

TEST REPORT

Applicant : Shenzhen Qiuyu Electronic Co., Ltd
Address : 3F, Building E, Hongzhuyongqi Technology Park, Lezhujiao village,
Xixiang town, Bao'an district, Shenzhen, China
Manufacturer : Shenzhen Qiuyu Electronic Co., Ltd
Address : 3F, Building E, Hongzhuyongqi Technology Park, Lezhujiao village,
Xixiang town, Bao'an district, Shenzhen, China
Product Name : Smart Sync Calendar WI-FI ENABLED
Model Number : CF-1561P, WF185, CF-1001P CF-1563, CF-2152P, RCF-1561P,
CF-1568M, CF-2152W, CF-2705W, CF1566W
Trademark : BWJBSW/KODAK/OneDesign Home
FCC ID : 2AL64-T-1561P
Date of receipt of test item: : Aug 8, 2025
Test Date : Aug 11, 2025 to Sep 2, 2025
Date of Report : Sep 2, 2025
Test Result : This device described above has been tested by BKC, and the test results show that the equipment under test (EUT) is in compliance with the FCC CFR Title 47 Part 15 Subpart C Section 15.247 requirements. And it is applicable only to the tested sample identified in the report.

Test Procedure Used:

Standards : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2020

Prepared by(Test Engineer):
Sten Huang



Approved(Manager):
Casey Wang



Approved(Manager):
Jerry Liao



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1. General Information

1.1. Description of Device (EUT)

EUT Name : Smart Sync Calendar WI-FI ENABLED

Model No. : CF-1561P, WF185, CF-1001P CF-1563, CF-2152P, RCF-1561P, CF-1568M, CF-2152W, CF-2705W, CF1566W

Test Model : CF-1561P

Model Difference : All models are electrical identical including the same software parameter and hardware design (i.e., circuit design, PCB Layout, RF module/circuit, antenna type(s) and antenna location, components on PCB, etc.), same mechanical structure and design (including product enclosure, materials, etc.). All models are exactly the same in all aspects except for the model names and the trademarks on the labels.

HVIN/Hardware version: : V1.0

FVIN/Software version: : V1.0

Operation frequency : 2.412-2.462GHz

Modulation : 802.11b: Direct Sequence Spread Spectrum(DSSS)
802.11g/802.11n(H20)
Orthogonal Frequency Division Multiplexing(OFDM)

Antenna Type : FPC Antenna, Maximum Gain is +1.48dBi

Intend use environment : Residential, commercial and light industrial environment
: Switching Power Supply
Manufacturer: Shenzhen Sunshine Technogical Co.,Ltd.
Model: XSD-1201500DEXD
Input: 100-240VAC, 50/60Hz, 0.5A Max
Output: 12VDC, 1.5A

Adapter: AC ADAPTER
Manufacturer: TEKA Technology Co., Ltd.
Model: TEKA-AC1B120150US
Input: 100-240VAC, 50/60Hz, 0.5A Max
Output: 12VDC, 1.5A

Power supply: : 12VDC from Adapter

1.2. Channel List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462		

1.3.Summary of test result

RF PART		
Test Items	Test Requirement	Result
Antenna requirement	FCC part 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	FCC part 15.207	PASS
Conducted Peak Output Power	FCC part 15.247 (b)(3)	PASS
Channel Bandwidth& 99% OCB	FCC part 15.247 (a)(2)	PASS
Power Spectral Density	FCC part 15.247 (e)	PASS
Band Edge	FCC part 15.247(d) FCC part 15.205/15.209	PASS
Conducted Spurious Emission	FCC part 15.247(d)	PASS
Spurious Emission	FCC part 15.205/15.209	PASS
Remark: N/A is an abbreviation for Not Applicable. Measurement Uncertainty is not taken into account for conformity statement		

1.4.Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Hardware Version	Software Version
/	/	/	/	/

1.5.Test mode

The special RF test software was used to control EUT work in Continuous WIFI TX mode, and select test channel, wireless mode.

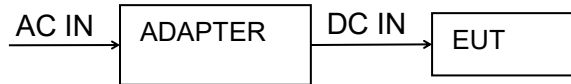
Test mode	Low channel	Middle channel	High channel
802.11b	2412MHz	2437MHz	2462MHz
802.11g	2412MHz	2437MHz	2462MHz
802.11n20	2412MHz	2437MHz	2462MHz

Note: Only the worst Data 1Mbps/6Mbps/6.5Mbps Record in the report

1.6. Block Diagram

Note: All models come with two adapters, and you can choose one of them to power the product.

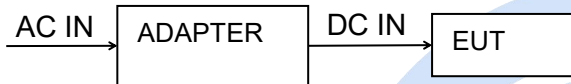
Conducted Emission



Radiated Emission



Conducted Spurious



1.7. Test Conditions

Category	Normal Conditions	Extreme Conditions
Temperature range	15-35°C	N/A
Humidity range	20-75%	N/A
Pressure range	86-106kPa	N/A
Power supply	12VDC from Adapter	N/A

Note: N/A is an abbreviation for Not Applicable.

1.8. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for radio frequency	$\pm 7 \times 10^{-8}$	
Conducted Emissions (150kHz~30MHz)	$\pm 2.54\text{dB}$	
Radiated Emission(9KHz~30MHz)	$\pm 1.6\text{ dB}$	
Radiated Emission(30MHz~1GHz)	Vertical: $\pm 4.14\text{dB}$ Horizontal: $\pm 4.25\text{dB}$	
Radiated Emission(1GHz~6GHz)	$\pm 3.9\text{dB}$	
Radiated Emission(6GHz~18GHz)	$\pm 4.3\text{dB}$	
Radiated Emission(18GHz~40GHz)	$\pm 3.38\text{dB}$	
Uncertainty for conducted RF Power	$\pm 0.20\text{dB}$	
Conducted spurious emissions	$\pm 0.24\text{dB}$	
Uncertainty for temperature	0.6°C	
Uncertainty for humidity	1%	

Bandwidth	$\pm 1.5 \times 10^{-6}$	
Time	$\pm 2\%$	
Duty Cycle	$\pm 2\%$	
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%		

1.9. Test Facility

Site Description		
Name of Firm	:	Shenzhen BKC Testing Co., Ltd.
Site Location	:	Room 103, 1/F, Huaya Building, Huaya Industrial Park, Longhua Community, Longhua District, Shenzhen, Guangdong, China.
ISED CAB identifier	:	CN0188
ISED Company Number	:	34333
FCC Designation Number	:	CN1416
FCC Test Firm Registration Number	:	701543

1.10. Test Equipment

Conducted Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	102762	Mar. 10. 2025	Mar. 09. 2026
2	EMI Test Receiver	R&S	ESCI	101424	Mar. 10. 2025	Mar. 09. 2026
3	Rf cables	HTEC	HCE 2M-CE	N/A	Mar. 10. 2025	Mar. 09. 2026
4	Coupling/ Decoupling Network	Diamond	CX210	N/A	Mar. 10. 2025	Mar. 09. 2026
5	CE Testing software	EZ	EZ-EMC	/	/	/

Radiated Test Site(Below 1G and Above 1G)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Antenna	Schwarzbeck	VULB 9168	01321	Mar. 20. 2025	Mar. 19. 2028
2	EMI Test Receiver	R&S	ESRP	101478	Mar. 10. 2025	Mar. 09. 2026
3	Preamplifier	HP	8447D	2727A05345	Mar. 10. 2025	Mar. 09. 2026
4	Double Ridged Broadband	SCHWARZBECK	BBHA 9120D	02621	Mar. 10. 2025	Mar. 19. 2028
5	Preamplifier	Schwarzbeck	BBV 9718D	00041	Mar. 10. 2025	Mar. 09. 2026
6	Rf cables	HUBER+SUHNER	8M-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
7	Rf cables	HUBER+SUHNER	1.5M-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
8	Rf cables	HUBER+SUHNER	1.5M-AP-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
9	Loop antenna	TESEQ	HLA6121	58357	Mar. 09. 2025	Mar. 10. 2026

10	Spectrum analyzer	R&S	FSP40	200061	Feb. 13. 2025	Feb. 12. 2026
11	Double Ridged Broadband Horn Antenna	COM-POWER	AH-1840	10100009	Mar. 10. 2025	Mar. 09. 2026
12	Spectrum	Agilent	N9020A	MY50510311	Mar. 09. 2025	Mar. 10. 2026
13	RE Testing software	EZ	EZ-EMC	/		/

RF Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum	Agilent	N9020A	MY50510311	Mar. 09. 2025	Mar. 10. 2026
2	Vector source	Agilent	N5182A	MY47420223	Mar. 09. 2025	Mar. 10. 2026
3	All instrument	Rohde & Schwarz	CMW 500	101131	Mar. 09. 2025	Mar. 10. 2026
4	control unit	MW	MW100-RFCB	MW200411BK-34	Mar. 09. 2025	Mar. 10. 2026
5	RF Testing software	MW	MTS 8310	/	Mar. 09. 2025	/
6	Spectrum analyzer	R&S	FSP40	200061	Feb. 13. 2025	Feb. 12. 2026

Test software

Software name	RF Testing software
Software version	2.0.0.0
Software name	RE Testing software
Software version	EMEC-03A2 RE+
Software name	CE Testing software
Software version	EMEC-3A1+

2. Conducted emission at the mains terminals test

2.1.Limit

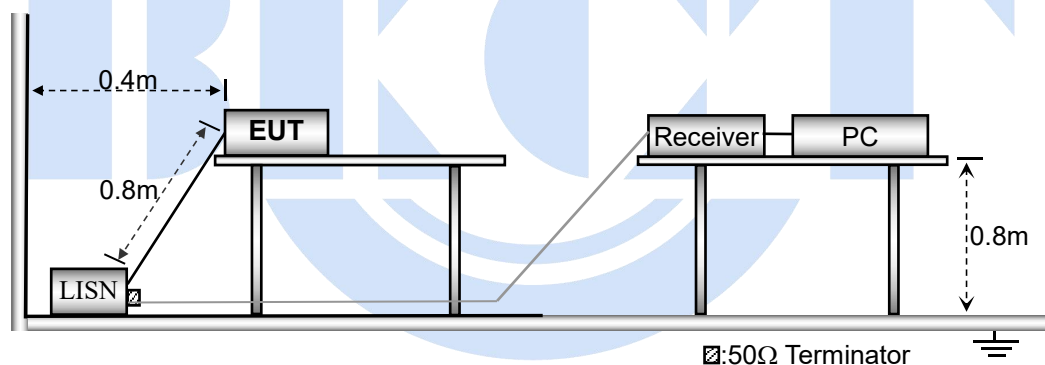
Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2020
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

2.2.Test Setup

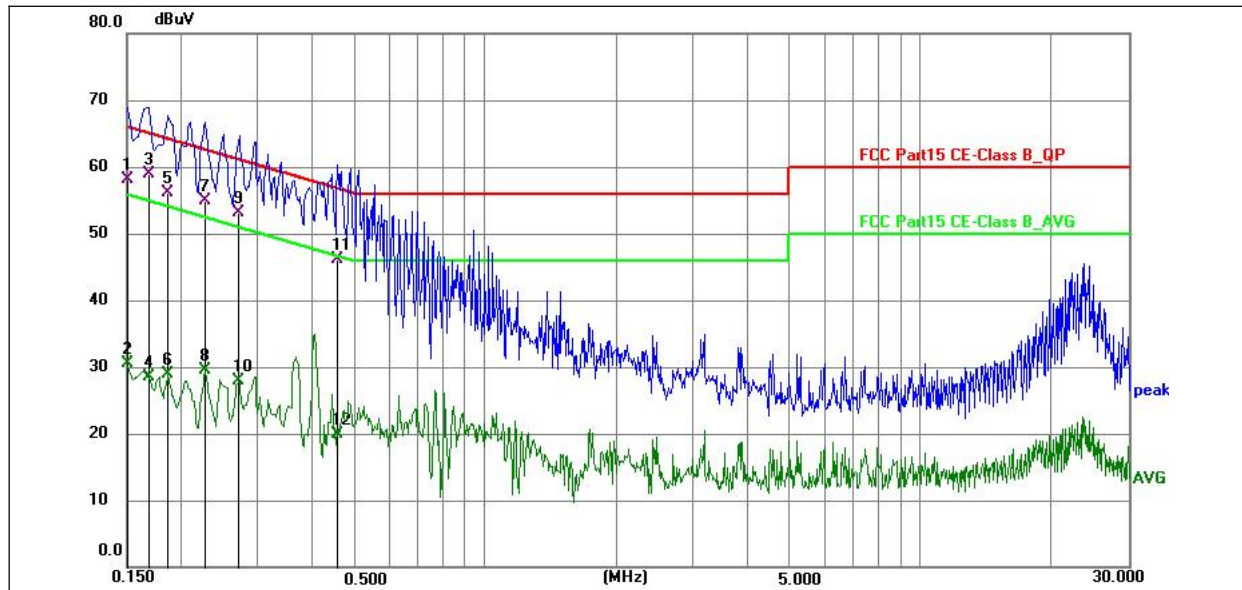


2.3.Test Procedure

1. The EUT was placed 0.1 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
2. 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.
3. 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.
4. LISN at least 80 cm from nearest part of EUT chassis.
5. For the actual test configuration, please refer to the related Item - EUT Test Photos.

