

APPLICATION FOR CERTIFICATION

On Behalf of

GoodWe Technologies Co., Ltd.

Smart Meterer

Model No. : (1)GMK121 (2)GMK141

Brand : GOODWE

FCC ID : 2AU7J-SMARTMETER

Prepared for

GoodWe Technologies Co., Ltd.

No.90 Zijin Rd., New District, Suzhou, 215011, China

Prepared by

Audix Technology (Wujiang) Co., Ltd. EMC Dept.

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Report No. : ACWE-F2204020

Date of Test : Apr.03~08, 2022

Date of Report : Apr.24, 2022

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TEST REPORT CERTIFICATION

Applicant : GoodWe Technologies Co., Ltd.
Manufacturer : GoodWe Technologies Co., Ltd.
EUT Description : Smart Meter
FCC ID : 2AU7J-SMARTMETER
(A) Model No. : (1)GMK121 (2)GMK141
(B) Brand : GOODWE
(C) Test Voltage : AC 120V/60Hz

Applicable Standards:

Title 47 CFR FCC Part 15 Subpart C
ANSI C63.10:2020
KDB 558074 D01 DTS Meas Guidance v05r02

The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C section 15.247 limits.

The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Date of Test: Apr.03~08, 2022

Date of Report: Apr.24, 2022

Prepared by

:


(Emma Hu/Assistant Administrator)

Approved & Authorized Signer

:


(Ken Lu/Vice General Manager)



1. DESCRIPTION OF VERSION

Edition No.	Date of Rev.	Summary	Report No.
0	Apr.24, 2022	Original Report.	ACWE-F2204020

2. SUMMARY OF MEASUREMENTS AND RESULTS

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

Rule	Description	Results
15.207	Conducted Emission	PASS
15.247(d)/ 15.205	Radiated Band Edge and Radiated Spurious Emission	PASS
15.247(a)(2)	6dB Bandwidth	PASS
15.247(b)(3)	Maximum Output Power	PASS
15.247(d)	Conducted Band Edges and Conducted Spurious Emission	PASS
15.247 (e)	Peak Power Spectral Density	PASS
15.203	Antenna Requirement	Compliance

3. GENERAL INFORMATION

3.1. Description of Device (EUT)

Description	:	Smart Meter
Model No.	:	(1)GMK121 (2)GMK141 Remark: The difference of the models is for sales market.
Test Model	:	GMK141
FCC ID	:	2AU7J-SMARTMETER
Brand	:	GOODWE
Applicant	:	GoodWe Technologies Co., Ltd. No.90 Zijin Rd., New District, Suzhou, 215011, China
Manufacturer	:	GoodWe Technologies Co., Ltd. No.90 Zijin Rd., New District, Suzhou, 215011, China
Date of Receipt of Sample	:	Apr.02, 2022
Date of Test	:	Apr.03~08, 2022

3.2. Antenna Information

Antenna Type	Frequency(MHz)	Gain(dBi)
Sucker Antenna	2400-2500	2.4

3.3. EUT Specification Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation
802.11b	2412-2462	11	DSSS
802.11g			OFDM
802.11n-HT20			
802.11n-HT40	2422-2452	9	

3.4. Duty Cycle

Mode	Duty Cycle	Duty Cycle Factor
802.11b	99%	0
802.11g	95%	0.22
802.11n	93%	0.32

3.5. Tested Supporting System Details (AE)

3.5.1. Notebook

Manufacturer : DELL
 Model Number : INSPIRON N4050

3.6. Description of Test Facility

Name of Firm	:	Audix Technology (Wujiang) Co., Ltd. EMC Dept.
Site Location	:	No. 1289 Jiangxing East Road, the Eastern Part of Wujiang Economic Development Zone Jiangsu China 215200
Test Facilities	:	No.2 Conducted Shielding Enclosure No.2 3m Semi-anechoic Chamber RF Fully Chamber
NVLAP Lab Code	:	200786-0 Valid until on Sep.30, 2022 (NVLAP is a signatory member of ILAC MRA) Remark: This report shall not be imply endorsement, certification or approval by NVLAP, NIST, or any agency of the U.S. Federal Government.

3.7. Measurement Uncertainty

Test Item	Range Frequency	Uncertainty
No.1 Conducted Disturbance Measurement	0.15MHz ~ 30MHz	$\pm 3.32\text{dB}$
Radiated Disturbance Measurement (At 3m Chamber)	30MHz ~ 1GHz	$\pm 4.62\text{dB}$
	1GHz ~ 6GHz	$\pm 4.58\text{dB}$
	6GHz ~ 18GHz	$\pm 4.80\text{dB}$

Remark: Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
6dB Bandwidth	$\pm 11 \times 10^{-4}\text{Hz}$
Output Power	$\pm 0.82\text{dB}$
Radiated Spurious Emission(Below 1GHz)	$\pm 4.04\text{dB}$
Radiated Spurious Emission(Above 1GHz)	$\pm 3.54\text{dB}$
Power Spectral Density	$\pm 1.96\text{dB}$
Unwanted Emission(Conducted)	$\pm 0.32\text{dB}$

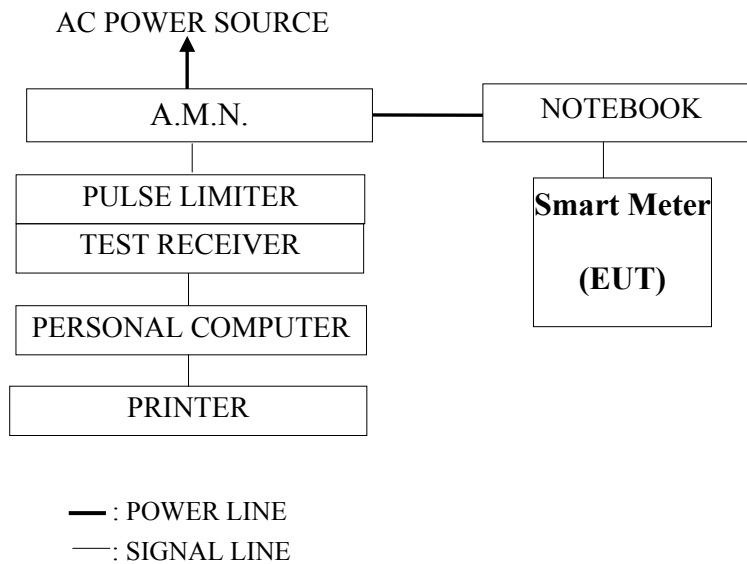
Remark: Uncertainty = $k_{uc}(y)$

4. CONDUCTED EMISSION MEASUREMENT

4.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Period
1.	Test Receiver	R & S	ESCI	100839	2022-03-29	1 Year
2.	A.M.N.	Schwarzbeck	NNLK 8129	8129-164	2022-03-01	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1793-4	2022-03-25	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	101832	2021-12-14	1 Year
5.	Switch	Anritsu	MP59B	6200547937	2021-12-14	1 Year
6.	50Ω Terminator	Tektronis	MS4630B	003-CON	2021-12-14	1 Year
7.	RF Cable	Shengxuan	RG400	BIC50-2	2021-12-14	1 Year
8.	Software	Audix /e3 (9.160323)				

4.2. Block Diagram of Test Setup



4.3. Power line Conducted Emission Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark1: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2: The lower limit applies at the band edges.

4.4. Test Procedure

The measuring process is according to ANSI C63.10-2013 and laboratory internal procedure TKC-301-004. (For FCC Part15 Subpart C)

In the conducted emission measurement, the EUT and all peripheral devices were set up on a non-metallic table which was 0.8 meter height above the ground plane, and 0.4 meter far away from the vertical plane. The mains cable of the EUT connected to one Artificial Main Network(AMN). All other unit of the EUT and AE connected to a second Line Impedance Stabilization Network(L.I.S.N.). The telecommunication cable connected to the AE through a Impedance Stabilization Network(ISN) which terminated a 50Ω resistor. For the measurement, the A.M.N measuring port was terminated by a 50Ω measuring equipment and the second L.I.S.N measuring port was terminated by a 50Ω terminator. All measurements were done between the phase lead and the reference ground, and between the neutral lead and the reference ground. All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver was set at 9 kHz.

The required frequency band (0.15 MHz ~ 30 MHz) was pre-scanned with peak detector; the final measurement was measured with quasi-peak detector and average detector. (If the average limit is met when using a quasi-peak detector, the average detector is unnecessary).

The emission level is calculated automatically by the test system which uses the following equation:

Emission level (dBμV) = Reading (dBμV) + A.M.N factor (dB) + Cable loss (dB).
(Cable loss includes Pulse Att+Cable+Switch)

4.5. Conducted Emission Measurement Results

For FCC Part15 Subpart C

PASSED.

EUT was performed during this section testing and all the test results are attached in next pages.

Test Date: Apr.07, 2022

Temperature: 25.1℃

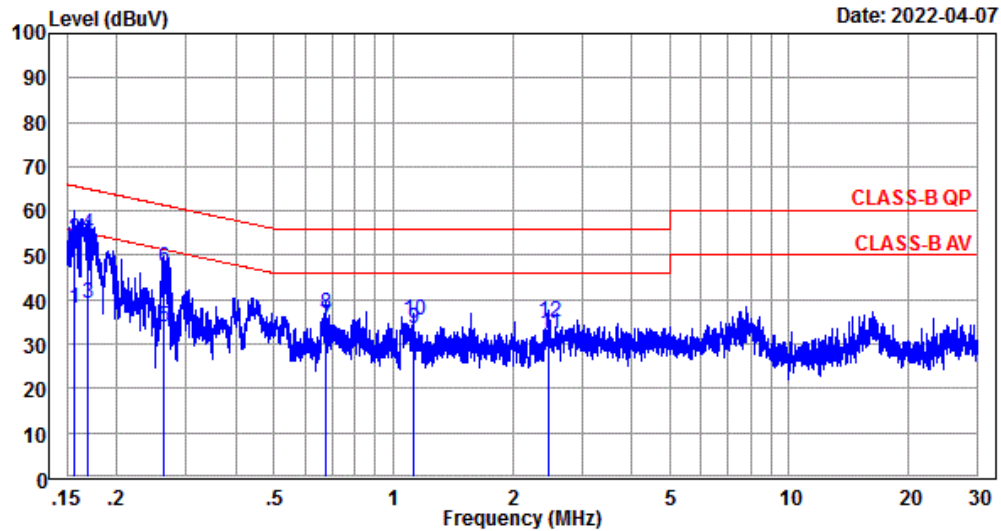
Humidity: 55%

Mode	Test Condition	Reference Test Data No.	
		Neutral	Line
1	TX Mode	# 1	# 2



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 Tel : (0512)63403993 Fax:(0512)63403339

File: D:\TEST DATA\2022\Report\03\C1W2203117\C1W2203117_00001.EMI



Site NO. : NO.2 shielded Room
 AMN / LISN. : NNLK8129-2203
 Limit : CLASS-B QP
 Env. / Ins. : 25.1C&55%/ESCI
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120V/60Hz
 Test Mode : TX Mode
 Memo :

phase.: Neutral Data NO.:1
 Engineer : Weilianlong

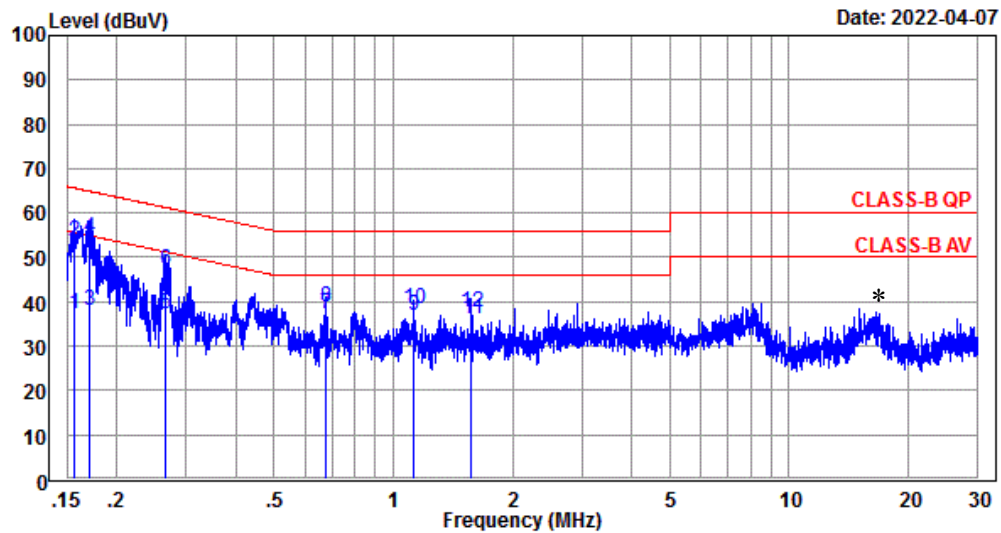
Freq. MHz	AMN. Factor dB	Cable Loss dB	Reading dBuV	Emission Level dBuV	Limits dBuV	Margin dB	Remark
0.156	0.82	9.93	27.39	38.14	55.68	17.54	Average
0.156	0.82	9.93	42.91	53.66	65.68	12.02	QP
0.170	0.58	9.93	28.63	39.14	54.97	15.83	Average
0.170	0.58	9.93	44.41	54.92	64.97	10.05	QP
0.263	0.07	9.93	23.75	33.75	51.34	17.59	Average
0.263	0.07	9.93	37.02	47.02	61.34	14.32	QP
0.677	0.05	9.96	24.37	34.38	46.00	11.62	Average
0.677	0.05	9.96	26.93	36.94	56.00	19.06	QP
1.124	0.05	10.00	23.44	33.49	46.00	12.51	Average
1.124	0.05	10.00	25.33	35.38	56.00	20.62	QP
2.477	0.08	10.04	22.10	32.22	46.00	13.78	Average
2.477	0.08	10.04	25.00	35.12	56.00	20.88	QP

Remarks: Emission Level = AMN factor + Cable loss (Cable + pulse Att + Switch) + Reading



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File: D:\TEST DATA\2022\Report\03\C1W2203117\C1W2203117_00002.EMI



Site NO. : NO.2 shielded Room
 AMN / LISN. : NNLK8129-2203
 Limit : CLASS-B QP
 Env. / Ins. : 25.1C&55%/ESCI
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120V/60Hz
 Test Mode : TX Mode
 Memo :

phase.: Line1 Data NO.:2
 Engineer : Weilianlong

Freq. MHz	AMN. Factor dB	Cable Loss dB	Reading dBuV	Emission Level dBuV	Limits dBuV	Margin dB	Remark
0.157	0.11	9.93	27.36	37.40	55.64	18.24	Average
0.157	0.11	9.93	43.41	53.45	65.64	12.19	QP
0.170	0.10	9.93	28.12	38.15	54.95	16.80	Average
0.170	0.10	9.93	44.21	54.24	64.95	10.71	QP
0.266	0.08	9.93	27.16	37.17	51.23	14.06	Average
0.266	0.08	9.93	37.29	47.30	61.23	13.93	QP
0.676	0.08	9.96	27.24	37.28	46.00	8.72	Average
0.676	0.08	9.96	28.77	38.81	56.00	17.19	QP
1.126	0.10	10.00	26.85	36.95	46.00	9.05	Average
1.126	0.10	10.00	28.25	38.35	56.00	17.65	QP
1.577	0.11	10.02	26.17	36.30	46.00	9.70	Average
1.577	0.11	10.02	27.58	37.71	56.00	18.29	QP

Remarks: Emission Level = AMN factor + Cable loss (Cable + pulse Att + Switch) + Reading

5. RADIATED EMISSION MEASUREMENT

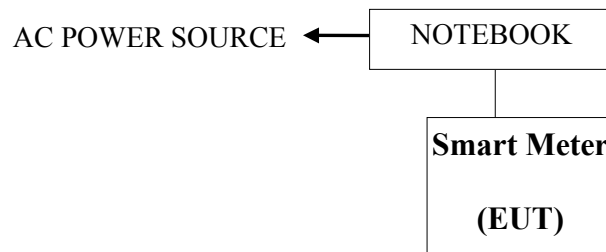
5.1. Test Equipment

The following test equipment was used during the radiated emission measurement:
At 3m Semi-Anechoic Chamber

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Period
1.	Preamplifier	Agilent	8447D	2944A10922	2022-03-25	1 Year
2.	Bi-log Antenna	SCHWARZBECK	VULB 9168	704	2021-08-04	1 Year
3.	Horn Antenna	ETS	3117	00218586	2022-03-11	1 Year
4.	Microwave Preamplifier	Agilent	8449B	3008A02233	2022-04-19	1 Year
5.	EMI Test Receiver	R&S	ESR7	101956	2022-03-29	1 Year
6.	RF Cable	Chengyi+Shengxuan	NM500+ROS400	190945+6000+3000	2021-08-23	1 Year
7.	RF Cable	Chengyi	EMC104-SF-SM-8000/NM-1000	190938+190942	2021-08-23	1 Year
8.	Software	Audix /e3 (9.160323)				

5.2. Block Diagram of Test Setup

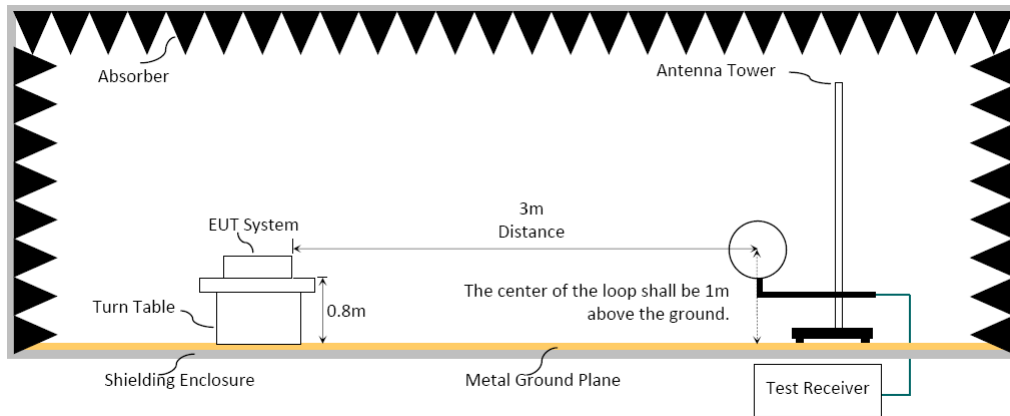
5.2.1. Block Diagram of Test Setup between EUT and simulators



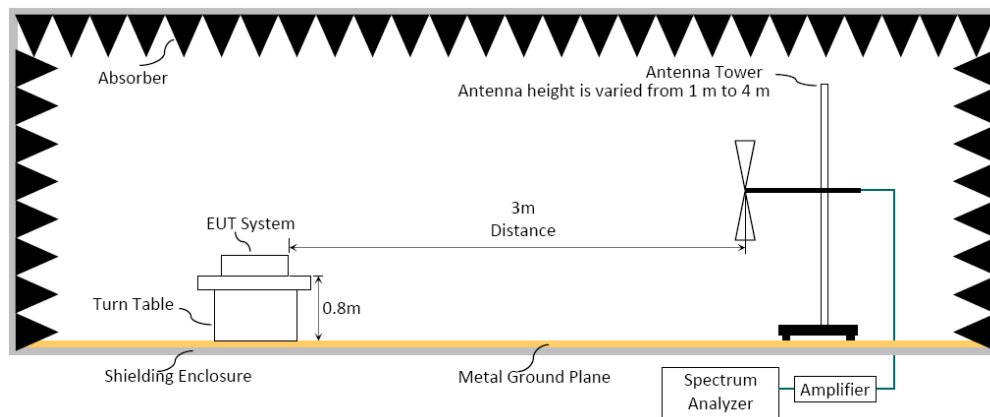
— : POWER LINE

— : SIGNAL LINE

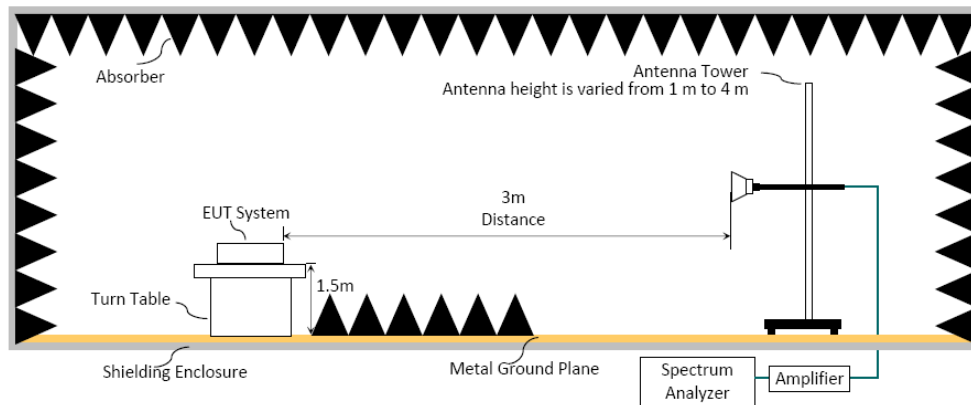
5.2.2. No. 2 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for 9kHz-30MHz



5.2.3. No. 2 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for 30MHz-1GHz



5.2.4. No. 2 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for Above 1GHz



5.3. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance (m)	Limits	
		dB μ V/m	μ V/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

Remark: (1) dB μ V/m = 20 log (μ V/m)

(2)The tighter limit applies to the edge between two frequency bands.

(3)Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(4)Fundamental and emission fall within operation band are exempted from this section.

(5)Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

5.4. Test Procedure

Frequency Range 9kHz~30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level.

In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (9kHz-490kHz)
Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ 25GHz:

The EUT setup on the turn table which has 80 cm (for 30-1000 MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

Frequency below 1 GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1)RBW = 120KHz
- (2)VBW $\geq 3 \times$ RBW.
- (3)Detector = Peak.
- (4)Sweep time = auto.
- (5)Trace mode = max hold.
- (6)Allow sweeps to continue until the trace stabilizes.
- (7)When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Frequency above 1GHz to 10th harmonic (up to 25GHz):

Peak Dector:

- (1)RBW = 1MHz
- (2)VBW $\geq 3 \times$ RBW.
- (3)Detector = Peak.
- (4)Sweep time = auto.
- (5)Trace mode = max hold.
- (6)Allow sweeps to continue until the trace stabilizes.
- (7)When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

5.5. Measurement Results

PASSED

The EUT was tested in restricted bands and all the test results are listed in next page.

The frequency range from 9kHz to 10th harmonic(25GHz) are checked, and the emission (9kHz~30MHz,18GHz~25GHz)not reported for there is no emission be found.

5.5.1. Emission Measurement Results (For Below 1GHz)



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 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2021\9168-704-2108.csv
 Limit : FCC PART 15B QP
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 2.4GHz
 Memo :

Ant. pol.: Horizontal Data NO.:78
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
176.280	17.97	0.92	41.53	27.55	32.87	43.50	10.63	QP
211.690	16.24	0.99	46.53	27.39	36.37	43.50	7.13	QP
317.590	19.55	1.23	37.52	27.33	30.97	46.00	15.03	QP
387.480	20.97	1.29	37.53	27.84	31.95	46.00	14.05	QP
499.880	23.40	1.52	30.59	28.34	27.17	46.00	18.83	QP
800.170	28.20	2.06	37.52	28.30	39.48	46.00	6.52	QP

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2021\9168-704-2108.csv
 Limit : FCC PART 15B QP
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 2.4GHz
 Memo :

Ant. pol.: Vertical Data NO.:77
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
98.620	14.73	0.80	44.52	27.96	32.09	43.50	11.41	QP
176.980	17.90	0.93	34.58	27.54	25.87	43.50	17.63	QP
211.340	16.23	0.99	40.60	27.40	30.42	43.50	13.08	QP
353.340	20.09	1.26	32.52	27.59	26.28	46.00	19.72	QP
399.370	21.28	1.30	43.53	27.93	38.18	46.00	7.82	QP
800.120	28.20	2.06	31.52	28.30	33.48	46.00	12.52	QP

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

5.5.2. Emission Measurement Results (For Above 1GHz)

Mode	802.11b	Frequency	TX 2412MHz
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Audix Technology (Wu Jiang) Co.,Ltd
 No.1289,Jiang Xing East Road,The Eastern Part of WuJiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber	Ant. pol.: Horizontal	Data NO.:51
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C PK		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11b 2412MHz		
Memo :		

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
1203.140	28.61	2.75	41.79	35.70	37.45	54.00	16.55	Average
1204.000	28.61	2.75	47.89	35.70	43.55	74.00	30.45	Peak
4823.900	34.03	5.80	40.27	33.79	46.31	54.00	7.69	Average
4825.000	34.03	5.80	44.47	33.79	50.51	74.00	23.49	Peak
7235.148	35.55	7.68	40.56	33.51	50.28	54.00	3.72	Average
7239.000	35.55	7.70	44.00	33.51	53.74	74.00	20.26	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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 No.1289,Jiang Xing East Road,The Eastern Part of Wujiang
 Economic Development Zone,JiangSu,China
 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2412MHz
 Memo :

Ant. pol.: Vertical Data NO.:50
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4823.950	34.03	5.80	44.04	33.79	50.08	54.00	3.92	Average
4825.000	34.03	5.80	47.34	33.79	53.38	74.00	20.62	Peak
7235.150	35.55	7.68	40.00	33.51	49.72	54.00	4.28	Average
7239.000	35.55	7.70	44.08	33.51	53.82	74.00	20.18	Peak
12059.100	38.72	8.82	38.59	33.77	52.36	54.00	1.64	Average
12067.000	38.73	8.83	44.58	33.76	58.38	74.00	15.62	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11b	Frequency	TX 2462MHz
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Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2462MHz
 Memo :

Ant. pol.: Horizontal Data NO.:57
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4923.960	34.07	5.66	36.05	33.74	42.04	54.00	11.96	Average
4927.000	34.07	5.66	42.34	33.74	48.33	74.00	25.67	Peak
7384.200	35.58	8.19	36.89	33.60	47.06	54.00	6.94	Average
7392.000	35.58	8.22	42.68	33.60	52.88	74.00	21.12	Peak
12305.000	38.82	8.95	40.81	33.41	55.17	74.00	18.83	Peak
12309.060	38.82	8.96	35.48	33.40	49.86	54.00	4.14	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2462MHz
 Memo :

Ant. pol.: Vertical Data NO.:58
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuA	Preamp Factor dB	Emission Level dBuA/m	Limits dBuA/m	Margin dB	Remark
7385.120	35.58	8.20	38.07	33.60	48.25	54.00	5.75	Average
7392.000	35.58	8.22	43.94	33.60	54.14	74.00	19.86	Peak
9840.000	36.91	8.19	44.82	34.93	54.99	74.00	19.01	Peak
9847.920	36.92	8.19	41.23	34.93	51.41	54.00	2.59	Average
12305.000	38.82	8.95	42.67	33.41	57.03	74.00	16.97	Peak
12309.100	38.82	8.96	38.28	33.40	52.66	54.00	1.34	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11g	Frequency	TX 2412MHz
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 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2412MHz
 Memo :

Ant. pol.: Horizontal Data NO.:63
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4927.000	34.07	5.66	50.62	33.74	56.61	74.00	17.39	Peak
4927.500	34.07	5.65	43.03	33.74	49.01	54.00	4.99	Average
7222.000	35.54	7.64	44.55	33.50	54.23	74.00	19.77	Peak
7231.980	35.55	7.67	33.51	33.50	43.23	54.00	10.77	Average
12063.940	38.73	8.82	30.33	33.76	44.12	54.00	9.88	Average
12067.000	38.73	8.83	41.51	33.76	55.31	74.00	18.69	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2412MHz
 Memo :

Ant. pol.: Vertical Data NO.:64
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4825.000	34.03	5.80	43.02	33.79	49.06	74.00	24.94	Peak
4839.850	34.04	5.78	37.81	33.78	43.85	54.00	10.15	Average
7236.280	35.55	7.69	34.98	33.51	44.71	54.00	9.29	Average
7239.000	35.55	7.70	44.79	33.51	54.53	74.00	19.47	Peak
12050.000	38.72	8.82	42.77	33.79	56.52	74.00	17.48	Peak
12059.740	38.72	8.82	32.27	33.77	46.04	54.00	7.96	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11g	Frequency	TX 2462MHz
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Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2462MHz
 Memo :

Ant. pol.: Horizontal Data NO.:59
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4859.000	34.04	5.75	40.69	33.77	46.71	74.00	27.29	Peak
4862.740	34.05	5.75	36.28	33.77	42.31	54.00	11.69	Average
7375.000	35.57	8.16	42.94	33.59	53.08	74.00	20.92	Peak
7380.900	35.58	8.18	34.40	33.60	44.56	54.00	9.44	Average
12730.000	38.99	8.88	40.53	32.77	55.63	74.00	18.37	Peak
12732.180	38.99	8.88	27.42	32.77	42.52	54.00	11.48	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2462MHz
 Memo :

Ant. pol.: Vertical Data NO.:60
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4927.000	34.07	5.66	42.22	33.74	48.21	74.00	25.79	Peak
4928.710	34.07	5.65	36.93	33.74	42.91	54.00	11.09	Average
7385.460	35.58	8.20	34.48	33.60	44.66	54.00	9.34	Average
7392.000	35.58	8.22	43.92	33.60	54.12	74.00	19.88	Peak
10381.470	37.48	8.74	36.96	34.54	48.64	54.00	5.36	Average
10384.000	37.48	8.74	41.07	34.54	52.75	74.00	21.25	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11nHT20	Frequency	TX 2412MHz
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Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2412MHz
 Memo :

Ant. pol.: Horizontal Data NO.:66
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4825.000	34.03	5.80	43.52	33.79	49.56	74.00	24.44	Peak
4829.680	34.03	5.80	37.82	33.79	43.86	54.00	10.14	Average
7234.740	35.55	7.68	35.21	33.51	44.93	54.00	9.07	Average
7239.000	35.55	7.70	44.51	33.51	54.25	74.00	19.75	Peak
12390.000	38.86	9.00	40.80	33.28	55.38	74.00	18.62	Peak
12392.150	38.86	9.00	34.30	33.28	48.88	54.00	5.12	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2412MHz
 Memo :

Ant. pol.: Vertical Data NO.:65
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4264.000	33.71	5.67	44.45	34.07	49.76	74.00	24.24	Peak
4268.710	33.71	5.68	40.26	34.07	45.58	54.00	8.42	Average
7222.000	35.54	7.64	45.02	33.50	54.70	74.00	19.30	Peak
7226.850	35.55	7.66	35.70	33.50	45.41	54.00	8.59	Average
12050.000	38.72	8.82	42.53	33.79	56.28	74.00	17.72	Peak
12053.850	38.72	8.82	31.13	33.78	44.89	54.00	9.11	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11nHT20	Frequency	TX 2462MHz
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 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2462MHz
 Memo :

Ant. pol.: Horizontal Data NO.:70
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
7390.040	35.58	8.21	33.59	33.60	43.78	54.00	10.22	Average
7392.000	35.58	8.22	45.90	33.60	56.10	74.00	17.90	Peak
10639.000	37.68	8.72	40.51	34.19	52.72	74.00	21.28	Peak
10642.740	37.69	8.72	31.70	34.19	43.92	54.00	10.08	Average
12305.000	38.82	8.95	40.61	33.41	54.97	74.00	19.03	Peak
12306.740	38.82	8.96	34.29	33.40	48.67	54.00	5.33	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2462MHz
 Memo :

Ant. pol.: Vertical Data NO.:69
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
7382.480	35.58	8.19	35.35	33.60	45.52	54.00	8.48	Average
7392.000	35.58	8.22	46.72	33.60	56.92	74.00	17.08	Peak
9840.000	36.91	8.19	42.62	34.93	52.79	74.00	21.21	Peak
9843.740	36.91	8.19	32.12	34.93	42.29	54.00	11.71	Average
12300.280	38.82	8.95	29.94	33.41	44.30	54.00	9.70	Average
12305.000	38.82	8.95	41.85	33.41	56.21	74.00	17.79	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11nHT40	Frequency	TX 2422MHz
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Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT40 2422MHz
 Memo :

Ant. pol.: Horizontal Data NO.:71
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4842.000	34.04	5.78	42.57	33.78	48.61	74.00	25.39	Peak
4846.740	34.04	5.77	31.18	33.78	37.21	54.00	16.79	Average
7271.480	35.55	7.81	32.28	33.53	42.11	54.00	11.89	Average
7273.000	35.55	7.81	42.38	33.53	52.21	74.00	21.79	Peak
12288.000	38.82	8.95	40.28	33.43	54.62	74.00	19.38	Peak
12289.730	38.82	8.95	28.79	33.43	43.13	54.00	10.87	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT40 2422MHz
 Memo :

Ant. pol.: Vertical Data NO.:72
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
4842.000	34.04	5.78	43.12	33.78	49.16	74.00	24.84	Peak
4846.920	34.04	5.77	31.93	33.78	37.96	54.00	16.04	Average
7273.000	35.55	7.81	43.53	33.53	53.36	74.00	20.64	Peak
7276.480	35.56	7.83	31.31	33.53	41.17	54.00	12.83	Average
11455.000	38.17	8.27	40.02	33.77	52.69	74.00	21.31	Peak
11456.850	38.17	8.27	30.52	33.77	43.19	54.00	10.81	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11nHT40	Frequency	TX 2452MHz
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 Tel : (0512)63403993 Fax:(0512)63403339

Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT40 2452MHz
 Memo :

Ant. pol.: Horizontal Data NO.:75
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
7358.000	35.57	8.10	41.32	33.58	51.41	74.00	22.59	Peak
7359.820	35.57	8.11	30.02	33.58	40.12	54.00	13.88	Average
11047.000	37.93	8.19	40.18	33.71	52.59	74.00	21.41	Peak
11049.830	37.93	8.19	27.88	33.71	40.29	54.00	13.71	Average
12458.000	38.88	9.04	40.32	33.18	55.06	74.00	18.94	Peak
12459.630	38.88	9.04	29.02	33.18	43.76	54.00	10.24	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT40 2452MHz
 Memo :

Ant. pol.: Vertical Data NO.:76
 Engineer : GuoXiaoBo

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
7341.000	35.57	8.05	42.09	33.57	52.14	74.00	21.86	Peak
7346.250	35.57	8.06	29.90	33.57	39.96	54.00	14.04	Average
10622.000	37.67	8.75	40.40	34.21	52.61	74.00	21.39	Peak
10628.740	37.68	8.74	27.19	34.20	39.41	54.00	14.59	Average
12254.000	38.80	8.93	41.18	33.48	55.43	74.00	18.57	Peak
12256.960	38.80	8.93	28.99	33.48	43.24	54.00	10.76	Average

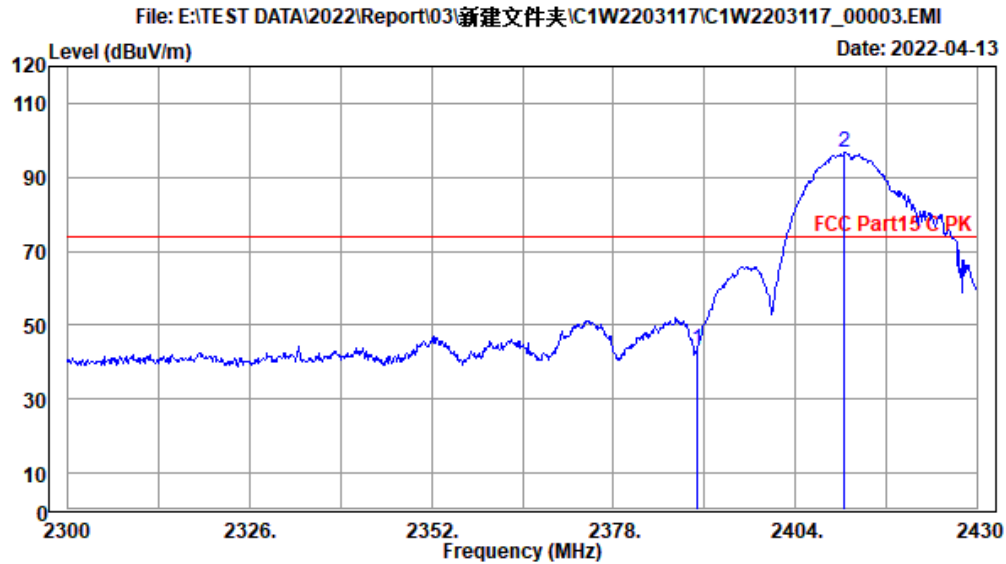
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

5.5.3. Spurious Emission Measurement Results in Band Edge Emission

Mode	802.11b	Frequency	TX 2412MHz
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Site NO. : NO.2 3M chamber Ant. pol.: Horizontal Data NO.:3
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv Engineer : GuoXiaoBo
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2412MHz
 Memo :

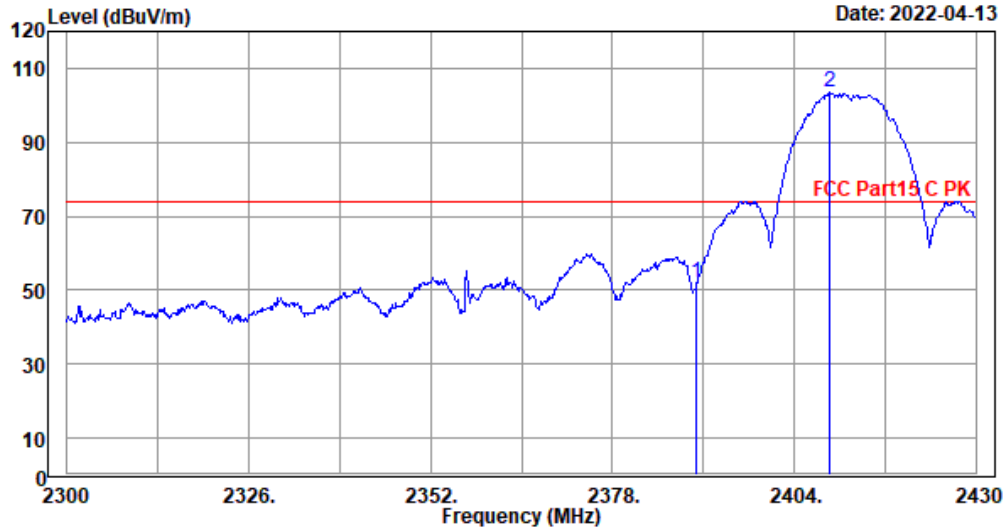
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2389.960	32.31	3.82	42.32	35.25	43.20	74.00	30.80	Peak
2411.020	32.33	3.84	95.77	35.22	96.72	74.00	-22.72	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00001.EMI



Site NO. :	NO.2 3M chamber	Ant. pol.:	Vertical	Data NO.:	1
Dis. / Ant. :	D:\factor\2022\3117-586-2203.csv	Engineer :	GuoXiaoBo		
Limit :	FCC Part15 C PK				
Env. / Ins. :	22.2°C&52%/ESAR				
EUT :	Smart Meter				
M/N :	GMK141				
Power Rating :	120Vac/60Hz				
Test Mode :	TX 11b 2412MHz				
Memo :					

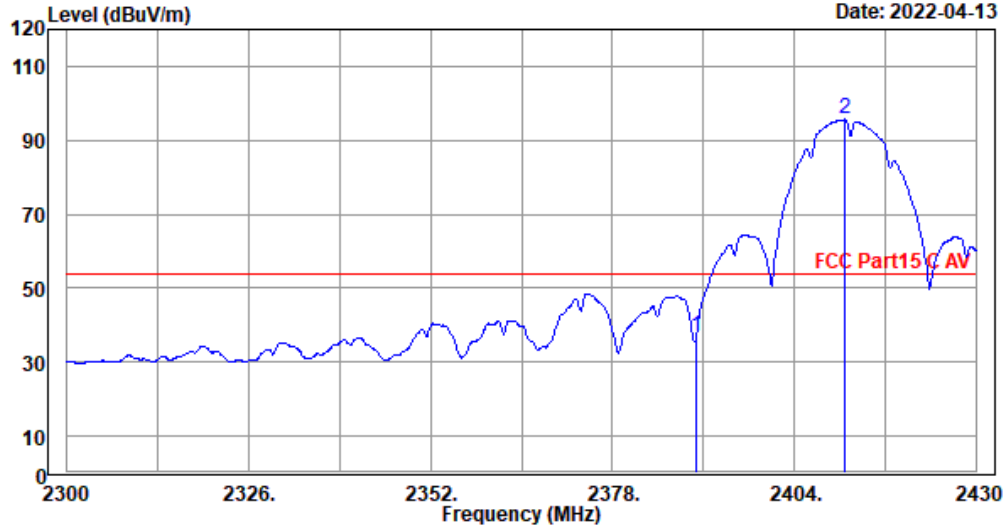
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.31	3.82	51.07	35.25	51.95	74.00	22.05	Peak
2409.070	32.33	3.84	102.43	35.23	103.37	74.00	-29.37	Peak

Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\1C1W2203117\1C1W2203117_00004.EMI



Site NO. : NO.2 3M chamber	Ant. pol.: Horizontal	Data NO.:4
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11b 2412MHz		
Memo :		

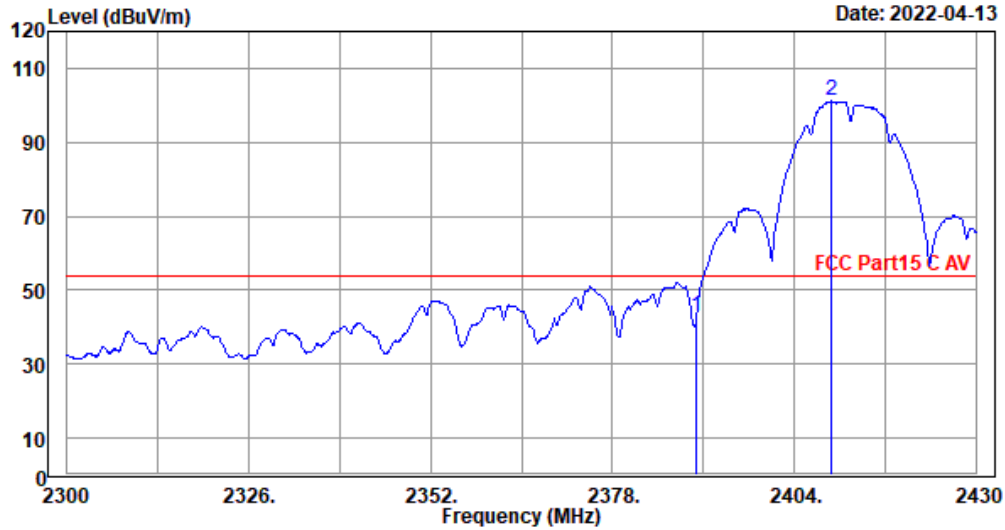
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.31	3.82	36.18	35.25	37.06	54.00	16.94	Average
2411.150	32.33	3.84	94.69	35.22	95.64	54.00	-41.64	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Site NO. : NO.2 3M chamber	Ant. pol.: Vertical	Data NO.:2
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11b 2412MHz		
Memo :		

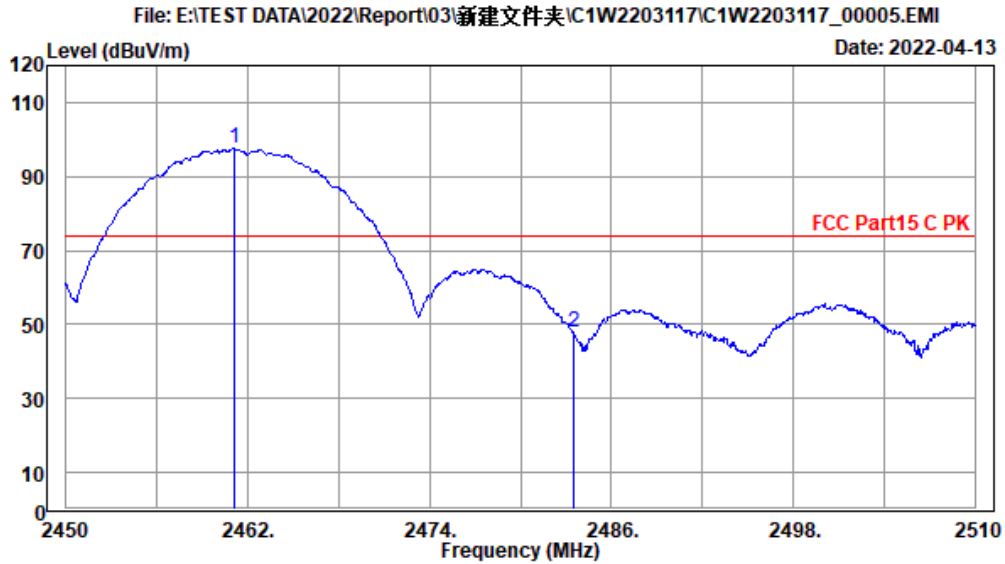
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.31	3.82	42.04	35.25	42.92	54.00	11.08	Average
2409.200	32.33	3.84	100.13	35.23	101.07	54.00	-47.07	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11b	Frequency	TX 2462MHz
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Site NO. : NO.2 3M chamber	Ant. pol.: Horizontal	Data NO.:5
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C PK		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11b 2462MHz		
Memo :		

