

FCC Radio Test Report

FCC ID: 2A2PC-T1**The report concerns: Original Grant**

Report Reference No.....: 21EFSS07040 05891
Date Sample(s) Received.....: 2021-07-12
Date of Tested.....: 2021-07-12 to 2021-07-30
Date of issue.....: 2021-07-30
Testing Laboratory: DongGuanShuoXin Electronic Technology Co., Ltd.
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GuangDong, China

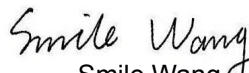
Applicant's name: SHEN ZHEN LIAN JI XING TECHNOLOGY CO.,LTD
701, Factory Building 322, First Industrial Zone,
Address: Xitou Community, Songgang Street,Baoan District,
Shenzhen, Guangdong
Manufacturer.....: SHEN ZHEN LIAN JI XING TECHNOLOGY CO.,LTD

Equipment.....: Wireless Display Receiver
Trade Mark: /
Model: See the page 4
Ratings: I/P: DC 5V

Test Engineer:


Blue Qiu

Responsible Engineer :


Smile Wang

Authorized Signatory:

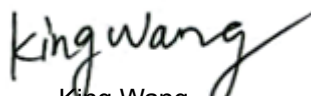

King Wang

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1TEST REPORT DECLARE

Applicant	SHEN ZHEN LIAN JI XING TECHNOLOGY CO.,LTD
Address	701, Factory Building 322, First Industrial Zone, Xitou Community, Songgang Street,Baoan District, Shenzhen, Guangdong
Manufacturer	Same as applicant
Address	Same as applicant
Factory	Same as applicant
Address	Same as applicant
Equipment	Wireless Display Receiver
Model No.	T1 T1-PRO T1-Mate T2 T2-PRO T2-Mate T3 T3-PRO T3-Mate T5 T5-PRO T5-Mate T6 T6-PRO T6-Mate T7 T7-PRO T7-Mate T8 T8-PRO T8-Mate T9 T9-PRO T9-Mate T10 T10-PRO T10-Mate T11 T11-PRO T11-Mate T12 T12-PRO T12-Mate T13 T13-PRO T13-Mate T15 T15-PRO T15-Mate T16 T16-PRO T16-Mate T17 T17-PRO T17-Mate T18 T18-PRO T18-Mate T19 T19-PRO T19-Mate T20 T20-PRO T20-Mate T21 T21-PRO T21-Mate T22 T22-PRO T22-Mate T23 T23-PRO T23-Mate T25 T25-PRO T25-Mate T26 T26-PRO T26-Mate T27 T27-PRO T27-Mate T28 T28-PRO T28-Mate T100 T200 T300 T500 T800
Trade Mark	/
Standard	FCC Part15, Subpart C (15.247) ANSI C63.10-2013

We Declare:

The equipment described above is tested by DongGuan ShuoXin Electronic Technology Co., Ltd(ATT). and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and DongGuan ShuoXin Electronic Technology Co., Ltd.(ATT) is assumed of full responsibility for the accuracy and completeness of these tests.

ATT is not responsible for the sampling stage, so the results only apply to the sample as received.

ATT's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. ATT shall have no liability for any declarations, inferences or generalizations drawn by the client or others from ATT issued reports.

2 SUMMARY OF TEST RESULTS

The EUT have been tested according to the applicable standards as referenced below:

Standard(s) Section		Test Item	Judgment	Remark
FCC	ISED			
15.207	-	AC Power Line Conducted Emissions	PASS	-----
15.247(d) 15.205(a) 15.209(a)	-	Radiated Emissions	PASS	-----
15.247(a)(2)	-	Bandwidth	PASS	-----
15.247(b)(3)	-	Maximum Output Power	PASS	-----
15.247(d)	-	Conducted Spurious Emission	PASS	-----
15.247(e)	-	Power Spectral Density	PASS	-----
-	-	Frequency Stability	PASS	-----
15.203	-	Antenna Requirement	PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

2.1 MEASUREMENT UNCERTAINTY

Test Item	Uncertainty
Uncertainty for Conduction emission test (9kHz-150kHz)	3.7 dB
Uncertainty for Conduction emission test (150kHz-30MHz)	3.3 dB
Uncertainty for Radiation Emission test (30MHz-200MHz)	4.60 dB (Polarize: V)
	4.60 dB (Polarize: H)
Uncertainty for Radiation Emission test (200MHz-1GHz)	6.10 dB (Polarize: V)
	5.08 dB (Polarize: H)
Uncertainty for Radiation Emission test (1GHz-6GHz)	5.01 dB (Polarize: V)
	5.01 dB (Polarize: H)
Uncertainty for Radiation Emission test (6GHz-18GHz)	5.26 dB (Polarize: V)
	5.26 dB (Polarize: H)
Uncertainty for Radiation Emission test (18GHz-40GHz)	5.06 dB (Polarize: V)
	5.06 dB (Polarize: H)
Uncertainty for radio frequency	$\pm 0.048\text{kHz}$
Uncertainty for conducted RF Power	$\pm 0.32\text{dB}$

Note:

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

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Display Receiver	
Brand Name	/	
Test Model	T1	
Series Model	See the page 4	
Model Difference(s)	Only the model name is different,the electrical circuit design,layout,components used and internal wiring are identical	
Hardware Version	V1.0	
Software Version	V1.0	
PowerSource	Supplied from DC.	
Power Rating	DC 5V	
Operation Frequency	IEEE 802.11b,802.11g,802.11n (HT20):2412 MHz~ 2462 MHz IEEE 802.11n (HT40):2422 MHz~ 2452 MHz	
Modulation Technology	IEEE 802.11b:DSSS IEEE 802.11g:OFDM IEEE 802.11n:OFDM	
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 150 Mbps	
Operating Mode	IEEE 802.11b:1TX IEEE 802.11g:1TX IEEE 802.11n (HT20):1TX IEEE 802.11n (HT40):1TX	
Antenna Information	Antenna Type:PCB	Maximum Peak Gain:3.6dBi
Max. Output Power	IEEE 802.11b: 20.36dBm(0.1086W) IEEE 802.11g: 24.18dBm(0.2618W) IEEE 802.11n (HT20):25.52dBm(0.3565W) IEEE 802.11n (HT40):23.74dBm(0.2366W)	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT has three model number of antenna, these antenna type are the same, the test was used maximum antenna gain of antenna.
3. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (HT20) CH03-CH09 for IEEE 802.11n (HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel03/06/09
Mode 5	TX N-20 MHz Mode Channel 06

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 5	TX N-20 MHz Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 5	TX N-20 MHz Mode Channel 06

Radiated emissions test- Above 1GHz	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel03/06/09

Conducted test	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel03/06/09

NOTE:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps)

802.11g mode: OFDM (6Mbps)

802.11n HT20 mode : BPSK (13Mbps)

802.11n HT40mode : BPSK (27Mbps)

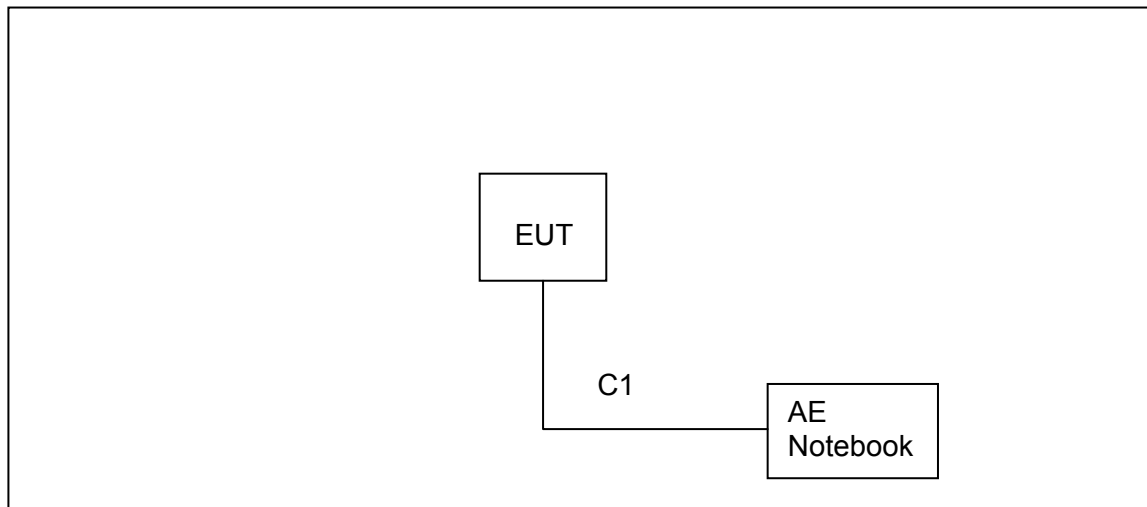
For radiated emission tests, the highest output powers were set for final test.

(3) For radiated emission below 1GHz and AC power line conducted emission test, the IEEE 802.11n20 channel 11 is found to be the worst case and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

Test Software	RTL8188		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	Default	Default	Default
IEEE 802.11g	Default	Default	Default
IEEE 802.11n (HT20)	Default	Default	Default
Test Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	Default	Default	Default

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
AE	Notebook	ACER	MS2367	32807810766

Item	Cable Type	Shielded Type	Ferrite Core	Length
C1	DC Cable	NO	NO	0.8m

3.6 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage
AC Power Line Conducted Emissions	25°C	53%	DC 5V
Radiated Emissions-9K-30MHz	25°C	60%	DC 5V
Radiated Emissions-30 MHz to 1GHz	24°C	68%	DC 5V
Radiated Emissions-Above 1000 MHz	24°C	68%	DC 5V
Bandwidth	24.8°C	40.9%	DC 5V
Maximum Output Power	24.8°C	40.9%	DC 5V
Conducted Spurious Emission	24.8°C	40.9%	DC 5V
Power Spectral Density	24.8°C	40.9%	DC 5V

3.7DUTY CYCLE

All tests were performed under the condition of 100% Duty Cycle

4AC POWER LINE CONDUCTED EMISSIONS TEST**4.1LIMIT**

Frequency of Emission (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 -0.50	66to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

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

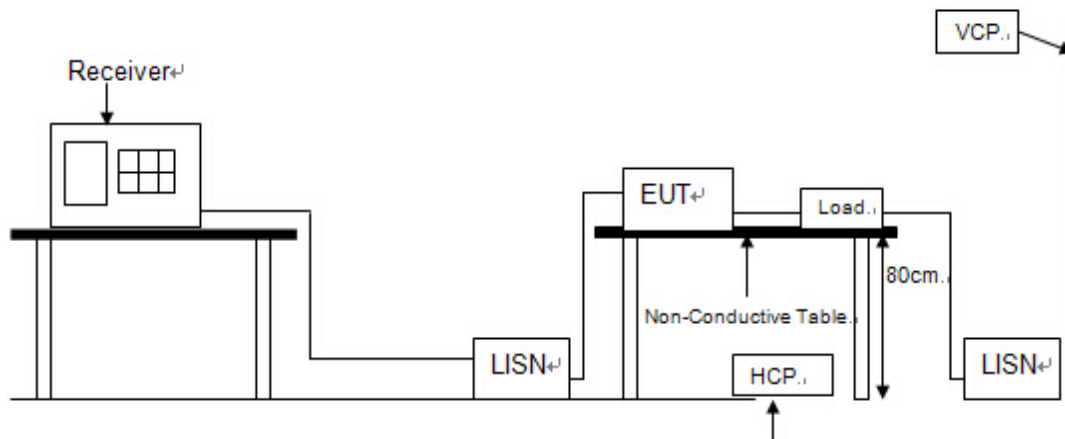
4.2TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the groundplane 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 at least 80 cm from nearest part of EUT chassis.

4.3MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Pulse Limiter	MTS-systemtechnik	MTS-IMP-136	261115-010-0024	12/11/2021
2	EMI Test Receiver	R&S	ESCI	101308	12/12/2021
3	LISN	AFJ	LS16	16011103219	06/09/2022
4	LISN	Schwarzbeck	NSLK 8127	8127-432	12/11/2021
5	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

4.4 TEST SETUP

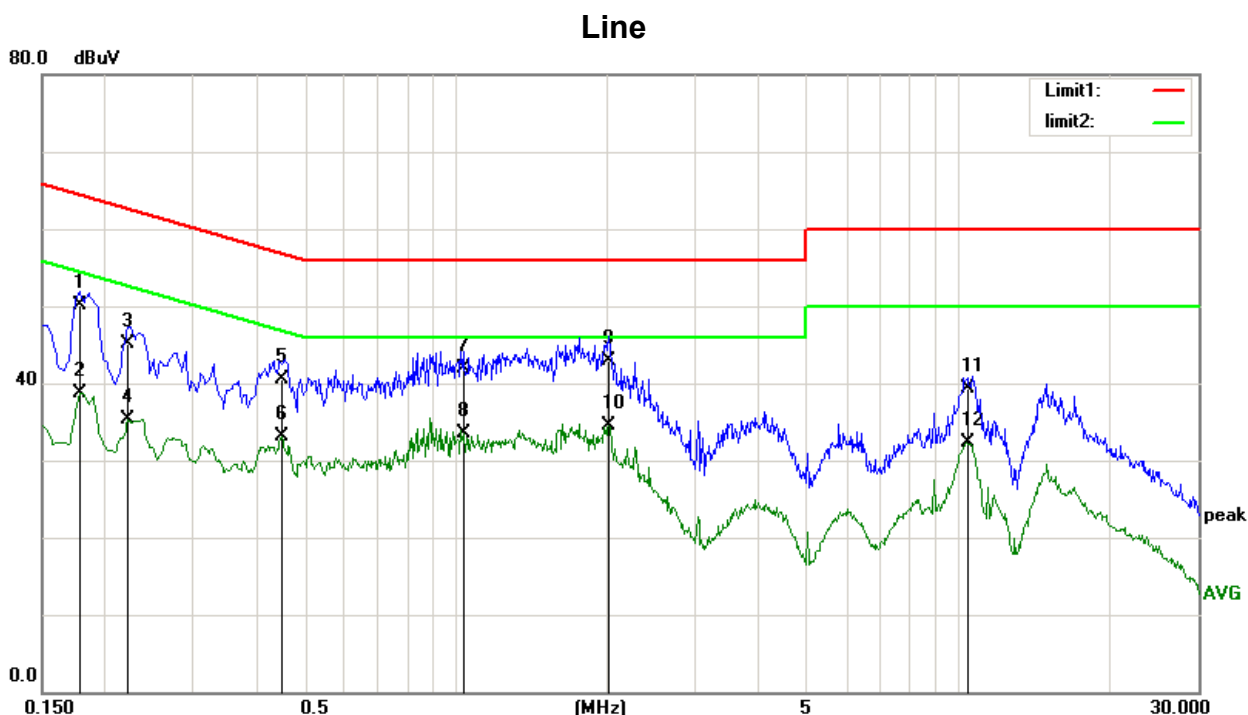


4.5 EUT OPERATION CONDITIONS

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.

4.6 TEST RESULTS

Test Mode: TX N-20 MHz Mode Channel 06



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1780	38.55	11.55	50.10	64.57	-14.47	QP
2	0.1780	27.20	11.55	38.75	55.20	-16.45	AVG
3	0.2220	34.01	11.15	45.16	62.74	-17.58	QP
4	0.2220	24.16	11.15	35.31	53.94	-18.63	AVG
5	0.4500	30.22	10.24	40.46	56.87	-16.41	QP
6	0.4500	22.83	10.24	33.07	47.43	-14.36	AVG
7	1.0380	31.75	10.09	41.84	56.00	-14.16	QP
8	1.0380	23.46	10.09	33.55	46.00	-12.45	AVG
9	2.0140	32.64	10.20	42.84	56.00	-13.16	QP
10	2.0140	24.38	10.20	34.58	46.00	-11.42	AVG
11	10.3620	28.57	10.81	39.38	60.00	-20.62	QP
12	10.3620	21.56	10.81	32.37	50.00	-17.63	AVG

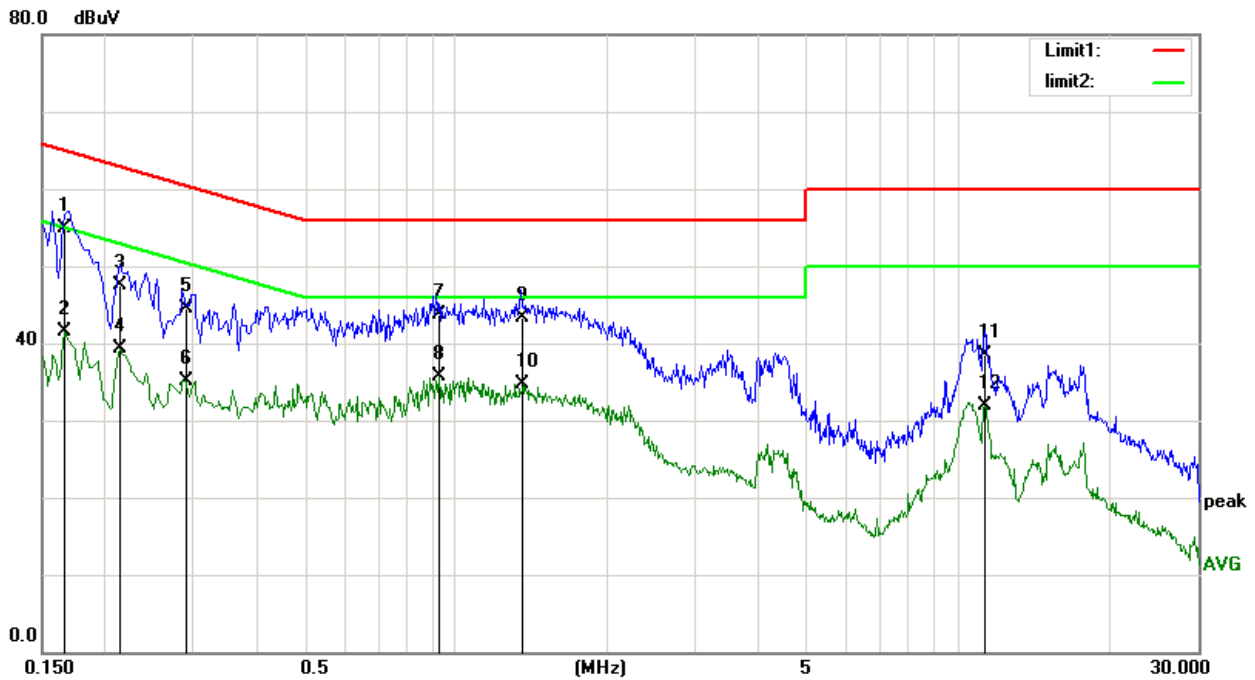
Remarks:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX N-20 MHz Mode Channel 06

Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1660	43.18	11.66	54.84	65.15	-10.31	QP
2	0.1660	29.80	11.66	41.46	55.54	-14.08	AVG
3	0.2140	36.29	11.22	47.51	63.04	-15.53	QP
4	0.2140	28.12	11.22	39.34	54.17	-14.83	AVG
5	0.2900	34.01	10.53	44.54	60.52	-15.98	QP
6	0.2900	24.53	10.53	35.06	52.00	-16.94	AVG
7	0.9260	33.59	10.10	43.69	56.00	-12.31	QP
8	0.9260	25.60	10.10	35.70	46.00	-10.30	AVG
9	1.3619	33.14	10.13	43.27	56.00	-12.73	QP
10	1.3619	24.67	10.13	34.80	46.00	-11.20	AVG
11	11.3100	27.64	10.84	38.48	60.00	-21.52	QP
12	11.3100	21.10	10.84	31.94	50.00	-18.06	AVG

Remarks:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

5 RADIATED EMISSIONSTEST

5.1LIMIT

In case the emission fall within the restricted band specified on 15.205(a) and RSS-Gen 8.10, then the 15.209(a) andRSS-Gen 8.9limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-30 MHz)

Frequency (MHz)	Magnetic field strength (H-Field) (μ A/m)	Measurement Distance (meters)
0.009-0.490	6.37/F(kHz)	300
0.490-1.705	6.37/F(kHz)	30
1.705-30.0	0.08	30

LIMITS OF RADIATED EMISSION MEASUREMENT (30 MHz-1000MHz)

Frequency (MHz)	Field Strength (μ V/m at 3m)
30-88	100
88-216	150
216-960	200
Above 960	500

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15C and RSS-247.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (μ V/m).

