



Radio Test Report

Report No.:STS2604055W05

Issued for

Anhui Huami Information Technology Co.,Ltd.

Room 401-1, Building H8, Hefei Innovation Industrial Park
Phase II, No.2800, Chuangxin Road, High-tech Zone, Hefei
City, Anhui Pilot Free Trade Zone, China

Product Name: Smart Watch

Brand Name: AMAZFIT

Model Name: A2566

Series Model(s): N/A

FCC ID: 2AC8UA2566

Test Standards: FCC Part15.247

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.

**TEST REPORT**

Applicant's Name: Anhui Huami Information Technology Co.,Ltd.
Address: Room 401-1, Building H8, Hefei Innovation Industrial Park Phase II,
No.2800, Chuangxin Road, High-tech Zone, Hefei City, Anhui Pilot
Free Trade Zone, China
Manufacturer's Name.....: Anhui Huami Information Technology Co., Ltd.
Address: Room 401-1, Building H8, Hefei Innovation Industrial Park Phase II,
No.2800, Chuangxin Road, High-tech Zone, Hefei City, Anhui Pilot
Free Trade Zone, China

Product Description

Product Name.....: Smart Watch
Brand Name.....: AMAZFIT
Model Name: A2566
Series Model(s): N/A

Test Standards: FCC Part15.247

Test Procedure.....: ANSI C63.10-2020

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.....: 10 Apr. 2026
Date (s) of performance of tests: 10 Apr. 2026~23 Apr. 2026
Date of Issue: 23 Apr. 2026
Test Result.....: **Pass**

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Authorized Signatory :

Bovey Yang

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	23 Apr. 2026	STS2604055W05	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.



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



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smart Watch	
Brand Name	AMAZFIT	
Model Name	A2566	
Series Model(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is a Smart Watch	
	Operation Frequency:	2402~2480 MHz
	Modulation Type:	GFSK
	Radio Technology:	BLE
	Bluetooth Configuration:	LE(Support 1M PHY, 2M PHY)
	Number Of Channel:	40
	Antenna Type:	Metal
	Antenna Gain:	-4.23dBi
Channel List	Please refer to the Note 3.	
Power Rating	Input: DC 5V,1.5A	
Adapter	N/A	
Battery	Model: PL562830 Rated Voltage: 3.91V Charge Limit Voltage: 4.5V Capacity: 658mAh	
Hardware version number	958710	
Software version number	18.13.26.22.3s	
Connecting I/O Port(s)	Please refer to the Note 1.	

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



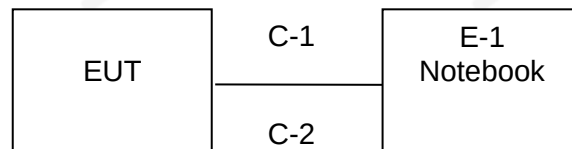
2.3 TEST SOFTWARE AND POWER LEVEL

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

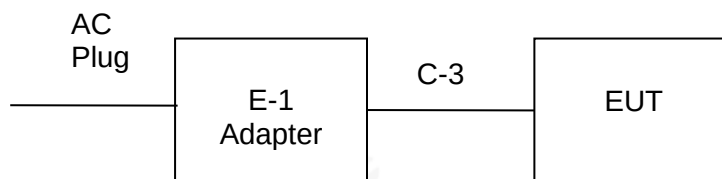
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
BLE(With 2M PHY)	BLE_1M PHY	GFSK	-4.23	default	RTLBTAPP v5.3.2.31
	BLE_2M PHY	GFSK		default	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

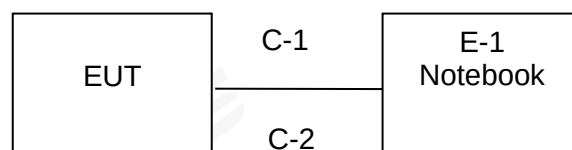
Radiated Spurious Emission Test



Conducted 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
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2026.02.04	2027.02.03
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	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Band 2.4G-2.5G Filter	HX MICROWAVE	HXLBQ-DZA61	N/A	2025.09.23	2026.09.22
Antenna Mast	MF	MFA-440H	N/A	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	HONGSHENG FENG	DPS-305AF	17064939	2025.09.22	2026.09.21
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
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
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			
RF Connected Test					
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	N/A	N/A	N/A
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2026.02.04	2027.02.03
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
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 Emission limit (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.

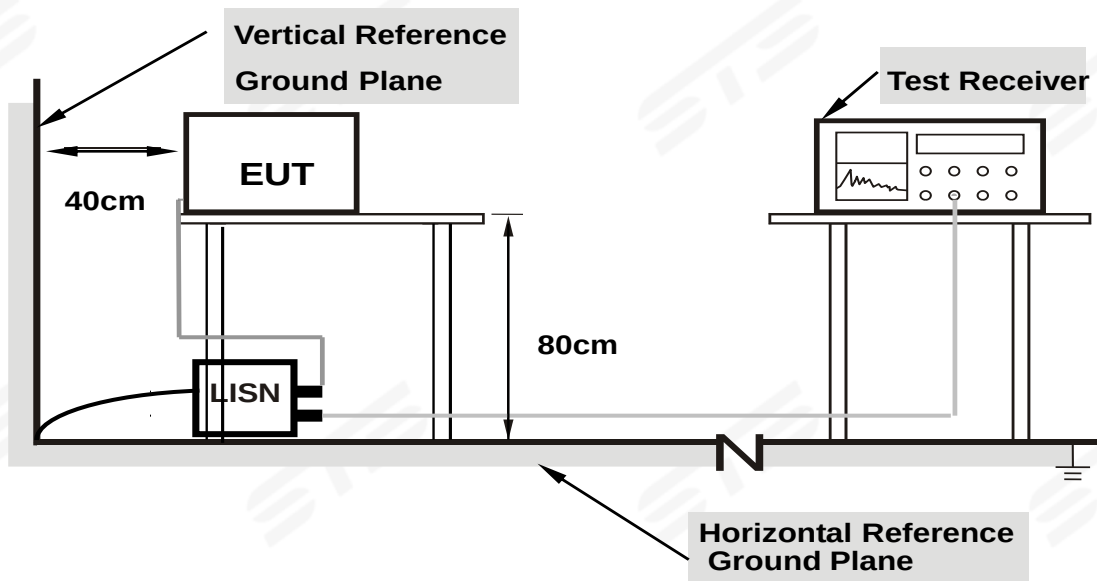
The following table is the setting of the receiver

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

3.2 TEST PROCEDURE

- 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.
- 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.
- 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.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- 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

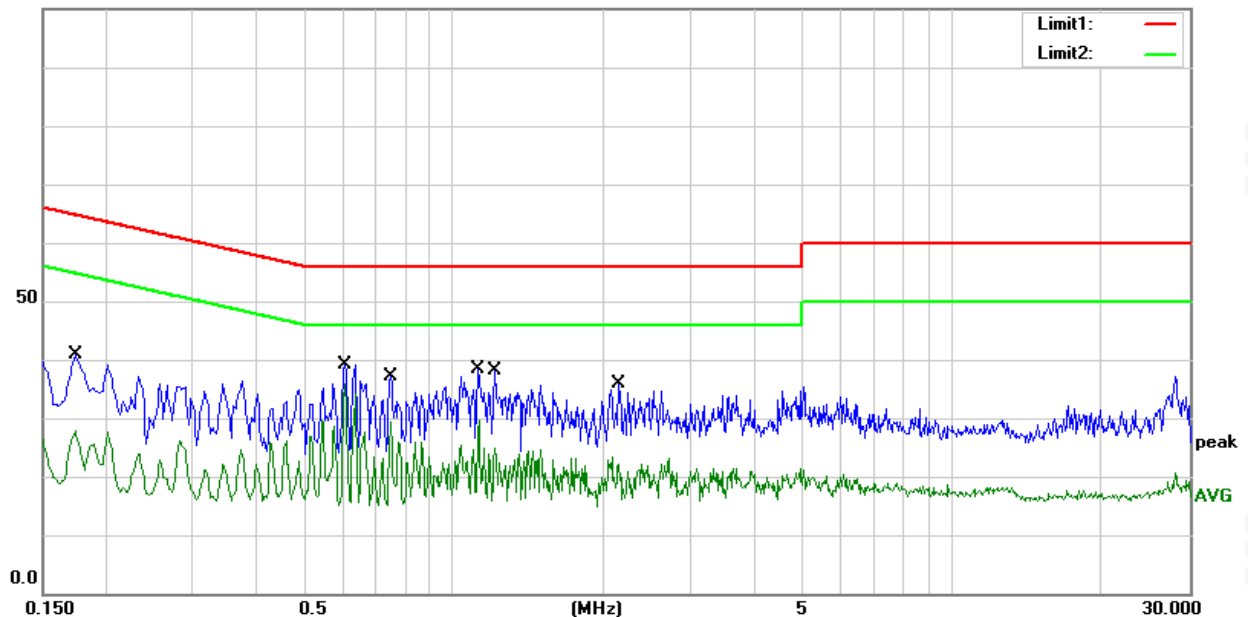
Temperature:	25.1°C	Relative Humidity:	58%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 7		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1740	21.56	19.38	40.94	64.77	-23.83	QP
2	0.1740	8.39	19.38	27.77	54.77	-27.00	AVG
3	0.6060	19.81	19.38	39.19	56.00	-16.81	QP
4	0.6060	16.41	19.38	35.79	46.00	-10.21	AVG
5	0.7500	17.83	19.37	37.20	56.00	-18.80	QP
6	0.7500	10.07	19.37	29.44	46.00	-16.56	AVG
7	1.1220	18.95	19.35	38.30	56.00	-17.70	QP
8	1.1220	10.37	19.35	29.72	46.00	-16.28	AVG
9	1.2140	18.74	19.35	38.09	56.00	-17.91	QP
10	1.2140	5.48	19.35	24.83	46.00	-21.17	AVG
11	2.1540	16.40	19.35	35.75	56.00	-20.25	QP
12	2.1540	2.81	19.35	22.16	46.00	-23.84	AVG

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)

100.0 dBuV





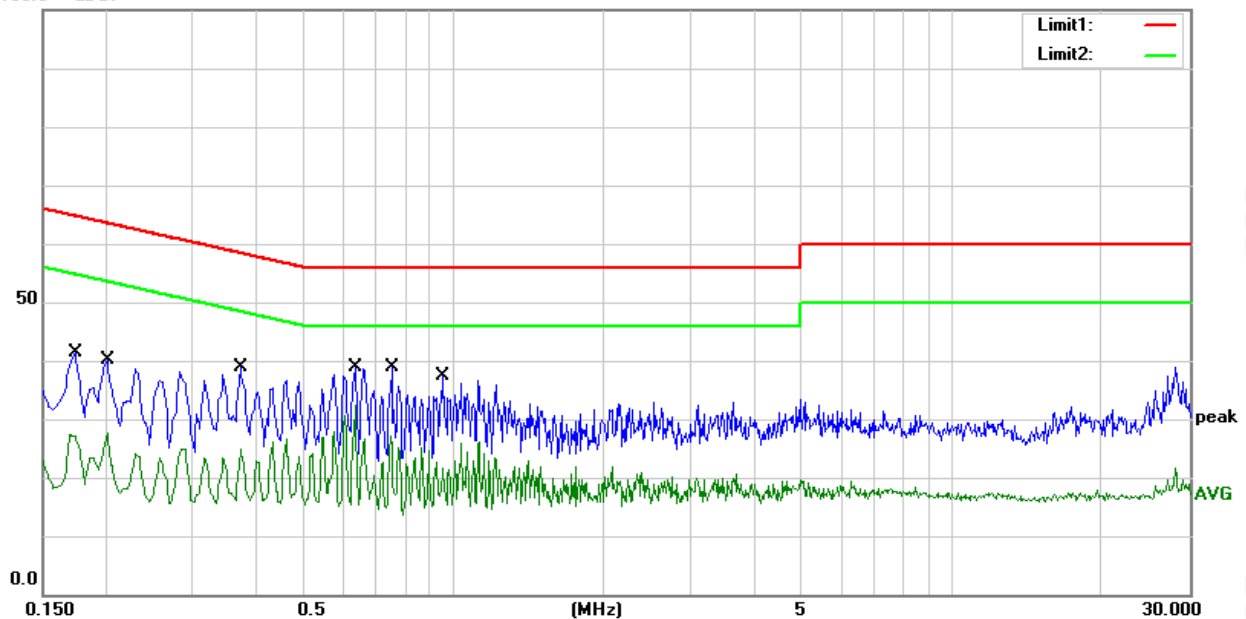
Temperature:	25.1°C	Relative Humidity:	58%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 7		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1740	21.89	19.38	41.27	64.77	-23.50	QP
2	0.1740	7.90	19.38	27.28	54.77	-27.49	AVG
3	0.2020	20.76	19.39	40.15	63.53	-23.38	QP
4	0.2020	8.24	19.39	27.63	53.53	-25.90	AVG
5	0.3740	19.59	19.37	38.96	58.41	-19.45	QP
6	0.3740	5.43	19.37	24.80	48.41	-23.61	AVG
7	0.6340	19.53	19.37	38.90	56.00	-17.10	QP
8	0.6340	12.93	19.37	32.30	46.00	-13.70	AVG
9	0.7540	19.39	19.37	38.76	56.00	-17.24	QP
10	0.7540	5.80	19.37	25.17	46.00	-20.83	AVG
11	0.9540	17.95	19.35	37.30	56.00	-18.70	QP
12	0.9540	3.25	19.35	22.60	46.00	-23.40	AVG

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)

100.0 dBuV





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 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).

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			



For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz Upper Band Edge: 2475 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)



Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

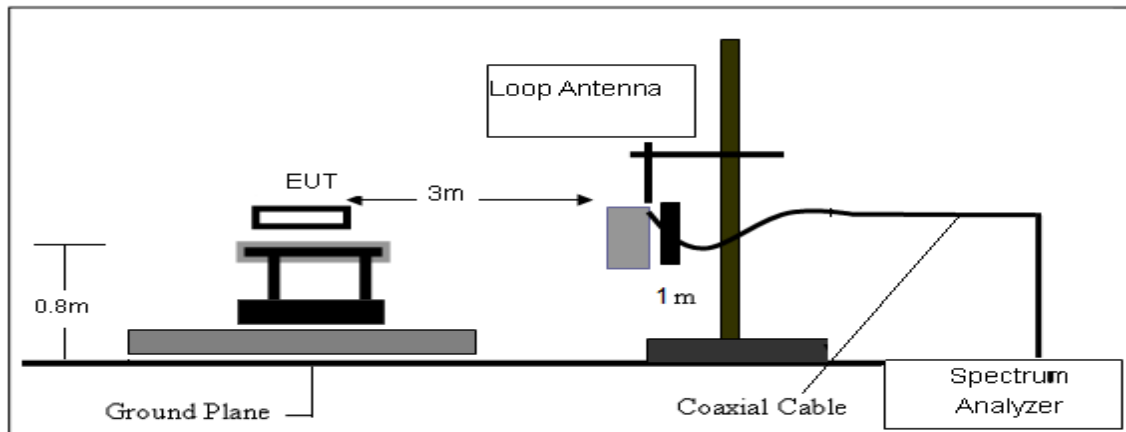
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

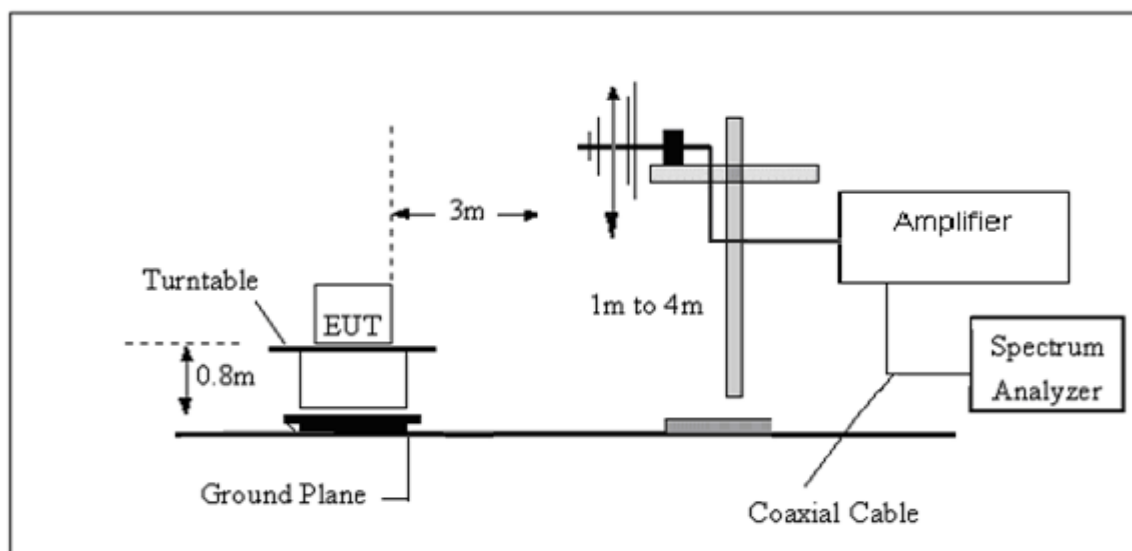
Both horizontal and vertical antenna polarities were tested with a band-stop filter and performed pretest to three orthogonal axis. The worst-case emissions were reported.

4.3 TEST SETUP

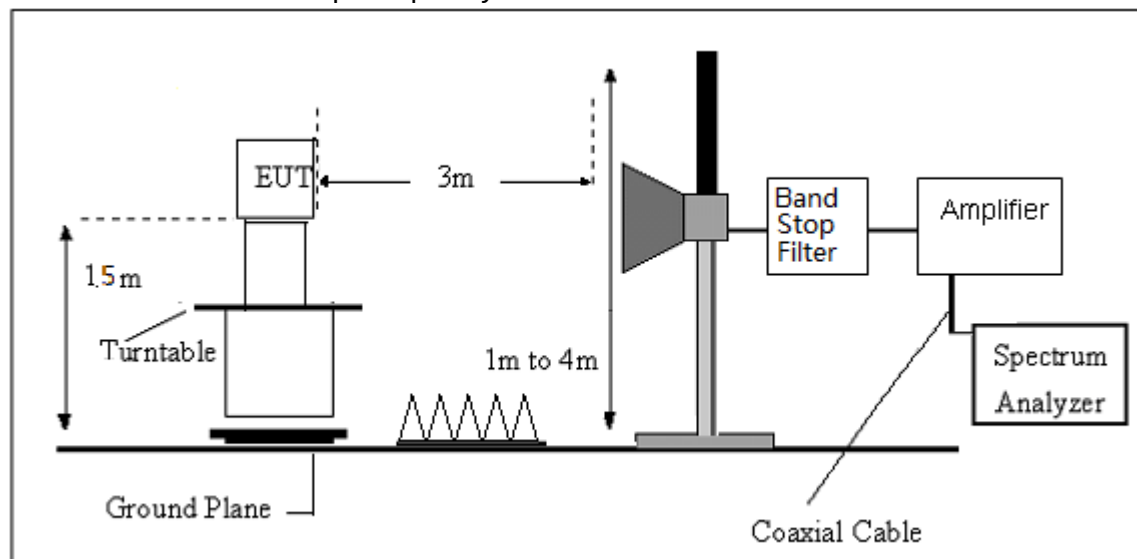
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



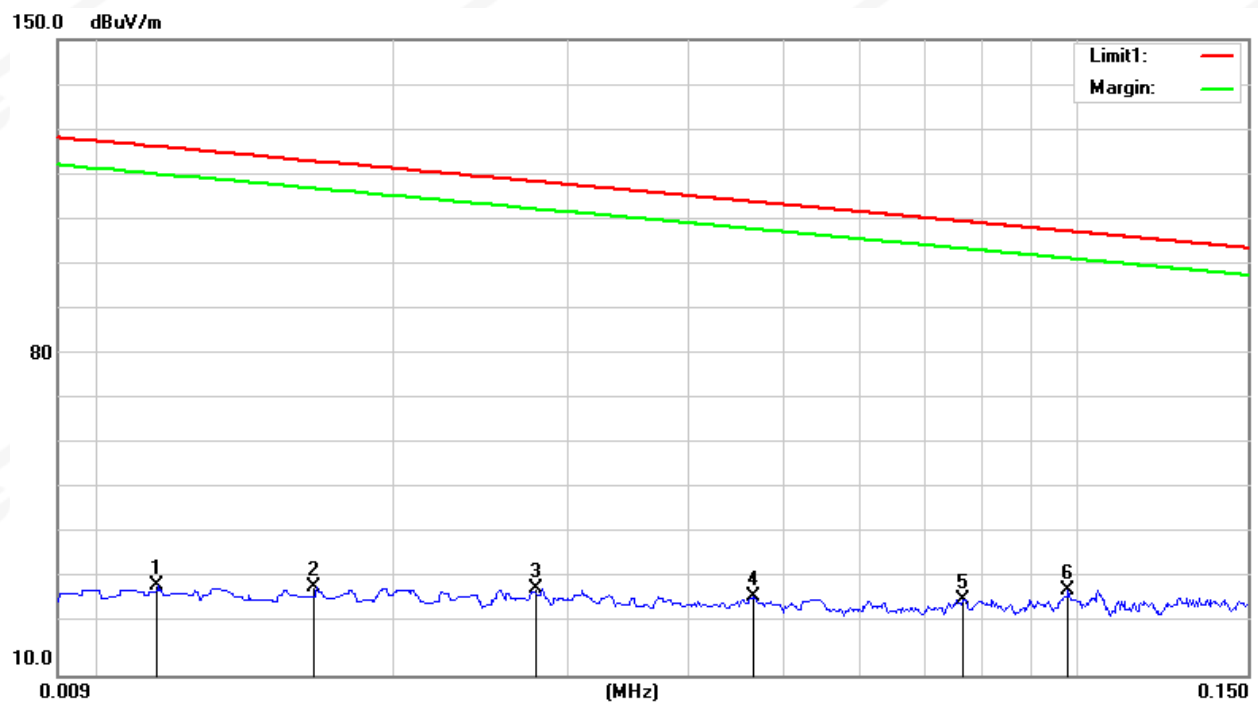
4.6 TEST RESULTS

1M PHY

9K-150K

Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.91V	Direction:	Coaxial
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)		

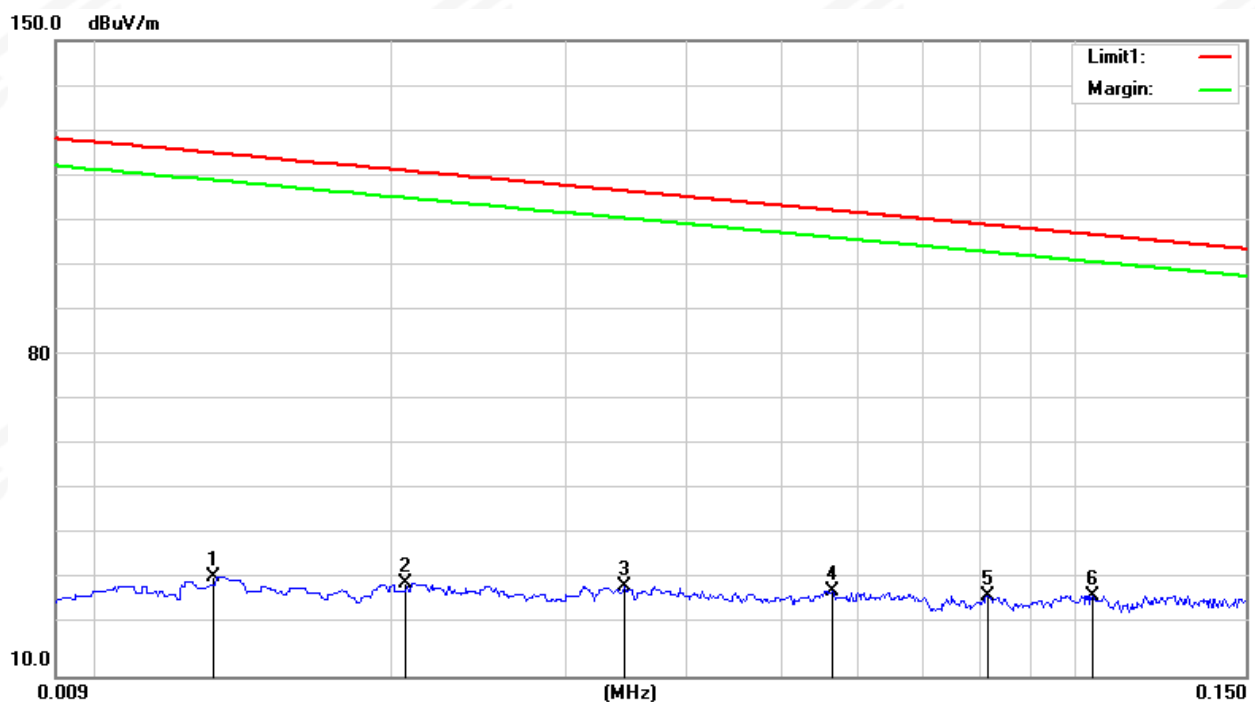
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(KHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0114	10.21	19.47	29.68	126.47	-96.79	peak
2	0.0165	9.61	19.85	29.46	123.26	-93.80	peak
3	0.0280	9.00	19.94	28.94	118.66	-89.72	peak
4	0.0466	7.62	19.57	27.19	114.24	-87.05	peak
5	0.0767	7.99	18.72	26.71	109.91	-83.20	peak
6	0.0981	11.03	17.69	28.72	107.77	-79.05	peak





Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 3.91V	Direction:	Coplanar
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)		

No.	Frequency (KHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0131	12.40	19.60	32.00	125.26	-93.26	peak
2	0.0206	10.48	20.09	30.57	121.33	-90.76	peak
3	0.0345	9.90	19.81	29.71	116.85	-87.14	peak
4	0.0563	9.37	19.32	28.69	112.59	-83.90	peak
5	0.0815	9.15	18.49	27.64	109.38	-81.74	peak
6	0.1043	10.24	17.59	27.83	107.24	-79.41	peak

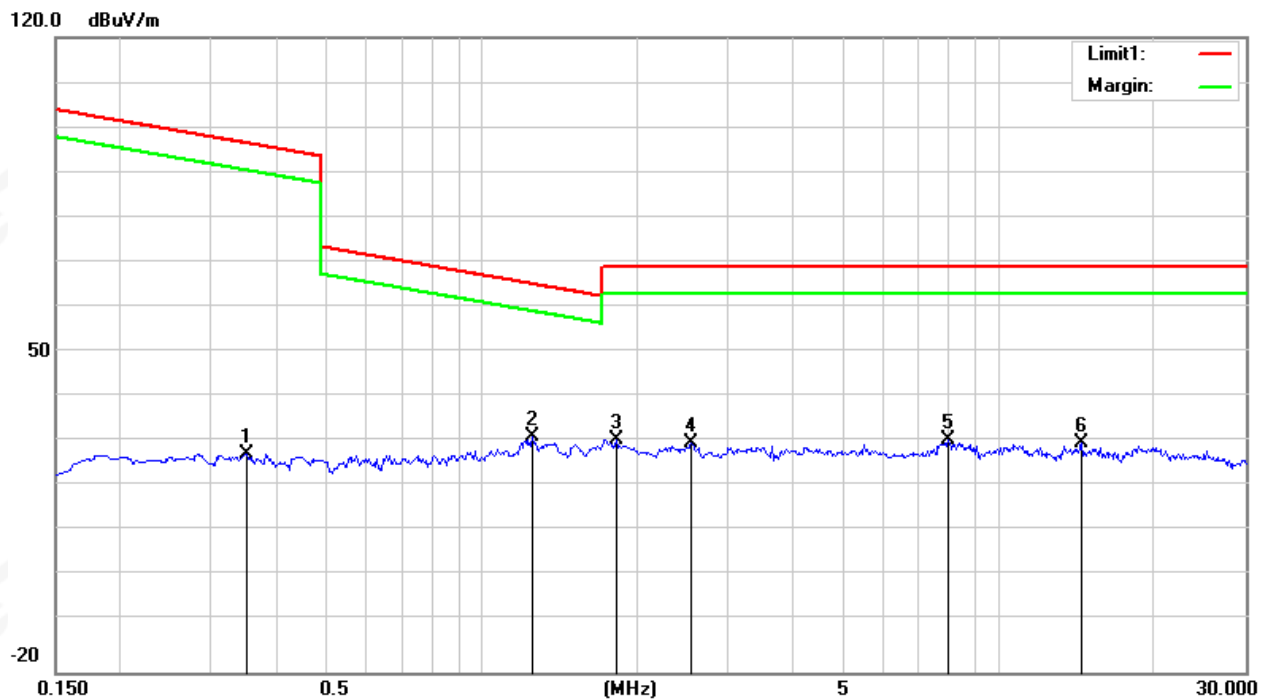




150K-30M

Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.91V	Direction:	Coaxial
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)		

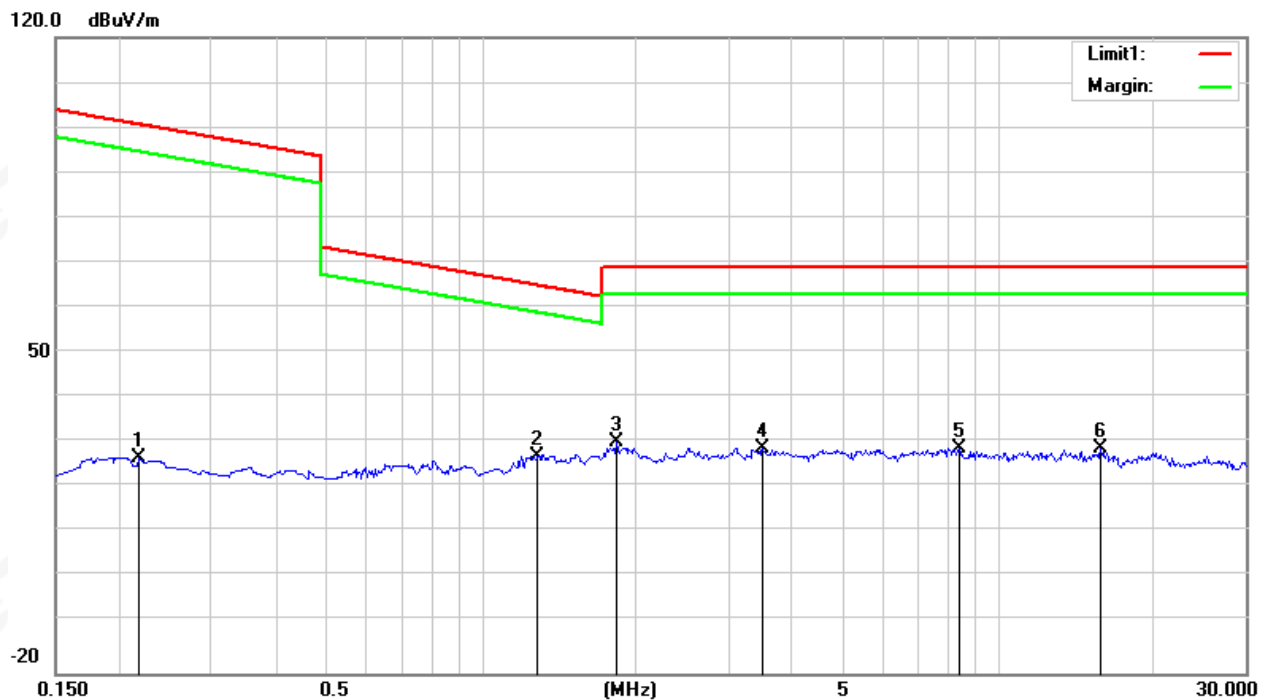
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(KHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.3520	7.95	20.14	28.09	96.67	-68.58	peak
2	1.2542	11.68	20.25	31.93	65.64	-33.71	peak
3	1.8216	11.00	20.36	31.36	69.50	-38.14	peak
4	2.5400	10.19	20.24	30.43	69.50	-39.07	peak
5	8.0006	10.85	20.32	31.17	69.50	-38.33	peak
6	14.4481	9.30	21.18	30.48	69.50	-39.02	peak





Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.91V	Direction:	Coplanar
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(KHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.2174	8.28	19.25	27.53	100.86	-73.33	peak
2	1.2842	7.58	20.26	27.84	65.43	-37.59	peak
3	1.8216	10.50	20.36	30.86	69.50	-38.64	peak
4	3.4931	9.13	20.25	29.38	69.50	-40.12	peak
5	8.3886	9.39	20.30	29.69	69.50	-39.81	peak
6	15.7911	8.16	21.49	29.65	69.50	-39.85	peak



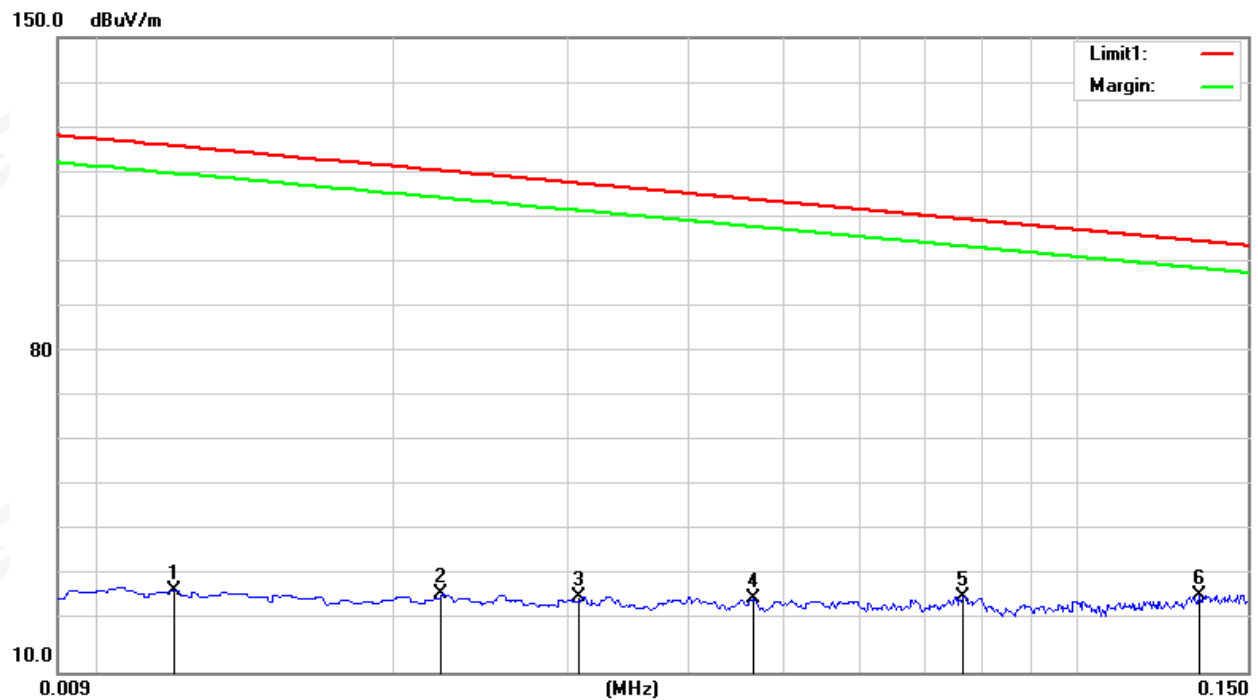


2M PHY

9K-150K

Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.91V	Direction:	Coaxial
Test Mode:	Mode 4/5/6 (Mode 5 worst mode)		

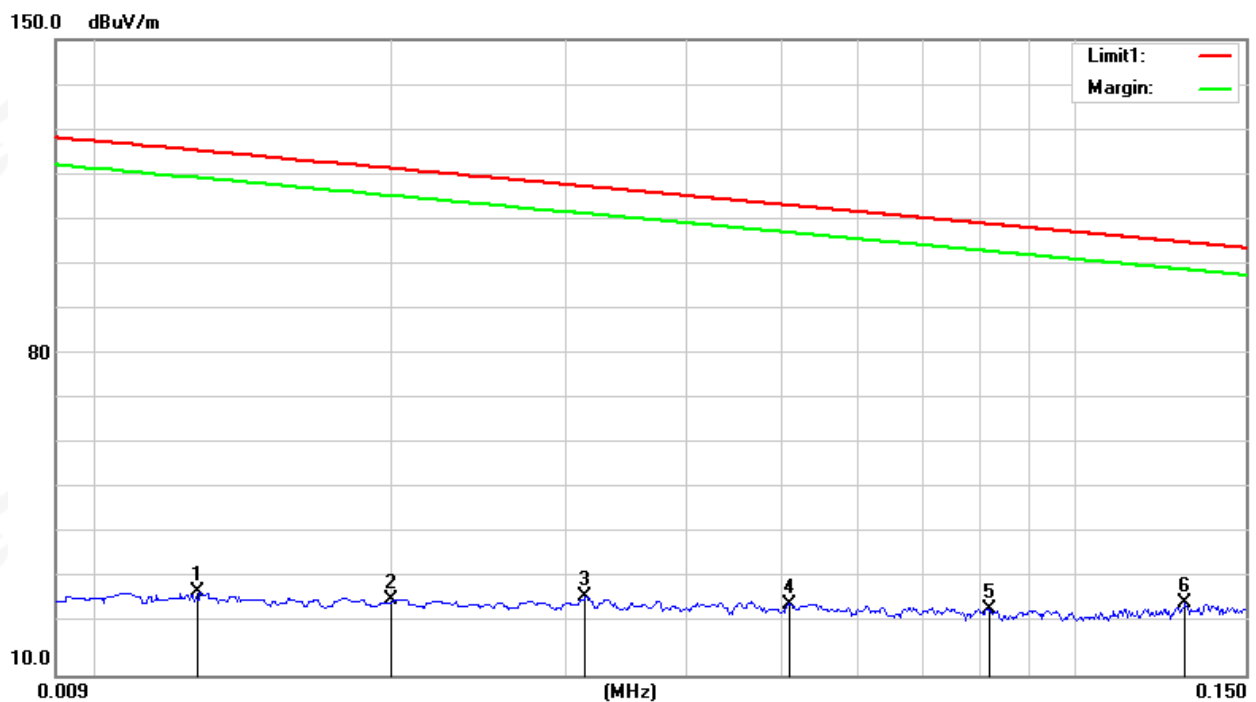
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(KHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0120	8.49	19.52	28.01	126.02	-98.01	peak
2	0.0223	7.23	20.05	27.28	120.64	-93.36	peak
3	0.0310	6.85	19.88	26.73	117.78	-91.05	peak
4	0.0466	6.62	19.57	26.19	114.24	-88.05	peak
5	0.0767	7.99	18.72	26.71	109.91	-83.20	peak
6	0.1338	9.48	17.53	27.01	105.08	-78.07	peak





Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.91V	Direction:	Coplanar
Test Mode:	Mode 4/5/6 (Mode 5 worst mode)		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(KHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0126	8.98	19.56	28.54	125.60	-97.06	peak
2	0.0200	6.69	20.10	26.79	121.58	-94.79	peak
3	0.0314	7.47	19.87	27.34	117.67	-90.33	peak
4	0.0510	6.28	19.47	25.75	113.45	-87.70	peak
5	0.0820	6.04	18.46	24.50	109.33	-84.83	peak
6	0.1300	8.55	17.54	26.09	105.33	-79.24	peak

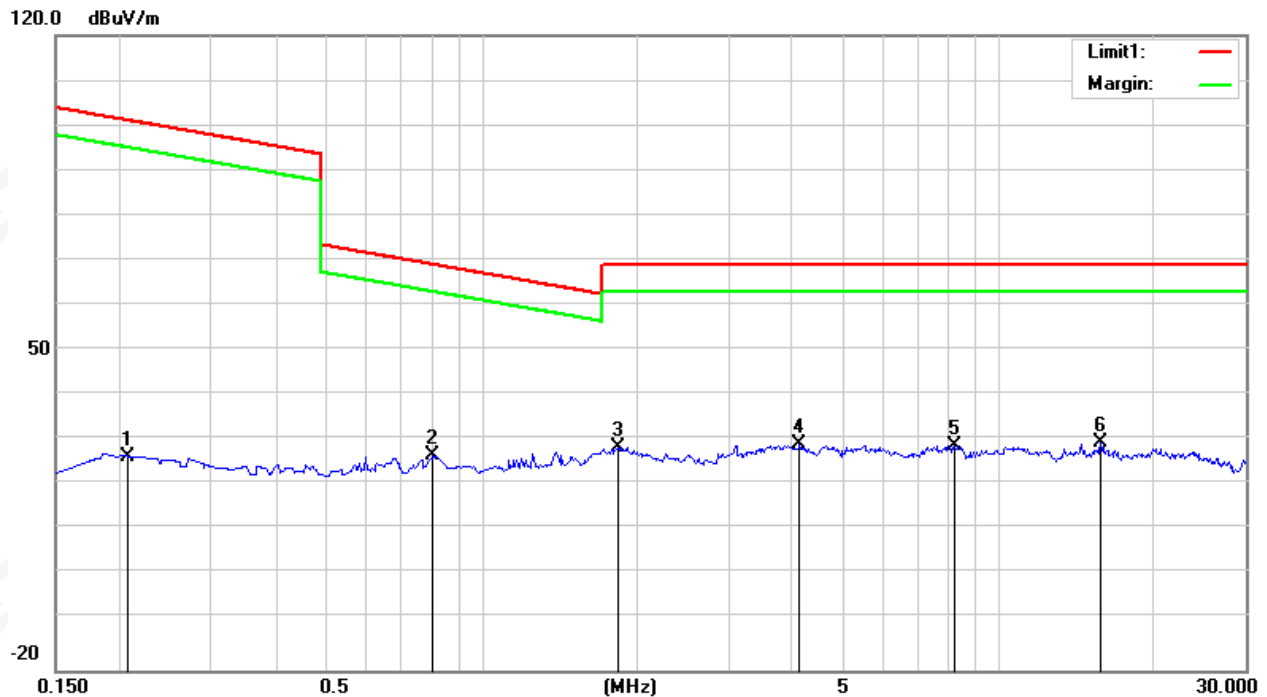




150K-30M

Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.91V	Direction:	Coaxial
Test Mode:	Mode 4/5/6 (Mode 5 worst mode)		

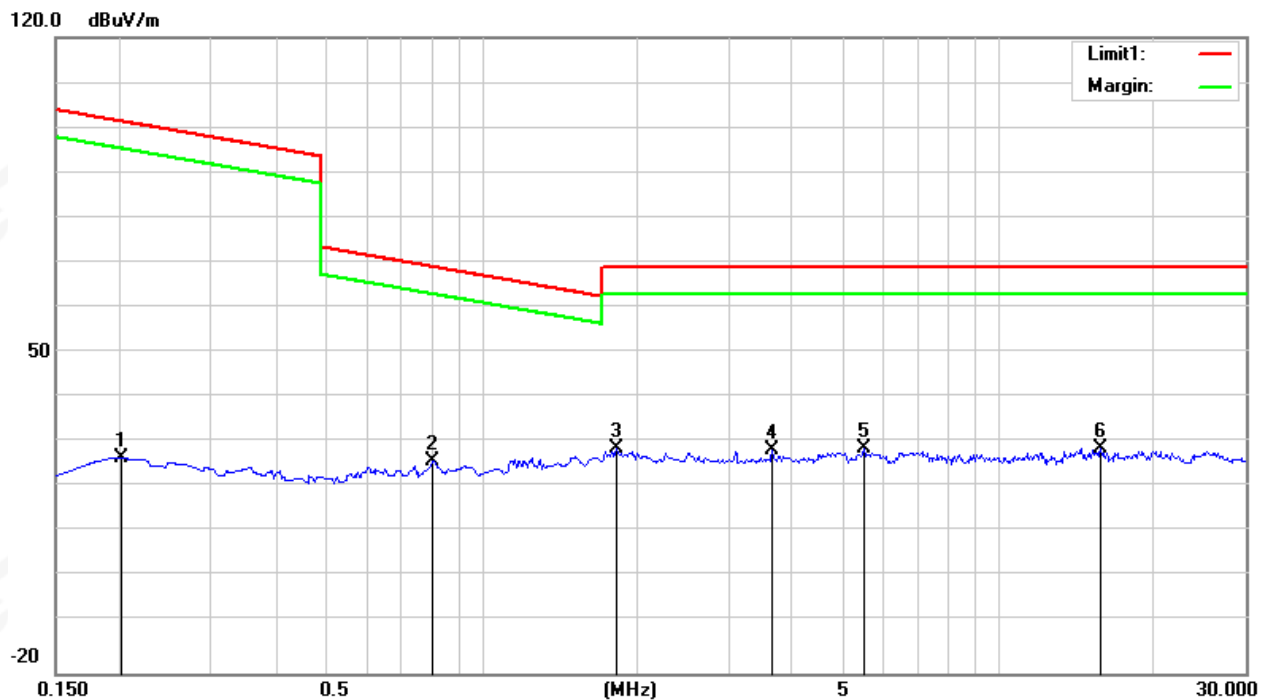
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(KHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.2071	8.26	18.98	27.24	101.28	-74.04	peak
2	0.8064	7.00	20.28	27.28	69.47	-42.19	peak
3	1.8286	8.80	20.37	29.17	69.50	-40.33	peak
4	4.1200	9.50	20.41	29.91	69.50	-39.59	peak
5	8.2094	9.38	20.31	29.69	69.50	-39.81	peak
6	15.7911	8.66	21.49	30.15	69.50	-39.35	peak





Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.91V	Direction:	Coplanar
Test Mode:	Mode 4/5/6 (Mode 5 worst mode)		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(KHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.2006	8.55	18.82	27.37	101.56	-74.19	peak
2	0.8064	6.50	20.28	26.78	69.47	-42.69	peak
3	1.8216	9.00	20.36	29.36	69.50	-40.14	peak
4	3.6425	8.99	20.29	29.28	69.50	-40.22	peak
5	5.4931	8.90	20.47	29.37	69.50	-40.13	peak
6	15.7911	8.16	21.49	29.65	69.50	-39.85	peak





(30MHz -1000MHz)

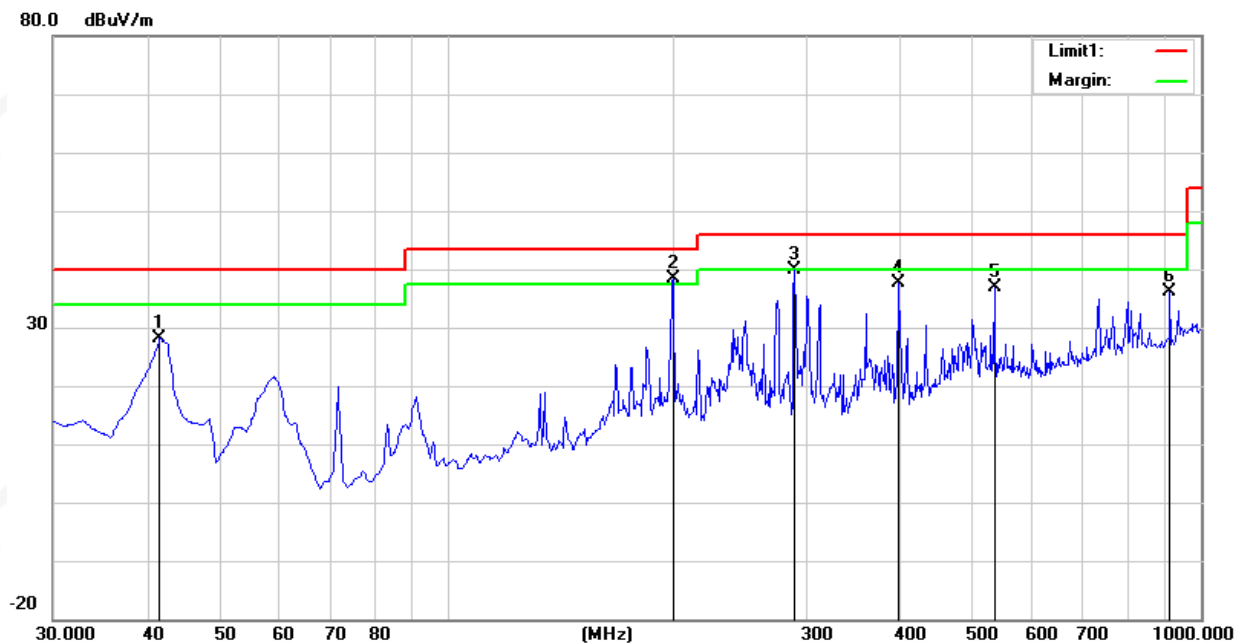
1M PHY

Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.91V	Phase:	Horizontal
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	41.6400	47.11	-18.93	28.18	40.00	-11.82	peak
2	199.7500	59.47	-21.11	38.36	43.50	-5.14	peak
3	289.9600	55.11	-15.16	39.95	46.00	-6.05	peak
4	397.6300	48.79	-11.24	37.55	46.00	-8.45	peak
5	532.4600	44.16	-7.31	36.85	46.00	-9.15	peak
6	910.7600	36.19	-0.17	36.02	46.00	-9.98	peak

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.



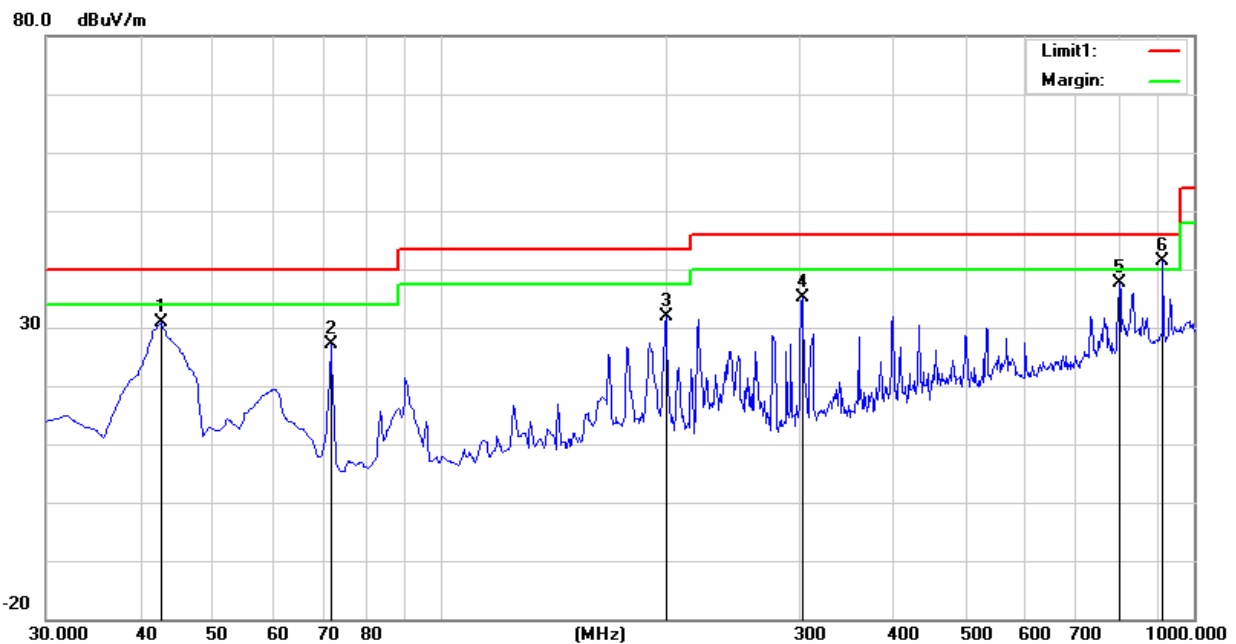


Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.91V	Phase:	Vertical
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	42.6100	50.26	-19.44	30.82	40.00	-9.18	peak
2	71.7100	51.61	-24.56	27.05	40.00	-12.95	peak
3	199.7500	52.93	-21.11	31.82	43.50	-11.68	peak
4	302.5700	49.81	-14.72	35.09	46.00	-10.91	peak
5	796.3000	39.62	-2.02	37.60	46.00	-8.40	peak
6	910.7600	41.66	-0.17	41.49	46.00	-4.51	peak

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.





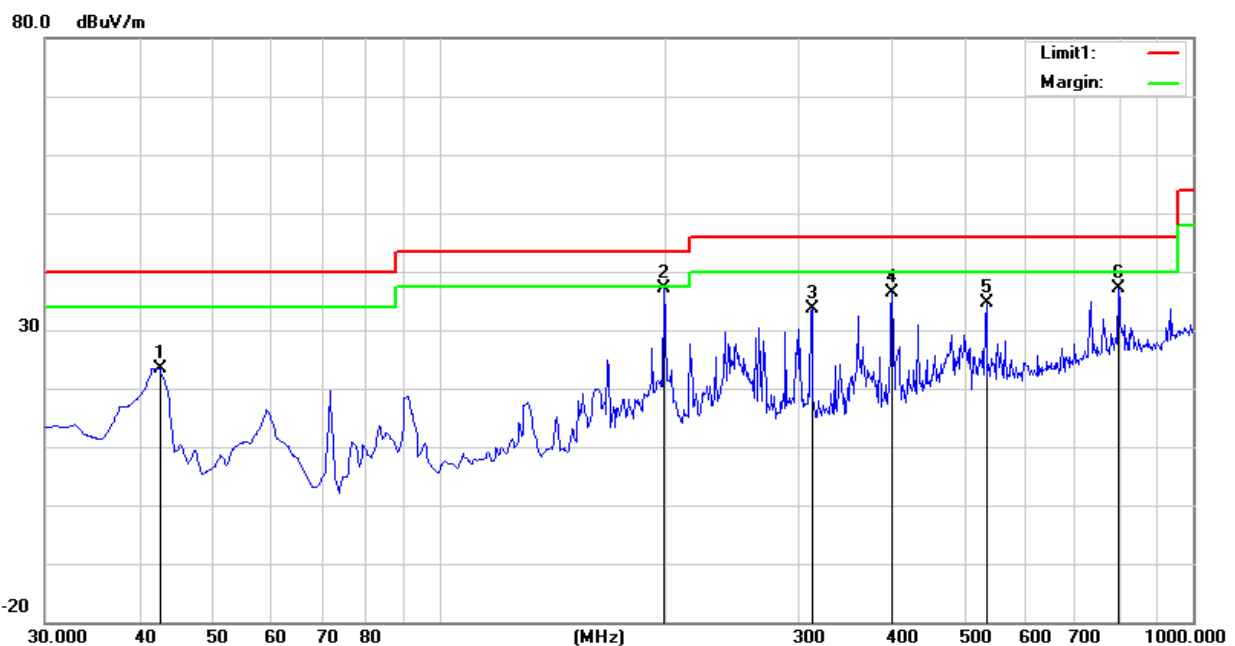
2M PHY

Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.91V	Phase:	Horizontal
Test Mode:	Mode 4/5/6 (Mode 5 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	42.6100	42.83	-19.44	23.39	40.00	-16.61	peak
2	198.7800	58.36	-21.12	37.24	43.50	-6.26	peak
3	312.2700	47.95	-14.36	33.59	46.00	-12.41	peak
4	399.5700	47.60	-11.16	36.44	46.00	-9.56	peak
5	532.4600	41.86	-7.31	34.55	46.00	-11.45	peak
6	797.2700	39.10	-2.03	37.07	46.00	-8.93	peak

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.



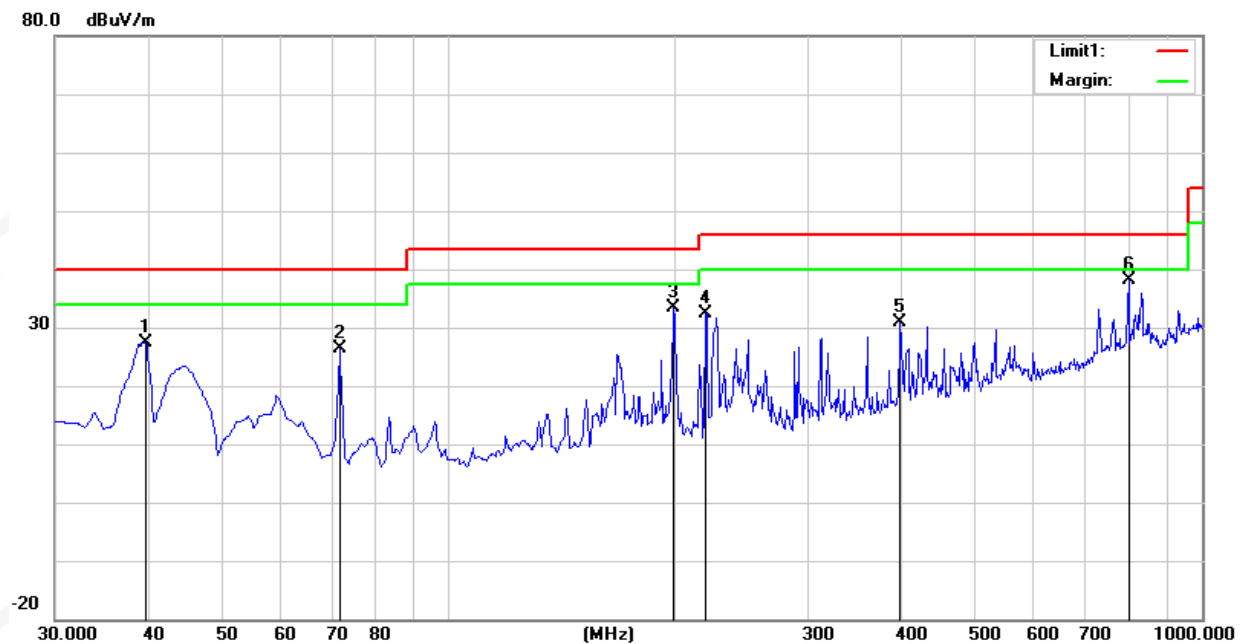


Temperature:	23.4℃	Relative Humidity:	60%
Test Voltage:	DC 3.91V	Phase:	Vertical
Test Mode:	Mode 4/5/6 (Mode 5 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	39.7000	45.27	-17.88	27.39	40.00	-12.61	peak
2	71.7100	50.94	-24.56	26.38	40.00	-13.62	peak
3	198.7800	54.59	-21.12	33.47	43.50	-10.03	peak
4	219.1500	52.12	-19.70	32.42	46.00	-13.58	peak
5	398.6000	42.06	-11.20	30.86	46.00	-15.14	peak
6	799.2100	40.21	-2.04	38.17	46.00	-7.83	peak

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.





