



Radio Test Report

Report No.: STS2603196W01

Issued for

Spark Tech Creations Limited

UNIT D18 3/F WONG KING INDUSTRIAL BUILDING NO.2
TAIYAU STREET SAN PO KONG KL Hong Kong

Product Name: Molly&Cody Cordless Cat Water Fountain

Brand Name: Molly&Cody

Model Name: WF-11

Series Model(s) N/A

FCC ID: 2BORO-WF-11

Test Standards: FCC Part 15.245

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 : Spark Tech Creations Limited
Address : UNIT D18 3/F WONG KING INDUSTRIAL BUILDING NO.2 TAIYAU
STREET SAN PO KONGKL Hong Kong
Manufacture's Name : Spark Tech Creations Limited
Address : UNIT D18 3/F WONG KING INDUSTRIAL BUILDING NO.2 TAIYAU
STREET SAN PO KONGKL Hong Kong

Product Description

Product Name : Molly&Cody Cordless Cat Water Fountain

Brand Name : Molly&Cody

Model Name : WF-11

Series Model : N/A

Test Standards : FCC Part 15.245

Test Procedure : ANSI C63.4-2014+C63.4a-2017
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.

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Date of Test :

Date of receipt of test item : 24 Mar. 2026

Date of performance of tests . : 24 Mar. 2026~10 Apr. 2026

Date of Issue : 10 Apr. 2026

Test Result : **Pass**

Testing Engineer :

Rain Liu

(Rain Liu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	10 Apr. 2026	STS2603196W01	ALL	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15.245		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
15.245(b)	Field strength of emissions (wanted signal)	PASS
2.1049	Occupied Bandwidth	PASS
15.209(a) 15.245(b)(1)(2)(3)	Field Strength of Spurious Radiation	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 C63.4 and ANSI C63.10. 2020+Cor 1-2023



1.1 TEST FACILITY

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	$\pm 0.751\text{dB}$
2	Occupied bandwidth	$\pm 3.6\%$
3	All emissions, radiated below 1GHz	$\pm 2.52\text{dB}$
4	All emissions, radiated 1GHz-18GHz	$\pm 3.48\text{dB}$
5	All emissions, radiated >18G	$\pm 4.18\text{dB}$
6	Duty Cycle	$\pm 3.2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	Molly&Cody Cordless Cat Water Fountain
Brand Name	Molly&Cody
Model Name	WF-11
Series Model(s)	N/A
Model Difference	N/A
Operation Frequency	10.5– 10.55 GHz
Modulation Type	CW
Antenna Type	Microstrip antenna
Antenna Gain(dBi)	4.5
Test Channel	Please refer to the Note 3.
Power Rating	N/A
Battery	Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 4000mAh
Hardware version number	N/A
Software version number	N/A

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	WF-11	Microstrip	N/A	4.5	Antenna

The EUT antenna is External Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

3

Channel List	
Channel	Frequency (GHz)
01	10.5-10.55

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above listed frequency for testing.

2.2 EUT OPERATION MODE

The EUT has been tested under typical operating condition and The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

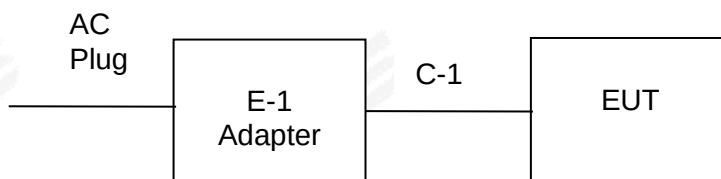
2.3 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

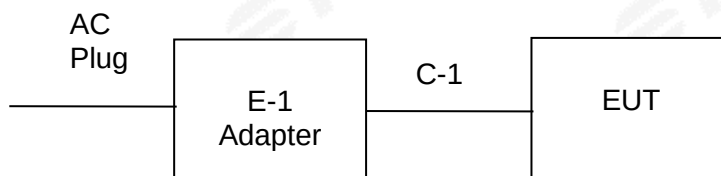
Test Mode	Description
Mode1	TX mode
Mode2	Charging mode

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission 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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-1	Adapter	ZTC	NB-A515A	N/A	N/A
C-1	USB Cable	COOSPO	TR70	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.6 TEST EQUIPMENT

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	60665	2025.02.22	2026.02.21
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2026.02.04	2027.02.03
Active loop Antenna(9KHz-30MHz)	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna(30-1000MHz)	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna(1G-18GHz)	SCHWARZBECK	BBHA 9120D	2014	2025.09.27	2027.09.26
HornAntenna(18G-40GHz)	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Horn Antenna(40G-60GHz)	A-INFO	LB-19-25-A	2020039000053	2024.12.25	2027.12.24
Horn Antenna(50G-75GHz)	A-INFO	LB-15-25-A	2020028000183	2024.12.25	2027.12.24
Horn Antenna(75G-110GHz)	A-INFO	LB-10-25-A	2020017000101	2024.12.25	2027.12.24
Mixer(40-60GHz)	AT-Microwave	AT-SAX8-4060	U4NO01	2024.12.25	2027.12.24
Mixer(50-75GHz)	AT-Microwave	AT-SAXB-5075	V4NO01	2024.12.25	2027.12.24
Mixer(75-110GHz)	AT-Microwave	AT-SAX8-75110	S5JA01	2024.12.25	2027.12.24
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
Signal Analyzer	Keysight	N9020A	MY52440124	2026.02.04	2027.02.03
Positioning Controller	MF	MF-7802	MF-780208587	2025.09.26	2026.09.25
signal generator	Keysight	E8257D	MY58040082	2026.02.04	2027.02.03
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	2025.09.26	2026.09.25
Switch Control Box	SKET	SU319E	51409043	2025.09.26	2026.09.25
Antenna Mast	MF	MFA-440H	1308023	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2026.02.04	2027.02.03
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFENG	DPS-305AF	17064939	2025.09.22	2026.09.21
Test SW	EZ-MMW	Ver.STSLAB-MMW1.0			
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
Limtter	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	010057	2025.09.25	2026.09.24
Temperature & Humidity	TORIE	TP502V4-P	6700000124211	2025.10.09	2026.10.08
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			

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.

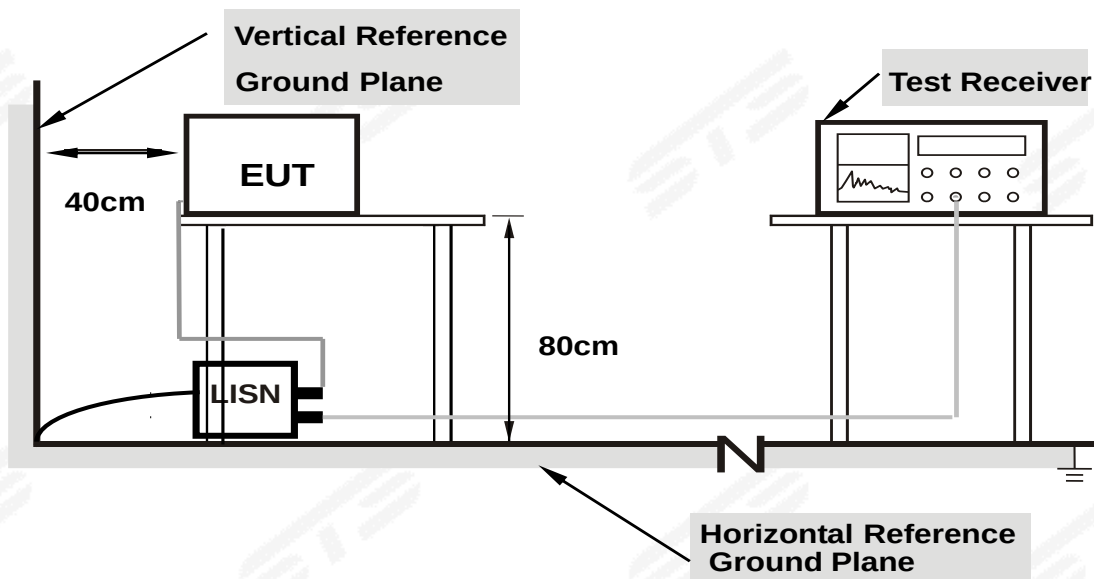
The following table is the setting of the receiver

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 RESULT

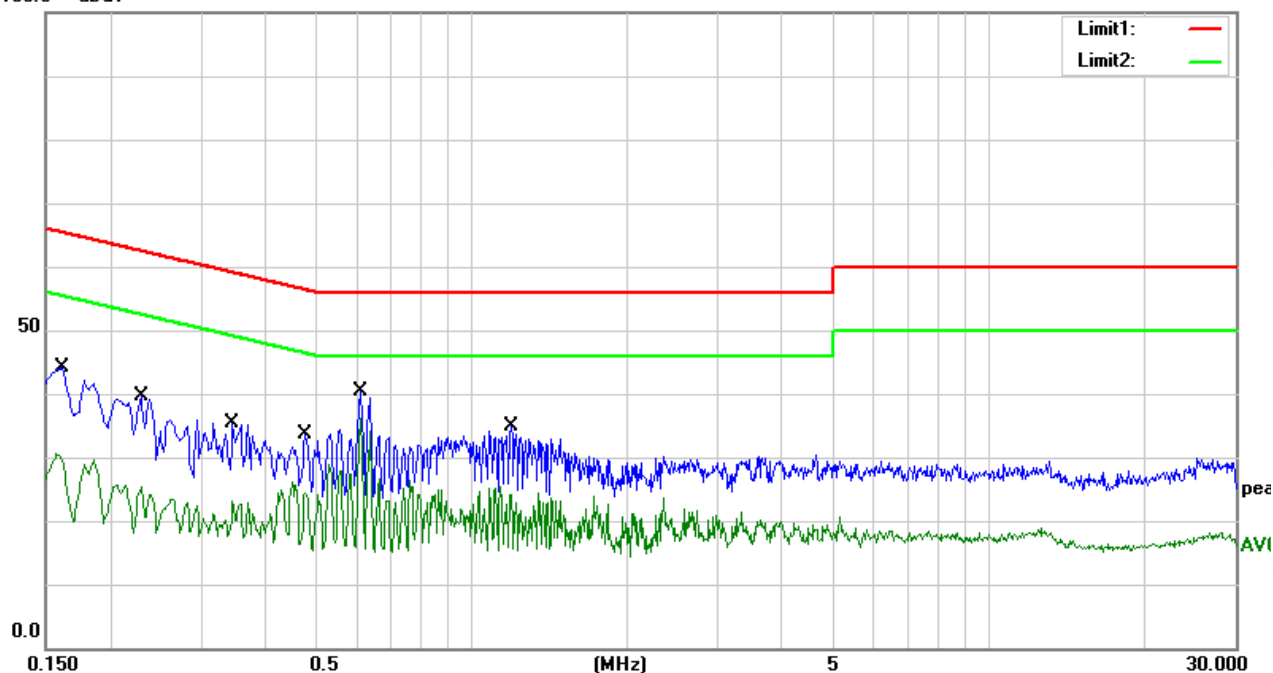
Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 2		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1620	24.78	19.40	44.18	65.36	-21.18	QP
2	0.1620	11.12	19.40	30.52	55.36	-24.84	AVG
3	0.2300	20.24	19.38	39.62	62.45	-22.83	QP
4	0.2300	10.26	19.38	29.64	52.45	-22.81	AVG
5	0.3460	15.99	19.36	35.35	59.06	-23.71	QP
6	0.3460	3.65	19.36	23.01	49.06	-26.05	AVG
7	0.4780	14.25	19.34	33.59	56.37	-22.78	QP
8	0.4780	9.60	19.34	28.94	46.37	-17.43	AVG
9	0.6100	20.90	19.37	40.27	56.00	-15.73	QP
10	0.6100	16.64	19.37	36.01	46.00	-9.99	AVG
11	1.1940	15.59	19.39	34.98	56.00	-21.02	QP
12	1.1940	5.97	19.39	25.36	46.00	-20.64	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