2.4.Test Result

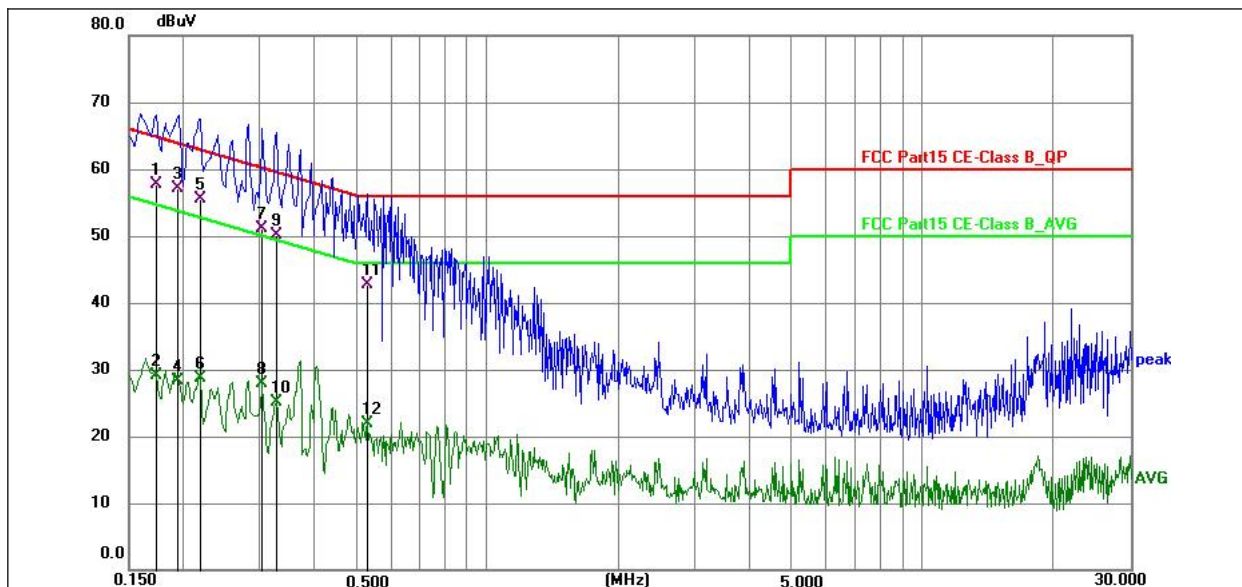
Conducted Emission At The Mains Terminals Test Data			
Temperature:	25℃	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Line
Test Voltage :	AC 120V/60Hz	Test Mode:	Transmitting
Note:	AC ADAPTER (model: TEKA-AC1B120150US)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	48.32	9.76	58.08	66.00	-7.92	QP	P	
2	0.1500	20.67	9.76	30.43	56.00	-25.57	AVG	P	
3 *	0.1680	49.09	9.78	58.87	65.06	-6.19	QP	P	
4	0.1680	18.68	9.78	28.46	55.06	-26.60	AVG	P	
5	0.1860	46.26	9.79	56.05	64.21	-8.16	QP	P	
6	0.1860	19.02	9.79	28.81	54.21	-25.40	AVG	P	
7	0.2265	45.12	9.80	54.92	62.58	-7.66	QP	P	
8	0.2265	19.65	9.80	29.45	52.58	-23.13	AVG	P	
9	0.2714	43.23	9.79	53.02	61.07	-8.05	QP	P	
10	0.2714	18.11	9.79	27.90	51.07	-23.17	AVG	P	
11	0.4560	36.26	9.77	46.03	56.77	-10.74	QP	P	
12	0.4560	10.22	9.77	19.99	46.77	-26.78	AVG	P	

Conducted Emission At The Mains Terminals Test Data

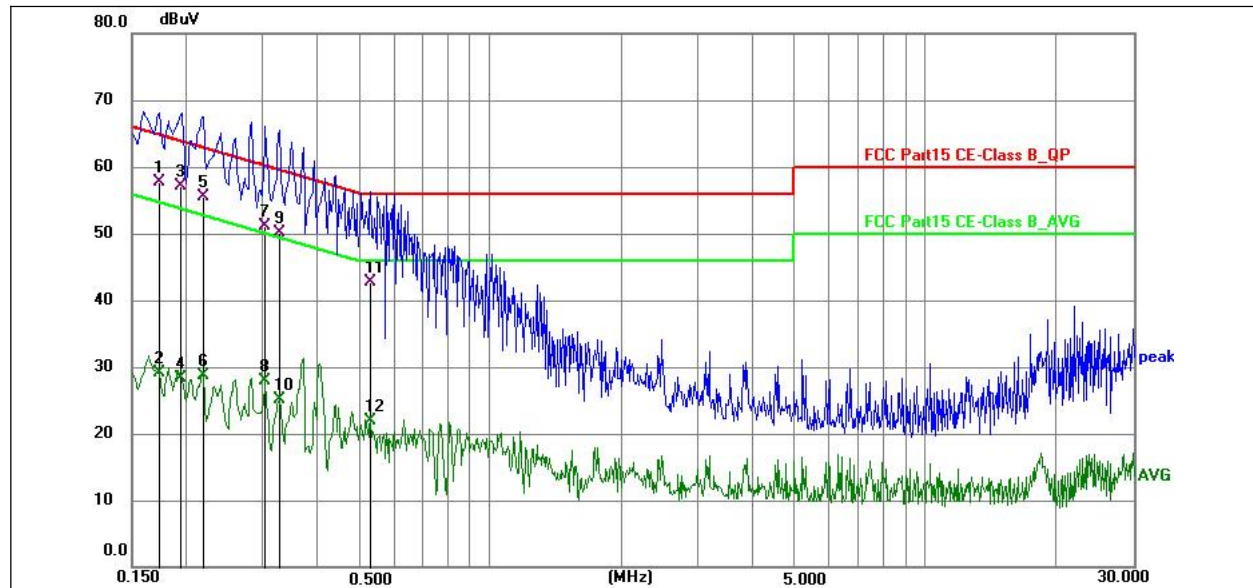
Temperature:	25°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Neutral
Test Voltage :	AC 120V/60Hz	Test Mode:	Transmitting
Note:	AC ADAPTER (model: TEKA-AC1B120150US)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1725	48.07	9.69	57.76	64.84	-7.08	QP	P	
2	0.1725	19.41	9.69	29.10	54.84	-25.74	AVG	P	
3 *	0.1949	47.30	9.71	57.01	63.83	-6.82	QP	P	
4	0.1949	18.60	9.71	28.31	53.83	-25.52	AVG	P	
5	0.2175	45.81	9.71	55.52	62.91	-7.39	QP	P	
6	0.2175	19.02	9.71	28.73	52.91	-24.18	AVG	P	
7	0.3030	41.41	9.70	51.11	60.16	-9.05	QP	P	
8	0.3030	18.16	9.70	27.86	50.16	-22.30	AVG	P	
9	0.3255	40.42	9.70	50.12	59.57	-9.45	QP	P	
10	0.3255	15.31	9.70	25.01	49.57	-24.56	AVG	P	
11	0.5280	33.02	9.70	42.72	56.00	-13.28	QP	P	
12	0.5280	12.21	9.70	21.91	46.00	-24.09	AVG	P	

Conducted Emission At The Mains Terminals Test Data

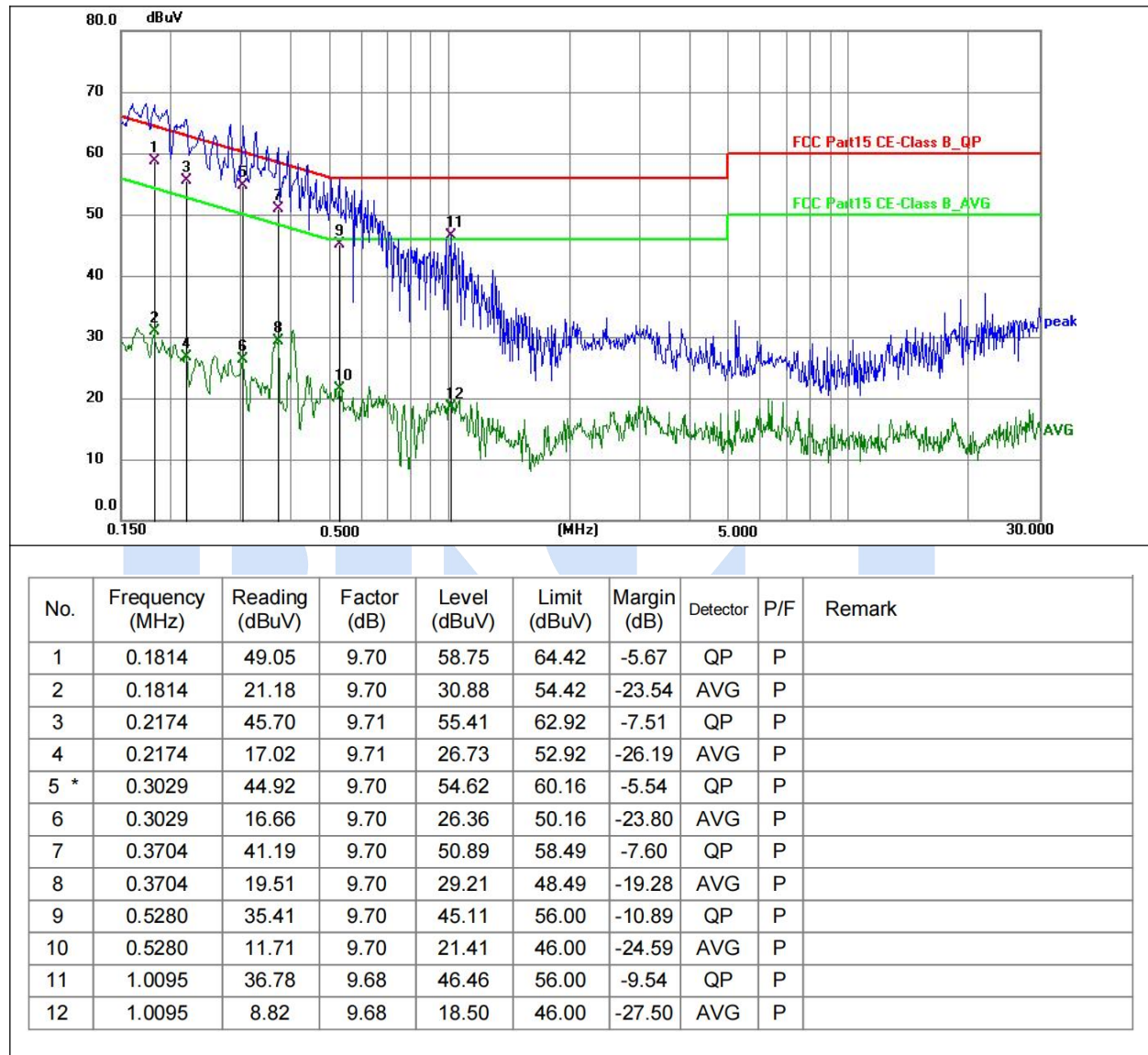
Temperature:	25°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Line
Test Voltage :	AC 120V/60Hz	Test Mode:	Transmitting
Note:	Switching Power Supply (model: XSD-1201500DEXD)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1680	48.98	9.78	58.76	65.06	-6.30	QP	P	
2	0.1680	18.18	9.78	27.96	55.06	-27.10	AVG	P	
3 *	0.1905	49.62	9.80	59.42	64.01	-4.59	QP	P	
4	0.1905	17.31	9.80	27.11	54.01	-26.90	AVG	P	
5	0.2084	48.83	9.81	58.64	63.27	-4.63	QP	P	
6	0.2084	17.39	9.81	27.20	53.27	-26.07	AVG	P	
7	0.3149	42.65	9.77	52.42	59.84	-7.42	QP	P	
8	0.3149	15.05	9.77	24.82	49.84	-25.02	AVG	P	
9	0.4650	37.78	9.77	47.55	56.60	-9.05	QP	P	
10	0.4650	11.97	9.77	21.74	46.60	-24.86	AVG	P	
11	0.5100	37.88	9.77	47.65	56.00	-8.35	QP	P	
12	0.5100	13.59	9.77	23.36	46.00	-22.64	AVG	P	

Conducted Emission At The Mains Terminals Test Data

Temperature:	25°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Neutral
Test Voltage :	AC 120V/60Hz	Test Mode:	Transmitting
Note:	Switching Power Supply (model: XSD-1201500DEXD)		



3. Radiated Spurious Emissions

3.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2020

Test Result: PASS

Measurement Distance: 3m

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

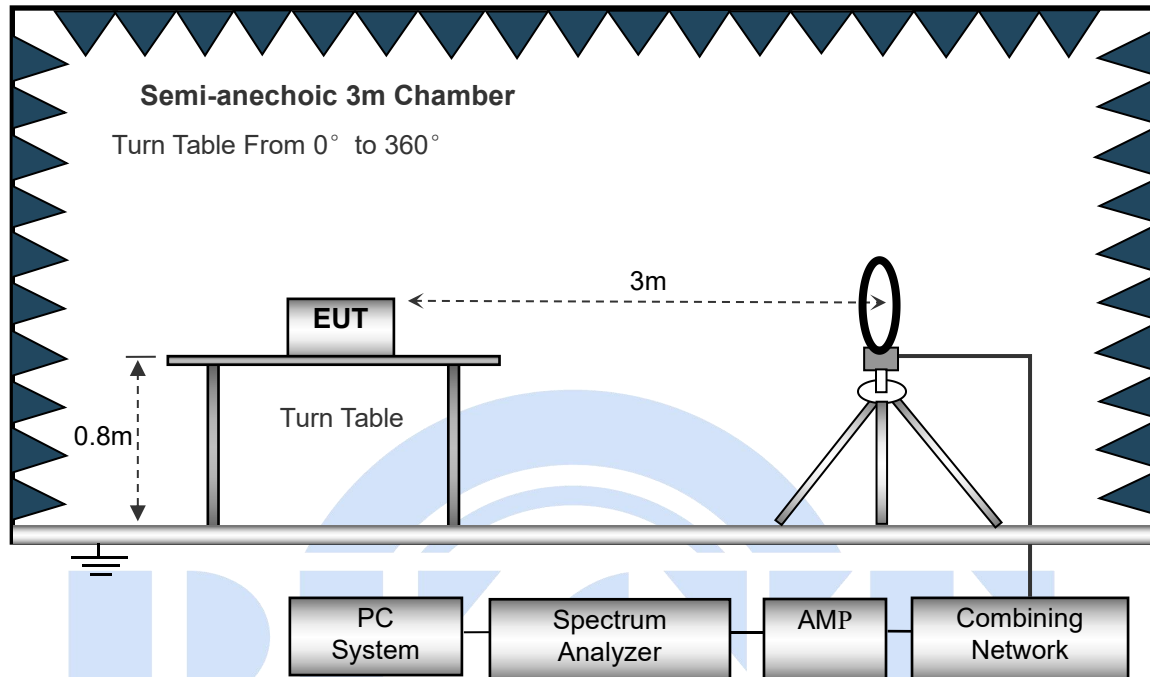
Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log(2400/F(\text{kHz})) + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log(24000/F(\text{kHz})) + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log(30) + 40$
30 ~ 88	100	3	100	$20\log(100)$
88 ~ 216	150	3	150	$20\log(150)$
216 ~ 960	200	3	200	$20\log(200)$
Above 960	500	3	500	$20\log(500)$

