

Report No.: ZR/2019/A000303-01  
 Rev.: 01  
 Page: 1 of 110

# TEST REPORT

**Application No.:** ZR/2019/A0003  
**Applicant:** Sony Mobile Communications INC  
**Address of Applicant:** 4-12-3 Higashi-shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan  
**Manufacturer:** Sony Mobile Communications INC  
**Address of Manufacturer:** 4-12-3 Higashi-shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan  
**EUT Description:** GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC  
**Model No.:** PM-1291-BV  
**Trade Mark:** Sony  
**FCC ID:** PY7-50352P  
**Standards:** FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2019/10/15  
**Date of Test:** 2019/10/16 to 2019/12/20  
 2021/12/20 to 2022/1/10(For Tianjin Dongdian Testing Service Co., Ltd.)  
**Date of Issue:** 2022/5/9

<b>Test Result :</b>	<b>PASS *</b>
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\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Jim Huang



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/4/29		Original
02		2022/5/7		Add Note On Section2
03		2022/5/9		Update Section2

<b>Prepared By</b>	 <hr/> <b>(Wick Feng) / Test Supervisor</b>
<b>Checked By</b>	 <hr/> <b>(Daniel Wang) / Reviewer</b>

This report supersedes our previous report **ZR/2019/A000305**, issued on **2019-12-20**, which is hereby deemed null and void.



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## 2 Test Summary

Test Item	FCC rules No.	Test Method	Test Result	Result	Test Lab <sup>[1]</sup>
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS	--
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS	B
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.4	PASS	B
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.5	Reporting only	A
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.6	PASS	A
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS	A
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.8	PASS	A
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS	B
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.10	PASS	B

**Note<sup>[1]</sup>:**

Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Lab B Tianjin Dongdian Testing Service Co., Ltd.

Test data from lab A is from the original version of this report with measurements made from 2019/10/16 to 2019/12/20. The measurement data for Radiated Emissions, Restricted bands and AC Power line Conducted Emissions is from lab B and was taken from 2021/12/20 to 2022/1/10. This report also includes power verification measurements performed at lab B (refer to section 4.4) to confirm that devices tested at lab B were operating within the expected range of output powers. Refer to section 2 for full details.



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### 3 General Information

#### 3.1 Details of Client

Applicant:	Sony Mobile Communications INC
Address of Applicant:	4-12-3 Higashi-shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan
Manufacturer:	Sony Mobile Communications INC
Address of Manufacturer:	4-12-3 Higashi-shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan

#### 3.2 Test Location

<b>Lab A:</b>	
Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Adam Liang
<b>Lab B:</b>	
Company:	Tianjin Dongdian Testing Service Co., Ltd.
Address:	Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park, Development Area, Tianjin, China.
Tel:	+86-22-58038033
E-mail:	ddt@dgdtd.com, <a href="http://www.ddttest.com">http://www.ddttest.com</a>
Test engineer:	Suuny Zhang



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### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

<b>Lab A:</b>
<ul style="list-style-type: none"> <li>• <b>A2LA (Certificate No. 3816.01)</b>            SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.</li> <li>• <b>VCCI</b>            The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.</li> <li>• <b>Innovation, Science and Economic Development Canada</b>            SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.            CAB identifier: CN0006.            IC#: 4620C.</li> </ul>
<b>Lab B:</b>
<p>Tianjin Dongdian Testing Service Co., Ltd.</p> <p>Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China., 300385</p> <p>Tel: +86-22-58038033, <a href="http://www.ddttest.com">http://www.ddttest.com</a>, Email: <a href="mailto:ddt@dgddt.com">ddt@dgddt.com</a></p> <p><b>NVLAP</b> (National Voluntary Laboratory Accreditation Program) CODE: 500036-0</p> <p><b>CNAS</b> (China National Accreditation Service for Conformity Assessment) CODE: L13402</p> <p><b>FCC</b> Designation Number: CN5004; FCC Test Firm Registration Number: 368676</p> <p><b>ISED</b> (Innovation, Science and Economic Development Canada) Company Number: 27768</p> <p>Conformity Assessment Body Identifier: CN0125</p> <p><b>VCCI</b> Facility Registration Number: C-20089, T-20093, R-20125, G-20122</p>



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### 3.4 General Description of EUT

EUT Description:	GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC		
Model No.:	PM-1291-BV		
Trade Mark:	Sony		
Hardware Version:	A		
Software Version:	0.96		
Operation Frequency:	2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 2 \text{ MHz}$ , where: - $f_c$ = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.		
Bluetooth version:	Bluetooth V5.0		
Modulation Type:	GFSK		
Number of Channel:	40		
Rates Type*:	<input checked="" type="checkbox"/> Provided by client		
	1M PHY	2M PHY	
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated		
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client		
	-2.33dBi		
RF Cable*:	<input checked="" type="checkbox"/> Provided by client		
	0.5dB(0.6~1GHz)	0.8dB(1.4~2GHz)	1.0dB(2.1~2.7GHz)
	1.5dB(3~4GHz)	1.8dB(4.4~6GHz)	
<p>Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</p> <p>Remark:        As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p>			



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Operation Frequency of each channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

**Remark:**

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz



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### 3.5 Test Environment

Environment Parameter	86-106 kPa Selected Values During Tests	
Relative Humidity	25-75 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	21-25	3.8
Remark: NV: Normal Voltage NT: Normal Temperature		

### 3.6 Description of Support Units

The EUT has been tested as an independent unit.



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(c)
<p>15.203 requirement:          An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement:          The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is integrated and no consideration of replacement.          The best case gain of the antenna is -2.33dBi.</p>	



## 4.2 AC Power Line Conducted Emissions

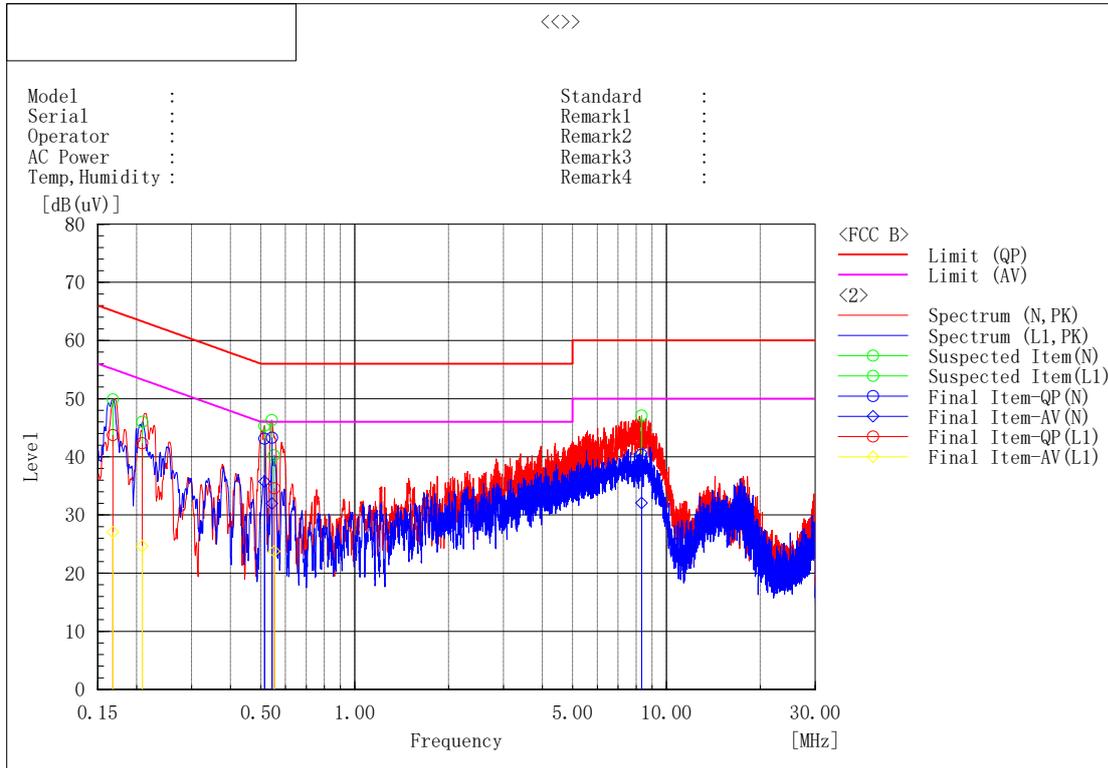
Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	Note 1: * Decreasing linearly with logarithm of frequency. Note 2: The lower limit shall apply at the transition frequencies.		
Test Procedure:	<p>The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.</p> <p>Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.</p> <p>All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.</p> <p>All support equipment power received from a second LISN.</p> <p>Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.</p> <p>The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.</p> <p>During the above scans, the emissions were maximized by cable manipulation.</p> <p>The test mode(s) described in clause 2.4 were scanned during the preliminary test.</p> <p>After the preliminary scan, we found the test mode producing the highest emission level.</p> <p>The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.</p> <p>EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.</p> <p>A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.</p>		



	<p>Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.</p> <p>The test data of the worst-case condition(s) was recorded.</p> <p>The bandwidth of test receiver is set at 9 kHz.</p>
<p>Test Setup:</p>	
<p>Test Mode:</p>	<p>Transmitting with GFSK modulation.          Charge +Transmitting mode.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>
<p>Note:</p>	<p>Note1: All emissions not reported below are too low against the prescribed limits.          Note2: “-----” means Peak detection; “-----” means Average detection.          Note3: According the pre-test, the worst case is transmitting and charging mode.</p>



Test data



Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c. f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.54313	33.6	22.3	9.7	43.3	32.0	56.0	46.0	12.7	14.0
2	0.5142	33.4	26.0	9.7	43.1	35.7	56.0	46.0	12.9	10.3
3	8.32115	30.4	22.1	9.9	40.3	32.0	60.0	50.0	19.7	18.0

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c. f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.16758	34.0	17.3	9.7	43.7	27.0	65.1	55.1	21.4	28.1
2	0.55203	24.9	14.0	9.7	34.6	23.7	56.0	46.0	21.4	22.3
3	0.20839	32.6	14.9	9.7	42.3	24.6	63.3	53.3	21.0	28.7

Note1) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor

Note2) Line = Polarity of input power (Live or Neutral)

N : Abbreviation of Neutral Polarity, L1 : Abbreviation of Live Polarity,

Note3) Factor = LISN Insertion Loss + Cable Loss

Note4) Margin = Limit – Level (Quasi-Peak and/or C/Average)

Note5) C/Average : Abbreviation of CISPR Average



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### 4.3 Duty Cycle

The detailed test data see: **Appendix**



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#### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.1
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test procedure	Connect each EUT's antenna output to power sensor by RF cable and attenuator. Measure the PK output power of each antenna port by power sensor.
Re-Test statement	The EUT is operating at the same power level with the original testing of SGS-CSTC Standards Technical Services, Co., Ltd. Shenzhen Branch.
Test Results:	Pass



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**Test results:**

Remark

	The Original Reports	Re-Test Reports
File name:	test report BLE	DDT-B21122006-1E03
Test location:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	Tianjin Dongdian Testing Service Co., Ltd.

Power:

Mode	Test Channel	The Original Reports Level [dBm]	Re-Test Reports Level [dBm]	Power level
BLE_1M	Lowest	-3.416	-3.25	Default
	Middle	-2.159	-2.09	Default
	Highest	-2.663	-2.72	Default
BLE_2M	Lowest	-3.505	-2.63	Default
	Middle	-2.205	-2.14	Default
	Highest	-2.698	-2.77	Default



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### 4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≥ 500 kHz
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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### 4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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### 4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



### 4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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### 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205			
Test Method:	ANSI C63.10 :2013 Section 11.12			
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)			
Test Frequency:	9kHz ~ 25GHz			
Limit:	(1) FCC 15.205 Restricted frequency band			
	<b>MHz</b>	<b>MHz</b>	<b>MHz</b>	<b>GHz</b>
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
	<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
	2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
	4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
	4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
	6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
	6.31175-6.31225	123-138	2200-2300	14.47-14.5
	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
	8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
	12.57675-12.57725	322-335.4	3600-4400	( <sup>2</sup> )
	13.36-13.41			
	<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. <sup>2</sup> Above 38.6 (2) FCC 15.209 Limit.			
<b>FREQUENCY</b>		<b>DISTANCE</b>	<b>FIELD STRENGTHS LIMIT</b>	
<b>MHz</b>			<b>Meters</b>	<b>μV/m</b>
0.009 ~ 0.490		300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705		30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0		30	30	29.54
30 ~ 88		3	100	40.0
88 ~ 216		3	150	43.5
216 ~ 960		3	200	46.0
960 ~ 1000		3	500	54.0
Above 1000		3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	
Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 -				



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490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

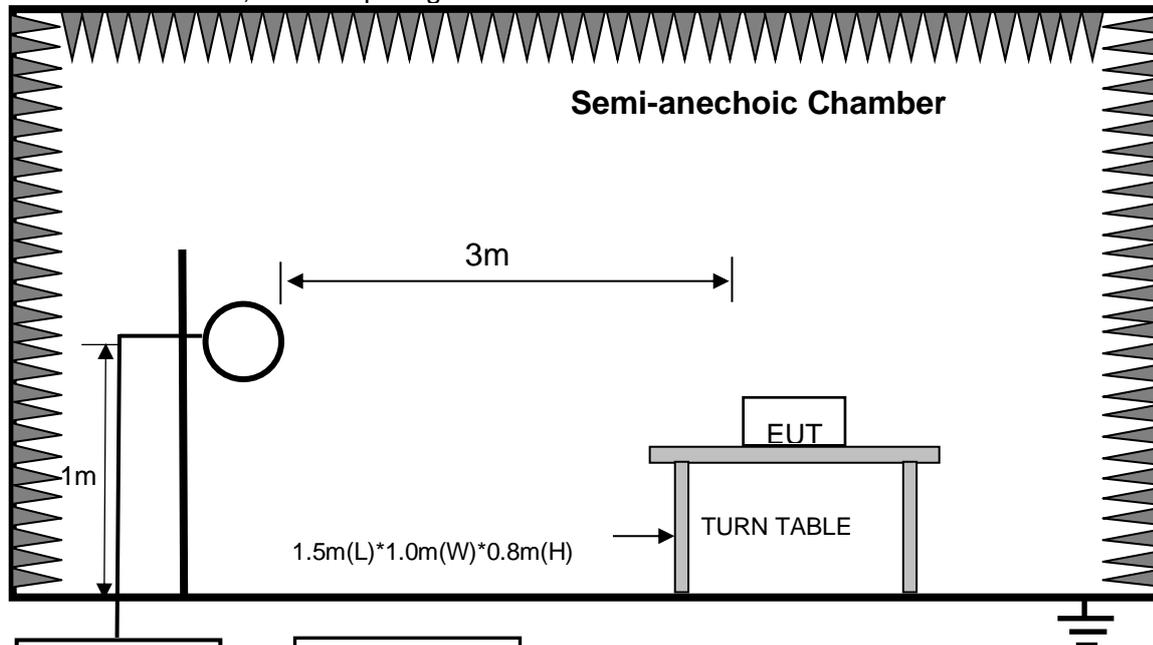
$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{30m}(\text{dBuV/m}) + 40\text{Log}(30m/3m)$$

(3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits.

Test Setup:

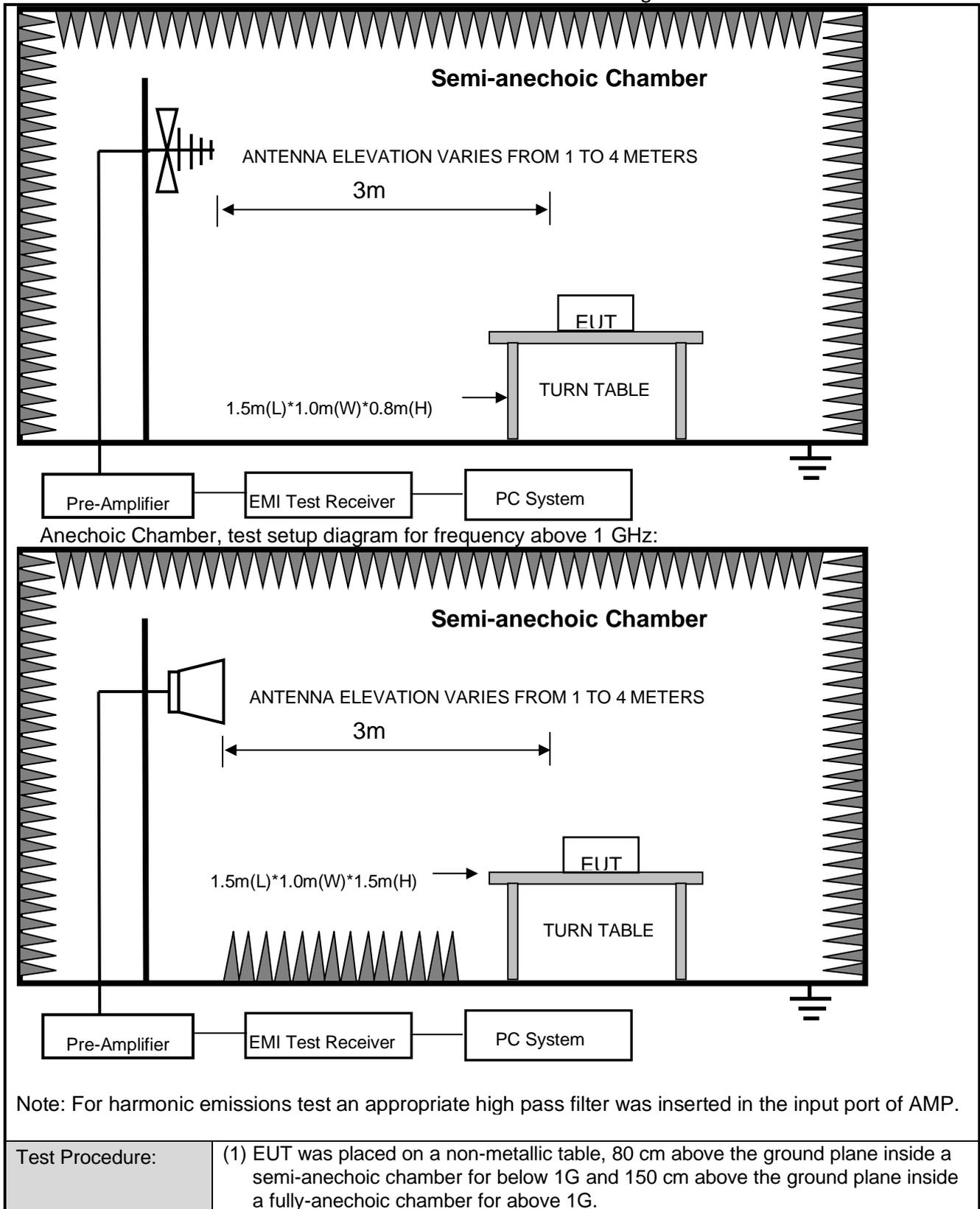
Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



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(2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna (1 GHz - 18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna (18 GHz - 40 GHz)	3 m

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also is positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. For measurement above 30 MHz, the trilog Broadband Antenna or Horn Antenna was located 3 m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz



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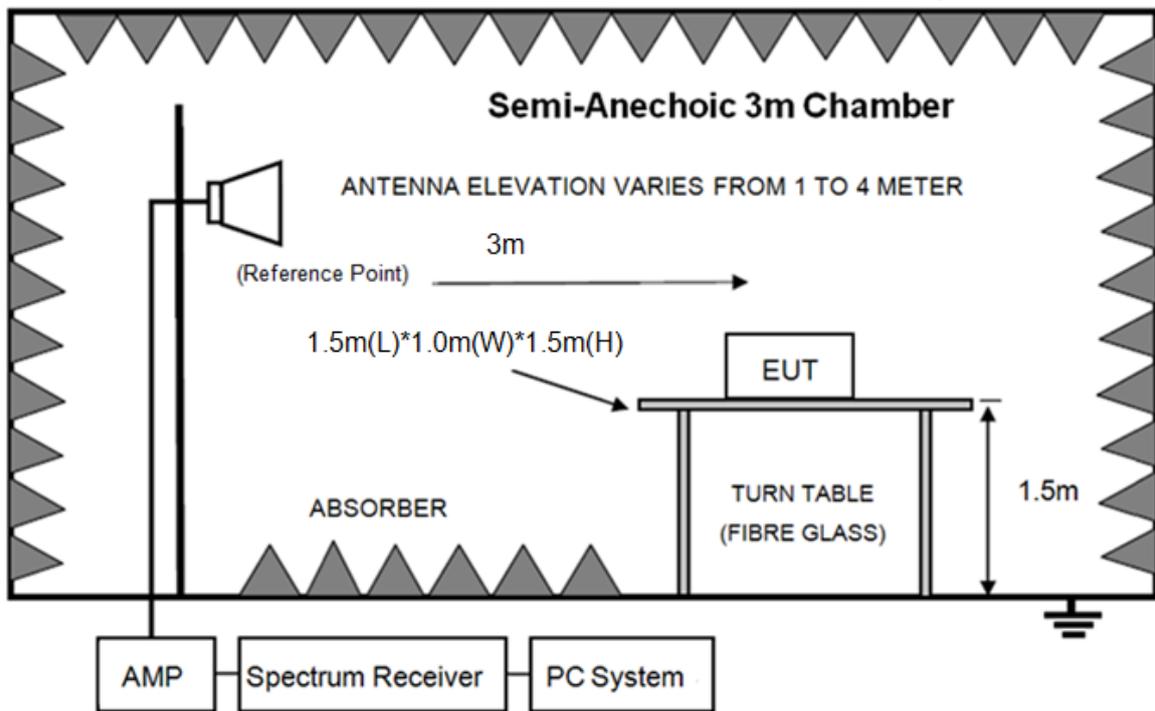
	<table border="1"> <tr> <td>150 kHz - 30 MHz</td> <td>9 kHz</td> </tr> <tr> <td>30 MHz - 1 GHz</td> <td>120 kHz</td> </tr> </table> <p>(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.</p> <p>(8) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.</p>	150 kHz - 30 MHz	9 kHz	30 MHz - 1 GHz	120 kHz
150 kHz - 30 MHz	9 kHz				
30 MHz - 1 GHz	120 kHz				
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.				
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.				
Instruments Used:	Refer to section 6 for details				
Test Results:	Pass				
Note:	<p>All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits.</p> <p>Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.</p> <p>Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in BLE transmitting and charging mode.</p> <p>Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.</p>				
The detailed test data see: <b>Appendix</b>					



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**4.10 Restricted bands around fundamental frequency**

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205
Test Method:	ANSI C63.10: 2013 Section 11.12
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Limit:	All restriction band should comply with 15.209, other emission should be at least 20 dB below the fundamental.
Test Setup:	



Test Procedure:	Same with clause 10.3 except change investigated frequency range from 2310 MHz to 2410 MHz and 2475 MHz to 2550 MHz. Remark: All restriction band have been tested, and only the worst case is shown in report.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass

The detailed test data see: **Appendix**



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## 5 Measurement Uncertainty (95% confidence levels, k=2)

### Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB

### Lab B:

Test Item	Uncertainty
Uncertainty for Radiation Emission Test (30 MHz - 1 GHz)	2.72 dB (Antenna Polarize: V)
	2.72 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission Test (1 GHz - 40 GHz)	2.74 dB (1 - 6 GHz)
	2.72 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power Line Conduction Emission Test	3.40 dB (150 kHz - 30 MHz)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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## 6 Equipment List

### Lab A:

RF conducted					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/4/9	2020/4/8
Signal Analyzer	Agilent	N9020A	W025-01	2019/6/25	2020/6/24
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/13
Humidity/ Temperature Indicator	MingGao	TH101B	W006-05	2019/6/27	2020/6/26



