TEST REPORT

Reference No.	:	WTS16S0961002-2E V1
FCC ID	:	2AJVK-SP5513
Applicant	:	Foto Electric Supply Co., INC.
Address	:	1 Rewe St. Brooklyn, New York, 11211, USA
Manufacturer	:	The same as above
Address	:	The same as above
Product Name	:	Smart Phone
Model No.	:	SP5513, CBP3155
Brand	:	SLIDE,COBY
Standards	:	FCC CFR47 Part 15.247:2015
Date of Receipt sample	:	Sep. 19, 2016
Date of Test	:	Sep. 20 – Nov. 02, 2016
Date of Issue	:	Nov. 22, 2016
Test Result	:	**Pass**

Remarks:
The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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Compiled by:

Zero Zhou / Test Engineer

Approved by:

Philo Zhong / Manager

2 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.247(d) 15.205(a) 15.209(a)	PASS
Conducted Spurious Emissions	15.247(d)	PASS
Conducted Emissions	15.207(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3),(4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

3 Contents

4 Report Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTS16S0961002-2E	Sep. 19, 2016	Sep. 20 – Nov. 02, 2016	Nov. 03, 2016	original	-	Replaced
WTS16S0961002-2E V1	Sep. 19, 2016	Sep. 20 – Nov. 02, 2016	Nov. 22, 2016	Version 1	-	Valid

5 General Information

5.1 General Description of E.U.T.

Product Name:	Smart Phone
Model No.:	SP5513, CBP3155
Model Description:	Only the model names and brand names are different.
GSM Band(s):	GSM 850/900/1800/1900MHz
GPRS Class:	12
WCDMA Band(s):	FDD Band IV/V
LTE Band(s):	N/A
Wi-Fi Specification:	2.4G: 802.11b/g/n HT20 HT40
Bluetooth Version:	Bluetooth v4.0 with BLE
GPS:	Support
NFC:	N/A
Hardware Version:	AL_T5_MB_V20
Software Version:	G556QW_20160622_v1.0 .01_June
Highest frequency (Exclude Radio):	26MHz
Storage Location:	Internal Storage

5.2 Details of E.U.T.

Operation Frequency:	GSM 850: 824~849MHz PCS 1900: 1850~1910MHz WCDMA Band V: 824~849MHz WCDMA Band IV:1710~1755MHz WiFi: 802.11b/g/n HT20: 2412~2462MHz 802.11n HT40: 2422~2452MHz Bluetooth: 2402~2480MHz
Max. RF output power:	GSM 850: 32.47dBm PCS1900:29.87dBm WCDMA Band V: 22.45dBm WCDMA Band IV: 22.37dBm WiFi(2.4G): 9.47dBm Bluetooth: 6.19dBm
Type of Modulation:	GSM,GPRS: GMSK WCDMA: BPSK WiFi: CCK, OFDM Bluetooth: GFSK, Pi/4 DQPSK, 8DPSK

Antenna installation:	GSM/WCDMA: internal permanent antenna WiFi/Bluetooth: internal permanent antenna
Antenna Gain:	GSM 850: 0.5dBi PCS1900: 1.0dBi WCDMA Band V: 0.5dBi WCDMA Band IV: 1.0dBi WiFi(2.4G): 1.0dBi Bluetooth: 1.0dBi
Technical Data:	Battery DC 3.7V, 2000mAh DC 5V, 1.0A, charging from adapter (Adapter Input: 100-240V~50/60Hz 0.2A
Adapter:	Manufacture: XINYU EAGLETRON ELECTRONIC CO.LTD. Model No.: SWN006S050100U1

5.3 Channel List

WIFI

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462	12	-

BT BLE

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2404	2	2406	3	2408
4	2410	5	2412	6	2414	7	2416
8	2418	9	2420	10	2422	11	2424
12	2426	13	2428	14	2430	15	2432
16	2434	17	2436	18	2438	19	2440
20	2442	21	2444	22	2446	23	2448
24	2450	25	2452	26	2454	27	2456
28	2458	29	2460	30	2462	31	2464
32	2466	33	2468	34	2470	35	2472
36	2474	37	2476	38	2478	39	2480

5.4 Test Mode

Table 1 Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
Maximum Peak Output Power	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
Power Spectral Density	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
6dB Bandwidth	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
Band Edge	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
Transmitter Spurious Emissions	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX

Table 2 Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
Maximum Peak Output Power	BT BLE	1 Mbps	0/19/39	TX
Power Spectral Density	BT BLE	1 Mbps	0/19/39	TX
6dB Bandwidth	BT BLE	1 Mbps	0/19/39	TX
Band Edge	BT BLE	1 Mbps	0/19/39	TX
Transmitter Spurious Emissions	BT BLE	1 Mbps	0/19/39	TX

Note :Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product .

5.5 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A**

  Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2015.

- **FCC Test Site 1#– Registration No.: 880581**

  Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, April 29, 2014.

- **FCC Test Site 2#– Registration No.: 328995**

  Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 328995, December 3, 2014.

6 Equipment Used during Test

6.1 Equipments List

Conducted Emissions Test Site 1#						
Item	**Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Last Calibration Date**	**Calibration Due Date**
1.	EMI Test Receiver	R&S	ESCI	100947	Sep.12,2016	Sep.11,2017
2.	LISN	R&S	ENV216	101215	Sep.12,2016	Sep.11,2017
3.	Cable	Top	TYPE16(3.5M)	-	Sep.12,2016	Sep.11,2017
Conducted Emissions Test Site 2#						
Item	**Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Last Calibration Date**	**Calibration Due Date**
1.	EMI Test Receiver	R&S	ESCI	101155	Sep.12,2016	Sep.11,2017
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.12,2016	Sep.11,2017
3.	Limiter	York	MTS-IMP-136	261115-001-0024	Sep.12,2016	Sep.11,2017
4.	Cable	LARGE	RF300	-	Sep.12,2016	Sep.11,2017
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	**Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Last Calibration Date**	**Calibration Due Date**
1	Spectrum Analyzer	R&S	FSP	100091	Apr.29, 2016	Apr.28, 2017
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Apr.09,2016	Apr.08,2017
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.09,2016	Apr.08,2017
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	Sep.12,2016	Sep.11,2017
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.09,2016	Apr.08,2017
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.09,2016	Apr.08,2017
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Apr.13,2016	Apr.12,2017
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	Apr.13,2016	Apr.12,2017
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	**Equipment**	**Manufacturer**	**Model No.**	**Serial No**	**Last Calibration Date**	**Calibration Due Date**
1	Test Receiver	R&S	ESCI	101296	Apr.13,2016	Apr.12,2017
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Apr.09,2016	Apr.08,2017
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Apr.13,2016	Apr.12,2017
4	Cable	HUBER+SUHNER	CBL2	525178	Apr.13,2016	Apr.12,2017

RF Conducted Testing						
Item	**Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Last Calibration Date**	**Calibration Due Date**
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	Sep.12,2016	Sep.11,2017
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	Sep.12,2016	Sep.11,2017
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	Sep.12,2016	Sep.11,2017

6.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

6.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	± 1 x 10^{-6}
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (30M~1000MHz)
	± 5.47 dB (1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

6.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

7 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207

Test Method: ANSI C63.10:2013

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class/Severity: Class B

Limit:

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	60
5 to 30	60	50

7.1 E.U.T. Operation

Operating Environment **:**

Temperature: 21.5 °C

Humidity: 51.9 % RH

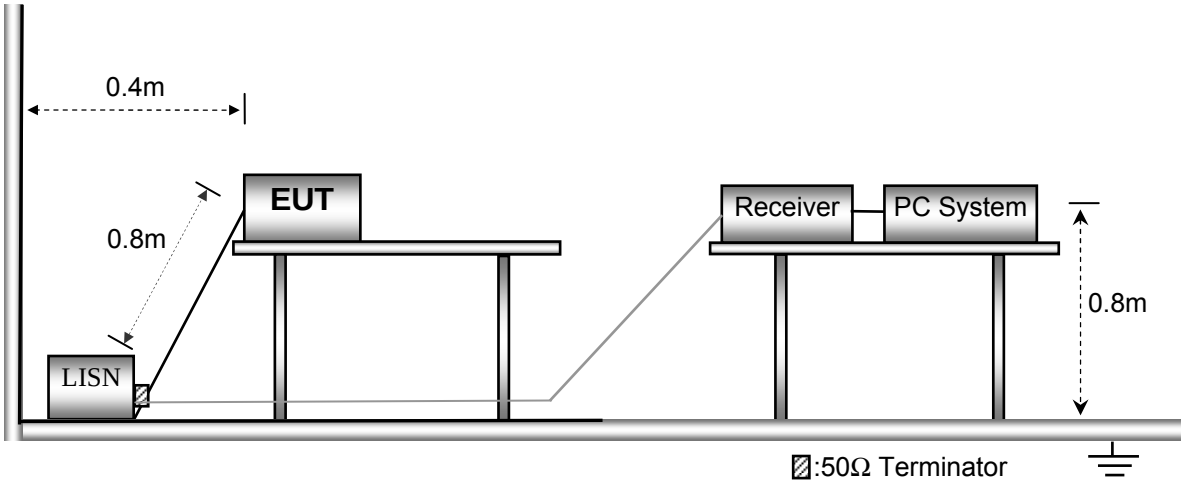
Atmospheric Pressure: 101.2kPa

EUT Operation **:**

The test was performed in WIFI link mode, the worst data were shown in the report.

7.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10.



7.3 Measurement Description

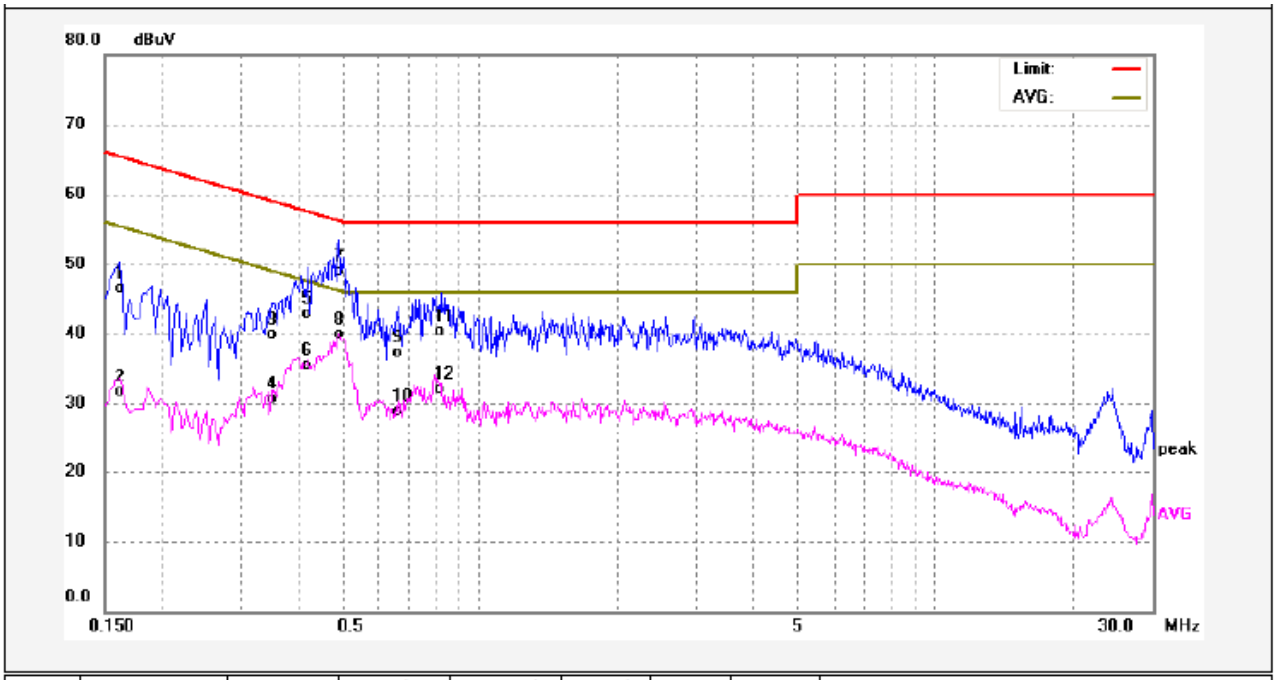
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

7.4 Conducted Emission Test Result

An initial pre-scan was performed on the live and neutral lines.

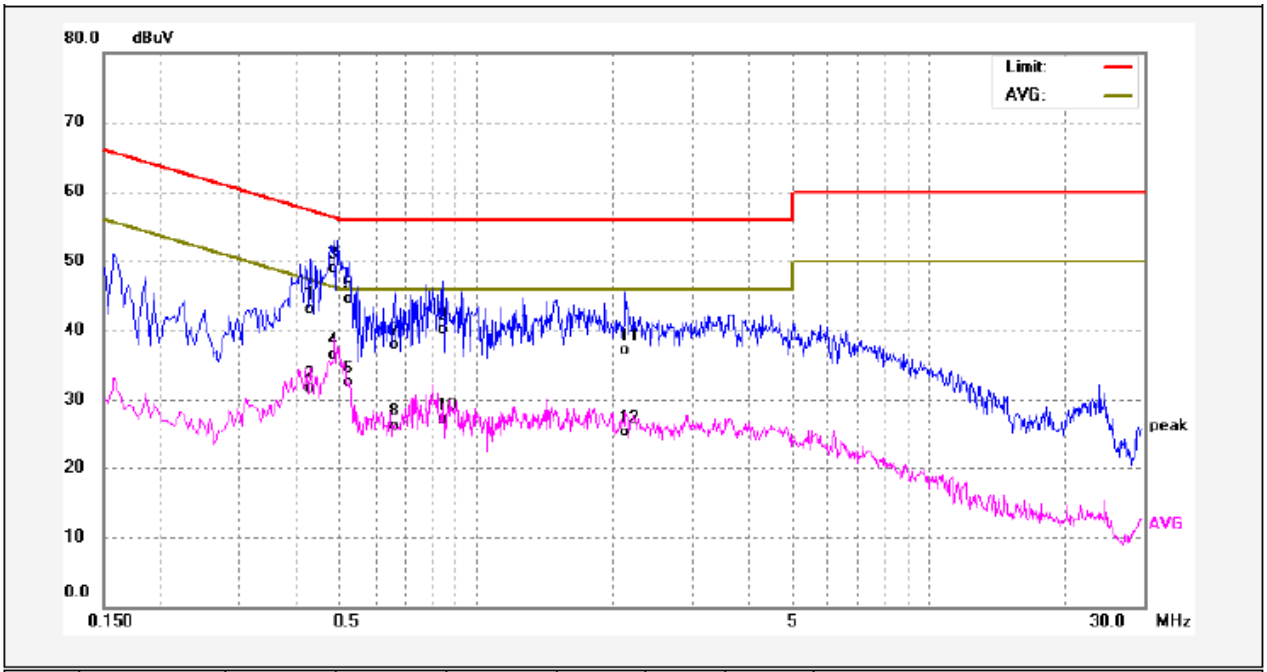
Worst Mode: WIFI mode

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1620	36.23	10.28	46.51	65.36	-18.85	QP	
2	0.1620	21.51	10.28	31.79	55.36	-23.57	AVG	
3	0.3500	29.61	10.29	39.90	58.96	-19.06	QP	
4	0.3500	20.44	10.29	30.73	48.96	-18.23	AVG	
5	0.4180	32.62	10.27	42.89	57.49	-14.60	QP	
6	0.4180	25.24	10.27	35.51	47.49	-11.98	AVG	
7	0.4900	38.73	10.25	48.98	56.17	-7.19	QP	
8	0.4900	29.64	10.25	39.89	46.17	-6.28	AVG	
9	0.6580	26.93	10.33	37.26	56.00	-18.74	QP	
10	0.6580	18.63	10.33	28.96	46.00	-17.04	AVG	
11	0.8220	29.93	10.36	40.29	56.00	-15.71	QP	
12	0.8220	21.66	10.36	32.02	46.00	-13.98	AVG	

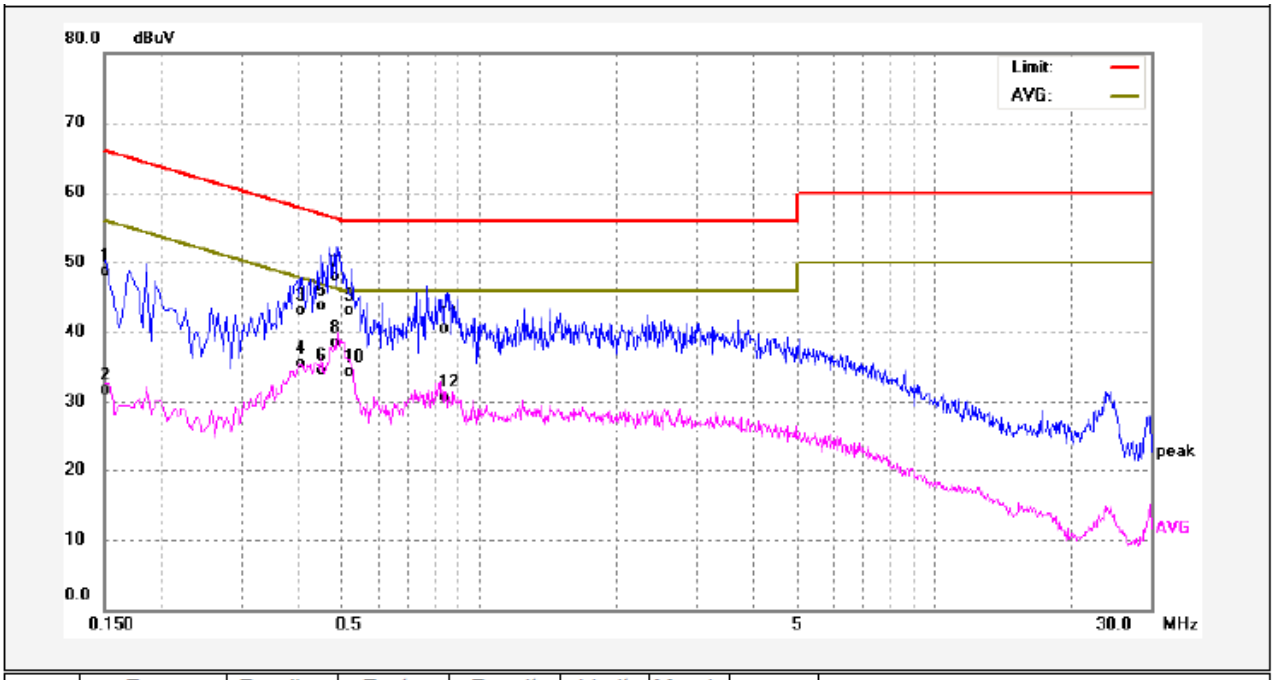
Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.4300	32.76	10.26	43.02	57.25	-14.23	QP	
2	0.4300	21.54	10.26	31.80	47.25	-15.45	AVG	
3	0.4860	38.73	10.25	48.98	56.24	-7.26	QP	
4	0.4860	26.23	10.25	36.48	46.24	-9.76	AVG	
5	0.5220	34.28	10.26	44.54	56.00	-11.46	QP	
6	0.5220	22.22	10.26	32.48	46.00	-13.52	AVG	
7	0.6620	27.51	10.34	37.85	56.00	-18.15	QP	
8	0.6620	16.04	10.34	26.38	46.00	-19.62	AVG	
9	0.8460	29.74	10.37	40.11	56.00	-15.89	QP	
10	0.8460	16.82	10.37	27.19	46.00	-18.81	AVG	
11	2.1420	26.60	10.47	37.07	56.00	-18.93	QP	
12	2.1420	14.92	10.47	25.39	46.00	-20.61	AVG	

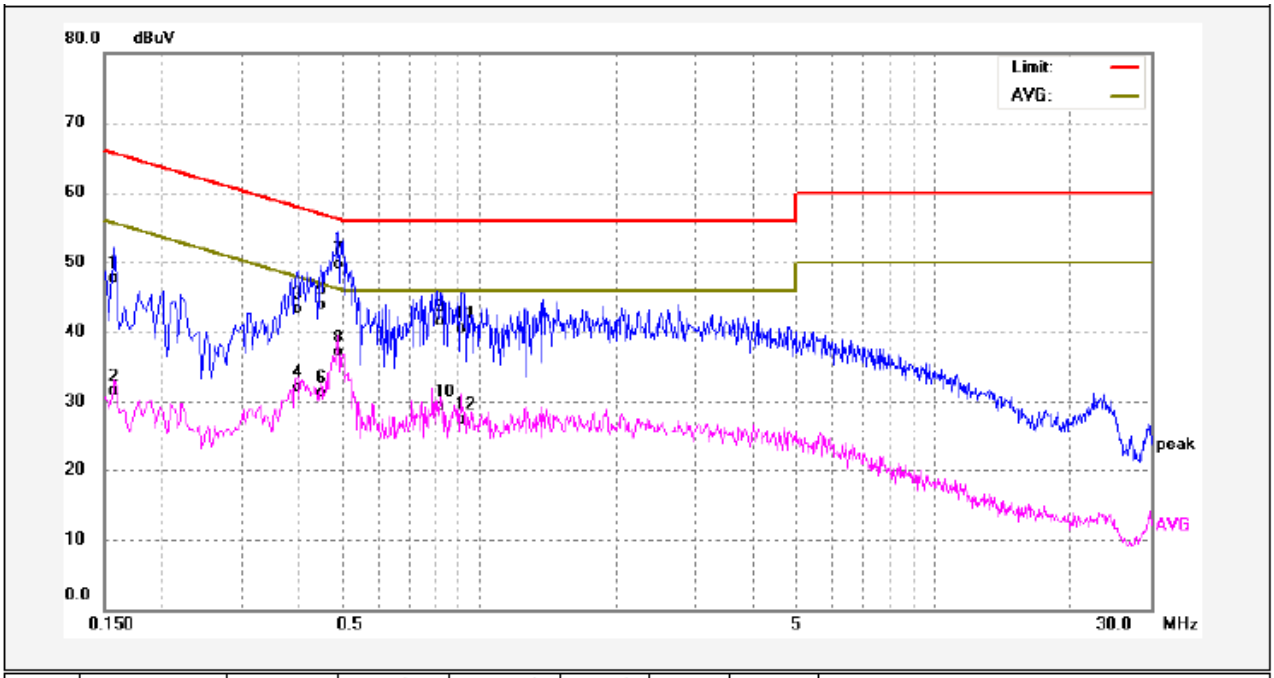
Worst Mode: BLE mode

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1500	38.43	10.29	48.72	65.99	-17.27	QP	
2	0.1500	21.34	10.29	31.63	55.99	-24.36	AVG	
3	0.4100	32.92	10.27	43.19	57.65	-14.46	QP	
4	0.4100	25.21	10.27	35.48	47.65	-12.17	AVG	
5	0.4500	33.54	10.26	43.80	56.87	-13.07	QP	
6	0.4500	24.34	10.26	34.60	46.87	-12.27	AVG	
7	0.4820	37.59	10.25	47.84	56.30	-8.46	QP	
8	0.4820	28.33	10.25	38.58	46.30	-7.72	AVG	
9	0.5260	32.92	10.26	43.18	56.00	-12.82	QP	
10	0.5260	24.01	10.26	34.27	46.00	-11.73	AVG	
11	0.8500	30.20	10.37	40.57	56.00	-15.43	QP	
12	0.8500	20.41	10.37	30.78	46.00	-15.22	AVG	

Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1580	37.33	10.28	47.61	65.56	-17.95	QP	
2	0.1580	21.24	10.28	31.52	55.56	-24.04	AVG	
3	0.3980	33.00	10.27	43.27	57.89	-14.62	QP	
4	0.3980	21.84	10.27	32.11	47.89	-15.78	AVG	
5	0.4500	33.66	10.26	43.92	56.87	-12.95	QP	
6	0.4500	21.14	10.26	31.40	46.87	-15.47	AVG	
7	0.4900	39.37	10.25	49.62	56.17	-6.55	QP	
8	0.4900	26.87	10.25	37.12	46.17	-9.05	AVG	
9	0.8100	31.06	10.36	41.42	56.00	-14.58	QP	
10	0.8100	18.98	10.36	29.34	46.00	-16.66	AVG	
11	0.9140	30.13	10.38	40.51	56.00	-15.49	QP	
12	0.9140	17.04	10.38	27.42	46.00	-18.58	AVG	

8 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.10:2013

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

8.1 EUT Operation

Operating Environment **:**

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

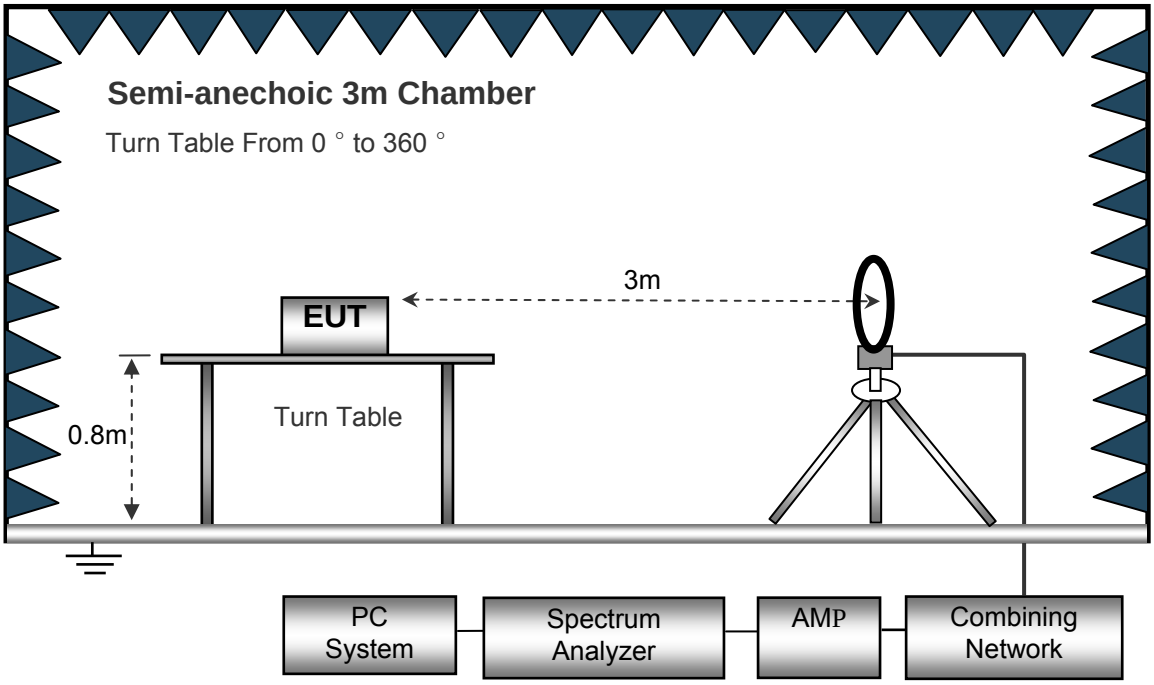
EUT Operation **:**

The test was performed in WIFI link mode, the test data were shown in the report.

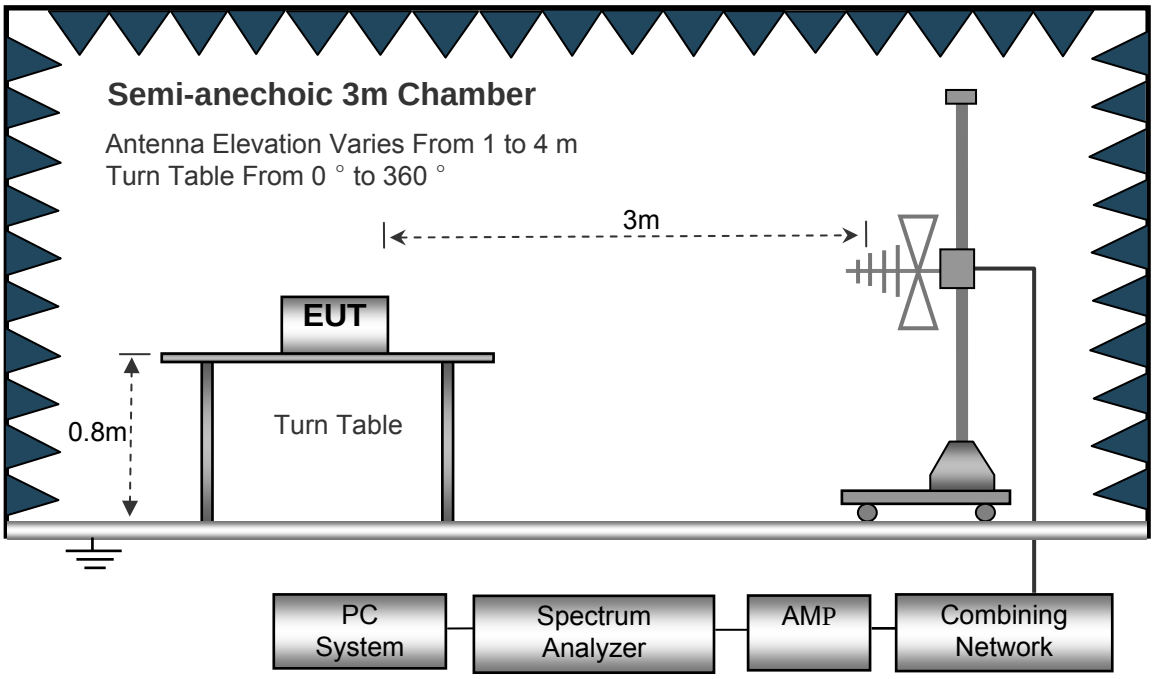
8.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

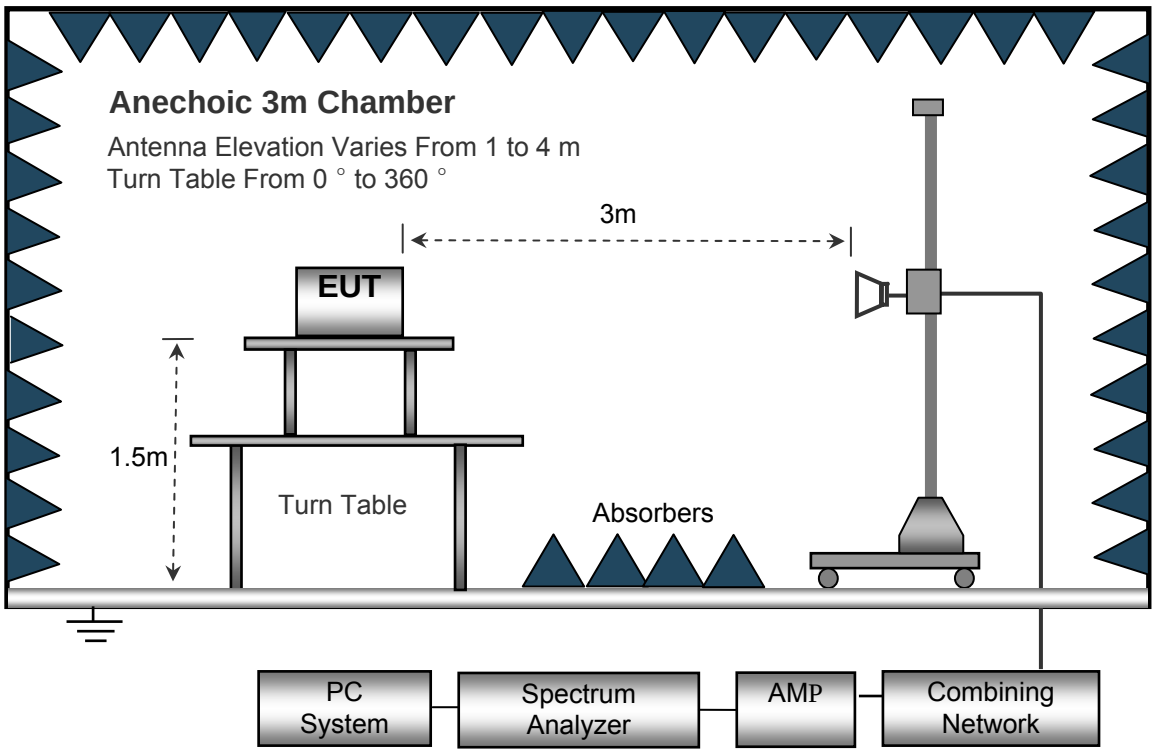
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



8.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed ..... Auto
IF Bandwidth..... 10kHz
Video Bandwidth..... 10kHz
Resolution Bandwidth..... 10kHz

30MHz ~ 1GHz

Sweep Speed ..... Auto
Detector ..... PK
Resolution Bandwidth..... 100kHz
Video Bandwidth..... 300kHz

Above 1GHz

Sweep Speed ..... Auto
Detector ..... PK
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 3MHz
Detector ..... Ave.
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 10Hz

8.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m(30M-1GHz) 1.5m(above 1GHz) above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used druing radiated emissions above 1GHz measurement.