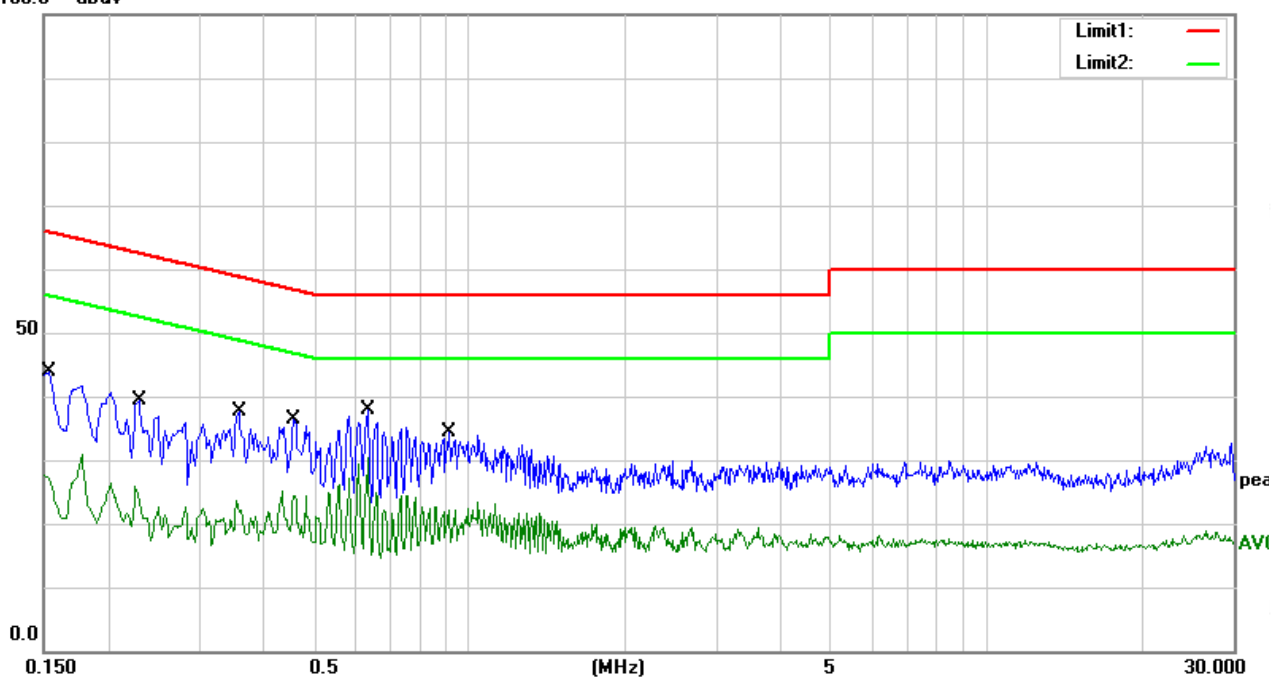
Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 2		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1540	24.50	19.41	43.91	65.78	-21.87	QP
2	0.1540	11.40	19.41	30.81	55.78	-24.97	AVG
3	0.2300	20.05	19.38	39.43	62.45	-23.02	QP
4	0.2300	6.95	19.38	26.33	52.45	-26.12	AVG
5	0.3580	18.19	19.36	37.55	58.77	-21.22	QP
6	0.3580	4.35	19.36	23.71	48.77	-25.06	AVG
7	0.4580	17.03	19.35	36.38	56.73	-20.35	QP
8	0.4580	6.70	19.35	26.05	46.73	-20.68	AVG
9	0.6340	18.40	19.38	37.78	56.00	-18.22	QP
10	0.6340	11.07	19.38	30.45	46.00	-15.55	AVG
11	0.9140	15.01	19.40	34.41	56.00	-21.59	QP
12	0.9140	4.98	19.40	24.38	46.00	-21.62	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. Field Strength of Emissions

4.1 LIMIT

(a) According to § 15.245(b) and RSS-210 F.1 (a): The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (millivolts/meter)
902-928	500	1.6
2435-2465	500	1.6
5785-5815	500	1.6
10500-10550	2500	25.0
24075-24175	2500	25.0

(b) Regardless of the limits shown in the above table, harmonic emissions in the restricted bands below 17.7GHz, as specified in § 15.205 and RSS-Gen, shall not exceed the field strength limits shown in § 15.209 and RSS-Gen. Harmonic emissions in the restricted bands at and above 17.7 GHz shall not exceed the following field strength limits:

(i) For the second and third harmonics of field disturbance sensors operating in the 24075-24175 MHzband and for other field disturbance sensors designed for use only within a building or to open building doors, 25.0 mV/m.

(ii) For all other field disturbance sensors, 7.5 mV/m.

(iii) Field disturbance sensors designed to be used in motor vehicles or aircraft must include features to prevent continuous operation unless their emissions in the restricted bands, other than the second and third harmonics from devices operating in the 24075-24175 MHz band, fully comply with the limits given in § 15.209 and RSS-Gen. Continuous operation of field disturbance sensors designed to be used in farm equipment, vehicles such as fork lifts that are intended primarily for use indoors or for very specialized operations, or railroad locomotives, railroad cars and other equipment which travels on fixed tracks is permitted. A field disturbance sensor will be considered not to be operating in a continuous mode if its operation is limited to specific activities of limited duration (e.g., putting a vehicle into reverse gear, activating a turn signal, etc.).

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 (Above 1000MHz)

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

Note:

- (1) The limit for radiated test was performed according to FCC PART 15.245
- (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			

(c) Field strength limits are specified at a distance of 3 meters.

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209 and RSS-Gen, whichever is the lesser attenuation.

(e) The emission limits shown above are based on measurement instrumentation employing an average detector. The provisions in § 15.35 and RSS-Gen for limiting peak emissions apply.



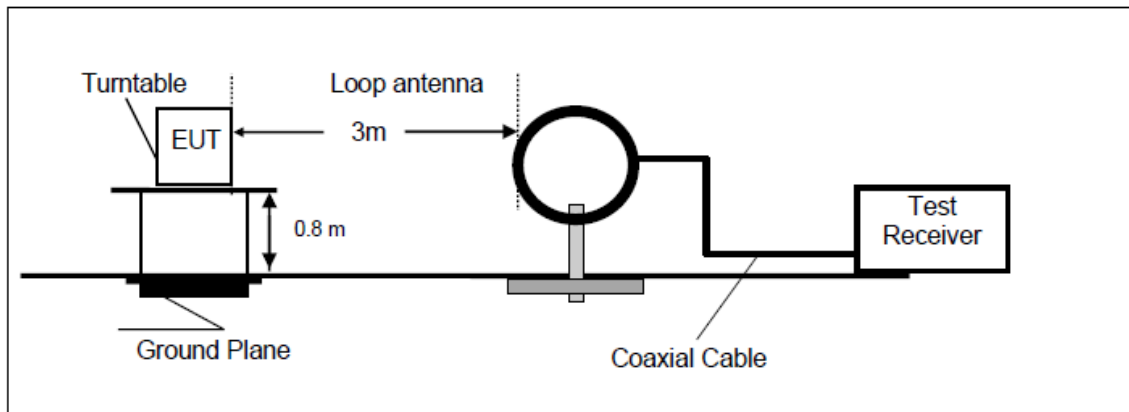
4.2 TEST PROCEDURE

- a. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Below 1GHz)
- b. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Above 1GHz)
- c. The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. All readings are peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading complies with the QP limits and then QP Mode measurement didn't perform (Below 1GHz)
- f. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value complies with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform. (Above 1GHz)
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.

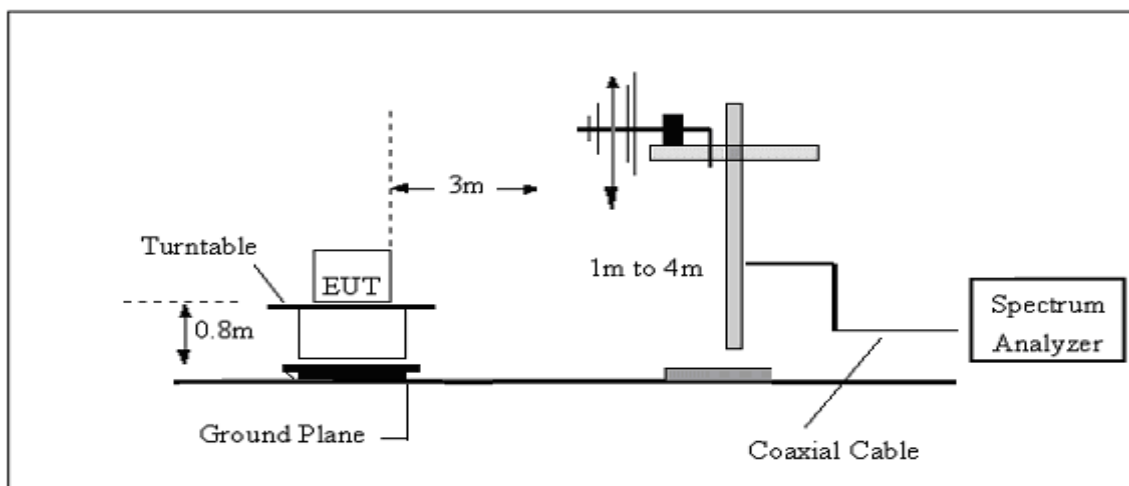
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axes. The worst case emissions were reported.

