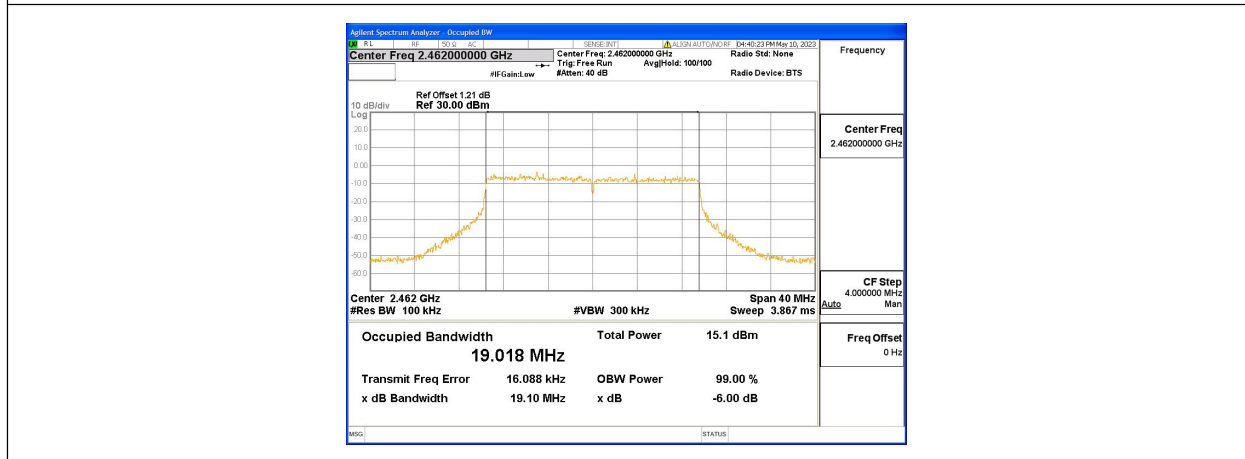
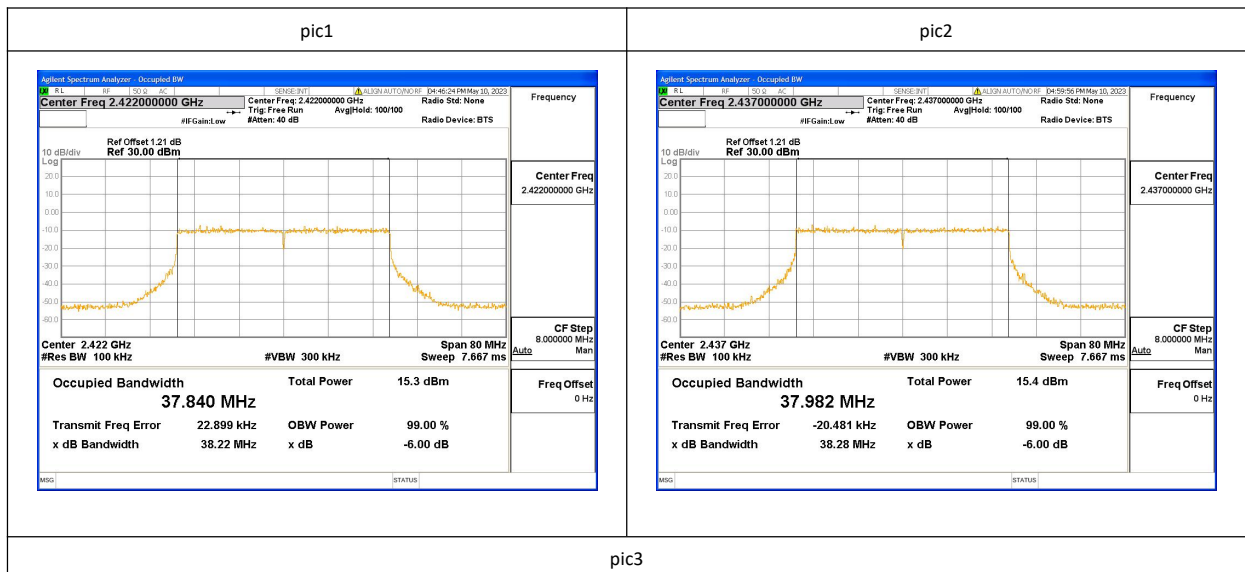


pic3

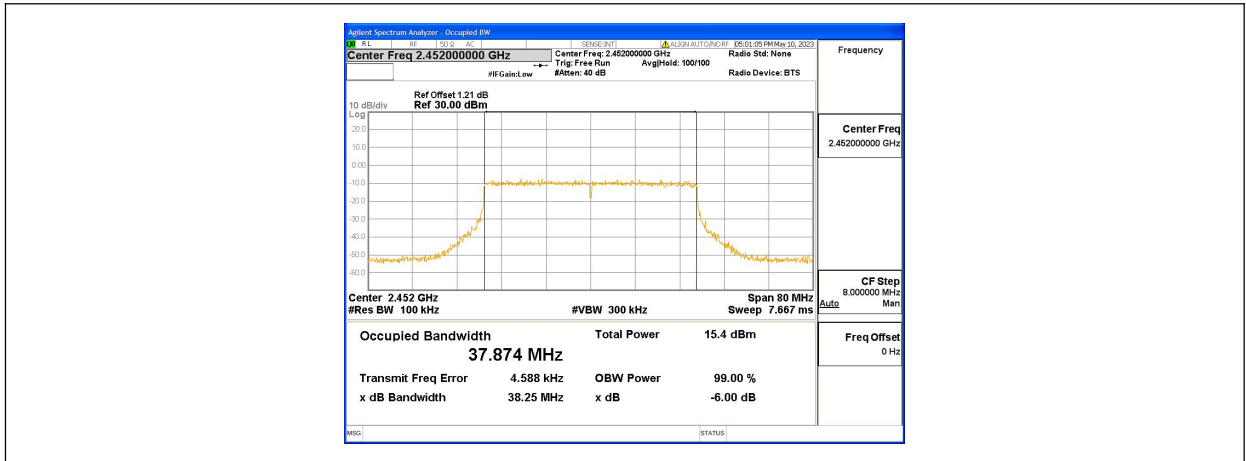


11ax-HE40:





Report No.: I22W00019-WiFi RF-2.4GHz-Rev4



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6.5. Band Edges-Conducted

SpeciPications:	FCC 47 CFR Part 15.247(d)
DUT Serial Number:	S1
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

Standard	Limit
FCC 47 CFR Part15.247 (d)	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 § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Note: Directional gain according to section 3.2 of this report

Band	802.11b/g Directional gain (dBi)	802.11n/ax Directional gain (dBi)
2.4G	2.97	5.98

Measurement Uncertainty:

Frequency Range	Uncertainty
30MHz ≤ f ≤ 26GHz	±1.54

Test Procedure

This measurement is according to ANSI C63.10 clause 11.11.

The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.

Enable EUT transmitter maximum power continuously.

Reference level measurement

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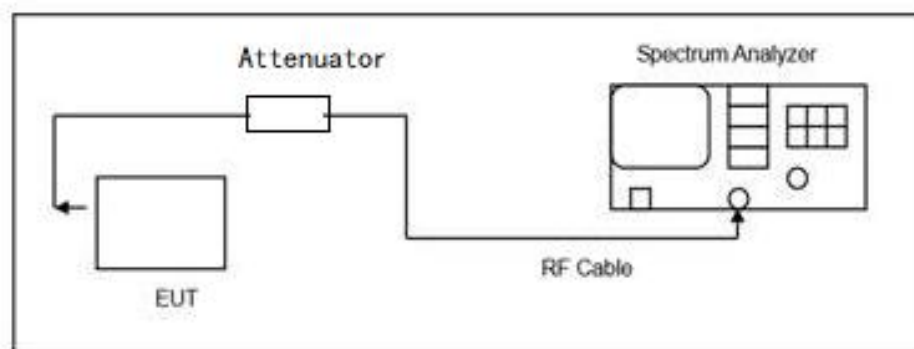
- 1.Set instrument center frequency to DTS channel center frequency.
- 2.Set the span to ≥ 1.5 times the DTS bandwidth.
- 3.Set the RBW = 100 kHz.
- 4.Set the VBW $\geq [3 \times \text{RBW}]$.
- 5.Detector = peak.
- 6.Sweep time = auto couple.
- 7.Trace mode = max hold.
- 8.Allow trace to fully stabilize.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

Emission level measurement

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

Note: For 802.11n/ax Mode, the $10 \cdot \log(Nant)$ ($10 \cdot \log(2)=3.01\text{dB}$) had add the test data.

Test block diagram:



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**Report No.: I22W00019-WiFi RF-2.4GHz-Rev4****Test Result:****Chain.0**

Mode	Channel	Band Edge(dBm)		Conclusion
802.11b	1	Pic.1	-46.117	PASS
	11	Pic.2	-49.039	PASS

Mode	Channel	Band Edge(dBm)		Conclusion
802.11g	1	Pic.1	-49.889	PASS
	11	Pic.2	-48.758	PASS

Mode	Channel	BandEdge(dBm)		Band Edge(dBm)+10*log(Nant)	Conclusion
802.11n-HT20	1	Pic.1	-49.306	-46.296	PASS
	11	Pic.2	-48.877	-45.867	PASS

Mode	Channel	BandEdge(dBm)		Band Edge(dBm)+10*log(Nant)	Conclusion
802.11n-HT40	3	Pic.1	-48.904	-45.894	PASS
	9	Pic.2	-49.208	-46.198	PASS

Mode	Channel	BandEdge(dBm)		Band Edge(dBm)+10*log(Nant)	Conclusion
802.11ax-HE20	1	Pic.1	-49.750	-46.740	PASS
	11	Pic.2	-48.920	-45.910	PASS

Mode	Channel	BandEdge(dBm)		Band Edge(dBm)+10*log(Nant)	Conclusion
802.11ax-HE40	3	Pic.1	-49.453	-46.443	PASS
	9	Pic.2	-49.009	-45.999	PASS

Chain.1

Mode	Channel	BandEdge(dBm)		Conclusion
802.11b	1	Pic.1	-46.286	PASS
	11	Pic.2	-48.695	PASS

Mode	Channel	BandEdge(dBm)		Conclusion
802.11g	1	Pic.1	-49.851	PASS
	11	Pic.2	-49.504	PASS

Mode	Channel	BandEdge(dBm)		Band Edge(dBm)+10*log(Nant)	Conclusion
802.11n-HT20	1	Pic.1	-49.214	-46.204	PASS

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	11	Pic.2	-48.653	-45.643	PASS
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Mode	Channel	BandEdge(dBm)		Band Edge(dBm)+10*log(Nant)	Conclusion
802.11n-HT40	3	Pic.1	-49.228	-46.218	PASS
	9	Pic.2	-49.544	-46.534	PASS

Mode	Channel	BandEdge(dBm)		Band Edge(dBm)+10*log(Nant)	Conclusion
802.11ax-HE20	1	Pic.1	-50.727	-47.717	PASS
	11	Pic.2	-49.612	-46.602	PASS