5.2 TEST PROCEDURE

- a. The measuring distance of 3 m 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 3 m 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 equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. The test result is calculated as the following:
 - (1) Result = Reading + Correct Factor
 - (2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
 - (3) Margin = Result - Limit

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

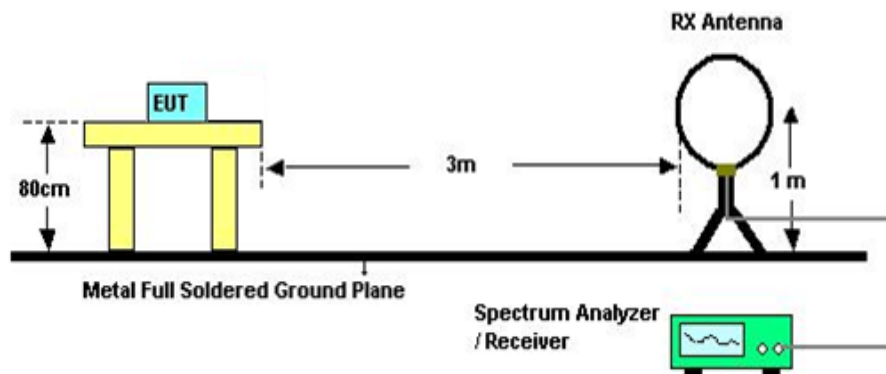
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

5.3 MEASUREMENT INSTRUMENTS LIST

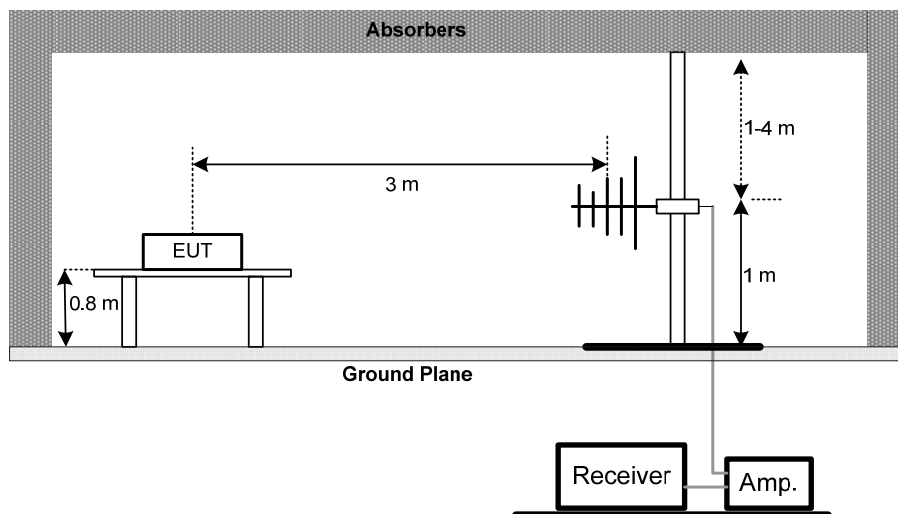
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	101307	12/12/2021
2	Spectrum Analyzer	Agilent	E4407B	US40240708	11/17/2021
3	Loop antenna	SCHWARZBECK K	FMZB1519	1519-062	12/14/2021
4	Broadband antenna	SCHWARZBECK	VULB9168	VULB9168-192	08/06/2021
5	HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D 1065	04/21/2022
6	Preamplifier Amplifier	HP	8447F	3113A05680	12/11/2021
7	PRE-AMPLIFIER	CY	EMC011830	980136	12/11/2021
8	RF Cable	R&S	Test Cable 4	4	12/11/2021
9	RF Cable	R&S	Test Cable 5	5	12/11/2021
10	RF Cable	R&S	Test Cable 9	9	04/21/2022
11	RF Cable	R&S	Test Cable 10	10	12/11/2021
12	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

5.4 TEST SETUP

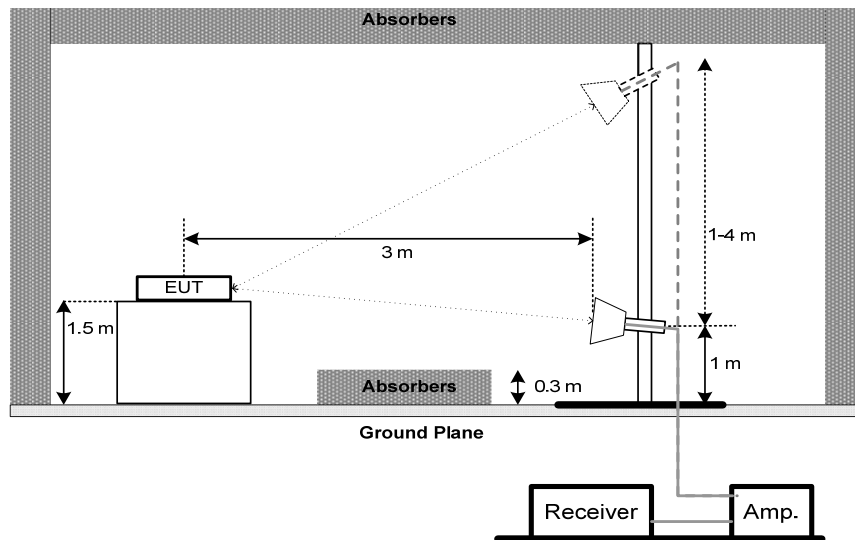
9 kHz-30 MHz



30 MHz to 1 GHz



Above 1 GHz



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS - 9kHz TO 30MHz

Test Mode:	TX N-20 MHz Mode Channel 06
------------	-----------------------------

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	P
--	--	--	--	P

Note:

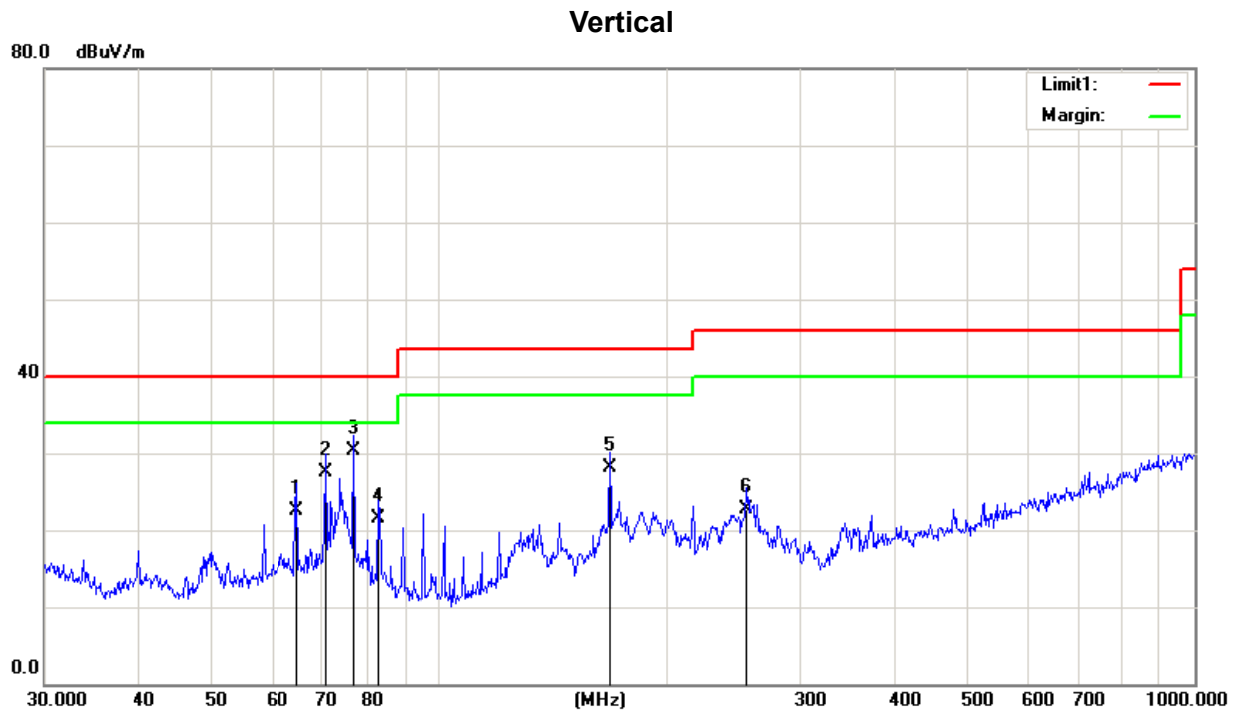
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $20 \log (\text{specific distance/test distance})(\text{dB})$;

Limit line = specific limits(dBuv) + distance extrapolation factor

5.7 TEST RESULTS - 30MHz TO 1000MHz

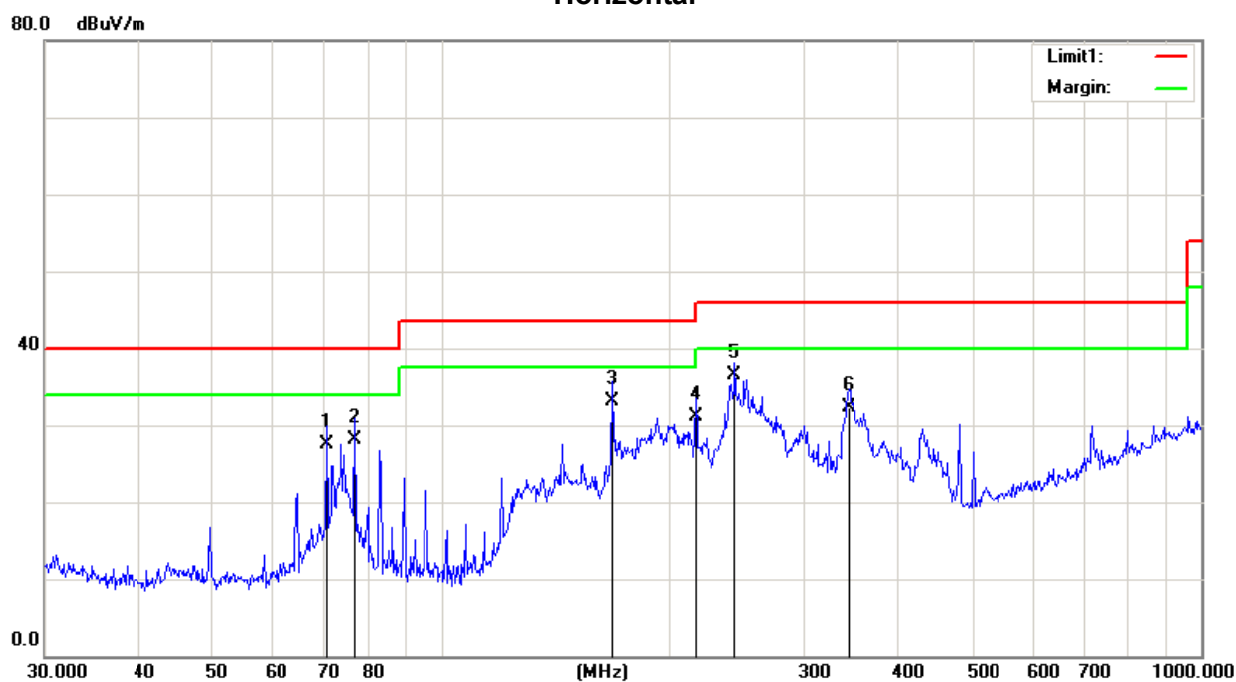
Test Mode : TX N-20 MHz Mode Channel 06



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	64.6594	34.90	-12.45	22.45	40.00	-17.55	QP
2	70.8315	42.23	-14.81	27.42	40.00	-12.58	QP
3	76.7807	45.24	-14.99	30.25	40.00	-9.75	QP
4	82.9385	36.83	-15.42	21.41	40.00	-18.59	QP
5	167.8242	38.62	-10.48	28.14	43.50	-15.36	QP
6	254.7283	30.68	-8.05	22.63	46.00	-23.37	QP

Test Mode : TX N-20 MHz Mode Channel 06

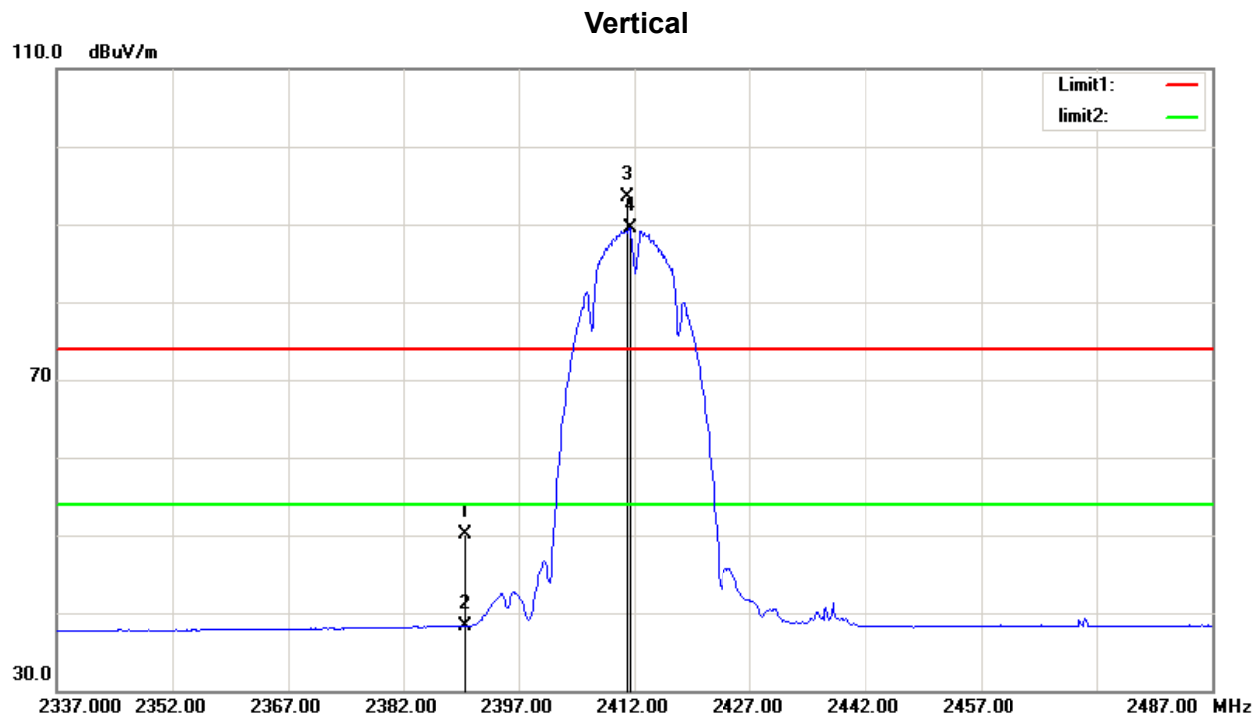
Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	70.8315	43.45	-15.98	27.47	40.00	-12.53	QP
2	76.7808	45.07	-16.99	28.08	40.00	-11.92	QP
3	167.8243	44.11	-10.91	33.20	43.50	-10.30	QP
4	216.0240	40.43	-9.38	31.05	46.00	-14.95	QP
5	243.3772	42.71	-6.15	36.56	46.00	-9.44	QP
6	343.1800	40.15	-7.90	32.25	46.00	-13.75	QP

5.8TEST RESULTS- ABOVE 1000MHz(BAND EDGE)

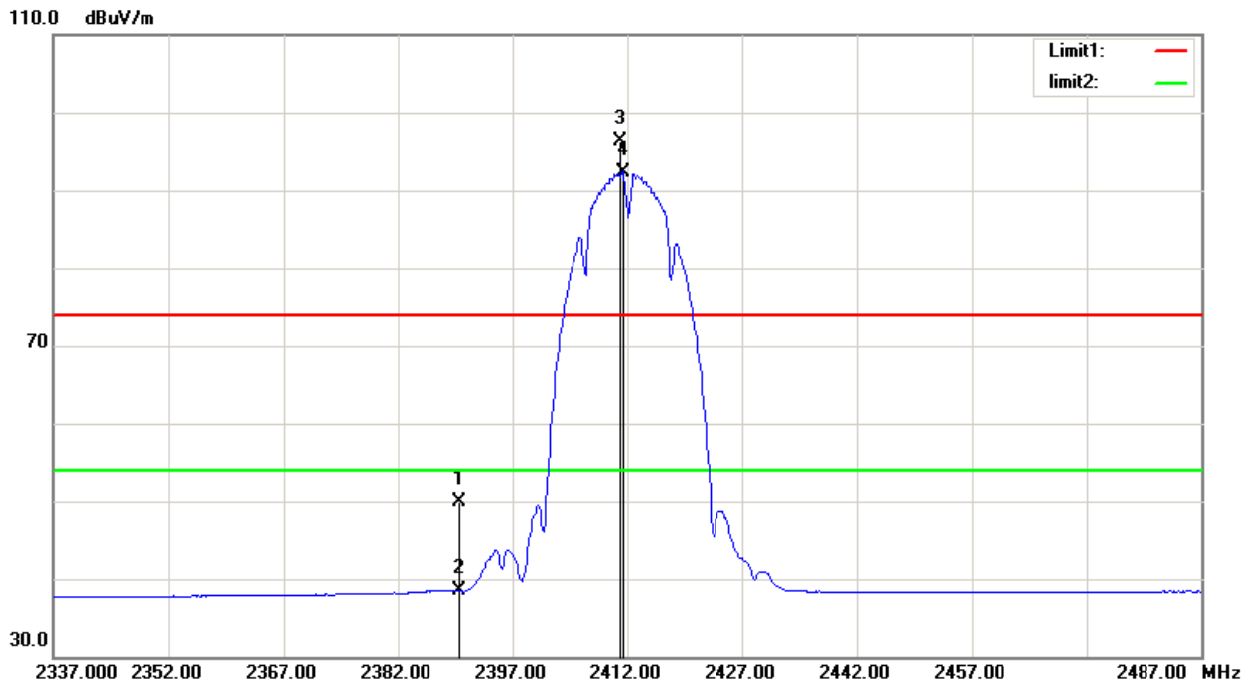
Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	21.87	28.19	50.06	74.00	-23.94	peak
2	2390.000	10.13	28.19	38.32	54.00	-15.68	AVG
3	2411.100	65.35	28.25	93.60	/	/	peak
4	2411.400	61.16	28.25	89.41	/	/	AVG

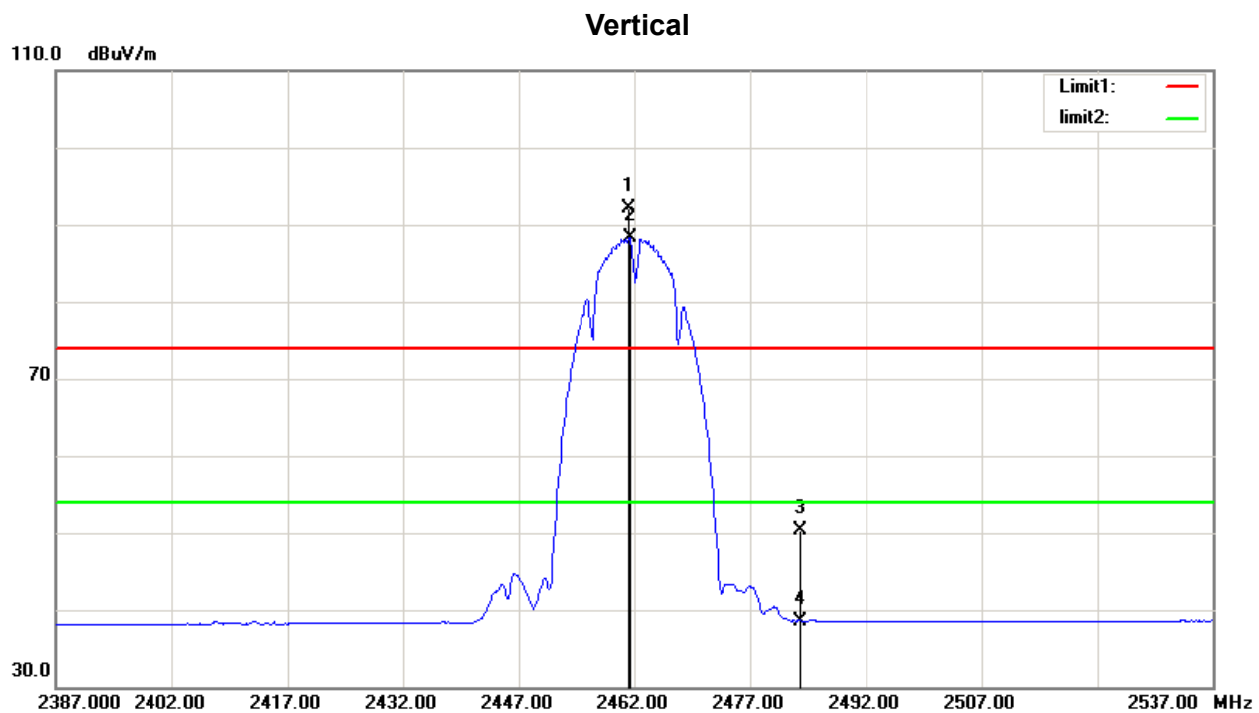
Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz

Horizontal



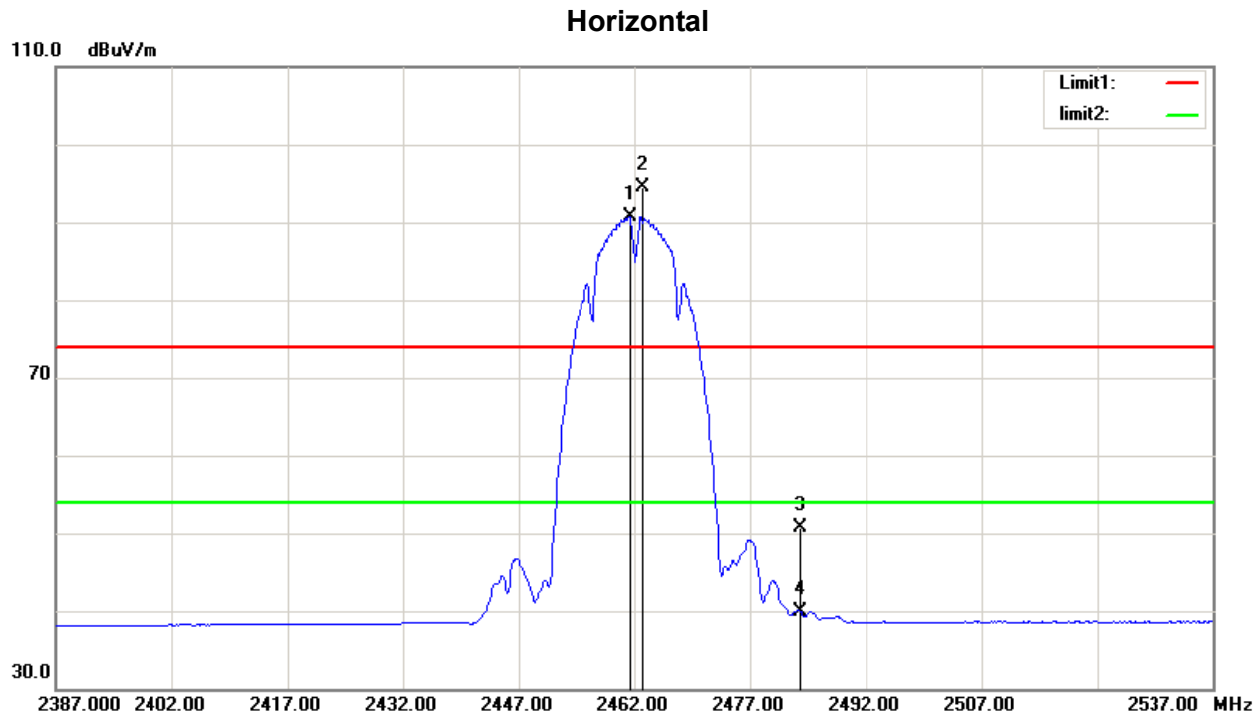
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	21.79	28.19	49.98	74.00	-24.02	peak
2	2390.000	10.26	28.19	38.45	54.00	-15.55	AVG
3	2411.150	68.01	28.25	96.26	/	/	peak
4	2411.400	64.15	28.25	92.40	/	/	AVG