4.3 TEST SETUP

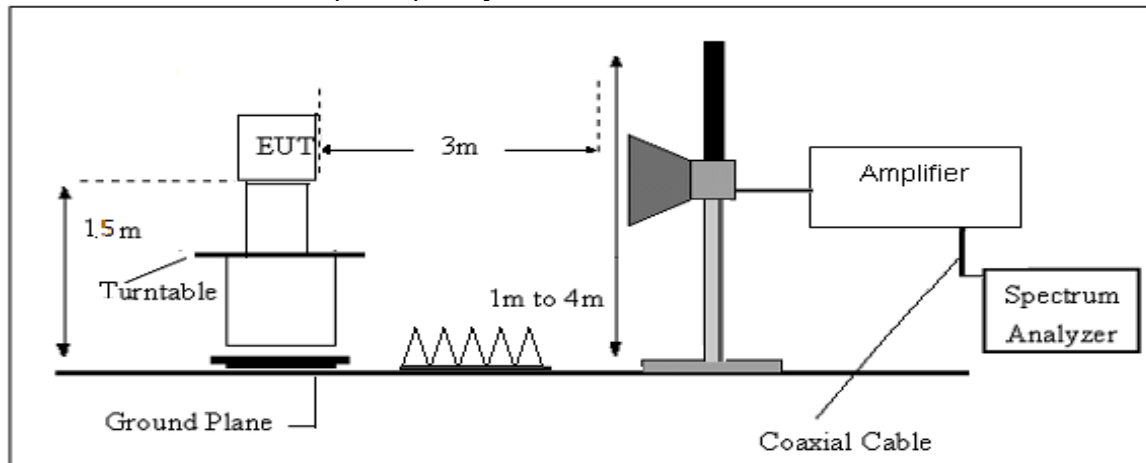
(A) Radiated Emission Test-Up Frequency 9 KHz – 30MHz



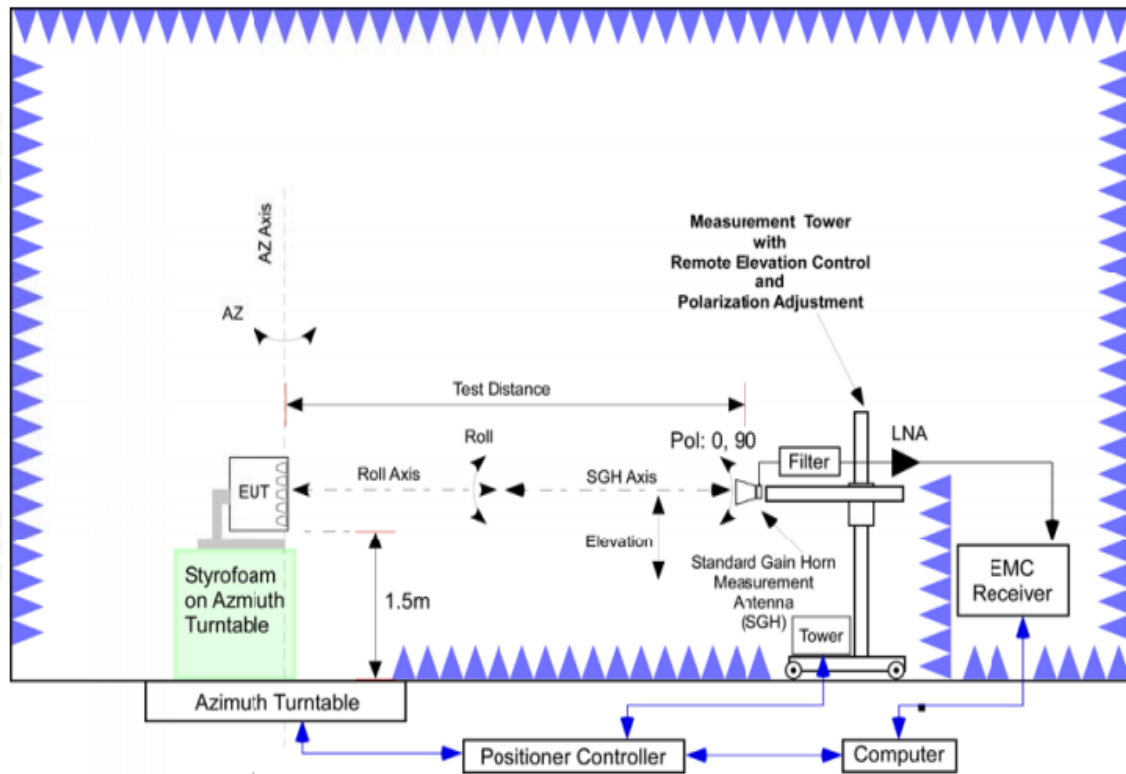
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency 1GHz~18GHz