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**Lab B:**

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<b>RF Connected Test (MWRFtest system)</b>					
Microwave Signal Generator	R&S	SMF100A	101396	2021/05/25	1 Year
MXG Vector Signal Generator	Agilent	N5182A	MY50143288	2021/03/08	1 Year
EMI Test Receiver	R&S	ESU26	100243	2021/03/03	1 Year
Wideband Radio Communication Tester	R&S	CMW500	158800	2021/05/14	1 Year
Power Detector	MWRFtest	MW100-PSB	MW201203008	2021/03/31	1 Year
DC Power Supply	inSTEK	PSP-2010	EH131319	2021/02/27	1 Year
Test Software	MWRFtest	MTS8310	V03	N/A	N/A
<b>Radiated Emission -10m EMI Chamber</b>					
EXA Signal Analyzer	Keysight	N9010A	MY53281492	2021/03/31	1 Year
Active Loop Antenna	R&S	HFH2-Z2	100269	2021/05/08	1 Year
Double-Ridged Guide Horn Antenna	ETS-LINDGREN	3115	00102808	2021/03/16	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	2021/04/21	1 Year
Broadband Horn Antenna	TESEQ	BHA 9118	31754	2021/10/12	1 Year
Low noise amplifier	MITEQ	TPA0118-36	0914	2021/02/03	1 Year
EMI Test Receiver	R&S	ESCI	101024	2021/03/03	1 Year
EMI Test Receiver	R&S	ESCI	101030	2021/05/15	1 Year
Bilog Antenna	TESEQ	CBL6112D	29068	2020/10/12	2 Year
Bilog Antenna	TESEQ	CBL6112D	29069	2020/10/12	2 Year
Amplifier	Sonoma	310N	300913	2021/03/03	1 Year
Amplifier	Sonoma	310N	300914	2021/03/03	1 Year
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector1	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector2	N/A	N/A
Test software	TOYO	EP5/RSE	Ver 1.9.1	N/A	N/A
Test software	Audix	E3	V 6.11111b	N/A	N/A
<b>Power Line Conducted Emissions Test</b>					
Test Receiver	R&S	ESCI	101397	2021/03/03	1 Year
LISN	R&S	ENV216	101122	2021/03/31	1 Year
Test software	TOYO	EP5/CE	V 5.4.40	N/A	N/A



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## 7 Photographs – Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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# Appendix



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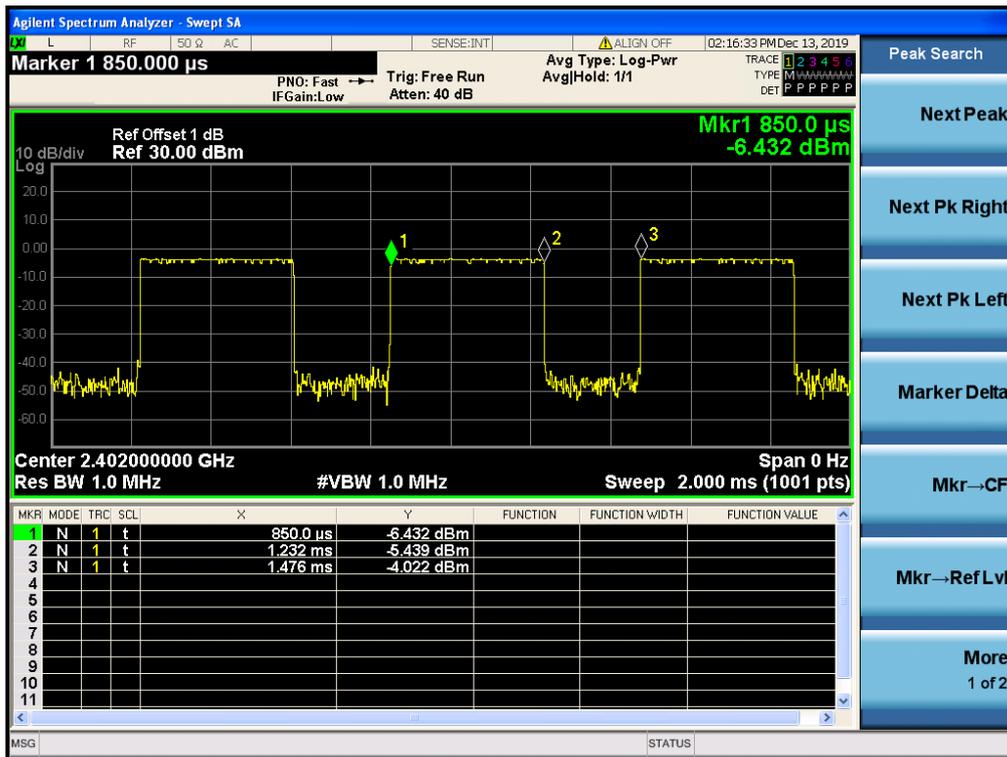
## Duty Cycle

### Test Results

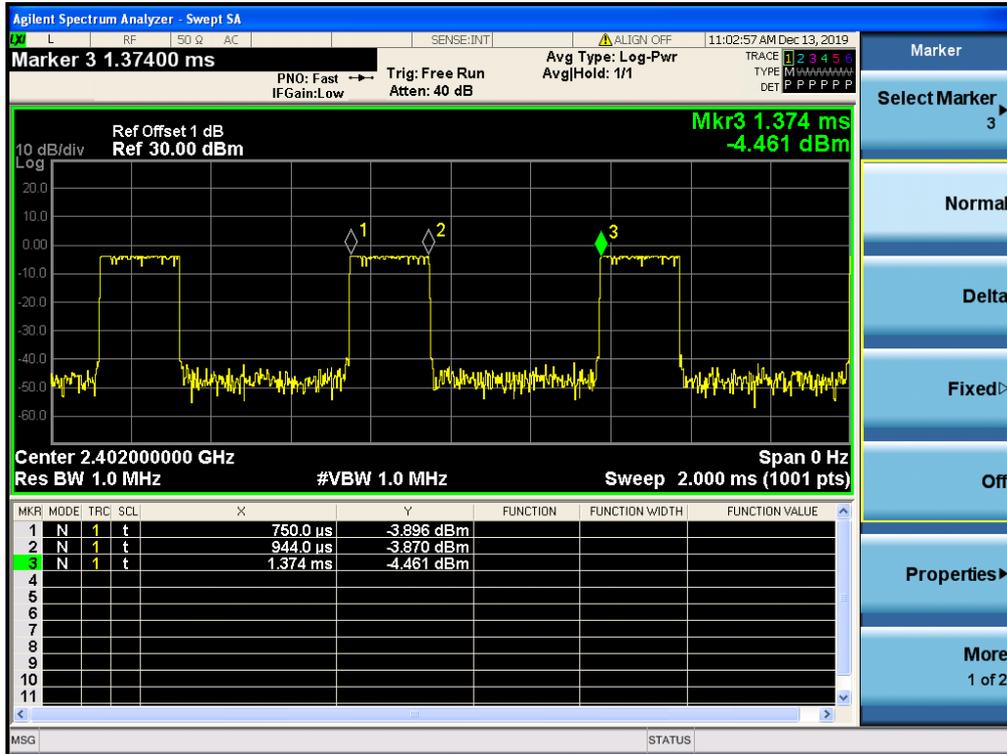
Test Mode	TX Freq. [MHz]	Duty cycle [%]
BLE 1M	Ant 1: CH1	61.02
BLE 2M	Ant 1: CH1	31.09

### Test Plots

#### 1M\_ANT1



2M\_ANT1



**DTS (6 dB) Bandwidth & 99% Occupied Bandwidth**

**Test Results**

Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK 1M	Lowest	0.939	0.650	≥500	Pass
	Middle	0.940	0.648	≥500	Pass
	Highest	0.939	0.650	≥500	Pass

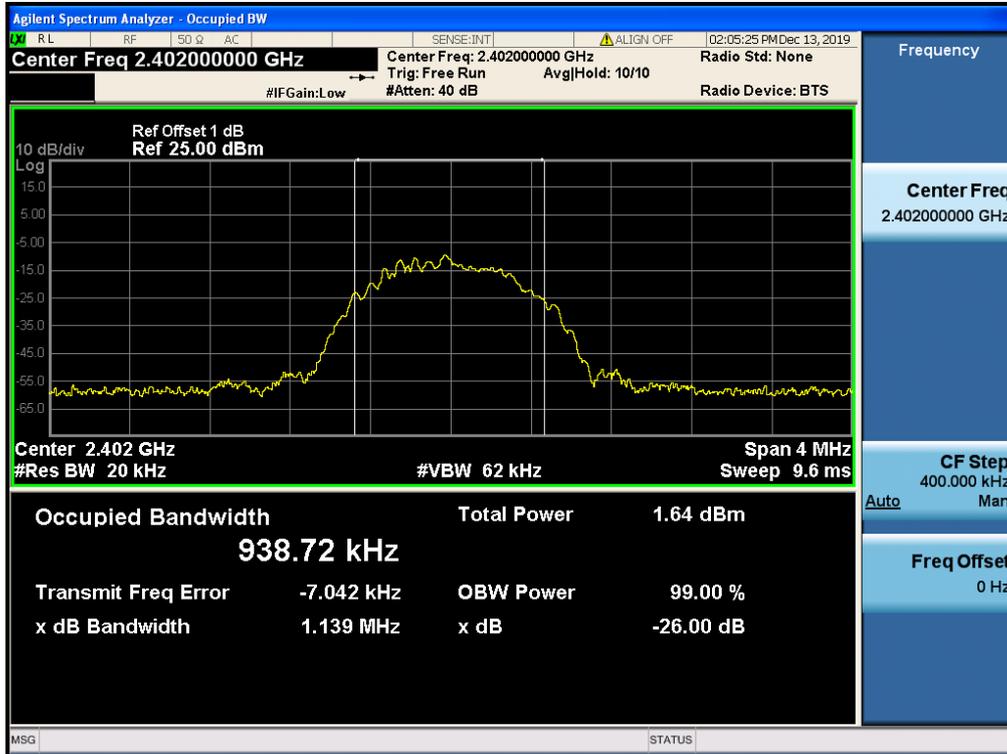
Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK 2M,	Lowest	1.882	1.105	≥500	Pass
	Middle	1.889	1.114	≥500	Pass
	Highest	1.887	1.107	≥500	Pass



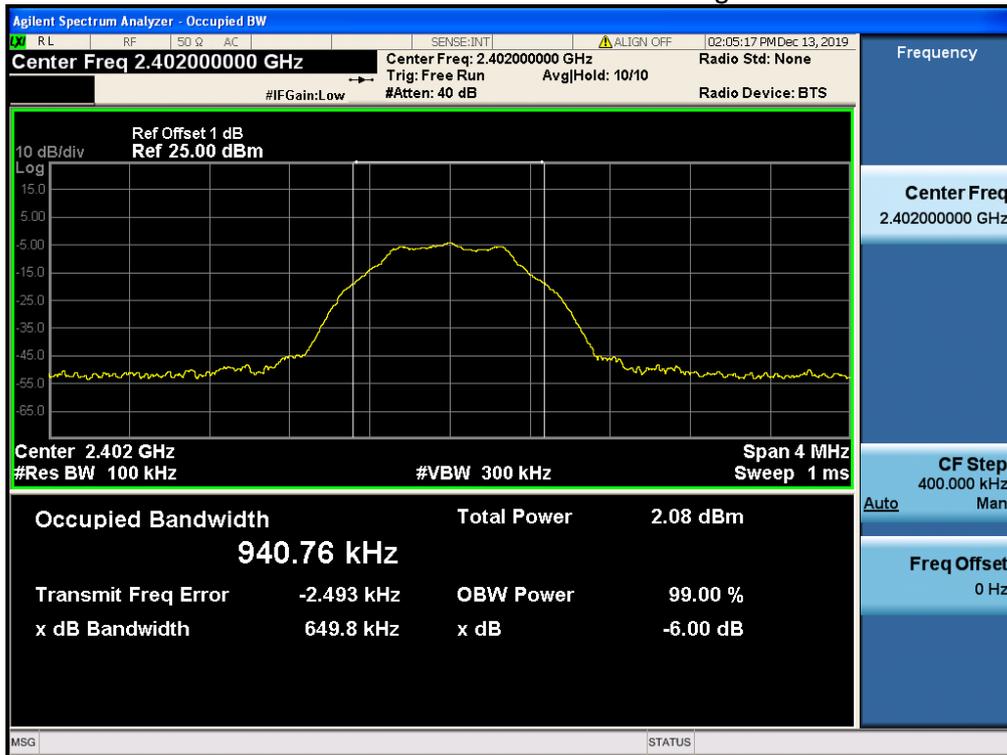
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**Test plots**

**GFSK 1M\_Lowest Channel**



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### GFSK 1M\_Middle Channel



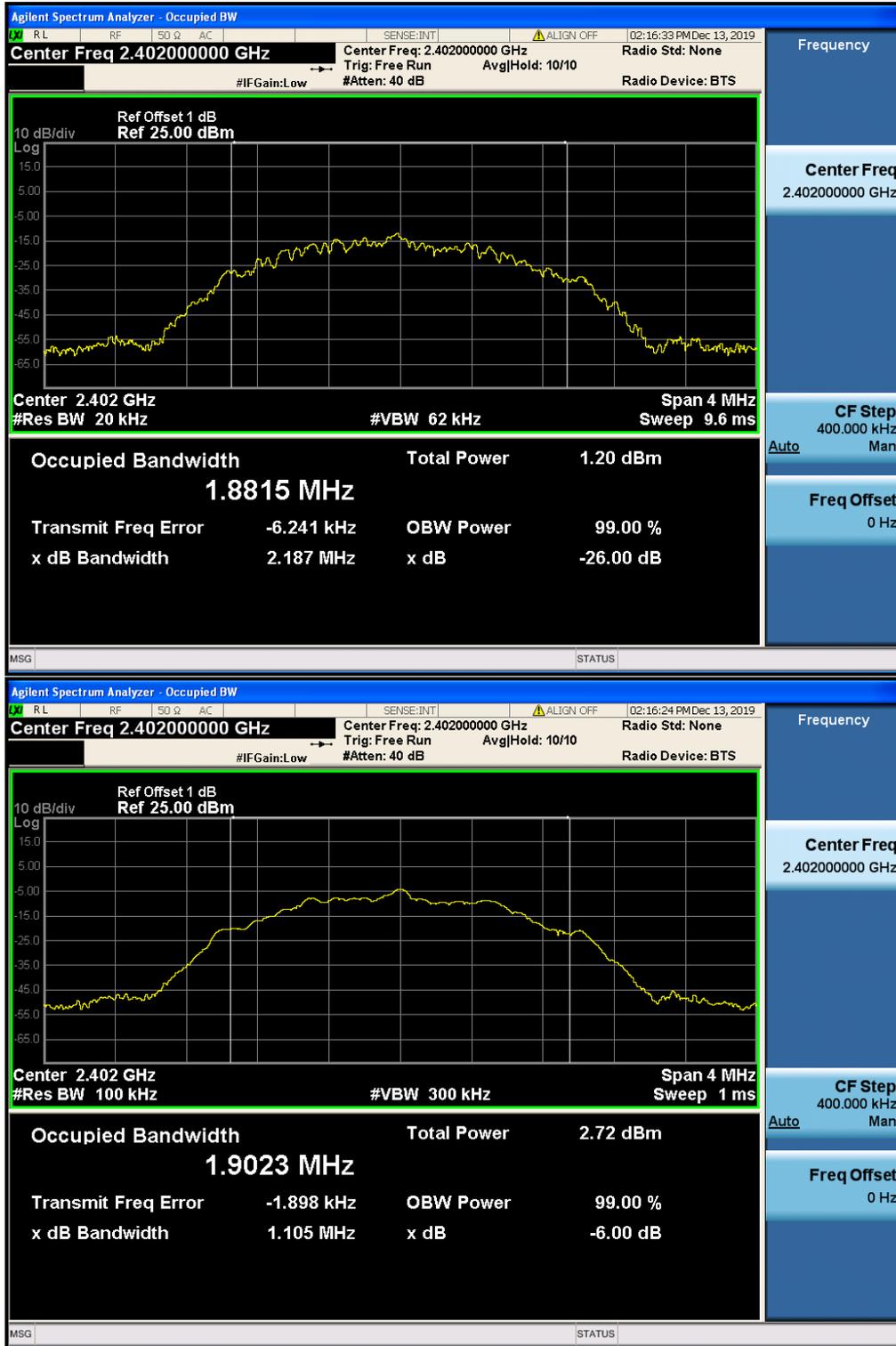
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### GFSK 1M\_Highest Channel



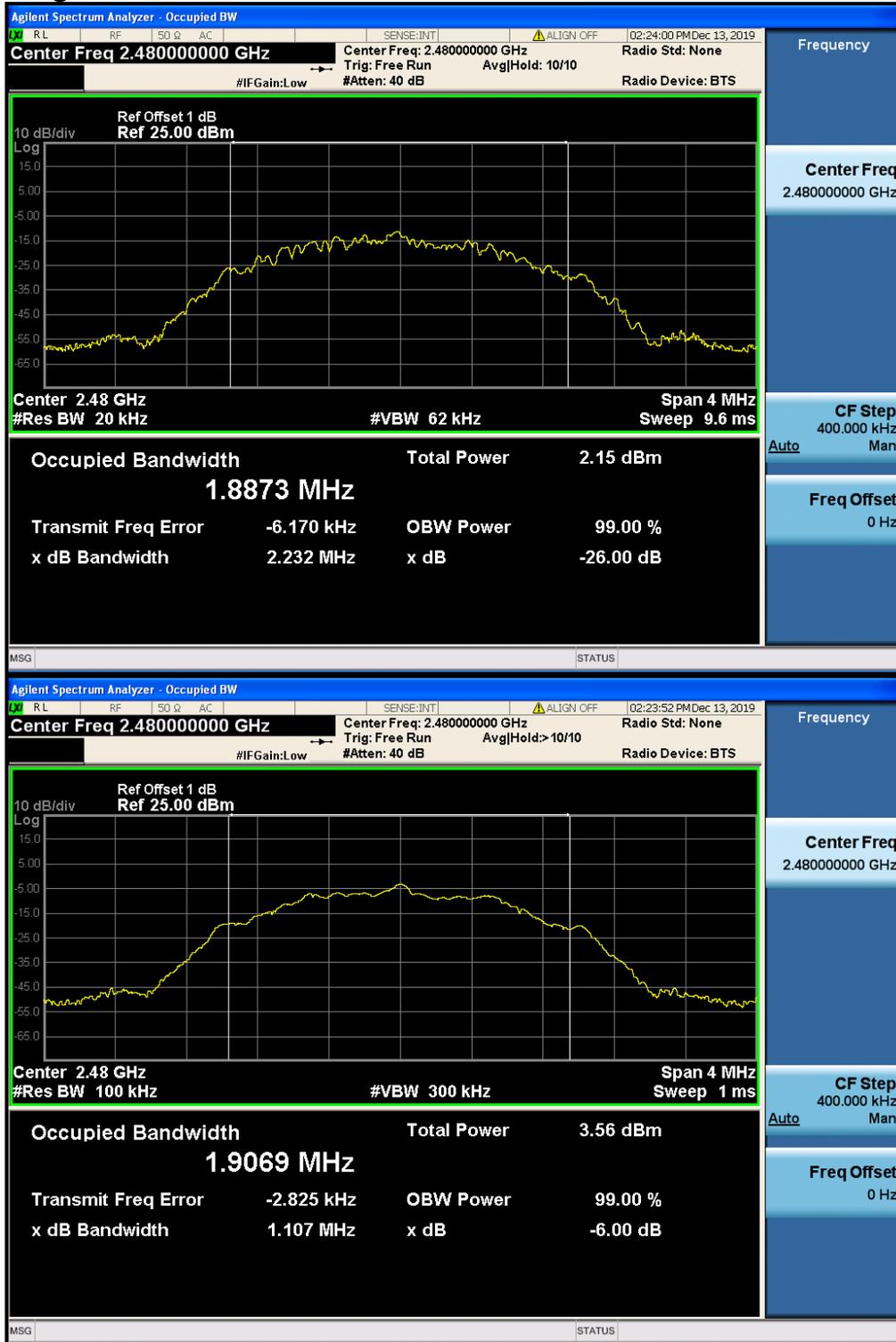
**GFSK 2M Lowest Channel**



**GFSK 2M\_Middle Channel**



**GFSK 2M\_Highest Channel**



## Power Spectral Density

### Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK 1M	Lowest	-18.380	≤8.00	Pass
	Middle	-17.151	≤8.00	Pass
	Highest	-17.471	≤8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK 2M	Lowest	-20.727	≤8.00	Pass
	Middle	-19.486	≤8.00	Pass
	Highest	-19.986	≤8.00	Pass



