

REV	Δ	DESCRIPTION	SHEET EFFECTED	DATE	DRAWN	CHECKED
A				04.03.2010	M. Reuben	S. Cohen

EMC Laboratory

WipAir X000

**Manufactured by
WaveIP LTD.**

EMC Test Report - Part 2

According to FCC Part 15.247

	Fonction/Title	Name	Signature	Date
Prepared by:	Technical Writer	M. Reuben		04.03.2010
Checked by:	Test Engineer	I. Arbitman		04.03.2010
Approved By:	EMC Lab. Manager	S. Cohen		08.04.2010

TABLE OF CONTENTS

Para. No.	Title	Page. No.
1.	ADMINISTRATIVE DATA	13
2.	GENERAL INFORMATION	13
3.	TEST SUMMARY AND SIGNATURES	14
4.	E.U.T INFORMATION	15
5.	RADIATED EMISSION	17
6.	MAXIMUM PEAK POWER DENSITY TEST	360
7.	CONDUCTED EMISSION TEST ACCORDING TO 15.207.15.107	375
8.	PHOTOGRAPHS	383

List of Figures

Figure No.	Title	Page. No.
Figure 4:	Radiated Emission Test Configuration	18
Test Results Plot No 1		37
Test Results Plot No 2		38
Test Results Plot No 3		39
Test Results Plot No 4		40
Test Results Plot No 5		41
Test Results Plot No 6		42
Test Results Plot No 7		43
Test Results Plot No 8		44
Test Results Plot No 9		45
Test Results Plot No 10		46
Test Results Plot No 11		47
Test Results Plot No 12		48
Test Results Plot No 13		49
Test Results Plot No 14		50
Test Results Plot No 15		51
Test Results Plot No 16		52
Test Results Plot No 17		53
Test Results Plot No 18		54
Test Results Plot No 19		55
Test Results Plot No 20		56
Test Results Plot No 21		57
Test Results Plot No 22		58
Test Results Plot No 23		59
Test Results Plot No 24		60
Test Results Plot No 25		61
Test Results Plot No 26		62

Test Results Plot No 27	63
Test Results Plot No 28	64
Test Results Plot No 29	65
Test Results Plot No 30	66
Test Results Plot No 31	67
Test Results Plot No 32	68
Test Results Plot No 33	69
Test Results Plot No 34	70
Test Results Plot No 35	71
Test Results Plot No 36	72
Test Results Plot No 37	73
Test Results Plot No 38	74
Test Results Plot No 39	75
Test Results Plot No 40	76
Test Results Plot No 41	77
Test Results Plot No 42	78
Test Results Plot No 43	79
Test Results Plot No 44	80
Test Results Plot No 45	81
Test Results Plot No 46	82
Test Results Plot No 47	83
Test Results Plot No 48	84
Test Results Plot No 49	85
Test Results Plot No 50	86
Test Results Plot No 51	87
Test Results Plot No 52	88
Test Results Plot No 53	89
Test Results Plot No 54	90
Test Results Plot No 55	91
Test Results Plot No 56	92
Test Results Plot No 57	93
Test Results Plot No 58	94
Test Results Plot No 59	95
Test Results Plot No 60	96
Test Results Plot No 61	97
Test Results Plot No 62	98
Test Results Plot No 63	99
Test Results Plot No 64	100
Test Results Plot No 65	101
Test Results Plot No 66	102
Test Results Plot No 67	103
Test Results Plot No 68	104
Test Results Plot No 69	105
Test Results Plot No 70	106
Test Results Plot No 71	107
Test Results Plot No 72	108
Test Results Plot No 73	109
Test Results Plot No 74	110
Test Results Plot No 75	111
Test Results Plot No 76	112

Test Results Plot No 77	113
Test Results Plot No 78	114
Test Results Plot No 79	115
Test Results Plot No 80	116
Test Results Plot No 81	117
Test Results Plot No 82	118
Test Results Plot No 83	119
Test Results Plot No 84	120
Test Results Plot No 85	121
Test Results Plot No 86	122
Test Results Plot No 87	123
Test Results Plot No 88	124
Test Results Plot No 89	125
Test Results Plot No 90	126
Test Results Plot No 91	127
Test Results Plot No 92	128
Test Results Plot No 93	129
Test Results Plot No 94	130
Test Results Plot No 95	131
Test Results Plot No 96	132
Test Results Plot No 97	133
Test Results Plot No 98	134
Test Results Plot No 99	135
Test Results Plot No 100	136
Test Results Plot No 101	137
Test Results Plot No 102	138
Test Results Plot No 103	139
Test Results Plot No 104	140
Test Results Plot No 105	141
Test Results Plot No 106	142
Test Results Plot No 107	143
Test Results Plot No 108	144
Test Results Plot No 109	145
Test Results Plot No 110	146
Test Results Plot No 111	147
Test Results Plot No 112	148
Test Results Plot No 113	149
Test Results Plot No 114	150
Test Results Plot No 115	151
Test Results Plot No 116	152
Test Results Plot No 117	153
Test Results Plot No 118	154
Test Results Plot No 119	155
Test Results Plot No 120	156
Test Results Plot No 121	157
Test Results Plot No 122	158
Test Results Plot No 123	159
Test Results Plot No 124	160
Test Results Plot No 125	161
Test Results Plot No 126	162

Test Results Plot No 127	163
Test Results Plot No 128	164
Test Results Plot No 129	165
Test Results Plot No 130	166
Test Results Plot No 131	167
Test Results Plot No 132	168
Test Results Plot No 133	169
Test Results Plot No 134	170
Test Results Plot No 135	171
Test Results Plot No 136	172
Test Results Plot No 137	173
Test Results Plot No 138	174
Test Results Plot No 139	175
Test Results Plot No 140	176
Test Results Plot No 141	177
Test Results Plot No 142	178
Test Results Plot No 143	179
Test Results Plot No 144	180
Test Results Plot No 145	181
Test Results Plot No 146	182
Test Results Plot No 147	183
Test Results Plot No 148	184
Plot Radiated Emission Out-of-Band/ 149	185
Plot Radiated Emission Out-of-Band/ 150	185
Plot Radiated Emission Out-of-Band/ 151	186
Plot Radiated Emission Out-of-Band/ 152	186
Plot Radiated Emission Out-of-Band/ 153	187
Plot Radiated Emission Out-of-Band/ 154	187
Plot Radiated Emission Out-of-Band/ 155	188
Plot Radiated Emission Out-of-Band/ 156	188
Plot Radiated Emission Out-of-Band/ 157	189
Plot Radiated Emission Out-of-Band/ 158	189
Plot Radiated Emission Out-of-Band/ 159	190
Plot Radiated Emission Out-of-Band/ 160	190
Plot Radiated Emission Out-of-Band/ 161	191
Plot Radiated Emission Out-of-Band/ 162	191
Plot Radiated Emission Out-of-Band/ 163	192
Plot Radiated Emission Out-of-Band/ 164	192
Plot Radiated Emission Out-of-Band/ 165	193
Plot Radiated Emission Out-of-Band/ 166	193
Plot Radiated Emission Out-of-Band/ 167	194
Plot Radiated Emission Out-of-Band/ 168	194
Plot Radiated Emission Out-of-Band/ 169	195
Plot Radiated Emission Out-of-Band/ 170	195
Plot Radiated Emission Out-of-Band/ 171	196
Plot Radiated Emission Out-of-Band/ 172	196
Plot Radiated Emission In-Band/ 173	197
Plot Radiated Emission In-Band/ 174	197
Plot Radiated Emission In-Band/ 175	198
Plot Radiated Emission In-Band/ 176	198

Plot Radiated Emission In-Band/ 177	199
Plot Radiated Emission In-Band/ 178	199
Plot Radiated Emission In-Band/ 179	200
Plot Radiated Emission In-Band/ 180	200
Plot Radiated Emission In-Band/ 181	201
Plot Radiated Emission In-Band/ 182	201
Plot Radiated Emission In-Band/ 183	202
Plot Radiated Emission In-Band/ 184	202
Test Results Plot No 185	203
Test Results Plot No 186	204
Test Results Plot No 187	205
Test Results Plot No 188	206
Test Results Plot No 189	207
Test Results Plot No 190	208
Test Results Plot No 191	209
Test Results Plot No 192	210
Test Results Plot No 193	211
Test Results Plot No 194	212
Test Results Plot No 195	213
Test Results Plot No 196	214
Test Results Plot No 197	215
Test Results Plot No 198	216
Test Results Plot No 199	217
Test Results Plot No 200	218
Test Results Plot No 201	219
Test Results Plot No 202	220
Test Results Plot No 203	221
Test Results Plot No 204	222
Test Results Plot No 205	223
Test Results Plot No 206	224
Test Results Plot No 207	225
Test Results Plot No 208	226
Test Results Plot No 209	227
Test Results Plot No 210	228
Test Results Plot No 211	229
Test Results Plot No 212	230
Test Results Plot No 213	231
Test Results Plot No 214	232
Test Results Plot No 215	233
Test Results Plot No 216	234
Test Results Plot No 217	235
Test Results Plot No 218	236
Test Results Plot No 219	237
Test Results Plot No 220	238
Test Results Plot No 221	239
Test Results Plot No 222	240
Test Results Plot No 223	241
Test Results Plot No 224	242
Test Results Plot No 225	243
Test Results Plot No 226	244

Test Results Plot No 227	245
Test Results Plot No 228	246
Test Results Plot No 229	247
Test Results Plot No 230	248
Test Results Plot No 231	249
Test Results Plot No 232	250
Test Results Plot No 233	251
Test Results Plot No 234	252
Test Results Plot No 235	253
Test Results Plot No 236	254
Test Results Plot No 237	255
Test Results Plot No 238	256
Test Results Plot No 239	257
Test Results Plot No 240	258
Test Results Plot No 241	259
Test Results Plot No 242	260
Test Results Plot No 243	261
Test Results Plot No 244	262
Test Results Plot No 245	263
Test Results Plot No 246	264
Test Results Plot No 247	265
Test Results Plot No 248	266
Test Results Plot No 249	267
Test Results Plot No 250	268
Test Results Plot No 251	269
Test Results Plot No 252	270
Test Results Plot No 253	271
Test Results Plot No 254	272
Test Results Plot No 255	273
Test Results Plot No 256	274
Test Results Plot No 257	275
Test Results Plot No 258	276
Test Results Plot No 259	277
Test Results Plot No 260	278
Test Results Plot No 261	279
Test Results Plot No 262	280
Test Results Plot No 263	281
Test Results Plot No 264	282
Test Results Plot No 265	283
Test Results Plot No 266	284
Test Results Plot No 267	285
Test Results Plot No 268	286
Test Results Plot No 269	287
Test Results Plot No 270	288
Test Results Plot No 271	289
Test Results Plot No 272	290
Test Results Plot No 273	291
Test Results Plot No 274	292
Test Results Plot No 275	293
Test Results Plot No 276	294

Test Results Plot No 277	295
Test Results Plot No 278	296
Test Results Plot No 279	297
Test Results Plot No 280	298
Test Results Plot No 281	299
Test Results Plot No 282	300
Test Results Plot No 283	301
Test Results Plot No 284	302
Test Results Plot No 285	303
Test Results Plot No 286	304
Test Results Plot No 287	305
Test Results Plot No 288	306
Test Results Plot No 289	307
Test Results Plot No 290	308
Test Results Plot No 291	309
Test Results Plot No 292	310
Test Results Plot No 293	311
Test Results Plot No 294	312
Test Results Plot No 295	313
Test Results Plot No 296	314
Test Results Plot No 297	315
Test Results Plot No 298	316
Test Results Plot No 299	317
Test Results Plot No 300	318
Test Results Plot No 301	319
Test Results Plot No 302	320
Test Results Plot No 303	321
Test Results Plot No 305	323
Test Results Plot No 306	324
Test Results Plot No 307	325
Test Results Plot No 308	326
Test Results Plot No 309	327
Test Results Plot No 310	328
Test Results Plot No 311	329
Test Results Plot No 312	330
Test Results Plot No 313	331
Test Results Plot No 314	332
Test Results Plot No 315	333
Test Results Plot No 316	334
Test Results Plot No 317	335
Test Results Plot No 318	336
Test Results Plot No 319	337
Test Results Plot No 320	338
Test Results Plot No 321	339
Test Results Plot No 322	340
Test Results Plot No 324	342
Test Results Plot No 325	343
Test Results Plot No 326	344
Test Results Plot No 327	345
Test Results Plot No 328	346

Test Results Plot No 329	347
Plot Radiated Emission/ 330	348
Plot Radiated Emission/ 331	348
Plot Radiated Emission/ 332	349
Plot Radiated Emission/ 333	349
Plot Radiated Emission/ 334	350
Plot Radiated Emission/ 335	350
Plot Radiated Emission/ 336	351
Plot Radiated Emission/ 337	351
Plot Radiated Emission/ 338	352
Plot Radiated Emission/ 339	352
Plot Radiated Emission/ 340	353
Plot Radiated Emission/ 341	353
Plot Radiated Emission/ 342	354
Plot Radiated Emission/ 343	354
Plot Radiated Emission/ 344	355
Plot Radiated Emission/ 345	355
Plot Radiated Emission/ 346	356
Plot Radiated Emission/ 347	356
Plot Radiated Emission/ 348	357
Plot Radiated Emission/ 349	357
Plot Radiated Emission/ 350	358
Plot Radiated Emission/ 351	358
Plot Radiated Emission/ 352	359
Plot Radiated Emission/ 353	359
Figure 5: Test Setup for Peak power density	361
Plot Peak Power Density/ 1	363
Plot Peak Power Density/ 2	363
Plot Peak Power Density/ 3	364
Plot Peak Power Density/ 4	364
Plot Peak Power Density/ 5	365
Plot Peak Power Density/ 6	365
Plot Peak Power Density/ 7	366
Plot Peak Power Density/ 8	366
Plot Peak Power Density/ 9	367
Plot Peak Power Density/ 10.....	367
Plot Peak Power Density/ 11.....	368
Plot Peak Power Density/ 12.....	368
Plot Peak Power Density/ 13.....	369
Plot Peak Power Density/ 14.....	369
Plot Peak Power Density/ 15.....	370
Plot Peak Power Density/ 16.....	370
Plot Peak Power Density/ 17.....	371
Plot Peak Power Density/ 18.....	371
Plot Peak Power Density/ 19.....	372
Plot Peak Power Density/ 20.....	372
Plot Peak Power Density/ 21.....	373
Plot Peak Power Density/ 22.....	373
Plot Peak Power Density/ 23.....	374
Plot Peak Power Density/ 24.....	374

Figure- 6: Conducted emission Test Configuration	376
Figure 7: Conducted emission Test setup	376
Photograph of Conducted Emission Test Setup/ 1	378
Test Results Plot No 1	379
Test Results Plot No 2	380
Test Results Plot No 3	381
Test Results Plot No 4	382
General Conducted Emission Setup	383

List of Tables

Table No.	Title	Page. No.
Table 31: Limits For 15.247		17
Table 32: Test Instrumentation and Equipment		18
Table 33: 5 MHz Bandwidth Test Result		19
Table 34: 10 MHz Bandwidth Test Result		19
Table 35: 20 MHz Bandwidth Test Result		19
Table 36: 40 MHz Bandwidth Test Result		19
Table 37: 5 MHz Bandwidth Test Result		19
Table 38: 10 MHz Bandwidth Test Result		19
Table 39: 20 MHz Bandwidth Test Result		20
Table 40: 40 MHz Bandwidth Test Result		20
Table 41: 5 MHz Bandwidth Test Result		20
Table 42: 10 MHz Bandwidth Test Result		20
Table 43: 20 MHz Bandwidth Test Result		20
Table 44: 40 MHz Bandwidth Test Result		20
Table 45: 5 MHz Bandwidth Test Result		20
Table 46: 10 MHz Bandwidth Test Result		21
Table 47: 20 MHz Bandwidth Test Result		21
Table 48: 40 MHz Bandwidth Test Result		21
Table 49: 5 MHz Bandwidth Test Result		21
Table 50: 10 MHz Bandwidth Test Result		21
Table 51: 20 MHz Bandwidth Test Result		22
Table 52: 40 MHz Bandwidth Test Result		22
Table 53: 5 MHz Bandwidth Test Result		22
Table 54: 10 MHz Bandwidth Test Result		22
Table 55: 20 MHz Bandwidth Test Result		22
Table 56: 40 MHz Bandwidth Test Result		22
Table 57: 5 MHz Bandwidth Test Result		23
Table 58: 10 MHz Bandwidth Test Result		23
Table 59: 20 MHz Bandwidth Test Result		23
Table 60: 40 MHz Bandwidth Test Result		23
Table 61: 5 MHz Bandwidth Test Result		23
Table 62: 10 MHz Bandwidth Test Result		24
Table 63: 20 MHz Bandwidth Test Result		24
Table 64: 40 MHz Bandwidth Test Result		24
Table 65: 5 MHz Bandwidth Test Result		24
Table 66: 10 MHz Bandwidth Test Result		24

Table 67: 20 MHz Bandwidth Test Result	25
Table 68: 40 MHz Bandwidth Test Result	25
Table 69: 5 MHz Bandwidth Test Result	25
Table 70: 10 MHz Bandwidth Test Result	25
Table 71: 20 MHz Bandwidth Test Result	25
Table 72: 40 MHz Bandwidth Test Result	25
Table 73: 5 MHz Bandwidth Test Result	26
Table 74: 10 MHz Bandwidth Test Result	26
Table 75: 20 MHz Bandwidth Test Result	26
Table 76: 40 MHz Bandwidth Test Result	26
Table 77: 5 MHz Bandwidth Test Result	26
Table 78: 10 MHz Bandwidth Test Result	26
Table 79: 20 MHz Bandwidth Test Result	26
Table 80: 40 MHz Bandwidth Test Result	27
Table 81: 5 MHz Bandwidth Test Result	27
Table 82: 10 MHz Bandwidth Test Result	27
Table 83: 20 MHz Bandwidth Test Result	27
Table 84: 40 MHz Bandwidth Test Result	27
Table 85: 5 MHz Bandwidth Test Result	27
Table 86: 10 MHz Bandwidth Test Result	28
Table 87: 20 MHz Bandwidth Test Result	28
Table 88: 40 MHz Bandwidth Test Result	28
Table 89: 5 MHz Bandwidth Test Result	28
Table 90: 10 MHz Bandwidth Test Result	28
Table 91: 20 MHz Bandwidth Test Result	29
Table 92: 40 MHz Bandwidth Test Result	29
Table 93: 5 MHz Bandwidth Test Result	29
Table 94: 10 MHz Bandwidth Test Result	29
Table 95: 20 MHz Bandwidth Test Result	29
Table 96: 40 MHz Bandwidth Test Result	29
Table 97: 5 MHz Bandwidth Test Result	30
Table 98: 10 MHz Bandwidth Test Result	30
Table 99: 20 MHz Bandwidth Test Result	30
Table 100: 40 MHz Bandwidth Test Result.....	30
Table 101: 5 MHz Bandwidth Test Result	31
Table 102: 10 MHz Bandwidth Test Result.....	31
Table 103: 20 MHz Bandwidth Test Result.....	31
Table 104: 40 MHz Bandwidth Test Result.....	31
Table 105: 5 MHz Bandwidth Test Result	31
Table 106: 10 MHz Bandwidth Test Result.....	32
Table 107: 20 MHz Bandwidth Test Result.....	32
Table 108: 40 MHz Bandwidth Test Result.....	32
Table 109: Limits for Fundamental.....	360
Table 110: Test Instrumentation and Equipment	360
Table 111: 5 MHz Peak Power Density Test Result.....	362
Table 112: 10 MHz Peak Power Density Test Result.....	362
Table 113: 20 MHz Peak Power Density Test Result.....	362
Table 114: 40 MHz Peak Power Density Test Result.....	362
Table 115: Limits For 15.207 Class B equipment.....	375
Table 116: Test Instrumentation and Equipment	375

Table 117: Test results	377
-------------------------------	-----

1. ADMINISTRATIVE DATA

1.1. Scope

This document describes the measurement procedures and tests for Radiated and conducted emission testing of the WipAir X000 manufactured by WaveIP Ltd.

2. GENERAL INFORMATION

2.1. Description of equipment Under Test

Equipment Under Test	WipAir 6000/3000
FCCID	QQ2-WA605X
Manufacturer	WaveIP Ltd.
Serial Numbers	0050C26FB1CA
Mode of Operation	Tranceiver MODE
Receiver operating frequency	5730 MHz – 5845 MHz
Year of Manufacture	2010

2.2. Applicant Information:

Applicant	WaveIP Ltd
Applicant Address	Teradion Indistrial park, Misgav 20179, Israel
Telephone	+972-4-9027000
FAX	+972-4-9990324
The testing was observed by	AMIT ARAZI

2.3. Test Performance:

Dates of testing	February 2010
Test Laboratory Location	Elbit Systems Land and C ⁴ I - Tadiran Ltd., EMC LAB, Hashoftim 26 Holon 58102 ISRAEL Tel: 972-3-5574476 Fax: 972-3-5575320
Applicable EMC Specification	Federal Communication Commission (FCC), FCC Part 15: Radio Frequency Devices, Sections 15.109, 15.209, 15.207 & 15.247

3. TEST SUMMARY AND SIGNATURES.

Elbit Systems Land and C⁴I - Tadiran Ltd., EMC Laboratory has completed testing of E.U.T in accordance with the requirements of the FCC Part 15 Regulations for Class B equipment.

The E.U.T was found to comply with the requirements of the FCC Part 15 Regulations given below

Test	Test Description	Section	PASS/FAIL
1	6 dB Bandwidth	15.247 (a)(2), RSS-210 section A8.2(a)	PASS
2	Peak Output Power	15.247 (b)(3), RSS-210 section A8.4(4)	PASS*
3	Conducted Spurious Emissions	15.247 (d), RSS-210 section A8.5	PASS
4	Radiation Spurious Emission	15.247 (d), RSS-210 section A8.5	PASS
5	Peak Power Density	15.247 (e), RSS-210 section A8.2(b)	PASS
6	Conducted Emission	15.247 (a), RSS-210 section 7.2.2	PASS
7	RF Exposure	15.247 (i), RSS-General section 5.5	PASS
8	Antenna Requirement	15.203, RSS-210 section 7.1.4	PASS

*: All power measurements were performed under the nominal power voltage as all RF circuits are powered from voltage regulators in RF_schematics_18826.pdf on page 8.

3.1. Test performed by:

I. Arbitman 

3.2. Test Report prepared by:

M. Reuben 

3.3. Test Report Approved by:

Mr. Samuel Cohen EMC Lab. Manager



4. E.U.T INFORMATION

4.1. E.U.T description

WipAir_X000 is WaveIP's wireless point-to-point and point to multi point broadband wireless communication system. The system uses dual or single radio channels, (defined by software) in the 5GHz bands, utilizing 5,10,20,40 MHz channels, OFDM modulation, and TDD Spectrum Management.

The total conducted output power is up to 1Watt (sum of both channels), with dynamic range of 45 dB.

WipAir6000 uses two RF ports, hence WipAir 6000 was tested.

Antennas used during tests:

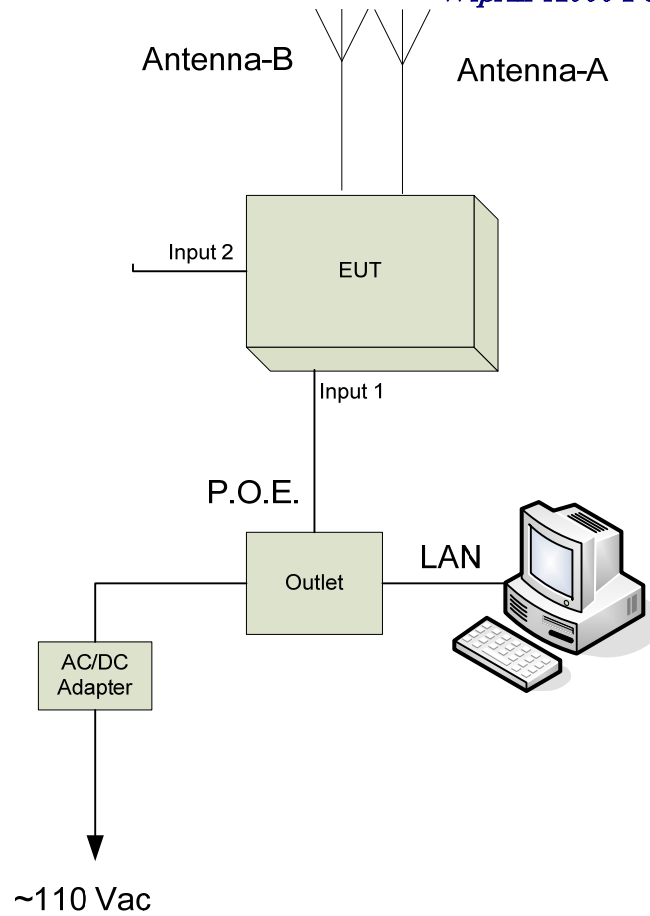
Type	MFG	MODLE	GAIN
Flat panel, dual polarization, integrated	MTI	MT-485048/CVH/A	23
Dish dual polarization, detached	KBT	DP-5X-285D-005	28.5

EUT Technical characteristics

Transmitter characteristics		Notes
Assigned frequency	5725-5850MHZ	
Operating Frequency range	5730-5845MHZ	5MHz Channel
	5735-5840MHZ	10MHz Channel
	5735-5840MHZ	20MHz Channel
	5745-5830MHZ	40MHz Channel
Antenna Ports	TNC	For detached option only
Modulations type	QPSK, 4QAM, 16QAM, 64QAM	
Multiplexing type	OFDM	
Modulating Test Signal	PRBS	

4.2. E.U.T Test Configuration

E.UT. test configuration is shown in figure bellow



4.3. E.U.T Mode of Operation description
5730 MHz – 5845 MHz TRANCEIVER

5. RADIATED EMISSION

Equipment Under Test	WipAir 6000/3000
Test Method	FCC New Guidance on Measurements for DTS in section 15.247(d) section 8.5.
Date	02.03.2010
Relative Humidity	40%
Ambient Temperature	25 ⁰ C
Air Pressure	1010 hPa
Test Setup	Figure 1

Testing Engineer: I. Arbitman



Date 02.03.2010

5.1. Test Results Summary & Conclusions

The E.U.T was found in compliance with 15.247 (d) requirements

5.2. Limits of Radiated Interference Field Strength according 15.247

The test unit shall meet the limits of Table 31.

Table 31: Limits For 15.247

Frequency, MHz	Field strength at 3 m within restricted bands, dB (µV/m)*			Attenuation of field strength of spurious versus carrier outside restricted bands, dBc***
	Peak	Quasi Peak	Average	
0.009 – 0.090	148.5	NA	128.5 – 108.5	20.0
0.09 – 0.110	NA	108.5 – 106.8**	NA	
0.110 – 0.490	126.8 – 113.8	NA	106.8 – 93.8	
0.490 – 1.705	NA	73.8 – 63.0**		
1.705 – 30.0		69.5		
30 – 88		40.0		
88 - 216		43.5		
216 – 960		46.0		
960 - 1000		54.0		
1000 – 10 th harmonic	74.0	NA		

*: The limit for 3 m test distance was calculated using the inverse square distance extrapolation factor as follows:

$$\text{Lim}_{S_2} = \text{Lim}_{S_1} + 40 \log (S_1/S_2),$$

Where S_1 and S_2 are the standard defined and test distance respectively (in meters)

**.: The limit decreases linearly with the logarithm of frequency.

***.: The field strength limits applied from the lowest radio frequency generated in the device, without going below 9 kHz up to the tenth harmonic of the highest fundamental frequency.

5.3. Test Instrumentation and Equipment

Table 32: Test Instrumentation and Equipment

Item	Model	Manufacturer	Next Date Calibration
Spectrum Analyzer	E7405A	Agilent	27.05.2010
Broadband Antenna	BTA-L	FRANKONIA	28.07.2010
Loop Antenna	HFH2-Z2	R&S	28.04.2011
Double Ridge Guide Antenna(1-18GHz)	DRG-118/A	ARA	09.12.2010
Double Ridge Guide Antenna(18-40GHz)	DRG-1840/A	ARA	09.12.2010
Low Noise Amplifier (0-1GHz)	AM-1300-N	MITEQ	06.01.2011
Low Noise Amplifier (1-2GHz)	AMM003N	Avantek	12.06.2010
Low Noise Amplifier (2-18GHz)	PE 2	Planar	12.08.2010
Low Noise Amplifier (18-26GHz)	PTB-33-18G-26G	Planar	12.06.2010
Low Noise Amplifier (26-40GHz)	SLKa-35-4	Spacek	05.07.2011
Preselected RF section 26.5-40GHz	11974A	HP	27.05.2010
Preselect or Power supply	11974-60028	HP	27.05.2010

5.4. Test Procedure

Preliminary Test Procedure

- 5.4.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a chamber shielded
- 5.4.2. The E.U.T was set 3 meters away from the receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 5.4.3. The Antenna height varied from one meter to 1.8 meters above the ground and the table was rotated 360°to determine the maximum value of the field strength
- 5.4.4. The antenna was set both horizontal and vertical polarization.

Final Test Procedure

- 5.4.5. The EUT was tested at open area for each suspected emission,
- 5.4.6. The test procedure was performed according paragraph d. but the Antenna height varied from one meter to four meters above the ground

5.5. Final Test Setup

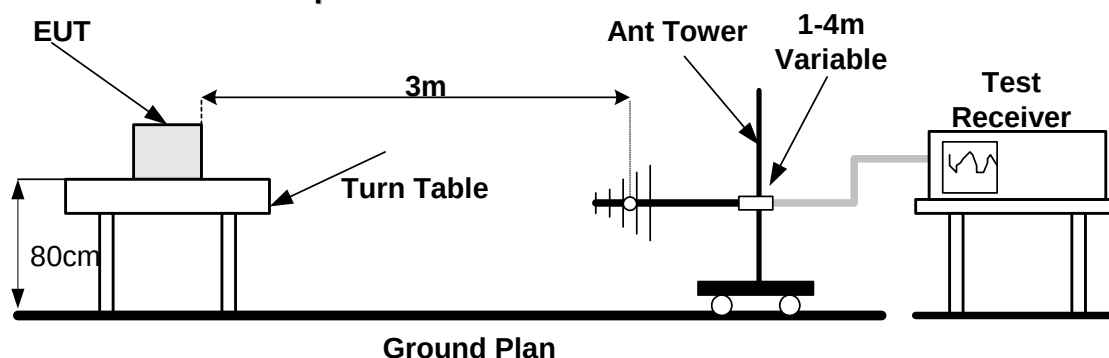


Figure 4: Radiated Emission Test Configuration

5.6. Test Results for Flat Antenna

5.6.1. Flat_23dBi_9K-150K

Table 33: 5 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5730	1	1	Pass
Medium - 5790		2	Pass
High - 5845		3	Pass

Table 34: 10 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	1	4	Pass
Medium - 5790		5	Pass
High - 5840		6	Pass

Table 35: 20 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	1	7	Pass
Medium - 5790		8	Pass
High - 5840		9	Pass

Table 36: 40 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5745	1	10	Pass
Medium - 5790		11	Pass
High - 5830		12	Pass

5.6.2. Flat_23dBi_150 kHz-30MHz

Table 37: 5 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Ambient noise in chamber	9	13	Pass
Low - 5730		14	Pass
Medium - 5790		15	Pass
High - 5845		16	Pass

Table 38: 10 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	9	17	Pass
Medium - 5790		18	Pass
High - 5840		19	Pass

Table 39: 20 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	9	20	Pass
Medium - 5790		21	Pass
High - 5840		22	Pass

Table 40: 40 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5745	9	23	Pass
Medium - 5790		24	Pass
High - 5830		25	Pass

5.6.3. Flat_23dBi_30 MHz-1 GHz

Table 41: 5 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5730	120	26	Pass
Medium - 5790		27	Pass
High - 5845		28	Pass

Table 42: 10 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	120	29	Pass
Medium - 5790		30	Pass
High - 5840		31	Pass

Table 43: 20 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	120	32	Pass
Medium - 5790		33	Pass
High - 5840		34	Pass

Table 44: 40 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5745	120	35	Pass
Medium - 5790		36	Pass
High - 5830		37	Pass

5.6.4. Flat_23dBi_Antenna_1-2.9GHz

Table 45: 5 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5730 - Average	1000	38	Pass
Low – 5730 - Peak		39	Pass
Medium – 5790 - Average		40	Pass
Medium – 5790 - Peak		41	Pass
High – 5845 - Average		42	Pass
High – 5845 - Peak		43	Pass

Table 46: 10 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	1000	44	Pass
Low – 5735- Peak		45	Pass
Medium – 5790 - Average		46	Pass
Medium – 5790 - Peak		47	Pass
High – 5840 - Average		48	Pass
High – 5840 - Peak		49	Pass

Table 47: 20 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	1000	50	Pass
Low – 5735 - Peak		51	Pass
Medium – 5790 - Average		52	Pass
Medium – 5790 - Peak		53	Pass
High – 5840 - Average		54	Pass
High – 5840 - Peak		55	Pass

Table 48: 40 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5745 - Average	1000	56	Pass
Low – 5745 - Peak		57	Pass
Medium – 5790 - Average		58	Pass
Medium – 5790 - Peak		59	Pass
High – 5830 - Average		60	Pass
High – 5830 - Peak		61	Pass
High – 5845 – Average - Standby		62	Pass
High – 5845 – Peak - Standby		63	Pass

5.6.5. Flat_23dBi_Antenna_2.9-5.46 GHz

Table 49: 5 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5730 - Average	Using N filter	1000	64	Pass
Low – 5730 - Peak			65	Pass
Medium – 5790 - Average			66	Pass
Medium – 5790 - Peak			67	Pass
High – 5845 - Average			68	Pass
High – 5845 - Peak			69	Pass

Table 50: 10 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	Using N filter	1000	70	Pass
Low – 5735- Peak			71	Pass
Medium – 5790 - Average			72	Pass
Medium – 5790 - Peak			73	Pass
High – 5840 - Average			74	Pass
High – 5840 - Peak			75	Pass

Table 51: 20 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	Using N filter	1000	76	Pass
Low – 5735 - Peak			77	Pass
Medium – 5790 - Average			78	Pass
Medium – 5790 - Peak			79	Pass
High – 5840 - Average			80	Pass
High – 5840 - Peak			81	Pass

Table 52: 40 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5745 - Average	Using N filter	1000	82	Pass
Low – 5745 - Peak			83	Pass
Medium – 5790 - Average			84	Pass
Medium – 5790 - Peak			85	Pass
High – 5830 - Average			86	Pass
High – 5830 - Peak			87	Pass
Standby mode			88	Pass

5.6.6. Flat_23dBi_Antenna_5.460 - 7.250 GHz

Table 53: 5 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5730	102.12	100	89	Pass
Medium - 5790	102.52		90	Pass
High - 5845	101.24		91	Pass

Table 54: 10 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	98.5	100	92	Pass
Medium - 5790	99.7		93	Pass
High - 5840	98.8		94	Pass

Table 55: 20 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	95.56	100	95	Pass
Medium - 5790	95.87		96	Pass
High - 5840	94.34		97	Pass

Table 56: 40 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5745	94.01	100	98	Pass
Medium - 5790	94.73		99	Pass
High - 5830	93.83		100	Pass

5.6.7. Flat_23dBi_Antenna_7.250 GHz – 18 GHz

Table 57: 5 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5730 - Average	Using LPF	1000	101	Pass
Low – 5730 - Peak			102	Pass
Medium – 5790 - Average			103	Pass
Medium – 5790 - Peak			104	Pass
High – 5845 - Average			105	Pass
High – 5845 - Peak			106	Pass

Table 58: 10 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	Using LPF	1000	107	Pass
Low – 5735 - Peak			108	Pass
Medium – 5790 - Average			109	Pass
Medium – 5790 - Peak			110	Pass
High – 5840 - Average			111	Pass
High – 5840 - Peak			112	Pass

Table 59: 20 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	Using LPF	1000	113	Pass
Low – 5735 - Peak			114	Pass
Medium – 5790 - Average			115	Pass
Medium – 5790 - Peak			116	Pass
High – 5840 - Average			117	Pass
High – 5840 - Peak			118	Pass

Table 60: 40 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5745 - Average	Using LPF	1000	119	Pass
Low – 5745 - Peak			120	Pass
Medium – 5790 - Average			121	Pass
Medium – 5790 - Peak			122	Pass
High – 5830 - Average			123	Pass
High – 5830 - Peak			124	Pass

5.6.8. Flat_23dBi_18 - 26.5 GHz

Table 61: 5 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5730 - Average		1000	125	Pass
Low – 5730 - Peak			126	Pass
Medium – 5790 - Average			127	Pass
Medium – 5790 - Peak			128	Pass
High – 5845 - Average			129	Pass
High – 5845 - Peak			130	Pass

Table 62: 10 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average		1000	131	Pass
Low – 5735- Peak			132	Pass
Medium – 5790 - Average			133	Pass
Medium – 5790 - Peak			134	Pass
High – 5840 - Average			135	Pass
High – 5840 - Peak			136	Pass

Table 63: 20 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average		1000	137	Pass
Low – 5735 - Peak			138	Pass
Medium – 5790 - Average			139	Pass
Medium – 5790 - Peak			140	Pass
High – 5840 - Average			141	Pass
High – 5840 - Peak			142	Pass

Table 64: 40 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5745 - Average		1000	143	Pass
Low – 5745 - Peak			144	Pass
Medium – 5790 - Average			145	Pass
Medium – 5790 - Peak			146	Pass
High – 5830 - Average			147	Pass
High – 5830 - Peak			148	Pass

5.6.9. Flat_23dBi_Antenna 26.5 – 40 GHz

5.6.9.1. Out-of-Band

Table 65: 5 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5730 - Average		10	149	Pass
Low – 5730 - Peak		3	150	Pass
Medium – 5790 - Average		10	151	Pass
Medium – 5790 - Peak		3	152	Pass
High – 5845 - Average		10	153	Pass
High – 5845 - Peak		3	154	Pass

Table 66: 10 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average		10	155	Pass
Low – 5735- Peak		3	156	Pass
Medium – 5790 - Average		10	157	Pass
Medium – 5790 - Peak		3	158	Pass
High – 5840 - Average		10	159	Pass
High – 5840 - Peak		3	160	Pass

Table 67: 20 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average		10	161-	Pass
Low – 5735 - Peak		3	162	Pass
Medium – 5790 - Average		10	163	Pass
Medium – 5790 - Peak		3	164	Pass
High – 5840 - Average		10	165	Pass
High – 5840 - Peak		3	166	Pass

Table 68: 40 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5745 - Average		10	167	Pass
Low – 5745 - Peak		3	168	Pass
Medium – 5790 - Average		10	169	Pass
Medium – 5790 - Peak		3	170	Pass
High – 5830 - Average		10	171	Pass
High – 5830 - Peak		3	172	Pass

5.6.9.2. In-Band

Table 69: 5 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5730	102.12	100	173	Pass
Medium - 5790	102.52		174	Pass
High - 5845	101.24		175	Pass

Table 70: 10 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	10-2.12	100	176	Pass
Medium - 5790	99.7		177	Pass
High - 5840	98.8		178	Pass

Table 71: 20 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	95.56	100	179	Pass
Medium - 5790	95.87		180	Pass
High - 5840	94.34		181	Pass

Table 72: 40 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5745	95.06	100	182	Pass
Medium - 5790	94.73		183	Pass
High - 5830	98.83		184	Pass

5.7. Test Results for Dish Antenna

5.7.1. 9 kHz - 150 kHz – Dish Antenna

Table 73: 5 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5730	1	185	Pass
Medium - 5790		186	Pass
High - 5845		187	Pass

Table 74: 10 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	1	188	Pass
Medium - 5790		189	Pass
High - 5840		190	Pass

Table 75: 20 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	1	191	Pass
Medium - 5790		192	Pass
High - 5840		193	Pass

Table 76: 40 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5745	1	194	Pass
Medium - 5790		195	Pass
High - 5830		196	Pass

5.7.2. 150 kHz – 30 MHz – Dish Antenna

Table 77: 5 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5730	9	197	Pass
Medium - 5790		198	Pass
High - 5845		199	Pass

Table 78: 10 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	9	200	Pass
Medium - 5790		201	Pass
High - 5840		202	Pass

Table 79: 20 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	9	203	Pass
Medium - 5790		204	Pass
High - 5840		205	Pass

Table 80: 40 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5745	9	206	Pass
Medium - 5790		207	Pass
High - 5830		208	Pass

5.7.3. 30 MHz – 1 GHz – Dish Antenna

Table 81: 5 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5730	Quasi peak	120	209	Pass
Medium - 5790			210	Pass
High - 5845			211	Pass

Table 82: 10 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	Quasi peak	120	212	Pass
Medium - 5790			213	Pass
High - 5840			214	Pass

Table 83: 20 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	Quasi peak	120	215	Pass
Medium - 5790			216	Pass
High - 5840			217	Pass

Table 84: 40 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5745	Quasi peak	120	218	Pass
Medium - 5790			219	Pass
High - 5830			220	Pass

5.7.4. 1 GHz – 2.9 GHz - Dish Antenna

Table 85: 5 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5730 - Average	1000	221	Pass
Low – 5730 - Peak		222	Pass
Medium – 5790 - Average		223	Pass
Medium – 5790 - Peak		224	Pass
High – 5845 - Average		225	Pass
High – 5845 - Peak		226	Pass

Table 86: 10 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	1000	227	Pass
Low – 5735- Peak		228	Pass
Medium – 5790 - Average		229	Pass
Medium – 5790 - Peak		230	Pass
High – 5840 - Average		231	Pass
High – 5840 - Peak		232	Pass

Table 87: 20 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	1000	233	Pass
Low – 5735 - Peak		234	Pass
Medium – 5790 - Average		235	Pass
Medium – 5790 - Peak		236	Pass
High – 5840 - Average		237	Pass
High – 5840 - Peak		238	Pass

Table 88: 40 MHz Bandwidth Test Result

Frequency (MHz)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5745 - Average	1000	239	Pass
Low – 5745 - Peak		240	Pass
Medium – 5790 - Average		241	Pass
Medium – 5790 - Peak		242	Pass
High – 5830 - Average		243	Pass
High – 5830 - Peak		244	Pass

5.7.5. 2.9 GHz – 5.460 Dish Antenna

Table 89: 5 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5730 - Average	Using N filter	1000	245	Pass
Low – 5730 - Peak			246	Pass
Medium – 5790 - Average			247	Pass
Medium – 5790 - Peak			248	Pass
High – 5845 - Average			249	Pass
High – 5845 - Peak			250	Pass

Table 90: 10 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	Using N filter	1000	251	Pass
Low – 5735- Peak			252	Pass
Medium – 5790 - Average			253	Pass
Medium – 5790 - Peak			254	Pass
High – 5840 - Average			255	Pass
High – 5840 - Peak			256	Pass

Table 91: 20 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	Using N filter	1000	257	Pass
Low – 5735 - Peak			258	Pass
Medium – 5790 - Average			259	Pass
Medium – 5790 - Peak			260	Pass
High – 5840 - Average			261	Pass
High – 5840 - Peak			262	Pass

Table 92: 40 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5745 - Average	Using N filter	1000	263	Pass
Low – 5745 - Peak			264	Pass
Medium – 5790 - Average			265	Pass
Medium – 5790 - Peak			266	Pass
High – 5830 - Average			267	Pass
High – 5830 - Peak			268	Pass

5.7.6. 5.460 GHz – 7.25 GHz - Dish Antenna – Not restricted band

Table 93: 5 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5730	106.89	100	269	Pass
Medium - 5790	107.91		270	Pass
High - 5845	106.43		271	Pass

Table 94: 10 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	104.39	100	272	Pass
Medium - 5790	105.48		273	Pass
High - 5840	104.07		274	Pass

Table 95: 20 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5735	103.10	100	275	Pass
Medium - 5790	102.45		276	Pass
High - 5840	100.79		277	Pass

Table 96: 40 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 5745	99.75	100	278	Pass
Medium - 5790	99.34		279	Pass
High - 5830	97.81		280	Pass

5.7.7. 7.25 - 18GHz - Dish Antenna

Table 97: 5 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5730 - Average	Using LPF	1000	281	Pass
Low – 5730 - Peak			282	Pass
Medium – 5790 - Average			283	Pass
Medium – 5790 - Peak			284	Pass
High – 5845 - Average			285	Pass
High – 5845 - Peak			286	Pass

Table 98: 10 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	Using LPF	1000	287	Pass
Low – 5735- Peak			288	Pass
Medium – 5790 - Average			289	Pass
Medium – 5790 - Peak			290	Pass
High – 5840 - Average			291	Pass
High – 5840 - Peak			292	Pass

Table 99: 20 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	Using LPF	1000	293	Pass
Low – 5735 - Peak			294	Pass
Medium – 5790 - Average			295	Pass
Medium – 5790 - Peak			296	Pass
High – 5840 - Average			297	Pass
High – 5840 - Peak			298	Pass

Table 100: 40 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5745 - Average	Using LPF	1000	299	Pass
Low – 5745 - Peak			300	Pass
Medium – 5790 - Average			301	Pass
Medium – 5790 - Peak			302	Pass
High – 5830 - Average			303	Pass
High – 5830 - Peak			304	Pass
Standby mode 2-18 GHz			305	Pass

5.7.8. 18 GHz – 26.5 GHz - Dish Antenna

Table 101: 5 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5730 - Average		1000	306	Pass
Low – 5730 - Peak			307	Pass
Medium – 5790 - Average			308	Pass
Medium – 5790 - Peak			309	Pass
High – 5845 - Average			310	Pass
High – 5845 - Peak			311	Pass

Table 102: 10 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average		1000	312	Pass
Low – 5735- Peak			313	Pass
Medium – 5790 - Average			314	Pass
Medium – 5790 - Peak			315	Pass
High – 5840 - Average			316	Pass
High – 5840 - Peak			317	Pass

Table 103: 20 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average		1000	318	Pass
Low – 5735 - Peak			319	Pass
Medium – 5790 - Average			320	Pass
Medium – 5790 - Peak			321	Pass
High – 5840 - Average			322	Pass
High – 5840 - Peak			323	Pass

Table 104: 40 MHz Bandwidth Test Result

Frequency (MHz)	Remarks	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5745 - Average		1000	324	Pass
Low – 5745 - Peak			325	Pass
Medium – 5790 - Average			326	Pass
Medium – 5790 - Peak			327	Pass
High – 5830 - Average			328	Pass
High – 5830 - Peak			329	Pass

5.7.9. 26.5 GHz – 40 GHz - Dish Antenna

Table 105: 5 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5730 - Average	47.08	10	330	Pass
Low – 5730 - Peak	61.90	3	331	Pass
Medium – 5790 - Average	47.23	10	332	Pass
Medium – 5790 - Peak	58.21	3	333	Pass
High – 5845 - Average	47.55	10	334	Pass
High – 5845 - Peak	58.08	3	335	Pass

Table 106: 10 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	47.24	10	336	Pass
Low – 5735- Peak	57.89	3	337	Pass
Medium – 5790 - Average	47.03	10	338	Pass
Medium – 5790 - Peak	56.57	3	339	Pass
High – 5840 - Average	47.34	10	340	Pass
High – 5840 - Peak	58.08	3	341	Pass

Table 107: 20 MHz Bandwidth Test Result

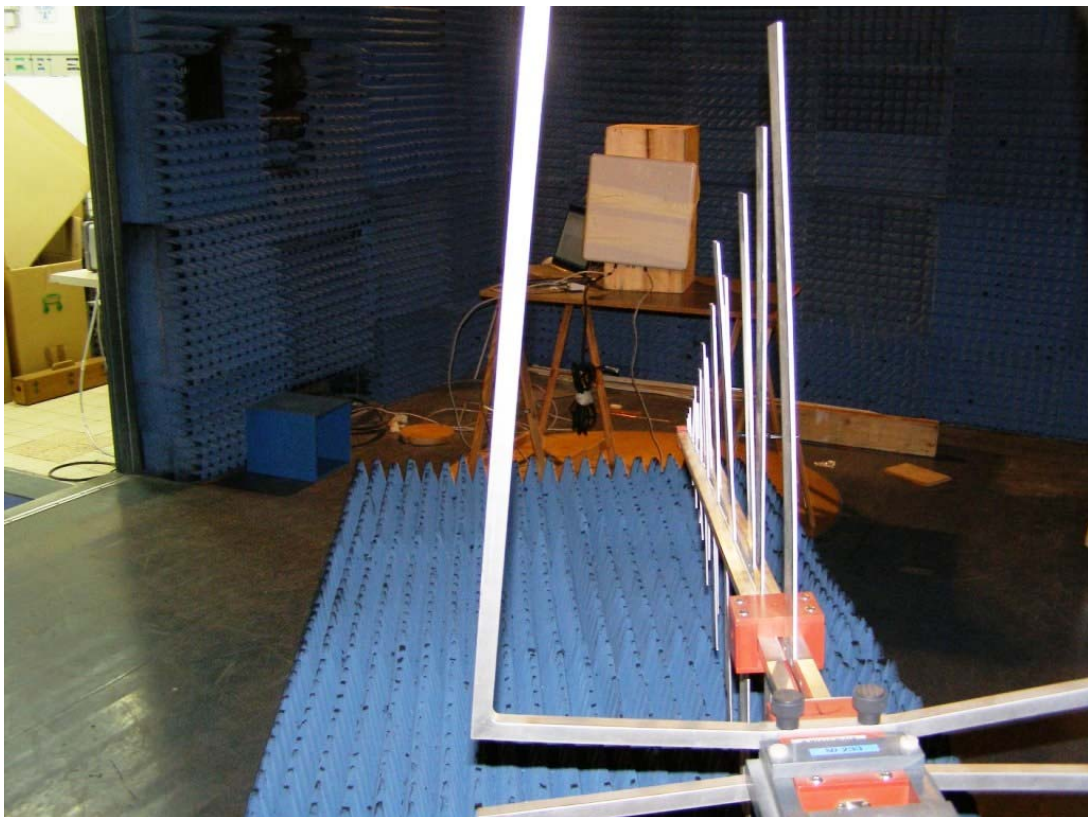
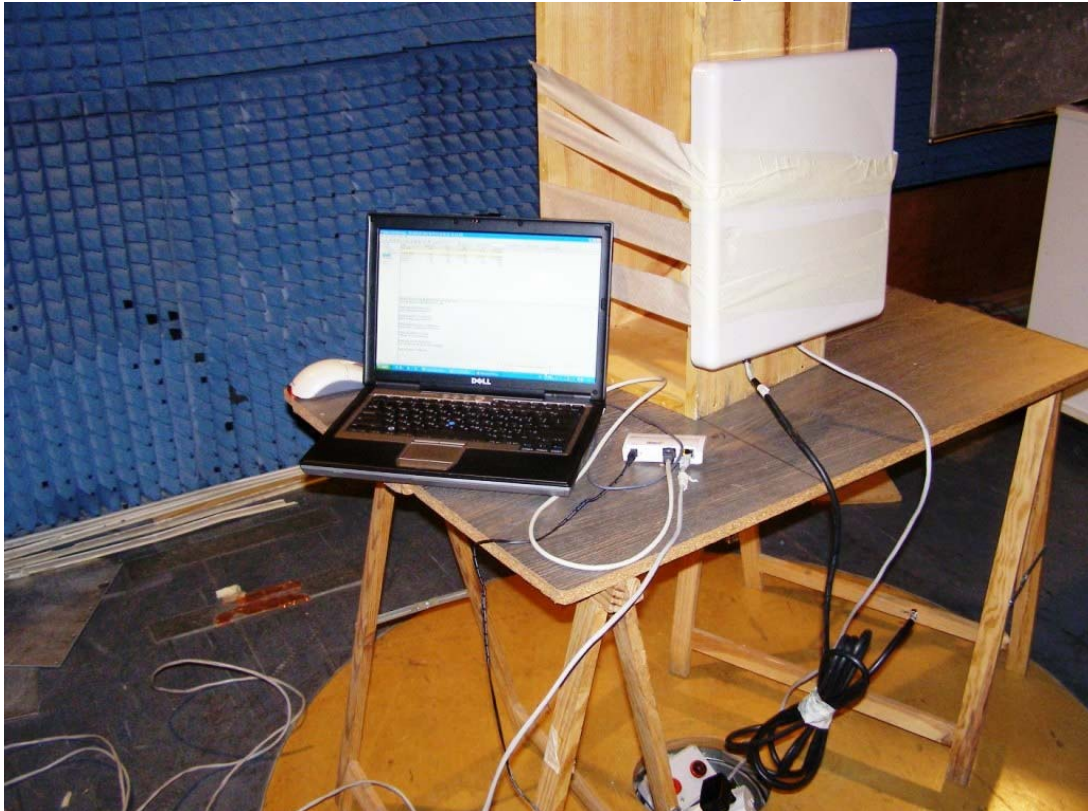
Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5735 - Average	47.49	10	342-	Pass
Low – 5735 - Peak	57.93	3	343	Pass
Medium – 5790 - Average	46.78	10	344	Pass
Medium – 5790 - Peak	57.73	3	345	Pass
High – 5840 - Average	47.00	10	346	Pass
High – 5840 - Peak	57.73	3	347	Pass

Table 108: 40 MHz Bandwidth Test Result

Frequency (MHz)	Limit (dBμV)	Res. BW (kHz)	Plot No.	PASS/FAIL
Low – 5745 - Average	47.00	10	348	Pass
Low – 5745 - Peak	58.38	3	349	Pass
Medium – 5790 - Average	46.91	10	350	Pass
Medium – 5790 - Peak	57.60	3	351	Pass
High – 5830 - Average	46.76	10	352	Pass
High – 5830 - Peak	57.60	3	353	Pass

5.8. **Photographs of Radiated Emission Test Setup**









5.9. 23dBi_Flat_Antenna – Test Data

5.9.1. Flat_23dBi_9K-150K

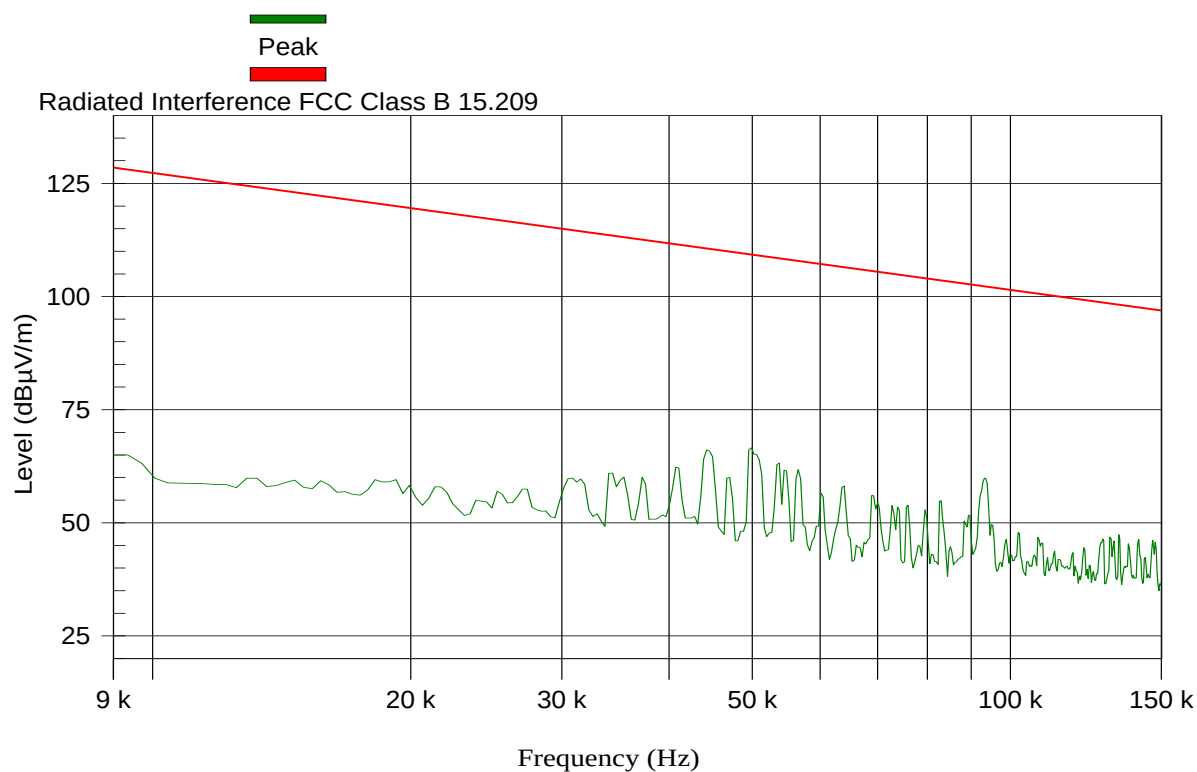
Test Results Plot No 1

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:31:45

Flat_23dBi; Vertical; LOW_5.730 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

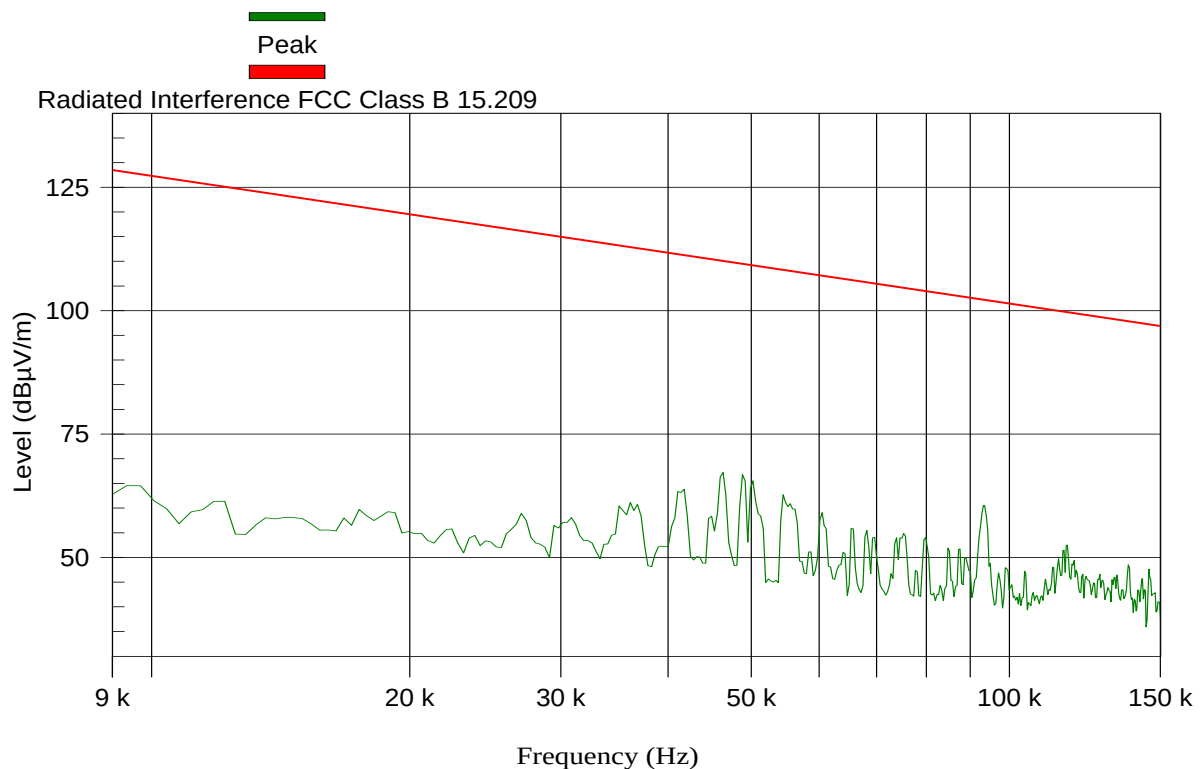
Test Results Plot No 2

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:33:42

Flat_23dBi; Vertical; MID_5.790 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

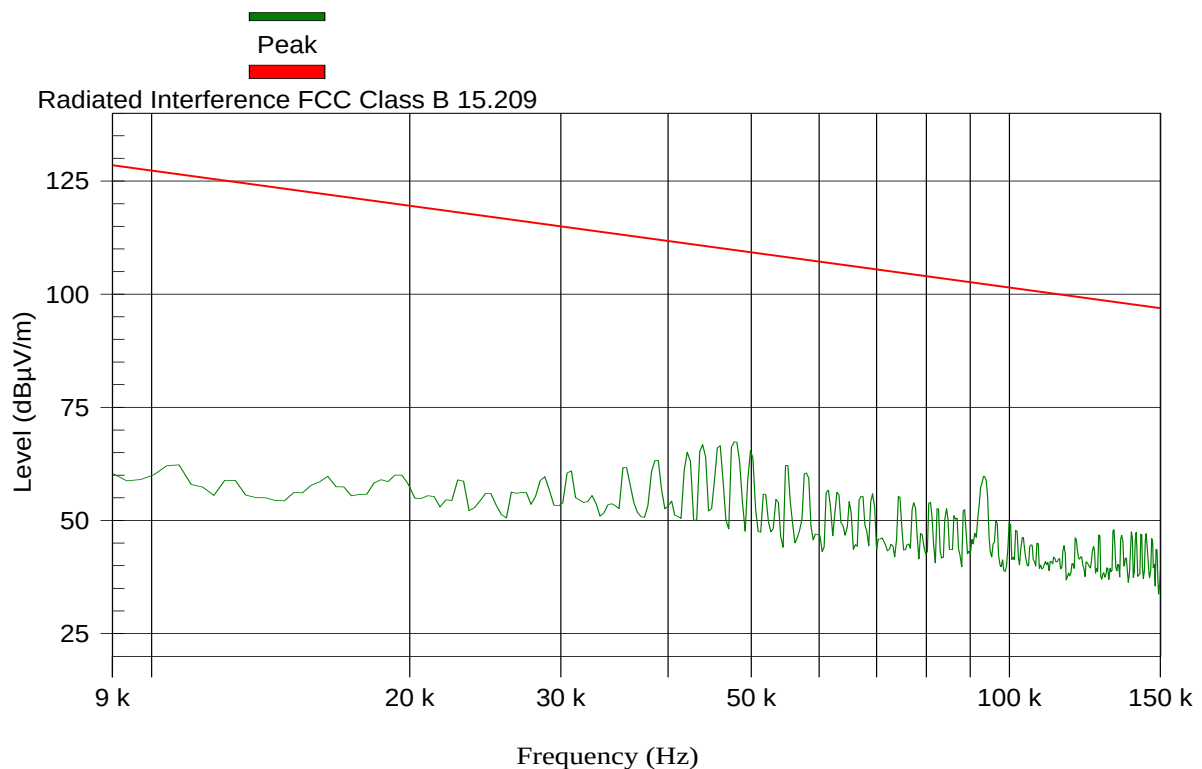
Test Results Plot No 3

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:34:34

Flat_23dBi; Vertical; HIGH_5.845GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

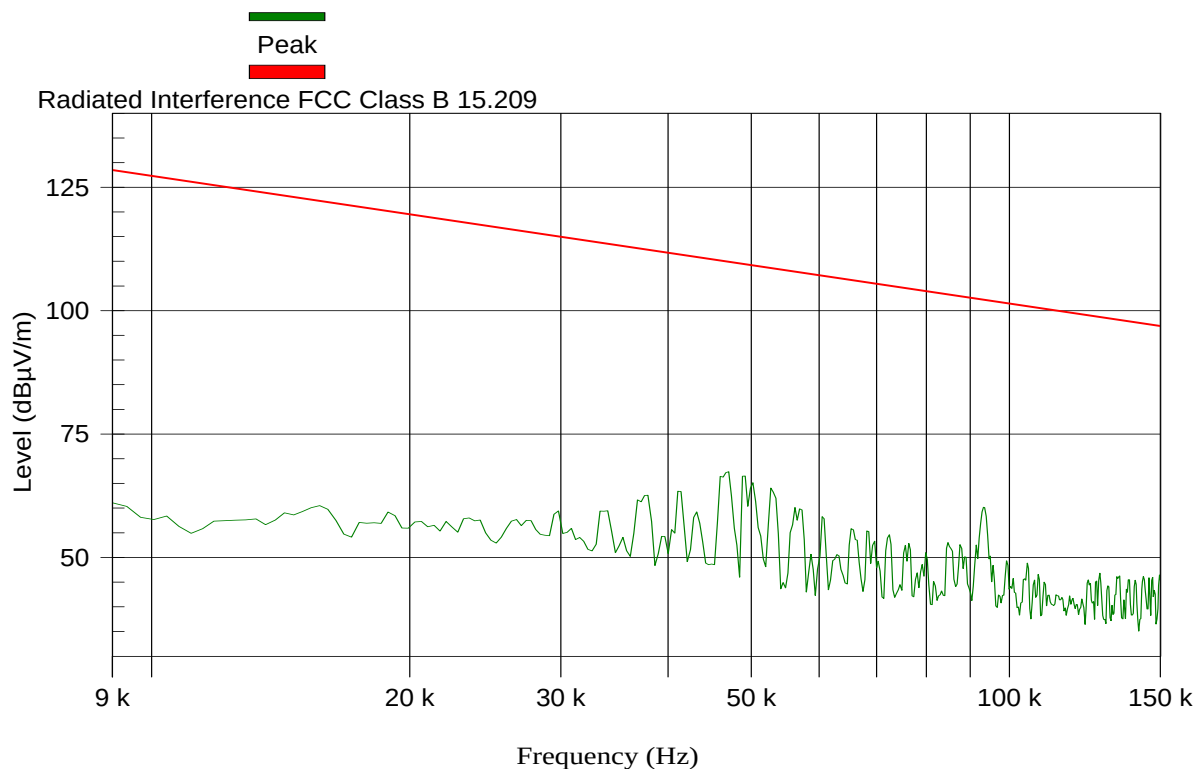
Test Results Plot No 4

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:36:24

Flat_23dBi; Vertical; LOW_5.735 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

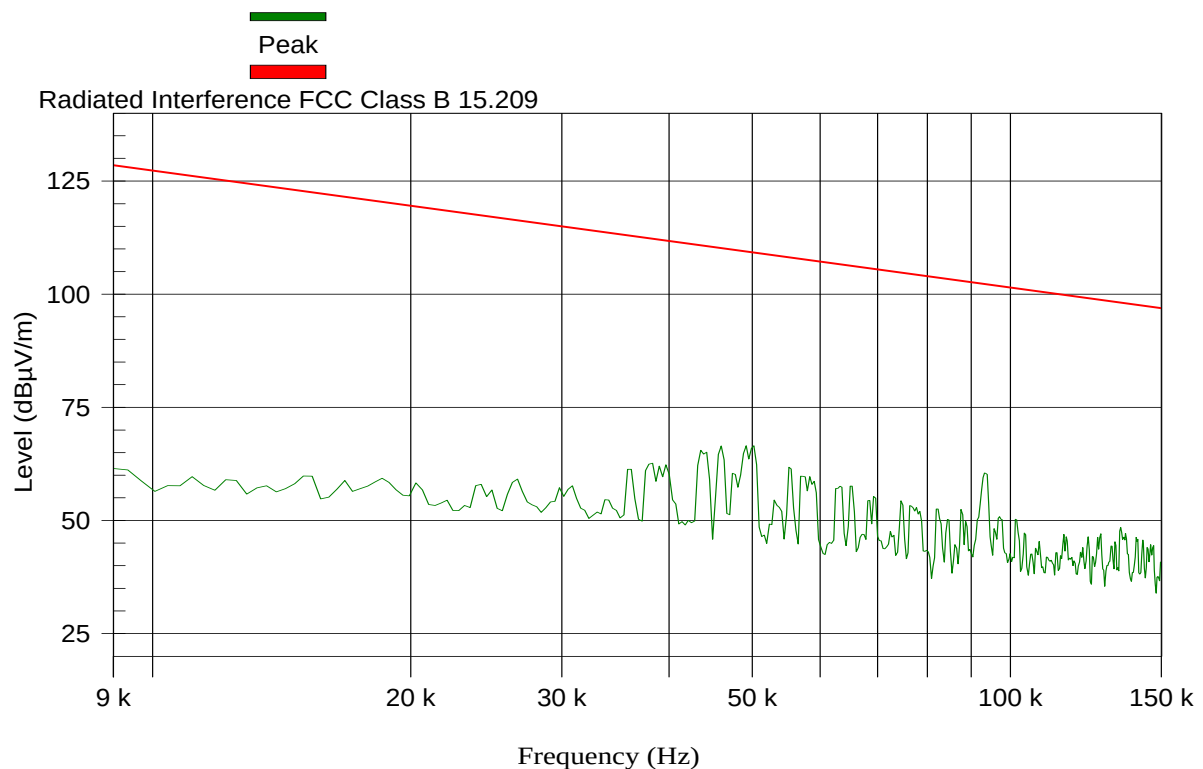
Test Results Plot No 5

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:37:20

Flat_23dBi; Vertical; MID_5.790 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

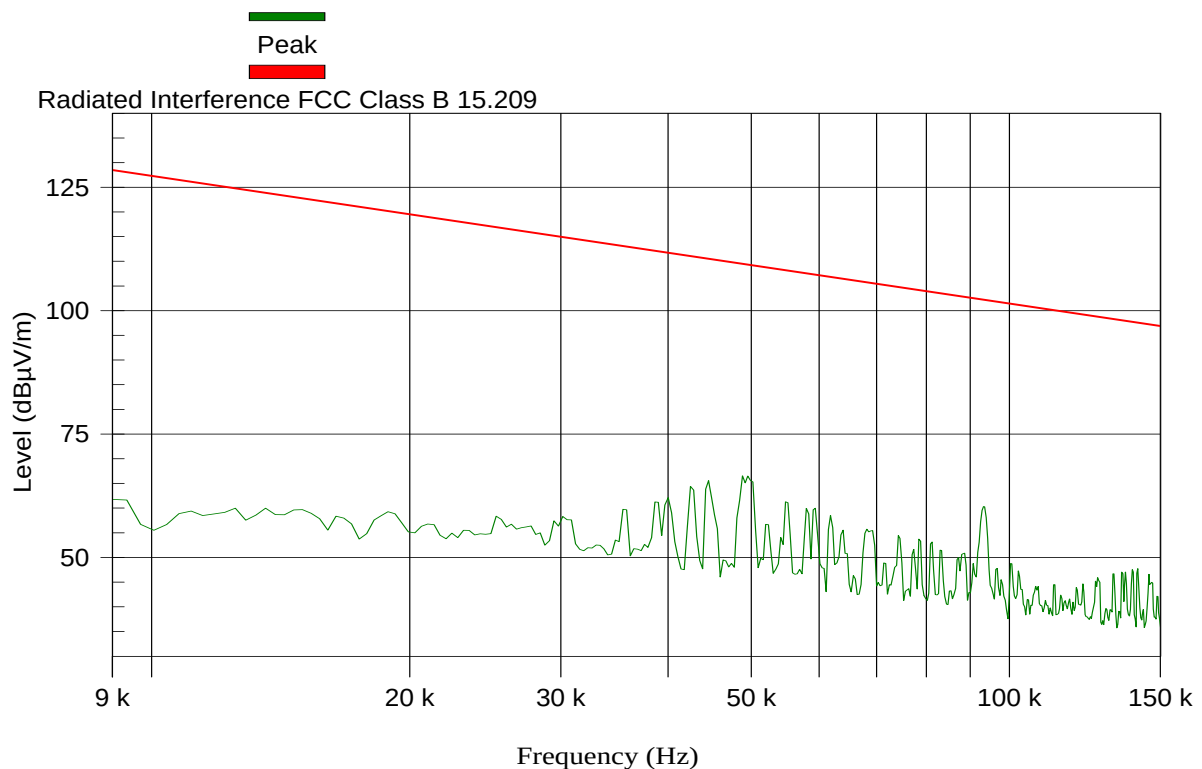
Test Results Plot No 6

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:35:34

Flat_23dBi; Vertical; HIGH_5.840 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

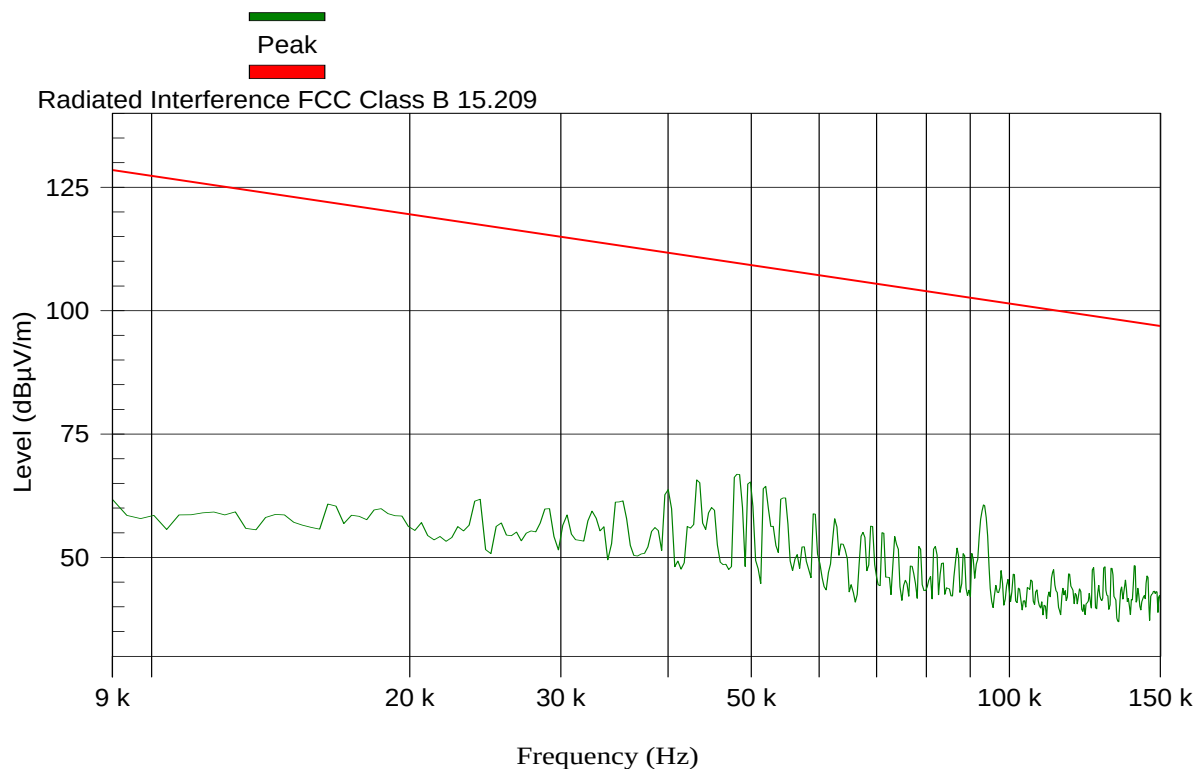
Test Results Plot No 7

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:39:09

Flat_23dBi; Vertical; LOW_5.735 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

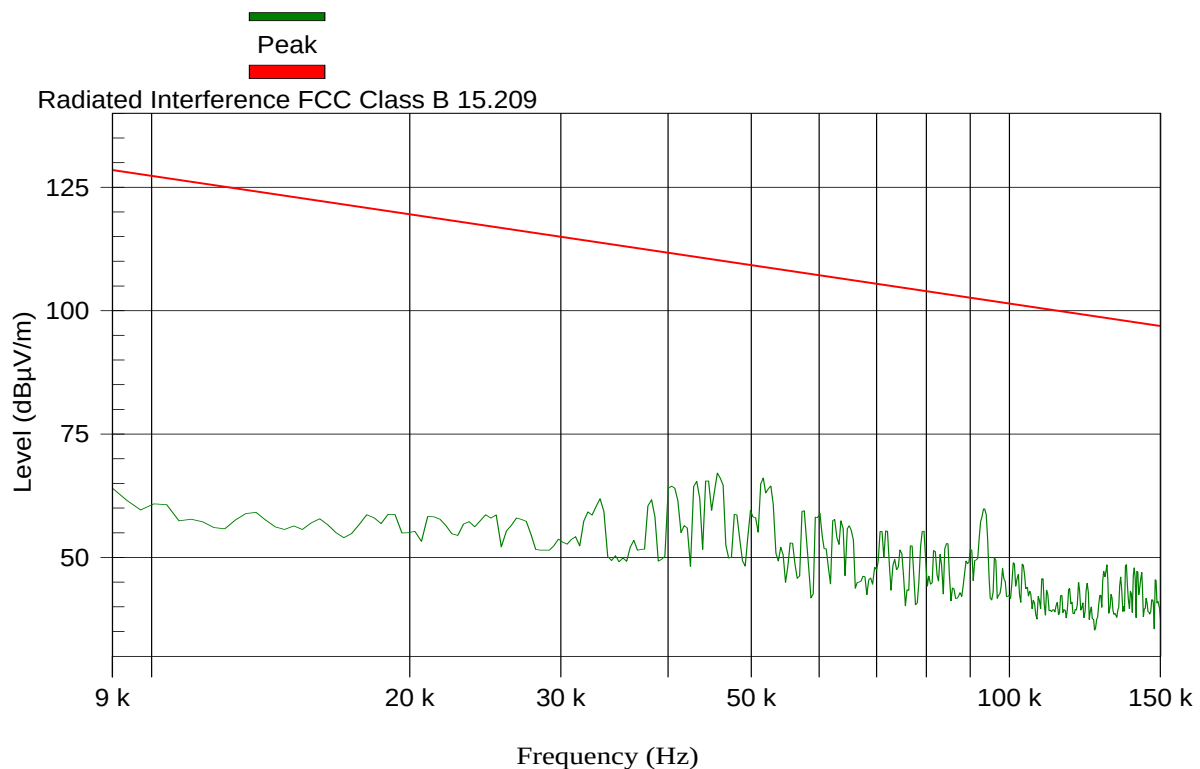
Test Results Plot No 8

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:38:10

Flat_23dBi; Vertical; MID_5.790GHz, BW=20 Mhz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

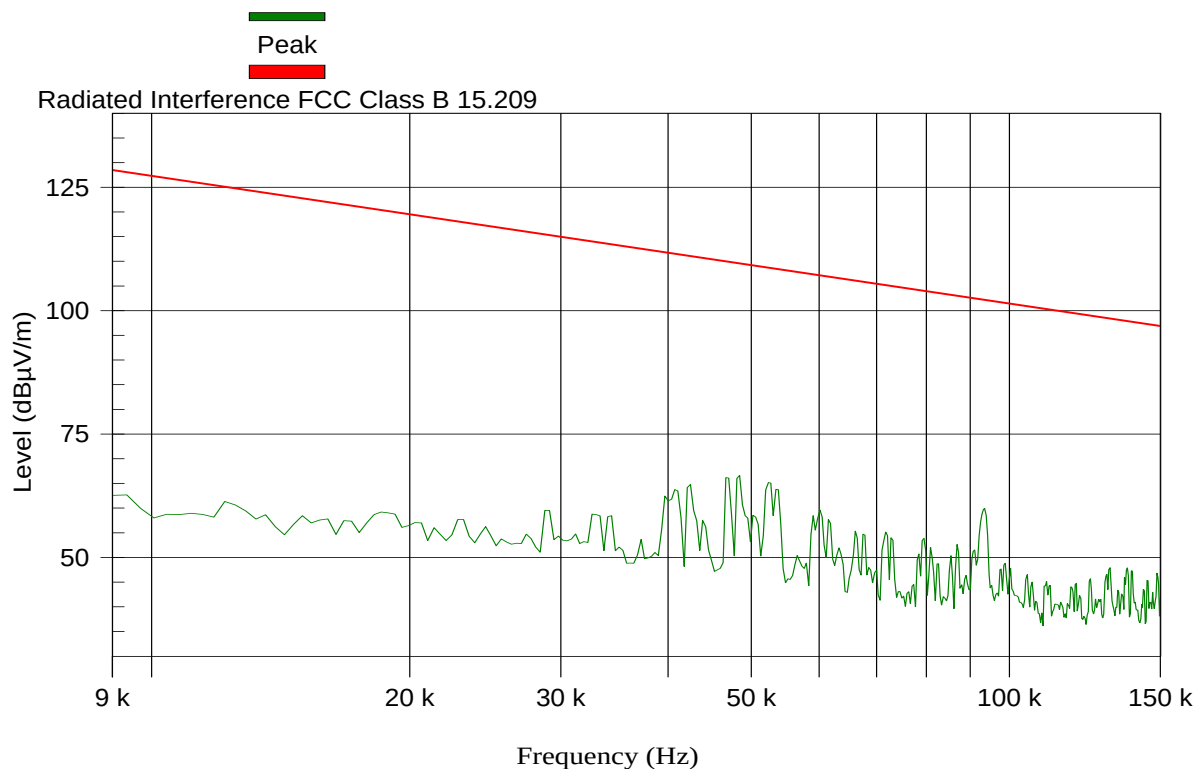
Test Results Plot No 9

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:39:55

Flat_23dBi; Vertical; HIGH_5.84 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

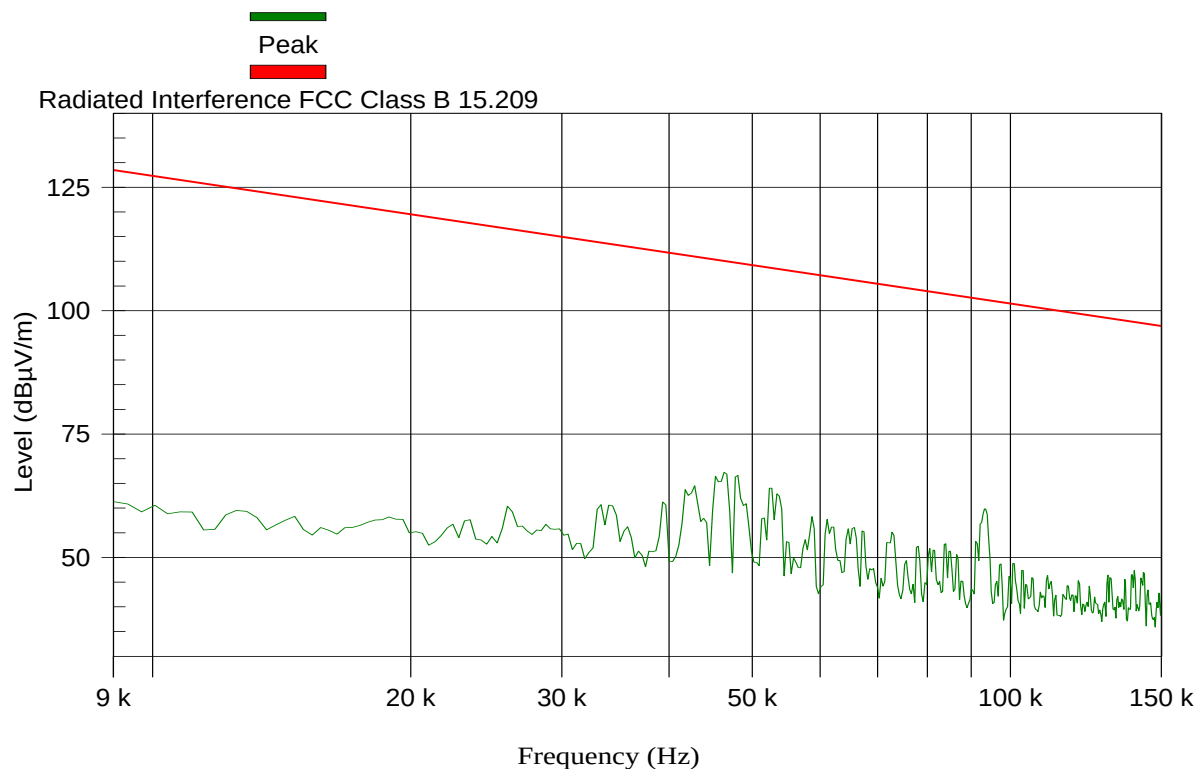
Test Results Plot No 10

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:40:54

Flat_23dBi; Vertical; LOW_5.745 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

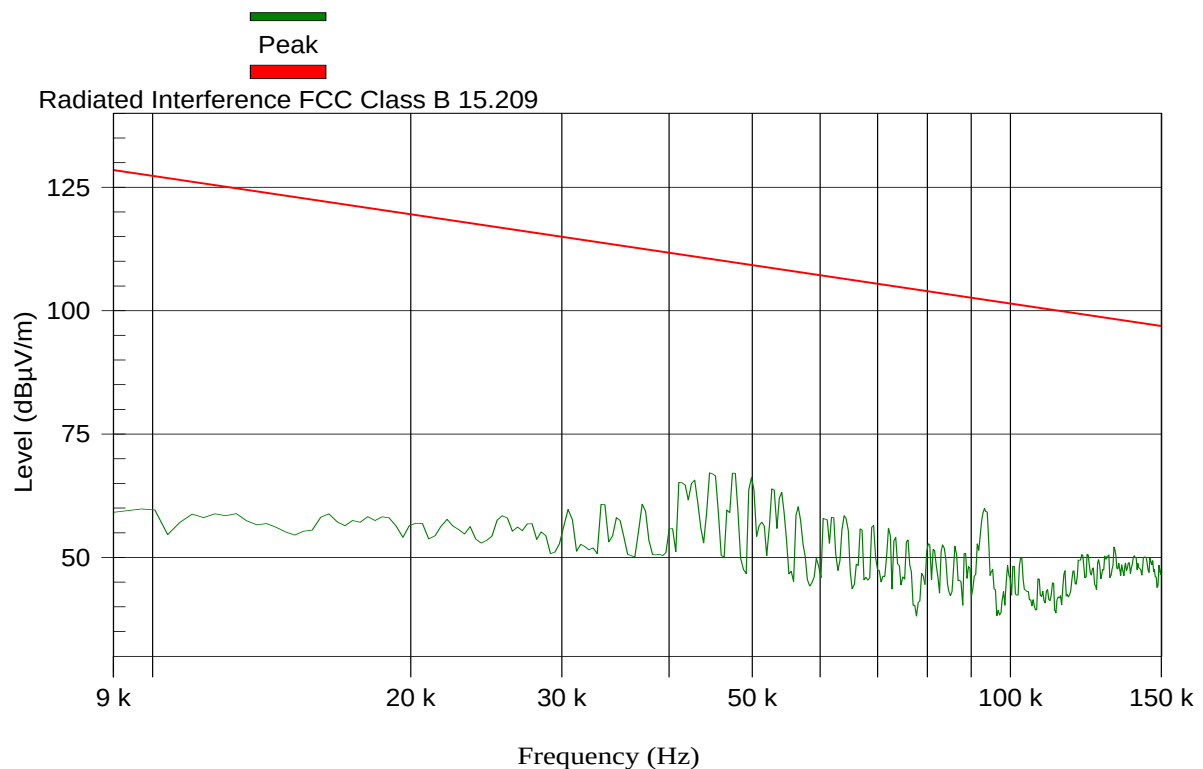
Test Results Plot No 11

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:41:56

Flat_23dBi; Vertical; MID_5.790 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

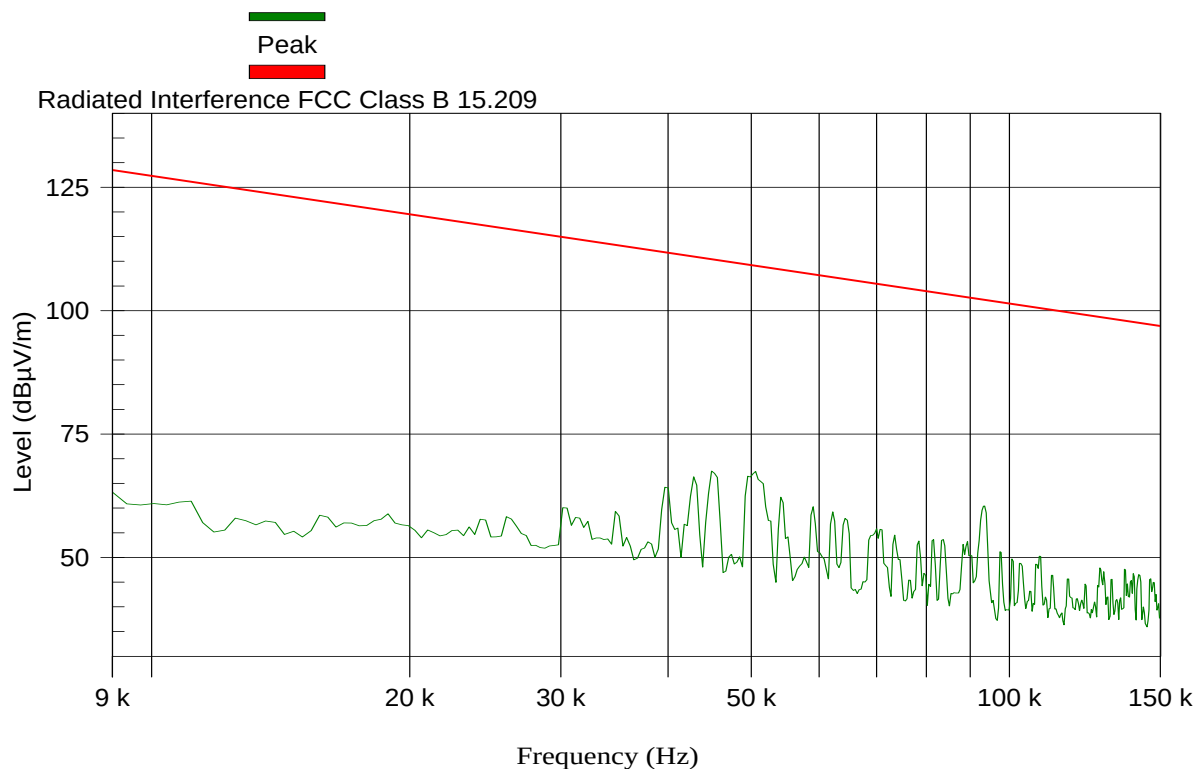
Test Results Plot No 12

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:42:53

Flat_23dBi; Vertical; HIGH_5.830 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

5.9.2. Flat_23dBi_150K-30M

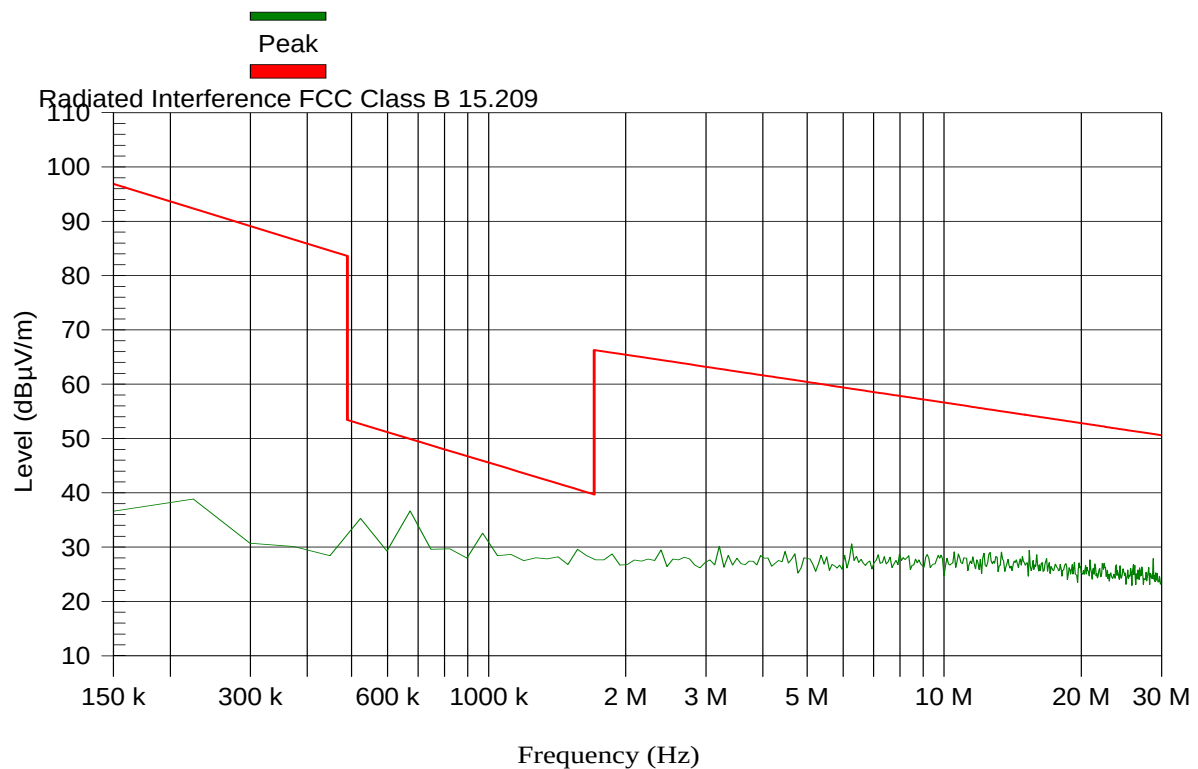
Test Results Plot No 13

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Ambient noise at the chamber



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

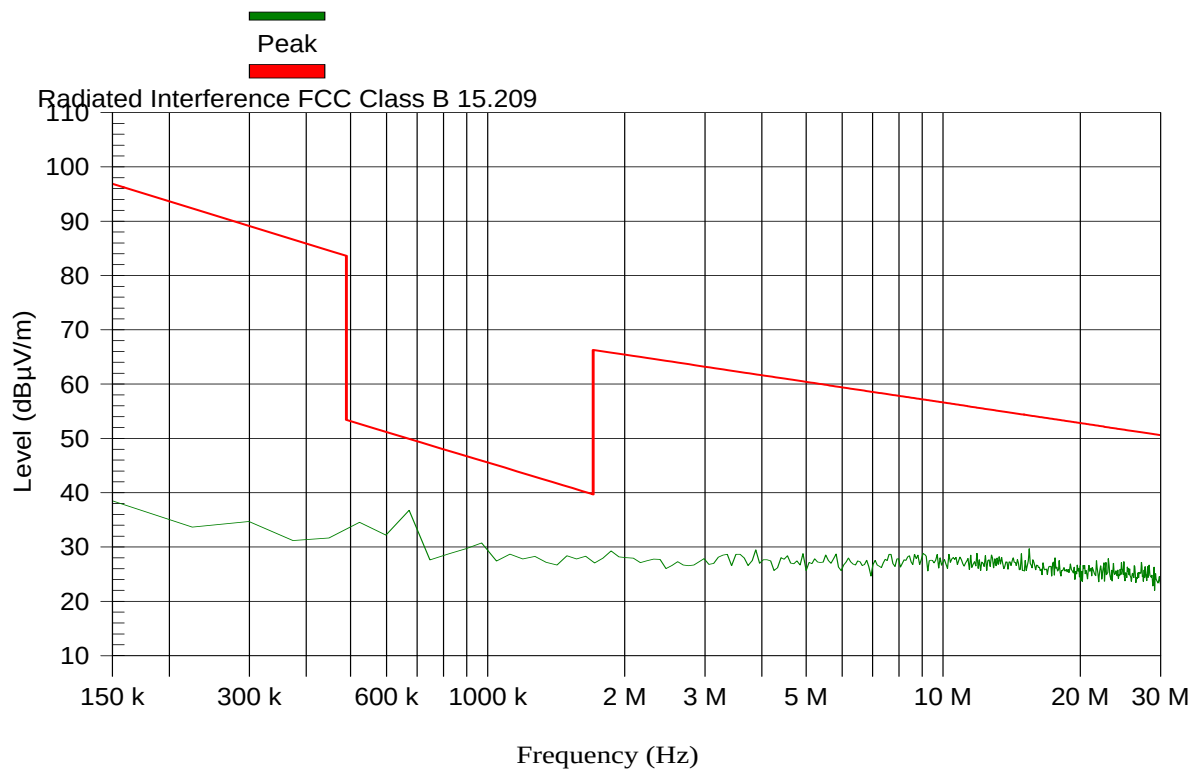
Test Results Plot No 14

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Flat 23-dBi; Low 5.73 GHz 5 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

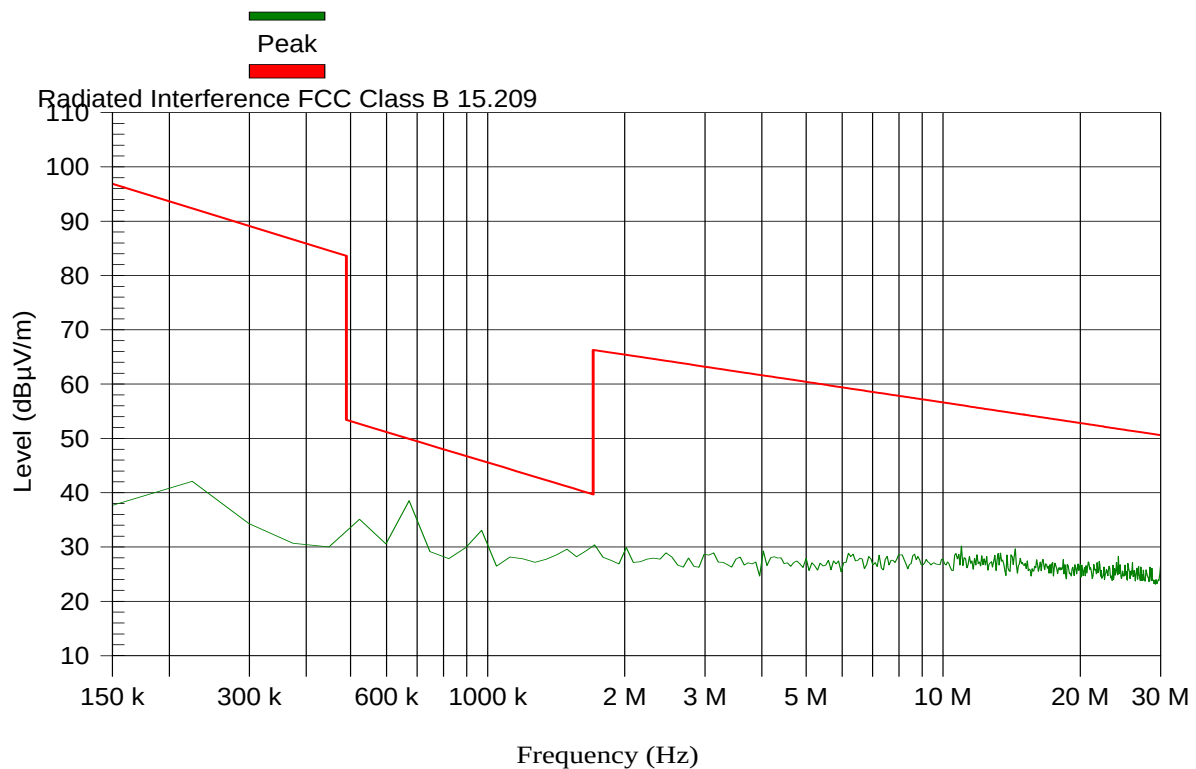
Test Results Plot No 15

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Flat 23-dBi; Mid 5.79 GHz 5 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

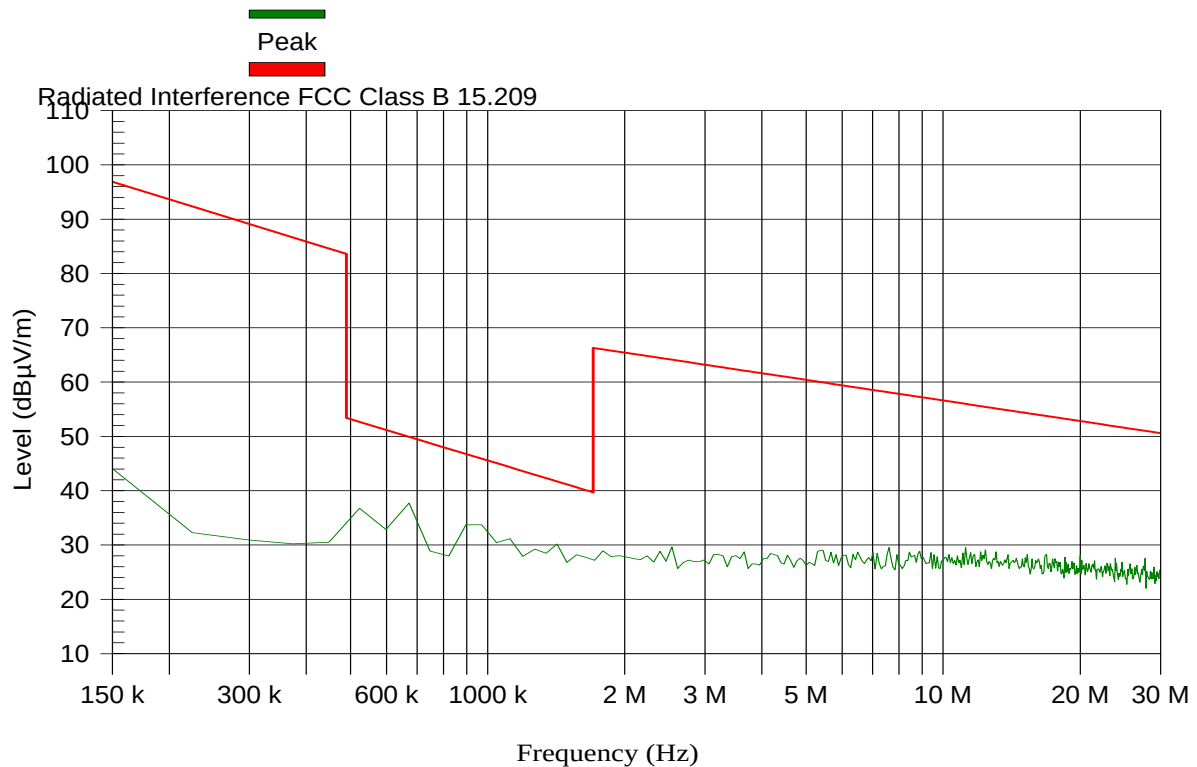
Test Results Plot No 16

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Flat 23-dBi; High 5.845 GHz 5 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

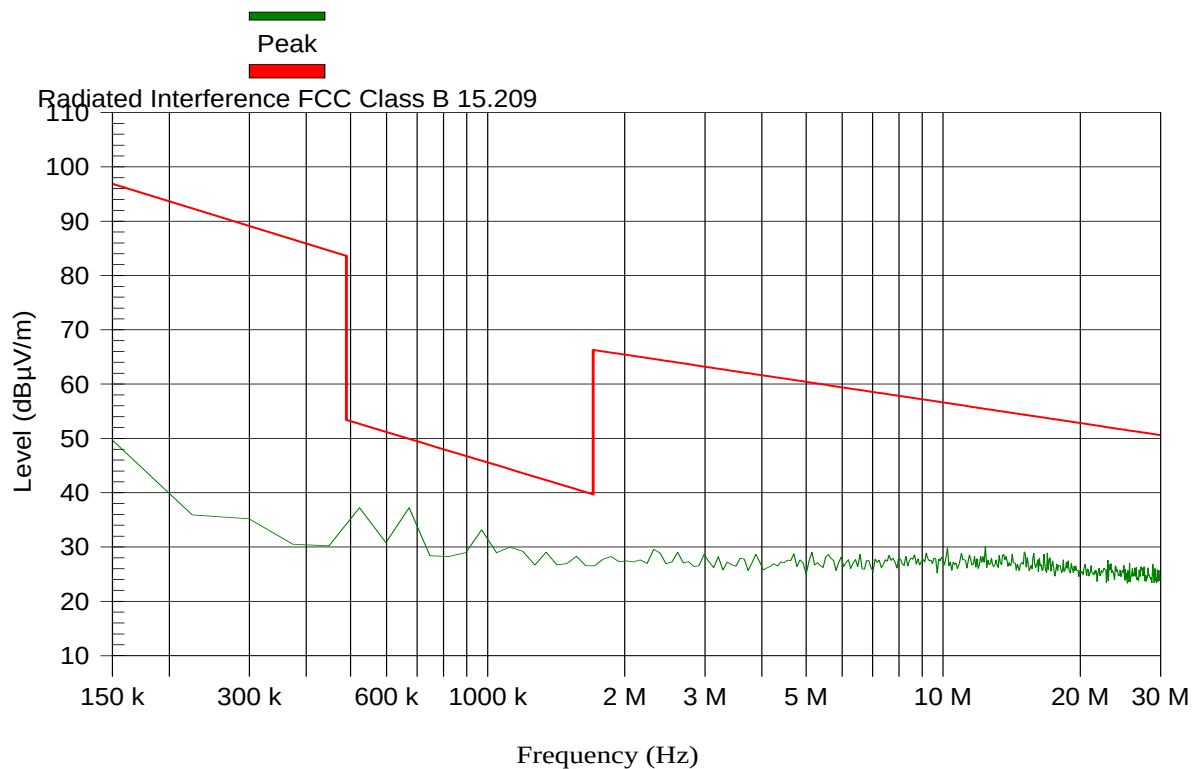
Test Results Plot No 17

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Flat 23-dBi; Low 5.735 GHz 10 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

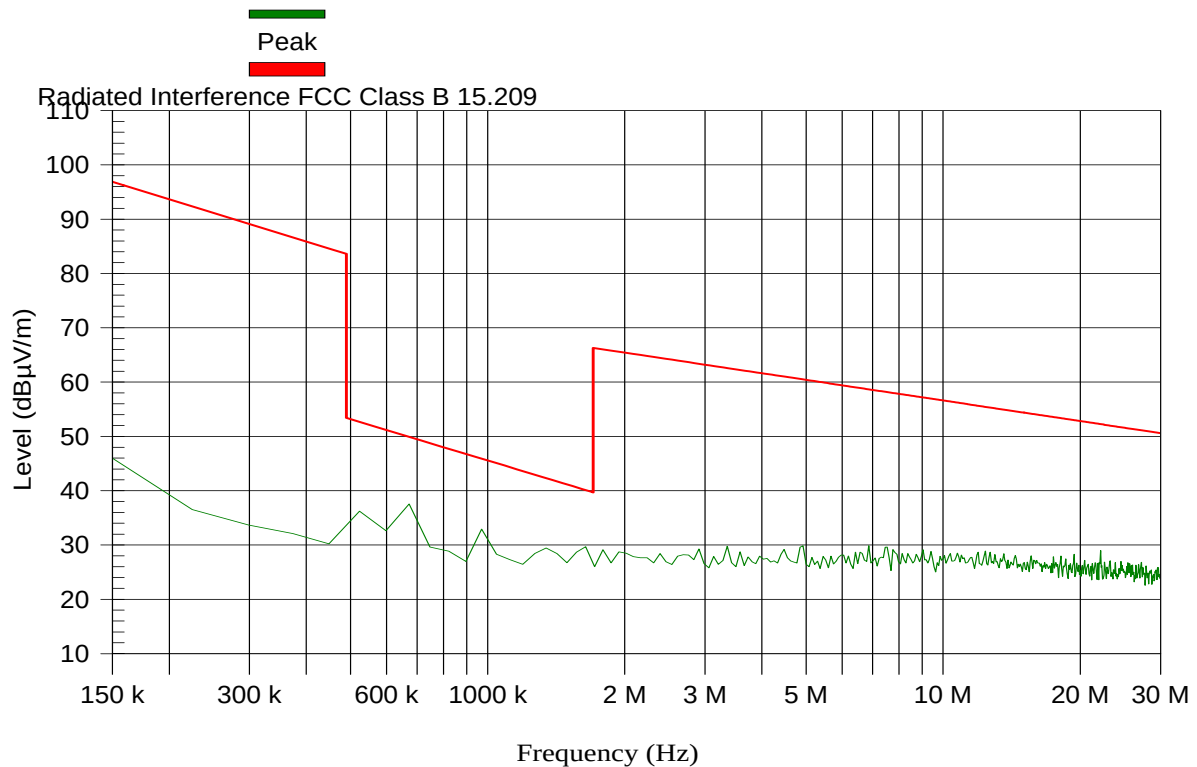
Test Results Plot No 18

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Flat 23-dBi; Mid 5.790 GHz 10 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

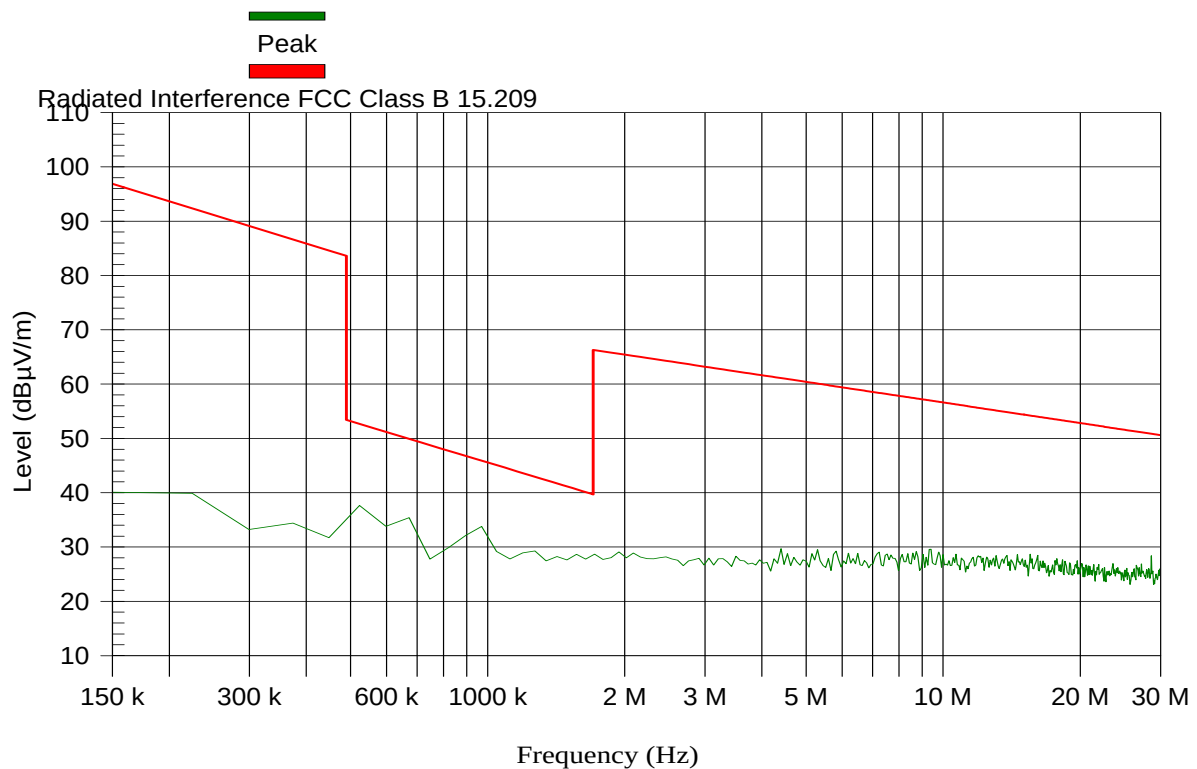
Test Results Plot No 19

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Flat 23-dBi; High 5.790 GHz 10 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

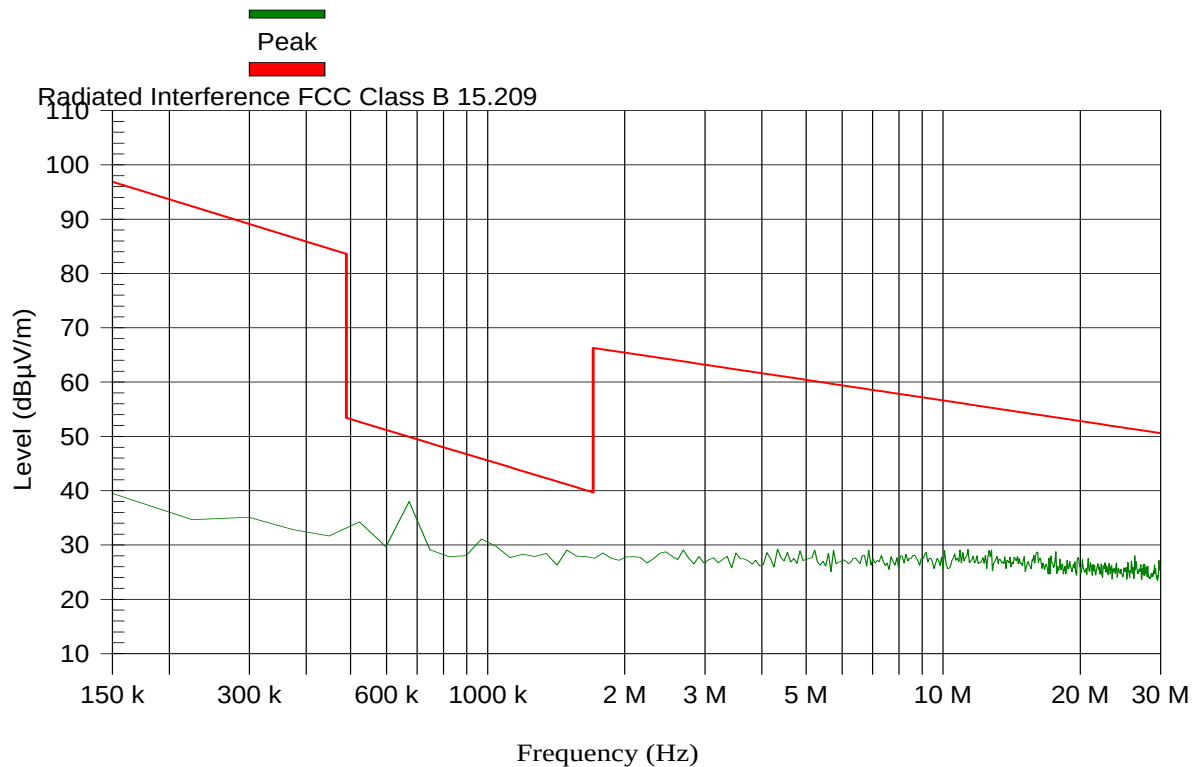
Test Results Plot No 20

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Flat 23-dBi; low 5.735 GHz 20 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

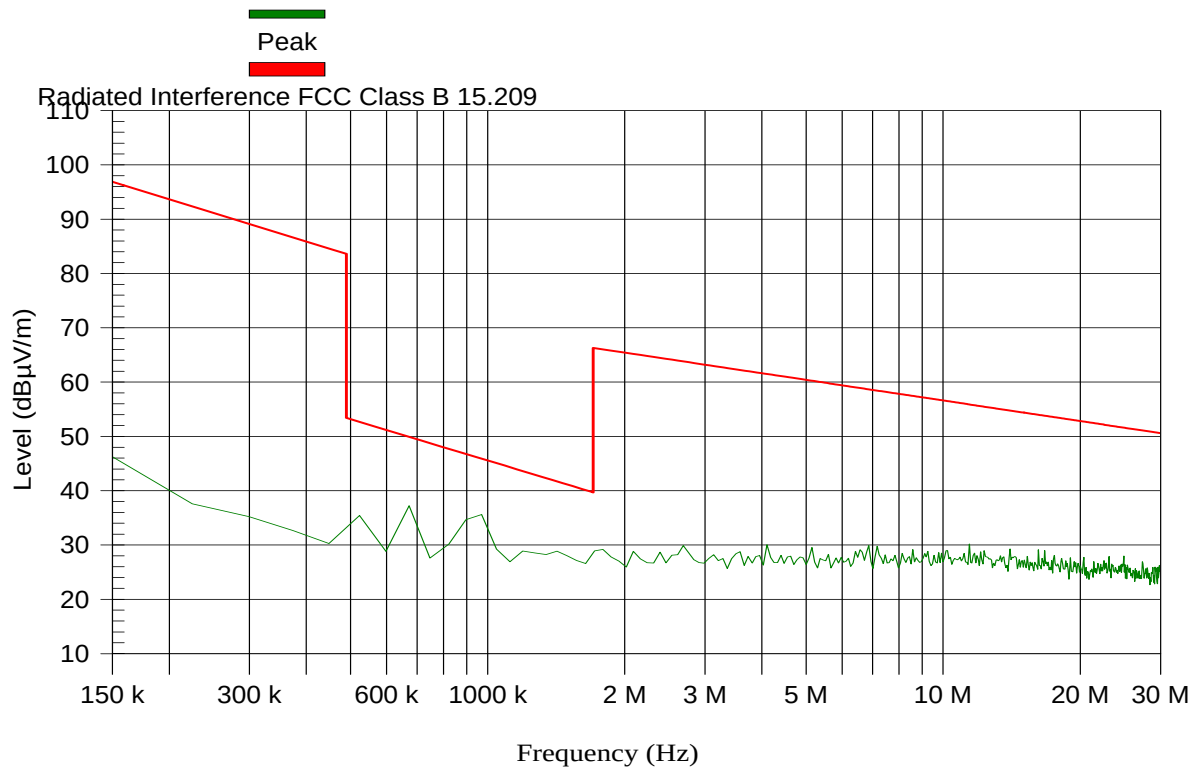
Test Results Plot No 21

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS:04 March 2010

Flat 23-dBi; Mid 5.790 GHz 20 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

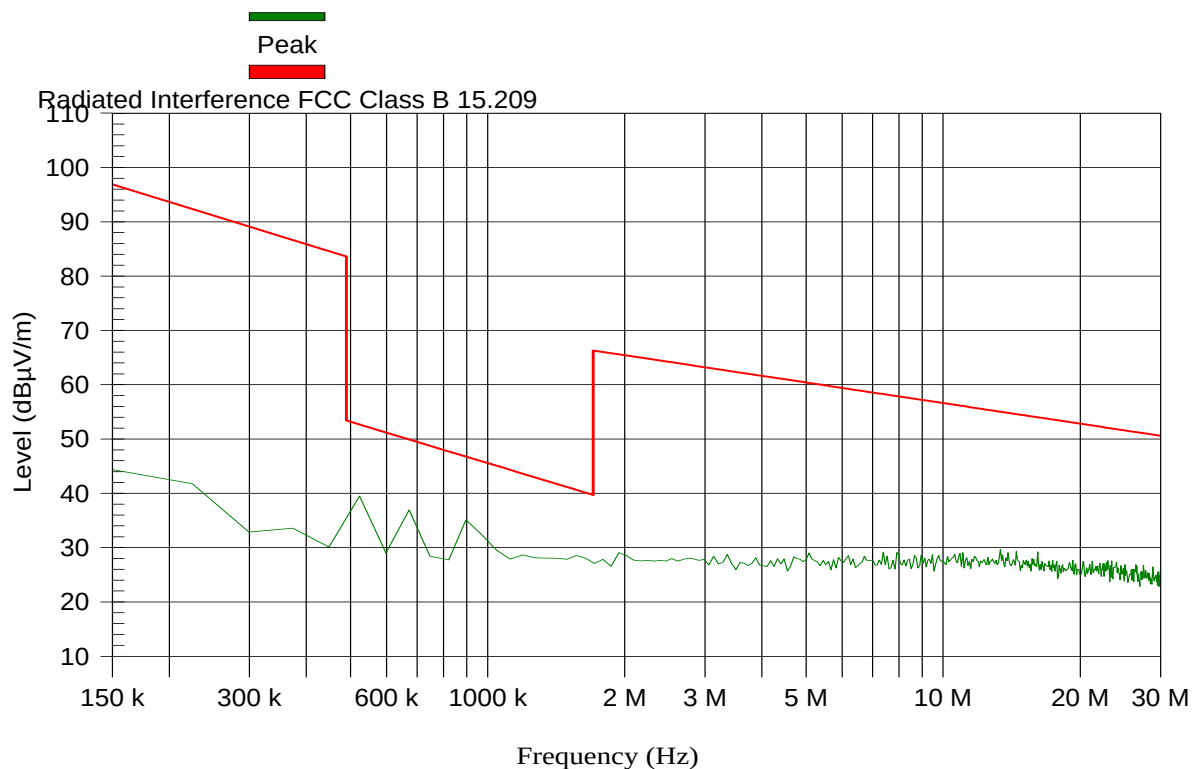
Test Results Plot No 22

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS:04 March 2010

Flat 23-dBi; High 5.840 GHz 20 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

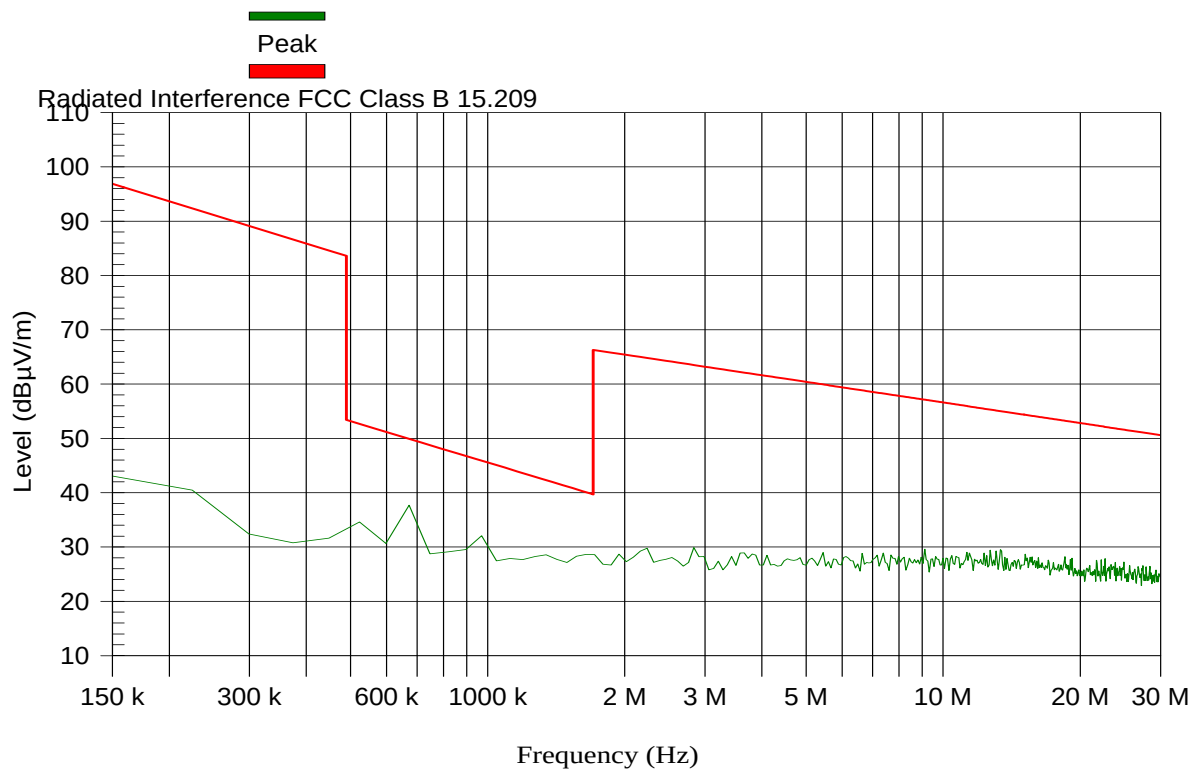
Test Results Plot No 23

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Flat 23-dBi; low 5.745 GHz 40 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

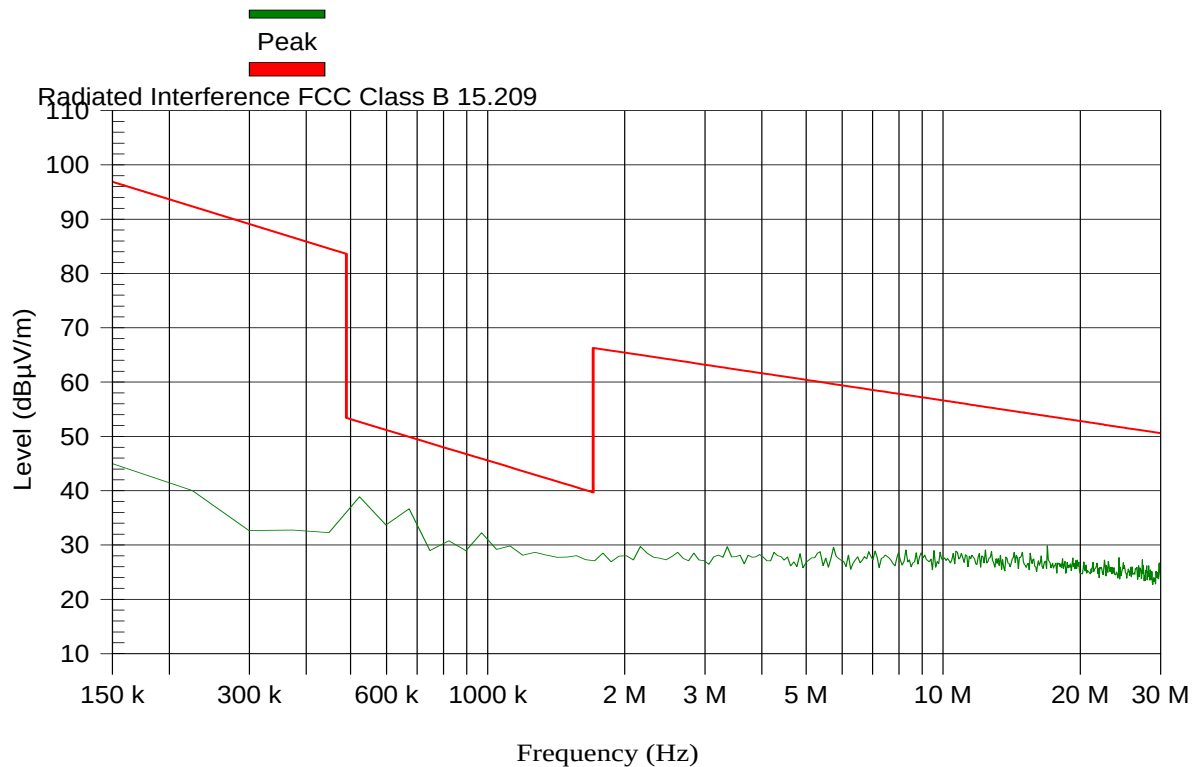
Test Results Plot No 24

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Flat 23-dBi; Mid 5.790 GHz 40 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

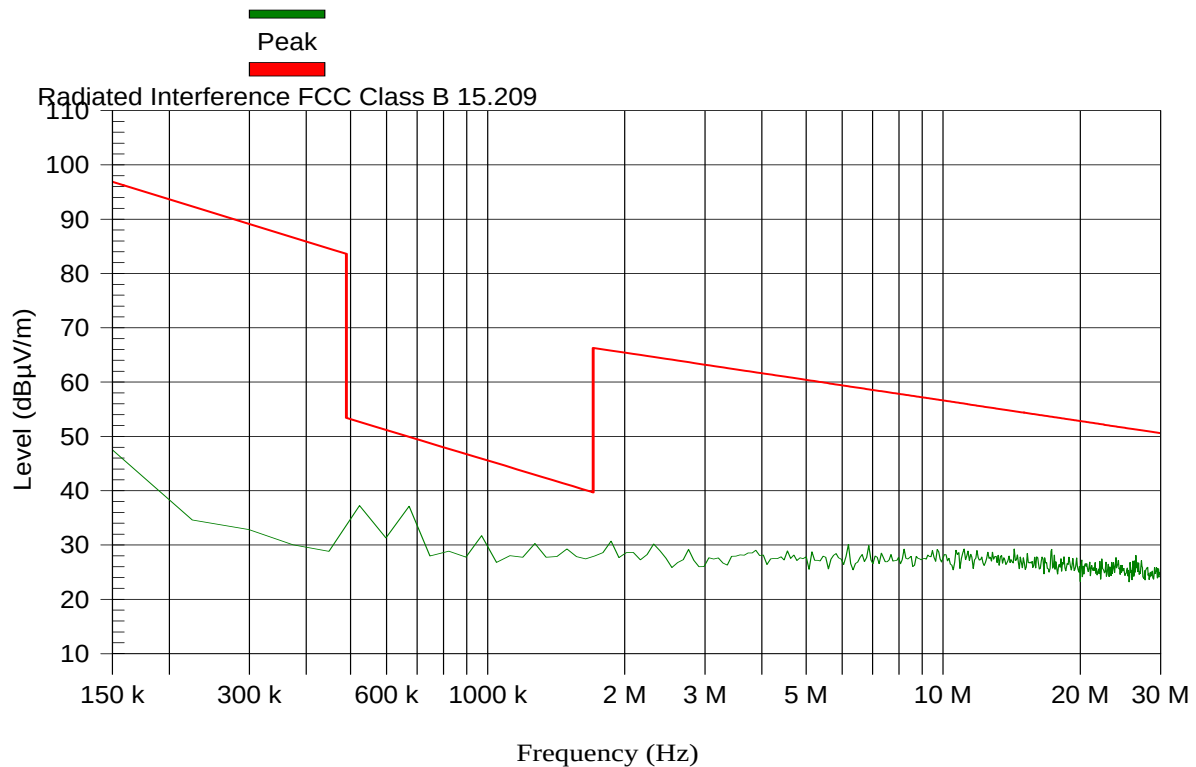
Test Results Plot No 25

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Flat 23-dBi; HIGH 5.830 GHz 40 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

5.9.3. Flat_23dBi_Antenna_30 MHz - 1 GHz

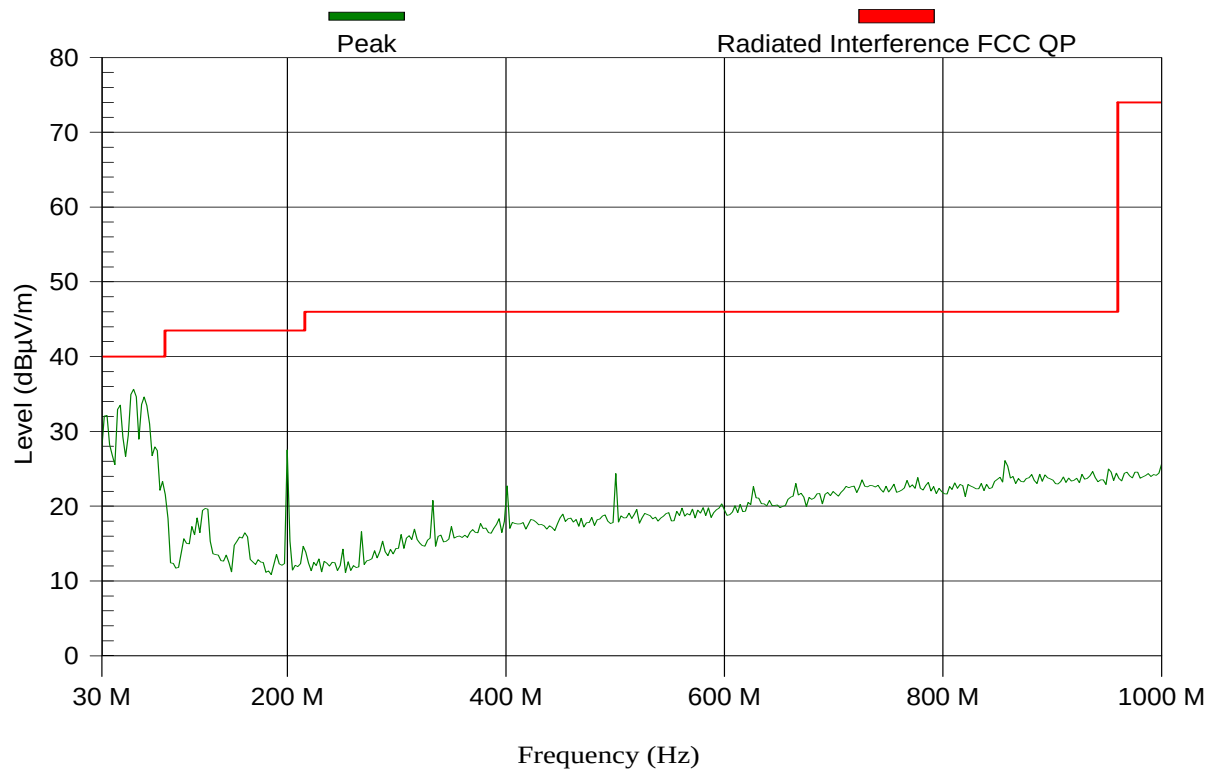
Test Results Plot No 26

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:07:15

Flat_23dBi; Quasi Peak; LOW_5.730 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degree s)	Height (m)	H/V
1	58.581	35	33.1	40	40	Pass	0	1.2	V
2	68.052	34.2	31.9	40	40	Pass	0	1.2	V

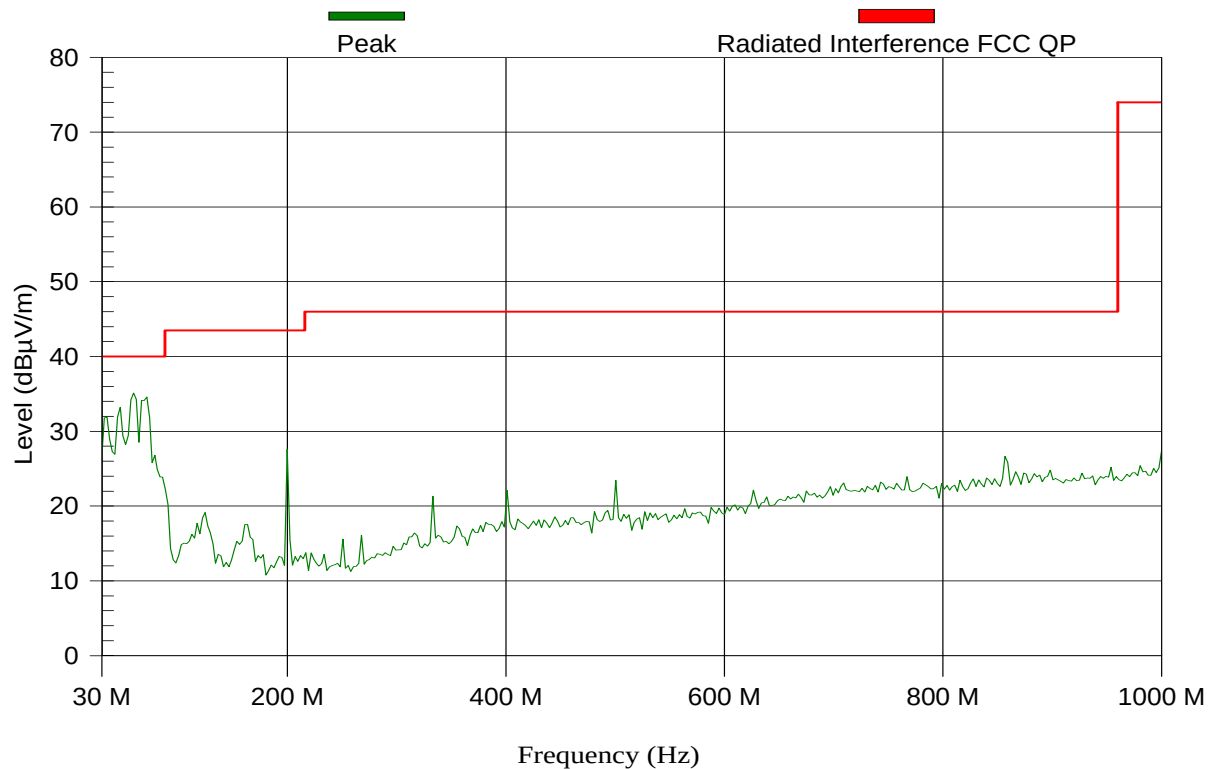
Test Results Plot No 27

30 MHz-1GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:04:15

Flat_23dBi; Quasi Peak; MID_5.790 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	45.292	34.1	31.3	40	40	Pass	0	1	V
2	58.318	36.1	32.8	40	40	Pass	0	1	V
3	58.821	35.5	33.4	40	40	Pass	0	1	V

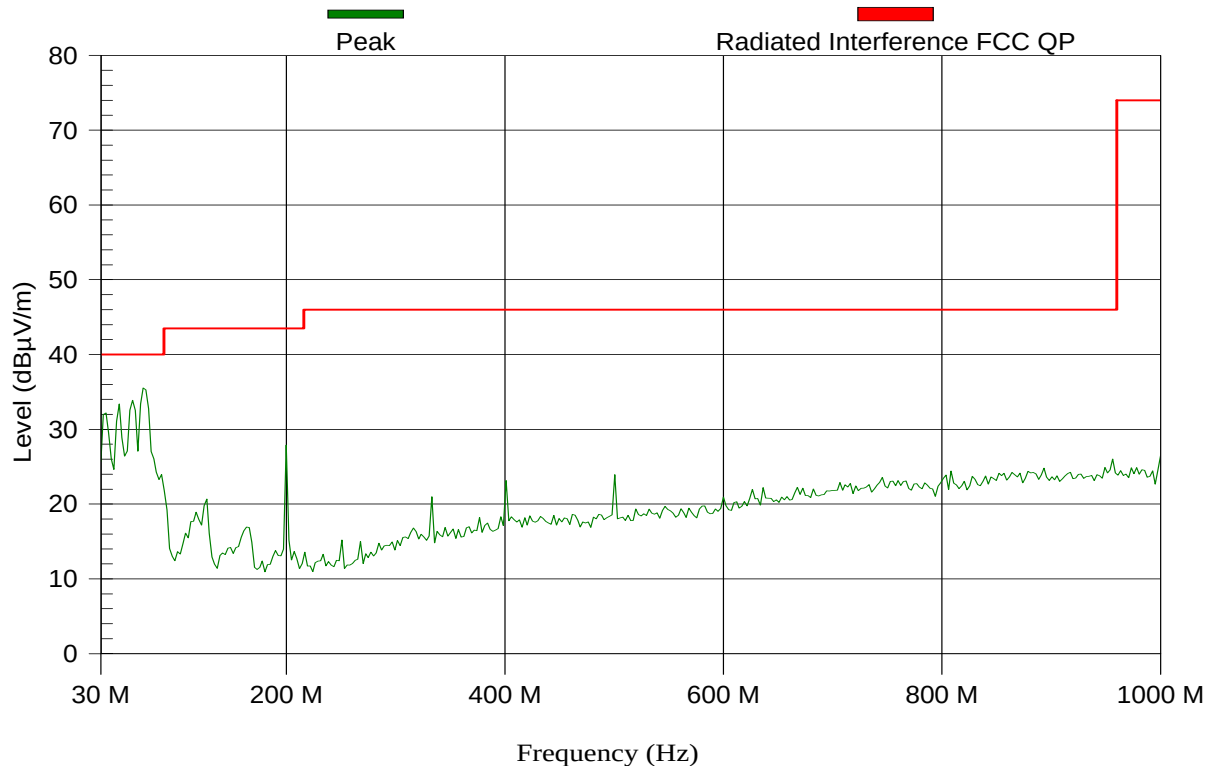
Test Results Plot No 28

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:00:27

Flat_23dBi; Quasi Peak; High_5.845 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	67.286	34.6	33.1	40	40	Pass	0	1	V
2	70.6	34.2	31.6	40	40	Pass	0	1	V

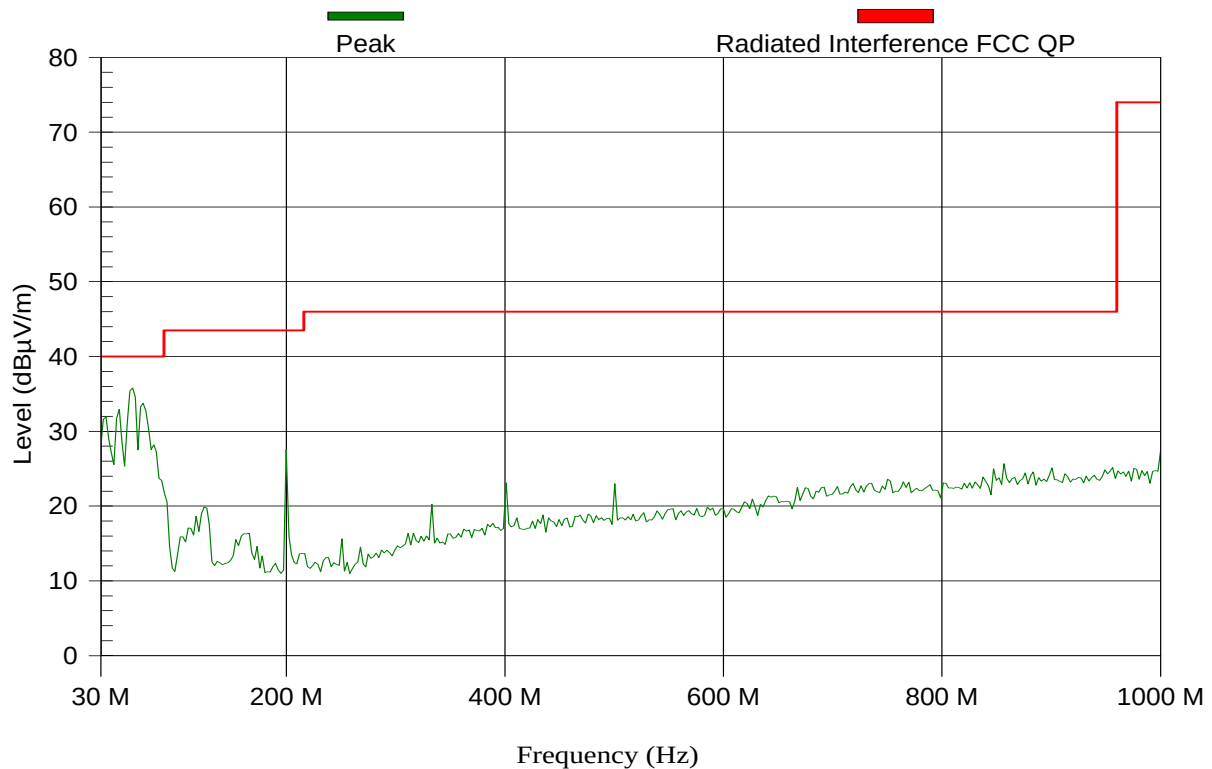
Test Results Plot No 29

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:15:57

Flat_23dBi; Quasi Peak; LOW_5.735 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	58.877	36.3	33.6	40	40	Pass	0	1	V