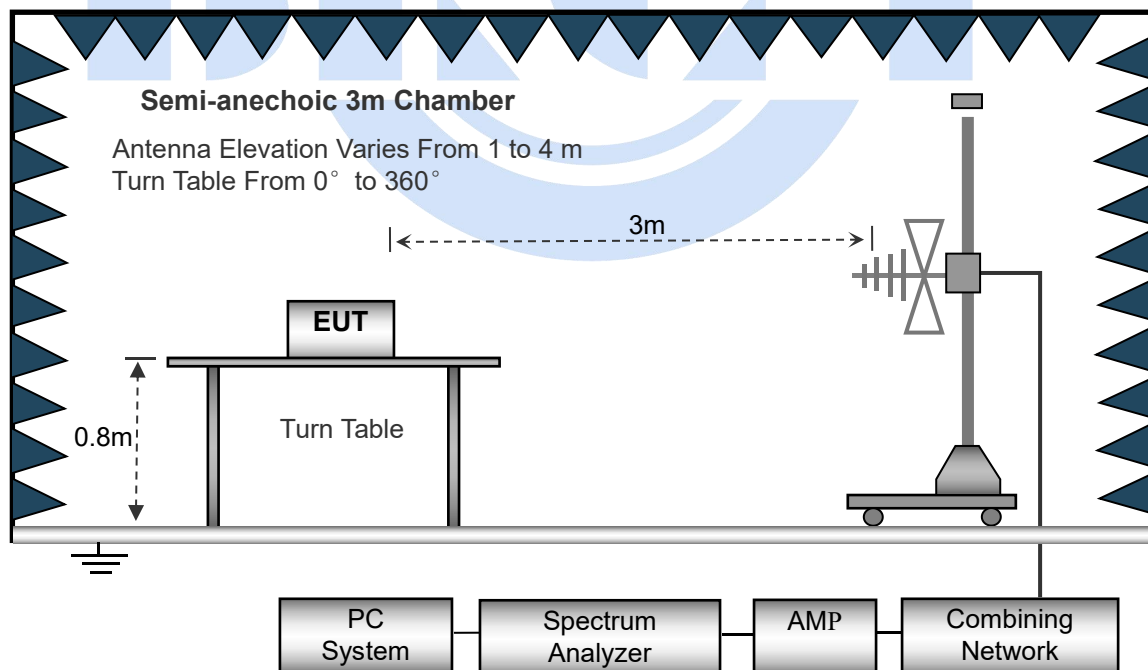
3.2. Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

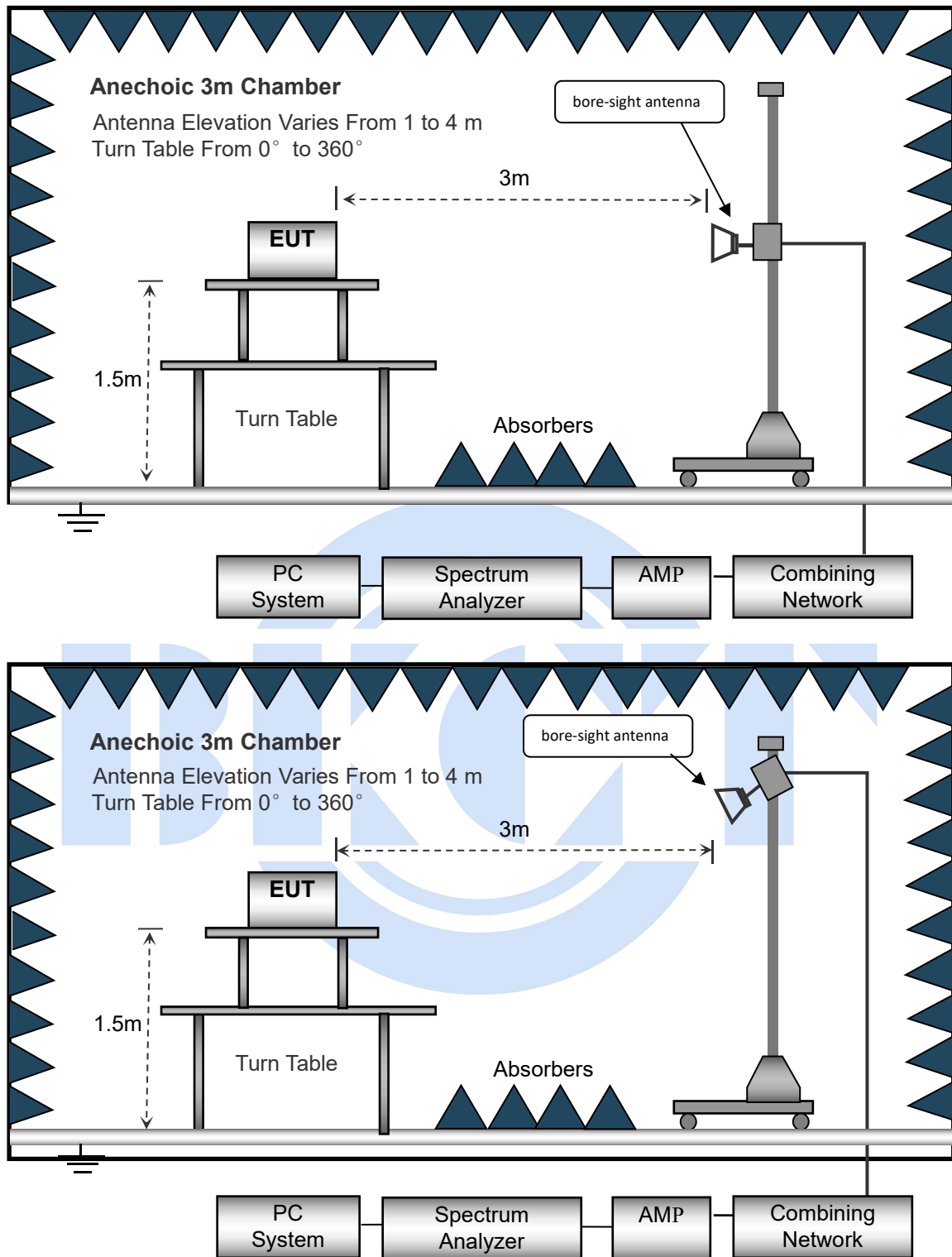
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



3.3. Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high - pass filter is used during radiated emissions above 1GHz measurement.



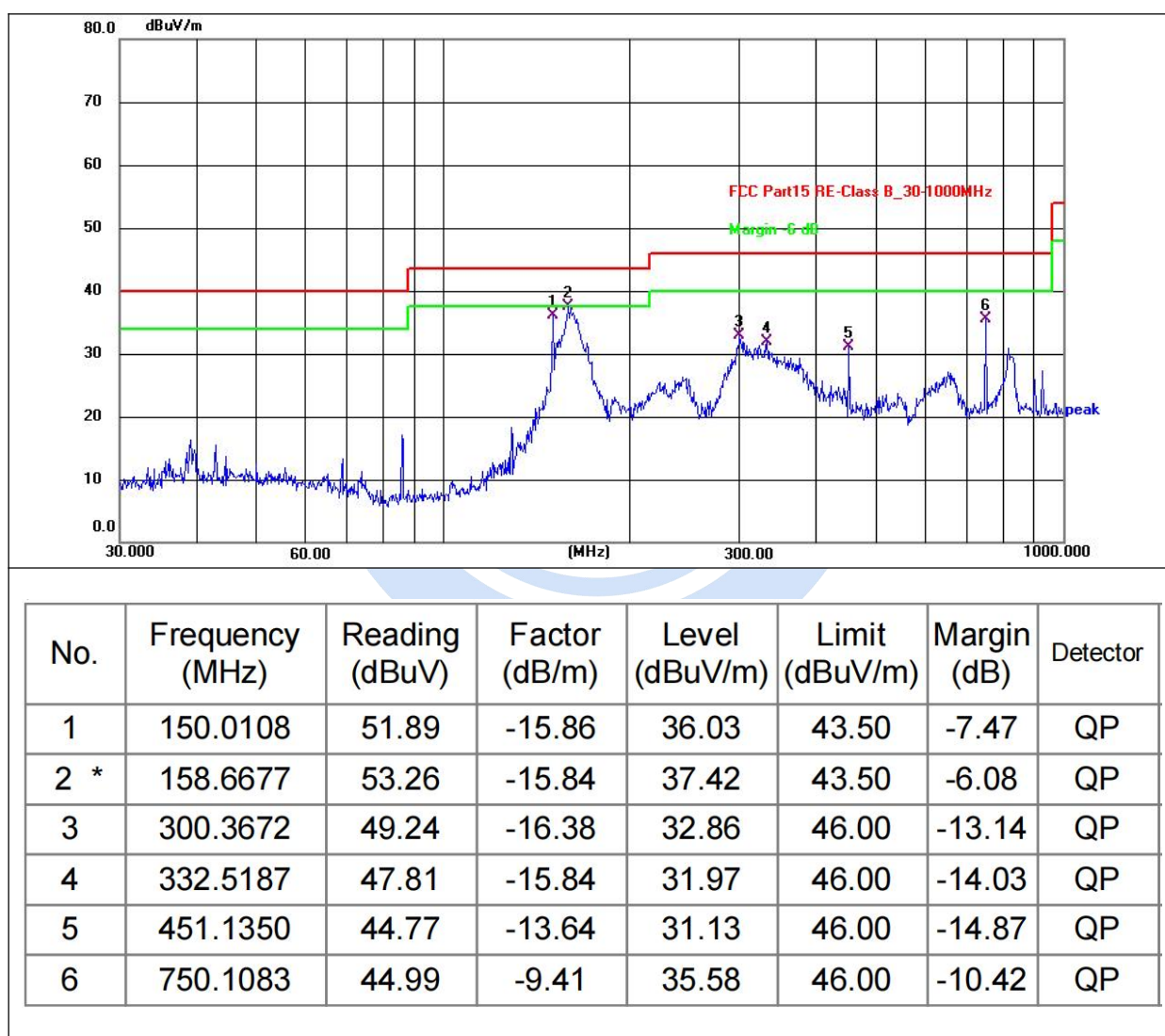
3.4. Test Result

Test Frequency: 9KHz~30MHz

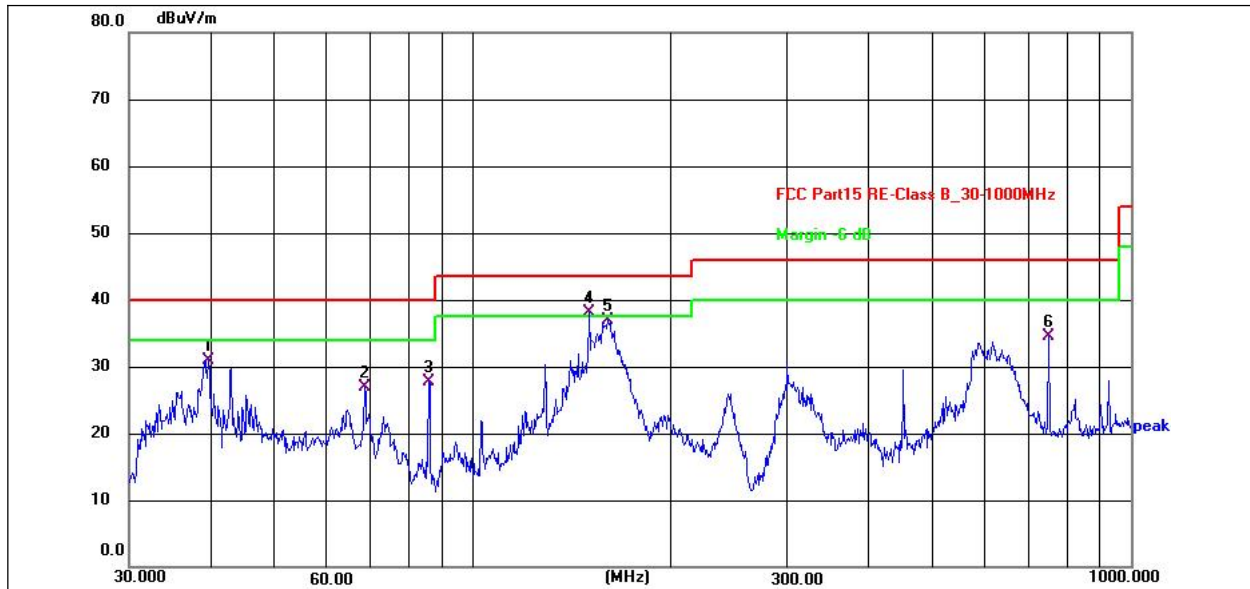
The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 1GHz

Radiation Emission Test Data			
Temperature:	25°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	12VDC	Test channel	802.11b 2412MHz TX (Worst case)
Note:	AC ADAPTER (model: TEKA-AC1B120150US)		