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**Test plots**

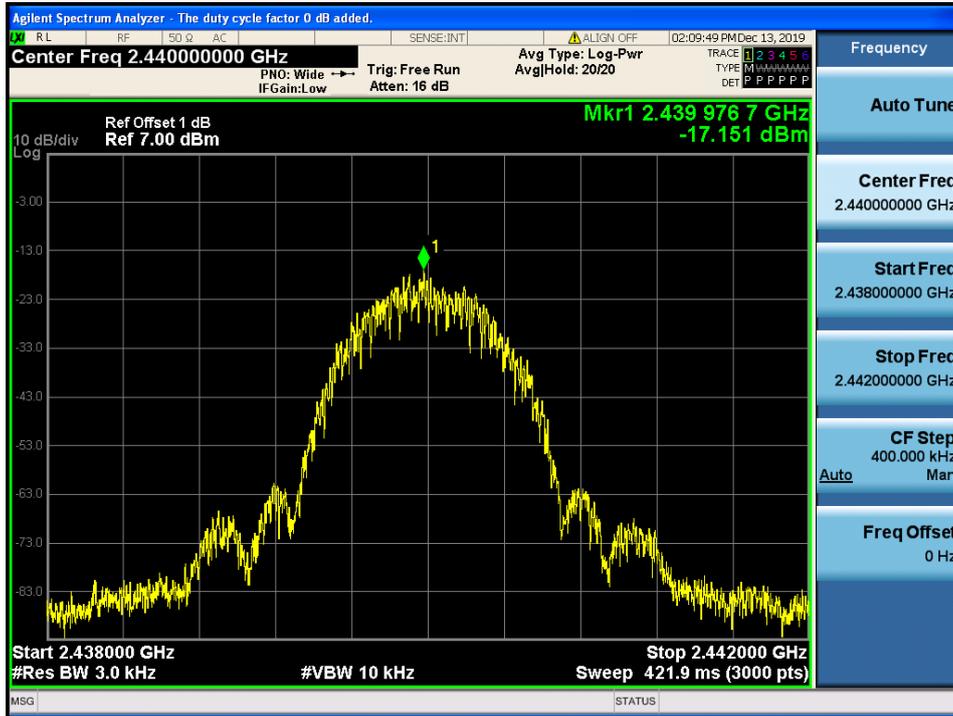
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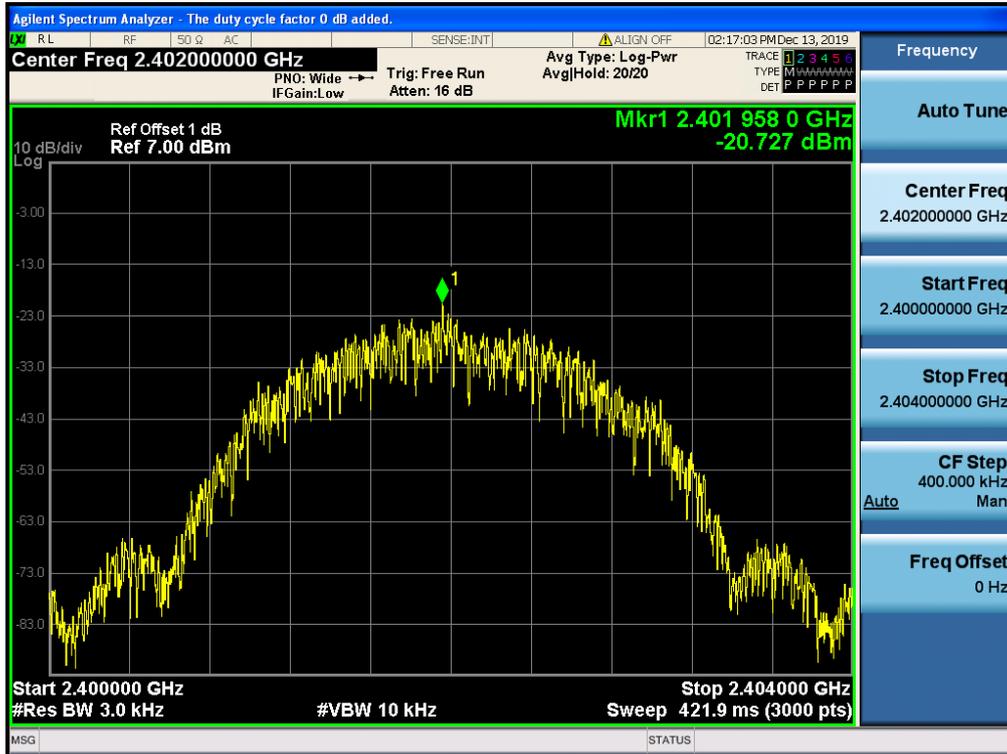
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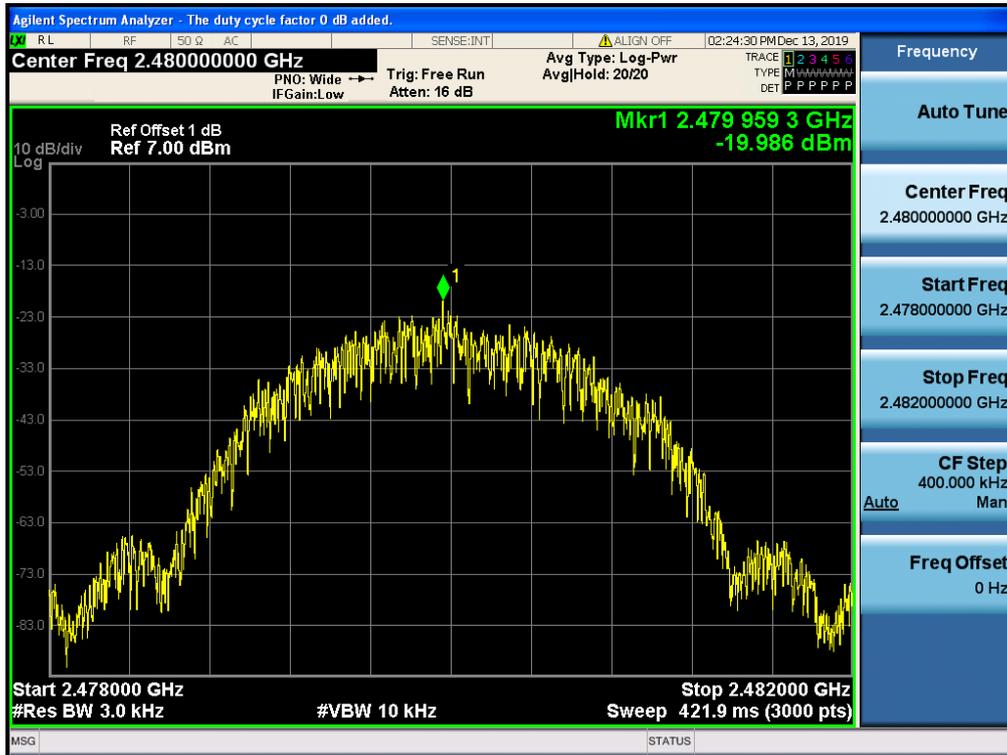
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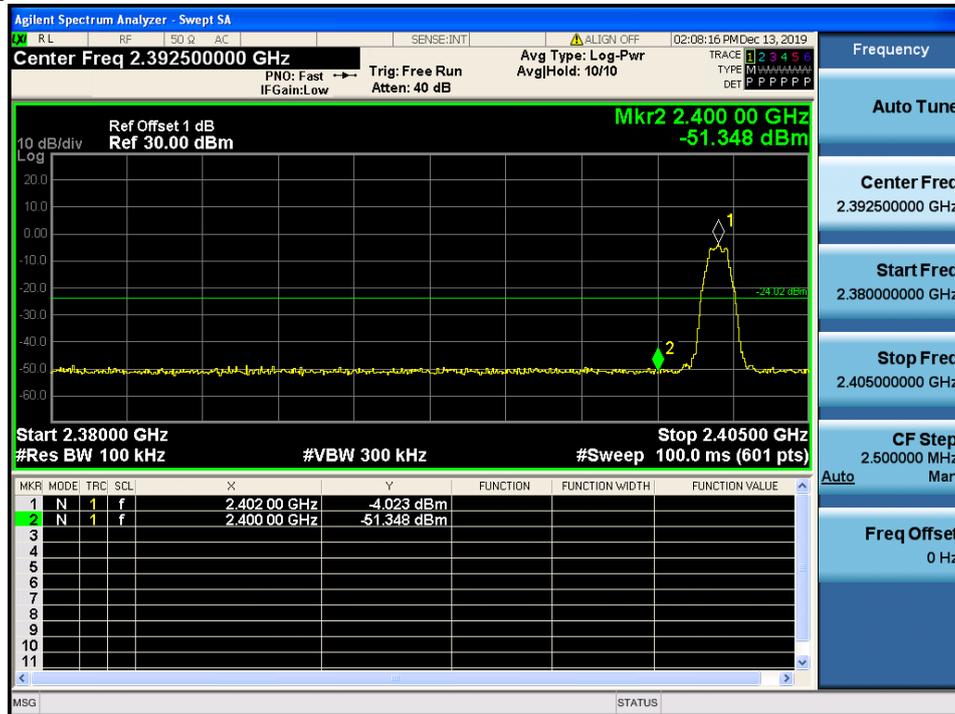
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## Band-edge for RF Conducted Emissions

### Test plots

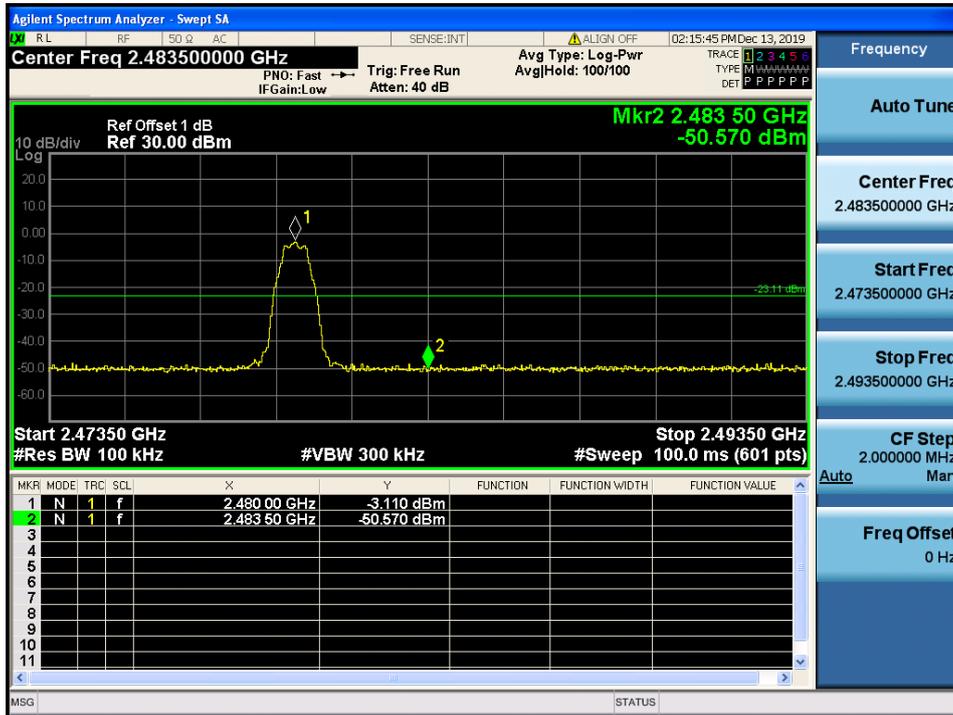
#### GFSK 1M\_Lowest Channel



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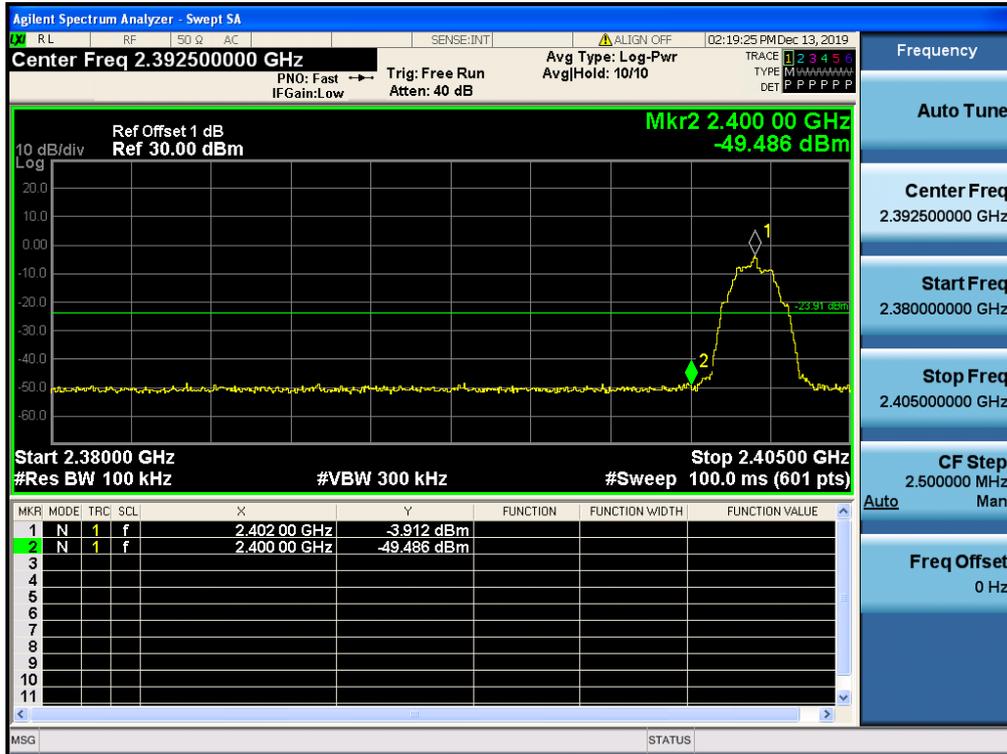
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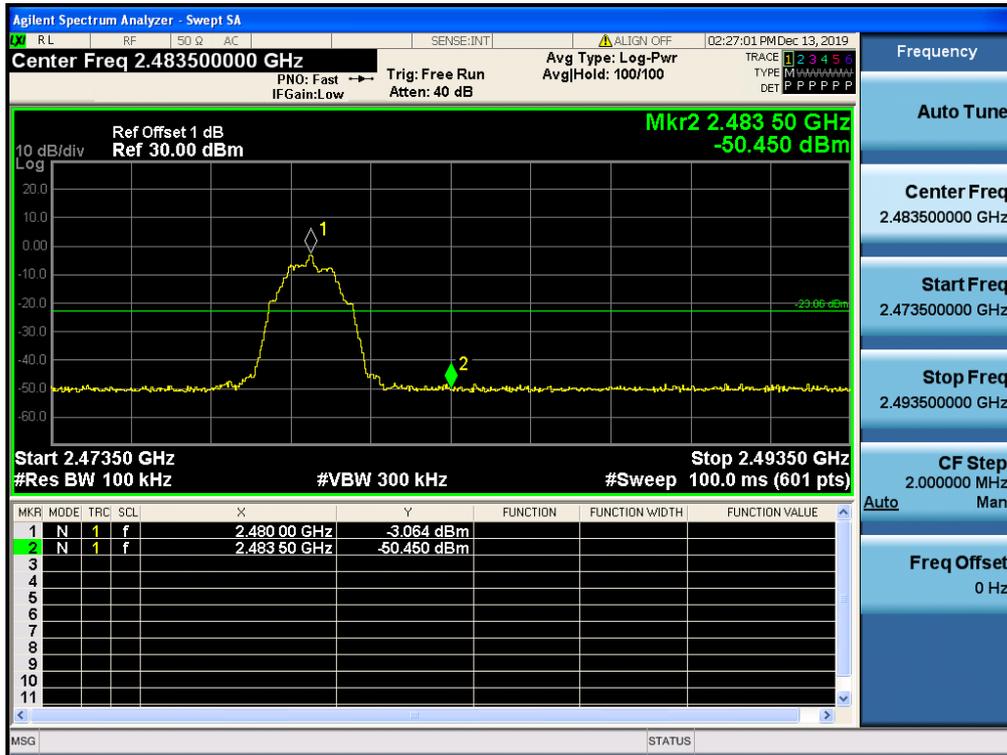
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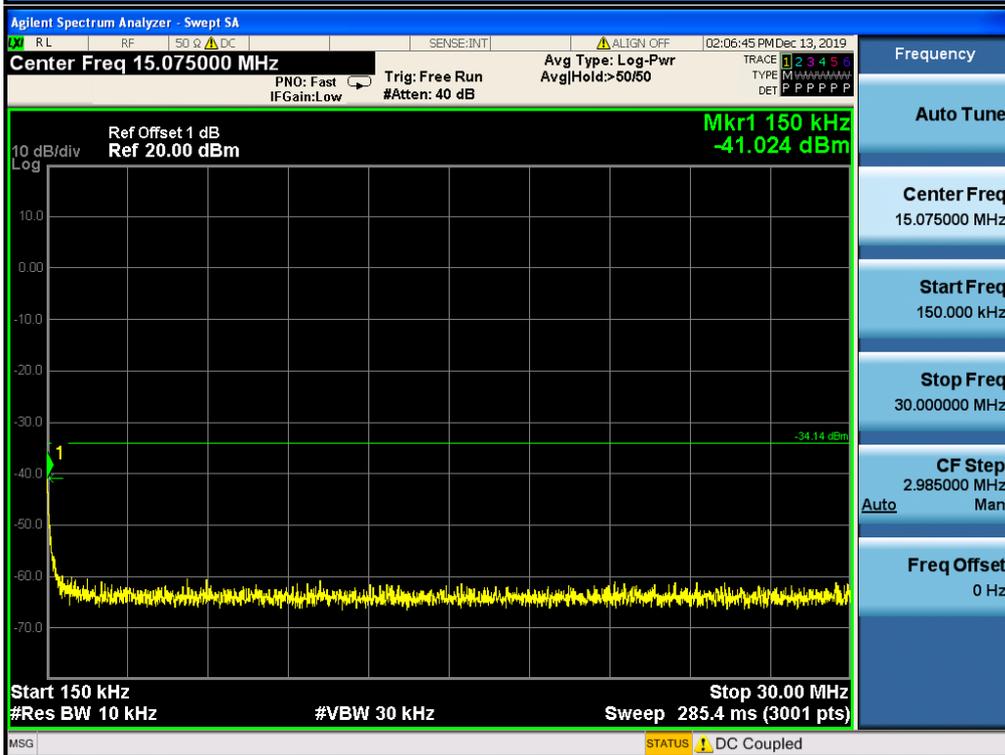
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Test plots:

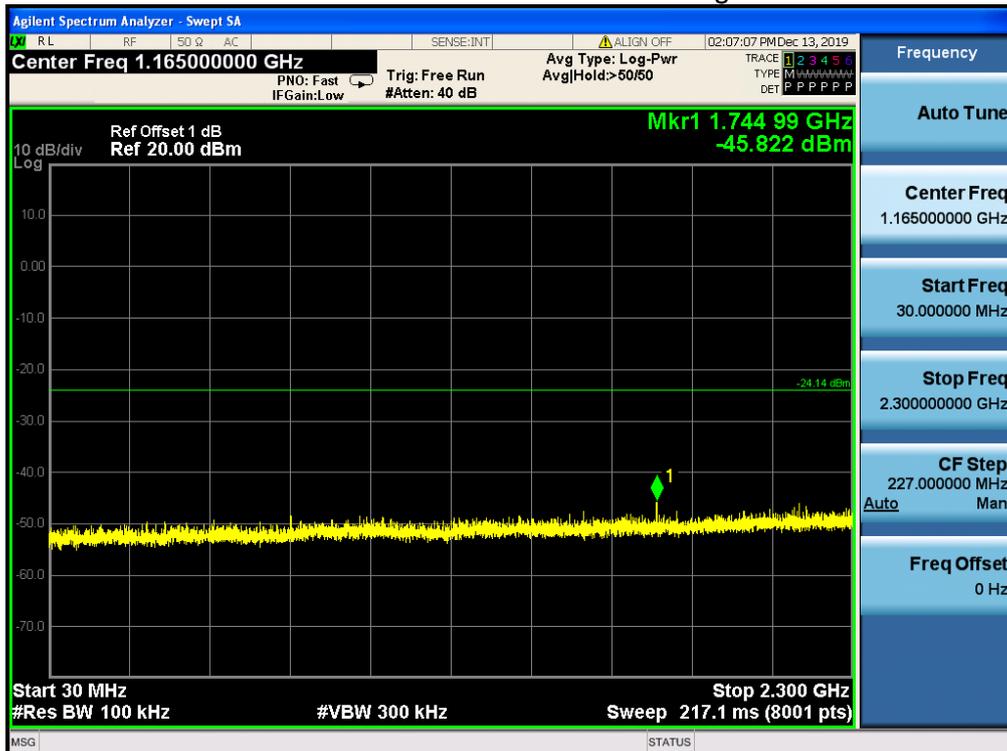
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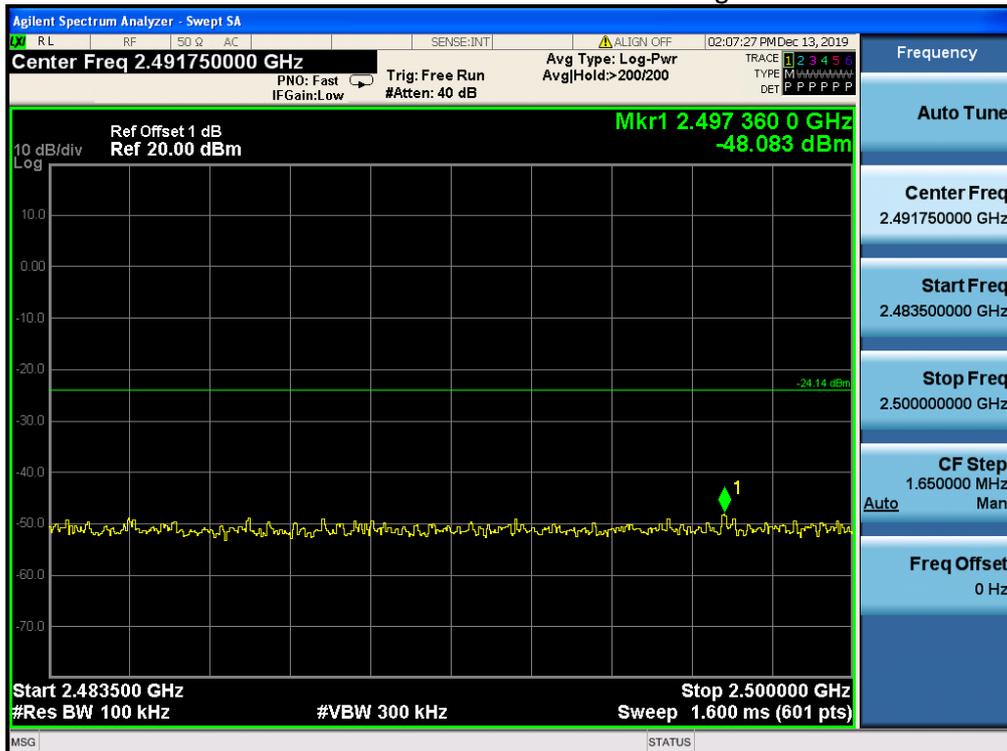


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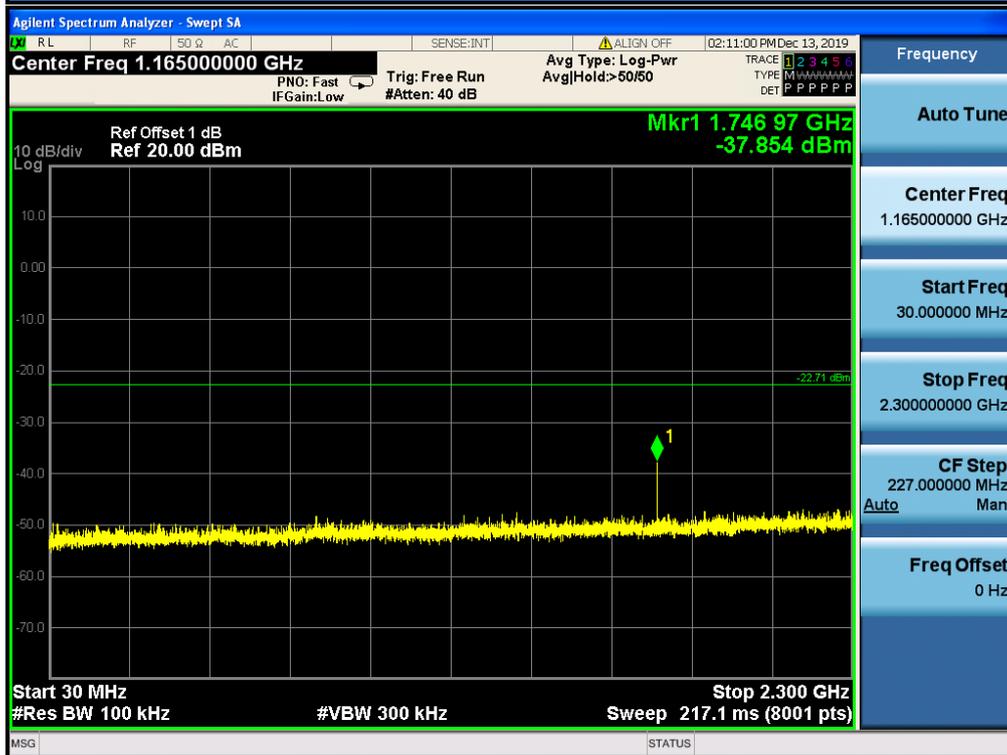
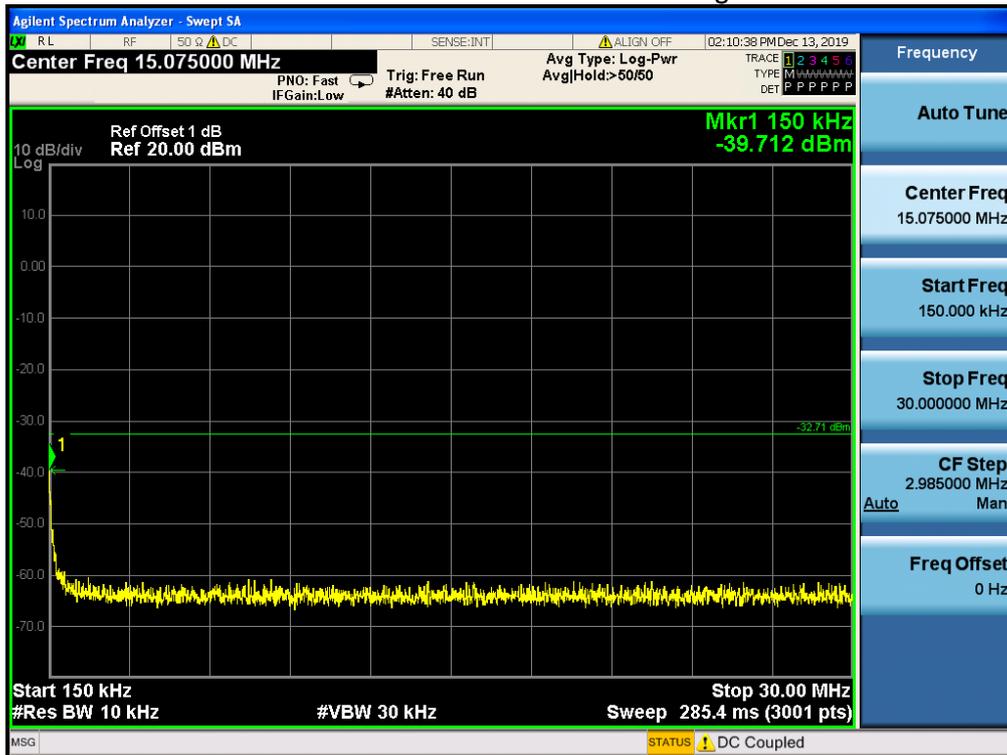