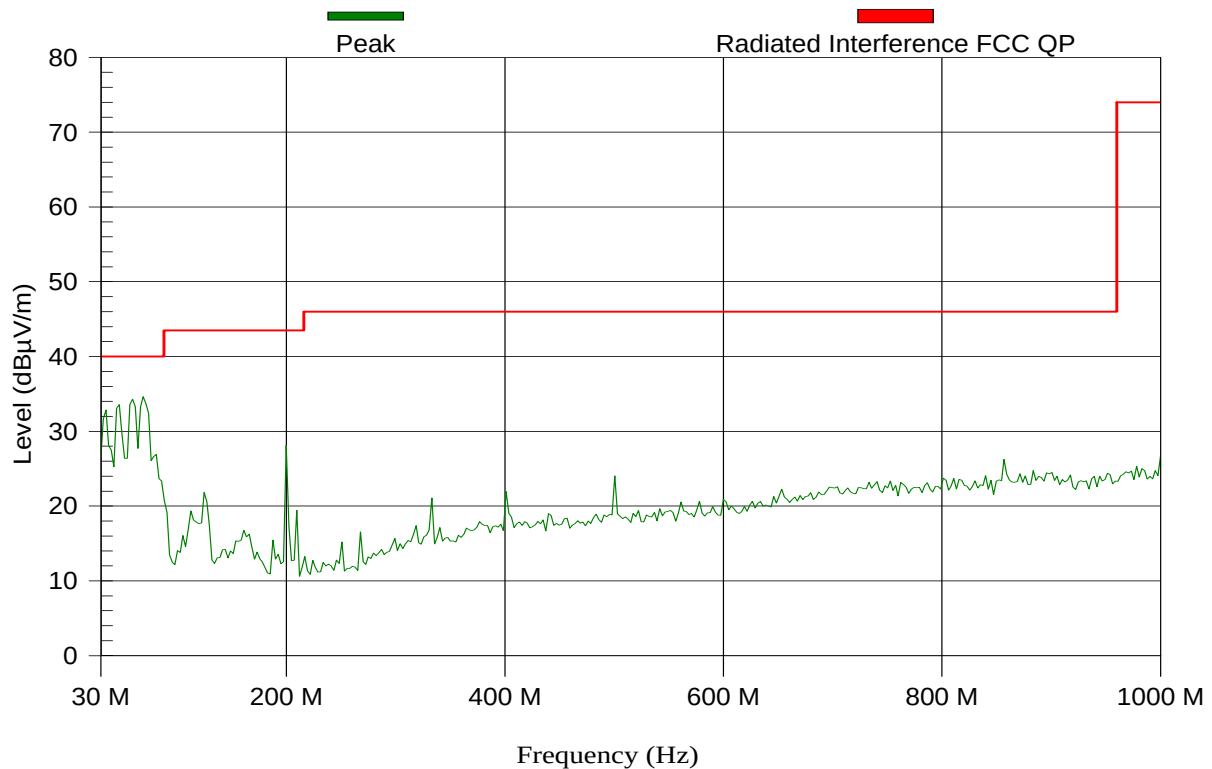
Test Results Plot No 30

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:13:14

Flat_23dBi; Quasi Peak; MID_5.790 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	58.521	34.9	32.7	40	40	Pass	0	1.2	V
2	69.069	34.5	31.8	40	40	Pass	0	1.2	V

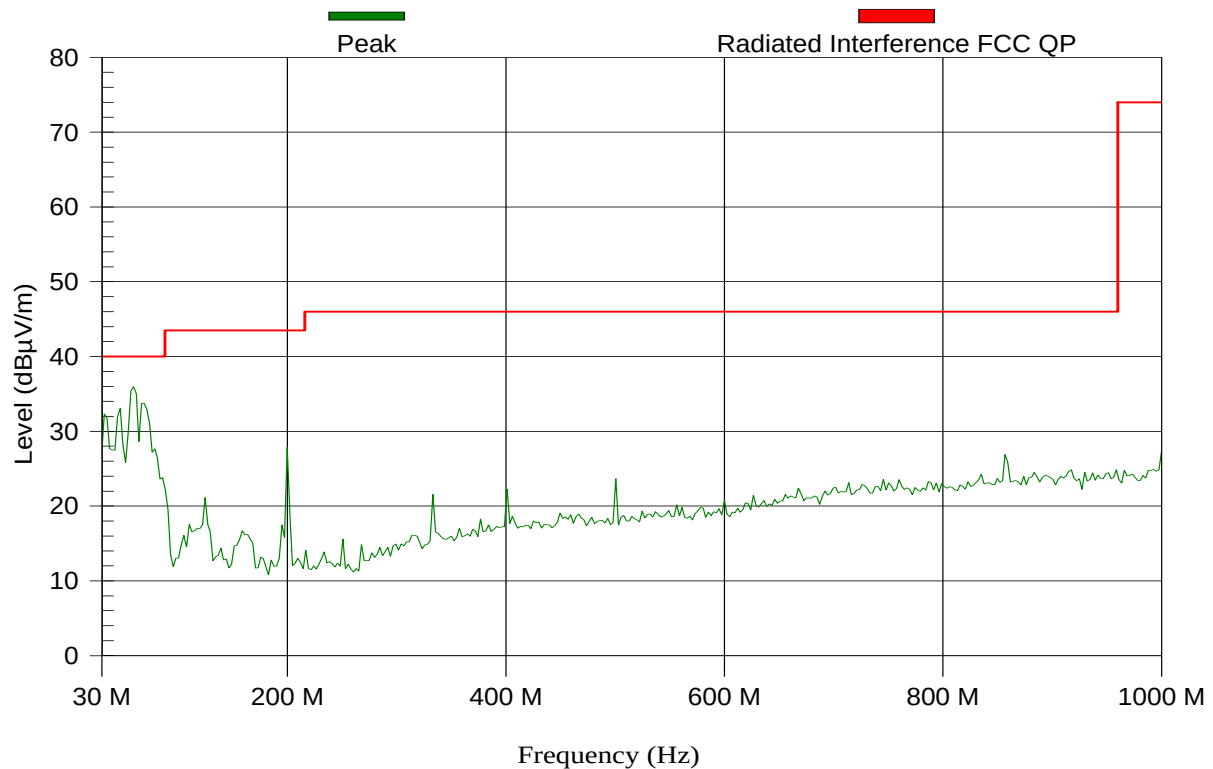
Test Results Plot No 31

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:09:43

Flat_23dBi; Quasi Peak; High_5.840 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	58.821	36.2	33.6	40	40	Pass	0	1	V

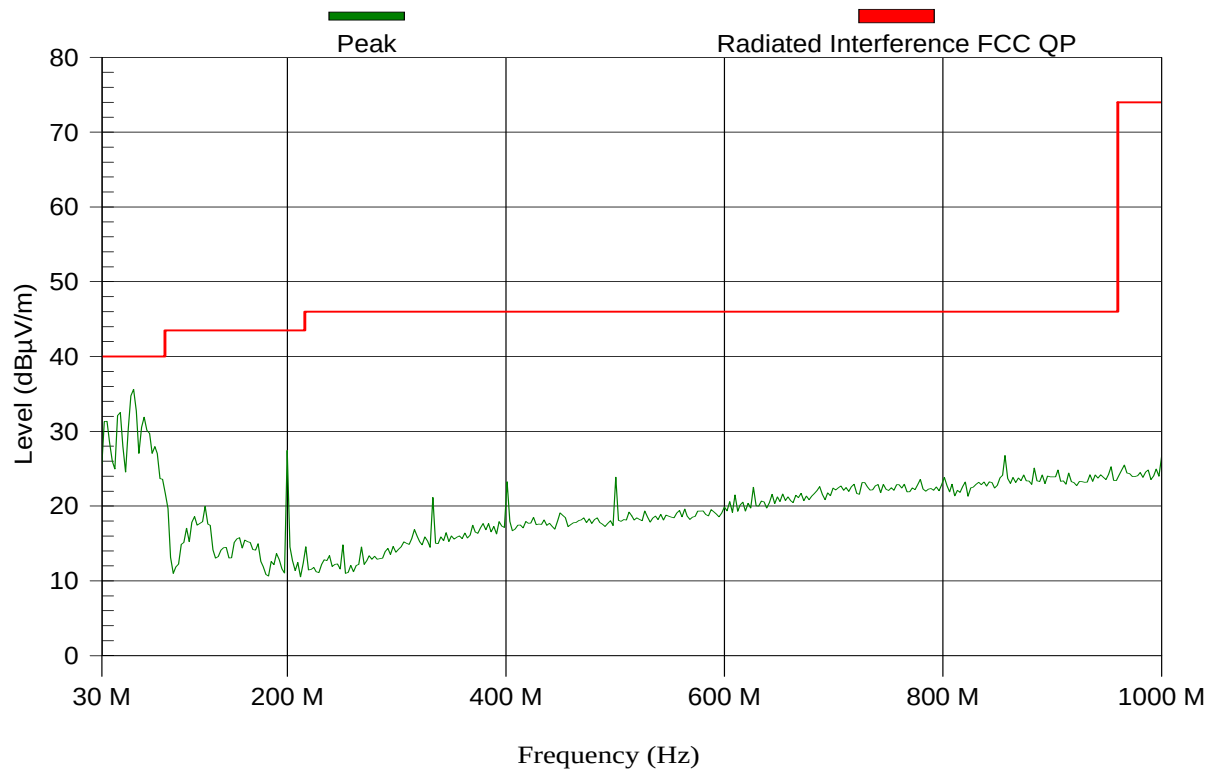
Test Results Plot No 32

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:18:46

Flat_23dBi; Quasi Peak; LOW_5.735 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	58.851	35	33.9	40	40	Pass	0	1	V

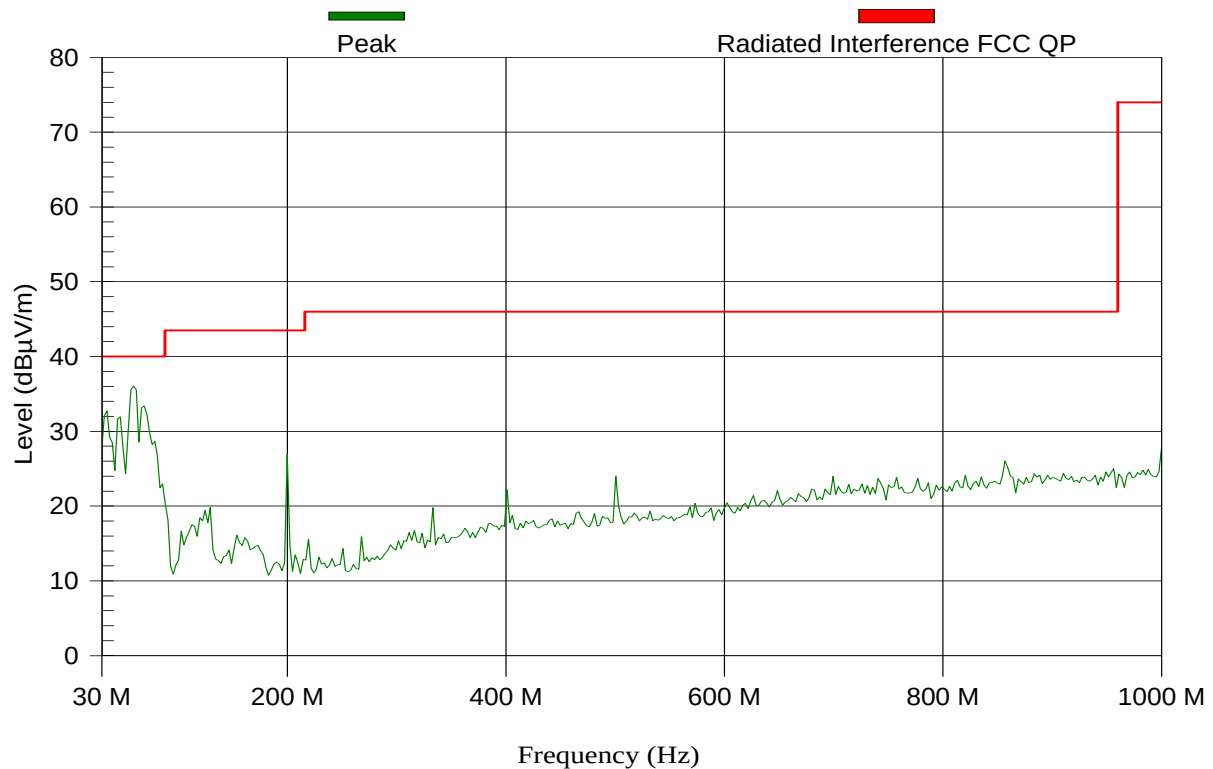
Test Results Plot No 33

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:21:56

Flat_23dBi; Quasi Peak; MID_5.790 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	58.428	36.2	33.7	40	40	Pass	0	1	V

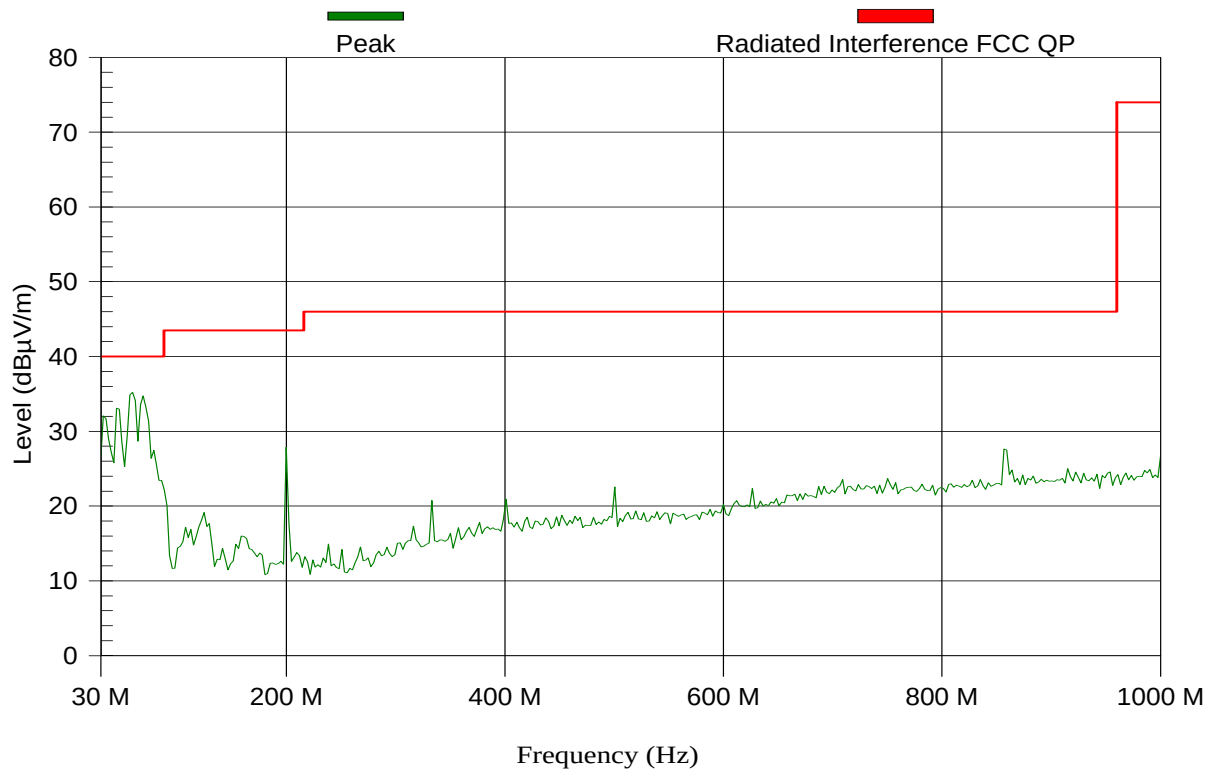
Test Results Plot No 34

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS:02 March 2010 12:24:57

Flat_23dBi; Quasi Peak; HIGH_5.840 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	58.006	34.9	33.2	40	40	Pass	0	1.2	V
2	58.753	35.7	33.2	40	40	Pass	0	1.2	V

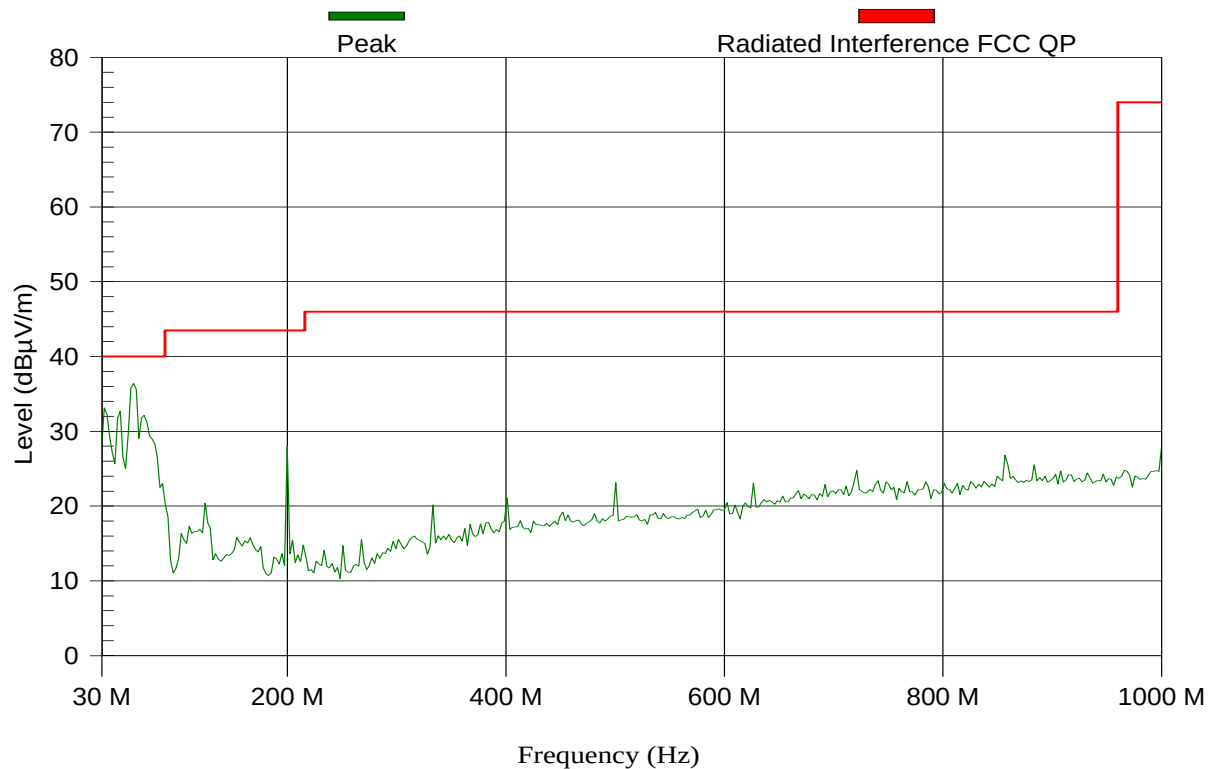
Test Results Plot No 35

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:27:31

Flat_23dBi; Quasi Peak; LOW_5.745 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	58.591	35.8	33.9	40	40	Pass	0	1	V

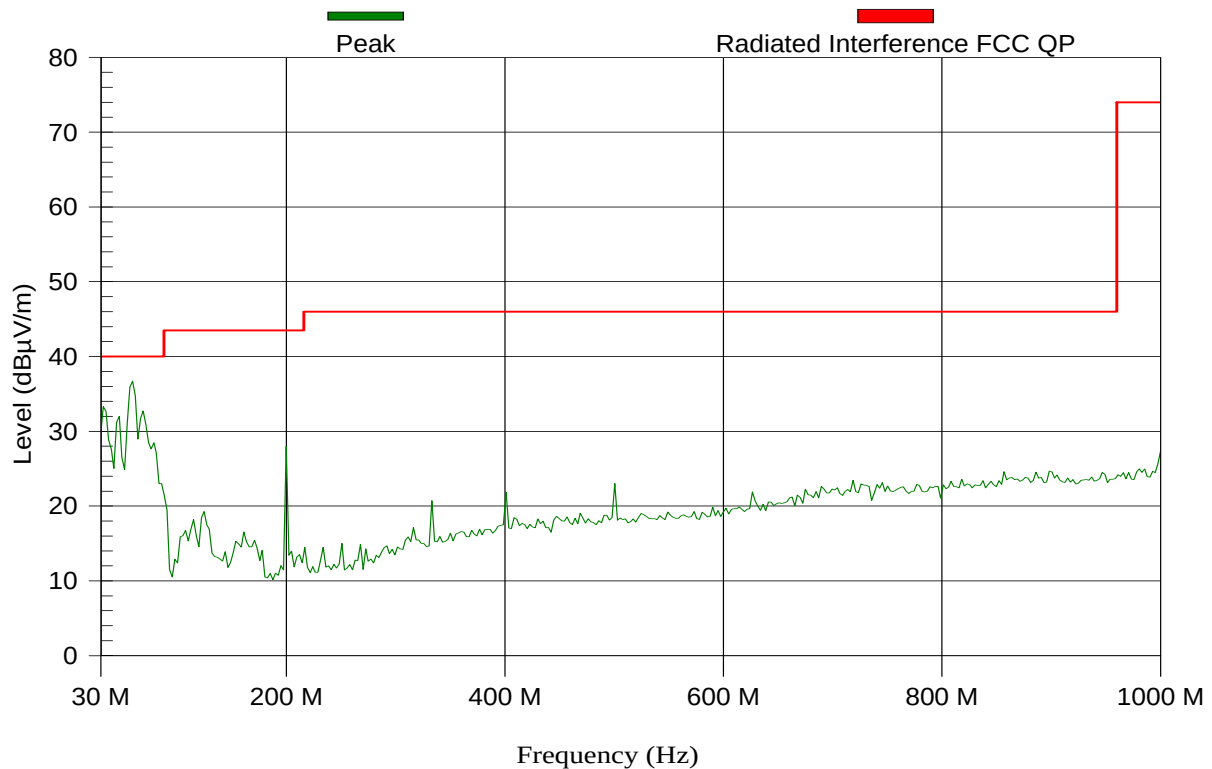
Test Results Plot No 36

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:29:49

Flat_23dBi; Quasi Peak; MID_5.79 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	58.085	36.4	34.1	40	40	Pass	0	1	V

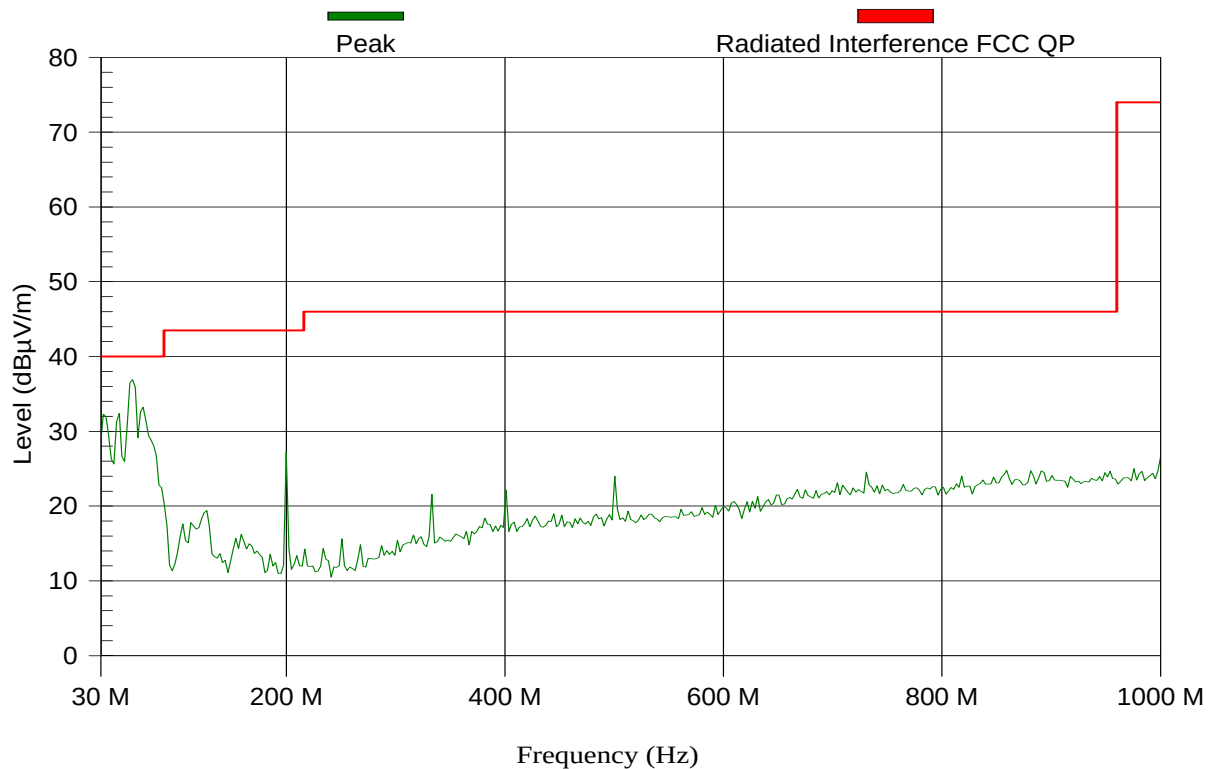
Test Results Plot No 37

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:32:14

Flat_23dBi; Quasi Peak; HIGH_5.830 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	58.092	36.3	34.3	40	40	Pass	0	1	V

5.9.4. Flat_23dBi_antenna_1 GHz - 2.9 GHz

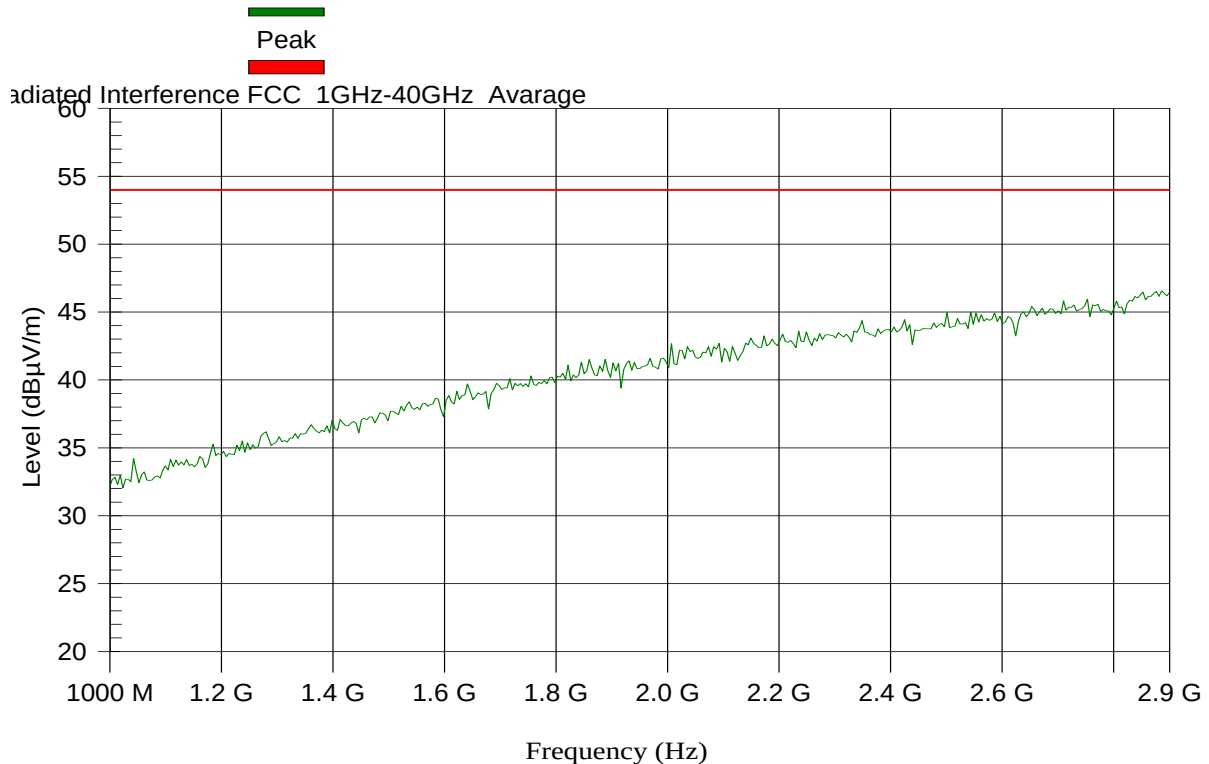
Test Results Plot No 38

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:37:14

Flat_23dBi; AVG; Low_5.730 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

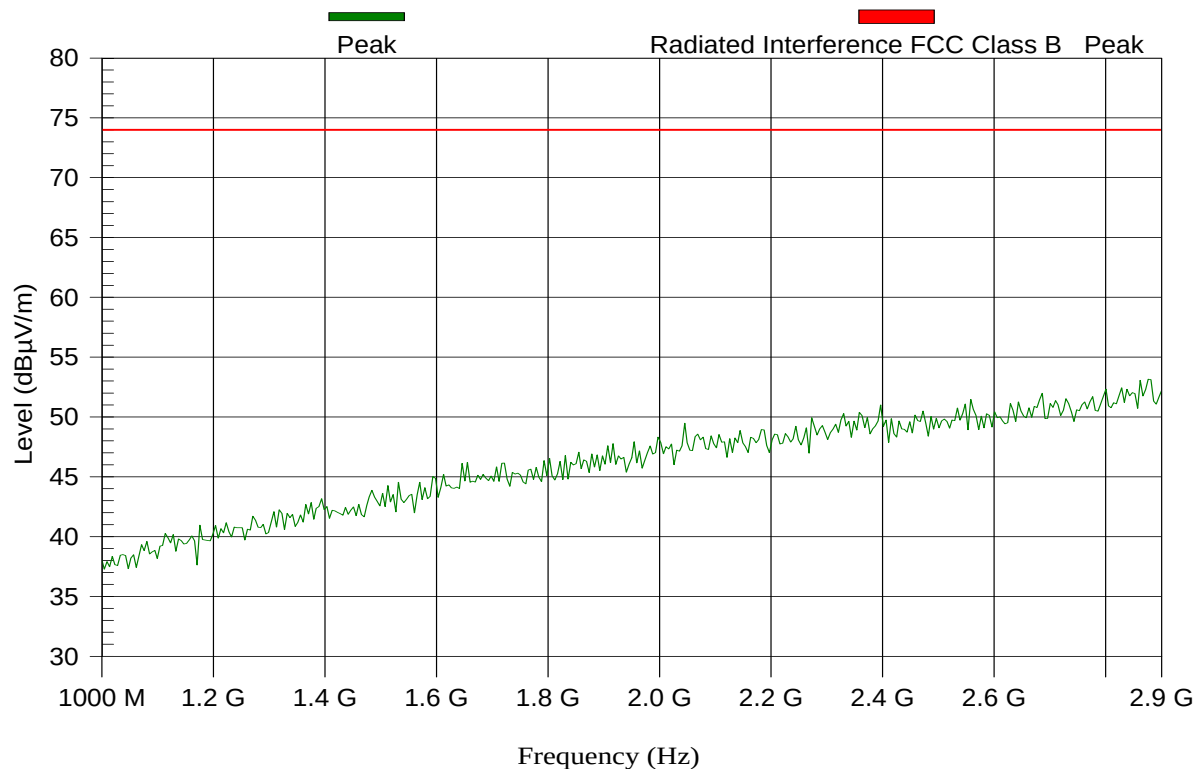
Test Results Plot No 39

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dBμV
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:38:55

Flat_23dBi; Peak; Low_5.730 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

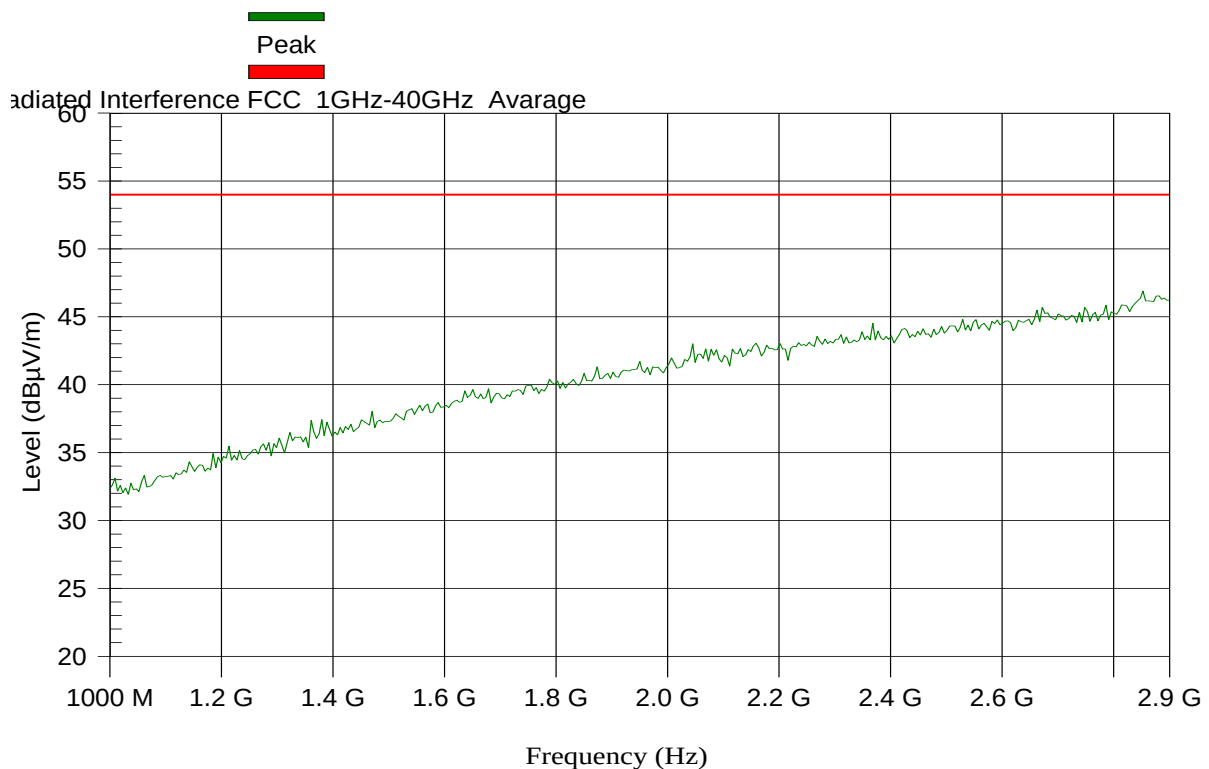
Test Results Plot No 40

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:40:58

Flat_23dBi; Avg; Mid_5.790 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

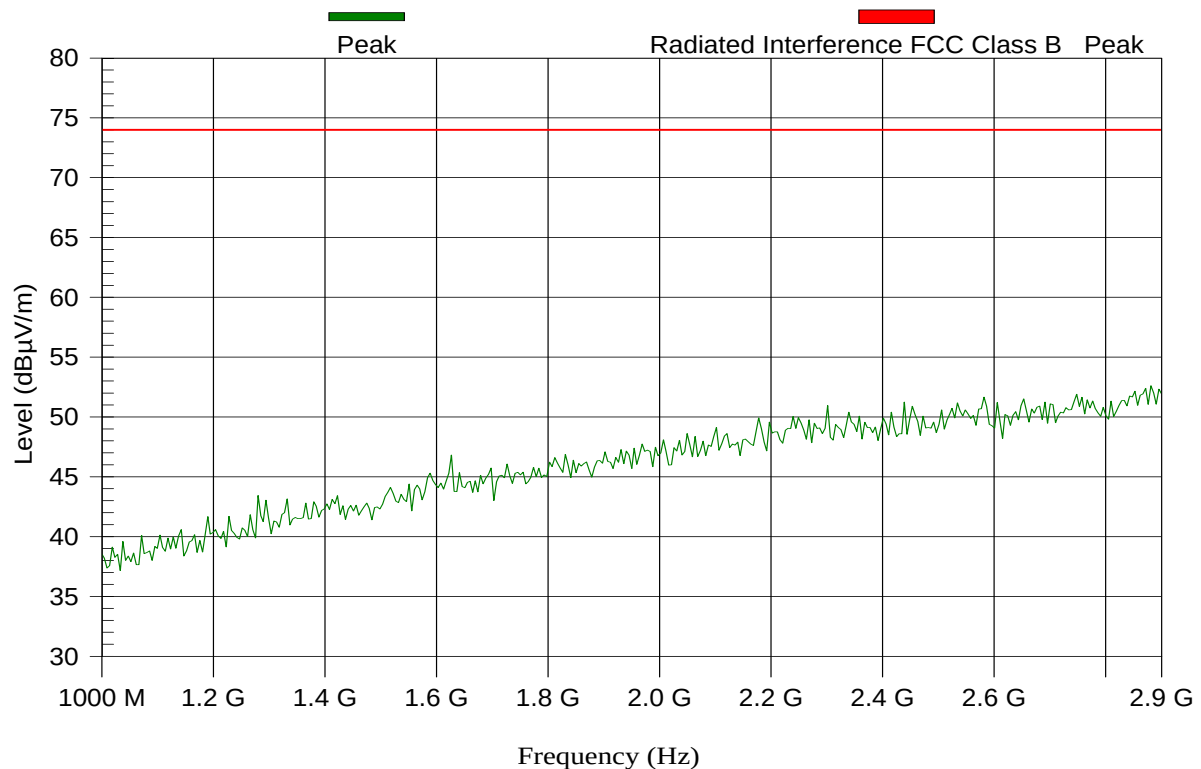
Test Results Plot No 41

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:43:06

Flat_23dBi; Peak; Mid_5.790 GHz, BW=5MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

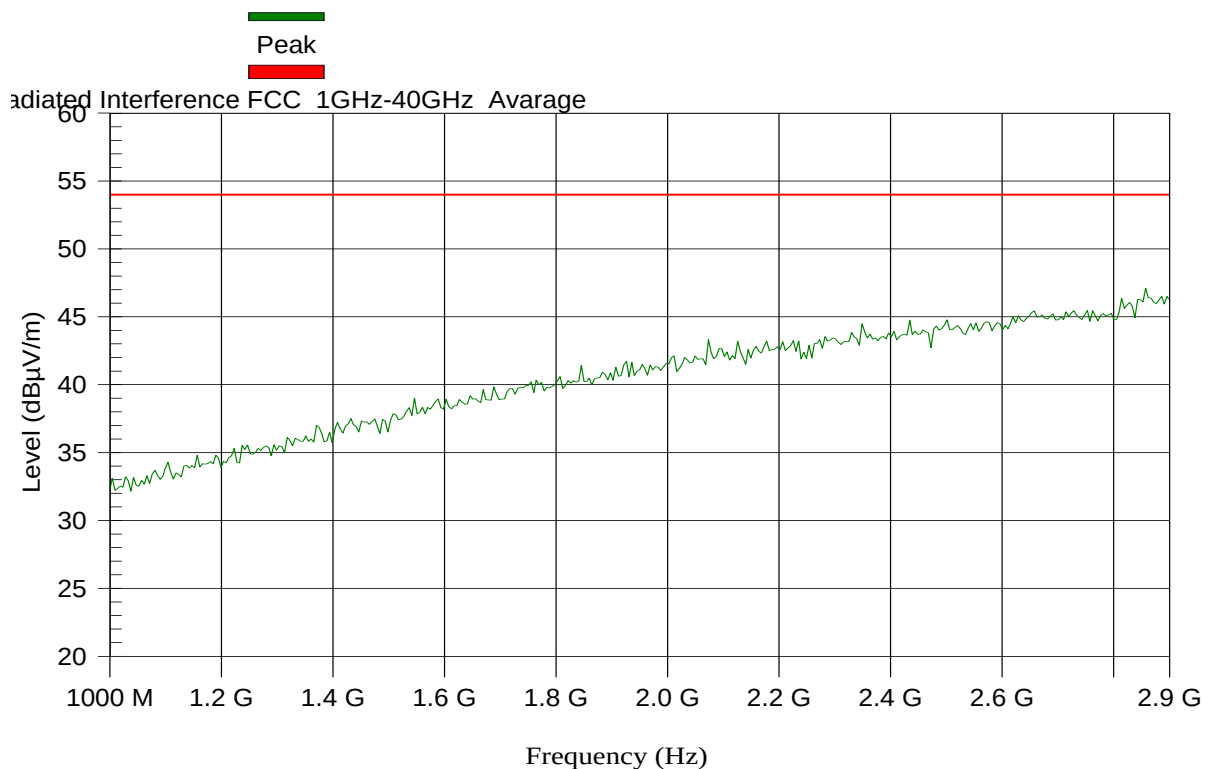
Test Results Plot No 42

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:45:47

Flat_23dBi; Avg; High_5.845 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

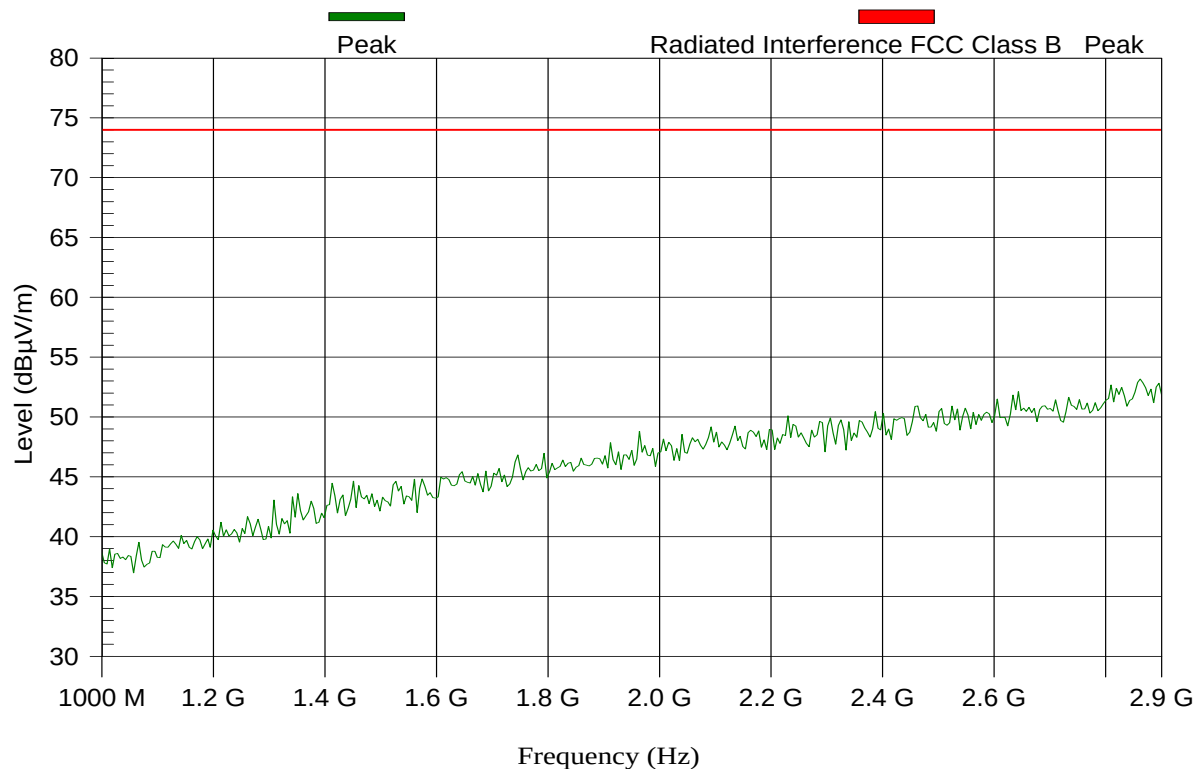
Test Results Plot No 43

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:50:29

Flat_23dBi; Peak; High_5.845 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

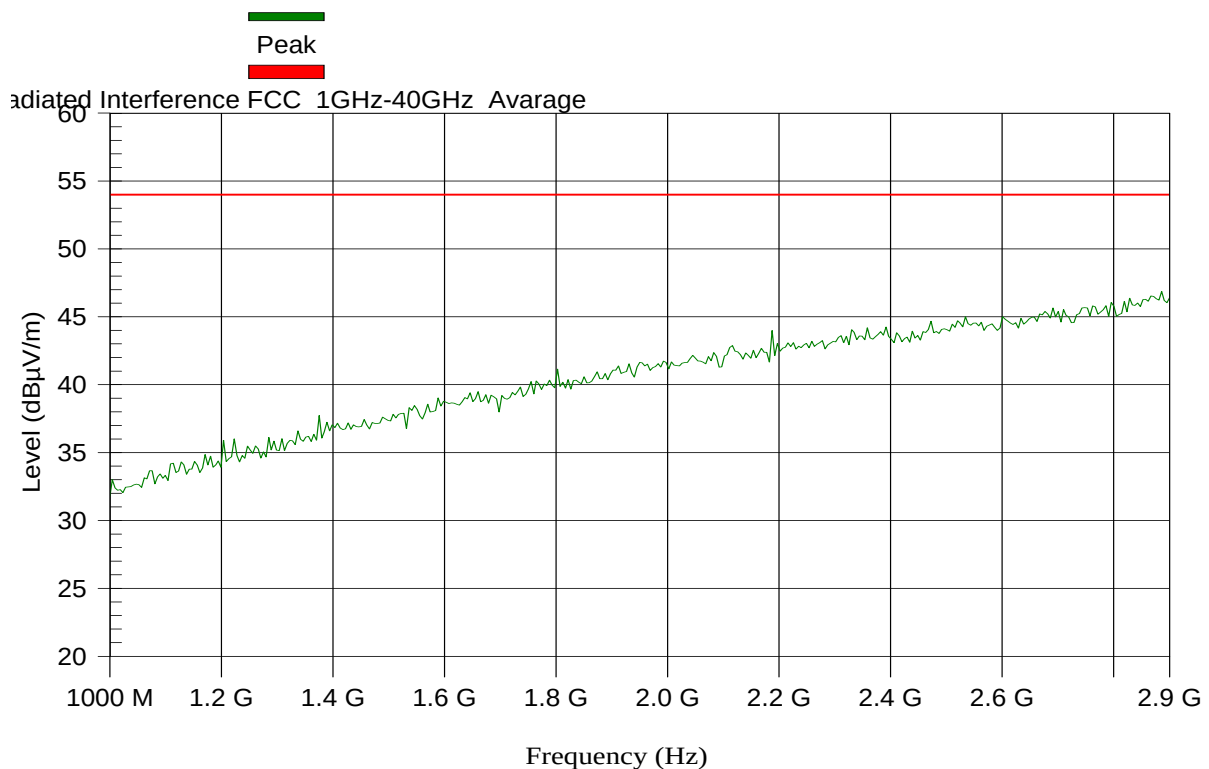
Test Results Plot No 44

1-2.9 GHz AVG Standby Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 11:02:34

Flat_23dBi; Standby AVG; High_5.845 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

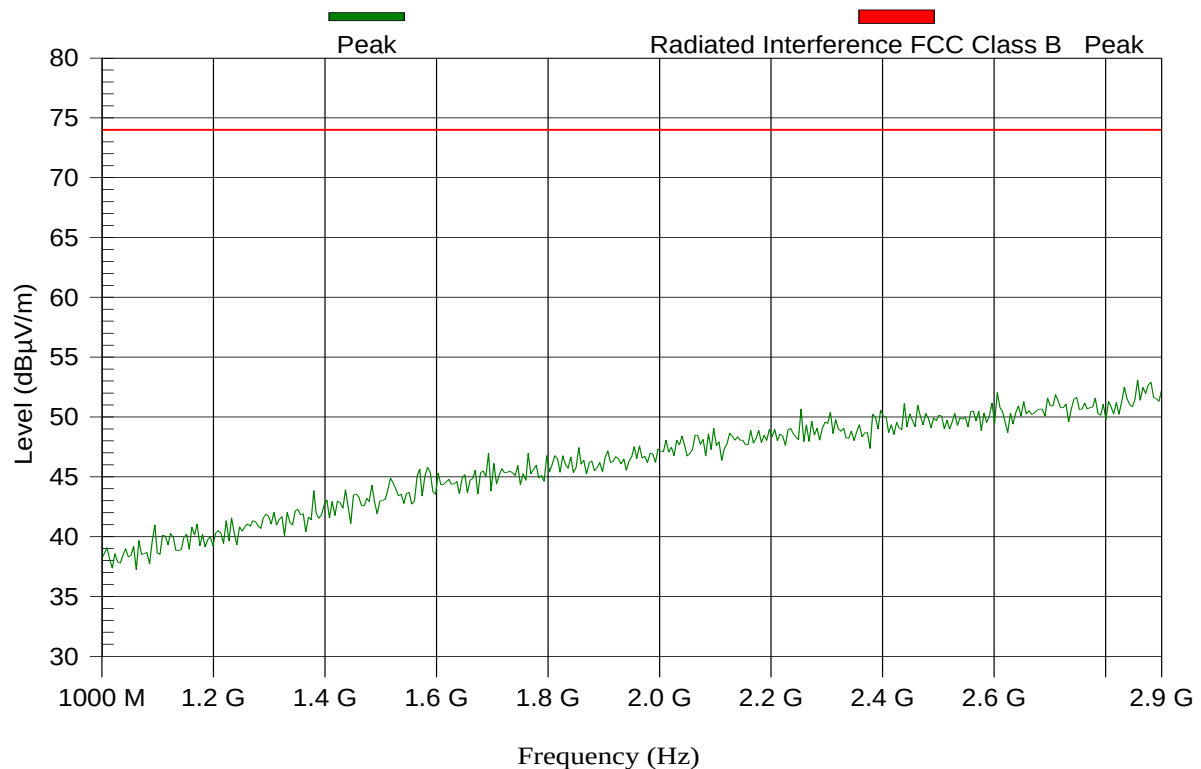
Test Results Plot No 45

1-2.9 GHz PEAK Standby Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:56:14

Flat_23dBi; Standby_Peak; High_5.845 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

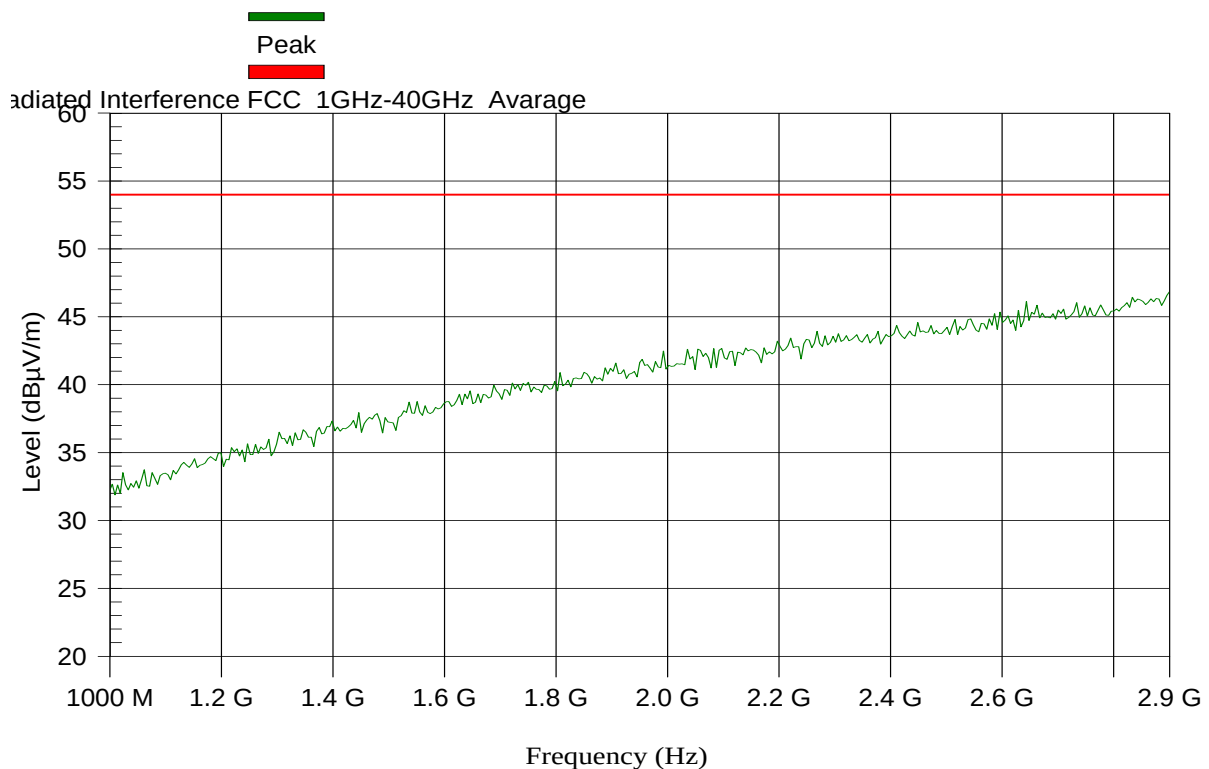
Test Results Plot No 46

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:32:08

Flat_23dBi; AVG; Low_5.735 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

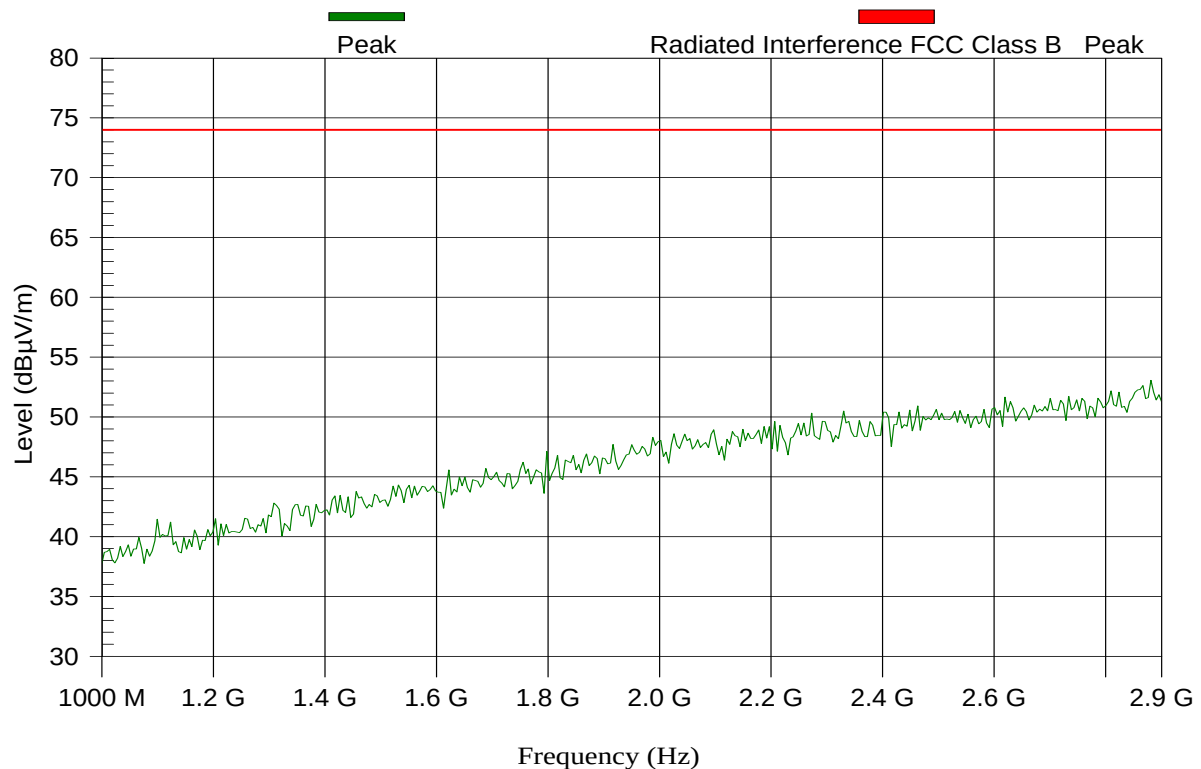
Test Results Plot No 47

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:33:54

Flat_23dBi; Peak; Low_5.735 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

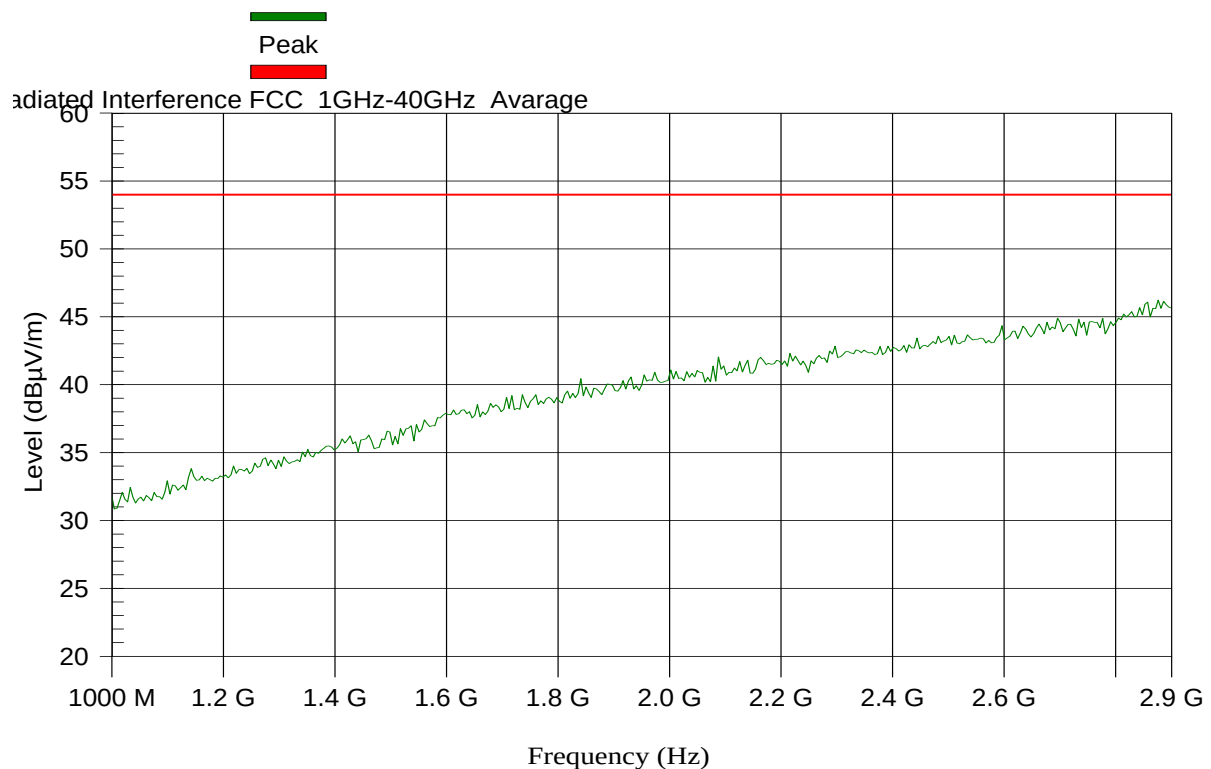
Test Results Plot No 48

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:27:23

Flat_23dBi; AVG; Mid_5.79 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

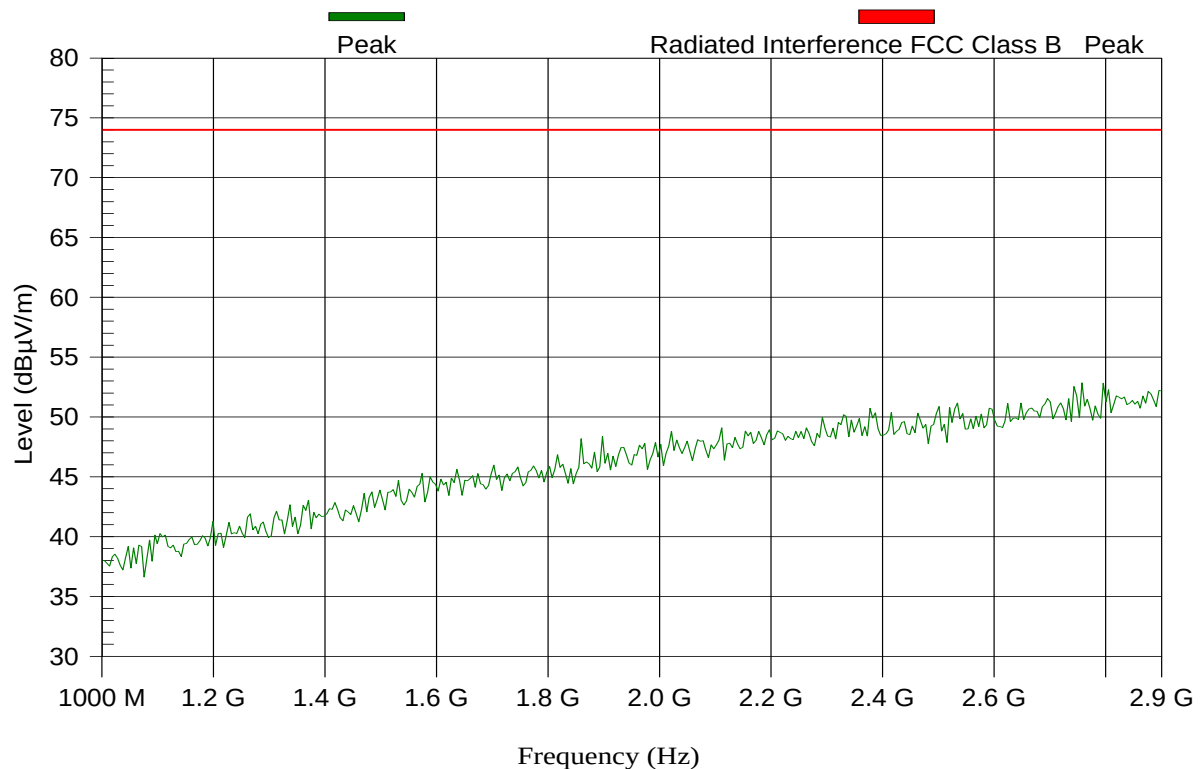
Test Results Plot No 49

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dBμV
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:29:58

Flat_23dBi; Peak; Mid_5.79 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

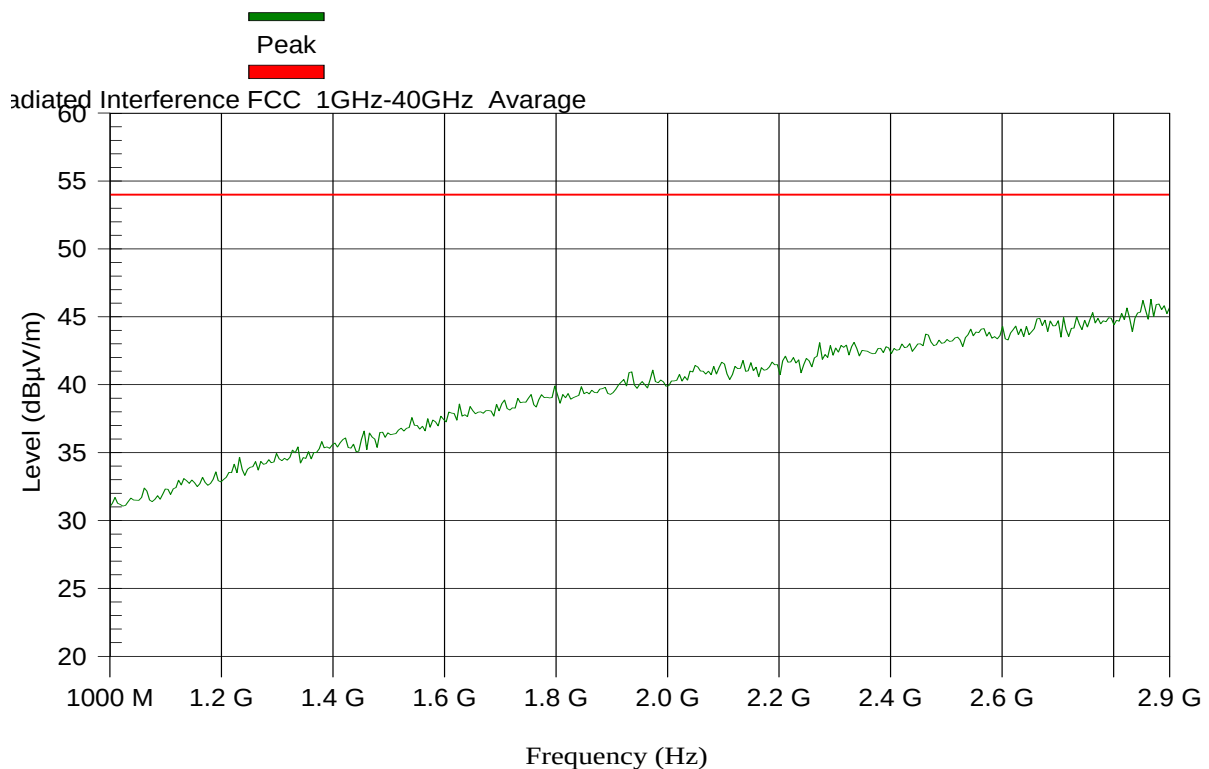
Test Results Plot No 50

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:23:24

Flat_23dB μ i; AVG; High_5.84 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

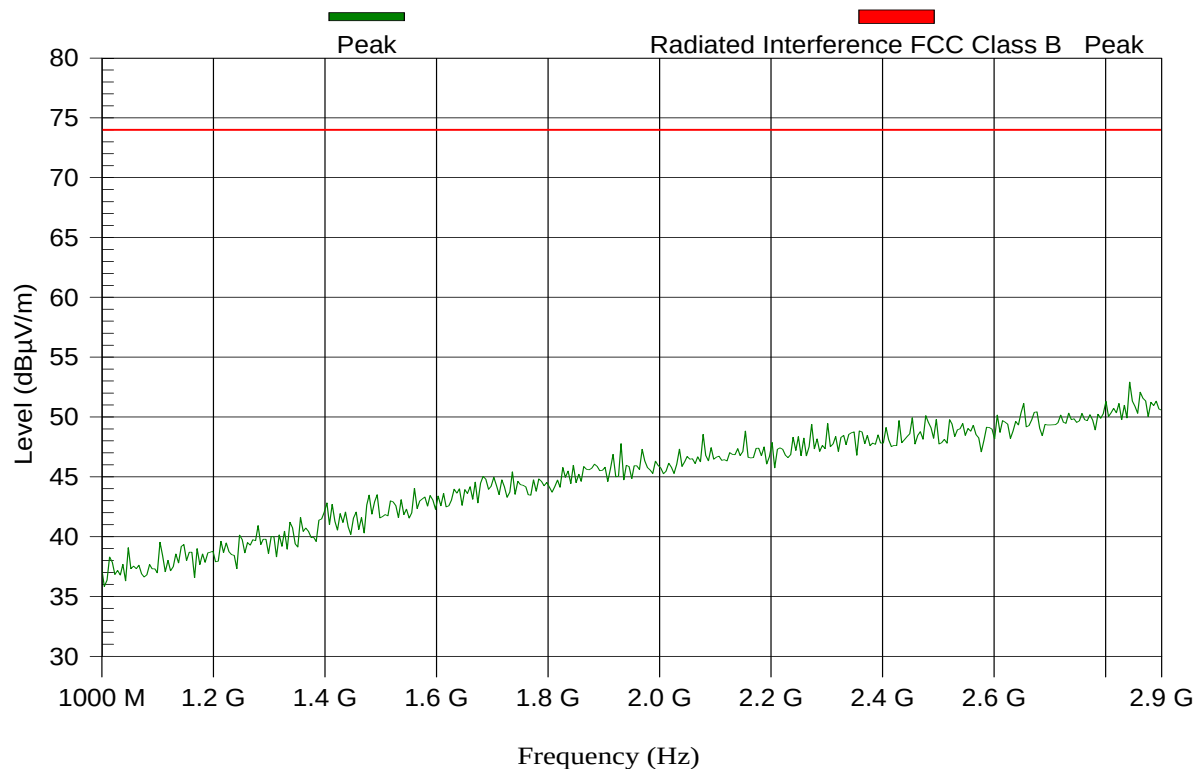
Test Results Plot No 51

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:25:01

Flat_23dBi; Peak; High_5.84 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

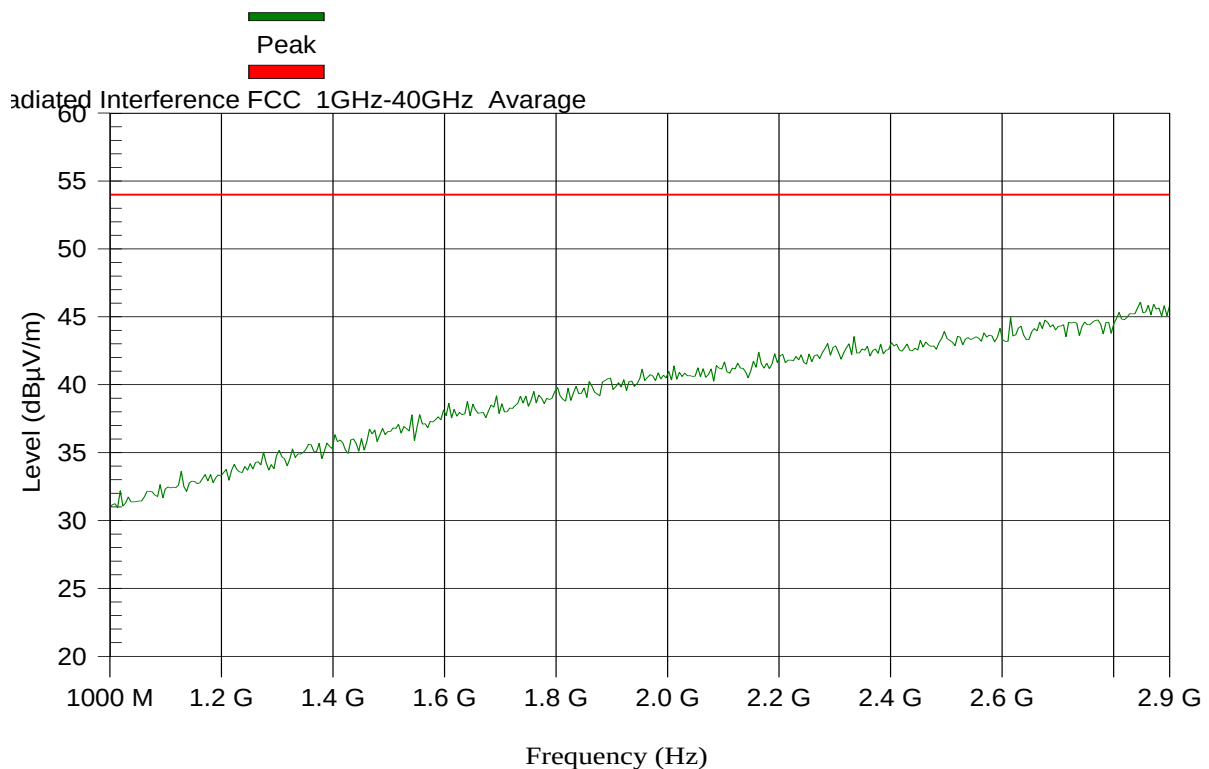
Test Results Plot No 52

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:07:42

Flat_23dBi; AVG; Low_5.735 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

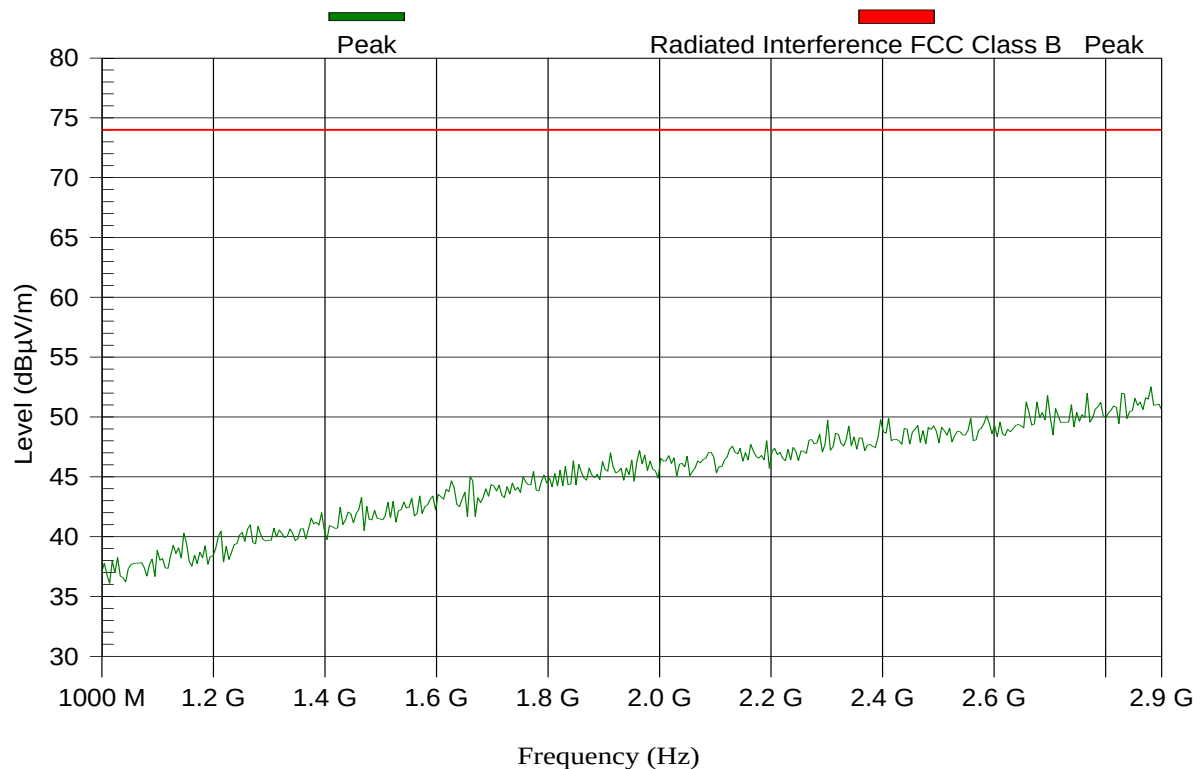
Test Results Plot No 53

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dBμV
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:09:49

Flat_23dBi; Peak; Low_5.735 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

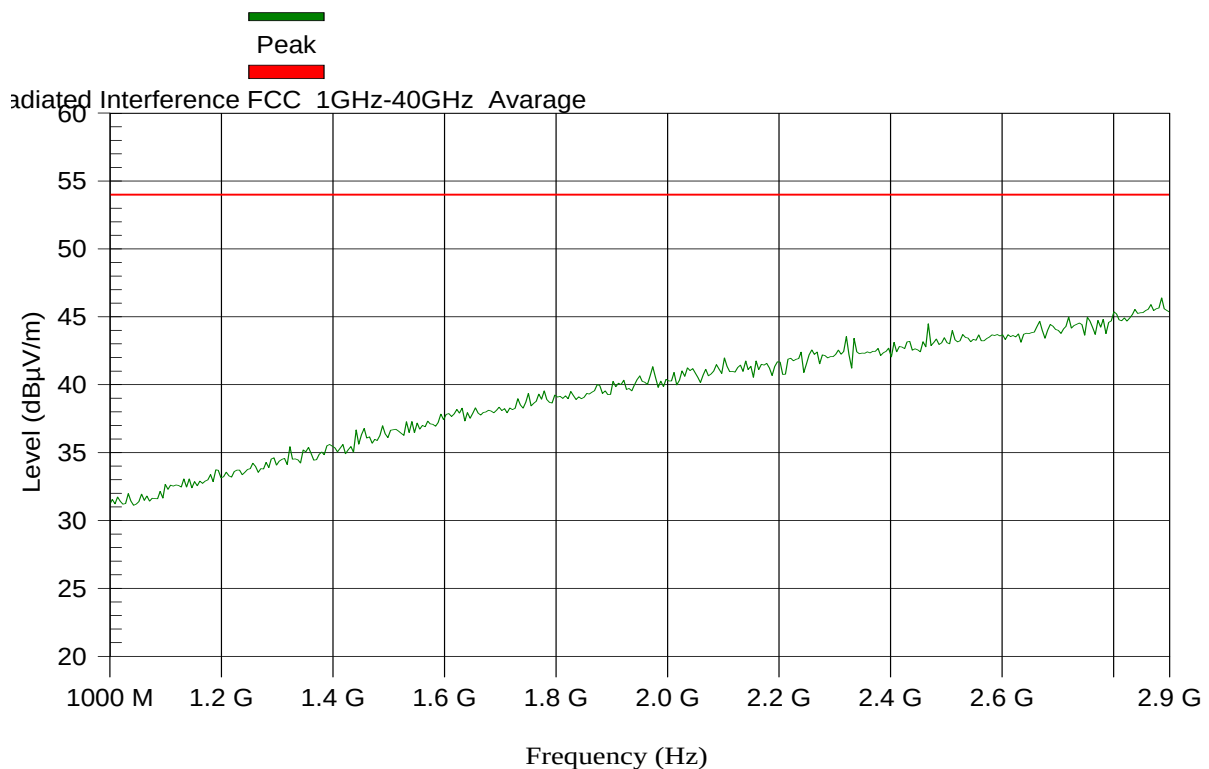
Test Results Plot No 54

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:11:36

Flat_23dB μ i; AVG; Mid_5.790 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

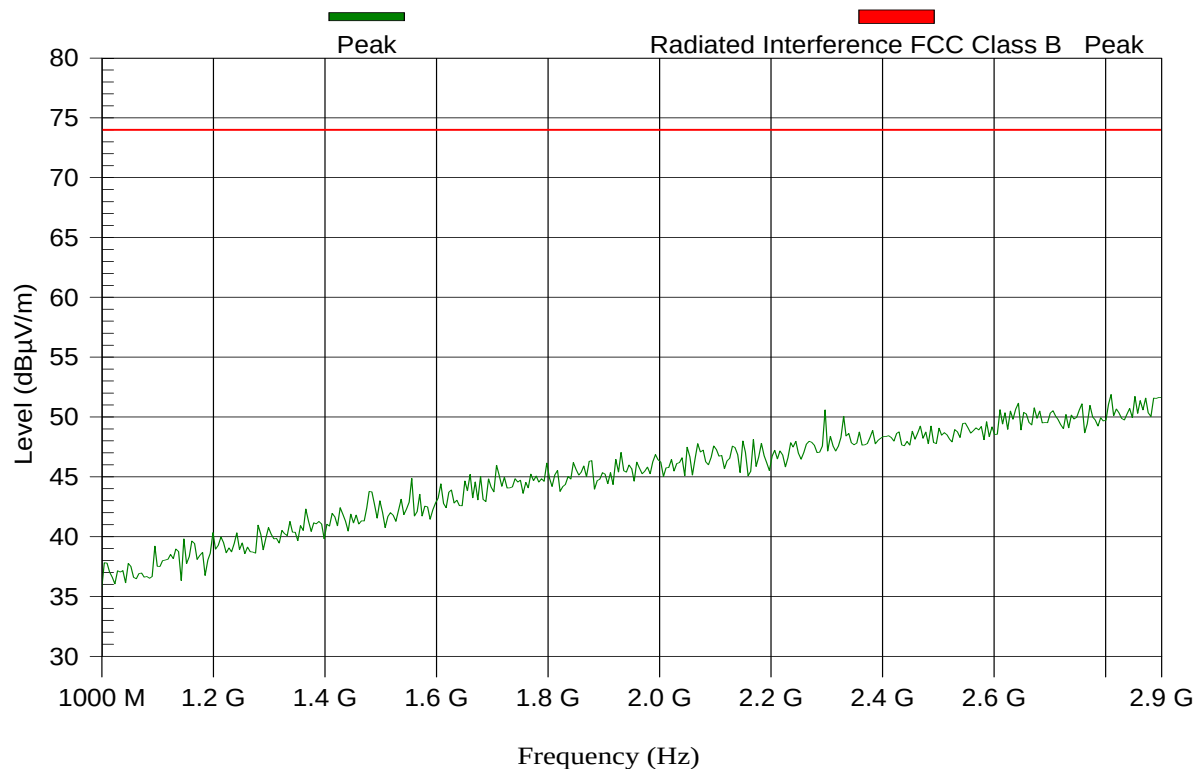
Test Results Plot No 55

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dBμV
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:13:22

Flat_23dBi; Peak; Mid_5.790 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

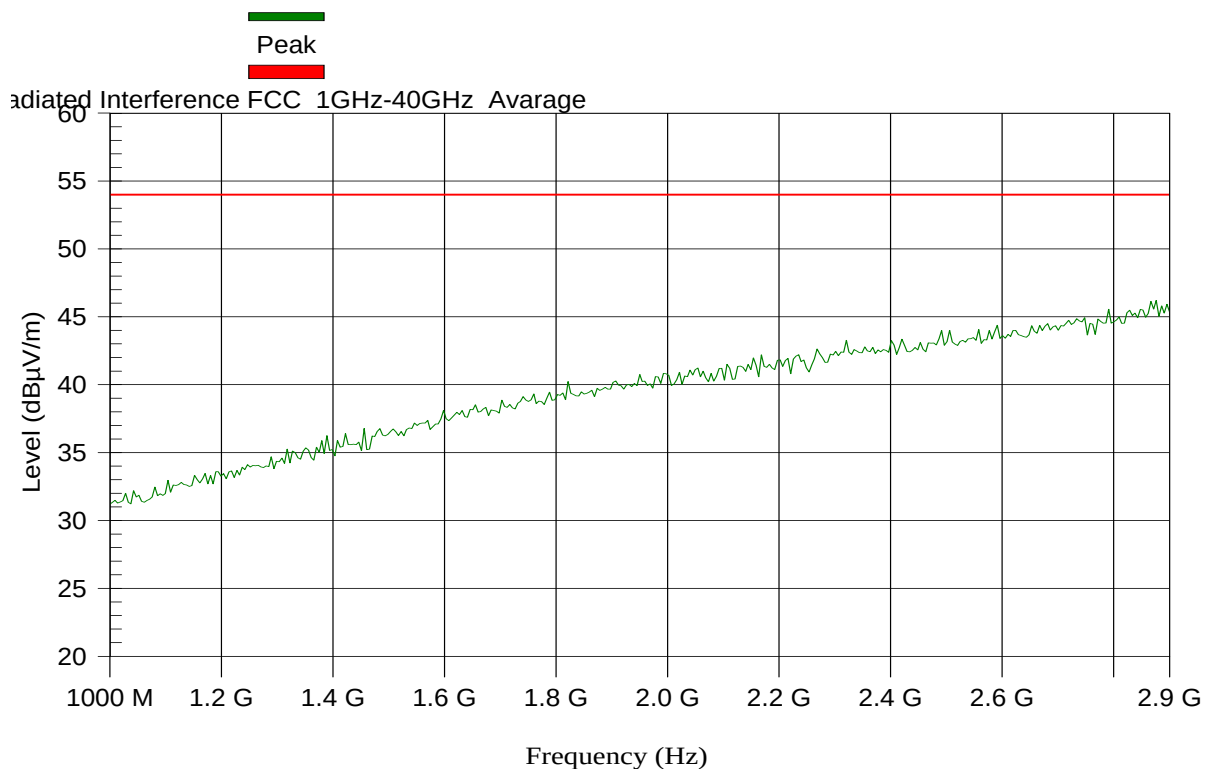
Test Results Plot No 56

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:16:31

Flat_23dBi; AVG; High_5.84 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

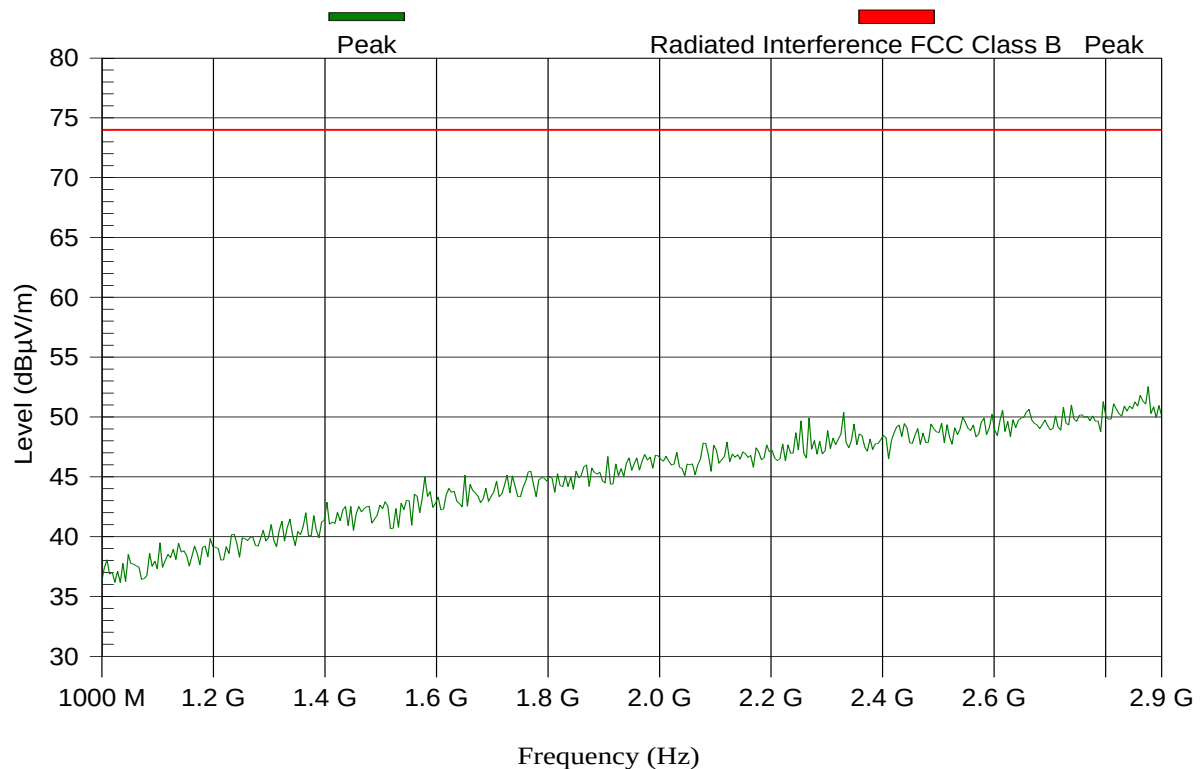
Test Results Plot No 57

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:19:10

Flat_23dBi; Peak; High_5.84 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

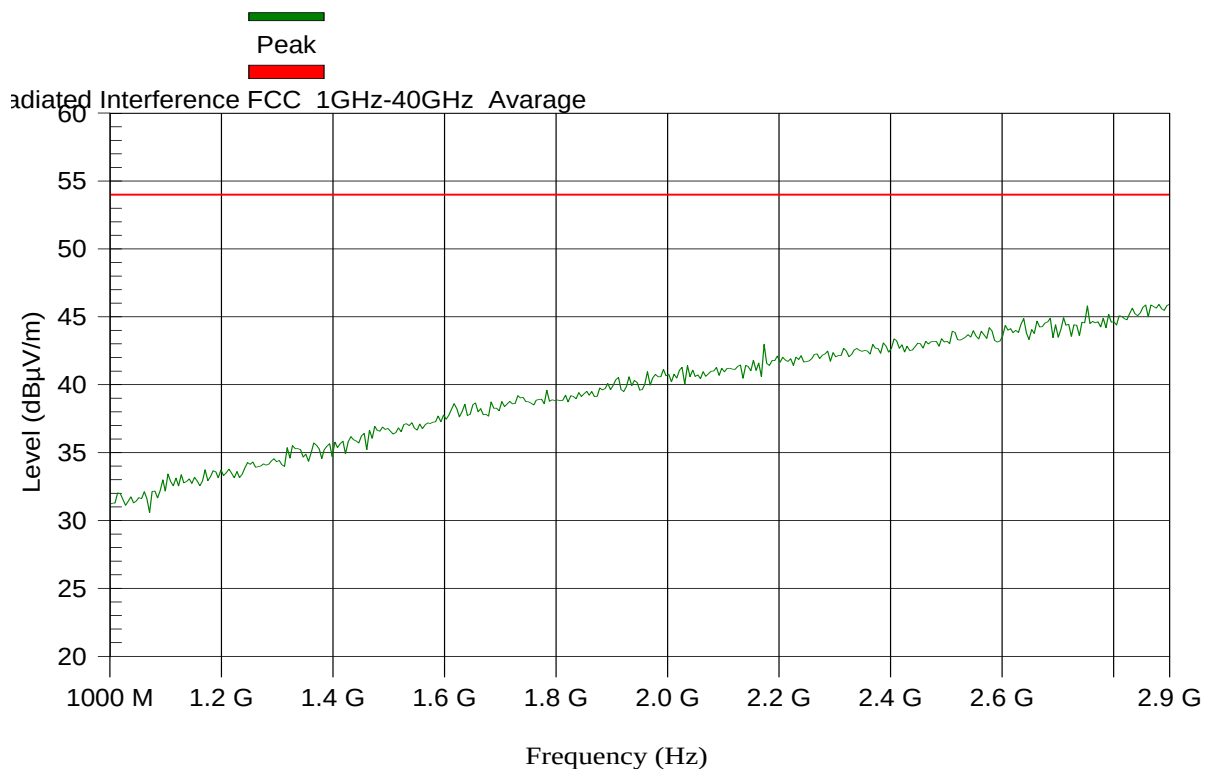
Test Results Plot No 58

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:03:49

Flat_23dBi; AVG; Low_5.745 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

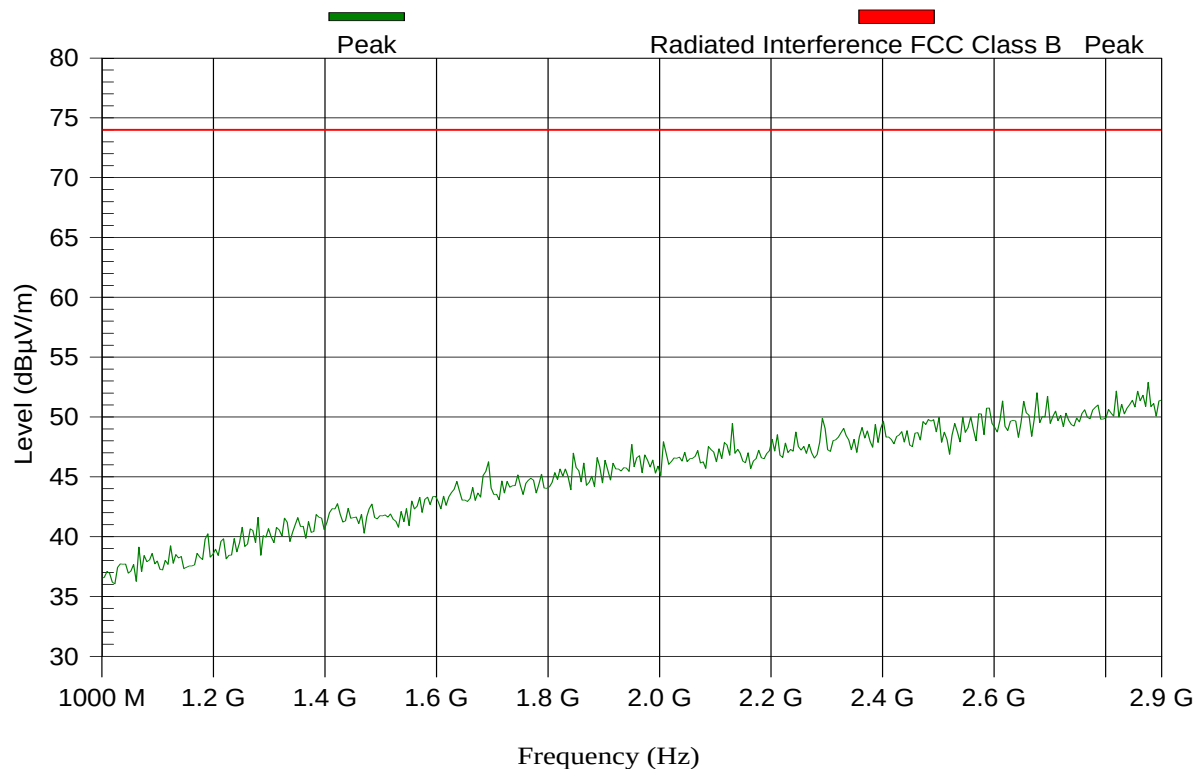
Test Results Plot No 59

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:06:04

Flat_23dBi; Peak; Low_5.745 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

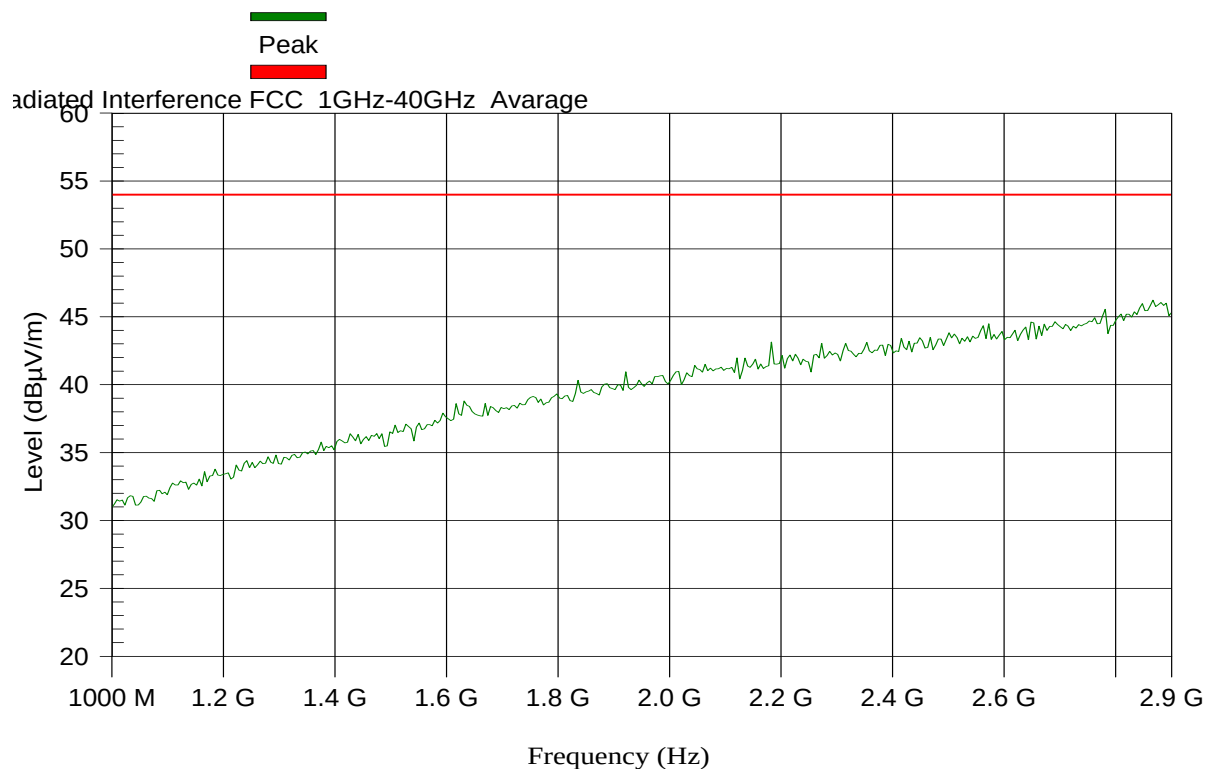
Test Results Plot No 60

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:00:13

Flat_23dBi; AVG; Mid_5.79 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

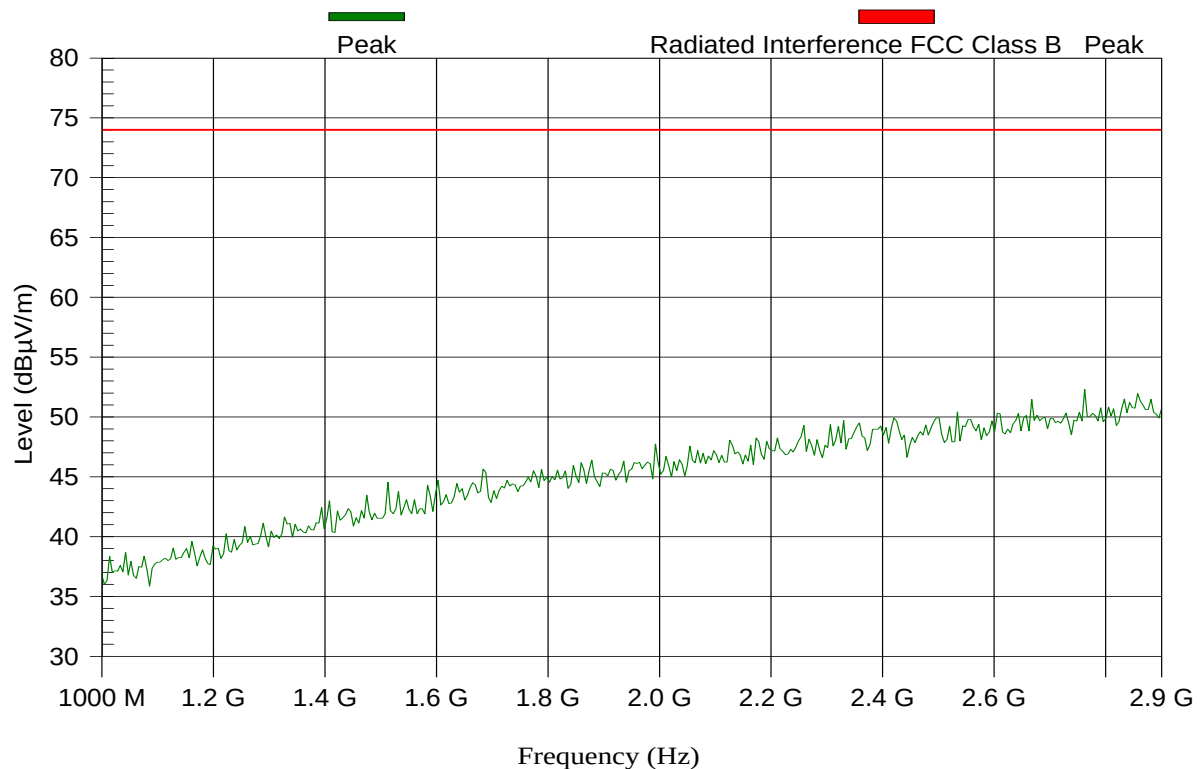
Test Results Plot No 61

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dBμV
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 10:02:06

Flat_23dBi; Peak; Mid_5.79 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

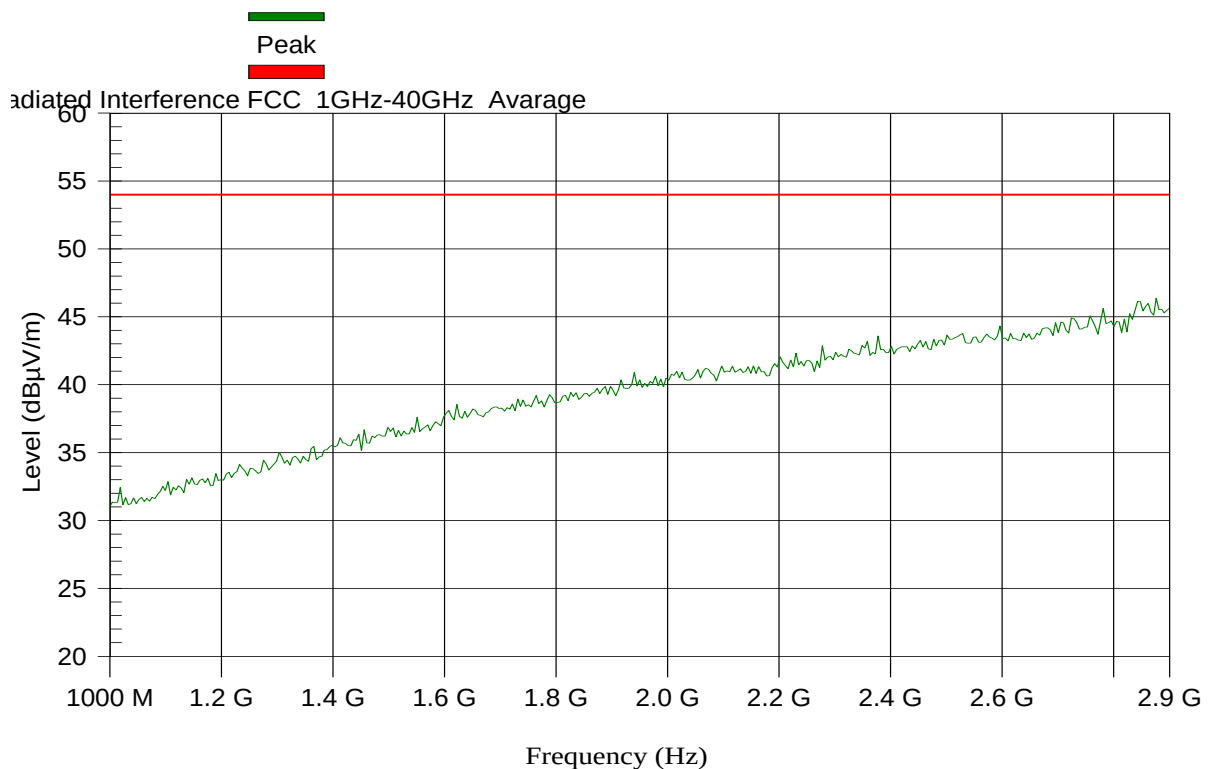
Test Results Plot No 62

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 09:55:04

Flat_23dB μ i; AVG; High_5.83 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

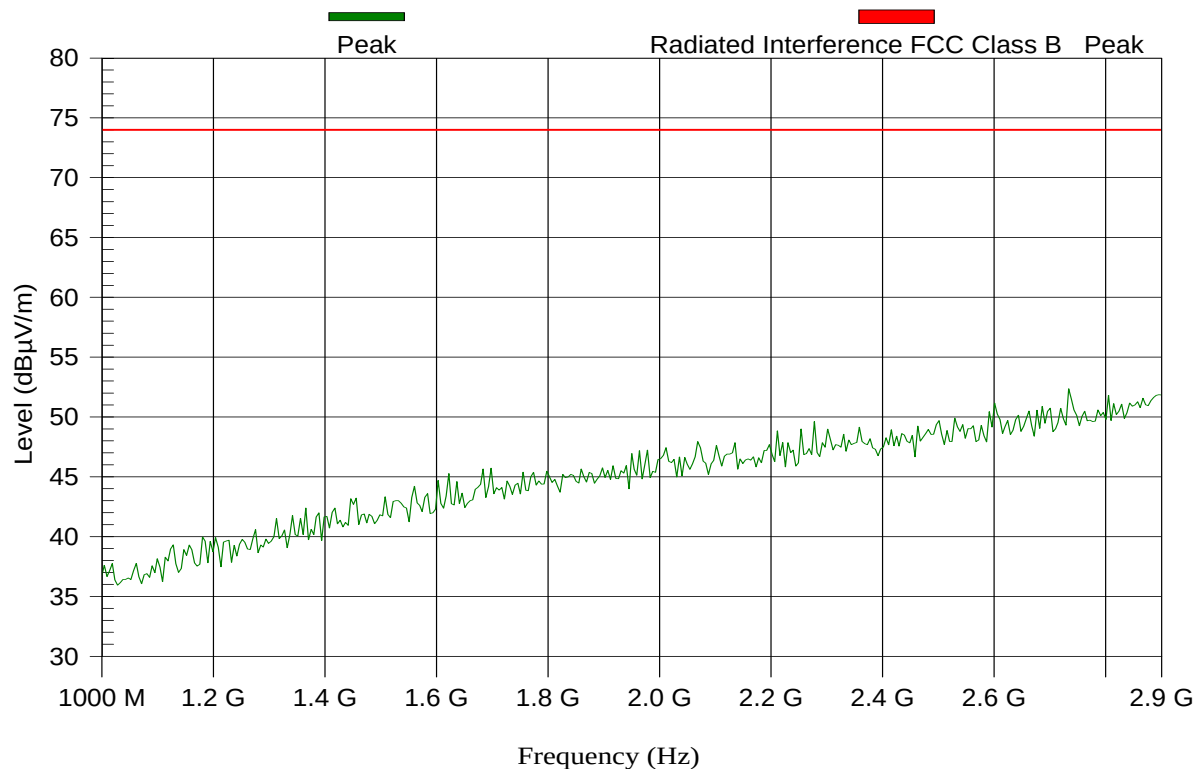
Test Results Plot No 63

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 90 dBμV
Date of Test:	02.03.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: 02 March 2010 09:58:04

Flat_23dBi; Peak; High_5.83 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

5.9.5. Flat_23dBi_Antenna_2.9 GHz - 5.46 GHz

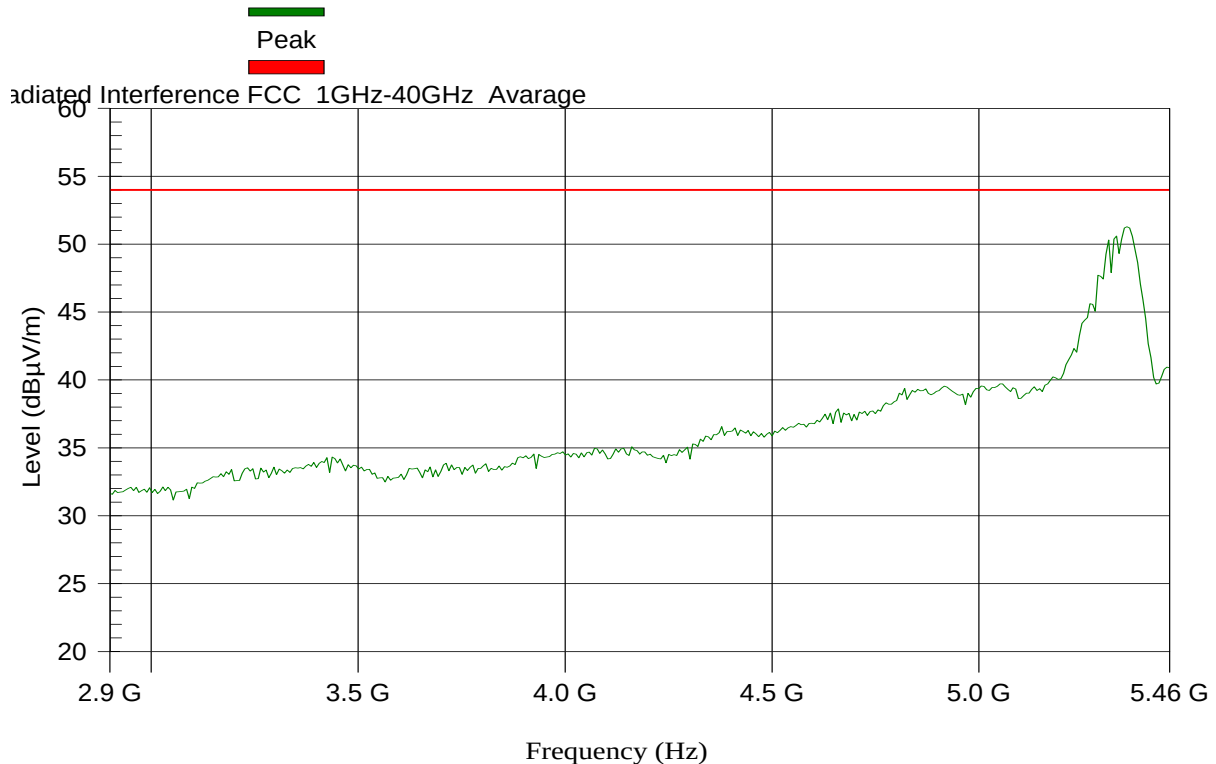
Test Results Plot No 64

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	60 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 11.15 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 4:31:14 PM

AVG; Low_5730 MHz-BW=5 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5357.6	51.3	54		0	1	H

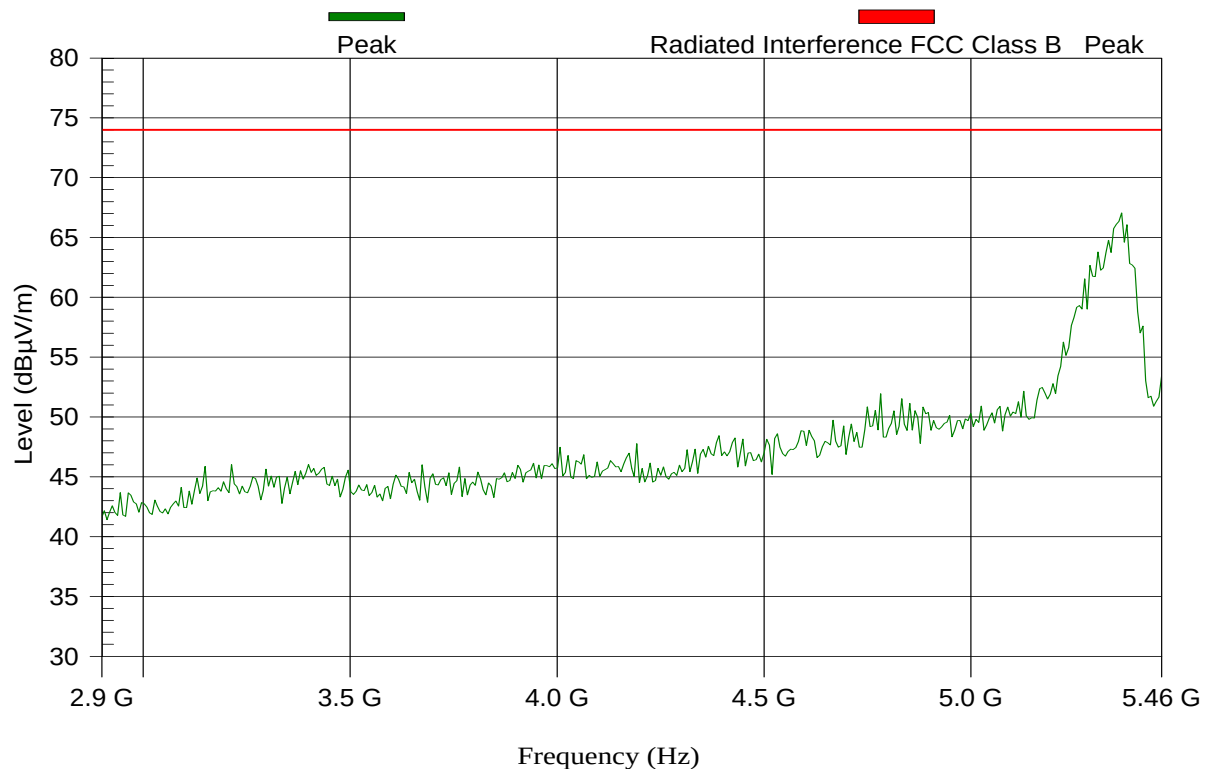
Test Results Plot No 65

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	Auto: 90 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 4:09:00 PM

Peak; Low_5730MHz-BW=5MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

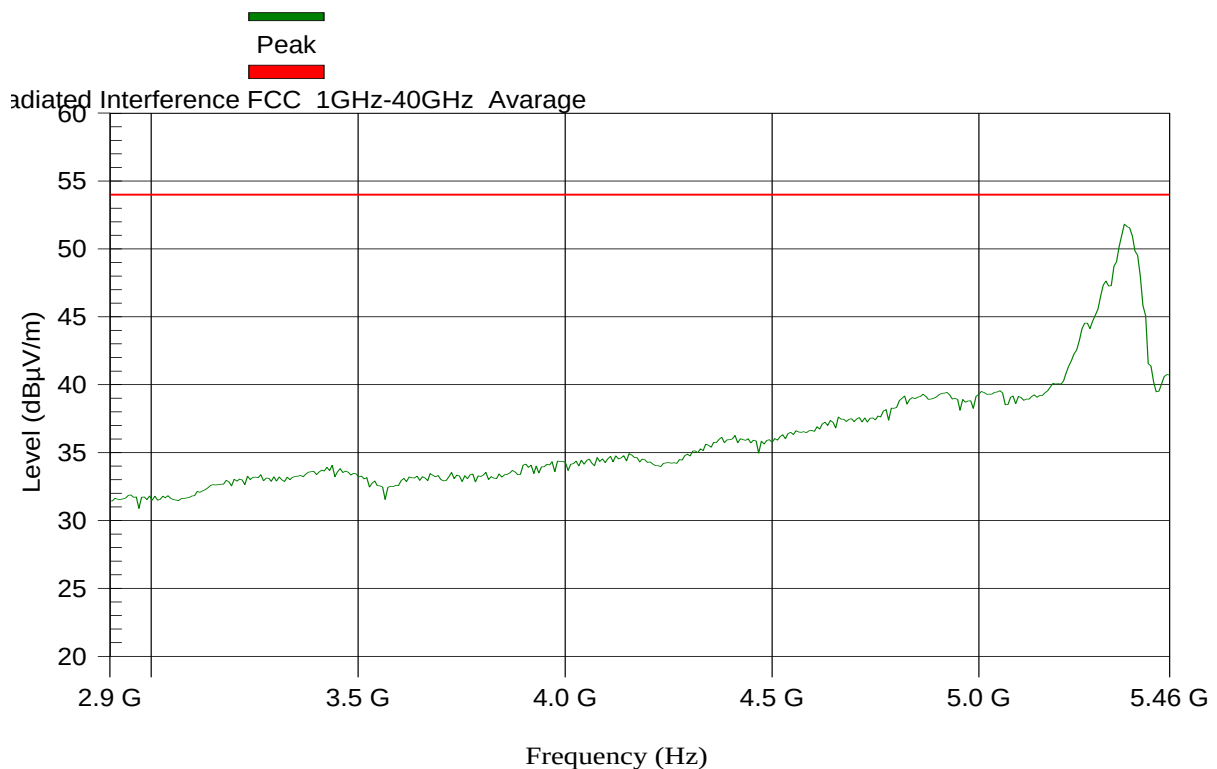
Test Results Plot No 66

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	60 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 33.44 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 4:39:55 PM

AVG; MID_5790 MHz-BW=5 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5351.2	51.8	54		0	1	H

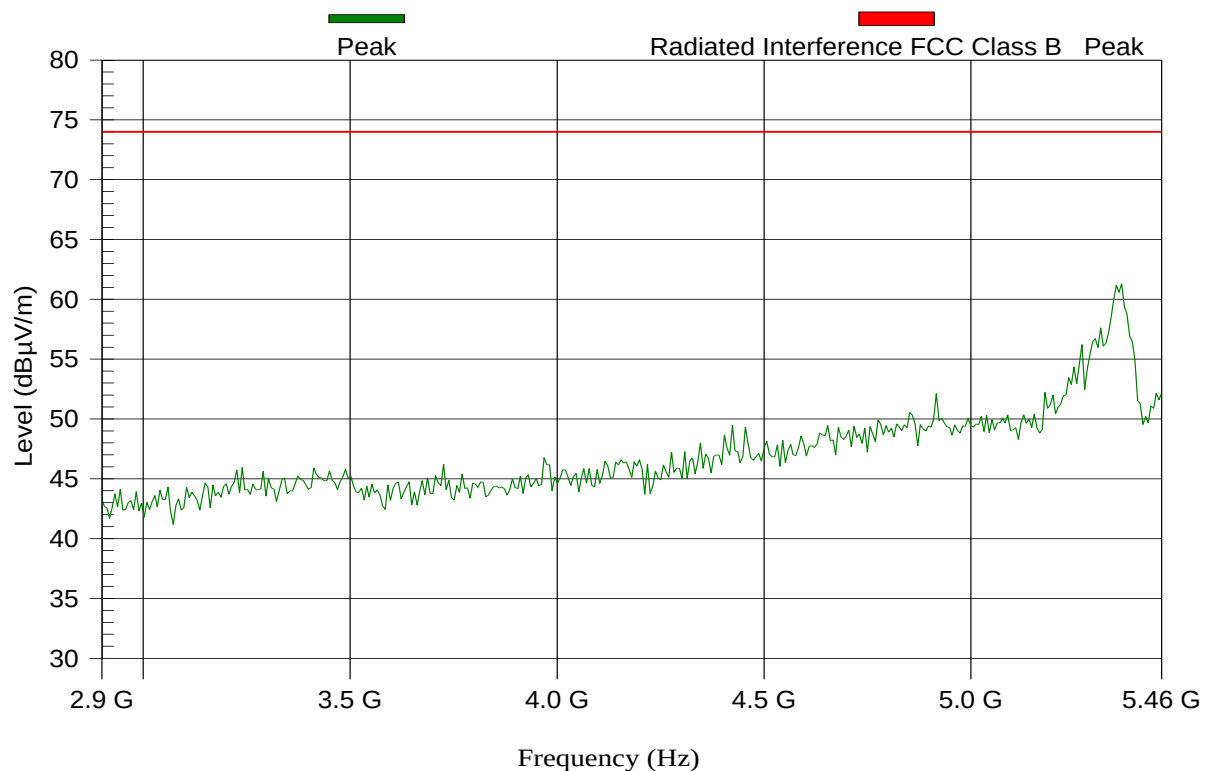
Test Results Plot No 67

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	Auto: 90 dBμV
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 4:41:57 PM

PEAK; MID_5790 MHz-BW=5 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

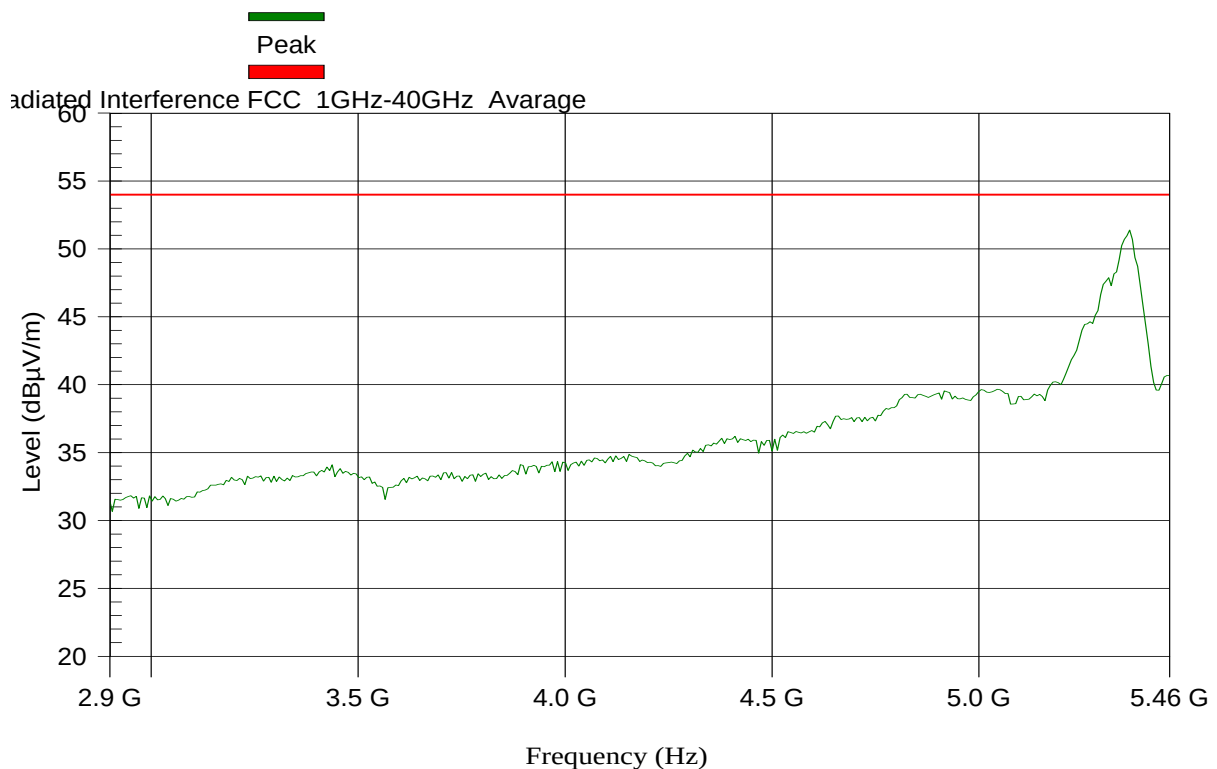
Test Results Plot No 68

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	60 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 33.44 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 4:56:08 PM

AVG; HIGH_5845 MHz-BW=5 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5364	51.4	54		0	1	H

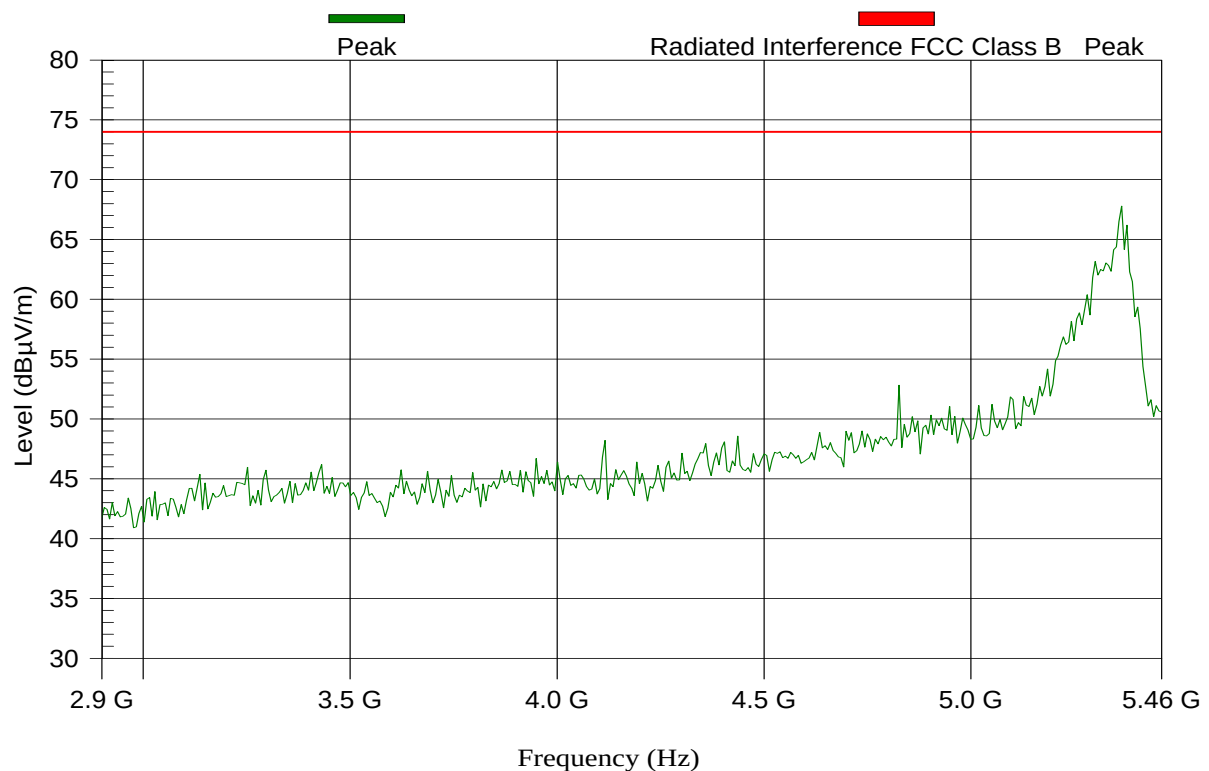
Test Results Plot No 69

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	Auto: 90 dBμV
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:00:05 PM

PEAK; HIGH_5845 MHz-BW=5 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

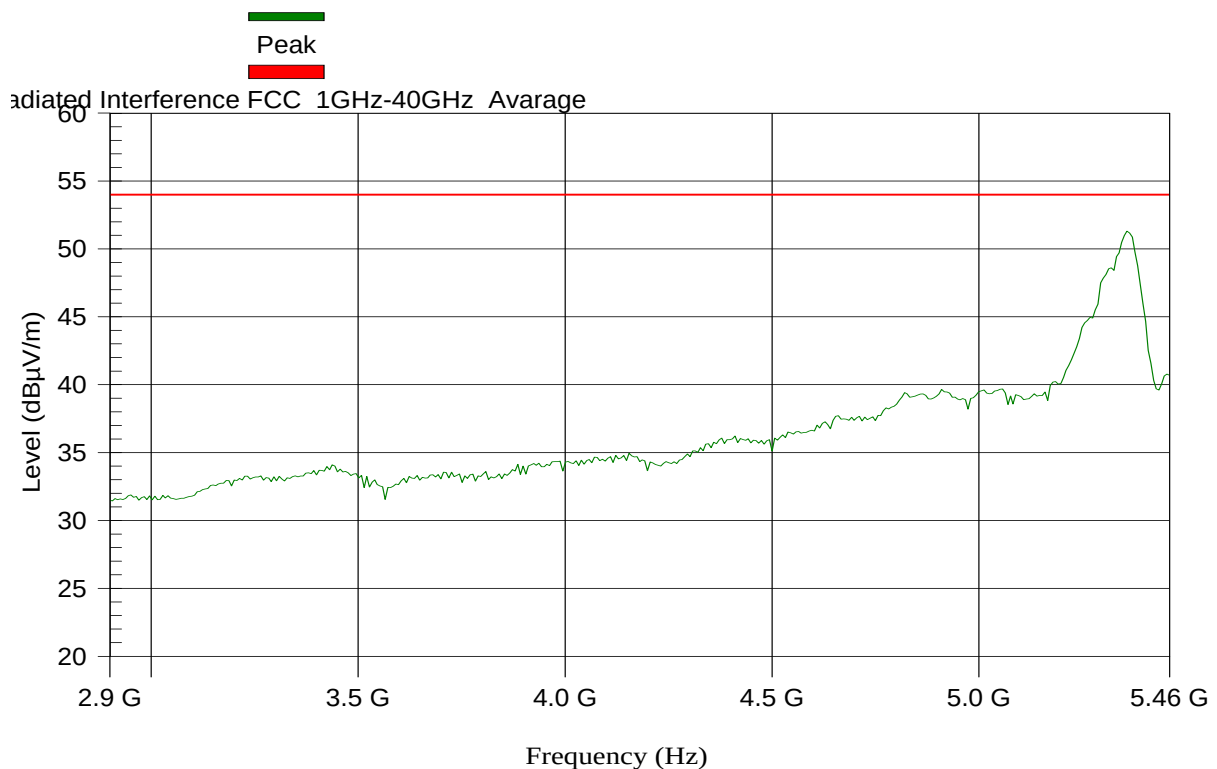
Test Results Plot No 70

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	60 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 33.44 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:07:49 PM

AVG; Low_5735 MHz-BW=10 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5357.6	51.3	54		0	1	H

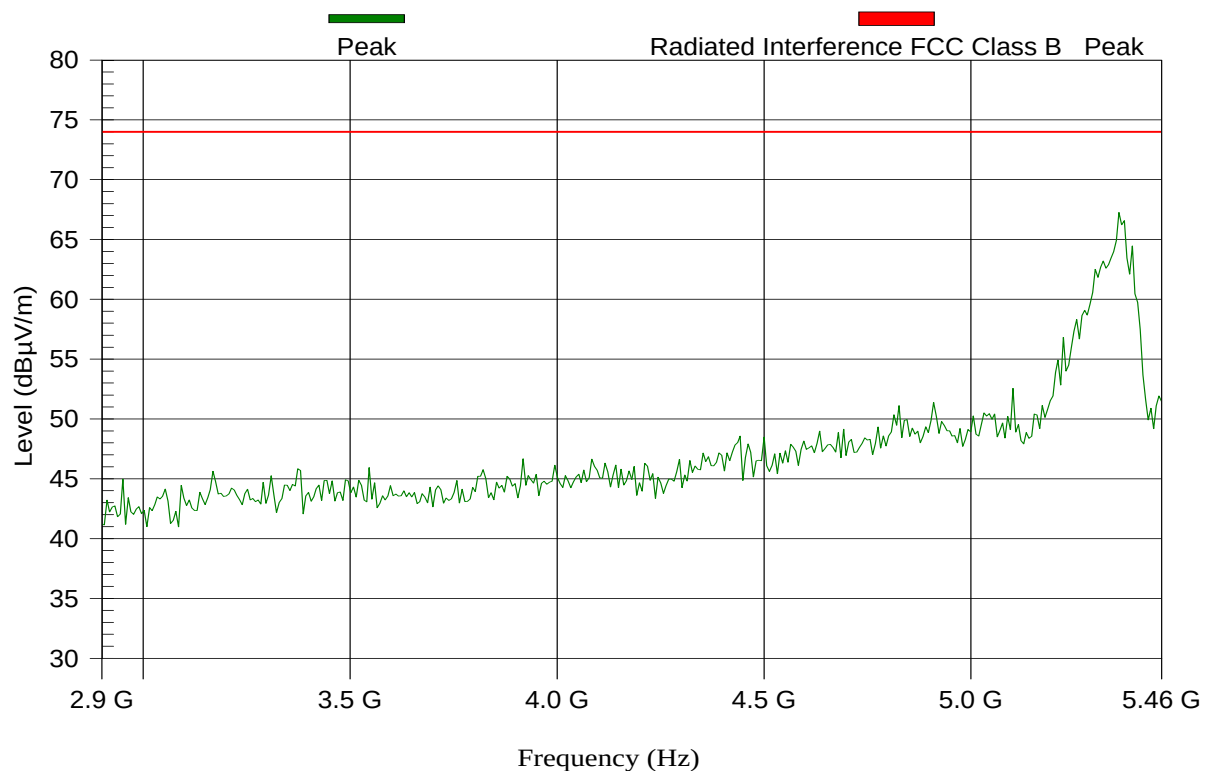
Test Results Plot No 71

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	Auto: 90 dBμV
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:13:49 PM

PEAK; Low_5735 MHz-BW=10 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

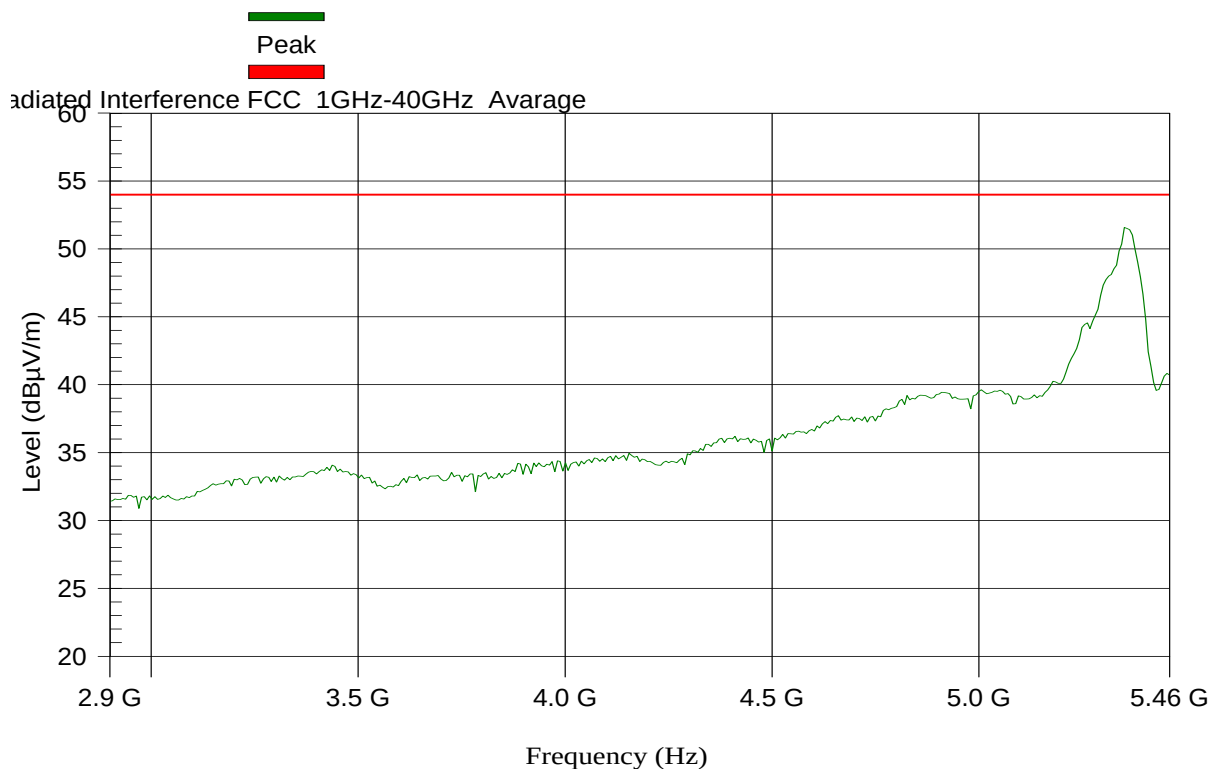
Test Results Plot No 72

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	60 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 33.44 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:19:06 PM

AVG; MID_5790 MHz-BW=10 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5351.2	51.6	54		0	1	H

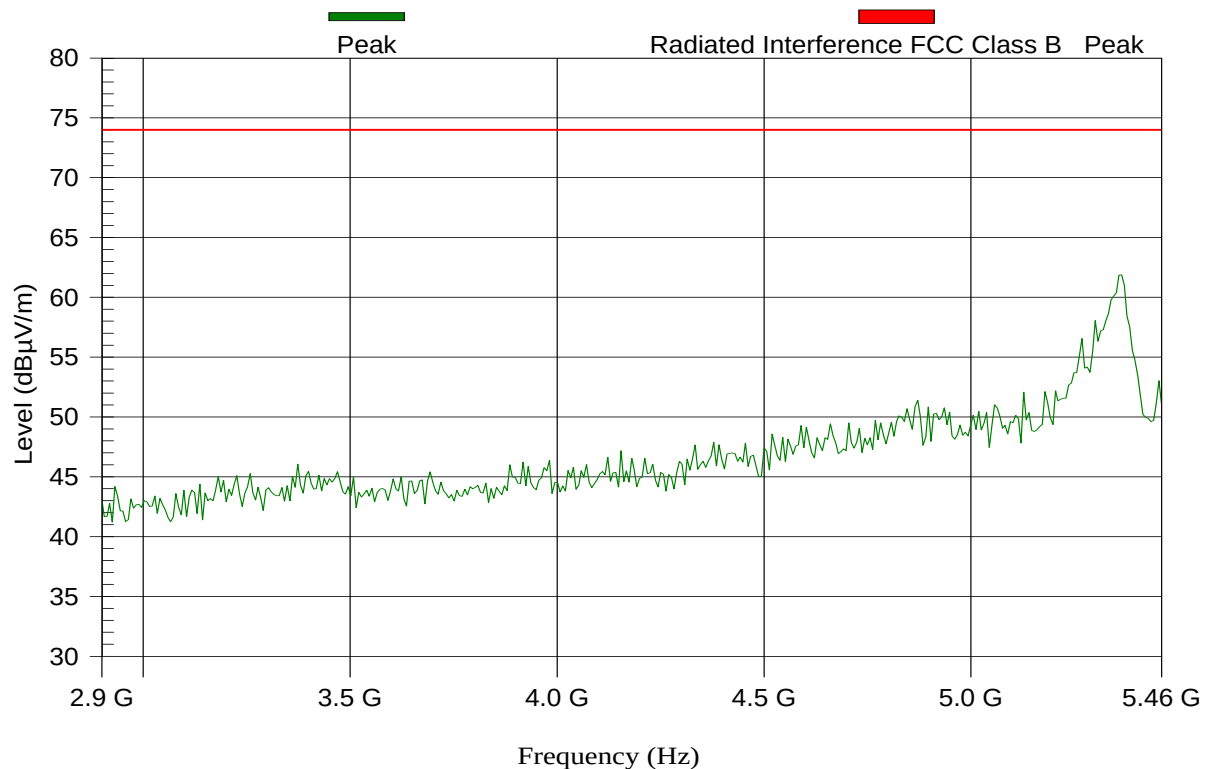
Test Results Plot No 73

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	Auto: 90 dBμV
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:20:59 PM

PEAK; MID_5790 MHz-BW=10 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

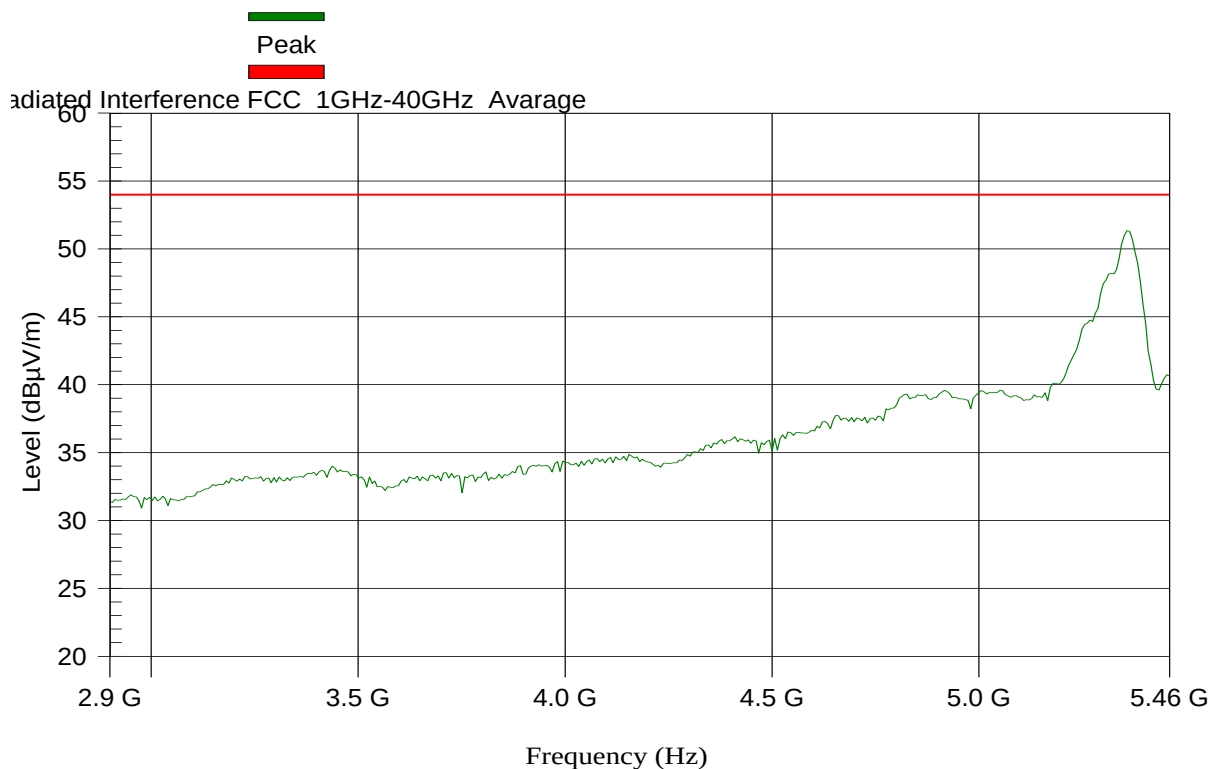
Test Results Plot No 74

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	60 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 33.44 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:27:57 PM

AVG; HIGH_5840 MHz-BW=10 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5357.6	51.4	54		0	1	H

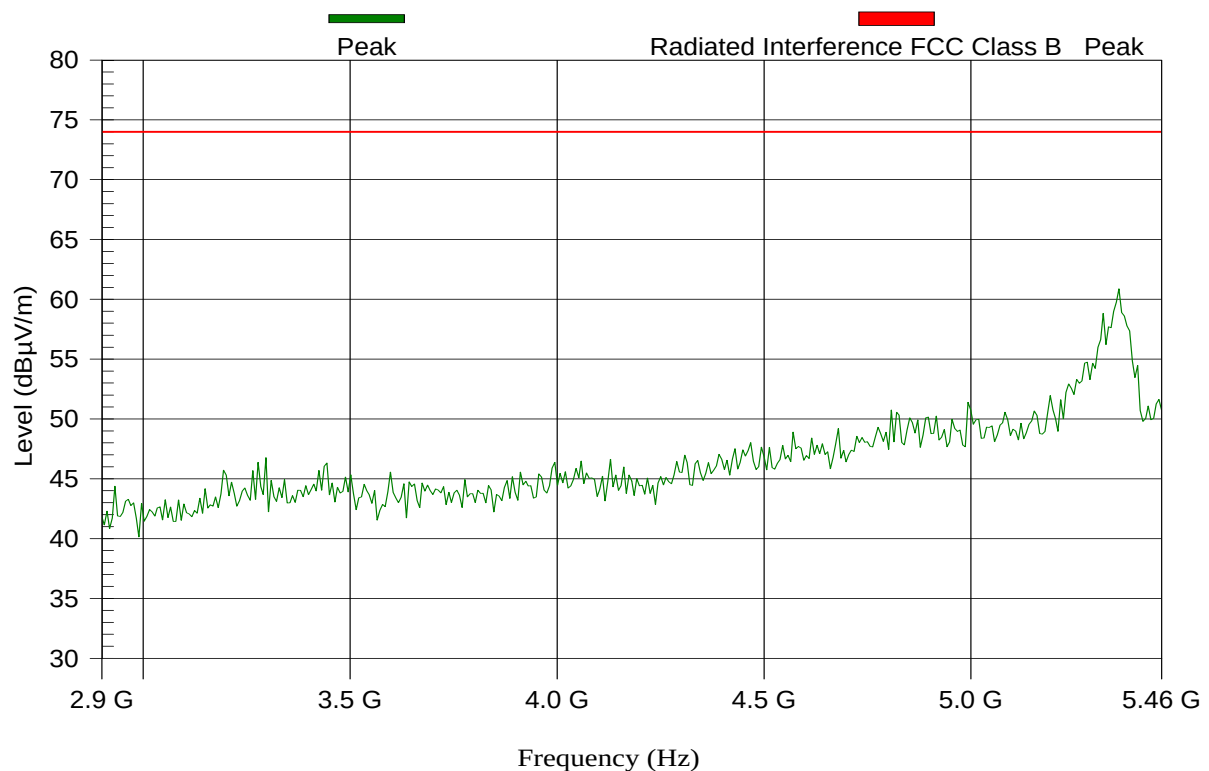
Test Results Plot No 75

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	Auto: 90 dBμV
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:31:01 PM

