Product Name: Wireless Access Point	**Report No: FCC022022-05522RF1**
Product Model: AP 6SA	**Security Classification: Open**
Version: V1.0	**Total Page: 110**

TIRT Testing Report

Prepared By:	Checked By:	Approved By:	
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FCC Radio Test Report

FCC ID: 2A3WK-AP6SA

This report concerns: Original Grant

Project No.	:	2022-05522
Equipment	:	Wireless Access Point
Brand Name	:	NOMADIX®
Test Model	:	AP 6SA
Series Model	:	N/A
Applicant	:	Nomadix, Inc.
Address	:	21600 Oxnard Street - 19th floor, Woodland Hills, California, United States
Manufacturer	:	Nomadix, Inc.
Address	:	21600 Oxnard Street - 19th floor, Woodland Hills, California, United States
Date of Receipt	:	2022.05.11
Date of Test	:	2022.05.13-2022.07.14
Issued Date	:	2022.10.24
Report Version	:	V1.0
Test Sample	:	Engineering Sample No.: 20220421018665
Standard(s)	:	FCC CFR Title 47, Part 15, Subpart C FCC KDB 558074 D01 15.247 Meas Guidance v05r02 FCC KDB 662911 D01 Multiple Transmitter Output v02r01 ANSI C63.10-2013

- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc. the test report shall not reproduced except in full.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
FCC022022-05522RF1	V1.0	Original Report.	2022.10.24	Valid

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C				
Standard(s) Section	**Test Item**	**Test Result**	**Judgment**	**Remark**
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	------
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	------
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	------
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	------
15.247(d)	Conducted Spurious Emissions	APPENDIX G	PASS	------
15.247(e)	Power Spectral Density	APPENDIX H	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.

1.1 TEST LOCATION

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen
Address:	101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan District, Shenzhen, China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number:	6049.01
FCC Accredited Lab. Designation Number:	CN1309
FCC Test Firm Registration Number:	825524
Telephone:	+86-0755-27087573

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))
The TIRT measurement uncertainty as below table:

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	±142.12 kHz
RF power conducted	±0.74 dB
RF power radiated	±3.25 dB
Spurious emissions, conducted	±1.78 dB
Spurious emissions, radiated (30MHz~1GHz)	±4.6 dB
Spurious emissions, radiated (1GHz~18GHz)	±4.9 dB
Conduction Emissions(150kHz~30MHz)	±3.1 dB
Humidity	±4.6 %
Temprature	±0.7 °C
Time	±1.2 %

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	56%	AC 120V/60Hz	Stone Tang
Radiated Emissions-9kHz to 30 MHz	24°C	62%	PoE 48V	Stone Tang
Radiated Emissions-30MHz to 1000MHz	24°C	54%	PoE 48V	Stone Tang
Radiated Emissions-Above 1000MHz	22°C	50%	PoE 48V	Stone Tang
Bandwidth	24°C	62%	PoE 48V	Stone Tang
Maximum Output Power	24°C	67%	PoE 48V	Stone Tang
Conducted Spurious Emissions	24°C	62%	PoE 48V	Stone Tang
Power Spectral Density	24°C	62%	PoE 48V	Stone Tang

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Access Point
Brand Name	NOMADIX®
Test Model	AP 6SA
Series Model	N/A
Model Difference(s)	N/A
Software Version	/
Hardware Version	/
Power Source	DC voltage supplied from PoE adapter or AC adapter. (Supports Unit)
Power Rating	PoE 48V ⎓ 0.3A; DC 48V ⎓ 0.6A
Operation Frequency	2412 MHz~2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA
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 300 Mbps IEEE 802.11ax: up to 573.6 Mbps
Maximum Output Power	IEEE 802.11b: 19.44 dBm (0.0879 W)

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), IEEE 802.11ax(HE20) CH03 - CH09 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)							
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. Antenna Specification:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	JIELEI	NDS-2.4G-WX-21	PIFA	RF Generation Terminal 113	4.39
2	JIELEI	NDS-2.4G2-WX-21	PIFA	RF Generation Terminal 113	2.75

Note:

1) This EUT supports CDD, and all antenna gains are not equal, Directional gain = G_{ANT}+Array Gain.
For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=4.39.
For power spectral density measurements, N_{ANT}=2, N_{SS} = 1.
So the Directional gain=G_{ANT}+Array Gain=G_{ANT}+10log(N_{ANT}/ N_{SS})dBi=4.39+10log(2/1)dBi=7.40.
Then, the power spectral density limit is 8-(7.40-6)=6.60.
2) The antenna gain is provided by the manufacturer.

4. Table for Antenna Configuration:

Operating Mode / TX Mode	2TX
IEEE 802.11b	V (Ant. 1 + Ant. 2)
IEEE 802.11g	V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)	V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)	V (Ant. 1 + Ant. 2)

2.2 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(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09
Mode 7	TX B Mode Channel 06

Following mode(s) was (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 7	TX B Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 7	TX B 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(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

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(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

NOTE:
(1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
(2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX B Mode Channel 06 is found to be the worst case and recorded.
(3) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
(4) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.
(5) For radiated emission above 1 GHz test, the polarization of Vertical and Hoizontal are evaluated, the worst case is Vertical and recorded.

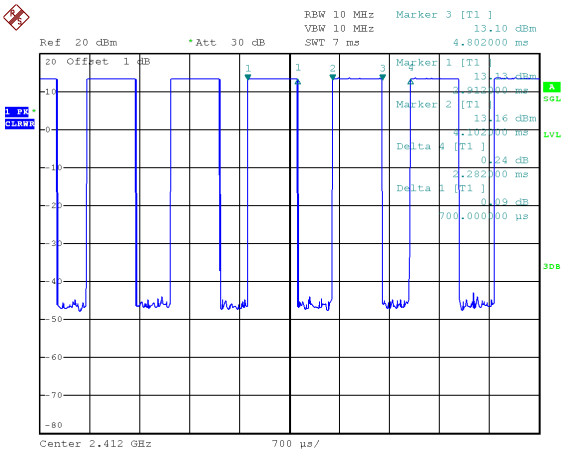
2.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	QDART-Connectivity1.0-00089		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	18.5	18.5	18.5
IEEE 802.11g	16.5	16	16
IEEE 802.11n(HT20)	17	16.5	17
IEEE 802.11ax(HE20)	16.5	16.5	16.5
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	16.5	16	16.5
IEEE 802.11ax(HE40)	16.5	16.5	17

2.4 DUTY CYCLE

If duty cycle is ≥ 98 %, duty factor is not required.
If duty cycle is < 98 %, duty factor shall be considered.
The output power = measured power + duty factor.

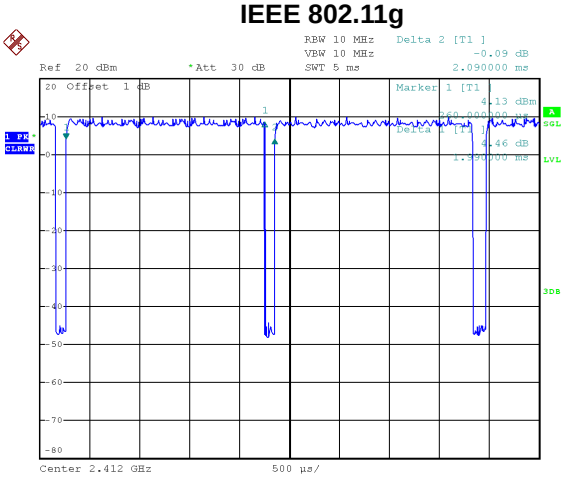
IEEE 802.11b



Date: 7.JUL.2022 21:57:51

Duty cycle = 1.400 ms / 2.282 ms = 61.35%
Duty Factor = 10 log(1/Duty cycle) = 2.12

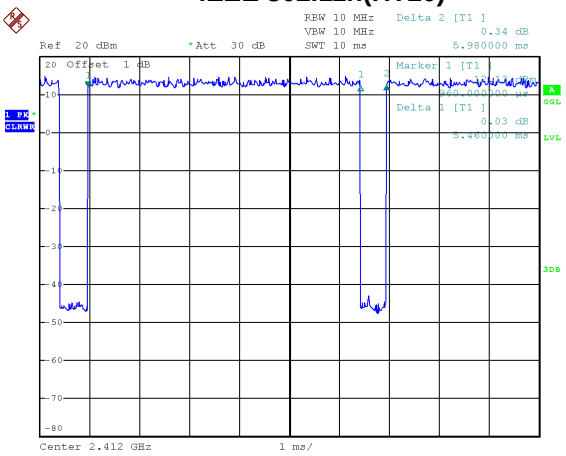
IEEE 802.11g



Date: 7.JUL.2022 21:29:06

Duty cycle = 1.990 ms / 2.090 ms = 95.22%
Duty Factor = 10 log(1/Duty cycle) = 0.21

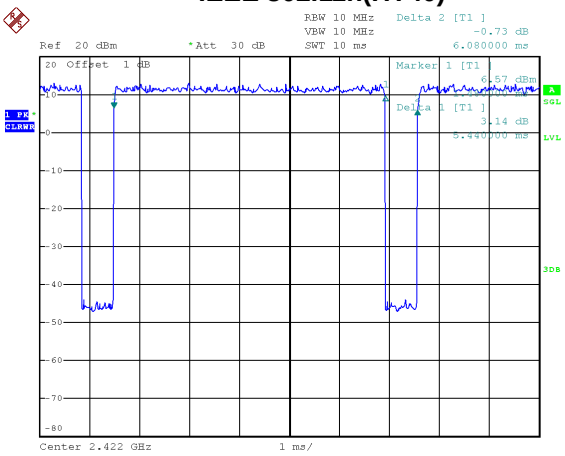
IEEE 802.11n(HT20)



Date: 7.JUL.2022 21:30:52

Duty cycle = 5.460 ms / 5.980 ms = 91.30%
Duty Factor = 10 log(1/Duty cycle) = 0.40

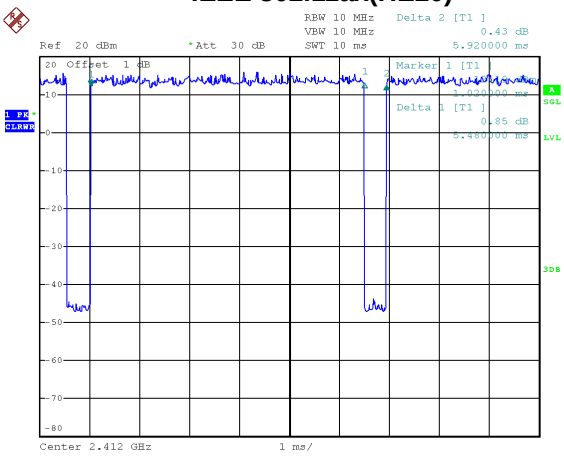
IEEE 802.11n(HT40)



Date: 7.JUL.2022 21:33:25

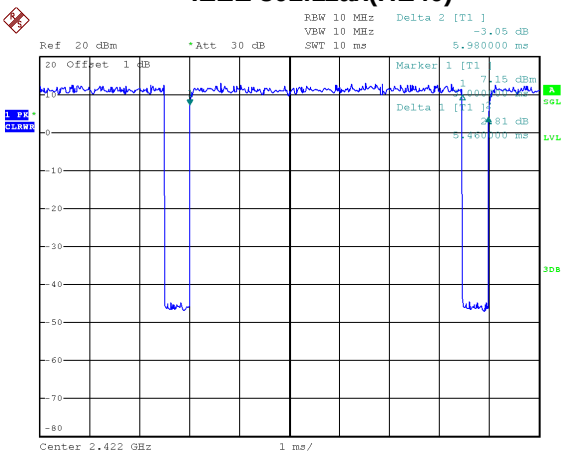
Duty cycle = 5.440 ms / 6.080 ms = 89.47%
Duty Factor = 10 log(1/Duty cycle) = 0.48

IEEE 802.11ax(HE20)



Duty cycle = 5.480 ms / 5.920 ms = 92.57%
Duty Factor = 10 log(1/Duty cycle) = 0.34

IEEE 802.11ax(HE40)



Duty cycle = 5.460 ms / 5.980 ms = 91.30%
Duty Factor = 10 log(1/Duty cycle) = 0.40

NOTE:
For IEEE 802.11b:
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 714 Hz.

For IEEE 802.11g:
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 503 Hz.

For IEEE 802.11n(HT20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 183 Hz.

For IEEE 802.11n(HT40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 184 Hz.

For IEEE 802.11ax(HE20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 182 Hz.

For IEEE 802.11ax(HE40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 183 Hz.

2.5 SUPPORT UNITS

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	RJ45 Cable	N/A	N/A	10m
2	RJ45 Cable	N/A	N/A	1m
3	Record PC	Lenovo	M4500T	NA
4	Control PC	Lenovo	M4500T	NA
5	AC Cable	N/A	N/A	1.5m
6	PoE	N/A	N/A	N/A

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 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.

3.2 TEST PROCEDURE

a. 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.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

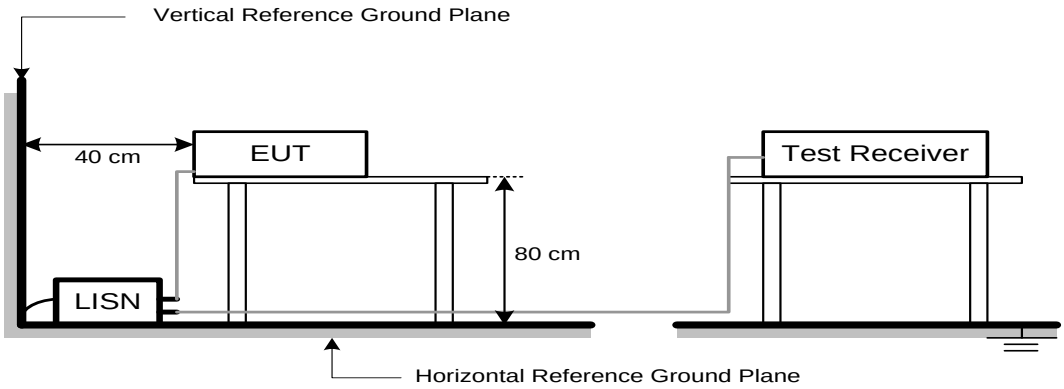
The following table is the setting of the receiver:

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

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS

4.1 LIMIT

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

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

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 (Above 1000 MHz)

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

NOTE:

(1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.

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

(3) Emission level (dBμV/m)=20log Emission level (μV/m).

4.2 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 1 GHz)
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 1 GHz)
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 1 GHz.
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 1 GHz)
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 1 GHz)
i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

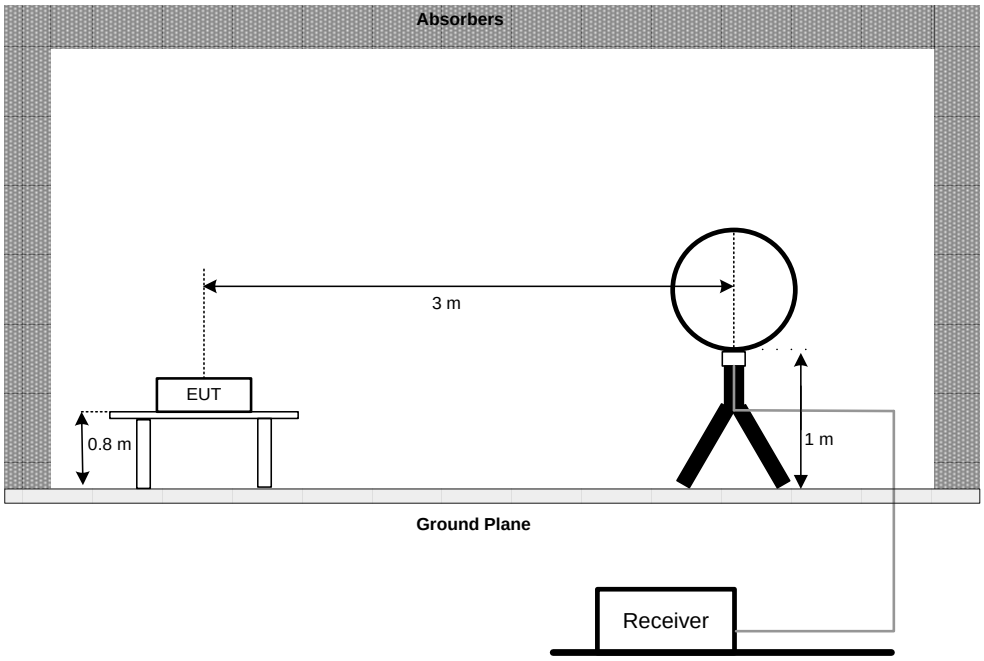
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

4.3 DEVIATION FROM TEST STANDARD

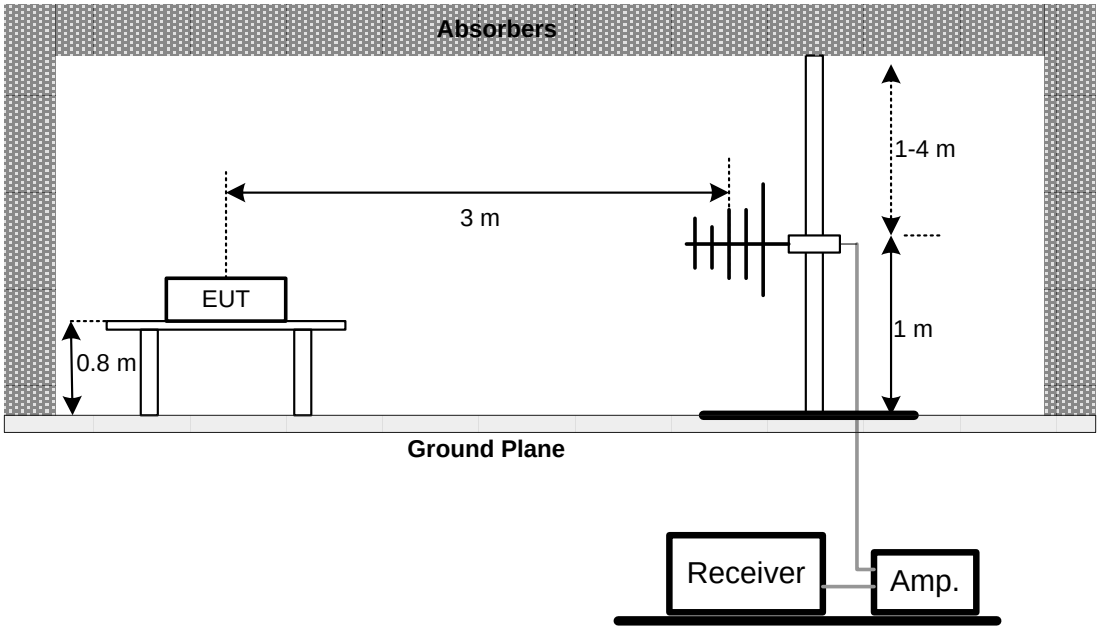
No deviation.

4.4 TEST SETUP

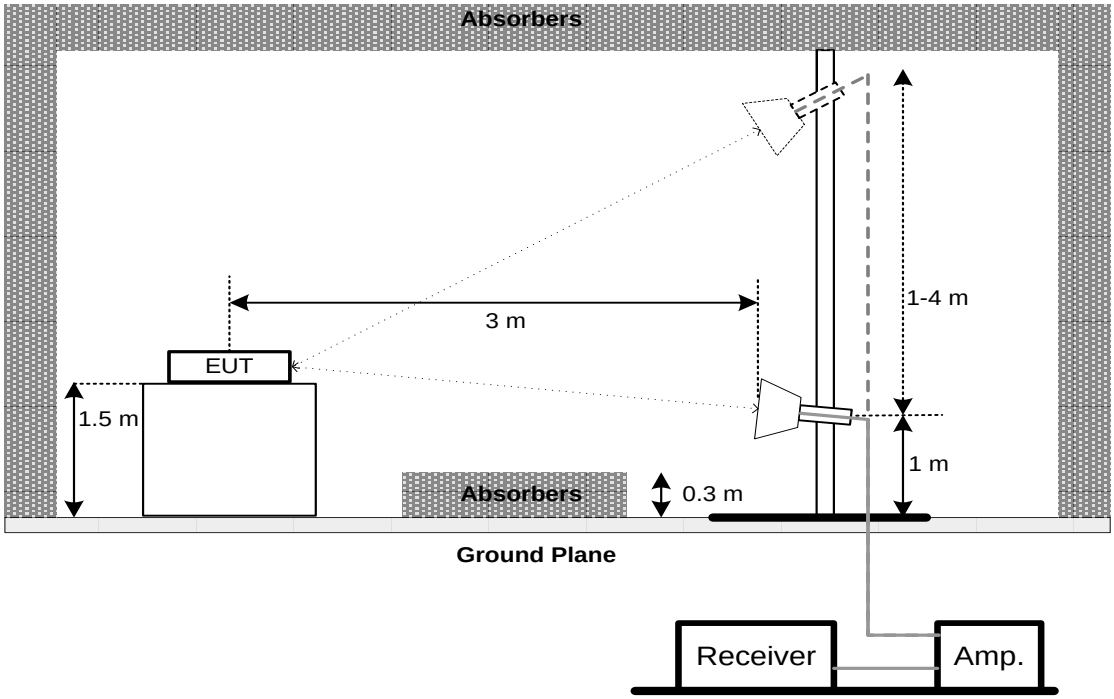
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

(1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(2) Limit line = specific limits (dBμV) + distance extrapolation factor.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. BANDWIDTH

5.1 LIMIT

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

5.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Spectrum Parameters	Setting
Span Frequency	> Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

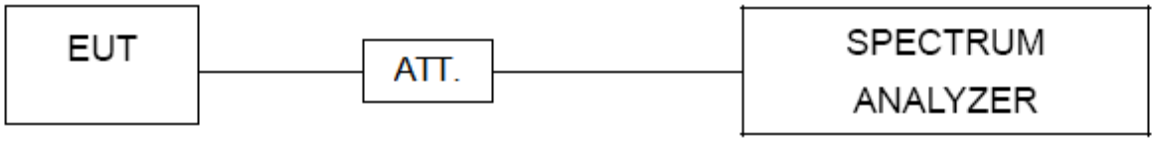
For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	300 kHz For 20MHz 1 MHz For 40MHz
VBW	1 MHz For 20MHz 3 MHz For 40MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER & E.I.R.P.

6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 Watt or 30.00 dBm

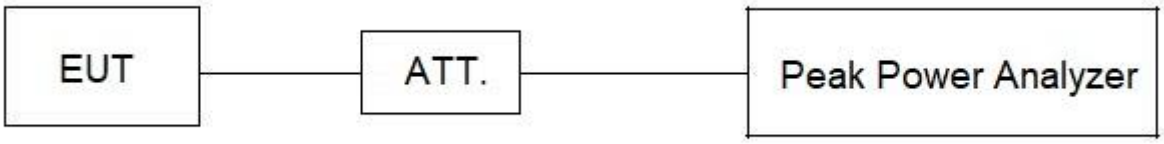
6.2 TEST PROCEDURE

a. The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
b. The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7. CONDUCTED SPURIOUS EMISSIONS

7.1 LIMIT

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.

7.2 TEST PROCEDURE

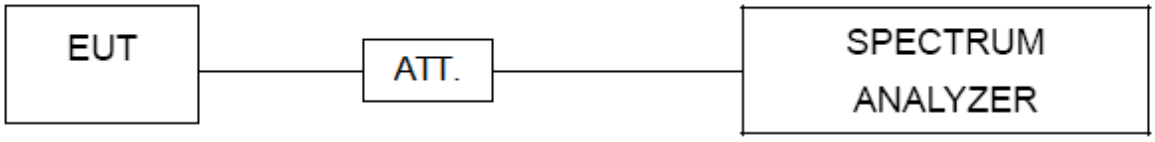
a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.