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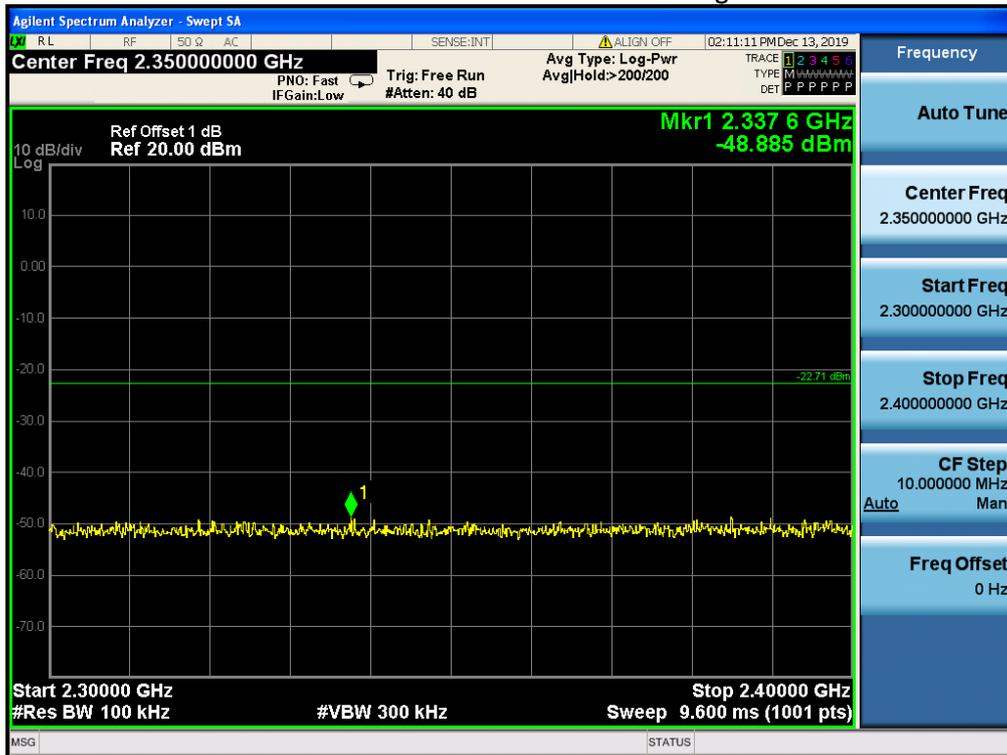


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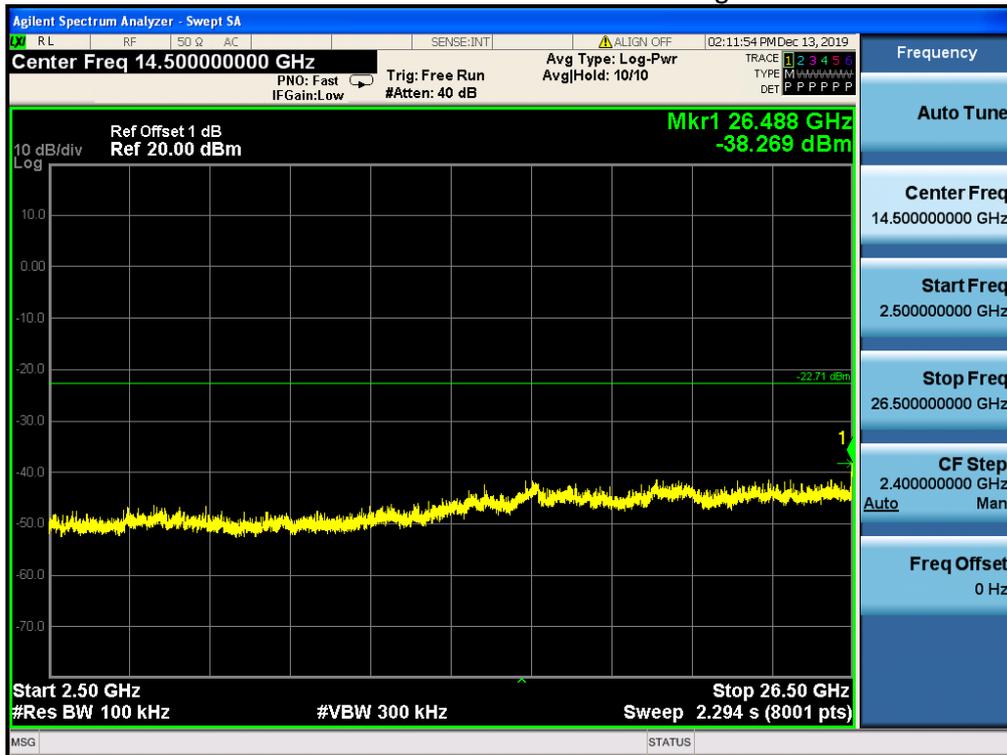
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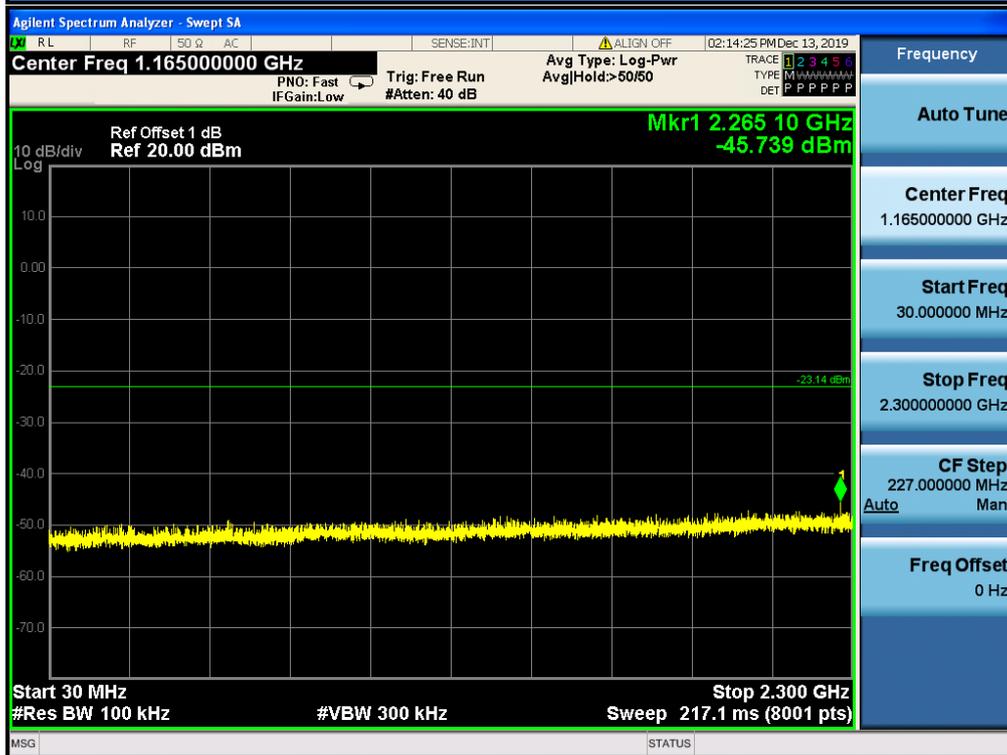
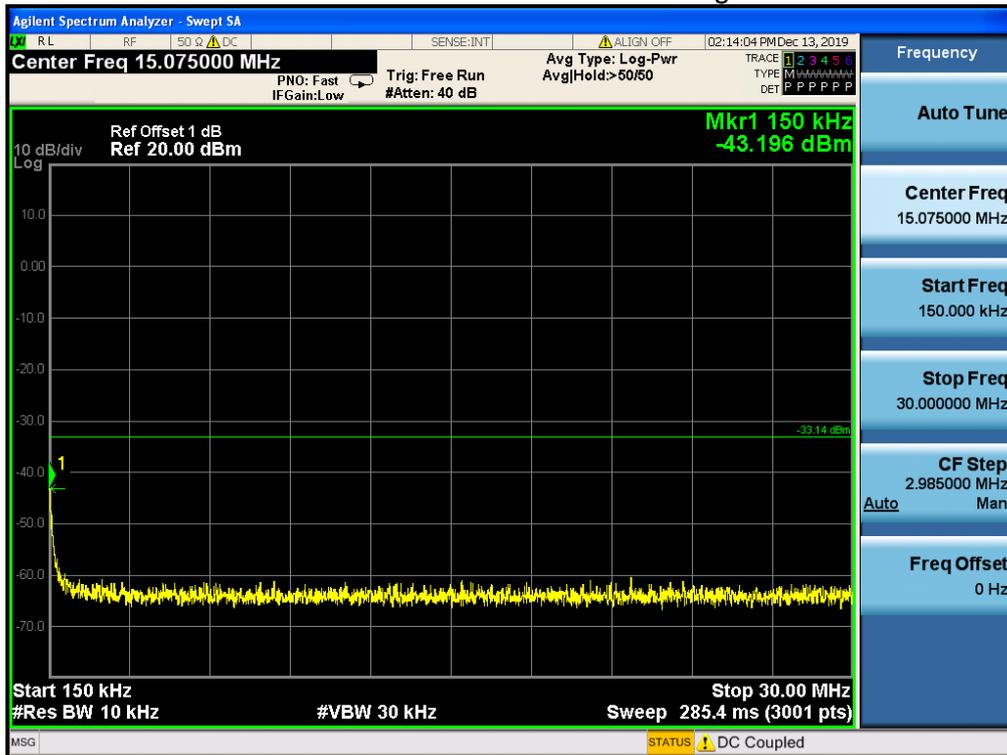
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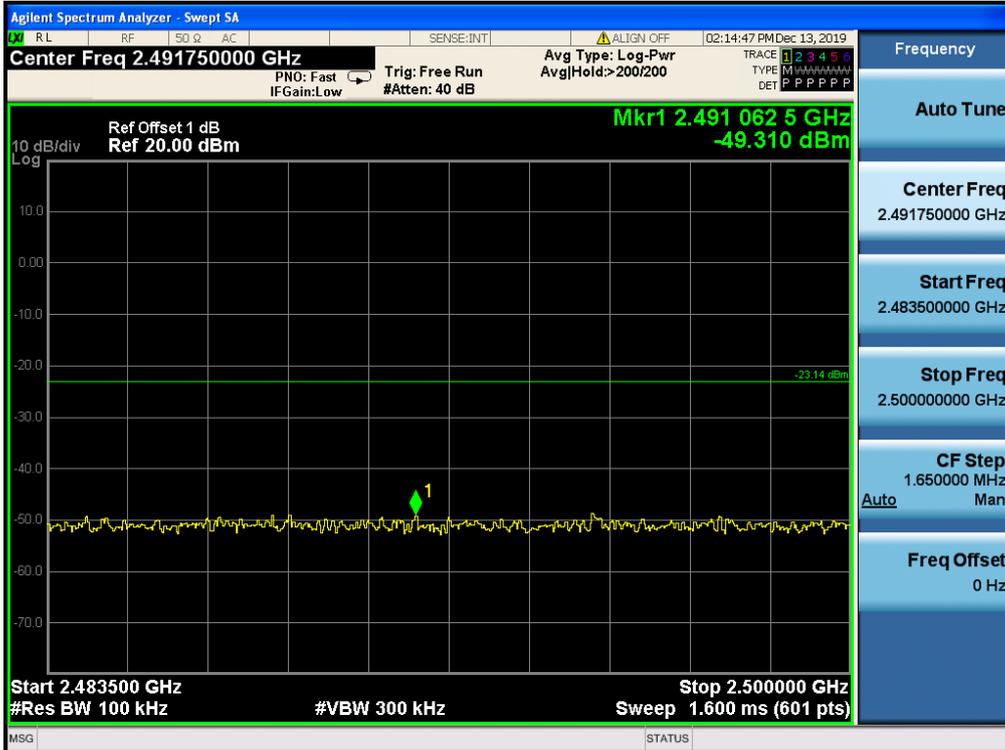
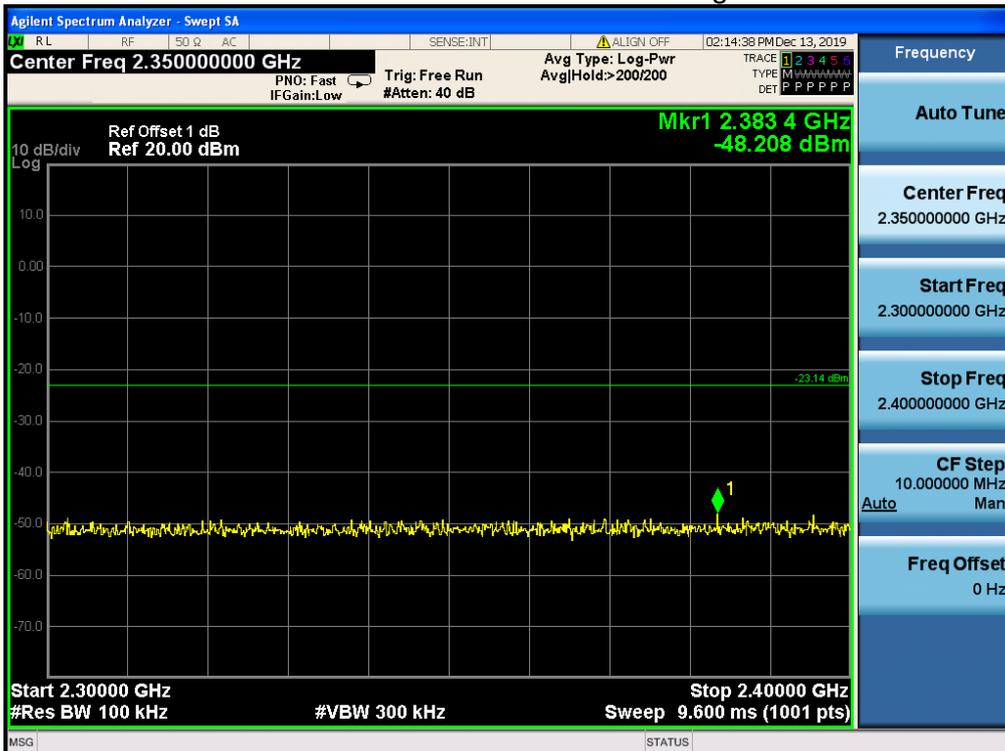
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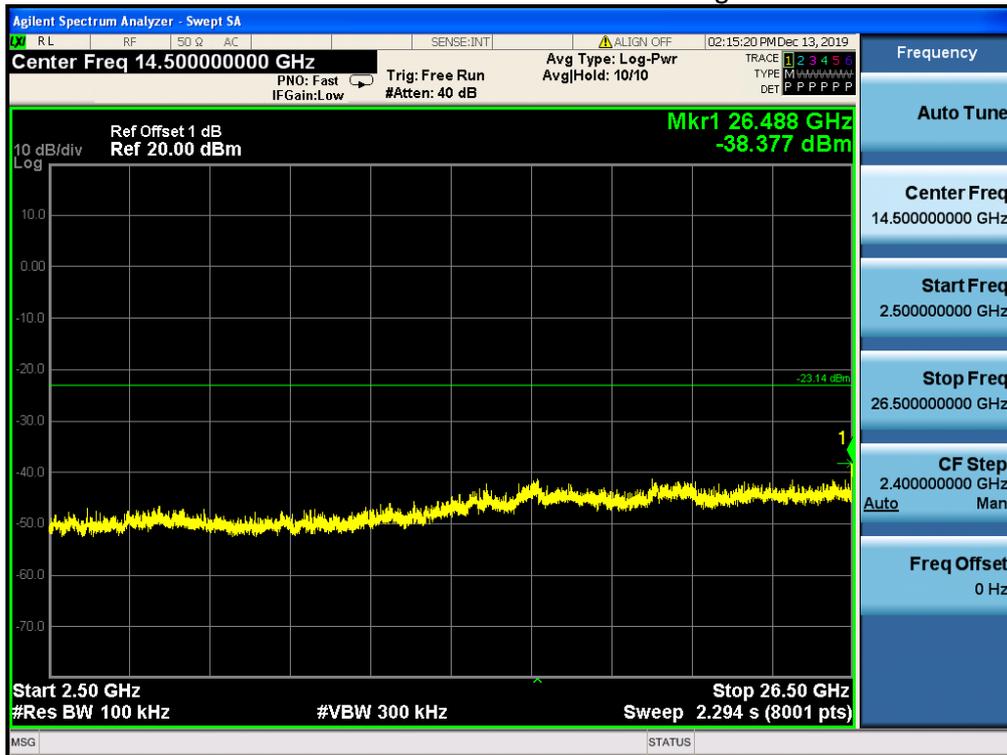


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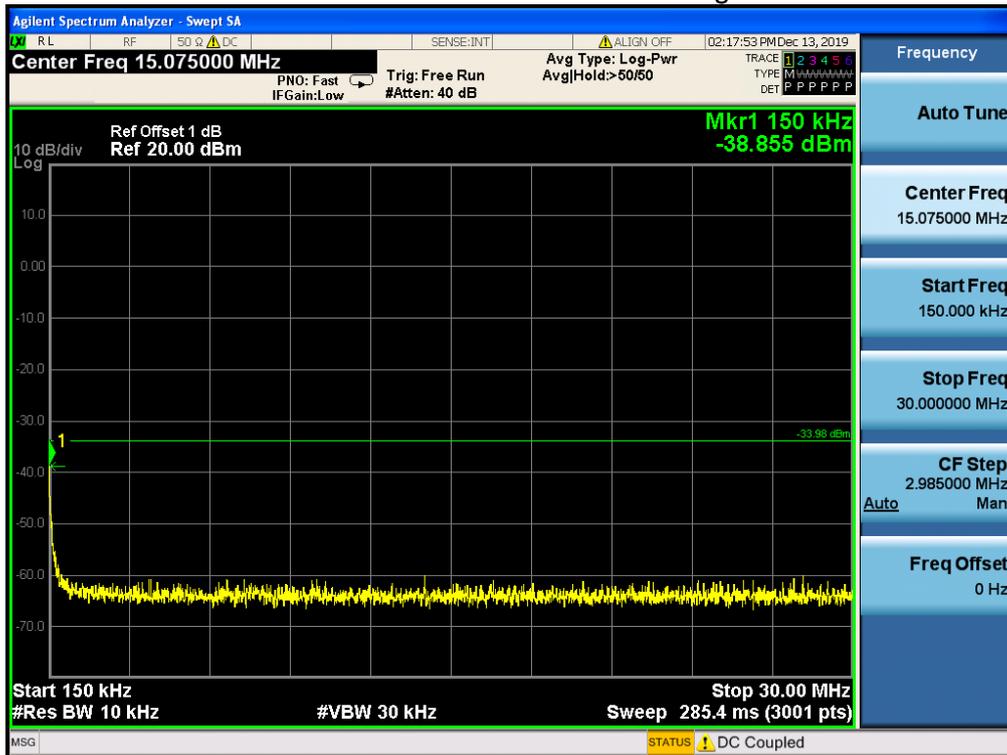
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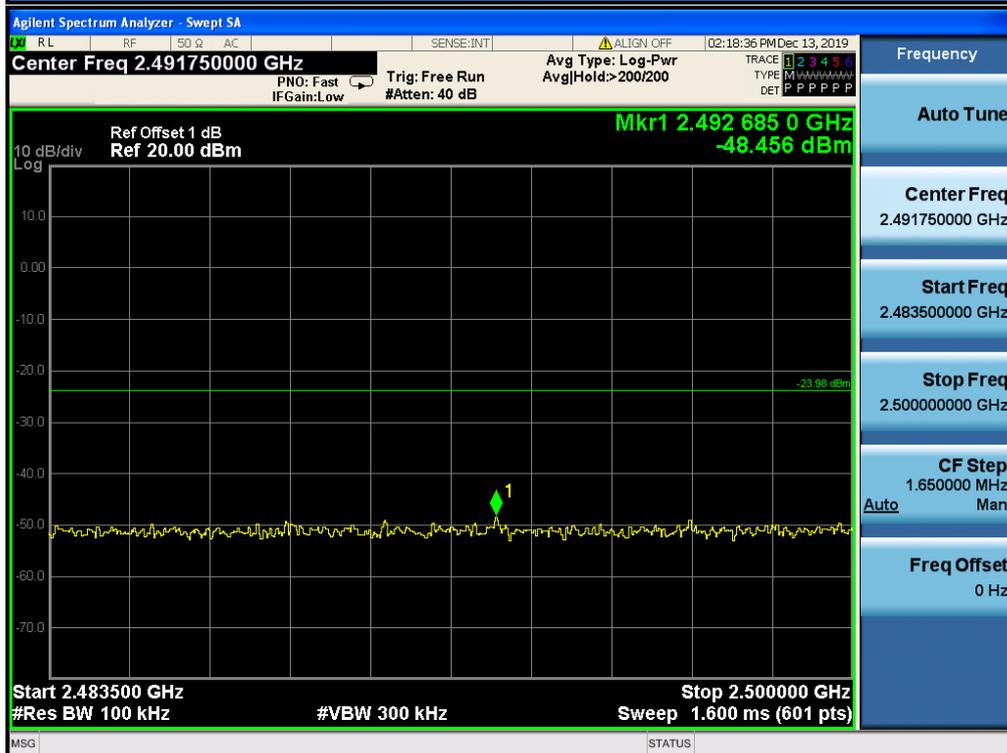
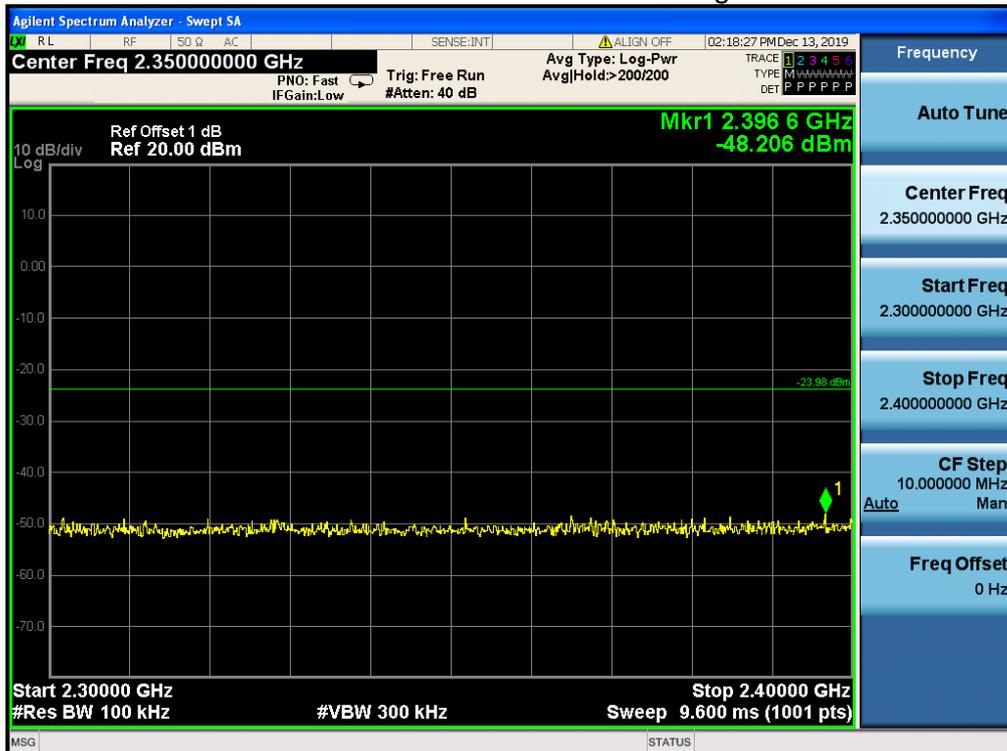


