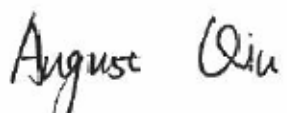
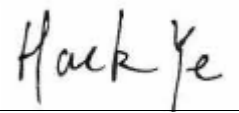


FCC TEST REPORT

FCC ID: 2AHRVF7

Product	:	Smart Media Player
Model Name	:	F7,F7I
Brand	:	N/A
Report No.	:	PT800491160309E-FC02
Prepared for		
Shenzhen Chiptrip technology Co., Ltd.		
8F,VIA BUILDING,NO.9966,SHENNAN BOULEVARD,NANSHAN DISTRICT,		
SHENZHEN, GUANGDONG, CHINA.		
Prepared by		
DongGuan Precise Testing Service Co.,Ltd.		
Building D, Baoding Technology Park, Guangming Road 2, Guangming Community		
Dongcheng District, Dongguan, Guangdong, China		

TEST RESULT CERTIFICATION		
Applicant's name	:	Shenzhen Chiptrip technology Co., Ltd.
Address	:	8F, VIA BUILDING, NO.9966, SHENNAN BOULEVARD, NANSHAN DISTRICT, SHENZHEN, GUANGDONG, CHINA.
Manufacture's name	:	Shenzhen Chiptrip technology Co., Ltd.
Address	:	8F, VIA BUILDING, NO.9966, SHENNAN BOULEVARD, NANSHAN DISTRICT, SHENZHEN, GUANGDONG, CHINA.
Product name	:	Smart Media Player
Model name	:	F7,F7I
Standards	:	FCC CFR47 Part 15 Section 15.247
Test procedure	:	ANSI C63.10:2013, KDB 558074 D01 DTS MEAS GUIDANCE V03R05
Test Date	:	Apr. 03, 2016 ~ Apr.14, 2016
Date of Issue	:	Apr.15, 2016
Test Result	:	Pass
This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of PTS, this document may be altered or revised by PTS, personal only, and shall be noted in the revision of the document.		

Testing Engineer	
August Qiu	
Technical Manager	
Hack Ye	
Authorized Signatory	
Chris Du	

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2 Test Summary

Test Items	Test Requirement	Result
Conduct Emission	15.207	PASS
Radiated Spurious Emissions	15.205(a) 15.209 15.247(d)	PASS
Band edge	15.247(d) 15.205(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(1)	PASS
Power Spectral Density	15.247(e)	PASS
Antenna Requirement	15.203	PASS

Remark:

N/A: Not Applicable

3 General Information

3.1 General Description of E.U.T.

Product Name	:	Smart Media Player
Model Name	:	F7,F7I
Model Description	:	Just the model names are difference
Bluetooth Version	:	V4.0
Operating frequency	:	For BT(Normal) 2402-2480MHz, 79 channels For BLE: 2402-2480MHz, 40 channels For WIFI 802.11b/g/n-HT20:2412-2462MHz, 11 channels 802.11n-HT40: 2422-2452MHz:7 channels
Antenna installation:	:	Monopole Antenna
Antenna Gain:	:	1.25 dBi
Type of Modulation	:	For BT(Normal) GFSK, Pi/4DQPSK, 8DPSK For BLE: GFSK For WIFI: IEEE 802.11b CCK/QPSK/BPSK IEEE 802.11g BPSK/QPSK/16QAM/64QAM IEEE 802.11n-HT20/HT40 BPSK/QPSK/16QAM/64QAM
Power supply	:	DC 5V power by adapter
Adapter	:	Input:100-240V ~50/60Hz 0.5A max Output: DC 5V 2.0A



3.2 Channel List

WIFI							
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/
BLE							
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

3.3 Test Mode

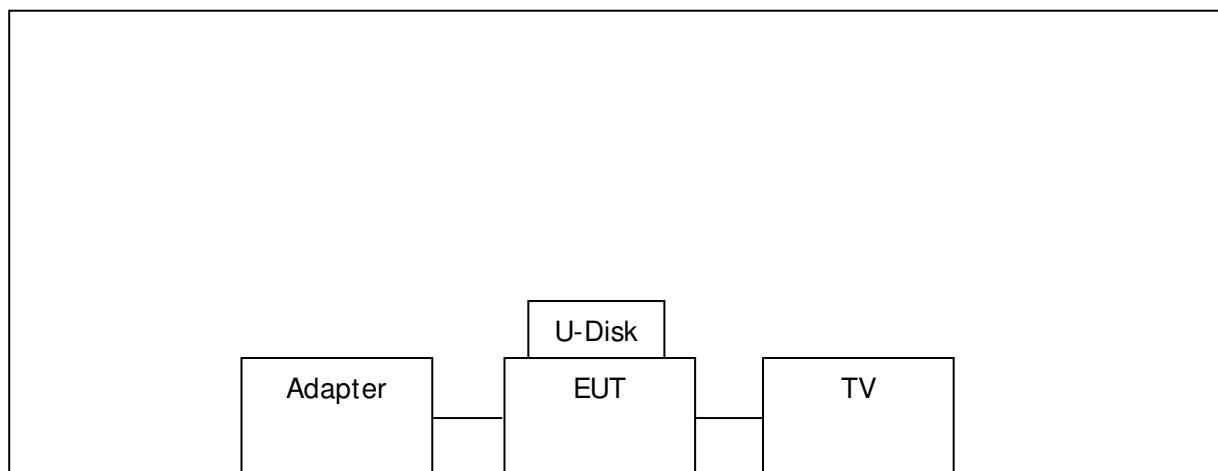
All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Modulation	Test mode	Low channel	Middle channel	High channel
802.11b/g/n-HT20	Transmitting	2412MHz	2437MHz	2462MHz
802.11n-HT40	Transmitting	2422MHz	2437MHz	2452MHz
GFSK(BLE)	Transmitting	2402MHz	2440MHz	2480MHz
Tests Carried Out Under FCC part 15.207 & 15.209				
Test Item		Test Mode		
Conduction Emission, 0.15MHz to 30MHz		WIFI & BT Communication		
Conduction Emission, 0.15MHz to 30MHz		WIFI & BT Communication		

3.4 Test Voltage

Normal Test Voltage	Item
120V 60Hz	Conducted Emission & Radiated Emission
240V 60Hz	Conducted Emission & Radiated Emission
Remark: Only the worst case (120V 60Hz) was recorded in the report.	

3.5 Configuration of System



4 Equipment During Test

4.1 Equipments List

RF Conducted Test							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	EMC Analyzer (9k~26.5GHz)	Agilent	E4407B	MY45109572	Aug.04, 2015	Aug.03, 2016	1 year
2	EXA Signal Analyzer	Keysight	N9010A	MY50520207 526B25MPB W7X	Aug.04, 2015	Aug.03, 2016	1 year
3	EMI Test Receiver	R&S	ESCI	101155	July 15, 2015	July 14, 2016	1 year
4.	Power Sensor	Keysight	U2021XA	SG5440003	Aug.04, 2015	Aug.03, 2016	1 year
Radiated Emissions							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	EMI Test Receiver	Rohde&Schwarz	ESCI	101417	July 15, 2015	July 14, 2016	1 year
2	Trilog Broadband Antenna	SCHWARZB ECK	VULB9160	9160-3355	July 15, 2015	July 14, 2016	1 year
3	Amplifier	EM	EM-30180	060538	July 15, 2015	July 14, 2016	1 year
4	Horn Antenna	SCHWARZB ECK	BBHA9120 D	9120D-1246	July 15, 2015	July 14, 2016	1 year
Conducted Emissions							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	EMI Test Receiver	R&S	ESCI	101155	July 15, 2015	July 14, 2016	1 year
2	LISN	SCHWARZB ECK	NSLK 8128	8128-289	July 15, 2015	July 14, 2016	1 year
3	Cable	LARGE	RF300	-	July 15, 2015	July 14, 2016	1 year



4.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
TV	WanJia	CF-48H-18	CF754816
HDMI(shielding,0.8m)	Viaip	C1016	HSC112
AC power line(1.0m)	WanJia	CF-18	CF0001
U-Disk	Kingston	DTSE9	UD001

4.3 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	$\pm 1.0\text{dB}$
Power Spectral Density, conducted	$\pm 2.2\text{dB}$
Radio Frequency	$\pm 1 \times 10^{-6}$
Bandwidth	$\pm 1.5 \times 10^{-6}$
Time	$\pm 2\%$
Duty Cycle	$\pm 2\%$
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$
Radiated Emission(1GHz~25GHz)	$\pm 4.74\text{dB}$

5 Conducted Emission

Test Requirement: : FCC CFR 47 Part 15 Section 15.207
 Test Method: : ANSI C63.4:2014
 Test Result: : PASS
 Frequency Range: : 150kHz to 30MHz
 Class/Severity: : Class B
 Limit: : 66-56 dB μ V between 0.15MHz & 0.5MHz
 : 56 dB μ V between 0.5MHz & 5MHz
 : 60 dB μ V between 5MHz & 30MHz
 Detector: : Peak for pre-scan (9kHz Resolution Bandwidth)

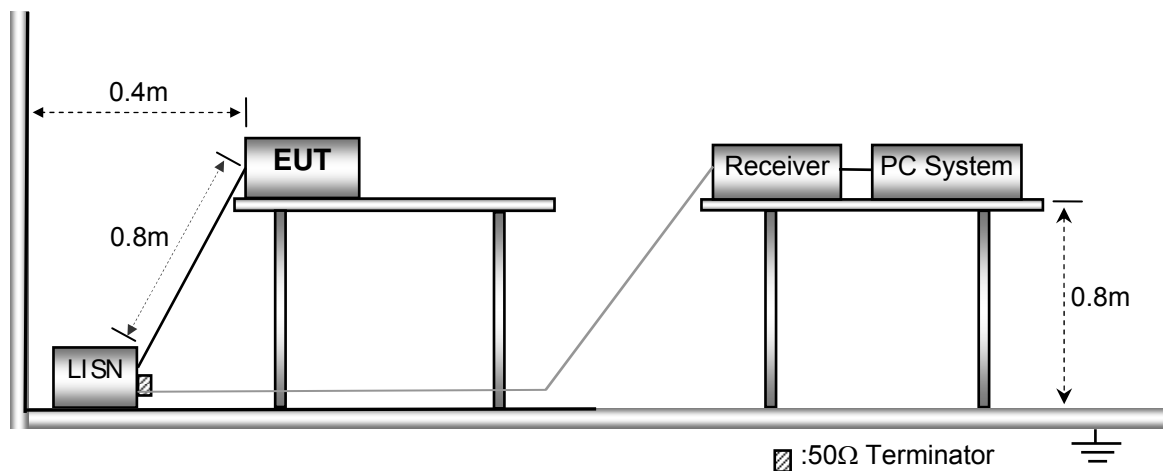
5.1 E.U.T. Operation

Operating Environment :

Temperature: : 25.5 °C
 Humidity: : 51 % RH
 Atmospheric Pressure: : 101.2kPa
 EUT Operation : : Refer to section 3.3

5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003.

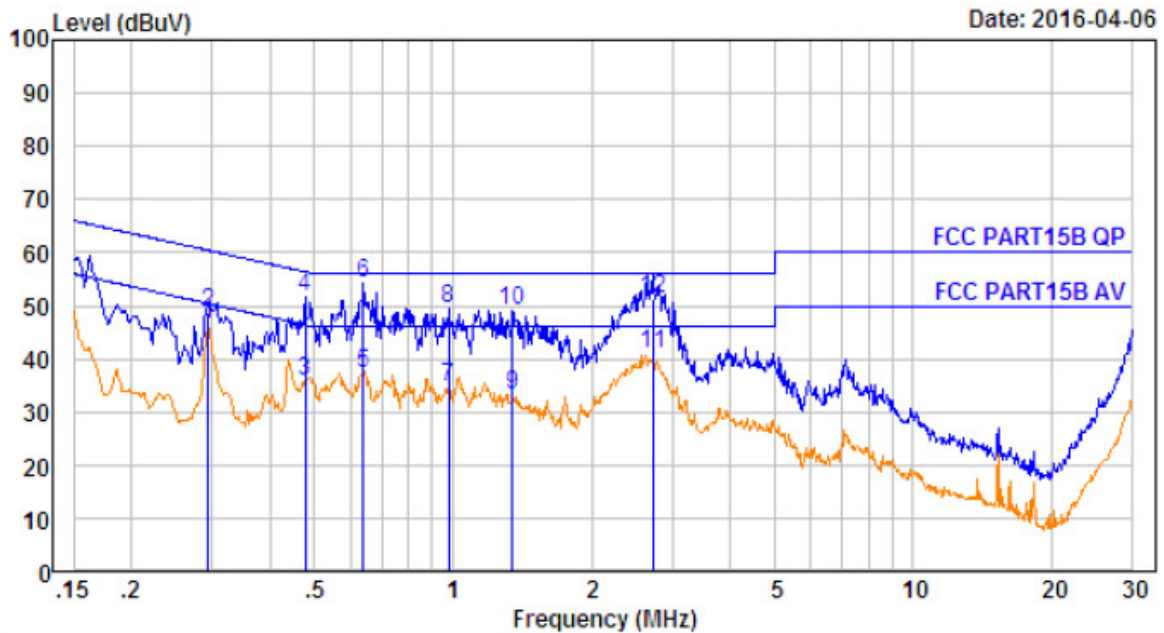


5.3 Measurement Description

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.

5.4 Conducted Emission Test Result

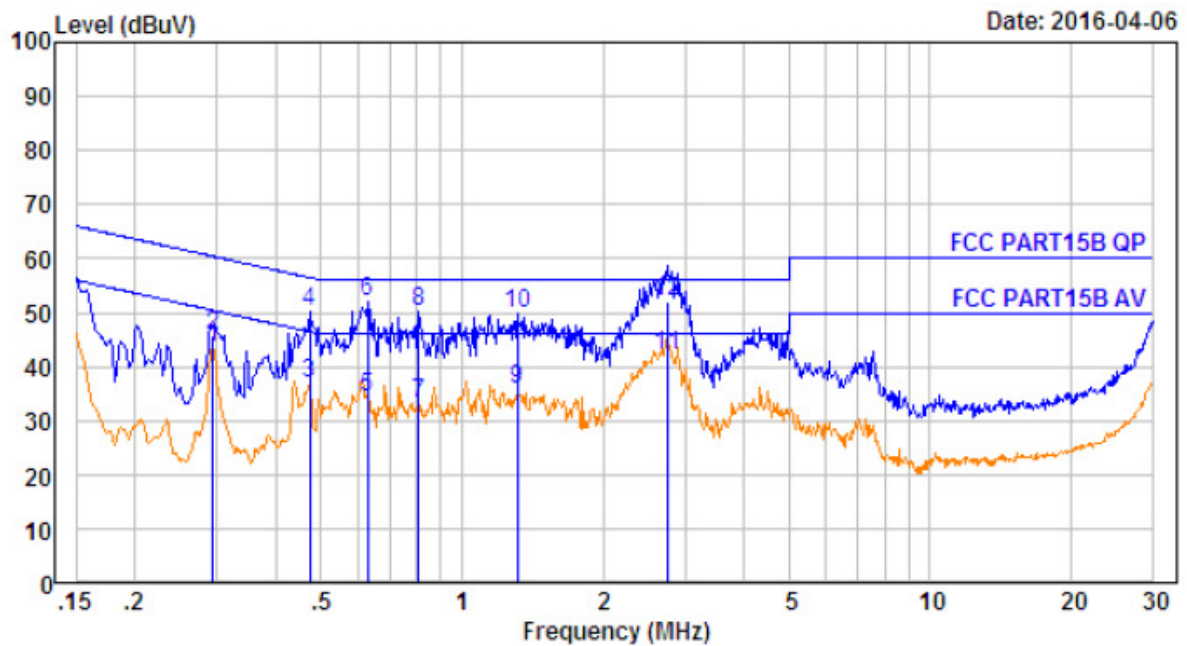
Live line:



No.	Freq MHz	Cable Loss dB	AMN Factor dB	Receiver Reading dBuV	Emission Level dBuV	Limit dBuV	Over Limit dB	Remark
1.	0.294	10.63	0.60	35.20	46.43	50.41	-3.98	Average
2.	0.294	10.63	0.60	37.60	48.83	60.41	-11.58	QP
3.	0.479	10.64	0.60	24.40	35.64	46.36	-10.72	Average
4.	0.479	10.64	0.60	40.40	51.64	56.36	-4.72	QP
5.	0.637	10.66	0.60	26.03	37.29	46.00	-8.71	Average
6.	0.637	10.66	0.60	43.03	53.29	56.00	-2.71	QP
7.	0.979	10.67	0.60	23.35	34.62	46.00	-11.38	Average
8.	0.979	10.67	0.60	38.35	49.62	56.00	-6.38	QP
9.	1.345	10.68	0.60	21.77	33.05	46.00	-12.95	Average
10.	1.345	10.68	0.60	37.77	49.05	56.00	-6.95	QP
11.	2.721	10.71	0.60	29.50	40.81	46.00	-5.19	Average
12.	2.721	10.71	0.60	40.00	51.31	56.00	-4.69	QP