8. POWER SPECTRAL DENSITY

8.1 LIMIT

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

8.2 TEST PROCEDURE

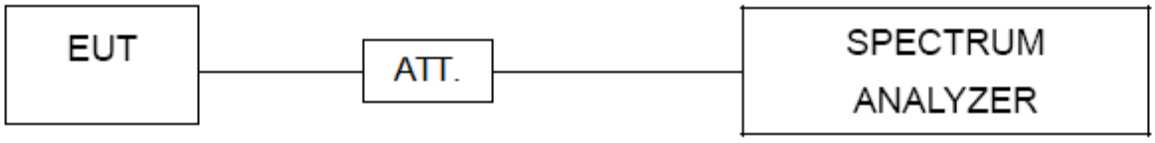
a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	25 MHz (20 MHz) / 60 MHz (40 MHz)
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9. MEASUREMENT INSTRUMENTS LIST

No.	Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Receiver	Rohde&Schwarz	ESCI	1166.5950.03	2022/11/16
2	AMN	Rohde&Schwarz	ENV216	3560.6550.05	2022/11/09
3	AMN	Schwarzbeck	NSLK8127	#829	2022/11/09
4	ECSI RF IN RF Cable	Rohde&Schwarz	RP-X1	\	2022/11/18
5	ECSI RF IN RF Cable	Rohde&Schwarz	Sapre sm	\	2022/11/09
6	EMI Receiver	Rohde&Schwarz	ESR7	102013	2022/11/09
7	Spectrum analyzer	Rohde&Schwarz	FSV30	103741	2022/11/09
8	EMI receiver	Rohde&Schwarz	ESU	100184	2022/07/25
9	Spectrum analyzer	KEYSIGHT	N9010A-44	MY51440158	2022/11/09
10	Loop Antenna*	Schwarzbeck	FMZB1519B	00029	2022/07/20
11	Integral Antenna	Schwarzbeck	VULB 9163	VULB 9163-361	2022/11/09
12	Integral Antenna	Schwarzbeck	BBHA 9120D	BBHA 9120D 1201	2022/11/09
13	Integral Antenna	Schwarzbeck	BBHA 9170	9170#685	2022/11/09
14	Preamplifier	CD Systems Inc	PAP-03036-30	85060000	2022/11/09
15	Preamplifier	Schwarzbeck	BBV9721	9721-019	2022/11/09
16	Preamplifier	emci	EMC012645SE	980417	2022/11/09
17	ECSI RF IN RF Cable	Rohde&Schwarz	AP-X1	\	2022/11/09
18	Spectrum Analyzer	Agilent	N9010A	MY52221119	2022/11/09
19	Power Collection Unit	Tonscend	JS0806-2	188060134	2022/11/09
20	Tonscend Test System	Tonscend	2.6.77.0518	NA	NA
21	10dB Attenuator	Tonscend	10dB	NA	NA
22	Temp&Humidity Recorder	Anymetre	JR900	NA	2022/11/03
23	Temp&Humidity Chamber	ETOMA	NTH1100-30A	16080628	2022/11/03
24	Filter	STI	STI15-9845	N/A	N/A
25	Filter	STI	5.1G	N/A	N/A
26	Filter	STI	STI15-9845	N/A	N/A
27	Testing Software	EZ-EMC	TW-03A2	N/A	N/A

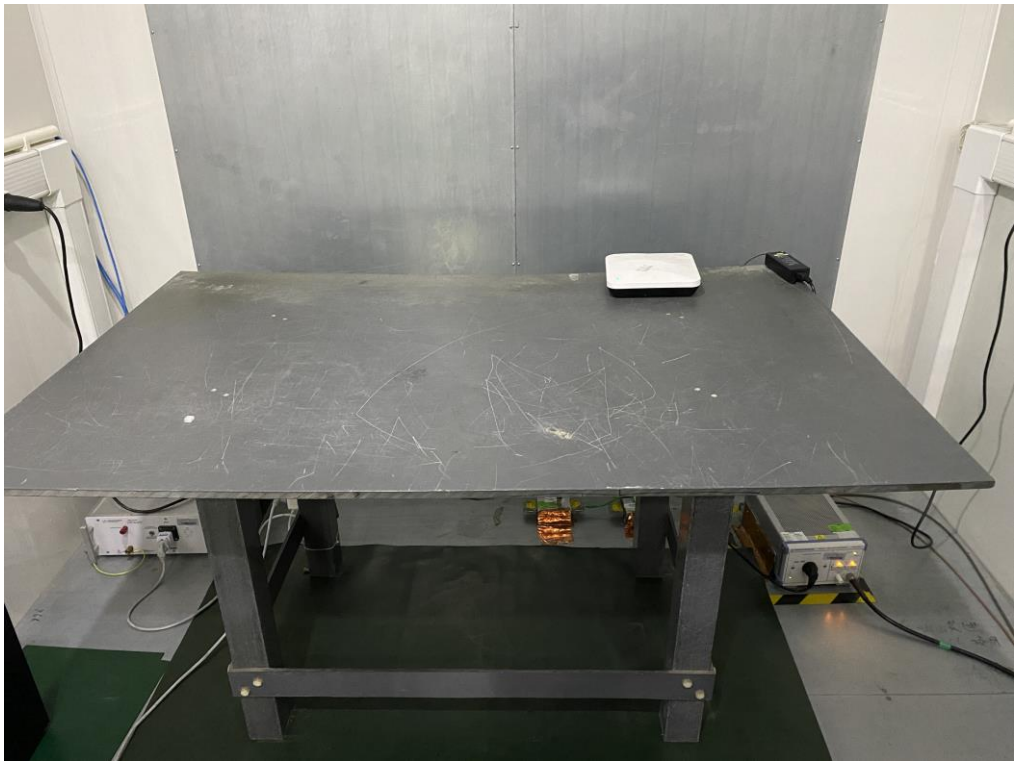
Remark: ”N/A” denotes no model name, serial no. or calibration specified.

“*” calibration period of equipment list is three year.

Except * item, all calibration period of equipment list is one year.

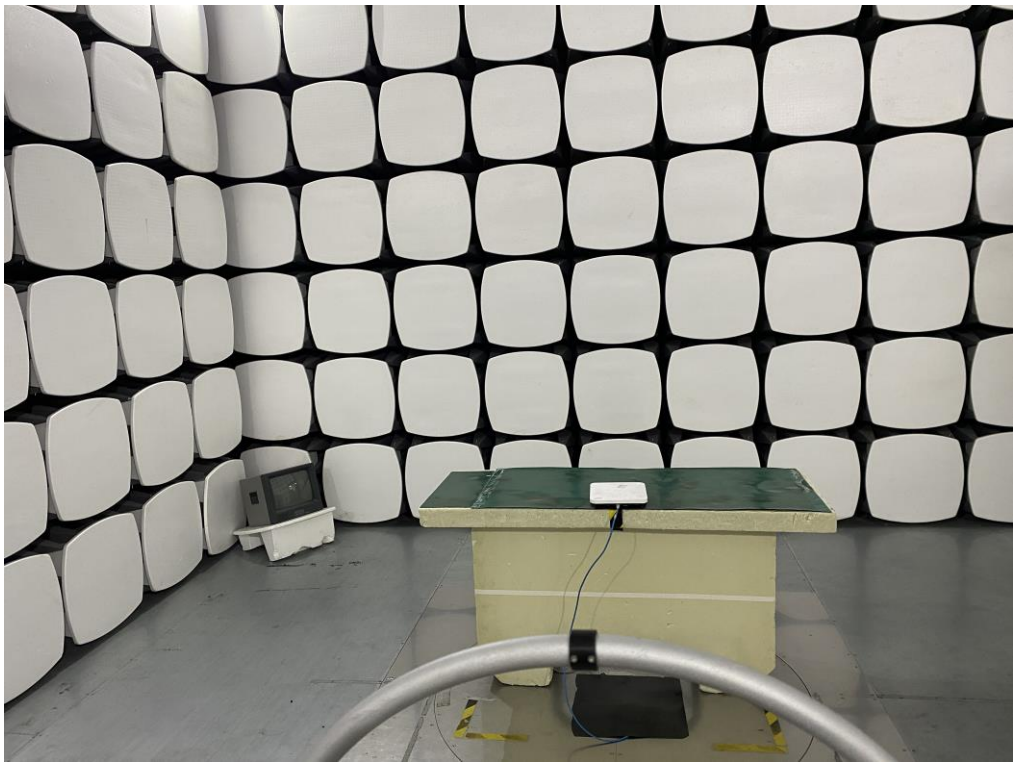
10. EUT TEST PHOTO

AC Power Line Conducted Emissions Test Photos



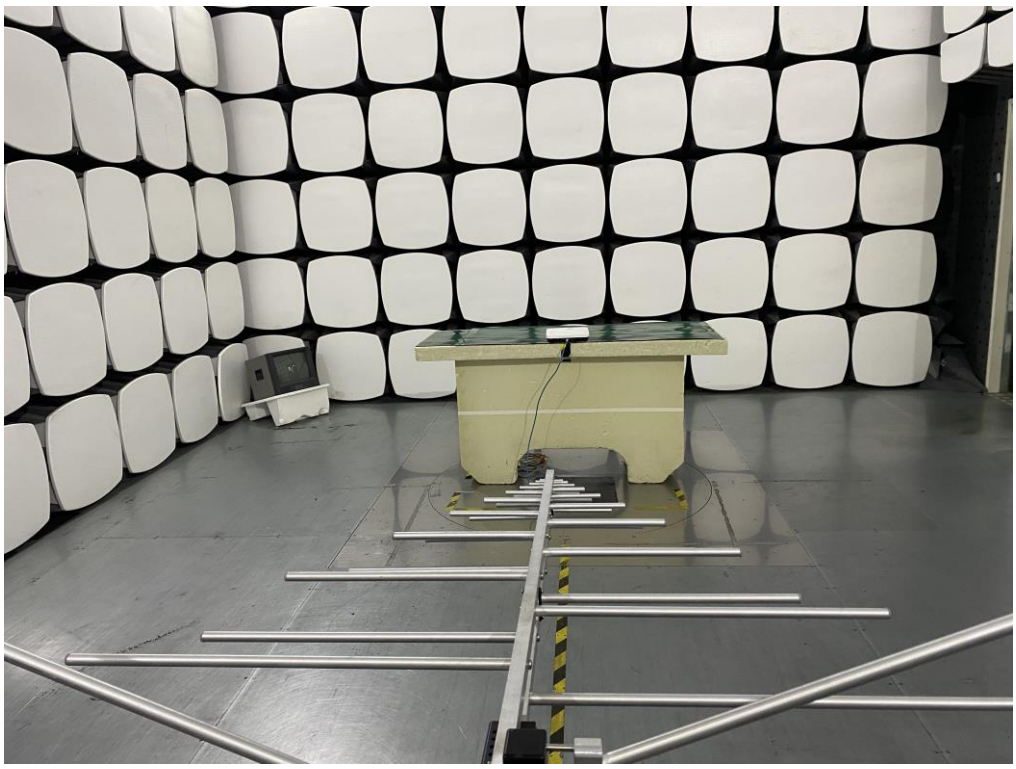
Radiated Emissions Test Photos

9 kHz to 30 MHz



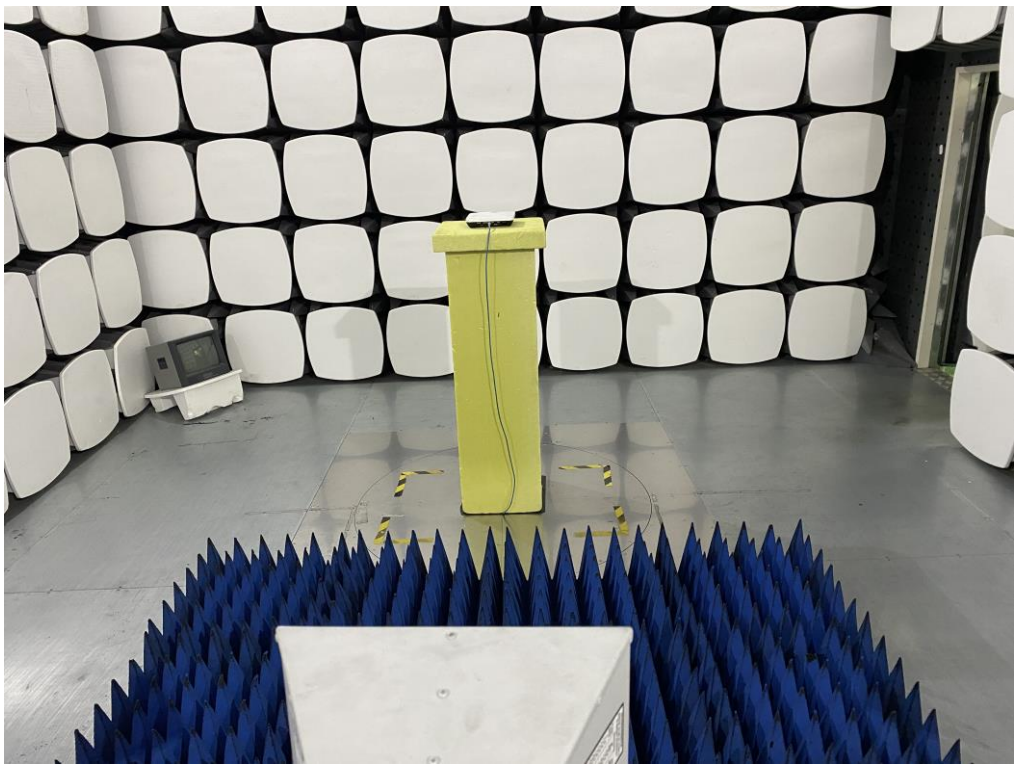
Radiated Emissions Test Photos

30 MHz to 1000 MHz



Radiated Emissions Test Photos

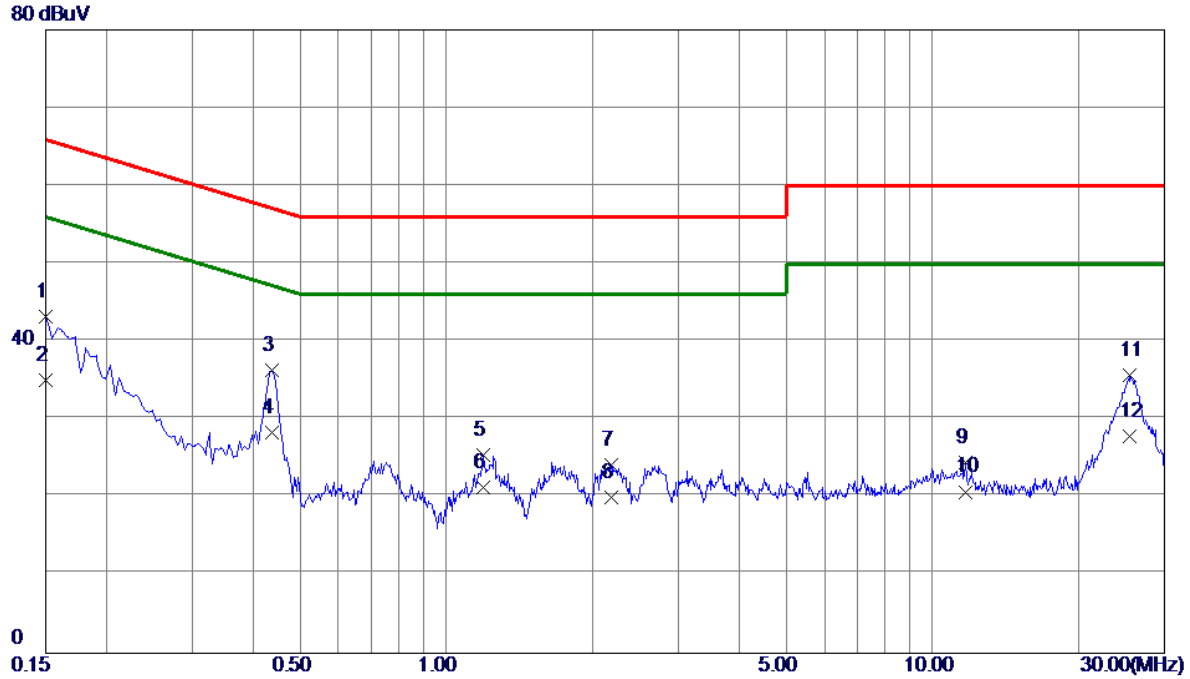
Above 1 GHz



Conducted Test Photos

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

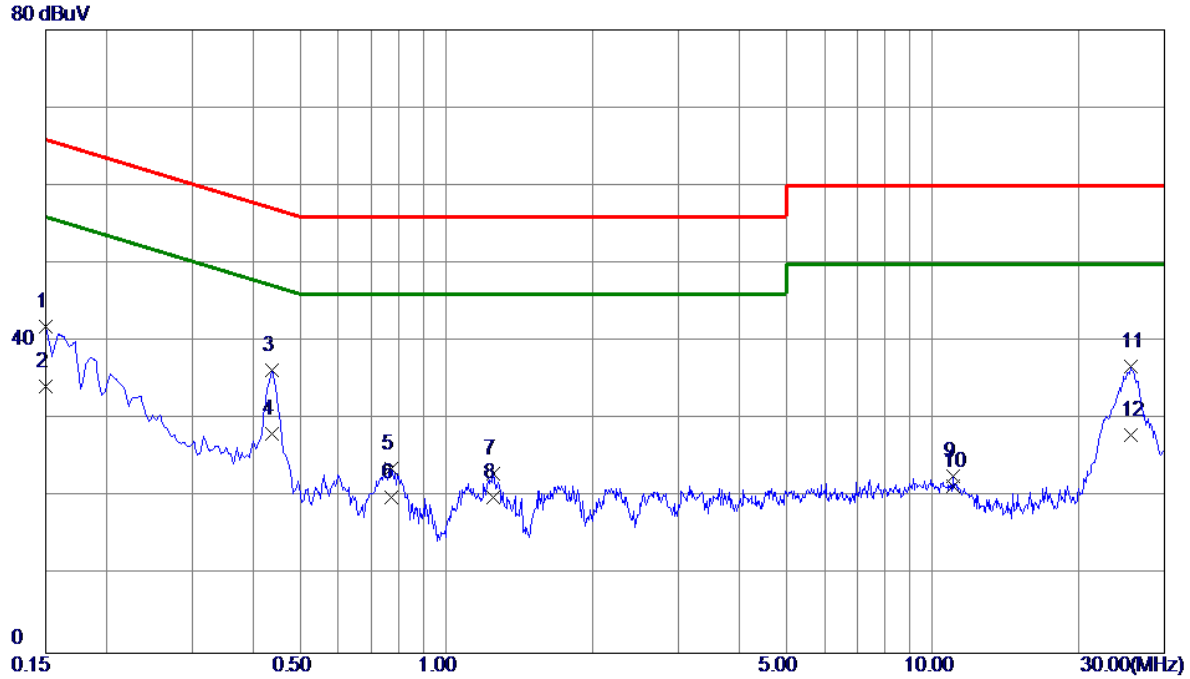
Test Mode	TX B Mode Channel 06	Phase	Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	33.58	9.65	43.23	66.00	-22.77	QP	
2	0.1500	25.41	9.65	35.06	56.00	-20.94	AVG	
3	0.4380	26.49	9.76	36.25	57.10	-20.85	QP	
4 *	0.4380	18.60	9.76	28.36	47.10	-18.74	AVG	
5	1.1895	15.63	9.84	25.47	56.00	-30.53	QP	
6	1.1895	11.40	9.84	21.24	46.00	-24.76	AVG	
7	2.1885	14.31	9.90	24.21	56.00	-31.79	QP	
8	2.1885	10.10	9.90	20.00	46.00	-26.00	AVG	
9	11.6925	13.93	10.52	24.45	60.00	-35.55	QP	
10	11.6925	10.20	10.52	20.72	50.00	-29.28	AVG	
11	25.4805	24.78	10.96	35.74	60.00	-24.26	QP	
12	25.4805	16.91	10.96	27.87	50.00	-22.13	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode Channel 06	Phase	Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	32.22	9.70	41.92	66.00	-24.08	QP	
2	0.1500	24.51	9.70	34.21	56.00	-21.79	AVG	
3	0.4380	26.55	9.79	36.34	57.10	-20.76	QP	
4 *	0.4380	18.40	9.79	28.19	47.10	-18.91	AVG	
5	0.7710	13.85	9.83	23.68	56.00	-32.32	QP	
6	0.7710	10.20	9.83	20.03	46.00	-25.97	AVG	
7	1.2525	13.18	9.87	23.05	56.00	-32.95	QP	
8	1.2525	10.11	9.87	19.98	46.00	-26.02	AVG	
9	11.0175	12.21	10.50	22.71	60.00	-37.29	QP	
10	11.0175	10.90	10.50	21.40	50.00	-28.60	AVG	
11	25.5750	25.72	11.02	36.74	60.00	-23.26	QP	
12	25.5750	16.91	11.02	27.93	50.00	-22.07	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

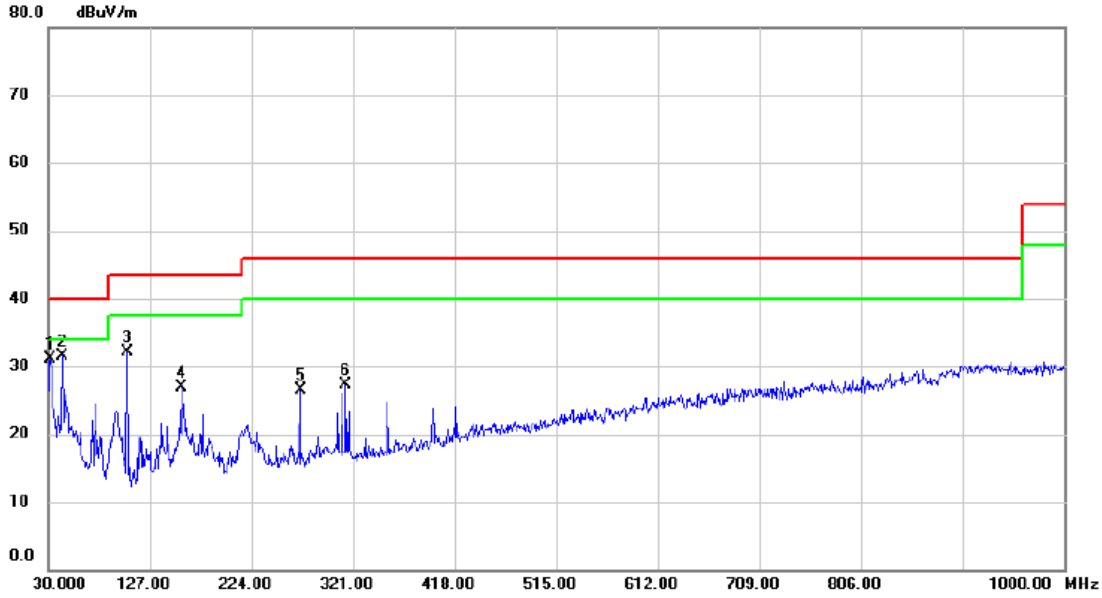
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

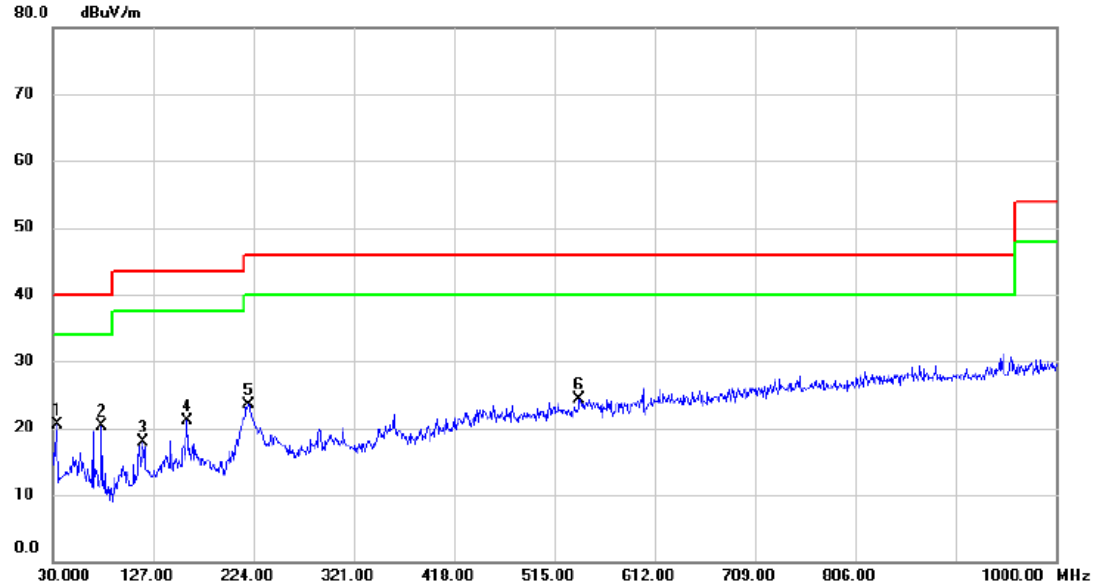
Test Mode	TX B Mode Channel 06	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		31.940	46.91	-15.82	31.09	40.00	-8.91	peak	
2	*	43.580	46.17	-14.57	31.60	40.00	-8.40	peak	
3		105.660	48.39	-16.23	32.16	43.50	-11.34	peak	
4		157.070	39.77	-12.90	26.87	43.50	-16.63	peak	
5		270.560	38.91	-12.48	26.43	46.00	-19.57	peak	
6		314.210	38.54	-11.18	27.36	46.00	-18.64	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode Channel 06	Polarization	Horizontal

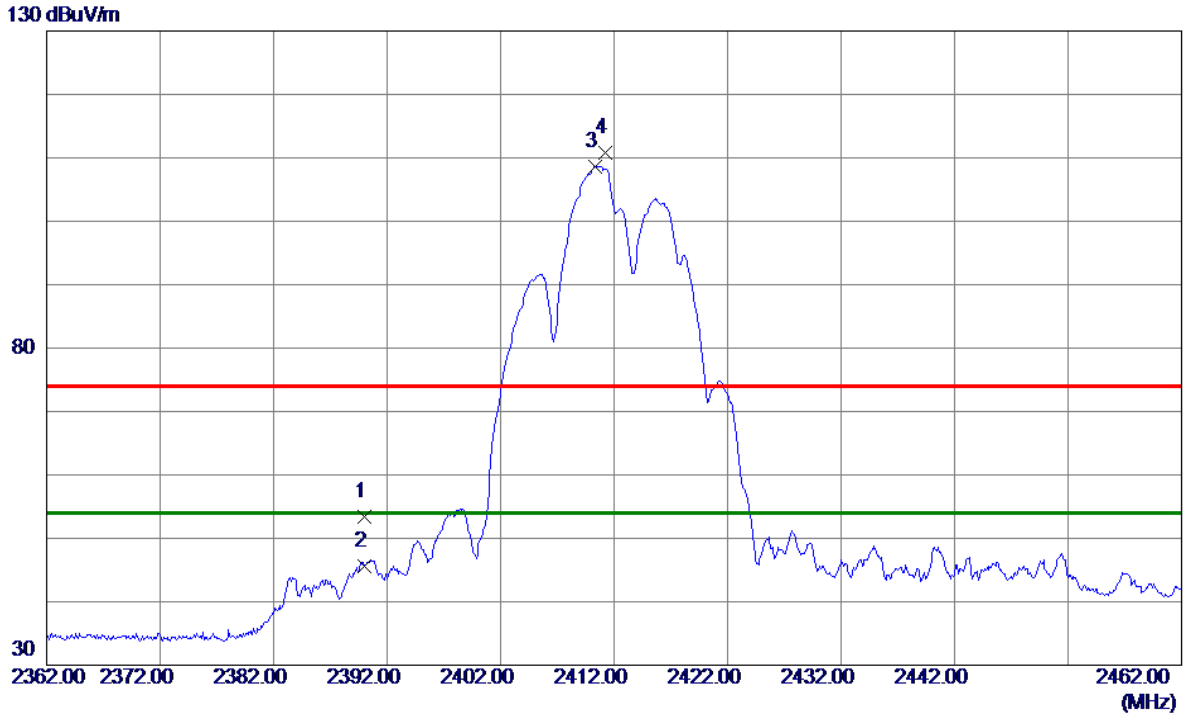


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	33.880	36.09	-15.60	20.49	40.00	-19.51	peak	
2		77.530	38.33	-18.05	20.28	40.00	-19.72	peak	
3		117.300	32.76	-14.93	17.83	43.50	-25.67	peak	
4		159.980	34.04	-12.90	21.14	43.50	-22.36	peak	
5		219.150	38.96	-15.38	23.58	46.00	-22.42	peak	
6		539.250	30.52	-6.17	24.35	46.00	-21.65	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