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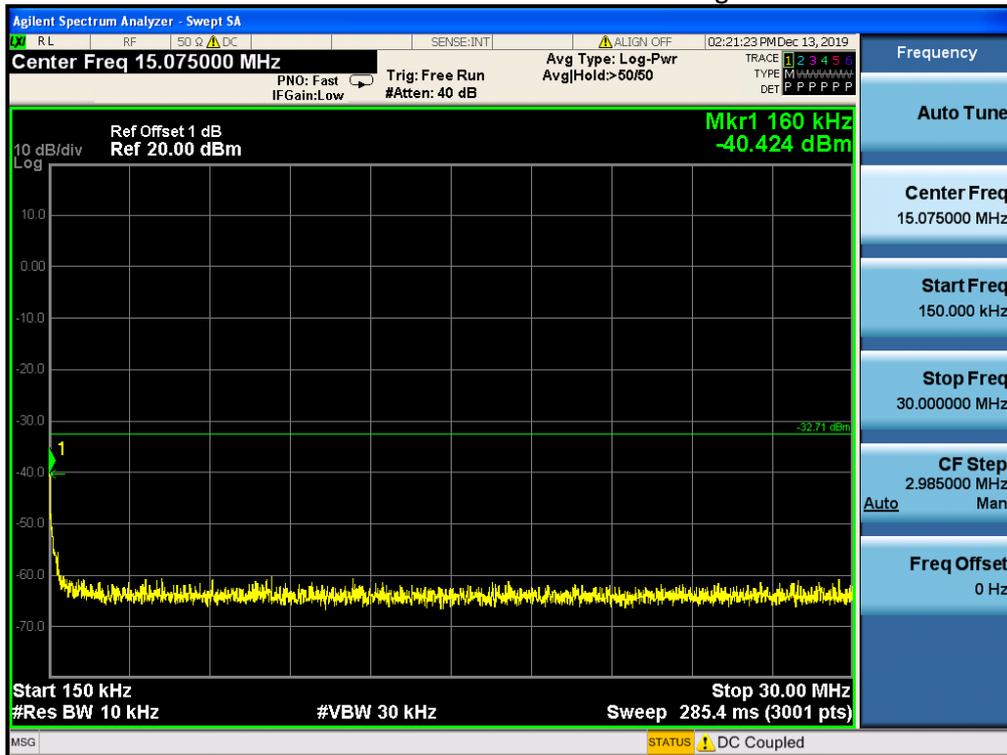
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**GFSK 2M\_Middle Channel**



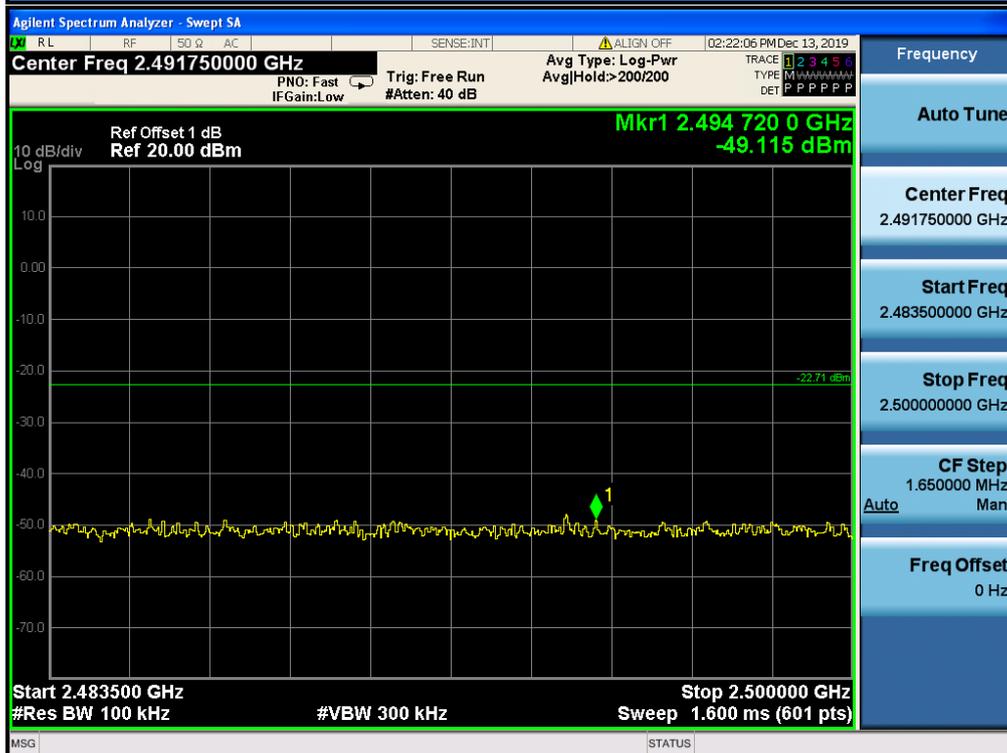
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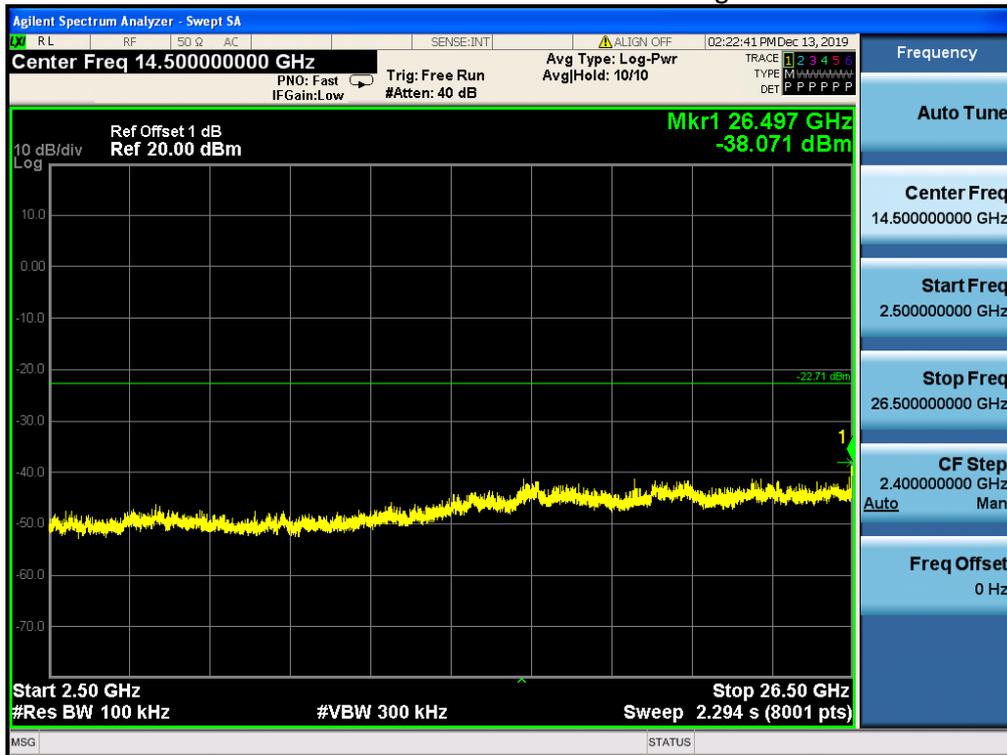
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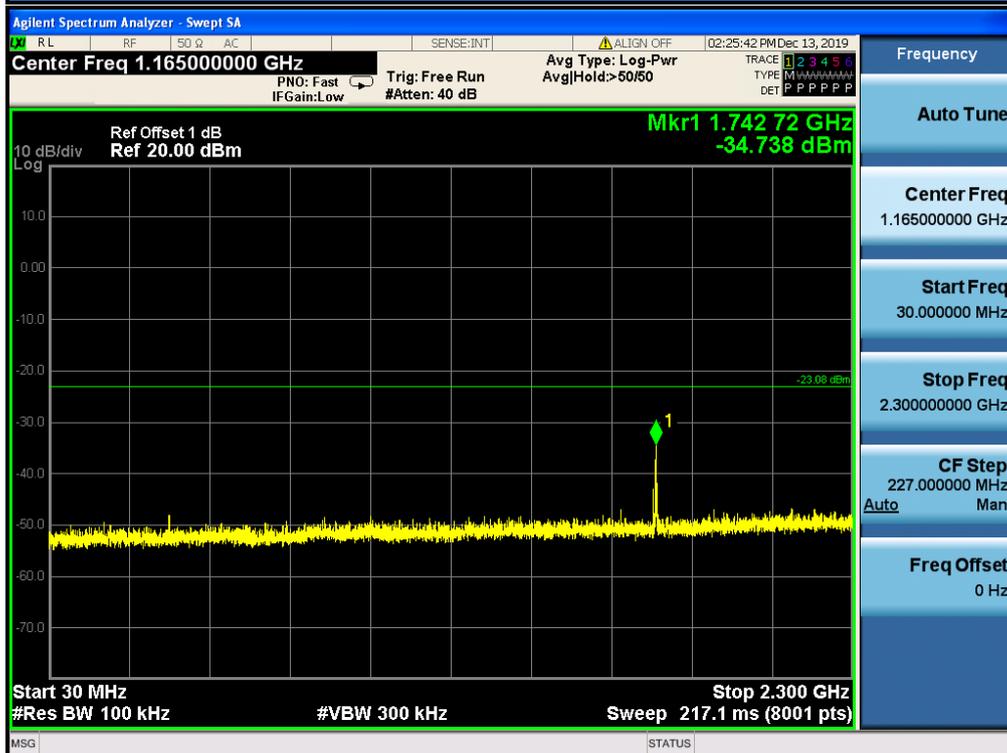
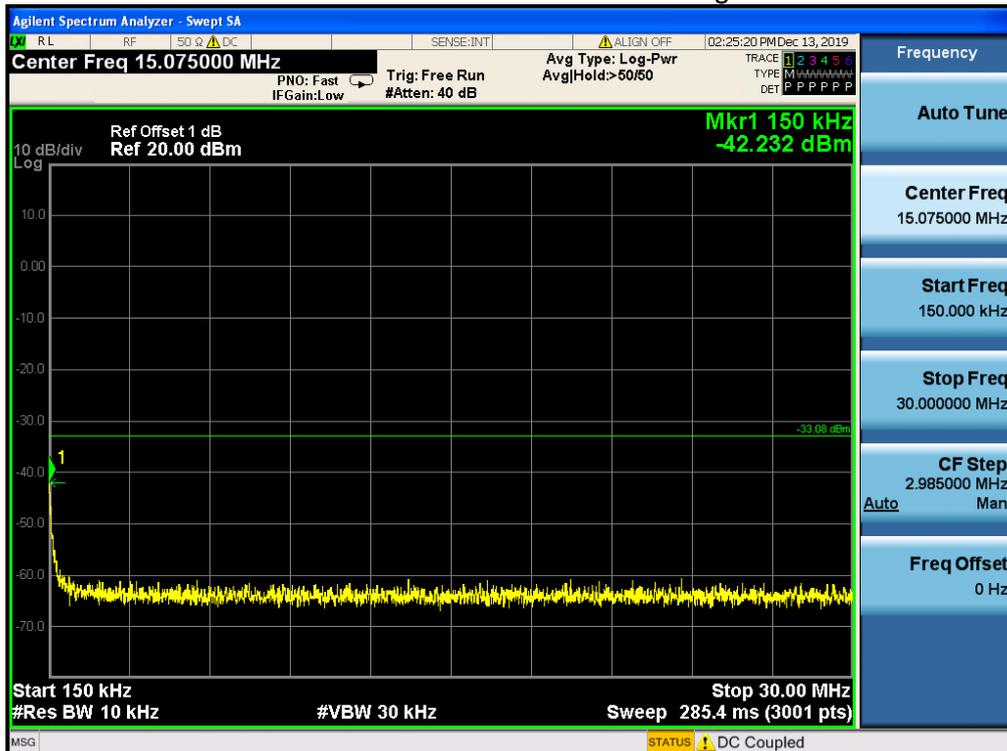


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### GFSK 2M\_Highest Channel

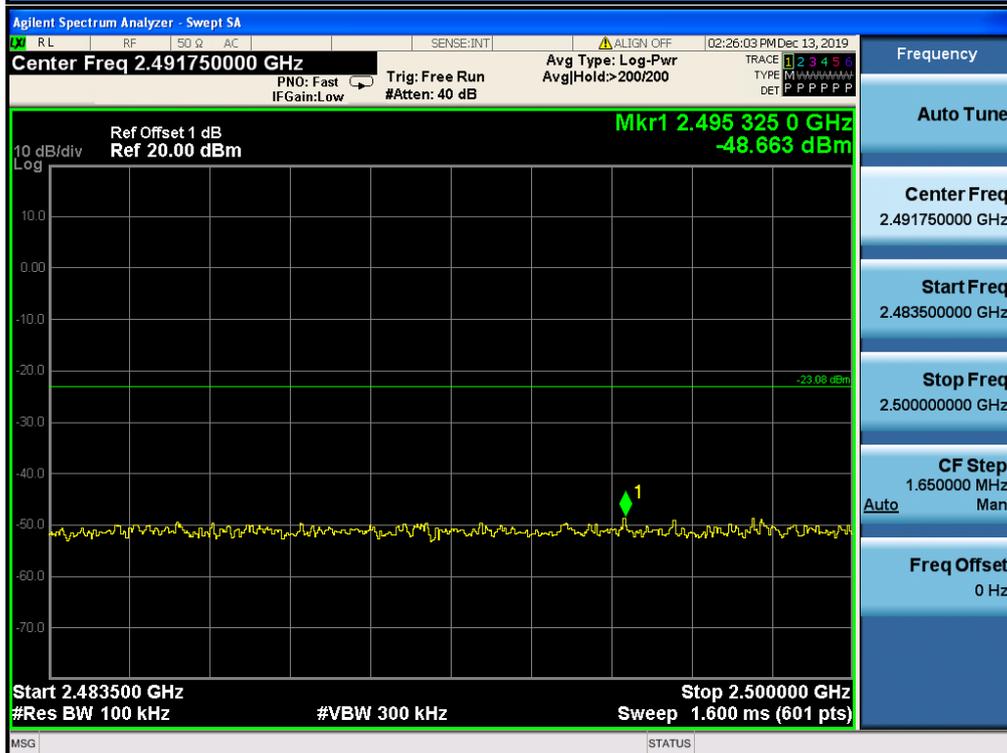
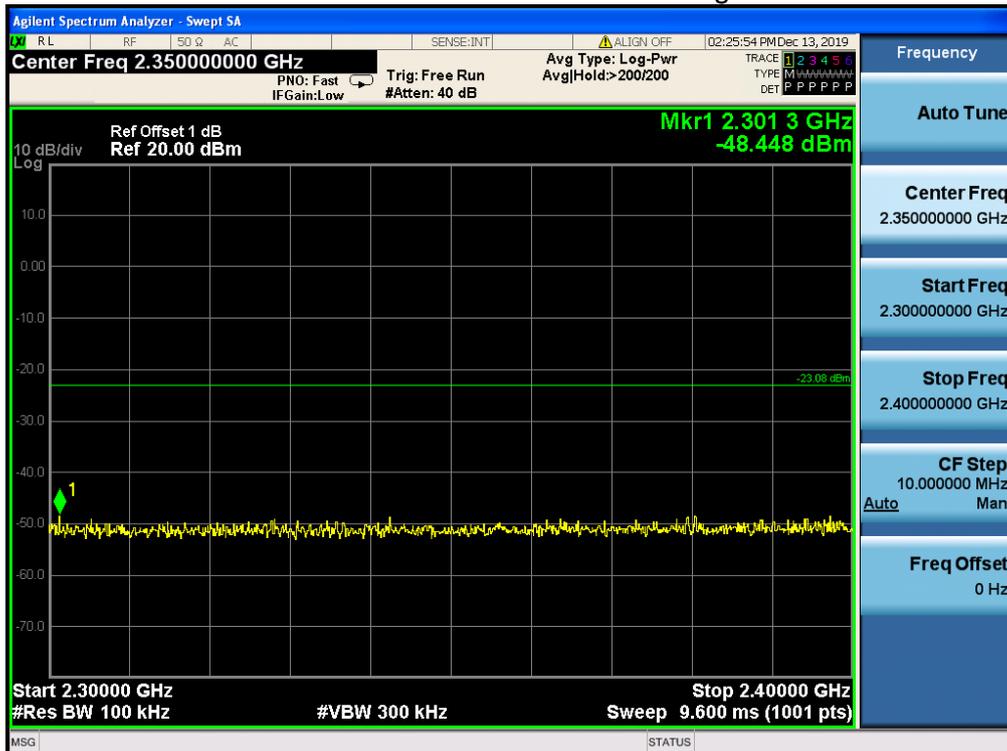




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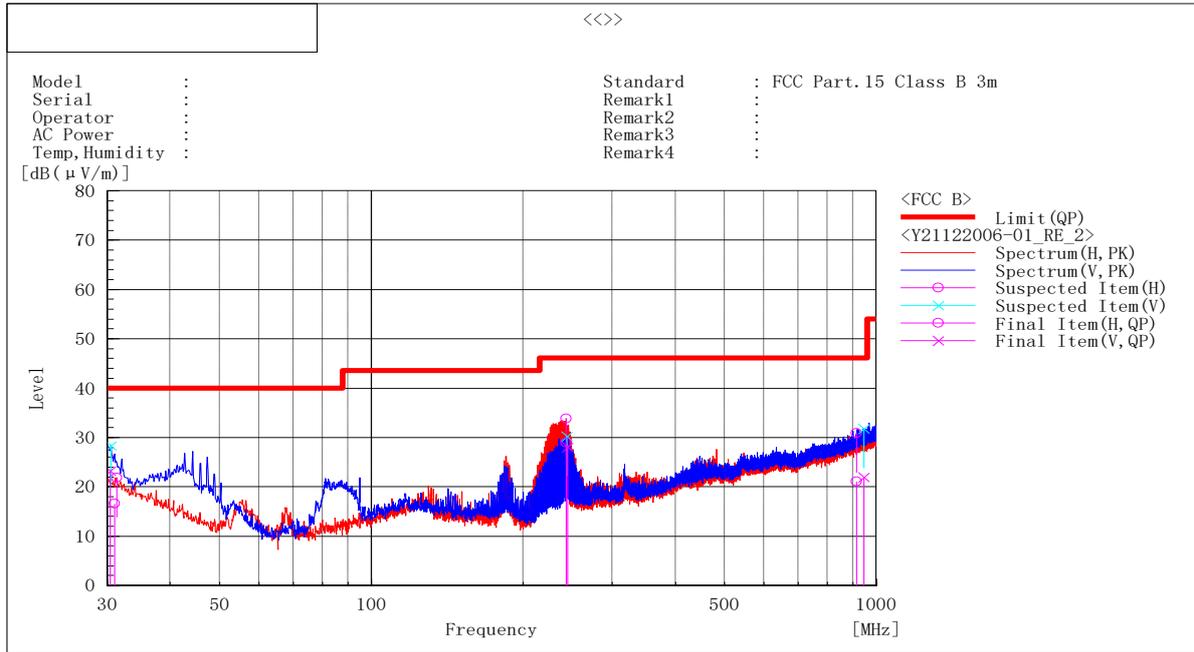
Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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**Radiated Spurious Emissions**  
**Radiated Emission test (below 1 GHz)**



**Final Result**

No.	Frequency [MHz]	(P)	Reading QP [dB (µV)]	c. f [dB (1/m)]	Result QP [dB (µV/m)]	Limit QP [dB (µV/m)]	Margin QP [dB]	Height [cm]	Angle [°]	System	Remark
1	30.415	V	27.1	-3.9	23.2	40.0	16.8	100.0	344.1	2	
2	244.520	V	37.1	-9.0	28.1	46.0	17.9	102.0	193.5	2	
3	943.963	V	17.0	5.0	22.0	46.0	24.0	116.0	1.5	2	
4	31.054	H	21.9	-5.3	16.6	40.0	23.4	225.0	137.4	1	
5	243.101	H	38.9	-10.0	28.9	46.0	17.1	103.0	52.5	1	
6	914.174	H	17.5	3.6	21.1	46.0	24.9	100.0	282.6	1	



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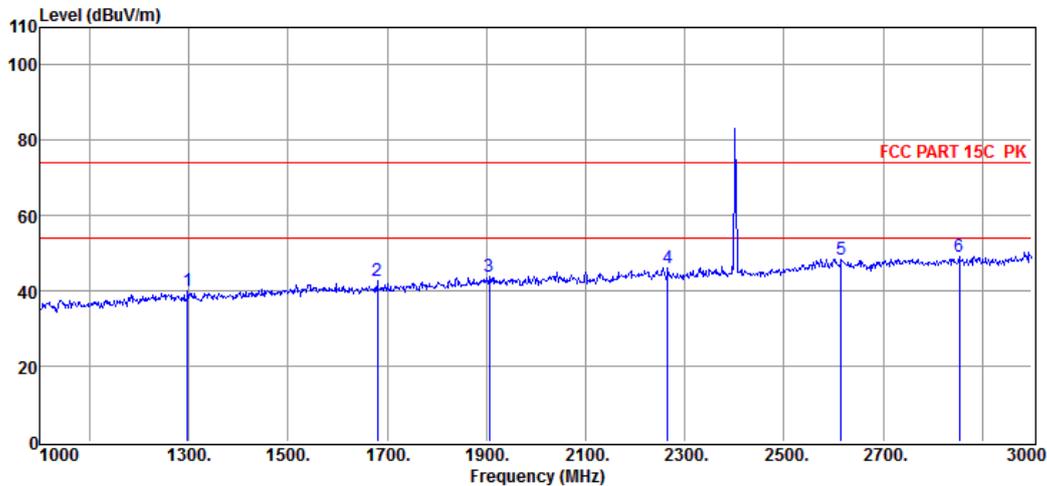
# Radiated Emission Test Result

## Radiated Emission test (1 GHz – 3 GHz)

: 10m Chamber

**Test Date** : 01-10-2022 **Tested By** : Sunny  
**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52  
**Power Supply** : Battery **Test Mode** : Tx mode  
**Memo** : BLE 1M 2402