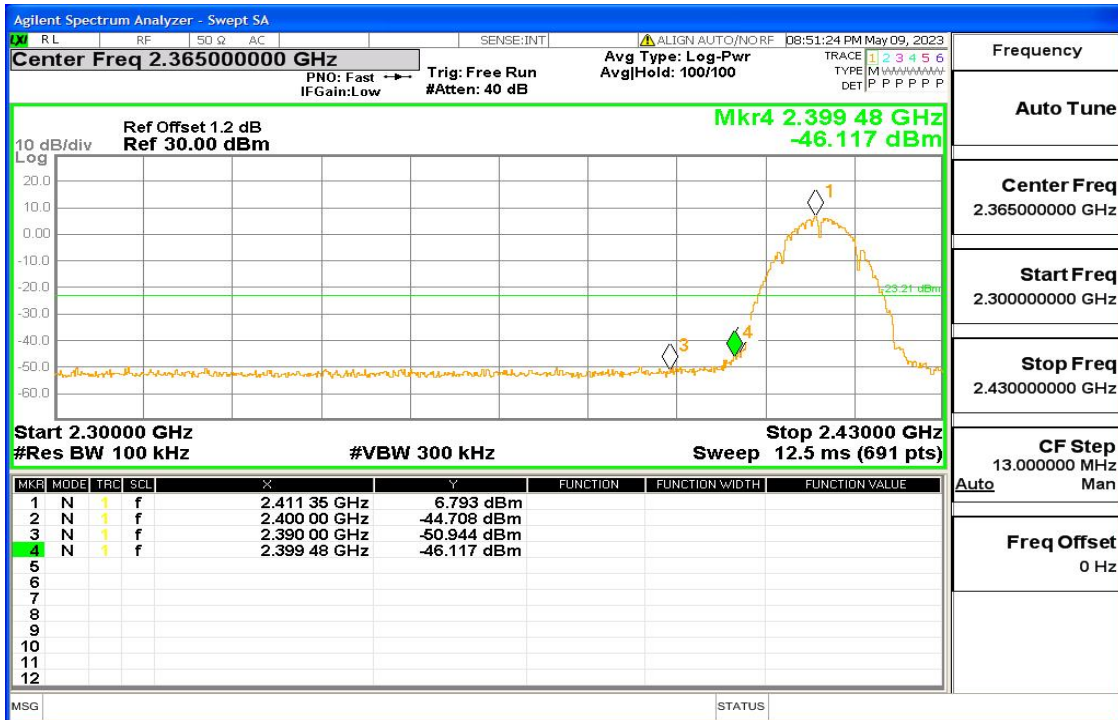
Mode	Channel	BandEdge(dBm)		Band Edge(dBm)+10*log(Nant)	Conclusion
802.11ax-HE4 0	3	Pic.1	-50.033	-47.023	PASS
	9	Pic.2	-49.181	-46.171	PASS

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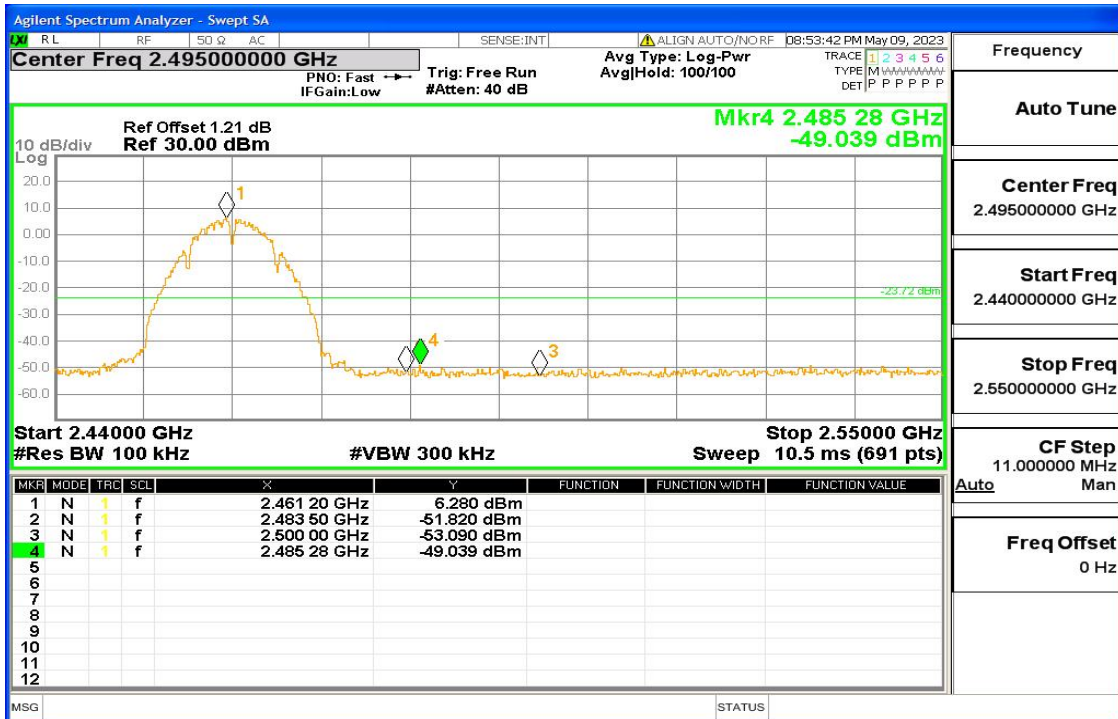
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Test Picture as below:

Chain.0



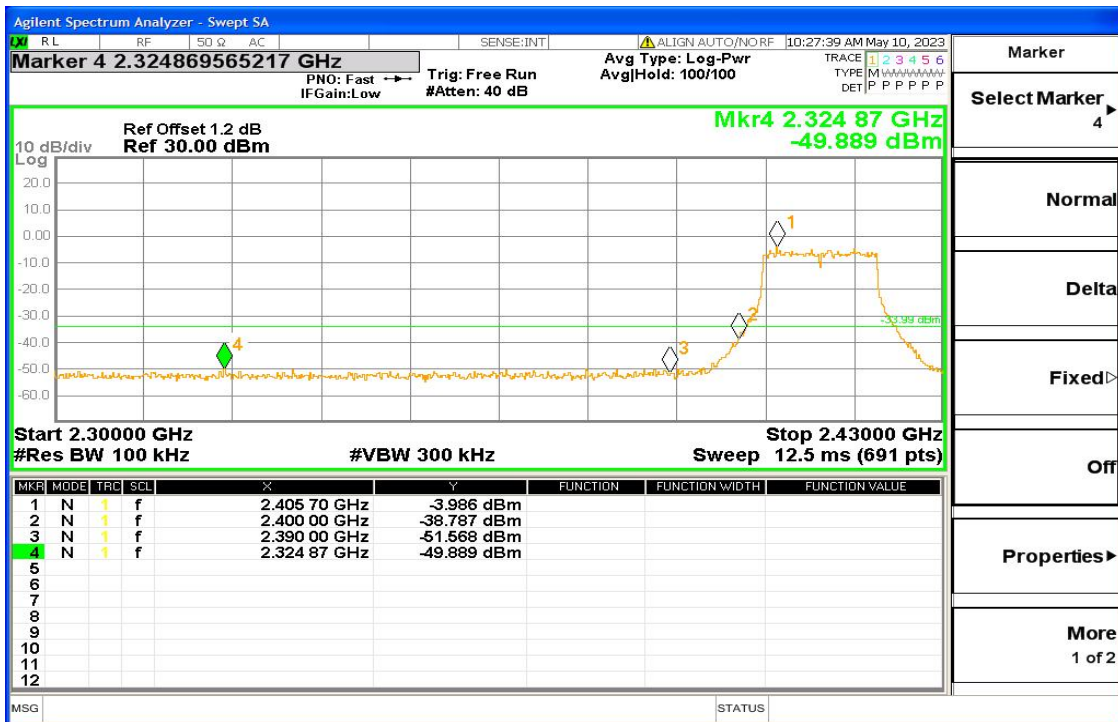
11b Fig1



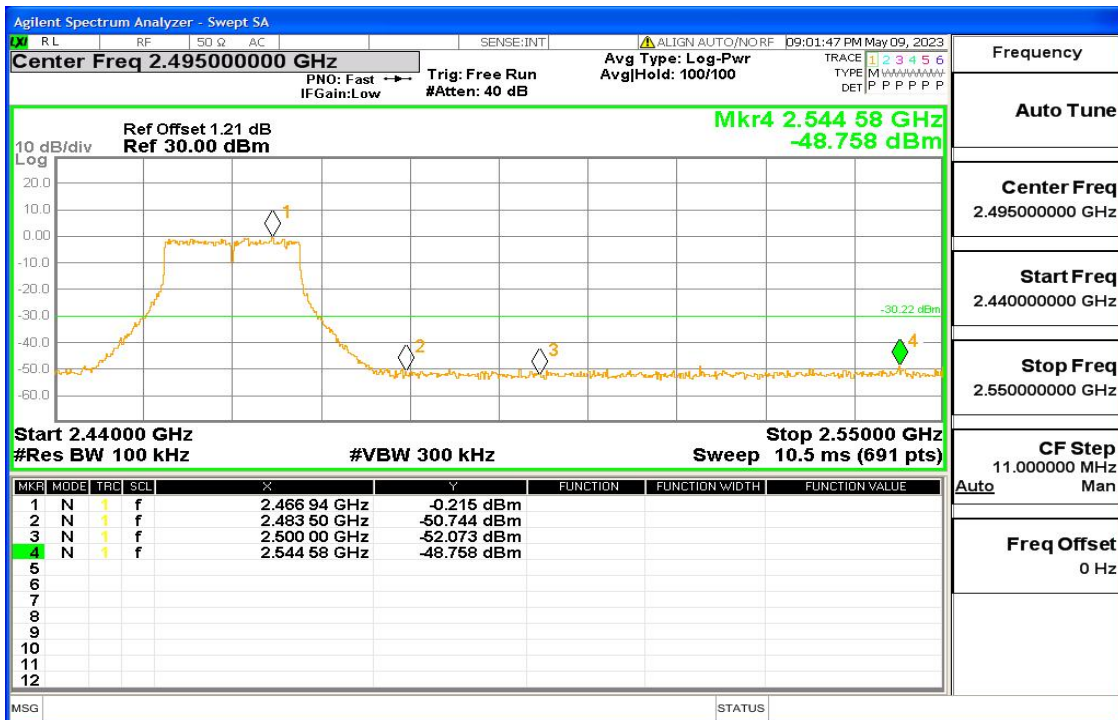
11b Fig2

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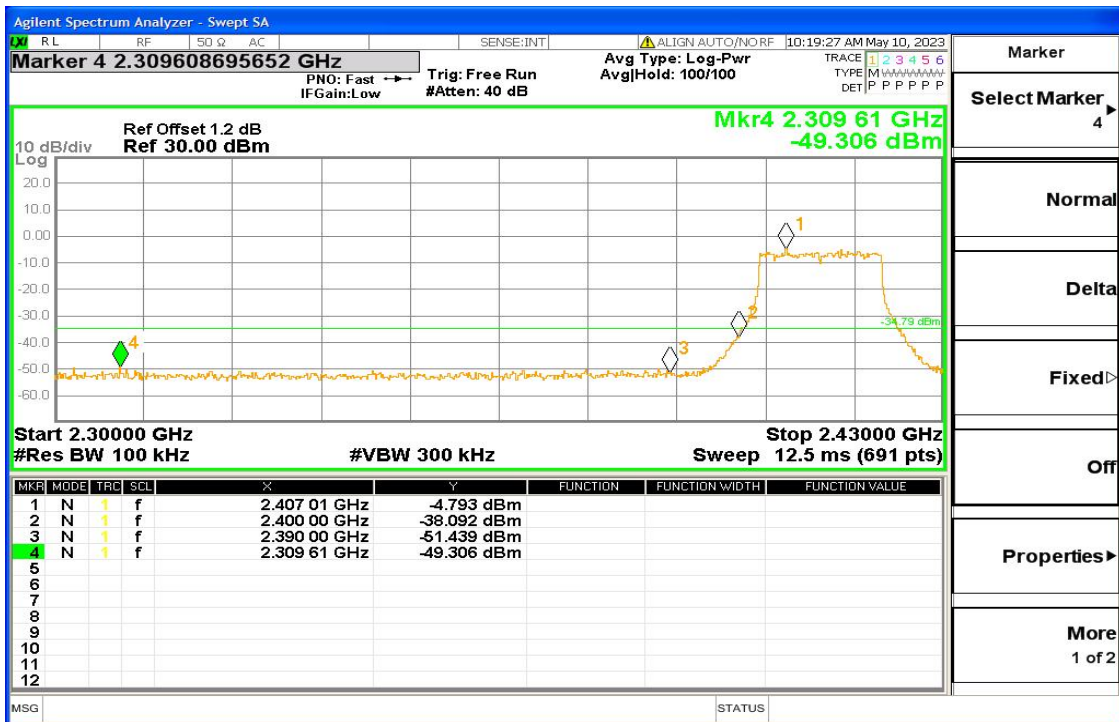
11g Fig1