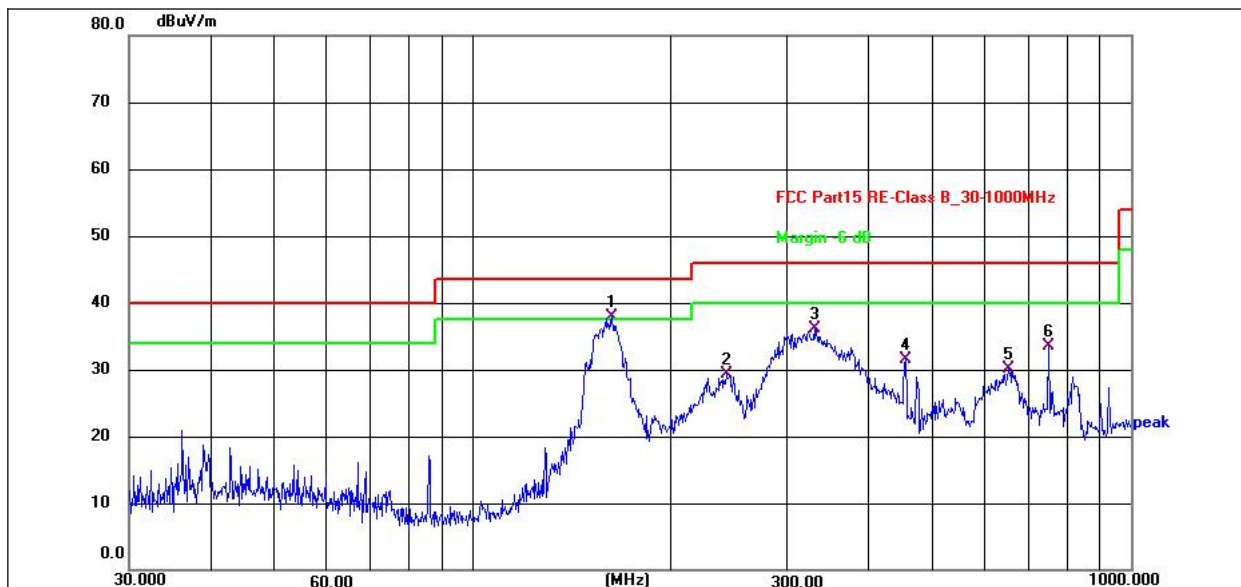


Radiation Emission Test Data			
Temperature:	25°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	12VDC	Test channel	802.11b 2412MHz TX (Worst case)
Note:	AC ADAPTER (model: TEKA-AC1B120150US)		



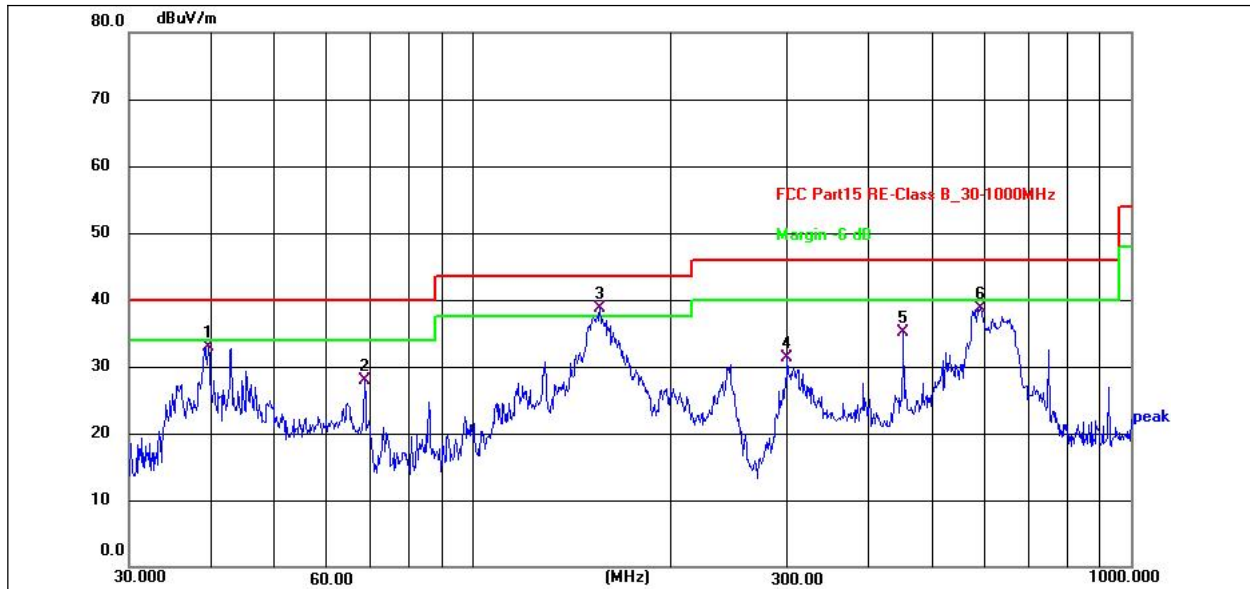
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39.5757	47.26	-16.29	30.97	40.00	-9.03	QP
2	68.3908	45.85	-19.03	26.82	40.00	-13.18	QP
3	85.5976	48.58	-20.93	27.65	40.00	-12.35	QP
4 *	150.0108	54.02	-15.86	38.16	43.50	-5.34	QP
5	160.3456	52.81	-15.87	36.94	43.50	-6.56	QP
6	750.1082	43.85	-9.41	34.44	46.00	-11.56	QP

Radiation Emission Test Data			
Temperature:	25°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	12VDC	Test channel	802.11b 2412MHz TX (Worst case)
Note:	Switching Power Supply (model: XSD-1201500DEXD)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	162.6105	53.89	-16.07	37.82	43.50	-5.68	QP
2	242.5252	47.28	-18.06	29.22	46.00	-16.78	QP
3	330.1948	51.94	-15.89	36.05	46.00	-9.95	QP
4	454.3100	45.20	-13.62	31.58	46.00	-14.42	QP
5	651.9417	40.74	-10.69	30.05	46.00	-15.95	QP
6	750.1082	42.99	-9.41	33.58	46.00	-12.42	QP

Radiation Emission Test Data			
Temperature:	25°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	12VDC	Test channel	802.11b 2412MHz TX (Worst case)
Note:			



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39.5756	49.26	-16.29	32.97	40.00	-7.03	QP
2	68.3907	46.85	-19.03	27.82	40.00	-12.18	QP
3 *	155.9100	54.64	-15.85	38.79	43.50	-4.71	QP
4	300.3672	47.69	-16.38	31.31	46.00	-14.69	QP
5	451.1350	48.68	-13.64	35.04	46.00	-10.96	QP
6	590.9737	50.41	-11.75	38.66	46.00	-7.34	QP

1GHz~25GHz

802.11b

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
Low Channel:2412MHz									
V	4824.00	50.77	30.55	5.77	24.66	50.65	74.00	-23.35	Pk
V	4824.00	43.05	30.55	5.77	24.66	42.93	54.00	-11.07	AV
V	7236.00	51.15	30.33	6.32	24.55	51.69	74.00	-22.31	Pk
V	7236.00	43.37	30.33	6.32	24.55	43.91	54.00	-10.09	AV
V	9648.00	51.78	30.85	7.45	24.69	53.07	74.00	-20.93	Pk
V	9648.00	43.30	30.85	7.45	24.69	44.59	54.00	-9.41	AV
V	12060.00	51.87	31.02	8.99	25.57	55.41	74.00	-18.59	Pk
V	12060.00	43.02	31.02	8.99	25.57	46.56	54.00	-7.44	AV
H	4824.00	52.53	30.55	5.77	24.66	52.41	74.00	-21.59	Pk
H	4824.00	43.61	30.55	5.77	24.66	43.49	54.00	-10.51	AV
H	7236.00	53.77	30.33	6.32	24.55	54.31	74.00	-19.69	Pk
H	7236.00	43.73	30.33	6.32	24.55	44.27	54.00	-9.73	AV
H	9648.00	51.73	30.85	7.45	24.69	53.02	74.00	-20.98	Pk
H	9648.00	43.36	30.85	7.45	24.69	44.65	54.00	-9.35	AV
H	12060.00	52.39	31.02	8.99	25.57	55.93	74.00	-18.07	Pk
H	12060.00	43.49	31.02	8.99	25.57	47.03	54.00	-6.97	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
Middle Channel:2437MHz									
V	4874.00	54.33	30.55	5.77	24.66	54.21	74.00	-19.79	Pk
V	4874.00	43.85	30.55	5.77	24.66	43.73	54.00	-10.27	AV
V	7311.00	52.11	30.33	6.32	24.55	52.65	74.00	-21.35	Pk
V	7311.00	43.71	30.33	6.32	24.55	44.25	54.00	-9.75	AV
V	9748.00	53.01	30.85	7.45	24.69	54.30	74.00	-19.70	Pk
V	9748.00	43.94	30.85	7.45	24.69	45.23	54.00	-8.77	AV
V	12185.00	54.97	31.02	8.99	25.57	58.51	74.00	-15.49	Pk
V	12185.00	43.76	31.02	8.99	25.57	47.30	54.00	-6.70	AV
H	4874.00	50.16	30.55	5.77	24.66	50.04	74.00	-23.96	Pk
H	4874.00	43.04	30.55	5.77	24.66	42.92	54.00	-11.08	AV
H	7311.00	53.06	30.33	6.32	24.55	53.60	74.00	-20.40	Pk
H	7311.00	43.09	30.33	6.32	24.55	43.63	54.00	-10.37	AV
H	9748.00	52.11	30.85	7.45	24.69	53.40	74.00	-20.60	Pk
H	9748.00	43.74	30.85	7.45	24.69	45.03	54.00	-8.97	AV
H	12185.00	52.86	31.02	8.99	25.57	56.40	74.00	-17.60	Pk
H	12185.00	43.92	31.02	8.99	25.57	47.46	54.00	-6.54	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampli fier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
High Channel:2462MHz									
V	4924.00	53.78	30.55	5.77	24.66	53.66	74.00	-20.34	Pk
V	4924.00	43.71	30.55	5.77	24.66	43.59	54.00	-10.41	AV
V	7386.00	52.18	30.33	6.32	24.55	52.72	74.00	-21.28	Pk
V	7386.00	43.64	30.33	6.32	24.55	44.18	54.00	-9.82	AV
V	9848.00	54.93	30.85	7.45	24.69	56.22	74.00	-17.78	Pk
V	9848.00	43.96	30.85	7.45	24.69	45.25	54.00	-8.75	AV
V	12310.00	50.84	31.02	8.99	25.57	54.38	74.00	-19.62	Pk
V	12310.00	43.84	31.02	8.99	25.57	47.38	54.00	-6.62	AV
H	4924.00	52.59	30.55	5.77	24.66	52.47	74.00	-21.53	Pk
H	4924.00	43.43	30.55	5.77	24.66	43.31	54.00	-10.69	AV
H	7386.00	54.82	30.33	6.32	24.55	55.36	74.00	-18.64	Pk
H	7386.00	43.12	30.33	6.32	24.55	43.66	54.00	-10.34	AV
H	9848.00	54.03	30.85	7.45	24.69	55.32	74.00	-18.68	Pk
H	9848.00	43.38	30.85	7.45	24.69	44.67	54.00	-9.33	AV
H	12310.00	54.05	31.02	8.99	25.57	57.59	74.00	-16.41	Pk
H	12310.00	43.95	31.02	8.99	25.57	47.49	54.00	-6.51	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11g