PEAK; HIGH_5840 MHz-BW=10 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

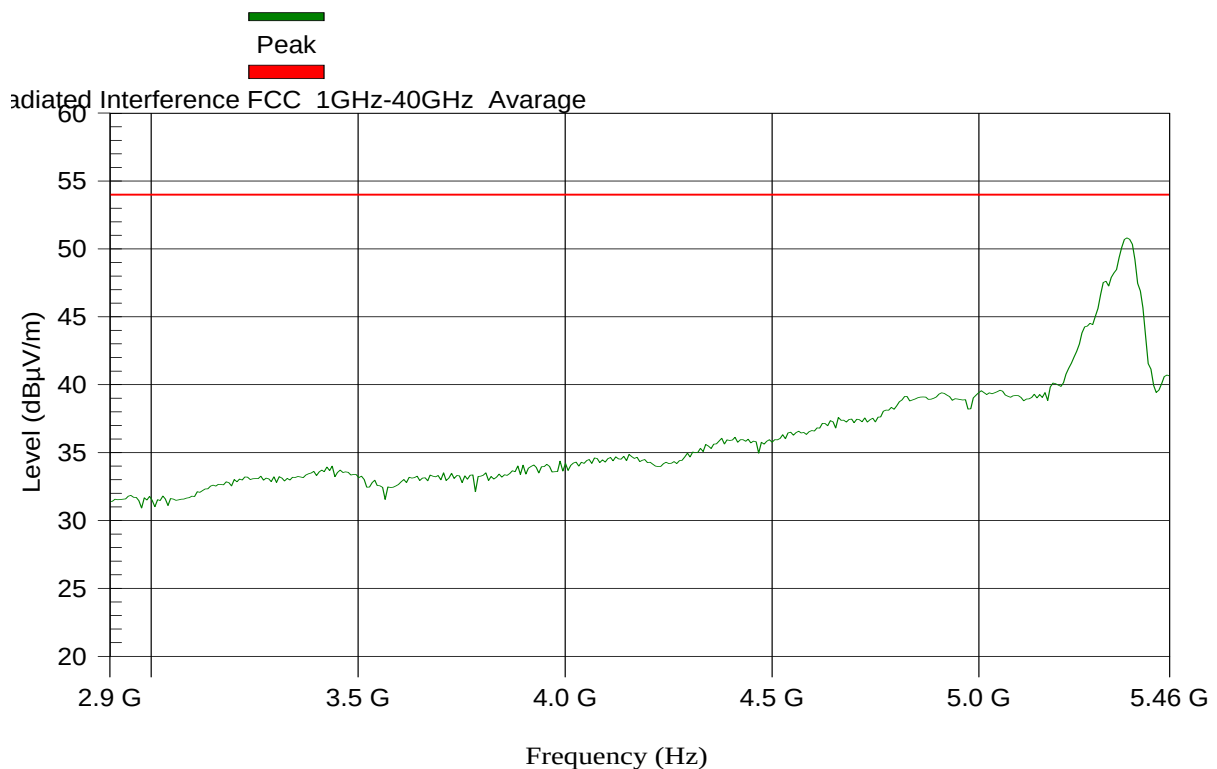
Test Results Plot No 76

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	60 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 33.44 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:36:22 PM

AVG; LOW_5735 MHz-BW=20 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5357.6	50.8	54		0	1	H

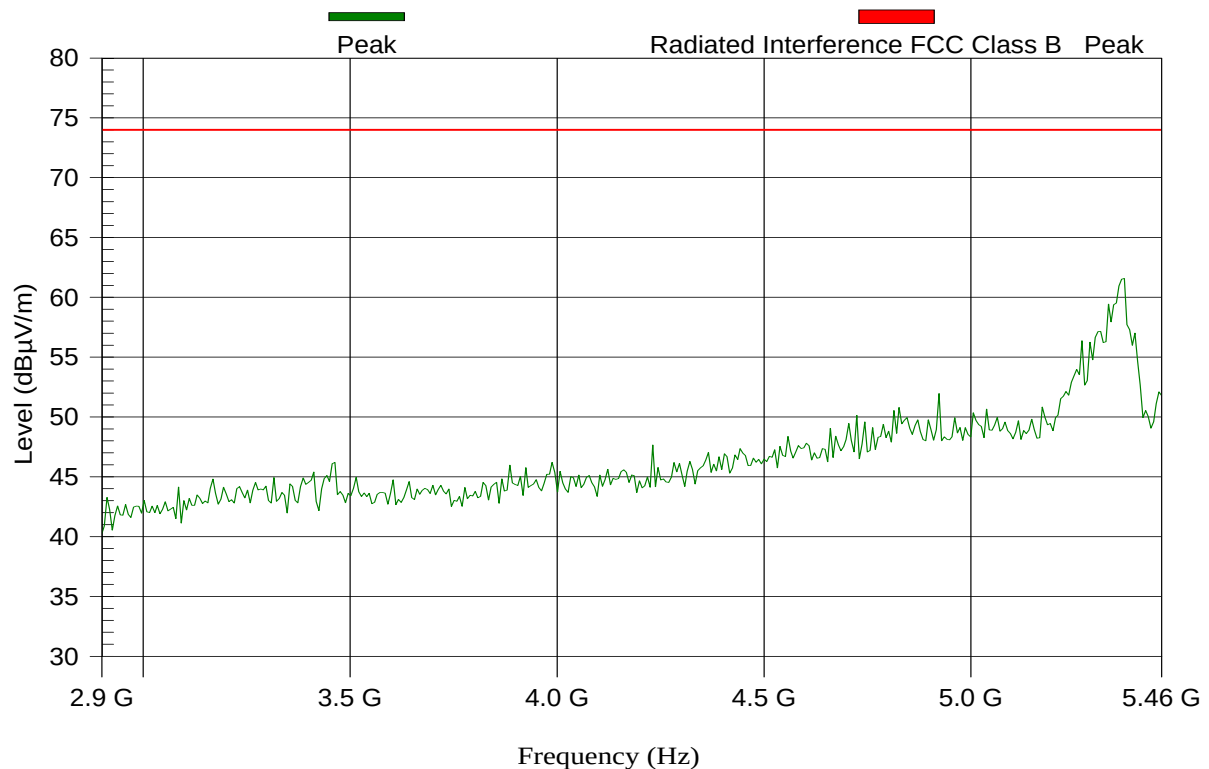
Test Results Plot No 77

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	Auto: 90 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:38:25 PM

PEAK; LOW_5735 MHz-BW=20 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

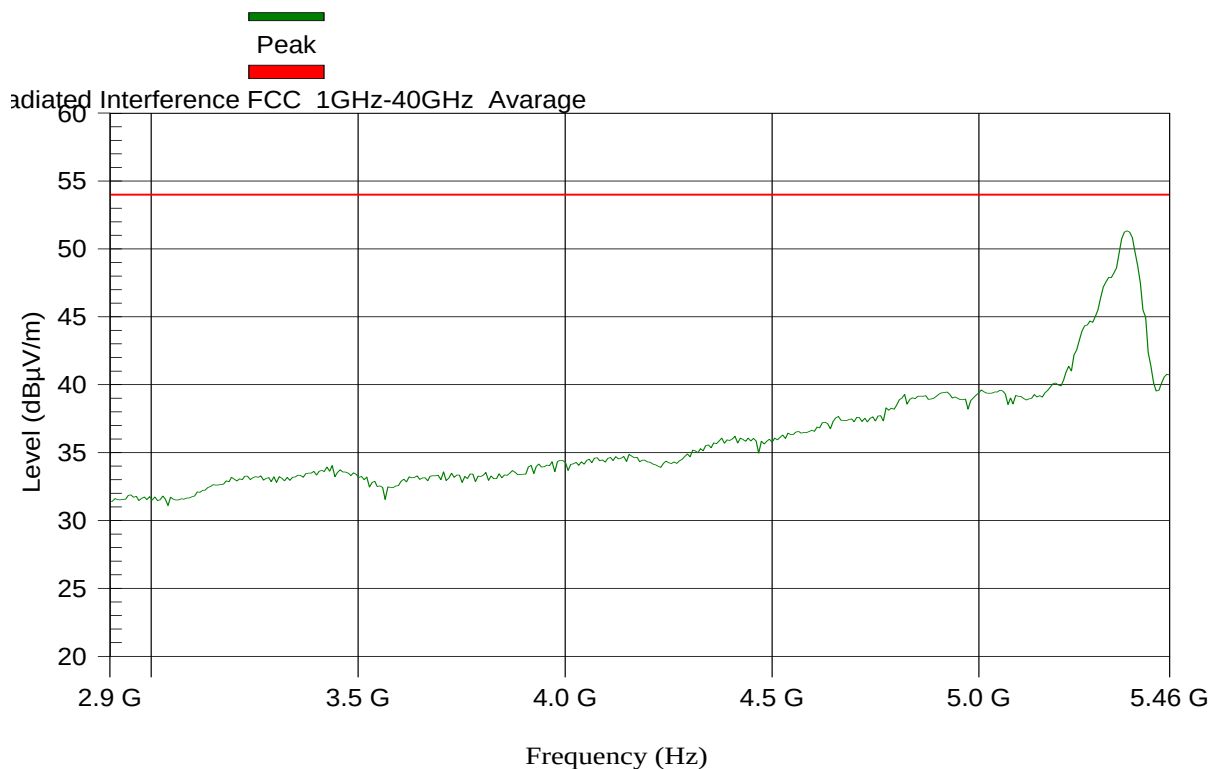
Test Results Plot No 78

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	60 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 33.44 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:44:01 PM

AVG; MID_5790 MHz-BW=20 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5357.6	51.3	54		0	1	H

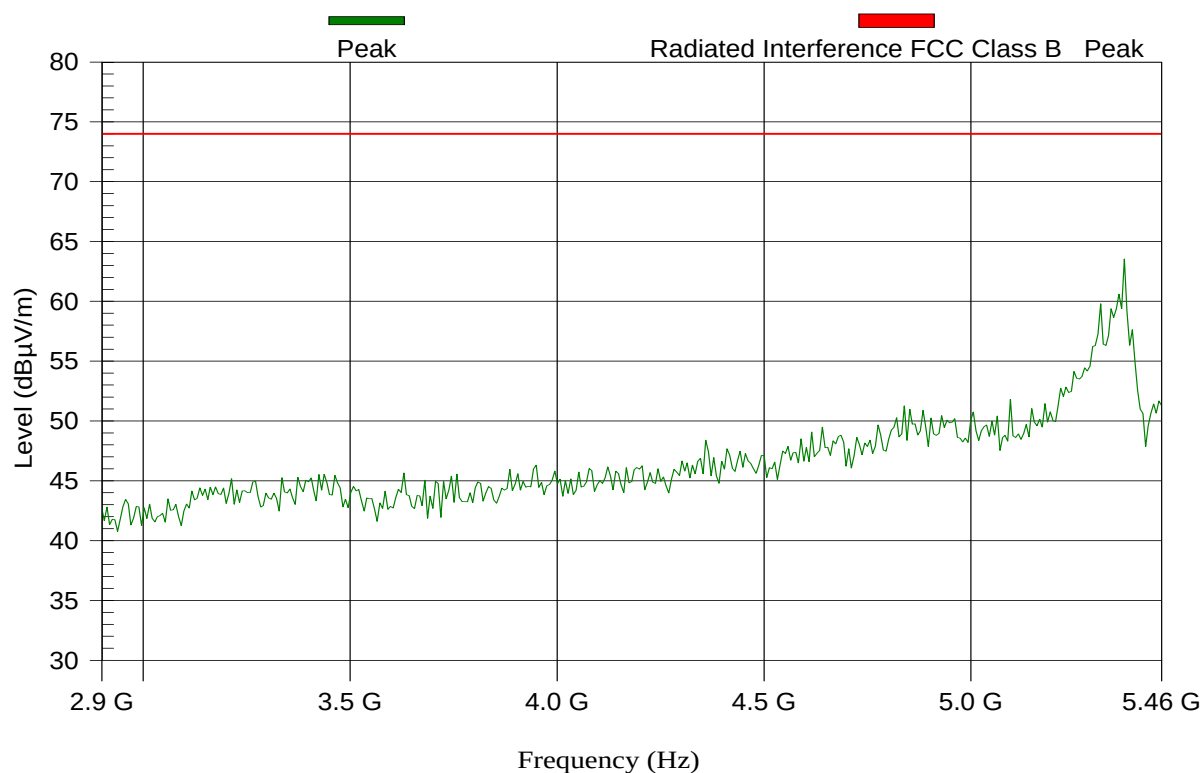
Test Results Plot No 79

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	Auto: 90 dBμV
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:46:22 PM

PEAK; MID_5790 MHz-BW=20 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

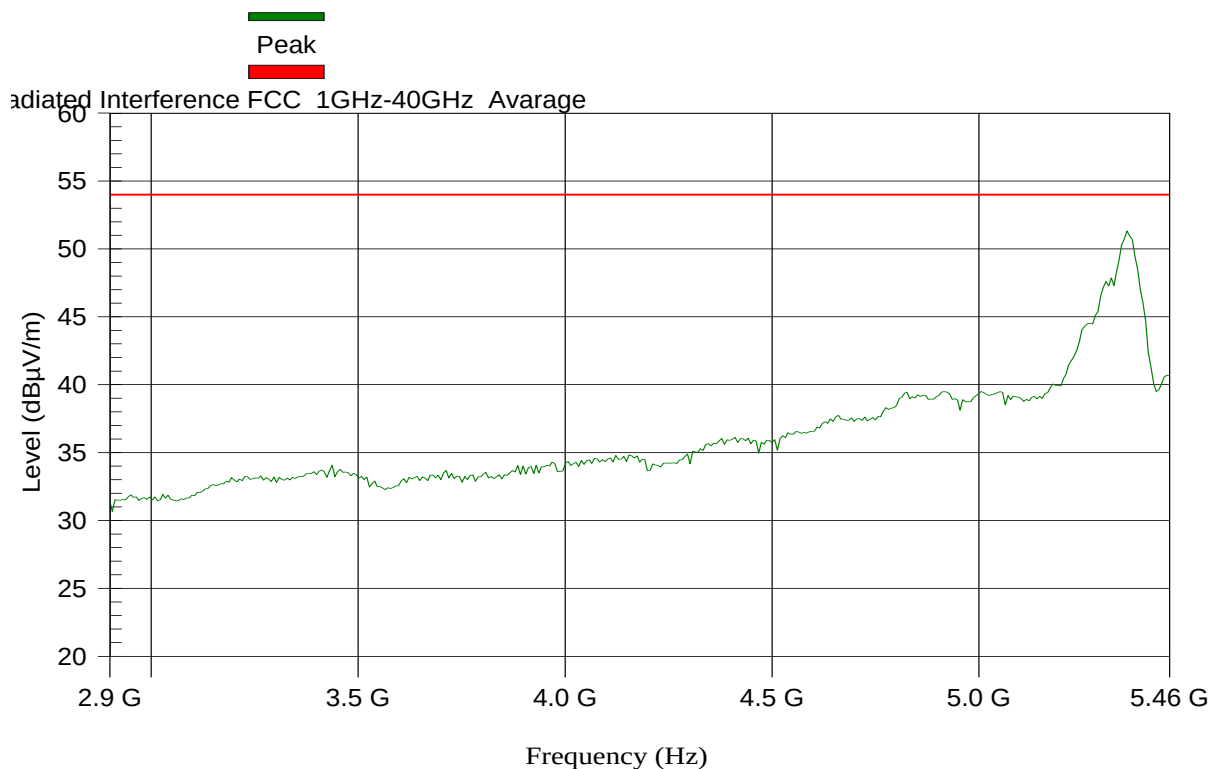
Test Results Plot No 80

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	60 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 33.44 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:53:10 PM

AVG; HIGH_5840 MHz-BW=20 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5357.6	51.3	54		0	1	H

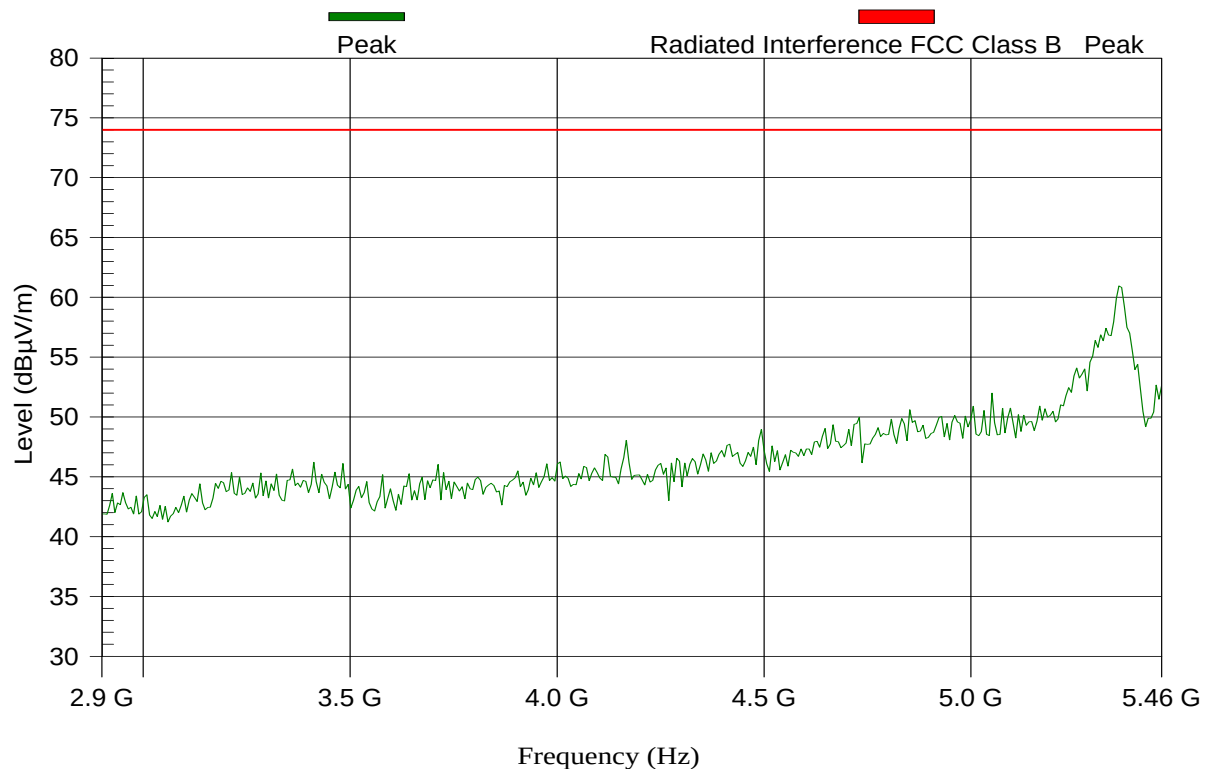
Test Results Plot No 81

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	Auto: 90 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:55:01 PM

PEAK; HIGH_5840 MHz-BW=20 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

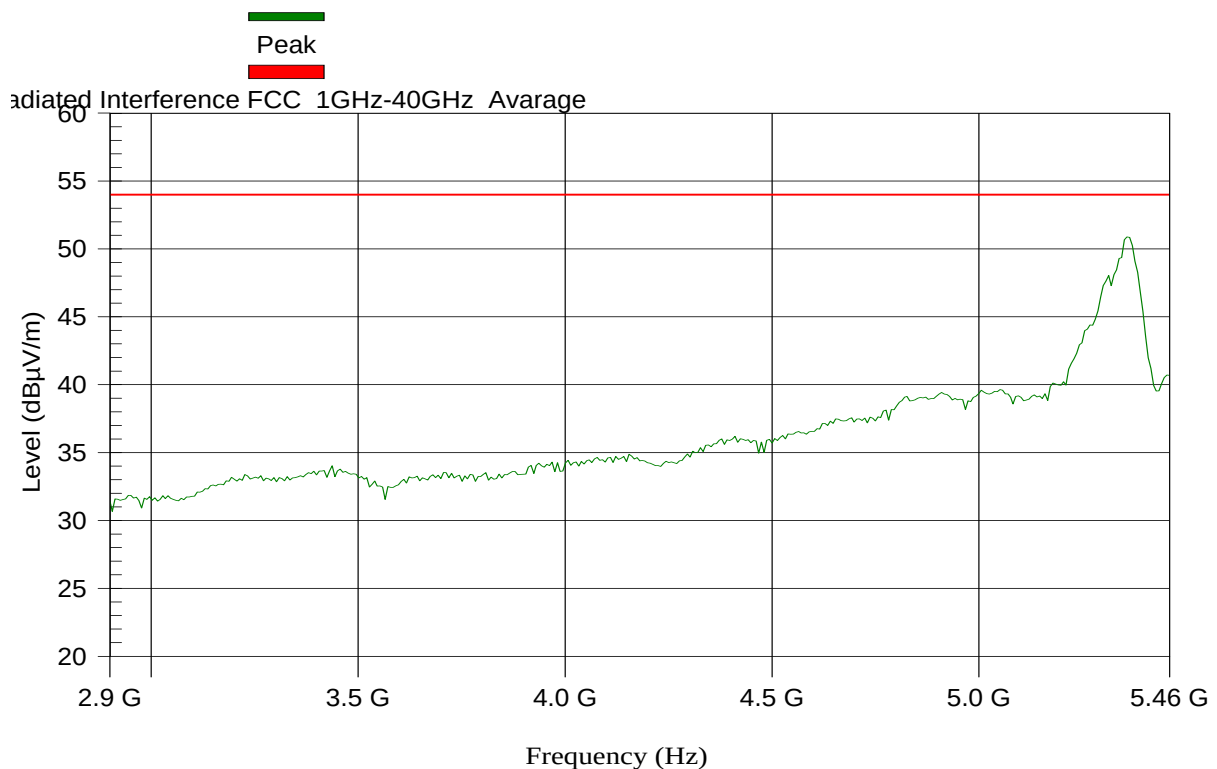
Test Results Plot No 82

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	60 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 33.44 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 5:59:53 PM

AVG; LOW_5745 MHz-BW=40 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5357.6	50.9	54		0	1	H

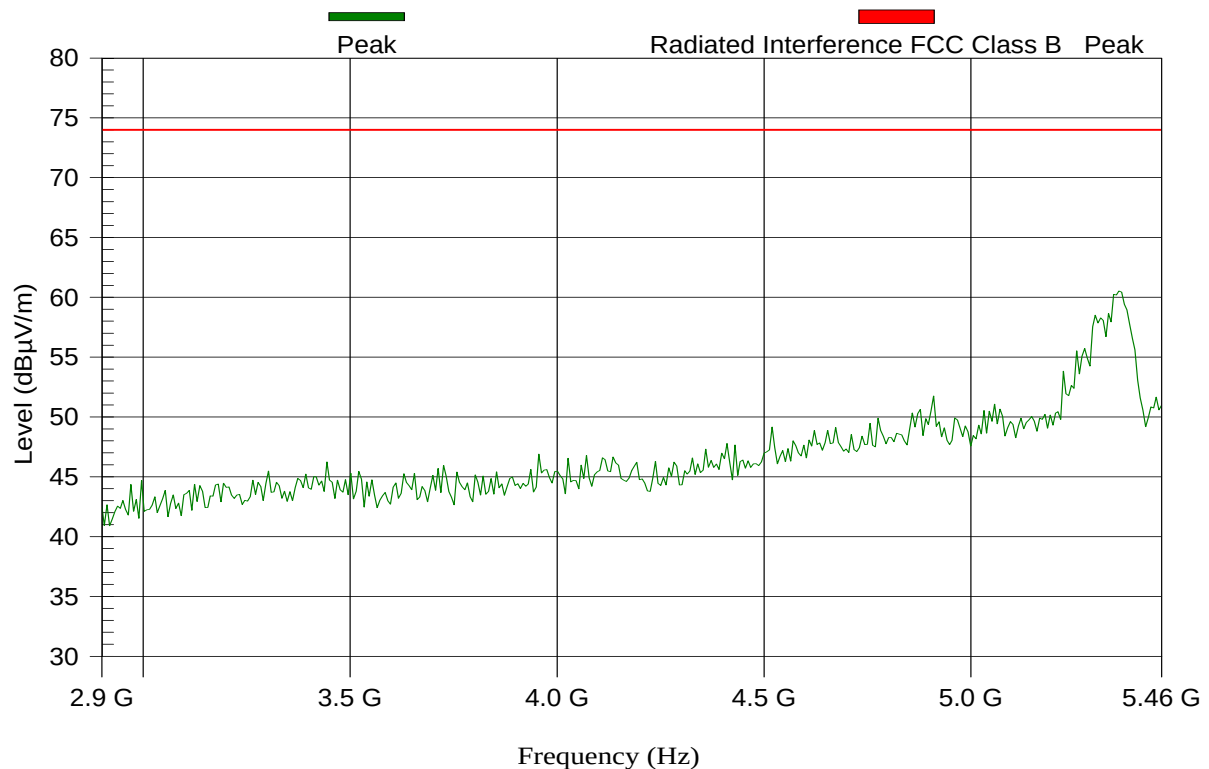
Test Results Plot No 83

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	Auto: 90 dBμV
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 6:01:43 PM

PEAK; LOW_5745 MHz-BW=40 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

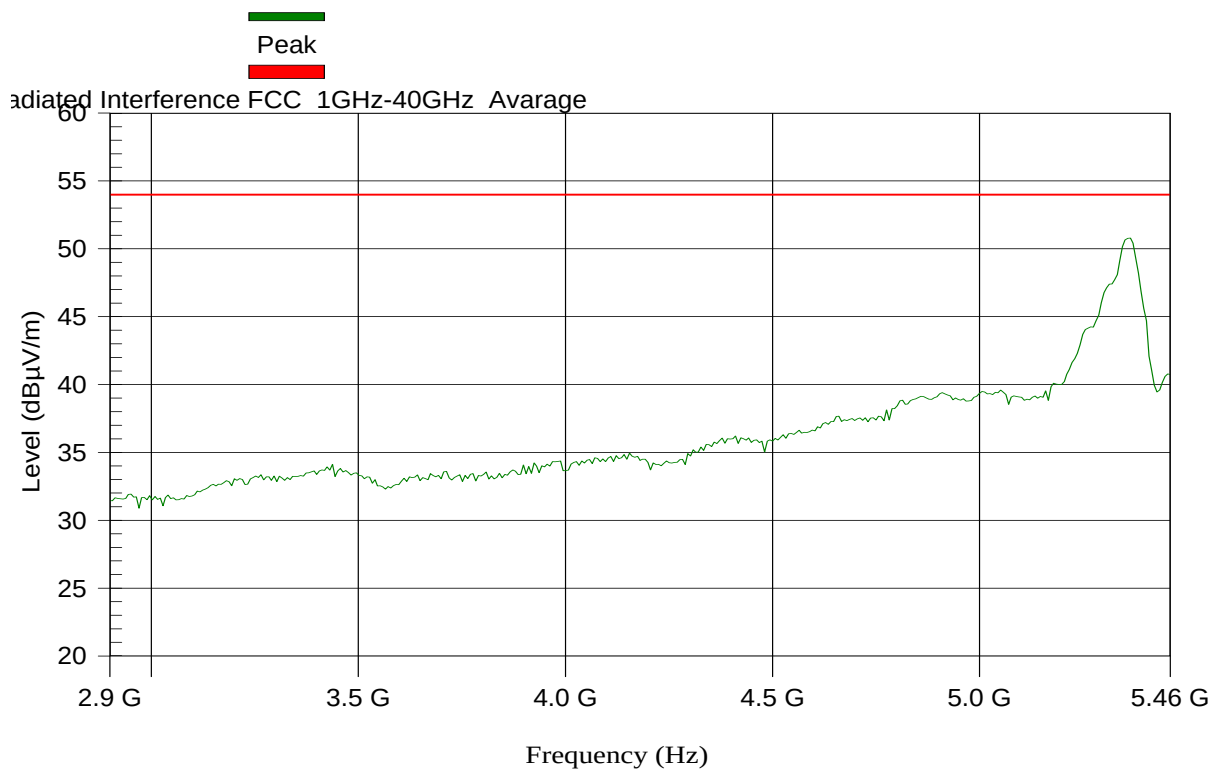
Test Results Plot No 84

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	60 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 33.44 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 6:05:59 PM

AVG; MID_5790 MHz-BW=40 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5364	50.8	54		0	1	H

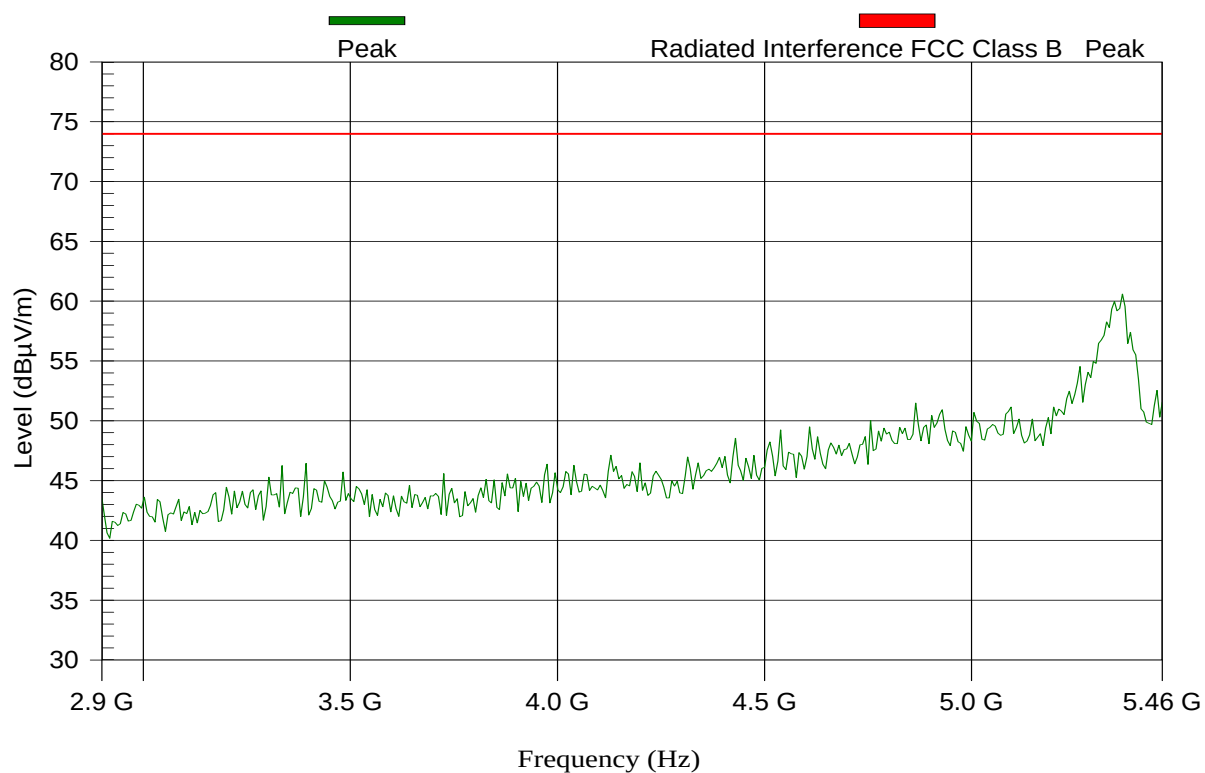
Test Results Plot No 85

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	Auto: 90 dBμV
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 6:07:26 PM

PEAK; MID_5790 MHz-BW=40 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

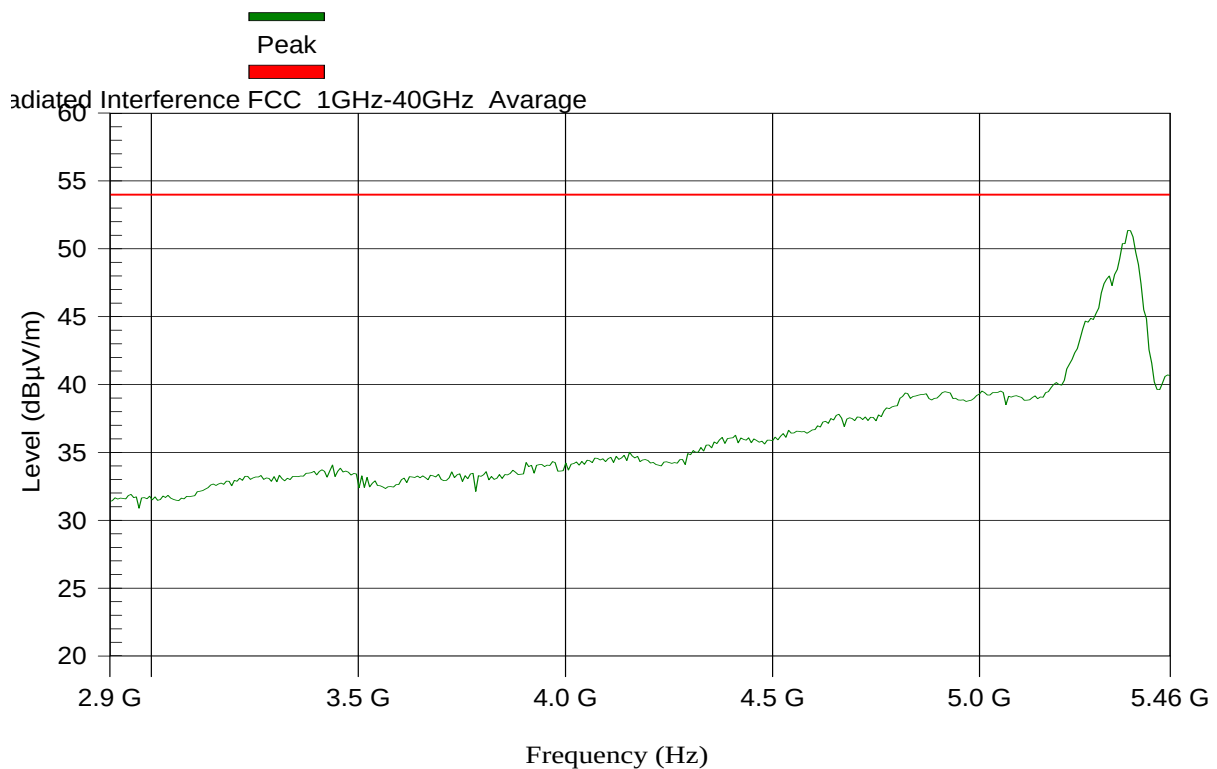
Test Results Plot No 86

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	60 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 33.44 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 6:09:48 PM

AVG; HIGH_5830 MHz-BW=40 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5357.6	51.4	54		0	1	H

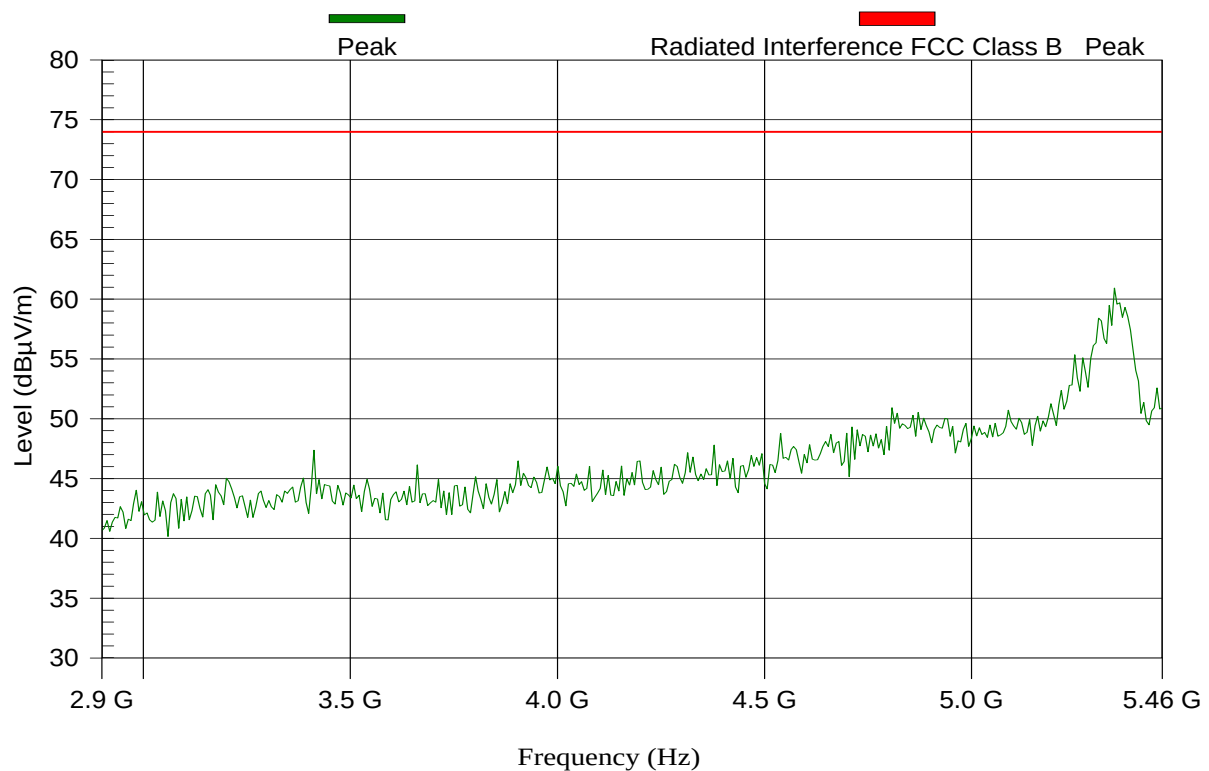
Test Results Plot No 87

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	Auto: 90 dBμV
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 6:11:19 PM

PEAK; HIGH_5830 MHz-BW=40 MHz; Using N filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

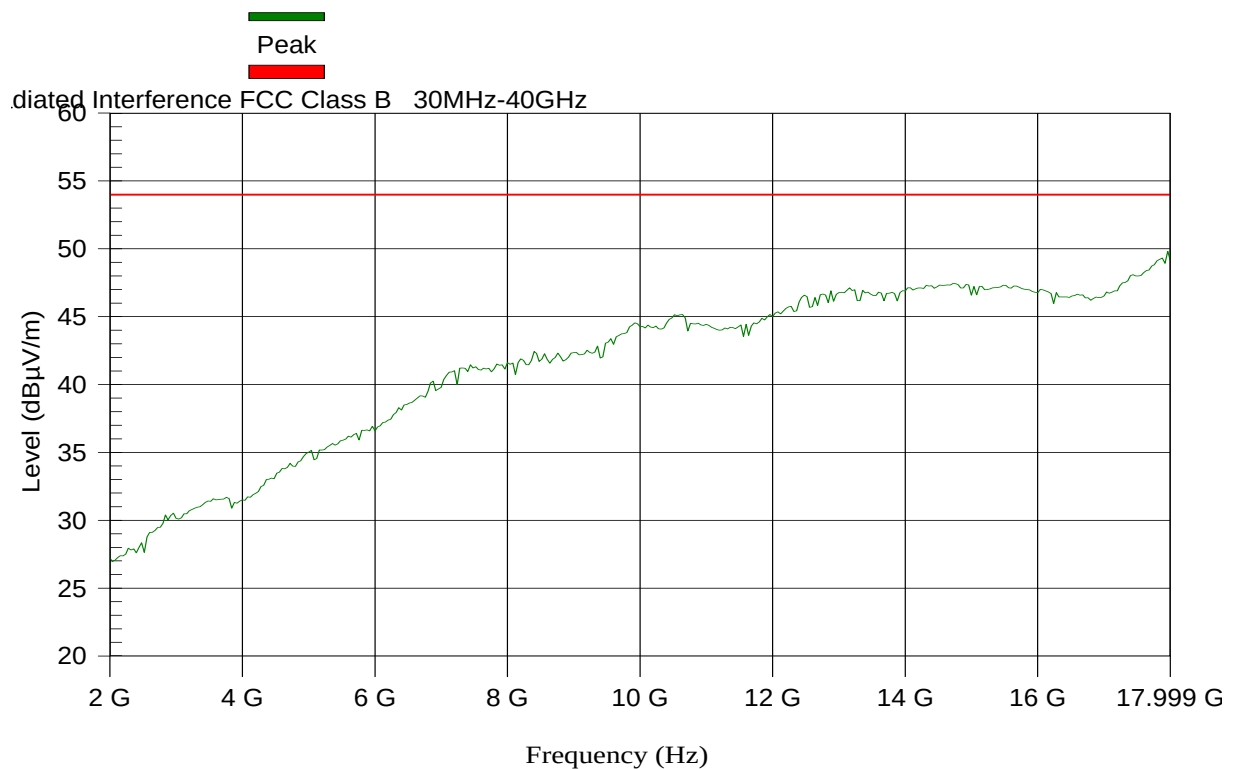
Test Results Plot No 88

2-18 GHz AVG SBY Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 20.9 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 6:21:23 PM

STANDBY MODE



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.8		0	1	V

5.9.6. Flat_23dBi_Antenna_5.46 GHz – 7.25 GHz

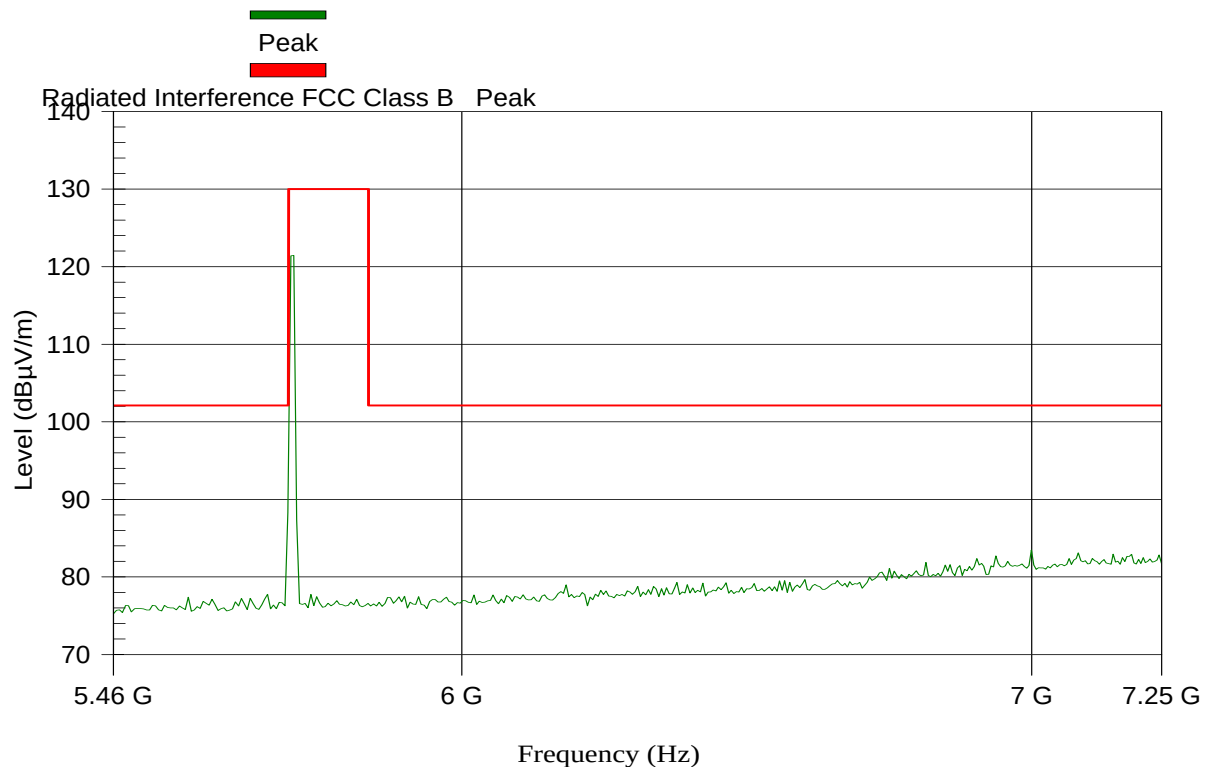
Test Results Plot No 89

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	120 dB μ V
Date of Test:	03.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Wednesday, February 03, 2010 2:50:09 PM

23dBi Antenna; LOW-5730 5 MHz 20 dBc_Limit=102.12 dBuV



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

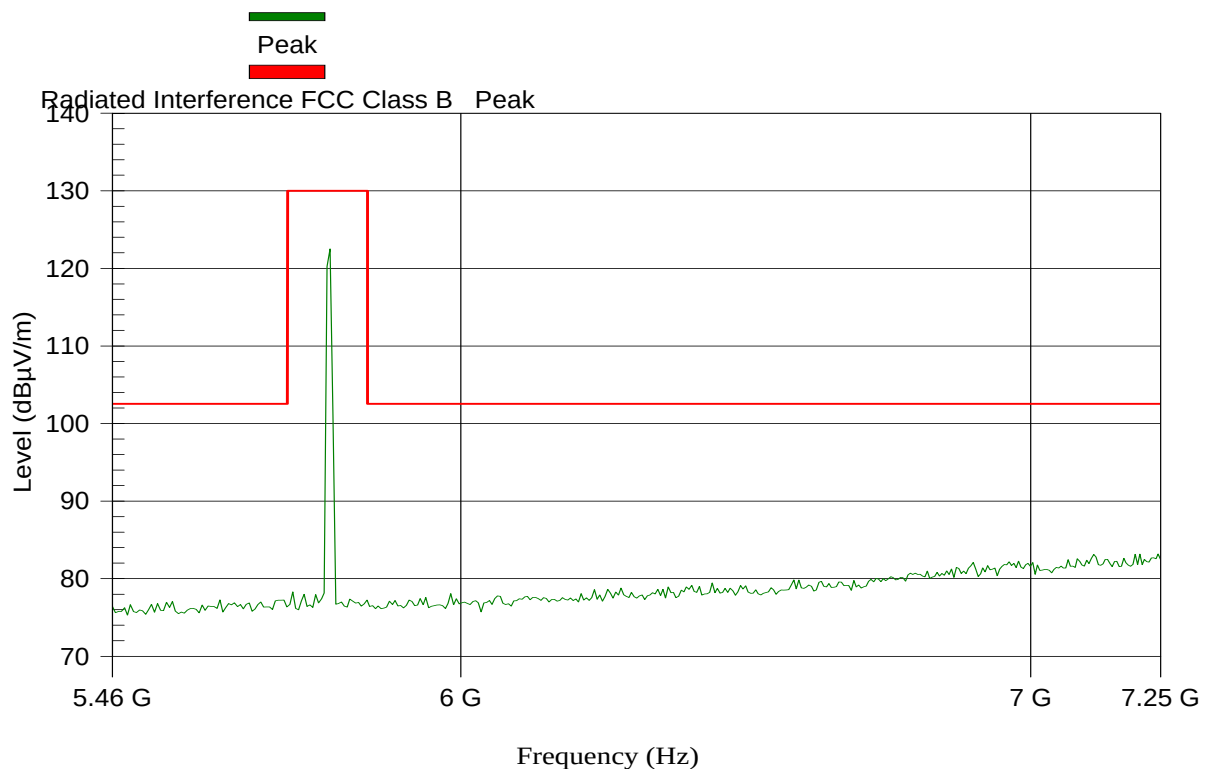
Test Results Plot No 90

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	120 dB μ V
Date of Test:	03.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Wednesday, February 03, 2010 2:55:05 PM

23dBi Antenna; MID-5790 5 MHz; 20 dBc_Limit=102.52 dBuV



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

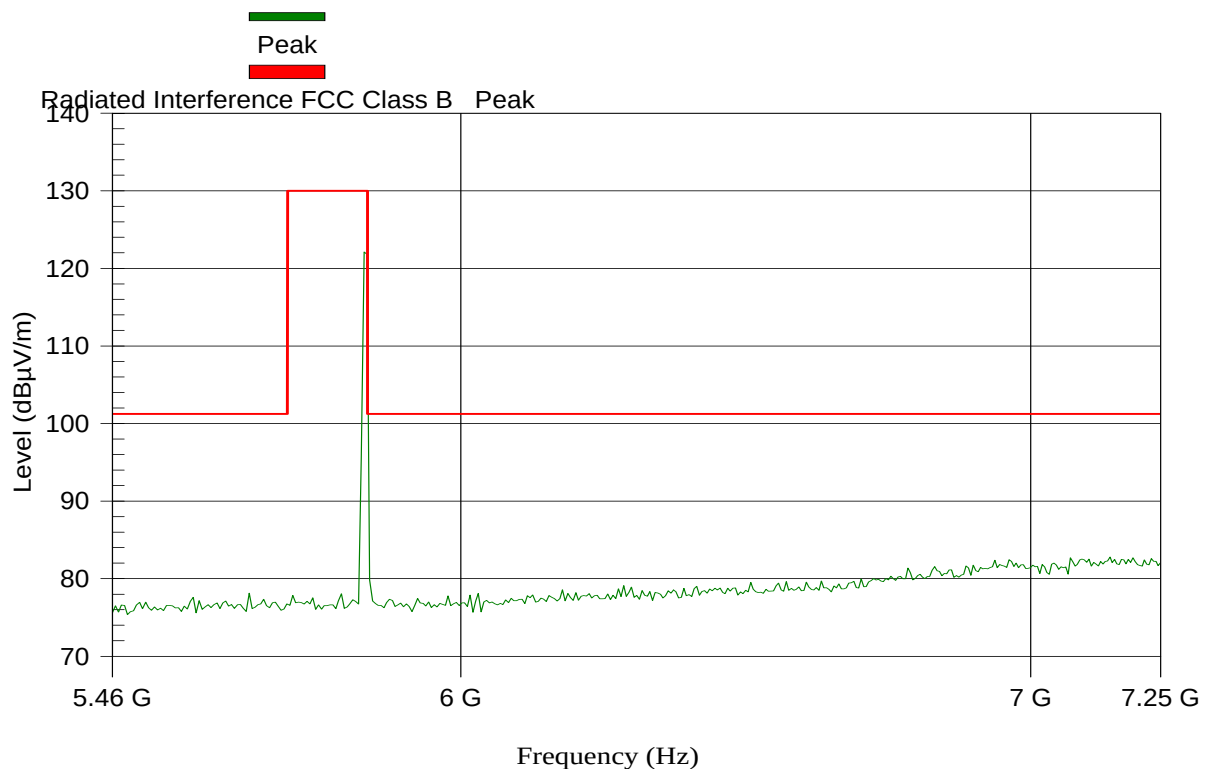
Test Results Plot No 91

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	120 dB μ V
Date of Test:	03.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Wednesday, February 03, 2010 3:00:05 PM

23dBi Antenna; HIGH-5730 5 MHz; 20 dBc_Limit=101.24 dBuV



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

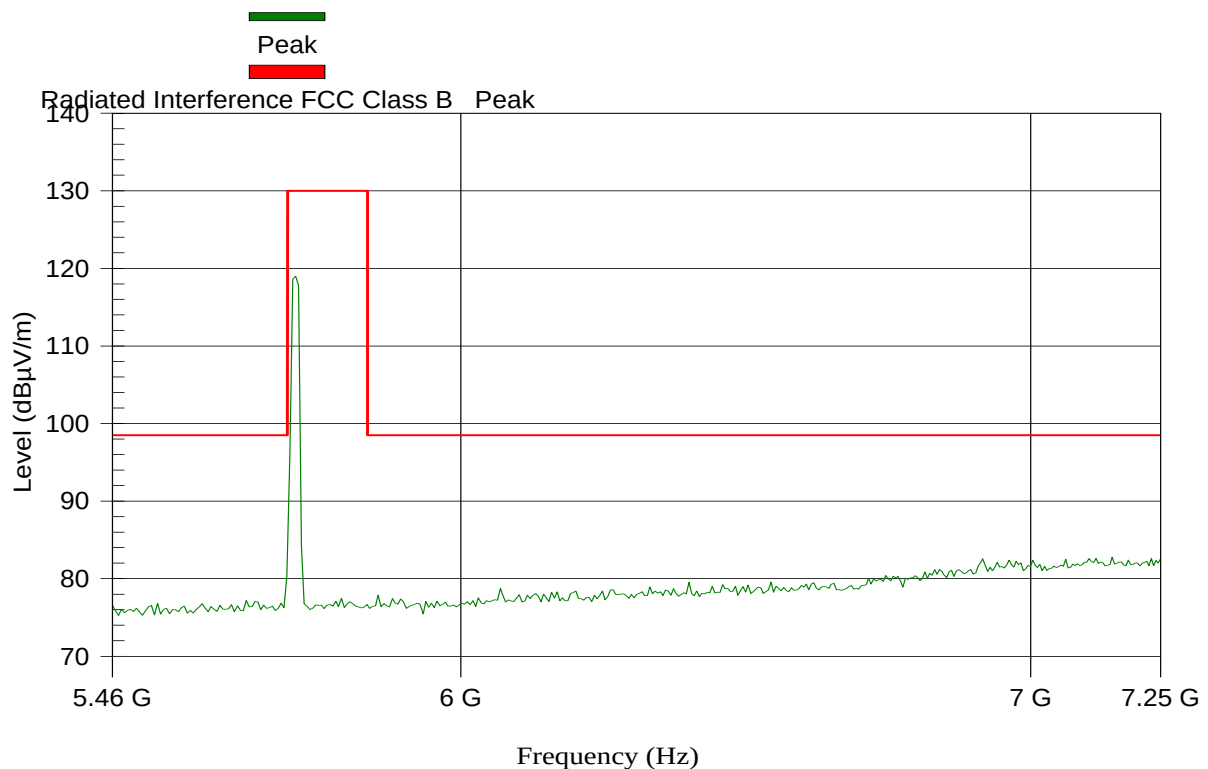
Test Results Plot No 92

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	120 dB μ V
Date of Test:	03.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Wednesday, February 03, 2010 3:04:46 PM

23dBi Antenna; LOW-5735 10 MHz; 20 dBc_Limit=98.5 dBuV



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

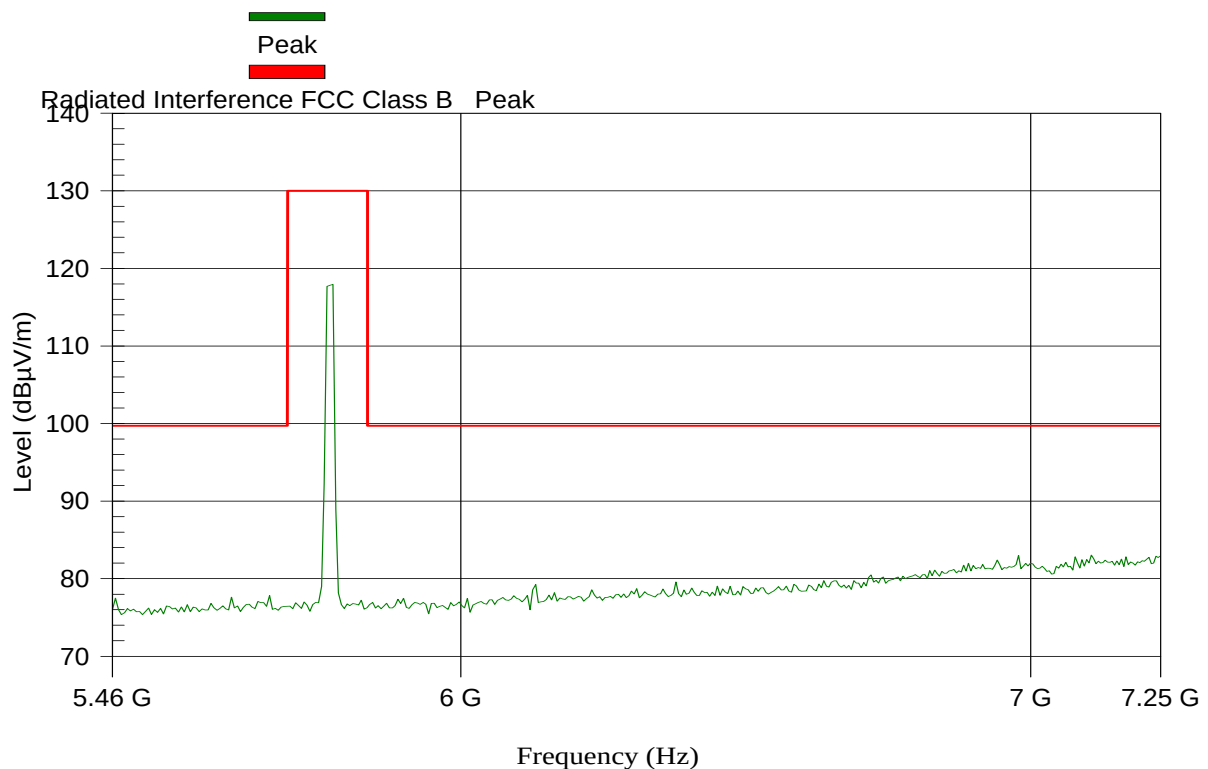
Test Results Plot No 93

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	120 dB μ V
Date of Test:	03.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Wednesday, February 03, 2010 3:12:51 PM

23dBi Antenna; MID-5790 10 MHz; 20 dBc_Limit=99.7 dBuV



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

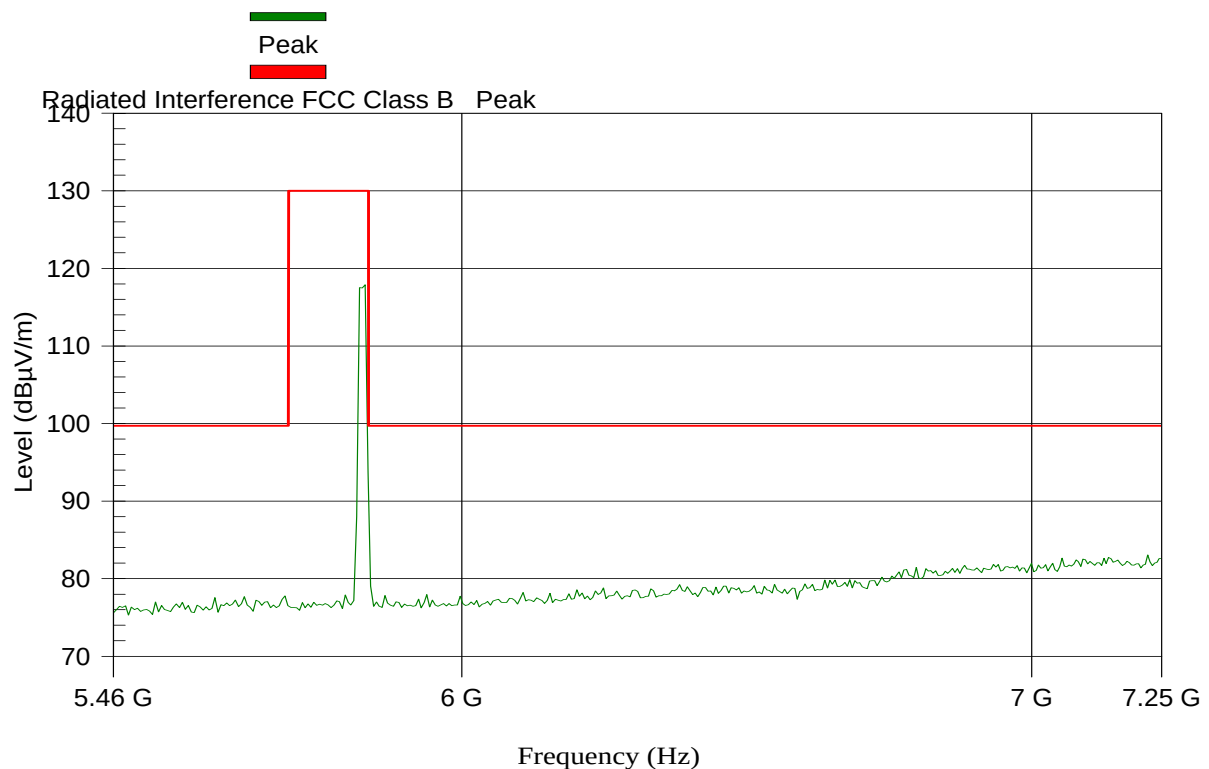
Test Results Plot No 94

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	120 dB μ V
Date of Test:	03.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Wednesday, February 03, 2010 3:16:56 PM

23dBi Antenna; HIGH 5840 10 MHz; 20 dBc_Limit=98.8 dBuV



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

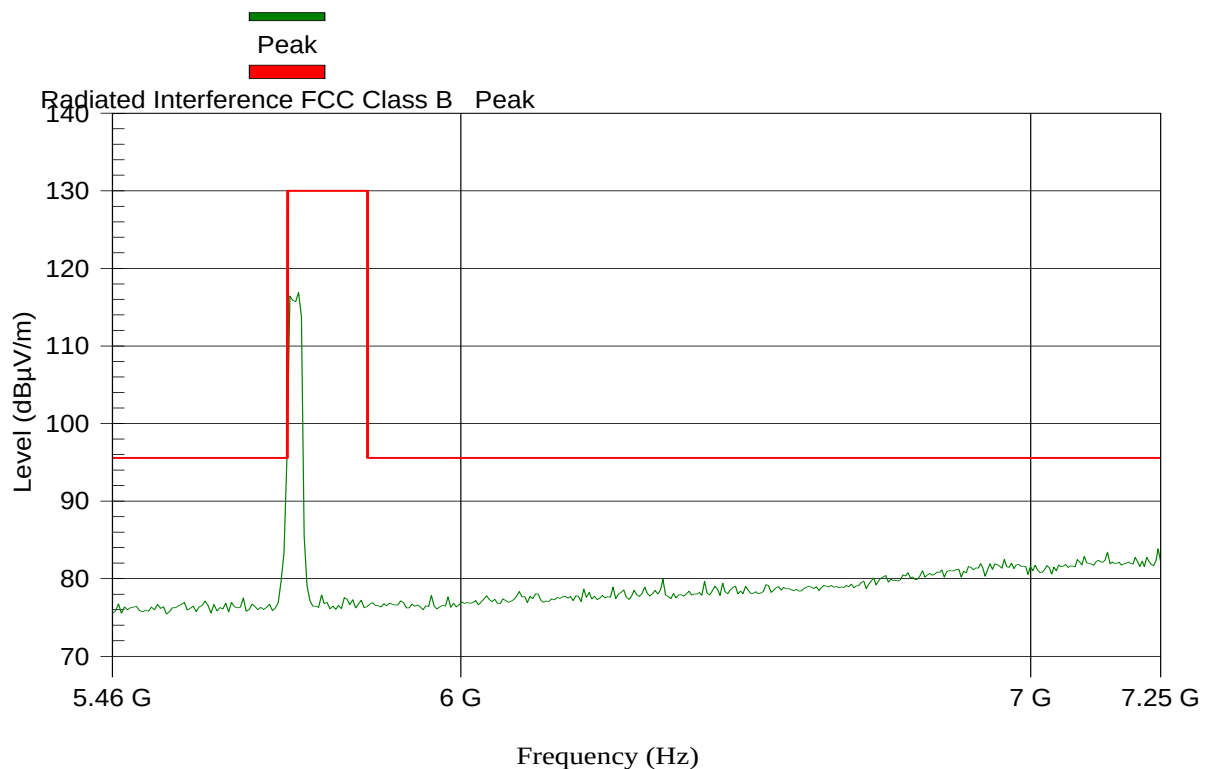
Test Results Plot No 95

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	120 dB μ V
Date of Test:	03.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Wednesday, February 03, 2010 3:20:46 PM

23dBi Antenna; LOW-5735 20 MHz; 20 dBc_Limit=95.56 dBuV



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

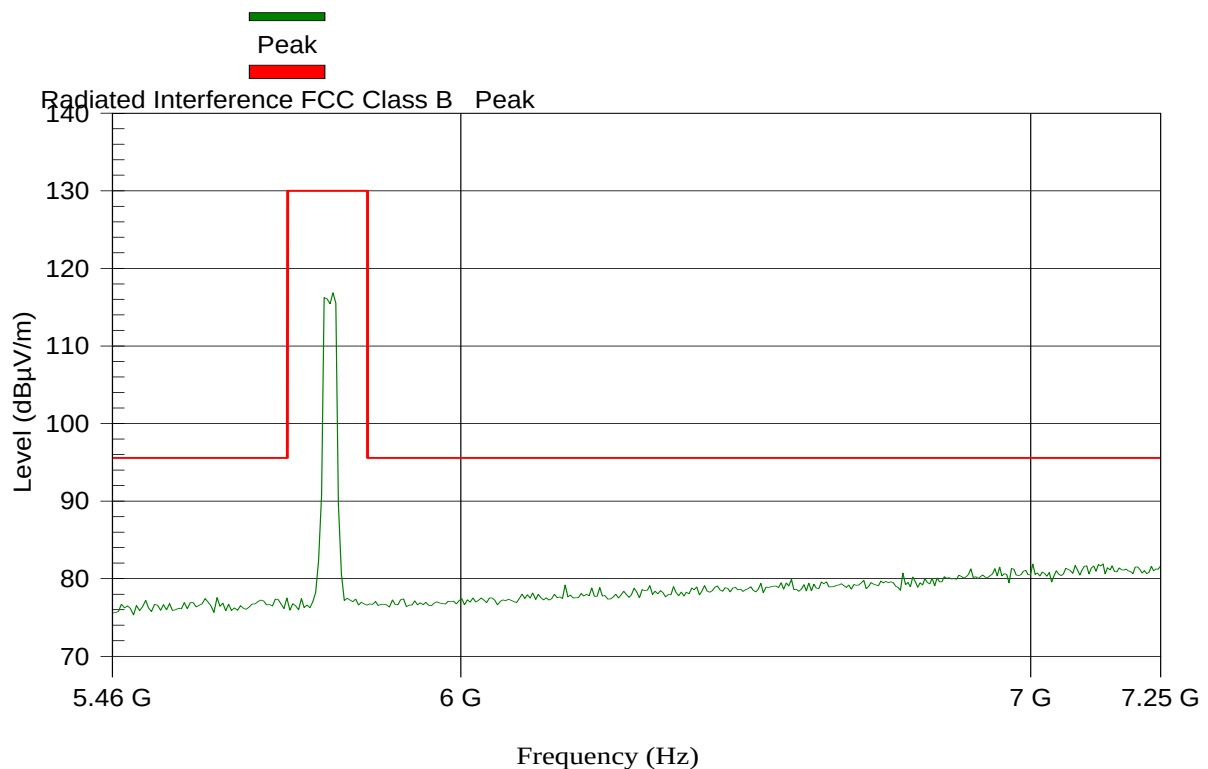
Test Results Plot No 96

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	120 dB μ V
Date of Test:	03.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Wednesday, February 03, 2010 3:25:38 PM

23dBi Antenna; MID-5790 20 MHz; 20 dBc_Limit=95.87 dB μ V



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

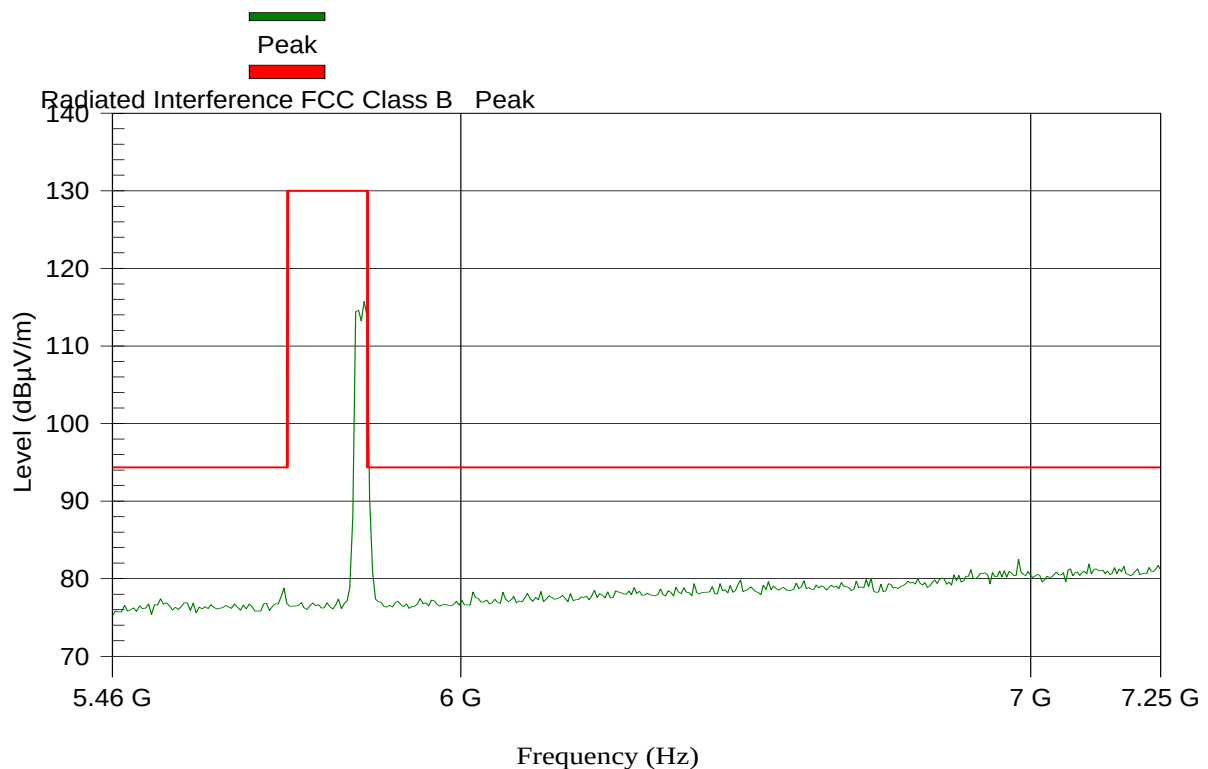
Test Results Plot No 97

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	120 dB μ V
Date of Test:	03.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Wednesday, February 03, 2010 3:30:49 PM

23dBi Antenna; HIGH-5840 20 MHz; 20 dBc_Limit=94.34 dBuV



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

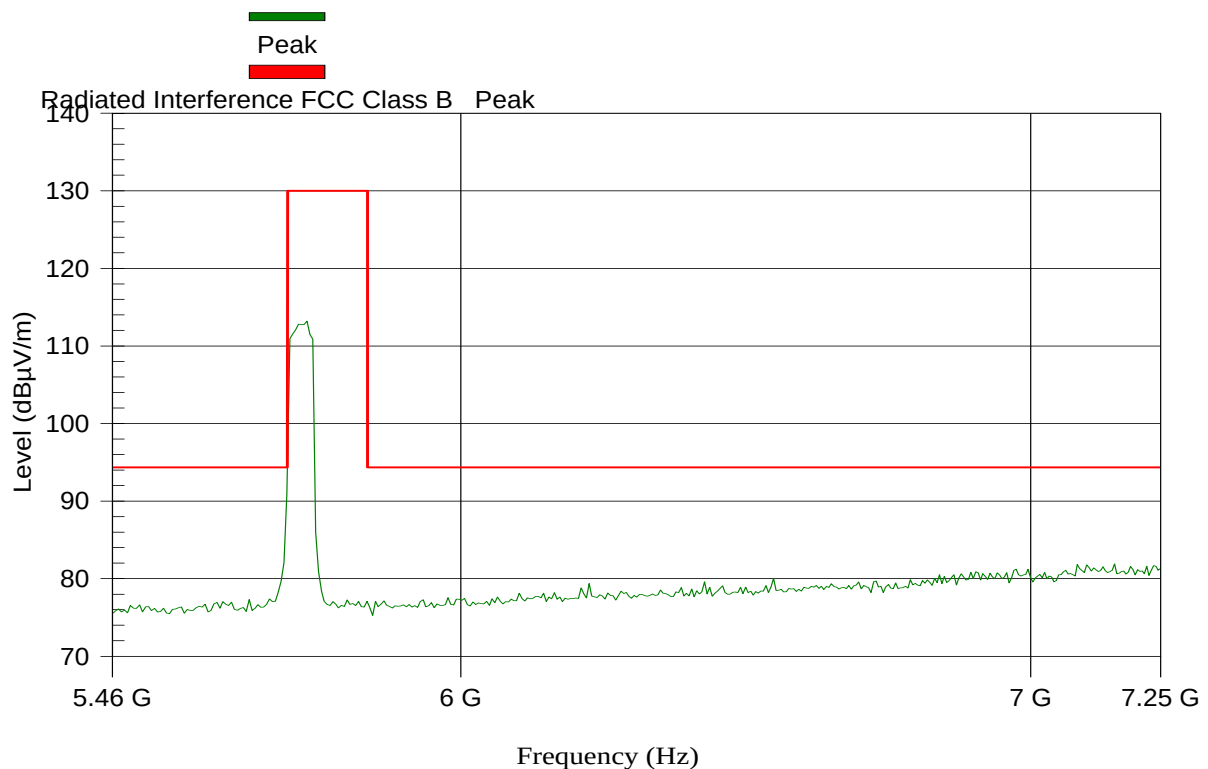
Test Results Plot No 98

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	120 dB μ V
Date of Test:	03.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Wednesday, February 03, 2010 3:34:13 PM

23dBi Antenna; LOW 5745 40 MHz; 20 dBc_Limit=94.01 dBuV



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

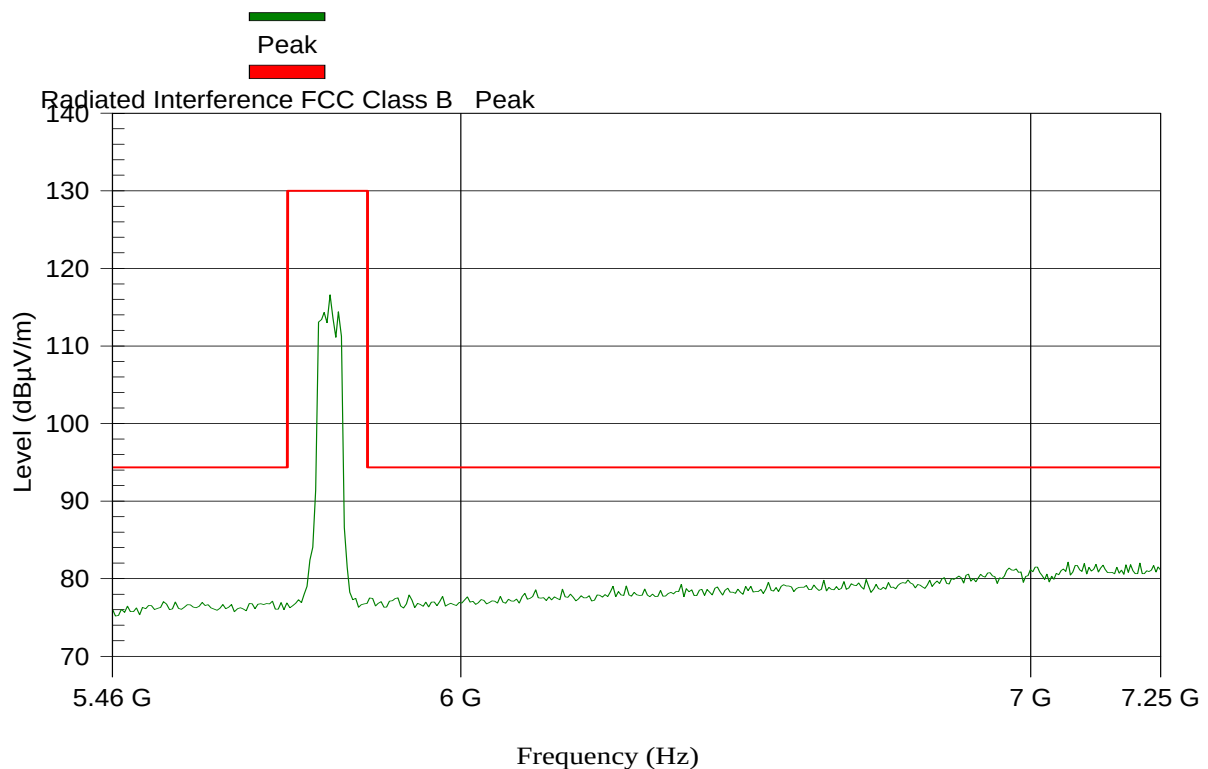
Test Results Plot No 99

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	120 dB μ V
Date of Test:	03.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Wednesday, February 03, 2010 3:37:55 PM

23dBi Antenna; MID_5790 40 MHz; 20 dBc_Limit=94.73 dBuV



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

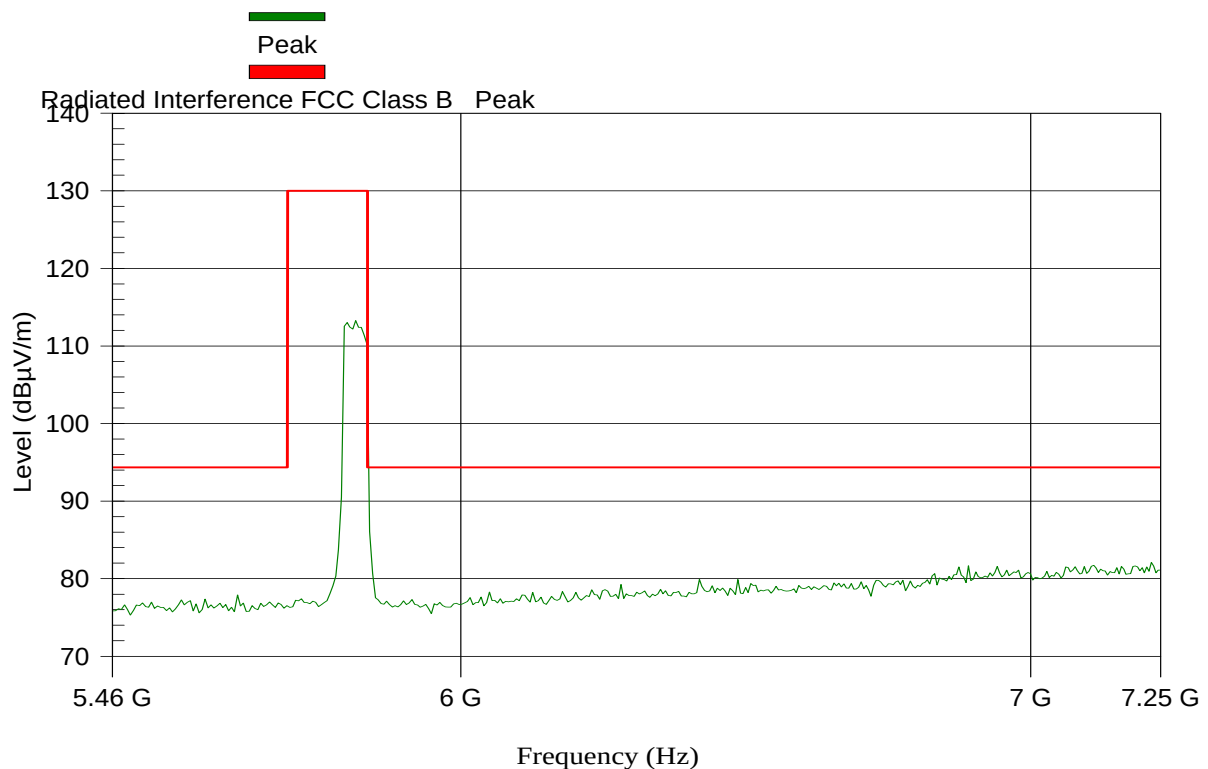
Test Results Plot No 100

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FB1CA	Ref. Level:	120 dB μ V
Date of Test:	03.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Wednesday, February 03, 2010 3:41:33 PM

23dBi Antenna; HIGH 5830 40 MHz; 20 dBc_Limit=93.83 dBuV



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

5.9.7. Flat_23dBi_Antenna_7.25 GHz – 18 GHz

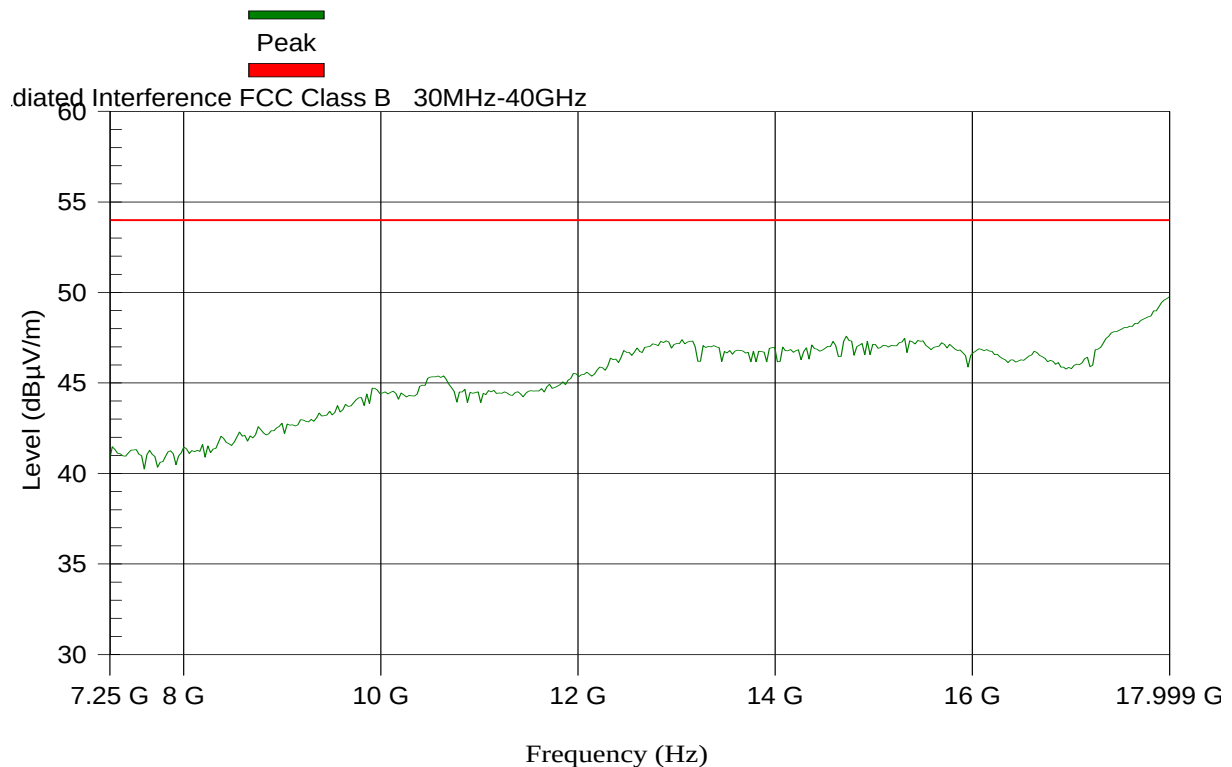
Test Results Plot No 101

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 10:45:37 AM

AVG; 23dBi_ANT; LOW_5730 MHz-BW=5 MHZ; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.8		0	1.2	V

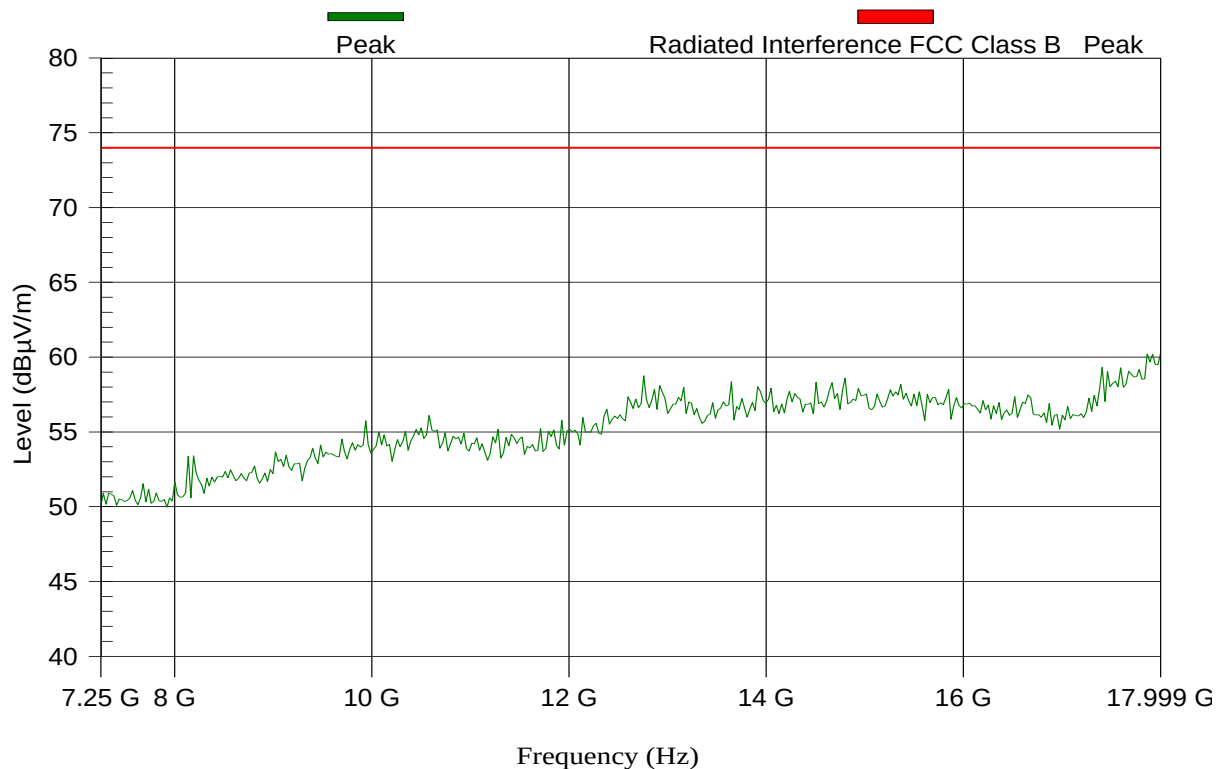
Test Results Plot No 102

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 10:57:52 AM

PEAK; 23dBi_ANT; LOW_5730 MHz-BW=5 MHZ; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

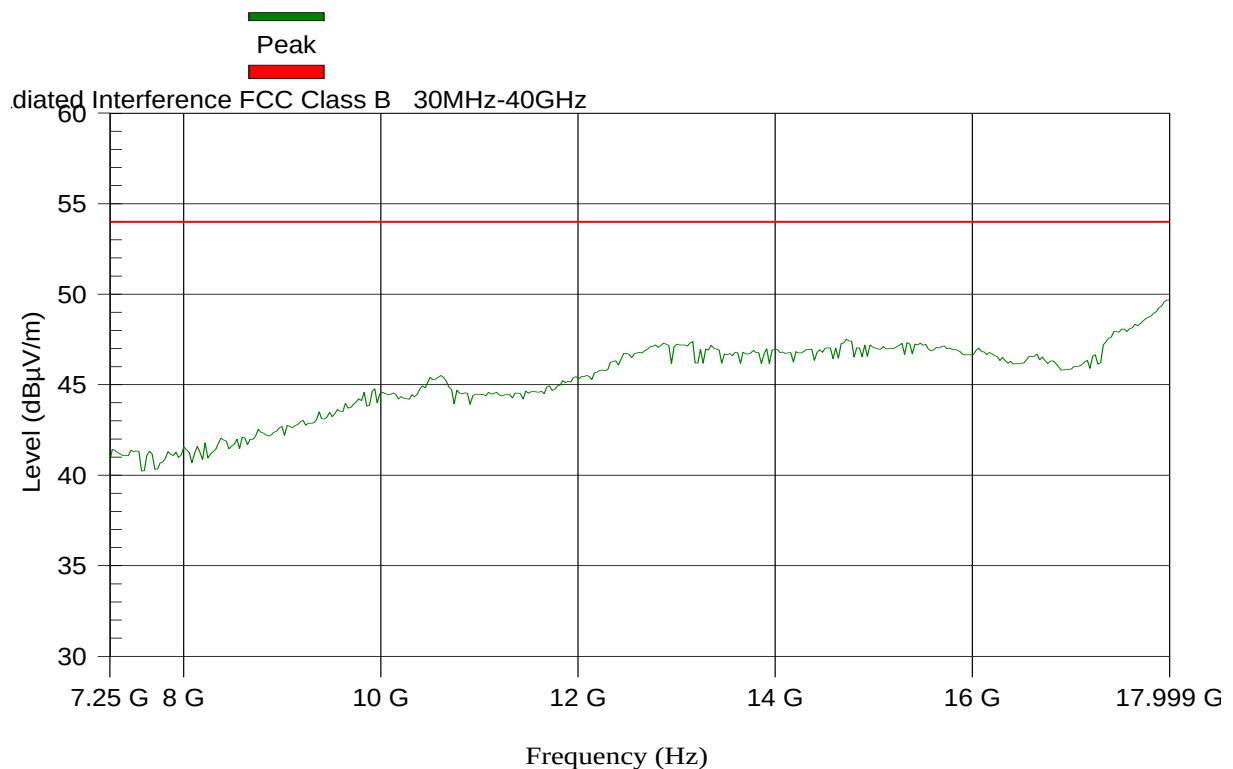
Test Results Plot No 103

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 10:54:06 AM

AVG; 23dBi_ANT; MID_5790 MHz-BW=5 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.7		180	1.4	H

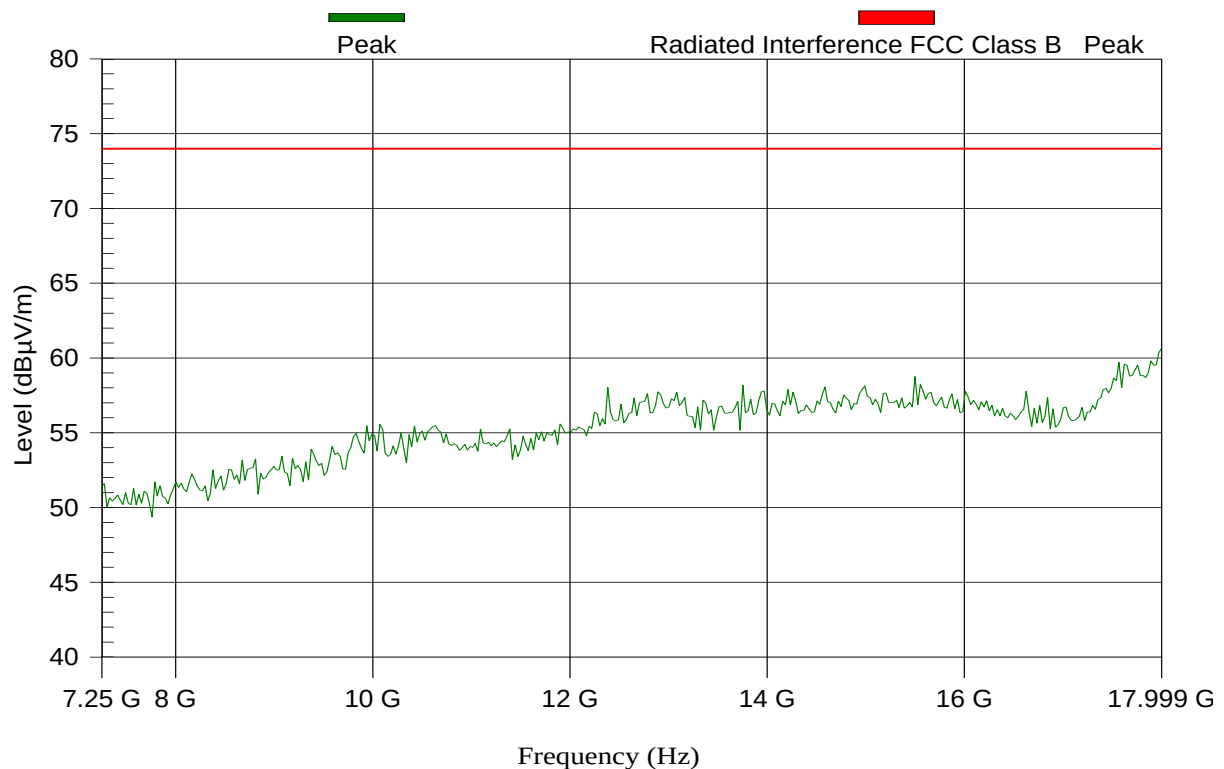
Test Results Plot No 104

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:01:49 AM

PEAK; 23dBi_ANT; MID_5790 MHz-BW=5 MHZ; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

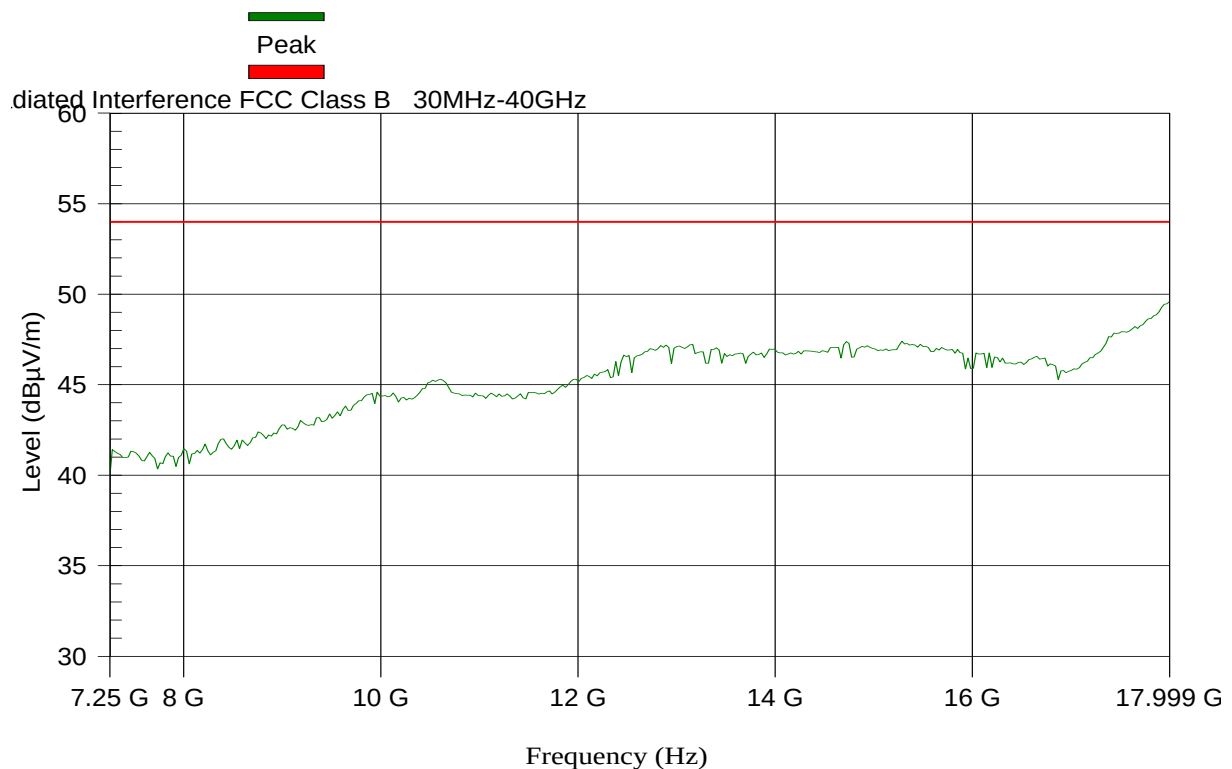
Test Results Plot No 105

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:06:08 AM

AVG; 23dBi_ANT; HIGH_5845 MHz-BW=5 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.6		0	1.4	H

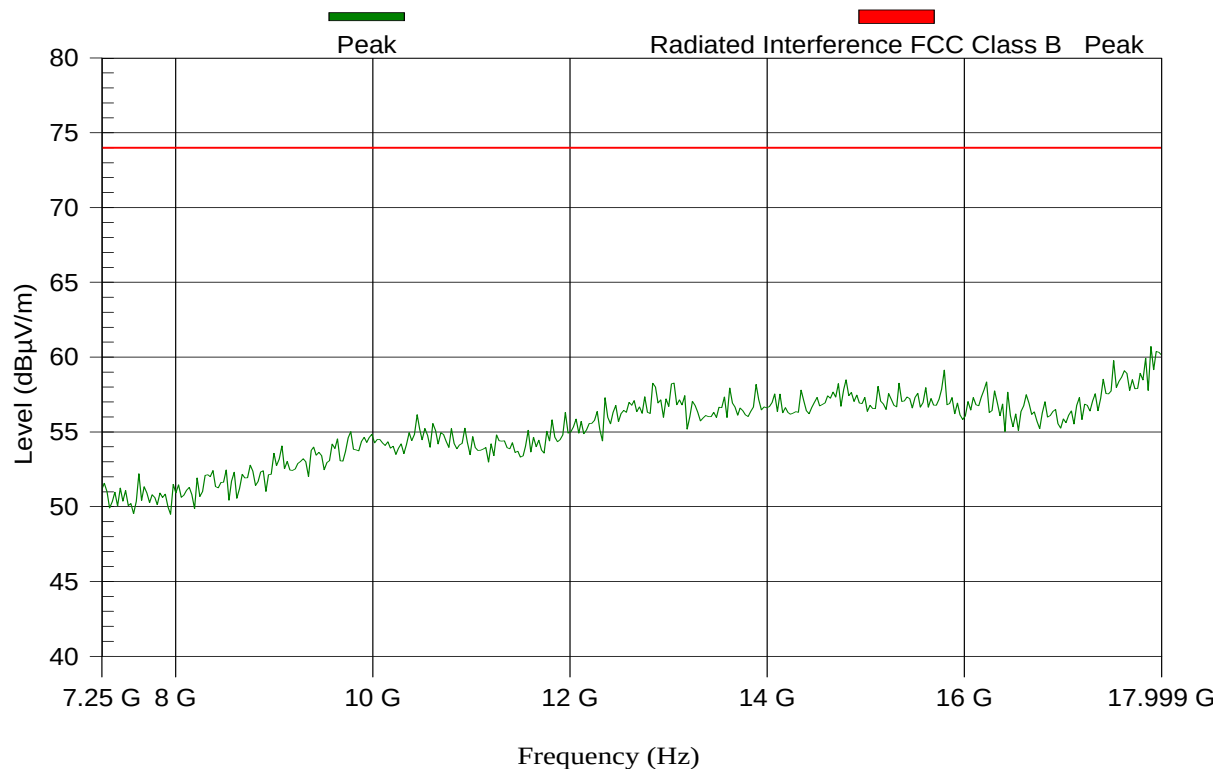
Test Results Plot No 106

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:10:54 AM

PEAK; 23dBi_ANT; HIGH_5845 MHz-BW=5 MHZ; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

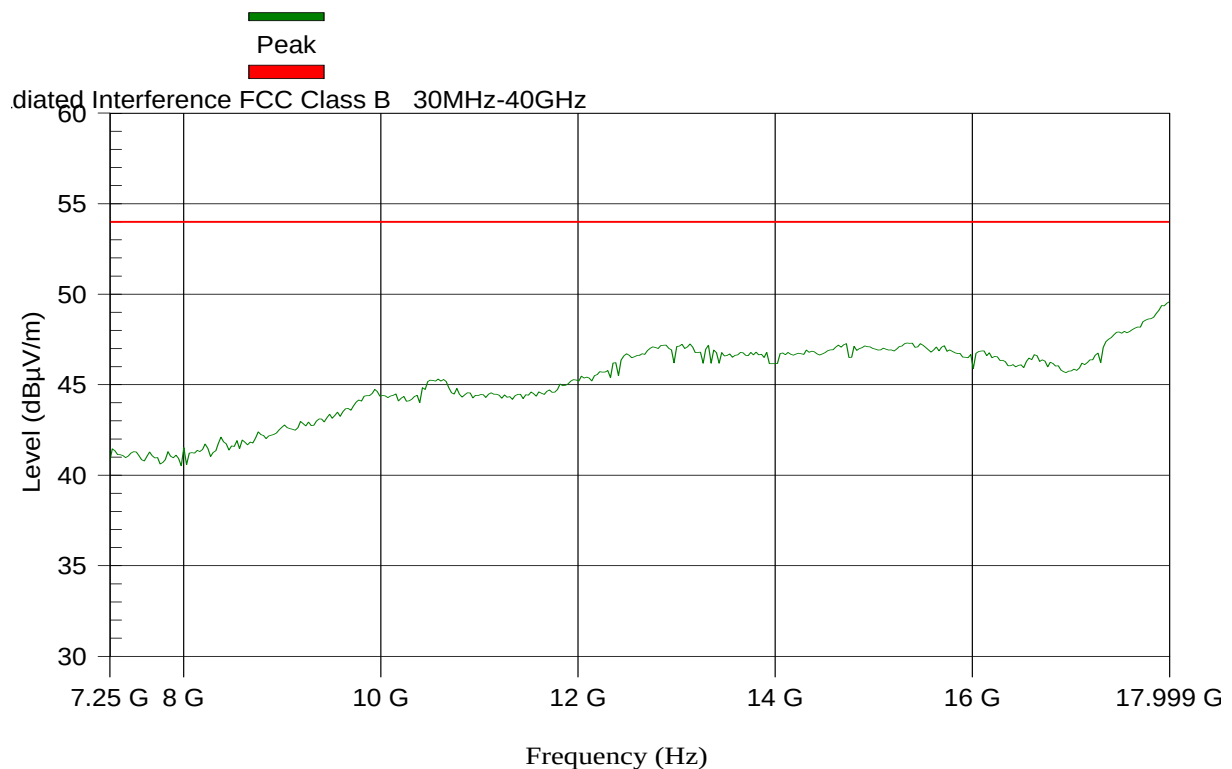
Test Results Plot No 107

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:15:42 AM

AVG; 23dBi_ANT; LOW_5735 MHz-BW=10 MHZ; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.6		0	1.6	H

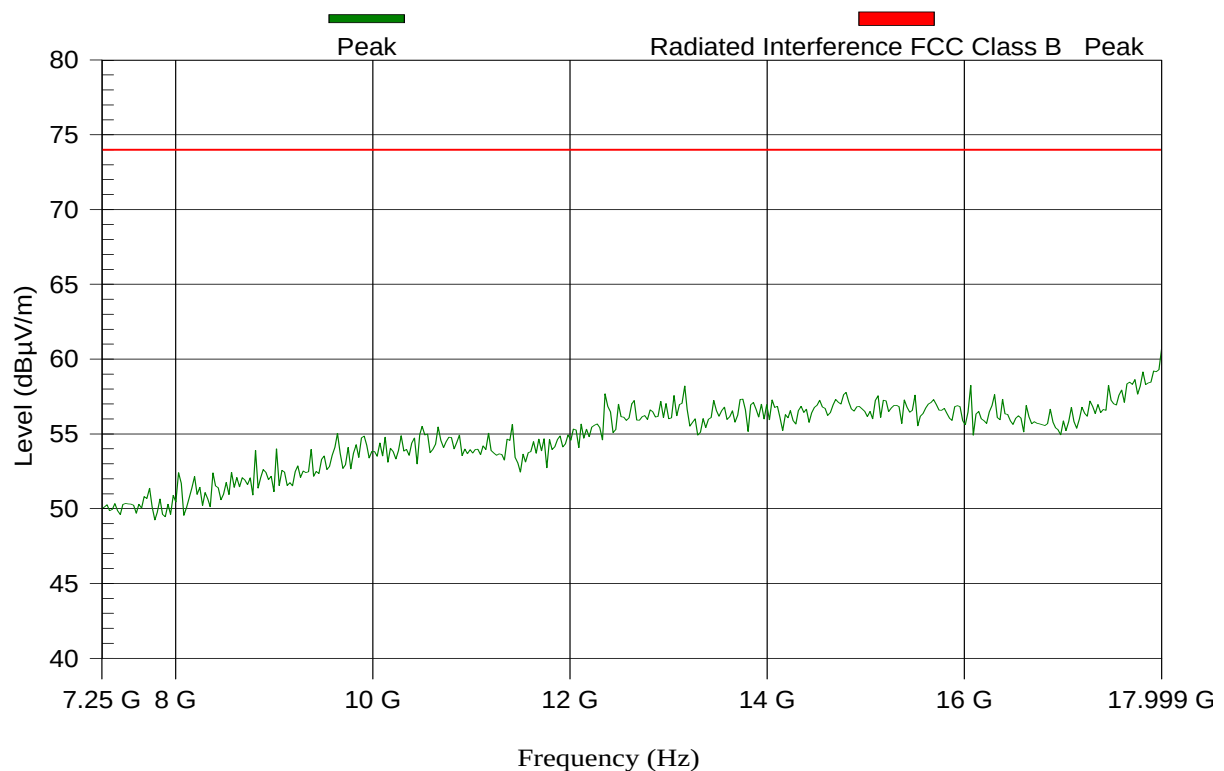
Test Results Plot No 108

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:19:13 AM

PEAK; 23dBi_ANT; LOW_5735 MHz-BW=10 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

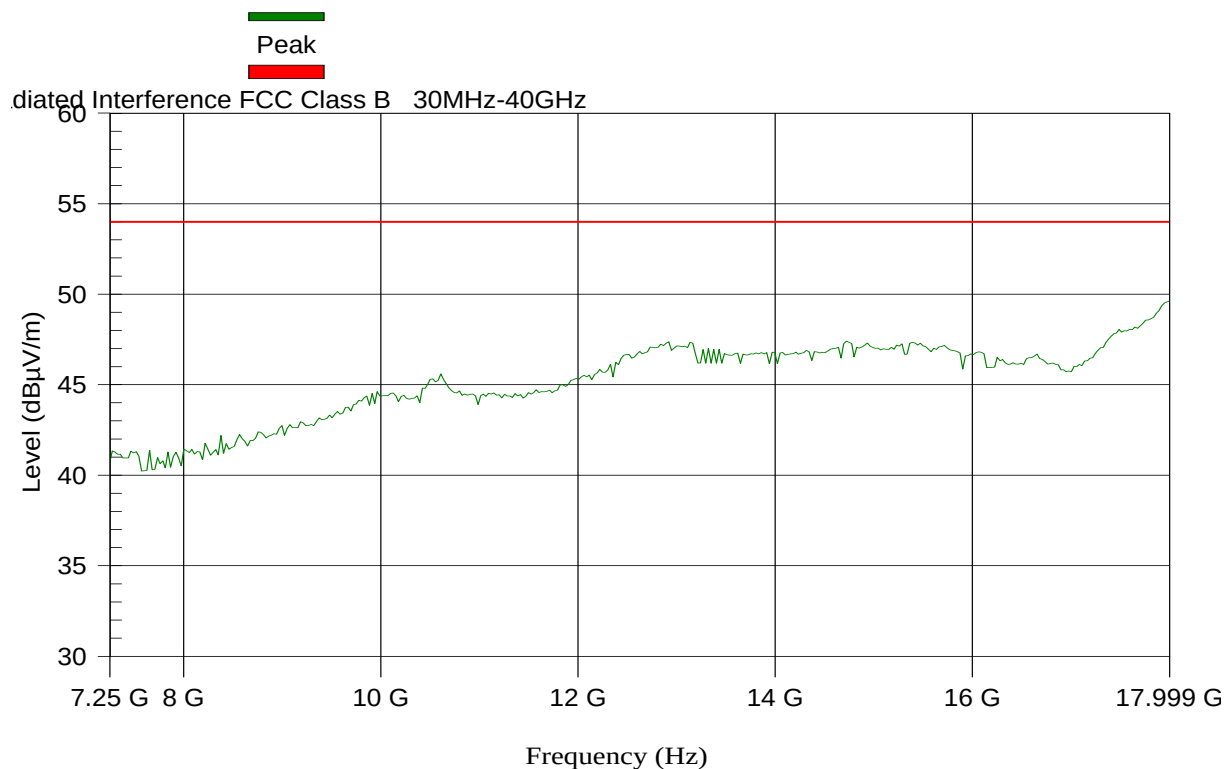
Test Results Plot No 109

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:22:21 AM

AVG; 23dBi_ANT; MID_5790 MHz-BW=10 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.6		0	1.6	H

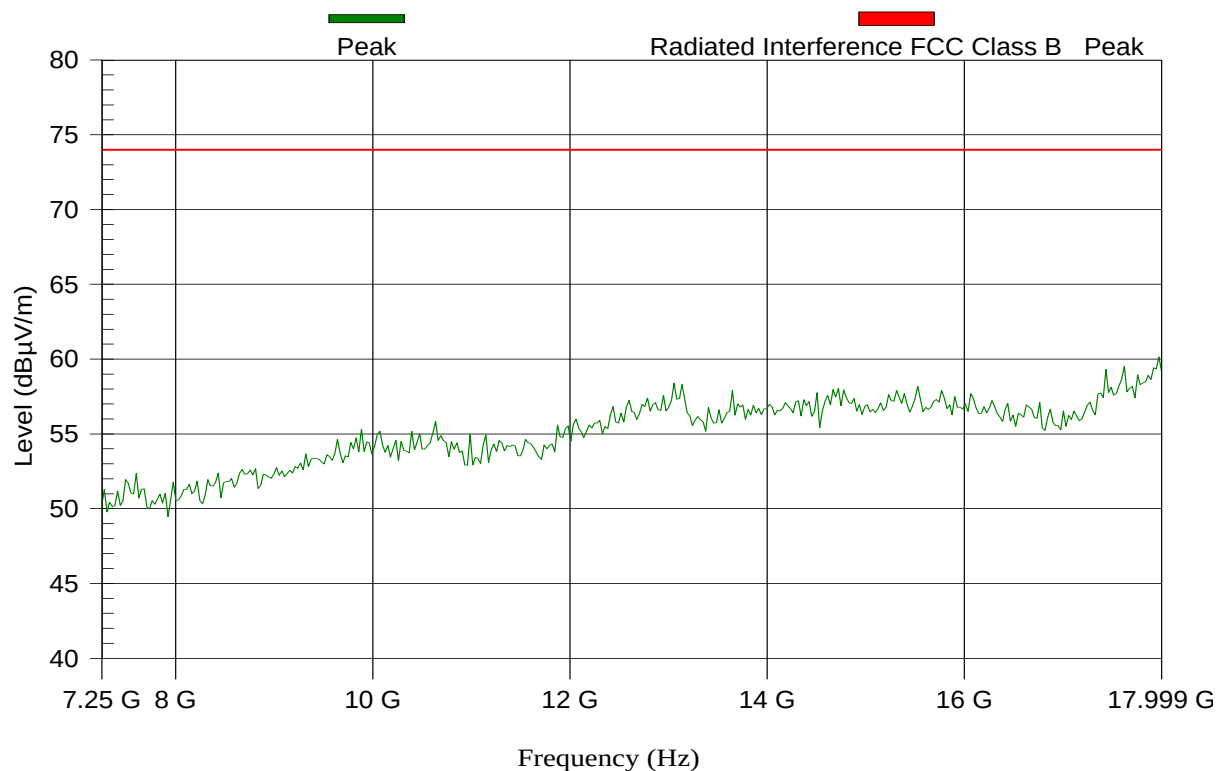
Test Results Plot No 110

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:25:53 AM

PEAK; 23dBi_ANT; MID_5790 MHz-BW=10 MHZ; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

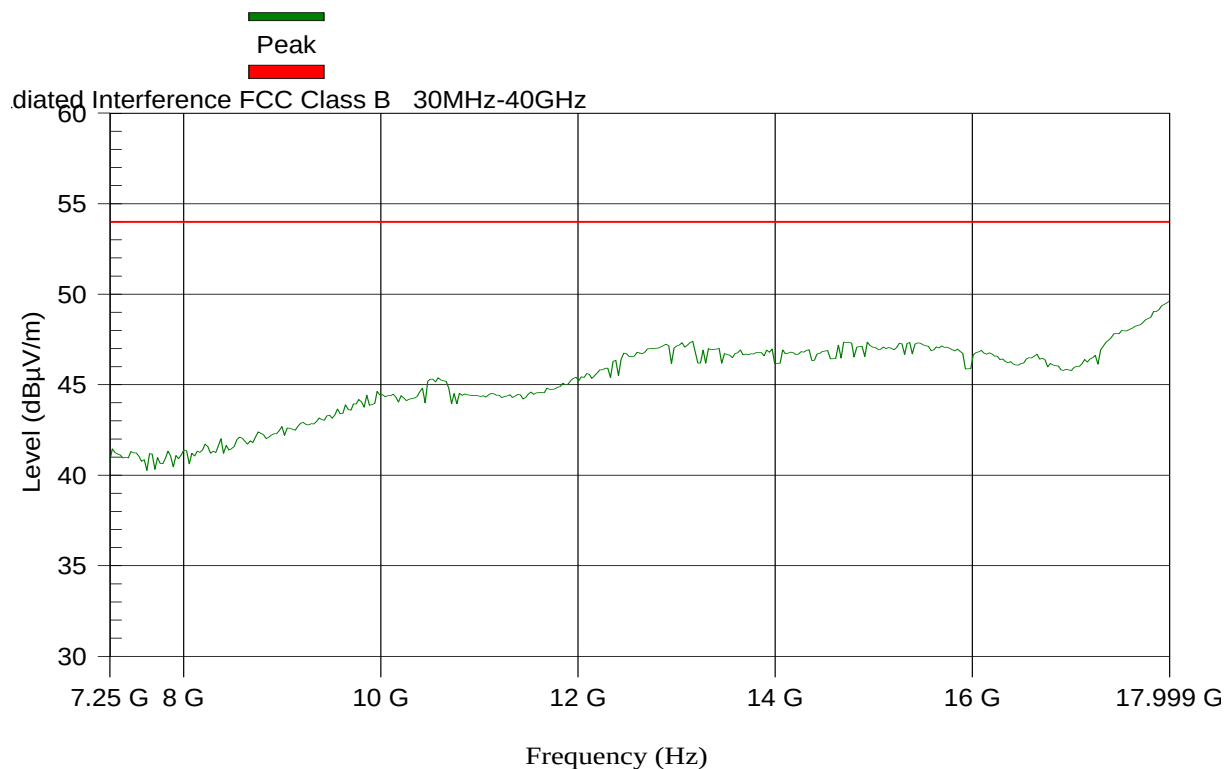
Test Results Plot No 111

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:30:17 AM

AVG; 23dBi_ANT; HIGH_5840 MHz-BW=10 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.6		0	1.4	H

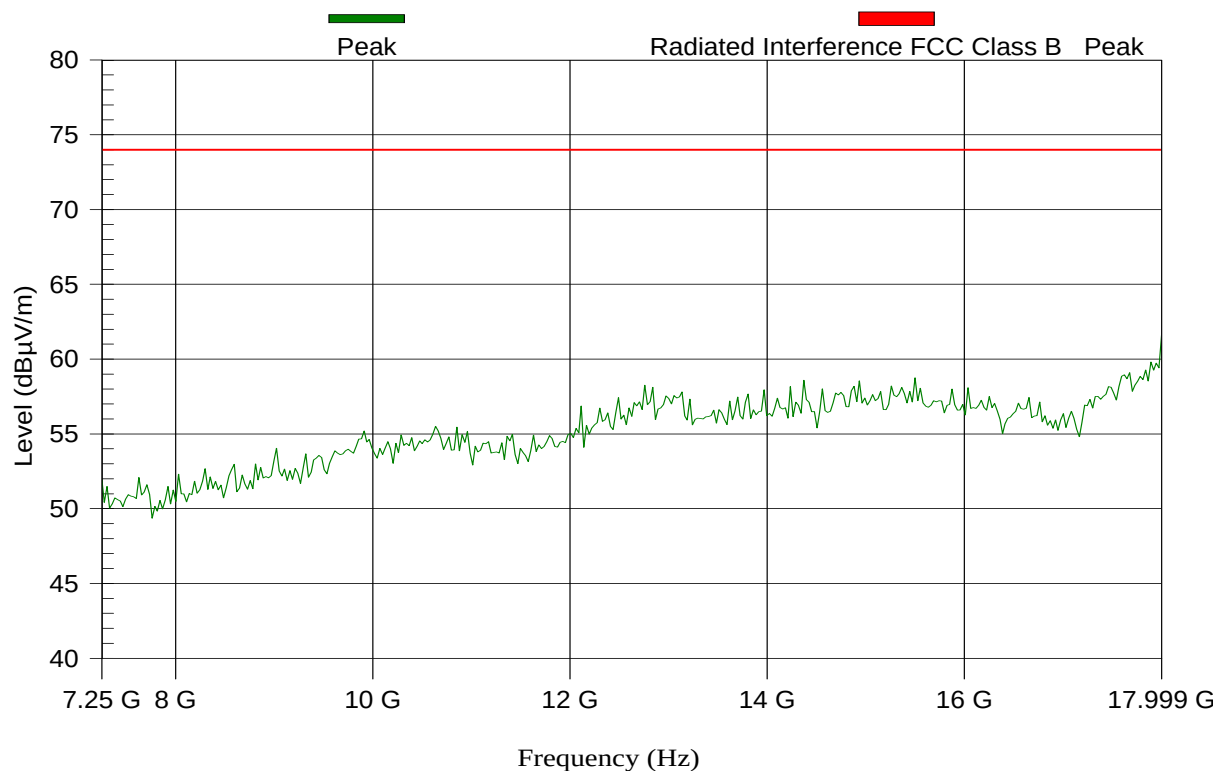
Test Results Plot No 112

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:34:13 AM

PEAK; 23dBi_ANT; HIGH_5840 MHz-BW=10 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

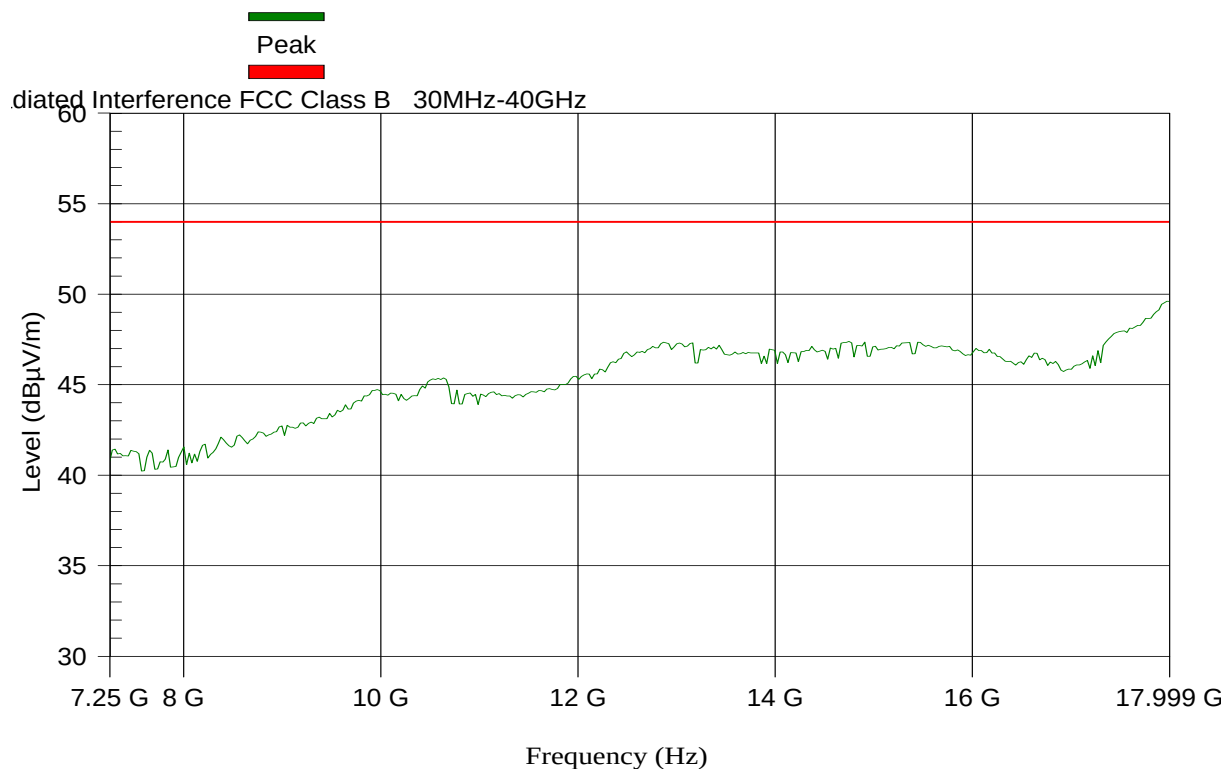
Test Results Plot No 113

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:42:44 AM

AVG; 23dBi_ANT; LOW_5735 MHz-BW=20 MHZ; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17972.127	49.6		0	1.2	V

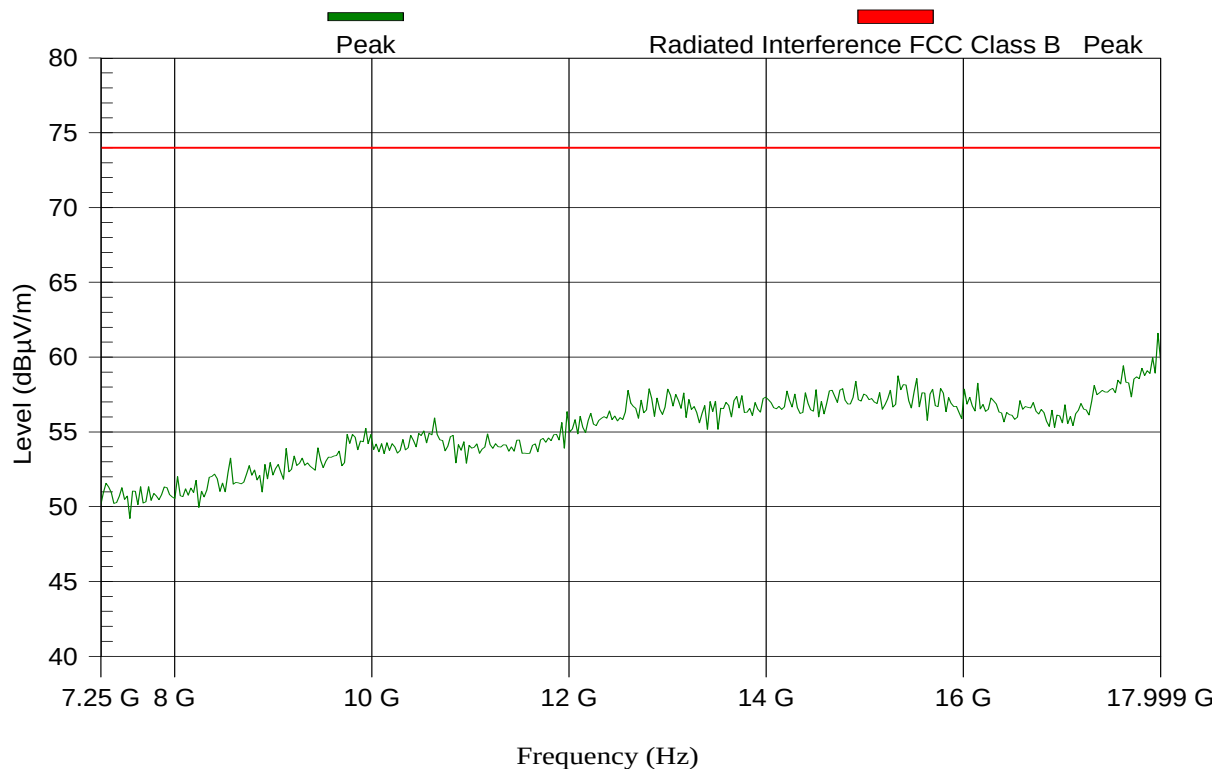
Test Results Plot No 114

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:38:32 AM

PEAK; 23dBi_ANT; LOW_5735 MHz-BW=20 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

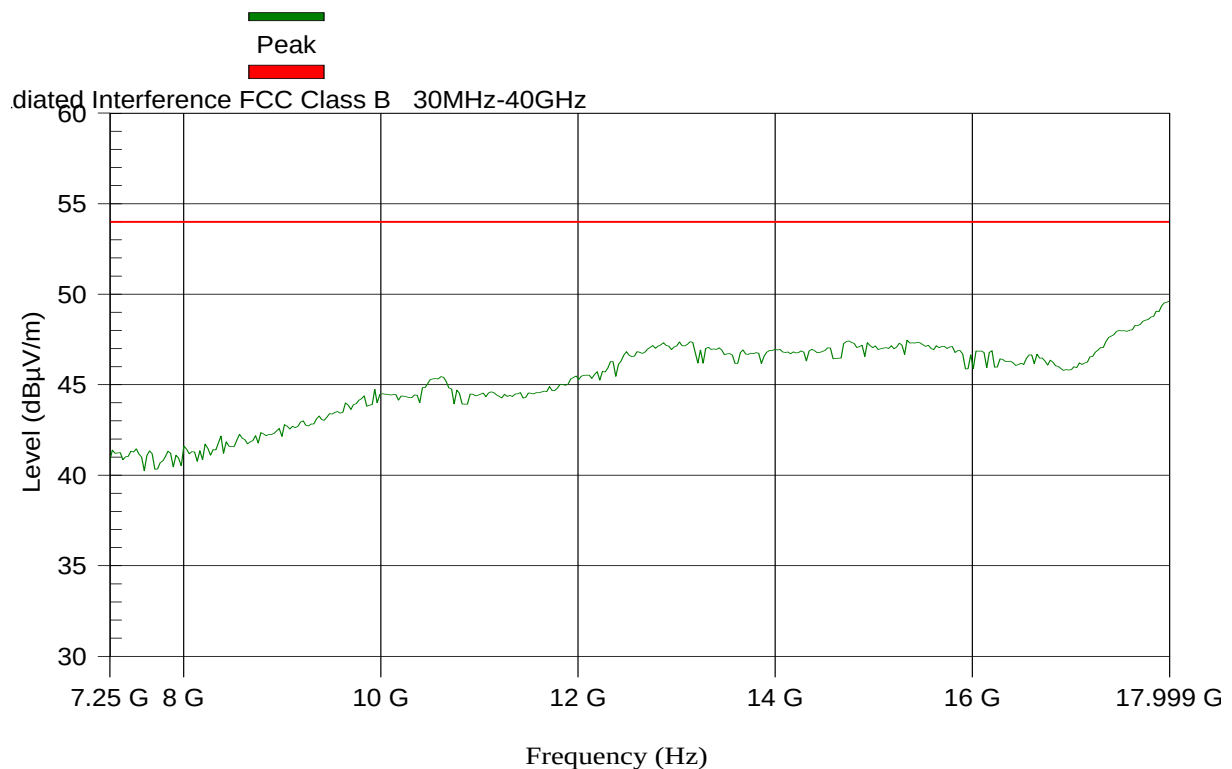
Test Results Plot No 115

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:48:19 AM

AVG; 23dBi_ANT; MID_5790 MHz-BW=20 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.6		0	1.4	H

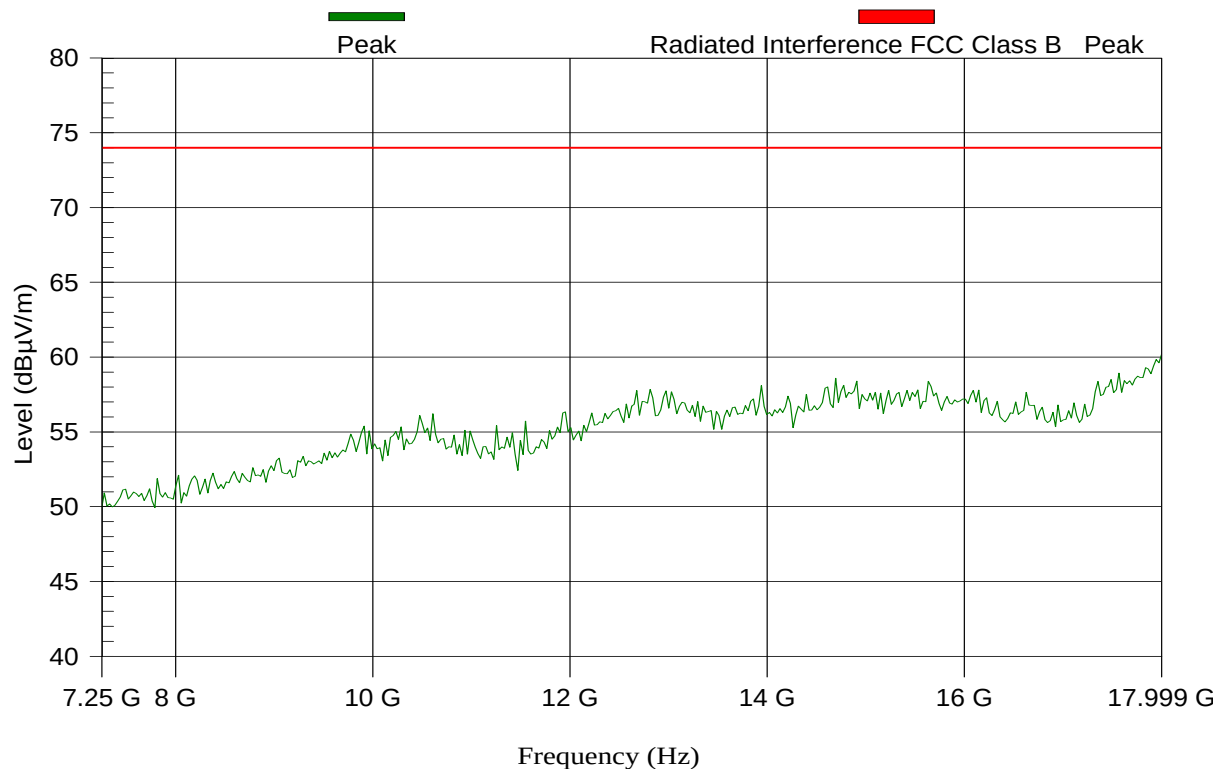
Test Results Plot No 116

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:52:17 AM

PEAK; 23dBi_ANT; MID_5790 MHz-BW=20 MHZ; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

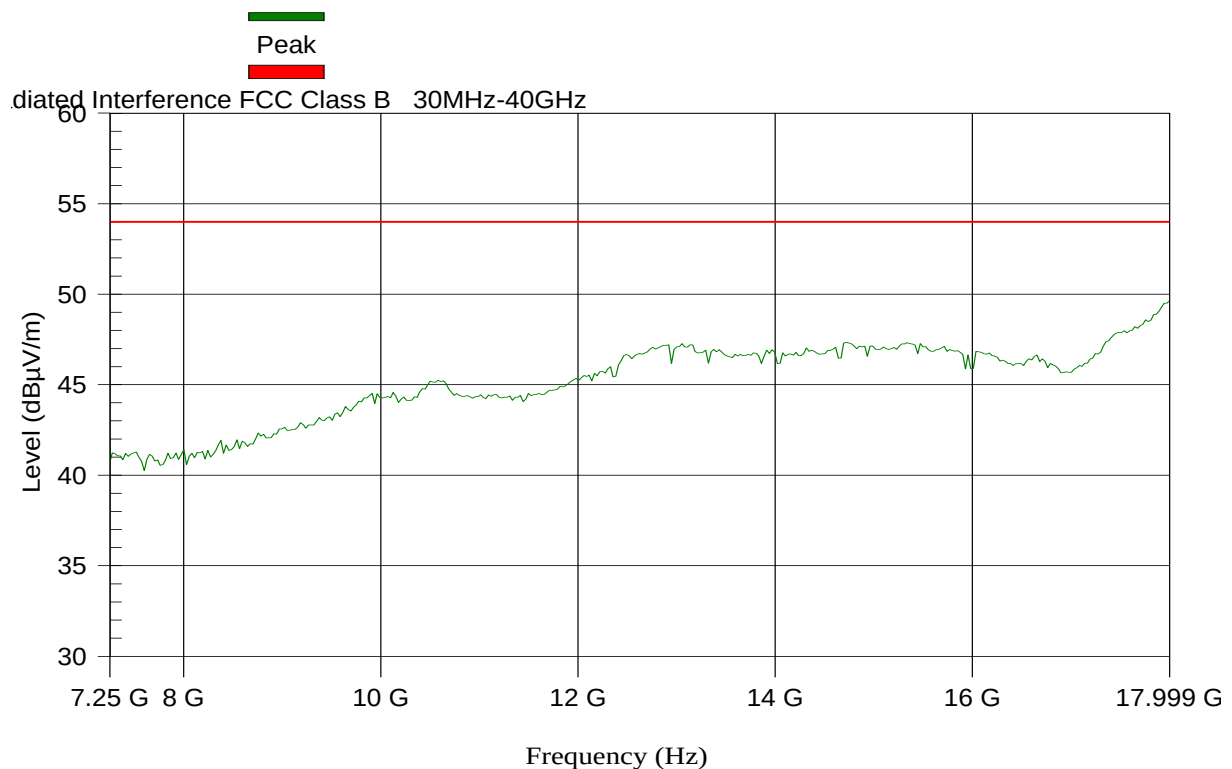
Test Results Plot No 117

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 12:00:35 PM

AVG; 23dBi_ANT; HIGH_5840 MHz-BW=20 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.6		0	1.2	H

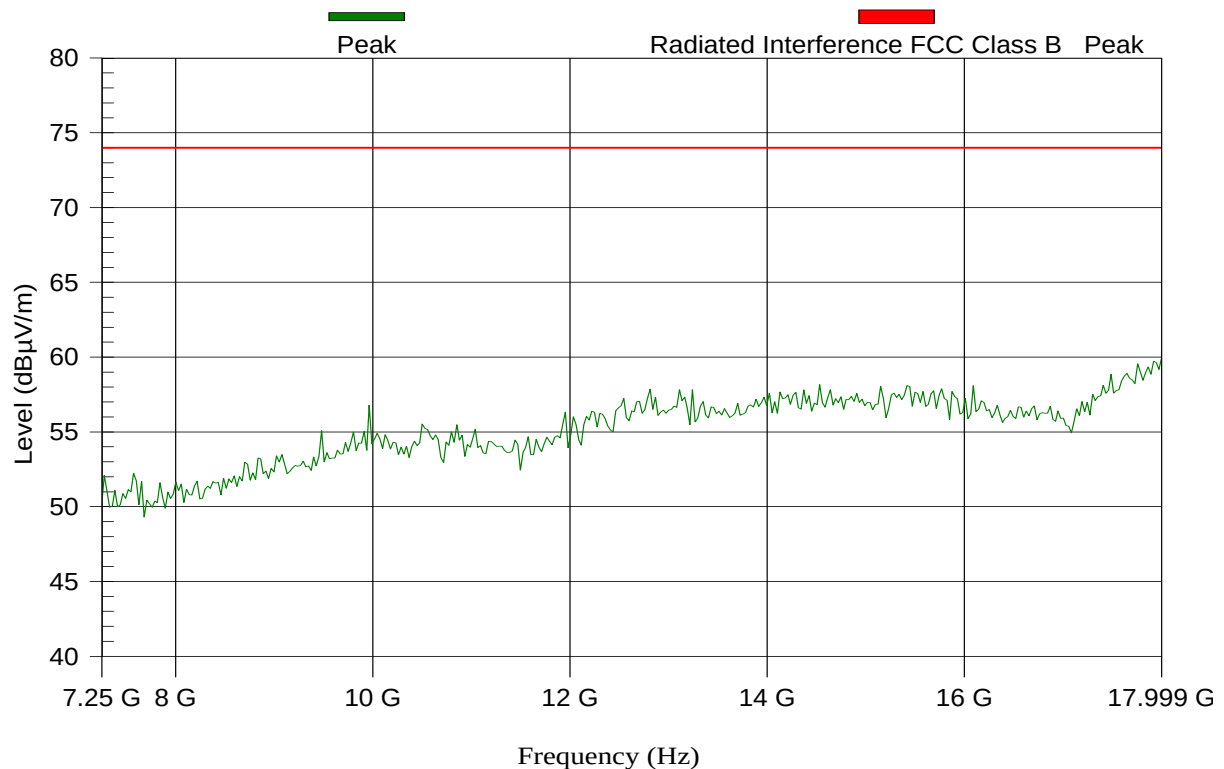
Test Results Plot No 118

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 11:56:10 AM

PEAK; 23dBi_ANT; HIGH_5840 MHz-BW=20 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

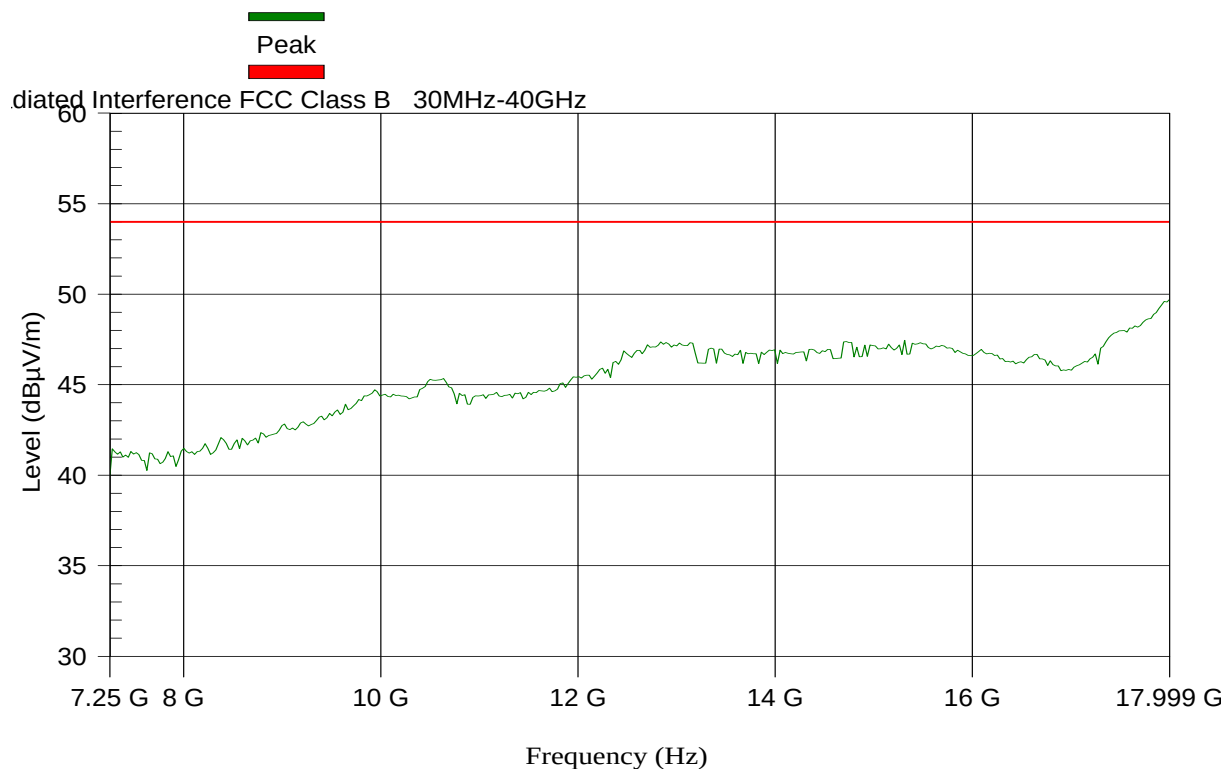
Test Results Plot No 119

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 12:08:14 PM

AVG; 23dBi_ANT; LOW_5745 MHz-BW=40 MHZ; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.7		0	1	V

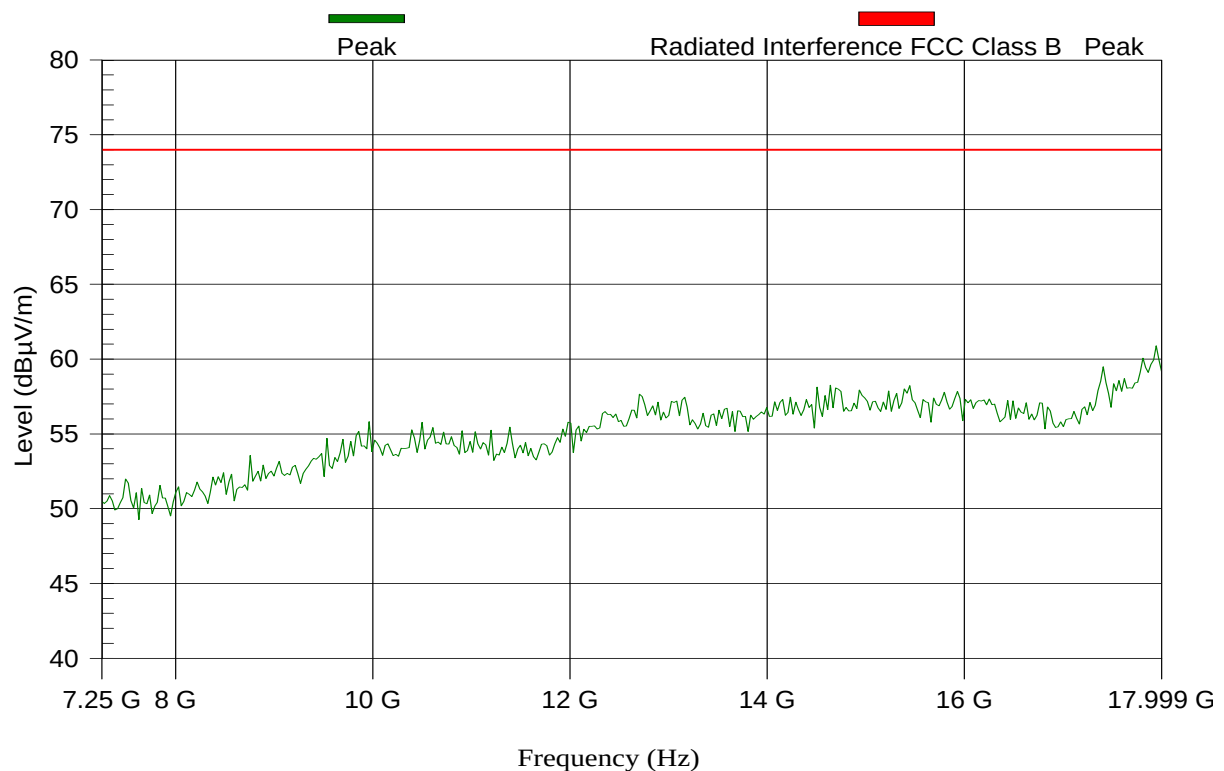
Test Results Plot No 120

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 12:05:26 PM

PEAK; 23dBi_ANT; LOW_5745 MHz-BW=40 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