Neutral line:



No.	Freq MHz	Cable Loss dB	AMN Factor dB	Receiver Reading dBuV	Emission Level dBuV	Limit dBuV	Over Limit dB	Remark
1.	0.294	10.63	0.60	32.40	43.63	50.41	-6.78	Average
2.	0.294	10.63	0.60	34.50	45.73	60.41	-14.68	QP
3.	0.474	10.64	0.60	25.79	37.03	46.45	-9.42	Average
4.	0.474	10.64	0.60	38.79	50.03	56.45	-6.42	QP
5.	0.630	10.66	0.60	22.91	34.17	46.00	-11.83	Average
6.	0.630	10.66	0.60	40.91	52.17	56.00	-3.83	QP
7.	0.809	10.66	0.60	21.80	33.06	46.00	-12.94	Average
8.	0.809	10.66	0.60	38.80	50.06	56.00	-5.94	QP
9.	1.317	10.68	0.60	24.38	35.66	46.00	-10.34	Average
10.	1.317	10.68	0.60	38.38	49.66	56.00	-6.34	QP
11.	2.750	10.71	0.60	30.60	41.91	46.00	-4.09	Average
12.	2.750	10.71	0.60	40.80	52.11	56.00	-3.89	QP



6 Radiated Spurious Emissions

Test Requirement: : FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: : ANSI C63.10:2013,KDB 558074 D01 DTS MEAS GUIDANCE V03R05

Test Result: : PASS

Measurement Distance: : 3m

Limit: : See the follow table

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

6.1 EUT Operation

Operating Environment :

Temperature: : 23.5 °C

Humidity: : 51.1 % RH

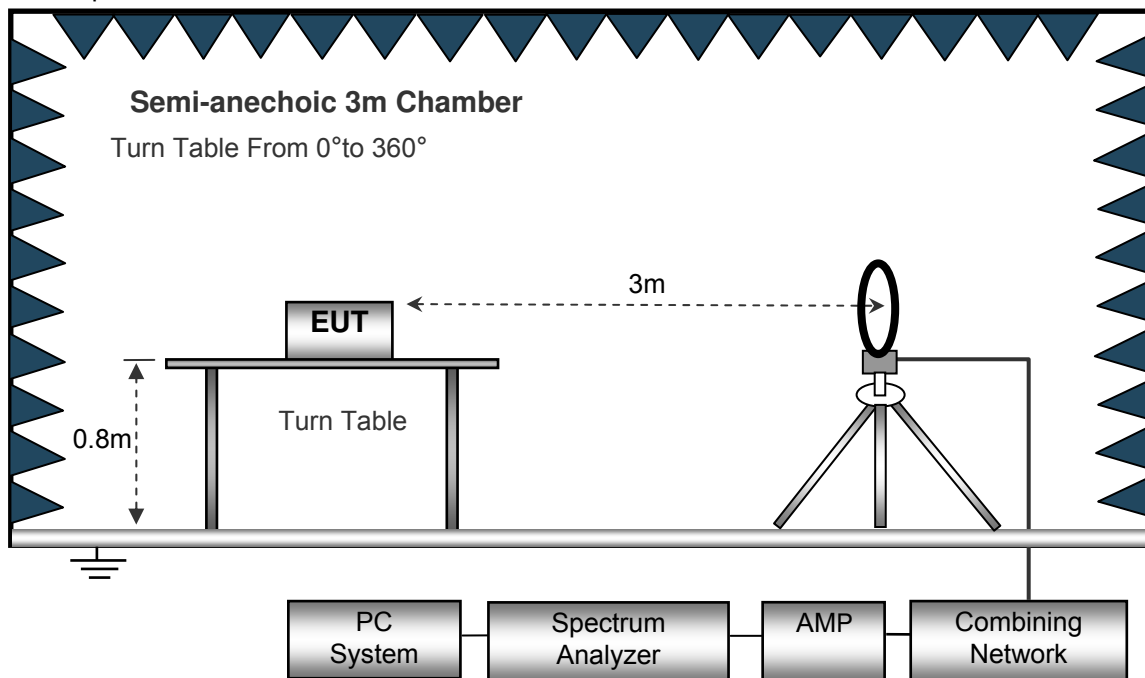
Atmospheric Pressure: : 101.2kPa

EUT Operation : : Refer to section 3.3

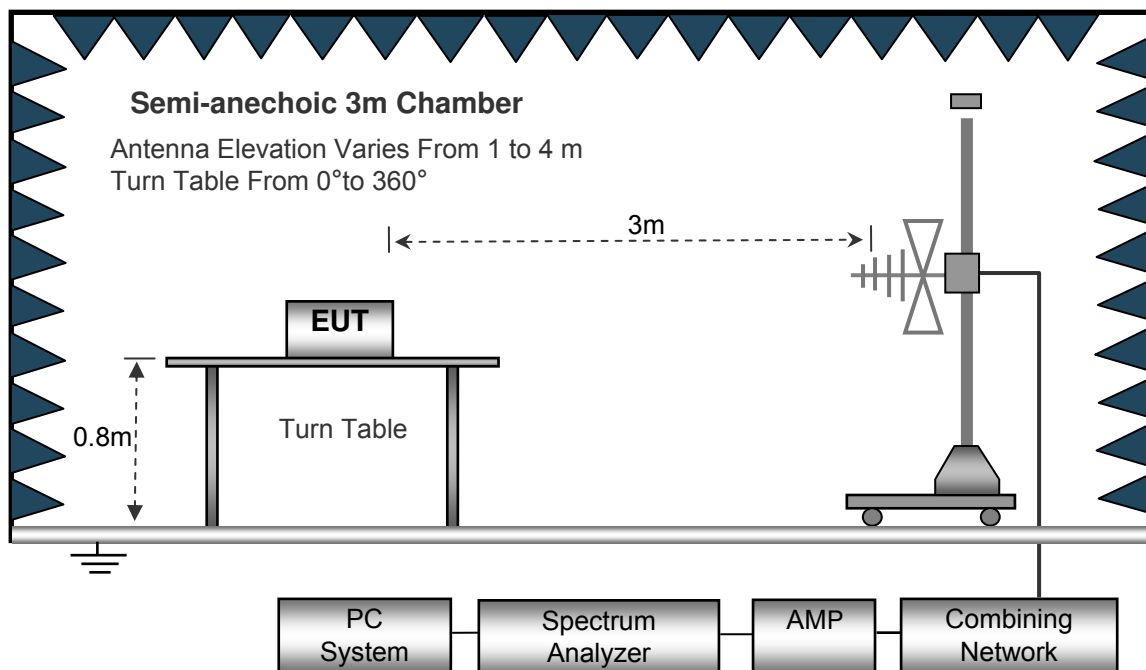
6.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

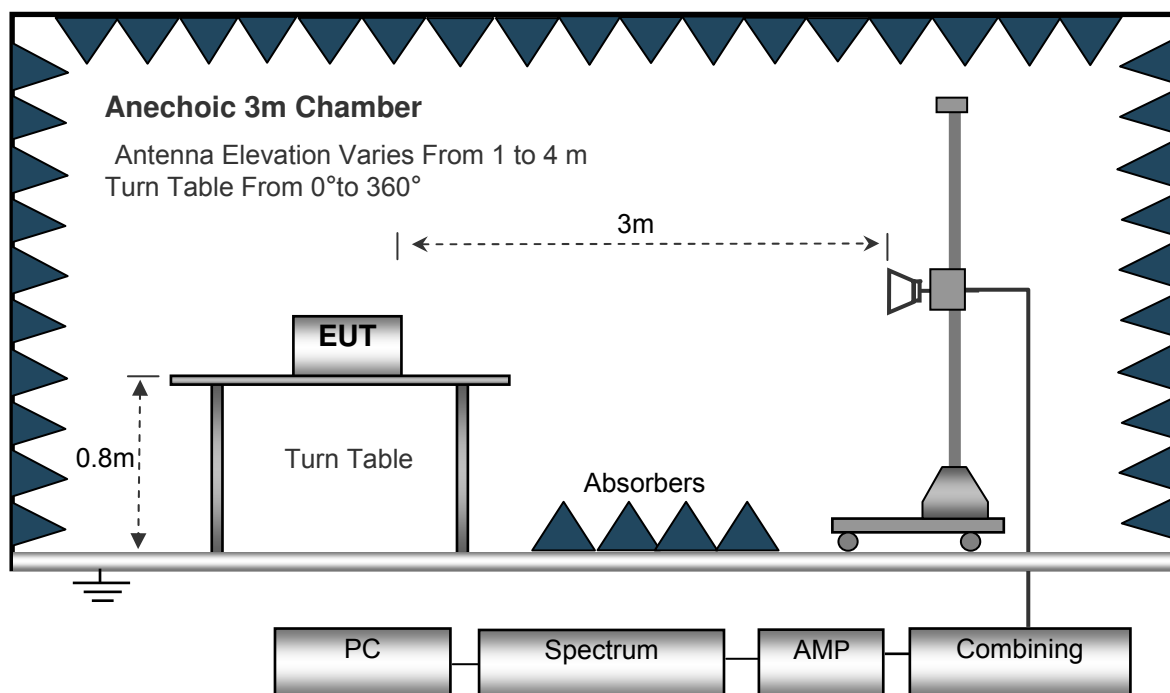
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1 GHz.



6.3 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

6.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
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. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
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 tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.



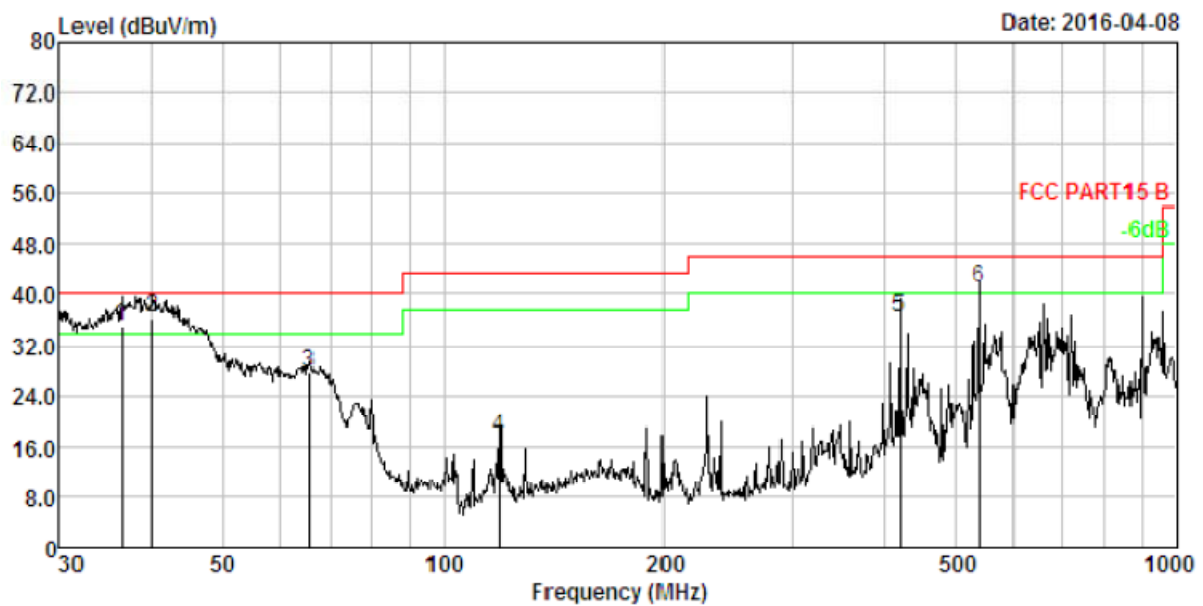
6.5 Summary of Test Results

Test Frequency: Below 30MHz

The measurements were more than 30 dB below the limit and not reported.

Test Frequency: 30MHz ~ 1GHz

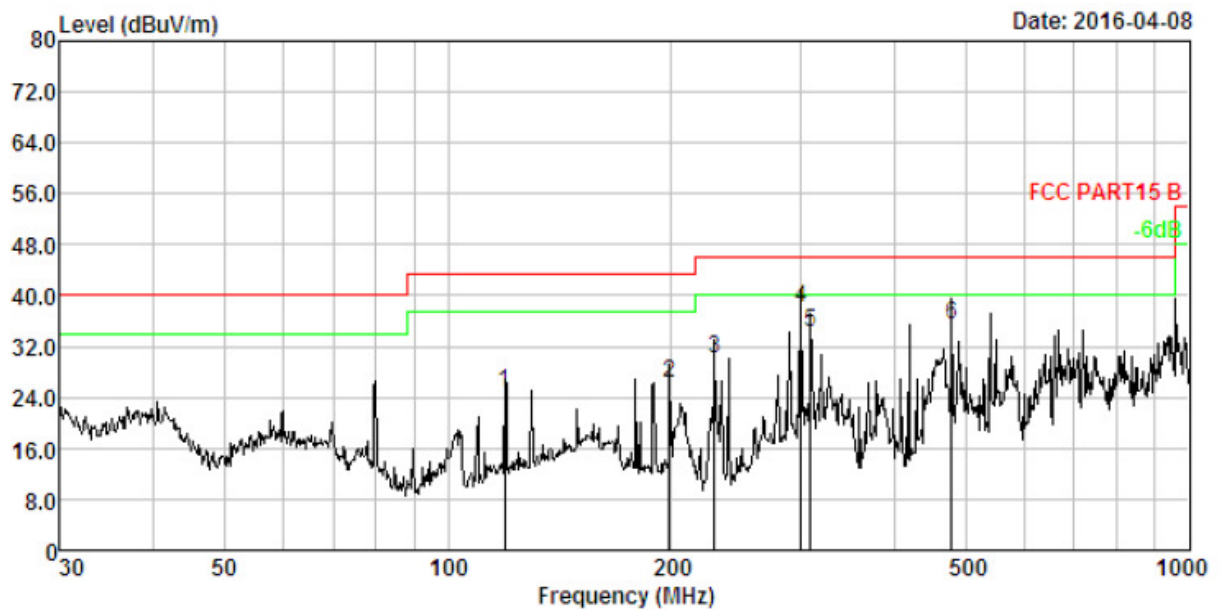
Antenna Polarization: Horizontal



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	36.381	1.23	13.46	50.50	30.04	35.15	40.00	-4.85	QP
2.	40.135	1.32	13.70	51.49	30.07	36.44	40.00	-3.56	QP
3.	65.803	1.77	11.53	44.55	30.24	27.61	40.00	-12.39	QP
4.	119.436	2.31	11.98	33.48	30.45	17.32	43.50	-26.18	QP
5.	419.108	3.44	15.68	48.03	30.89	36.26	46.00	-9.74	QP
6.	539.478	3.67	17.67	50.65	30.98	41.01	46.00	-4.99	QP



Antenna Polarization: Vertical



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	119.436	2.31	11.98	40.88	30.45	24.72	43.50	-18.78	QP
2.	199.286	2.77	10.43	43.64	30.63	26.21	43.50	-17.29	QP
3.	229.293	2.90	11.21	46.59	30.68	30.02	46.00	-15.98	QP
4.	299.316	3.14	13.18	52.63	30.77	38.18	46.00	-7.82	QP
5.	308.913	3.17	13.40	48.48	30.78	34.27	46.00	-11.73	QP
6.	478.846	3.56	16.87	45.95	30.93	35.45	46.00	-10.55	QP



Test Frequency: 1GHz ~ 18GHz

Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK(BLE) Low Channel						
Harmonic & Spurious Emission						
1219.57	49.57	PK	-18.67	30.90	74.00	-43.10
1219.57	44.95	Ave	-18.67	26.28	54.00	-27.72
4804.00	49.50	PK	-1.06	48.44	74.00	-25.56
4804.00	43.77	Ave	-1.06	42.71	54.00	-11.29
7206.00	48.70	PK	1.33	50.03	74.00	-23.97
7206.00	43.90	Ave	1.33	45.23	54.00	-8.77
Restricted bands Emission						
2318.93	49.23	PK	-13.19	36.04	74.00	-37.96
2318.93	43.19	Ave	-13.19	30.00	54.00	-24.00
2701.41	49.74	PK	-12.54	37.20	74.00	-36.80
2701.41	46.71	Ave	-12.54	34.17	54.00	-19.83
3336.55	46.62	PK	-10.89	35.73	74.00	-38.27
3336.55	46.00	Ave	-10.89	35.11	54.00	-18.89
Remark:						
1.Corrected Factor=ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK(BLE) Middle Channel						
Harmonic & Spurious Emission						
1219.57	49.47	PK	-18.67	30.80	74.00	-43.20
1219.57	45.53	Ave	-18.67	26.86	54.00	-27.14
4880.00	49.78	PK	-0.93	48.85	74.00	-25.15
4880.00	43.69	Ave	-0.93	42.76	54.00	-11.24
7323.00	47.89	PK	1.67	49.56	74.00	-24.44
7323.00	44.00	Ave	1.67	45.67	54.00	-8.33
Restricted bands Emission						
2332.41	49.99	PK	-13.19	36.80	74.00	-37.20
2332.41	42.12	Ave	-13.19	28.93	54.00	-25.07
2705.71	52.28	PK	-12.54	39.74	74.00	-34.26
2705.71	47.16	Ave	-12.54	34.62	54.00	-19.38
3338.98	46.92	PK	-10.89	36.03	74.00	-37.97
3338.98	44.40	Ave	-10.89	33.51	54.00	-20.49
Remark:						
1. Corrected Factor=ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK(BLE) High Channel						
Harmonic & Spurious Emission						
1219.57	50.19	PK	-18.67	31.52	74.00	-42.48
1219.57	45.50	Ave	-18.67	26.83	54.00	-27.17
4960.00	49.37	PK	-0.87	48.50	74.00	-25.50
4960.00	43.65	Ave	-0.87	42.78	54.00	-11.22
7440.00	48.07	PK	1.84	49.91	74.00	-24.09
7440.00	43.63	Ave	1.84	45.47	54.00	-8.53
Restricted bands Emission						
2343.25	51.79	PK	-13.19	38.60	74.00	-35.40
2343.25	42.04	Ave	-13.19	28.85	54.00	-25.15
2714.10	51.40	PK	-12.54	38.86	74.00	-35.14
2714.10	45.92	Ave	-12.54	33.38	54.00	-20.62
3334.52	47.27	PK	-10.89	36.38	74.00	-37.62
3334.52	43.99	Ave	-10.89	33.10	54.00	-20.90
Remark:						
1. Corrected Factor=ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11b Low Channel						
Harmonic & Spurious Emission						
1354.62	45.23	QP	-17.57	27.66	43.50	-15.84
1354.62	44.96	QP	-17.57	27.39	43.50	-16.11
4824.00	48.83	PK	-1.06	47.77	74.00	-26.23
4824.00	45.55	Ave	-1.06	44.49	54.00	-9.51
7236.00	49.94	PK	1.33	51.27	74.00	-22.73
7236.00	43.47	Ave	1.33	44.80	54.00	-9.20
Restricted bands Emission						
2338.95	50.50	PK	-13.19	37.31	74.00	-36.69
2338.95	41.18	Ave	-13.19	27.99	54.00	-26.01
2709.87	52.65	PK	-12.54	40.11	74.00	-33.89
2709.87	48.01	Ave	-12.54	35.47	54.00	-18.53
3338.13	46.15	PK	-10.89	35.26	74.00	-38.74
3338.13	43.44	Ave	-10.89	32.55	54.00	-21.45
Remark:						
1. Corrected Factor = ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11b Middle Channel						
Harmonic & Spurious Emission						
1354.62	44.91	QP	-17.57	27.34	43.50	-16.16
1354.62	44.88	QP	-17.57	27.31	43.50	-16.19
4874.00	49.72	PK	-0.93	48.79	74.00	-25.21
4874.00	44.99	Ave	-0.93	44.06	54.00	-9.94
7311.00	50.20	PK	1.67	51.87	74.00	-22.13
7311.00	42.83	Ave	1.67	44.50	54.00	-9.50
Restricted bands Emission						
2310.67	49.99	PK	-13.19	36.80	74.00	-37.20
2310.67	42.12	Ave	-13.19	28.93	54.00	-25.07
2711.64	52.28	PK	-12.54	39.74	74.00	-34.26
2711.64	47.16	Ave	-12.54	34.62	54.00	-19.38
3336.02	46.92	PK	-10.89	36.03	74.00	-37.97
3336.02	44.40	Ave	-10.89	33.51	54.00	-20.49
Remark:						
1. Corrected Factor = ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11b High Channel						
Harmonic & Spurious Emission						
1354.62	45.42	QP	-17.57	27.85	43.50	-15.65
1354.62	44.35	QP	-17.57	26.78	43.50	-16.72
4924.00	50.52	PK	-0.87	49.65	74.00	-24.35
4924.00	44.77	Ave	-0.87	43.90	54.00	-10.10
7386.00	50.01	PK	1.84	51.85	74.00	-22.15
7386.00	42.46	Ave	1.84	44.30	54.00	-9.70
Restricted bands Emission						
2345.86	51.79	PK	-13.19	38.60	74.00	-35.40
2345.86	42.04	Ave	-13.19	28.85	54.00	-25.15
2718.69	51.40	PK	-12.54	38.86	74.00	-35.14
2718.69	45.92	Ave	-12.54	33.38	54.00	-20.62
3337.40	47.27	PK	-10.89	36.38	74.00	-37.62
3337.40	43.99	Ave	-10.89	33.10	54.00	-20.90
Remark:						
1. Corrected Factor = ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11g Low Channel						
Harmonic & Spurious Emission						
1354.62	44.29	QP	-17.57	26.72	43.50	-16.78
1354.62	45.69	QP	-17.57	28.12	43.50	-15.38
4824.00	49.80	PK	-1.06	48.74	74.00	-25.26
4824.00	45.73	Ave	-1.06	44.67	54.00	-9.33
7236.00	49.89	PK	1.33	51.22	74.00	-22.78
7236.00	43.71	Ave	1.33	45.04	54.00	-8.96
Restricted bands Emission						
2339.00	49.51	PK	-13.19	36.32	74.00	-37.68
2339.00	41.49	Ave	-13.19	28.30	54.00	-25.70
2693.28	52.46	PK	-12.54	39.92	74.00	-34.08
2693.28	48.54	Ave	-12.54	36.00	54.00	-18.00
3335.75	46.15	PK	-10.89	35.26	74.00	-38.74
3335.75	44.38	Ave	-10.89	33.49	54.00	-20.51
Remark:						
1. Corrected Factor = ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11g Middle Channel						
Harmonic & Spurious Emission						
1354.62	44.37	QP	-17.57	26.80	43.50	-16.70
1354.62	46.06	QP	-17.57	28.49	43.50	-15.01
4874.00	49.92	PK	-0.93	48.99	74.00	-25.01
4874.00	45.56	Ave	-0.93	44.63	54.00	-9.37
7311.00	50.63	PK	1.67	52.30	74.00	-21.70
7311.00	44.62	Ave	1.67	46.29	54.00	-7.71
Restricted bands Emission						
2338.20	49.99	PK	-13.19	36.80	74.00	-37.20
2338.20	42.12	Ave	-13.19	28.93	54.00	-25.07
2713.01	52.28	PK	-12.54	39.74	74.00	-34.26
2713.01	47.16	Ave	-12.54	34.62	54.00	-19.38
3334.15	46.92	PK	-10.89	36.03	74.00	-37.97
3334.15	44.40	Ave	-10.89	33.51	54.00	-20.49
Remark:						
1. Corrected Factor = ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11g High Channel						
Harmonic & Spurious Emission						
1354.62	45.18	QP	-17.57	27.61	43.50	-15.89
1354.62	46.65	QP	-17.57	29.08	43.50	-14.42
4924.00	49.95	PK	-0.87	49.08	74.00	-24.92
4924.00	46.29	Ave	-0.87	45.42	54.00	-8.58
7386.00	50.98	PK	1.84	52.82	74.00	-21.18
7386.00	45.15	Ave	1.84	46.99	54.00	-7.01
Restricted bands Emission						
2347.37	51.79	PK	-13.19	38.60	74.00	-35.40
2347.37	42.04	Ave	-13.19	28.85	54.00	-25.15
2696.28	51.40	PK	-12.54	38.86	74.00	-35.14
2696.28	45.92	Ave	-12.54	33.38	54.00	-20.62
3338.69	47.27	PK	-10.89	36.38	74.00	-37.62
3338.69	43.99	Ave	-10.89	33.10	54.00	-20.90
Remark:						
1. Corrected Factor = ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n HT20 Low Channel						
Harmonic & Spurious Emission						
1350.60	43.90	QP	-17.57	26.33	43.50	-17.17
1350.60	45.95	QP	-17.57	28.38	43.50	-15.12
4824.00	48.81	PK	-1.06	47.75	74.00	-26.25
4824.00	45.46	Ave	-1.06	44.40	54.00	-9.60
7236.00	50.58	PK	1.33	51.91	74.00	-22.09
7236.00	44.34	Ave	1.33	45.67	54.00	-8.33
Restricted bands Emission						
2314.18	49.67	PK	-13.19	36.48	74.00	-37.52
2314.18	41.87	Ave	-13.19	28.68	54.00	-25.32
2693.21	51.72	PK	-12.54	39.18	74.00	-34.82
2693.21	47.87	Ave	-12.54	35.33	54.00	-18.67
3334.73	45.66	PK	-10.89	34.77	74.00	-39.23
3334.73	44.81	Ave	-10.89	33.92	54.00	-20.08
Remark:						
1. Corrected Factor = ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n HT20 Middle Channel						
Harmonic & Spurious Emission						
1350.60	43.02	QP	-17.57	25.45	43.50	-18.05
1350.60	45.62	QP	-17.57	28.05	43.50	-15.45
4874.00	49.78	PK	-0.93	48.85	74.00	-25.15
4874.00	44.95	Ave	-0.93	44.02	54.00	-9.98
7311.00	51.25	PK	1.67	52.92	74.00	-21.08
7311.00	44.15	Ave	1.67	45.82	54.00	-8.18
Restricted bands Emission						
2320.65	49.99	PK	-13.19	36.80	74.00	-37.20
2320.65	42.12	Ave	-13.19	28.93	54.00	-25.07
2710.80	52.28	PK	-12.54	39.74	74.00	-34.26
2710.80	47.16	Ave	-12.54	34.62	54.00	-19.38
3333.03	46.92	PK	-10.89	36.03	74.00	-37.97
3333.03	44.40	Ave	-10.89	33.51	54.00	-20.49
Remark:						
1. Corrected Factor = ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n HT20 High Channel						
Harmonic & Spurious Emission						
1350.60	43.10	QP	-17.57	25.53	43.50	-17.97
1350.60	46.12	QP	-17.57	28.55	43.50	-14.95
4924.00	50.44	PK	-0.87	49.57	74.00	-24.43
4924.00	45.65	Ave	-0.87	44.78	54.00	-9.22
7386.00	51.74	PK	1.84	53.58	74.00	-20.42
7386.00	44.02	Ave	1.84	45.86	54.00	-8.14
Restricted bands Emission						
2324.45	51.79	PK	-13.19	38.60	74.00	-35.40
2324.45	42.04	Ave	-13.19	28.85	54.00	-25.15
2719.76	51.40	PK	-12.54	38.86	74.00	-35.14
2719.76	45.92	Ave	-12.54	33.38	54.00	-20.62
3336.24	47.27	PK	-10.89	36.38	74.00	-37.62
3336.24	43.99	Ave	-10.89	33.10	54.00	-20.90
Remark:						
1. Corrected Factor = ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n HT40 Low Channel						
Harmonic & Spurious Emission						
1279.56	46.51	QP	-18.64	27.87	43.50	-15.63
1279.56	45.60	QP	-18.64	26.96	43.50	-16.54
4844.00	46.28	PK	-1.06	45.22	74.00	-28.78
4844.00	43.65	Ave	-1.06	42.59	54.00	-11.41
7266.00	46.91	PK	1.33	48.24	74.00	-25.76
7266.00	42.25	Ave	1.33	43.58	54.00	-10.42
Restricted bands Emission						
2343.07	49.09	PK	-13.19	35.90	74.00	-38.10
2343.07	42.35	Ave	-13.19	29.16	54.00	-24.84
2691.21	52.07	PK	-12.54	39.53	74.00	-34.47
2691.21	48.14	Ave	-12.54	35.60	54.00	-18.40
3333.51	44.68	PK	-10.89	33.79	74.00	-40.21
3333.51	44.61	Ave	-10.89	33.72	54.00	-20.28
Remark:						
1. Corrected Factor = ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n HT40 Middle Channel						
Harmonic & Spurious Emission						
1279.56	46.64	QP	-18.64	28.00	43.50	-15.50
1279.56	45.98	QP	-18.64	27.34	43.50	-16.16
4874.00	46.58	PK	-0.93	45.65	74.00	-28.35
4874.00	43.58	Ave	-0.93	42.65	54.00	-11.35
7311.00	46.54	PK	1.67	48.21	74.00	-25.79
7311.00	41.99	Ave	1.67	43.66	54.00	-10.34
Restricted bands Emission						
2315.45	49.99	PK	-13.19	36.80	74.00	-37.20
2315.45	42.12	Ave	-13.19	28.93	54.00	-25.07
2713.58	52.28	PK	-12.54	39.74	74.00	-34.26
2713.58	47.16	Ave	-12.54	34.62	54.00	-19.38
3335.74	46.92	PK	-10.89	36.03	74.00	-37.97
3335.74	44.40	Ave	-10.89	33.51	54.00	-20.49
Remark:						
1. Corrected Factor = ANT Factor + Cable Loss – Amp Gain						



Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n HT40 High Channel						
Harmonic & Spurious Emission						
1279.56	46.69	QP	-18.64	28.05	43.50	-15.45
1279.56	45.85	QP	-18.64	27.21	43.50	-16.29
4904.00	46.26	PK	-0.87	45.39	74.00	-28.61
4904.00	42.98	Ave	-0.87	42.11	54.00	-11.89
7356.00	46.22	PK	1.84	48.06	74.00	-25.94
7356.00	41.51	Ave	1.84	43.35	54.00	-10.65
Restricted bands Emission						
2314.49	51.79	PK	-13.19	38.60	74.00	-35.40
2314.49	42.04	Ave	-13.19	28.85	54.00	-25.15
2714.26	51.40	PK	-12.54	38.86	74.00	-35.14
2714.26	45.92	Ave	-12.54	33.38	54.00	-20.62
3333.22	47.27	PK	-10.89	36.38	74.00	-37.62
3333.22	43.99	Ave	-10.89	33.10	54.00	-20.90
Remark:						
1. Corrected Factor=ANT Factor + Cable Loss – Amp Gain						

**Radiated band edge:**

Frequency	Receiver Reading	Detector	Corrected Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK(BLE)						
2400.00	47.93	PK	-13.12	34.81	74.00	-39.19
2400.00	41.45	PK	-13.12	28.33	74.00	-45.67
2483.50	47.62	PK	-13.06	34.56	74.00	-39.44
2483.50	43.18	PK	-13.06	30.12	74.00	-43.88
802.11b						
2400.00	49.57	PK	-13.12	36.45	74.00	-37.55
2400.00	41.49	PK	-13.12	28.37	74.00	-45.63
2483.50	48.77	PK	-13.06	35.71	74.00	-38.29
2483.50	42.53	PK	-13.06	29.47	74.00	-44.53
802.11g						
2400.00	48.52	PK	-13.12	35.40	74.00	-38.60
2400.00	41.86	PK	-13.12	28.74	74.00	-45.26
2483.50	47.28	PK	-13.06	34.22	74.00	-39.78
2483.50	42.65	PK	-13.06	29.59	74.00	-44.41
802.11n HT20						
2400.00	48.80	PK	-13.12	35.68	74.00	-38.32
2400.00	43.13	PK	-13.12	30.01	74.00	-43.99
2483.50	47.88	PK	-13.06	34.82	74.00	-39.18
2483.50	42.25	PK	-13.06	29.19	74.00	-44.81
802.11n HT40						
2400.00	50.04	PK	-13.12	36.92	74.00	-37.08
2400.00	42.84	PK	-13.12	29.72	74.00	-44.28
2483.50	47.40	PK	-13.06	34.34	74.00	-39.66
2483.50	42.58	PK	-13.06	29.52	74.00	-44.48

Test Frequency: Above 18GHz

The measurements were more than 30 dB below the limit and not reported

Remark : 1. The testing has been conformed to 10*2472 =24720MHz.
2. All other emissions more than 30dB below the limit

7 Band Edge Measurement

- Test Requirement : Section 15.247(d) 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)).
- Test Method : ANSI C63.10:2013, KDB 558074 D01 DTS MEAS GUIDANCE V03R05
- 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 : Refer to section 3.3

7.1 Test Procedure

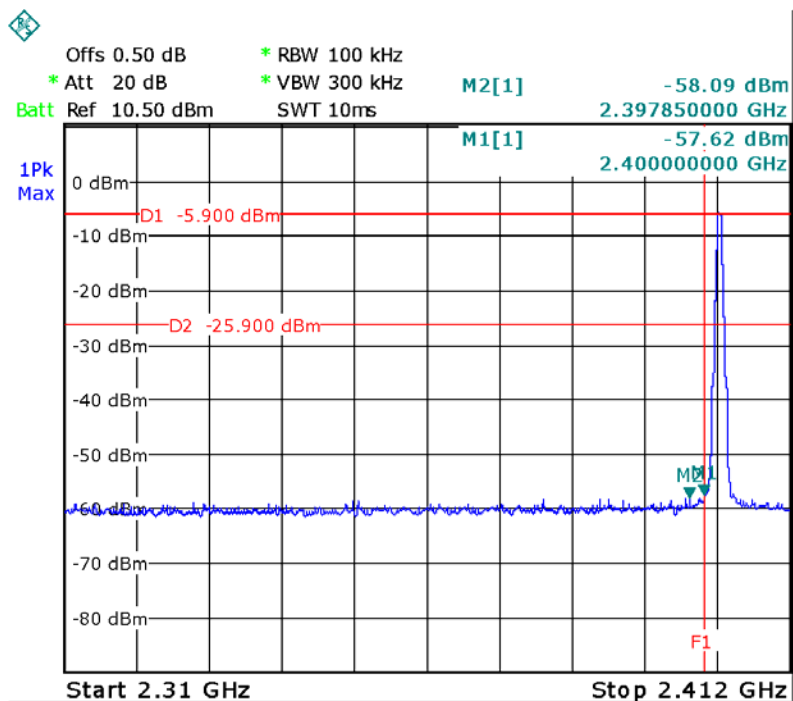
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz, Sweep = auto

Detector function = peak, Trace = max hold

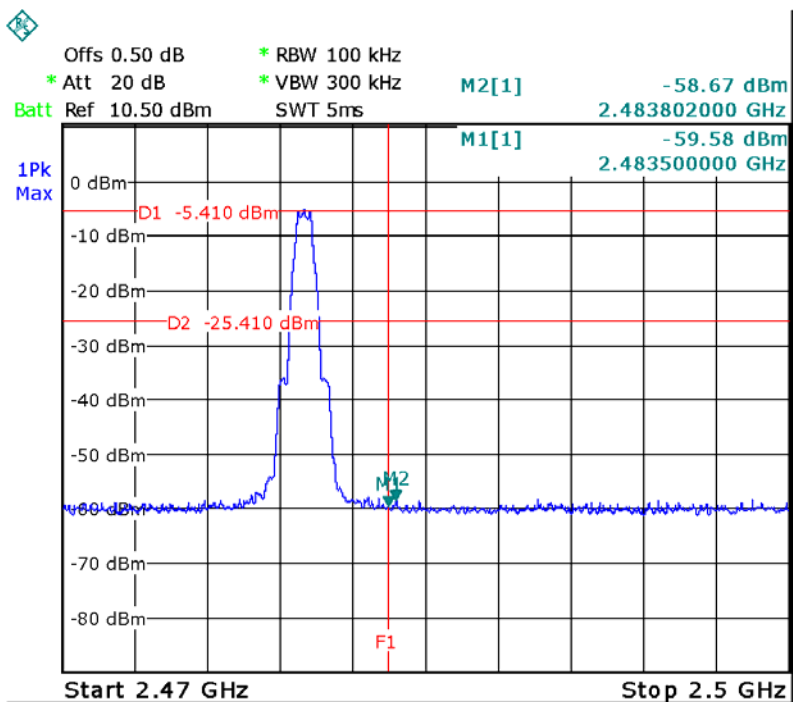
Mode	Band edge	Value	Limit	Result
BLE	Left	-58.09	-25.90	Pass
	Right	-58.67	-25.41	Pass
802.11b	Left	-44.30	-24.07	Pass
	Right	57.67	-24.00	Pass
802.11g	Left	-47.05	-31.97	Pass
	Right	-56.55	-32.90	Pass
802.11n HT20	Left	-48.60	-32.87	Pass
	Right	-54.74	-32.95	Pass
802.11n HT40	Left	-44.43	-36.09	Pass
	Right	-53.73	-36.00	Pass
Remark:				
The limit is 20dB below the maximum peak level, please refer to the display line of the follow plot				

7.2 Test Result

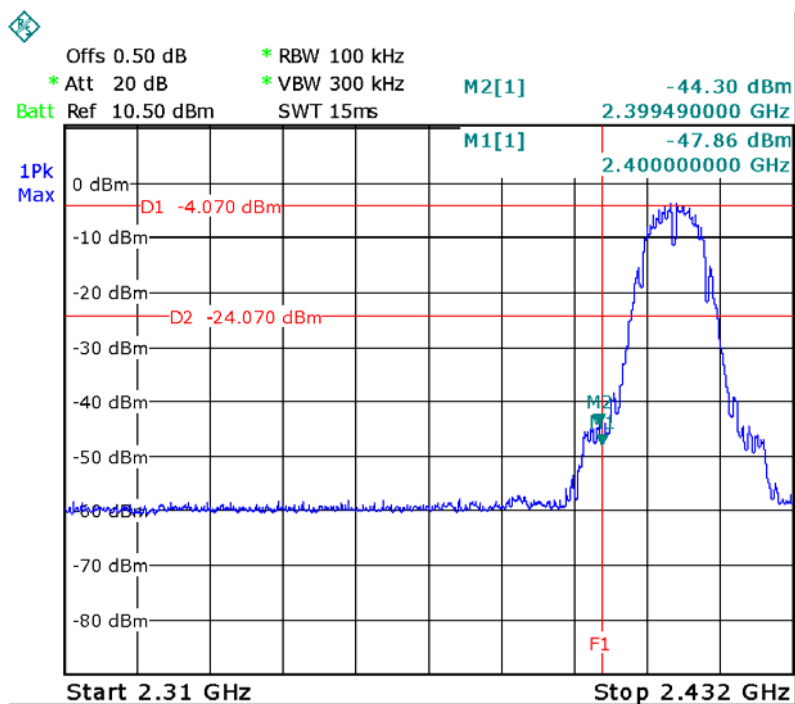
GFSK(BLE) Band edge-left side



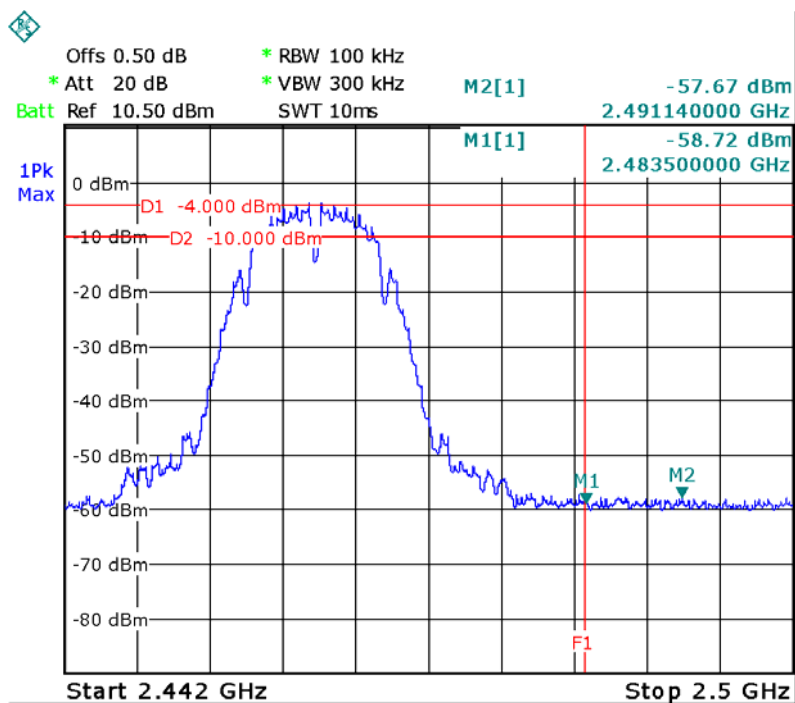
GFSK(BLE) Band edge-right side



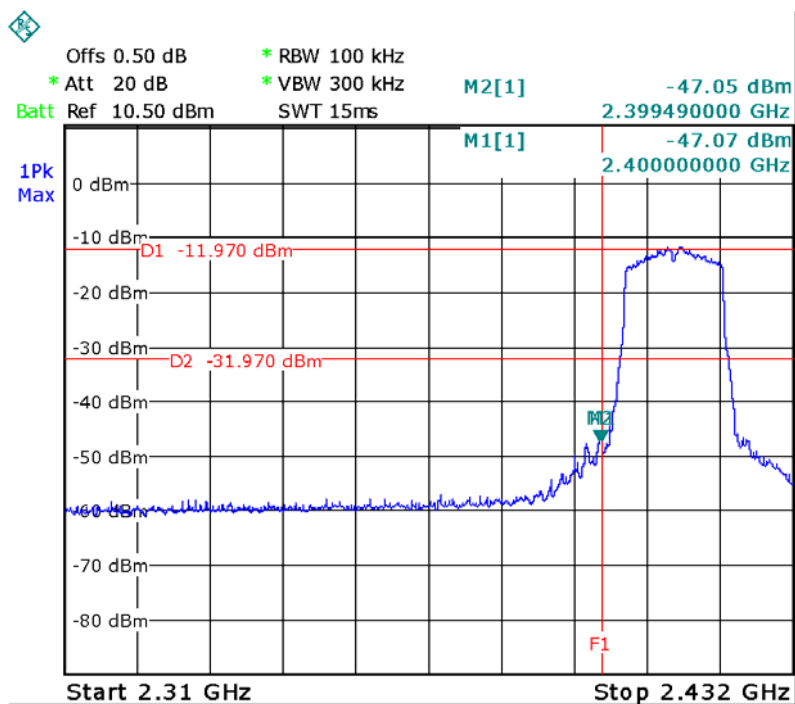
802.11b Band edge-left side



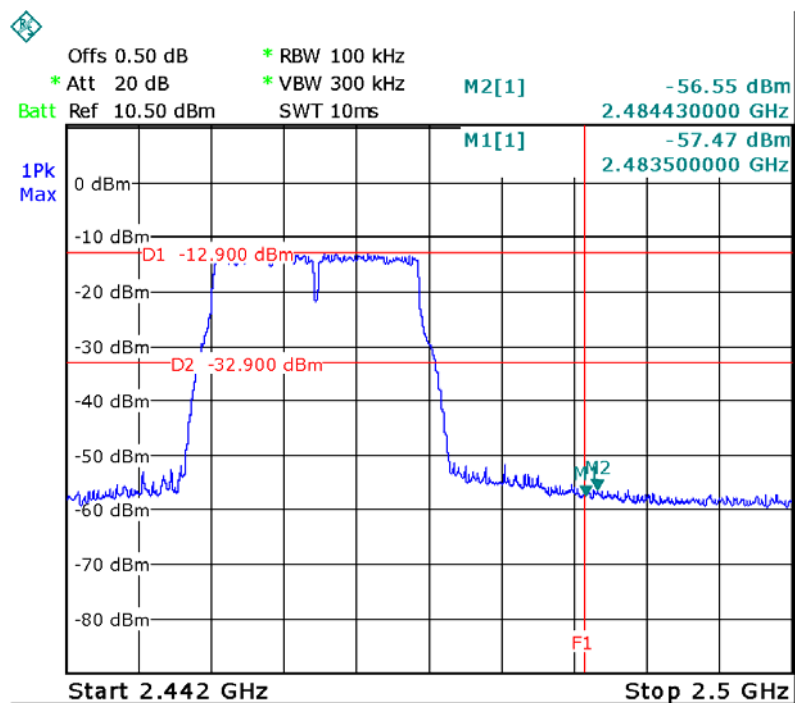
802.11b Band edge-right side



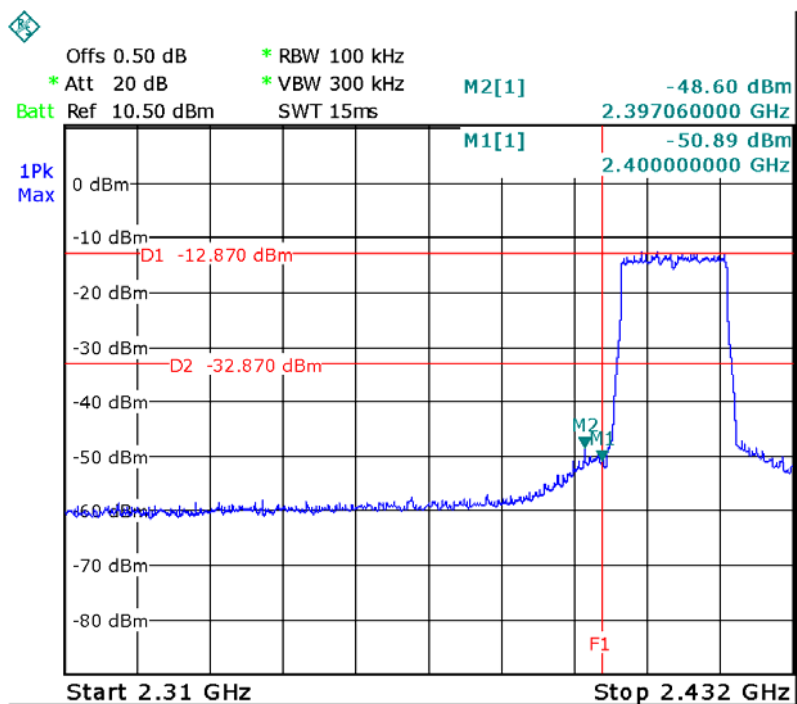
802.11g Band edge-left side



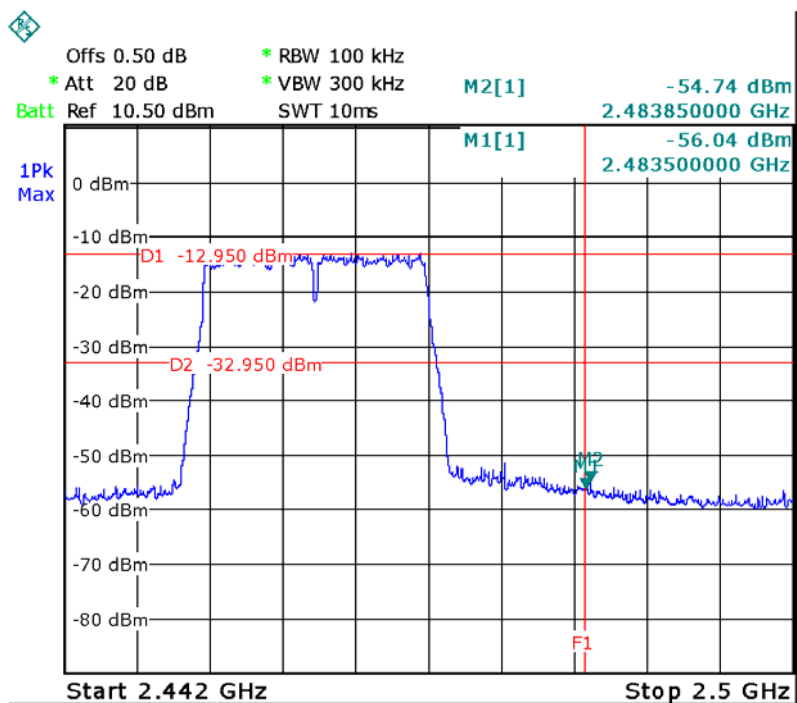
802.11g Band edge-right side



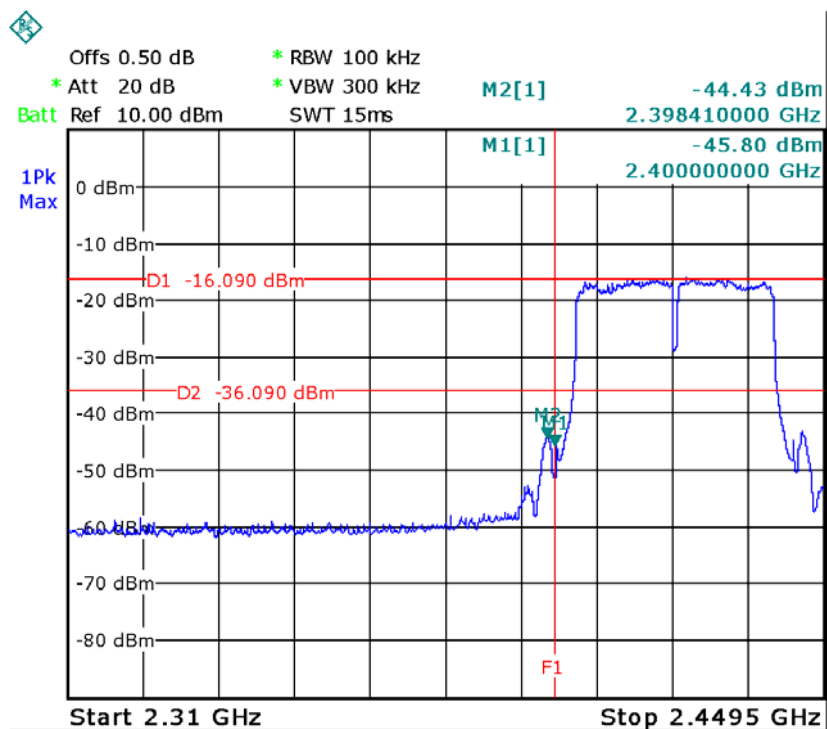
802.11n-HT20 Band edge-left side



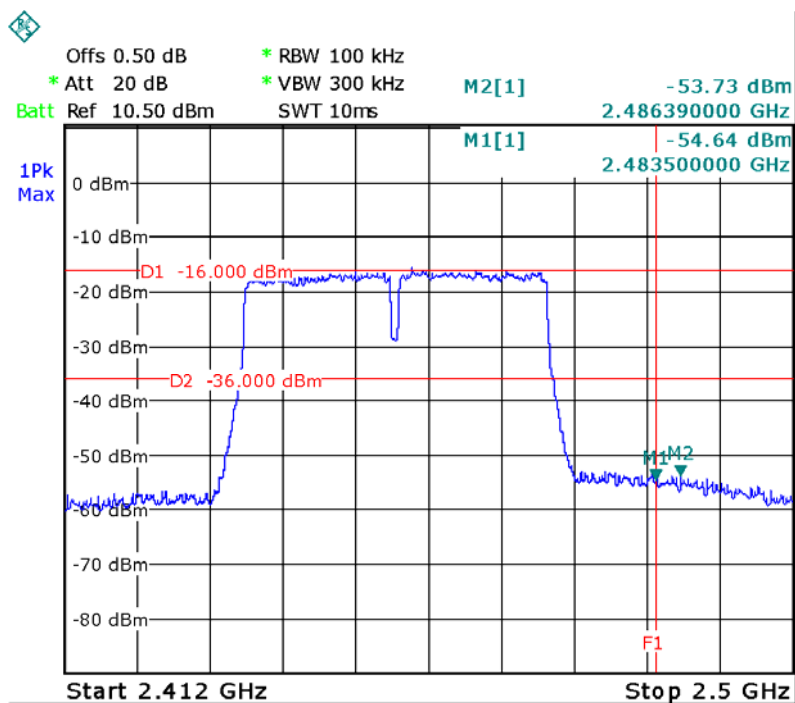
802.11n-HT20 Band edge-right side



802.11n-HT40 Band edge-left side



802.11n-HT40 Band edge-right side



8 6dB Bandwidth Measurement

Test Requirement : FCC CFR47 Part 15 Section 15.247

Test Method : ANSI C63.10:2013, KDB 558074 D01 DTS MEAS GUIDANCE V03R05

Test Limit : Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Mode : Refer to section 3.3

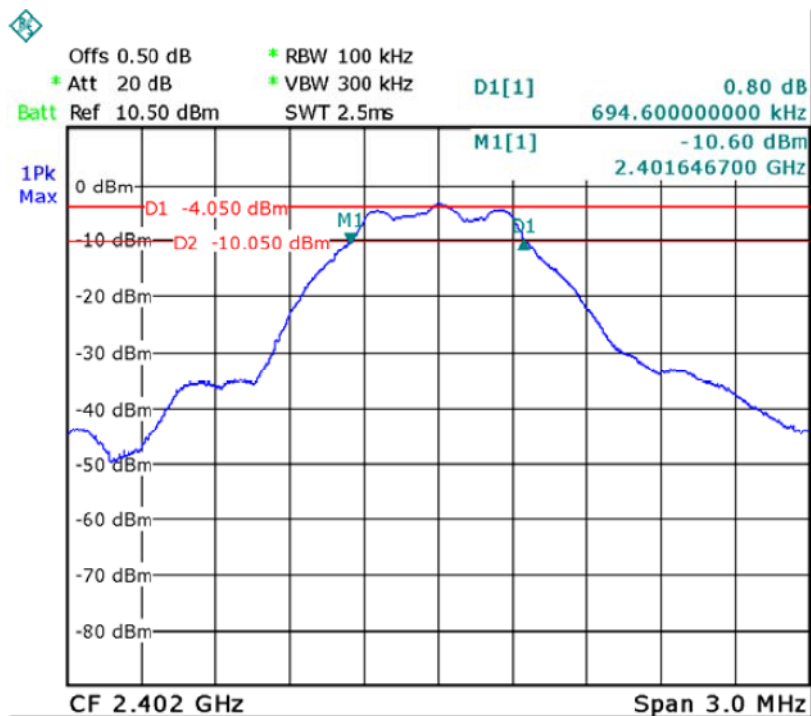
8.1 Test Procedure

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: For BLE, RBW = 100kHz, VBW = 300kHz, For WIFI, RBW = 100kHz, VBW = 300kHz,

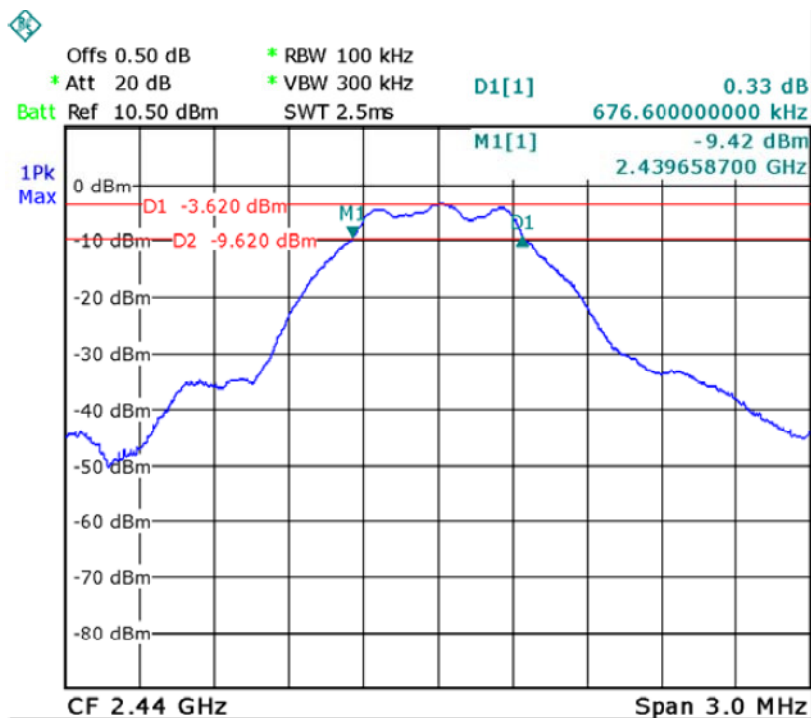
8.2 Test Result

Modulation	Bandwidth(MHz)			Limit
	Low Channel	Middle Channel	High Channel	
GFSK(BLE)	0.695	0.695	0.695	≥500kHz
802.11b	9.517	9.517	9.517	≥500kHz
802.11g	16.467	16.567	16.567	≥500kHz
802.11n-HT20	17.784	17.784	17.784	≥500kHz
802.11n-HT40	36.560	36.560	36.560	≥500kHz

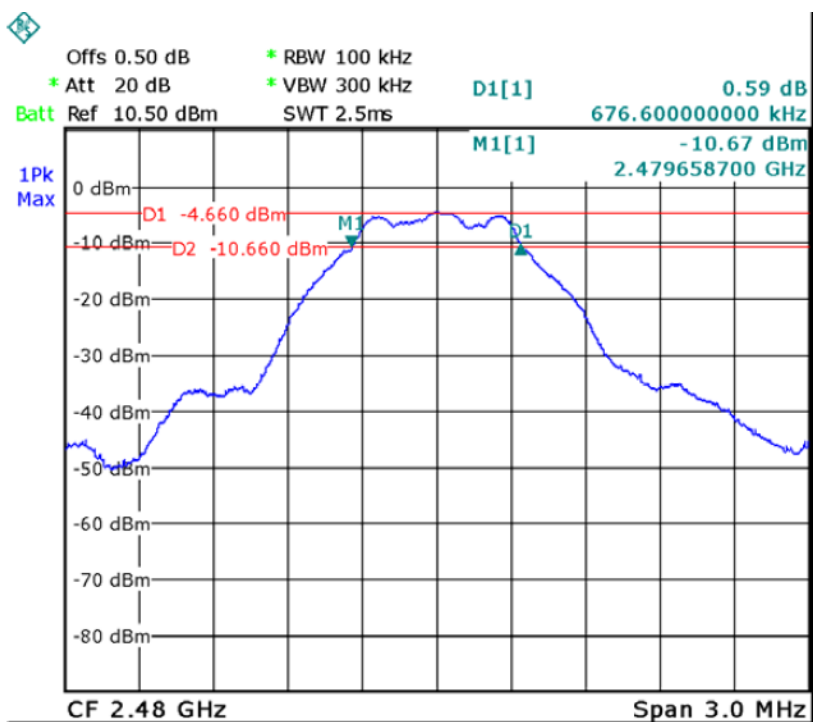
GFSK(BLE) Low Channel



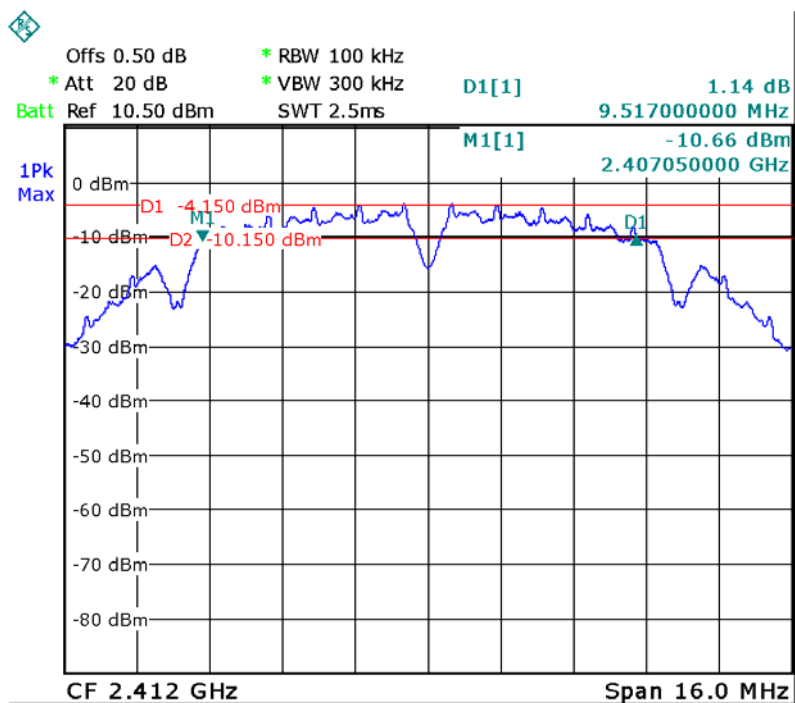
GFSK(BLE) Middle Channel



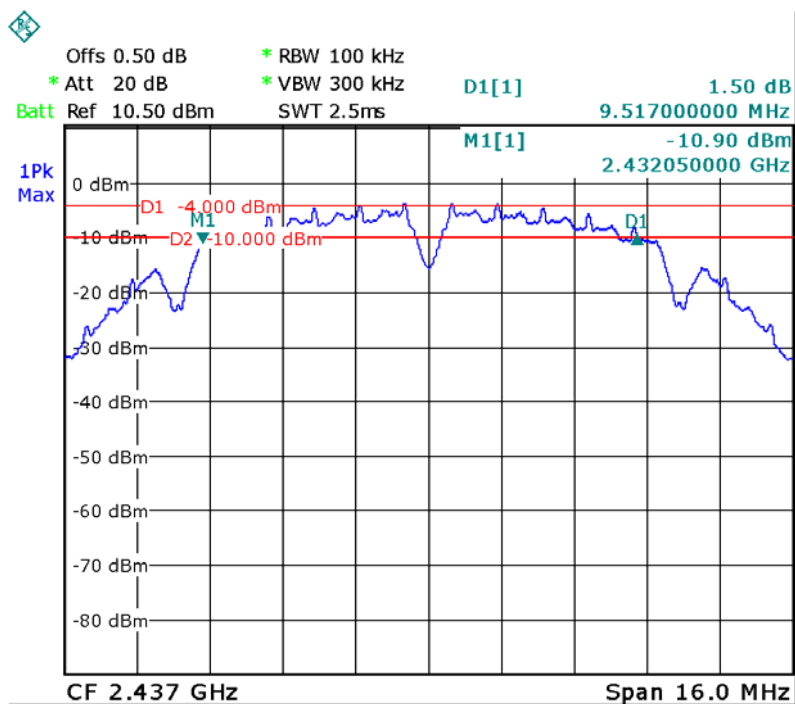
GFSK(BLE) High Channel



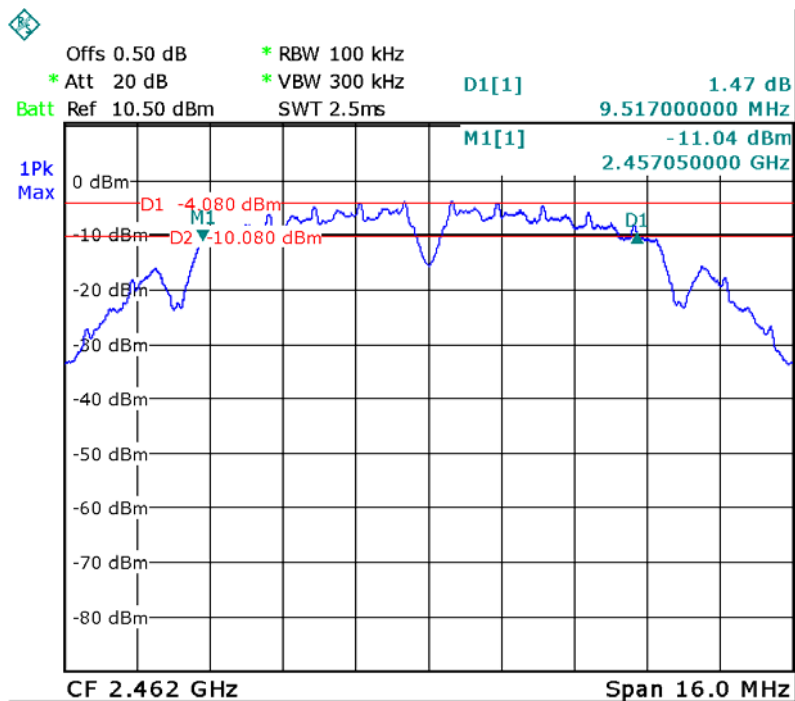
802.11b Low Channel



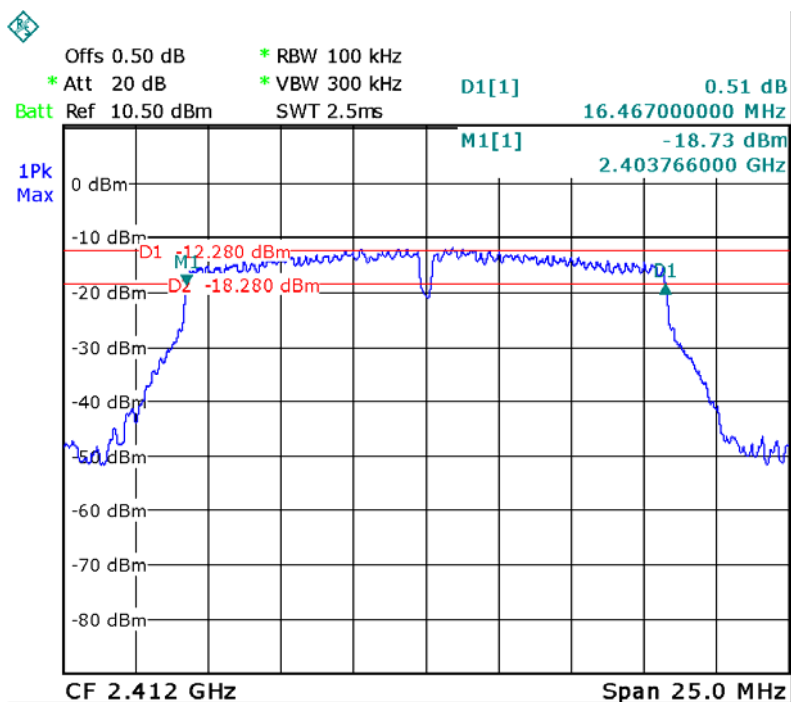
802.11b Middle Channel



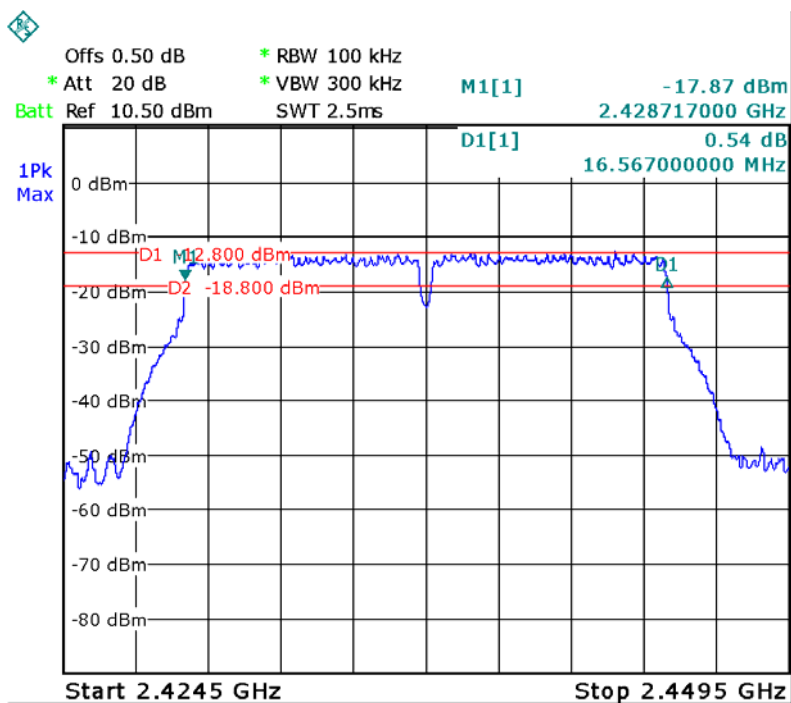
802.11b High Channel



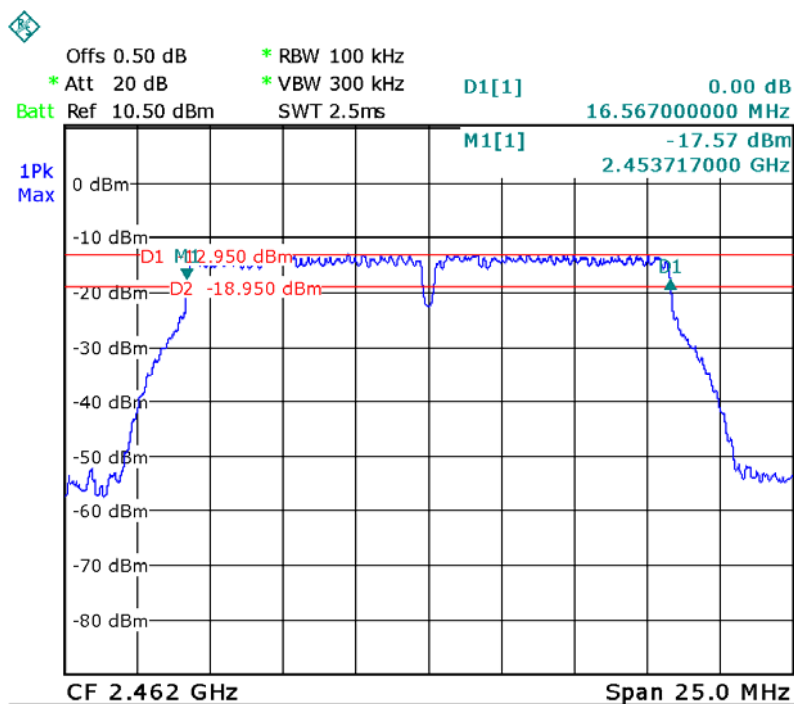
802.11g Low Channel



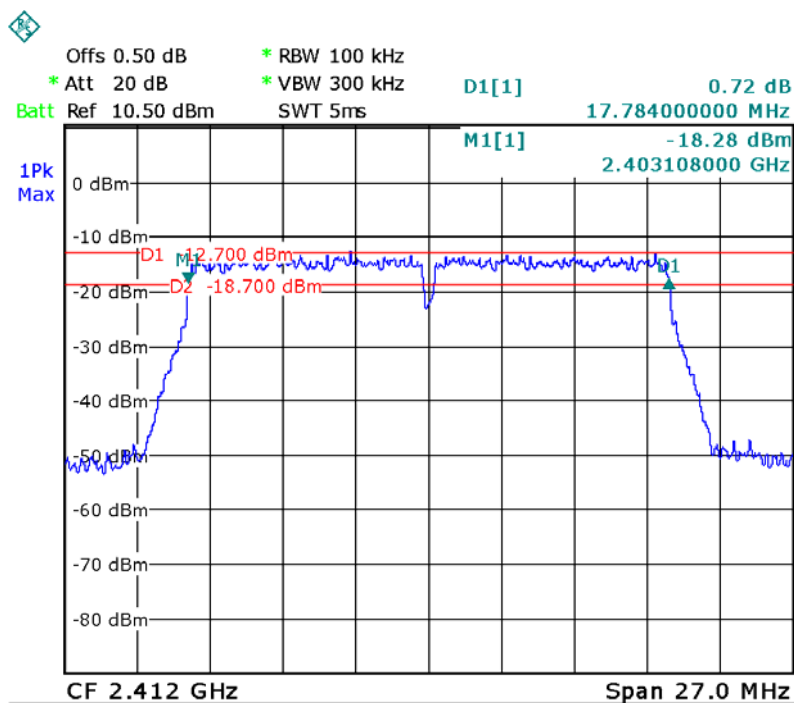
802.11g Middle Channel



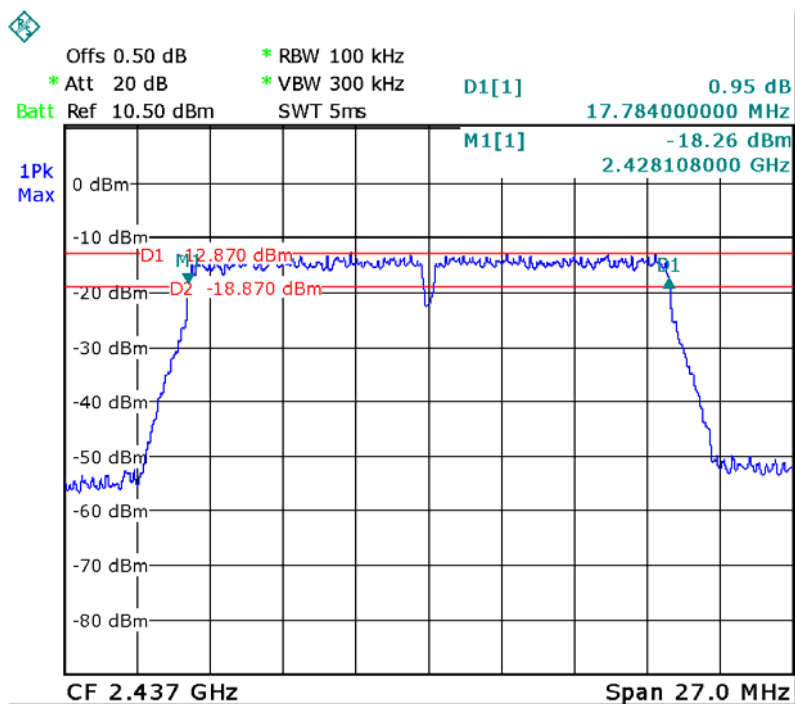
802.11g High Channel



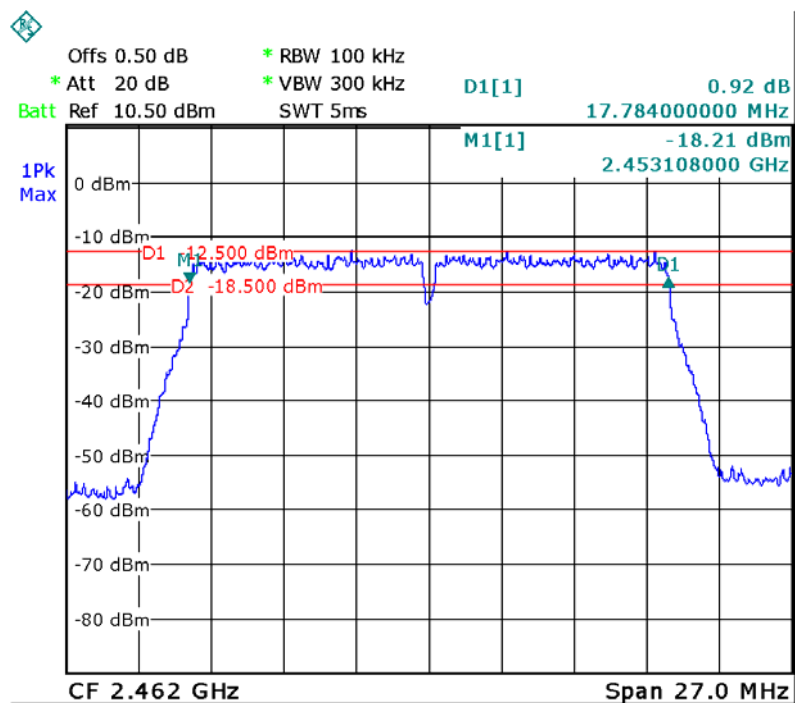
802.11n-HT20 Low Channel



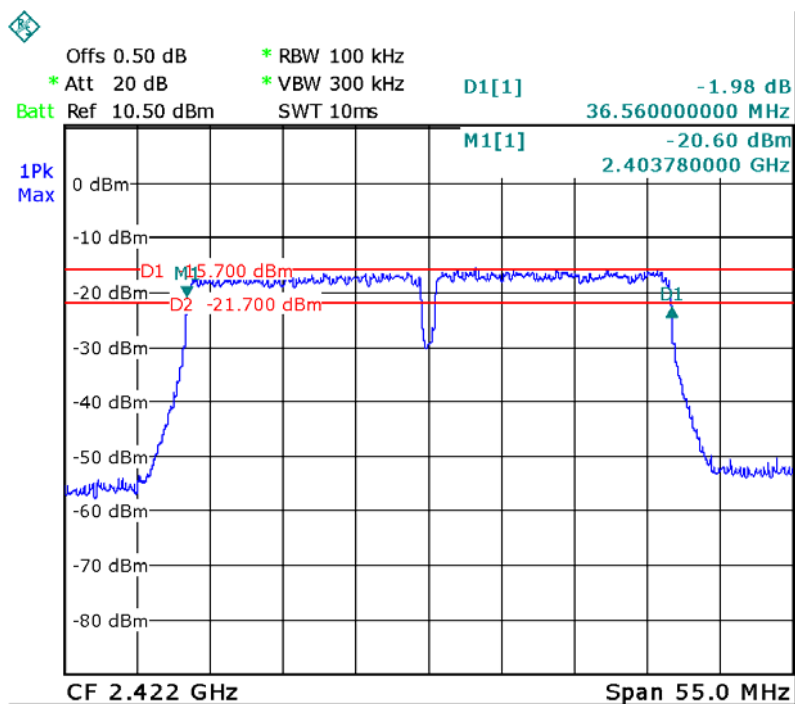
802.11n-HT20 Middle Channel



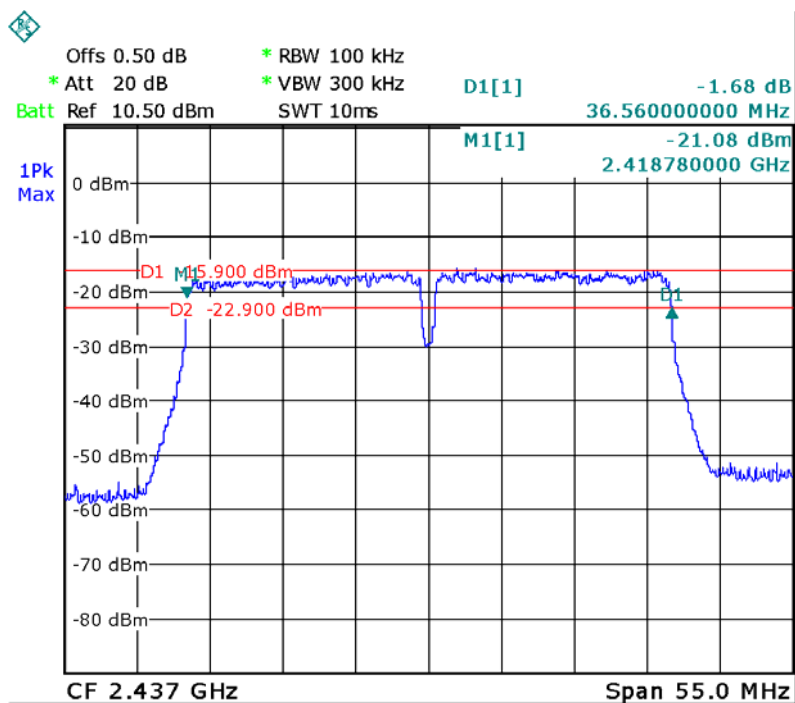
802.11n-HT20 High Channel



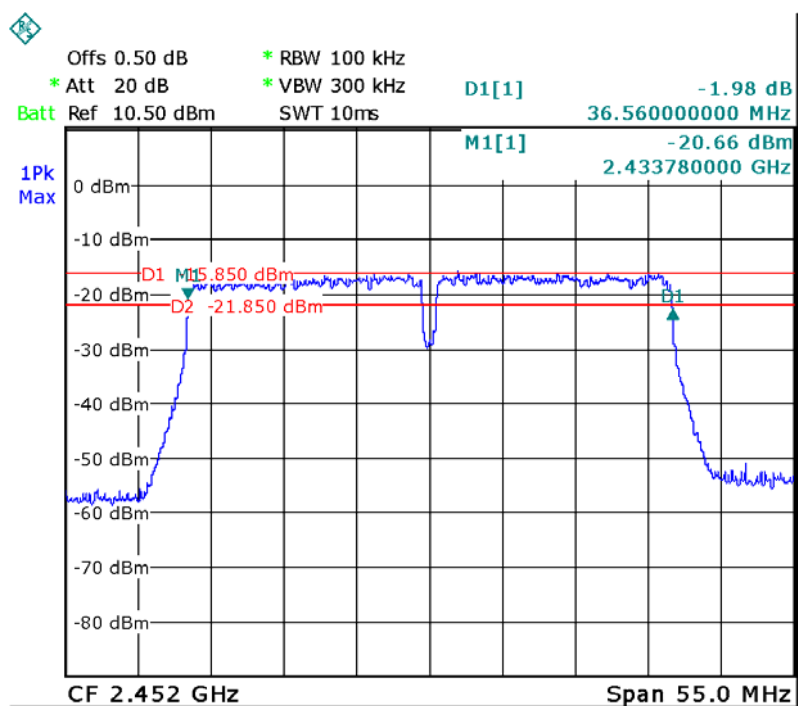
802.11n-HT40 Low Channel



802.11n-HT40 Middle Channel



802.11n-HT40 High Channel



9 Maximum Peak Output Power

Test Requirement	: FCC CFR47 Part 15 Section 15.247
Test Method	: ANSI C63.10:2013, KDB 558074 D01 DTS MEAS GUIDANCE V03R05
Test Limit	: Regulation 15.247 (b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.
Test Mode	: Refer to section 3.3

9.1 Test Procedure

KDB 558074 D01 DTS Meas Guidance v03r05

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 $\geq$ DTS bandwidth.
- b) Set VBW $\geq$ 3 RBW.
- c) Set span $\geq$ 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)

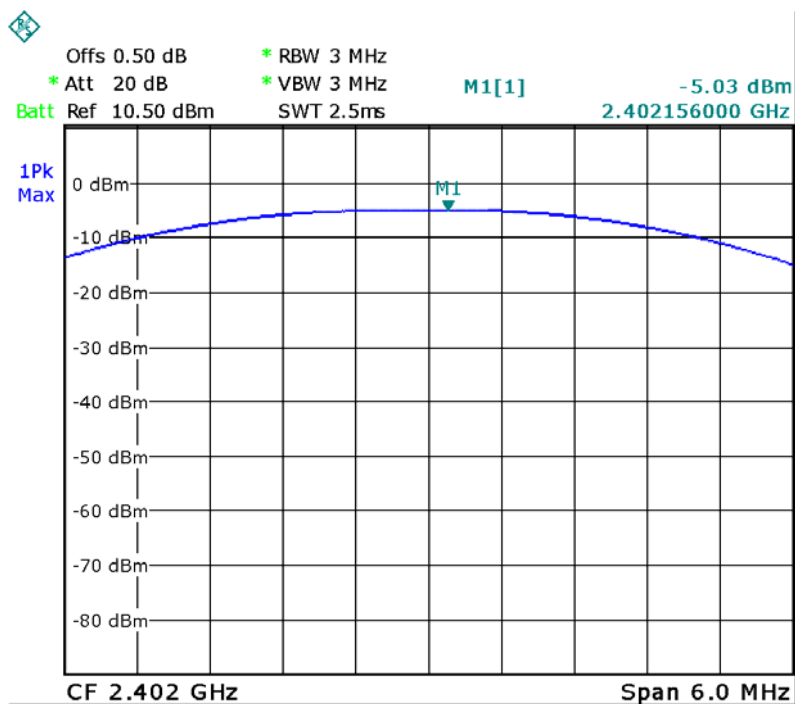
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.



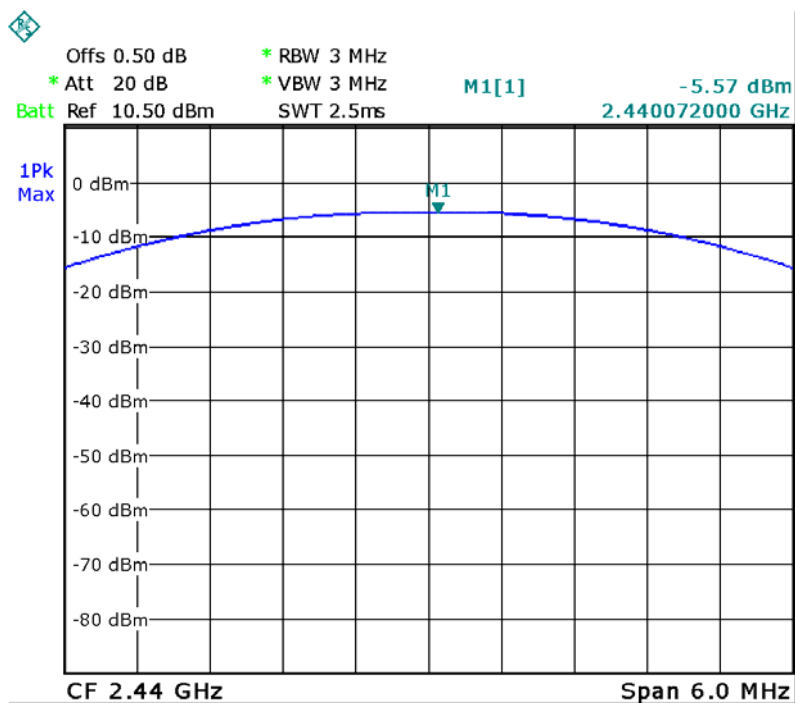
9.2 Test Result

Modulation	Maximum Peak Output Power (dBm)			Limit
	Low Channel	Middle Channel	High Channel	
GFSK(BLE)	-5.03	-5.57	-4.51	1W(30dBm)
802.11b	9.33	9.49	9.31	1W(30dBm)
802.11g	9.26	9.46	9.42	1W(30dBm)
802.11n-HT20	9.15	9.37	9.24	1W(30dBm)
802.11n-HT40	9.16	9.25	9.18	1W(30dBm)

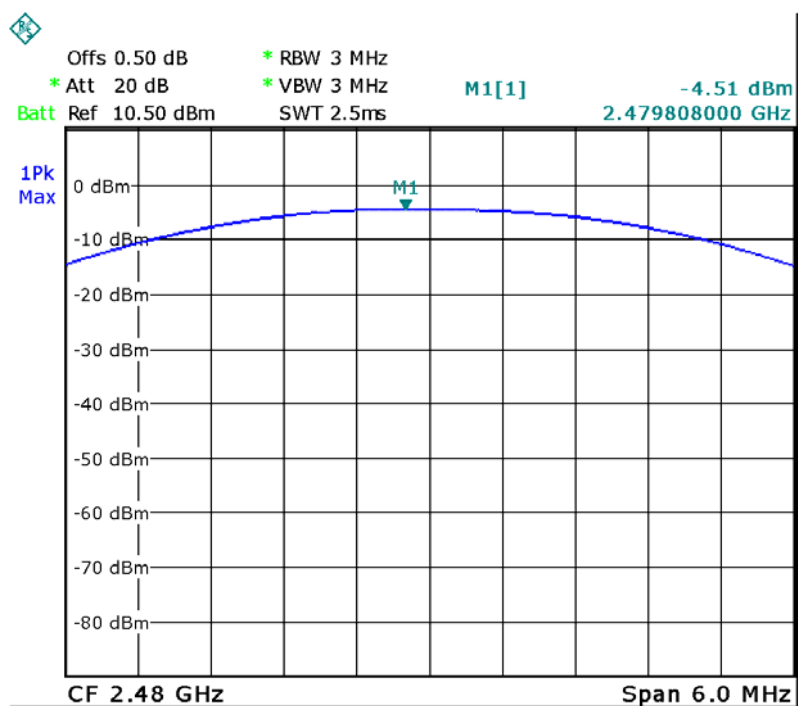
GFSK(BLE) Low Channel



GFSK(BLE) Middle Channel



GFSK(BLE) High Channel



10 Power Spectral density

Test Requirement	: FCC CFR47 Part 15 Section 15.247
Test Method	: ANSI C63.10:2013, KDB 558074 D01 DTS MEAS GUIDANCE V03R05
Test Limit	: Regulation 15.247(f) The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
Test Mode	: Refer to section 3.3

10.1 Test Procedure

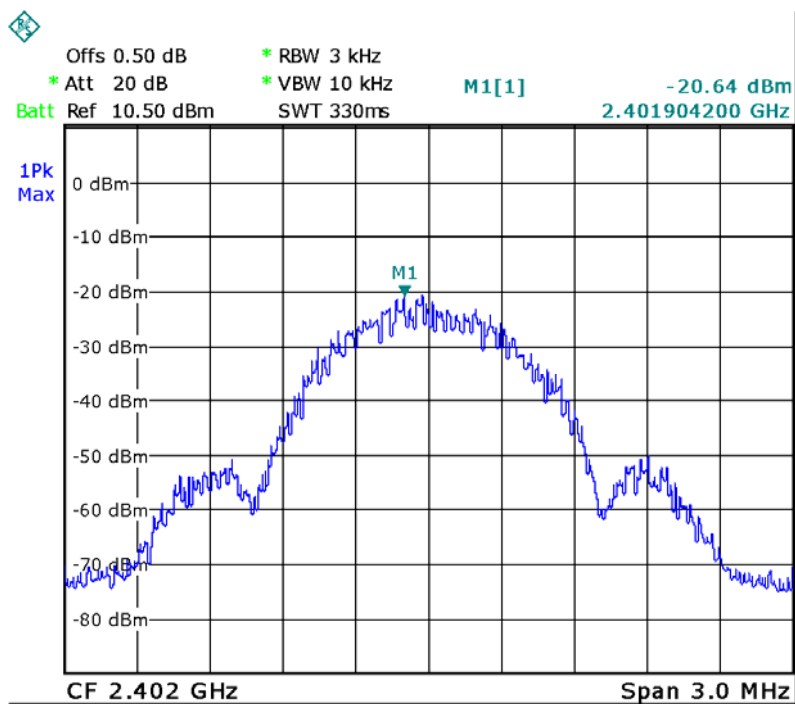
KDB 558074 D01 DTS Meas Guidance v03r05

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.

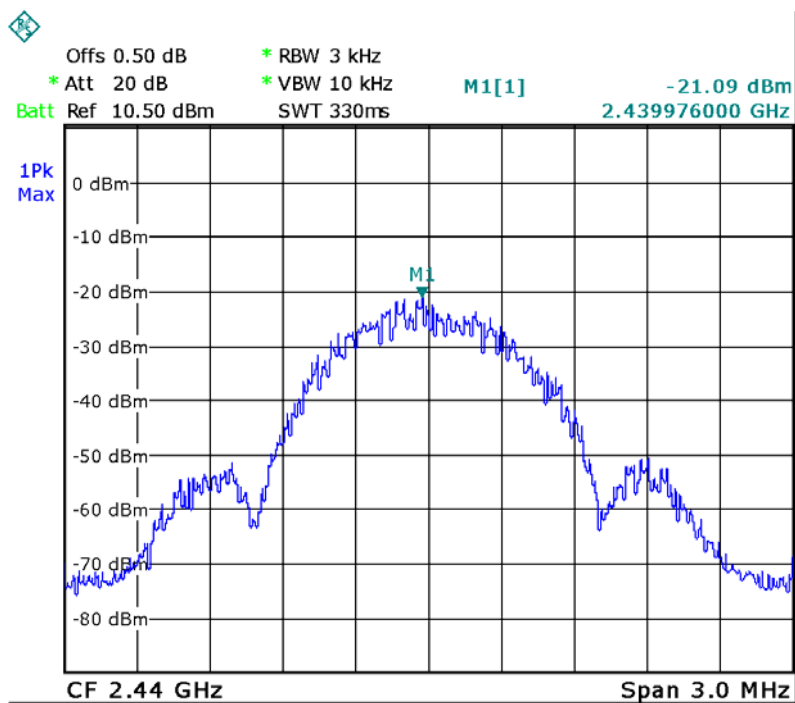
10.2 Test Result

Modulation	Power Spectral density (dBm/3kHz)			Limit
	Low Channel	Middle Channel	High Channel	
GFSK(BLE)	-20.64	-21.09	-20.08	8dBm/3kHz
802.11b	-22.32	-22.07	-22.27	8dBm/3kHz
802.11g	-25.75	-27.11	-27.33	8dBm/3kHz
802.11n-HT20	-26.64	-26.86	-26.07	8dBm/3kHz
802.11n-HT40	-28.91	-27.86	-28.30	8dBm/3kHz

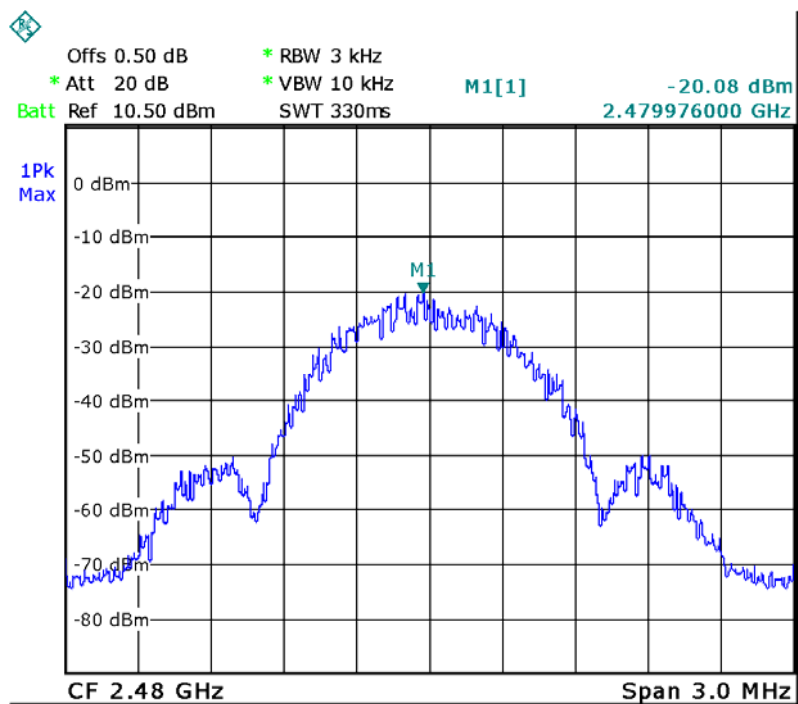
GFSK(BLE) Low Channel



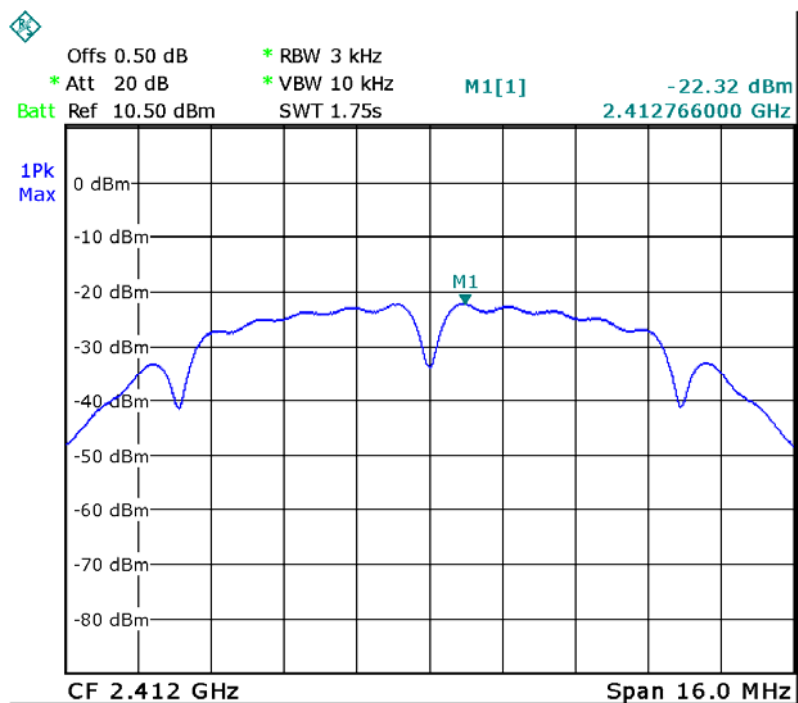
GFSK(BLE) Middle Channel



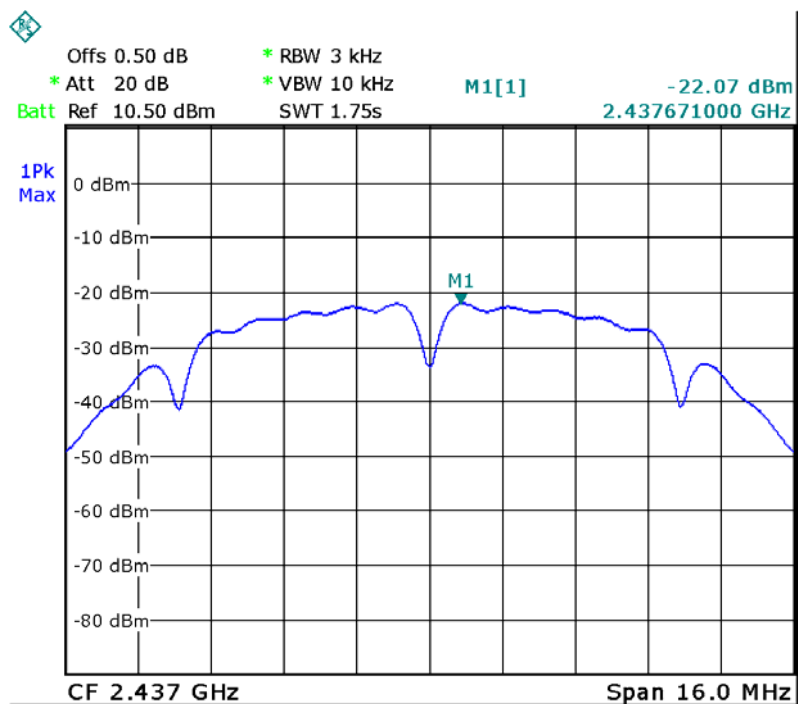
GFSK(BLE) High Channel



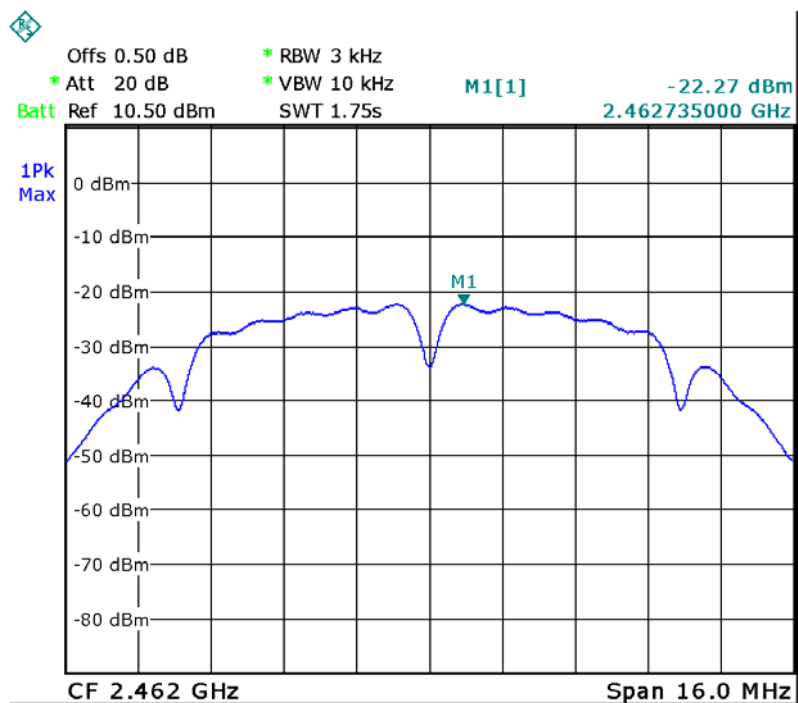
802.11b Low Channel



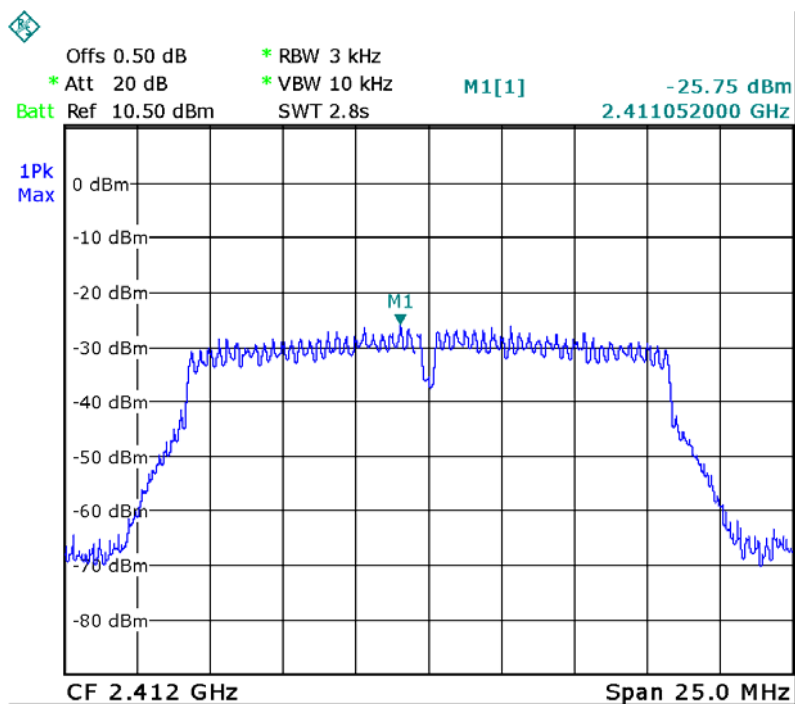
802.11b Middle Channel



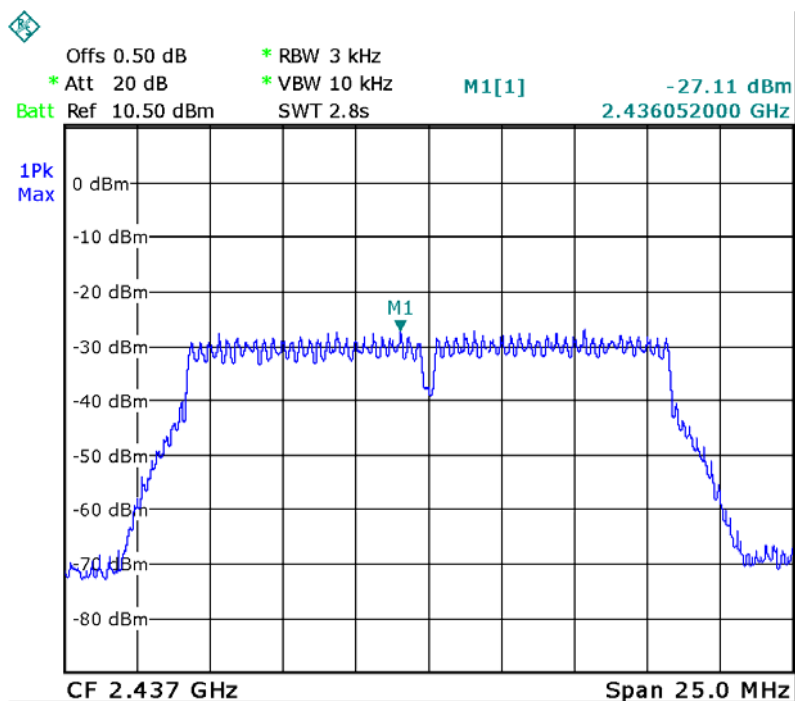
802.11b High Channel



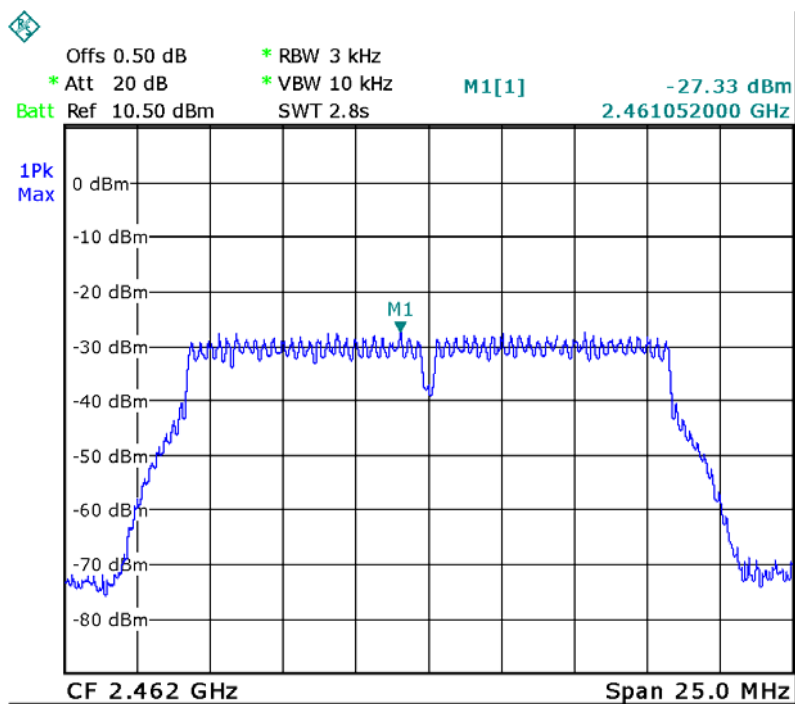
802.11g Low Channel



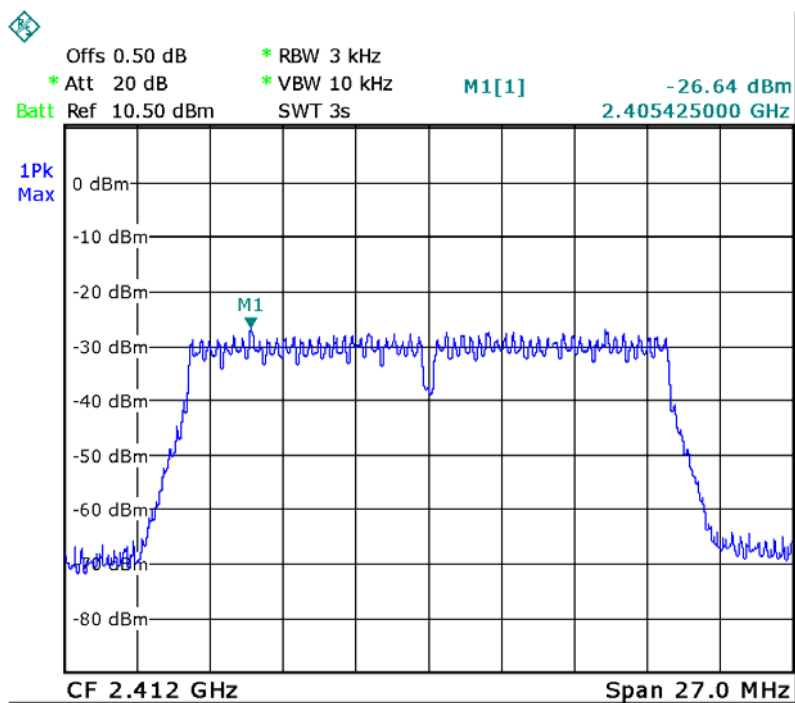
802.11g Middle Channel



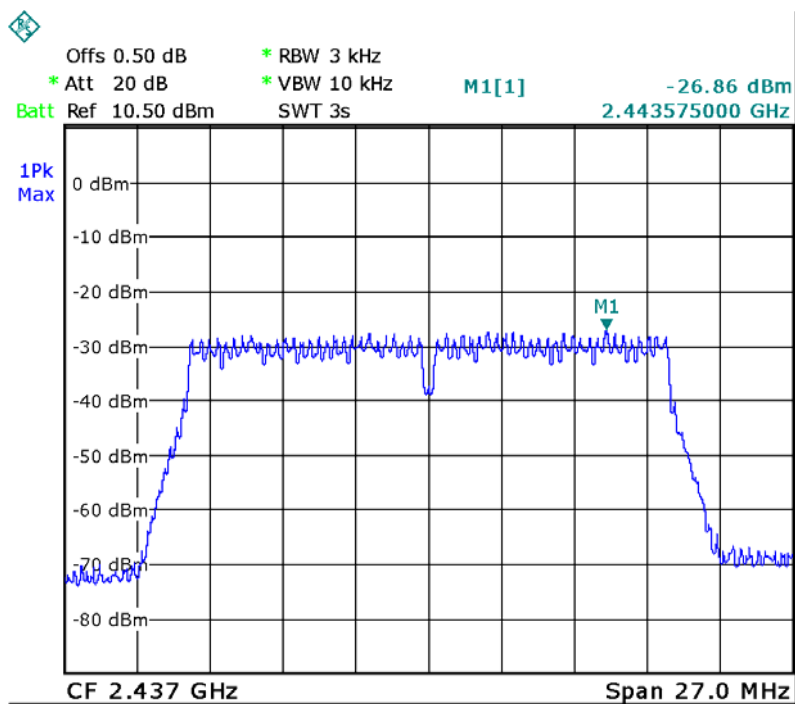
802.11g High Channel



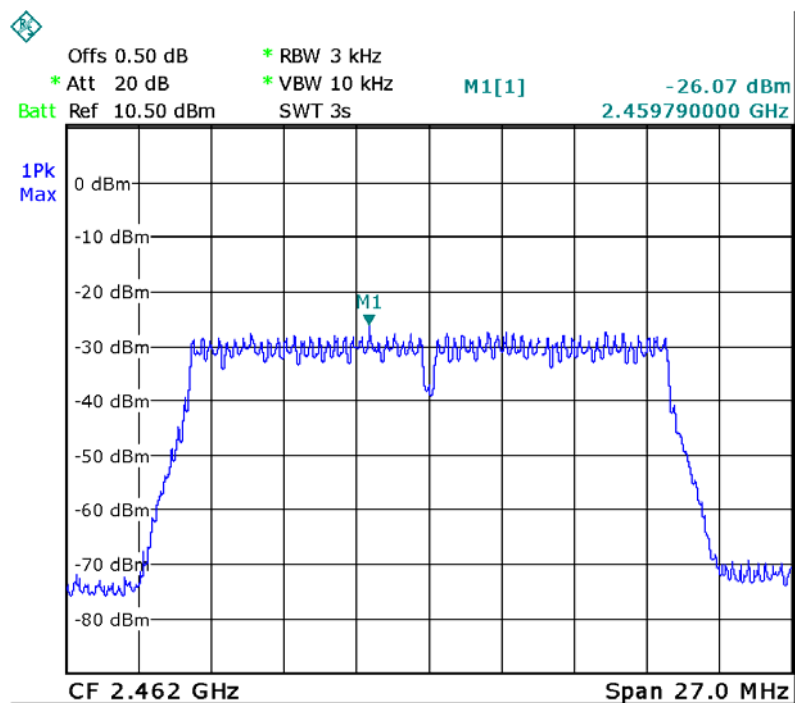
802.11n-HT20 Low Channel



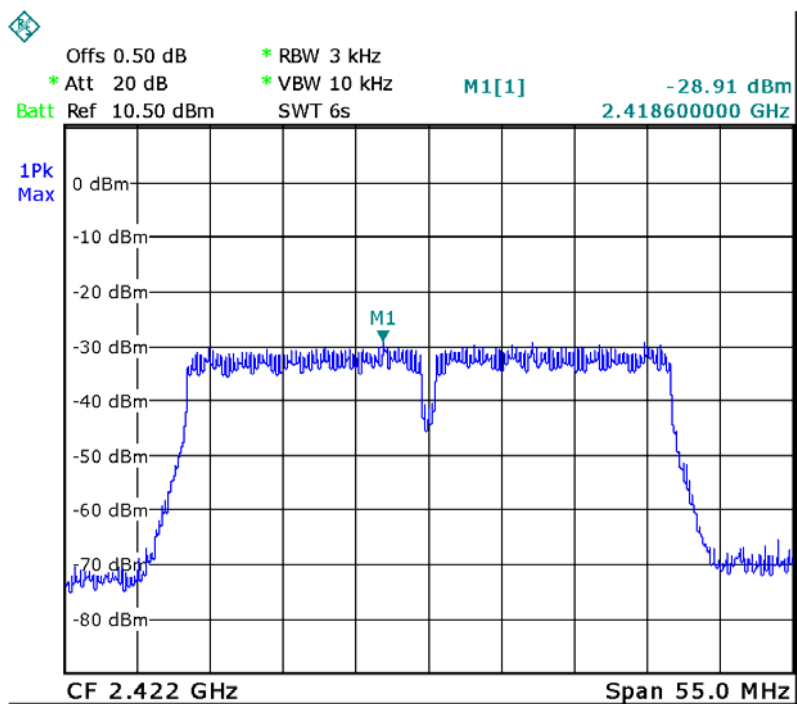
802.11n-HT20 Middle Channel



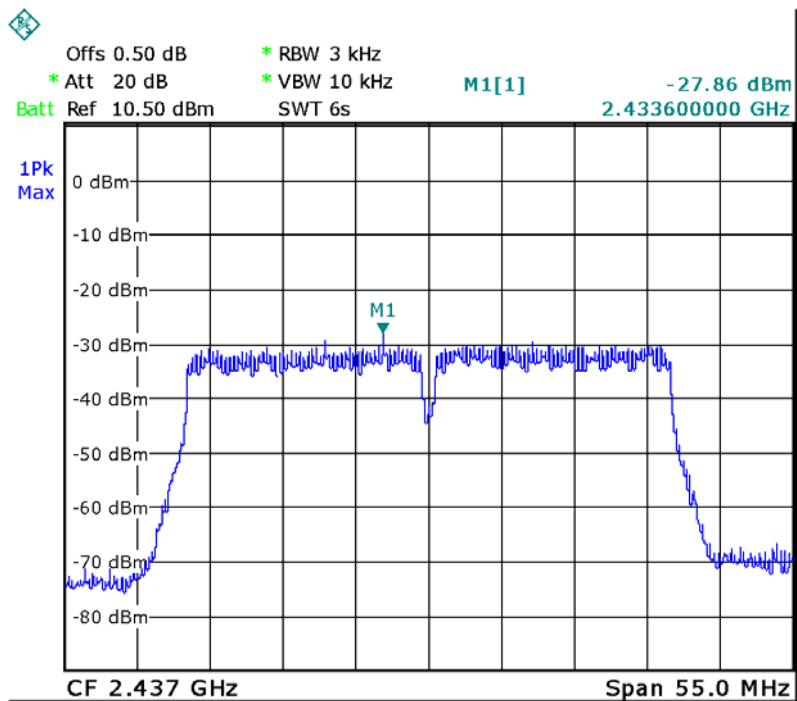
802.11n-HT20 High Channel



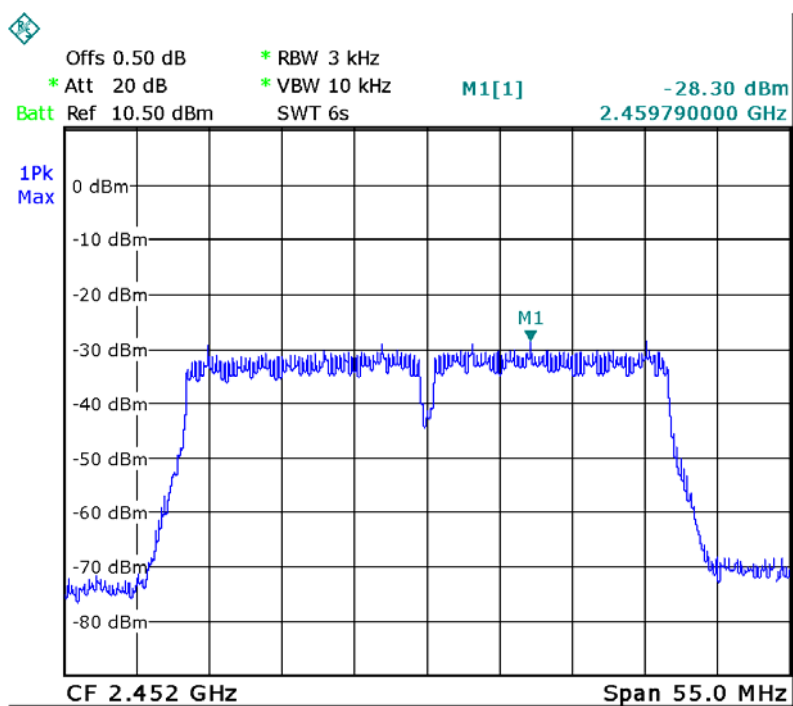
802.11n-HT40 Low Channel



802.11n-HT40 Middle Channel



802.11n-HT40 High Channel





11 Antenna Requirement

According to the FCC part15.203, a transmitter can only be sold or operated with antennas with which it was approved. This product has a Monopole antenna , this antenna is fixed and cannot be removed and changed. it meet the requirement of this section.

***** THE END REPORT*****