(D) Radiated Emission Test-Up Frequency 18GHz~200GHz



4.4 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

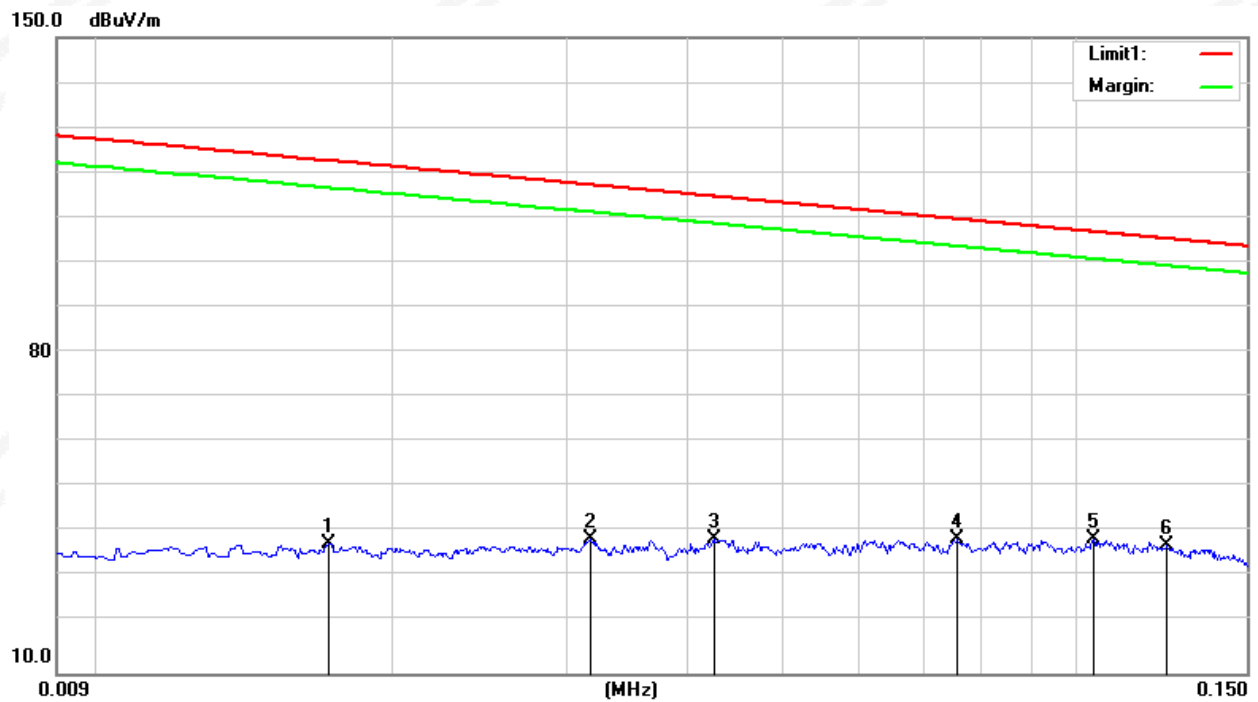
For example

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

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

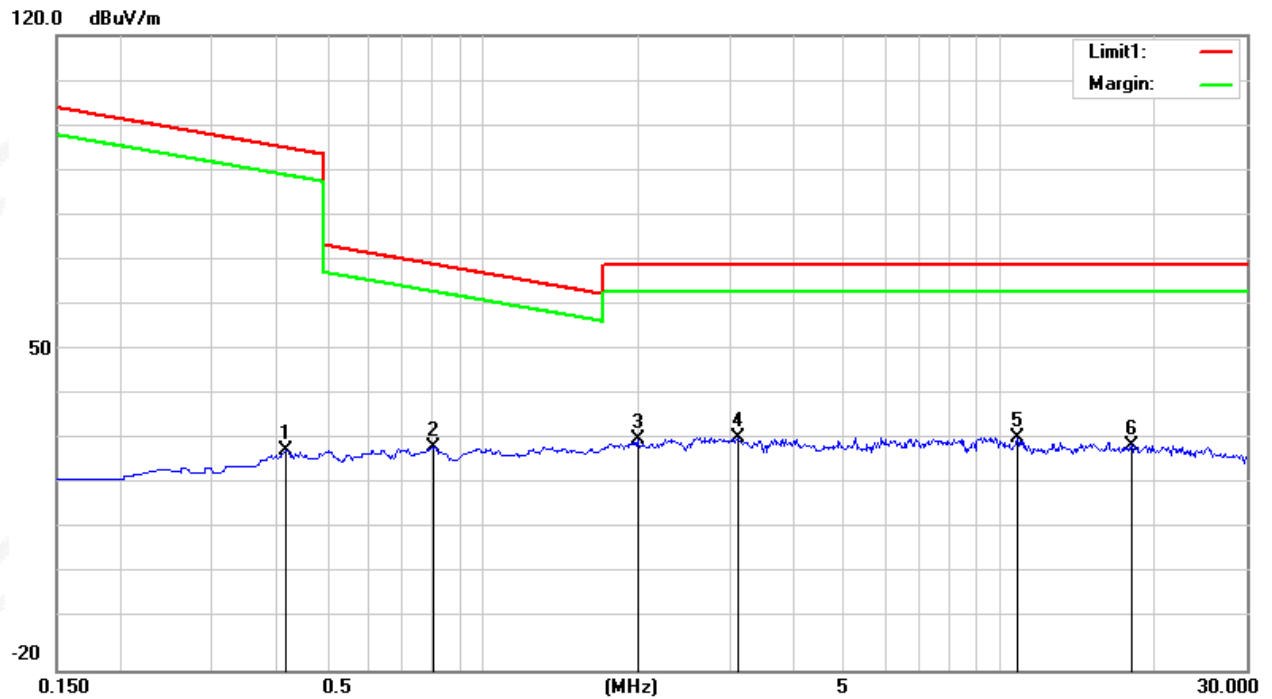
4.5 TEST RESULTS

RSE-9KHz-150KHz



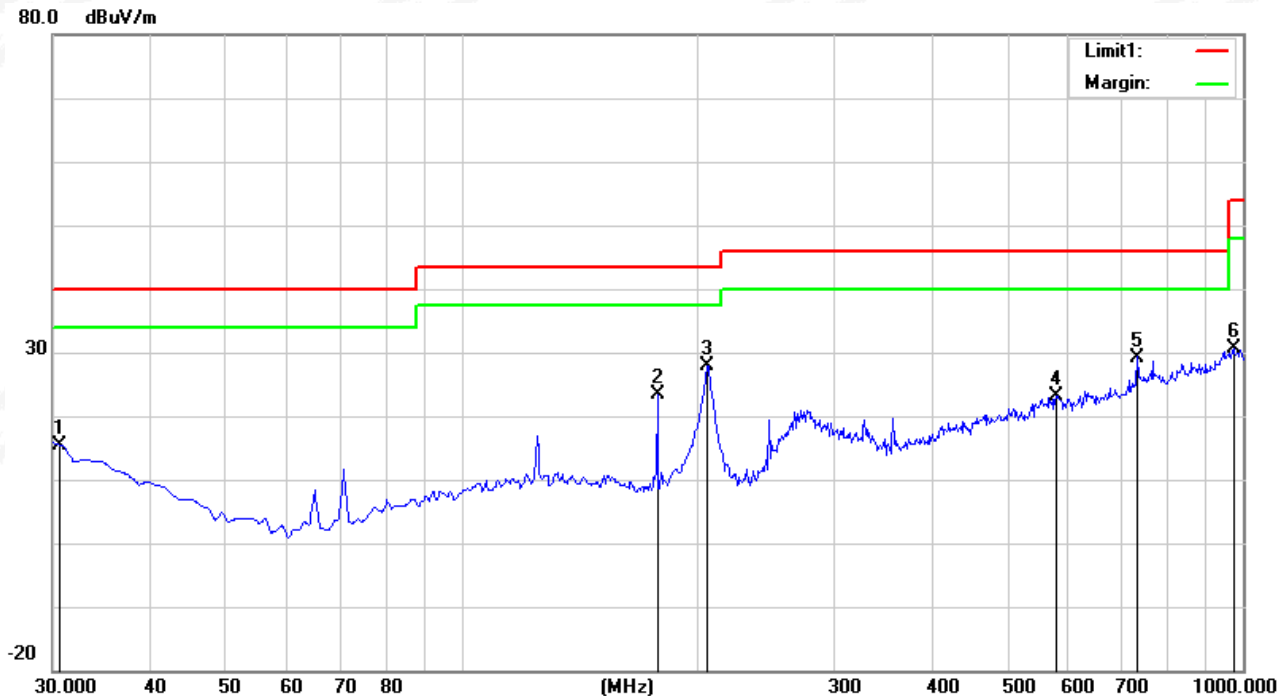
No.	Frequency (KHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0171	18.51	19.89	38.40	122.94	-84.54	peak
2	0.0318	19.62	19.86	39.48	117.56	-78.08	peak
3	0.0425	20.01	19.65	39.66	115.04	-75.38	peak
4	0.0758	20.70	18.76	39.46	110.01	-70.55	peak
5	0.1043	21.87	17.59	39.46	107.24	-67.78	peak
6	0.1242	20.53	17.55	38.08	105.72	-67.64	peak

RSE-150KHz-30MHz



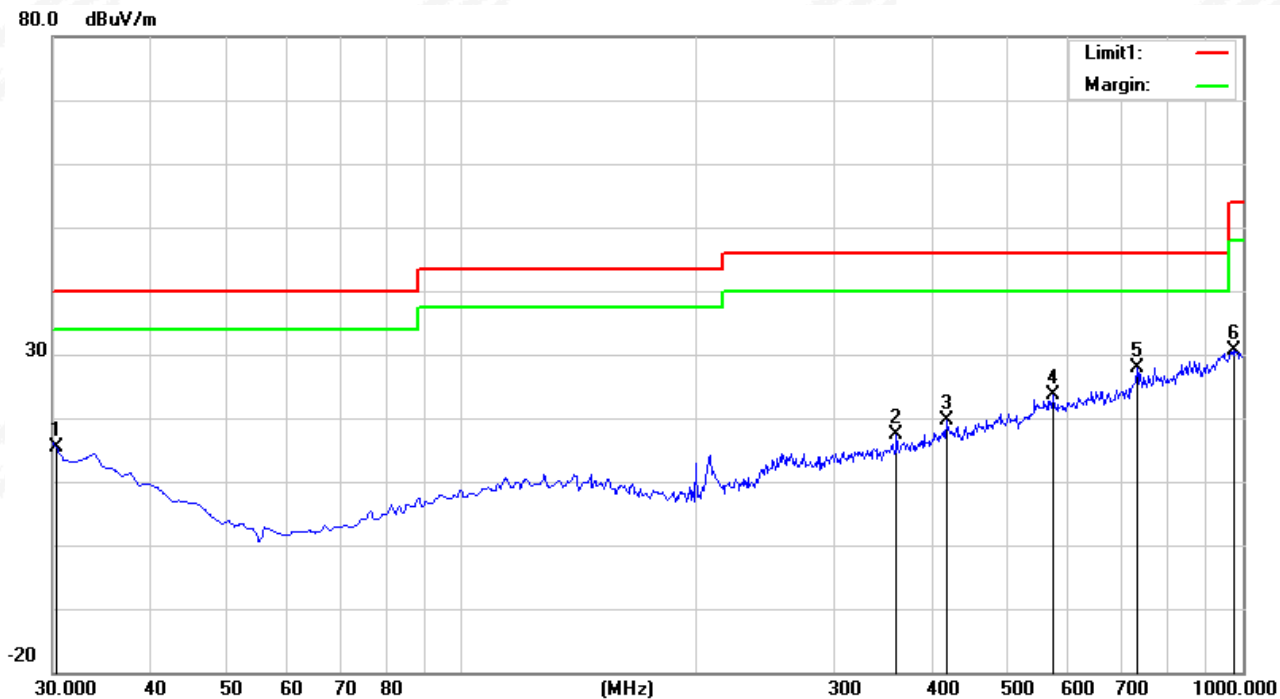
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.4187	8.44	20.17	28.61	95.17	-66.56	peak
2	0.8064	8.95	20.28	29.23	69.47	-40.24	peak
3	2.0007	10.47	20.40	30.87	69.50	-38.63	peak
4	3.1350	11.11	20.14	31.25	69.50	-38.25	peak
5	10.8063	11.01	20.38	31.39	69.50	-38.11	peak
6	18.0301	7.67	22.03	29.70	69.50	-39.80	peak

30MHz – 1000MHz
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.6380	28.67	-13.18	15.49	40.00	-24.51	peak
2	178.4100	43.29	-20.02	23.27	43.50	-20.23	peak
3	206.5400	48.62	-20.63	27.99	43.50	-15.51	peak
4	578.0500	28.81	-5.73	23.08	46.00	-22.92	peak
5	733.2500	31.60	-2.35	29.25	46.00	-16.75	peak
6	974.7800	28.36	2.32	30.68	54.00	-23.32	peak

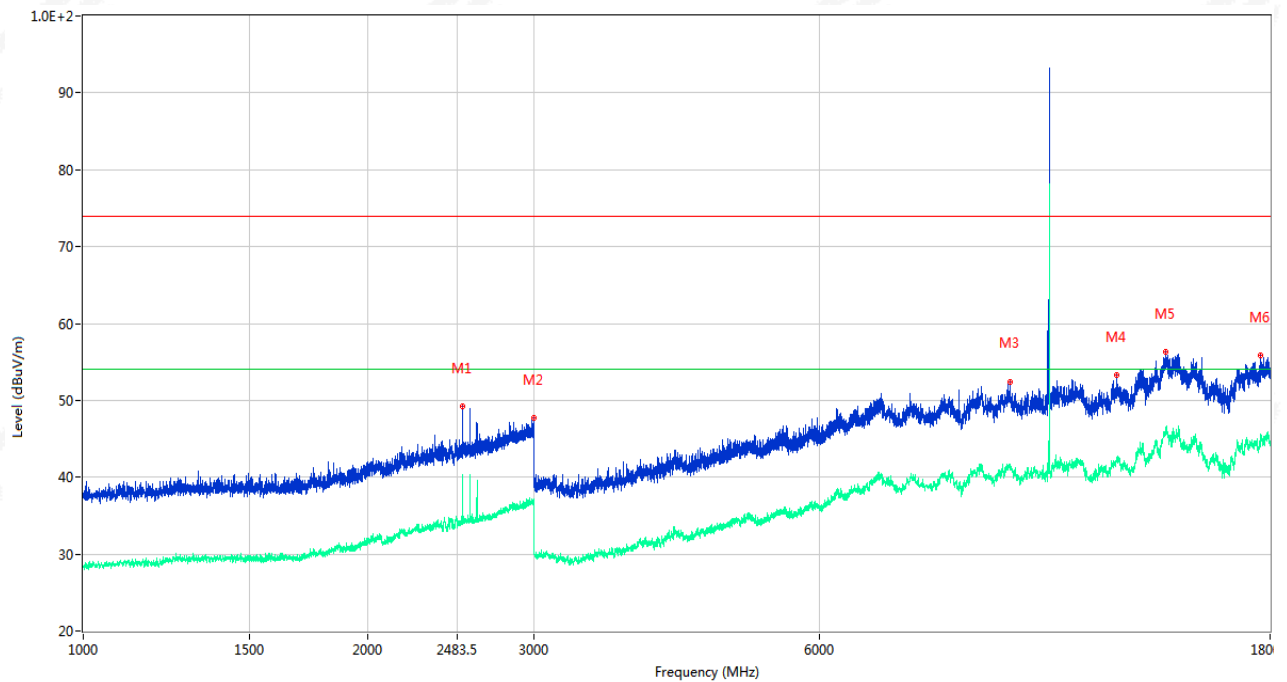
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.3173	28.40	-13.01	15.39	40.00	-24.61	peak
2	360.7700	30.20	-12.84	17.36	46.00	-28.64	peak
3	418.0000	29.86	-10.18	19.68	46.00	-26.32	peak
4	573.2000	29.20	-5.65	23.55	46.00	-22.45	peak
5	733.2500	30.21	-2.35	27.86	46.00	-18.14	peak
6	975.7500	28.29	2.38	30.67	54.00	-23.33	peak