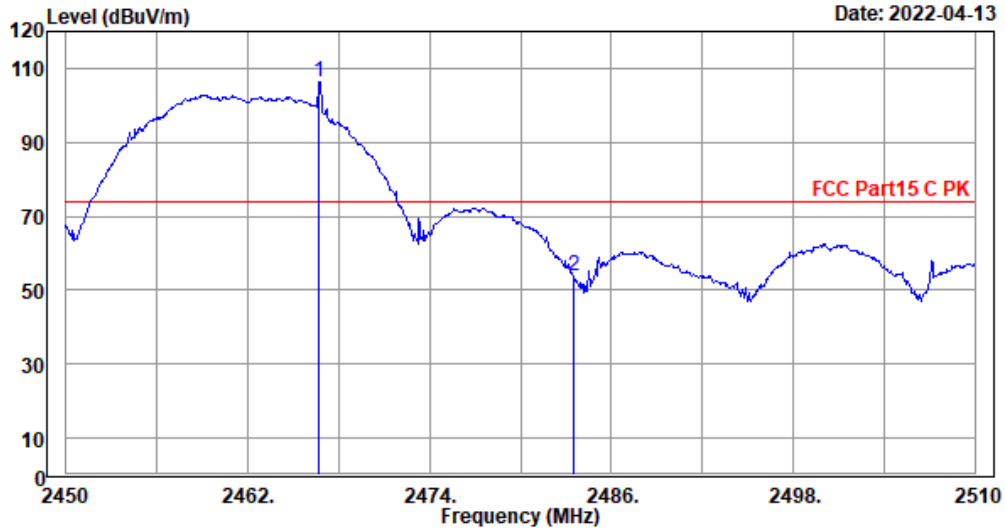
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2461.100	32.37	3.87	96.55	35.17	97.62	74.00	-23.62	Peak
2483.500	32.39	3.88	46.78	35.14	47.91	74.00	26.09	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Site NO. : NO.2 3M chamber	Ant. pol.: Vertical	Data NO.:7
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C PK		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11b 2462MHz		
Memo :		

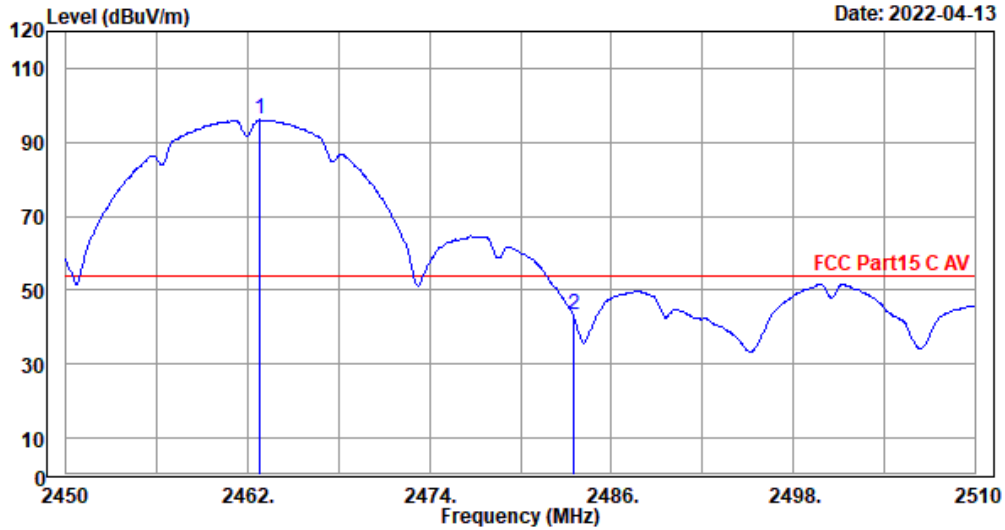
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2466.740	32.37	3.87	105.34	35.16	106.42	74.00	-32.42	Peak
2483.500	32.39	3.88	52.51	35.14	53.64	74.00	20.36	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00006.EMI



Site NO. : NO.2 3M chamber	Ant. pol.: Horizontal	Data NO.:6
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11b 2462MHz		
Memo :		

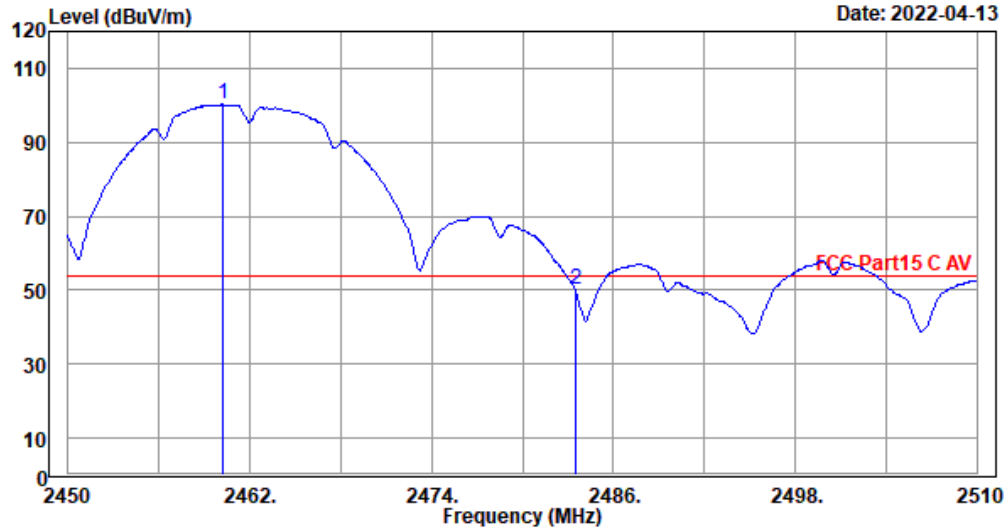
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2462.780	32.37	3.87	94.98	35.16	96.06	54.00	-42.06	Average
2483.500	32.39	3.88	42.05	35.14	43.18	54.00	10.82	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Site NO. : NO.2 3M chamber	Ant. pol.: Vertical	Data NO.:8
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11b 2462MHz		
Memo :		

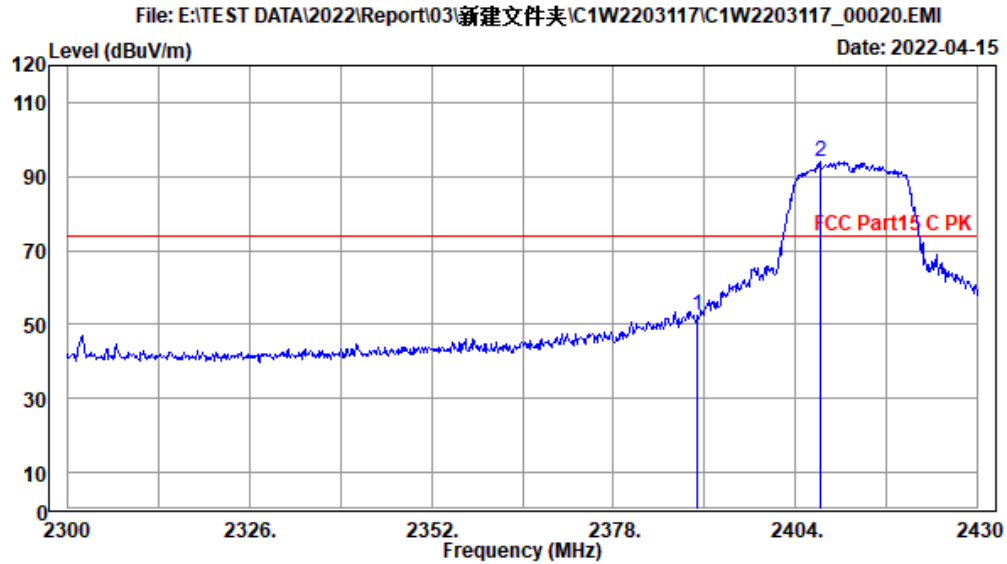
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2460.260	32.37	3.87	99.08	35.17	100.15	54.00	-46.15	Average
2483.500	32.39	3.88	48.87	35.14	50.00	54.00	4.00	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11g	Frequency	TX 2412MHz
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Site NO. : NO.2 3M chamber Ant. pol.: Horizontal Data NO.:20
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv Engineer : GuoXiaoBo
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2412MHz
 Memo :

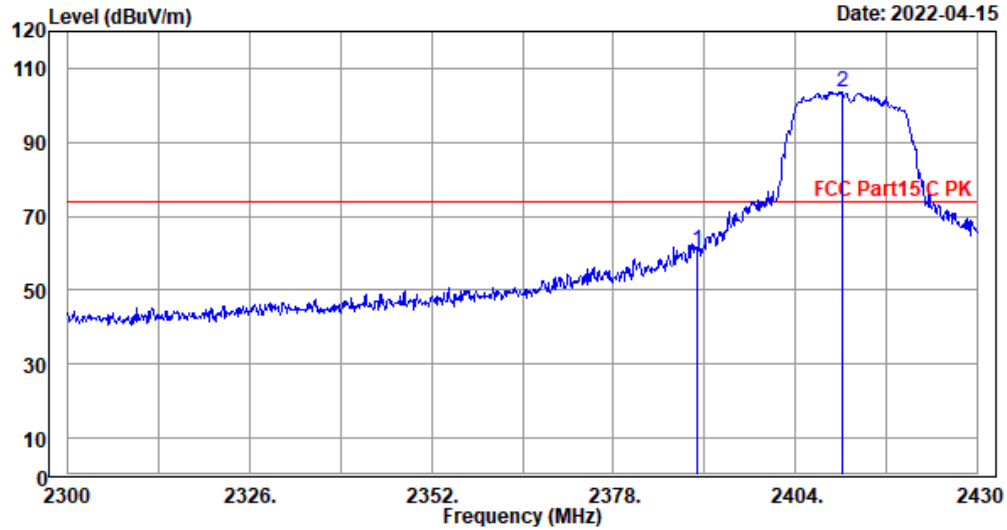
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2389.960	32.31	3.82	51.39	35.25	52.27	74.00	21.73	Peak
2407.510	32.33	3.83	93.23	35.23	94.16	74.00	-20.16	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Site NO. : NO.2 3M chamber	Ant. pol.: Vertical	Data NO.:18
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C PK		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11g 2412MHz		
Memo :		

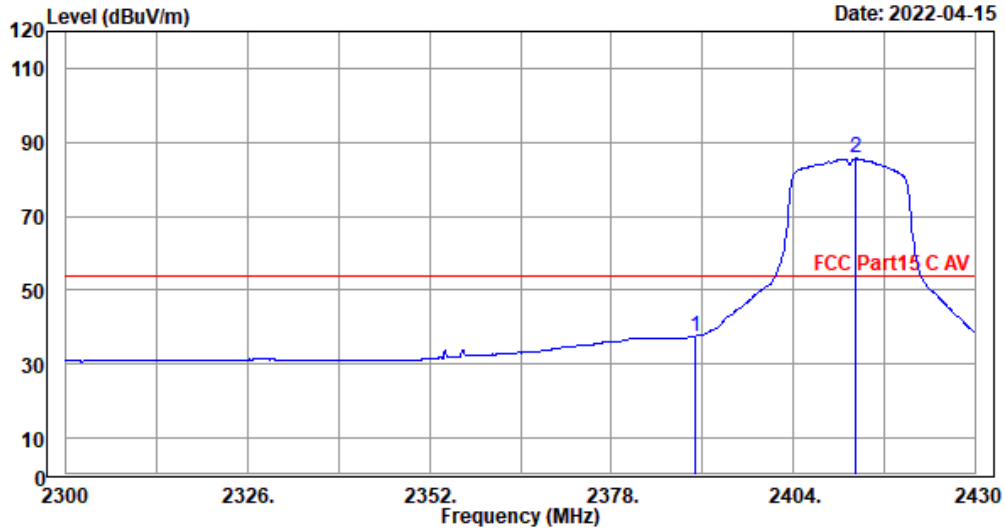
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2389.960	32.31	3.82	59.99	35.25	60.87	74.00	13.13	Peak
2410.760	32.33	3.84	102.77	35.22	103.72	74.00	-29.72	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00021.EMI



Site NO. : NO.2 3M chamber	Ant. pol.: Horizontal	Data NO.:21
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11g 2412MHz		
Memo :		

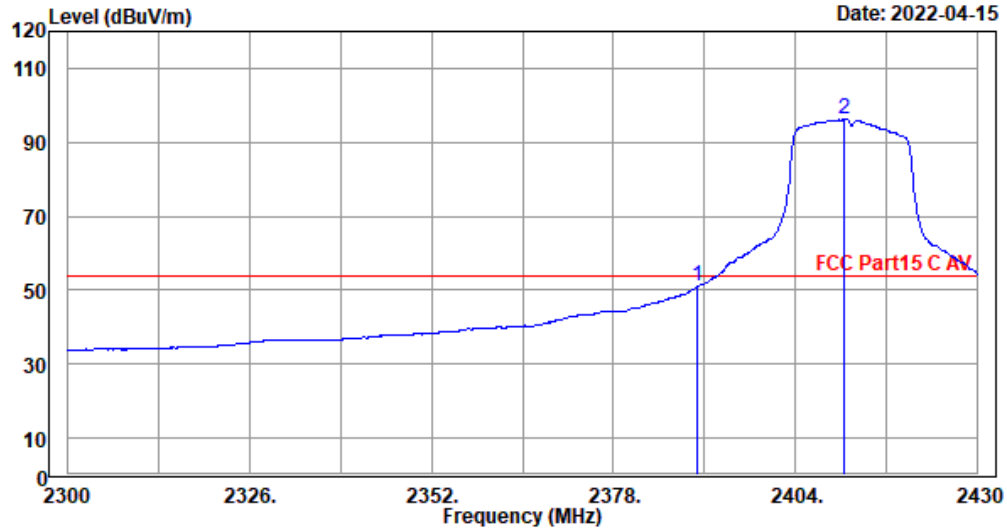
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.31	3.82	36.70	35.25	37.58	54.00	16.42	Average
2412.840	32.33	3.84	84.67	35.22	85.62	54.00	-31.62	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Site NO. : NO.2 3M chamber	Ant. pol.: Vertical	Data NO.:19
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11g 2412MHz		
Memo :		

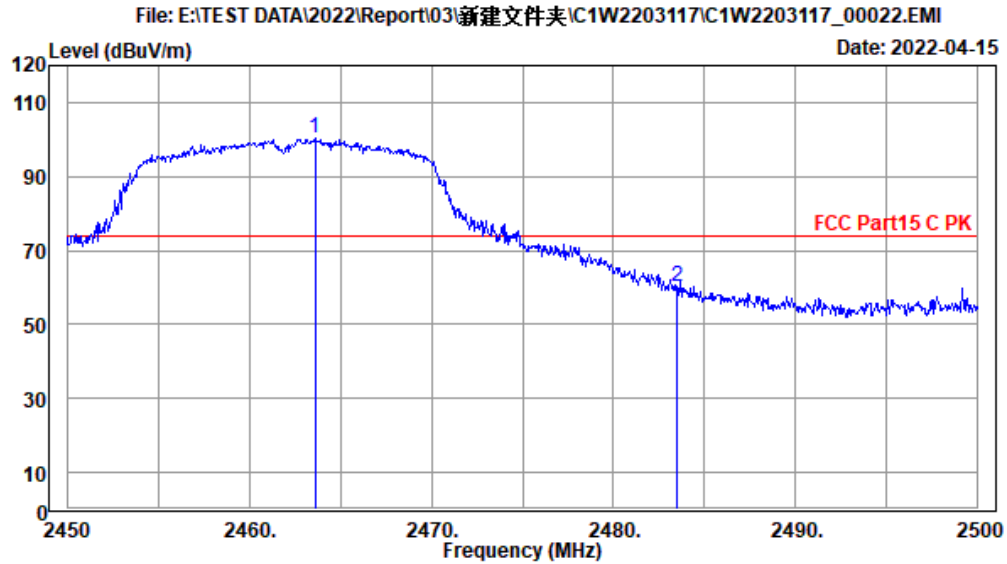
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2389.960	32.31	3.82	50.00	35.25	50.88	54.00	3.12	Average
2411.020	32.33	3.84	95.27	35.22	96.22	54.00	-42.22	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11g	Frequency	TX 2462MHz
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Site NO. : NO.2 3M chamber Ant. pol.: Horizontal Data NO.:22
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv Engineer : GuoXiaoBo
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2462MHz
 Memo :

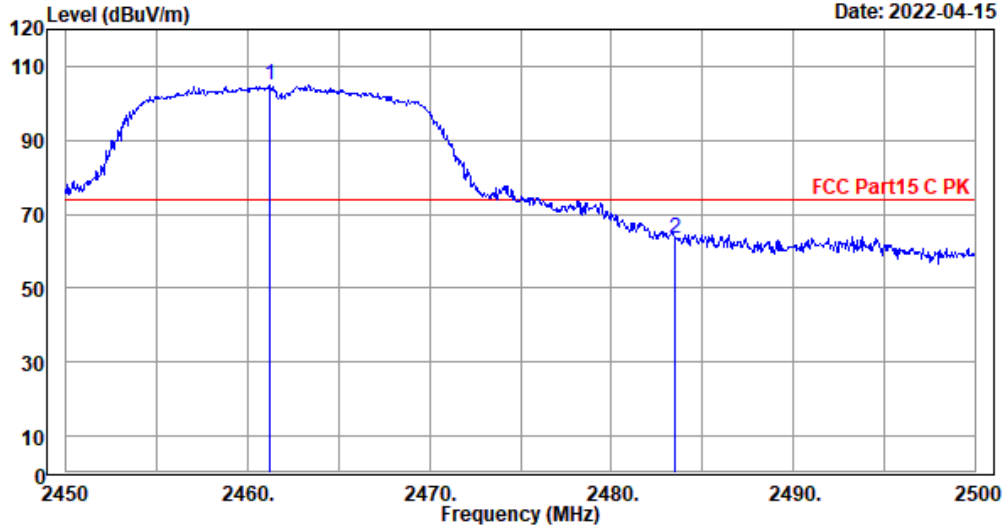
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2463.600	32.37	3.87	99.15	35.16	100.23	74.00	-26.23	Peak
2483.500	32.39	3.88	59.17	35.14	60.30	74.00	13.70	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Site NO. : NO.2 3M chamber	Ant. pol.: Vertical	Data NO.:26
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C PK		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11g 2462MHz		
Memo :		

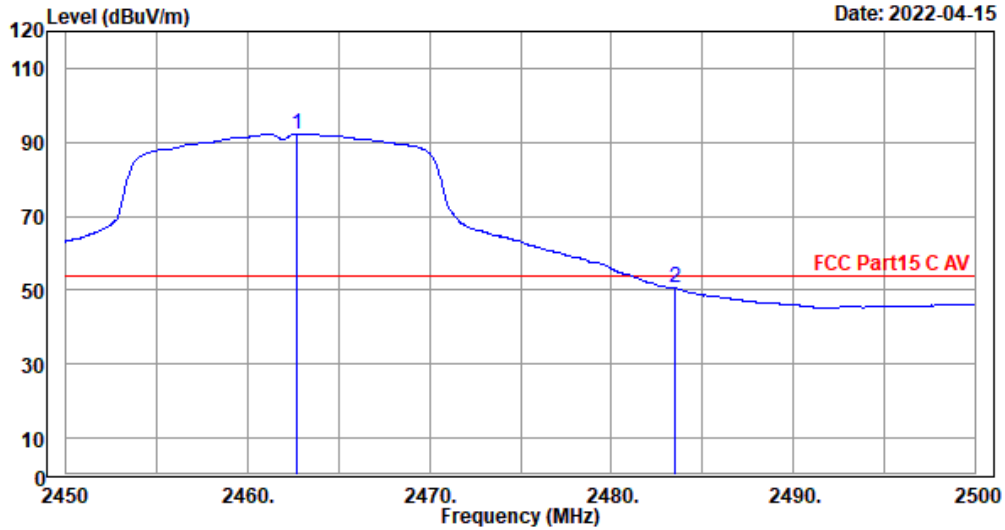
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2461.200	32.37	3.87	103.78	35.17	104.85	74.00	-30.85	Peak
2483.500	32.39	3.88	62.10	35.14	63.23	74.00	10.77	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00023.EMI



Site NO. : NO.2 3M chamber	Ant. pol.: Horizontal	Data NO.:23
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11g 2462MHz		
Memo :		

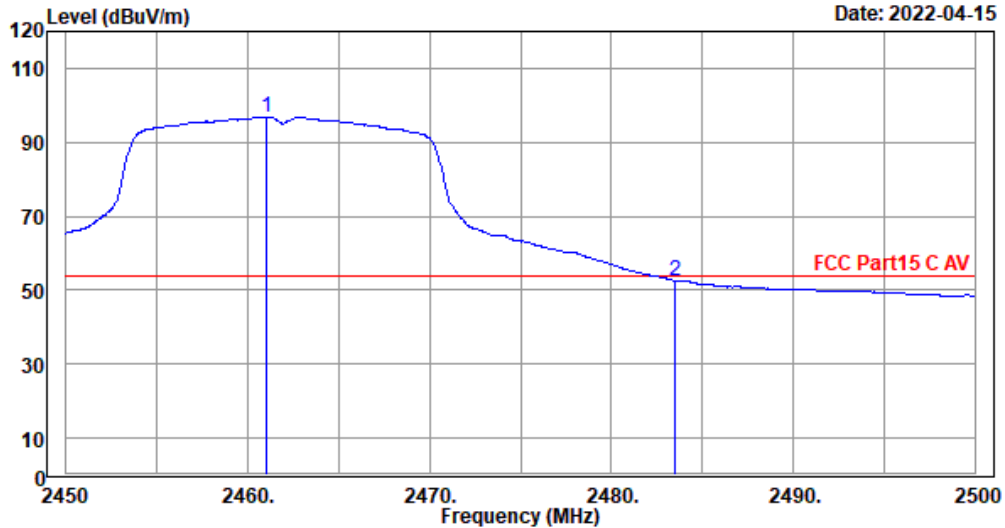
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2462.750	32.37	3.87	91.26	35.16	92.34	54.00	-38.34	Average
2483.500	32.39	3.88	49.46	35.14	50.59	54.00	3.41	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00027.EMI



Site NO. : NO.2 3M chamber	Ant. pol.: Vertical	Data NO.:27
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11g 2462MHz		
Memo :		

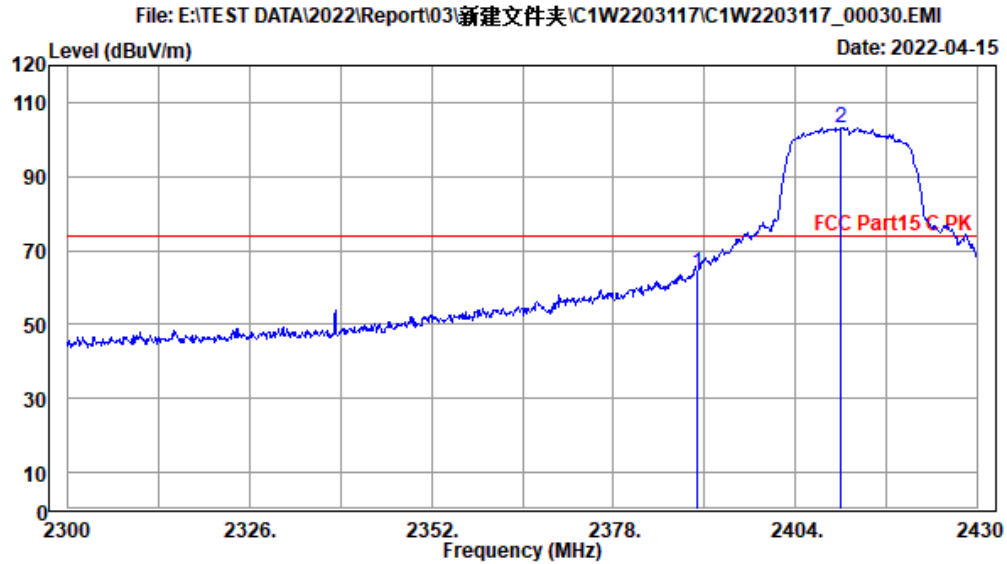
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2461.050	32.37	3.87	95.75	35.17	96.82	54.00	-42.82	Average
2483.500	32.39	3.88	51.53	35.14	52.66	54.00	1.34	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11nHT20	Frequency	TX 2412MHz
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Site NO. : NO.2 3M chamber Ant. pol.: Horizontal Data NO.:30
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv Engineer : GuoXiaoBo
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2412MHz
 Memo :

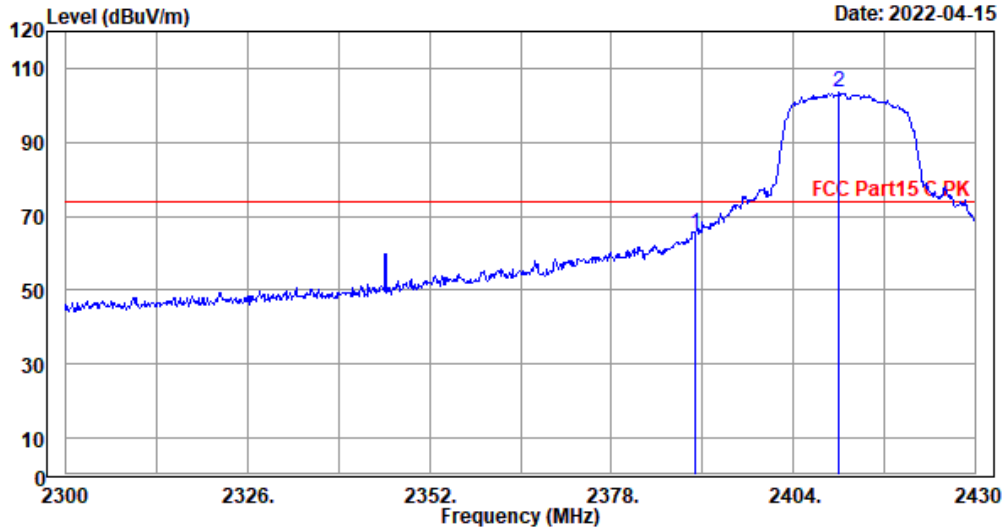
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2390.000	32.31	3.82	62.99	35.25	63.87	74.00	10.13	Peak
2410.500	32.33	3.84	102.24	35.22	103.19	74.00	-29.19	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00028.EMI



Site NO. : NO.2 3M chamber	Ant. pol.: Vertical	Data NO.:28
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C PK		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11nHT20 2412MHz		
Memo :		

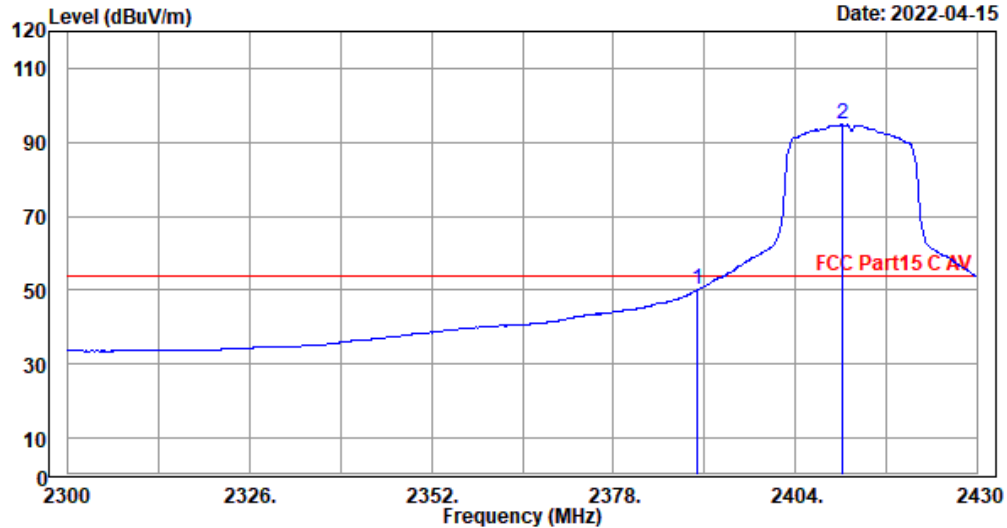
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2389.960	32.31	3.82	64.48	35.25	65.36	74.00	8.64	Peak
2410.500	32.33	3.84	102.43	35.22	103.38	74.00	-29.38	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00031.EMI



Site NO. : NO.2 3M chamber	Ant. pol.: Horizontal	Data NO.:31
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11nHT20 2412MHz		
Memo :		

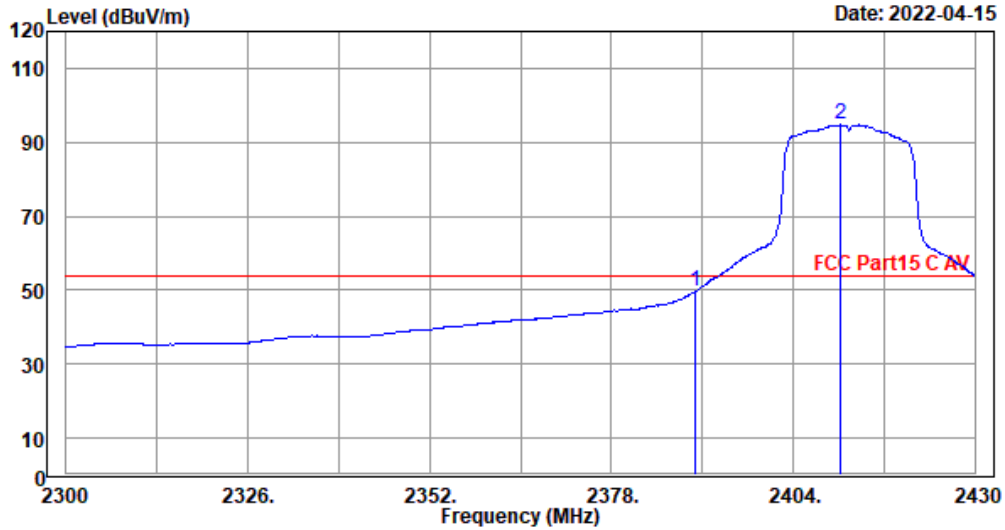
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.31	3.82	49.13	35.25	50.01	54.00	3.99	Average
2410.630	32.33	3.84	93.86	35.22	94.81	54.00	-40.81	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00029.EMI



Site NO. : NO.2 3M chamber	Ant. pol.: Vertical	Data NO.:29
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11nHT20 2412MHz		
Memo :		

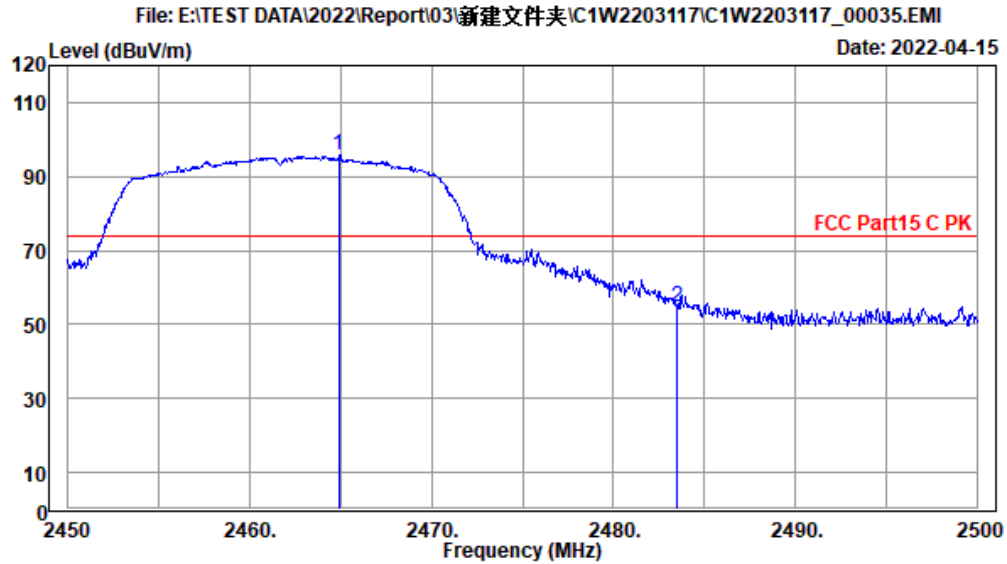
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.31	3.82	48.77	35.25	49.65	54.00	4.35	Average
2410.630	32.33	3.84	93.76	35.22	94.71	54.00	-40.71	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11nHT20	Frequency	TX 2462MHz
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Site NO. : NO.2 3M chamber Ant. pol.: Horizontal Data NO.:35
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv Engineer : GuoXiaoBo
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2462MHz
 Memo :

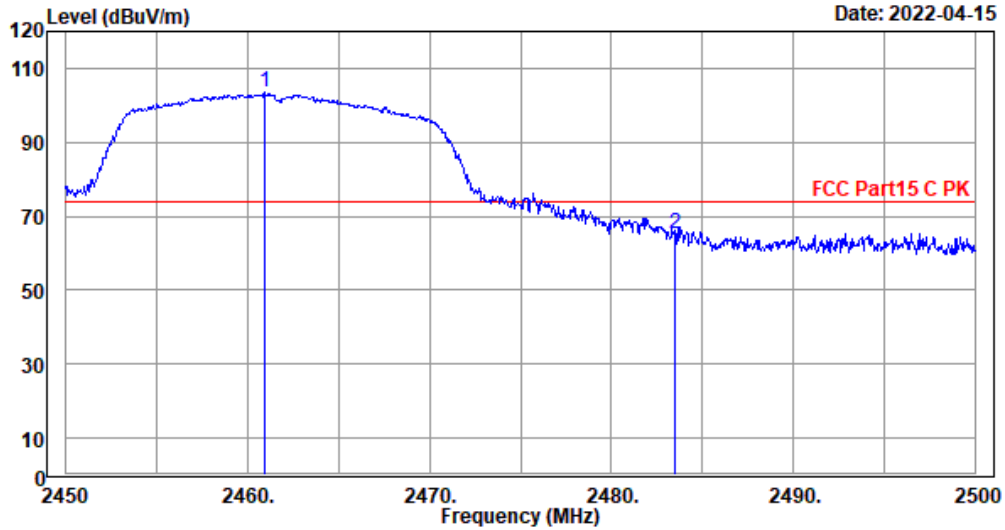
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2464.900	32.37	3.87	94.75	35.16	95.83	74.00	-21.83	Peak
2483.500	32.39	3.88	53.78	35.14	54.91	74.00	19.09	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00033.EMI



Site NO. : NO.2 3M chamber	Ant. pol.: Vertical	Data NO.:33
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C PK		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11nHT20 2462MHz		
Memo :		

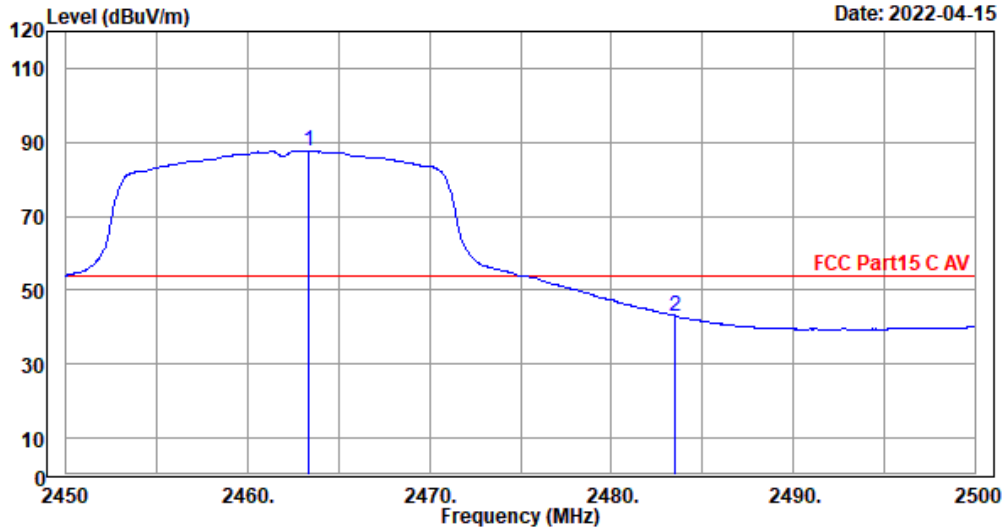
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2461.000	32.37	3.87	102.31	35.17	103.38	74.00	-29.38	Peak
2483.500	32.39	3.88	64.23	35.14	65.36	74.00	8.64	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00036.EMI



Site NO. : NO.2 3M chamber	Ant. pol.: Horizontal	Data NO.:36
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11nHT20 2462MHz		
Memo :		

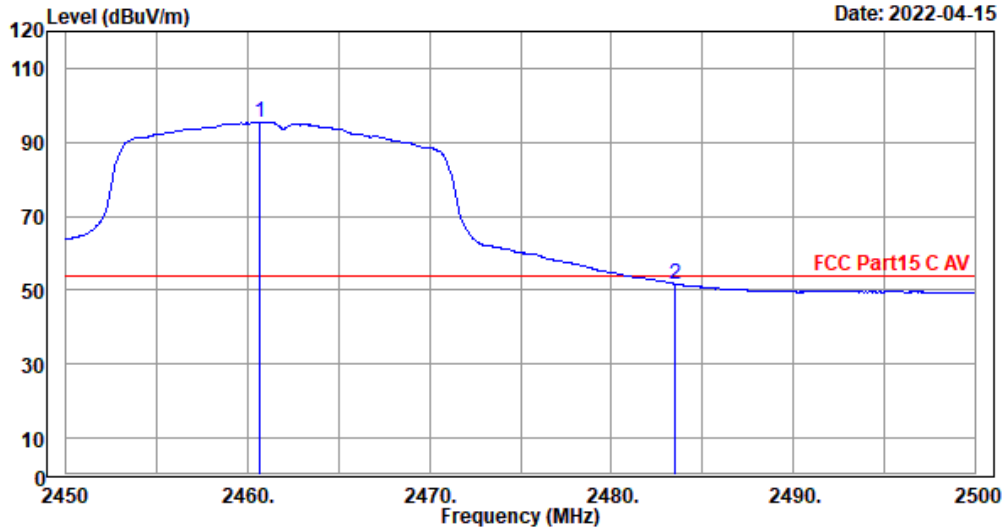
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2463.400	32.37	3.87	86.70	35.16	87.78	54.00	-33.78	Average
2483.500	32.39	3.88	41.87	35.14	43.00	54.00	11.00	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00034.EMI



Site NO.	: NO.2 3M chamber	Ant. pol.:	Vertical	Data NO.:	34
Dis. / Ant.	: D:\factor\2022\3117-586-2203.csv	Engineer :	GuoXiaoBo		
Limit	: FCC Part15 C AV				
Env. / Ins.	: 22.2°C&52%/ESAR				
EUT	: Smart Meter				
M/N	: GMK141				
Power Rating	: 120Vac/60Hz				
Test Mode	: TX 11nHT20 2462MHz				
Memo	:				

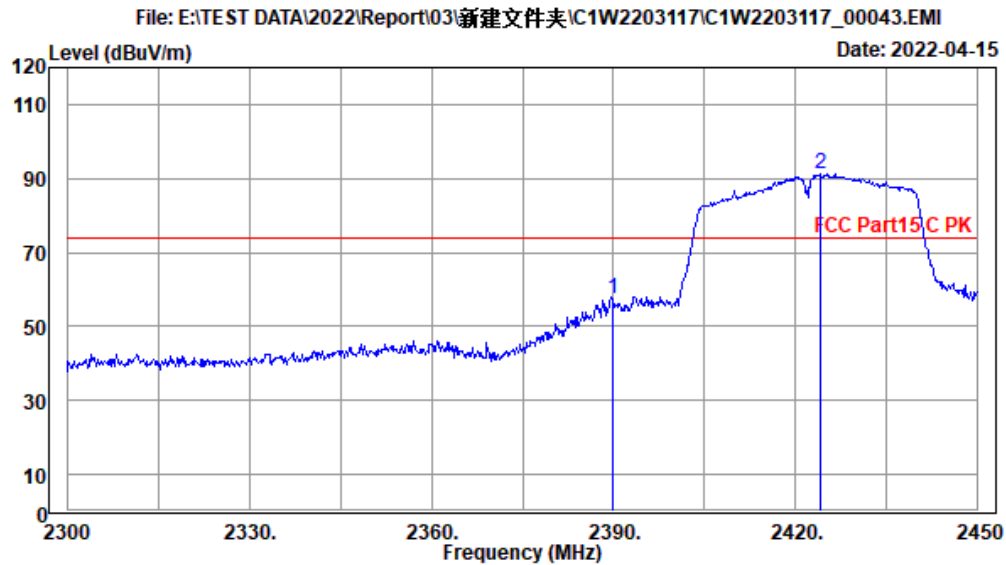
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2460.650	32.37	3.87	94.36	35.17	95.43	54.00	-41.43	Average
2483.500	32.39	3.88	50.53	35.14	51.66	54.00	2.34	Average

Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor

Mode	802.11nHT40	Frequency	TX 2422MHz
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Site NO. : NO.2 3M chamber	Ant. pol.: Horizontal	Data NO.:43
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C PK		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11nHT40 2422MHz		
Memo :		

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2390.000	32.31	3.82	56.42	35.25	57.30	74.00	16.70	Peak
2424.050	32.34	3.84	90.31	35.21	91.28	74.00	-17.28	Peak

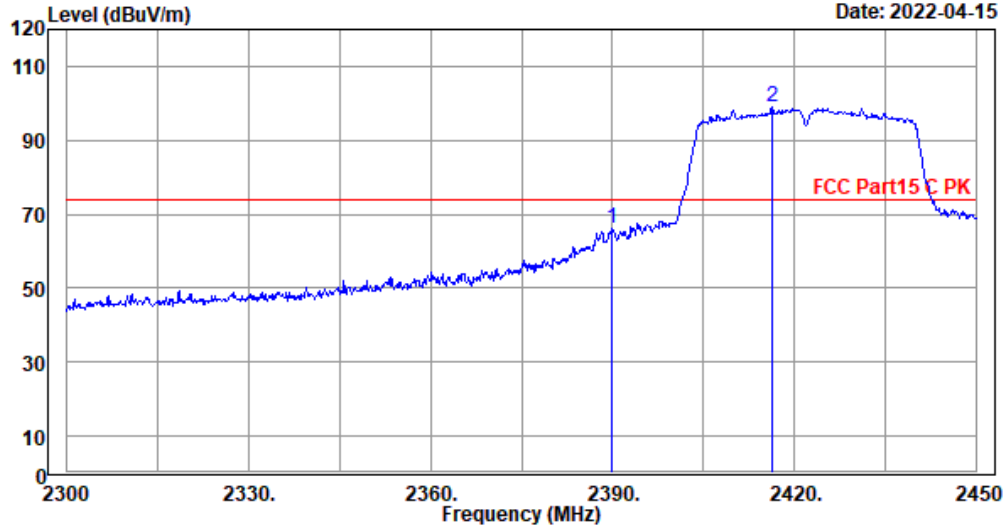
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\1C1W2203117\1C1W2203117_00041.EMI

Date: 2022-04-15



Site NO. : NO.2 3M chamber
 Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
 Limit : FCC Part15 C PK
 Env. / Ins. : 22.2°C&52%/ESAR
 EUT : Smart Meter
 M/N : GMK141
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT40 2422MHz
 Memo :

Ant. pol.: Vertical Data NO.:41
 Engineer : GuoXiaoBo

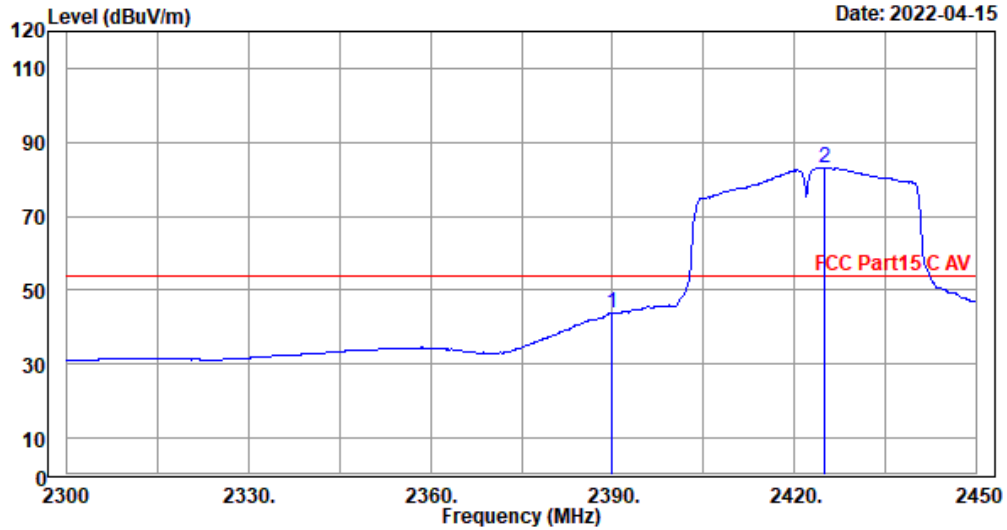
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBUV	Preamp Factor dB	Emission Level dBUV/m	Limits dBUV/m	Margin dB	Remark
2390.000	32.31	3.82	65.08	35.25	65.96	74.00	8.04	Peak
2416.400	32.33	3.84	97.90	35.22	98.85	74.00	-24.85	Peak

Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00044.EMI



Site NO. : NO.2 3M chamber
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
Limit : FCC Part15 C AV
Env. / Ins. : 22.2°C&52%/ESAR
EUT : Smart Meter
M/N : GMK141
Power Rating : 120Vac/60Hz
Test Mode : TX 11nHT40 2422MHz
Memo :

