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World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.



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TEST REPORT

FCC ID: 2AXYP-OSW-814

Product: Smart Watch

Model No.: OSW-814

Trade Mark: oraimo

Report No.: WSCT-ANAB-R&E250600039A-LE

Issued Date: 24 June 2025

Issued for:

ORAIMO TECHNOLOGY LIMITED
FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25
SHAN MEI STREET/FOTAN NT HONGKONG

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd.
Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan
Street, Bao'an District, Shenzhen City, Guangdong Province, China

TEL: +86-755-26996192

FAX: +86-755-86376605



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Report No.: WSCT-ANAB-R&E250600039A-LE



ANAB
ANSI National Accreditation Board
ACCREDITED
1300-08-21703
TESTING LABORATORY
Certificate Number: AT-3951

1. Test Certification

Product:	Smart Watch
Model No.:	OSW-814
Trade Mark:	oraimo
Applicant:	ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Date of Test:	13 May 2025 to 23 June 2025
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Wang Xiang
(Wang Xiang)

Checked By: Qin Shuiquan
(Qin Shuiquan)



Approved By: Li Huaibi
(Li Huaibi)

Date: 24 June 2025



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product Name:	Smart Watch
Model :	OSW-814
Trade Mark:	oraimo
Software Version	1.0.9
Hardware Version	AT281SV02
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	Integral Antenna
Antenna Gain:	-3.5dBi
Operating Voltage	Rechargeable Li-ion Polymer Battery: 552125 Nominal Voltage: 3.8V Rated Capacity: 350mAh/1.33Wh
Remark:	N/A.

Operation Frequency each of 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
...
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Remark: Channel 0, 19 & 39 have been tested.

4. General Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.
The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	XCU32	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



5. Facilities and Accreditations

5.1. Facilities

All measurement facilities used to collect the measurement data are located at **World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.** **Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China**

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:2017.

USA	ANAB - Certificate Number: AT-3951
China	CNAS (Registration Number: L3732)
Canada	ISED(CAB identifier:CN0178)

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.wsct-cert.com>



5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Power Spectral Density	$\pm 3.2\text{dB}$
2	Duty Cycle and Tx-Sequence and Tx-Gap	$\pm 1\%$
3	Medium Utilisation Factor	$\pm 1.3\%$
4	Occupied Channel Bandwidth	$\pm 2.4\%$
5	Transmitter Unwanted Emission in the out-of Band	$\pm 1.3\%$
6	Transmitter Unwanted Emissions in the Spurious Domain	$\pm 2.5\%$
7	Receiver Spurious Emissions	$\pm 2.5\%$
8	Conducted Emission Test	$\pm 3.2\text{dB}$
9	RF power, conducted	$\pm 0.16\text{dB}$
10	Spurious emissions, conducted	$\pm 0.21\text{dB}$
11	All emissions, radiated(<1GHz)	$\pm 4.7\text{dB}$
12	All emissions, radiated(>1GHz)	$\pm 4.7\text{dB}$
13	Temperature	$\pm 0.5^\circ\text{C}$
14	Humidity	$\pm 2.0\%$



5.4. MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
Test software	--	EZ-EMC	CON-03A	-	-
Test software	--	MTS8310		-	-
EMI Test Receiver	R&S	ESCI	100005	2024-11-05	2025-11-04
LISN	AFJ	LS16	16010222119	2024-11-05	2025-11-04
LISN(EUT)	Mestec	AN3016	04/10040	2024-11-05	2025-11-04
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	2024-11-05	2025-11-04
Coaxial cable	Megalon	LMR400	N/A	2024-11-05	2025-11-04
GPIB cable	Megalon	GPIB	N/A	2024-11-05	2025-11-04
Spectrum Analyzer	R&S	FSU	100114	2024-11-05	2025-11-04
Pre Amplifier	H.P.	HP8447E	2945A02715	2024-11-05	2025-11-04
Pre-Amplifier	CDSI	PAP-1G18-38	--	2024-11-05	2025-11-04
Bi-log Antenna	SCHWARZBECK	VULB9168	01488	2024-11-05	2025-11-04
9*6*6 Anechoic	--	--	--	2024-11-05	2025-11-04
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	2024-11-05	2025-11-04
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	2024-11-05	2025-11-04
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	2024-11-05	2025-11-04
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	-	2024-11-05	2025-11-04
Loop Antenna	EMCO	6502	00042960	2024-11-05	2025-11-04
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	2024-11-05	2025-11-04
Power meter	Anritsu	ML2487A	6K00003613	2024-11-05	2025-11-04
Power sensor	Anritsu	MX248XD	--	2024-11-05	2025-11-04
Spectrum Analyzer	Keysight	N9010B	MY60241089	2024-11-05	2025-11-04



6. Test Results and Measurement Data

6.1.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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.	
15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
E.U.T Antenna:	
The Bluetooth antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is -3.5dBi.	
Please refer to the attachment "OSW-814 Internal Photo" for the antenna location	

6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2014														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	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
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													
Test Setup:	<p>Reference Plane</p> <p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test Mode:	Charging + Transmitting Mode														
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2014 on conducted measurement. 														
Test Result:	PASS														

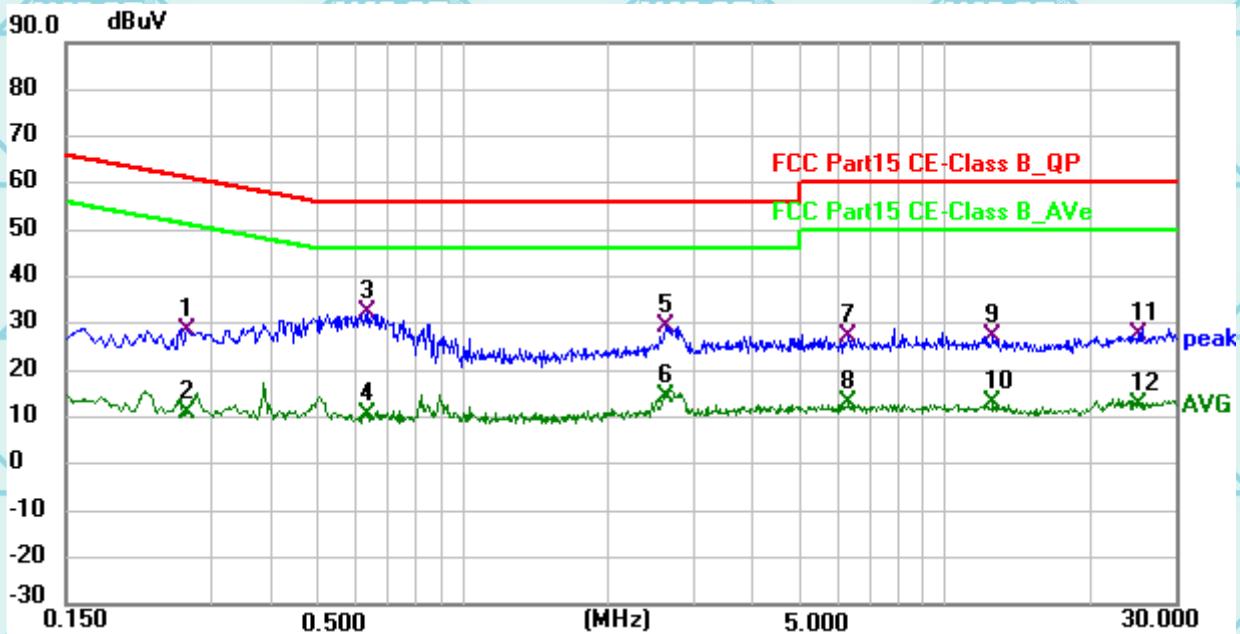
6.2.2. EUT OPERATING CONDITIONS

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Test data:

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)

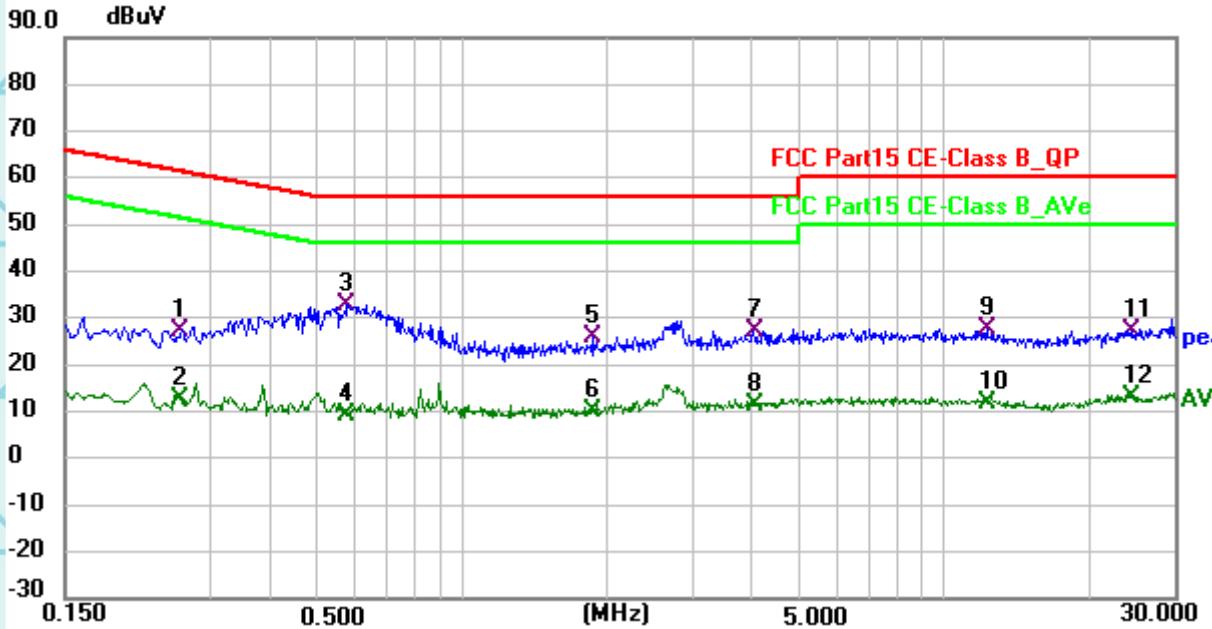


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2670	8.00	20.65	28.65	61.21	-32.56	QP
2	0.2670	-9.83	20.65	10.82	51.21	-40.39	AVG
3 *	0.6360	11.71	20.53	32.24	56.00	-23.76	QP
4	0.6360	-10.13	20.53	10.40	46.00	-35.60	AVG
5	2.6475	8.73	20.60	29.33	56.00	-26.67	QP
6	2.6475	-6.39	20.60	14.21	46.00	-31.79	AVG
7	6.3015	6.62	20.53	27.15	60.00	-32.85	QP
8	6.3015	-7.58	20.53	12.95	50.00	-37.05	AVG
9	12.5340	6.72	20.31	27.03	60.00	-32.97	QP
10	12.5340	-7.29	20.31	13.02	50.00	-36.98	AVG
11	25.1700	7.13	20.62	27.75	60.00	-32.25	QP
12	25.1700	-7.91	20.62	12.71	50.00	-37.29	AVG