8.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – Limit

8.6 Summary of Test Results

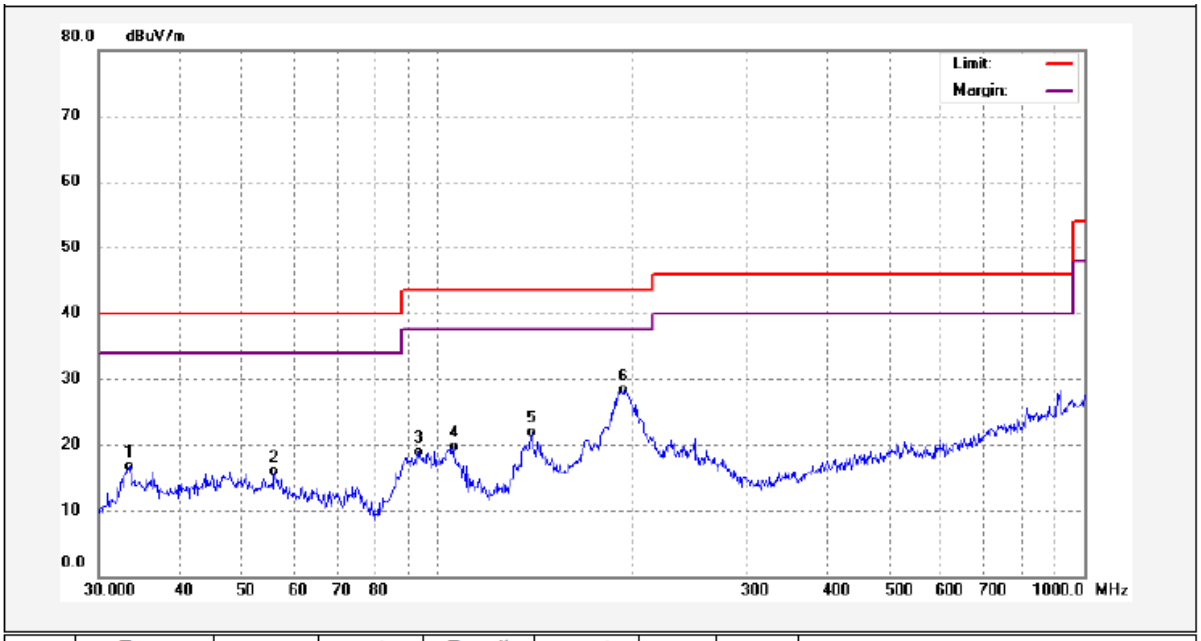
Wifi:
Test Frequency: 9KHz~30MHz

Frequency	Measurement results dBμV @3m	Detector PK/QP	Correct factor dB/m	Extrapolation factor dB	Measurement results (calculated) dBμV/m @30m	Limits dBμV/m @30m	Margin dB
(MHz)	Measurement results	Detector	Correct factor	Extrapolation factor	Measurement results (calculated)	Limits	Margin
802.11b							
6.241	24.85	QP	22.36	40.00	7.21	29.54	-22.33
8.321	24.69	QP	23.57	40.00	8.26	29.54	-21.28
25.698	25.12	QP	25.30	40.00	10.42	29.54	-19.12
802.11g							
6.021	24.68	QP	21.84	40.00	6.52	29.54	-23.02
8.304	26.35	QP	21.02	40.00	7.37	29.54	-22.17
26.127	25.13	QP	20.55	40.00	5.68	29.54	-23.86
802.11n(HT20)							
6.021	25.02	QP	21.84	40.00	6.86	29.54	-22.68
8.304	26.14	QP	21.02	40.00	7.16	29.54	-22.38
26.127	24.09	QP	20.55	40.00	4.64	29.54	-24.90
802.11n(HT40)							
6.021	24.96	QP	21.84	40.00	6.80	29.54	-22.74
8.304	26.51	QP	21.02	40.00	7.53	29.54	-22.01
26.127	25.33	QP	20.55	40.00	5.88	29.54	-23.66

Test Frequency : 30MHz ~ 1GHz

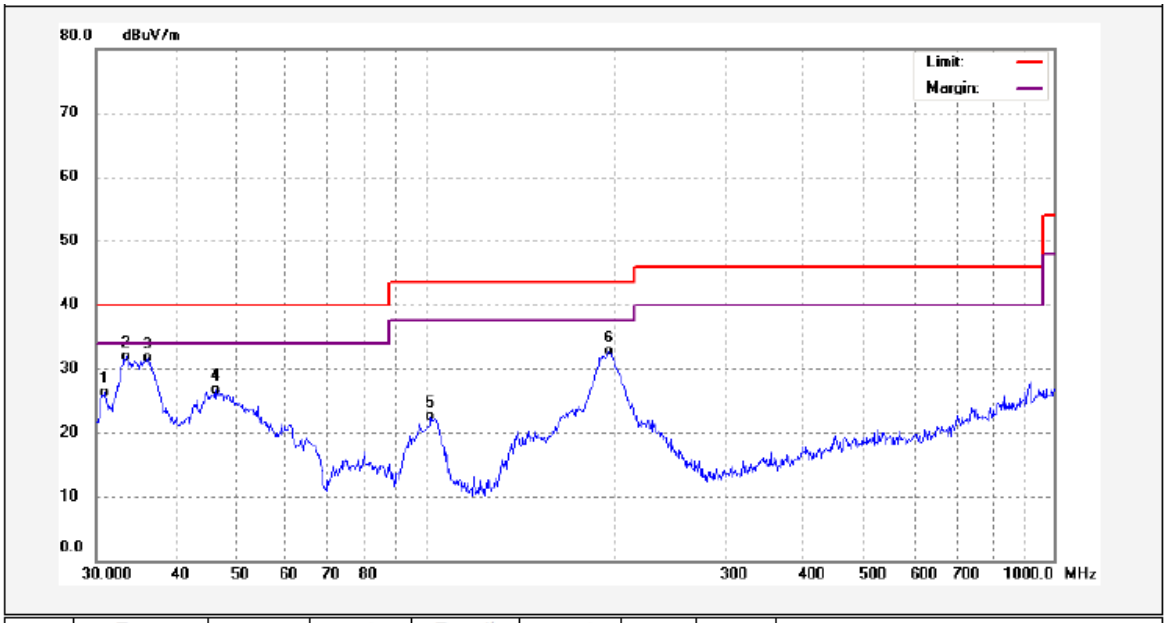
Remark: only the worst data (802.11n HT40 Low Channel mode) were reported

Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	33.4449	33.10	-16.30	16.80	40.00	-23.20	QP	
2	56.0007	33.76	-17.93	15.83	40.00	-24.17	QP	
3	93.4402	36.96	-18.12	18.84	43.50	-24.66	QP	
4	106.0126	37.19	-17.52	19.67	43.50	-23.83	QP	
5	139.8508	41.57	-19.66	21.91	43.50	-21.59	QP	
6	193.7728	45.61	-17.25	28.36	43.50	-15.14	QP	

Vertical

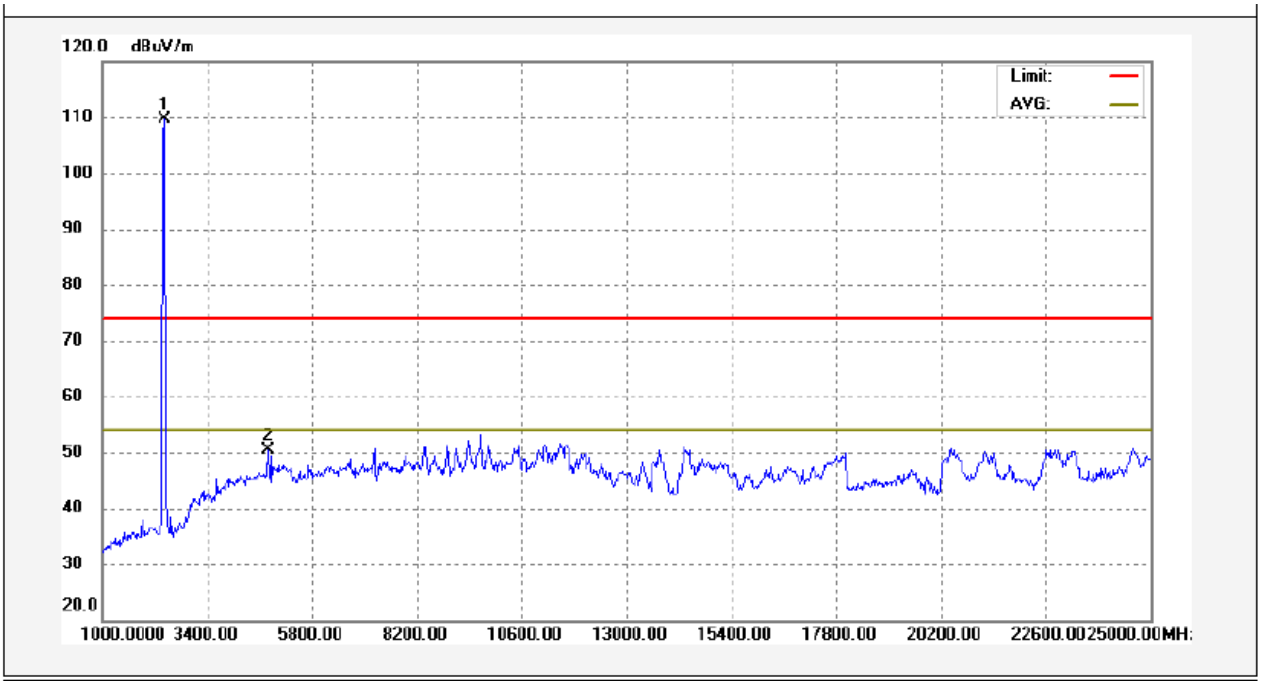


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.8535	43.30	-16.98	26.32	40.00	-13.68	QP	
2	33.4449	48.28	-16.30	31.98	40.00	-8.02	QP	
3	36.2541	47.47	-15.69	31.78	40.00	-8.22	QP	
4	46.3402	43.34	-16.71	26.63	40.00	-13.37	QP	
5	102.0014	40.41	-17.95	22.46	43.50	-21.04	QP	
6	195.8220	50.07	-17.28	32.79	43.50	-10.71	QP	

Test Frequency : Above 1GHz

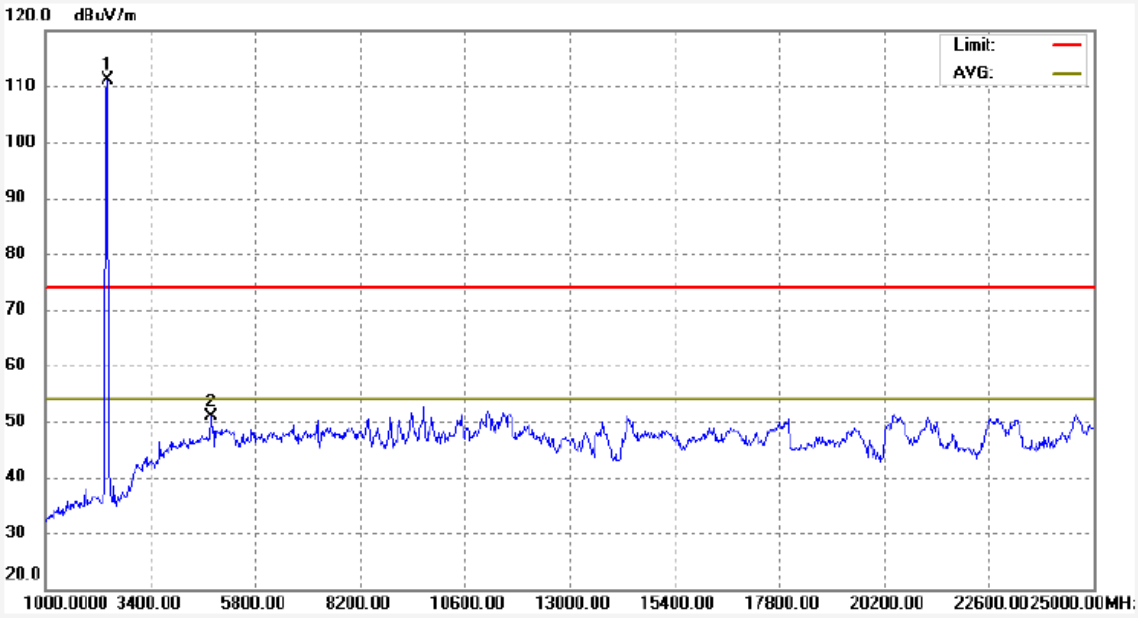
Remark: only the worst data (802.11n HT40 Low Channel mode) were reported

Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Rem ark
1	2414.100	124.89	-15.25	109.64				
2	4792.000	52.84	-2.50	50.34	74.00	-23.66	peak	

Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Rem ark
1	2413.300	126.40	-15.26	111.14				
2	4792.000	53.34	-2.50	50.84	74.00	-23.16	peak	

Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

BT BLE:

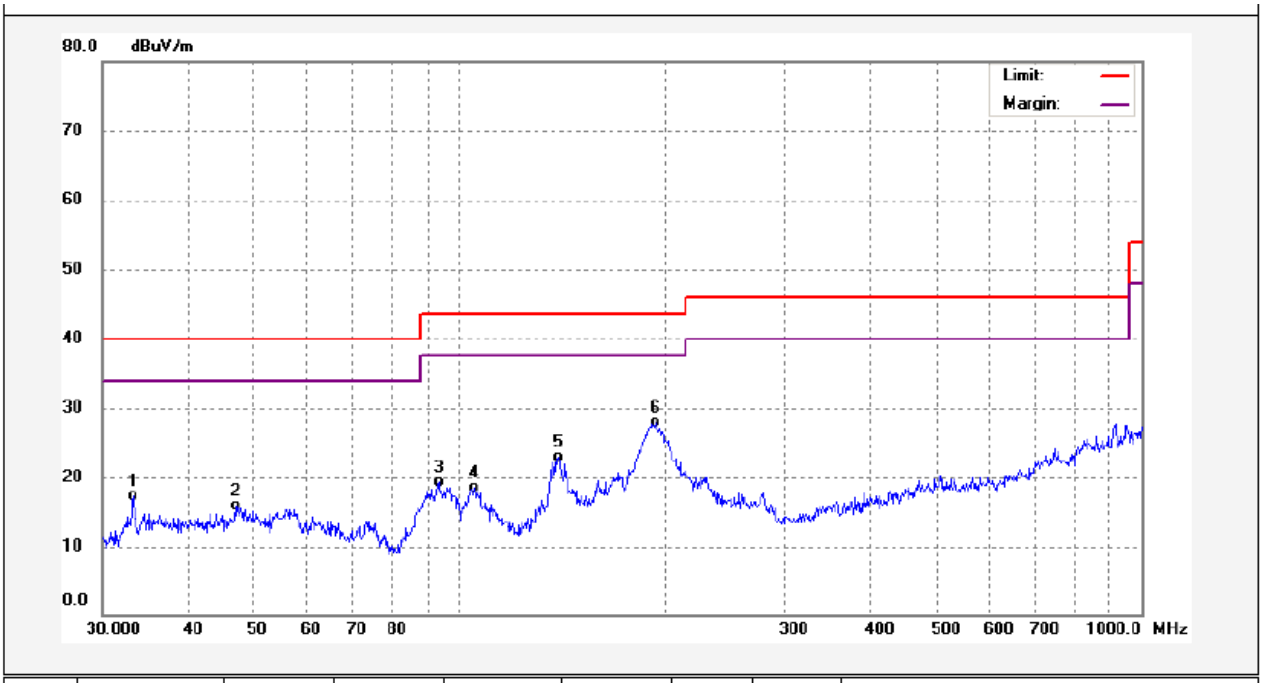
Test Frequency: 9KHz~30MHz

Frequency	Measurement results dBμV @3m	Detector PK/QP	Correct factor dB/m	Extrapolation factor dB	Measurement results (calculated) dBμV/m @30m	Limits dBμV/m @30m	Margin dB
(MHz)	Measurement results	Detector	Correct factor	Extrapolation factor	Measurement results (calculated)	Limits	Margin
6.201	25.62	QP	21.84	40.00	7.48	29.54	-22.06
8.652	25.46	QP	21.02	40.00	6.28	29.54	-23.26
25.630	20.35	QP	20.55	40.00	0.88	29.54	-28.66

Test Frequency : 30MHz ~ 1GHz

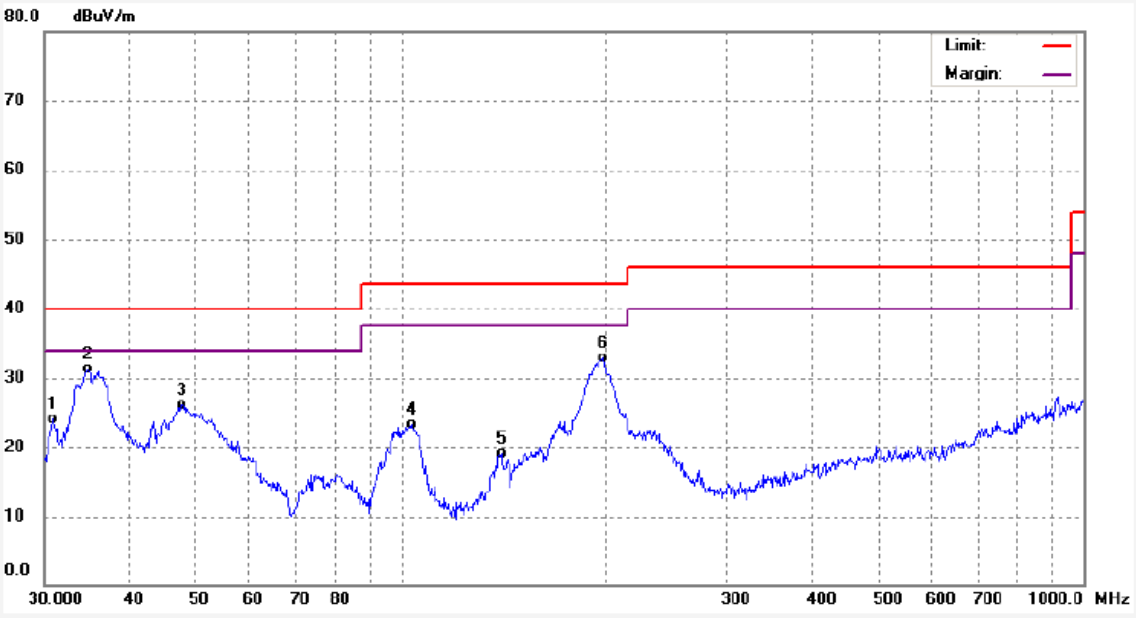
only the worst data (high Channel) were reported

High Channel – Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	33.3279	33.72	-16.33	17.39	40.00	-22.61	QP	
2	46.9948	32.39	-16.57	15.82	40.00	-24.18	QP	
3	93.4402	37.40	-18.12	19.28	43.50	-24.22	QP	
4	105.2718	36.15	-17.56	18.59	43.50	-24.91	QP	
5	139.8508	42.63	-19.66	22.97	43.50	-20.53	QP	
6	194.4534	45.21	-17.21	28.00	43.50	-15.50	QP	

High Channel – Vertical

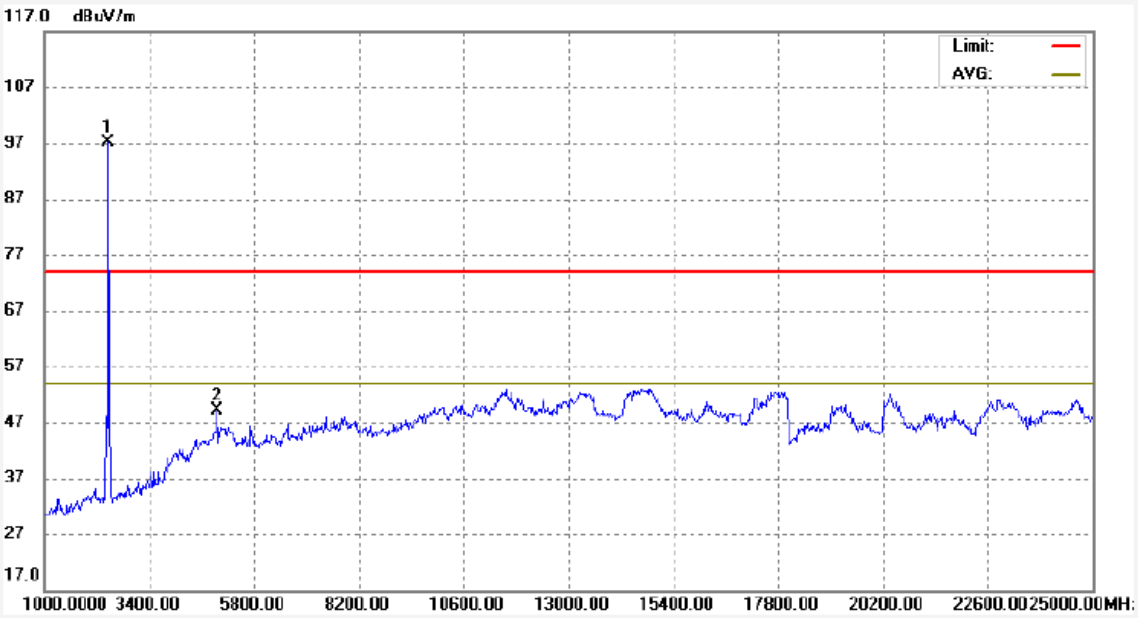


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.8535	41.08	-16.98	24.10	40.00	-15.90	QP	
2	34.7602	47.36	-16.01	31.35	40.00	-8.65	QP	
3	47.8260	42.59	-16.41	26.18	40.00	-13.82	QP	
4	103.8055	40.98	-17.72	23.26	43.50	-20.24	QP	
5	140.3421	38.88	-19.71	19.17	43.50	-24.33	QP	
6	197.8928	50.37	-17.52	32.85	43.50	-10.65	QP	

Test Frequency : Above 1GHz

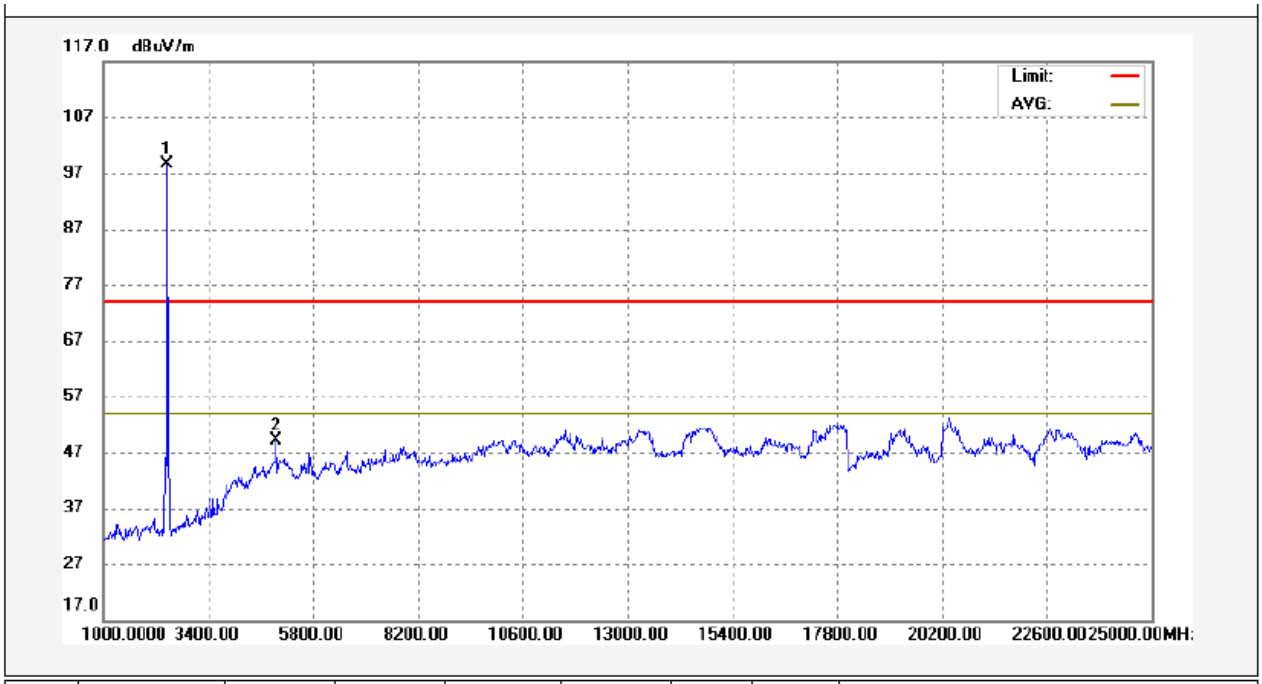
only the worst data (high Channel) were reported

High Channel - Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Rem ark
1	2481.200	112.44	-15.38	97.06				
2	4960.000	50.22	-1.16	49.06	74.00	-24.94	peak	

High Channel - Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Rem ark
1	2481.300	113.95	-15.39	98.56				
2	4960.000	50.22	-1.16	49.06	74.00	-24.94	peak	

Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

9 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016

Test Result: PASS

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

9.1 Test Procedure

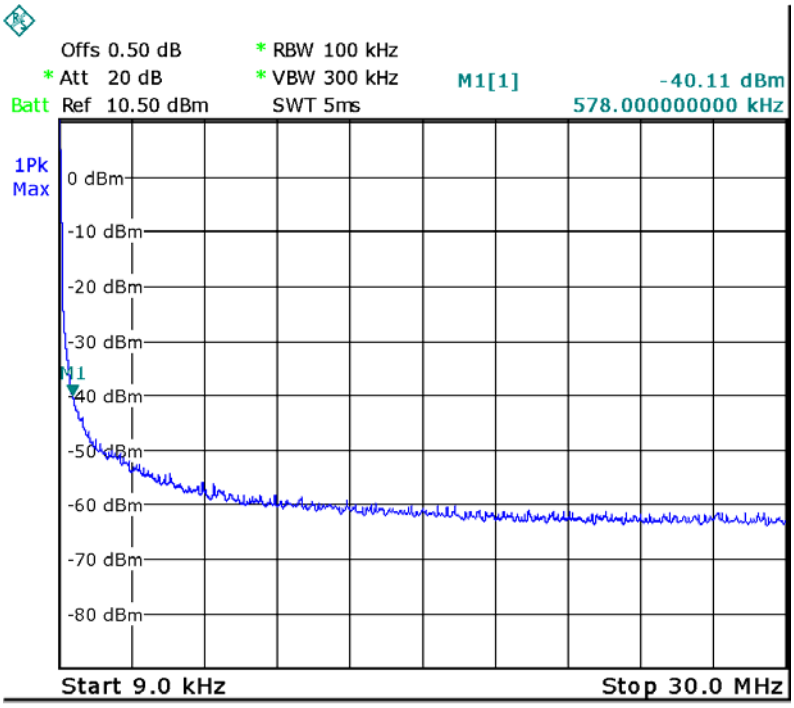
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
   RBW = 100kHz, VBW = 300kHz, Sweep = auto
   Detector function = peak, Trace = max hold