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz



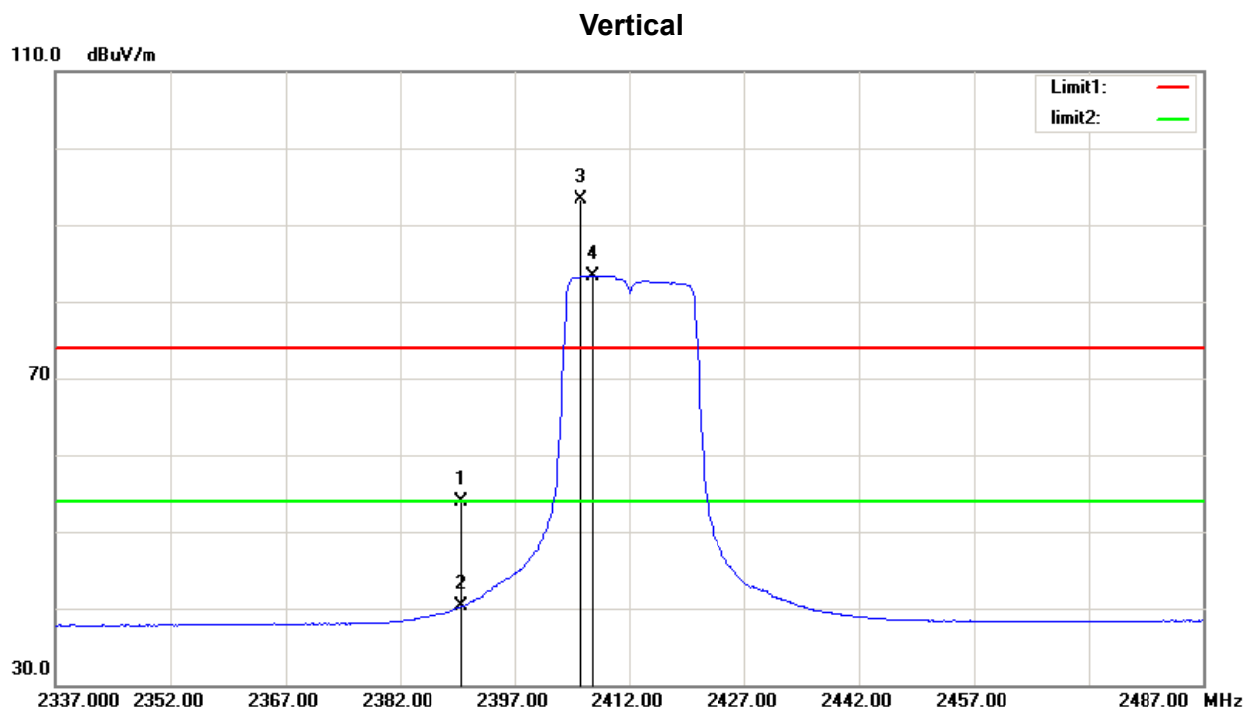
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.250	63.76	28.38	92.14	/	/	peak
2	2461.400	59.98	28.38	88.36	/	/	AVG
3	2483.500	21.84	28.43	50.27	74.00	-23.73	peak
4	2483.500	10.16	28.43	38.59	54.00	-15.41	AVG

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz



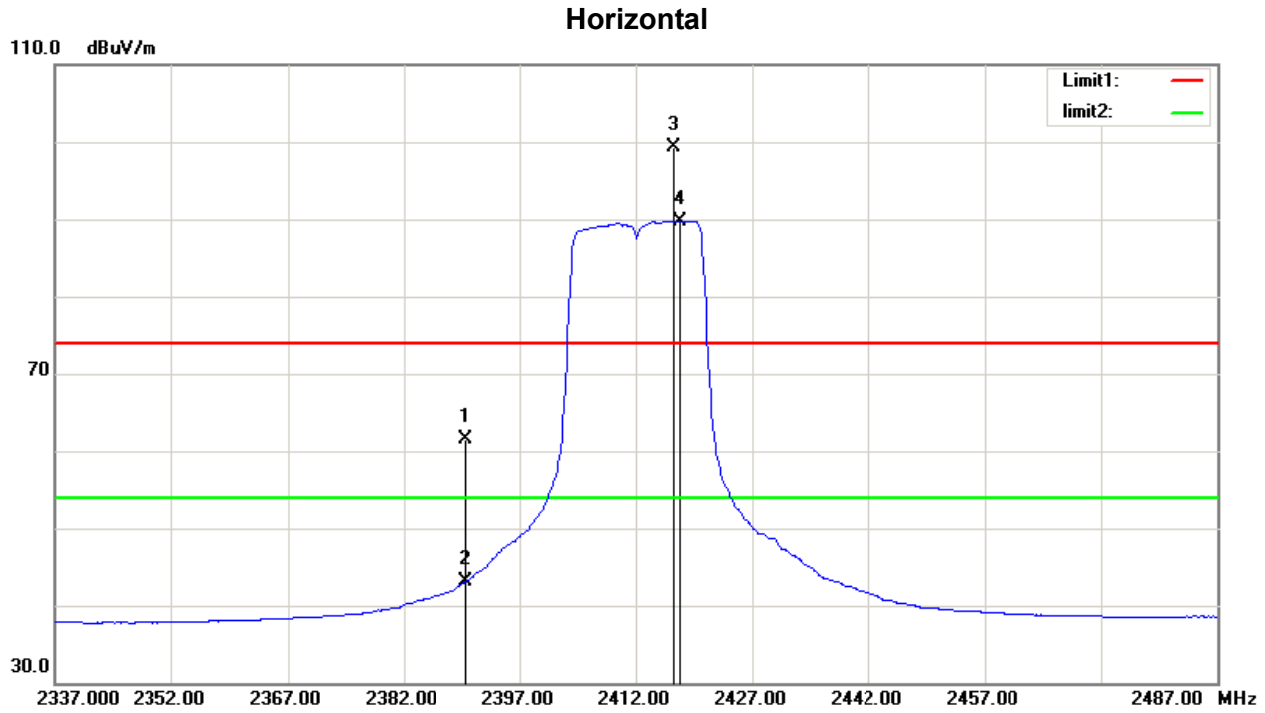
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.400	62.35	28.38	90.73	/	/	AVG
2	2463.200	66.14	28.39	94.53	/	/	peak
3	2483.500	22.32	28.43	50.75	74.00	-23.25	peak
4	2483.500	11.41	28.43	39.84	54.00	-14.16	AVG

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz



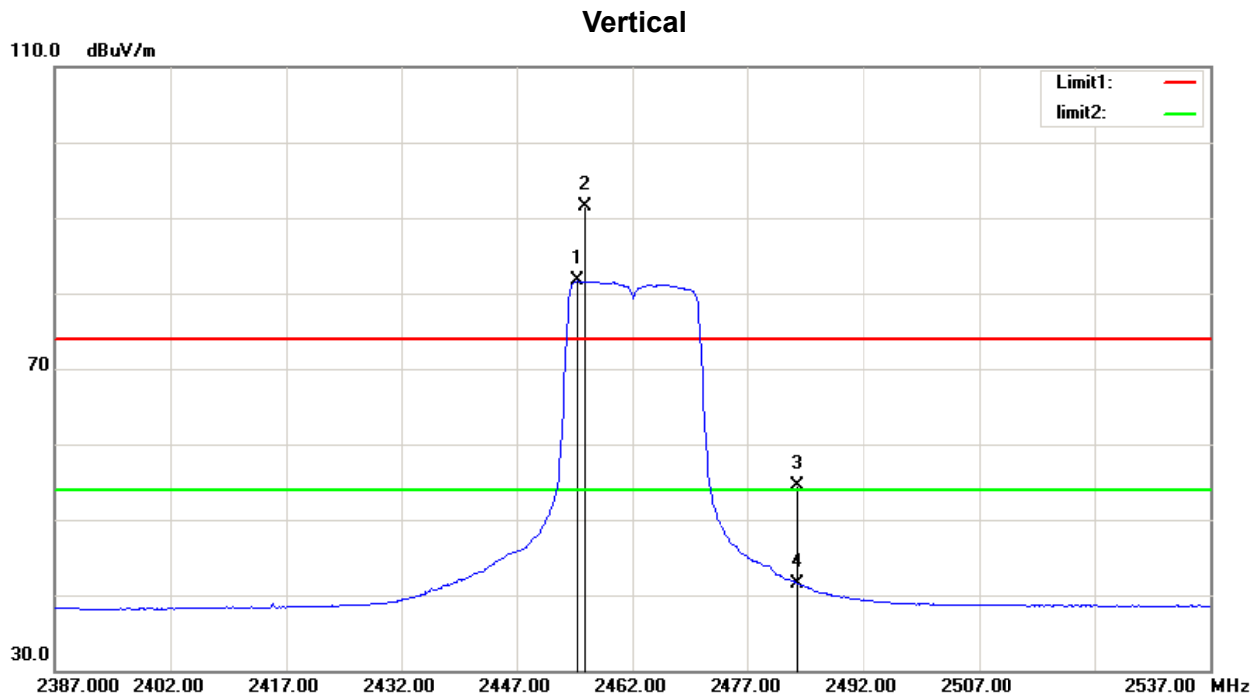
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	25.71	28.19	53.90	74.00	-20.10	peak
2	2390.000	12.03	28.19	40.22	54.00	-13.78	AVG
3	2405.700	65.05	28.24	93.29	/	/	peak
4	2407.350	55.14	28.24	83.38	/	/	AVG

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	33.29	28.19	61.48	74.00	-12.52	peak
2	2390.000	14.93	28.19	43.12	54.00	-10.88	AVG
3	2416.800	71.04	28.26	99.30	/	/	peak
4	2417.700	61.53	28.26	89.79	/	/	AVG

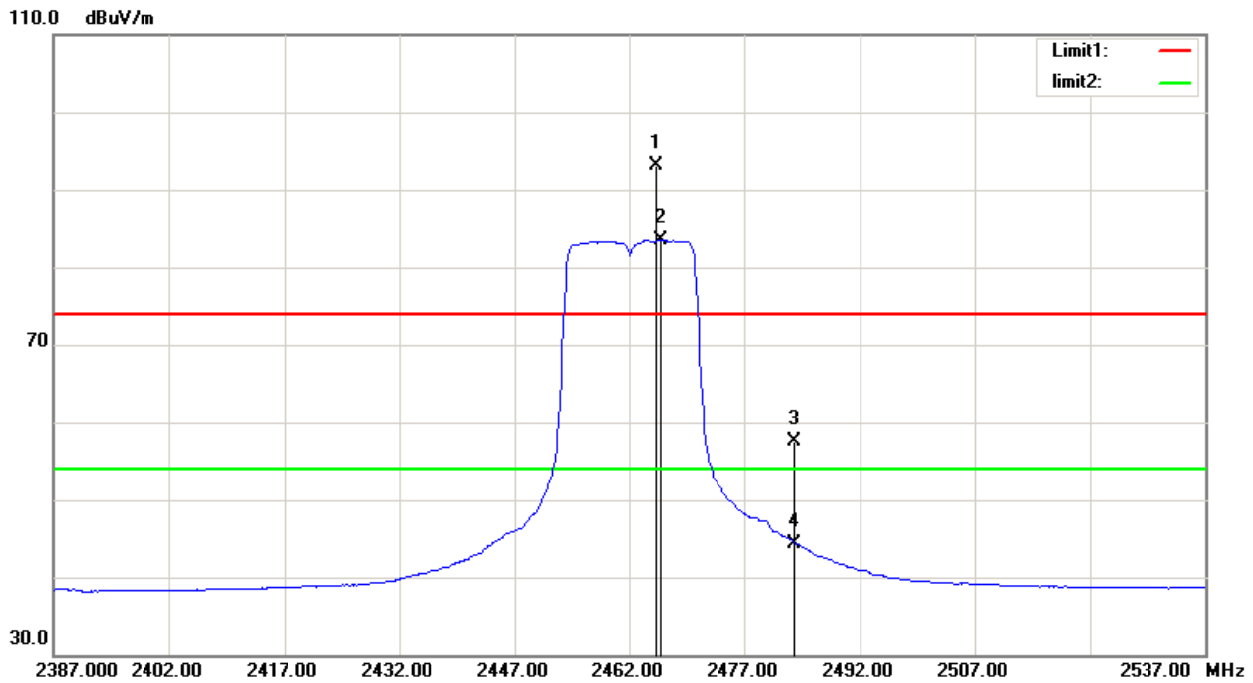
Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2454.800	53.25	28.36	81.61	/	/	AVG
2	2455.850	63.06	28.37	91.43	/	/	peak
3	2483.500	26.03	28.43	54.46	74.00	-19.54	peak
4	2483.500	13.03	28.43	41.46	54.00	-12.54	AVG

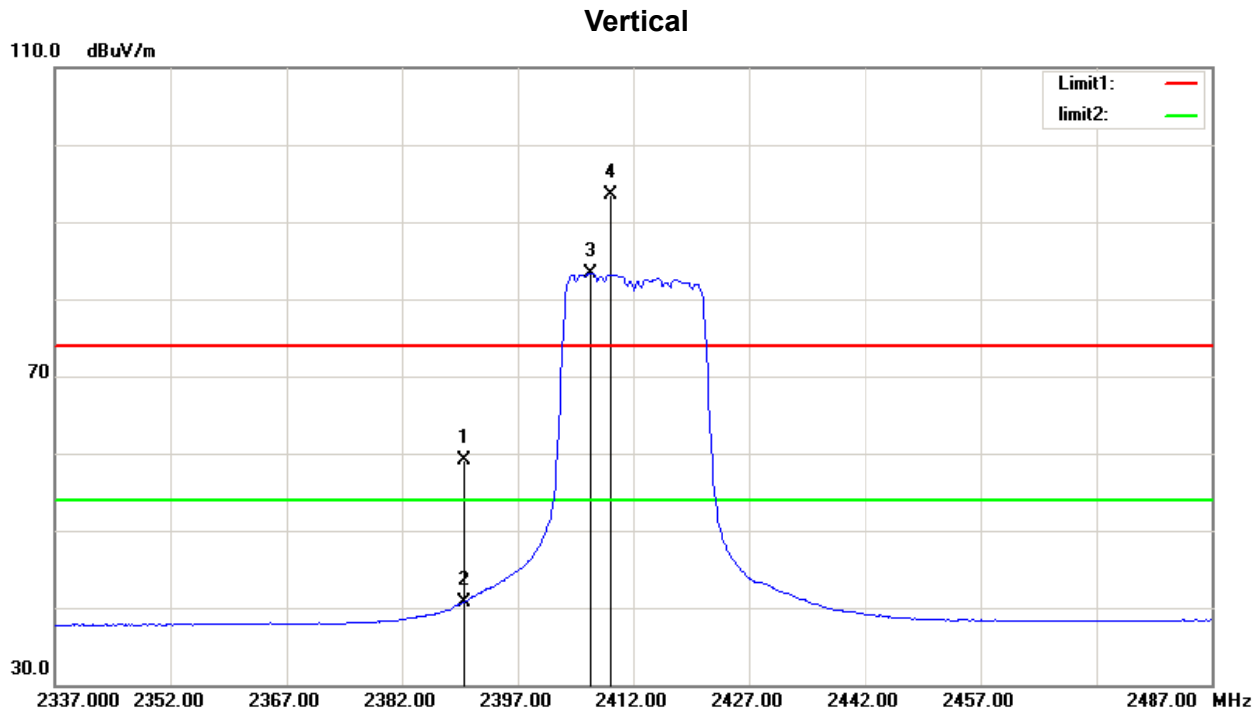
Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2465.450	64.67	28.39	93.06	/	/	peak
2	2466.200	55.09	28.40	83.49	/	/	AVG
3	2483.500	29.16	28.43	57.59	74.00	-16.41	peak
4	2483.500	15.97	28.43	44.40	54.00	-9.60	AVG

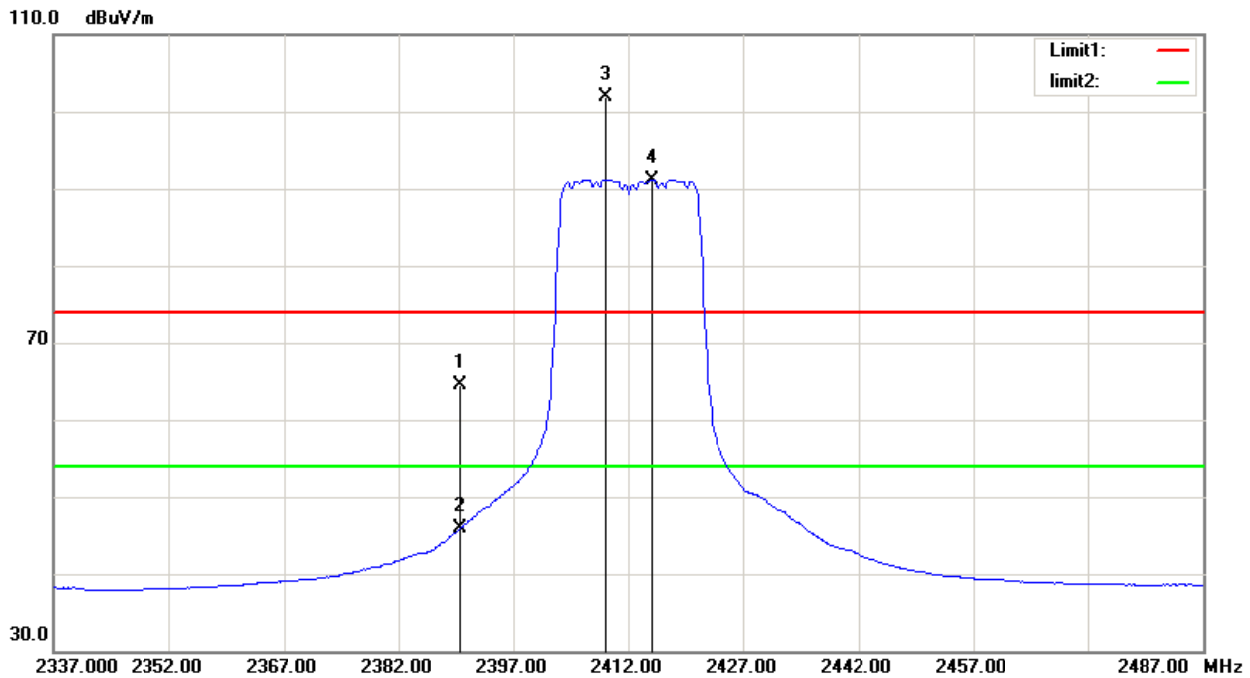
Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2412 MHz



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	30.82	28.19	59.01	74.00	-14.99	peak
2	2390.000	12.58	28.19	40.77	54.00	-13.23	AVG
3	2406.450	55.05	28.24	83.29	/	/	AVG
4	2409.150	65.34	28.25	93.59	/	/	peak

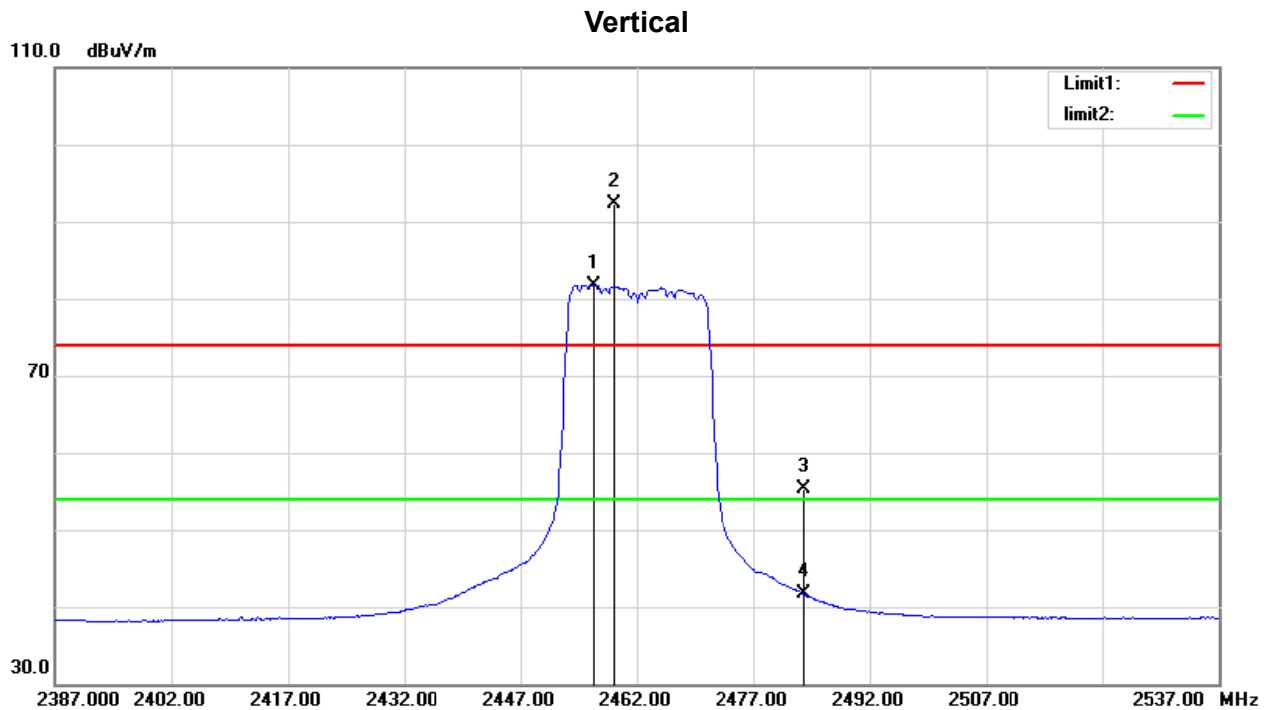
Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2412 MHz

Horizontal



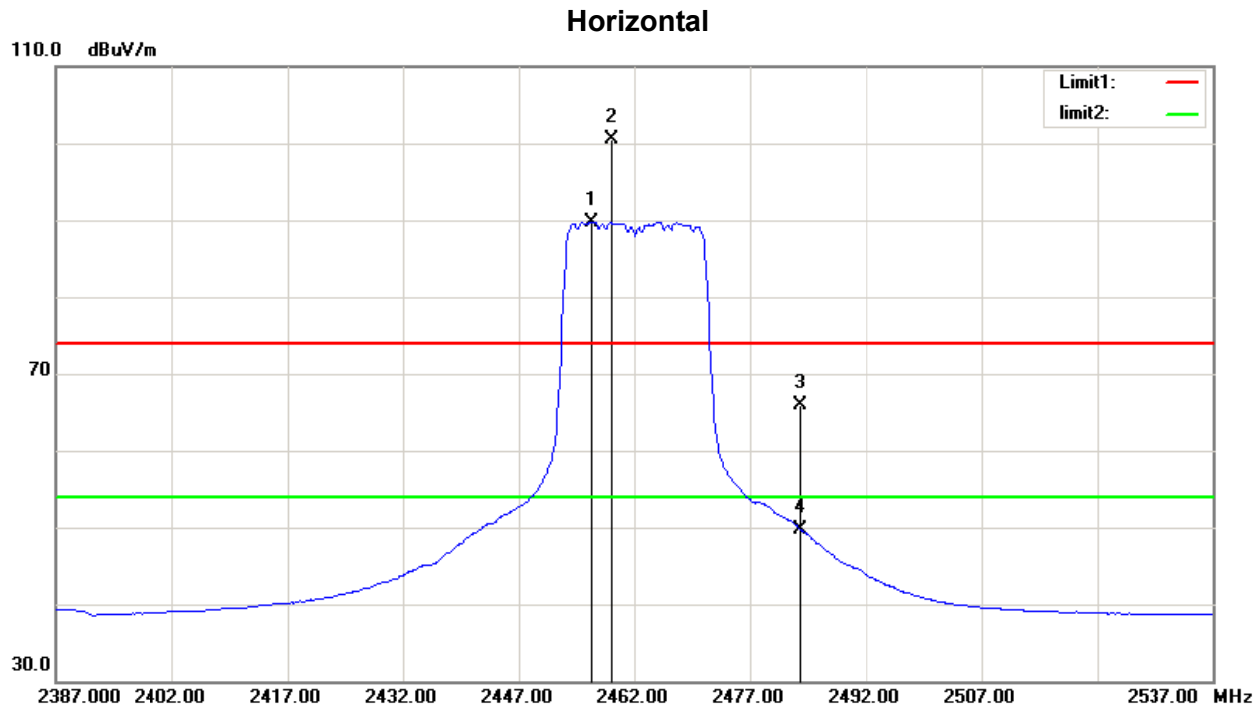
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	36.29	28.19	64.48	74.00	-9.52	peak
2	2390.000	17.73	28.19	45.92	54.00	-8.08	AVG
3	2409.150	73.64	28.25	101.89	/	/	peak
4	2415.150	62.93	28.26	91.19	/	/	AVG