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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

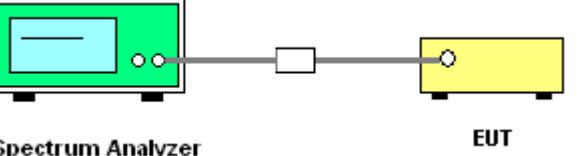


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2615	6.77	20.65	27.42	61.38	-33.96	QP
2	0.2615	-7.86	20.65	12.79	51.38	-38.59	AVG
3 *	0.5775	12.43	20.52	32.95	56.00	-23.05	QP
4	0.5775	-11.43	20.52	9.09	46.00	-36.91	AVG
5	1.8645	5.43	20.62	26.05	56.00	-29.95	QP
6	1.8645	-10.68	20.62	9.94	46.00	-36.06	AVG
7	4.0109	6.66	20.58	27.24	56.00	-28.76	QP
8	4.0109	-9.12	20.58	11.46	46.00	-34.54	AVG
9	12.3090	7.38	20.32	27.70	60.00	-32.30	QP
10	12.3090	-8.36	20.32	11.96	50.00	-38.04	AVG
11	24.5760	6.66	20.57	27.23	60.00	-32.77	QP
12	24.5760	-7.38	20.57	13.19	50.00	-36.81	AVG



6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074
Limit:	30dBm
Test Setup:	 <p>Spectrum Analyzer EUT</p>
Test Mode:	Refer to item 4.1
Test Procedure:	<ol style="list-style-type: none"> 1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. 2. Set spectrum analyzer as following: <ol style="list-style-type: none"> a) Set the RBW \geq DTS bandwidth. b) Set VBW $\geq 3 \times$ RBW. c) Set span $\geq 3 \times$ 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.
Test Result:	PASS

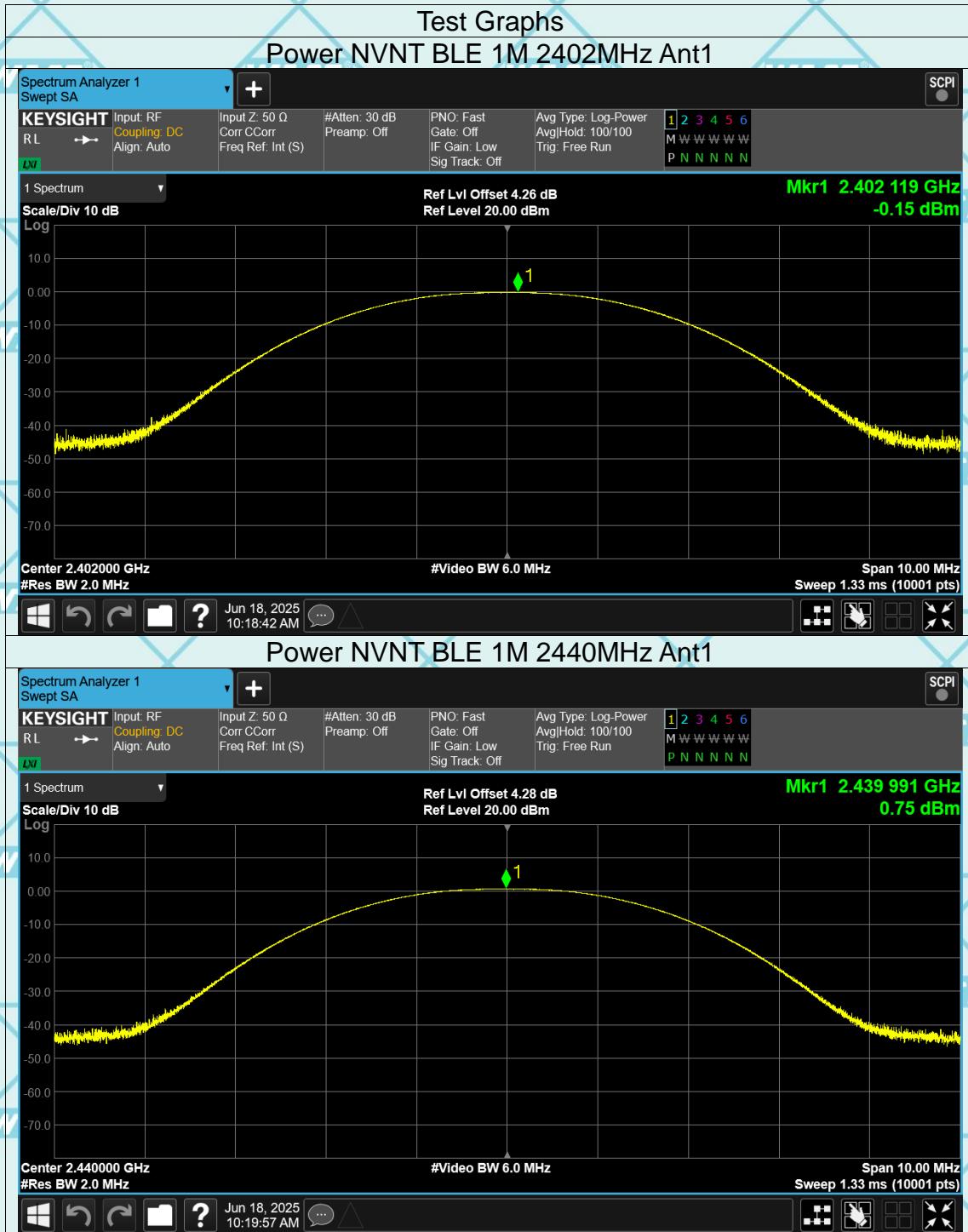
6.3.2. Test Data

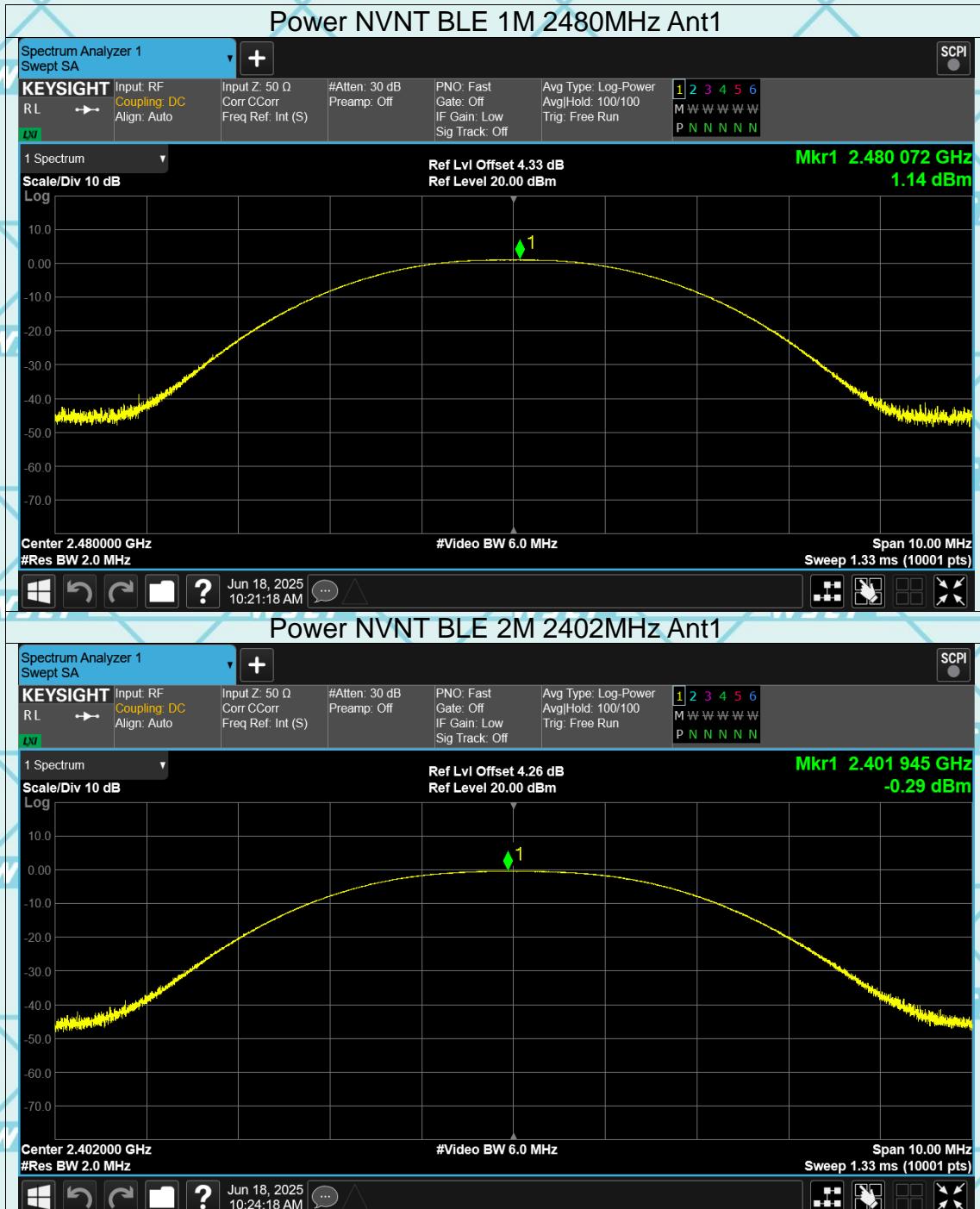
BLE 1M			
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
Lowest	-0.15	30.00	PASS
Middle	0.75	30.00	PASS
Highest	1.14	30.00	PASS

