

Product Name: Wireless Access Point	Report No: FCC022022-05522RF5
Product Model: AP 6SA	Security Classification: Open
Version: V1.0	Total Page: 61

TIRT Testing Report



Prepared By:	Checked By:	Approved By:	The logo for TIRT Shenzhen is a circular emblem with the text "TIRT Shenzhen" in the center and "Beijing TIRT Technology Service Co., Ltd." around the perimeter.
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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
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
FCC022022-05522RF5	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 Emission	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 to this device.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

1.1 TEST FACILITY

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 %
Temperature	± 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-9 kHz to 30 MHz	24°C	62%	PoE 48V	Stone Tang
Radiated Emissions-30 MHz to 1000 MHz	24°C	54%	PoE 48V	Stone Tang
Radiated Emissions-Above 1000 MHz	23°C	53%	PoE 48V	Stone Tang
Bandwidth	23.6°C	53%	PoE 48V	Stone Tang
Maximum Output Power	23.6°C	53%	PoE 48V	Stone Tang
Conducted Spurious Emission	23.6°C	53%	PoE 48V	Stone Tang
Power Spectral Density	23.6°C	53%	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
Power Source	DC voltage supplied from PoE adapter or AC adapter. (Supports Unit)
Power Rating	PoE 48V $\overline{=}$ 0.3A; DC 48V $\overline{=}$ 0.6A
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	1Mbps, 2Mbps
Max. Output Power	1Mbps: 8.35 dBm (0.0069 W)

Note:

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

2. Channel List:

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

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	2.14

Note: The antenna gain is provided by the manufacturer.

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 Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 00/19/39
Mode 3	TX Mode_1Mbps Channel 39

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 3	TX Mode_1Mbps Channel 39

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 3	TX Mode_1Mbps Channel 39

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 00/19/39

Conducted test	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 00/19/39

Note:

- (1) 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.
- (2) For AC power line conducted emissions and radiated emissions below 1 GHz test, the 1Mbps Channel 39 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Horizontal and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

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

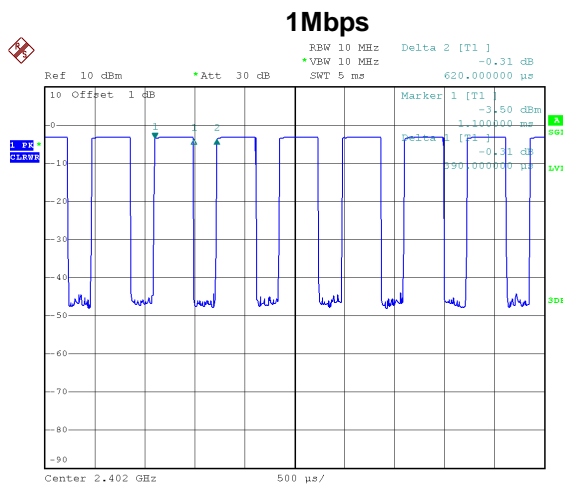
Test Software Version	qdart_conn.win.1.0_installer_00089.1		
Frequency (MHz)	2402	2440	2480
1Mbps	default	default	default
2Mbps	default	default	default

2.4 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.

If duty cycle is $< 98\%$, duty factor shall be considered.

The output power = measured power + duty factor.



Date: 14.JUL.2022 19:02:19

Duty cycle = $0.39 \text{ ms} / 0.62 \text{ ms} = 62.90\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 2.01$



Date: 14.JUL.2022 19:10:35

Duty cycle = $0.21 \text{ ms} / 0.63 \text{ ms} = 33.33\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 4.77$

Note:

For 1Mbps:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2564 Hz.

For 2Mbps:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 4762 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.

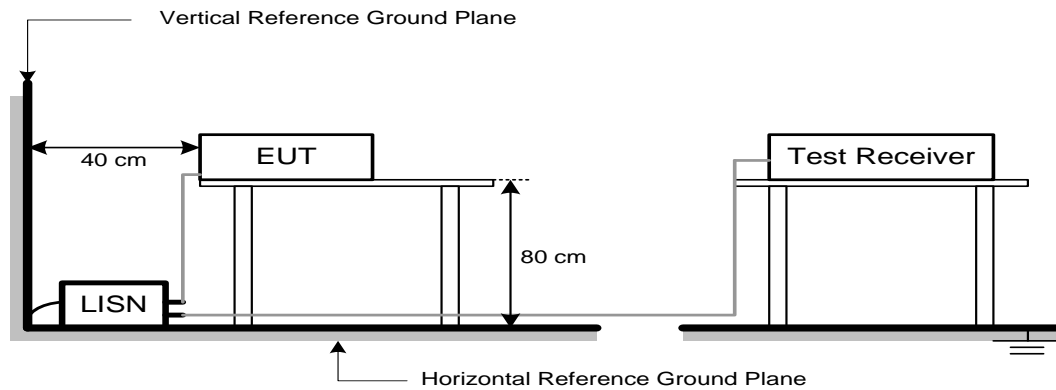
The following table is the setting of the receiver:

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 OPERATING CONDITIONS

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

3.6 TEST RESULTS

Please refer to the APPENDIX A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』 . If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150 kHz to 30 MHz.

4. RADIATED EMISSIONS

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) 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)	(dBuV/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 (dBuV/m)=20log Emission level (uV/m).

4.2 TEST PROCEDURE

- 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)
- 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)
- 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.
- 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).
- 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.
- 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.
- 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)
- 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)
- 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

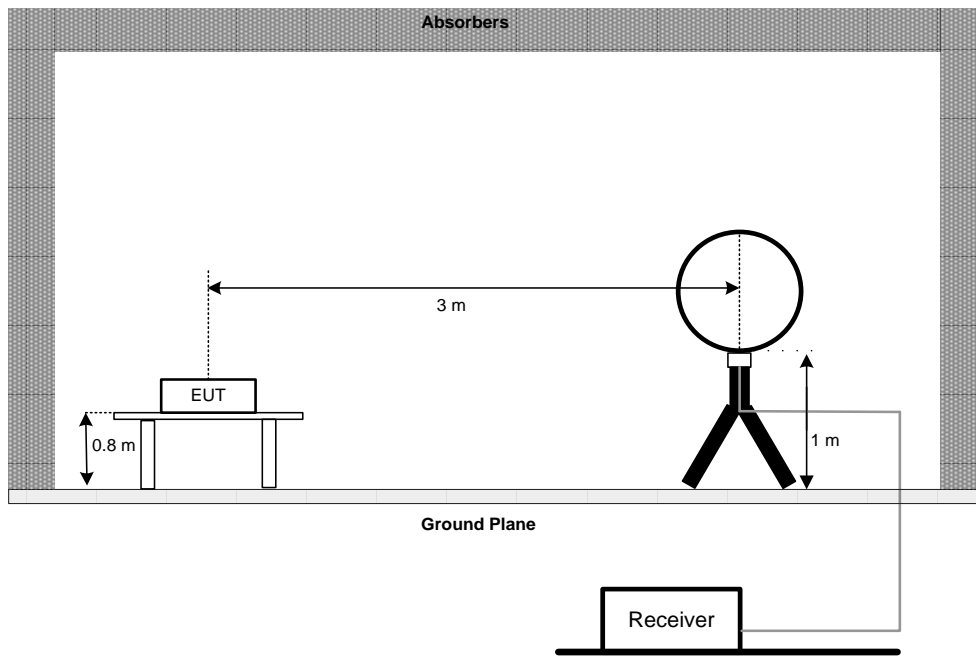
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

4.3 DEVIATION FROM TEST STANDARD

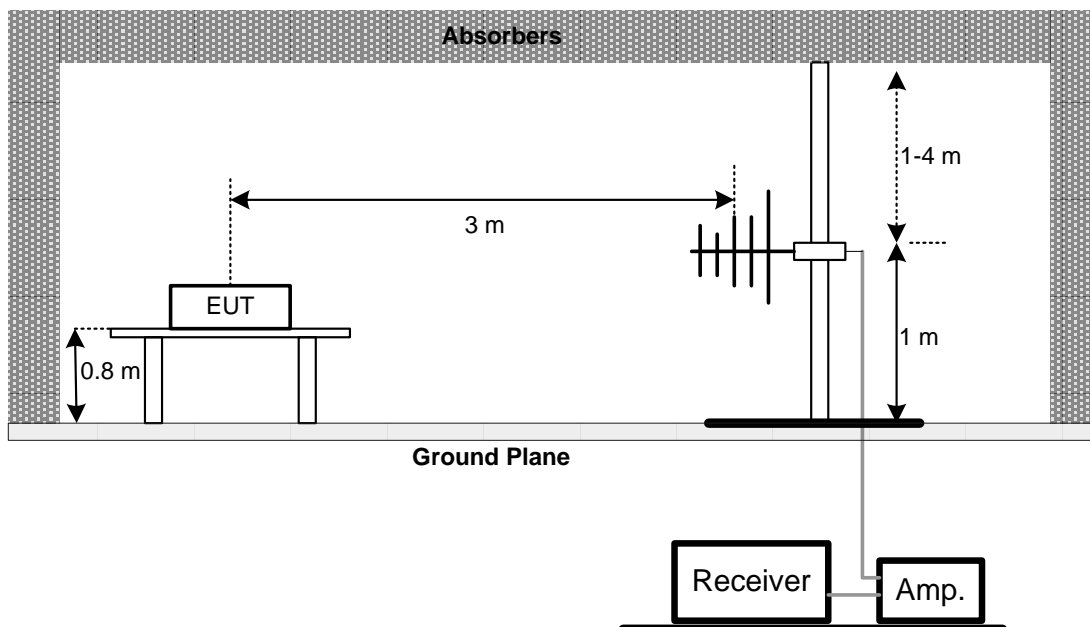
No deviation.

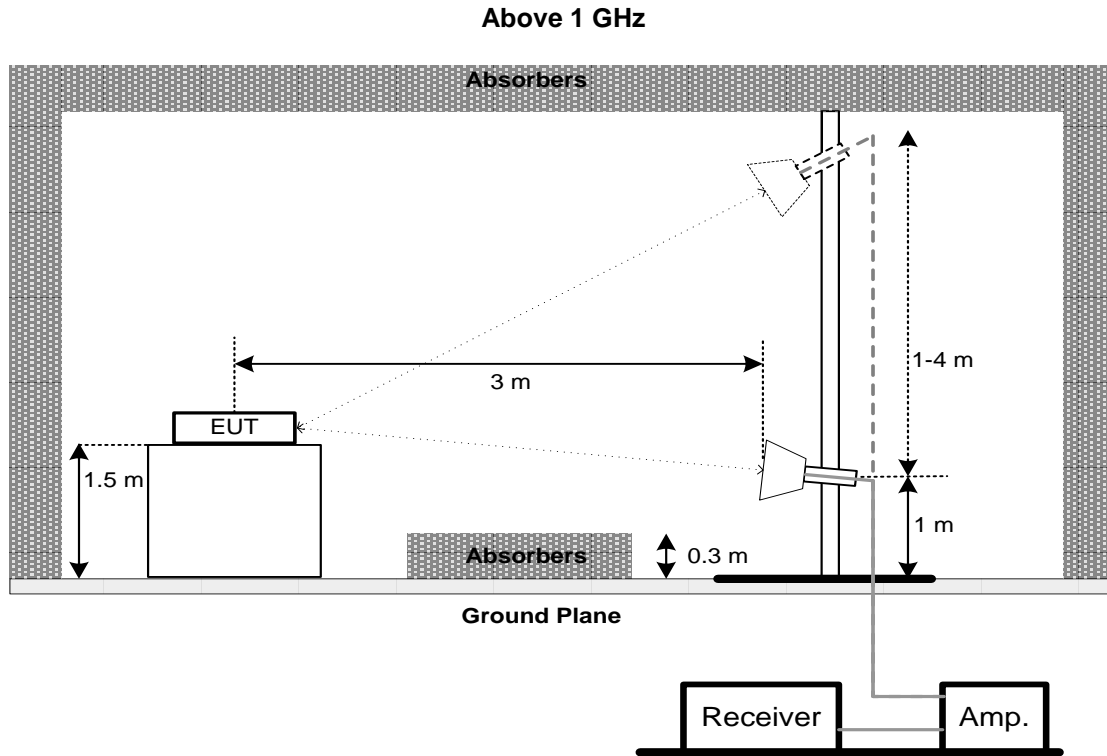
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT - 9 kHz TO 30 MHz

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULT - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

4.8 TEST RESULT - 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	≥ 500 kHz
	99% Emission Bandwidth	-

5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- 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	30 kHz
VBW	100 kHz
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

6.1 LIMIT

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

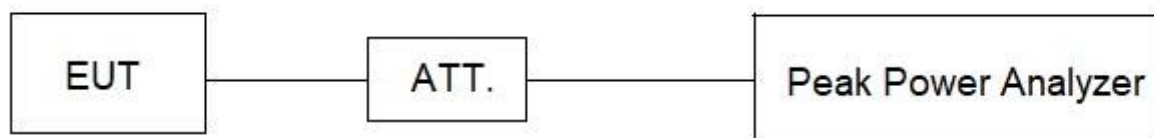
6.2 TEST PROCEDURE

- The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3.1 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 EMISSION

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

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- 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

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

Spectrum Parameters	Setting
Span Frequency	2 MHz (1 Mbps) / 4 MHz (2 Mbps)
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.