Ant. pol.: Horizontal Data NO.:44
Engineer : GuoXiaoBo

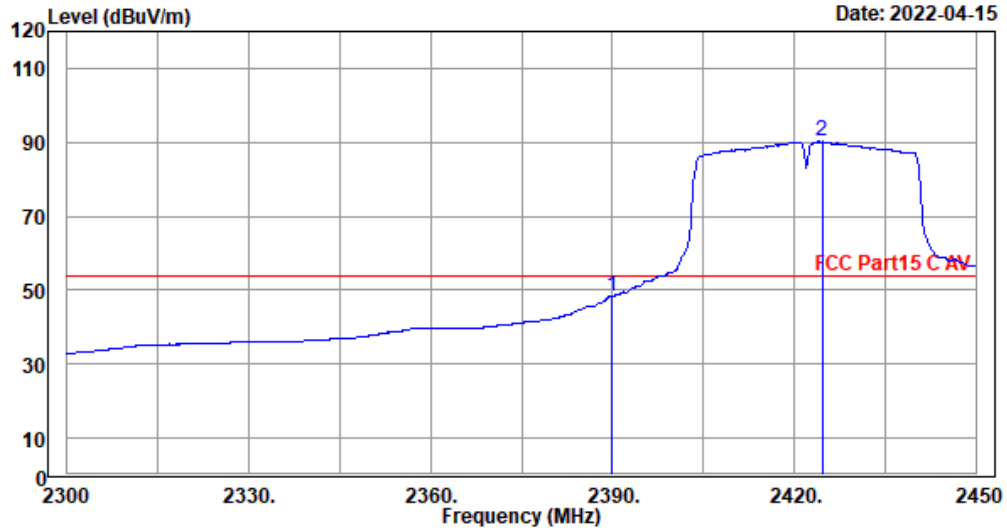
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.31	3.82	43.00	35.25	43.88	54.00	10.12	Average
2424.800	32.34	3.84	82.22	35.21	83.19	54.00	-29.19	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00042.EMI



Site NO. : NO.2 3M chamber	Ant. pol.: Vertical	Data NO.:42
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11nHT40 2422MHz		
Memo :		

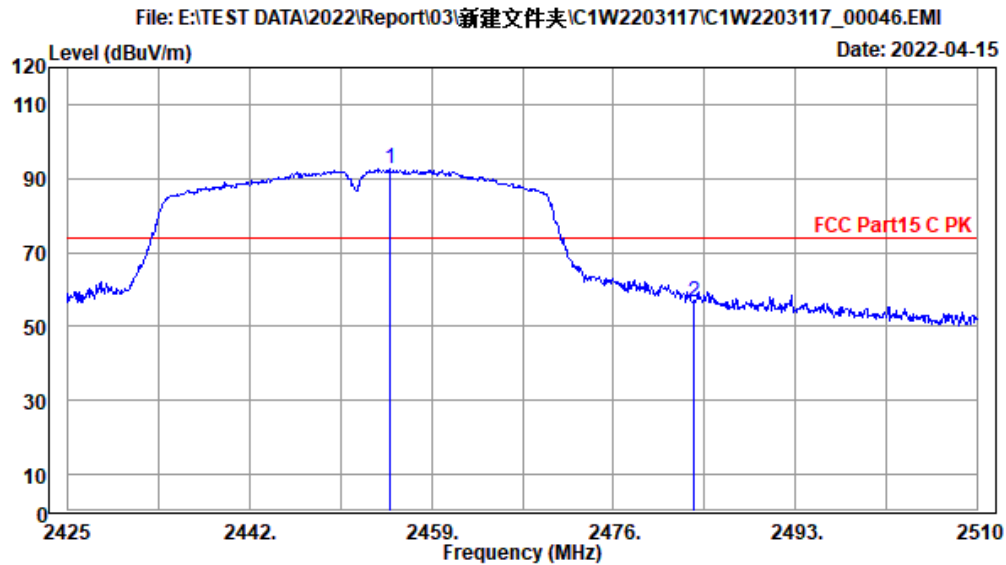
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.31	3.82	47.70	35.25	48.58	54.00	5.42	Average
2424.500	32.34	3.84	89.23	35.21	90.20	54.00	-36.20	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11nHT40	Frequency	TX 2452MHz
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Site NO. : NO.2 3M chamber	Ant. pol.: Horizontal	Data NO.:46
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C PK		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11nHT40 2452MHz		
Memo :		

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2455.090	32.36	3.86	91.65	35.17	92.70	74.00	-18.70	Peak
2483.500	32.39	3.88	55.37	35.14	56.50	74.00	17.50	Peak

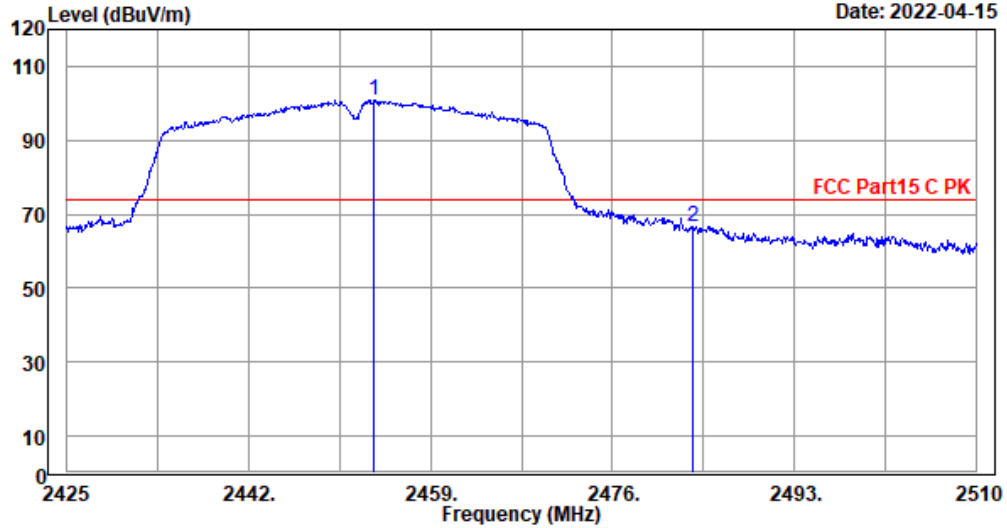
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\IC1W2203117\IC1W2203117_00048.EMI

Date: 2022-04-15



Site NO. : NO.2 3M chamber
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv
Limit : FCC Part15 C PK
Env. / Ins. : 22.2°C&52%/ESAR
EUT : Smart Meter
M/N : GMK141
Power Rating : 120Vac/60Hz
Test Mode : TX 11nHT40 2452MHz
Memo :

Ant. pol.: Vertical Data NO.:48
Engineer : GuoXiaoBo

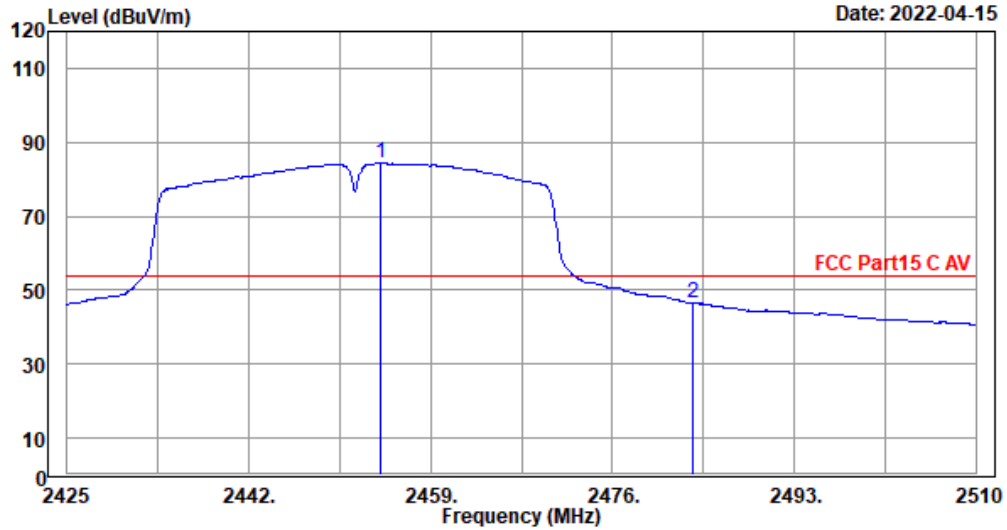
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2453.730	32.36	3.86	99.85	35.17	100.90	74.00	-26.90	Peak
2483.500	32.39	3.88	65.28	35.14	66.41	74.00	7.59	Peak

Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00047.EMI



Site NO. : NO.2 3M chamber	Ant. pol.: Horizontal	Data NO.:47
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11nHT40 2452MHz		
Memo :		

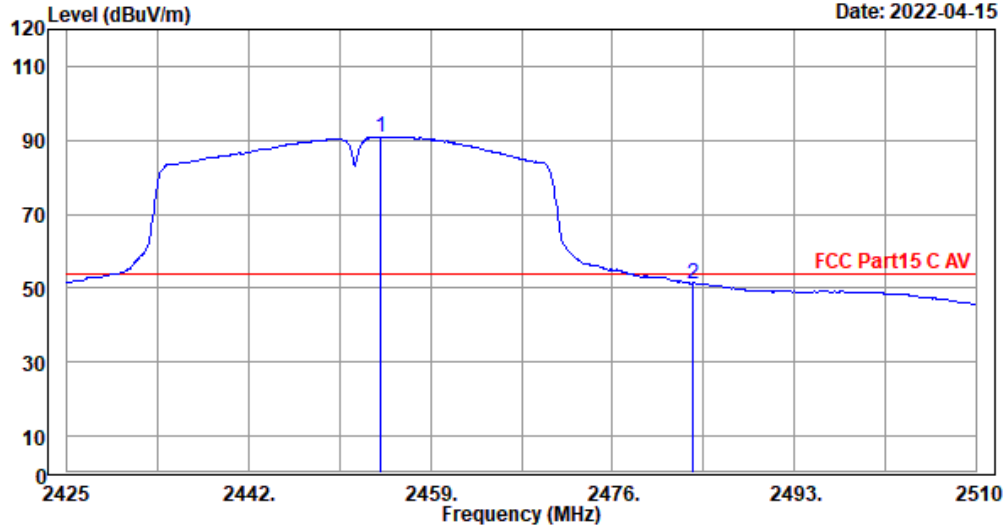
Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2454.410	32.36	3.86	83.28	35.17	84.33	54.00	-30.33	Average
2483.500	32.39	3.88	45.46	35.14	46.59	54.00	7.41	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2022\Report\03\新建文件夹\C1W2203117\C1W2203117_00049.EMI



Site NO. : NO.2 3M chamber	Ant. pol.: Vertical	Data NO.:49
Dis. / Ant. : D:\factor\2022\3117-586-2203.csv	Engineer : GuoXiaoBo	
Limit : FCC Part15 C AV		
Env. / Ins. : 22.2°C&52%/ESAR		
EUT : Smart Meter		
M/N : GMK141		
Power Rating : 120Vac/60Hz		
Test Mode : TX 11nHT40 2452MHz		
Memo :		

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2454.325	32.36	3.86	89.97	35.17	91.02	54.00	-37.02	Average
2483.480	32.39	3.88	50.13	35.14	51.26	54.00	2.74	Average

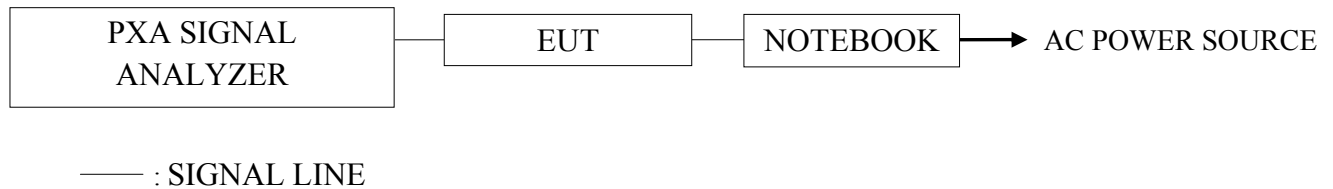
Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

6. 6dB BANDWIDTH MEASUREMENT

6.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Period
1.	PXA signal analyzer	Agilent	N9030A	MY53120217	2022-03-29	1 Year

6.2. Block Diagram of Test Setup



6.3. Specification Limits

The minimum 6dB bandwidth shall be at least 500kHz.

6.4. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v05:

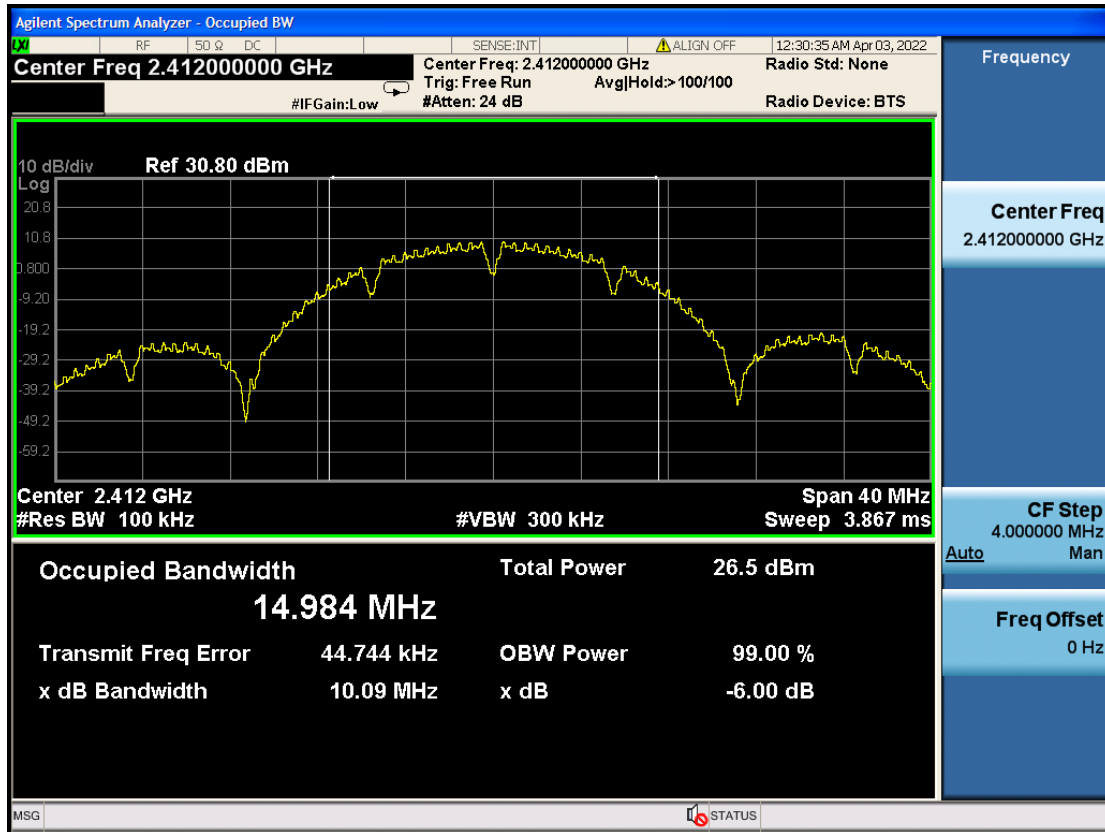
- (1) Set RBW = 100 kHz.
- (2) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -6 dB to record the final bandwidth.

6.5. Test Results

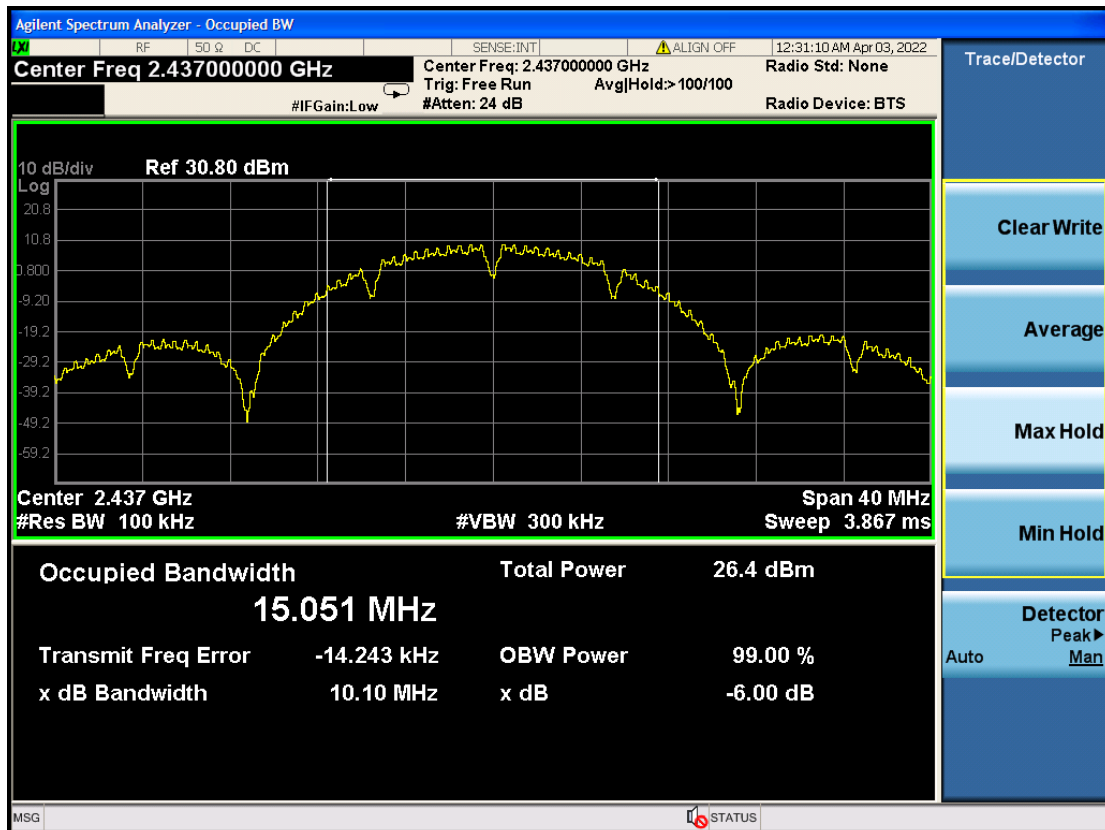
PASSED. All the test results are attached in next pages.

Item	Channel	Test Frequency (MHz)	6dB Bandwidth (MHz)
802.11b	1	2412	10.09
	6	2437	10.10
	11	2462	10.09
802.11g	1	2412	15.14
	6	2437	15.15
	11	2462	15.15
802.11 nHT20	1	2412	15.17
	6	2437	15.15
	11	2462	15.15
802.11 nHT40	3	2422	35.13
	6	2437	35.15
	9	2452	35.16

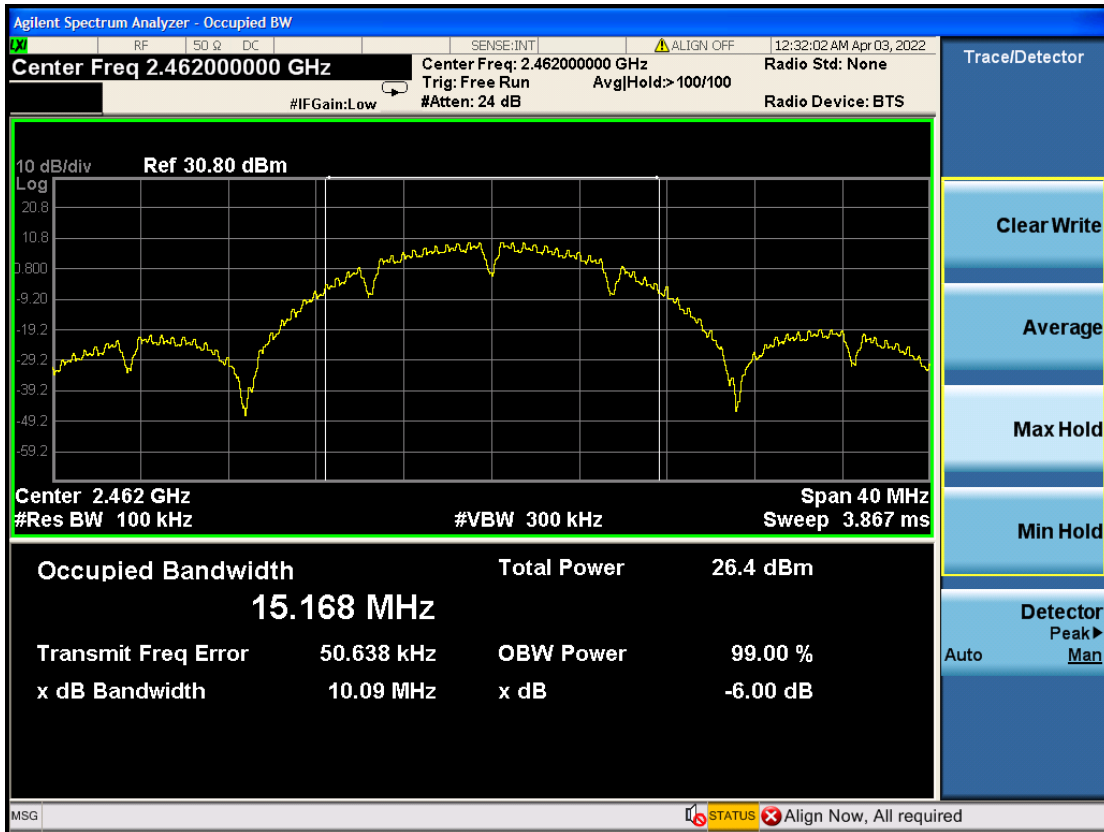
802.11b CH1



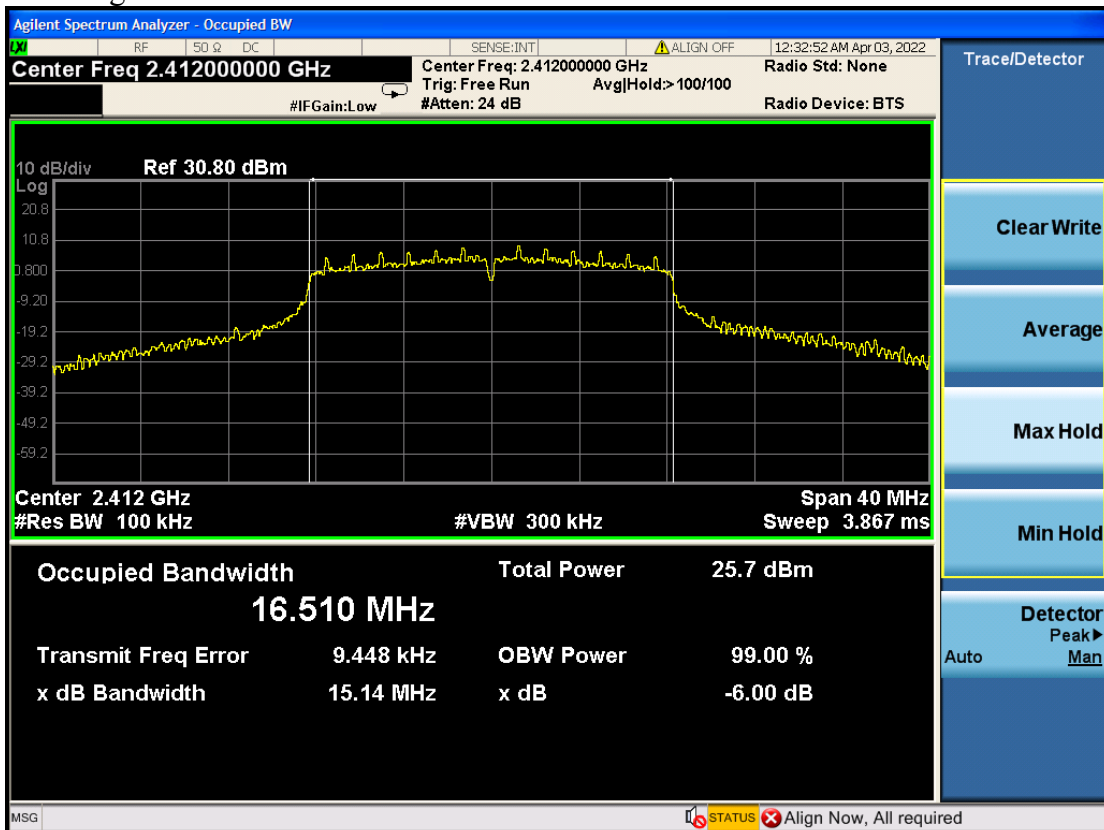
802.11b CH6



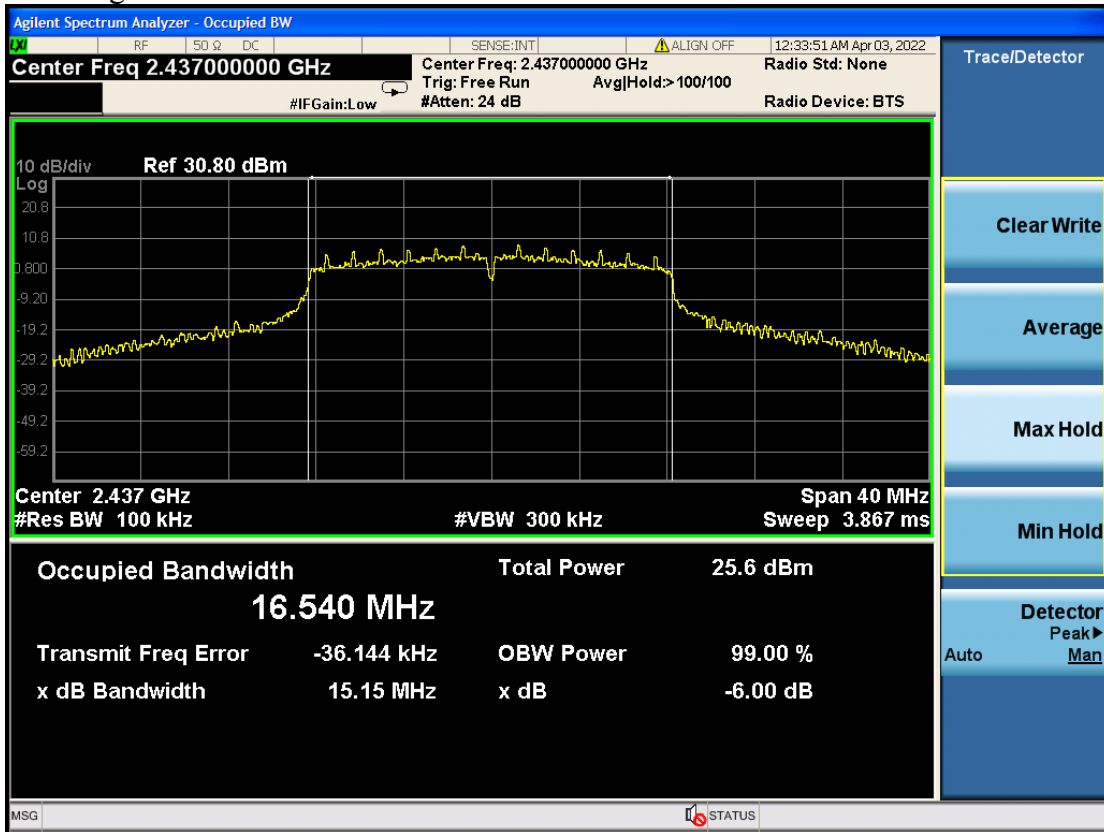
802.11b CH11



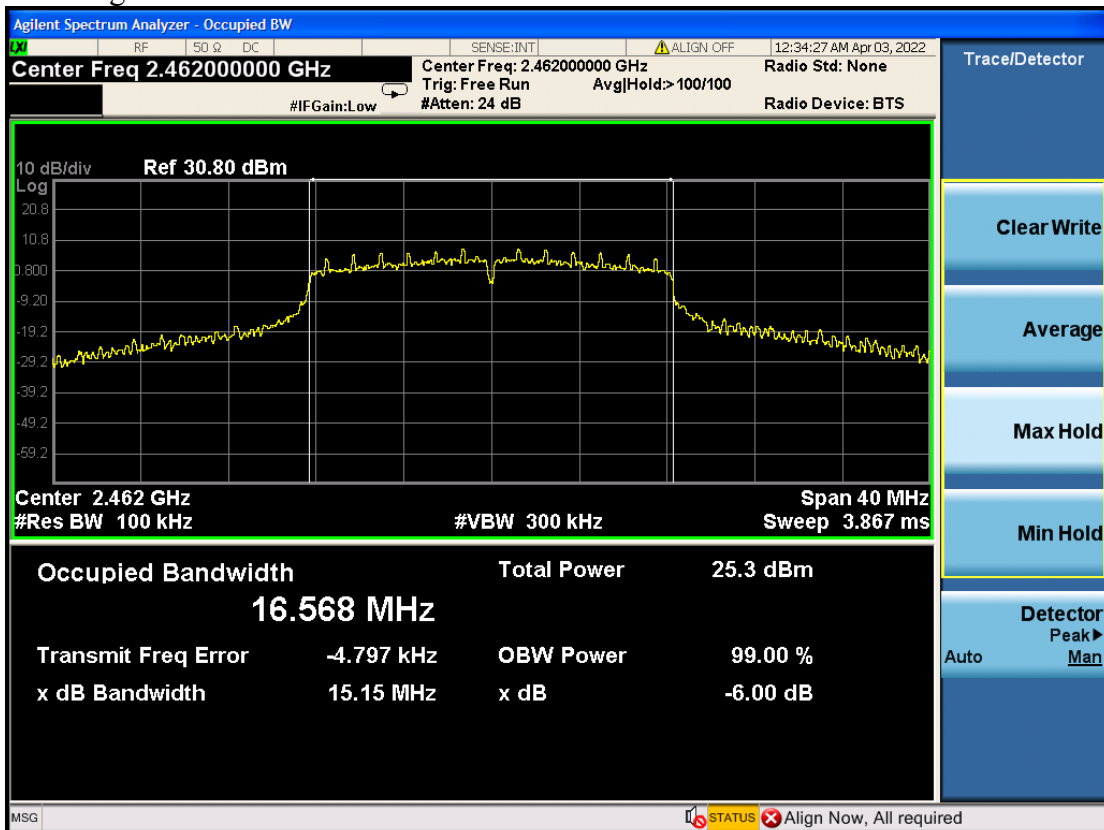
802.11g CH1



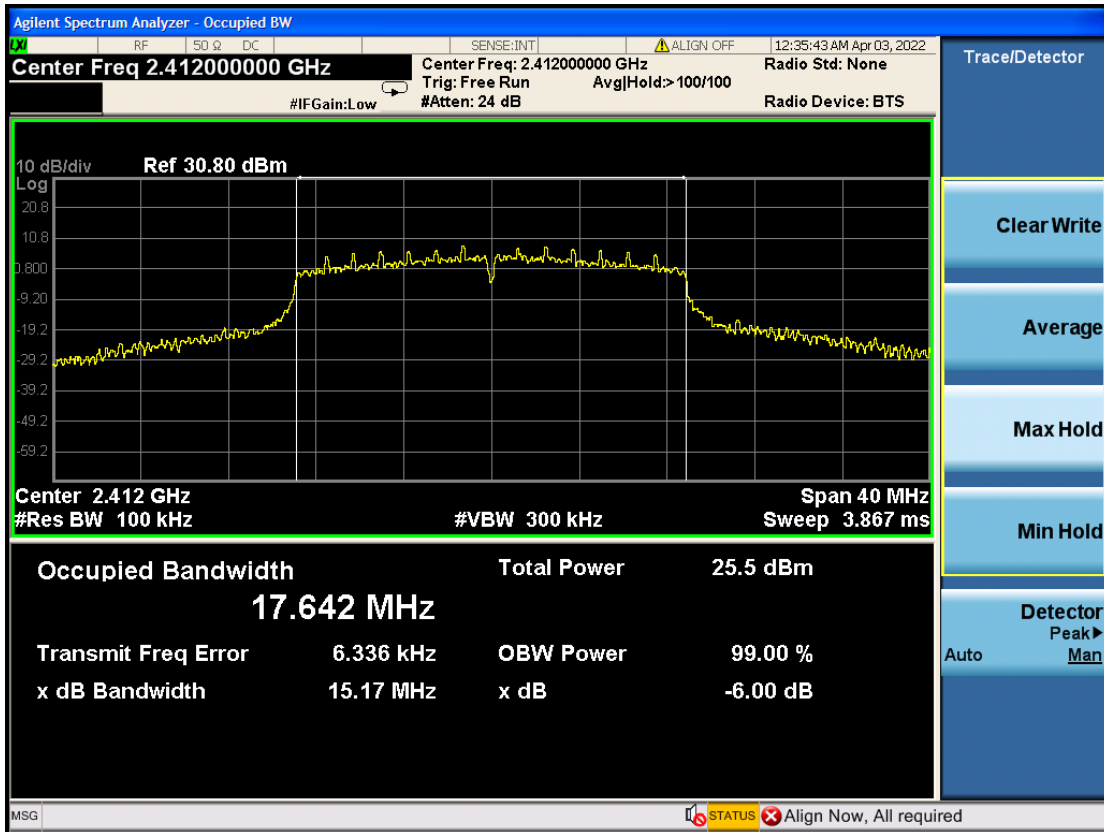
802.11g CH6



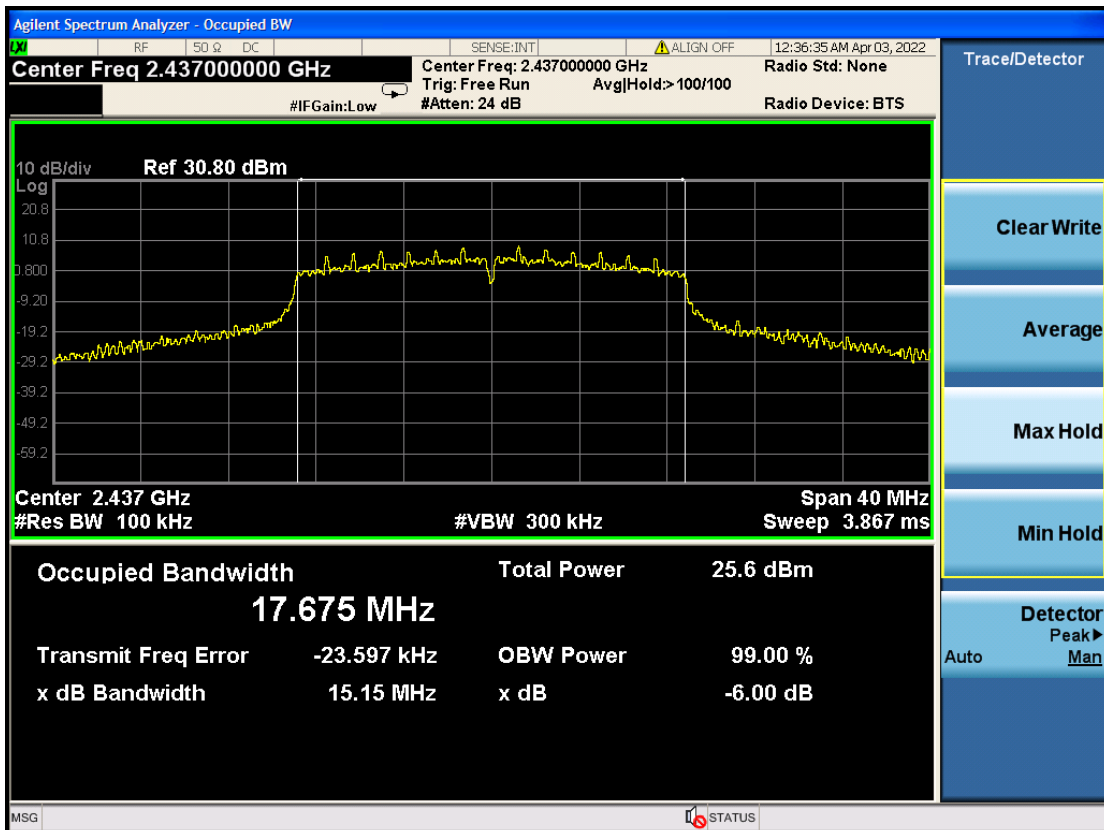
802.11g CH11



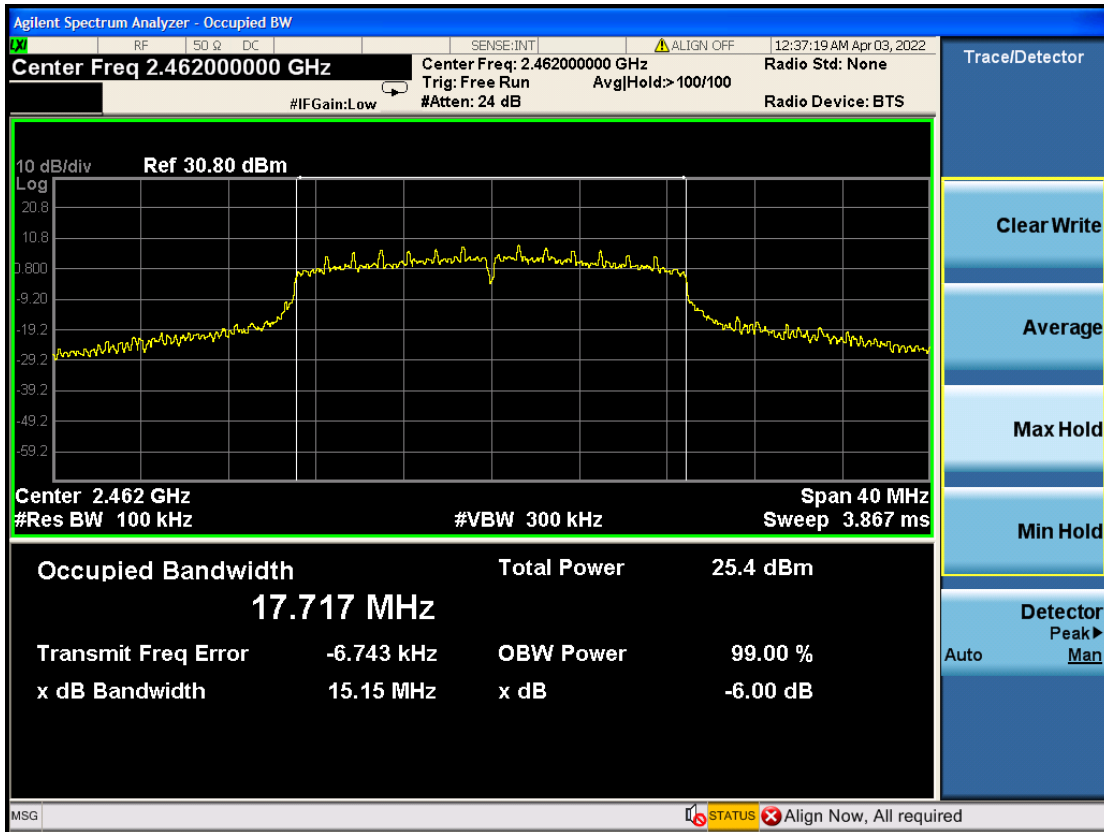
802.11nHT20 CH1



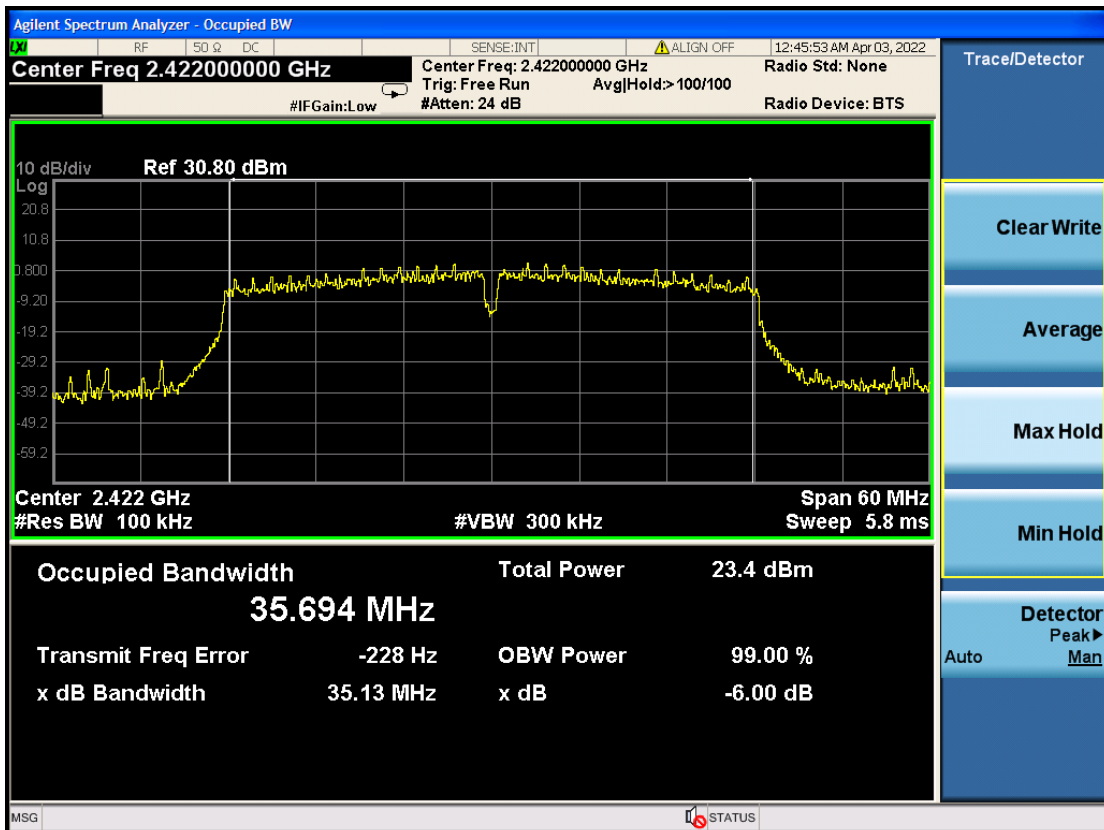
802.11nHT20 CH6



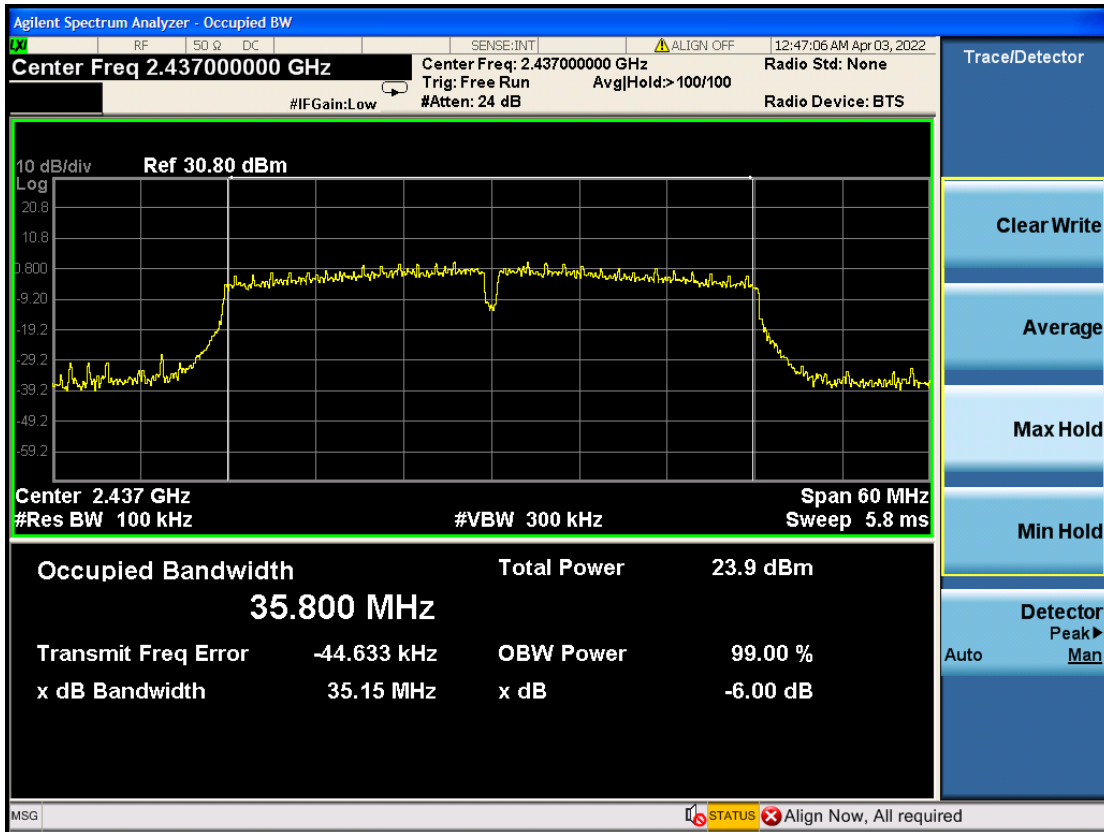
802.11nHT20 CH11



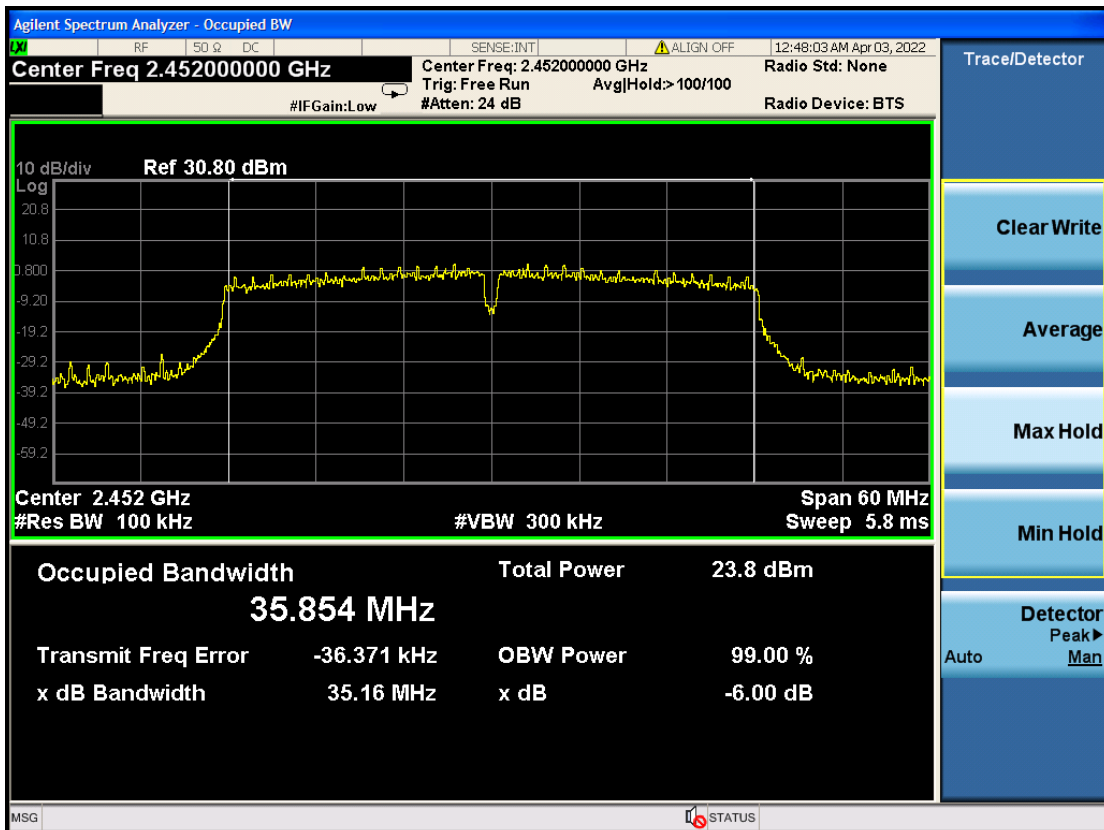
802.11nHT20 CH3



802.11nHT20 CH6



802.11nHT20 CH9

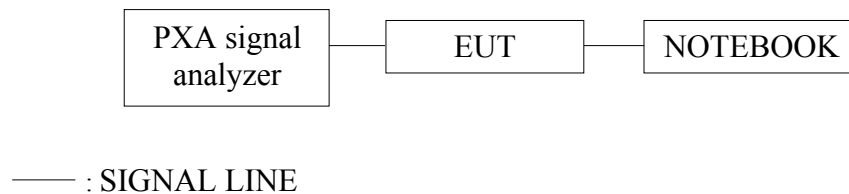


7. OUTPUT POWER MEASUREMENT

7.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Period
1.	PXA signal analyzer	Agilent	N9030A	MY53120217	2022-03-29	1 Year

7.2. Block Diagram of Test Setup



7.3. Specification Limits (§15.247(b)(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm), and E.I.R.P.: 4Watt (36dBm)

7.4. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v05:

☐ Method AVGSA-2 (Spectrum channel power)

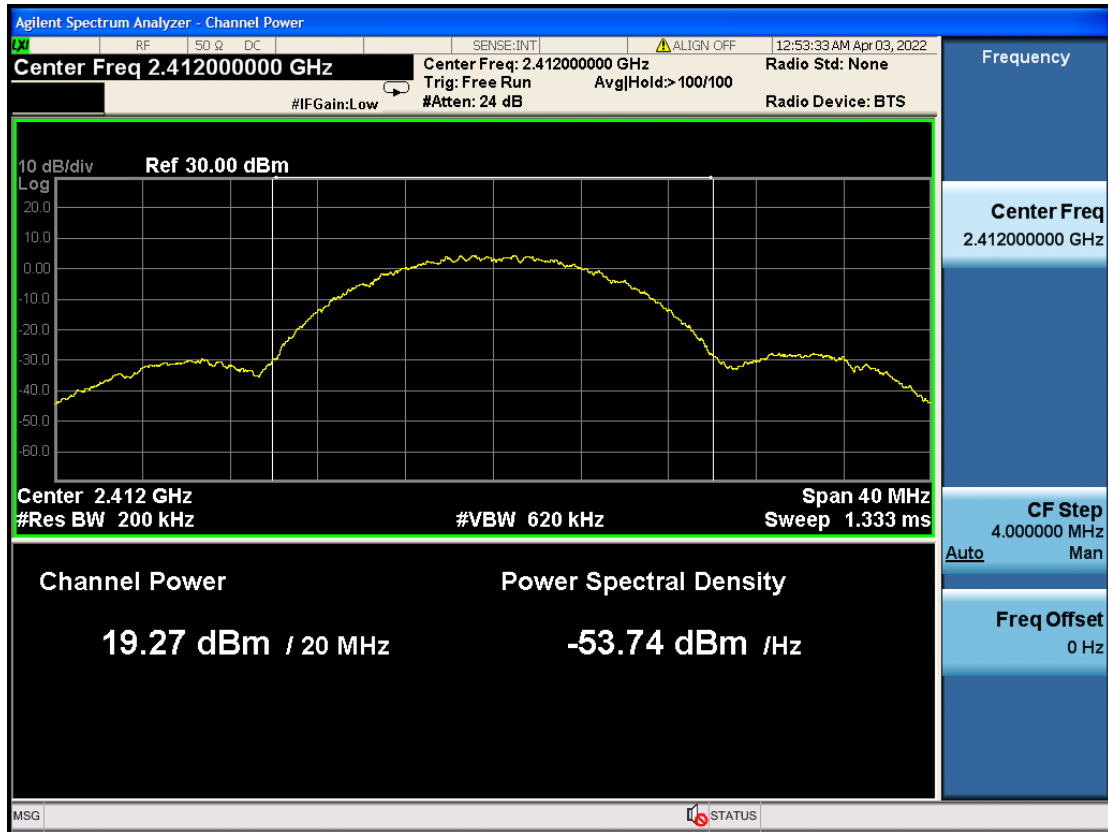
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 -5% of OBW
- (3) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
- (8) Duty cycle factor is added when duty cycle presented in chapter3.5 is $< 98\%$.