BLE 2M			
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
Lowest	-0.29	30.00	PASS
Middle	0.58	30.00	PASS
Highest	0.98	30.00	PASS

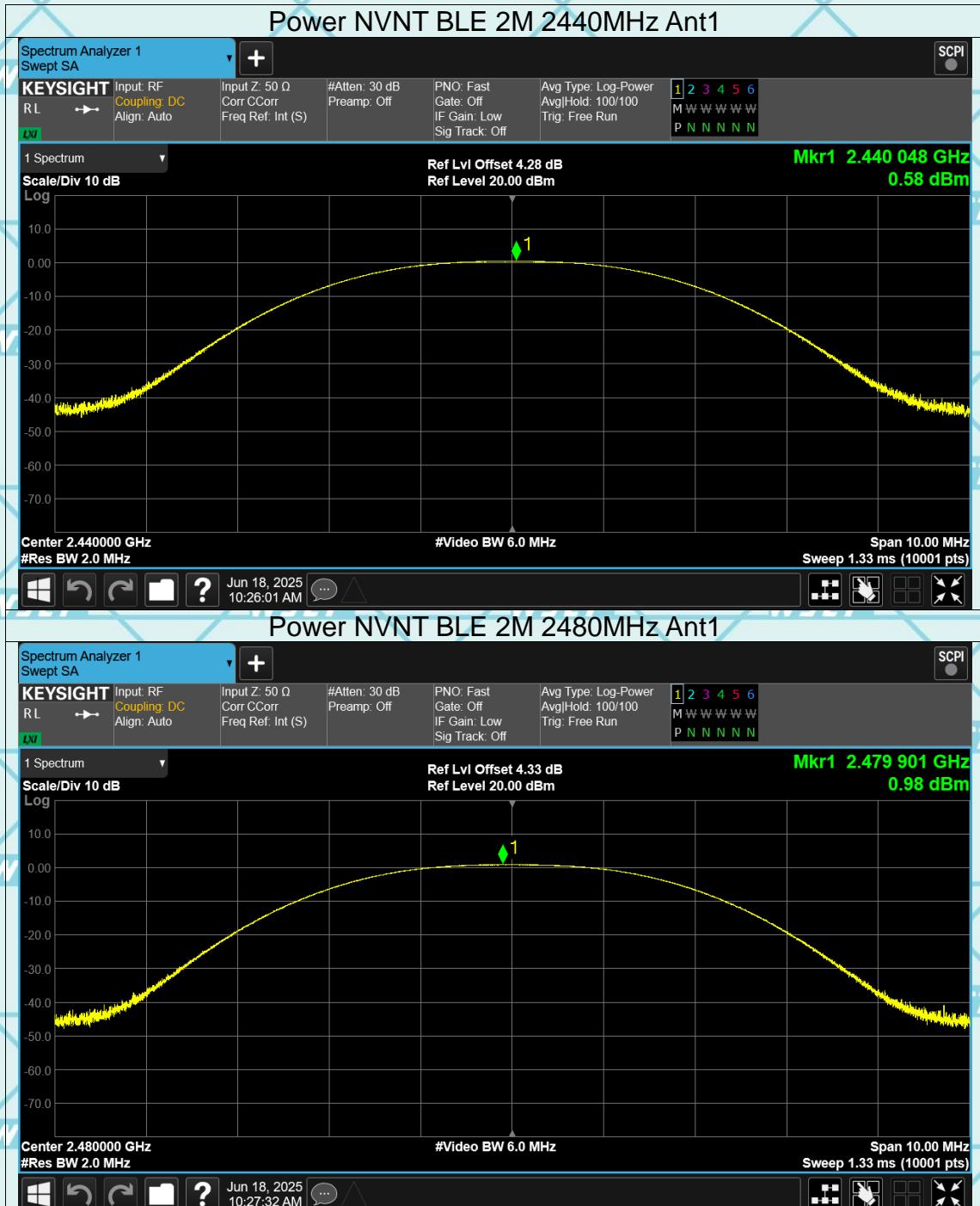
Test plots as follows:





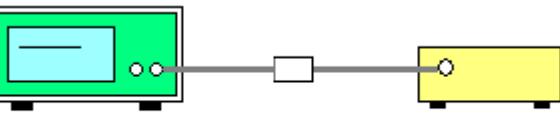


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6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074
Limit:	>500kHz
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Refer to item 4.1
Test Procedure:	<ol style="list-style-type: none"> 1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test data

BLE 1M

Test channel	6dB Emission Bandwidth (kHz)		
	BT LE mode	Limit	Result
Lowest	704.0	>500k	
Middle	702.4	>500k	
Highest	662.8	>500k	PASS

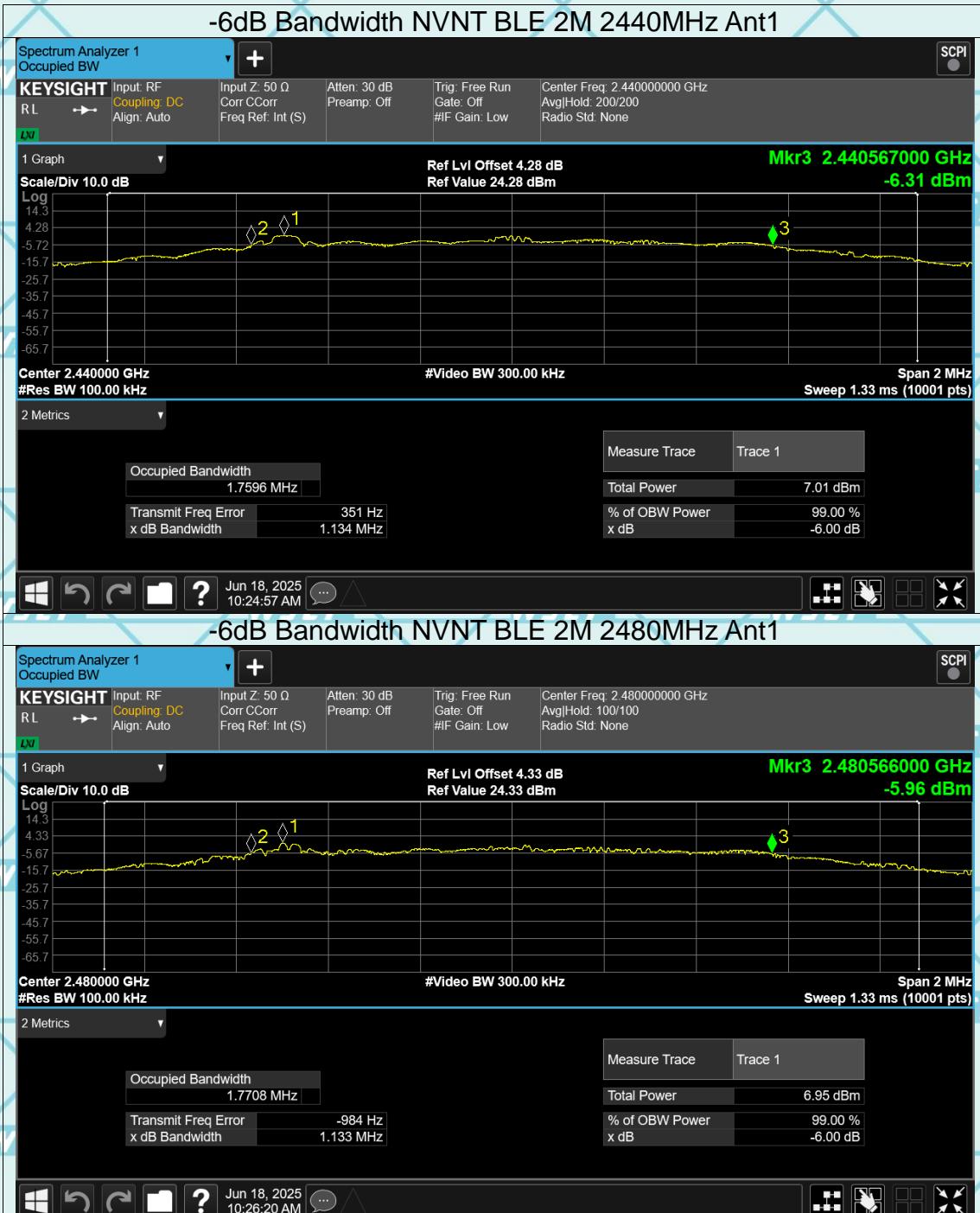
BLE 2M

Test channel	6dB Emission Bandwidth (kHz)		
	BT LE mode	Limit	Result
Lowest	1111	>500k	
Middle	1134	>500k	
Highest	1133	>500k	PASS

Test plots as follows:







6.5. Power Spectral Density

6.5.1. Test Specification

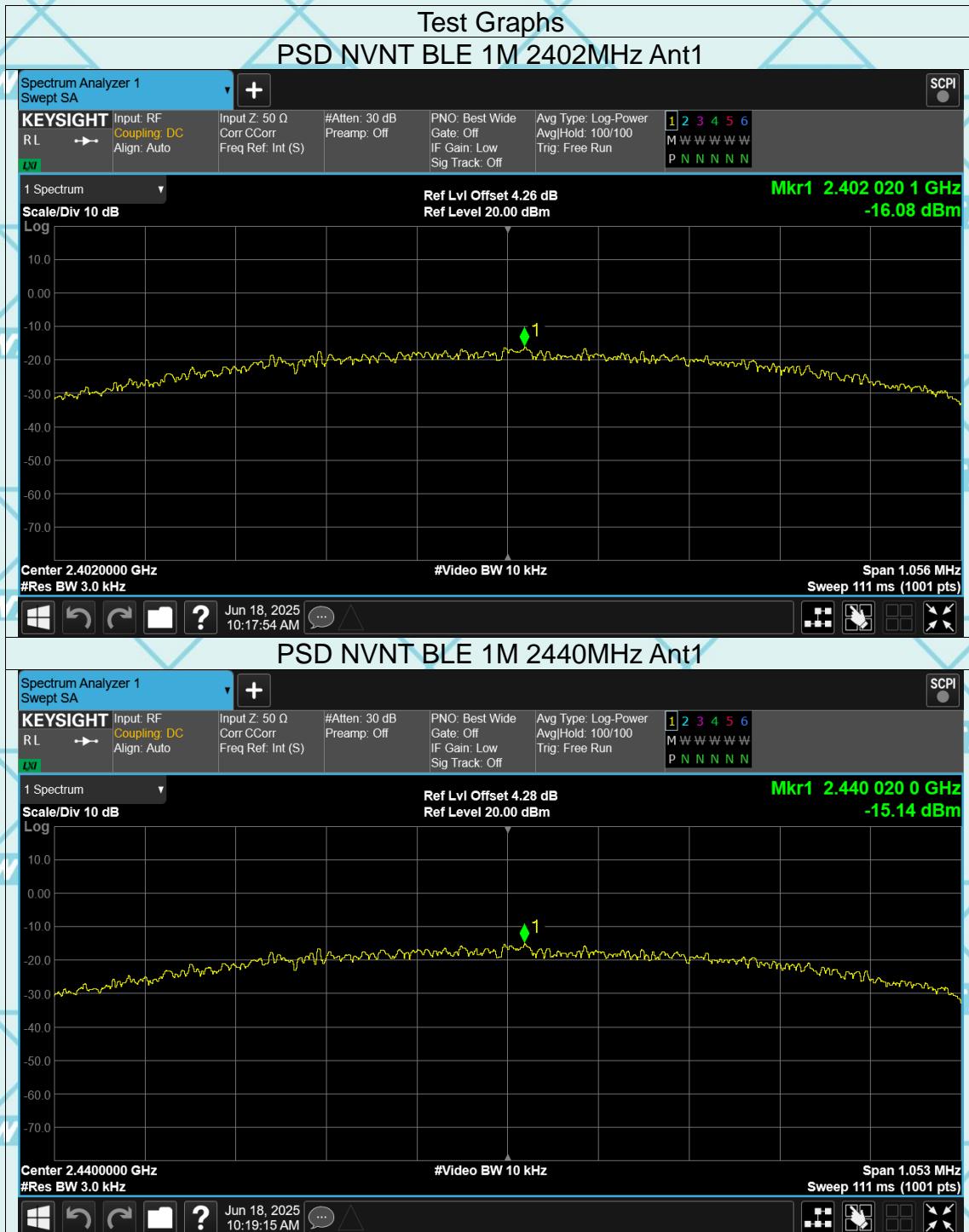
6.5.2. Test data

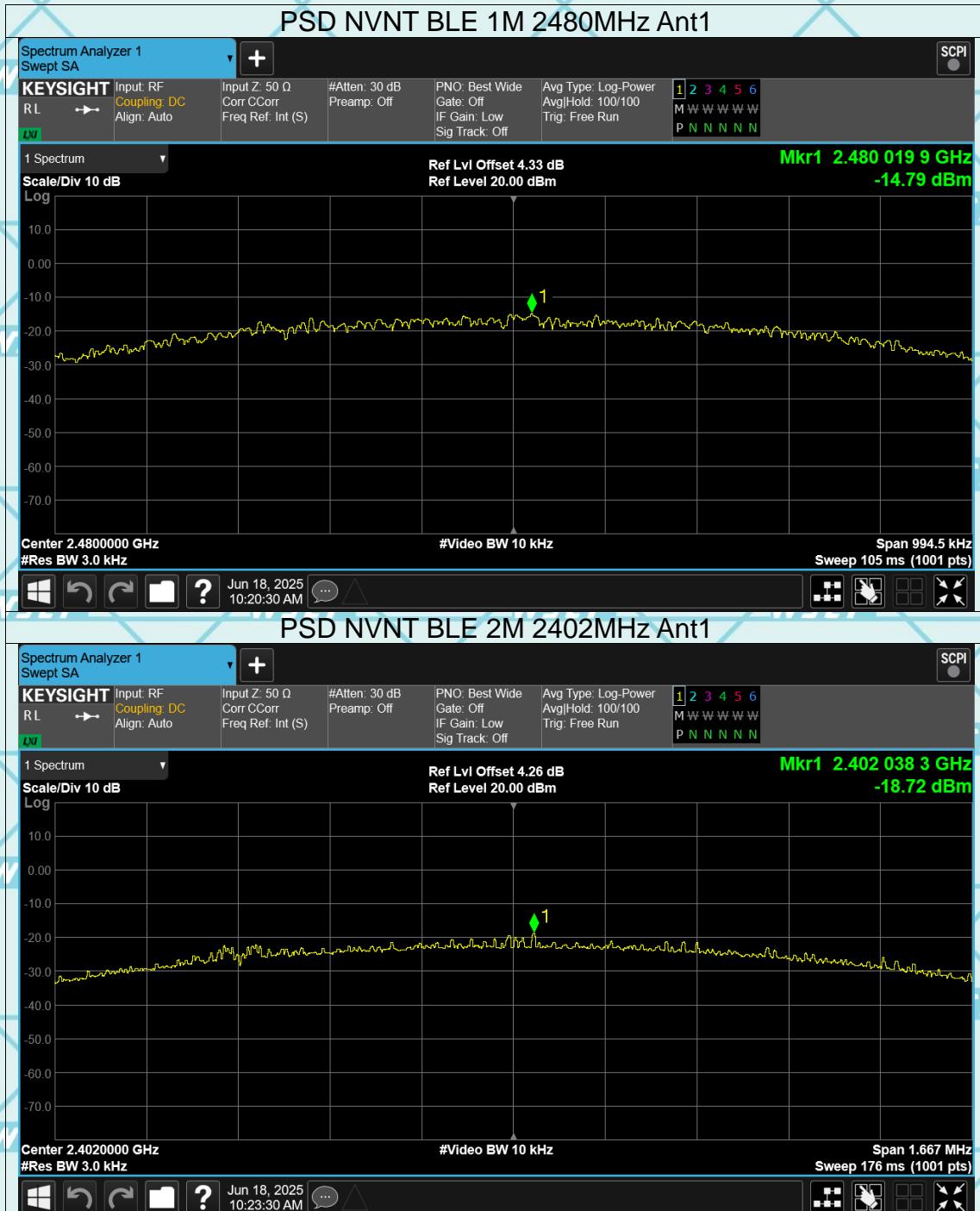
Test channel	Power Spectral Density (dBm/3kHz)		
	BLE 1M	Limit	Result
Lowest	-16.09	8 dBm/3kHz	PASS
Middle	-15.14	8 dBm/3kHz	
Highest	-14.79	8 dBm/3kHz	

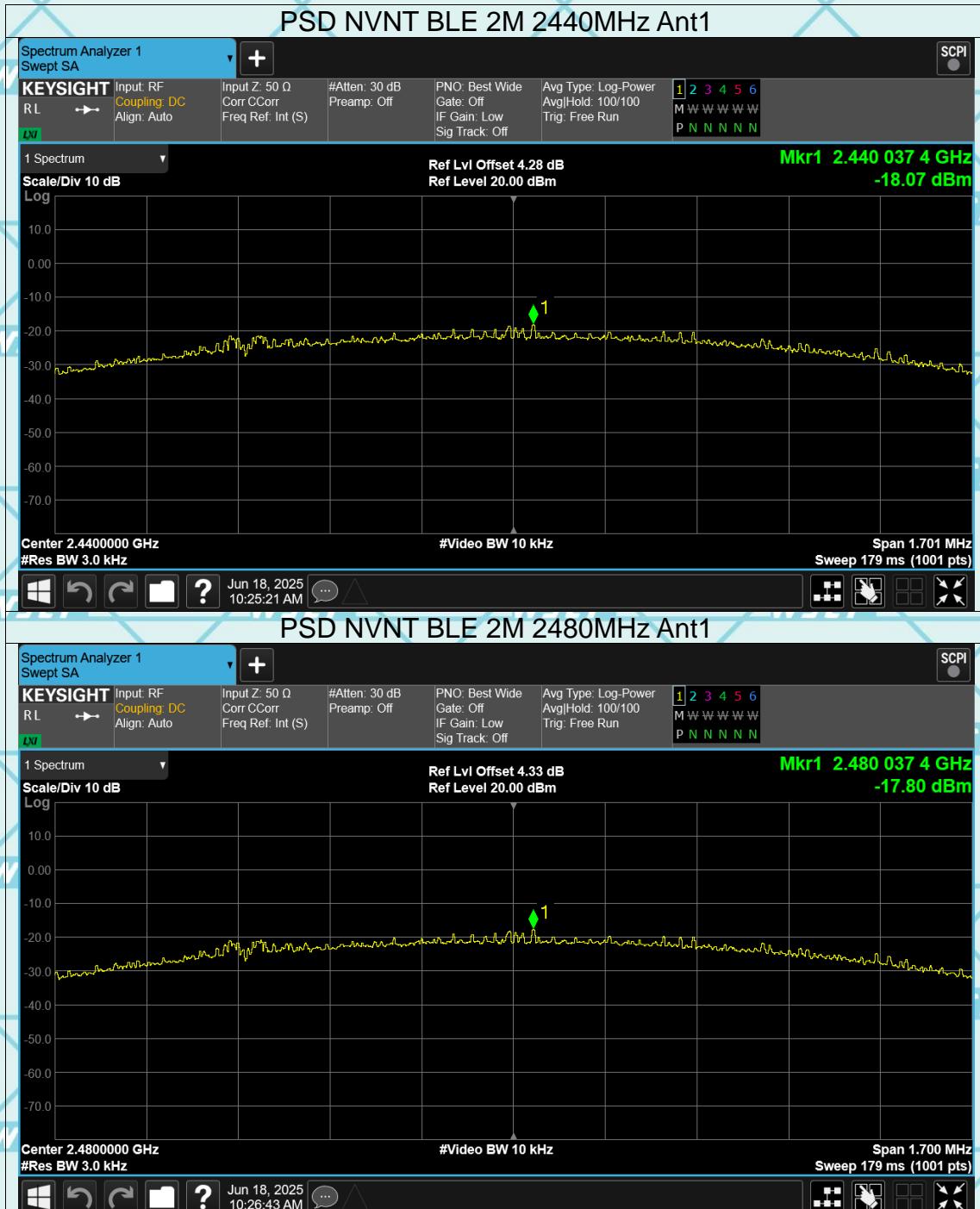
Test channel	Power Spectral Density (dBm/3kHz)		
	BLE 2M	Limit	Result
Lowest	-18.72	8 dBm/3kHz	PASS
Middle	-18.07	8 dBm/3kHz	
Highest	-17.8	8 dBm/3kHz	