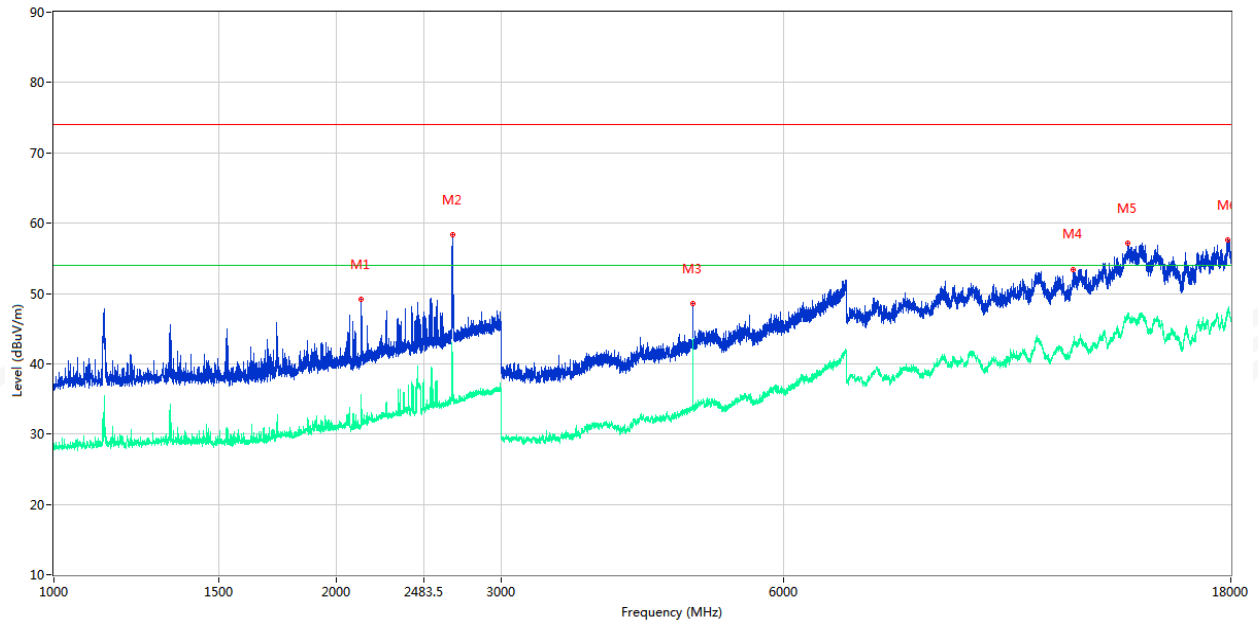
(1GHz-25GHz) Spurious emission Requirements

1M PHY- GFSK

Low Channel

Horizontal

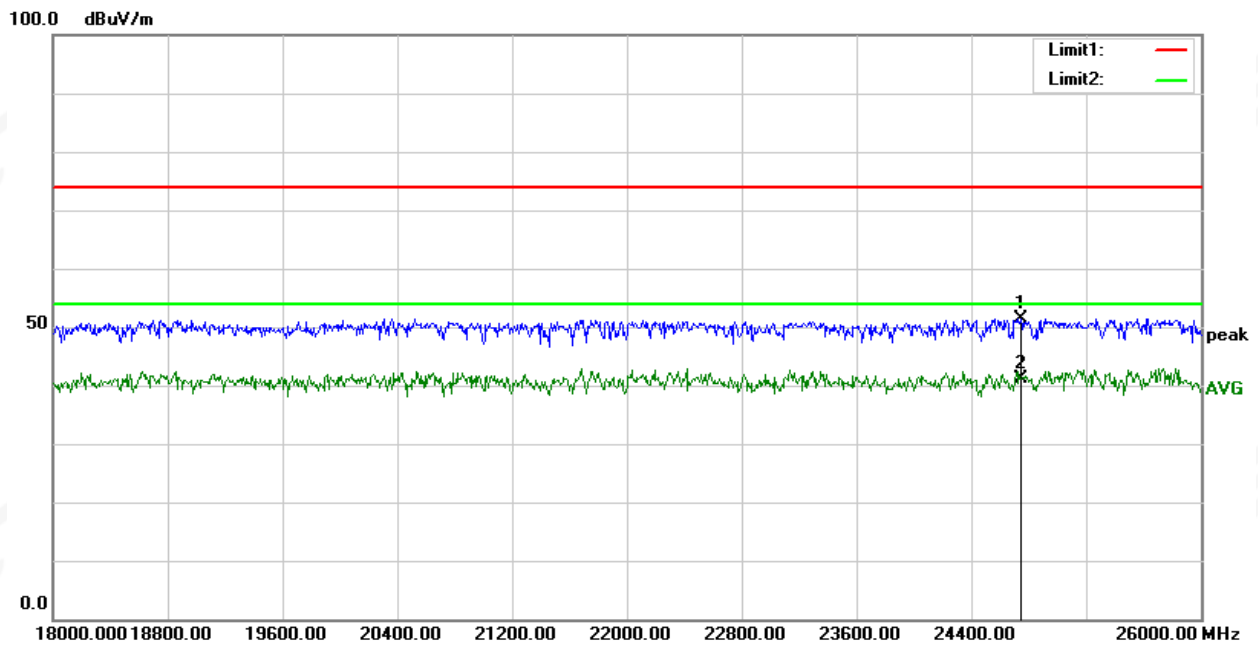
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2128.500	49.21	1.44	74.0	24.79	Peak	114.10	Horizontal	Pass
1**	2128.500	35.59	1.44	54.0	18.41	AV	114.10	Horizontal	Pass
2	2664.500	58.37	3.98	74.0	15.63	Peak	129.30	Horizontal	Pass
2**	2664.500	41.13	3.98	54.0	12.87	AV	129.30	Horizontal	Pass
3	4804.000	48.60	-7.11	74.0	25.40	Peak	6.00	Horizontal	Pass
3**	4804.000	43.60	-7.11	54.0	10.40	AV	6.00	Horizontal	Pass
4	12222.250	53.35	2.81	74.0	20.65	Peak	309.80	Horizontal	Pass
4**	12222.250	42.94	2.81	54.0	11.06	AV	309.80	Horizontal	Pass
5	13982.250	57.11	8.23	74.0	16.89	Peak	89.20	Horizontal	Pass
5**	13982.250	46.82	8.23	54.0	7.18	AV	89.20	Horizontal	Pass
6	17851.501	57.55	6.82	74.0	16.45	Peak	50.50	Horizontal	Pass
6**	17851.501	47.10	6.82	54.0	6.90	AV	50.50	Horizontal	Pass



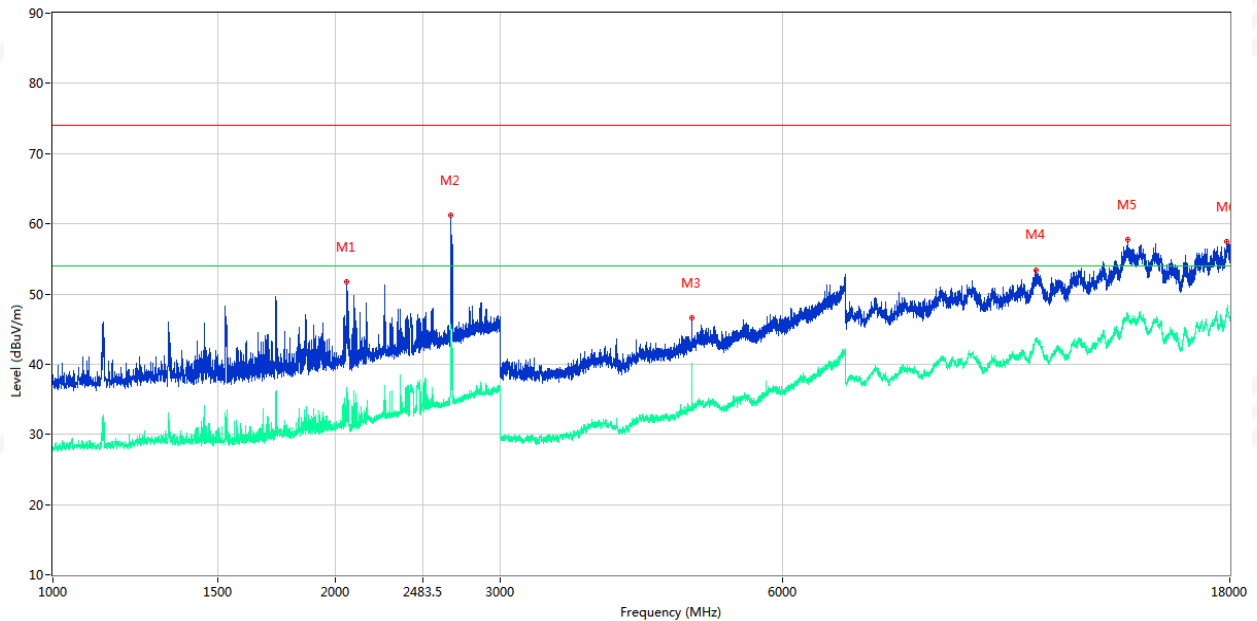
18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/ m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	24744.000	46.43	5.00	51.43	74.00	-22.57	peak
2	24744.000	36.22	5.00	41.22	54.00	-12.78	AVG

Vertical
1GHz-18GHz

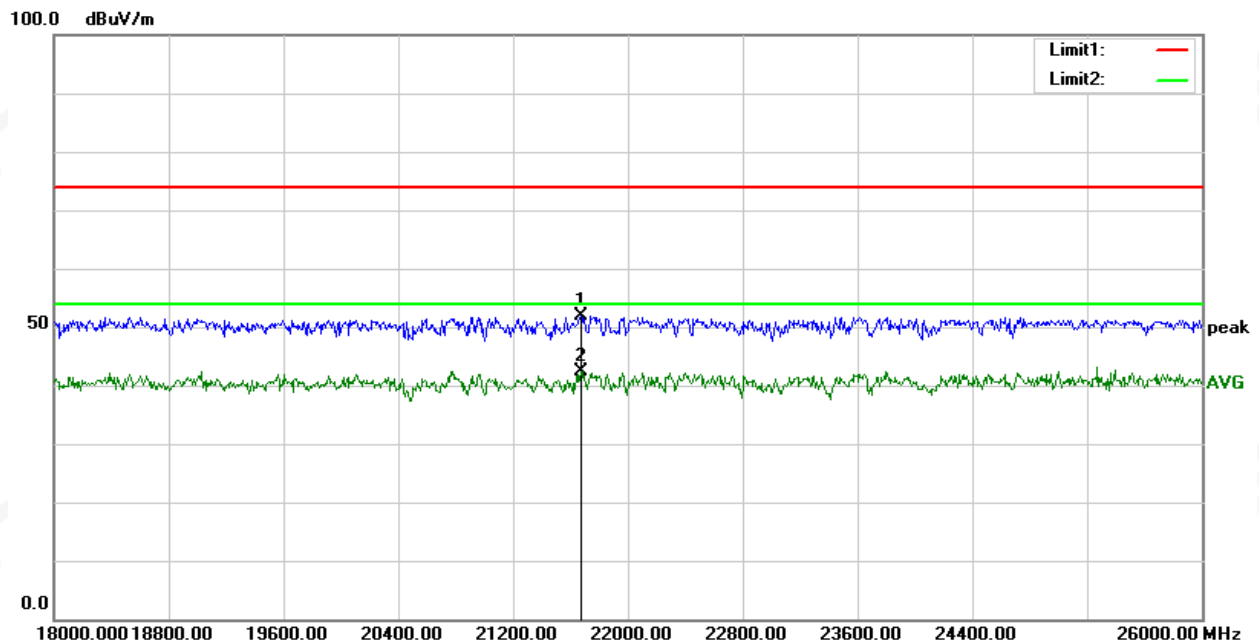
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2058.500	51.72	0.82	74.0	22.28	Peak	109.80	Vertical	Pass
1**	2058.500	36.69	0.82	54.0	17.31	AV	109.80	Vertical	Pass
2	2659.500	61.26	3.98	74.0	12.74	Peak	93.10	Vertical	Pass
2**	2659.500	45.71	3.98	54.0	8.29	AV	93.10	Vertical	Pass
3	4804.000	46.60	-7.11	74.0	27.40	Peak	352.70	Vertical	Pass
3**	4804.000	40.07	-7.11	54.0	13.93	AV	352.70	Vertical	Pass
4	11177.250	53.46	2.50	74.0	20.54	Peak	19.90	Vertical	Pass
4**	11177.250	43.37	2.50	54.0	10.63	AV	19.90	Vertical	Pass
5	14007.000	57.71	8.34	74.0	16.29	Peak	324.40	Vertical	Pass
5**	14007.000	47.00	8.34	54.0	7.00	AV	324.40	Vertical	Pass
6	17870.750	57.39	6.99	74.0	16.61	Peak	67.20	Vertical	Pass
6**	17870.750	47.16	6.99	54.0	6.84	AV	67.20	Vertical	Pass



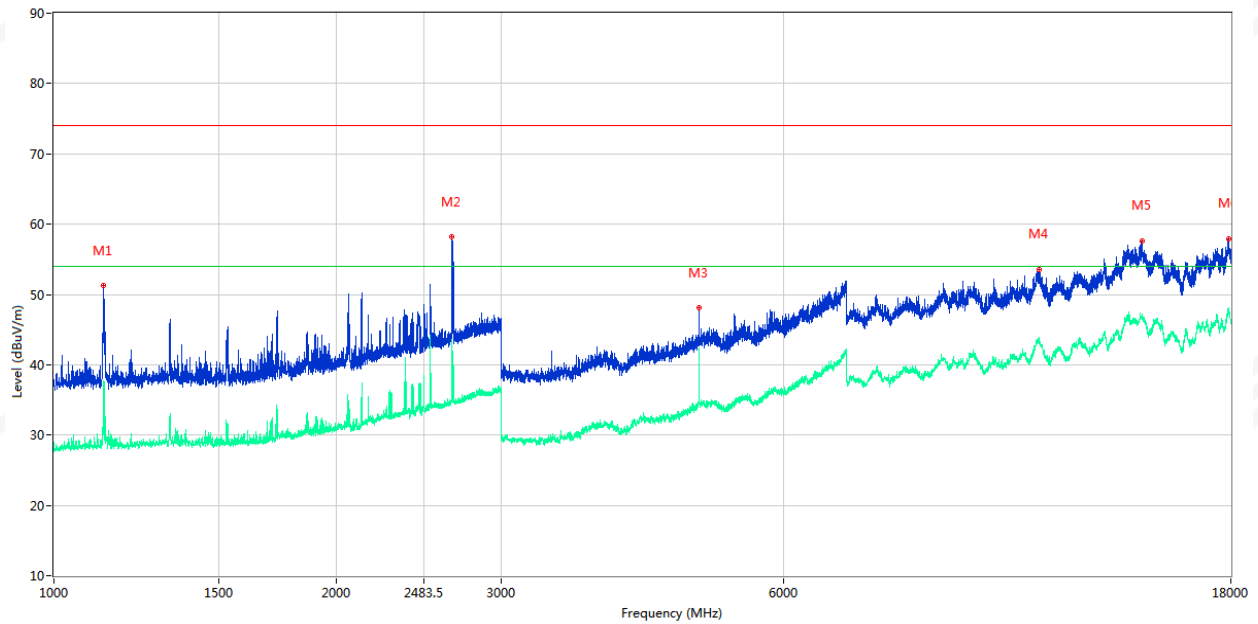
18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	21672.000	48.76	3.10	51.86	74.00	-22.14	peak
2	21672.000	39.26	3.10	42.36	54.00	-11.64	AVG

Mid Channel
Horizontal
1GHz-18GHz

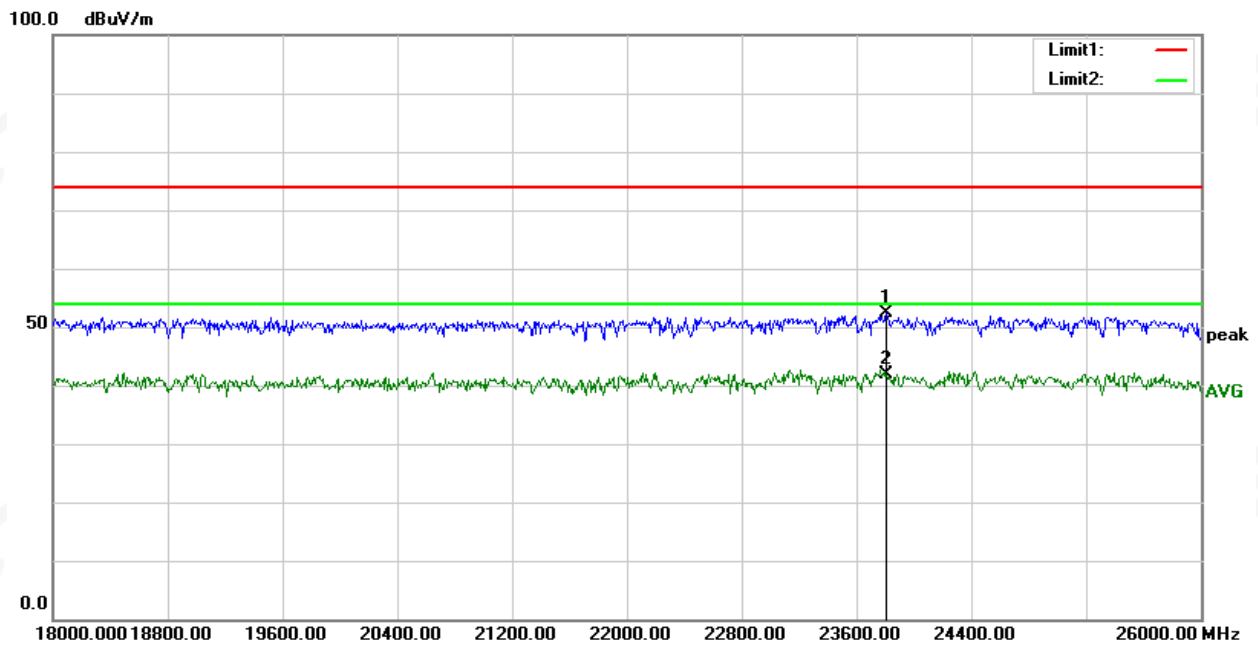
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1129.500	51.27	-1.71	74.0	22.73	Peak	92.10	Horizontal	Pass
1**	1129.500	37.66	-1.71	54.0	16.34	AV	92.10	Horizontal	Pass
2	2656.500	58.19	3.98	74.0	15.81	Peak	126.30	Horizontal	Pass
2**	2656.500	43.56	3.98	54.0	10.44	AV	126.30	Horizontal	Pass
3	4880.000	48.15	-6.29	74.0	25.85	Peak	356.30	Horizontal	Pass
3**	4880.000	42.45	-6.29	54.0	11.55	AV	356.30	Horizontal	Pass
4	11240.500	53.54	2.48	74.0	20.46	Peak	76.10	Horizontal	Pass
4**	11240.500	42.97	2.48	54.0	11.03	AV	76.10	Horizontal	Pass
5	14491.000	57.67	6.34	74.0	16.33	Peak	199.30	Horizontal	Pass
5**	14491.000	46.77	6.34	54.0	7.23	AV	199.30	Horizontal	Pass
6	17914.751	57.96	7.13	74.0	16.04	Peak	312.80	Horizontal	Pass
6**	17914.751	47.50	7.13	54.0	6.50	AV	312.80	Horizontal	Pass



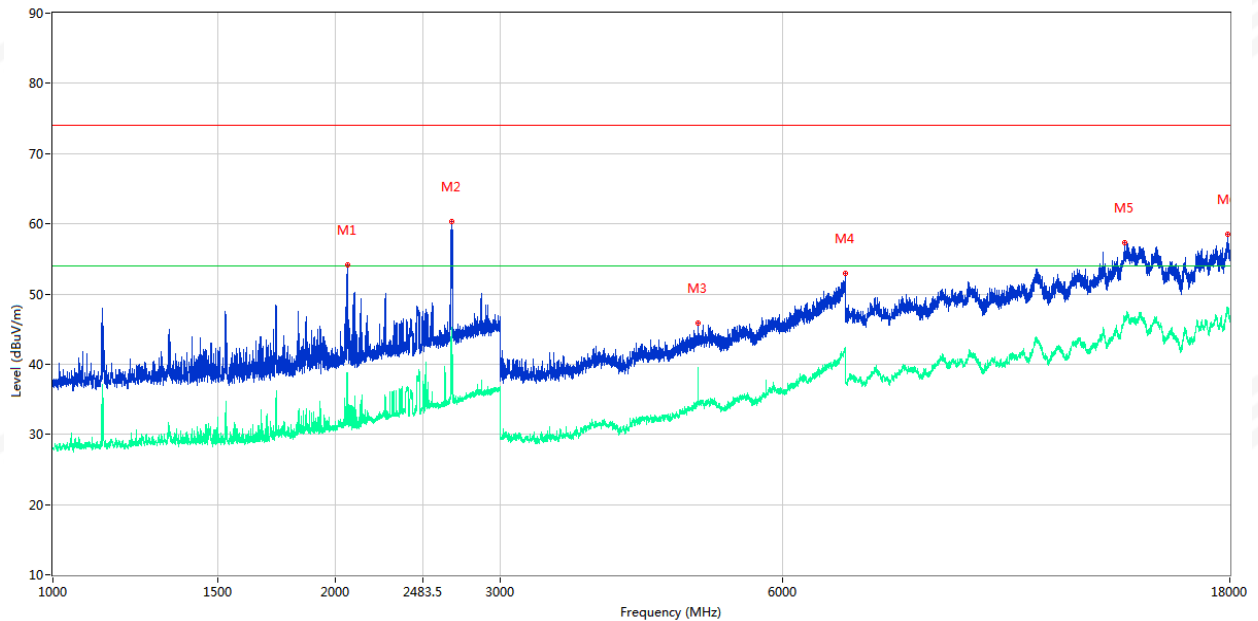
18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	23808.000	47.88	4.44	52.32	74.00	-21.68	peak
2	23808.000	37.45	4.44	41.89	54.00	-12.11	AVG

Vertical
1GHz-18GHz

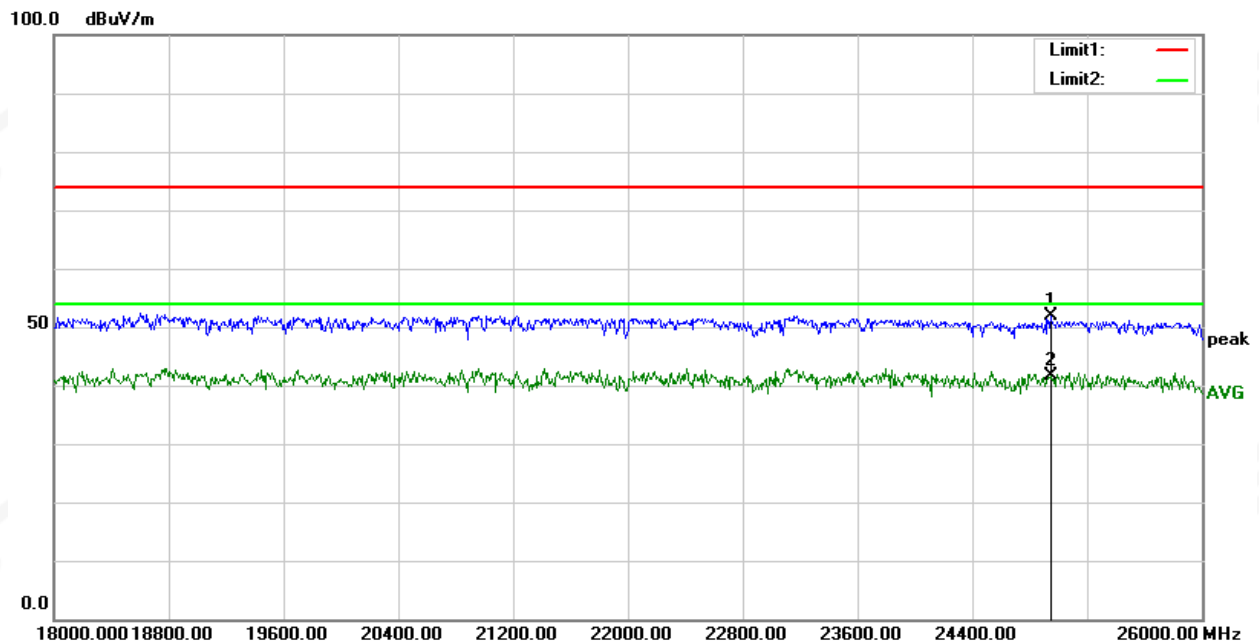
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2063.000	54.13	0.83	74.0	19.87	Peak	114.20	Vertical	Pass
1**	2063.000	38.25	0.83	54.0	15.75	AV	114.20	Vertical	Pass
2	2661.500	60.25	3.98	74.0	13.75	Peak	308.70	Vertical	Pass
2**	2661.500	45.26	3.98	54.0	8.74	AV	308.70	Vertical	Pass
3	4881.000	45.82	-6.28	74.0	28.18	Peak	346.60	Vertical	Pass
3**	4881.000	36.75	-6.28	54.0	17.25	AV	346.60	Vertical	Pass
4	6998.000	52.88	1.30	74.0	21.12	Peak	314.20	Vertical	Pass
4**	6998.000	41.83	1.30	54.0	12.17	AV	314.20	Vertical	Pass
5	13910.750	57.30	7.33	74.0	16.70	Peak	279.20	Vertical	Pass
5**	13910.750	46.07	7.33	54.0	7.93	AV	279.20	Vertical	Pass
6	17903.749	58.50	7.21	74.0	15.50	Peak	130.80	Vertical	Pass
6**	17903.749	48.12	7.21	54.0	5.88	AV	130.80	Vertical	Pass



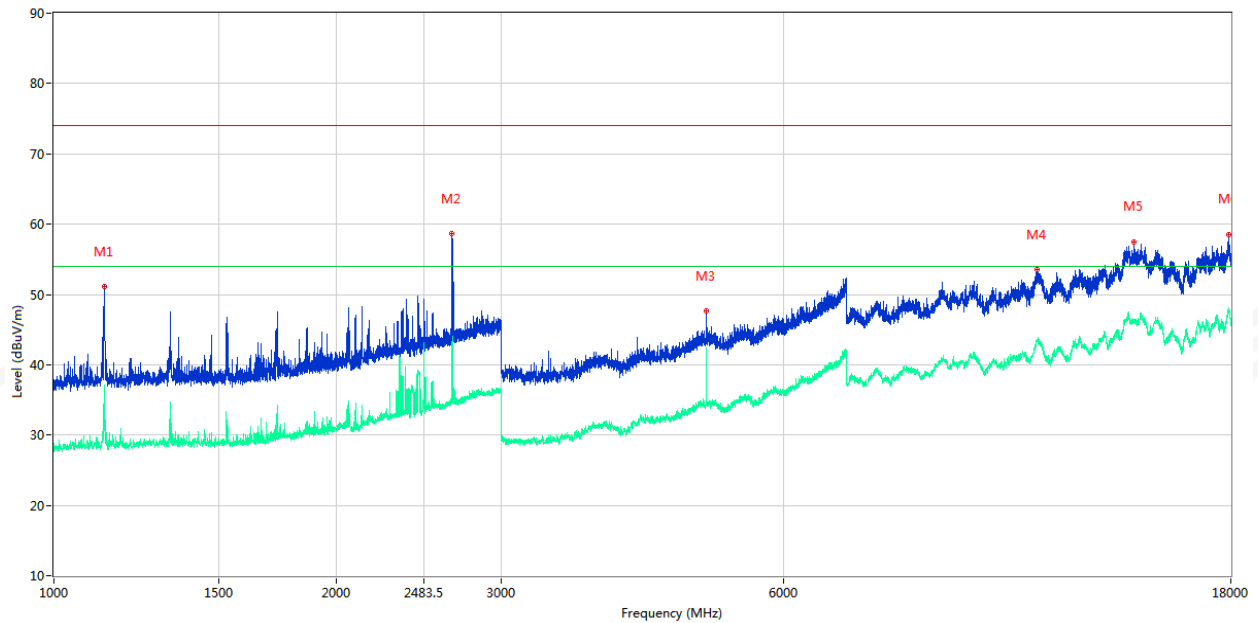
18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	24944.000	46.77	5.23	52.00	74.00	-22.00	peak
2	24944.000	36.29	5.23	41.52	54.00	-12.48	AVG

High Channel
Horizontal
1GHz-18GHz

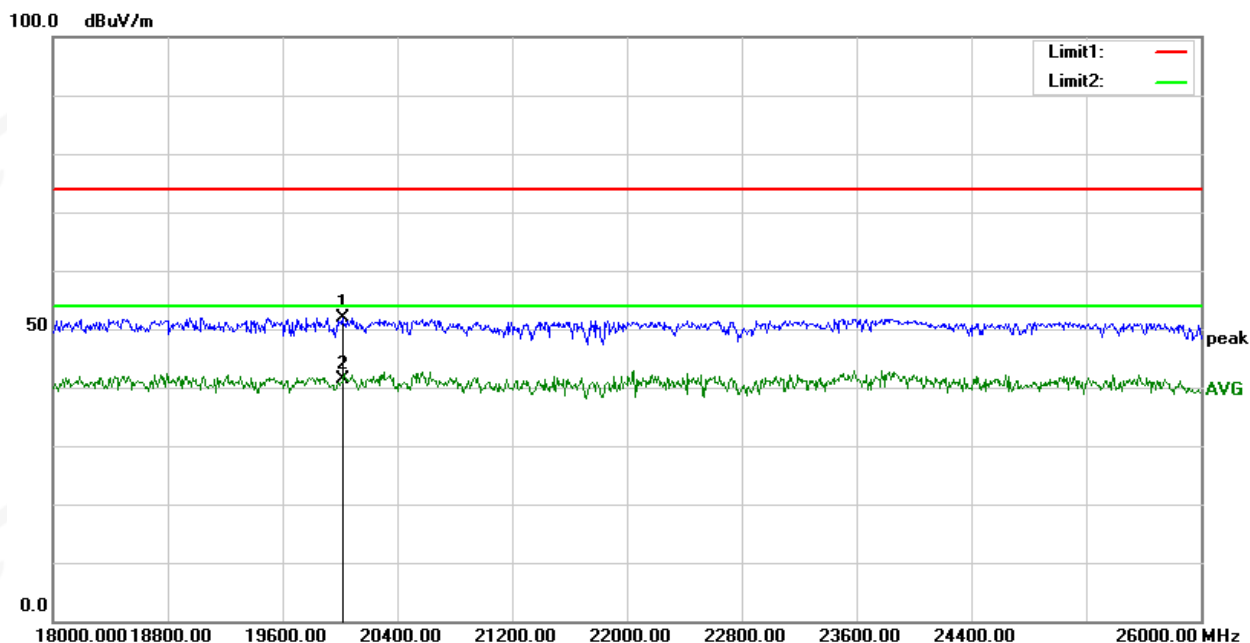
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1131.000	51.09	-1.71	74.0	22.91	Peak	91.00	Horizontal	Pass
1**	1131.000	37.05	-1.71	54.0	16.95	AV	91.00	Horizontal	Pass
2	2659.500	58.63	3.98	74.0	15.37	Peak	129.20	Horizontal	Pass
2**	2659.500	43.36	3.98	54.0	10.64	AV	129.20	Horizontal	Pass
3	4960.000	47.71	-5.99	74.0	26.29	Peak	26.30	Horizontal	Pass
3**	4960.000	42.41	-5.99	54.0	11.59	AV	26.30	Horizontal	Pass
4	11182.750	53.54	2.53	74.0	20.46	Peak	50.60	Horizontal	Pass
4**	11182.750	43.62	2.53	54.0	10.38	AV	50.60	Horizontal	Pass
5	14174.750	57.51	6.93	74.0	16.49	Peak	358.10	Horizontal	Pass
5**	14174.750	46.21	6.93	54.0	7.79	AV	358.10	Horizontal	Pass
6	17920.250	58.57	7.08	74.0	15.43	Peak	0.00	Horizontal	Pass
6**	17920.250	47.30	7.08	54.0	6.70	AV	0.00	Horizontal	Pass



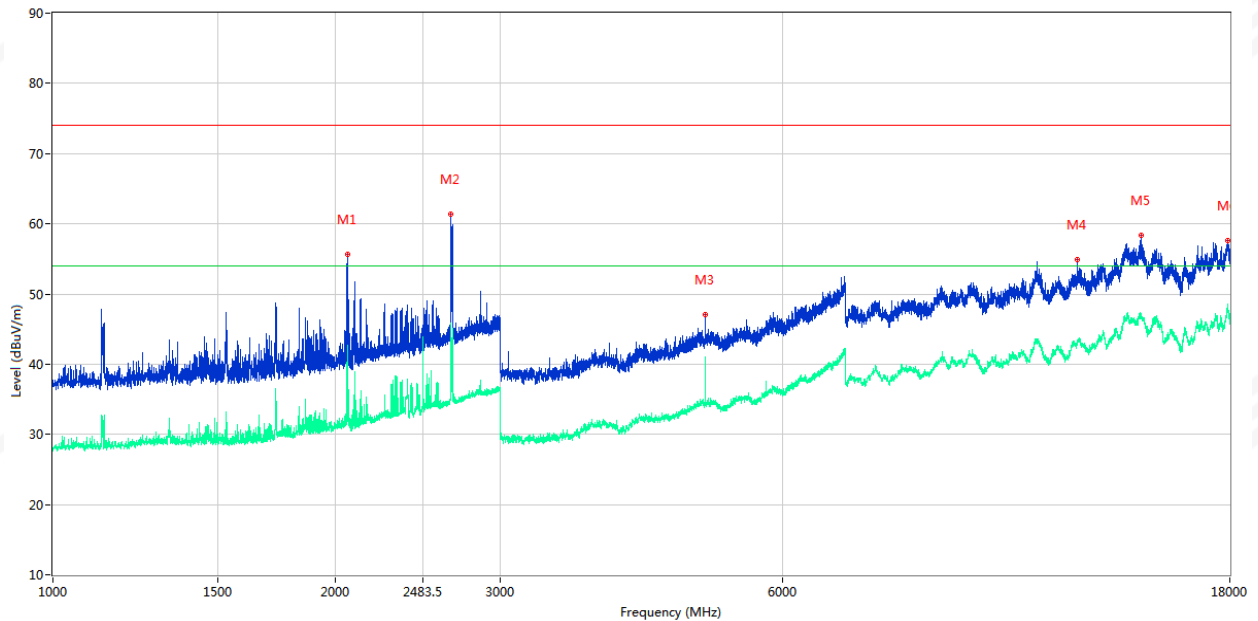
18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20016.000	50.08	1.81	51.89	74.00	-22.11	peak
2	20016.000	39.60	1.81	41.41	54.00	-12.59	AVG