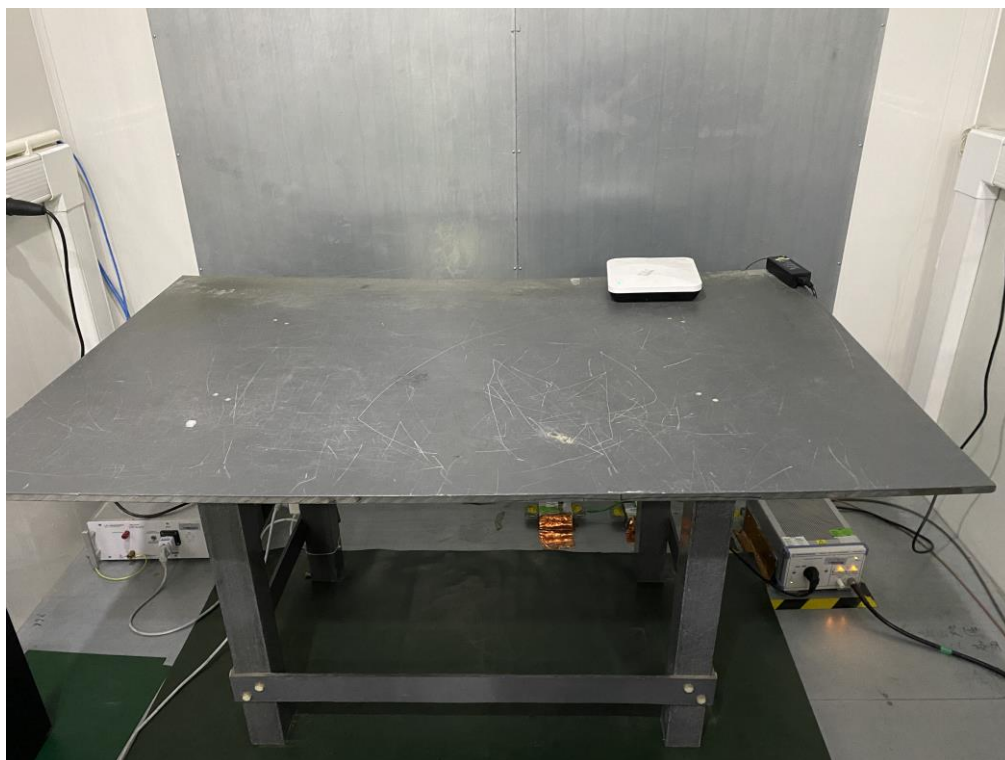
9. MEASUREMENT INSTRUMENTS LIST

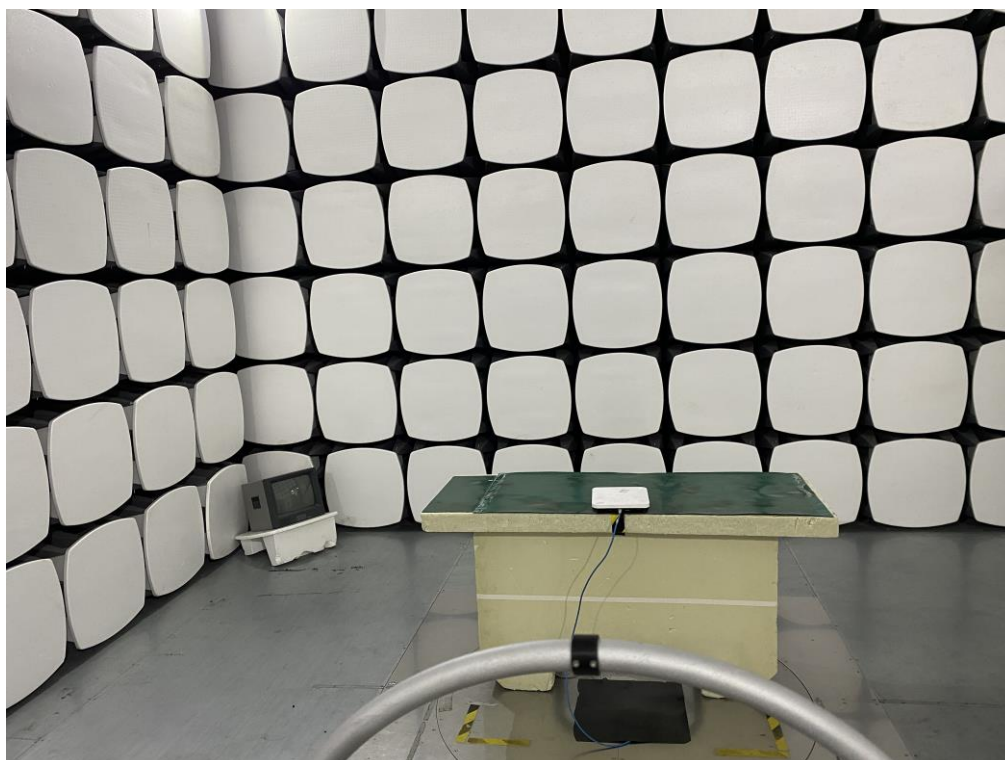
No.	Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Receiver	Rohde&Schwarz	ESCI	1166.5950.03	2022/11/16
2	AMN	Rohde&Schwarz	ENV216	3560.6550.05	2022/11/09
3	AMN	Schwarzbeck	NSLK8127	#829	2022/11/09
4	ECSI RF IN RF Cable	Rohde&Schwarz	RP-X1	\	2022/11/18
5	ECSI RF IN RF Cable	Rohde&Schwarz	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

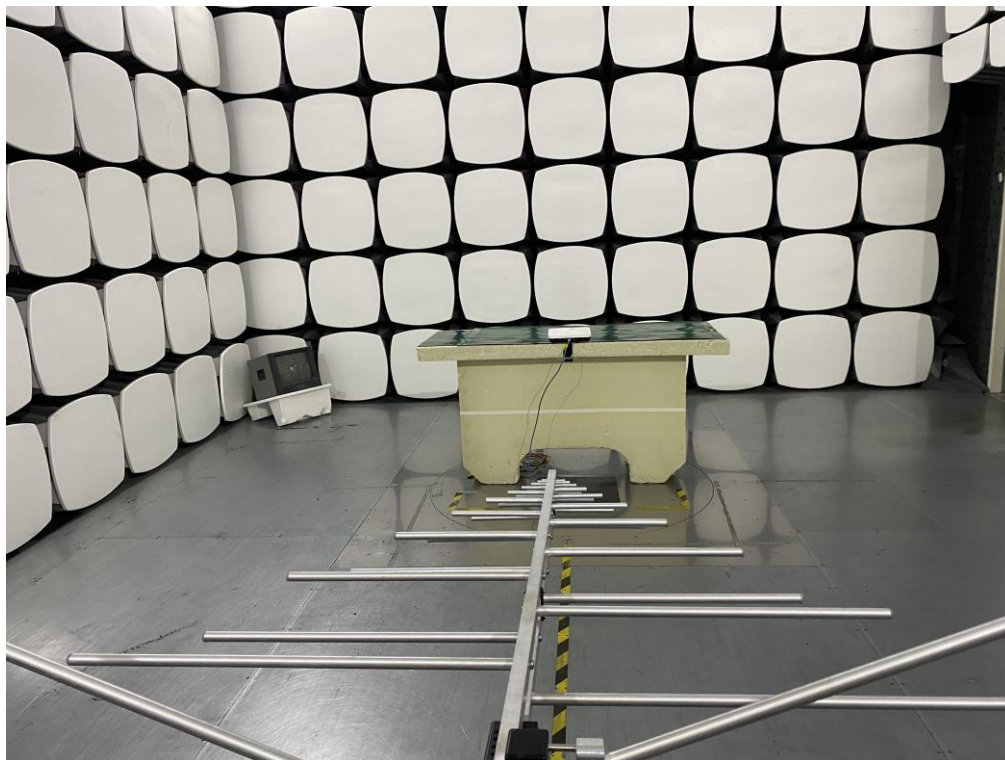
Remark: "N/A" denotes no model name, serial no. or calibration specified.

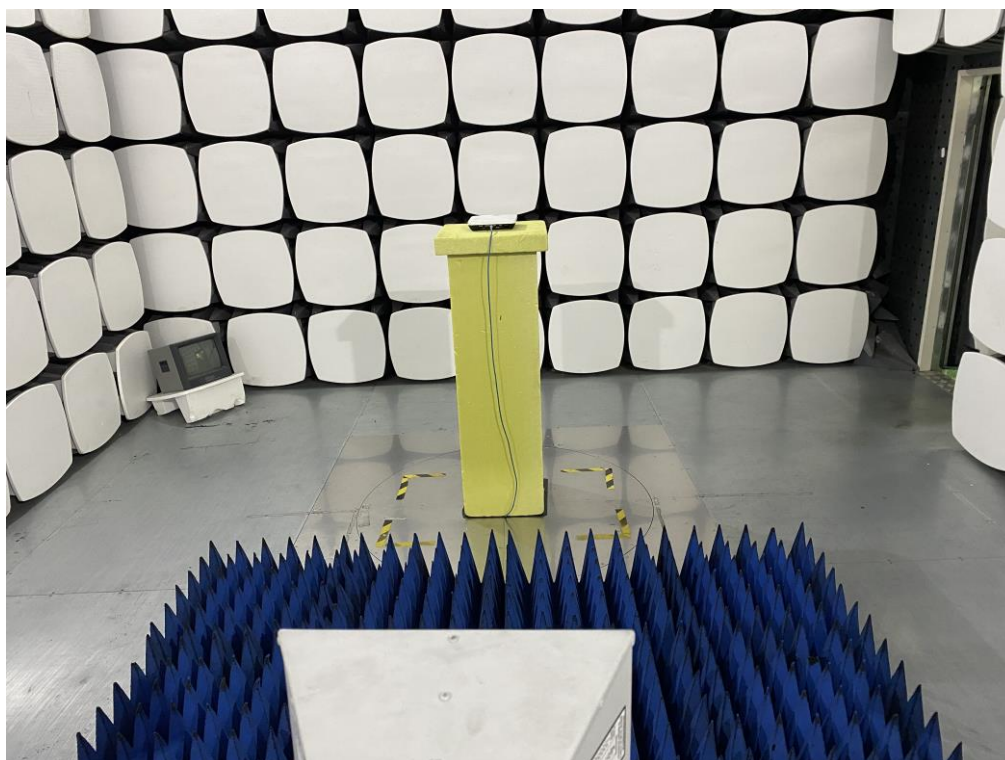
"**" calibration period of equipment list is three year.

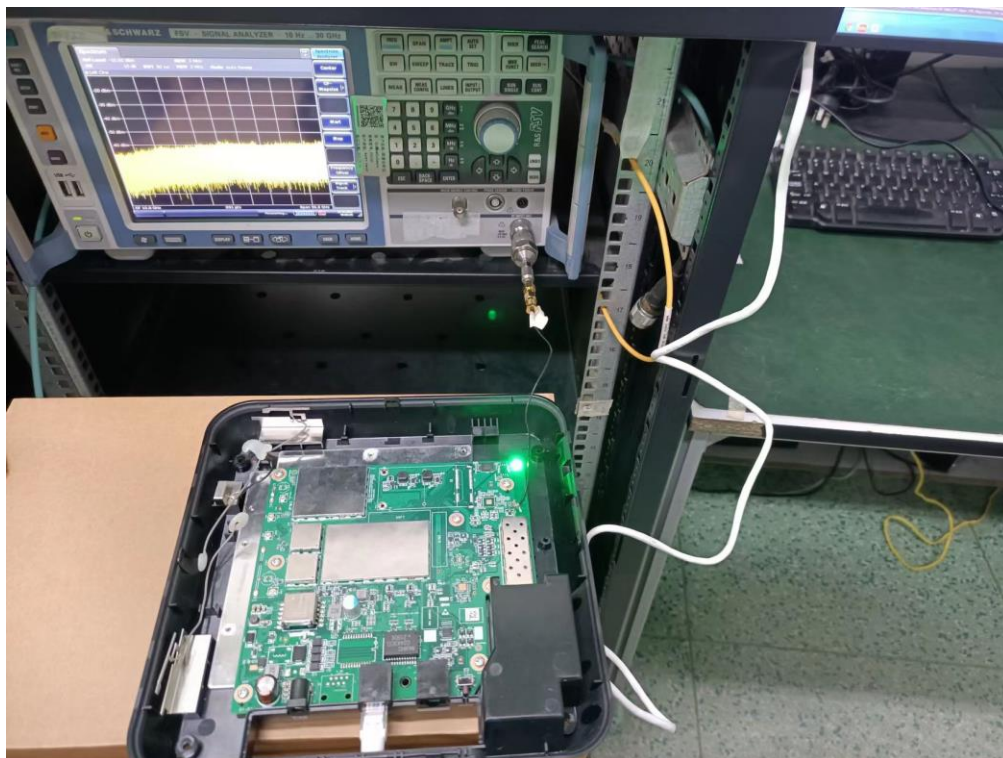
Except * item, all calibration period of equipment list is one year.