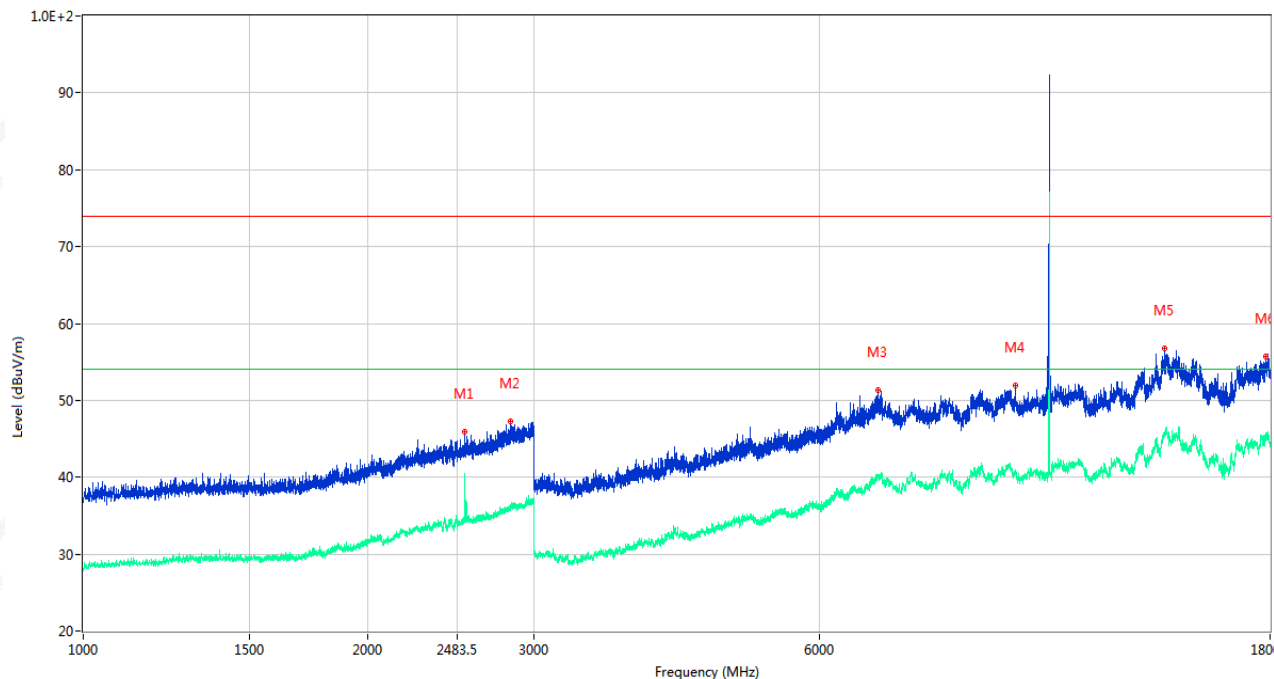


Above 1G Radiation Spurious

1GHz - 18GHz
Horizontal

No	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2521.000	49.27	3.31	68.2	-18.93	Peak	174.90	Horizontal	Pass
1**	2521.000	37.50	3.31	54.0	-16.50	AV	174.90	Horizontal	Pass
2	2997.000	47.66	5.45	68.2	-20.54	Peak	268.70	Horizontal	Pass
2**	2997.000	36.74	5.45	54.0	-17.26	AV	268.70	Horizontal	Pass
3	9546.500	52.45	1.09	68.2	-15.75	Peak	94.90	Horizontal	Pass
3**	9546.500	41.64	1.09	54.0	-12.36	AV	94.90	Horizontal	Pass
4	12390.000	53.32	3.16	74.0	-20.68	Peak	0.60	Horizontal	Pass
4**	12390.000	42.28	3.16	54.0	-11.72	AV	0.60	Horizontal	Pass
5	13976.750	56.34	8.16	74.0	-17.66	Peak	0.00	Horizontal	Pass
5**	13976.750	46.51	8.16	54.0	-7.49	AV	0.00	Horizontal	Pass
6	17601.249	55.84	6.60	74.0	-18.16	Peak	150.00	Horizontal	Pass
6**	17601.249	45.60	6.60	54.0	-8.40	AV	150.00	Horizontal	Pass

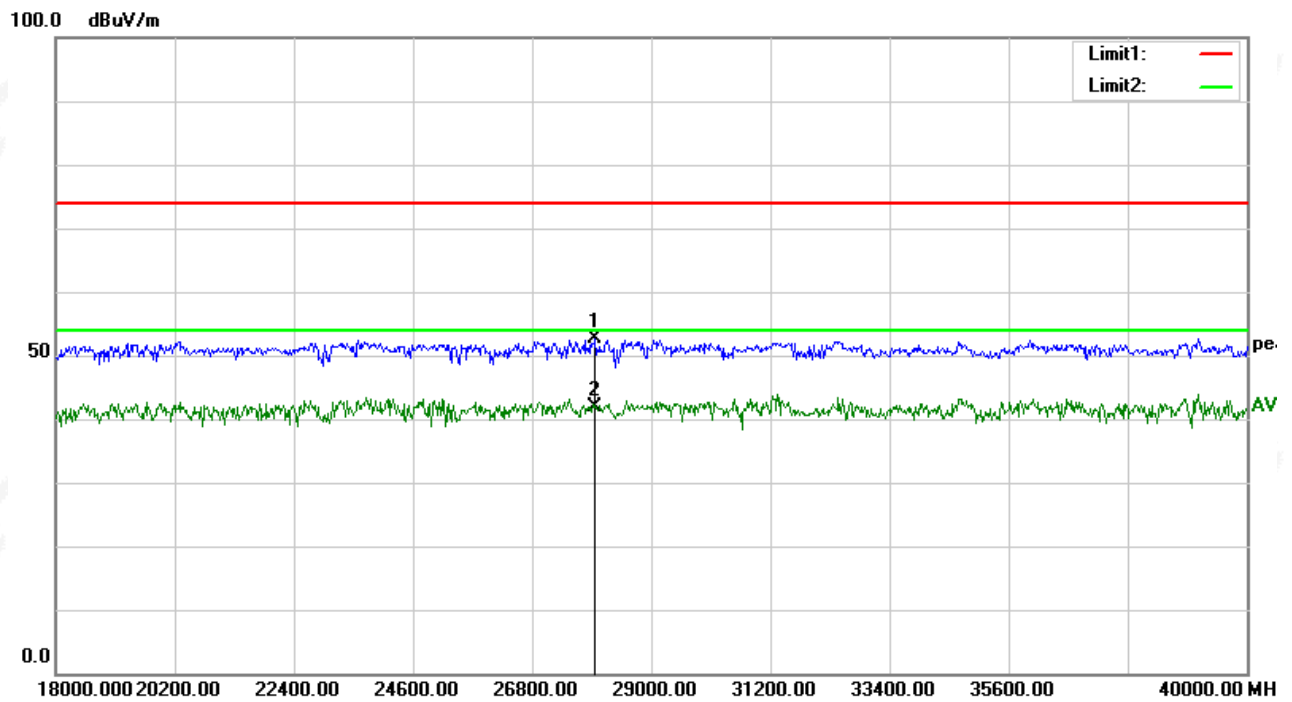
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2534.000	45.86	3.42	68.2	-22.34	Peak	129.00	Vertical	Pass
1**	2534.000	40.55	3.42	54.0	-13.45	AV	129.00	Vertical	Pass
2	2830.500	47.25	4.90	74.0	-26.75	Peak	341.00	Vertical	Pass
2**	2830.500	36.13	4.90	54.0	-17.87	AV	341.00	Vertical	Pass
3	6925.000	51.34	0.71	74.0	-22.66	Peak	5.00	Vertical	Pass
3**	6925.000	39.87	0.71	54.0	-14.13	AV	5.00	Vertical	Pass
4	9670.250	51.91	0.58	74.0	-22.09	Peak	311.60	Vertical	Pass
4**	9670.250	40.96	0.58	54.0	-13.04	AV	311.60	Vertical	Pass
5	13927.250	56.73	7.54	74.0	-17.27	Peak	163.90	Vertical	Pass
5**	13927.250	45.68	7.54	54.0	-8.32	AV	163.90	Vertical	Pass
6	17799.250	55.76	6.38	74.0	-18.24	Peak	135.60	Vertical	Pass
6**	17799.250	45.65	6.38	54.0	-8.35	AV	135.60	Vertical	Pass

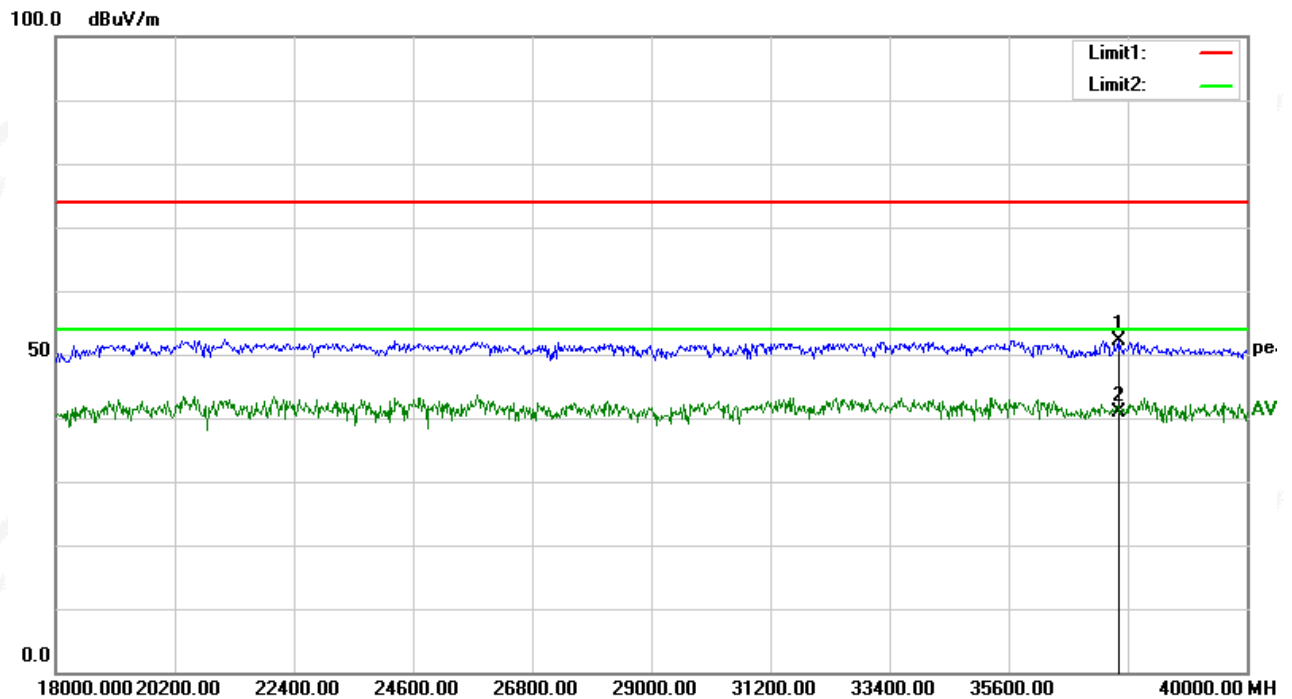


18 GHz - 40GHz
Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	27966.000	45.37	7.32	52.69	74.00	-21.31	peak
2	27966.000	34.47	7.32	41.79	54.00	-12.21	AVG