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
Low Channel:2412MHz									
V	4824.00	52.79	30.55	5.77	24.66	52.67	74.00	-21.33	Pk
V	4824.00	43.95	30.55	5.77	24.66	43.83	54.00	-10.17	AV
V	7236.00	52.43	30.33	6.32	24.55	52.97	74.00	-21.03	Pk
V	7236.00	43.35	30.33	6.32	24.55	43.89	54.00	-10.11	AV
V	9648.00	53.21	30.85	7.45	24.69	54.50	74.00	-19.50	Pk
V	9648.00	43.45	30.85	7.45	24.69	44.74	54.00	-9.26	AV
V	12060.00	51.15	31.02	8.99	25.57	54.69	74.00	-19.31	Pk
V	12060.00	43.45	31.02	8.99	25.57	46.99	54.00	-7.01	AV
H	4824.00	50.95	30.55	5.77	24.66	50.83	74.00	-23.17	Pk
H	4824.00	43.49	30.55	5.77	24.66	43.37	54.00	-10.63	AV
H	7236.00	52.07	30.33	6.32	24.55	52.61	74.00	-21.39	Pk
H	7236.00	43.25	30.33	6.32	24.55	43.79	54.00	-10.21	AV
H	9648.00	52.78	30.85	7.45	24.69	54.07	74.00	-19.93	Pk
H	9648.00	43.82	30.85	7.45	24.69	45.11	54.00	-8.89	AV
H	12060.00	51.49	31.02	8.99	25.57	55.03	74.00	-18.97	Pk
H	12060.00	43.55	31.02	8.99	25.57	47.09	54.00	-6.91	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
Middle Channel:2437MHz									
V	4874.00	54.80	30.55	5.77	24.66	54.68	74.00	-19.32	Pk
V	4874.00	43.29	30.55	5.77	24.66	43.17	54.00	-10.83	AV
V	7311.00	52.63	30.33	6.32	24.55	53.17	74.00	-20.83	Pk
V	7311.00	43.57	30.33	6.32	24.55	44.11	54.00	-9.89	AV
V	9748.00	50.34	30.85	7.45	24.69	51.63	74.00	-22.37	Pk
V	9748.00	43.50	30.85	7.45	24.69	44.79	54.00	-9.21	AV
V	12185.00	52.85	31.02	8.99	25.57	56.39	74.00	-17.61	Pk
V	12185.00	43.39	31.02	8.99	25.57	46.93	54.00	-7.07	AV
H	4874.00	52.59	30.55	5.77	24.66	52.47	74.00	-21.53	Pk
H	4874.00	43.35	30.55	5.77	24.66	43.23	54.00	-10.77	AV
H	7311.00	53.98	30.33	6.32	24.55	54.52	74.00	-19.48	Pk
H	7311.00	43.60	30.33	6.32	24.55	44.14	54.00	-9.86	AV
H	9748.00	51.39	30.85	7.45	24.69	52.68	74.00	-21.32	Pk
H	9748.00	43.17	30.85	7.45	24.69	44.46	54.00	-9.54	AV
H	12185.00	51.61	31.02	8.99	25.57	55.15	74.00	-18.85	Pk
H	12185.00	43.66	31.02	8.99	25.57	47.20	54.00	-6.80	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	54.55	30.55	5.77	24.66	54.43	74.00	-19.57	Pk
V	4924.00	43.00	30.55	5.77	24.66	42.88	54.00	-11.12	AV
V	7386.00	54.12	30.33	6.32	24.55	54.66	74.00	-19.34	Pk
V	7386.00	43.31	30.33	6.32	24.55	43.85	54.00	-10.15	AV
V	9848.00	54.62	30.85	7.45	24.69	55.91	74.00	-18.09	Pk
V	9848.00	43.21	30.85	7.45	24.69	44.50	54.00	-9.50	AV
V	12310.00	50.50	31.02	8.99	25.57	54.04	74.00	-19.96	Pk
V	12310.00	43.81	31.02	8.99	25.57	47.35	54.00	-6.65	AV
H	4924.00	53.59	30.55	5.77	24.66	53.47	74.00	-20.53	Pk
H	4924.00	43.82	30.55	5.77	24.66	43.70	54.00	-10.30	AV
H	7386.00	52.41	30.33	6.32	24.55	52.95	74.00	-21.05	Pk
H	7386.00	43.05	30.33	6.32	24.55	43.59	54.00	-10.41	AV
H	9848.00	53.29	30.85	7.45	24.69	54.58	74.00	-19.42	Pk
H	9848.00	43.40	30.85	7.45	24.69	44.69	54.00	-9.31	AV
H	12310.00	52.75	31.02	8.99	25.57	56.29	74.00	-17.71	Pk
H	12310.00	43.50	31.02	8.99	25.57	47.04	54.00	-6.96	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11n20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
Low Channel:2412MHz									
V	4824.00	53.15	30.55	5.77	24.66	53.03	74.00	-20.97	Pk
V	4824.00	43.62	30.55	5.77	24.66	43.50	54.00	-10.50	AV
V	7236.00	53.69	30.33	6.32	24.55	54.23	74.00	-19.77	Pk
V	7236.00	43.68	30.33	6.32	24.55	44.22	54.00	-9.78	AV
V	9648.00	54.17	30.85	7.45	24.69	55.46	74.00	-18.54	Pk
V	9648.00	43.03	30.85	7.45	24.69	44.32	54.00	-9.68	AV
V	12060.00	51.61	31.02	8.99	25.57	55.15	74.00	-18.85	Pk
V	12060.00	43.58	31.02	8.99	25.57	47.12	54.00	-6.88	AV
H	4824.00	53.80	30.55	5.77	24.66	53.68	74.00	-20.32	Pk
H	4824.00	43.33	30.55	5.77	24.66	43.21	54.00	-10.79	AV
H	7236.00	50.83	30.33	6.32	24.55	51.37	74.00	-22.63	Pk
H	7236.00	43.20	30.33	6.32	24.55	43.74	54.00	-10.26	AV
H	9648.00	54.18	30.85	7.45	24.69	55.47	74.00	-18.53	Pk
H	9648.00	43.32	30.85	7.45	24.69	44.61	54.00	-9.39	AV
H	12060.00	53.49	31.02	8.99	25.57	57.03	74.00	-16.97	Pk
H	12060.00	43.95	31.02	8.99	25.57	47.49	54.00	-6.51	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
Middle Channel:2437MHz									
V	4874.00	54.87	30.55	5.77	24.66	54.75	74.00	-19.25	Pk
V	4874.00	43.14	30.55	5.77	24.66	43.02	54.00	-10.98	AV
V	7311.00	54.56	30.33	6.32	24.55	55.10	74.00	-18.90	Pk
V	7311.00	43.98	30.33	6.32	24.55	44.52	54.00	-9.48	AV
V	9748.00	50.28	30.85	7.45	24.69	51.57	74.00	-22.43	Pk
V	9748.00	43.86	30.85	7.45	24.69	45.15	54.00	-8.85	AV
V	12185.00	51.08	31.02	8.99	25.57	54.62	74.00	-19.38	Pk
V	12185.00	43.49	31.02	8.99	25.57	47.03	54.00	-6.97	AV
H	4874.00	52.07	30.55	5.77	24.66	51.95	74.00	-22.05	Pk
H	4874.00	43.88	30.55	5.77	24.66	43.76	54.00	-10.24	AV
H	7311.00	51.50	30.33	6.32	24.55	52.04	74.00	-21.96	Pk
H	7311.00	43.94	30.33	6.32	24.55	44.48	54.00	-9.52	AV
H	9748.00	52.79	30.85	7.45	24.69	54.08	74.00	-19.92	Pk
H	9748.00	43.17	30.85	7.45	24.69	44.46	54.00	-9.54	AV
H	12185.00	52.99	31.02	8.99	25.57	56.53	74.00	-17.47	Pk
H	12185.00	43.80	31.02	8.99	25.57	47.34	54.00	-6.66	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
High Channel:2462MHz									
V	4924.00	54.57	30.55	5.77	24.66	54.45	74.00	-19.55	Pk
V	4924.00	43.76	30.55	5.77	24.66	43.64	54.00	-10.36	AV
V	7386.00	53.73	30.33	6.32	24.55	54.27	74.00	-19.73	Pk
V	7386.00	43.27	30.33	6.32	24.55	43.81	54.00	-10.19	AV
V	9848.00	54.10	30.85	7.45	24.69	55.39	74.00	-18.61	Pk
V	9848.00	43.90	30.85	7.45	24.69	45.19	54.00	-8.81	AV
V	12310.00	53.72	31.02	8.99	25.57	57.26	74.00	-16.74	Pk
V	12310.00	43.21	31.02	8.99	25.57	46.75	54.00	-7.25	AV
H	4924.00	50.34	30.55	5.77	24.66	50.22	74.00	-23.78	Pk
H	4924.00	43.21	30.55	5.77	24.66	43.09	54.00	-10.91	AV
H	7386.00	53.77	30.33	6.32	24.55	54.31	74.00	-19.69	Pk
H	7386.00	43.21	30.33	6.32	24.55	43.75	54.00	-10.25	AV
H	9848.00	52.67	30.85	7.45	24.69	53.96	74.00	-20.04	Pk
H	9848.00	43.35	30.85	7.45	24.69	44.64	54.00	-9.36	AV
H	12310.00	54.60	31.02	8.99	25.57	58.14	74.00	-15.86	Pk
H	12310.00	43.18	31.02	8.99	25.57	46.72	54.00	-7.28	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

4. Radiated Band Emission Measurement

4.1 Test Requirement:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2020				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

4.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. 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 from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could bestopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin a data sheet.
- g. Test the EUT in the lowest channel,the Highest channel

Note:

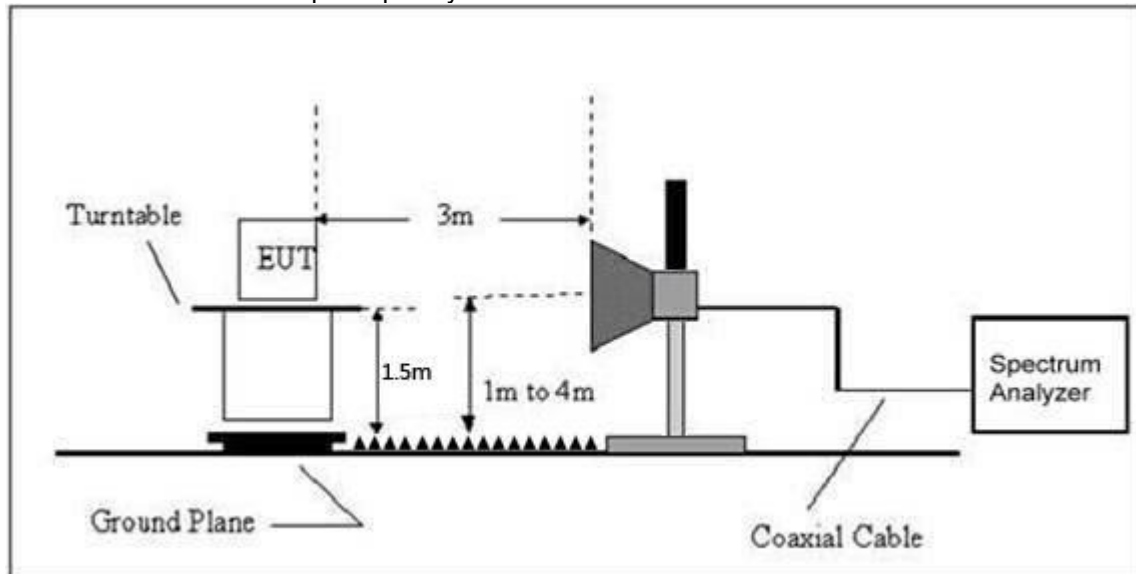
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.3 DEVIATION FROM TEST STANDARD

No deviation

4.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



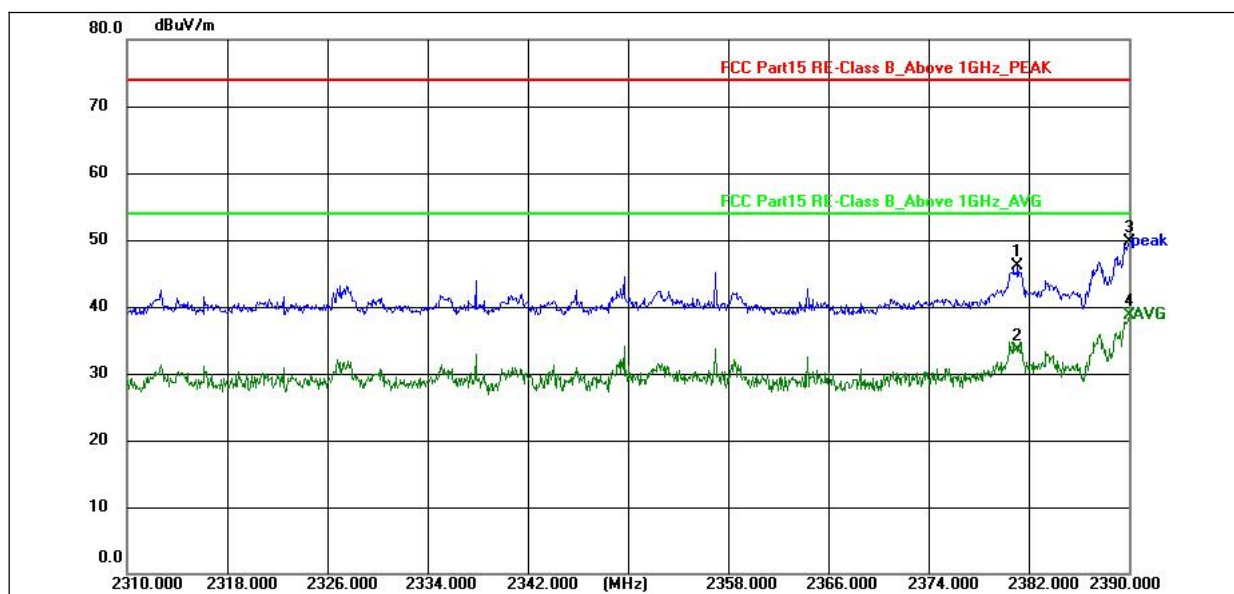
4.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULT

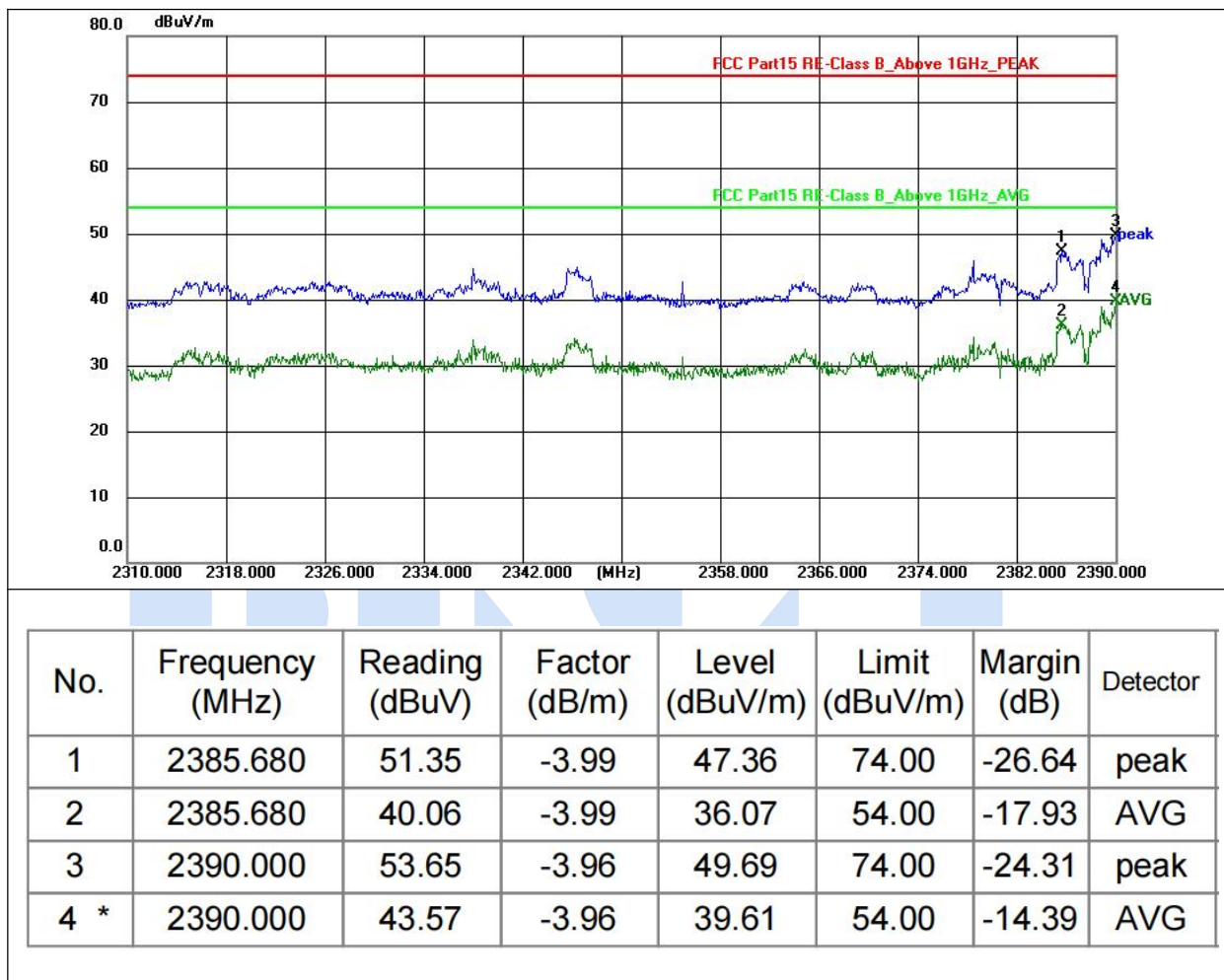
All modes were tested (Worst case 802.11b)