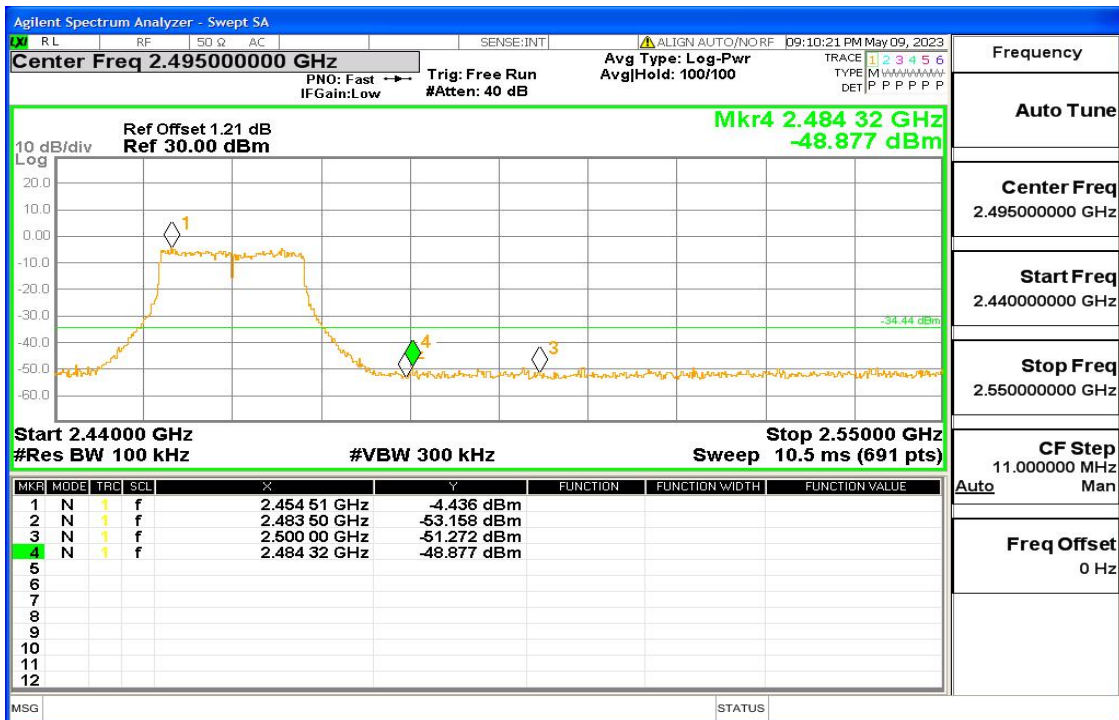
11g Fig2

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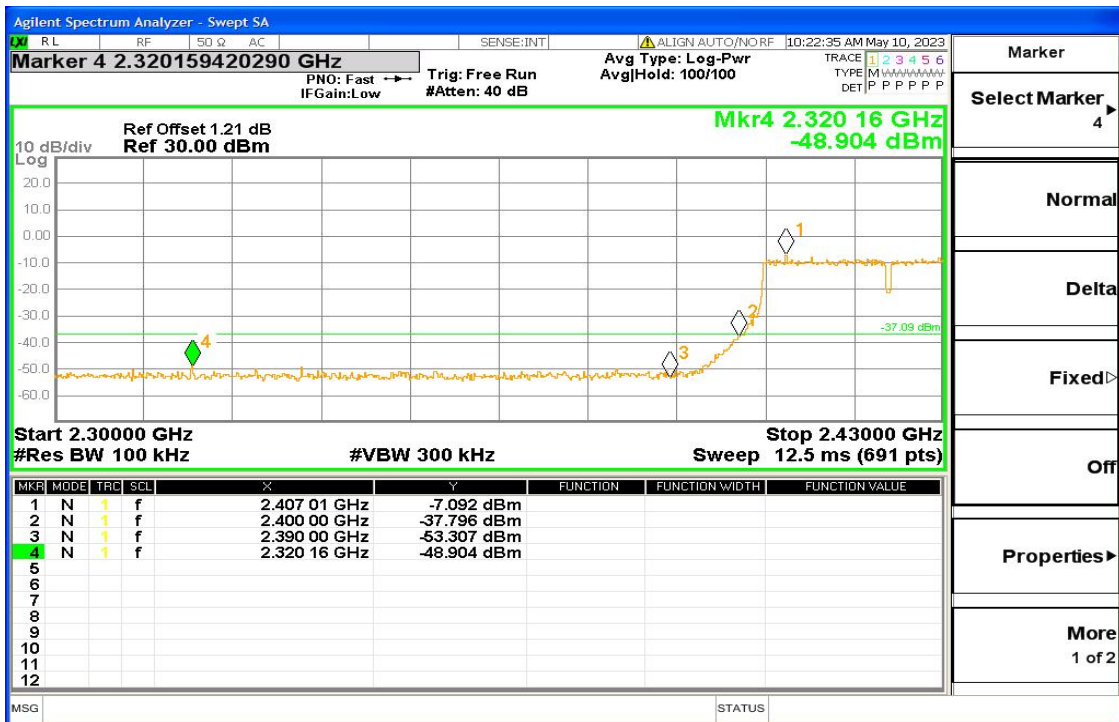
11n-HT20 Fig1



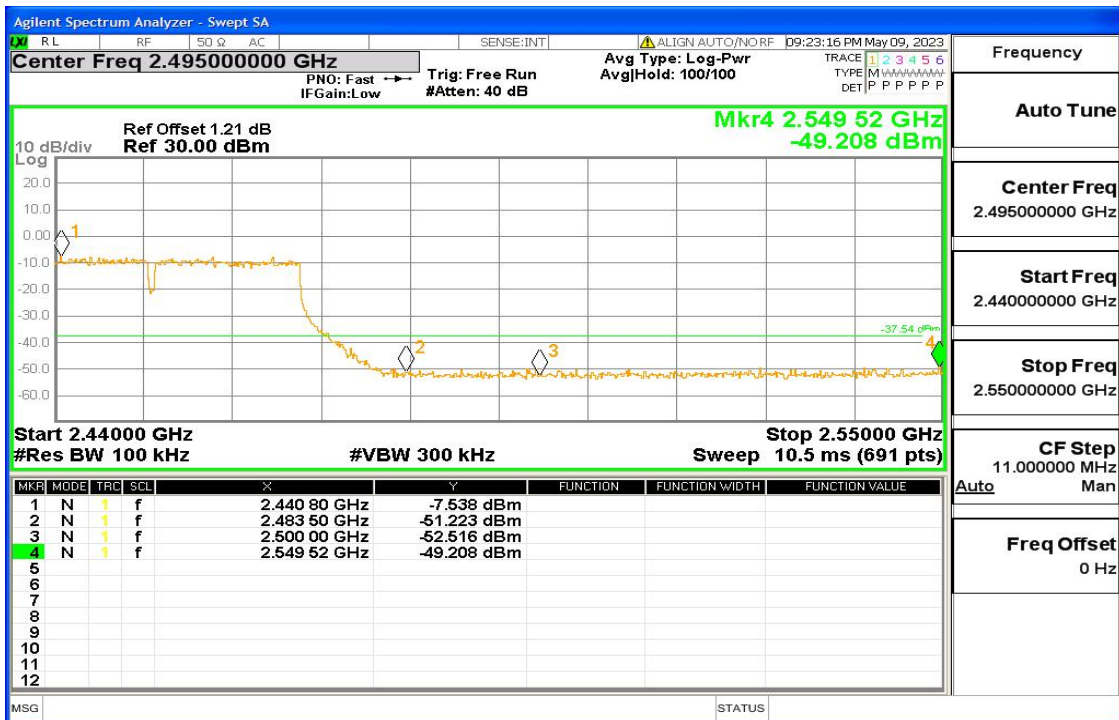
11n-HT20 Fig2

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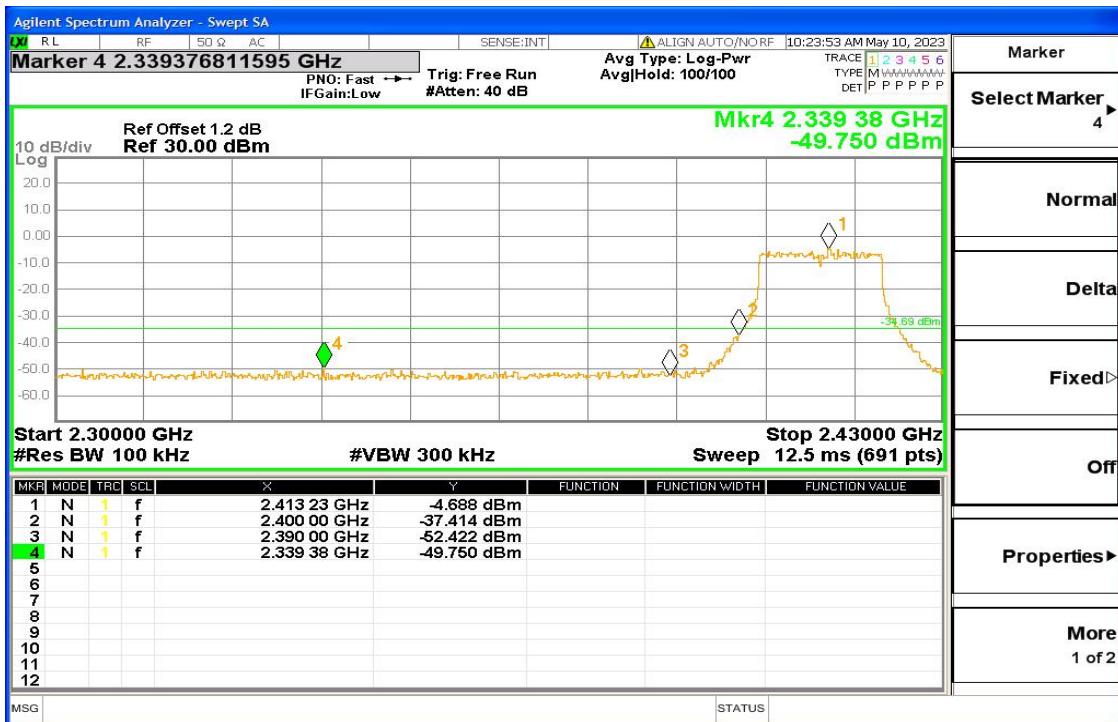
11n-HT40 Fig1



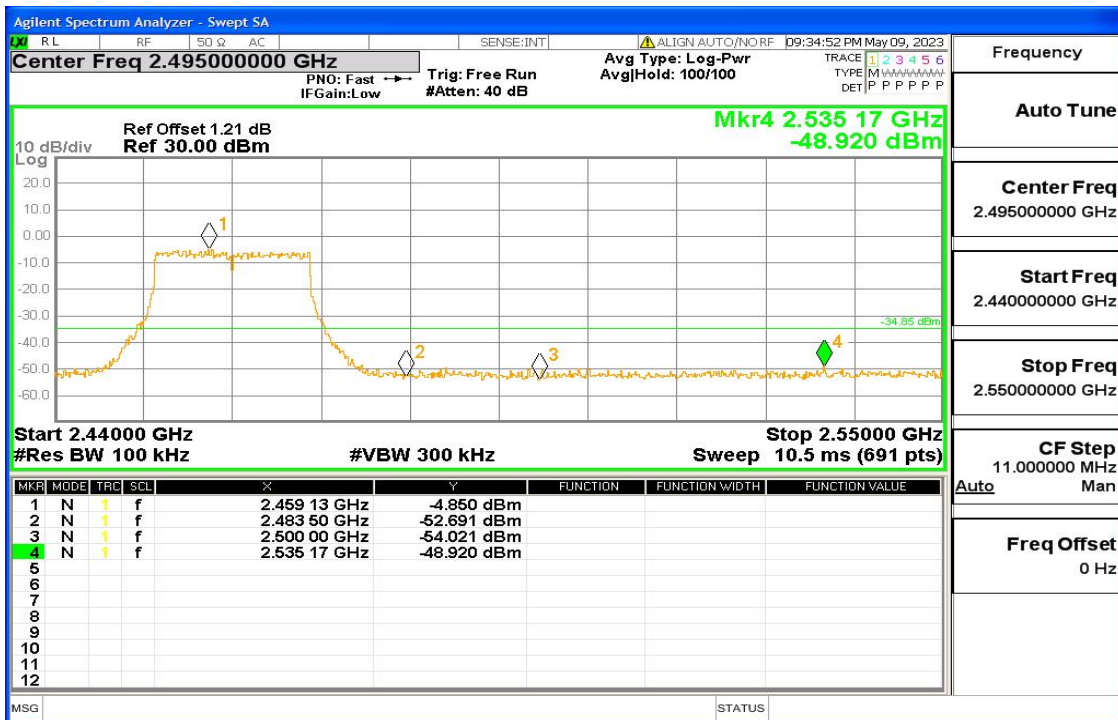
11n-HT40 Fig2

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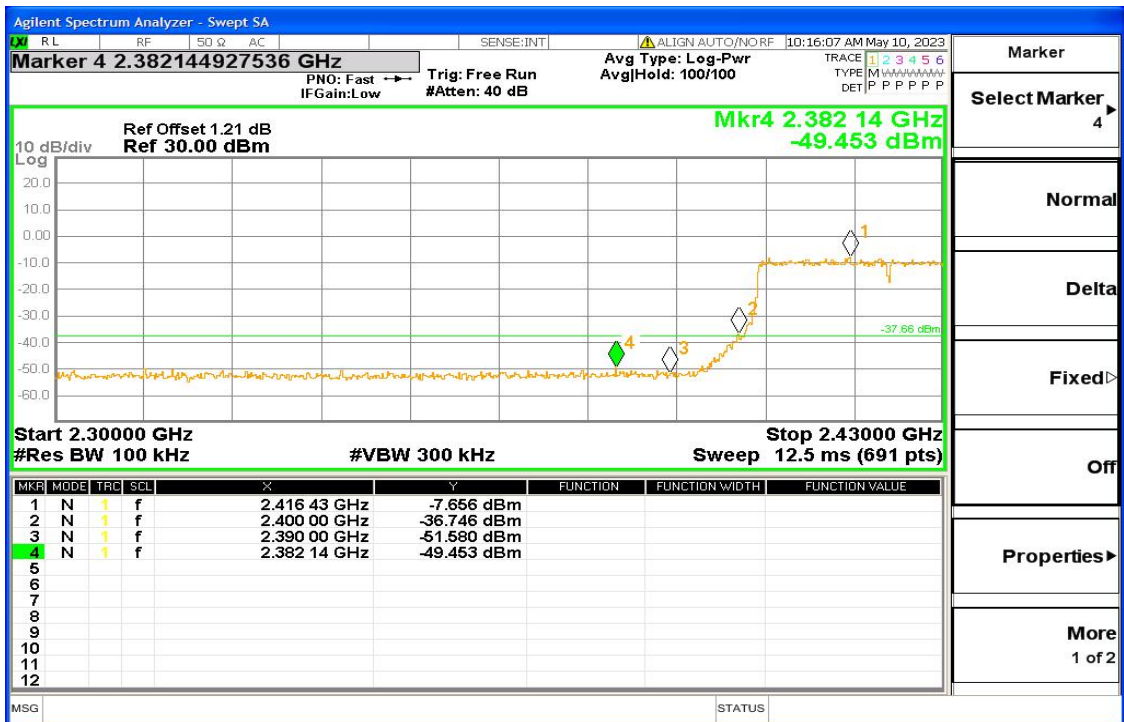
11ax-HE20 Fig1



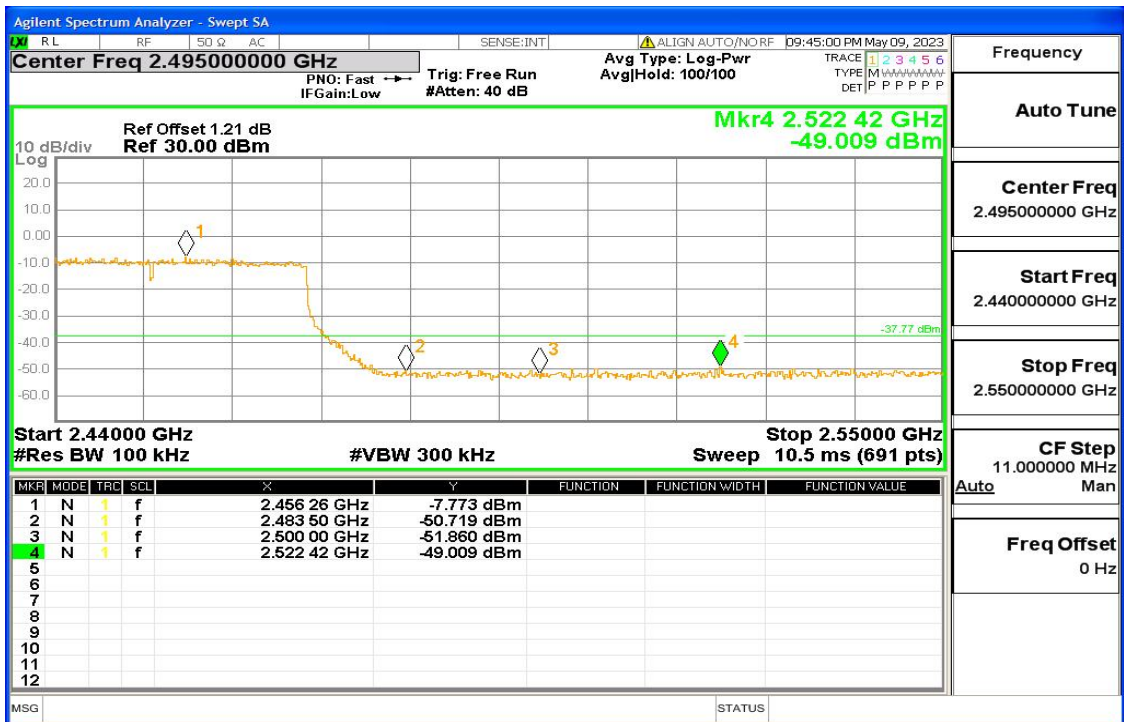
11ax-HE20 Fig2

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11ax-HE40 Fig1

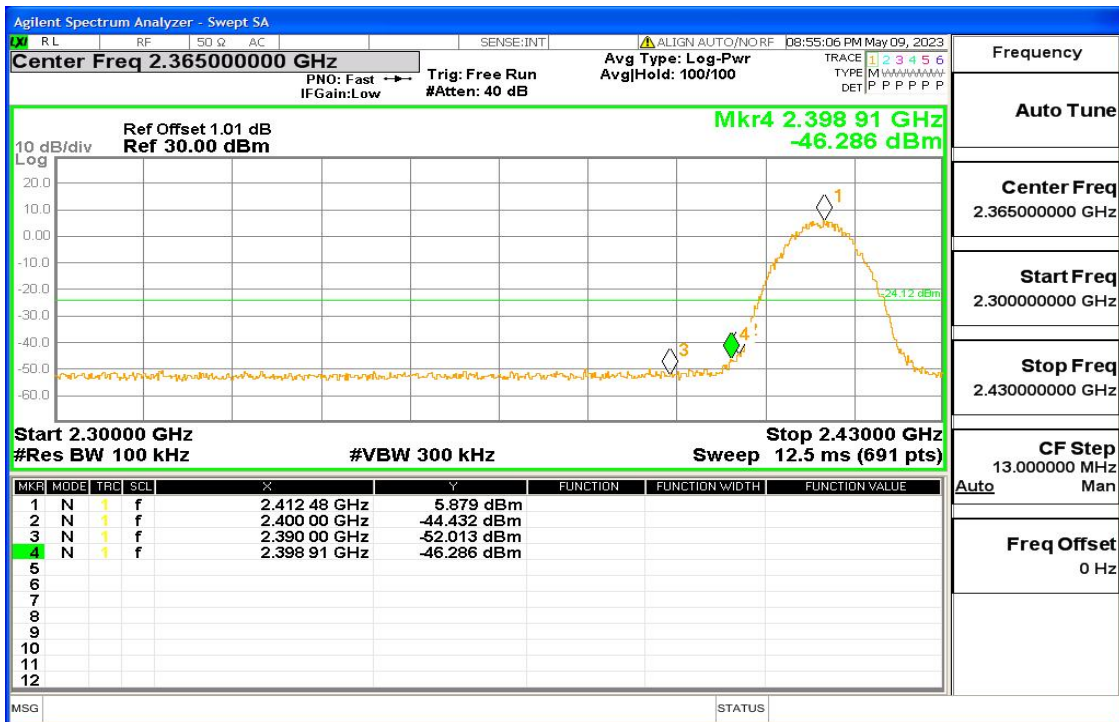


11ax-HE40 Fig2

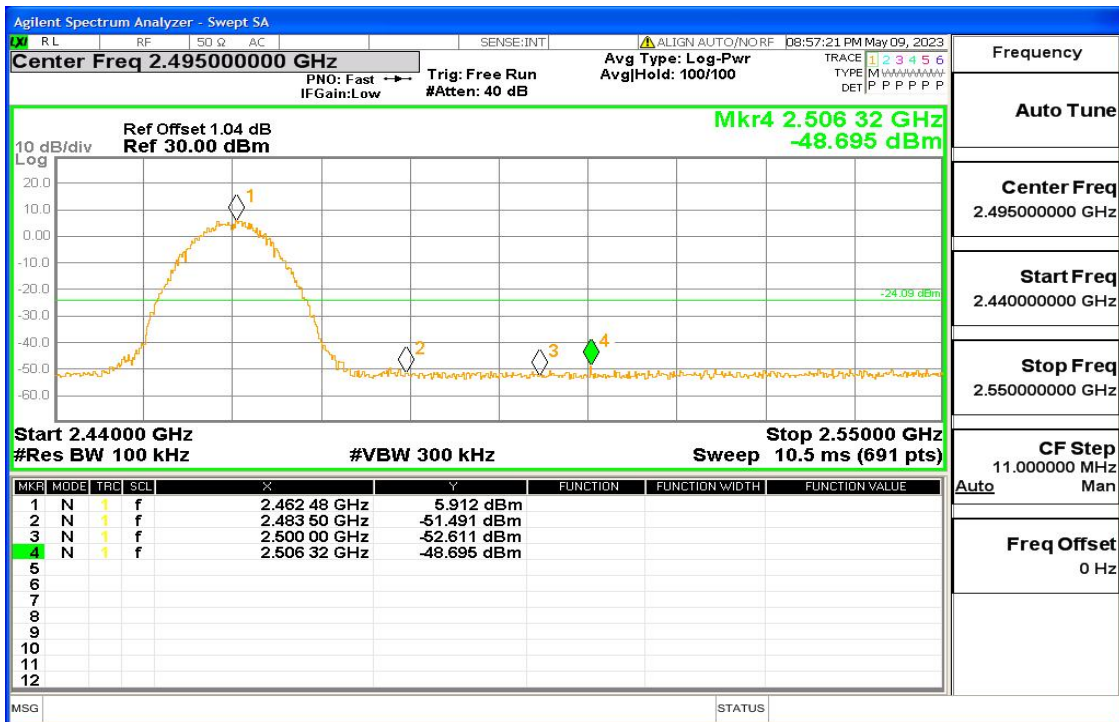
Chain.1

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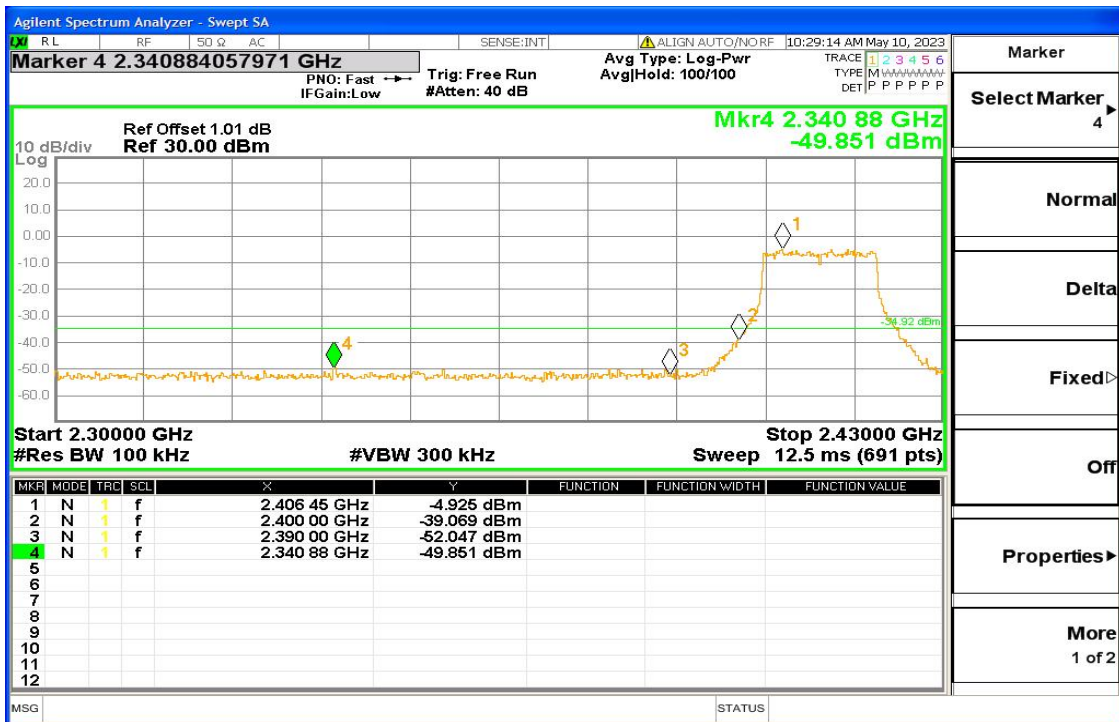
11b Fig1



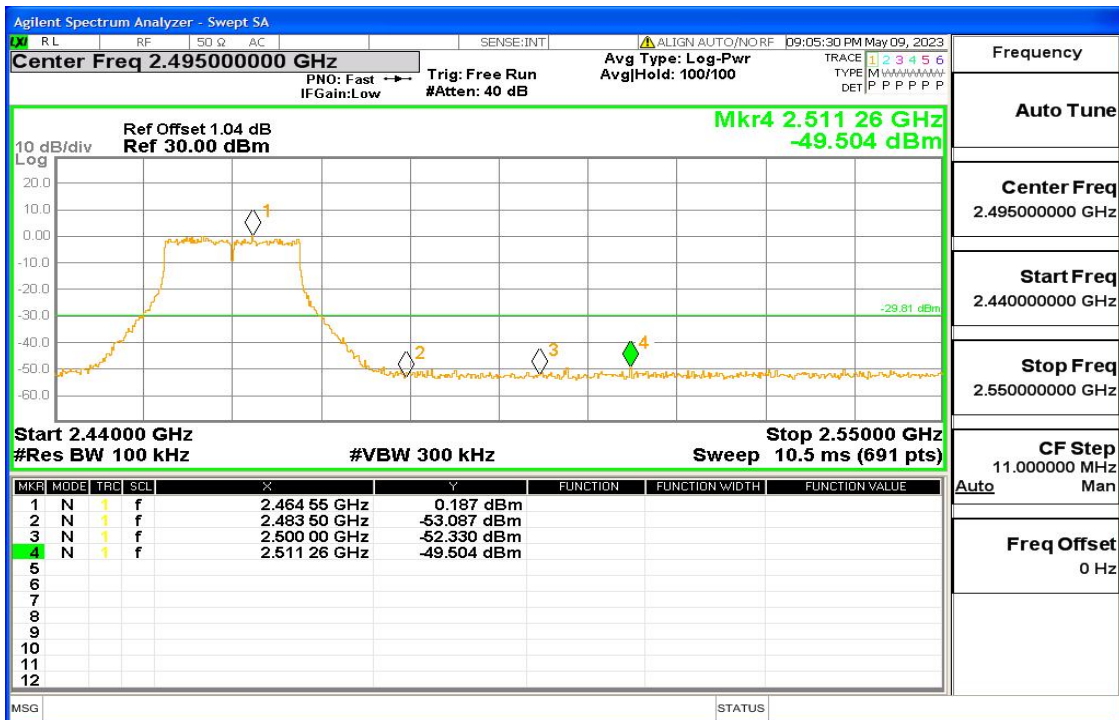
11b Fig2

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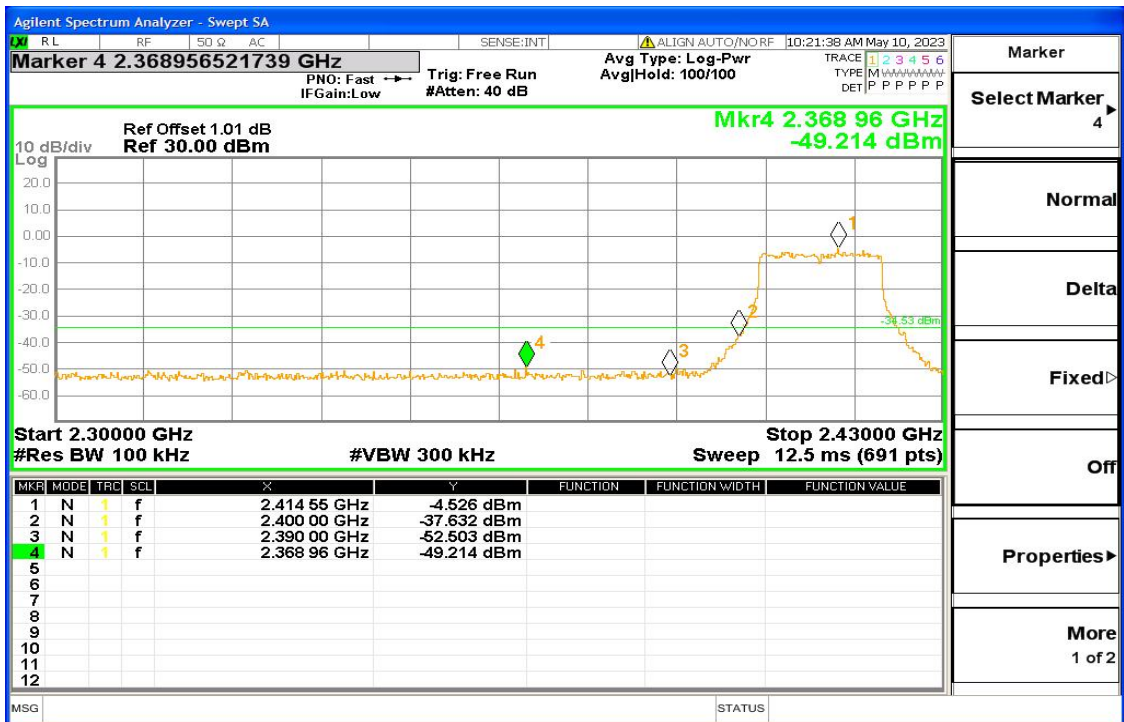
11g Fig1



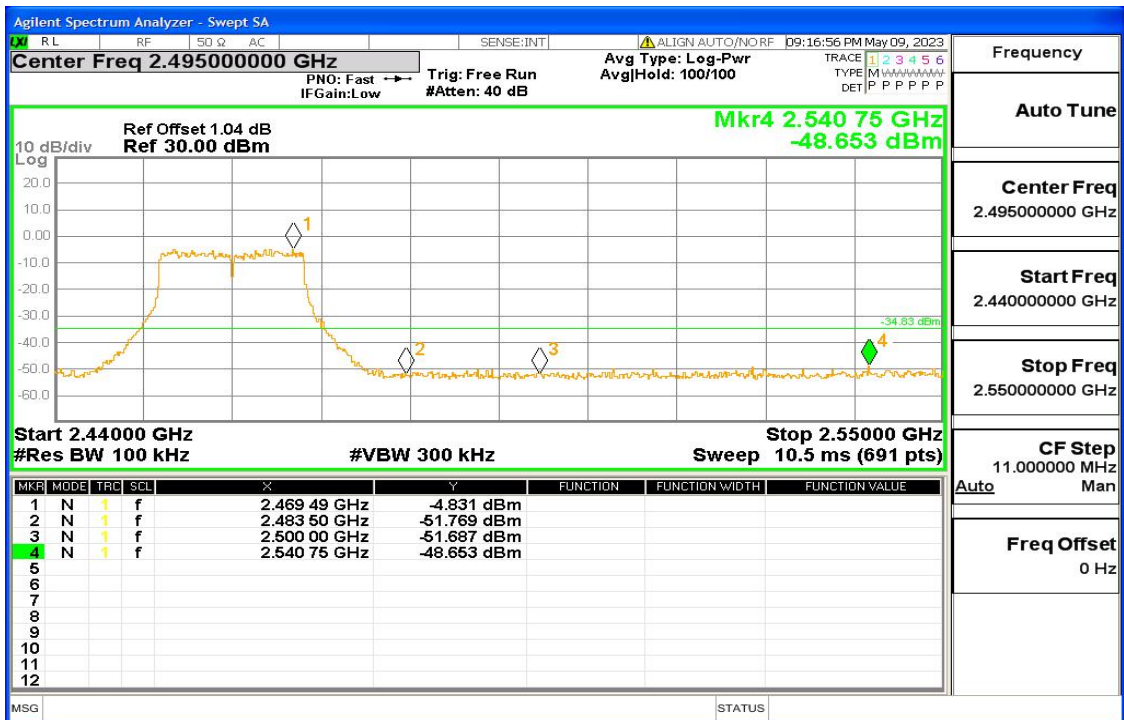
11g Fig2

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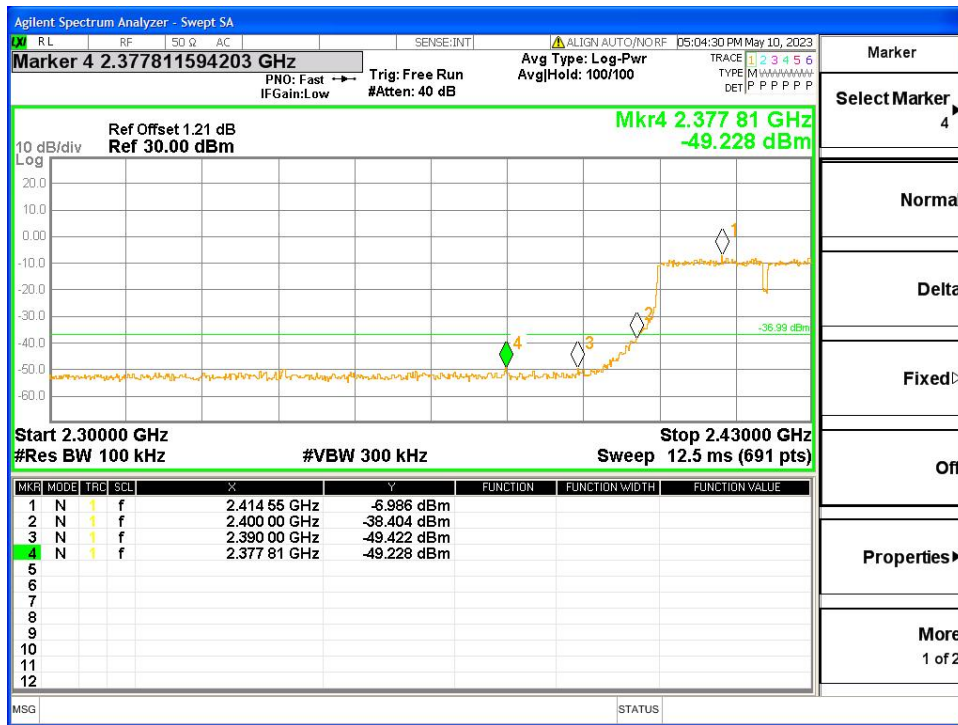
11n-HT20 Fig1



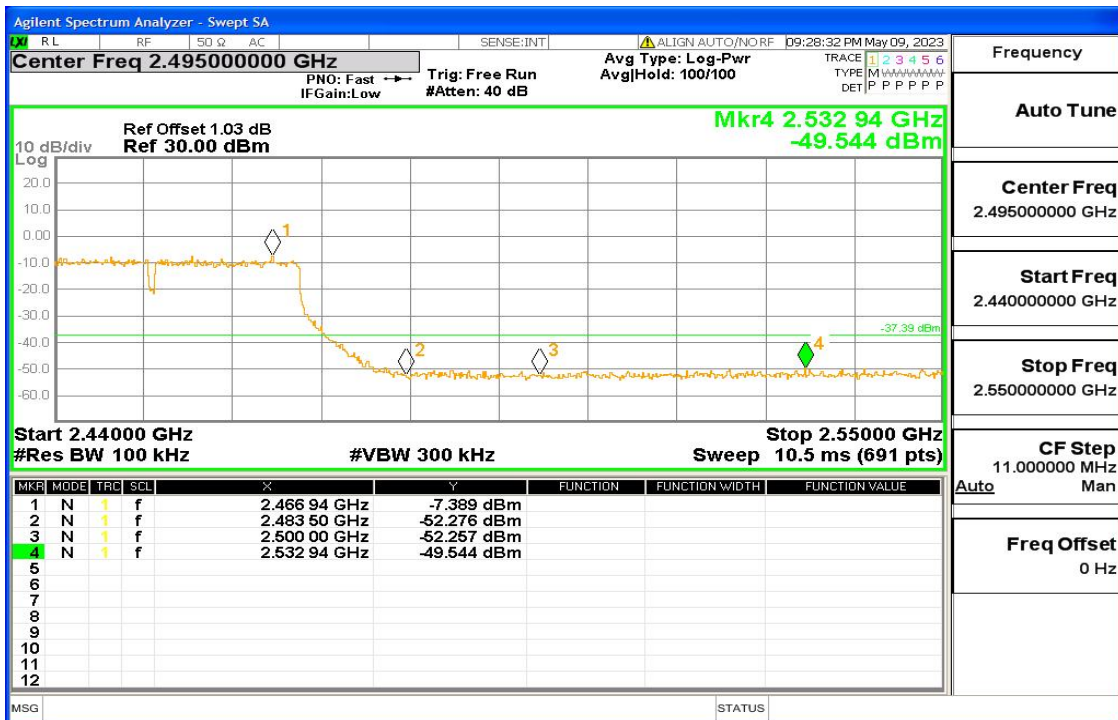
11n-HT20 Fig2

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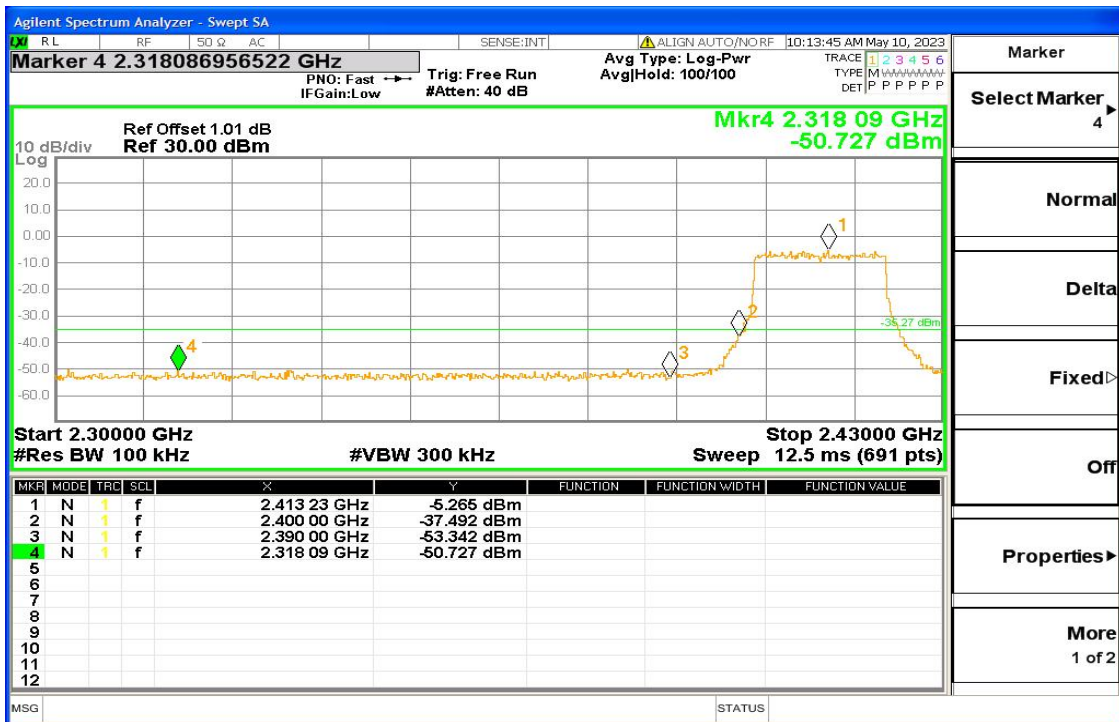
11n-HT40 Fig1



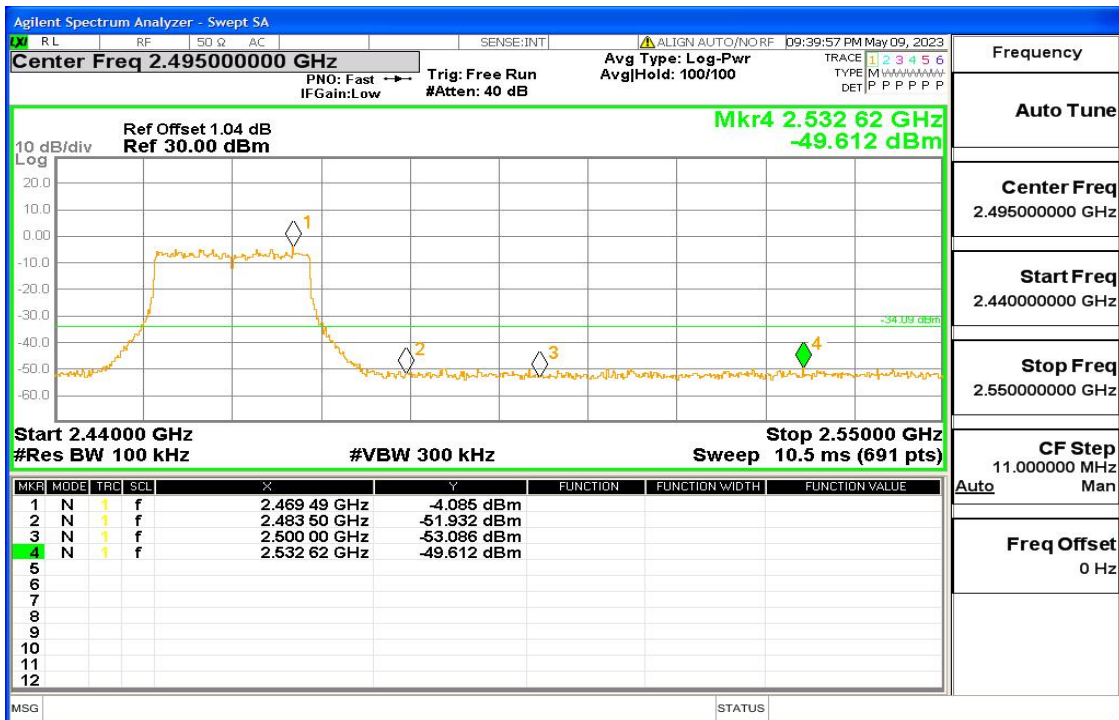
11n-HT40 Fig2

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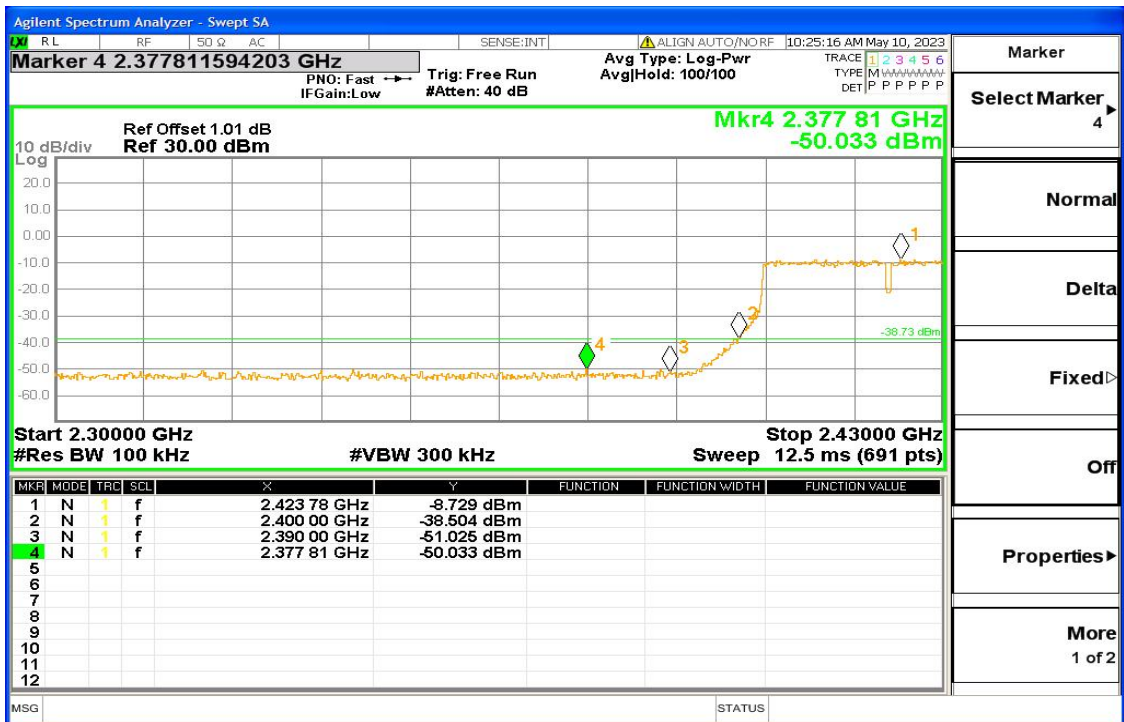
11ax-HE20 Fig1