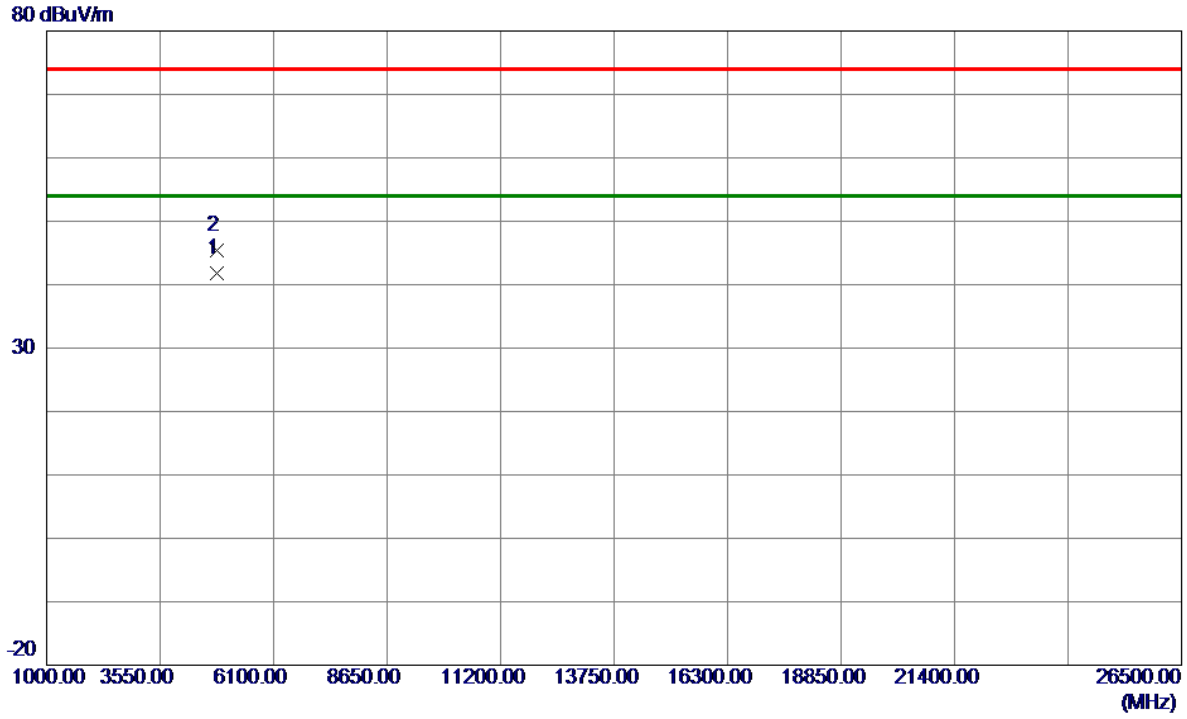
Test Mode	TX B Mode 2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	47.99	5.37	53.36	74.00	-20.64	Peak	
2	2390.0000	40.14	5.37	45.51	54.00	-8.49	AVG	
3 *	2410.3500	103.25	5.42	108.67	54.00	54.67	AVG	No Limit
4	2411.2000	105.38	5.43	110.81	74.00	36.81	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

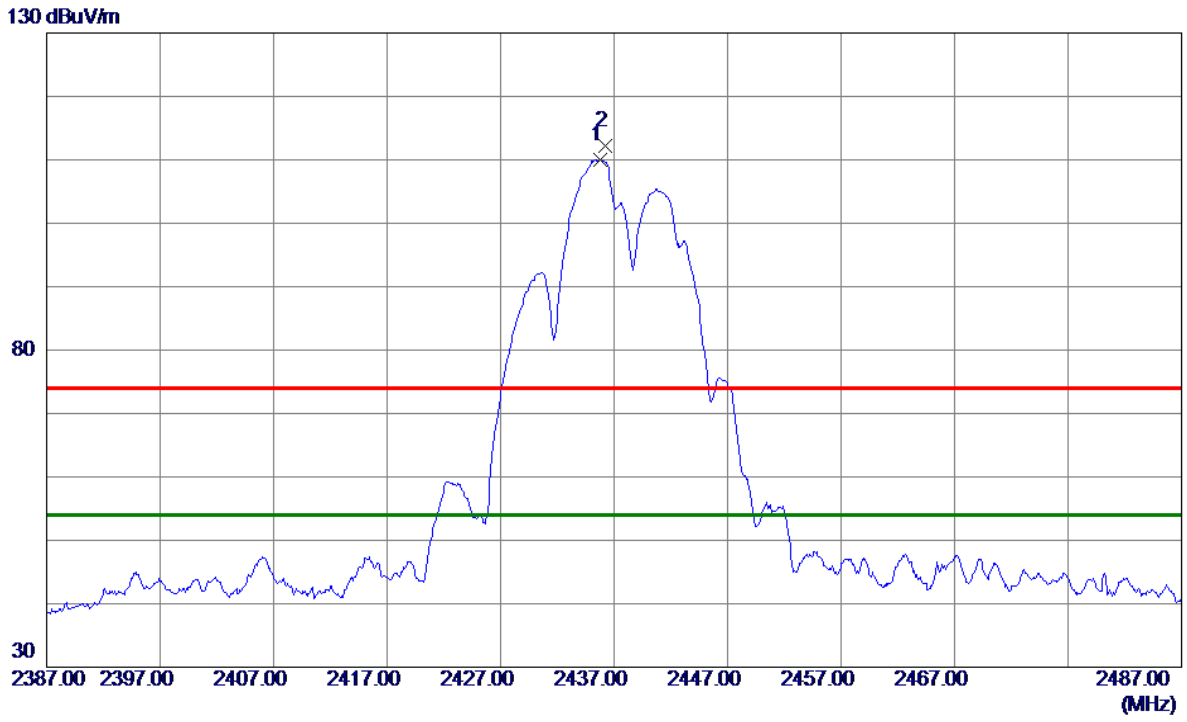
Test Mode	TX B Mode 2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.8900	39.51	2.20	41.71	54.00	-12.29	AVG	
2	4823.9400	43.21	2.20	45.41	74.00	-28.59	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

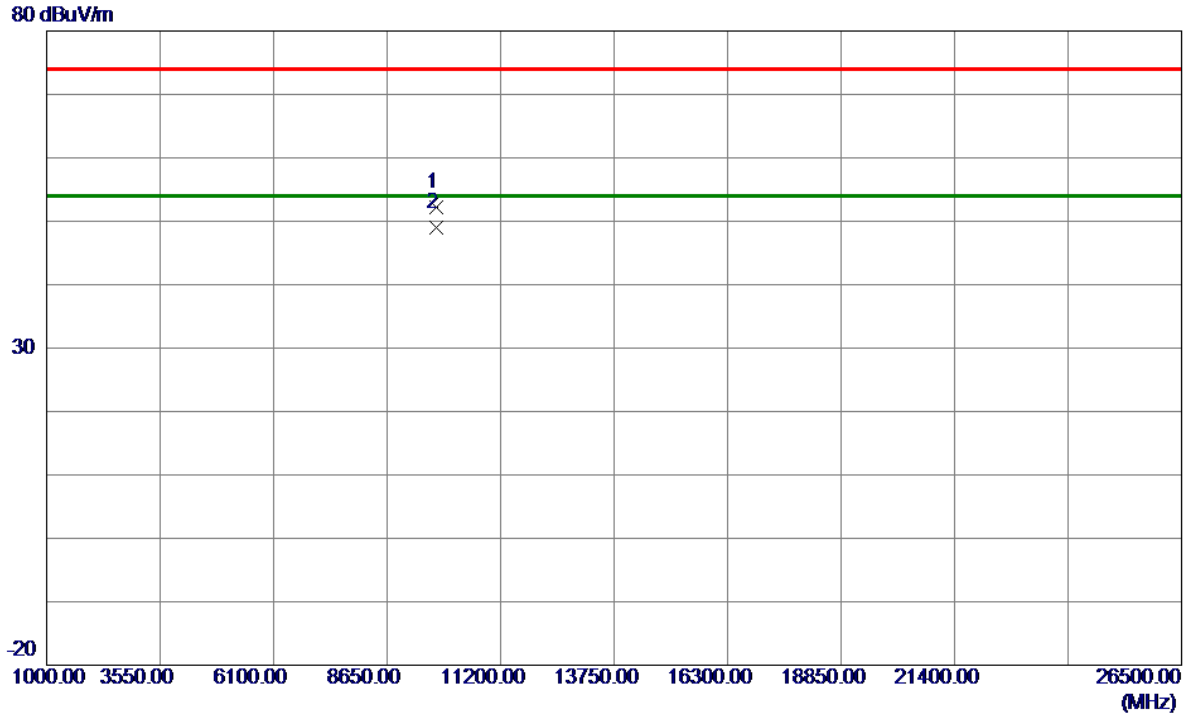
Test Mode	TX B Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2435.8000	104.47	5.48	109.95	54.00	55.95	AVG	No Limit
2	2436.2500	106.73	5.49	112.22	74.00	38.22	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

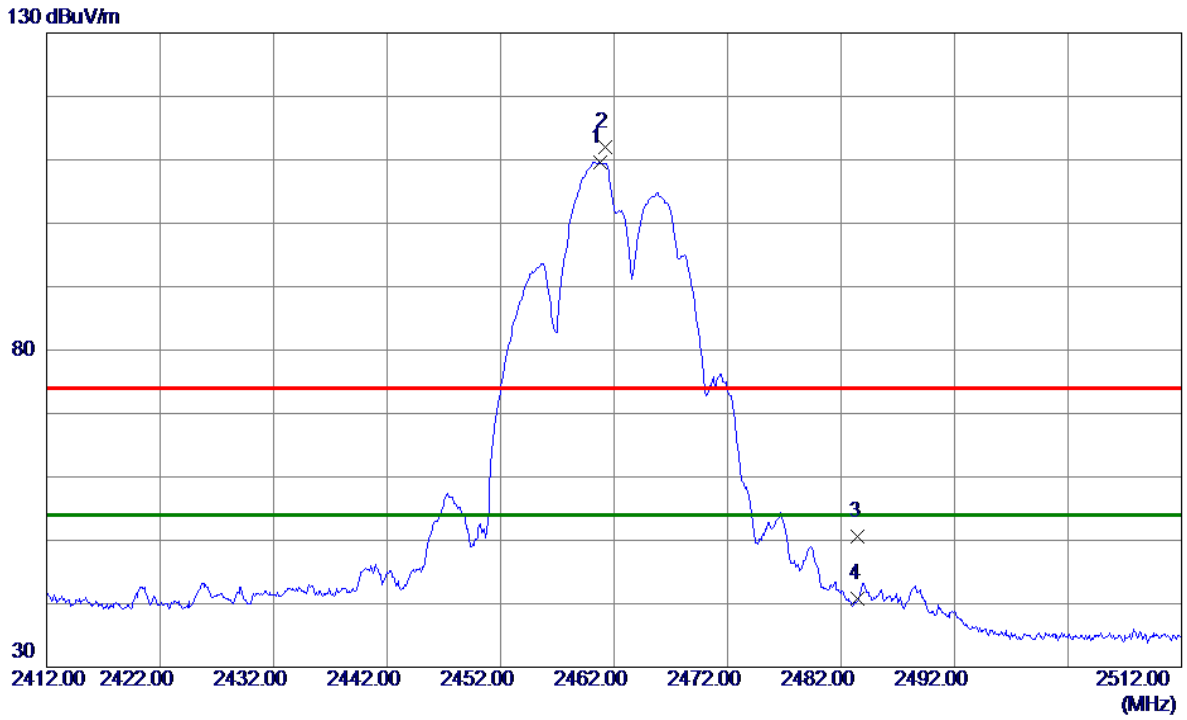
Test Mode	TX B Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9747.8200	44.60	7.59	52.19	74.00	-21.81	Peak	
2 *	9747.9600	41.40	7.59	48.99	54.00	-5.01	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

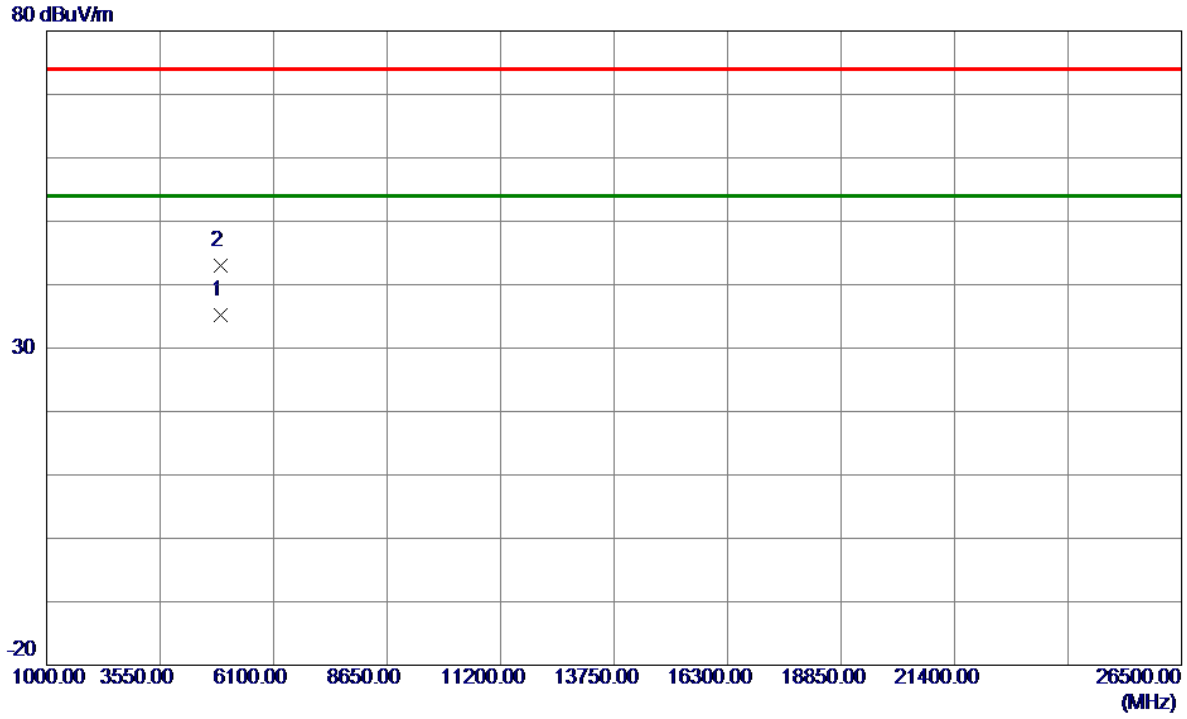
Test Mode	TX B Mode 2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2460.7500	104.13	5.54	109.67	54.00	55.67	AVG	No Limit
2	2461.2000	106.43	5.55	111.98	74.00	37.98	Peak	No Limit
3	2483.5000	44.92	5.60	50.52	74.00	-23.48	Peak	
4	2483.5000	35.27	5.60	40.87	54.00	-13.13	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

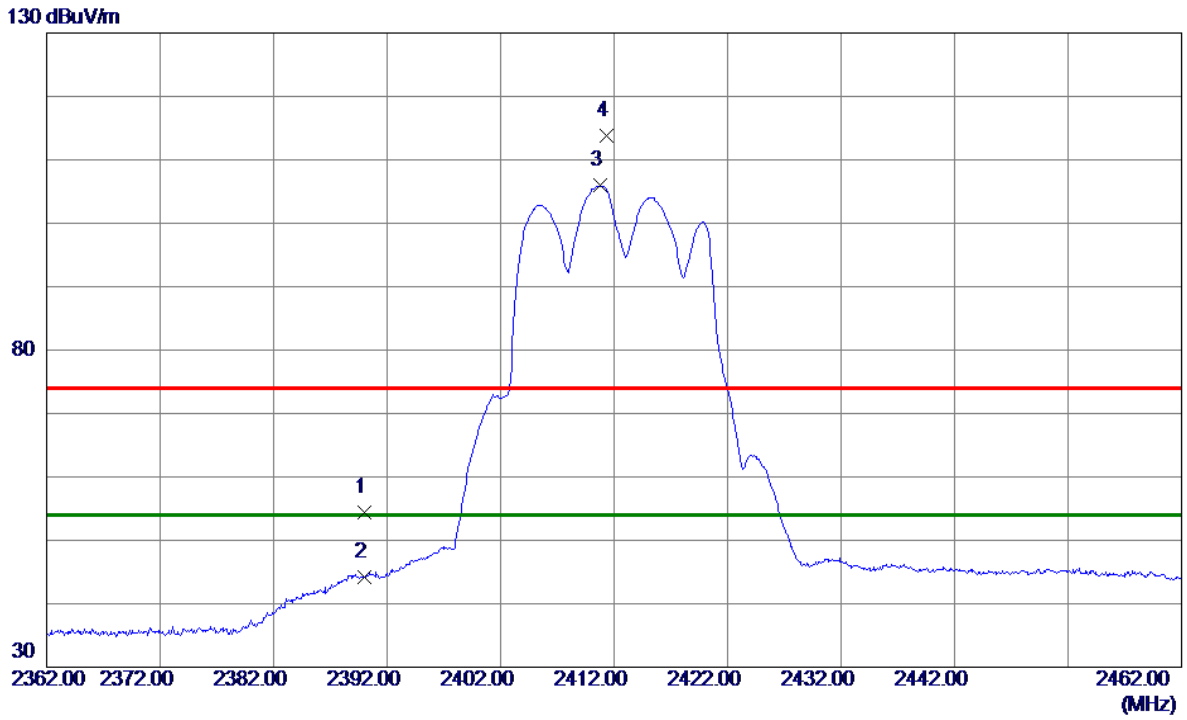
Test Mode	TX B Mode 2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924.0099	32.65	2.50	35.15	54.00	-18.85	AVG	
2	4924.1400	40.46	2.50	42.96	74.00	-31.04	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

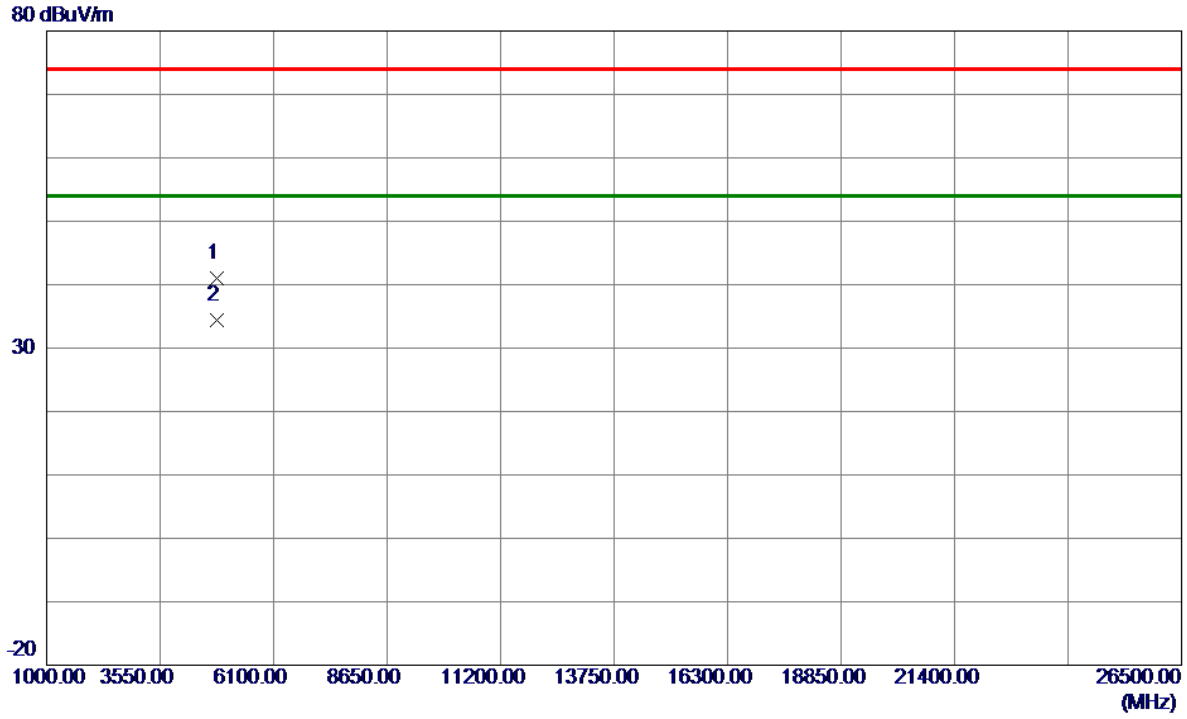
Test Mode	TX G Mode 2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	49.00	5.37	54.37	74.00	-19.63	Peak	
2	2390.0000	38.75	5.37	44.12	54.00	-9.88	AVG	
3 *	2410.7500	100.50	5.42	105.92	54.00	51.92	AVG	No Limit
4	2411.3000	108.44	5.43	113.87	74.00	39.87	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

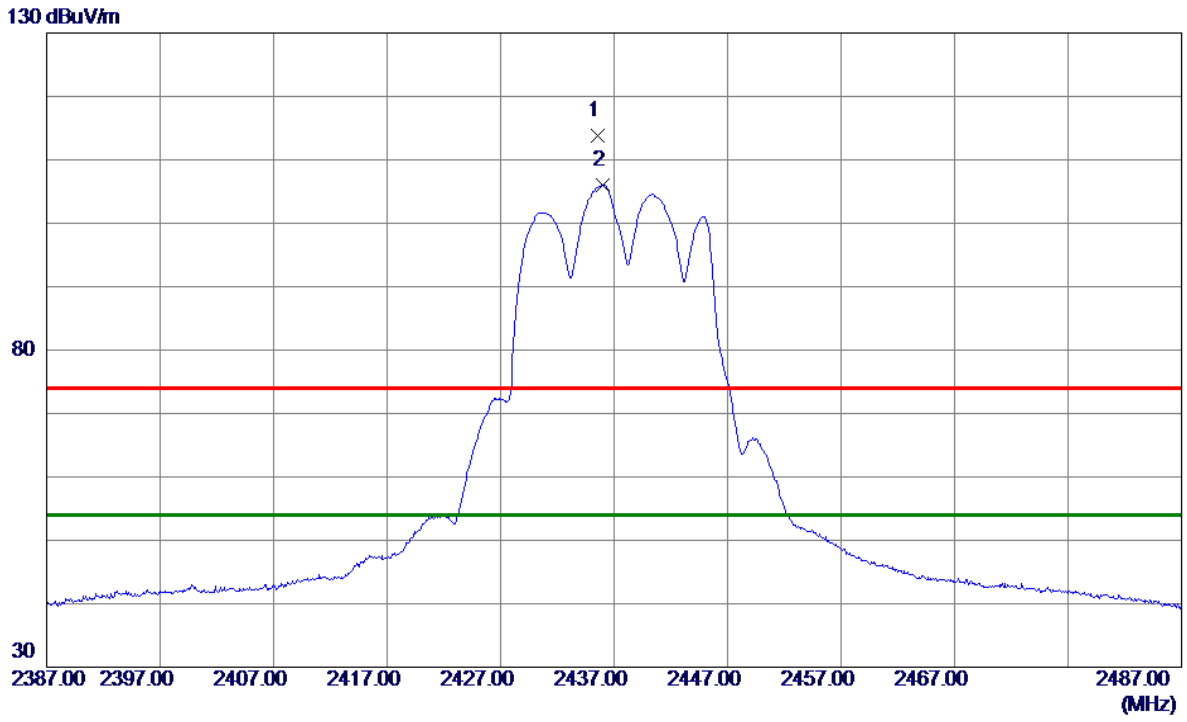
Test Mode	TX G Mode 2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.7900	38.81	2.20	41.01	74.00	-32.99	Peak	
2 *	4823.9300	32.27	2.20	34.47	54.00	-19.53	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

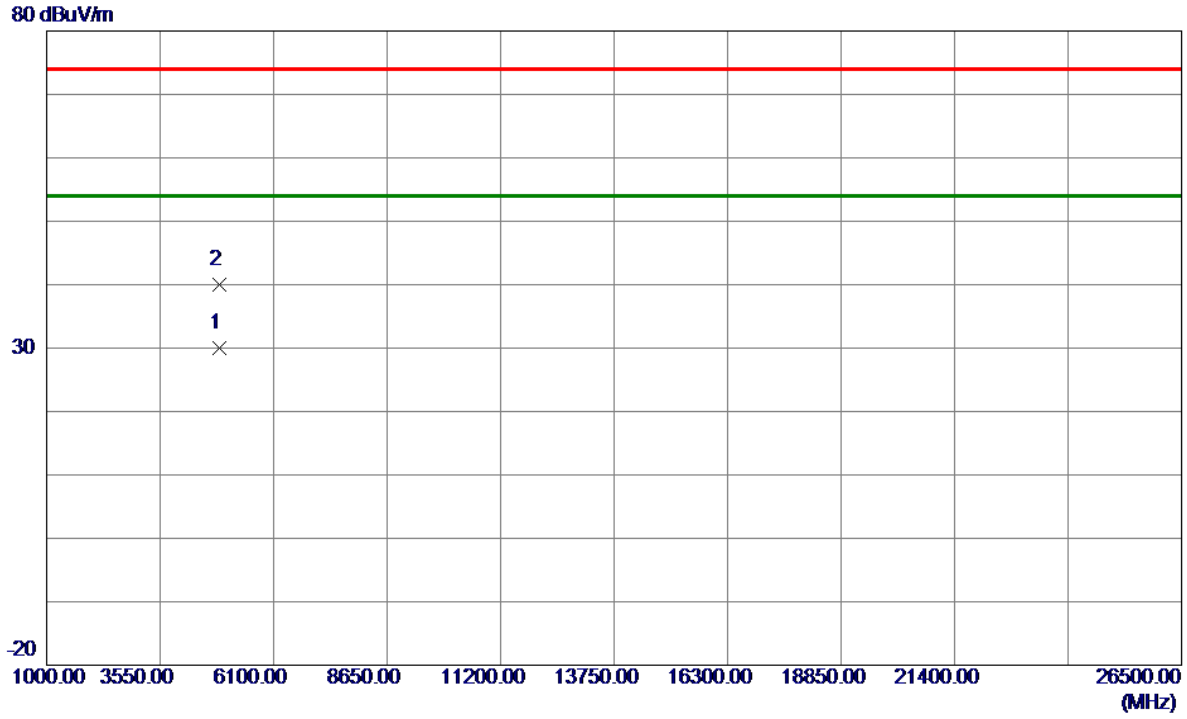
Test Mode	TX G Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2435.6000	108.33	5.48	113.81	74.00	39.81	Peak	No Limit
2 *	2436.0500	100.51	5.49	106.00	54.00	52.00	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