10. EUT TEST PHOTO**AC Power Line Conducted Emissions Test Photos**

Radiated Emissions Test Photos**9 kHz to 30 MHz**

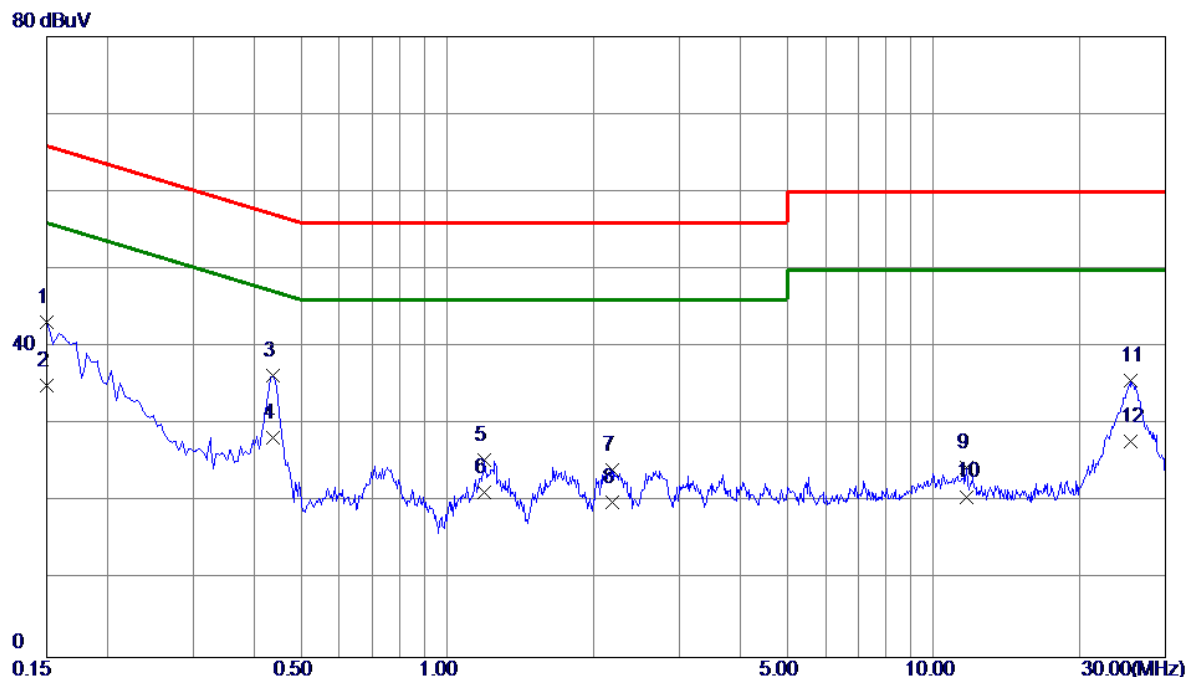
Radiated Emissions Test Photos**30 MHz to 1000 MHz**

Radiated Emissions Test Photos**Above 1 GHz**

Conducted Test Photos

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX Mode_1Mbps Channel 39	Phase	Line
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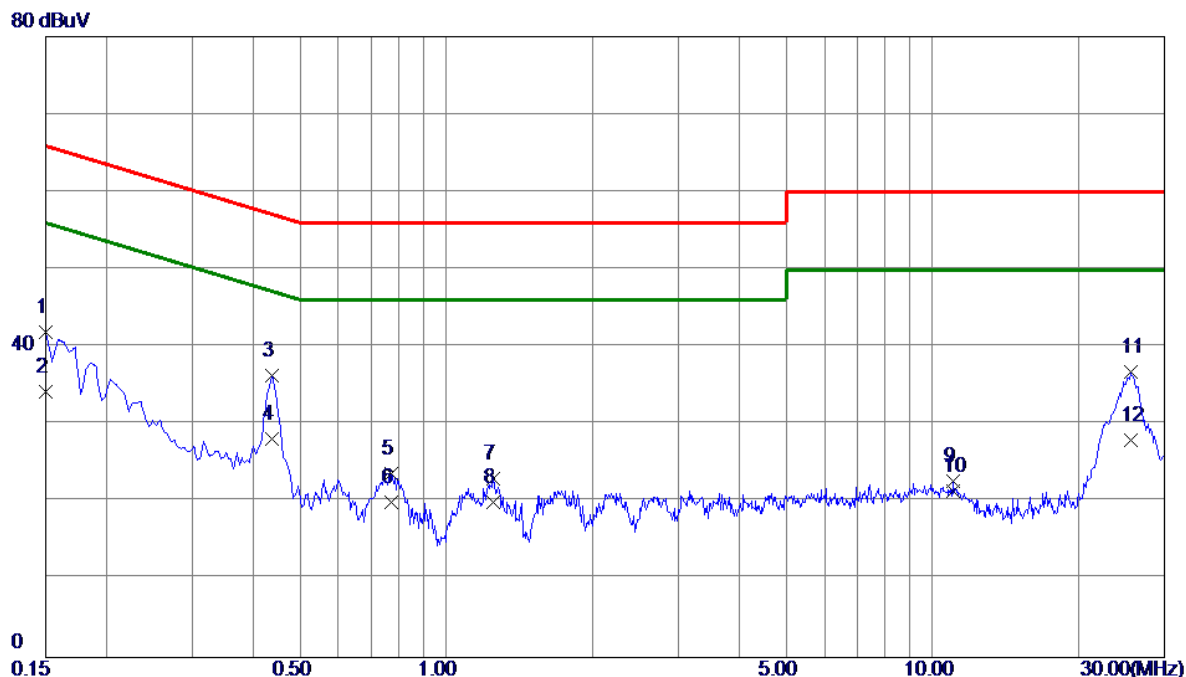
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	33.58	9.65	43.23	66.00	-22.77	QP	
2	0.1500	25.41	9.65	35.06	56.00	-20.94	AVG	
3	0.4380	26.49	9.76	36.25	57.10	-20.85	QP	
4 *	0.4380	18.60	9.76	28.36	47.10	-18.74	AVG	
5	1.1895	15.63	9.84	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 Mode_1Mbps Channel 39	Phase	Neutral
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No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin 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	

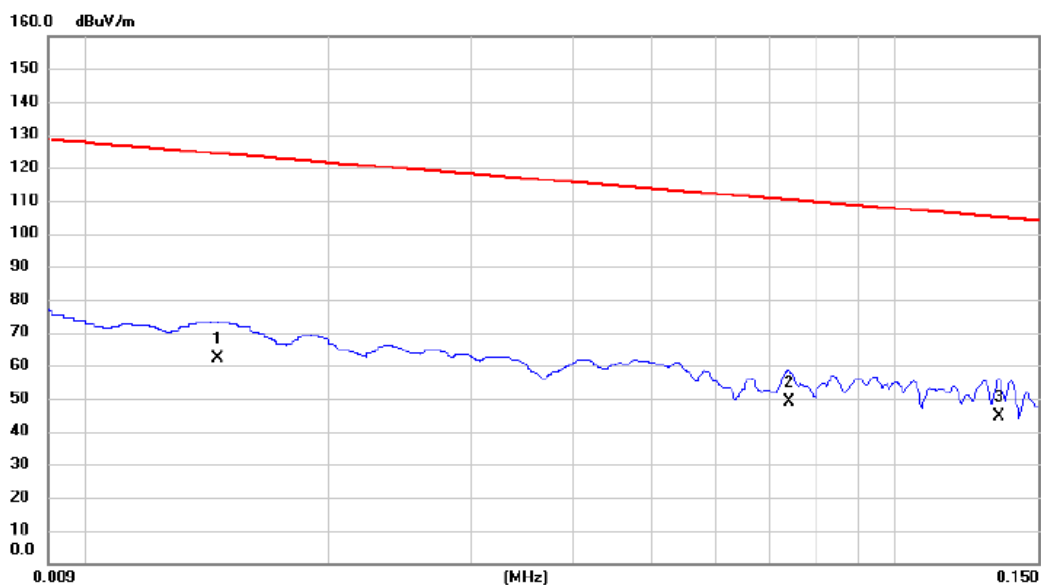
REMARKS:

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

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode	TX Mode_1Mbps Channel 39	Polarization	Ant 0°
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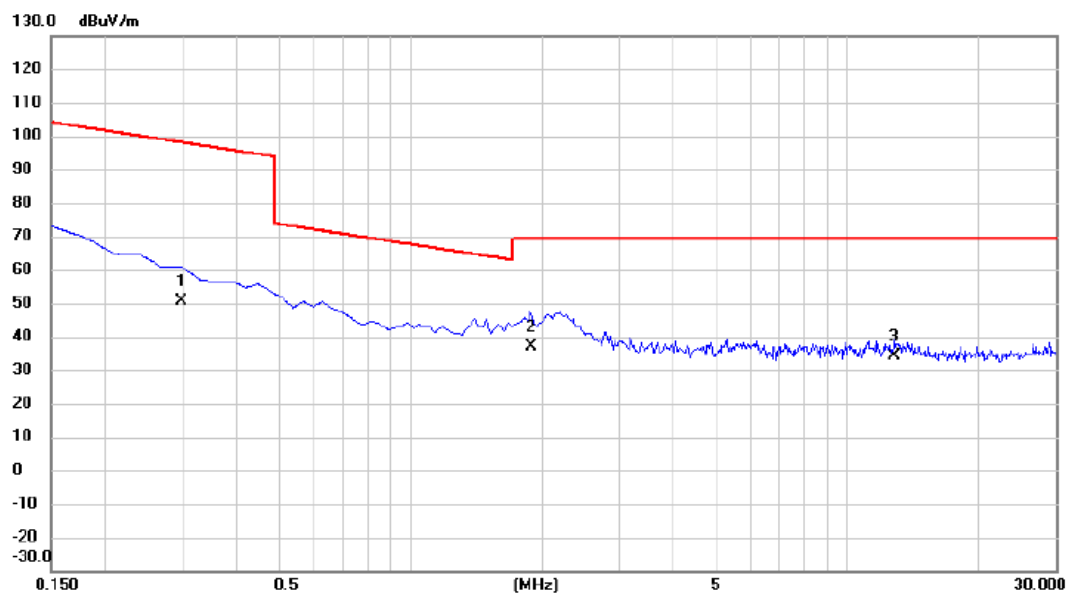


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0146	46.24	15.99	62.23	124.32	-62.09	AVG	
2		0.0740	35.36	13.62	48.98	110.22	-61.24	AVG	
3	*	0.1343	30.89	13.83	44.72	105.05	-60.33	AVG	

REMARKS:

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

Test Mode	TX Mode_1Mbps Channel 39	Polarization	Ant 0°
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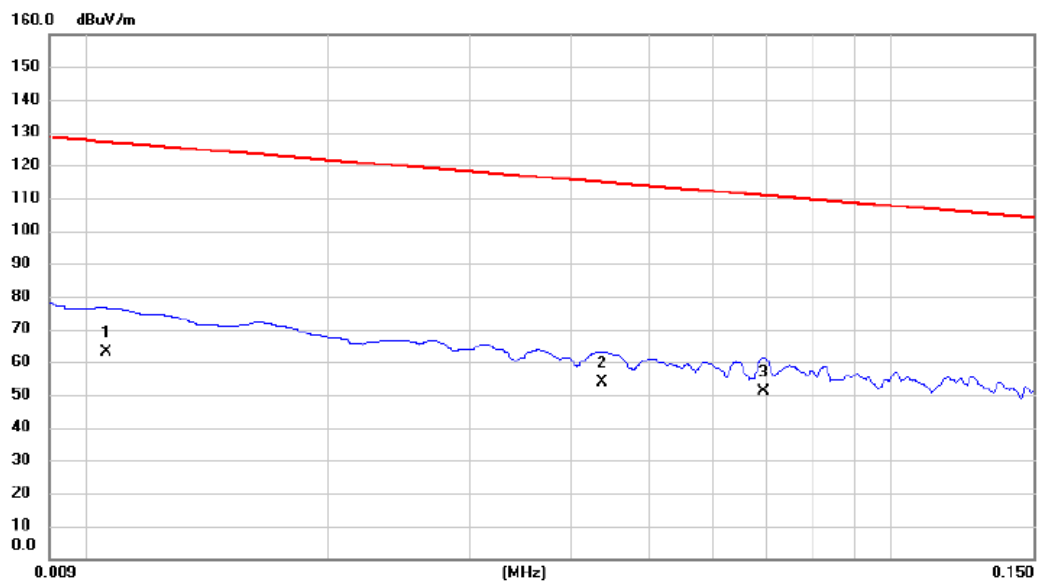
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2993	36.79	13.84	50.63	98.08	-47.45	AVG	
2	*	1.8813	24.52	12.54	37.06	69.54	-32.48	QP	
3		12.8362	21.86	12.25	34.11	69.54	-35.43	QP	

REMARKS:

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

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

Test Mode	TX Mode_1Mbps Channel 39	Polarization	Ant 90°
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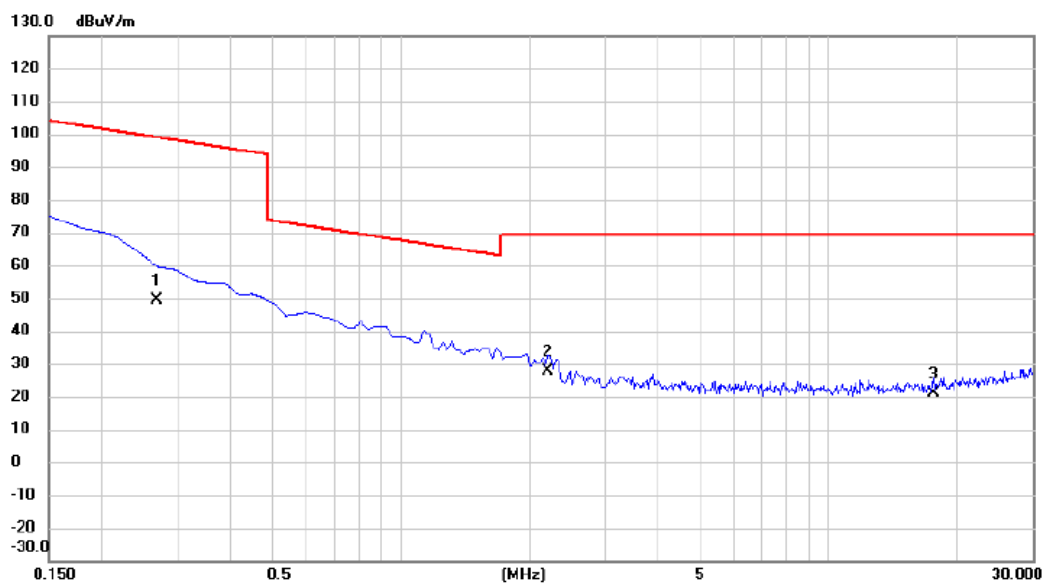


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0106	45.68	17.25	62.93	127.10	-64.17	AVG	
2		0.0437	40.12	13.74	53.86	114.80	-60.94	AVG	
3	*	0.0694	37.54	13.61	51.15	110.78	-59.63	AVG	

REMARKS:

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

Test Mode	TX Mode_1Mbps Channel 39	Polarization	Ant 90°
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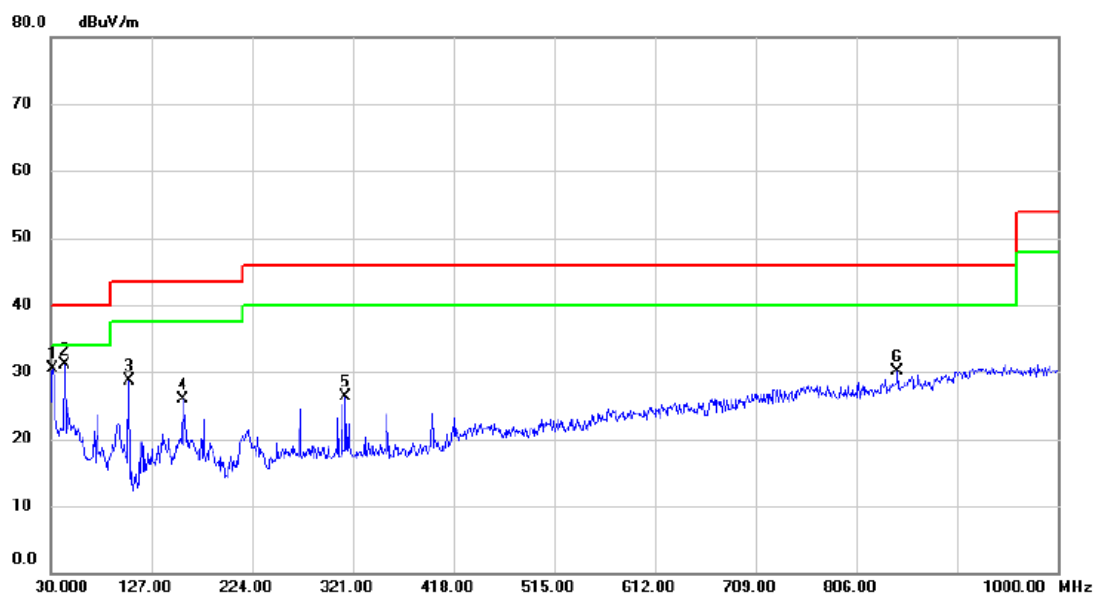
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2694	35.46	13.85	49.31	99.00	-49.69	AVG	
2	*	2.2096	15.45	12.39	27.84	69.54	-41.70	QP	
3		17.5823	8.39	12.65	21.04	69.54	-48.50	QP	

REMARKS:

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX Mode_1Mbps Channel 39	Polarization	Vertical
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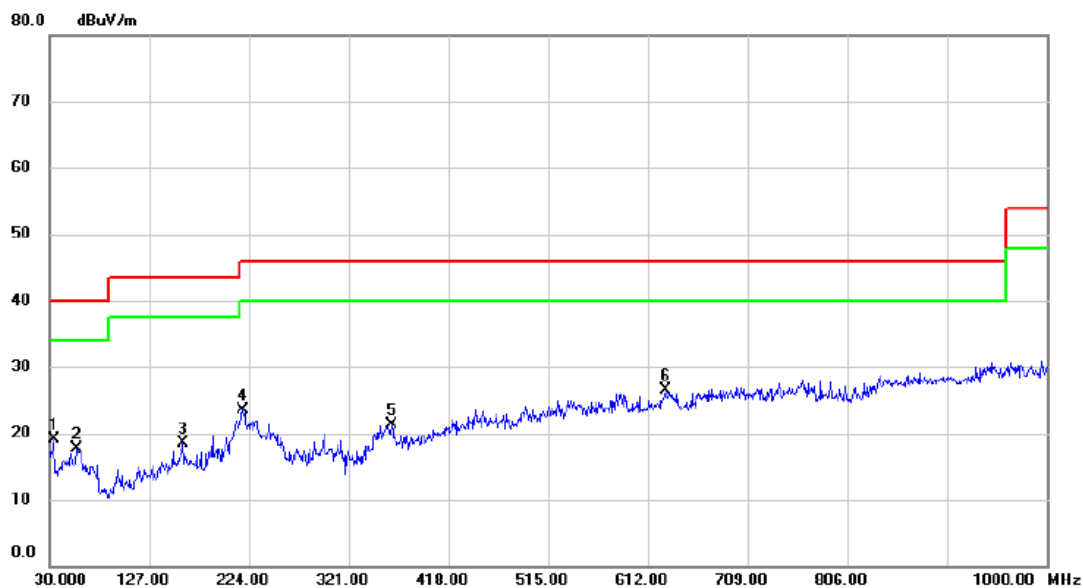


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		31.940	46.41	-15.82	30.59	40.00	-9.41	peak	
2	*	43.580	45.67	-14.57	31.10	40.00	-8.90	peak	
3		105.660	44.89	-16.23	28.66	43.50	-14.84	peak	
4		157.070	38.77	-12.90	25.87	43.50	-17.63	peak	
5		314.210	37.54	-11.18	26.36	46.00	-19.64	peak	
6		845.770	30.62	-0.56	30.06	46.00	-15.94	peak	

REMARKS:

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

Test Mode	TX Mode_1Mbps Channel 39	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		33.880	34.65	-15.60	19.05	40.00	-20.95	peak	
2		56.190	32.35	-14.58	17.77	40.00	-22.23	peak	
3		159.980	31.44	-12.90	18.54	43.50	-24.96	peak	
4		218.180	38.92	-15.42	23.50	46.00	-22.50	peak	
5		362.710	31.42	-10.16	21.26	46.00	-24.74	peak	
6	*	629.460	31.28	-4.68	26.60	46.00	-19.40	peak	

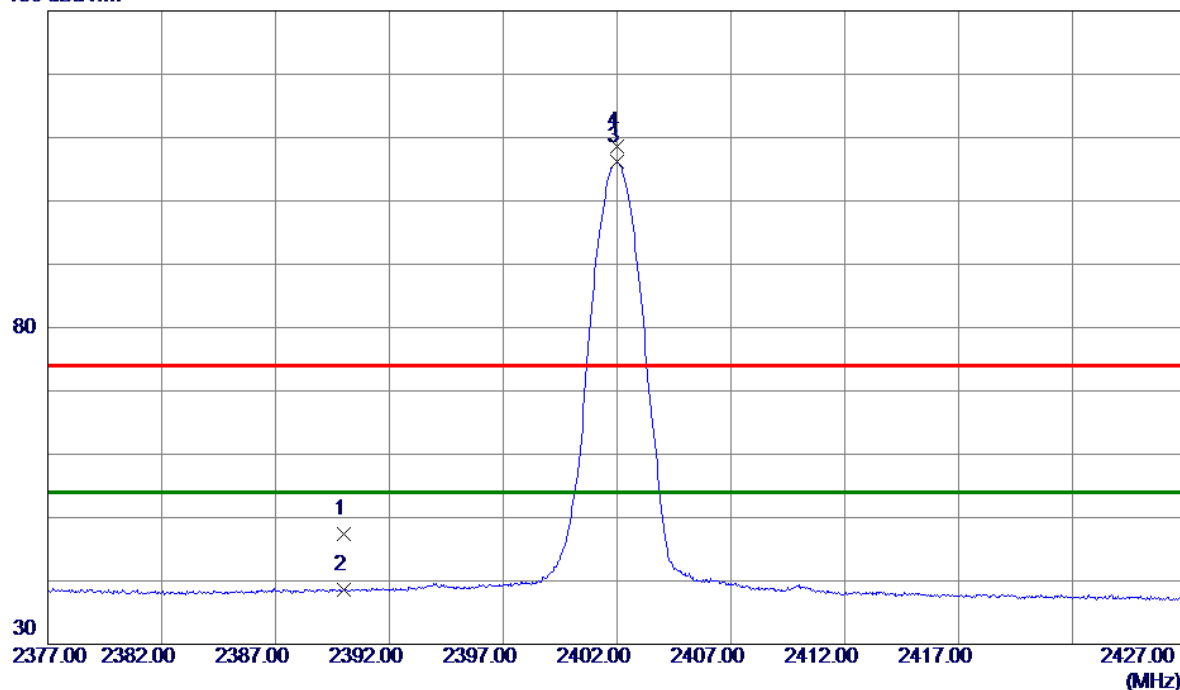
REMARKS:

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

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal
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130 dBuV/m