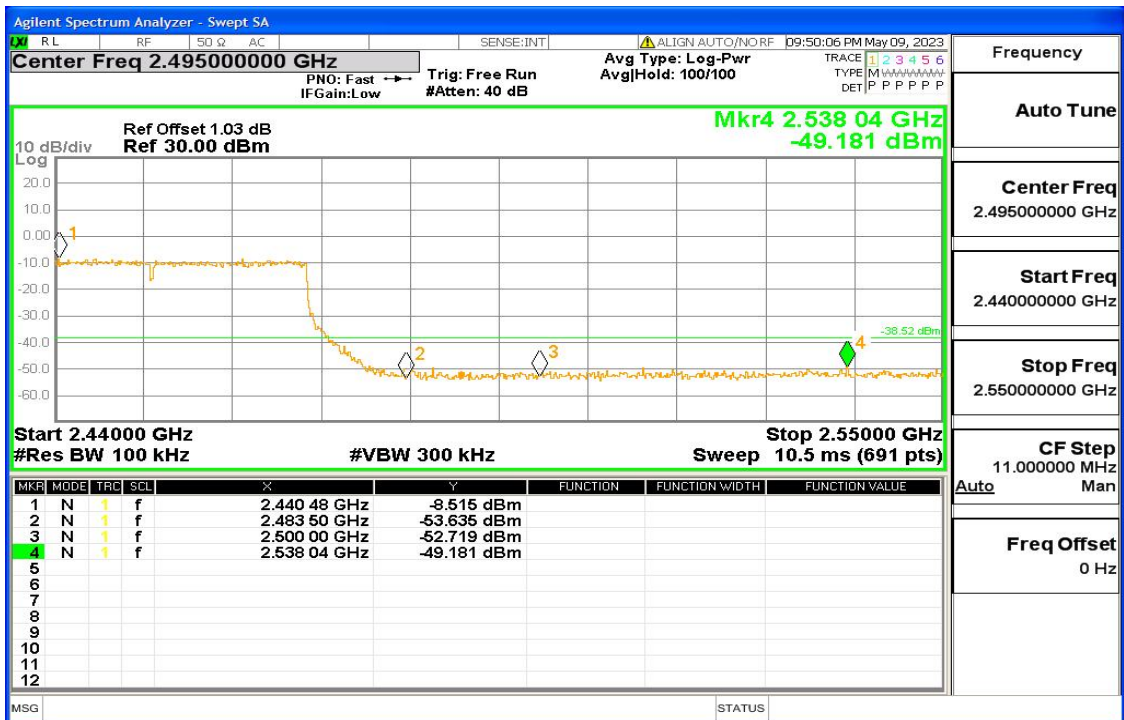
11ax-HE20 Fig2

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11ax-HE40 Fig1



11ax-HE40 Fig2

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6.6. Band Edges Compliance-Radiated

SpeciPications:	FCC 47 CFR Part 15.205, 15.209, 15.247(d)
DUT Serial Number:	S2
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limited(dBuV/m)	
	FCC 47 CFR Part 15.247(d)	Peak
Average		54

Measurement Uncertainty:

Frequency Range	Uncertainty
1 GHz to 6 GHz	4.84

Test Procedure

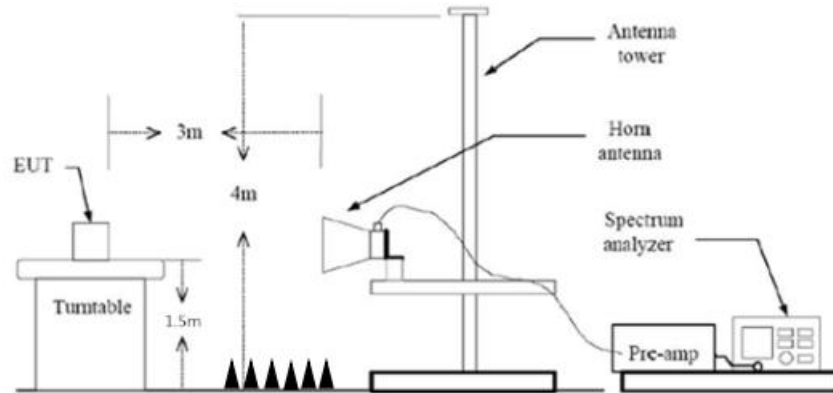
- 1.The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3.The antenna is a broadband antenna, and its 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.
- 4.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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6.If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Note: --

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Test block diagram:



Test Result:

802.11b/g mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11b	1	Pic.1	Pass
	11	Pic.2	Pass
802.11g	1	Pic.3	Pass
	11	Pic.4	Pass

802.11n mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11n (20MHz)	1	Pic.5	Pass
	11	Pic.6	Pass
802.11n (40MHz)	3	Pic.7	Pass

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	9	Pic.8	Pass
--	---	-------	------

802.11ax mode

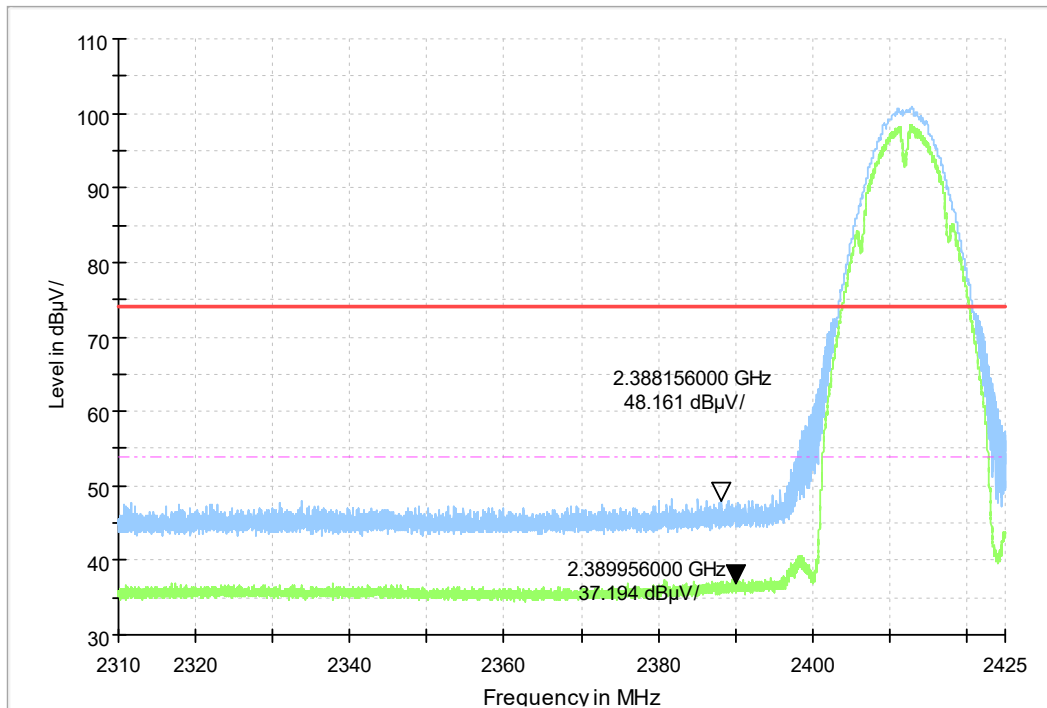
mode	Channel	Test Results(dBuV/m)	Conclusion
802.11ax (20MHz)	1	Pic.9	Pass
	11	Pic.10	Pass
802.11ax (40MHz)	3	Pic.11	Pass
	9	Pic.12	Pass

Note:

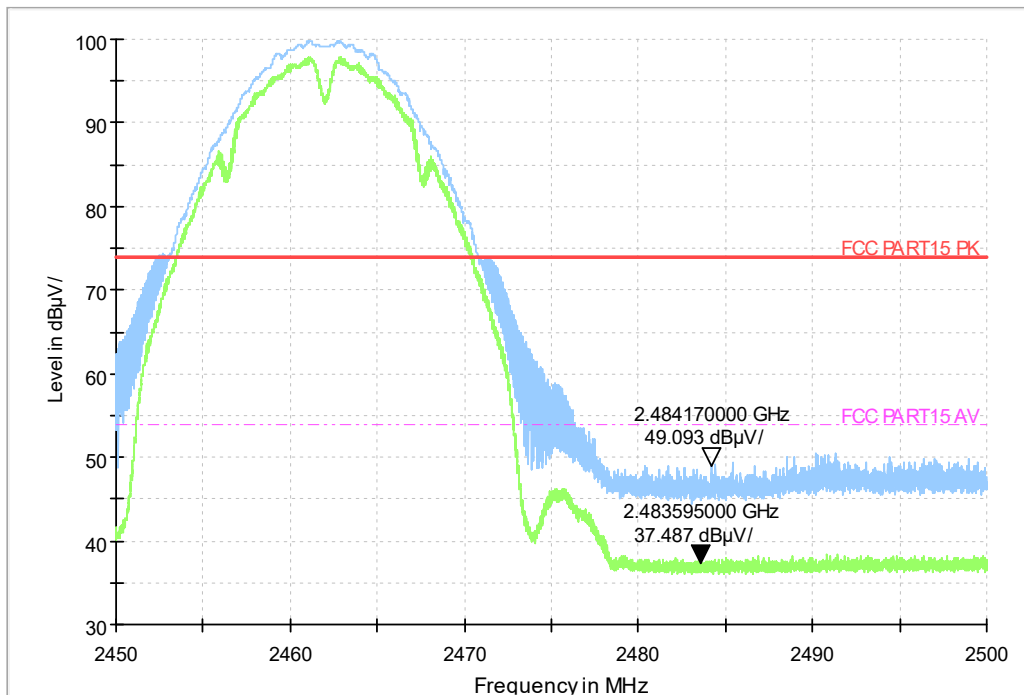
- 1) All mode were tested, Only worst case (802.11b/g-ant0, 802.11n/ax-MIMO mode) are presented in the report.
- 2) All the test data shown was peak detected. Transmitter Spurious Emission-Radiated H and V are tested together., The test is maximum hold. Therefore, the result is only one set of data.