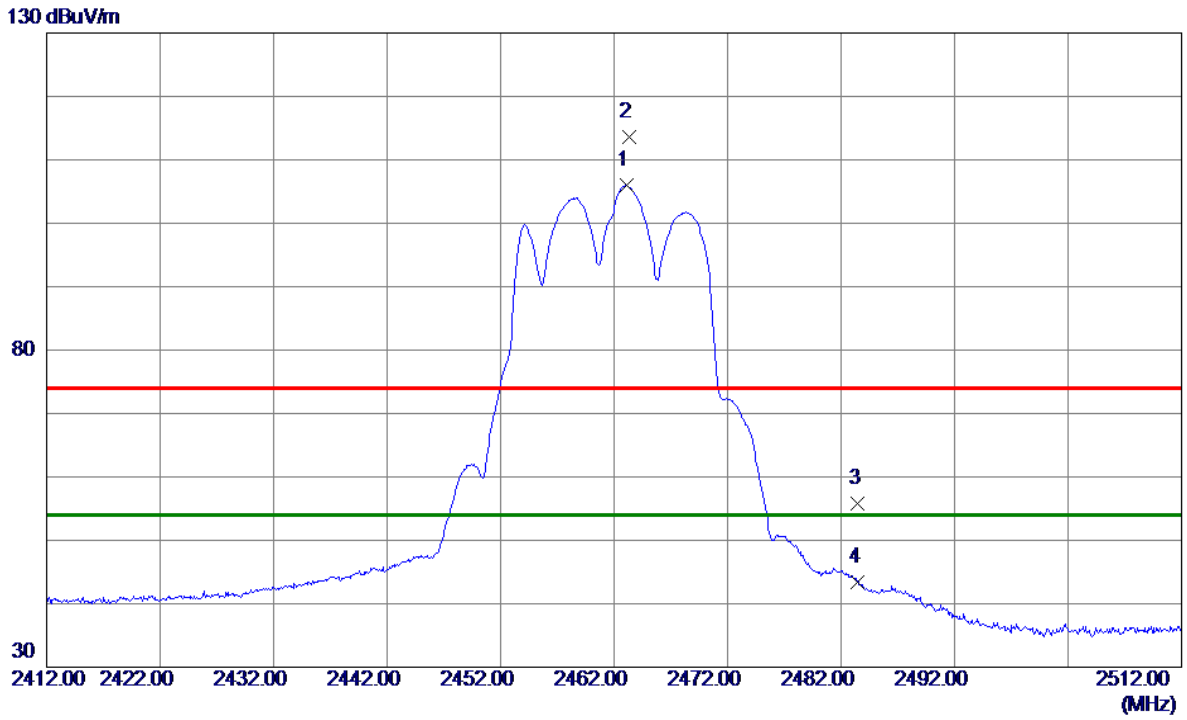
Test Mode	TX G Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4876.8500	27.70	2.36	30.06	54.00	-23.94	AVG	
2	4879.0000	37.60	2.36	39.96	74.00	-34.04	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

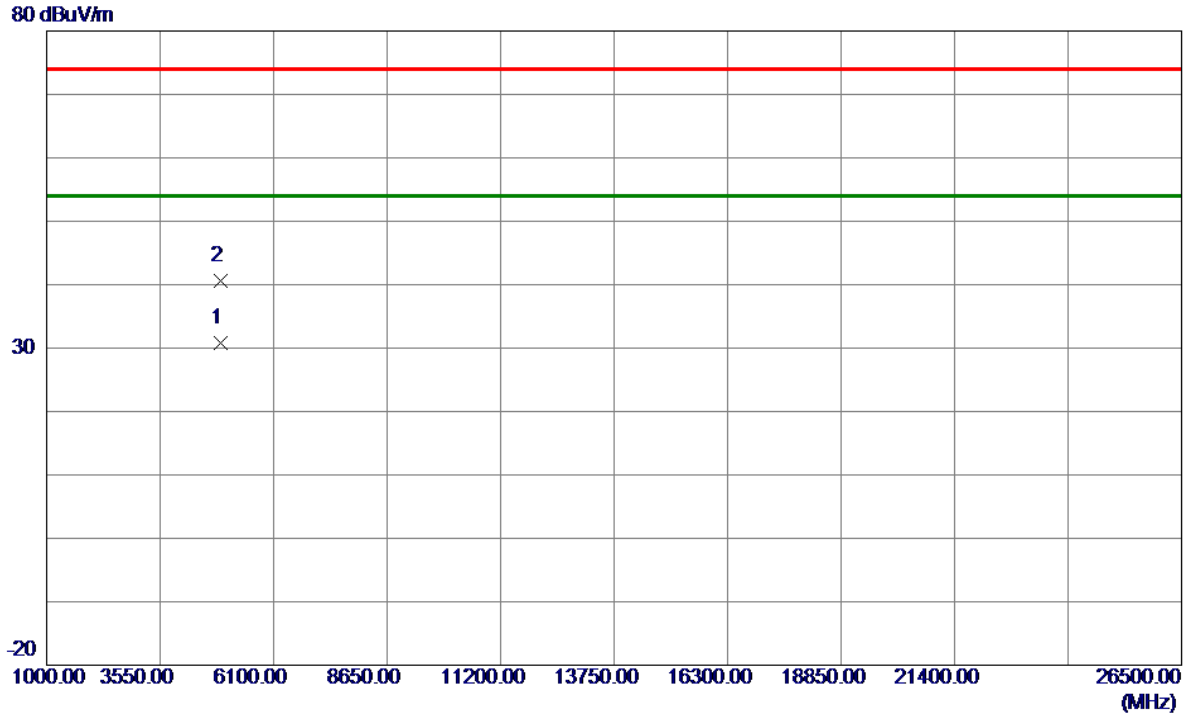
Test Mode	TX G Mode 2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2463.1500	100.37	5.55	105.92	54.00	51.92	AVG	No Limit
2	2463.3000	107.97	5.55	113.52	74.00	39.52	Peak	No Limit
3	2483.5000	50.16	5.60	55.76	74.00	-18.24	Peak	
4	2483.5000	37.86	5.60	43.46	54.00	-10.54	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

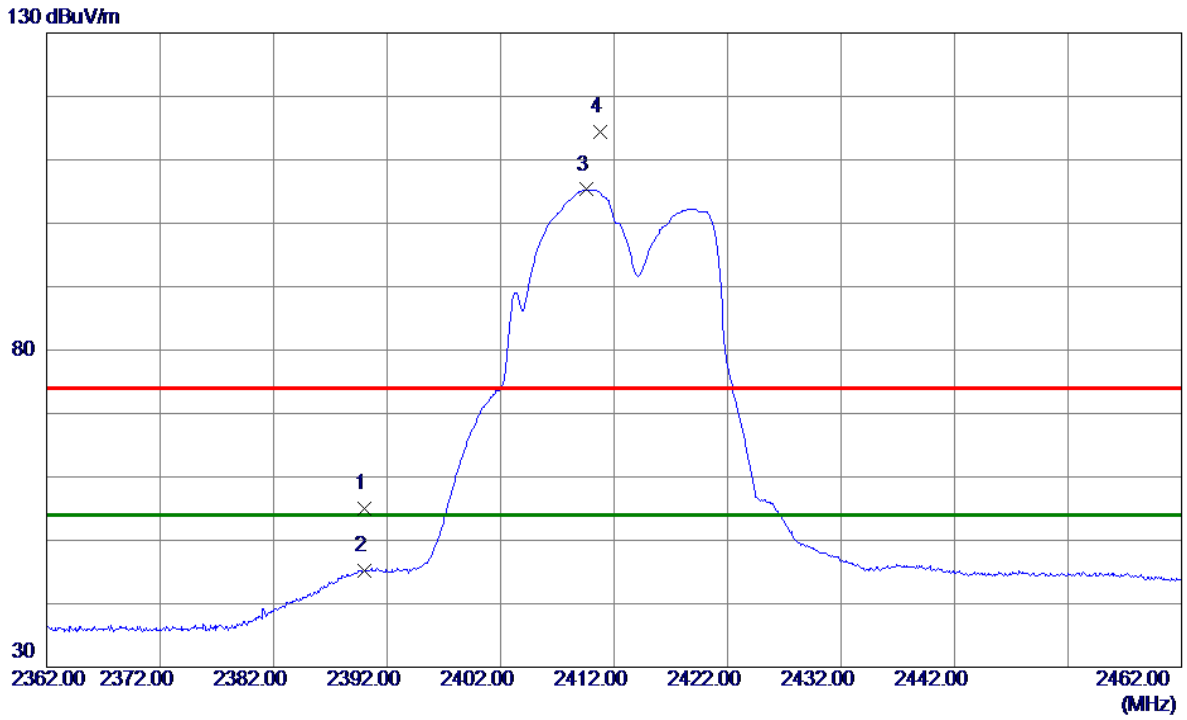
Test Mode	TX G Mode 2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923.8900	28.37	2.50	30.87	54.00	-23.13	AVG	
2	4924.1600	38.06	2.50	40.56	74.00	-33.44	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

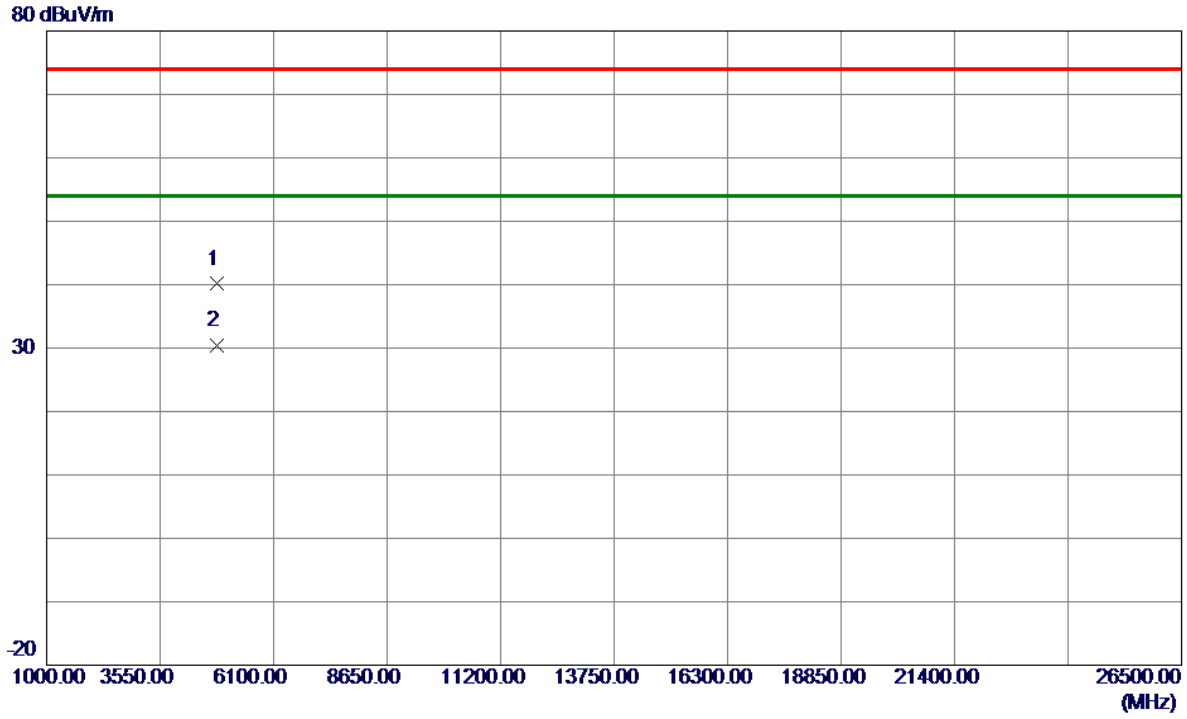
Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	49.67	5.37	55.04	74.00	-18.96	Peak	
2	2390.0000	39.76	5.37	45.13	54.00	-8.87	AVG	
3 *	2409.6000	99.88	5.42	105.30	54.00	51.30	AVG	No Limit
4	2410.7500	109.06	5.42	114.48	74.00	40.48	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

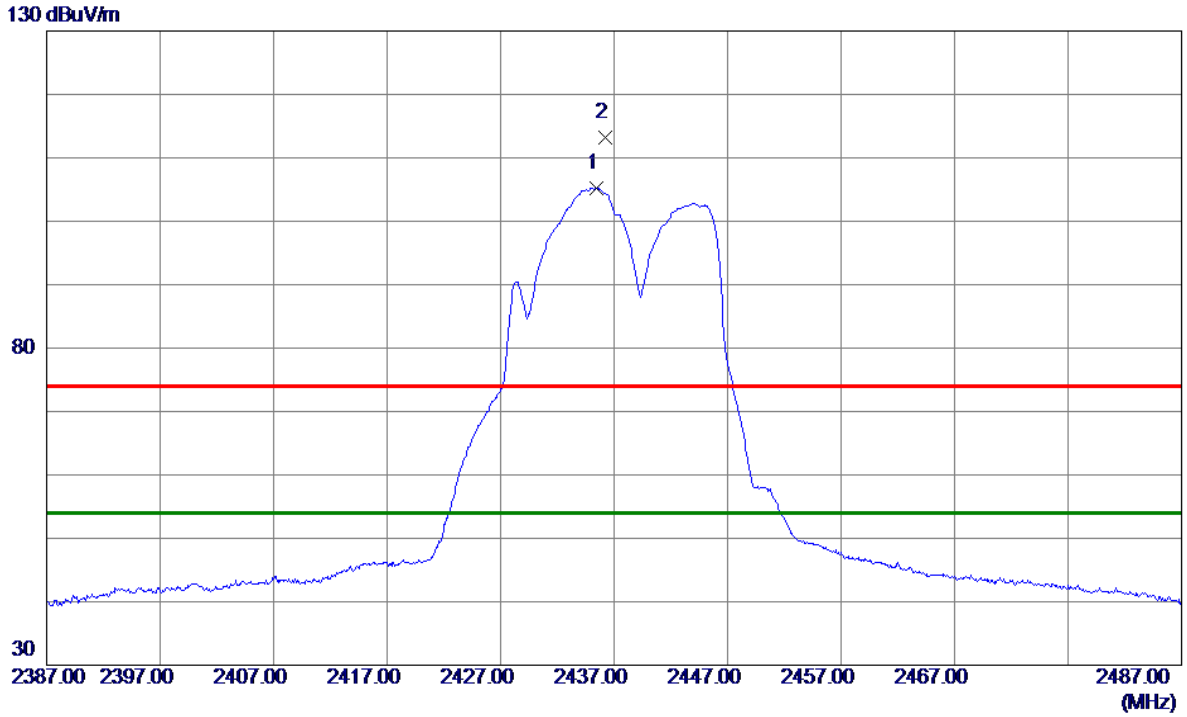
Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4817.5600	37.92	2.18	40.10	74.00	-33.90	Peak	
2 *	4824.2900	28.23	2.20	30.43	54.00	-23.57	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

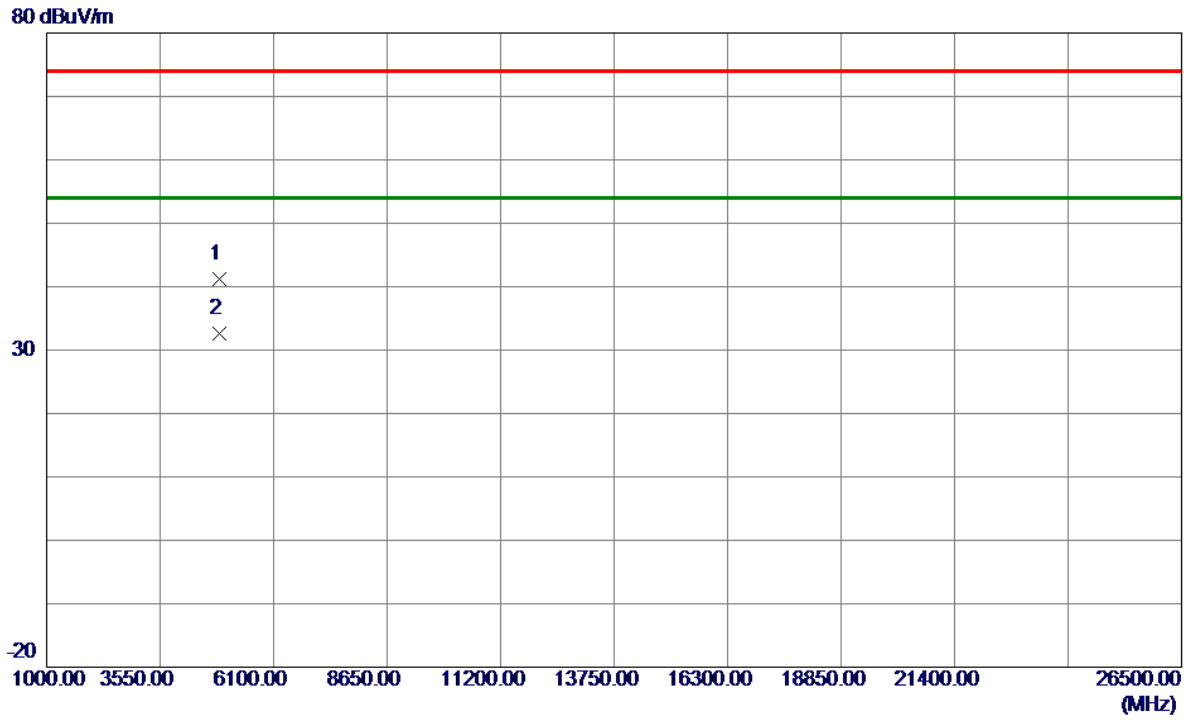
Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2435.4000	99.78	5.48	105.26	54.00	51.26	AVG	No Limit
2	2436.2000	107.78	5.49	113.27	74.00	39.27	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

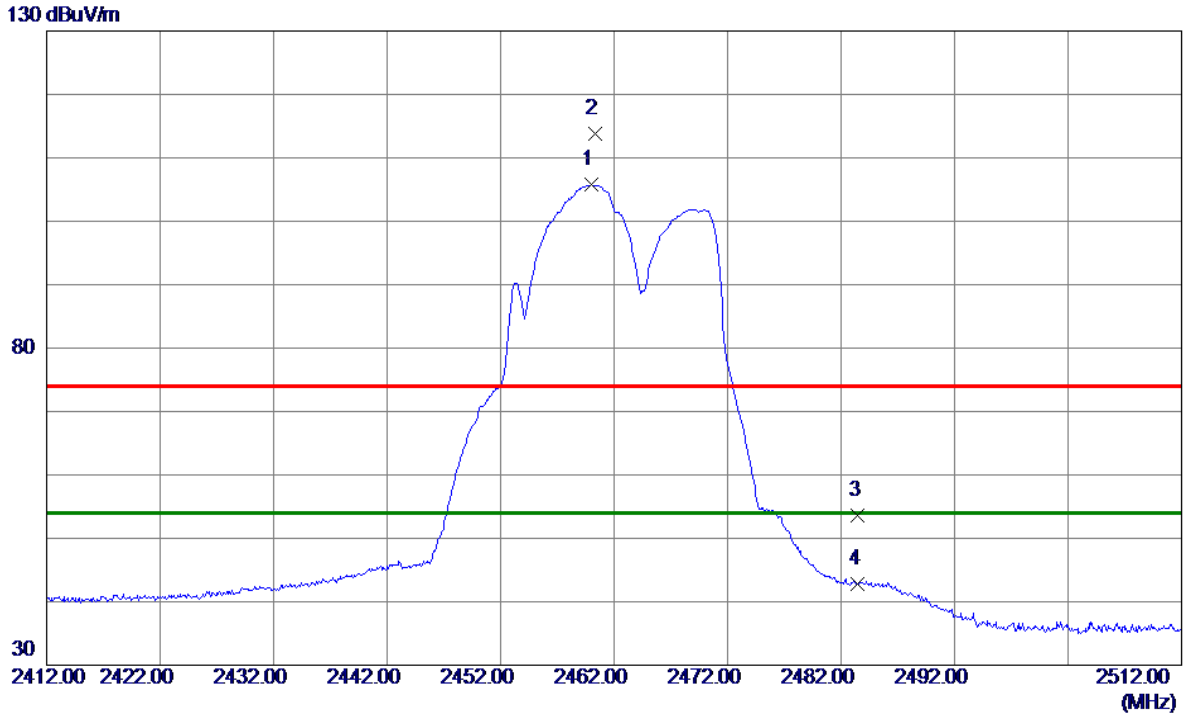
Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4869.7300	38.84	2.34	41.18	74.00	-32.82	Peak	
2 *	4870.3400	30.27	2.34	32.61	54.00	-21.39	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

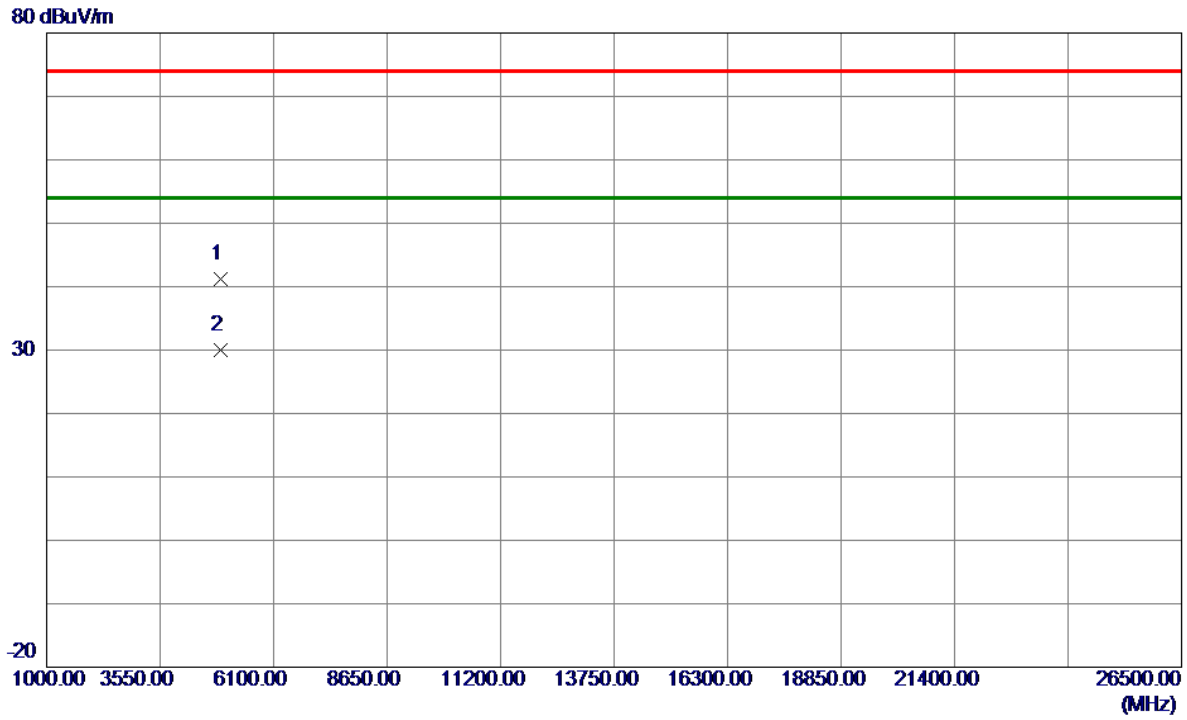
Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2460.0500	100.19	5.54	105.73	54.00	51.73	AVG	No Limit
2	2460.3000	108.30	5.54	113.84	74.00	39.84	Peak	No Limit
3	2483.5000	47.98	5.60	53.58	74.00	-20.42	Peak	
4	2483.5000	37.18	5.60	42.78	54.00	-11.22	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

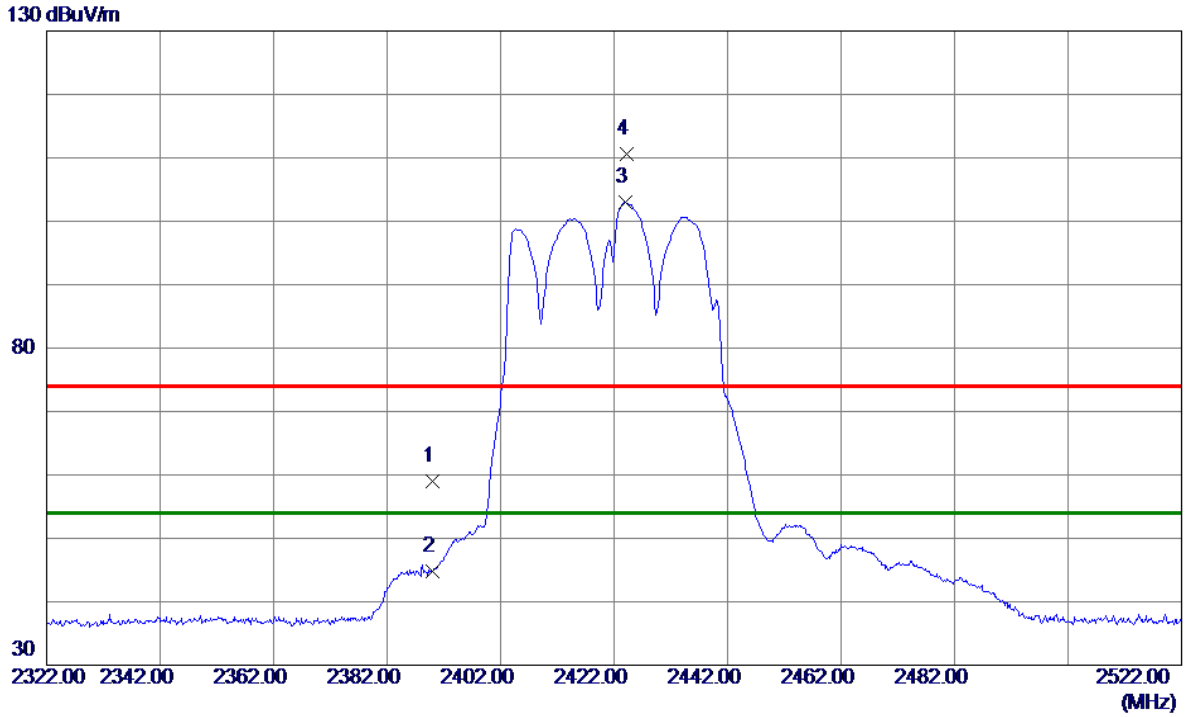
Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4917.8800	38.81	2.48	41.29	74.00	-32.71	Peak	
2 *	4921.4300	27.43	2.49	29.92	54.00	-24.08	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