9.2 Test Result

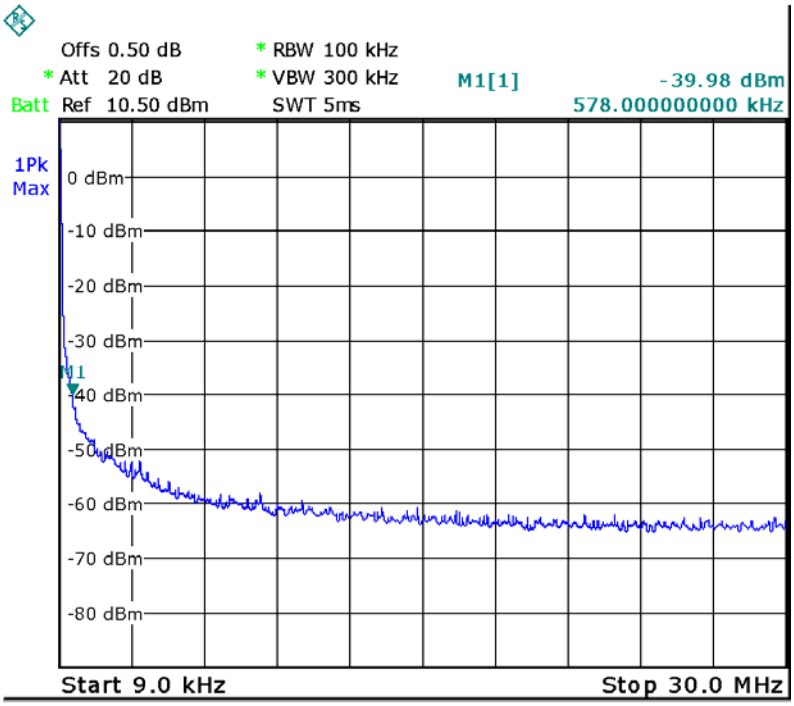
9KHz – 30MHz

802.11b

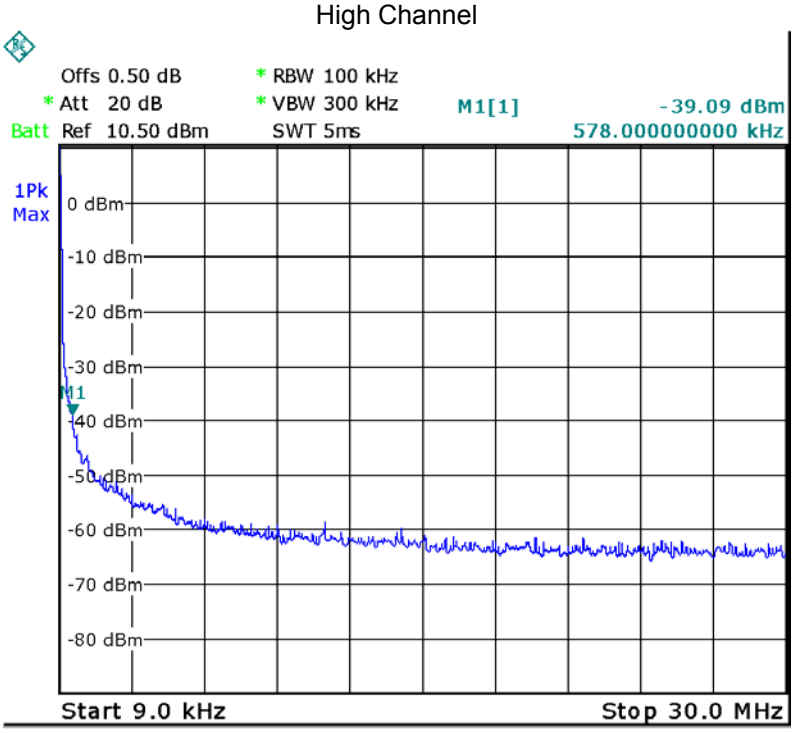
Low Channel



Middle Channel

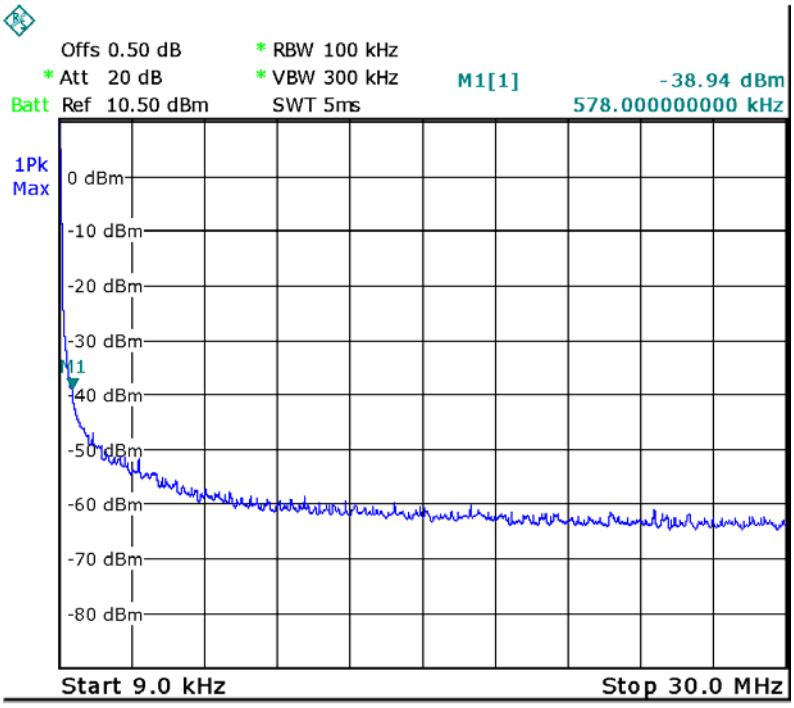


High Channel

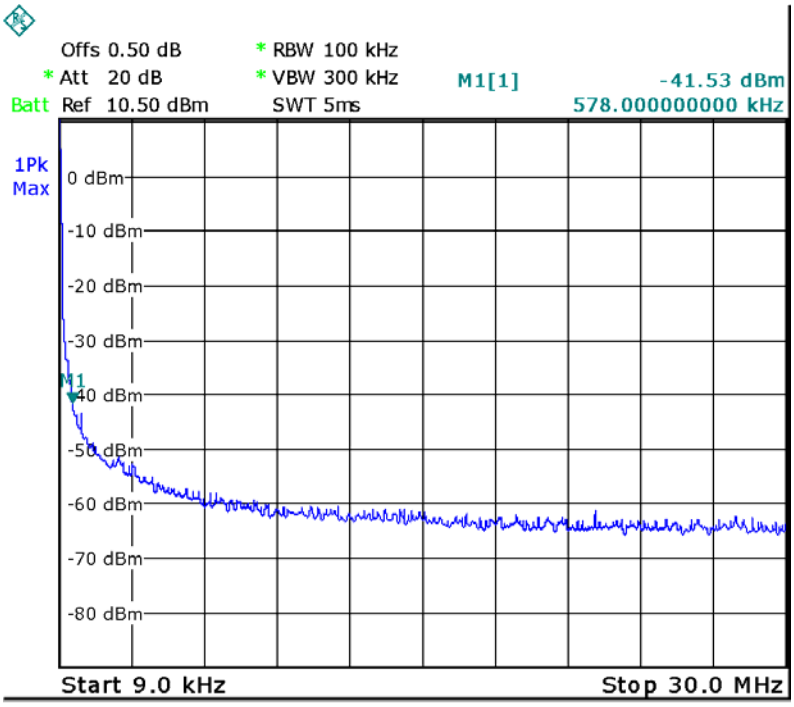


802.11g

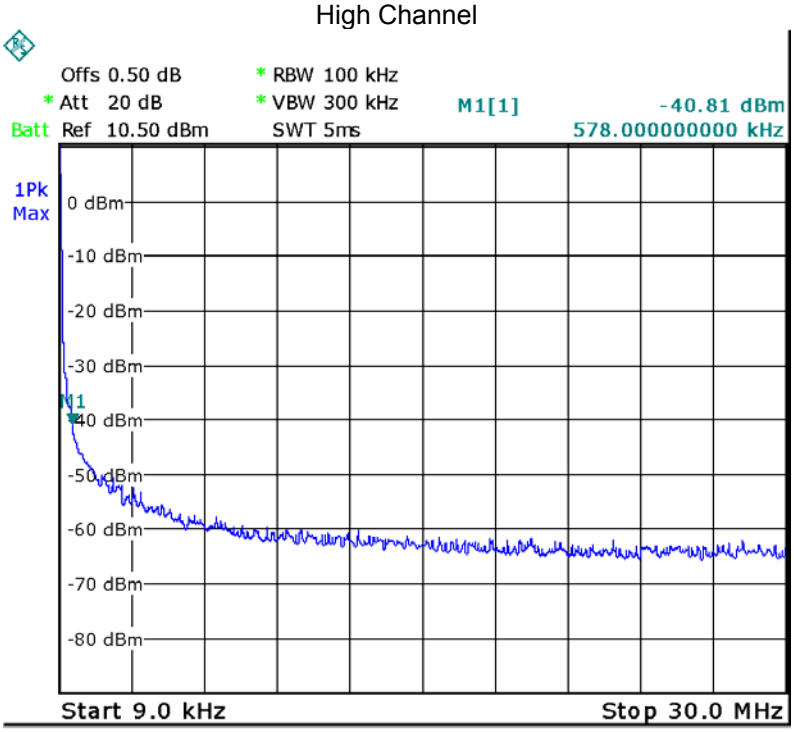
Low Channel



Middle Channel

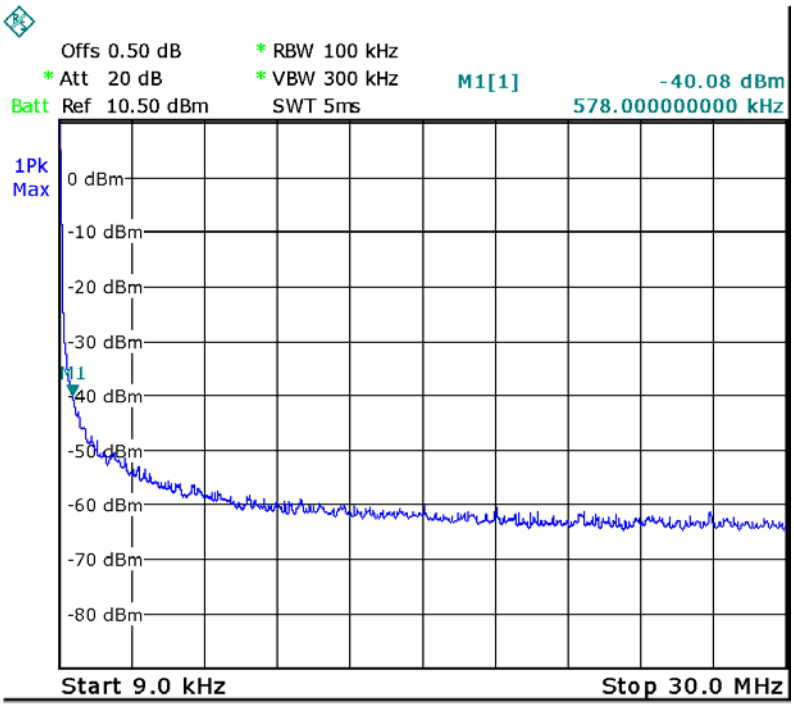


High Channel

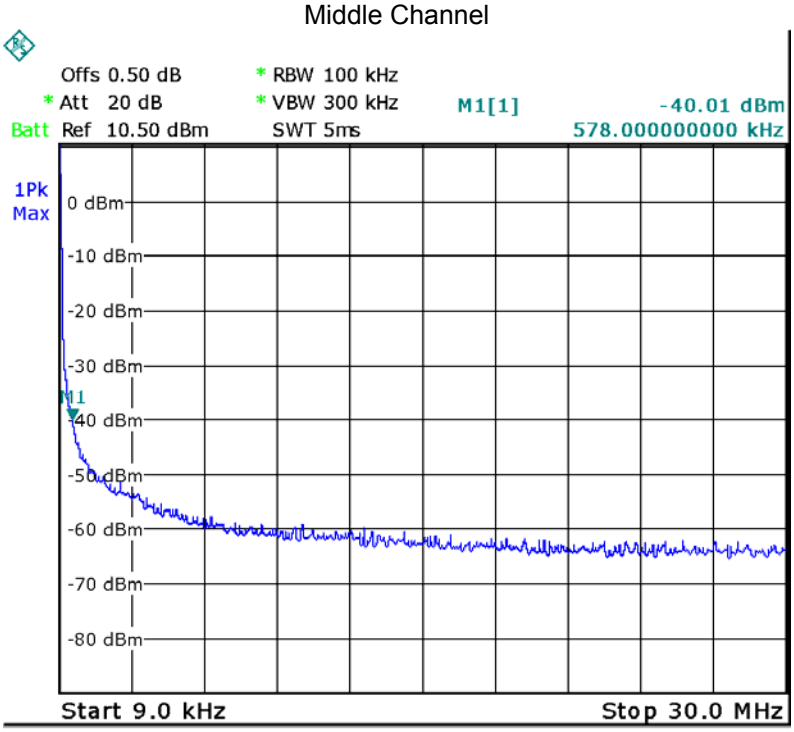


802.11n HT20

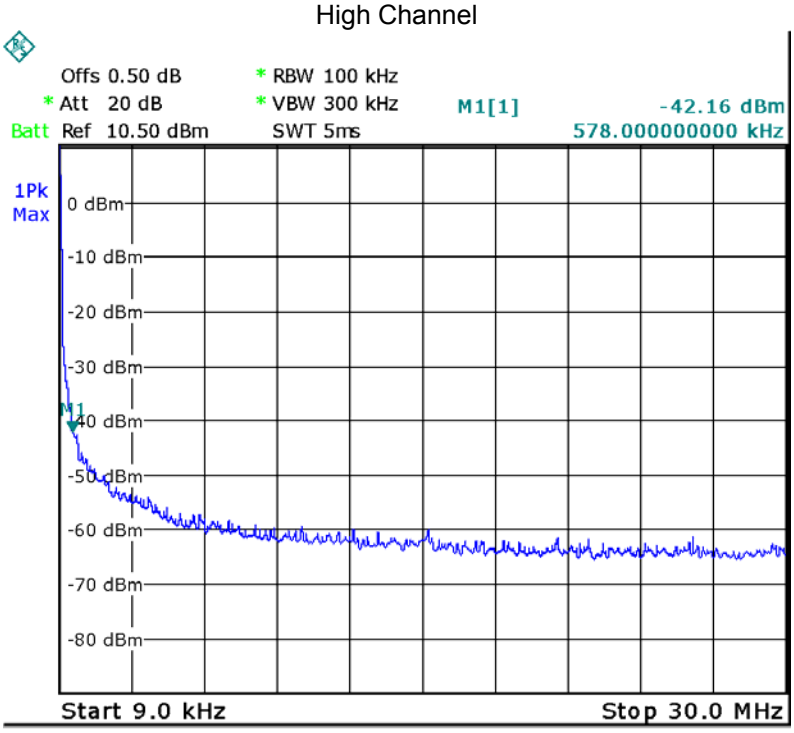
Low Channel



Middle Channel

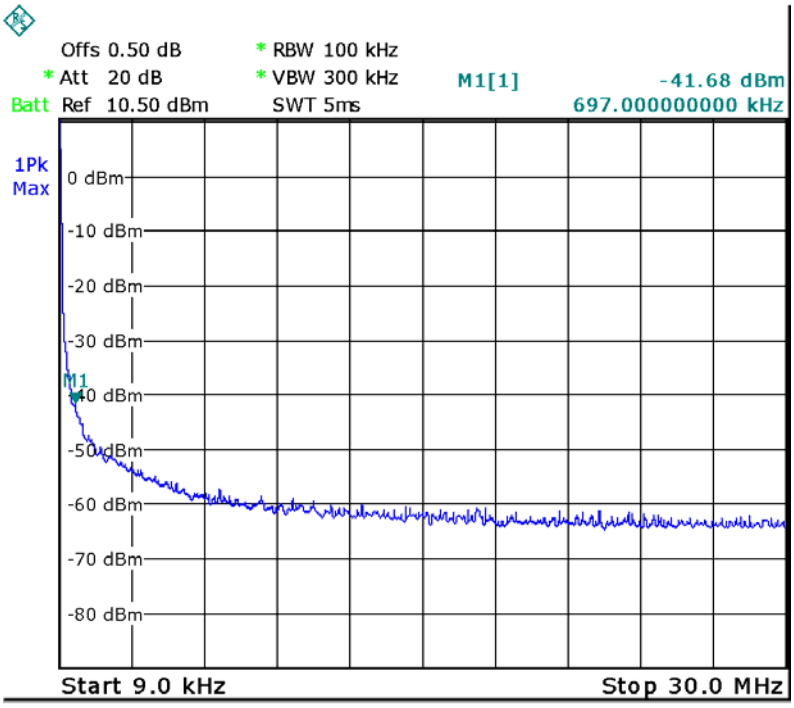


High Channel

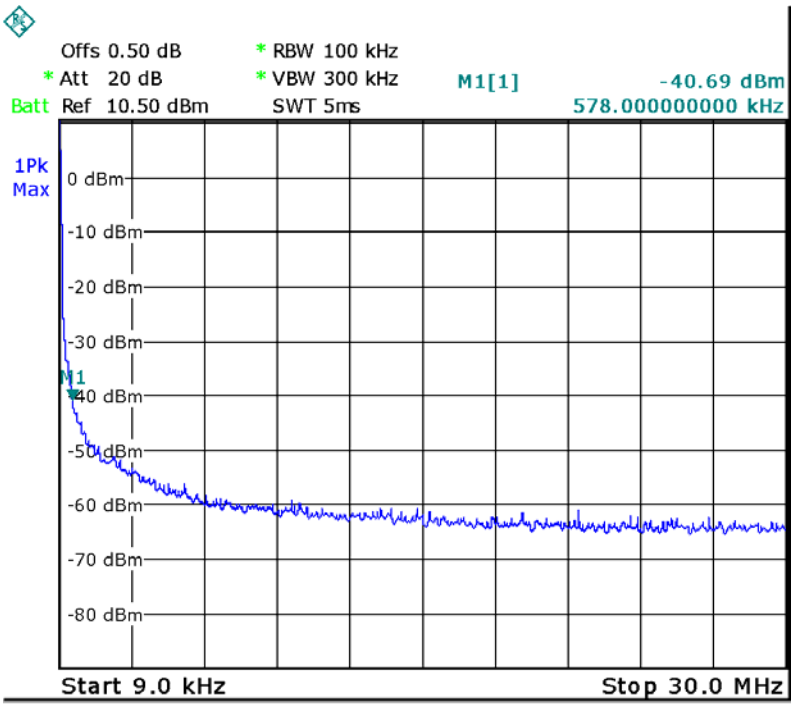


802.11n HT40

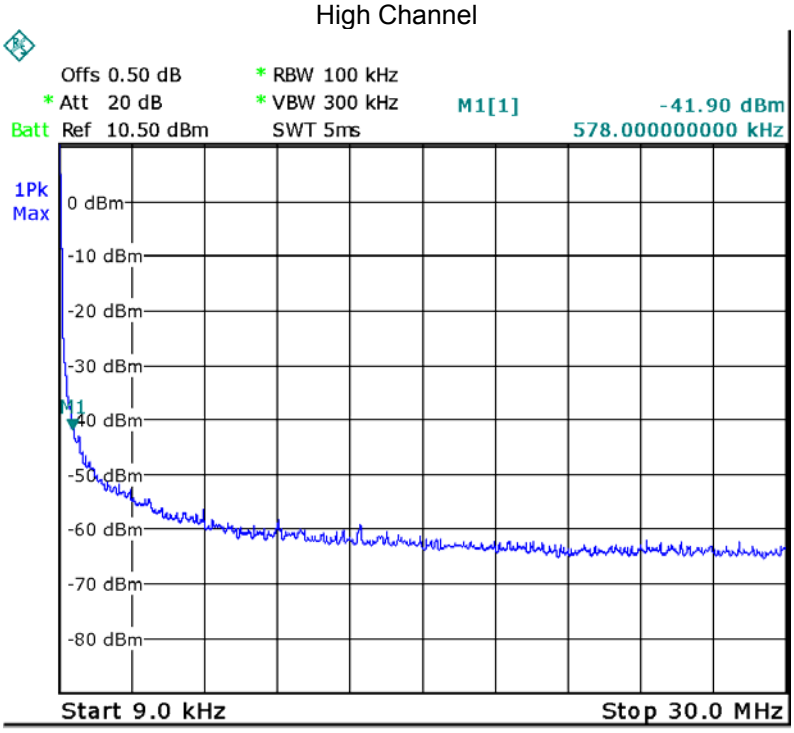
Low Channel



Middle Channel

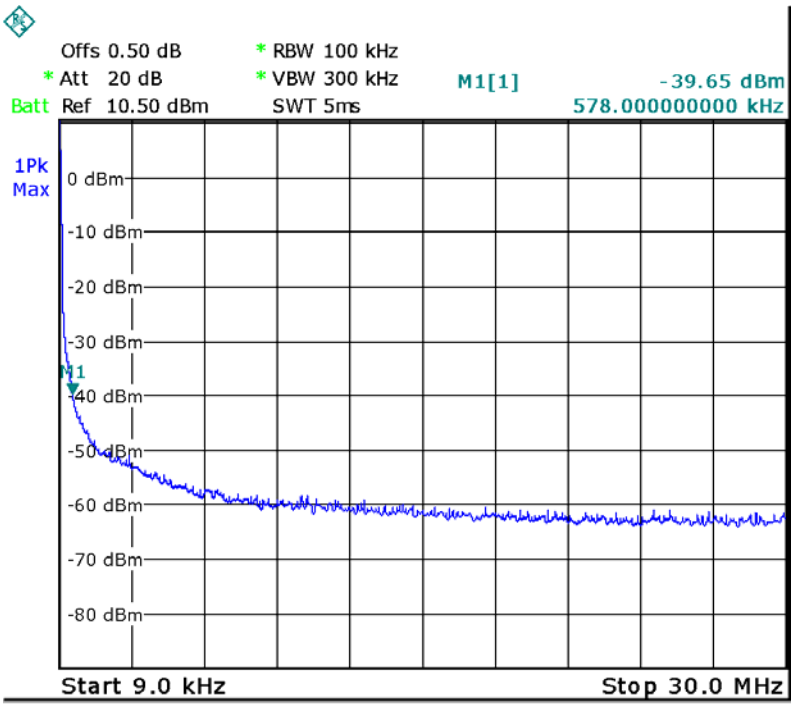


High Channel

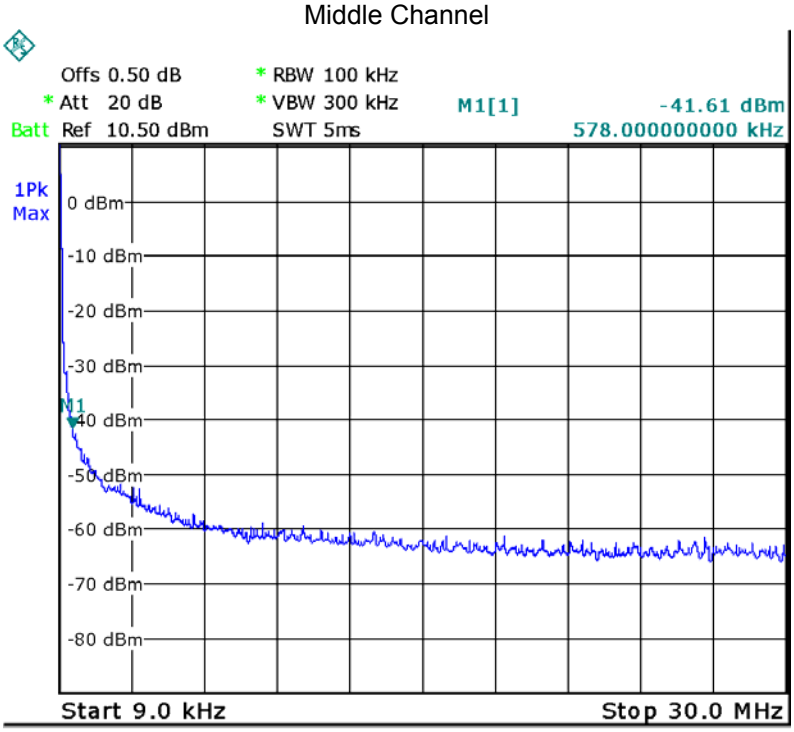


BLE

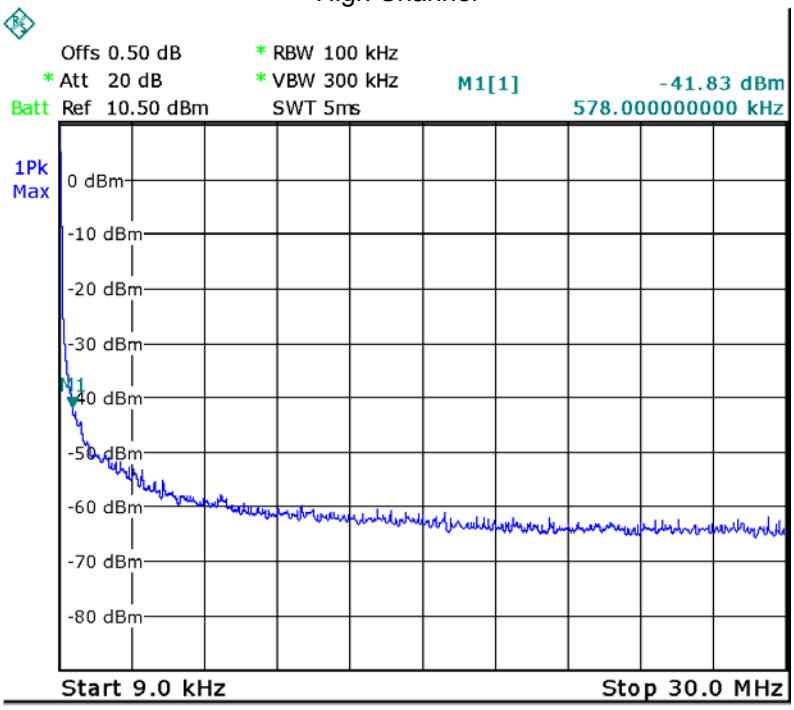
Low Channel



Middle Channel



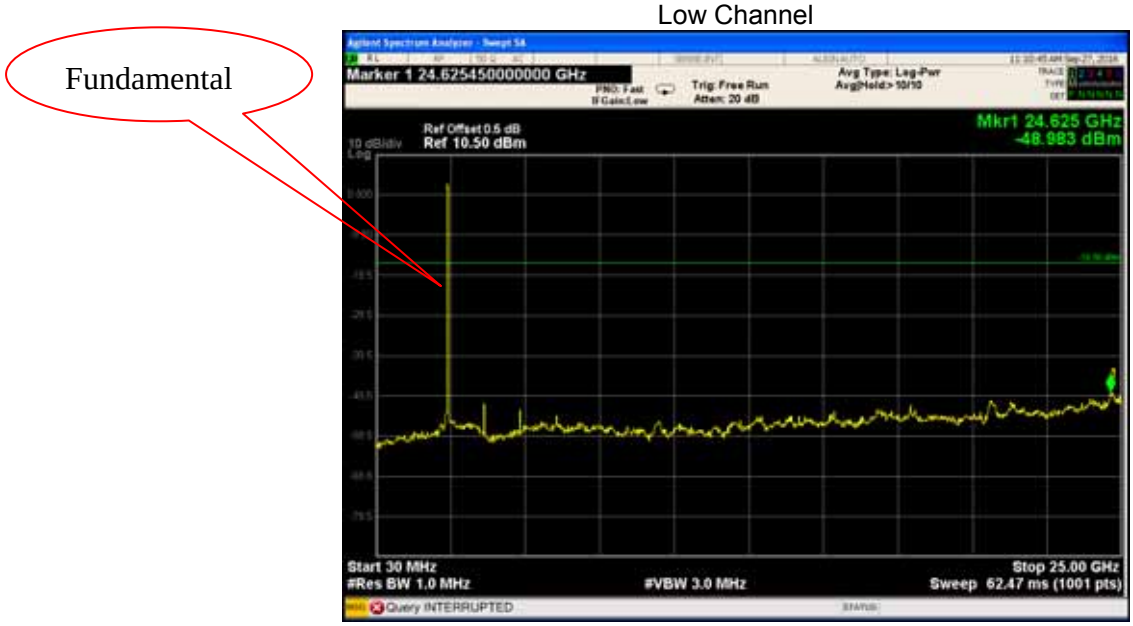
High Channel



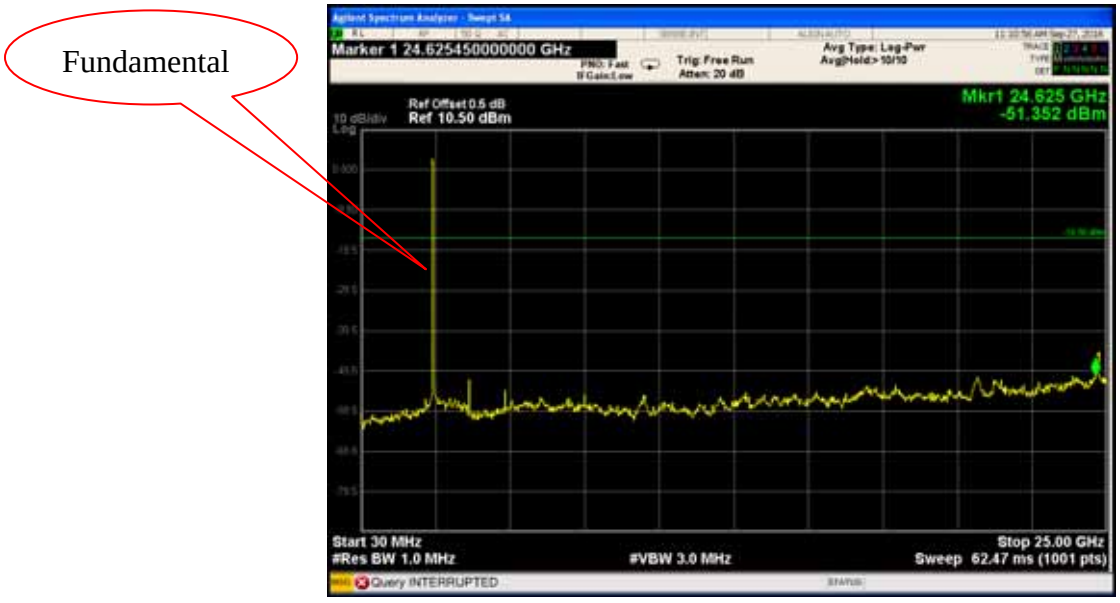
Above 30MHz

802.11b

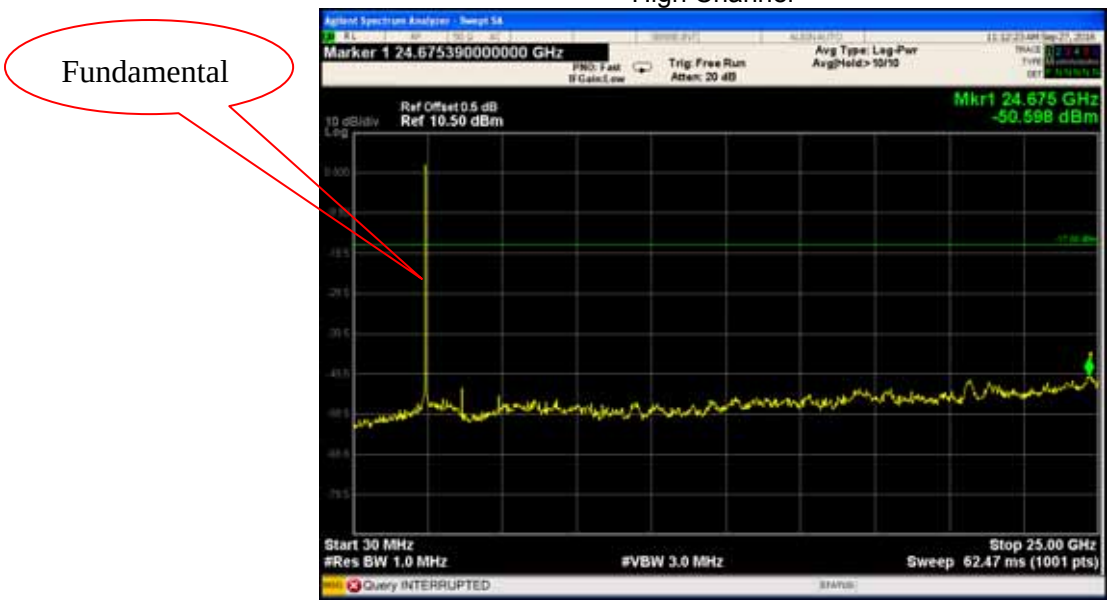
Low Channel



Middle Channel



High Channel

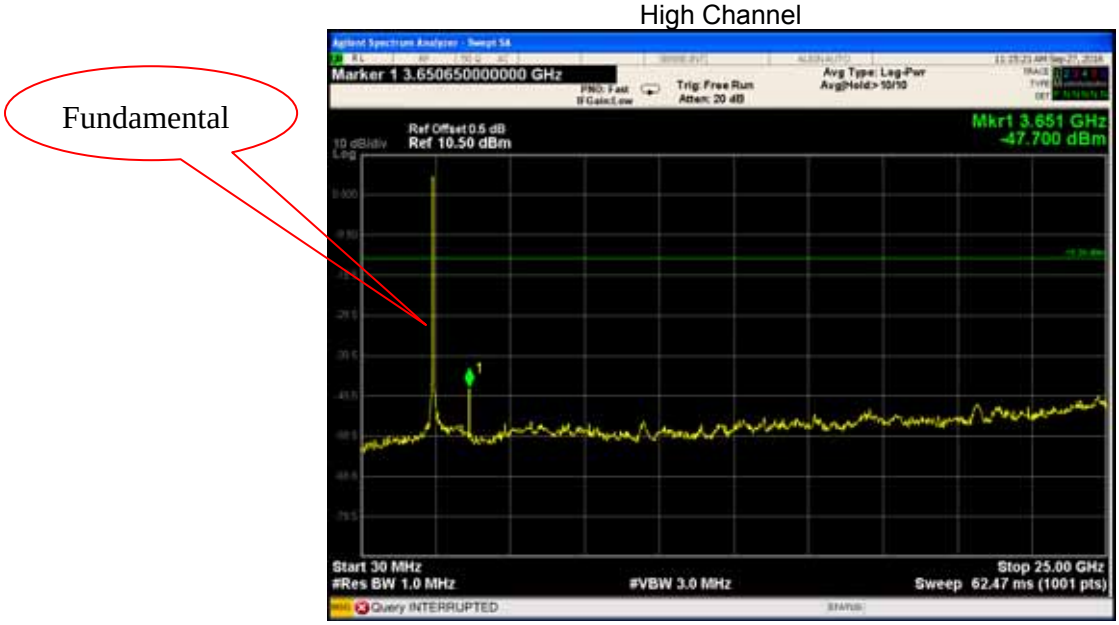


802.11g

Low Channel

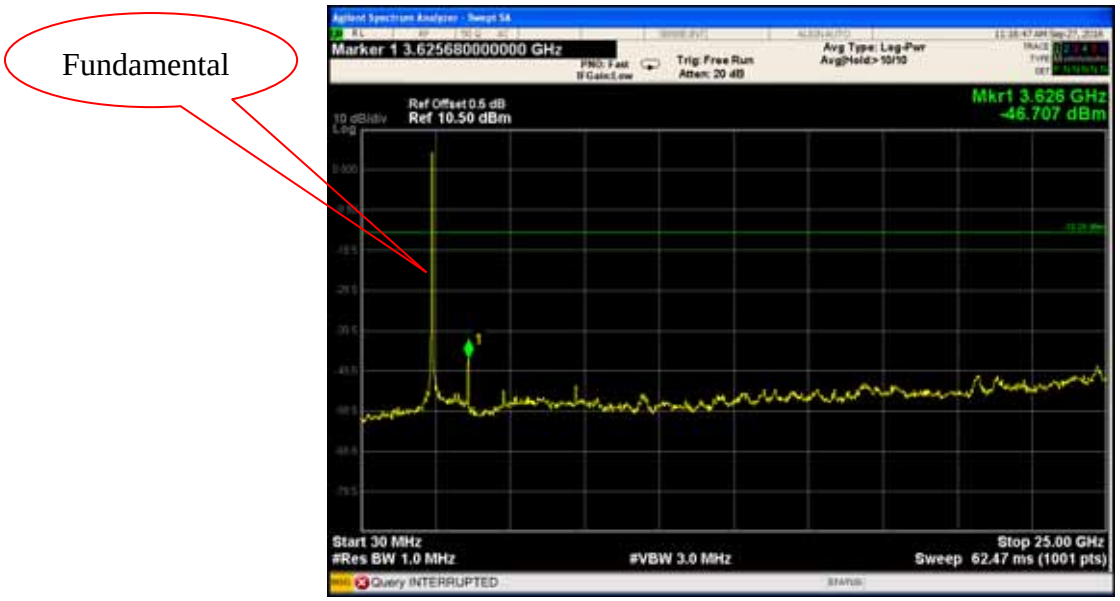
Middle Channel

High Channel

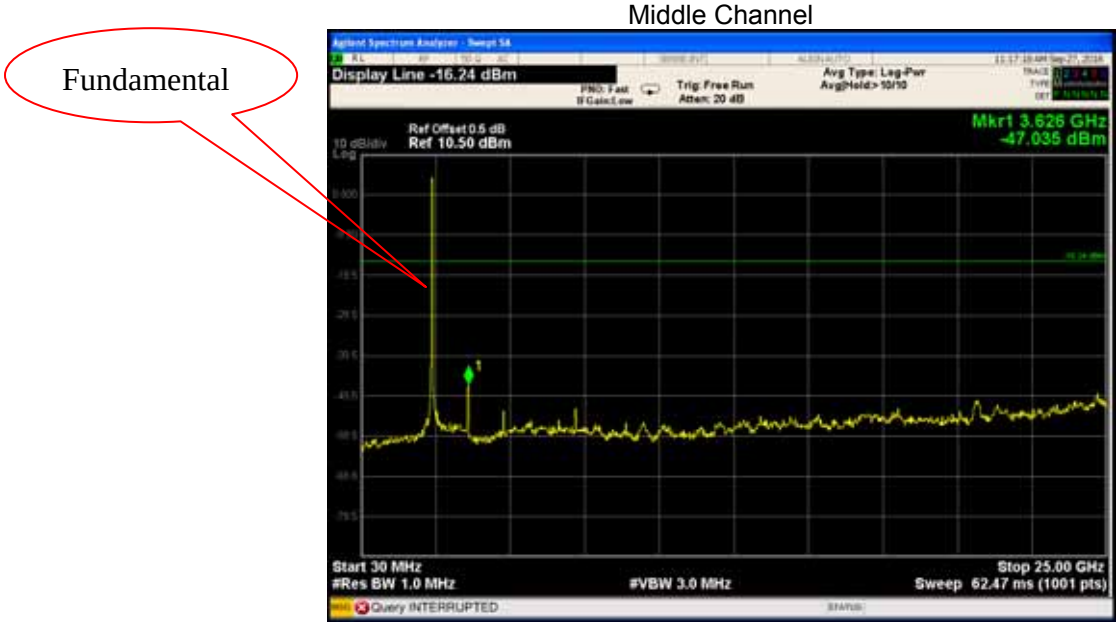


802.11n HT20

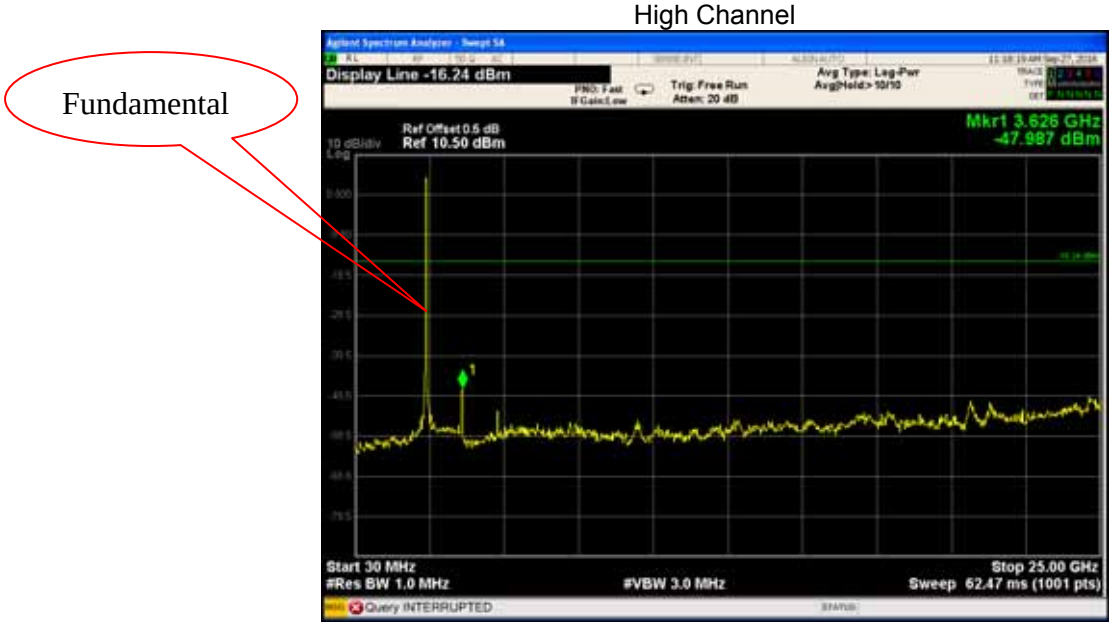
Low Channel



Middle Channel



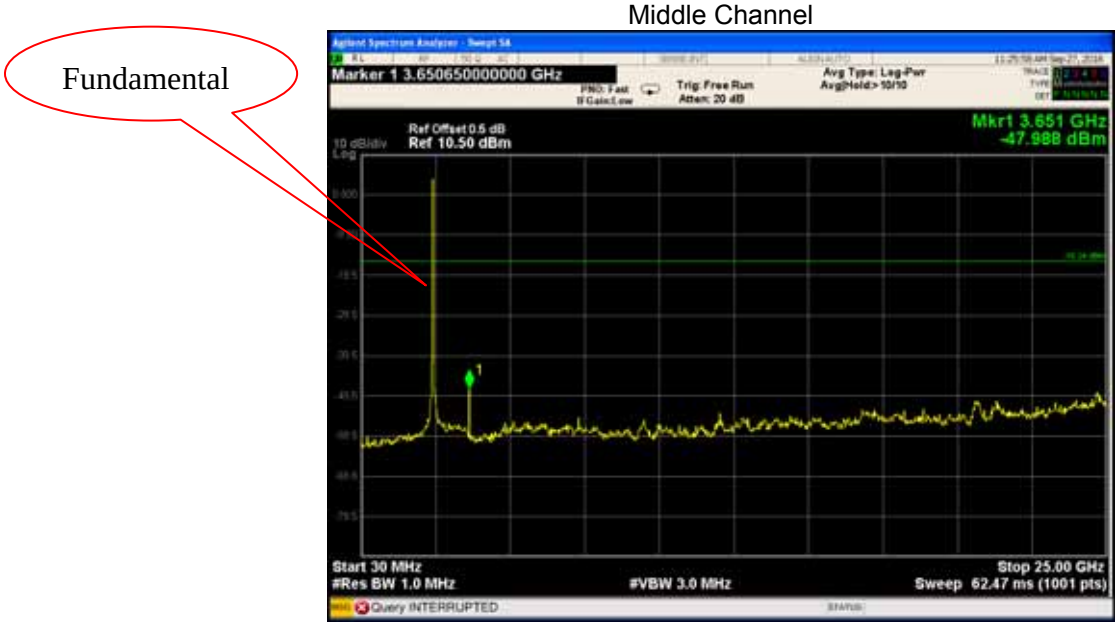
High Channel



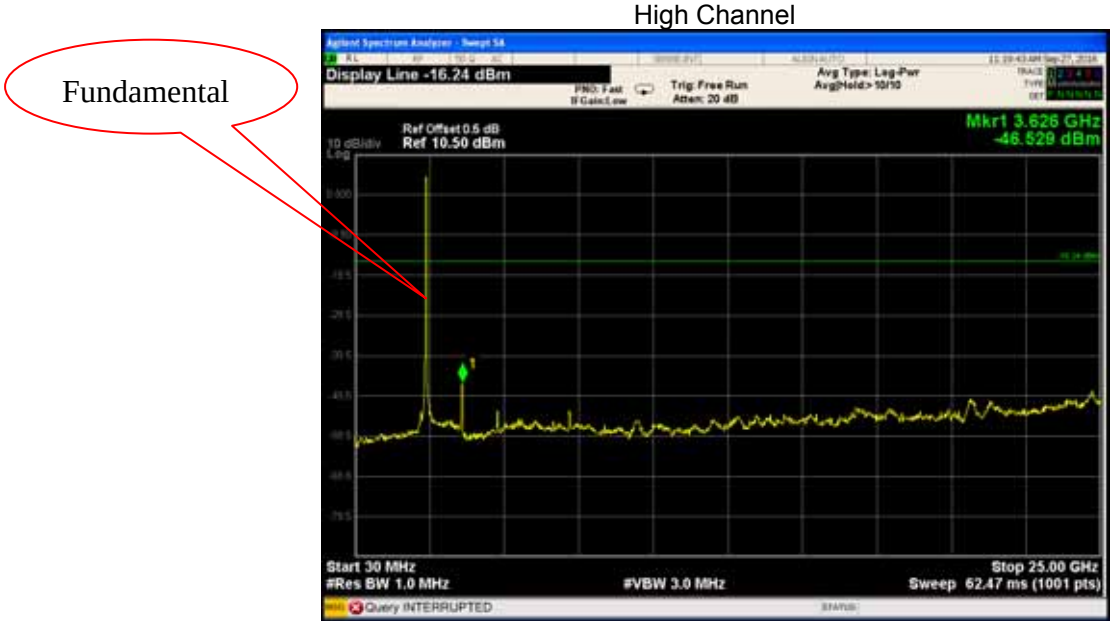
802.11n HT40

Low Channel

Middle Channel