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2462 MHz



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2456.450	53.43	28.37	81.80	/	/	AVG
2	2459.150	63.96	28.38	92.34	/	/	peak
3	2483.500	26.86	28.43	55.29	74.00	-18.71	peak
4	2483.500	13.17	28.43	41.60	54.00	-12.40	AVG

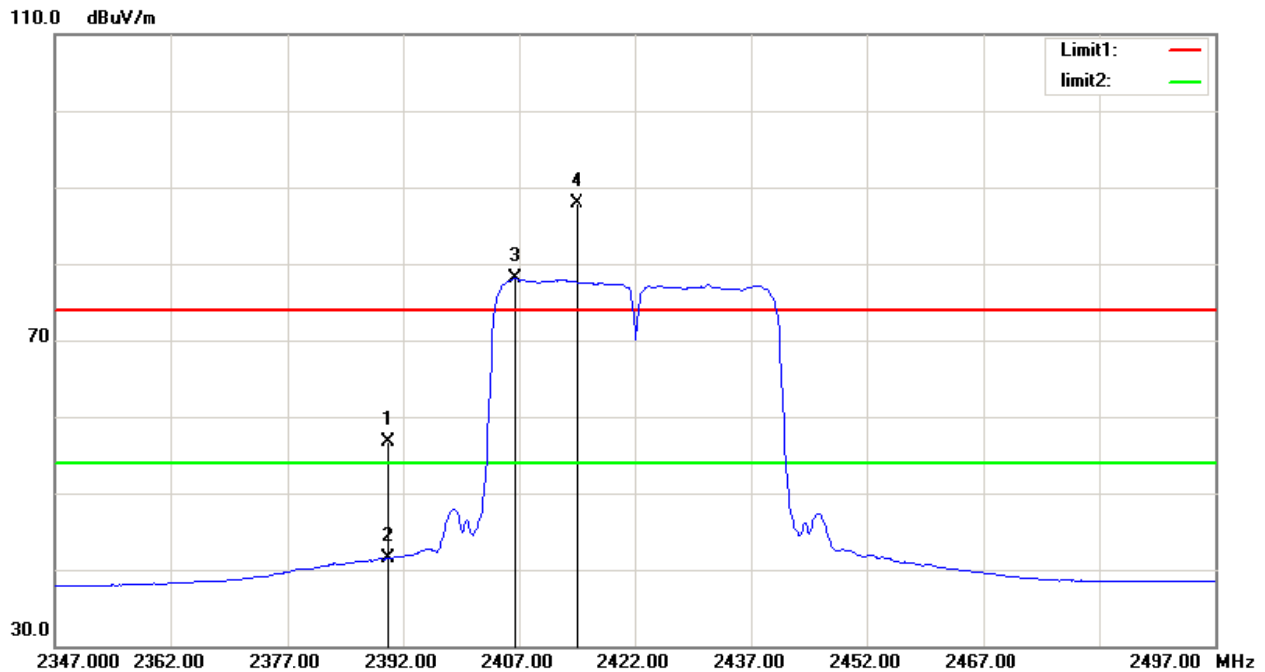
Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2462 MHz



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2456.450	61.39	28.37	89.76	/	/	AVG
2	2459.150	72.03	28.38	100.41	/	/	peak
3	2483.500	37.40	28.43	65.83	74.00	-8.17	peak
4	2483.500	21.18	28.43	49.61	54.00	-4.39	AVG

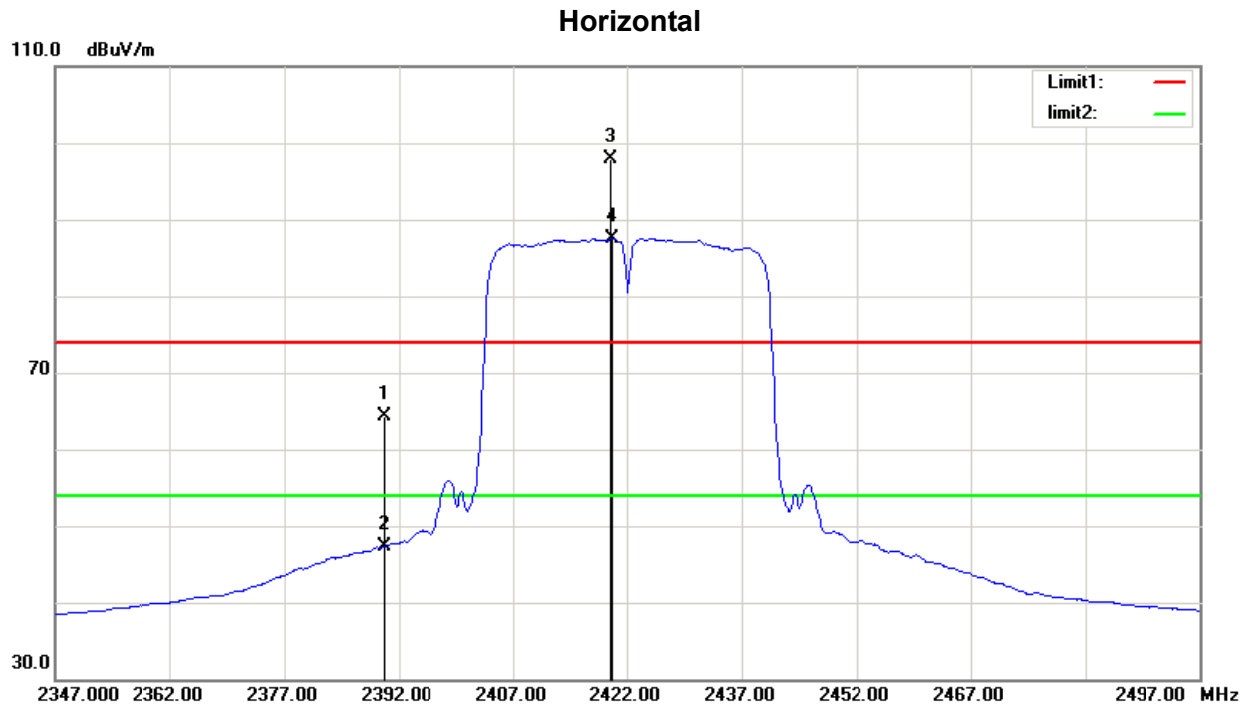
Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2422MHz

Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.49	28.19	56.68	74.00	-17.32	peak
2	2390.000	13.31	28.19	41.50	54.00	-12.50	AVG
3	2406.400	49.85	28.24	78.09	/	/	AVG
4	2414.500	59.65	28.26	87.91	/	/	peak

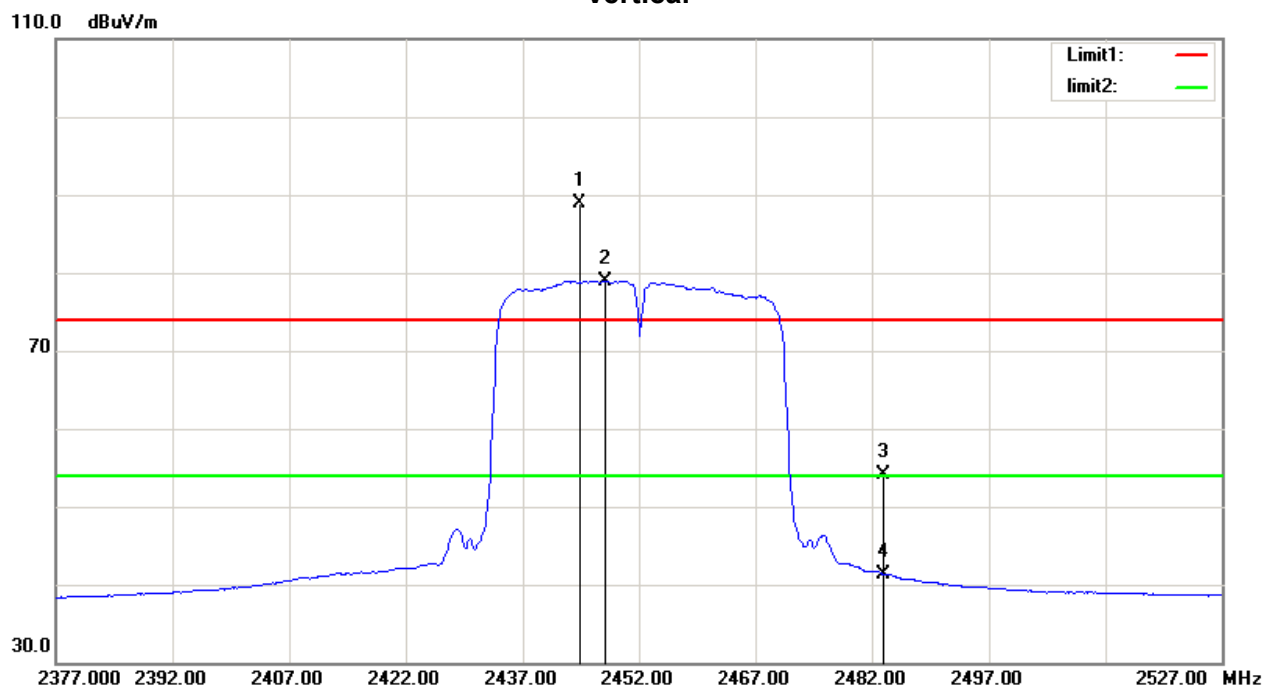
Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2422MHz



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	36.09	28.19	64.28	74.00	-9.72	peak
2	2390.000	19.09	28.19	47.28	54.00	-6.72	AVG
3	2419.900	69.54	28.27	97.81	/	/	peak
4	2420.200	59.26	28.27	87.53	/	/	AVG

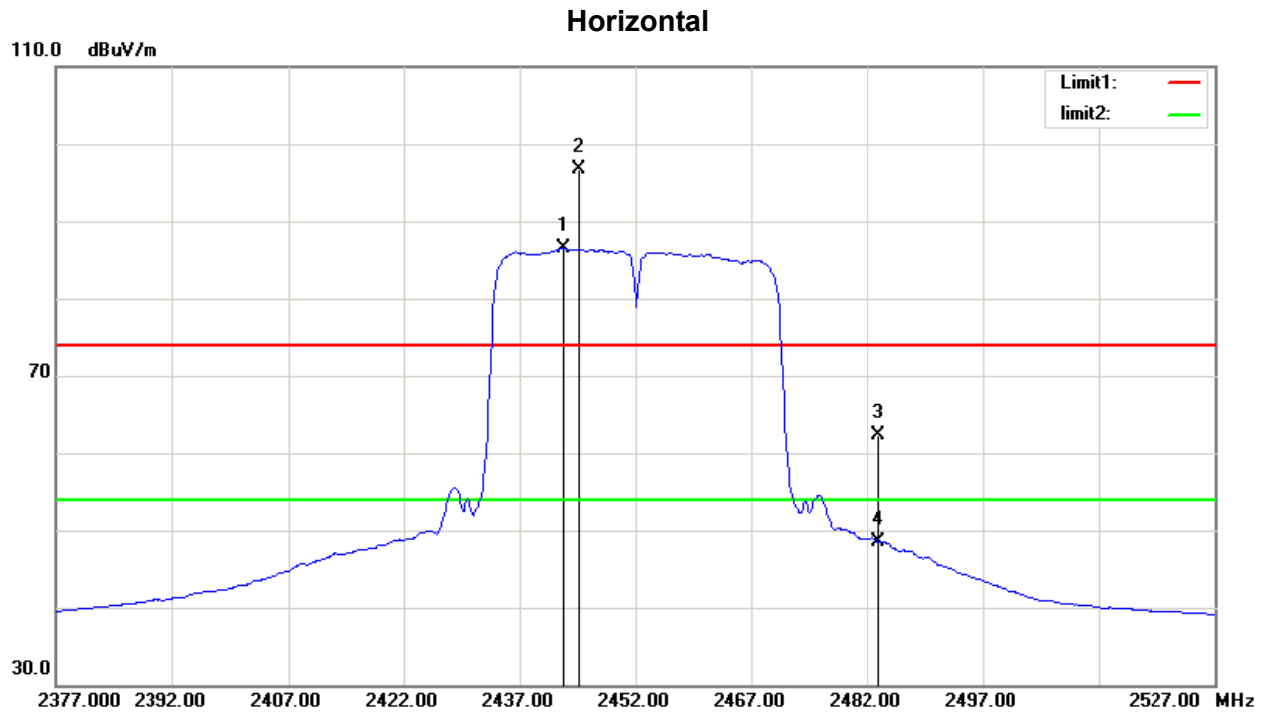
Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2452 MHz

Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2444.350	60.62	28.33	88.95	/	/	peak
2	2447.650	50.66	28.34	79.00	/	/	AVG
3	2483.500	25.64	28.43	54.07	74.00	-19.93	peak
4	2483.500	12.94	28.43	41.37	54.00	-12.63	AVG

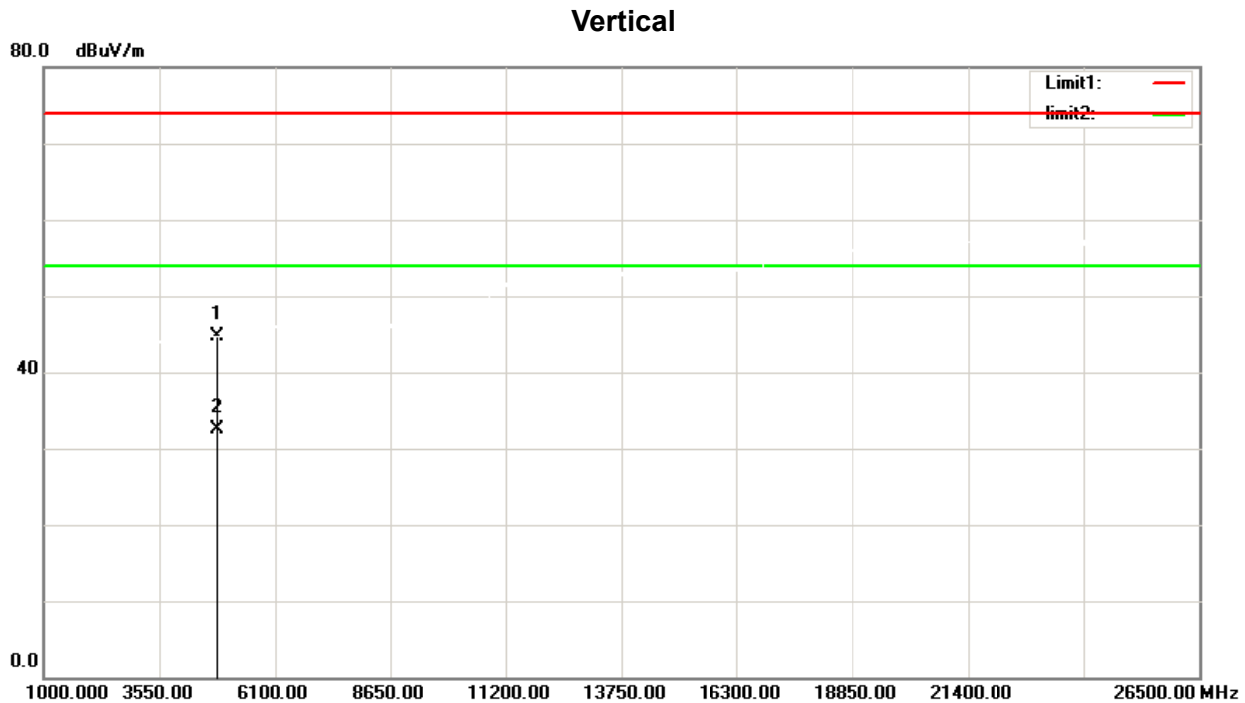
Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2452 MHz



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2442.700	58.16	28.33	86.49	/	/	AVG
2	2444.650	68.29	28.34	96.63	/	/	peak
3	2483.500	33.79	28.43	62.22	74.00	-11.78	peak
4	2483.500	20.11	28.43	48.54	54.00	-5.46	AVG

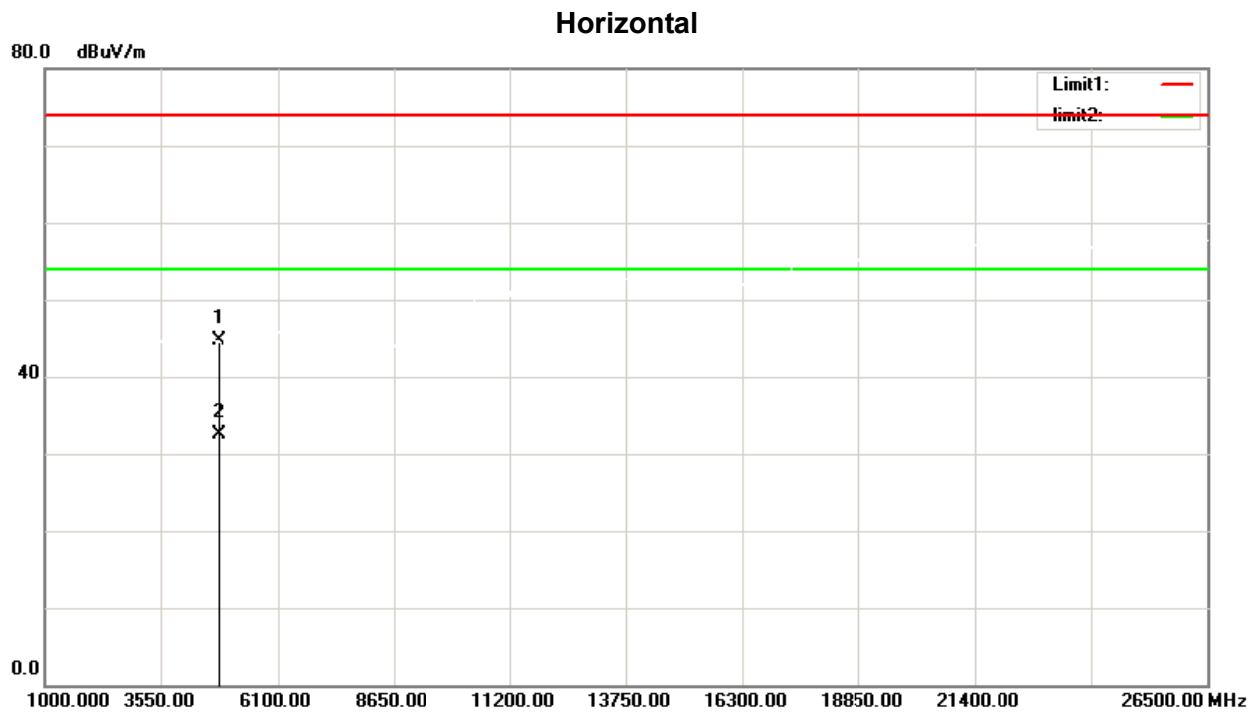
5.9 TEST RESULTS- ABOVE 1000MHz(HARMONIC)

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz



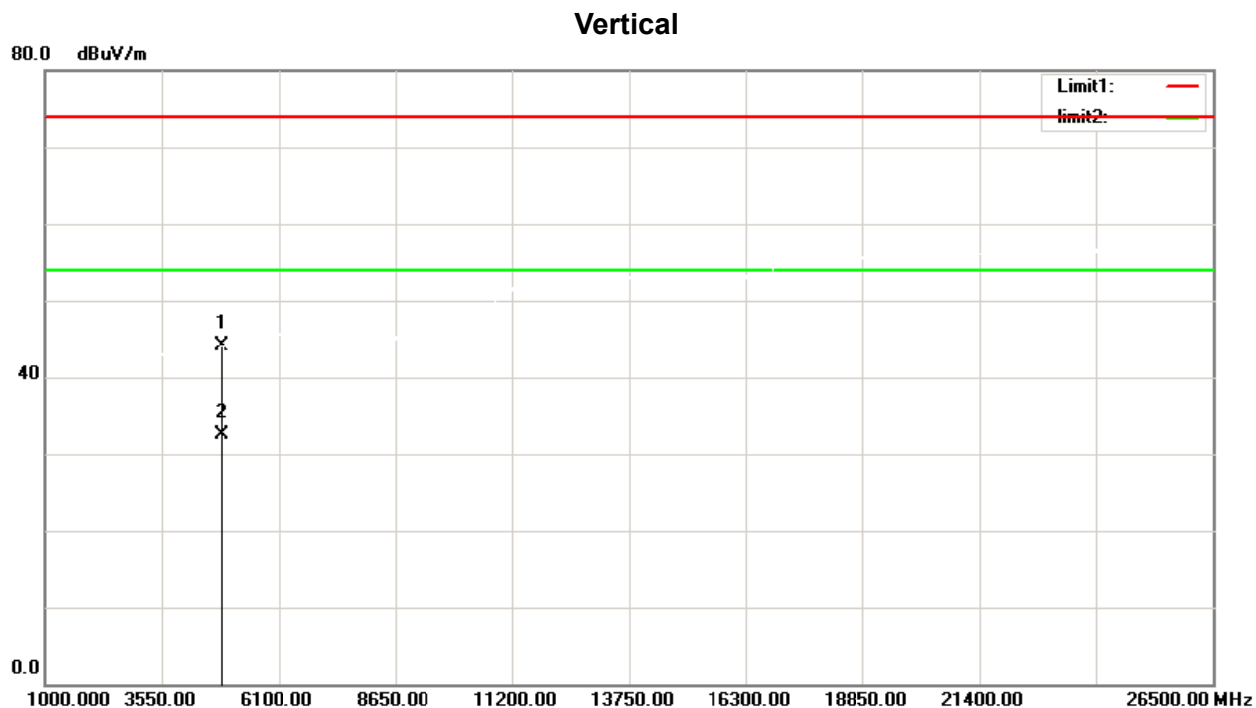
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	53.81	-9.20	44.61	74.00	-29.39	peak
2	4824.000	41.72	-9.20	32.52	54.00	-21.48	AVG

Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz



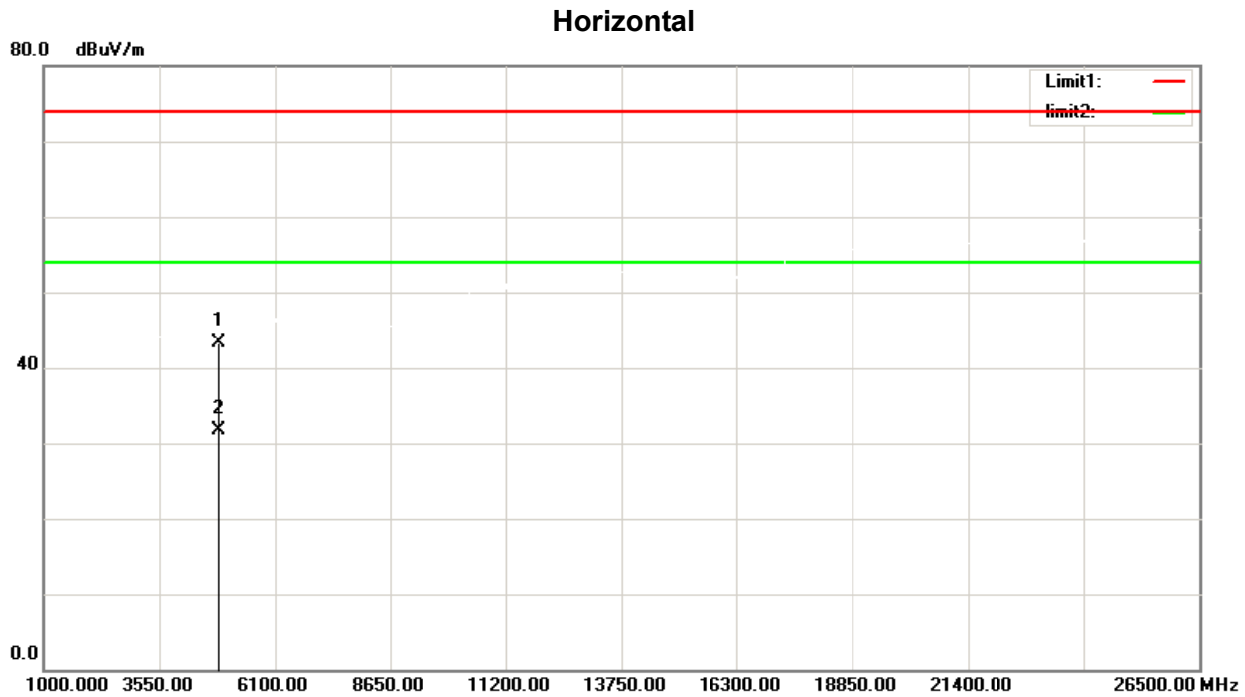
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	53.83	-9.20	44.63	74.00	-29.37	peak
2	4824.000	41.77	-9.20	32.57	54.00	-21.43	AVG

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz



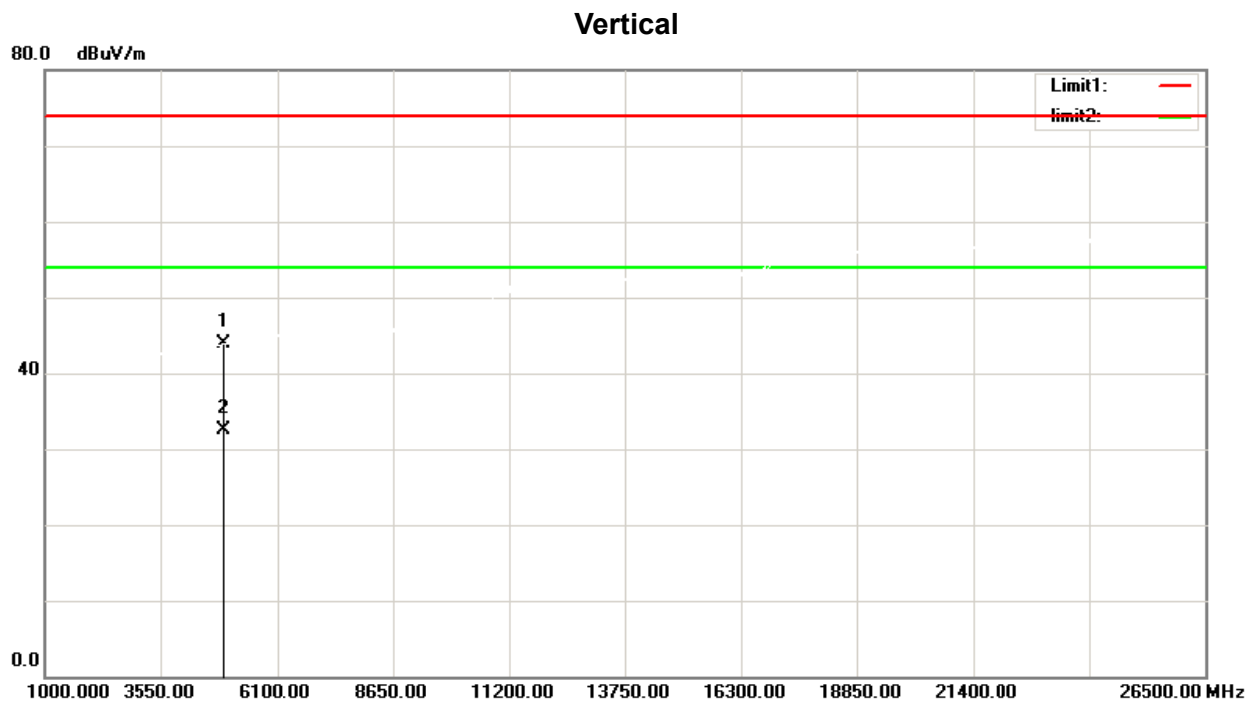
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	53.23	-9.05	44.18	74.00	-29.82	peak
2	4874.000	41.56	-9.05	32.51	54.00	-21.49	AVG

Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz



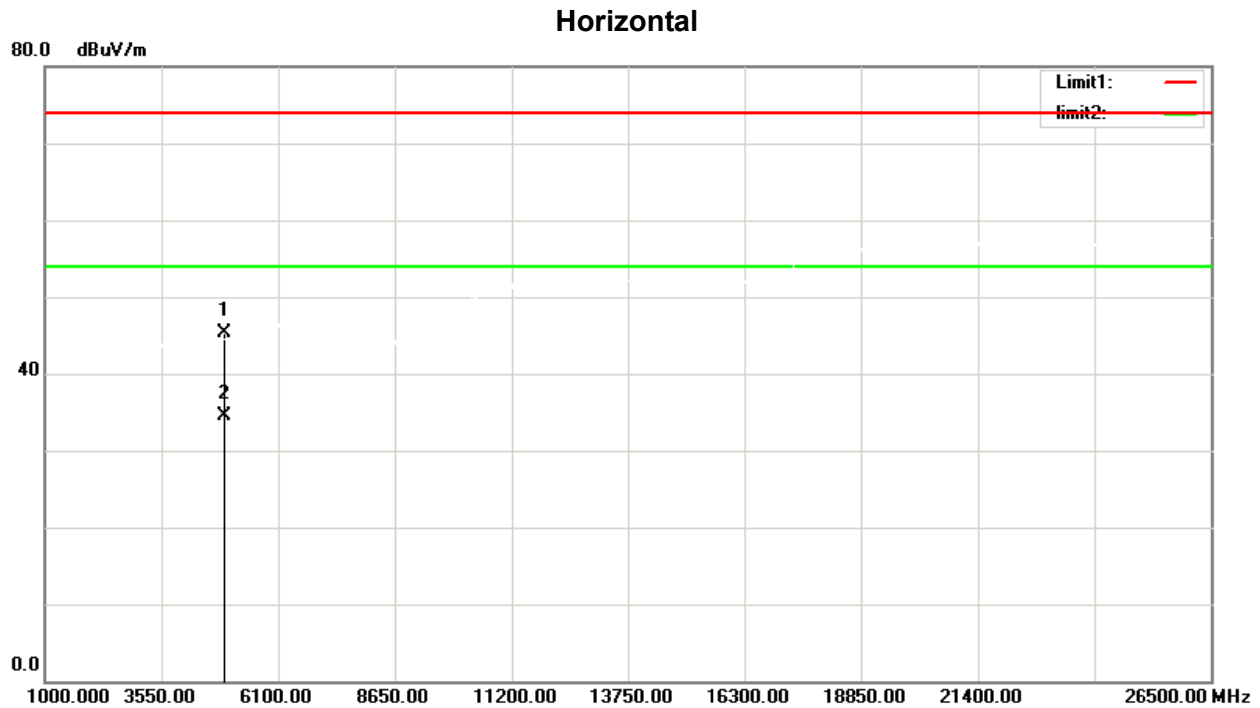
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	52.44	-9.05	43.39	74.00	-30.61	peak
2	4874.000	40.76	-9.05	31.71	54.00	-22.29	AVG

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz



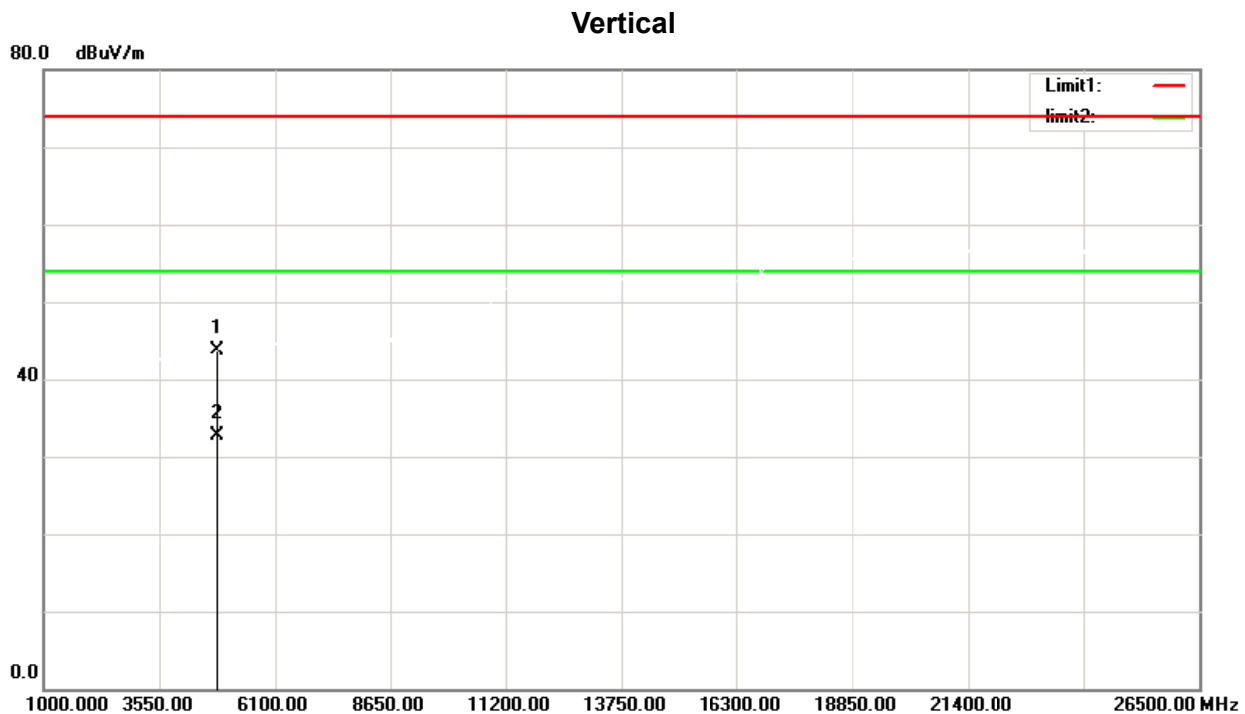
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	52.71	-8.90	43.81	74.00	-30.19	peak
2	4924.000	41.47	-8.90	32.57	54.00	-21.43	AVG

Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz



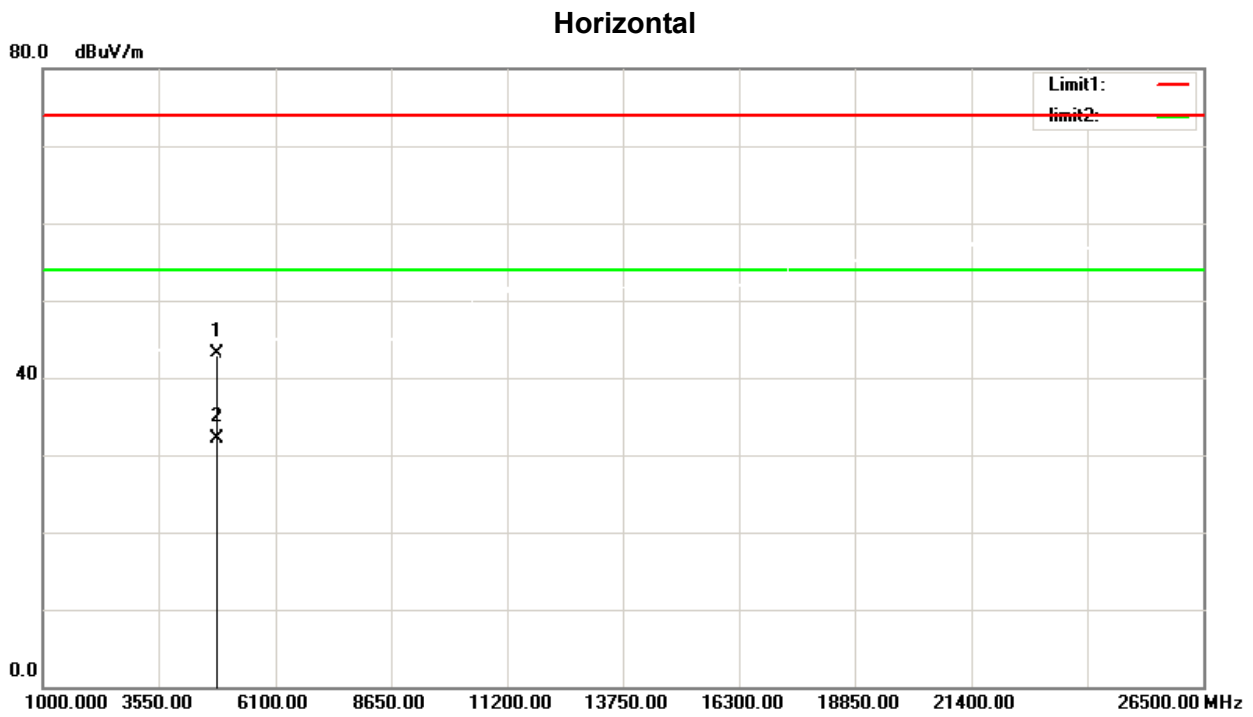
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	54.12	-8.90	45.22	74.00	-28.78	peak
2	4924.000	43.41	-8.90	34.51	54.00	-19.49	AVG

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz



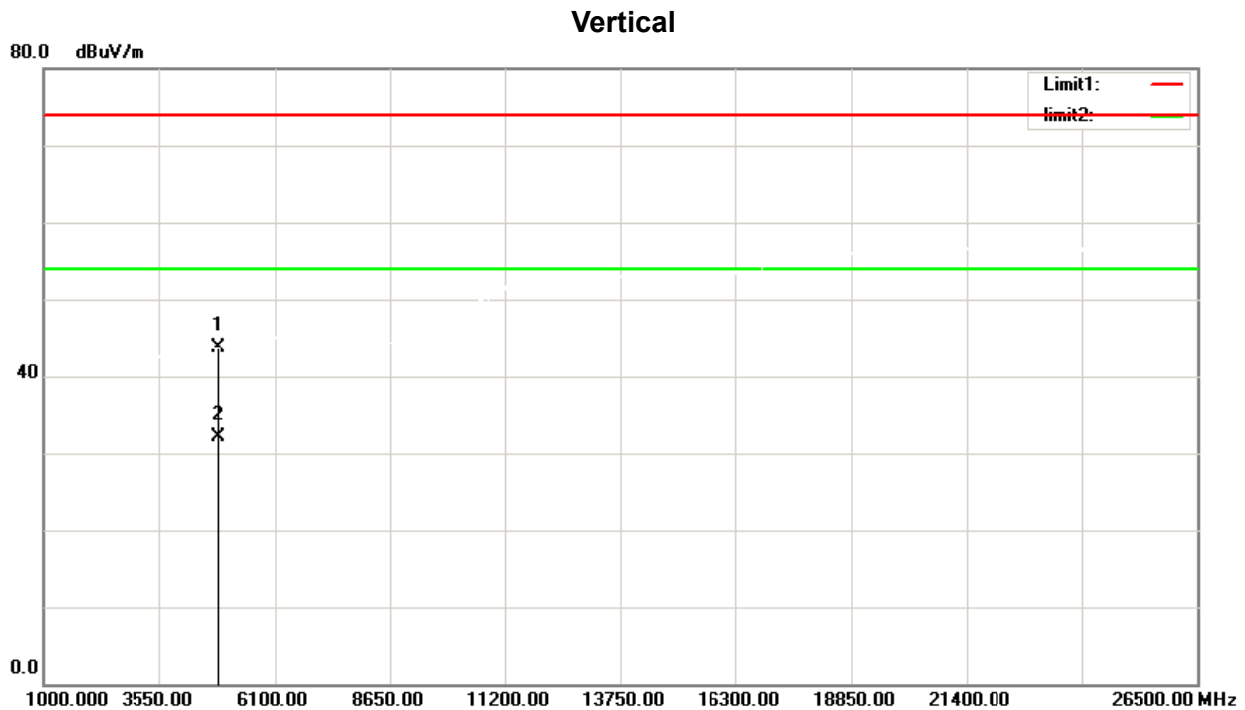
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	52.81	-9.20	43.61	74.00	-30.39	peak
2	4824.000	41.82	-9.20	32.62	54.00	-21.38	AVG

Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz



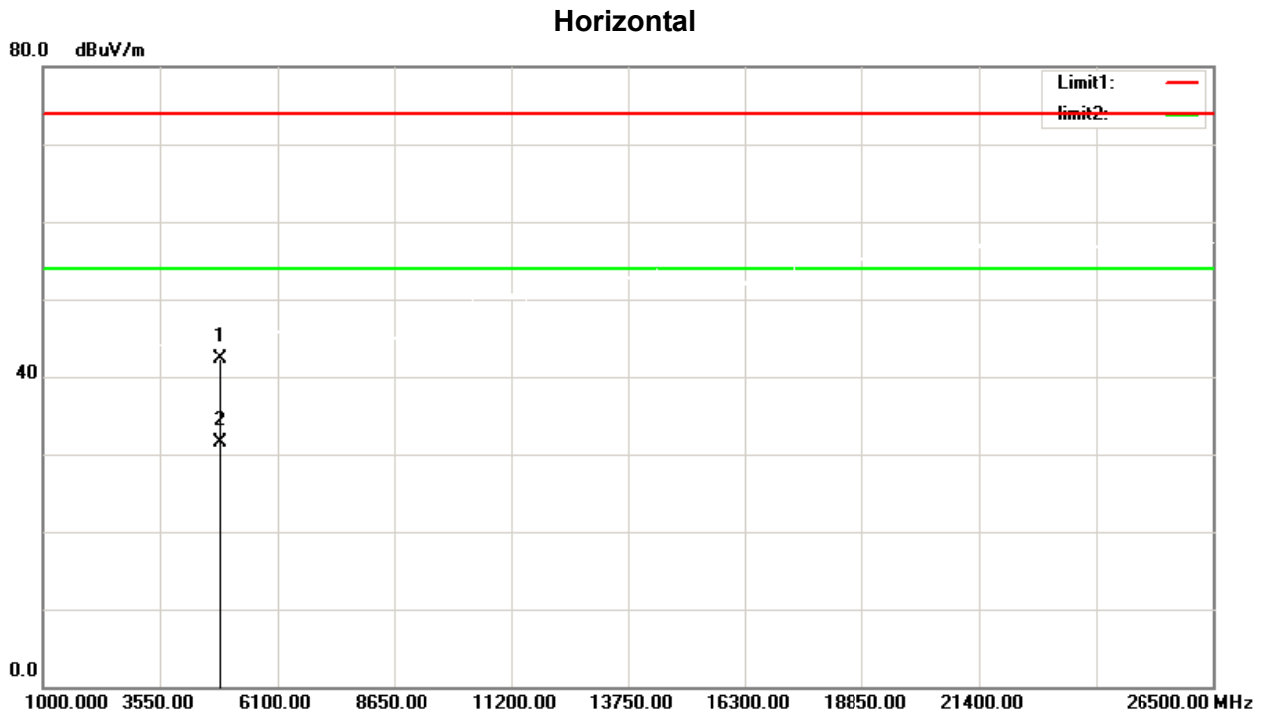
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	52.33	-9.20	43.13	74.00	-30.87	peak
2	4824.000	41.35	-9.20	32.15	54.00	-21.85	AVG

Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz



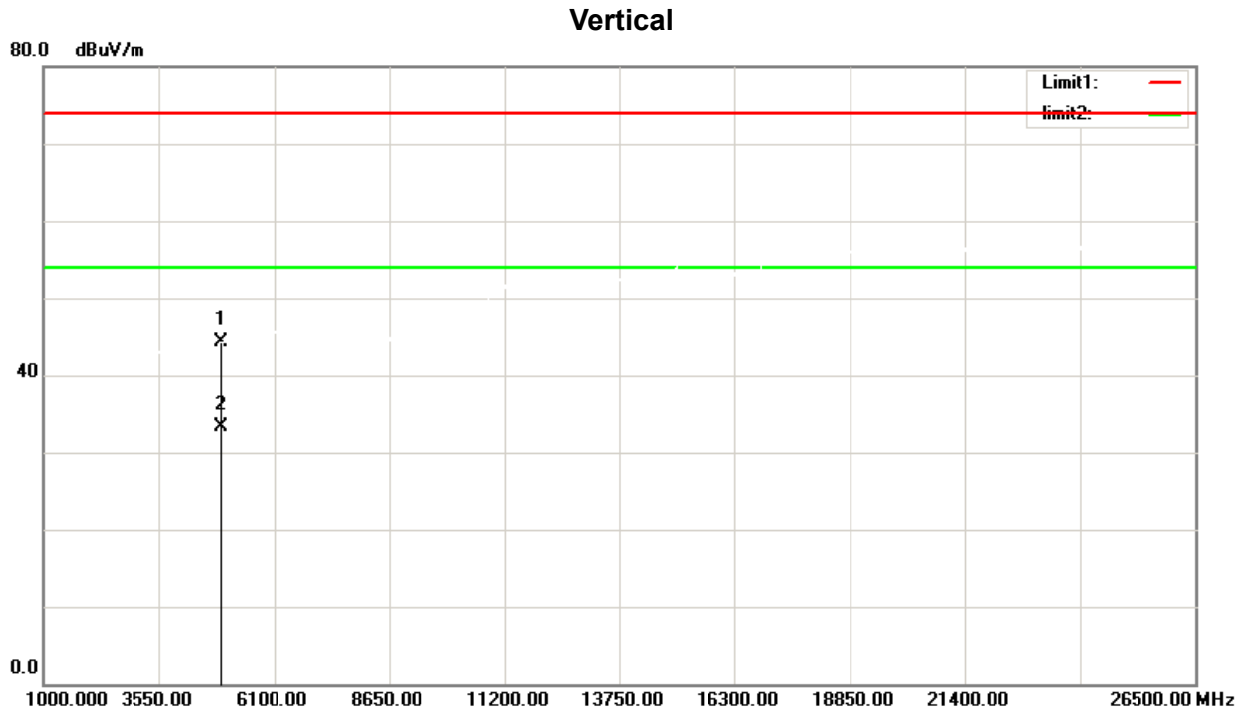
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	52.73	-9.05	43.68	74.00	-30.32	peak
2	4874.000	41.20	-9.05	32.15	54.00	-21.85	AVG

Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz



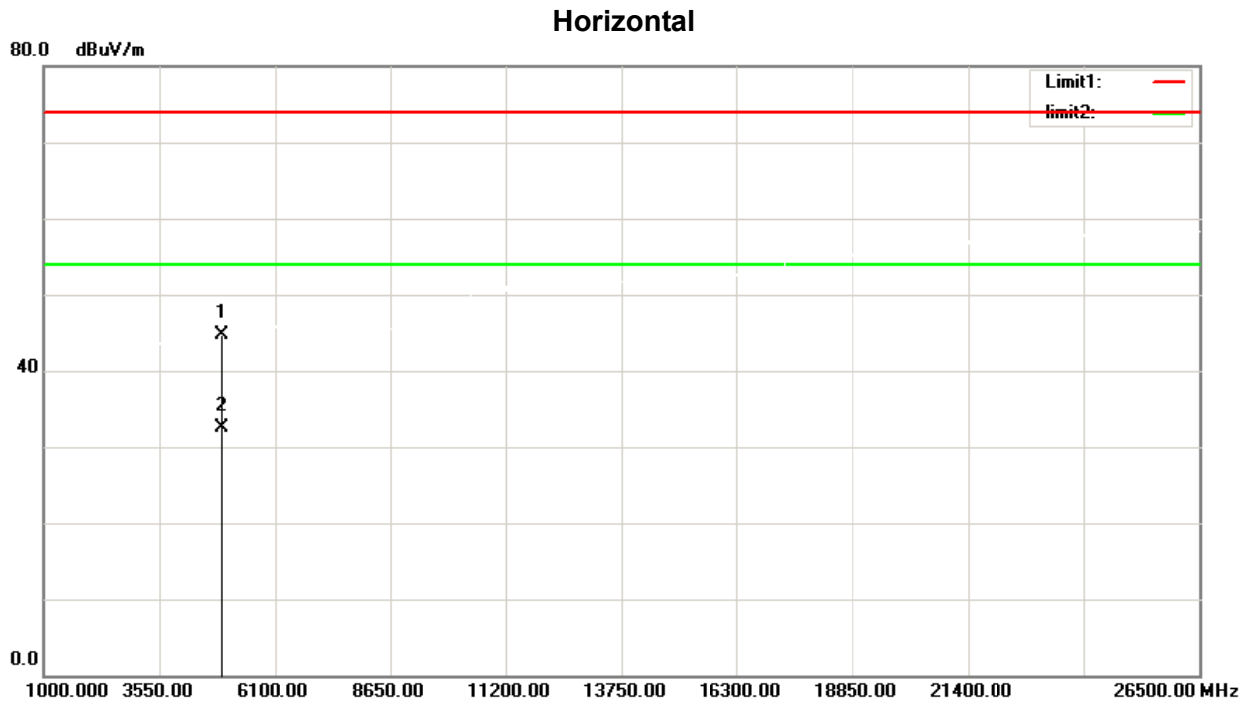
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	51.44	-9.05	42.39	74.00	-31.61	peak
2	4874.000	40.47	-9.05	31.42	54.00	-22.58	AVG

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz



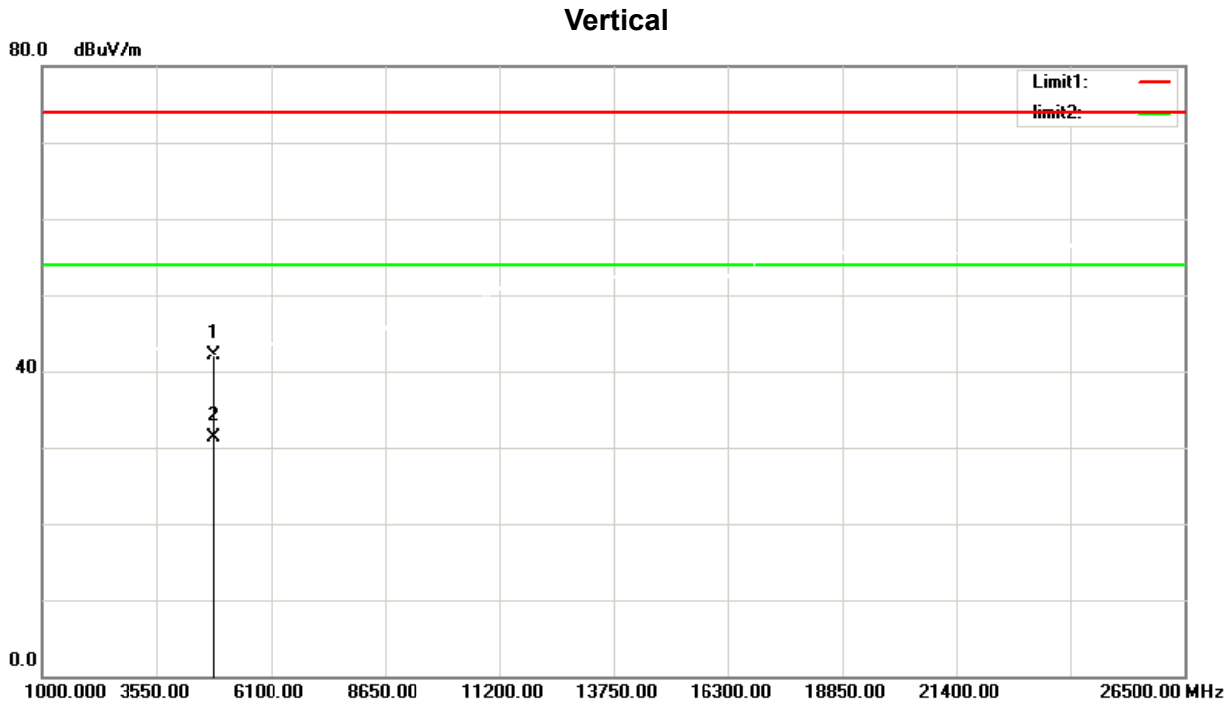
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	53.21	-8.90	44.31	74.00	-29.69	peak
2	4924.000	42.13	-8.90	33.23	54.00	-20.77	AVG

Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz



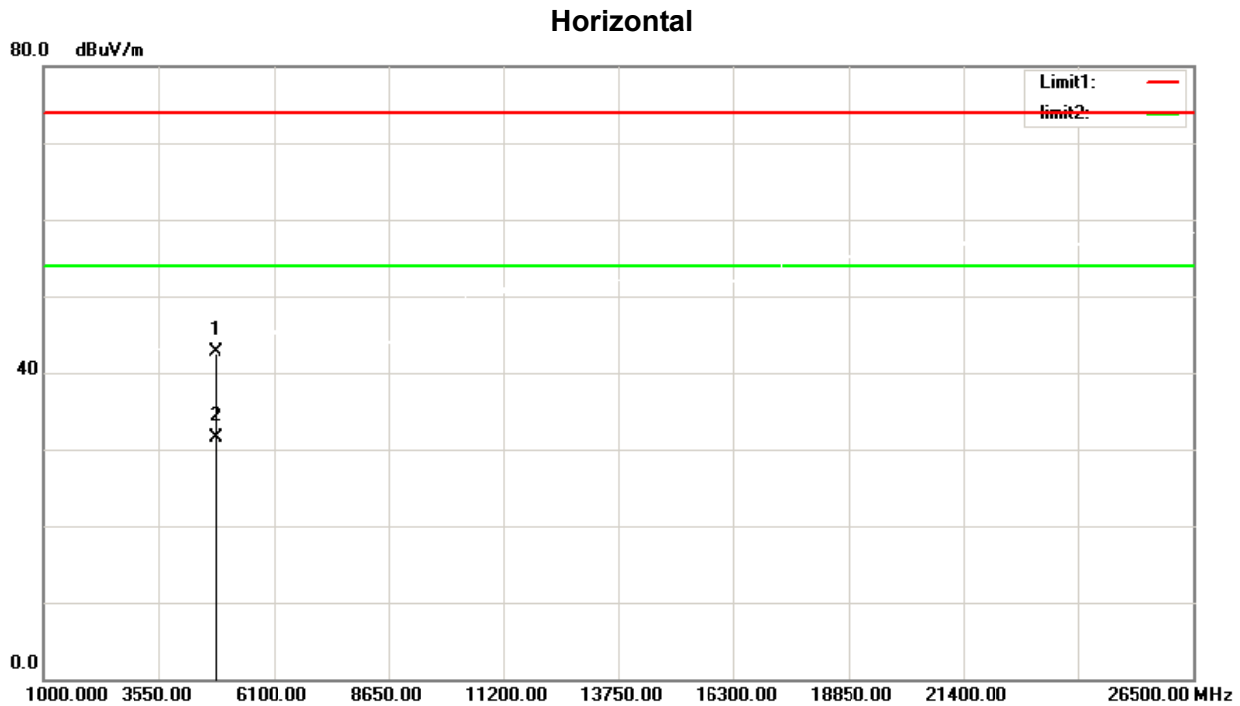
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	53.62	-8.90	44.72	74.00	-29.28	peak
2	4924.000	41.41	-8.90	32.51	54.00	-21.49	AVG

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2412 MHz



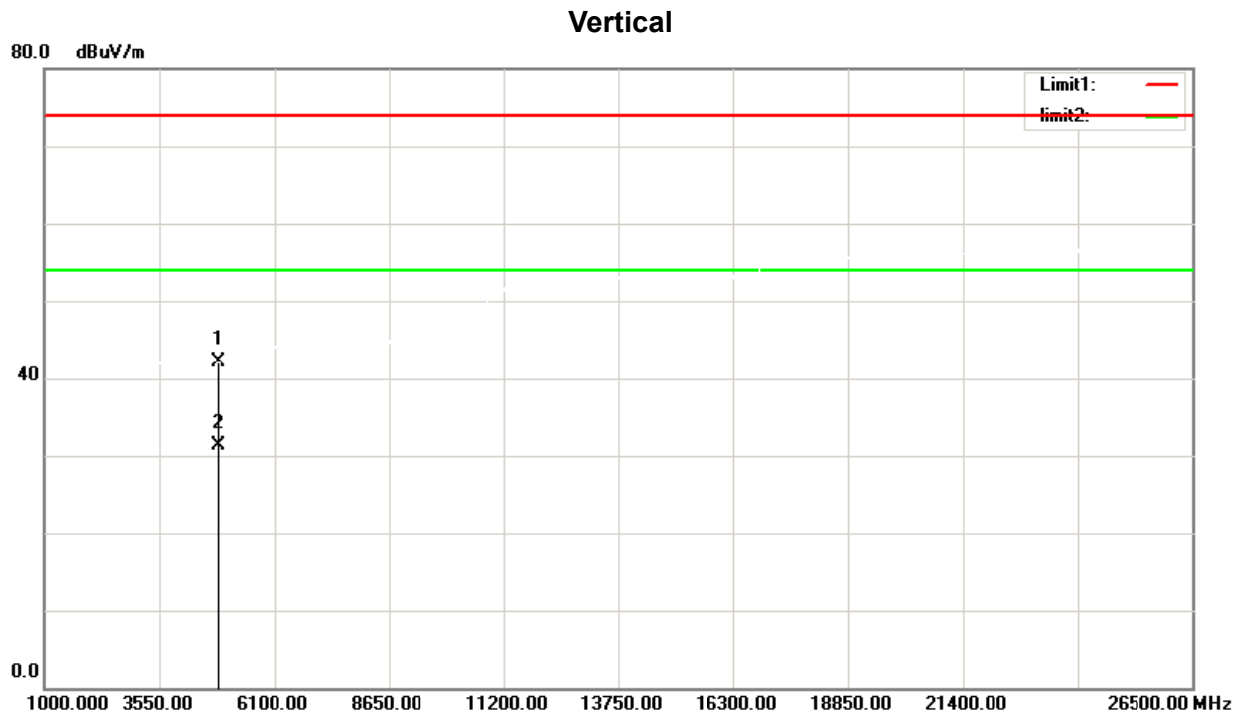
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	51.38	-9.20	42.18	74.00	-31.82	peak
2	4824.000	40.44	-9.20	31.24	54.00	-22.76	AVG

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2412 MHz



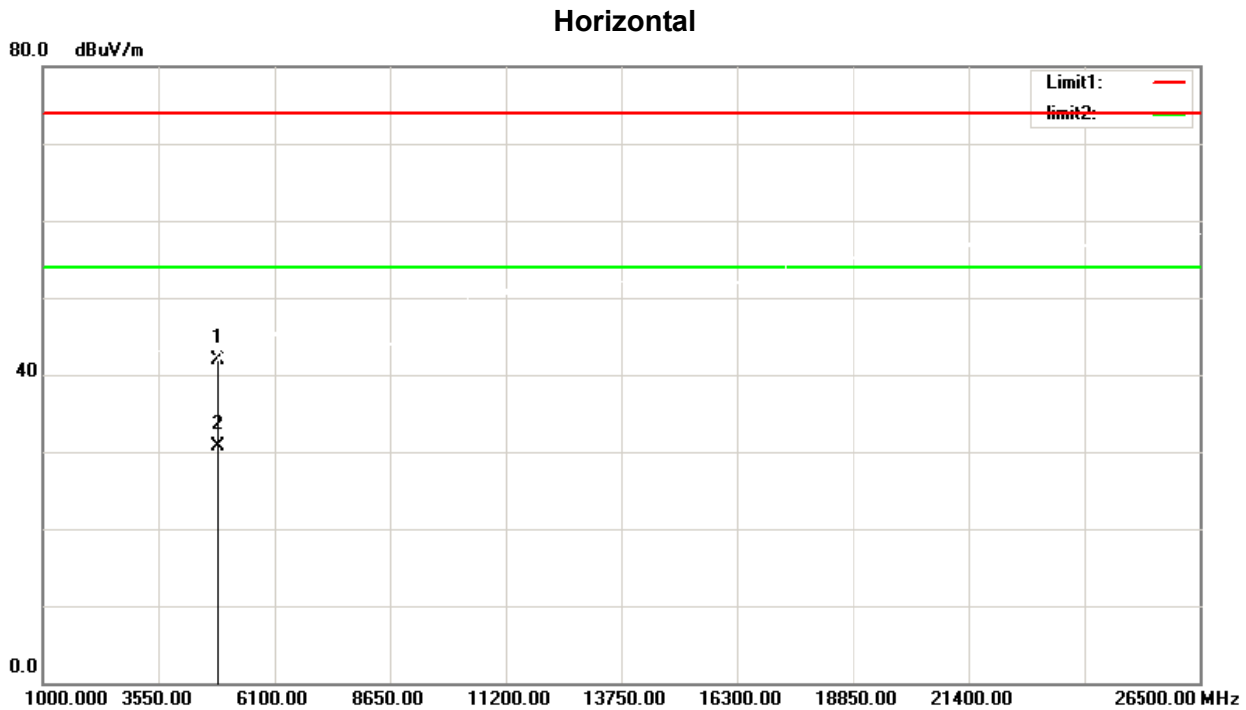
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	51.83	-9.20	42.63	74.00	-31.37	peak
2	4824.000	40.71	-9.20	31.51	54.00	-22.49	AVG

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2437 MHz



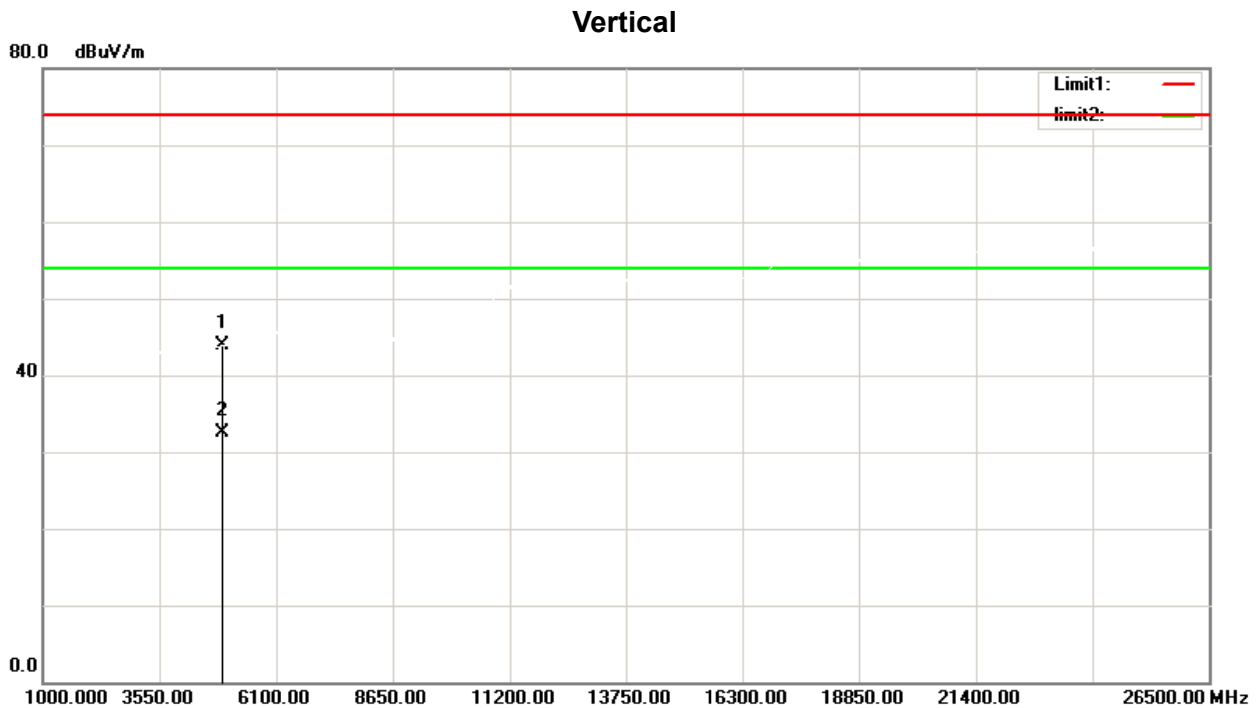
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	51.23	-9.05	42.18	74.00	-31.82	peak
2	4874.000	40.34	-9.05	31.29	54.00	-22.71	AVG

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2437 MHz



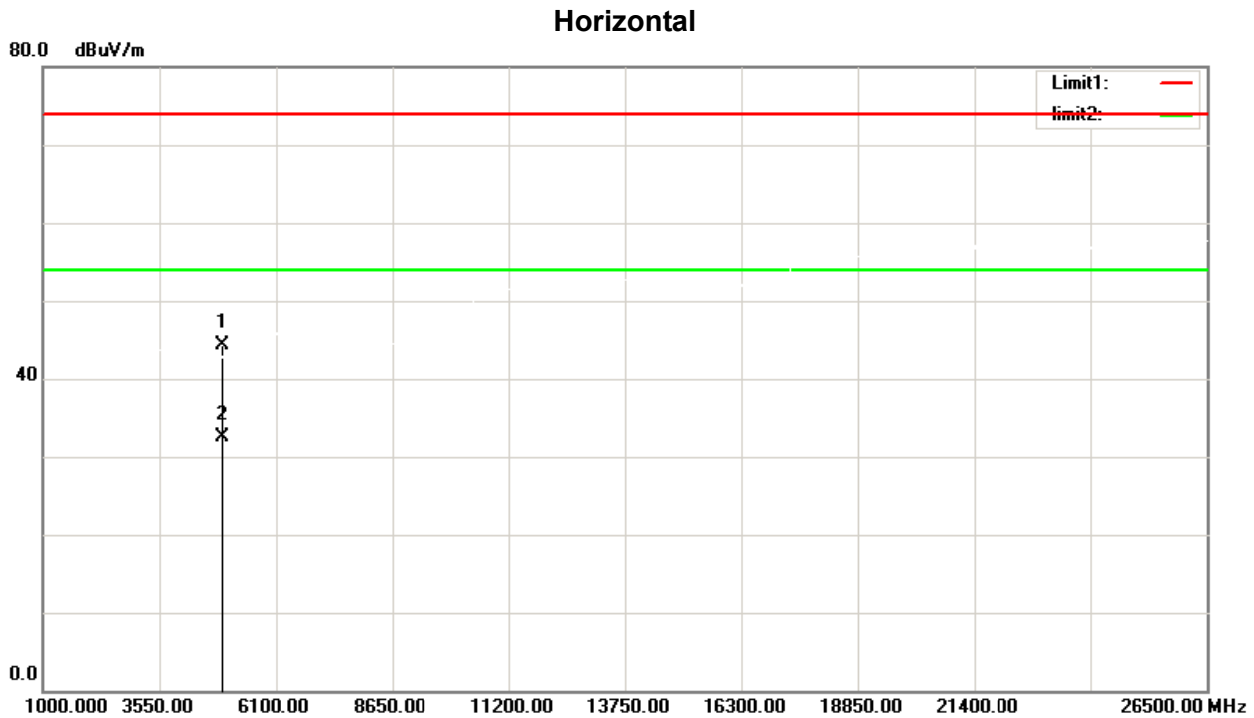
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	50.94	-9.05	41.89	74.00	-32.11	peak
2	4874.000	39.67	-9.05	30.62	54.00	-23.38	AVG