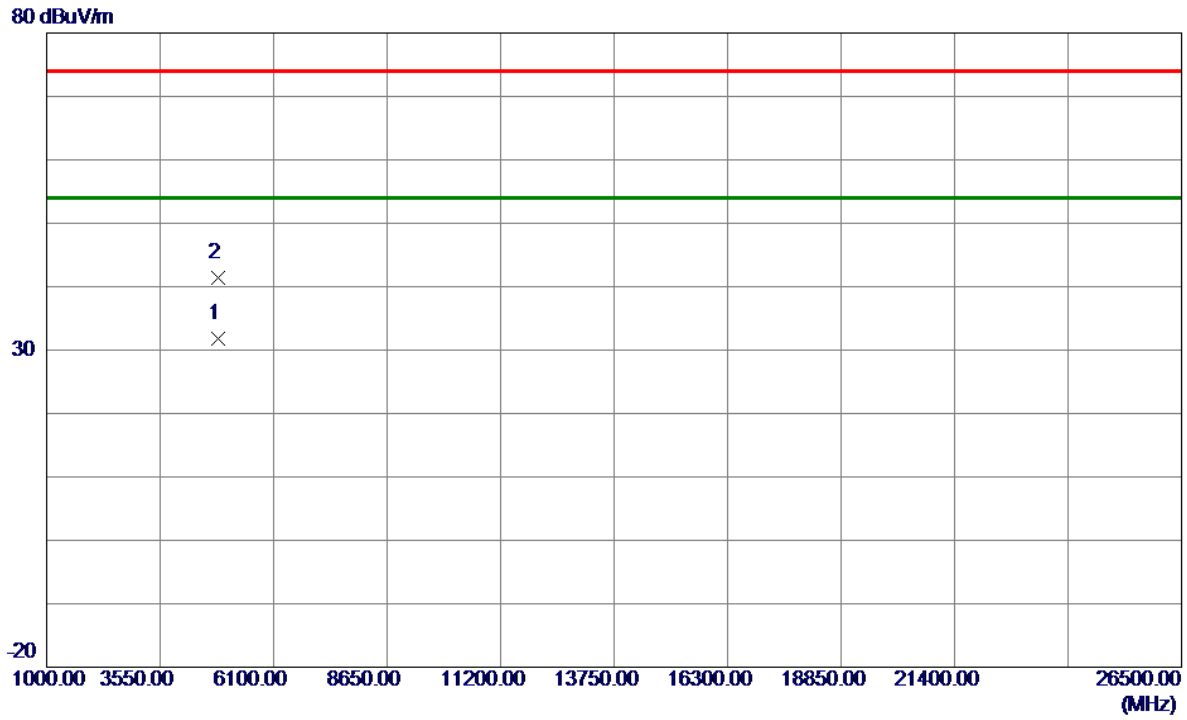
Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	53.62	5.37	58.99	74.00	-15.01	Peak	
2	2390.0000	39.34	5.37	44.71	54.00	-9.29	AVG	
3 *	2423.9000	97.59	5.46	103.05	54.00	49.05	AVG	No Limit
4	2424.3000	105.11	5.46	110.57	74.00	36.57	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

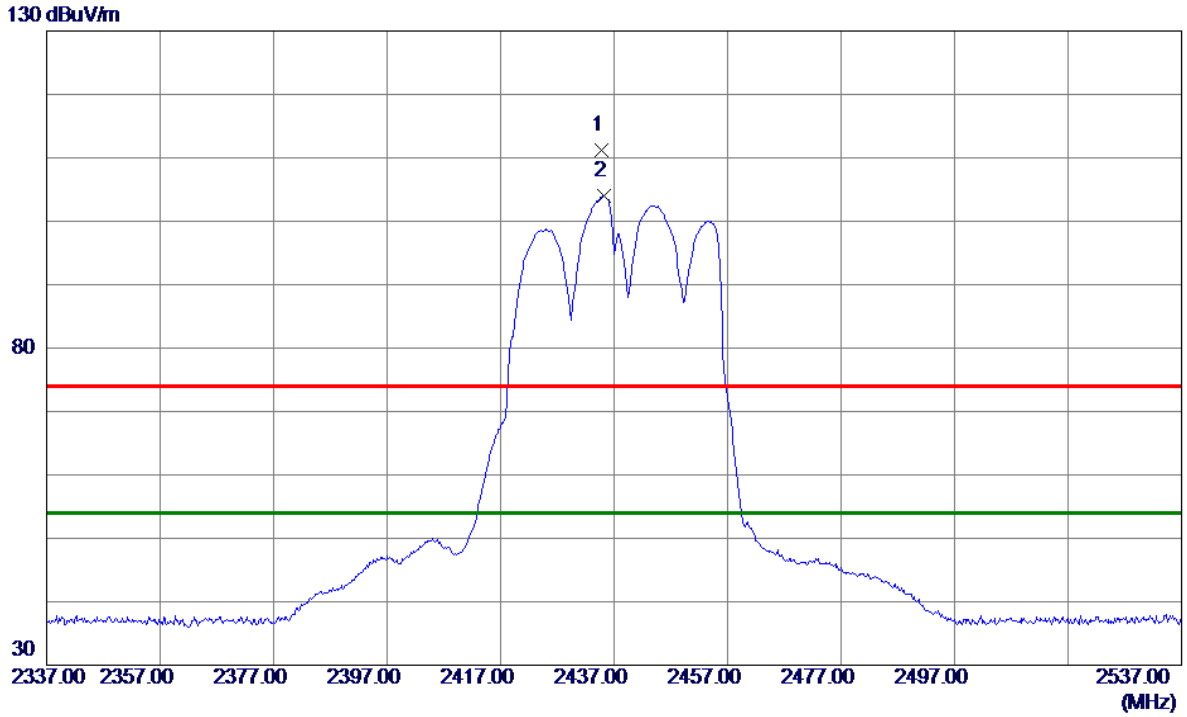
Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4840.0900	29.50	2.25	31.75	54.00	-22.25	AVG	
2	4852.2599	39.08	2.28	41.36	74.00	-32.64	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

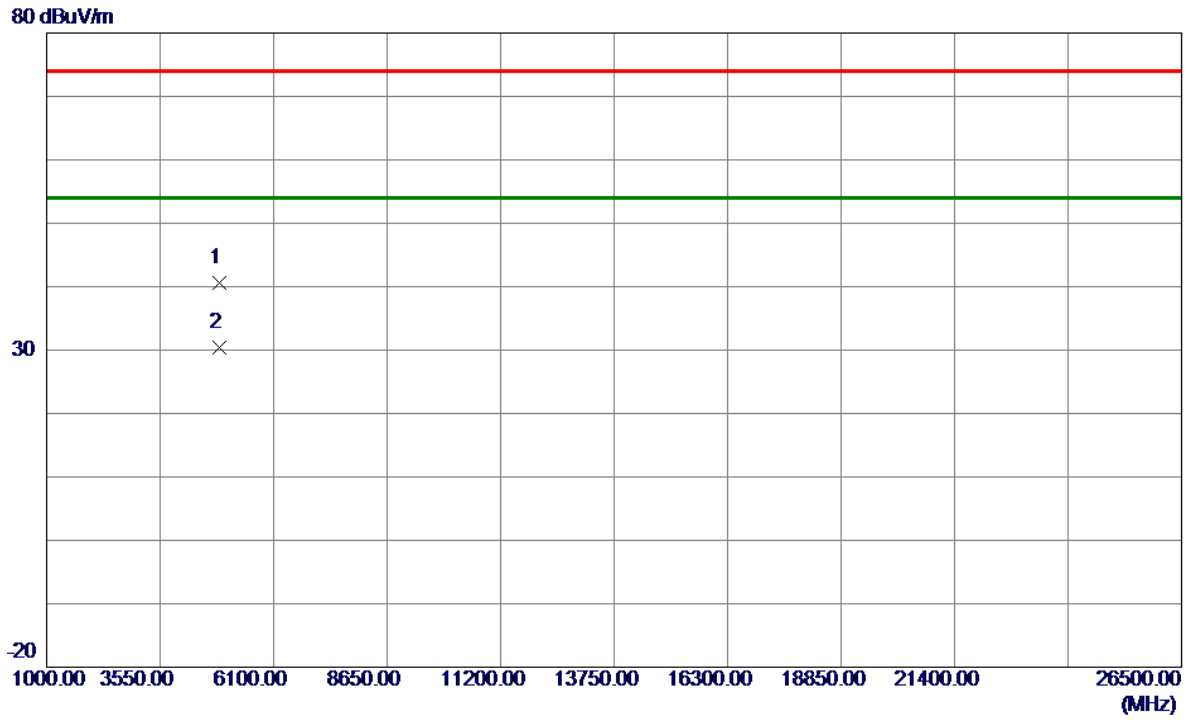
Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2434.7000	105.66	5.48	111.14	74.00	37.14	Peak	No Limit
2 *	2435.3000	98.51	5.48	103.99	54.00	49.99	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

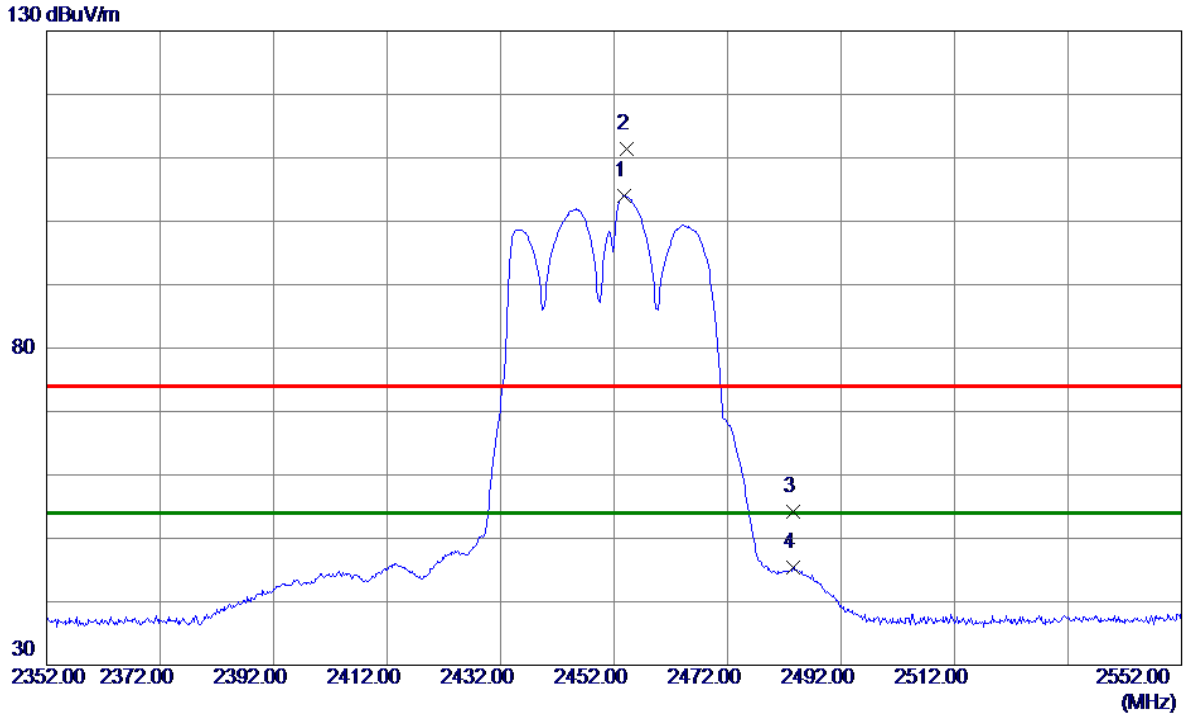
Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4869.0800	38.33	2.33	40.66	74.00	-33.34	Peak	
2 *	4873.9400	28.12	2.35	30.47	54.00	-23.53	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

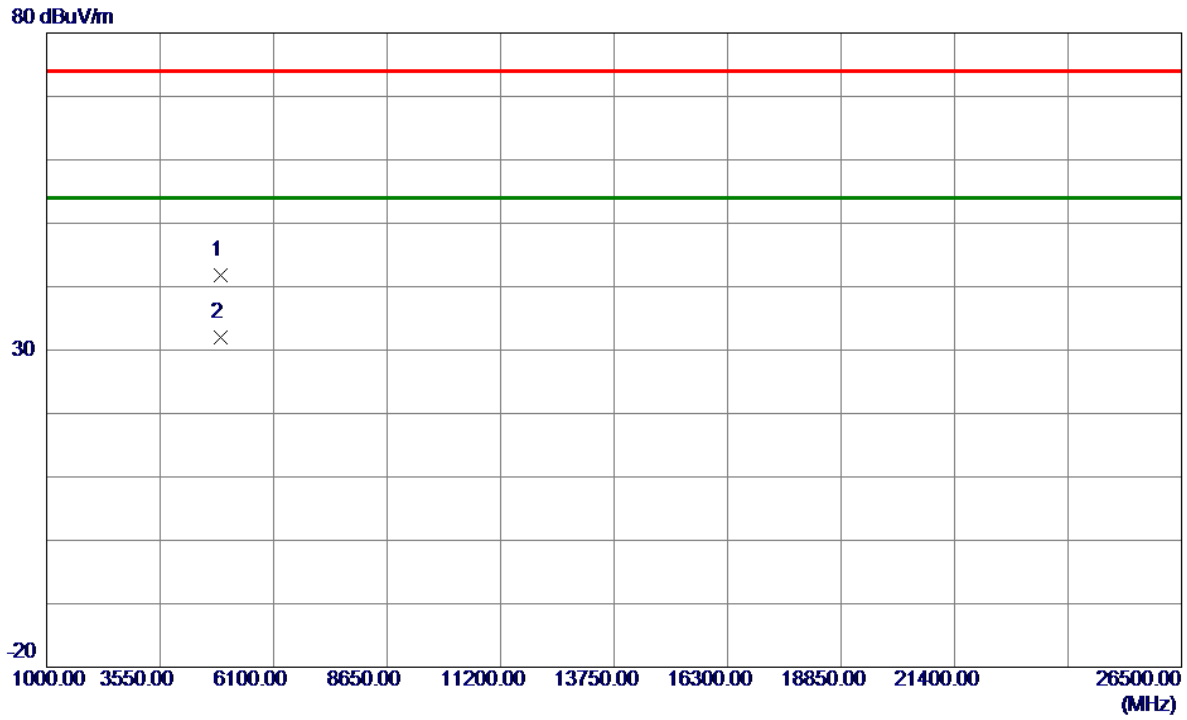
Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2453.8000	98.49	5.53	104.02	54.00	50.02	AVG	No Limit
2	2454.2000	105.90	5.53	111.43	74.00	37.43	Peak	No Limit
3	2483.5000	48.56	5.60	54.16	74.00	-19.84	Peak	
4	2483.5000	39.75	5.60	45.35	54.00	-8.65	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

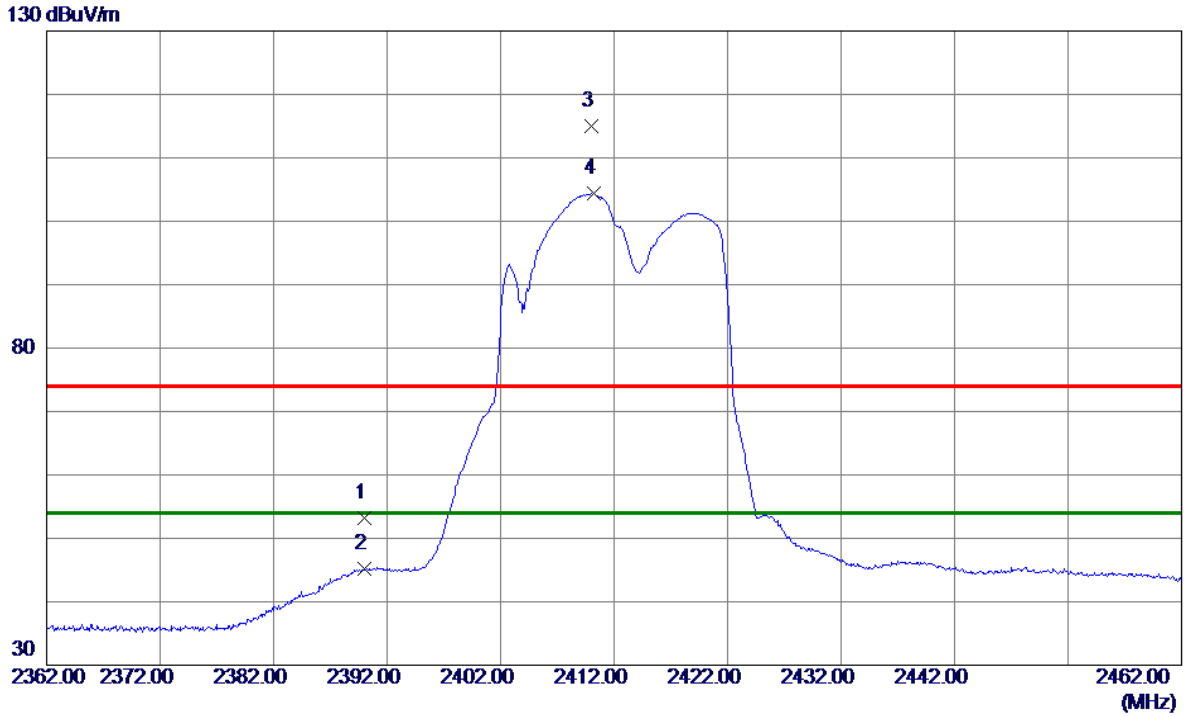
Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4901.4800	39.46	2.43	41.89	74.00	-32.11	Peak	
2 *	4904.0200	29.61	2.44	32.05	54.00	-21.95	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

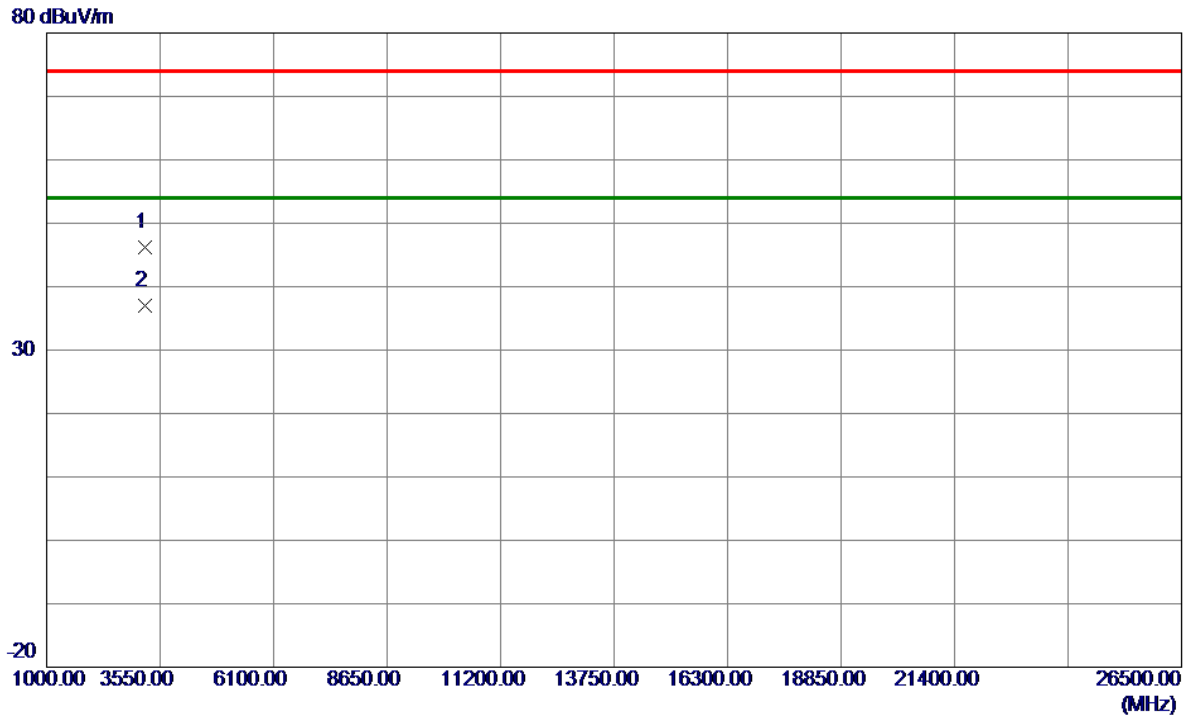
Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	47.87	5.37	53.24	74.00	-20.76	Peak	
2	2390.0000	39.90	5.37	45.27	54.00	-8.73	AVG	
3	2410.0000	109.53	5.42	114.95	74.00	40.95	Peak	No Limit
4 *	2410.2000	99.03	5.42	104.45	54.00	50.45	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

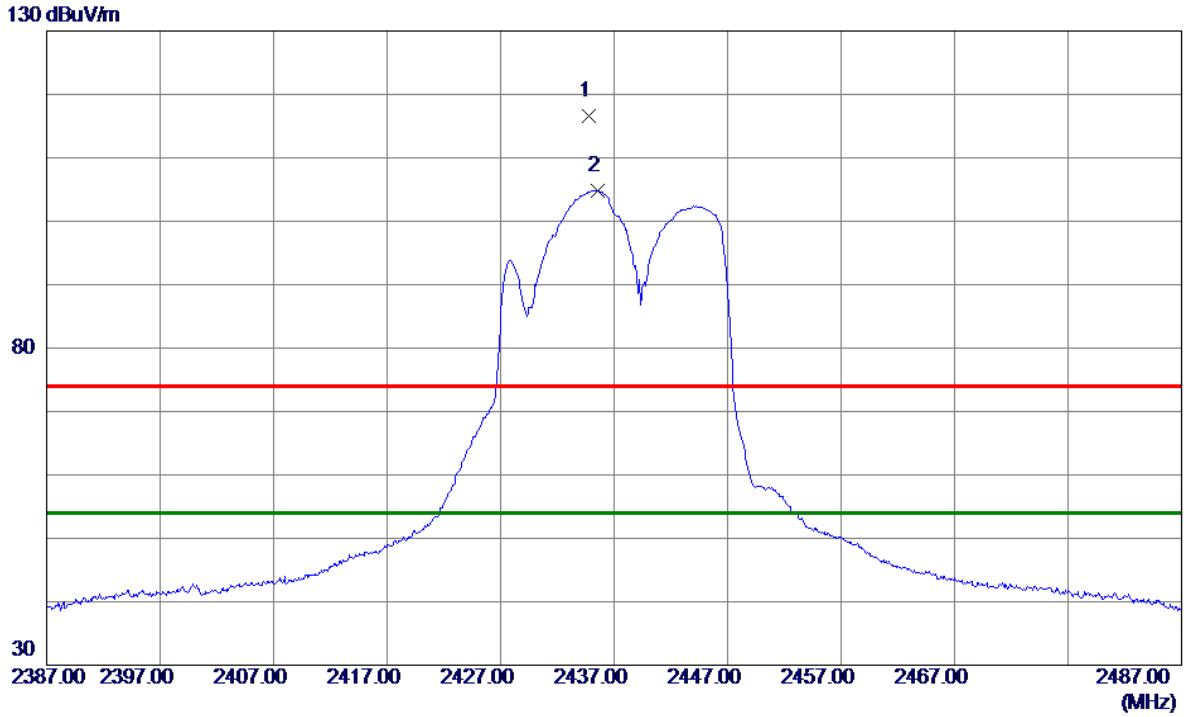
Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	3213.5400	48.69	-2.57	46.12	74.00	-27.88	Peak	
2 *	3215.9200	39.57	-2.57	37.00	54.00	-17.00	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