Vertical



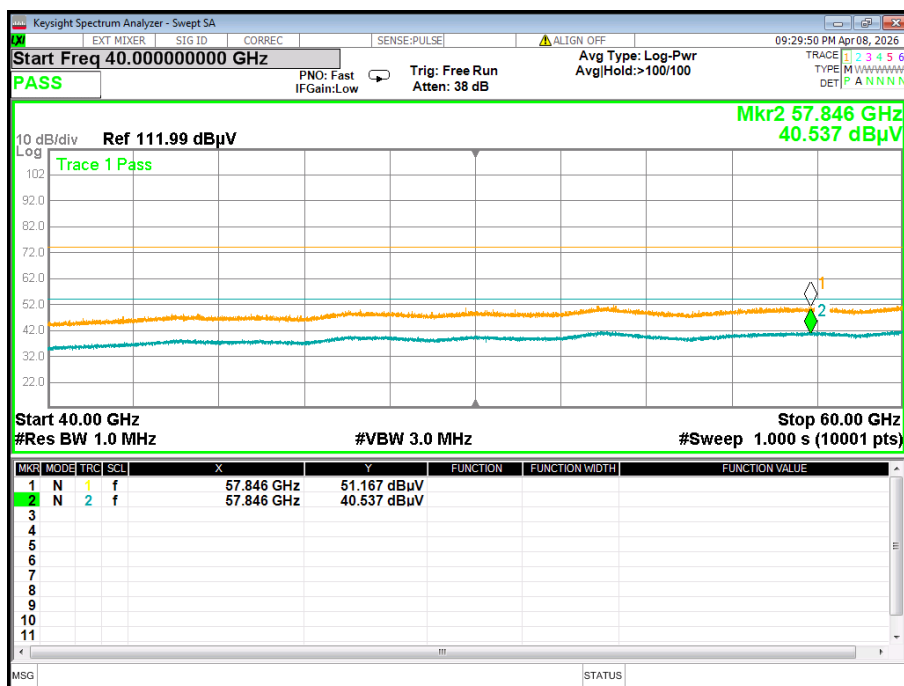
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	37624.000	45.13	7.11	52.24	74.00	-21.76	peak
2	37624.000	33.79	7.11	40.90	54.00	-13.10	AVG



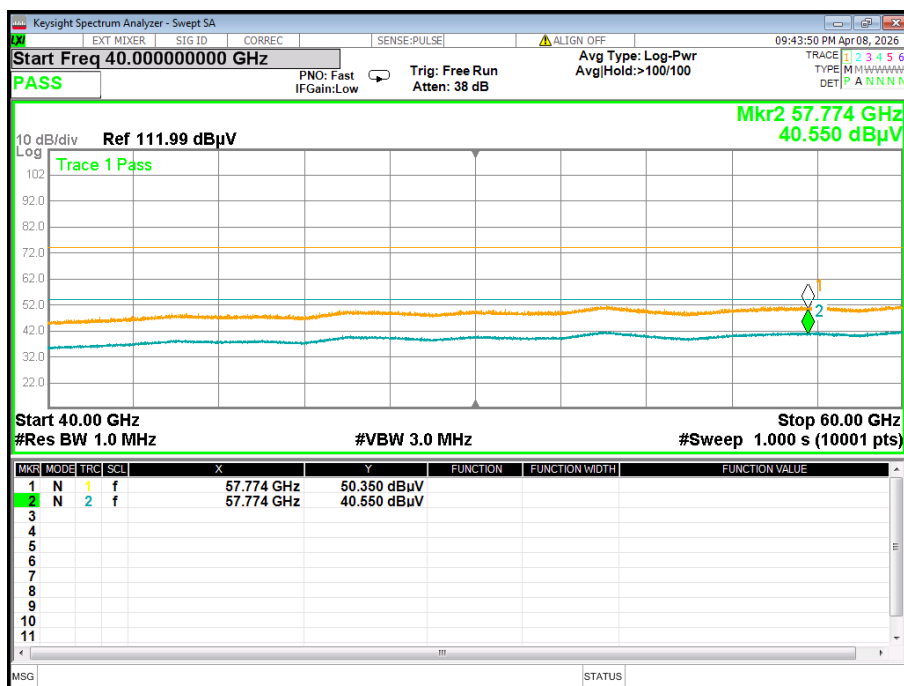
Above 40GHz

Frequency	Result	Limit	Margin	Remark	Polarity
(GHz)	(dBuV/m)	(dBuV/m)	(dB)		
57.8460	51.17	74.00	-22.83	peak	Horizontal
57.8460	40.54	54.00	-13.46	AVG	Horizontal
57.7740	50.35	74.00	-23.65	peak	Vertical
57.7740	40.55	54.00	-13.45	AVG	Vertical
73.0020	52.49	74.00	-21.51	peak	Horizontal
73.0020	42.40	54.00	-11.60	AVG	Horizontal
73.1130	52.76	74.00	-21.24	peak	Vertical
73.1130	42.25	54.00	-11.75	AVG	Vertical
77.0525	52.36	74.00	-21.64	peak	Horizontal
77.0525	42.54	54.00	-11.46	AVG	Horizontal
76.9875	53.00	74.00	-21.00	peak	Vertical
76.9875	42.61	54.00	-11.39	AVG	Vertical