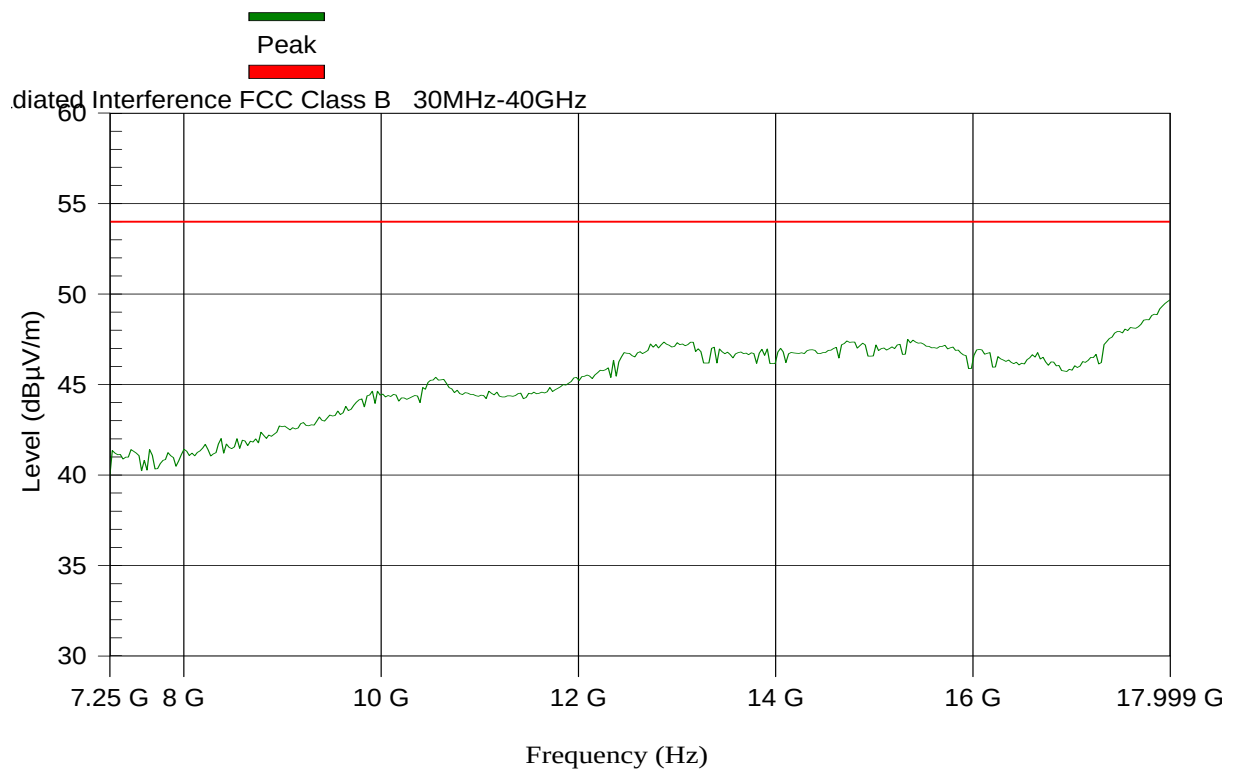
Test Results Plot No 121

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 12:16:22 PM

AVG; 23dBi_ANT; MID_5790 MHz-BW=40 MHZ; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.7		0	1.2	V

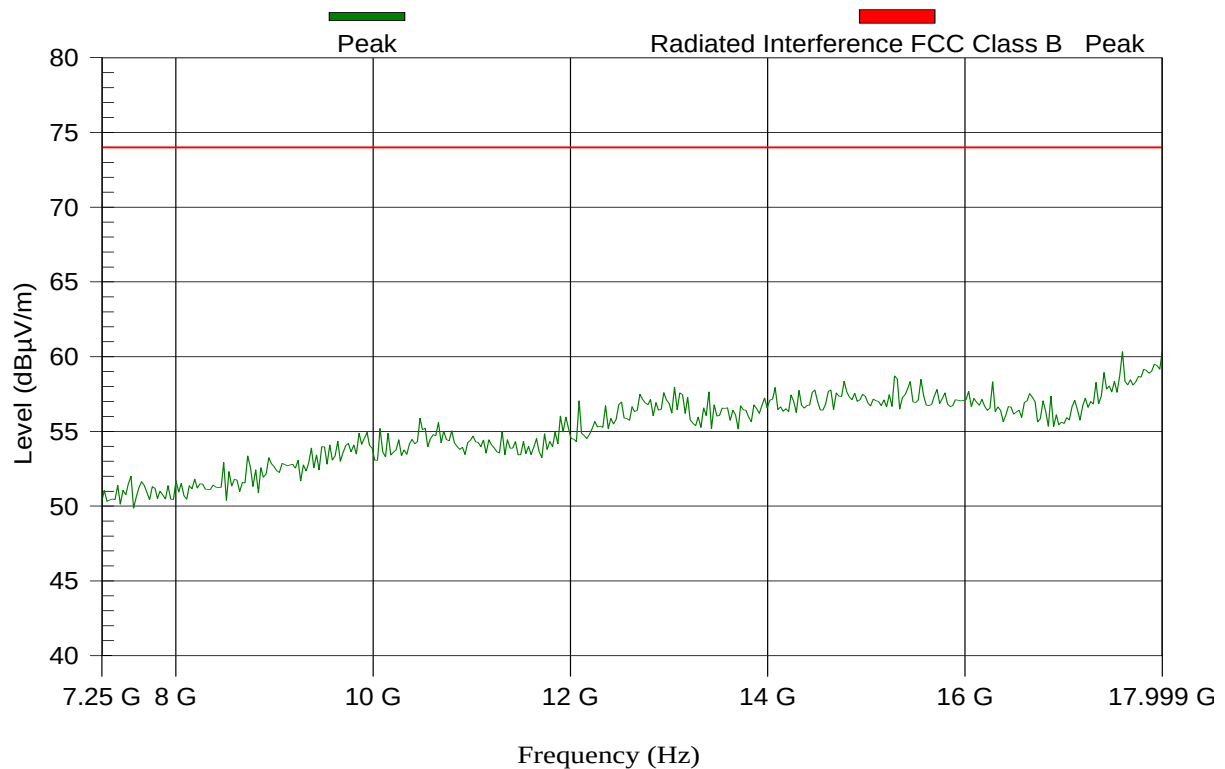
Test Results Plot No 122

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 12:12:24 PM

PEAK; 23dBi_ANT; MID_5790 MHz-BW=40 MHZ; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

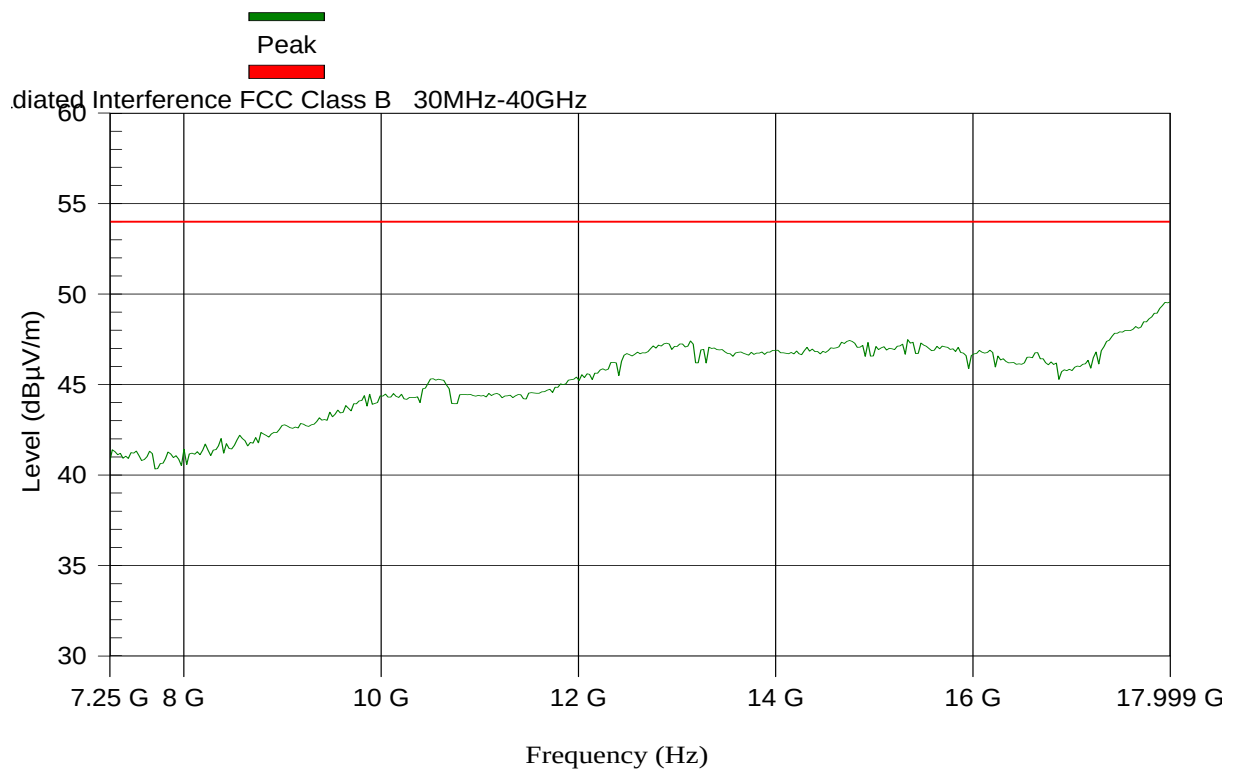
Test Results Plot No 123

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 12:21:37 PM

AVG; 23dBi_ANT; HIGH_5830 MHz-BW=40 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.6		0	1.6	H

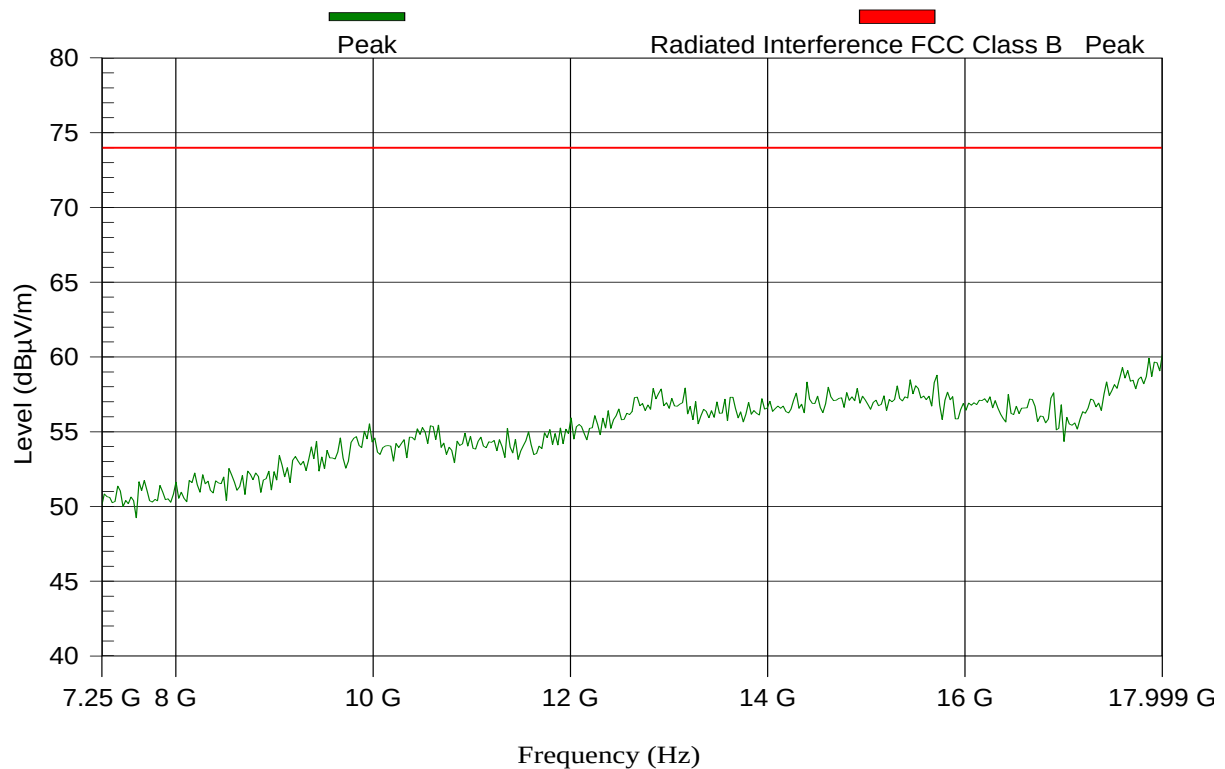
Test Results Plot No 124

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010 12:30:11 PM

PEAK; 23dBi_ANT; HIGH_5830 MHz-BW=40 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

5.9.8. Flat_23dBi_18 GHz - 26.5 GHz

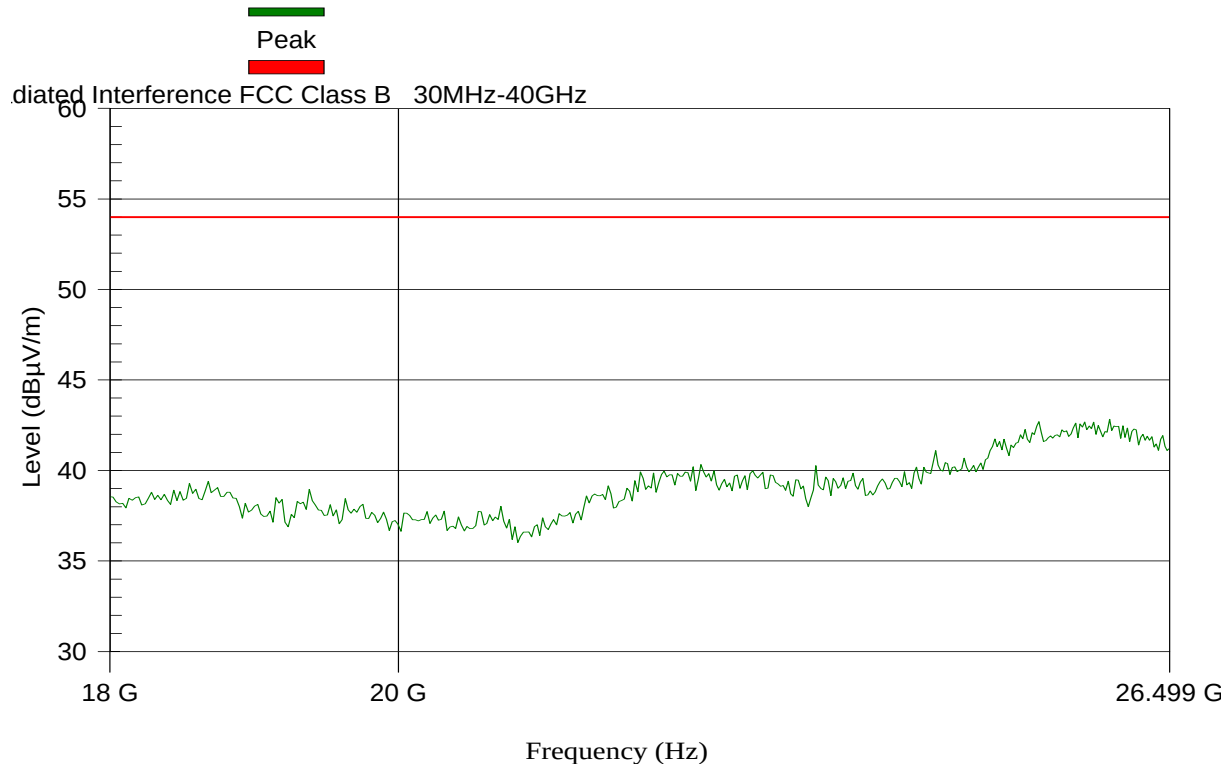
Test Results Plot No 125

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 5:25:54 PM

AVG; 23dBi_ANT; LOW_5730MHz-BW=5MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

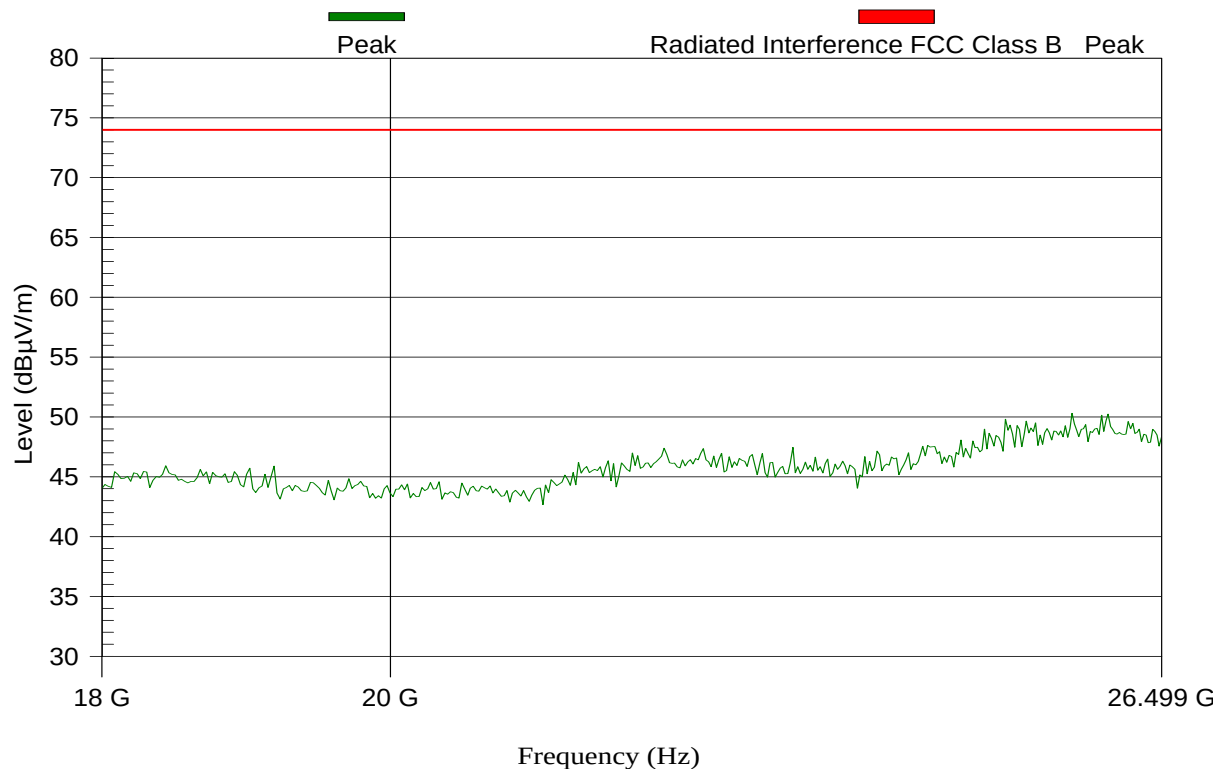
Test Results Plot No 126

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 5:28:49 PM

PEAK; 23dBi_ANT; LOW_5730MHz-BW=5MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

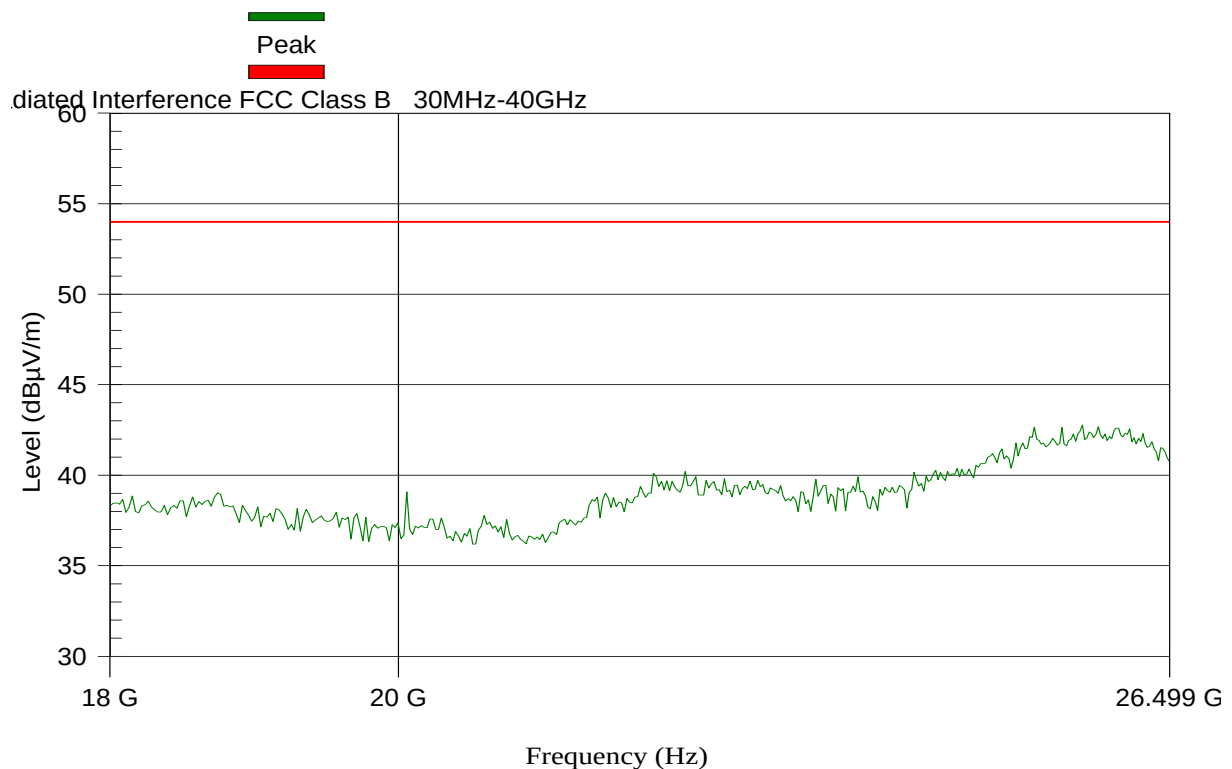
Test Results Plot No 127

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 5:33:56 PM

AVG; 23dBi_ANT; MID_5790 MHz-BW=5 MH



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

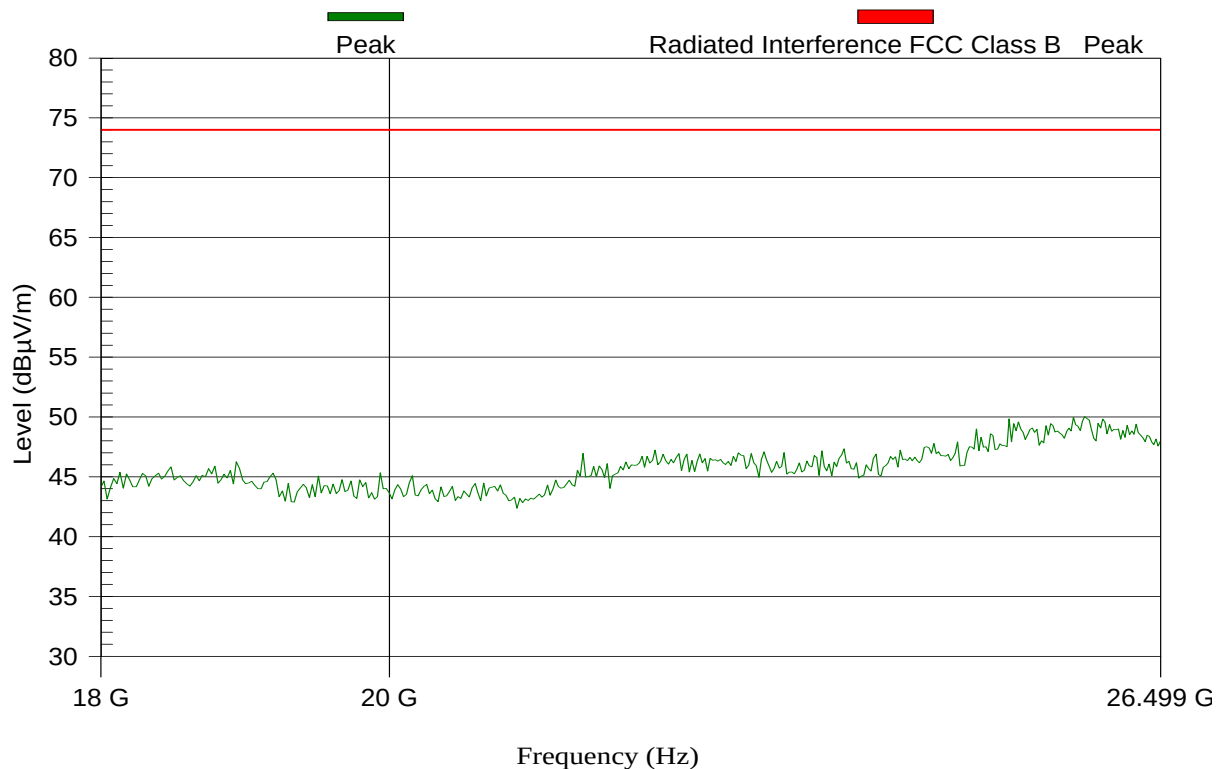
Test Results Plot No 128

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 5:33:40 PM

PEAK; 23dBi_ANT; MID_5790 MHz-BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

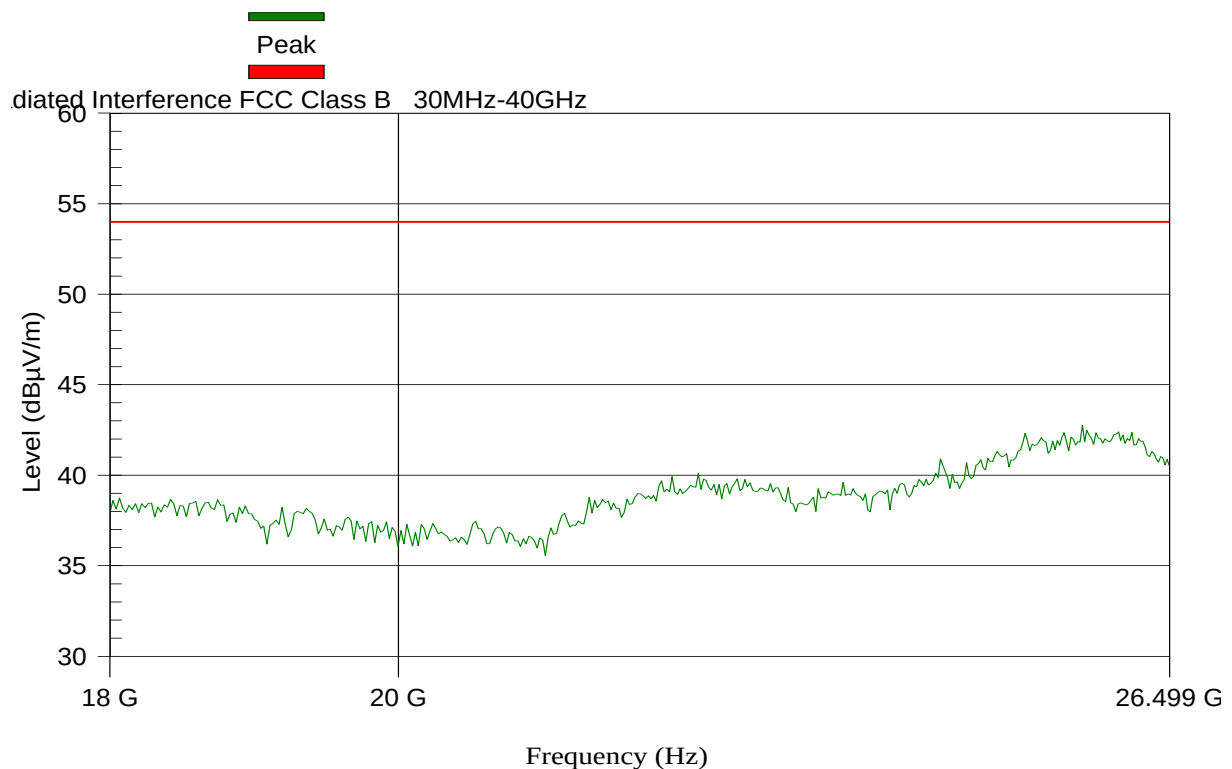
Test Results Plot No 129

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 5:36:24 PM

AVG; 23dBi_ANT; HIGH_5845 MHz-BW=5 MH



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

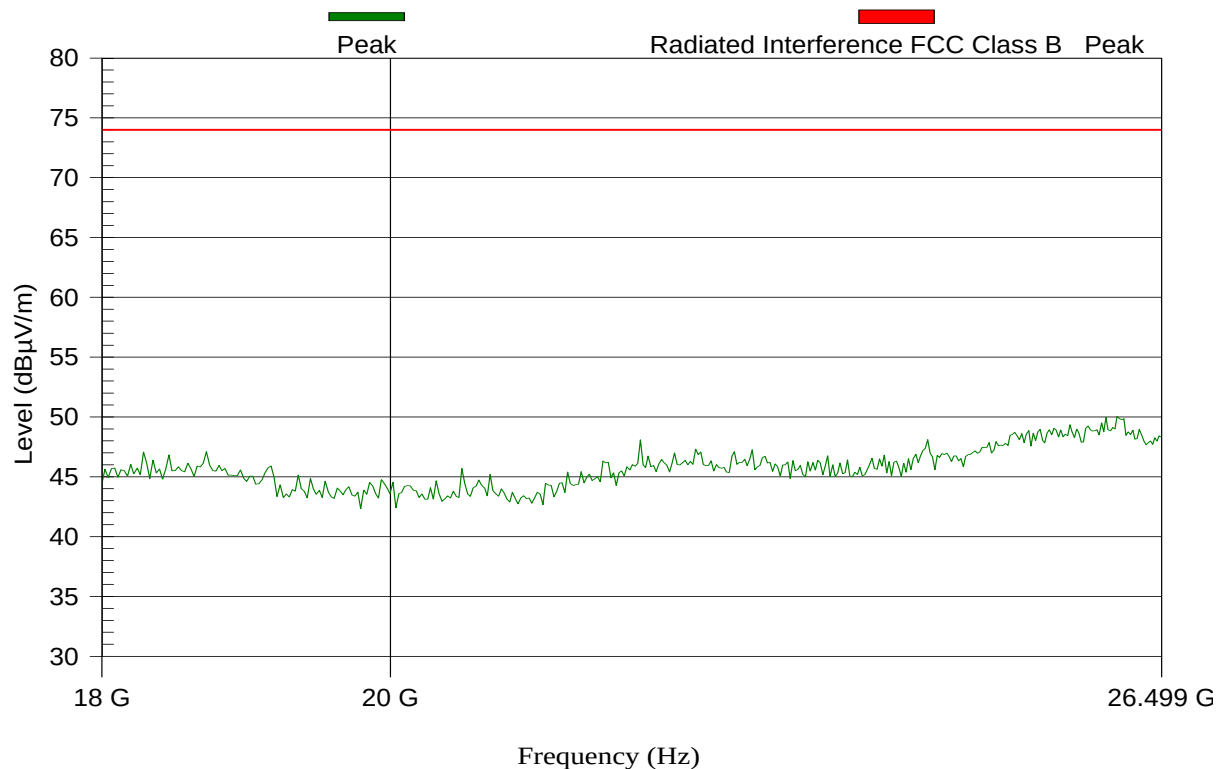
Test Results Plot No 130

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dBμV
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 5:38:17 PM

PEAK; 23dBi_ANT; HIGH_5845MHz-BW=5MH



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

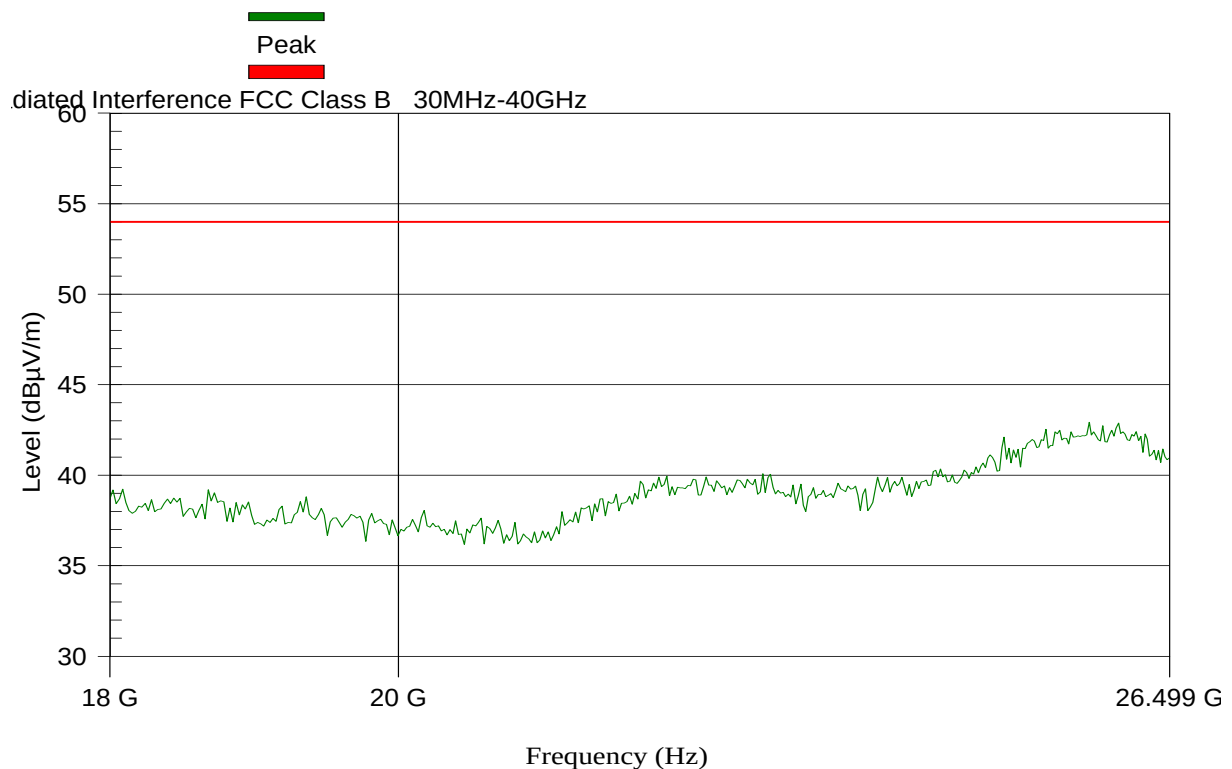
Test Results Plot No 131

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 5:41:50 PM

AVG; 23dBi_ANT; LOW_5735MHz-BW=10MH



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

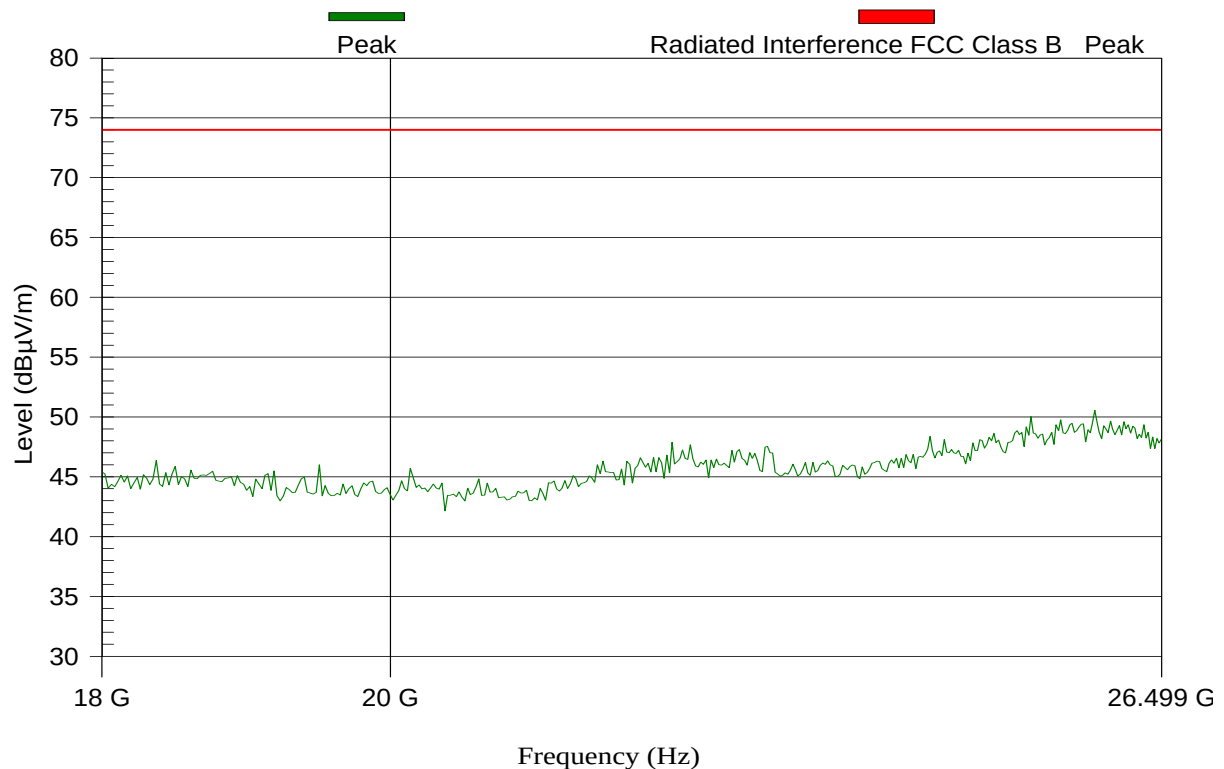
Test Results Plot No 132

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 5:43:56 PM

PEAK; 23dBi_ANT; LOW_5735MHz-BW=10MH



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

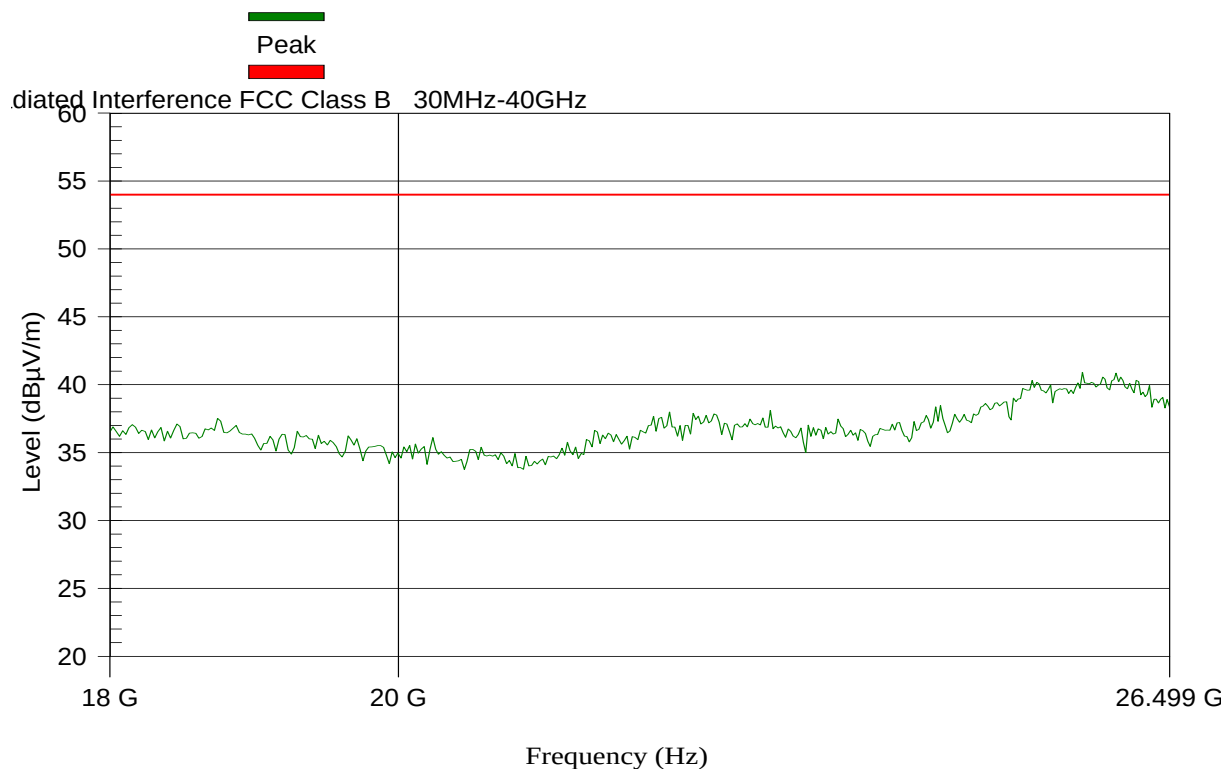
Test Results Plot No 133

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	90 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 9:33:05 AM

AVG; 23dBi_ANT; MID_5790MHz-BW=10MH



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

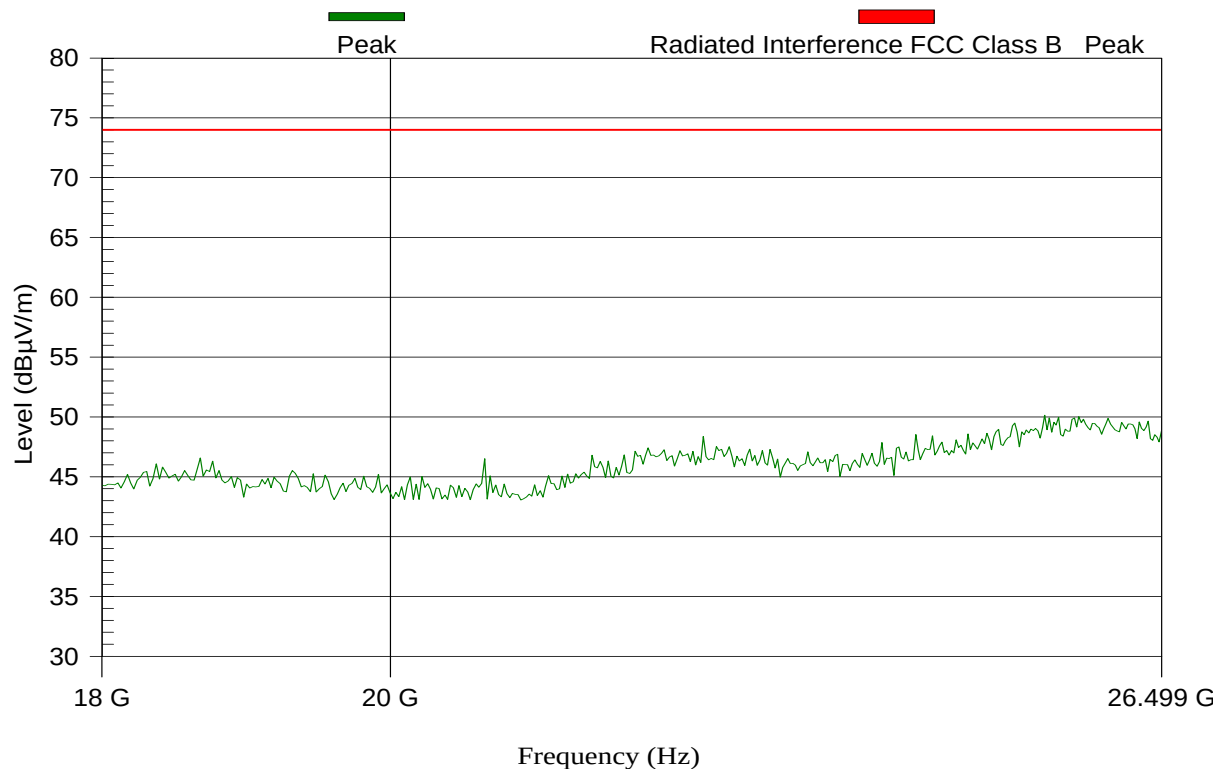
Test Results Plot No 134

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 5:46:06 PM

PEAK; 23dBi_ANT; MID_5790MHz-BW=10MH



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

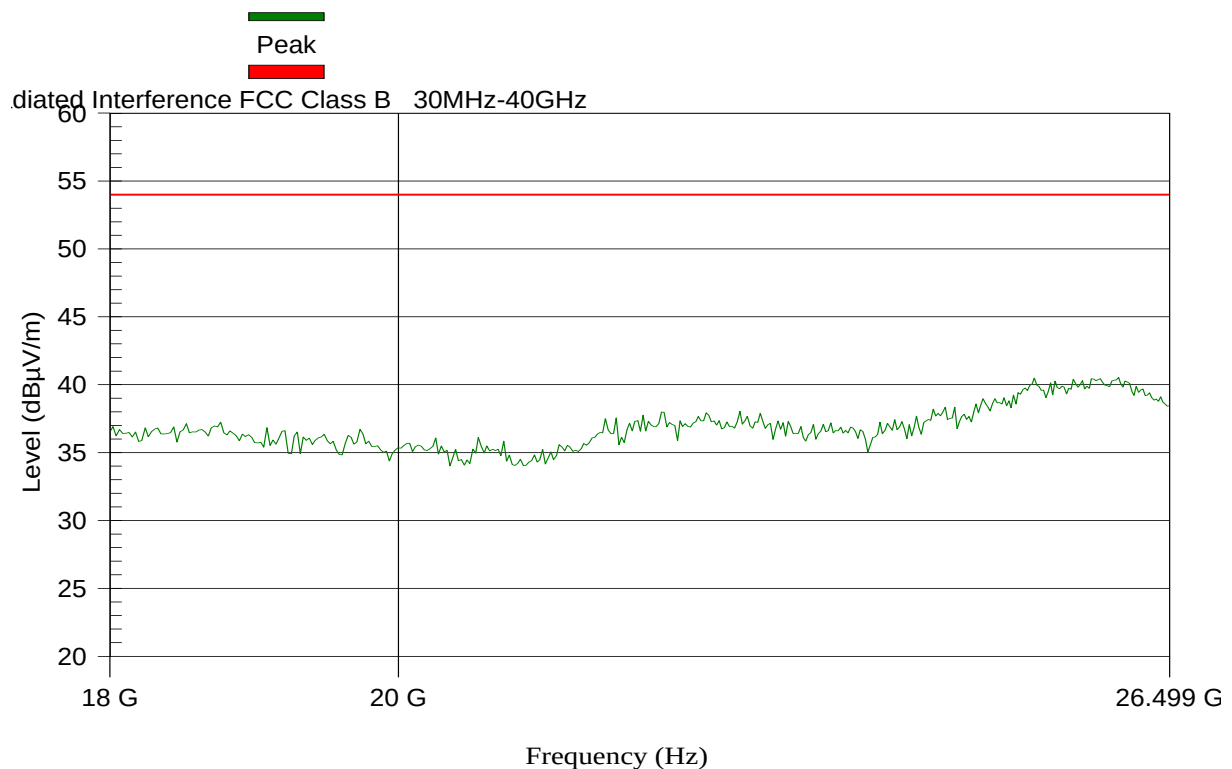
Test Results Plot No 135

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	90 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 9:35:23 AM

AVG; 23dBi_ANT; HIGH_5840MHz-BW=10MH



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

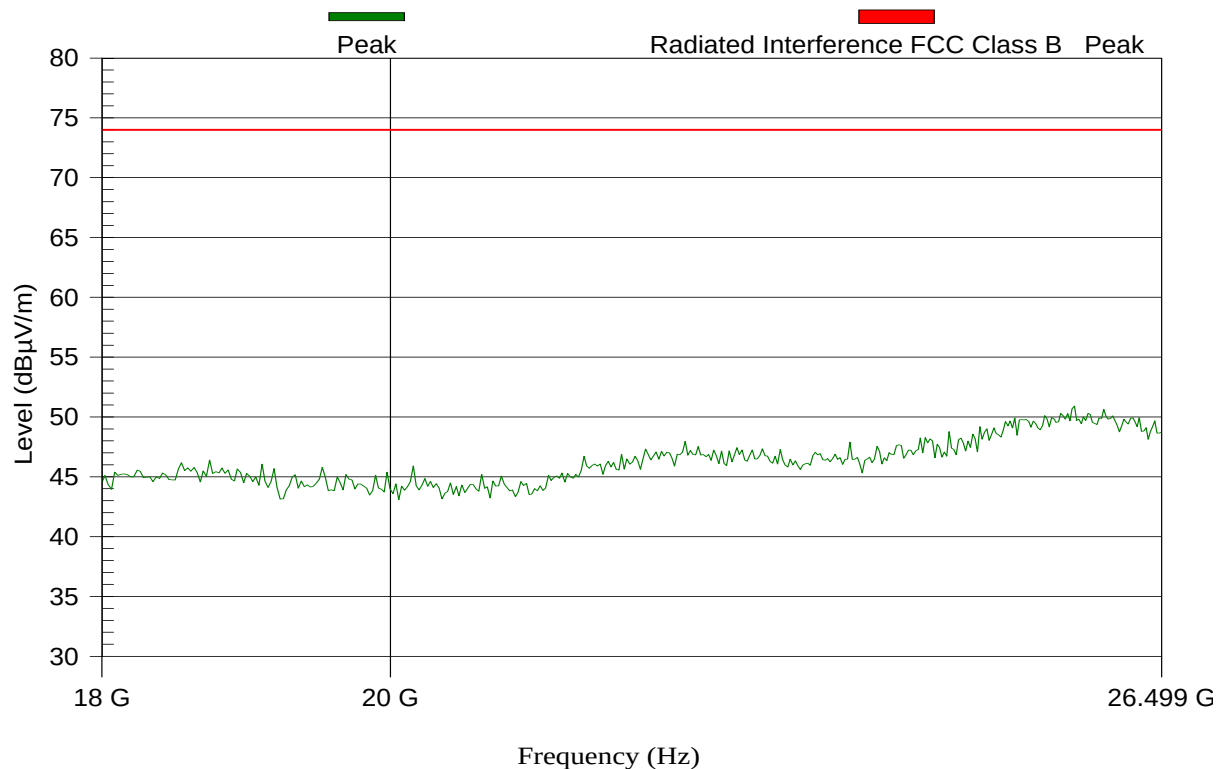
Test Results Plot No 136

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 9:38:17 AM

PEAK; 23dBi_ANT; HIGH_5840MHz-BW=10MH



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

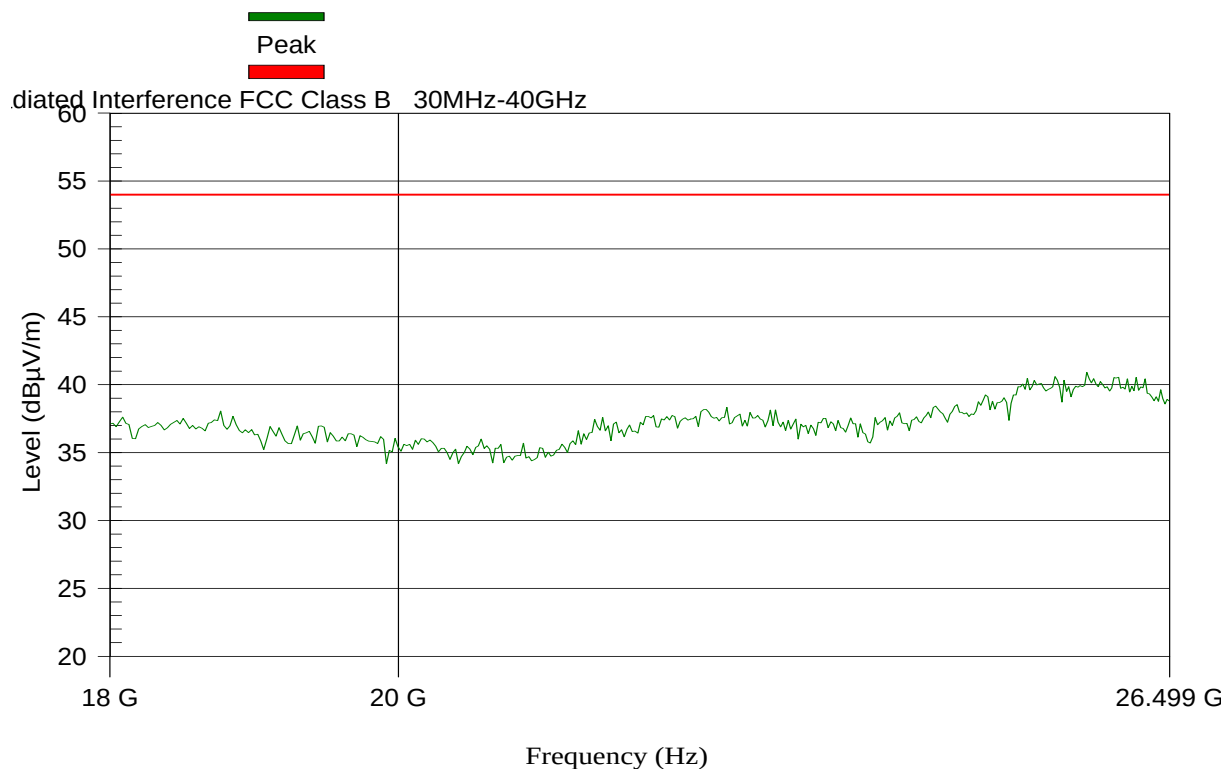
Test Results Plot No 137

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	90 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 9:41:32 AM

AVG; 23dBi_ANT; LOW_5735MHz-BW=20MHZ



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

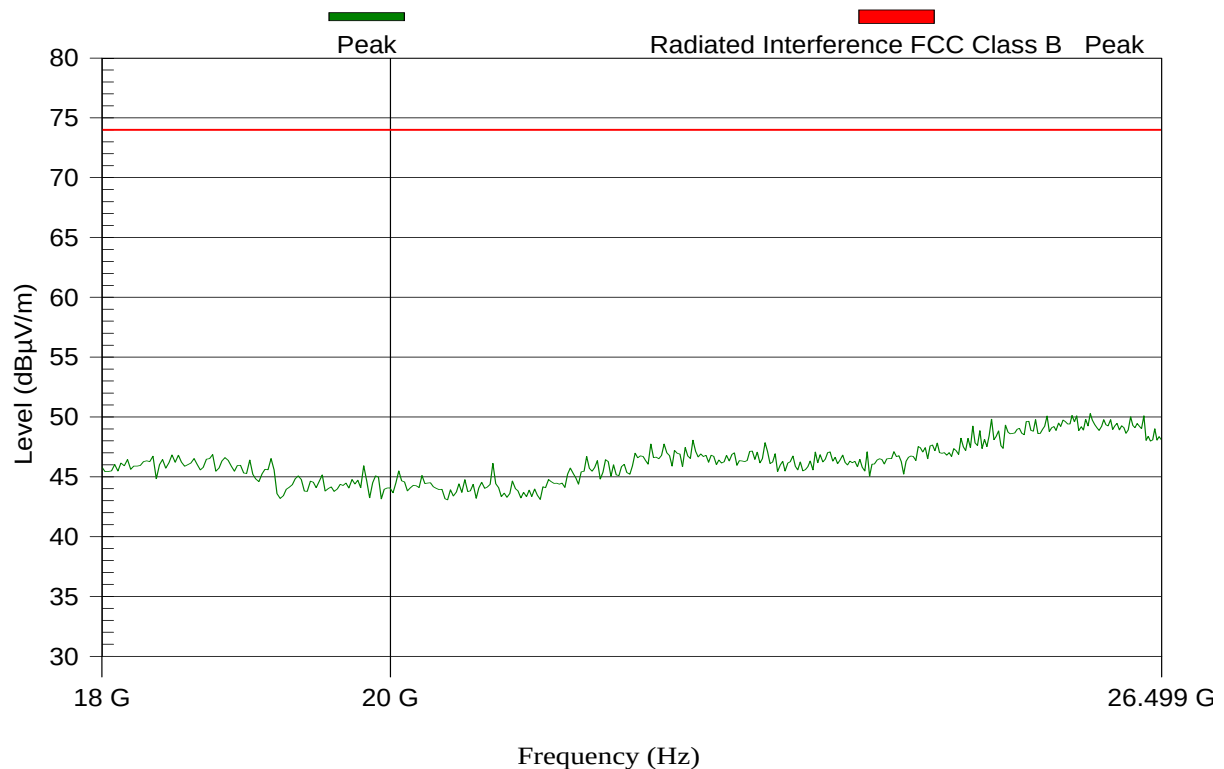
Test Results Plot No 138

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 9:45:29 AM

PEAK; 23dBi_ANT; LOW_5735MHz-BW=20MHZ



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

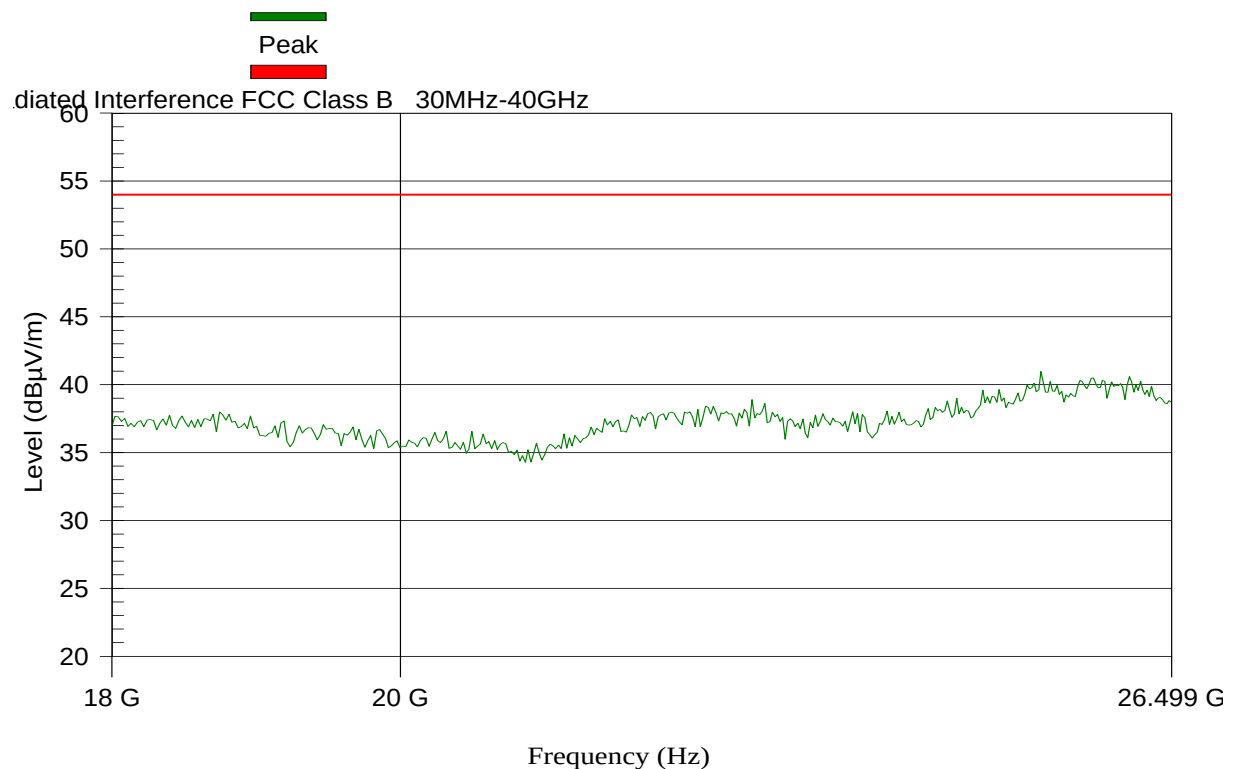
Test Results Plot No 139

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	90 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 9:50:46 AM

AVG; 23dBi_ANT; MID_5790MHz-BW=20MHZ



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

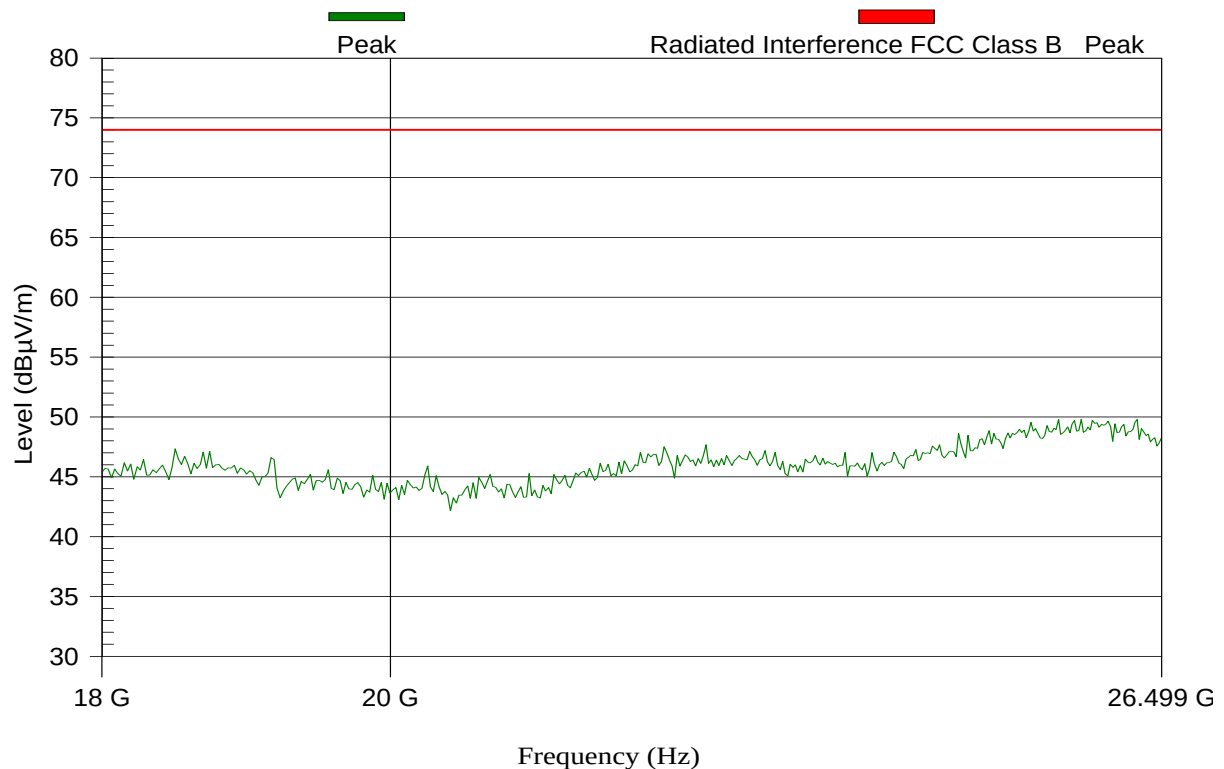
Test Results Plot No 140

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dBμV
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 9:48:44 AM

PEAK; 23dBi_ANT; MID_5790MHz-BW=20MHZ



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

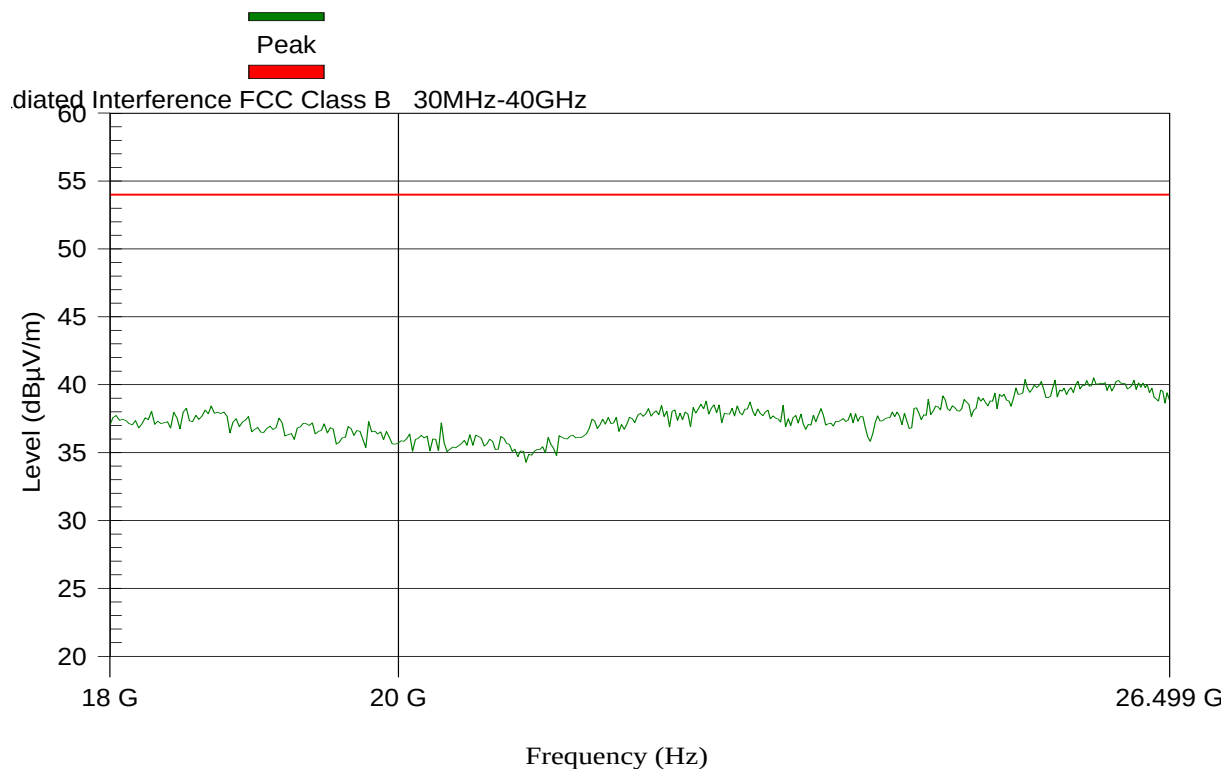
Test Results Plot No 141

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	90 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 9:57:35 AM

AVG; 23dBi_ANT; HIGH_5840MHz-BW=20MHZ



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

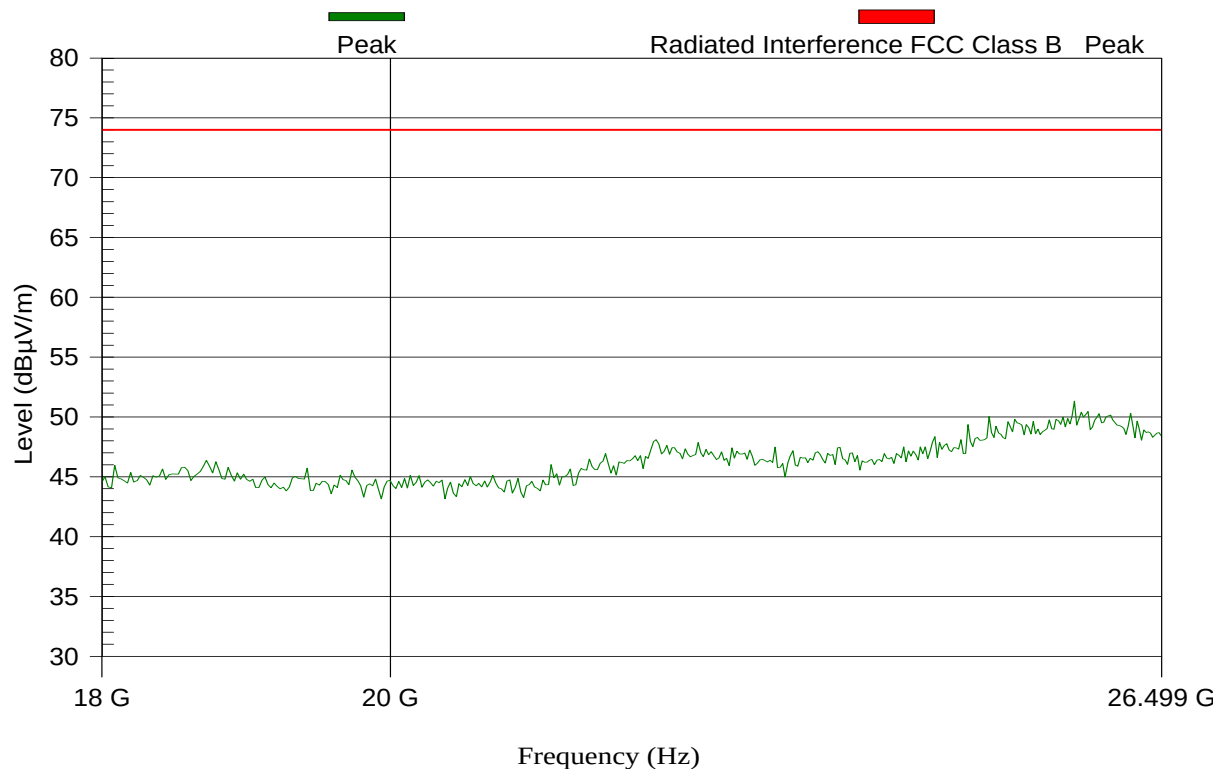
Test Results Plot No 142

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 9:53:27 AM

PEAK; 23dBi_ANT; HIGH_5840MHz-BW=20MHZ



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

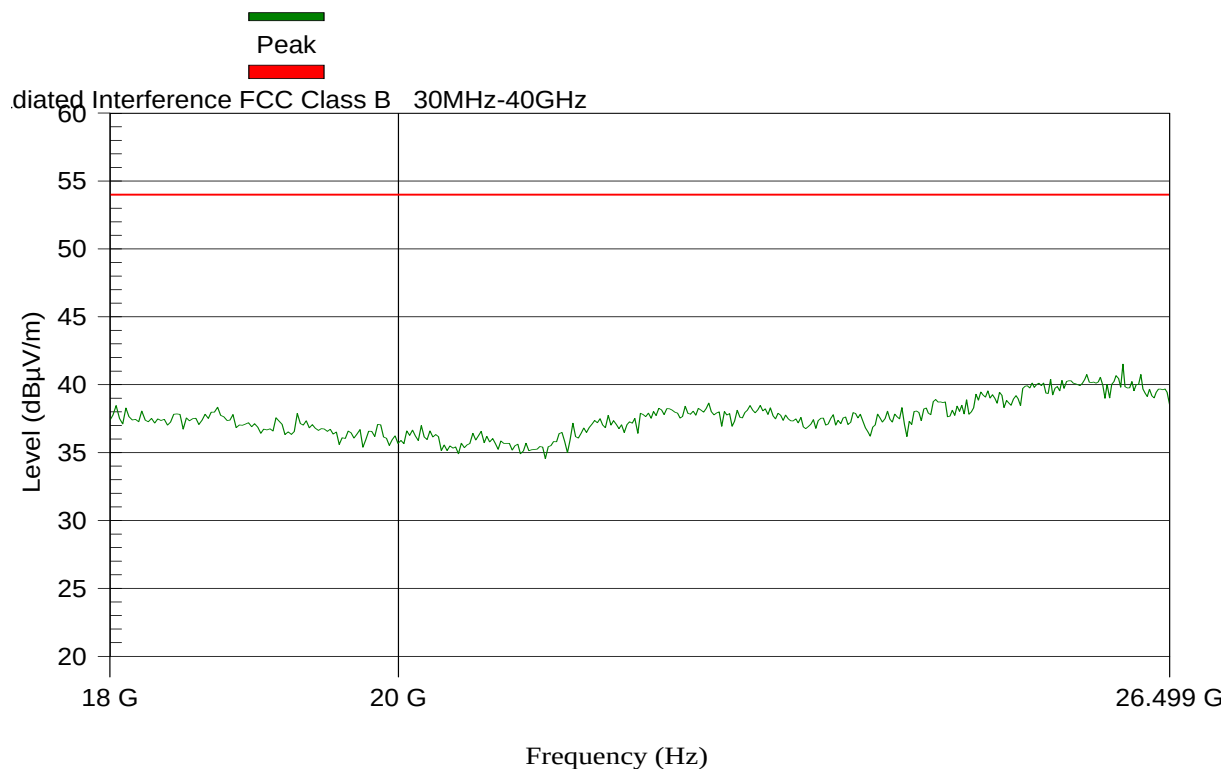
Test Results Plot No 143

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	90 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 10:01:28 AM

AVG; 23dBi_ANT; LOW_5745MHz-BW=40MHZ



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

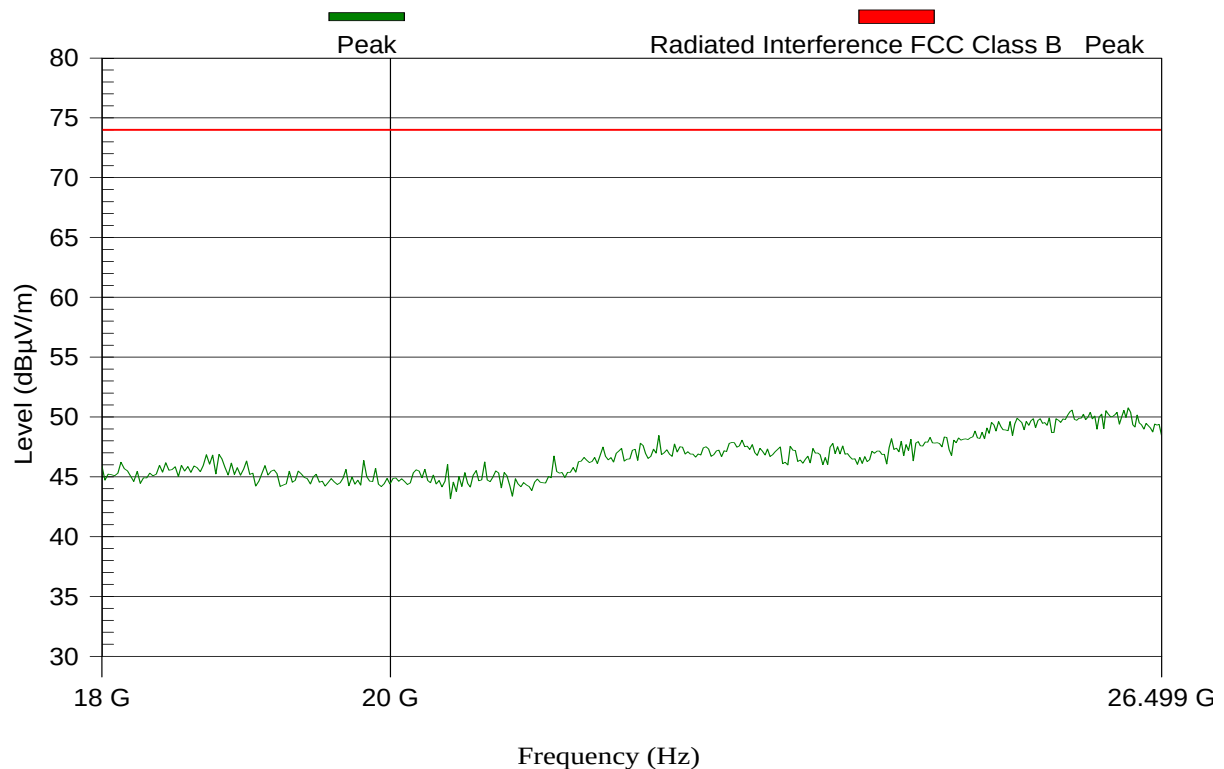
Test Results Plot No 144

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 10:06:53 AM

PEAK; 23dBi_ANT; LOW_5745MHz-BW=40MHZ



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

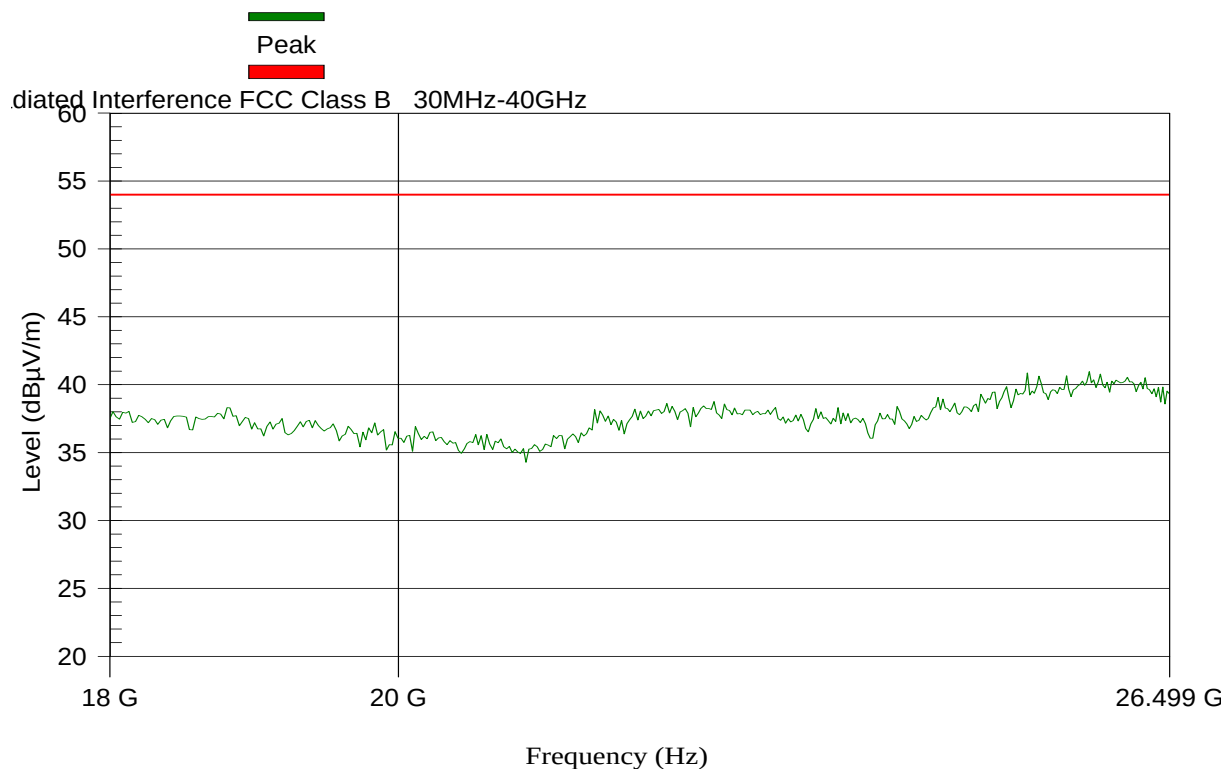
Test Results Plot No 145

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	90 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 10:10:41 AM

AVG; 23dBi_ANT; MID_5790MHz-BW=40MHZ



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

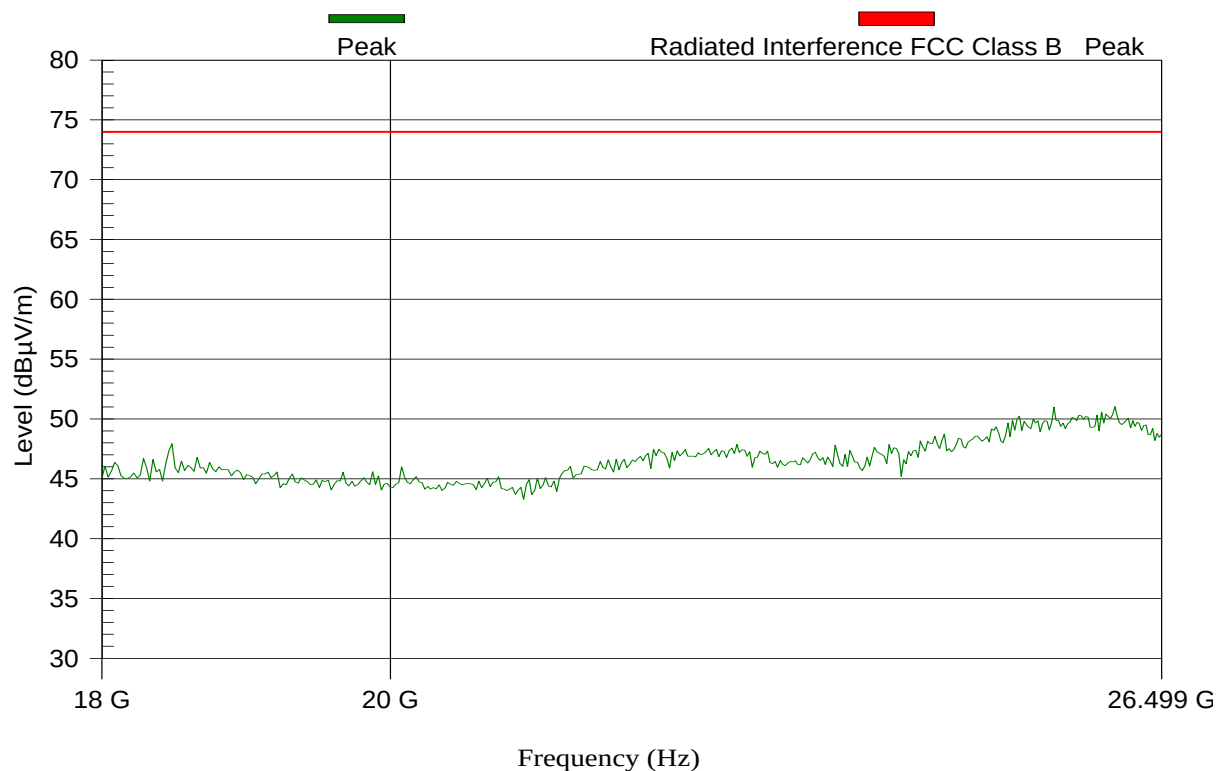
Test Results Plot No 146

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dBμV
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 10:14:41 AM

PEAK; 23dBi_ANT; MID_5790MHz-BW=40MHZ



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

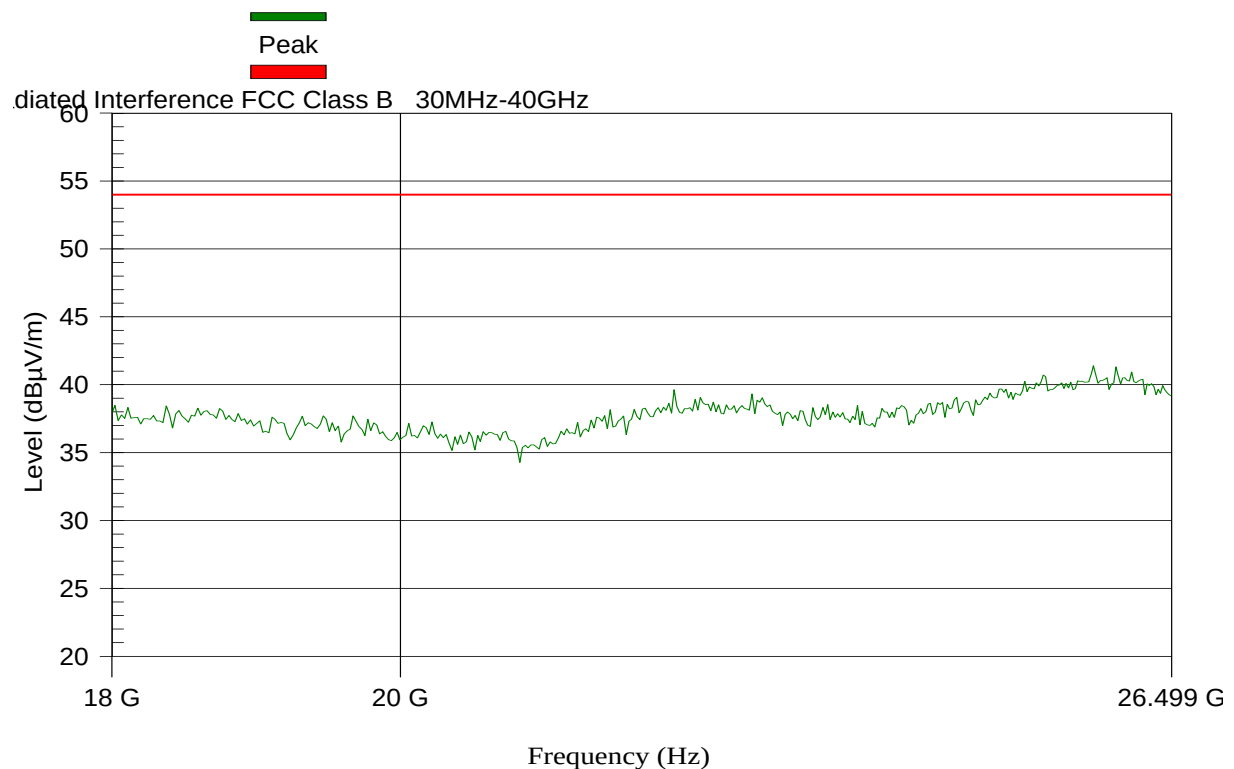
Test Results Plot No 147

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	90 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 10:18:47 AM

AVG; 23dBi_ANT; HIGH_5830MHz-BW=40MHZ



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

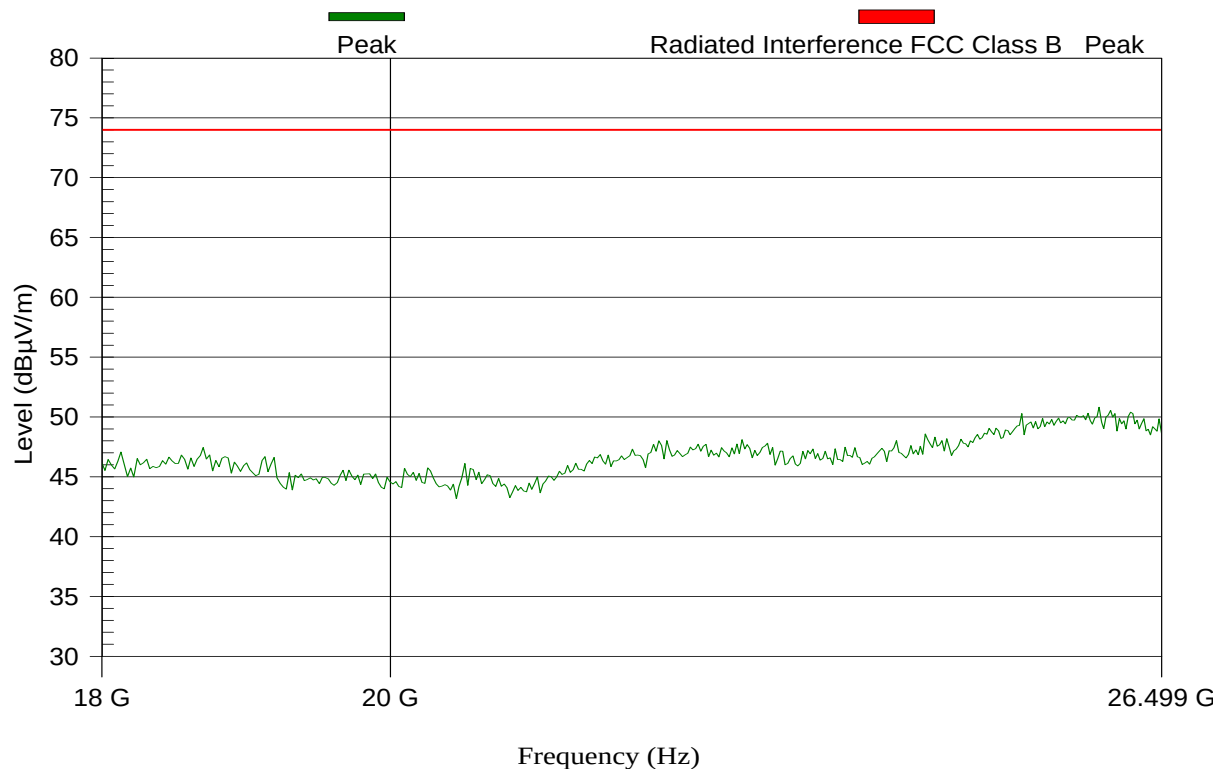
Test Results Plot No 148

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C26FBE03	Ref. Level:	Auto: 120 dB μ V
Date of Test:	03.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Wednesday, February 03, 2010 10:22:49 AM

PEAK; 23dBi_ANT; HIGH_5830MHZ-BW=40MHZ



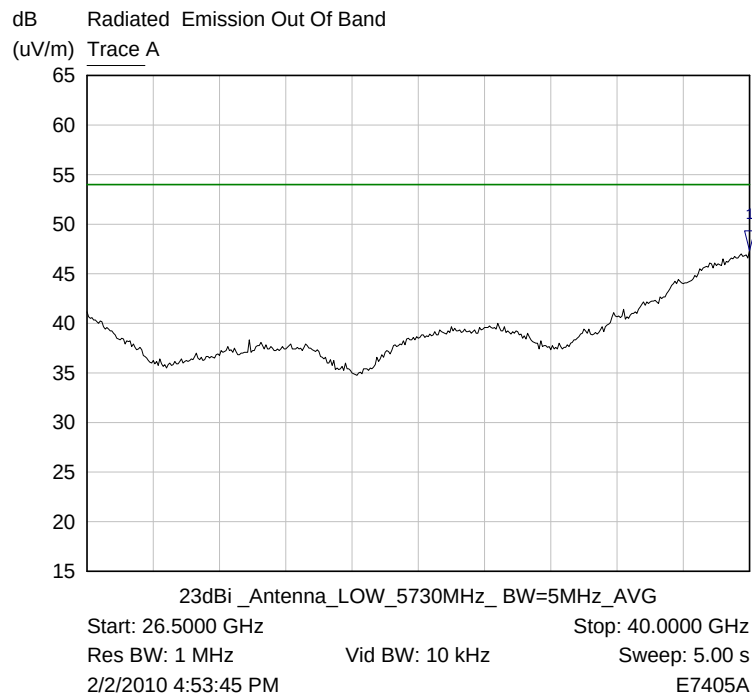
MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

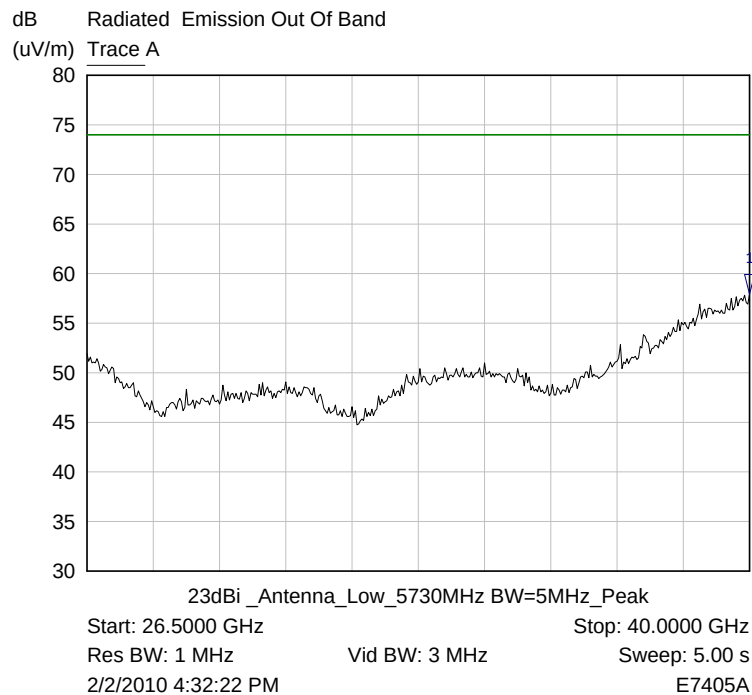
5.9.9. Flat_23dBi_Antenna26.5 GHz – 40 GHz

5.9.9.1. Out of Band



Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	40.0000 GHz	47.36 dB(uV/m)	Peak -V and H pol'

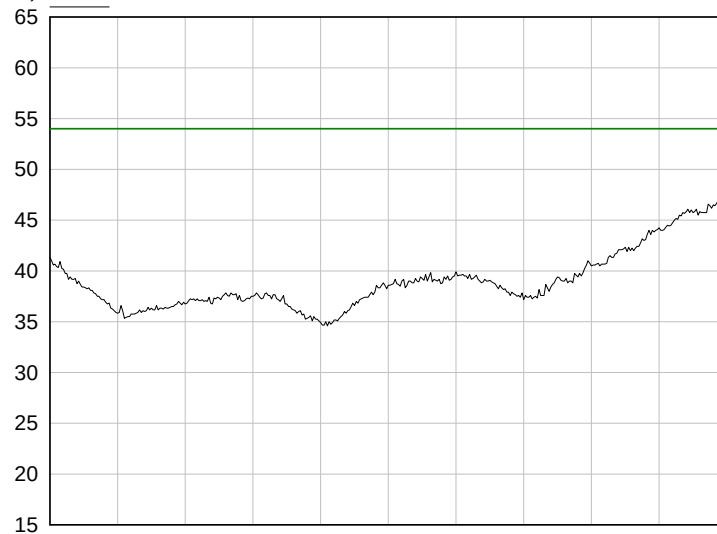
Plot Radiated Emission Out-of-Band/ 149



Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	40.0000 GHz	57.91 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 150

dB Radiated Emission Out Of Band
(uV/m) Trace A

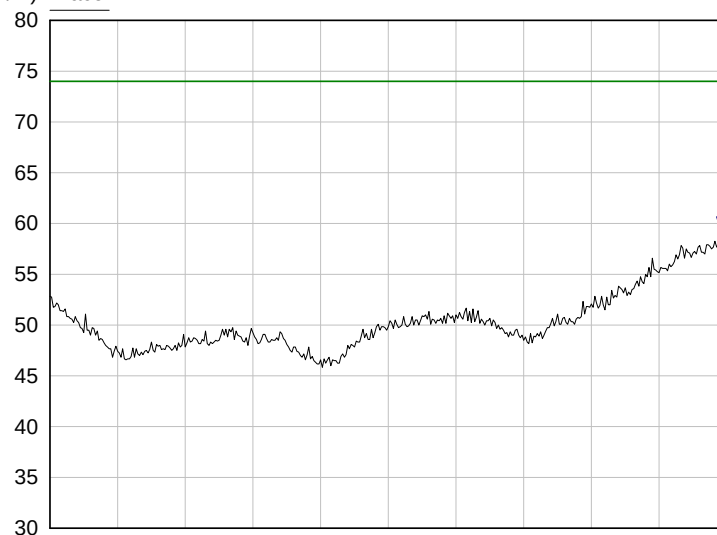


23dBi _Antenna_MID_5790MHz_ BW=5MHz_AVG
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 10 kHz Sweep: 5.00 s
2/2/2010 4:55:18 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.9325 GHz	47.09 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 151

dB Radiated Emission Out Of Band
(uV/m) Trace A

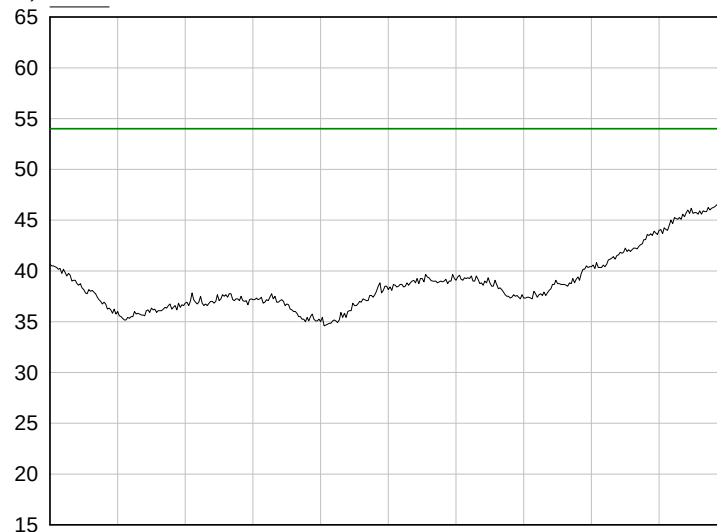


23dBi _Antenna_MID_5790MHz BW=5MHz_Peak
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 3 MHz Sweep: 5.00 s
2/2/2010 4:36:18 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8988 GHz	58.67 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 152

dB Radiated Emission Out Of Band
(uV/m) Trace A

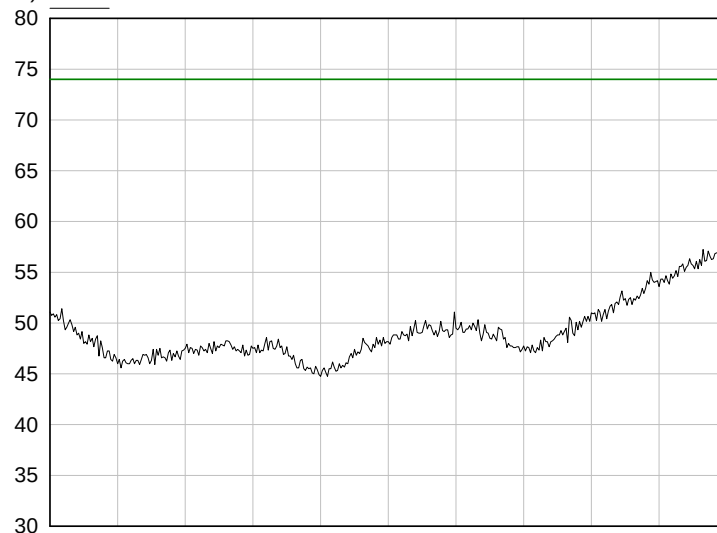


23dBi _Antenna_HIGH_5845MHz_BW=5MHz_AVG
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 10 kHz Sweep: 5.00 s
2/2/2010 4:56:52 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	47.05 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 153

dB Radiated Emission Out Of Band
(uV/m) Trace A

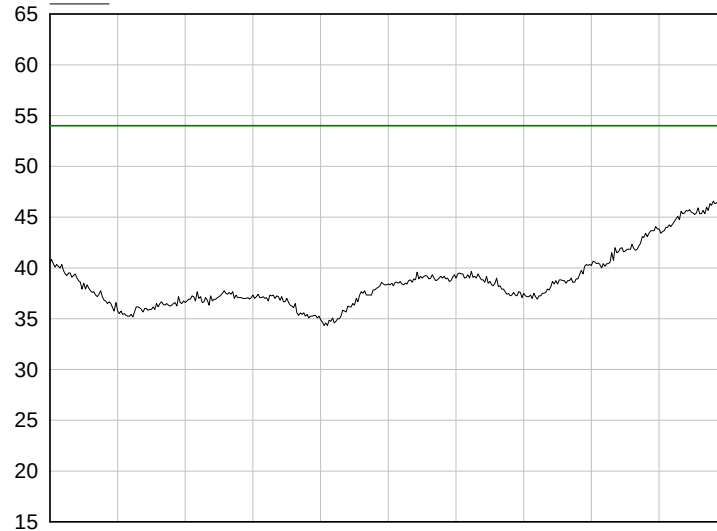


23dBi _Antenna_HIGH_5845MHz BW=5MHz_Peak
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 3 MHz Sweep: 5.00 s
2/2/2010 4:37:40 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	57.49 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 154

dB Radiated Emission Out Of Band
(uV/m) Trace A

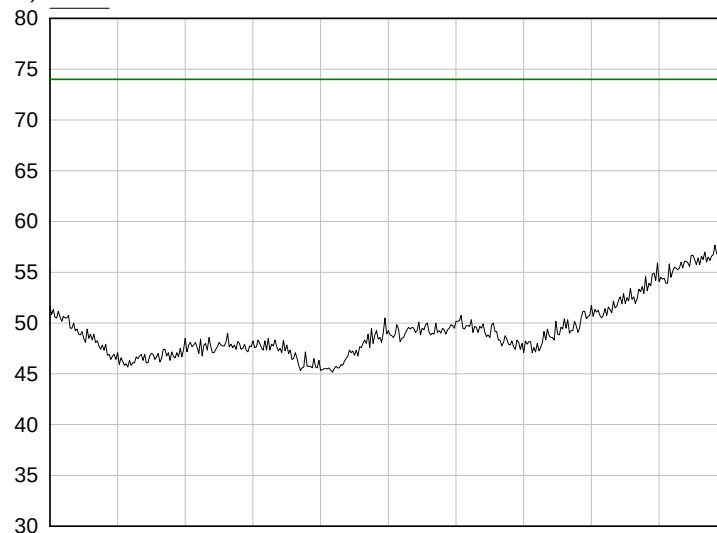


23dBi_Antenna_LOW_5735MHz_BW=10MHz_AVG
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 10 kHz Sweep: 5.00 s
2/2/2010 4:58:12 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	47.12 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 155

dB Radiated Emission Out Of Band
(uV/m) Trace A

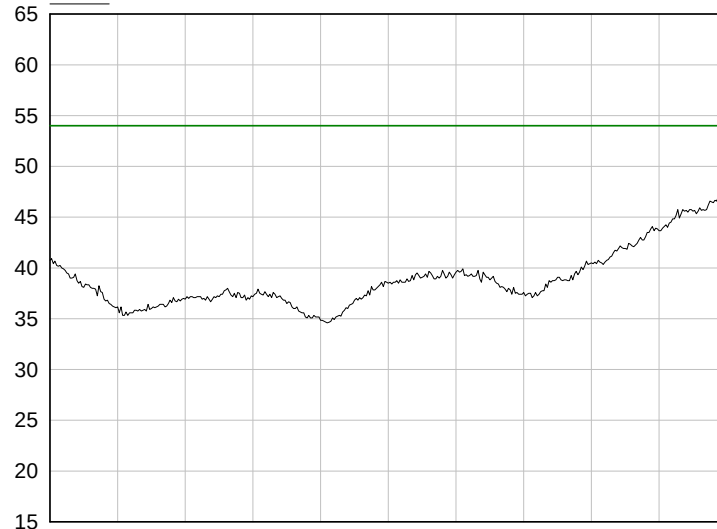


23dBi_Antenna_LOW_5735MHz_BW=10MHz_Peak
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 3 MHz Sweep: 5.00 s
2/2/2010 4:39:31 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	58.83 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 156

dB Radiated Emission Out Of Band
(uV/m) Trace A

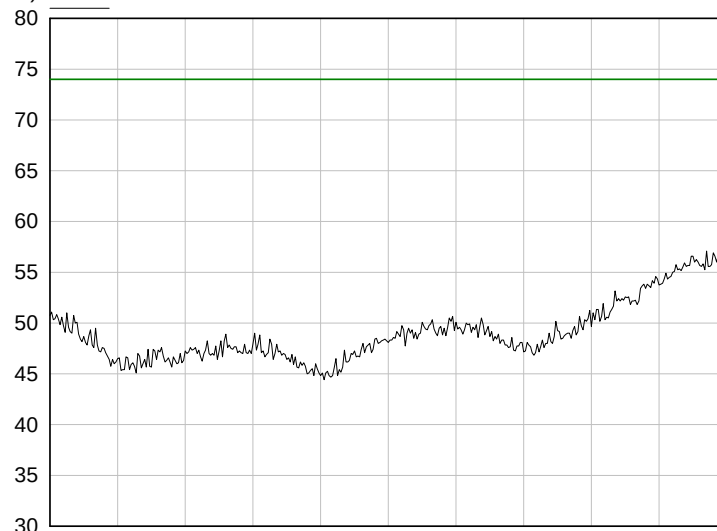


23dBi_Antenna_MID_5790MHz_BW=10MHz_AVG
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 10 kHz Sweep: 5.00 s
2/2/2010 4:59:44 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.9325 GHz	47.23 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 157

dB Radiated Emission Out Of Band
(uV/m) Trace A

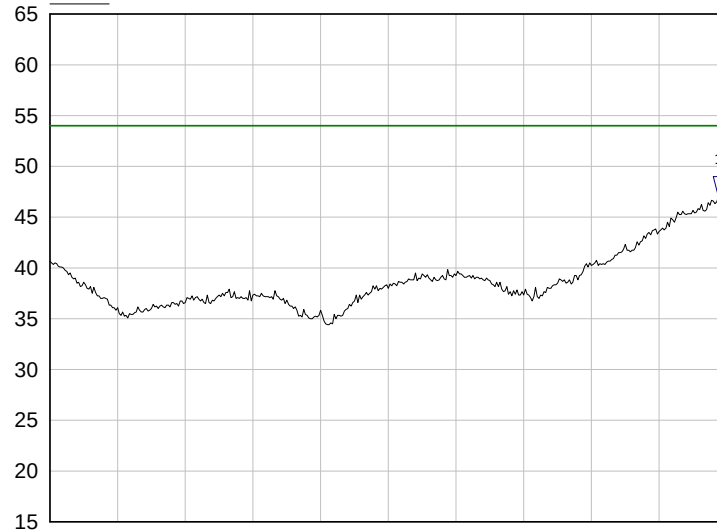


23dBi_Antenna_MID_5790MHz_BW=10MHz_Peak
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 3 MHz Sweep: 5.00 s
2/2/2010 4:41:21 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	57.08 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 158

dB Radiated Emission Out Of Band
(uV/m) Trace A

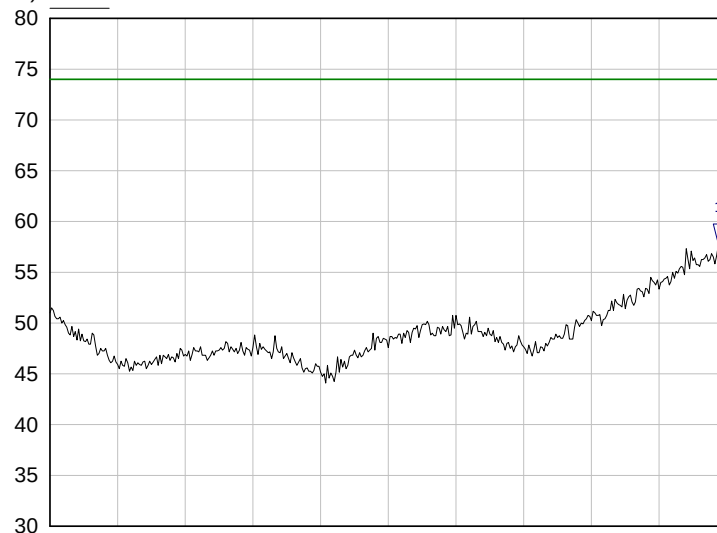


23dBi_Antenna_HIGH_5840MHz_ BW=10MHz_AVG
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 10 kHz Sweep: 5.00 s
2/2/2010 5:01:16 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8313 GHz	47.03 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 159

dB Radiated Emission Out Of Band
(uV/m) Trace A

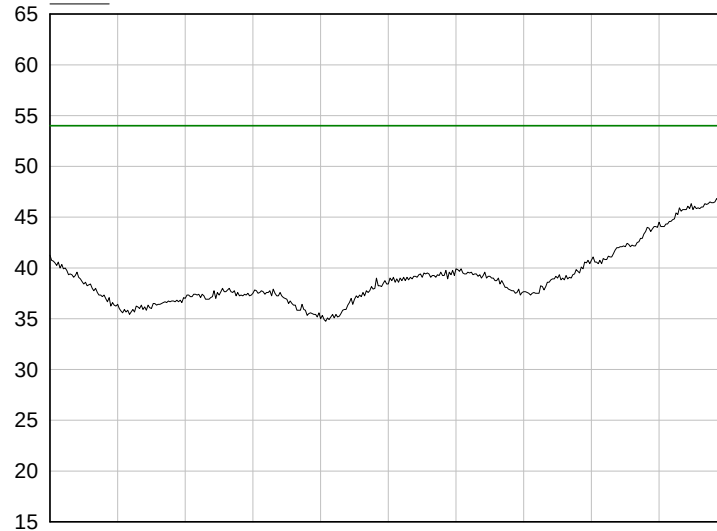


23dBi_Antenna_HIGH_5840MHz_ BW=10MHz_Peak
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 3 MHz Sweep: 5.00 s
2/2/2010 4:42:07 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8313 GHz	57.76 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 160

dB Radiated Emission Out Of Band
(uV/m) Trace A

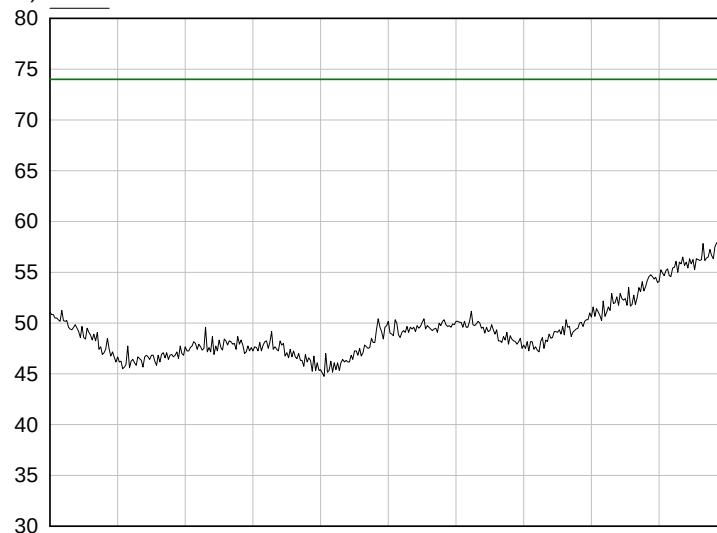


23dBi_Antenna_LOW_5735MHz_BW=20MHz_AVG
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 10 kHz Sweep: 5.00 s
2/2/2010 5:03:21 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	47.11 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 161

dB Radiated Emission Out Of Band
(uV/m) Trace A

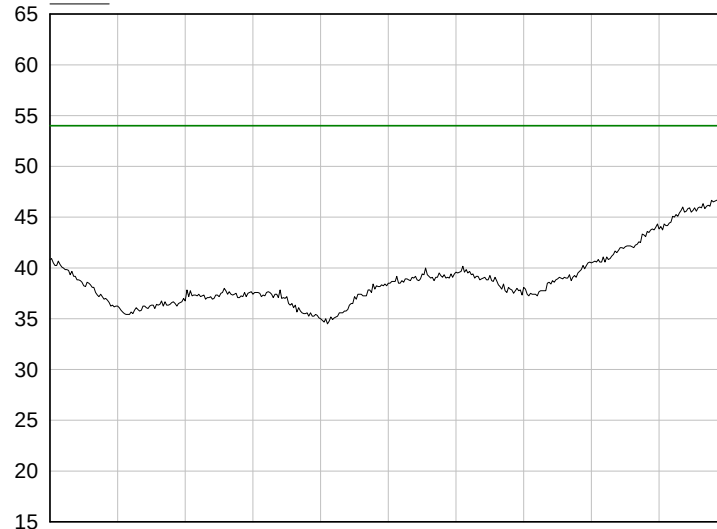


23dBi_Antenna_LOW_5735MHz_BW=20MHz_Peak
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 3 MHz Sweep: 5.00 s
2/2/2010 4:43:51 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	58.00 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 162

dB Radiated Emission Out Of Band
(uV/m) Trace A

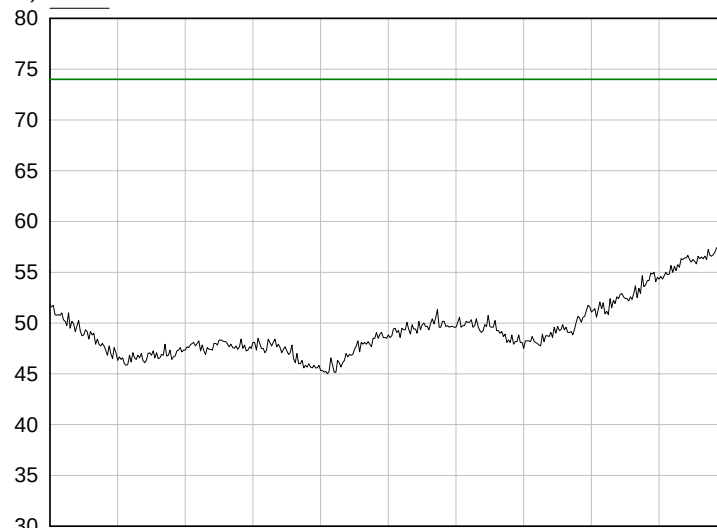


23dBi_Antenna_MID_5790MHz_BW=20MHz_AVG
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 10 kHz Sweep: 5.00 s
2/2/2010 5:04:35 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.9663 GHz	47.40 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 163

dB Radiated Emission Out Of Band
(uV/m) Trace A

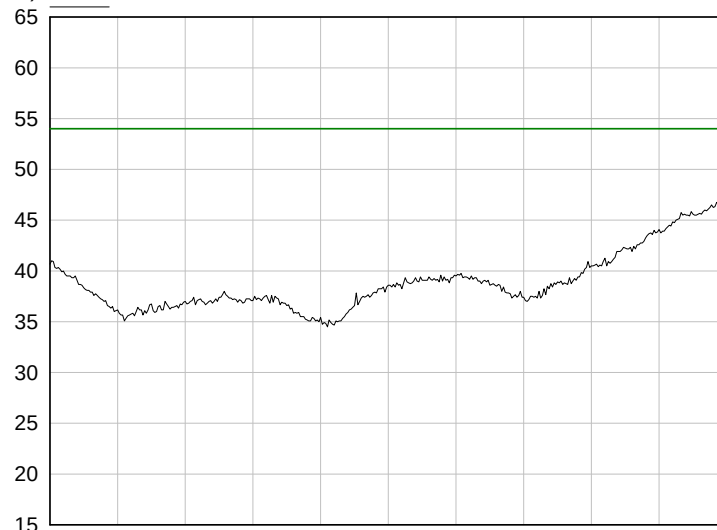


23dBi_Antenna_MID_5790MHz_BW=20MHz_Peak
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 3 MHz Sweep: 5.00 s
2/2/2010 4:44:57 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	57.88 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 164

dB Radiated Emission Out Of Band
(uV/m) Trace A

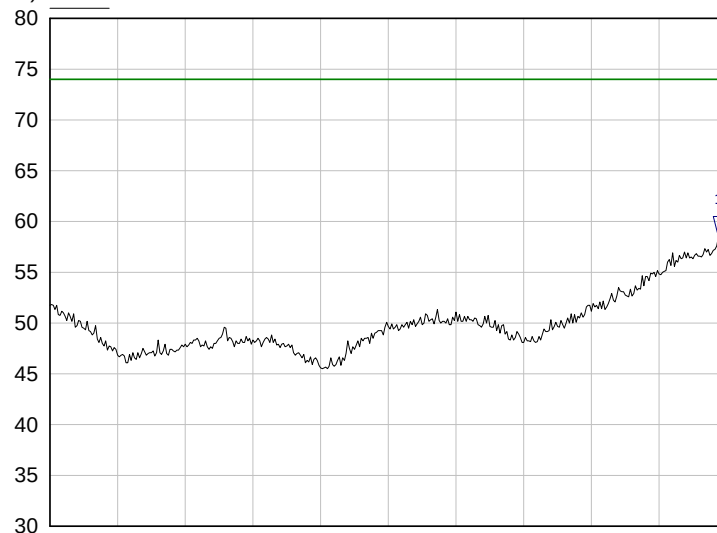


23dBi_Antenna_HIGH_5840MHz_ BW=20MHz_AVG
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 10 kHz Sweep: 5.00 s
2/2/2010 5:06:10 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	47.12 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 165

dB Radiated Emission Out Of Band
(uV/m) Trace A

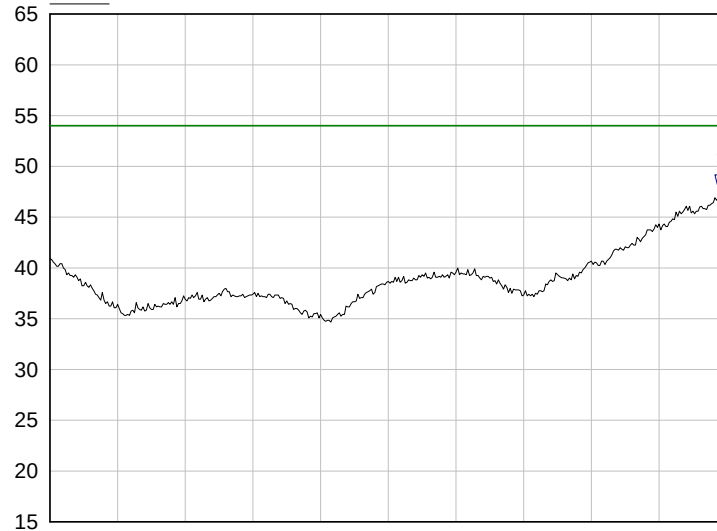


23dBi_Antenna_HIGH_5840MHz_ BW=20MHz_Peak
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 3 MHz Sweep: 5.00 s
2/2/2010 4:45:46 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8313 GHz	58.49 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 166

dB Radiated Emission Out Of Band
(uV/m) Trace A

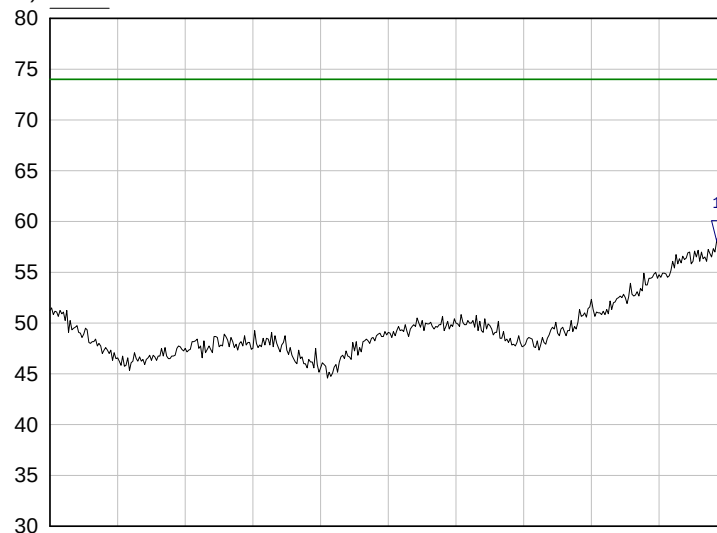


23dBi_Antenna_LOW_5745MHz_BW=40MHz_AVG
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 10 kHz Sweep: 5.00 s
2/2/2010 5:07:32 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8650 GHz	47.18 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 167

dB Radiated Emission Out Of Band
(uV/m) Trace A

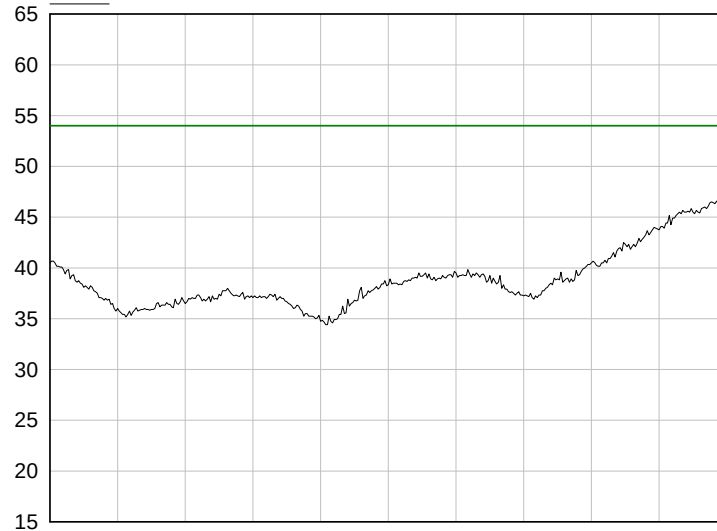


23dBi_Antenna_LOW_5745MHz_BW=40MHz_Peak
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 3 MHz Sweep: 5.00 s
2/2/2010 4:47:45 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.7975 GHz	58.09 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 168

dB Radiated Emission Out Of Band
(uV/m) Trace A

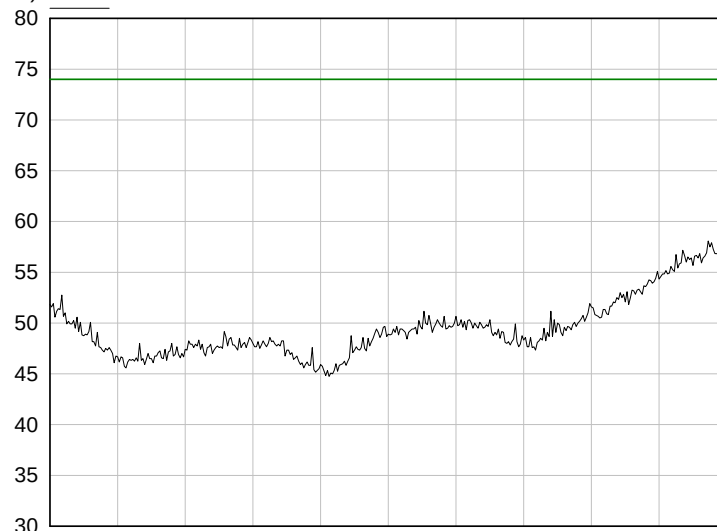


23dBi_Antenna_MID_5790MHz_BW=40MHz_AVG
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 10 kHz Sweep: 5.00 s
2/2/2010 5:08:30 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.9663 GHz	46.96 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 169

dB Radiated Emission Out Of Band
(uV/m) Trace A

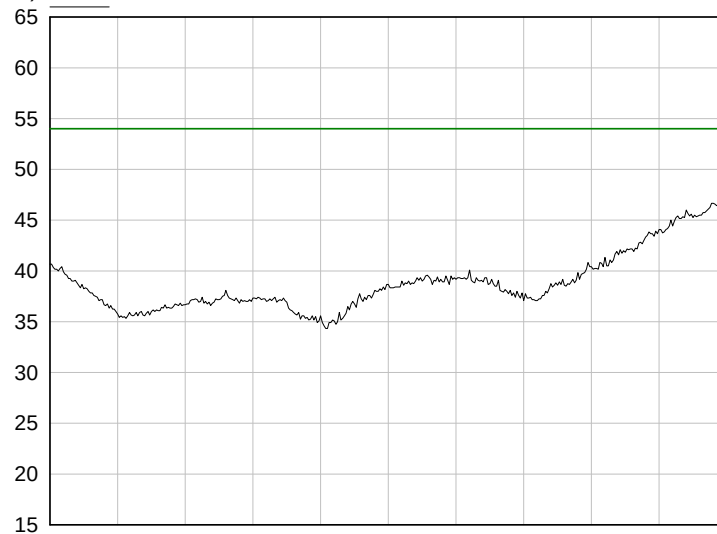


23dBi_Antenna_MID_5790MHz_BW=40MHz_Peak
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 3 MHz Sweep: 5.00 s
2/2/2010 4:48:56 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	58.98 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 170

dB Radiated Emission Out Of Band
(uV/m) Trace A

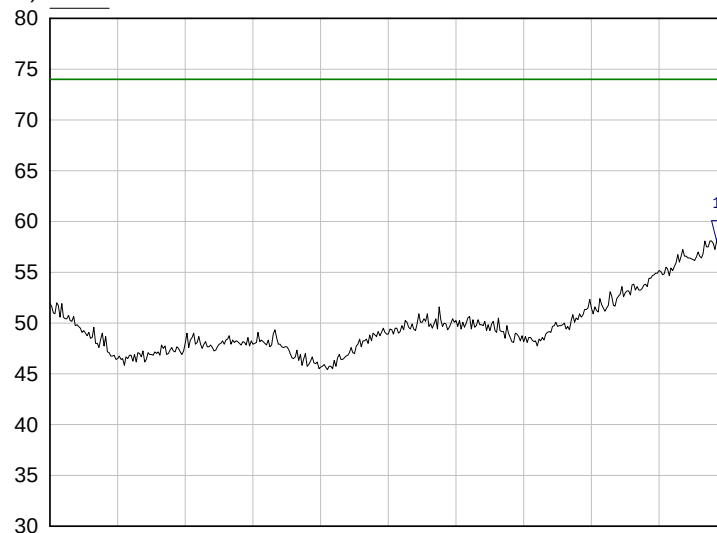


23dBi_Antenna_HIGH_5830MHz_BW=40MHz_AVG
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 10 kHz Sweep: 5.00 s
2/2/2010 5:09:42 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.9325 GHz	46.70 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission Out-of-Band/ 171

dB Radiated Emission Out Of Band
(uV/m) Trace A

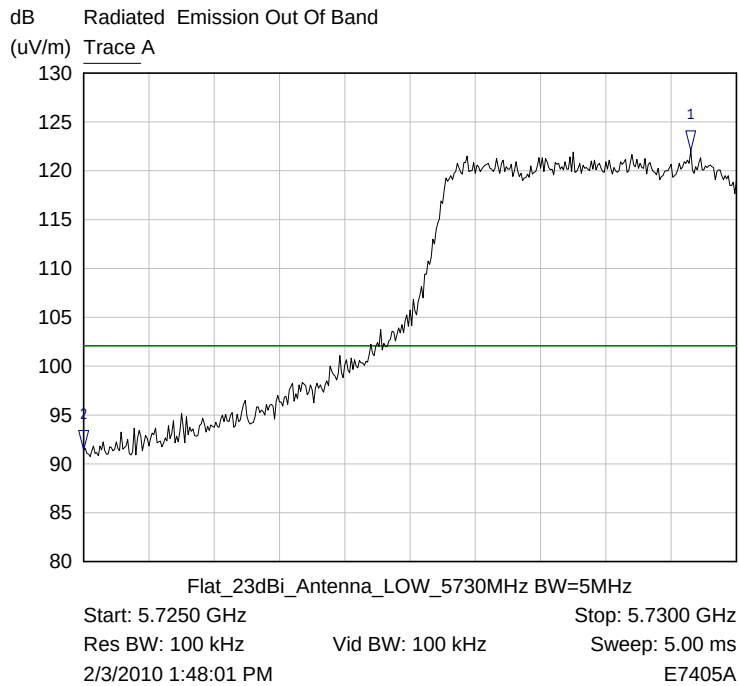


23dBi_Antenna_HIGH_5830MHz_BW=40MHz_Peak
Start: 26.5000 GHz Stop: 40.0000 GHz
Res BW: 1 MHz Vid BW: 3 MHz Sweep: 5.00 s
2/2/2010 4:50:31 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.7975 GHz	58.12 dB(uV/m)	Peak -V and H pol'

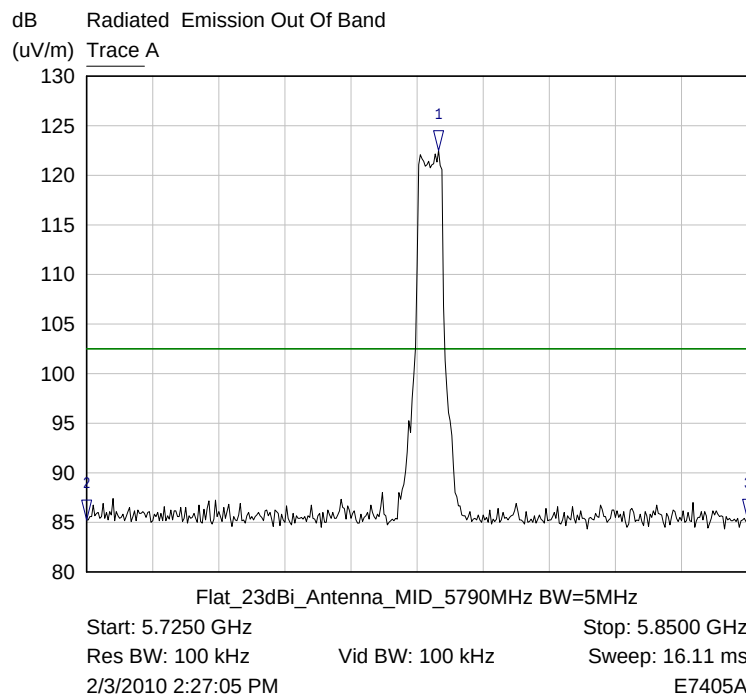
Plot Radiated Emission Out-of-Band/ 172

5.9.9.2. In-Band



Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.7297 GHz	122.12 dB(uV/m)	-20dBc=102.12dBuV
2 ▽	Trace A	5.7250 GHz	91.39 dB(uV/m)	

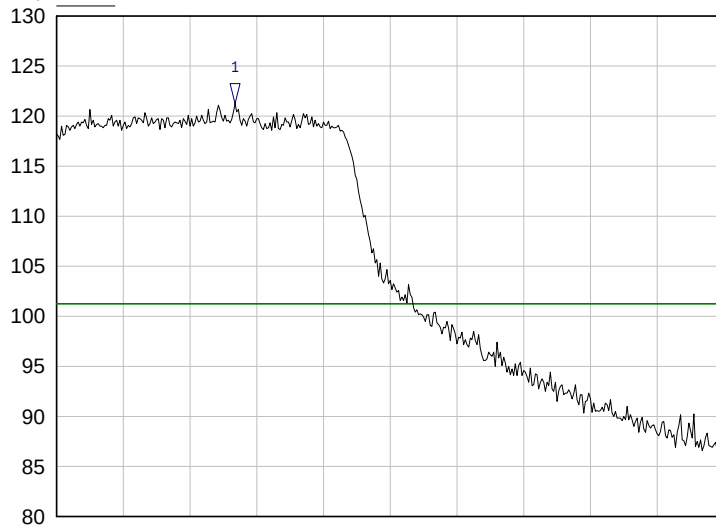
Plot Radiated Emission In-Band/ 173



Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.7916 GHz	122.52 dB(uV/m)	-20dBc=102.52dBuV
2 ▽	Trace A	5.7250 GHz	85.25 dB(uV/m)	
3 ▽	Trace A	5.8500 GHz	85.34 dB(uV/m)	

Plot Radiated Emission In-Band/ 174

dB Radiated Emission Out Of Band
(uV/m) Trace A



Flat_23dBi_Antenna_HIGH_5845MHz BW=5MHz

Start: 5.8450 GHz

Stop: 5.8500 GHz

Res BW: 100 kHz

Vid BW: 100 kHz

Sweep: 5.00 ms

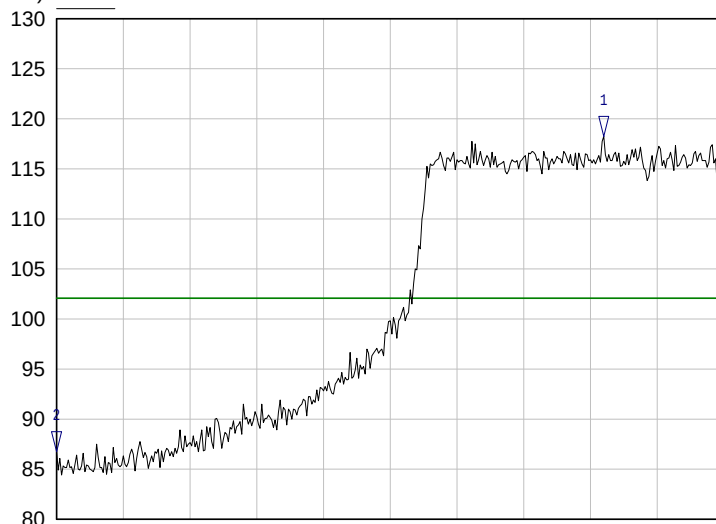
2/3/2010 2:30:07 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.8463 GHz	121.24 dB(uV/m)	-20dBc=101.24dBuV
2 ▾	Trace A	5.8500 GHz	86.89 dB(uV/m)	

Plot Radiated Emission In-Band/ 175

dB Radiated Emission Out Of Band
(uV/m) Trace A



Flat_23dBi_Antenna_LOW_5735MHz BW=10MHz

Start: 5.7250 GHz

Stop: 5.7350 GHz

Res BW: 100 kHz

Vid BW: 100 kHz

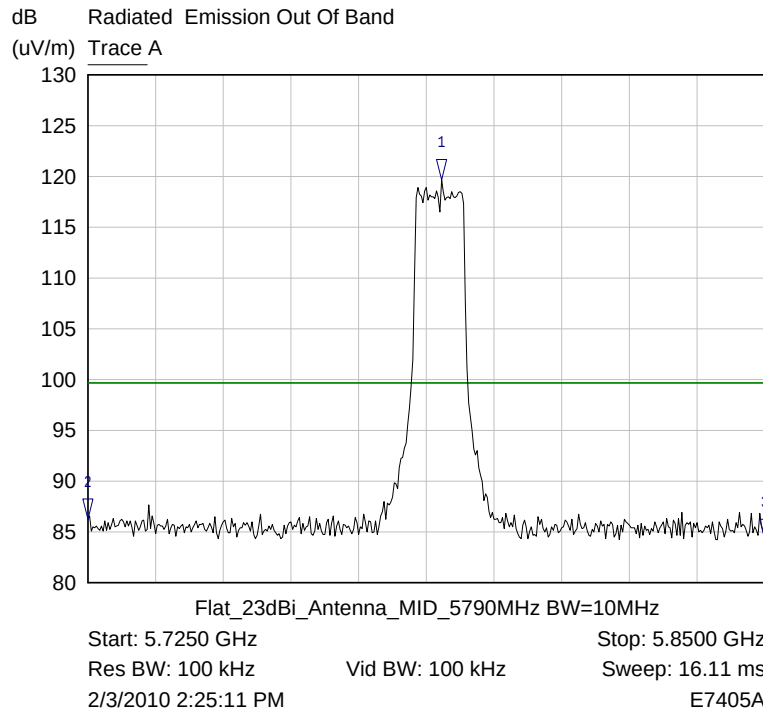
Sweep: 4.00 ms

2/3/2010 2:00:08 PM

E7405A

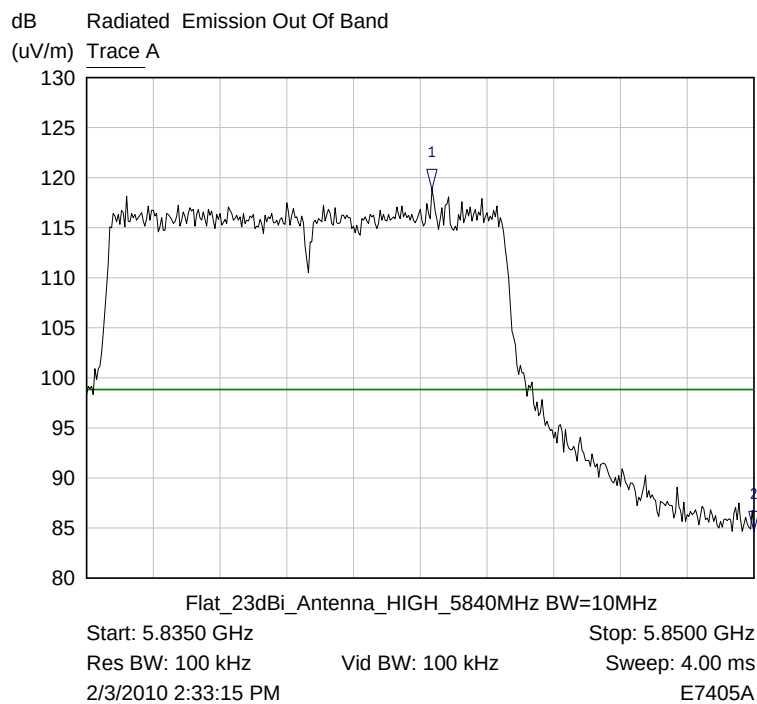
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.7332 GHz	118.22 dB(uV/m)	-20dBc=102.12dBuV
2 ▾	Trace A	5.7250 GHz	86.76 dB(uV/m)	

Plot Radiated Emission In-Band/ 176



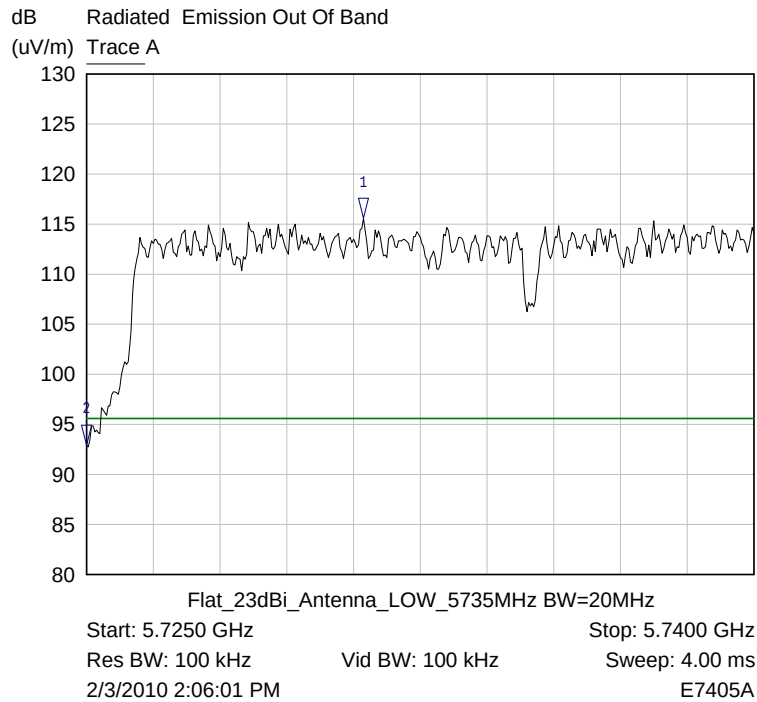
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.7903 GHz	119.70 dB(uV/m)	-20dBc=99.7dBuV
2 ▽	Trace A	5.7250 GHz	86.28 dB(uV/m)	
3 ▽	Trace A	5.8500 GHz	84.29 dB(uV/m)	

Plot Radiated Emission In-Band/ 177



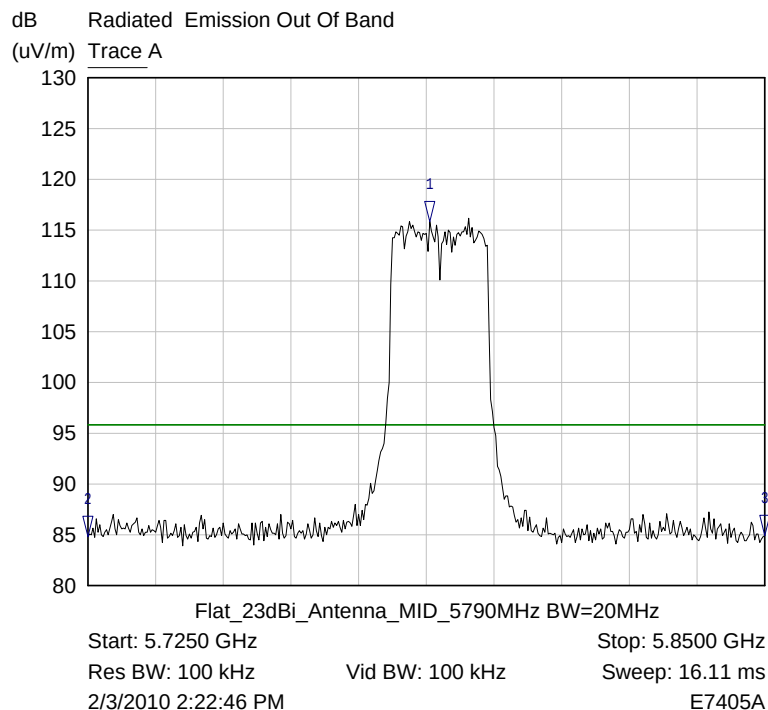
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.8428 GHz	118.80 dB(uV/m)	-20dBc=98.8dBuV
2 ▽	Trace A	5.8500 GHz	84.67 dB(uV/m)	

Plot Radiated Emission In-Band/ 178



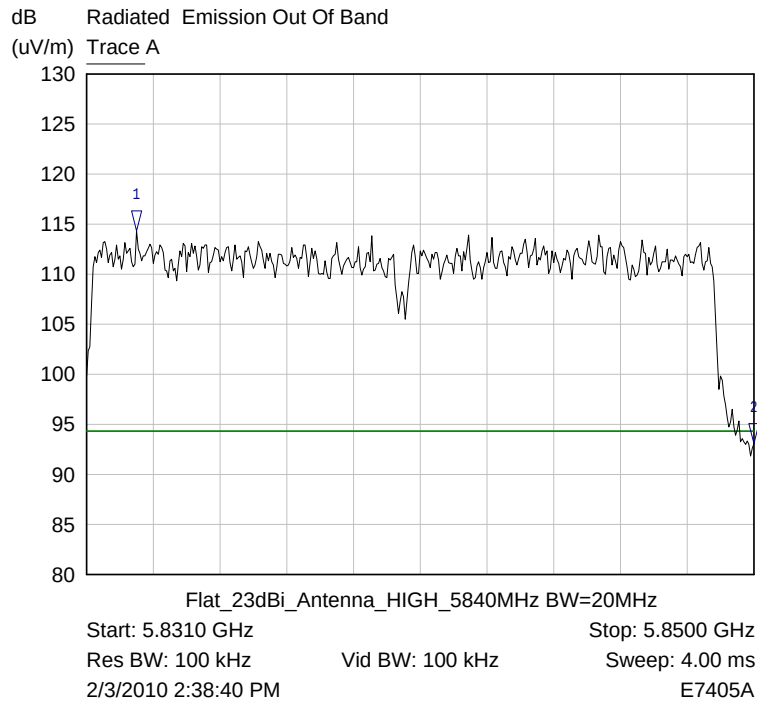
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.7312 GHz	115.56 dB(uV/m)	-20dBc=95.56dBuV
2 ▾	Trace A	5.7250 GHz	92.88 dB(uV/m)	

Plot Radiated Emission In-Band/ 179



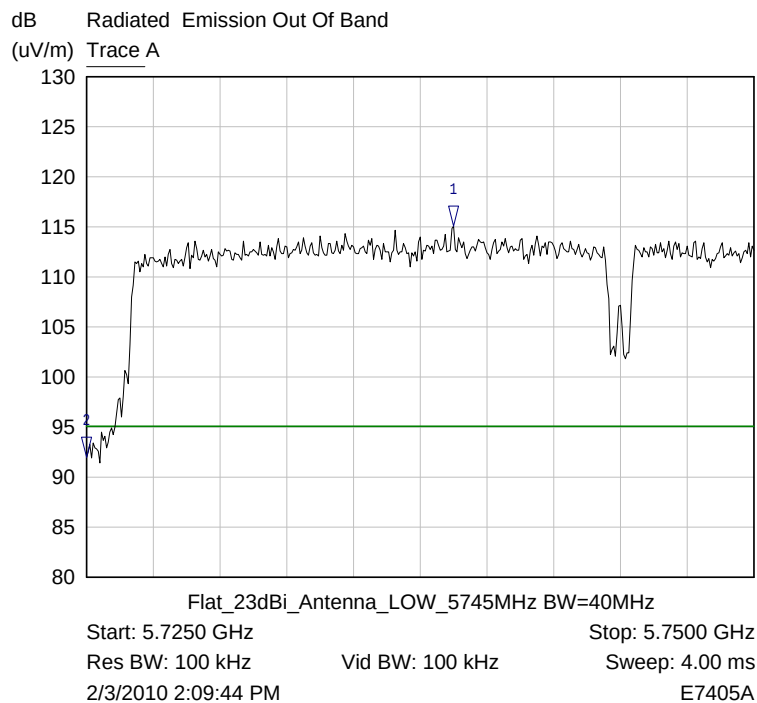
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.7881 GHz	115.87 dB(uV/m)	-20dBc=95.87dBuV
2 ▾	Trace A	5.7250 GHz	84.80 dB(uV/m)	
3 ▾	Trace A	5.8500 GHz	84.94 dB(uV/m)	