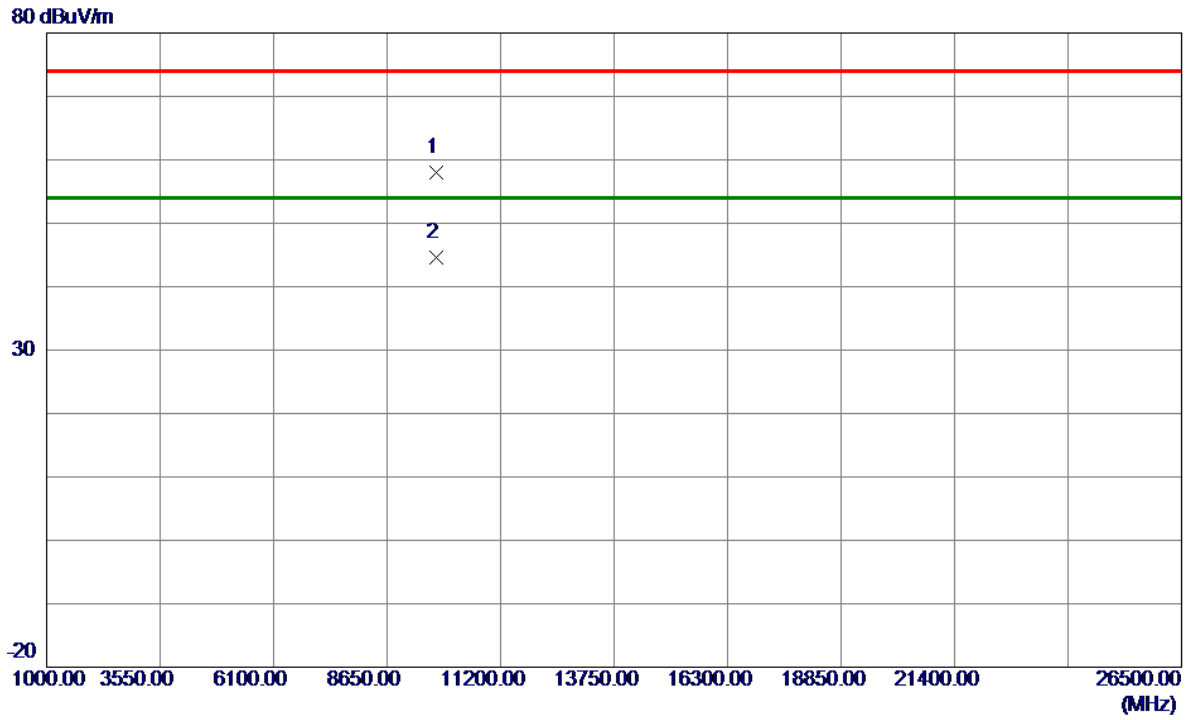
Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2434.8000	111.03	5.48	116.51	74.00	42.51	Peak	No Limit
2 *	2435.5500	99.37	5.48	104.85	54.00	50.85	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

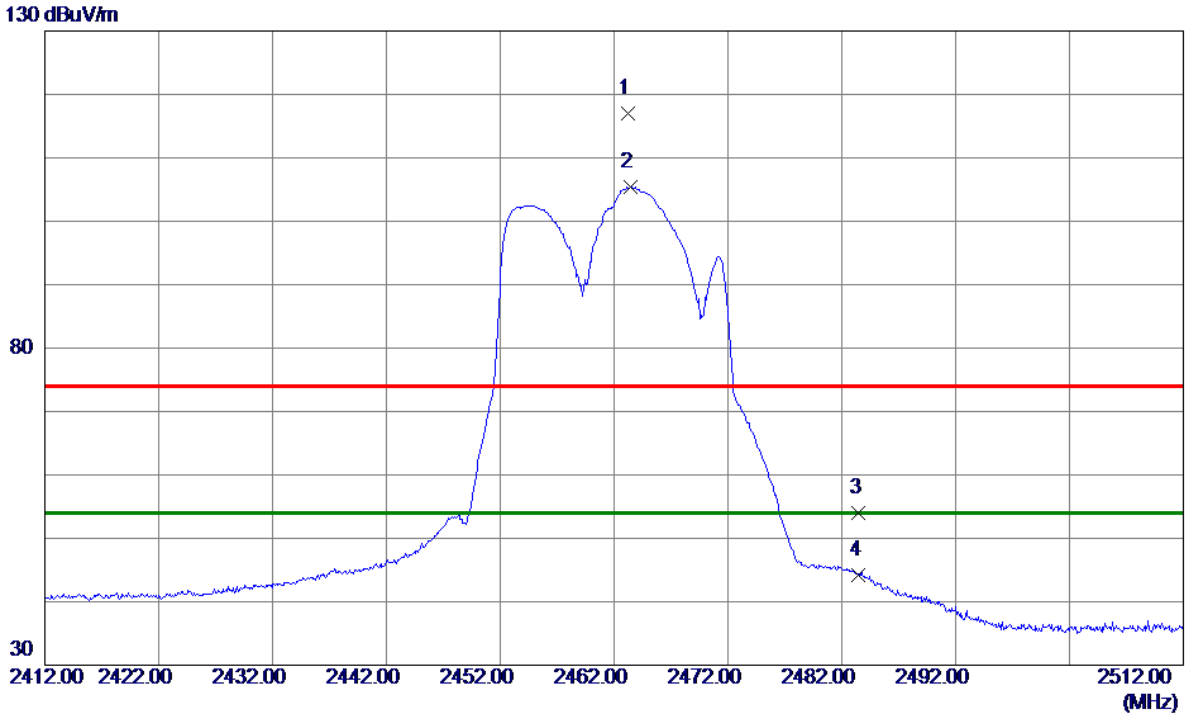
Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	9744.3200	50.50	7.59	58.09	74.00	-15.91	Peak	
2 *	9748.0800	36.93	7.59	44.52	54.00	-9.48	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

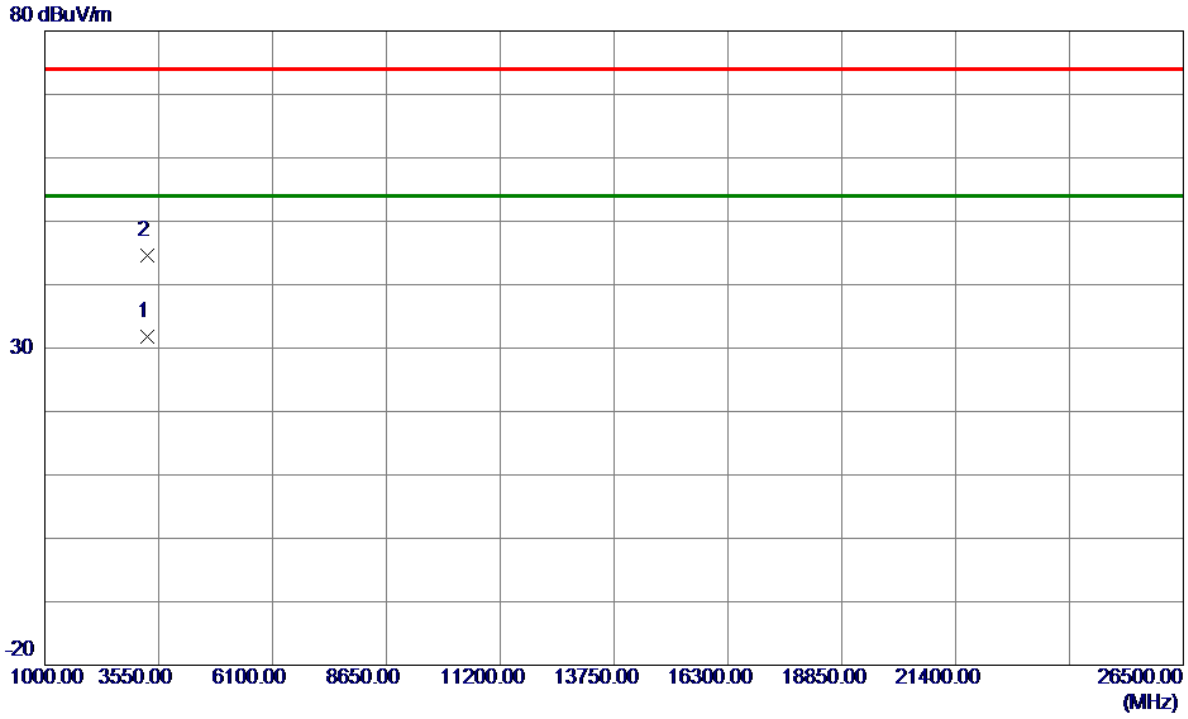
Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2463.2000	111.37	5.55	116.92	74.00	42.92	Peak	No Limit
2 *	2463.4000	99.79	5.55	105.34	54.00	51.34	AVG	No Limit
3	2483.5000	48.40	5.60	54.00	74.00	-20.00	Peak	
4	2483.5000	38.66	5.60	44.26	54.00	-9.74	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

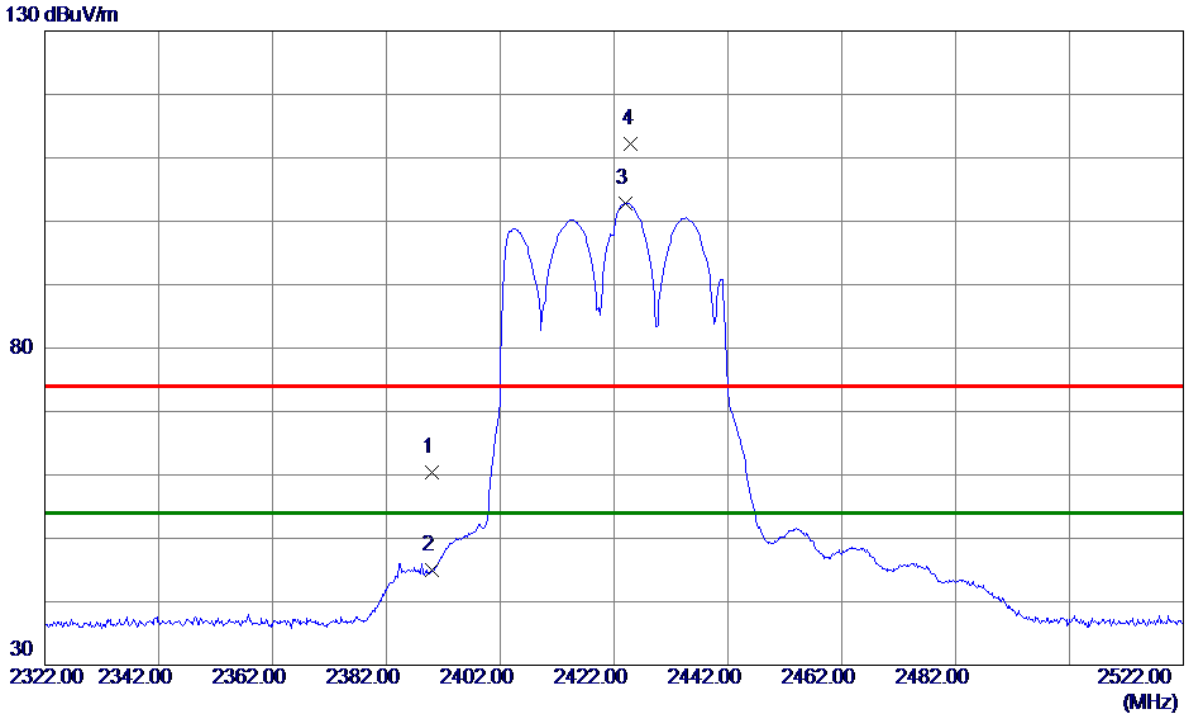
Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	3283.6800	34.29	-2.45	31.84	54.00	-22.16	AVG	
2	3290.9300	46.96	-2.44	44.52	74.00	-29.48	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

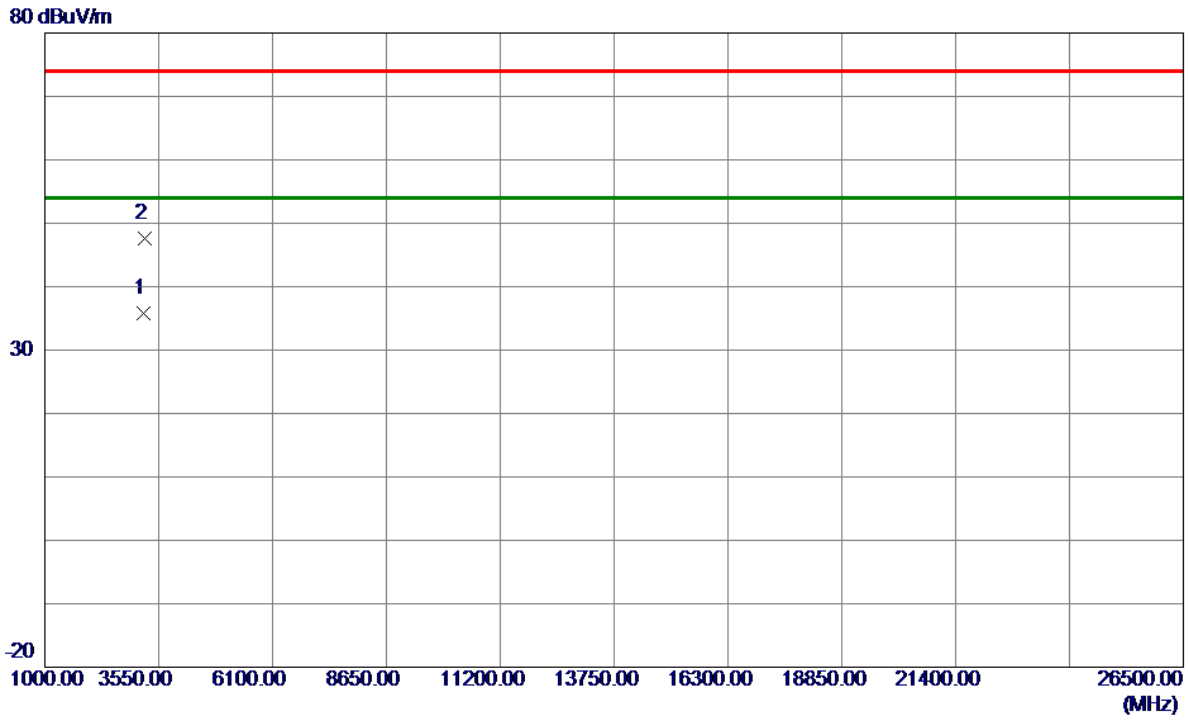
Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	54.96	5.37	60.33	74.00	-13.67	Peak	
2	2390.0000	39.66	5.37	45.03	54.00	-8.97	AVG	
3 *	2423.9000	97.40	5.46	102.86	54.00	48.86	AVG	No Limit
4	2425.0000	106.80	5.46	112.26	74.00	38.26	Peak	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

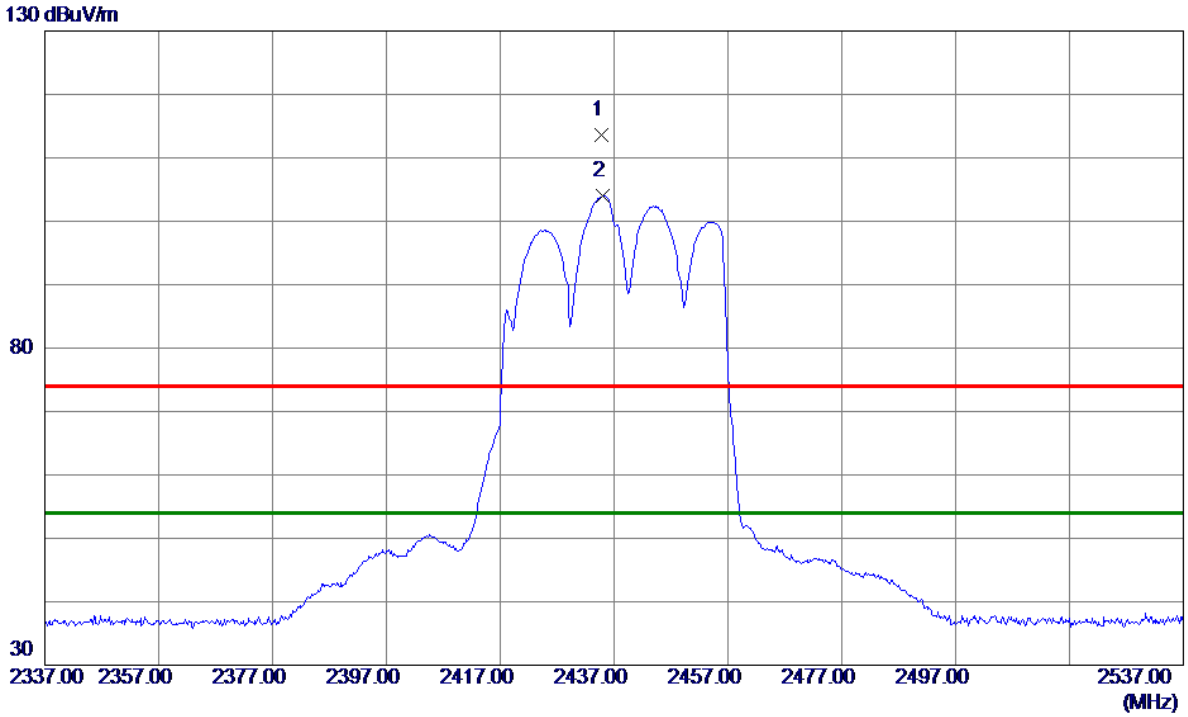
Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	3219.6299	38.38	-2.56	35.82	54.00	-18.18	AVG	
2	3238.7900	50.05	-2.53	47.52	74.00	-26.48	Peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

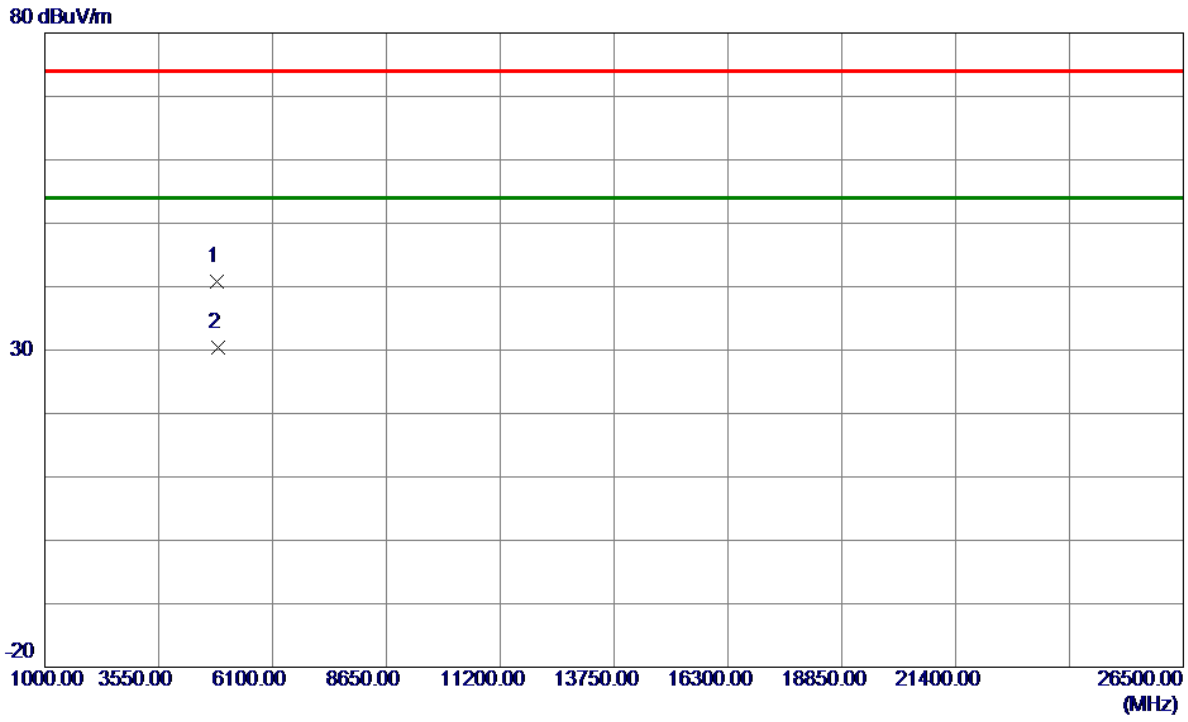
Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2434.8000	108.15	5.48	113.63	74.00	39.63	Peak	No Limit
2 *	2435.1000	98.53	5.48	104.01	54.00	50.01	AVG	No Limit

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

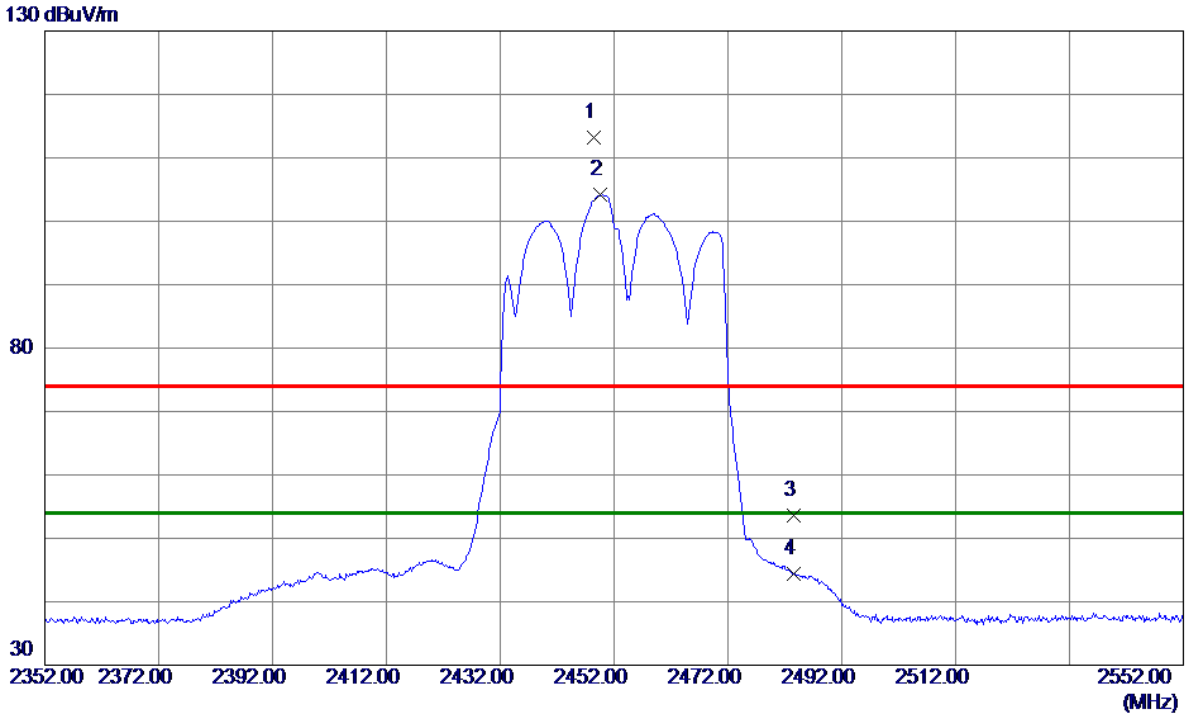
Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4865.5600	38.57	2.32	40.89	74.00	-33.11	Peak	
2 *	4873.9200	28.08	2.35	30.43	54.00	-23.57	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

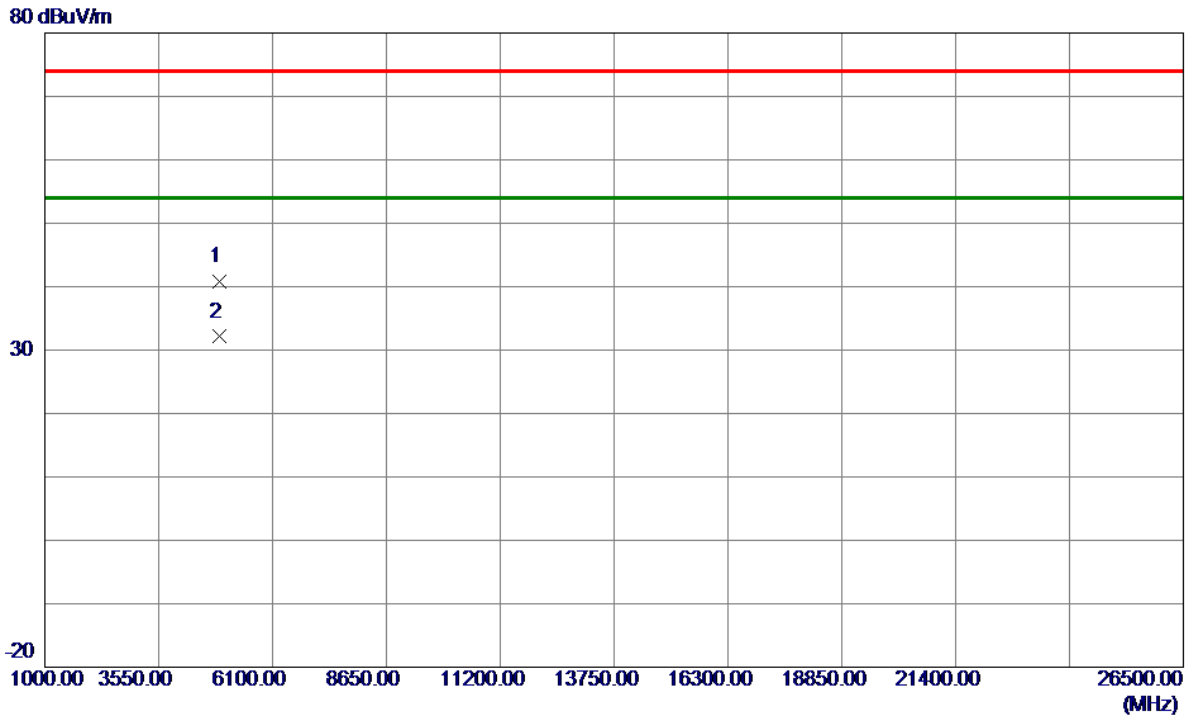
Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2448.4000	107.67	5.52	113.19	74.00	39.19	Peak	No Limit
2 *	2449.6000	98.60	5.52	104.12	54.00	50.12	AVG	No Limit
3	2483.5000	48.04	5.60	53.64	74.00	-20.36	Peak	
4	2483.5000	38.81	5.60	44.41	54.00	-9.59	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4901.9700	38.45	2.43	40.88	74.00	-33.12	Peak	
2 *	4904.0099	29.66	2.44	32.10	54.00	-21.90	AVG	

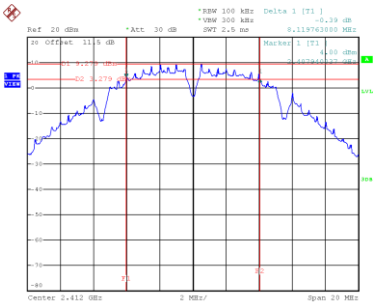
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	TX B Mode