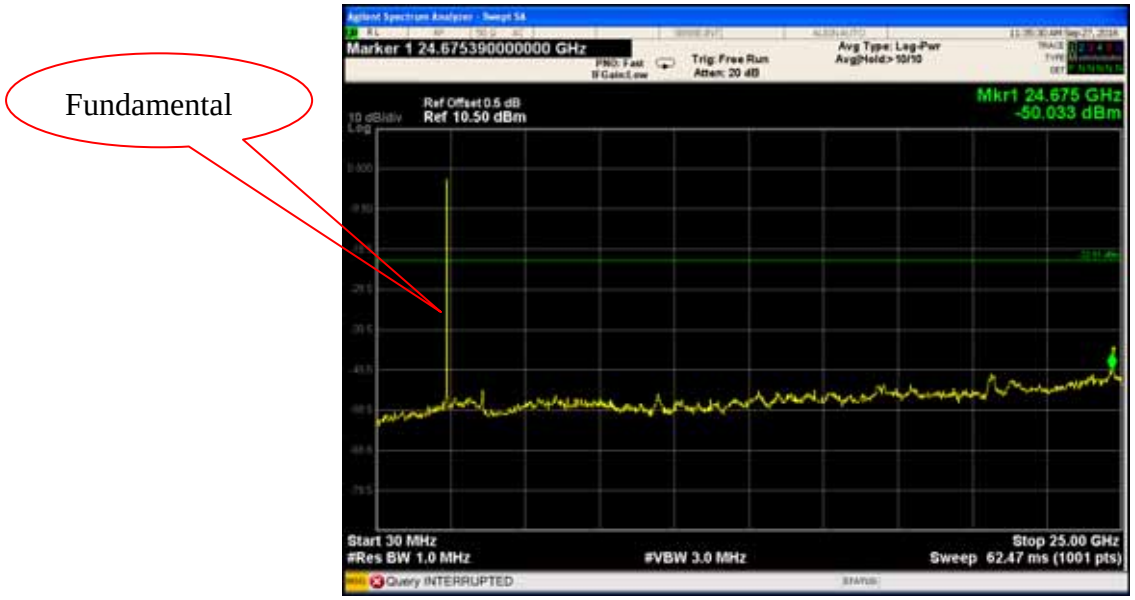


High Channel

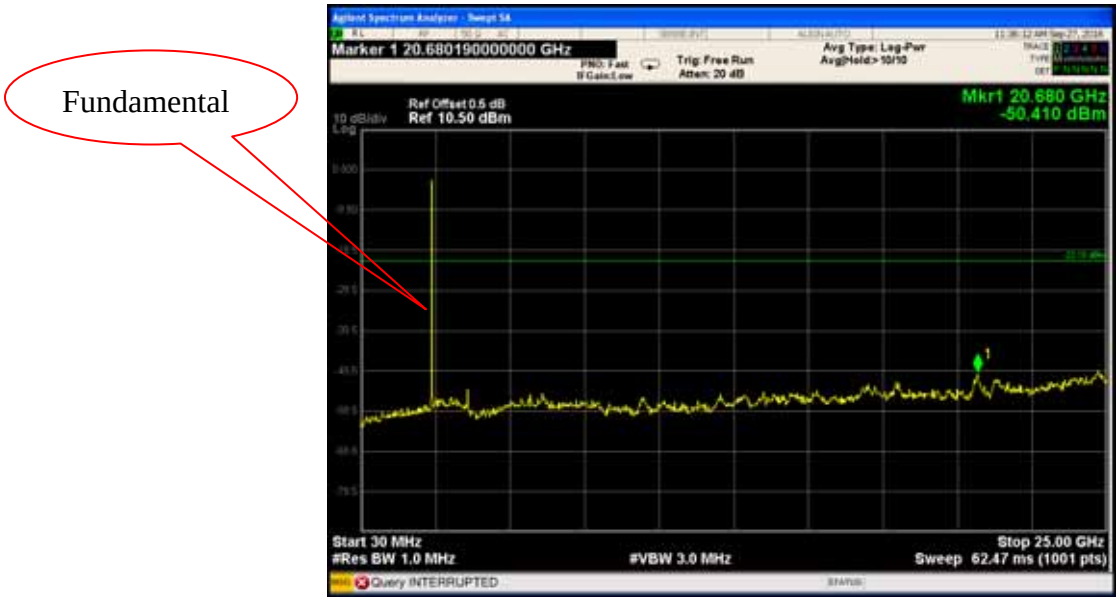


BLE

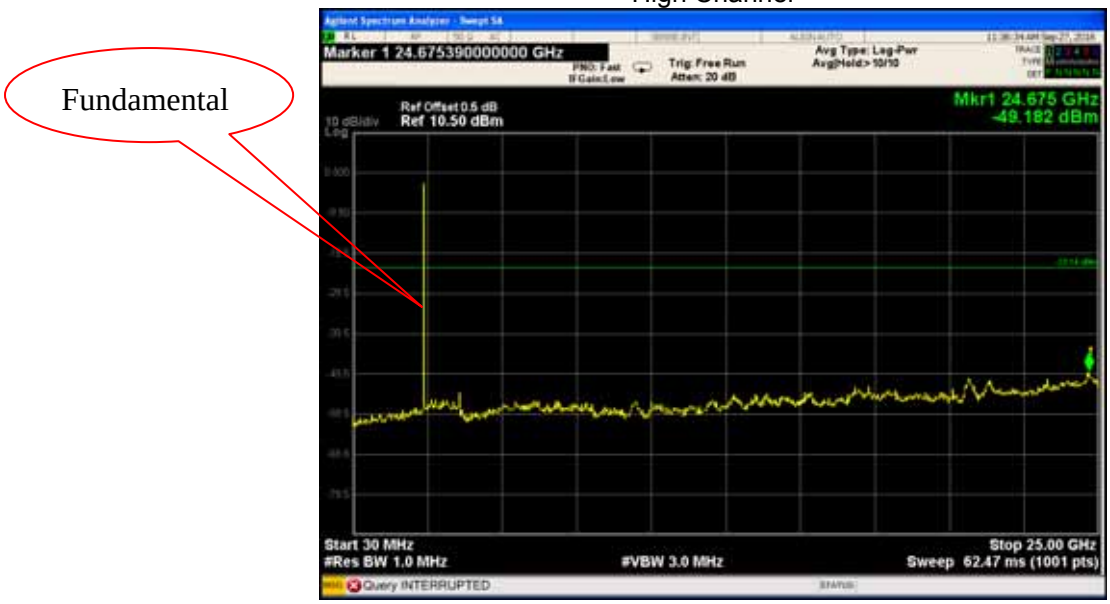
Low Channel



Middle Channel



High Channel



10 Band Edge Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016

Test Limit: Regulation 15.247 (d),In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Mode: Transmitting

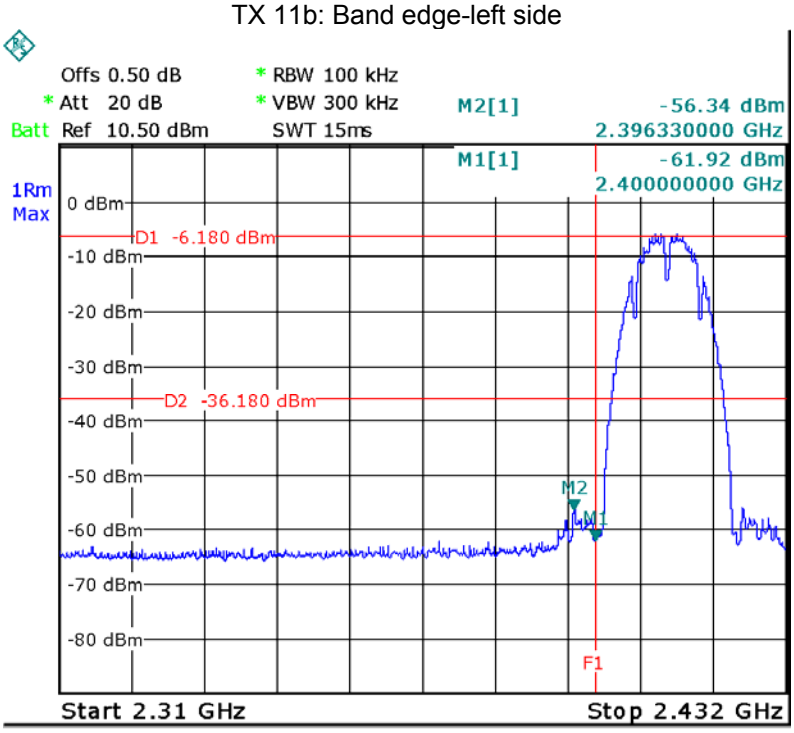
10.1 Test Produce

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

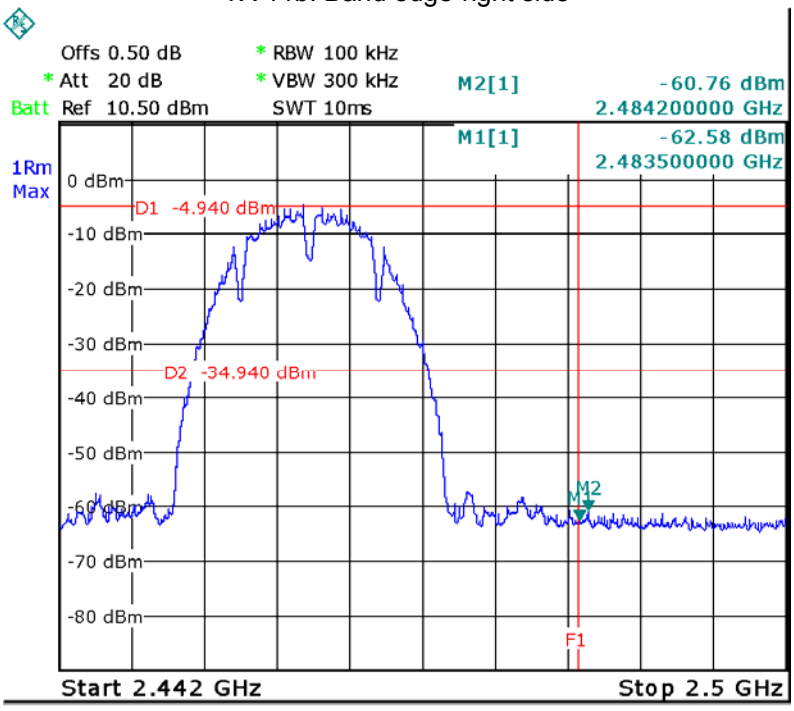
10.2 Test Result

Test result plots shown as follows:

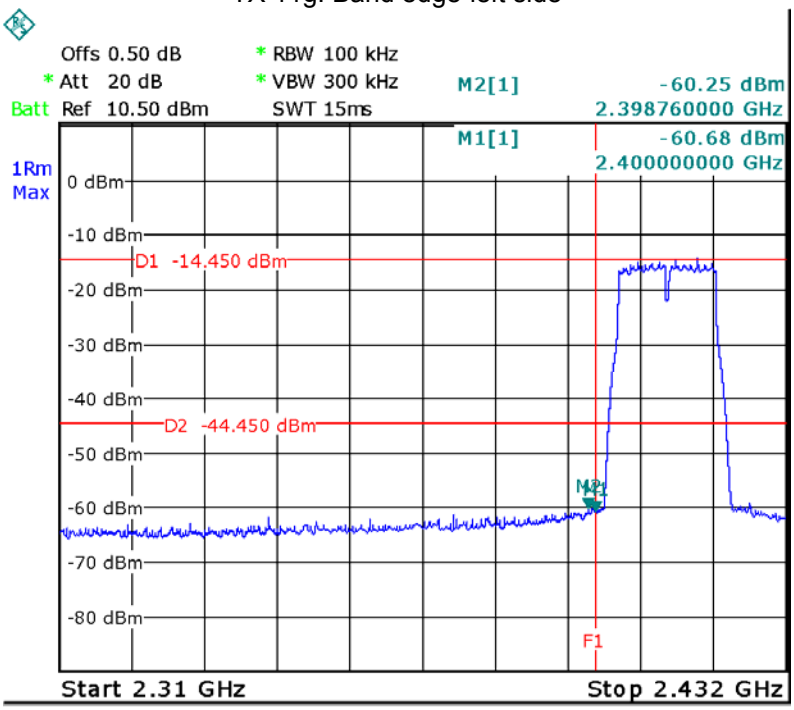
TX 11b: Band edge-left side



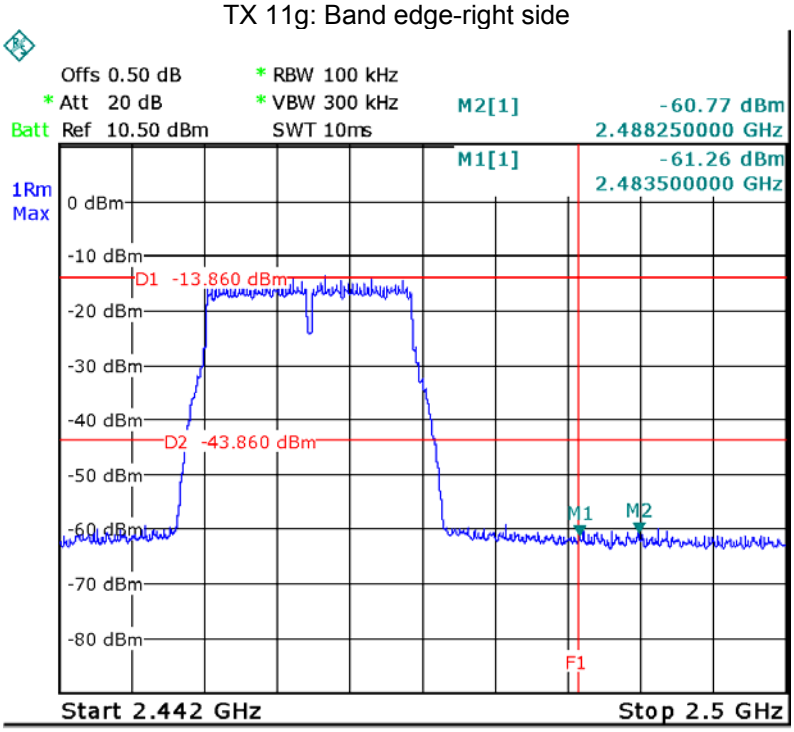
TX 11b: Band edge-right side



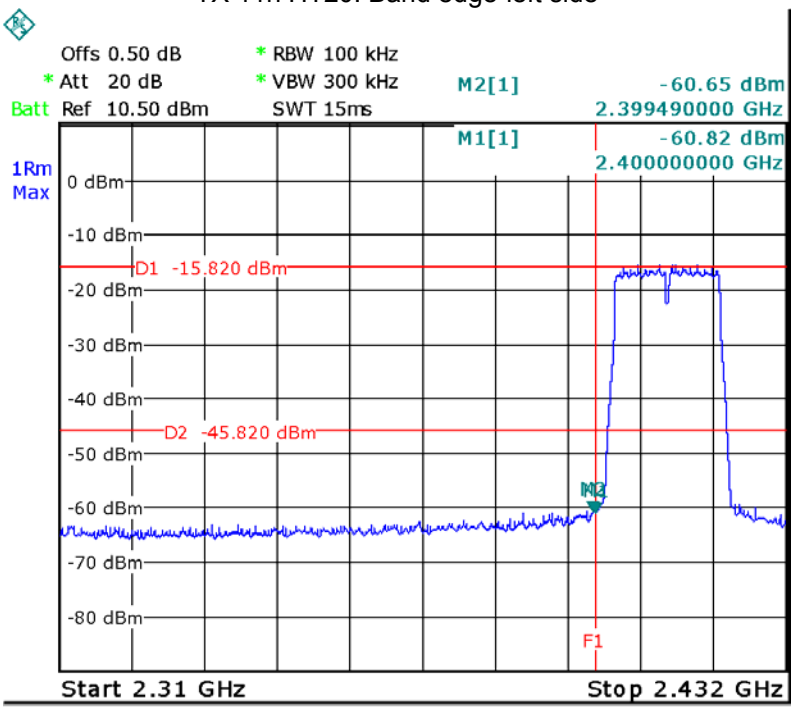
TX 11g: Band edge-left side



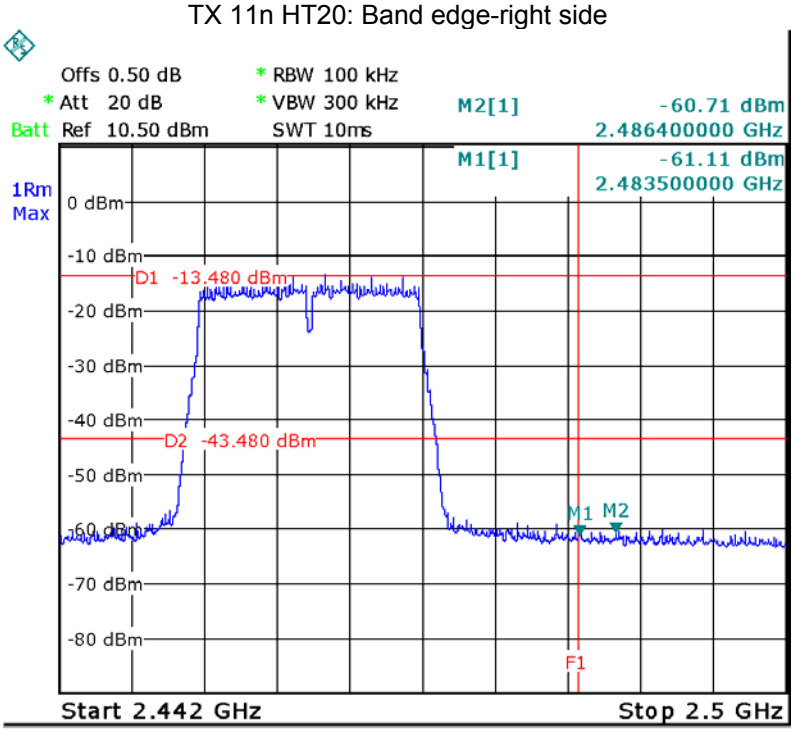
TX 11g: Band edge-right side



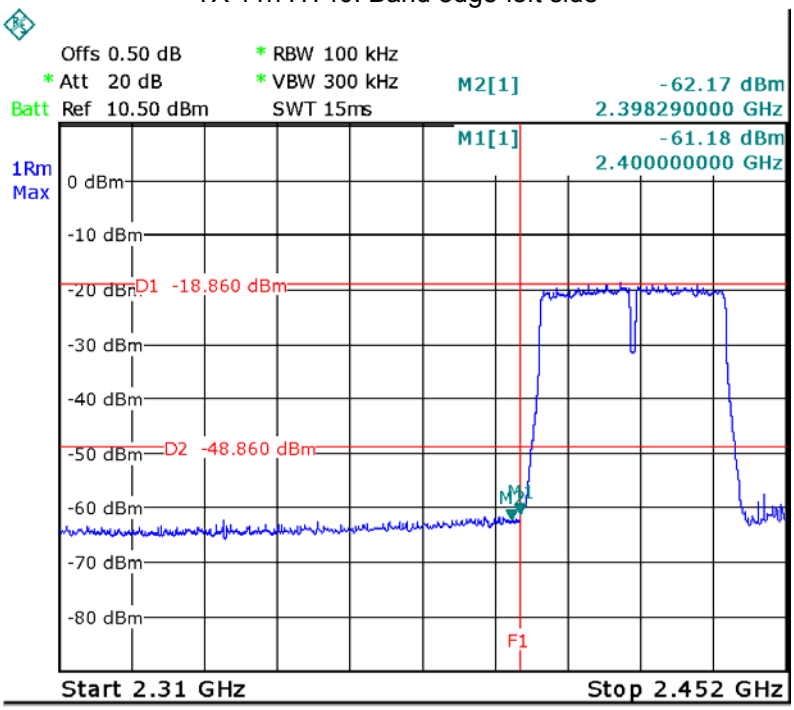
TX 11n HT20: Band edge-left side



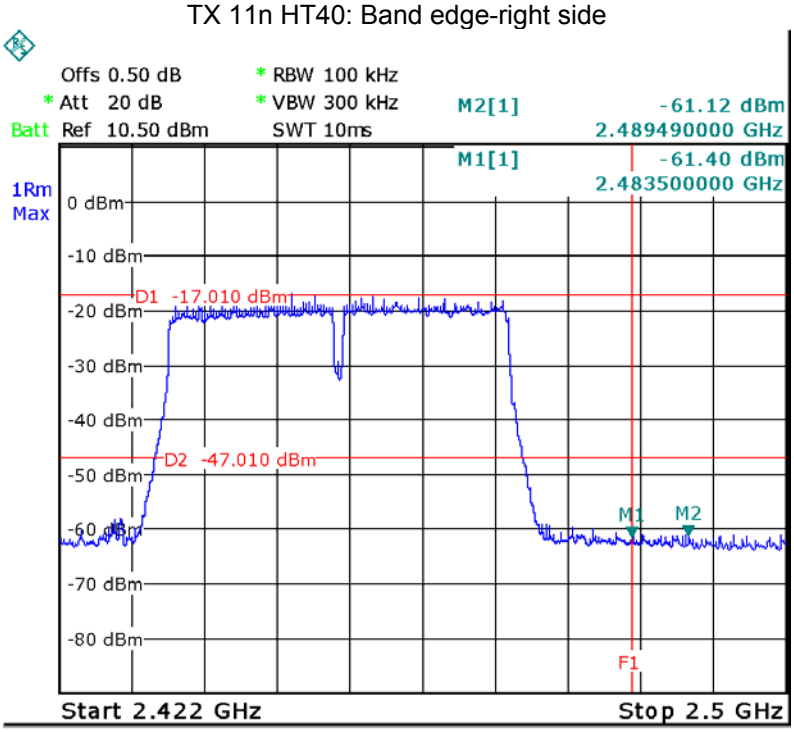
TX 11n HT20: Band edge-right side



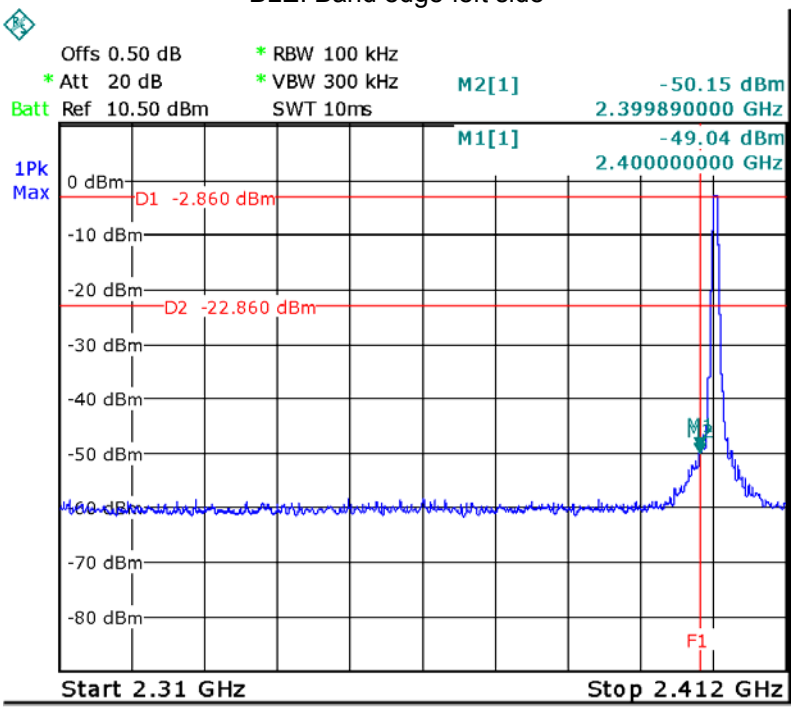
TX 11n HT40: Band edge-left side



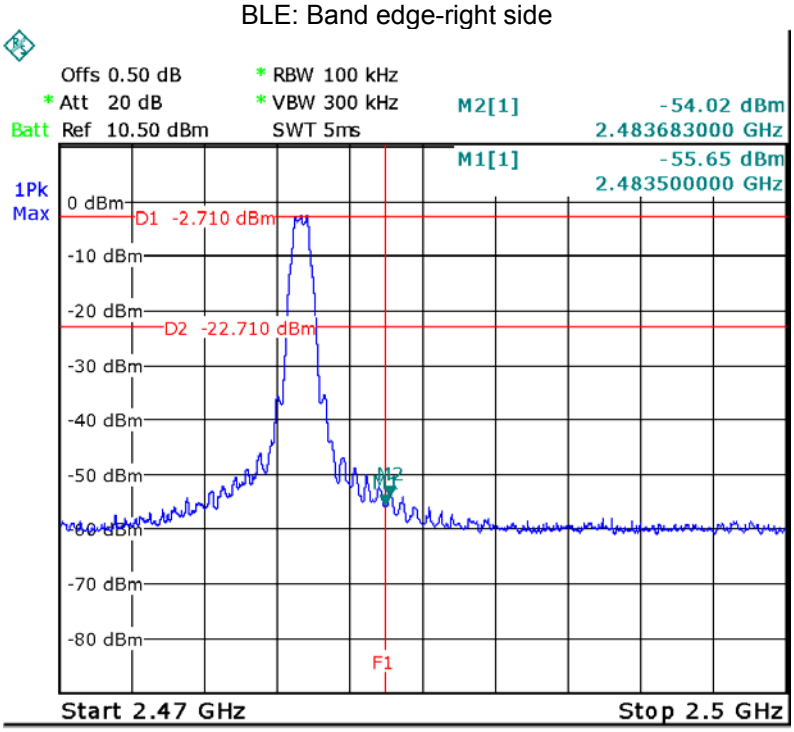
TX 11n HT40: Band edge-right side



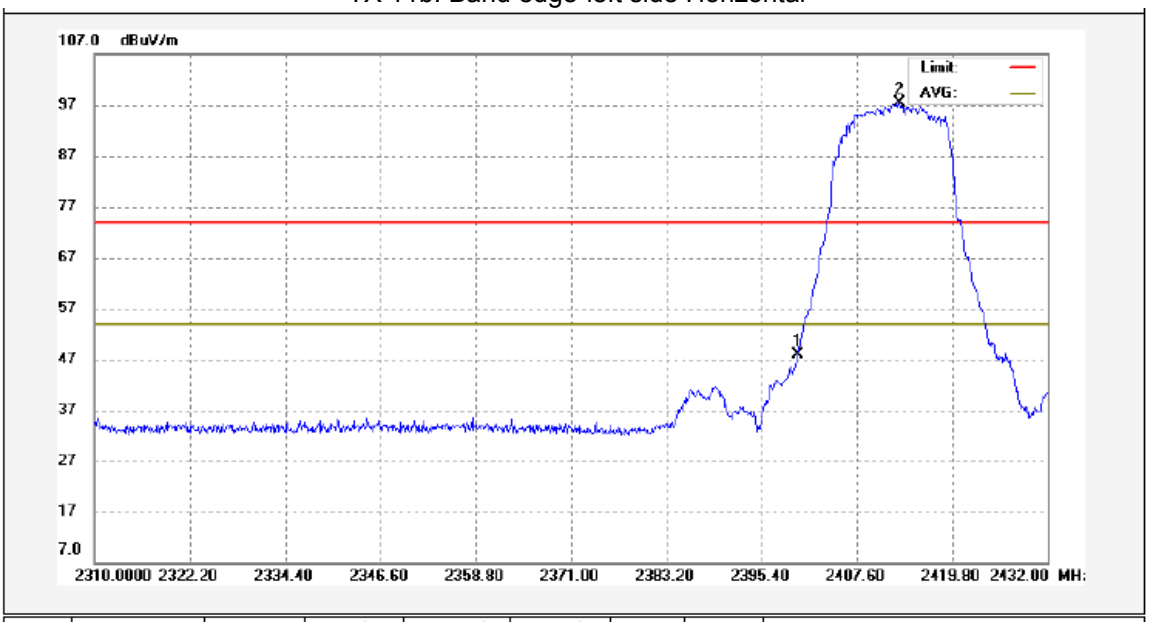
BLE: Band edge-left side



BLE: Band edge-right side

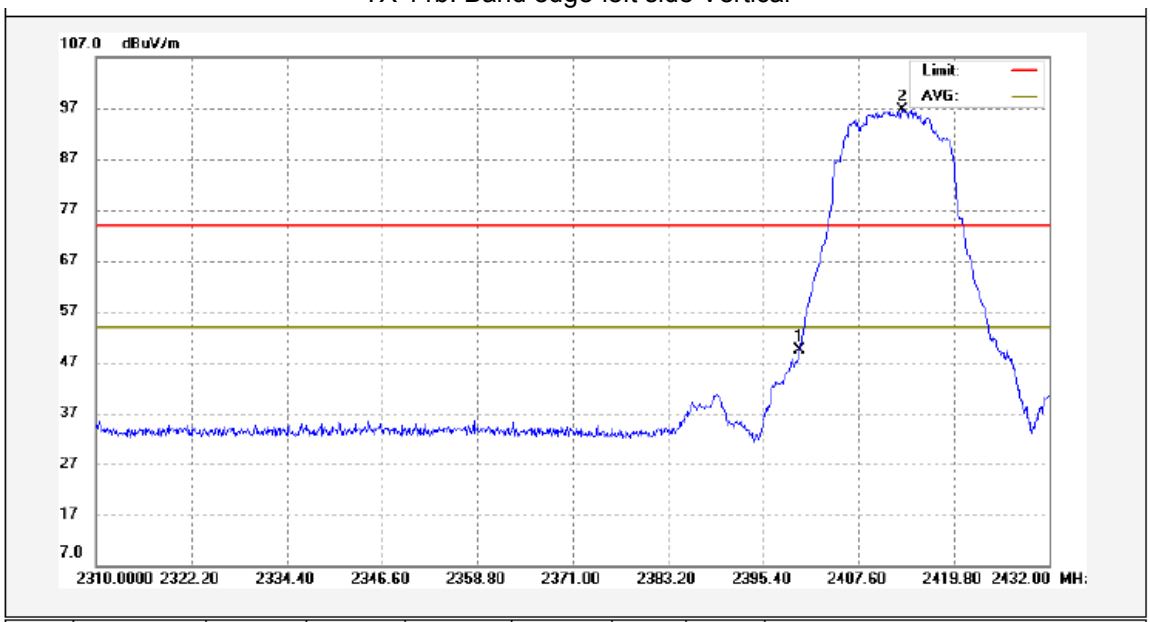


TX 11b: Band edge-left side Horizontal



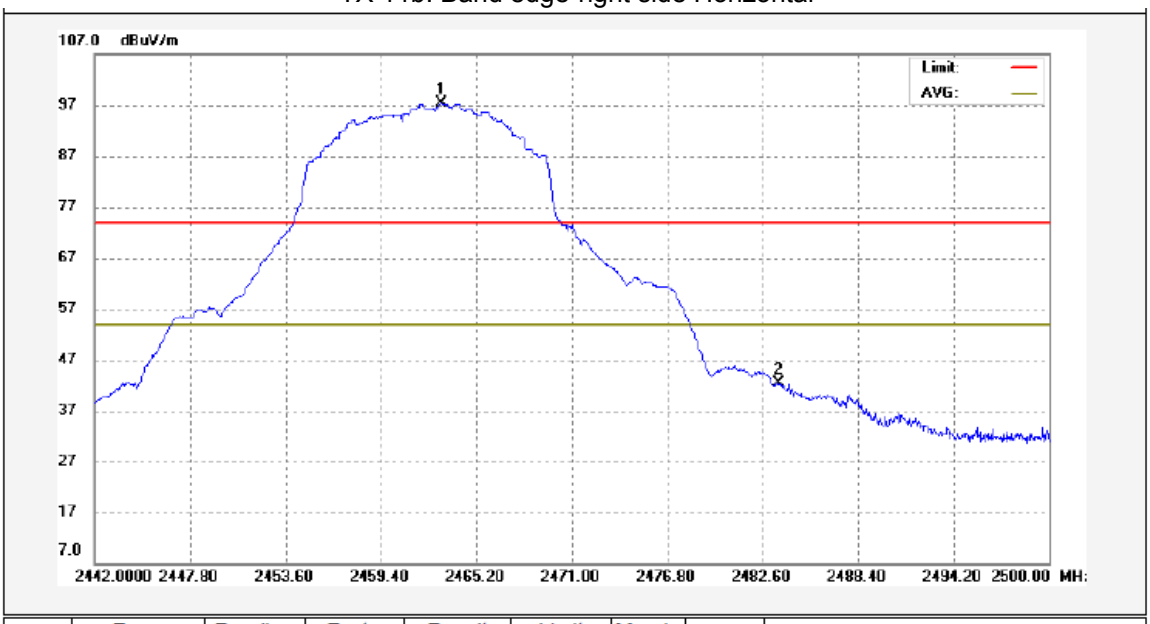
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	63.14	-15.24	47.90	74.00	-26.10	peak	
2	2413.090	112.74	-15.26	97.48	/	/	peak	