Plot Radiated Emission In-Band/ 180



Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.8324 GHz	114.34 dB(uV/m)	-20dBc=94.34dBuV
2 ▽	Trace A	5.8500 GHz	93.05 dB(uV/m)	

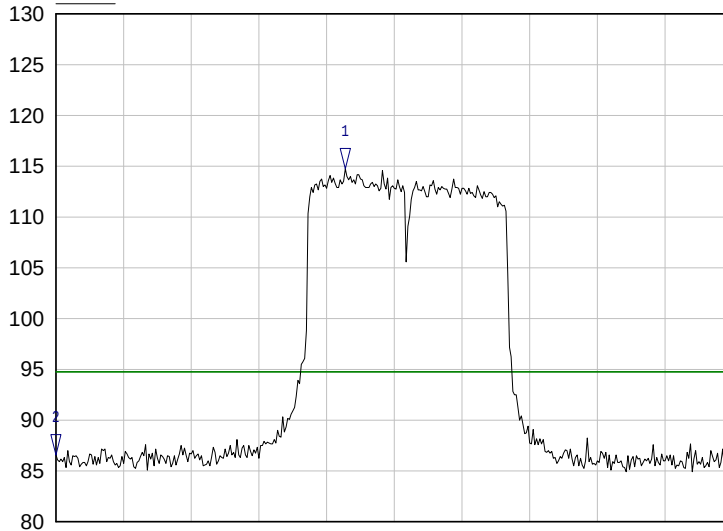
Plot Radiated Emission In-Band/ 181



Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.7387 GHz	115.06 dB(uV/m)	-20dBc=95.06dBuV
2 ▽	Trace A	5.7250 GHz	91.97 dB(uV/m)	

Plot Radiated Emission In-Band/ 182

dB Radiated Emission Out Of Band
(uV/m) Trace A

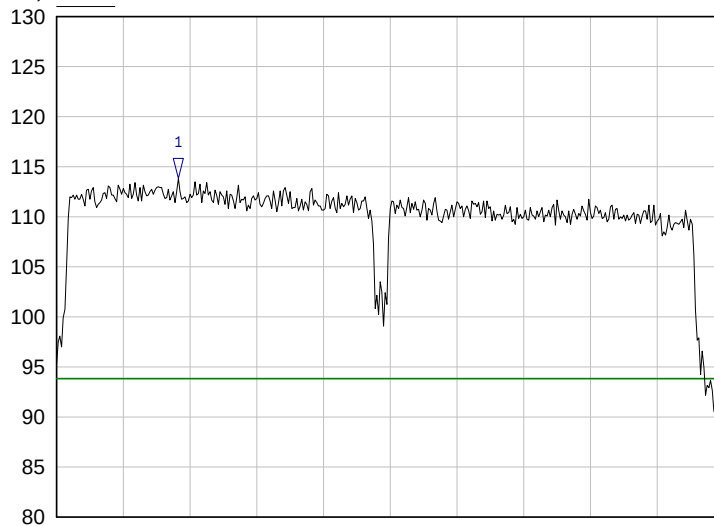


Start: 5.7250 GHz Stop: 5.8500 GHz
Res BW: 100 kHz Vid BW: 100 kHz Sweep: 16.11 ms
2/3/2010 2:17:32 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.7784 GHz	114.73 dB(uV/m)	-20dBc=94.73dBuV
2 ▽	Trace A	5.7250 GHz	86.60 dB(uV/m)	
3 ▽	Trace A	5.8500 GHz	85.04 dB(uV/m)	

Plot Radiated Emission In-Band/ 183

dB Radiated Emission Out Of Band
(uV/m) Trace A



Start: 5.8110 GHz Stop: 5.8500 GHz
Res BW: 100 kHz Vid BW: 100 kHz Sweep: 5.02 ms
2/3/2010 2:42:14 PM E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.8181 GHz	113.83 dB(uV/m)	-20dBc=93.83dBuV
2 ▽	Trace A	5.8500 GHz	89.70 dB(uV/m)	

Plot Radiated Emission In-Band/ 184

5.10. Dish_Antenna – Test Data

5.10.1. 9-150 kHz-dish

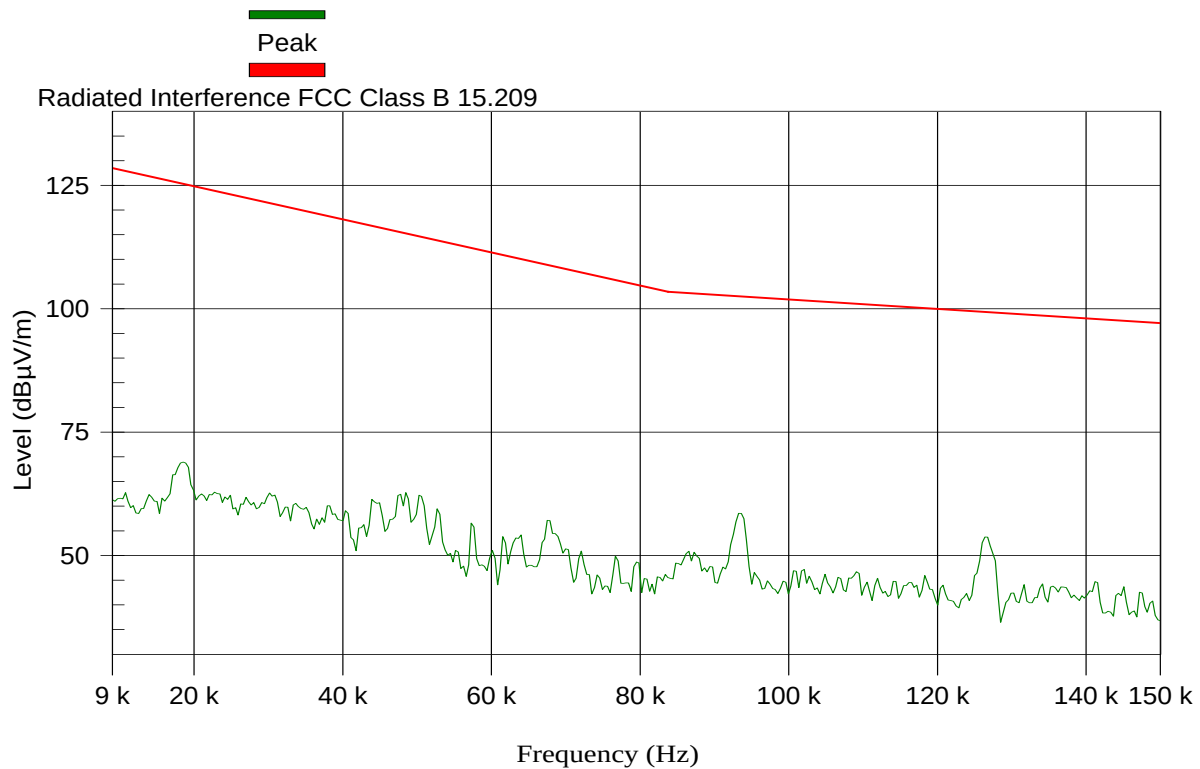
Test Results Plot No 185

9 kHz-150 KHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:55:17

Dish; Horizontal; LOW_5.730 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

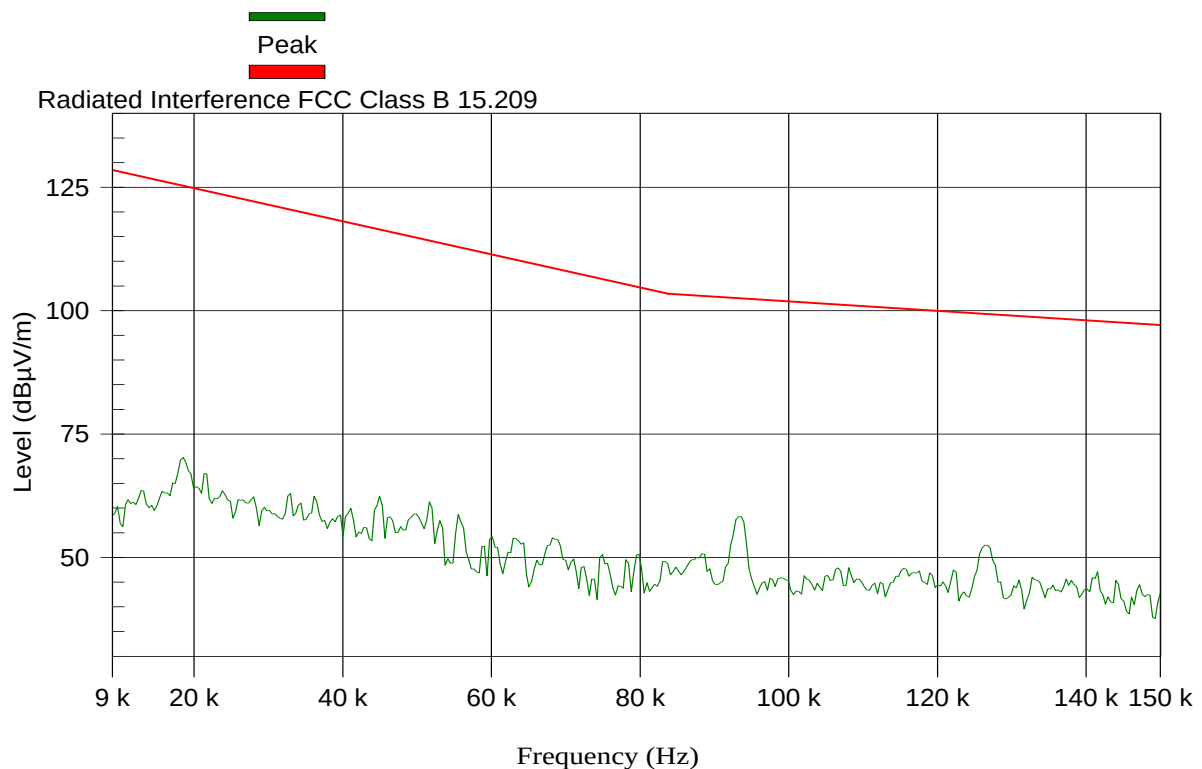
Test Results Plot No 186

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:54:30

Dish; Horizontal; MID_5.790 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

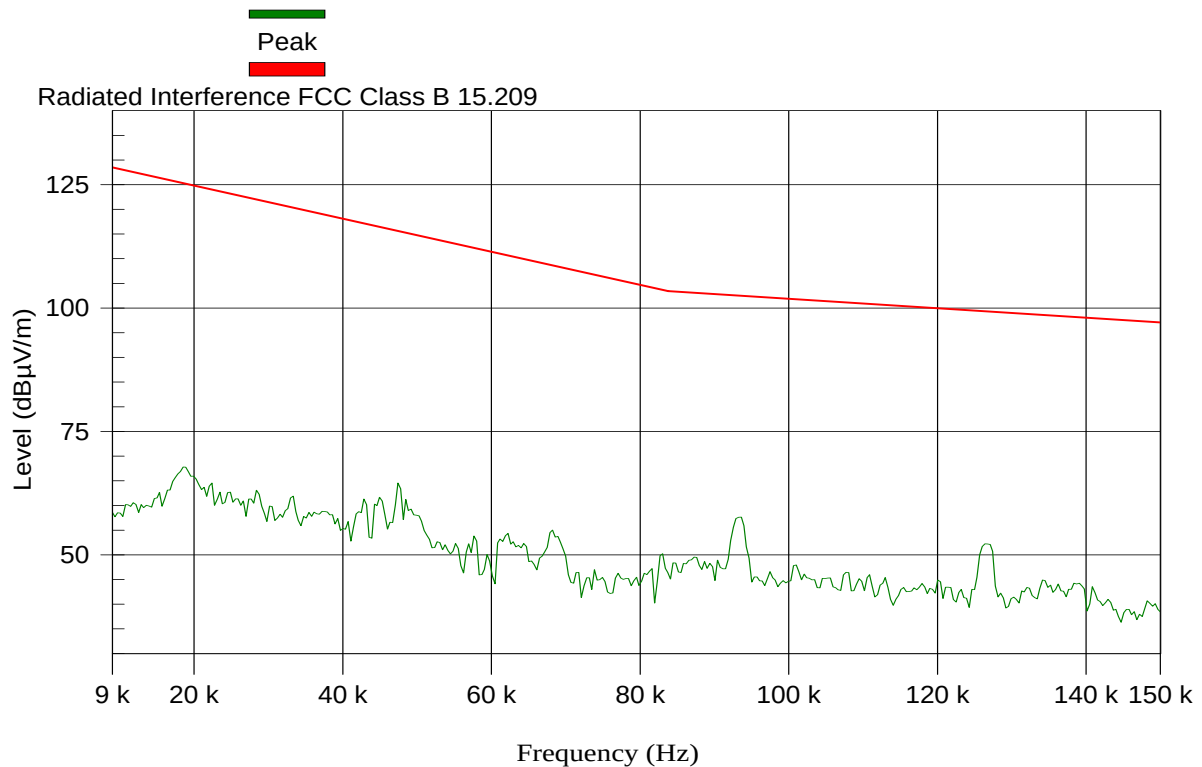
Test Results Plot No 187

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:53:48

Dish; Horizontal; HIGH_5.845 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

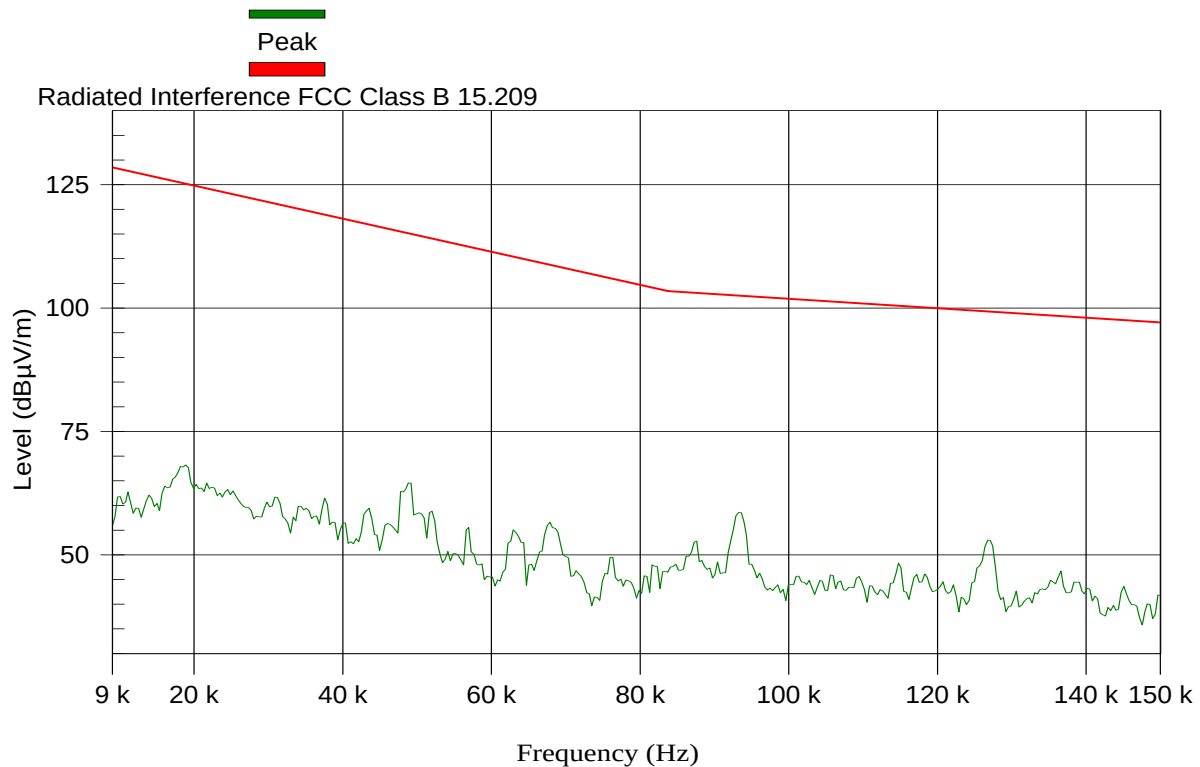
Test Results Plot No 188

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:51:12

Dish; Horizontal; LOW_5.735 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

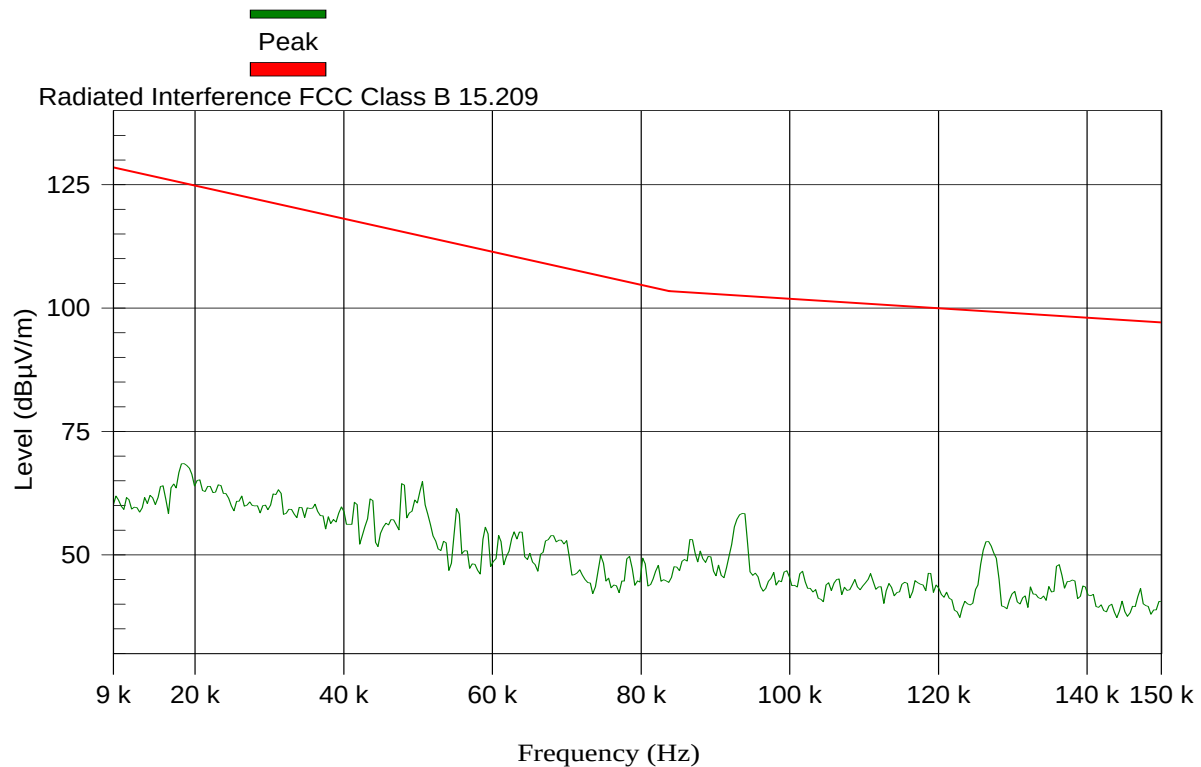
Test Results Plot No 189

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:51:51

Dish; Horizontal; MID_5.790 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

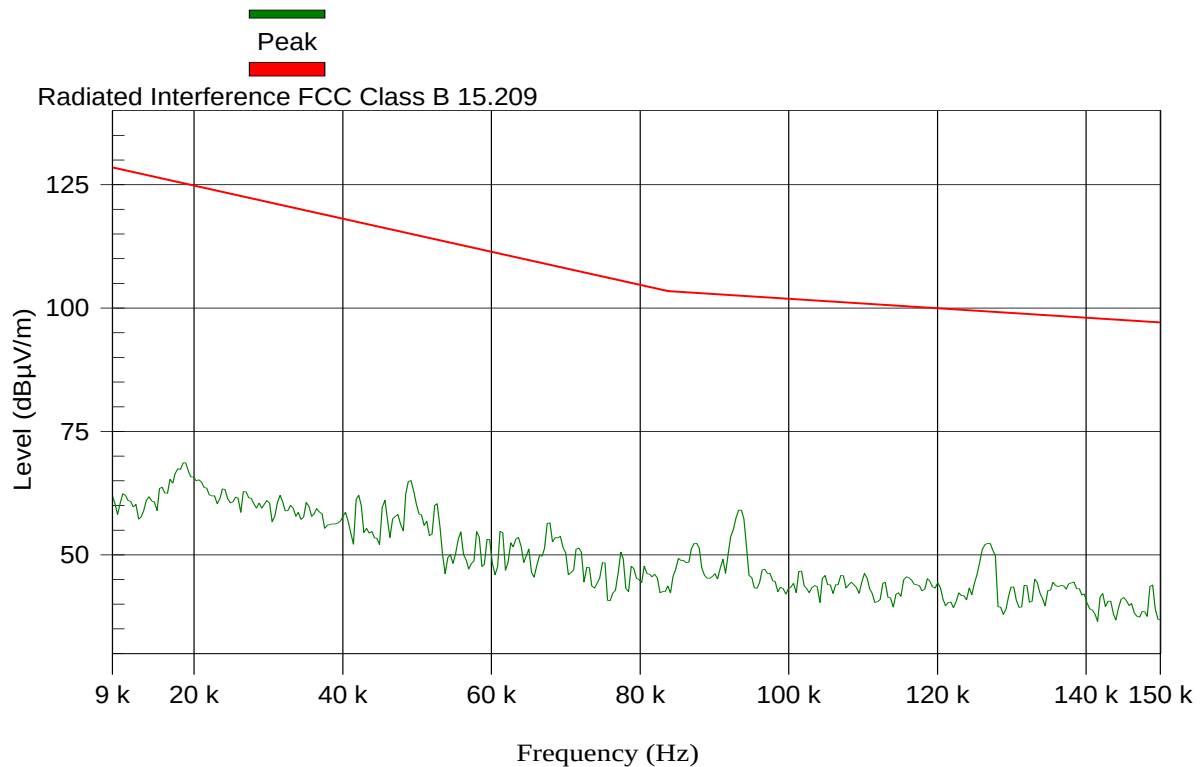
Test Results Plot No 190

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS:02 March 2010 14:52:40

Dish; Horizontal; HIGH_5.840 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

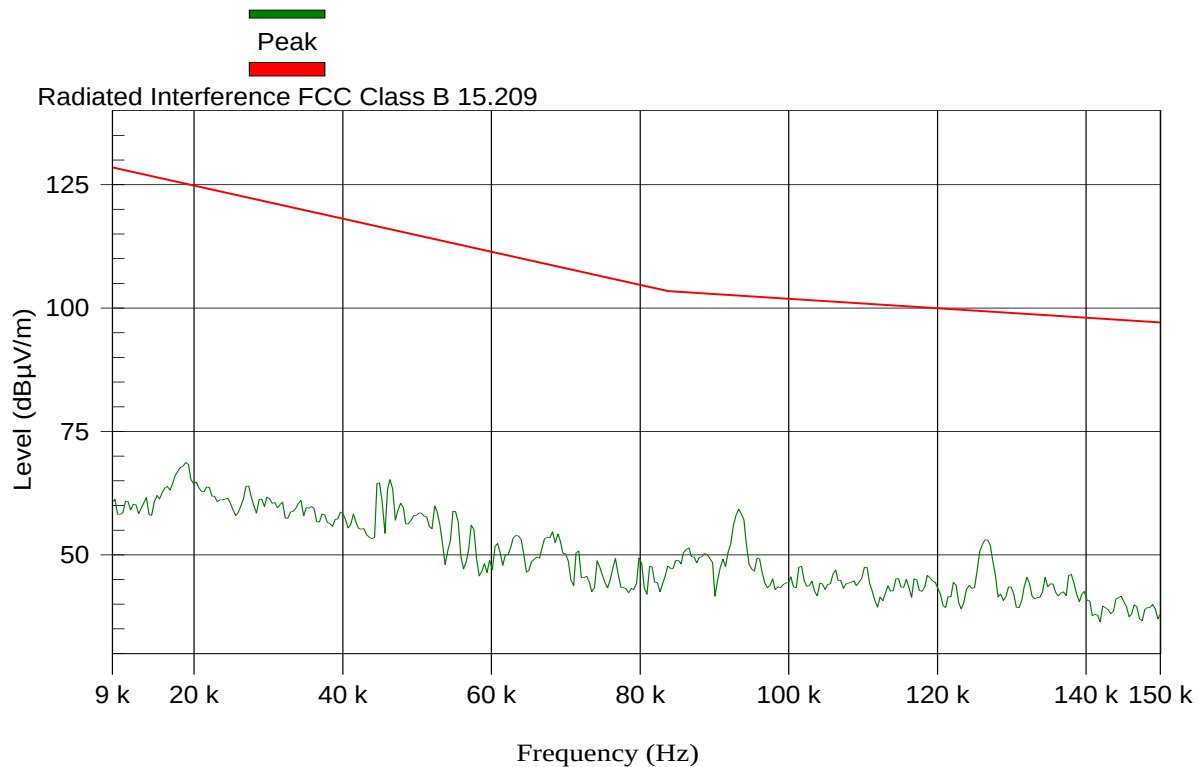
Test Results Plot No 191

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:48:22

Dish; Horizontal; LOW_5.735 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

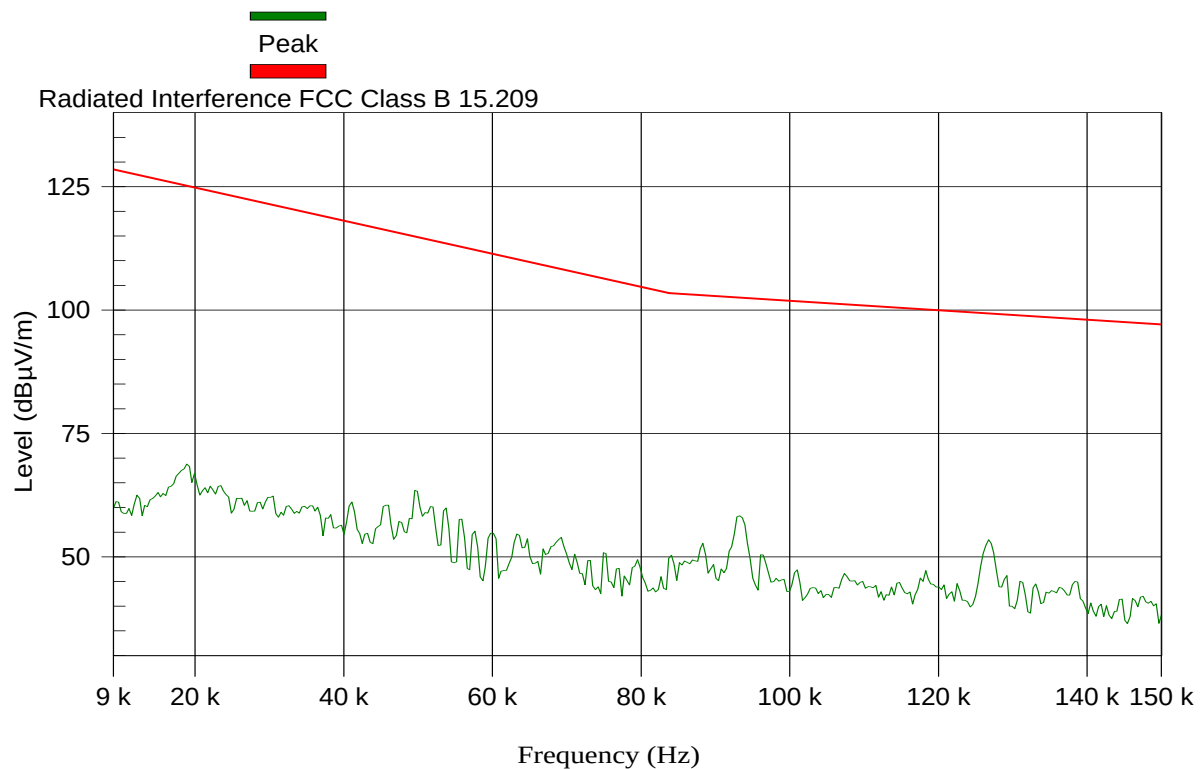
Test Results Plot No 192

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:49:40

Dish; Horizontal; MID_5.790 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

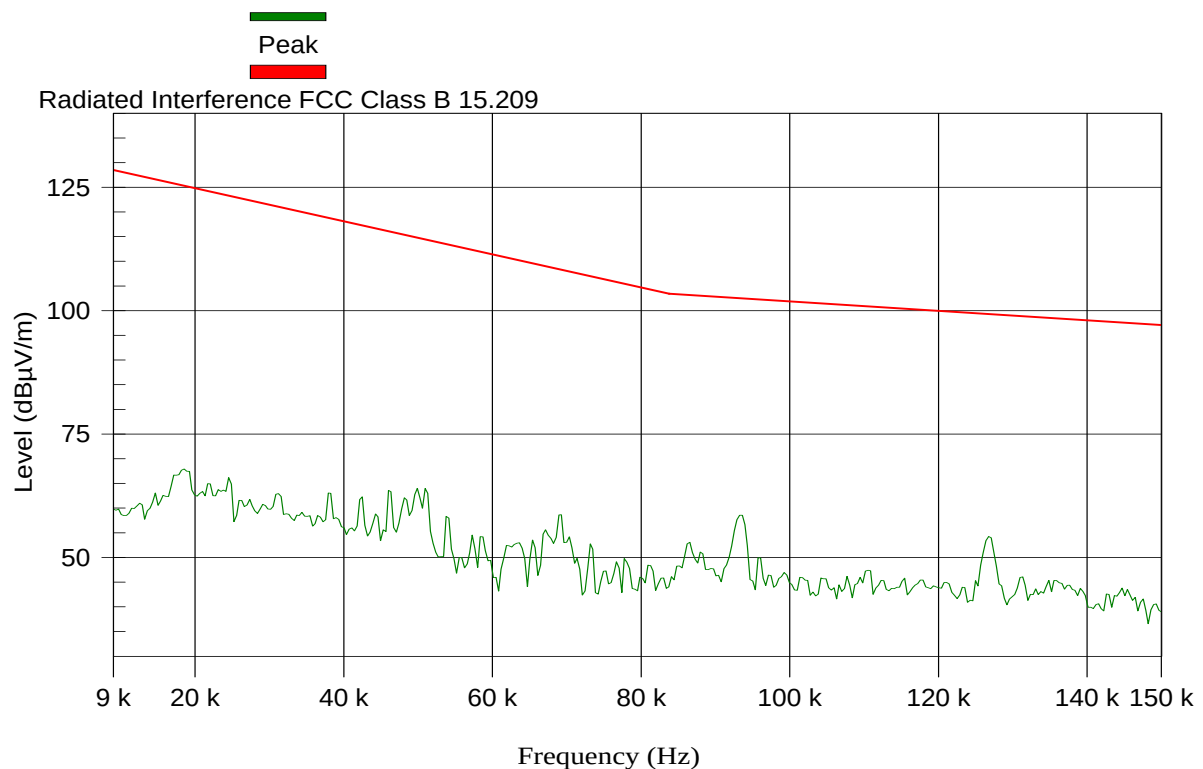
Test Results Plot No 193

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:50:26

Dish; Horizontal; HIGH_5.840 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

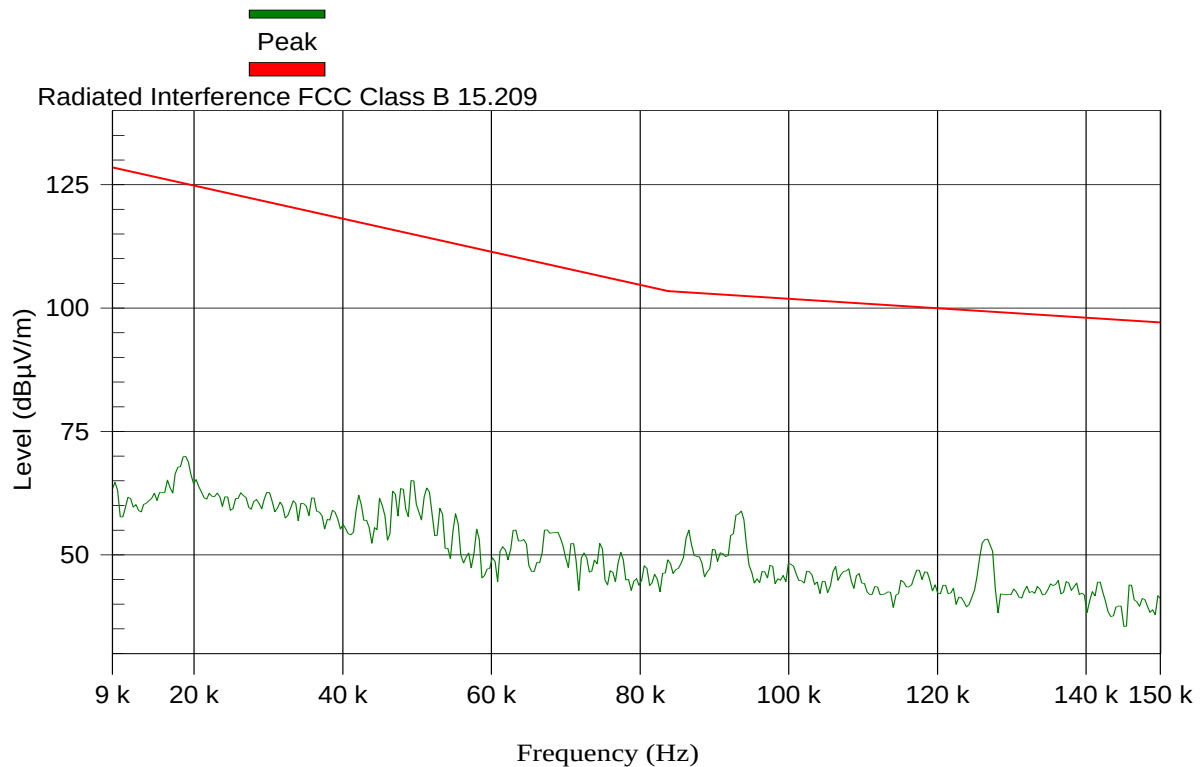
Test Results Plot No 194

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:45:23

Dish; Horizontal; LOW_5.745 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

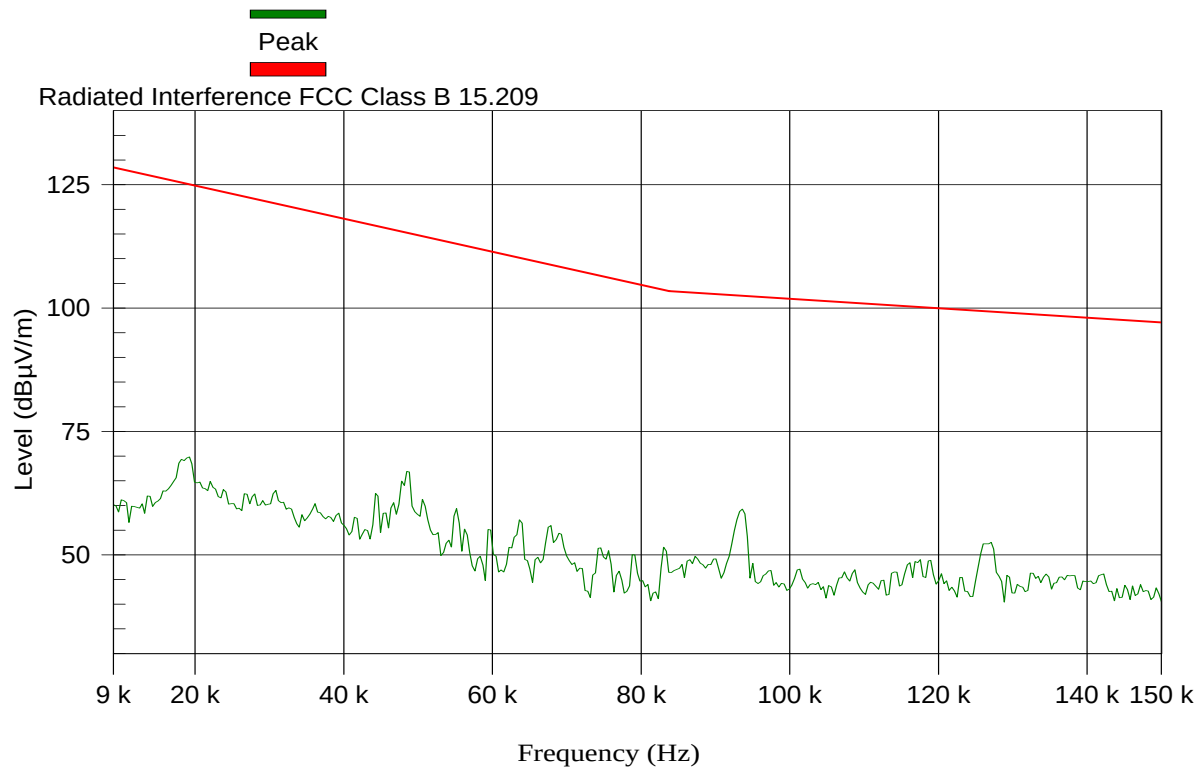
Test Results Plot No 195

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:46:30

Dish; Horizontal; MID_5.790 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

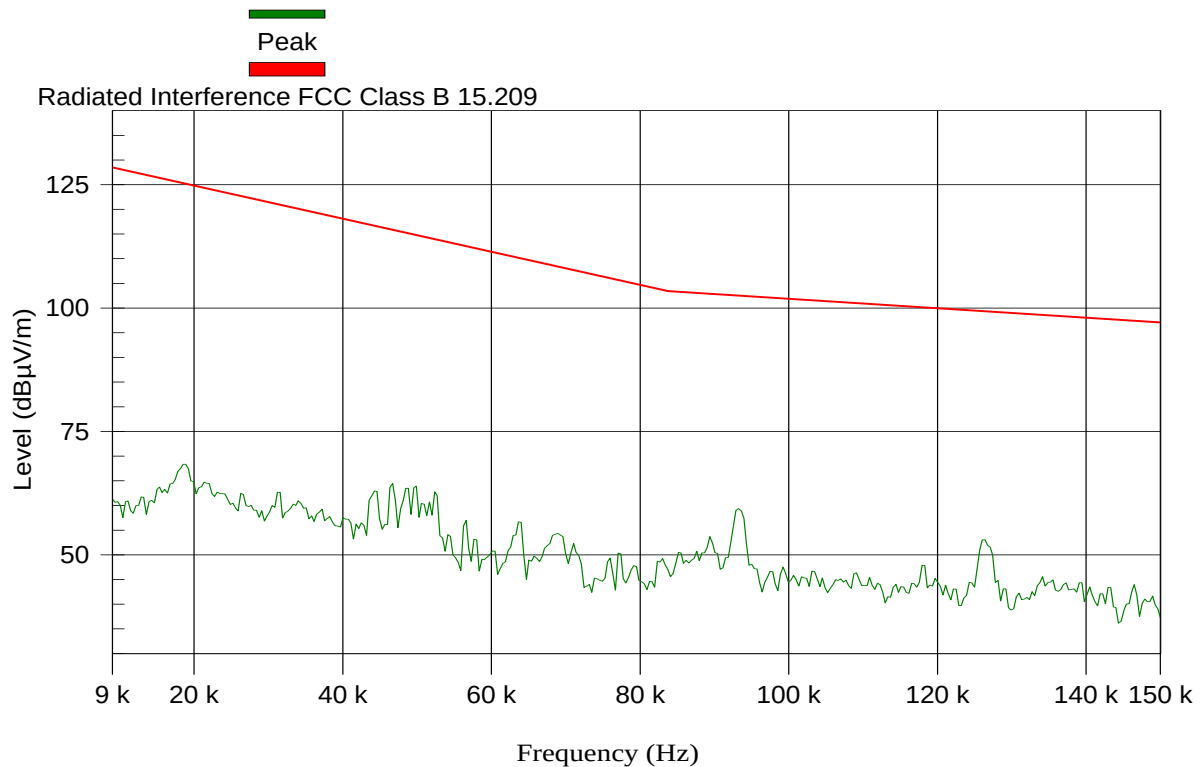
Test Results Plot No 196

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	1000 Hz
Test Engineer:	Ilya Arbitman	VBW:	3 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 146.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 14:47:18

Dish; Horizontal; HIGH_5.830 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

5.10.2. 150 kHz-30 MHz-Dish

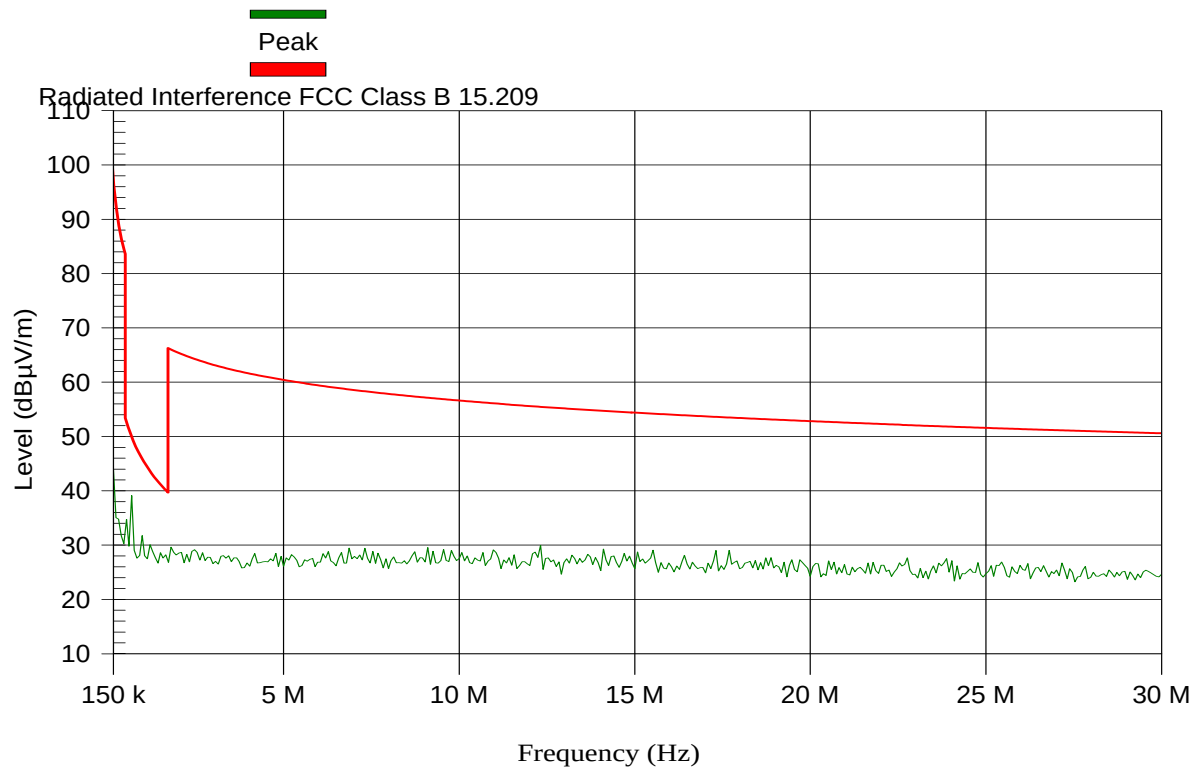
Test Results Plot No 197

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dBμV
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Dish; Low 5.730 GHz 5 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

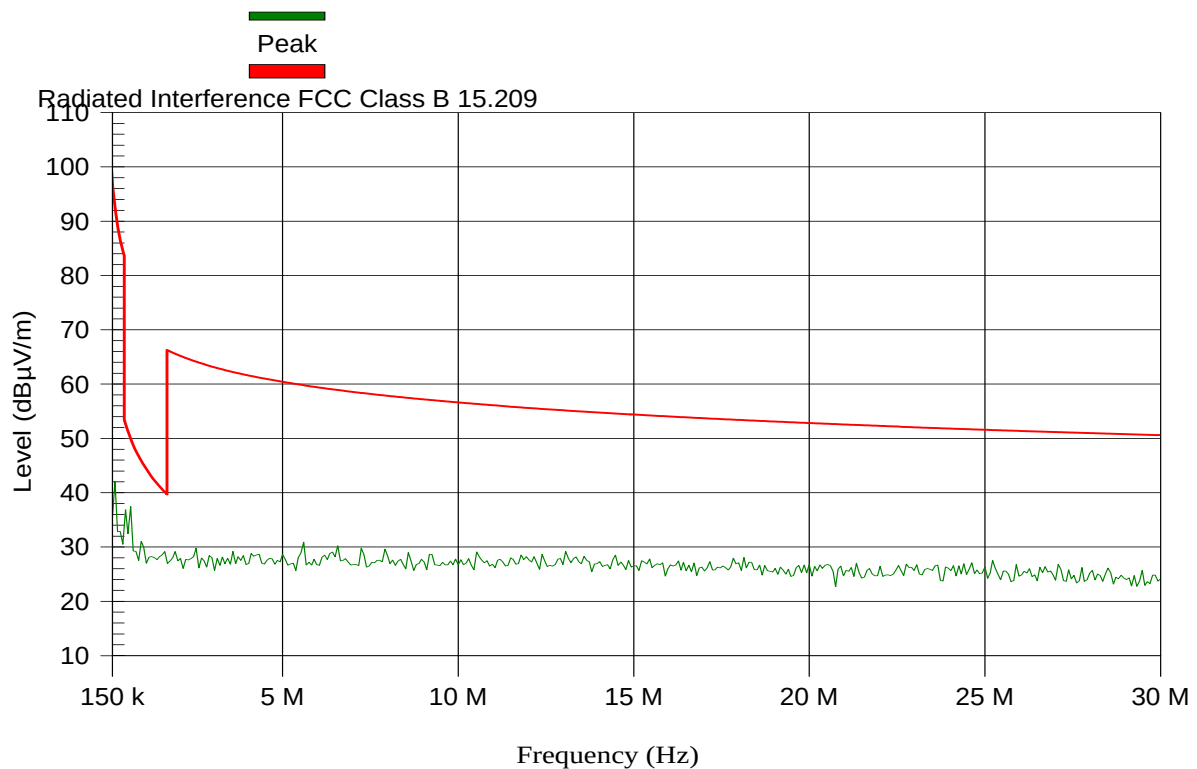
Test Results Plot No 198

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Dish; Mid 5.790 GHz 5 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

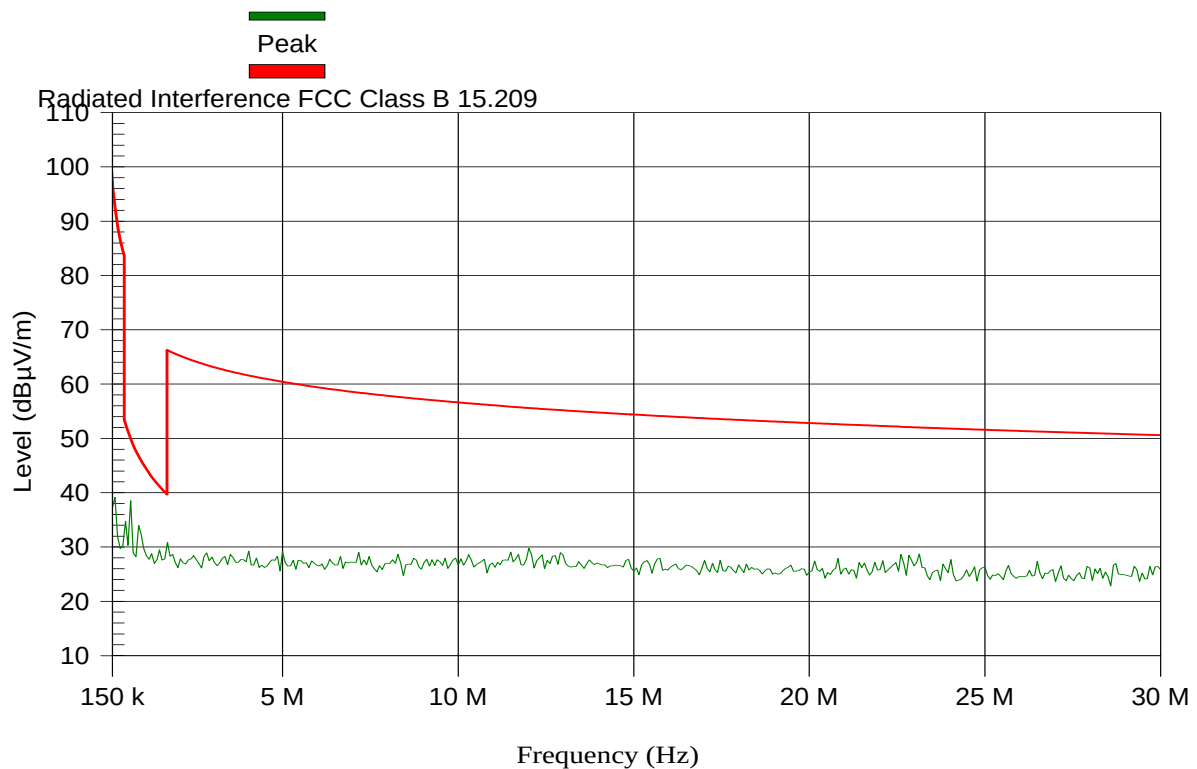
Test Results Plot No 199

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Dish; High 5.845 GHz 5 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

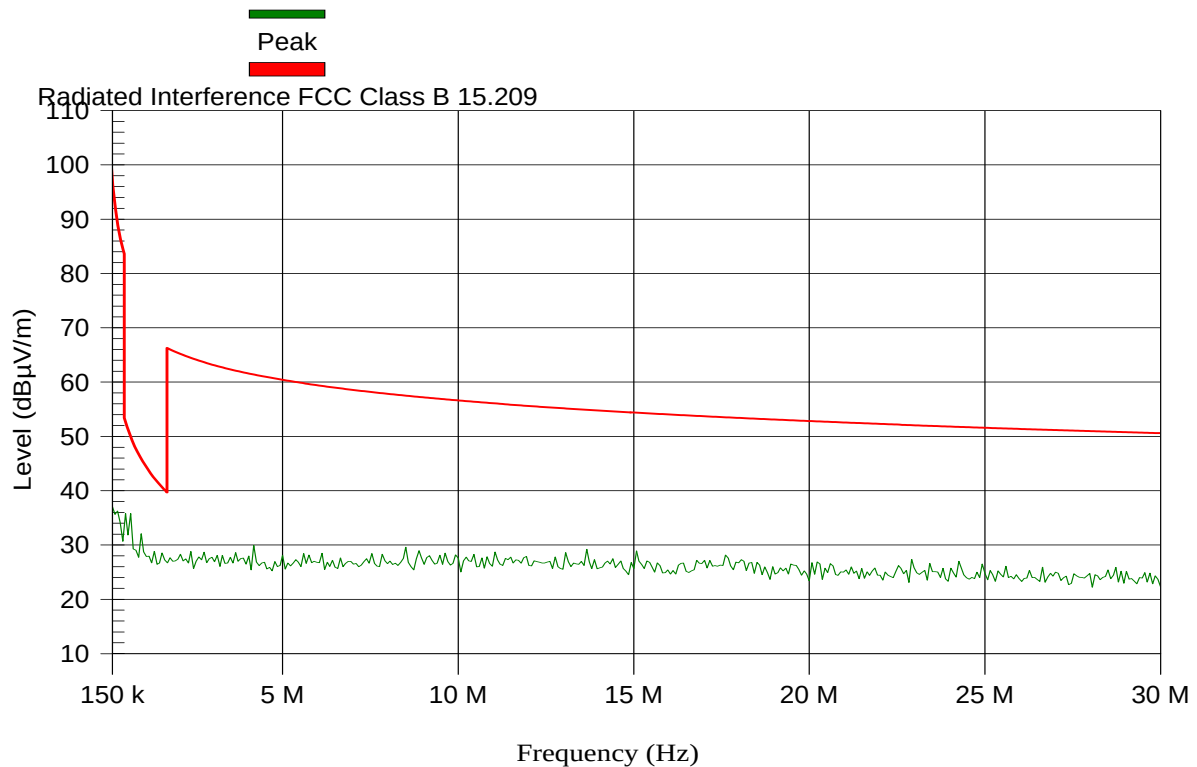
Test Results Plot No 200

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Dish; Low 5.735 GHz 10 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

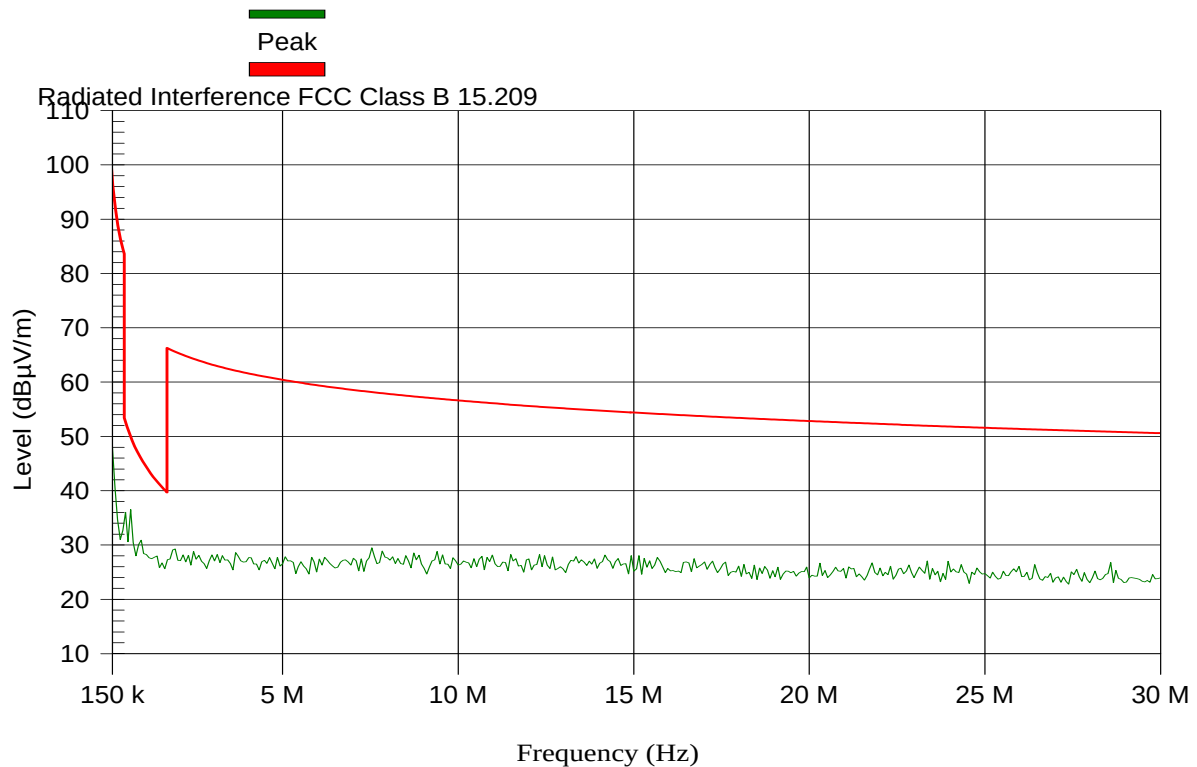
Test Results Plot No 201

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Dish; Mid 5.790 GHz 10 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

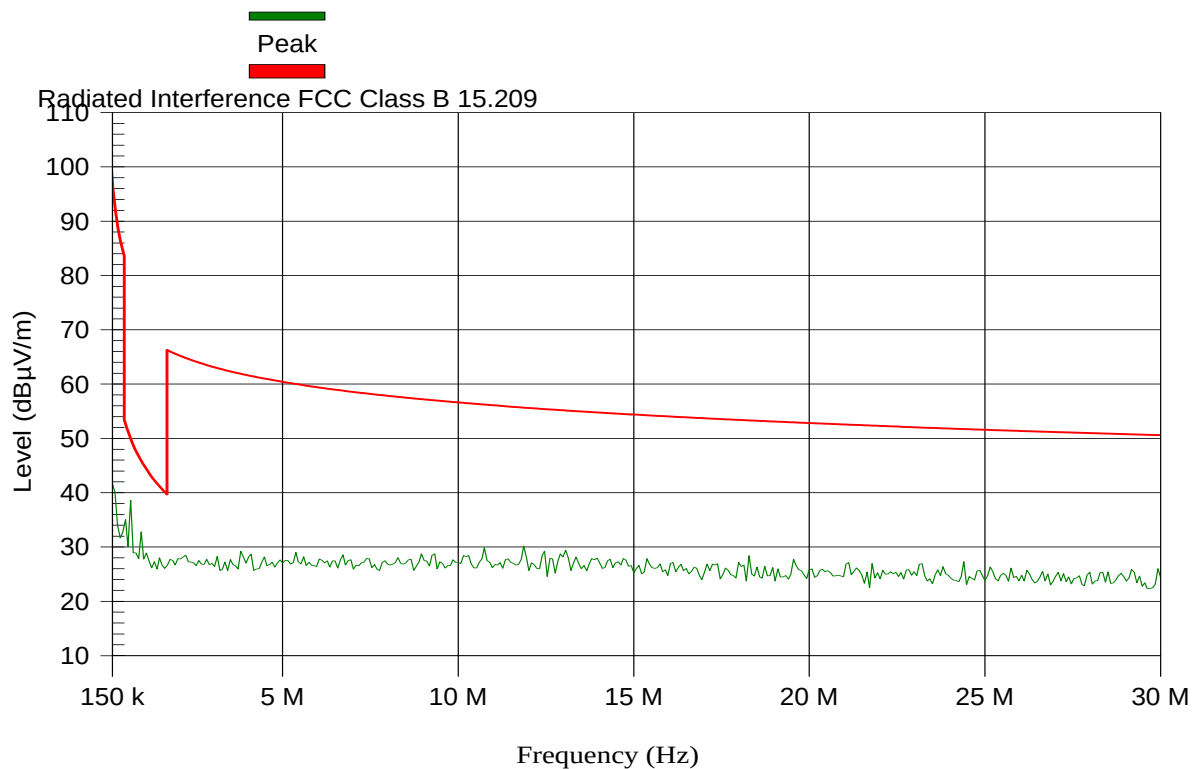
Test Results Plot No 202

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Dish; High 5.840 GHz 10 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

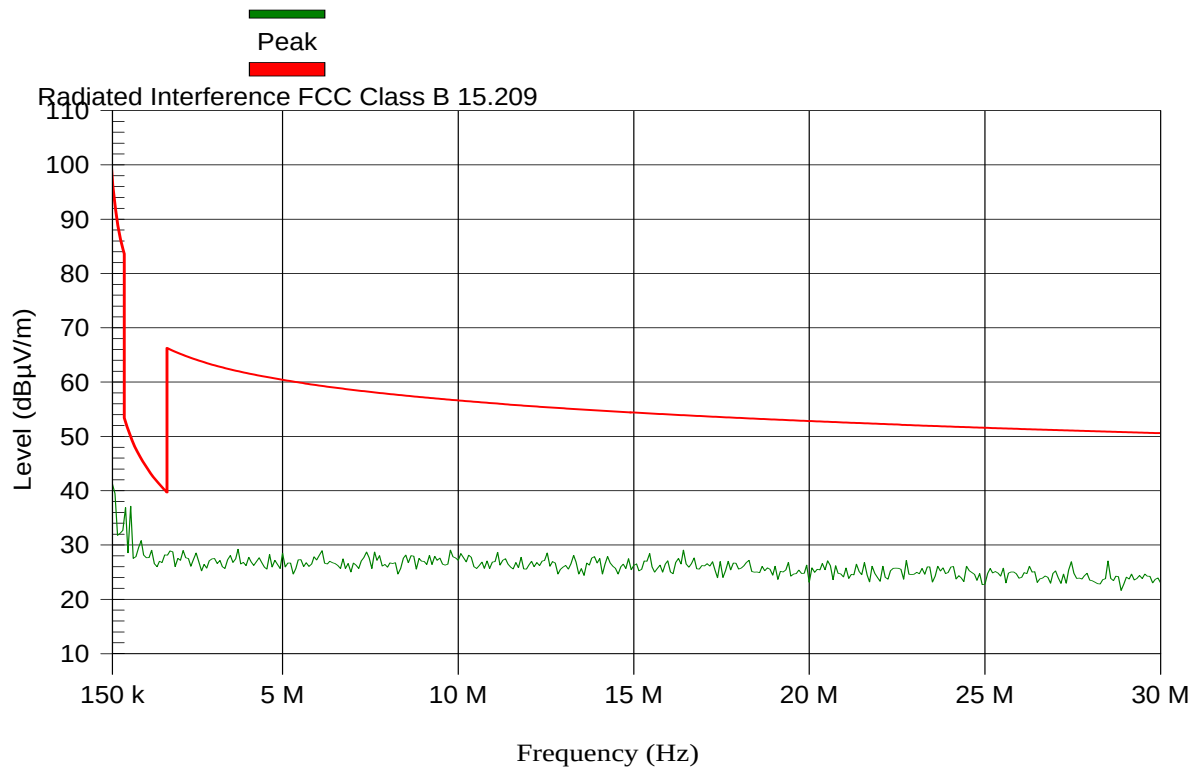
Test Results Plot No 203

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Dish; Low 5.735 GHz 20 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

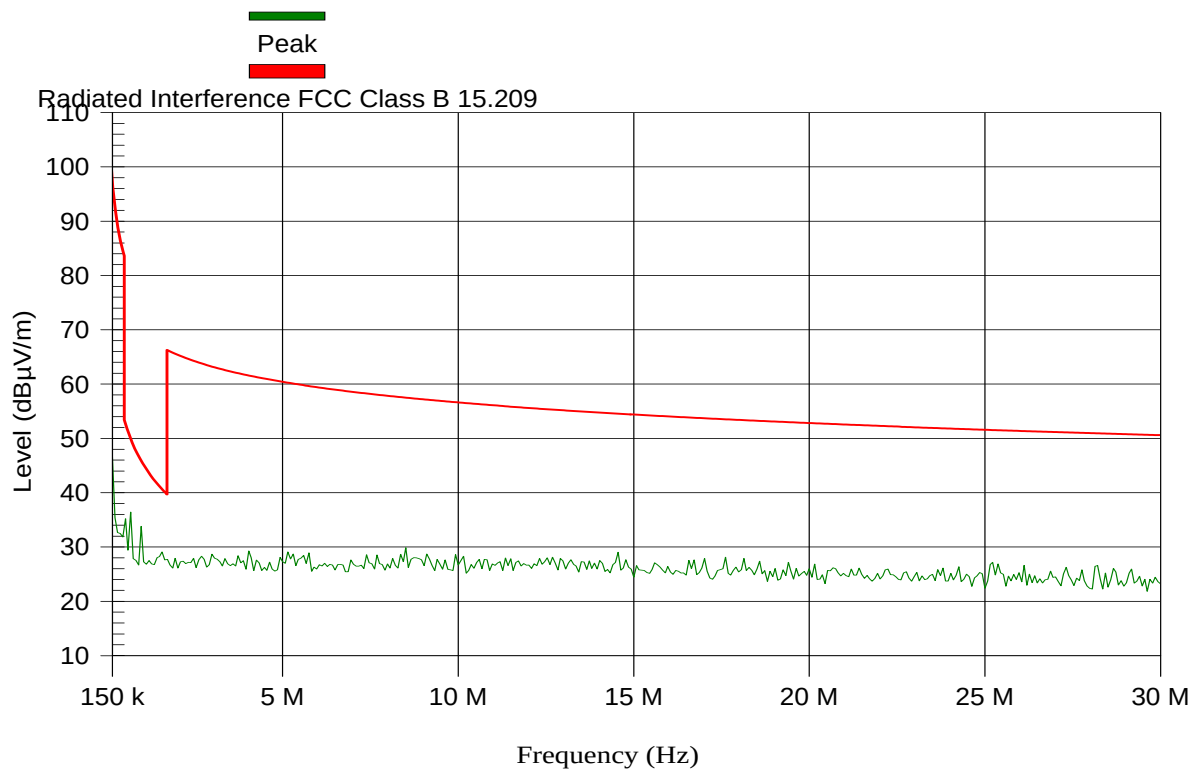
Test Results Plot No 204

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Dish; Mid 5.790 GHz 20 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

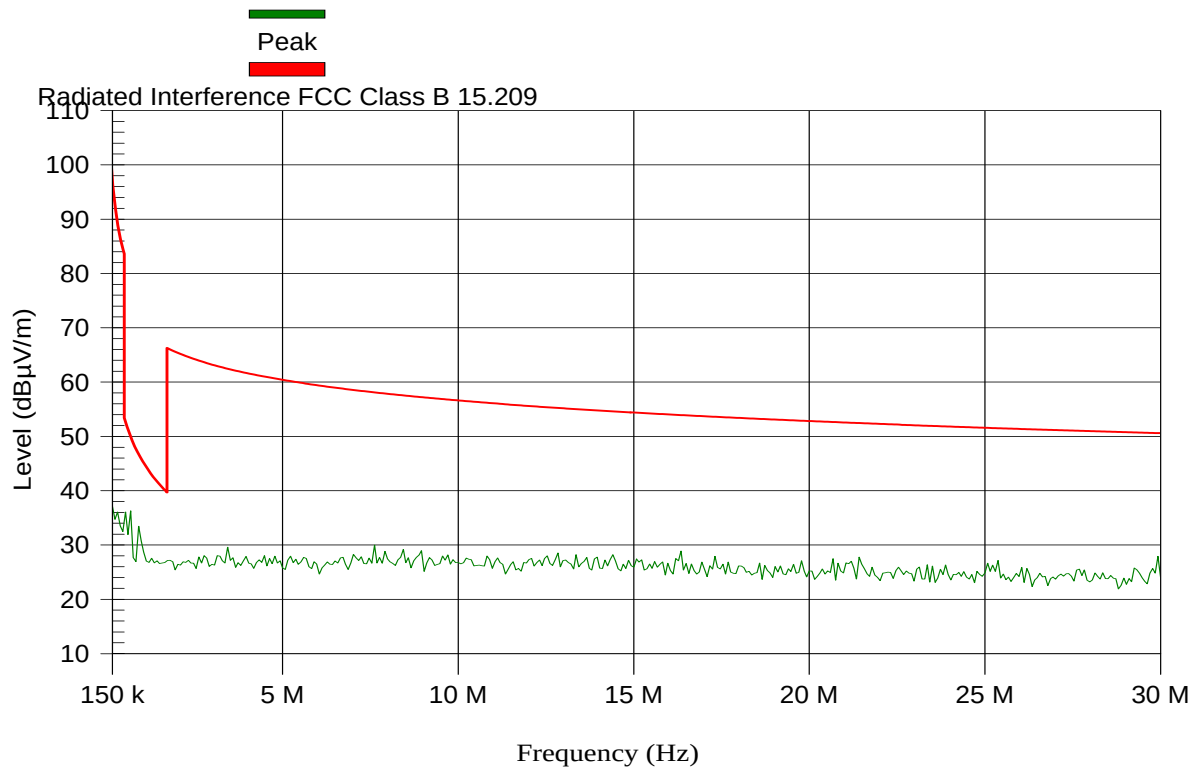
Test Results Plot No 205

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Dish; HIGH 5.84 GHz 20 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

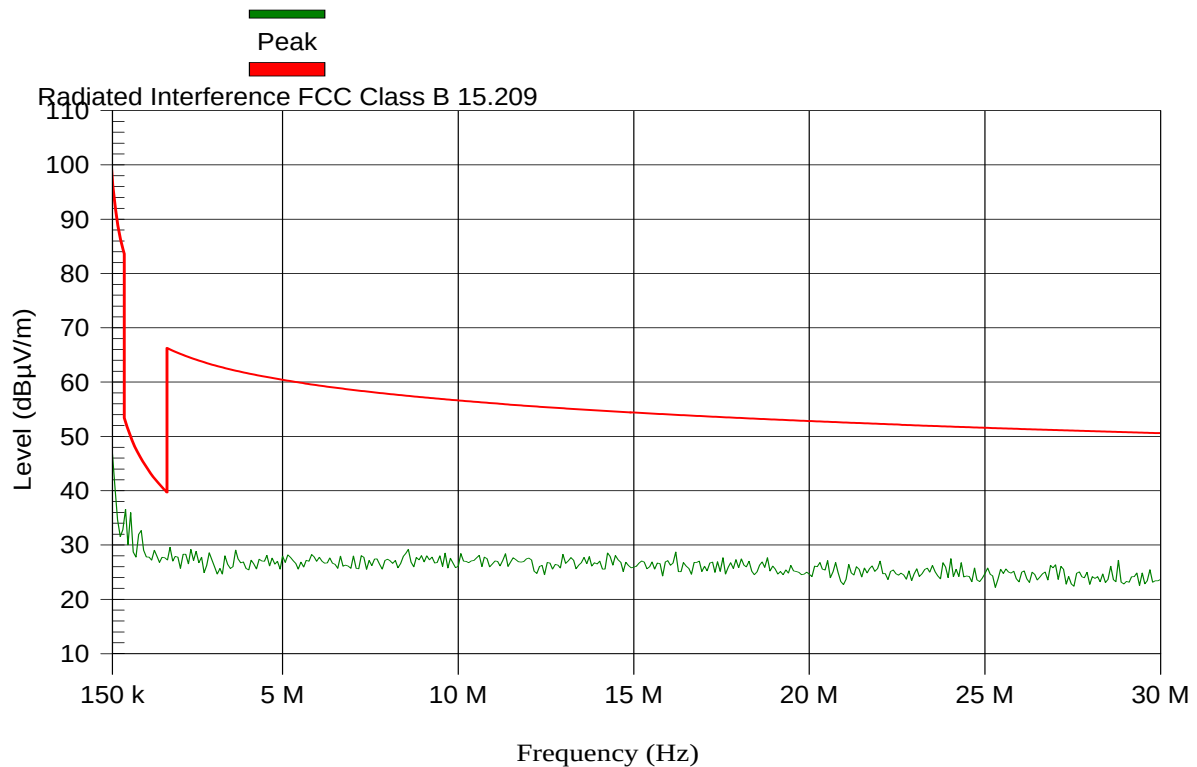
Test Results Plot No 206

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Dish; Low 5.745 GHz 40 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

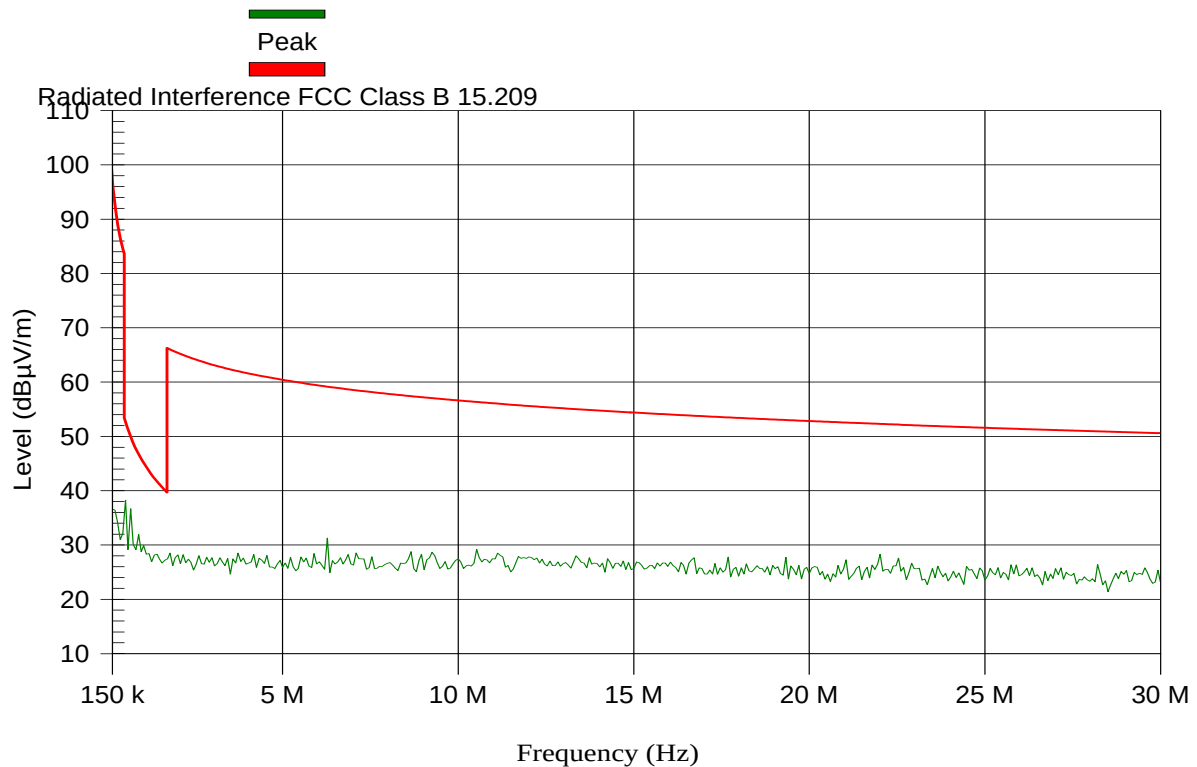
Test Results Plot No 207

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Dish; Mid 5.790 GHz 40 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

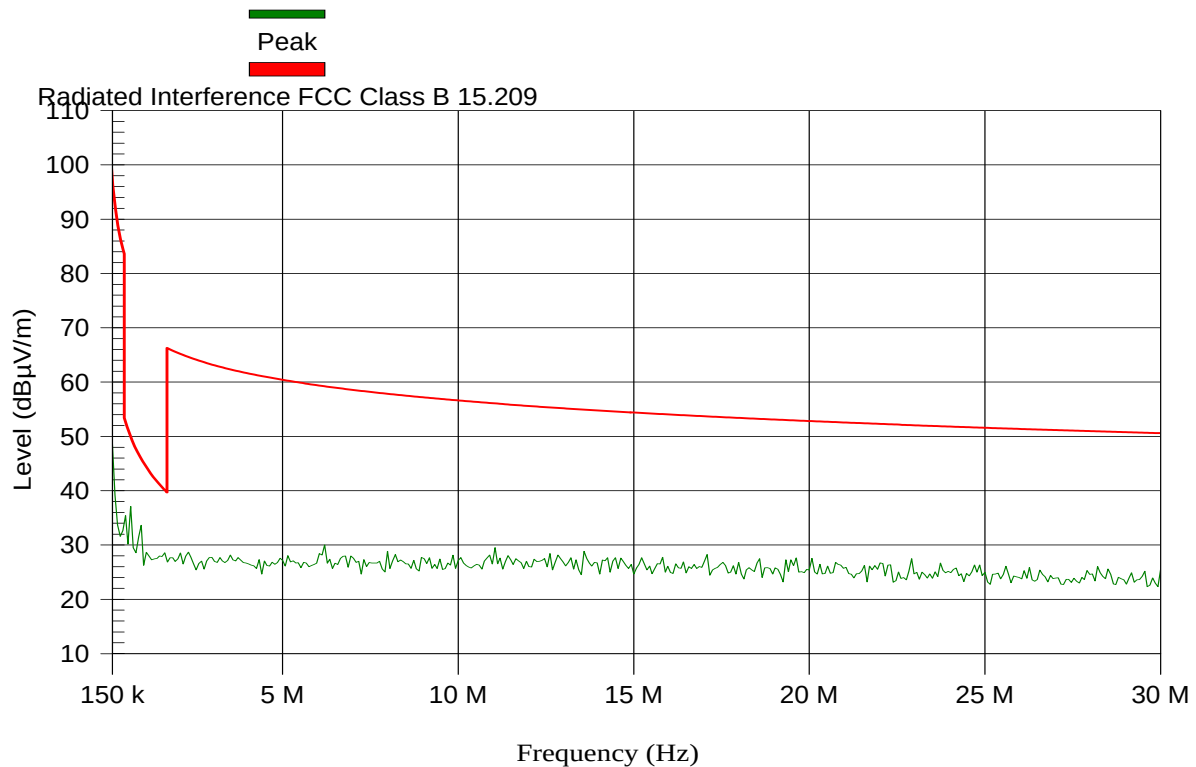
Test Results Plot No 208

150 kHz-30 MHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	LOOP ANT.HFH 2 Z2	Sweep Time:	Auto: 840.04 ms
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 04 March 2010

Dish; High 5.830 GHz 40 MHz BW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

5.10.3. 30 MHz-1 GHz-Dish

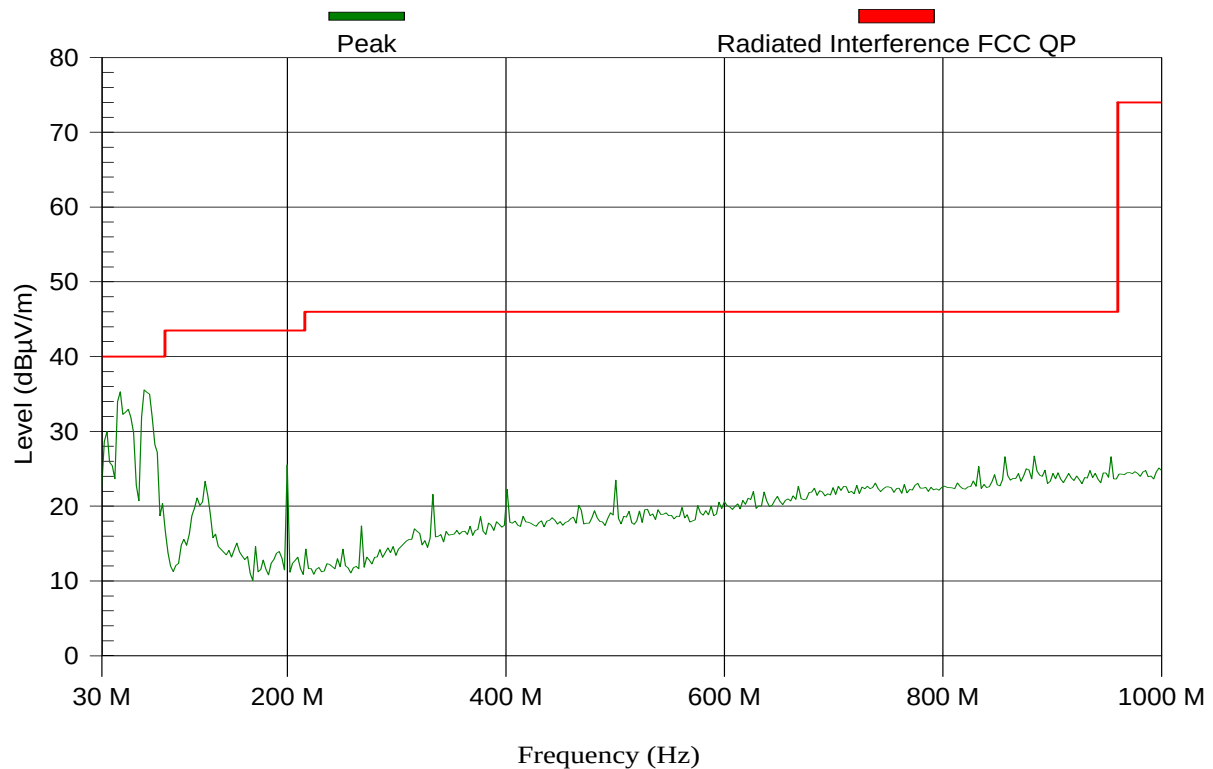
Test Results Plot No 209

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dBμV
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 13:31:38

DISH; Quasi Peak; LOW_5.730 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dBμV/m)	QP Value (dBμV/m)	PK Limit (dBμV/m)	QP Limit (dBμV/m)	Result	Angle (degree s)	Height (m)	H/V
1	45.945	35.1	32.4	40	40	Pass	0	1.6	V
2	69.828	35.7	33.2	40	40	Pass	0	1.6	V

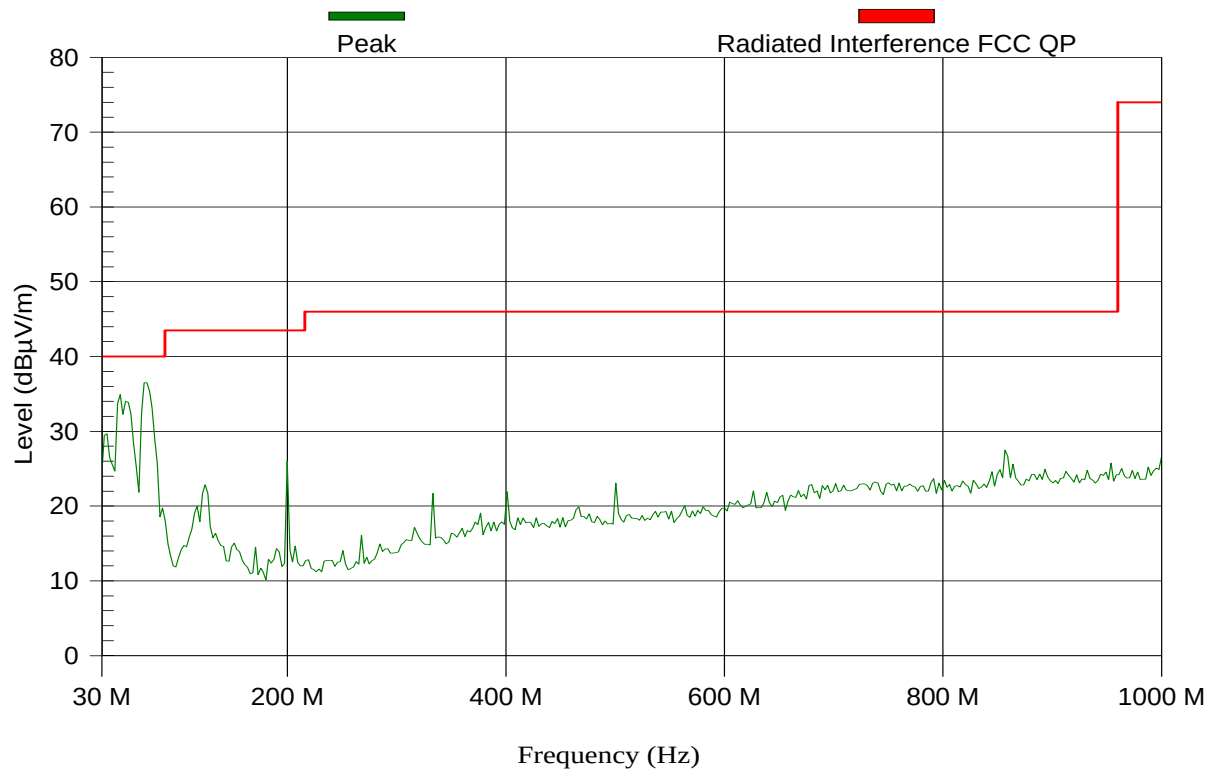
Test Results Plot No 210

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 13:36:47

DISH; Quasi Peak; MID_5.790 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	45.608	35.7	32.6	40	40	Pass	0	1	V
2	50.977	34	31.3	40	40	Pass	0	1	V
3	52.58	34.4	31.5	40	40	Pass	0	1	V
4	69.079	35.4	33.4	40	40	Pass	0	1	V

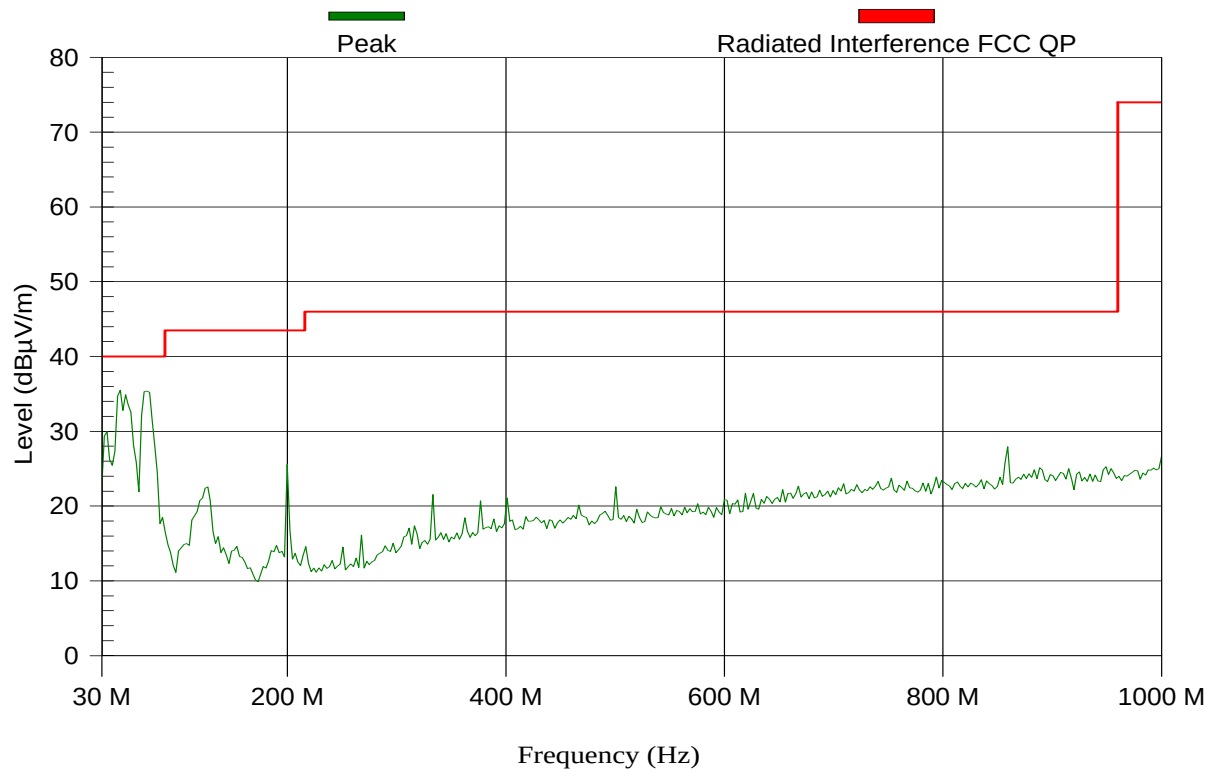
Test Results Plot No 211

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 13:44:17

DISH; Quasi Peak; HIGH_5.845 GHz, BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	45.604	35.9	33	40	40	Pass	0	1	V
2	52.573	34.1	31.4	40	40	Pass	0	1	V
3	69.086	36	33.8	40	40	Pass	0	1	V
4	69.658	36	33.6	40	40	Pass	0	1	V
5	73.091	35.2	32.6	40	40	Pass	0	1	V

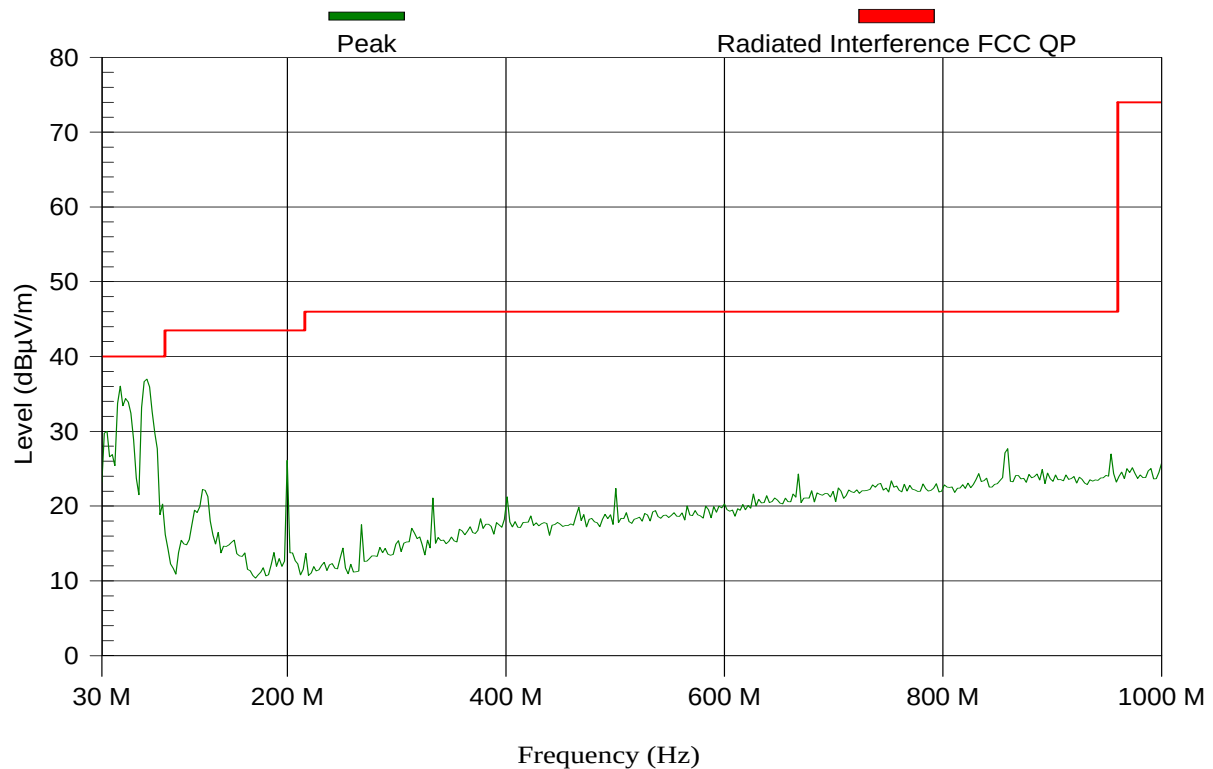
Test Results Plot No 212

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 13:11:56

DISH; Quasi Peak; LOW_5.735 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	45.777	35.5	32.6	40	40	Pass	0	1.2	V
2	51.825	34.4	25	40	40	Pass	0	1	H
3	69.628	35.4	34.2	40	40	Pass	0	1.2	V
4	73.028	35.2	32.9	40	40	Pass	0	1.2	V

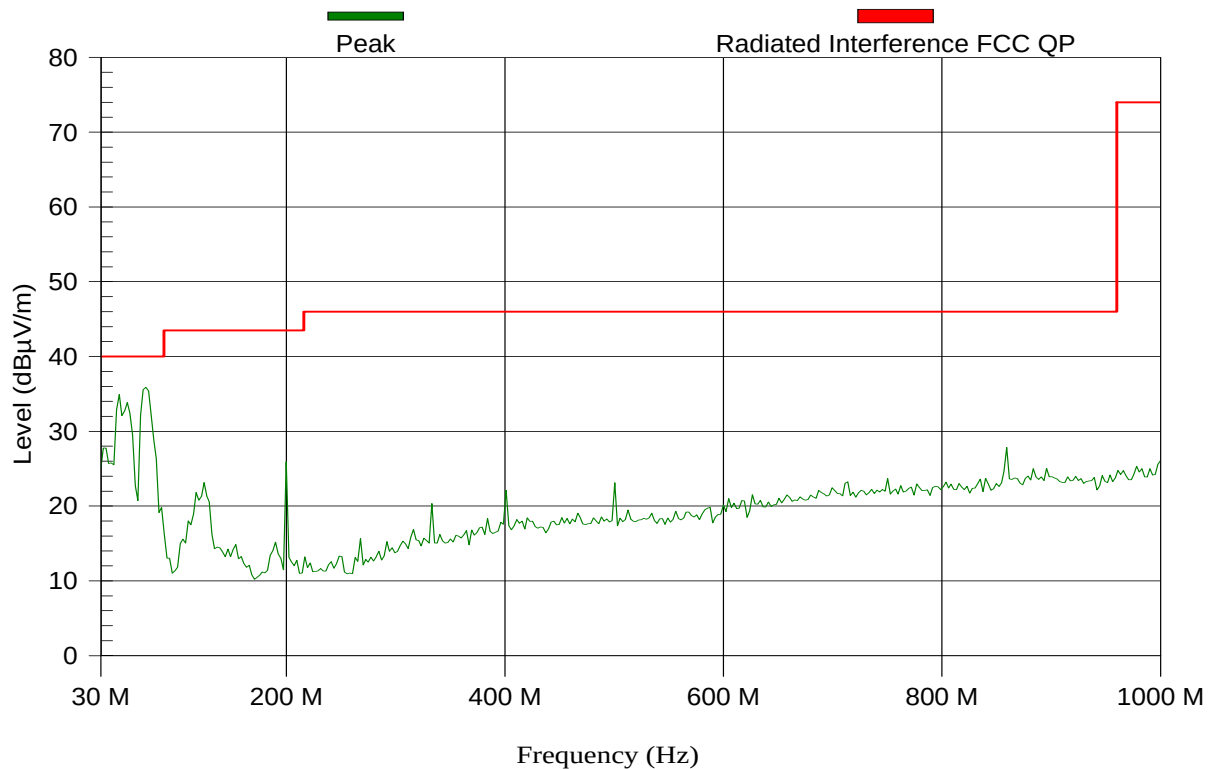
Test Results Plot No 213

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 13:15:16

DISH; Quasi Peak; MID_5.790 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	45.491	35.3	32.5	40	40	Pass	0	1	V
2	69.658	35.6	33.2	40	40	Pass	0	1	V
3	69.851	35.5	32.9	40	40	Pass	0	1	V

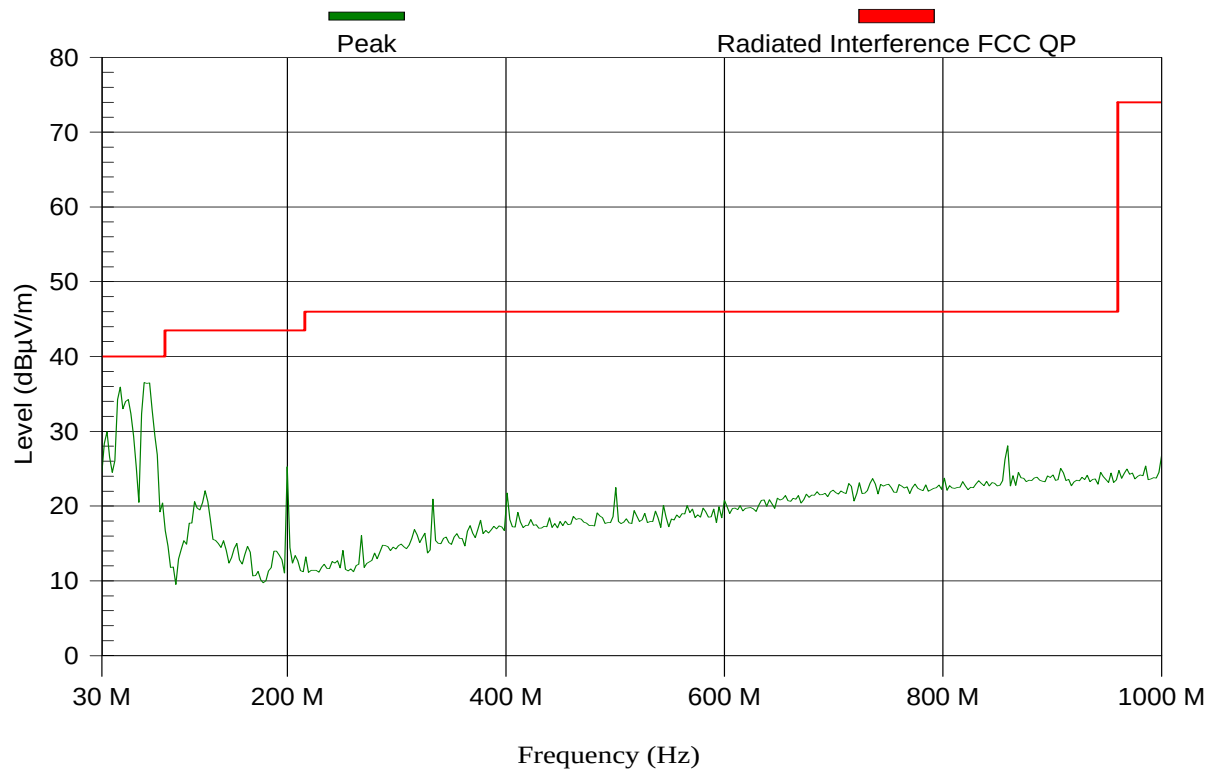
Test Results Plot No 214

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 13:20:44

DISH; Quasi Peak; HIGH_5.840 GHz, BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	45.448	35.3	32.5	40	40	Pass	0	1.4	V
2	54.25	34.3	20.2	40	40	Pass	0	1	H
3	69.788	34.9	33.8	40	40	Pass	0	1.4	V
4	70.836	35.3	33.6	40	40	Pass	0	1.4	V
5	71.225	36.3	18.3	40	40	Pass	0	1	H

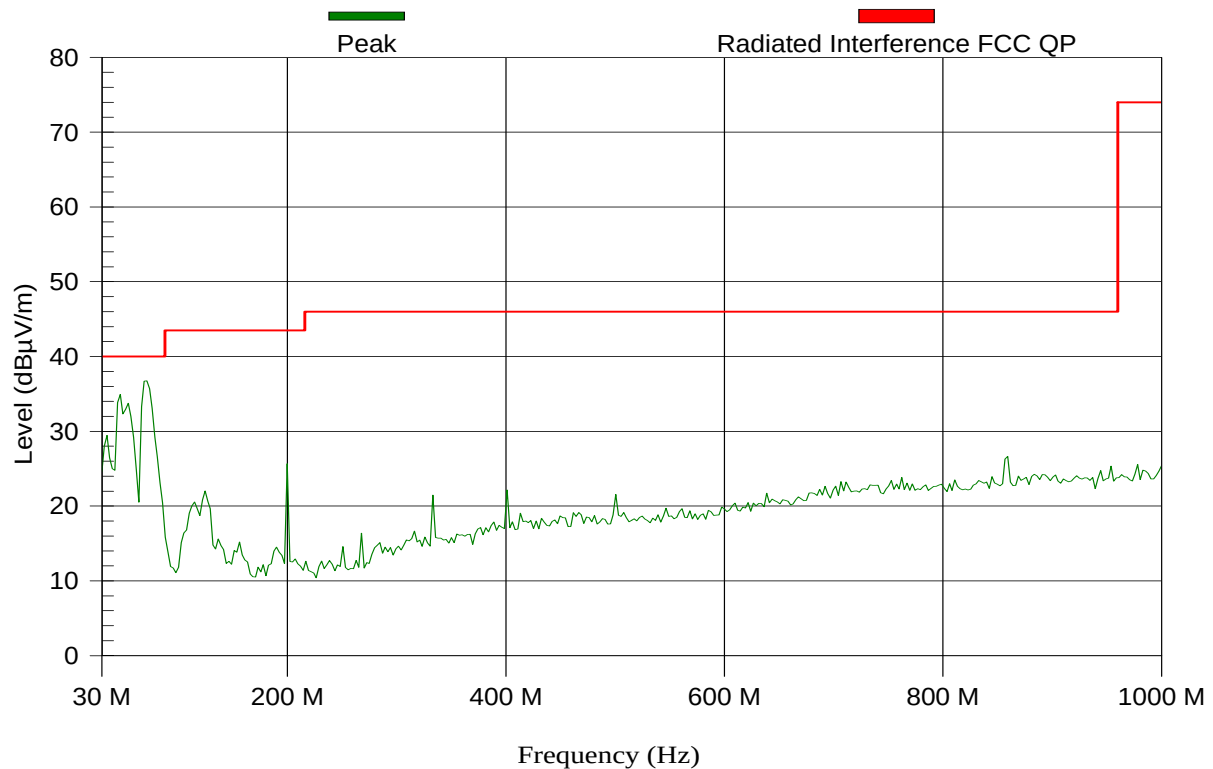
Test Results Plot No 215

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:59:30

DISH; Quasi Peak; LOW_5.735 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	45.475	34.8	32.4	40	40	Pass	0	1.4	V
2	69.302	35.5	33.4	40	40	Pass	0	1.4	V
3	72.892	35.4	5.8	40	40	Pass	0	1.4	V

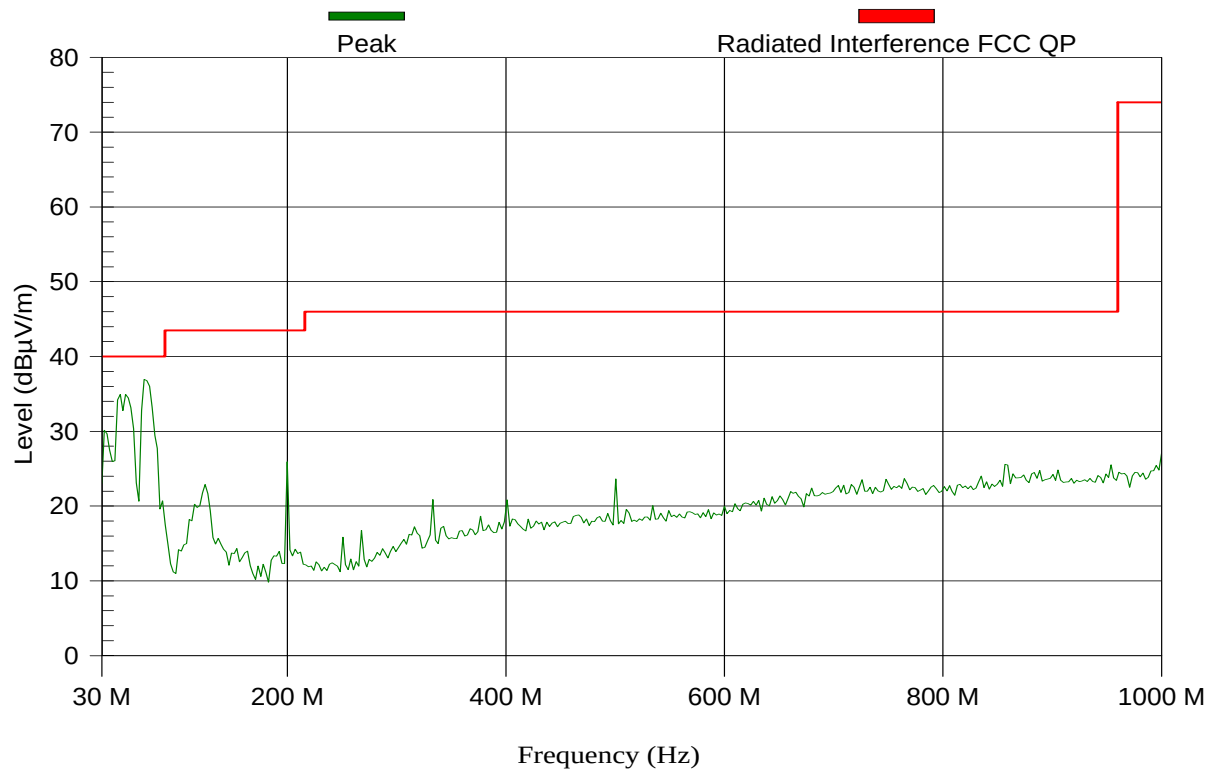
Test Results Plot No 216

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 13:04:01

DISH; Quasi Peak; MID_5.790 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	45.771	36.1	33.2	40	40	Pass	0	1	V
2	45.944	35.2	32.8	40	40	Pass	0	1	V
3	52.094	34.2	24.7	40	40	Pass	0	1	H
4	68.91	35.9	33.8	40	40	Pass	0	1	V
5	69.229	36.9	33.8	40	40	Pass	0	1	V

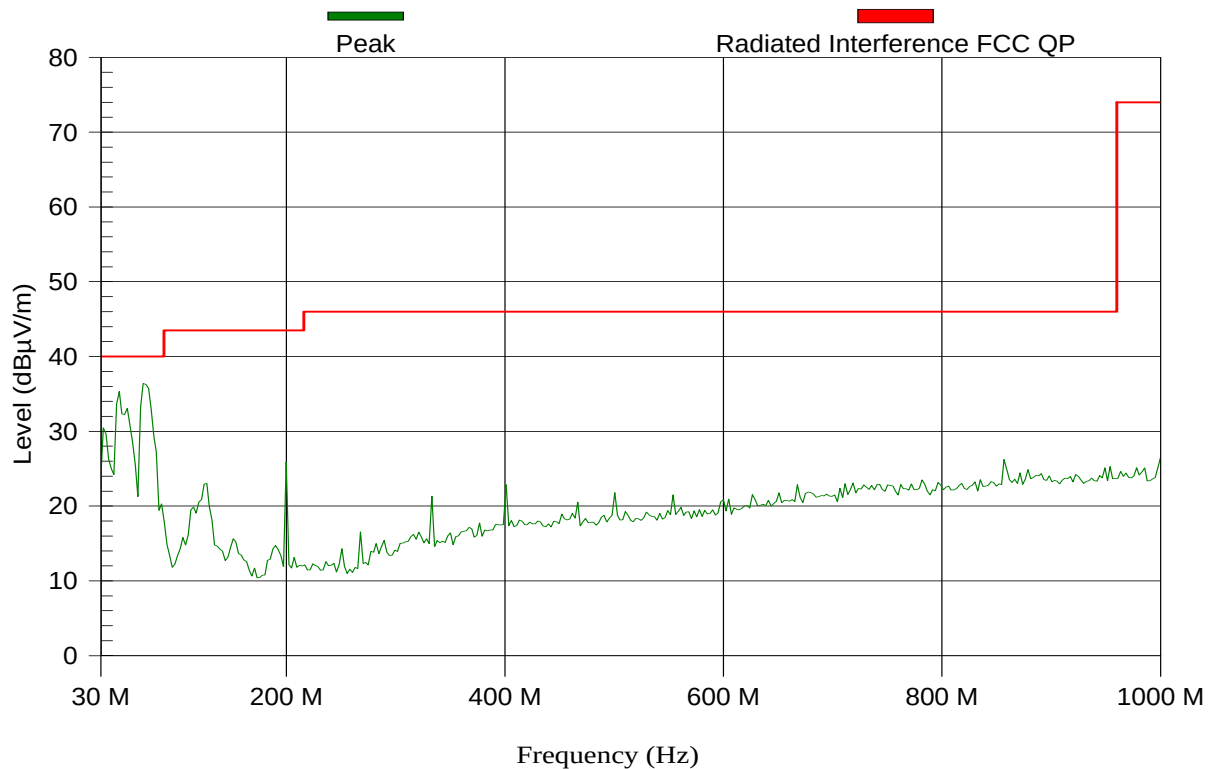
Test Results Plot No 217

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 13:07:26

DISH; Quasi Peak; HIGH_5.840 GHz, BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	69.189	36.1	33.6	40	40	Pass	0	1	V
2	72.576	34.8	33.2	40	40	Pass	0	1.6	V
3	72.908	35.3	32.7	40	40	Pass	0	1	V

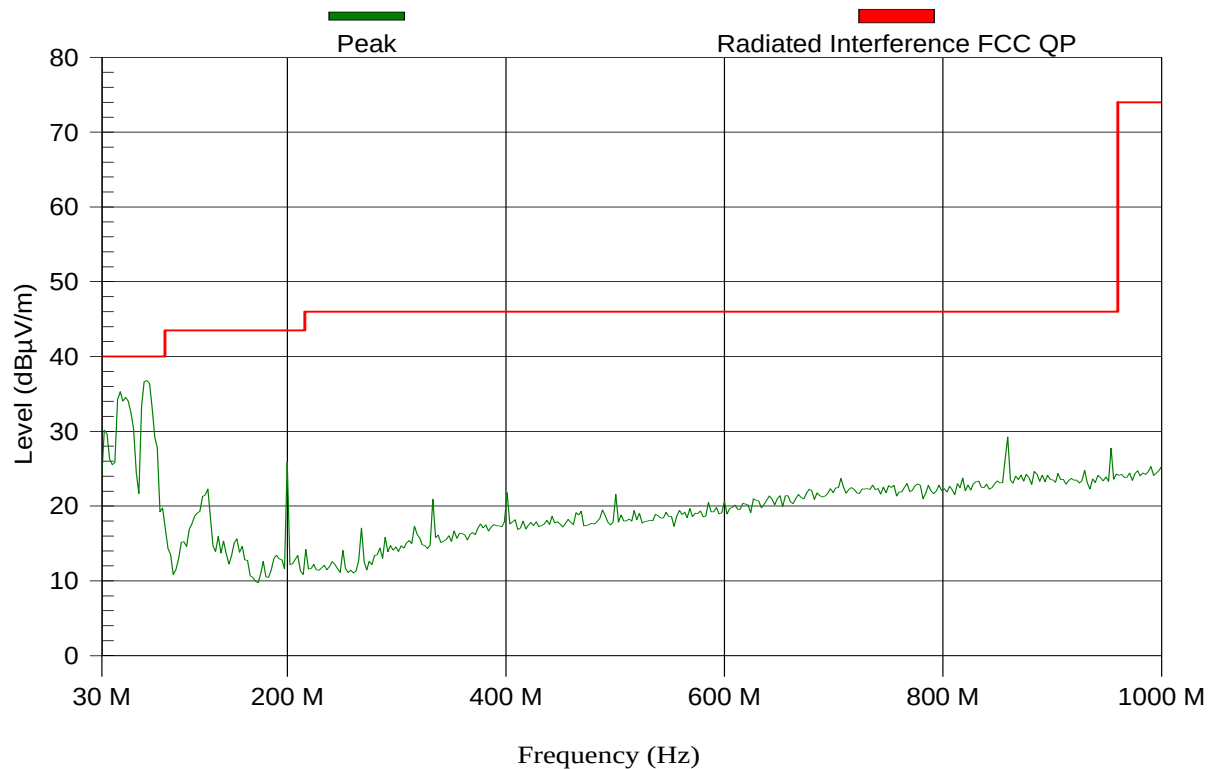
Test Results Plot No 218

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:47:56

DISH; Quasi Peak; LOW_5.745 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	45.358	34.2	16.7	40	40	Pass	0	1	H
2	45.834	35.7	33	40	40	Pass	0	1	V
3	68.749	35.6	33.4	40	40	Pass	0	1	V
4	69.016	35.4	33.8	40	40	Pass	0	1	V

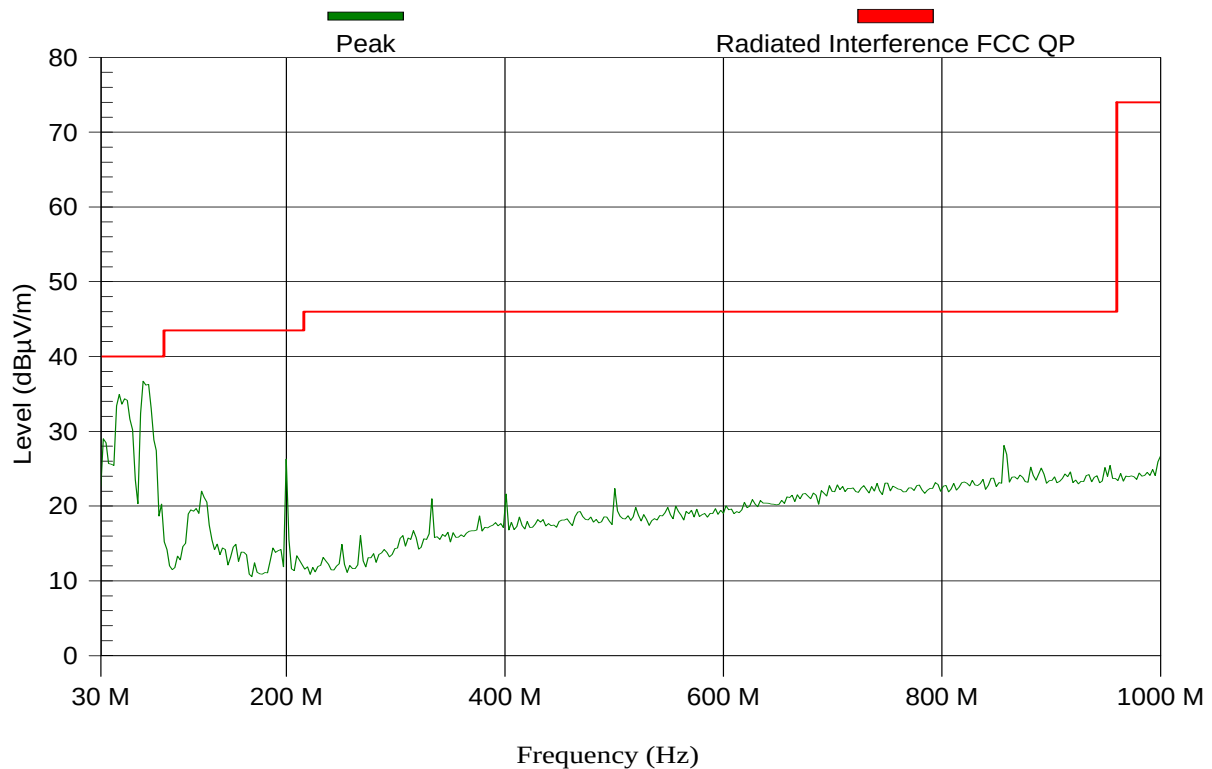
Test Results Plot No 219

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:51:48

DISH; Quasi Peak; MID_5.790 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	51.339	34.1	31.4	40	40	Pass	0	1	V
2	52.863	34.3	31.7	40	40	Pass	0	1	V
3	69.199	35.8	33.7	40	40	Pass	0	1	V
4	72.276	34.5	32.7	40	40	Pass	0	1	V

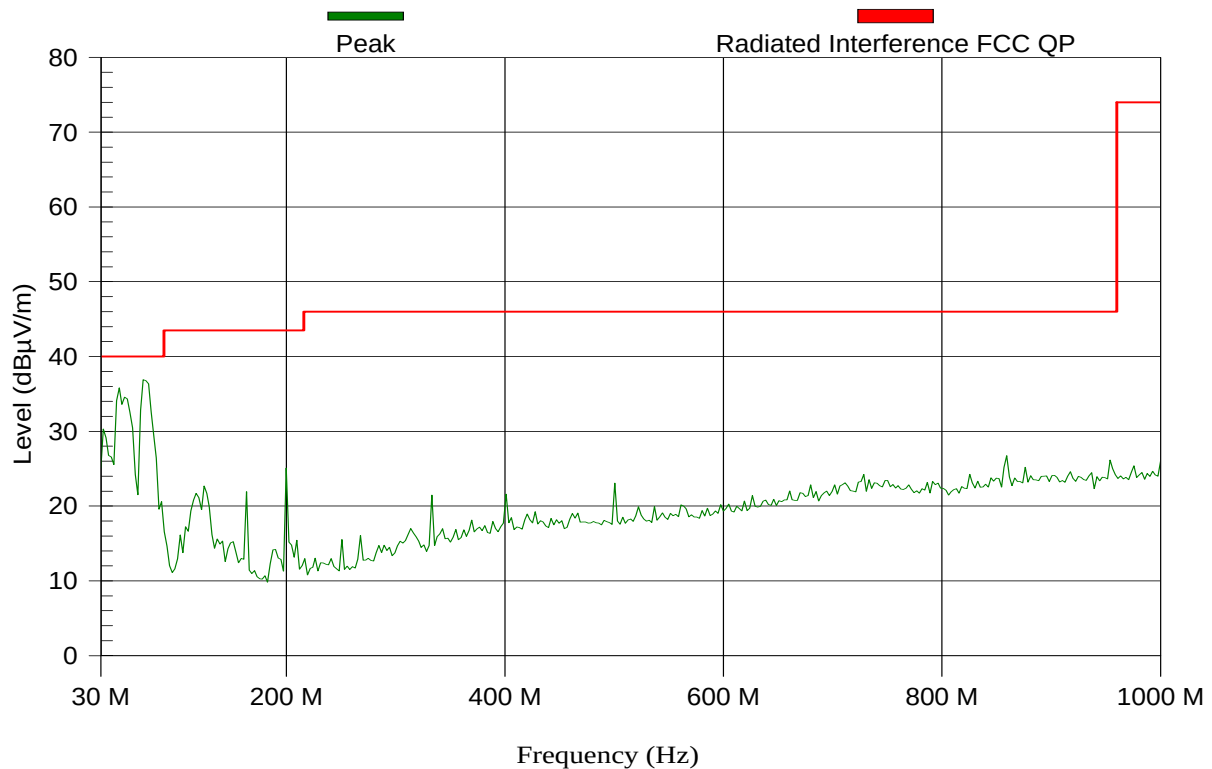
Test Results Plot No 220

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	02.03.2010	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia BTA red -L_A 3m	Sweep Time:	Auto: 155.08 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: 02 March 2010 12:56:02

DISH; Quasi Peak; HIGH_5.830 GHz, BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	QP Value (dB μ V/m)	PK Limit (dB μ V/m)	QP Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	45.714	35.7	33.2	40	40	Pass	0	1	V
2	68.8	36.9	21.8	40	40	Pass	0	1	H
3	69.199	36.4	33.8	40	40	Pass	0	1	V
4	72.842	36	13.1	40	40	Pass	0	1	H

5.10.4. 1 GHz-2.9 GHz-Dish

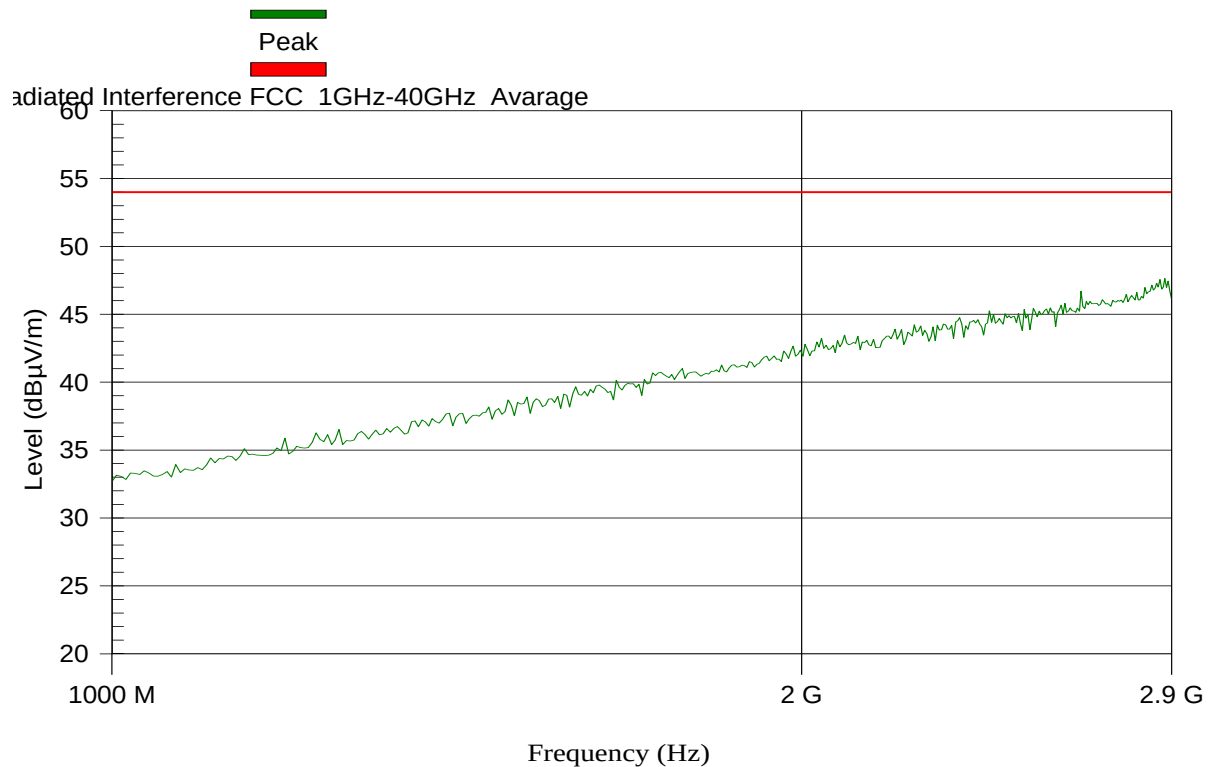
Test Results Plot No 221

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 3:05:09 PM

AVG; DISH ANTENNA; TX LOW 5730 MHz BW-5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

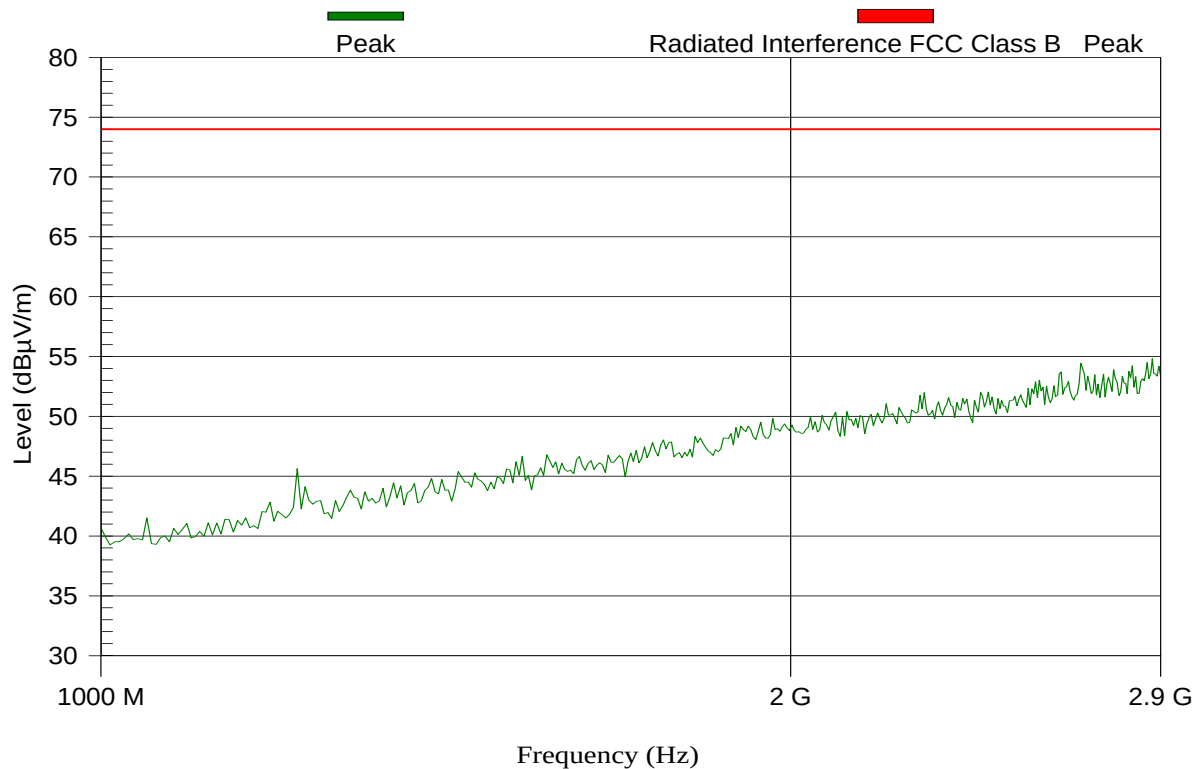
Test Results Plot No 222

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 2:59:34 PM

Peak; DISH ANTENNA; TX LOW 5730 MHz BW-5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

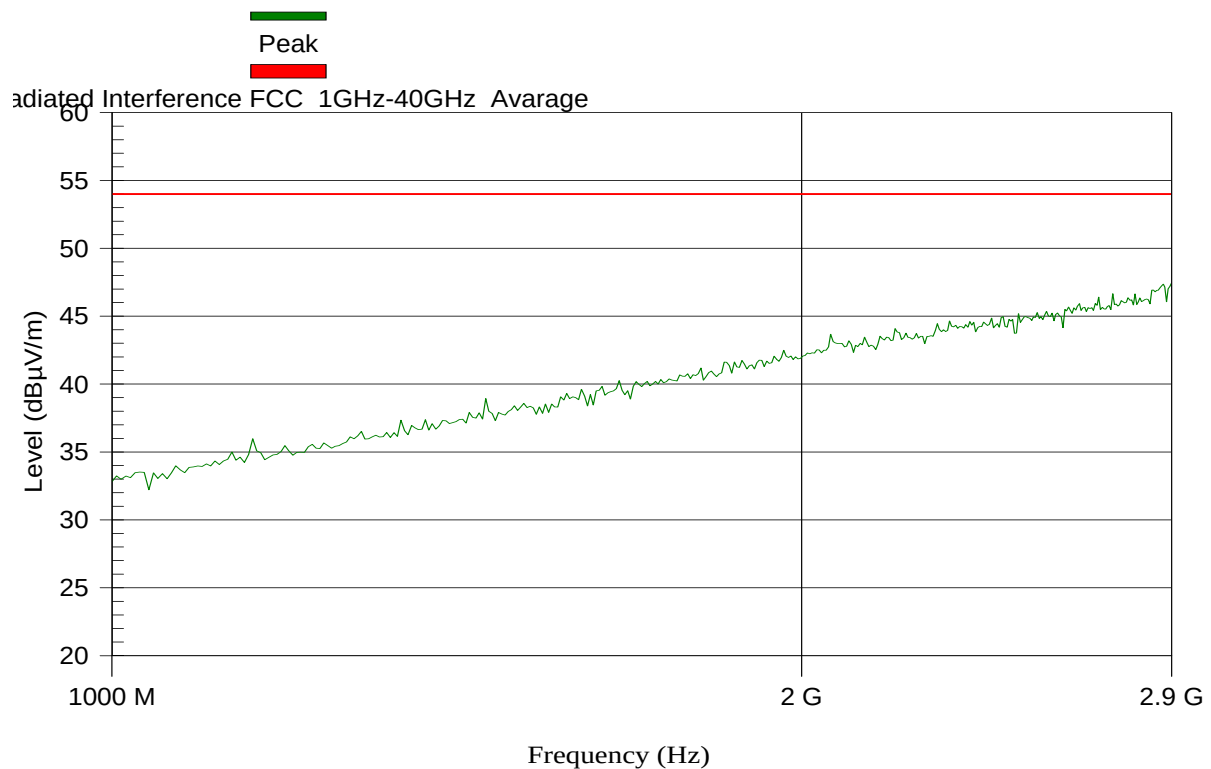
Test Results Plot No 223

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 2:52:54 PM

AVG; DISH ANTENNA; TX MID 5790 MHz BW-5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

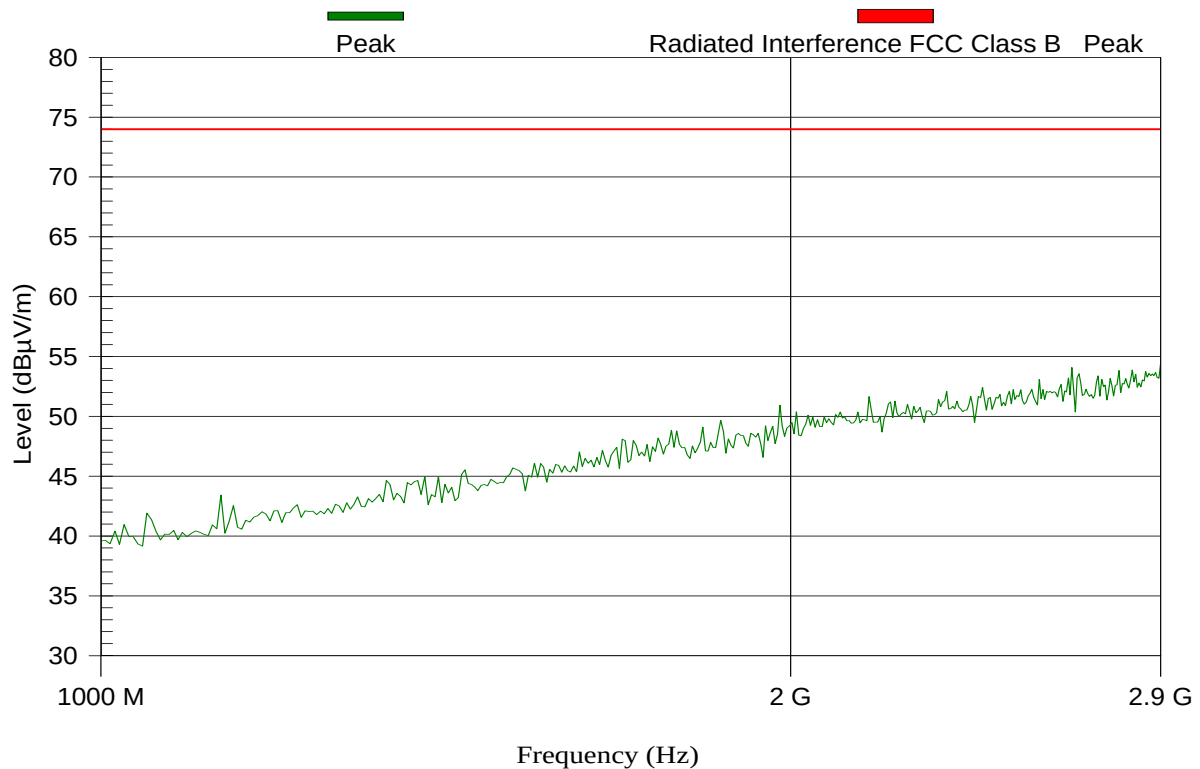
Test Results Plot No 224

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dBμV
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 2:47:10 PM

Peak; DISH ANTENNA; TX MID 5790 MHz BW-5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

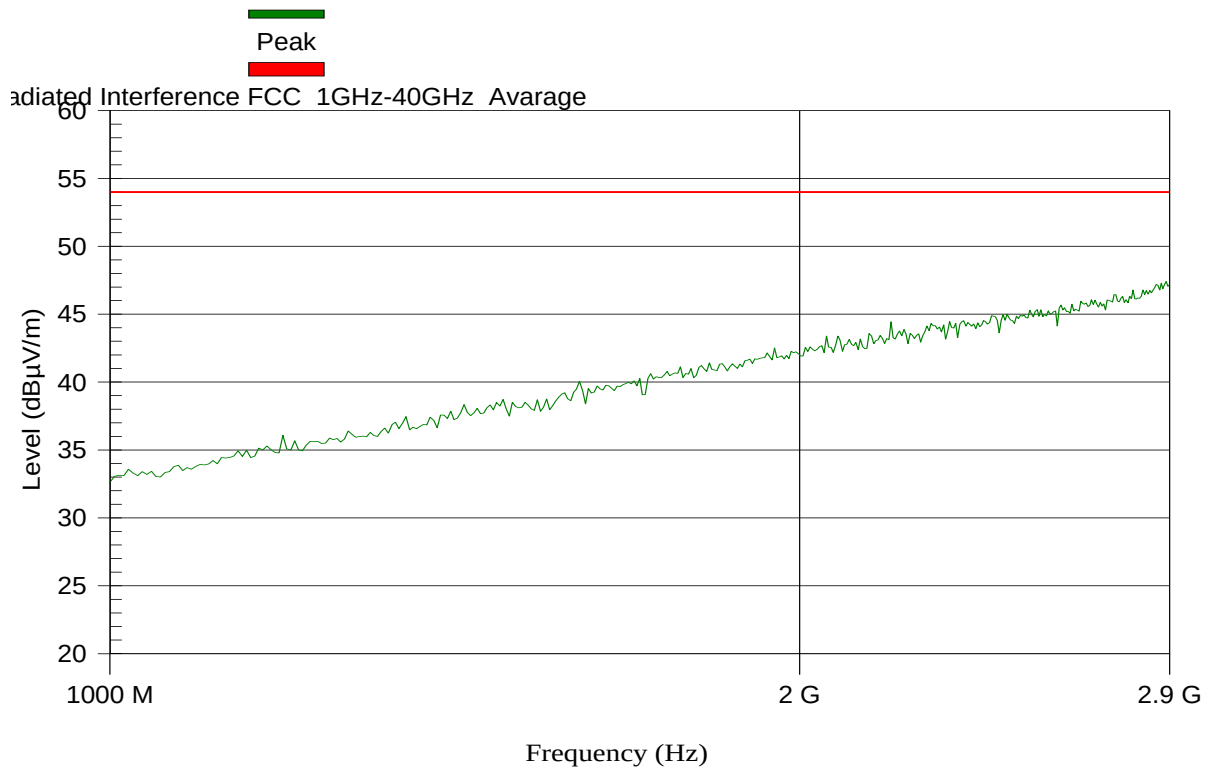
Test Results Plot No 225

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 2:39:15 PM

AVG; DISH ANTENNA; TX HIGH 5845 MHz BW-5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

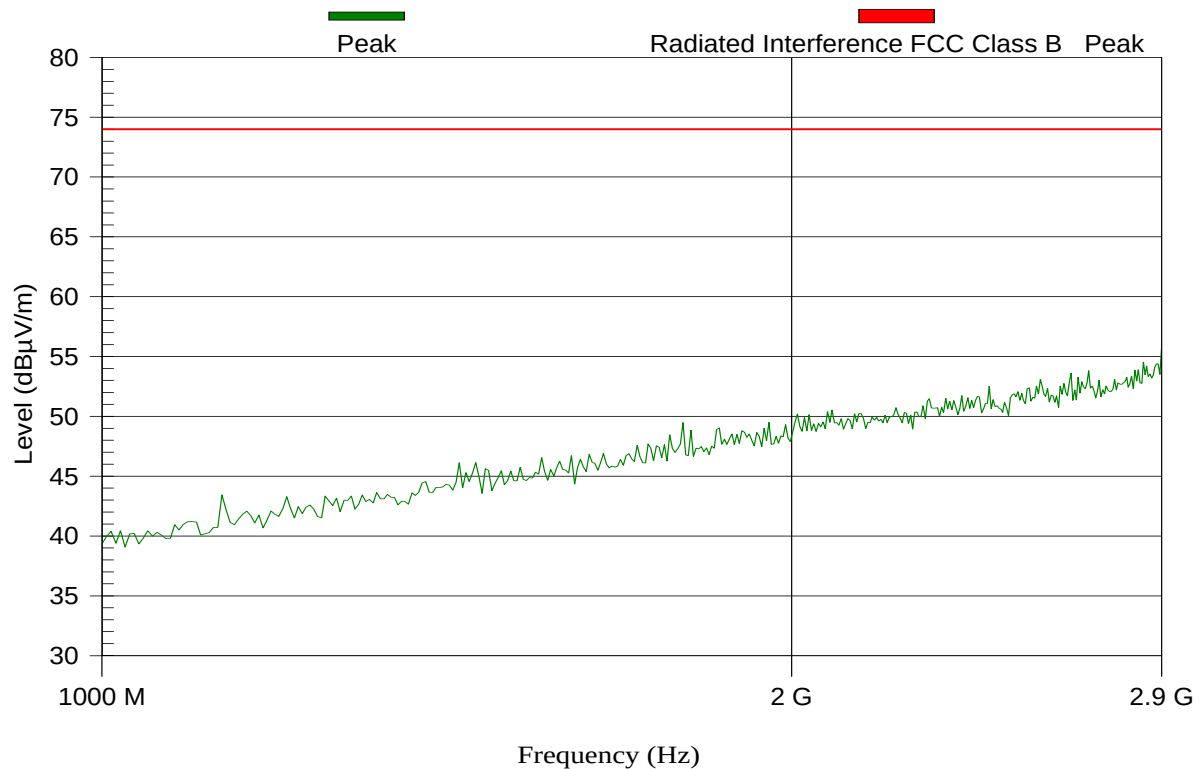
Test Results Plot No 226

1-2.9 GHz TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 2:30:26 PM

PEAK; DISH ANTENNA; TX HIGH 5845 MHz BW-5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

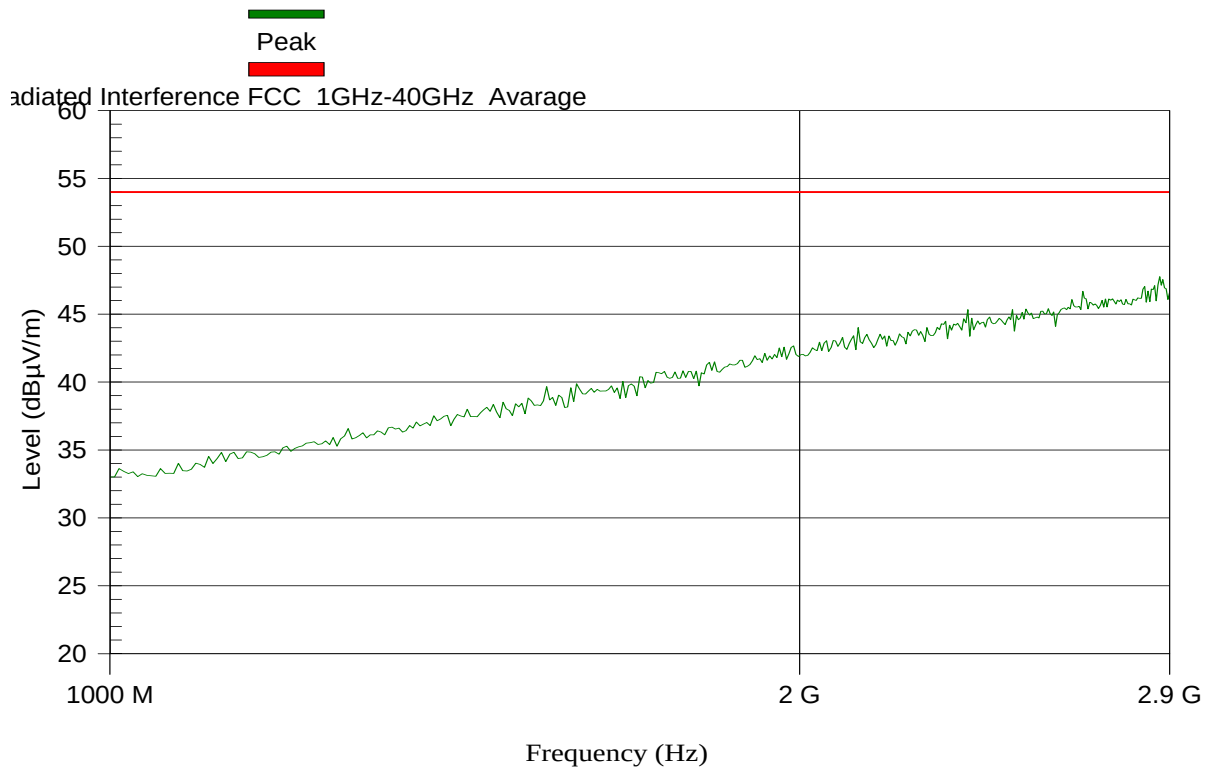
Test Results Plot No 227

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 3:12:11 PM

AVG; DISH ANTENNA; TX LOW 5735 MHz BW-10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

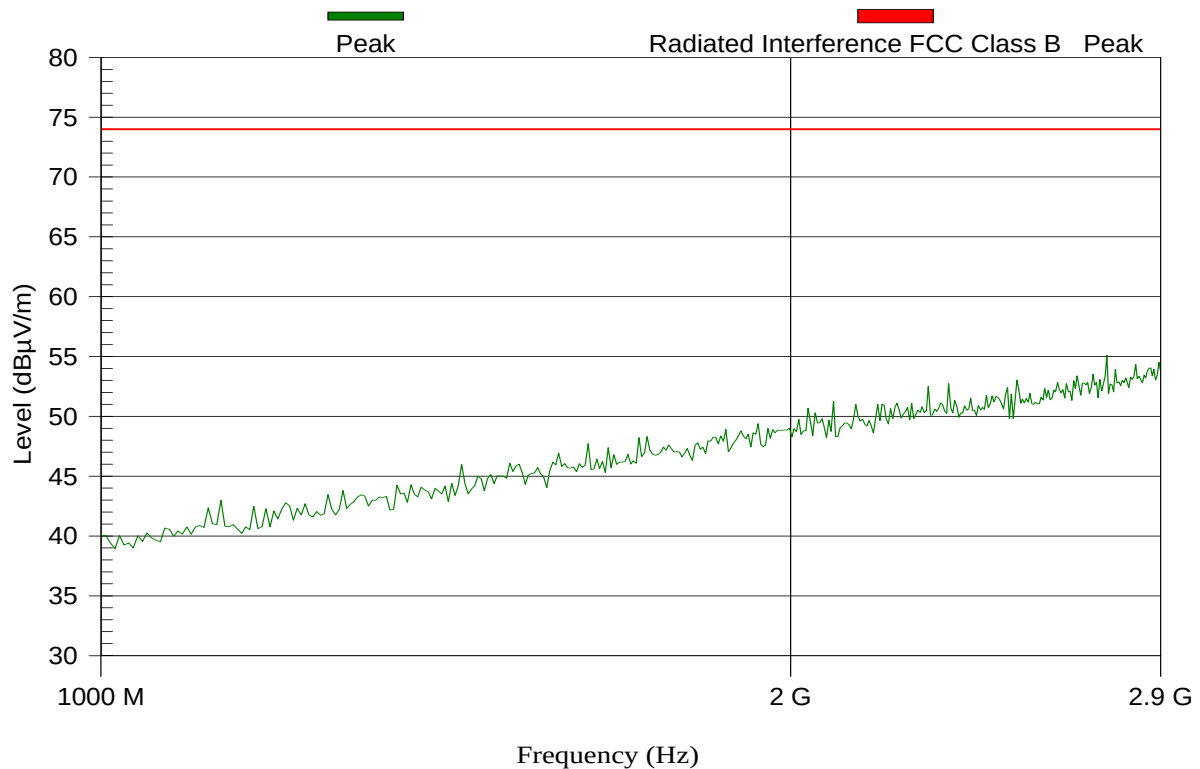
Test Results Plot No 228

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 3:22:02 PM

Peak; DISH ANTENNA; TX LOW 5735 MHz BW-10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