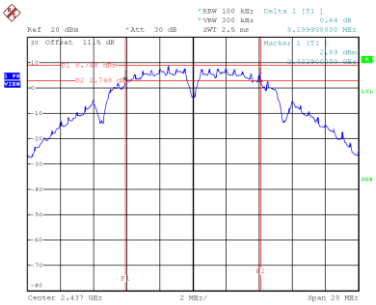
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	8.120	12.800	0.5	Complies
06	2437	8.200	12.720	0.5	Complies
11	2462	7.060	13.440	0.5	Complies

CH01

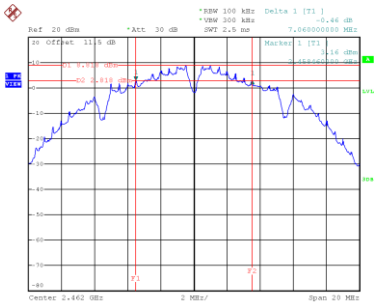


CH06

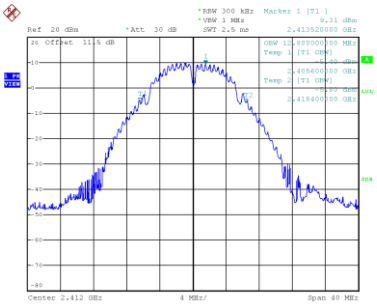
6 dB Bandwidth

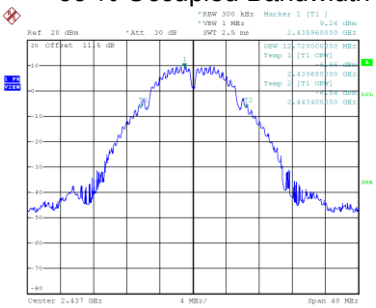


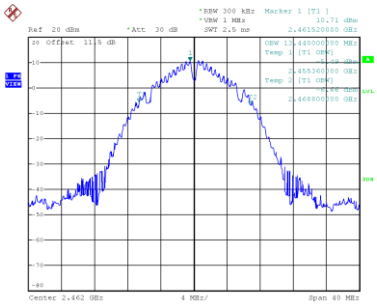
CH11



99 % Occupied Bandwidth



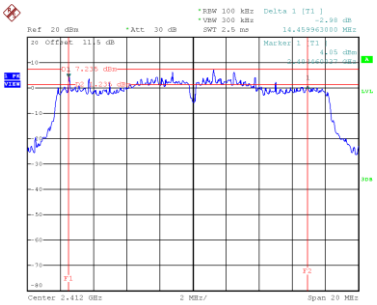




Test Mode	TX G Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	14.460	16.400	0.5	Complies
06	2437	15.040	16.400	0.5	Complies
11	2462	15.070	16.400	0.5	Complies

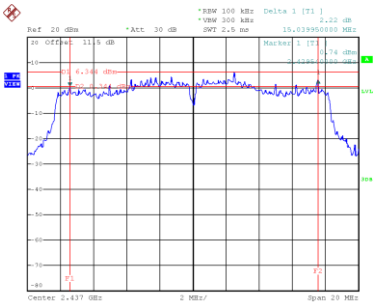
CH01



Date: 1.JUN.2022 16:22:52

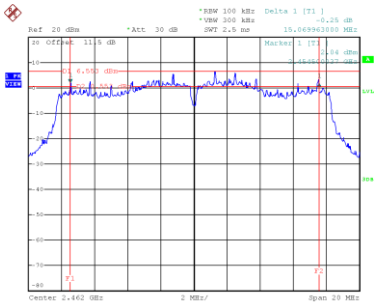
CH06

6 dB Bandwidth

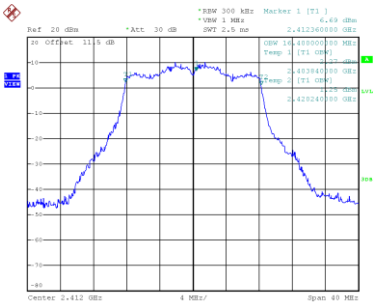


Date: 1.JUN.2022 16:24:29

CH11

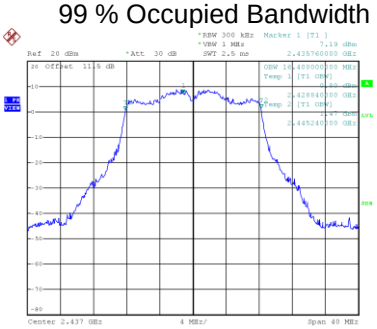


Date: 1.JUN.2022 16:25:51

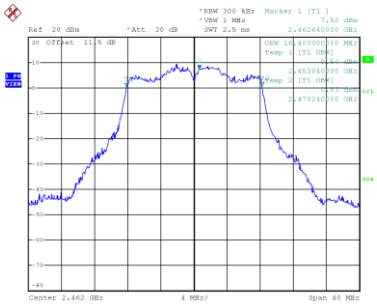


Date: 1.JUN.2022 16:22:59

99 % Occupied Bandwidth



Date: 1.JUN.2022 16:24:36

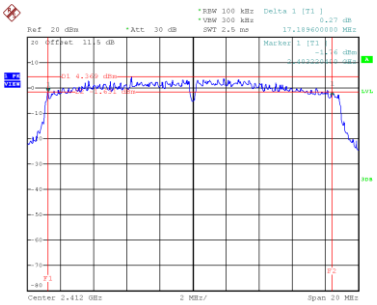


Date: 1.JUN.2022 16:25:58

Test Mode	TX N(HT20) Mode

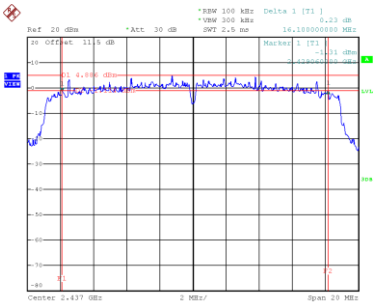
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.190	17.440	0.5	Complies
06	2437	16.100	17.520	0.5	Complies
11	2462	16.590	17.680	0.5	Complies

CH01

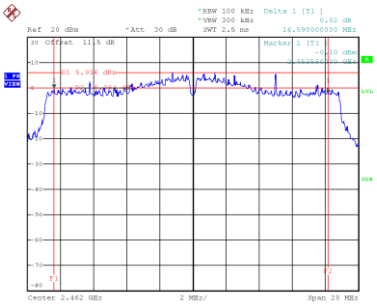


CH06

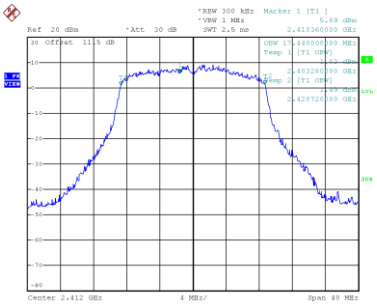
6 dB Bandwidth

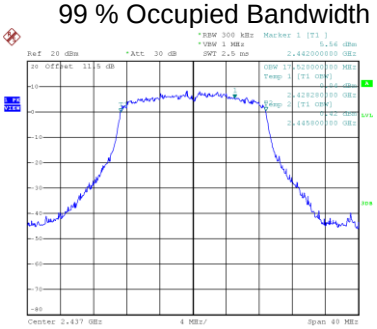


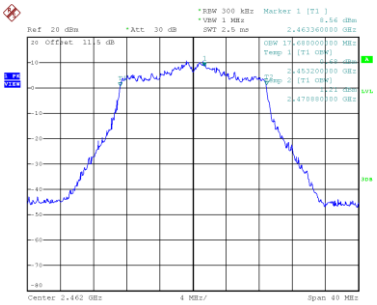
CH11



99 % Occupied Bandwidth







Test Mode	TX N(HT40) Mode

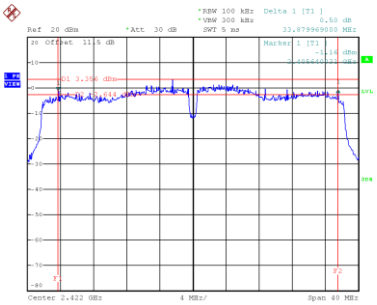
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	33.880	36.000	0.5	Complies
06	2437	27.600	36.000	0.5	Complies
09	2452	34.480	36.000	0.5	Complies

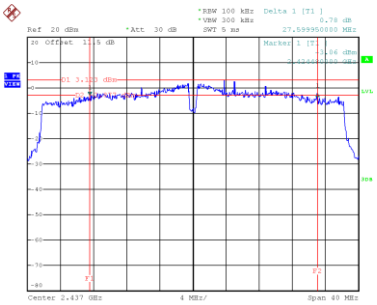
CH03

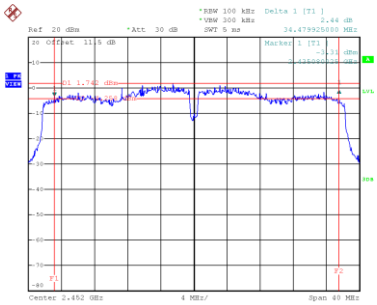
CH06

CH09

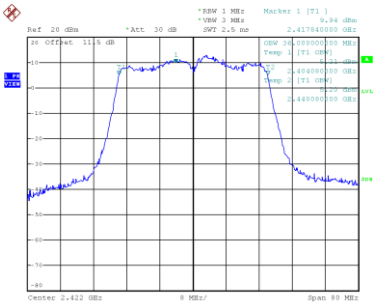
6 dB Bandwidth

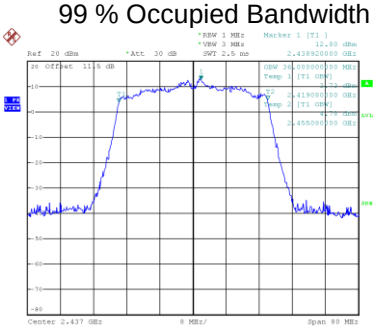


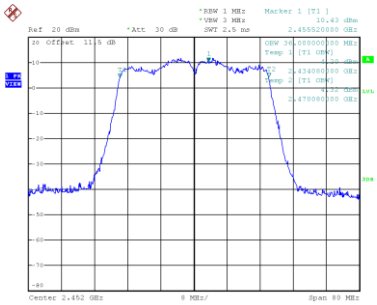




99 % Occupied Bandwidth







Test Mode	TX AX(HE20) Mode

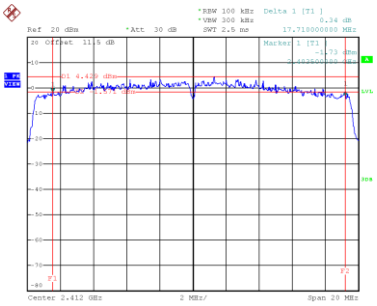
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.710	18.800	0.5	Complies
06	2437	15.310	18.800	0.5	Complies
11	2462	11.880	18.640	0.5	Complies

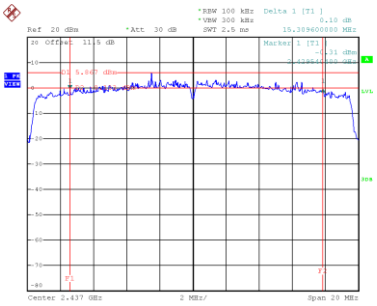
CH01

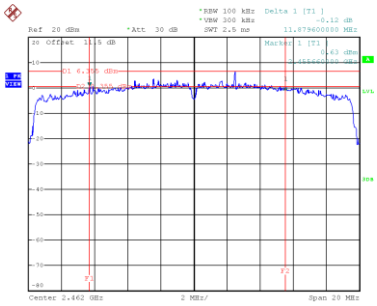
CH06

CH11

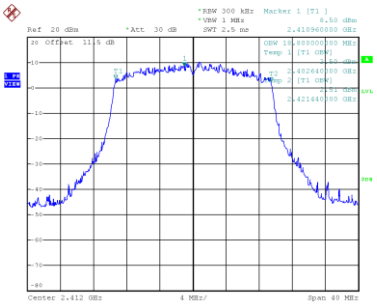
6 dB Bandwidth

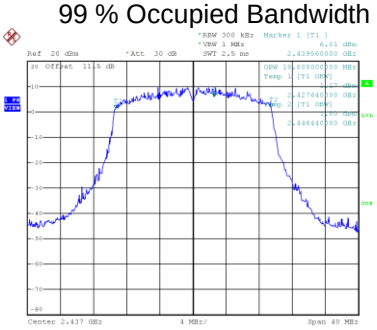


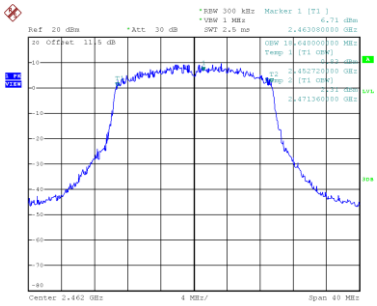




99 % Occupied Bandwidth



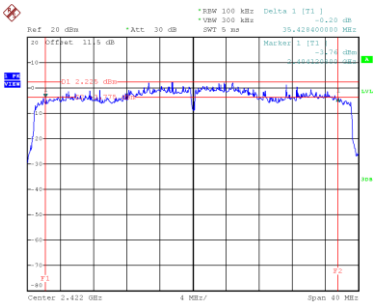




Test Mode	TX AX(HE40) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	35.428	37.600	0.5	Complies
06	2437	26.160	37.440	0.5	Complies
09	2452	35.920	37.440	0.5	Complies

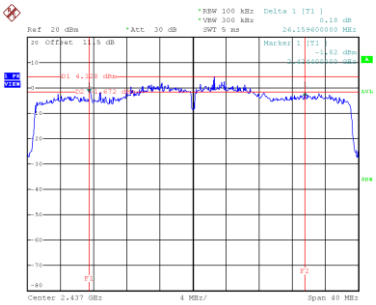
CH03



Date: 1.JUN.2022 16:45:59

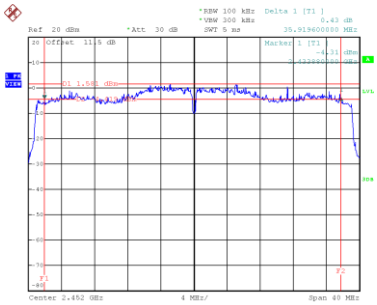
CH06

6 dB Bandwidth

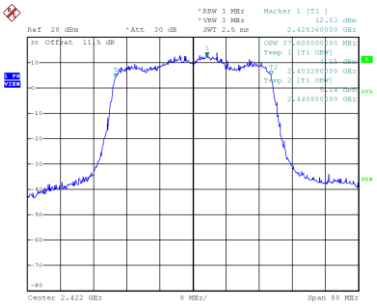


Date: 1.JUN.2022 16:47:45

CH09

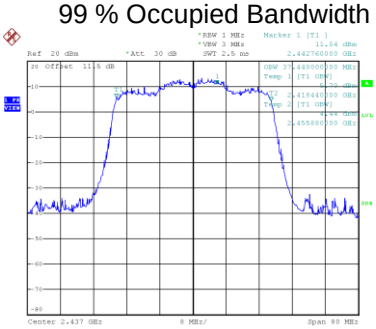


Date: 1.JUN.2022 16:49:25

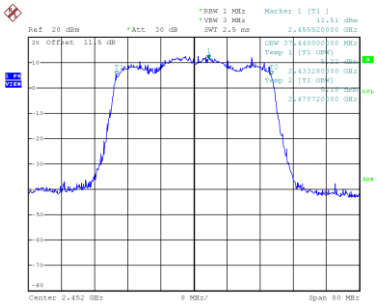


Date: 1.JUN.2022 16:46:06

99 % Occupied Bandwidth



Date: 1.JUN.2022 16:47:53



Date: 1.JUN.2022 16:49:33

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.23	2.12	16.35	30.00	1.0000	Complies
06	2437	14.63	2.12	16.75	30.00	1.0000	Complies
11	2462	14.28	2.12	16.40	30.00	1.0000	Complies

Test Mode	TX B Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.63	2.12	15.75	30.00	1.0000	Complies
06	2437	13.95	2.12	16.07	30.00	1.0000	Complies
11	2462	13.51	2.12	15.63	30.00	1.0000	Complies

Test Mode	TX B Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.07	30.00	1.0000	Complies
06	2437	19.44	30.00	1.0000	Complies
11	2462	19.04	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.36	0.21	14.57	30.00	1.0000	Complies
06	2437	14.37	0.21	14.58	30.00	1.0000	Complies
11	2462	13.96	0.21	14.17	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.71	0.21	13.92	30.00	1.0000	Complies
06	2437	13.55	0.21	13.76	30.00	1.0000	Complies
11	2462	13.15	0.21	13.36	30.00	1.0000	Complies

Test Mode	TX G Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.27	30.00	1.0000	Complies
06	2437	17.20	30.00	1.0000	Complies
11	2462	16.80	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.12	0.40	14.52	30.00	1.0000	Complies
06	2437	14.35	0.40	14.75	30.00	1.0000	Complies
11	2462	14.43	0.40	14.83	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.59	0.40	13.99	30.00	1.0000	Complies
06	2437	13.70	0.40	14.10	30.00	1.0000	Complies
11	2462	13.72	0.40	14.12	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.27	30.00	1.0000	Complies
06	2437	17.44	30.00	1.0000	Complies
11	2462	17.49	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	14.42	0.48	14.90	30.00	1.0000	Complies
06	2437	14.31	0.48	14.79	30.00	1.0000	Complies
09	2452	13.94	0.48	14.42	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	13.46	0.48	13.94	30.00	1.0000	Complies
06	2437	13.09	0.48	13.57	30.00	1.0000	Complies
09	2452	13.52	0.48	14.00	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.46	30.00	1.0000	Complies
06	2437	17.24	30.00	1.0000	Complies
09	2452	17.23	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.02	0.34	14.36	30.00	1.0000	Complies
06	2437	14.48	0.34	14.82	30.00	1.0000	Complies
11	2462	14.07	0.34	14.41	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.36	0.34	13.70	30.00	1.0000	Complies
06	2437	13.72	0.34	14.06	30.00	1.0000	Complies
11	2462	13.31	0.34	13.65	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.05	30.00	1.0000	Complies
06	2437	17.46	30.00	1.0000	Complies
11	2462	17.05	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	14.21	0.40	14.61	30.00	1.0000	Complies
06	2437	14.53	0.40	14.93	30.00	1.0000	Complies
09	2452	14.28	0.40	14.68	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	13.23	0.40	13.63	30.00	1.0000	Complies
06	2437	13.38	0.40	13.78	30.00	1.0000	Complies
09	2452	13.75	0.40	14.15	30.00	1.0000	Complies

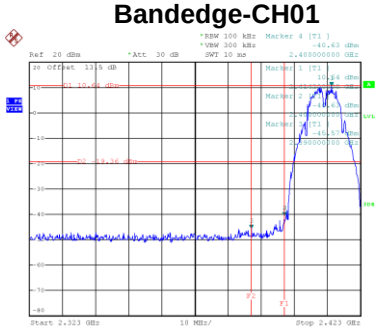
Test Mode	TX AX(HE40) Mode_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.15	30.00	1.0000	Complies
06	2437	17.40	30.00	1.0000	Complies
09	2452	17.43	30.00	1.0000	Complies

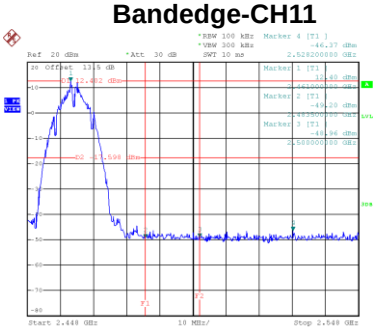
APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

Test Mode	TX B Mode_Ant. 1

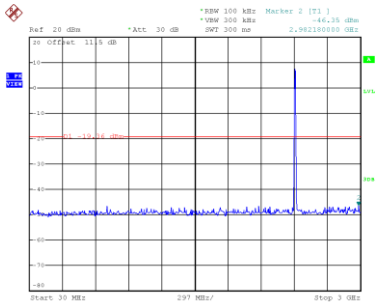
Bandedge-CH01

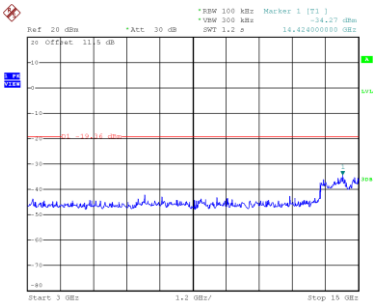


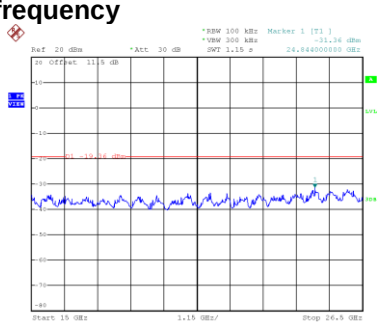
Bandedge-CH11



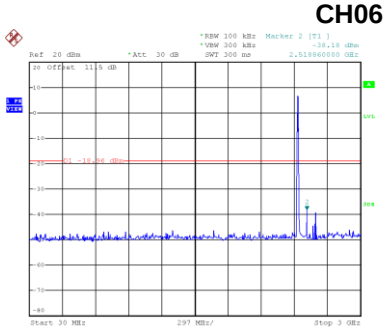
CH01 – 10th Harmonic of the fundamental frequency

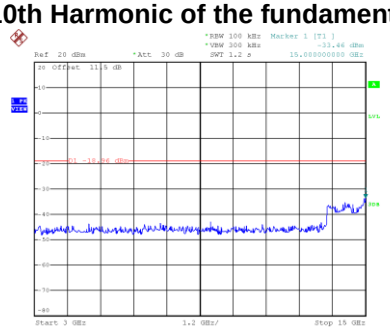


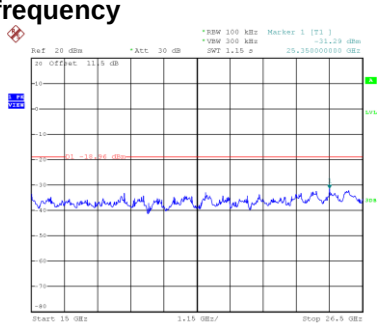




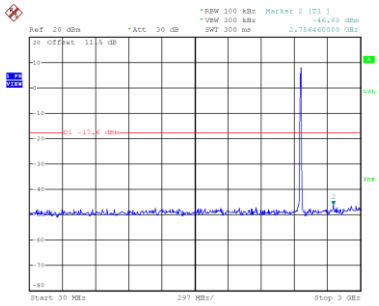
CH06 – 10th Harmonic of the fundamental frequency

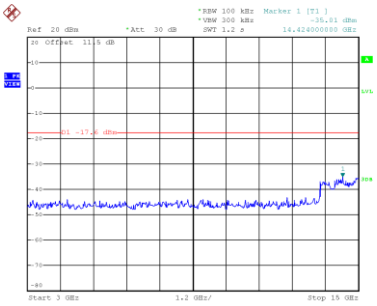


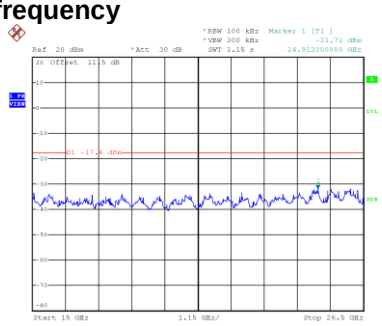




CH11 – 10th Harmonic of the fundamental frequency

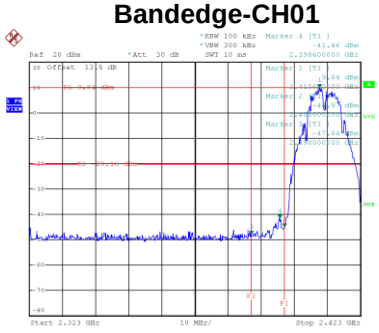




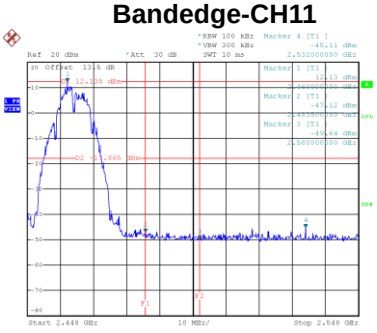


Test Mode	TX B Mode_Ant. 2

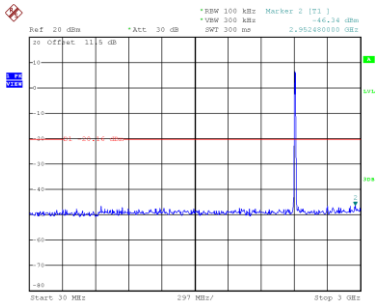
Bandedge-CH01

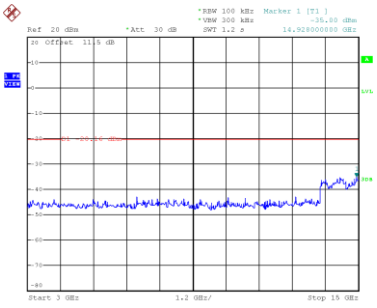


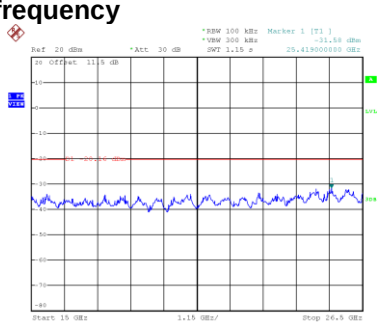
Bandedge-CH11



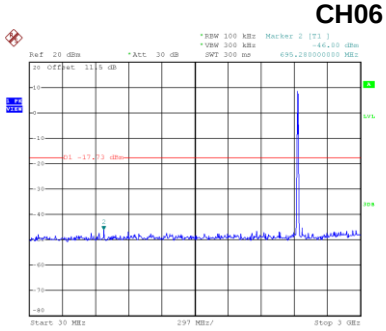
CH01 – 10th Harmonic of the fundamental frequency