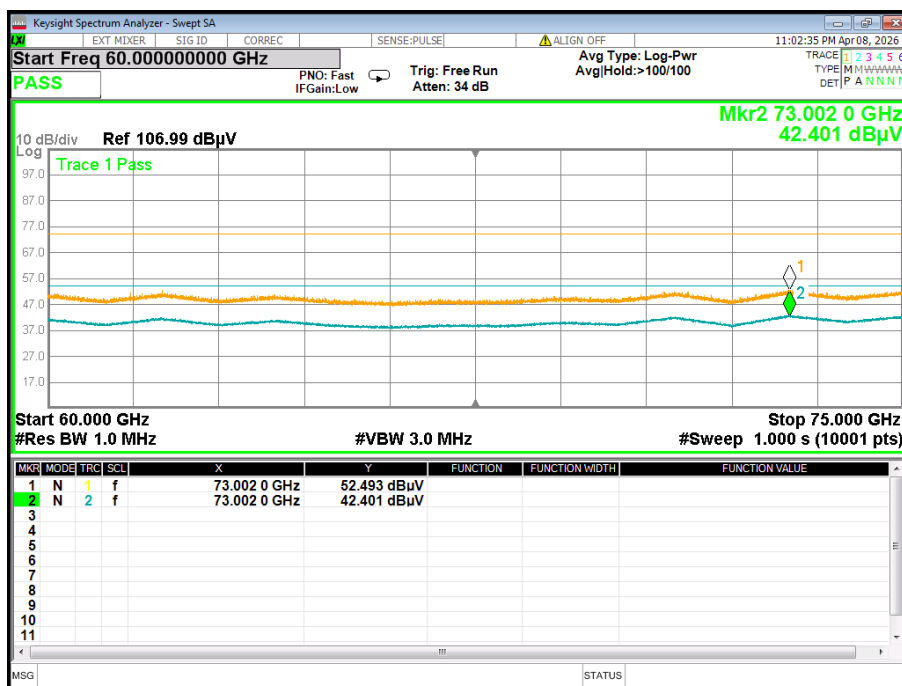
40GHz - 60GHz- Horizontal



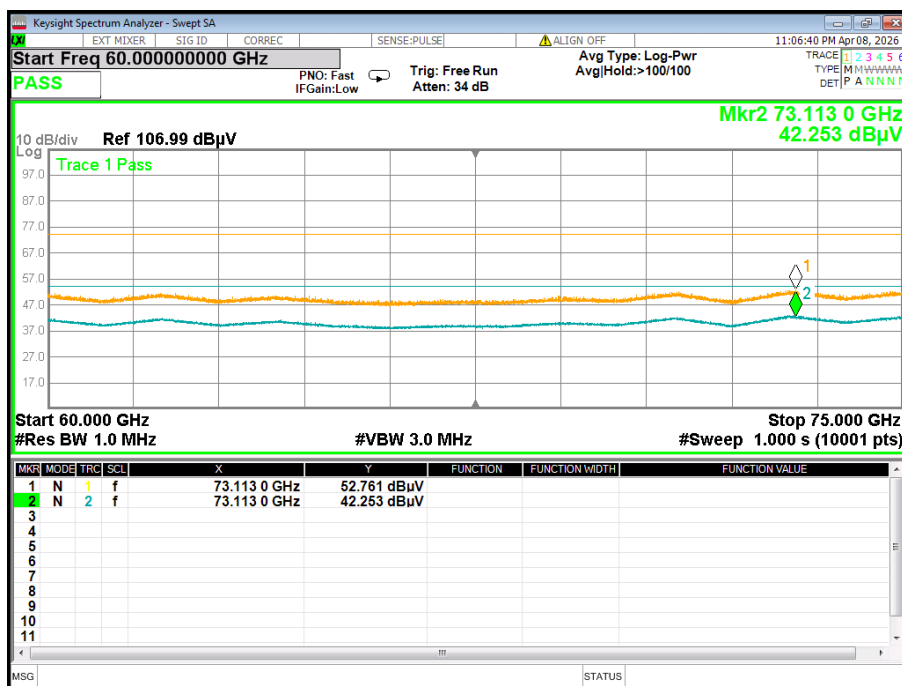
40GHz - 60GHz- Vertical



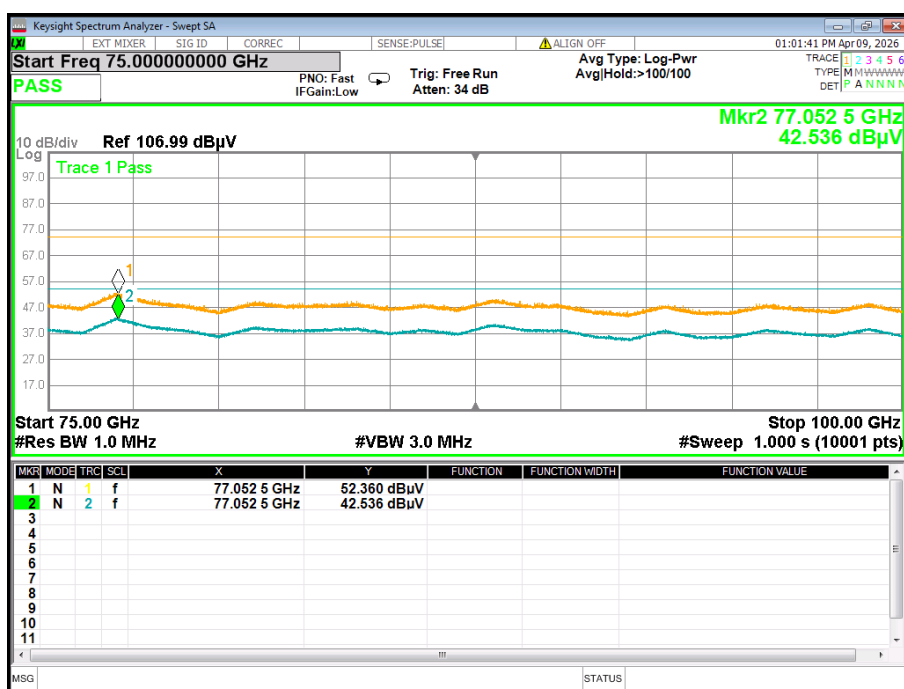
60GHz - 75GHz- Horizontal



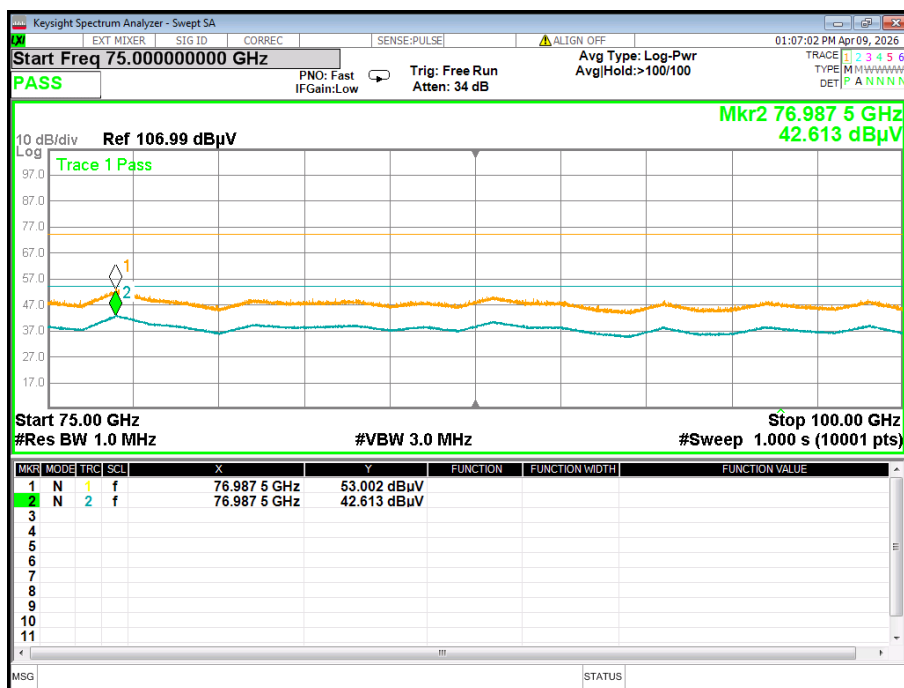
60GHz - 75GHz- Vertical



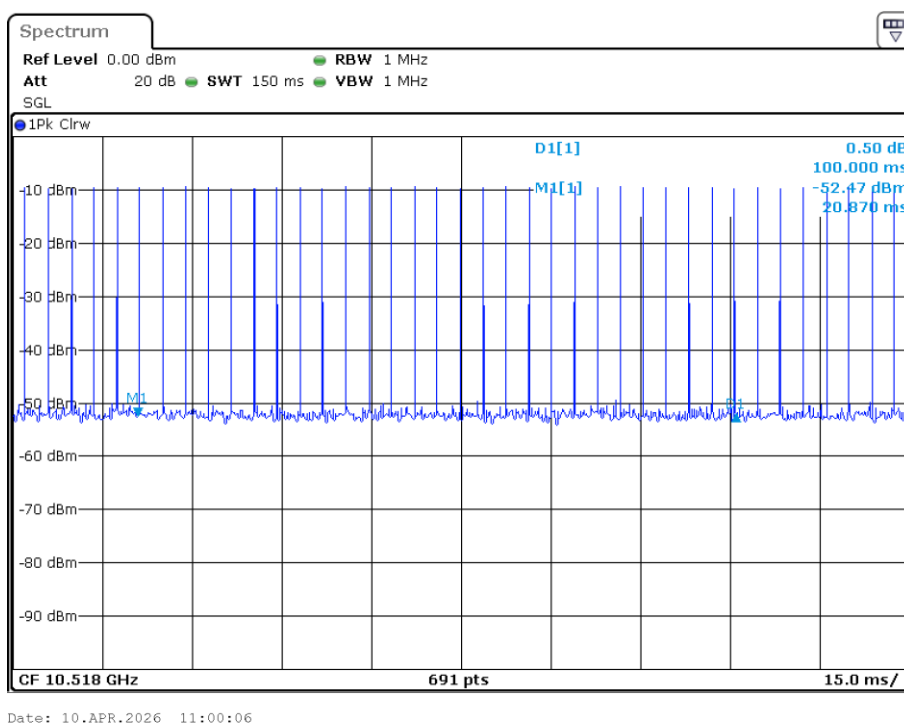
75GHz - 100GHz- Horizontal



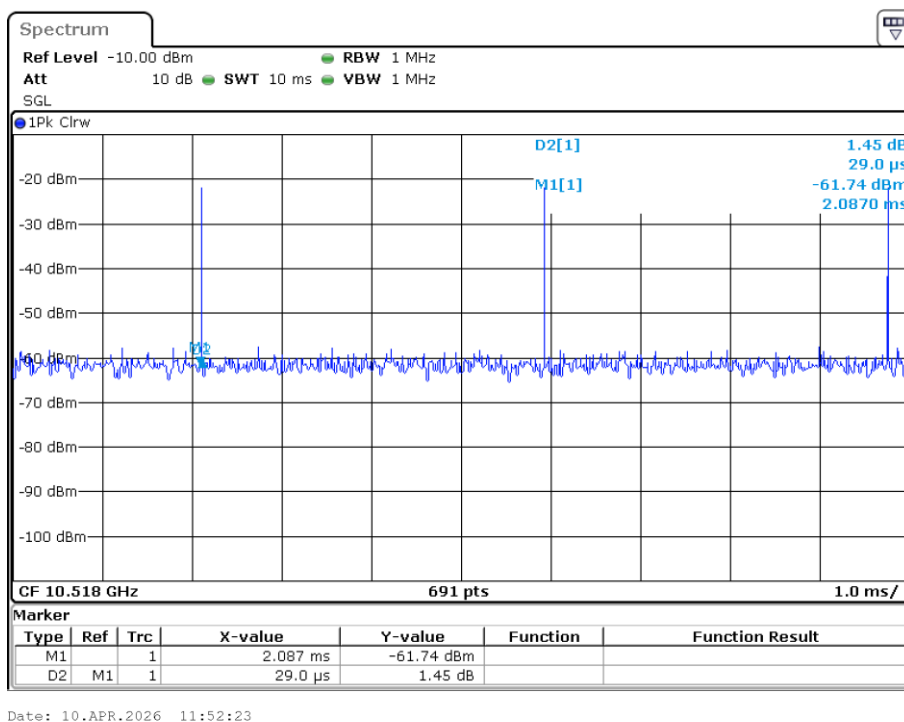
75GHz - 100GHz- Vertical



Duty cycle-1



Duty cycle-2



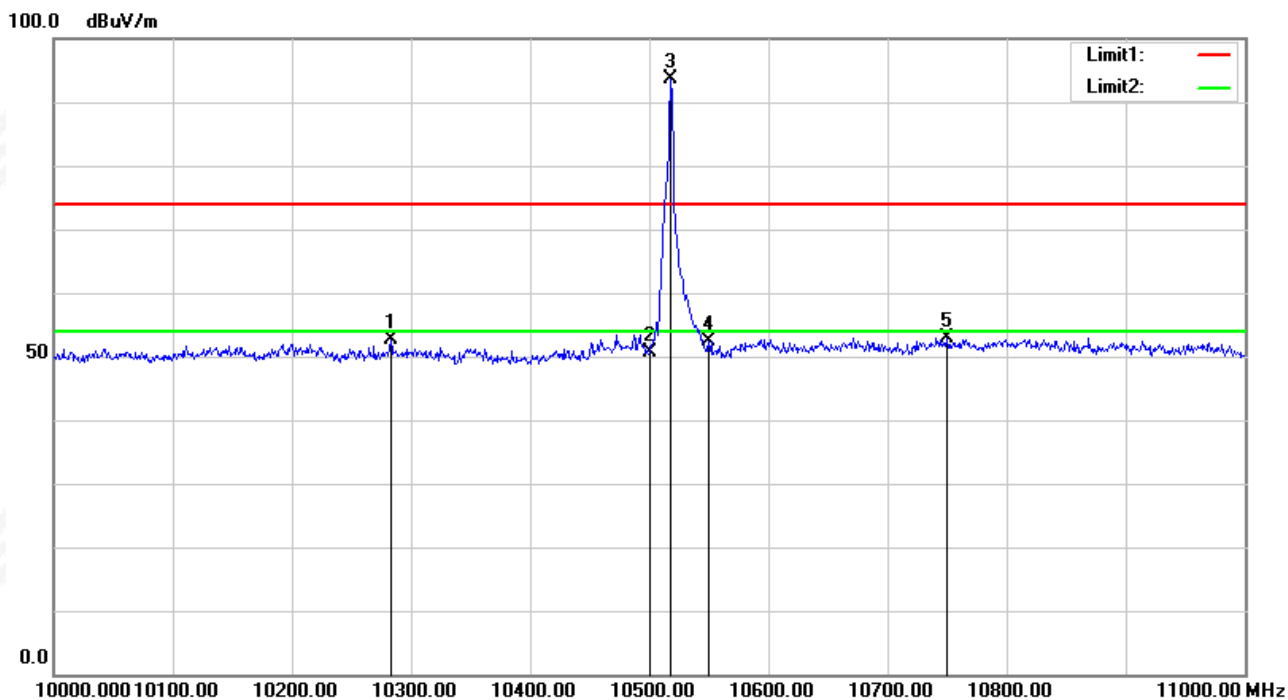
Ton (ms)	Tp (ms)	Duty Cycle (%)	Duty Factor
0.783	100	0.78	-42.12

Note:

- Number of pulse train 1 = 27, Time of single pulse train 1 = 0.029ms;
Number of pulse train 1x Time of single pulse train=27*0.029ms=0.783 ms
- Duty Factor=20*LOG10((Ton/Tp))

Radiation Restricted band&EIRP

RSE- Horizontal

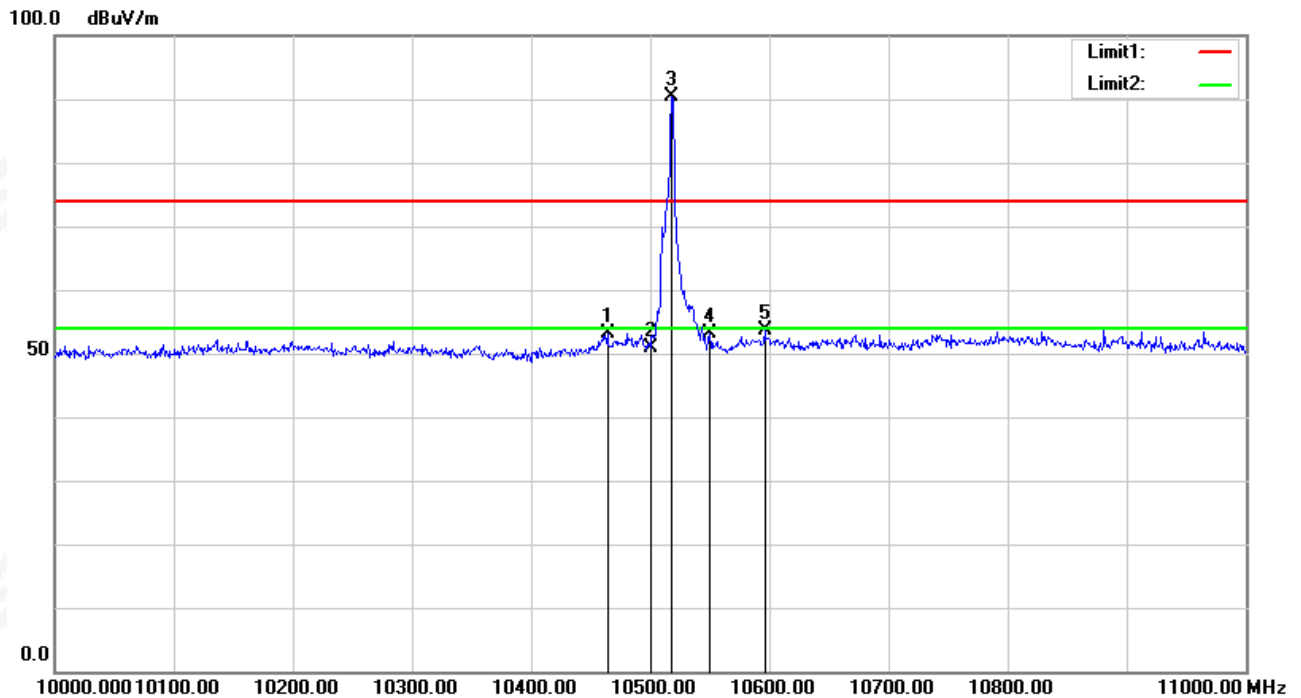


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10283.000	52.35	0.34	52.69	74.00	-21.31	peak
2	10500.000	49.43	1.29	50.72	74.00	-23.28	peak
4	10550.000	50.70	1.56	52.26	74.00	-21.74	peak
5	10750.000	51.35	1.60	52.95	74.00	-21.05	peak

Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3	10518.000	92.33	1.39	-	93.72	147.96	- 54.24	peak
3	10518.000	92.33	1.39	-42.12	51.60	127.96	- 76.36	AV

RSE- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10464.000	52.07	0.99	53.06	74.00	-20.94	peak
2	10500.000	49.57	1.29	50.86	74.00	-23.14	peak
4	10550.000	51.61	1.56	53.17	74.00	-20.83	peak
5	10596.000	51.72	1.79	53.51	74.00	-20.49	peak

Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3	10518.000	89.07	1.39	-	90.46	147.96	-57.5	peak
3	10518.000	89.07	1.39	-42.12	48.34	127.96	-79.62	AV

5. OCCUPIED BANDWIDTH

5.1 LIMIT

The occupied bandwidth is defined as the 99% bandwidth.

According to § 2.1049 and RSS-Gen section 6.7: The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

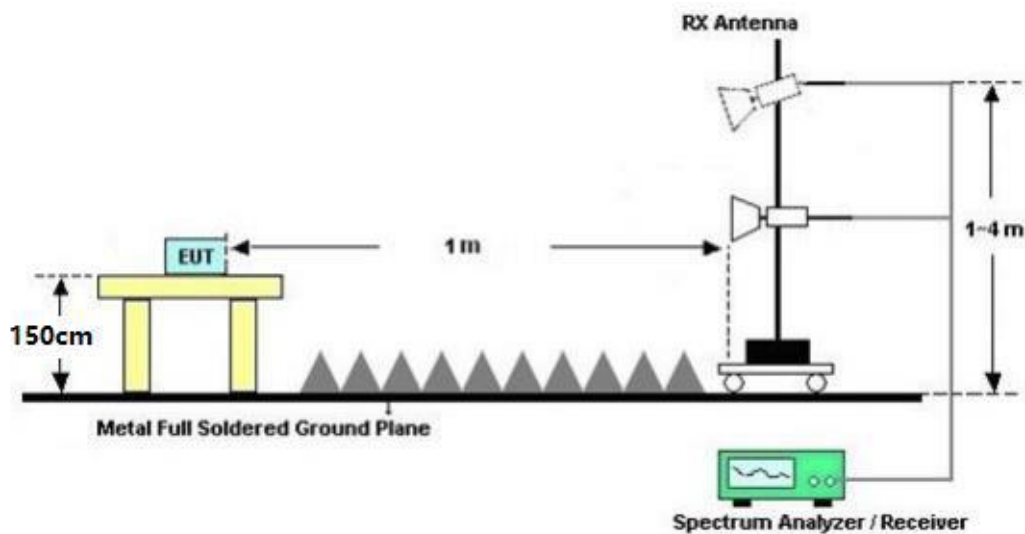
The occupied bandwidth is defined as the 20dB bandwidth.

According to § 15.215 (c): Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

5.2 TEST PROCEDURE

- a. The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer
- b. If the EUT is a tabletop system, 1.5 m height is used.
- c. If the EUT is a floor standing device, it is placed directly on the turntable.
- d. Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C63.4.
- e. The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- f. Measurement distance is 1m (see ANSI C63.4) – see test details.
- g. EUT is set into operation.
- h. The turntable rotates from 0 degree to 360 degree.
- i. The antenna with external mixer is polarized vertical and horizontal.
- j. The antenna height changes from 1m to 4m.
- k. Set the resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

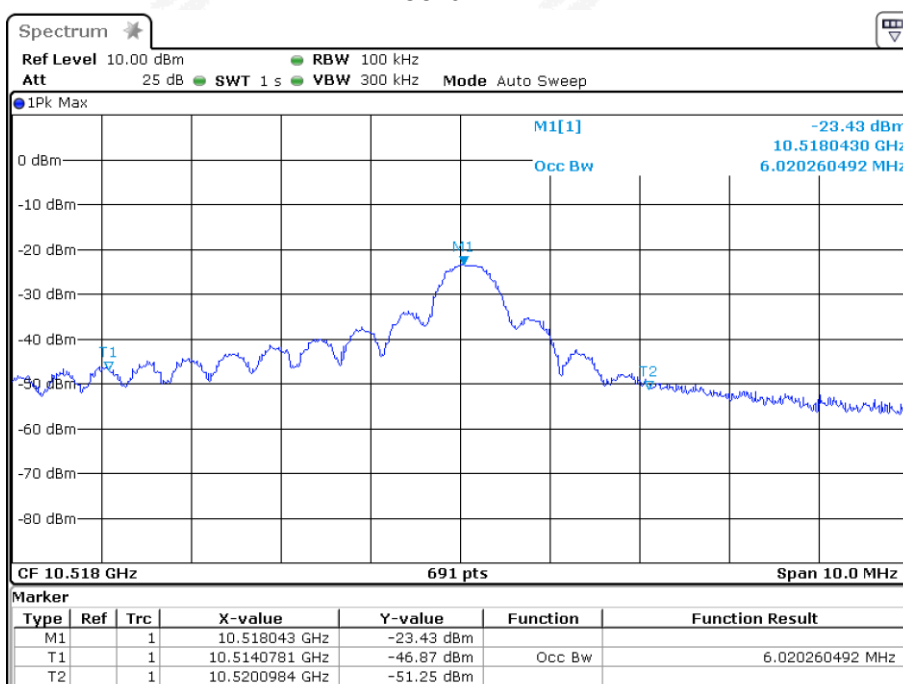
5.3 TEST SETUP



5.4 TEST RESULT

Lowest Frequency(GHz)	Highest Frequency(GHz)	99%Bandwidth (GHz)	Limit (GHz)	Result
10.514	10.520	0.006	10.5- 10.55	Pass

99% BW

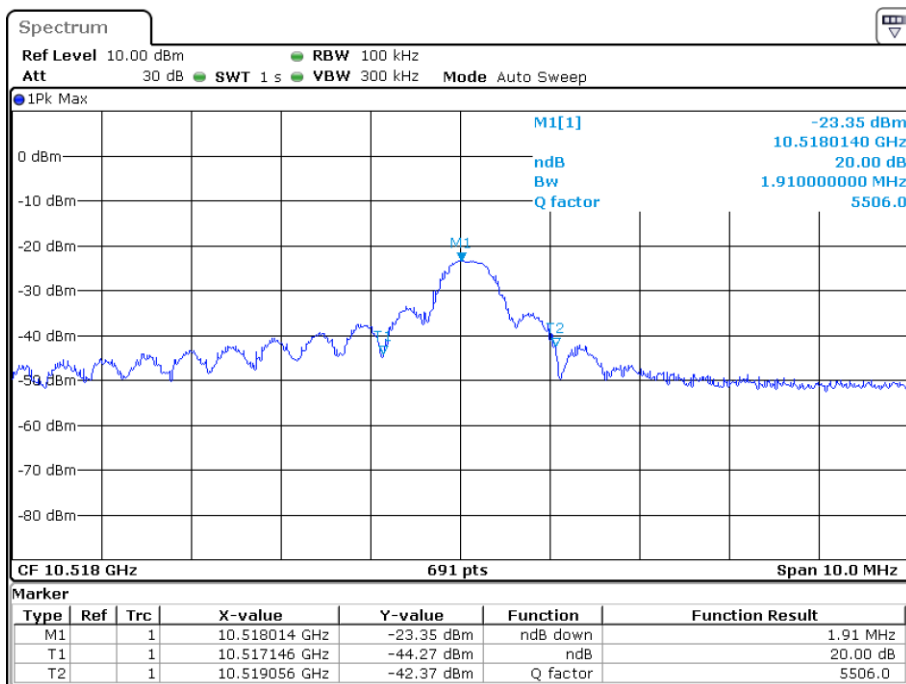


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Lowest Frequency(GHz)	Highest Frequency(GHz)	20dB Bandwidth (GHz)	Limit (GHz)	
10.5171	10.5190	0.0019	10.5- 10.55	Pass

20dB BW



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6. ANTENNA REQUIREMENT

6.1 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.

6.2 EUT ANTENNA

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



7. PHOTOS OF TEST SETUP

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

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