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test channel	2412MHz (Worst case)

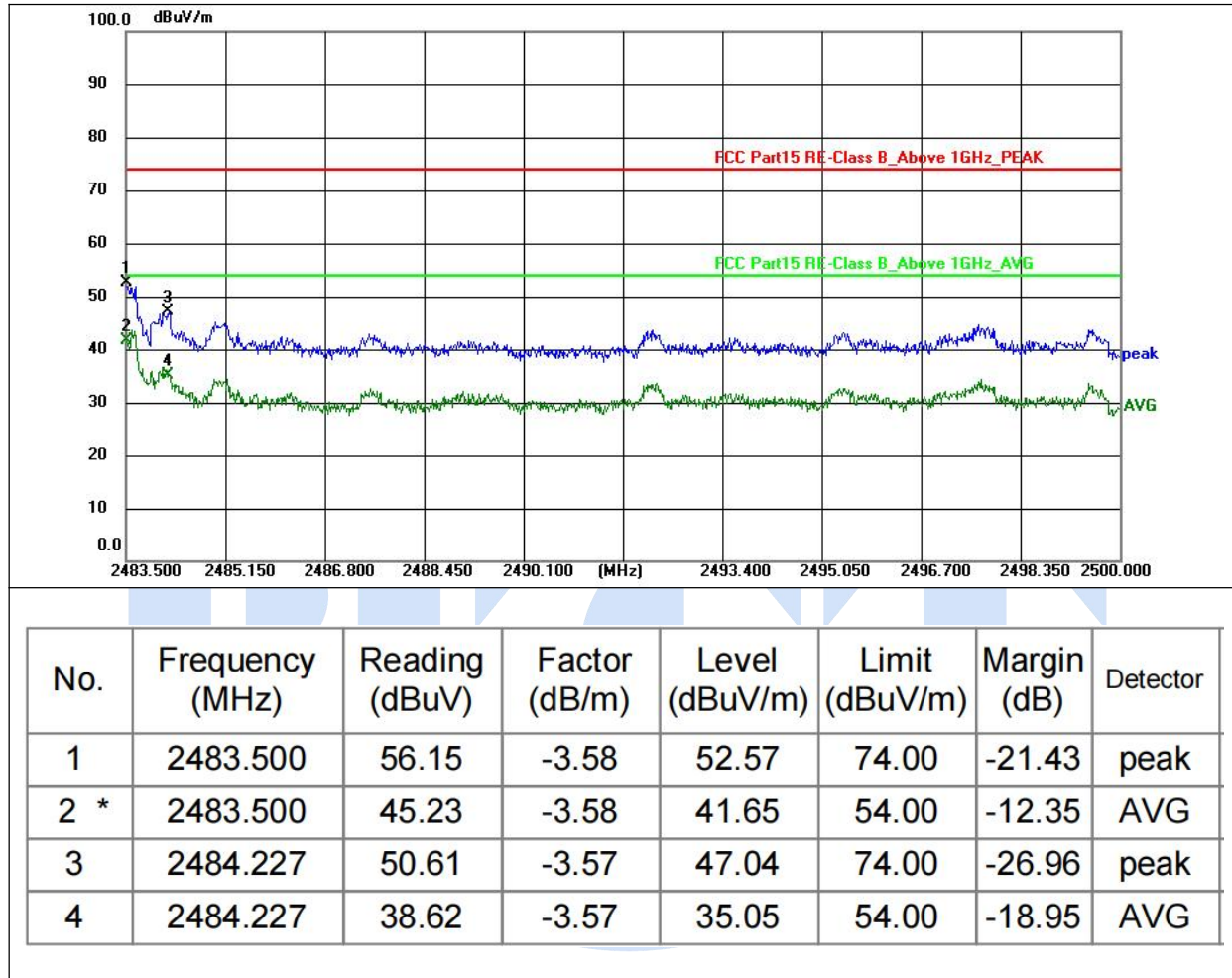


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2381.120	50.05	-4.00	46.05	74.00	-27.95	peak
2	2381.120	37.47	-4.00	33.47	54.00	-20.53	AVG
3	2390.000	53.65	-3.96	49.69	74.00	-24.31	peak
4 *	2390.000	42.57	-3.96	38.61	54.00	-15.39	AVG

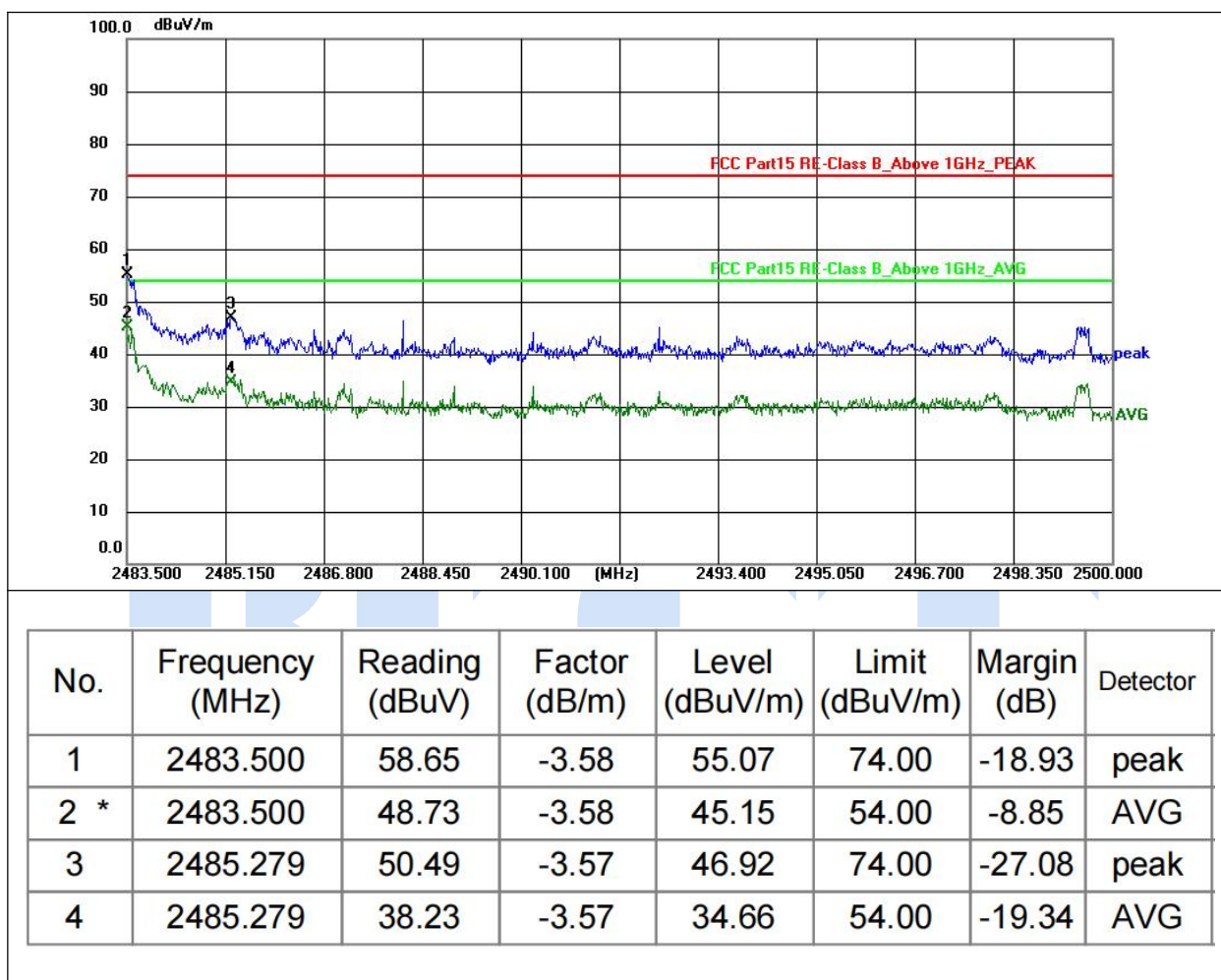
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test channel	2412MHz (Worst case)



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test channel	2462MHz (Worst case)



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test channel	2462MHz (Worst case)



5. Conducted Spurious Emissions

5.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: 558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10:2020
Test Result: PASS

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 conducted power limits. If the transmitter complies with the conducted 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. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.2.Test Setup



5.3.Test Procedure

Reference level measurement

Establish a reference level by using the following procedure:

- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Emission level measurement

Establish an emission level by using the following procedure:

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

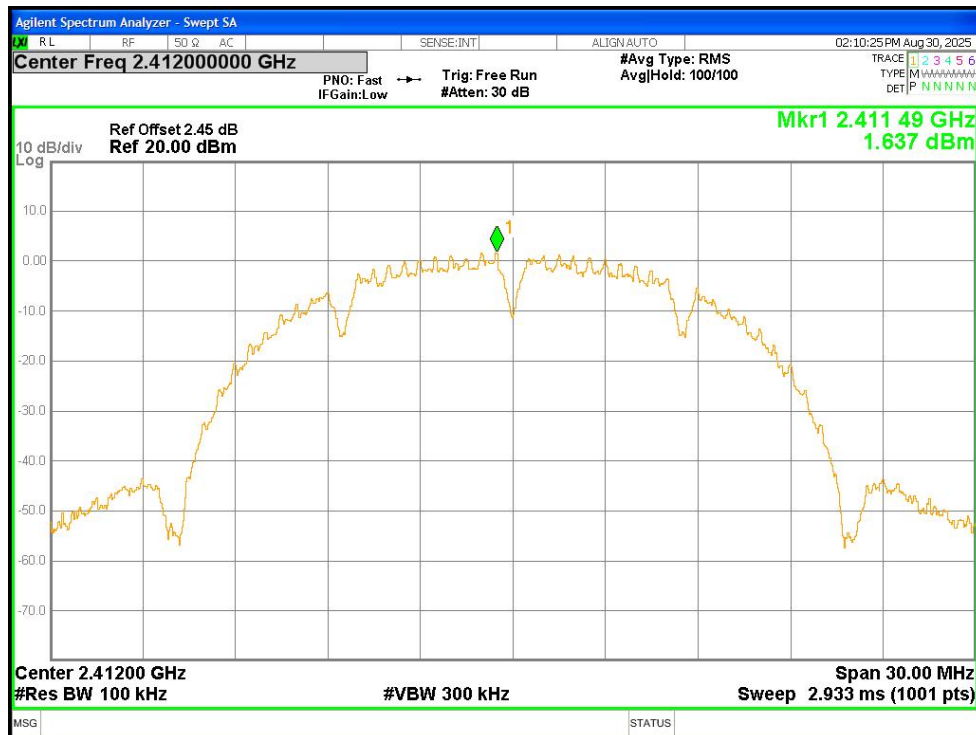
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