Vertical
1GHz-18GHz

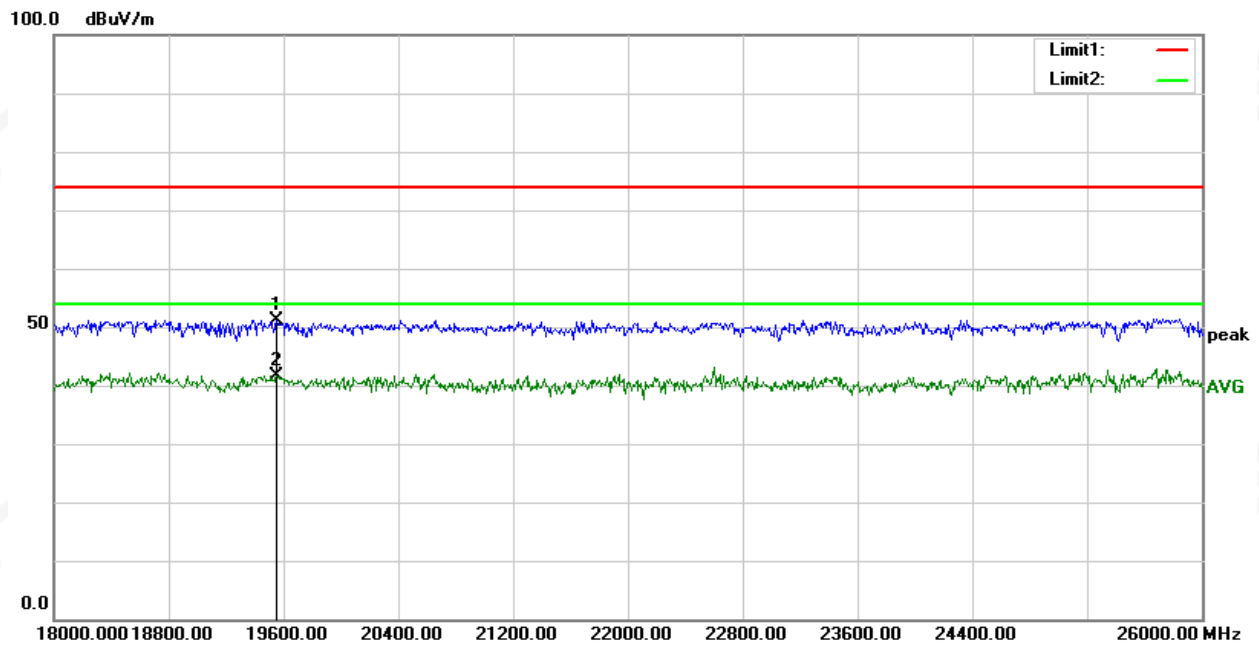
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2063.000	55.67	0.83	74.0	18.33	Peak	107.40	Vertical	Pass
1**	2063.000	42.74	0.83	54.0	11.26	AV	107.40	Vertical	Pass
2	2655.000	61.34	3.98	74.0	12.66	Peak	88.40	Vertical	Pass
2**	2655.000	45.84	3.98	54.0	8.16	AV	88.40	Vertical	Pass
3	4960.000	47.08	-5.99	74.0	26.92	Peak	341.90	Vertical	Pass
3**	4960.000	40.96	-5.99	54.0	13.04	AV	341.90	Vertical	Pass
4	12390.000	54.87	3.16	74.0	19.13	Peak	270.30	Vertical	Pass
4**	12390.000	43.22	3.16	54.0	10.78	AV	270.30	Vertical	Pass
5	14488.250	58.31	6.36	74.0	15.69	Peak	36.60	Vertical	Pass
5**	14488.250	46.42	6.36	54.0	7.58	AV	36.60	Vertical	Pass
6	17898.250	57.63	7.22	74.0	16.37	Peak	236.40	Vertical	Pass
6**	17898.250	48.05	7.22	54.0	5.95	AV	236.40	Vertical	Pass



18GHz-26Hz

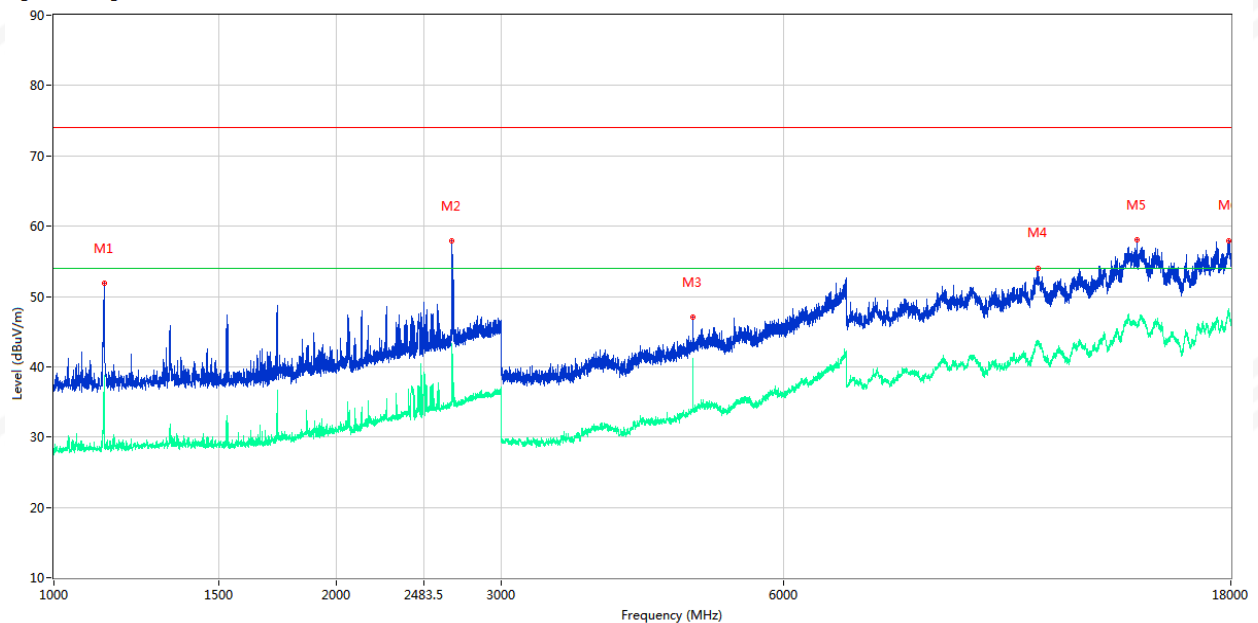


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19552.000	49.69	1.51	51.20	74.00	-22.80	peak
2	19552.000	40.15	1.51	41.66	54.00	-12.34	AVG



2M PHY
Low Channel
Horizontal

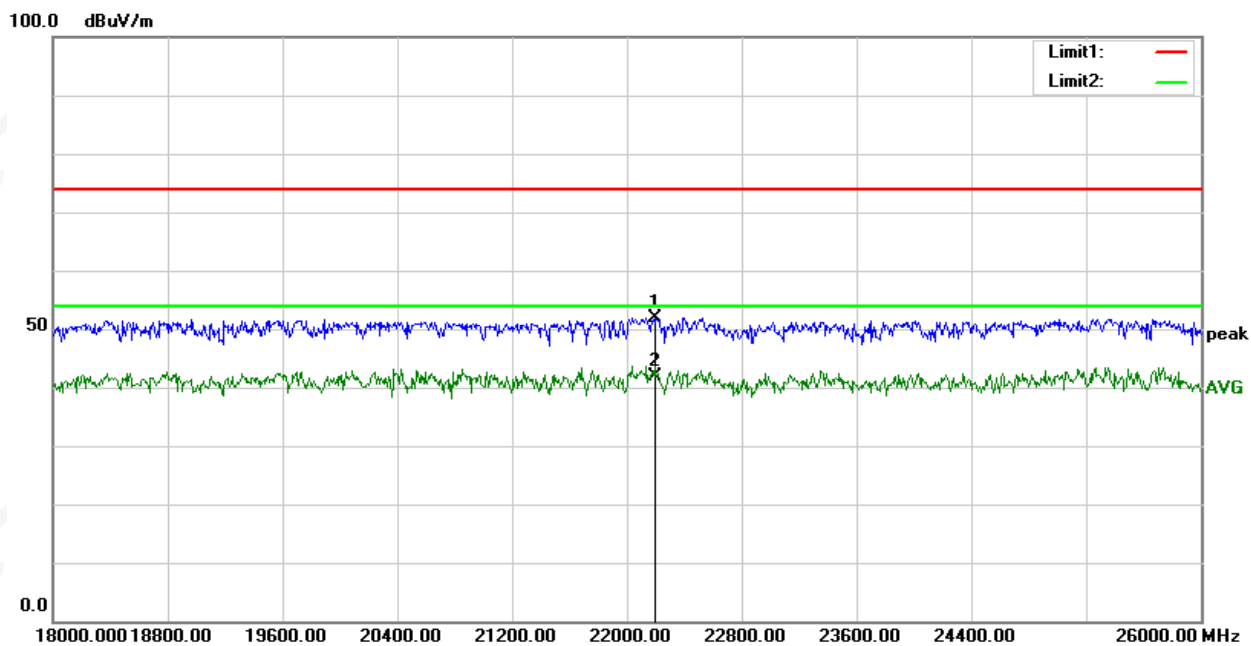
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1131.500	51.82	-1.71	74.0	22.18	Peak	95.00	Horizontal	Pass
1**	1131.500	38.79	-1.71	54.0	15.21	AV	95.00	Horizontal	Pass
2	2659.500	57.86	3.98	74.0	16.14	Peak	127.40	Horizontal	Pass
2**	2659.500	43.33	3.98	54.0	10.67	AV	127.40	Horizontal	Pass
3	4804.000	47.09	-7.11	74.0	26.91	Peak	6.10	Horizontal	Pass
3**	4804.000	41.23	-7.11	54.0	12.77	AV	6.10	Horizontal	Pass
4	11199.250	54.06	2.62	74.0	19.94	Peak	101.50	Horizontal	Pass
4**	11199.250	43.52	2.62	54.0	10.48	AV	101.50	Horizontal	Pass
5	14279.250	58.07	6.90	74.0	15.93	Peak	14.00	Horizontal	Pass
5**	14279.250	45.98	6.90	54.0	8.02	AV	14.00	Horizontal	Pass
6	17903.749	57.97	7.21	74.0	16.03	Peak	6.20	Horizontal	Pass
6**	17903.749	47.68	7.21	54.0	6.32	AV	6.20	Horizontal	Pass



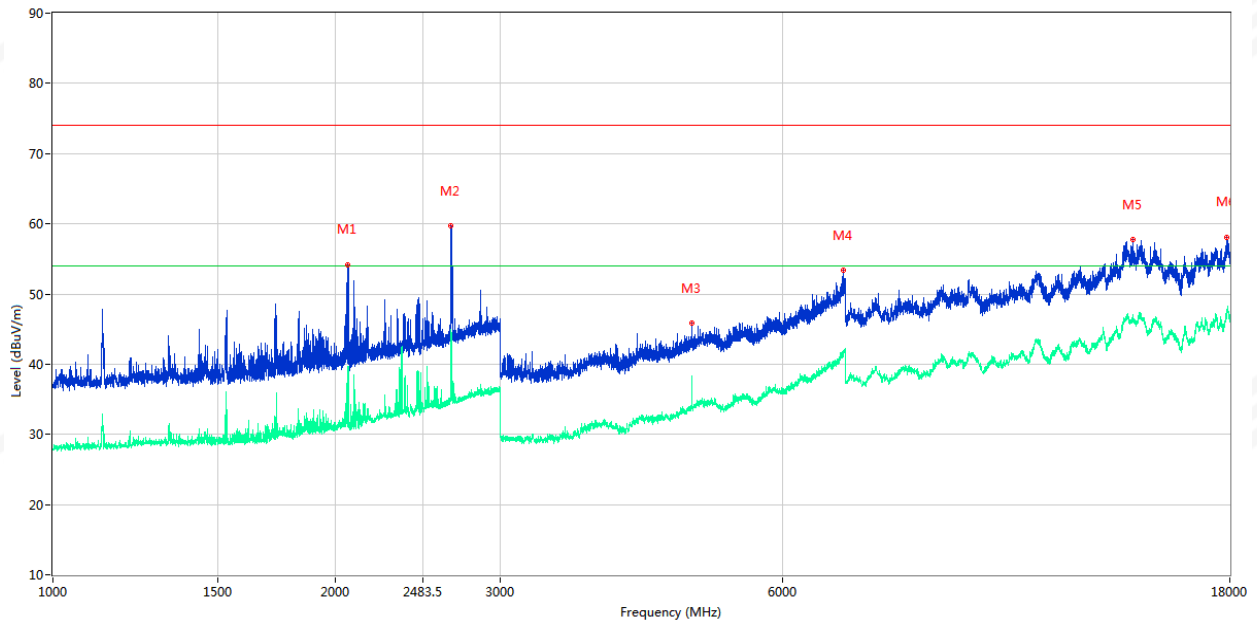
18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/ m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22192.000	48.35	3.61	51.96	74.00	-22.04	peak
2	22192.000	38.37	3.61	41.98	54.00	-12.02	AVG

Vertical
1GHz-18GHz

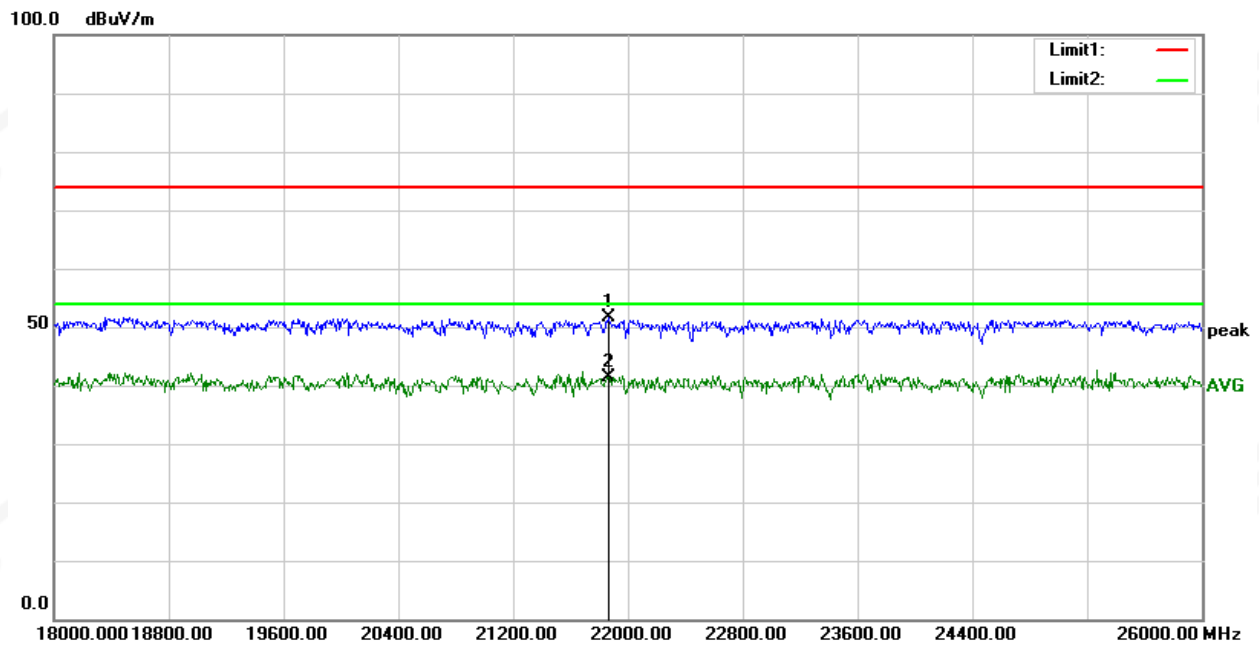
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2060.500	54.21	0.83	74.0	19.79	Peak	112.10	Vertical	Pass
1**	2060.500	39.68	0.83	54.0	14.32	AV	112.10	Vertical	Pass
2	2658.000	59.76	3.98	74.0	14.24	Peak	86.00	Vertical	Pass
2**	2658.000	45.00	3.98	54.0	9.00	AV	86.00	Vertical	Pass
3	4803.000	45.81	-7.12	74.0	28.19	Peak	123.30	Vertical	Pass
3**	4803.000	38.29	-7.12	54.0	15.71	AV	123.30	Vertical	Pass
4	6973.000	53.33	1.10	74.0	20.67	Peak	5.40	Vertical	Pass
4**	6973.000	41.97	1.10	54.0	12.03	AV	5.40	Vertical	Pass
5	14183.000	57.71	6.94	74.0	16.29	Peak	131.90	Vertical	Pass
5**	14183.000	47.04	6.94	54.0	6.96	AV	131.90	Vertical	Pass
6	17873.500	58.13	7.01	74.0	15.87	Peak	52.70	Vertical	Pass
6**	17873.500	47.52	7.01	54.0	6.48	AV	52.70	Vertical	Pass



18GHz-26Hz

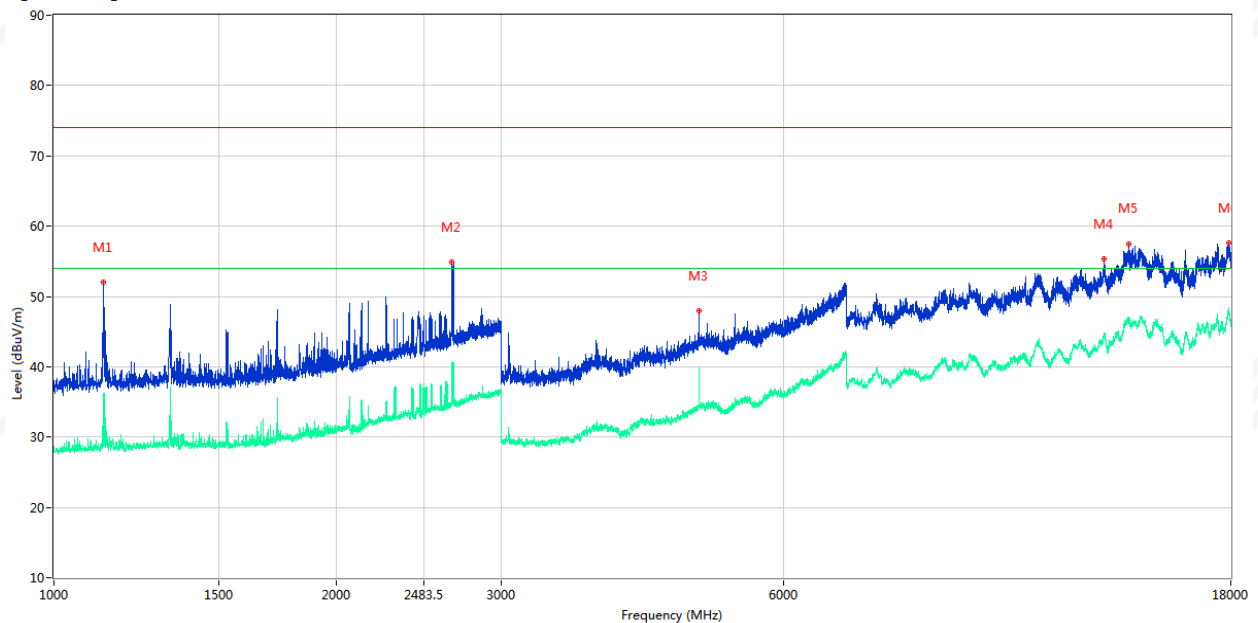


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	21864.000	48.37	3.29	51.66	74.00	-22.34	peak
2	21864.000	38.13	3.29	41.42	54.00	-12.58	AVG



Mid Channel
Horizontal
1GHz-18GHz

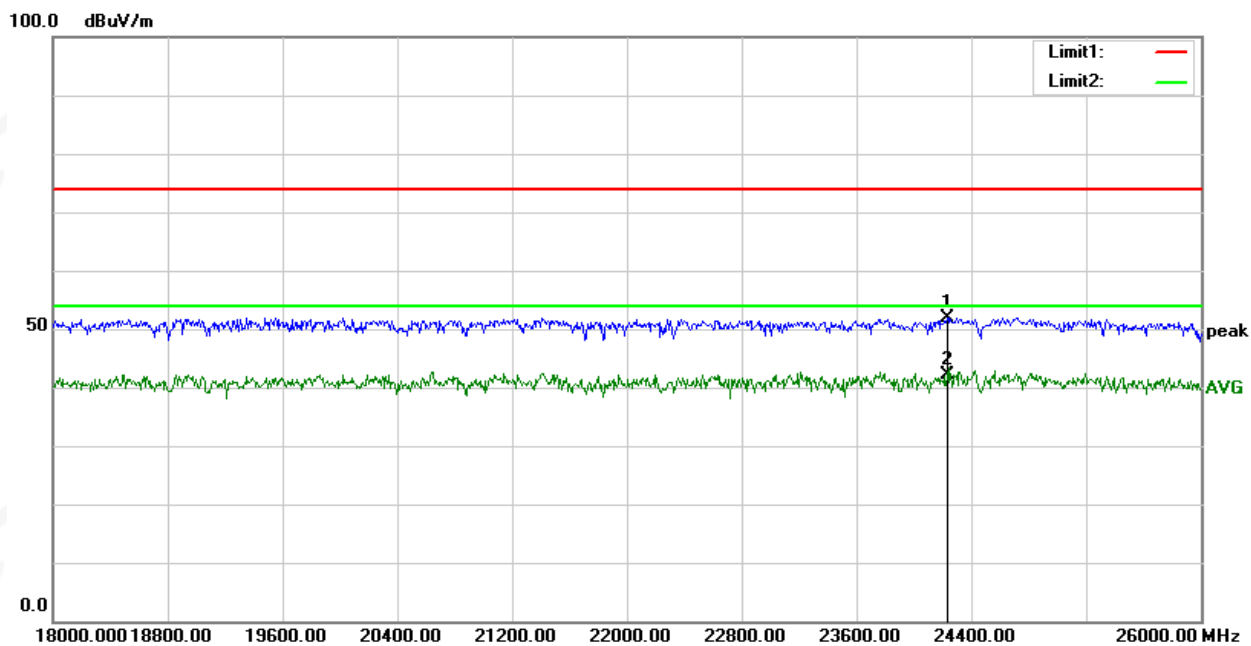
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1130.000	51.98	-1.71	74.0	22.02	Peak	89.90	Horizontal	Pass
1**	1130.000	36.27	-1.71	54.0	17.73	AV	89.90	Horizontal	Pass
2	2657.500	54.93	3.98	74.0	19.07	Peak	272.60	Horizontal	Pass
2**	2657.500	40.58	3.98	54.0	13.42	AV	272.60	Horizontal	Pass
3	4879.000	48.01	-6.30	74.0	25.99	Peak	358.30	Horizontal	Pass
3**	4879.000	39.90	-6.30	54.0	14.10	AV	358.30	Horizontal	Pass
4	13184.750	55.27	5.29	74.0	18.73	Peak	221.60	Horizontal	Pass
4**	13184.750	44.22	5.29	54.0	9.78	AV	221.60	Horizontal	Pass
5	14009.750	57.52	8.29	74.0	16.48	Peak	51.90	Horizontal	Pass
5**	14009.750	46.91	8.29	54.0	7.09	AV	51.90	Horizontal	Pass
6	17898.250	57.63	7.22	74.0	16.37	Peak	13.20	Horizontal	Pass
6**	17898.250	47.79	7.22	54.0	6.21	AV	13.20	Horizontal	Pass



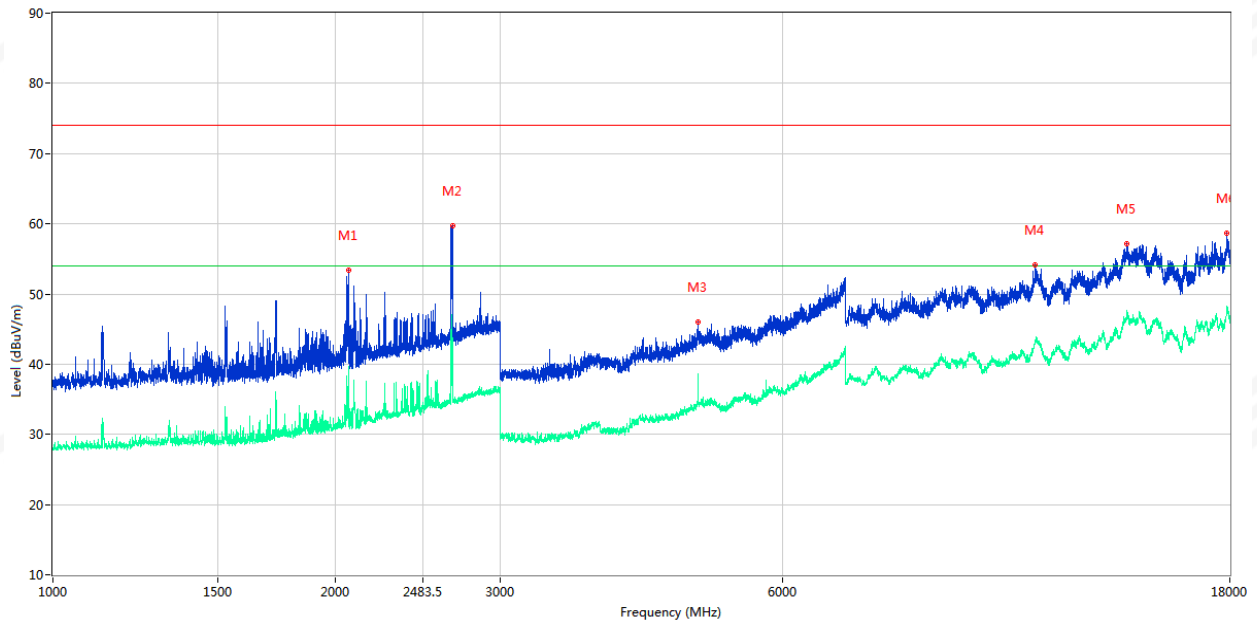
18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	24232.000	47.31	4.67	51.98	74.00	-22.02	peak
2	24232.000	37.37	4.67	42.04	54.00	-11.96	AVG

Vertical
1GHz-18GHz

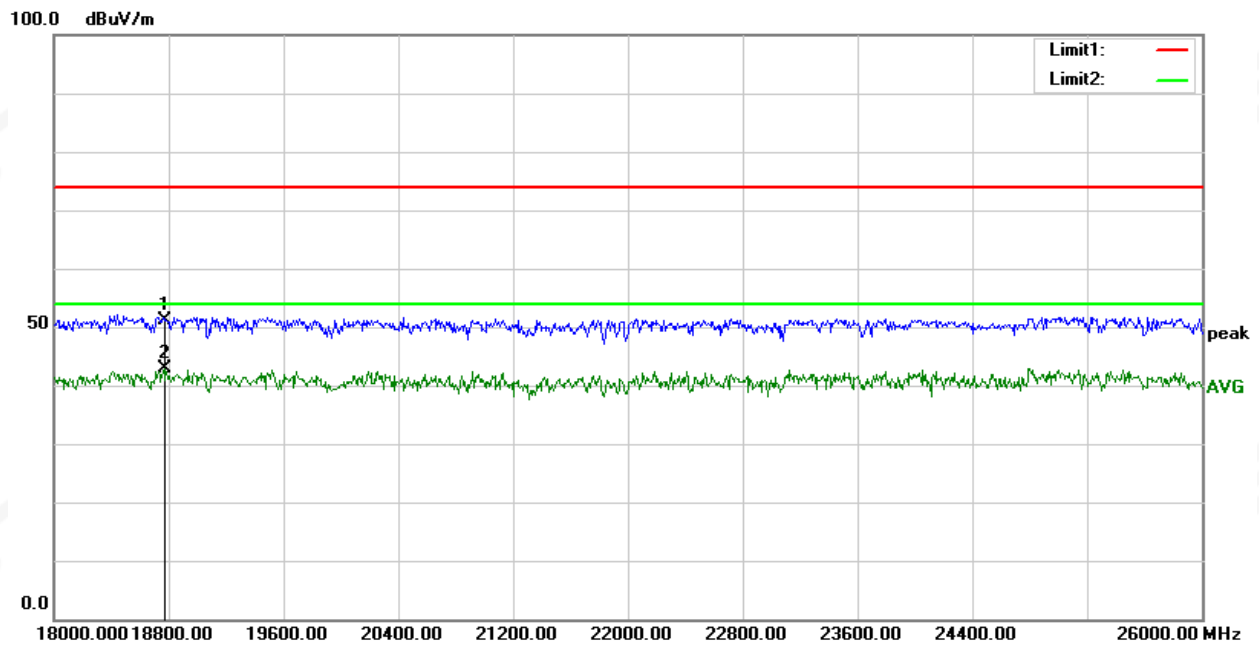
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2066.000	53.42	0.83	74.0	20.58	Peak	111.10	Vertical	Pass
1**	2066.000	36.56	0.83	54.0	17.44	AV	111.10	Vertical	Pass
2	2667.000	59.75	3.98	74.0	14.25	Peak	100.70	Vertical	Pass
2**	2667.000	43.72	3.98	54.0	10.28	AV	100.70	Vertical	Pass
3	4879.000	45.97	-6.30	74.0	28.03	Peak	342.90	Vertical	Pass
3**	4879.000	38.02	-6.30	54.0	15.98	AV	342.90	Vertical	Pass
4	11155.250	54.07	2.38	74.0	19.93	Peak	358.60	Vertical	Pass
4**	11155.250	43.18	2.38	54.0	10.82	AV	358.60	Vertical	Pass
5	13976.750	57.11	8.16	74.0	16.89	Peak	94.10	Vertical	Pass
5**	13976.750	46.75	8.16	54.0	7.25	AV	94.10	Vertical	Pass
6	17884.500	58.68	7.11	74.0	15.32	Peak	146.20	Vertical	Pass
6**	17884.500	47.47	7.11	54.0	6.53	AV	146.20	Vertical	Pass