Test plots as follows:









6.6. Conducted Band Edge and Spurious Emission Measurement

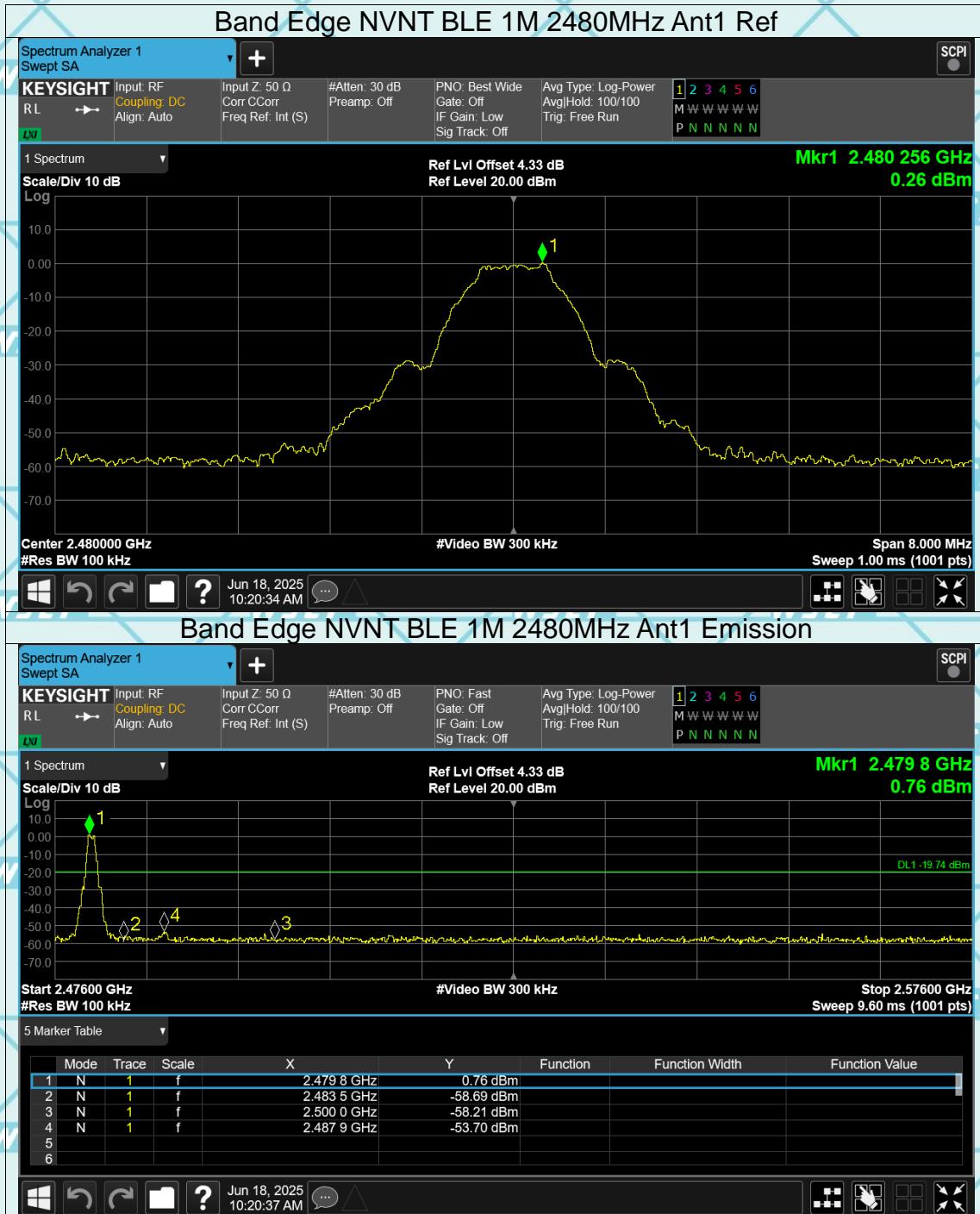
6.6.1. Test Specification

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Test Data

Band Edge



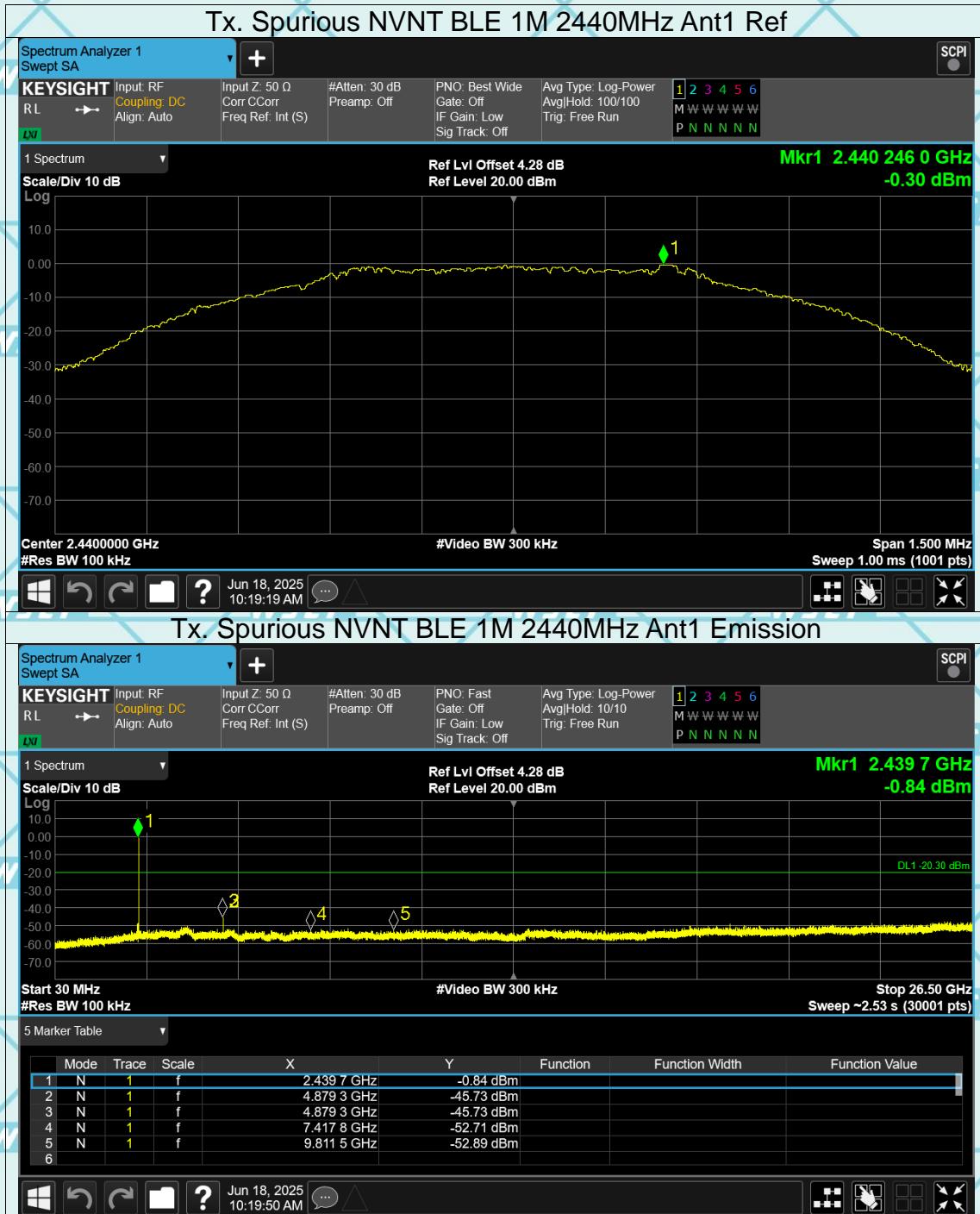






Report No.: WSCT-ANAB-R&E250600039A-LE
Conducted RF Spurious Emission







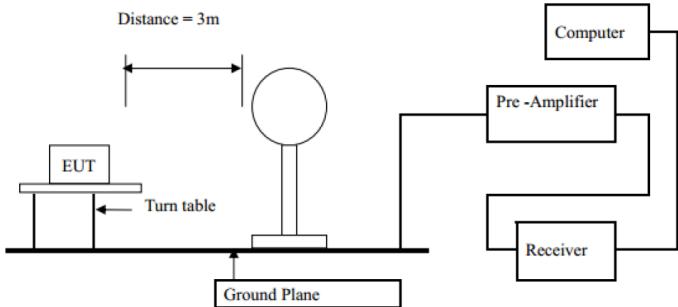


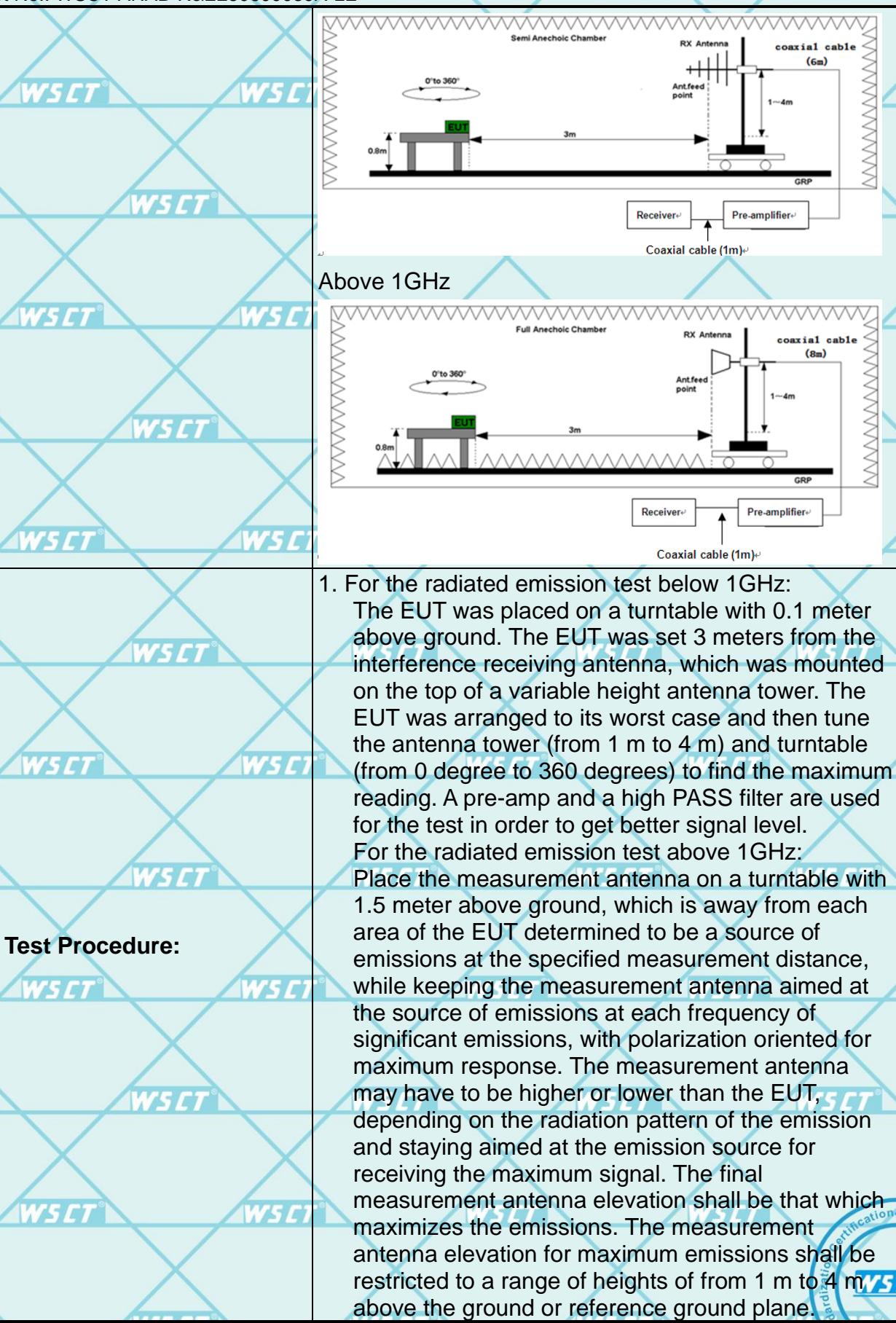




6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209						
Test Method:	ANSI C63.10:2014						
Frequency Range:	9 kHz to 25 GHz						
Measurement Distance:	3 m						
Antenna Polarization:	Horizontal & Vertical						
Operation mode:	Refer to item 4.1						
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark		
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value		
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value		
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
		Peak	1MHz	10Hz	Average Value		
Limit:	Frequency	Field Strength (microvolts/meter)		Measurement Distance (meters)			
	0.009-0.490	2400/F(KHz)		300			
	0.490-1.705	24000/F(KHz)		30			
	1.705-30	30		30			
	30-88	100		3			
	88-216	150		3			
	216-960	200		3			
	Above 960	500		3			
Test setup:	Frequency	Field Strength (microvolts/meter)		Measurement Distance (meters)	Detector		
	Above 1GHz	500		3	Average		
		5000		3	Peak		
For radiated emissions below 30MHz							
							
30MHz to 1GHz							



Test Procedure:

	<p>2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</p> <p>4. Use the following spectrum analyzer settings:</p> <ol style="list-style-type: none"> (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
Test mode:	Refer to section 4.1 for details
Test results:	PASS

Note: Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dB μ V) = Limit stated in standard

Margin (dB) = Level (dB μ V) - Limits (dB μ V)



6.7.2. Test Data(Worst case)

Please refer to following diagram for individual

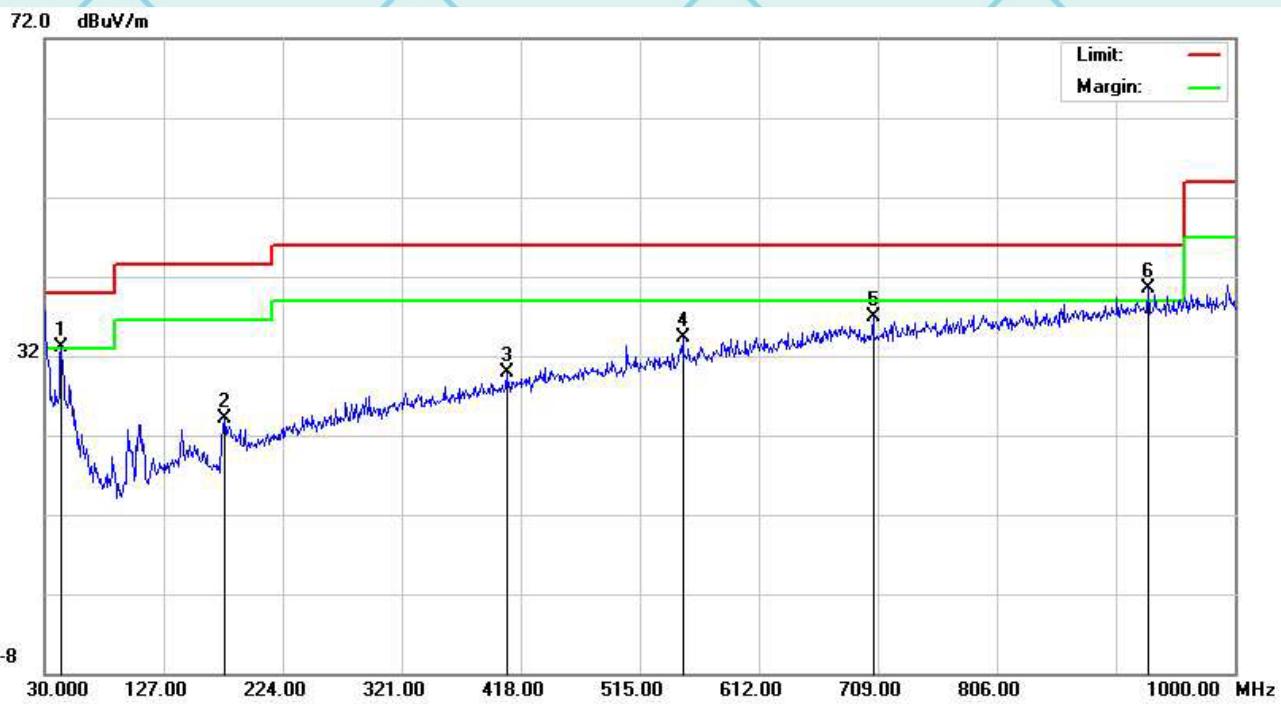
Below 1GHz

The worst mode is BLE Low Channel
Horizontal:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	43.5800	41.23	-6.88	34.35	40.00	-5.65	QP
2		306.4500	30.72	0.22	30.94	46.00	-15.06	QP
3		457.7700	28.12	4.39	32.51	46.00	-13.49	QP
4		646.9200	26.86	8.86	35.72	46.00	-10.28	QP
5	!	868.0800	27.02	12.37	39.39	46.00	-6.61	QP
6		963.1400	26.41	13.98	40.39	54.00	-13.61	QP



Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dB μ V	dB	dBuV/m	dBuV/m	dB	Detector
1	!	43.5800	53.62	-20.52	33.10	40.00	-6.90	QP
2		176.4700	43.98	-19.80	24.18	43.50	-19.32	QP
3		406.3599	48.69	-18.73	29.96	46.00	-16.04	QP
4		549.9200	52.29	-17.99	34.30	46.00	-11.70	QP
5		705.1200	54.08	-17.17	36.91	46.00	-9.09	QP
6	*	929.1900	56.30	-15.76	40.54	46.00	-5.46	QP

Note1:

Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)Limit (dB μ V) = Limit stated in standardMargin (dB) = Measurement (dB μ V) – Limits (dB μ V)

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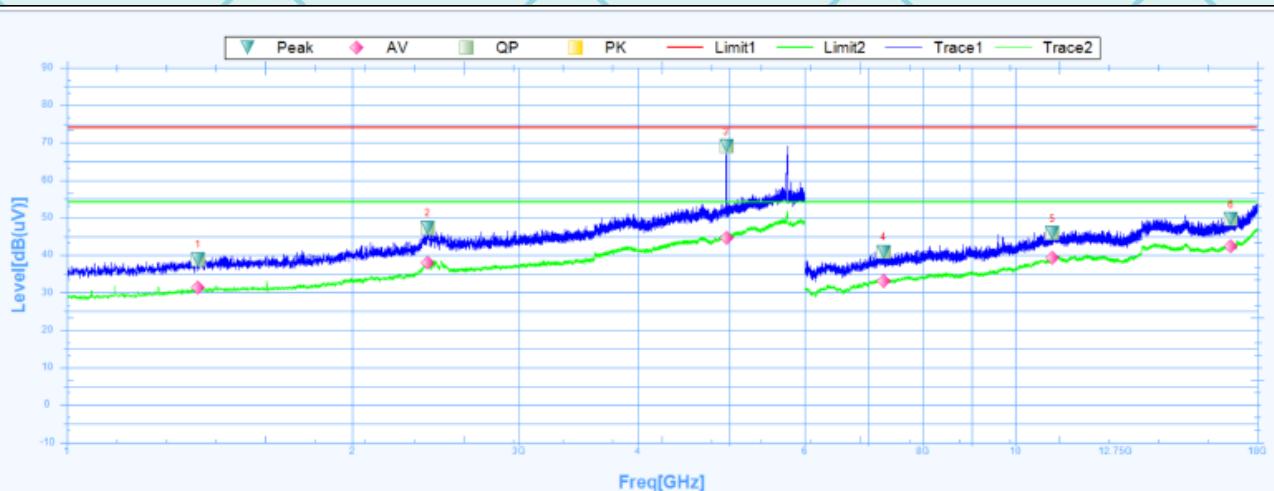
Above 1GHz