Data: 175



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1298.00	-4.69	39.95	74.00	-34.05	190	1	Peak	VERTICAL
2	1680.00	-2.13	42.90	74.00	-31.10	176	165	Peak	VERTICAL
3	1906.00	-0.03	43.86	74.00	-30.14	168	204	Peak	VERTICAL
4	2266.00	2.22	46.16	74.00	-27.84	181	147	Peak	VERTICAL
5	2616.00	5.71	48.46	74.00	-25.54	166	232	Peak	VERTICAL
6	2854.00	6.73	49.09	74.00	-24.91	178	209	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

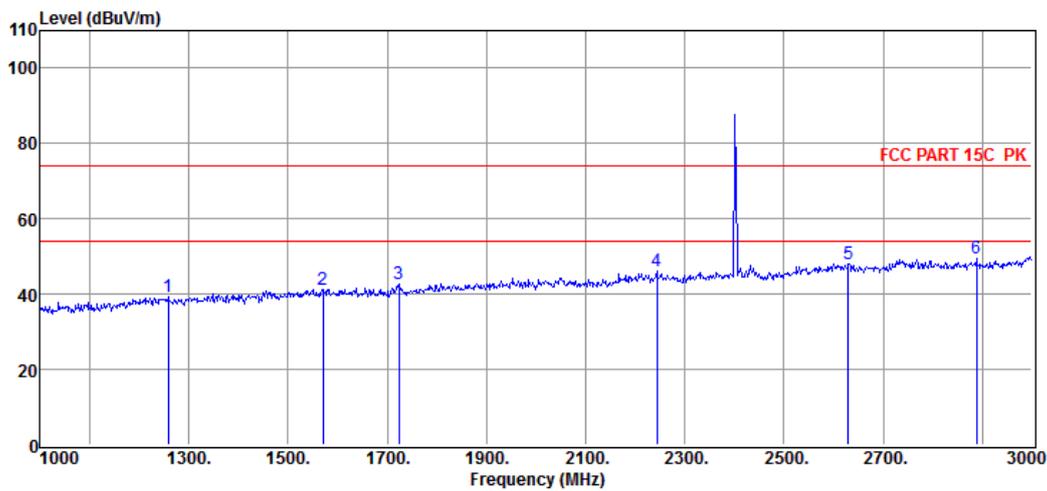
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 1M 2402

Data: 176



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1258.00	-4.72	39.32	74.00	-34.68	155	13	Peak	HORIZONTAL
2	1570.00	-2.39	41.30	74.00	-32.70	179	179	Peak	HORIZONTAL
3	1724.00	-1.72	42.70	74.00	-31.30	159	187	Peak	HORIZONTAL
4	2244.00	2.37	46.06	74.00	-27.94	172	266	Peak	HORIZONTAL
5	2630.00	5.54	47.97	74.00	-26.03	151	134	Peak	HORIZONTAL
6	2888.00	6.92	49.47	74.00	-24.53	156	149	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

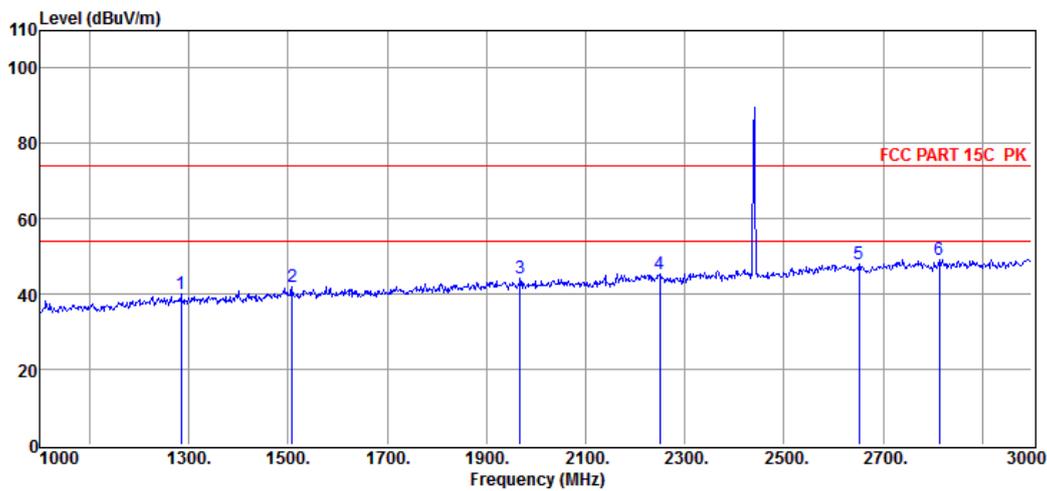
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 1M 2440

Data: 177



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1284.00	-4.70	40.12	74.00	-33.88	158	147	Peak	HORIZONTAL
2	1508.00	-2.87	41.79	74.00	-32.21	168	64	Peak	HORIZONTAL
3	1968.00	0.28	44.24	74.00	-29.76	166	236	Peak	HORIZONTAL
4	2250.00	2.37	45.28	74.00	-28.72	158	133	Peak	HORIZONTAL
5	2652.00	5.33	48.14	74.00	-25.86	171	141	Peak	HORIZONTAL
6	2814.00	6.47	49.21	74.00	-24.79	189	338	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

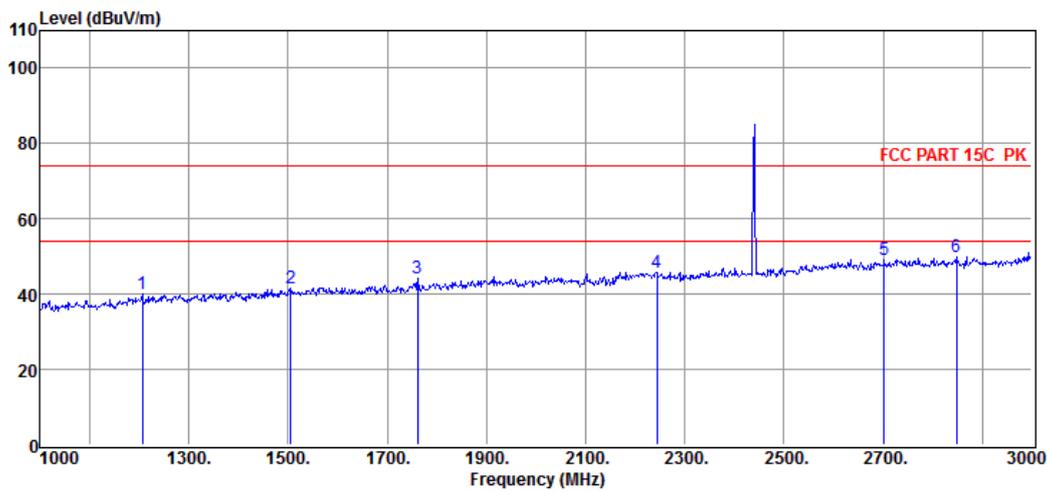
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 1M 2440

Data: 178



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1206.00	-5.25	40.00	74.00	-34.00	168	161	Peak	VERTICAL
2	1506.00	-2.89	41.54	74.00	-32.46	151	246	Peak	VERTICAL
3	1762.00	-1.37	44.10	74.00	-29.90	153	270	Peak	VERTICAL
4	2244.00	2.37	45.87	74.00	-28.13	190	197	Peak	VERTICAL
5	2702.00	5.94	49.29	74.00	-24.71	152	115	Peak	VERTICAL
6	2848.00	6.69	49.95	74.00	-24.05	174	8	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
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**Test Site** : 10m Chamber

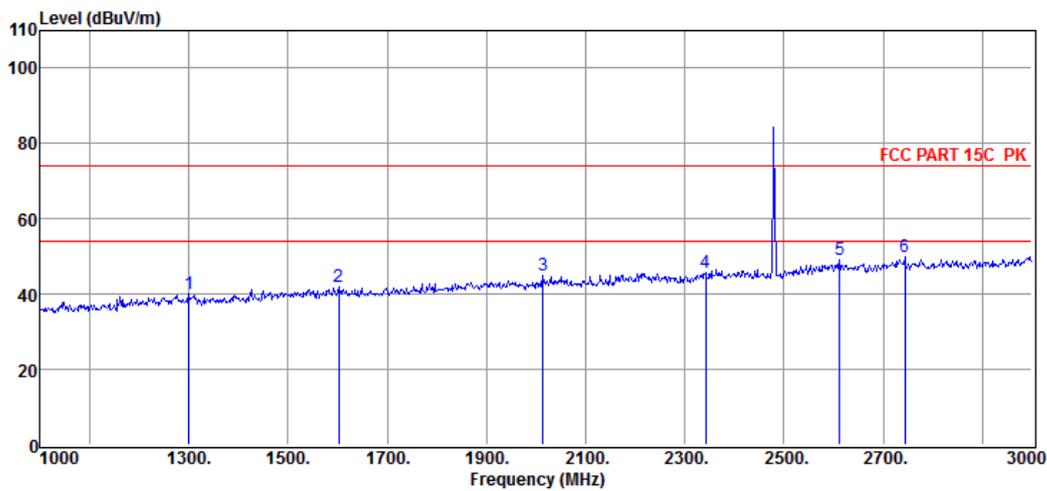
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 1M 2480

Data: 179



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1300.00	-4.69	40.17	74.00	-33.83	156	209	Peak	VERTICAL
2	1602.00	-2.28	42.01	74.00	-31.99	156	139	Peak	VERTICAL
3	2014.00	0.49	44.87	74.00	-29.13	162	133	Peak	VERTICAL
4	2342.00	2.99	45.66	74.00	-28.34	159	235	Peak	VERTICAL
5	2612.00	5.76	49.17	74.00	-24.83	154	350	Peak	VERTICAL
6	2744.00	6.56	49.76	74.00	-24.24	159	257	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

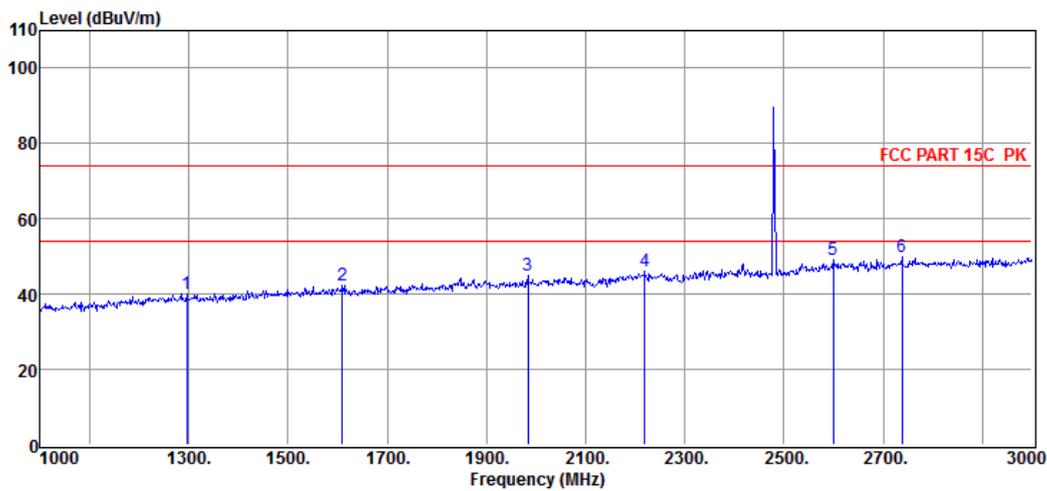
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 1M 2480

Data: 180



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1296.00	-4.69	40.06	74.00	-33.94	184	95	Peak	HORIZONTAL
2	1610.00	-2.29	42.41	74.00	-31.59	155	9	Peak	HORIZONTAL
3	1984.00	0.25	44.92	74.00	-29.08	174	190	Peak	HORIZONTAL
4	2220.00	2.37	46.19	74.00	-27.81	175	101	Peak	HORIZONTAL
5	2600.00	5.91	49.03	74.00	-24.97	180	45	Peak	HORIZONTAL
6	2738.00	6.48	49.91	74.00	-24.09	182	238	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

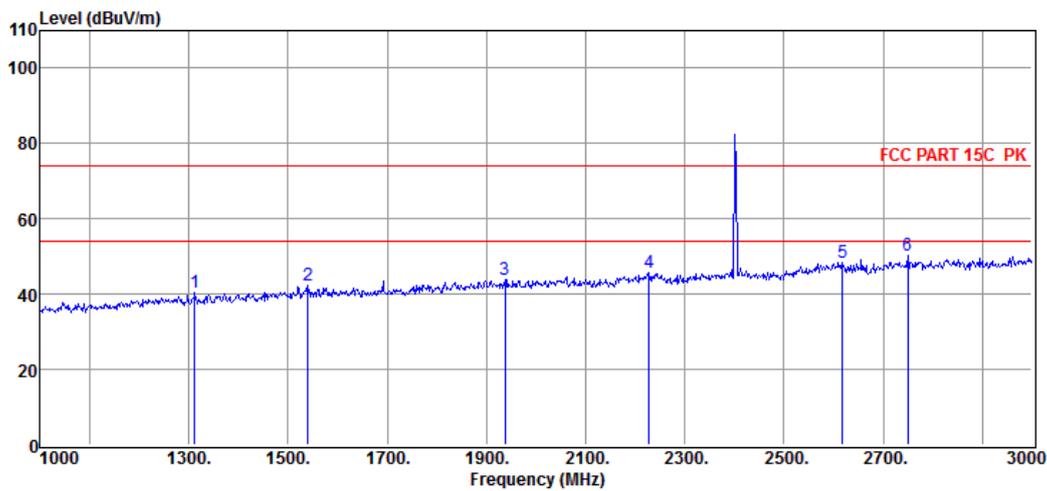
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 2M 2402

Data: 191



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1312.00	-4.61	40.35	74.00	-33.65	170	331	Peak	VERTICAL
2	1540.00	-2.56	42.27	74.00	-31.73	169	255	Peak	VERTICAL
3	1938.00	0.22	43.94	74.00	-30.06	164	324	Peak	VERTICAL
4	2228.00	2.37	45.64	74.00	-28.36	150	116	Peak	VERTICAL
5	2618.00	5.69	48.34	74.00	-25.66	160	15	Peak	VERTICAL
6	2750.00	6.65	50.29	74.00	-23.71	160	224	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

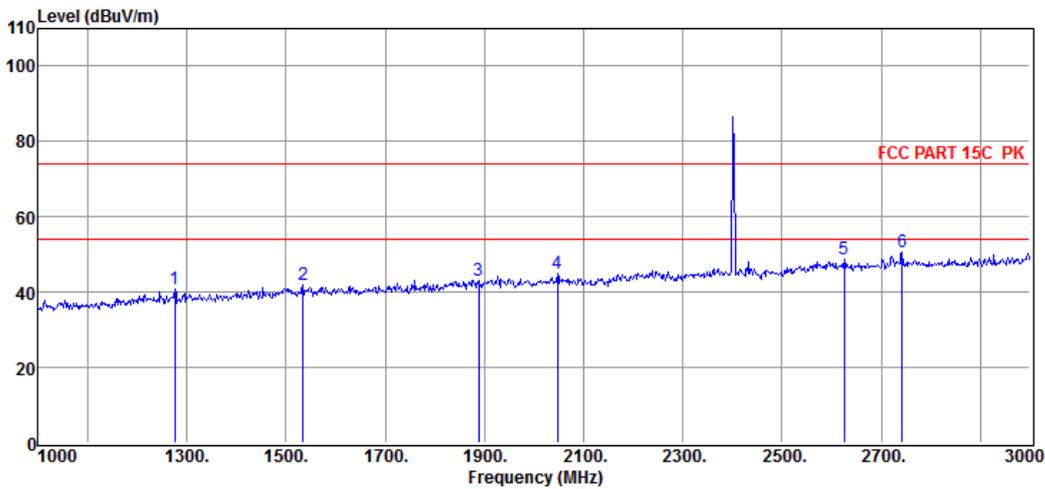
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 2M 2402

Data: 192



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1276.00	-4.70	40.86	74.00	-33.14	165	24	Peak	HORIZONTAL
2	1534.00	-2.62	41.94	74.00	-32.06	166	150	Peak	HORIZONTAL
3	1888.00	-0.14	43.18	74.00	-30.82	171	87	Peak	HORIZONTAL
4	2048.00	1.12	44.89	74.00	-29.11	190	317	Peak	HORIZONTAL
5	2626.00	5.59	48.62	74.00	-25.38	160	42	Peak	HORIZONTAL
6	2742.00	6.53	50.61	74.00	-23.39	153	153	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

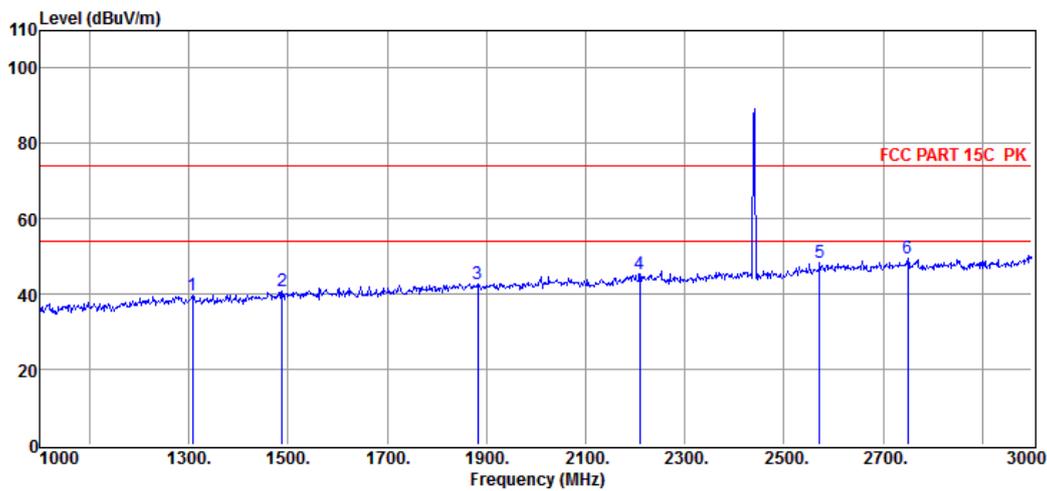
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 2M 2440

Data: 193



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1308.00	-4.64	39.58	74.00	-34.42	169	120	Peak	HORIZONTAL
2	1488.00	-3.08	40.97	74.00	-33.03	180	332	Peak	HORIZONTAL
3	1882.00	-0.16	42.70	74.00	-31.30	180	70	Peak	HORIZONTAL
4	2210.00	2.37	45.48	74.00	-28.52	184	145	Peak	HORIZONTAL
5	2572.00	5.28	48.42	74.00	-25.58	158	218	Peak	HORIZONTAL
6	2750.00	6.65	49.62	74.00	-24.38	159	325	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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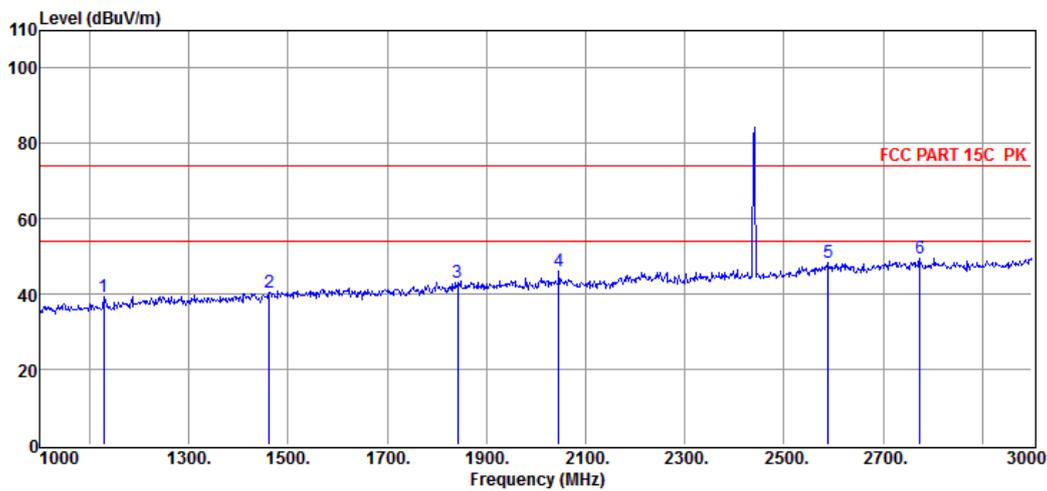
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**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 2M 2440

Data: 194



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1128.00	-6.51	39.46	74.00	-34.54	183	94	Peak	VERTICAL
2	1462.00	-3.35	40.59	74.00	-33.41	159	8	Peak	VERTICAL
3	1842.00	-0.46	43.10	74.00	-30.90	152	316	Peak	VERTICAL
4	2046.00	1.08	46.06	74.00	-27.94	163	23	Peak	VERTICAL
5	2590.00	5.69	48.40	74.00	-25.60	173	59	Peak	VERTICAL
6	2774.00	6.52	49.59	74.00	-24.41	180	218	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
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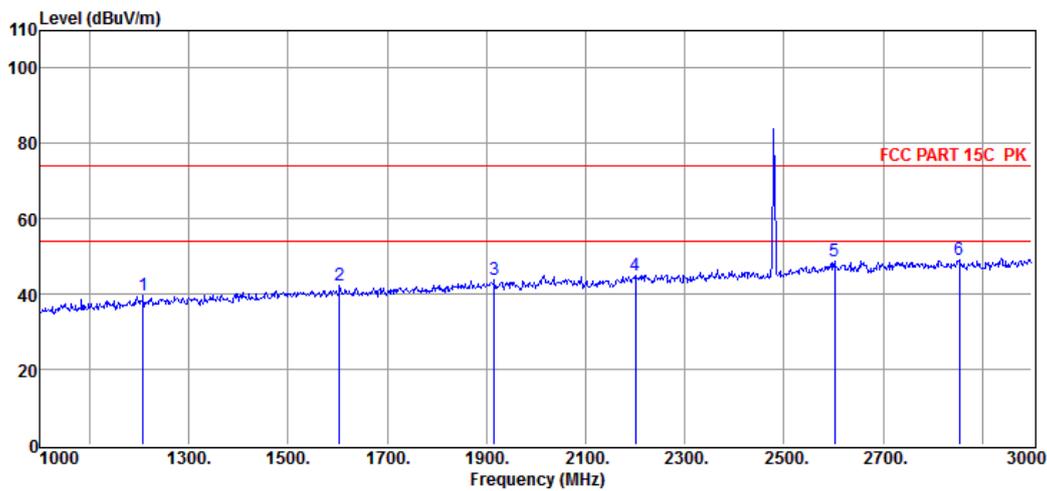
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**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 2M 2480

Data: 195



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1208.00	-5.23	39.52	74.00	-34.48	179	77	Peak	VERTICAL
2	1604.00	-2.28	42.42	74.00	-31.58	159	119	Peak	VERTICAL
3	1916.00	0.05	43.80	74.00	-30.20	159	242	Peak	VERTICAL
4	2200.00	2.37	45.17	74.00	-28.83	180	122	Peak	VERTICAL
5	2602.00	5.88	48.75	74.00	-25.25	168	36	Peak	VERTICAL
6	2854.00	6.73	49.17	74.00	-24.83	181	360	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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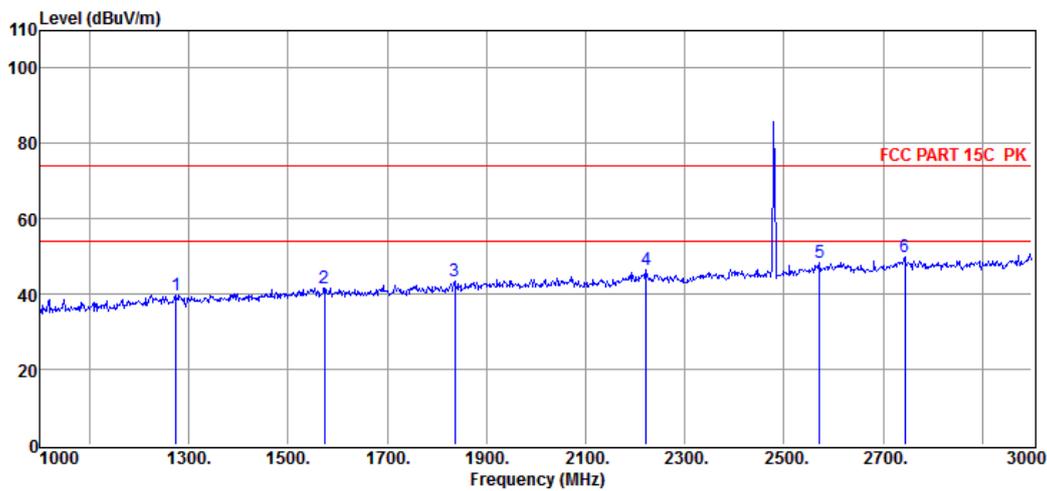
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 2M 2480