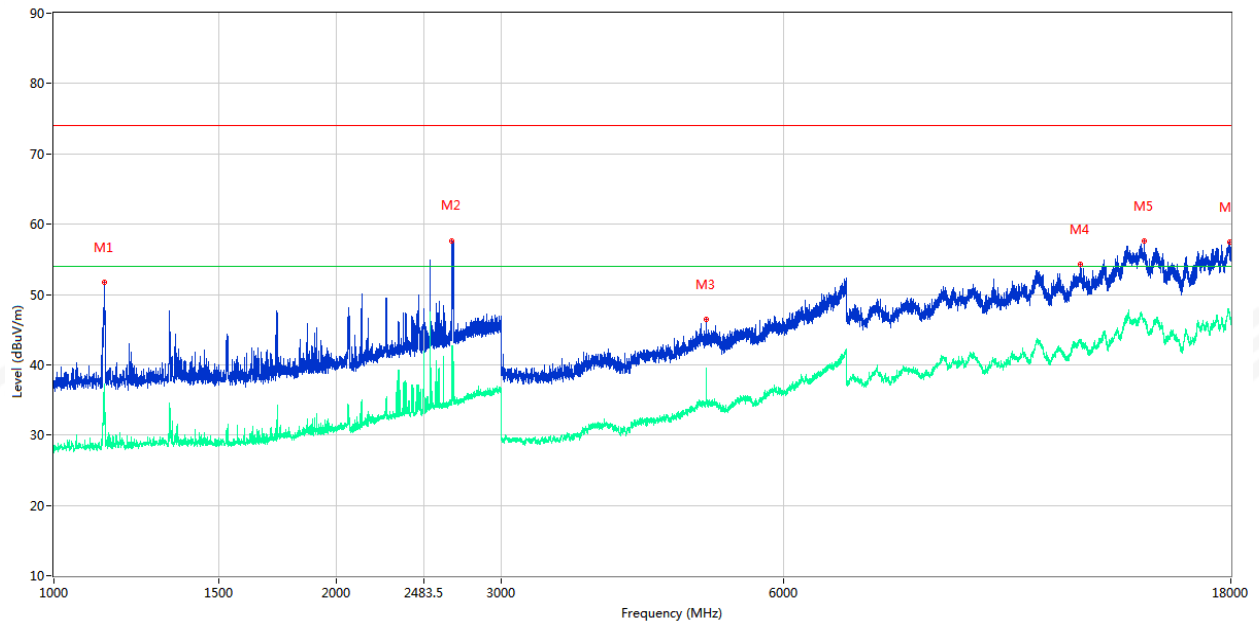
18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18768.000	49.13	1.98	51.11	74.00	-22.89	peak
2	18768.000	40.84	1.98	42.82	54.00	-11.18	AVG

High Channel
Horizontal
1GHz-18GHz

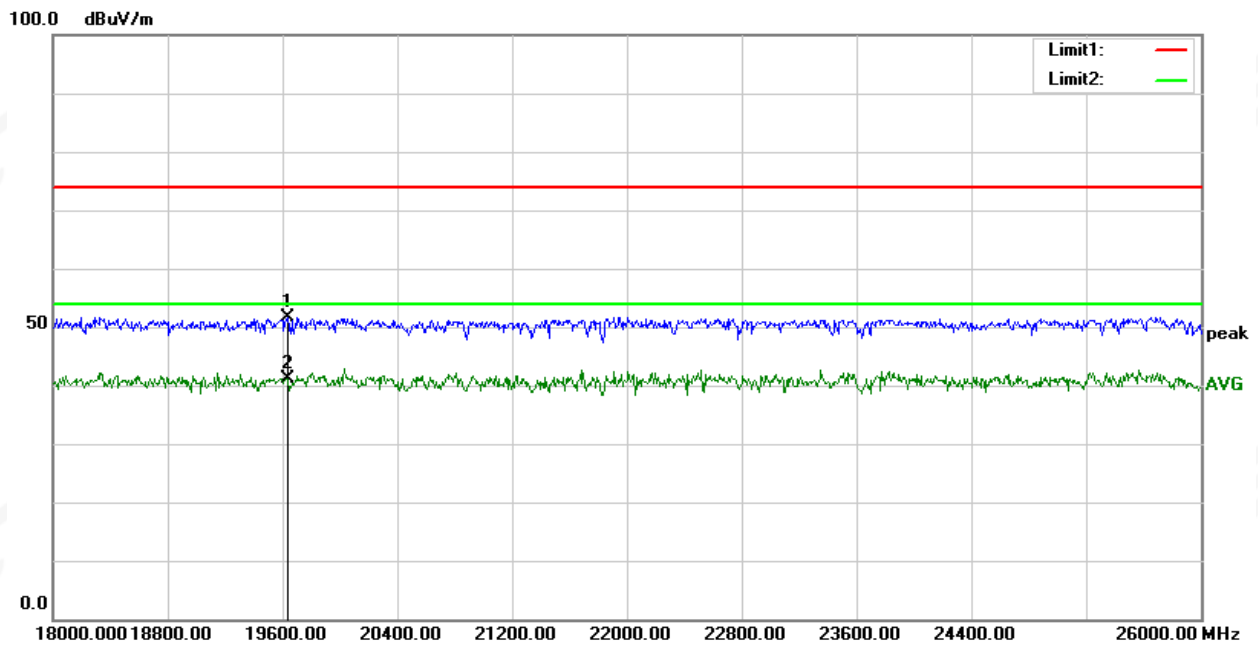
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1131.500	51.73	-1.71	74.0	22.27	Peak	96.20	Horizontal	Pass
1**	1131.500	37.30	-1.71	54.0	16.70	AV	96.20	Horizontal	Pass
2	2657.000	57.68	3.98	74.0	16.32	Peak	131.20	Horizontal	Pass
2**	2657.000	42.68	3.98	54.0	11.32	AV	131.20	Horizontal	Pass
3	4960.000	46.50	-5.99	74.0	27.50	Peak	134.20	Horizontal	Pass
3**	4960.000	39.46	-5.99	54.0	14.54	AV	134.20	Horizontal	Pass
4	12428.500	54.27	2.89	74.0	19.73	Peak	94.80	Horizontal	Pass
4**	12428.500	43.02	2.89	54.0	10.98	AV	94.80	Horizontal	Pass
5	14557.000	57.61	6.30	74.0	16.39	Peak	159.80	Horizontal	Pass
5**	14557.000	46.39	6.30	54.0	7.61	AV	159.80	Horizontal	Pass
6	17939.499	57.42	6.94	74.0	16.58	Peak	41.70	Horizontal	Pass
6**	17939.499	47.07	6.94	54.0	6.93	AV	41.70	Horizontal	Pass



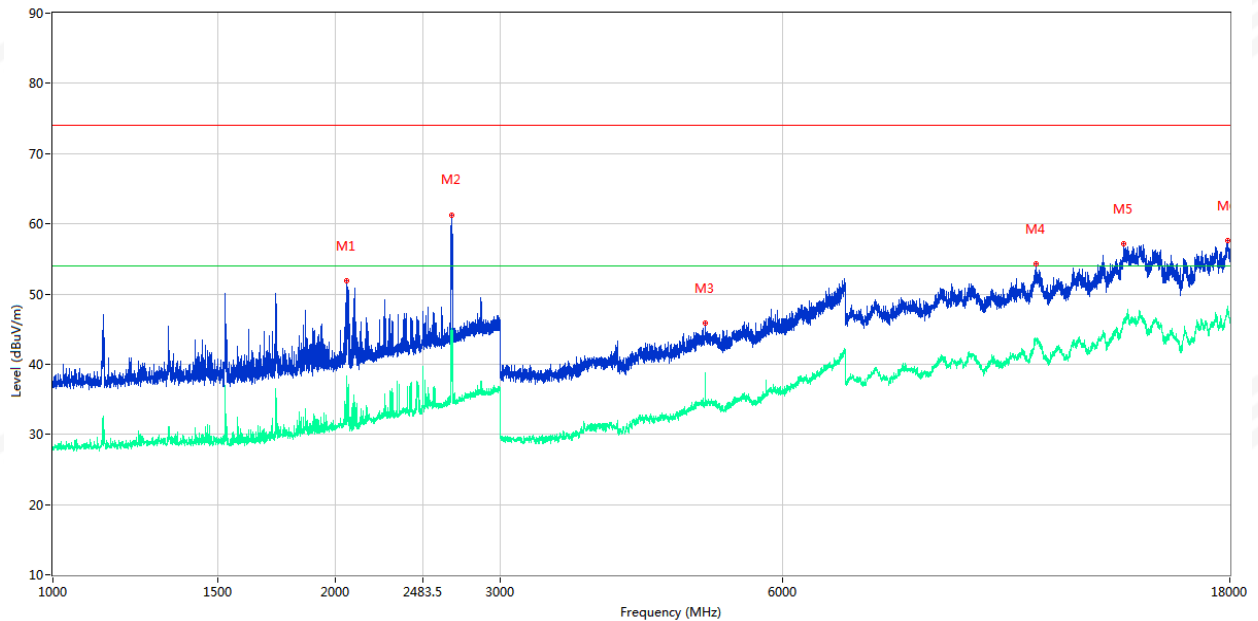
18GHz-26Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19640.000	50.14	1.56	51.70	74.00	-22.30	peak
2	19640.000	39.53	1.56	41.09	54.00	-12.91	AVG

Vertical
1GHz-18GHz

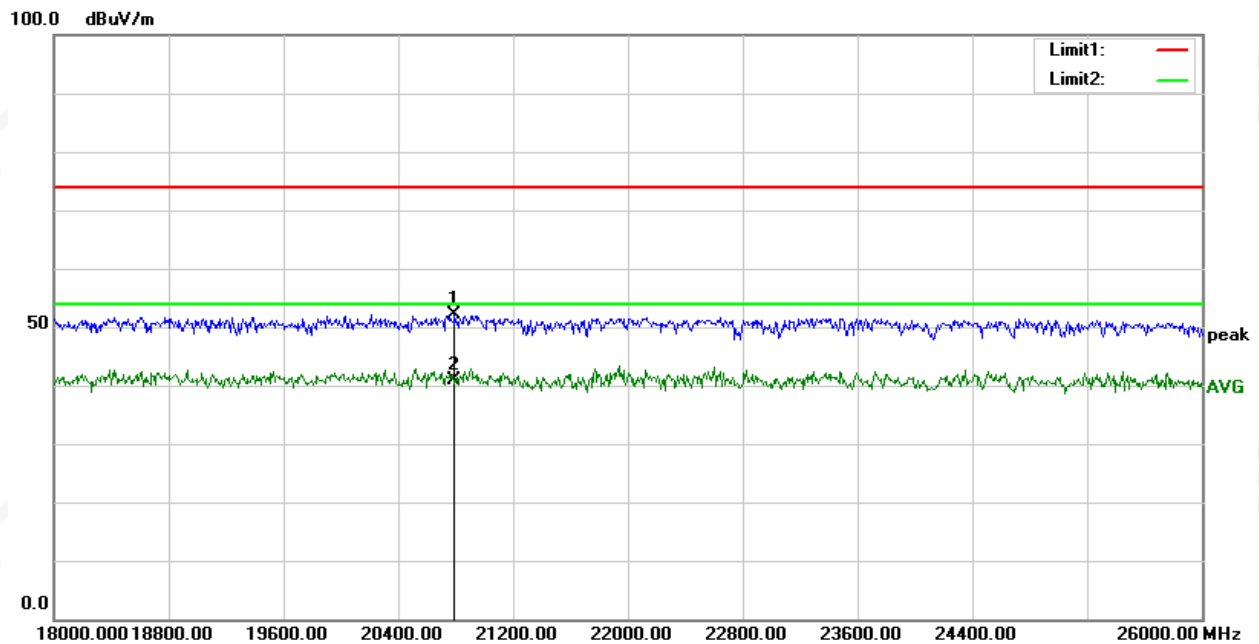
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2058.000	51.87	0.82	74.0	22.13	Peak	98.80	Vertical	Pass
1**	2058.000	33.89	0.82	54.0	20.11	AV	98.80	Vertical	Pass
2	2664.000	61.29	3.98	74.0	12.71	Peak	86.10	Vertical	Pass
2**	2664.000	45.18	3.98	54.0	8.82	AV	86.10	Vertical	Pass
3	4959.000	45.88	-5.99	74.0	28.12	Peak	343.00	Vertical	Pass
3**	4959.000	38.81	-5.99	54.0	15.19	AV	343.00	Vertical	Pass
4	11180.000	54.28	2.51	74.0	19.72	Peak	221.90	Vertical	Pass
4**	11180.000	43.23	2.51	54.0	10.77	AV	221.90	Vertical	Pass
5	13869.500	57.17	6.75	74.0	16.83	Peak	90.20	Vertical	Pass
5**	13869.500	45.96	6.75	54.0	8.04	AV	90.20	Vertical	Pass
6	17925.751	57.59	7.04	74.0	16.41	Peak	226.00	Vertical	Pass
6**	17925.751	47.28	7.04	54.0	6.72	AV	226.00	Vertical	Pass



18GHz-26Hz



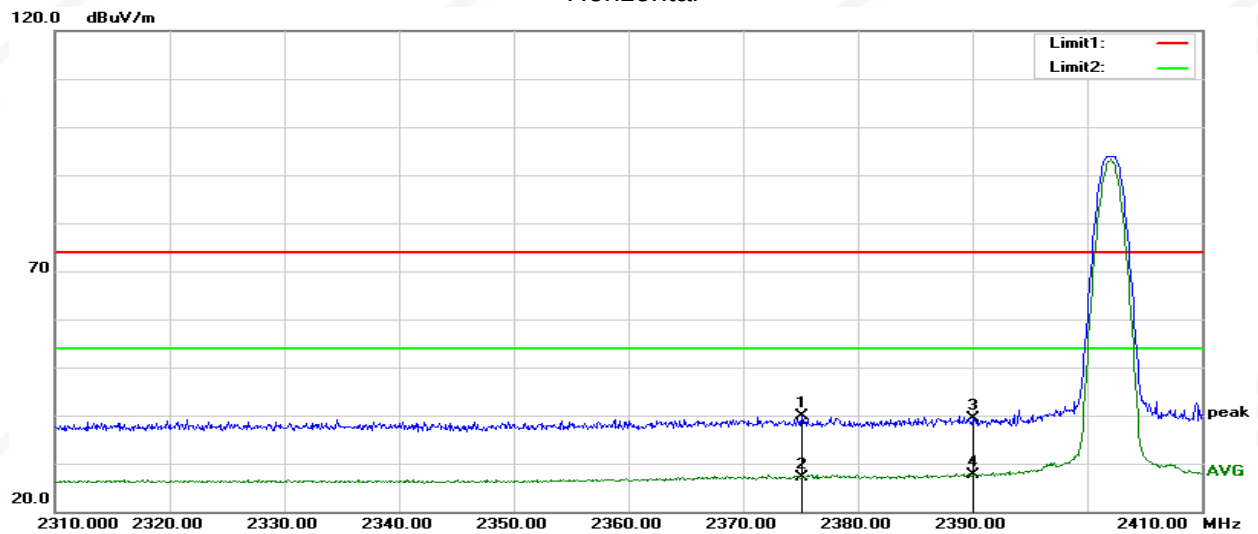
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20792.000	49.65	2.48	52.13	74.00	-21.87	peak
2	20792.000	38.30	2.48	40.78	54.00	-13.22	AVG

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.

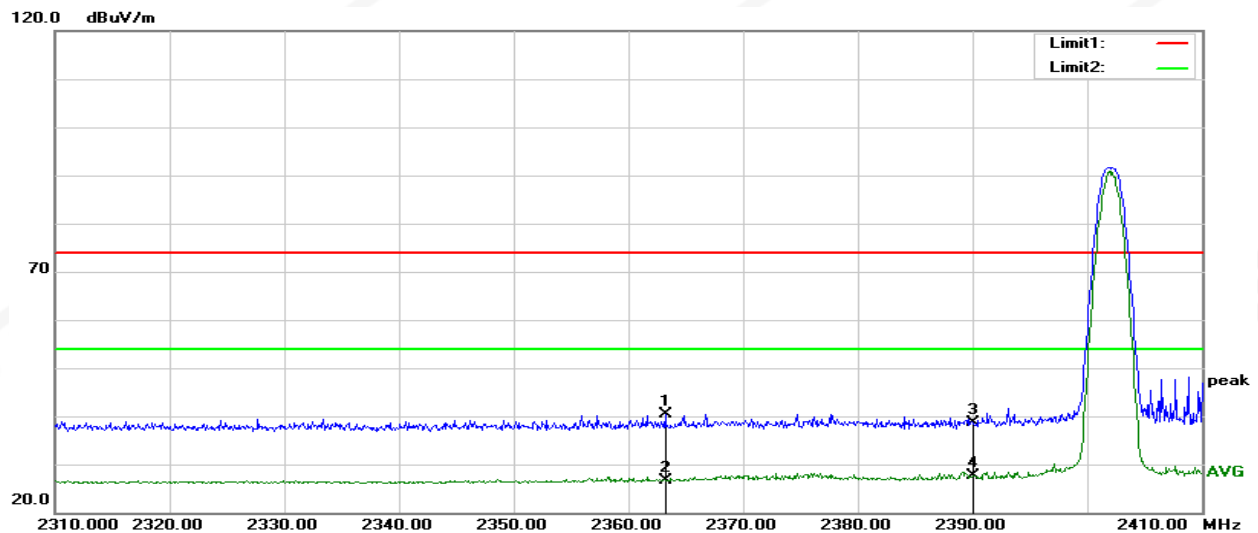


4.6 TEST RESULTS (Restricted Bands Requirements)

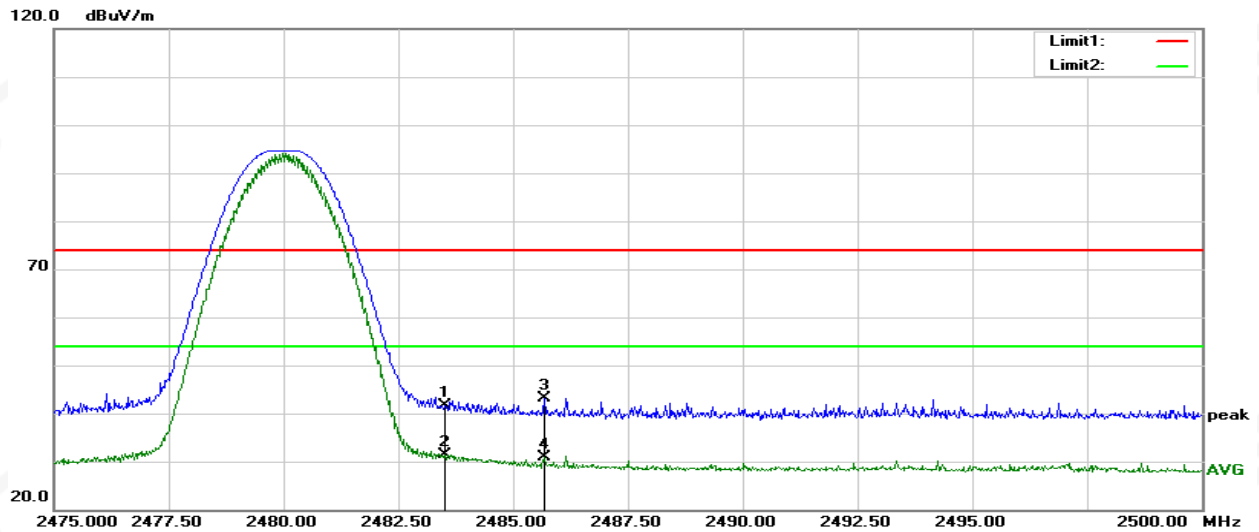
1M PHY-LOW
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2375.100	39.18	0.70	39.88	74.00	-34.12	peak
2	2375.100	26.44	0.70	27.14	54.00	-26.86	AVG
3	2390.000	38.61	0.81	39.42	74.00	-34.58	peak
4	2390.000	26.79	0.81	27.60	54.00	-26.40	AVG

Vertical

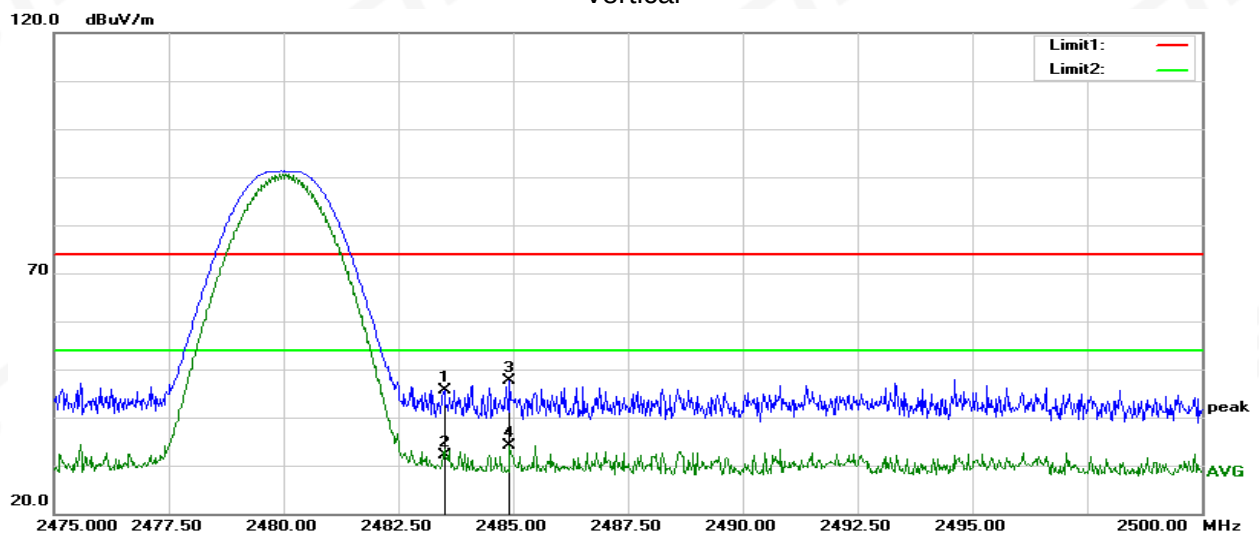


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2363.200	39.87	0.61	40.48	74.00	-33.52	peak
2	2363.200	26.02	0.61	26.63	54.00	-27.37	AVG
3	2390.000	37.89	0.81	38.70	74.00	-35.30	peak
4	2390.000	26.74	0.81	27.55	54.00	-26.45	AVG

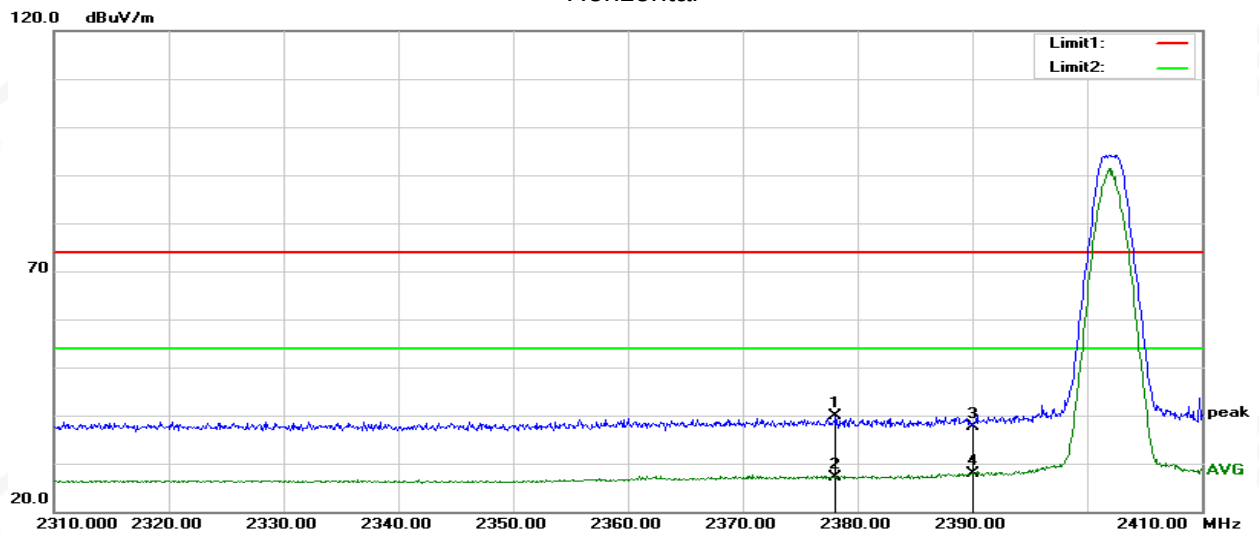
1M PHY-HIGH
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	40.64	1.02	41.66	74.00	-32.34	peak
2	2483.525	30.26	1.02	31.28	54.00	-22.72	AVG
3	2485.675	42.18	1.02	43.20	74.00	-30.80	peak
4	2485.675	29.97	1.02	30.99	54.00	-23.01	AVG

Vertical

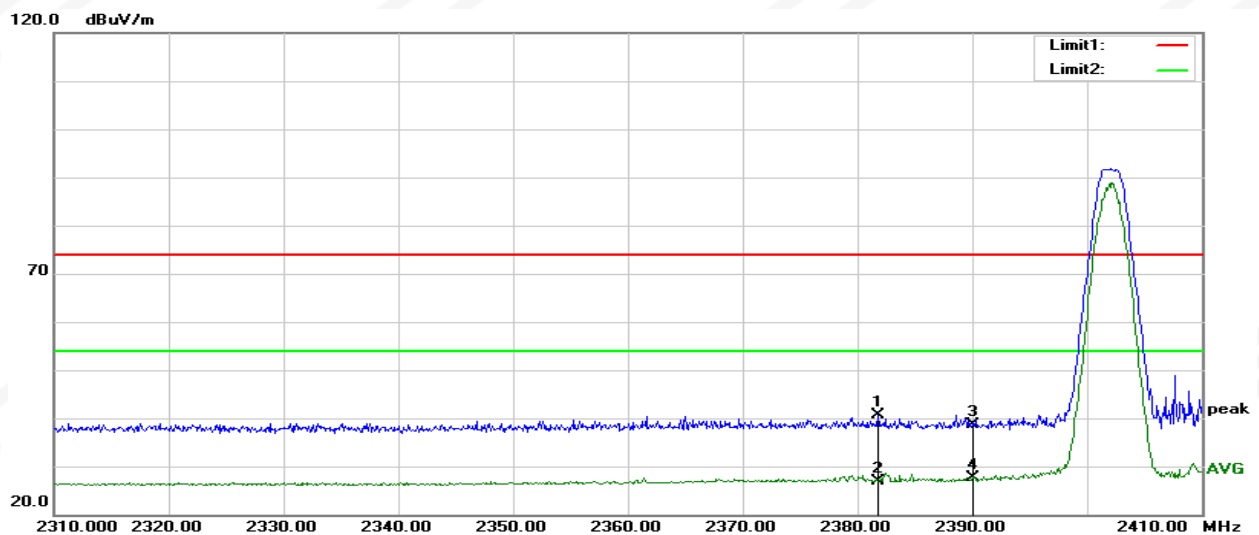


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	44.63	1.02	45.65	74.00	-28.35	peak
2	2483.500	31.13	1.02	32.15	54.00	-21.85	AVG
3	2484.925	46.65	1.03	47.68	74.00	-26.32	peak
4	2484.925	33.06	1.03	34.09	54.00	-19.91	AVG

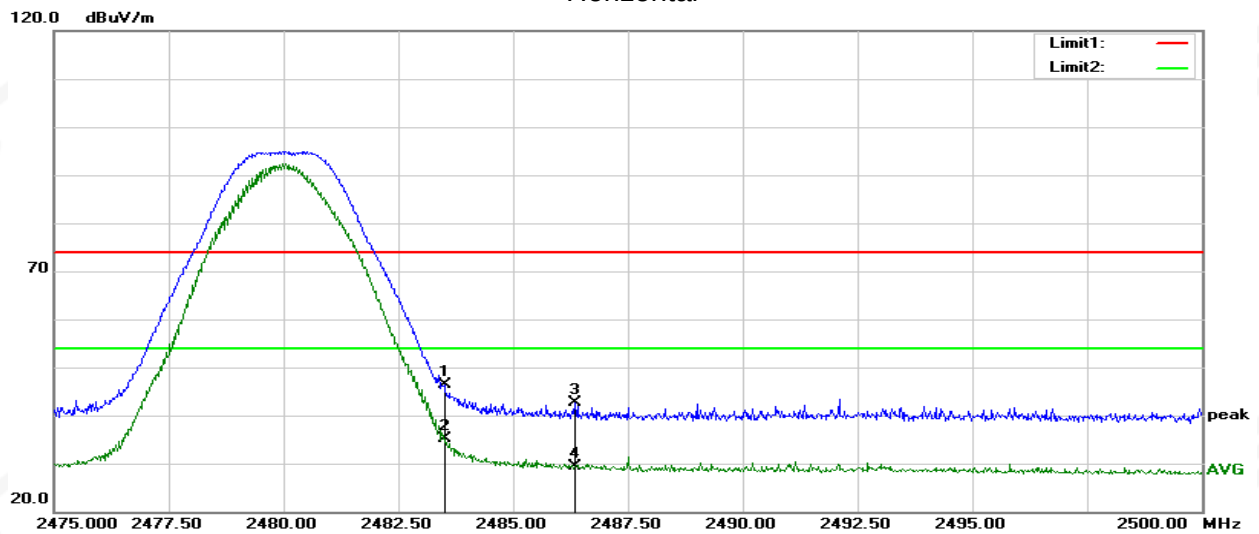
2M PHY-LOW
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2378.100	39.26	0.72	39.98	74.00	-34.02	peak
2	2378.100	26.51	0.72	27.23	54.00	-26.77	AVG
3	2390.000	36.76	0.81	37.57	74.00	-36.43	peak
4	2390.000	27.17	0.81	27.98	54.00	-26.02	AVG

Vertical

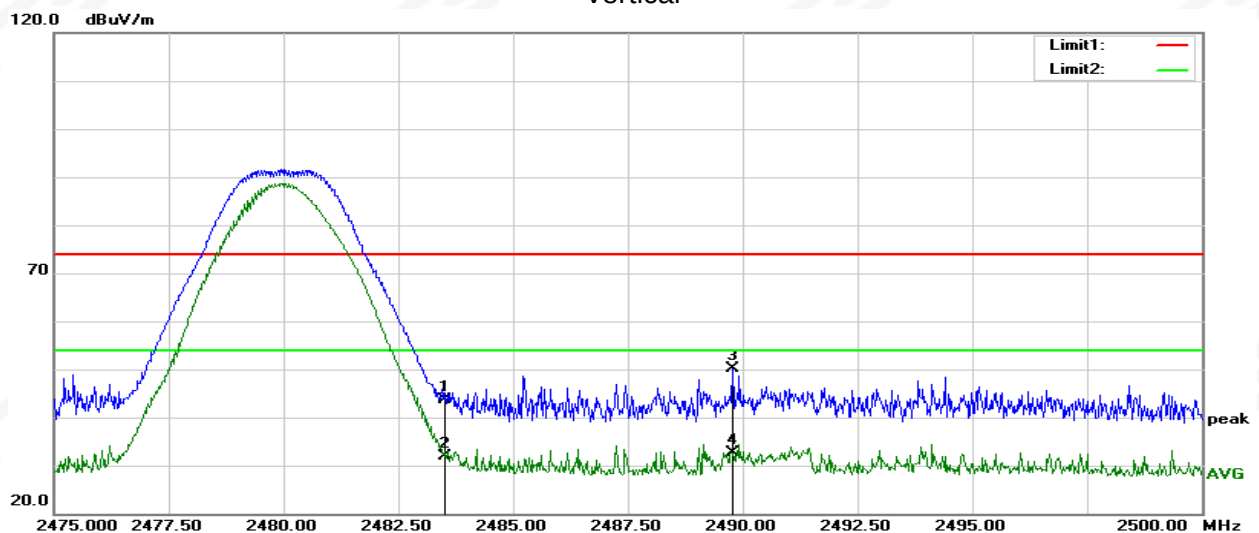


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2381.800	39.82	0.75	40.57	74.00	-33.43	peak
2	2381.800	26.06	0.75	26.81	54.00	-27.19	AVG
3	2390.000	37.78	0.81	38.59	74.00	-35.41	peak
4	2390.000	26.93	0.81	27.74	54.00	-26.26	AVG

2M PHY-HIGH
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	45.42	1.02	46.44	74.00	-27.56	peak
2	2483.500	34.01	1.02	35.03	54.00	-18.97	AVG
3	2486.350	41.63	1.02	42.65	74.00	-31.35	peak
4	2486.350	28.38	1.02	29.40	54.00	-24.60	AVG

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	42.65	1.02	43.67	74.00	-30.33	peak
2	2483.500	30.74	1.02	31.76	54.00	-22.24	AVG
3	2489.775	49.10	1.04	50.14	74.00	-23.86	peak
4	2489.775	31.61	1.04	32.65	54.00	-21.35	AVG

5. DUTY CYCLE

5.1 TEST STANDARD

Please refer to ANSI C63.10-2020 Section 11.6

5.2 TEST PROCEDURE

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

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 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.