TX 11b: Band edge-left side Vertical



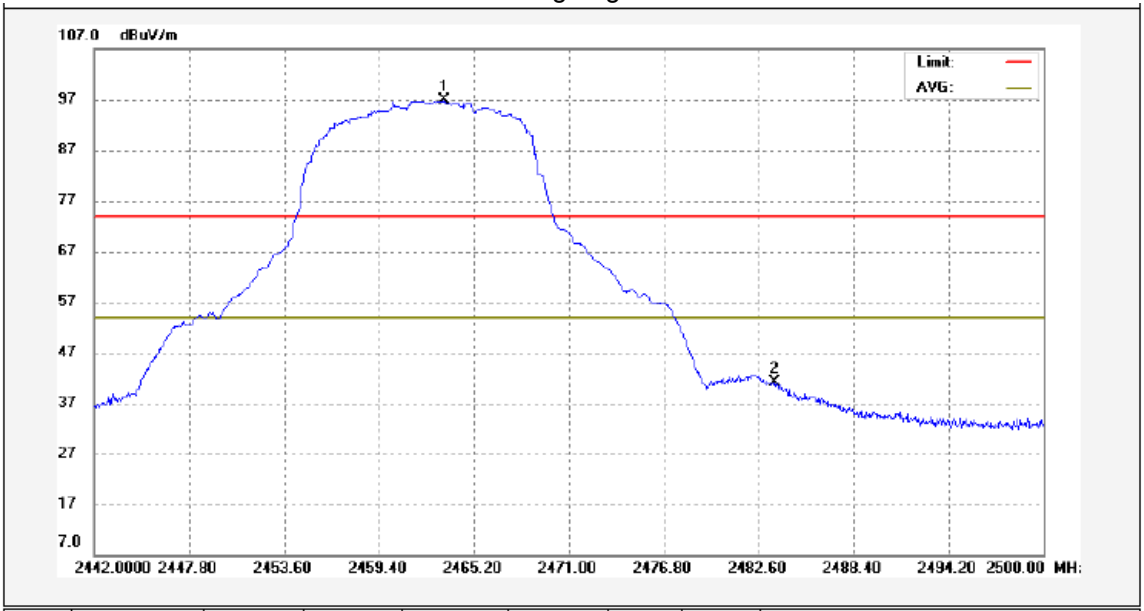
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	64.64	-15.24	49.40	74.00	-24.60	peak	
2	2413.212	111.97	-15.26	96.71	/	/	peak	

TX 11b: Band edge-right side Horizontal



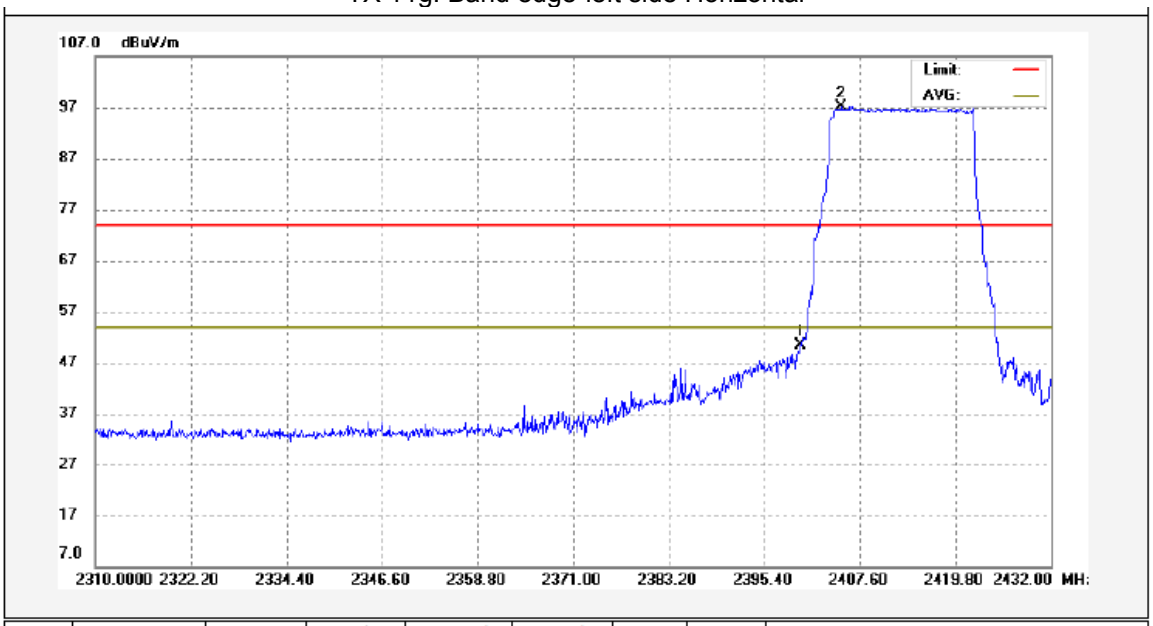
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2463.054	112.84	-15.35	97.49	/	/	peak	
2	2483.500	57.71	-15.39	42.32	74.00	-31.68	peak	

TX 11b: Band edge-right side Vertical



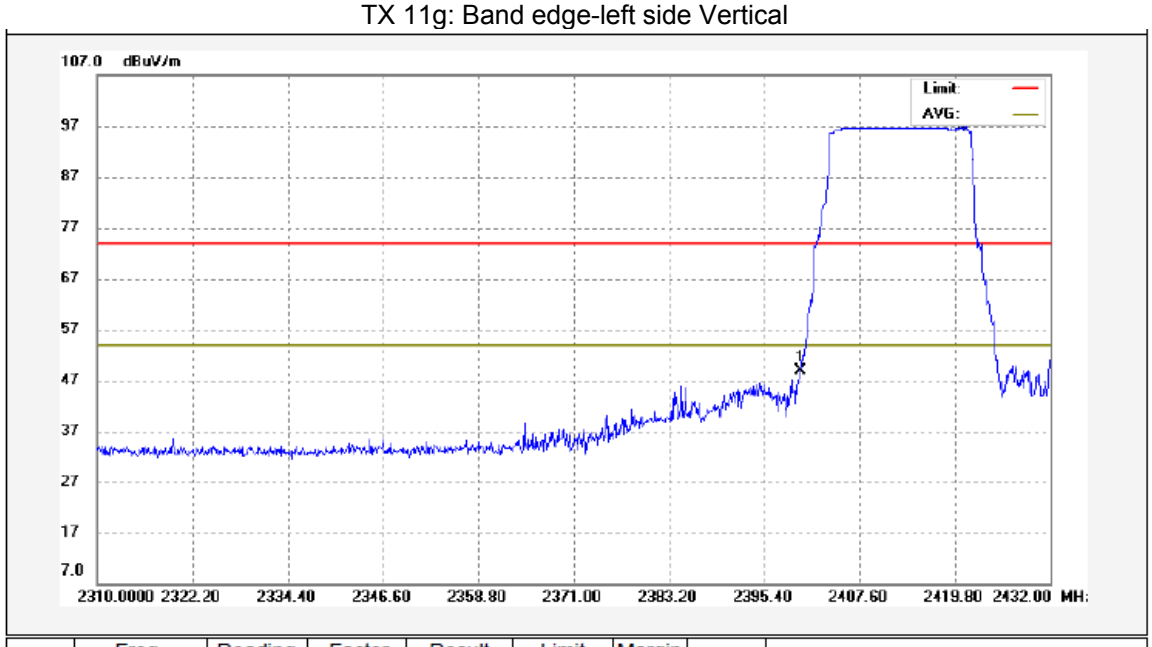
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2463.344	112.14	-15.34	96.80	/	/	peak	
2	2483.500	56.58	-15.39	41.19	74.00	-32.81	peak	

TX 11g: Band edge-left side Horizontal



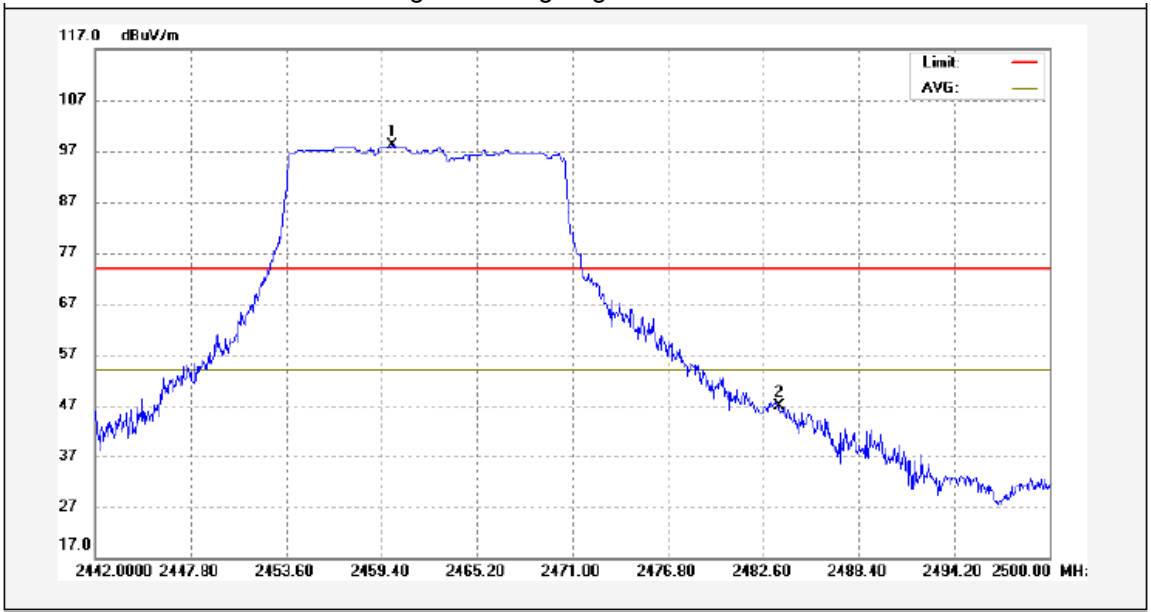
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	65.61	-15.24	50.37	74.00	-23.63	peak	
2	2405.282	112.45	-15.24	97.21	/	/	peak	

TX 11g: Band edge-left side Vertical



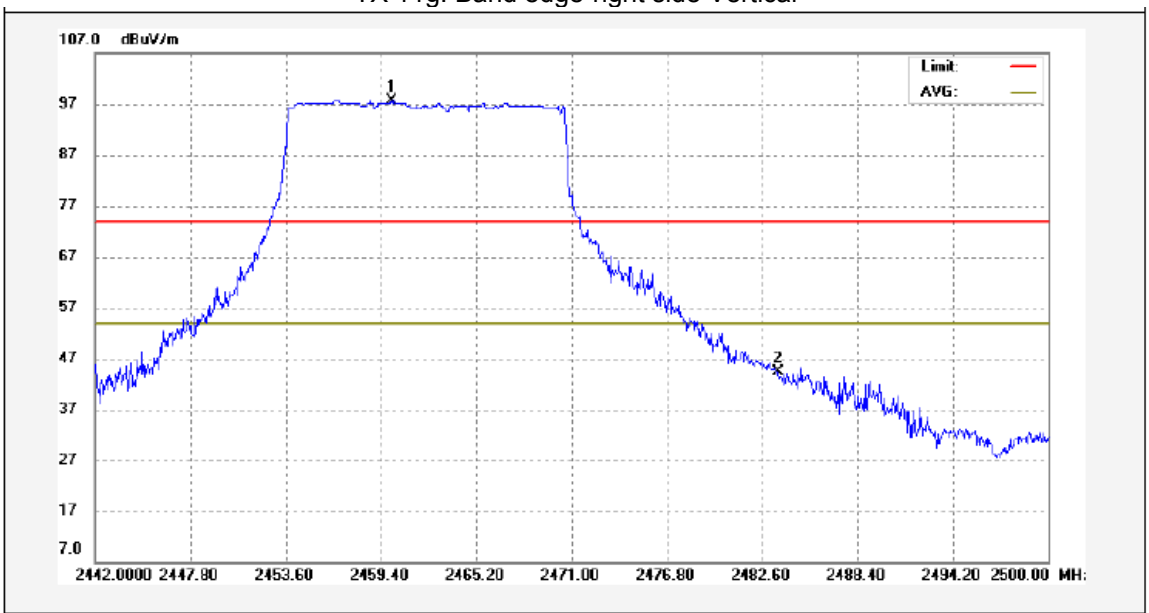
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	64.11	-15.24	48.87	74.00	-25.13	peak	
2	2420.654	112.26	-15.27	96.99	/	/	peak	

TX 11g: Band edge-right side Horizontal



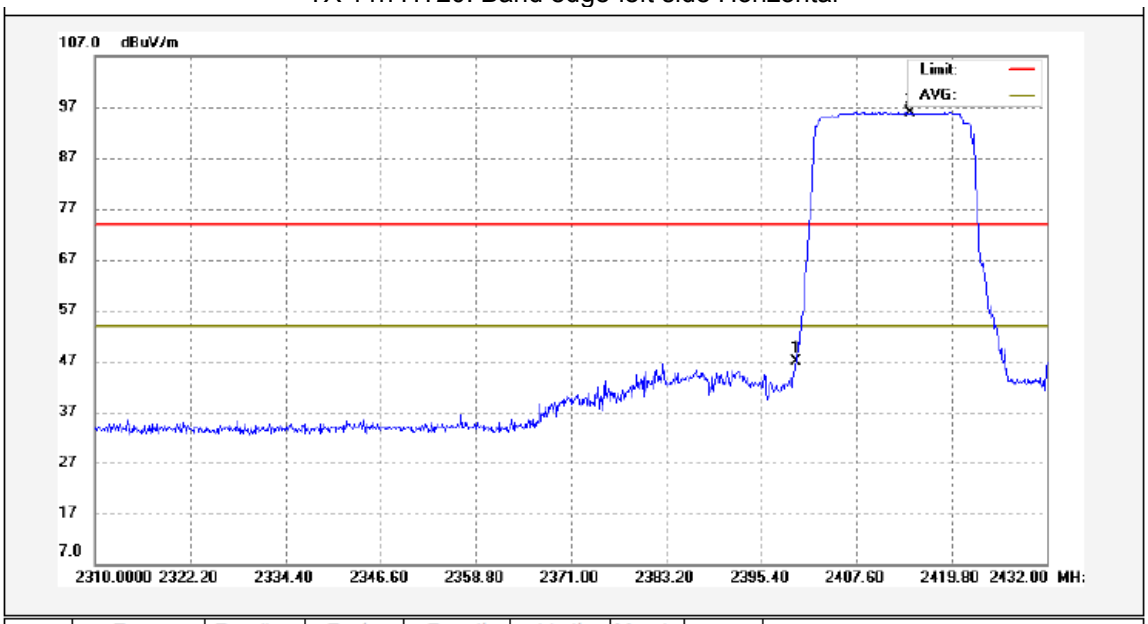
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2460.038	113.52	-15.34	98.18	/	/	peak	
2	2483.500	62.18	-15.39	46.79	74.00	-27.21	peak	

TX 11g: Band edge-right side Vertical



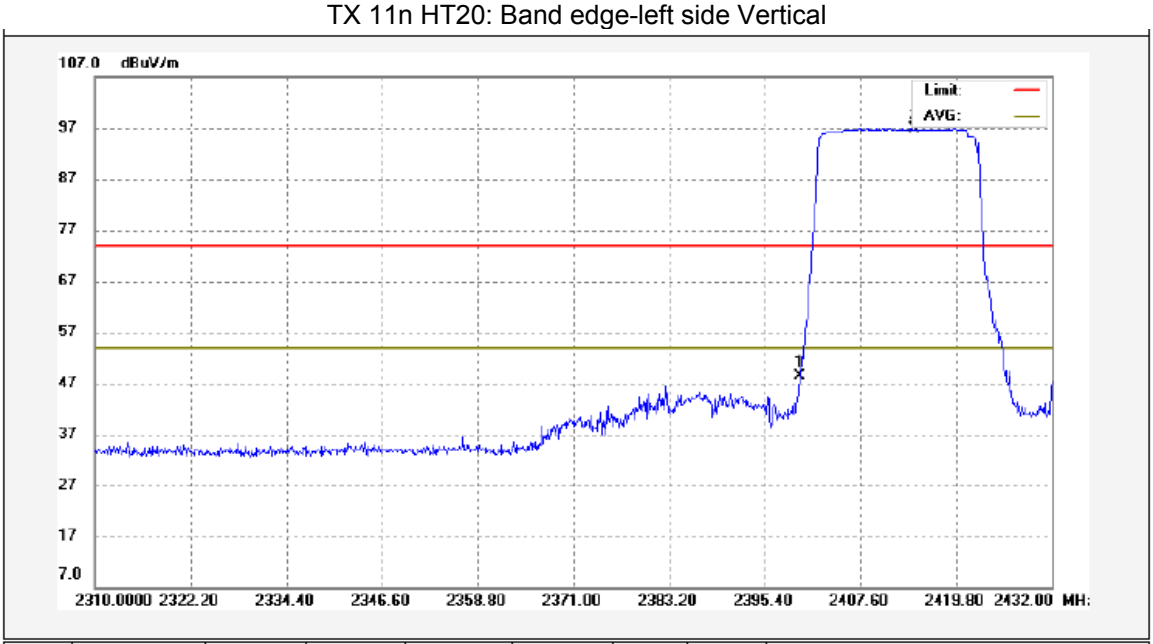
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2460.038	113.02	-15.34	97.68	/	/	peak	
2	2483.500	59.68	-15.39	44.29	74.00	-29.71	peak	

TX 11n HT20: Band edge-left side Horizontal



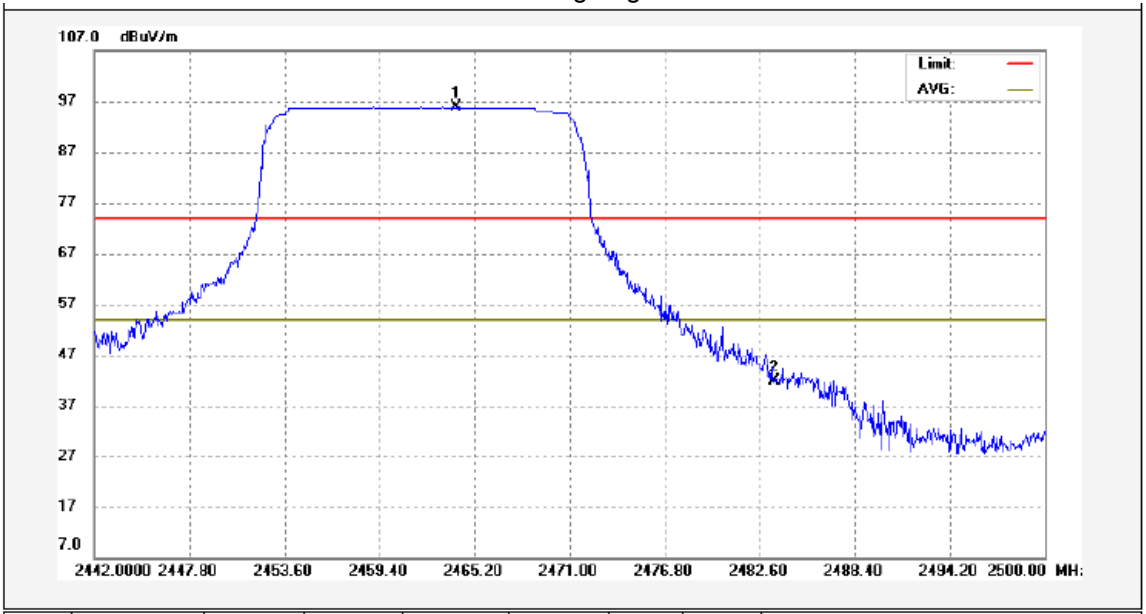
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	62.20	-15.24	46.96	74.00	-27.04	peak	
2	2414.554	111.08	-15.25	95.83	/	/	peak	

TX 11n HT20: Band edge-left side Vertical



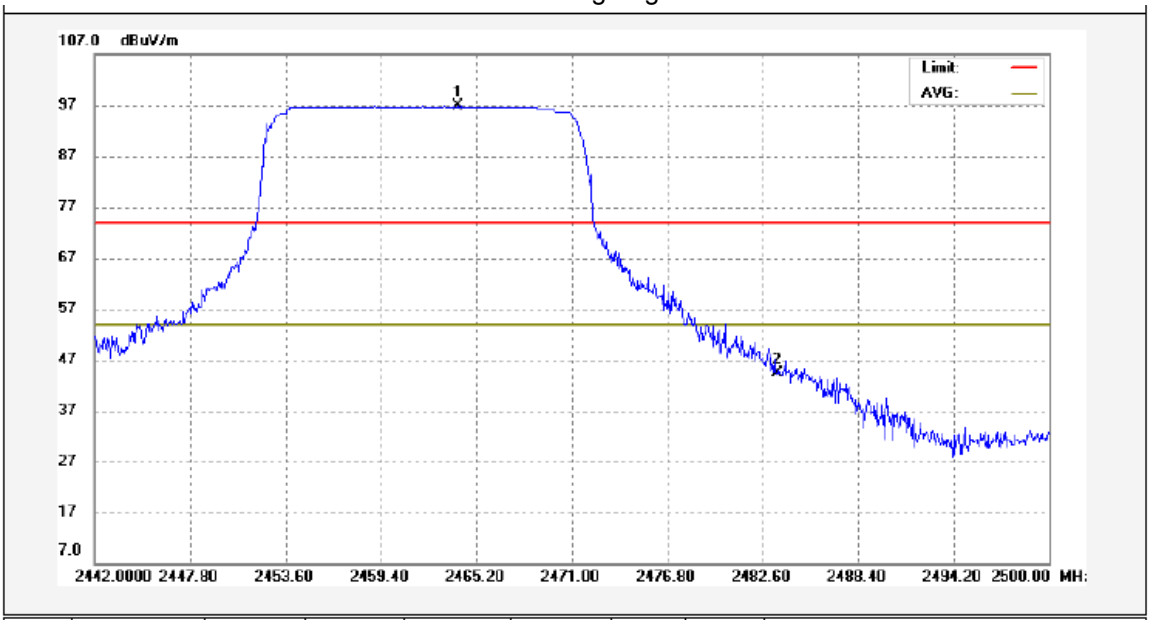
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	63.70	-15.24	48.46	74.00	-25.54	peak	
2	2414.554	112.08	-15.25	96.83	/	/	peak	

TX 11n HT20: Band edge-right side Horizontal



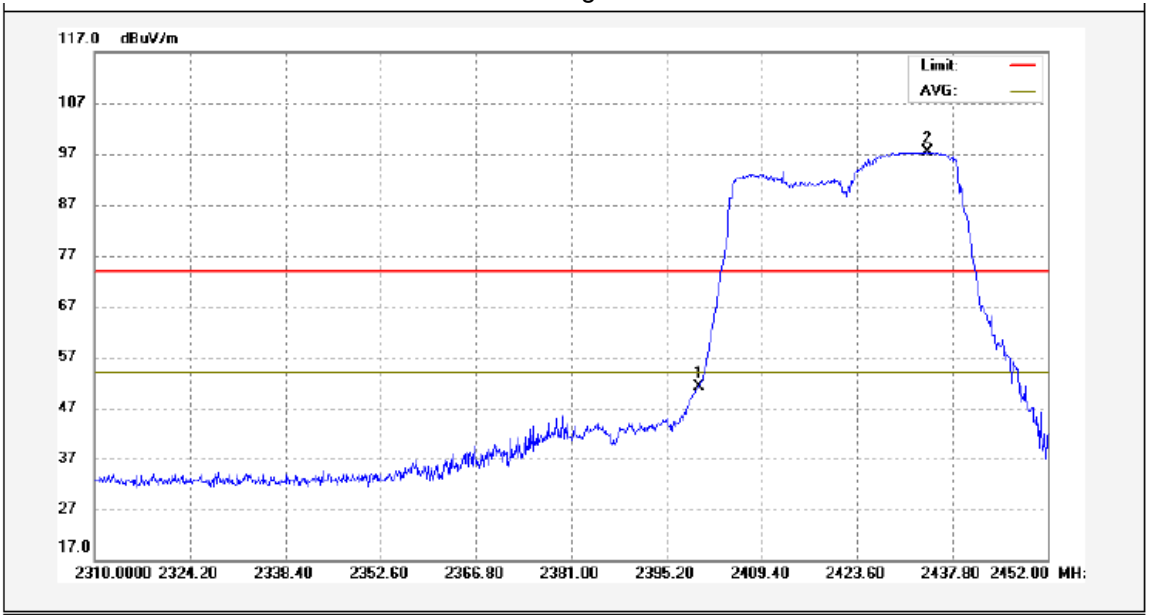
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2464.098	111.13	-15.34	95.79	/	/	peak	
2	2483.500	57.28	-15.39	41.89	74.00	-32.11	peak	

TX 11n HT20: Band edge-right side Vertical



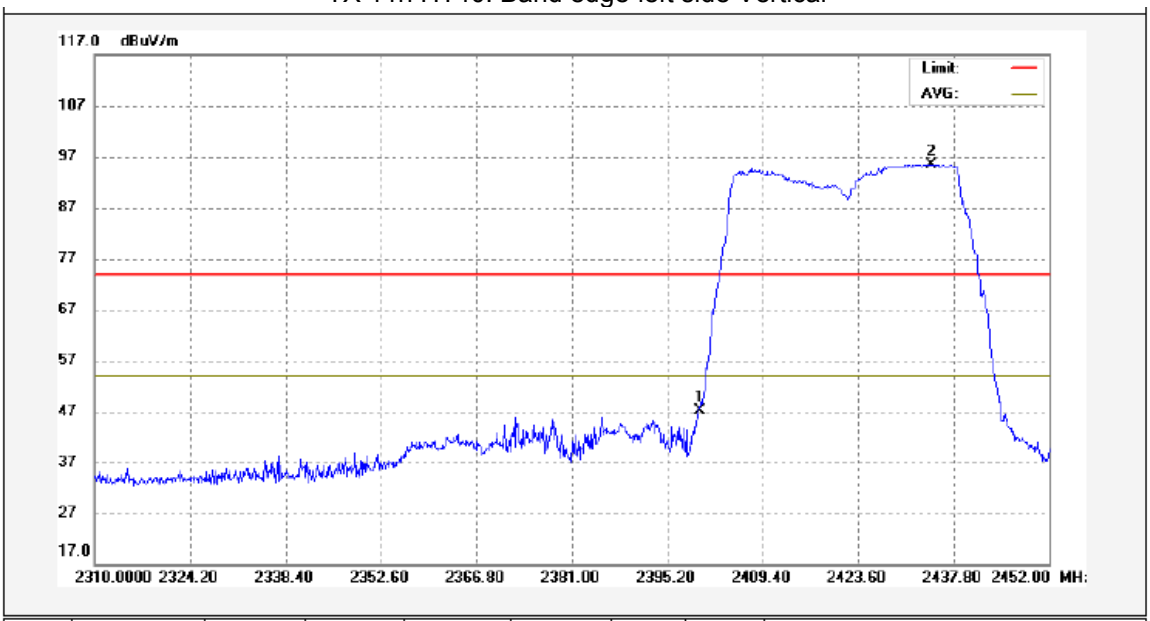
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2464.098	112.13	-15.34	96.79	/	/	peak	
2	2483.500	59.78	-15.39	44.39	74.00	-29.61	peak	

TX 11n HT40: Band edge-left side Horizontal



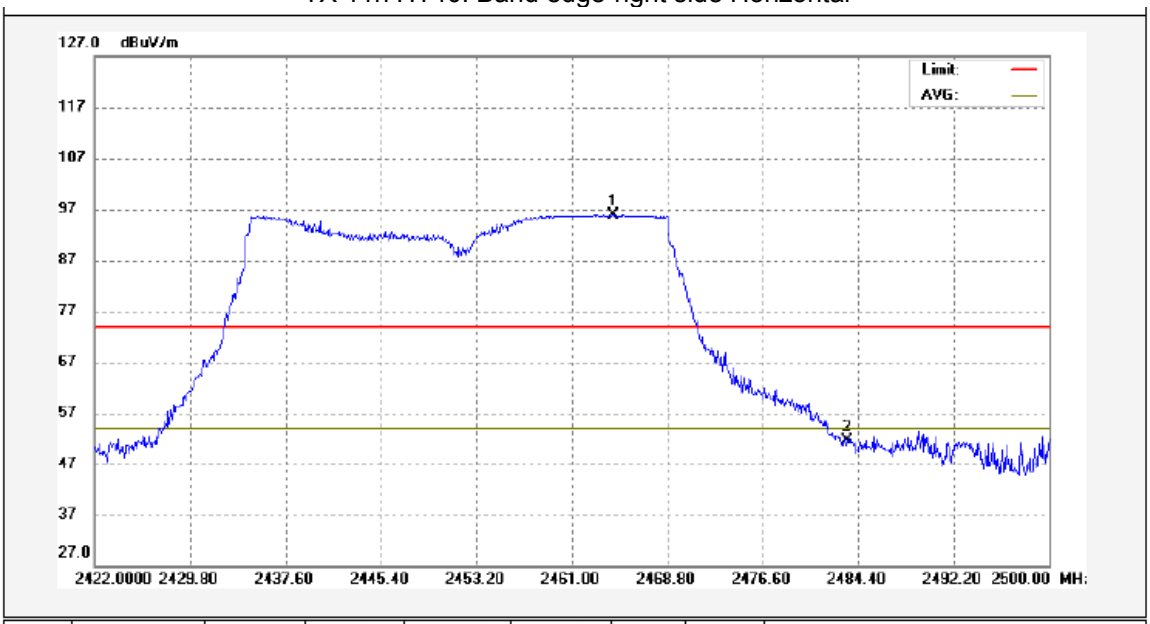
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	66.29	-15.24	51.05	74.00	-22.95	peak	
2	2434.108	112.56	-15.30	97.26	/	/	peak	