Data: 196



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1274.00	-4.71	39.55	74.00	-34.45	182	21	Peak	HORIZONTAL
2	1574.00	-2.37	41.69	74.00	-32.31	173	130	Peak	HORIZONTAL
3	1836.00	-0.55	43.51	74.00	-30.49	160	298	Peak	HORIZONTAL
4	2222.00	2.37	46.34	74.00	-27.66	185	196	Peak	HORIZONTAL
5	2572.00	5.28	48.42	74.00	-25.58	154	109	Peak	HORIZONTAL
6	2744.00	6.56	49.82	74.00	-24.18	152	202	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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### Radiated Emission test (3 GHz – 18 GHz)

**Test Site** : 10m Chamber

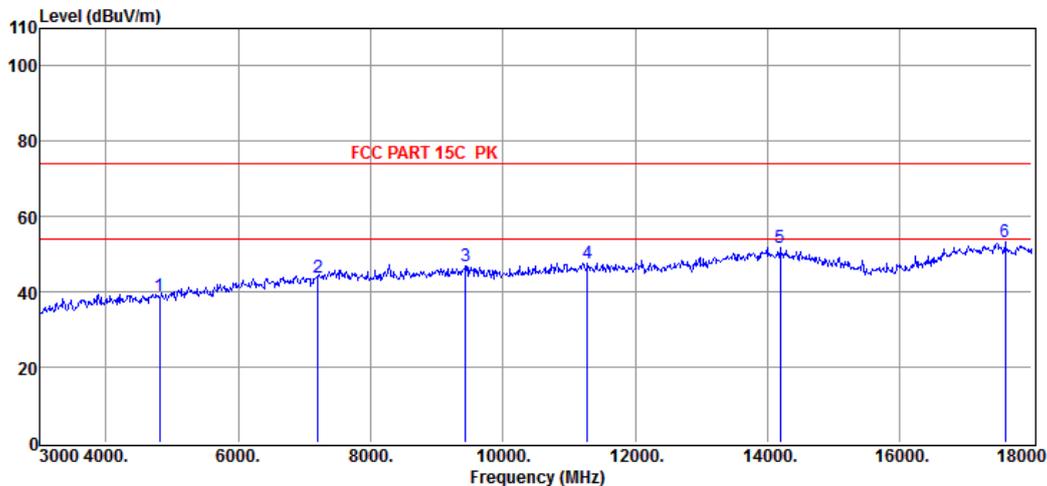
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 1M 2402

Data: 181



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4804.00	0.78	39.04	74.00	-34.96	158	205	Peak	HORIZONTAL
2	7206.00	5.72	43.84	74.00	-30.16	158	4	Peak	HORIZONTAL
3	9435.00	8.05	46.87	74.00	-27.13	168	265	Peak	HORIZONTAL
4	11280.00	10.15	47.68	74.00	-26.32	186	130	Peak	HORIZONTAL
5	14190.00	13.97	51.78	74.00	-22.22	168	339	Peak	HORIZONTAL
6	17595.00	15.43	53.15	74.00	-20.85	153	62	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

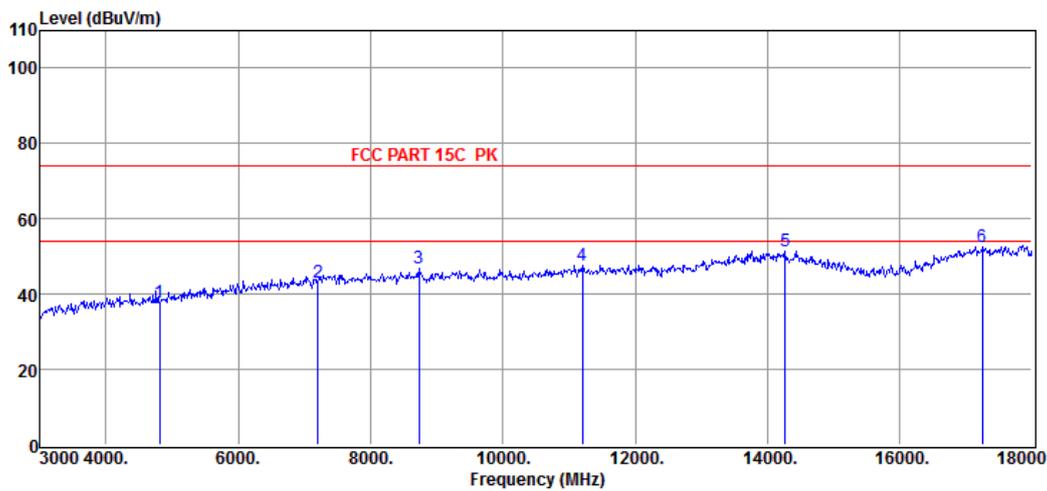
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 1M 2402

Data: 182



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4804.00	0.78	37.89	74.00	-36.11	167	296	Peak	VERTICAL
2	7206.00	5.72	42.99	74.00	-31.01	158	194	Peak	VERTICAL
3	8730.00	6.66	46.72	74.00	-27.28	167	237	Peak	VERTICAL
4	11205.00	10.38	47.78	74.00	-26.22	158	276	Peak	VERTICAL
5	14265.00	13.28	51.36	74.00	-22.64	187	174	Peak	VERTICAL
6	17250.00	15.69	52.72	74.00	-21.28	190	280	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

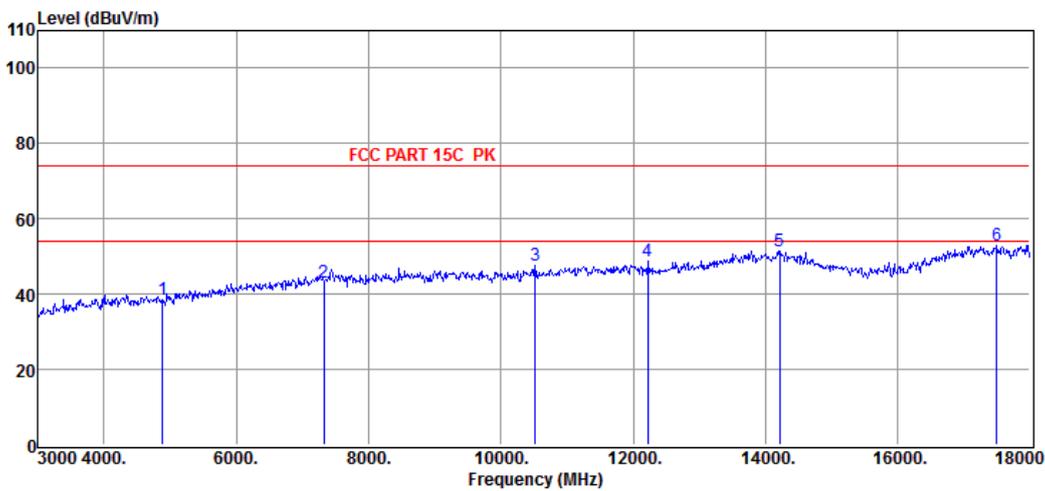
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 1M 2440

Data: 183



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4880.00	0.92	38.46	74.00	-35.54	167	236	Peak	VERTICAL
2	7320.00	6.39	42.96	74.00	-31.04	184	169	Peak	VERTICAL
3	10515.00	8.97	47.45	74.00	-26.55	179	16	Peak	VERTICAL
4	12225.00	9.58	48.69	74.00	-25.31	151	202	Peak	VERTICAL
5	14220.00	13.82	51.54	74.00	-22.46	174	118	Peak	VERTICAL
6	17505.00	15.59	53.10	74.00	-20.90	161	160	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

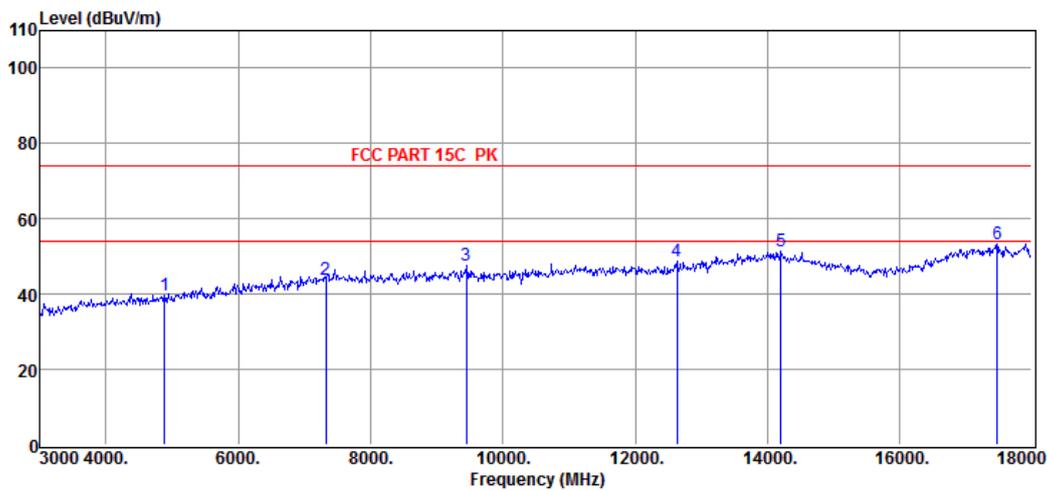
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 1M 2440

Data: 184



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4880.00	0.92	39.57	74.00	-34.43	162	319	Peak	HORIZONTAL
2	7320.00	6.39	43.96	74.00	-30.04	173	326	Peak	HORIZONTAL
3	9450.00	7.98	47.49	74.00	-26.51	166	235	Peak	HORIZONTAL
4	12630.00	9.83	48.65	74.00	-25.35	179	314	Peak	HORIZONTAL
5	14205.00	14.01	51.26	74.00	-22.74	174	228	Peak	HORIZONTAL
6	17475.00	15.60	53.40	74.00	-20.60	175	104	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

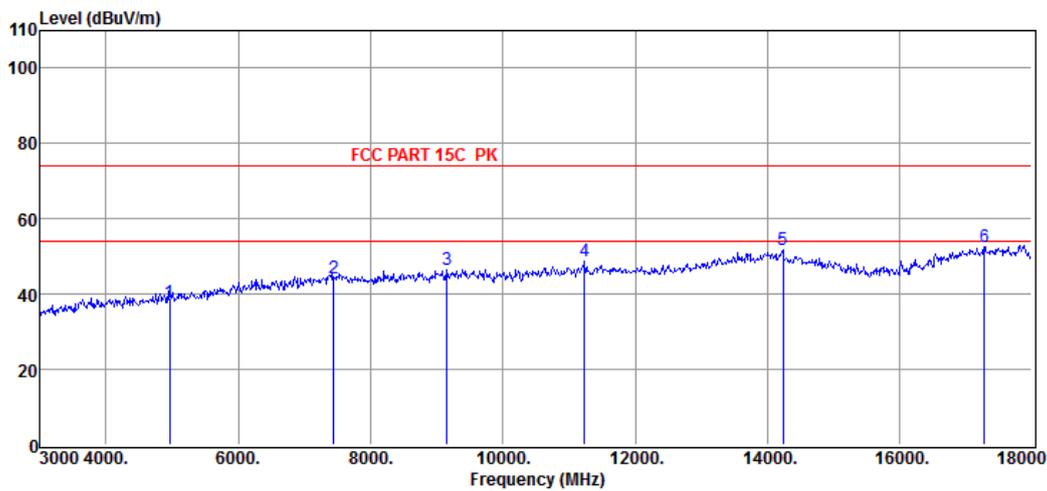
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 1M 2480

Data: 185



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4960.00	1.19	37.93	74.00	-36.07	177	299	Peak	HORIZONTAL
2	7440.00	6.43	44.08	74.00	-29.92	177	92	Peak	HORIZONTAL
3	9150.00	7.17	46.67	74.00	-27.33	151	95	Peak	HORIZONTAL
4	11235.00	10.29	48.87	74.00	-25.13	154	29	Peak	HORIZONTAL
5	14235.00	13.64	51.84	74.00	-22.16	165	67	Peak	HORIZONTAL
6	17280.00	15.77	52.73	74.00	-21.27	155	73	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

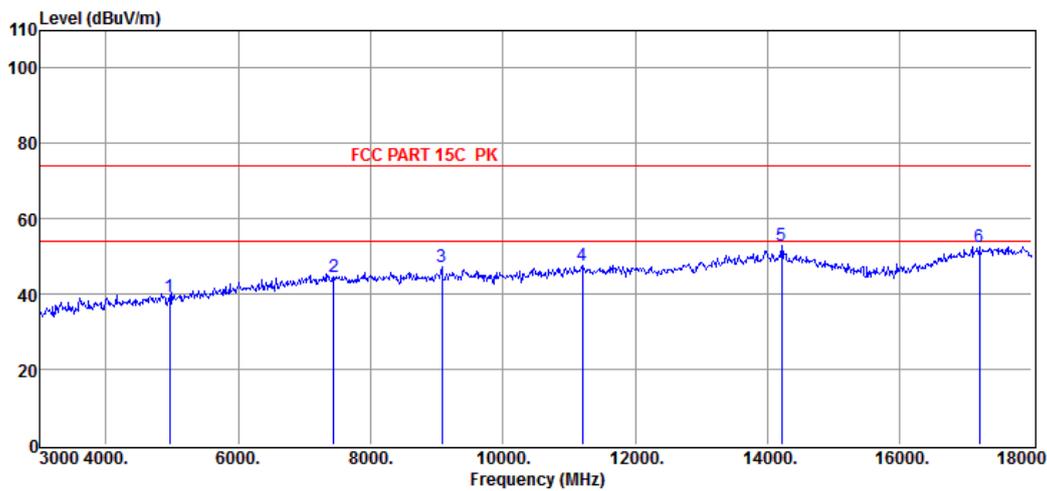
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 1M 2480

Data: 186



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4960.00	1.19	39.47	74.00	-34.53	173	25	Peak	VERTICAL
2	7440.00	6.43	44.65	74.00	-29.35	169	51	Peak	VERTICAL
3	9075.00	7.08	47.07	74.00	-26.93	174	106	Peak	VERTICAL
4	11205.00	10.38	47.76	74.00	-26.24	153	192	Peak	VERTICAL
5	14220.00	13.82	52.99	74.00	-21.01	152	44	Peak	VERTICAL
6	17205.00	15.57	52.52	74.00	-21.48	177	352	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

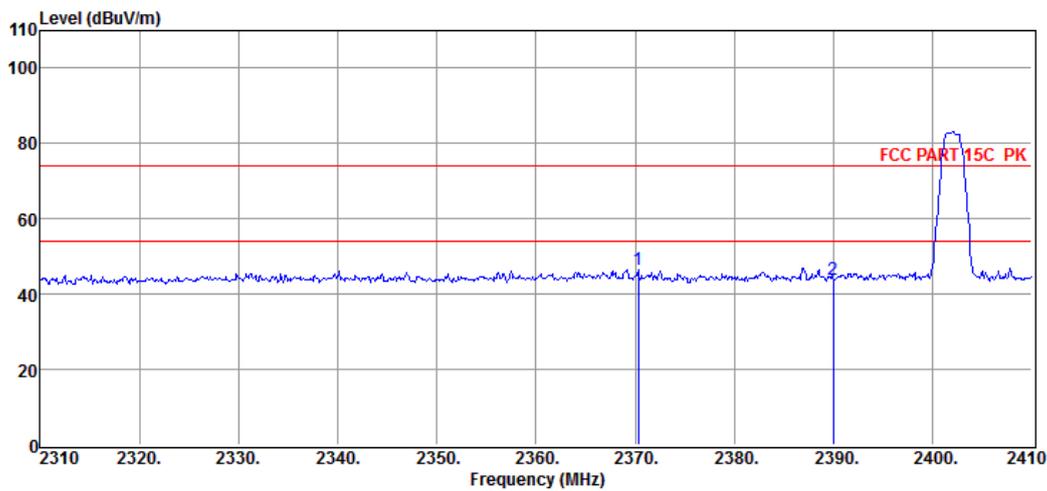
**Test Date** : 01-10-2022      **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC      **Model Number** : XQ-AD52

**Power Supply** : Battery      **Test Mode** : Tx mode

**Memo** : BLE 2M 2402

Data: 187



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2370.30	3.24	46.63	74.00	-27.37	163	100	Peak	VERTICAL
2	2390.00	3.30	43.73	74.00	-30.27	163	299	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

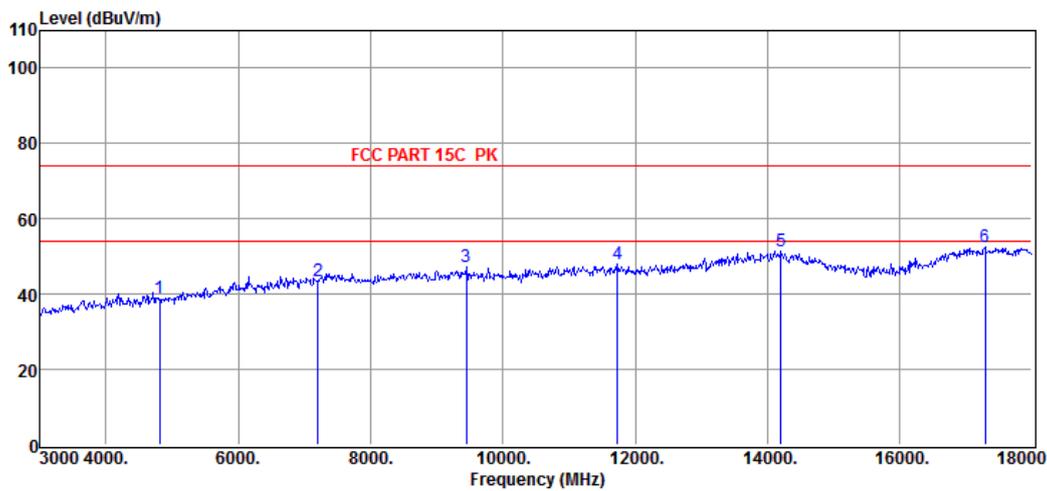
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 2M 2402

Data: 197



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4804.00	0.78	38.79	74.00	-35.21	161	179	Peak	HORIZONTAL
2	7206.00	5.72	43.33	74.00	-30.67	181	88	Peak	HORIZONTAL
3	9450.00	7.98	47.32	74.00	-26.68	190	239	Peak	HORIZONTAL
4	11730.00	10.02	48.00	74.00	-26.00	184	342	Peak	HORIZONTAL
5	14205.00	14.01	51.59	74.00	-22.41	172	140	Peak	HORIZONTAL
6	17295.00	15.81	52.50	74.00	-21.50	177	87	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

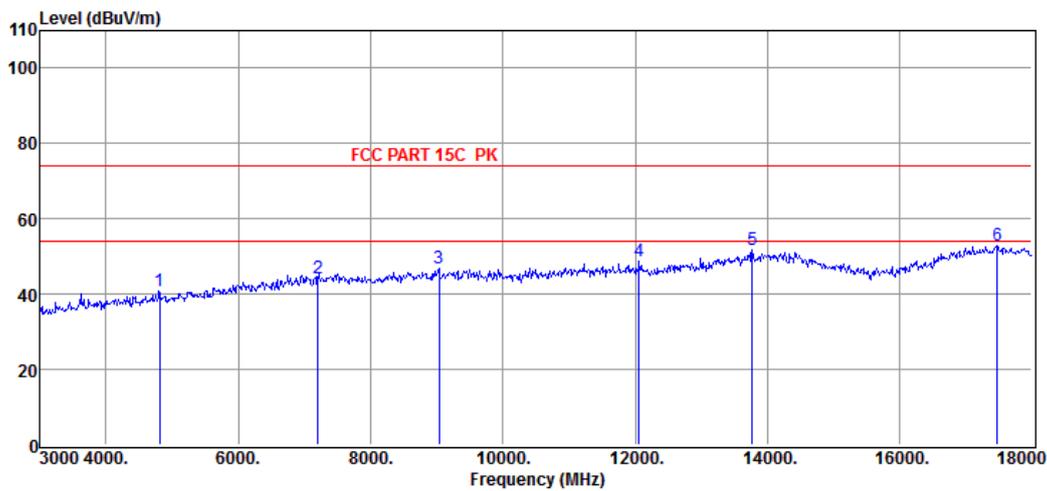
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 2M 2402

Data: 198



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4804.00	0.78	40.78	74.00	-33.22	163	44	Peak	VERTICAL
2	7206.00	5.72	44.35	74.00	-29.65	172	354	Peak	VERTICAL
3	9030.00	7.14	46.71	74.00	-27.29	164	109	Peak	VERTICAL
4	12060.00	9.84	48.78	74.00	-25.22	182	285	Peak	VERTICAL
5	13770.00	11.98	51.70	74.00	-22.30	165	174	Peak	VERTICAL
6	17475.00	15.60	53.11	74.00	-20.89	168	130	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

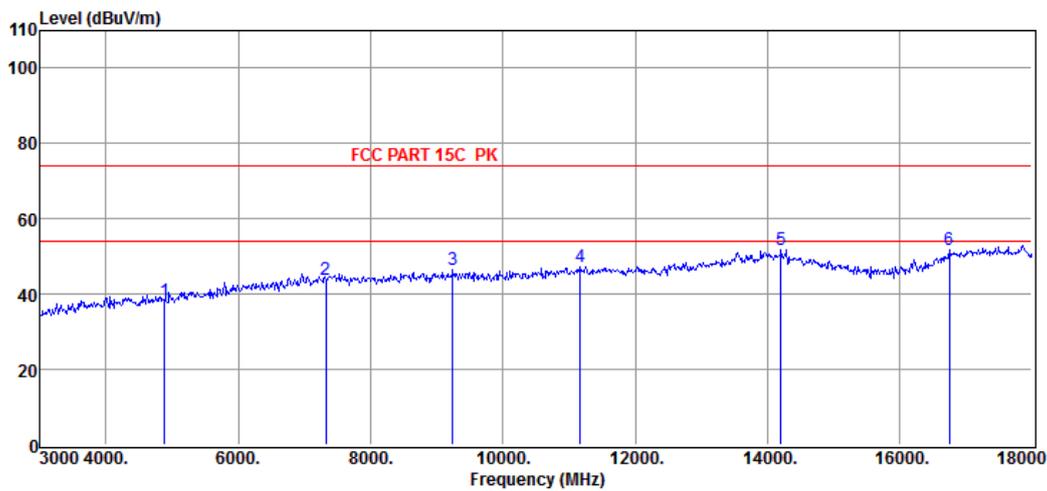
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 2M 2440