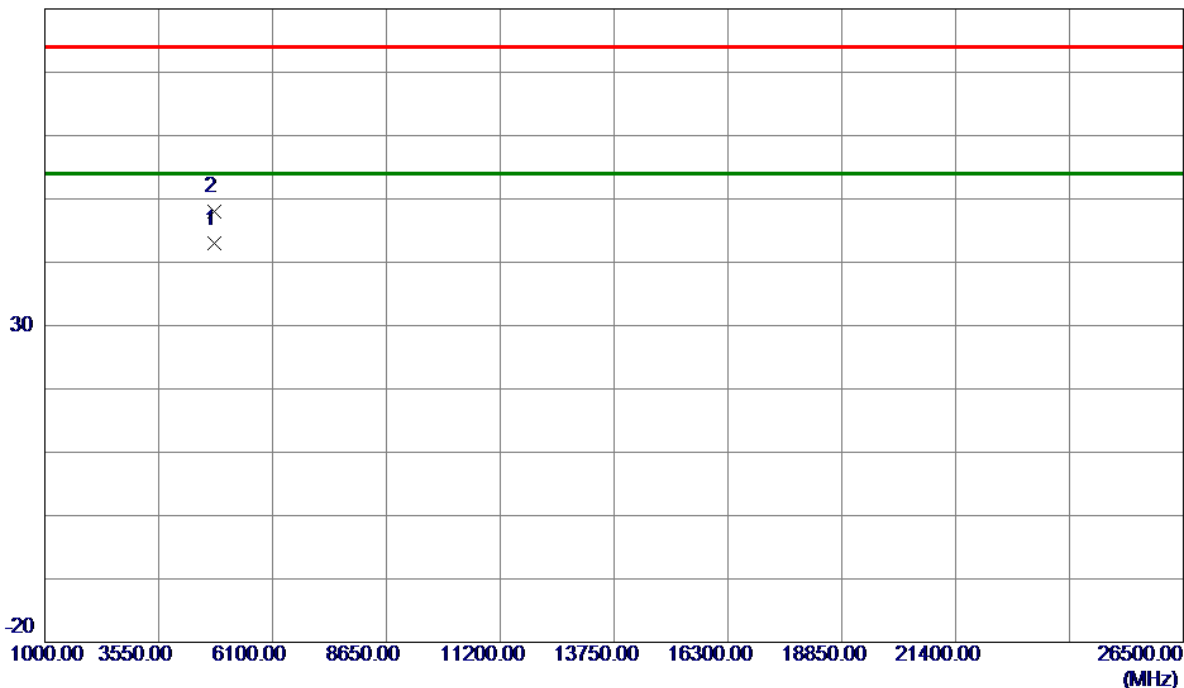
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	42.09	5.37	47.46	74.00	-26.54	Peak	
2	2390.0000	33.25	5.37	38.62	54.00	-15.38	AVG	
3 *	2401.9750	100.75	5.40	106.15	54.00	52.15	AVG	No Limit
4	2402.0000	103.26	5.40	108.66	74.00	34.66	Peak	No Limit

REMARKS:

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

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal
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80 dBuV/m



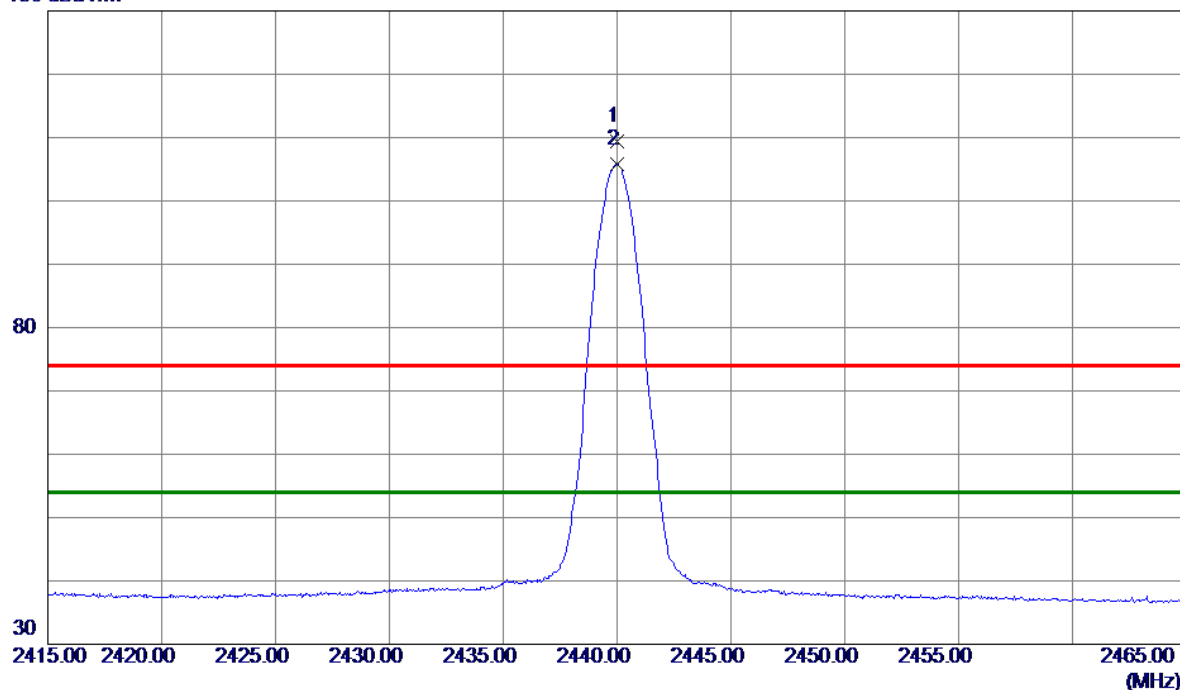
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4803.9700	40.76	2.14	42.90	54.00	-11.10	AVG	
2	4804.4900	45.92	2.14	48.06	74.00	-25.94	Peak	

REMARKS:

- Measurement Value = Reading Level + Correct Factor.
- Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Horizontal
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2439.9750	103.88	5.49	109.37	74.00	35.37	Peak	No Limit
2 *	2439.9750	100.34	5.49	105.83	54.00	51.83	AVG	No Limit

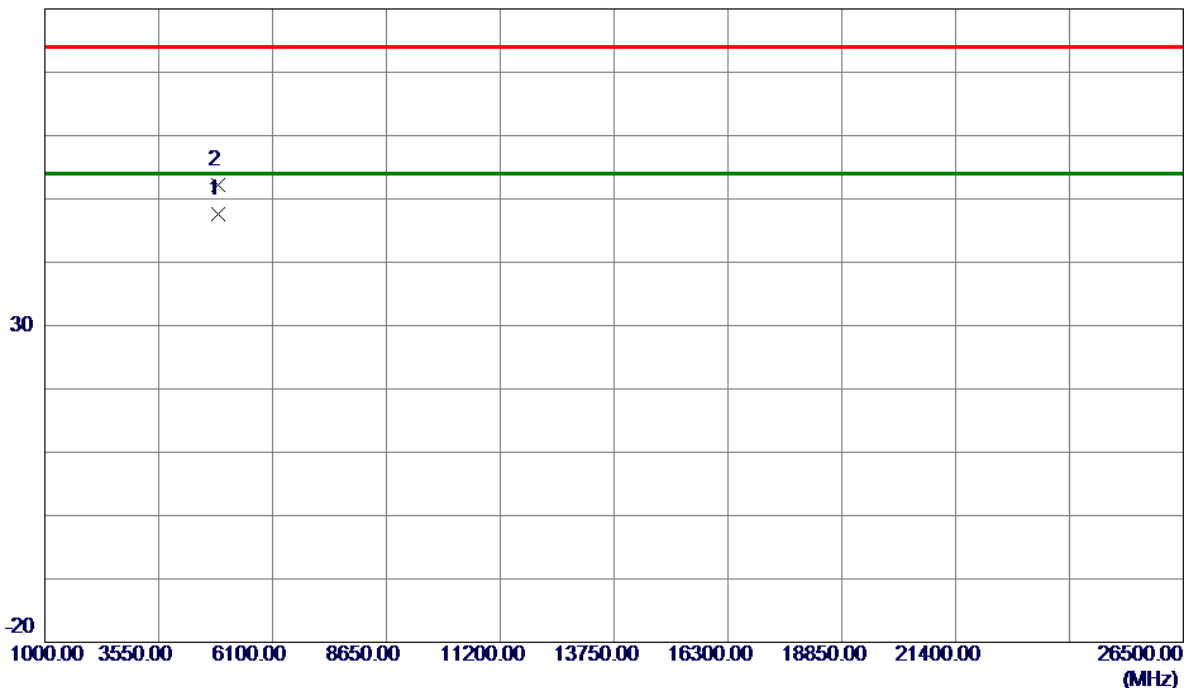
REMARKS:

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

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

Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Horizontal
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80 dBuV/m



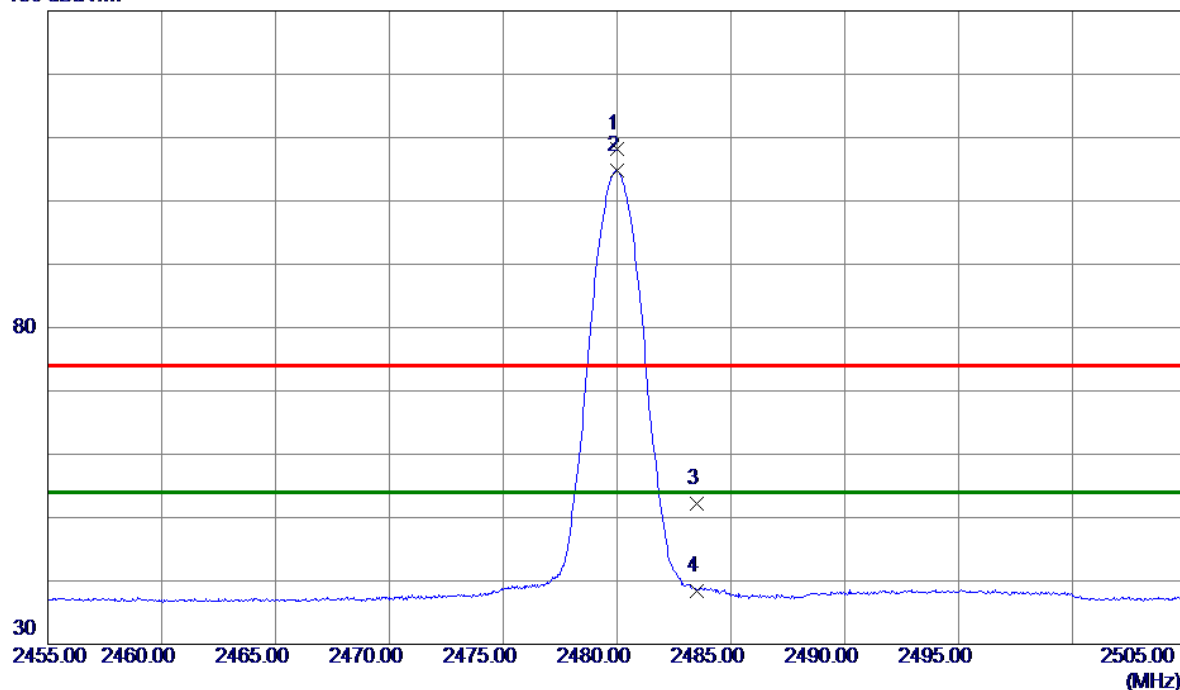
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4879.9200	45.26	2.37	47.63	54.00	-6.37	AVG	
2	4880.0400	49.83	2.37	52.20	74.00	-21.80	Peak	

REMARKS:

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

Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Horizontal
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130 dBuV/m



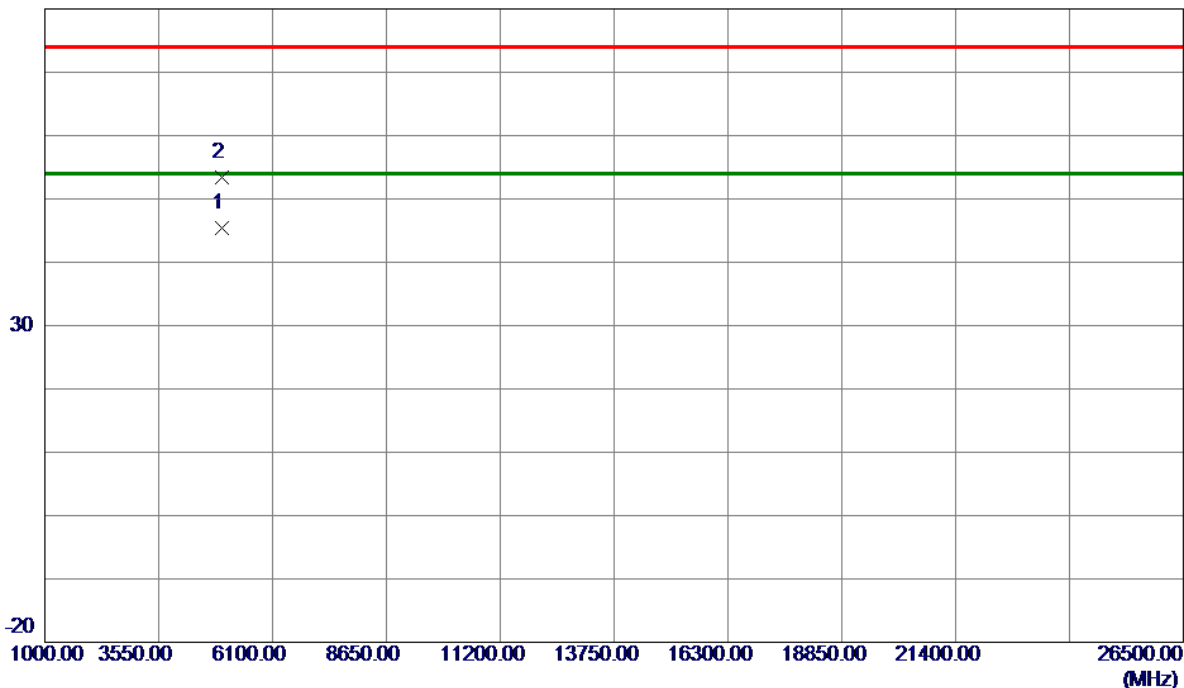
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.9750	102.66	5.59	108.25	74.00	34.25	Peak	No Limit
2 *	2479.9750	99.17	5.59	104.76	54.00	50.76	AVG	No Limit
3	2483.5000	46.55	5.60	52.15	74.00	-21.85	Peak	
4	2483.5000	32.89	5.60	38.49	54.00	-15.51	AVG	