5.4. Test Result

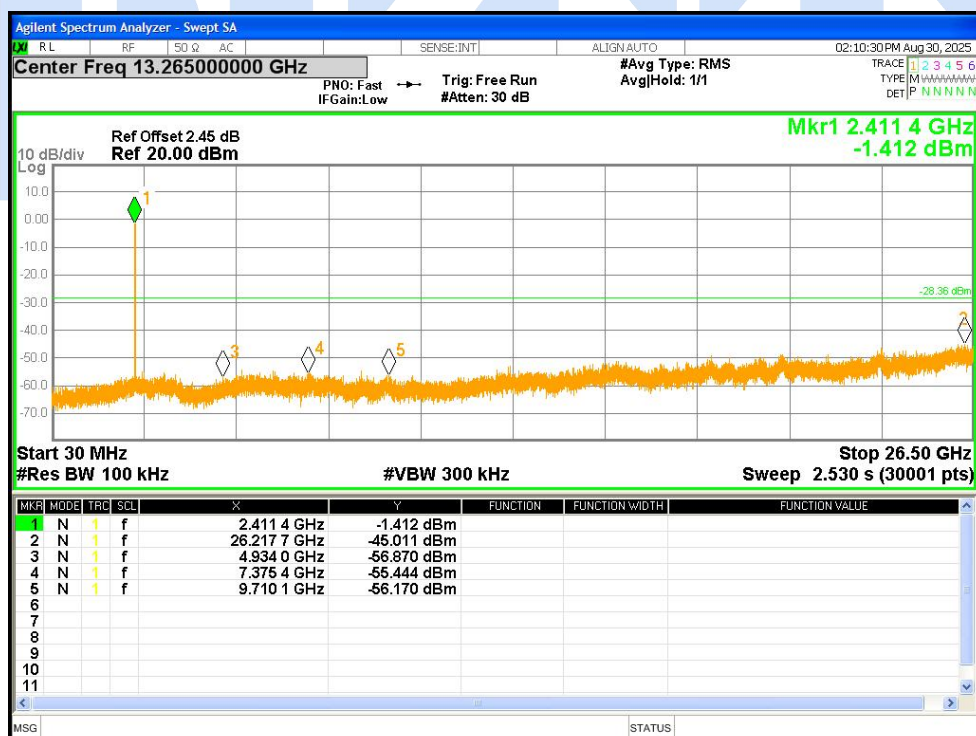
PASS

Note: Please see the test data on the next page

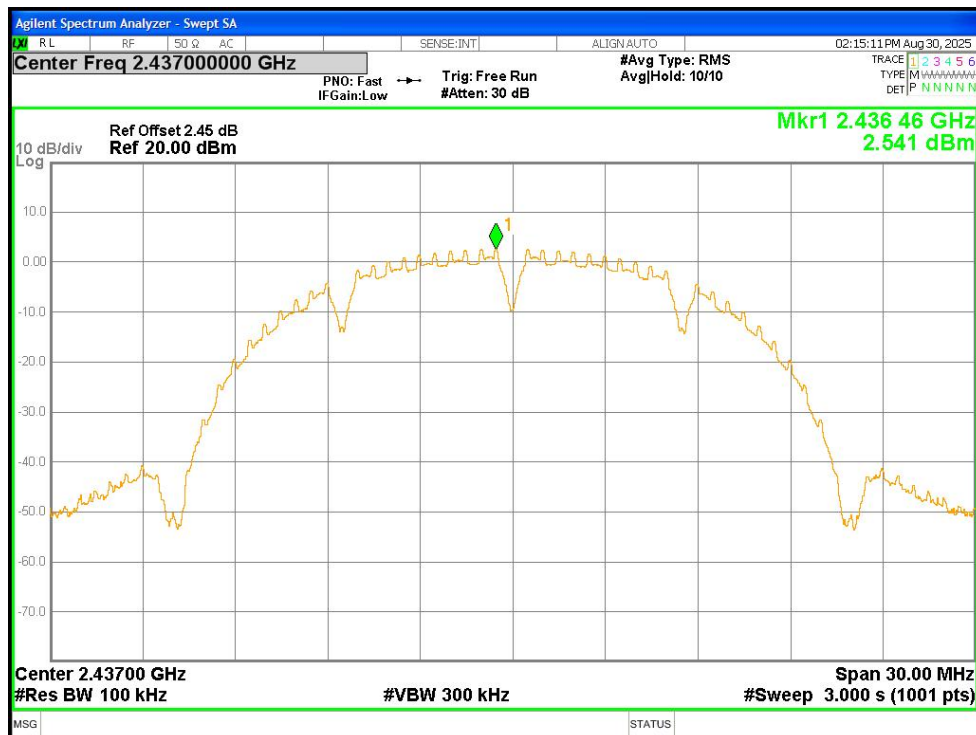




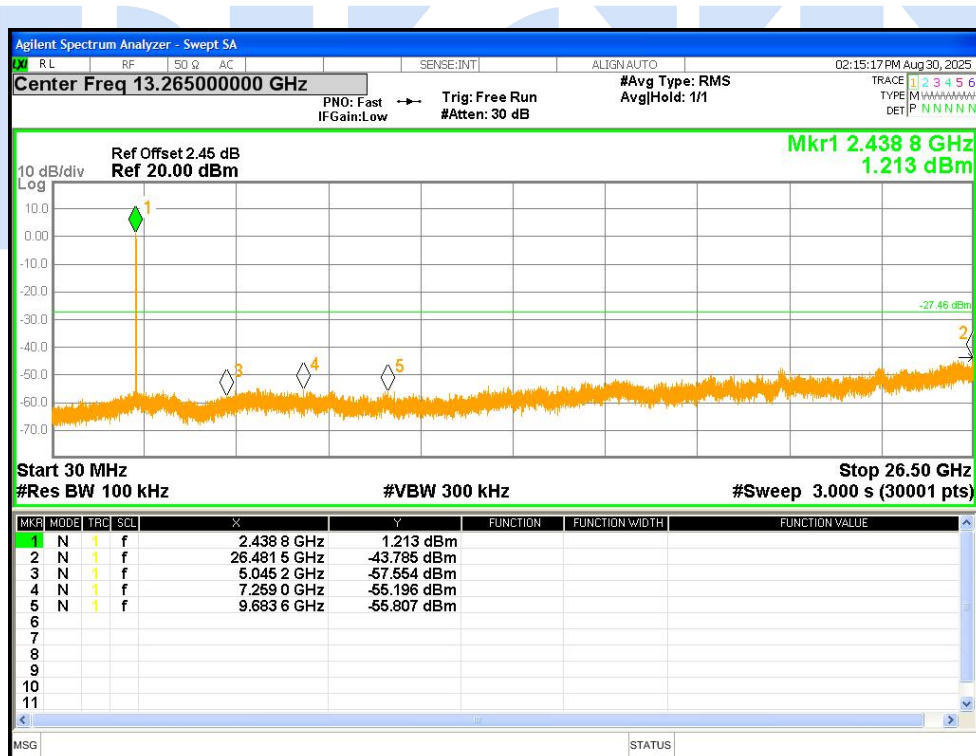
Tx. Spurious NVNT b 2412MHz Ant1 Ref



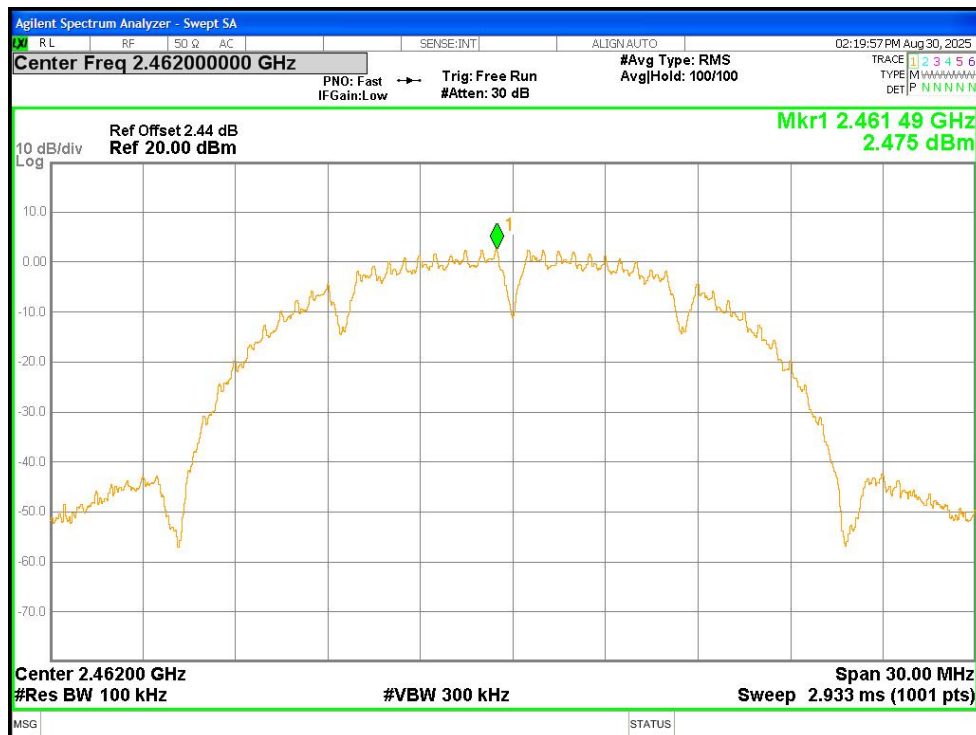
Tx. Spurious NVNT b 2412MHz Ant1 Emission



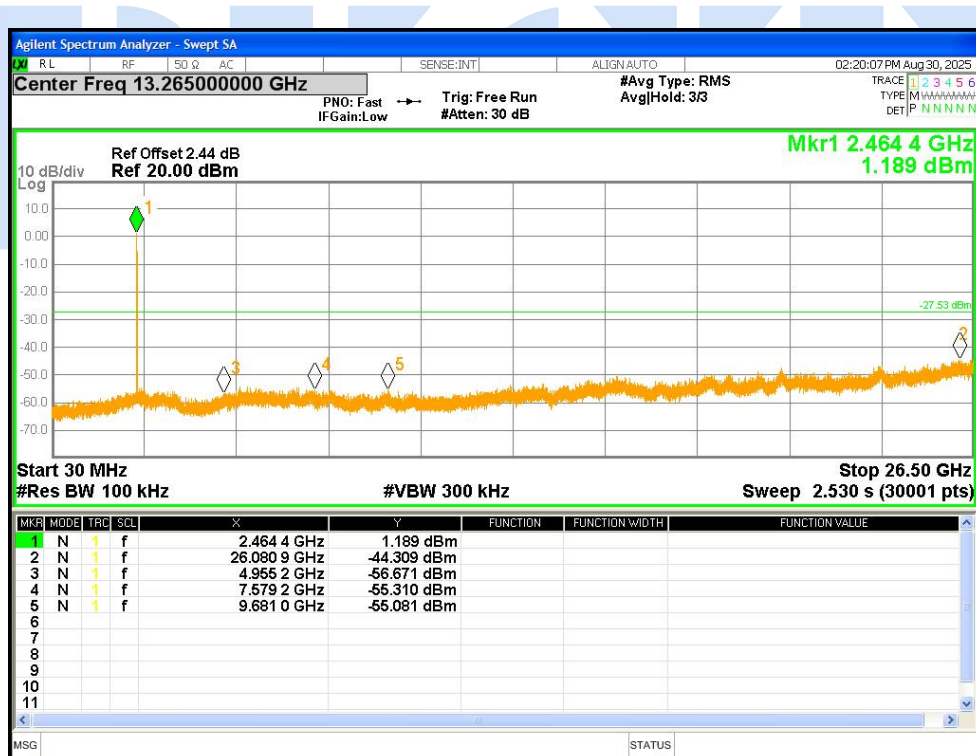
Tx. Spurious NVNT b 2437MHz Ant1 Ref



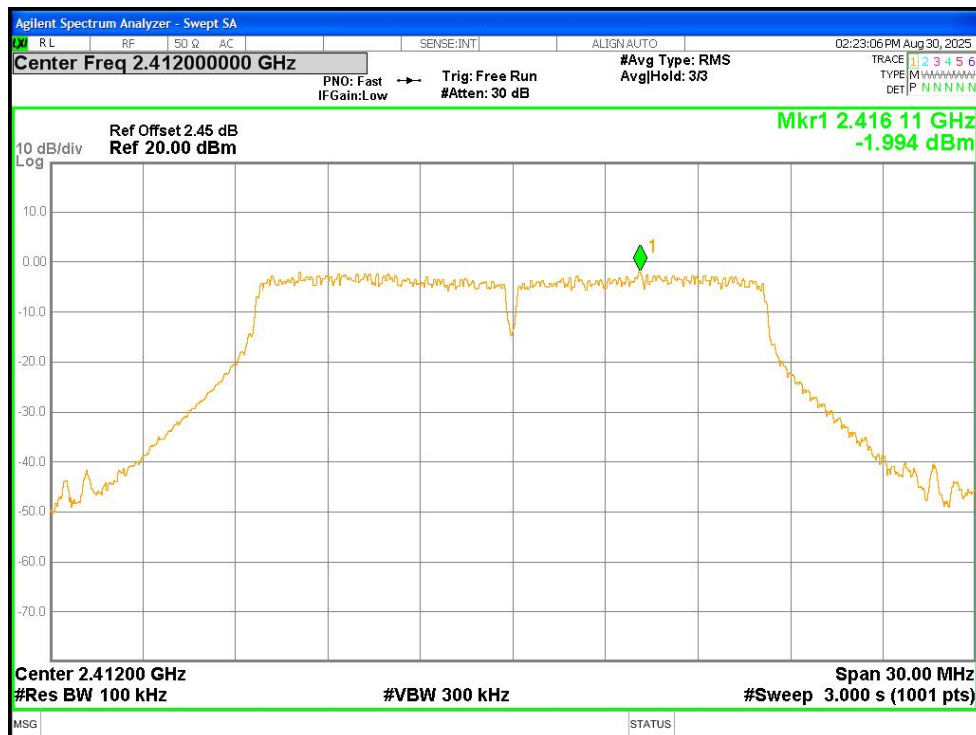
Tx. Spurious NVNT b 2437MHz Ant1 Emission