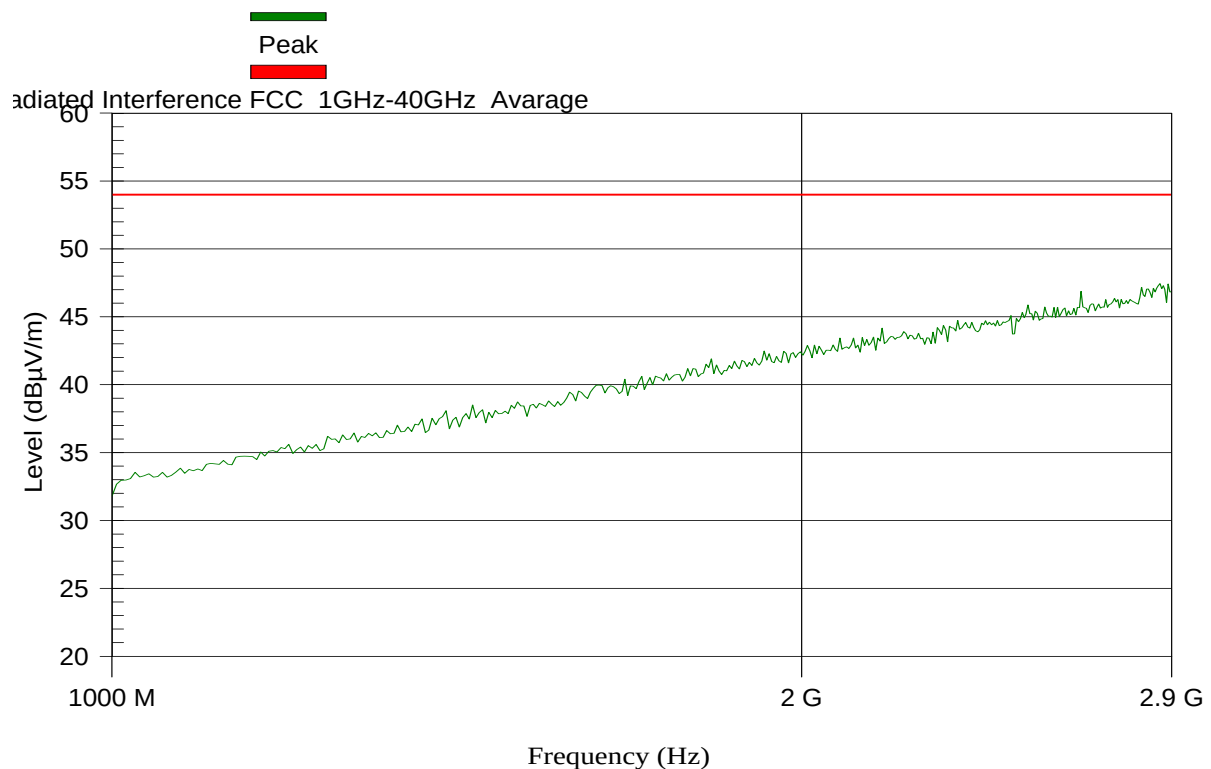
Test Results Plot No 229

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 3:42:25 PM

AVG; DISH ANTENNA; TX MID 5790 MHz BW-10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

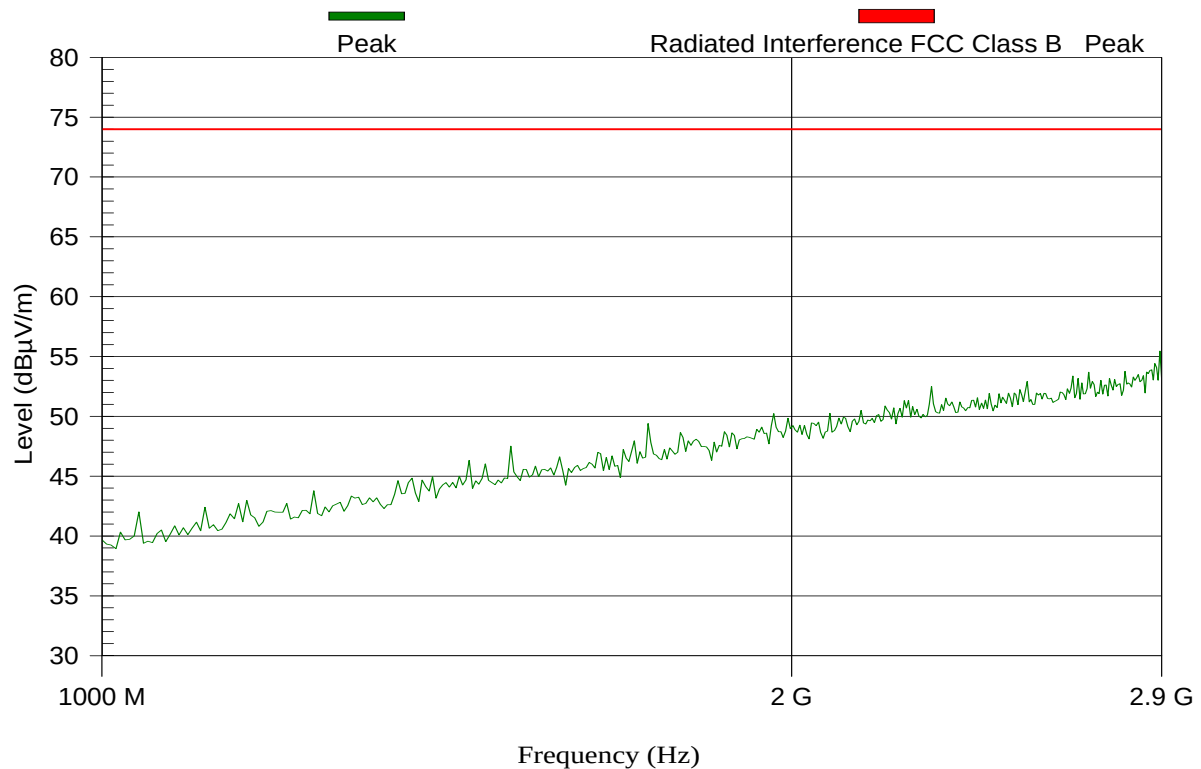
Test Results Plot No 230

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 3:35:36 PM

PEAK; DISH ANTENNA; TX MID 5790 MHz BW-10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

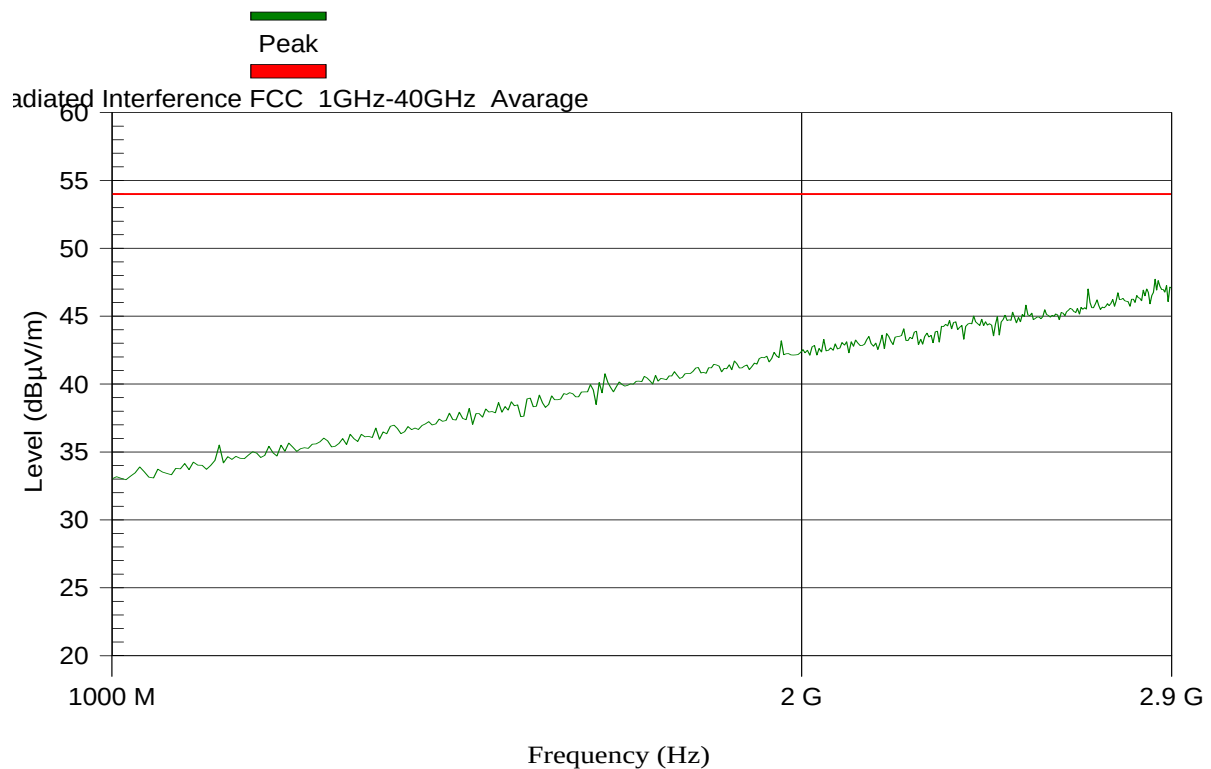
Test Results Plot No 231

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 4:01:44 PM

AVG; DISH ANTENNA; TX HIGH 5840 MHz BW-10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

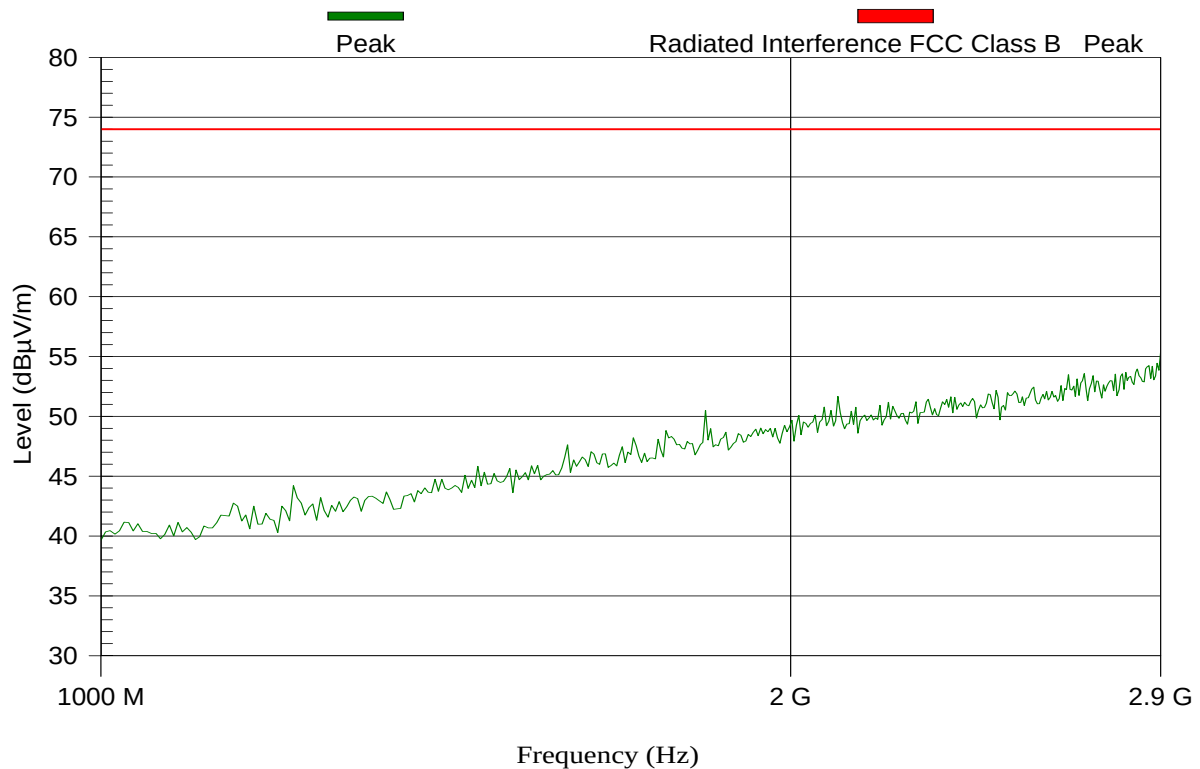
Test Results Plot No 232

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 3:48:55 PM

Peak; DISH ANTENNA; TX HIGH 5840 MHz BW-10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

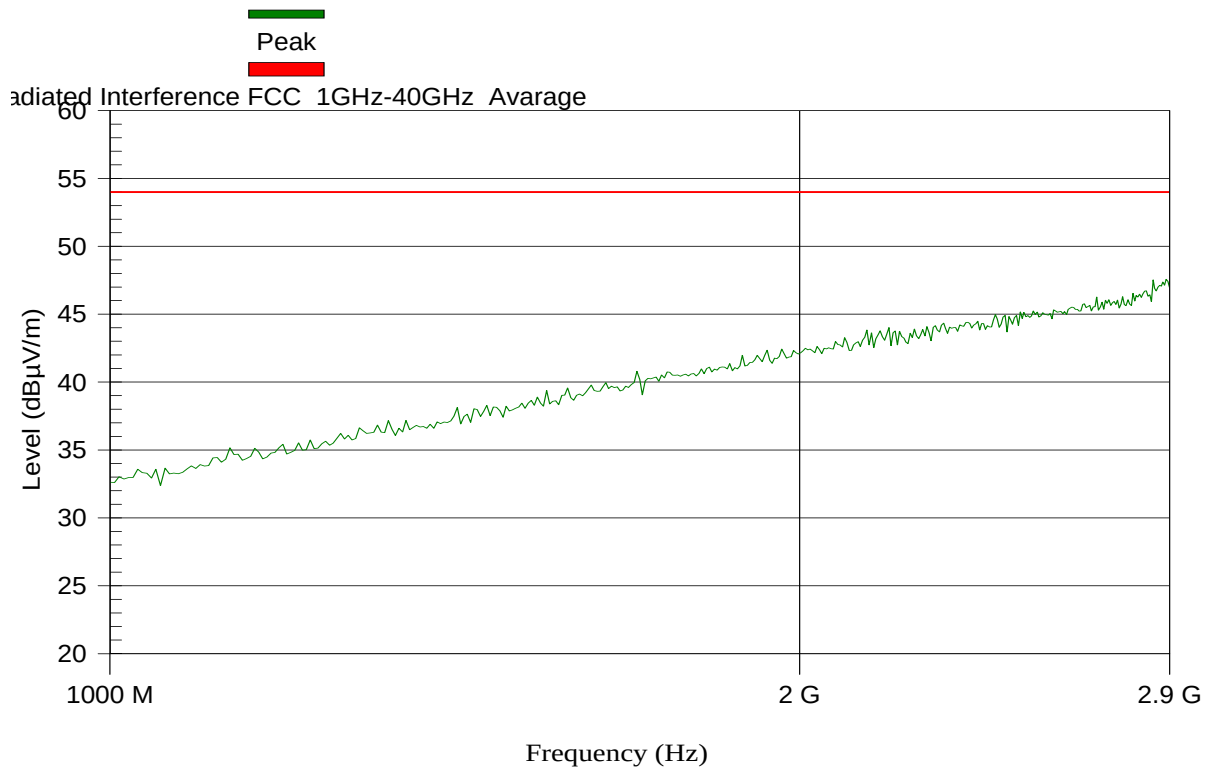
Test Results Plot No 233

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 4:32:44 PM

AVG; DISH ANTENNA; TX LOW 5735 MHz BW-20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

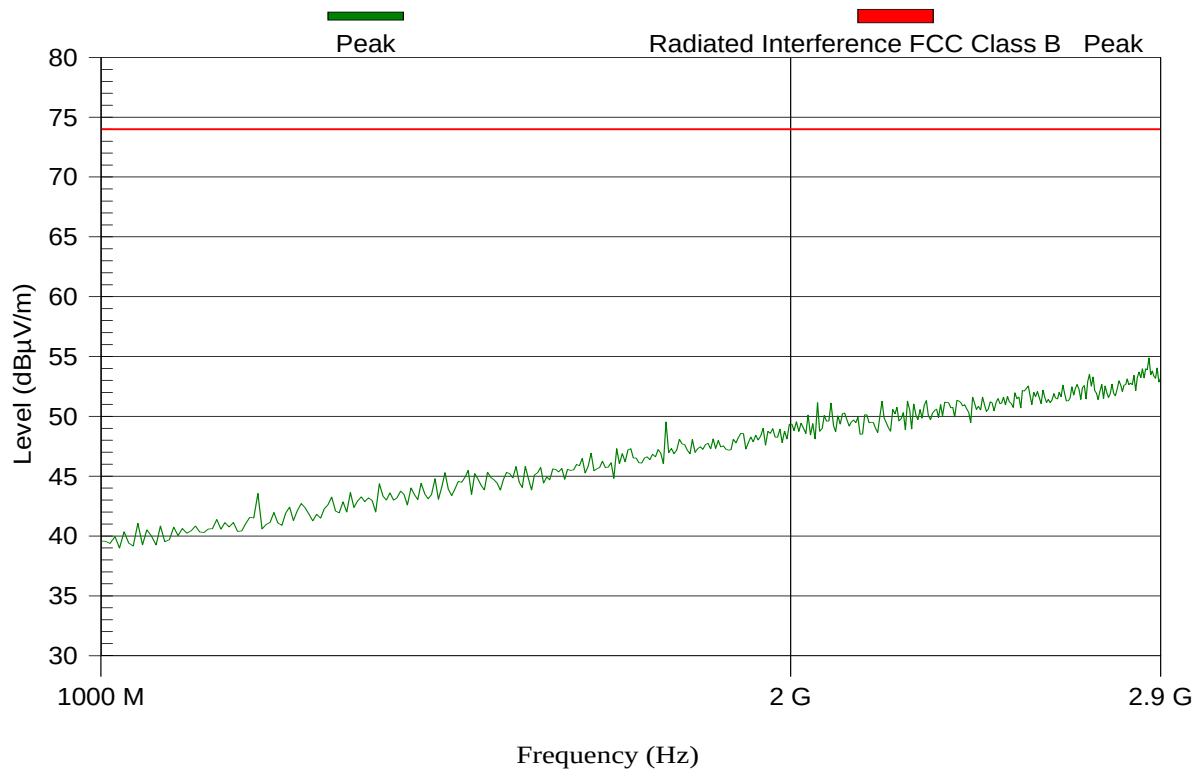
Test Results Plot No 234

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dBμV
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 4:40:29 PM

Peak; DISH ANTENNA; TX LOW 5735 MHz BW-20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

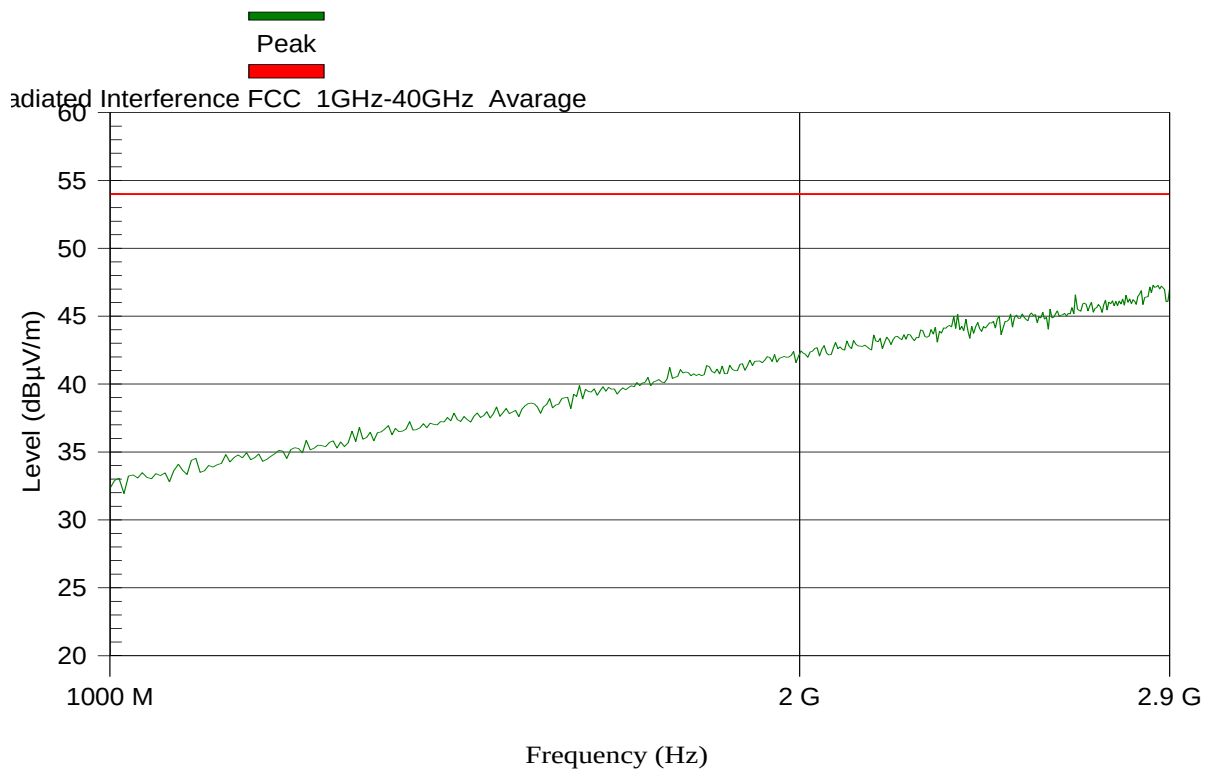
Test Results Plot No 235

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 4:20:05 PM

AVG; DISH ANTENNA; TX MID 5790 MHz BW-20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

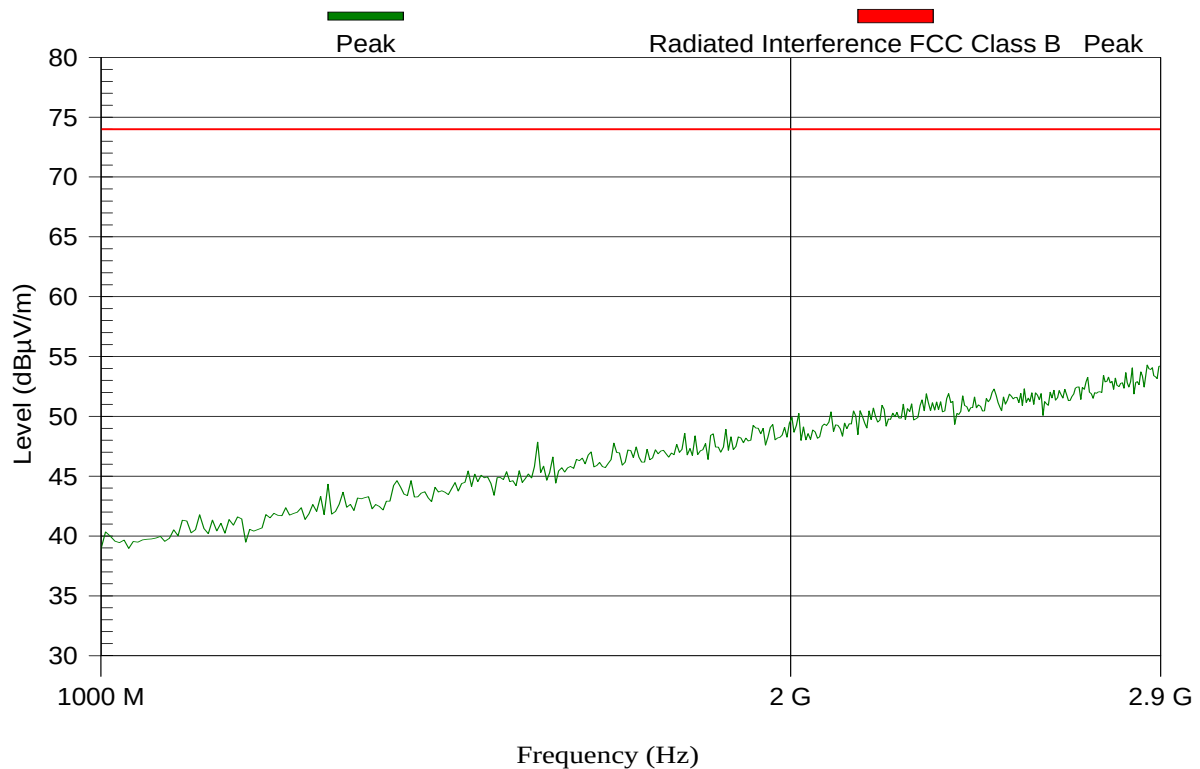
Test Results Plot No 236

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 4:27:00 PM

PEAK; DISH ANTENNA; TX MID 5790 MHz BW-20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

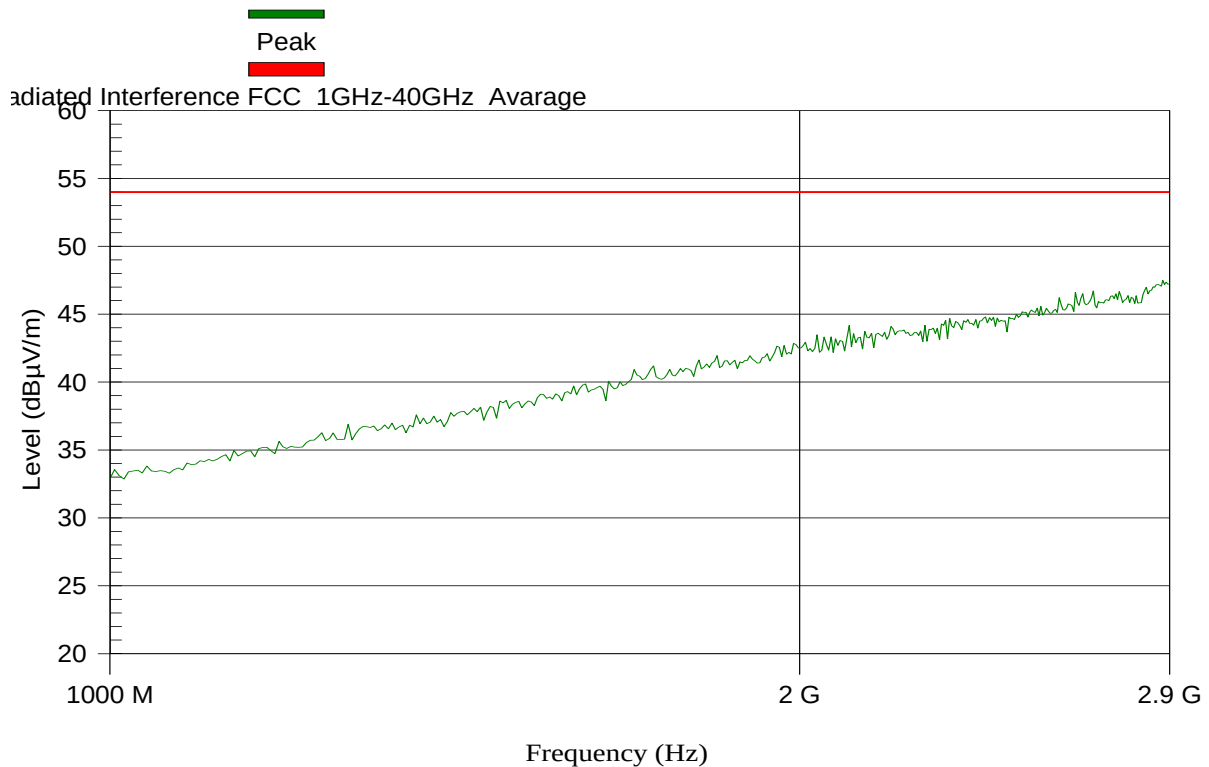
Test Results Plot No 237

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 4:07:05 PM

AVG; DISH ANTENNA; TX HIGH 5840 MHz BW-20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

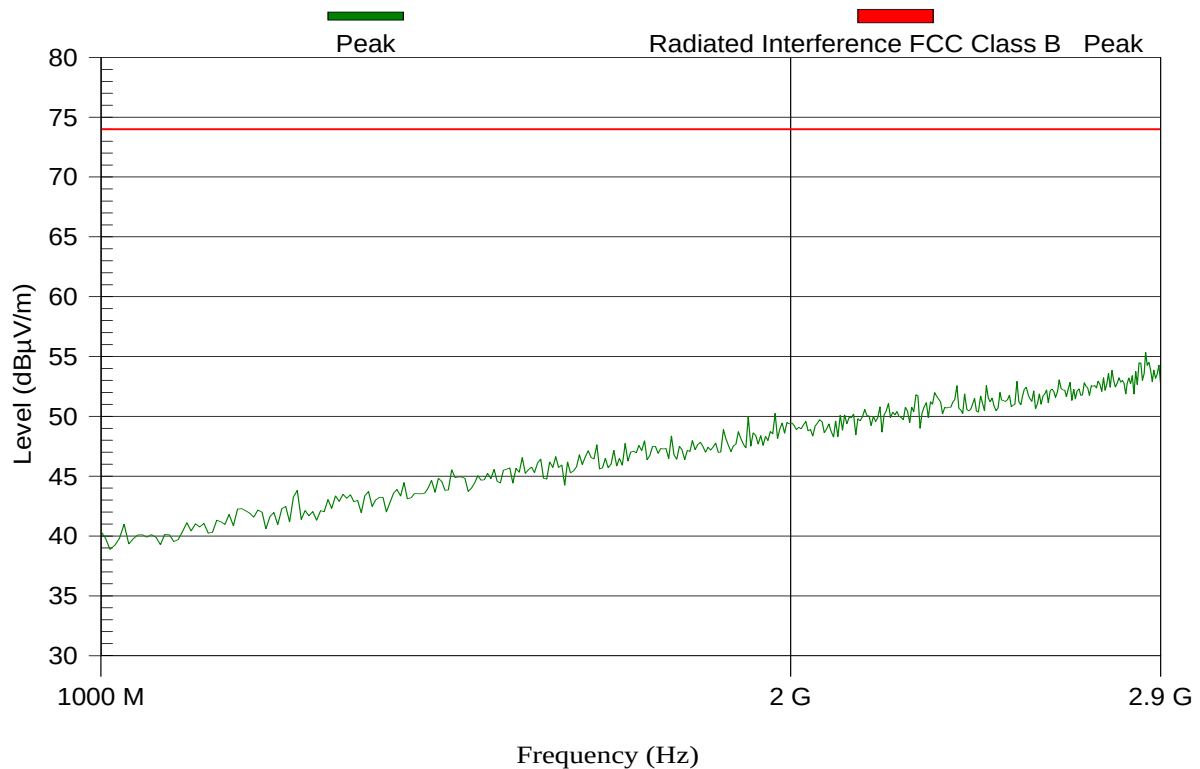
Test Results Plot No 238

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 4:13:37 PM

PEAK; DISH ANTENNA; TX HIGH 5840 MHz BW-20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

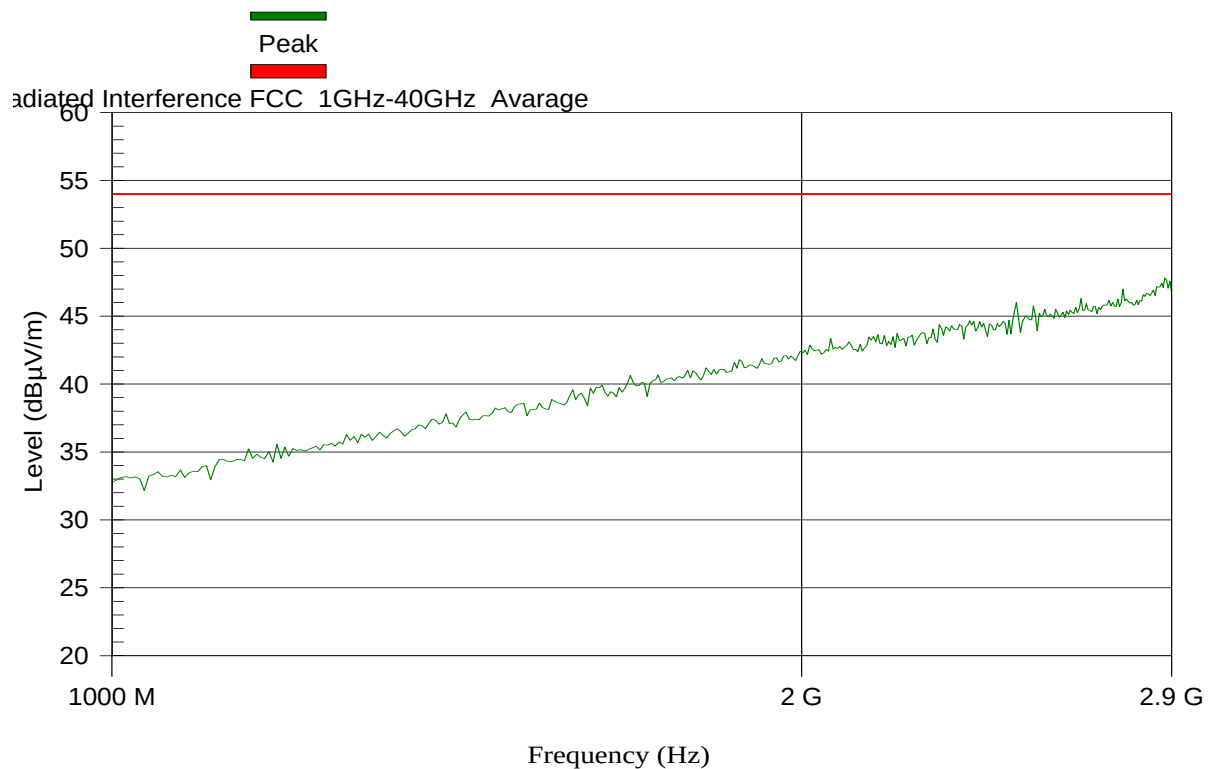
Test Results Plot No 239

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 4:46:01 PM

AVG; DISH ANTENNA; TX LOW 5745 MHz BW-40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

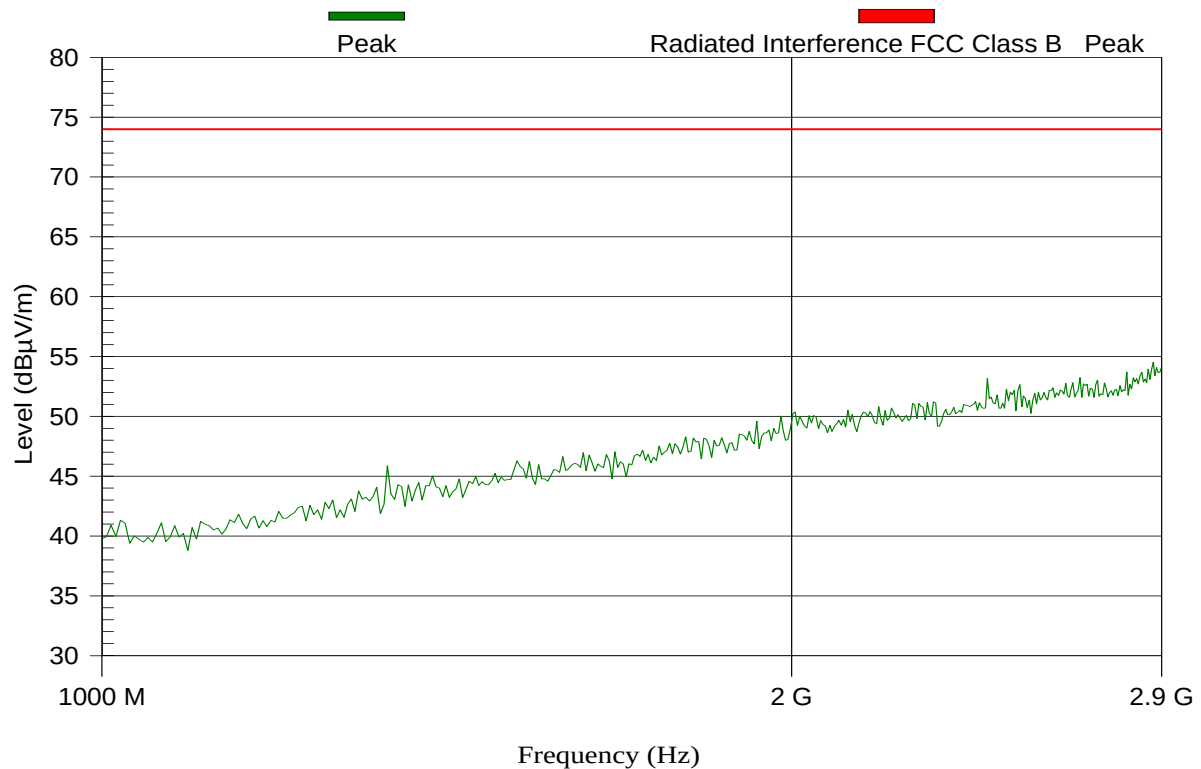
Test Results Plot No 240

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 4:54:18 PM

Peak; DISH ANTENNA; TX LOW 5745 MHz BW-40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

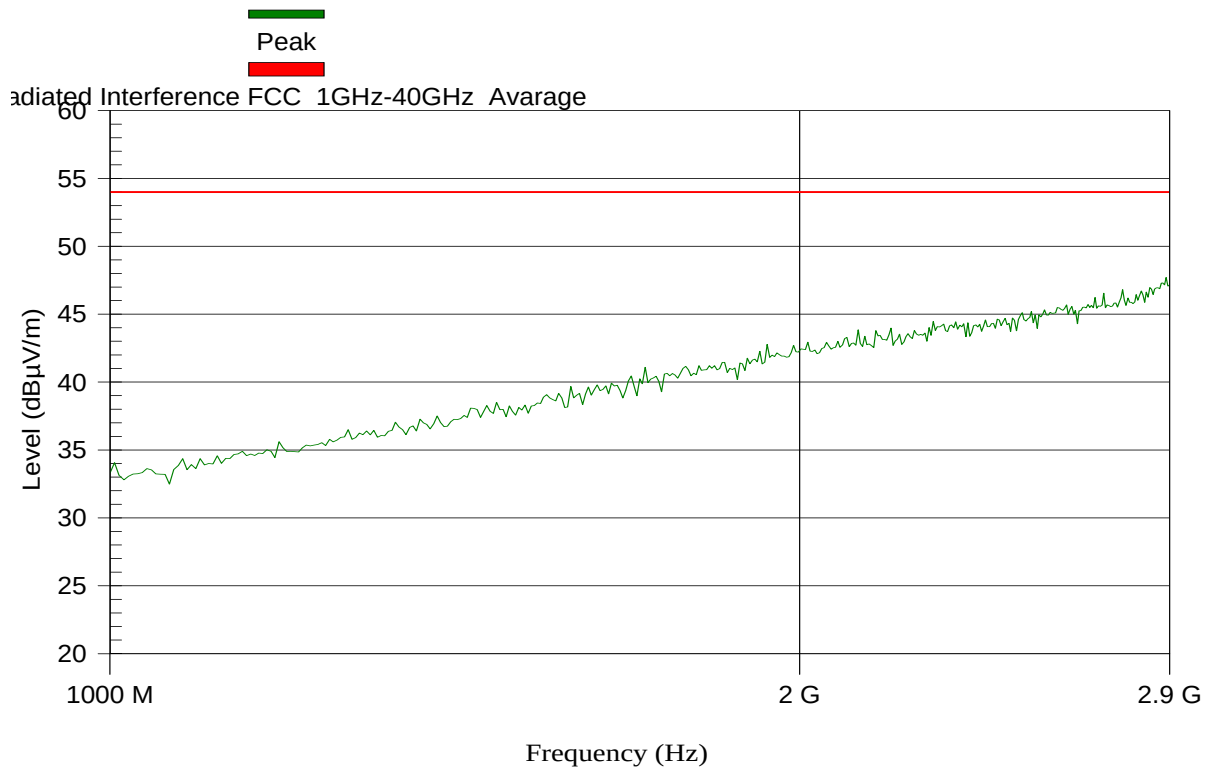
Test Results Plot No 241

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 4:59:40 PM

AVG; DISH ANTENNA; TX MID 5790 MHz BW-40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

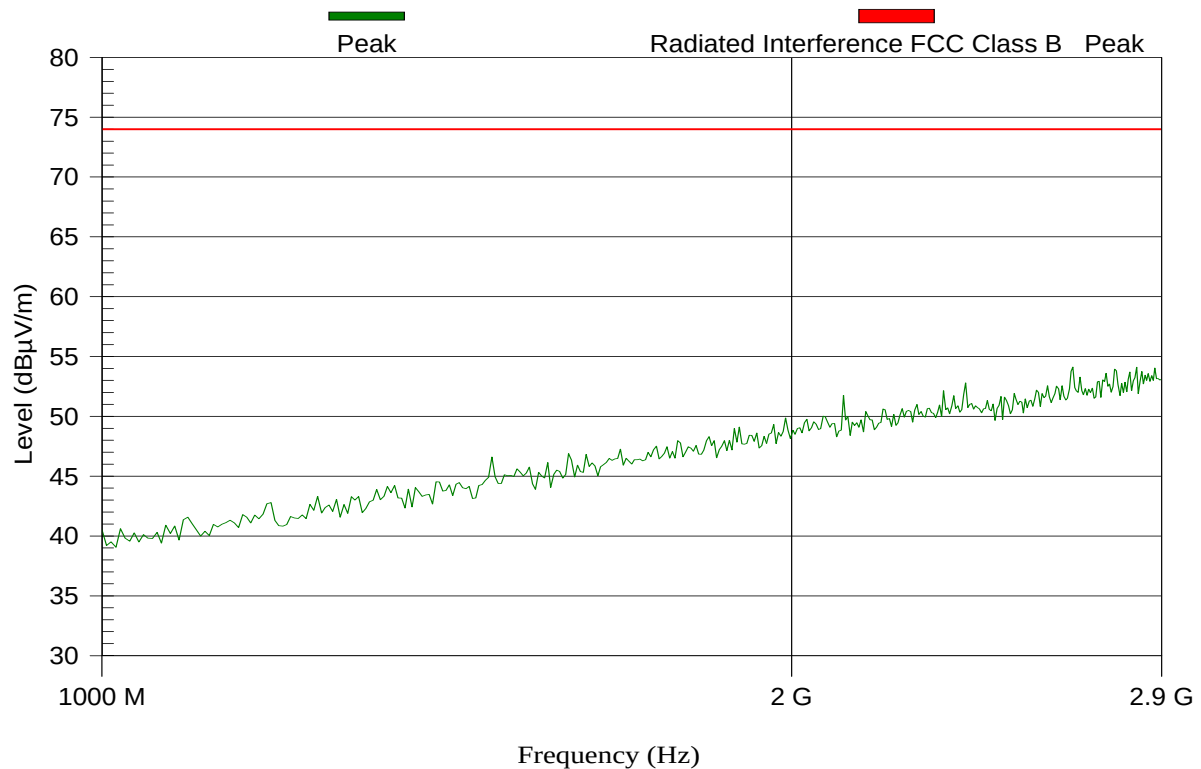
Test Results Plot No 242

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 5:06:52 PM

PEAK; DISH ANTENNA; TX MID 5790 MHz BW-40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

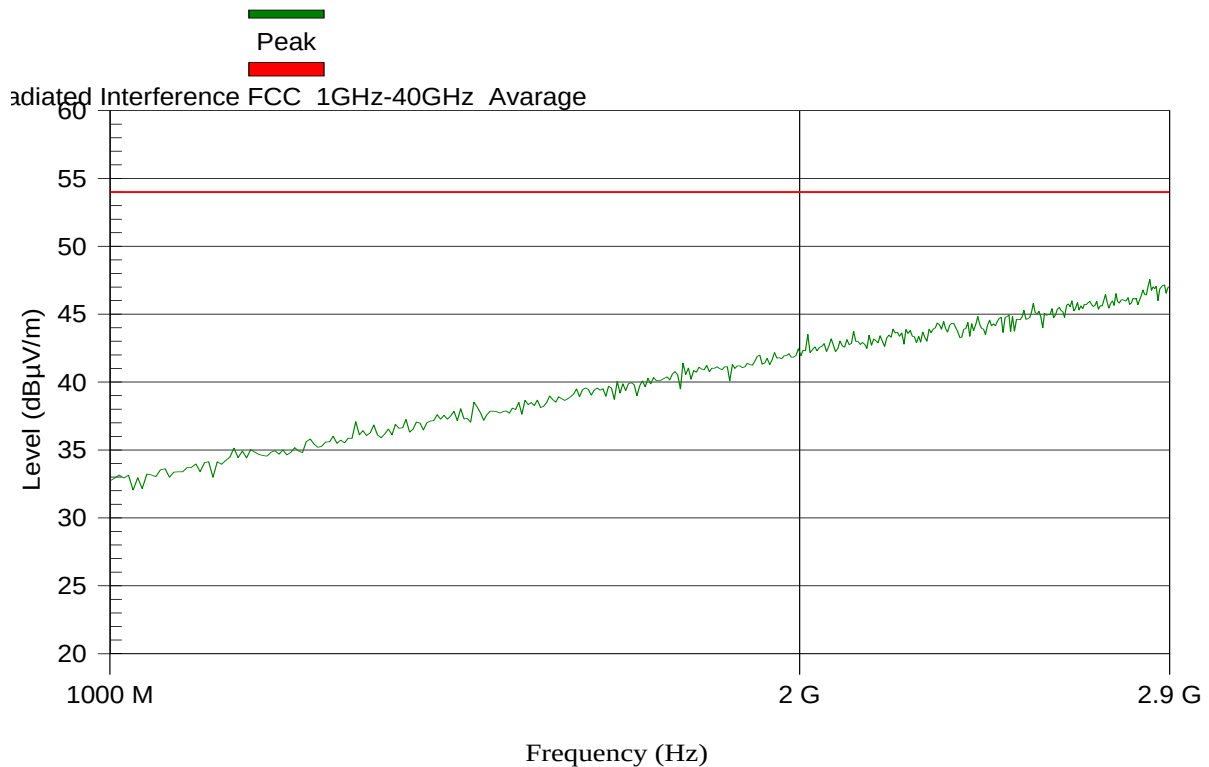
Test Results Plot No 243

1-2.9 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 82.87 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 5:12:30 PM

AVG; DISH ANTENNA; TX HIGH 5830 MHz BW-40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

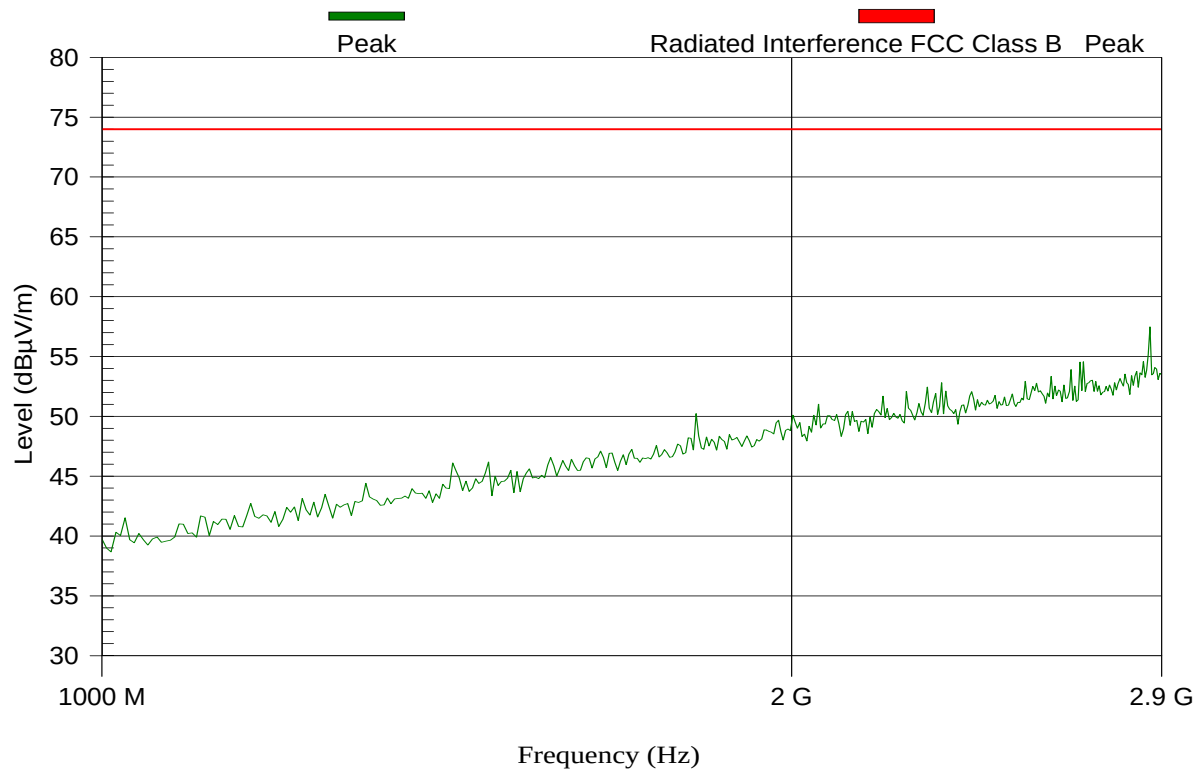
Test Results Plot No 244

1-2.9 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dBμV
Date of Test:	24.01.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Sunday, January 24, 2010 5:19:14 PM

PEAK; DISH ANTENNA; TX HIGH 5830 MHz BW-40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

5.10.5. 2.9 GHz-5.460 GHz-Dish

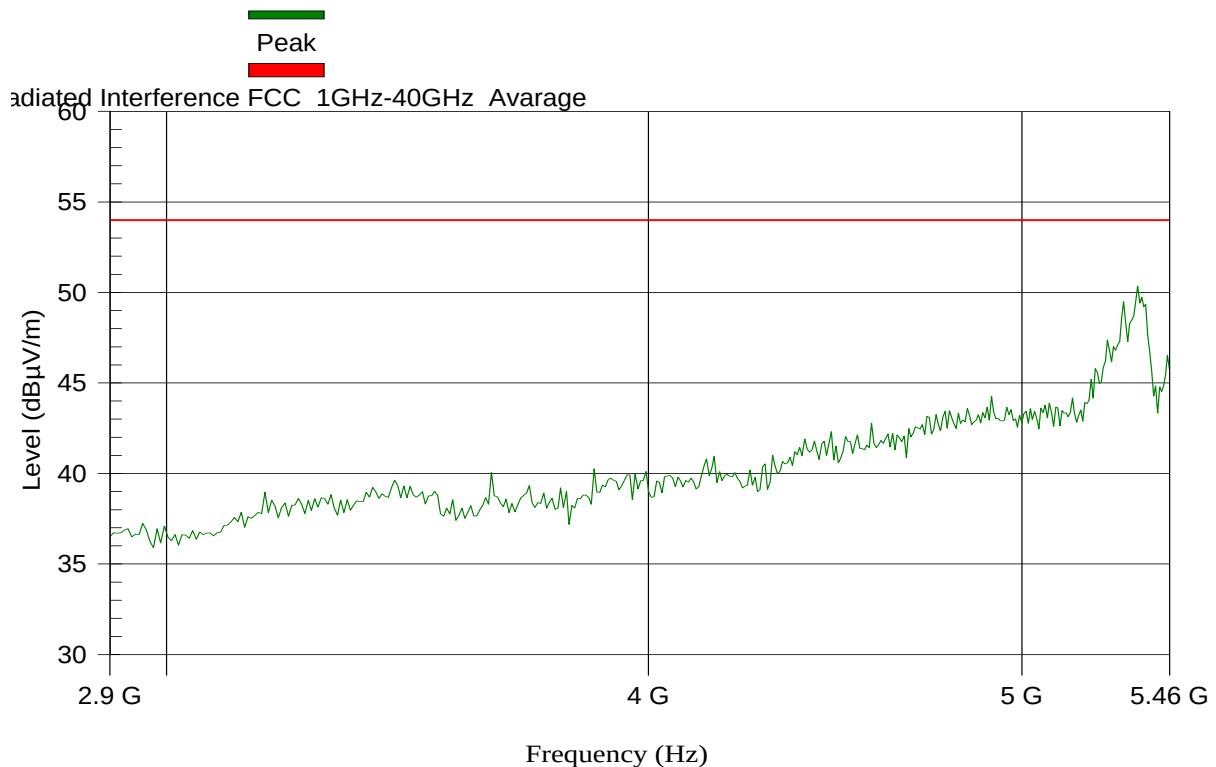
Test Results Plot No 245

2.9-5.460GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 111.65 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 10:27:03 AM

AVG; DISH ANTENNA; TX LOW 5730 MHz BW-5 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5357.6	50.4	54		0	1.6	H

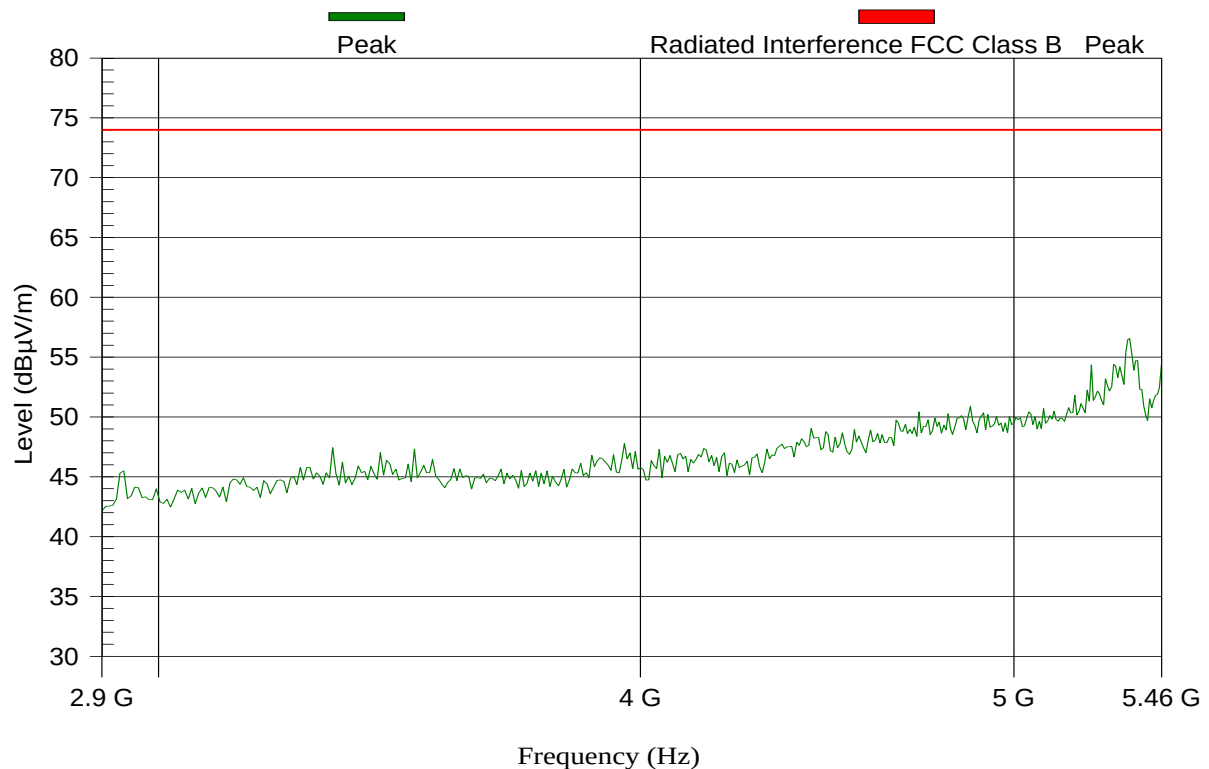
Test Results Plot No 246

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dBμV
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 10:34:37 AM

Peak; DISH ANTENNA; TX LOW 5730 MHz BW-5 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

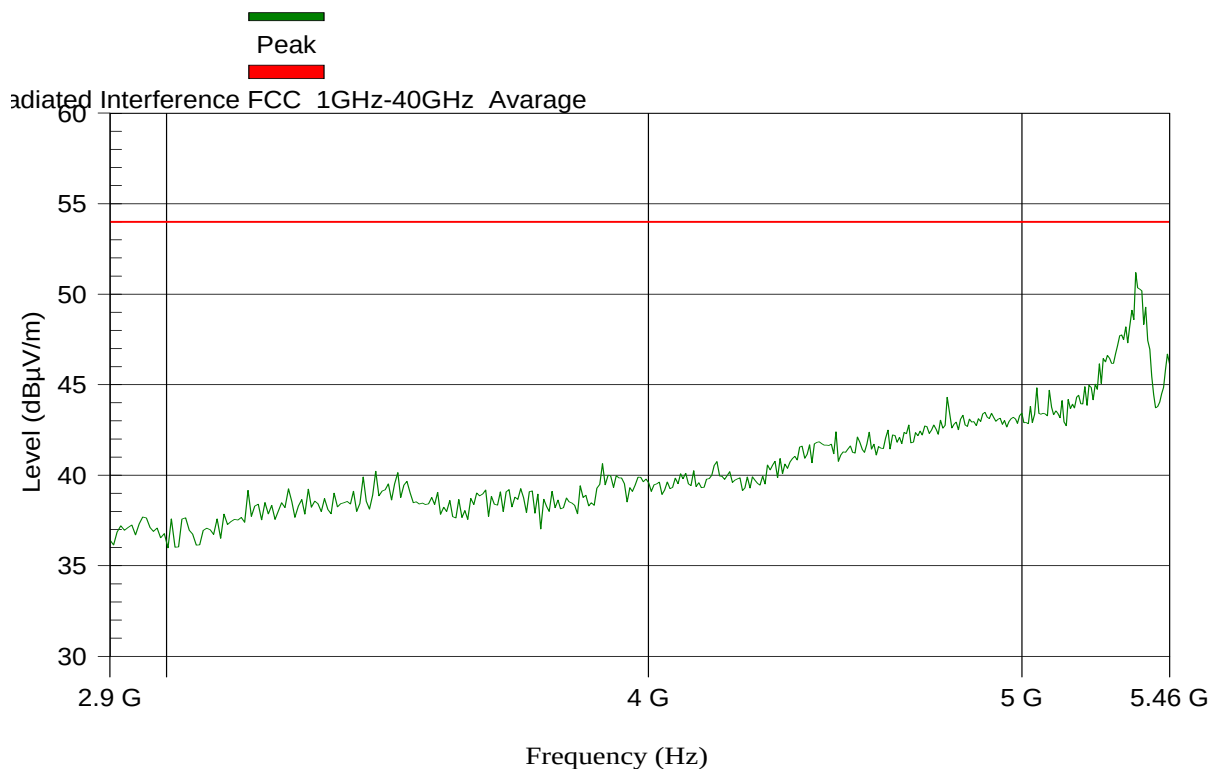
Test Results Plot No 247

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 111.65 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 11:06:04 AM

AVG; DISH ANTENNA; TX MID 5790 MHz BW-5 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5351.2	51.2	54		0	1.6	H

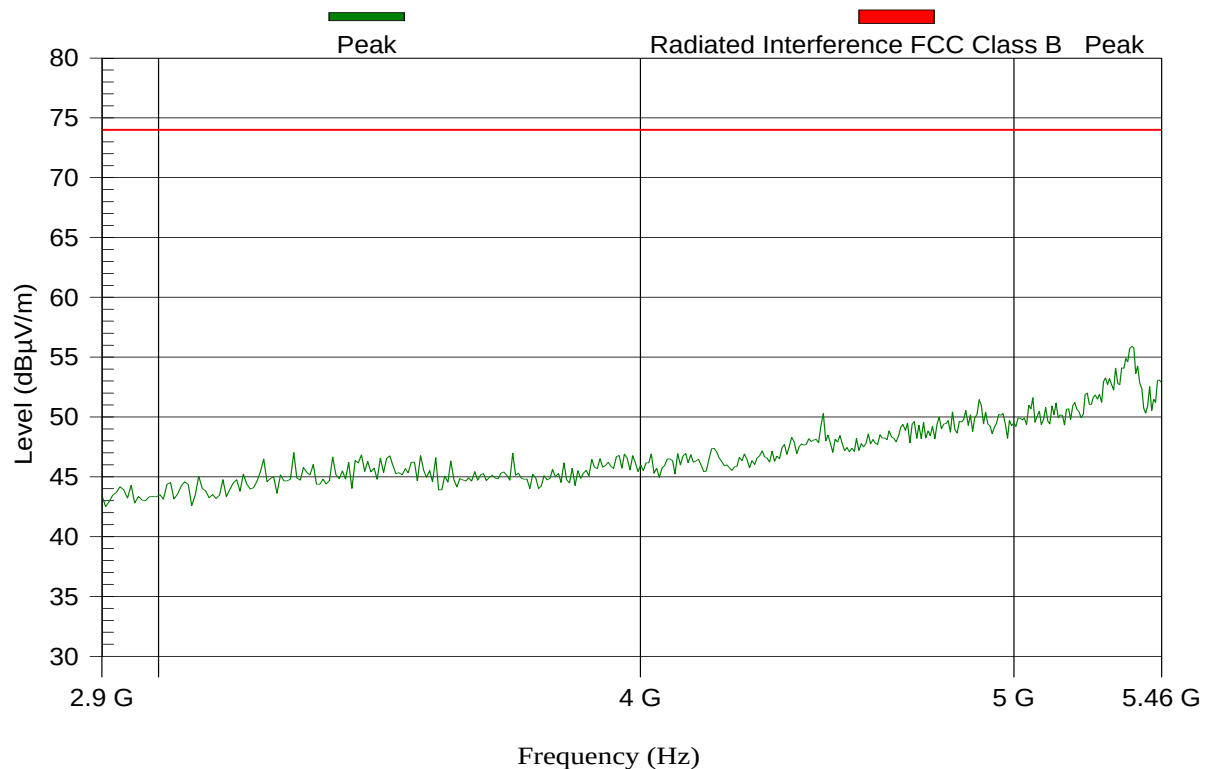
Test Results Plot No 248

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dBμV
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 11:00:10 AM

Peak; DISH ANTENNA; TX MID 5790 MHz BW-5 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

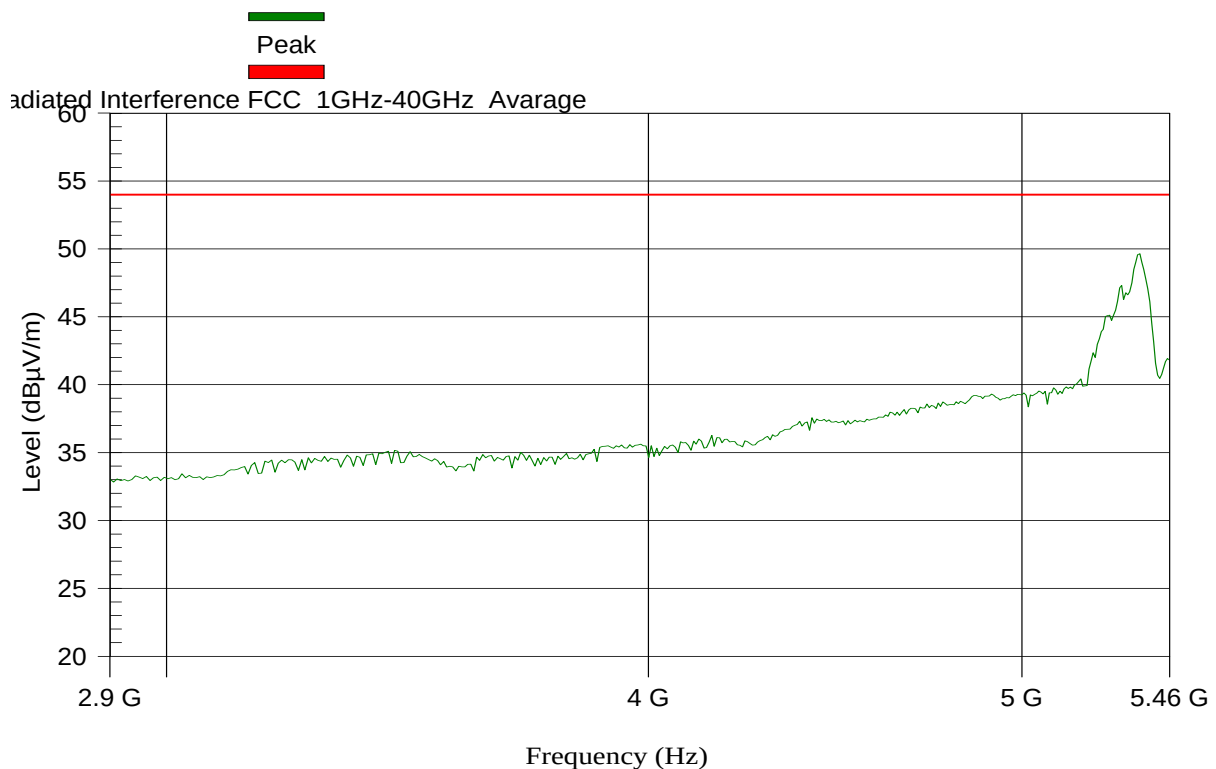
Test Results Plot No 249

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 3.34 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 11:33:39 AM

AVG; DISH ANTENNA; TX HIGH 5845 MHz BW-5 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5364	49.6	54		0	1.6	H

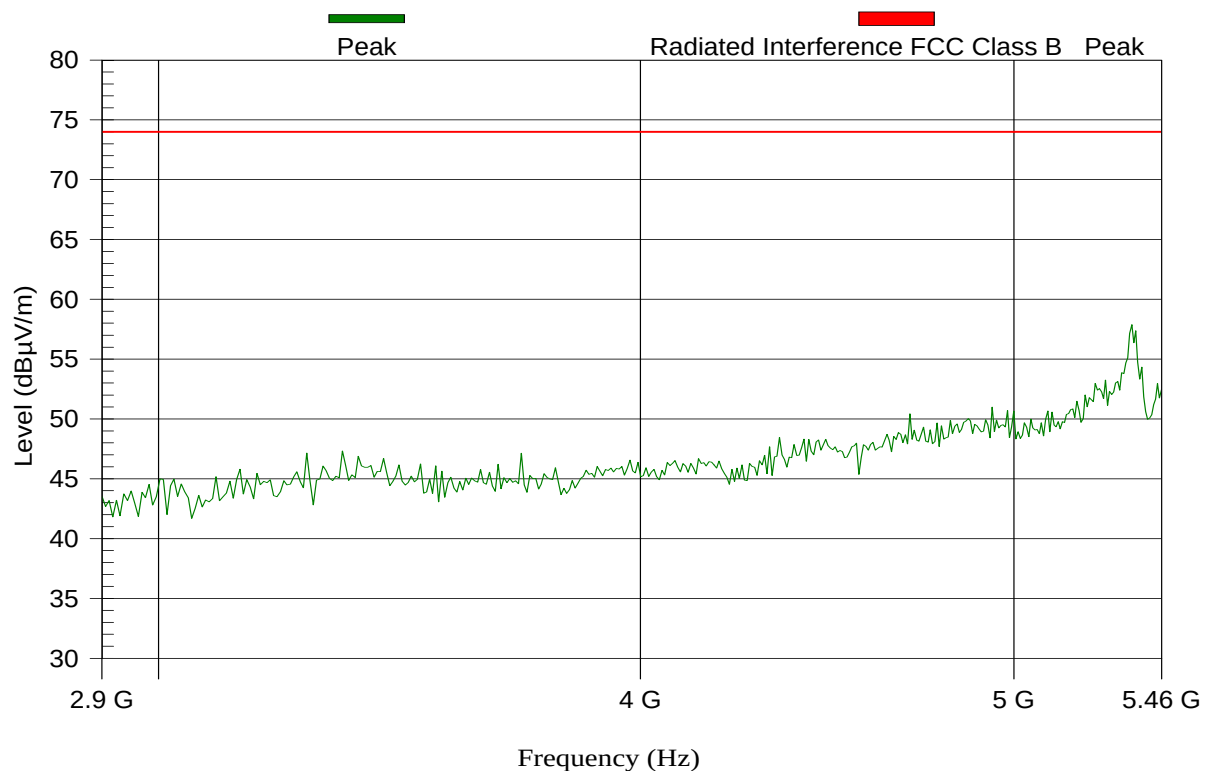
Test Results Plot No 250

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 11:10:04 AM

Peak; DISH ANTENNA; TX HIGH 5845 MHz BW-5 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

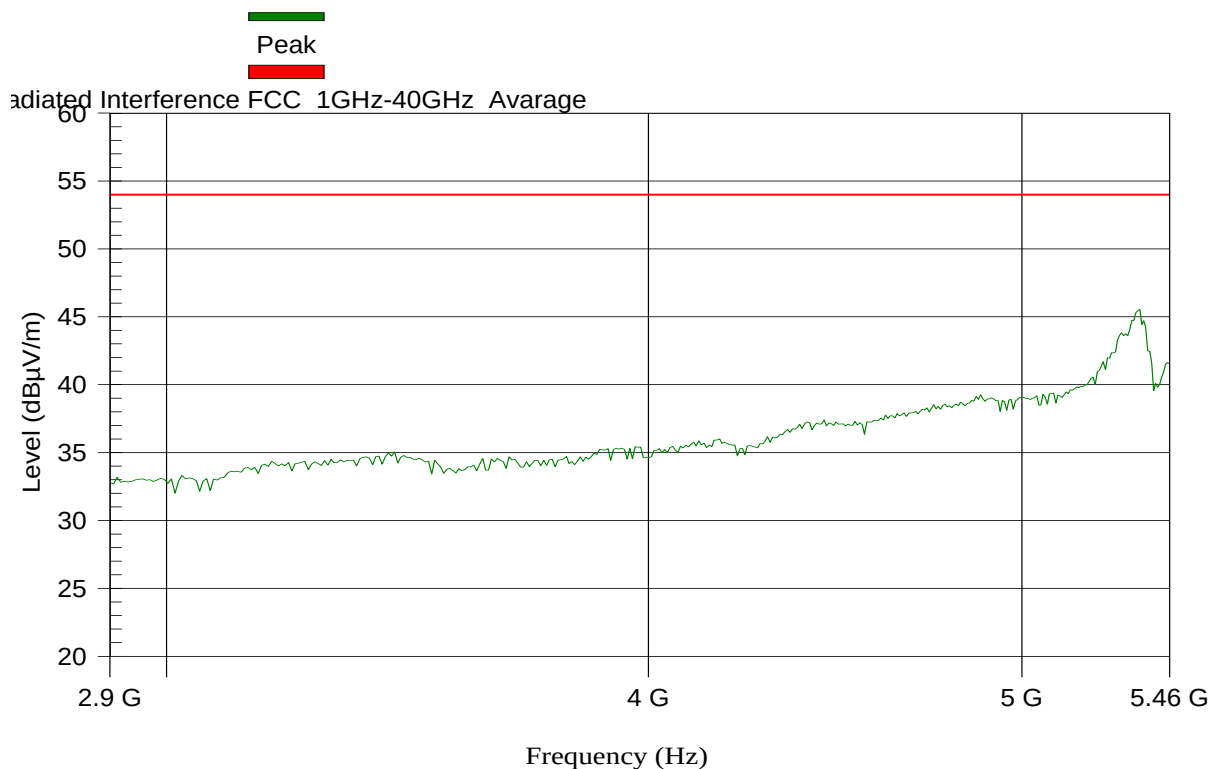
Test Results Plot No 251

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 3.34 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 12:09:24 PM

AVG; DISH ANTENNA; TX LOW 5735 MHz BW-10 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

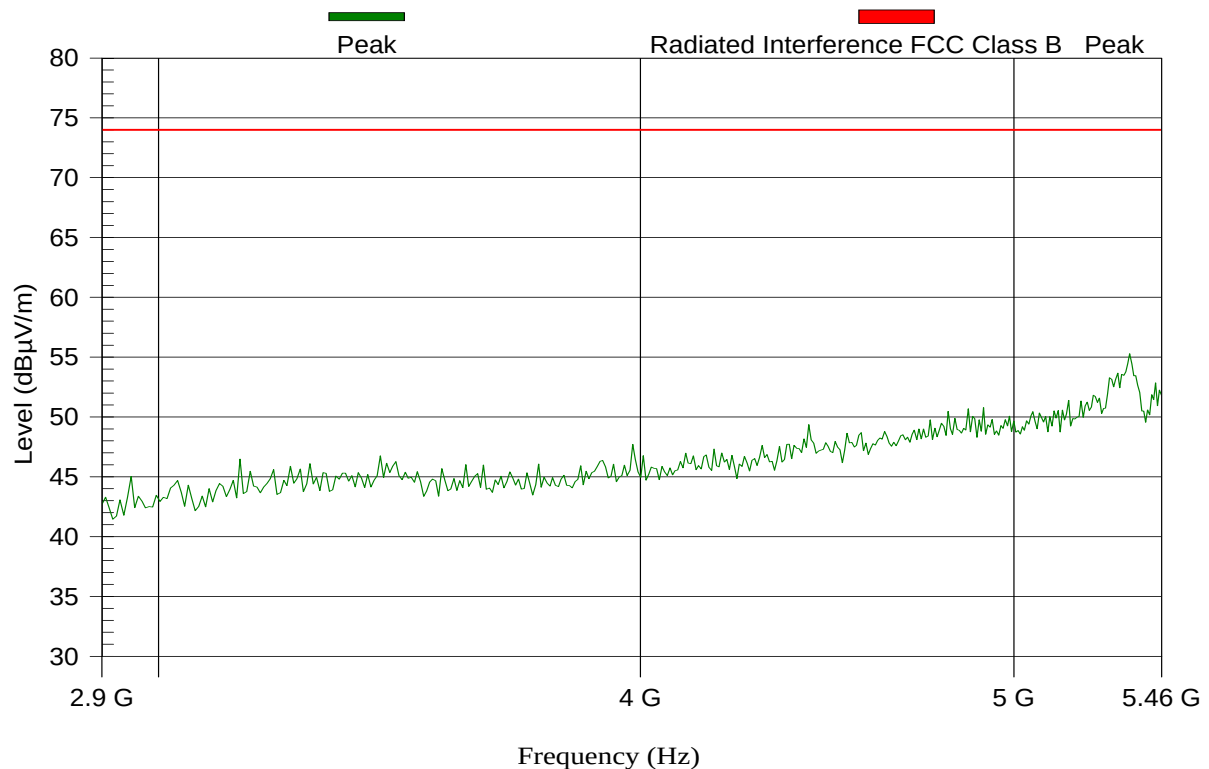
Test Results Plot No 252

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 12:03:52 PM

PEAK; DISH ANTENNA; TX LOW 5735 MHz BW-10 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

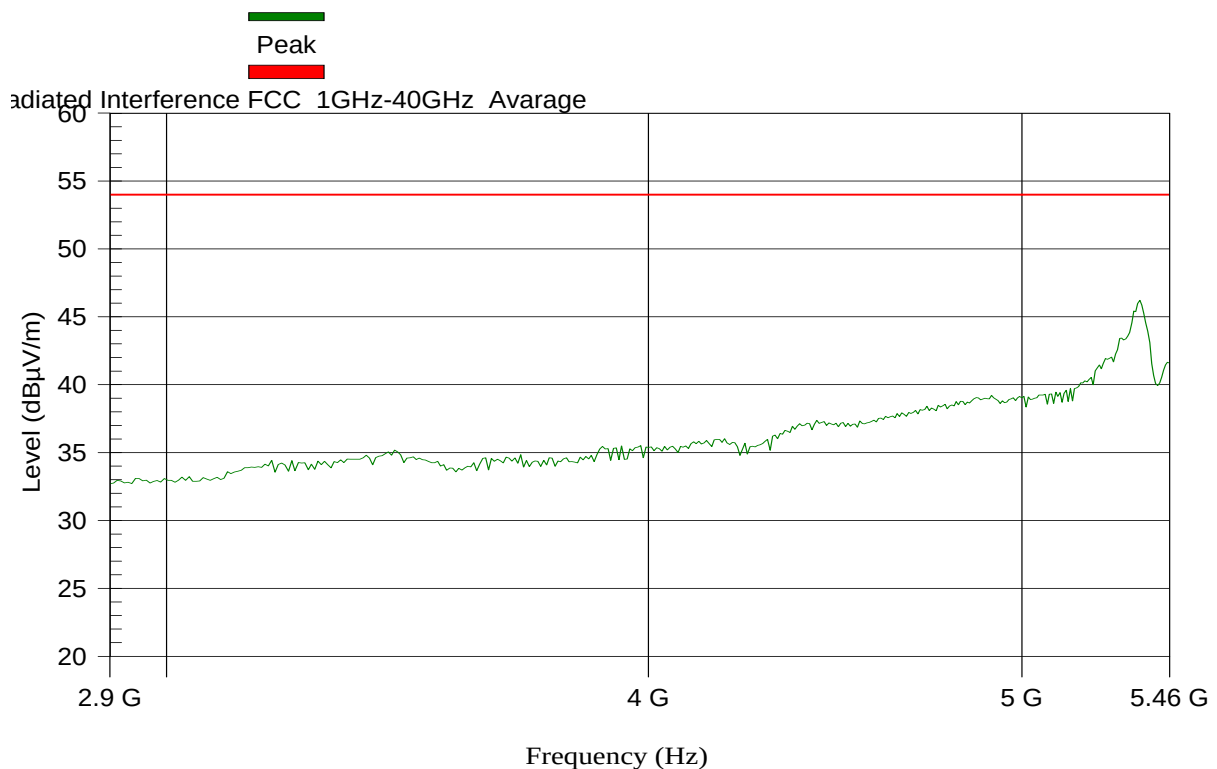
Test Results Plot No 253

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 3.34 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 11:55:37 AM

AVG; DISH ANTENNA; TX MID 5790 MHz BW-10 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

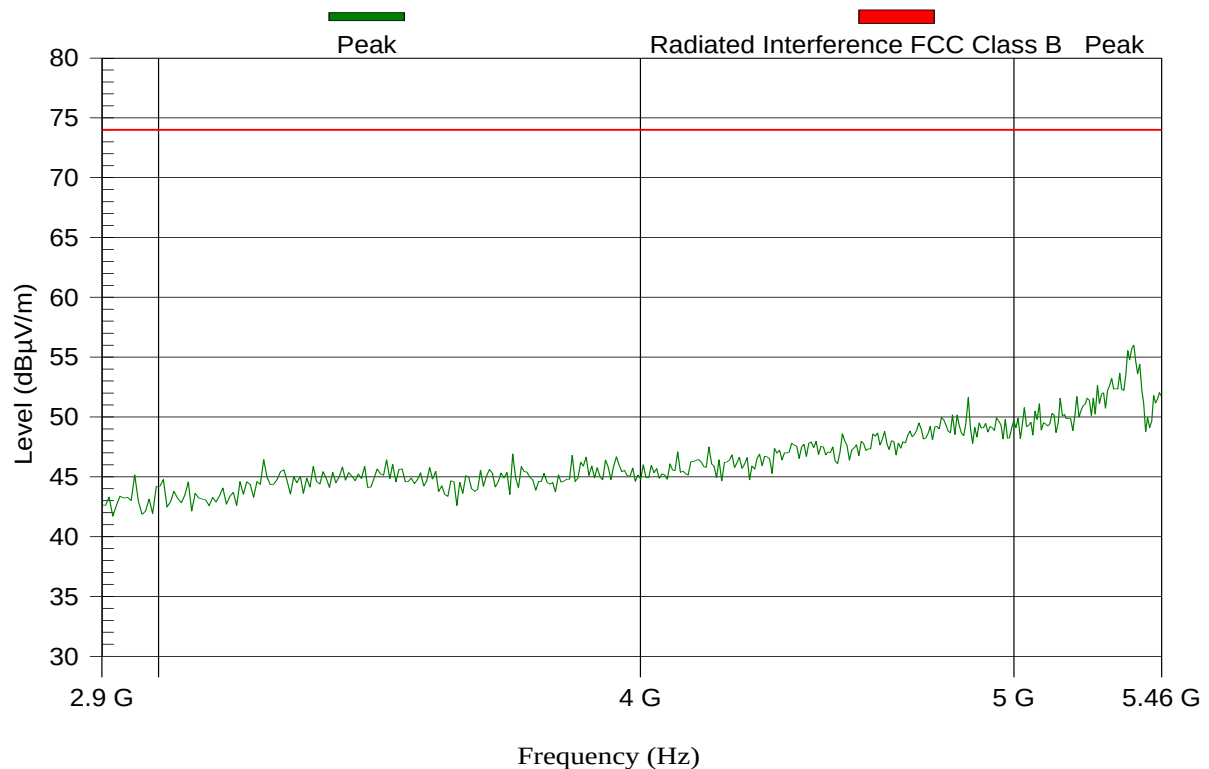
Test Results Plot No 254

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dBμV
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 11:59:57 AM

PEAK; DISH ANTENNA; TX MID 5790 MHz BW-10 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

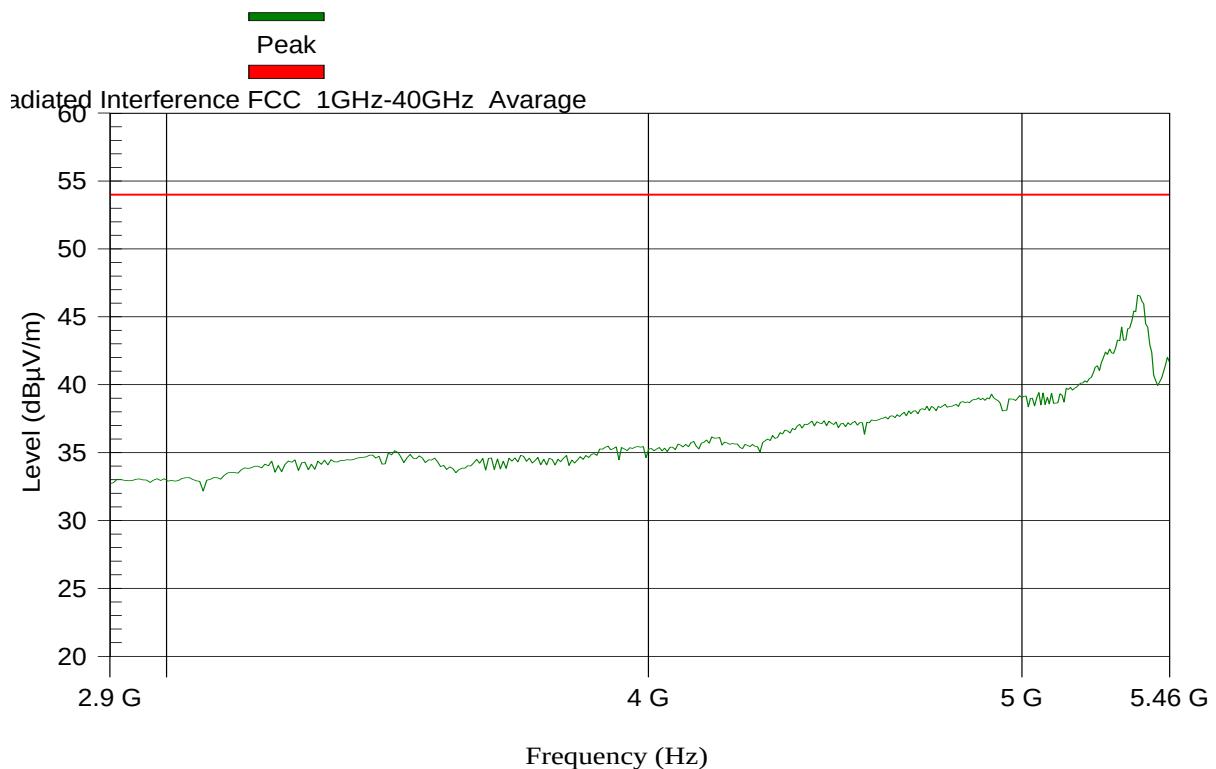
Test Results Plot No 255

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 3.34 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 11:39:36 AM

AVG; DISH ANTENNA; TX HIGH 5840 MHz BW-10 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

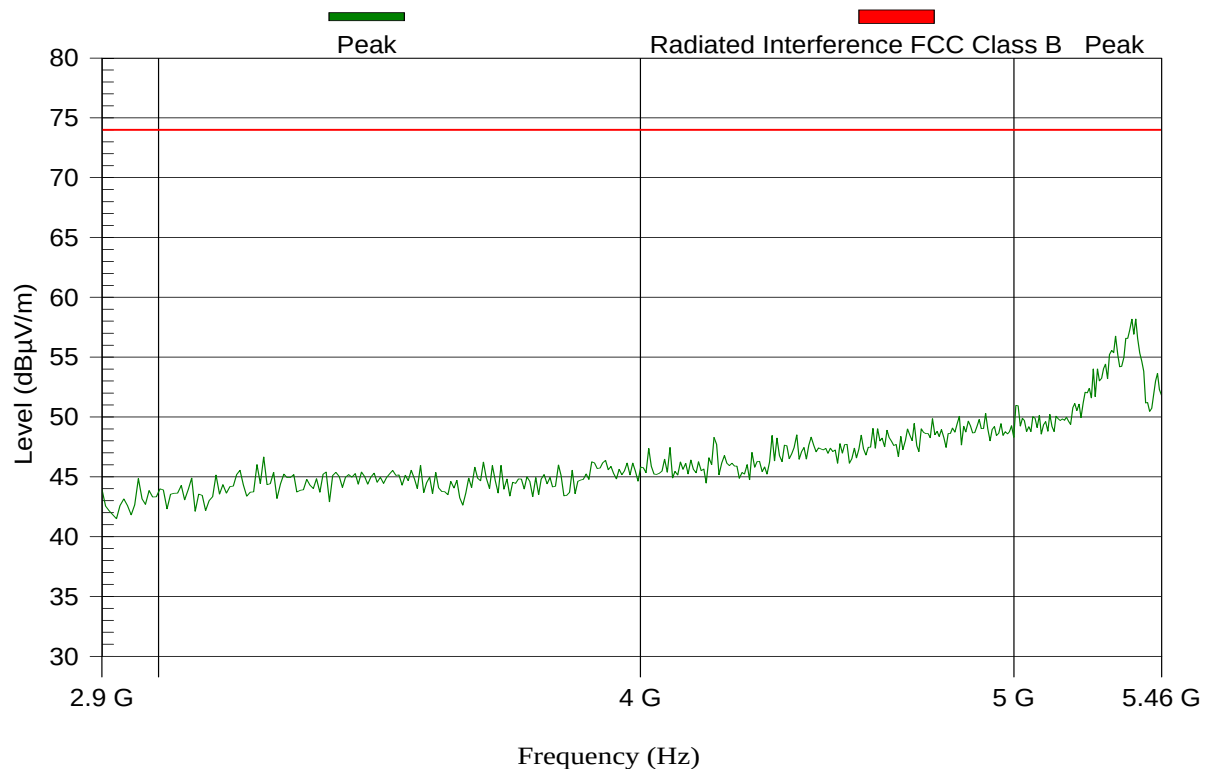
Test Results Plot No 256

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 11:44:16 AM

PEAK; DISH ANTENNA; TX HIGH 5840 MHz BW-10 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

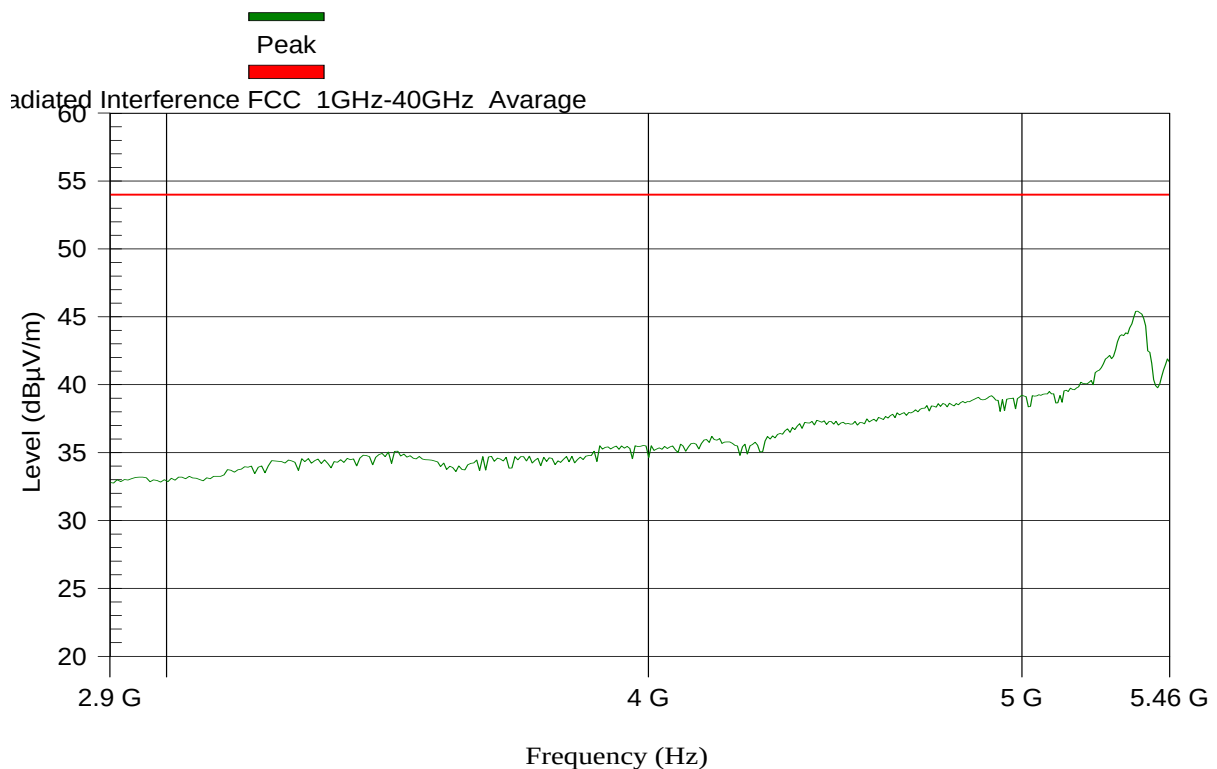
Test Results Plot No 257

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 3.34 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 12:14:47 PM

AVG; DISH ANTENNA; TX LOW 5735 MHz BW-20 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

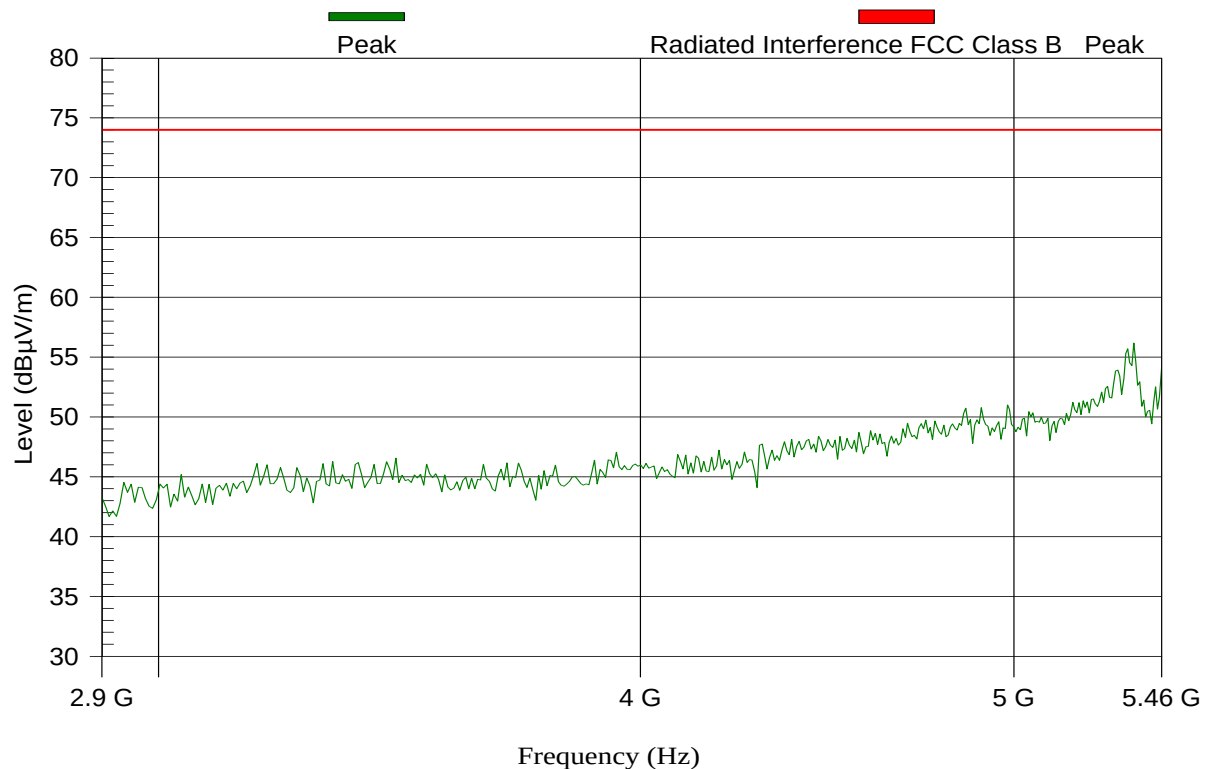
Test Results Plot No 258

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dBμV
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 12:18:30 PM

PEAK; DISH ANTENNA; TX LOW 5735 MHz BW-20 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

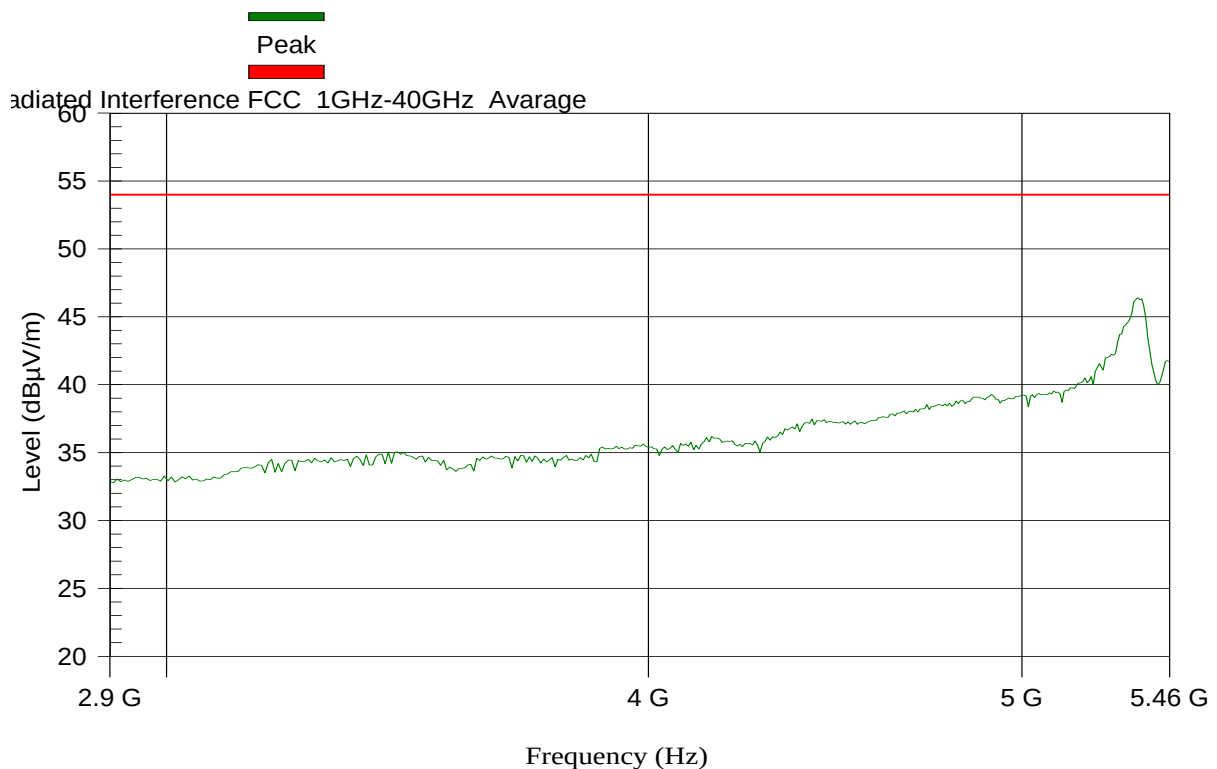
Test Results Plot No 259

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 3.34 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 12:23:43 PM

AVG; DISH ANTENNA; TX MID 5790 MHz BW-20 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

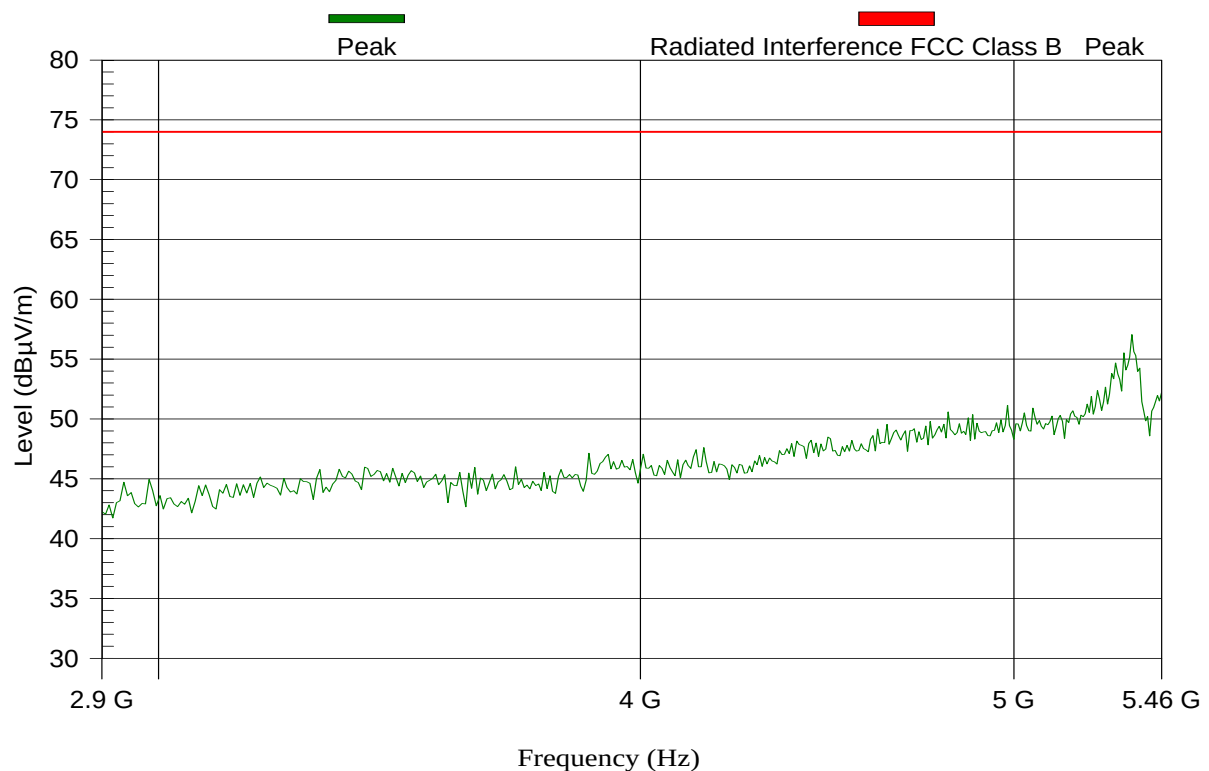
Test Results Plot No 260

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 12:49:54 PM

Peak; DISH ANTENNA; TX MID 5790 MHz BW-20 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

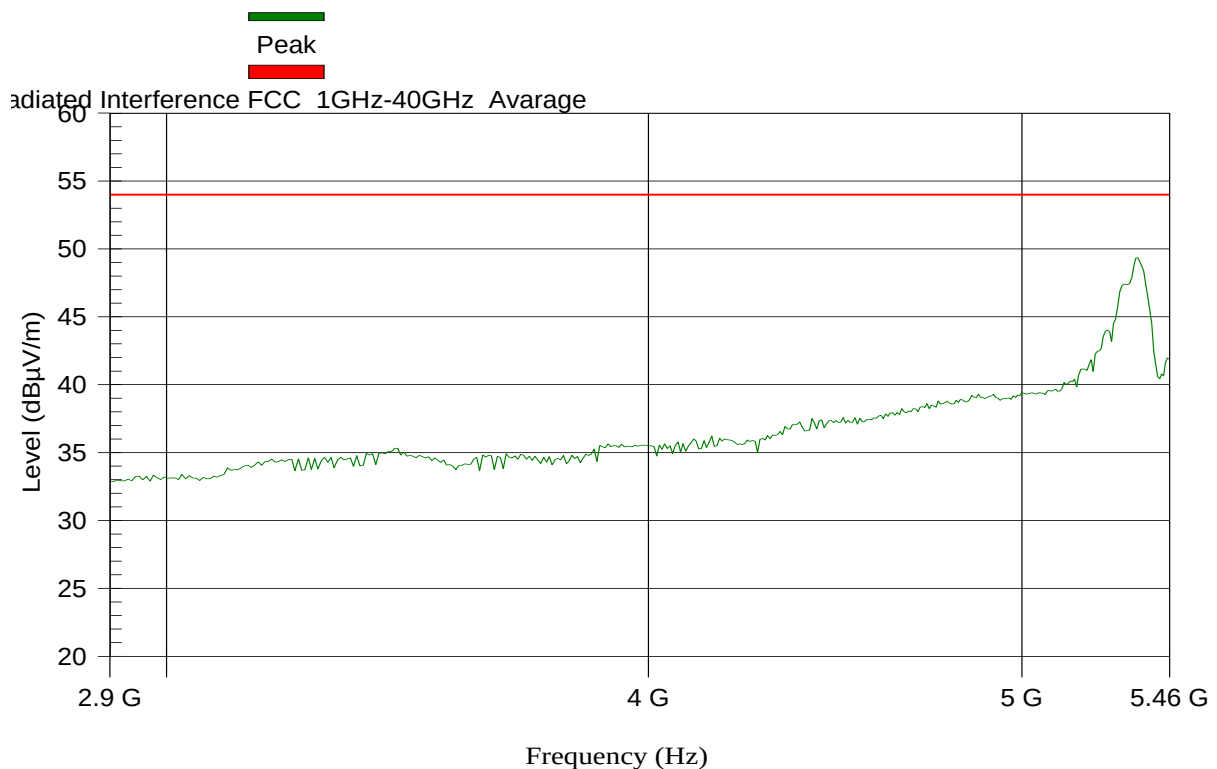
Test Results Plot No 261

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 3.34 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 12:55:18 PM

AVG; DISH ANTENNA; TX HIGH 5840 MHz BW-20 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5357.6	49.4	54		0	1.6	H

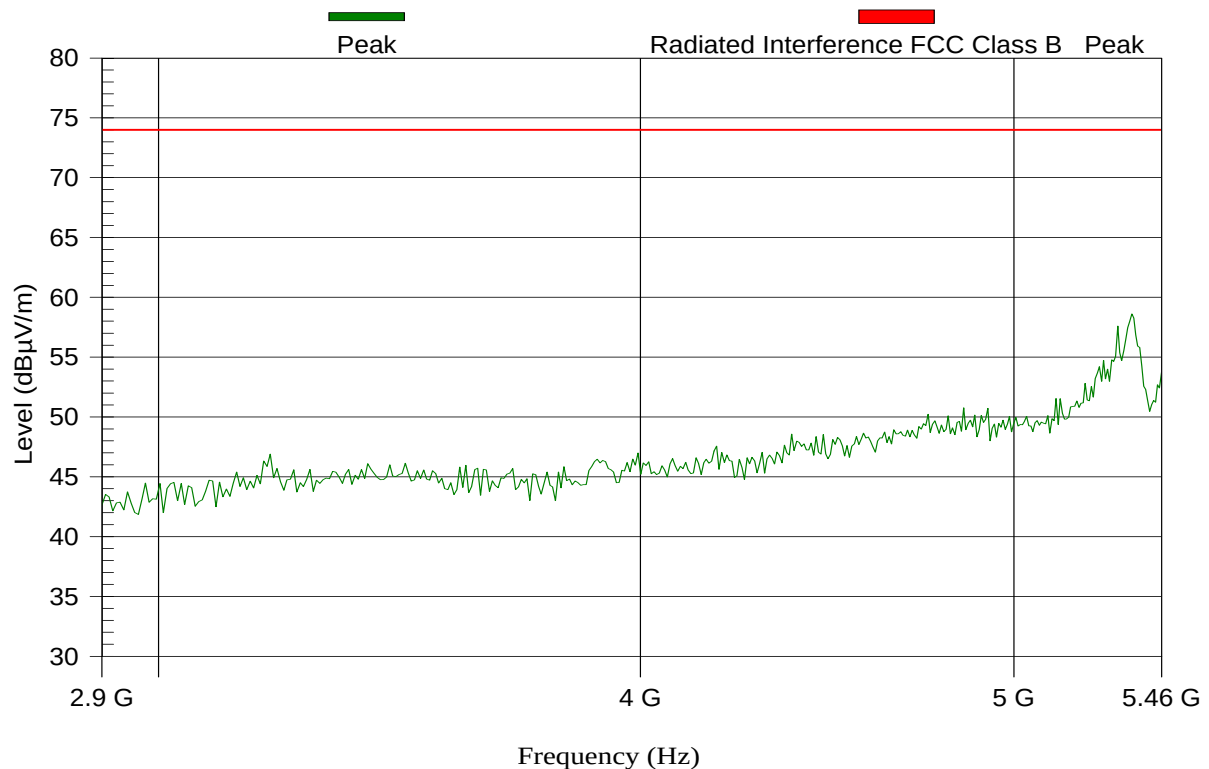
Test Results Plot No 262

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dBμV
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 12:59:24 PM

PEAK; DISH ANTENNA; TX HIGH 5840 MHz BW-20 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

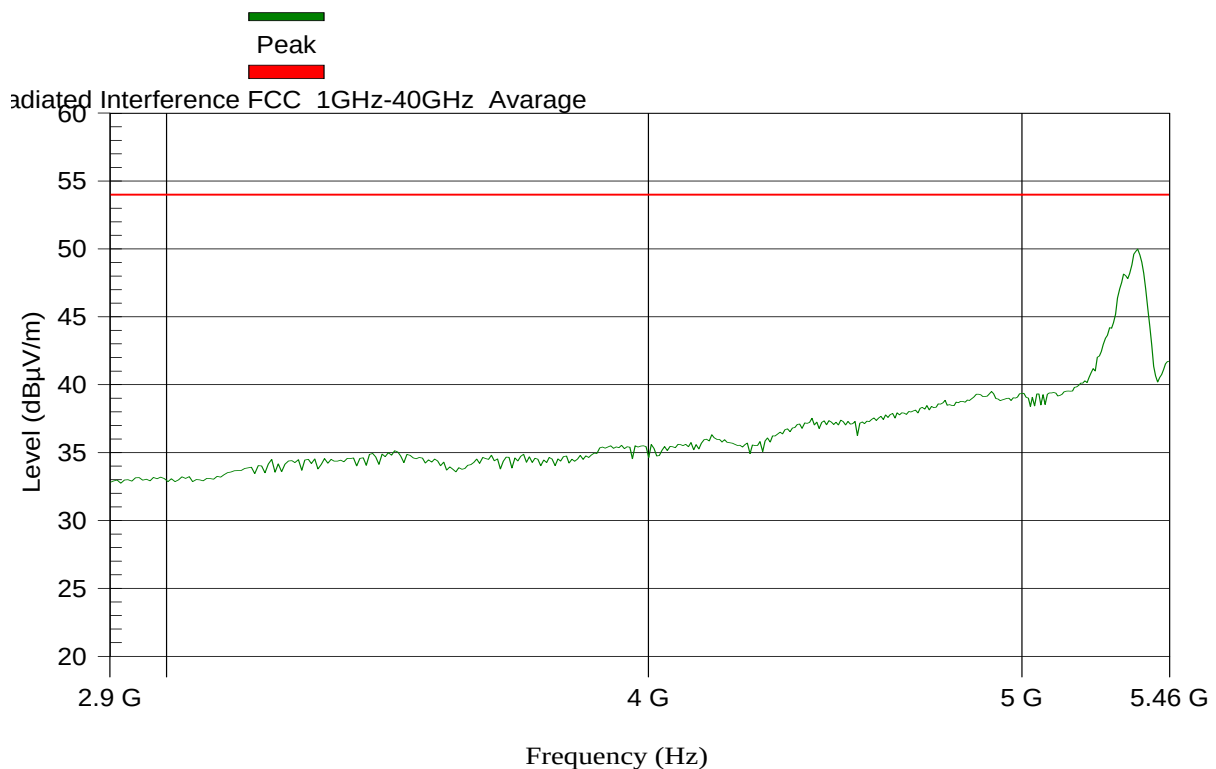
Test Results Plot No 263

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 3.34 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 1:28:32 PM

AVG; DISH ANTENNA; TX LOW 5745 MHz BW-40 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5357.6	50	54		0	1.4	H

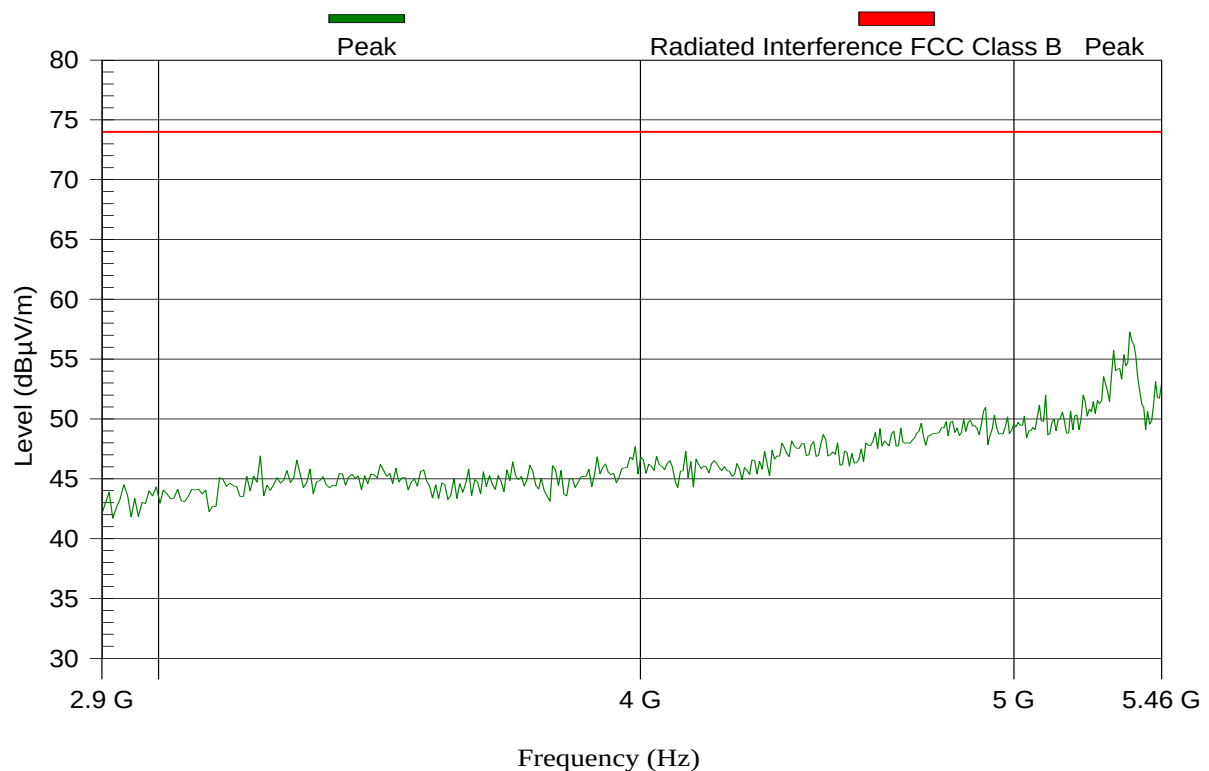
Test Results Plot No 264

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 1:22:29 PM

PEAK; DISH ANTENNA; TX LOW 5745 MHz BW-40 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

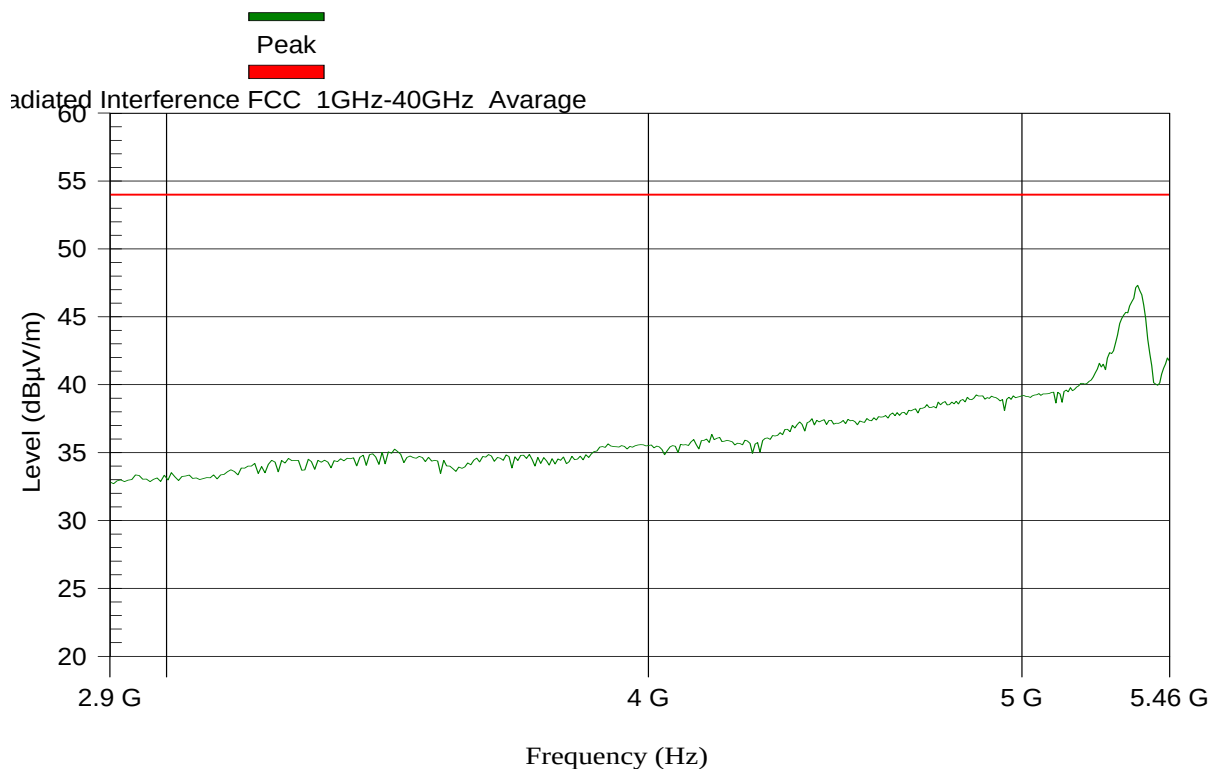
Test Results Plot No 265

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 3.34 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 1:14:17 PM

AVG; DISH ANTENNA; TX MID 5790 MHz BW-40 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

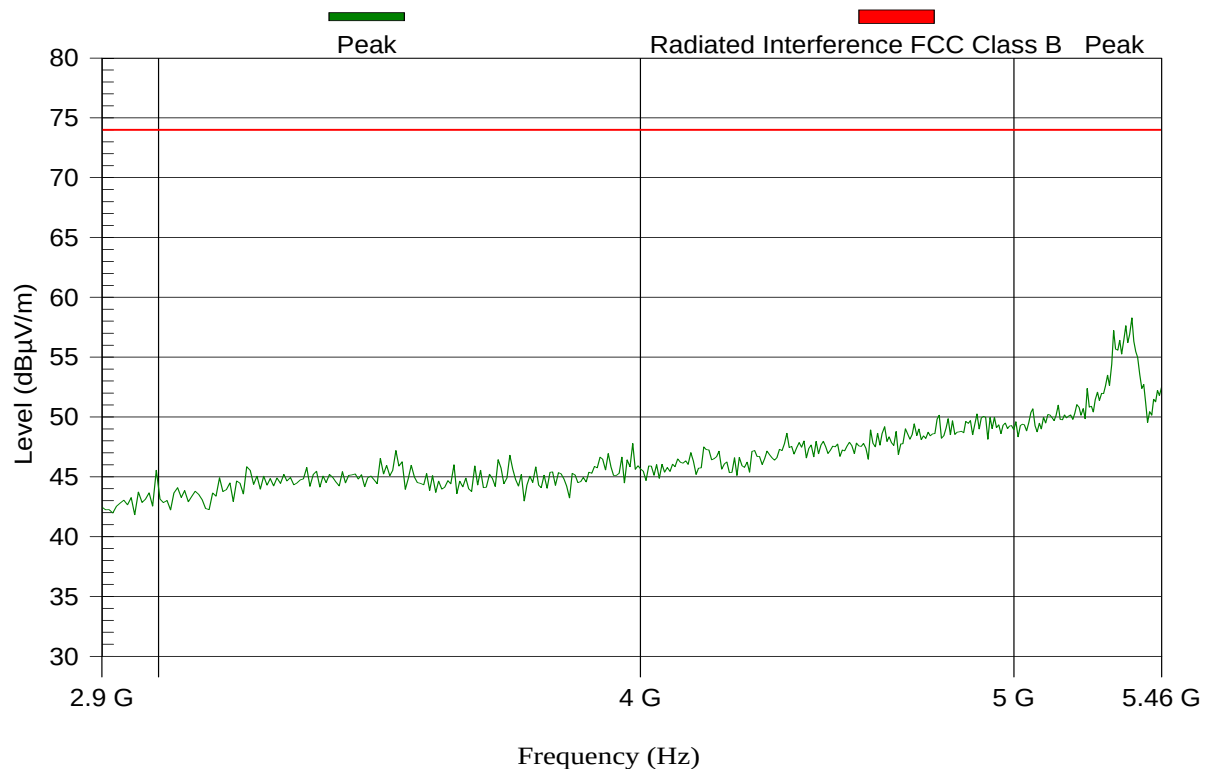
Test Results Plot No 266

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 1:18:32 PM

PEAK; DISH ANTENNA; TX MID 5790 MHz BW-40 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

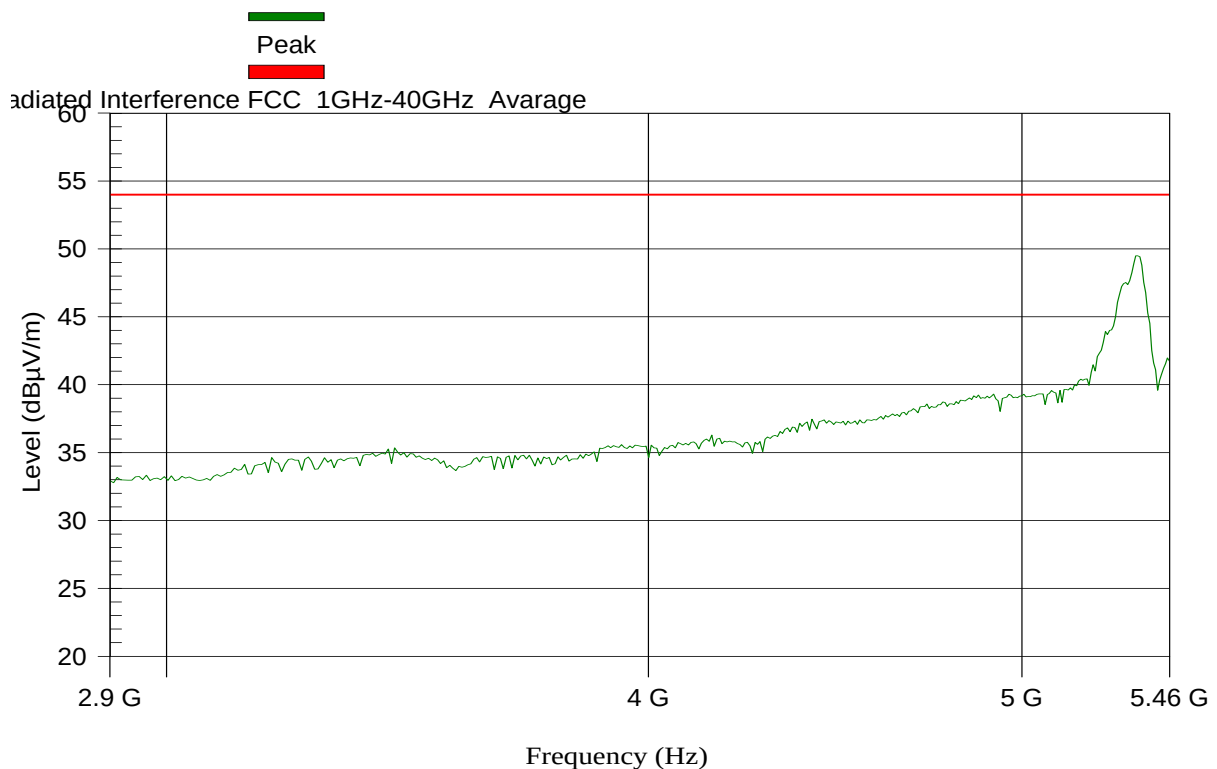
Test Results Plot No 267

2.9-5.460 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 3.34 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 1:09:06 PM

AVG; DISH ANTENNA; TX HIGH 5830 MHz BW-40 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	5357.6	49.5	54		0	1.4	H

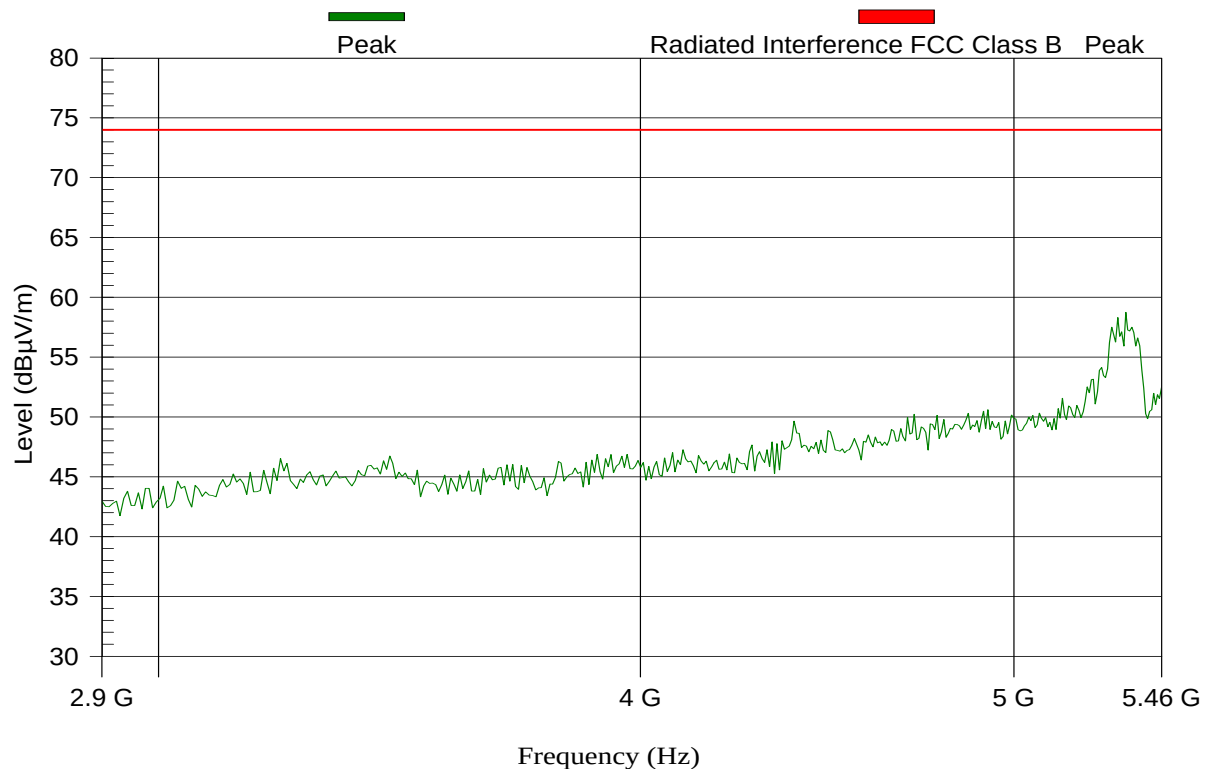
Test Results Plot No 268

2.9-5.46 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 10 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, February 01, 2010 1:03:27 PM

PEAK; DISH ANTENNA; TX HIGH 5830 MHz BW-40 MHz; Using N-filter



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

5.10.6. 5.460 – 7.25 GHz-Dish

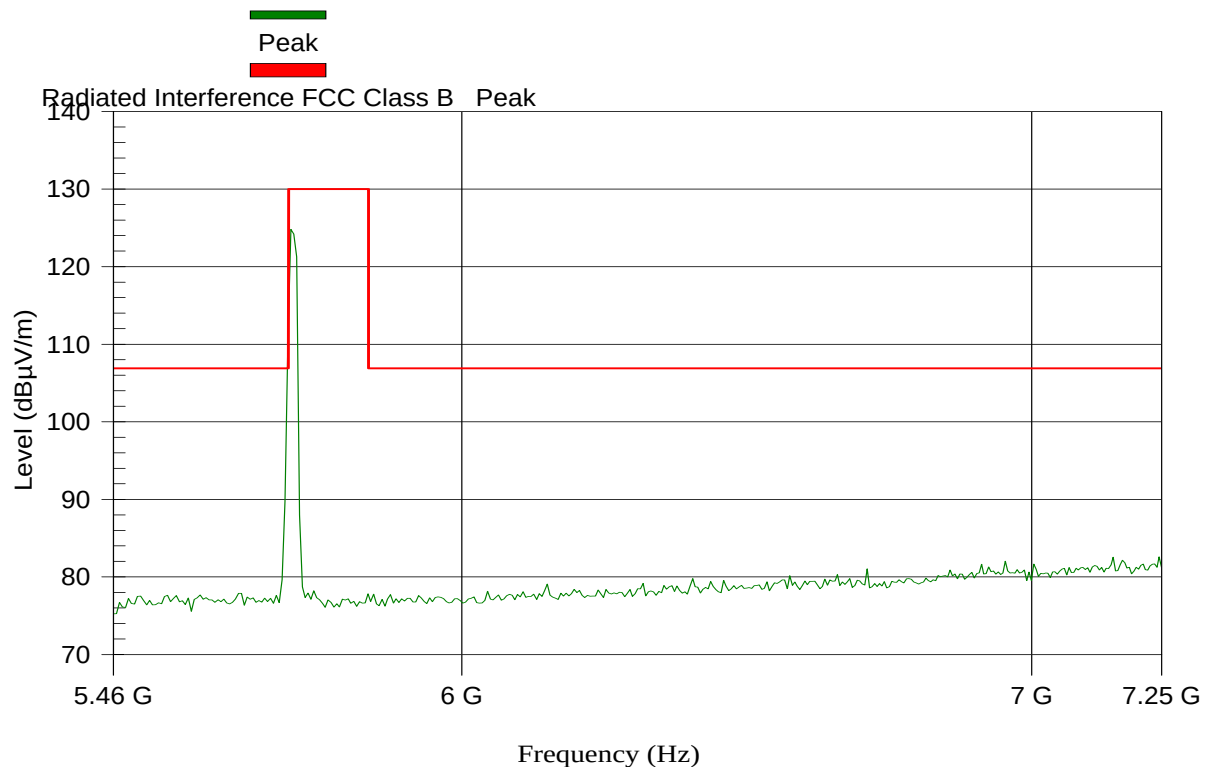
Test Results Plot No 269

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	120 dB μ V
Date of Test:		RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Tuesday, February 02, 2010 10:46:19 AM

LOW 5730 MHZ BW=5; limit 20dBc- 106.89dBuV; Not restricted band



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

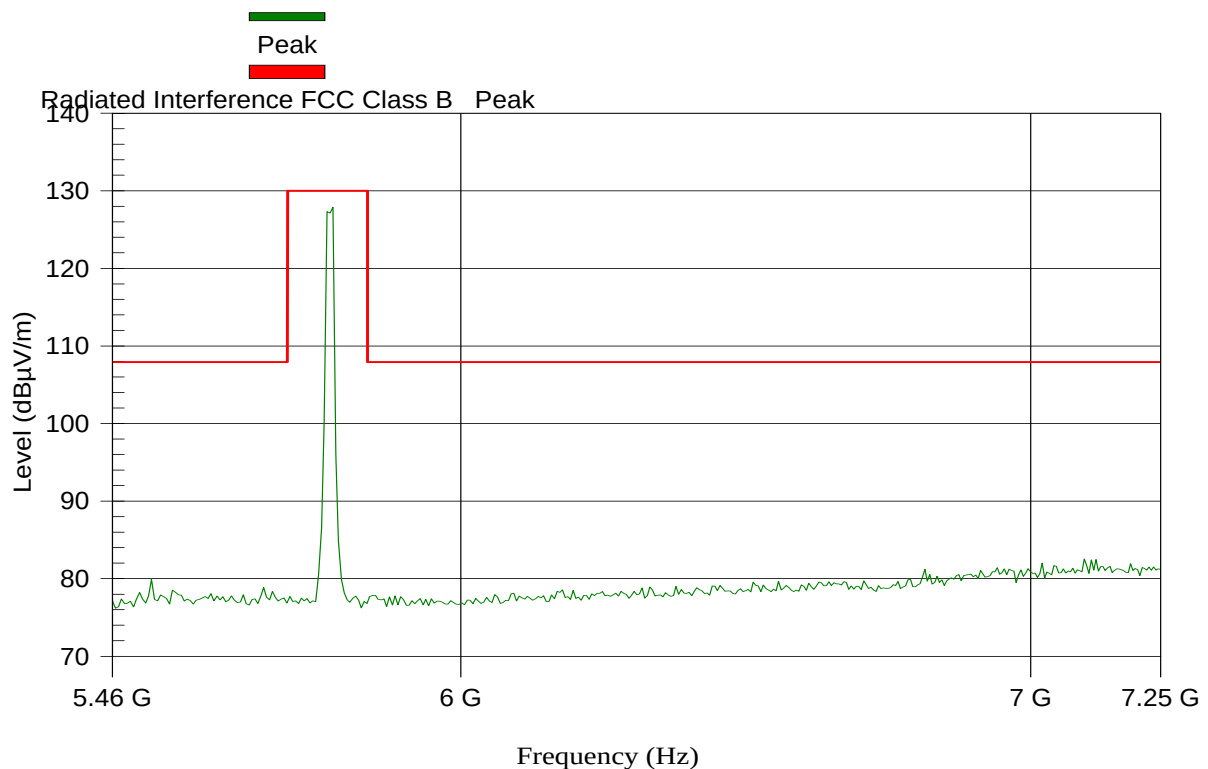
Test Results Plot No 270

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	120 dB μ V
Date of Test:	02.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Tuesday, February 02, 2010 10:58:33 AM

MID 5790 MHZ BW=5; limit 20dBc- 107.91dB μ V; Not restricted band



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

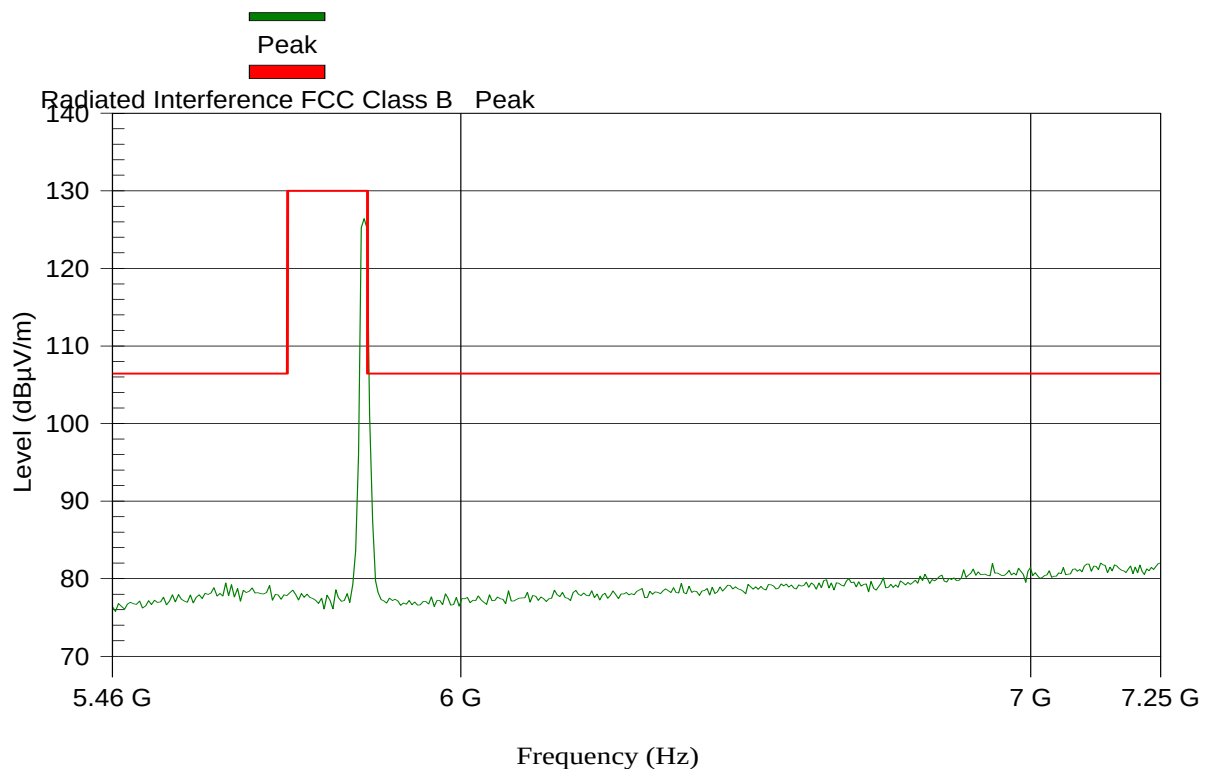
Test Results Plot No 271

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	120 dB μ V
Date of Test:	02.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	No Description Available

TEST REMARKS: Tuesday, February 02, 2010 11:06:35 AM

HIGH 5845 MHZ BW=5; limit 20dBc- 106.43dBuV; Not restricted band



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

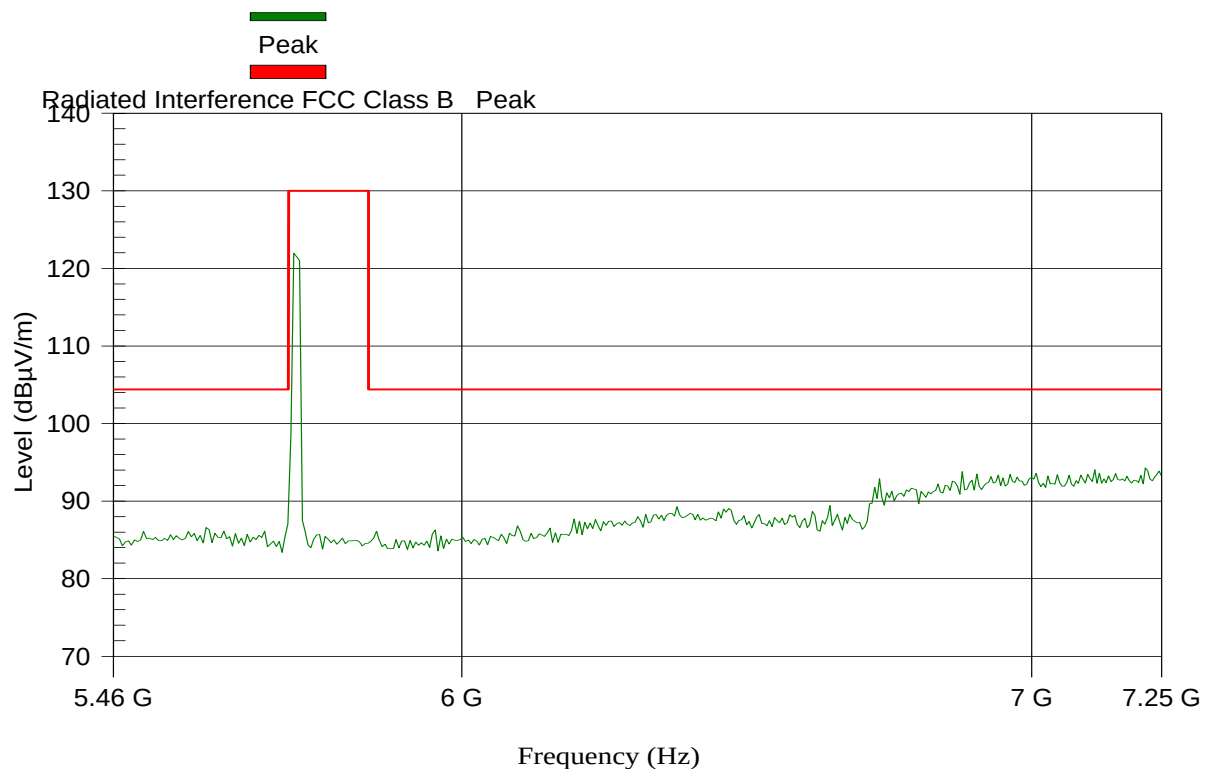
Test Results Plot No 272

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	120 dB μ V
Date of Test:	02.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 40dB AND 20dB ATT

TEST REMARKS: Tuesday, February 02, 2010 10:25:11 AM

LOW 5735 MHZ BW=10; limit 20dBc- 104.39dBuV; Not restricted band



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

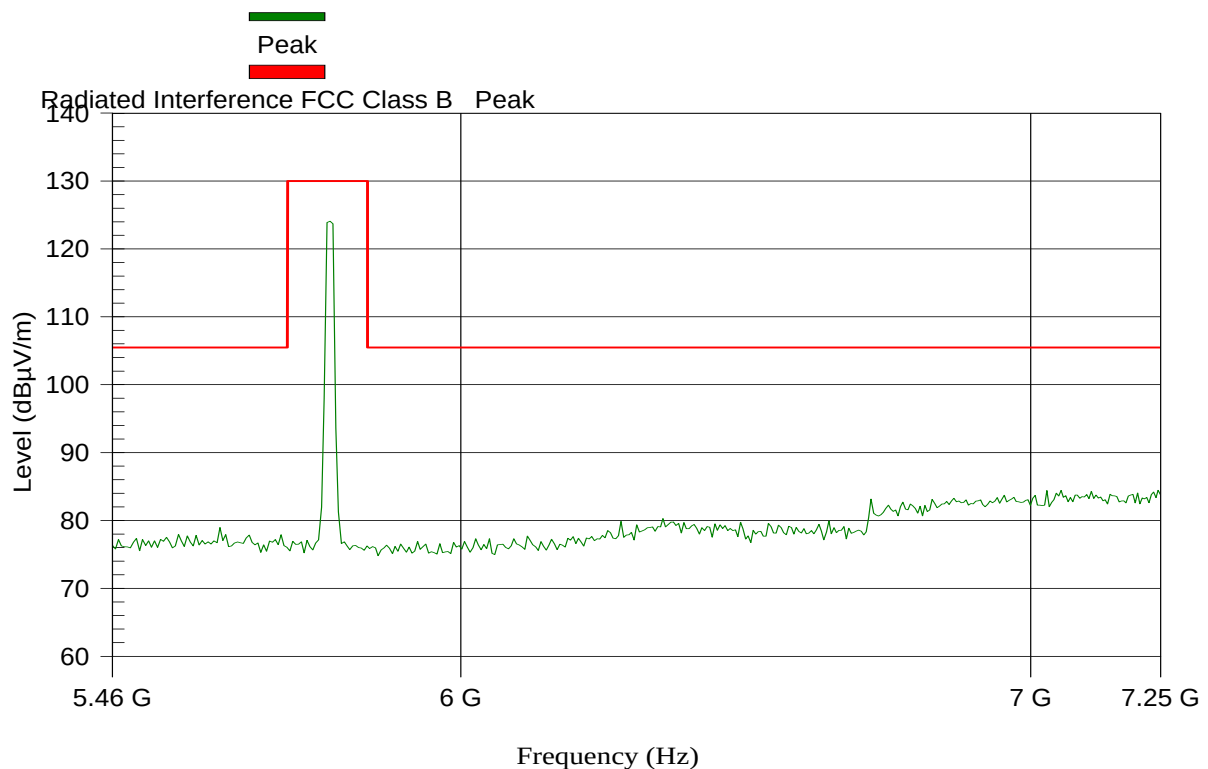
Test Results Plot No 273

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	120 dB μ V
Date of Test:	02.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 40dB AND 20dB ATT

TEST REMARKS: Tuesday, February 02, 2010 10:16:54 AM

MID 5790 MHZ BW=10; limit 20dBc- 105.48dB μ V; Not restricted band



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

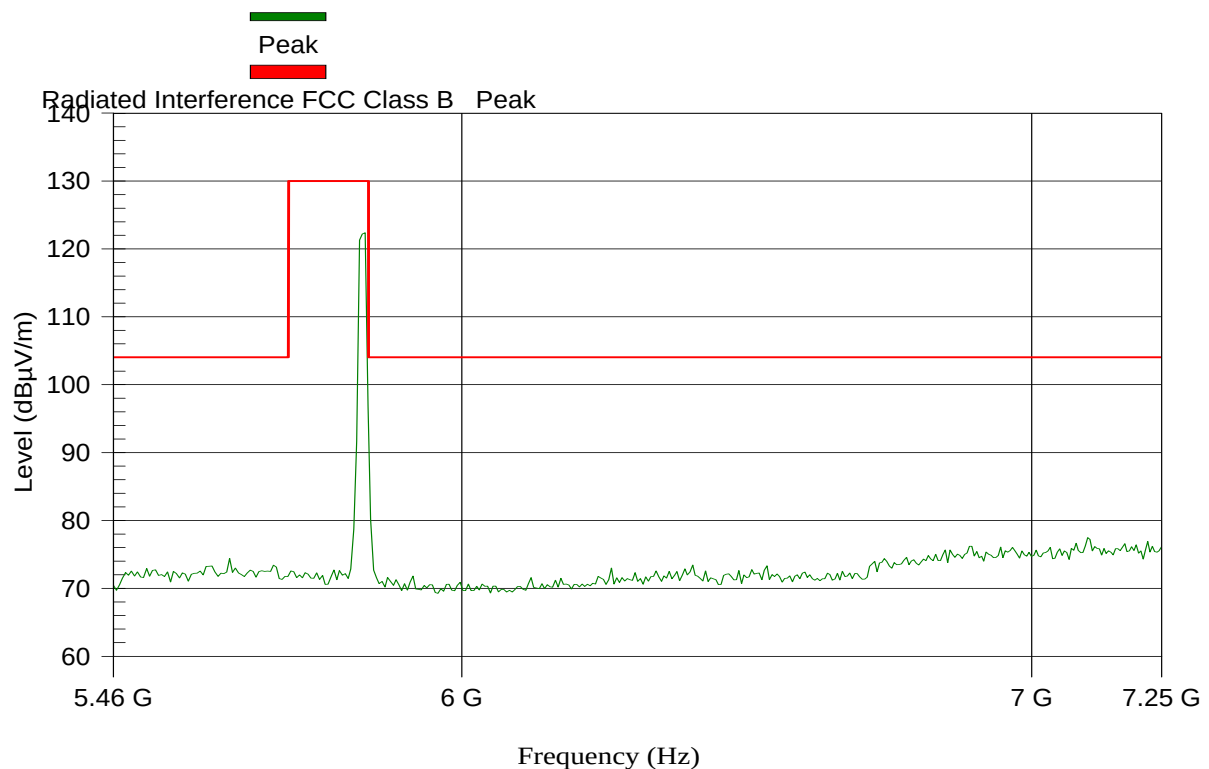
Test Results Plot No 274

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	120 dB μ V
Date of Test:	02.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 40dB AND 20dB ATT

TEST REMARKS: Tuesday, February 02, 2010 10:10:41 AM

HIGH 5830 MHZ BW=10; limit 20dBc- 104.07dB μ V; Not restricted band



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

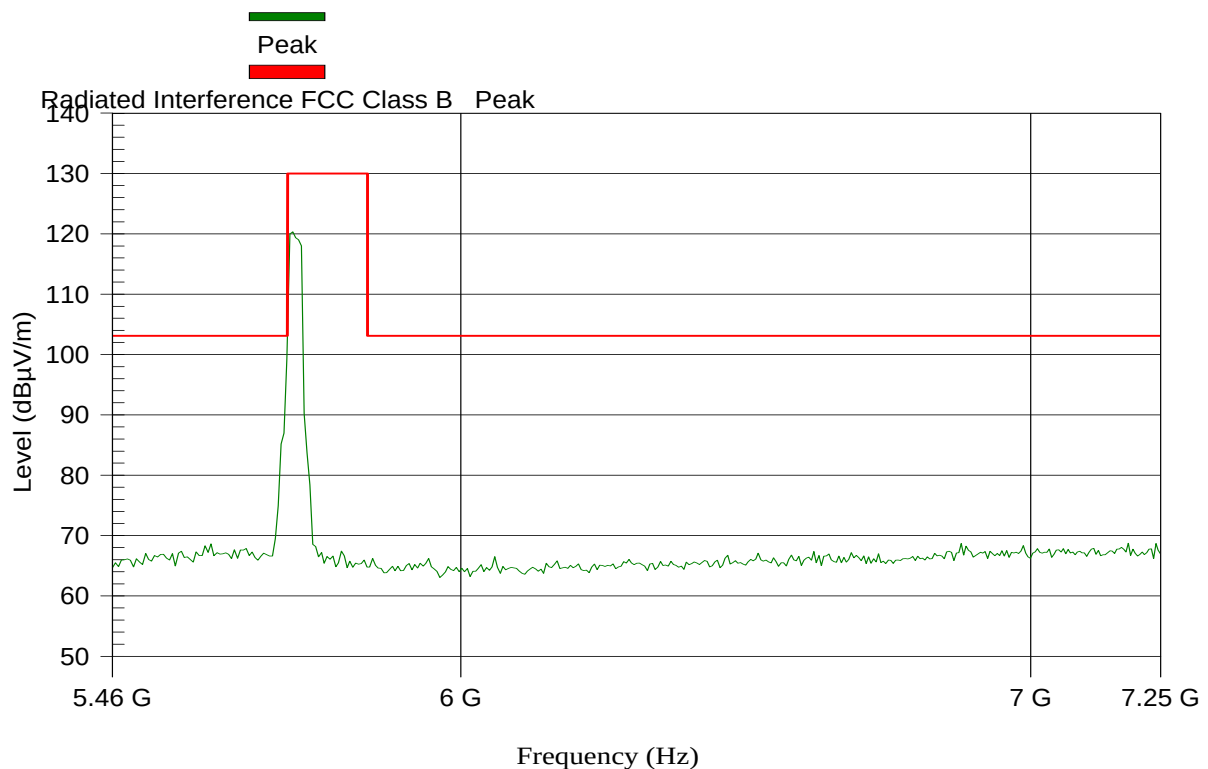
Test Results Plot No 275

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 40dB AND 20dB ATT

TEST REMARKS: Monday, February 01, 2010 3:32:11 PM

LOW 5735 MHZ BW=20; limit 20dBc- 103.1dB μ V; Not restricted band



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

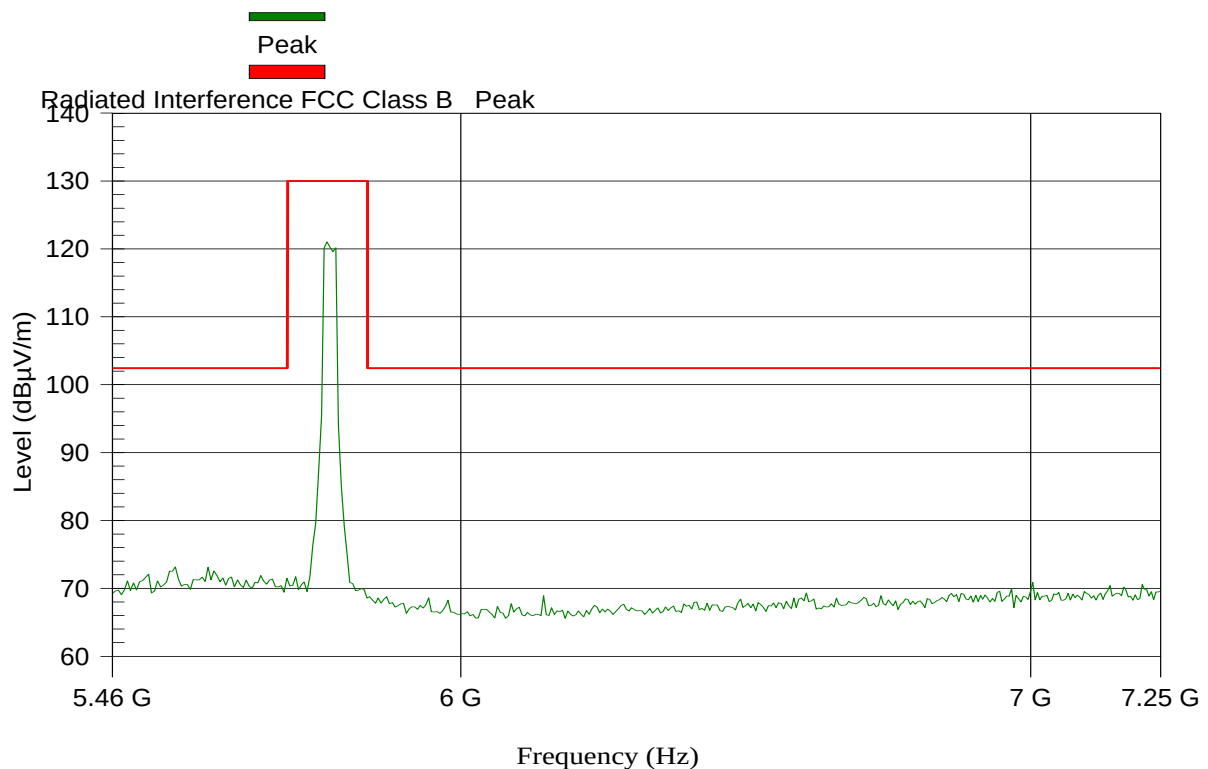
Test Results Plot No 276

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	100 dB μ V
Date of Test:	01.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 40dB AND 20dB ATT

TEST REMARKS: Monday, February 01, 2010 3:57:40 PM

MID 5790 MHZ BW=20; limit 20dBc- 102.45dBuV; Not restricted band



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

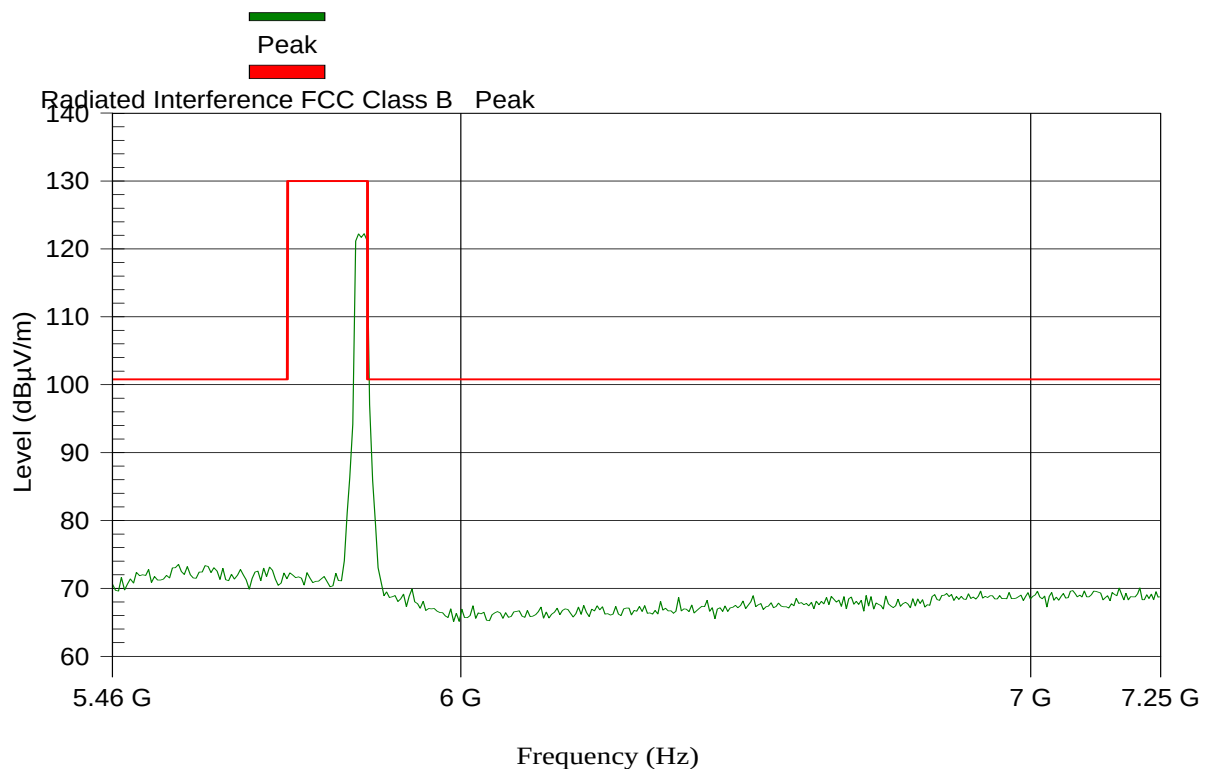
Test Results Plot No 277

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	100 dB μ V
Date of Test:	01.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 40dB AND 20dB ATT

TEST REMARKS: Monday, February 01, 2010 4:07:26 PM

HIGH 5830 MHZ BW=20; limit 20dBc- 100.79dB μ V; Not restricted band



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

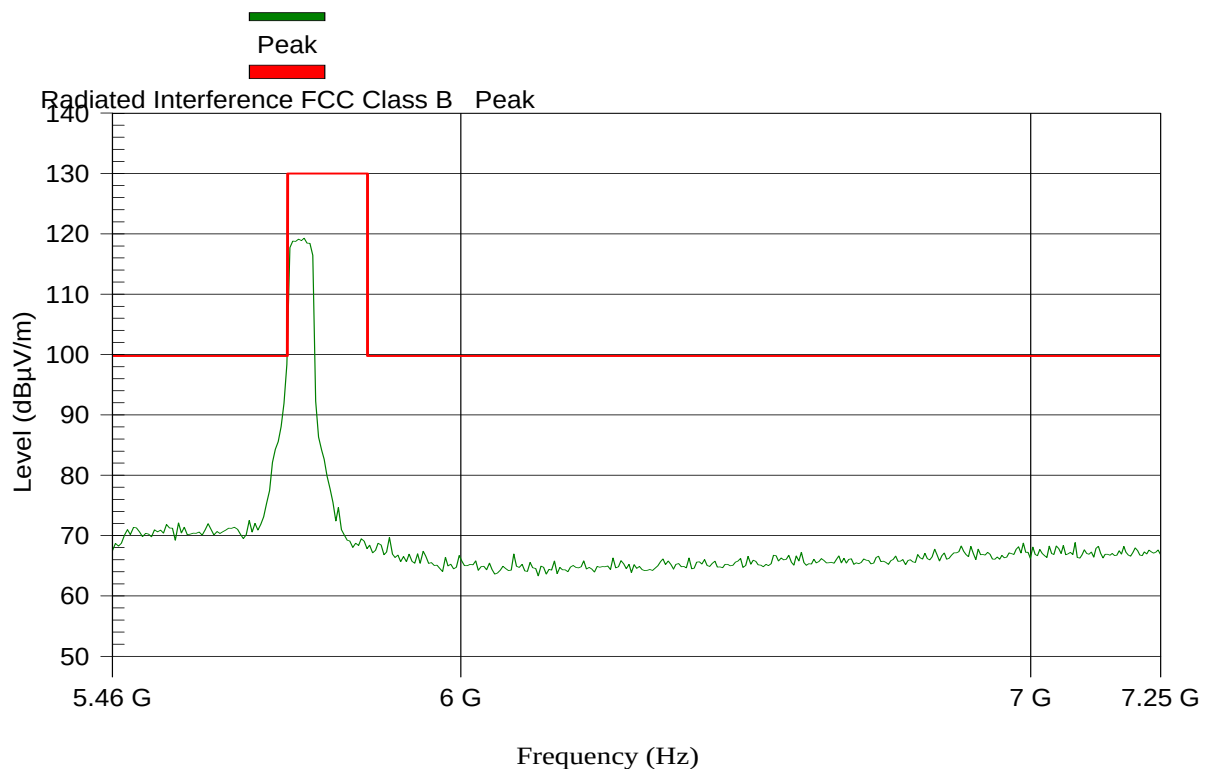
Test Results Plot No 278

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 40dB AND 20dB ATT

TEST REMARKS: Monday, February 01, 2010 2:49:17 PM

LOW 5745 MHZ BW=40; limit 20dBc- 99.75dB μ V; Not restricted band



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

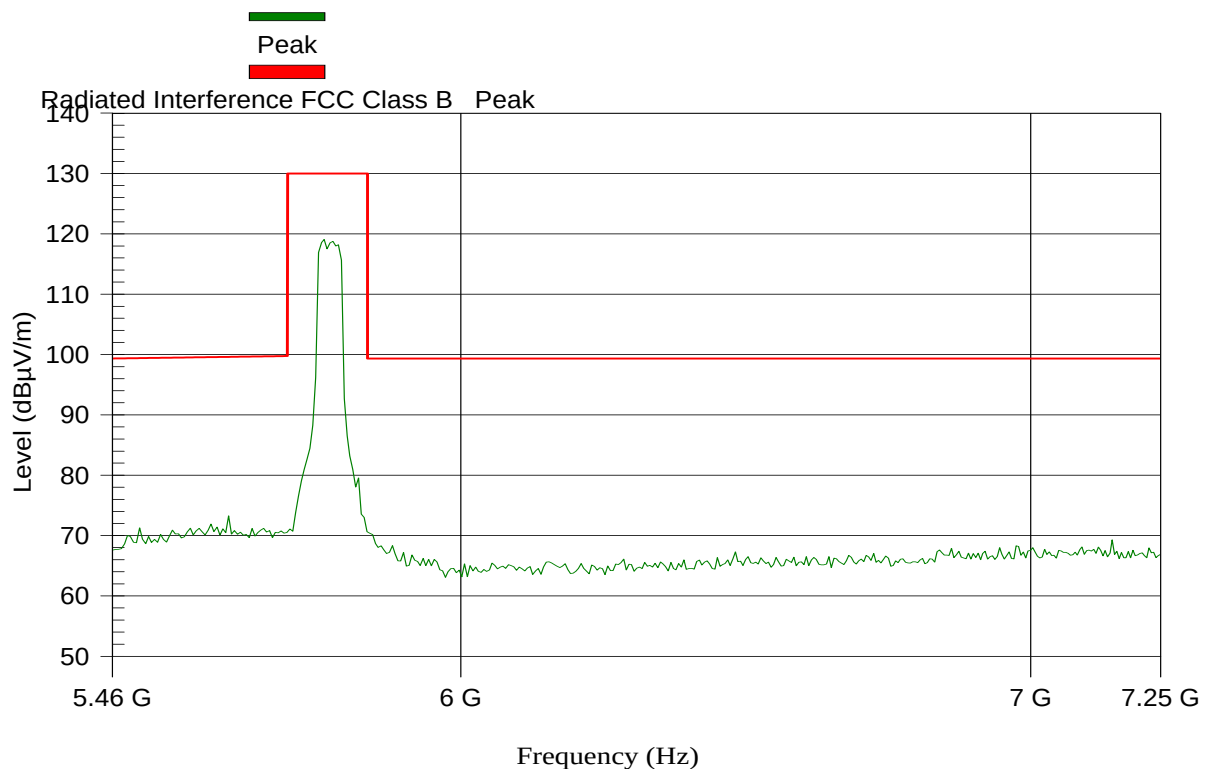
Test Results Plot No 279

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 40dB AND 20dB ATT

TEST REMARKS: Monday, February 01, 2010 3:05:14 PM

MID 5790 MHZ BW=40; limit 20dBc- 99.34dB μ V; Not restricted band



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

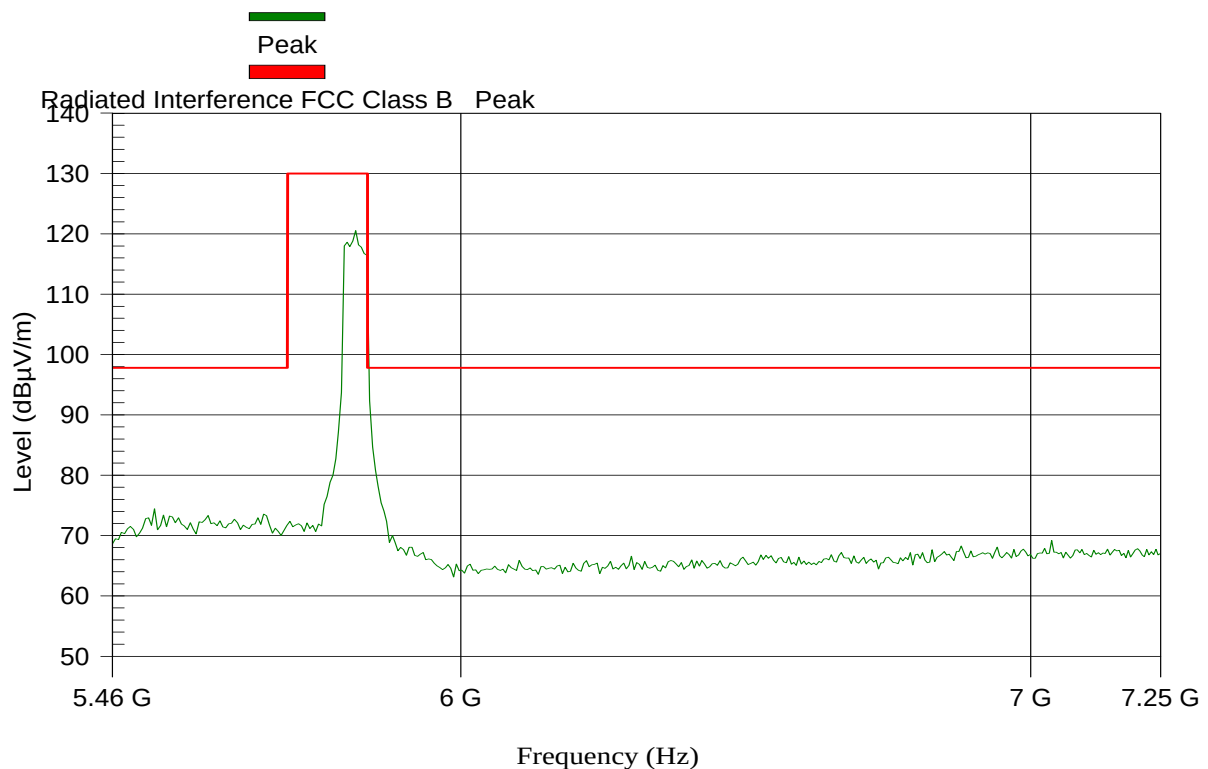
Test Results Plot No 280

5.460-7.250 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 90 dB μ V
Date of Test:	01.02.2010	RBW:	100 kHz
Test Engineer:	Ilya Arbitman	VBW:	100 kHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 230.63 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 40dB AND 20dB ATT

TEST REMARKS: Monday, February 01, 2010 3:17:13 PM

HIGH 5830 MHZ BW=40; limit 20dBc- 97.81dB μ V; Not restricted band



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

5.10.7. 7.25 – 18 GHz-Dish

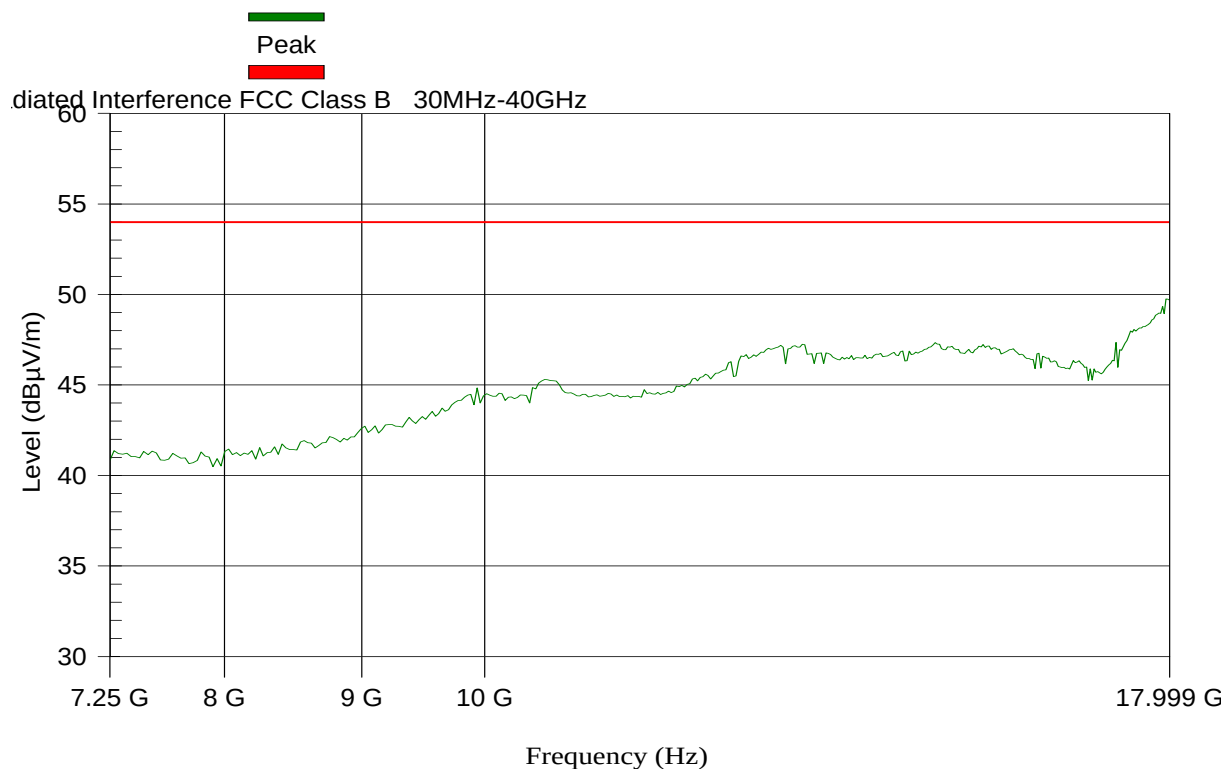
Test Results Plot No 281

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 11:42:59 AM

AVG; DISH ANTENNA; LOW 5730 MHz BW=5 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17945.255	49.8		0	1.2	V

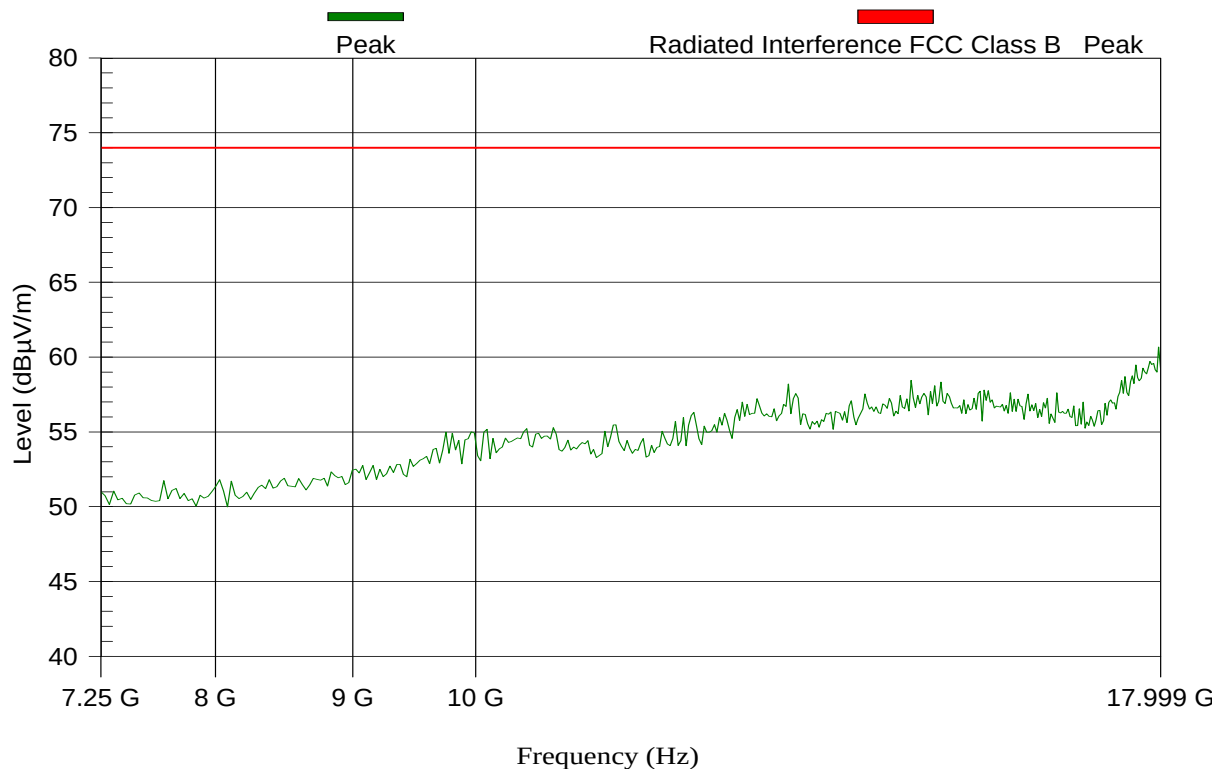
Test Results Plot No 282

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 11:45:15 AM

PEAK; DISH ANTENNA; LOW 5730 MHz BW=5 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

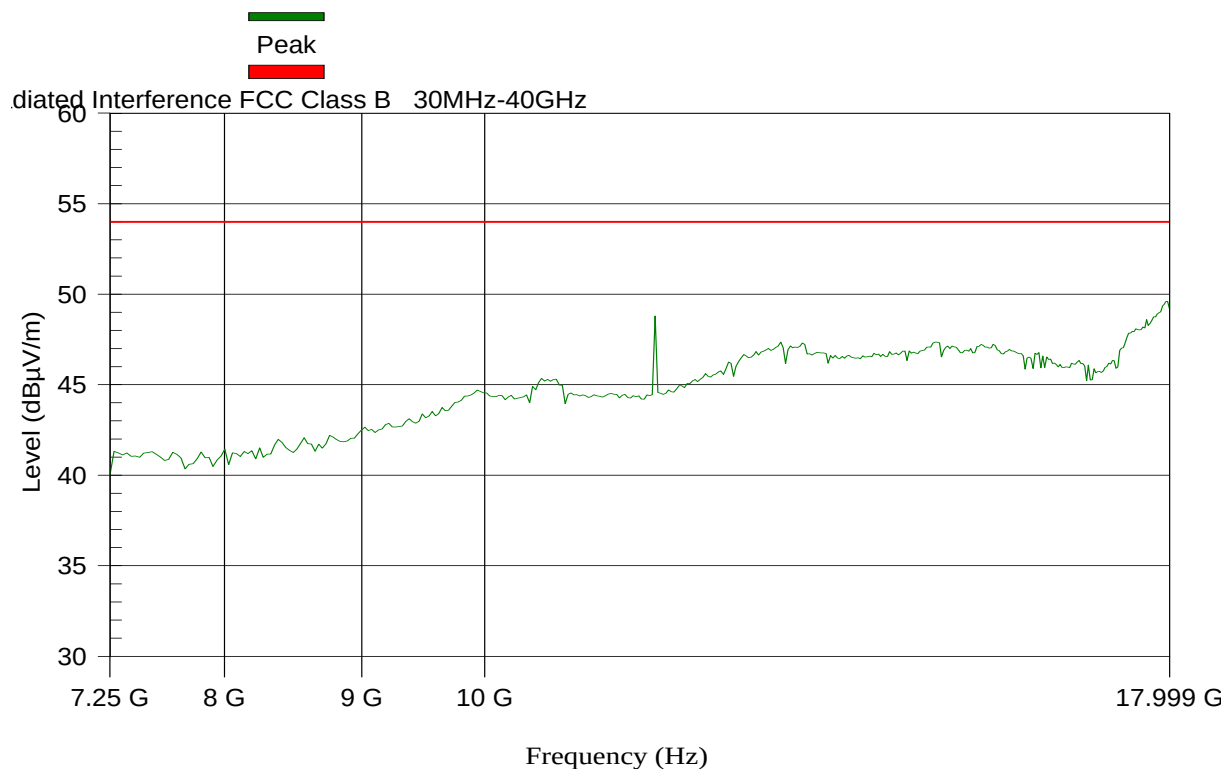
Test Results Plot No 283

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 11:38:21 AM

AVG; DISH ANTENNA; MID 5790 MHz BW=5 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.8		0	1	V

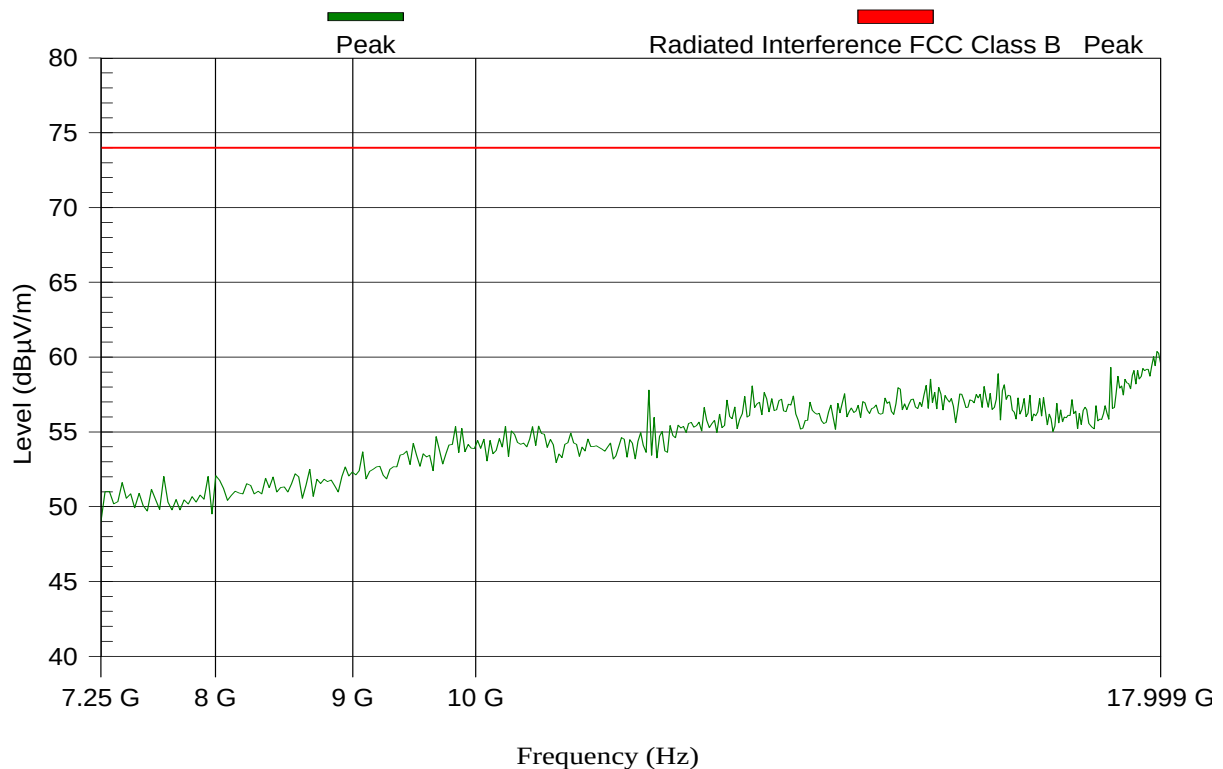
Test Results Plot No 284

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 11:34:15 AM

PEAK; DISH ANTENNA; MID 5790 MHz BW=5 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

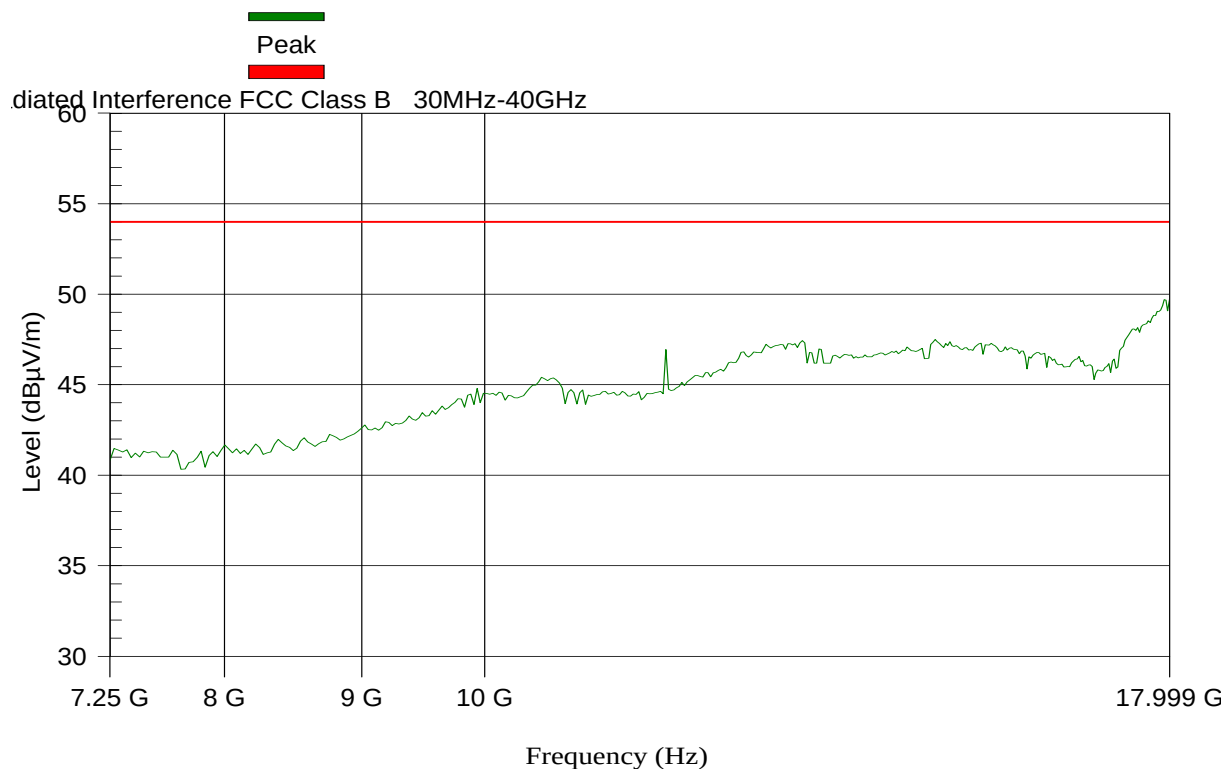
Test Results Plot No 285

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 11:26:42 AM

AVG; DISH ANTENNA; HIGH 5845 MHz BW=5 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.8		0	1	H

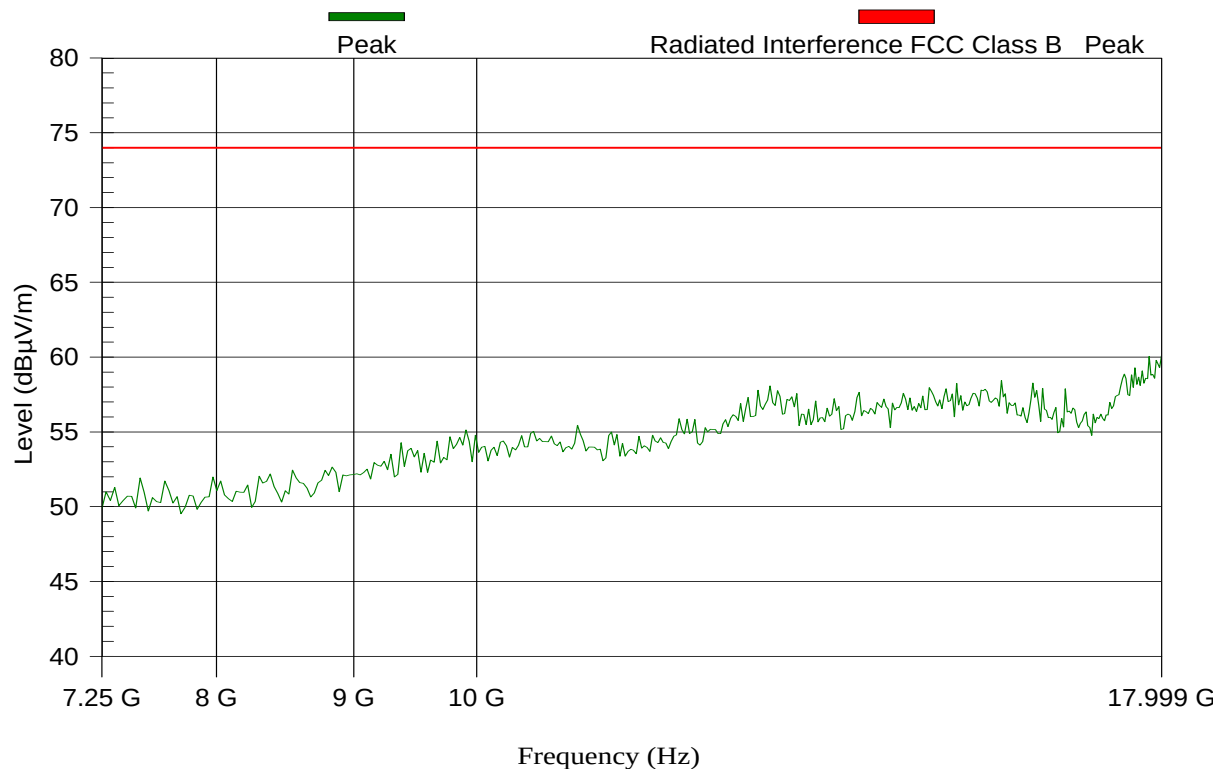
Test Results Plot No 286

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 11:31:57 AM

PEAK; DISH ANTENNA; HIGH 5845 MHz BW=5 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

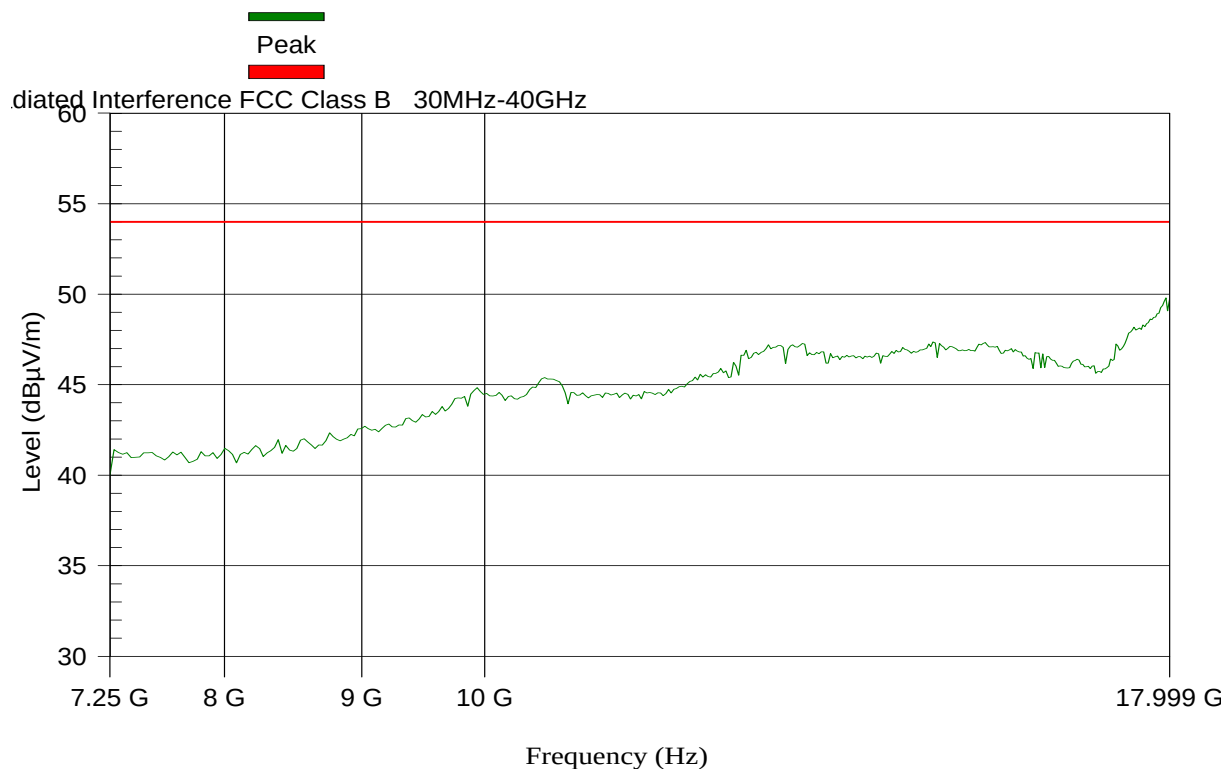
Test Results Plot No 287

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 11:49:24 AM

AVG; DISH ANTENNA; LOW 5735 MHz BW=10 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17945.255	49.8		0	1.4	V

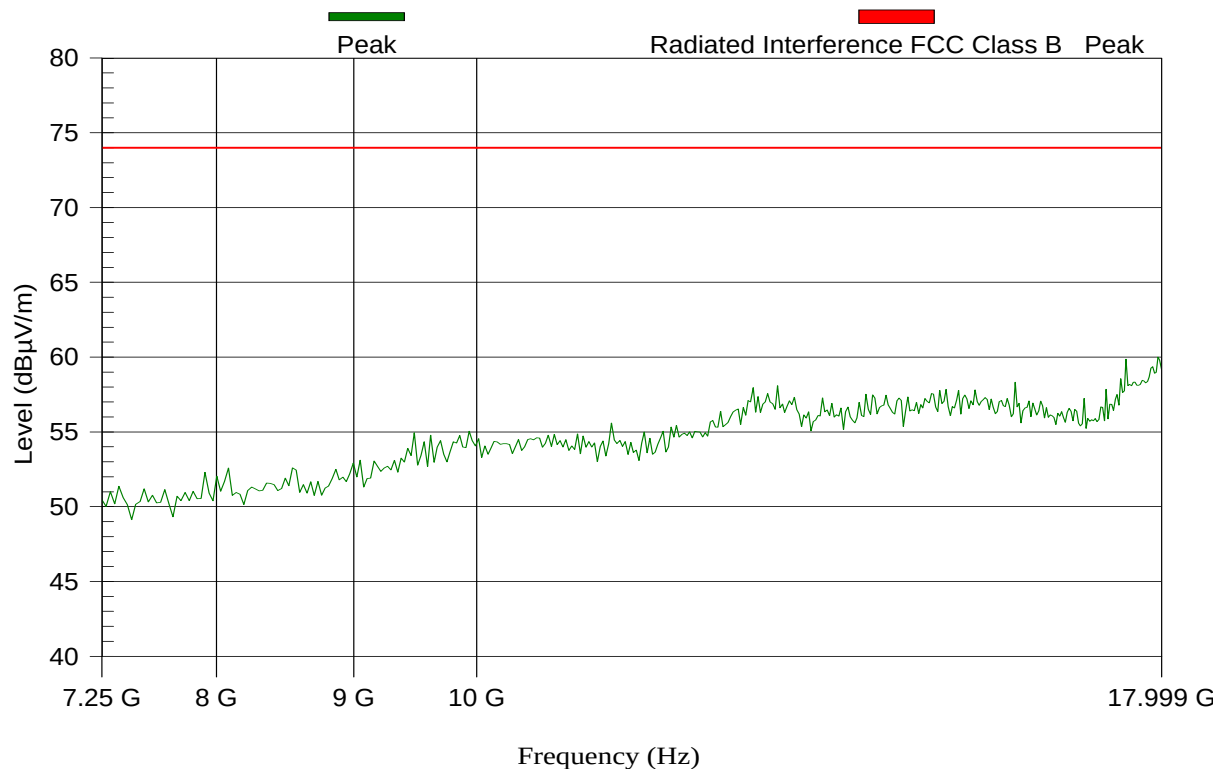
Test Results Plot No 288

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 11:51:43 AM

PEAK; DISH ANTENNA; LOW 5735 MHz BW=10 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

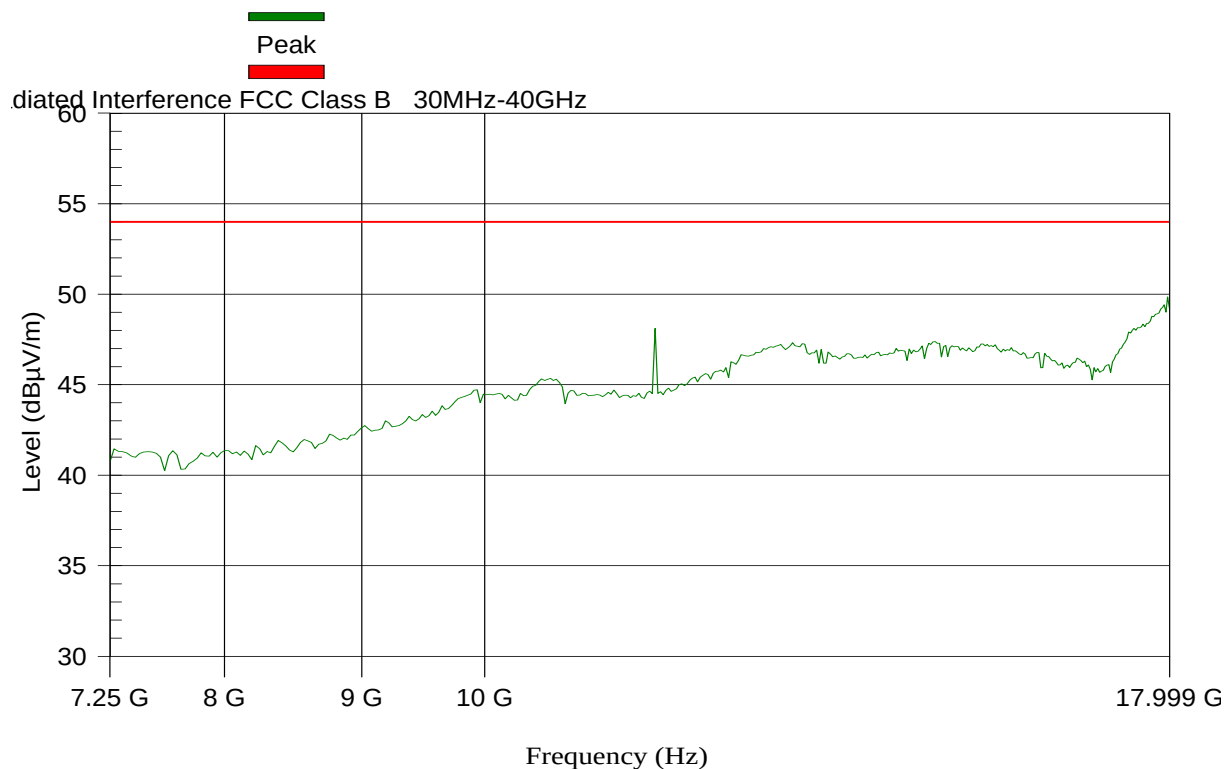
Test Results Plot No 289

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 11:56:18 AM

AVG; DISH ANTENNA; MID 5790 MHz BW=10 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.8		0	1.2	V

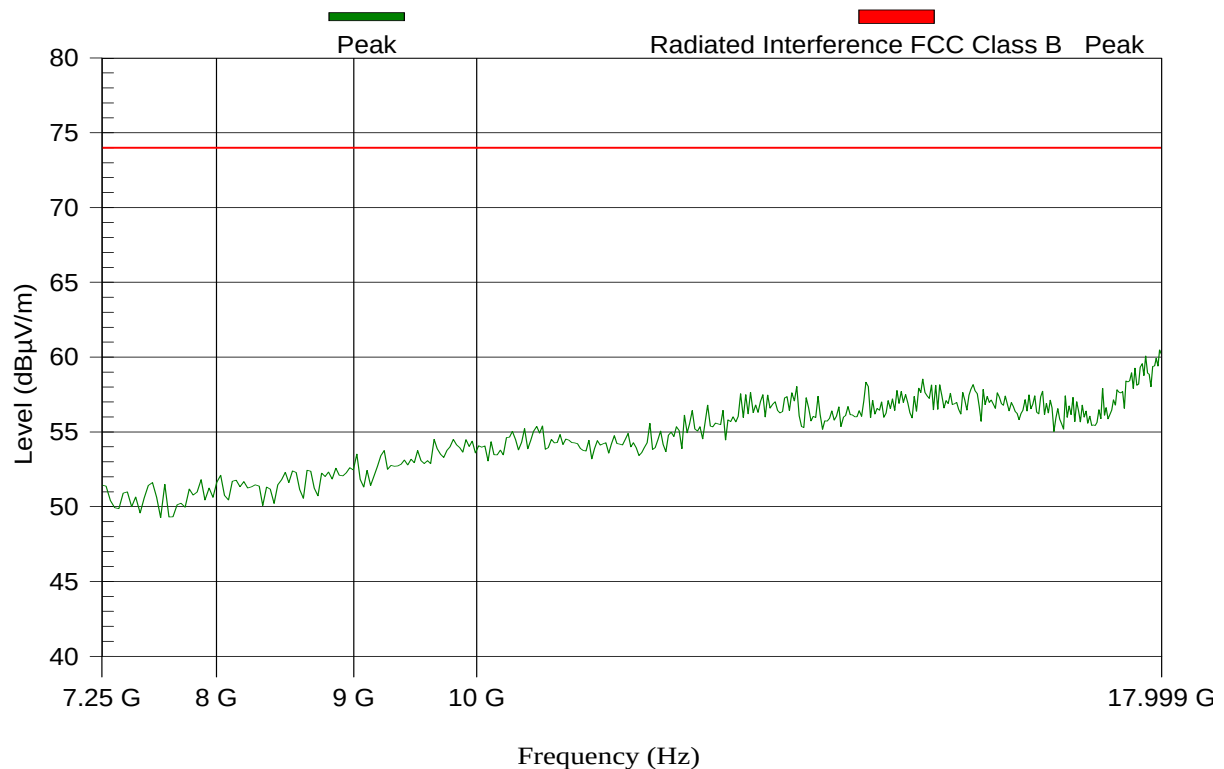
Test Results Plot No 290

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dBμV
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 11:58:39 AM

PEAK; DISH ANTENNA; MID 5790 MHz BW=10 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

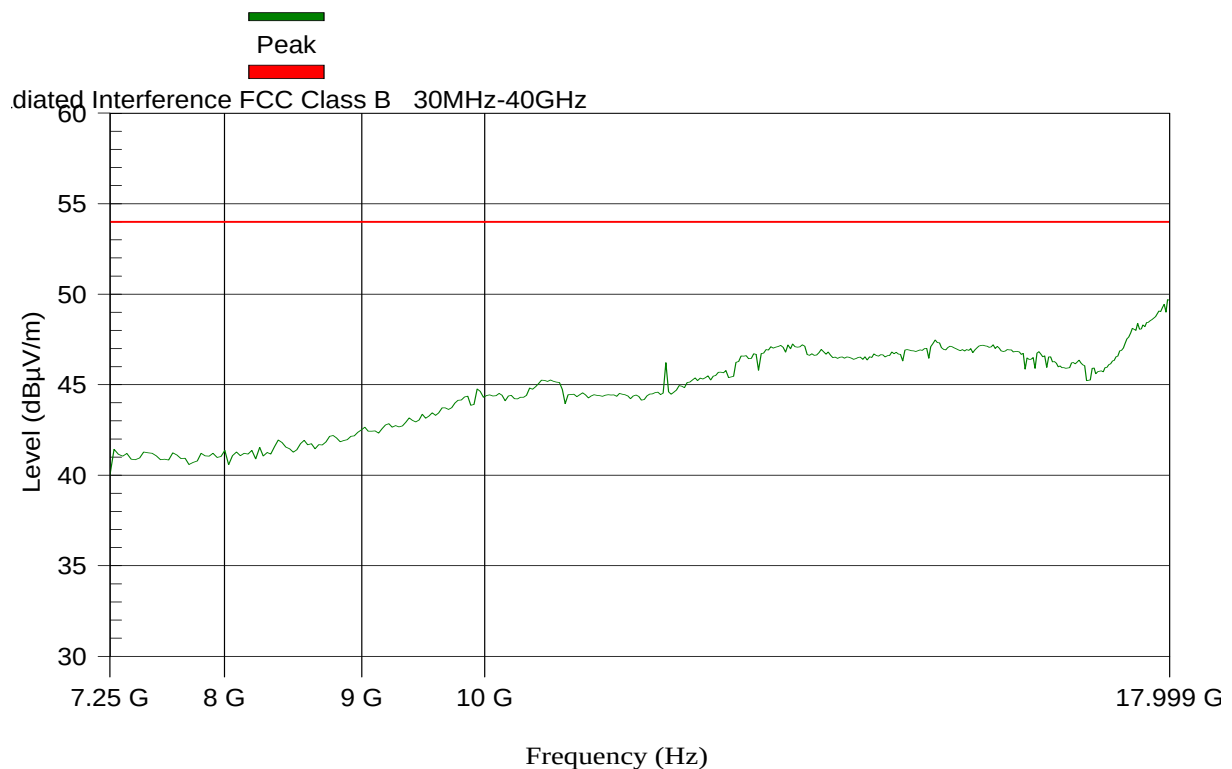
Test Results Plot No 291

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 12:02:33 PM

AVG; DISH ANTENNA; HIGH 5840 MHz BW=10 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17972.127	49.7		0	1.2	H

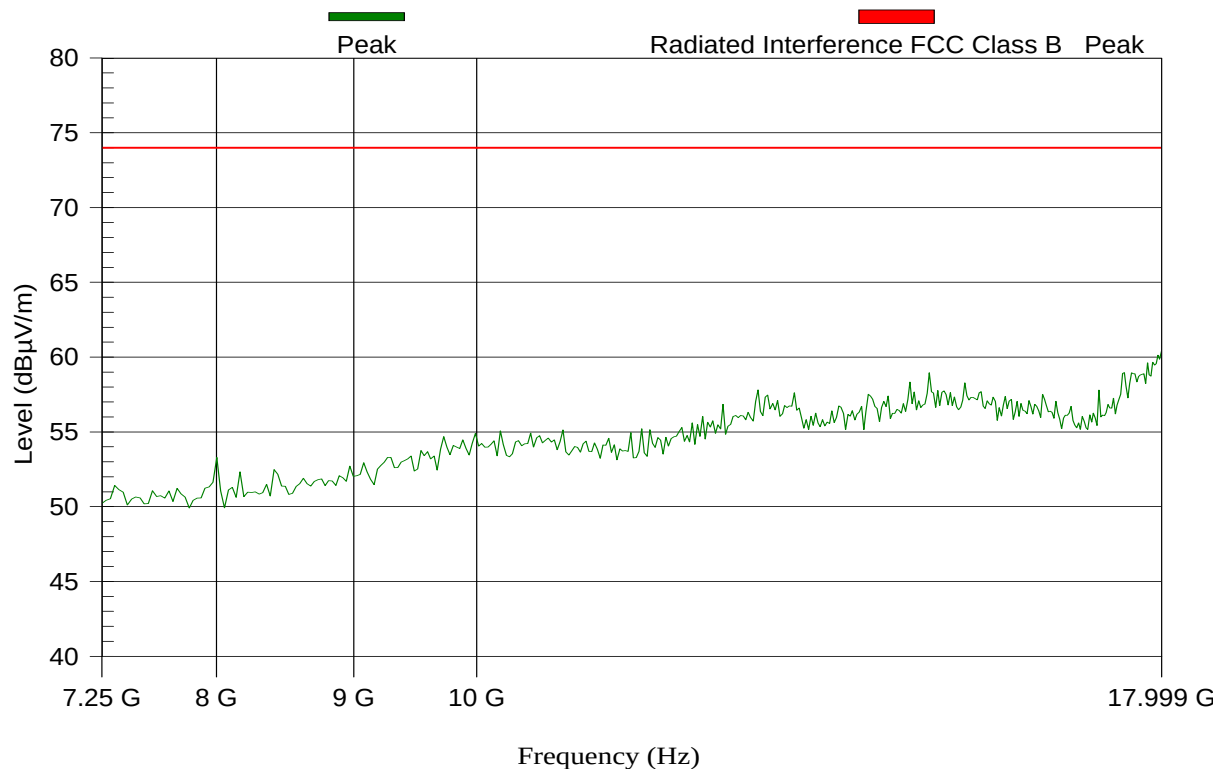
Test Results Plot No 292

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 12:04:53 PM

PEAK; DISH ANTENNA; HIGH 5840 MHz BW=10 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

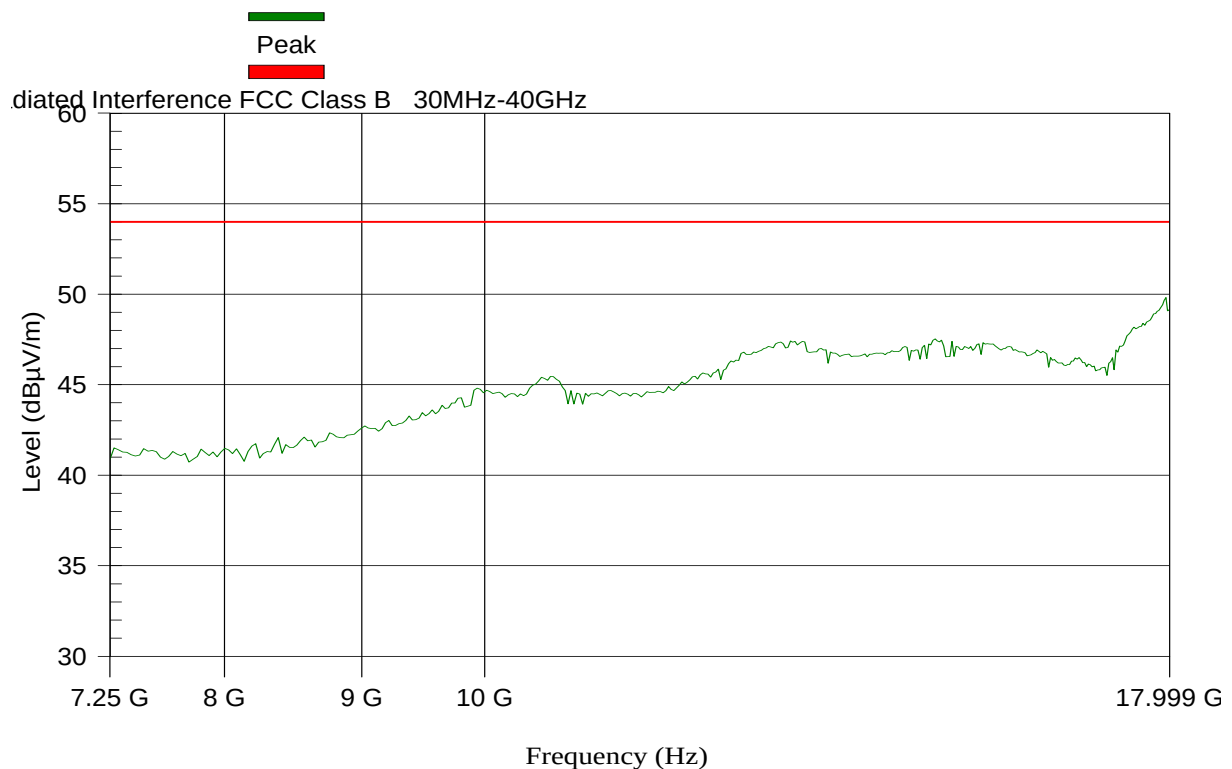
Test Results Plot No 293

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 12:51:12 PM

AVG; DISH ANTENNA; LOW 5735 MHz BW=20 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.8		0	1.4	H

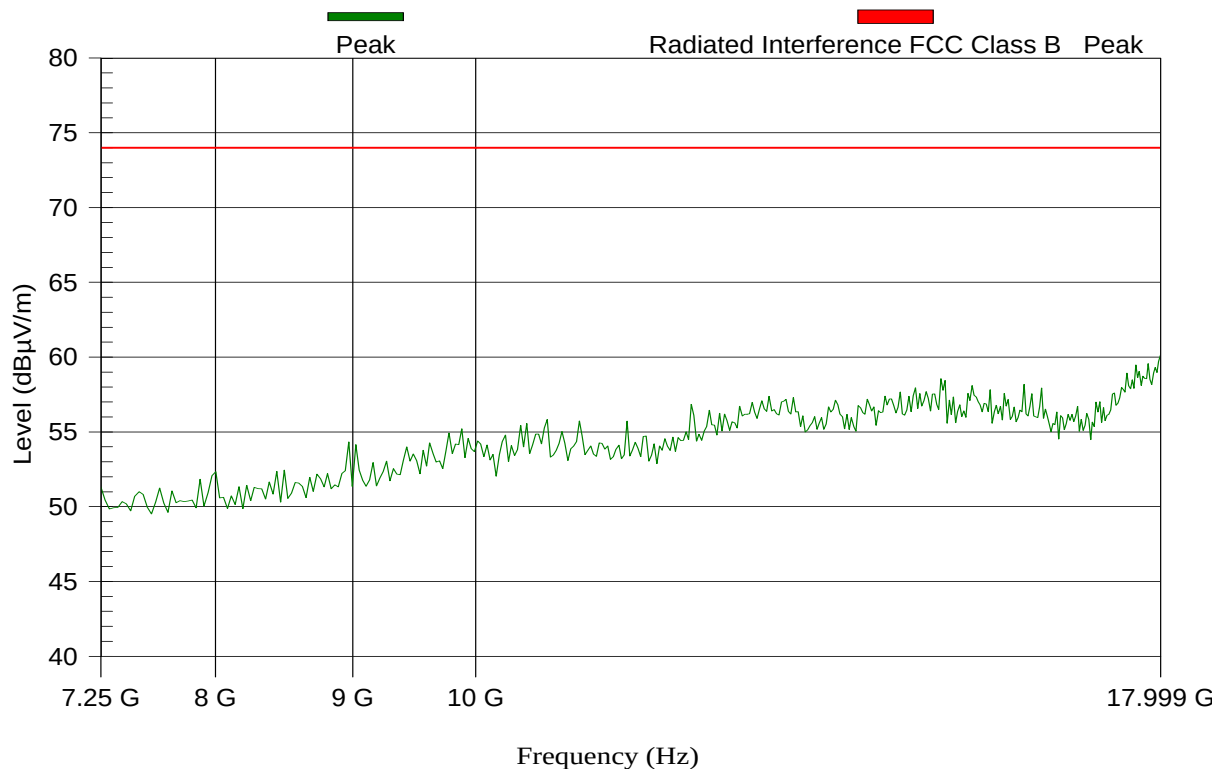
Test Results Plot No 294

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 12:53:26 PM

PEAK; DISH ANTENNA; LOW 5735 MHz BW=20 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

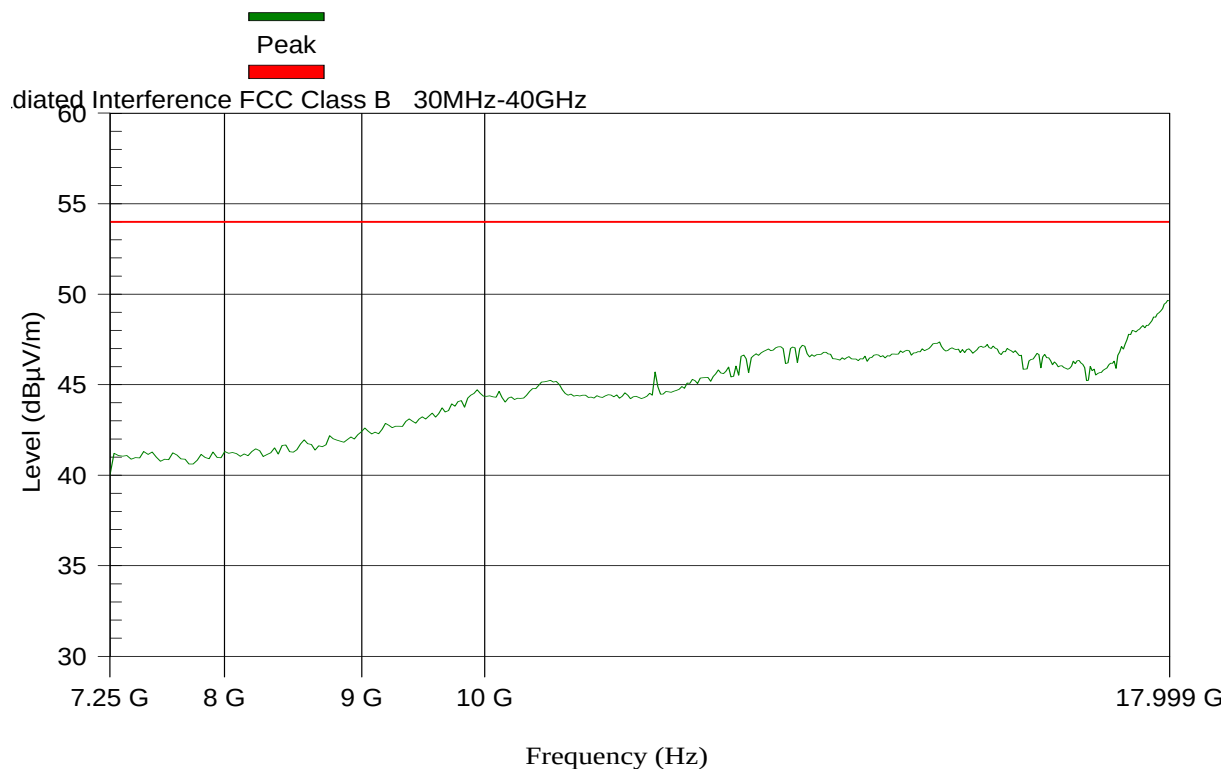
Test Results Plot No 295

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 12:14:25 PM

AVG; DISH ANTENNA; MID 5790 MHz BW=20 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17972.127	49.7		0	1	H

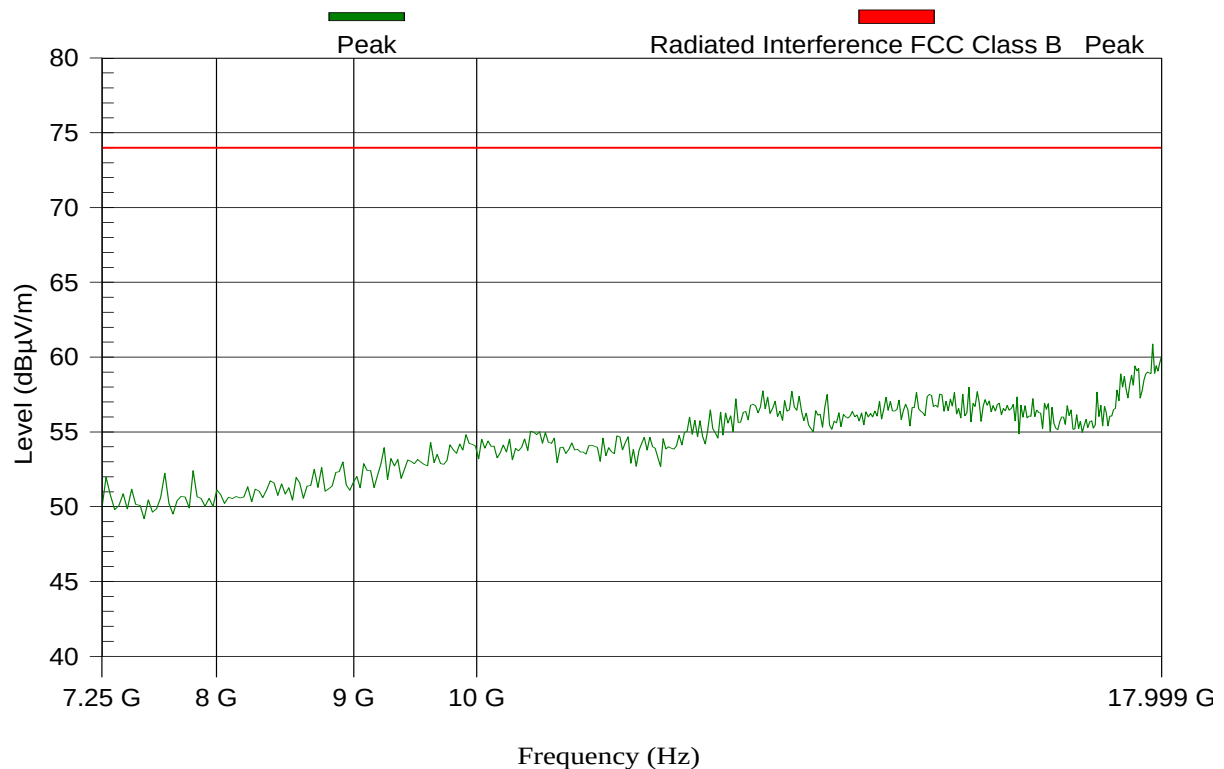
Test Results Plot No 296

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 12:16:29 PM

PEAK; DISH ANTENNA; MID 5790 MHz BW=20 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

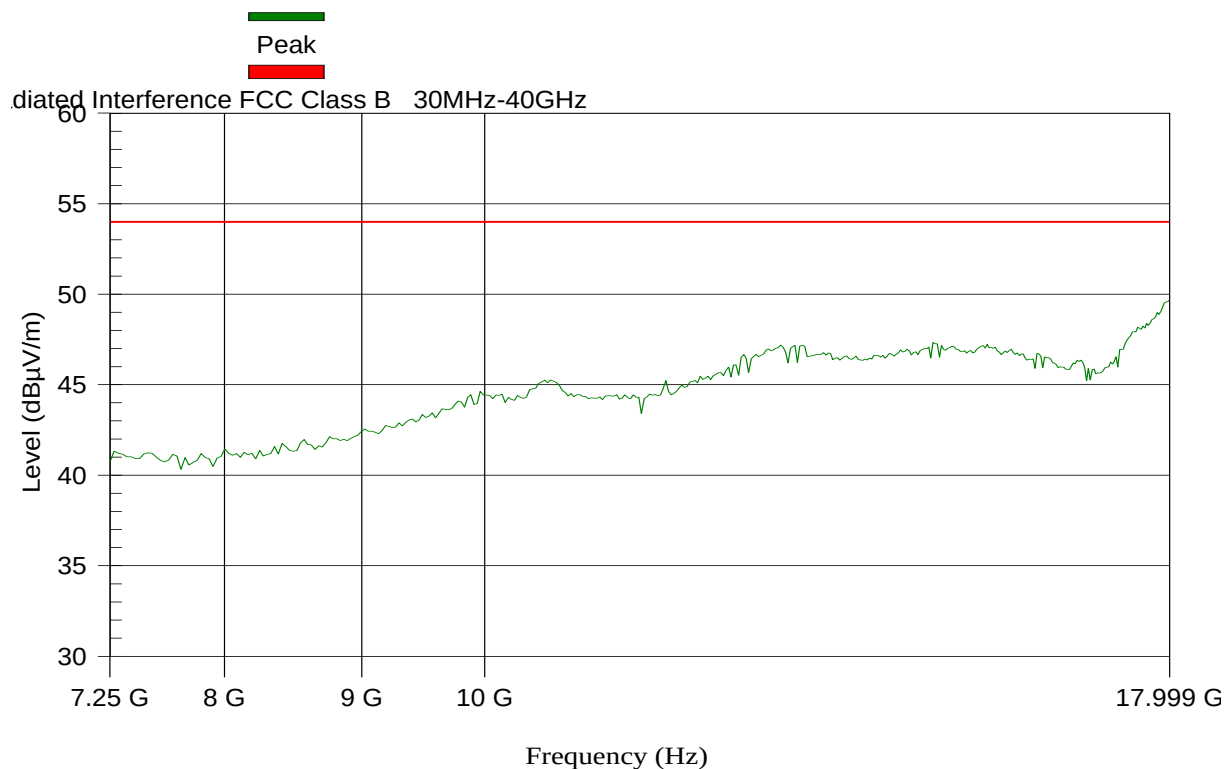
Test Results Plot No 297

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 12:08:36 PM

AVG; DISH ANTENNA; HIGH 5840 MHz BW=20 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.7		0	1	H

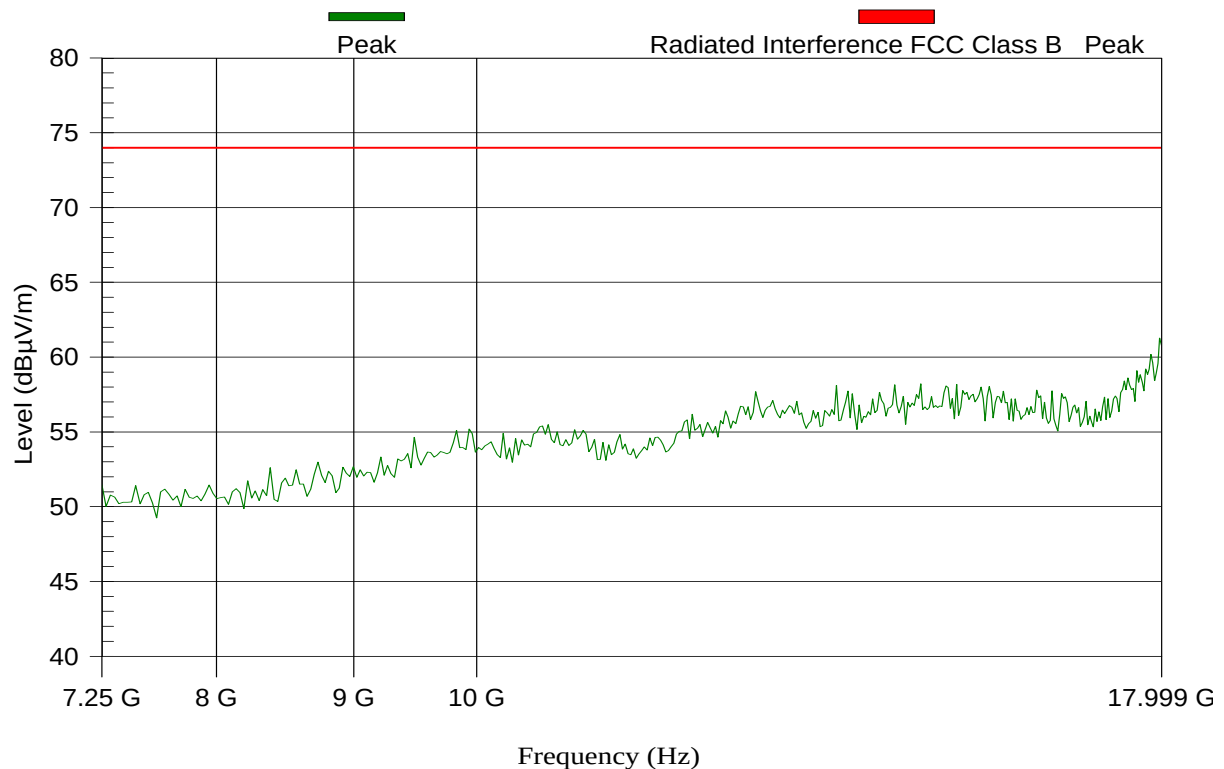
Test Results Plot No 298

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 12:10:38 PM

PEAK; DISH ANTENNA; HIGH 5840 MHz BW=20 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

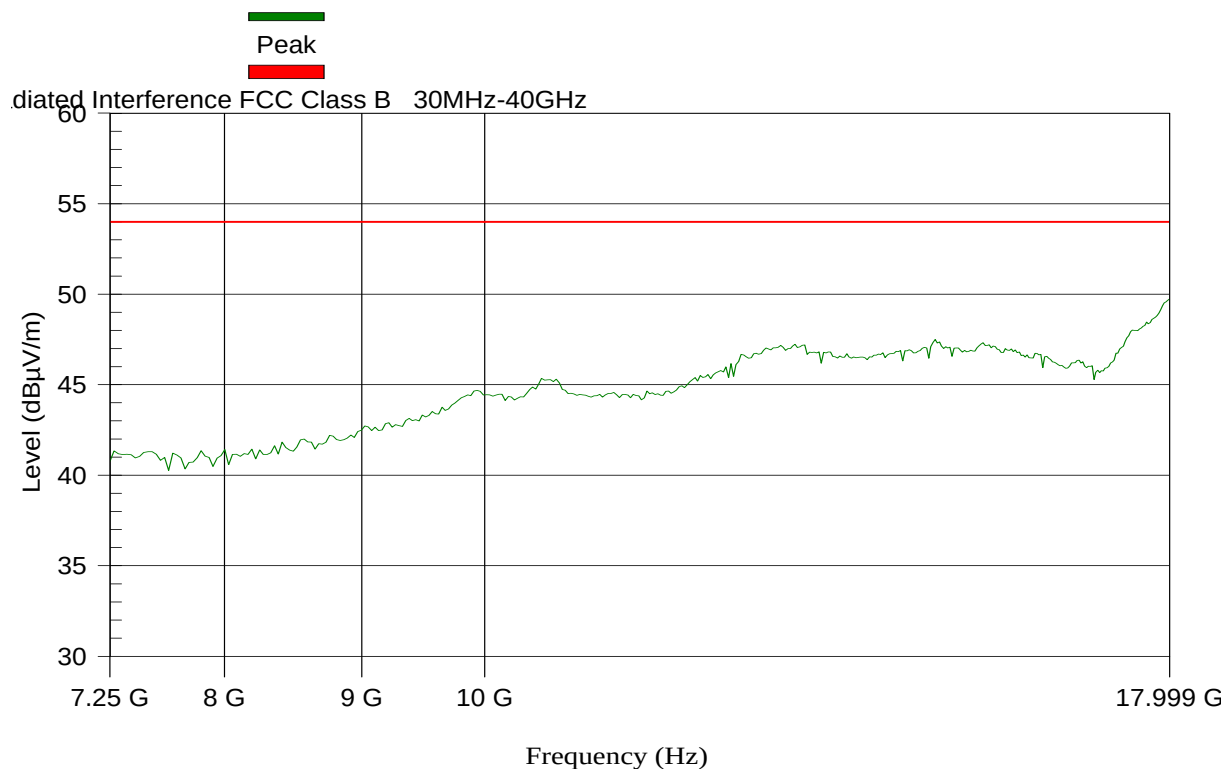
Test Results Plot No 299

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 12:57:37 PM

AVG; DISH ANTENNA; LOW 5745 MHz BW=40 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.7		0	1	H

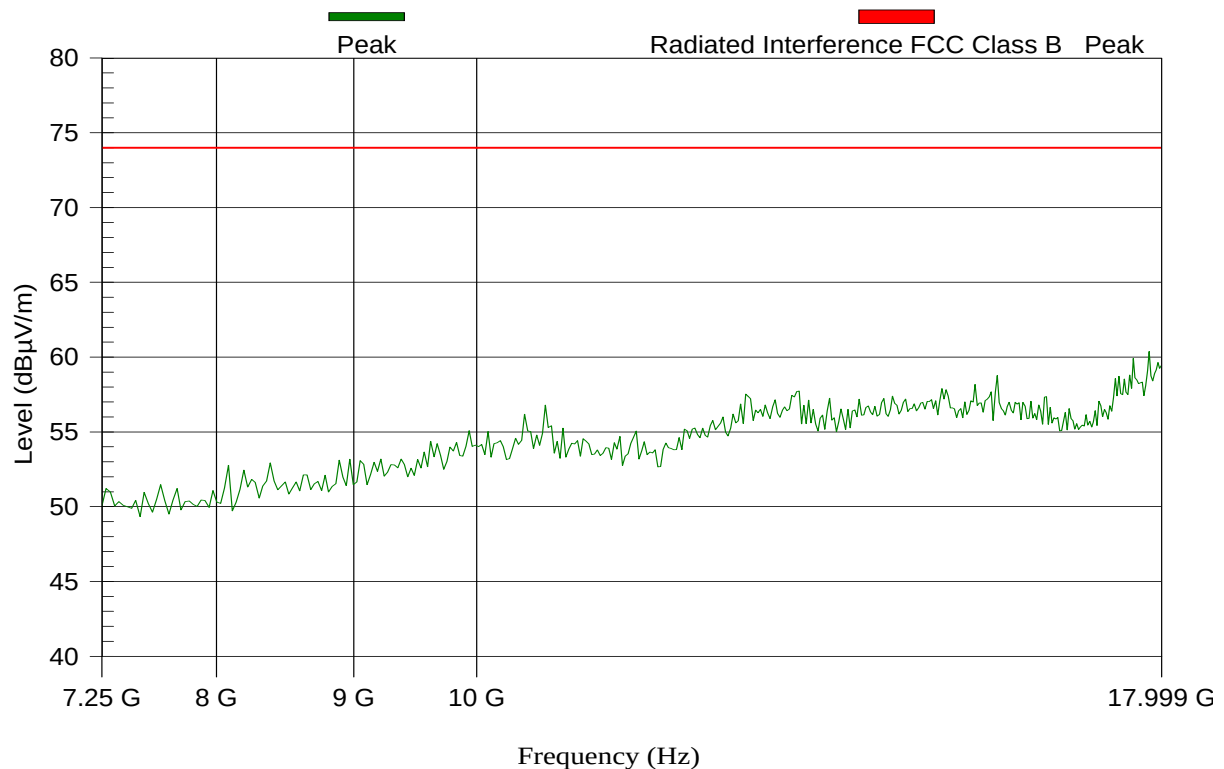
Test Results Plot No 300

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 12:59:32 PM

PEAK; DISH ANTENNA; LOW 5745 MHz BW=40 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

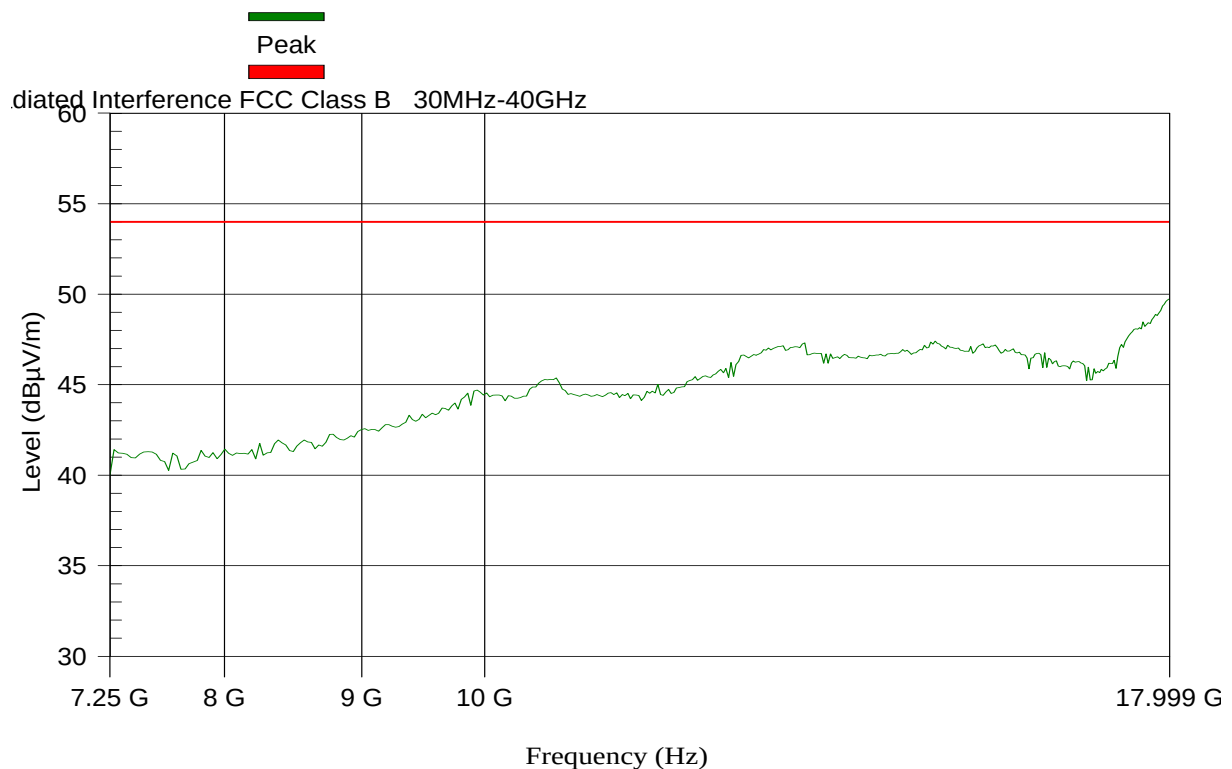
Test Results Plot No 301

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 1:03:09 PM

AVG; DISH ANTENNA; MID 5790 MHz BW=40 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17999	49.7		0	1.6	H

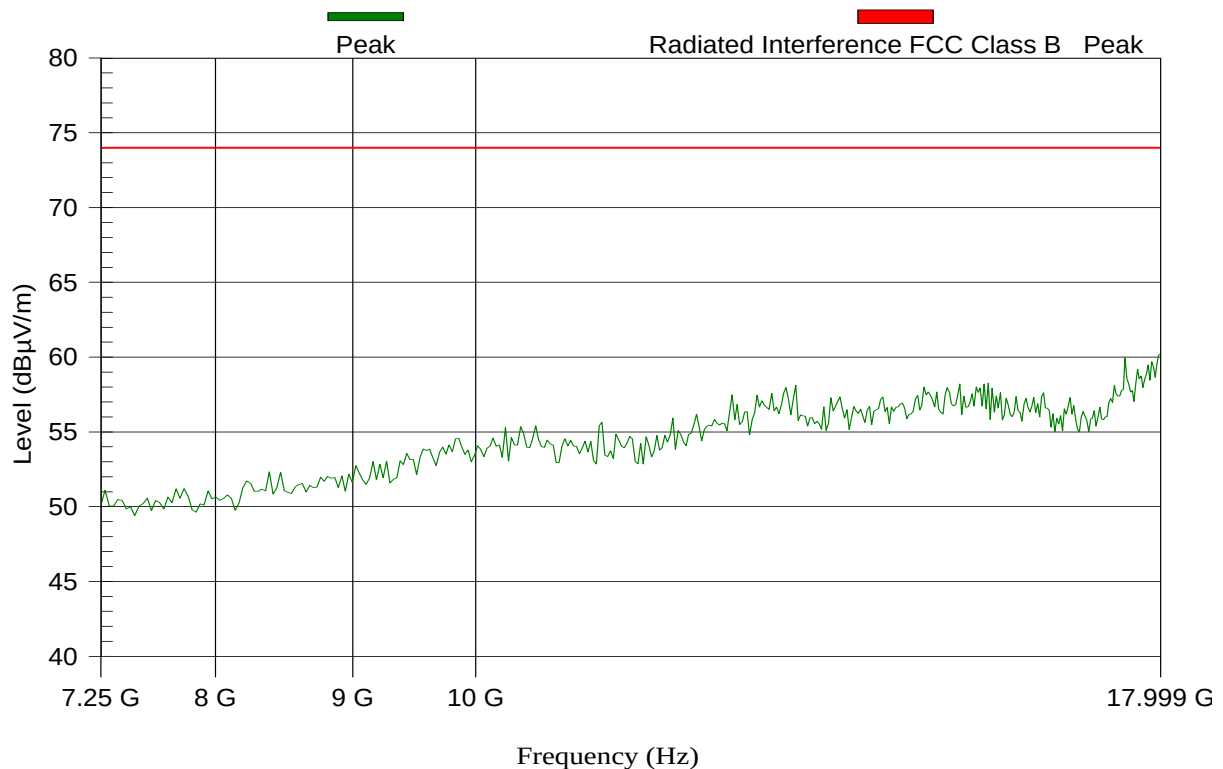
Test Results Plot No 302

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 1:08:36 PM

PEAK; DISH ANTENNA; MID 5790 MHz BW=40 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

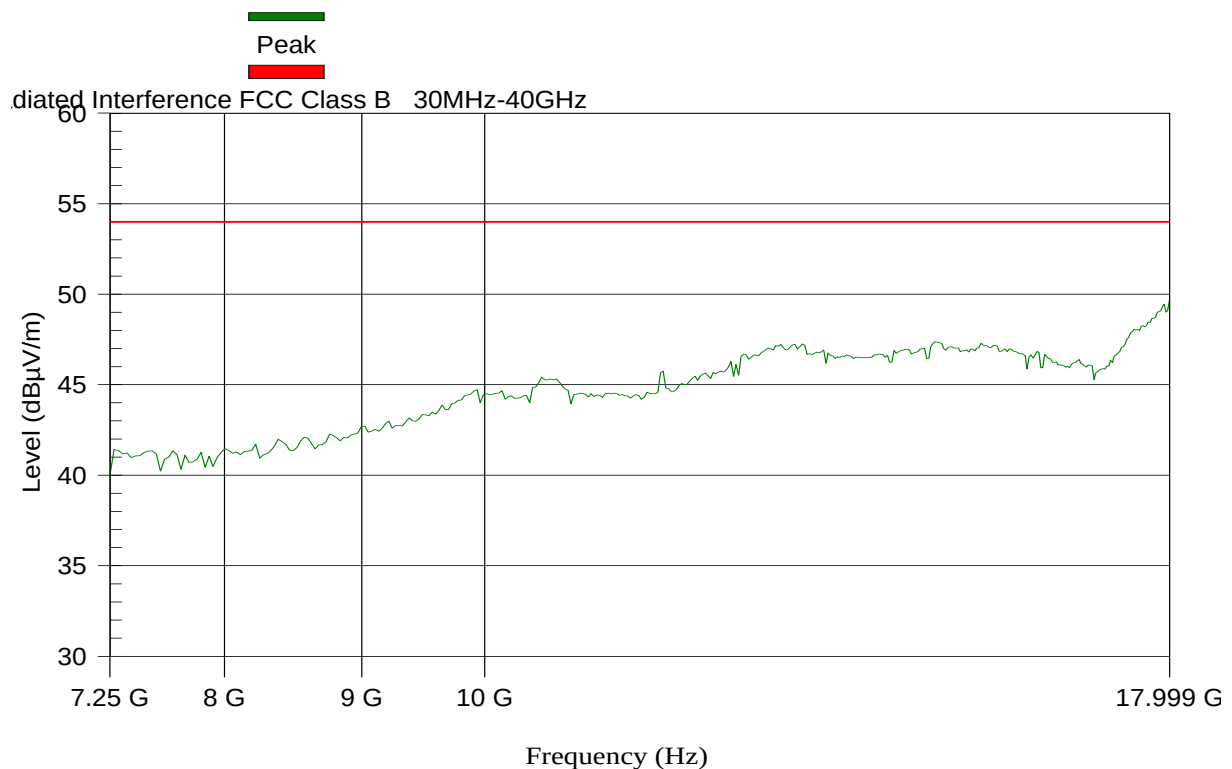
Test Results Plot No 303

7.25-18 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 14.04 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 1:22:02 PM

AVG; DISH ANTENNA; HIGH 5830 MHz BW=40 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17972.127	49.8		0	1.6	H

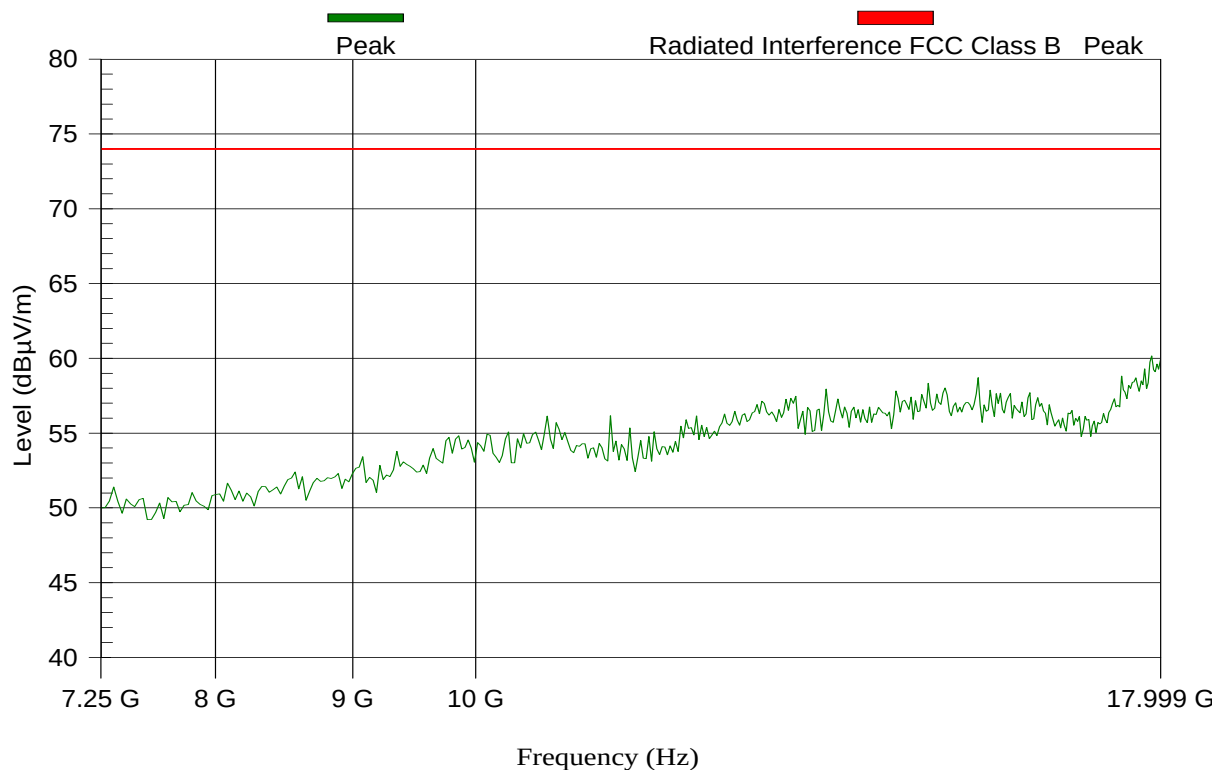
Test Results Plot No 304

7.25-18 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 53.75 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Tuesday, February 02, 2010 1:10:36 PM

PEAK; DISH ANTENNA; HIGH 5830 MHz BW=40 MHz; USING LPF



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

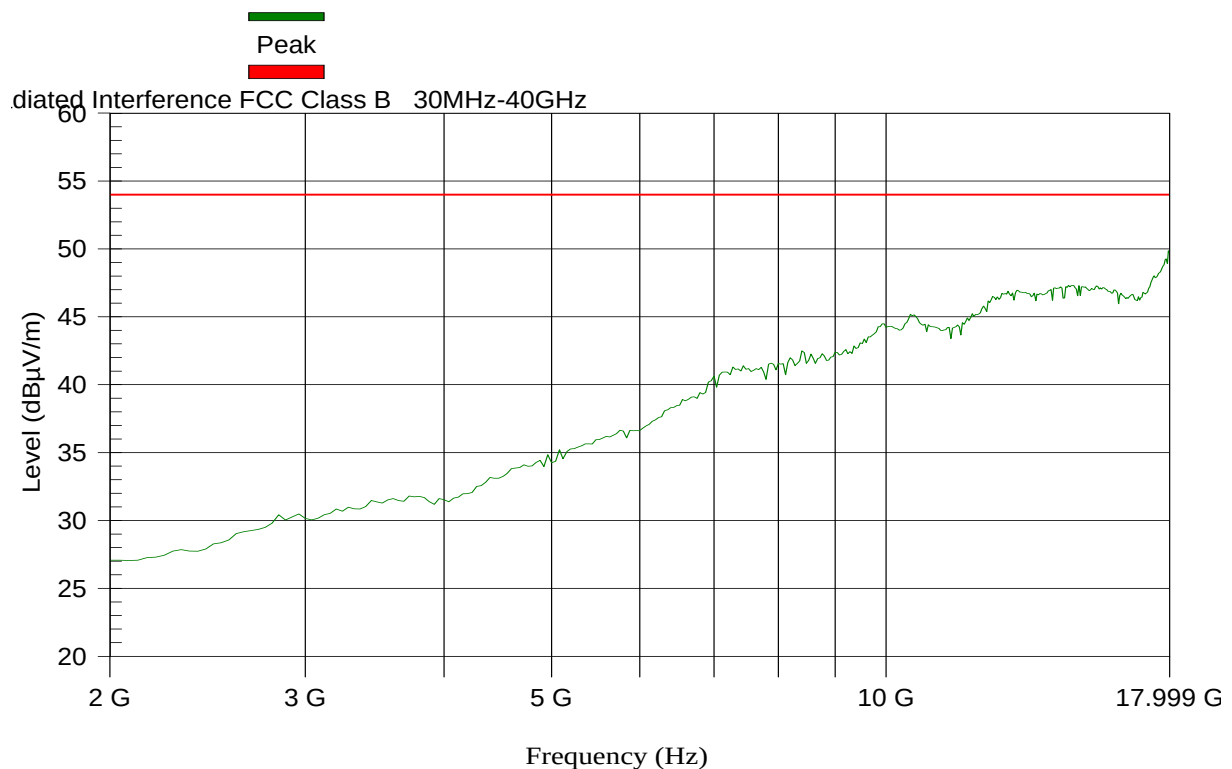
Test Results Plot No 305

2-18 GHz AVG SBY Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 Hz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto: 20.9 s
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Wednesday, February 03, 2010

STANDBY MODE DISH ANTENNA



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	17959.002	49.9		0	1	H

5.10.8. 18-26.5 GHz-DISH

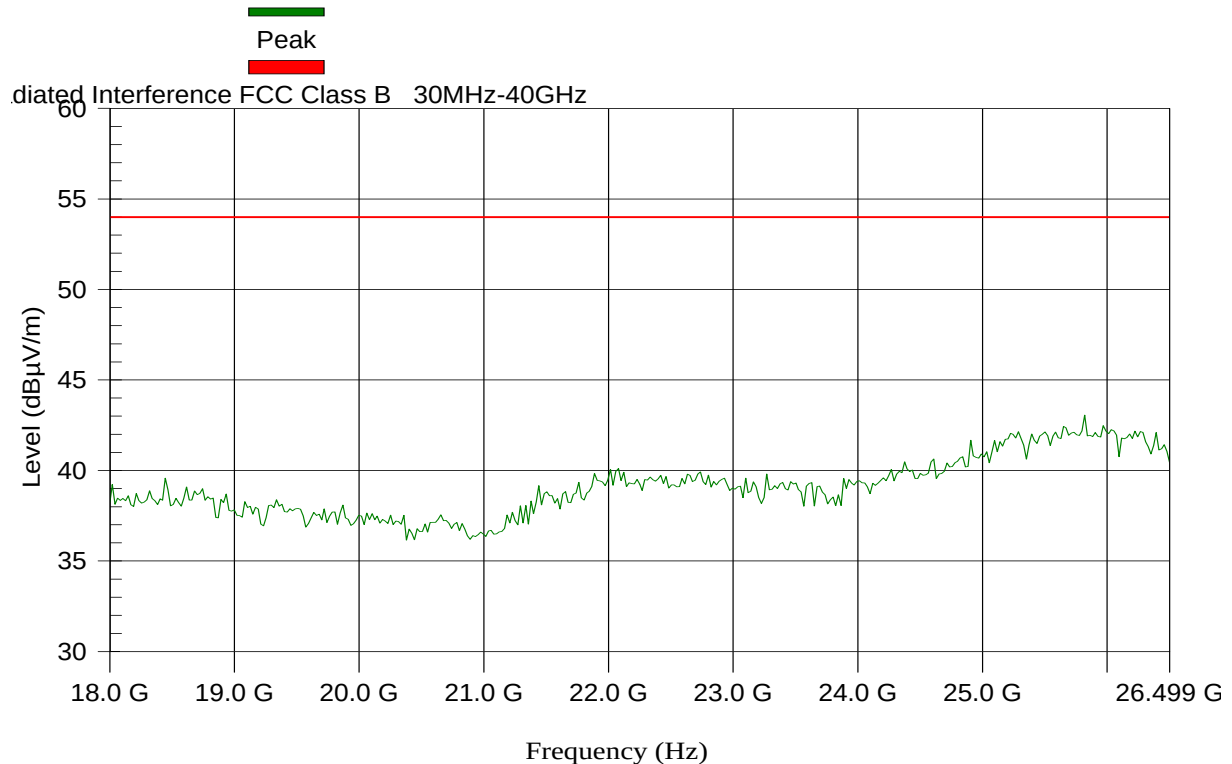
Test Results Plot No 306

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:29:59 PM

AVG; DISH ANTENNA; LOW 5730 MHz BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

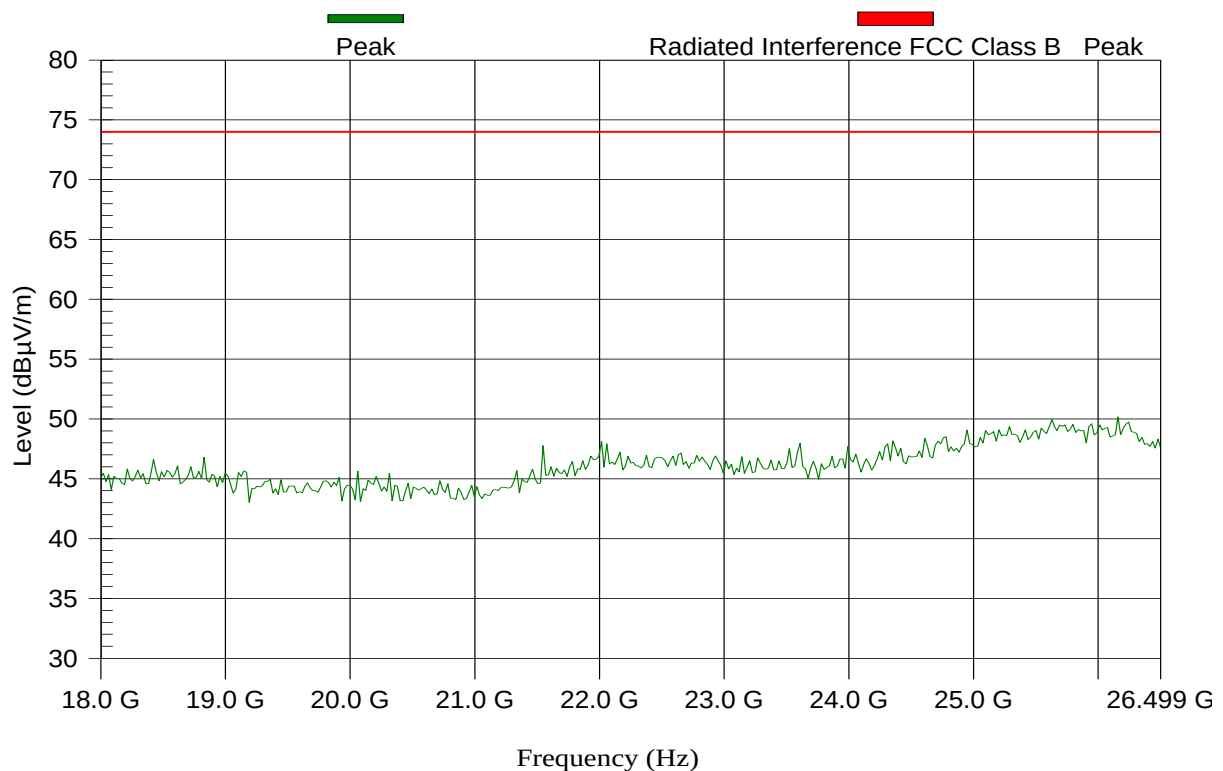
Test Results Plot No 307

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:27:30 PM

PEAK; DISH ANTENNA; LOW 5730 MHz BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

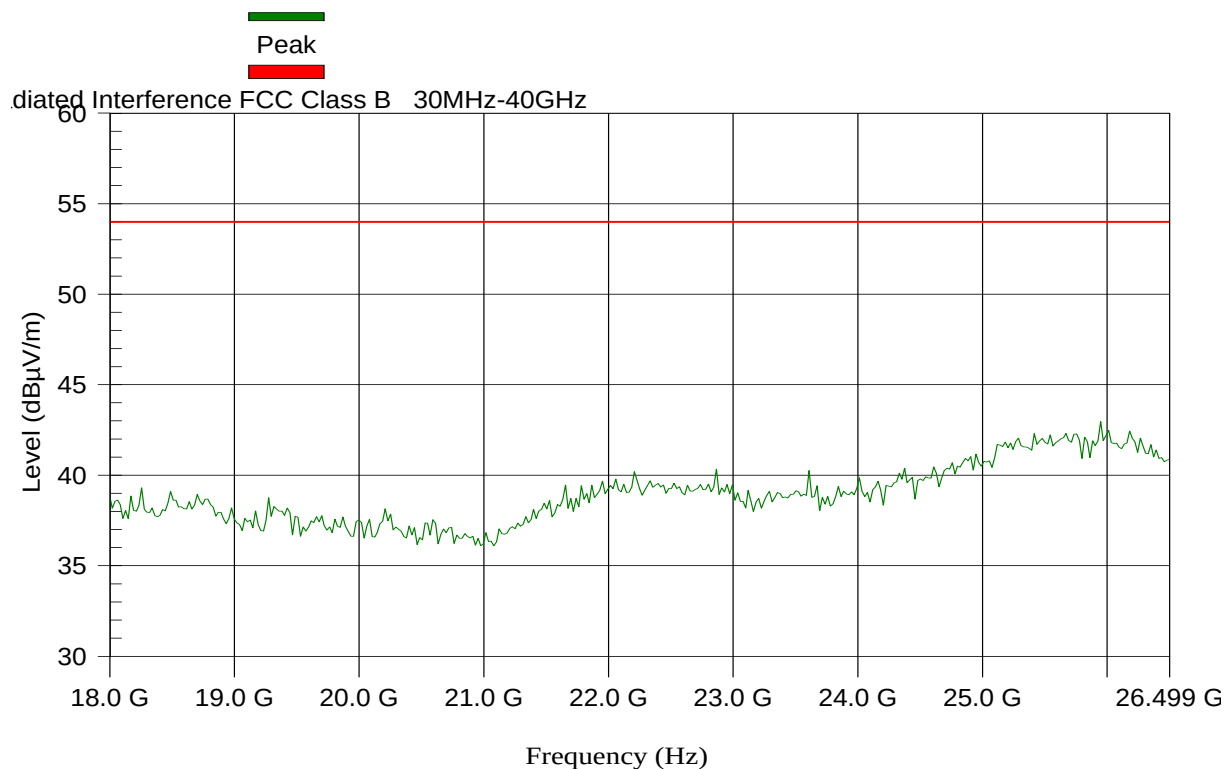
Test Results Plot No 308

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:32:15 PM

AVG; DISH ANTENNA; MID 5790 MHz BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

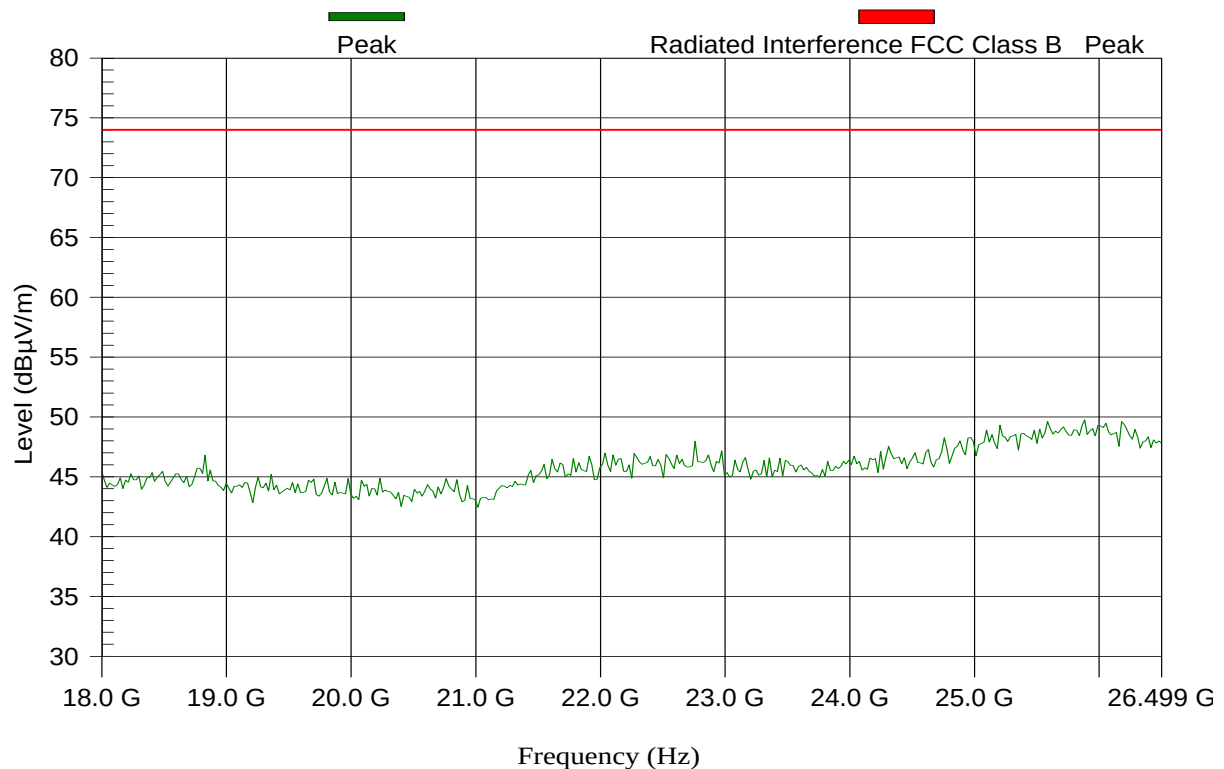
Test Results Plot No 309

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:33:57 PM

PEAK; DISH ANTENNA; MID 5790 MHz BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

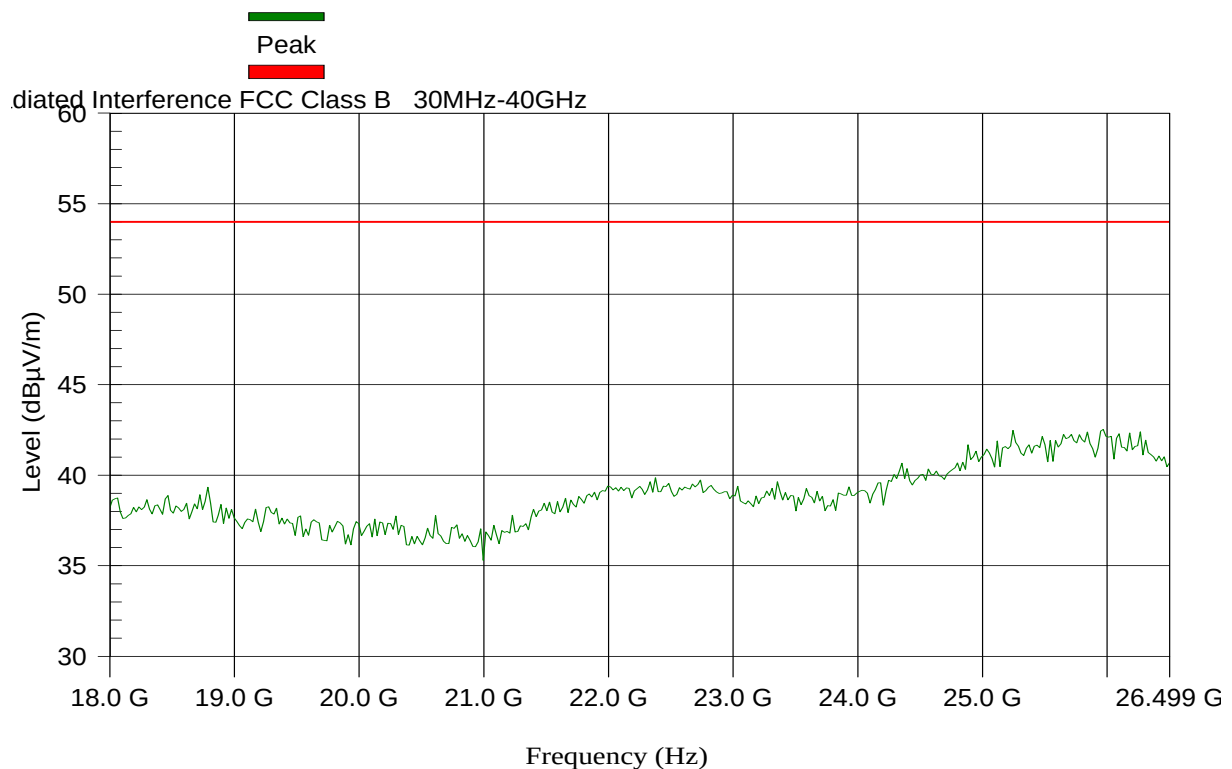
Test Results Plot No 310

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:36:02 PM

AVG; DISH ANTENNA; HIGH 5845 MHz BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

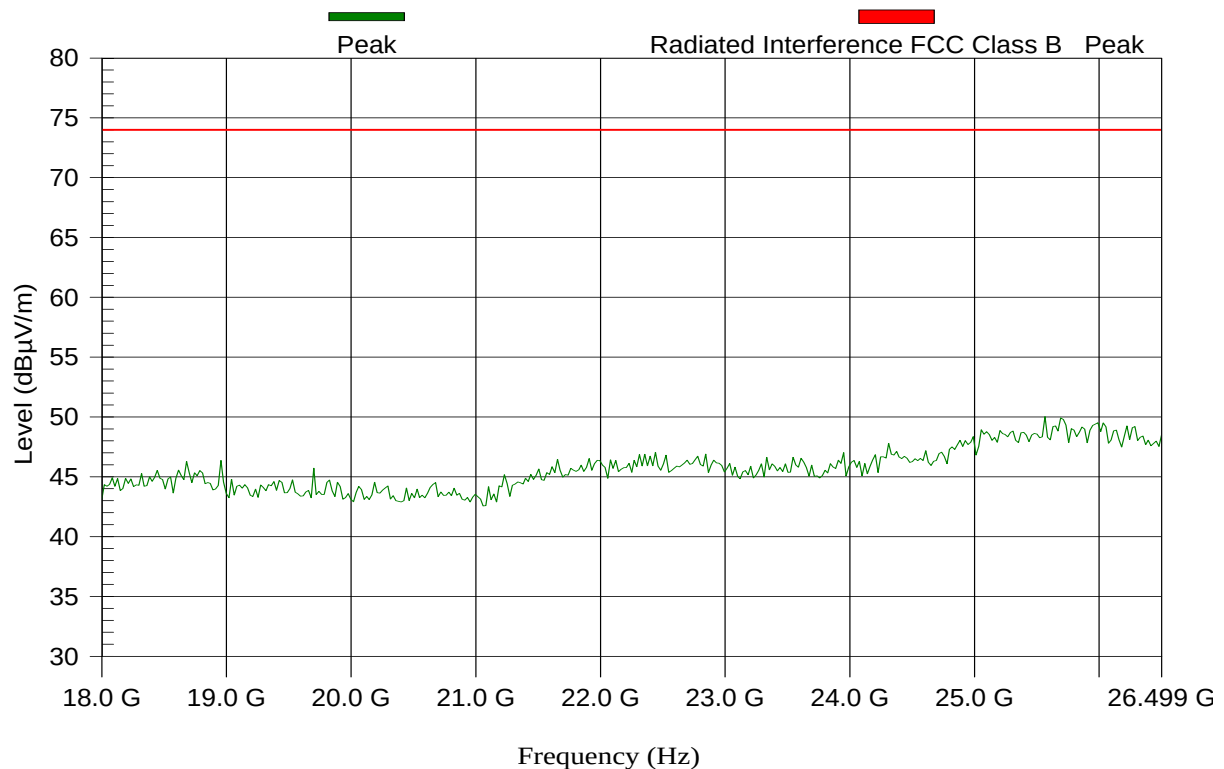
Test Results Plot No 311

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:39:52 PM

PEAK; DISH ANTENNA; HIGH 5845 MHz BW=5 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

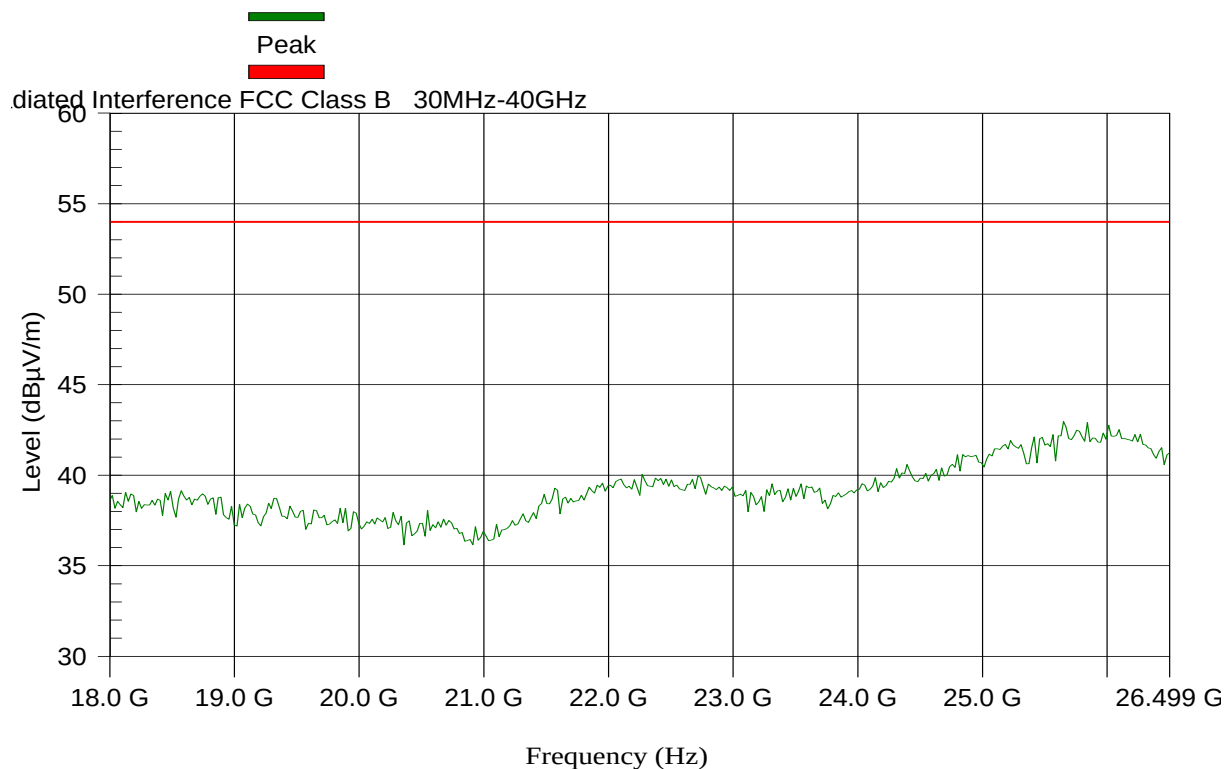
Test Results Plot No 312

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:23:31 PM

AVG; DISH ANTENNA; LOW 5735 MHz BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

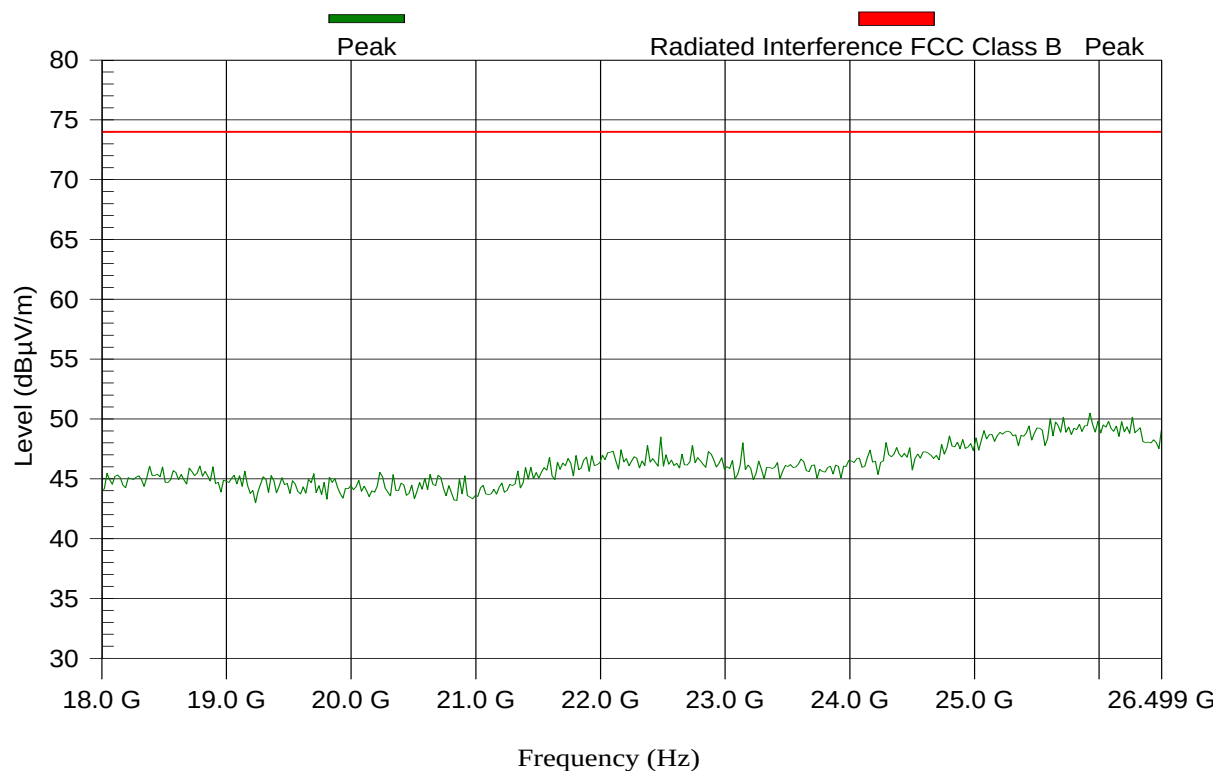
Test Results Plot No 313

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dBμV
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:25:13 PM

PEAK; DISH ANTENNA; LOW 5735 MHz BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

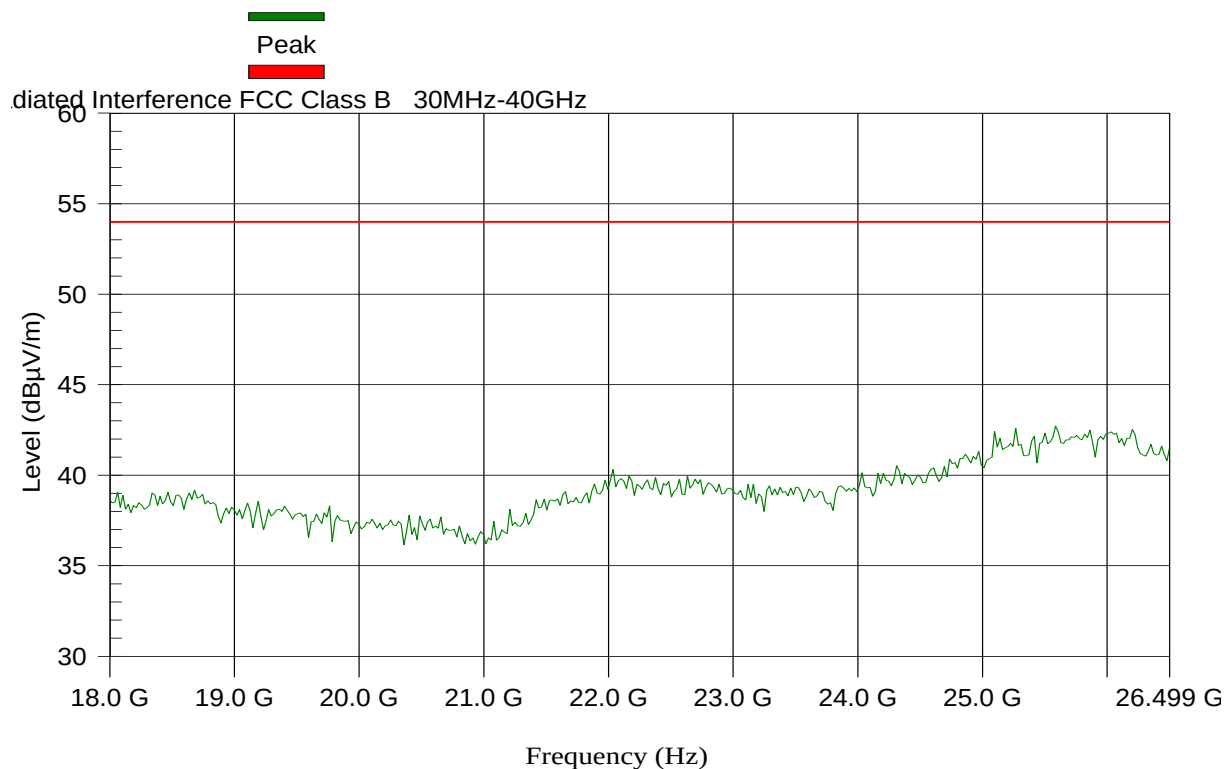
Test Results Plot No 314

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:21:09 PM

AVG; DISH ANTENNA; MID 5790 MHz BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

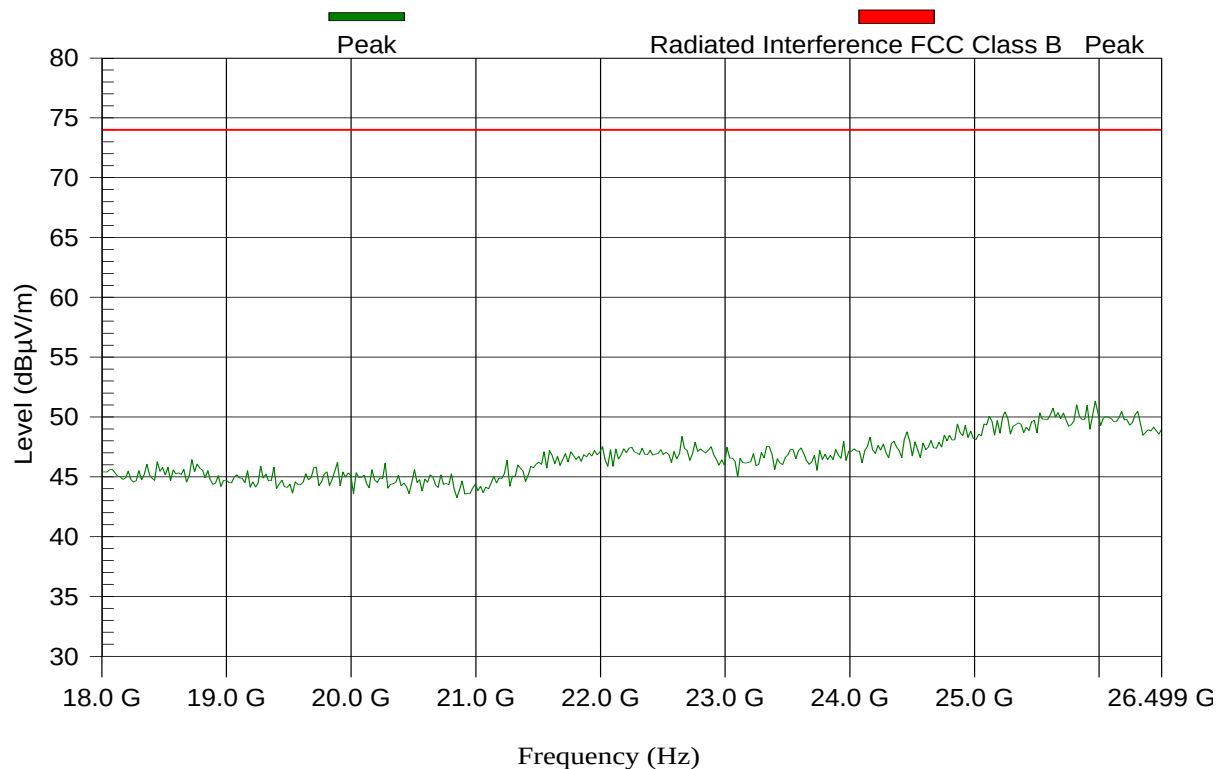
Test Results Plot No 315

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:18:48 PM

PEAK; DISH ANTENNA; MID 5790 MHz BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

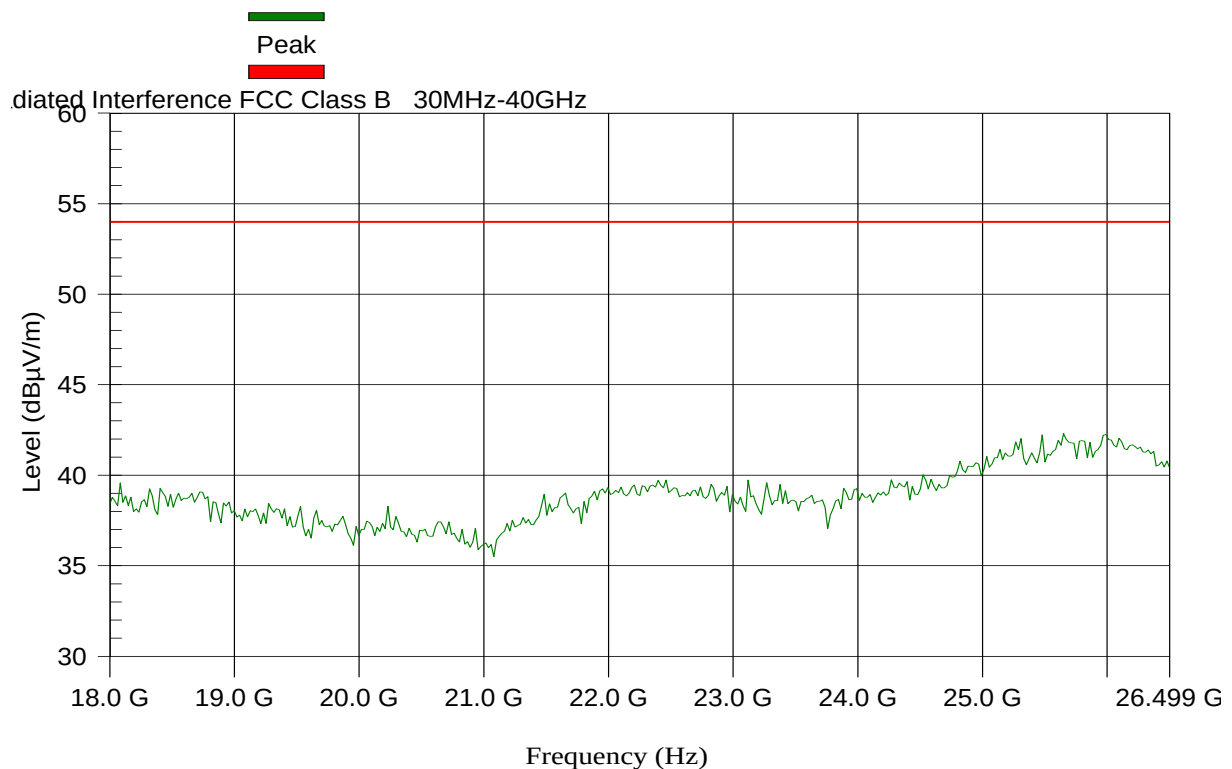
Test Results Plot No 316

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:14:48 PM

AVG; DISH ANTENNA; HIGH 5840 MHz BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

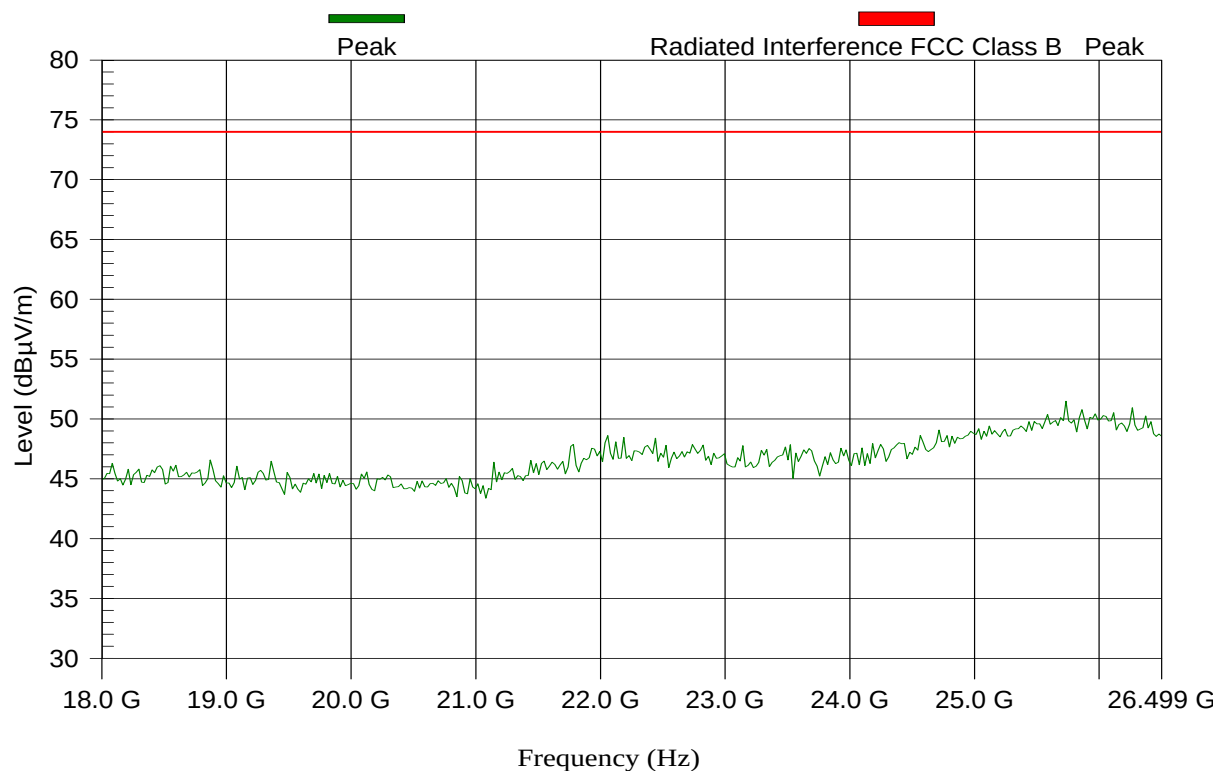
Test Results Plot No 317

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dBμV
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:16:46 PM

PEAK; DISH ANTENNA; HIGH 5840 MHz BW=10 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

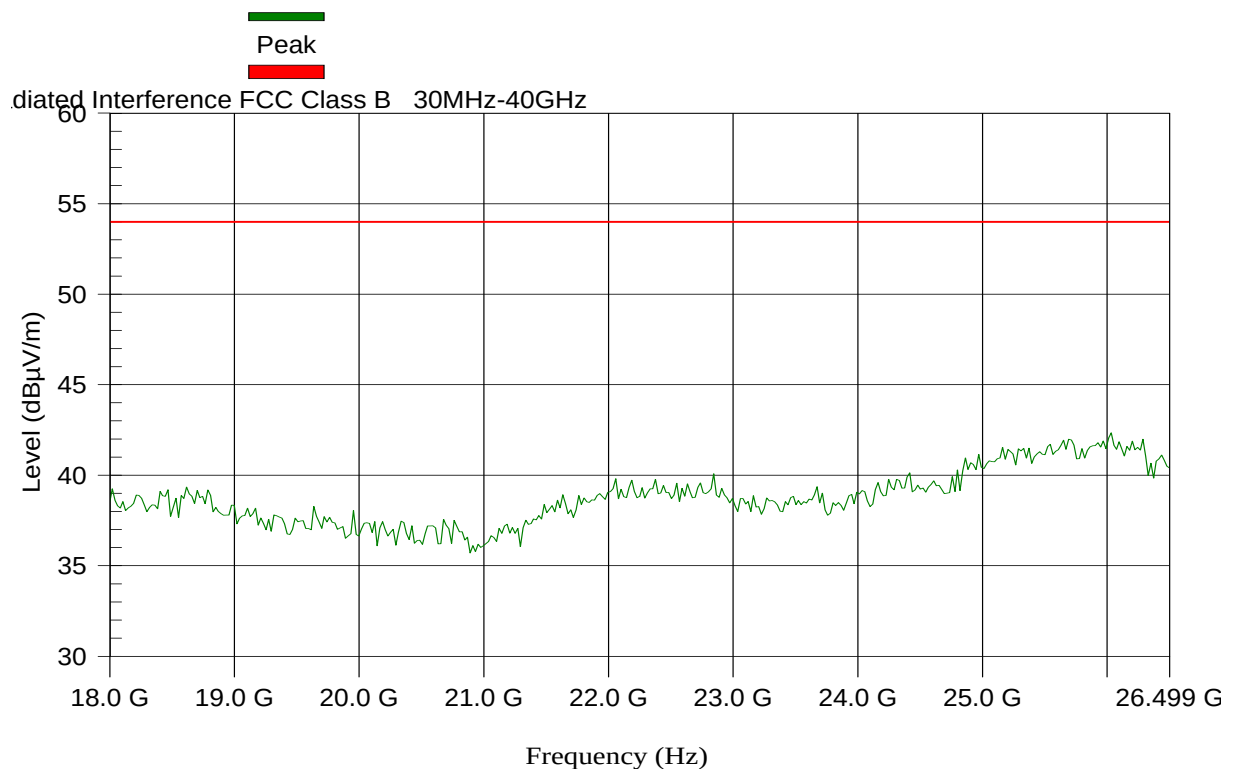
Test Results Plot No 318

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 1:59:18 PM

AVG; DISH ANTENNA; LOW 5735 MHz BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

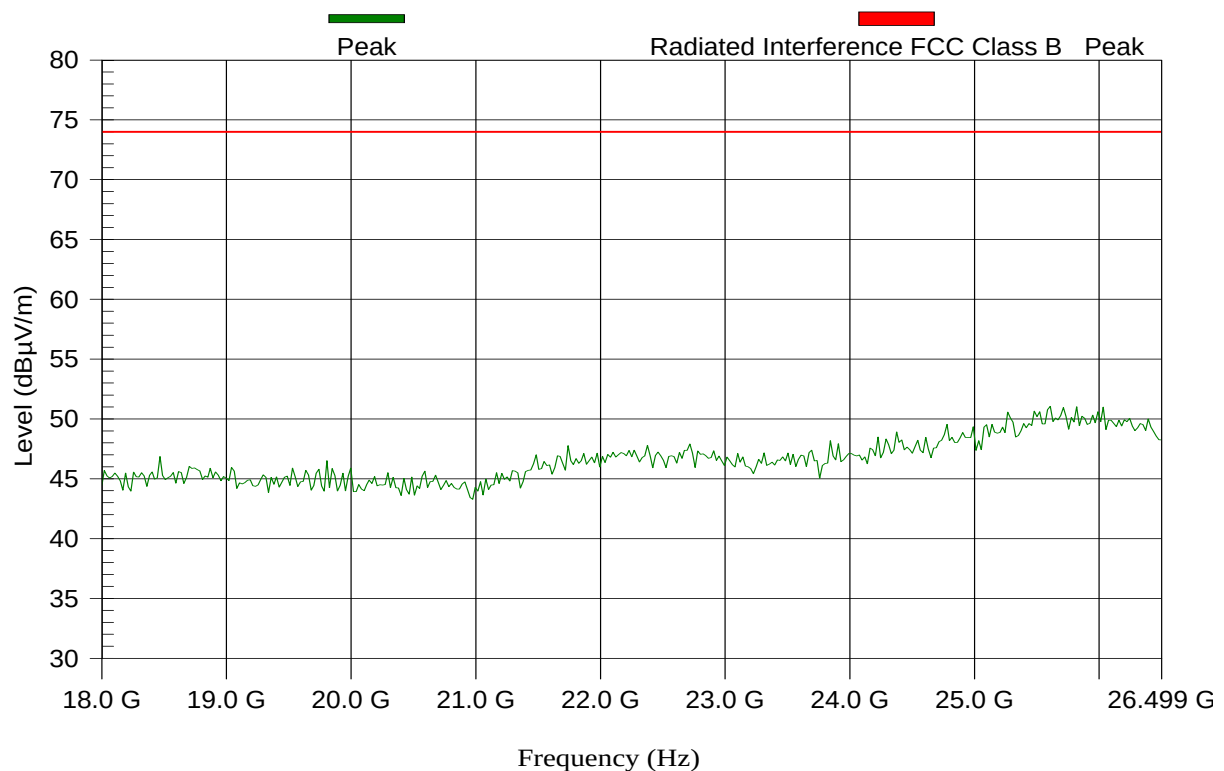
Test Results Plot No 319

18-26.5GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:01:10 PM

PEAK; DISH ANTENNA; LOW 5735 MHz BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

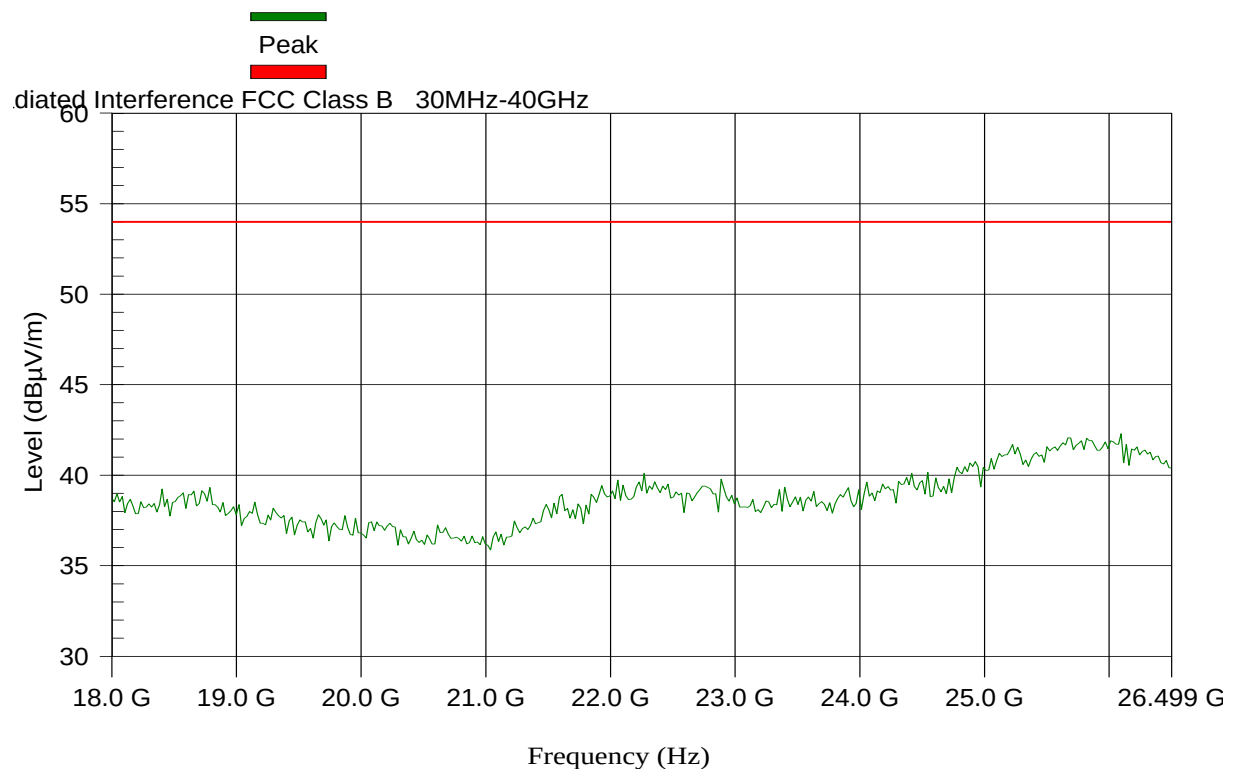
Test Results Plot No 320

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:02:53 PM

AVG; DISH ANTENNA; MID 5790 MHz BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

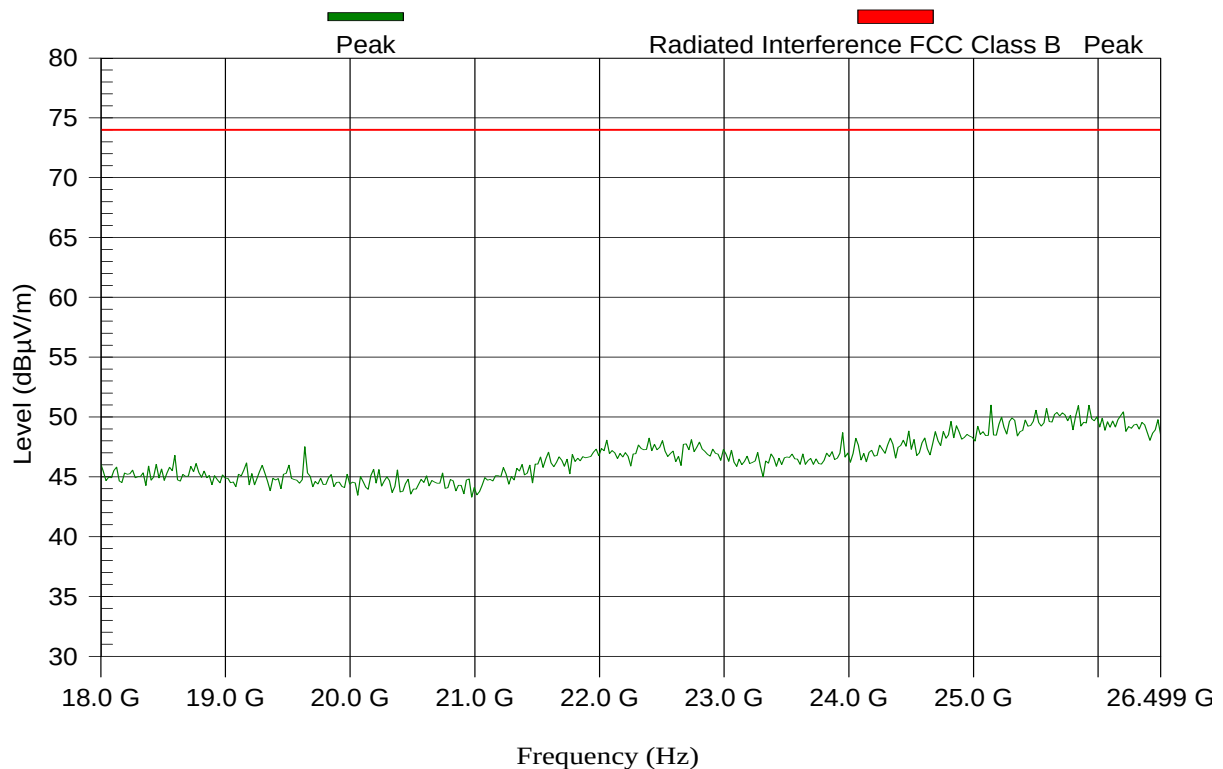
Test Results Plot No 321

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:05:45 PM

PEAK; DISH ANTENNA; MID 5790 MHz BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

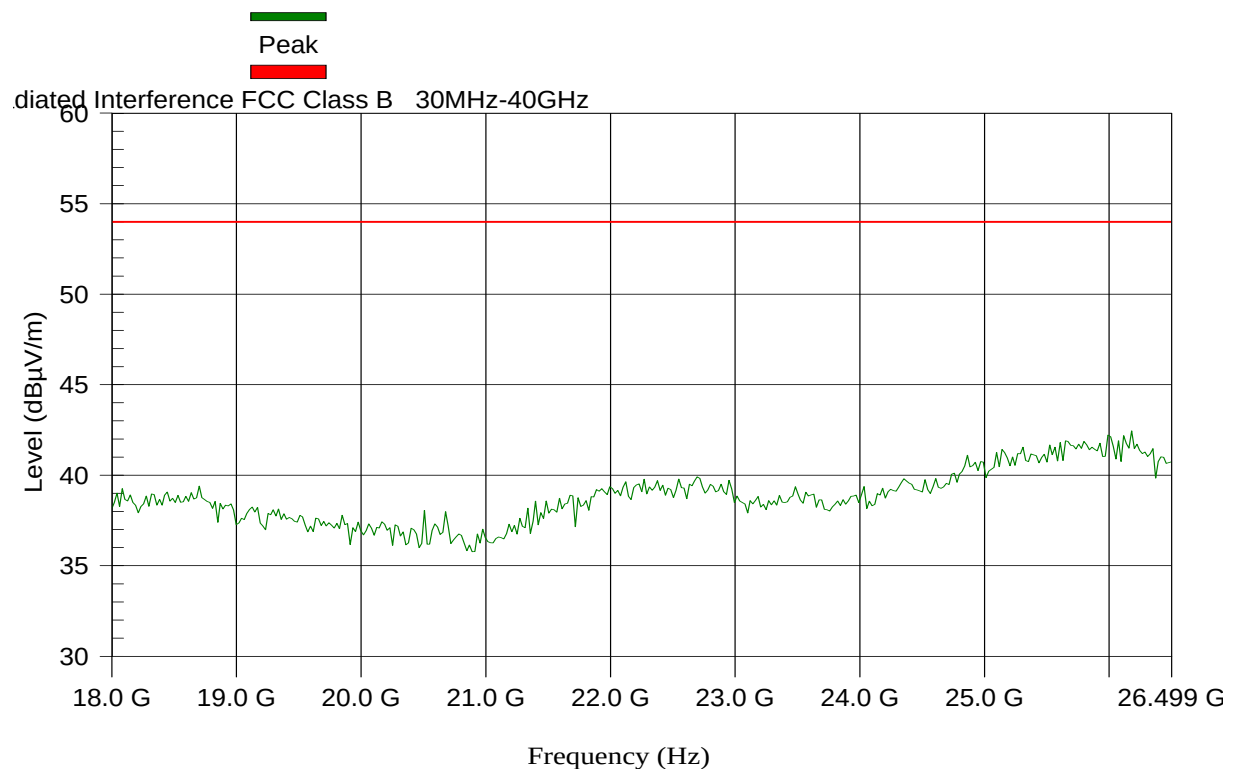
Test Results Plot No 322

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:12:43 PM

AVG; DISH ANTENNA; HIGH 5840 MHz BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

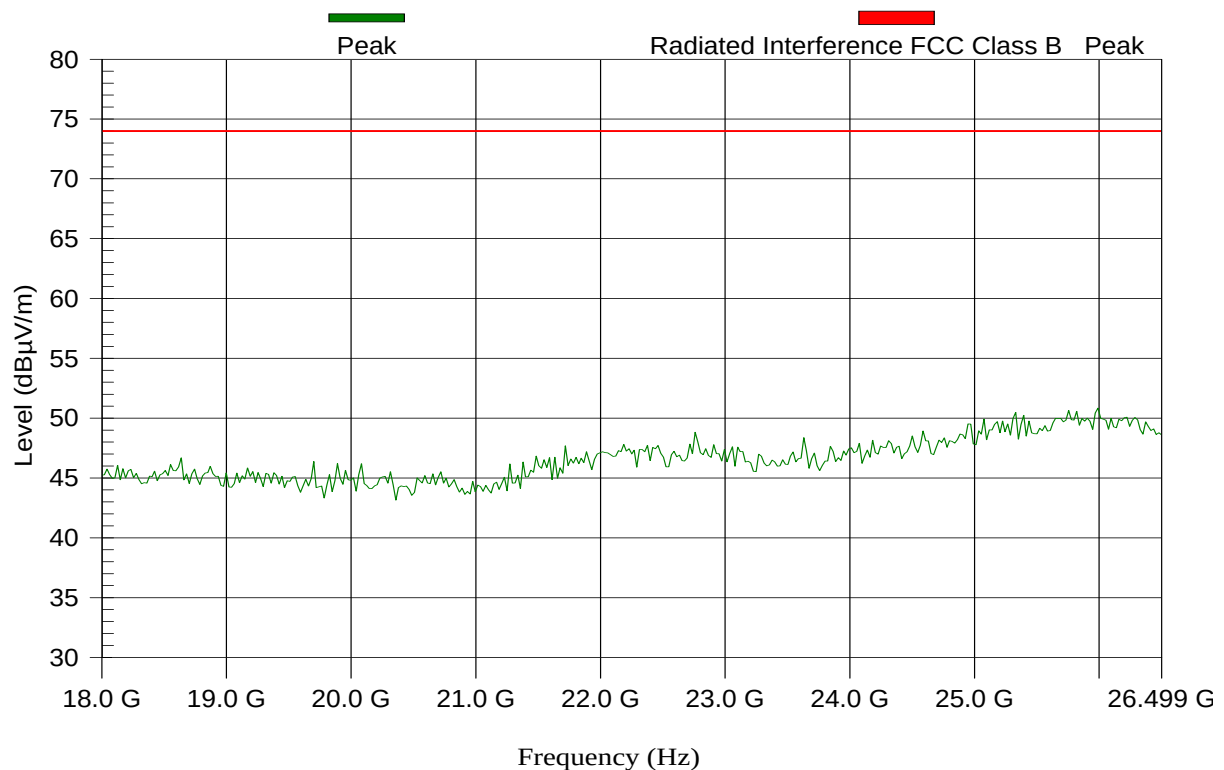
Test Results Plot No 323

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dBμV
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 2:07:30 PM

PEAK; DISH ANTENNA; HIGH 5840 MHz BW=20 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

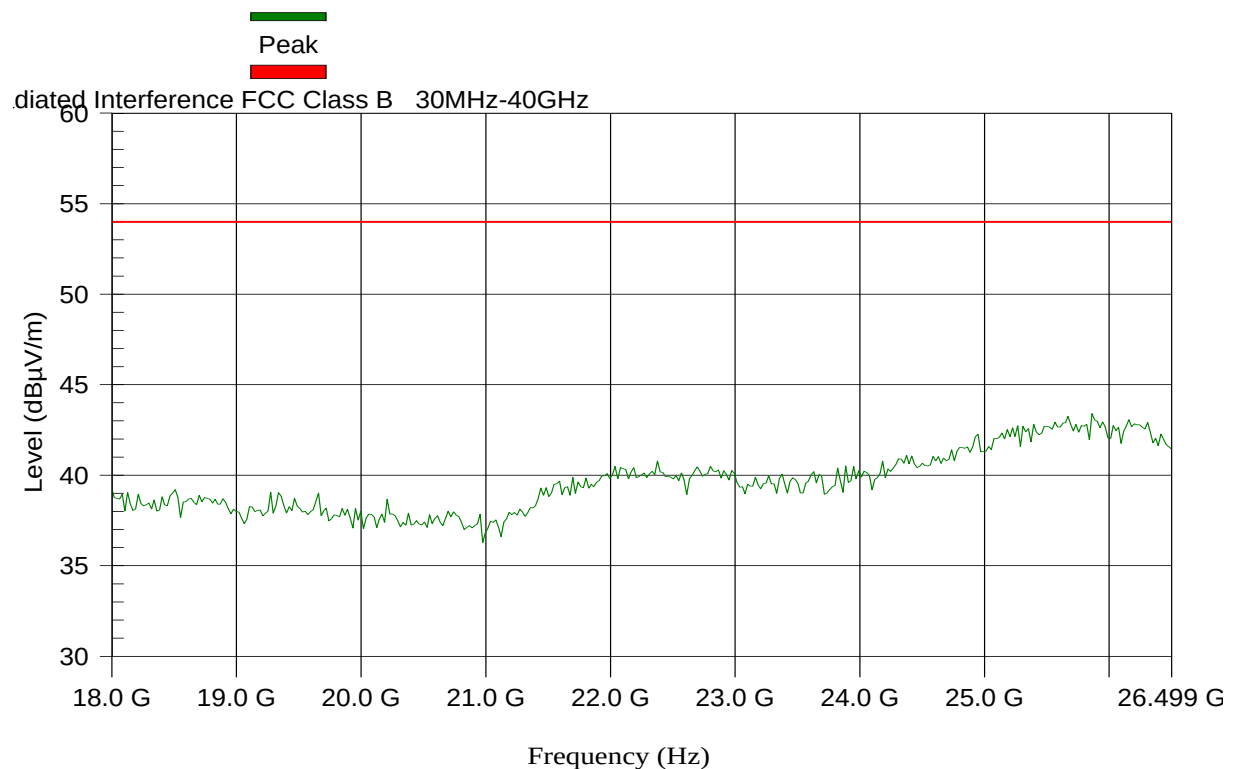
Test Results Plot No 324

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 1:55:12 PM

AVG; DISH ANTENNA; LOW 5745 MHz BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

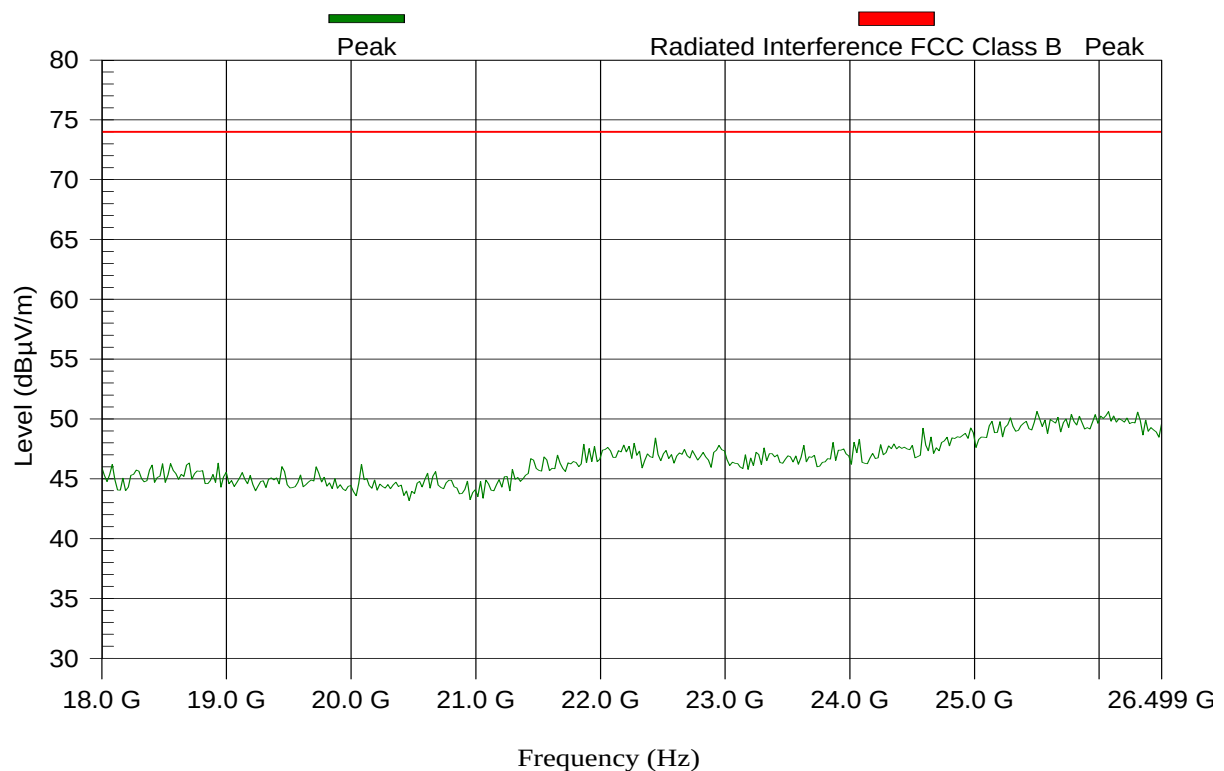
Test Results Plot No 325

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 1:57:08 PM

PEAK; DISH ANTENNA; LOW 5745 MHz BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

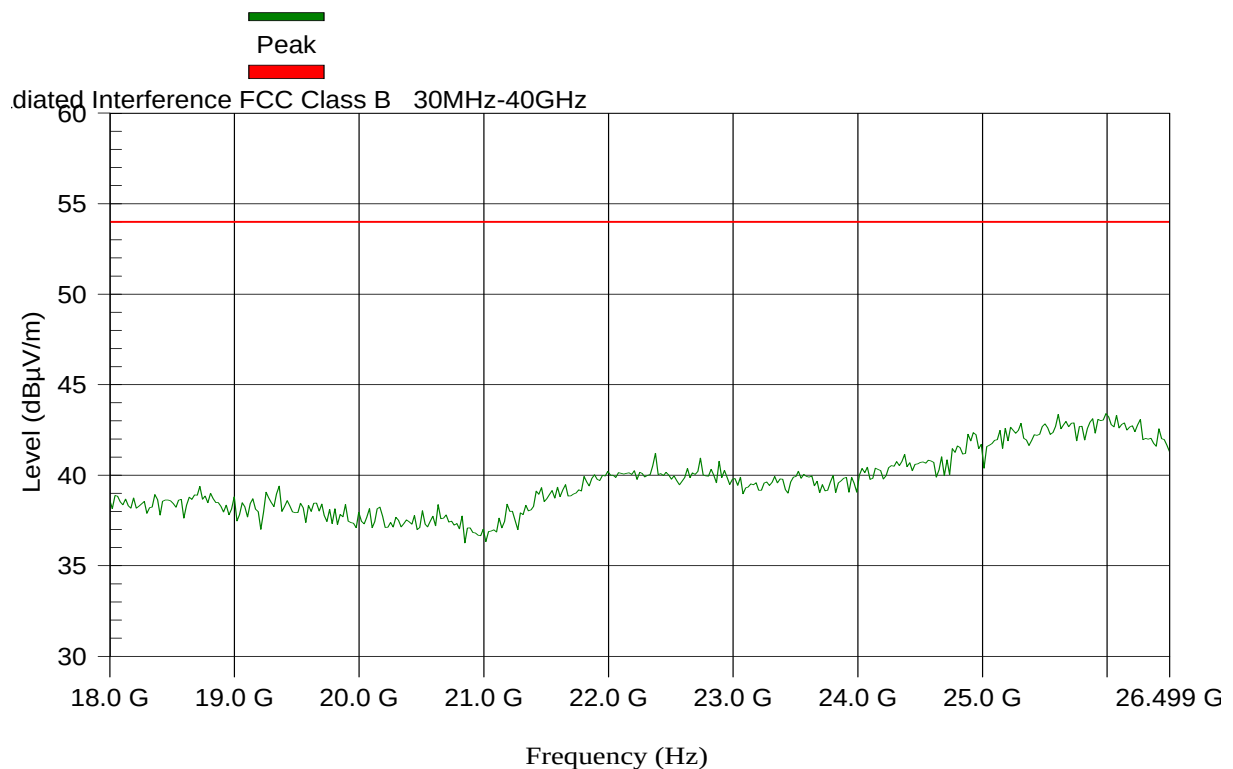
Test Results Plot No 326

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 1:53:27 PM

AVG; DISH ANTENNA; MID 5790 MHz BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

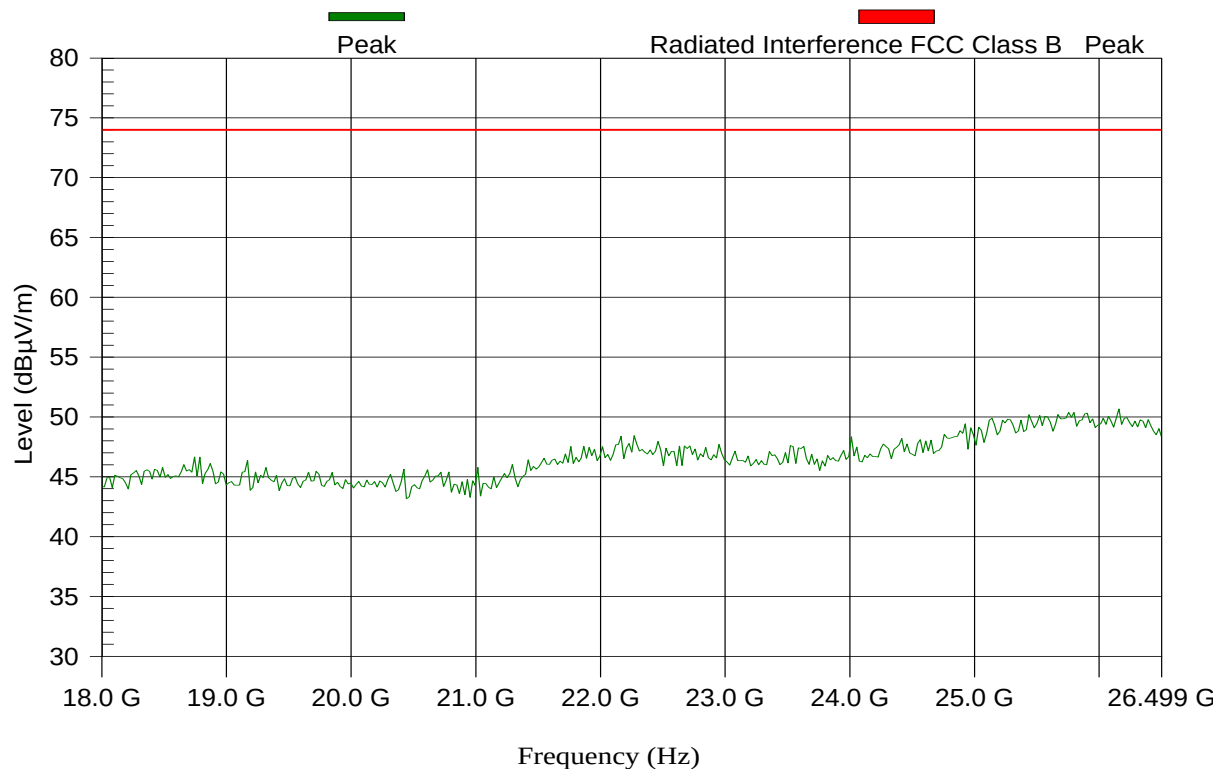
Test Results Plot No 327

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 1:51:41 PM

PEAK; DISH ANTENNA; MID 5790 MHz BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

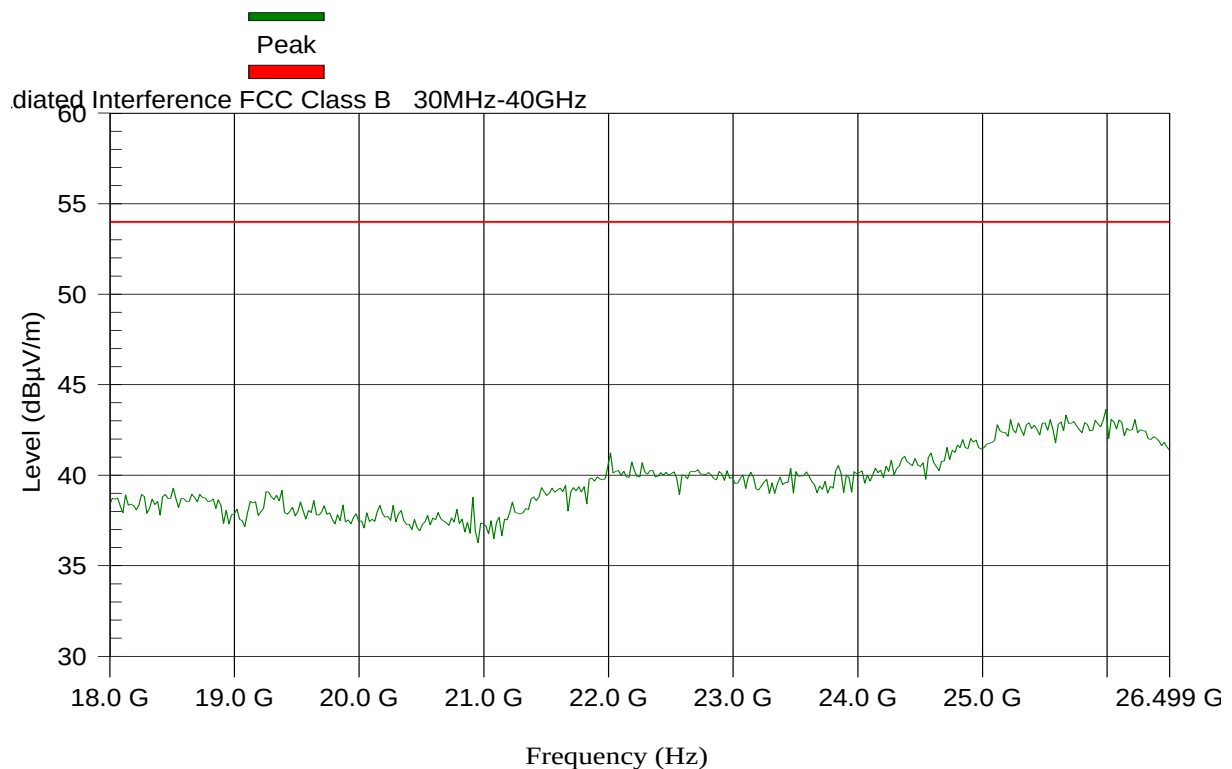
Test Results Plot No 328

18-26.5 GHz AVG TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dB μ V
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	30 kHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 370.67 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 1:49:48 PM

AVG; DISH ANTENNA; HIGH 5830 MHz BW=40 MHz



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

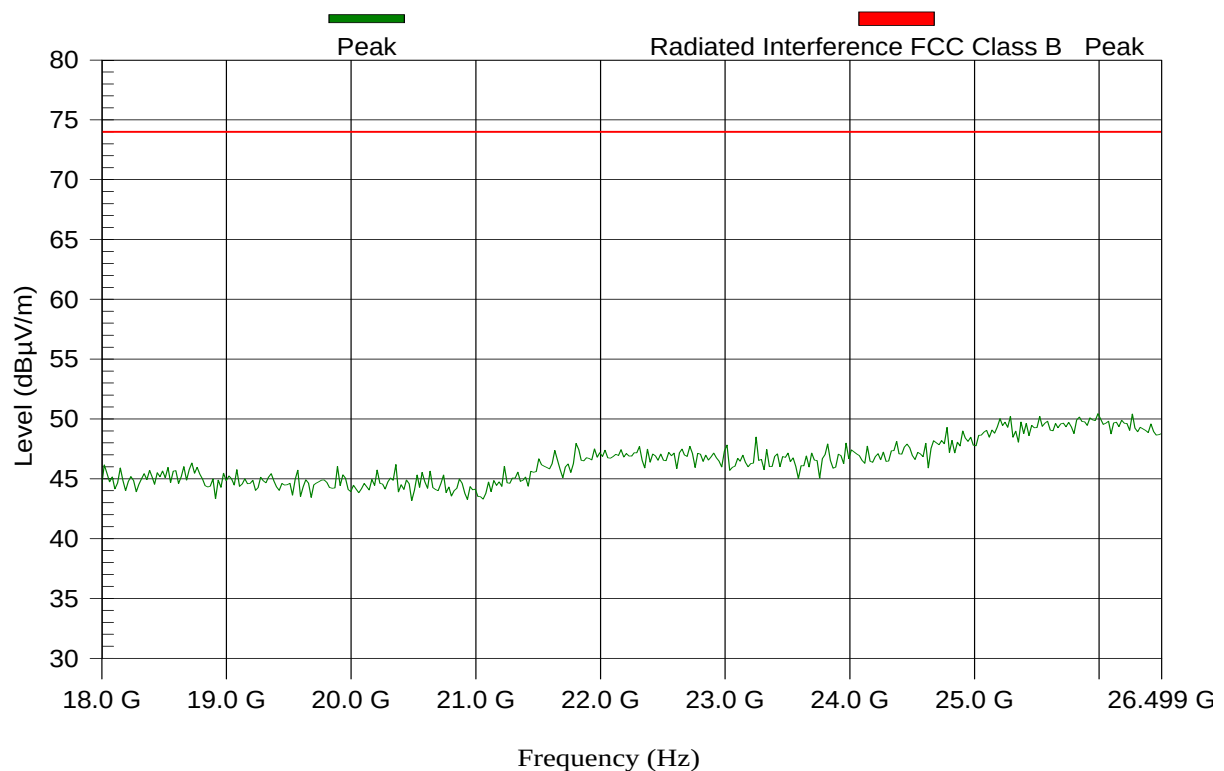
Test Results Plot No 329

18-26.5 GHz PEAK TX Mode Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir 3000/6000	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050c26fb1ca	Ref. Level:	Auto: 120 dBμV
Date of Test:	02.02.2010	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG1840 18-40GHz SER-1058	Sweep Time:	Auto: 84.99 ms
Polarization:	Horizontal and Vertical	Pre Amplifier	18-26.5GHz Pre Amplifier

TEST REMARKS: Tuesday, February 02, 2010 1:46:32 PM

PEAK; DISH ANTENNA; HIGH 5830 MHz BW=40 MHz



MAXIMUM RESULT DEVIATION:

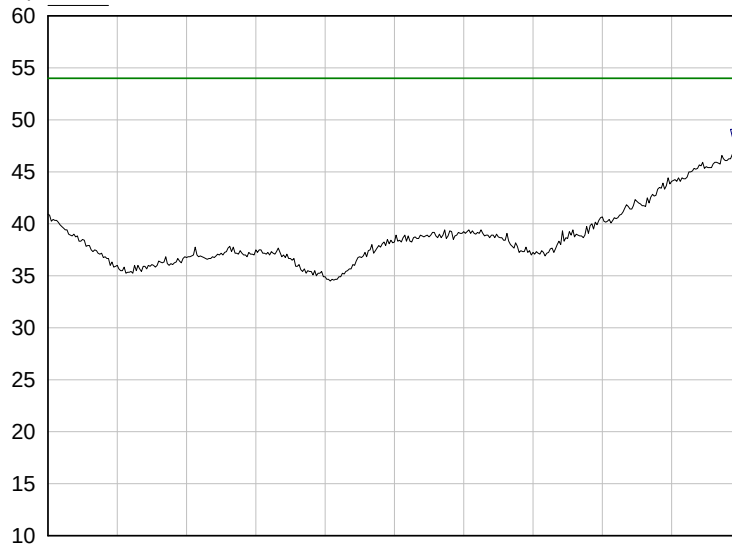
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

5.10.9. 26.5-40 GHz - DISH

dB Radiated Emission Out Of Band

(uV/m) Trace A



Dish_Antenna_LOW_5730MHz BW=5MHz_AVG

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 10 kHz

Sweep: 5.00 s

2/2/2010 4:03:12 PM

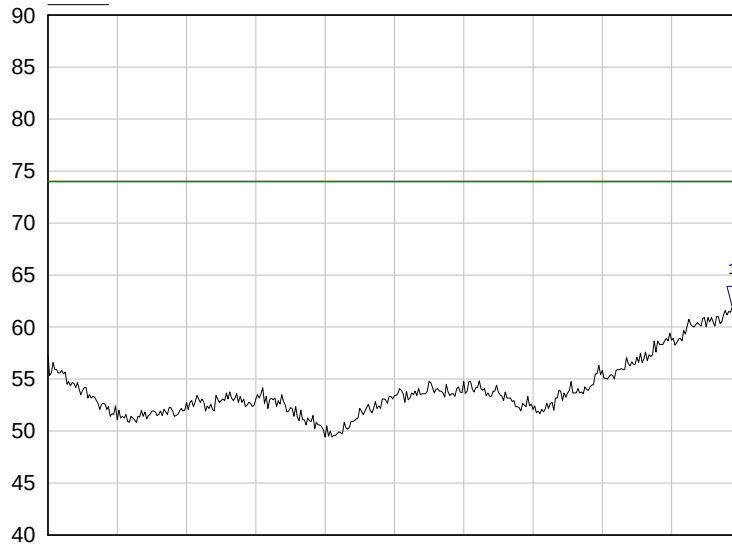
E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8988 GHz	47.08 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 330

dB Radiated Emission Out Of Band

(uV/m) Trace A



Dish_Antenna_Low_5730MHz BW=5MHz

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 3 MHz

Sweep: 5.00 s

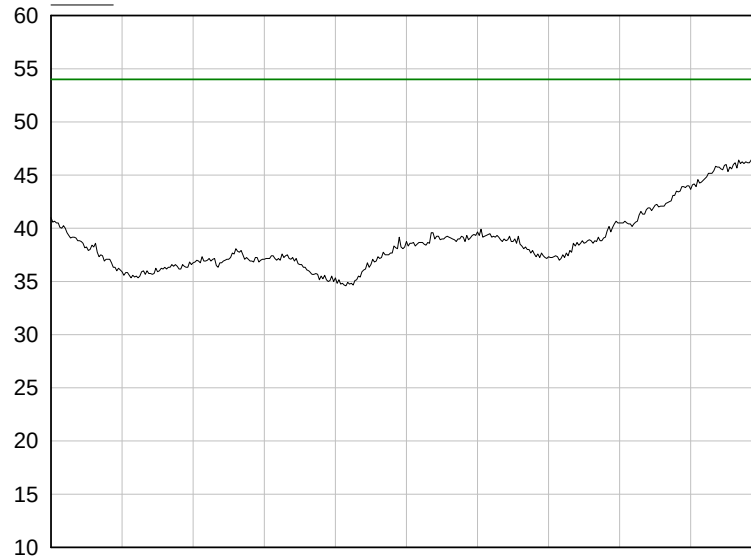
2/2/2010 3:20:32 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8313 GHz	61.90 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 331

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_MID_5790MHz BW=5MHz_AVG

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 10 kHz

Sweep: 5.00 s

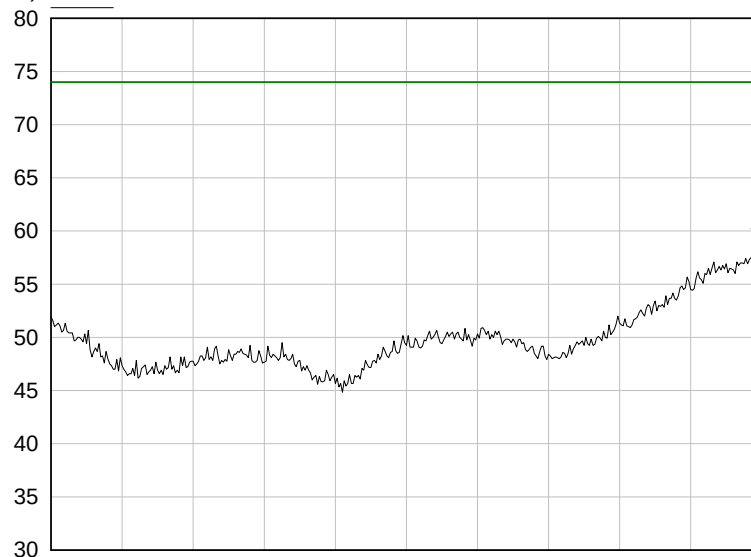
2/2/2010 4:04:26 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	47.23 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 332

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_MID_5790MHz BW=5MHz

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 3 MHz

Sweep: 5.00 s

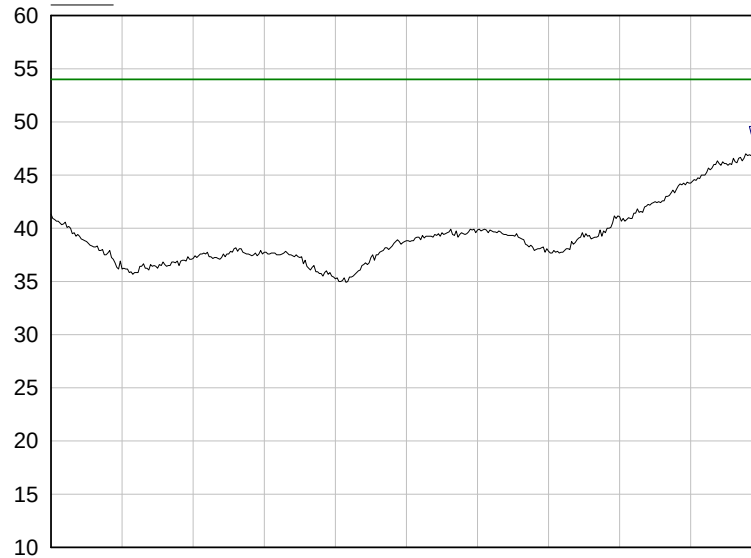
2/2/2010 3:24:47 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8988 GHz	58.21 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 333

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish _Antenna_HIGH_5845MHz BW=5MHz_AVG

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 10 kHz

Sweep: 5.00 s

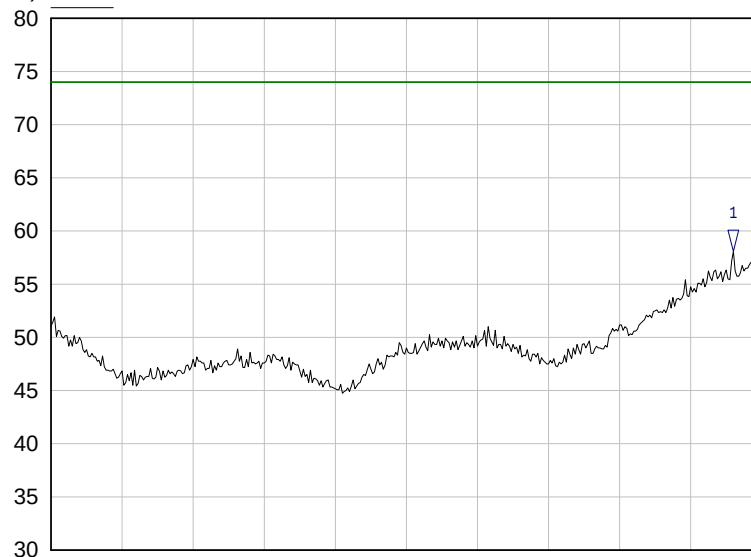
2/2/2010 4:09:27 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8650 GHz	47.55 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 334

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish _Antenna_High_5845MHz BW=5MHz

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 3 MHz

Sweep: 5.00 s

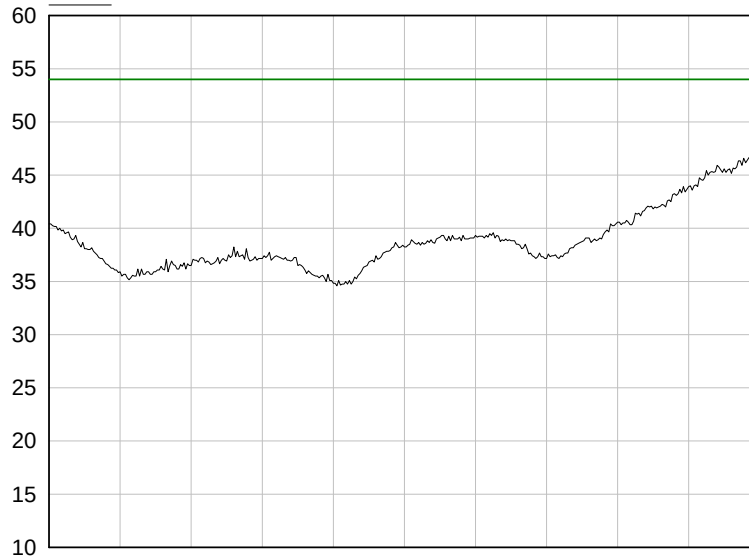
2/2/2010 3:29:38 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.4600 GHz	58.08 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 335

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_LOW_5735MHz BW=10MHz_AVG

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 10 kHz

Sweep: 5.00 s

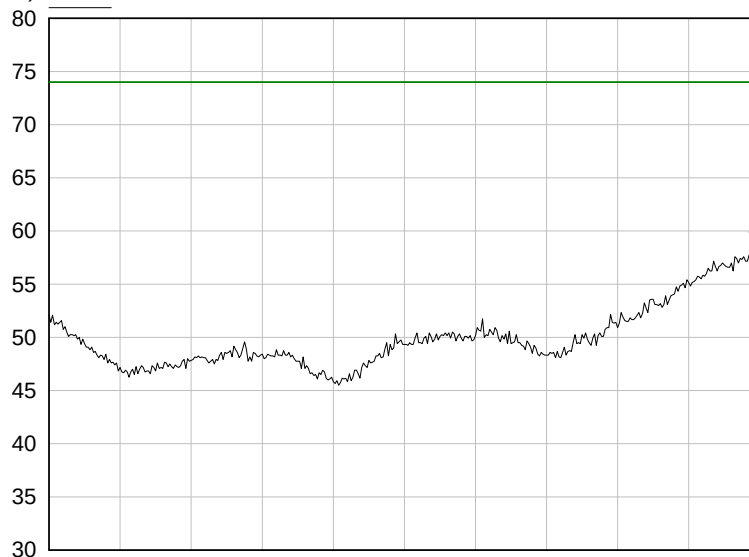
2/2/2010 3:57:17 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.9325 GHz	47.24 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 336

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_LOW_5735MHz BW=10MHz

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 3 MHz

Sweep: 5.00 s

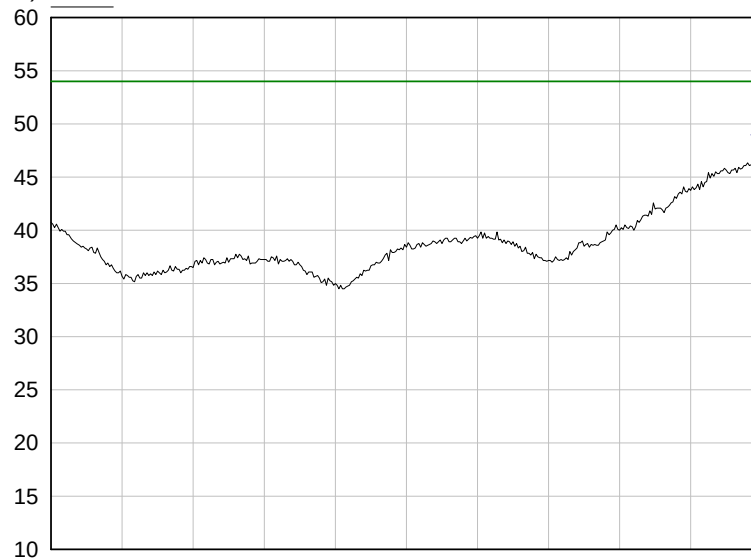
2/2/2010 3:33:42 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8988 GHz	57.89 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 337

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish _Antenna_MID_5790MHz BW=10MHz_AVG

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 10 kHz

Sweep: 5.00 s

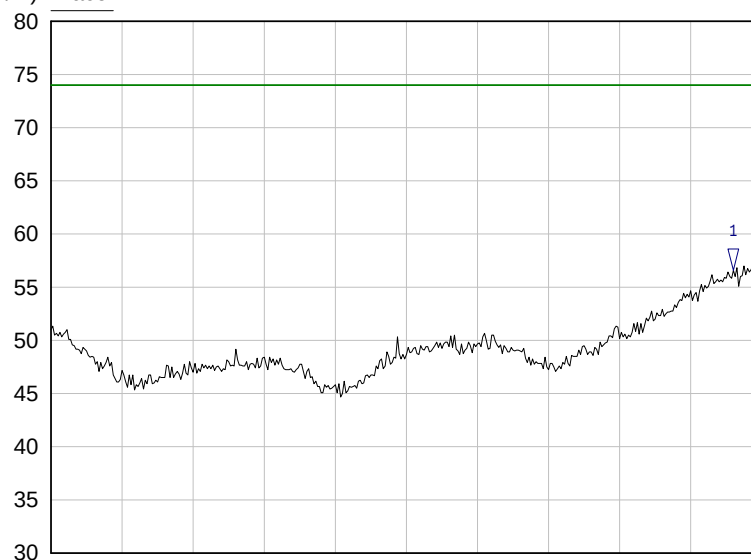
2/2/2010 3:58:18 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8988 GHz	47.03 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 338

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish _Antenna_MID_5790MHz BW=10MHz

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 3 MHz

Sweep: 5.00 s

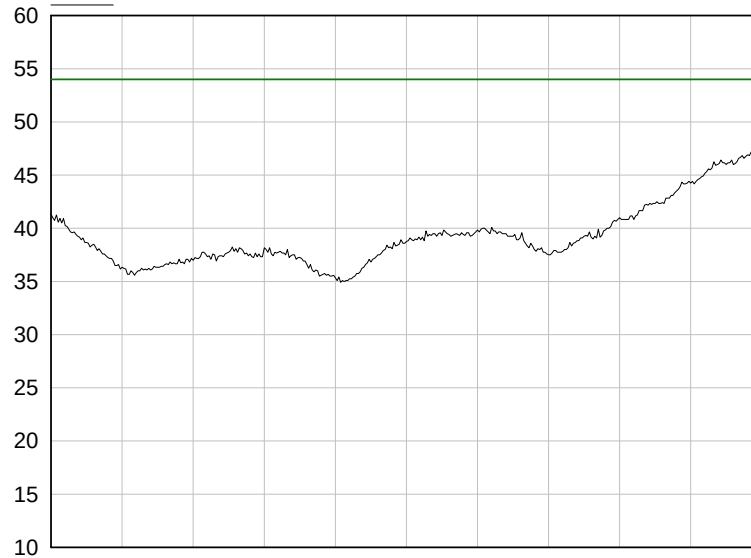
2/2/2010 3:32:06 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.4600 GHz	56.57 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 339

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_HIGH_5840MHz BW=10MHz_AVG

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 10 kHz

Sweep: 5.00 s

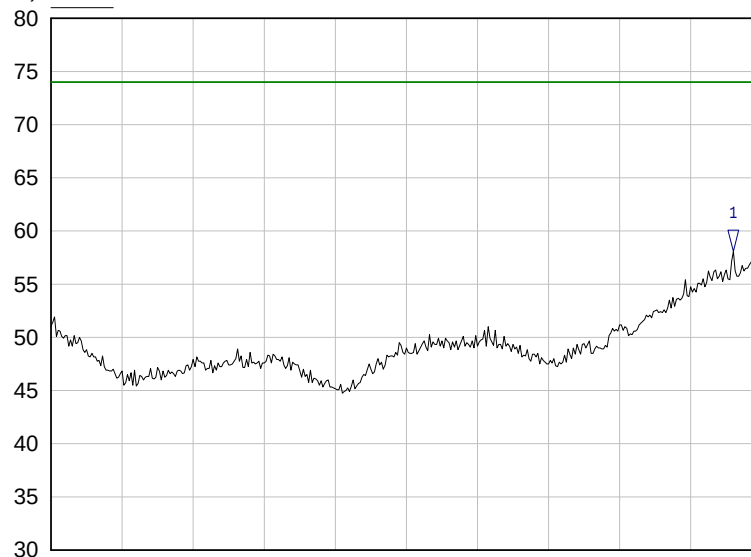
2/2/2010 4:01:58 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	47.34 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 340

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_High_5840MHz BW=10MHz

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 3 MHz

Sweep: 5.00 s

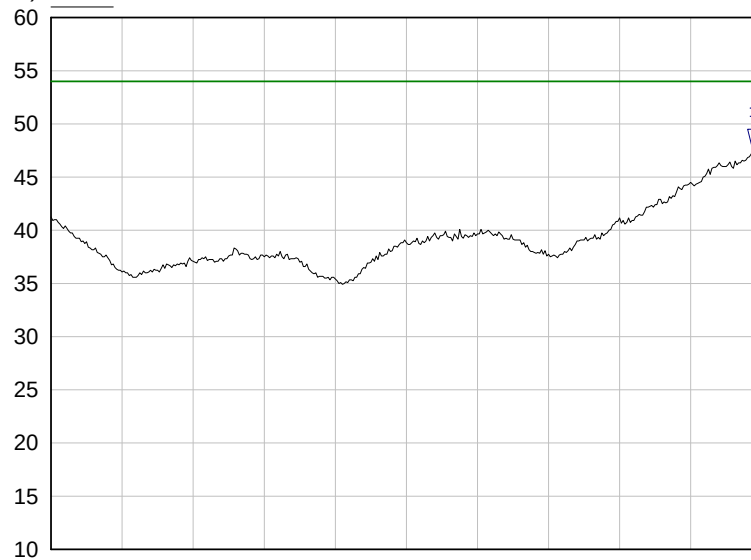
2/2/2010 3:29:38 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.4600 GHz	58.08 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 341

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_LOW_5735MHz BW=20MHz_AVG

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 10 kHz

Sweep: 5.00 s

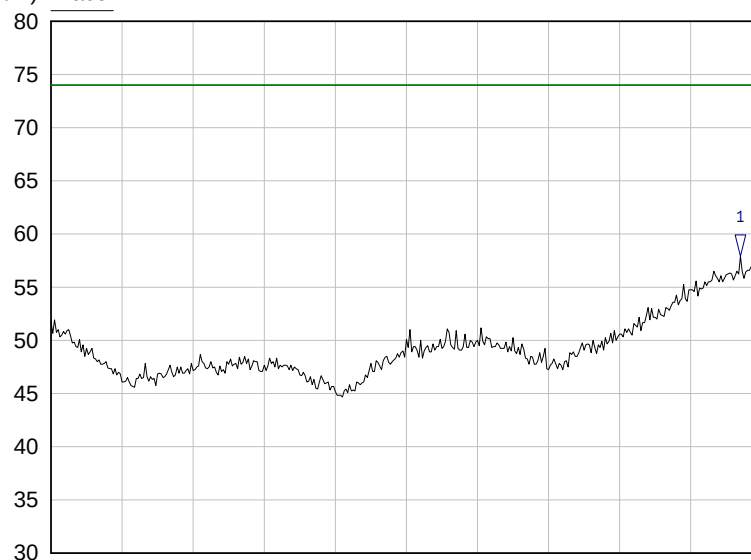
2/2/2010 3:53:12 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8313 GHz	47.49 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 342

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_LOW_5735MHz BW=20MHz

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 3 MHz

Sweep: 5.00 s

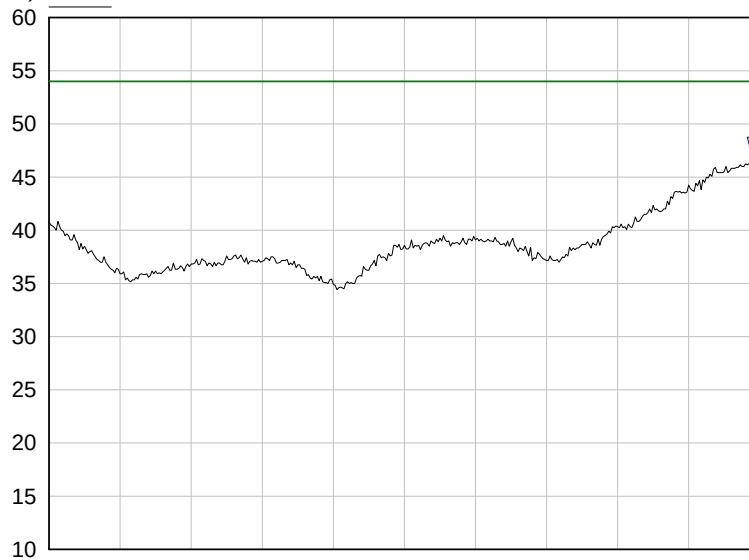
2/2/2010 3:35:22 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.5950 GHz	57.93 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 343

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish _Antenna_MID_5790MHz BW=20MHz_AVG

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 10 kHz

Sweep: 5.00 s

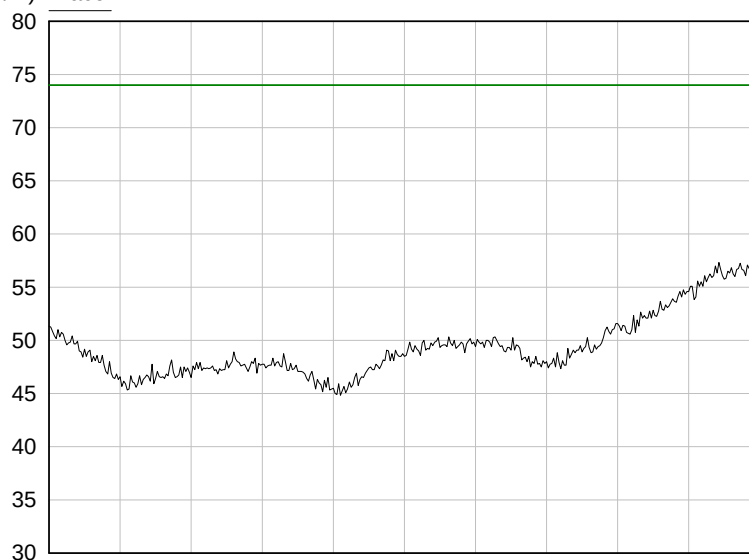
2/2/2010 3:54:08 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8650 GHz	46.78 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 344

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish _Antenna_MID_5790MHz BW=20MHz

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 3 MHz

Sweep: 5.00 s

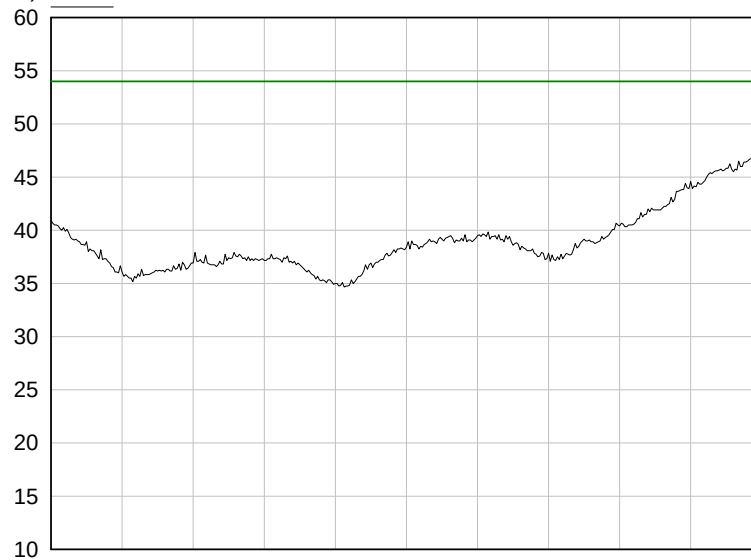
2/2/2010 3:37:34 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.9663 GHz	57.73 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 345

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish _Antenna_HIGH_5840MHz BW=20MHz_AVG

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 10 kHz

Sweep: 5.00 s

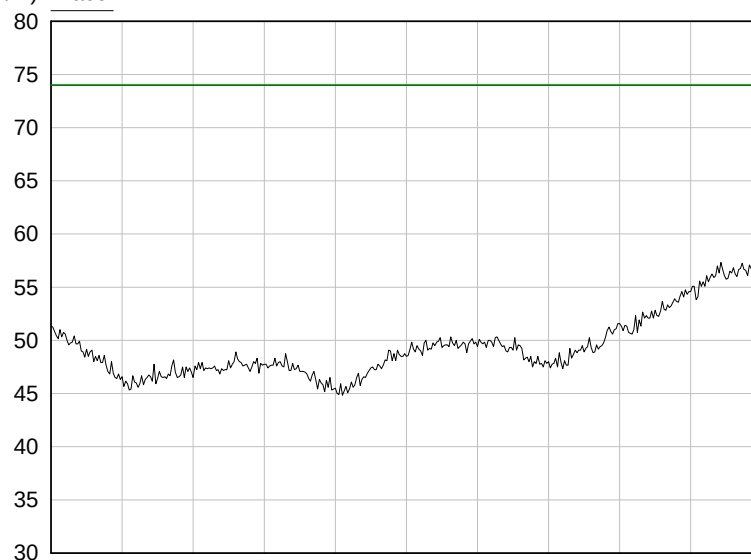
2/2/2010 3:55:51 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.9663 GHz	47.00 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 346

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish _Antenna_MID_5790MHz BW=20MHz

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 3 MHz

Sweep: 5.00 s

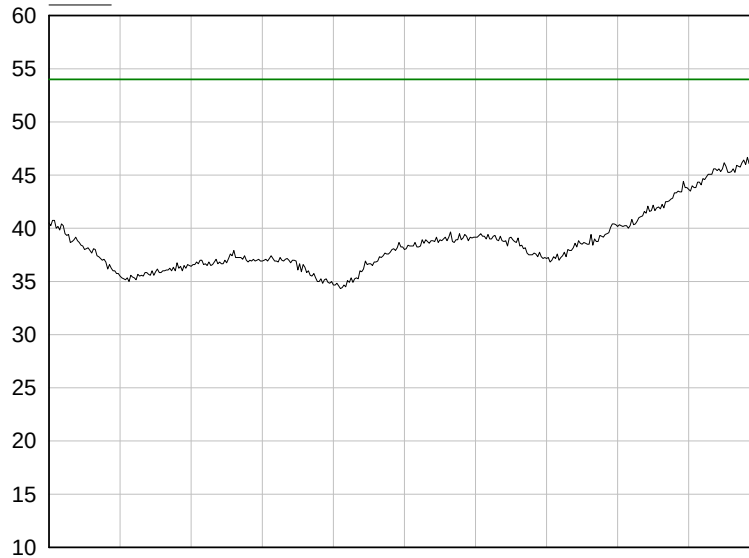
2/2/2010 3:37:34 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.9663 GHz	57.73 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 347

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_LOW_5745MHz BW=40MHz_AVG

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 10 kHz

Sweep: 5.00 s

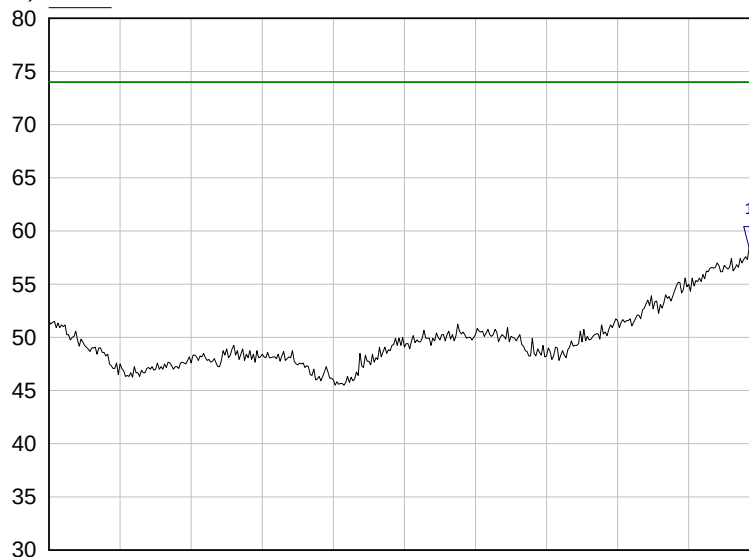
2/2/2010 3:46:36 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	47.00 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 348

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_LOW_5745MHz BW=40MHz

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 3 MHz

Sweep: 5.00 s

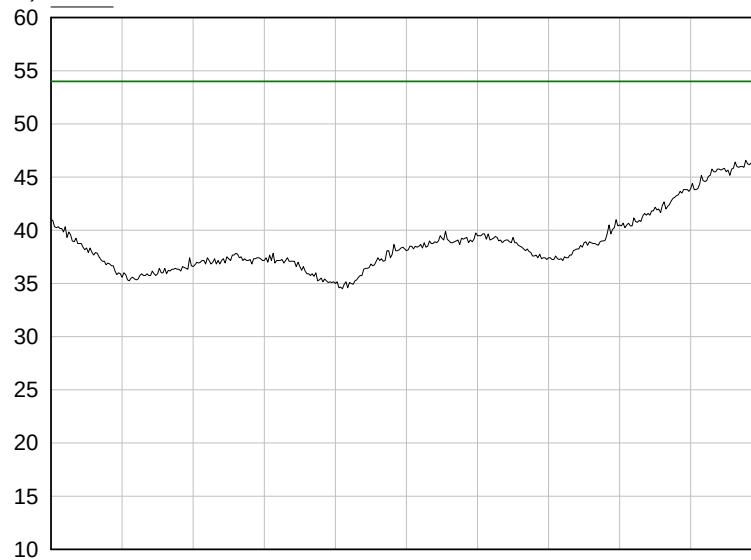
2/2/2010 3:44:28 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.7975 GHz	58.38 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 349

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_MID_5790MHz BW=40MHz_AVG

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 10 kHz

Sweep: 5.00 s

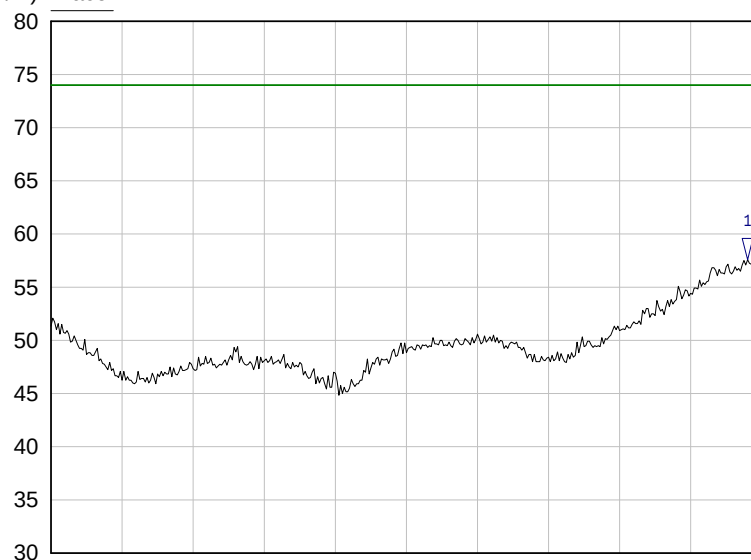
2/2/2010 3:48:28 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.9325 GHz	46.91 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 350

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_HIGH_5830MHz BW=40MHz

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 3 MHz

Sweep: 5.00 s

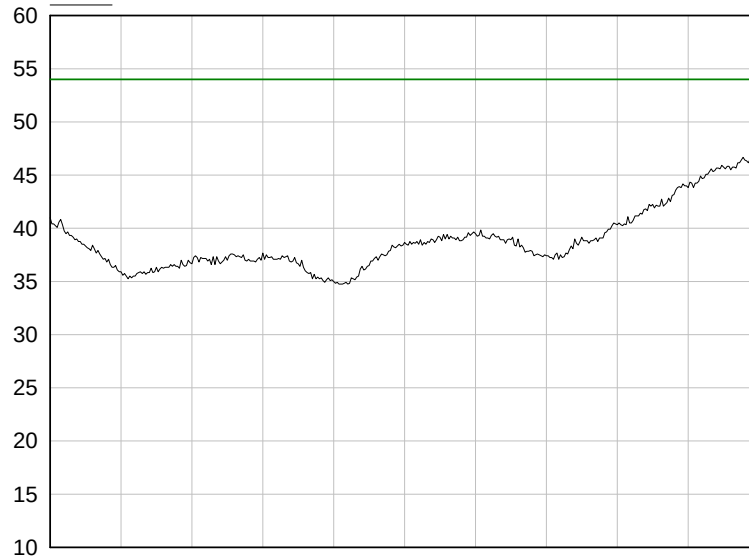
2/2/2010 3:41:59 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.7300 GHz	57.60 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 351

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_HIGH_5830MHz BW=40MHz_AVG

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 10 kHz

Sweep: 5.00 s

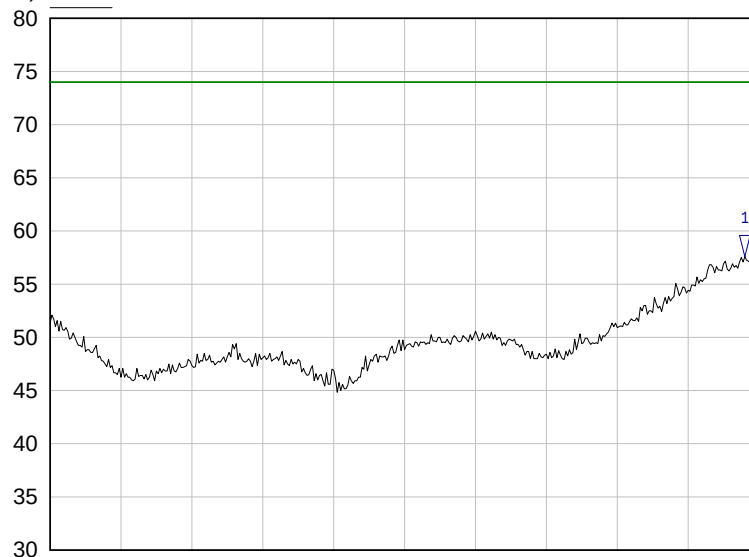
2/2/2010 3:50:09 PM

E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	46.76 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 352

dB Radiated Emission Out Of Band
(uV/m) Trace A



Dish_Antenna_HIGH_5830MHz BW=40MHz

Start: 26.5000 GHz

Stop: 40.0000 GHz

Res BW: 1 MHz

Vid BW: 3 MHz

Sweep: 5.00 s

2/2/2010 3:41:59 PM

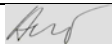
E7405A

Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.7300 GHz	57.60 dB(uV/m)	Peak -V and H pol'

Plot Radiated Emission/ 353

6. MAXIMUM PEAK POWER DENSITY TEST

Equipment Under Test	WipAir 6000/3000
Test Method	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2.
Date	18.01.2010
Relative Humidity	40%
Ambient Temperature	25 ⁰ C
Air Pressure	1010 hPa
Test Setup	Figure 5.a

Testing Engineer: I.Arbitman  **Date** 18.01.2010

6.1. Test Results Summary & Conclusions

The E.U.T was found in compliance with peak power density test requirement

6.2. Limits

Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

The test unit shall meet the limits of Table 109.

Table 109: Limits for Fundamental

Operating frequency range (MHz)	Peak Max Limits(dbm)
5725 - 5850	8

6.3. Test Instrumentation and Equipment

Table 110: Test Instrumentation and Equipment

Item	Model	Manufacturer	Next Date Calibration
Spectrum Analyzer	E7405A	Agilent	27.05.2010
10db attenuator	771-20	Narda	29.12.2010
10db attenuator	771-20	Narda	29.12.2010
10db attenuator	771-20	Narda	29.12.2010

6.4. Test Procedure

The EUT RF output was connected to the Spectrum Analyzer through appropriated attenuator and cable loss must be taken in final calculations.

The EUT was adjusted to produce maximum output power.

6.5. Test Setup

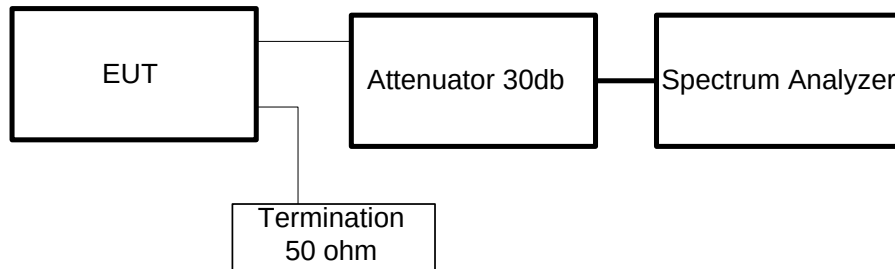


Figure 5: Test Setup for Peak power density

6.6. Test Results

Table 111: 5 MHz Peak Power Density Test Result

Frequency (MHz)	Measurement PSD (dBm)	Peak Power Density dB(mW/3kHz)	Total PSD dB(mW/3kHz)*	Limit (dBm)	Plot No.	PASS/ FAIL
Low – 5730	-5.85	-5.85	-2.85	8	354,355	Pass
Medium – 5790	-5.21	-5.21	-2.21	8	356,357	Pass
High – 5845	-4.19	-4.19	-1.19	8	358,359	Pass

Table 112: 10 MHz Peak Power Density Test Result

Frequency (MHz)	Measurement PSD (dBm)	Peak Power Density dB(mW/3kHz)	Total PSD dB(mW/3kHz)*	Limit (dBm)	Plot No.	PASS/ FAIL
Low – 5735	-9.36	-9.36	-6.36	8	360,361	Pass
Medium – 5790	-8.5	-8.5	-5.5	8	362,363	Pass
High – 5840	-6.21	-6.21	-3.21	8	364,365	Pass

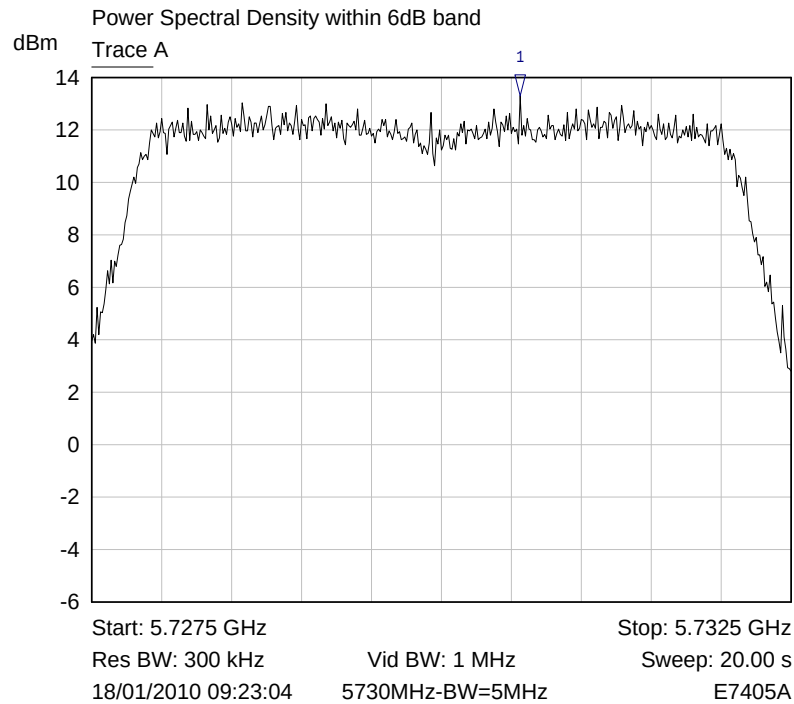
Table 113: 20 MHz Peak Power Density Test Result

Frequency (MHz)	Measurement PSD (dBm)	Peak Power Density dB(mW/3kHz)	Total PSD dB(mW/3kHz)*	Limit (dBm)	Plot No.	PASS/ FAIL
Low – 5735	-11.54	-11.54	-8.54	8	366-,367	Pass
Medium – 5790	-11.41	-11.41	-8.41	8	368,369	Pass
High – 5840	-8.67	-8.67	-5.67	8	370,371	Pass

Table 114: 40 MHz Peak Power Density Test Result

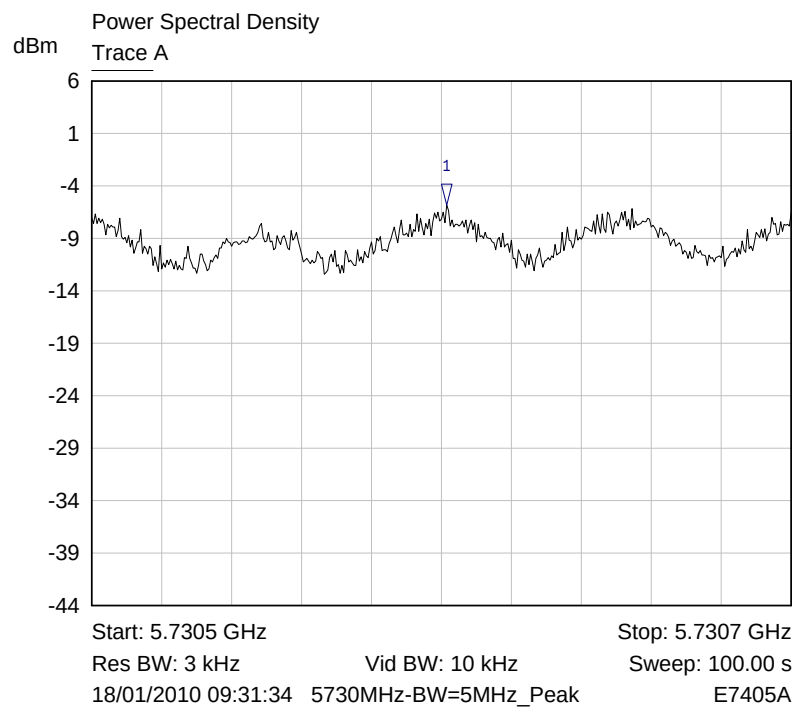
Frequency (MHz)	Measurement PSD (dBm)	Peak Power Density dB(mW/3kHz)	Total PSD dB(mW/3kHz)*	Limit (dBm)	Plot No.	PASS/ FAIL
Low – 5745	-14.30	-14.30	-11.30	8	372-,373	Pass
Medium – 5790	-14.05	-14.05	-11.05	8	374,375	Pass
High – 5830	-12.37	-12.37	-9.37	8	376,377	Pass

*-The Total Peak Power Density summed across 2 antenna output s in linear terms by adding 3dB



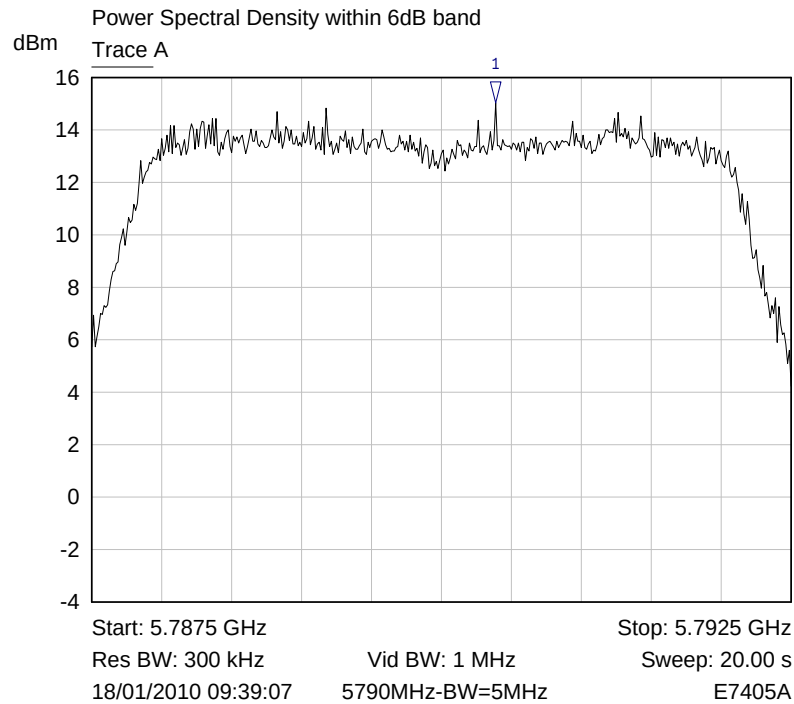
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.7306 GHz	13.32 dBm	

Plot Peak Power Density/ 354



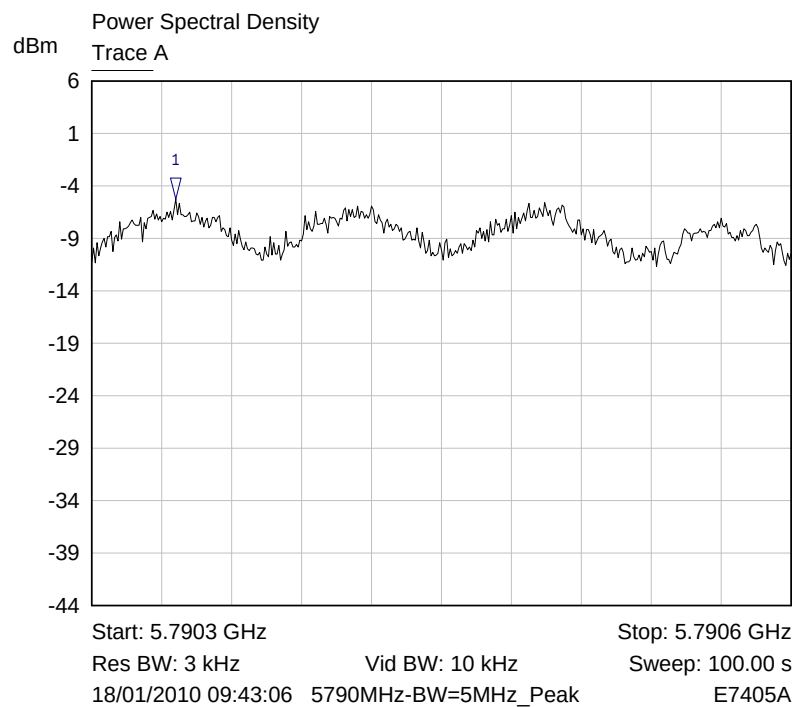
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.7306 GHz	-5.85 dBm	

Plot Peak Power Density/ 355



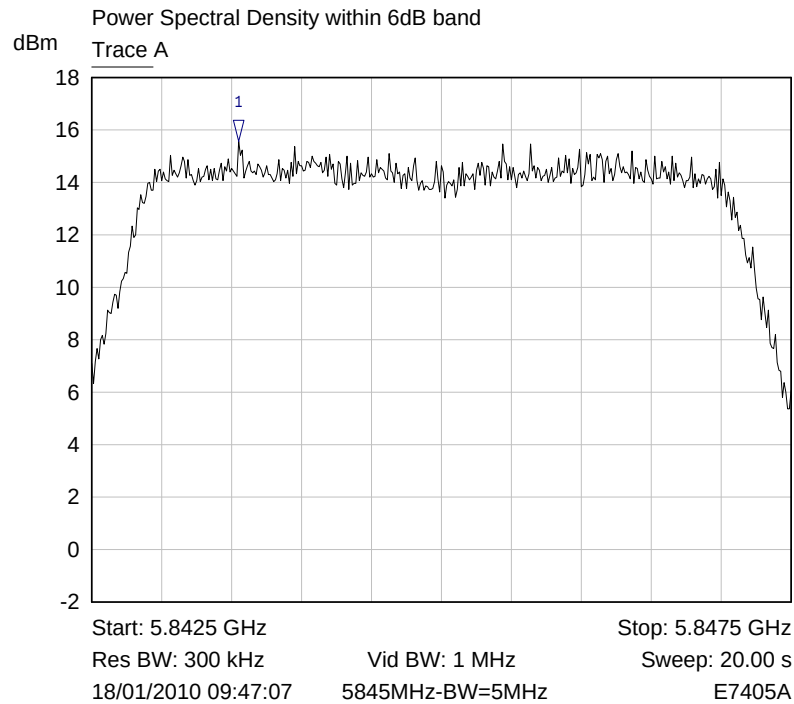
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.7904 GHz	15.04 dBm	

Plot Peak Power Density/ 356



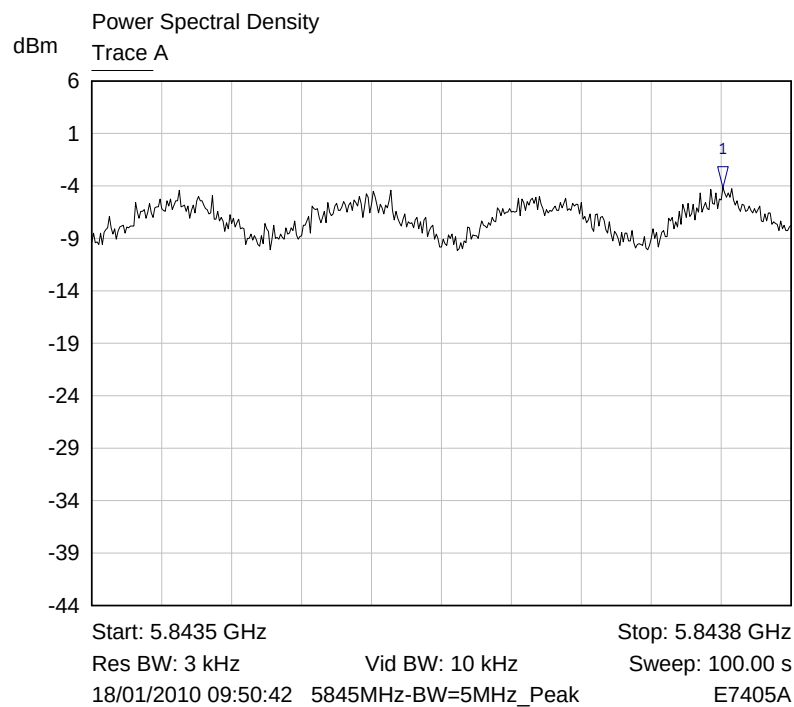
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.7903 GHz	-5.21 dBm	

Plot Peak Power Density/ 357



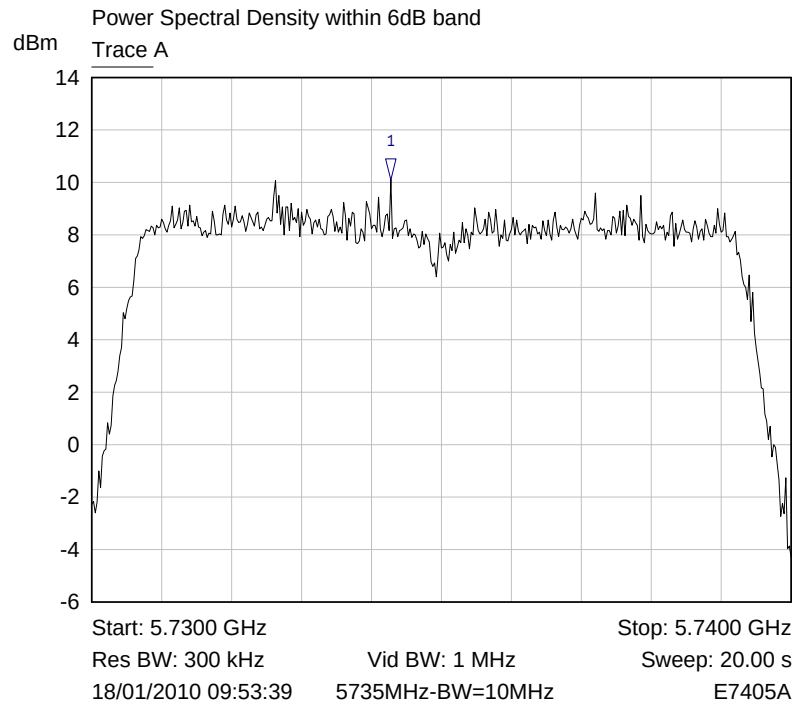
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.8436 GHz	15.57 dBm	

Plot Peak Power Density/ 358



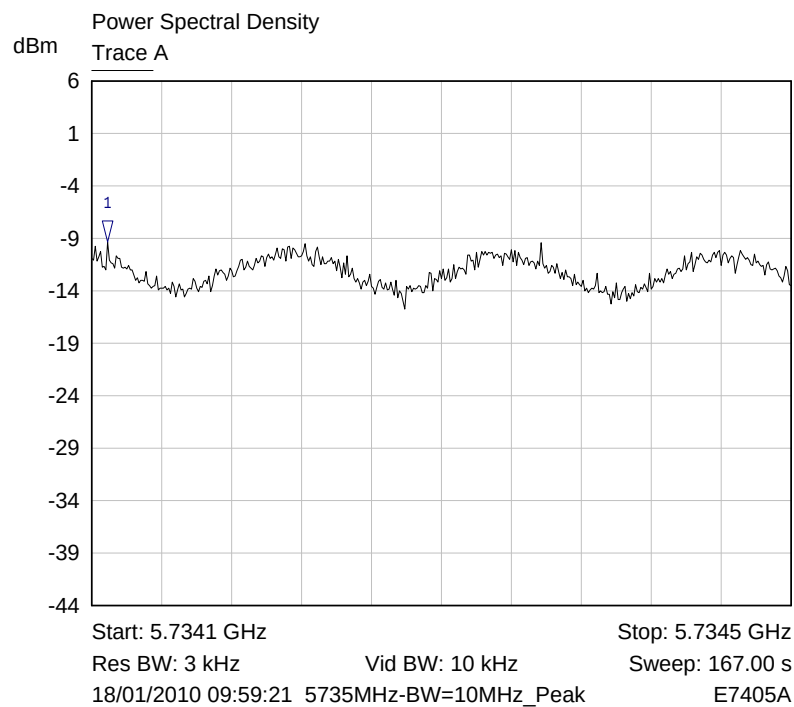
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.8437 GHz	-4.19 dBm	

Plot Peak Power Density/ 359



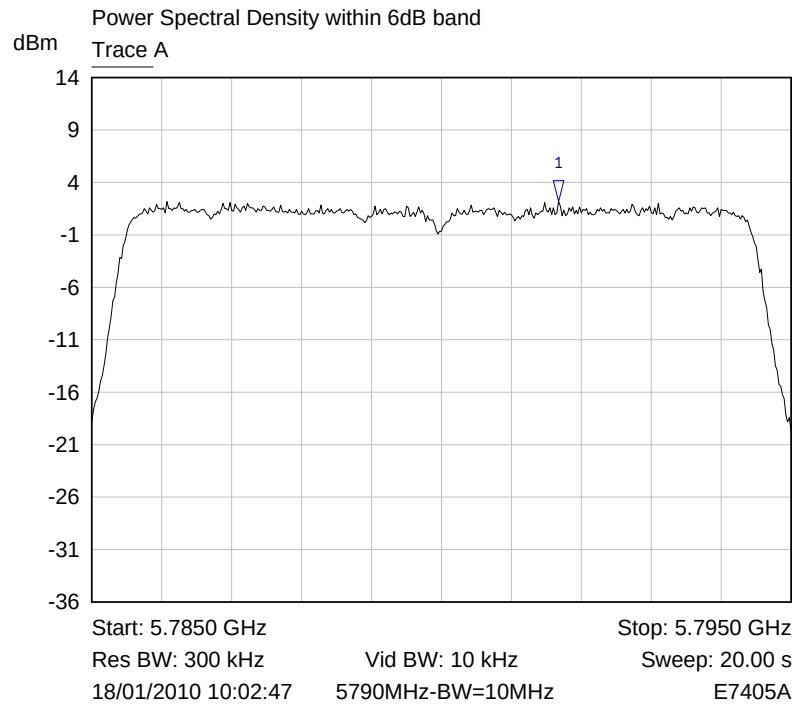
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.7343 GHz	10.09 dBm	

Plot Peak Power Density/ 360



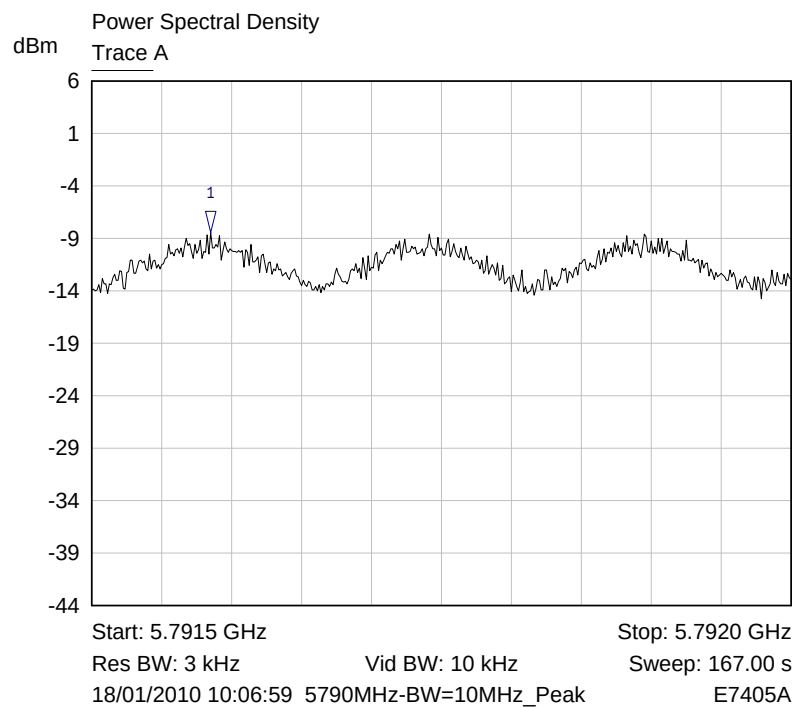
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.7341 GHz	-9.36 dBm	

Plot Peak Power Density/ 361



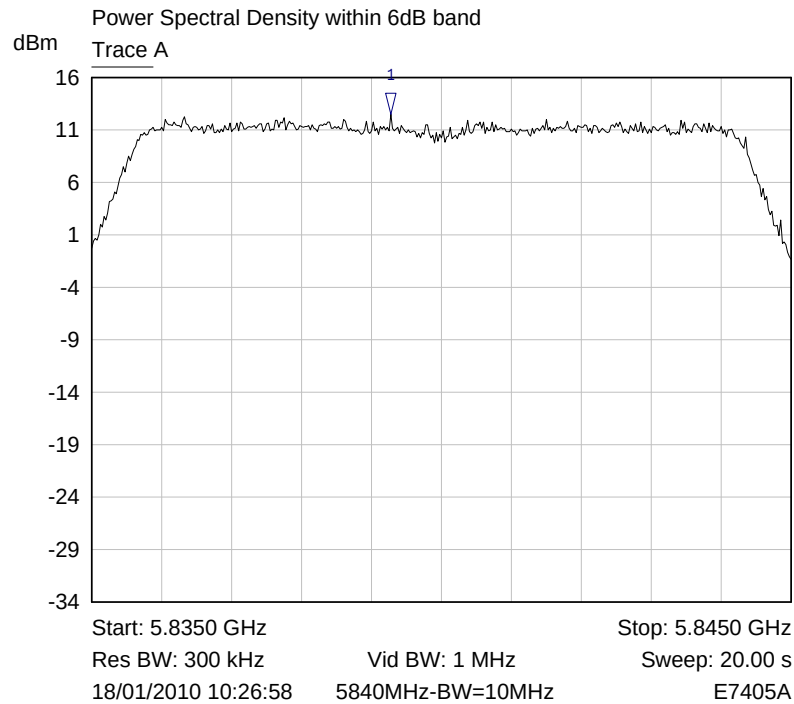
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.7917 GHz	2.15 dBm	

Plot Peak Power Density/ 362



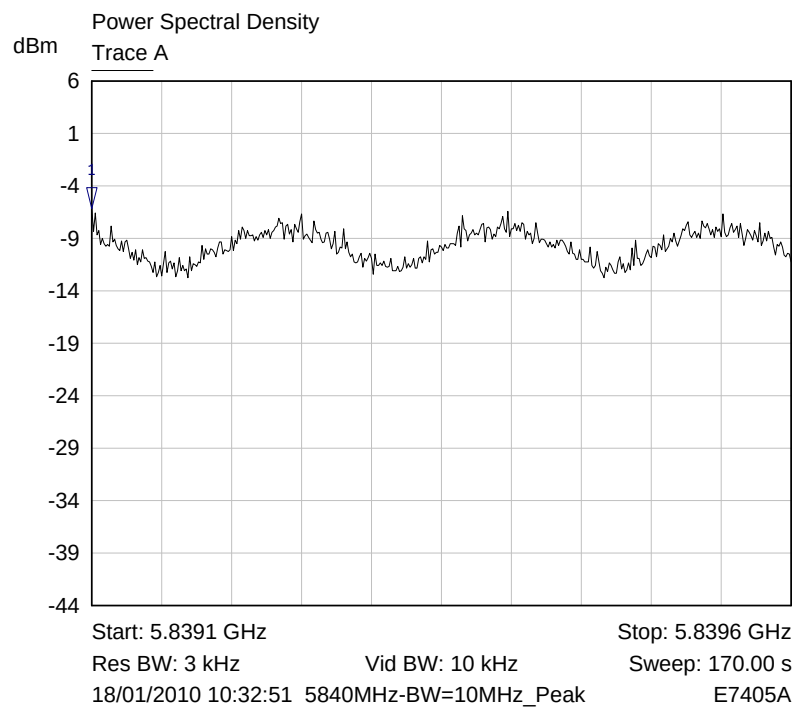
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.7915 GHz	-8.45 dBm	

Plot Peak Power Density/ 363



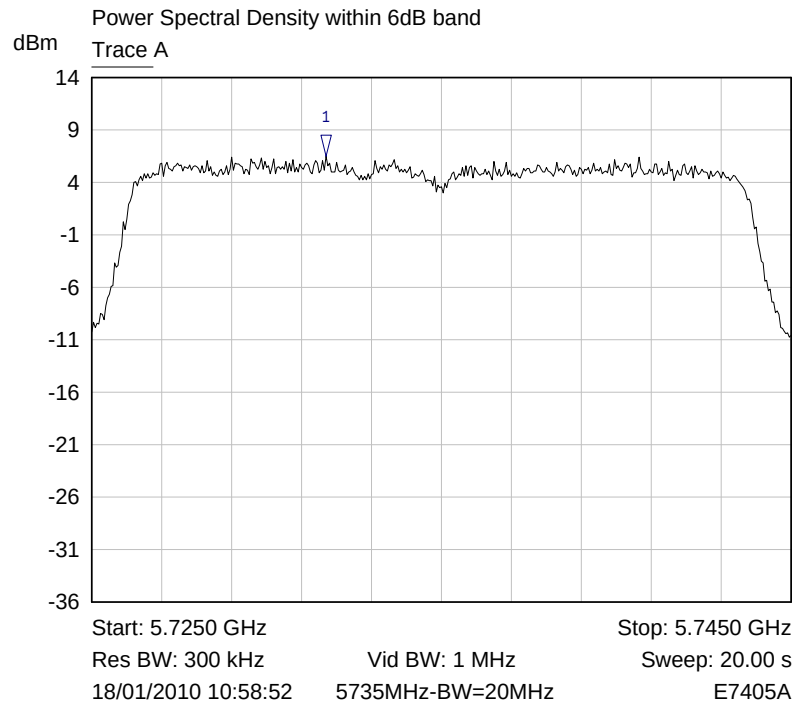
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.8393 GHz	12.49 dBm	

Plot Peak Power Density/ 364



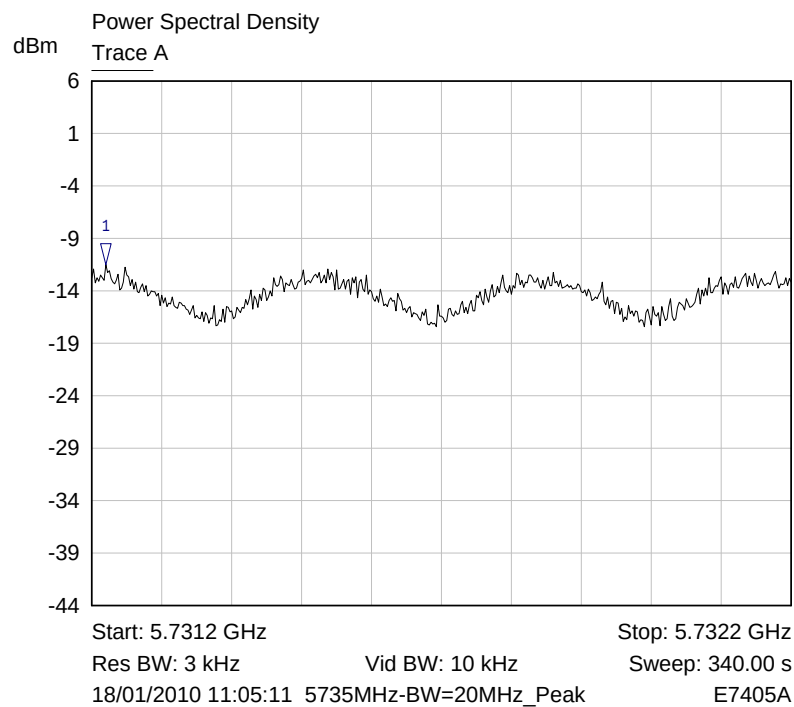
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.8391 GHz	-6.21 dBm	

Plot Peak Power Density/ 365



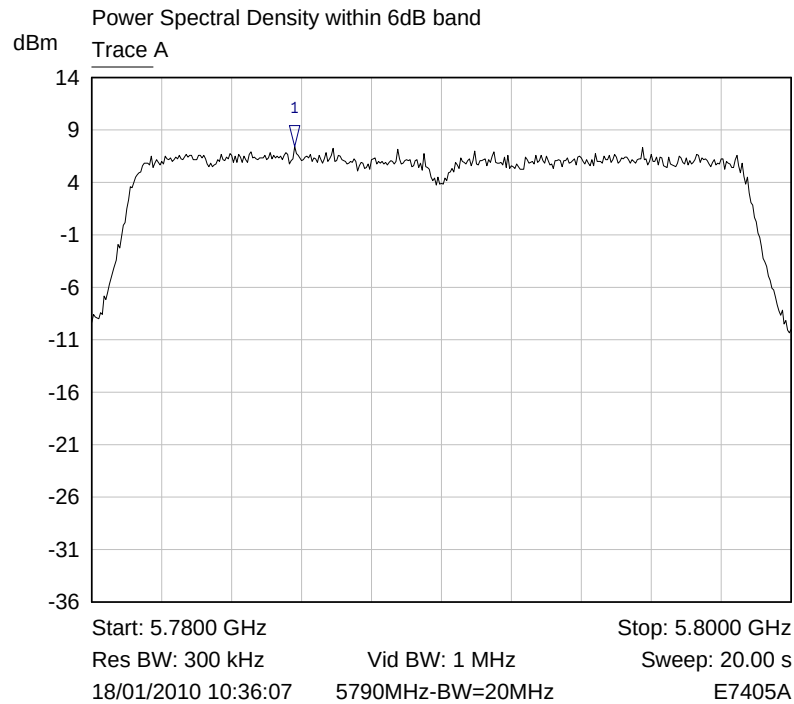
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.7317 GHz	6.48 dBm	

Plot Peak Power Density/ 366



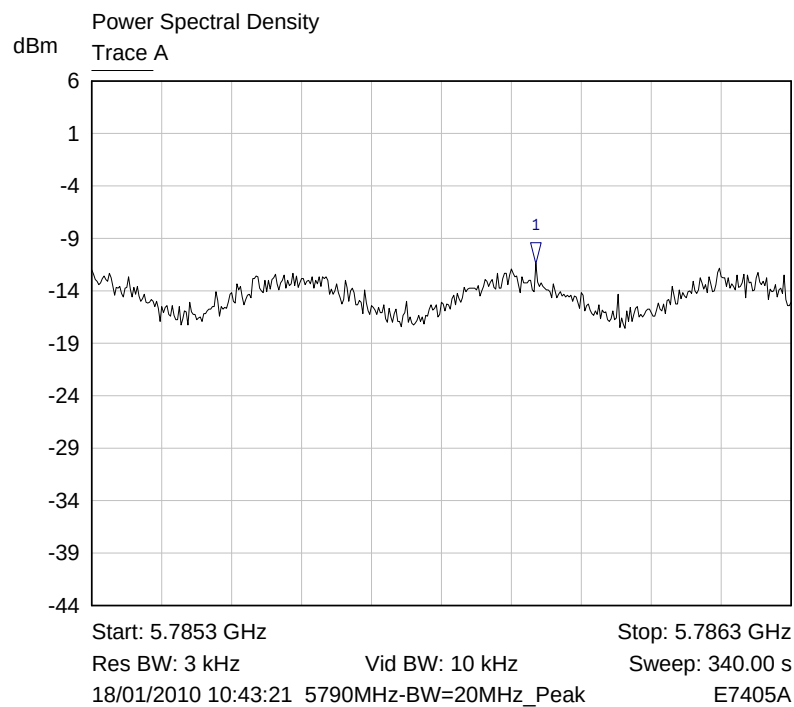
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.7312 GHz	-11.54 dBm	

Plot Peak Power Density/ 367



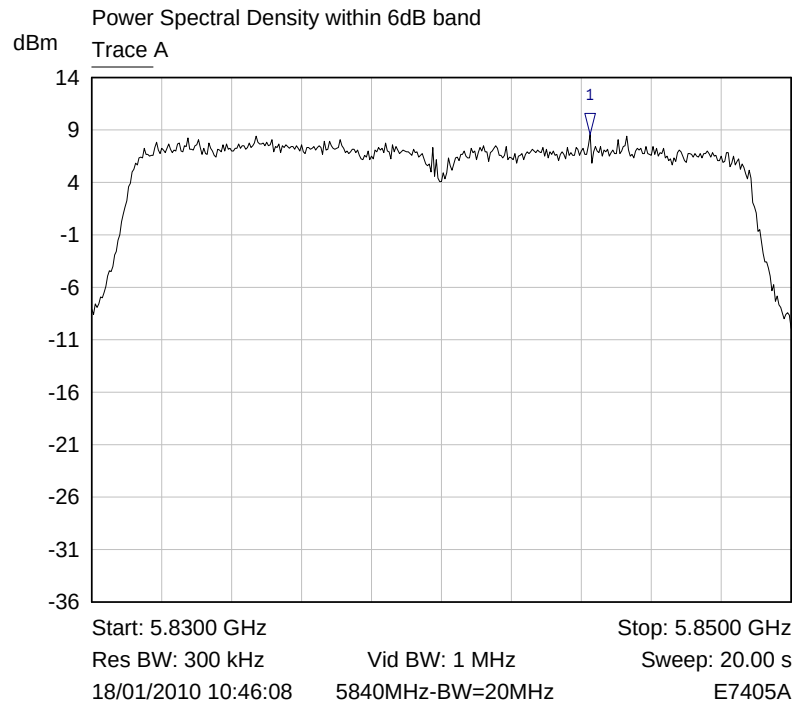
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.7858 GHz	7.42 dBm	

Plot Peak Power Density/ 368



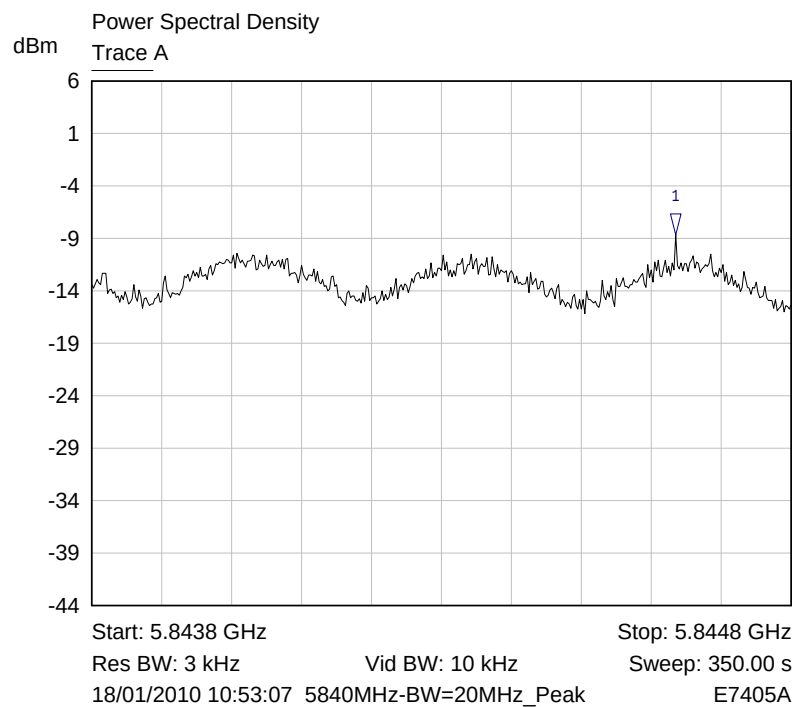
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.7859 GHz	-11.41 dBm	

Plot Peak Power Density/ 369



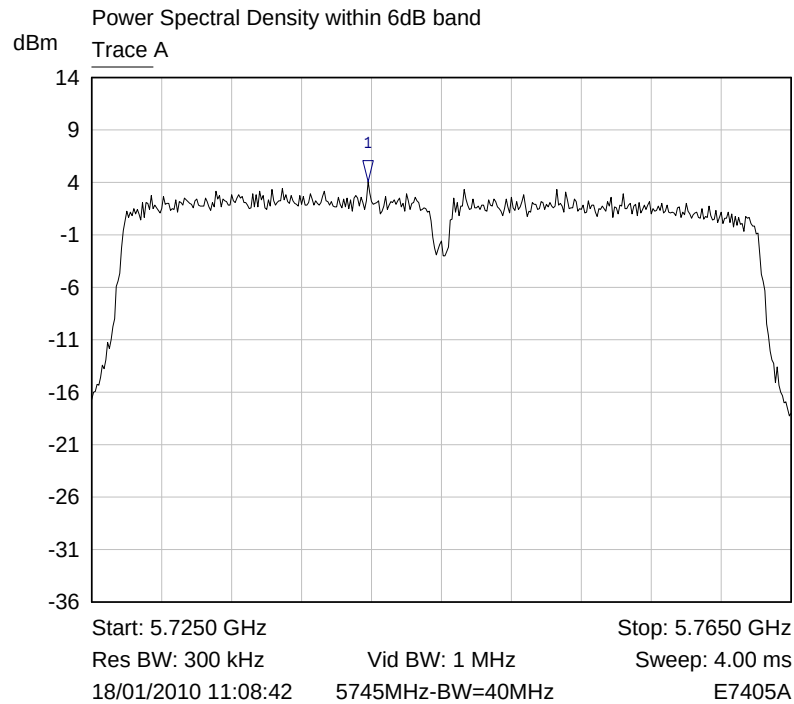
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.8443 GHz	8.57 dBm	

Plot Peak Power Density/ 370



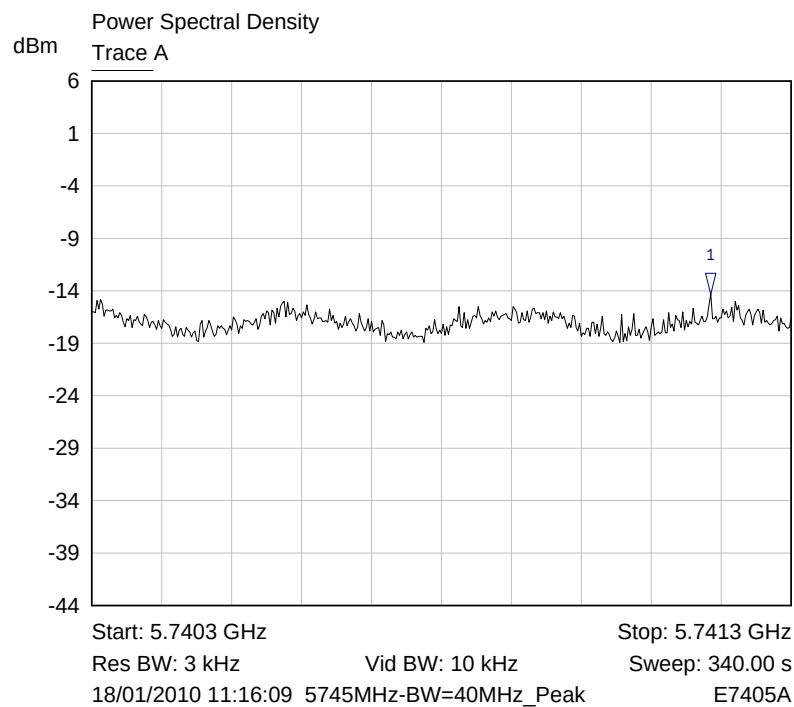
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.8446 GHz	-8.67 dBm	

Plot Peak Power Density/ 371



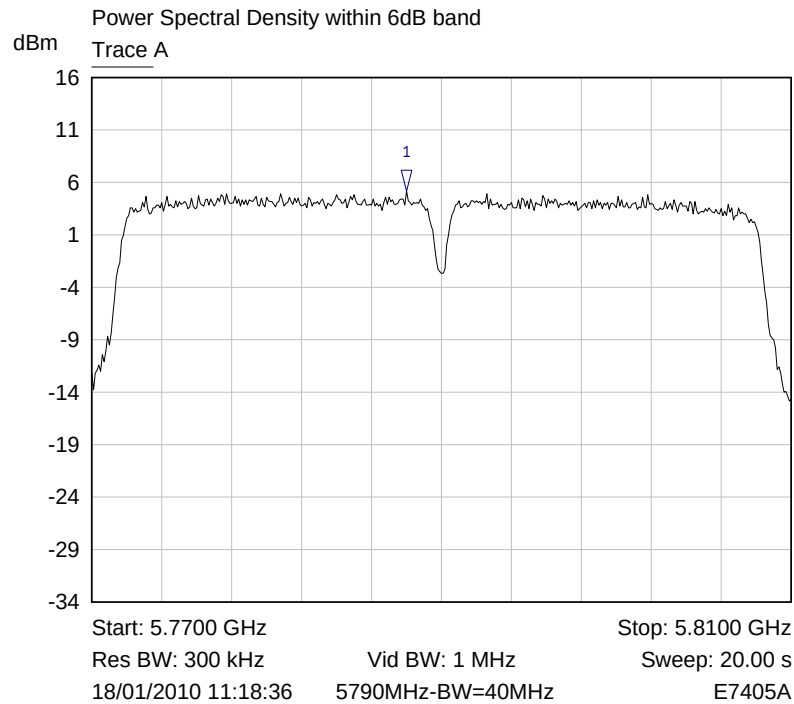
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.7408 GHz	4.11 dBm	

Plot Peak Power Density/ 372



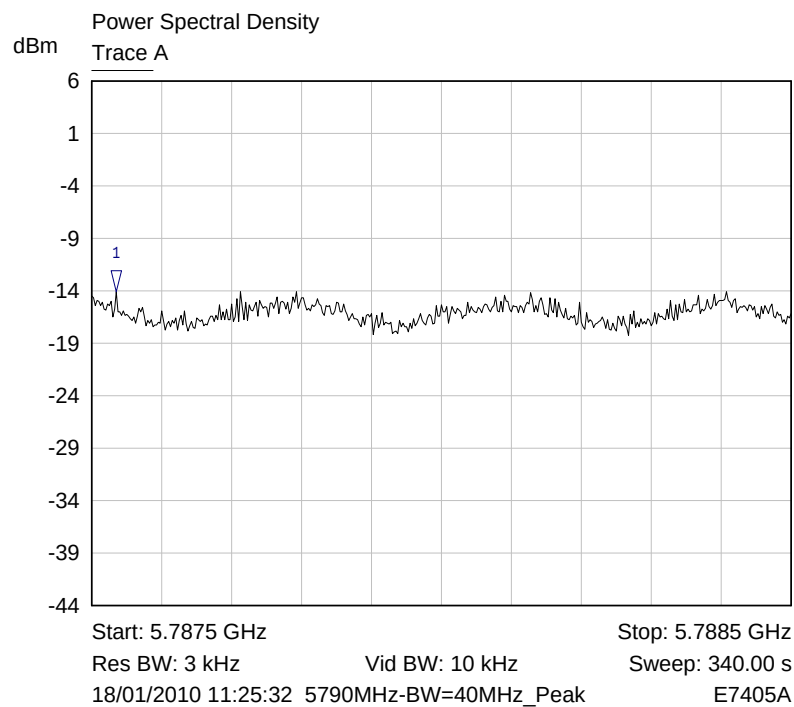
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.7412 GHz	-14.30 dBm	

Plot Peak Power Density/ 373



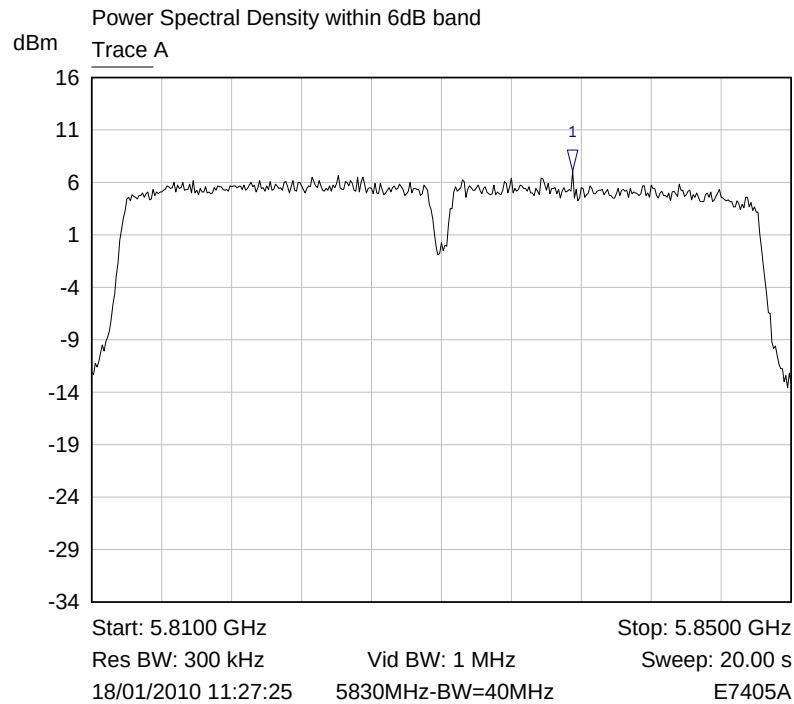
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.7880 GHz	5.17 dBm	

Plot Peak Power Density/ 374



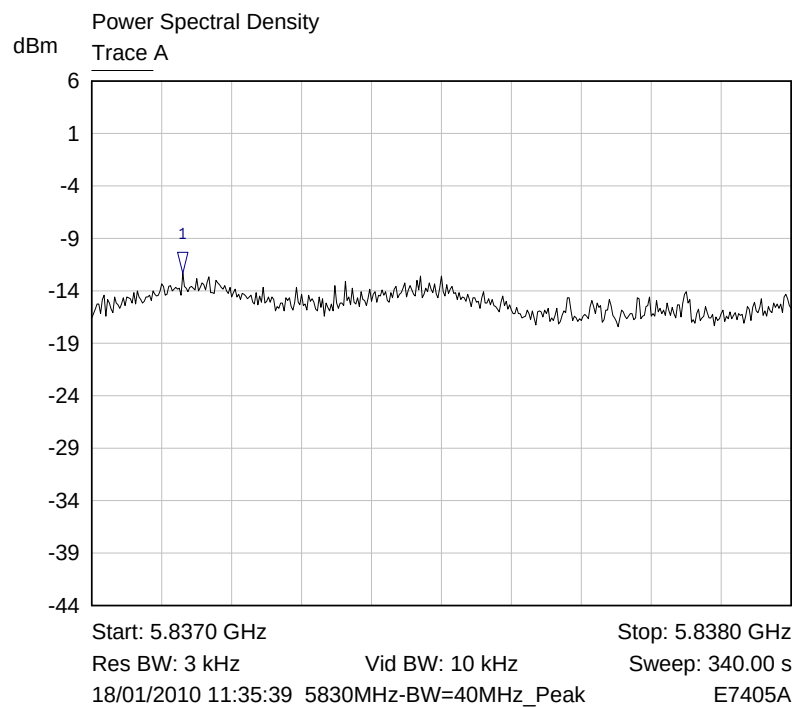
Mkr	Trace	X-Axis	Value	Notes
1 ▾	Trace A	5.7875 GHz	-14.05 dBm	

Plot Peak Power Density/ 375



Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.8375 GHz	7.05 dBm	

Plot Peak Power Density/ 376



Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	5.8371 GHz	-12.37 dBm	

Plot Peak Power Density/ 377

7. CONDUCTED EMISSION TEST ACCORDING TO 15.207.15.107

Equipment Under Test	WipAir 6000/3000
Test Method	FCC New Guidance on Measurements for DTS in section 15.207(a) section 7.2 2.
Date	02.03.2010
Relative Humidity	40%
Ambient Temperature	25 ⁰ C
Air Pressure	1010 hPa
Test Setup	Figure 5.a

Testing Engineer: I.Arbitman

Date 02.03.2010

7.1. Test Results Summary & Conclusions

The E.U.T was found in compliance with conducted emission power leads requirements.

7.2. Limit:

Conducted emission must comply with 15.207 Limits. See limits in table 10b bellow.

Table 115: Limits For 15.207 Class B equipment

Frequency (MHz)	Quasi-peak Limits (dBμV)
0.15 – 0.5	66-56
0.5 - 5	56
5 - 30	60

7.3. Test Instrumentation and Equipment

Table 116: Test Instrumentation and Equipment

Item	Model	Manufacturer	Next Date Calibration
Spectrum Analyzer	8593E	HP	24.06.2010
LISN	DC-AC-20A/01	TADIRAN	02.02.2012
20DB attenuator	2525-20	ATM	29.12.2011

7.4. Test Procedure

7.4.1.1. The EUT was placed on the top of table 1m by 1.5m, raised 0.8 meters above the conducting ground plane

7.4.1.2. The rear panel of the EUT was located 40cm to the vertical wall of the screen room

7.4.1.3. Each EUT power leads were individually connected through an LISN to the input power source. Unused 50 ohm connector of the LISN was terminated in 50ohm and other was connected to the spectrum analyzer through 20db attenuator for maximum conducted interference

7.5. Test setup

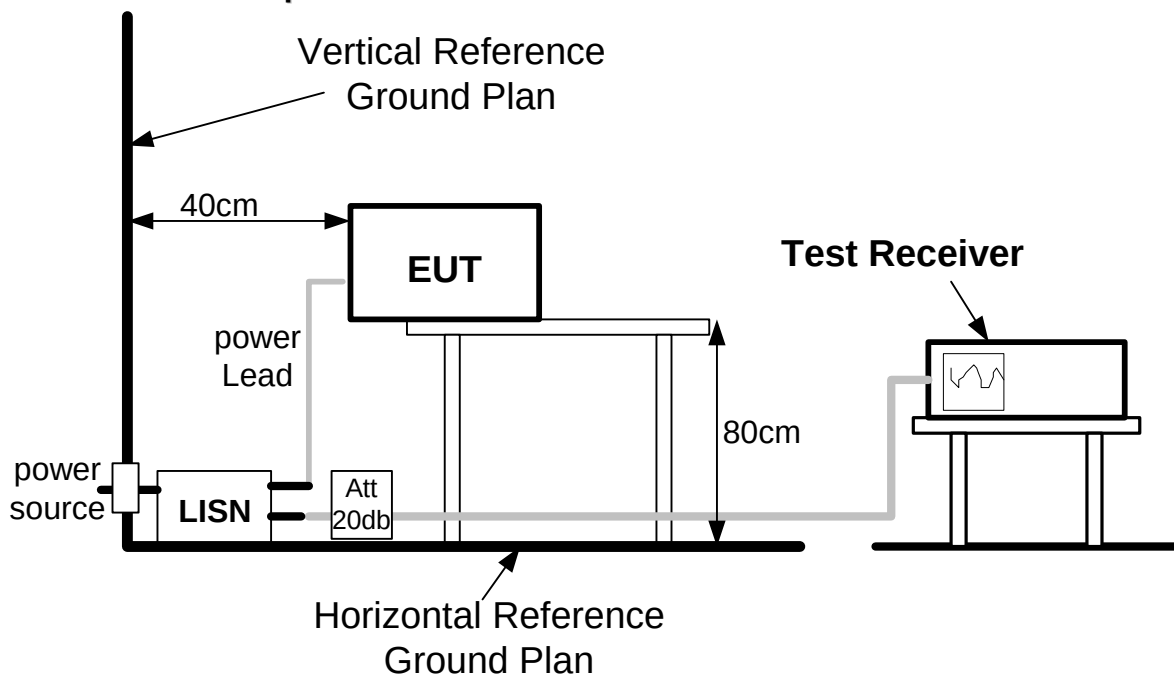


Figure- 6: Conducted emission Test Configuration

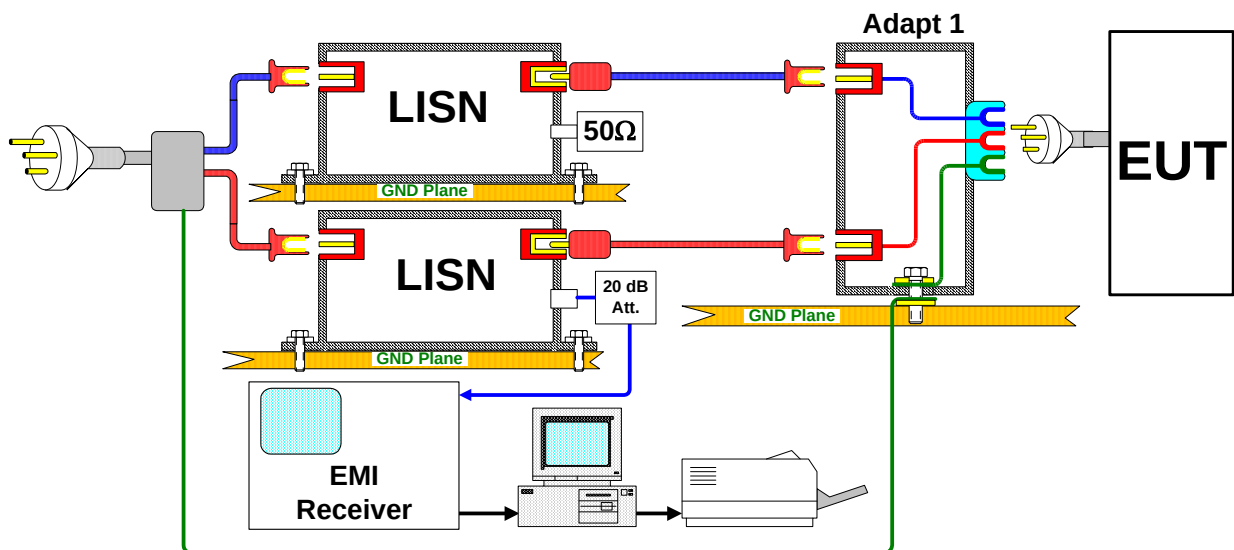


Figure 7: Conducted emission Test setup

7.6. Test Results

Table 117: Test results

Frequency Range (MHz)	Tested Line	Test Plots Numbers	PASS/FAIL
0.15 - 1	Phase 110V AC	PLOT 1	PASS
1 - 30		PLOT 2	PASS
0.15 - 1	Neutral 110V AC	PLOT 3	PASS
1 - 30		PLOT 4	PASS



Photograph of Conducted Emission Test Setup/ 1

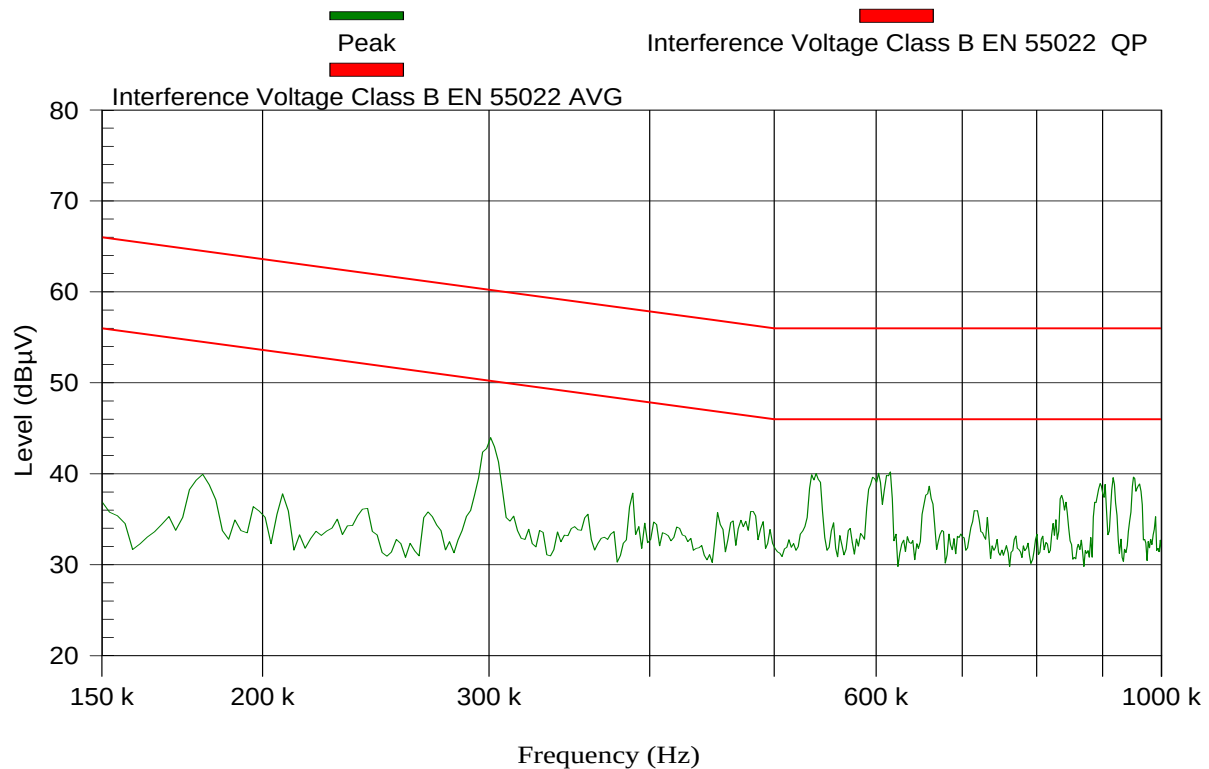
Test Results Plot No 1

CE EN 55022 CLASS B 0.15-1 MHz PHASE

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FB1CA	Ref. Level:	80 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	No Description Available	Sweep Time:	Auto: 23.61 ms
Polarization:		Pre Amplifier	Attenuator 20db

TEST REMARKS: 04 March 2010 11:10:04

Phase 110V AC



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V)	AVG Value (dB μ V)	QP Value (dB μ V)	AVG Limit (dB μ V)	QP Limit (dB μ V)	Result	Line
1	0.15	34.2	22.3	30	56	66	Pass	Line 1
2	0.538	40.8	34.5	37	46	56	Pass	Line 1
3	0.597	41	35	38.4	46	56	Pass	Line 1

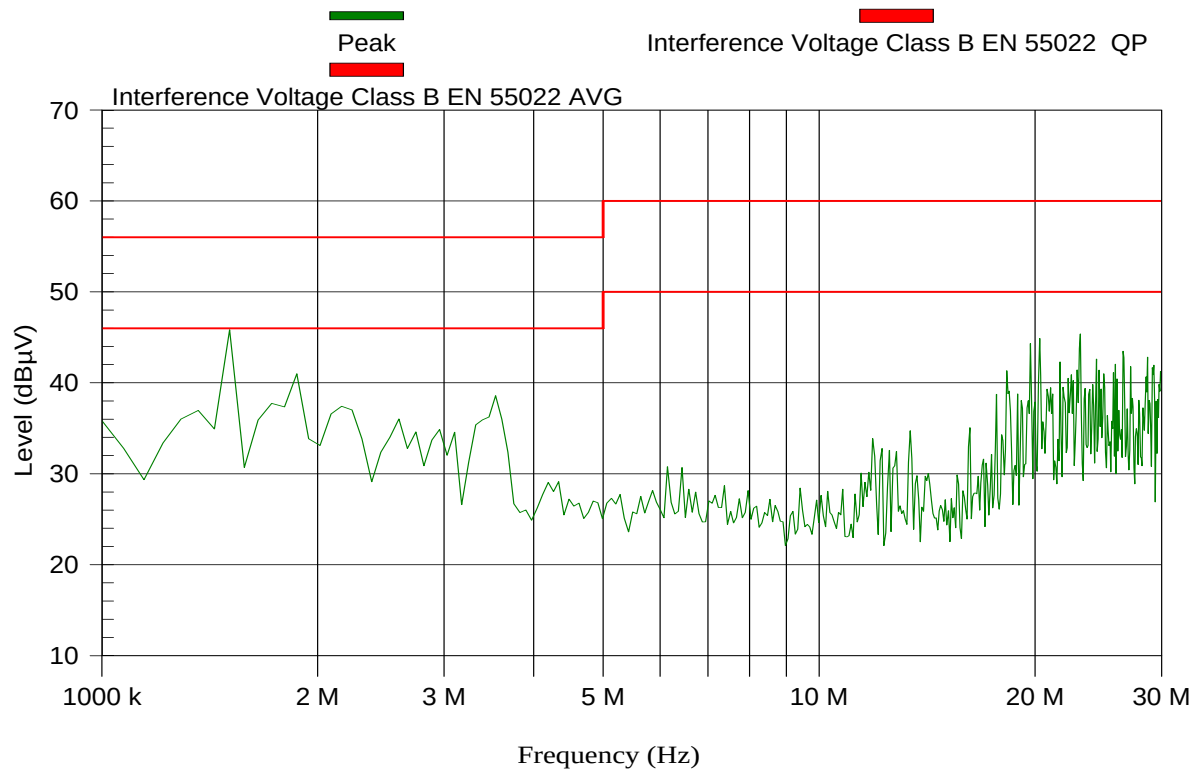
Test Results Plot No 2

CE EN 55022 CLASS B 1-30 MHz PHASE

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FB1CA	Ref. Level:	80 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	No Description Available	Sweep Time:	Auto: 805.57 ms
Polarization:		Pre Amplifier	Attenuator 20db

TEST REMARKS: 04 March 2010 11:15:55

Phase 110V AC



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V)	AVG Value (dB μ V)	QP Value (dB μ V)	AVG Limit (dB μ V)	QP Limit (dB μ V)	Result	Line
1	1.53	46.7	43.1	45.1	46	56	Pass	Line 1

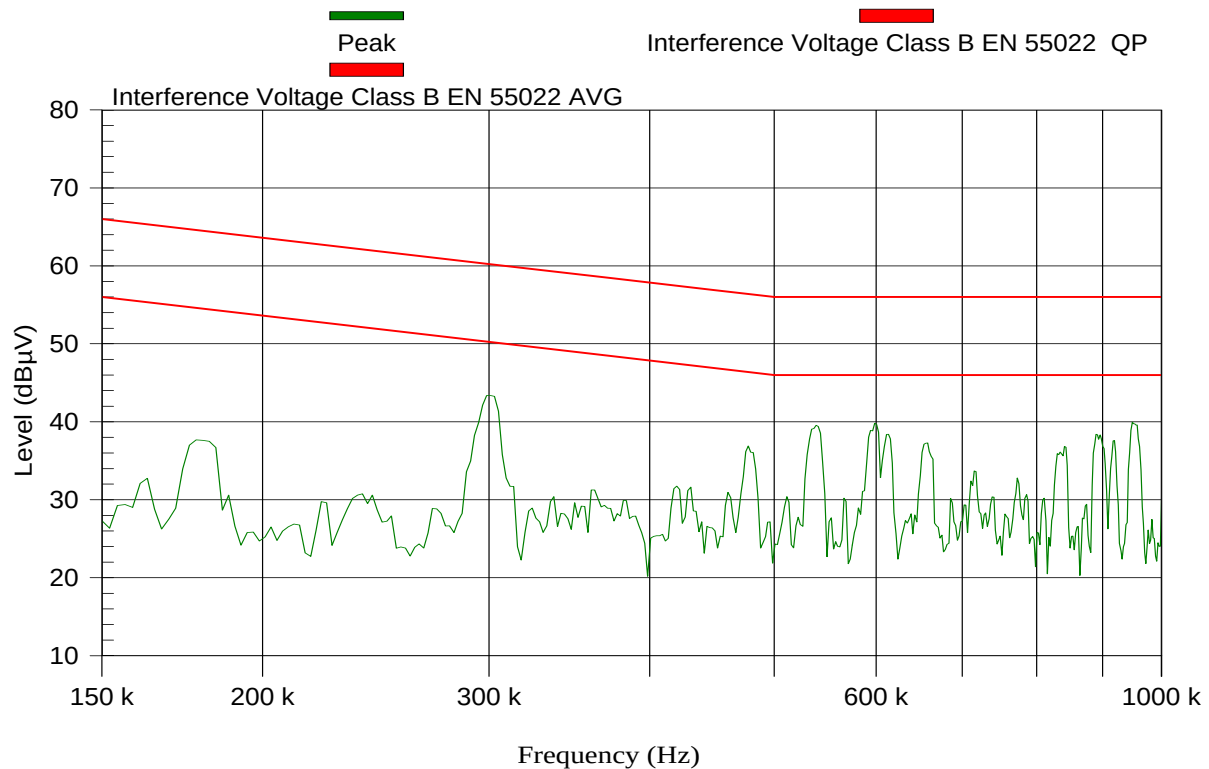
Test Results Plot No 3

CE EN 55022 CLASS B 0.15-1 MHz NEUTRAL

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FB1CA	Ref. Level:	80 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	No Description Available	Sweep Time:	Auto: 23.61 ms
Polarization:		Pre Amplifier	Attenuator 20db

TEST REMARKS: 04 March 2010 11:22:39

Neutral 110V AC



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

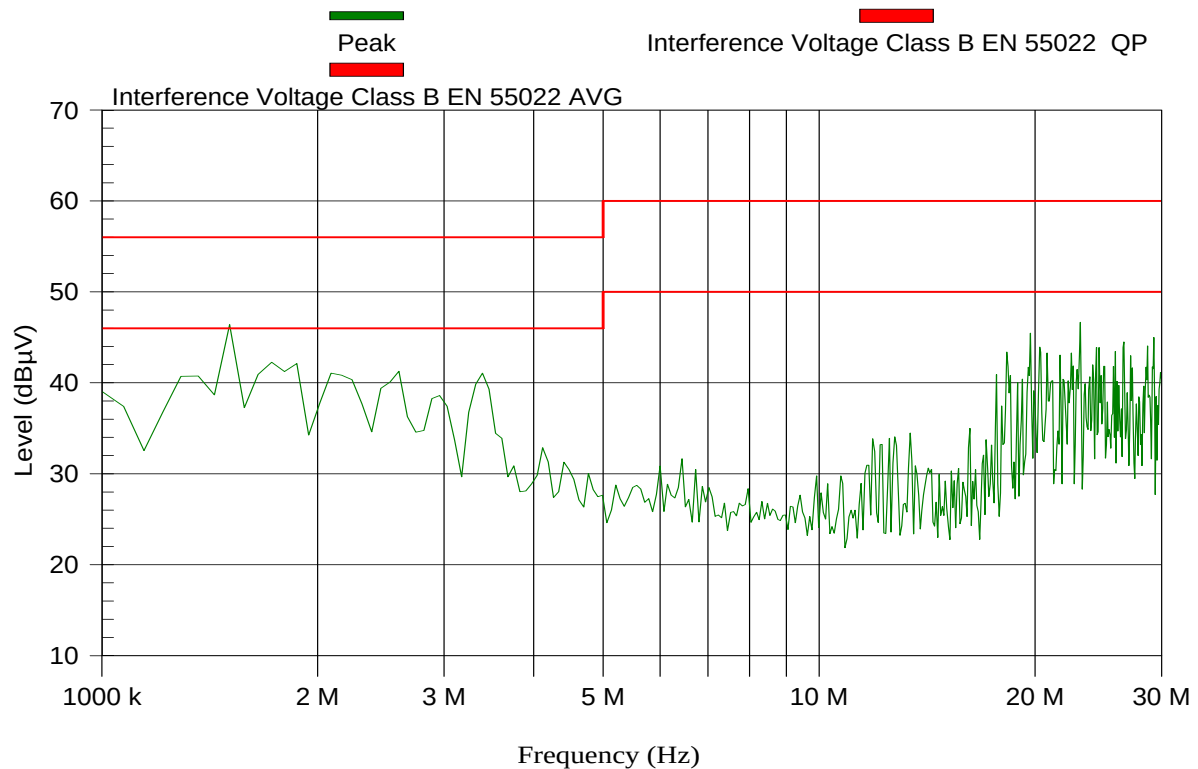
Test Results Plot No 4

CE EN 55022 CLASS B 1-30 MHz NEUTRAL

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C26FB1CA	Ref. Level:	80 dB μ V
Date of Test:	04.03.2010	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	1000 kHz
Antenna:	No Description Available	Sweep Time:	Auto: 805.57 ms
Polarization:		Pre Amplifier	Attenuator 20db

TEST REMARKS: 04 March 2010 11:28:03

Neutral 110V AC

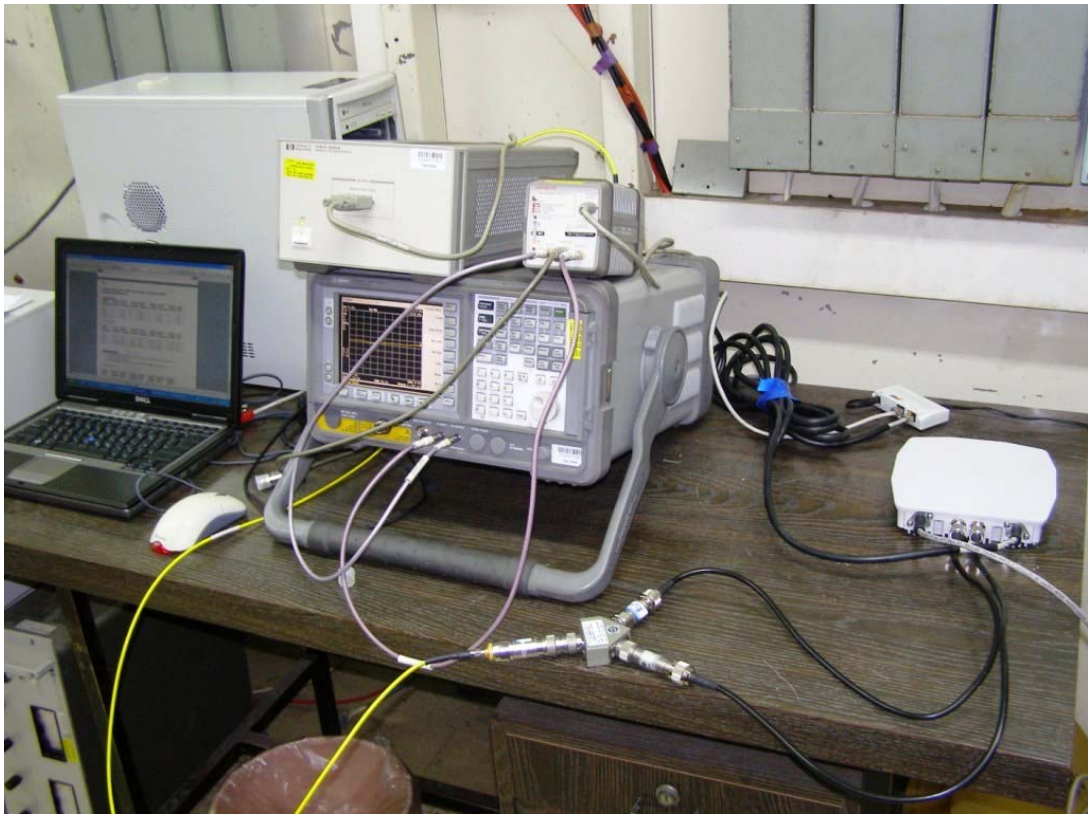


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V)	AVG Value (dB μ V)	QP Value (dB μ V)	AVG Limit (dB μ V)	QP Limit (dB μ V)	Result	Line
1	1.529	47	43.8	45.7	46	56	Pass	Neutral
2	1.78	43.3	31.8	40.5	46	56	Pass	Neutral
3	23.132	48.8	45.1	45.2	50	60	Pass	Neutral

8. **PHOTOGRAPHS**



General Conducted Emission Setup