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2462 MHz



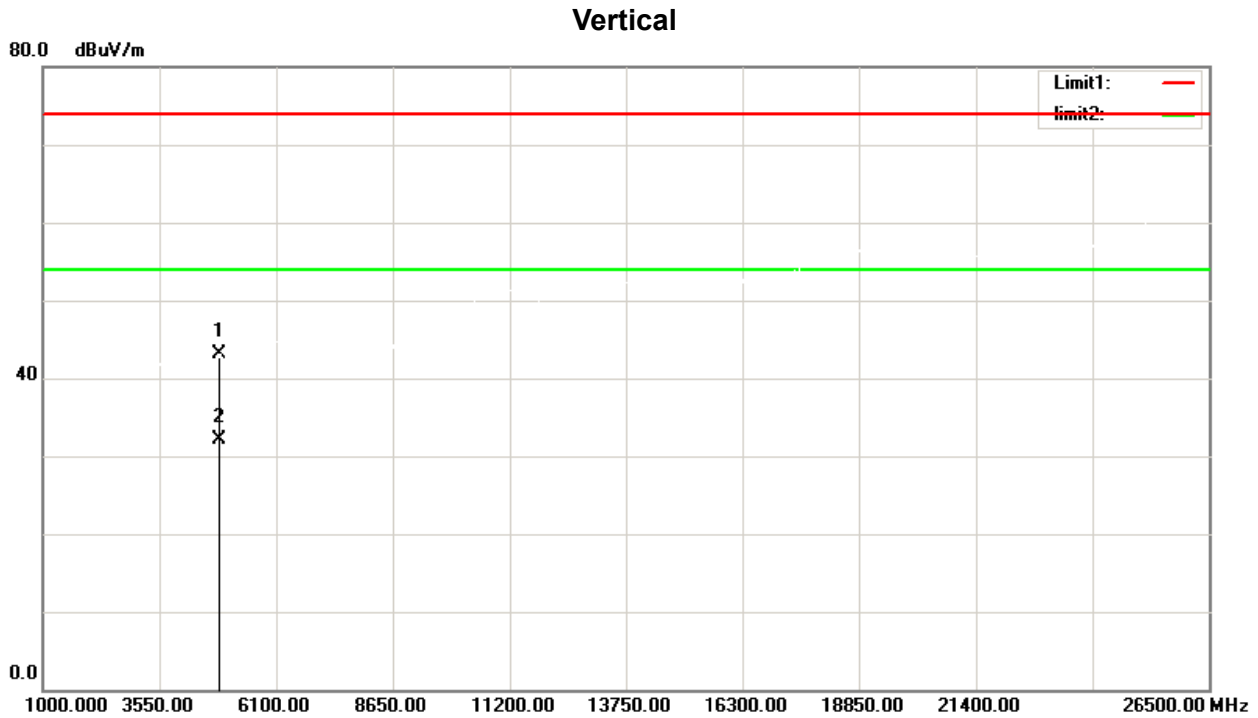
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	52.71	-8.90	43.81	74.00	-30.19	peak
2	4924.000	41.41	-8.90	32.51	54.00	-21.49	AVG

Orthogonal Axis	X
Test Mode:	TX N-20M Mode 2462 MHz



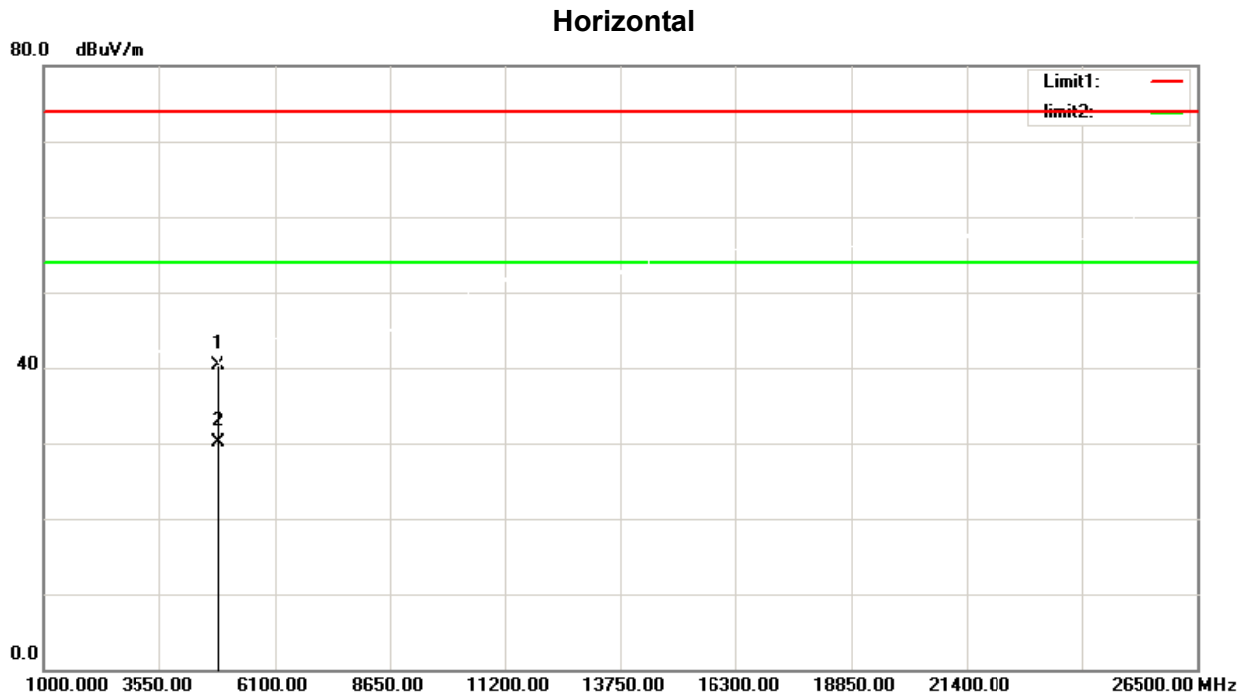
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	53.12	-8.90	44.22	74.00	-29.78	peak
2	4924.000	41.41	-8.90	32.51	54.00	-21.49	AVG

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2422MHz



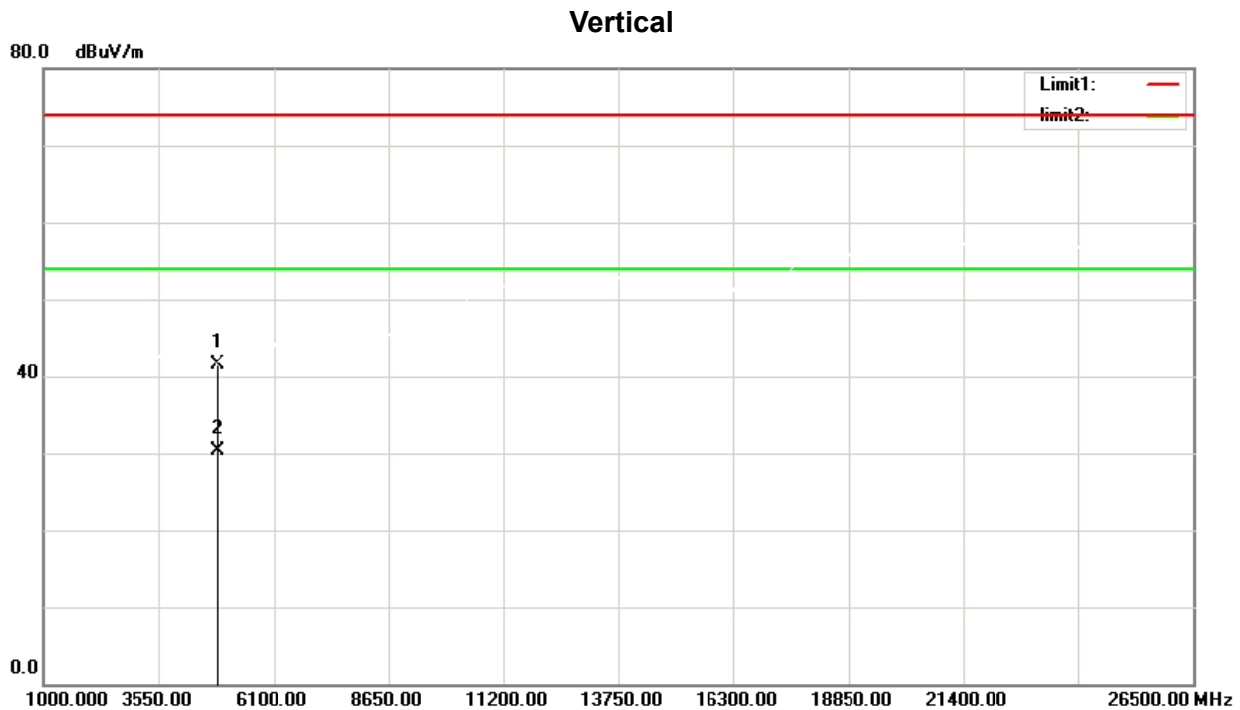
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	52.19	-9.14	43.05	74.00	-30.95	peak
2	4844.000	41.29	-9.14	32.15	54.00	-21.85	AVG

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2422MHz



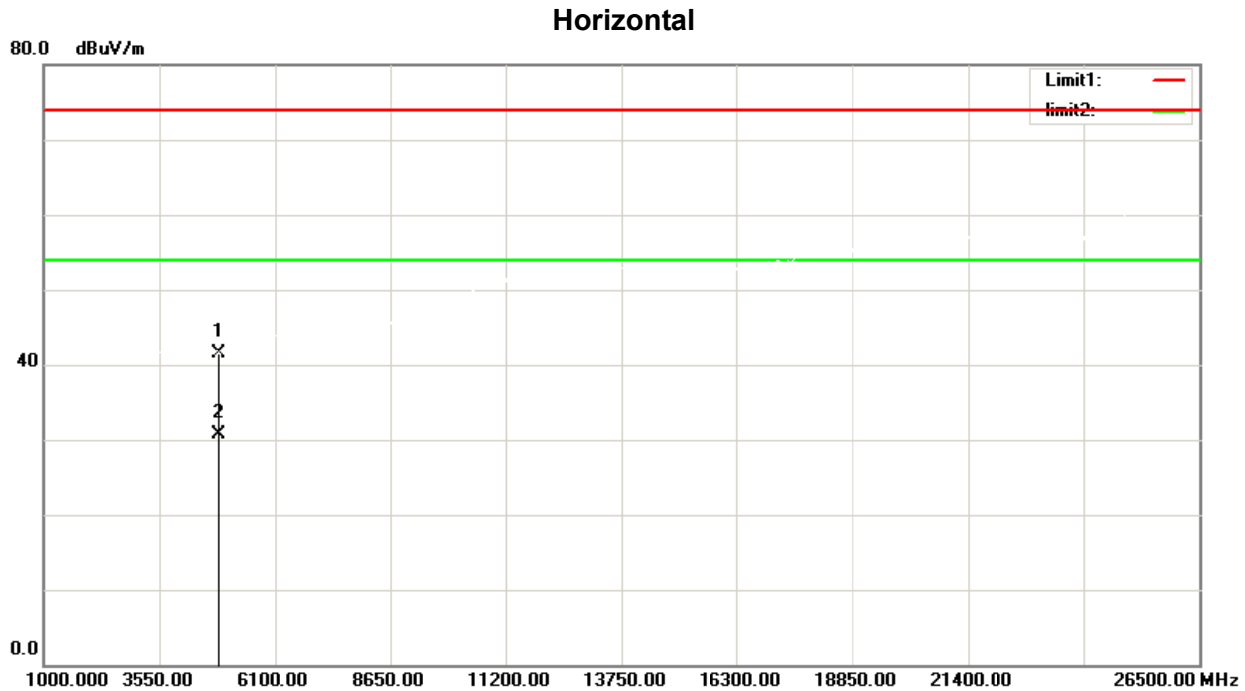
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	49.52	-9.14	40.38	74.00	-33.62	peak
2	4844.000	39.34	-9.14	30.20	54.00	-23.80	AVG

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2437 MHz



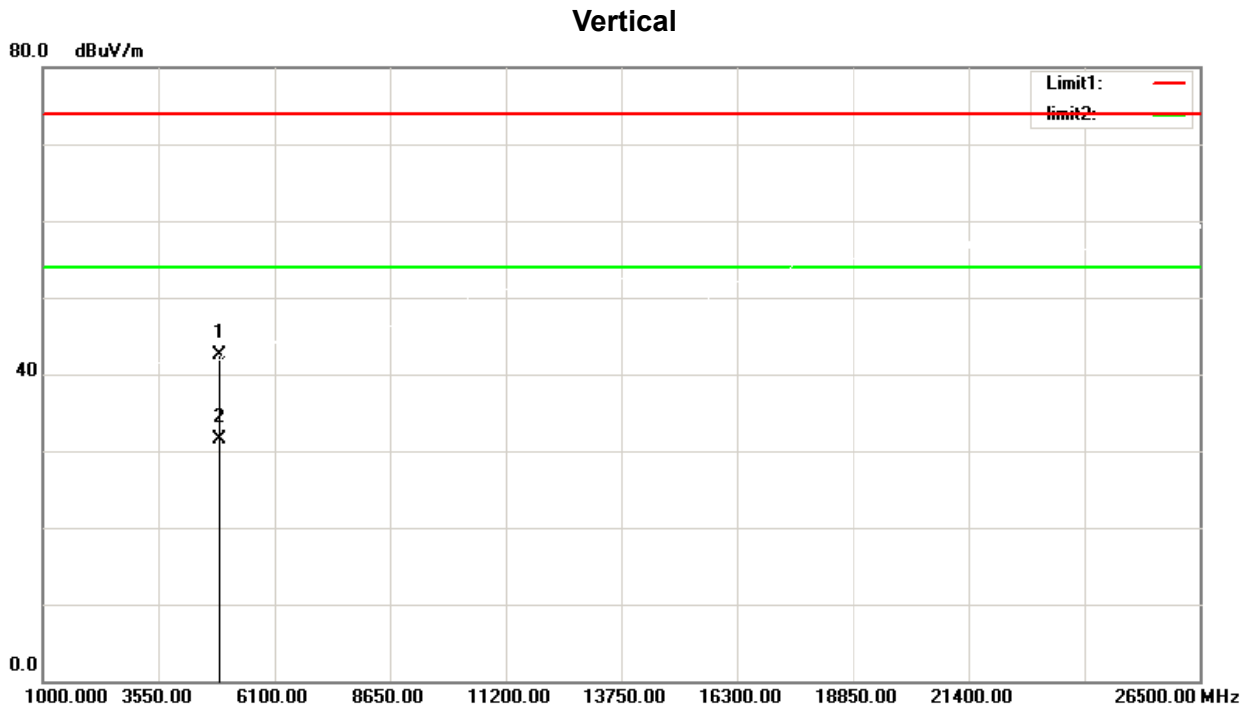
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	50.64	-9.05	41.59	74.00	-32.41	peak
2	4874.000	39.30	-9.05	30.25	54.00	-23.75	AVG

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2437 MHz



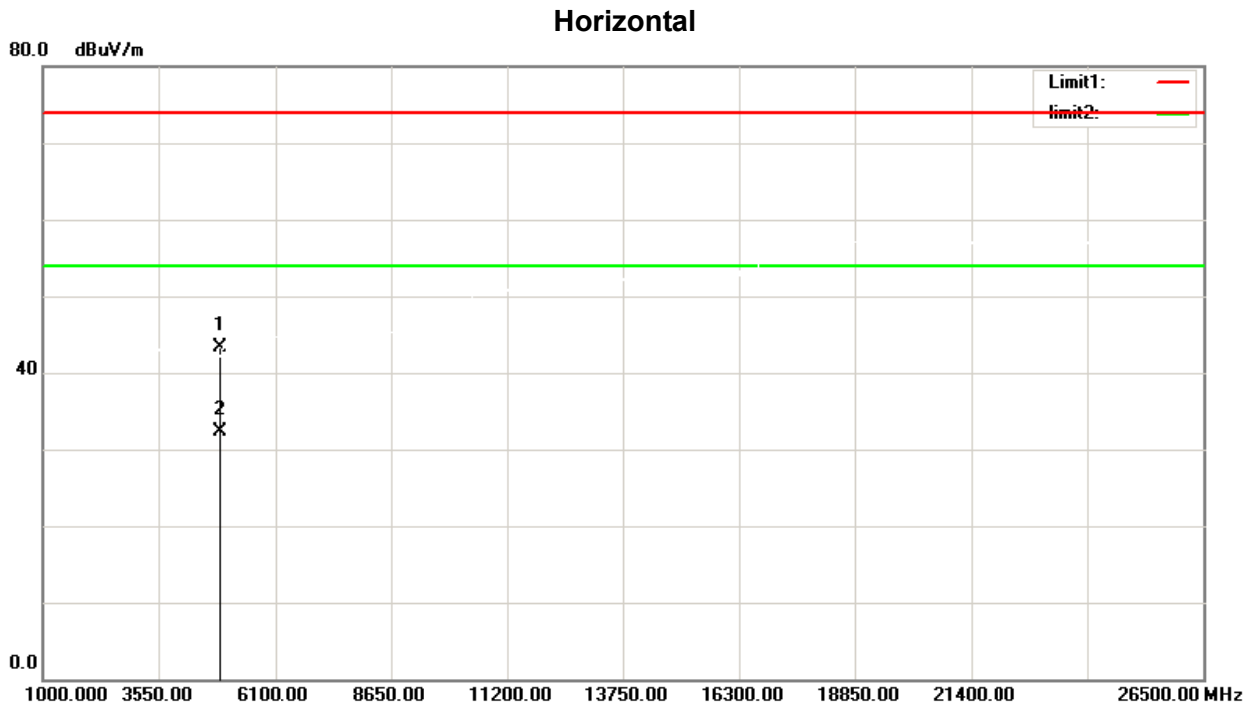
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	50.55	-9.05	41.50	74.00	-32.50	peak
2	4874.000	39.67	-9.05	30.62	54.00	-23.38	AVG

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2452 MHz



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	51.44	-8.96	42.48	74.00	-31.52	peak
2	4904.000	40.38	-8.96	31.42	54.00	-22.58	AVG

Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2452 MHz



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	52.27	-8.96	43.31	74.00	-30.69	peak
2	4904.000	41.21	-8.96	32.25	54.00	-21.75	AVG

6 BANDWIDTH TEST**6.1 LIMIT**

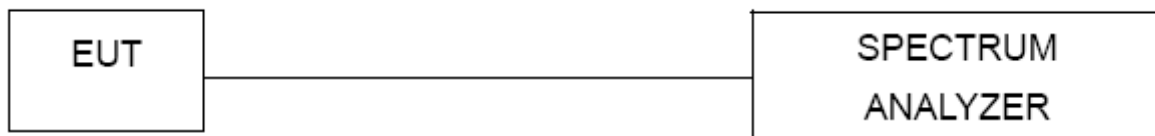
FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(a)(2)	6dB Bandwidth	Minimum 500 kHz
	99% Emission Bandwidth	-

6.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. For 6dB Bandwidth Spectrum setting:RBW= 100KHz, VBW=300KHz, Sweep time = 2.5ms.
For 99% OBW Spectrum Setting: RBW= 300KHz, VBW=1MHz,Sweep time = 2.5ms.
- c. The bandwidth was performed in accordance with method 11.8.1 of ANSI C63.10-2013.

6.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/28
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

6.4 TEST SETUP**6.5 EUT OPERATION CONDITIONS**

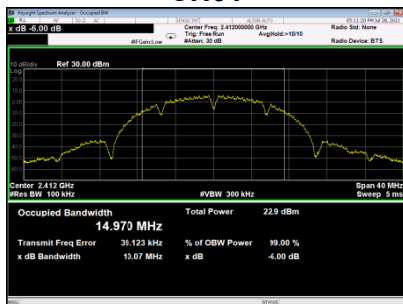
The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

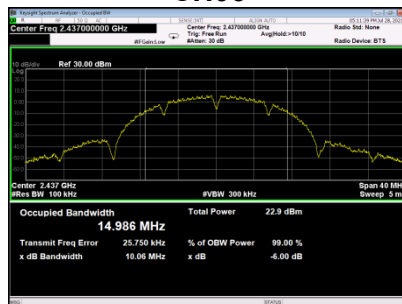
TX B Mode					
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Emission Bandwidth (MHz)	6dB Bandwidth Min. Limit(kHz)	Result
01	2412	10.07	14.992	500	PASS
06	2437	10.06	15.006	500	PASS
11	2462	10.08	15.021	500	PASS

6dB

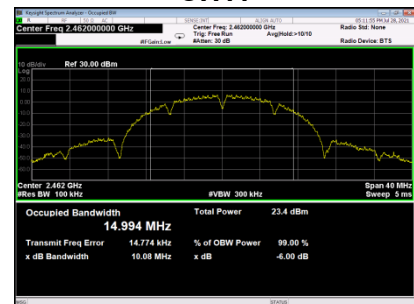
CH01



CH06

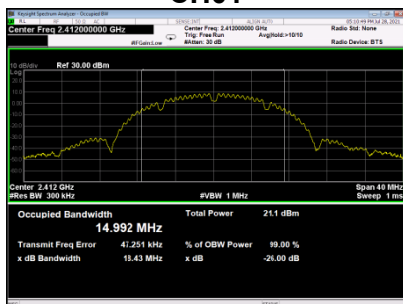


CH11

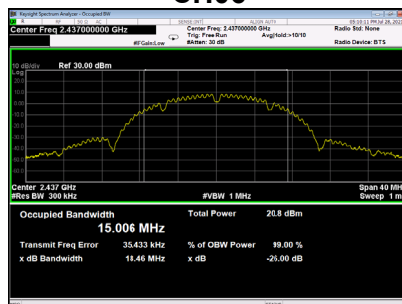


99%

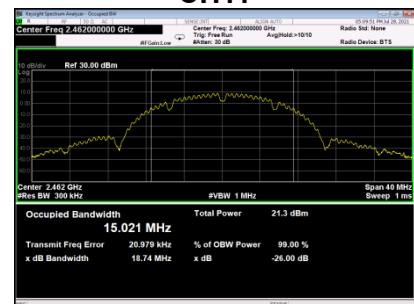
CH01



CH06



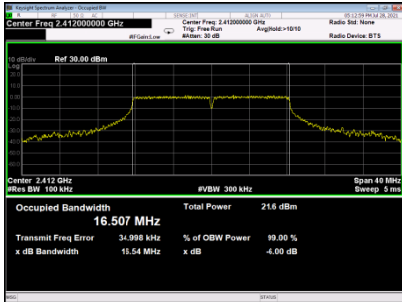
CH11



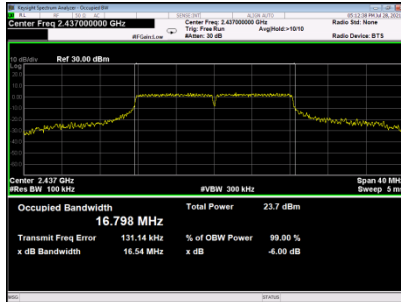
TX G Mode					
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Emission Bandwidth (MHz)	6dB Bandwidth Min. Limit(kHz)	Result
01	2412	16.54	16.981	500	PASS
06	2437	16.54	17.257	500	PASS
11	2462	16.56	17.021	500	PASS