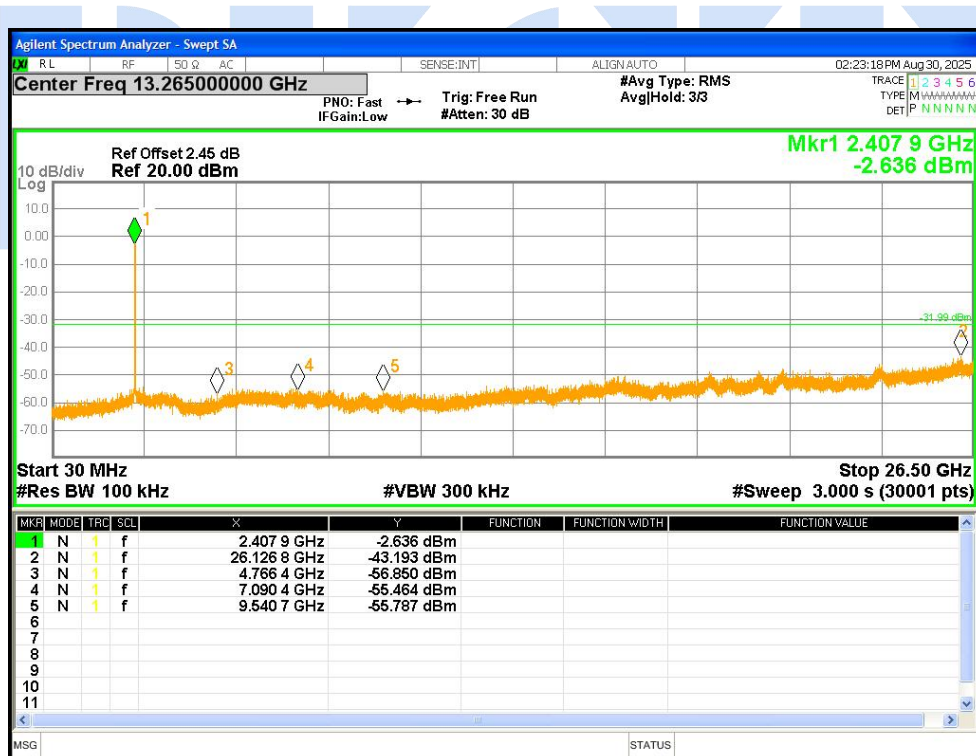
Tx. Spurious NVNT b 2462MHz Ant1 Ref



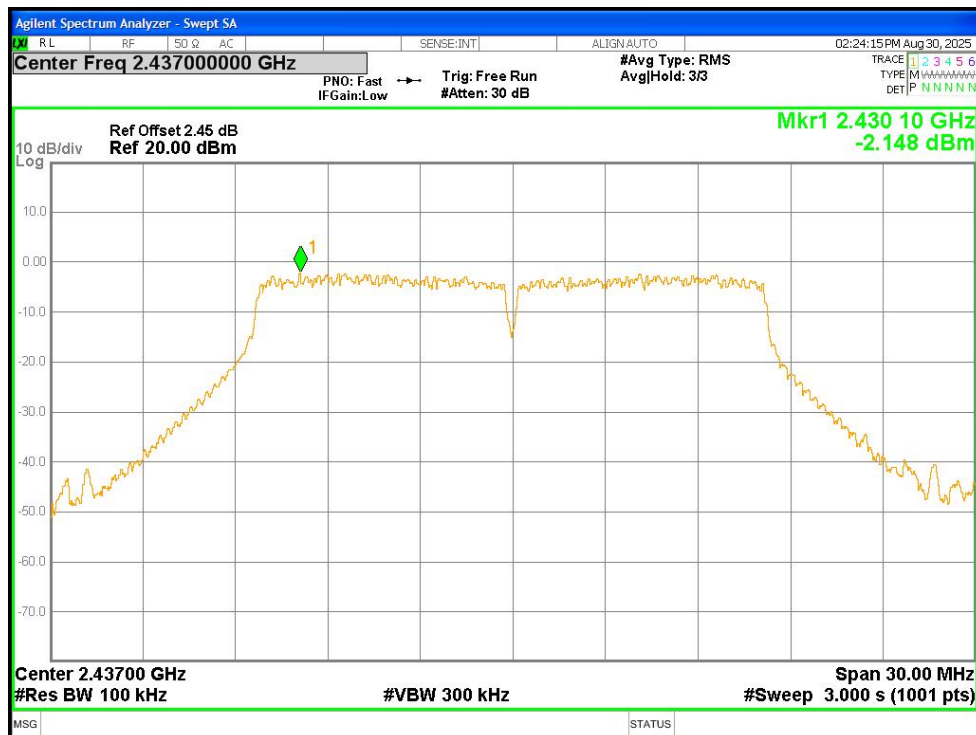
Tx. Spurious NVNT b 2462MHz Ant1 Emission



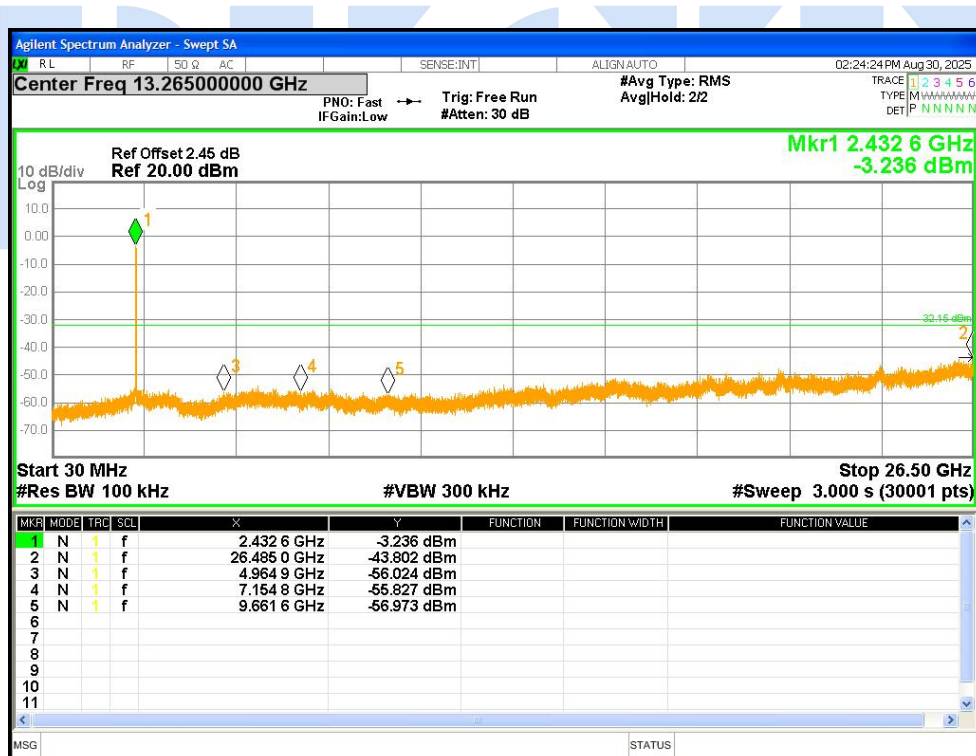
Tx. Spurious NVNT g 2412MHz Ant1 Ref



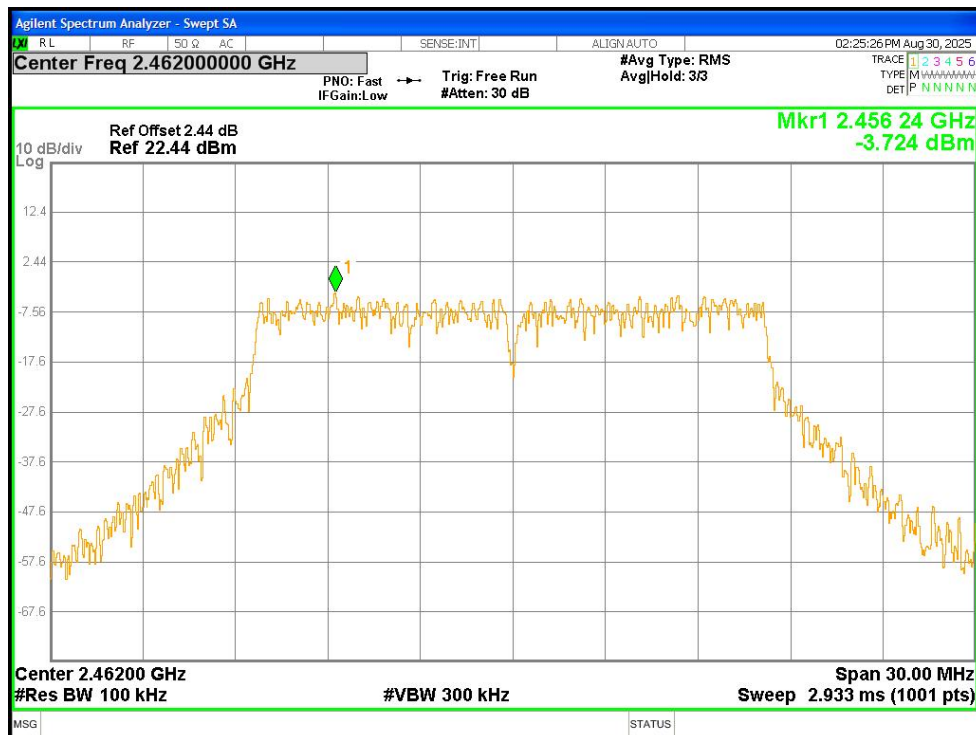
Tx. Spurious NVNT g 2412MHz Ant1 Emission



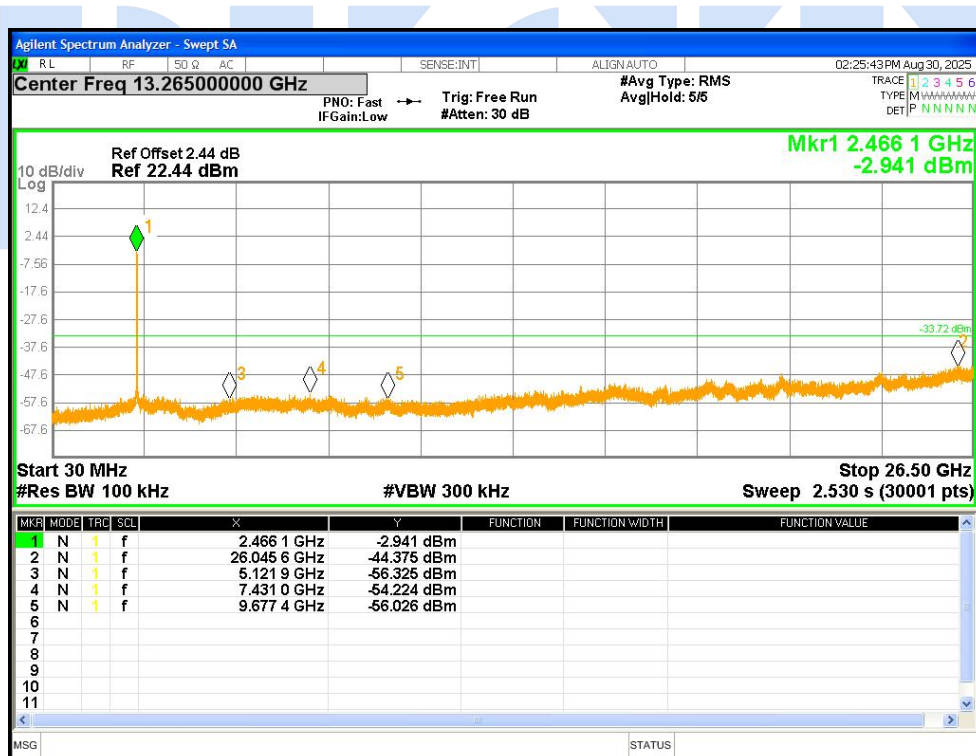
Tx. Spurious NVNT g 2437MHz Ant1 Ref



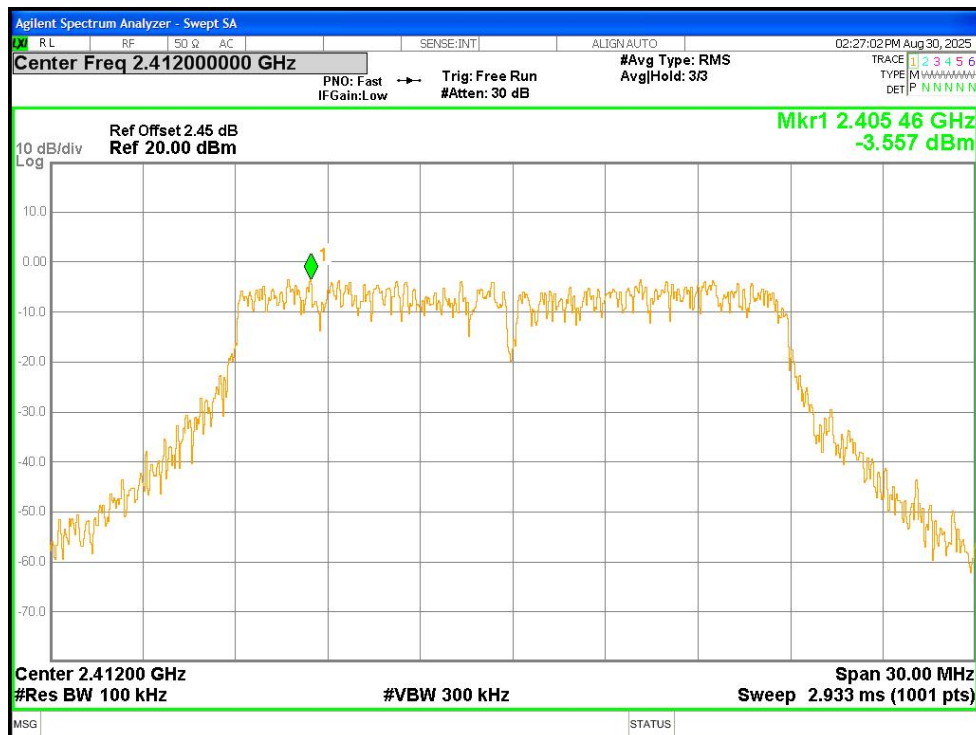
Tx. Spurious NVNT g 2437MHz Ant1 Emission



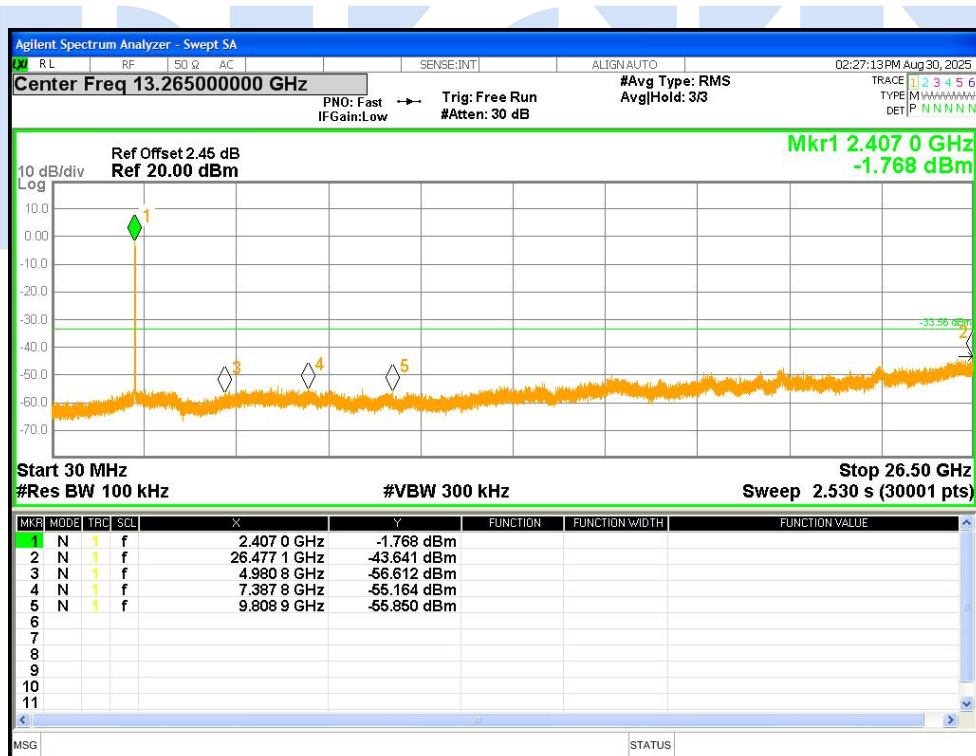
Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission