



TEST REPORT nr. R19089201

Federal Communication Commission (FCC)

Test item

Description.....: PUCK-TYPE BLUETOOTH LOW ENERGY BEACON
Trademark.....: PYRAMID COMPUTER
Model/Type: PLS PUCK
FCC ID: 2AT5MPLS-V6

Test Specification

Standard.....: FCC Rules & Regulations, Title 47:2018
Part 15 paragraph(s): 203, 204, 205, 207, 209 and 247

Client's name: BLUEUP S.r.l.s.

Address: Loc. Belvedere, Ingresso 2 – 53034 Colle Val d'Elsa (SI) – ITALY

Manufacturer's name : PYRAMID COMPUTER GmbH

Address: Bötzing Str. 60 – 79111 Freiburg im Breisgau – GERMANY

Report

Tested by: M. Segalla

Approved by: R. Beghetto – Laboratory Manager

Date of issue: 27.09.19

Contents.....: 93 pages

M. Segalla
R. Beghetto

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The test results presented in this report relate only to the item tested.



Index

1. SUMMARY	3
2. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	4
2.1 TEST SITE	4
3. TESTING AND SAMPLING	4
4. OPERATIVE CONDITIONS	4
5. PHOTOGRAPH(S) OF EUT	5
5.1 PHOTOGRAPH(S) OF EUT	5
6. EQUIPMENT LIST	6
7. MEASUREMENT UNCERTAINTY	7
8. REFERENCE DOCUMENTS	9
9. DEVIATION FROM TEST SPECIFICATION	10
10. TEST CASE VERDICTS	10
11. RESULTS	11
11.1 ANTENNA REQUIREMENTS	12
11.2 EMISSIONS IN RESTRICTED FREQUENCY BANDS AND IN UNRESTRICTED FREQUENCY BANDS	13
11.3 DTS BANDWIDTH	66
11.4 BAND EDGE	71
11.5 FUNDAMENTAL EMISSION OUTPUT POWER	77
11.6 MAXIMUM POWER SPECTRAL DENSITY LEVEL IN THE FUNDAMENTAL EMISSION	83
11.7 SPURIOUS EMISSION	89



1. Summary

Standard:

FCC Rules & Regulations, Title 47:2018

Part 15 paragraph(s): 203, 204, 205, 207, 209 and 247

Test specifications	Environmental Phenomena	Tests sequence	Result
Part 15.203	Antenna requirements	1	Complies
Part 15.207	Conducted emissions	--	N.A. (+)
Part 15.209	Emissions in restricted frequency bands and in unrestricted frequency bands	2	Complies
Part 15.247 (a) (2)	DTS bandwidth	3	Complies
Part 15.247 (d)	Band edge	4	Complies
Part 15.209 and 15.247	Fundamental emission output power	5	Complies
Part 15.209 and 15.247	Maximum power spectral density level in the fundamental emission	6	Complies
Part 15.209	Spurious emission	7	Complies

(+) Devices which only employ battery power. See FCC Part 15.207 (c)

The Test Report was given to the Client representatives for necessary documentation of ratification of the tested equipment and it is valid for the FCC certification



5. Photograph(s) of EUT

5.1 Photograph(s) of EUT





6. Equipment list

<i>Id. number</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Description</i>	<i>Serial number</i>	<i>Last calibration</i>	<i>Due date calibration</i>
CMC S108	EMCO	3115	Horn Antenna	9811-5622	June '16	June '19
CMC S127	Schaffner	HLA6120	Loop Antenna	1191	November '18	November '23
CMC S164	Rohde & Schwarz	ESU26	EMC interference receiver	100052	January '19	January '20
CMC S206	Rohde & Schwarz	ESCI 7	EMC Receiver 9KHz-7GHz	100781	January '19	January '20
CMC S260	CMC	Wfr_N	Shielded Cable	Wfr_ant10-1	November '18	November '19
CMC S261	CMC	Wfr_N	Shielded Cable	Wfr_ant20-1	November '18	November '19
CMC S262	CMC	Wfr_N_fix	Shielded Cable	Wfr_fix32-1	November '18	November '19
CMC S263	CMC	Wfr_N_fix	Shielded Cable	Wfr_fix31-1	November '18	November '19
CMC S264	CMC	Wfr_N	Shielded Cable	Wfr_ext03-1	November '18	November '19
CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	Biconical Antenna (30-300MHz)	831	June '16	June '19
CMC S287	Schwarzbeck	VUSLP 9111B	Log-periodic Antenna (200 MHz-3GHz)	9111B-203	June '16	June '19
CMC S290	Schwarzbeck	BBHA 9170	Horn Antenna (15-40 GHz)	733	October '16	October '19



7. Measurement uncertainty

Test	Test Setup	Expanded uncertainty	Note
Conducted emission CISPR 16 LISN 50uH 0,009-0,0150MHz	PE001_01	3,4 dB	1
Conducted emission CISPR 16 LISN 50uH 0,150-30,0MHz	PE001_01	3,0 dB	1
Conducted emission CISPR 16 Voltage Probe 0,15-30MHz	PE001_02	2,9 dB	1
Conducted emission CISPR 16 Current Probe 0,15-30MHz	PE001_03	2,6 dB	1
Conducted emission CISPR 16 ISN 0,15-30MHz	PE001_04	4,7 dB	1
Clic CISPR 16 LISN 50uH 0,150-30,0MHz	PE001_05	3,1 dB	1
Disturbance Power 30-300 MHz	PE002_01	3,6 dB	1
Radiated Emission LAS 0,15-30MHz	PE003_01	2,0 dB	1
Radiated Emission CISPR 16 Loop Ant. 0,15-30MHz	PE004_01	4,0 dB	1
Radiated Emission CISPR 16 Bicon. Ant. 30-300MHz	PE004_02	3,9 dB	1
Radiated Emission CISPR 16 LogP. Ant. 300-1000MHz	PE004_03	3,8 dB	1
Radiated Emission CISPR 16 Horn Ant. 1-18GHz	PE004_04	4,2 dB	1
Human Exposure to electromagnetic fields	PE005_01	23,6 %	1
Harmonic current emissions test	PE006_01	10 mA + 2,6 %	1
Voltage fluctuation and flicker test	PE007_01	4,8 %	1
Radiated Immunity 80MHz-6GHz	PE102_XX	2,1 dB 0,82 V/m a 3V/m	1
Conducted Immunity 0,15-230MHz	PE105_XX	1,2 dB 0,44 V a 3V	1
AC Magnetic field	PE106_01	1,55 % 0,15 A/m a 10A/m	1
Pulse Magnetic field	PE107_01	6,25 % 18,7 A/m a 300A/m	1
Dumped Magnetic field	PE108_01	6,25 % 1,87 A/m a 30A/m	1
Common mode conducted immunity	PE112_01	2,21 % 0,22 V a 10V	1



Test	Test Setup	Expanded uncertainty	Note
Power/Spurious 9kHz-30MHz	PR001_01	4,0 dB	1
Power/Spurious ERP 30-1000MHz d=10m	PR001_02+03	4,7 dB	1
Misura della potenza EIRP 1-18GHz d=3m	PR001_04	4,7 dB	1
Misura della potenza EIRP 18-40GHz d=3m	PR001_05	5,4 dB	1
Frequency error	PR002_01+02	< 1x10 ⁻⁷	1
Timing zero span (1001pts.)	PR002_01+02	0,2 % SWT	1
Modulation bandwidth	PR002_01+02	< 1x10 ⁻⁷	1
Conducted RF power and spurious emission	PR002_01+02	1,1 dB	1
Adjacent channel power	PR002_01+02	1,1 dB	1
Blocking	PR002_01+02	1,1 dB	1

Test	Test Setup	Expanded uncertainty	Note
Electrostatic discharge immunity test	PE101_0X		2
Electrical fast transients / burst immunity test	PE103_0X		2
Surge immunity test	PE104_0X		2
Short interruption immunity test	PE109_01		2
Rev_19_02 date 27/03/2019			

Note 1:

The expanded uncertainty reported according to the document EA-4-02 is based on a standard uncertainty multiplied by a coverage factor of K=2, providing a level of confidence of p = 95%

Note 2:

It has been demonstrated that the used test equipment meets the specified requirements in the standard with at least a 95% confidence, covering factor k = 2



8. Reference documents

Reference no.	Description
FCC Rules and Regulation Title 47 part 15:2018 KDB 558074 D01 15.247 Meas Guidance v05r02	-- Guidance for compliance measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices operating under section 15.247 of the FCC rules
ANSI C63.4:2014	American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz
ANSI C63.10:2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Internal Procedure PM001 rev. 3.0 (Quality Manual)	Measure Procedure
Internal procedure INC_M rev. 9.1 (Quality Manual)	Measurement uncertainty calculation



9. Deviation from test specification

None

10. Test case verdicts

Test case does not apply to the test object : N.A.

Test item does meet the requirement : Complies

Test item does not meet the requirement : Does not comply

Test not performed : N.E.

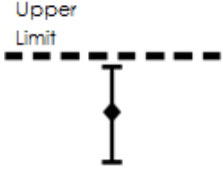
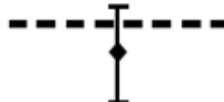
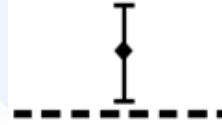


11. Results

In this clause tests results are reported.

Measurement uncertainty is in accordance with document CMC INC_M rev. 9.1.

Judgement of compliance:

Case 1	Case 2	Case 3	Case 4
			
The sample complies with the requirement.	The sample complies with the requirement.	The sample does not comply with the requirement.	The sample does not comply with the requirement.
The measurement results is within the specification limit when the measurement uncertainty is taken into account.	It is not possible to state compliance using a 95% coverage probability for the expanded uncertainty although the measurement result is below the limit.	It is not possible to state compliance using a 95% coverage probability for the expanded uncertainty also the measurement result is upper the limit.	The measurement results is outside the specification limit when the measurement uncertainty is taken into account.

In agreement with ILAC-G8: 03/2009 Guidelines on the Reporting of Compliance with Specification.



11.1 Antenna requirements

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.203 and 15.204
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Laboratory

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

--
Measurement uncertainty: See clause 7 of this test report

Test specification

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31 (d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Result

Antenna Type	External R.F. power amplifier	Gain	Remarks	Results
Integrated antenna	Not Present	0 dBi	--	Complies

Result: The requirements are met



11.2 Emissions in restricted frequency bands and in unrestricted frequency bands

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part. 15.209
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Semi-anechoic chamber

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S127, CMC S164, CMC S271,
CMC S287, CMC S290
Measurement uncertainty: See clause 7 of this
test report

Test specification

Port: Enclosure
Frequency range: 0,009 MHz – 26000 MHz
Antenna polarization: Horizontal (H) – Vertical (V)
10 m for frequencies ≤ 30 MHz
3 m for frequencies > 30 MHz

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
22	100	45

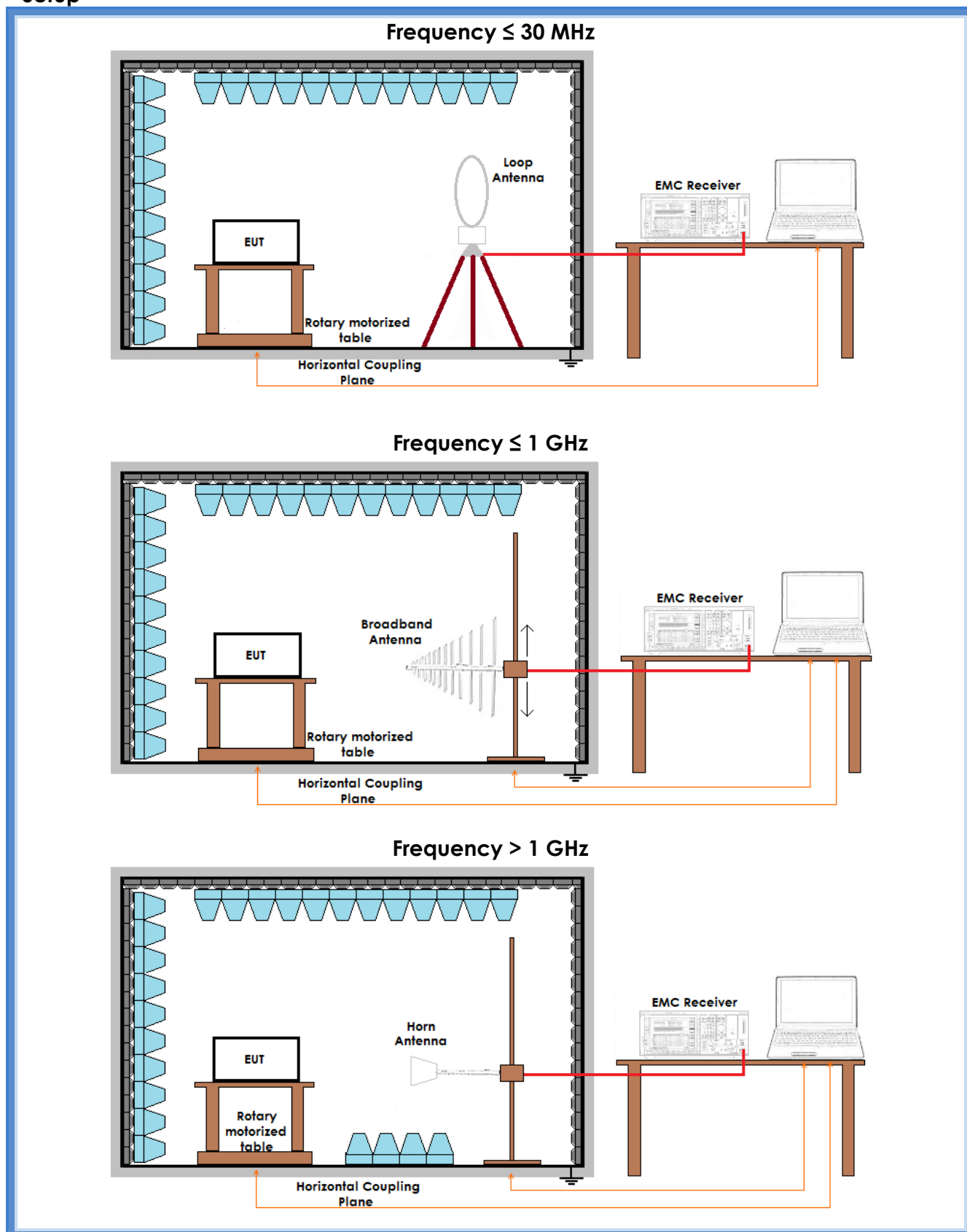
Acceptance limits

Frequency range (MHz)	Test distance (m)	Limits [dB(μ V/m)]	
0,009 to 0,490	300	48,5 to 13,8	
0,490 to 1,705	30	33,8 to 22,9	
1,705 to 30	30	29,5	
30 to 88	3	40	
88 to 216	3	43,5	
216 to 960	3	46,0	
Above 960	3	53,9	
	Test distance (m)	Linear average detector [dB(μ V/m)]	Peak detector [dB(μ V/m)]
Above 1000	3	53,9	73,9

Remarks: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. The results have been extrapolated to the specified distance using an extrapolation factor



Setup





Result

Polarization	Frequency Range (MHz)	Graphs	Remarks	Result
Loop	0,009 – 30	G19089201	Worst case	Complies
V	30 – 300	G19089202	Worst case	Complies
H	30 – 300	G19089203	Worst case	Complies
H	300 – 1000	G19089204	Worst case	Complies
V	300 – 1000	G19089205	Worst case	Complies
H	1000 – 4000	G19089206	Lowest channel	Complies
V	1000 – 4000	G19089207	Lowest channel	Complies
V	1000 – 4000	G19089208	Medium channel	Complies
H	1000 – 4000	G19089209	Medium channel	Complies
H	1000 – 4000	G19089210	Highest channel	Complies
V	1000 – 4000	G19089211	Highest channel	Complies
V	4000 – 10000	G19089212	Highest channel	Complies
H	4000 – 10000	G19089213	Highest channel	Complies
H	4000 – 10000	G19089214	Medium channel	Complies
V	4000 – 10000	G19089215	Medium channel	Complies
V	4000 – 10000	G19089216	Lowest channel	Complies
H	4000 – 10000	G19089217	Lowest channel	Complies
H	10000 – 18000	G19089218	Lowest channel	Complies
V	10000 – 18000	G19089219	Lowest channel	Complies
V	10000 – 18000	G19089220	Medium channel	Complies
H	10000 – 18000	G19089221	Medium channel	Complies
H	10000 – 18000	G19089222	Highest channel	Complies
V	10000 – 18000	G19089223	Highest channel	Complies
V	18000 – 26000	G19089224	Worst case	Complies
H	18000 – 26000	G19089225	Worst case	Complies

Remarks: Measurements at frequencies lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with different conversion factors, based on the measuring distance provided by the standard. Peaks above the limits are caused by the nominal transmitting frequencies or fall into non-restricted frequency bands. For the assessment of conformity of these latter peaks, see cl. 10.10 of this Test Report

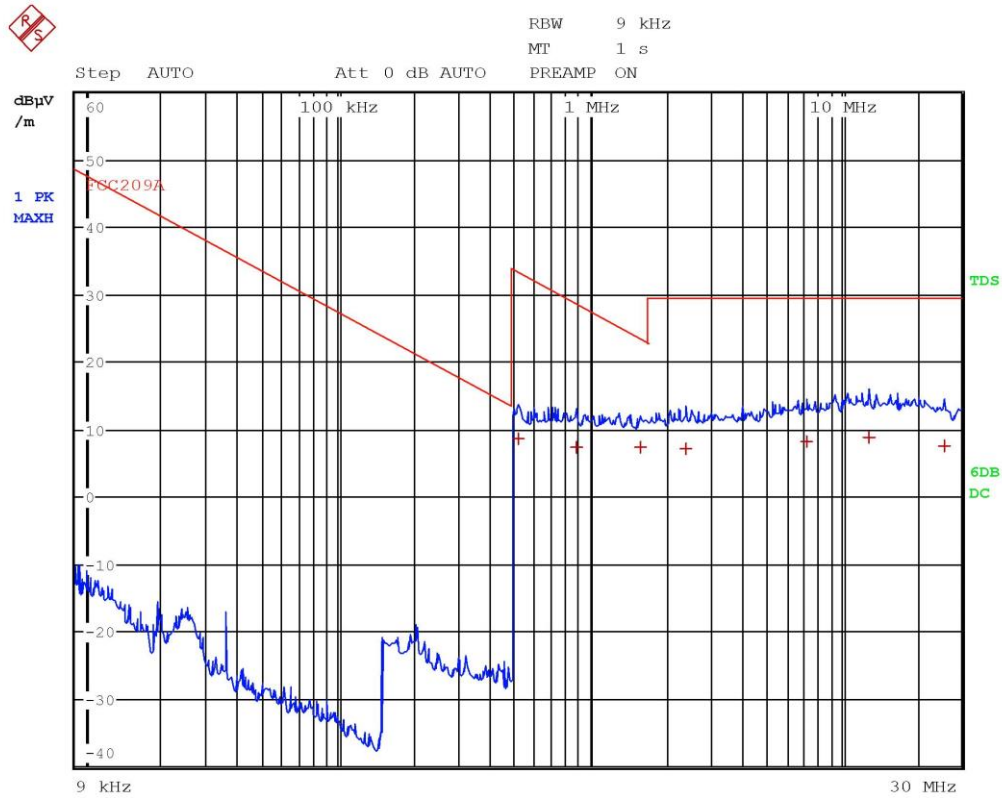
Graphs Legend

PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a +

AV: Average; AV [1s] (average at 1 second) values are marked with a x



Graphs

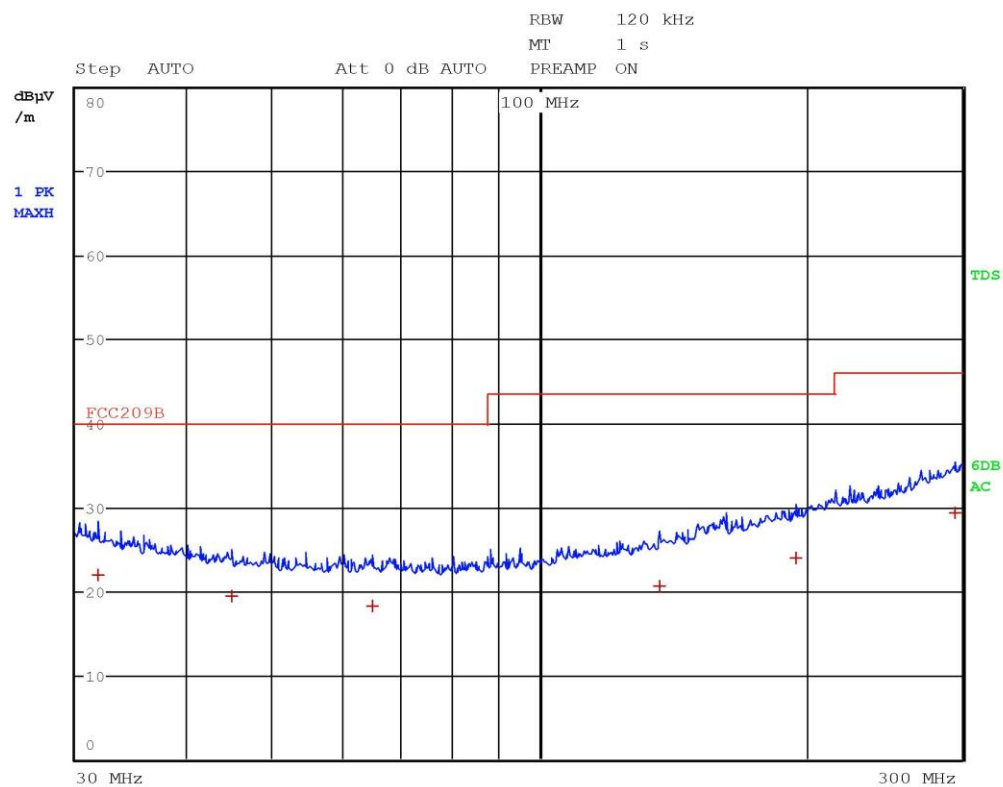


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EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209A		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	514 kHz	8.65	-24.72
1 Quasi Peak	886 kHz	7.46	-21.18
1 Quasi Peak	1.59 MHz	7.32	-16.25
1 Quasi Peak	2.41 MHz	7.09	-22.44
1 Quasi Peak	7.314 MHz	8.21	-21.32
1 Quasi Peak	12.954 MHz	8.80	-20.73
1 Quasi Peak	25.566 MHz	7.62	-21.91

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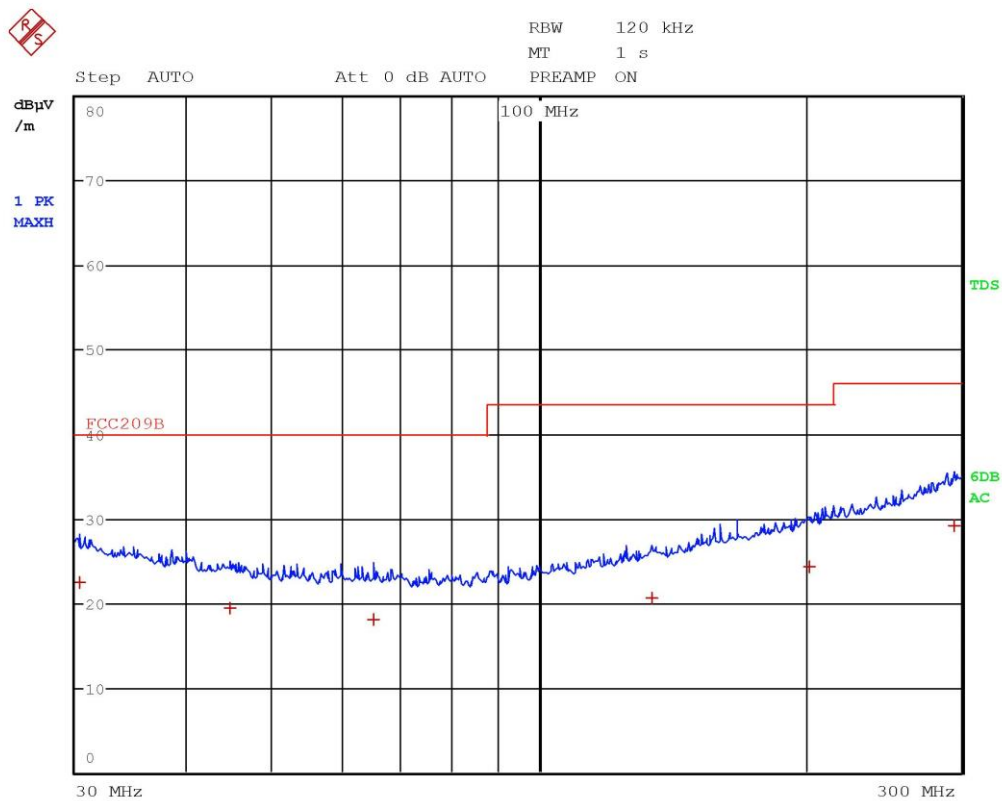


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EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	31.76 MHz	21.86	-18.13
1 Quasi Peak	45 MHz	19.46	-20.53
1 Quasi Peak	64.76 MHz	18.22	-21.77
1 Quasi Peak	136.84 MHz	20.66	-22.85
1 Quasi Peak	194.48 MHz	24.02	-19.49
1 Quasi Peak	294.52 MHz	29.26	-16.75

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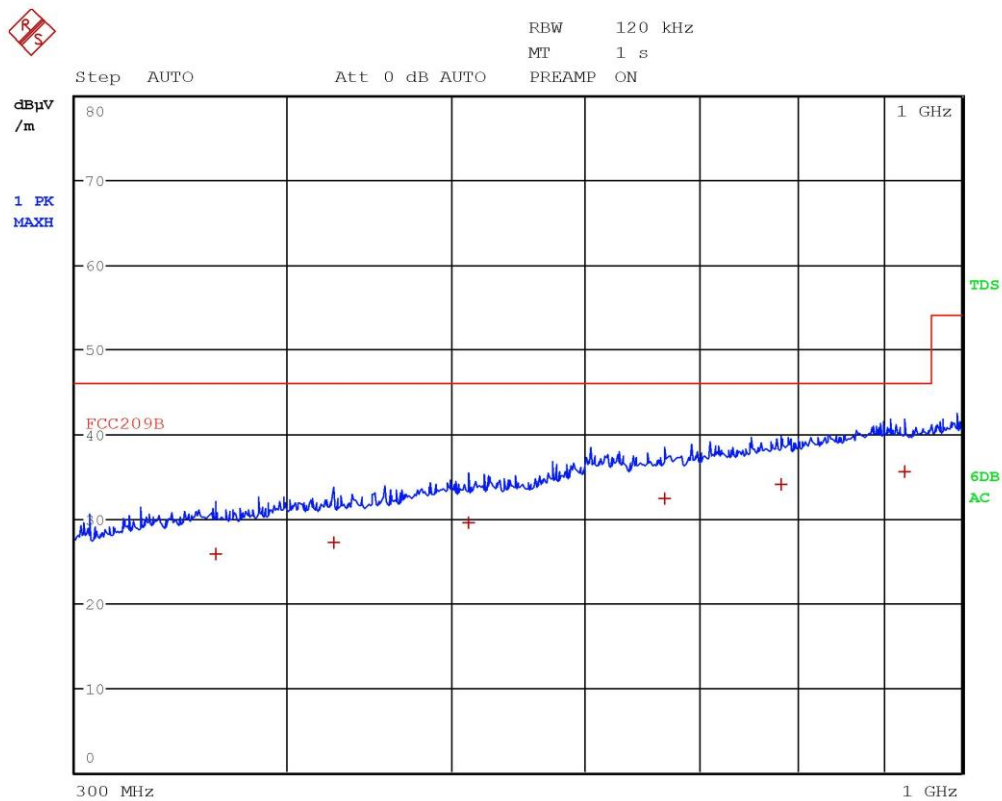


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EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	30.32 MHz	22.48	-17.52
1 Quasi Peak	44.88 MHz	19.41	-20.58
1 Quasi Peak	65.16 MHz	18.09	-21.90
1 Quasi Peak	134 MHz	20.51	-23.01
1 Quasi Peak	201.76 MHz	24.35	-19.16
1 Quasi Peak	295 MHz	29.24	-16.77

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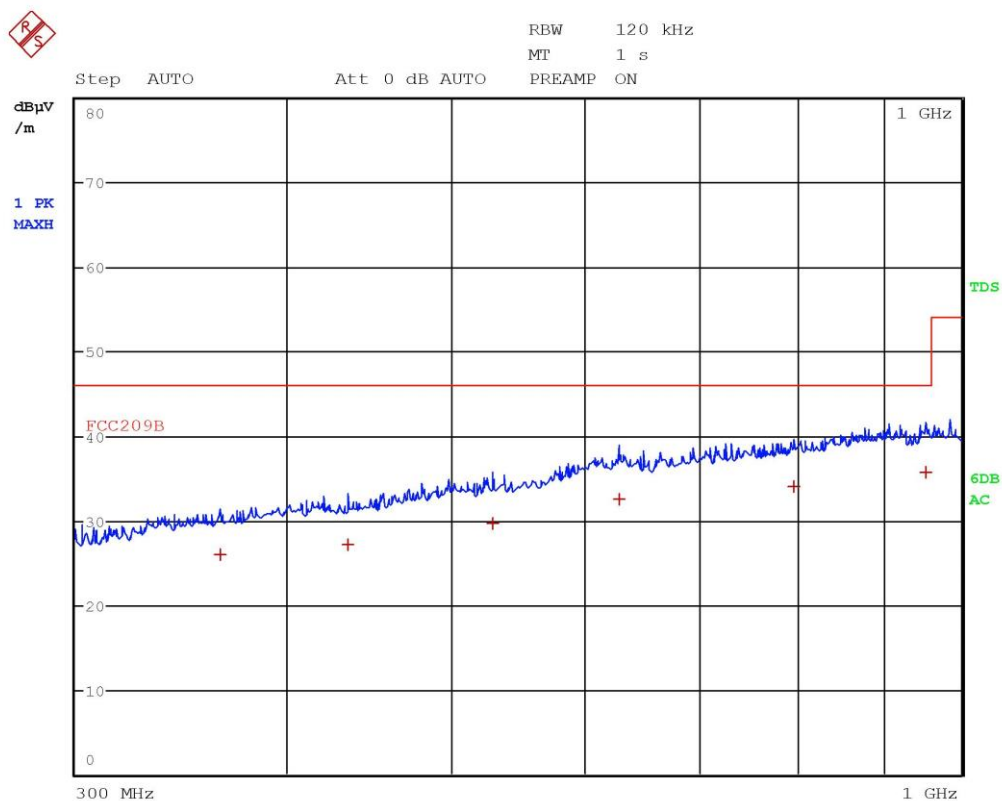


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EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	363.36 MHz	25.78	-20.23
1 Quasi Peak	425.84 MHz	27.14	-18.87
1 Quasi Peak	511.76 MHz	29.48	-16.53
1 Quasi Peak	667.64 MHz	32.41	-13.60
1 Quasi Peak	782.76 MHz	33.97	-12.04
1 Quasi Peak	925.76 MHz	35.57	-10.44

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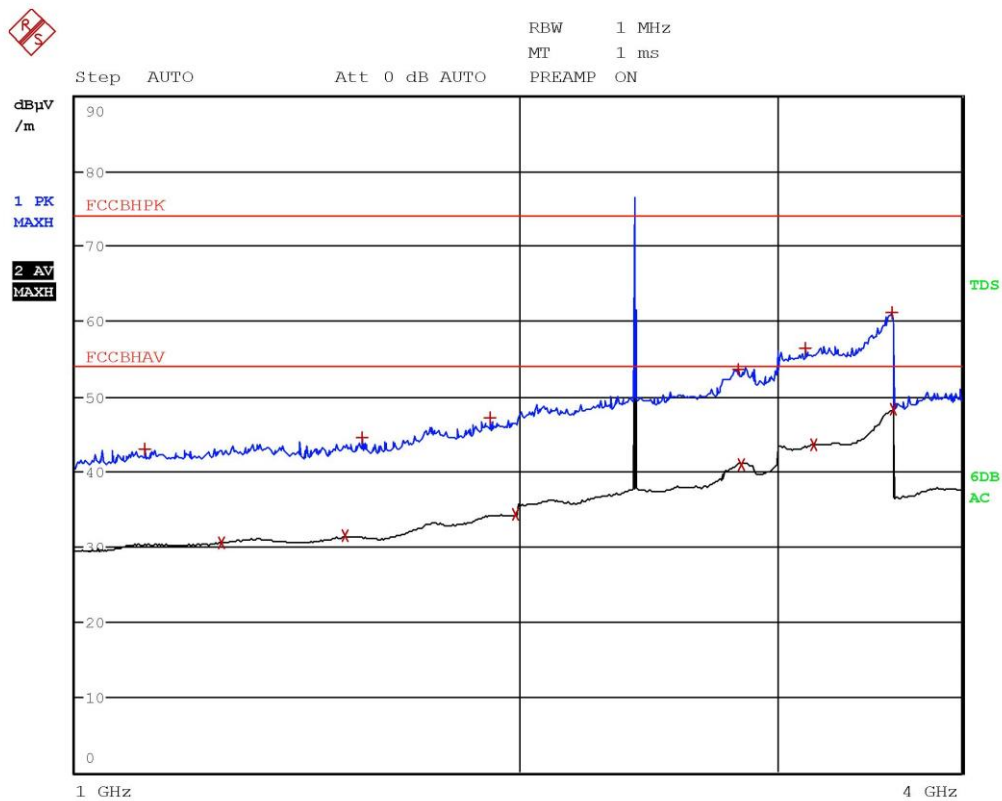


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EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	365.24 MHz	25.89	-20.13
1 Quasi Peak	434.24 MHz	27.15	-18.86
1 Quasi Peak	528.96 MHz	29.70	-16.31
1 Quasi Peak	628.56 MHz	32.44	-13.57
1 Quasi Peak	796.68 MHz	34.00	-12.02
1 Quasi Peak	952.12 MHz	35.72	-10.29

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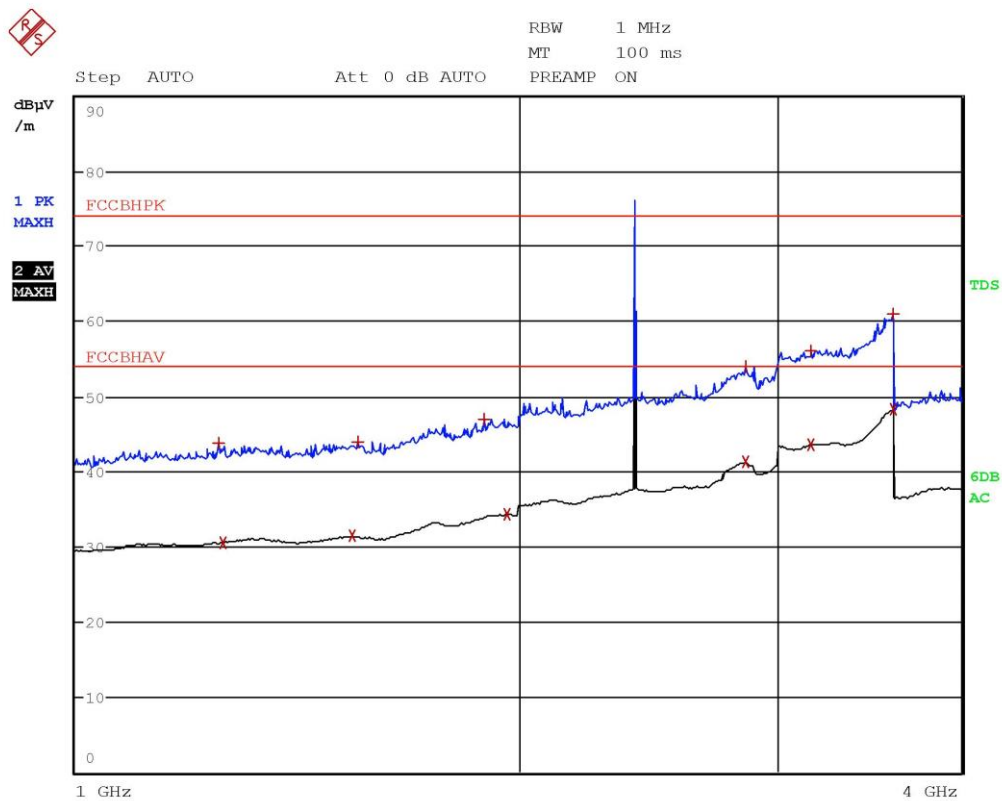


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	1.1148 GHz	43.08	-30.89
2 Average	1.258 GHz	30.53	-23.44
2 Average	1.524 GHz	31.43	-22.55
1 Max Peak	1.5644 GHz	44.56	-29.41
1 Max Peak	1.9132 GHz	47.13	-26.85
2 Average	1.9896 GHz	34.32	-19.65
1 Max Peak	2.8244 GHz	53.52	-20.45
2 Average	2.8336 GHz	40.95	-13.02
1 Max Peak	3.1316 GHz	56.41	-17.56
2 Average	3.1748 GHz	43.58	-10.39
1 Max Peak	3.5896 GHz	61.19	-12.78
2 Average	3.5992 GHz	48.32	-5.65

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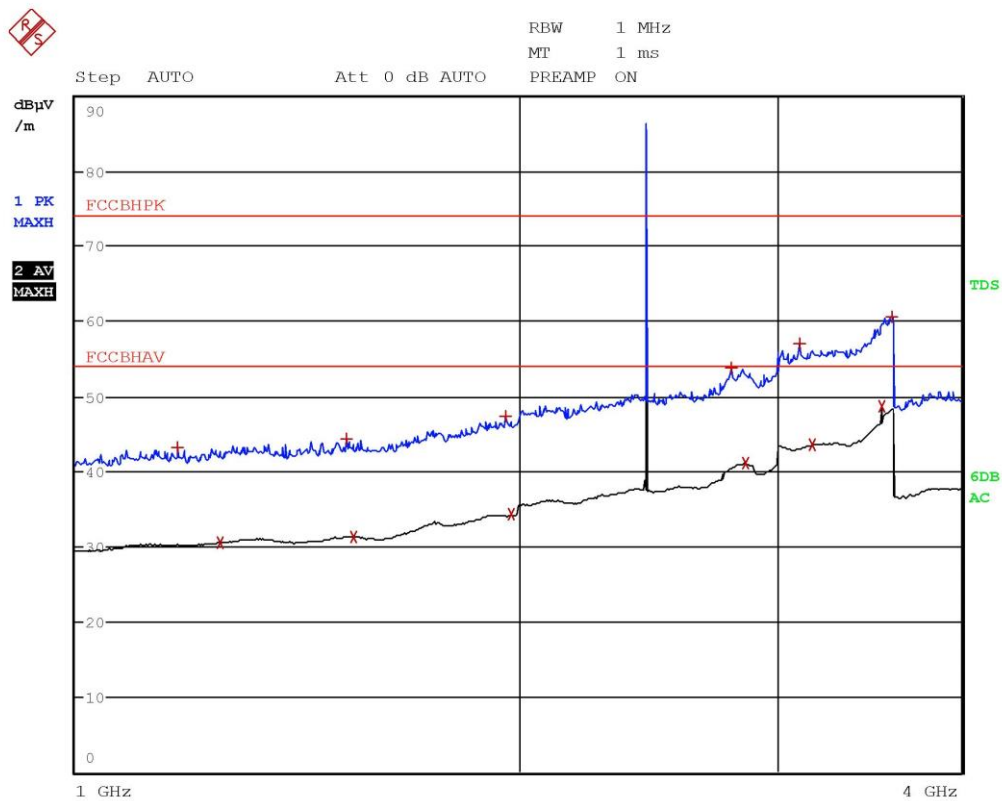


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	1.2516 GHz	43.75	-30.22
2 Average	1.2592 GHz	30.62	-23.35
2 Average	1.5408 GHz	31.39	-22.58
1 Max Peak	1.554 GHz	43.93	-30.04
1 Max Peak	1.8972 GHz	46.97	-27.00
2 Average	1.9648 GHz	34.29	-19.68
1 Max Peak	2.8512 GHz	53.95	-20.02
2 Average	2.854 GHz	41.22	-12.75
1 Max Peak	3.1576 GHz	56.01	-17.96
2 Average	3.16 GHz	43.59	-10.38
1 Max Peak	3.5936 GHz	61.04	-12.93
2 Average	3.5976 GHz	48.29	-5.69

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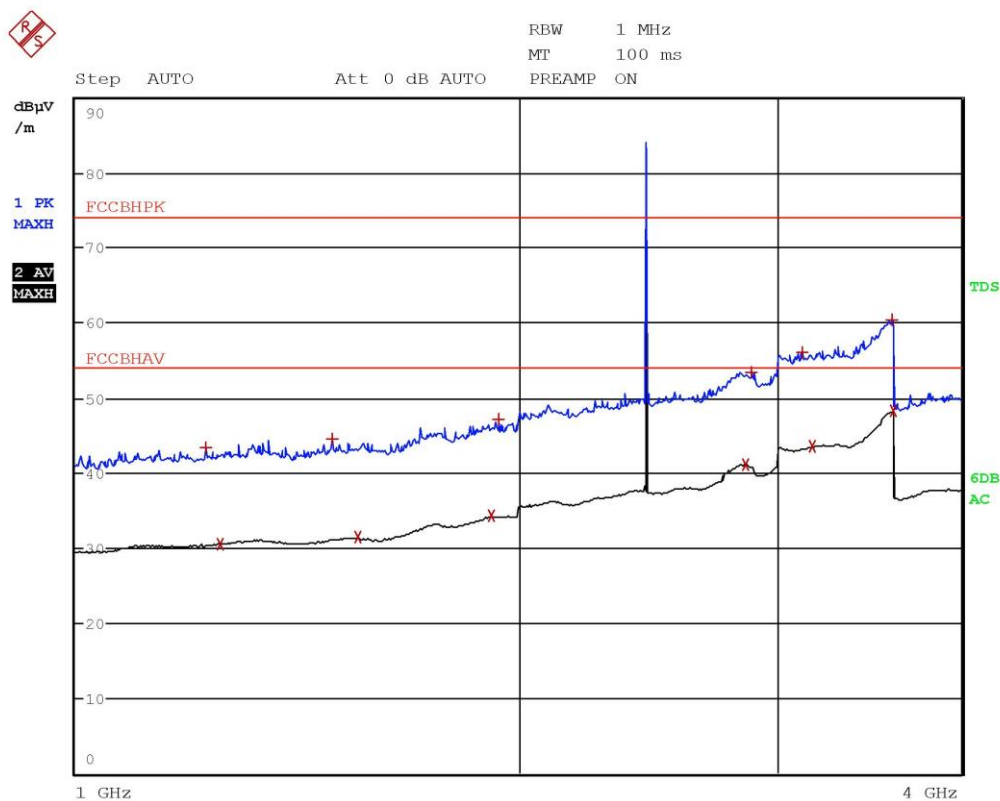


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	1.1732 GHz	43.11	-30.86
2 Average	1.254 GHz	30.59	-23.38
1 Max Peak	1.528 GHz	44.26	-29.71
2 Average	1.5456 GHz	31.36	-22.61
1 Max Peak	1.96 GHz	47.32	-26.65
2 Average	1.9764 GHz	34.29	-19.68
1 Max Peak	2.7936 GHz	53.78	-20.19
2 Average	2.8548 GHz	41.19	-12.78
1 Max Peak	3.1064 GHz	57.02	-16.95
2 Average	3.1688 GHz	43.66	-10.31
2 Average	3.5316 GHz	48.73	-5.24
1 Max Peak	3.5904 GHz	60.68	-13.29

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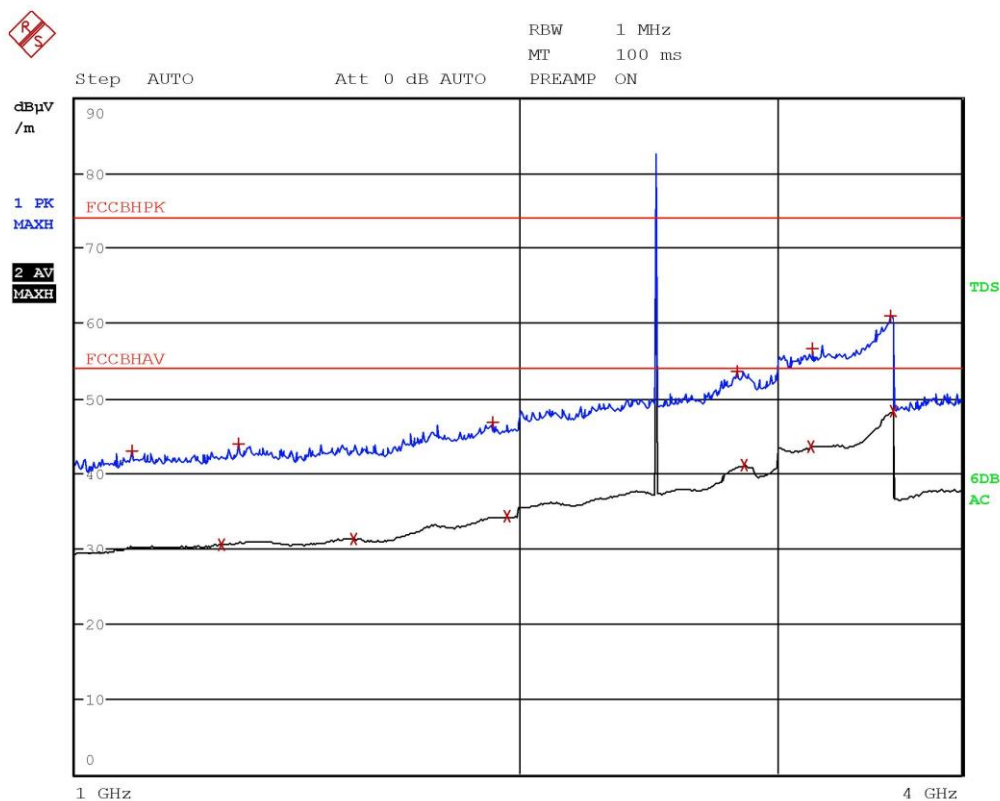


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	1.2272 GHz	43.35	-30.62
2 Average	1.2532 GHz	30.55	-23.42
1 Max Peak	1.4944 GHz	44.43	-29.54
2 Average	1.5552 GHz	31.42	-22.55
2 Average	1.9184 GHz	34.25	-19.72
1 Max Peak	1.9368 GHz	47.09	-26.88
2 Average	2.8548 GHz	41.11	-12.86
1 Max Peak	2.876 GHz	53.45	-20.52
1 Max Peak	3.1212 GHz	56.08	-17.89
2 Average	3.1644 GHz	43.52	-10.46
1 Max Peak	3.586 GHz	60.47	-13.51
2 Average	3.5988 GHz	48.35	-5.62

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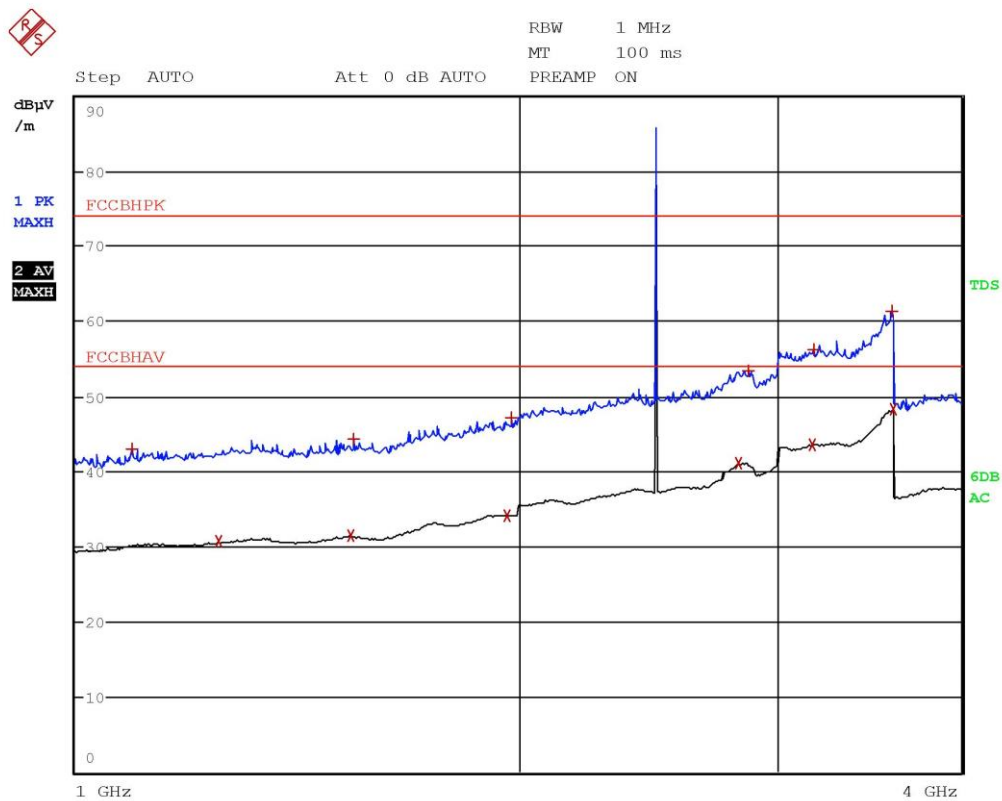


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	1.0932 GHz	43.07	-30.90
2 Average	1.2572 GHz	30.59	-23.38
1 Max Peak	1.2908 GHz	43.98	-29.99
2 Average	1.5444 GHz	31.32	-22.65
1 Max Peak	1.9216 GHz	46.83	-27.14
2 Average	1.9664 GHz	34.32	-19.65
1 Max Peak	2.8136 GHz	53.66	-20.31
2 Average	2.848 GHz	41.06	-12.91
2 Average	3.1576 GHz	43.55	-10.42
1 Max Peak	3.168 GHz	56.63	-17.35
1 Max Peak	3.5796 GHz	61.04	-12.93
2 Average	3.5944 GHz	48.33	-5.64

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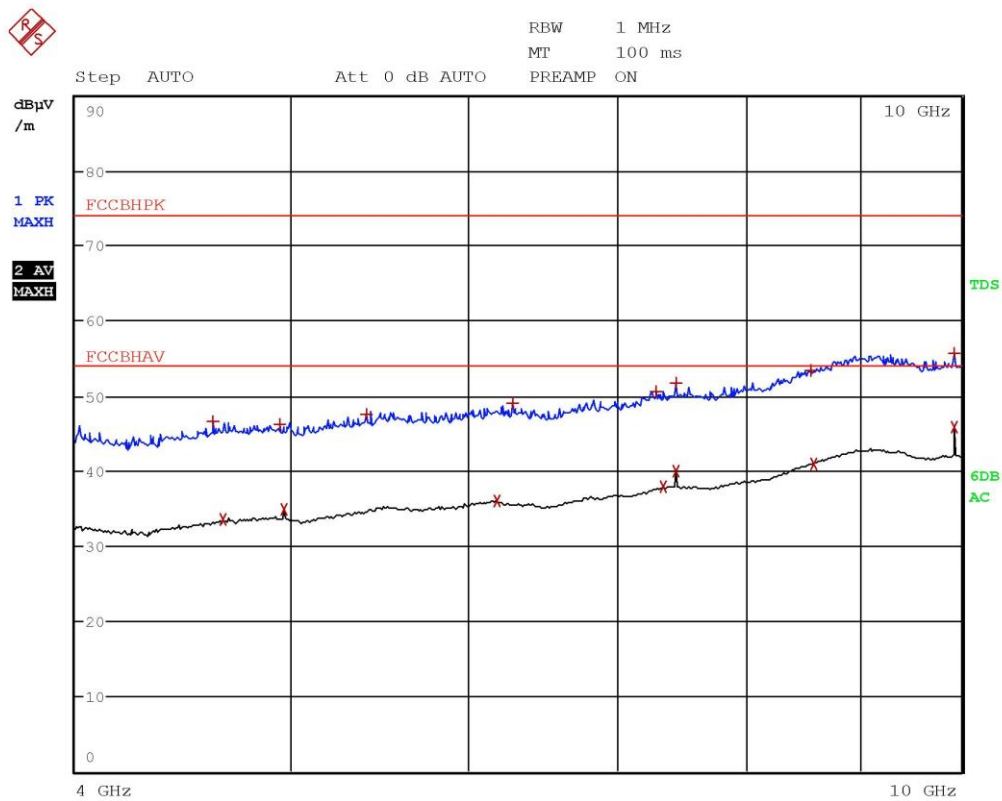


Segalla 19089211



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	1.092 GHz	43.00	-30.97
2 Average	1.252 GHz	30.71	-23.27
2 Average	1.5368 GHz	31.43	-22.54
1 Max Peak	1.5464 GHz	44.38	-29.59
2 Average	1.9664 GHz	34.21	-19.76
1 Max Peak	1.9756 GHz	47.19	-26.78
2 Average	2.8196 GHz	41.07	-12.90
1 Max Peak	2.8632 GHz	53.48	-20.49
2 Average	3.1648 GHz	43.62	-10.35
1 Max Peak	3.174 GHz	56.24	-17.73
1 Max Peak	3.5896 GHz	61.38	-12.59
2 Average	3.5988 GHz	48.33	-5.64

Segalla 19089211

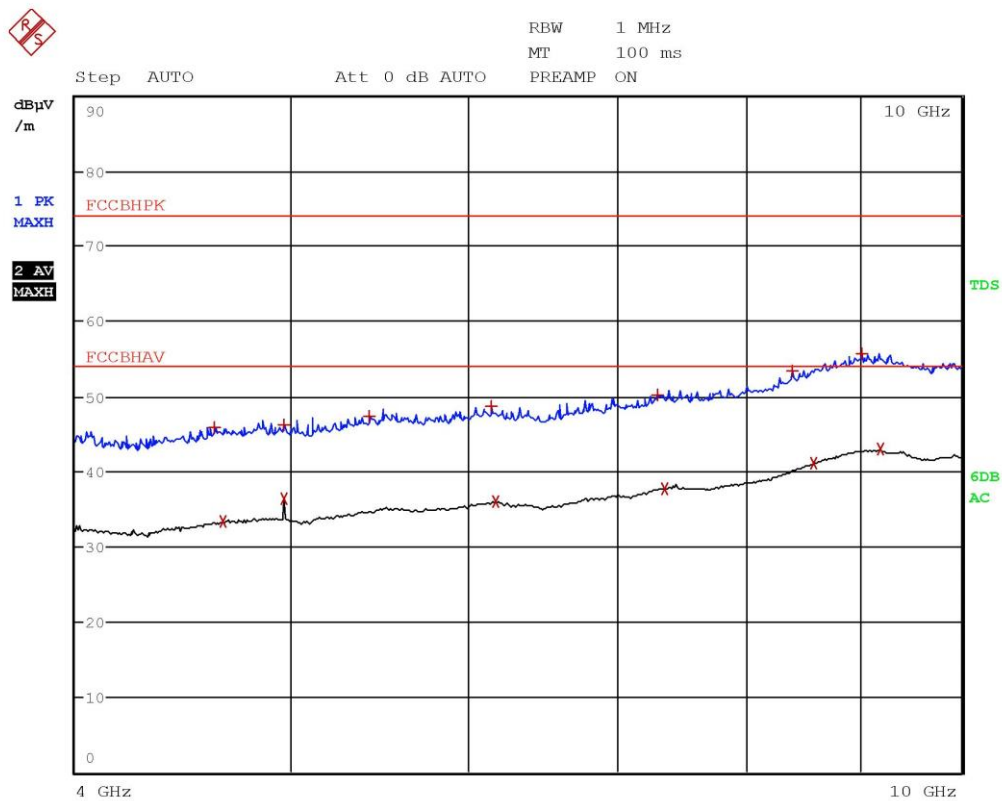


Segalla 19089212



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	4.6148 GHz	46.52	-27.46
2 Average	4.6584 GHz	33.47	-20.50
1 Max Peak	4.9396 GHz	46.16	-27.81
2 Average	4.960 GHz	34.96	-19.01
1 Max Peak	5.4072 GHz	47.61	-26.36
2 Average	6.1836 GHz	36.02	-17.95
1 Max Peak	6.2904 GHz	49.02	-24.95
1 Max Peak	7.2912 GHz	50.59	-23.38
2 Average	7.348 GHz	37.84	-16.13
2 Average	7.4402 GHz	40.03	-13.94
1 Max Peak	7.4402 GHz	51.68	-22.29
1 Max Peak	8.5572 GHz	53.42	-20.55
2 Average	8.5812 GHz	40.99	-12.98
2 Average	9.9216 GHz	45.87	-8.10
1 Max Peak	9.921 GHz	55.67	-18.30

Segalla 19089212

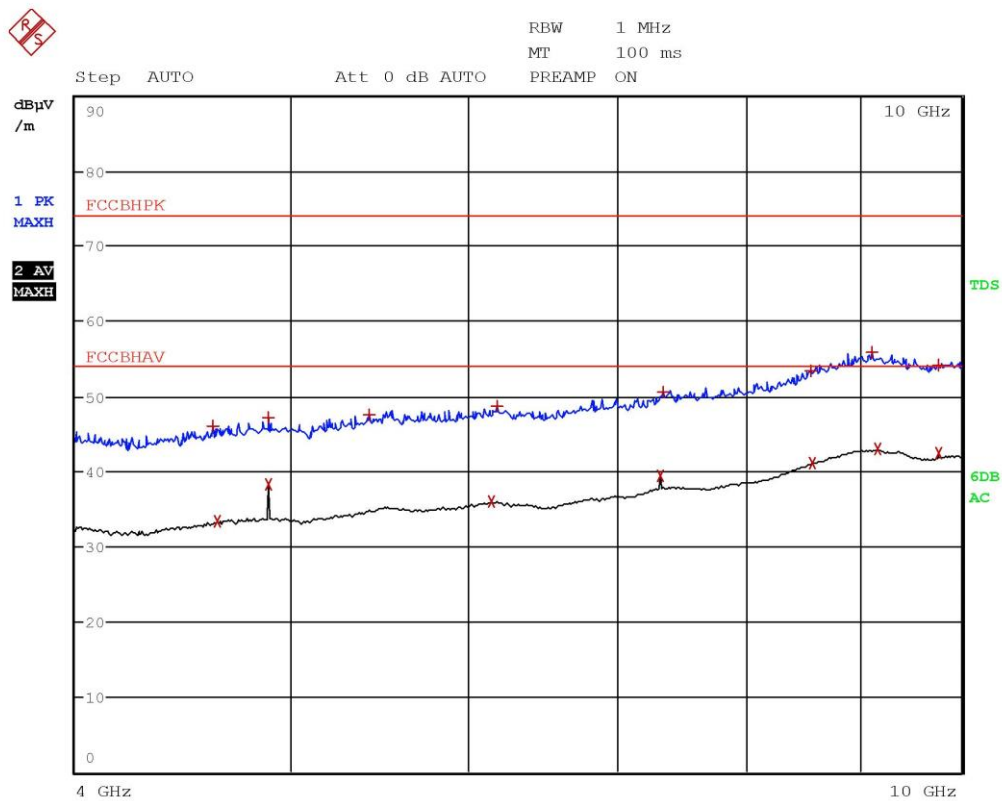


Segalla 19089213



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	4.6176 GHz	45.91	-28.06
2 Average	4.6596 GHz	33.28	-20.69
1 Max Peak	4.9596 GHz	46.18	-27.79
2 Average	4.960 GHz	36.35	-17.62
1 Max Peak	5.4208 GHz	47.40	-26.57
1 Max Peak	6.1476 GHz	48.61	-25.36
2 Average	6.178 GHz	35.99	-17.98
1 Max Peak	7.3056 GHz	50.23	-23.74
2 Average	7.3536 GHz	37.74	-16.23
1 Max Peak	8.3988 GHz	53.38	-20.60
2 Average	8.578 GHz	41.05	-12.92
1 Max Peak	9.0204 GHz	55.63	-18.34
2 Average	9.2004 GHz	43.08	-10.89