6dB

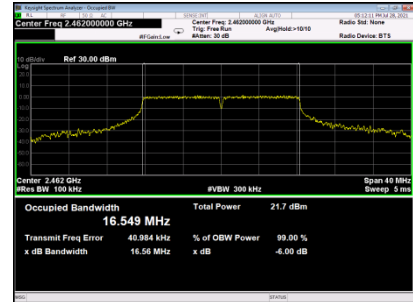
CH01



CH06

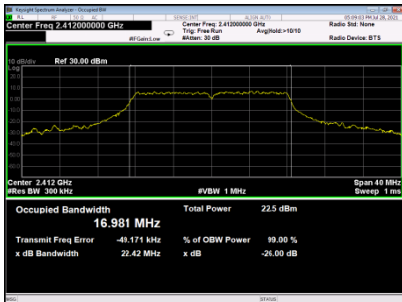


CH11

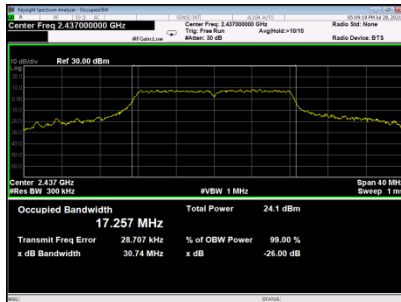


99%

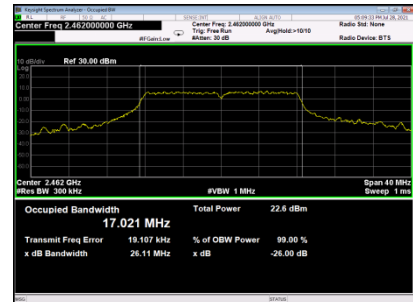
CH01



CH06



CH11

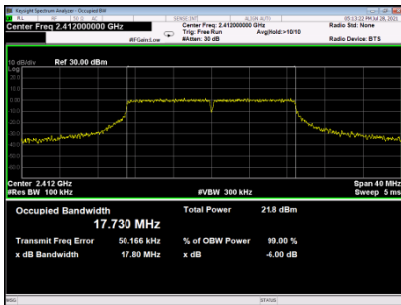


TX N (HT20) Mode

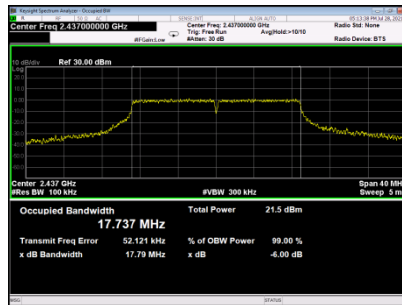
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% EmissionBandwidth(MHz)	6dB Bandwidth Min. Limit(kHz)	Result
01	2412	17.80	18.058	500	PASS
06	2437	17.79	18.093	500	PASS
11	2462	17.79	18.158	500	PASS

6dB

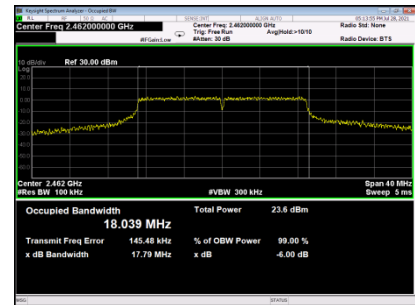
CH01



CH06

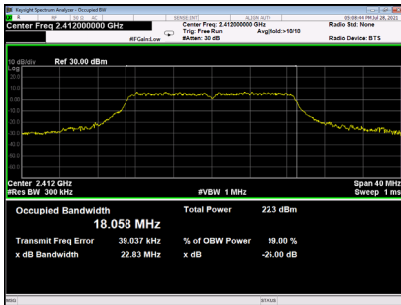


CH11

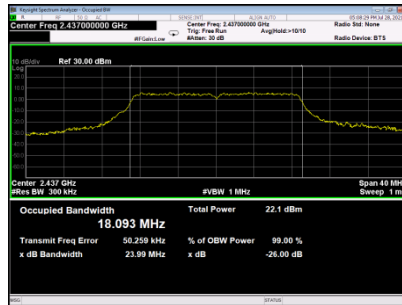


99%

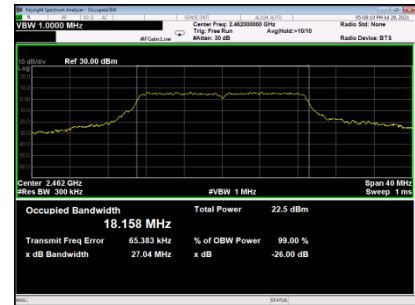
CH01



CH06



CH11

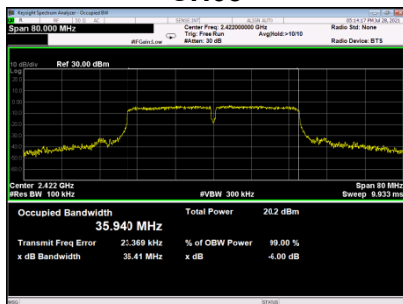


TX N (HT40) Mode

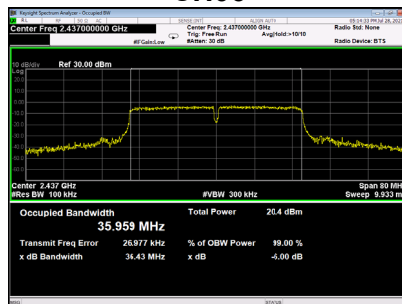
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Emission Bandwidth (MHz)	6dB Bandwidth Min. Limit(kHz)	Result
03	2422	36.41	36.410	500	PASS
06	2437	36.43	36.400	500	PASS
09	2452	36.43	36.415	500	PASS

6dB

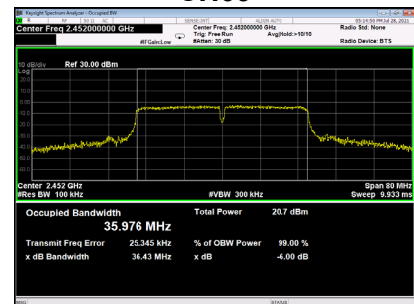
CH03



CH06

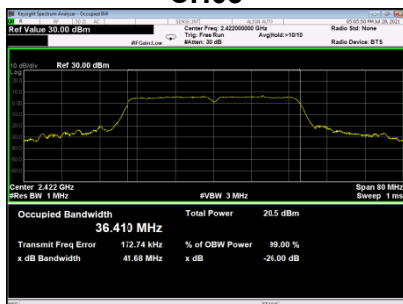


CH09

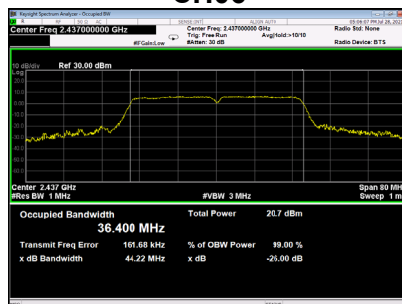


99%

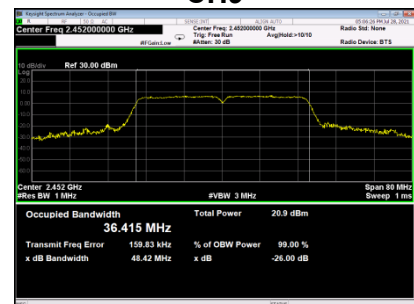
CH03



CH06



CH9



7. MAXIMUM OUTPUT POWER TEST

7.1. LIMIT

FCC Part 15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm

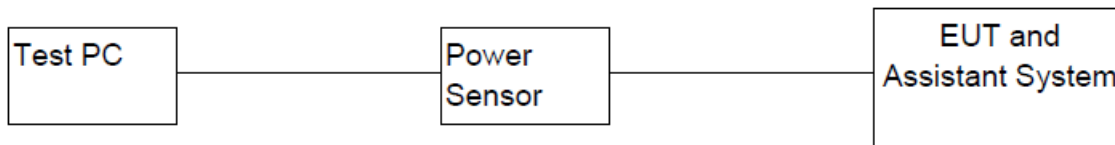
7.2. TEST PROCEDURE AND SETTING

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.1.3 of ANSI C63.10-2013. and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

7.3. MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Power Sensor	KEYSIGHT	U2021XA	MY55240009	05/24/2022
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Micable	C10-01-01-1	100309	N/A
4	Test Software	KEYSIGHT	Power Panel	V3.11	N/A

7.4. TEST SETUP



7.5. EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

TX BMode				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (W)	Result
01	2412	19.92	0.0982	PASS
06	2437	19.93	0.0984	PASS
11	2462	20.36	0.1086	PASS
Limit	30dBm / 1W			

TX GMode				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (W)	Result
01	2412	23.93	0.2472	PASS
06	2437	24.14	0.2594	PASS
11	2462	24.18	0.2618	PASS
Limit	30dBm / 1W			

TX N (HT20)				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (W)	Result
01	2412	23.85	0.2427	PASS
06	2437	25.52	0.3565	PASS
11	2462	24.05	0.2541	PASS
Limit	30dBm / 1W			

TX N (HT40)				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (W)	Result
03	2422	23.74	0.2366	PASS
06	2437	23.28	0.2128	PASS
09	2452	23.55	0.2265	PASS
Limit	30dBm / 1W			

8 CONDUCTED SPURIOUS EMISSIONS

8.1 LIMIT

For FCC

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

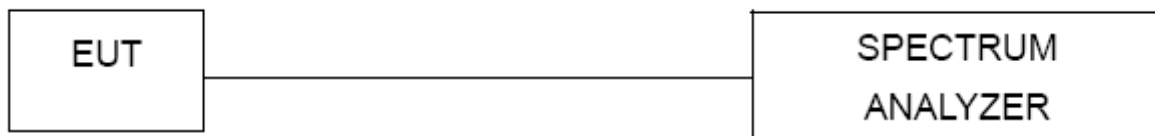
8.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = Auto.

8.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/28
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

8.4 TEST SETUP



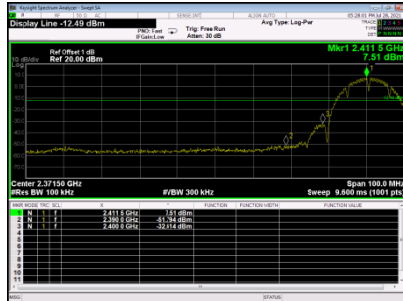
8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.6 TEST RESULTS

TX B Mode

Bandedge-CH01

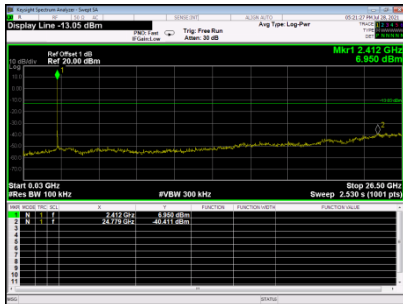


Bandedge-CH11

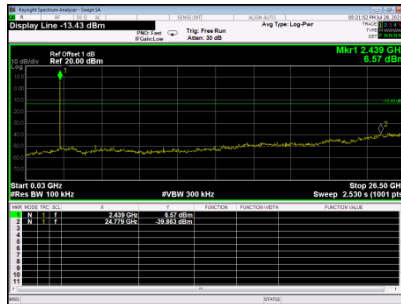


10th Harmonic of the fundamental frequency

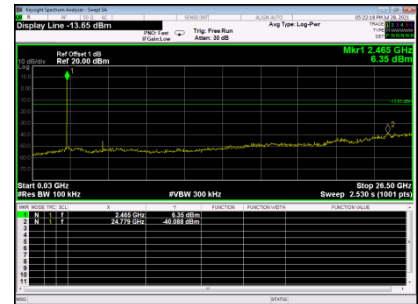
CH01



CH06

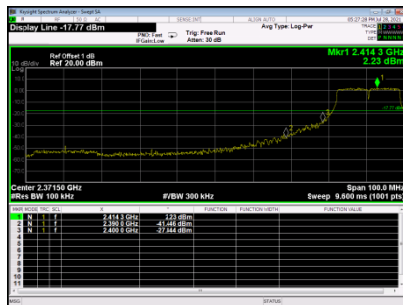


CH11



TX GMode

Bandedge-CH01

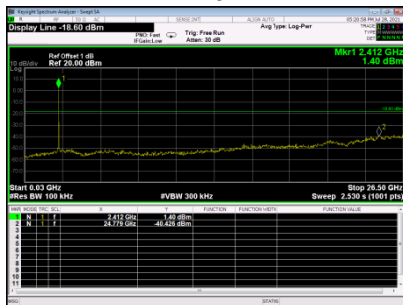


Bandedge-CH11

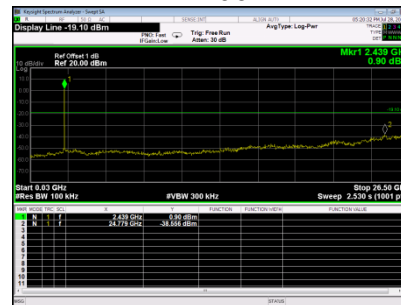


10th Harmonic of the fundamental frequency

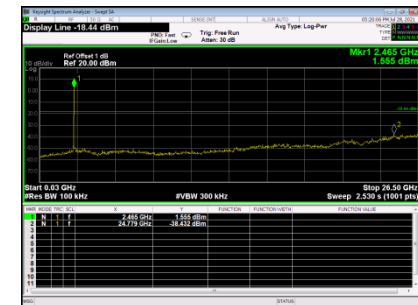
CH01



CH06



CH11



TX N (HT20) Mode

Bandedge-CH01

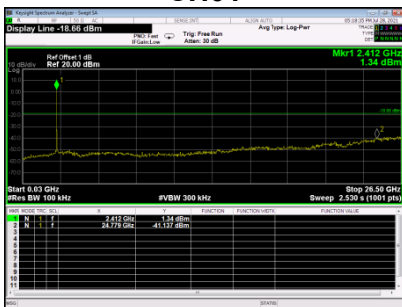


Bandedge-CH11

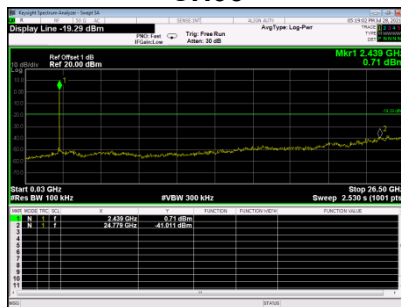


10th Harmonic of the fundamental frequency

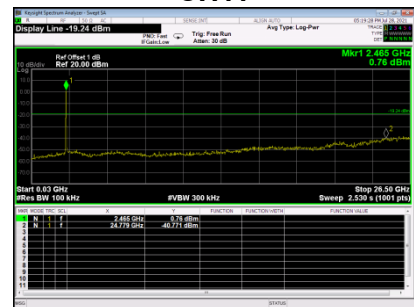
CH01



CH06

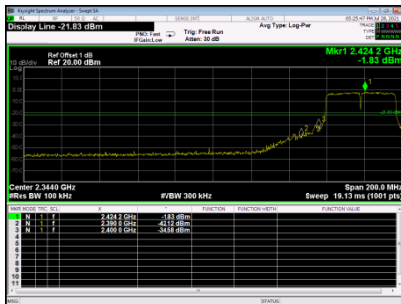


CH11



TX N (HT40) Mode

Bandedge-CH03

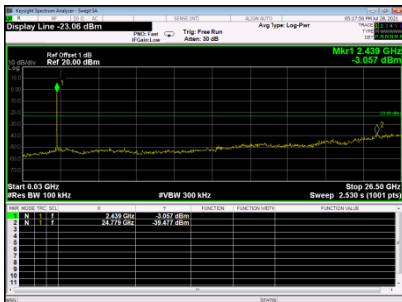


Bandedge-CH09

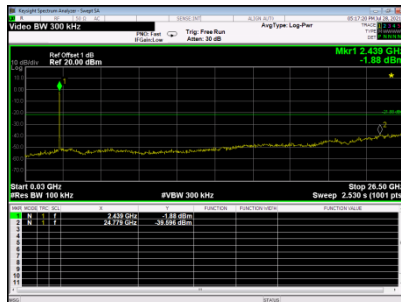


10th Harmonic of the fundamental frequency

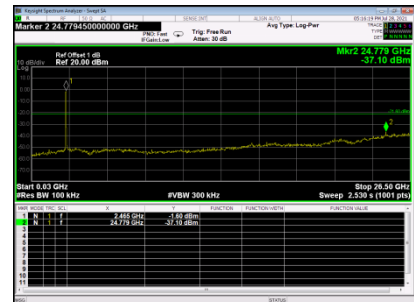
CH03



CH06



CH09



9 POWER SPECTRAL DENSITY TEST**9.1 LIMIT**

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

9.2 TEST PROCEDURE AND SETTING

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW=3 kHz, VBW=10 kHz, Sweep time = Auto.
- The Power Spectral Density was performed in accordance with method 11.10.2 of ANSI C63.10-2013.

9.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2022/05/28
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

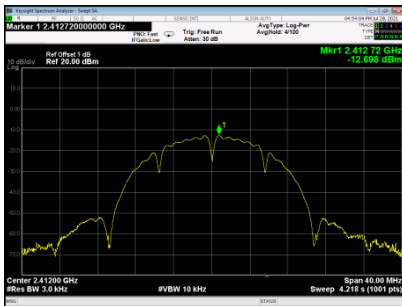
9.4 TEST SETUP**9.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

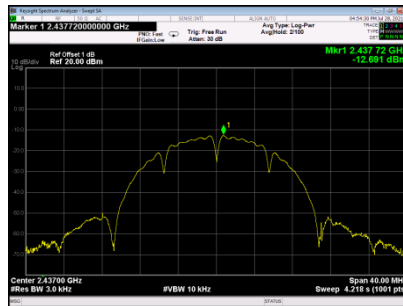
9.6 TEST RESULTS

TX B Mode				
Channel	Frequency (MHz)	Power SpectralDensity (dBm/3 kHz)	Limit: <dBm/3KHz	Result
01	2412	-12.698	8	PASS
06	2437	-12.691	8	PASS
11	2462	-12.340	8	PASS

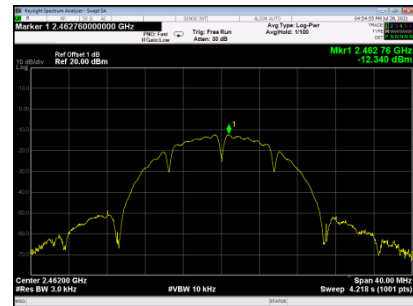
CH01



CH06

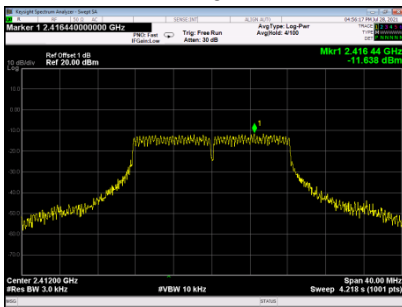


CH11

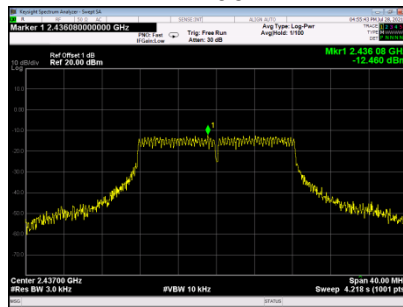


TX GMode				
Channel	Frequency (MHz)	Power SpectralDensity (dBm/3 kHz)	Limit: <dBm/3KHz	Result
01	2412	-11.638	8	PASS
06	2437	-12.460	8	PASS
11	2462	-11.897	8	PASS

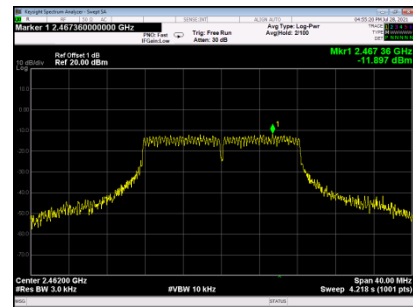
CH01



CH06



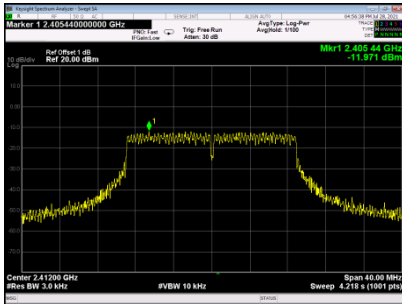
CH11



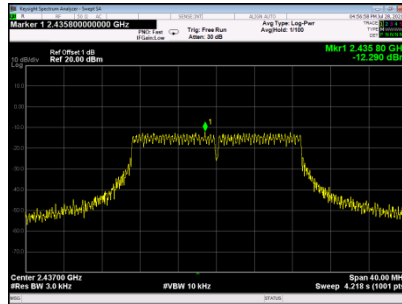
TX N (HT20) Mode

Channel	Frequency (MHz)	Power SpectralDensity (dBm/3 kHz)	Limit: <dBm/3KHz	Result
01	2412	-11.971	8	PASS
06	2437	-12.290	8	PASS
11	2462	-10.181	8	PASS

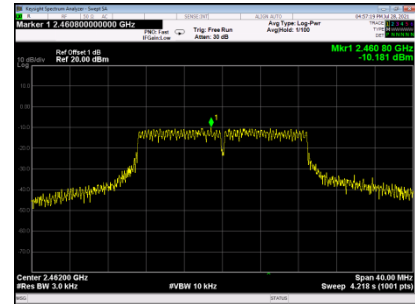
CH01



CH06



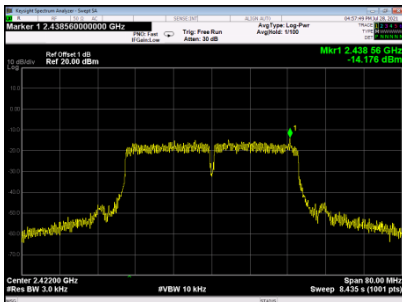
CH11



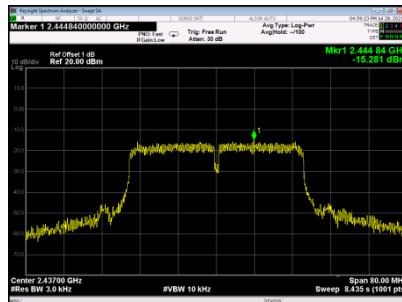
TX N (HT40) Mode

Channel	Frequency (MHz)	Power SpectralDensity (dBm/3 kHz)	Limit: <dBm/3KHz	Result
03	2422	-14.176	8	PASS
06	2437	-15.281	8	PASS
09	2452	-12.318	8	PASS

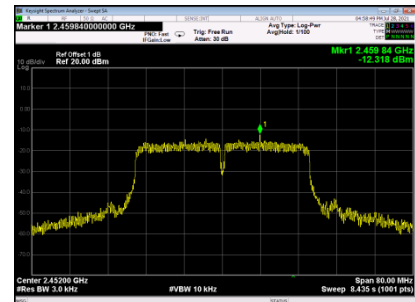
CH03



CH06



CH09



END OF TEST REPORT