Data: 199



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4880.00	0.92	38.33	74.00	-35.67	171	121	Peak	VERTICAL
2	7320.00	6.39	43.79	74.00	-30.21	180	331	Peak	VERTICAL
3	9240.00	7.43	46.59	74.00	-27.41	165	37	Peak	VERTICAL
4	11175.00	10.30	47.19	74.00	-26.81	190	90	Peak	VERTICAL
5	14205.00	14.01	51.88	74.00	-22.12	170	121	Peak	VERTICAL
6	16755.00	14.88	51.96	74.00	-22.04	185	291	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

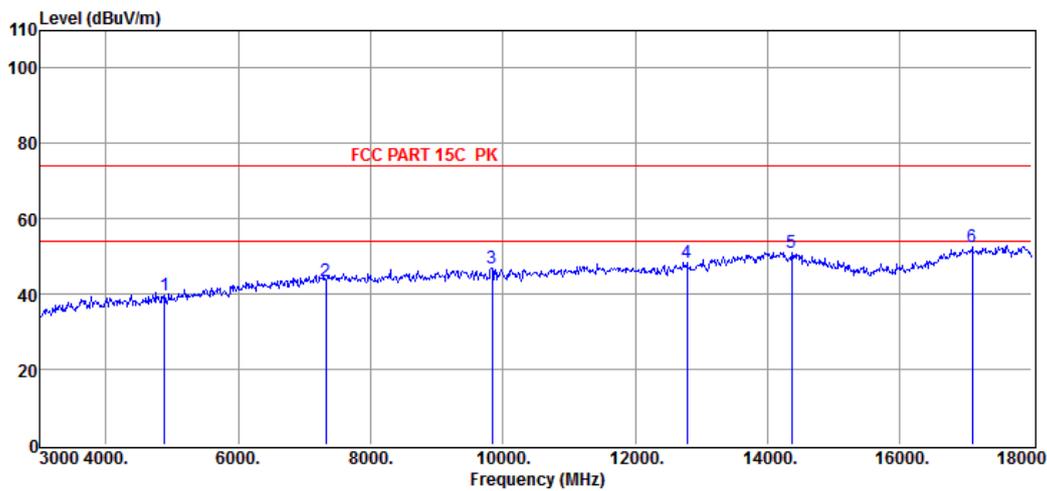
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 2M 2440

Data: 200



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4880.00	0.92	39.64	74.00	-34.36	167	129	Peak	HORIZONTAL
2	7320.00	6.39	43.39	74.00	-30.61	171	341	Peak	HORIZONTAL
3	9840.00	8.18	47.02	74.00	-26.98	170	219	Peak	HORIZONTAL
4	12780.00	9.66	48.30	74.00	-25.70	176	160	Peak	HORIZONTAL
5	14370.00	13.53	51.21	74.00	-22.79	187	18	Peak	HORIZONTAL
6	17100.00	15.56	52.66	74.00	-21.34	176	69	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

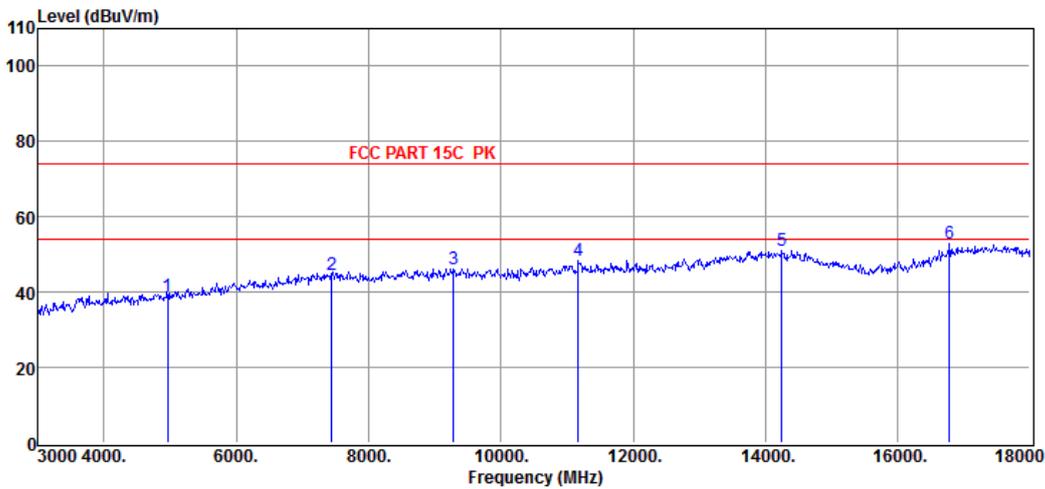
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 2M 2480

Data: 201



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4960.00	1.19	38.90	74.00	-35.10	169	134	Peak	HORIZONTAL
2	7440.00	6.43	44.54	74.00	-29.46	167	314	Peak	HORIZONTAL
3	9285.00	7.61	46.16	74.00	-27.84	153	224	Peak	HORIZONTAL
4	11175.00	10.30	48.31	74.00	-25.69	171	267	Peak	HORIZONTAL
5	14250.00	13.46	51.08	74.00	-22.92	183	252	Peak	HORIZONTAL
6	16785.00	15.26	52.95	74.00	-21.05	167	252	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

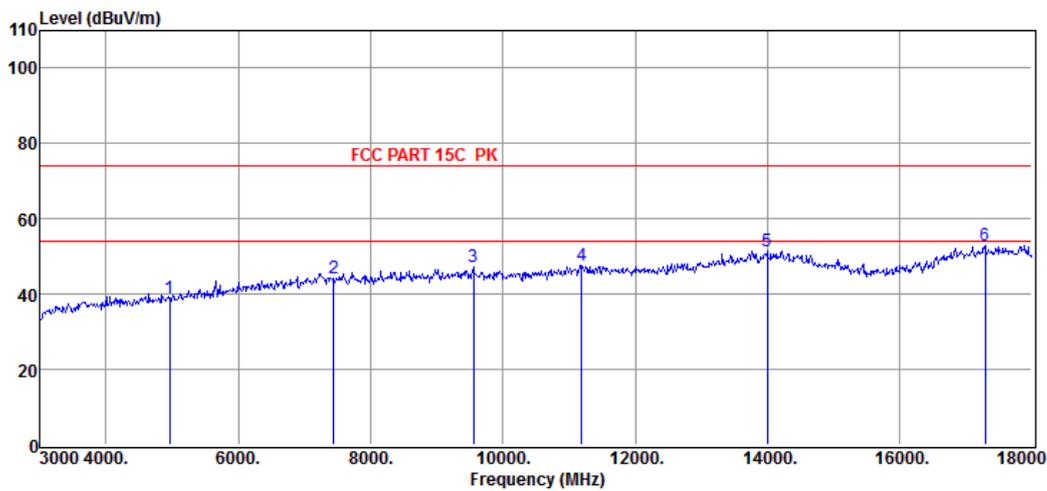
**Test Date** : 01-10-2022      **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC      **Model Number** : XQ-AD52

**Power Supply** : Battery      **Test Mode** : Tx mode

**Memo** : BLE 2M 2480

Data: 202



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4960.00	1.19	39.08	74.00	-34.92	181	13	Peak	VERTICAL
2	7440.00	6.43	44.40	74.00	-29.60	150	137	Peak	VERTICAL
3	9555.00	7.95	47.19	74.00	-26.81	164	98	Peak	VERTICAL
4	11190.00	10.36	47.65	74.00	-26.35	155	160	Peak	VERTICAL
5	13995.00	12.98	51.47	74.00	-22.53	168	338	Peak	VERTICAL
6	17295.00	15.81	52.87	74.00	-21.13	179	240	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.

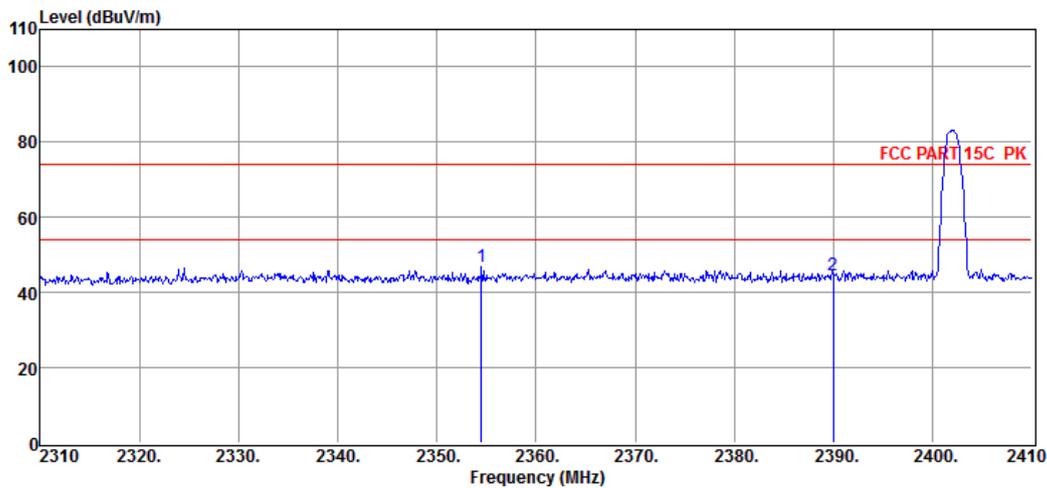


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## Restricted bands around fundamental frequency

**Test Site** : 10m Chamber  
**Test Date** : 01-10-2022 **Tested By** : Sunny  
**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52  
**Power Supply** : Battery **Test Mode** : Tx mode  
**Memo** : BLE 1M 2402

Data: 171



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2354.50	3.20	46.84	74.00	-27.16	163	247	Peak	VERTICAL
2	2390.00	3.30	44.58	74.00	-29.42	167	202	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

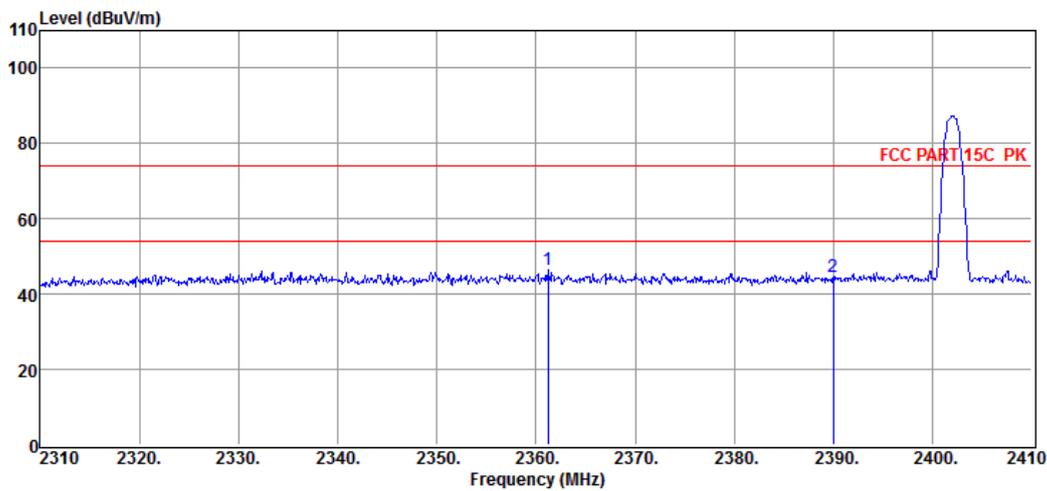
**Test Date** : 01-10-2022      **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC      **Model Number** : XQ-AD52

**Power Supply** : Battery      **Test Mode** : Tx mode

**Memo** : BLE 1M 2402

Data: 172



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2361.20	3.22	46.66	74.00	-27.34	173	227	Peak	HORIZONTAL
2	2390.00	3.30	44.42	74.00	-29.58	155	26	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

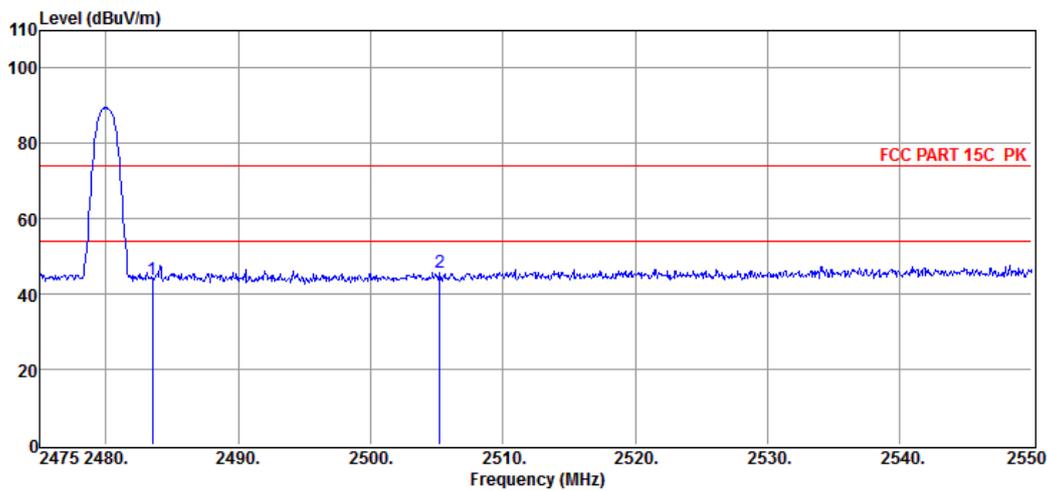
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 1M 2480

Data: 173



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2483.50	3.52	43.92	74.00	-30.08	170	325	Peak	HORIZONTAL
2	2505.23	3.76	45.80	74.00	-28.20	183	16	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

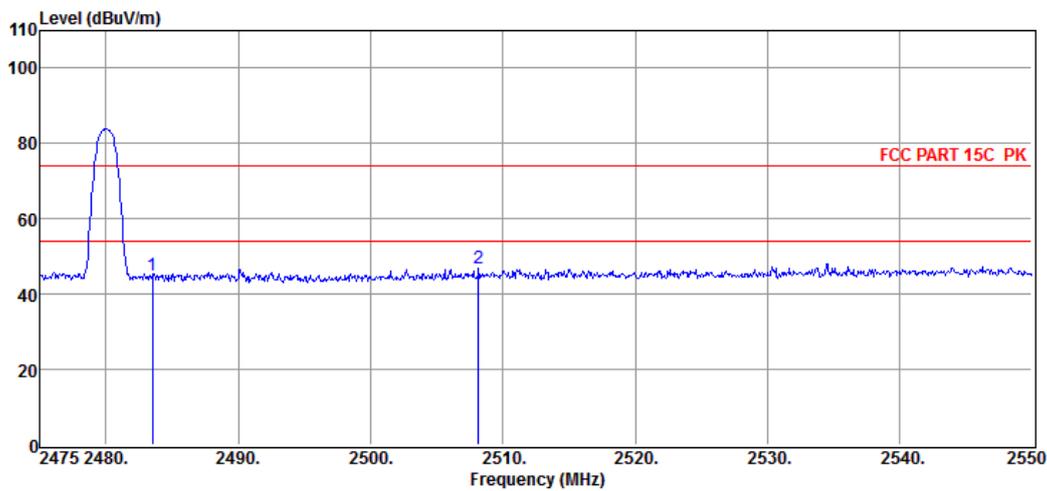
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 1M 2480

Data: 174



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2483.50	3.52	45.15	74.00	-28.85	153	244	Peak	VERTICAL
2	2508.15	3.83	46.73	74.00	-27.27	156	221	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.

**Test Site** : 10m Chamber



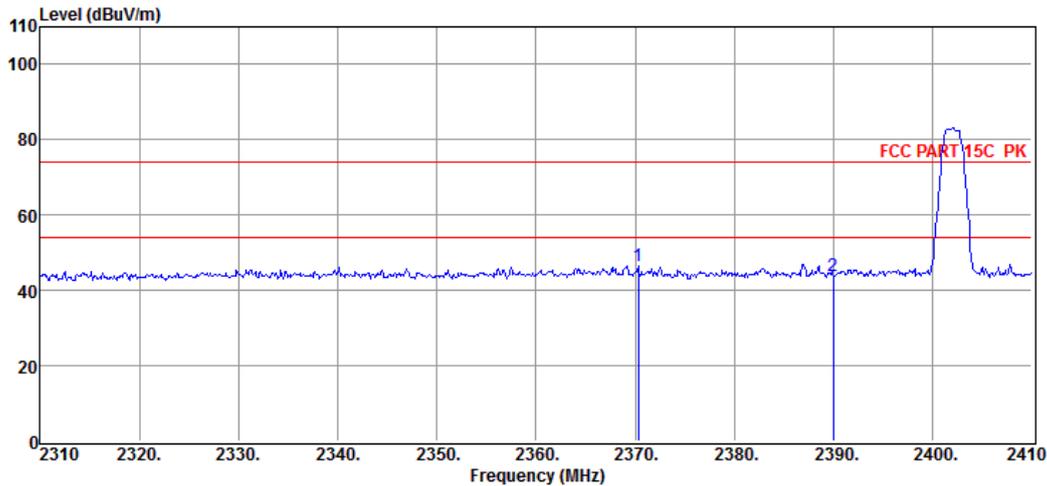
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 Rev.: 01  
 Page: 107 of 110

**Test Date** : 01-10-2022 **Tested By** : Sunny  
**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52  
**Power Supply** : Battery **Test Mode** : Tx mode  
**Memo** : BLE 2M 2402

Data: 187



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2370.30	3.24	46.63	74.00	-27.37	163	100	Peak	VERTICAL
2	2390.00	3.30	43.73	74.00	-30.27	163	299	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

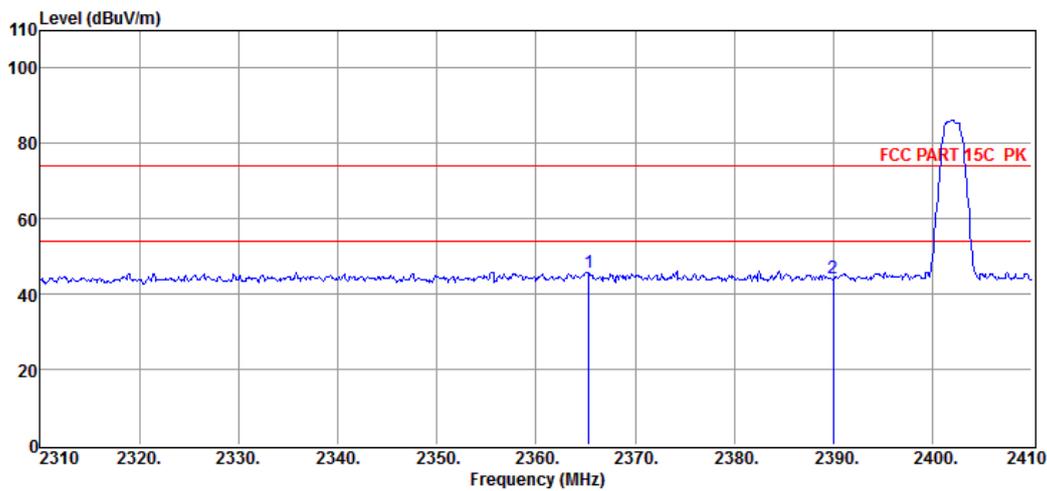
**Test Date** : 01-10-2022      **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC      **Model Number** : XQ-AD52

**Power Supply** : Battery      **Test Mode** : Tx mode

**Memo** : BLE 2M 2402

Data: 188



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2365.30	3.23	45.75	74.00	-28.25	166	243	Peak	HORIZONTAL
2	2390.00	3.30	44.27	74.00	-29.73	176	82	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



**Test Site** : 10m Chamber

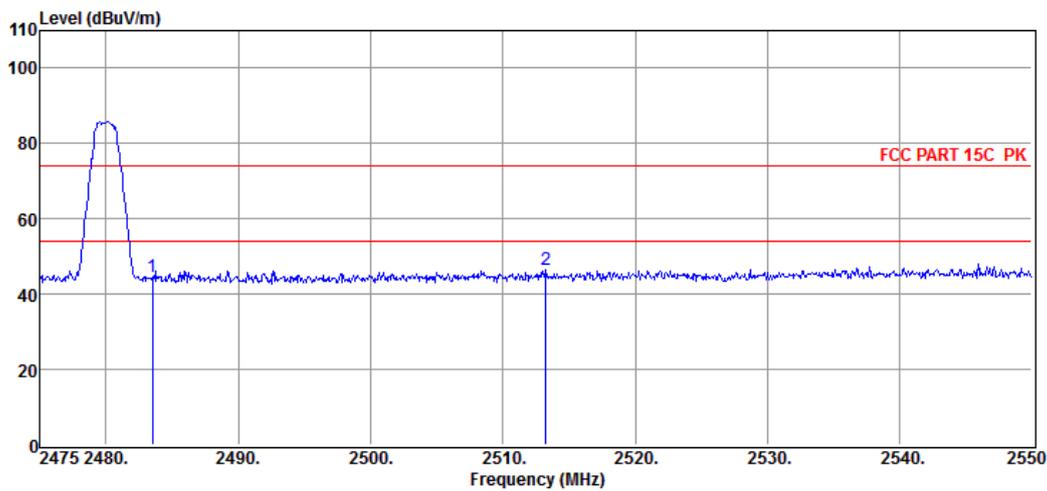
**Test Date** : 01-10-2022      **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT,  
 DTS/UNII a/b/g/n, GPS and NFC      **Model Number** : XQ-AD52

**Power Supply** : Battery      **Test Mode** : Tx mode

**Memo** : BLE 2M 2480

Data: 189



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2483.50	3.52	44.53	74.00	-29.47	170	331	Peak	HORIZONTAL
2	2513.25	3.94	46.53	74.00	-27.47	169	255	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.



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**Test Site** : 10m Chamber

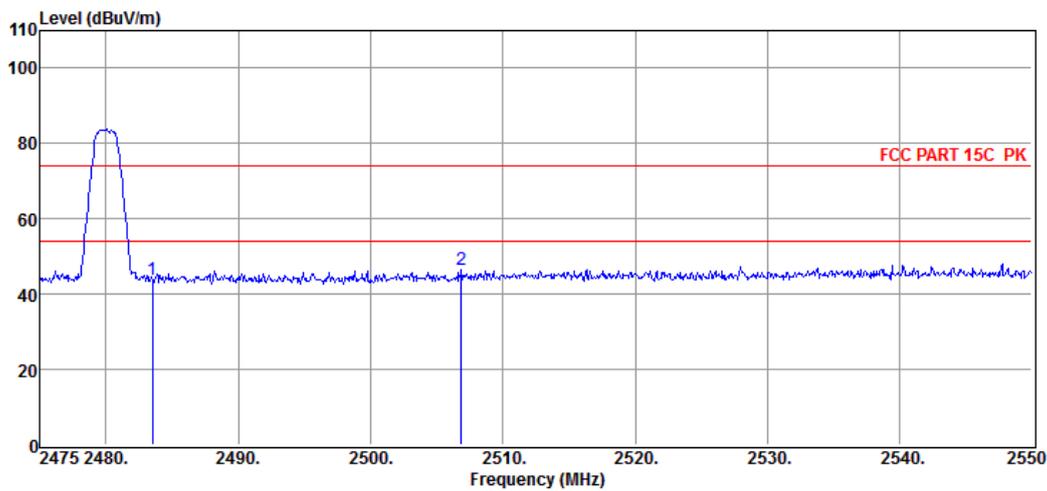
**Test Date** : 01-10-2022 **Tested By** : Sunny

**EUT** : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC **Model Number** : XQ-AD52

**Power Supply** : Battery **Test Mode** : Tx mode

**Memo** : BLE 2M 2480

Data: 190



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/ m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2483.50	3.52	43.91	74.00	-30.09	174	270	Peak	VERTICAL
2	2506.88	3.80	46.54	74.00	-27.46	156	147	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Margin = Result Level – Limit.

The End