REMARKS:

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

Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Horizontal
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80 dBuV/m



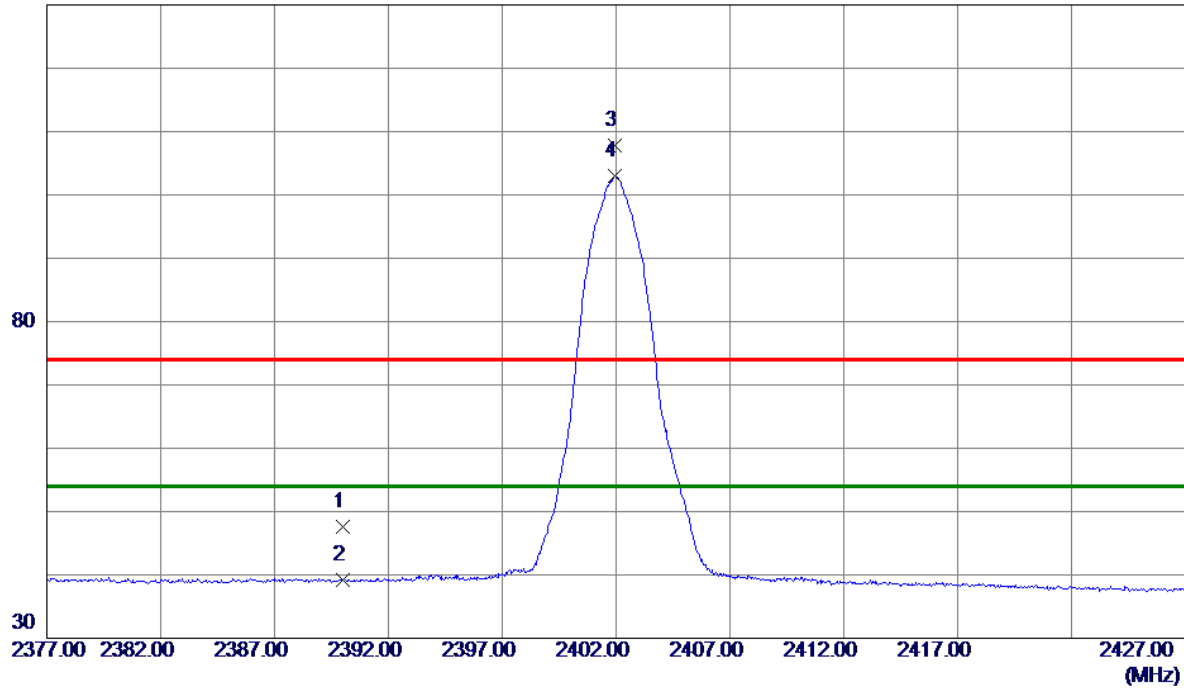
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4959.0299	42.78	2.61	45.39	54.00	-8.61	AVG	
2	4960.0299	50.84	2.61	53.45	74.00	-20.55	Peak	

REMARKS:

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

Test Mode	TX 2402 MHz _CH00_2Mbps	Polarization	Horizontal
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	42.25	5.37	47.62	74.00	-26.38	Peak	
2	2390.0000	33.80	5.37	39.17	54.00	-14.83	AVG	
3	2401.9500	102.48	5.40	107.88	74.00	33.88	Peak	No Limit
4 *	2401.9500	97.51	5.40	102.91	54.00	48.91	AVG	No Limit

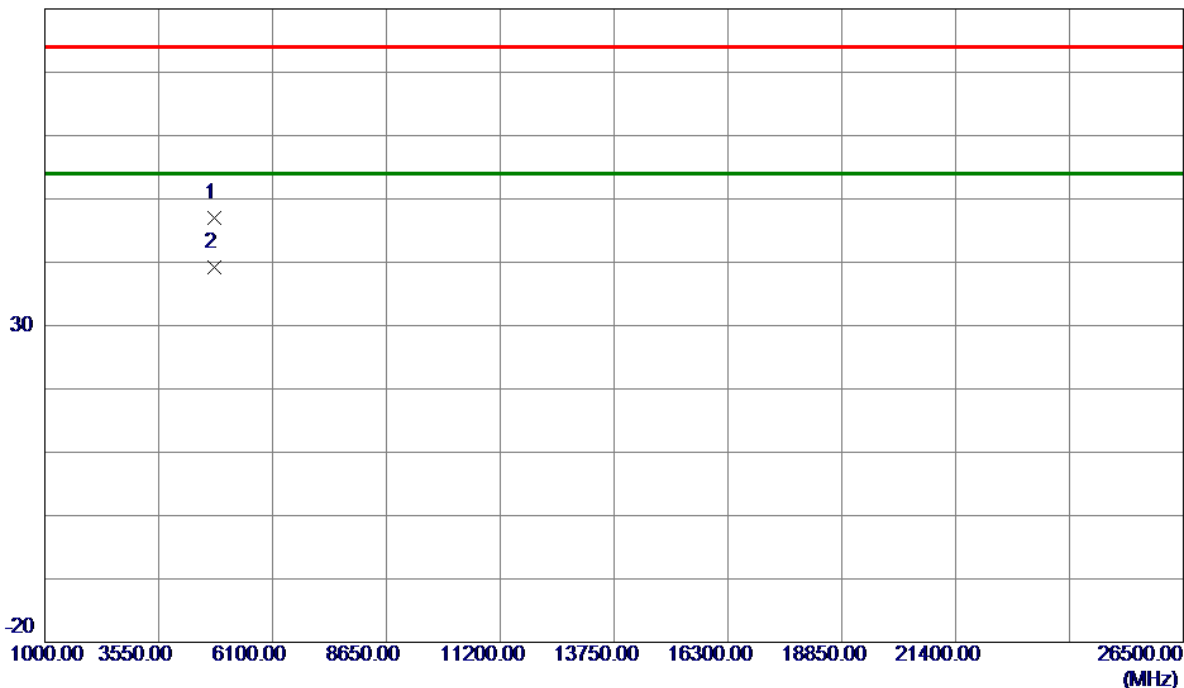
REMARKS:

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

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

Test Mode	TX 2402 MHz _CH00_2Mbps	Polarization	Horizontal
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80 dBuV/m



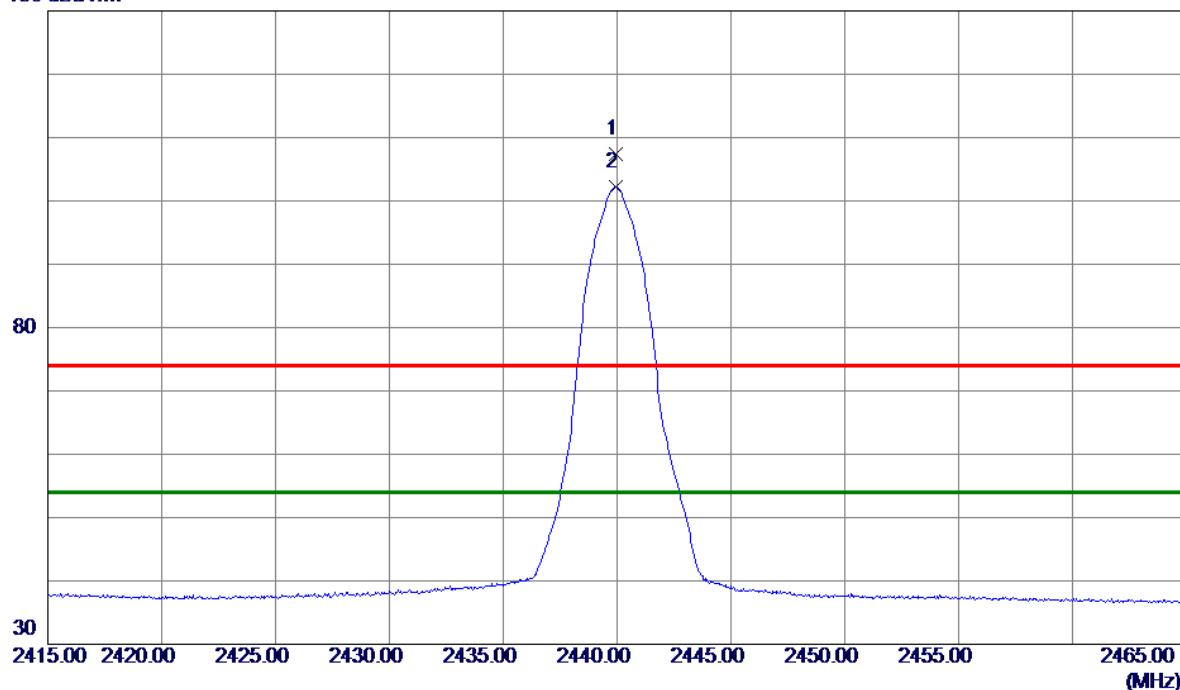
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4802.9400	44.93	2.13	47.06	74.00	-26.94	Peak	
2 *	4803.0600	37.05	2.14	39.19	54.00	-14.81	AVG	

REMARKS:

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

Test Mode	TX 2440 MHz _CH19_2Mbps	Polarization	Horizontal
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2439.9500	101.83	5.49	107.32	74.00	33.32	Peak	No Limit
2 *	2439.9500	96.73	5.49	102.22	54.00	48.22	AVG	No Limit

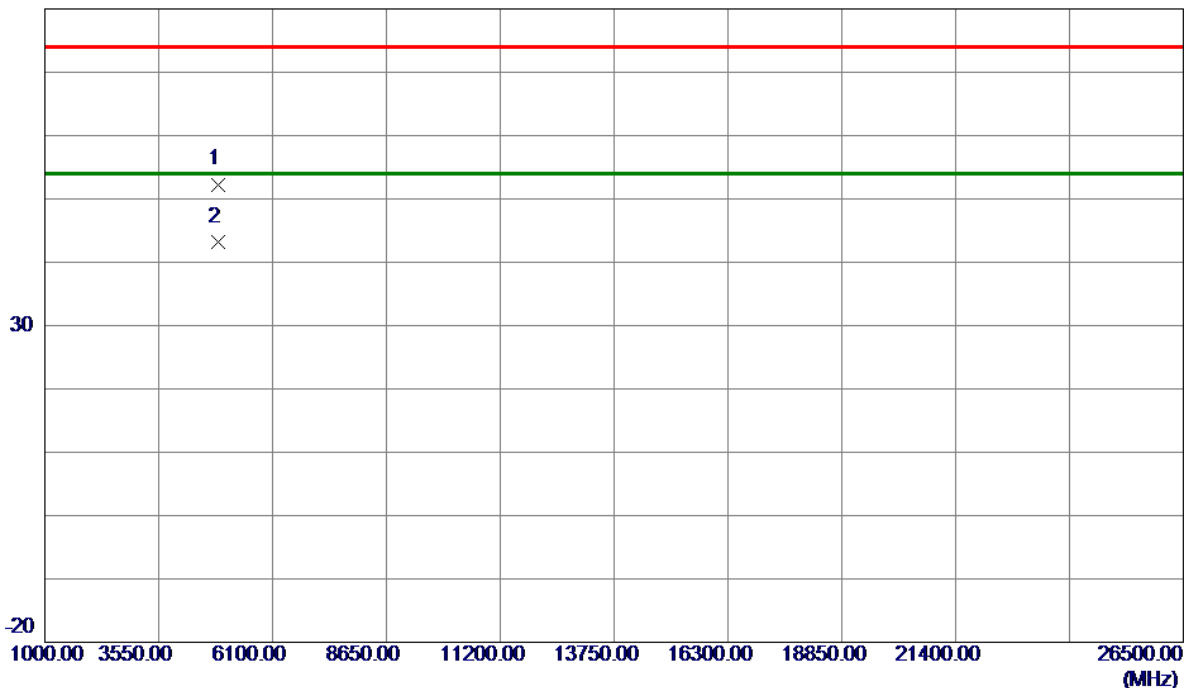
REMARKS:

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

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

Test Mode	TX 2440 MHz _CH19_2Mbps	Polarization	Horizontal
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80 dBuV/m



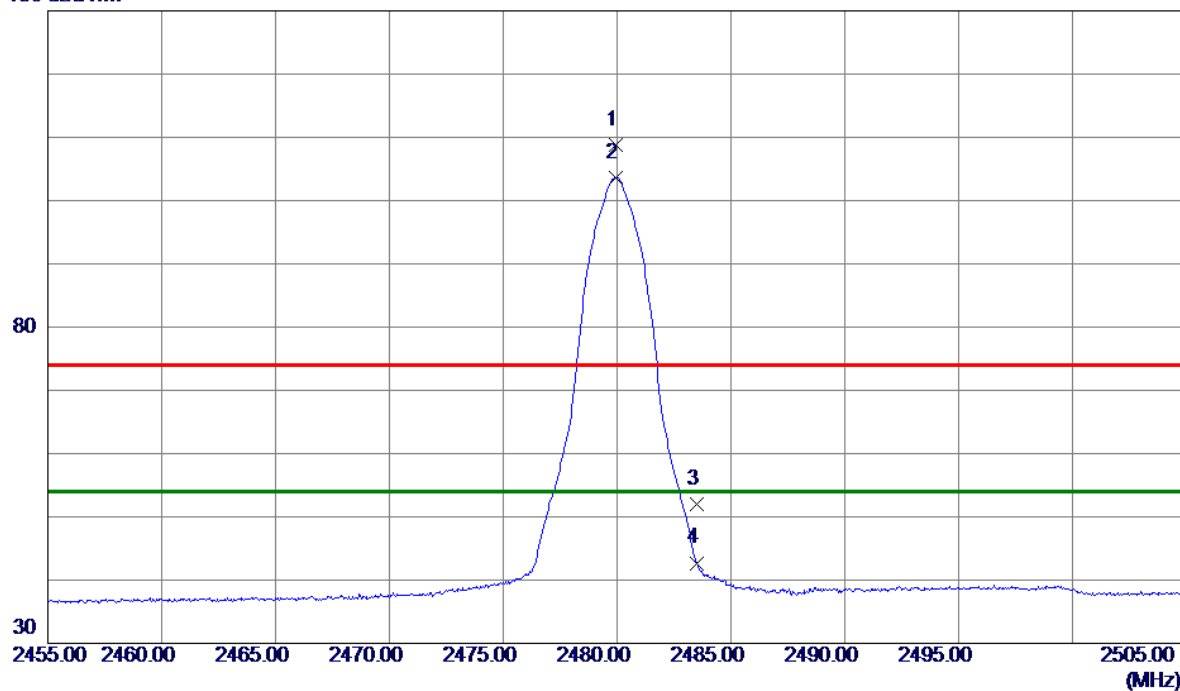
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4878.9400	49.94	2.36	52.30	74.00	-21.70	Peak	
2 *	4879.0600	40.83	2.36	43.19	54.00	-10.81	AVG	

REMARKS:

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

Test Mode	TX 2480 MHz _CH39_2Mbps	Polarization	Horizontal
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.9500	103.19	5.59	108.78	74.00	34.78	Peak	No Limit
2 *	2479.9500	98.08	5.59	103.67	54.00	49.67	AVG	No Limit
3	2483.5000	46.44	5.60	52.04	74.00	-21.96	Peak	
4	2483.5000	37.10	5.60	42.70	54.00	-11.30	AVG	

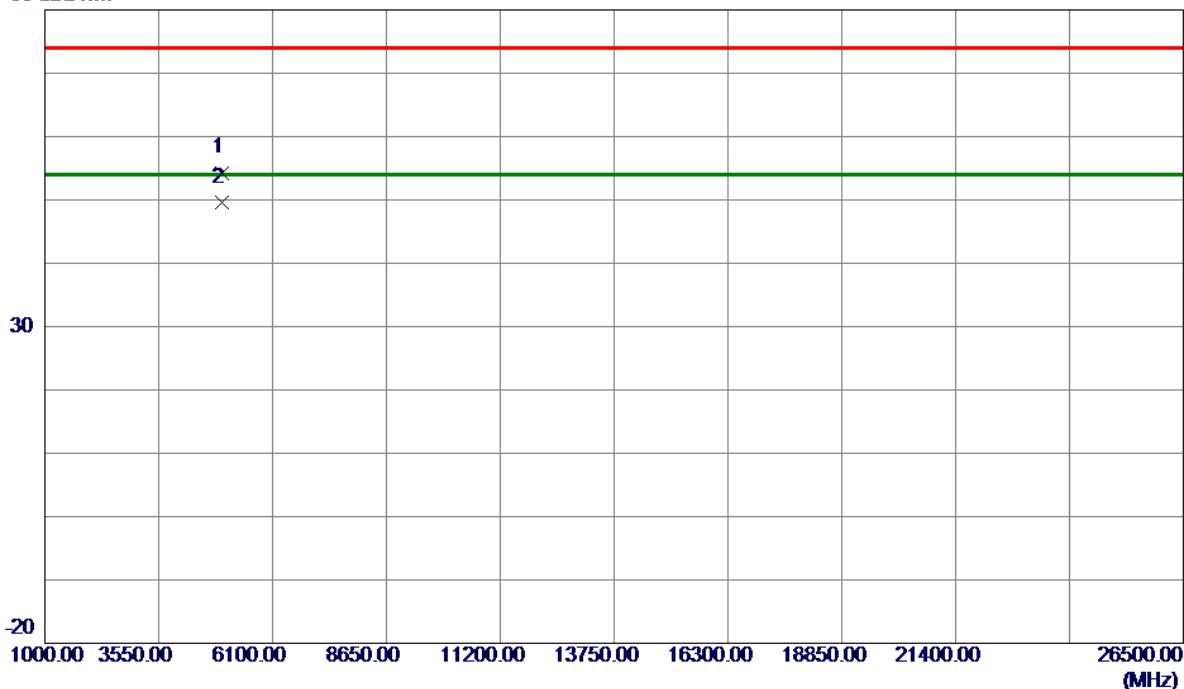
REMARKS:

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

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

Test Mode	TX 2480 MHz _CH39_2Mbps	Polarization	Horizontal
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80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4959.4600	51.69	2.61	54.30	74.00	-19.70	Peak	
2 *	4959.8800	47.06	2.61	49.67	54.00	-4.33	AVG	

REMARKS:

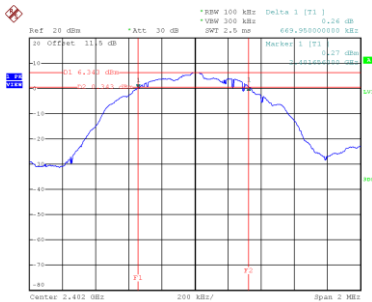
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

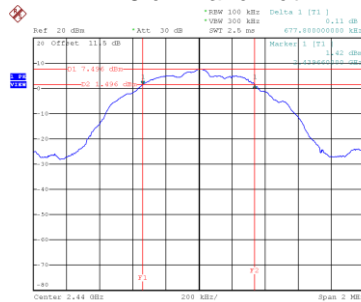
Test Mode	TX Mode _1Mbps
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	0.670	1.040	0.5	Pass
19	2440	0.678	1.036	0.5	Pass
39	2480	0.664	1.036	0.5	Pass

CH00

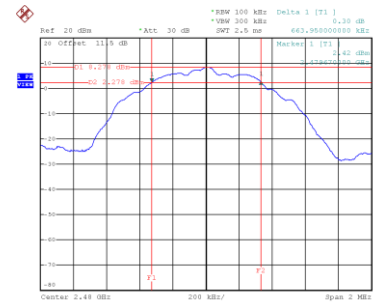


Date: 7.JUN.2022 15:44:01

CH19
6 dB Bandwidth


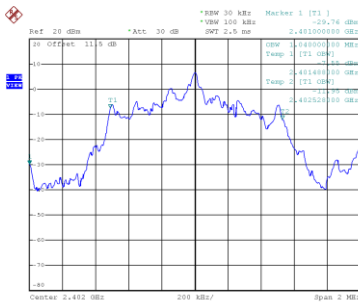
Date: 7.JUN.2022 15:44:54

CH39

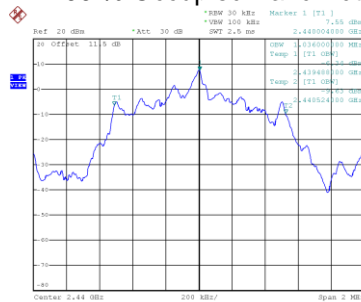


Date: 7.JUN.2022 15:46:04

99 % Occupied Bandwidth



Date: 7.JUN.2022 15:43:11



Date: 7.JUN.2022 15:45:00

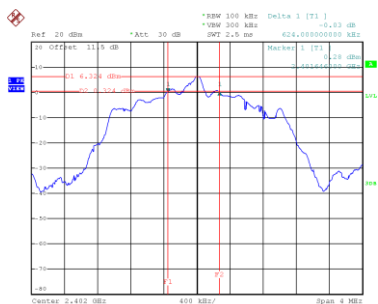


Date: 7.JUN.2022 15:46:10

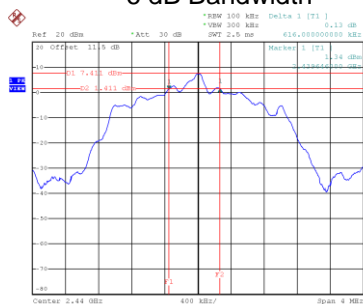
Test Mode	TX Mode _2Mbps
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	0.624	2.040	0.5	Pass
19	2440	0.616	2.056	0.5	Pass
39	2480	0.624	2.048	0.5	Pass

CH00

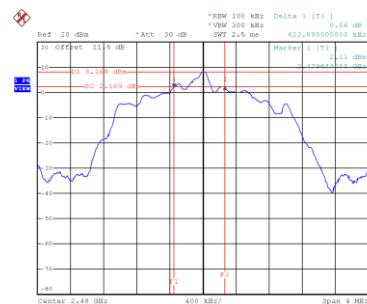


Date: 7.JUN.2022 15:58:28

CH19
6 dB Bandwidth


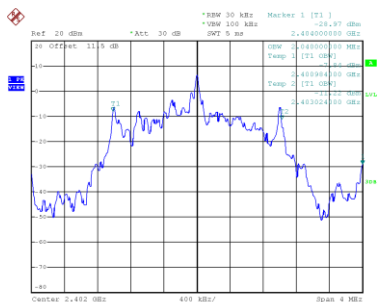
Date: 7.JUN.2022 15:59:23

CH39

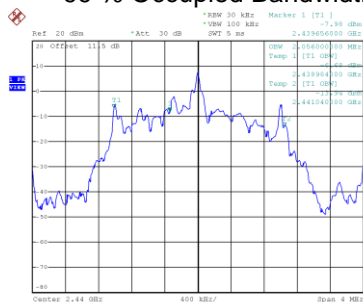


Date: 7.JUN.2022 16:00:26

99 % Occupied Bandwidth



Date: 7.JUN.2022 15:57:52



Date: 7.JUN.2022 15:59:29



Date: 7.JUN.2022 16:00:32

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX Mode _1Mbps
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
00	2402	4.57	2.01	6.58	30.00	1.0000	Complies
19	2440	5.43	2.01	7.44	30.00	1.0000	Complies
38	2480	6.34	2.01	8.35	30.00	1.0000	Complies

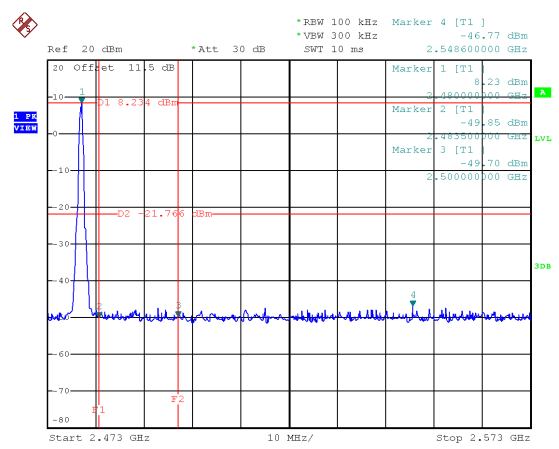
Test Mode	TX Mode _2Mbps
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
00	2402	1.81	4.77	6.58	30.00	1.0000	Complies
19	2440	2.63	4.77	7.40	30.00	1.0000	Complies
38	2480	3.53	4.77	8.30	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSION

TX Mode _1Mbps

Bandedge CH39 (Upper)



Date: 7.JUN.2022 15:49:00

The three screenshots of the Spectrum Analyzer window show the following configurations and results:

- Left Screenshot:**
 - Frequency Range: 297 MHz to 302 MHz (Start 297 MHz, Stop 302 MHz).
 - Resolution Bandwidth (RBW): 100 kHz.
 - Video Bandwidth (VBW): 300 kHz.
 - Span: 5 MHz.
 - Center Frequency: 300 MHz.
 - Reference Level: -13.053 dBm.
 - Signal: A single, sharp, strong signal peak is visible at approximately 300 MHz.
- Middle Screenshot:**
 - Frequency Range: 3.0 GHz to 3.2 GHz (Start 3.0 GHz, Stop 3.2 GHz).
 - Resolution Bandwidth (RBW): 100 kHz.
 - Video Bandwidth (VBW): 300 kHz.
 - Span: 200 MHz.
 - Center Frequency: 3.1 GHz.
 - Reference Level: -13.053 dBm.
 - Signal: A single, sharp, strong signal peak is visible at approximately 3.1 GHz.
- Right Screenshot:**
 - Frequency Range: 25.9 GHz to 26.5 GHz (Start 25.9 GHz, Stop 26.5 GHz).
 - Resolution Bandwidth (RBW): 100 kHz.
 - Video Bandwidth (VBW): 300 kHz.
 - Span: 600 MHz.
 - Center Frequency: 26.2 GHz.
 - Reference Level: -13.053 dBm.
 - Signal: A noisy signal is visible across the entire frequency range, with no single dominant peak.

Date: 7 JUN 2022 15:53:07

The figure consists of three screenshots of a spectrum analyzer, labeled 1, 2, and 3, showing the frequency response of a 100 kHz CW signal. Each screenshot displays a plot of power (dBm) versus frequency (GHz).

- Screenshot 1:** Shows a single sharp peak at 2.11799000 GHz. The peak is labeled with its frequency and power: 2.11799000 GHz, -43.83 dBm. The plot shows a flat noise floor at -22.264 dBm. The x-axis ranges from 2.0 GHz to 2.2 GHz, and the y-axis ranges from -50 dBm to 10 dBm.
- Screenshot 2:** Shows a peak at 2.11799000 GHz and a noise floor at -22.264 dBm. The peak is labeled with its frequency and power: 2.11799000 GHz, -43.84 dBm. The plot shows a flat noise floor at -22.264 dBm. The x-axis ranges from 2.0 GHz to 2.2 GHz, and the y-axis ranges from -50 dBm to 10 dBm.
- Screenshot 3:** Shows a peak at 2.11799000 GHz and a noise floor at -22.264 dBm. The peak is labeled with its frequency and power: 2.11799000 GHz, -43.85 dBm. The plot shows a flat noise floor at -22.264 dBm. The x-axis ranges from 2.0 GHz to 2.2 GHz, and the y-axis ranges from -50 dBm to 10 dBm.

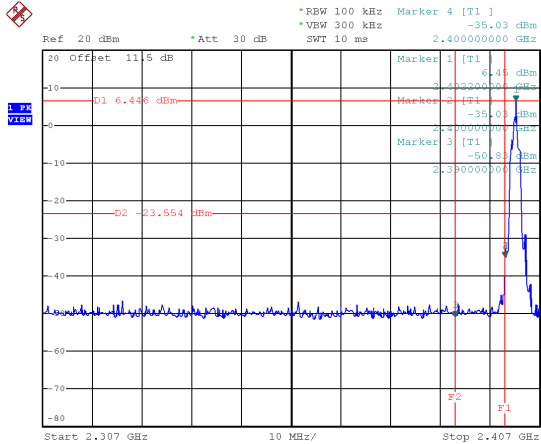
Date: 7.JUN.2022 15:54:13

The figure consists of three side-by-side screenshots of a spectrum analyzer, each showing the frequency response of a 100 kHz sine wave at a different carrier frequency: 297 MHz, 1.2 GHz, and 26.5 GHz. Each plot has a vertical axis for power (dBm) ranging from -50 to 10 and a horizontal axis for frequency (MHz) ranging from 297 to 300 MHz for the first plot, 1.2 to 1.205 GHz for the second, and 26.5 to 26.505 GHz for the third. The plots are labeled 'Ref 20 dBm', 'Att 20 dB', and 'SWT 200 ne'. A red horizontal line indicates the noise floor at -21.7 dBm. A sharp peak is visible at the carrier frequency in each plot, reaching approximately -10 dBm. The plots are also labeled with 'BW 100 kHz', 'Marker 1 [F1]', and 'VMW 100 kHz'.

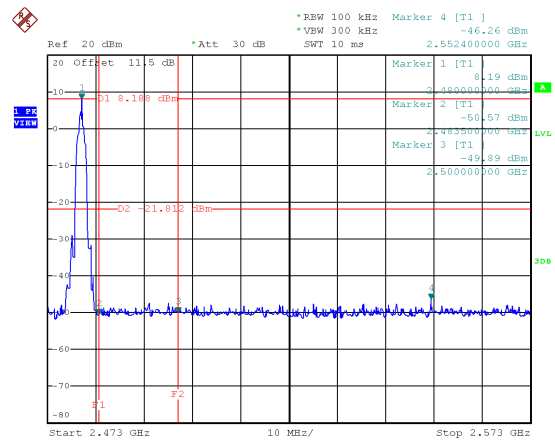
Date: 7.JUN.2022 15:55:07

Test Mode TX Mode _2Mbps

Bandedge CH00 (Lower)



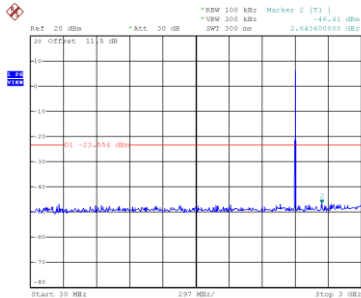
Bandedge CH39 (Upper)



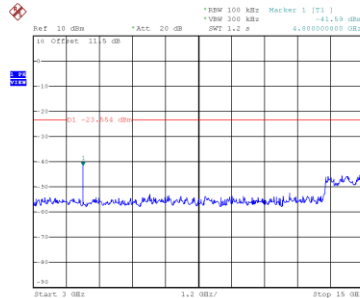
Date: 7.JUN.2022 16:01:10

Date: 7.JUN.2022 16:02:16

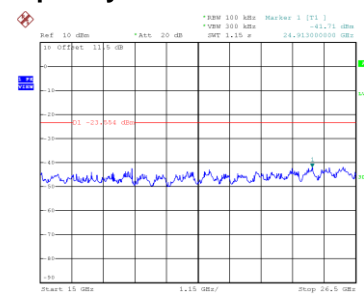
CH00 – 10th Harmonic of the fundamental frequency



Date: 7.JUN.2022 16:04:53

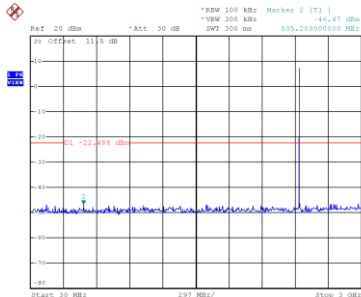


Date: 7.JUN.2022 16:05:01

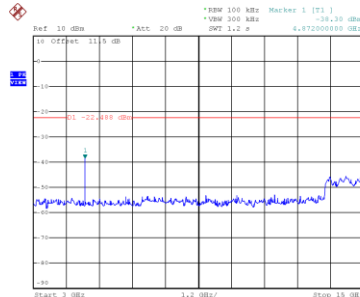


Date: 7.JUN.2022 16:05:09

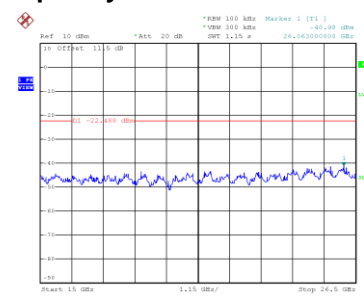
CH19 – 10th Harmonic of the fundamental frequency



Date: 7.JUN.2022 16:05:16

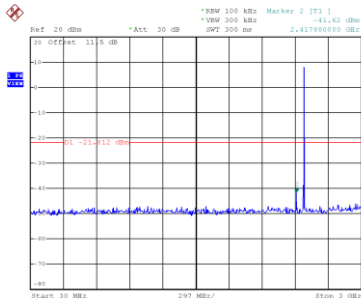


Date: 7.JUN.2022 16:05:44

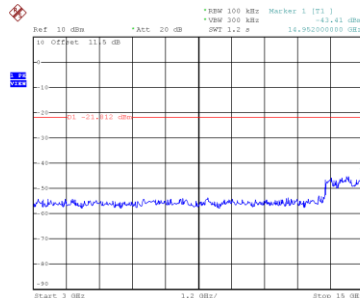


Date: 7.JUN.2022 16:05:52

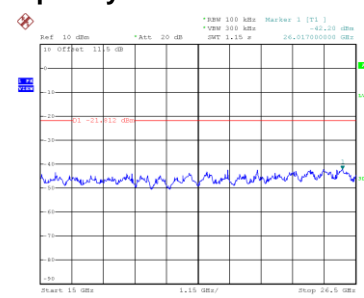
CH39 – 10th Harmonic of the fundamental frequency



Date: 7.JUN.2022 16:06:17



Date: 7.JUN.2022 16:06:25



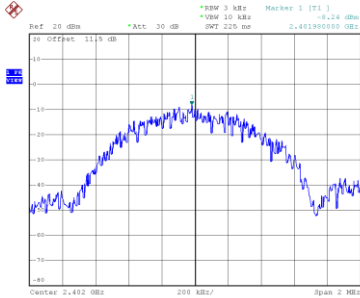
Date: 7.JUN.2022 16:06:33

APPENDIX H - POWER SPECTRAL DENSITY

Test Mode	TX Mode _1Mbps
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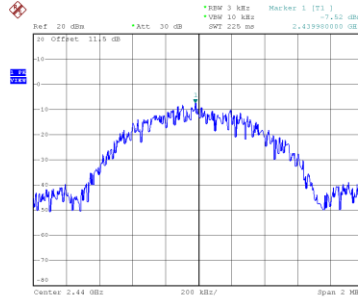
Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	-8.24	8.00	Pass
19	2440	-7.52	8.00	Pass
39	2480	-6.89	8.00	Pass

CH00



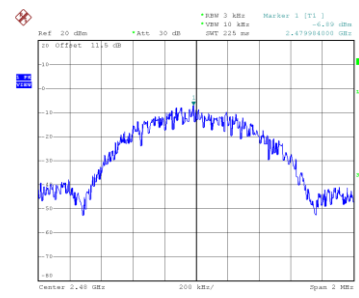
Date: 14.JUL.2022 19:20:34

CH19



Date: 14.JUL.2022 19:18:30

CH39

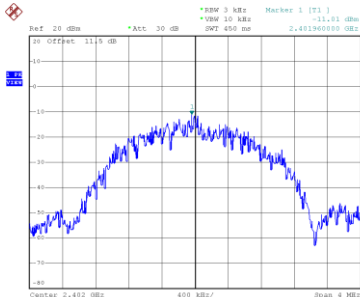


Date: 14.JUL.2022 19:18:54

Test Mode	TX Mode _2Mbps
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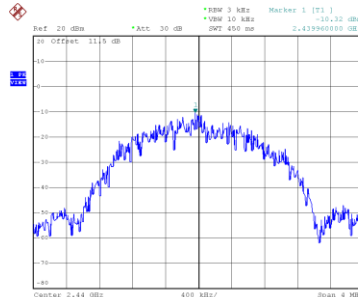
Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	-11.01	8.00	Pass
19	2440	-10.32	8.00	Pass
39	2480	-9.86	8.00	Pass

CH00



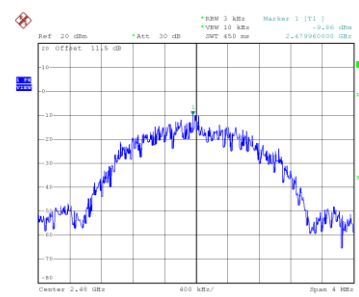
Date: 14.JUL.2022 19:19:23

CH19



Date: 14.JUL.2022 19:19:48

CH39



Date: 14.JUL.2022 19:20:10

End of Test Report