TX 11n HT40: Band edge-left side Vertical



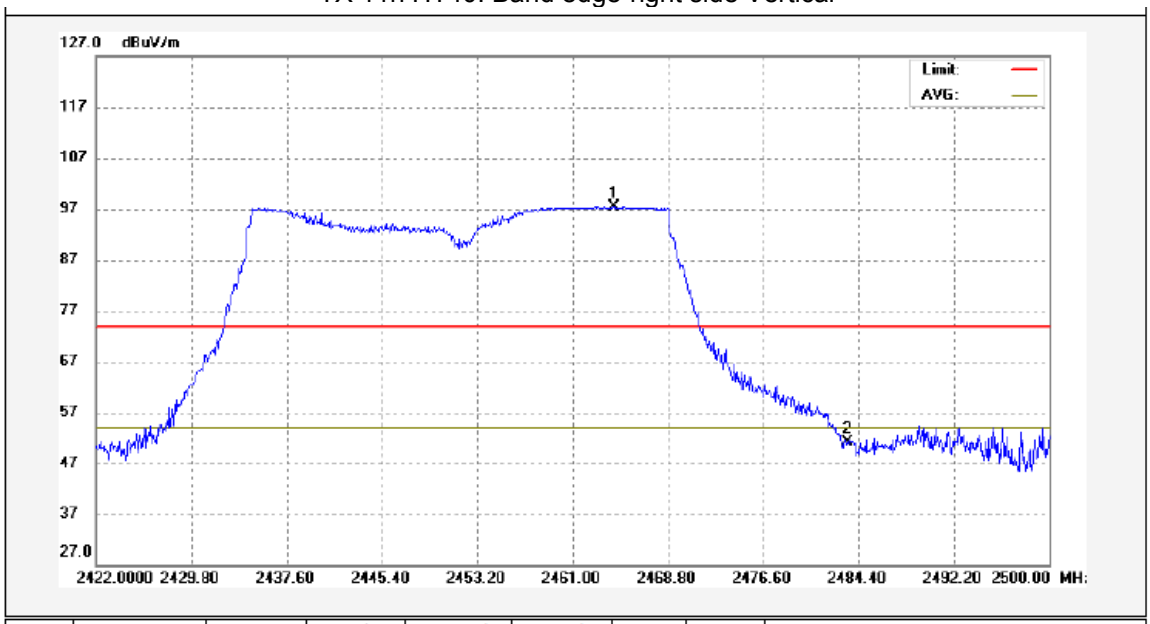
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	62.40	-15.24	47.16	74.00	-26.84	peak	
2	2434.392	110.72	-15.30	95.42	/	/	peak	

TX 11n HT40: Band edge-right side Horizontal



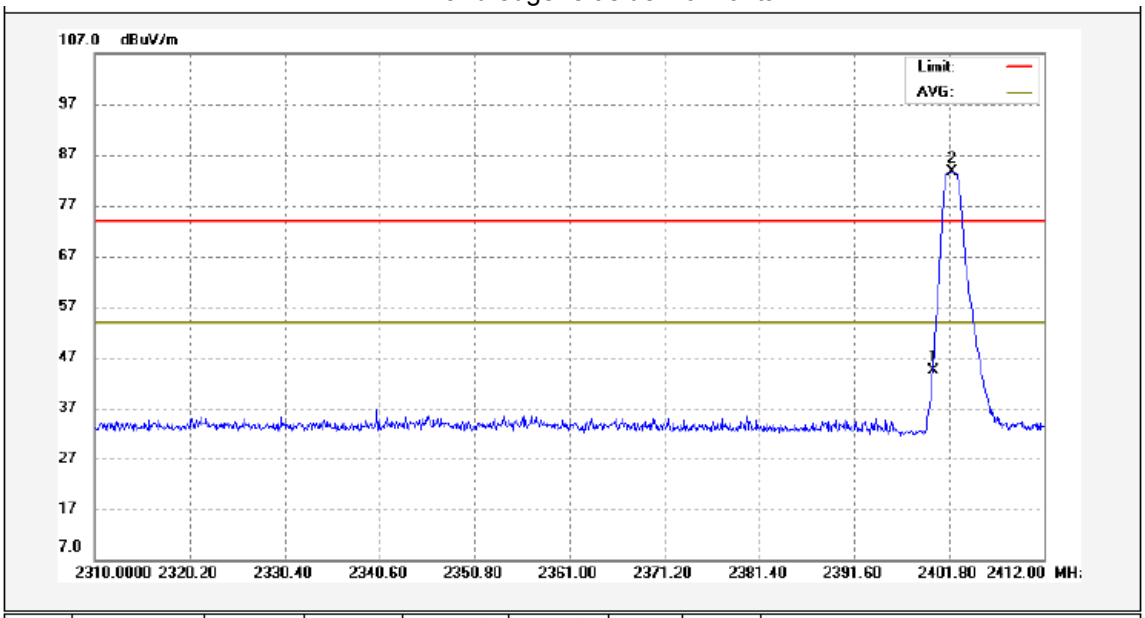
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2464.354	111.16	-15.34	95.82	/	/	peak	
2	2483.500	66.99	-15.39	51.60	74.00	-22.40	peak	

TX 11n HT40: Band edge-right side Vertical



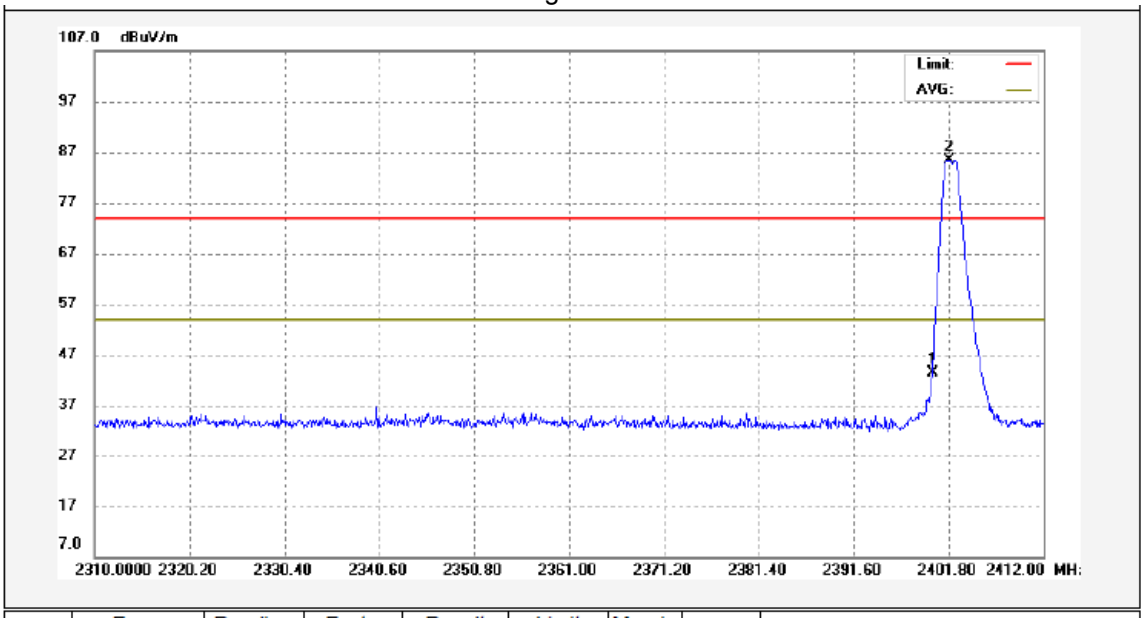
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2464.354	112.66	-15.34	97.32	/	/	peak	
2	2483.500	66.50	-15.39	51.11	74.00	-22.89	peak	

BLE: Band edge-left side Horizontal



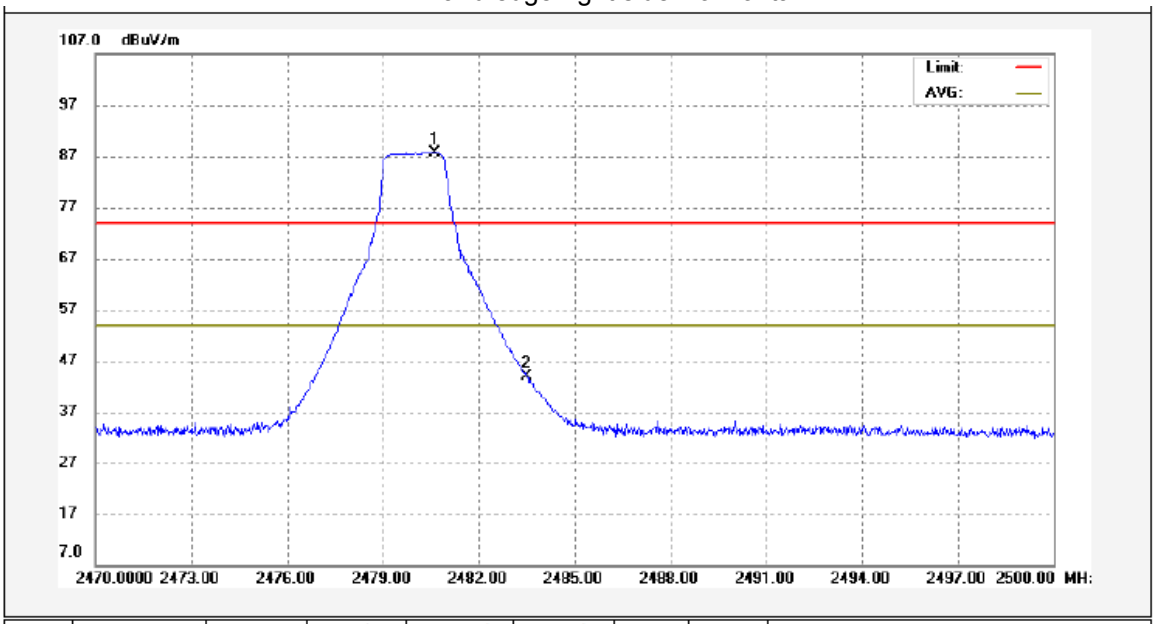
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	59.58	-15.24	44.34	74.00	-29.66	peak	
2	2402.106	98.81	-15.24	83.57	/	/	peak	

BLE: Band edge-left side Vertical



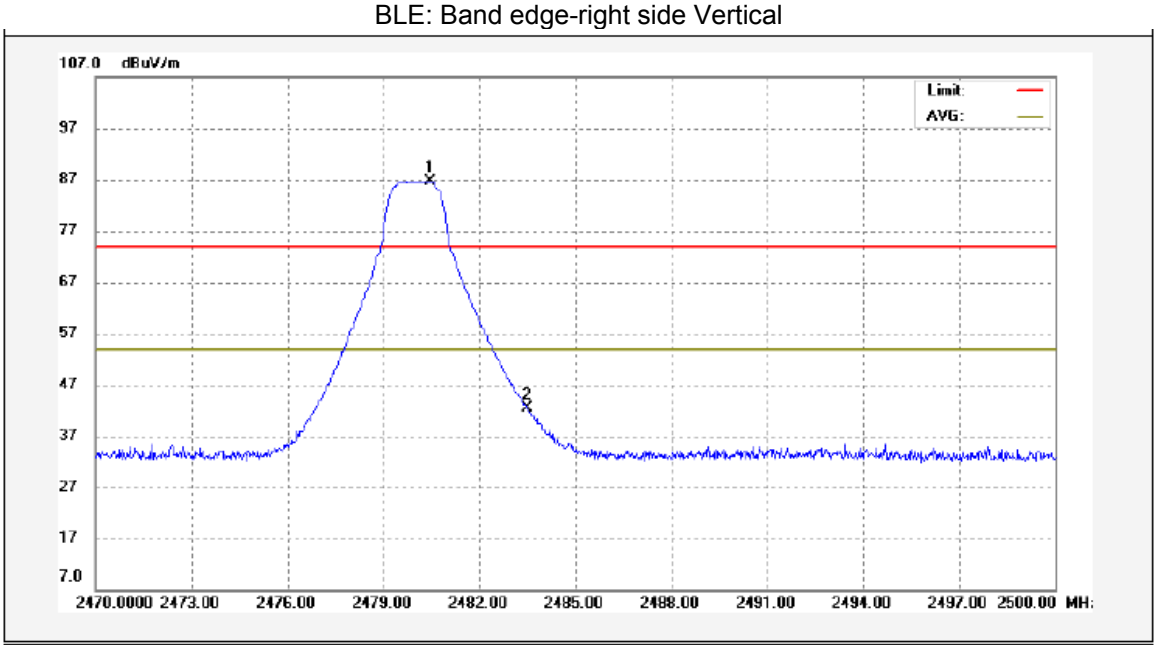
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	58.58	-15.24	43.34	74.00	-30.66	peak	
2	2401.902	100.69	-15.23	85.46	/	/	peak	

BLE: Band edge-right side Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2480.620	103.08	-15.38	87.70	/	/	peak	
2	2483.500	59.39	-15.39	44.00	74.00	-30.00	peak	

BLE: Band edge-right side Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2480.440	102.10	-15.38	86.72	/	/	peak	
2	2483.500	57.75	-15.39	42.36	74.00	-31.64	peak	

11 6 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016

11.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

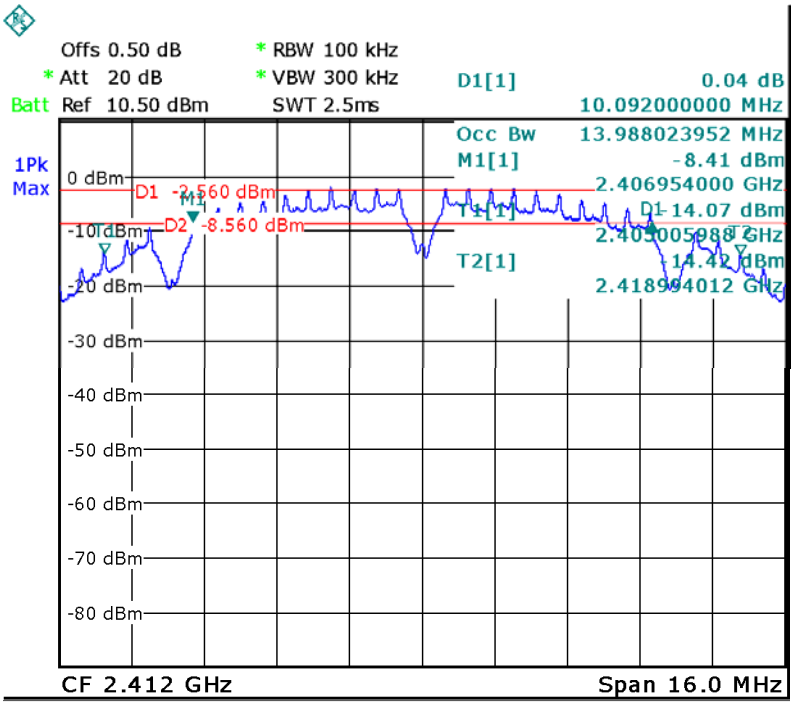
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

11.2 Test Result:

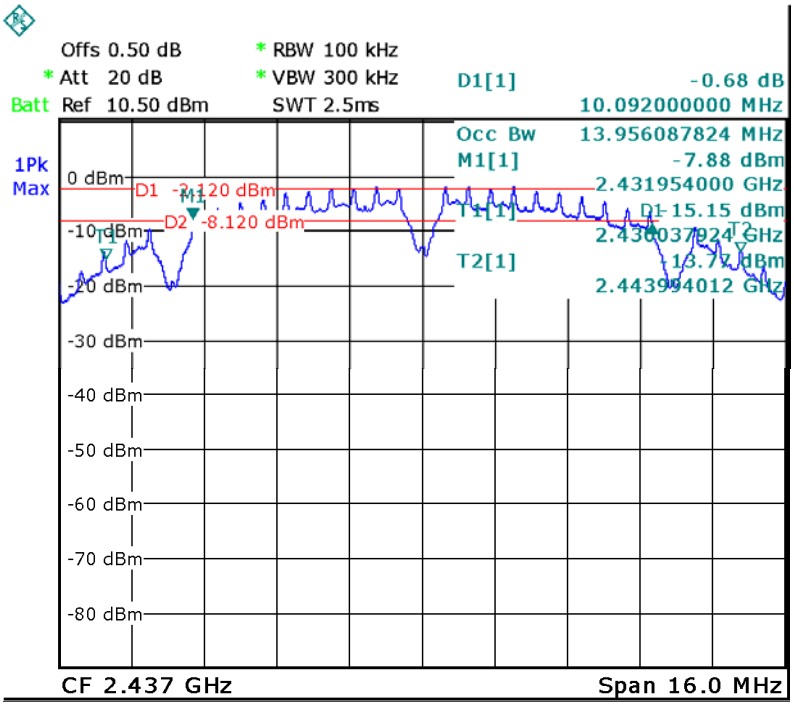
Operation mode	Bandwidth (MHz)		
TX 11b	Channel 1	Channel 6	Channel 11
	10.092	10.092	10.092
TX 11g	Channel 1	Channel 6	Channel 11
	16.467	16.467	16.467
TX 11n HT20	Channel 1	Channel 6	Channel 11
	17.623	17.623	17.623
TX 11n HT40	Channel 3	Channel 6	Channel 9
	36.340	36.340	36.340
BLE	Channel 0	Channel 19	Channel 39
	0.707	0.707	0.707

Test result plot as follows:

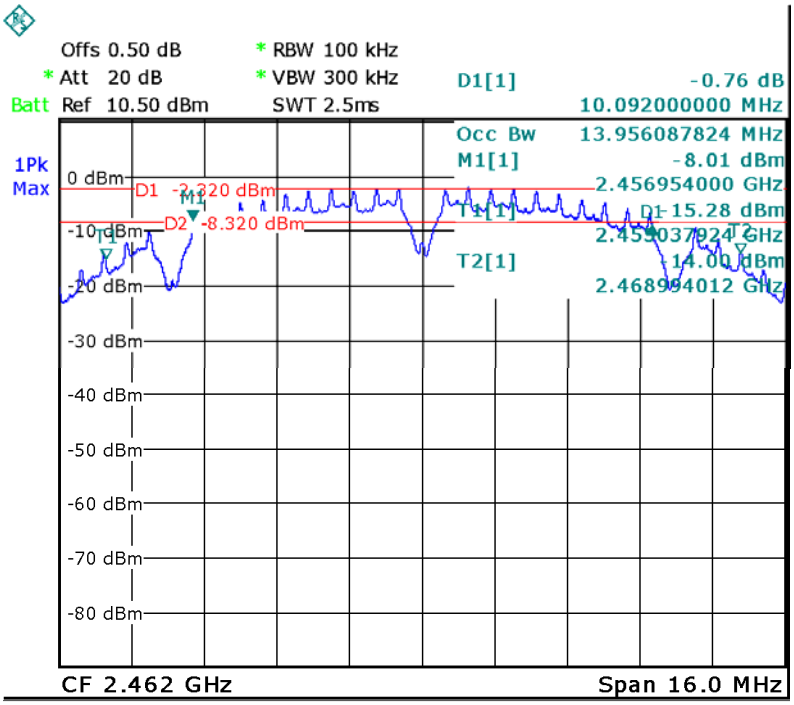
Mode: TX 11b channel 1



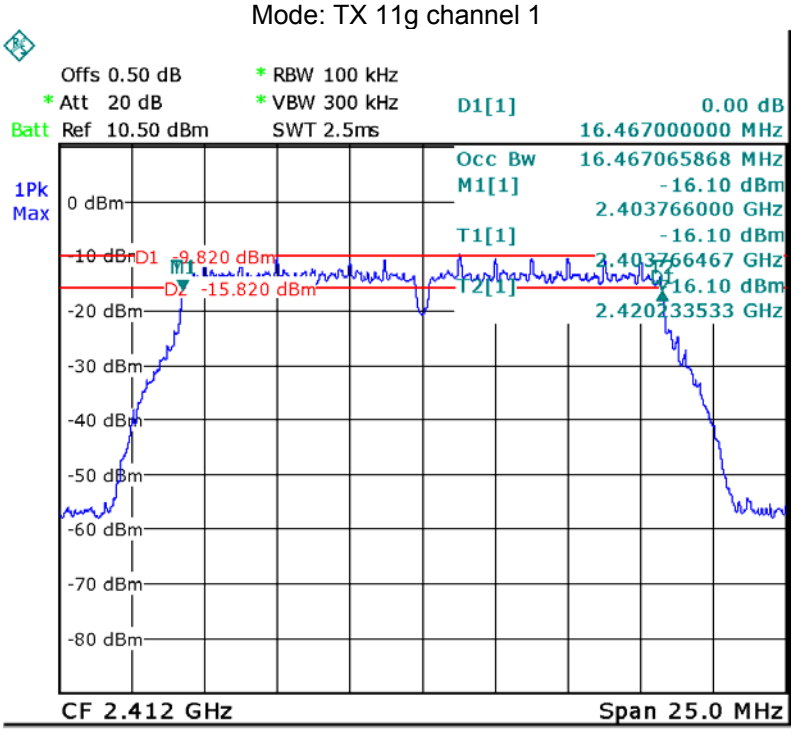
Mode: TX 11b channel 6



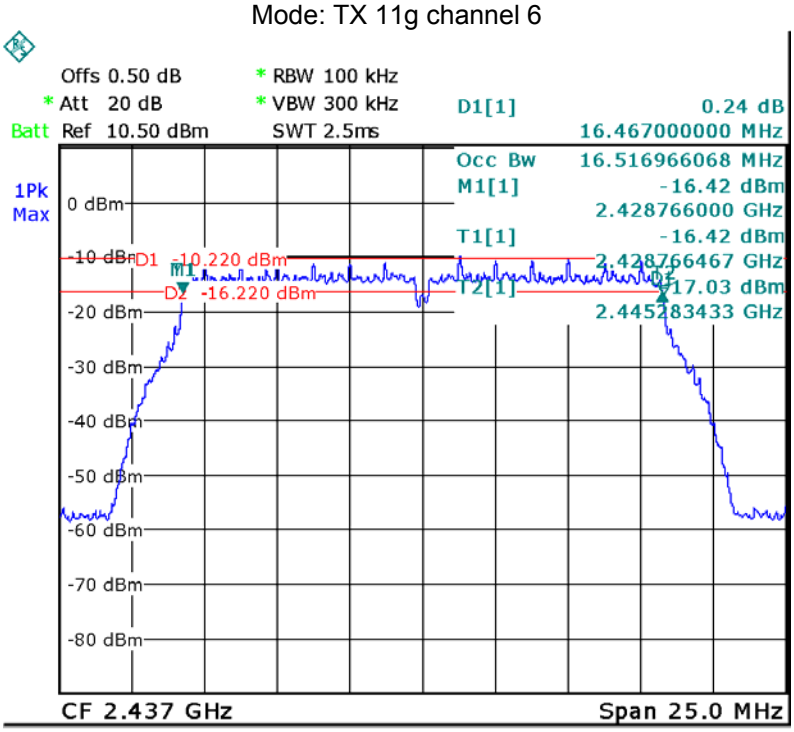
Mode: TX 11b channel 11



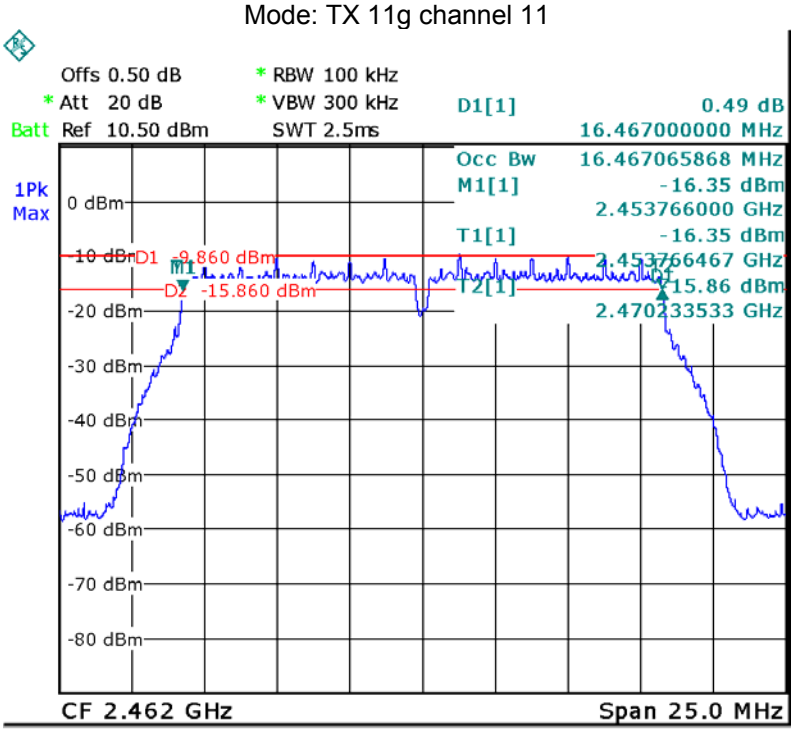
Mode: TX 11g channel 1



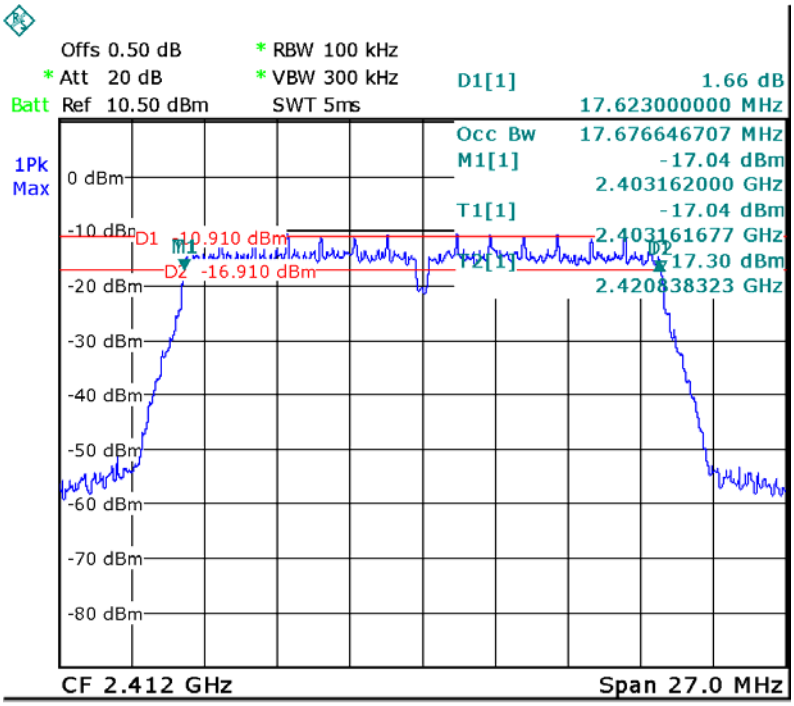
Mode: TX 11g channel 6



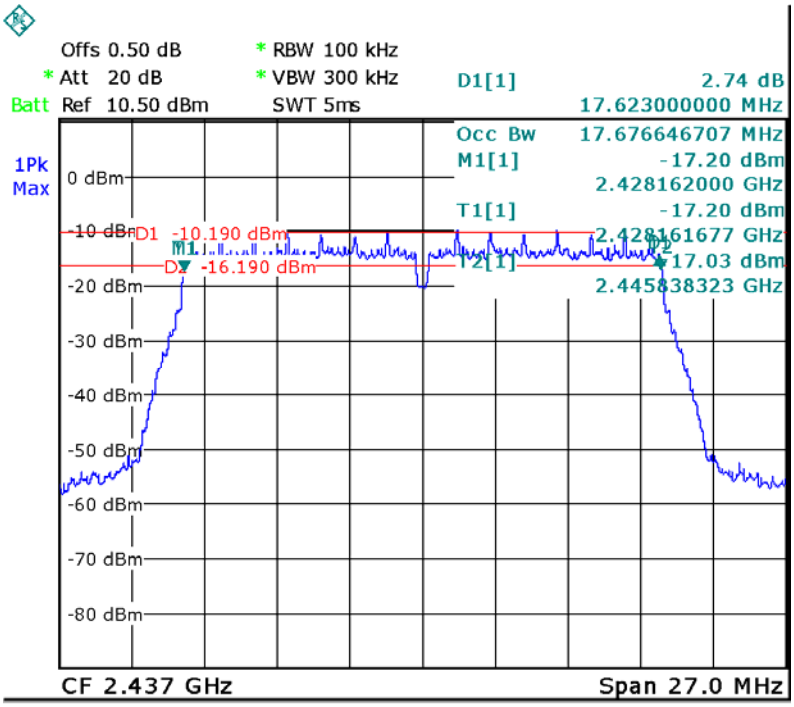
Mode: TX 11g channel 11



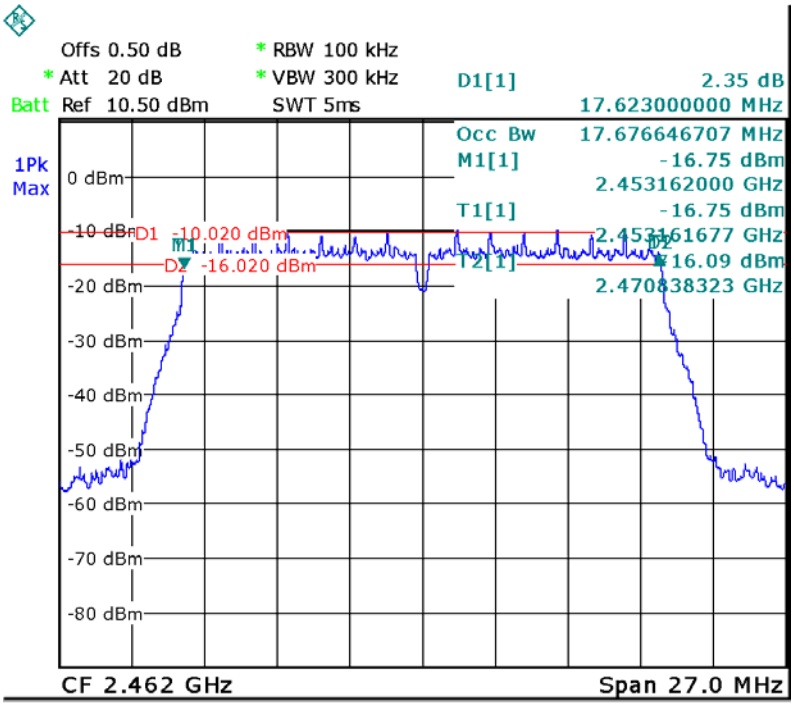
Mode: TX 11n HT20 channel 1



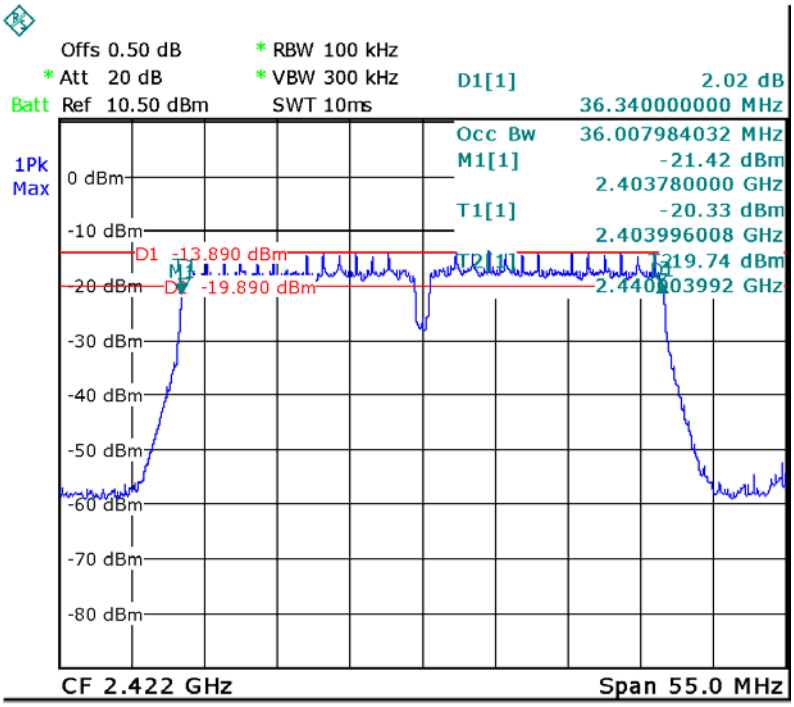
Mode: TX 11n HT20 channel 6



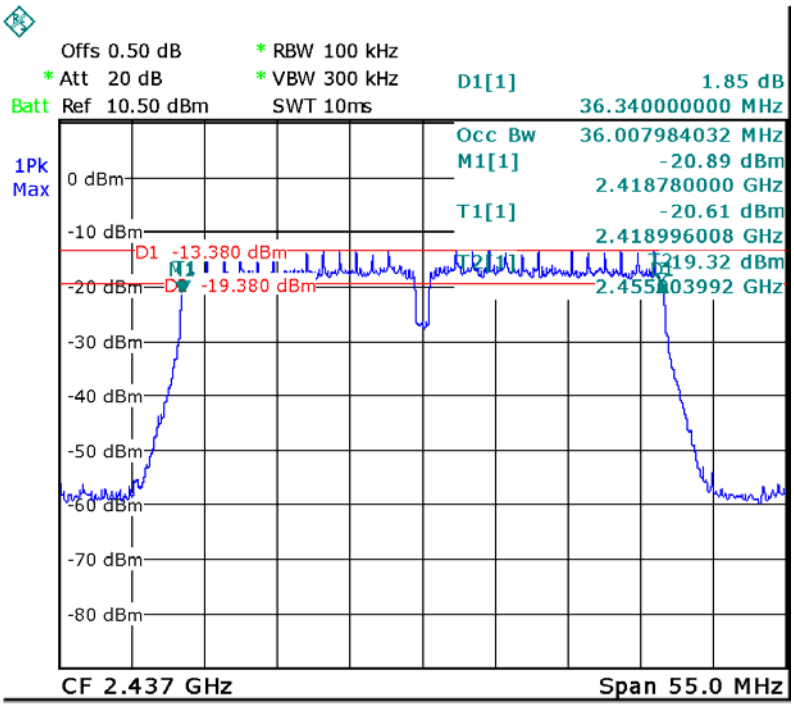
Mode: TX 11n HT20 channel 11



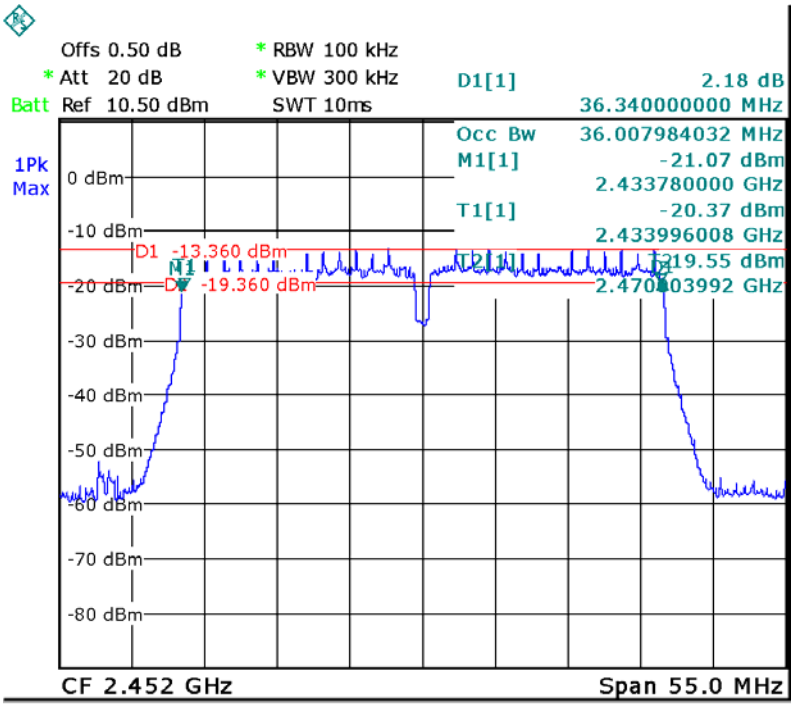
Mode: TX 11n HT40 channel 3



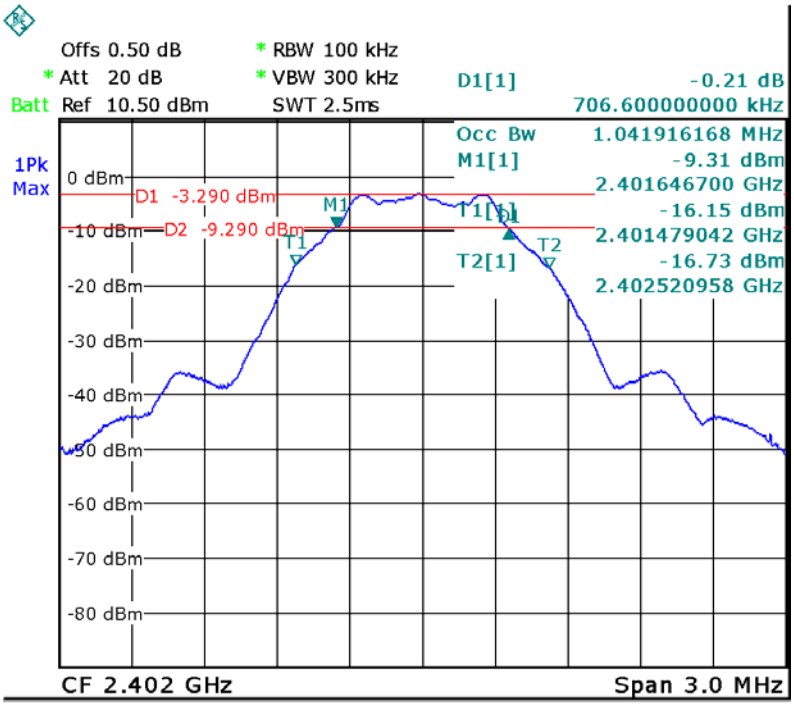
Mode: TX 11n HT40 channel 6



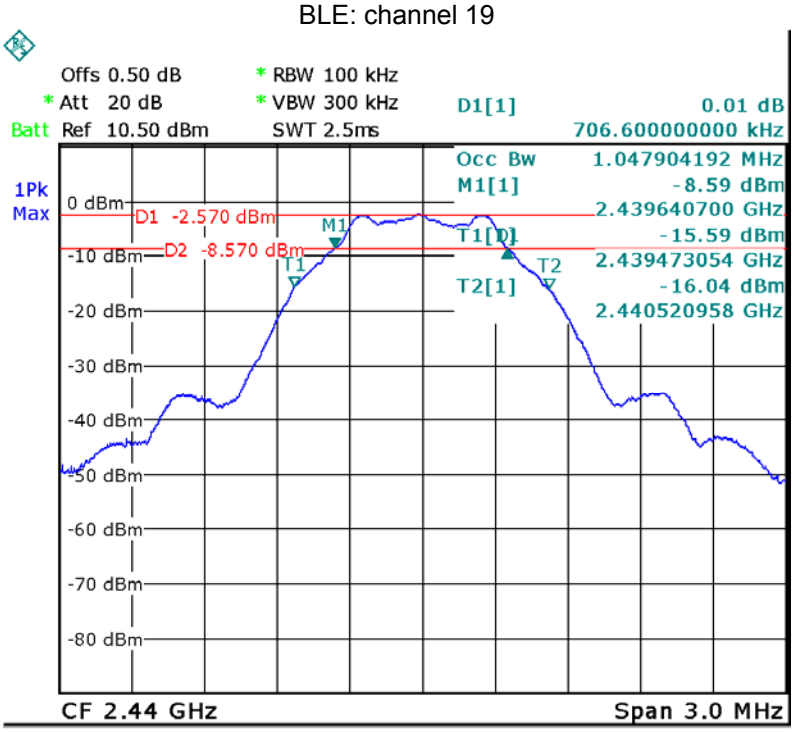
Mode: TX 11n HT40 channel 9



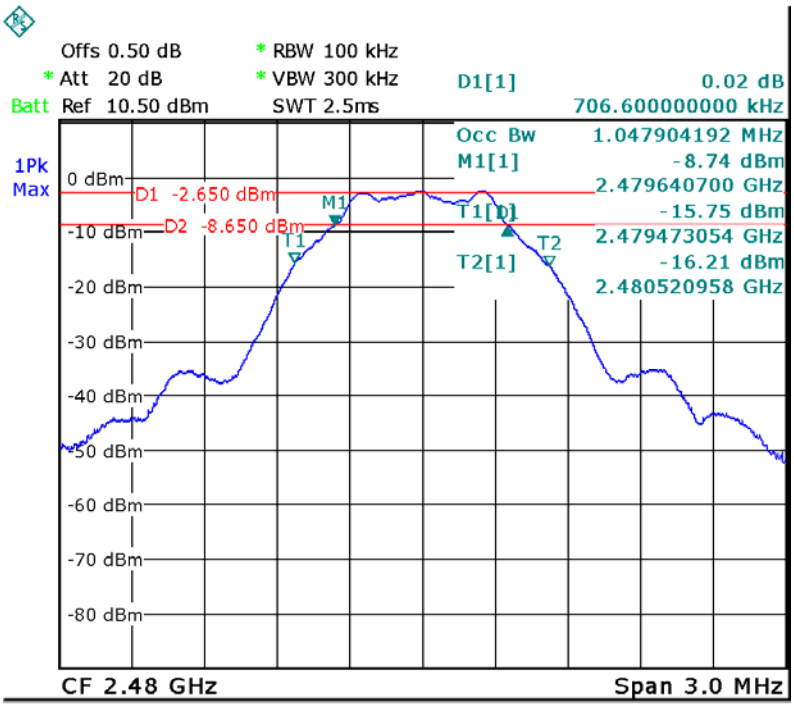
BLE: channel 0



BLE: channel 19



BLE: channel 39



12 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016

12.1 Test Procedure:

KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016

section 9.1.1 (For BLE)

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

a)Set the RBW ≥ DTS bandwidth.

b)Set VBW ≥ 3 RBW.

c)Set span ≥ 3 x RBW

d)Sweep time = auto couple.

e)Detector = peak.

f)Trace mode = max hold.

g)Allow trace to fully stabilize.

h)Use peak marker function to determine the peak amplitude level.

section 9.1.2 (For WIFI)

This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

a)Set the RBW = 1 MHz.

b)Set the VBW ≥ 3 RBW

c)Set the span ≥ 1.5 x DTS bandwidth.

d)Detector = peak.

e)Sweep time = auto couple.

f)Trace mode = max hold.

g)Allow trace to fully stabilize.

h)Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

12.2 Test Result:

Test mode :TX 11b		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.30	9.47	9.29
Limit: 1W/30dBm		

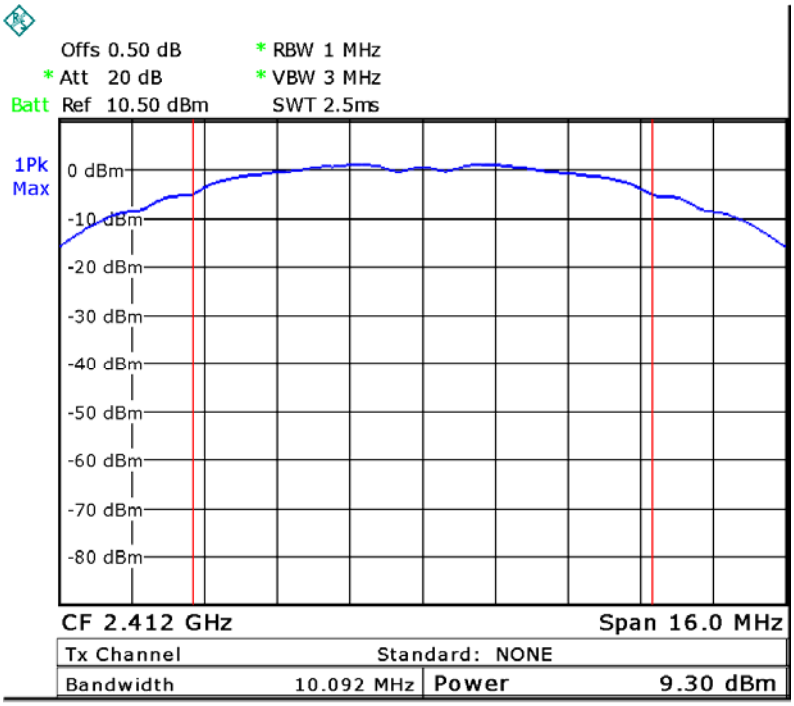
Test mode :TX 11g		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.34	9.36	9.32
Limit: 1W/30dBm		

Test mode :TX 11n HT20		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.06	9.46	9.46
Limit: 1W/30dBm		

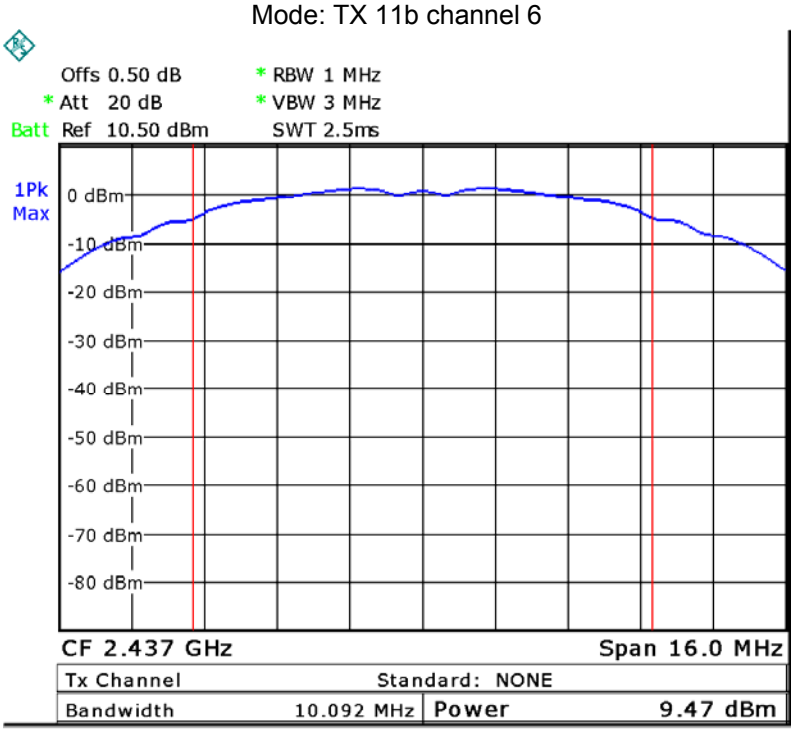
Test mode :TX 11n HT40		
Maximum Peak Output Power (dBm)		
2422MHz	2437MHz	2452MHz
9.07	9.27	9.42
Limit: 1W/30dBm		

BLE		
Maximum Peak Output Power (dBm)		
2402MHz	2440MHz	2480MHz
-2.48	-1.74	-1.85
Limit: 1W/30dBm		

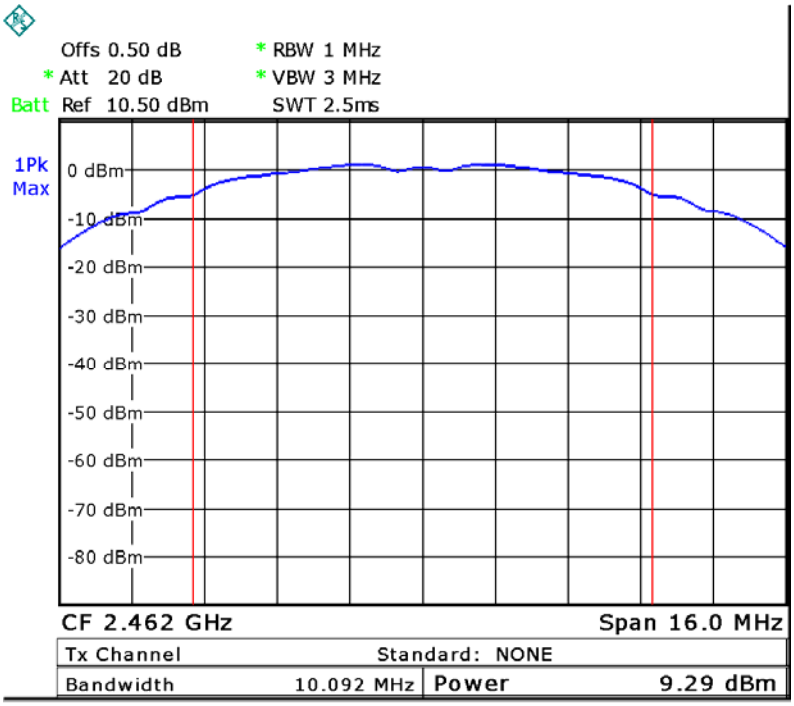
Mode: TX 11b channel 1



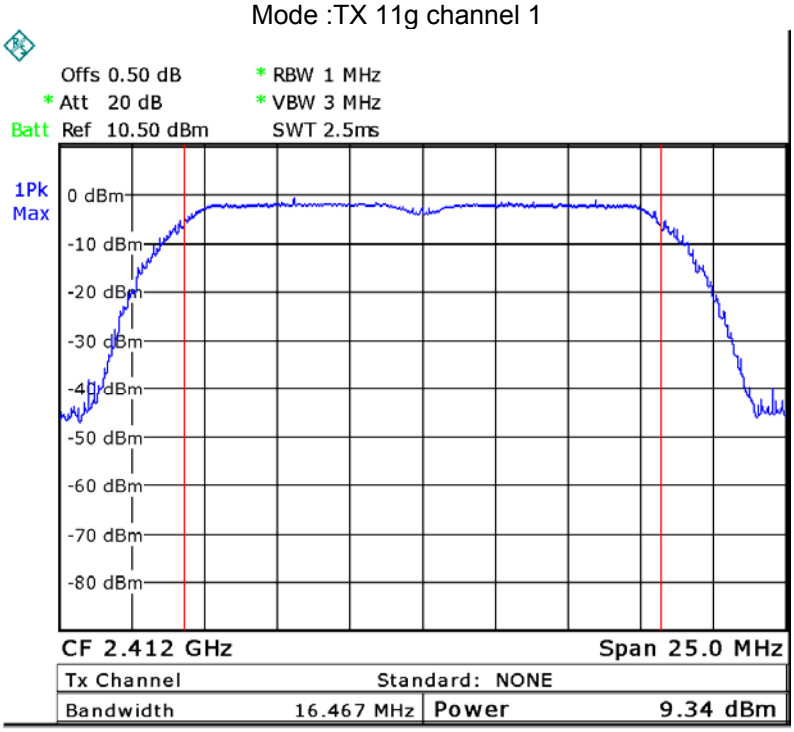
Mode: TX 11b channel 6



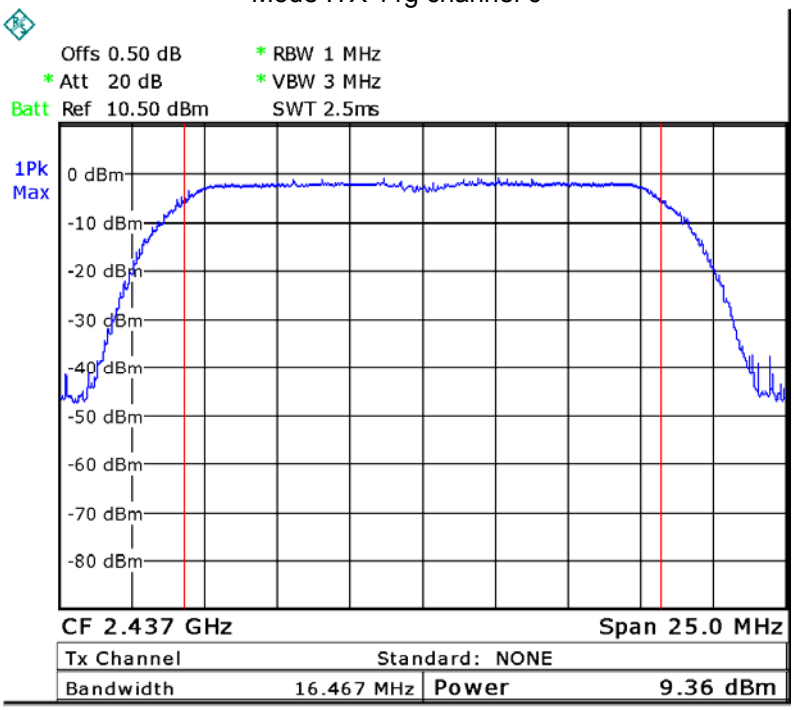
Mode: TX 11b channel 11



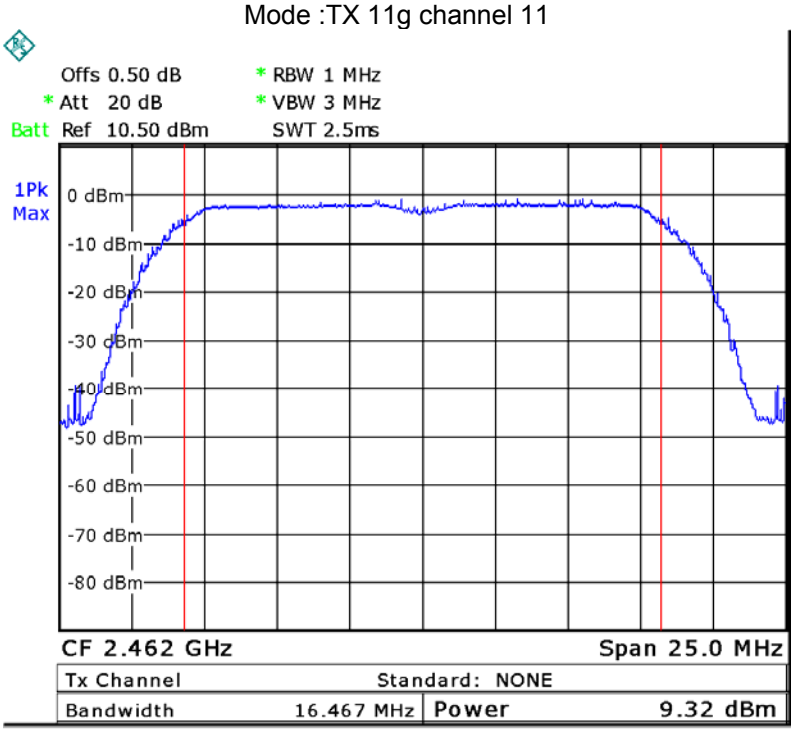
Mode :TX 11g channel 1



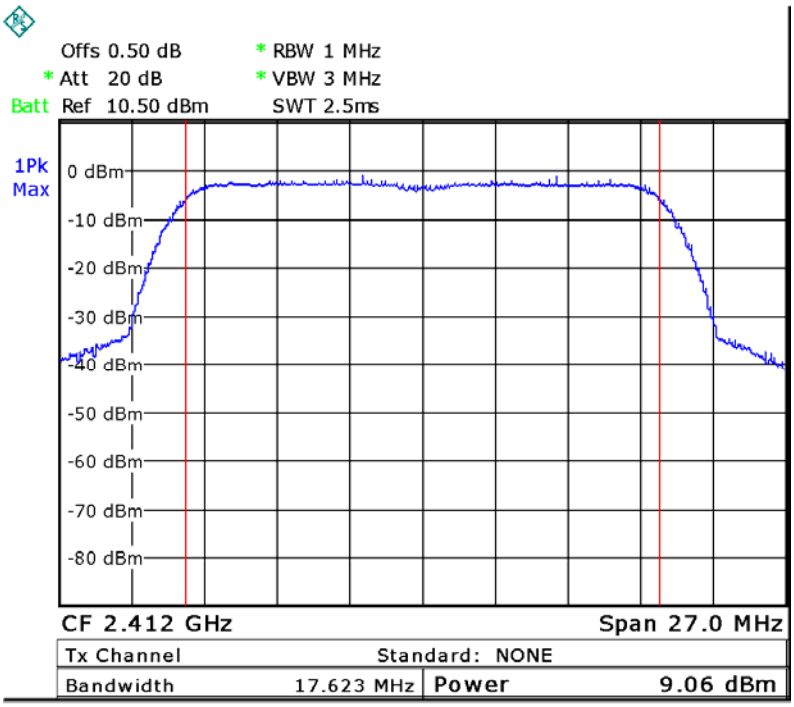
Mode :TX 11g channel 6



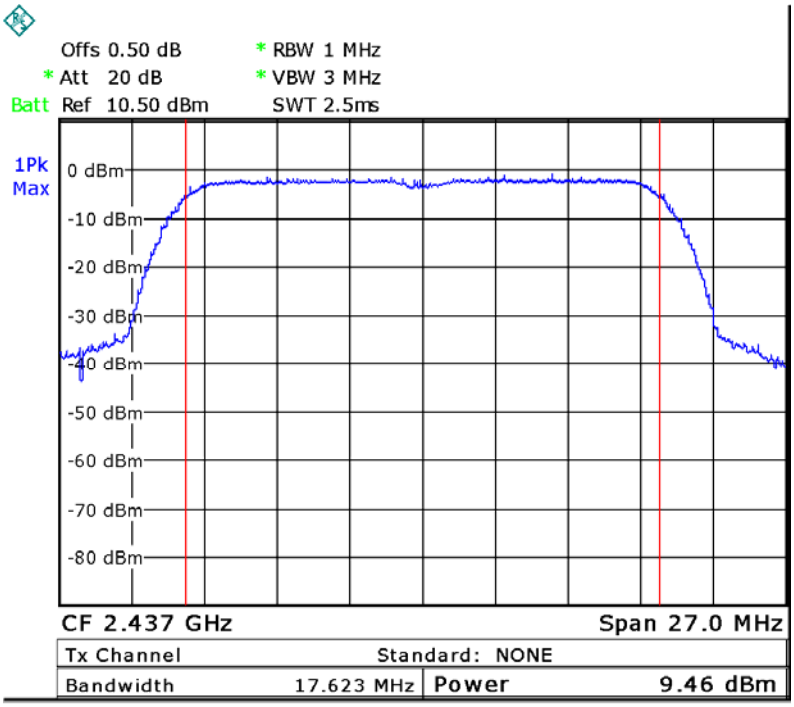
Mode :TX 11g channel 11



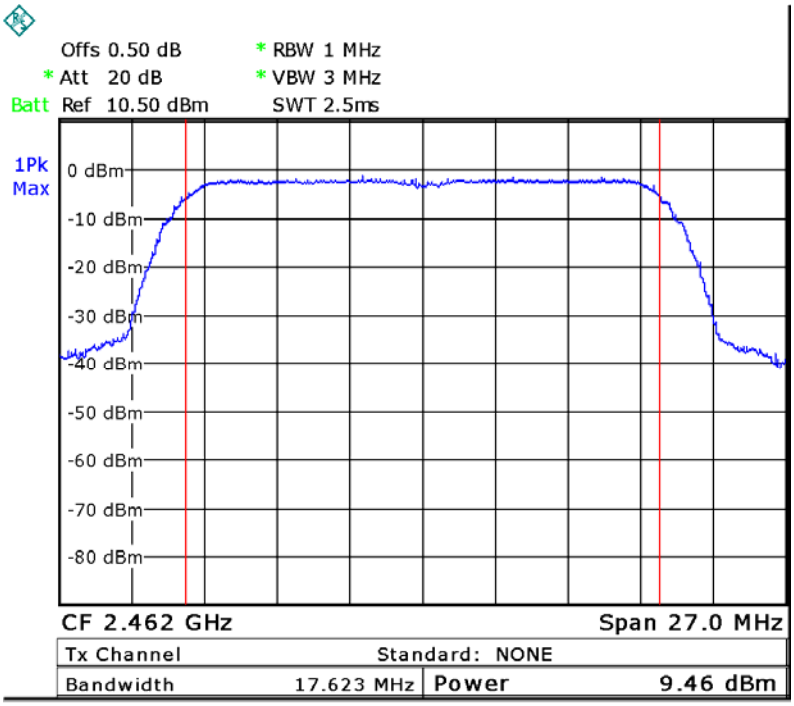
Mode: TX 11n HT20 channel 1



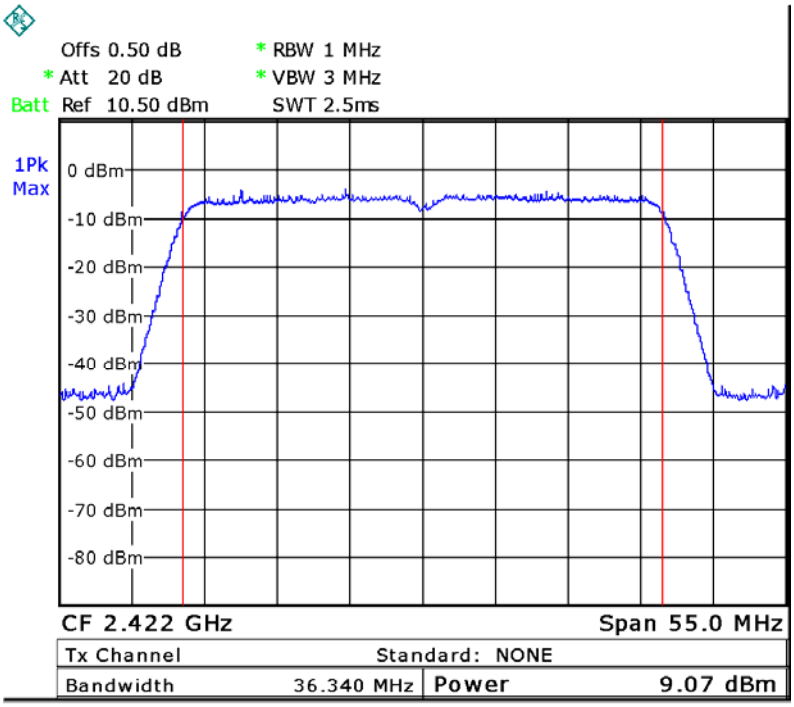
Mode: TX 11n HT20 channel 6



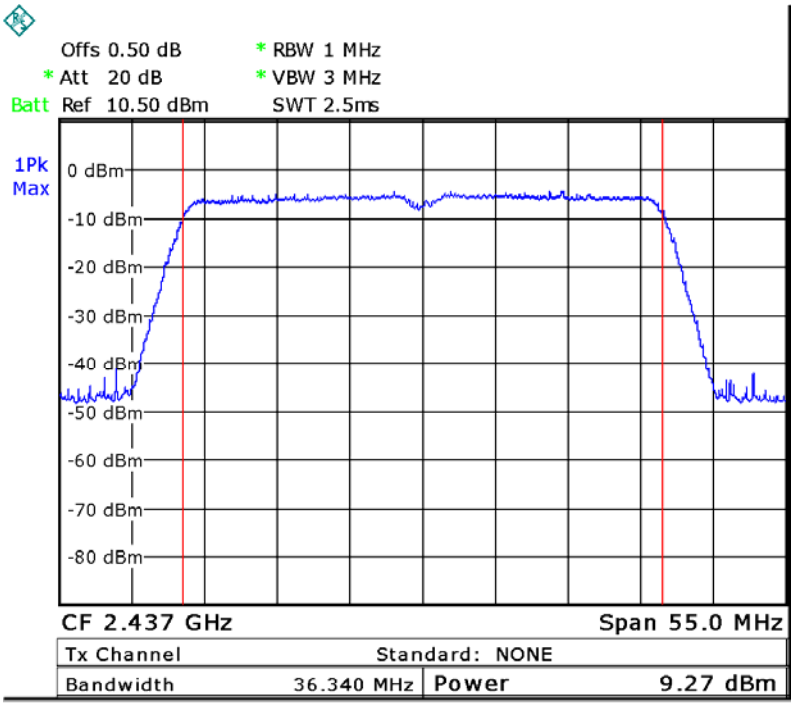
Mode: TX 11n HT20 channel 11



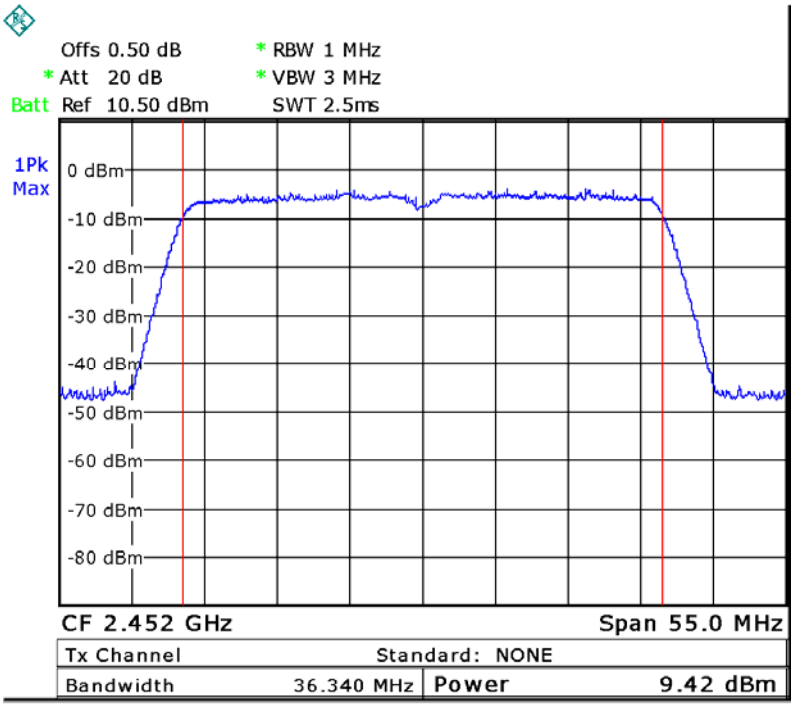
Mode: TX 11n HT40 channel 1



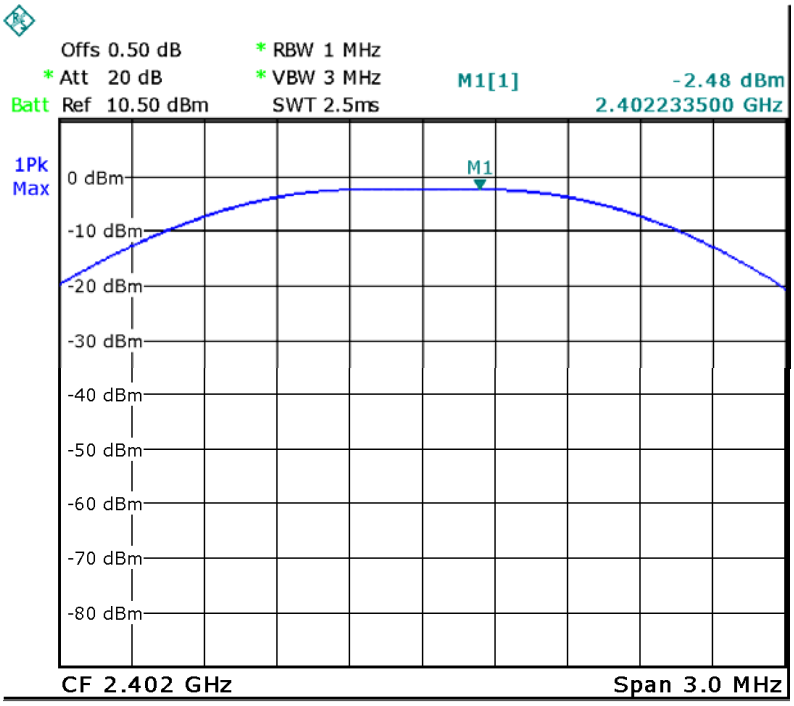
Mode: TX 11n HT40 channel 6



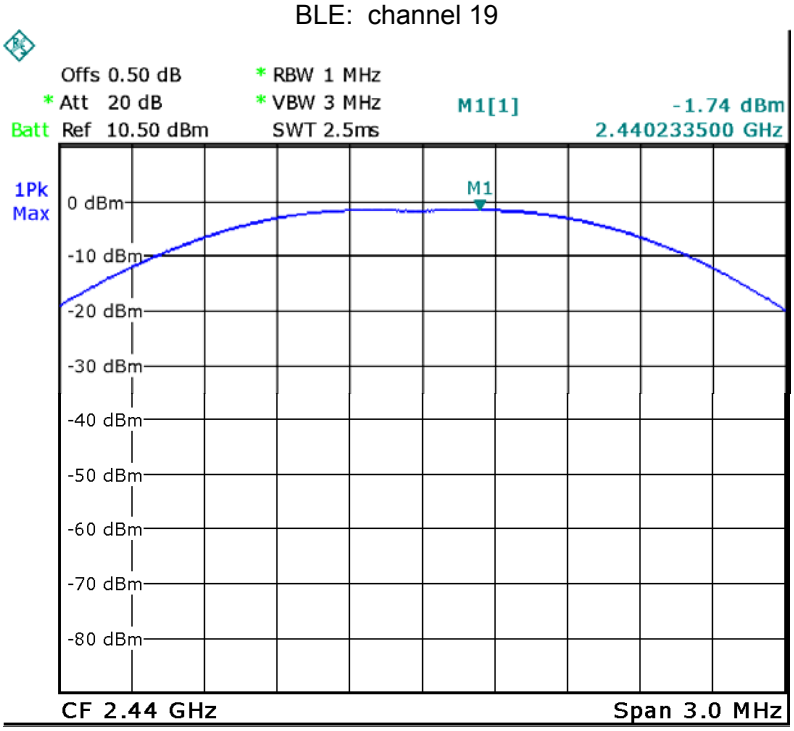
Mode: TX 11n HT40 channel 11



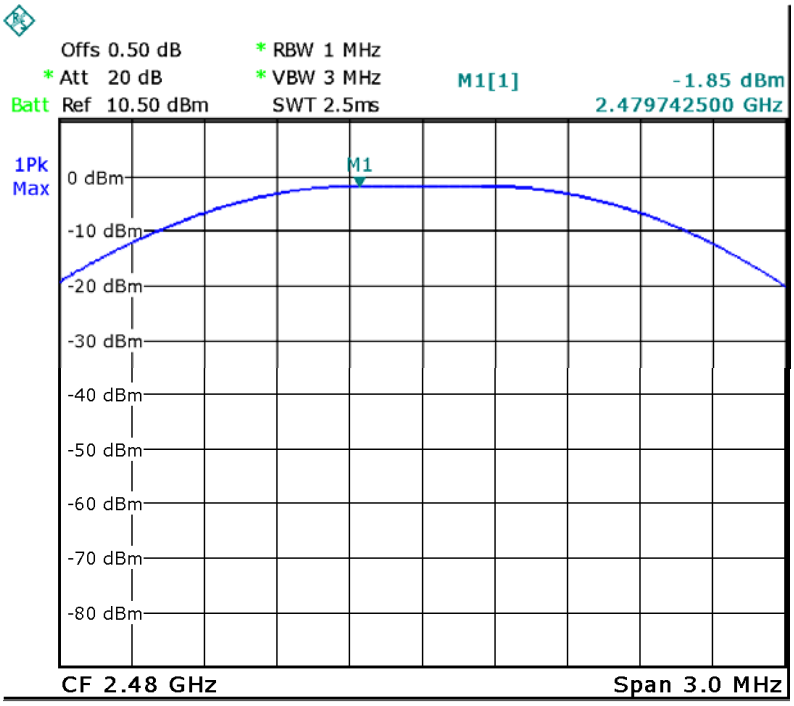
BLE: channel 0



BLE: channel 19



BLE: channel 39



13 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016

13.1 Test Procedure:

KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016 section 10.2

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

13.2 Test Result:

Test mode :TX 11b		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-16.32	-16.15	-17.03
Limit: 8dBm per 3kHz		

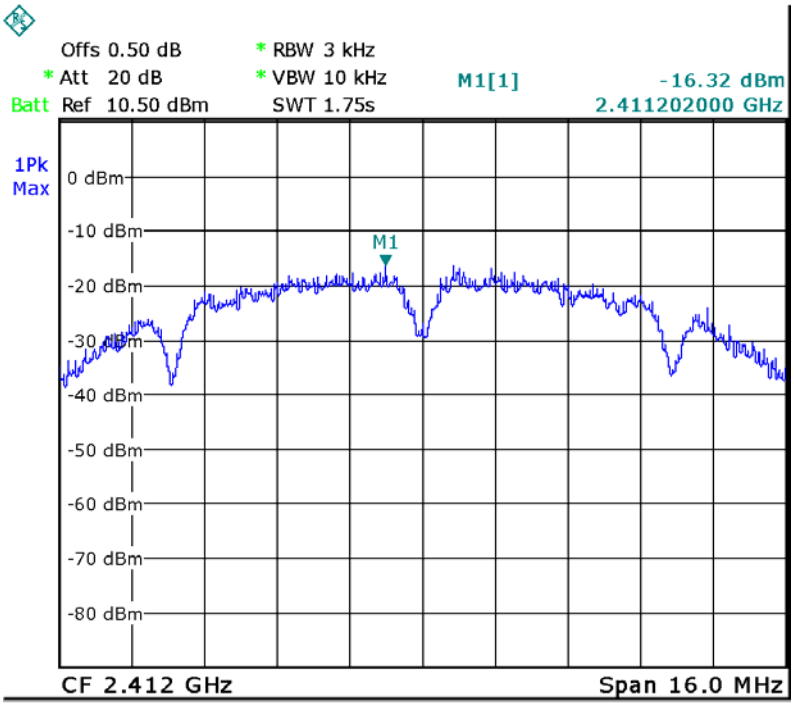
Test mode :TX 11g		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-24.38	-24.80	-24.35
Limit: 8dBm per 3kHz		

Test mode :TX 11n HT20		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-24.67	-24.57	-24.34
Limit: 8dBm per 3kHz		

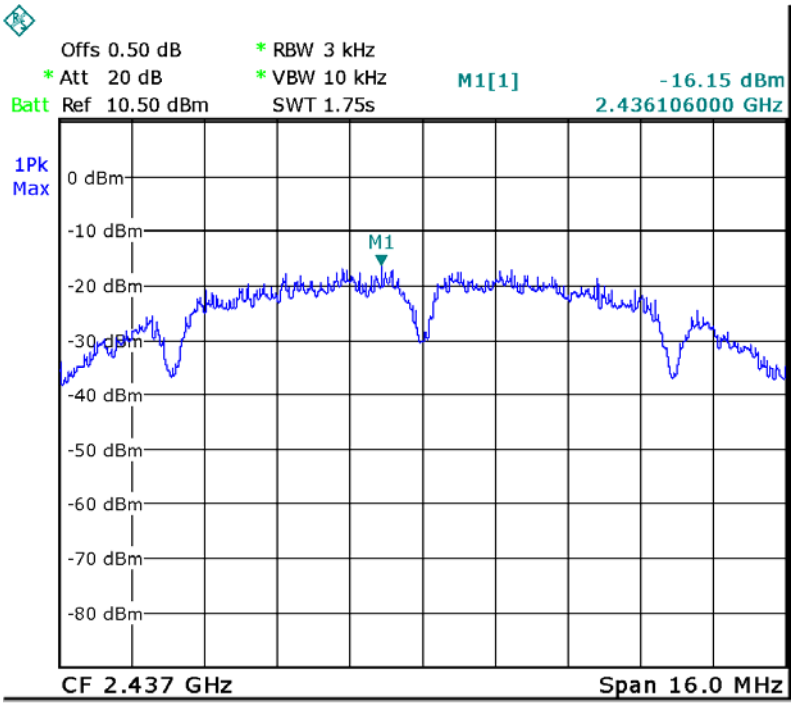
Test mode :TX 11n HT40		
Power Spectral (dBm per 3kHz)		
2422MHz	2437MHz	2452MHz
-28.30	-28.16	-27.33
Limit: 8dBm per 3kHz		

BLE		
Power Spectral (dBm per 3kHz)		
2402MHz	2440MHz	2480MHz
-18.38	-17.60	-17.55
Limit: 8dBm per 3kHz		

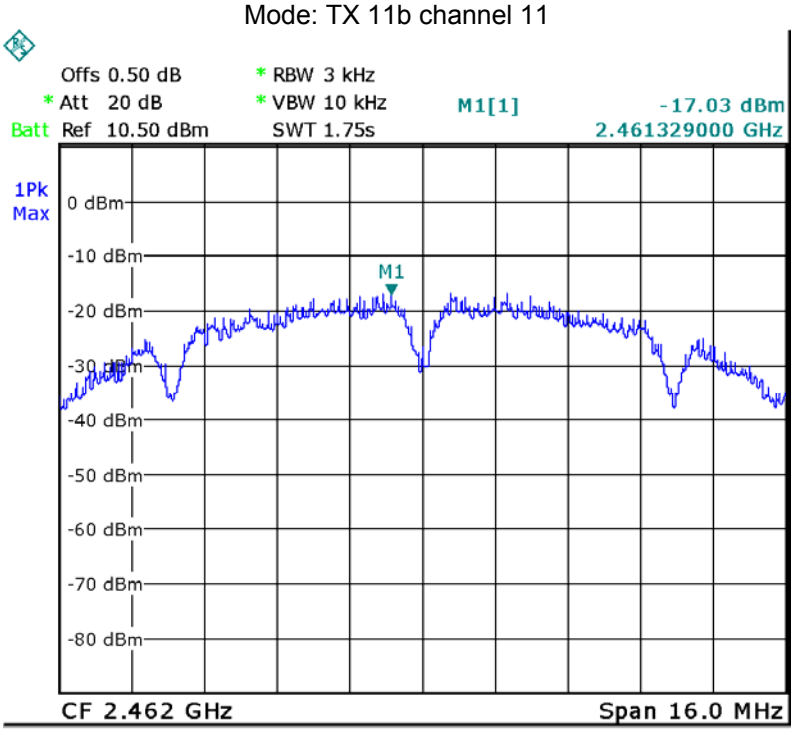
Mode: TX 11b channel 1



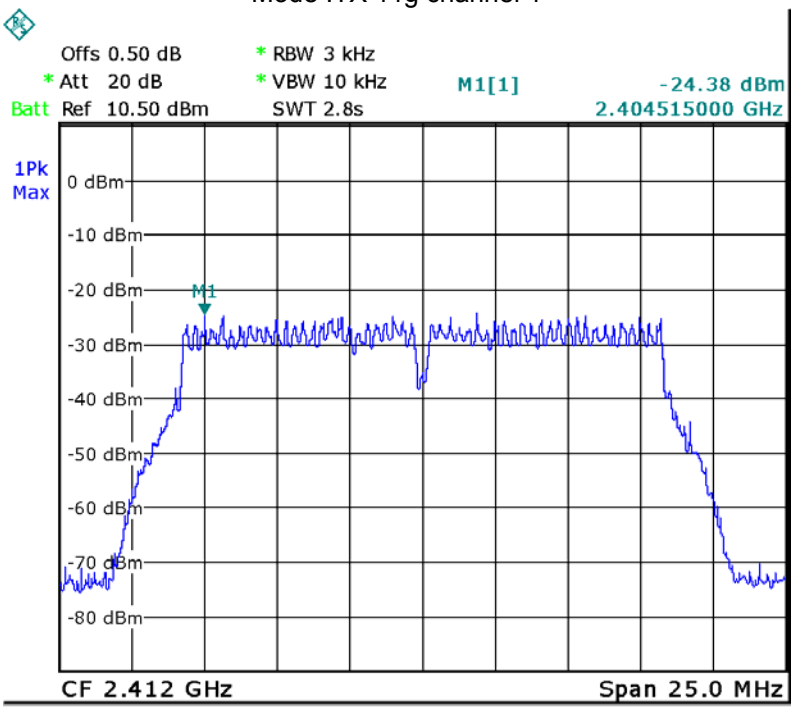
Mode: TX 11b channel 6



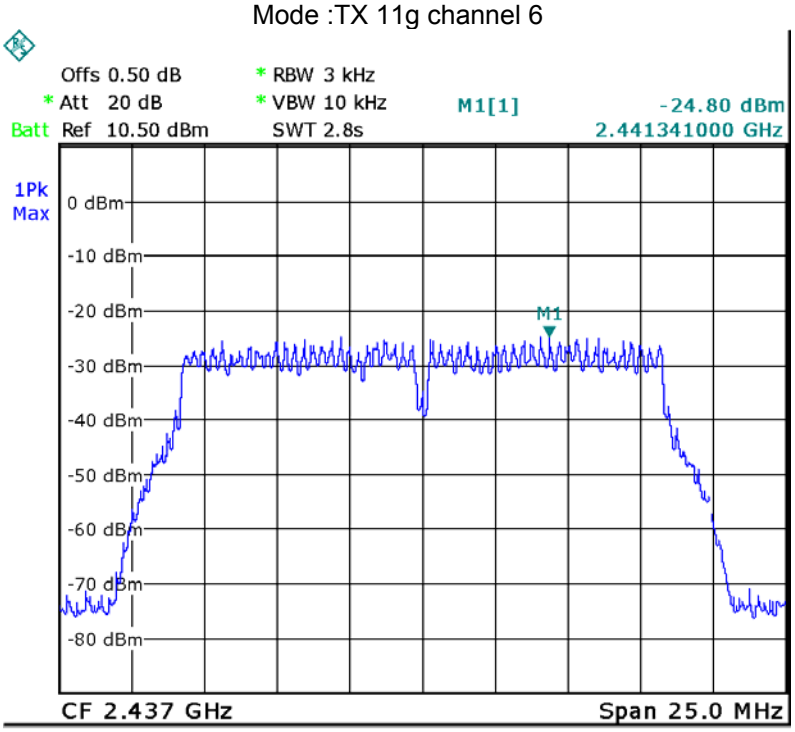
Mode: TX 11b channel 11



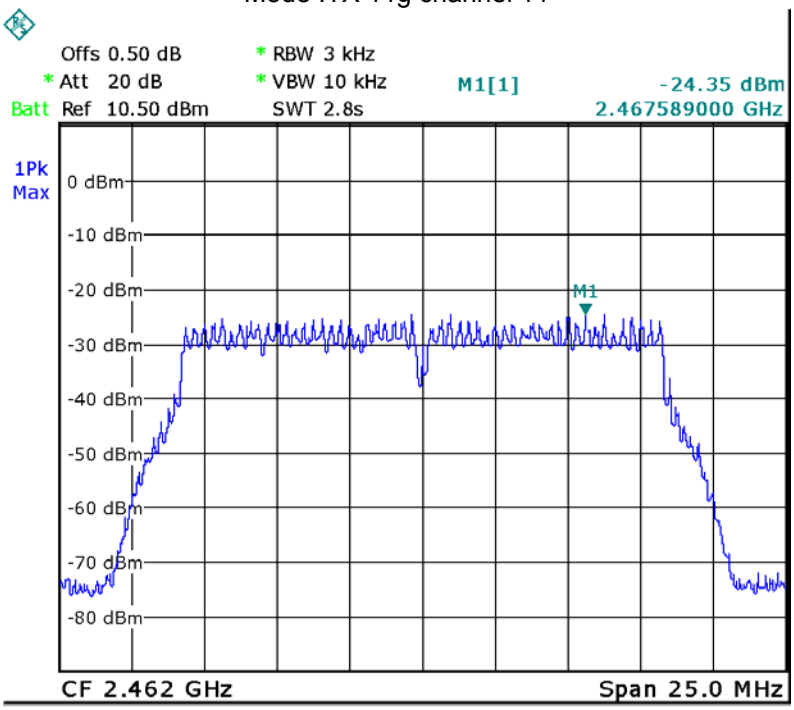
Mode :TX 11g channel 1



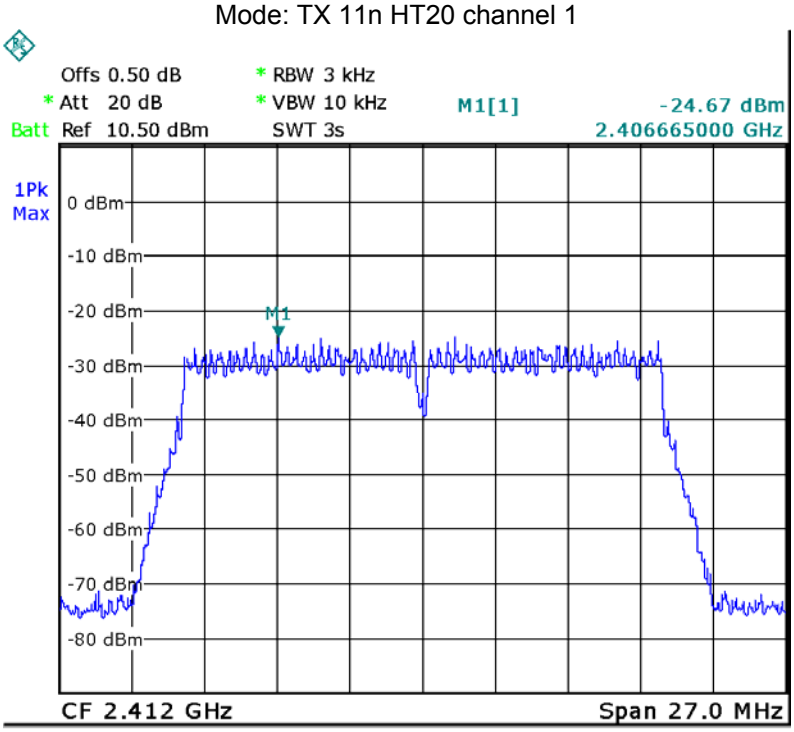
Mode :TX 11g channel 6



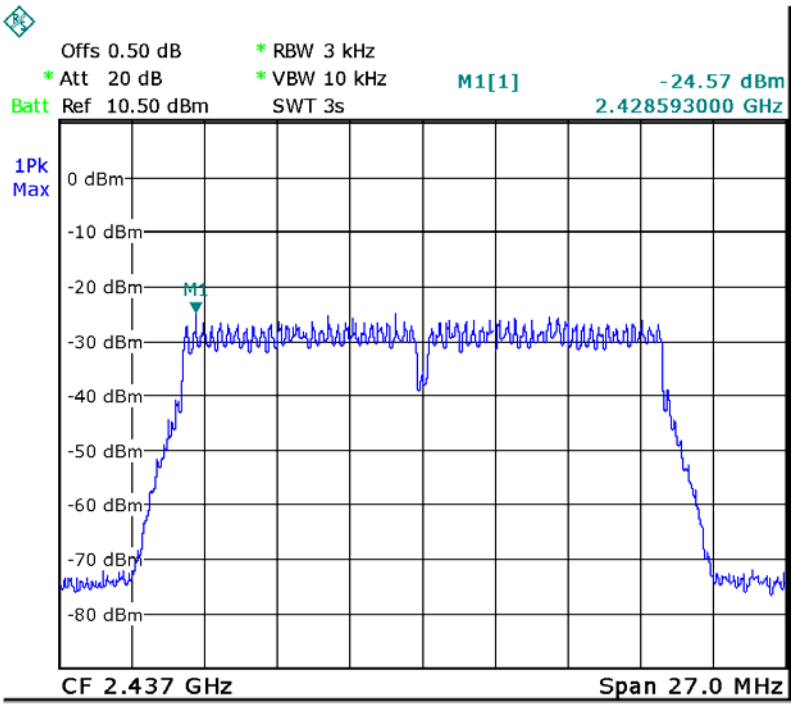
Mode :TX 11g channel 11



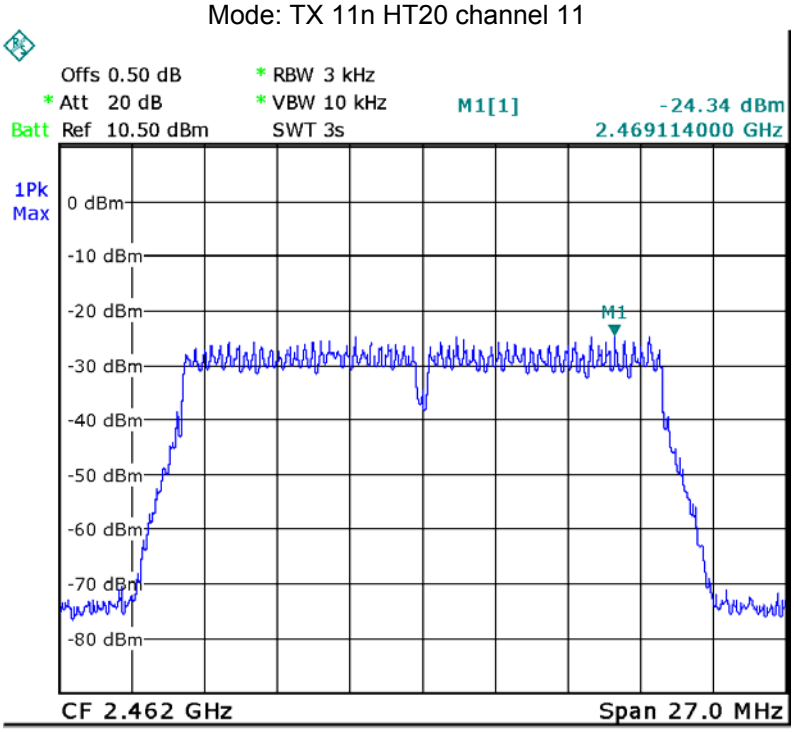
Mode: TX 11n HT20 channel 1



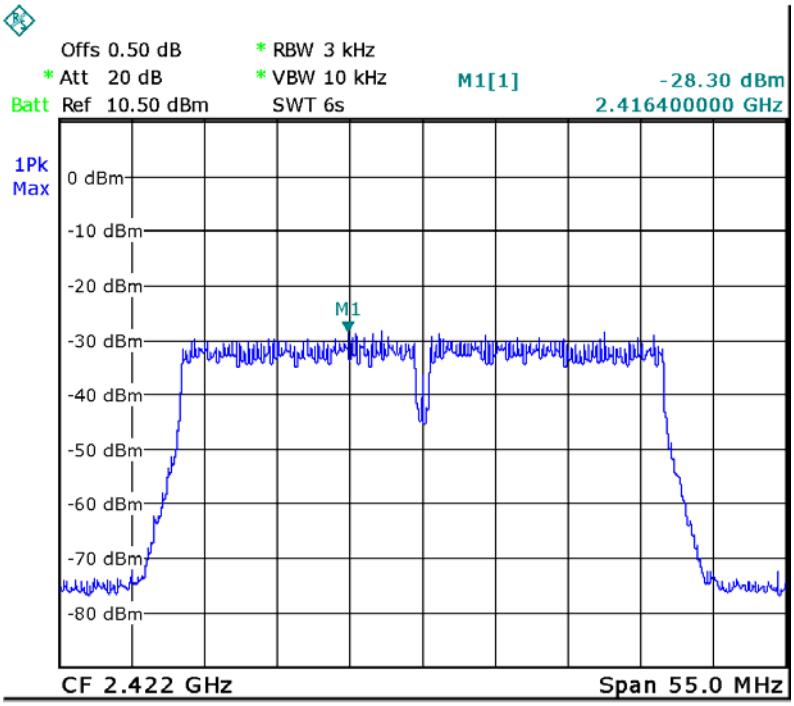
Mode: TX 11n HT20 channel 6



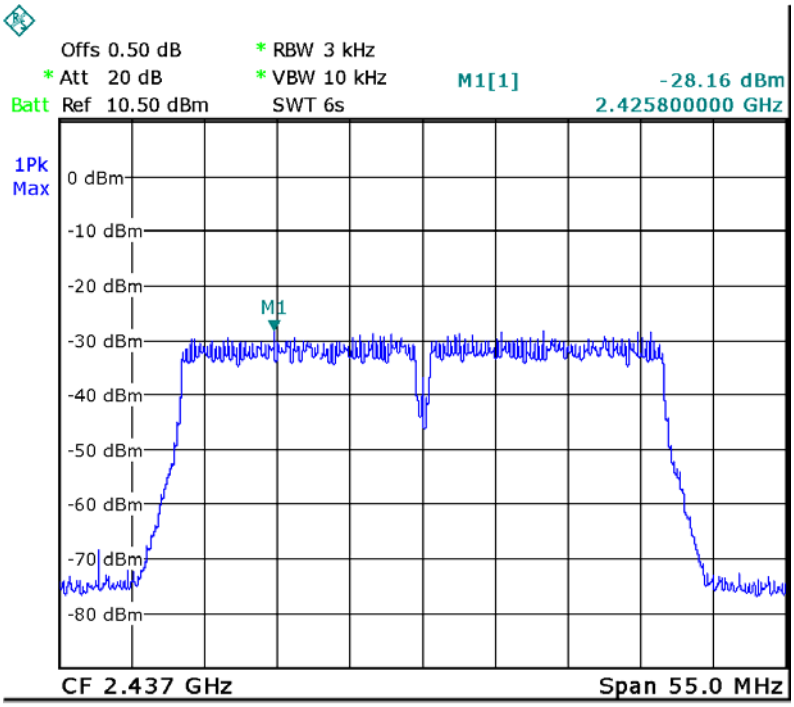
Mode: TX 11n HT20 channel 11



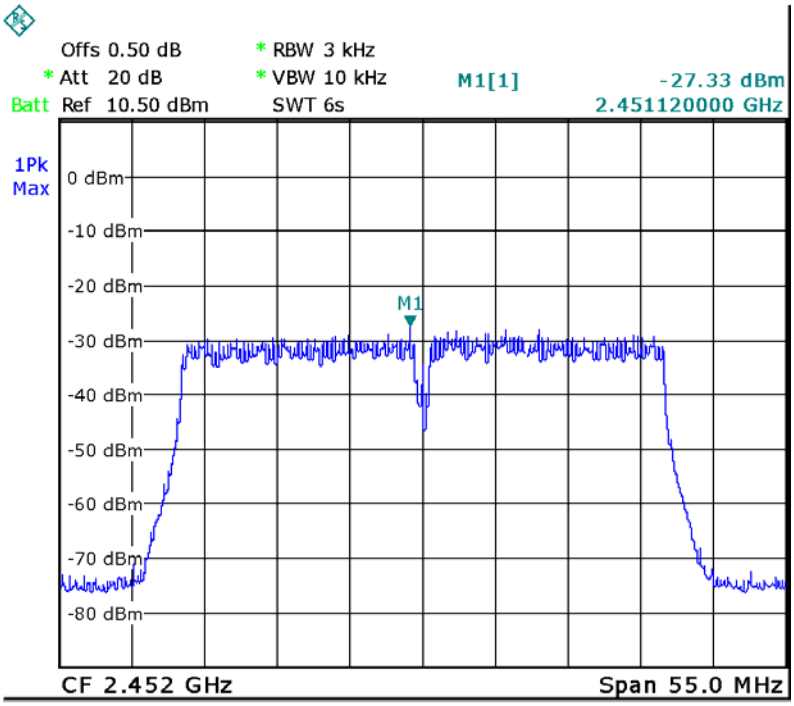
Mode: TX 11n HT40 channel 3



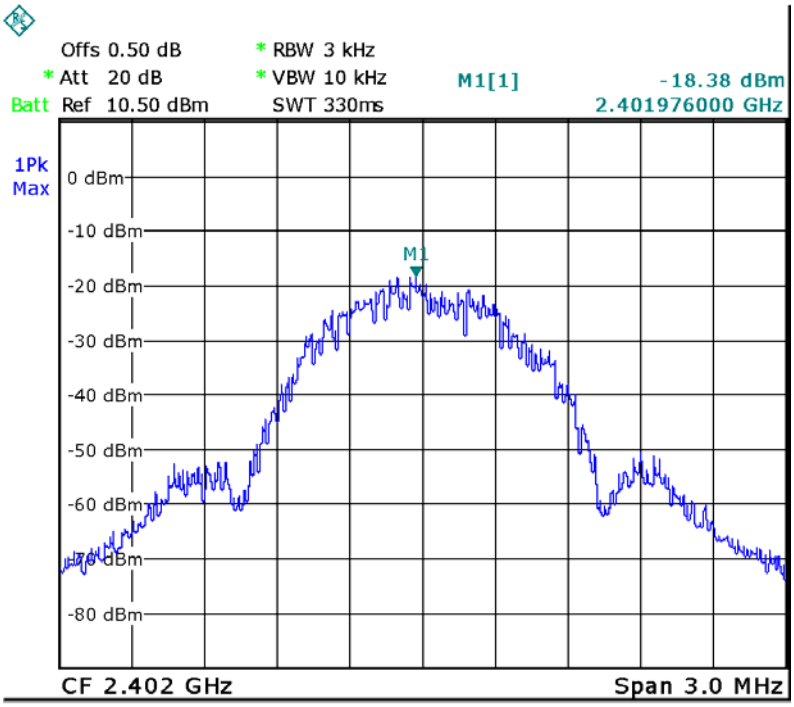
Mode: TX 11n HT40 channel 6



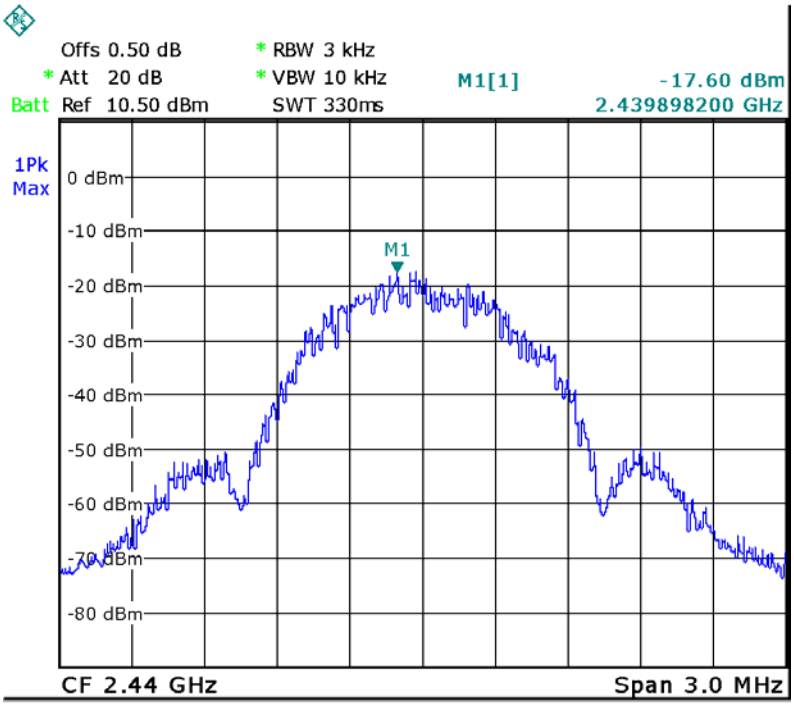
Mode: TX 11n HT40 channel 9



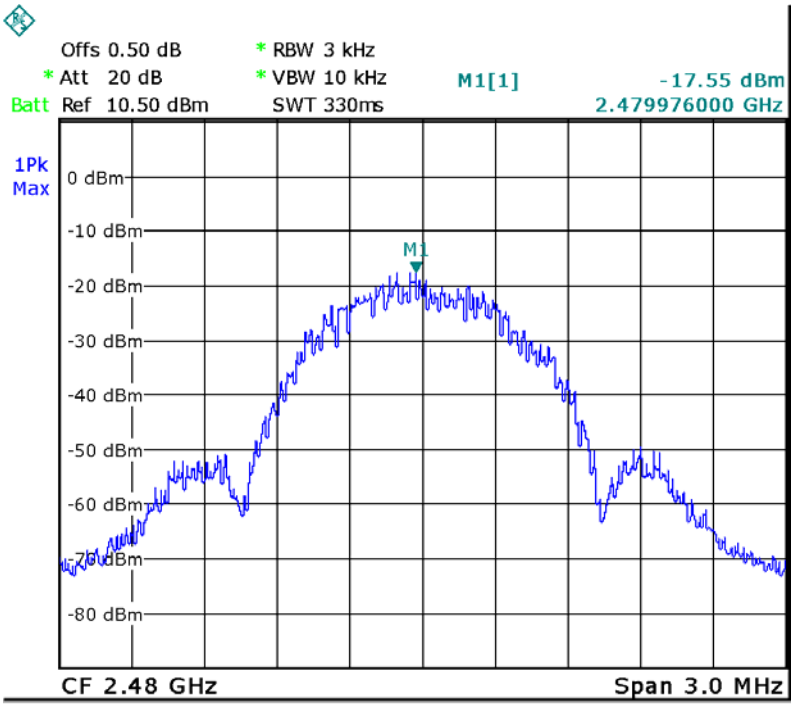
BLE: channel 0



BLE: channel 19



BLE: channel 39



14 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, 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. This product has an integrated antenna fulfill the requirement of this section.

15 RF Exposure

Remark: refer to SAR test report: WTS16S0960999E

======End of Report======