7.5. Test Results

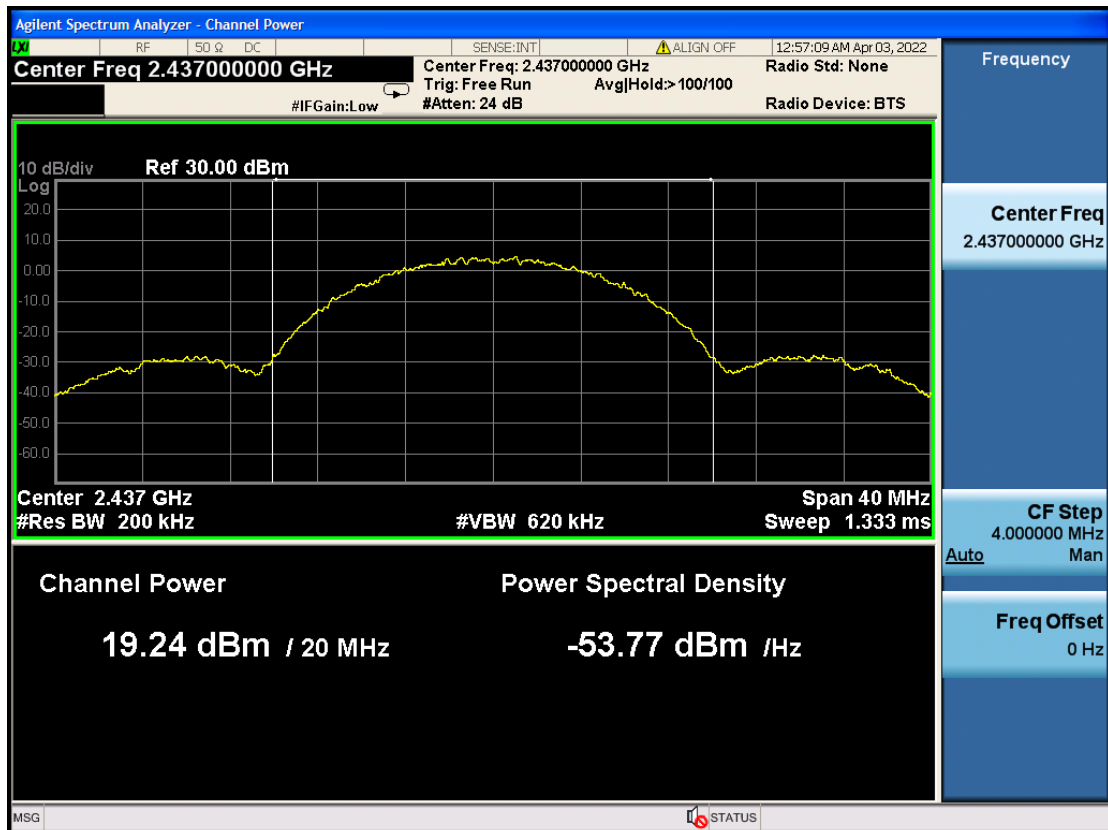
PASSED.

Mode	Frequency	Duty Cycle Factor	Reading (dBm)	Average Output Power (dBm)	Limit (dBm)
11b	2412	0	19.27	19.27	30
	2437		19.24	19.24	
	2462		18.82	18.82	
11g	2412	0.22	18.09	18.31	
	2437		18.22	18.44	
	2462		17.92	18.14	
11n-HT20	2412	0.32	18.01	18.33	
	2437		18.16	18.48	
	2462		17.88	18.20	
11n-HT40	2422	0.32	12.98	13.30	
	2437		12.92	13.24	
	2452		14.25	14.57	

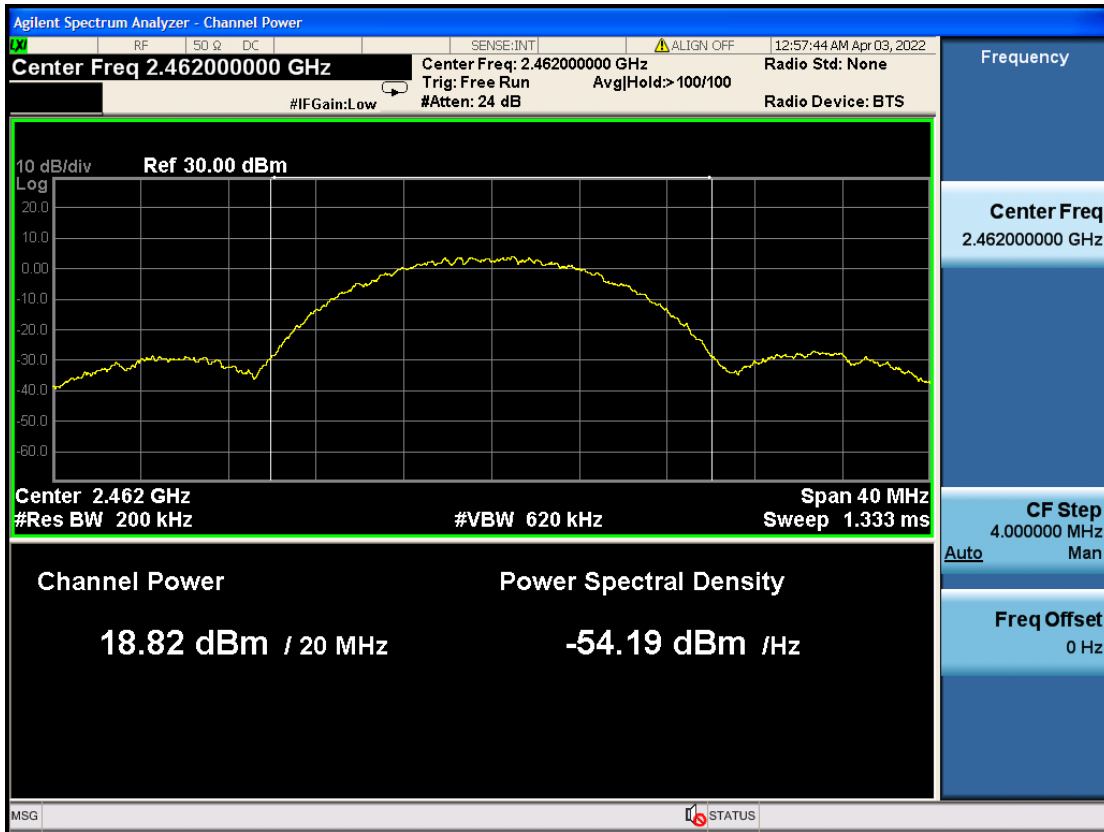
802.11b CH1



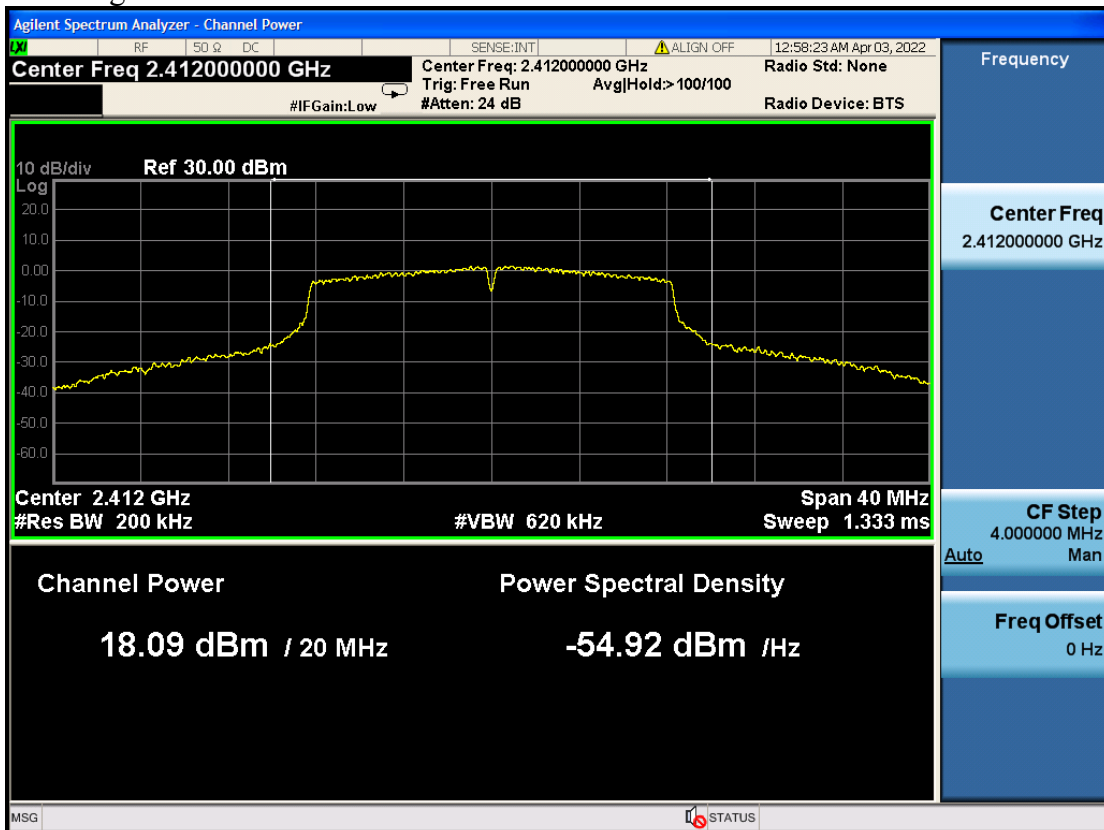
802.11b CH6



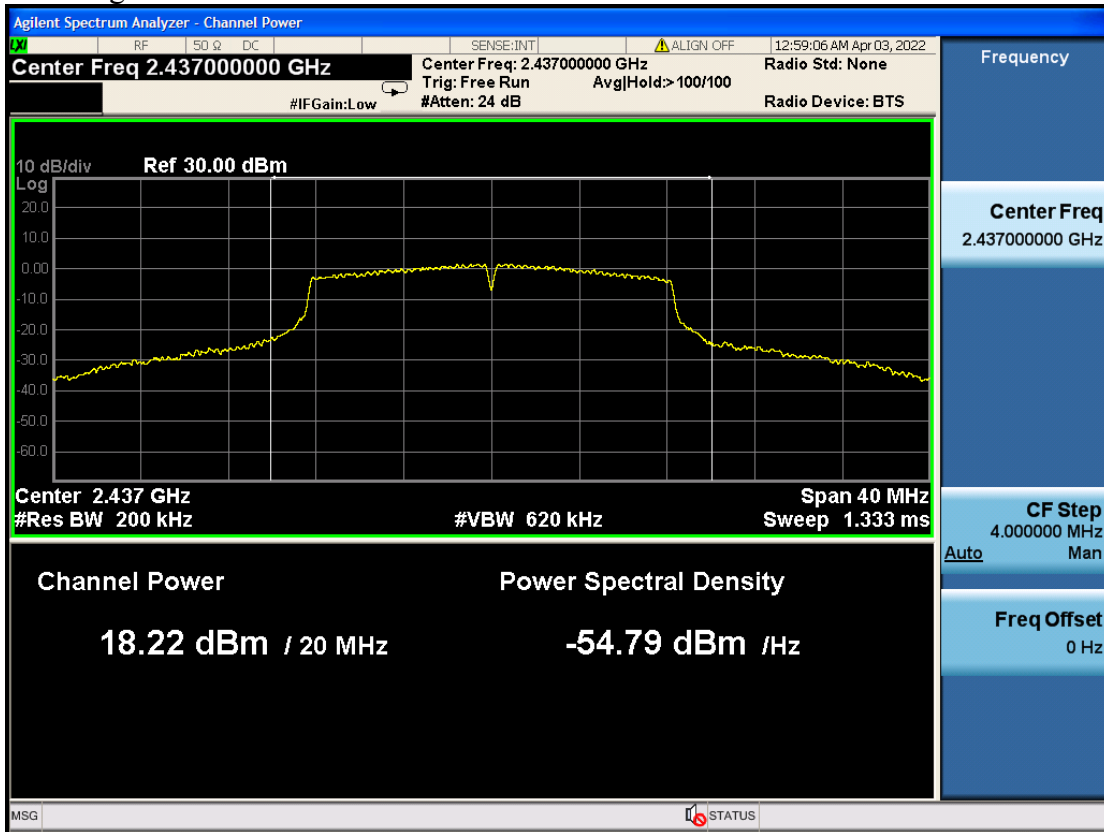
802.11b CH11



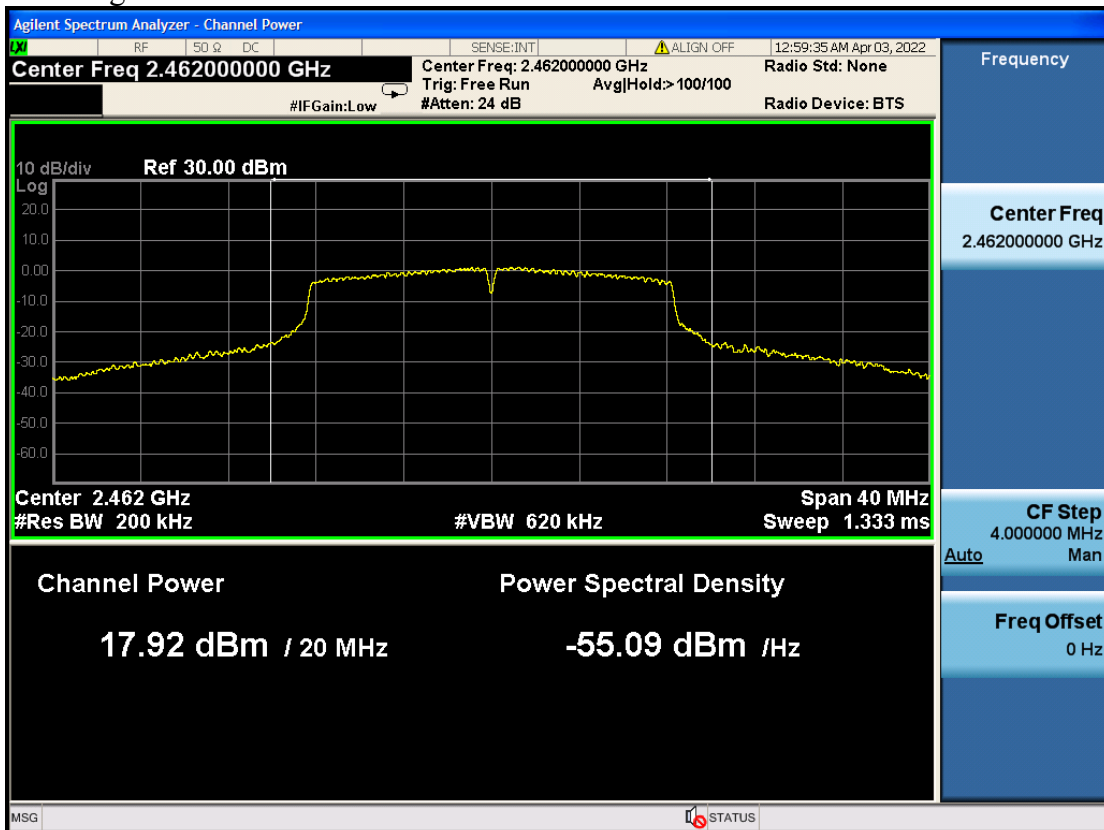
802.11g CH1



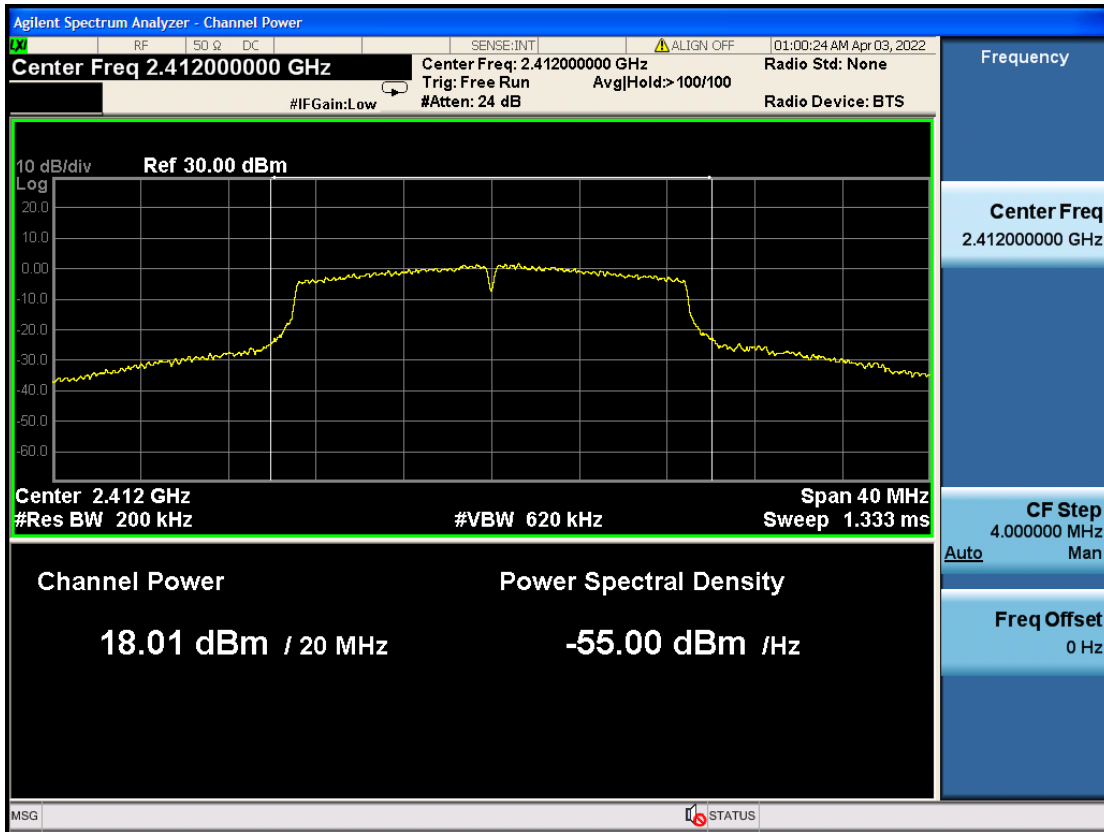
802.11g CH6



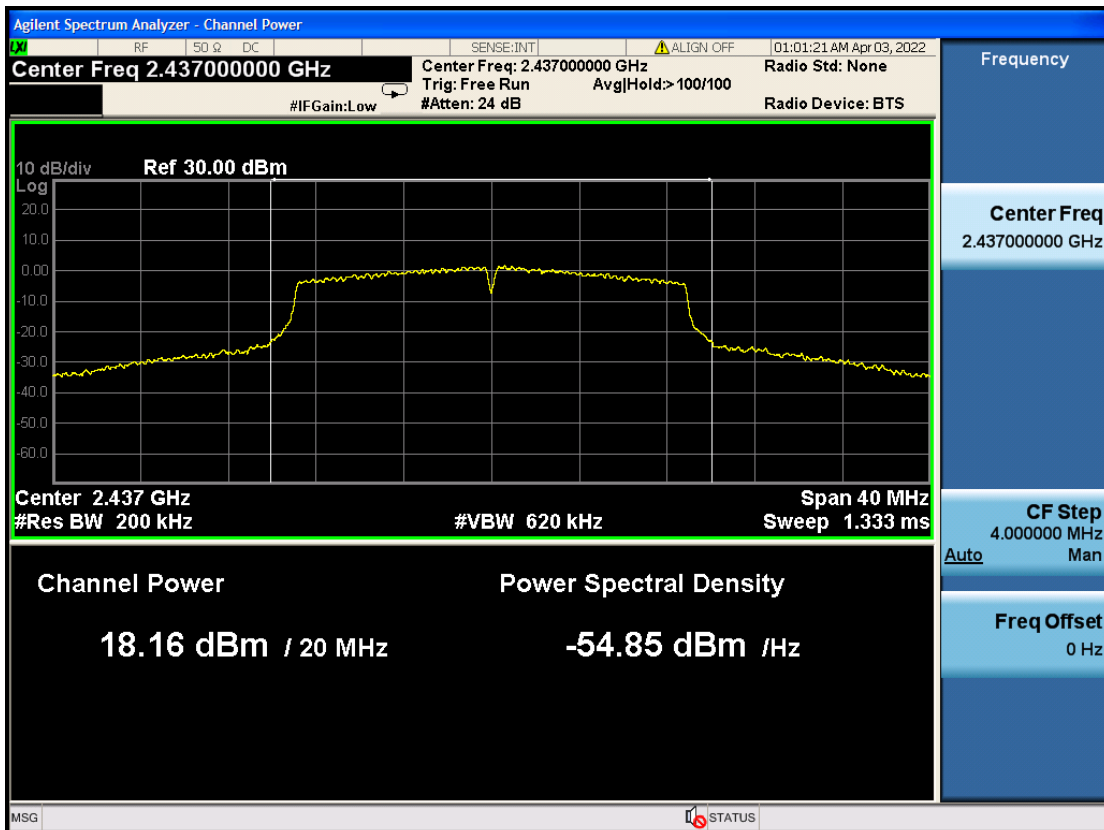
802.11g CH11



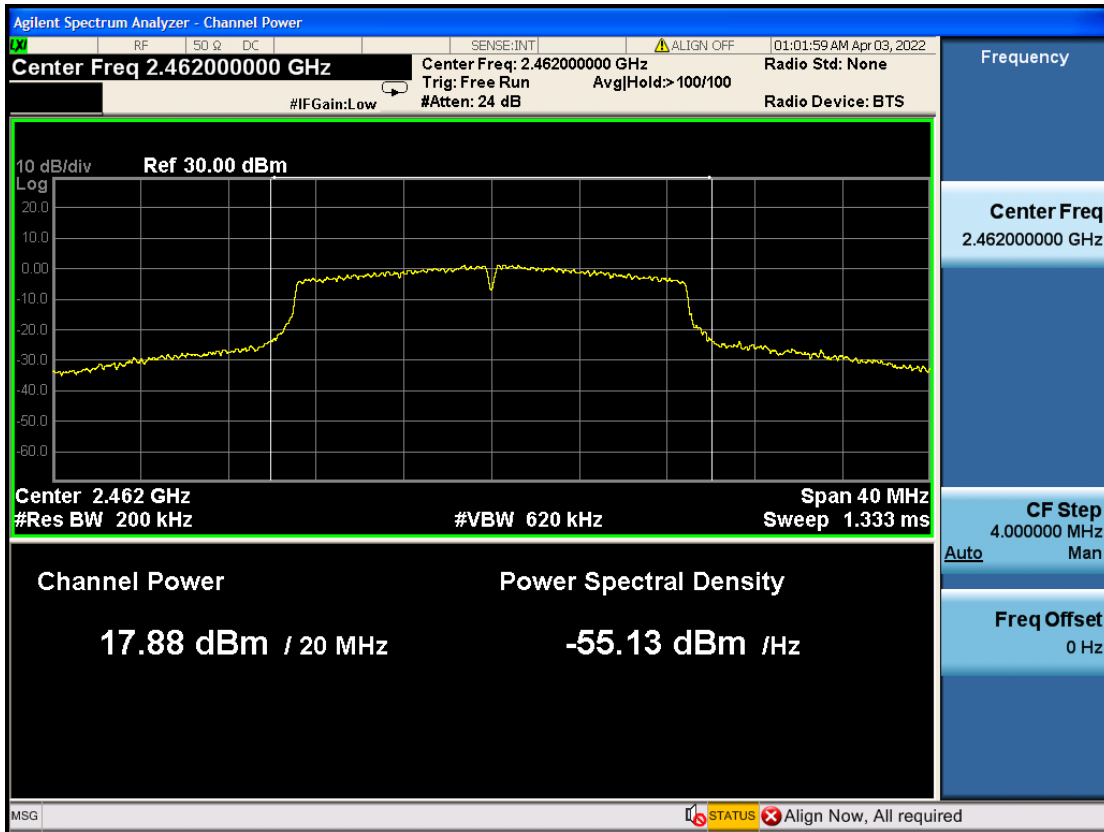
802.11nHT20 CH1



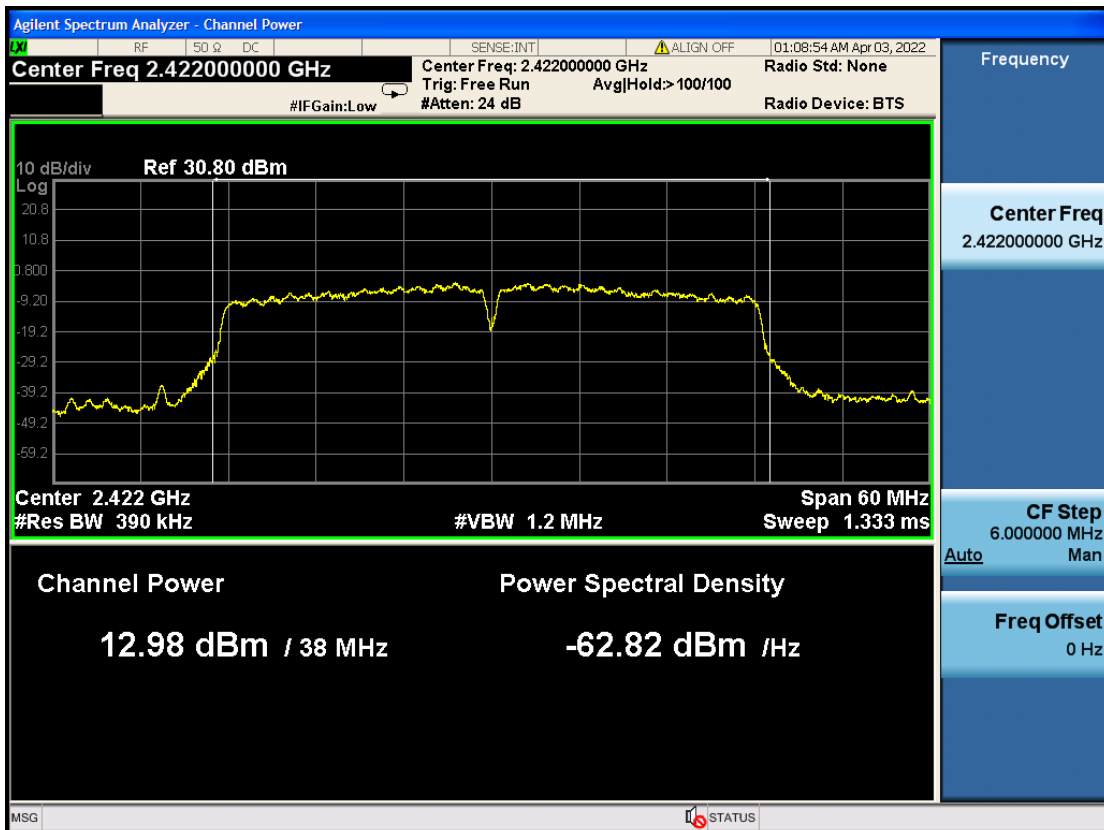
802.11nHT20 CH6



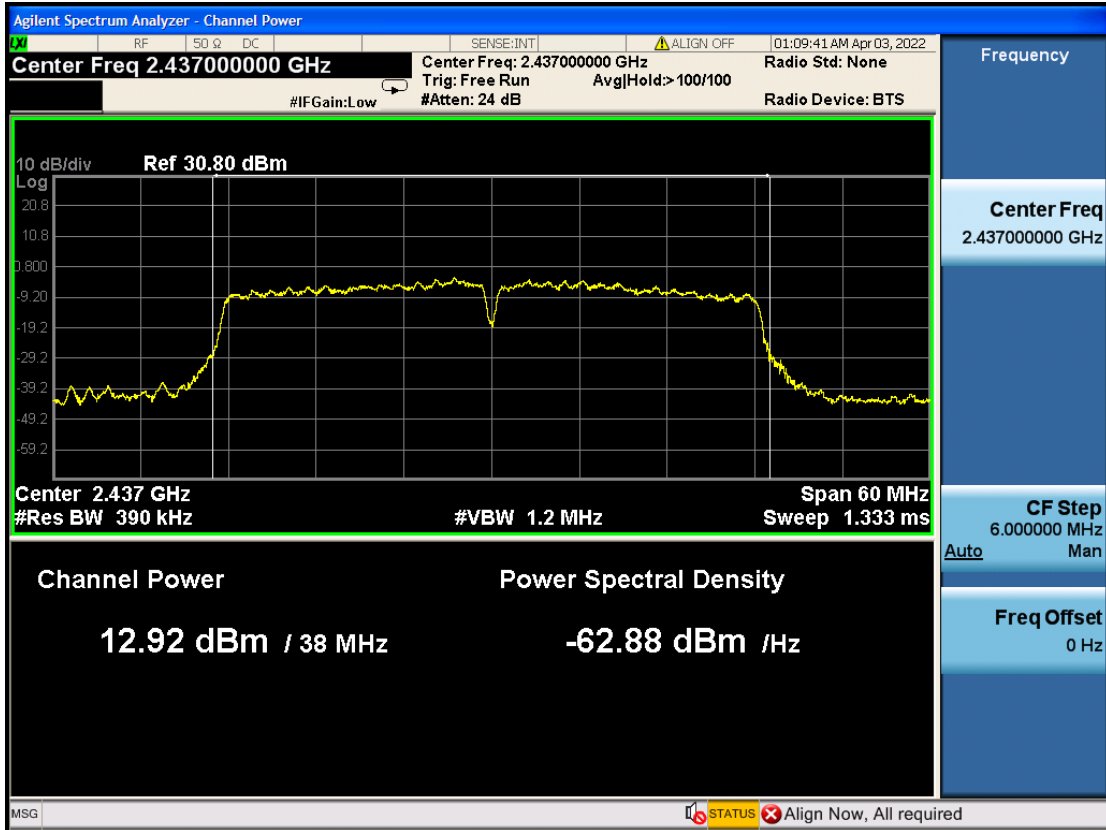
802.11nHT20 CH11



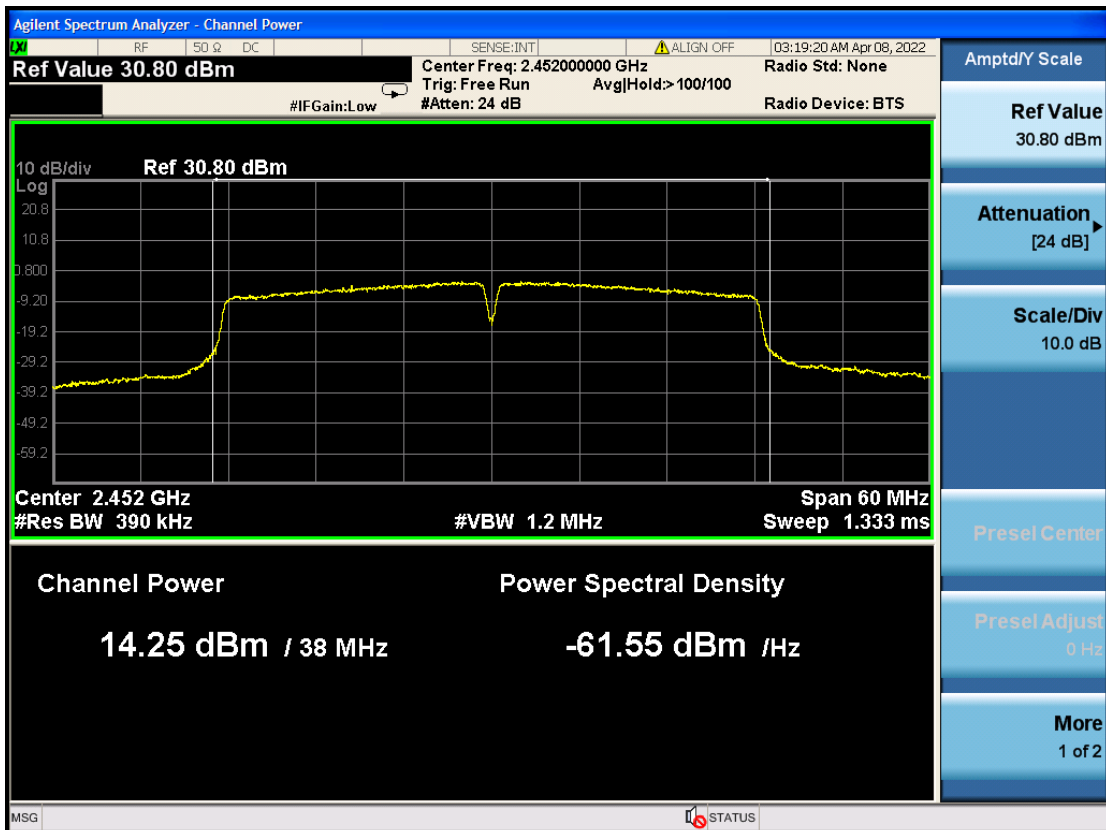
802.11nHT20 CH3



802.11nHT20 CH6



802.11nHT20 CH9



8. POWER SPECTRAL DENSITY MEASUREMENT

8.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Period
1.	PXA signal analyzer	Agilent	N9030A	MY53120217	2022-03-29	1 Year

8.2. Block Diagram of Test Setup

The same as section 6.2.

8.3. Specification Limits

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

8.4. Test Procedure

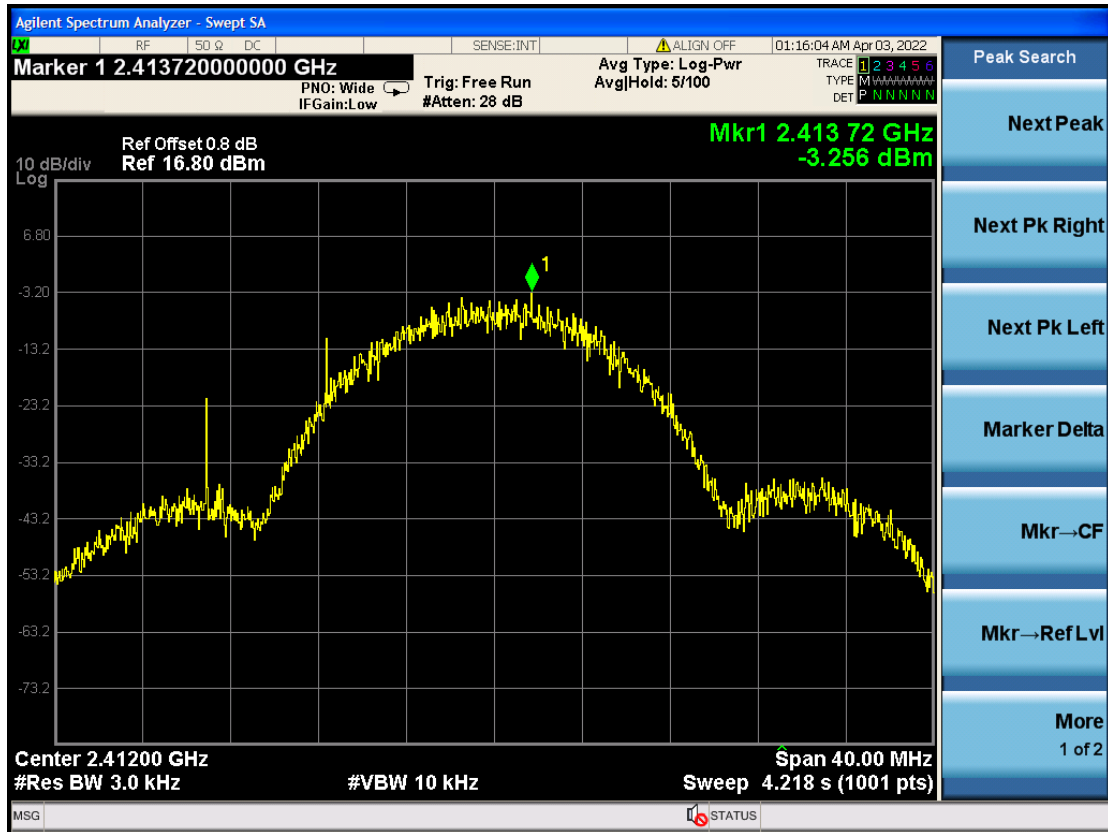
- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- (4) Set the VBW $\geq 3 \times \text{RBW}$.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize.
- (9) Use the peak marker function to determine the maximum amplitude level.

8.5. Test Results

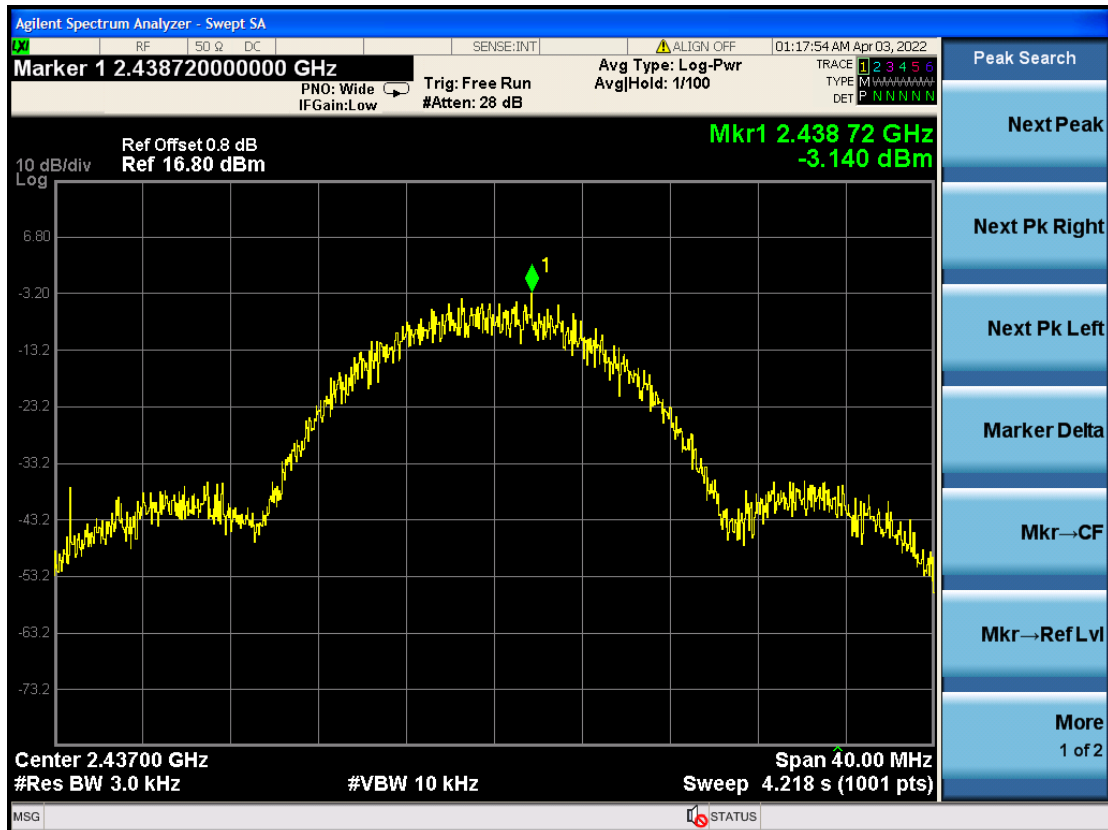
PASSED. All the test results are attached in next page.

Mode	Frequency	Duty Cycle Factor	Reading (dBm)	Result (dBm)	Limit (dBm/3kHz)
11b	2412	0	-3.256	-3.256	8
	2437		-3.140	-3.140	
	2462		-4.044	-4.044	
11g	2412	0.22	-6.927	-6.707	
	2437		-6.461	-6.241	
	2462		-9.156	-8.936	
11n-HT20	2412	0.32	-5.842	-5.522	
	2437		-8.402	-8.082	
	2462		-8.666	-8.346	
11n-HT40	2422	0.32	-12.834	-12.514	
	2437		-12.906	-12.586	
	2452		-13.030	-12.710	

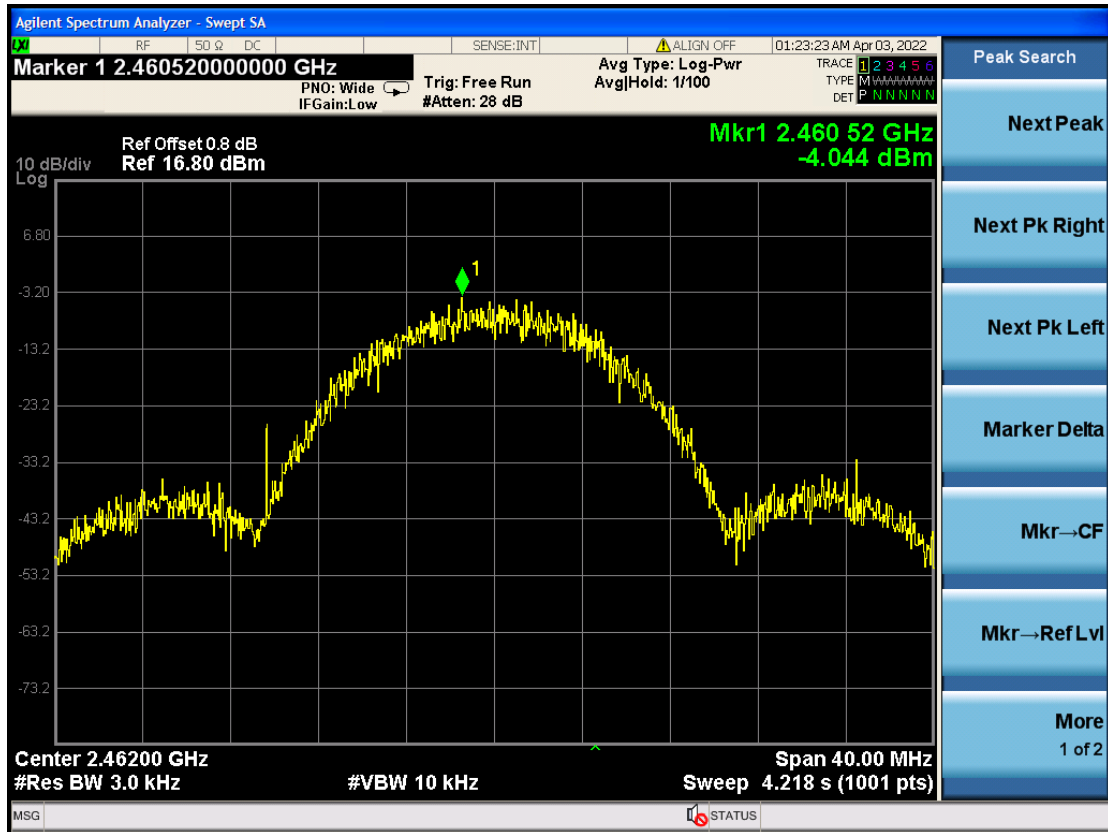
802.11b CH1



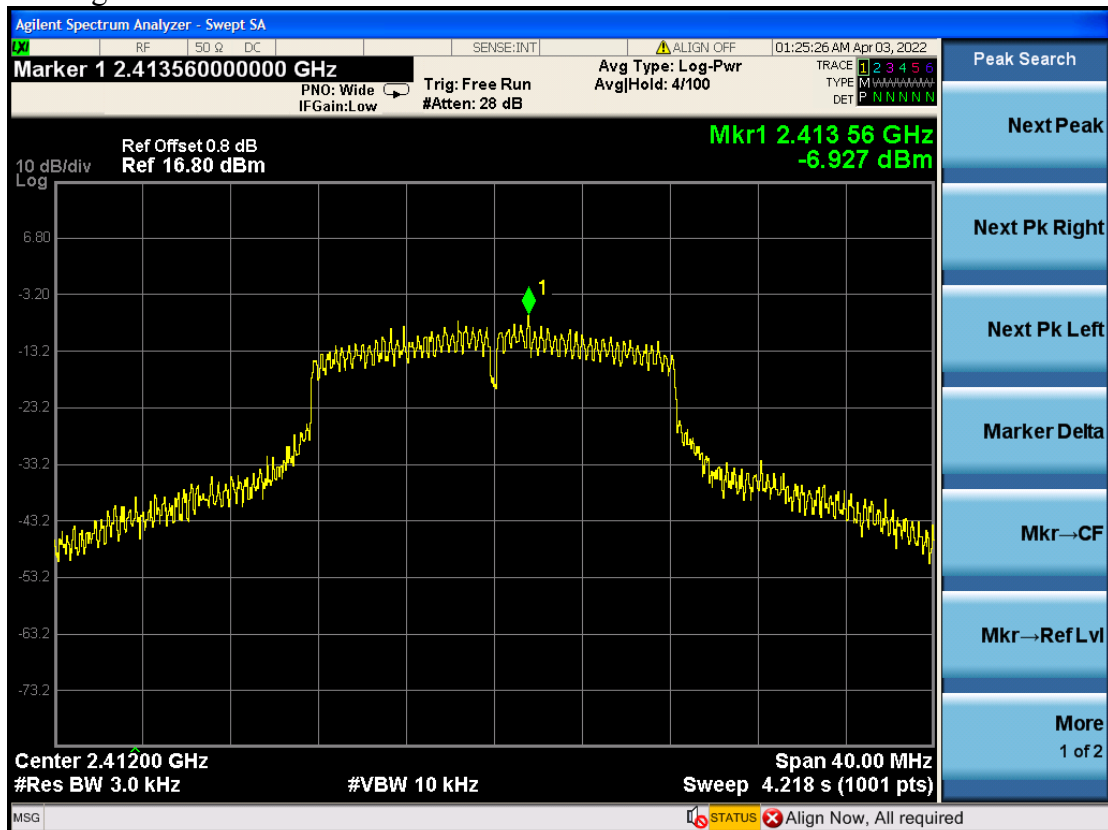
802.11b CH6



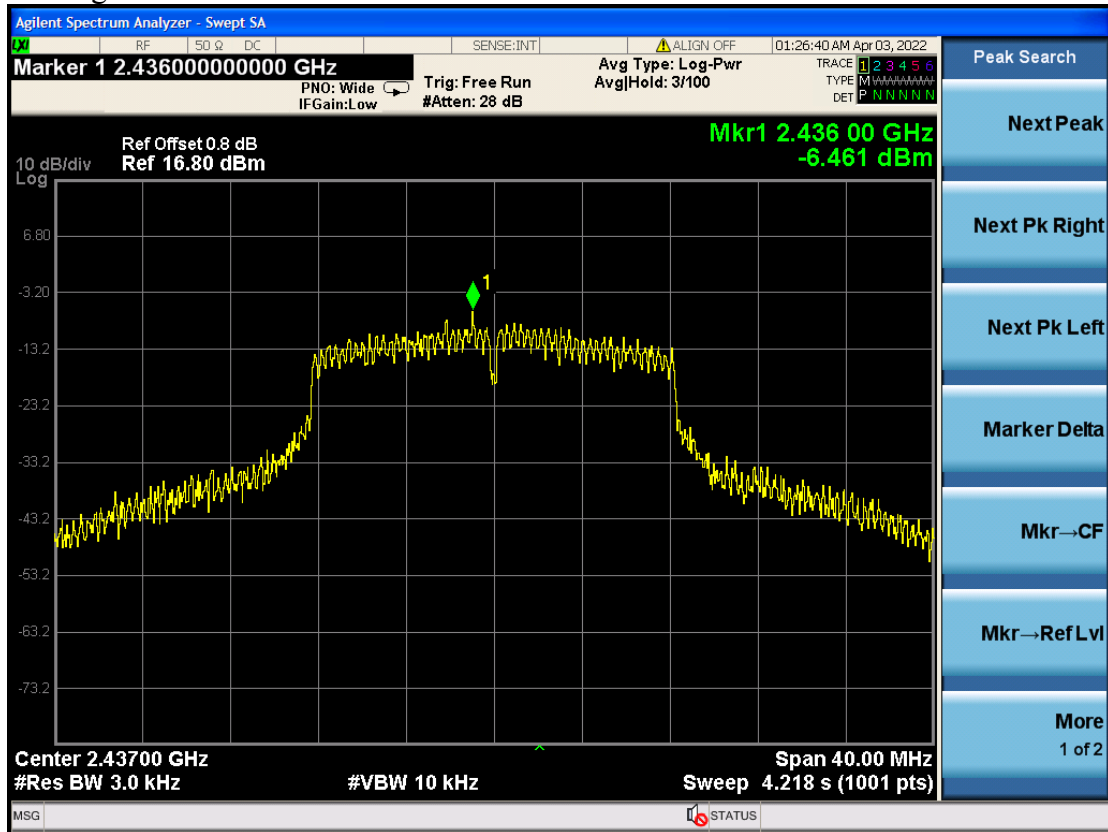
802.11b CH11



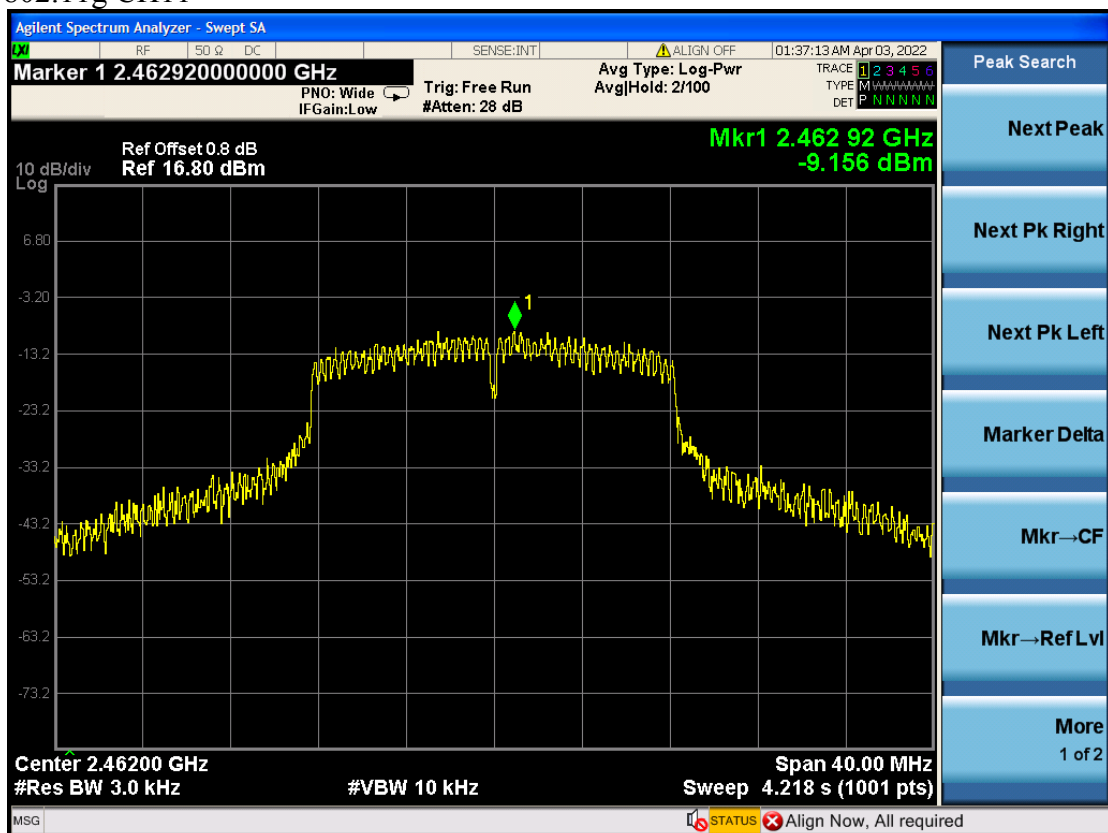
802.11g CH1



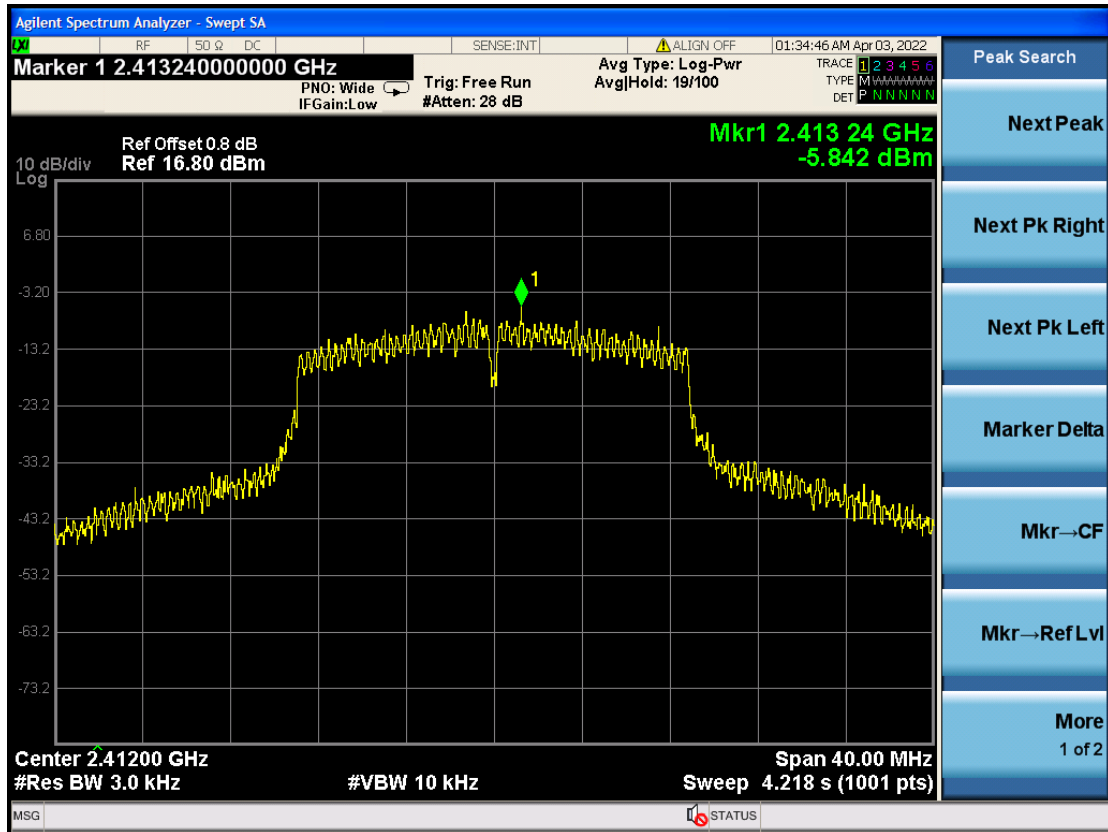
802.11g CH6



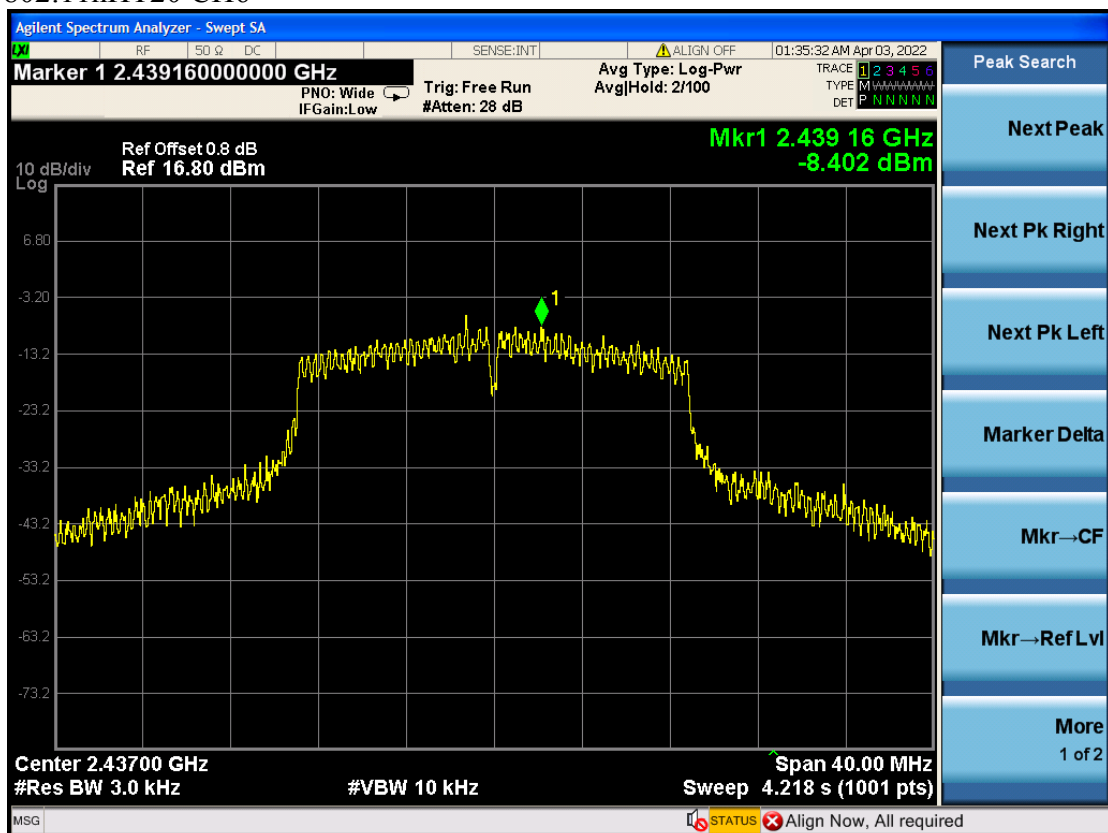
802.11g CH11



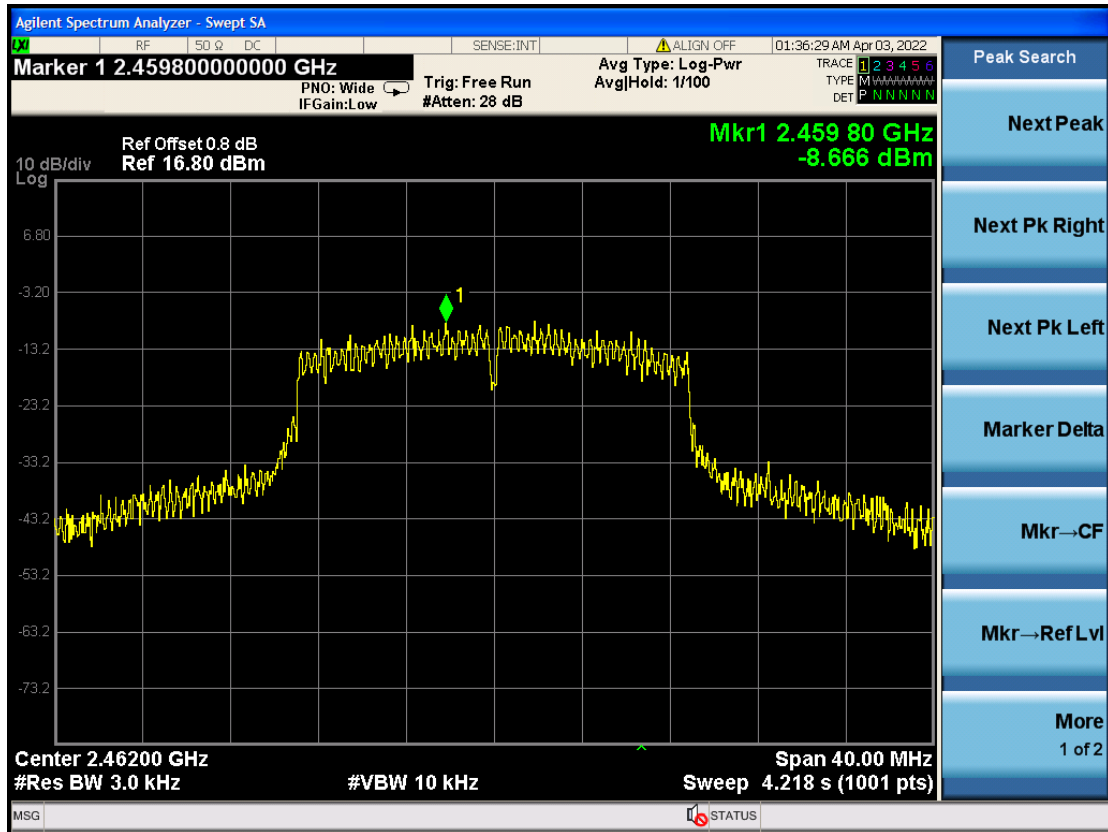
802.11nHT20 CH1



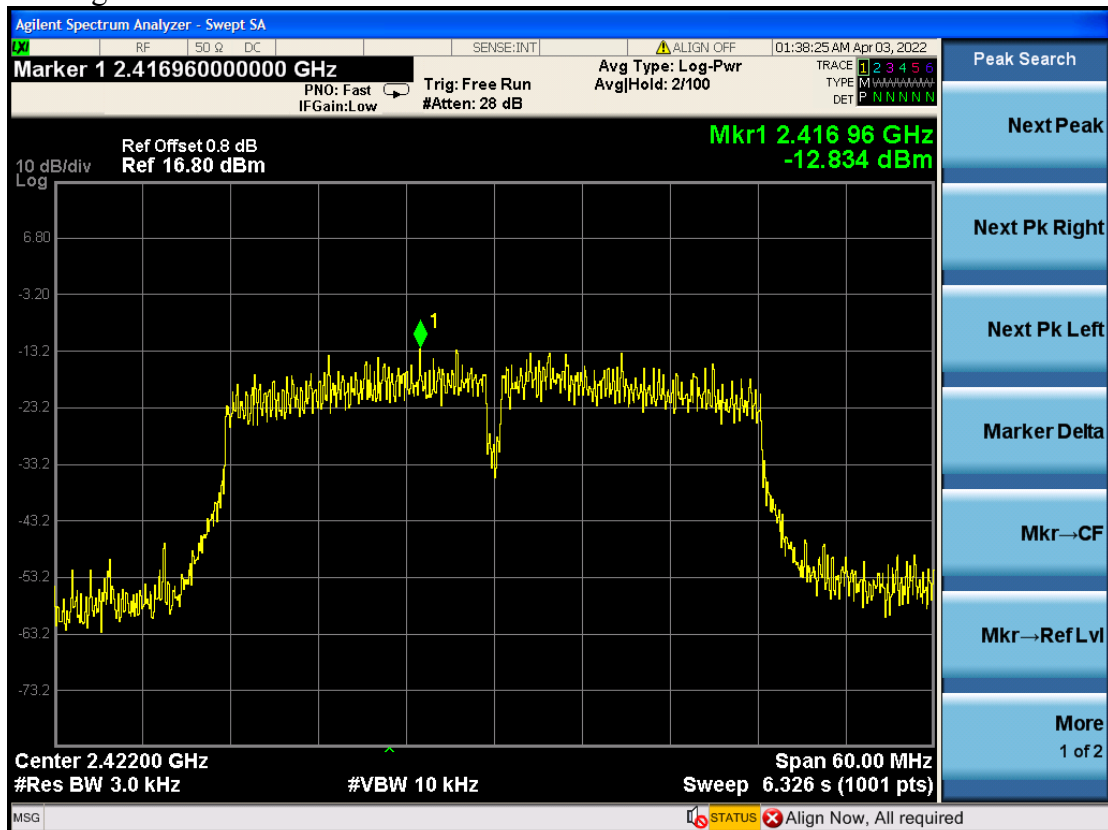
802.11nHT20 CH6



802.11nHT20 CH11



802.11g CH3



9. EMISSION LIMITATIONS MEASUREMENT

9.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Period
1.	PXA signal analyzer	Agilent	N9030A	MY53120217	2022-03-29	1 Year

9.2. Block Diagram of Test Setup

The same as section 6.2.

9.3. Specification Limits

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, that the required attenuation shall be 30 dB instead of 20 dB.

9.4. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v05r02:

- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize to find the max level.

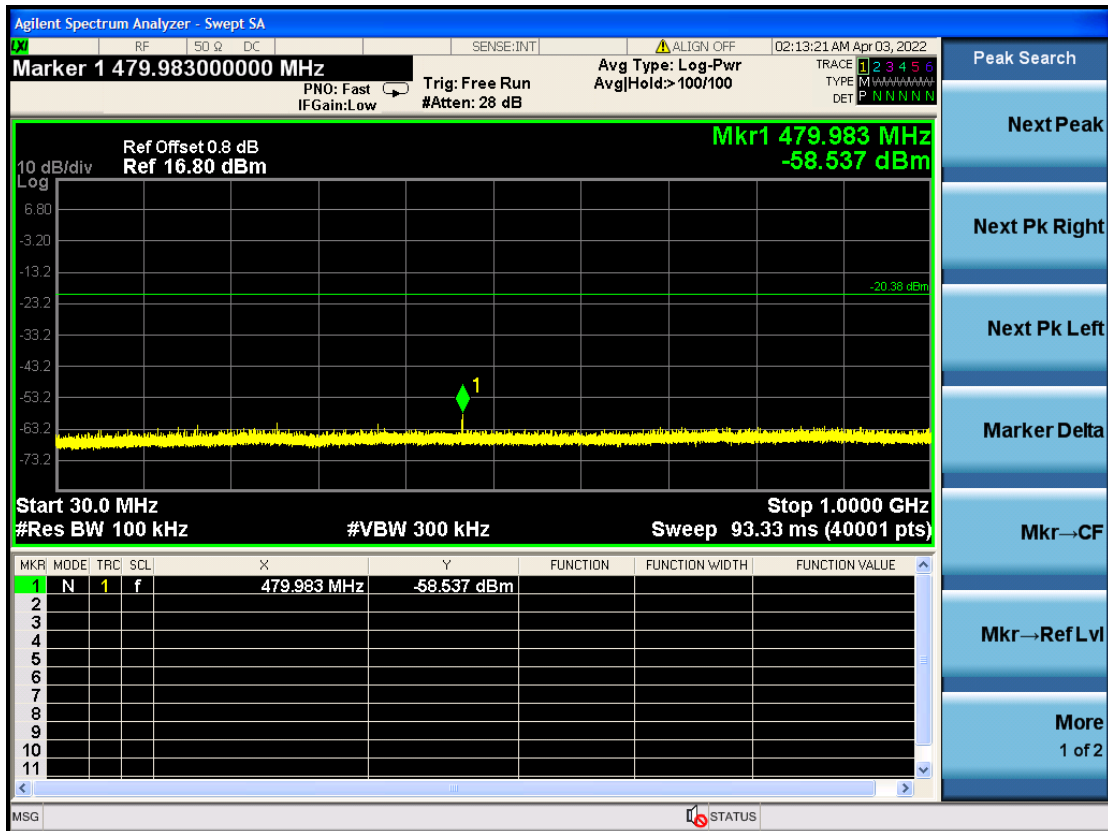
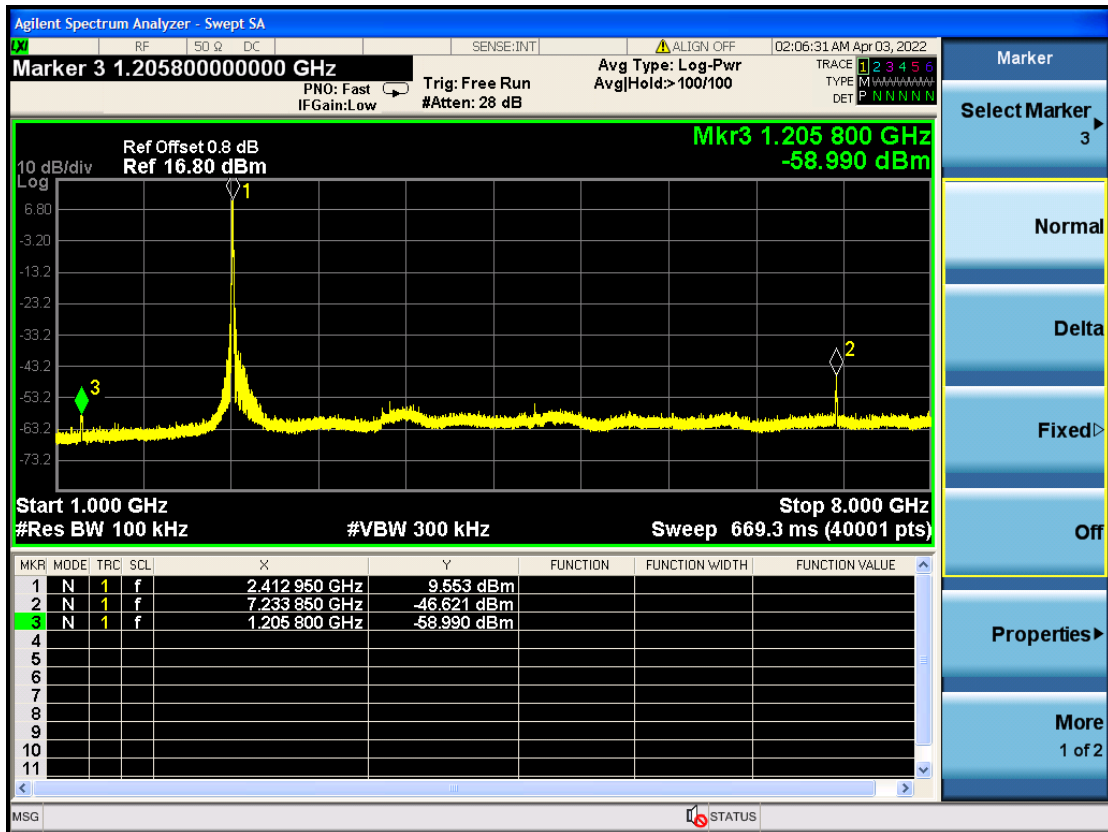
9.5. Test Results

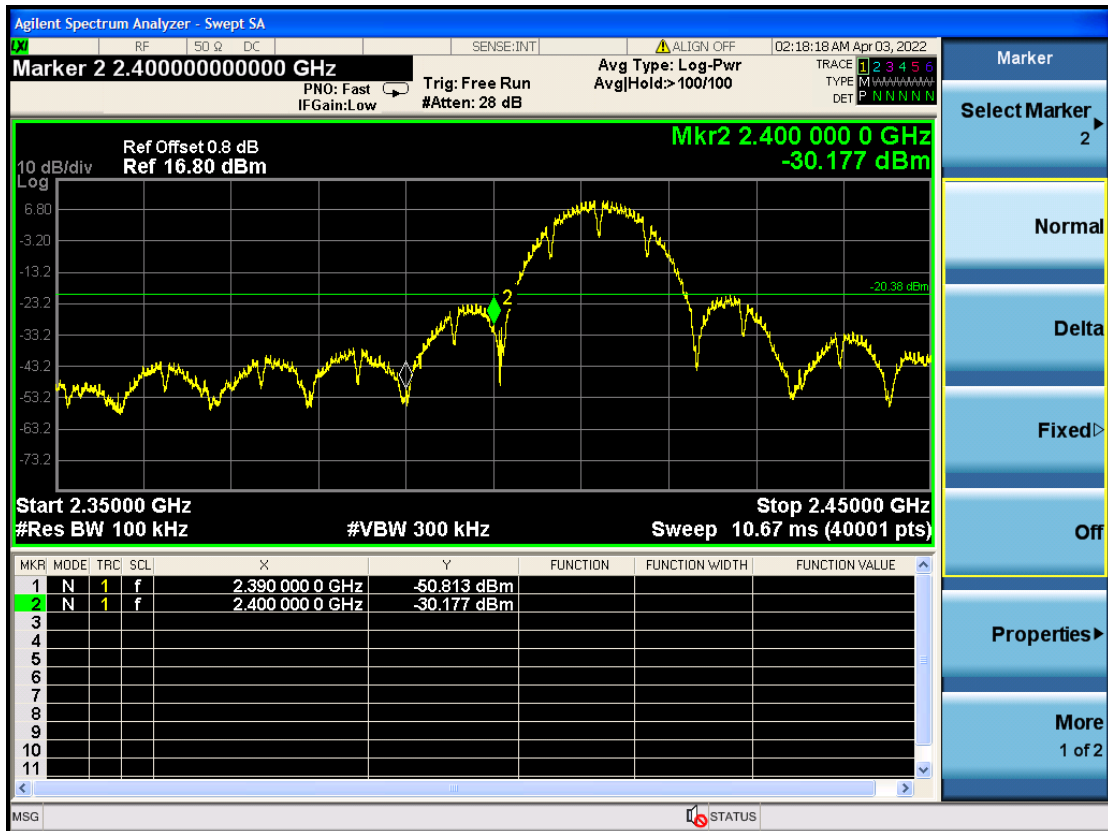
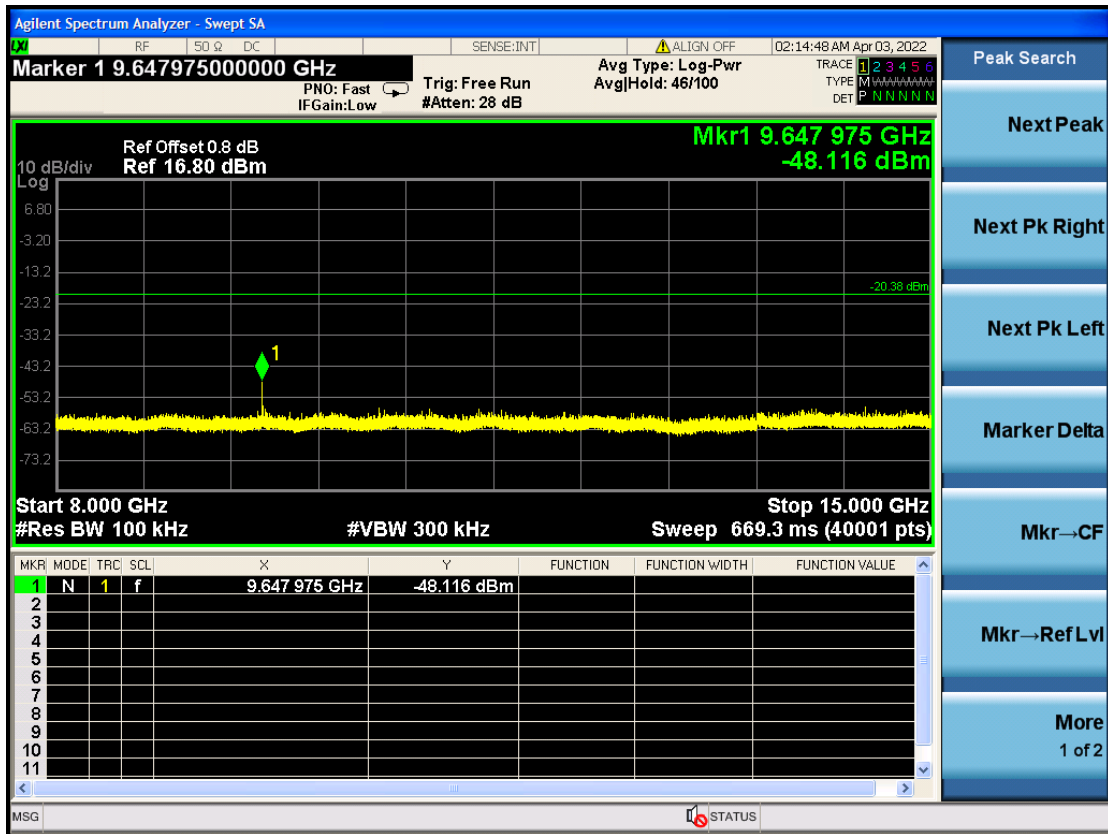
PASSED. All the test results are attached in next pages.

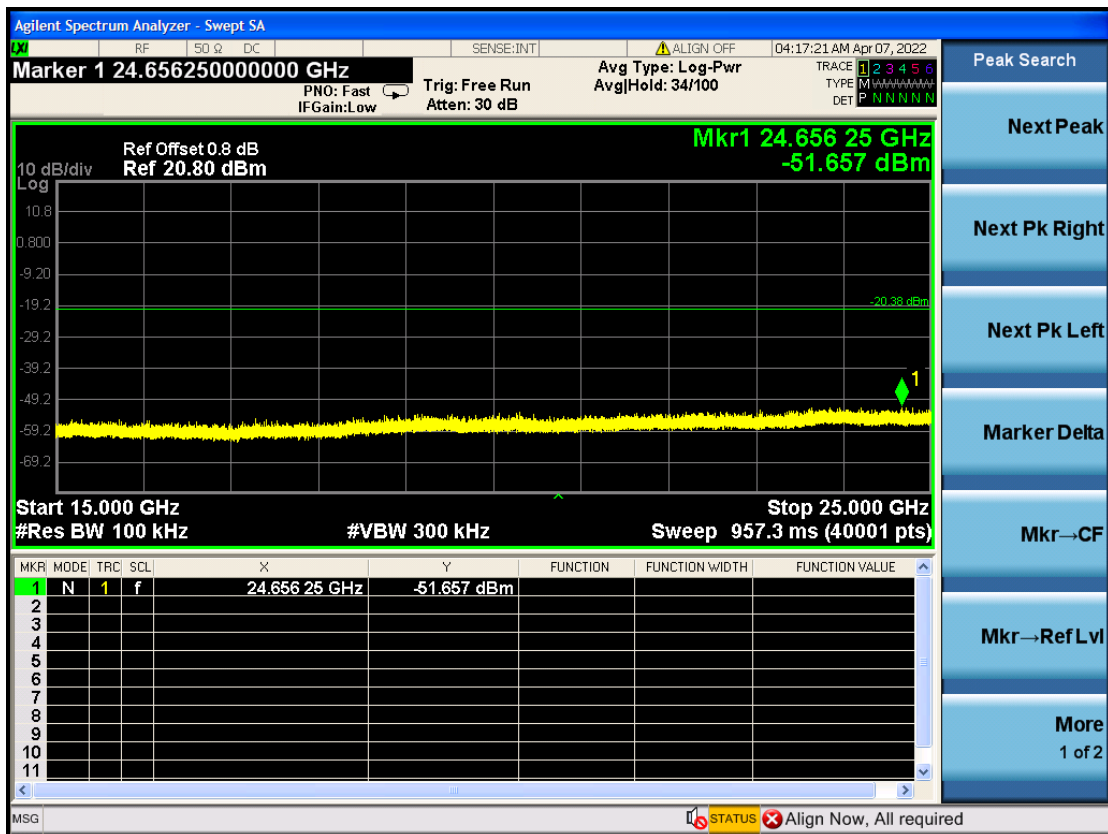
Item	Channel	Frequency (MHz)	Amplitude (dBm)
802.11b	1	2412.950	9.553
		7233.850	-46.621
		1205.800	-58.990
		479.983	-58.537
		9647.975	-48.116
		2390	-50.813
		2400	-30.177
		24656.250	-51.657
	6	2436.400	9.673
		7309.625	-47.732
		1216.475	-54.852
		936.877	-59.674
		9747.900	-49.370
		23688.500	-50.714
	11	2461.425	9.552
		5737.775	-49.716
		1770.525	-37.830
		774.427	-59.731
		9848.000	-51.700
		24.09625	-51.288
		2483.500	-39.564
802.11g	1	2410.675	8.330
		7234.375	-48.893
		1205.100	-55.536
		480.007	-56.800
		9647.975	-51.015
		2390.000	-35.981
		23943.500	-51.104
	6	2430.800	6.389
		7304.900	-50.527
		1215.950	-56.874
		480.007	-56.100
		14563.025	-54.683
		23988.250	-51.529
	11	2460.725	7.762
		7386.625	-52.544
		1232.225	-55.024
		479.983	-56.890
		14247.150	-54.828
		2483.500	-28.785
		24034.000	-51.132
802.11n HT20	1	2410.675	6.079
		7235.950	-51.598
		1770.525	-54.472
		829.183	-52.568
		9647.975	-52.442
		23745.750	-49.274

		2390.000	-38.907
		2400.000	-26.243
	6	2435.700	6.103
		7309.275	-53.126
		3794.225	-53.100
		827.364	-50.178
		13952.625	-52.237
		23772.000	-49.214
	11	2463.175	6.252
		3714.075	-53.176
		1783.475	-52.386
		479.983	-57.223
		14037.675	-52.388
		22364.000	-49.959
		2483.500	-29.953
802.11n HT40	3	2424.500	2.742
		1207.375	-58.579
		1767.200	-49.570
		39.991	-51.568
		14838.125	-52.077
		24450.500	-49.430
		2390.000	-44.295
		2400.000	-41.124
	6	2434.475	2.671
		3704.800	-53.420
		1774.025	-48.926
		39.991	-52.421
		10667.700	-52.785
		23688.250	-49.852
	9	2457.050	1.958
		1222.250	-60.782
		1766.325	-55.227
		30.024	-56.382
		14832.525	-60.186
		22957.000	-57.378
		2483.500	-32.636
		2484.5175	-30.338
		2489.4585	-30.272