Segalla 19089213

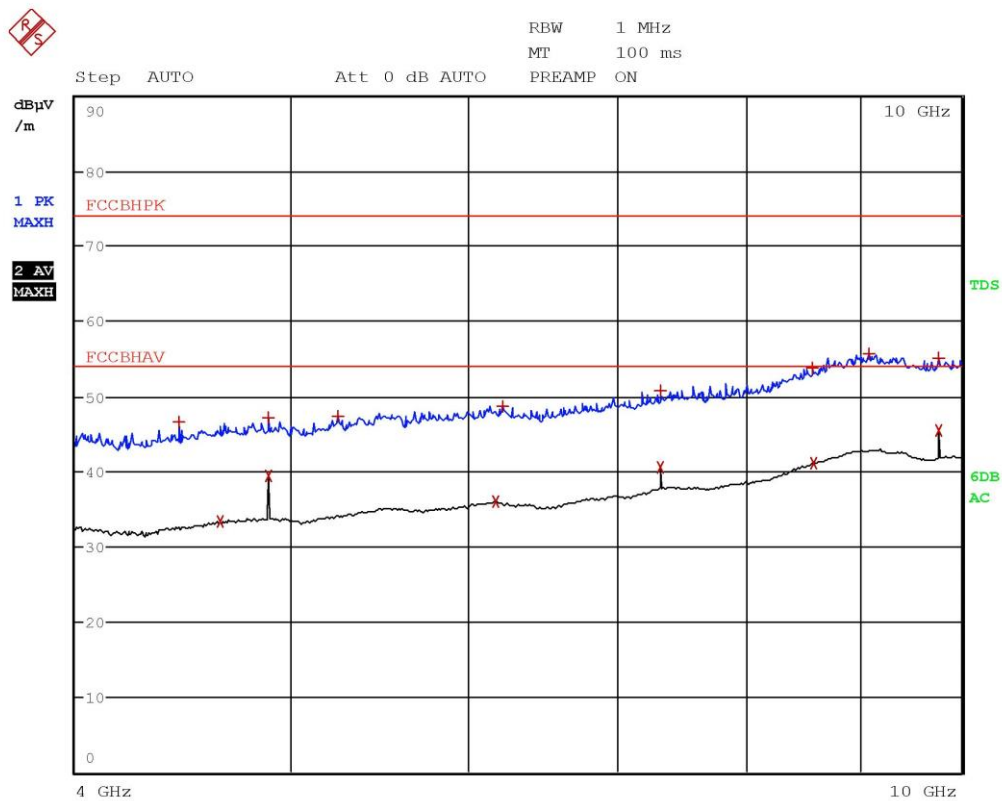


Segalla 19089214



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	4.6152 GHz	45.99	-27.98
2 Average	4.6352 GHz	33.27	-20.70
2 Average	4.882 GHz	38.32	-15.65
1 Max Peak	4.882 GHz	47.13	-26.84
1 Max Peak	5.4184 GHz	47.59	-26.38
2 Average	6.1528 GHz	35.96	-18.01
1 Max Peak	6.1824 GHz	48.64	-25.33
2 Average	7.3228 GHz	39.46	-14.51
1 Max Peak	7.3444 GHz	50.48	-23.49
1 Max Peak	8.5576 GHz	53.37	-20.60
2 Average	8.5724 GHz	41.08	-12.89
1 Max Peak	9.1152 GHz	55.91	-18.06
2 Average	9.1732 GHz	42.92	-11.05
2 Average	9.7648 GHz	42.51	-11.46
1 Max Peak	9.7656 GHz	54.14	-19.83

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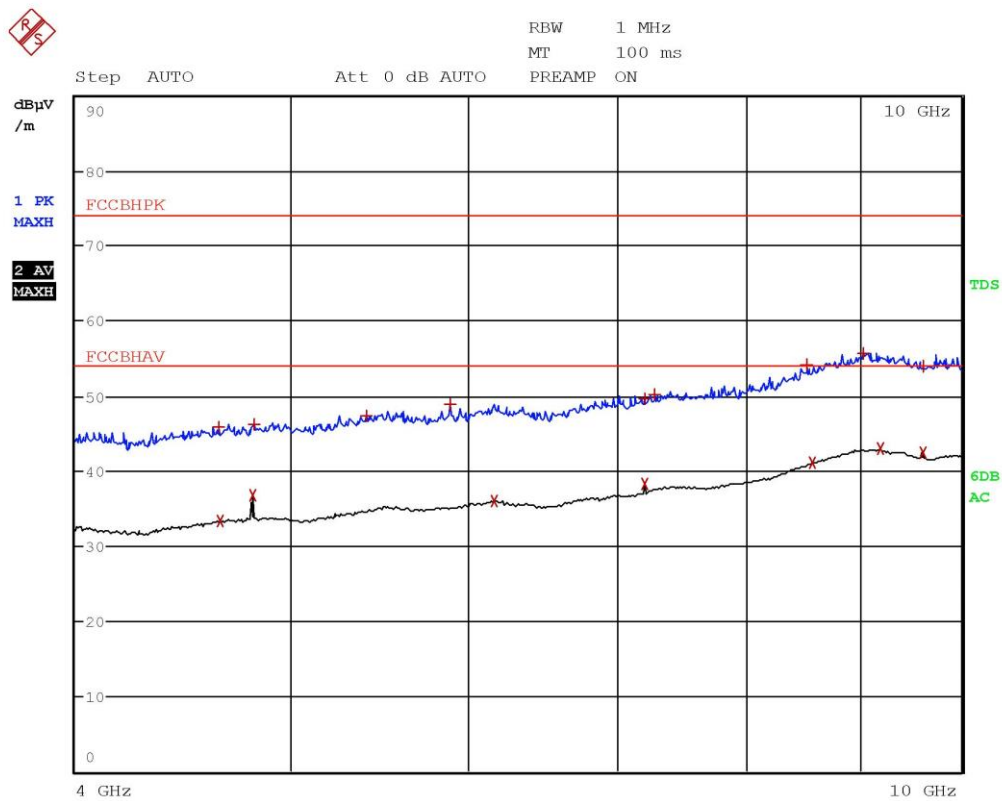


Segalla 19089215



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	4.4496 GHz	46.63	-27.34
2 Average	4.6432 GHz	33.32	-20.65
1 Max Peak	4.8816 GHz	47.25	-26.72
2 Average	4.882 GHz	39.35	-14.62
1 Max Peak	5.2484 GHz	47.38	-26.59
2 Average	6.1756 GHz	36.06	-17.91
1 Max Peak	6.2212 GHz	48.74	-25.24
2 Average	7.3228 GHz	40.56	-13.41
1 Max Peak	7.3236 GHz	50.73	-23.24
1 Max Peak	8.566 GHz	53.72	-20.25
2 Average	8.582 GHz	41.06	-12.91
1 Max Peak	9.0916 GHz	55.61	-18.37
2 Average	9.7636 GHz	45.40	-8.57
1 Max Peak	9.764 GHz	55.10	-18.87

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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	4.6364 GHz	45.93	-28.05
2 Average	4.6448 GHz	33.41	-20.56
2 Average	4.802 GHz	36.86	-17.11
1 Max Peak	4.814 GHz	46.30	-27.67
1 Max Peak	5.4036 GHz	47.35	-26.62
1 Max Peak	5.8976 GHz	48.88	-25.09
2 Average	6.1644 GHz	36.04	-17.93
1 Max Peak	7.2024 GHz	49.68	-24.29
2 Average	7.2028 GHz	38.28	-15.69
1 Max Peak	7.28 GHz	50.24	-23.73
1 Max Peak	8.5208 GHz	54.12	-19.85
2 Average	8.5688 GHz	41.07	-12.91
1 Max Peak	9.0348 GHz	55.77	-18.21
2 Average	9.1992 GHz	43.01	-10.96
2 Average	9.6044 GHz	42.51	-11.46
1 Max Peak	9.6164 GHz	53.94	-20.04

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