Radio Test Report

Report No.:STS2606087W08

Issued for

THINKCAR TECH CO., LTD.

2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, China

Product Name:	Automotive Diagnostic Device
Brand Name:	THINKCAR, MUCAR
Model Name:	GVCI
Series Model(s):	N/A
FCC ID:	2AUARTKGVCI
Test Standards:	FCC Part15.247

TEST REPORT

Applicant's Name..... :	THINKCAR TECH CO., LTD.
Address ..... :	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, China
Manufacturer's Name ..... :	THINKCAR TECH CO., LTD.
Address ..... :	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, China

Product Description

Product Name ..... :	Automotive Diagnostic Device
Brand Name ..... :	THINKCAR, MUCAR
Model Name ..... :.	GVCI
Series Model(s) ..... :	N/A
Test Standards..... :	FCC Part15.247
Test Procedure ..... :	ANSI C63.10-2020+Cor 1-2023

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test

Date of receipt of test item ..... :	12 June 2026
Date (s) of performance of tests..... :	12 June 2026 ~ 16 July 2026
Date of Issue..... :	16 July 2026
Test Result..... :	**Pass**

Testing Engineer : Aaron Bu

(Aaron Bu)

Technical Manager : Skylar Li

(Skylar Li)

Authorized Signatory : Bovey Yang

(Bovey Yang)

SHENZHEN STS TEST SERVICES CO., LTD. TESTING APPROVAL

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	16 July 2026	STS2606087W08	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247,Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.247 (a)(2)	6dB Bandwidth	PASS	--
15.247 (b)(3)	Output Power	PASS	--
15.209	Radiated Spurious Emission	PASS	--
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	--
15.247 (e)	Power Spectral Density	PASS	--
15.205	Restricted bands of operation	PASS	--
Part 15.247(d)/ Part 15.209(a)	Band Edge Emission	PASS	--
15.203	Antenna Requirement	PASS	--

Note:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2020+Cor 1-2023.

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **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	Uncertainty
1	RF output power, conducted	±0.751dB
2	Unwanted Emissions, conducted	±2.888dB
3	All emissions, radiated 9K-30MHz	±2.48dB
4	All emissions, radiated 30M-1GHz	±2.52dB
5	All emissions, radiated 1G-18GHz	±3.48dB
6	All emissions, radiated>18GHz	±4.18dB
7	Conducted Emission (9KHz-150KHz)	±2.48dB
8	Conducted Emission (150KHz-30MHz)	±2.52dB
9	Occupied Channel Bandwidth	±3.6%
10	Power Spectral Density, conducted	±1.214dB
11	Duty Cycle	±3.2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

<table>
<tr><td>Product Name</td><td>Automotive Diagnostic Device</td></tr>
<tr><td>Brand Name</td><td>THINKCAR, MUCAR</td></tr>
<tr><td>Model Name</td><td>GVCI</td></tr>
<tr><td>Series Model(s)</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>N/A</td></tr>
<tr><td>Product Description</td><td>The EUT is a Automotive Diagnostic Device
<table>
<tr><td>Operation Frequency:</td><td>2402~2480 MHz</td></tr>
<tr><td>Modulation Type:</td><td>GFSK</td></tr>
<tr><td>Radio Technology:</td><td>BLE</td></tr>
<tr><td>Bluetooth Configuration:</td><td>LE(Support 1M PHY, 2M PHY)</td></tr>
<tr><td>Number Of Channel:</td><td>40</td></tr>
<tr><td>Antenna Type:</td><td>PCB</td></tr>
<tr><td>Antenna Gain (dBi)</td><td>-1.88</td></tr>
</table></td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 3.</td></tr>
<tr><td>Power Rating</td><td>Input: 9-18V 130mA</td></tr>
<tr><td>Adapter</td><td>N/A</td></tr>
<tr><td>Battery</td><td>N/A</td></tr>
<tr><td>Hardware version number</td><td>V1.0</td></tr>
<tr><td>Software version number</td><td>V1.0</td></tr>
<tr><td>Sample Number</td><td>260612003-2</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the Note 1.</td></tr>
</table>

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

3.

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480

2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions
Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1M PHY /GFSK
Mode 2	TX CH19(2440MHz)	1M PHY /GFSK
Mode 3	TX CH39(2480MHz)	1M PHY /GFSK

Worst Mode	Description	Data/Modulation
Mode 4	TX CH00(2402MHz)	2M PHY /GFSK
Mode 5	TX CH19(2440MHz)	2M PHY /GFSK
Mode 6	TX CH39(2480MHz)	2M PHY /GFSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

(2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.

For AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 7 : Keeping BT TX

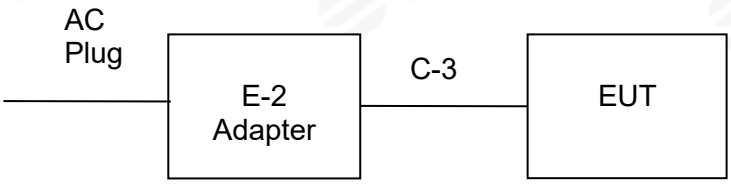
2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

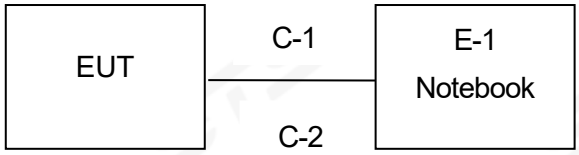
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
BLE(With 2M PHY)	BLE_1M PHY	GFSK	-1.88	6	SecureCRT
	BLE_2M PHY	GFSK	-1.88	6	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

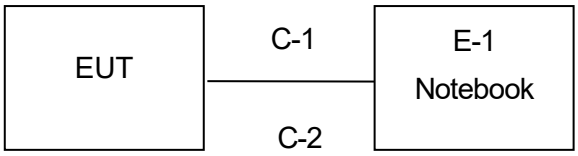
Conducted Emission Test



Radiated Spurious Emission Test



RF Conducted Test



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Notebook	DELL	Inspiron 3501	N/A
E-2	Adapter	ZTC	NB-A515A	N/A
C-1	Serial port board	XES	WTYZK	N/A
C-2	USB Cable	MI	RYEW3A	N/A
C-3	USB Cable	ZTC	NB-A515A	N/A

Item	Equipment	Mfr/Brand	Length	Note
C-2	Shielded	NO	150cm	N/A
C-3	Shielded	NO	100cm	N/A

Note:

(1) For detachable type I/O cable should be specified the length in cm in『Length』column.
(2) “YES” is means “with core”; “NO” is means “without core”.

2.6 EQUIPMENTS LIST

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
966 chamber	CHENYU	966 Room	966	2025.08.13	2028.08.12
Temperature & Humidity	TORIE	TP502V4-P	6700000124280	2025.10.13	2026.10.12
Pre-Amplifier(0.1M -3GHz)	EM	EM330	060665	2026.02.05	2027.02.04
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2026.03.04	2027.03.03
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Positioning Controller	MF	MF-7802	MF-780208587	2025.09.25	2026.09.24
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Switch Control Box	SKET	SU319E	51409043	2025.09.26	2026.09.25
Band 2.4G-2.5G Filter	HX MICROWAVE	HXLBQ-DZA61	5410025	2025.09.23	2026.09.22
Antenna Mast	MF	MFA-440H	1308023	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC Power Supply	Zhaoxin	RXN 605D	20R605D11010081	2025.09.22	2026.09.21
RF Coaxial Cable	LEITAI M-WAVE	CA360	DC-18G	2025.09.26	2026.09.25
RF Coaxial Cable	LEITAI M-WAVE	CA360	DC-18G	2025.09.26	2026.09.25
RF Coaxial Cable	LEITAI M-WAVE	CA3507	DC-40G	2025.09.26	2026.09.25
RF Coaxial Cable	LEITAI M-WAVE	CA3507	DC-40G	2025.09.26	2026.09.25
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
AC Conduction Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Limiter	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24
CE Cable	EASTSHEEP	C01	10057	2025.09.25	2026.09.24
Temperature & Humidity	TORIE	TP502V4-P	6700000422137	2025.08.26	2026.08.25
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			
RF Conduction Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2026.02.04	2027.02.03
Switch control box	MW	MW100-RFCB	052206001	2025.09.23	2026.09.22
RF Coaxial Cable	XINQY	CT40PE	DC-40G	2026.02.04	2027.02.03
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2026.02.04	2027.02.03
Temperature & Humidity	TORIE	TP502V4-P	6700000124211	2025.10.09	2026.10.08
Test SW	MW	MTS 8310_2.0.0.0			

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

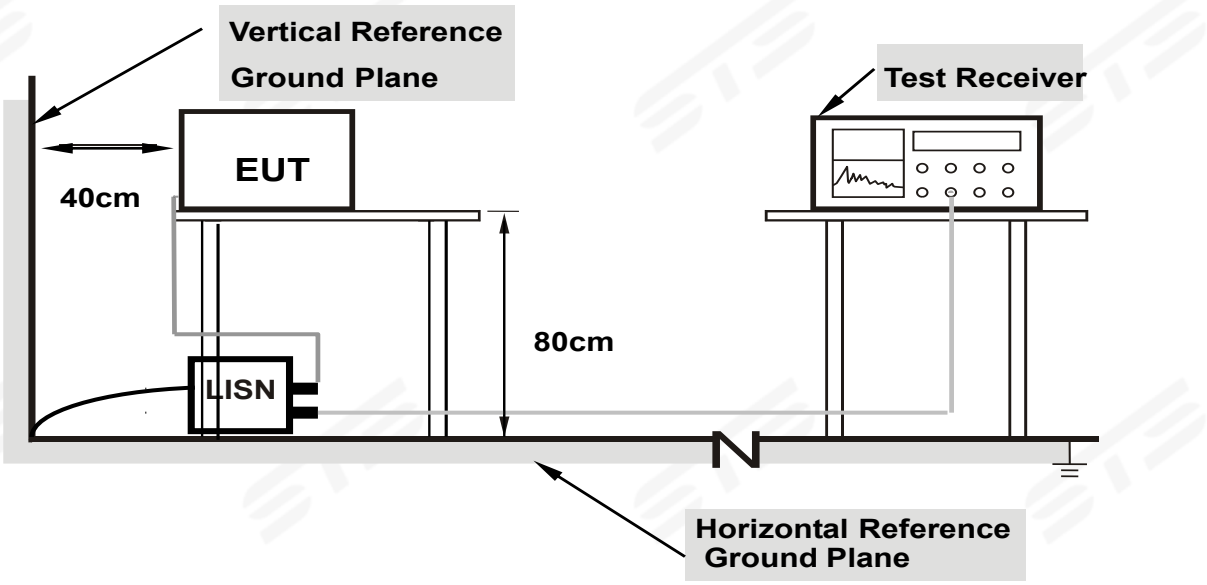
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.2 TEST PROCEDURE

a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN is at least 80 cm from the nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.4 EUT OPERATING CONDITIONS

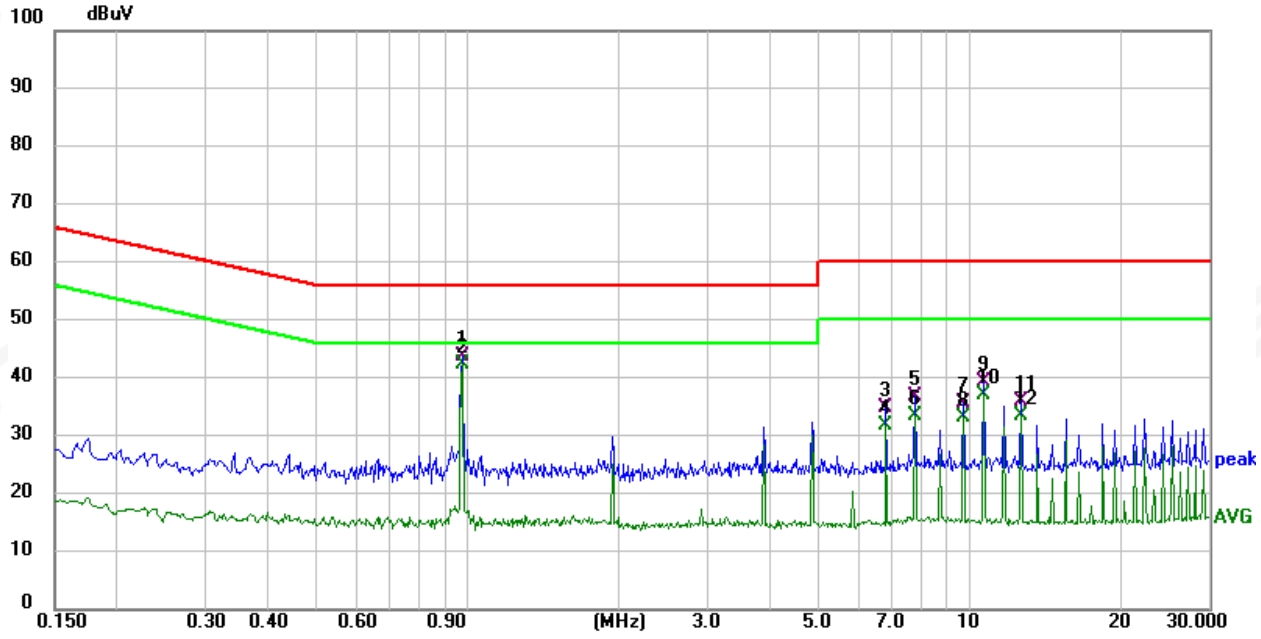
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.5 TEST RESULTS

Temperature:	26℃	Relative Humidity:	54%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 7		

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Over (dB)	Detector	Pass/Fail
1	0.9700	24.45	19.35	43.80	56.00	-12.20	QP	Pass
2 *	0.9700	23.04	19.35	42.39	46.00	-3.61	AVG	Pass
3	6.7820	15.31	19.45	34.76	60.00	-25.24	QP	Pass
4	6.7820	12.32	19.45	31.77	50.00	-18.23	AVG	Pass
5	7.7500	17.20	19.50	36.70	60.00	-23.30	QP	Pass
6	7.7500	14.06	19.50	33.56	50.00	-16.44	AVG	Pass
7	9.6940	16.09	19.62	35.71	60.00	-24.29	QP	Pass
8	9.6940	13.67	19.62	33.29	50.00	-16.71	AVG	Pass
9	10.6620	19.58	19.65	39.23	60.00	-20.77	QP	Pass
10	10.6620	17.30	19.65	36.95	50.00	-13.05	AVG	Pass
11	12.6020	16.38	19.69	36.07	60.00	-23.93	QP	Pass
12	12.6020	13.86	19.69	33.55	50.00	-16.45	AVG	Pass

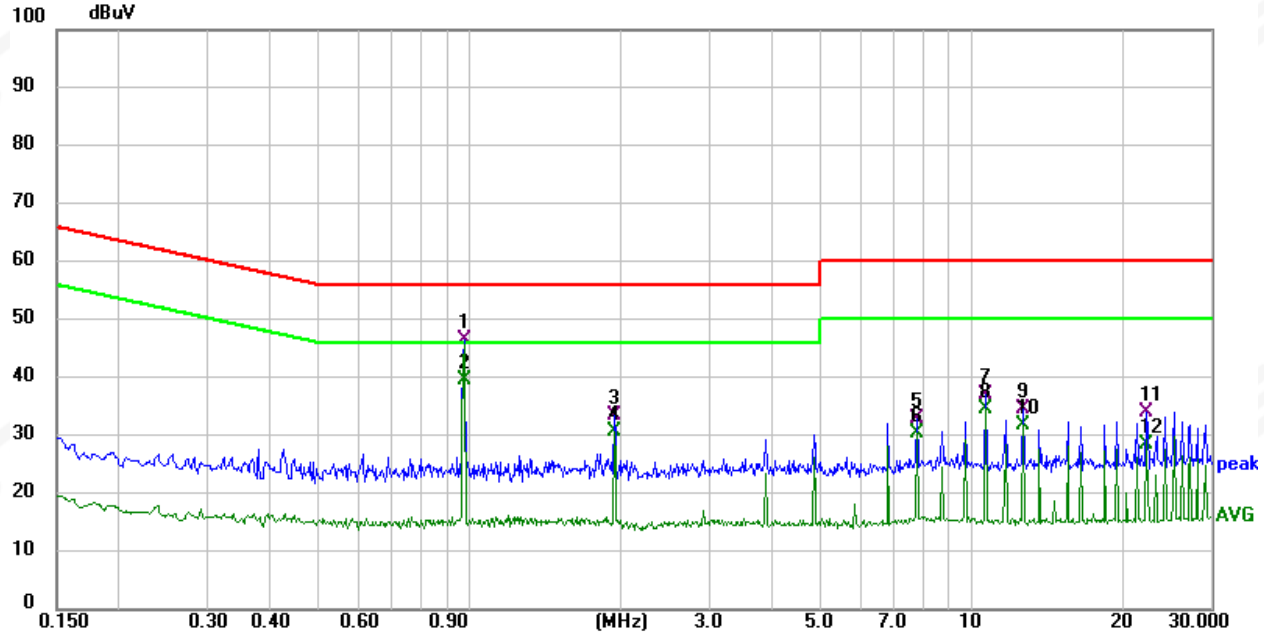
Remark:
1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)



Temperature:	26℃	Relative Humidity:	54%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 7		

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Over (dB)	Detector	Pass/Fail
1	0.9700	27.17	19.39	46.56	56.00	-9.44	QP	Pass
2 *	0.9740	20.16	19.39	39.55	46.00	-6.45	AVG	Pass
3	1.9380	14.07	19.38	33.45	56.00	-22.55	QP	Pass
4	1.9380	11.42	19.38	30.80	46.00	-15.20	AVG	Pass
5	7.7500	13.51	19.51	33.02	60.00	-26.98	QP	Pass
6	7.7500	10.82	19.51	30.33	50.00	-19.67	AVG	Pass
7	10.6540	17.32	19.70	37.02	60.00	-22.98	QP	Pass
8	10.6540	14.88	19.70	34.58	50.00	-15.42	AVG	Pass
9	12.5980	14.95	19.77	34.72	60.00	-25.28	QP	Pass
10	12.5980	11.91	19.77	31.68	50.00	-18.32	AVG	Pass
11	22.2860	14.30	19.83	34.13	60.00	-25.87	QP	Pass
12	22.2860	8.66	19.83	28.49	50.00	-21.51	AVG	Pass

Remark:
1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)



4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2020+Cor 1-2023 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2 TEST PROCEDURE

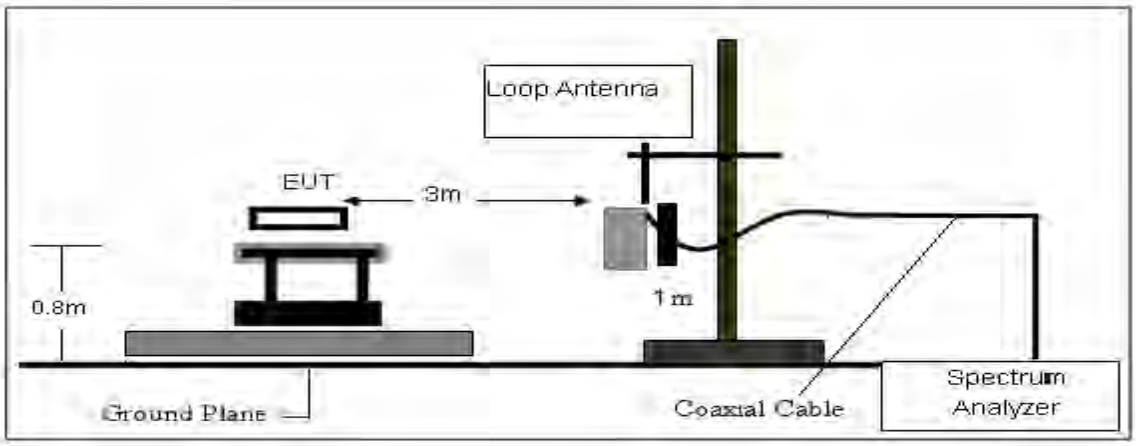
a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

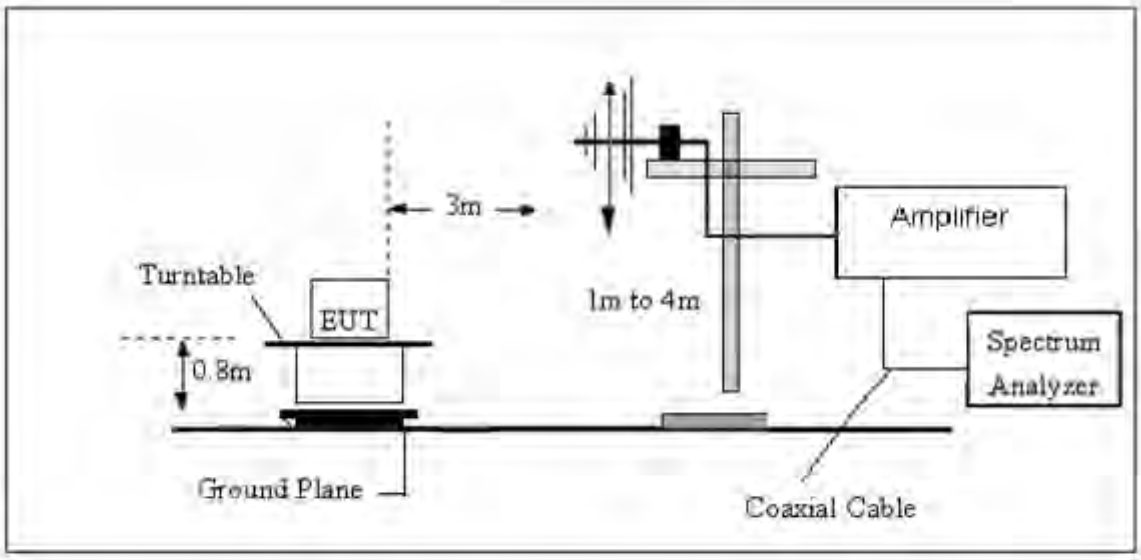
Both horizontal and vertical antenna polarities were tested with a band-stop filter and performed pretest to three orthogonal axis. The worst-case emissions were reported.

4.3 TEST SETUP

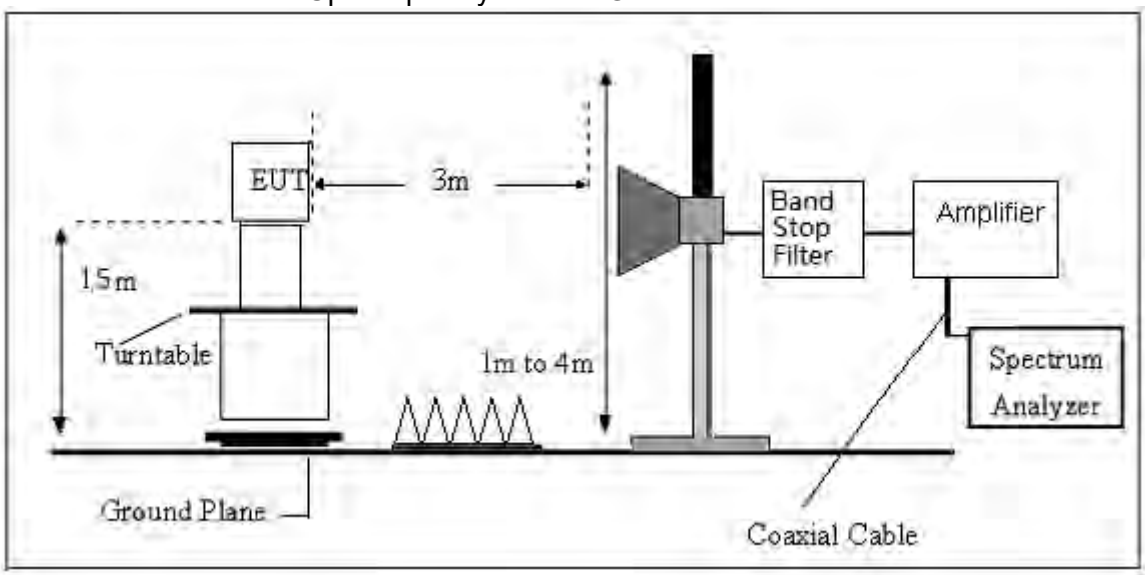
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.

4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG

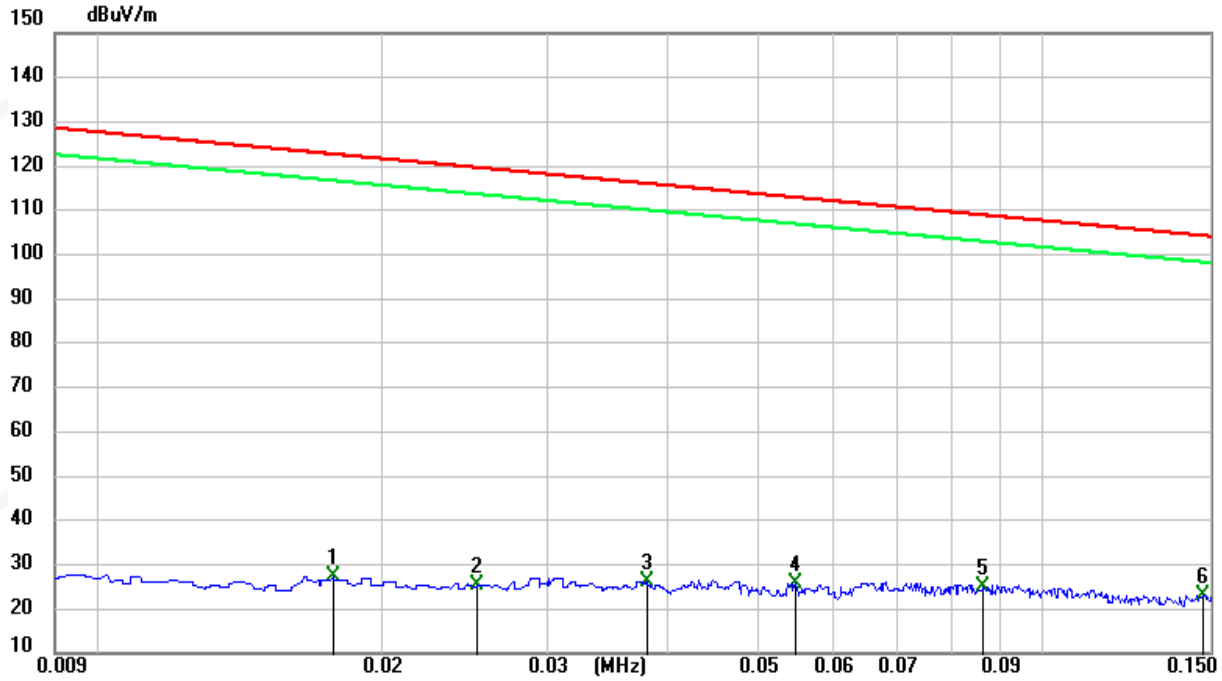
101, Building B, Zhuoke Science Park, No. 190 Chongqing Road, Zhancheng Shequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 3688 6288 Fax: +86-755 3688 6277 Http://www.stsapp.com E-mail:sts@stsapp.com

4.6 TEST RESULTS

(Between 9KHz – 30 MHz)

1M PHY
9KHz-150KHz

Temperature:	24.1°C	Relative Humidity:	64%
Test Voltage:	DC 12V	Polarization:	Coaxial
Test Mode:	Mode 1/2/3 (Mode 2 worst mode)		

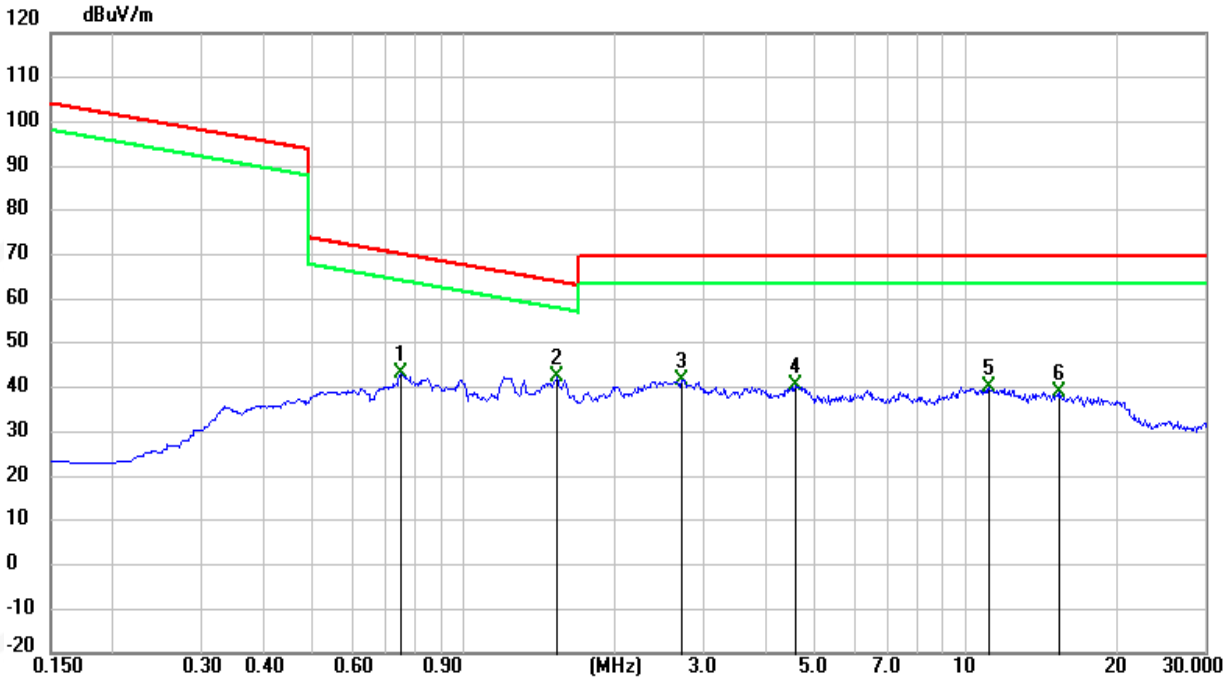


No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	0.0177	7.26	19.94	27.20	122.65	-95.45	AVG	Pass
2	0.0252	5.46	20.00	25.46	119.58	-94.12	AVG	Pass
3	0.0381	6.56	19.74	26.30	115.99	-89.69	AVG	Pass
4	0.0546	6.31	19.37	25.68	112.86	-87.18	AVG	Pass
5	0.0863	6.91	18.25	25.16	108.88	-83.72	AVG	Pass
6 *	0.1471	5.62	17.51	23.13	104.25	-81.12	AVG	Pass

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. The coaxial and coplanar directions of all modes have been tested, only show the worst data in this report.

150KHz-30MHz

Temperature:	24.1°C	Relative Humidity:	64%
Test Voltage:	DC 12V	Polarization:	Coaxial
Test Mode:	Mode 1/2/3 (Mode 2 worst mode)		



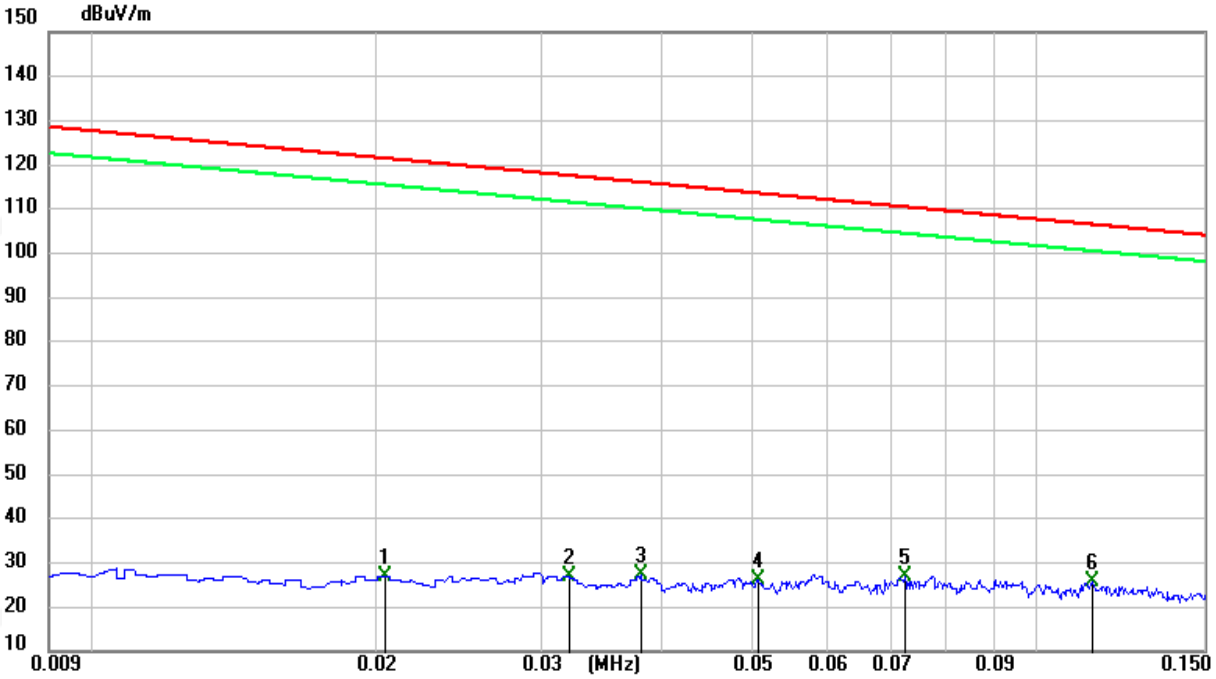
No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	0.7470	22.97	20.30	43.27	70.14	-26.87	QP	Pass
2	1.5274	22.01	20.30	42.31	63.93	-21.62	QP	Pass
3	2.7170	21.65	20.18	41.83	69.50	-27.67	QP	Pass
4	4.5678	20.00	20.46	40.46	69.50	-29.04	QP	Pass
5	11.1348	19.51	20.45	39.96	69.50	-29.54	QP	Pass
6 *	15.3138	17.50	21.38	38.88	69.50	-30.62	QP	Pass

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. The coaxial and coplanar directions of all modes have been tested, only show the worst data in this report.

2M PHY
9KHz-150KHz

Temperature:	24.1°C	Relative Humidity:	64%
Test Voltage:	DC 12V	Polarization:	Coaxial
Test Mode:	Mode 4/5/6 (Mode 5 worst mode)		

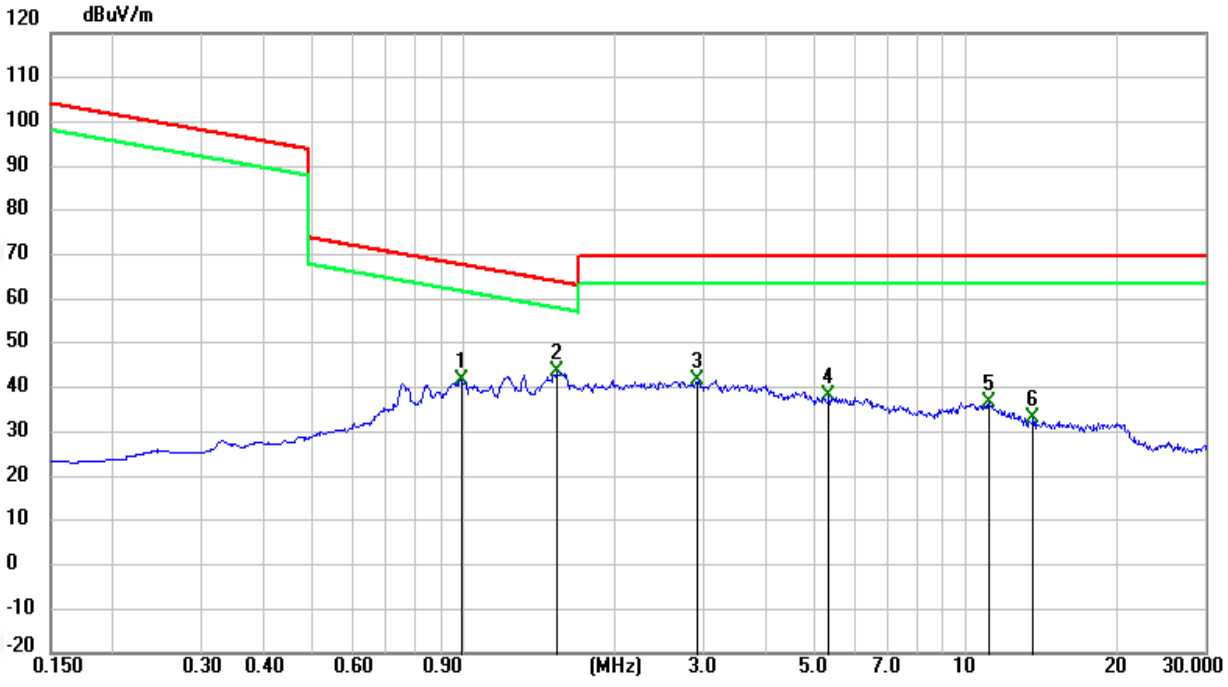


No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	0.0204	7.02	20.09	27.11	121.41	-94.30	AVG	Pass
2	0.0320	7.12	19.86	26.98	117.50	-90.52	AVG	Pass
3	0.0381	7.56	19.74	27.30	115.99	-88.69	AVG	Pass
4	0.0505	6.57	19.49	26.06	113.54	-87.48	AVG	Pass
5	0.0723	7.97	18.87	26.84	110.42	-83.58	AVG	Pass
6 *	0.1140	8.03	17.57	25.60	106.47	-80.87	AVG	Pass

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. The coaxial and coplanar directions of all modes have been tested, only show the worst data in this report.

150KHz-30MHz

Temperature:	24.1°C	Relative Humidity:	64%
Test Voltage:	DC 12V	Polarization:	Coaxial
Test Mode:	Mode 4/5/6 (Mode 5 worst mode)		



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	0.9858	21.38	20.21	41.59	67.73	-26.14	QP	Pass
2	1.5230	23.37	20.30	43.67	63.95	-20.28	QP	Pass
3	2.9305	21.53	20.12	41.65	69.50	-27.85	QP	Pass
4	5.3140	17.66	20.48	38.14	69.50	-31.36	QP	Pass
5	11.1348	16.01	20.45	36.46	69.50	-33.04	QP	Pass
6 *	13.5823	12.21	20.99	33.20	69.50	-36.30	QP	Pass

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. The coaxial and coplanar directions of all modes have been tested, only show the worst data in this report.

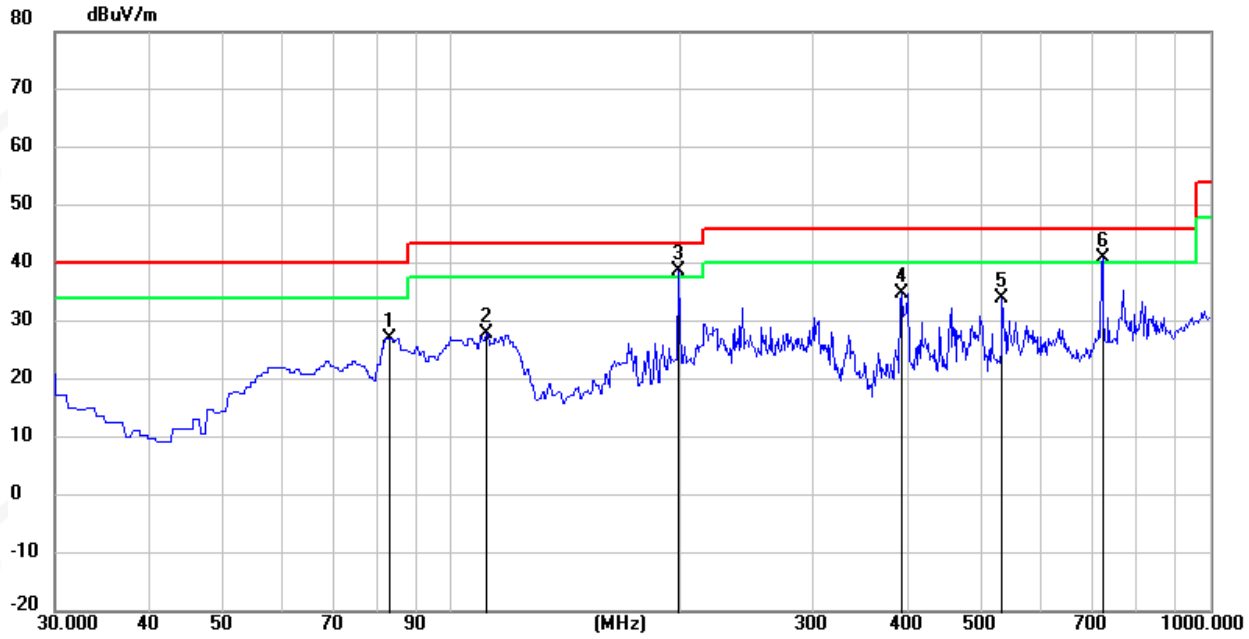
(30MHz -1000MHz)

1M PHY

Temperature:	23.4°C	Relative Humidity:	56%
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	Mode 1/2/3 (Mode 2 worst mode)		

No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	82.9385	49.80	-22.59	27.21	40.00	-12.79	QP	Pass
2	110.9571	46.91	-18.97	27.94	43.50	-15.56	QP	Pass
3 *	198.5880	59.83	-21.12	38.71	43.50	-4.79	QP	Pass
4	390.8400	46.45	-11.54	34.91	46.00	-11.09	QP	Pass
5	531.4900	41.47	-7.37	34.10	46.00	-11.90	QP	Pass
6 !	719.6700	44.21	-3.27	40.94	46.00	-5.06	QP	Pass

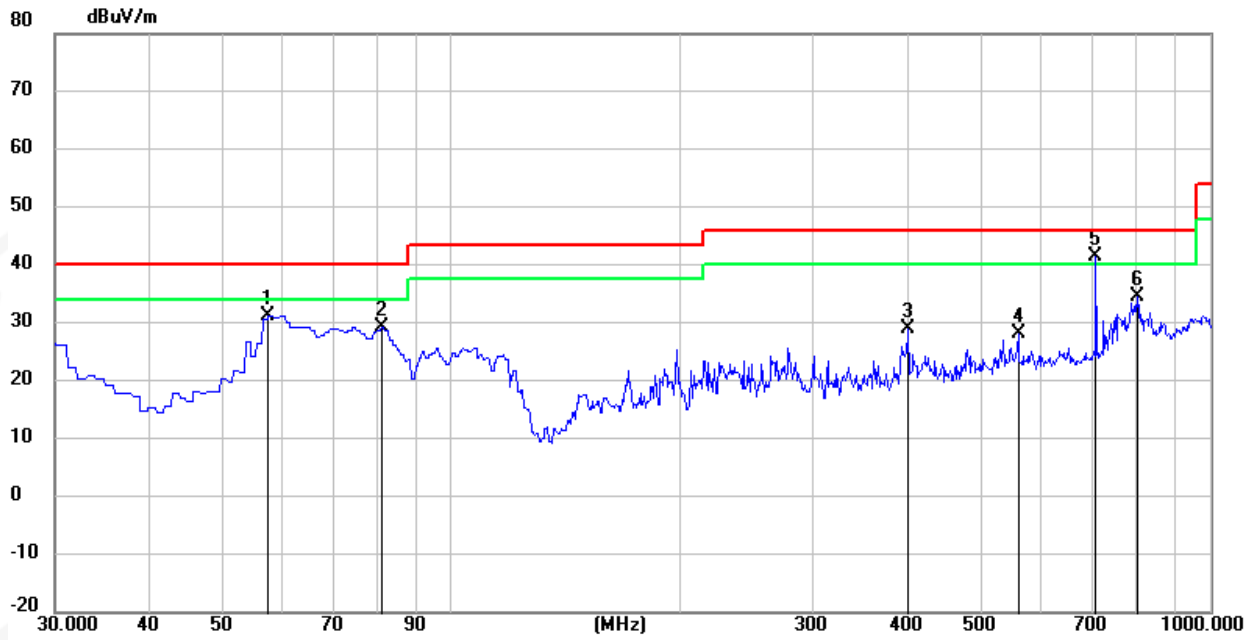
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. All modes have been tested,only show the worst case.



Temperature:	23.4°C	Relative Humidity:	56%
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	Mode 1/2/3 (Mode 2 worst mode)		

No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	57.3923	56.83	-25.48	31.35	40.00	-8.65	QP	Pass
2	80.9275	52.21	-22.87	29.34	40.00	-10.66	QP	Pass
3	399.5700	40.06	-11.16	28.90	46.00	-17.10	QP	Pass
4	557.6800	33.87	-5.55	28.32	46.00	-17.68	QP	Pass
5 *	706.0900	45.56	-3.98	41.58	46.00	-4.42	QP	Pass
6	801.1500	36.53	-2.04	34.49	46.00	-11.51	QP	Pass

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. All modes have been tested,only show the worst case.

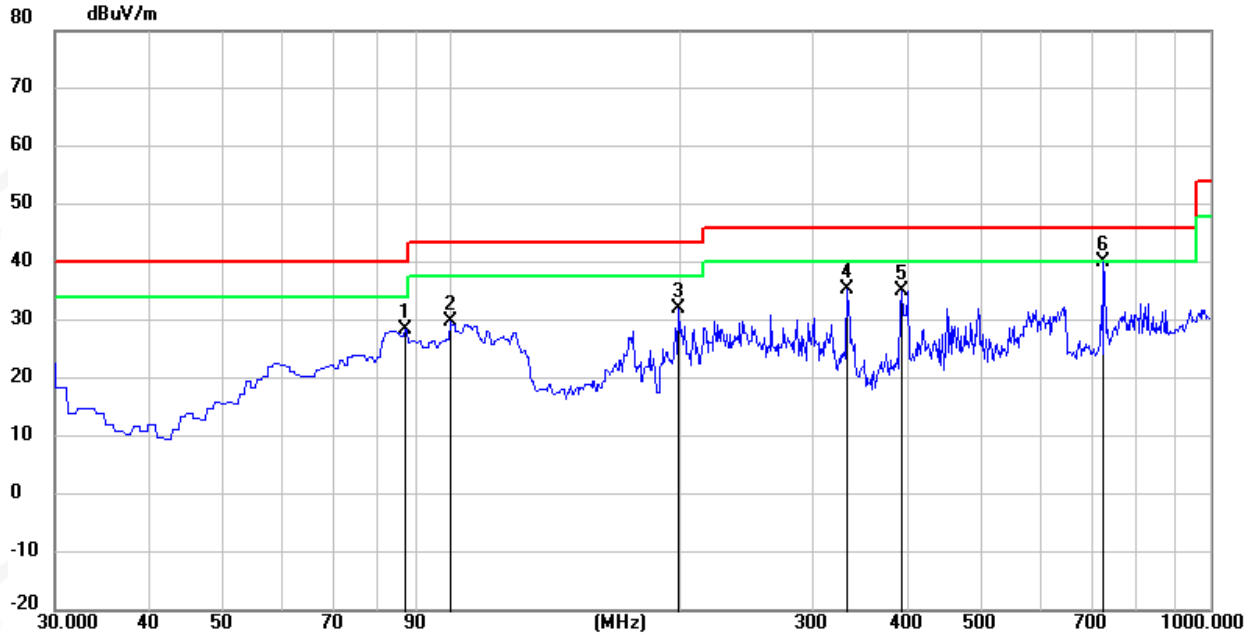


2M PHY

Temperature:	23.4°C	Relative Humidity:	56%
Test Voltage:	DC 12V	Phase:	Horizontal
Test Mode:	Mode 4/5/6 (Mode 5 worst mode)		

No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	86.8068	50.34	-21.89	28.45	40.00	-11.55	QP	Pass
2	99.5281	50.02	-20.21	29.81	43.50	-13.69	QP	Pass
3	198.5880	53.12	-21.12	32.00	43.50	-11.50	QP	Pass
4	331.6700	48.95	-13.65	35.30	46.00	-10.70	QP	Pass
5	390.8400	46.70	-11.54	35.16	46.00	-10.84	QP	Pass
6 *	723.5500	43.15	-2.97	40.18	46.00	-5.82	QP	Pass

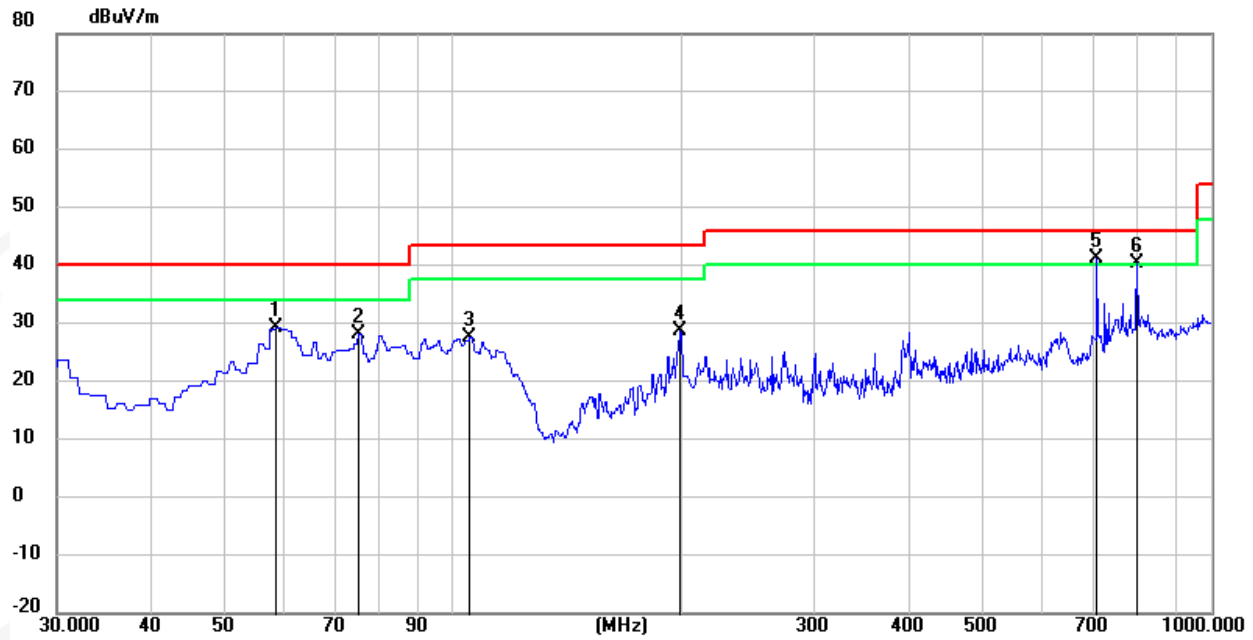
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. All modes have been tested,only show the worst case.



Temperature:	23.4°C	Relative Humidity:	56%
Test Voltage:	DC 12V	Phase:	Vertical
Test Mode:	Mode 4/5/6 (Mode 5 worst mode)		

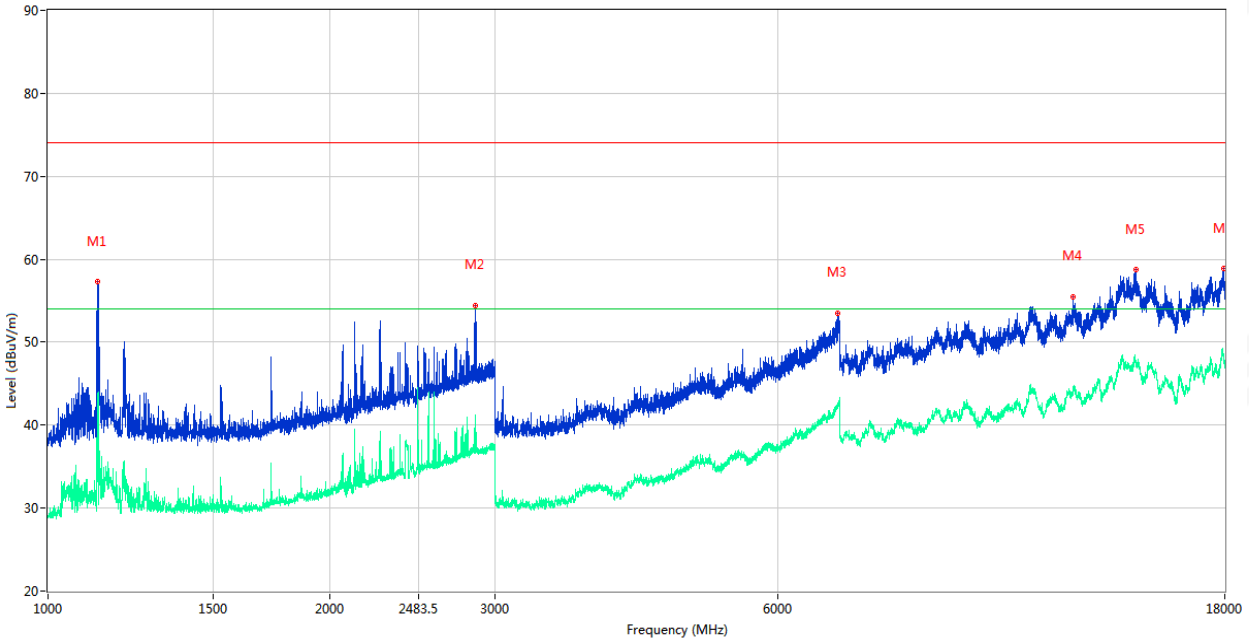
No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	58.4074	54.83	-25.63	29.20	40.00	-10.80	QP	Pass
2	74.9191	52.21	-23.93	28.28	40.00	-11.72	QP	Pass
3	105.2718	47.27	-19.57	27.70	43.50	-15.80	QP	Pass
4	198.5880	49.80	-21.12	28.68	43.50	-14.82	QP	Pass
5 *	705.1200	45.14	-4.01	41.13	46.00	-4.87	QP	Pass
6 !	797.2700	42.31	-2.03	40.28	46.00	-5.72	QP	Pass

Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. All modes have been tested,only show the worst case.



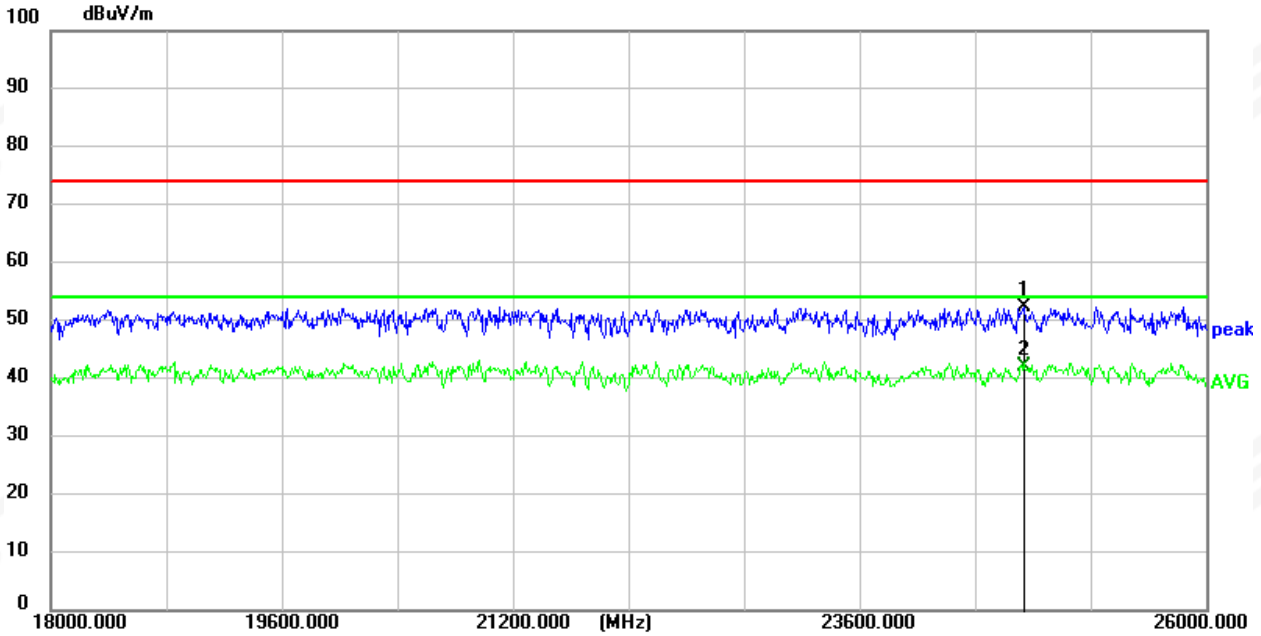
(1GHz-25GHz) Spurious emission Requirements

1M PHY
Low Channel
Horizontal



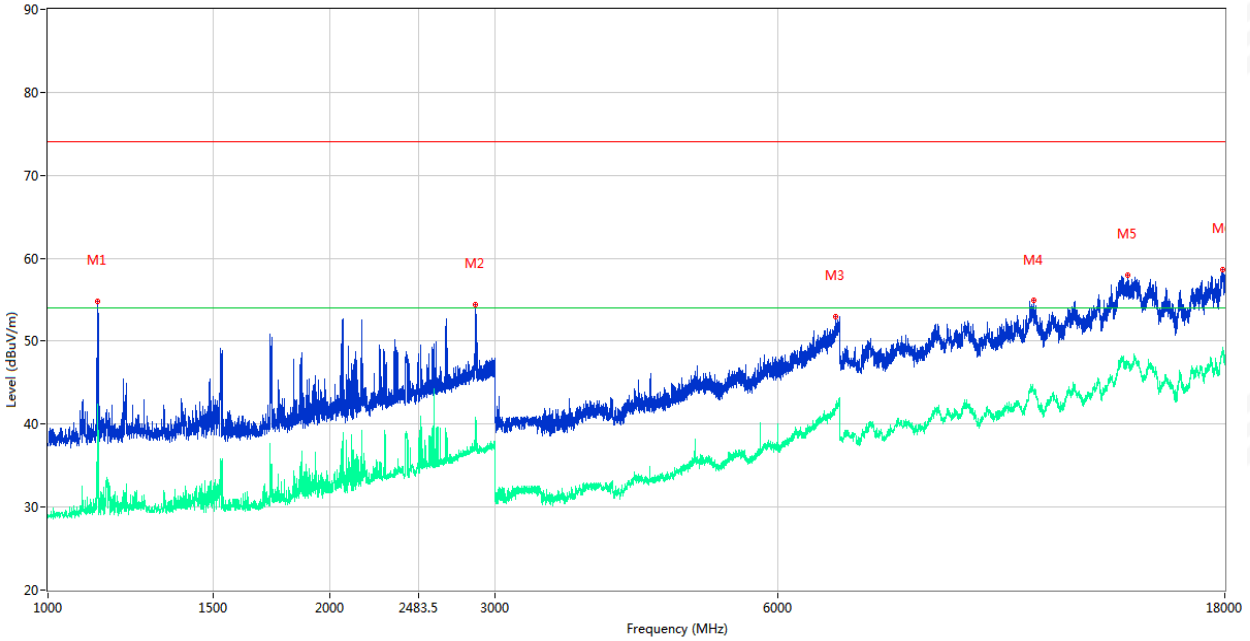
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	1130.500	57.25	-1.71	74.0	-16.75	Peak	91.70	Horizontal	Pass
1**	1130.500	43.74	-1.71	54.0	-10.26	AV	91.70	Horizontal	Pass
2	2855.500	54.38	4.98	74.0	-19.62	Peak	120.70	Horizontal	Pass
2**	2855.500	41.16	4.98	54.0	-12.84	AV	120.70	Horizontal	Pass
3	6949.000	53.49	0.91	74.0	-20.51	Peak	258.00	Horizontal	Pass
3**	6949.000	42.22	0.91	54.0	-11.78	AV	258.00	Horizontal	Pass
4	12414.750	55.48	3.03	74.0	-18.52	Peak	185.90	Horizontal	Pass
4**	12414.750	44.53	3.03	54.0	-9.47	AV	185.90	Horizontal	Pass
5	14460.750	58.69	6.56	74.0	-15.31	Peak	0.00	Horizontal	Pass
5**	14460.750	47.63	6.56	54.0	-6.37	AV	0.00	Horizontal	Pass
6	17936.751	58.83	6.96	74.0	-15.17	Peak	171.00	Horizontal	Pass
6**	17936.751	48.61	6.96	54.0	-5.39	AV	171.00	Horizontal	Pass

18GHz-26GHz



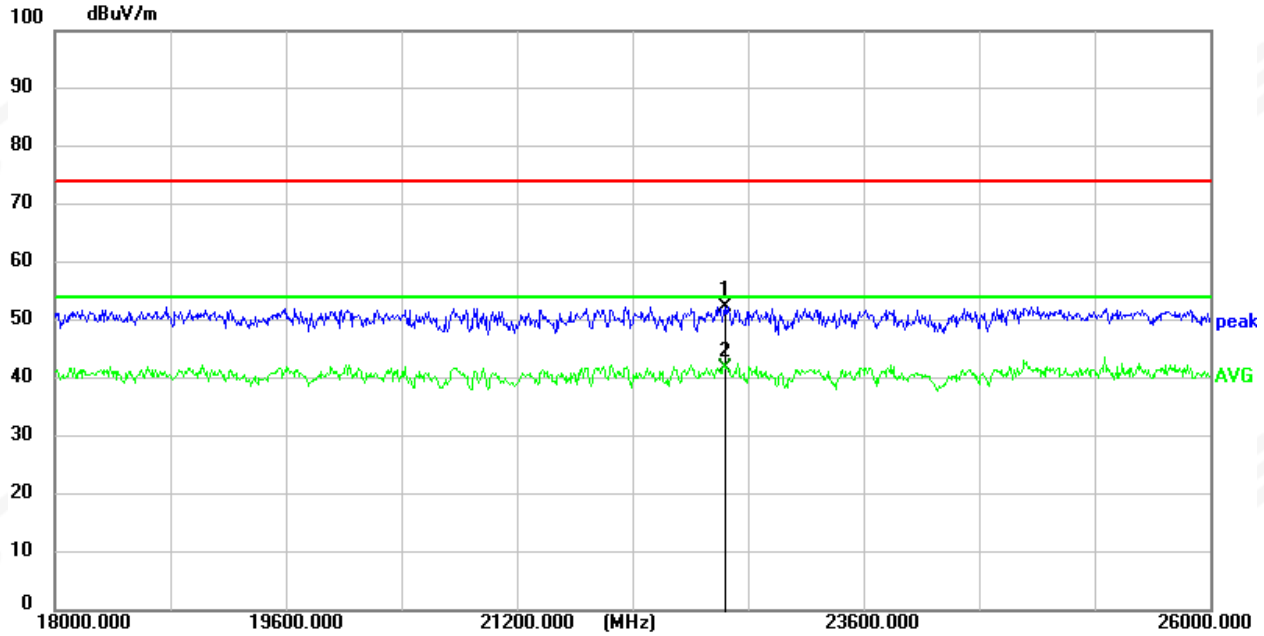
No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	24744.0000	47.43	5.00	52.43	74.00	-21.57	peak	Pass
2 *	24744.0000	37.22	5.00	42.22	54.00	-11.78	AVG	Pass

Vertical
1GHz-18GHz



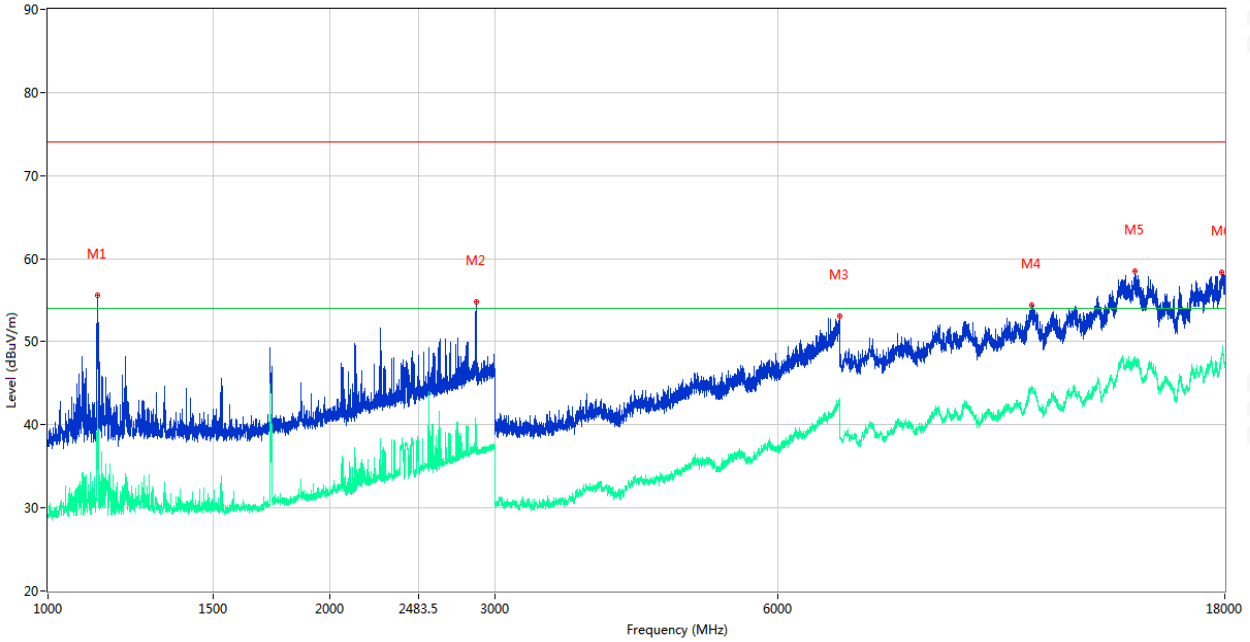
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	1130.000	54.75	-1.71	74.0	-19.25	Peak	135.60	Vertical	Pass
1**	1130.000	42.40	-1.71	54.0	-11.60	AV	135.60	Vertical	Pass
2	2856.000	54.39	4.98	74.0	-19.61	Peak	148.70	Vertical	Pass
2**	2856.000	40.13	4.98	54.0	-13.87	AV	148.70	Vertical	Pass
3	6927.000	53.00	0.73	74.0	-21.00	Peak	233.40	Vertical	Pass
3**	6927.000	42.45	0.73	54.0	-11.55	AV	233.40	Vertical	Pass
4	11257.000	54.87	2.43	74.0	-19.13	Peak	33.00	Vertical	Pass
4**	11257.000	43.83	2.43	54.0	-10.17	AV	33.00	Vertical	Pass
5	14196.750	57.91	6.96	74.0	-16.09	Peak	347.30	Vertical	Pass
5**	14196.750	47.14	6.96	54.0	-6.86	AV	347.30	Vertical	Pass
6	17923.000	58.60	7.06	74.0	-15.40	Peak	296.00	Vertical	Pass
6**	17923.000	48.81	7.06	54.0	-5.19	AV	296.00	Vertical	Pass

18GHz-26GHz



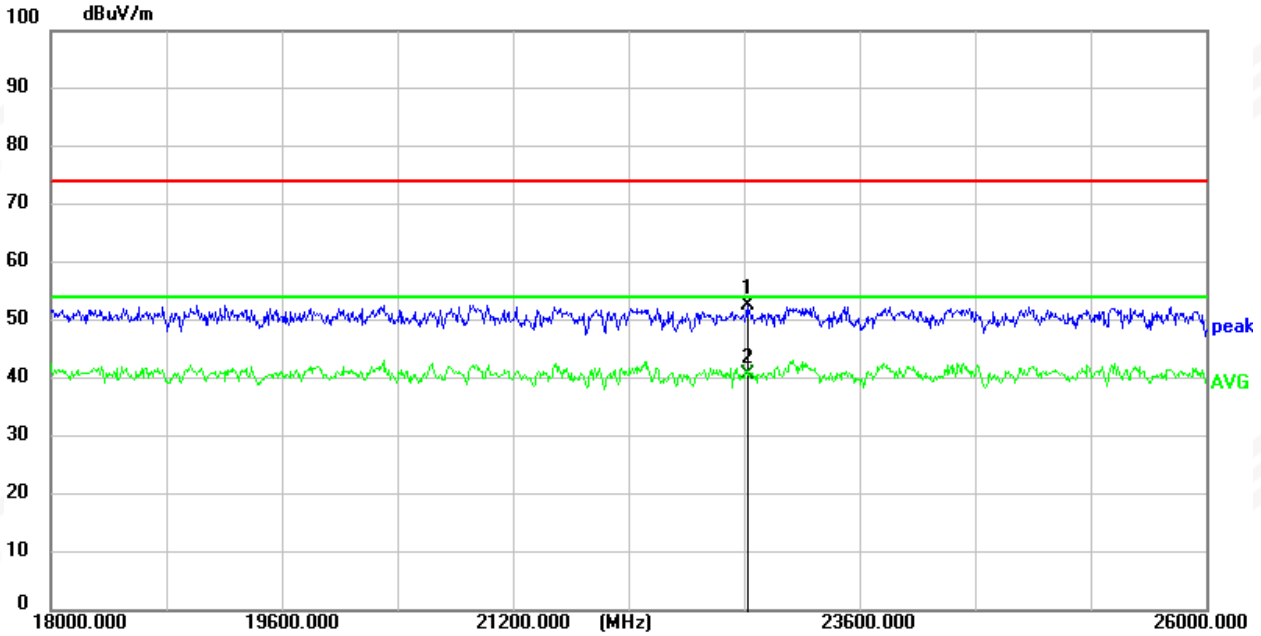
No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	22648.0000	48.61	3.84	52.45	74.00	-21.55	peak	Pass
2 *	22648.0000	37.95	3.84	41.79	54.00	-12.21	AVG	Pass

Mid Channel
Horizontal
1GHz-18GHz



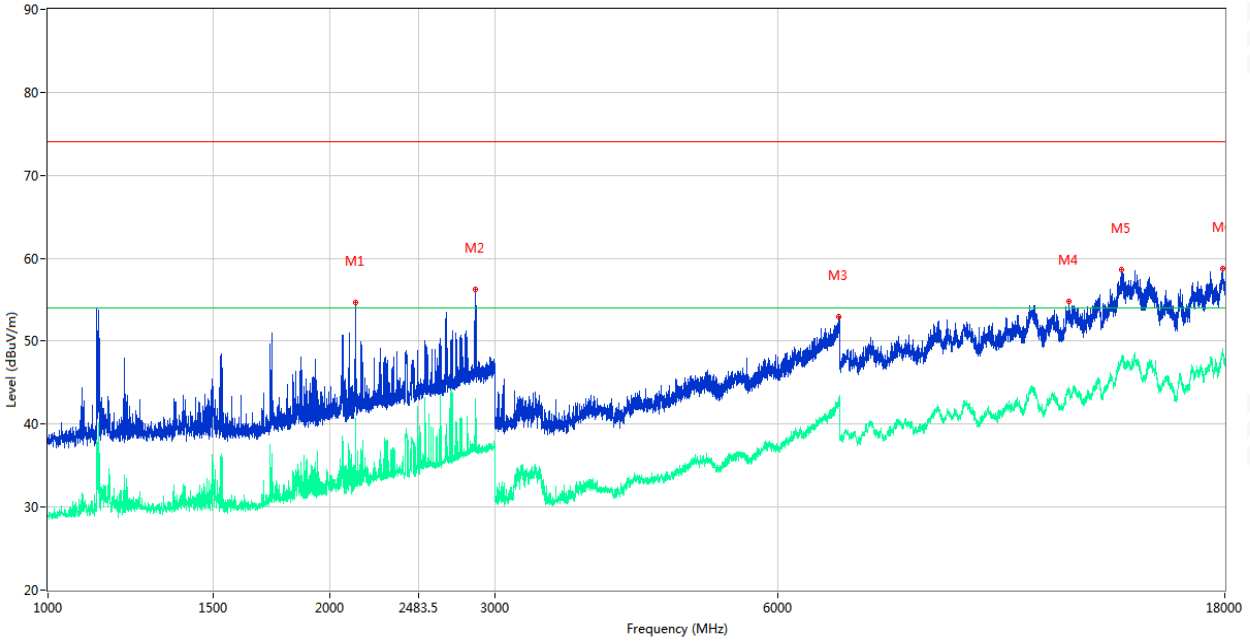
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	1129.000	55.63	-1.71	74.0	-18.37	Peak	147.10	Horizontal	Pass
1**	1129.000	42.43	-1.71	54.0	-11.57	AV	147.10	Horizontal	Pass
2	2865.000	54.77	4.97	74.0	-19.23	Peak	128.10	Horizontal	Pass
2**	2865.000	40.07	4.97	54.0	-13.93	AV	128.10	Horizontal	Pass
3	6987.000	53.09	1.21	74.0	-20.91	Peak	0.60	Horizontal	Pass
3**	6987.000	43.19	1.21	54.0	-10.81	AV	0.60	Horizontal	Pass
4	11210.250	54.44	2.59	74.0	-19.56	Peak	194.80	Horizontal	Pass
4**	11210.250	44.64	2.59	54.0	-9.36	AV	194.80	Horizontal	Pass
5	14444.250	58.55	6.68	74.0	-15.45	Peak	133.10	Horizontal	Pass
5**	14444.250	48.25	6.68	54.0	-5.75	AV	133.10	Horizontal	Pass
6	17848.750	58.42	6.80	74.0	-15.58	Peak	252.40	Horizontal	Pass
6**	17848.750	48.12	6.80	54.0	-5.88	AV	252.40	Horizontal	Pass

18GHz-26GHz



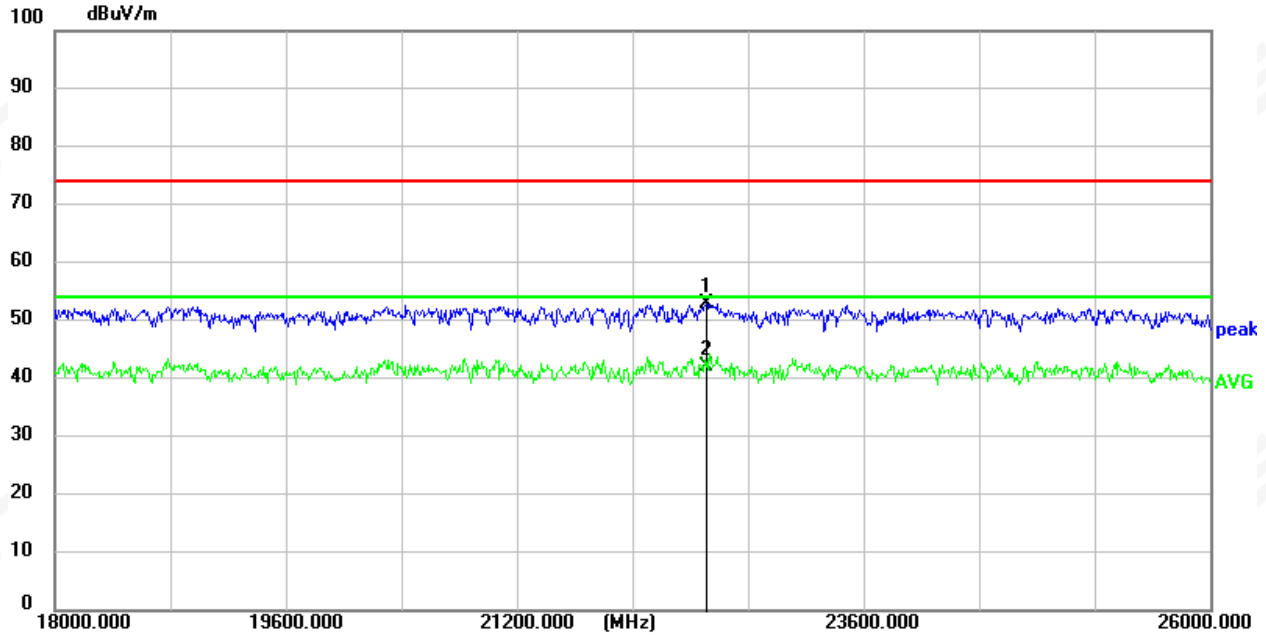
No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	22824.0000	48.84	3.74	52.58	74.00	-21.42	peak	Pass
2 *	22824.0000	37.01	3.74	40.75	54.00	-13.25	AVG	Pass

Vertical
1GHz-18GHz



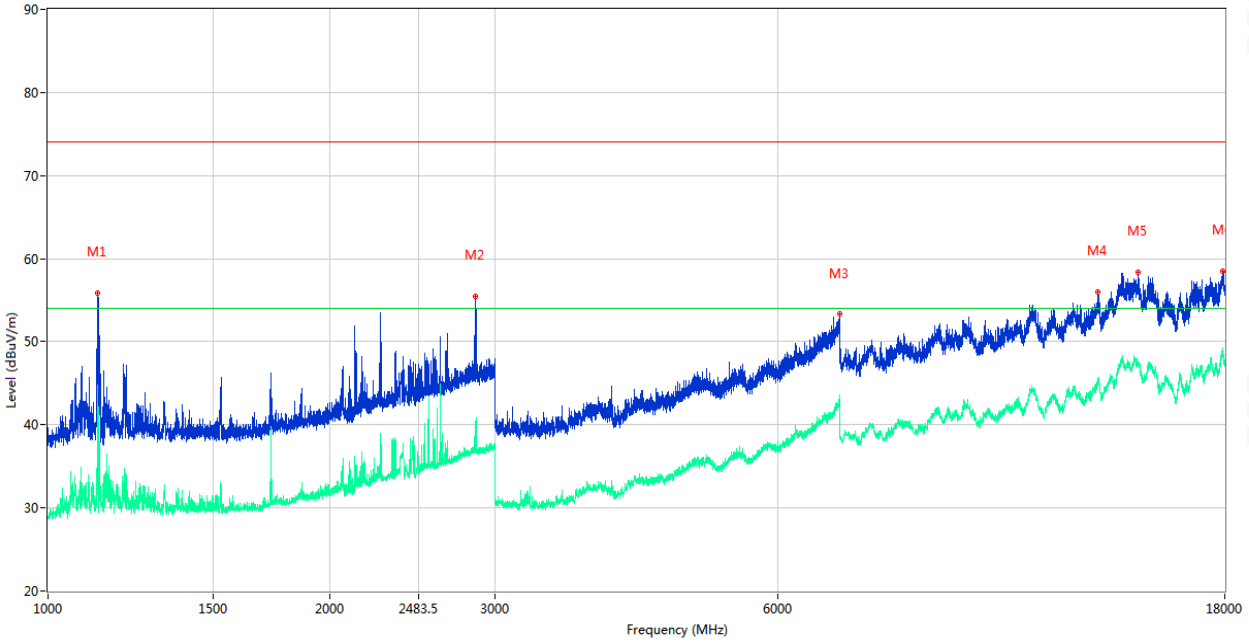
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2130.500	54.65	1.48	74.0	-19.35	Peak	101.20	Vertical	Pass
1**	2130.500	38.93	1.48	54.0	-15.07	AV	101.20	Vertical	Pass
2	2859.500	56.28	4.98	74.0	-17.72	Peak	141.30	Vertical	Pass
2**	2859.500	43.02	4.98	54.0	-10.98	AV	141.30	Vertical	Pass
3	6981.000	52.93	1.17	74.0	-21.07	Peak	76.10	Vertical	Pass
3**	6981.000	43.05	1.17	54.0	-10.95	AV	76.10	Vertical	Pass
4	12269.000	54.84	2.92	74.0	-19.16	Peak	81.00	Vertical	Pass
4**	12269.000	43.89	2.92	54.0	-10.11	AV	81.00	Vertical	Pass
5	13974.000	58.58	8.12	74.0	-15.42	Peak	252.80	Vertical	Pass
5**	13974.000	47.95	8.12	54.0	-6.05	AV	252.80	Vertical	Pass
6	17895.500	58.82	7.20	74.0	-15.18	Peak	349.70	Vertical	Pass
6**	17895.500	49.14	7.20	54.0	-4.86	AV	349.70	Vertical	Pass

18GHz-26GHz



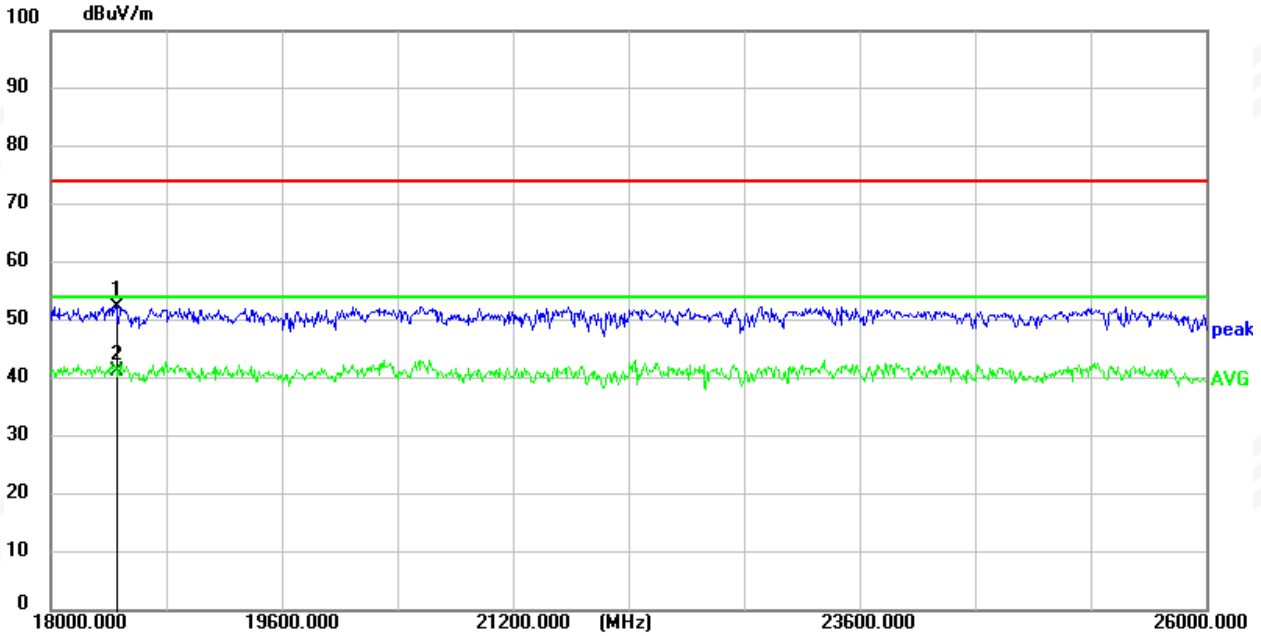
No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	22512.0000	48.93	3.91	52.84	74.00	-21.16	peak	Pass
2 *	22512.0000	38.11	3.91	42.02	54.00	-11.98	AVG	Pass

High Channel
Horizontal
1GHz-18GHz



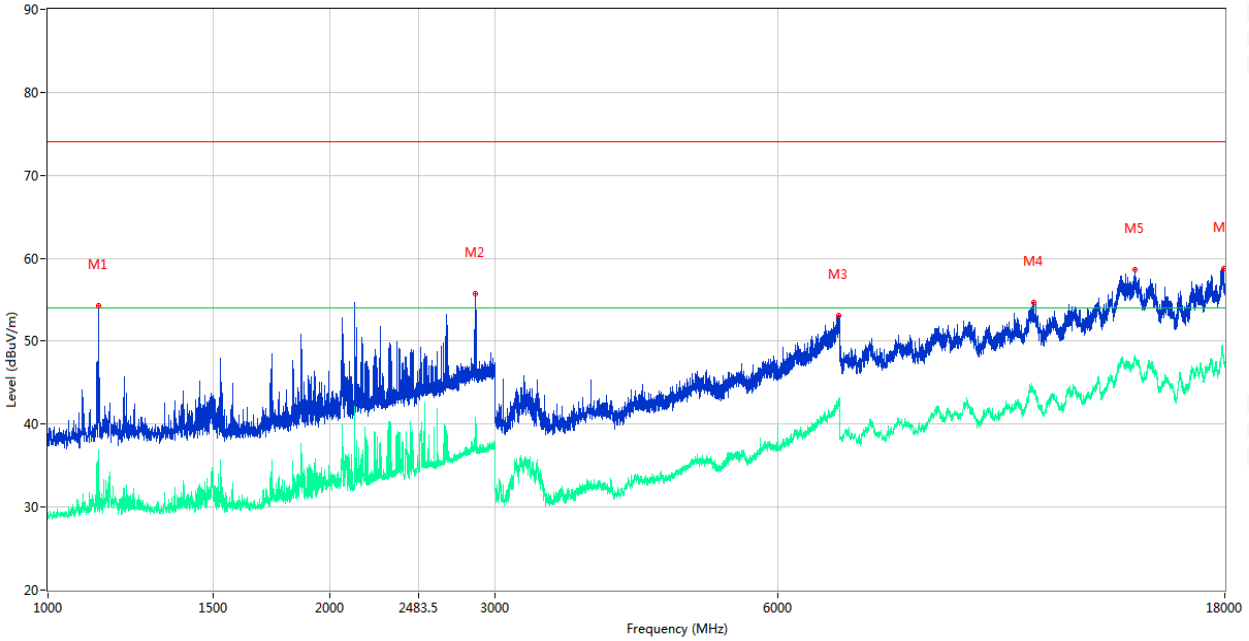
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	1129.000	55.84	-1.71	74.0	-18.16	Peak	87.40	Horizontal	Pass
1**	1129.000	44.73	-1.71	54.0	-9.27	AV	87.40	Horizontal	Pass
2	2853.500	55.49	4.99	74.0	-18.51	Peak	109.70	Horizontal	Pass
2**	2853.500	40.43	4.99	54.0	-13.57	AV	109.70	Horizontal	Pass
3	6986.000	53.29	1.21	74.0	-20.71	Peak	269.20	Horizontal	Pass
3**	6986.000	42.83	1.21	54.0	-11.17	AV	269.20	Horizontal	Pass
4	13193.000	55.96	5.37	74.0	-18.04	Peak	216.70	Horizontal	Pass
4**	13193.000	45.46	5.37	54.0	-8.54	AV	216.70	Horizontal	Pass
5	14537.750	58.39	6.30	74.0	-15.61	Peak	166.50	Horizontal	Pass
5**	14537.750	47.32	6.30	54.0	-6.68	AV	166.50	Horizontal	Pass
6	17895.500	58.52	7.20	74.0	-15.48	Peak	181.00	Horizontal	Pass
6**	17895.500	48.66	7.20	54.0	-5.34	AV	181.00	Horizontal	Pass

18GHz-26GHz



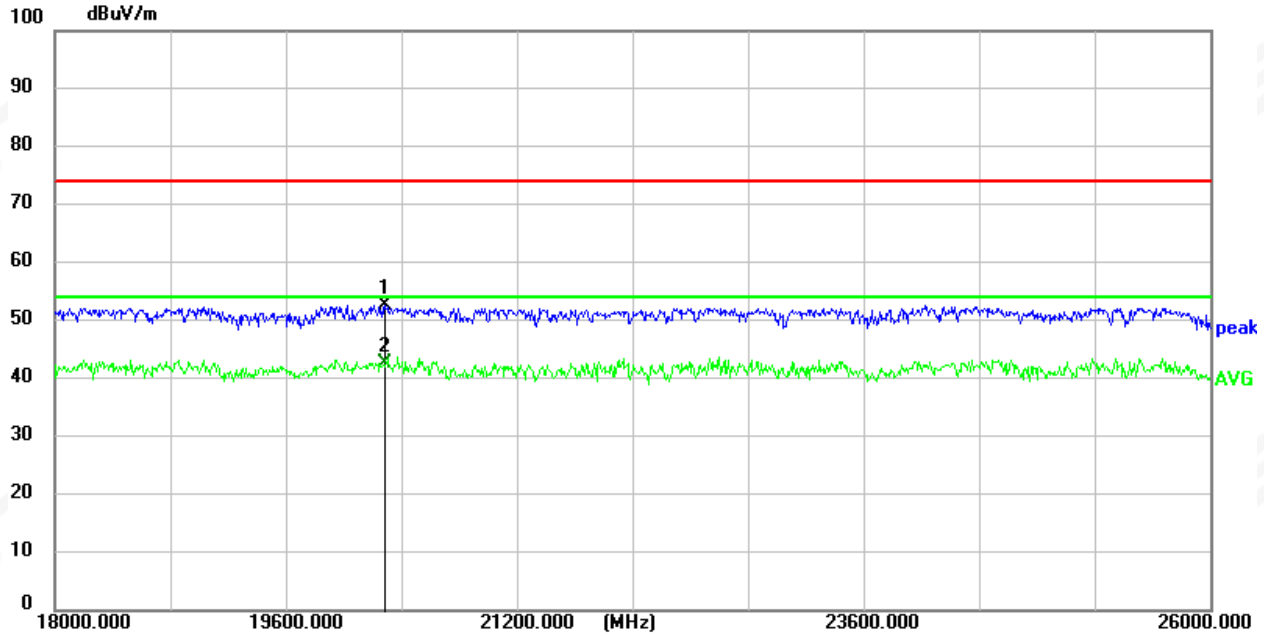
No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	18456.0000	50.22	2.28	52.50	74.00	-21.50	peak	Pass
2 *	18456.0000	38.86	2.28	41.14	54.00	-12.86	AVG	Pass

Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	1131.000	54.26	-1.71	74.0	-19.74	Peak	137.90	Vertical	Pass
1**	1131.000	36.90	-1.71	54.0	-17.10	AV	137.90	Vertical	Pass
2	2860.000	55.78	4.98	74.0	-18.22	Peak	146.40	Vertical	Pass
2**	2860.000	40.78	4.98	54.0	-13.22	AV	146.40	Vertical	Pass
3	6978.000	53.08	1.14	74.0	-20.92	Peak	247.00	Vertical	Pass
3**	6978.000	43.00	1.14	54.0	-11.00	AV	247.00	Vertical	Pass
4	11265.250	54.64	2.40	74.0	-19.36	Peak	164.20	Vertical	Pass
4**	11265.250	43.94	2.40	54.0	-10.06	AV	164.20	Vertical	Pass
5	14430.500	58.59	6.77	74.0	-15.41	Peak	173.20	Vertical	Pass
5**	14430.500	48.06	6.77	54.0	-5.94	AV	173.20	Vertical	Pass
6	17964.249	58.74	6.75	74.0	-15.26	Peak	77.50	Vertical	Pass
6**	17964.249	47.65	6.75	54.0	-6.35	AV	77.50	Vertical	Pass

18GHz-26GHz

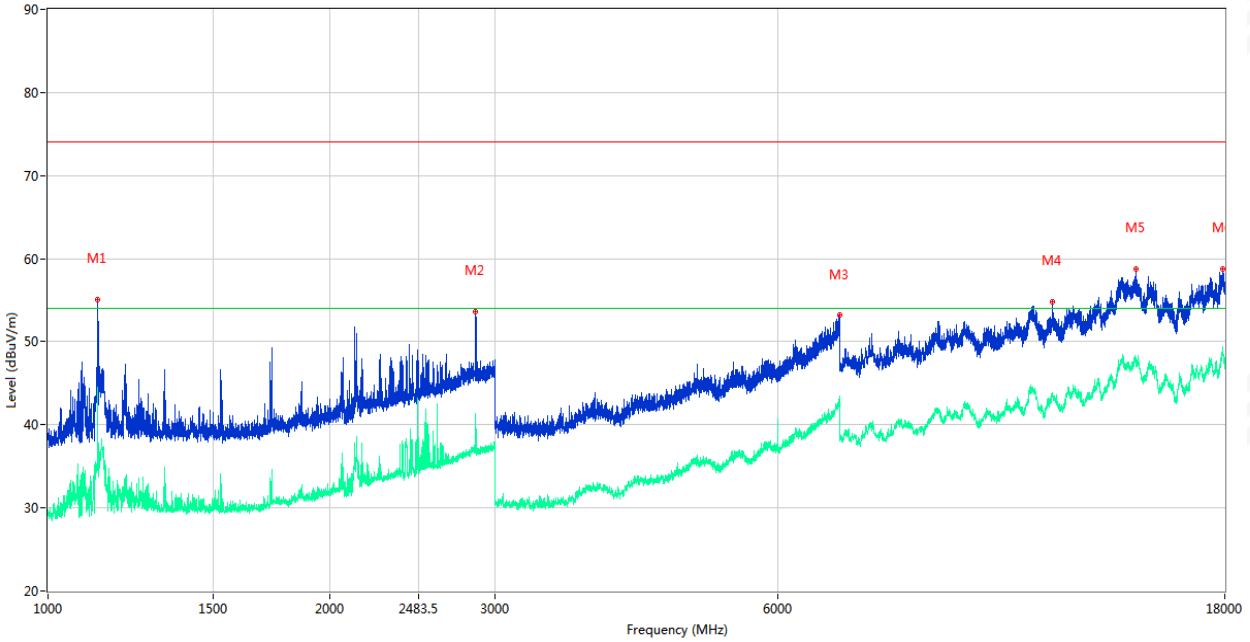


No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	20288.0000	50.65	2.05	52.70	74.00	-21.30	peak	Pass
2 *	20288.0000	40.69	2.05	42.74	54.00	-11.26	AVG	Pass

Note:

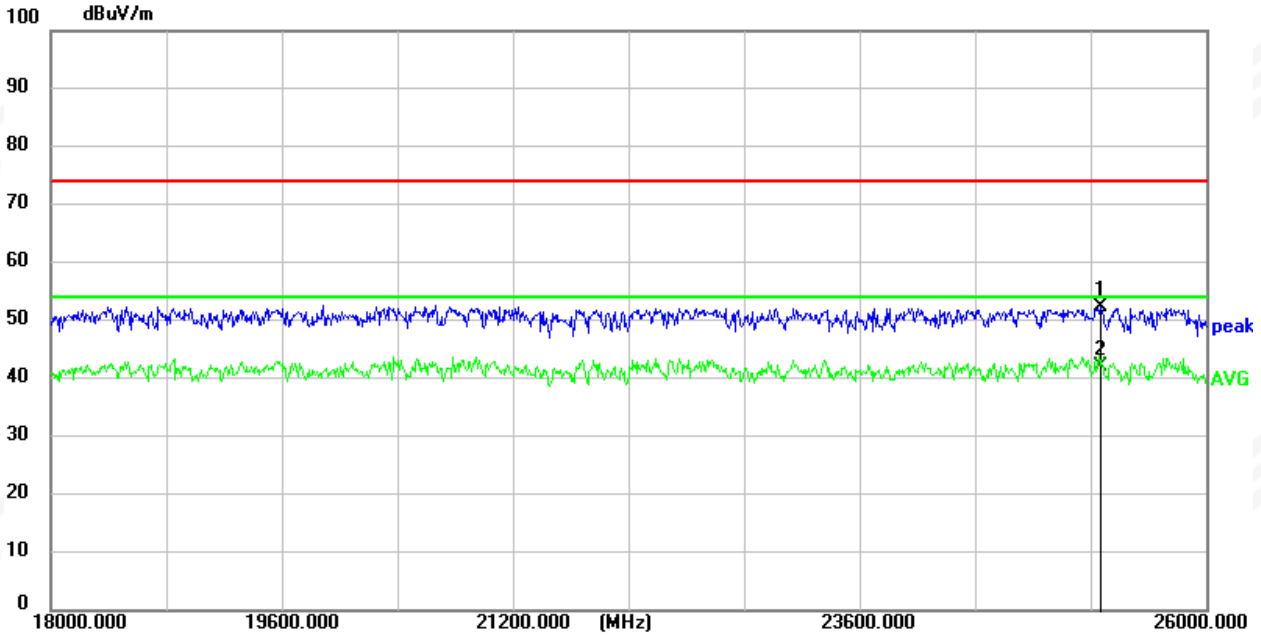
1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
   Emission Level = Reading + Factor.
2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

2M PHY
Low Channel
Horizontal



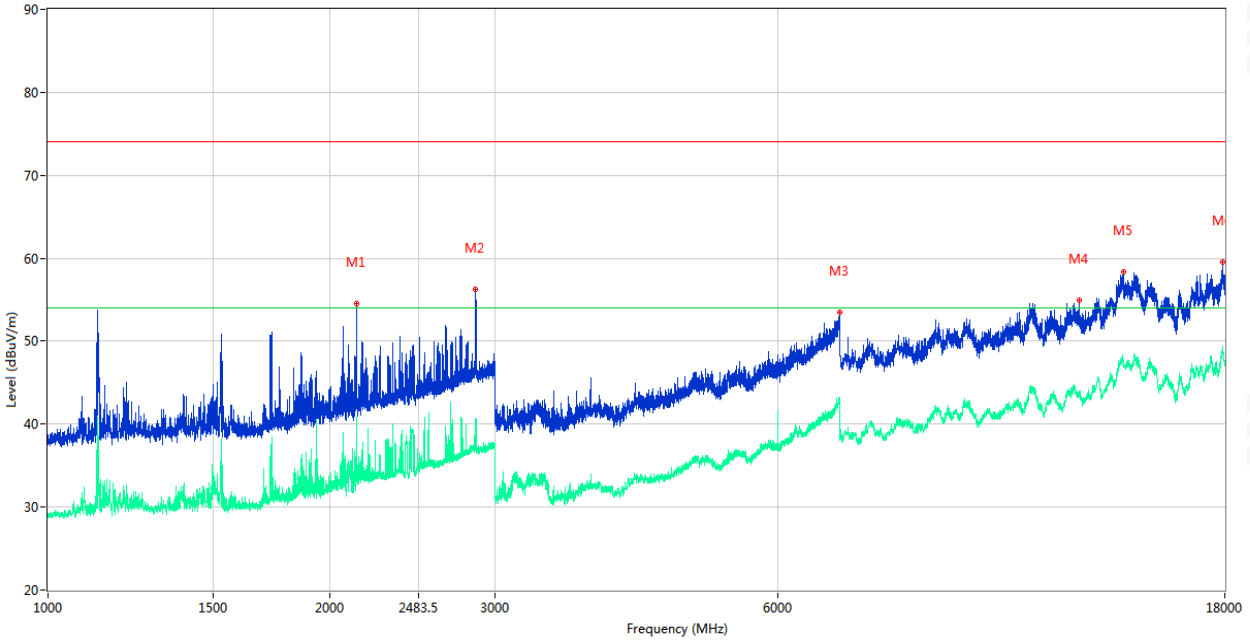
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	1129.000	55.09	-1.71	74.0	-18.91	Peak	100.70	Horizontal	Pass
1**	1129.000	44.47	-1.71	54.0	-9.53	AV	100.70	Horizontal	Pass
2	2857.500	53.58	4.98	74.0	-20.42	Peak	122.60	Horizontal	Pass
2**	2857.500	41.33	4.98	54.0	-12.67	AV	122.60	Horizontal	Pass
3	6987.000	53.16	1.21	74.0	-20.84	Peak	278.50	Horizontal	Pass
3**	6987.000	42.59	1.21	54.0	-11.41	AV	278.50	Horizontal	Pass
4	11798.750	54.81	2.16	74.0	-19.19	Peak	137.10	Horizontal	Pass
4**	11798.750	43.60	2.16	54.0	-10.40	AV	137.10	Horizontal	Pass
5	14482.750	58.74	6.40	74.0	-15.26	Peak	244.30	Horizontal	Pass
5**	14482.750	47.47	6.40	54.0	-6.53	AV	244.30	Horizontal	Pass
6	17887.250	58.81	7.13	74.0	-15.19	Peak	357.20	Horizontal	Pass
6**	17887.250	48.88	7.13	54.0	-5.12	AV	357.20	Horizontal	Pass

18GHz-26GHz



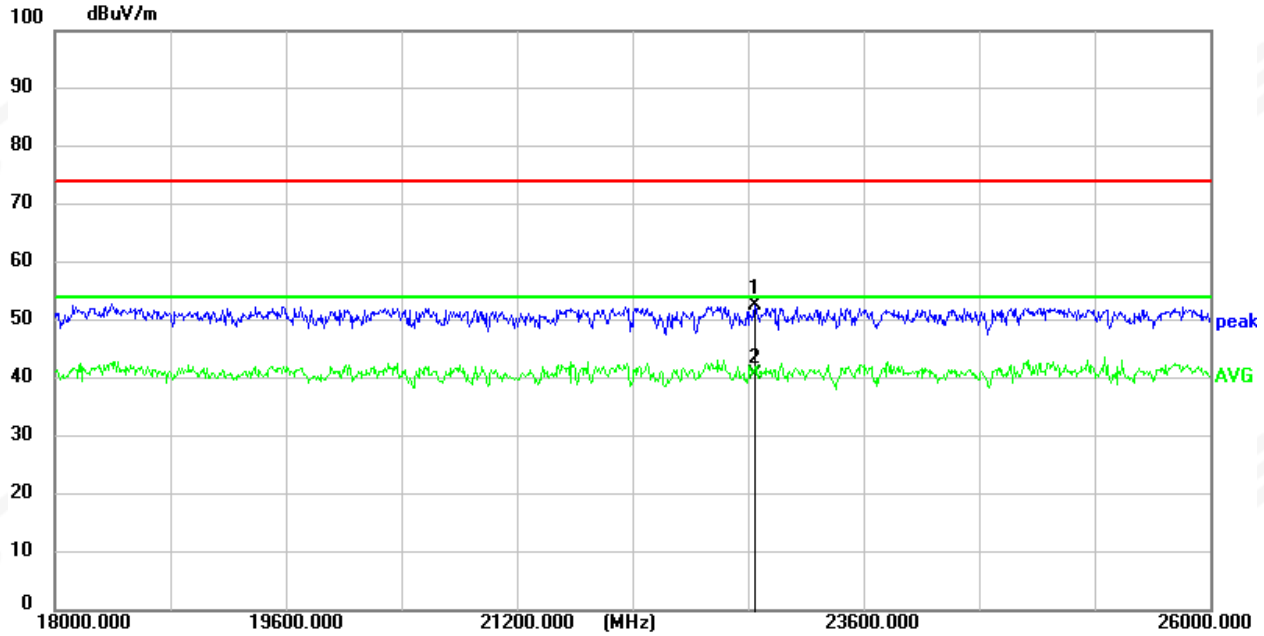
No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	25272.0000	46.91	5.49	52.40	74.00	-21.60	peak	Pass
2 *	25272.0000	36.66	5.49	42.15	54.00	-11.85	AVG	Pass

Vertical
1GHz-18GHz



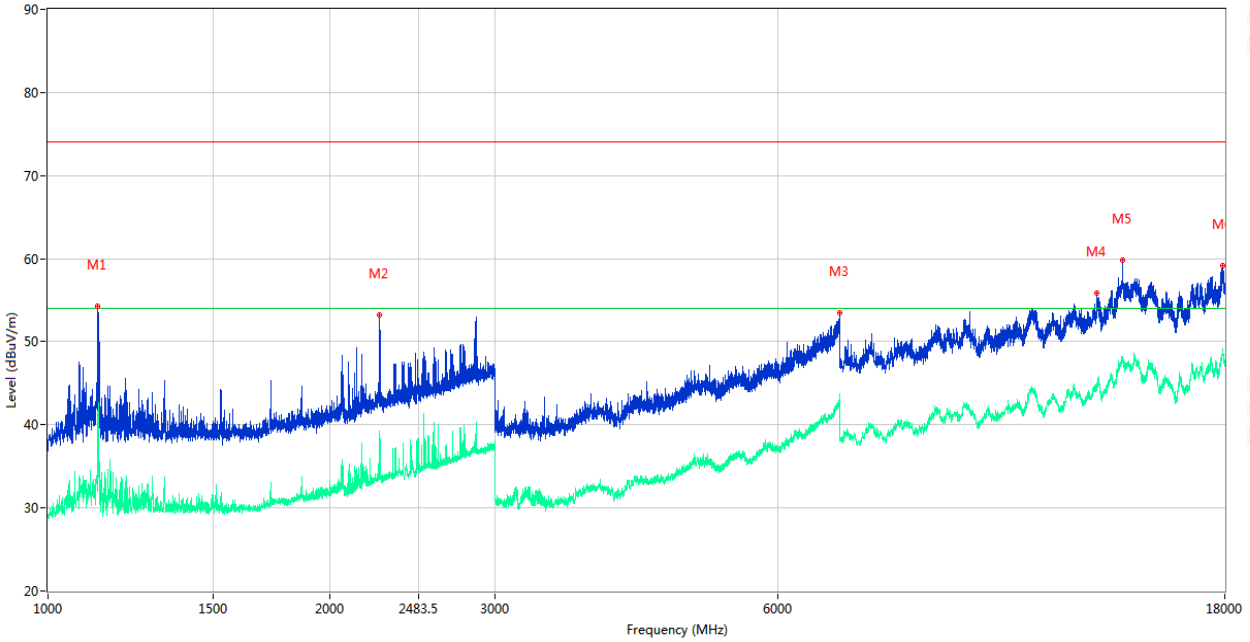
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2133.500	54.50	1.54	74.0	-19.50	Peak	95.90	Vertical	Pass
1**	2133.500	40.85	1.54	54.0	-13.15	AV	95.90	Vertical	Pass
2	2859.500	56.30	4.98	74.0	-17.70	Peak	133.40	Vertical	Pass
2**	2859.500	40.68	4.98	54.0	-13.32	AV	133.40	Vertical	Pass
3	6996.000	53.45	1.29	74.0	-20.55	Peak	265.80	Vertical	Pass
3**	6996.000	43.11	1.29	54.0	-10.89	AV	265.80	Vertical	Pass
4	12593.500	54.90	2.99	74.0	-19.10	Peak	218.60	Vertical	Pass
4**	12593.500	43.64	2.99	54.0	-10.36	AV	218.60	Vertical	Pass
5	14031.750	58.34	7.94	74.0	-15.66	Peak	257.70	Vertical	Pass
5**	14031.750	47.70	7.94	54.0	-6.30	AV	257.70	Vertical	Pass
6	17890.001	59.52	7.15	74.0	-14.48	Peak	273.70	Vertical	Pass
6**	17890.001	48.83	7.15	54.0	-5.17	AV	273.70	Vertical	Pass

18GHz-26GHz



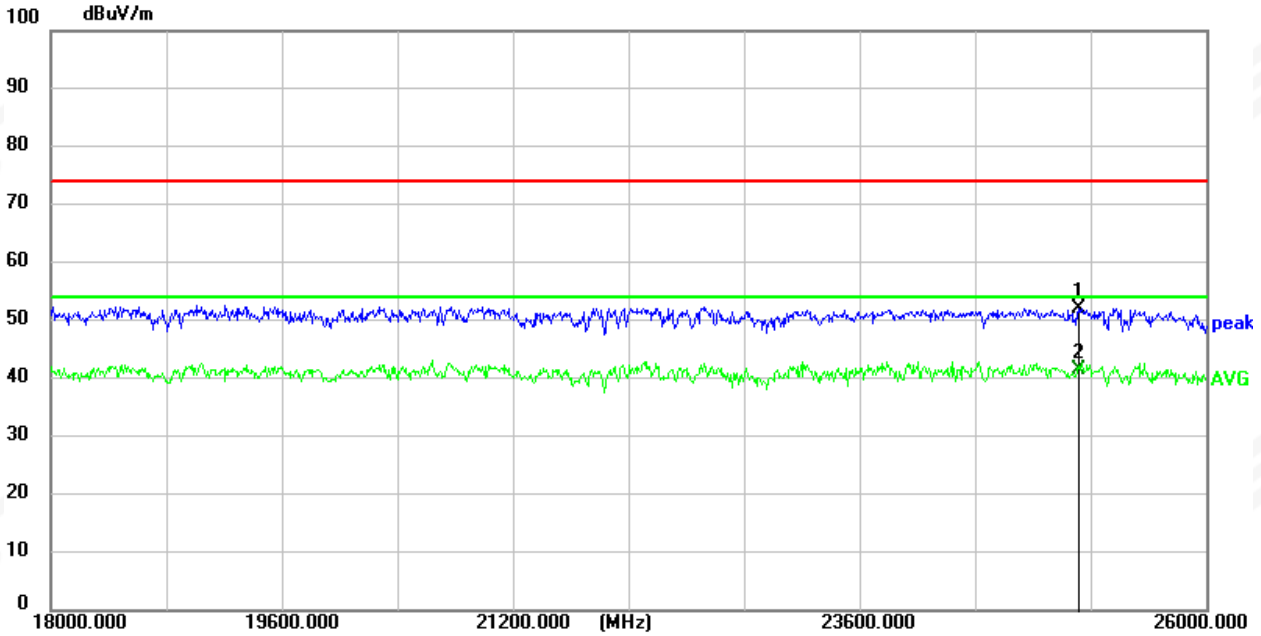
No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	22848.0000	48.79	3.72	52.51	74.00	-21.49	peak	Pass
2 *	22848.0000	36.92	3.72	40.64	54.00	-13.36	AVG	Pass

Mid Channel
Horizontal
1GHz-18GHz



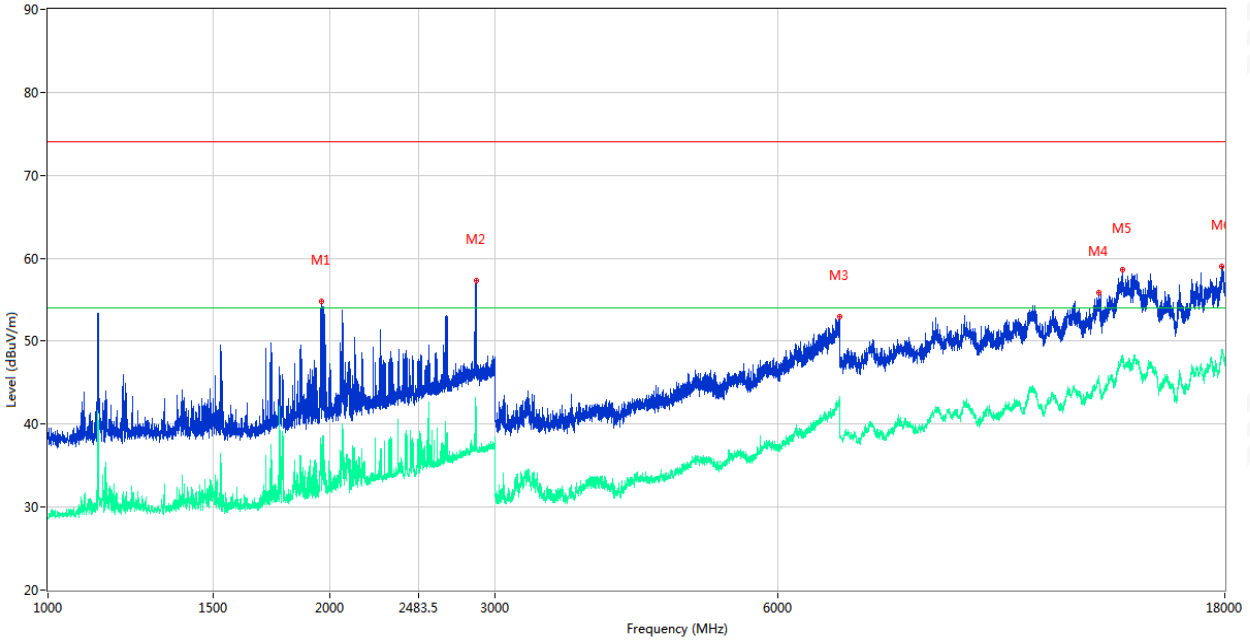
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	1130.500	54.26	-1.71	74.0	-19.74	Peak	347.50	Horizontal	Pass
1**	1130.500	41.57	-1.71	54.0	-12.43	AV	347.50	Horizontal	Pass
2	2257.500	53.23	2.17	74.0	-20.77	Peak	126.70	Horizontal	Pass
2**	2257.500	39.29	2.17	54.0	-14.71	AV	126.70	Horizontal	Pass
3	6986.000	53.49	1.21	74.0	-20.51	Peak	185.80	Horizontal	Pass
3**	6986.000	42.61	1.21	54.0	-11.39	AV	185.80	Horizontal	Pass
4	13154.500	55.84	5.00	74.0	-18.16	Peak	46.00	Horizontal	Pass
4**	13154.500	45.06	5.00	54.0	-8.94	AV	46.00	Horizontal	Pass
5	14009.750	59.82	8.29	74.0	-14.18	Peak	143.40	Horizontal	Pass
5**	14009.750	48.16	8.29	54.0	-5.84	AV	143.40	Horizontal	Pass
6	17912.001	59.13	7.15	74.0	-14.87	Peak	88.70	Horizontal	Pass
6**	17912.001	48.68	7.15	54.0	-5.32	AV	88.70	Horizontal	Pass

18GHz-26GHz



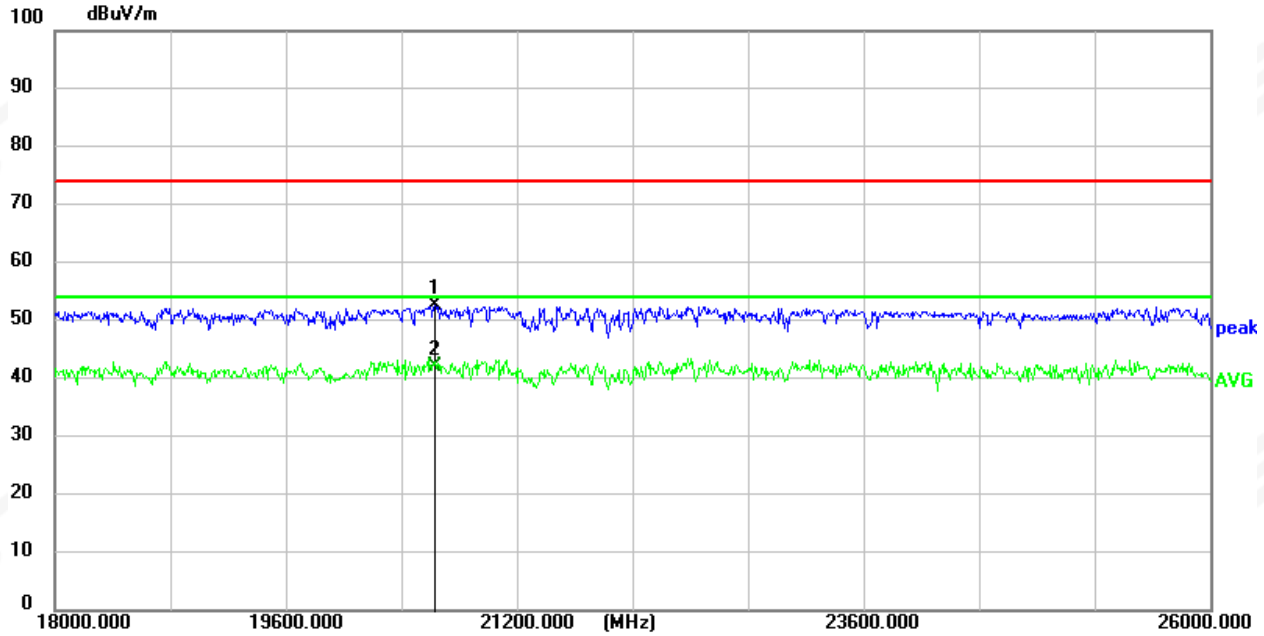
No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	25120.0000	46.67	5.38	52.05	74.00	-21.95	peak	Pass
2 *	25120.0000	36.10	5.38	41.48	54.00	-12.52	AVG	Pass

Vertical
1GHz-18GHz



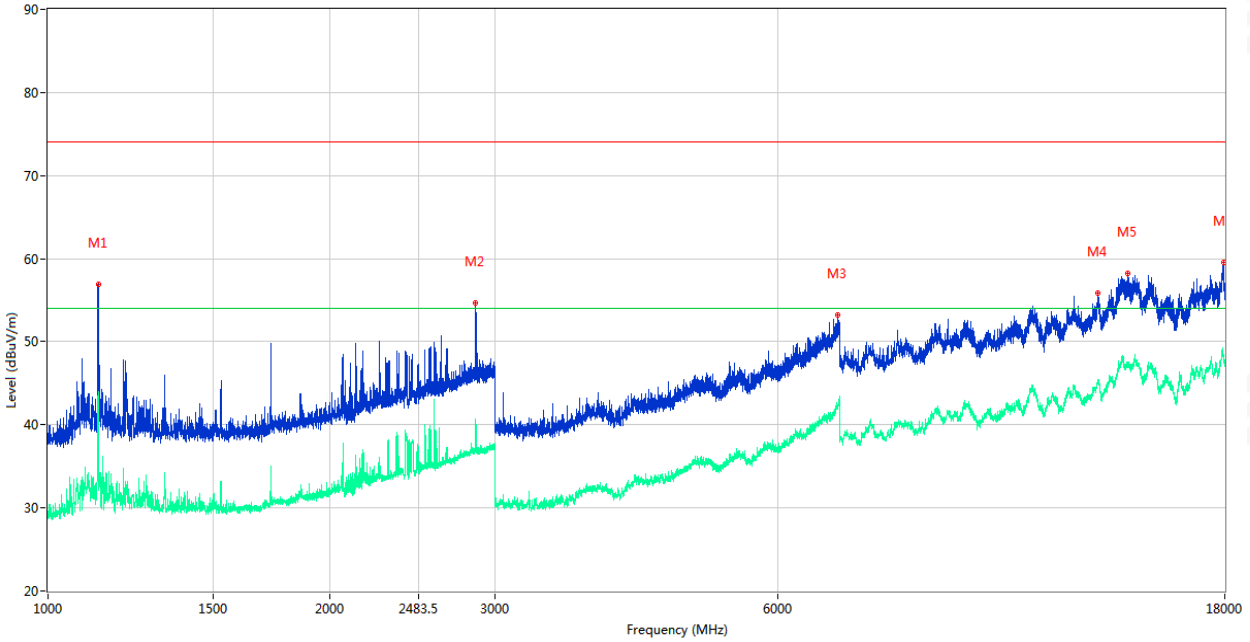
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	1957.000	54.77	0.05	74.0	-19.23	Peak	209.70	Vertical	Pass
1**	1957.000	36.79	0.05	54.0	-17.21	AV	209.70	Vertical	Pass
2	2865.000	57.32	4.97	74.0	-16.68	Peak	140.80	Vertical	Pass
2**	2865.000	42.11	4.97	54.0	-11.89	AV	140.80	Vertical	Pass
3	6997.000	52.99	1.30	74.0	-21.01	Peak	18.20	Vertical	Pass
3**	6997.000	42.94	1.30	54.0	-11.06	AV	18.20	Vertical	Pass
4	13226.000	55.80	4.92	74.0	-18.20	Peak	214.50	Vertical	Pass
4**	13226.000	45.05	4.92	54.0	-8.95	AV	214.50	Vertical	Pass
5	14007.000	58.67	8.34	74.0	-15.33	Peak	34.90	Vertical	Pass
5**	14007.000	48.31	8.34	54.0	-5.69	AV	34.90	Vertical	Pass
6	17881.750	58.98	7.08	74.0	-15.02	Peak	162.90	Vertical	Pass
6**	17881.750	48.95	7.08	54.0	-5.05	AV	162.90	Vertical	Pass

18GHz-26GHz



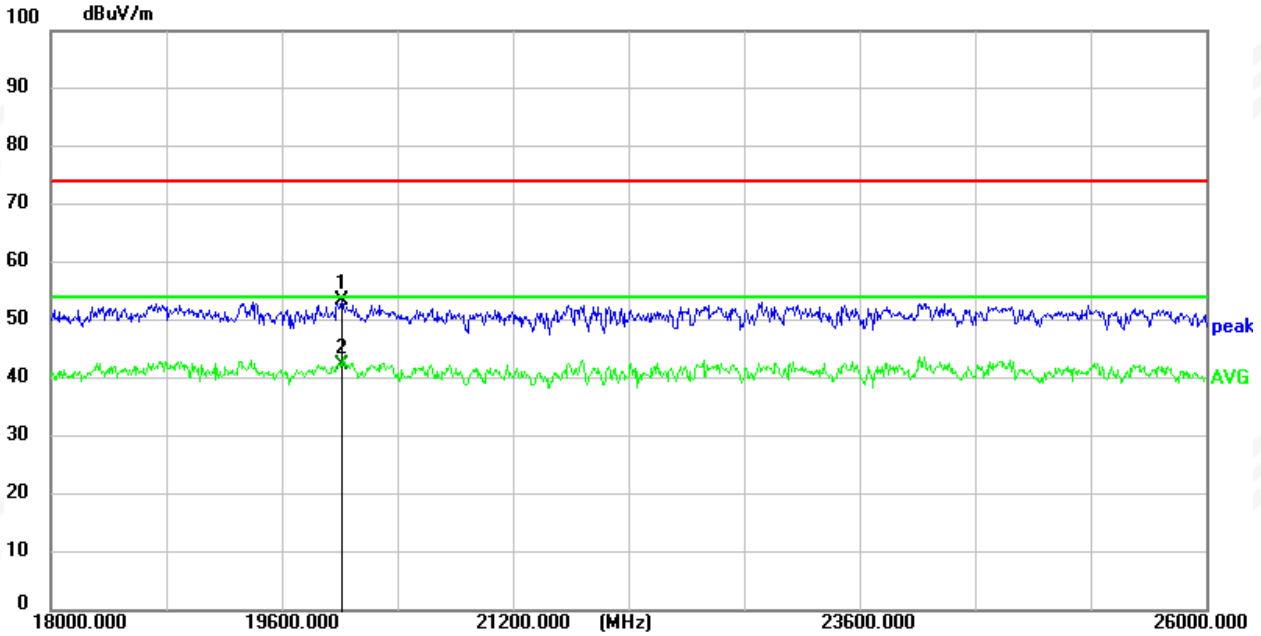
No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	20632.0000	50.29	2.35	52.64	74.00	-21.36	peak	Pass
2 *	20632.0000	39.77	2.35	42.12	54.00	-11.88	AVG	Pass

High Channel
Horizontal
1GHz-18GHz



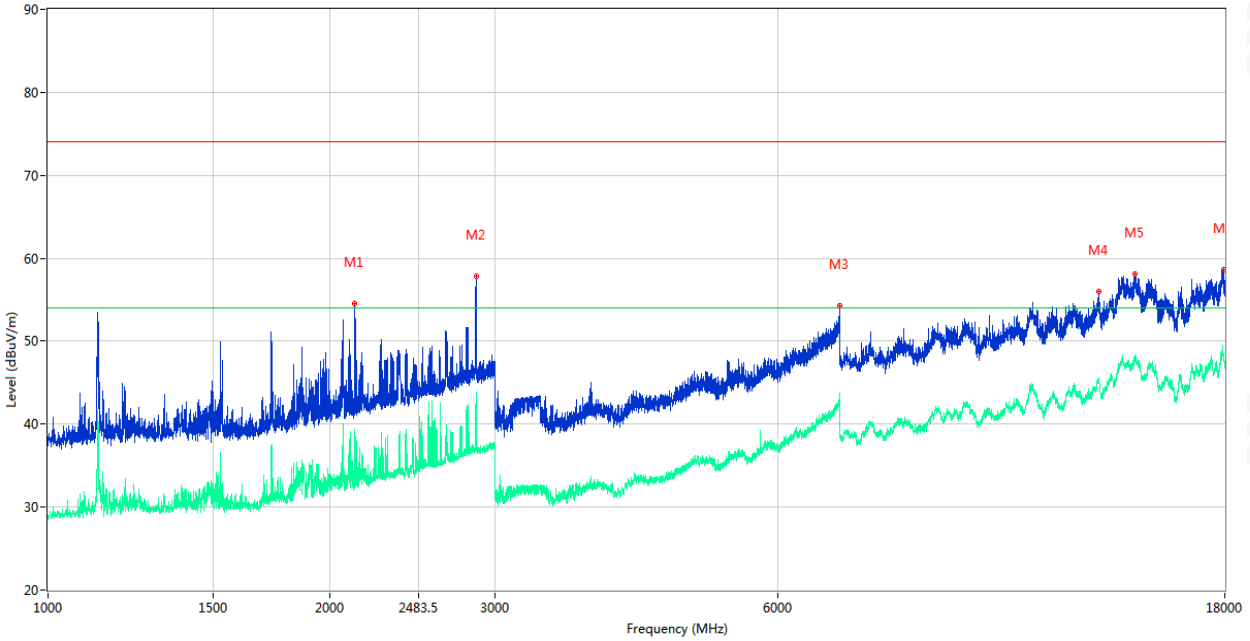
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	1131.000	56.91	-1.71	74.0	-17.09	Peak	96.60	Horizontal	Pass
1**	1131.000	43.97	-1.71	54.0	-10.03	AV	96.60	Horizontal	Pass
2	2858.000	54.64	4.98	74.0	-19.36	Peak	108.10	Horizontal	Pass
2**	2858.000	40.56	4.98	54.0	-13.44	AV	108.10	Horizontal	Pass
3	6964.000	53.21	1.03	74.0	-20.79	Peak	28.50	Horizontal	Pass
3**	6964.000	42.26	1.03	54.0	-11.74	AV	28.50	Horizontal	Pass
4	13171.000	55.86	5.16	74.0	-18.14	Peak	351.30	Horizontal	Pass
4**	13171.000	45.16	5.16	54.0	-8.84	AV	351.30	Horizontal	Pass
5	14177.500	58.29	6.94	74.0	-15.71	Peak	53.00	Horizontal	Pass
5**	14177.500	47.07	6.94	54.0	-6.93	AV	53.00	Horizontal	Pass
6	17945.000	59.58	6.89	74.0	-14.42	Peak	31.50	Horizontal	Pass
6**	17945.000	48.39	6.89	54.0	-5.61	AV	31.50	Horizontal	Pass

18GHz-26GHz



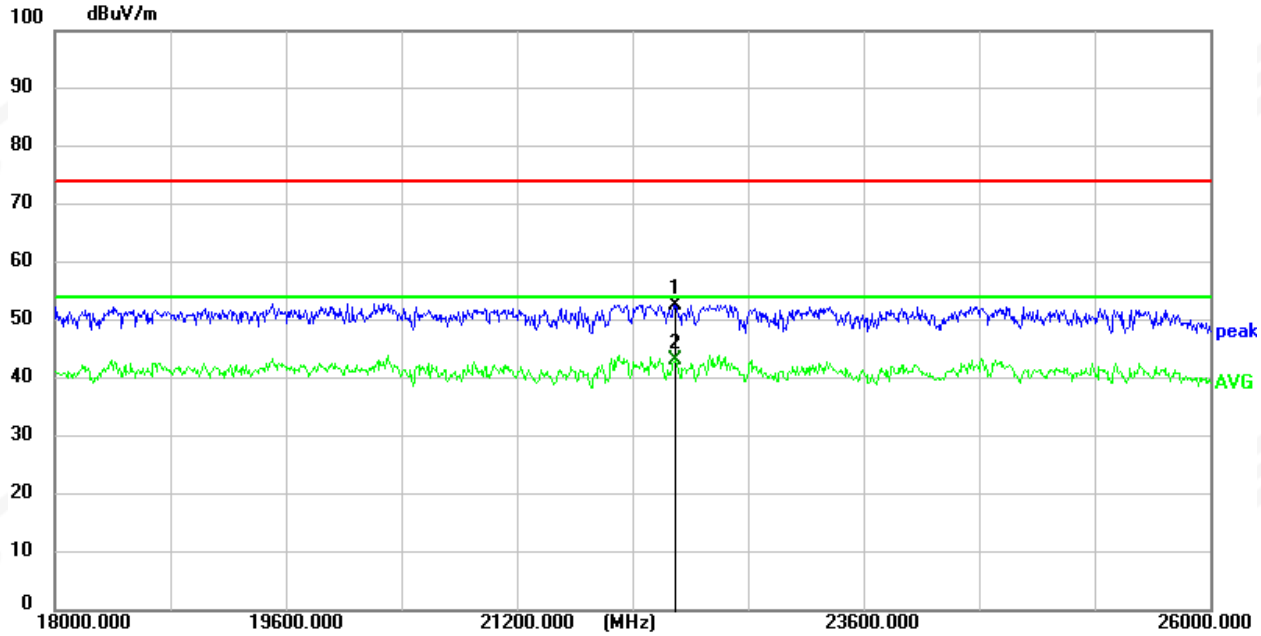
No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	20016.0000	51.58	1.81	53.39	74.00	-20.61	peak	Pass
2 *	20016.0000	40.55	1.81	42.36	54.00	-11.64	AVG	Pass

Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2124.500	54.52	1.36	74.0	-19.48	Peak	96.00	Vertical	Pass
1**	2124.500	39.33	1.36	54.0	-14.67	AV	96.00	Vertical	Pass
2	2864.500	57.80	4.97	74.0	-16.20	Peak	140.90	Vertical	Pass
2**	2864.500	43.80	4.97	54.0	-10.20	AV	140.90	Vertical	Pass
3	7000.000	54.28	1.32	74.0	-19.72	Peak	217.90	Vertical	Pass
3**	7000.000	42.99	1.32	54.0	-11.01	AV	217.90	Vertical	Pass
4	13198.500	55.98	5.43	74.0	-18.02	Peak	307.70	Vertical	Pass
4**	13198.500	45.40	5.43	54.0	-8.60	AV	307.70	Vertical	Pass
5	14422.250	58.12	6.83	74.0	-15.88	Peak	333.80	Vertical	Pass
5**	14422.250	47.94	6.83	54.0	-6.06	AV	333.80	Vertical	Pass
6	17939.499	58.61	6.94	74.0	-15.39	Peak	335.60	Vertical	Pass
6**	17939.499	48.41	6.94	54.0	-5.59	AV	335.60	Vertical	Pass

18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	22296.0000	49.01	3.72	52.73	74.00	-21.27	peak	Pass
2 *	22296.0000	39.35	3.72	43.07	54.00	-10.93	AVG	Pass

Note:

1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
   Emission Level = Reading + Factor.
2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

5. EMISSIONS AT RESTRICTED BAND

5.1 LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
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
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	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	Above 38.6
13.36-13.41			

5.2 TEST PROCEDURE

According to ANSI C63.10 Field Strength Approach (linear terms):

$$E = EIRP - 20 \log d + 104.8$$

Where:
E is the electric field strength in dBuV/m
EIRP is the equivalent isotropically radiated power in dBm
d is the specified measurement distance in m
f) Compare the resultant electric field strength level with the applicable regulatory limit.
g) Perform the radiated spurious emission test.

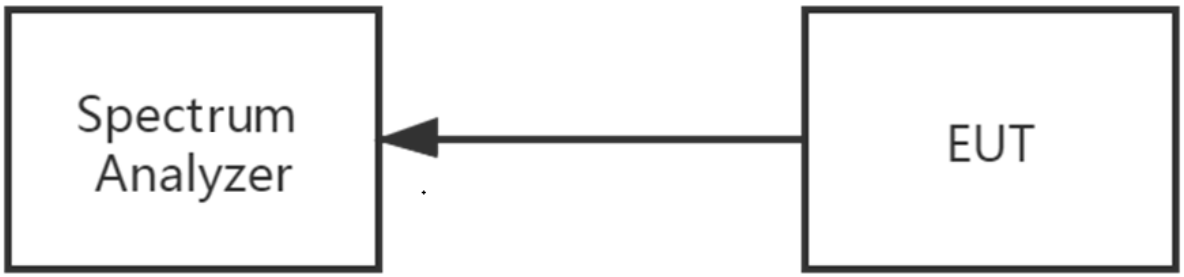
Where all terms are as previously defined.

1). Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2). Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to an EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3). Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=3 MHz for AVG detector, Max Hold=Average, Trace=100times for AV test.
4). Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5). Repeat above procedures until all measured frequencies were complete.
6). Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
7). Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)
8). Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies >

1000 MHz).
9). For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
10). Compare the resultant electric field strength level to the applicable regulatory limit.
11). Perform radiated spurious emission test duress until all measured frequencies were complete.

5.3 DEVIATION FROM STANDARD
No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS
Please refer to section 3.1.4 of this report.

5.6 TEST RESULTS
Note: The test data please refer to APPENDIX 1.
Remark:
1). Test results including cable loss;
2). Measured at difference Packet Type for each mode and recorded worst case for each mode.
3). “---“means that the fundamental frequency not for 15.209 limits requirement.
4). Measured at Hopping and Non-Hopping mode, recorded worst at Non-Hopping mode.
5). The other emission levels were very low against the limit.
6). The average measurement was not performed when the peak measured data under the limit of average detection.
7). Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=3MHz/Sweep time=Auto/Detector=RMS, Max Hold=Average, Trace=100times.
8). Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

6. DUTY CYCLE

6.1 TEST STANDARD
Please refer to ANSI C63.10-2020+Cor 1-2023 Section 11.6

6.2 TEST PROCEDURE

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Zero
RB	set RBW to the largest available value
VB	VBW ⩾ RBW.
Detector	Peak
Trace	Clear Write
Sweep Time	Auto

6.3 DEVIATION FROM STANDARD
No deviation.

6.4 TEST SETUP

6.5 EUT OPERATION CONDITIONS
The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS
Note: The test data please refer to APPENDIX 1.

7. CONDUCTED SPURIOUS & BAND EDGE EMISSION

7.1 LIMIT

According to FCC section 15.247(d),, in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

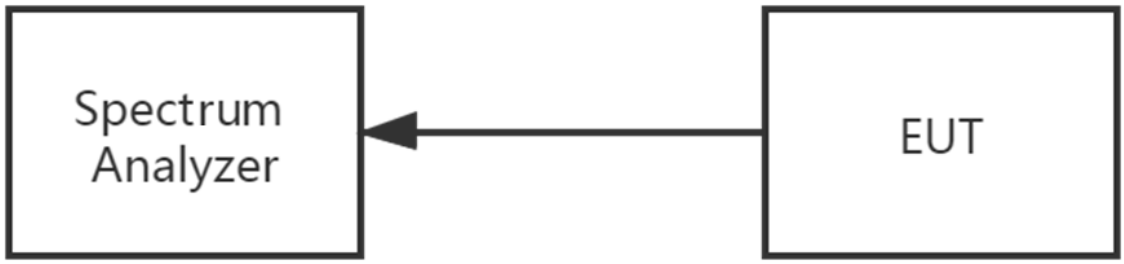
7.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

7.3 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna termina is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

7.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

7.5 TEST RESULTS

Note: 1.The test data please refer to APPENDIX 1.

2. Input compensation coefficient (dB) = Cable Loss (dB)

For Conducted spurious emissions plots from 30MHz to 26.5GHz, the worst cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test

8. POWER SPECTRAL DENSITY TEST

8.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS

8.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to: 100 kHz ≥ RBW ≥ 3 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

8.3 TEST SETUP

8.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

8.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

9. BANDWIDTH TEST

9.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

9.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW≥3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be≥6 dB.

9.3 TEST SETUP

9.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

9.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

10. PEAK OUTPUT POWER TEST

10.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

10.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

RBW ≥ DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

a) Set the RBW ≥ DTS bandwidth.
b) Set VBW ≥ [3 × RBW].
c) Set span ≥ [3 × 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.

10.3 TEST SETUP

10.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

10.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

11. ANTENNA REQUIREMENT

11.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

11.2 EUT ANTENNA

The EUT antenna is PCB Antenna. It comply with the standard requirement.

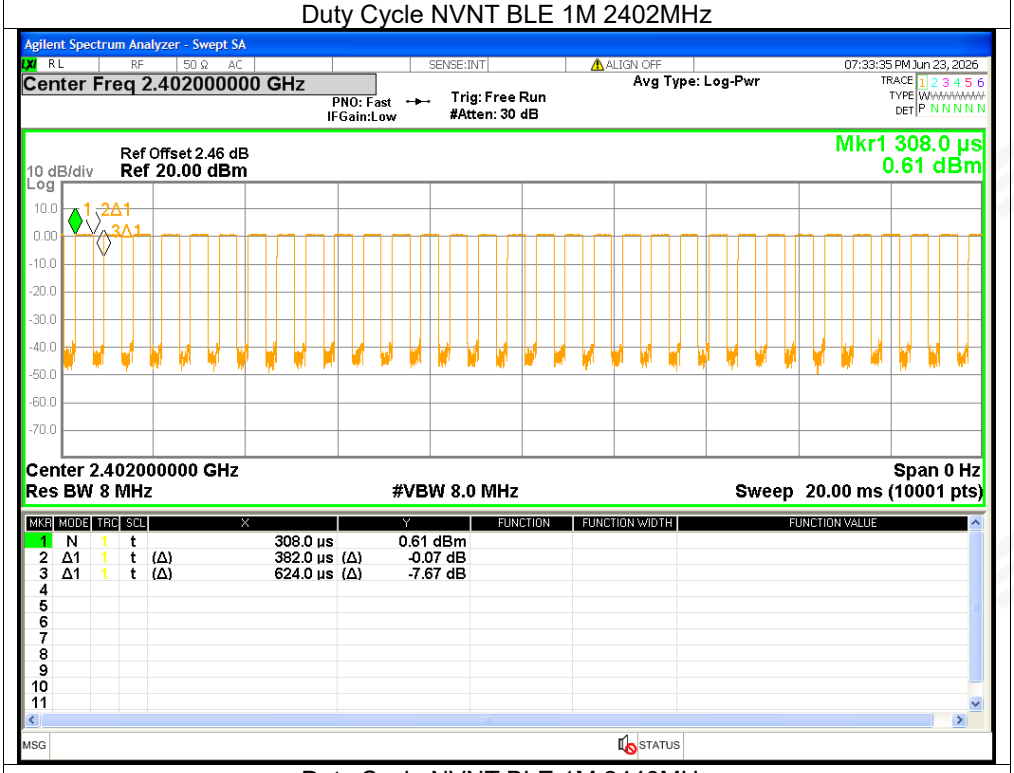
APPENDIX 1-TEST DATA

Duty Cycle

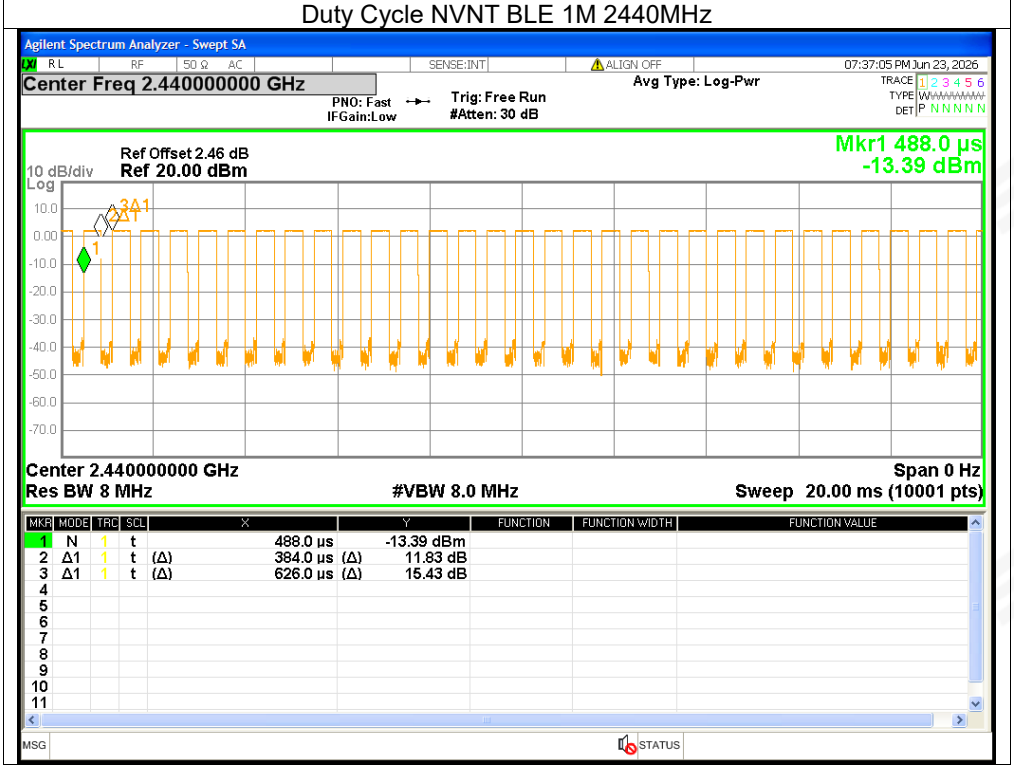
Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	0.382	0.624	61.22	2.13	2.62
NVNT	BLE 1M	2440	0.384	0.626	61.34	2.12	2.6
NVNT	BLE 1M	2480	0.382	0.624	61.22	2.13	2.62
NVNT	BLE 2M	2402	0.204	0.625	32.64	4.86	4.9
NVNT	BLE 2M	2440	0.204	0.625	32.64	4.86	4.9
NVNT	BLE 2M	2480	0.204	0.625	32.64	4.86	4.9

Test Graphs

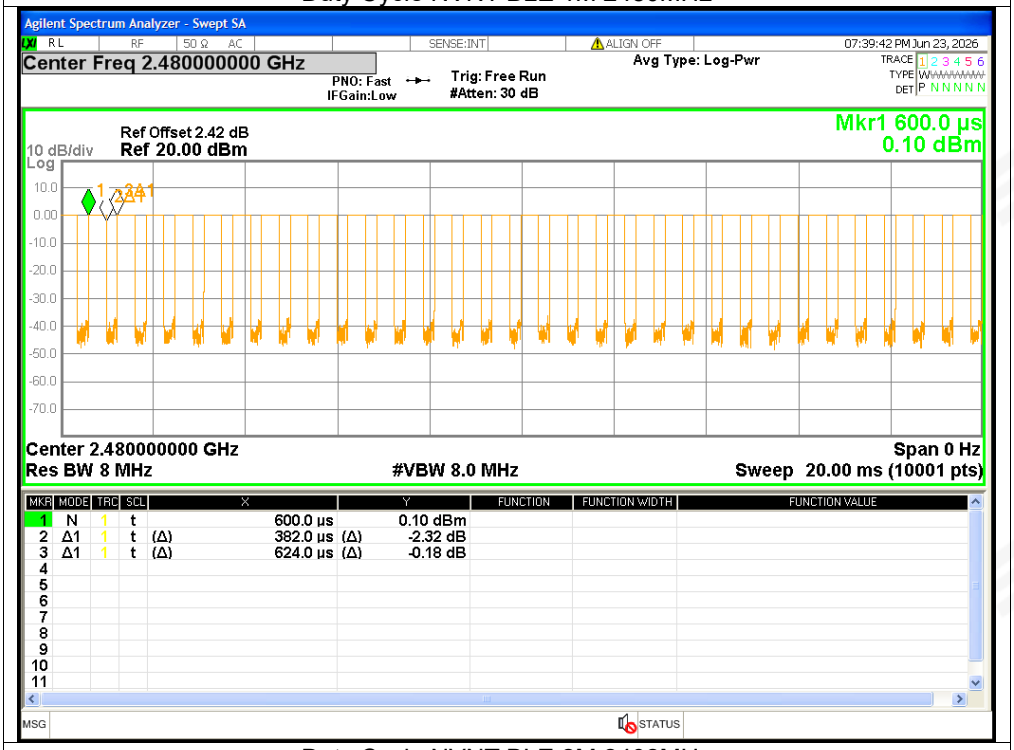
Duty Cycle NVNT BLE 1M 2402MHz



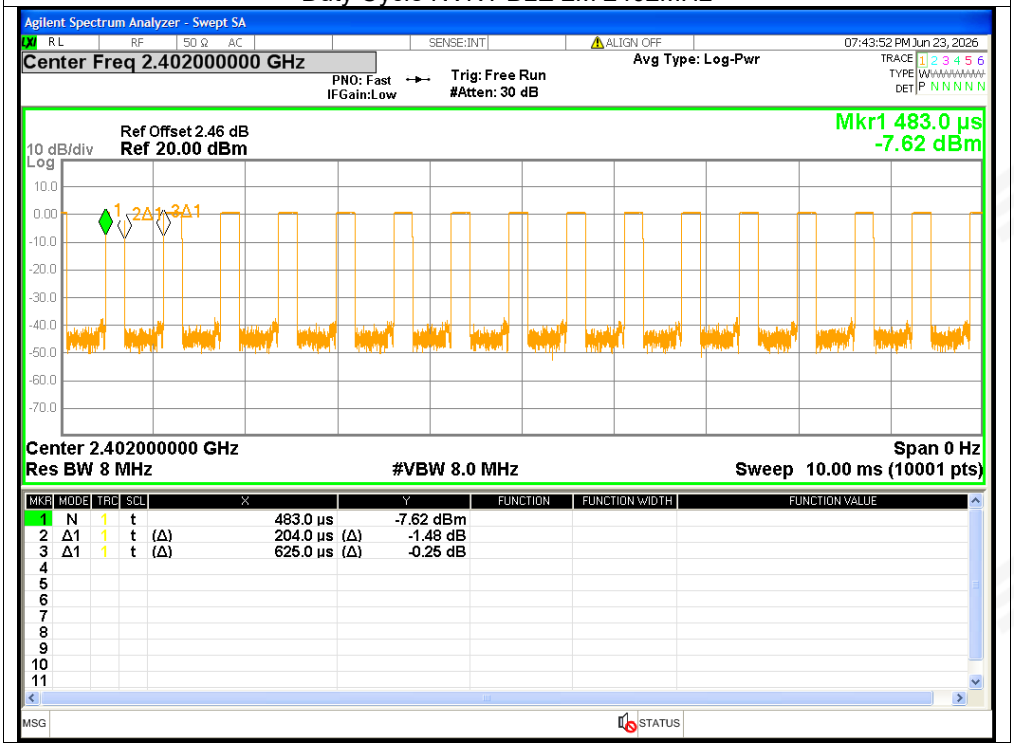
Duty Cycle NVNT BLE 1M 2440MHz



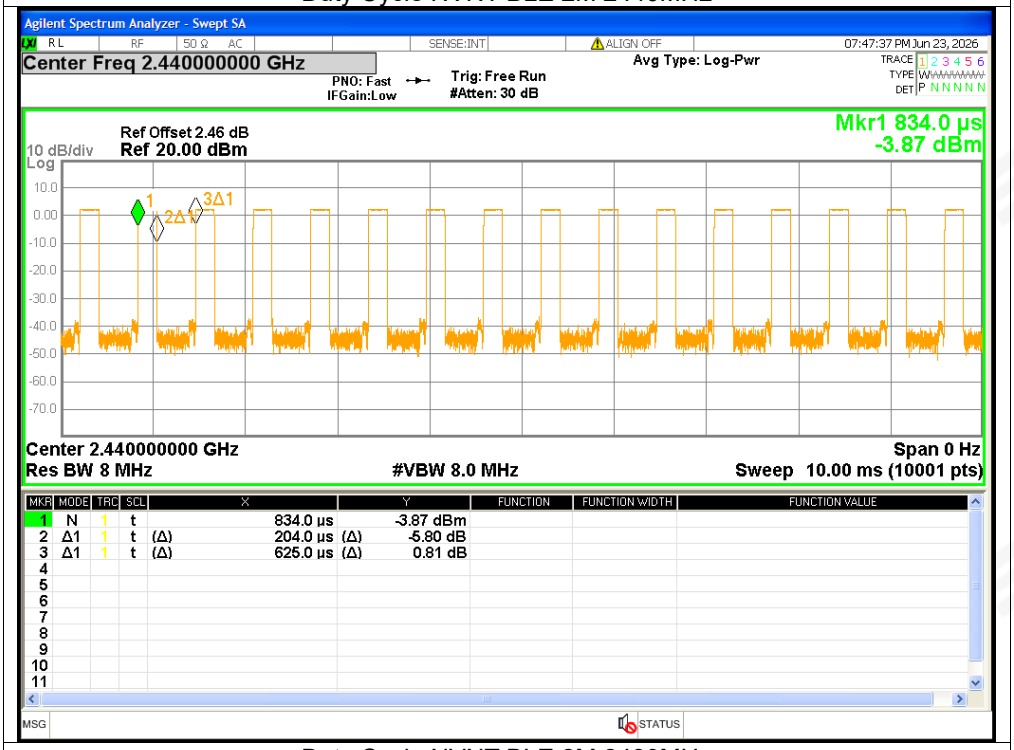
Duty Cycle NVNT BLE 1M 2480MHz



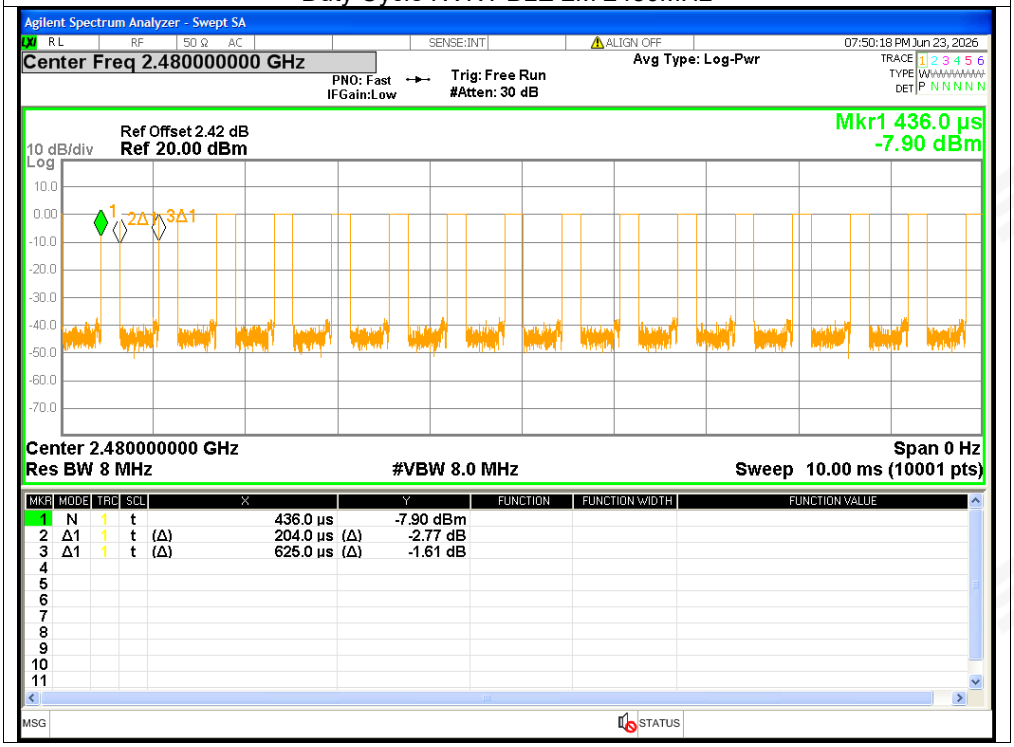
Duty Cycle NVNT BLE 2M 2402MHz



Duty Cycle NVNT BLE 2M 2440MHz



Duty Cycle NVNT BLE 2M 2480MHz

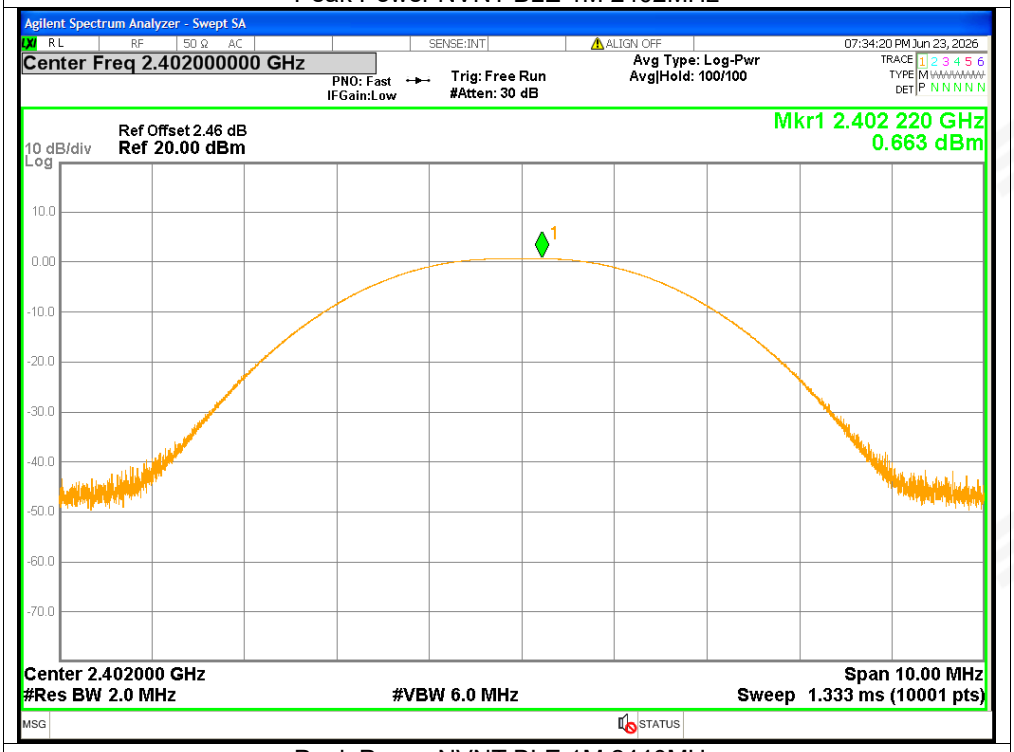


Maximum Peak Conducted Output Power

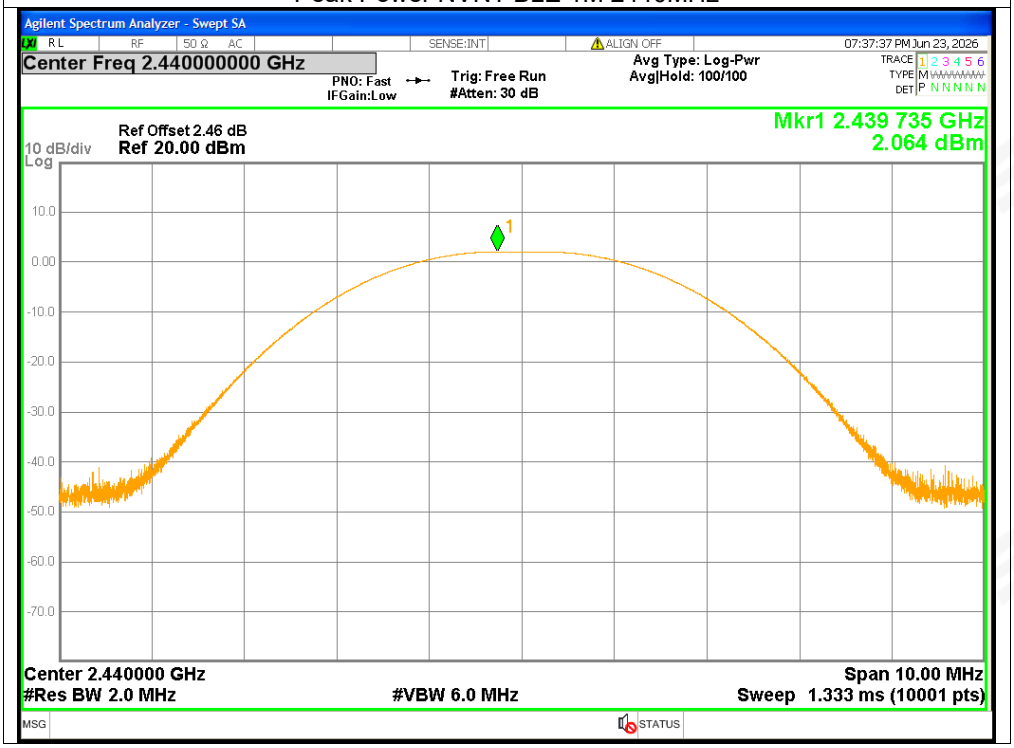
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	0.66	<=30	Pass
NVNT	BLE 1M	2440	2.06	<=30	Pass
NVNT	BLE 1M	2480	0.13	<=30	Pass
NVNT	BLE 2M	2402	0.63	<=30	Pass
NVNT	BLE 2M	2440	2.06	<=30	Pass
NVNT	BLE 2M	2480	0.16	<=30	Pass

Test Graphs

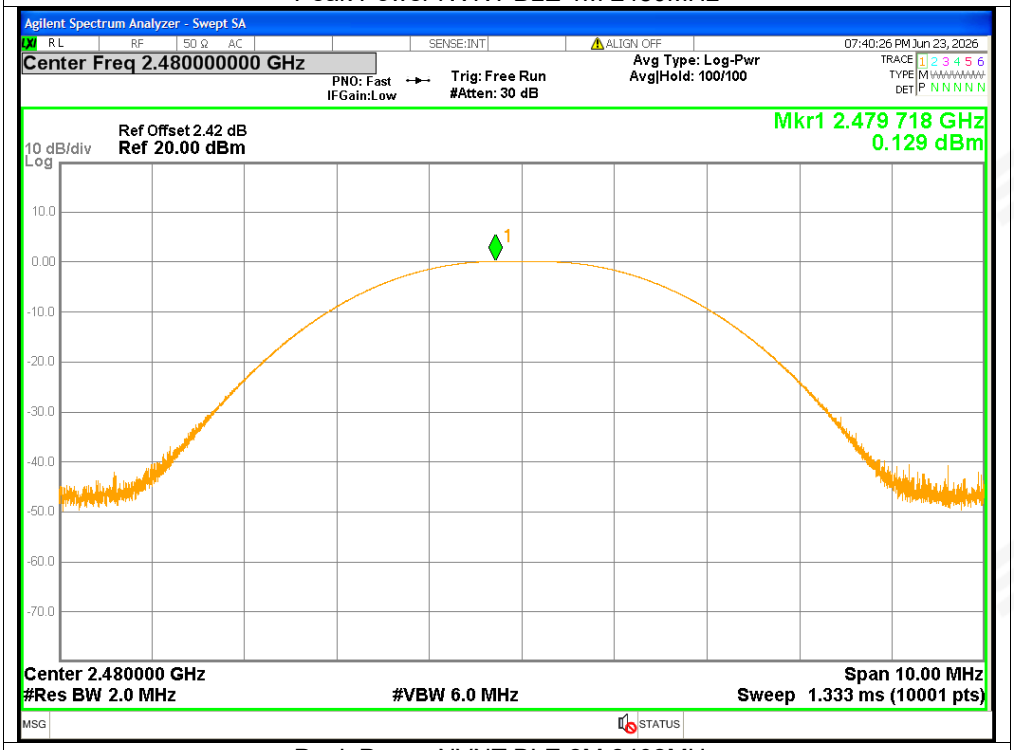
Peak Power NVNT BLE 1M 2402MHz



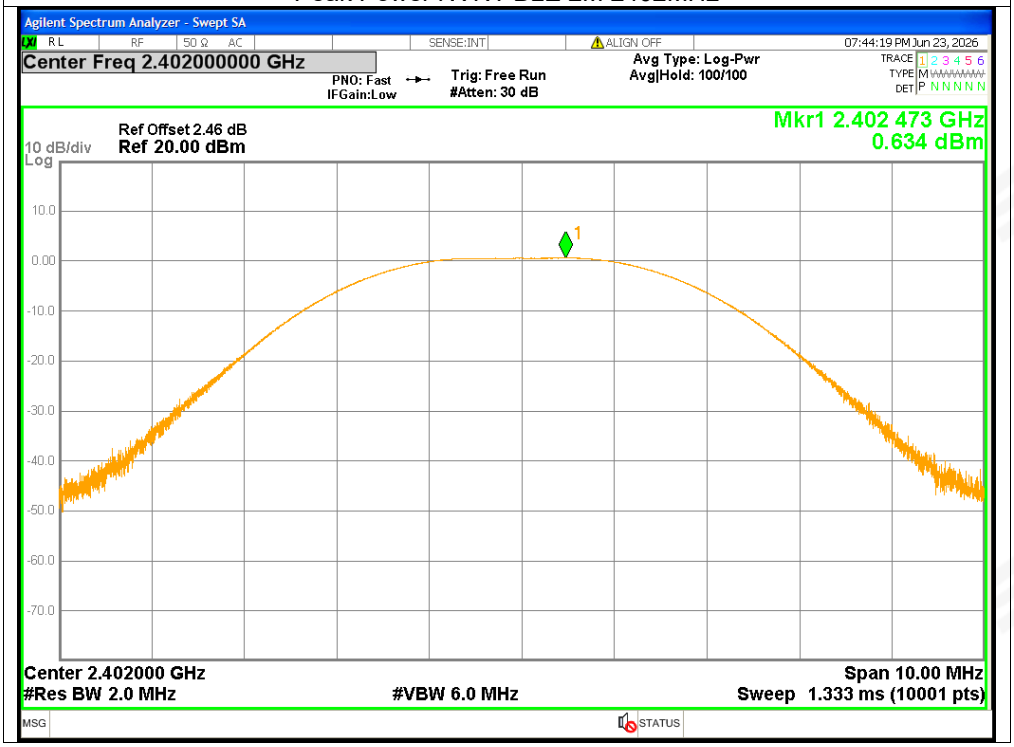
Peak Power NVNT BLE 1M 2440MHz



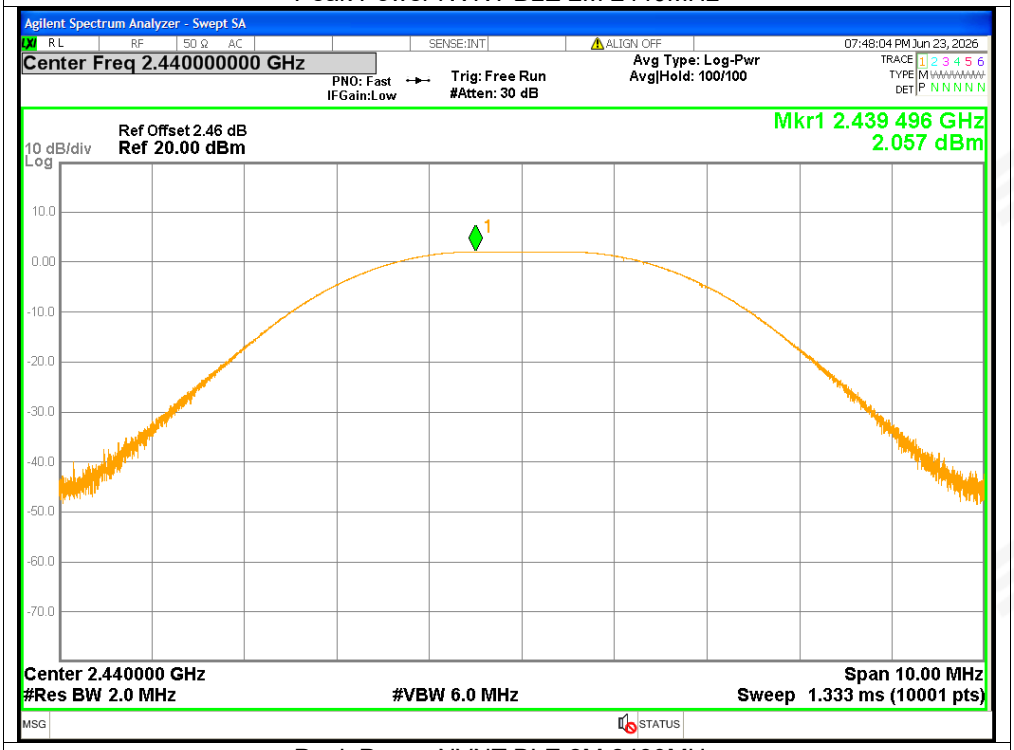
Peak Power NVNT BLE 1M 2480MHz



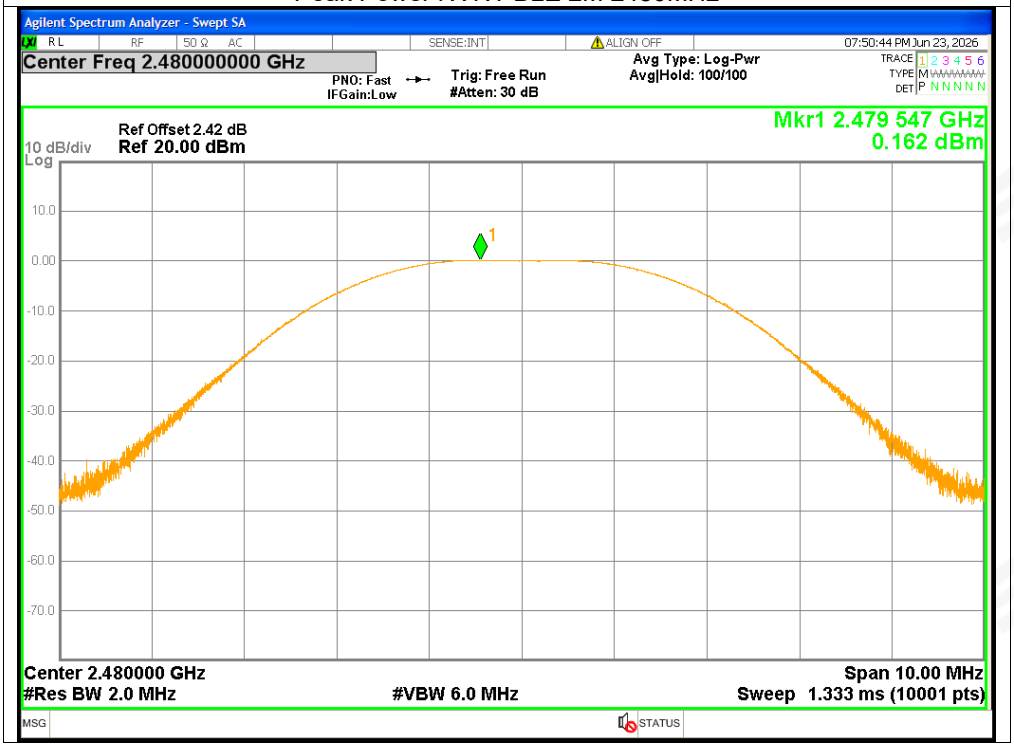
Peak Power NVNT BLE 2M 2402MHz



Peak Power NVNT BLE 2M 2440MHz



Peak Power NVNT BLE 2M 2480MHz

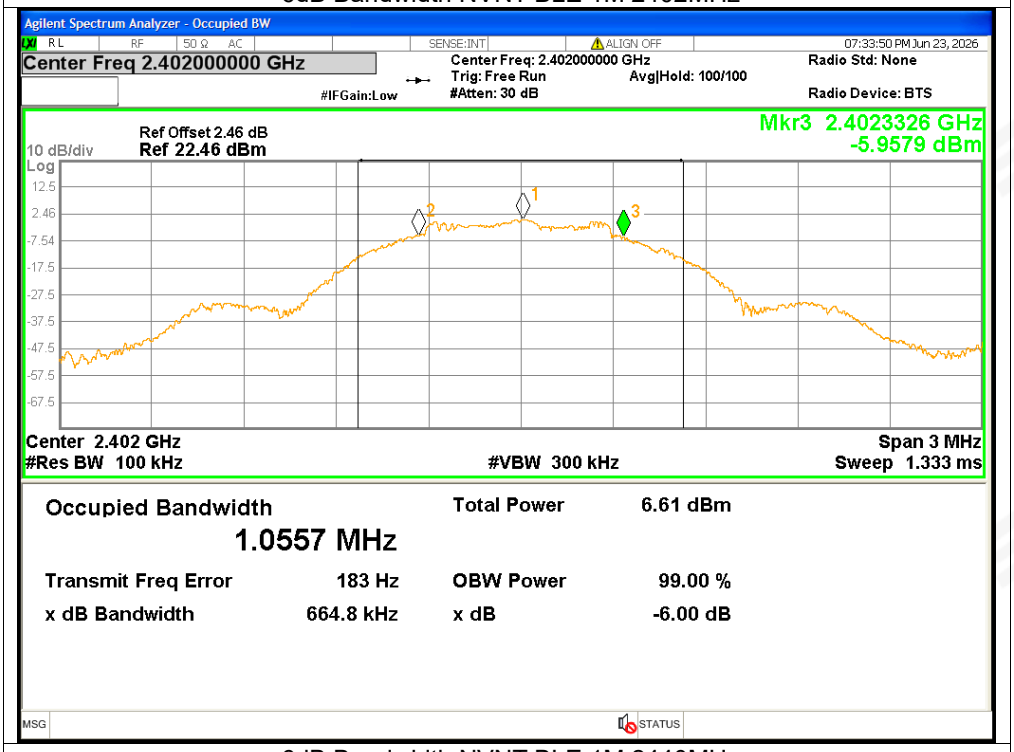


-6dB Bandwidth

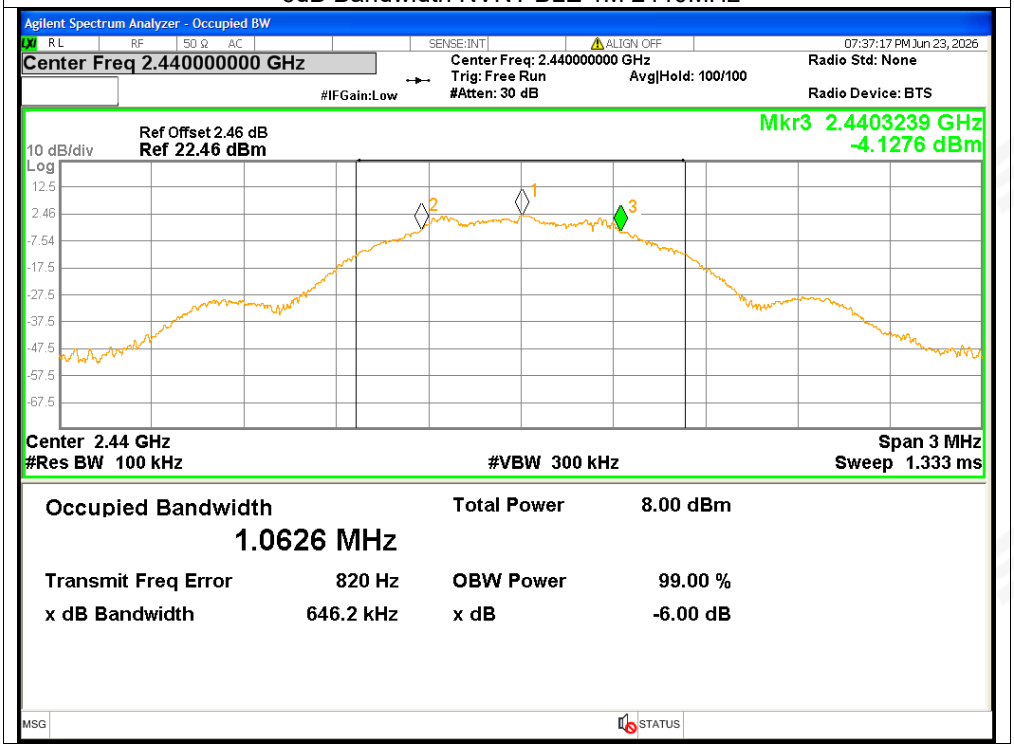
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.6648	>=0.5	Pass
NVNT	BLE 1M	2440	0.6462	>=0.5	Pass
NVNT	BLE 1M	2480	0.6717	>=0.5	Pass
NVNT	BLE 2M	2402	1.123	>=0.5	Pass
NVNT	BLE 2M	2440	1.148	>=0.5	Pass
NVNT	BLE 2M	2480	1.072	>=0.5	Pass

Test Graphs

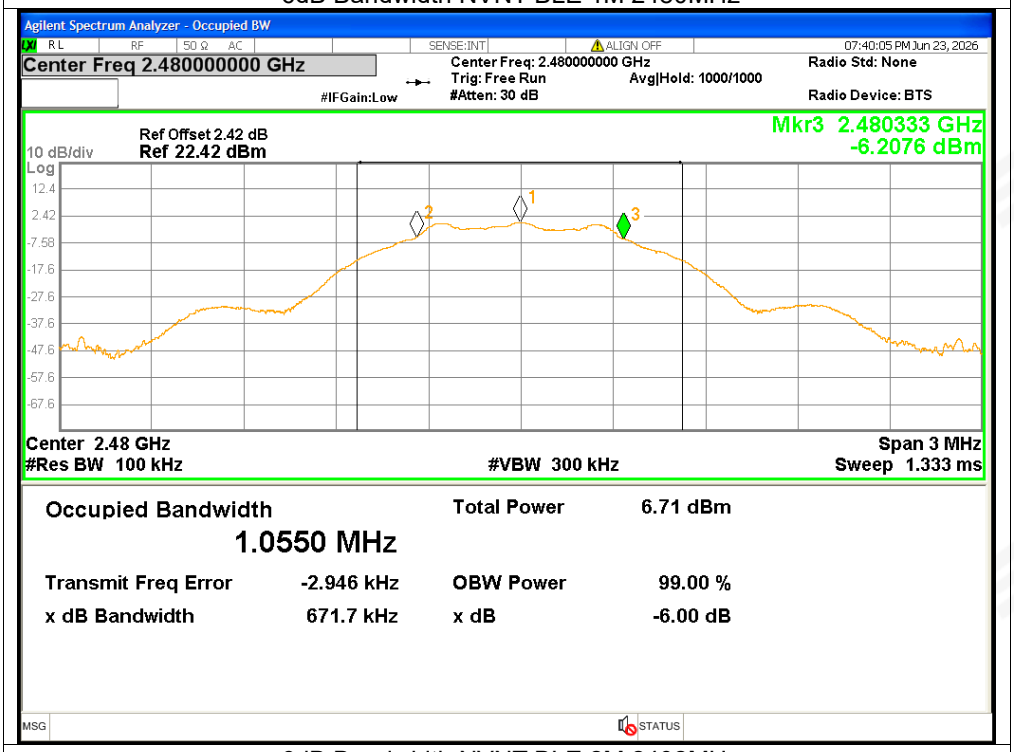
-6dB Bandwidth NVNT BLE 1M 2402MHz



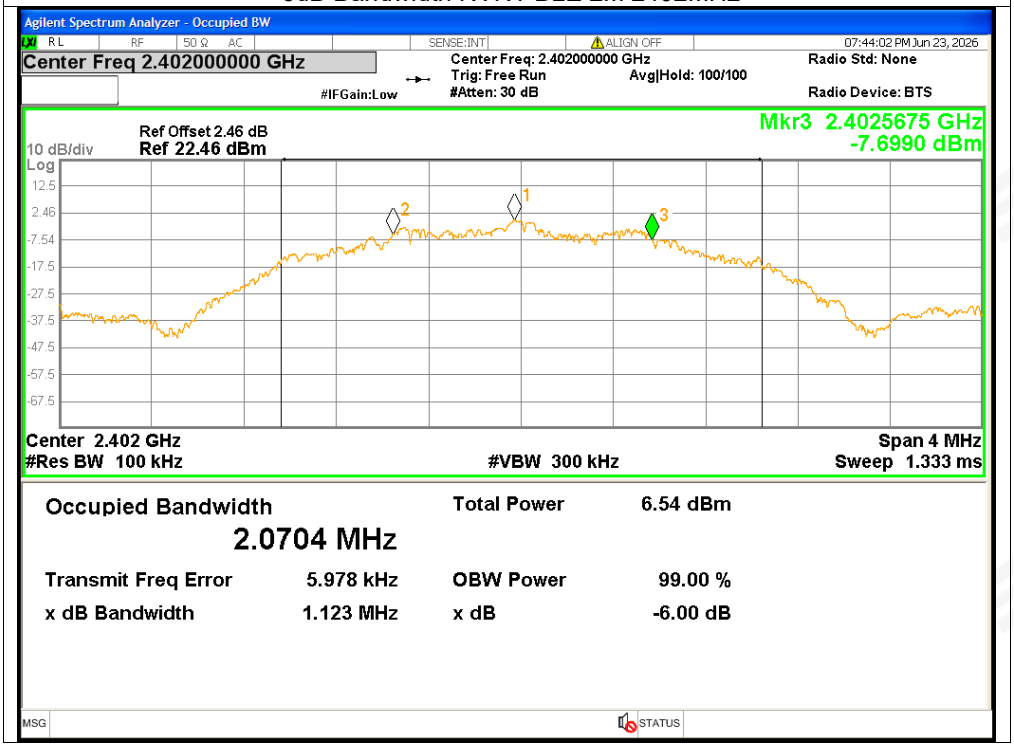
-6dB Bandwidth NVNT BLE 1M 2440MHz



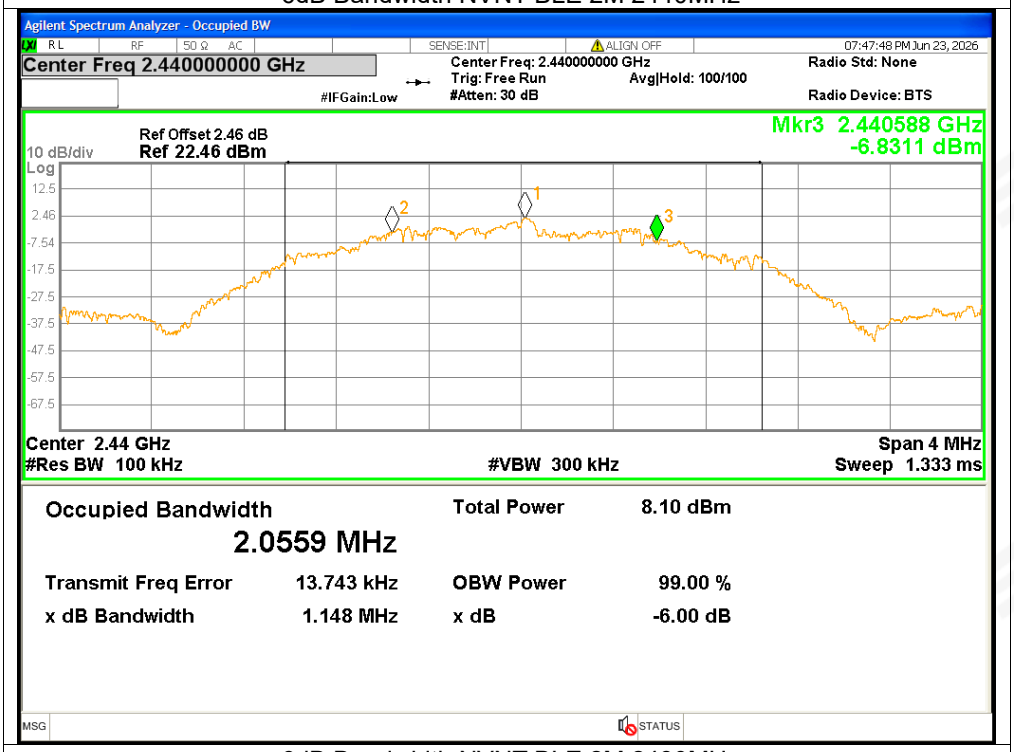
-6dB Bandwidth NVNT BLE 1M 2480MHz



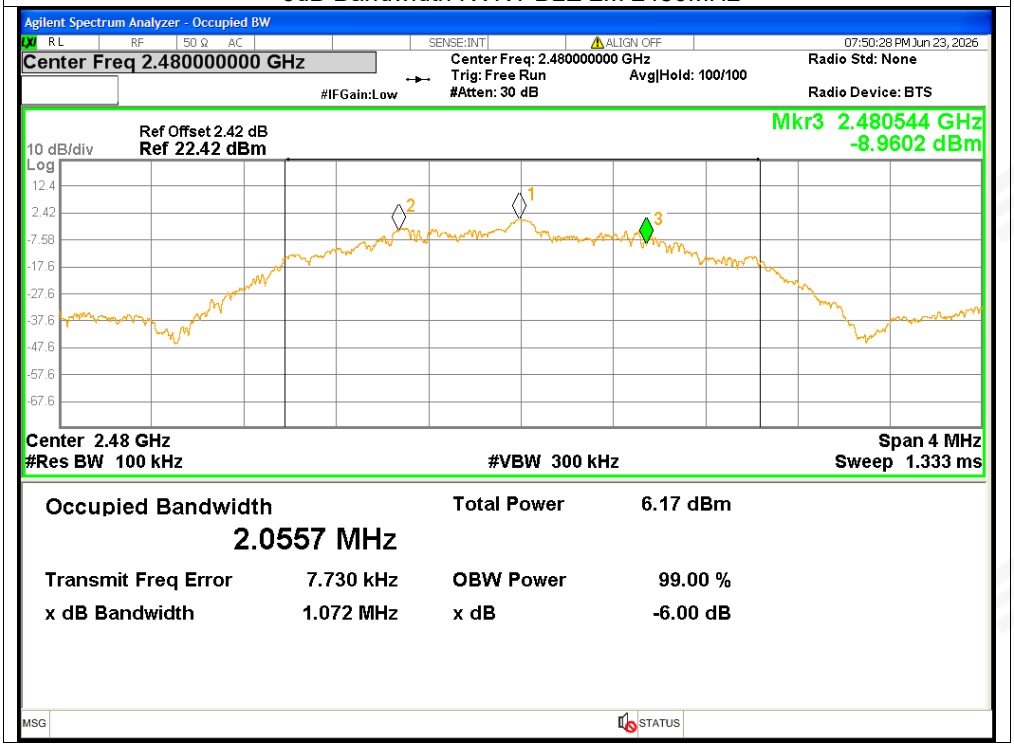
-6dB Bandwidth NVNT BLE 2M 2402MHz



-6dB Bandwidth NVNT BLE 2M 2440MHz



-6dB Bandwidth NVNT BLE 2M 2480MHz

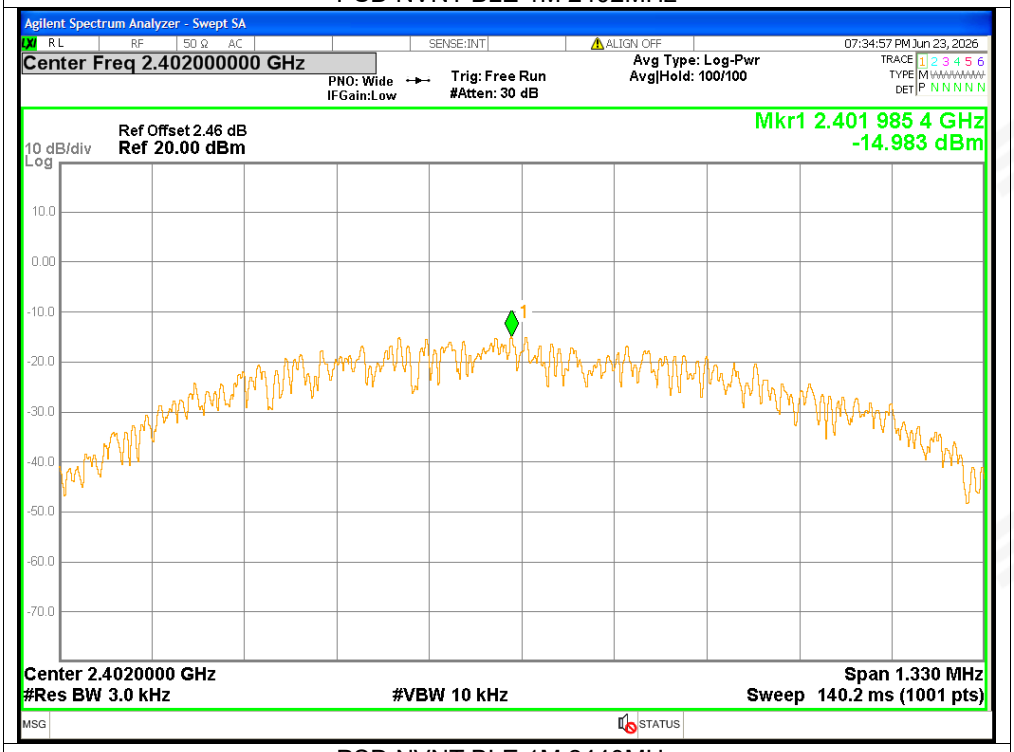


Maximum Power Spectral Density Level

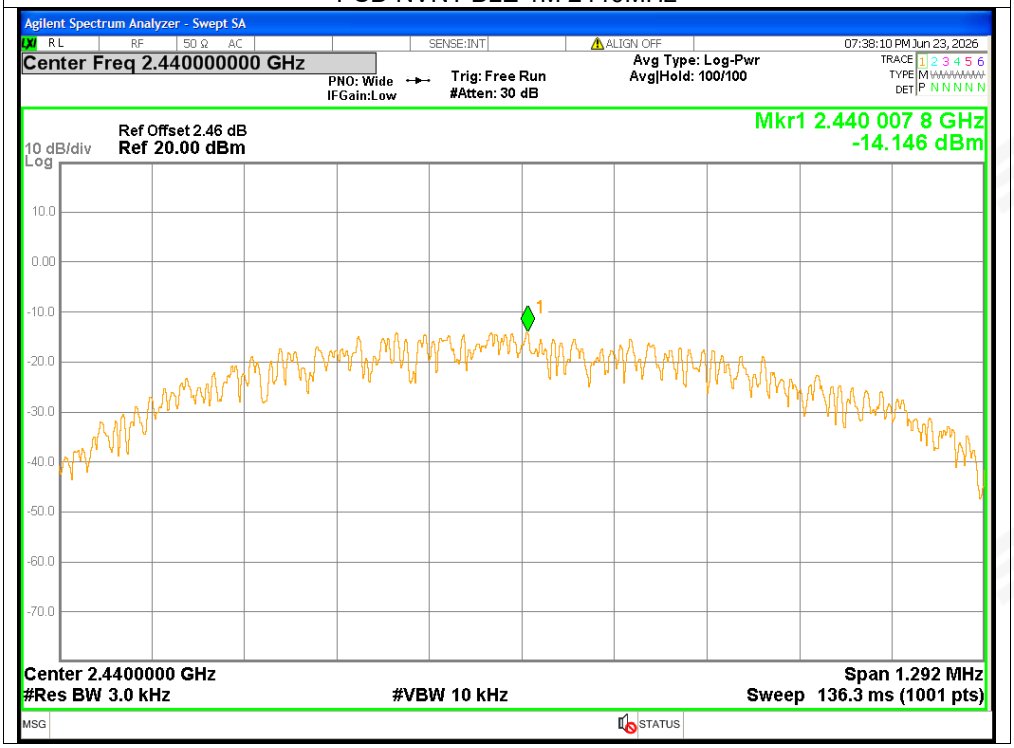
Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-14.98	<=8	Pass
NVNT	BLE 1M	2440	-14.15	<=8	Pass
NVNT	BLE 1M	2480	-15.29	<=8	Pass
NVNT	BLE 2M	2402	-16.27	<=8	Pass
NVNT	BLE 2M	2440	-14.87	<=8	Pass
NVNT	BLE 2M	2480	-16.64	<=8	Pass

Test Graphs

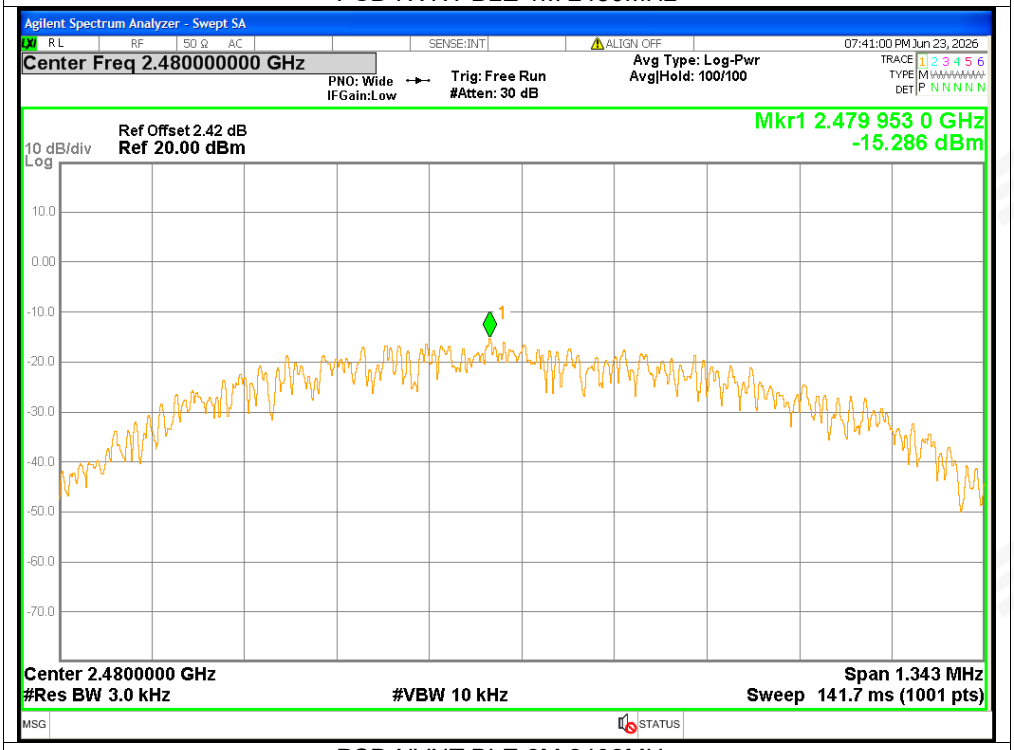
PSD NVNT BLE 1M 2402MHz



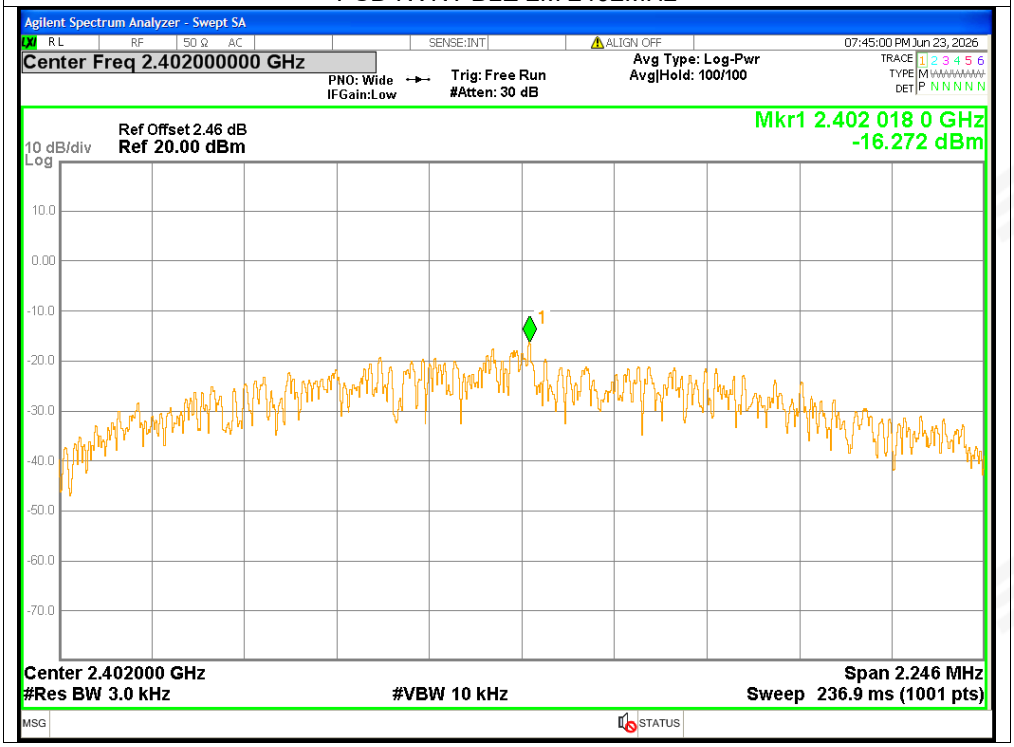
PSD NVNT BLE 1M 2440MHz



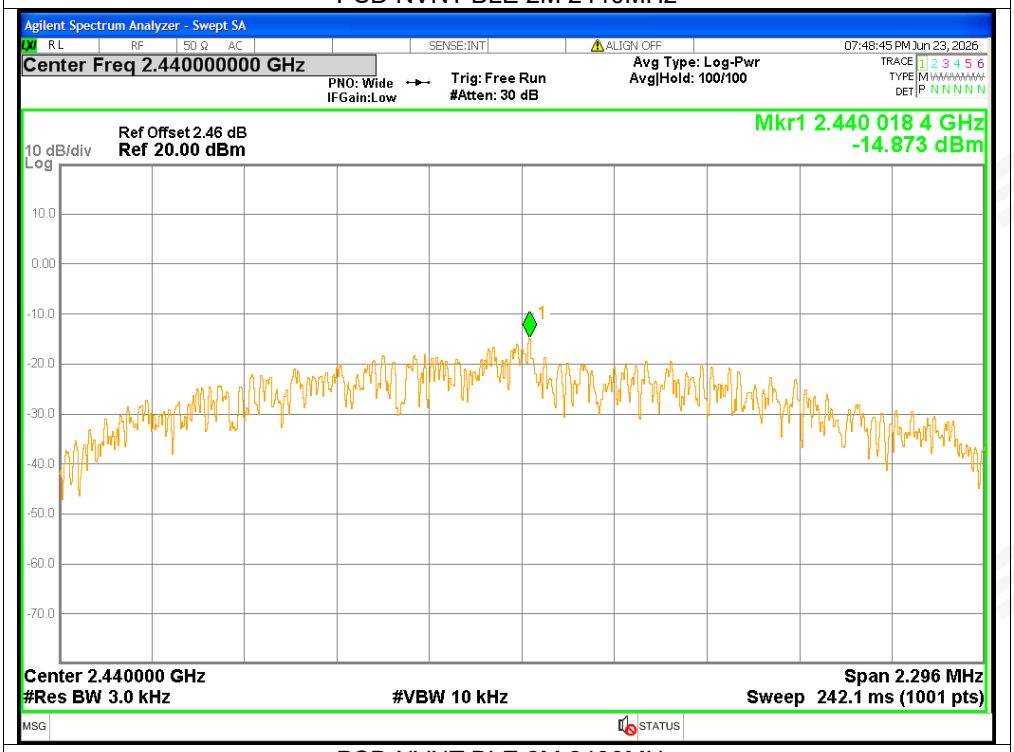
PSD NVNT BLE 1M 2480MHz



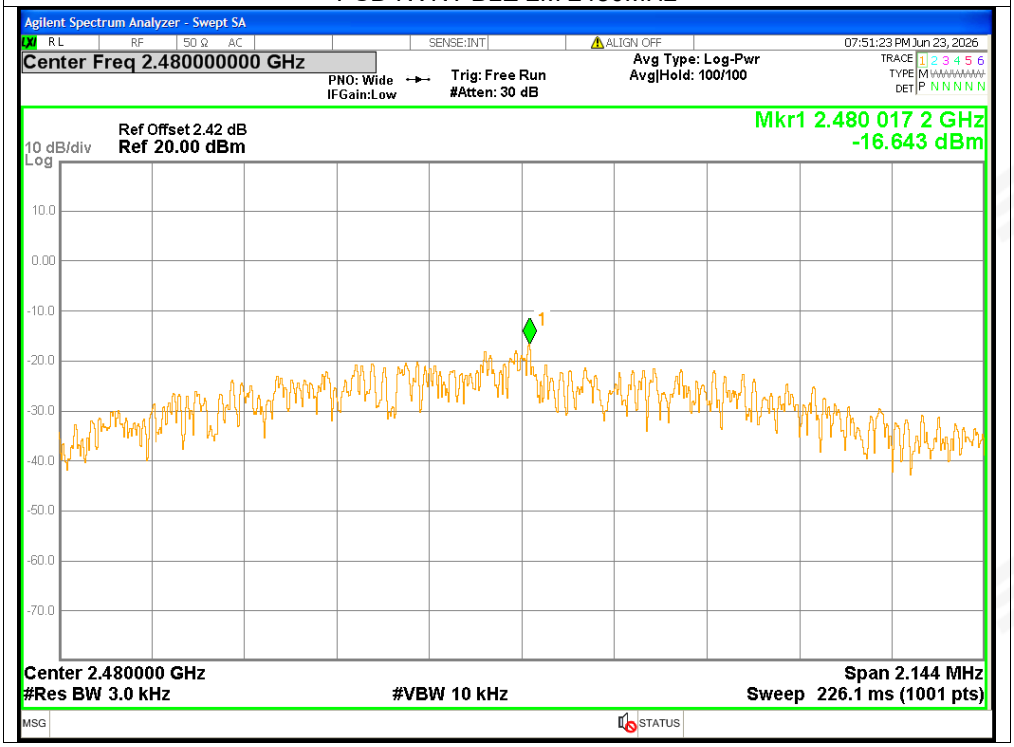
PSD NVNT BLE 2M 2402MHz



PSD NVNT BLE 2M 2440MHz



PSD NVNT BLE 2M 2480MHz

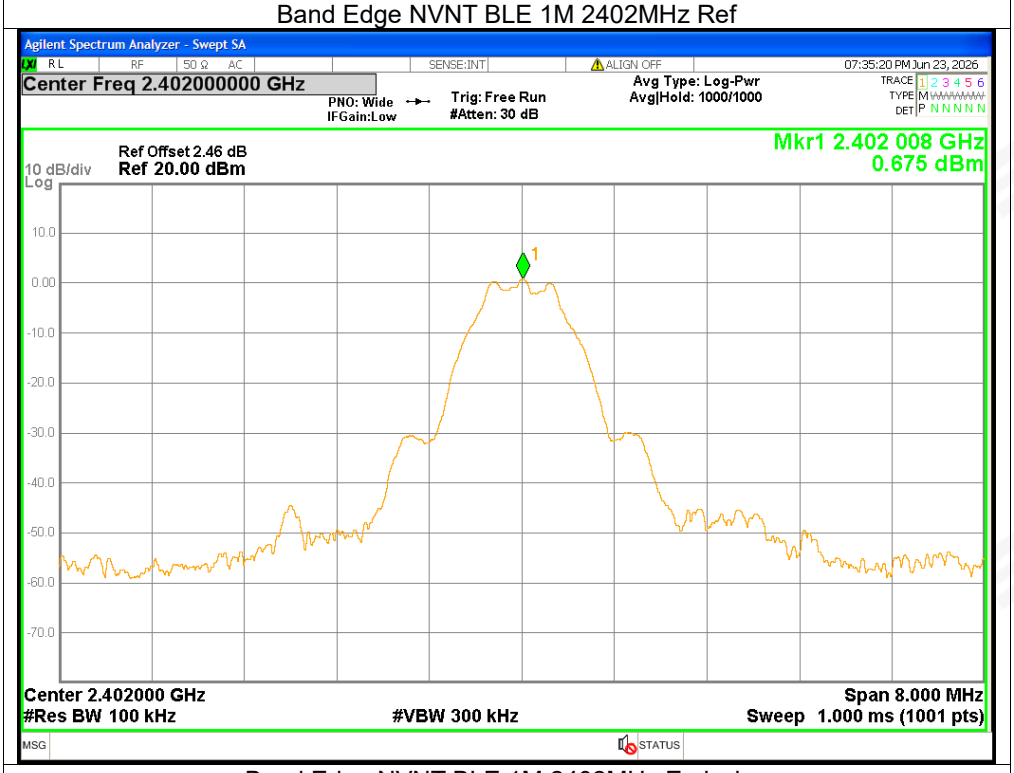


Band Edge

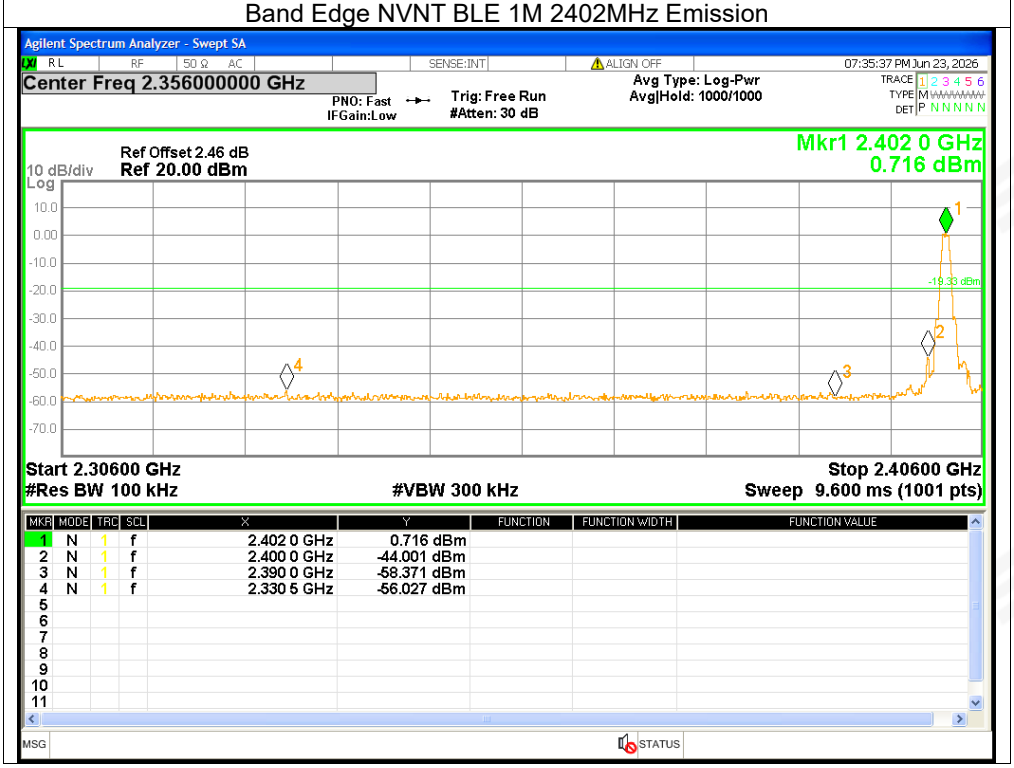
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-56.7	<=-20	Pass
NVNT	BLE 1M	2480	-44.98	<=-20	Pass
NVNT	BLE 2M	2402	-57.74	<=-20	Pass
NVNT	BLE 2M	2480	-45.02	<=-20	Pass

Test Graphs

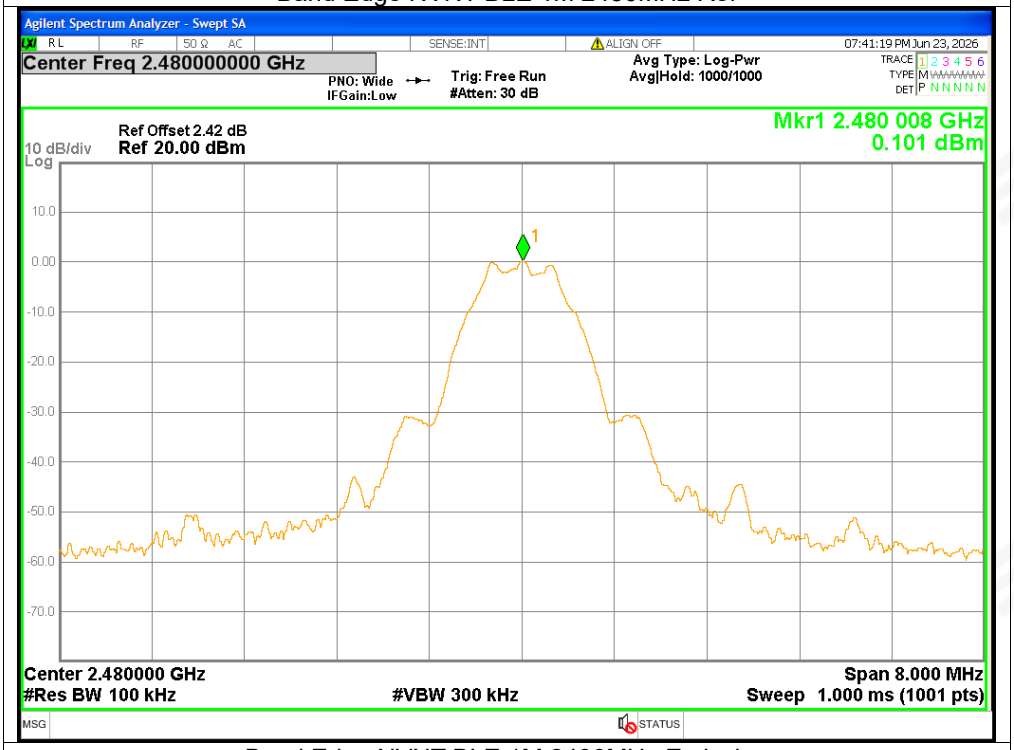
Band Edge NVNT BLE 1M 2402MHz Ref



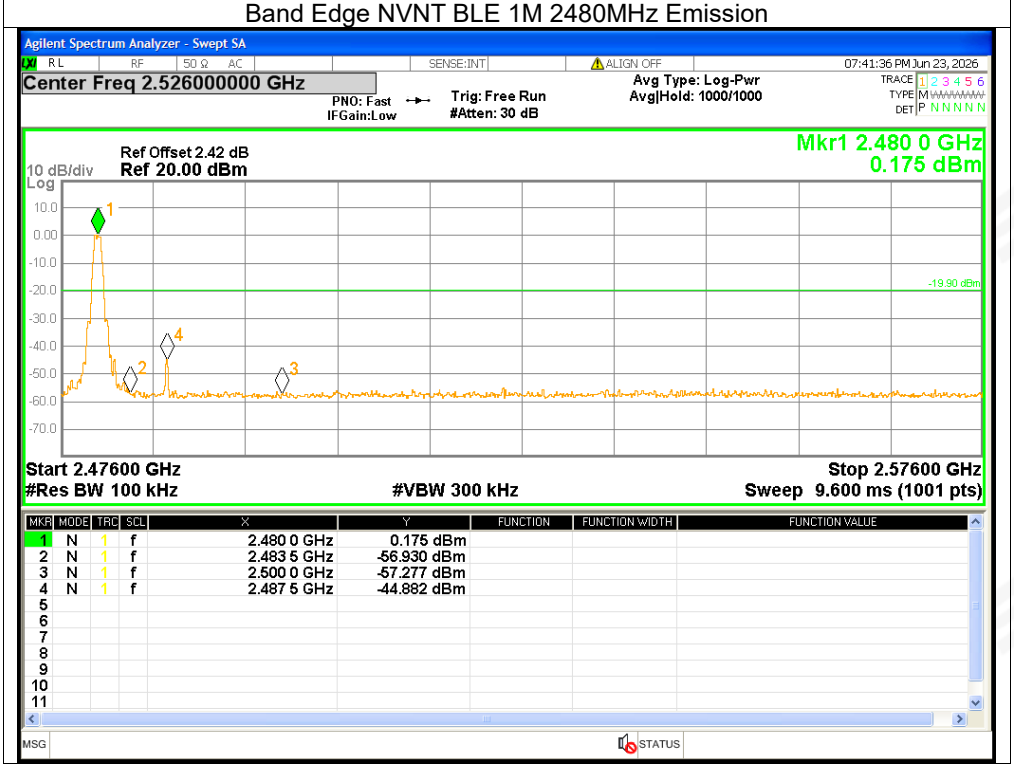
Band Edge NVNT BLE 1M 2402MHz Emission



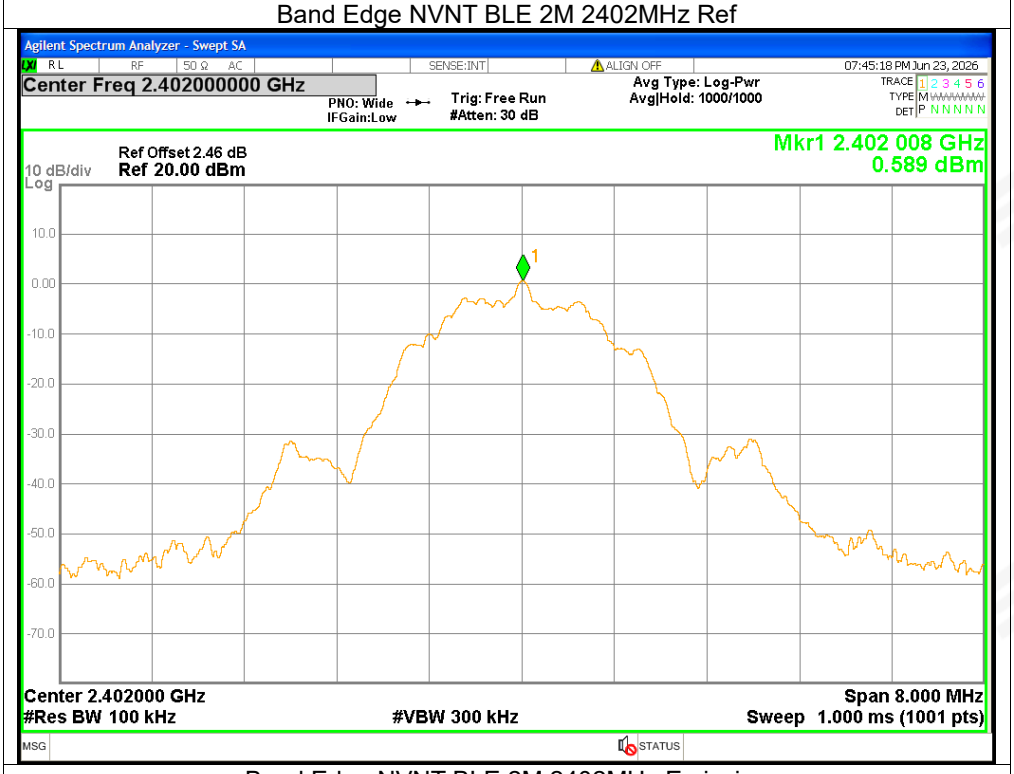
Band Edge NVNT BLE 1M 2480MHz Ref



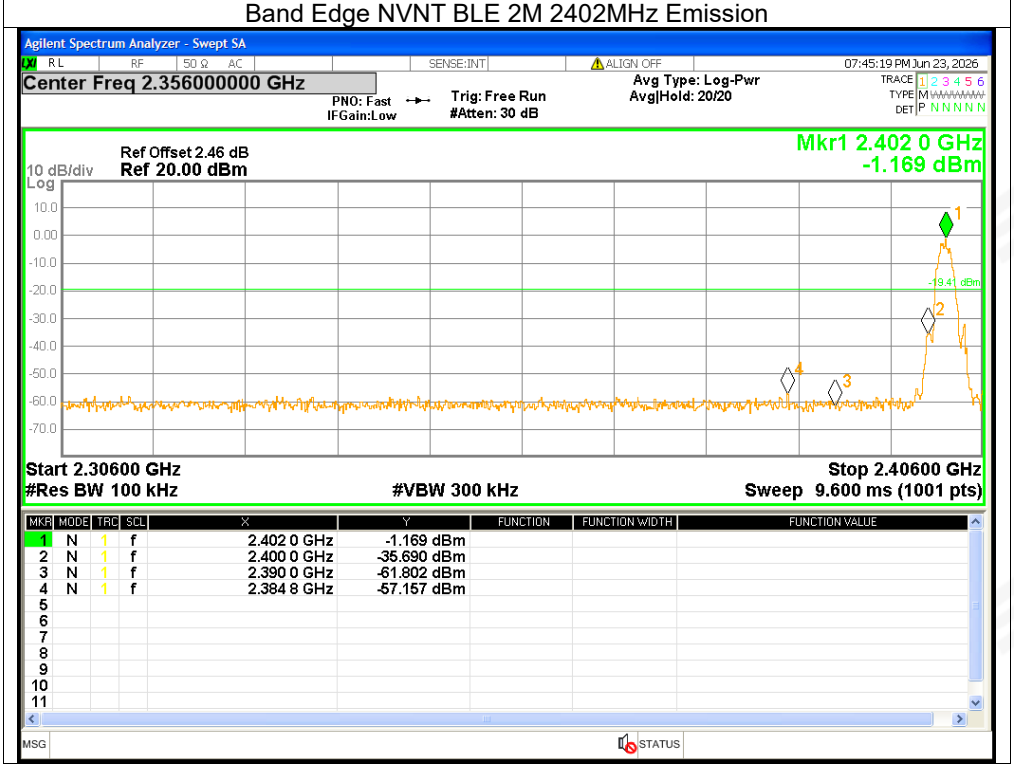
Band Edge NVNT BLE 1M 2480MHz Emission



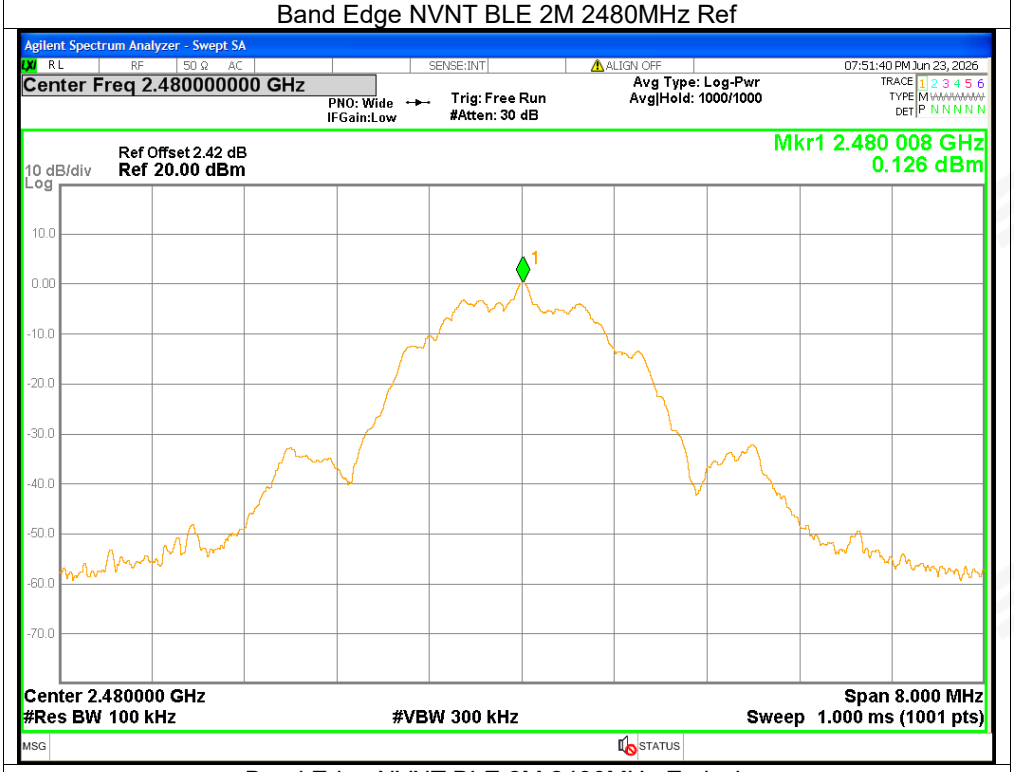
Band Edge NVNT BLE 2M 2402MHz Ref



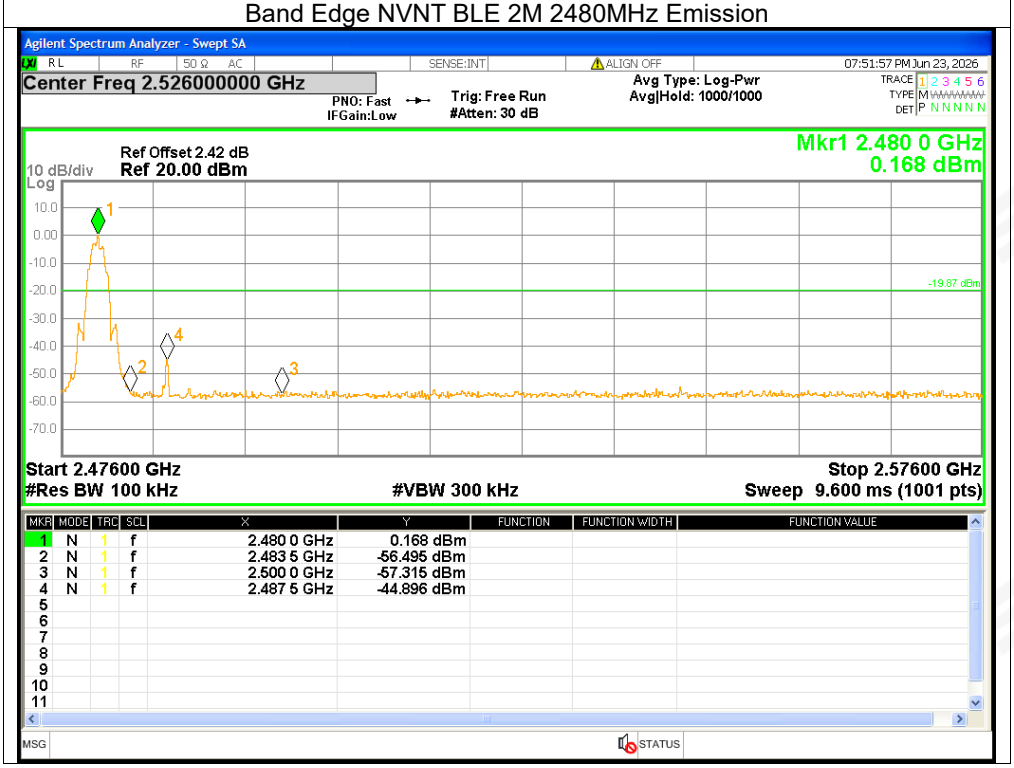
Band Edge NVNT BLE 2M 2402MHz Emission



Band Edge NVNT BLE 2M 2480MHz Ref



Band Edge NVNT BLE 2M 2480MHz Emission

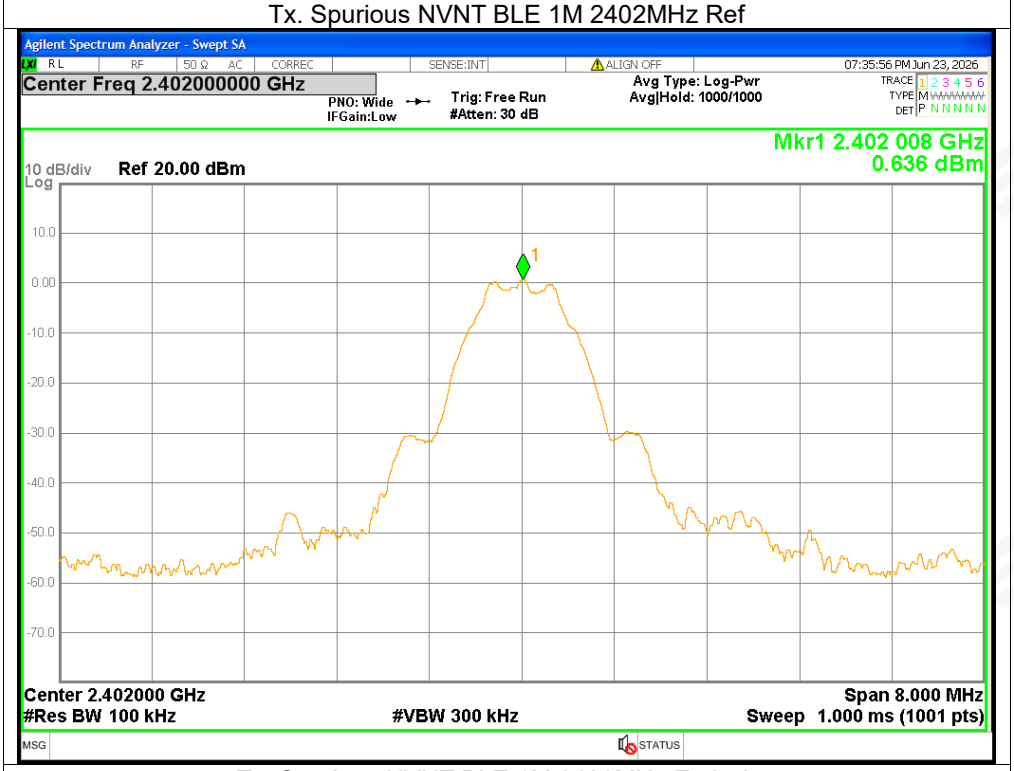


Conducted RF Spurious Emission

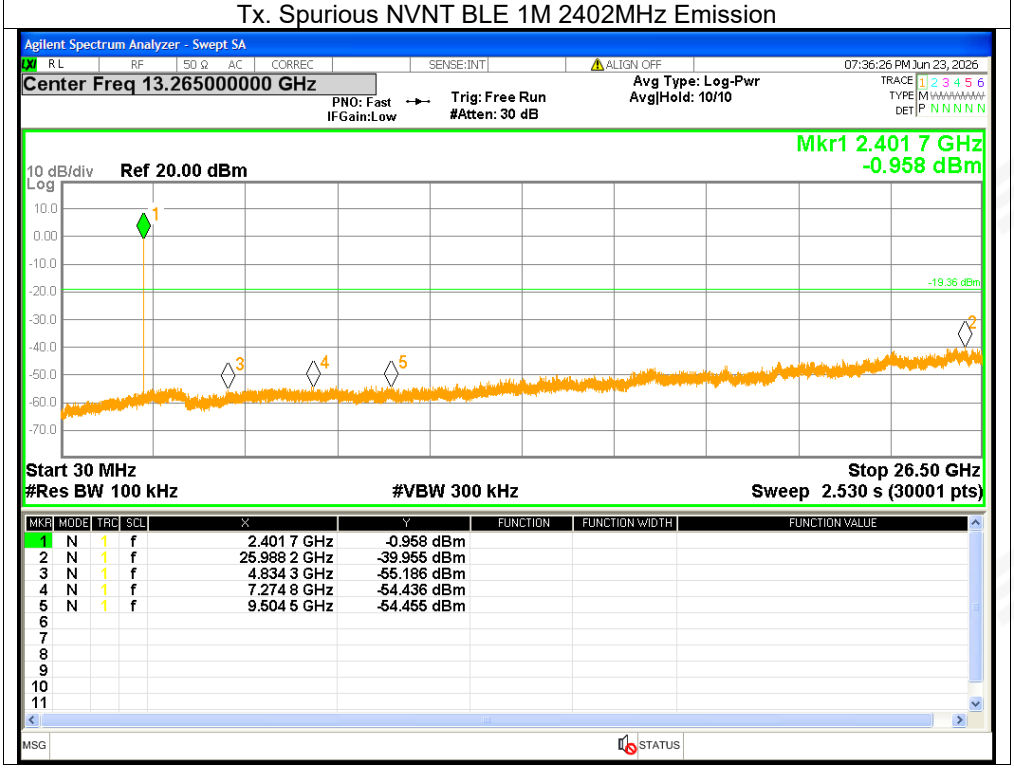
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-40.59	<=-20	Pass
NVNT	BLE 1M	2440	-42.84	<=-20	Pass
NVNT	BLE 1M	2480	-39.53	<=-20	Pass
NVNT	BLE 2M	2402	-40.72	<=-20	Pass
NVNT	BLE 2M	2440	-40.9	<=-20	Pass
NVNT	BLE 2M	2480	-39.7	<=-20	Pass

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ref

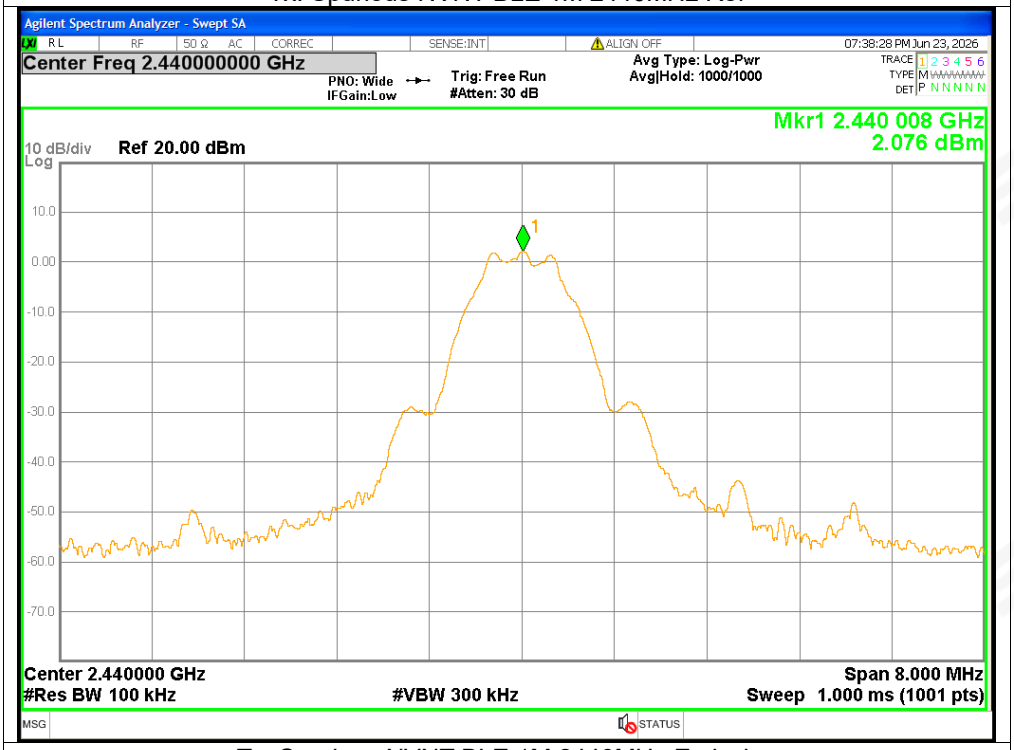


Tx. Spurious NVNT BLE 1M 2402MHz Emission

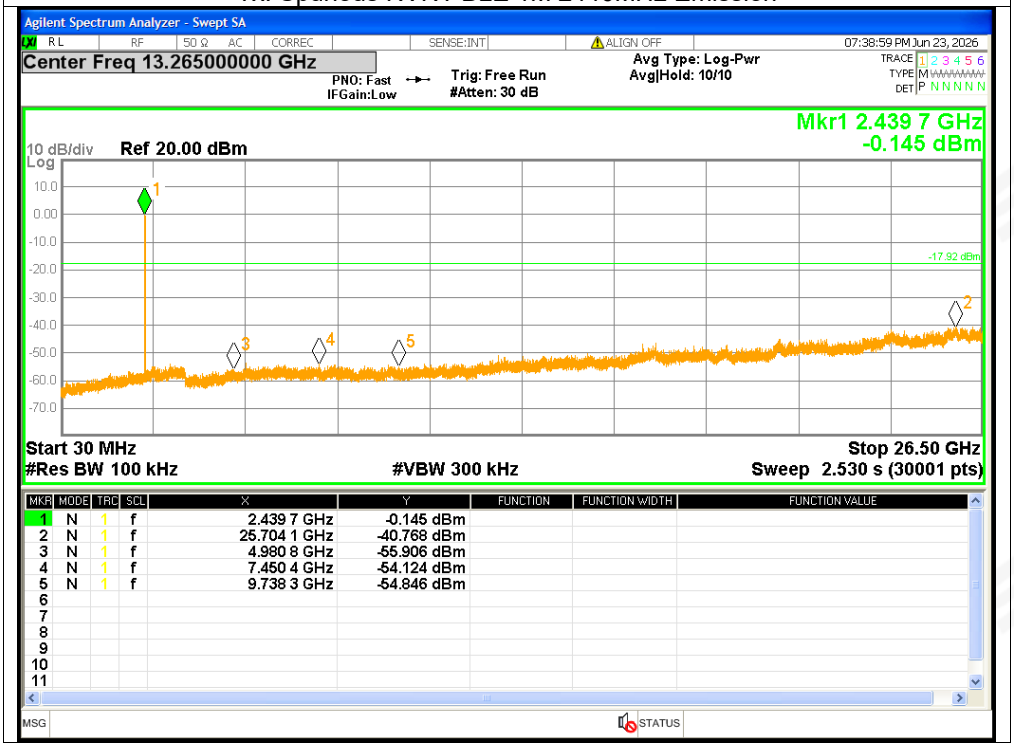


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401 7 GHz	-0.958 dBm			
2	N	1	f	25.988 2 GHz	-39.955 dBm			
3	N	1	f	4.834 3 GHz	-55.186 dBm			
4	N	1	f	7.274 8 GHz	-54.436 dBm			
5	N	1	f	9.504 5 GHz	-54.455 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT BLE 1M 2440MHz Ref

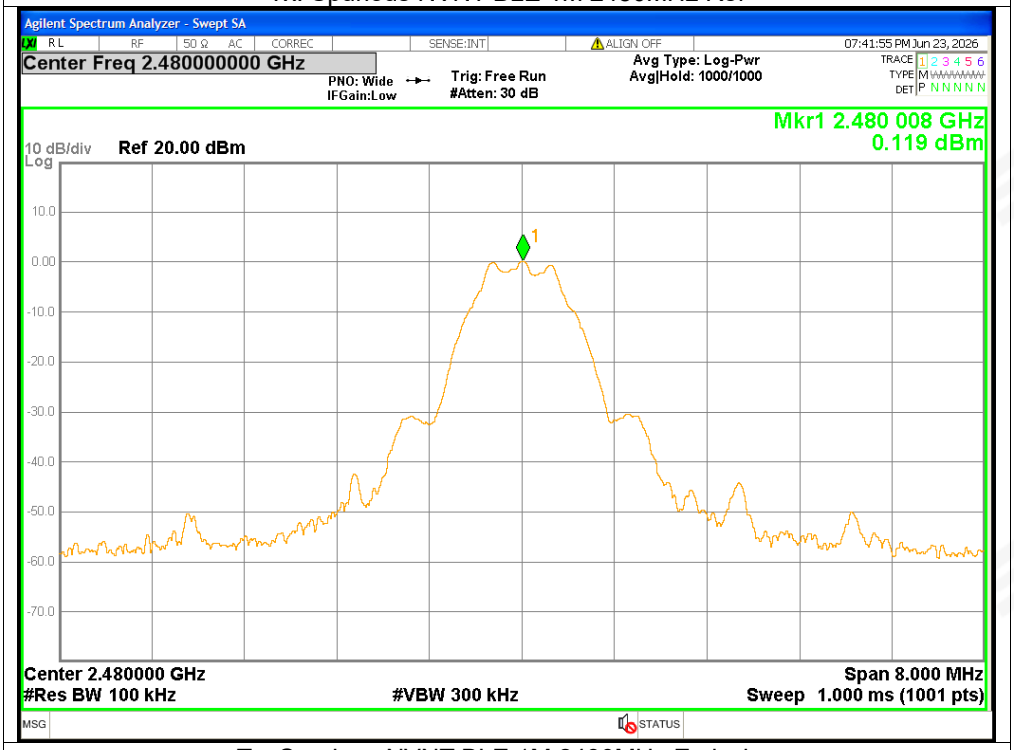


Tx. Spurious NVNT BLE 1M 2440MHz Emission

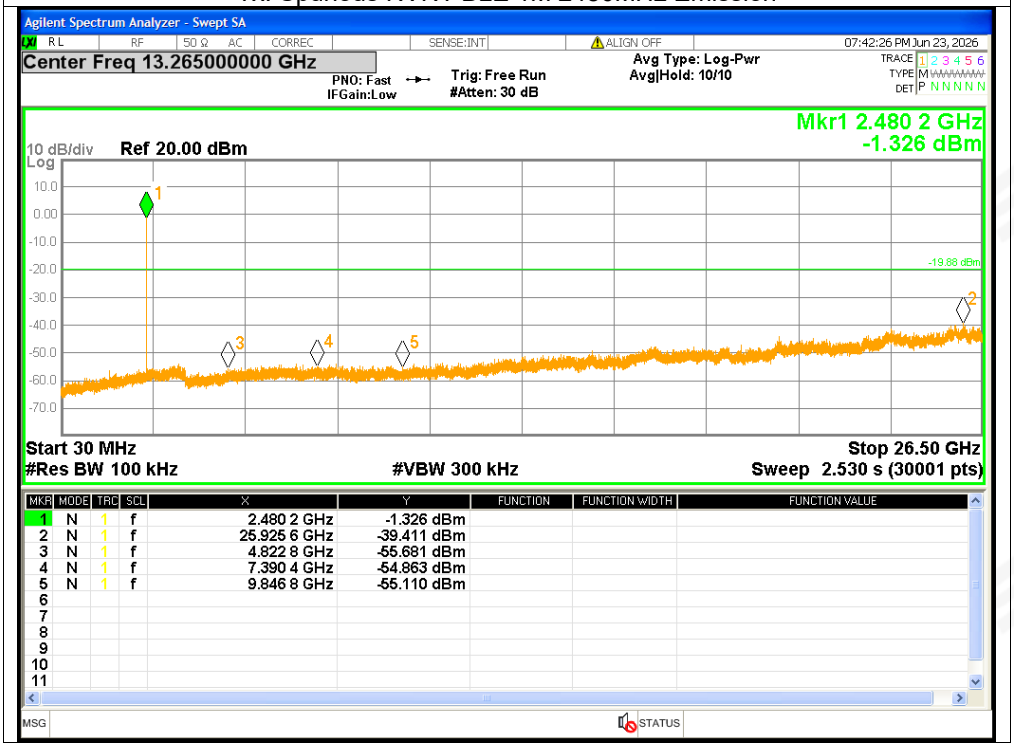


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.439 7 GHz	-0.145 dBm			
2	N	1	f	25.704 1 GHz	-40.768 dBm			
3	N	1	f	4.980 8 GHz	-55.906 dBm			
4	N	1	f	7.450 4 GHz	-54.124 dBm			
5	N	1	f	9.738 3 GHz	-54.846 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT BLE 1M 2480MHz Ref

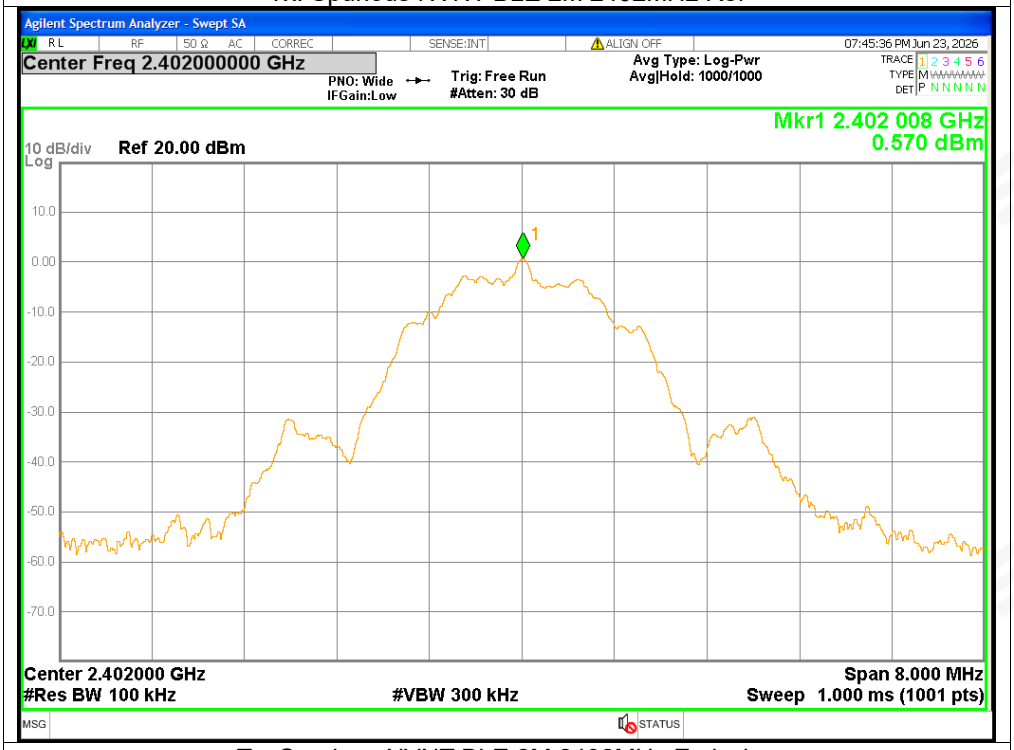


Tx. Spurious NVNT BLE 1M 2480MHz Emission

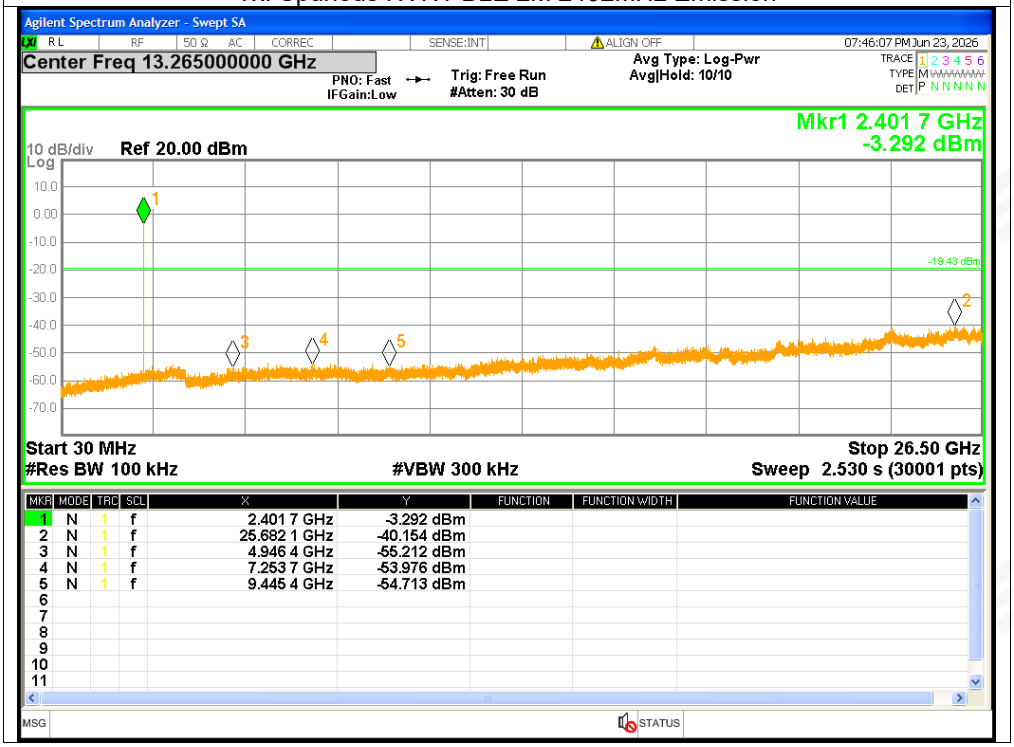


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.480 2 GHz	-1.326 dBm			
2	N	1	f	25.925 6 GHz	-39.411 dBm			
3	N	1	f	4.822 8 GHz	-55.681 dBm			
4	N	1	f	7.390 4 GHz	-54.863 dBm			
5	N	1	f	9.846 8 GHz	-55.110 dBm			
6								
7								
8								
9								
10								
11								

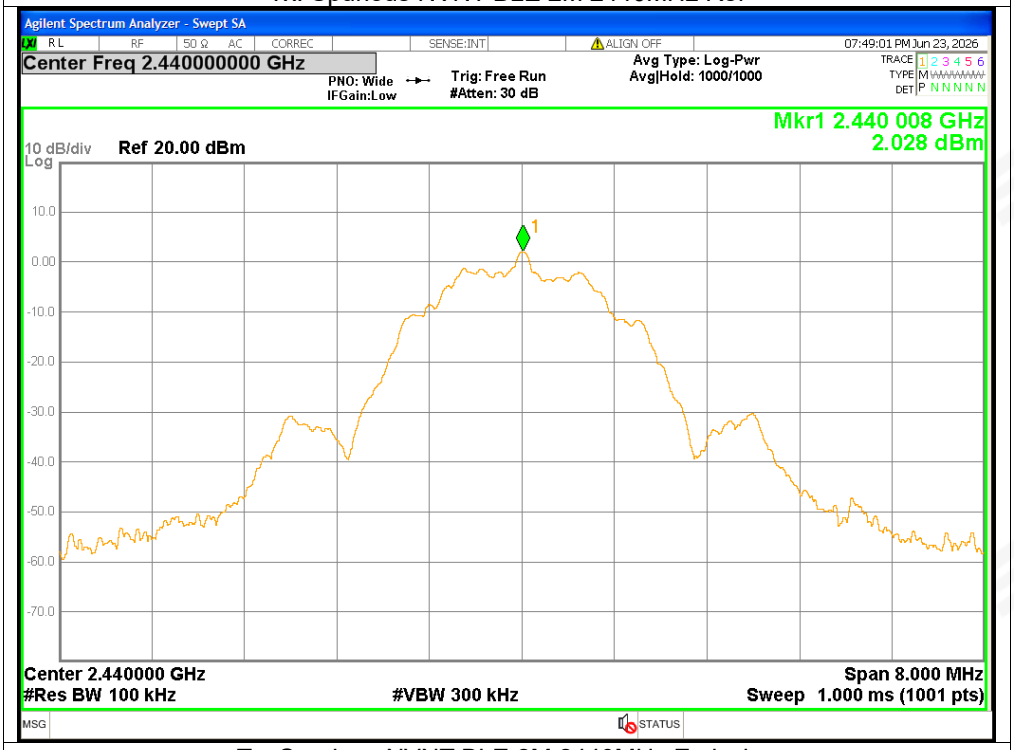
Tx. Spurious NVNT BLE 2M 2402MHz Ref



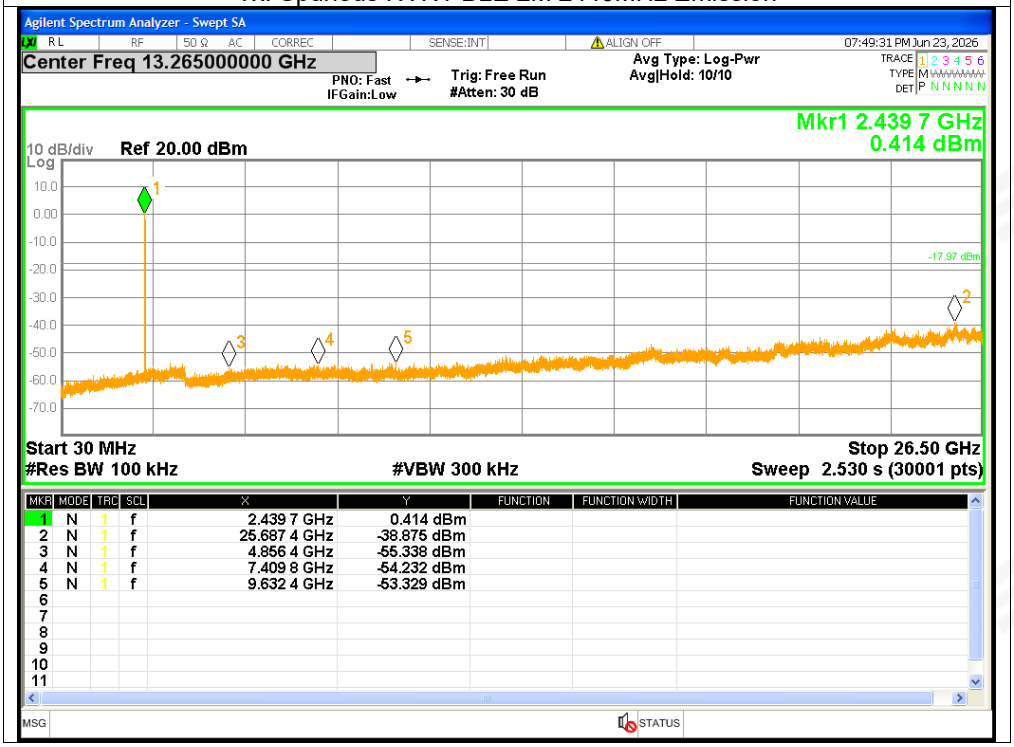
Tx. Spurious NVNT BLE 2M 2402MHz Emission



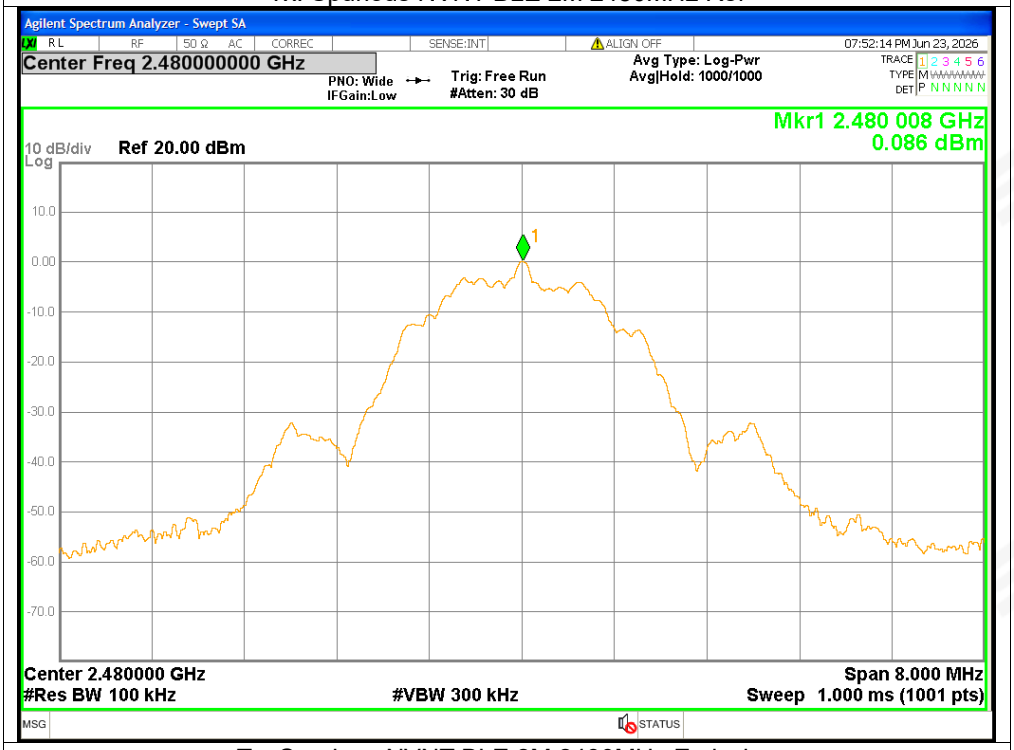
Tx. Spurious NVNT BLE 2M 2440MHz Ref



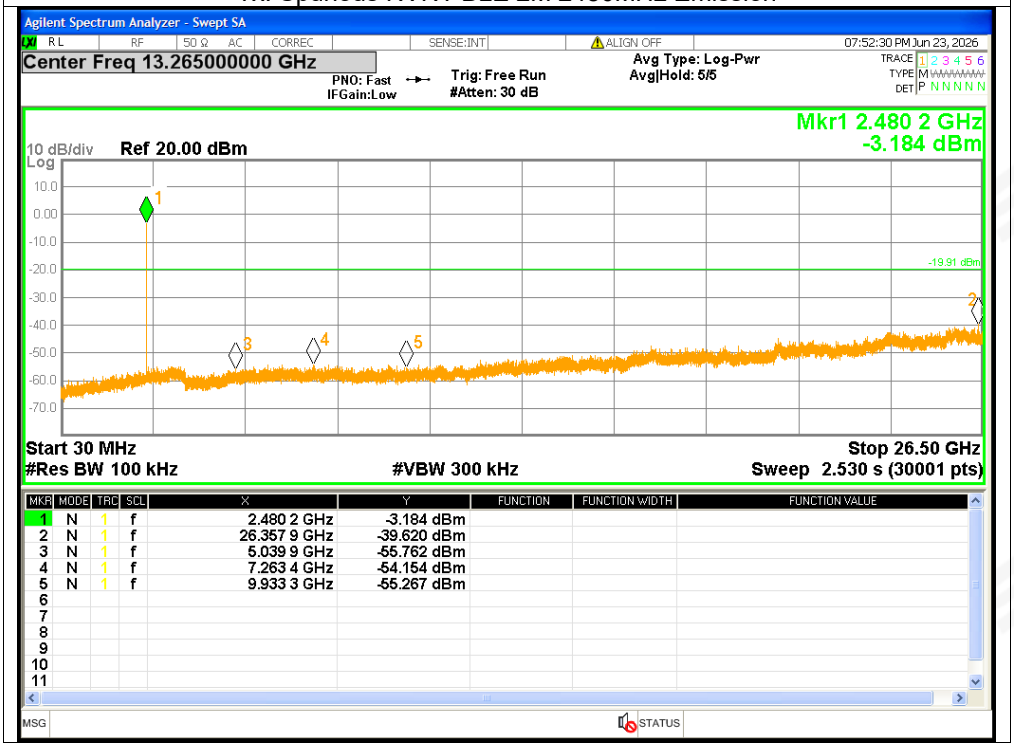
Tx. Spurious NVNT BLE 2M 2440MHz Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ref



Tx. Spurious NVNT BLE 2M 2480MHz Emission



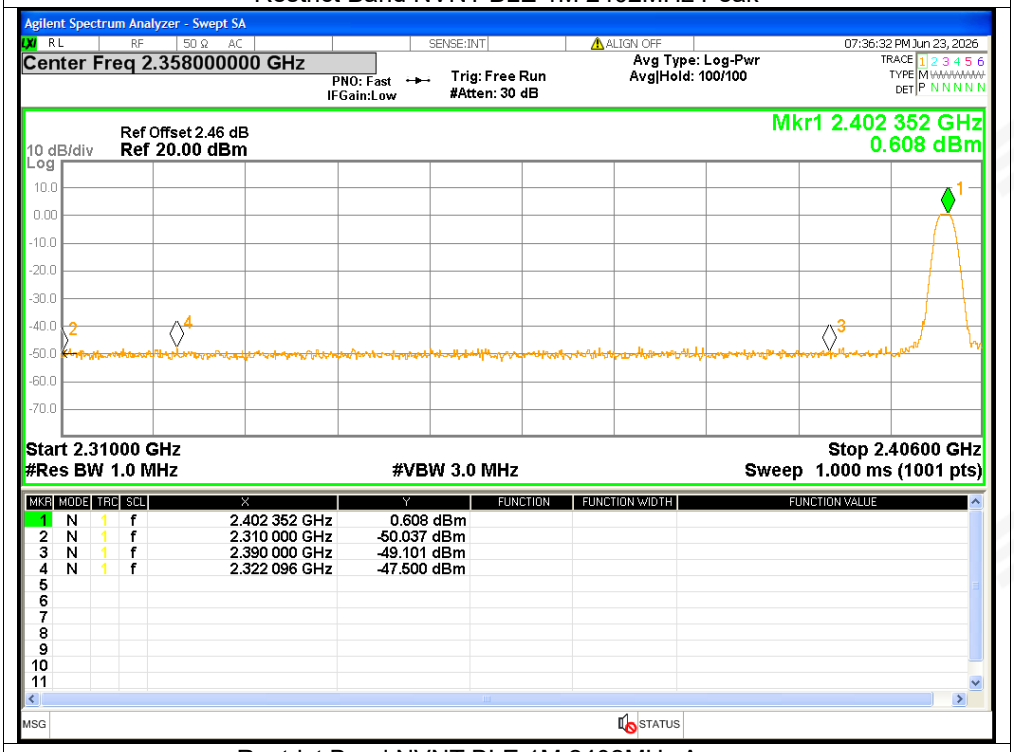
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.480 2 GHz	-3.184 dBm			
2	N	1	f	26.357 9 GHz	-39.620 dBm			
3	N	1	f	5.039 9 GHz	-55.762 dBm			
4	N	1	f	7.263 4 GHz	-54.154 dBm			
5	N	1	f	9.933 3 GHz	-55.267 dBm			
6								
7								
8								
9								
10								
11								

Restrict Band

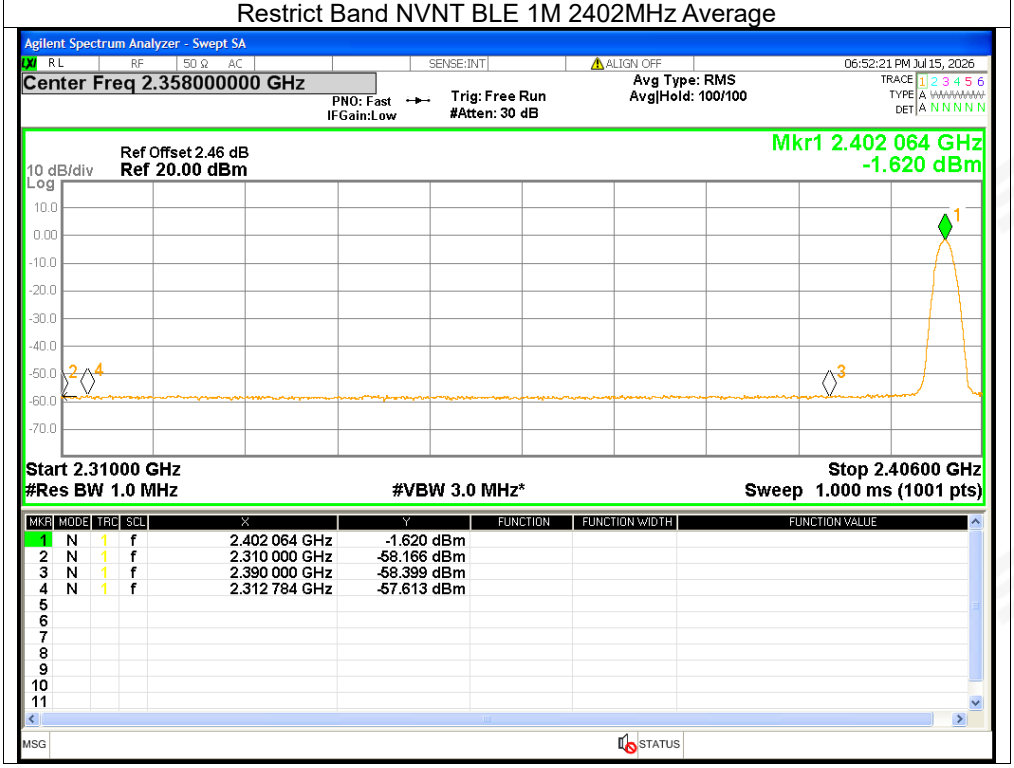
Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	2310	-50.03	2	47.23	Peak	<=74	Pass
NVNT	BLE 1M	2402	2310	-58.16	2	39.1	Average	<=54	Pass
NVNT	BLE 1M	2402	2322.096	-47.49	2	49.77	Peak	<=74	Pass
NVNT	BLE 1M	2402	2312.784	-57.61	2	39.65	Average	<=54	Pass
NVNT	BLE 1M	2402	2390	-48.94	2	48.32	Peak	<=74	Pass
NVNT	BLE 1M	2402	2390	-58.51	2	38.75	Average	<=54	Pass
NVNT	BLE 1M	2480	2483.5	-48.35	2	48.91	Peak	<=74	Pass
NVNT	BLE 1M	2480	2483.5	-57.02	2	40.24	Average	<=54	Pass
NVNT	BLE 1M	2480	2487.496	-42.72	2	54.54	Peak	<=74	Pass
NVNT	BLE 1M	2480	2483.608	-56.26	2	41	Average	<=54	Pass
NVNT	BLE 1M	2480	2500	-48.08	2	49.18	Peak	<=74	Pass
NVNT	BLE 1M	2480	2500	-57.12	2	40.14	Average	<=54	Pass
NVNT	BLE 2M	2402	2310	-51.05	2	46.21	Peak	<=74	Pass
NVNT	BLE 2M	2402	2310	-58.38	2	38.88	Average	<=54	Pass
NVNT	BLE 2M	2402	2365.776	-47.05	2	50.21	Peak	<=74	Pass
NVNT	BLE 2M	2402	2313.552	-57.49	2	39.77	Average	<=54	Pass
NVNT	BLE 2M	2402	2390	-50.65	2	46.61	Peak	<=74	Pass
NVNT	BLE 2M	2402	2390	-58.58	2	38.68	Average	<=54	Pass
NVNT	BLE 2M	2480	2483.5	-44.39	2	52.87	Peak	<=74	Pass
NVNT	BLE 2M	2480	2483.5	-56.77	2	40.49	Average	<=54	Pass
NVNT	BLE 2M	2480	2487.76	-42.57	2	54.69	Peak	<=74	Pass
NVNT	BLE 2M	2480	2487.76	-55.44	2	41.82	Average	<=54	Pass
NVNT	BLE 2M	2480	2500	-46.69	2	50.57	Peak	<=74	Pass
NVNT	BLE 2M	2480	2500	-57.78	2	39.48	Average	<=54	Pass

Test Graphs

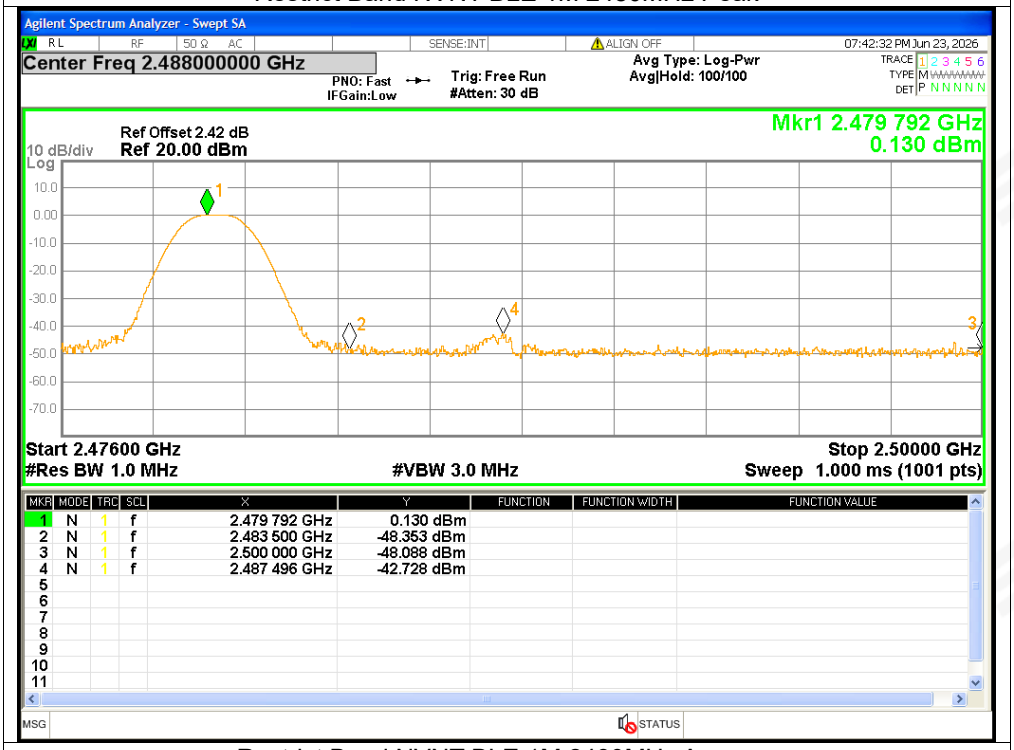
Restrict Band NVNT BLE 1M 2402MHz Peak



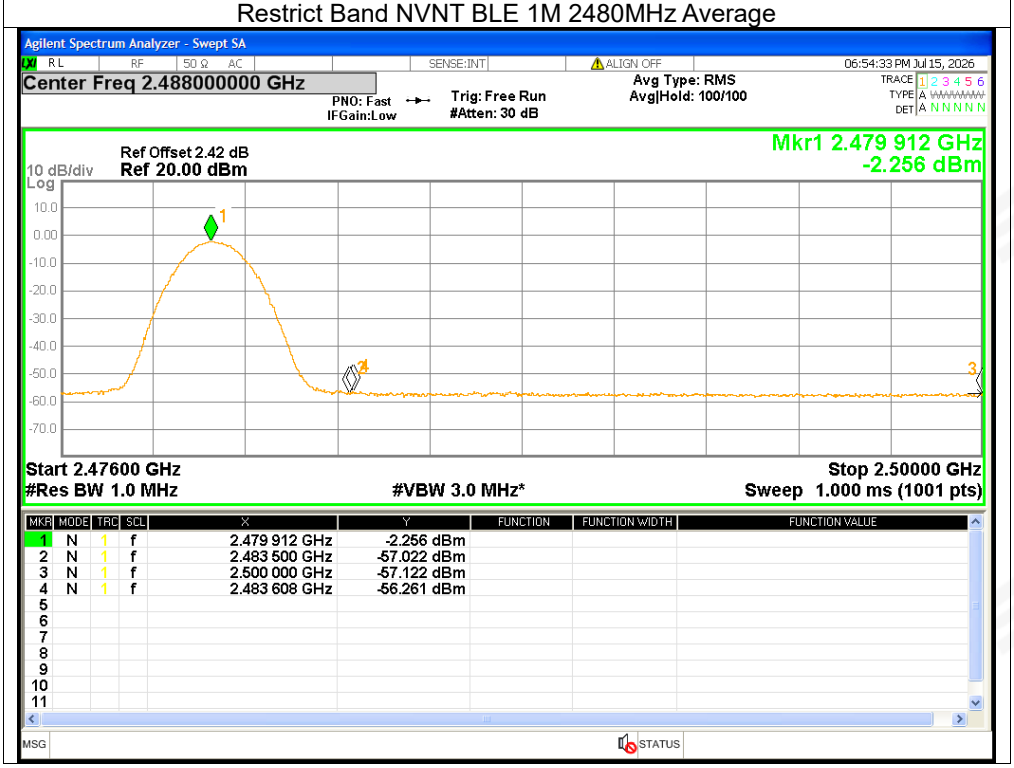
Restrict Band NVNT BLE 1M 2402MHz Average



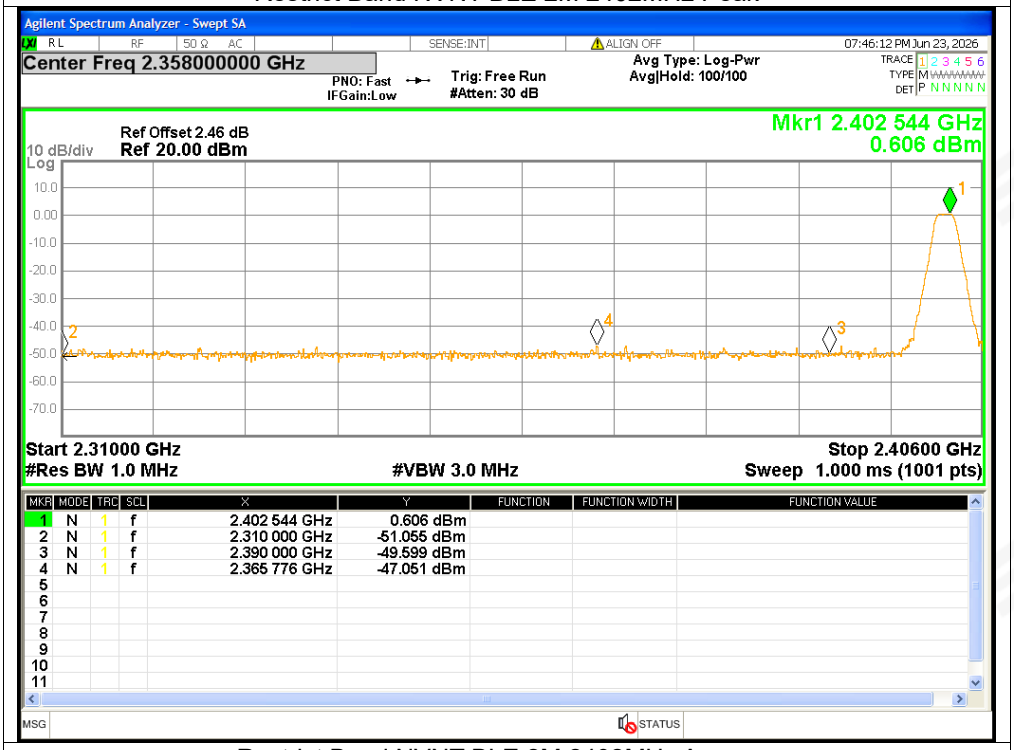
Restrict Band NVNT BLE 1M 2480MHz Peak



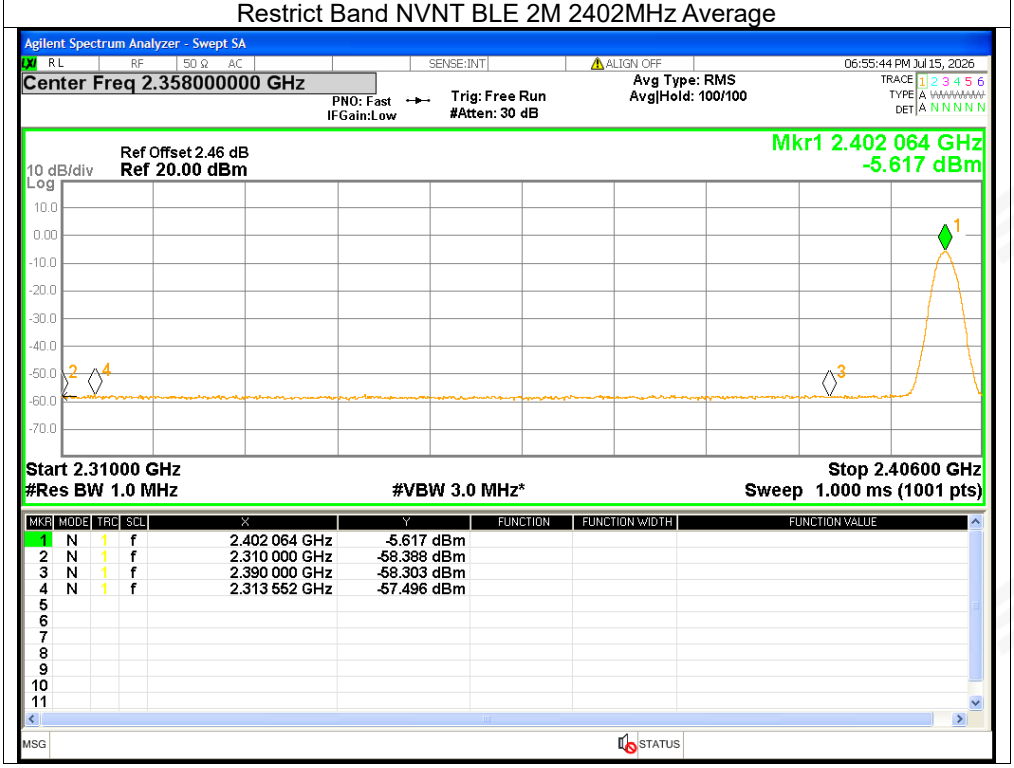
Restrict Band NVNT BLE 1M 2480MHz Average



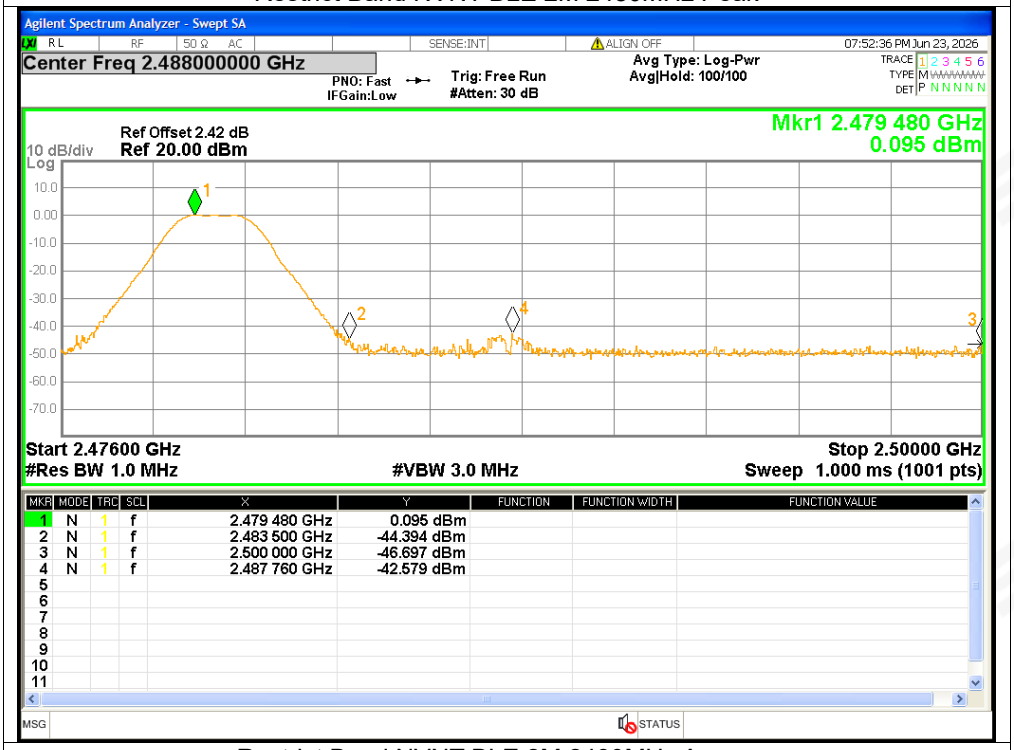
Restrict Band NVNT BLE 2M 2402MHz Peak



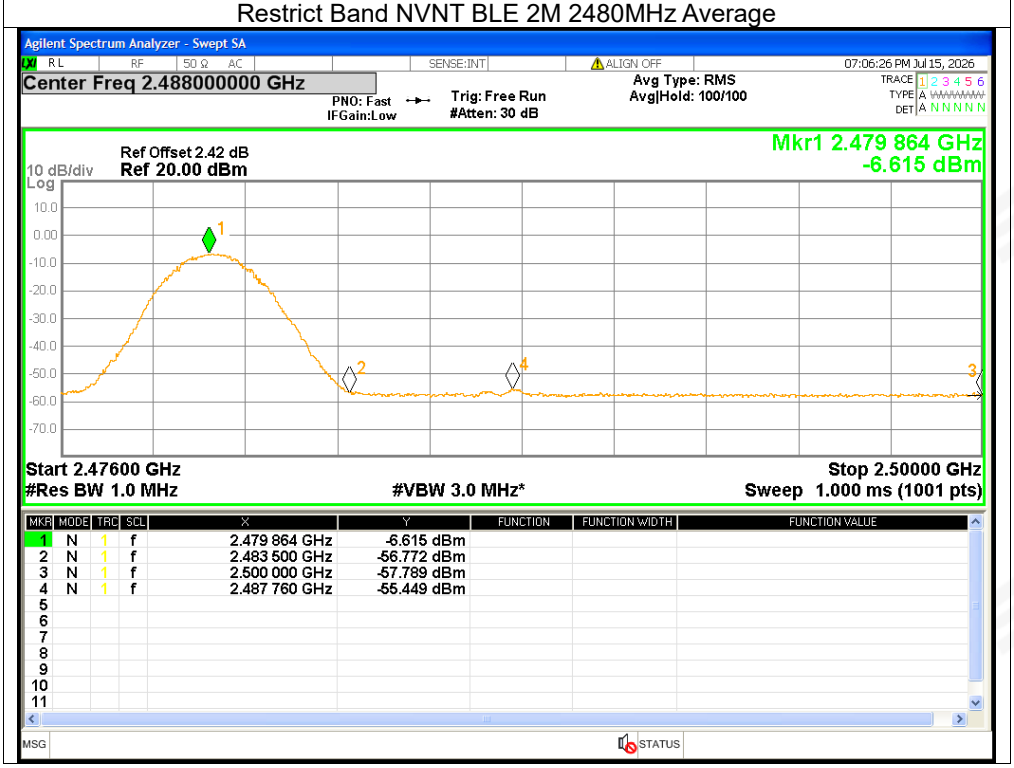
Restrict Band NVNT BLE 2M 2402MHz Average



Restrict Band NVNT BLE 2M 2480MHz Peak



Restrict Band NVNT BLE 2M 2480MHz Average



APPENDIX 2- EUT TEST PHOTO

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※