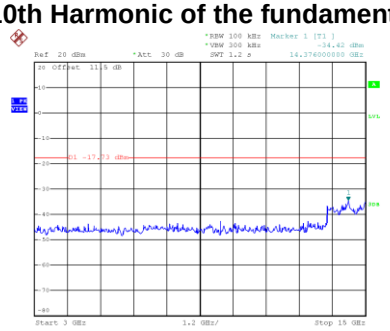


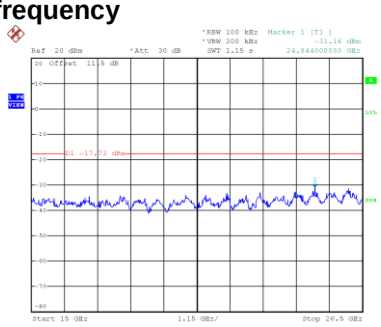




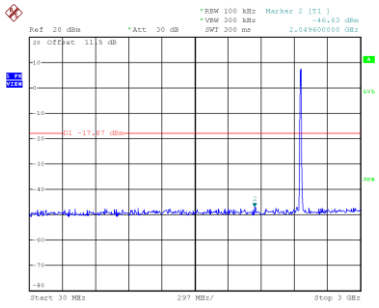
CH06 – 10th Harmonic of the fundamental frequency

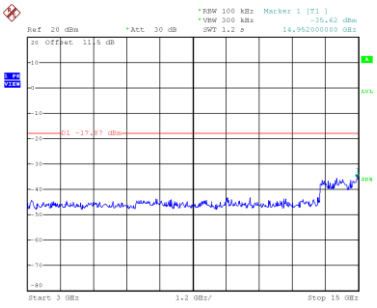


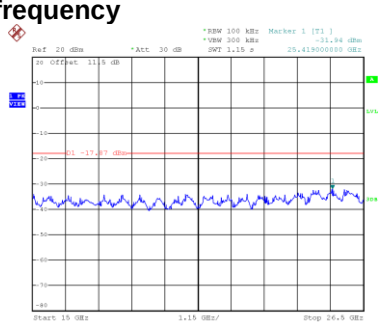




CH11 – 10th Harmonic of the fundamental frequency

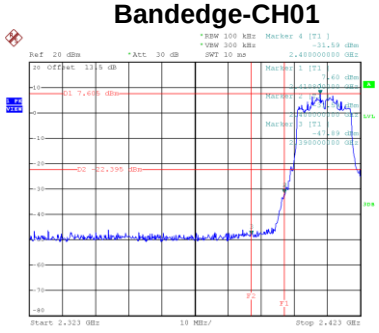




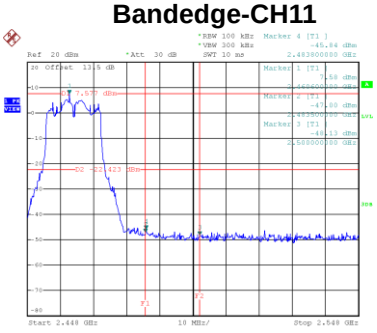


Test Mode	TX G Mode_Ant. 1

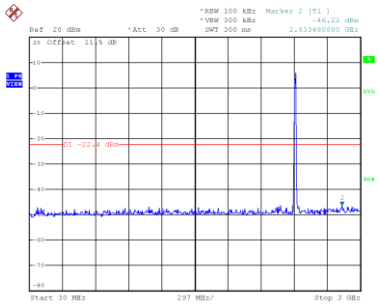
Bandedge-CH01

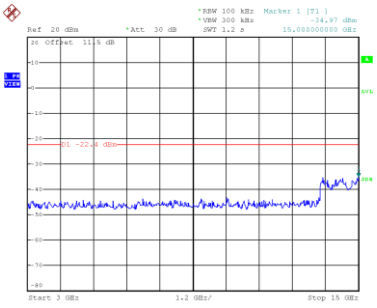


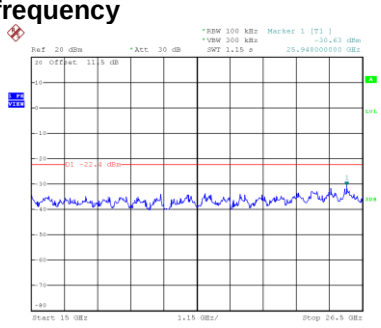
Bandedge-CH11



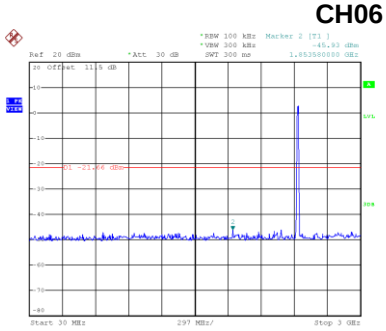
CH01 – 10th Harmonic of the fundamental frequency

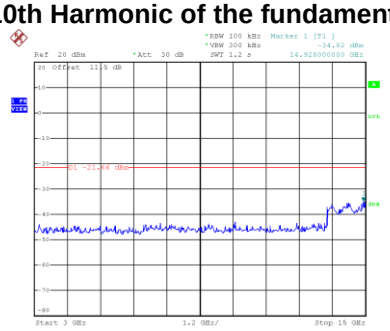


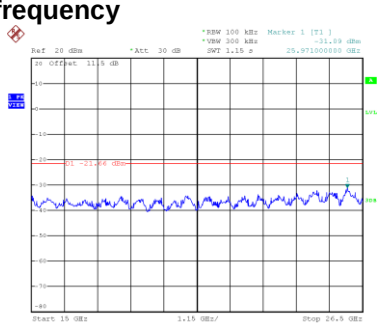




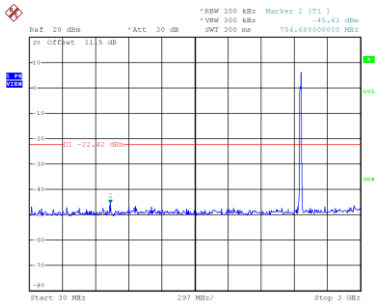
CH06 – 10th Harmonic of the fundamental frequency

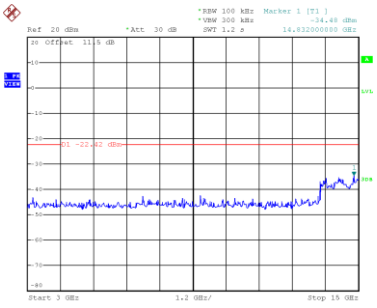


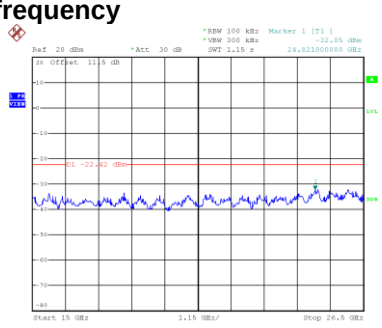




CH11 – 10th Harmonic of the fundamental frequency

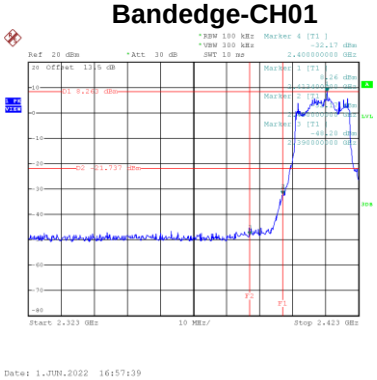




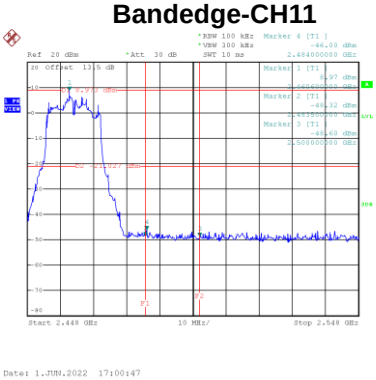


Test Mode	TX G Mode_Ant. 2

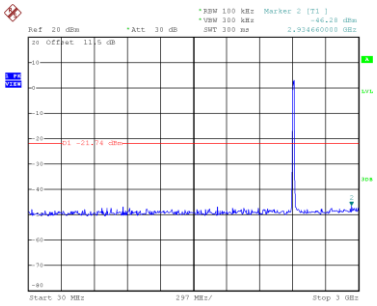
Bandedge-CH01

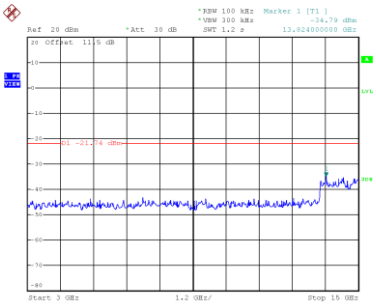


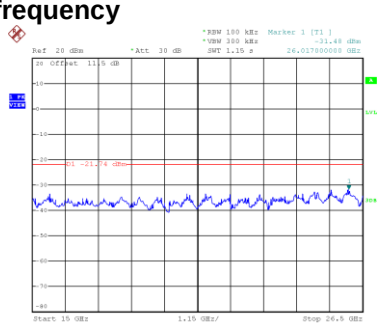
Bandedge-CH11



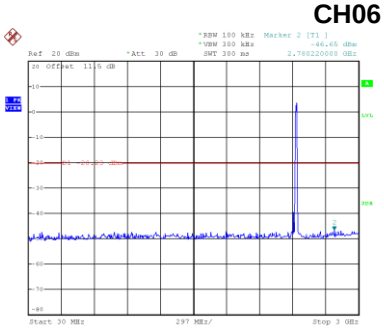
CH01 – 10th Harmonic of the fundamental frequency

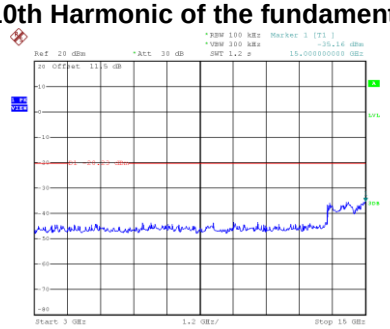


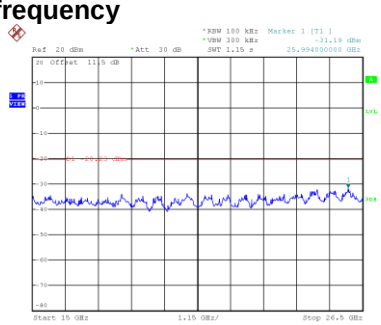




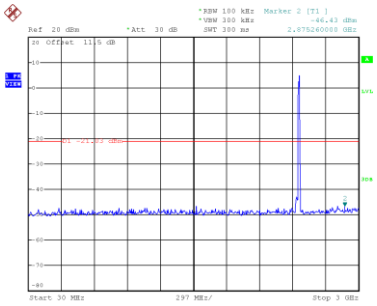
CH06 – 10th Harmonic of the fundamental frequency

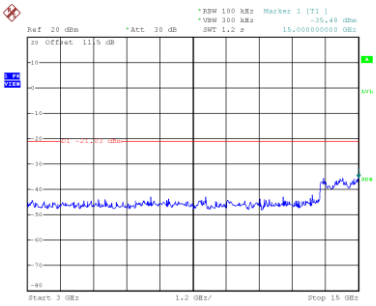


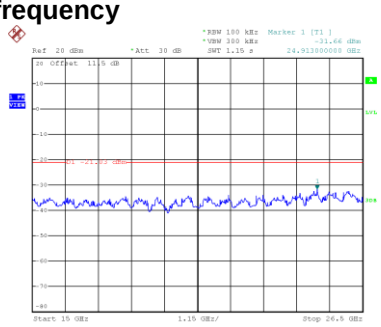




CH11 – 10th Harmonic of the fundamental frequency

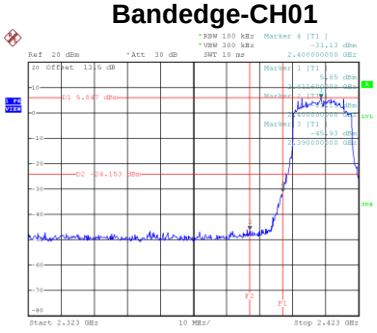




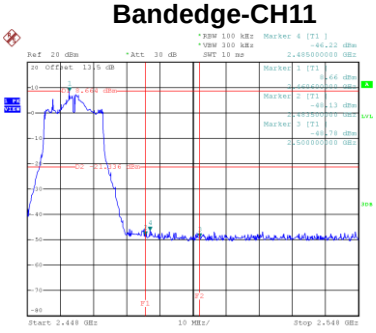


Test Mode	TX N(HT20) Mode_Ant. 1

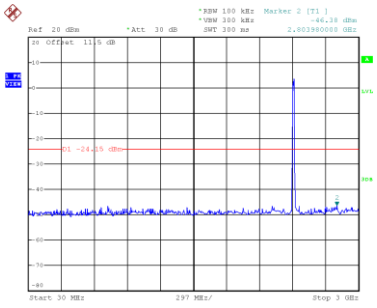
Bandedge-CH01

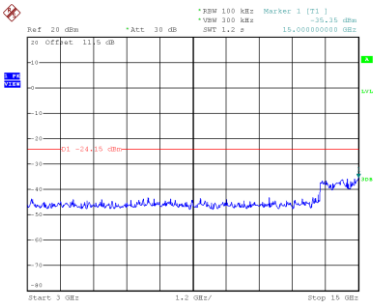


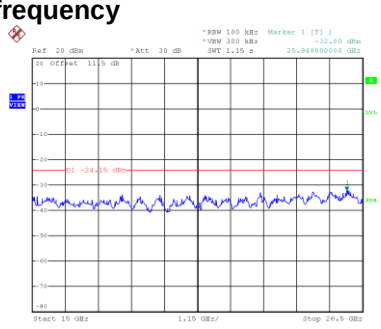
Bandedge-CH11



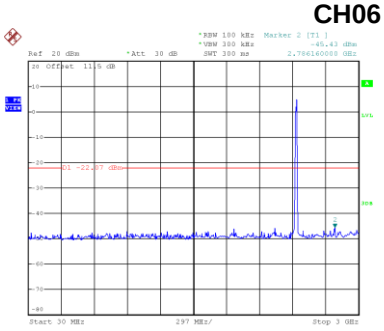
CH01 – 10th Harmonic of the fundamental frequency

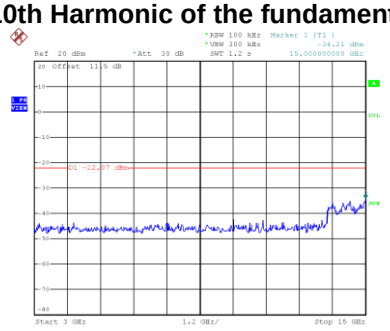


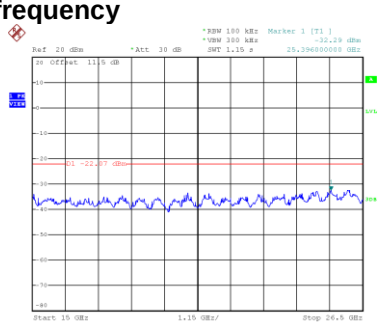




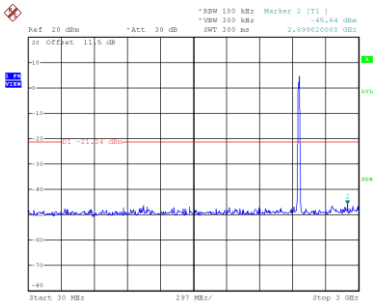
CH06 – 10th Harmonic of the fundamental frequency

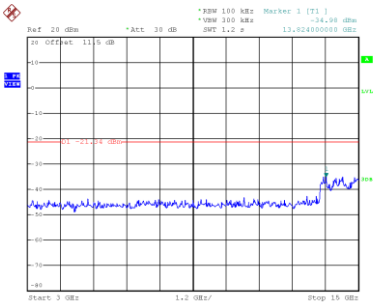


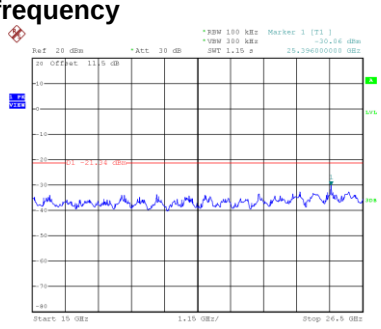




CH11 – 10th Harmonic of the fundamental frequency

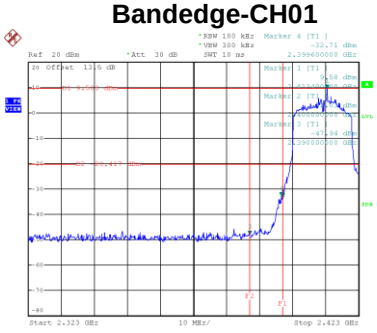




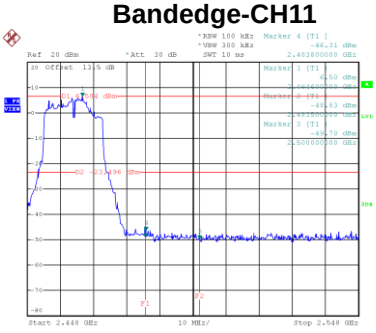


Test Mode	TX N(HT20) Mode_Ant. 2

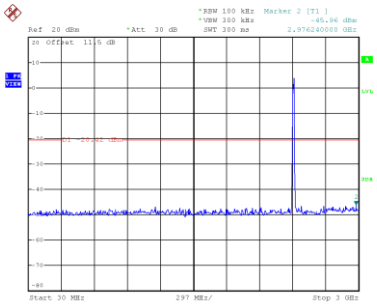
Bandedge-CH01

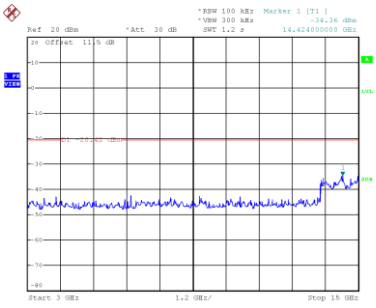


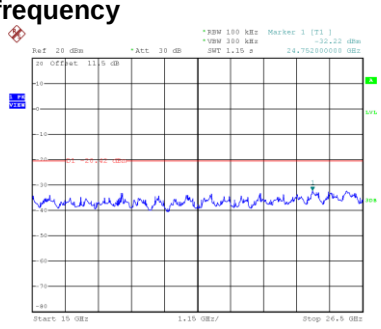
Bandedge-CH11



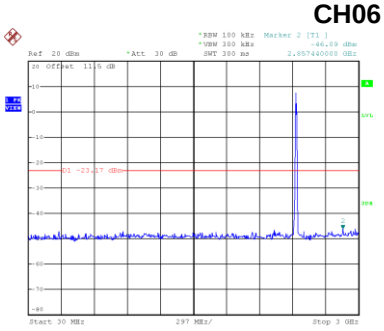
CH01 – 10th Harmonic of the fundamental frequency

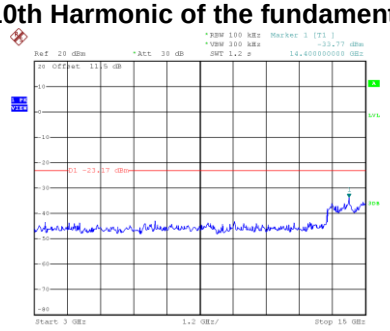


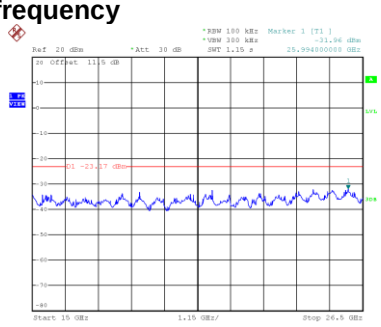




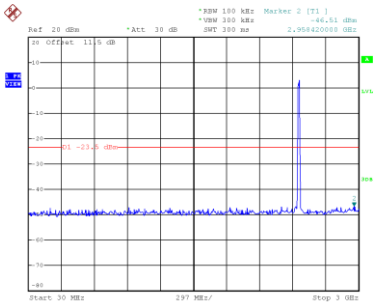
CH06 – 10th Harmonic of the fundamental frequency

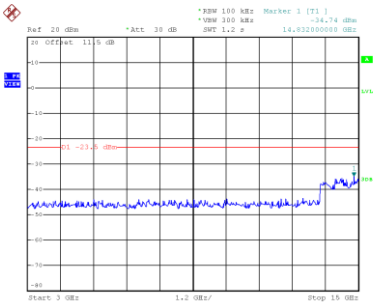


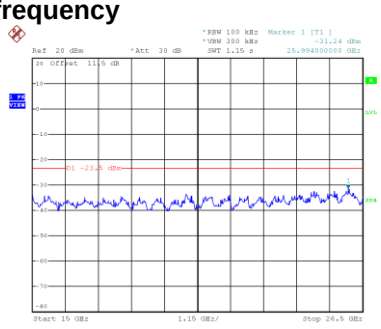




CH11 – 10th Harmonic of the fundamental frequency

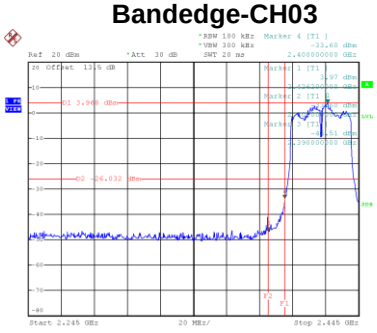






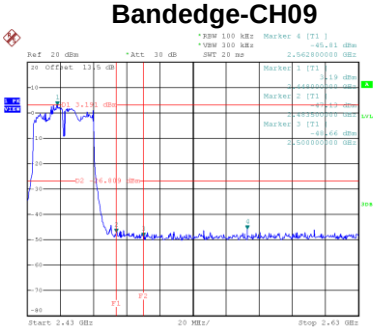
Test Mode	TX N(HT40) Mode_Ant. 1

Bandedge-CH03



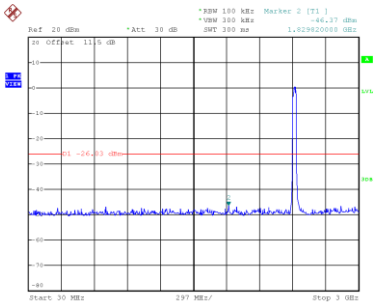
Date: 1.JUN.2022 16:34:17

Bandedge-CH09

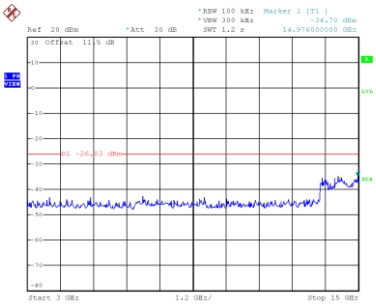


Date: 1.JUN.2022 16:39:49

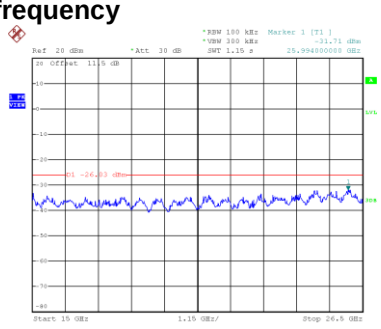
CH03 – 10th Harmonic of the fundamental frequency



Date: 1.JUN.2022 16:34:31

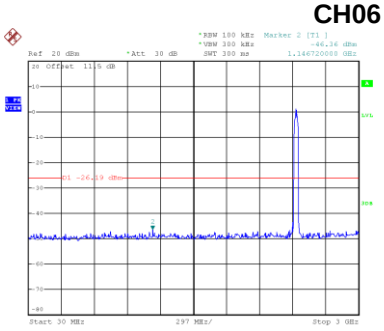


Date: 1.JUN.2022 16:34:39

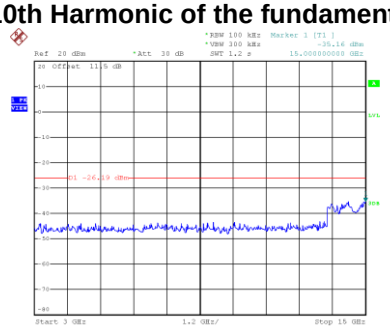


Date: 1.JUN.2022 16:34:47

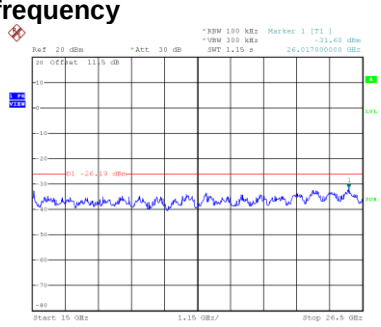
CH06 – 10th Harmonic of the fundamental frequency



Date: 1.JUN.2022 16:36:16

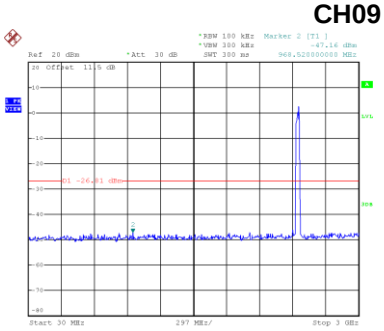


Date: 1.JUN.2022 16:36:24

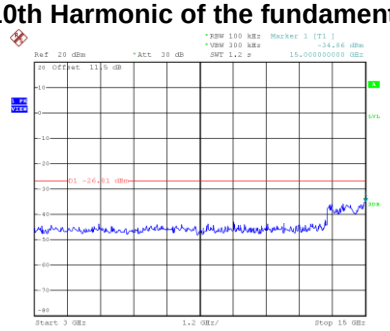


Date: 1.JUN.2022 16:36:32

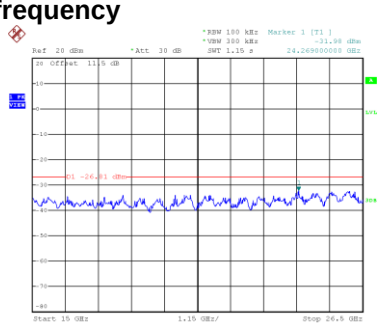
CH09 – 10th Harmonic of the fundamental frequency



Date: 1.JUN.2022 16:40:03



Date: 1.JUN.2022 16:40:11



Date: 1.JUN.2022 16:40:19