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

Low channel: 2402MHz

Horizontal:



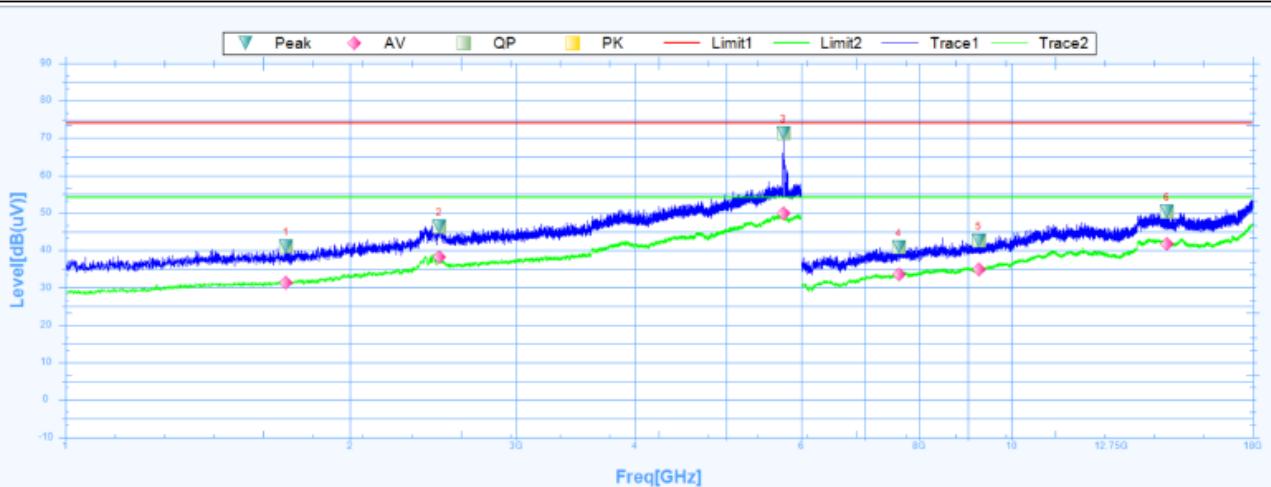
Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1375.0000	38.93	-0.64	39.57	74	-35.07	347.9	Horizontal	PK	Pass
1	1375.0000	31.35	-0.64	31.99	54	-22.65	347.9	Horizontal	AV	Pass
2	2402.5000	47.32	7.58	39.74	74	-26.68	177.8	Horizontal	PK	Pass
2	2402.5000	37.91	7.58	30.33	54	-16.09	177.8	Horizontal	AV	Pass
3	4959.3750	69.14	16.43	52.71	74	-4.86	323.6	Horizontal	PK	Pass
3	4959.3750	44.64	16.43	28.21	54	-9.36	323.6	Horizontal	AV	Pass
4	7260.0000	40.92	35.89	5.03	74	-33.08	7.1	Horizontal	PK	Pass
4	7260.0000	33.12	35.89	-2.77	54	-20.88	7.1	Horizontal	AV	Pass
5	10948.5000	45.96	39.43	6.53	74	-28.04	39.2	Horizontal	PK	Pass
5	10948.5000	39.18	39.43	-0.25	54	-14.82	39.2	Horizontal	AV	Pass
6	16885.5000	49.62	39.49	10.13	74	-24.38	49.9	Horizontal	PK	Pass
6	16885.5000	42.36	39.49	2.87	54	-11.64	49.9	Horizontal	AV	Pass



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Vertical :



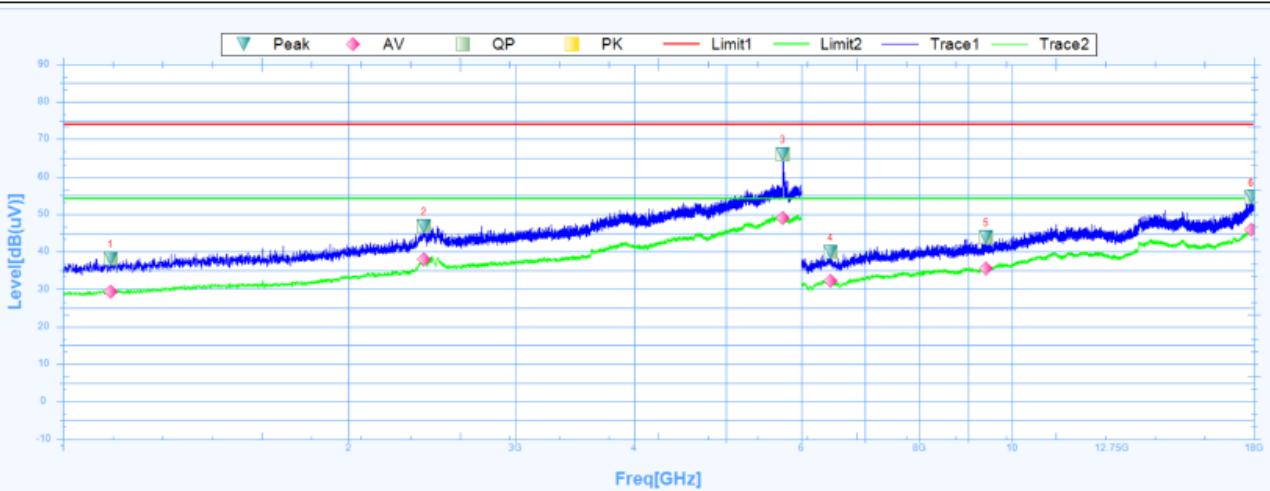
Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1711.2500	40.99	0.48	40.51	74	-33.01	115.6	Vertical	PK	Pass
1	1711.2500	31.39	0.48	30.91	54	-22.61	115.6	Vertical	AV	Pass
2	2485.0000	46.35	7.86	38.49	74	-27.65	355.1	Vertical	PK	Pass
2	2485.0000	38.17	7.86	30.31	54	-15.83	355.1	Vertical	AV	Pass
3	5743.7500	71.29	21.16	50.13	74	-2.71	177.8	Vertical	PK	Pass
3	5743.7500	49.96	21.16	28.8	54	-4.04	177.8	Vertical	AV	Pass
4	7602.0000	40.83	36.4	4.43	74	-33.17	108.1	Vertical	PK	Pass
4	7602.0000	33.43	36.4	-2.97	54	-20.57	108.1	Vertical	AV	Pass
5	9235.5000	42.65	37.56	5.09	74	-31.35	360.1	Vertical	PK	Pass
5	9235.5000	34.84	37.56	-2.72	54	-19.16	360.1	Vertical	AV	Pass
6	14596.5000	50.21	40.72	9.49	74	-23.79	96.2	Vertical	PK	Pass
6	14596.5000	41.71	40.72	0.99	54	-12.29	96.2	Vertical	AV	Pass

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Middle channel: 2440MHz

Horizontal:



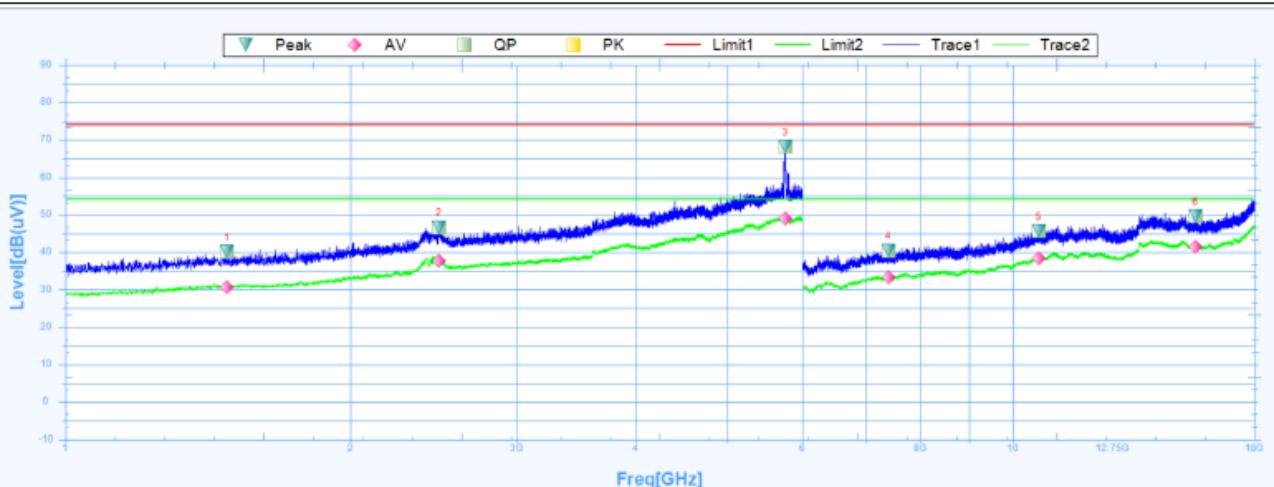
Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1121.8750	38.13	24.36	13.77	74	-35.87	310.6	Horizontal	PK	Pass
1	1121.8750	29.39	24.36	5.03	54	-24.61	310.6	Horizontal	AV	Pass
2	2402.5000	46.85	27.27	19.58	74	-27.15	0	Horizontal	PK	Pass
2	2402.5000	38.02	27.27	10.75	54	-15.98	0	Horizontal	AV	Pass
3	5738.1250	65.99	32.38	33.61	74	-8.01	0	Horizontal	PK	Pass
3	5738.1250	48.99	32.38	16.61	54	-5.01	0	Horizontal	AV	Pass
4	6442.5000	39.92	4.62	35.3	74	-34.08	44.7	Horizontal	PK	Pass
4	6442.5000	32.3	4.62	27.68	54	-21.7	44.7	Horizontal	AV	Pass
5	9399.0000	43.98	10.8	33.18	74	-30.02	54.2	Horizontal	PK	Pass
5	9399.0000	35.53	10.8	24.73	54	-18.47	54.2	Horizontal	AV	Pass
6	17889.0000	54.58	23.19	31.39	74	-19.42	324.4	Horizontal	PK	Pass
6	17889.0000	45.92	23.19	22.73	54	-8.08	324.4	Horizontal	AV	Pass



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Vertical:



Suspected Data List

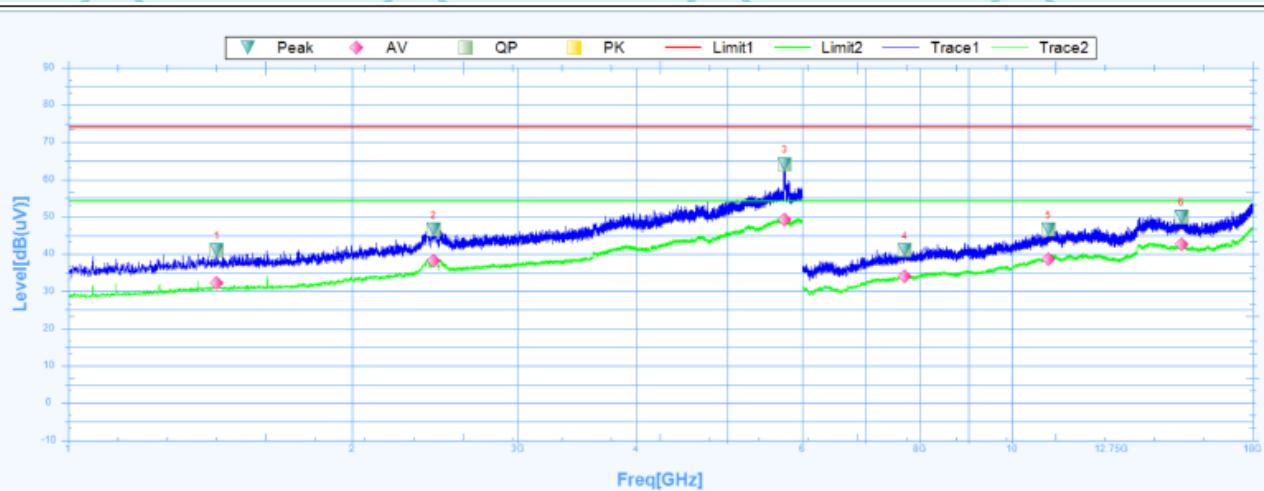
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1481.8750	40.21	-0.24	40.45	74	-33.79	0.4	Vertical	PK	Pass
1	1481.8750	30.76	-0.24	31	54	-23.24	0.4	Vertical	AV	Pass
2	2481.8750	46.66	7.85	38.81	74	-27.34	293.4	Vertical	PK	Pass
2	2481.8750	37.7	7.85	29.85	54	-16.3	293.4	Vertical	AV	Pass
3	5760.6250	68.14	21.06	47.08	74	-5.86	188.2	Vertical	PK	Pass
3	5760.6250	48.96	21.06	27.9	54	-5.04	188.2	Vertical	AV	Pass
4	7393.5000	40.48	36.09	4.39	74	-33.52	358.9	Vertical	PK	Pass
4	7393.5000	33.33	36.09	-2.76	54	-20.67	358.9	Vertical	AV	Pass
5	10654.5000	45.65	39.02	6.63	74	-28.35	180.2	Vertical	PK	Pass
5	10654.5000	38.37	39.02	-0.65	54	-15.63	180.2	Vertical	AV	Pass
6	15598.5000	49.63	38.34	11.29	74	-24.37	352.4	Vertical	PK	Pass
6	15598.5000	41.55	38.34	3.21	54	-12.45	352.4	Vertical	AV	Pass



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High channel: 2480MHz

Horizontal:



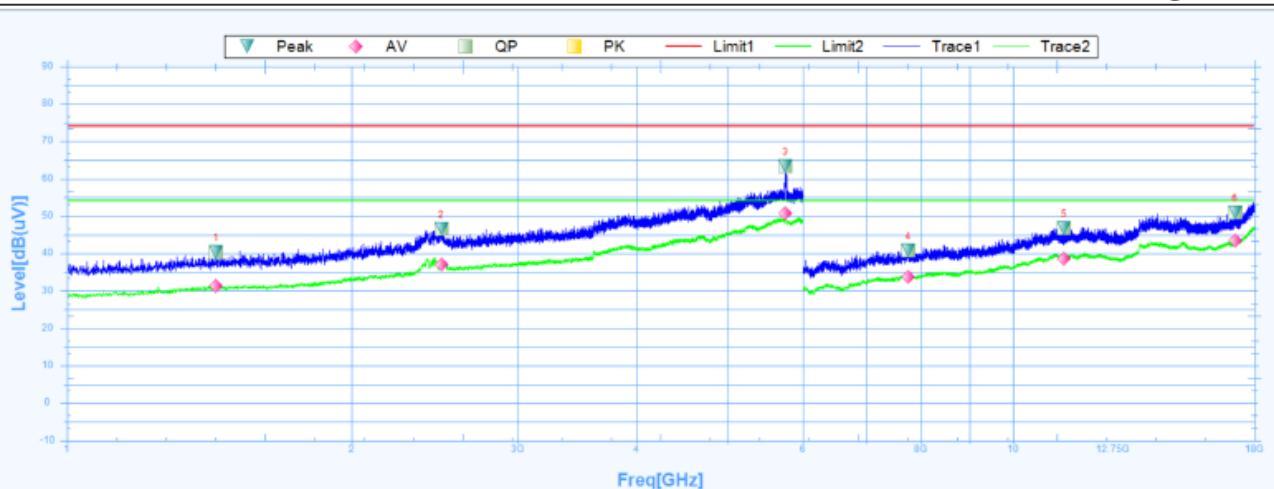
Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1438.1250	41.1	-0.41	41.51	74	-32.9	36.4	Horizontal	PK	Pass
1	1438.1250	32.19	-0.41	32.6	54	-21.81	36.4	Horizontal	AV	Pass
2	2440.6250	46.55	7.71	38.84	74	-27.45	181	Horizontal	PK	Pass
2	2440.6250	38.11	7.71	30.4	54	-15.89	181	Horizontal	AV	Pass
3	5751.2500	64.11	21.11	43	74	-9.89	190.6	Horizontal	PK	Pass
3	5751.2500	49.11	21.11	28	54	-4.89	190.6	Horizontal	AV	Pass
4	7705.5000	41.13	36.56	4.57	74	-32.87	327.3	Horizontal	PK	Pass
4	7705.5000	33.99	36.56	-2.57	54	-20.01	327.3	Horizontal	AV	Pass
5	10936.5000	46.48	39.41	7.07	74	-27.52	275.8	Horizontal	PK	Pass
5	10936.5000	38.65	39.41	-0.76	54	-15.35	275.8	Horizontal	AV	Pass
6	15126.0000	49.97	39.81	10.16	74	-24.03	0	Horizontal	PK	Pass
6	15126.0000	42.59	39.81	2.78	54	-11.41	0	Horizontal	AV	Pass



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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1437.5000	40.35	-0.42	40.77	74	-33.65	338.8	Vertical	PK	Pass
1	1437.5000	31.27	-0.42	31.69	54	-22.73	338.8	Vertical	AV	Pass
2	2488.1250	46.55	7.81	38.74	74	-27.45	242	Vertical	PK	Pass
2	2488.1250	37.04	7.81	29.23	54	-16.96	242	Vertical	AV	Pass
3	5751.8750	63.26	21.11	42.15	74	-10.74	151.1	Vertical	PK	Pass
3	5751.8750	50.79	21.11	29.68	54	-3.21	151.1	Vertical	AV	Pass
4	7753.5000	40.87	36.63	4.24	74	-33.13	203	Vertical	PK	Pass
4	7753.5000	33.75	36.63	-2.88	54	-20.25	203	Vertical	AV	Pass
5	11329.5000	46.7	39.2	7.5	74	-27.3	296.2	Vertical	PK	Pass
5	11329.5000	38.6	39.2	-0.6	54	-15.4	296.2	Vertical	AV	Pass
6	17170.5000	51.06	40.94	10.12	74	-22.94	14.1	Vertical	PK	Pass
6	17170.5000	43.43	40.94	2.49	54	-10.57	14.1	Vertical	AV	Pass

Note:

1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
2. Emission Level= Reading Level+Probe Factor +Cable Loss.
3. Data of measurement within this frequency range shown “--” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

6.7.3. Restricted Bands Requirements

Test result for GFSK Mode (the worst case)

Frequency (MHz)	Reading (dB μ V/m)	Correct Factor dB/m	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Polar H/V	Detector
Low Channel							
2390	64.03	-8.76	55.27	74	18.73	H	PK
2390	53.50	-8.76	44.74	54	9.26	H	AV
2390	63.84	-8.73	55.11	74	18.89	V	PK
2390	56.80	-8.73	48.07	54	5.93	V	AV
High Channel							
2483.5	63.61	-8.17	55.44	74	18.56	H	PK
2483.5	54.53	-8.17	46.36	54	7.64	H	AV
2483.5	62.14	-8.17	53.97	74	20.03	V	PK
2483.5	54.28	-8.17	46.11	54	7.89	V	AV

Note: Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dB μ V) = Limit stated in standard

Margin (dB) = Level (dB μ V) – Limits (dB μ V)

*****END OF REPORT*****