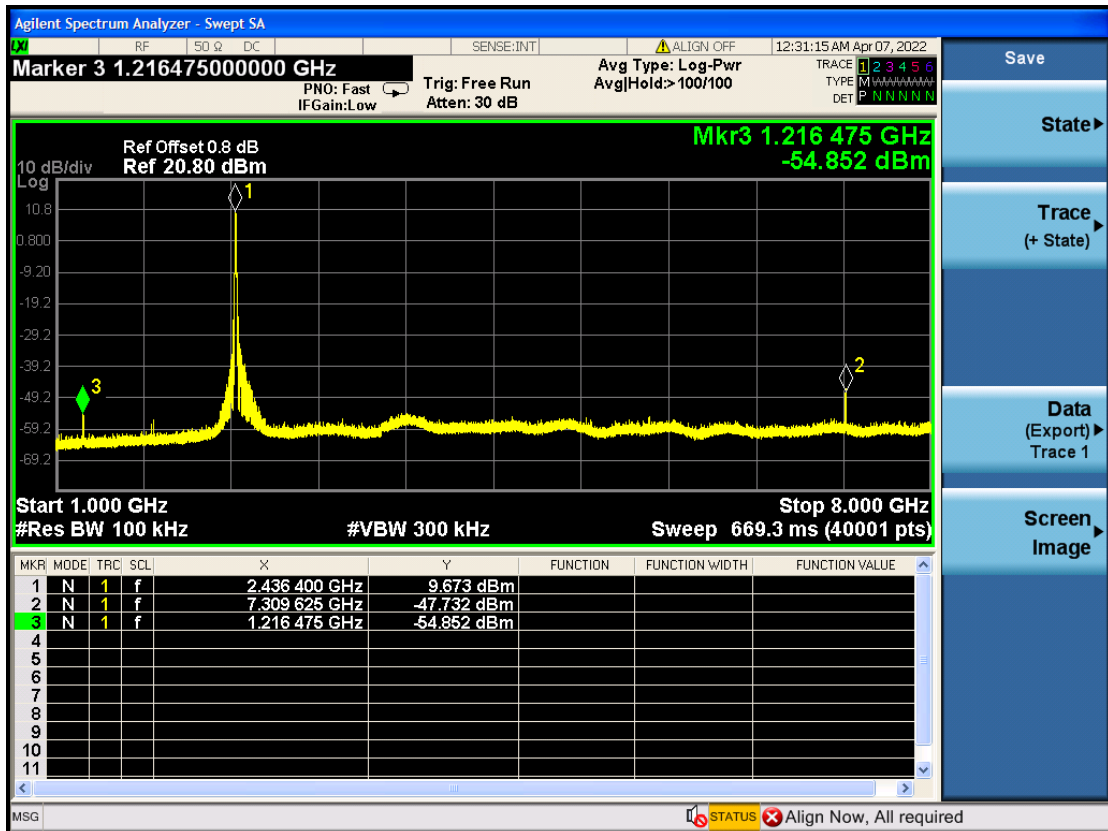
802.11b CH1

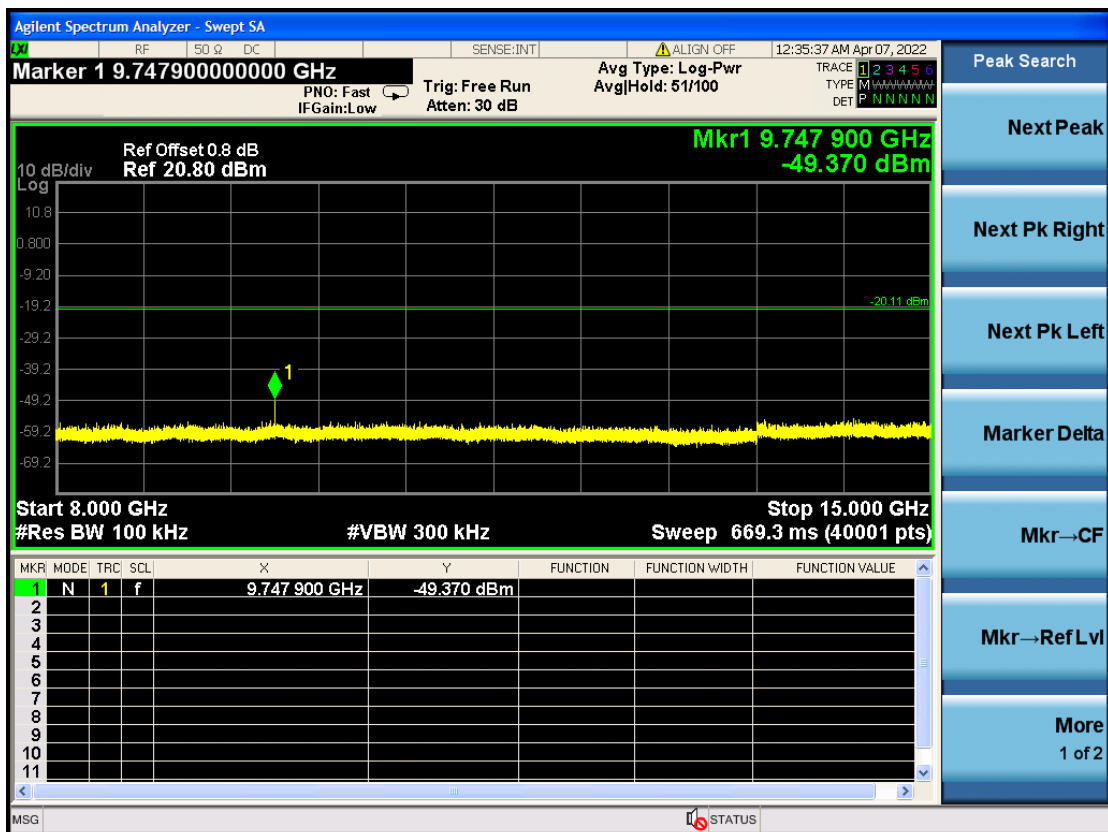
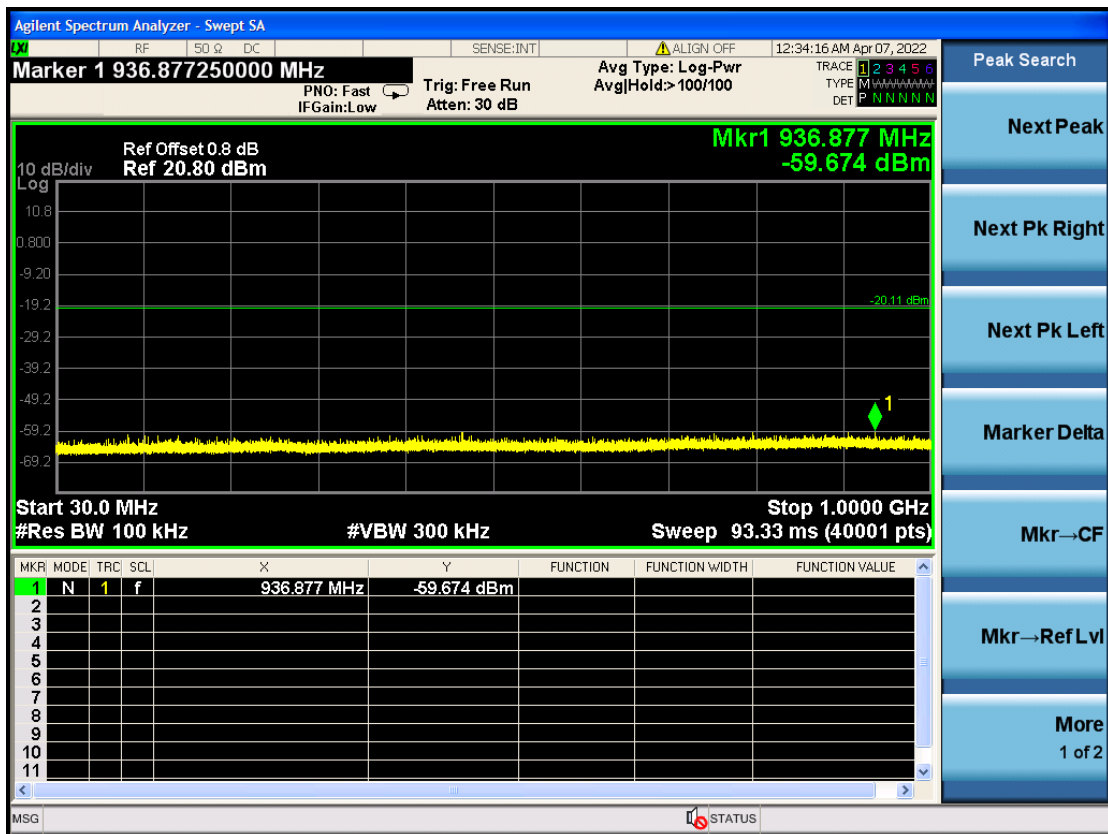


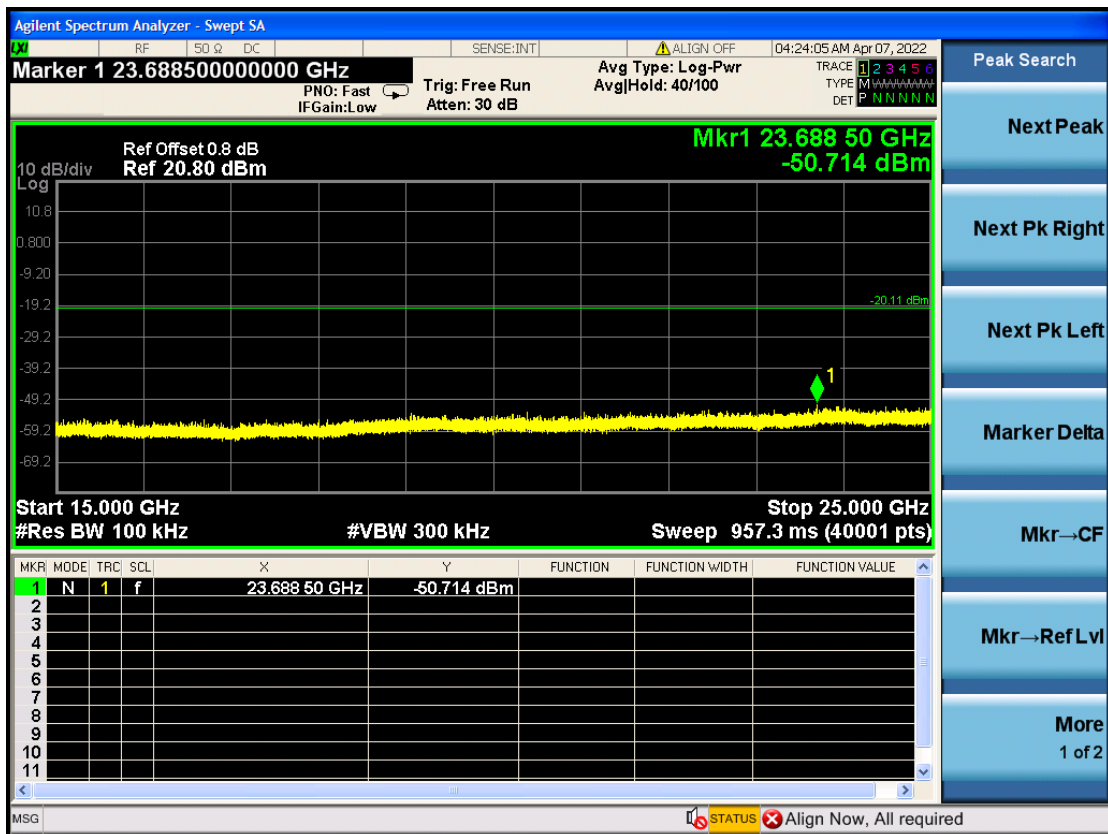




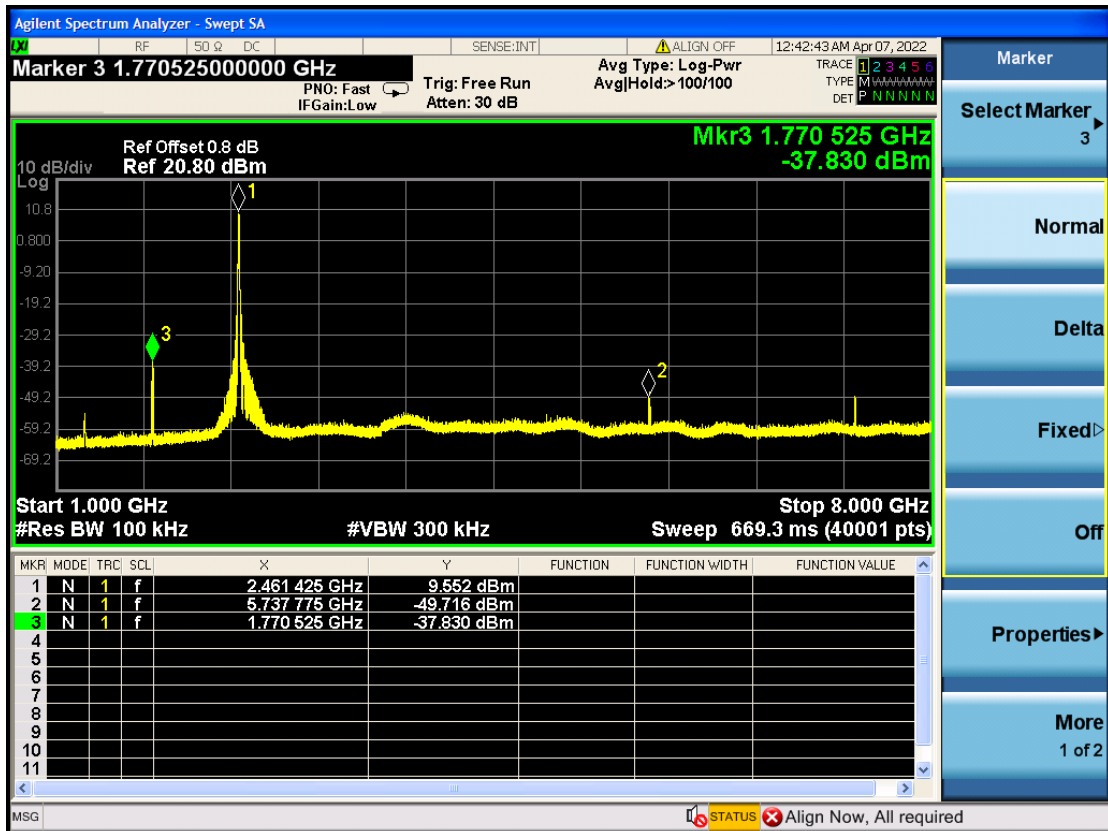
802.11b CH6

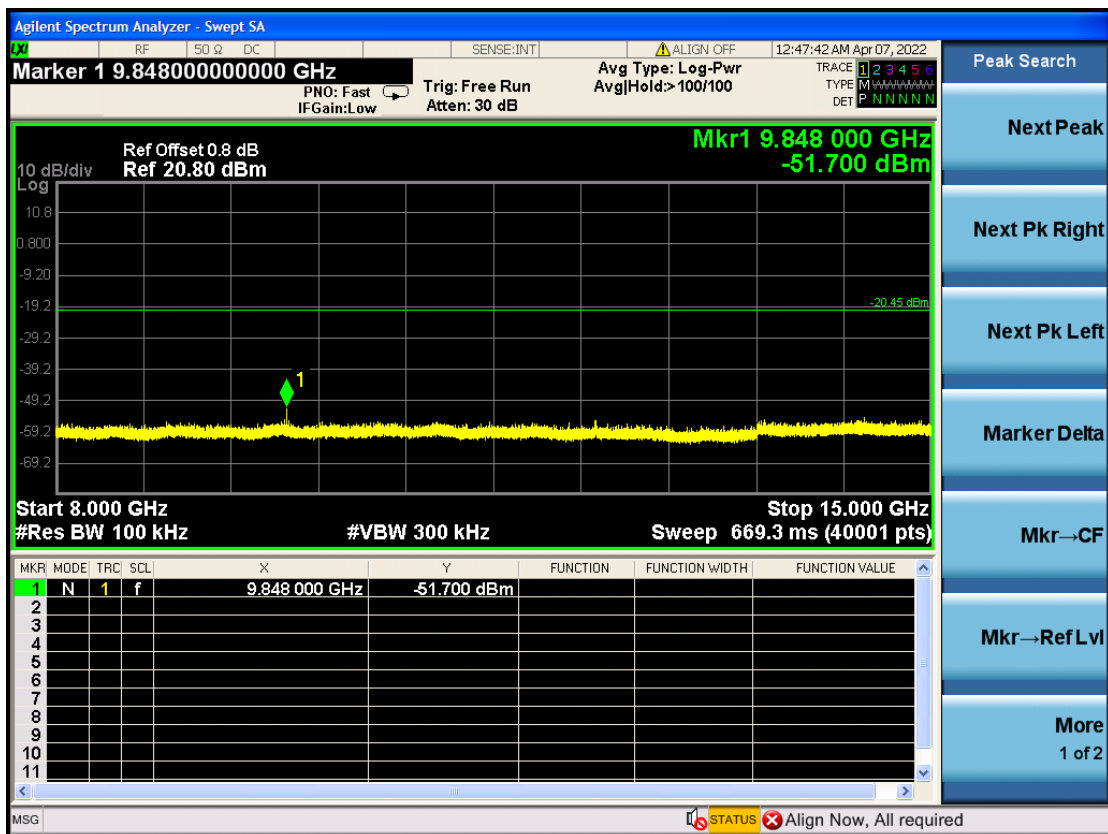
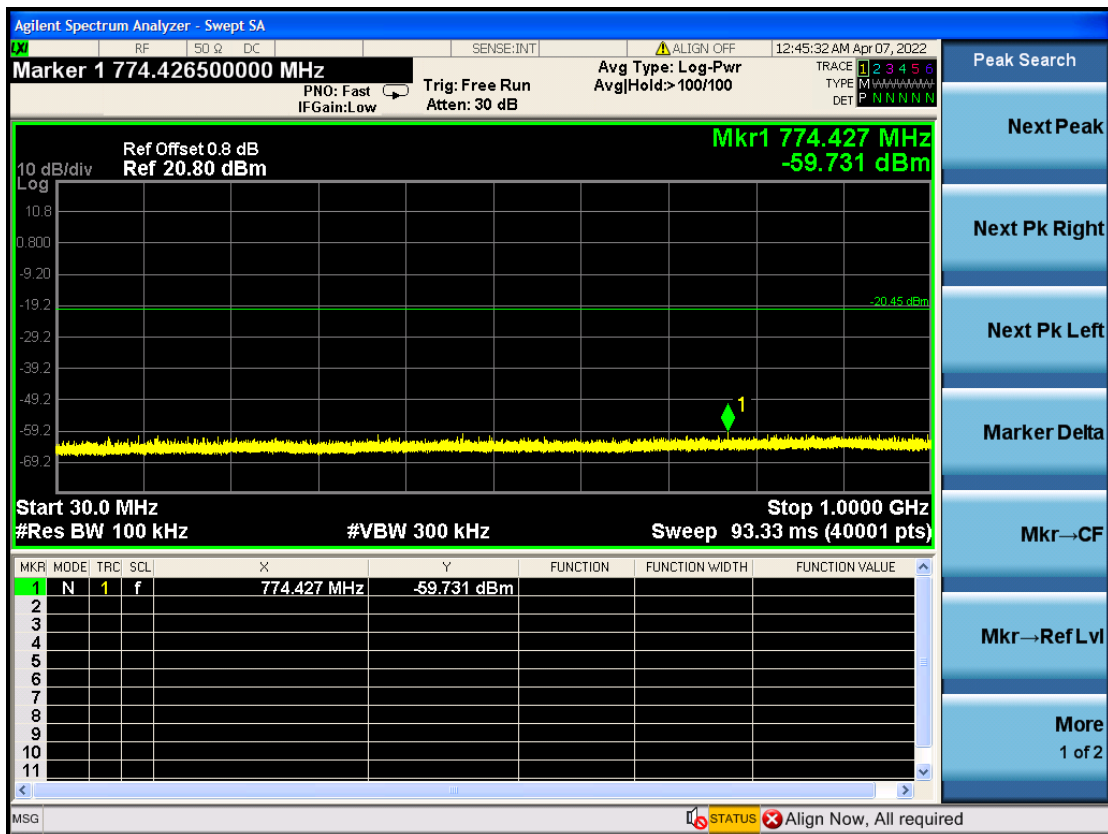


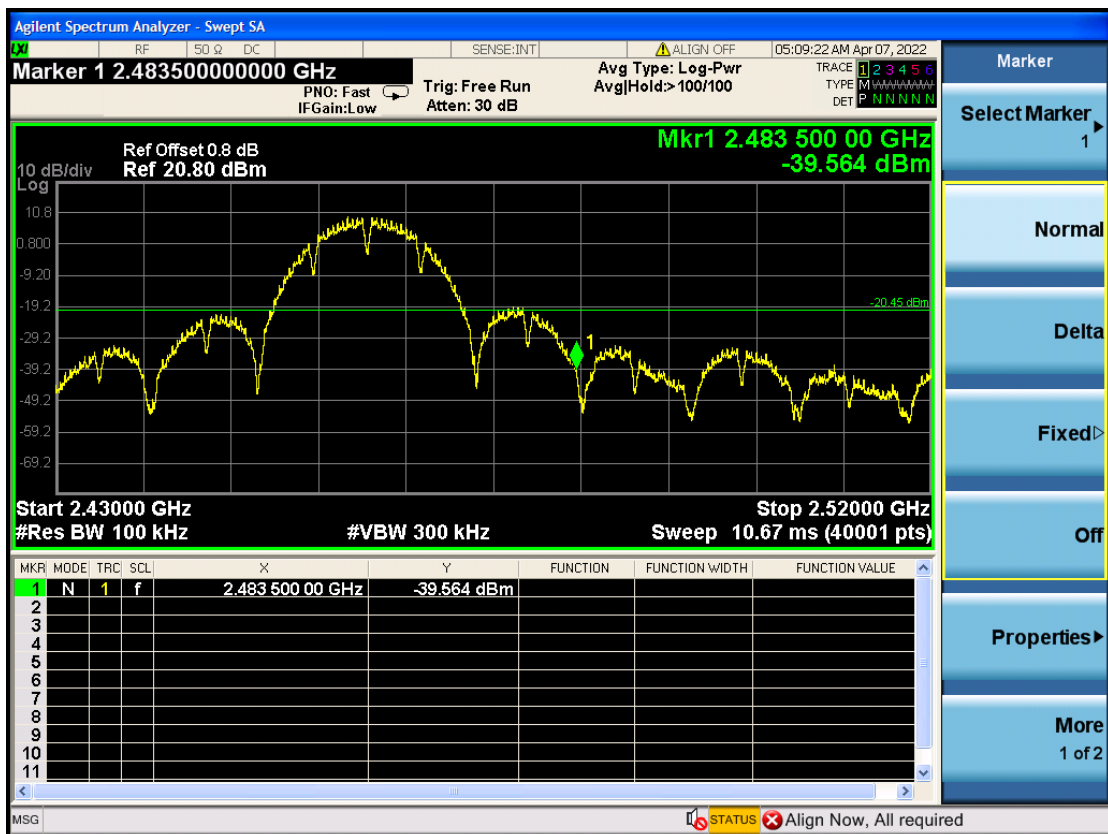
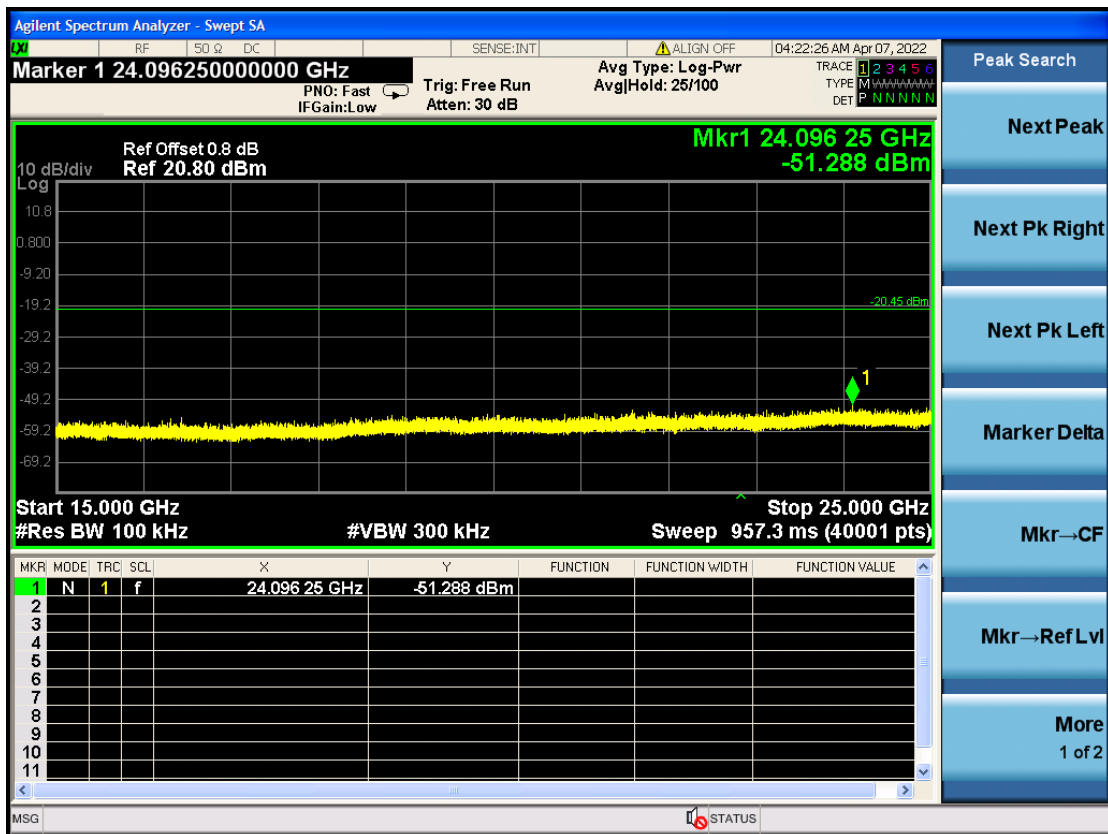




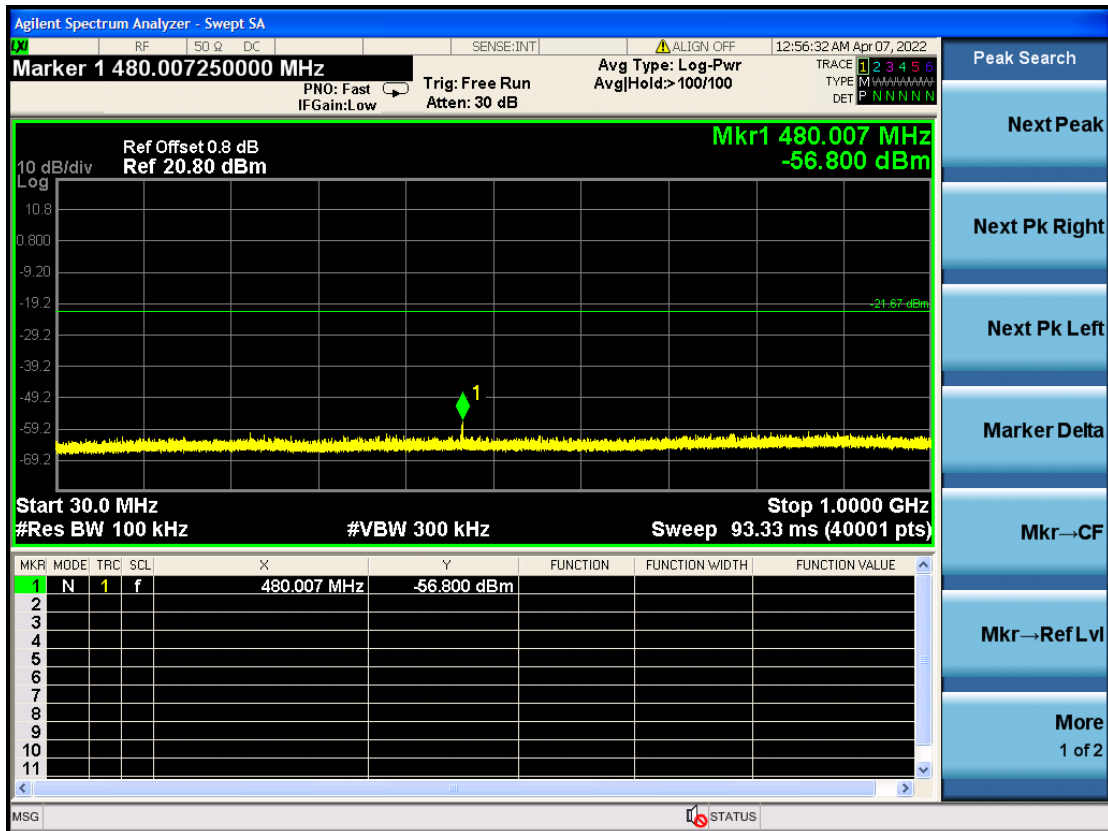
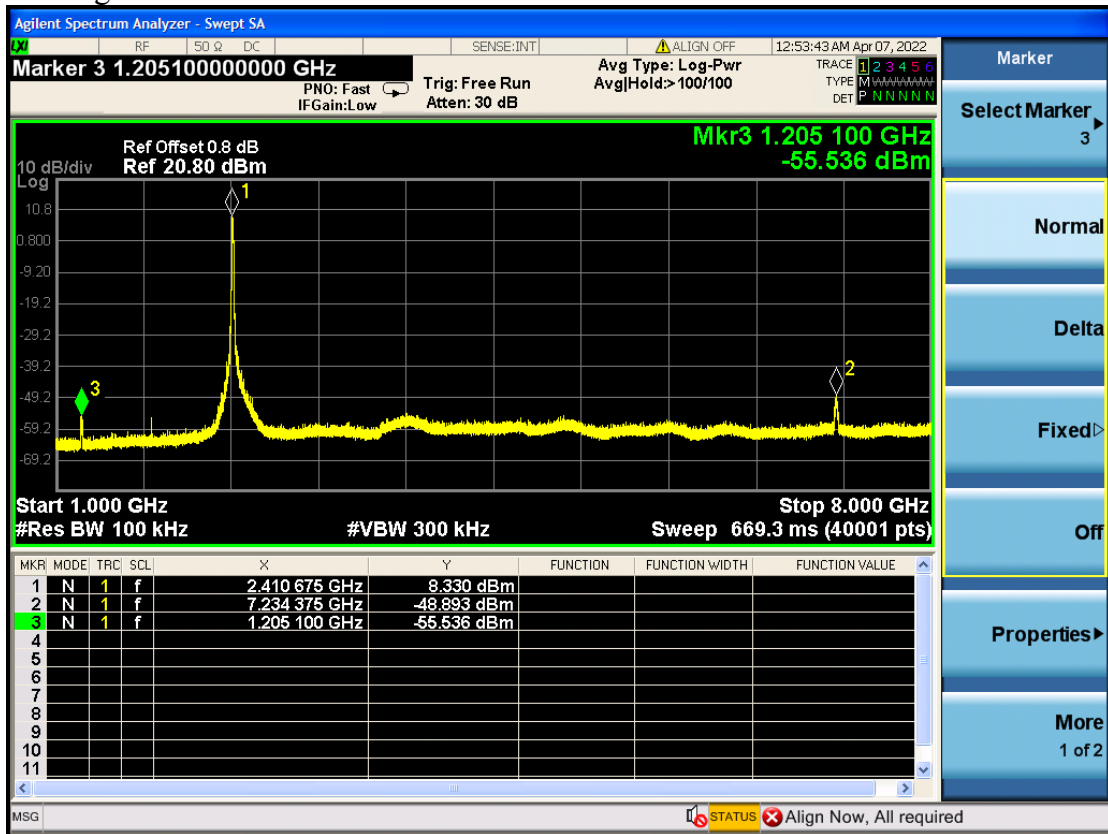
802.11b CH11

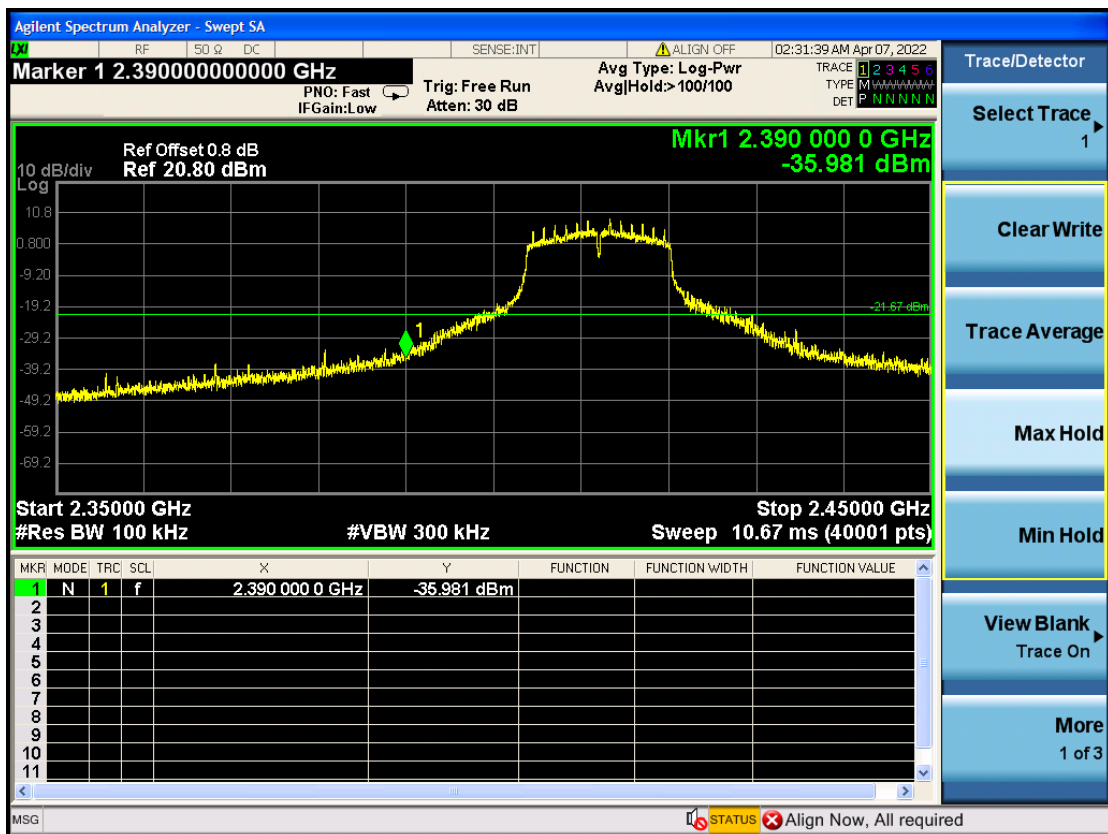
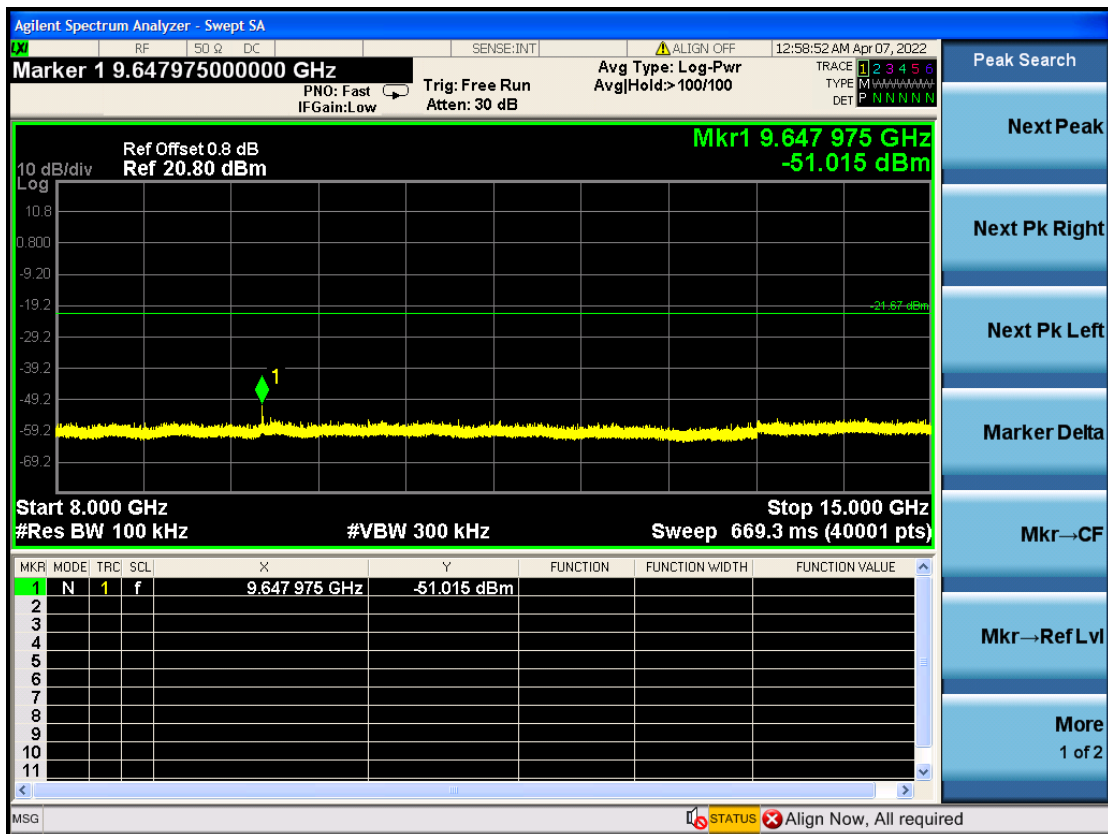


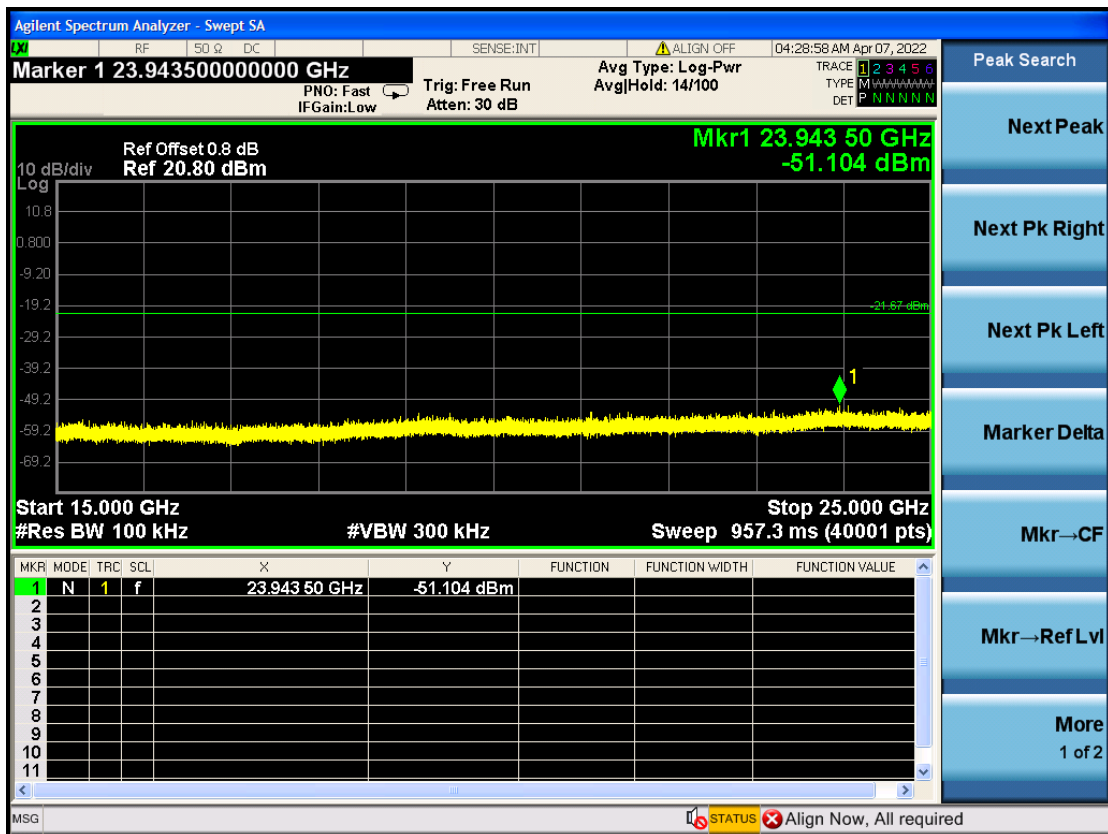




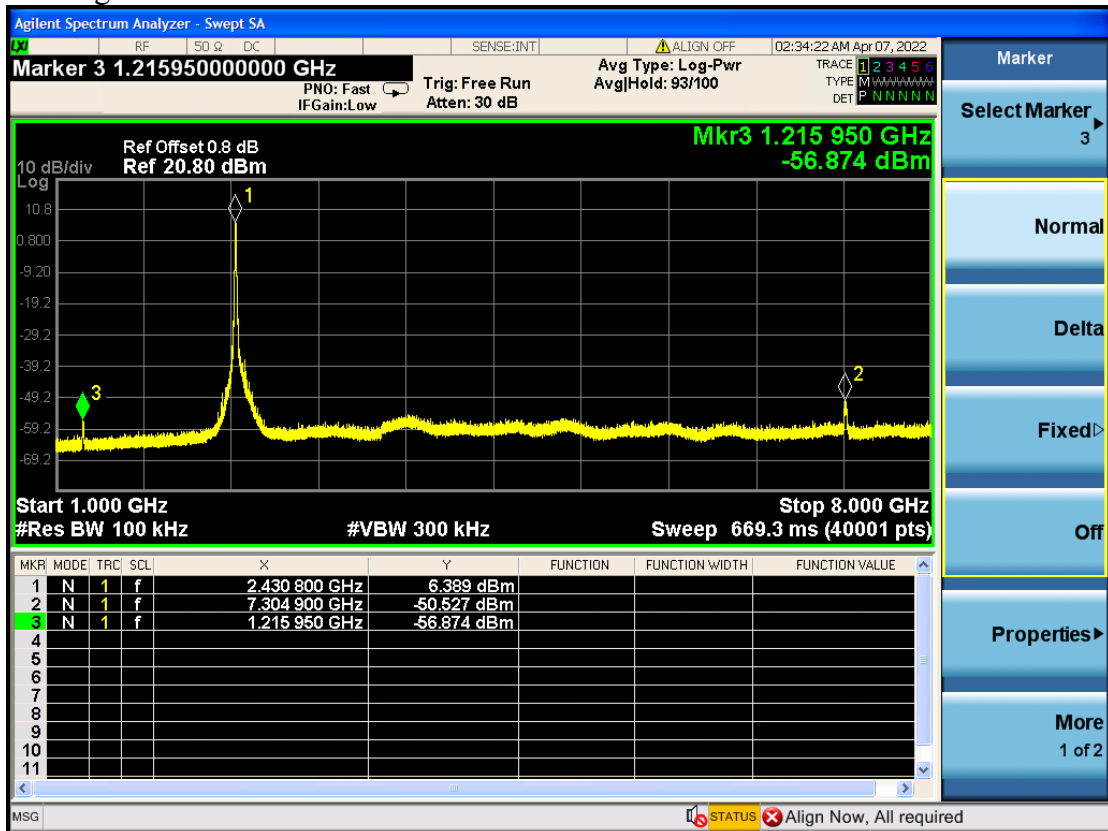
802.11g CH1

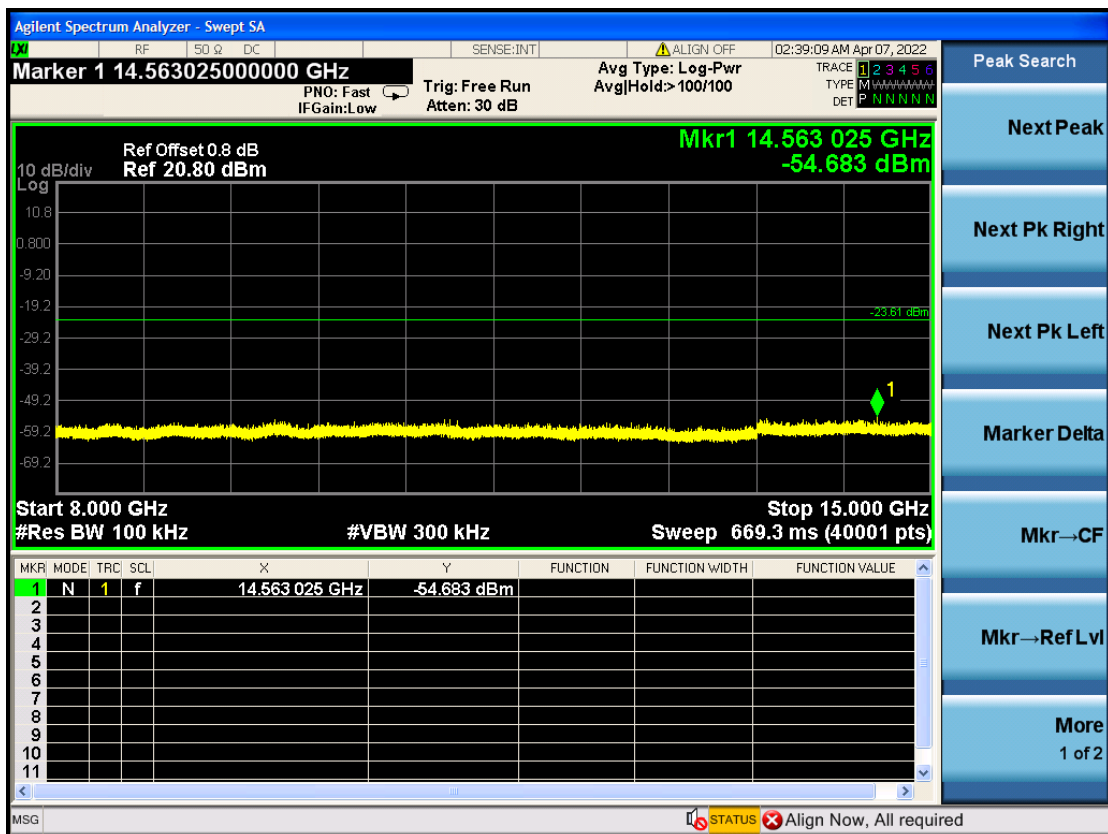
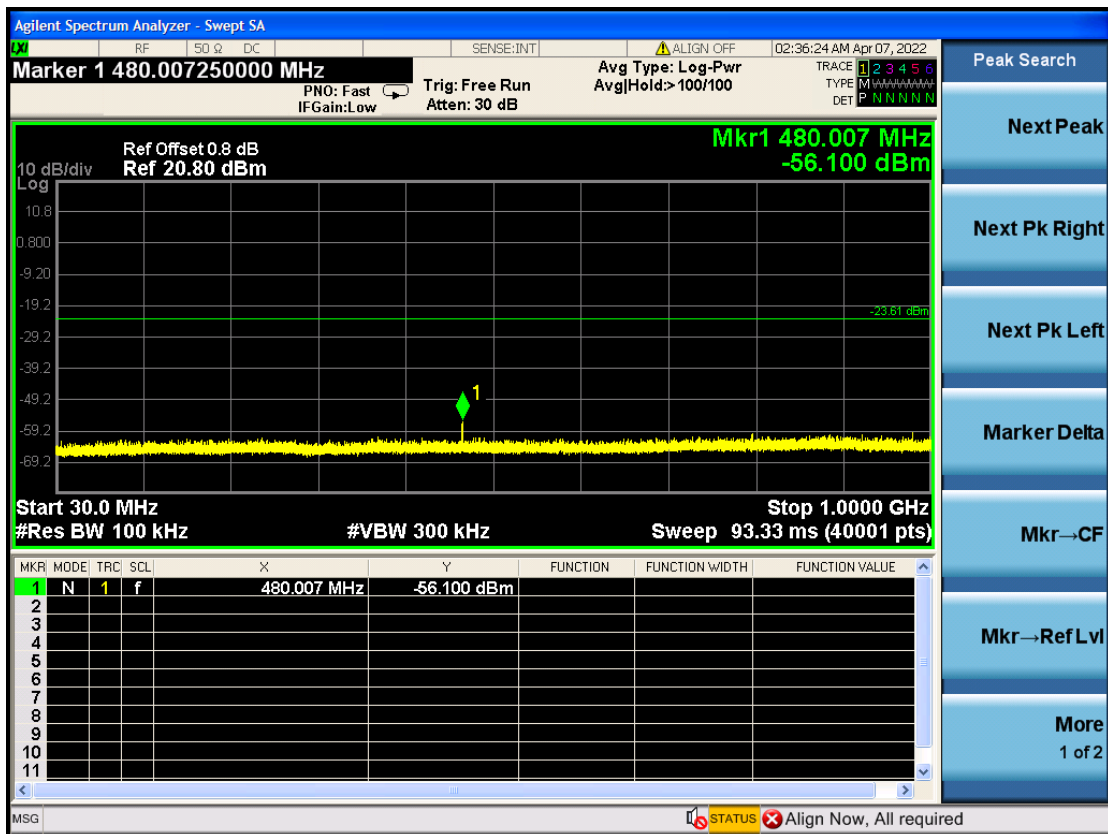


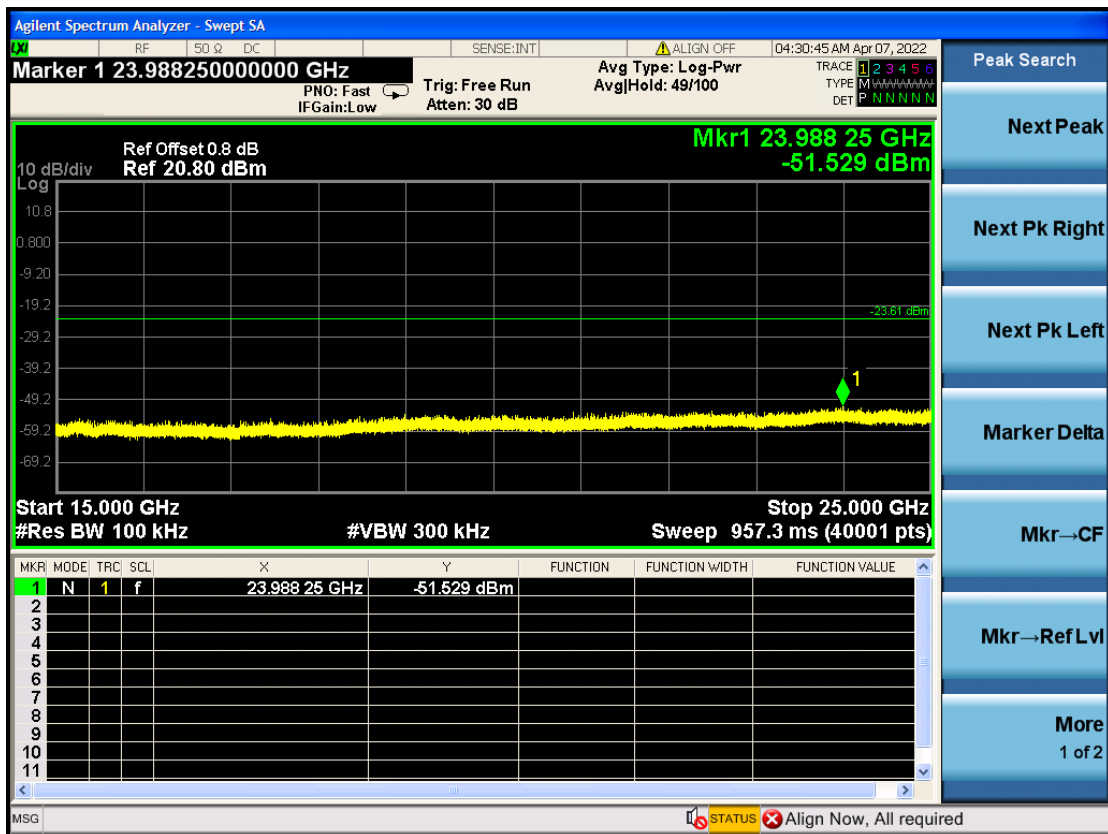




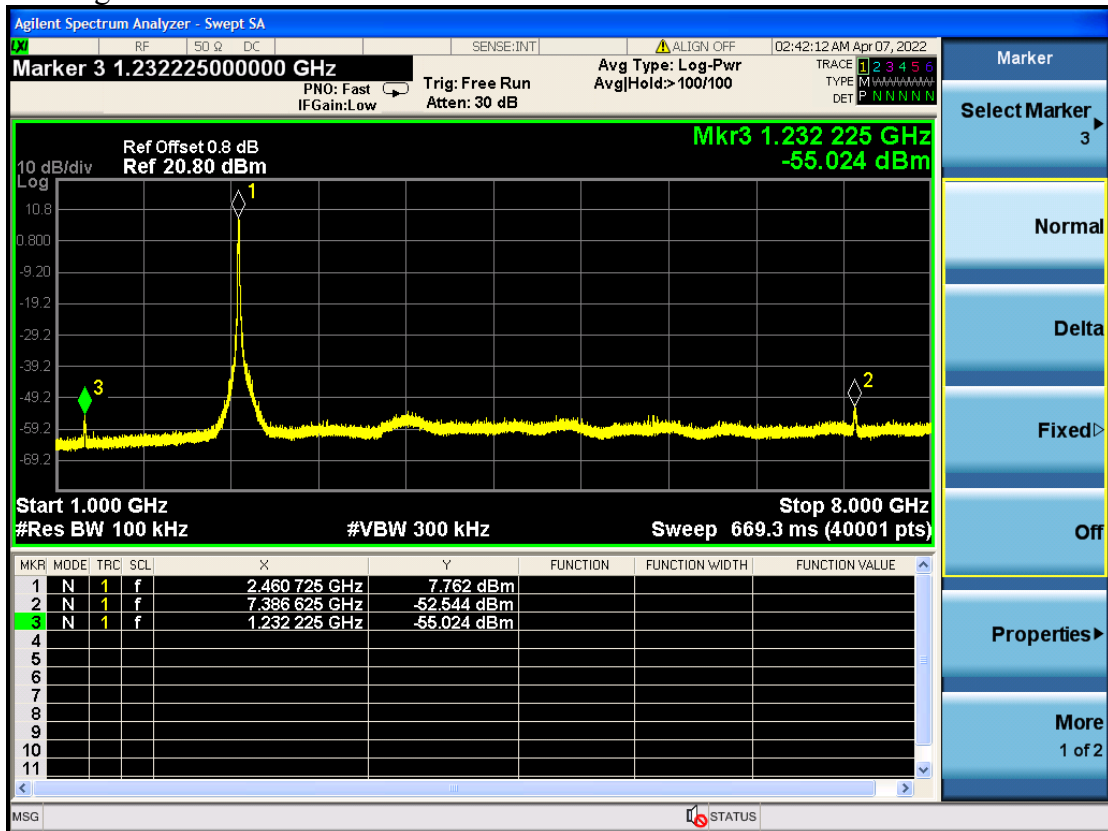
802.11g CH6

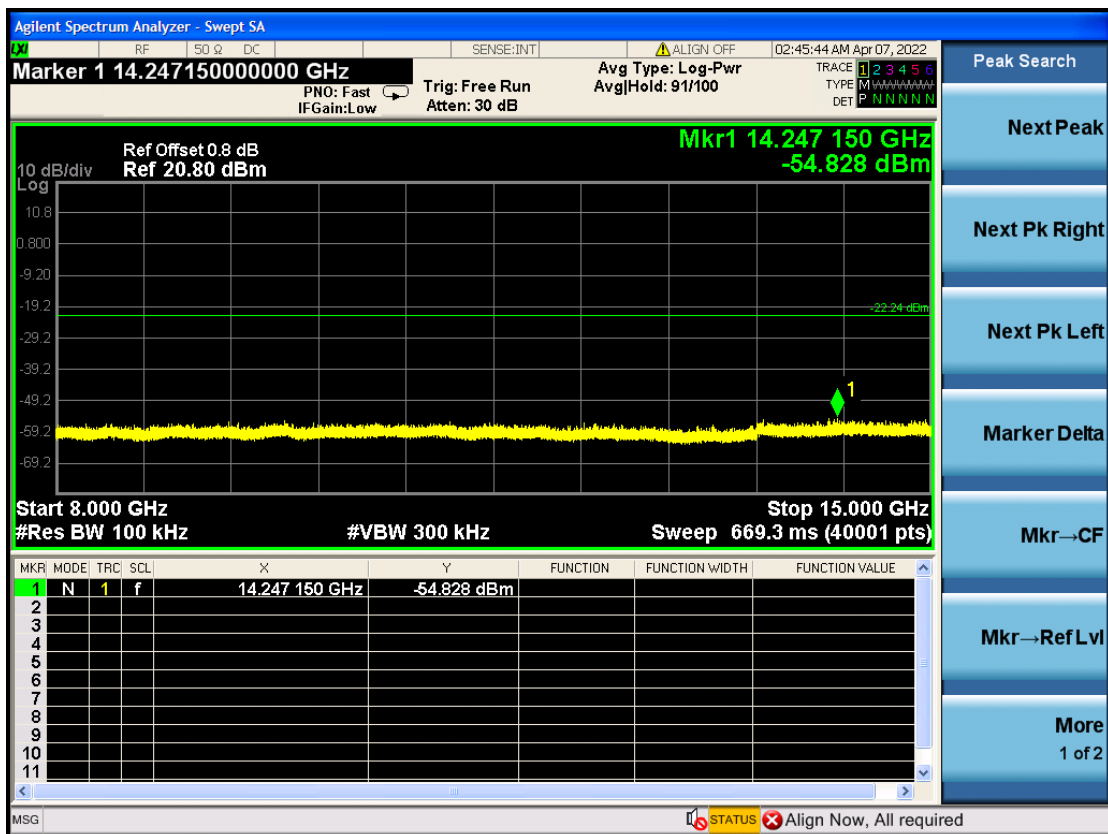
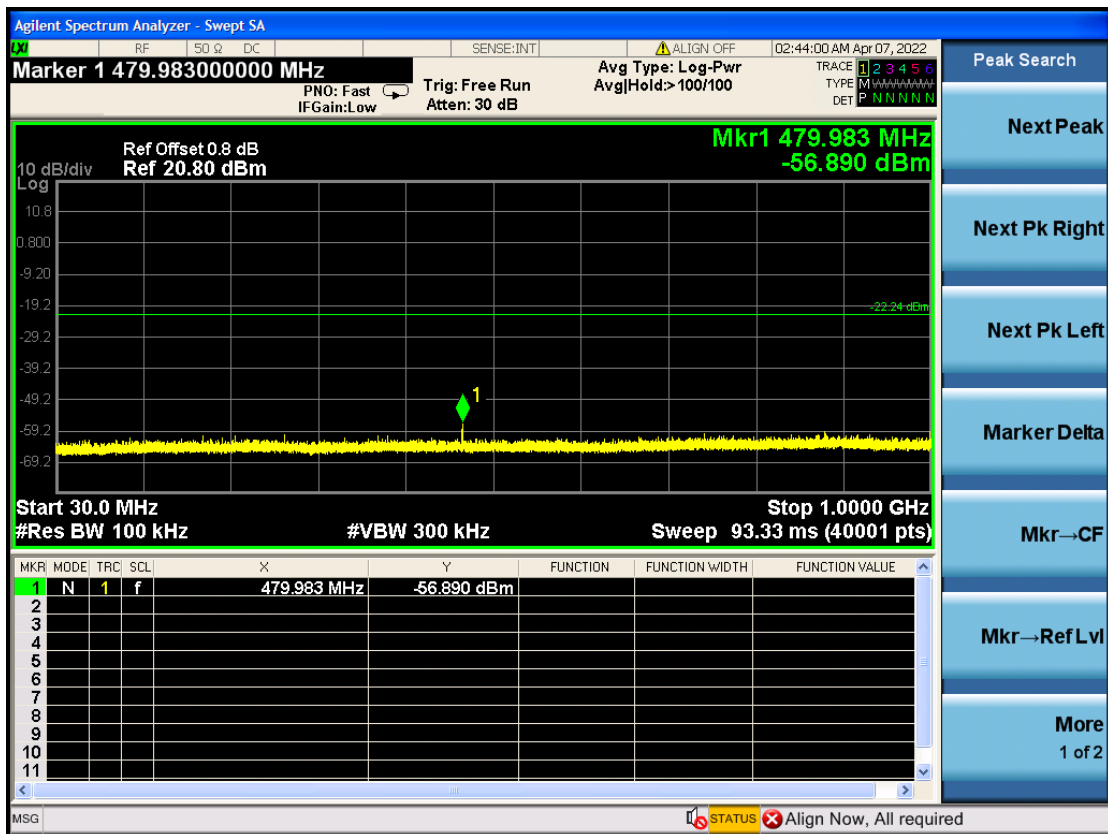


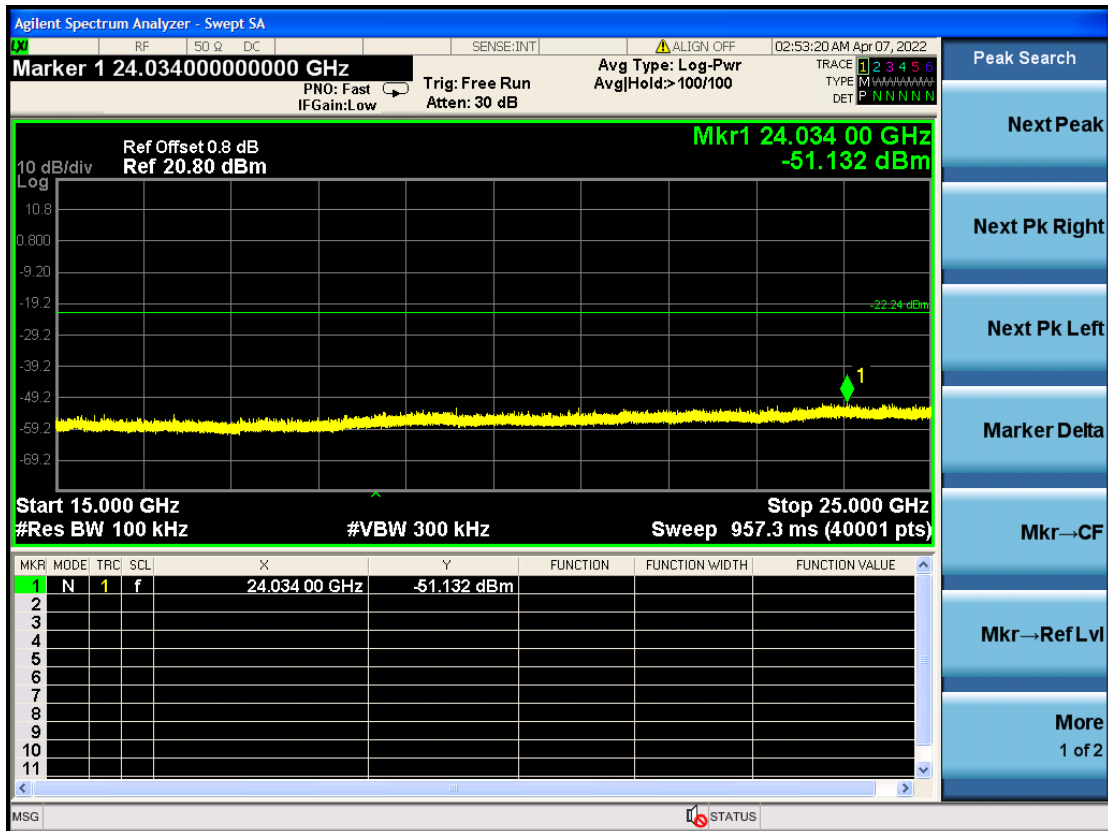
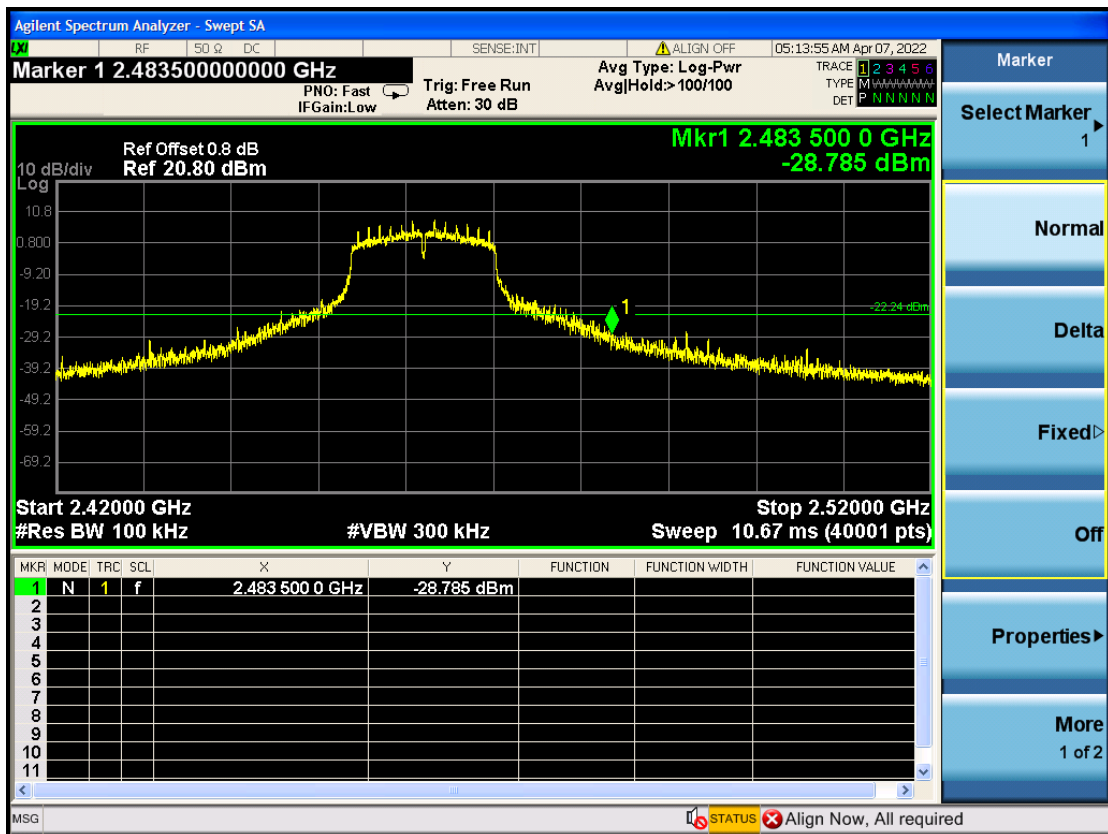




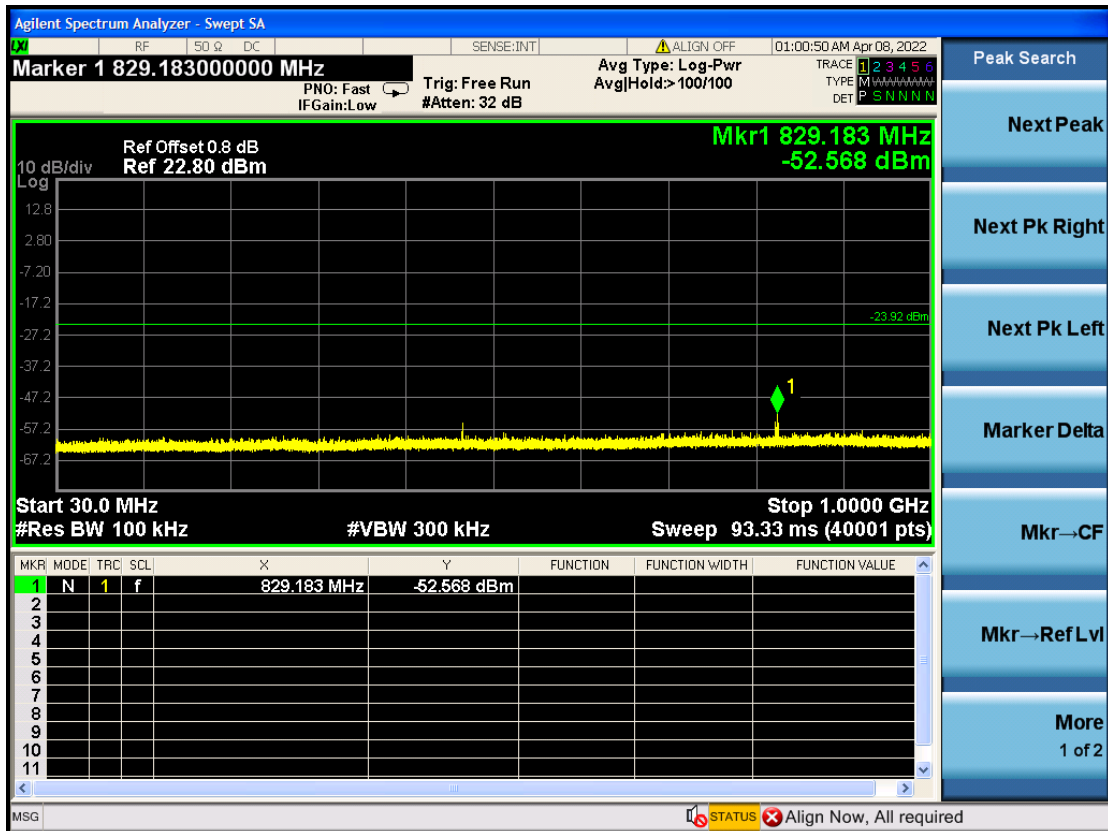
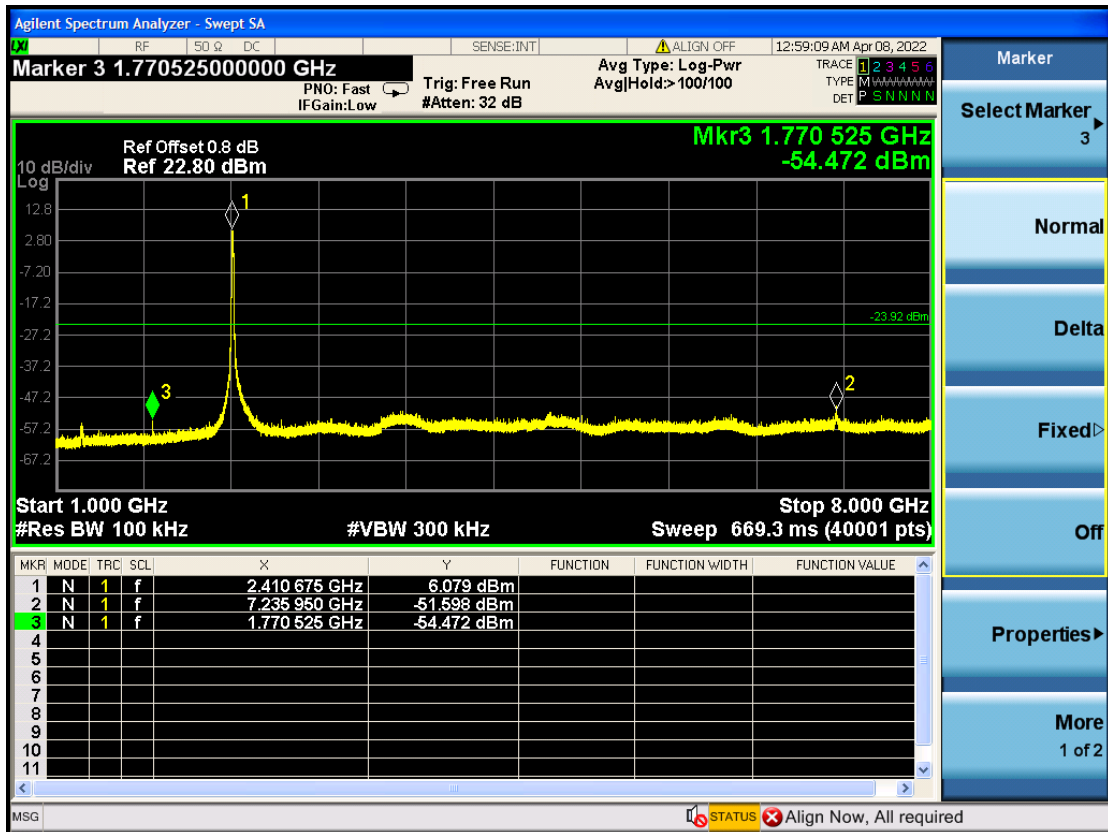
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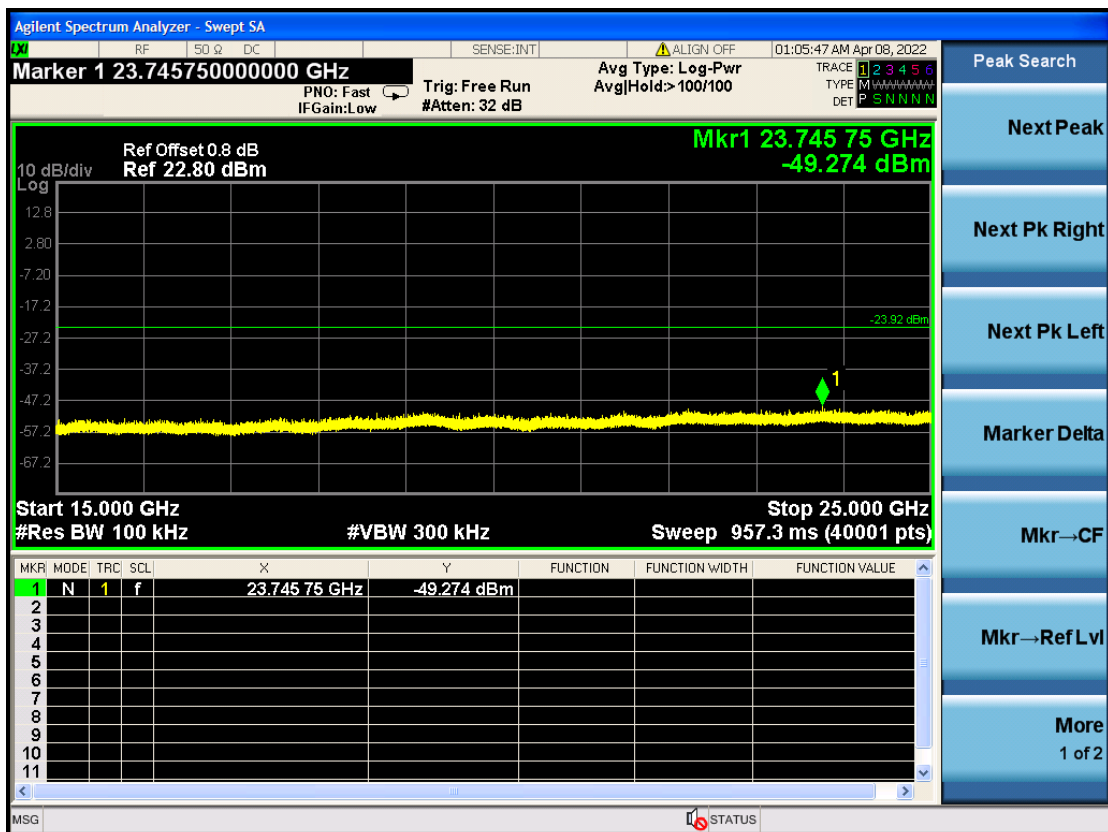
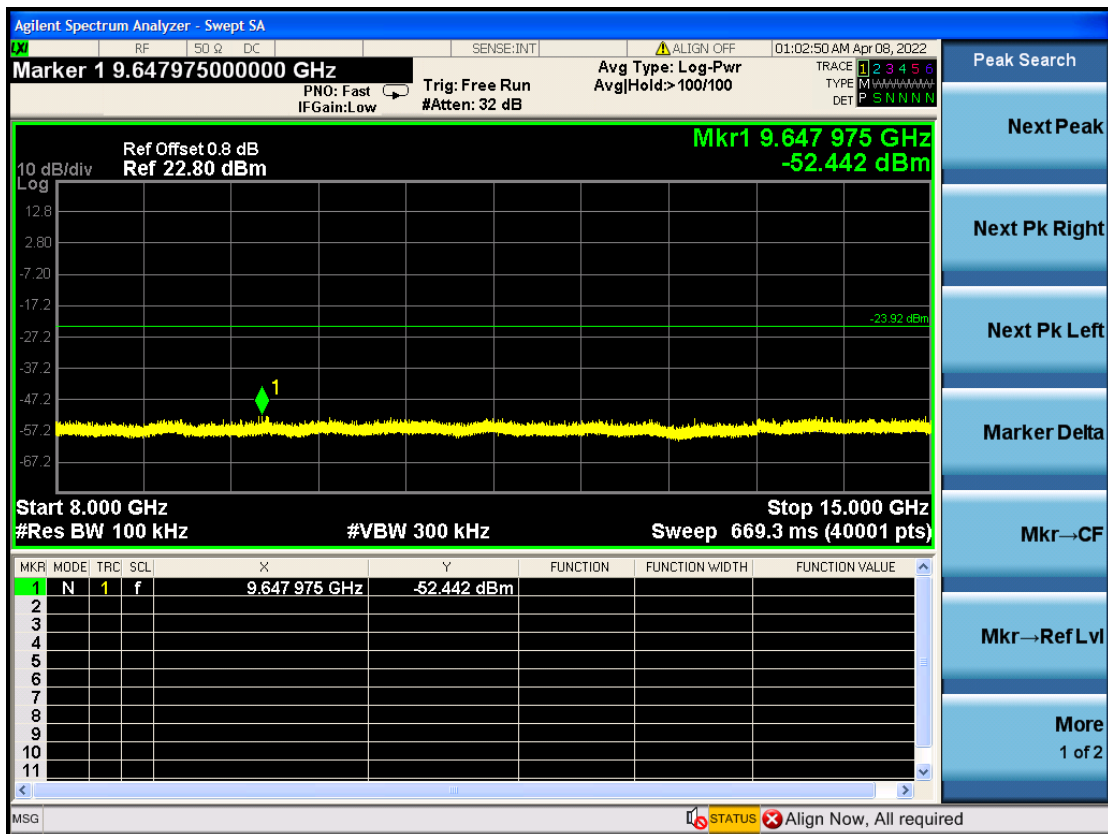


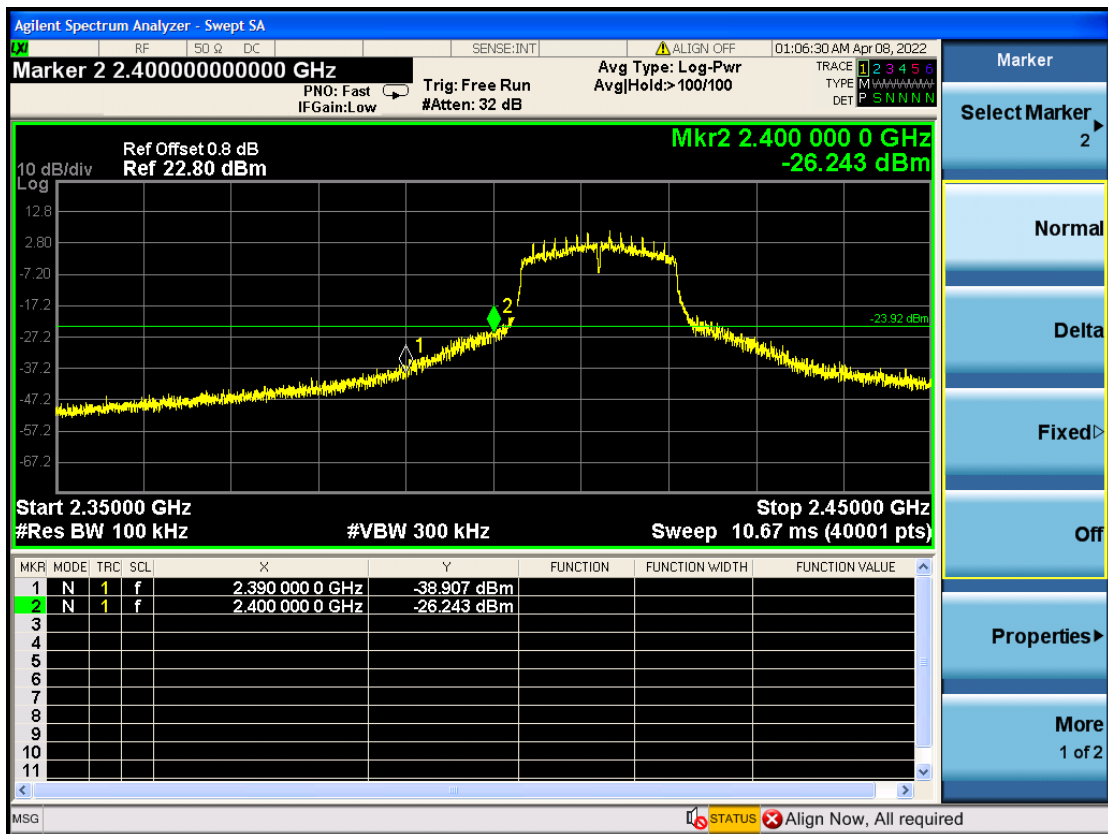




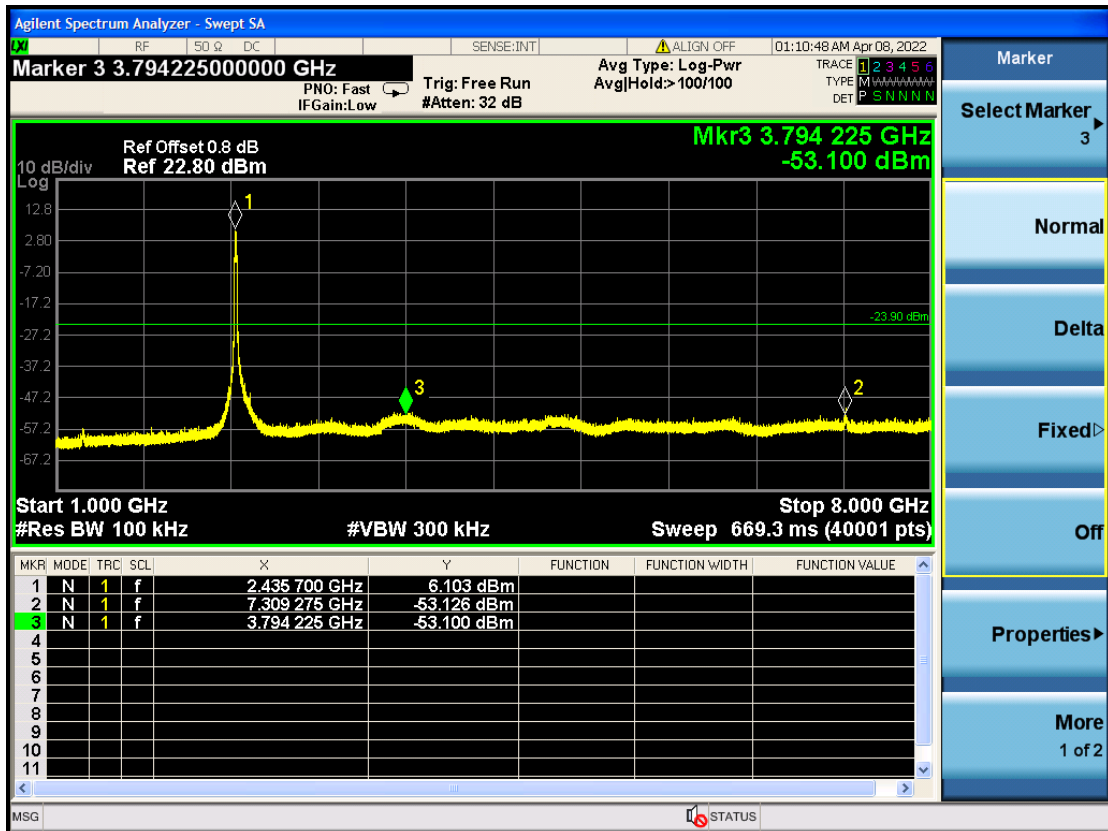
802.11nHT20 CH1

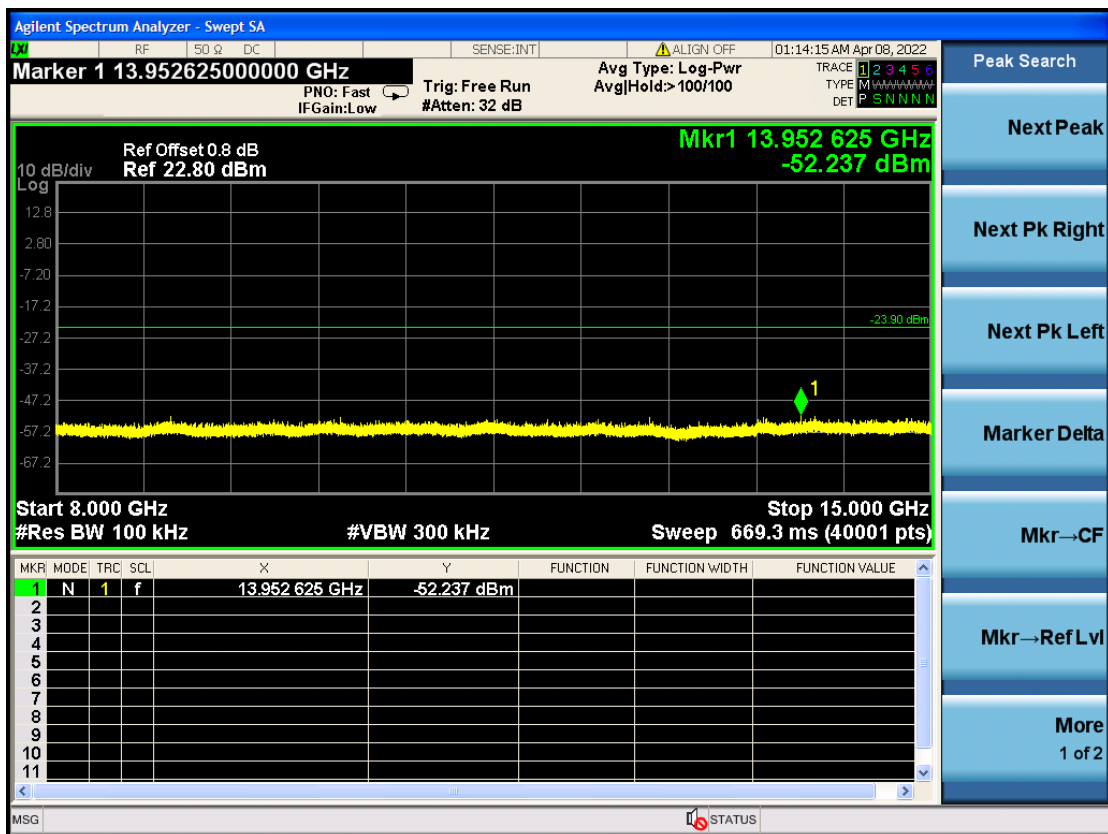
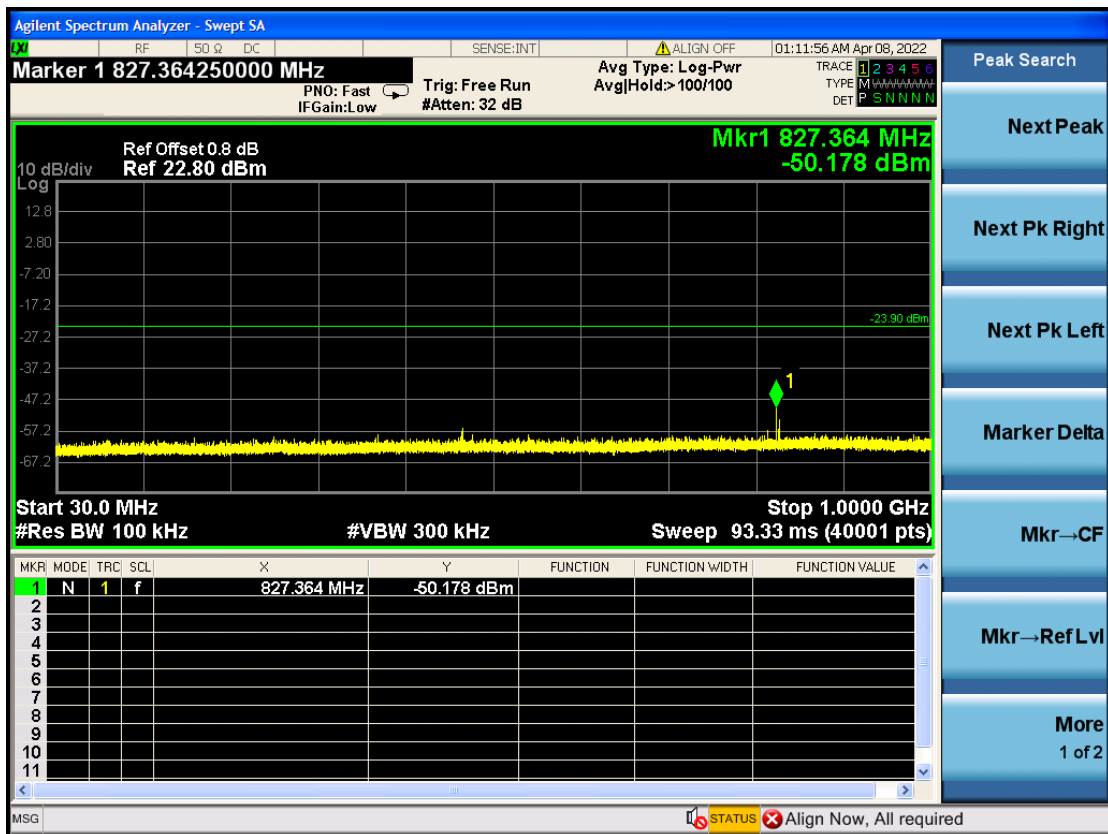


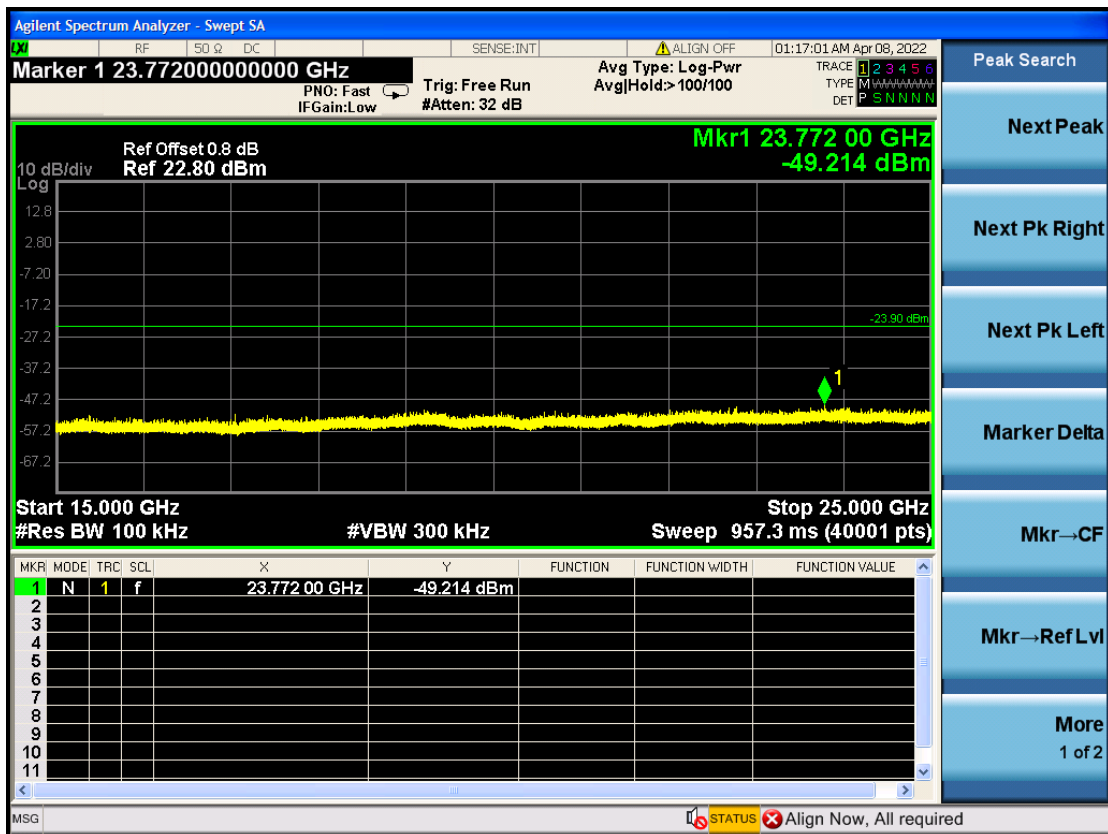




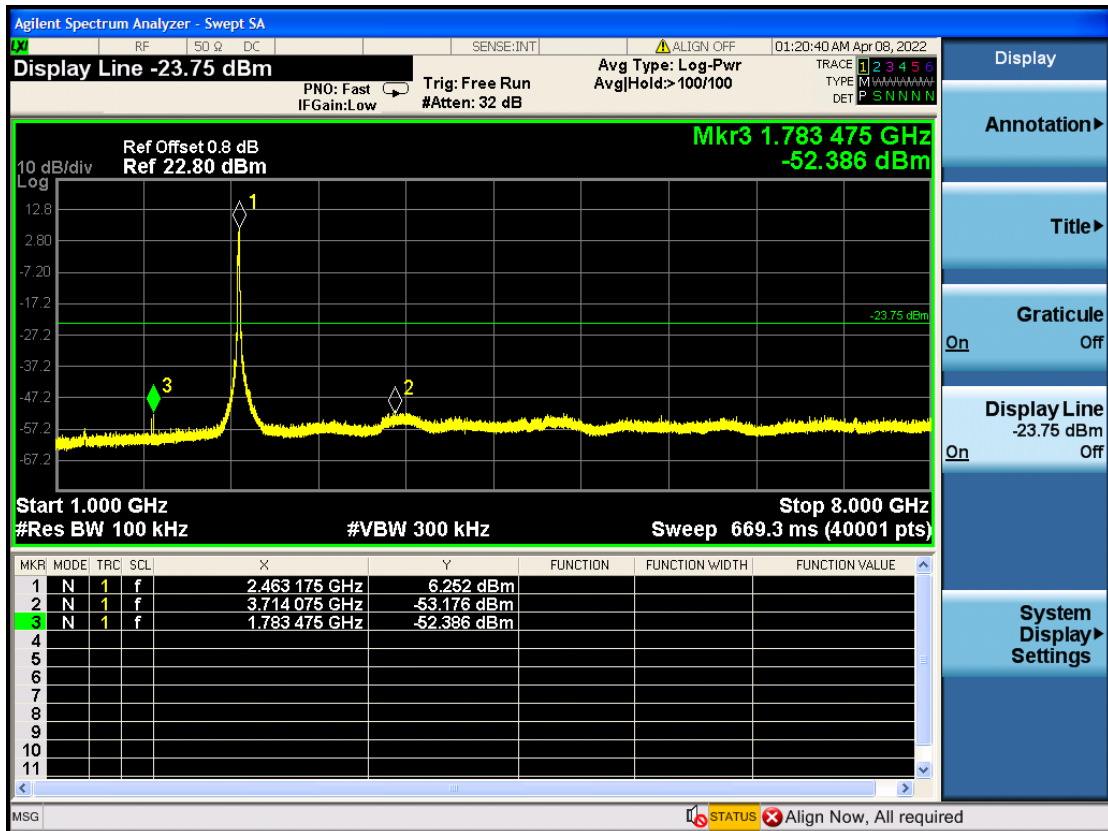
802.11nHT20 CH6

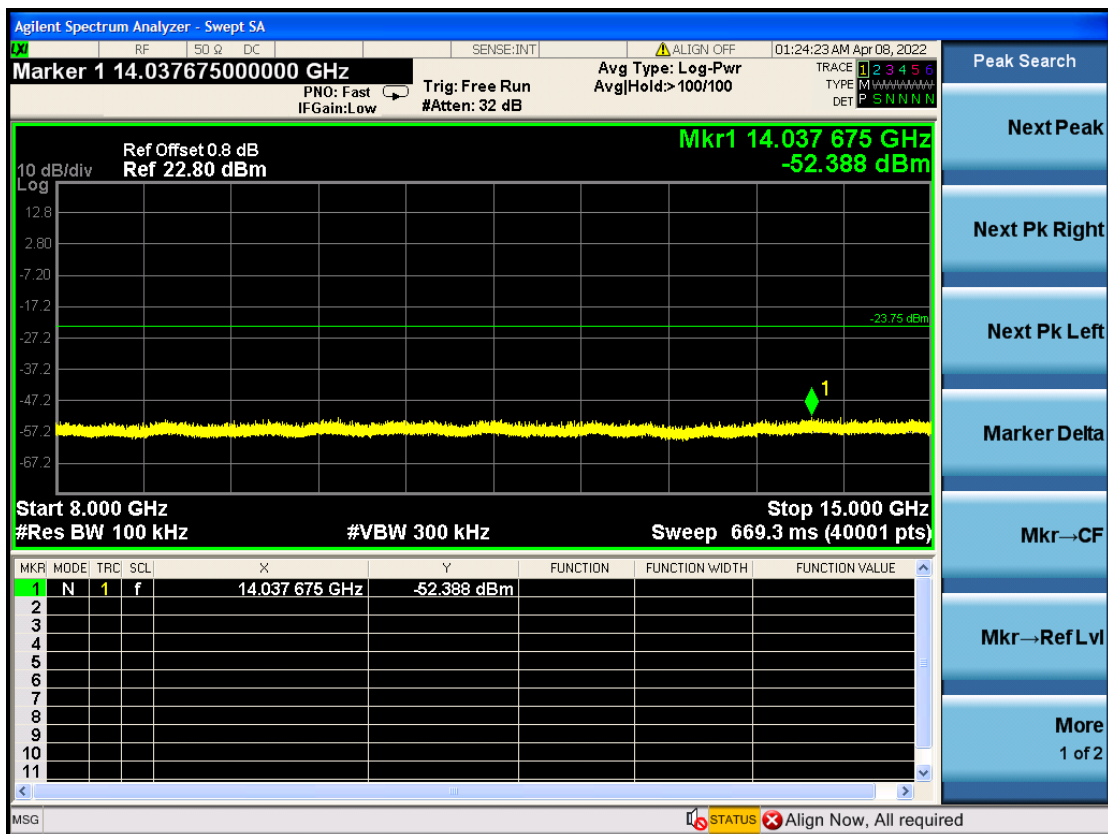
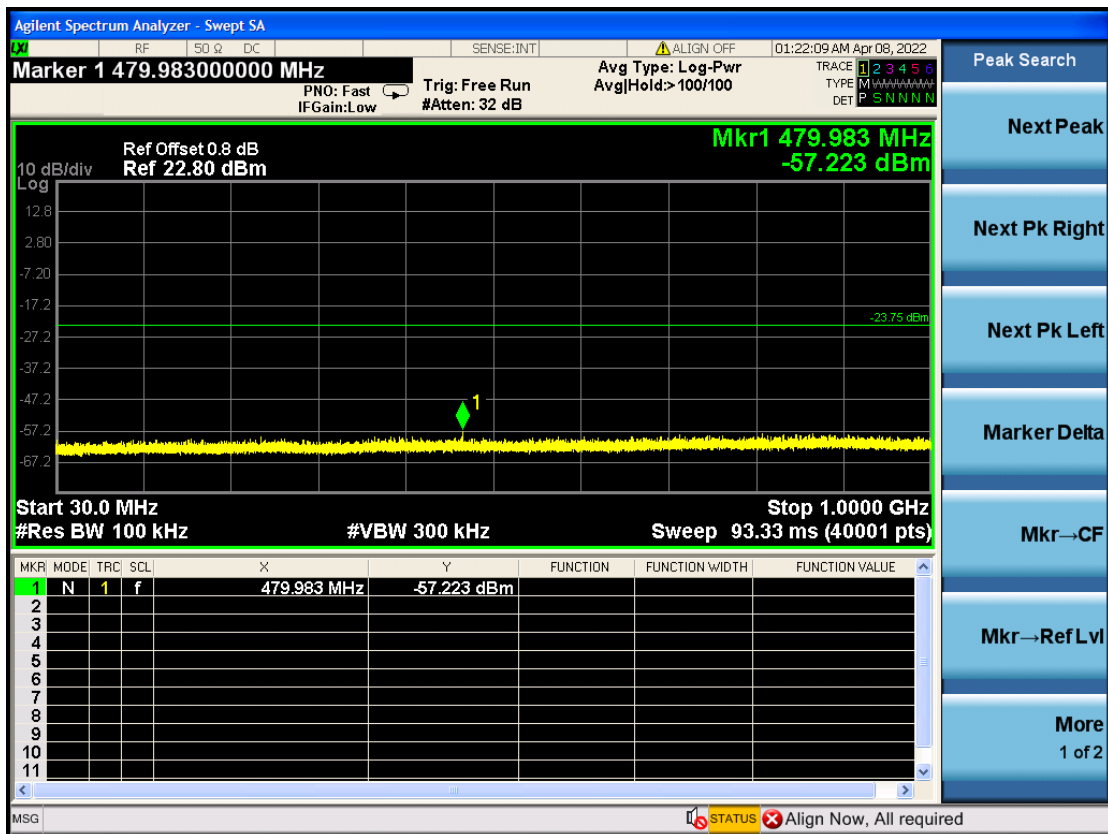


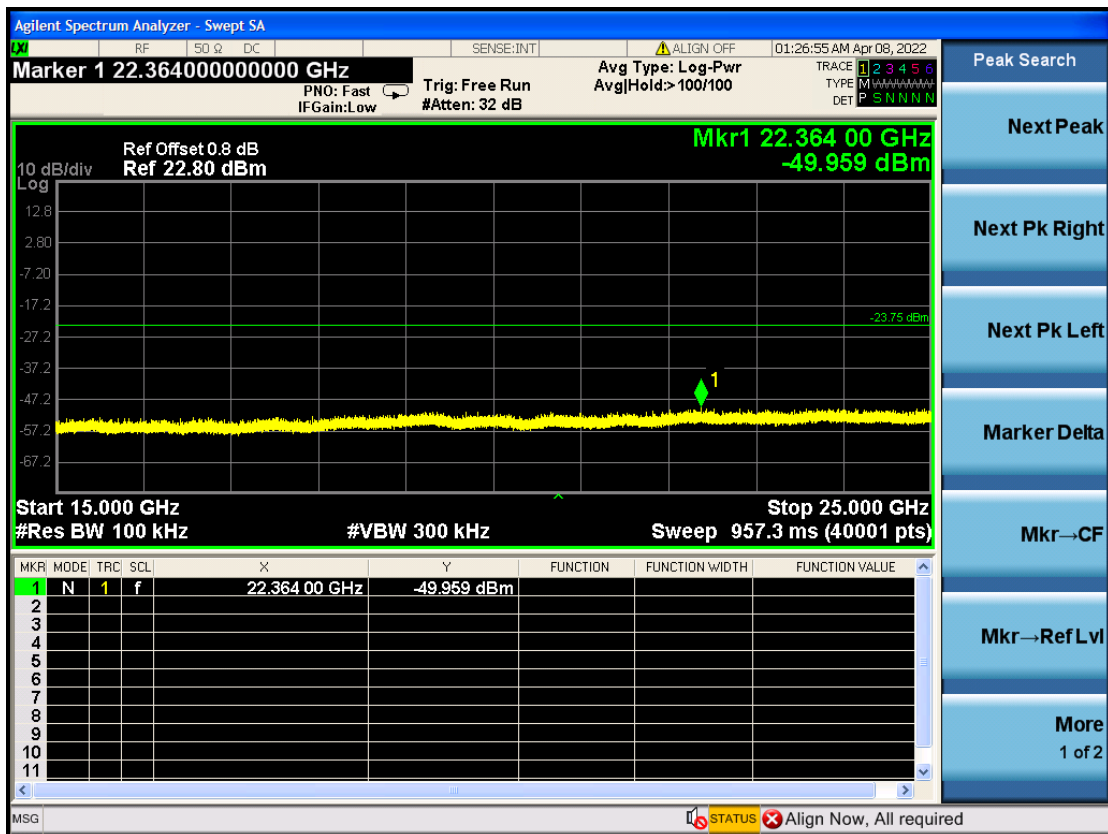




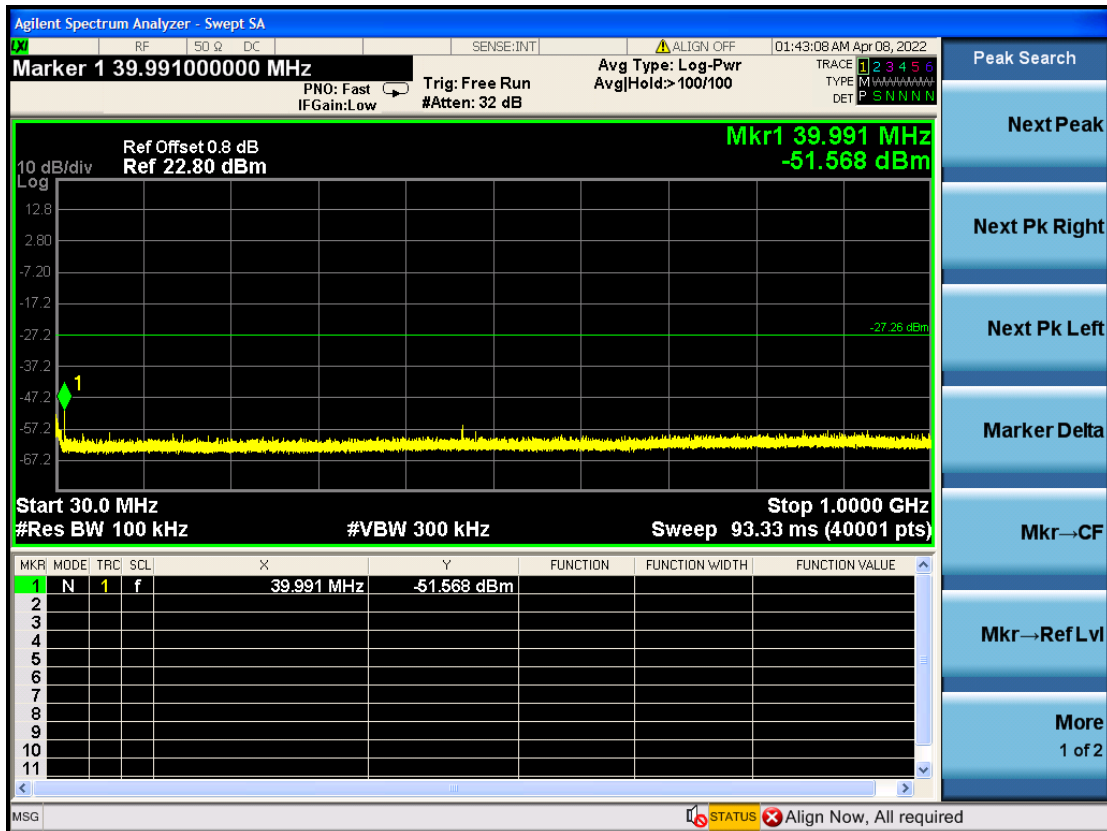
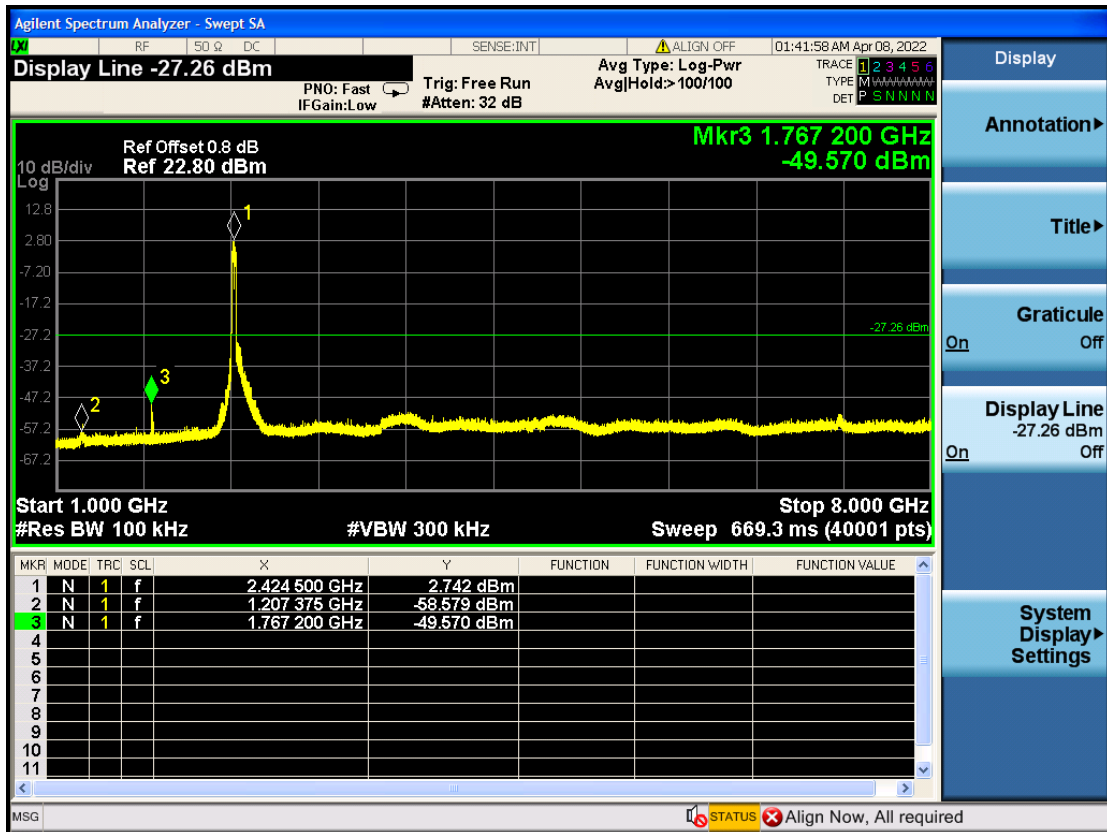
802.11nHT20 CH11

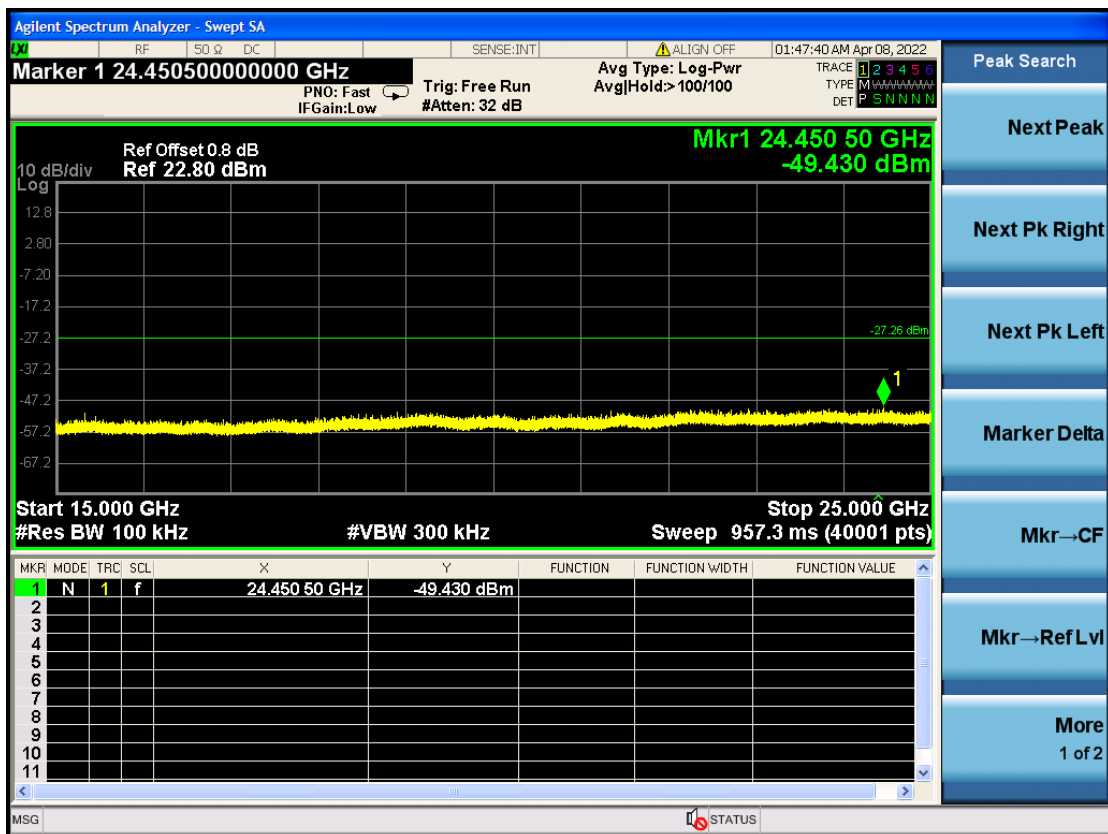


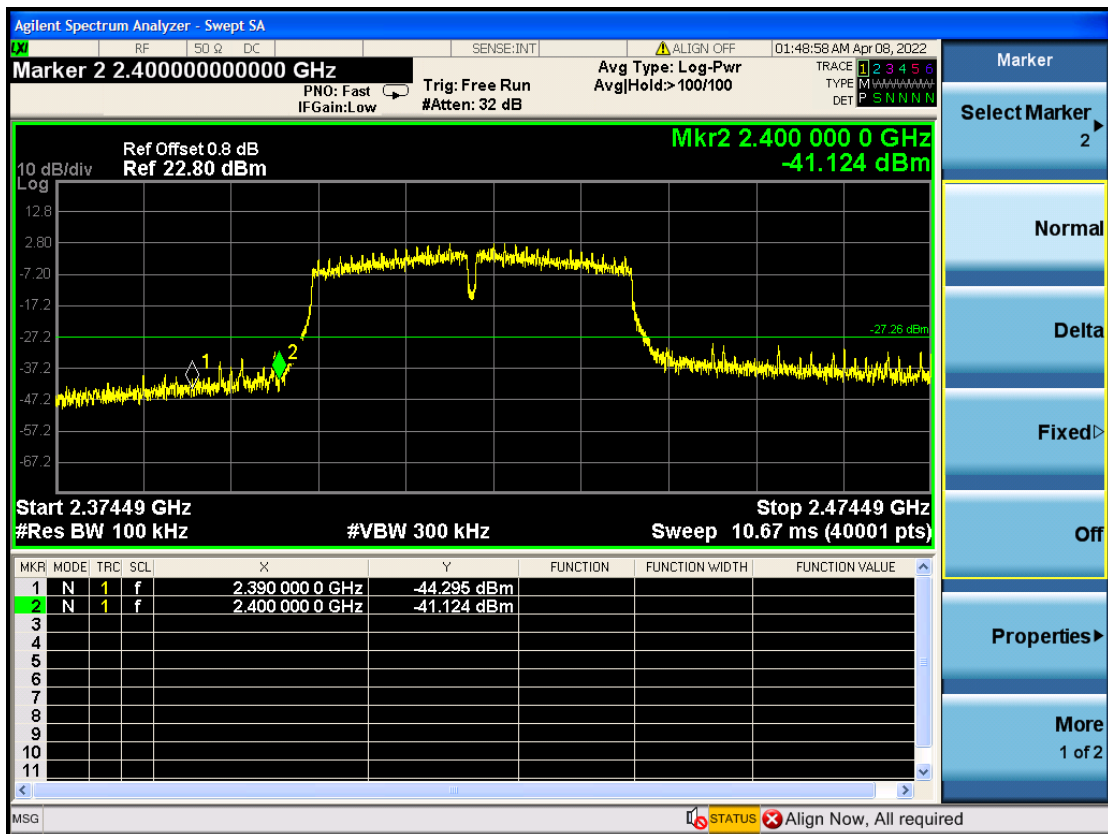




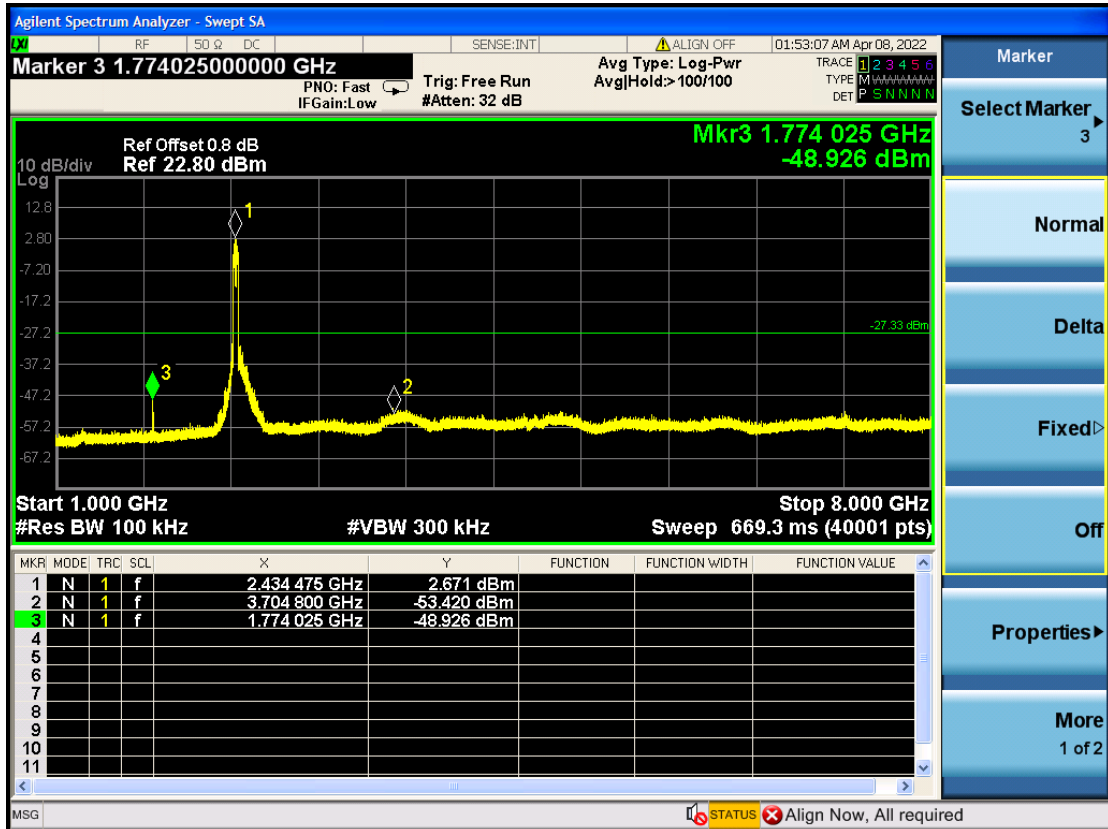
802.11nHT40 CH3

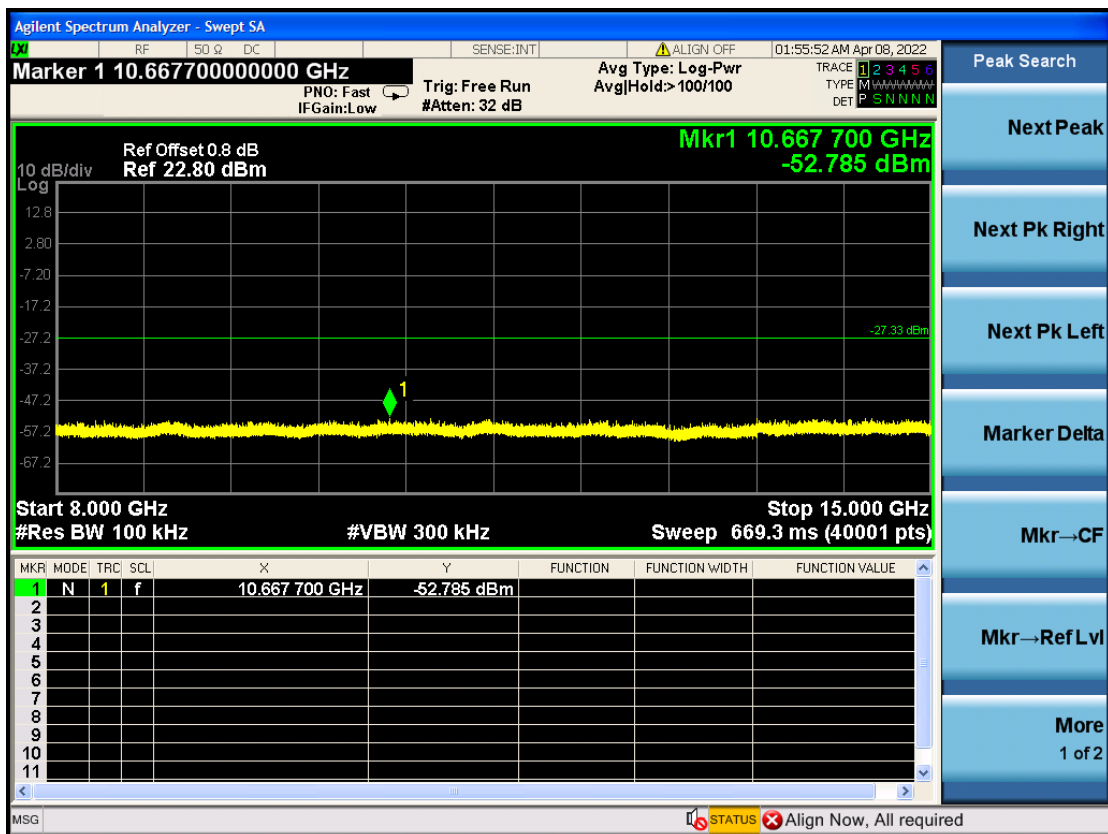
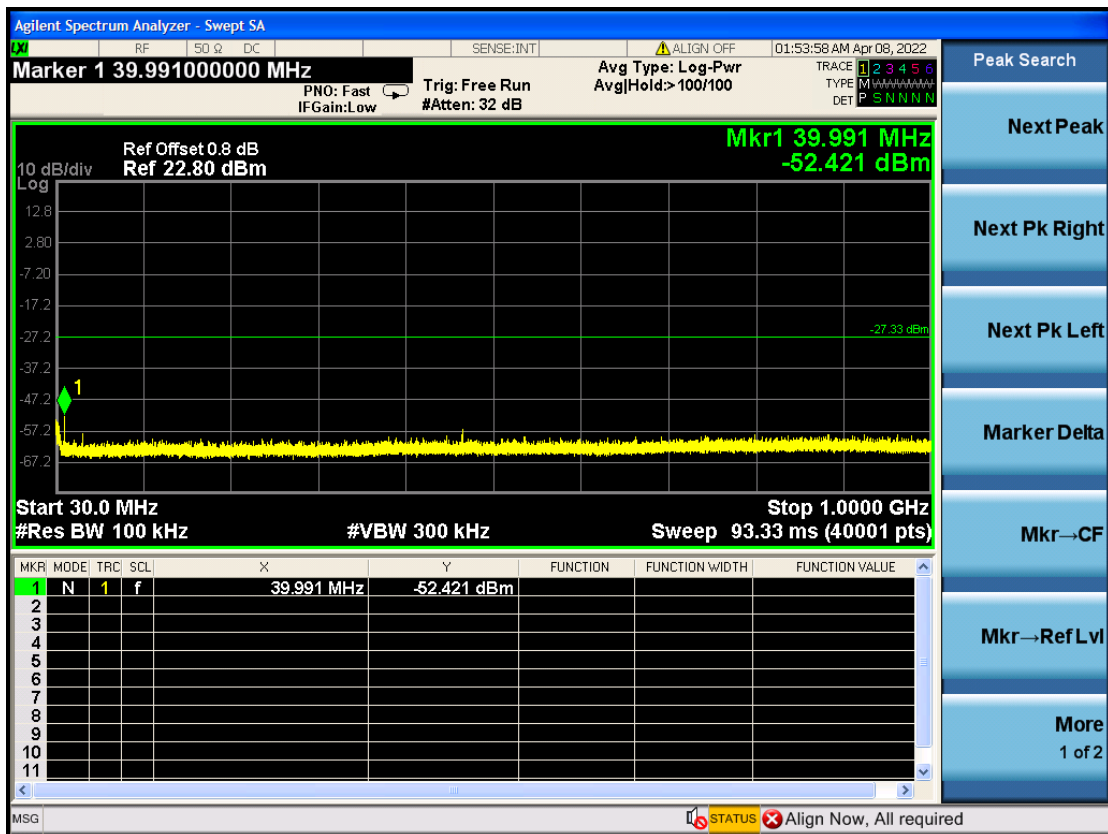


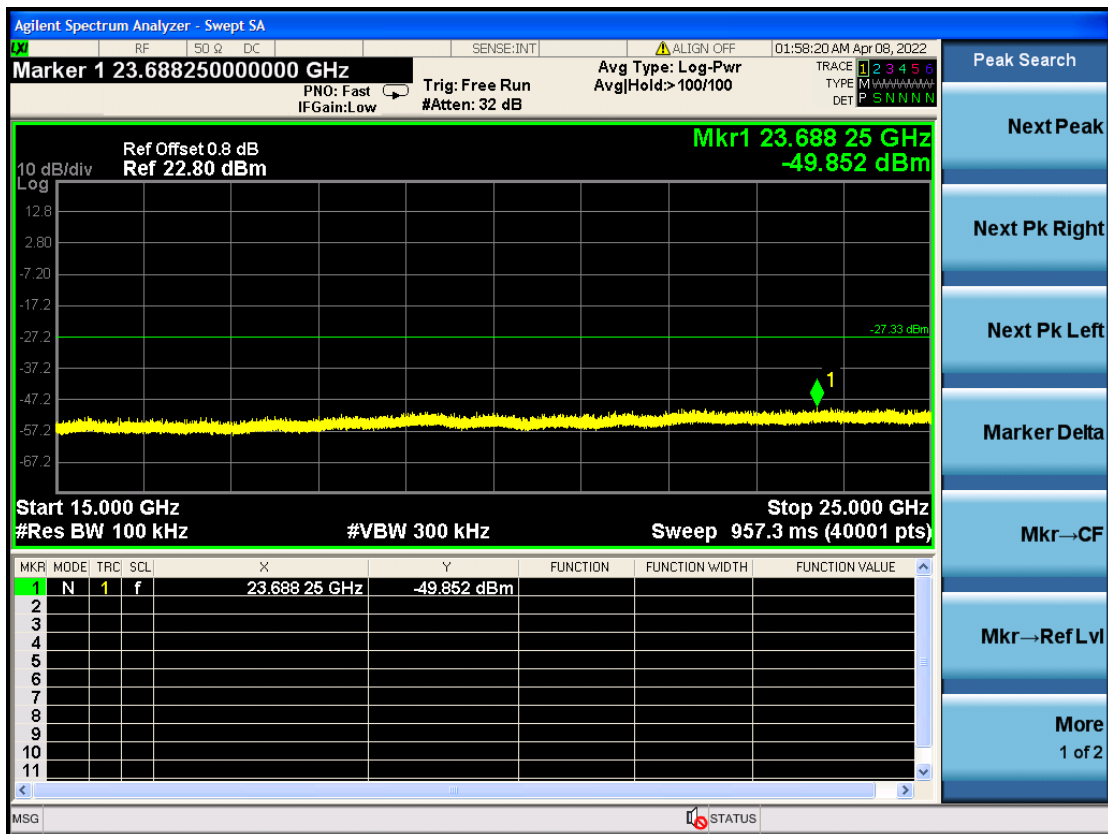




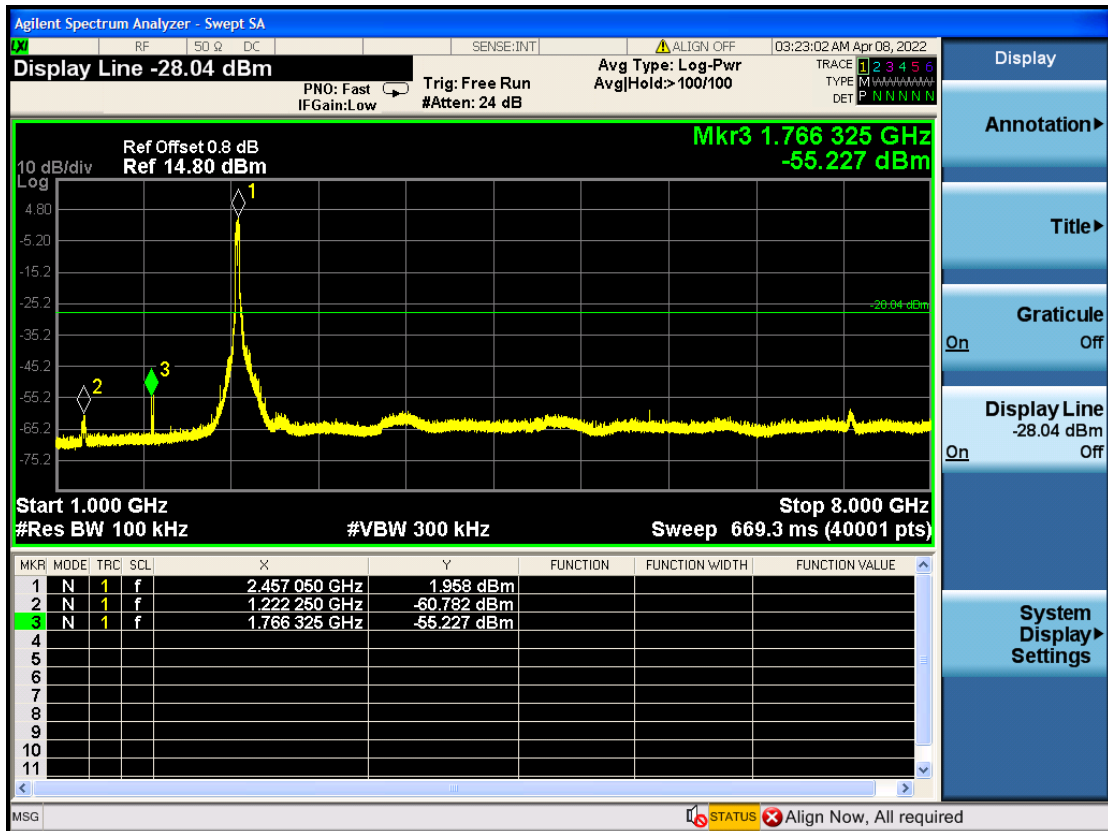
802.11nHT40 CH6

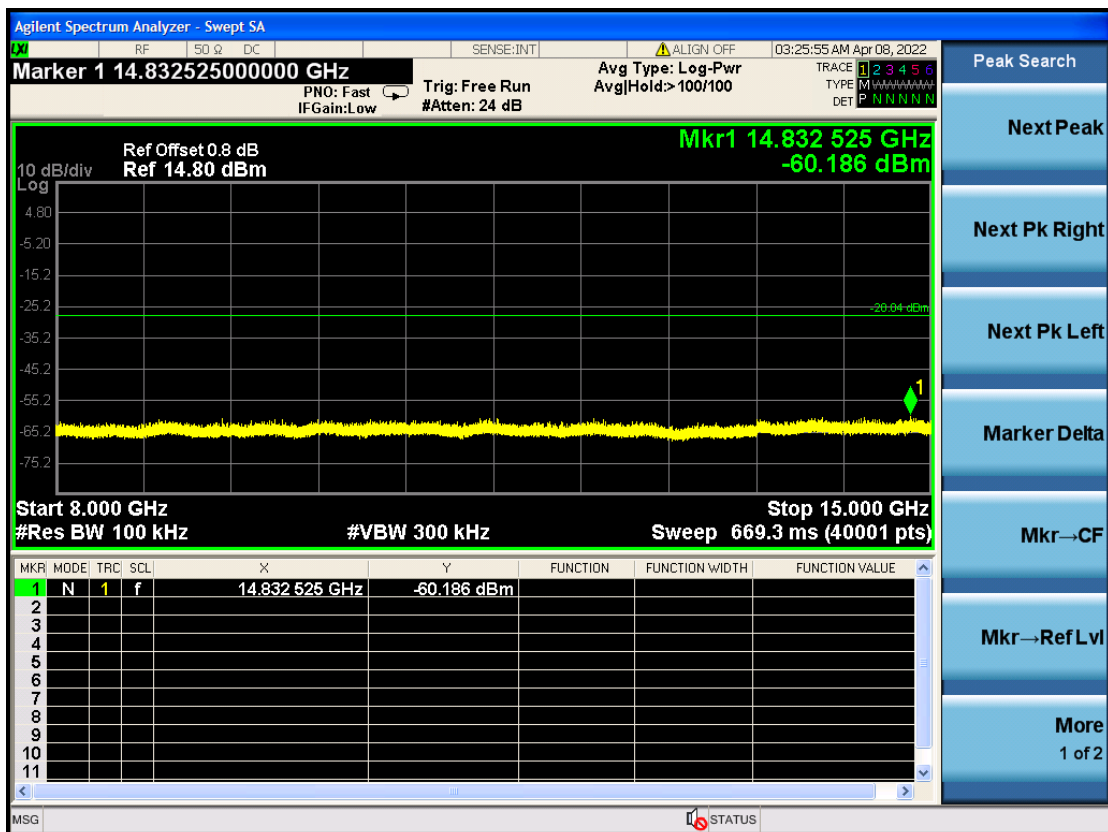
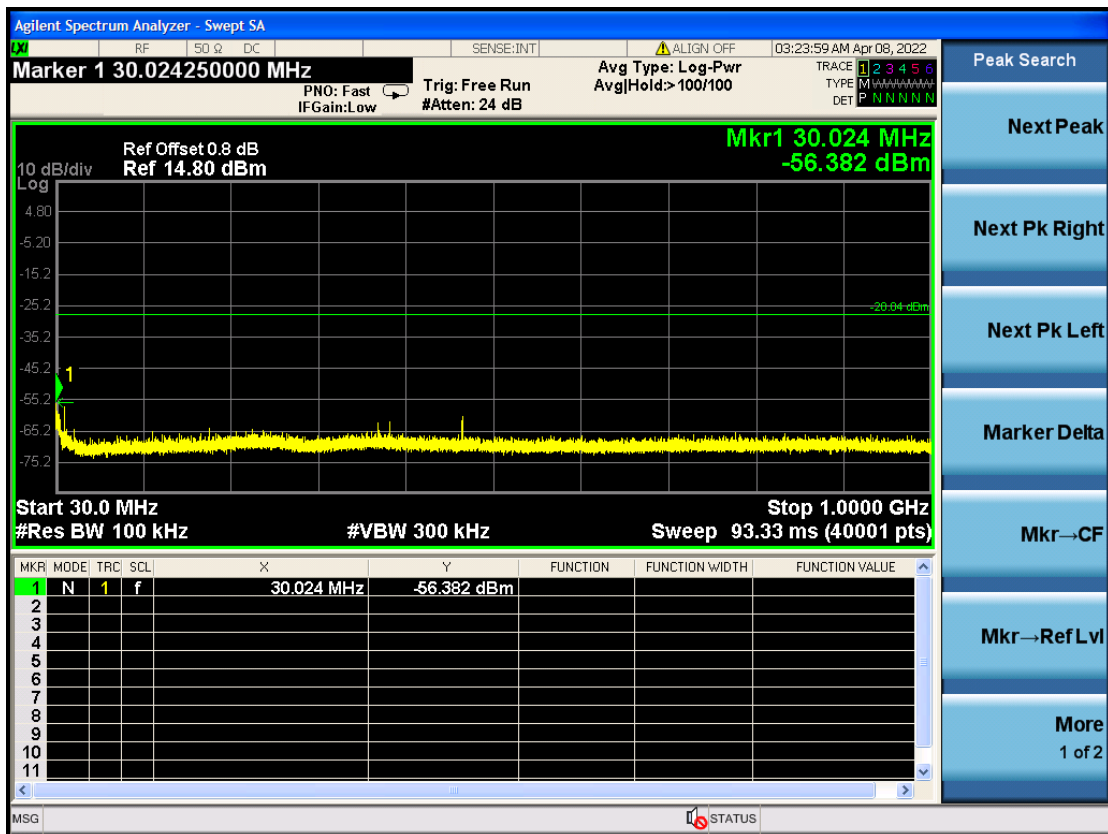


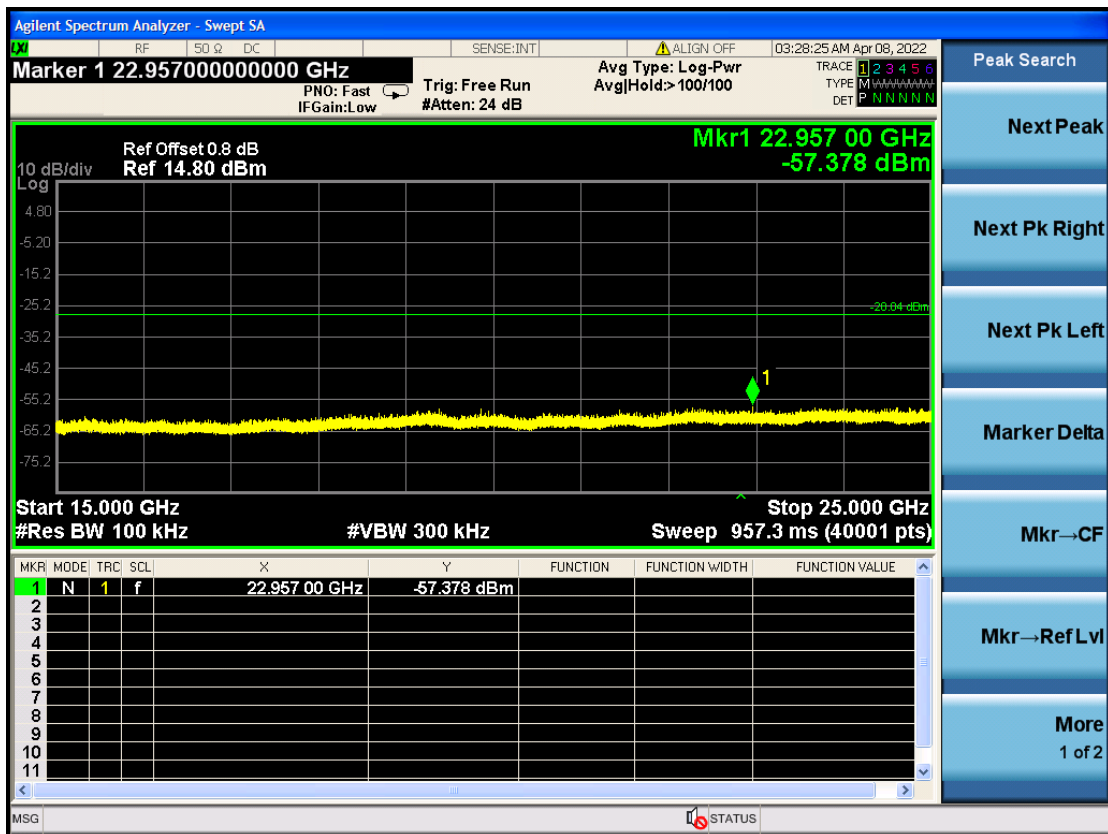




802.11nHT40 CH9







10.DEVIATION TO TEST SPECIFICATIONS

【NONE】