5.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

6. CONDUCTED SPURIOUS & BAND EDGE EMISSION

6.1 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.

6.2 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

6.3 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminals 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.

6.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

6.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



7. POWER SPECTRAL DENSITY TEST

7.1 LIMIT

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

7.2 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: $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
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.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

7.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



8. BANDWIDTH TEST

8.1 LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

8.2 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 $\geq 3\text{RBW}$, 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.

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. PEAK OUTPUT POWER TEST

9.1 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

9.2 TEST PROCEDURE

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

RBW $\geq$ 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:

- Set the RBW $\geq$ DTS bandwidth.
- Set VBW $\geq$ [3 $\times$ RBW].
- Set span $\geq$ [3 $\times$ RBW].
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

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. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

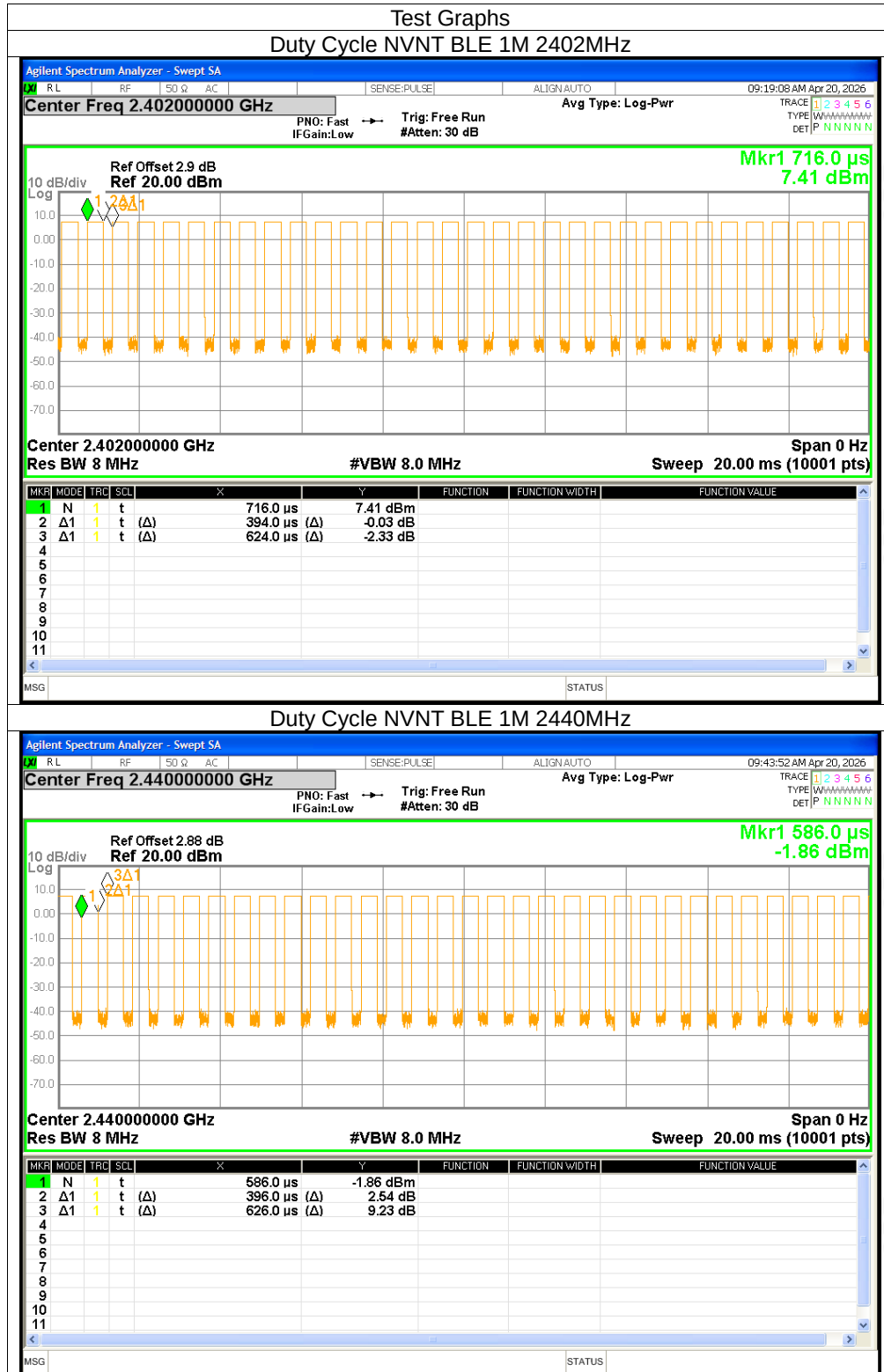
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

10.2 EUT ANTENNA

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

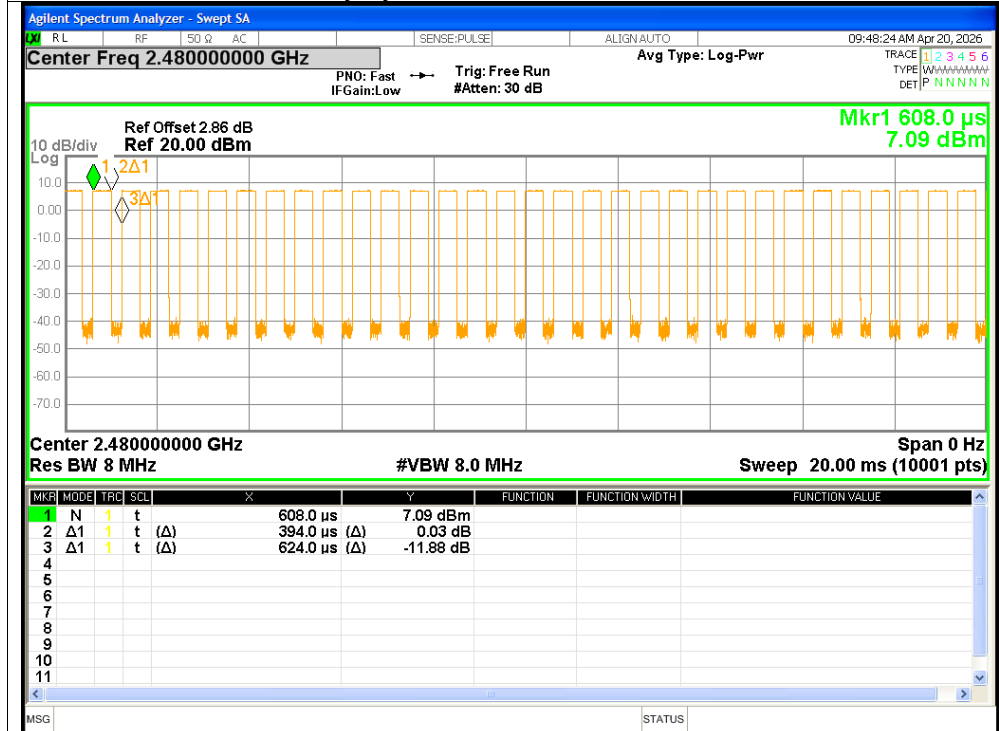
**APPENDIX 1-TEST DATA****Duty Cycle**

Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	0.394	0.624	63.14	2	2.54
NVNT	BLE 1M	2440	0.396	0.626	63.26	1.99	2.53
NVNT	BLE 1M	2480	0.394	0.624	63.14	2	2.54
NVNT	BLE 2M	2402	0.21	0.626	33.55	4.74	4.76
NVNT	BLE 2M	2440	0.21	0.626	33.55	4.74	4.76
NVNT	BLE 2M	2480	0.208	0.624	33.33	4.77	4.81

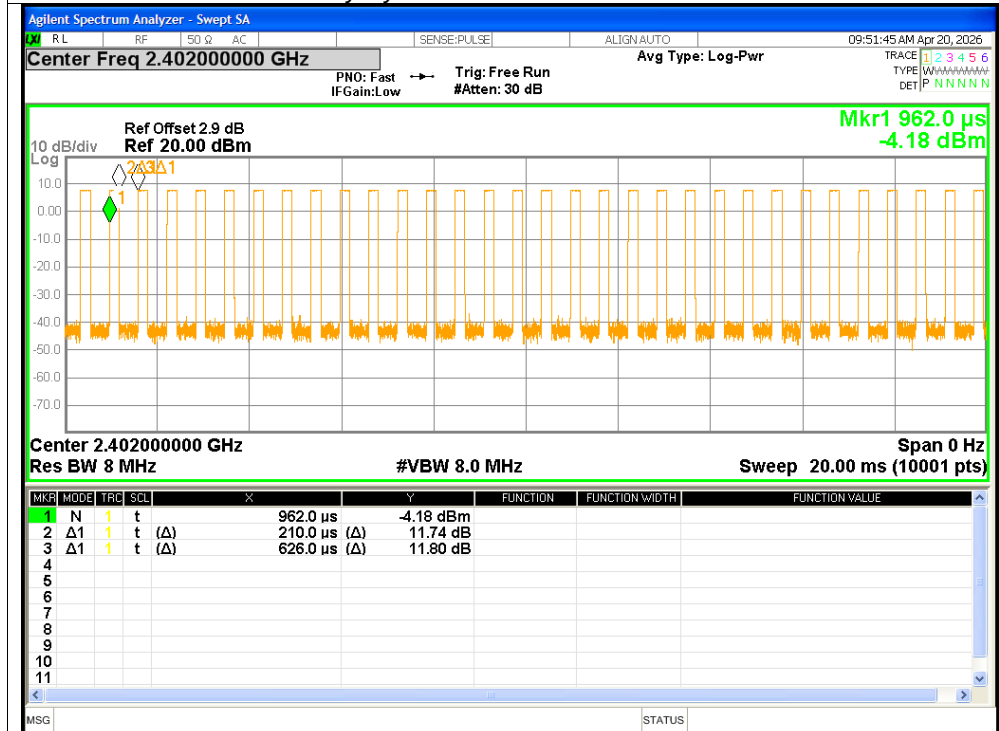




Duty Cycle NVNT BLE 1M 2480MHz

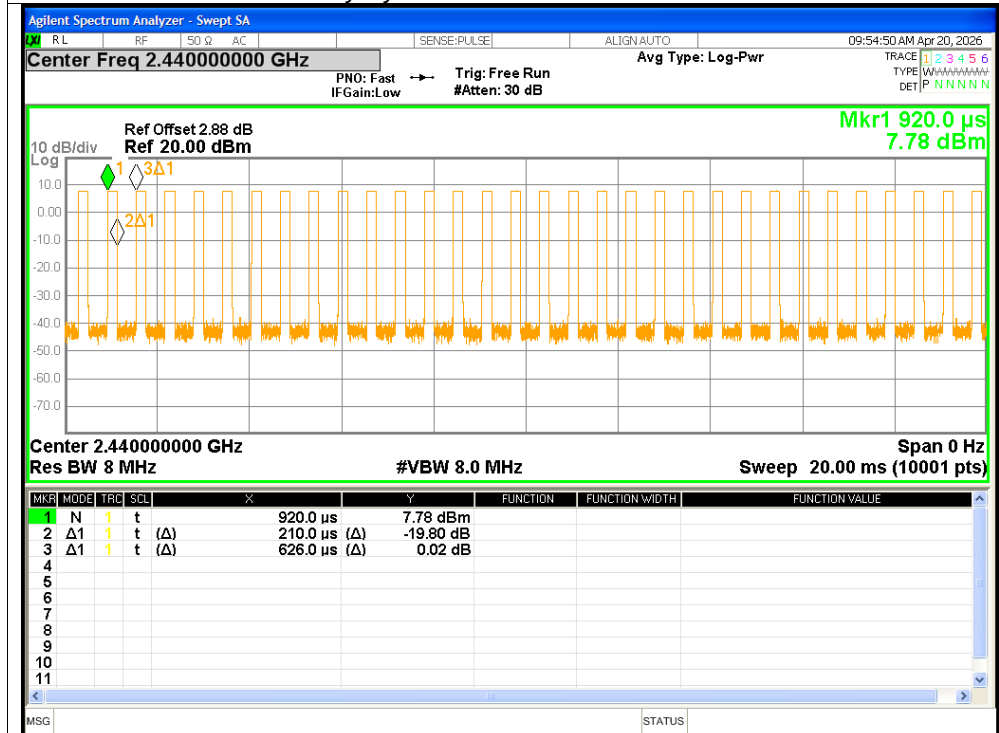


Duty Cycle NVNT BLE 2M 2402MHz

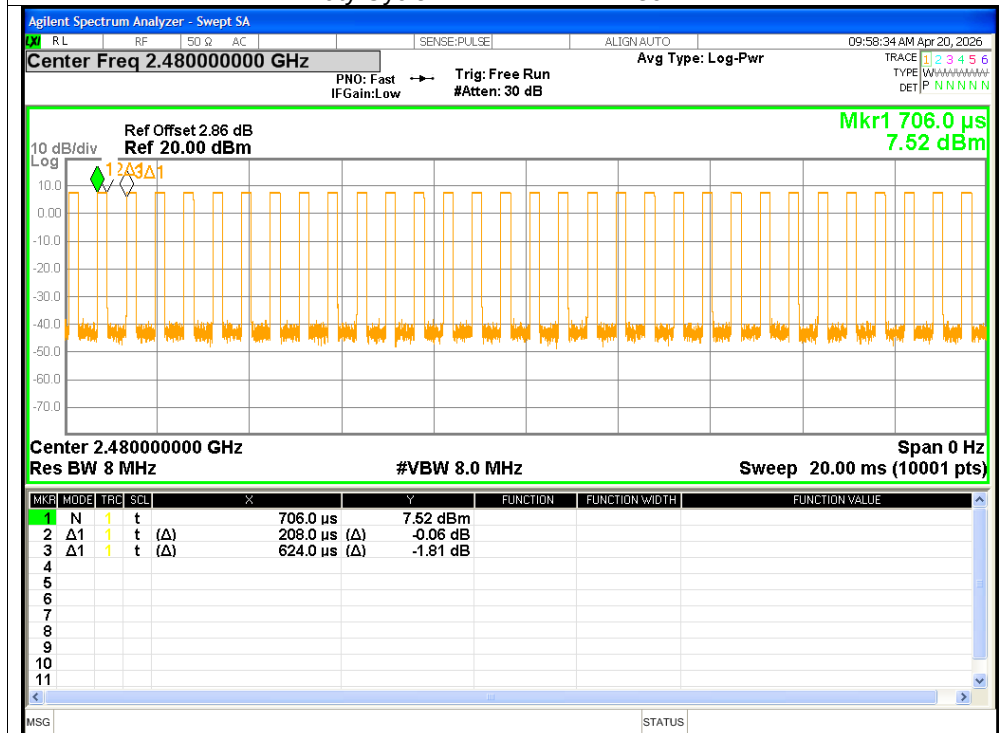




Duty Cycle NVNT BLE 2M 2440MHz



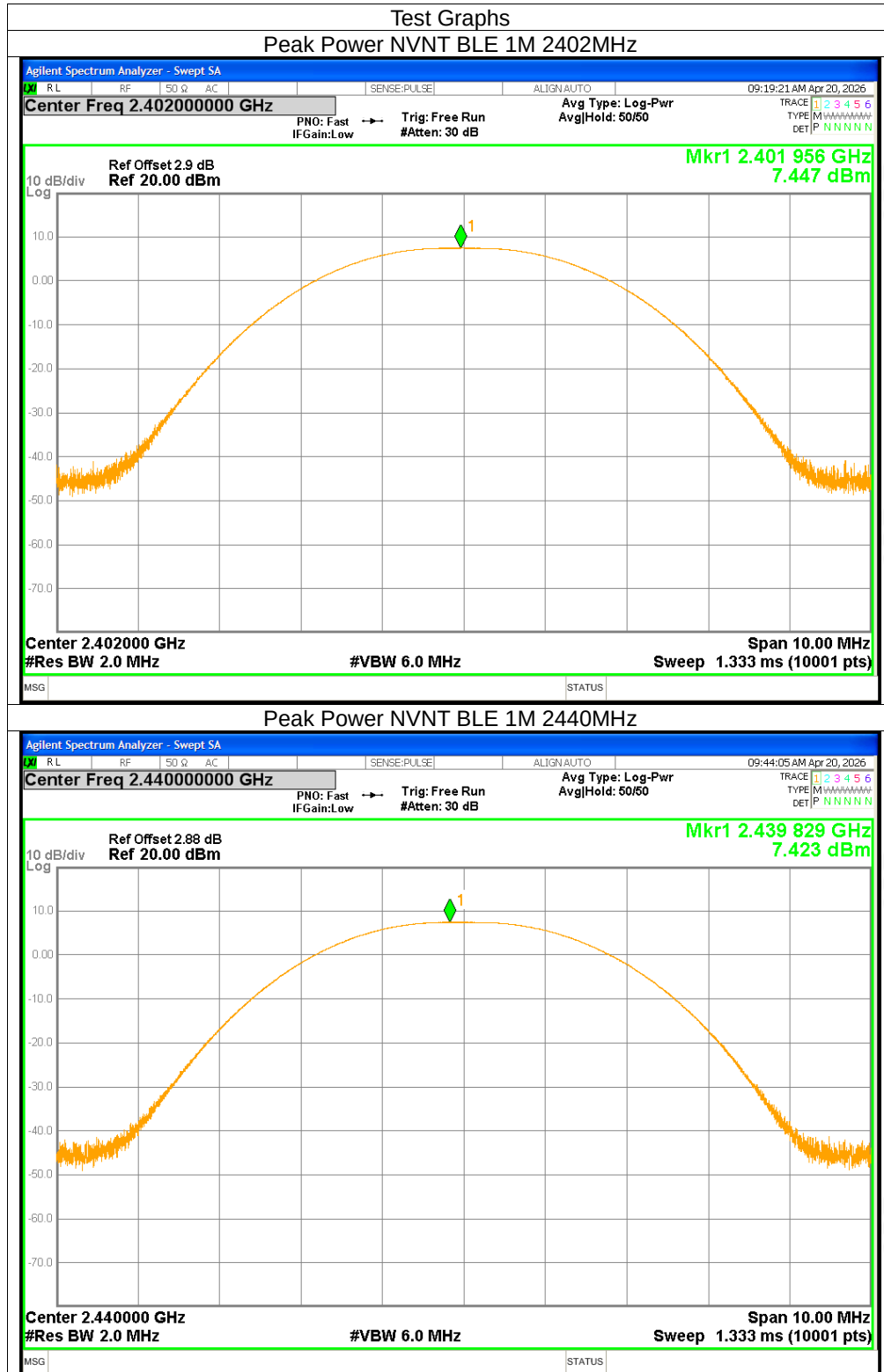
Duty Cycle NVNT BLE 2M 2480MHz

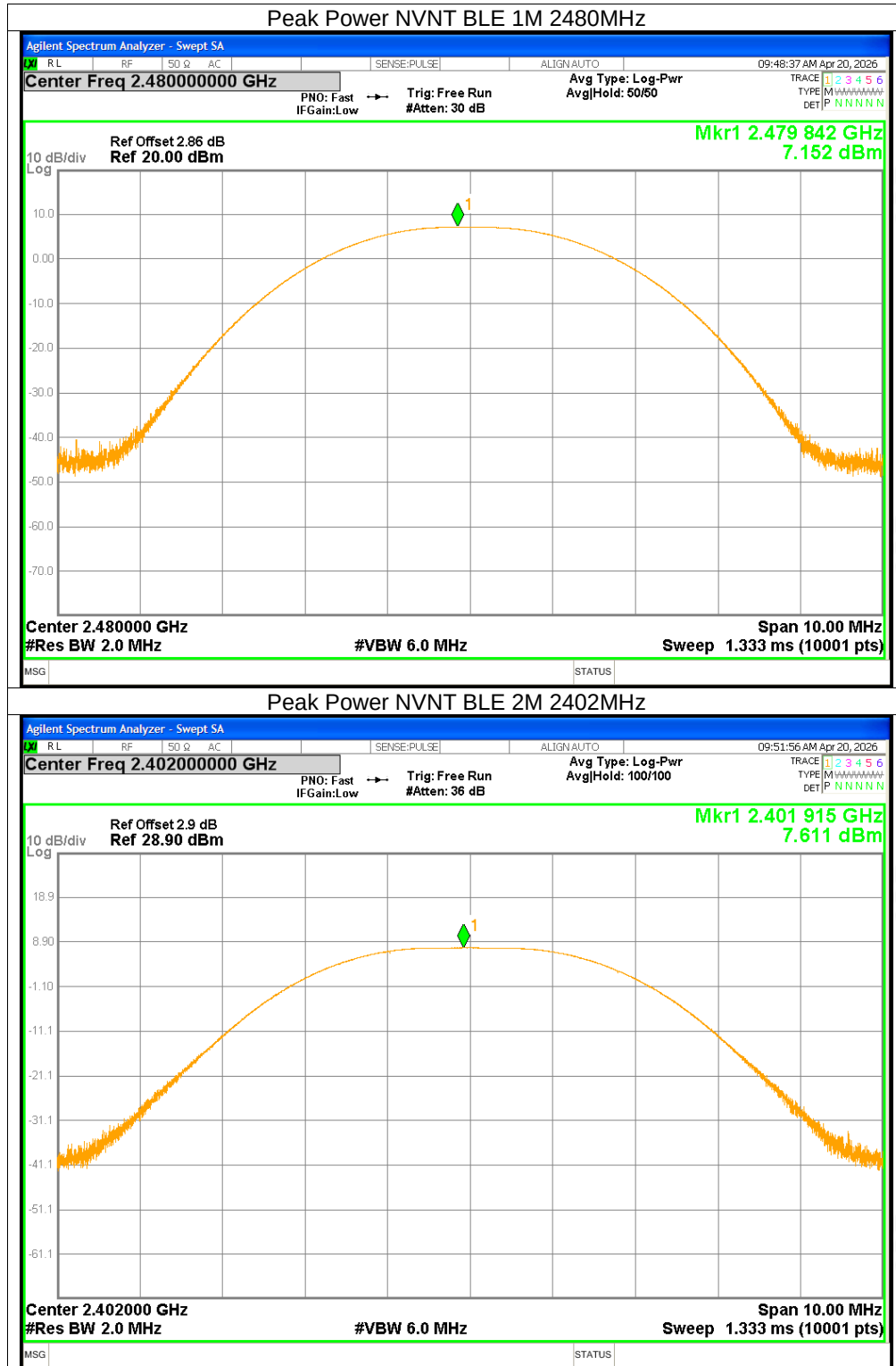




Maximum Peak Conducted Output Power

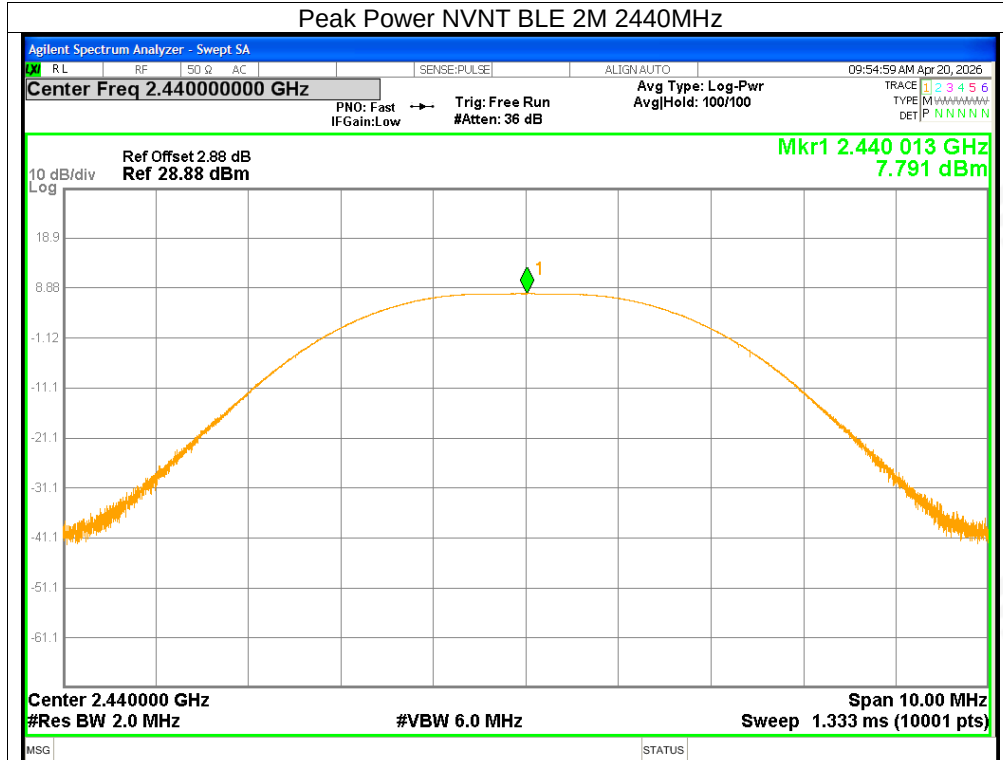
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	7.45	<=30	Pass
NVNT	BLE 1M	2440	7.42	<=30	Pass
NVNT	BLE 1M	2480	7.15	<=30	Pass
NVNT	BLE 2M	2402	7.61	<=30	Pass
NVNT	BLE 2M	2440	7.79	<=30	Pass
NVNT	BLE 2M	2480	7.57	<=30	Pass



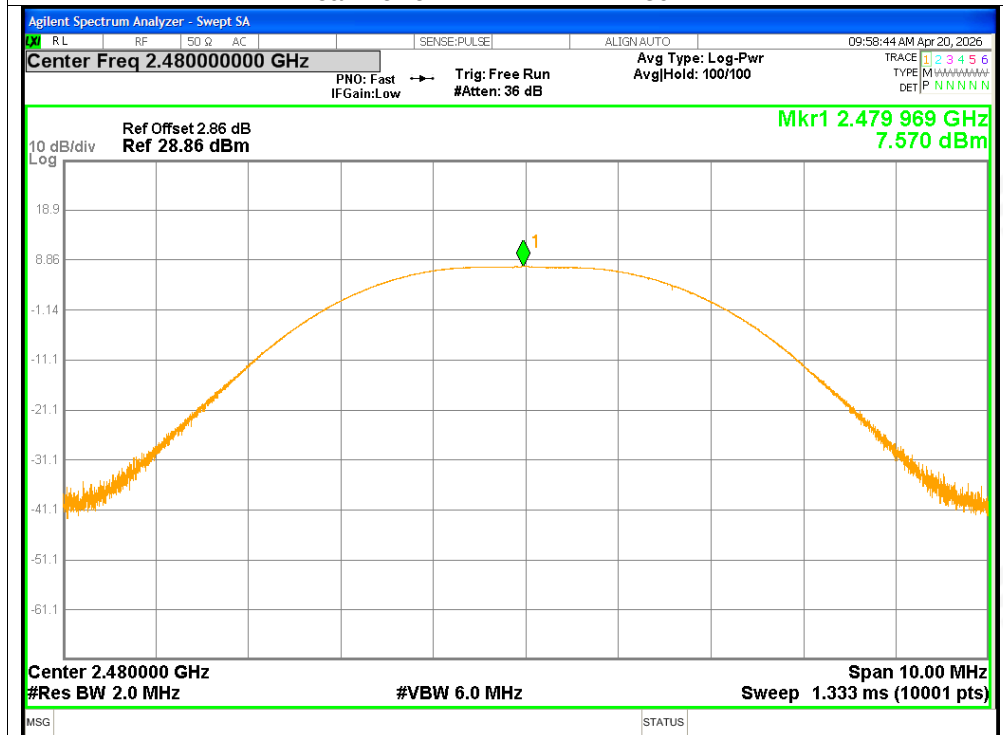




Peak Power NVNT BLE 2M 2440MHz



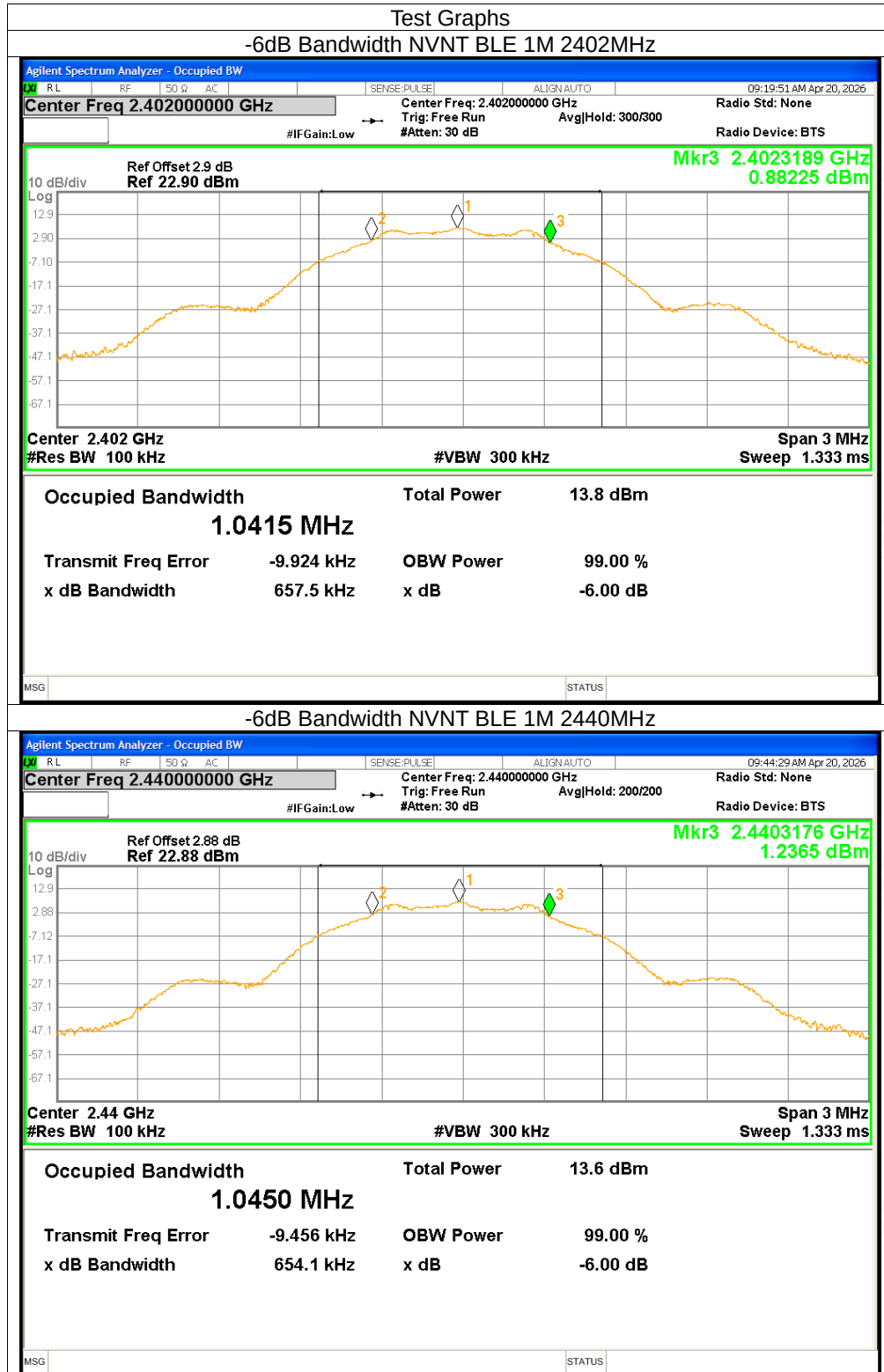
Peak Power NVNT BLE 2M 2480MHz

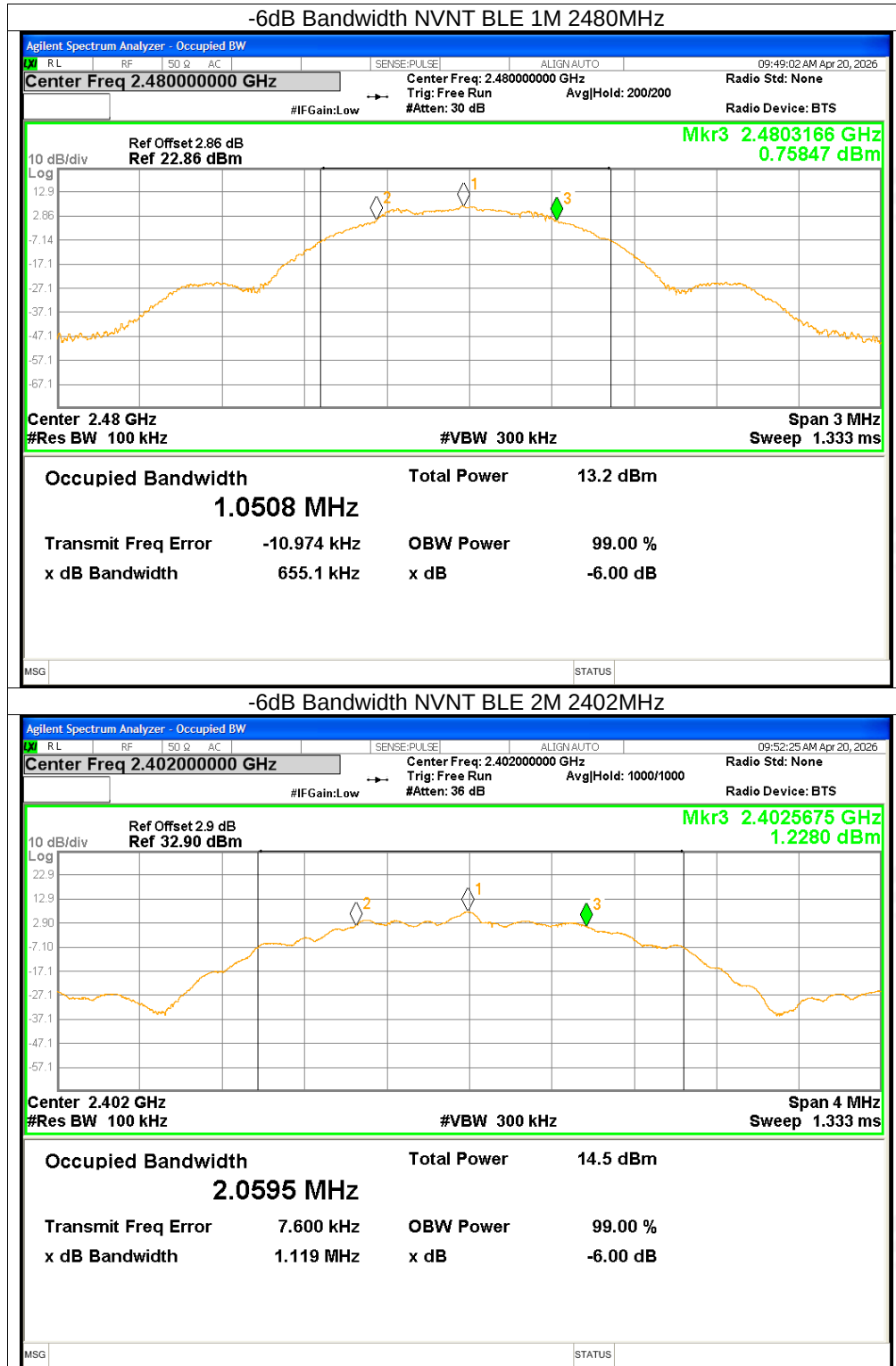


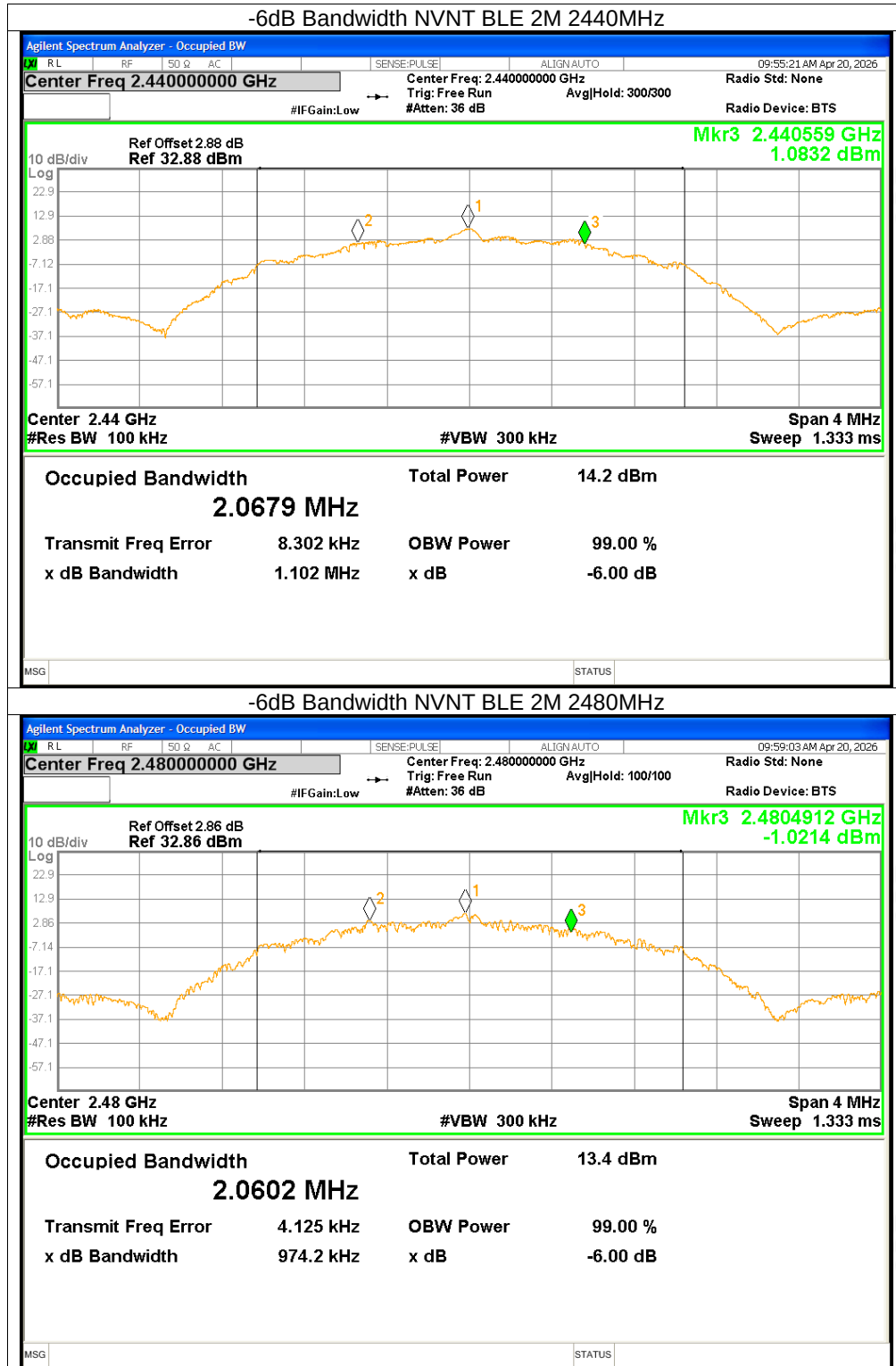


-6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.6575	≥ 0.5	Pass
NVNT	BLE 1M	2440	0.6541	≥ 0.5	Pass
NVNT	BLE 1M	2480	0.6551	≥ 0.5	Pass
NVNT	BLE 2M	2402	1.119	≥ 0.5	Pass
NVNT	BLE 2M	2440	1.102	≥ 0.5	Pass
NVNT	BLE 2M	2480	0.9742	≥ 0.5	Pass



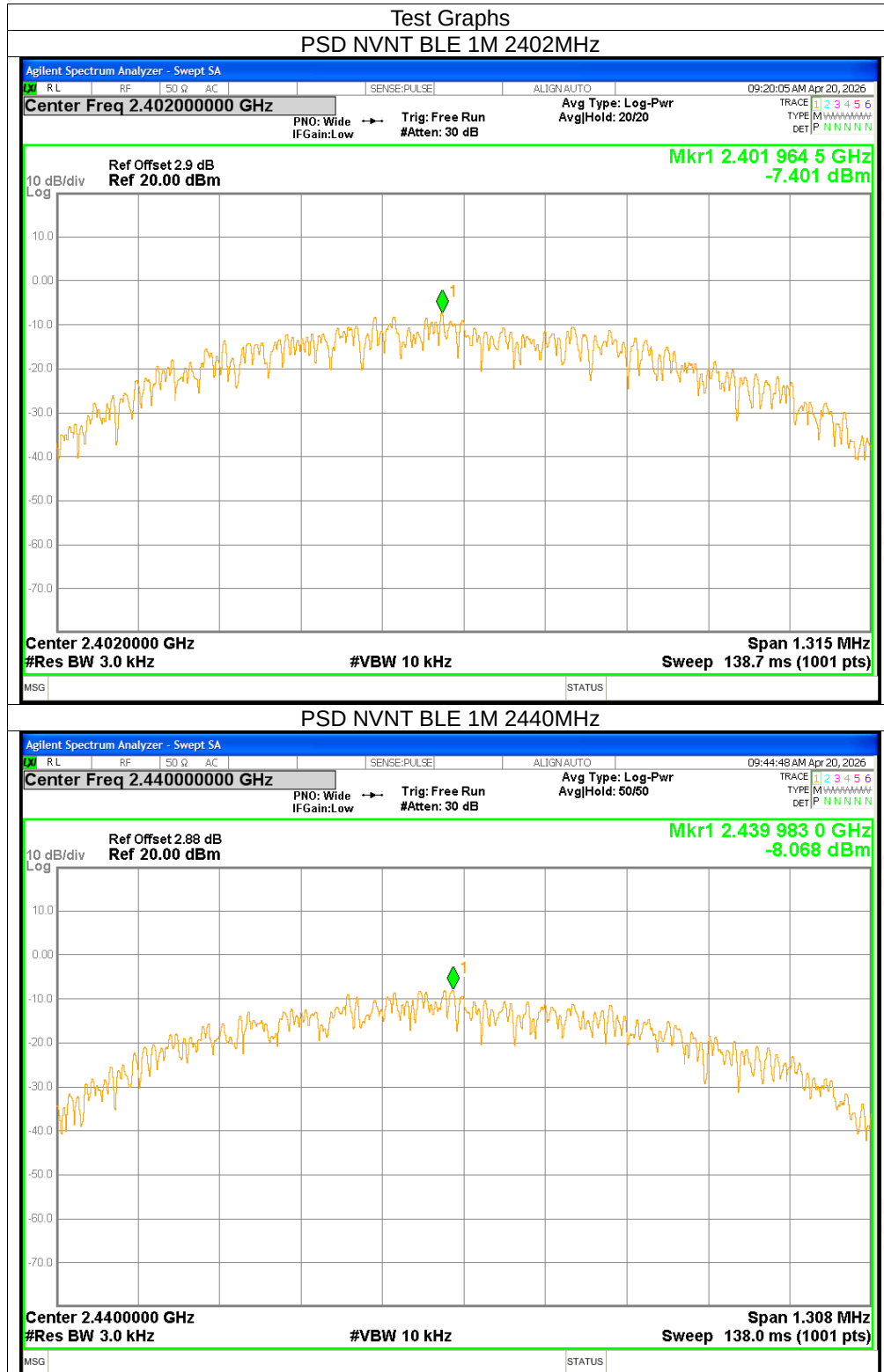


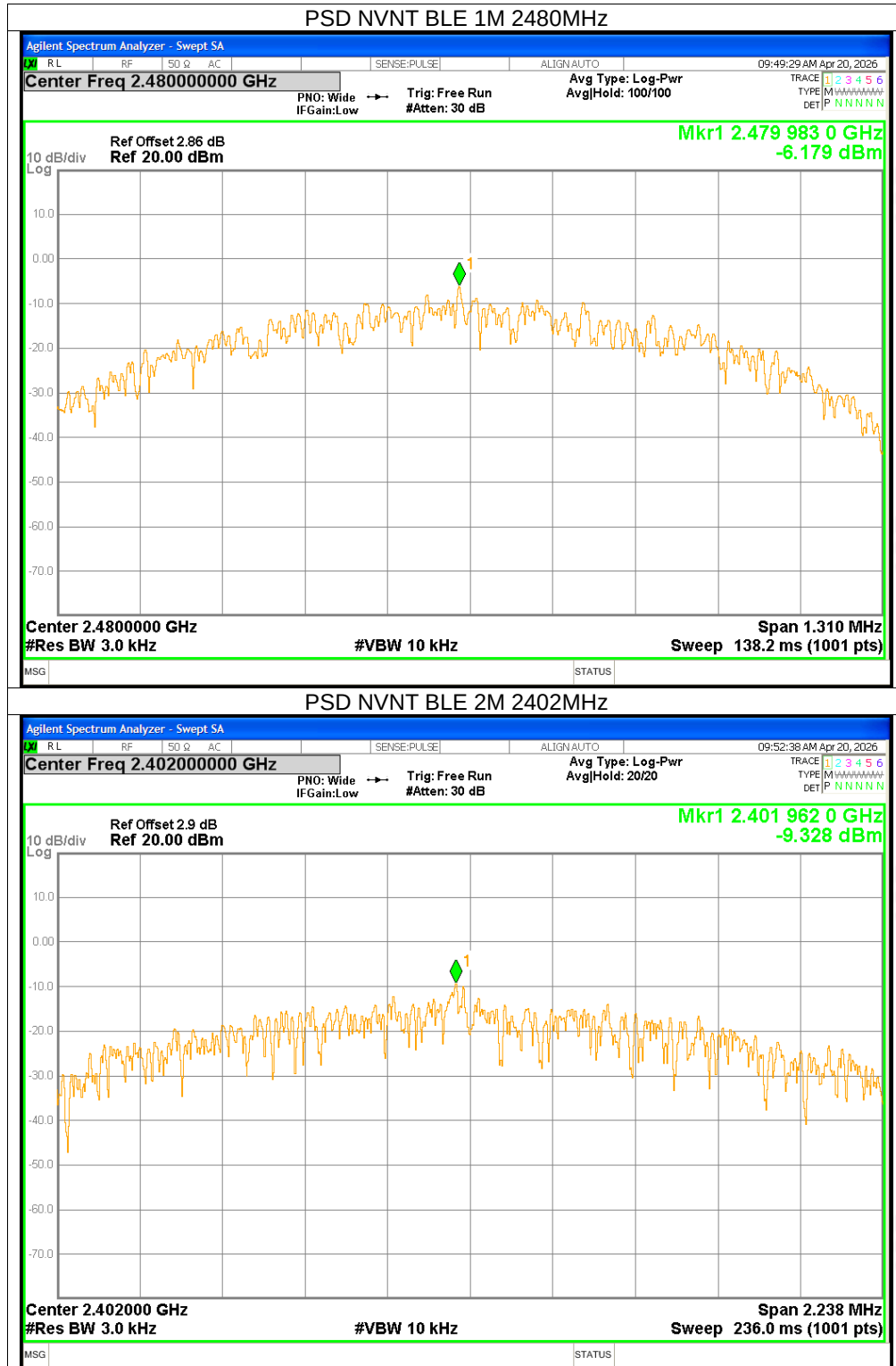


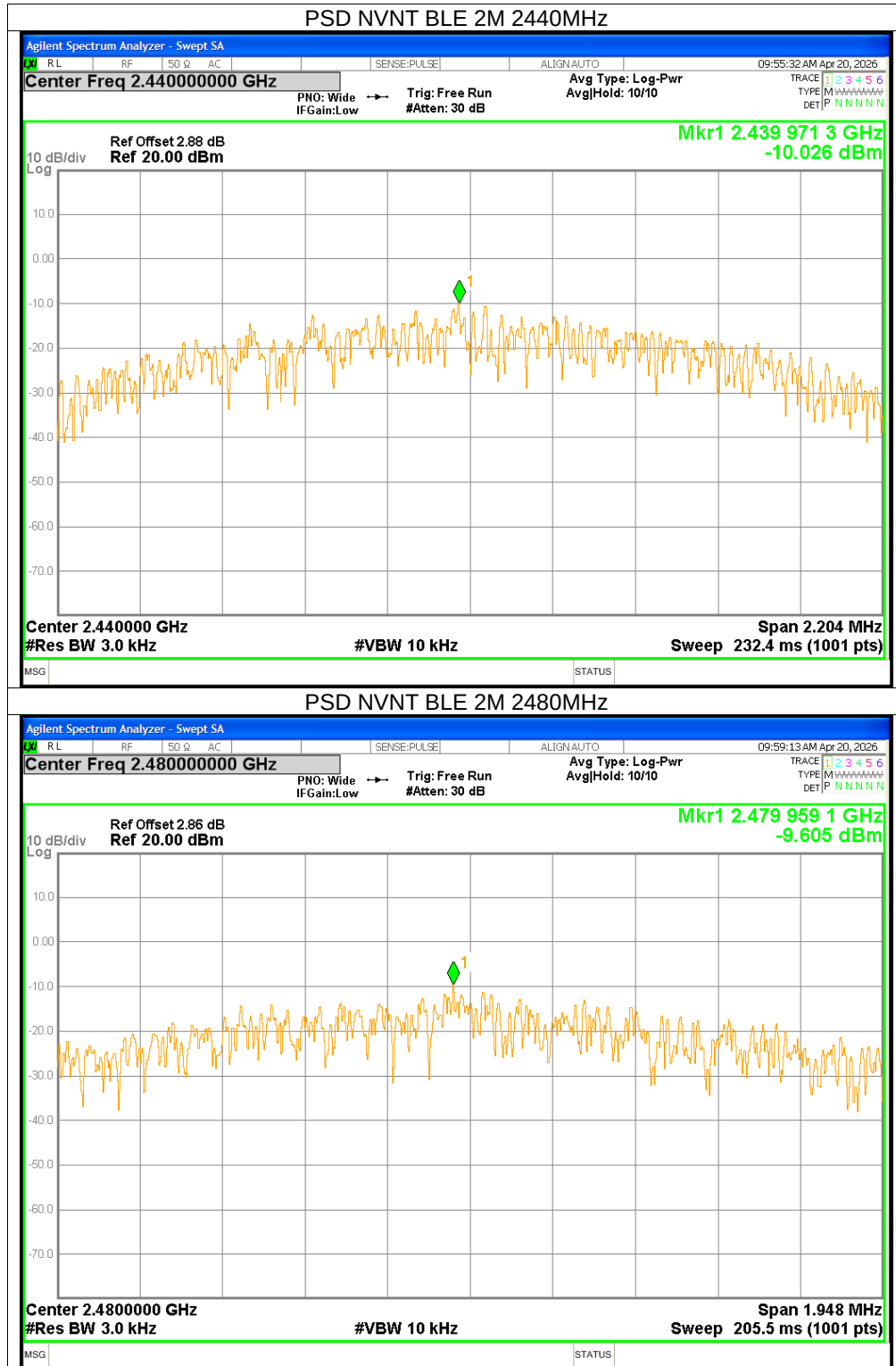


Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-7.4	≤ -8	Pass
NVNT	BLE 1M	2440	-8.07	≤ -8	Pass
NVNT	BLE 1M	2480	-6.18	≤ -8	Pass
NVNT	BLE 2M	2402	-9.33	≤ -8	Pass
NVNT	BLE 2M	2440	-10.03	≤ -8	Pass
NVNT	BLE 2M	2480	-9.61	≤ -8	Pass



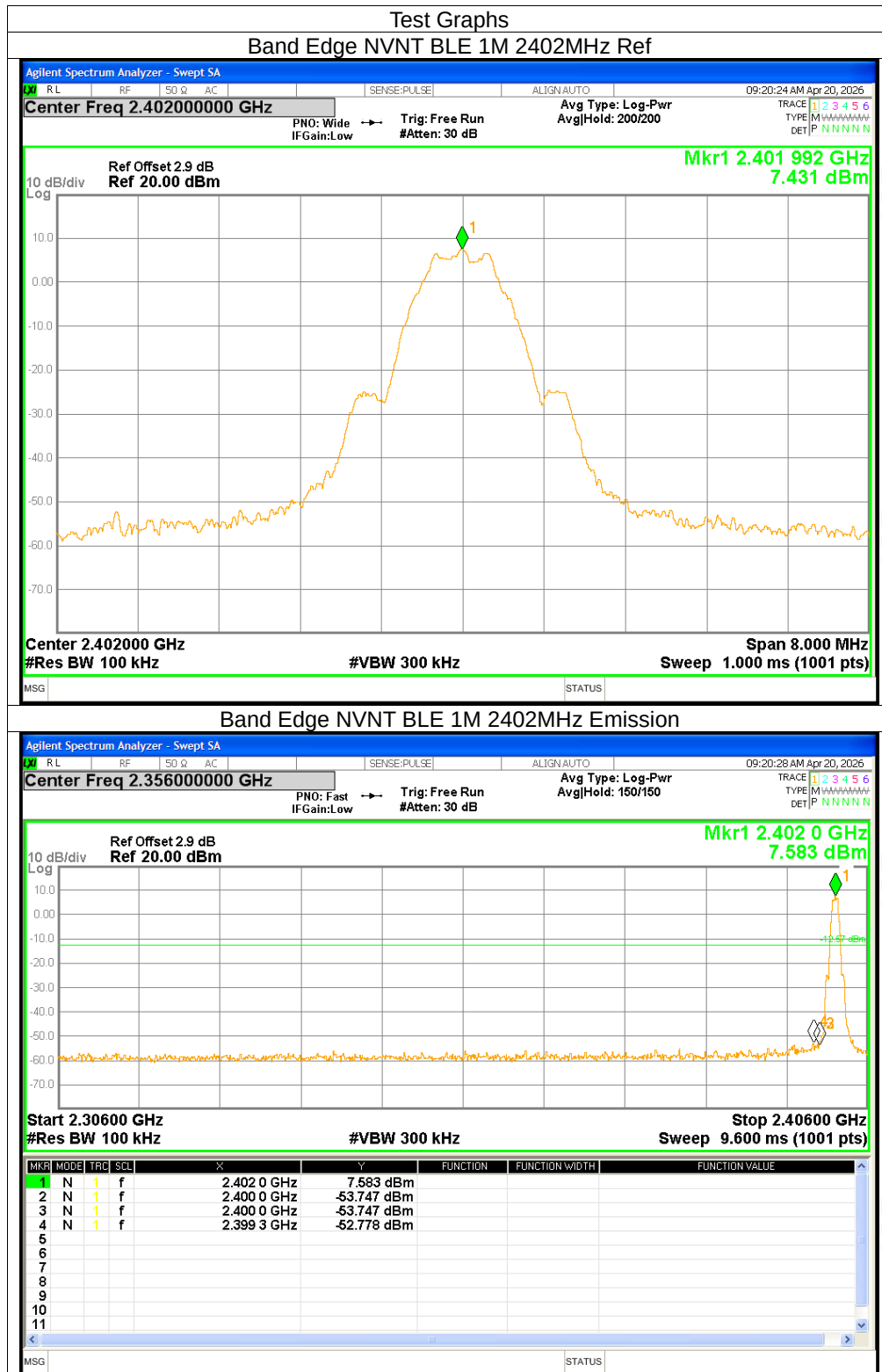


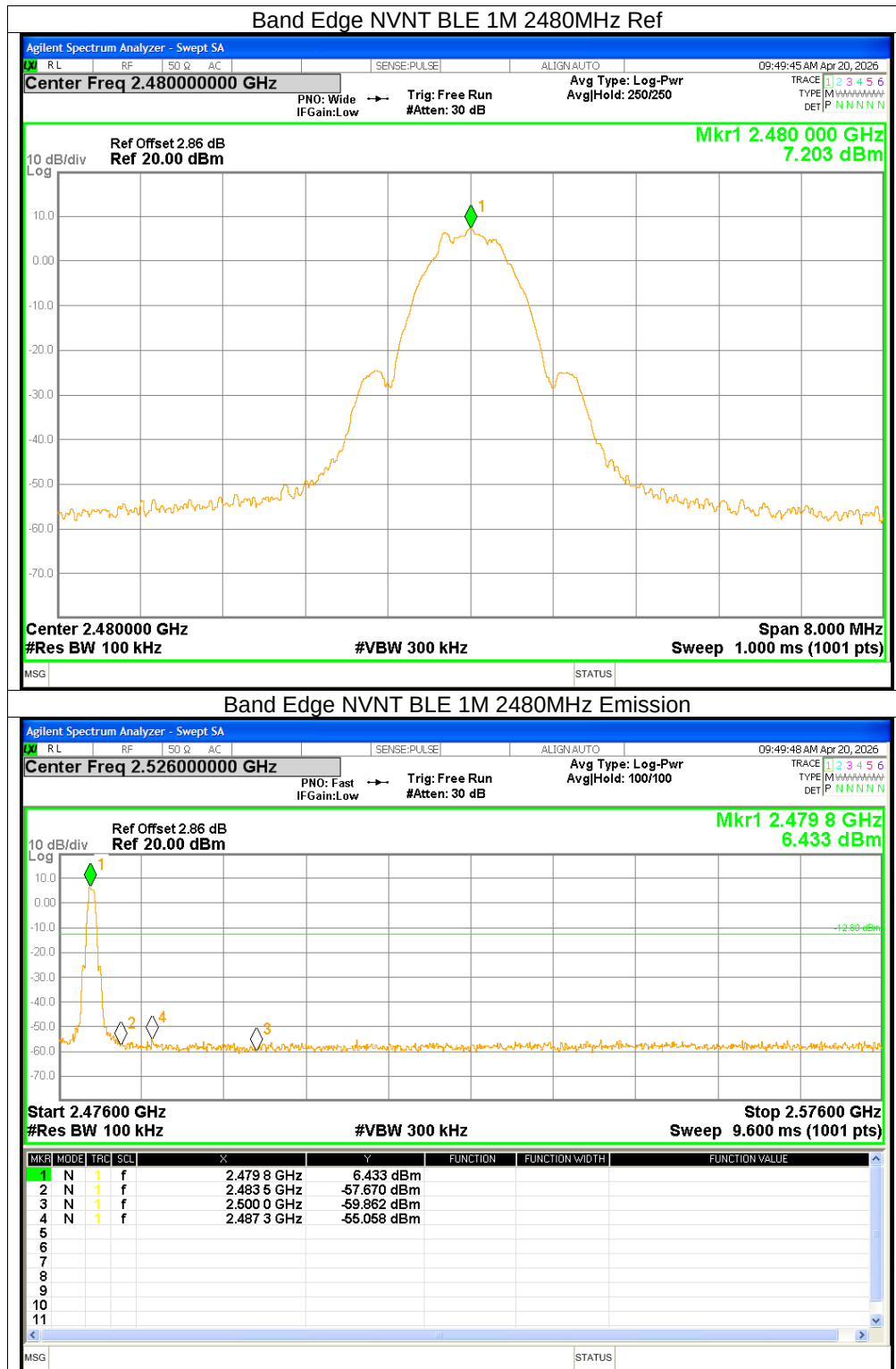


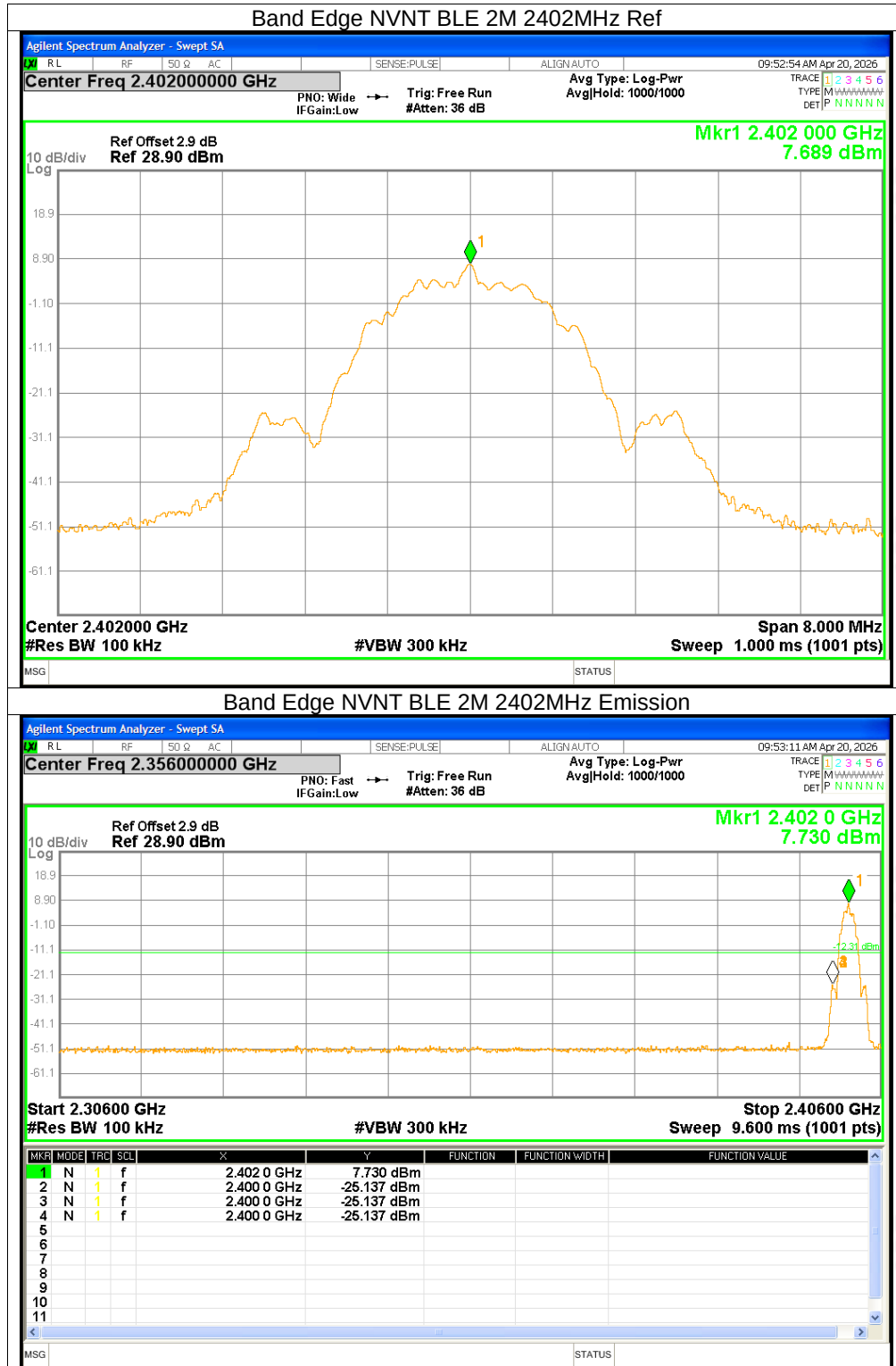


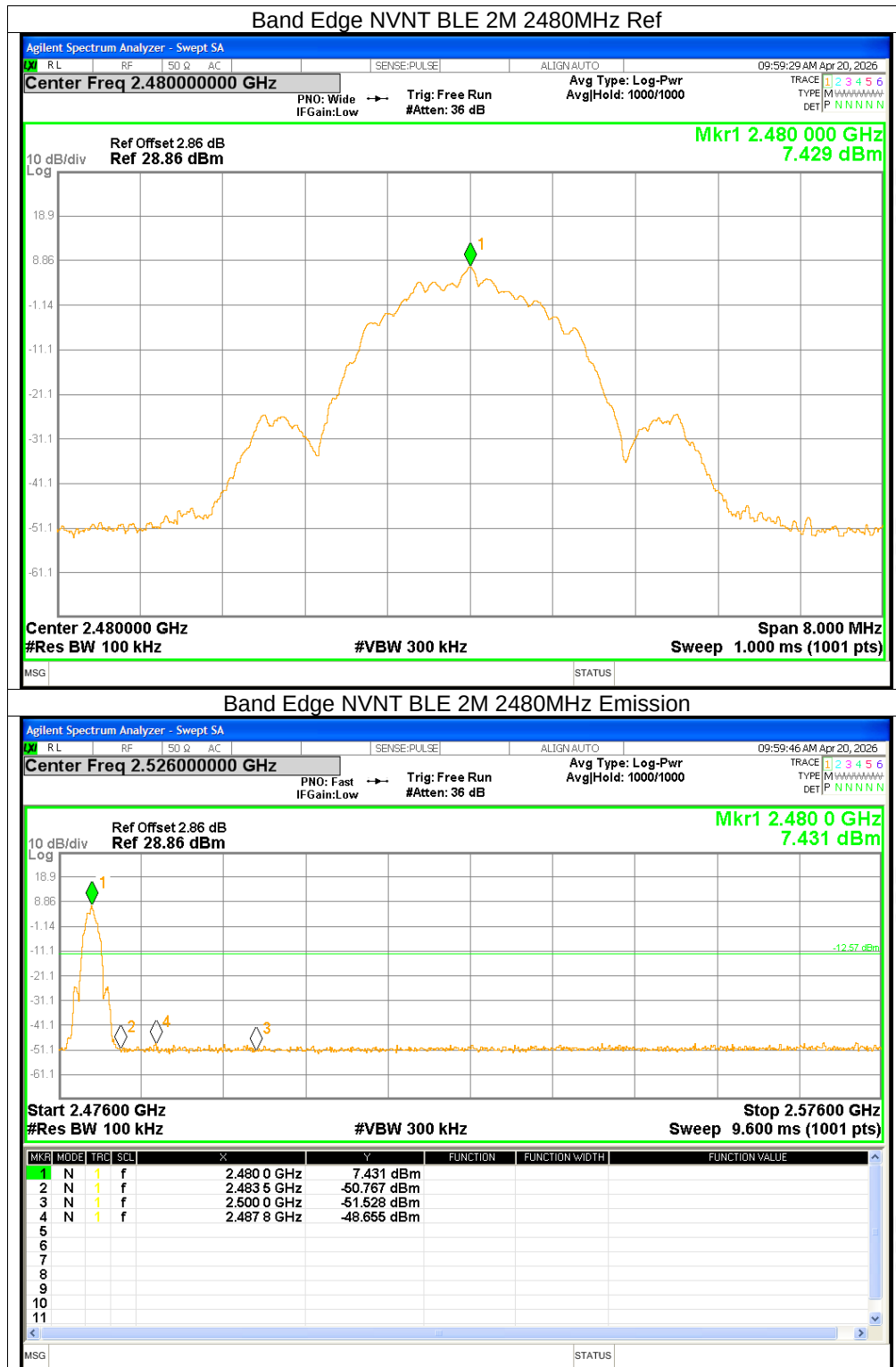
Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-60.2	≤ -20	Pass
NVNT	BLE 1M	2480	-62.25	≤ -20	Pass
NVNT	BLE 2M	2402	-32.82	≤ -20	Pass
NVNT	BLE 2M	2480	-56.08	≤ -20	Pass





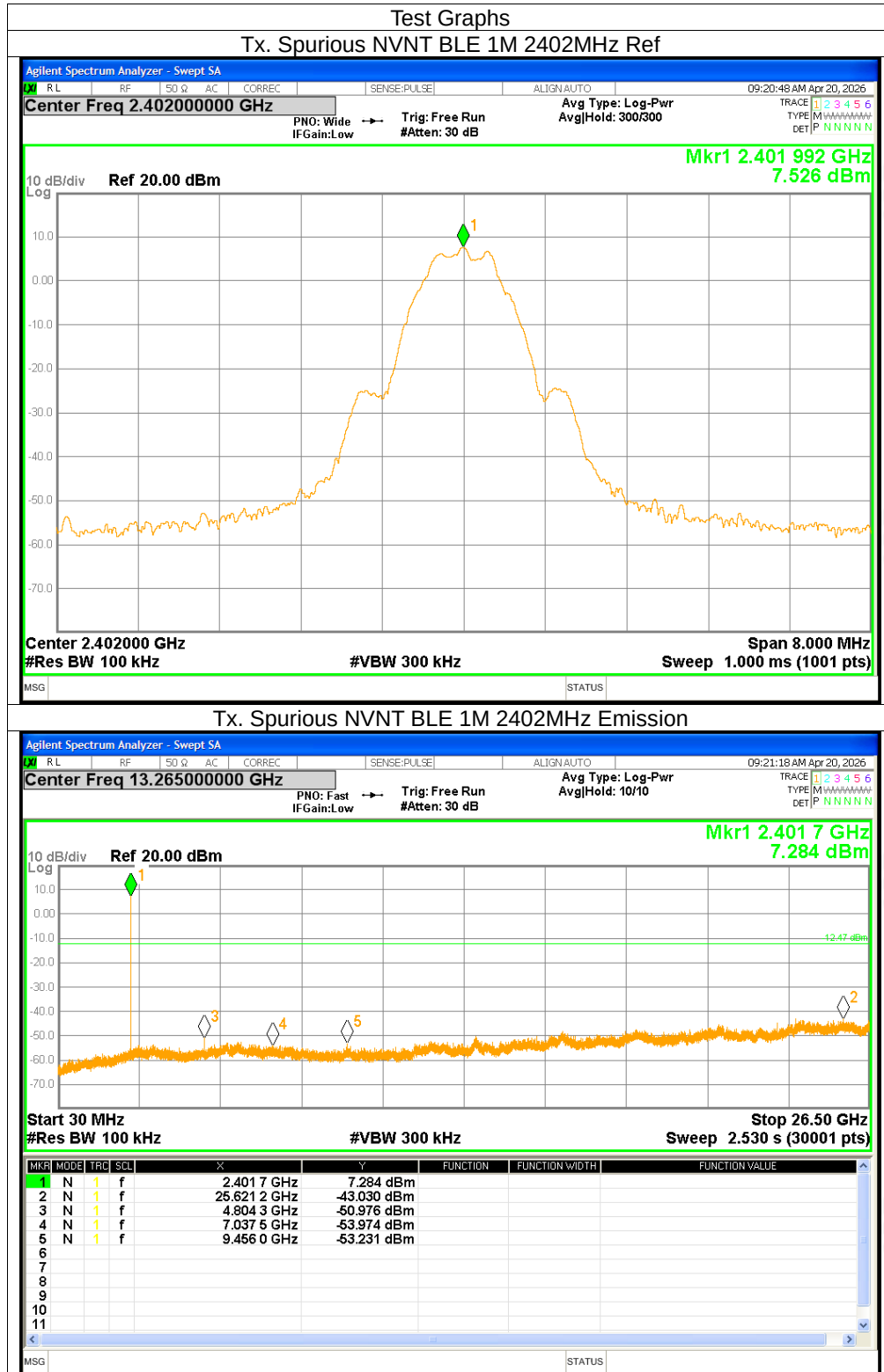


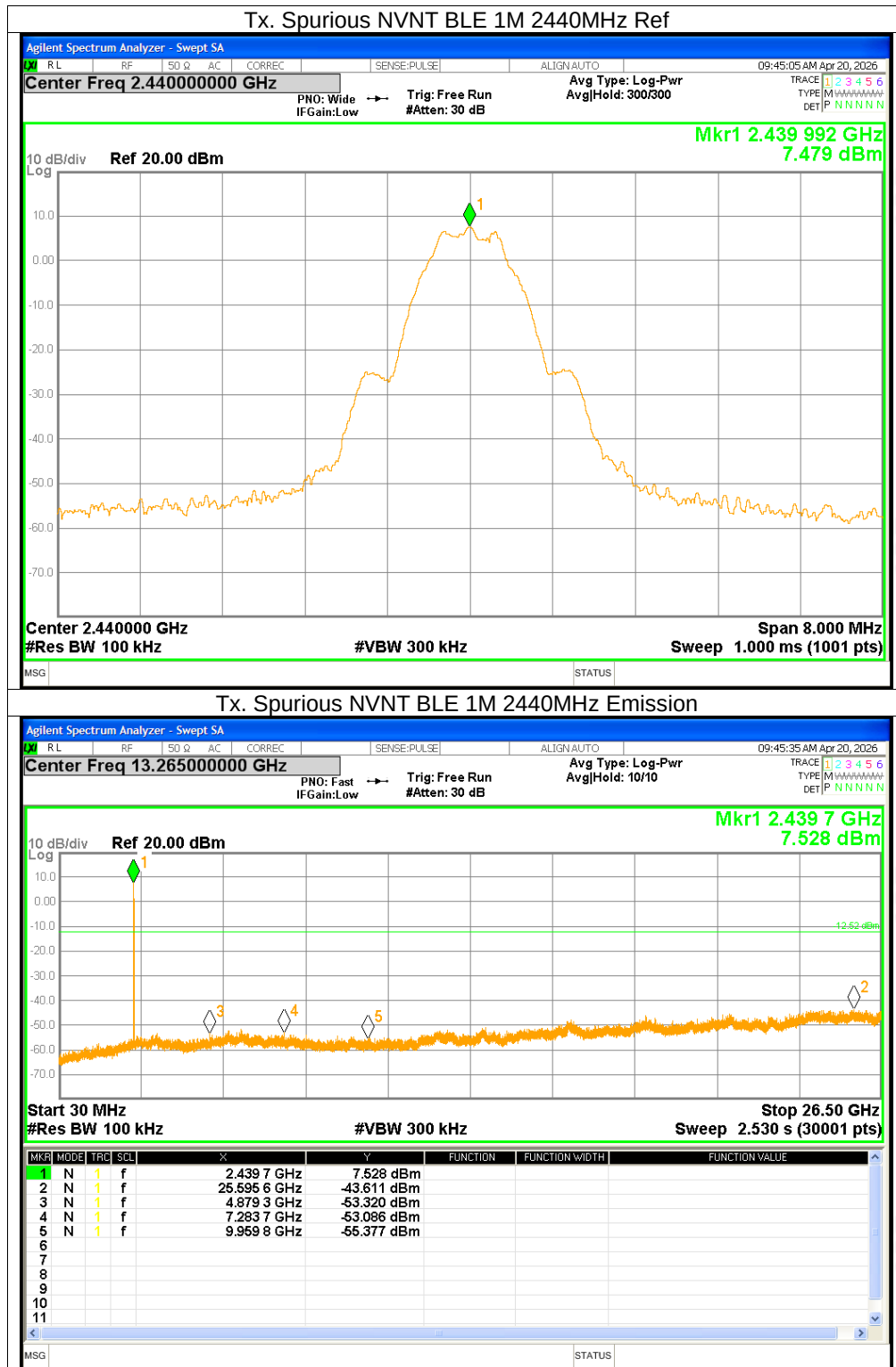


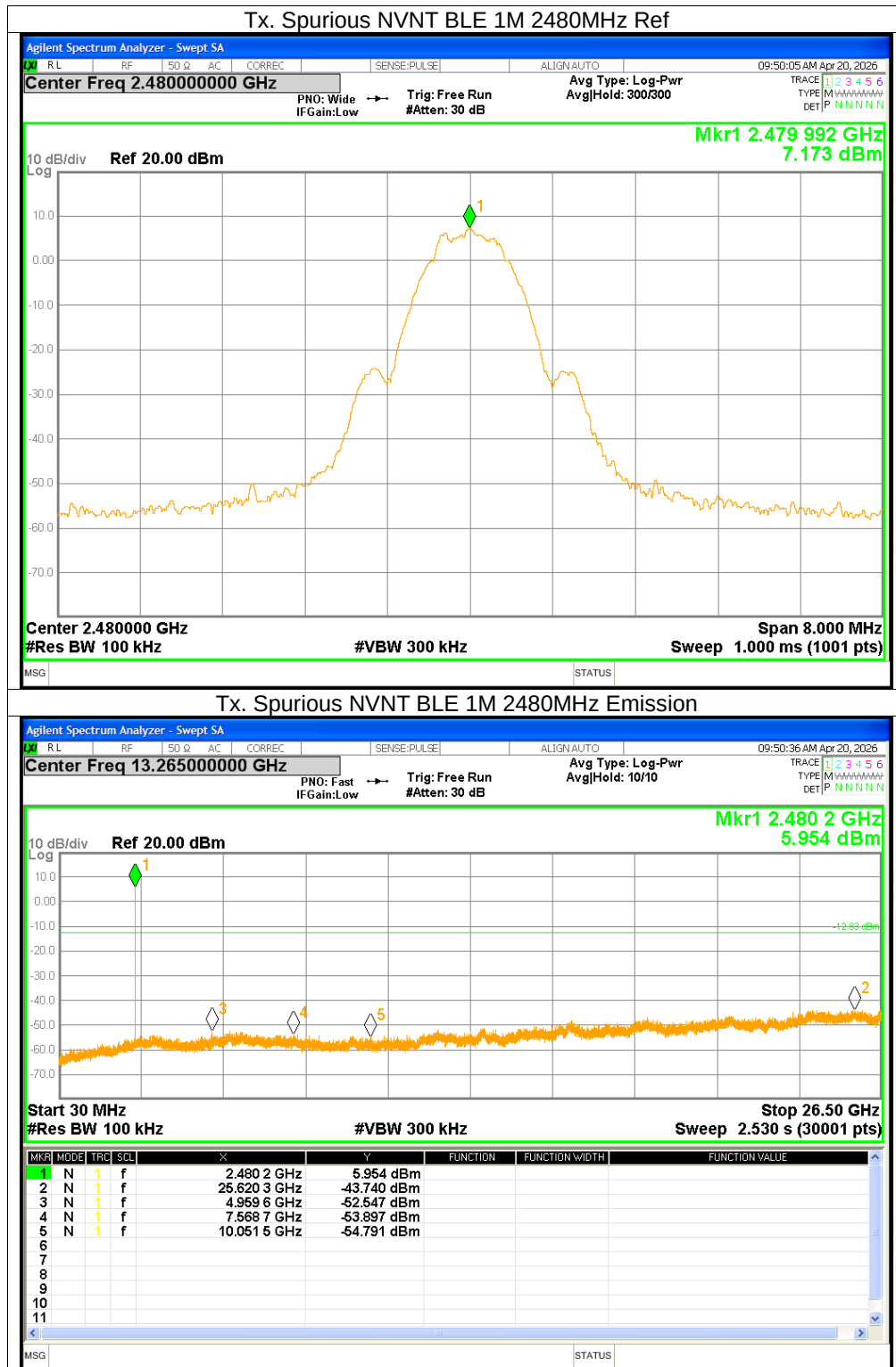


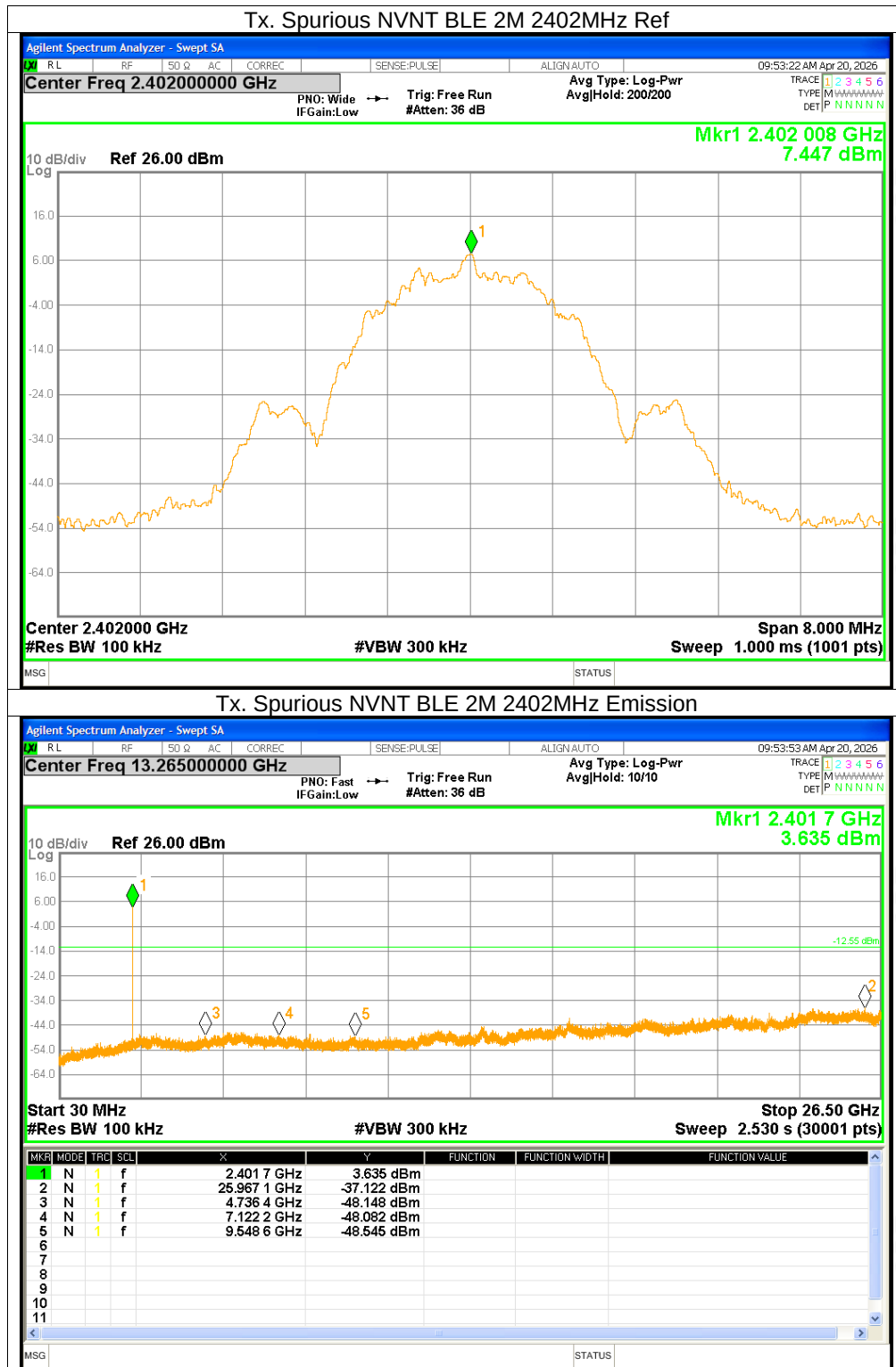
Conducted RF Spurious Emission

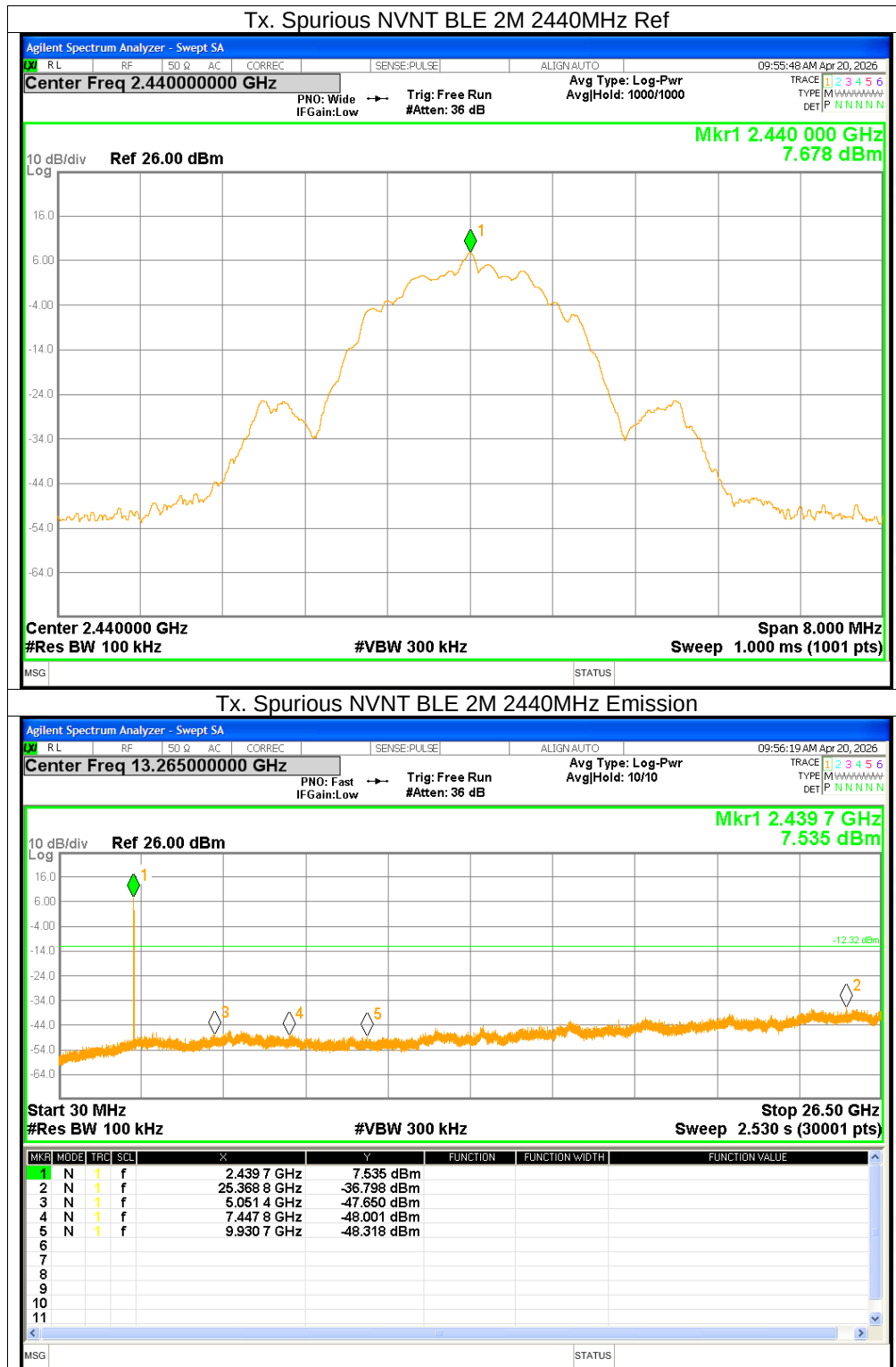
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-50.55	<=-20	Pass
NVNT	BLE 1M	2440	-51.09	<=-20	Pass
NVNT	BLE 1M	2480	-50.9	<=-20	Pass
NVNT	BLE 2M	2402	-44.57	<=-20	Pass
NVNT	BLE 2M	2440	-44.47	<=-20	Pass
NVNT	BLE 2M	2480	-44.8	<=-20	Pass

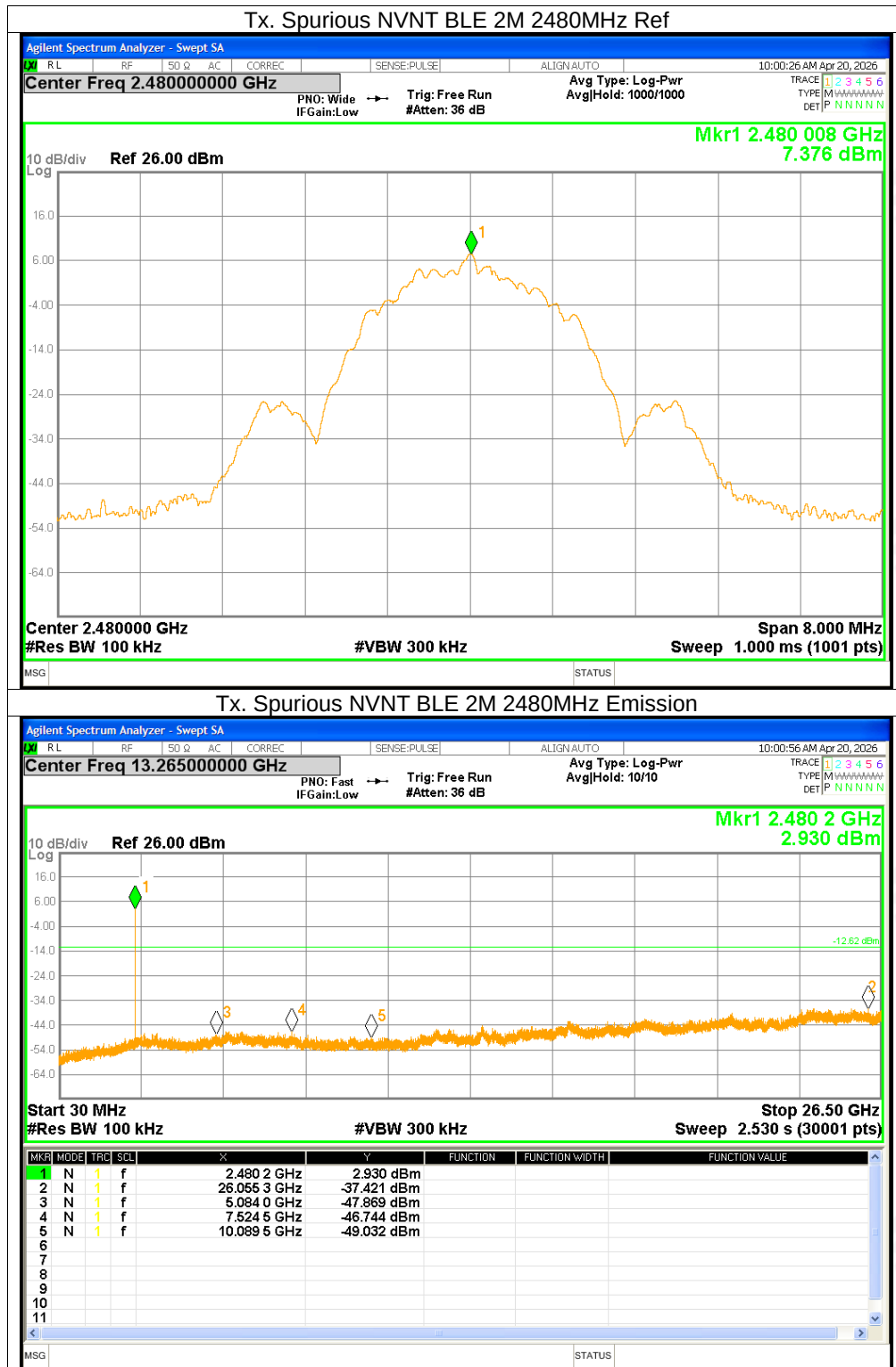














APPENDIX 2- EUT TEST PHOTO

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

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