Conclusion: PASS

Test Picture as below:



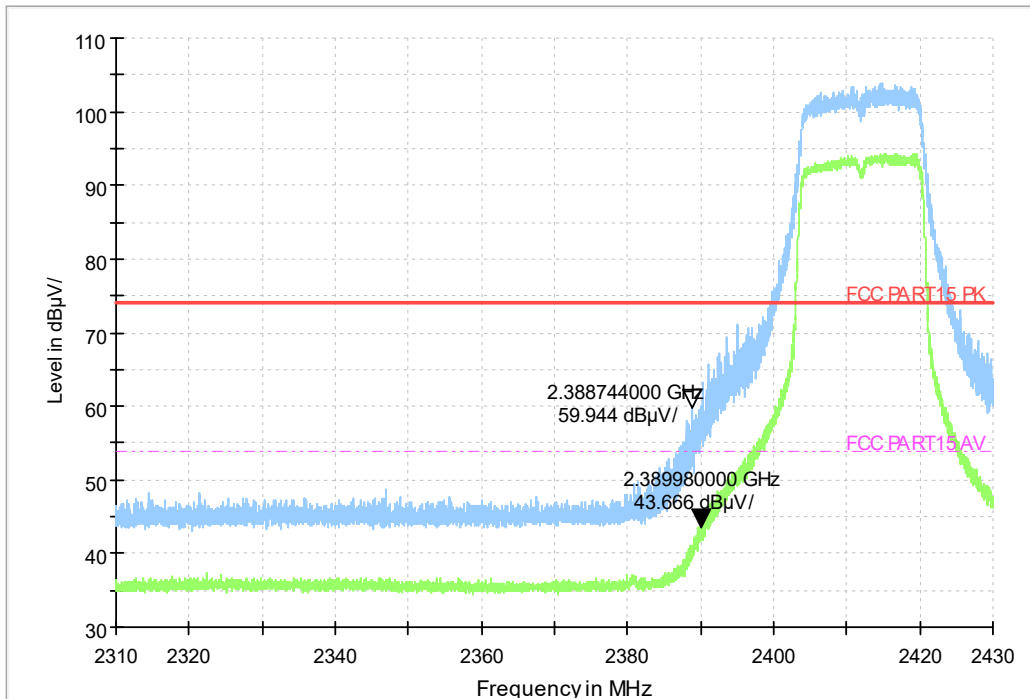
Pic.1 Frequency Band Edge: Ch1,11b



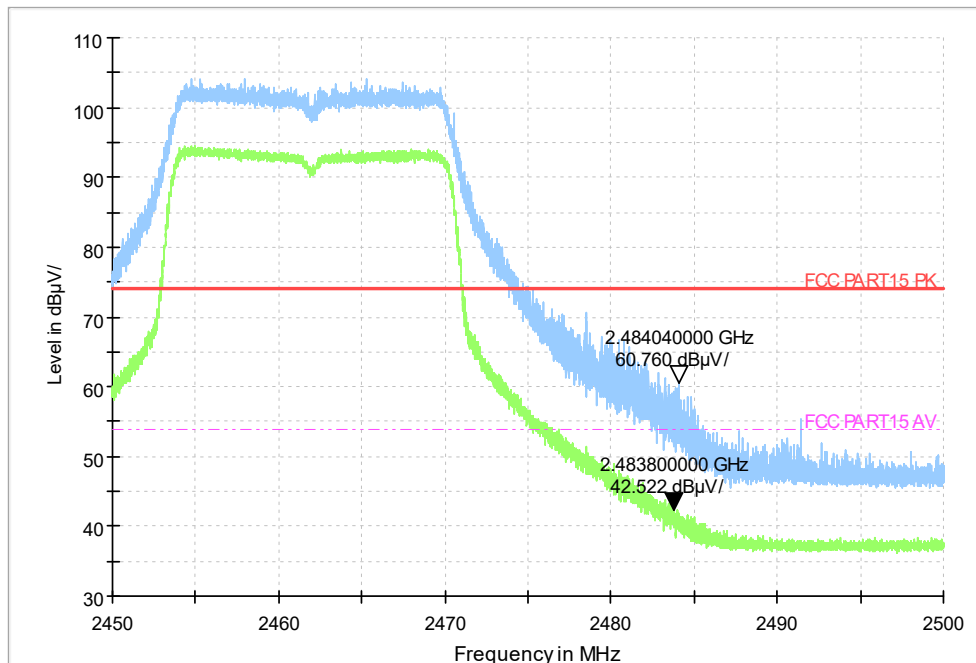
Pic.2 Frequency Band Edge: Ch11,11b

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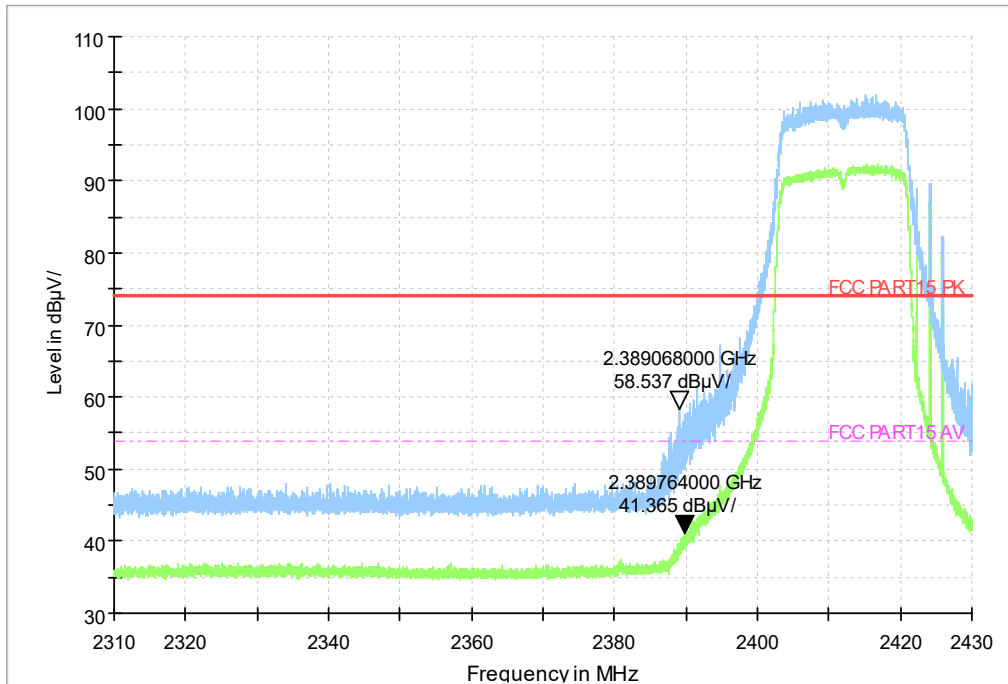
Pic.3 Frequency Band Edge: Ch1,11g



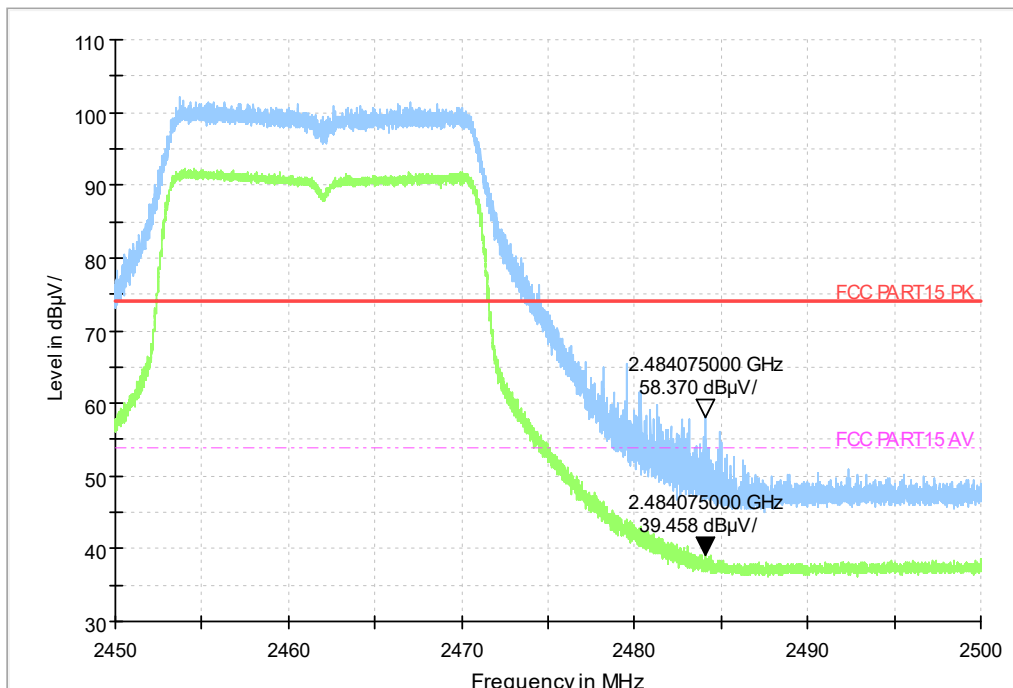
Pic.4 Frequency Band Edge: Ch11,11g

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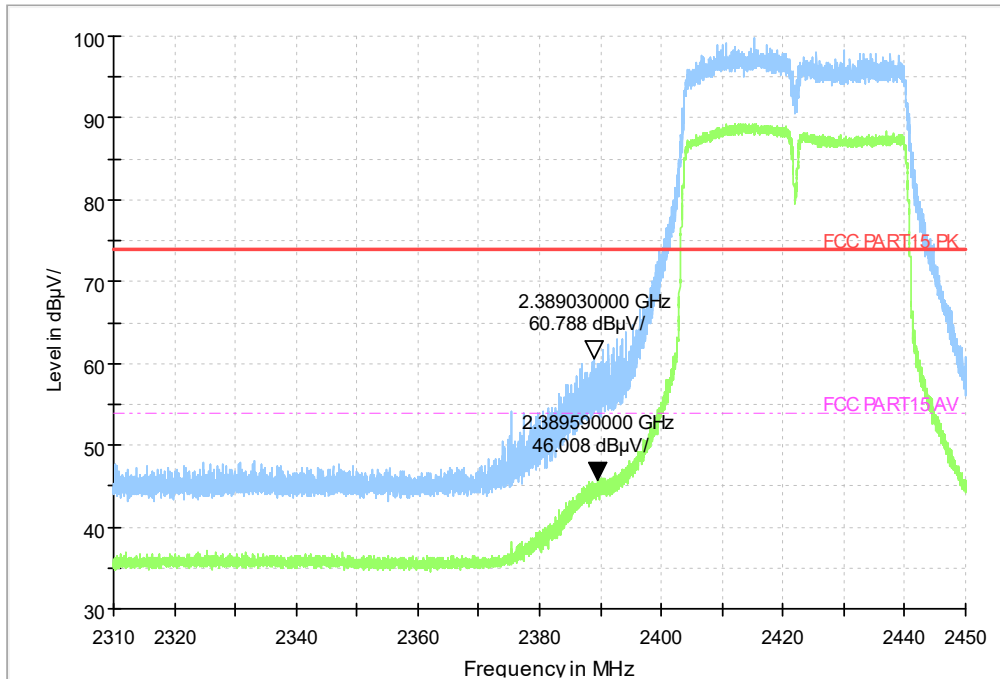
Pic.5 Frequency Band Edge: Ch1,11n 20M



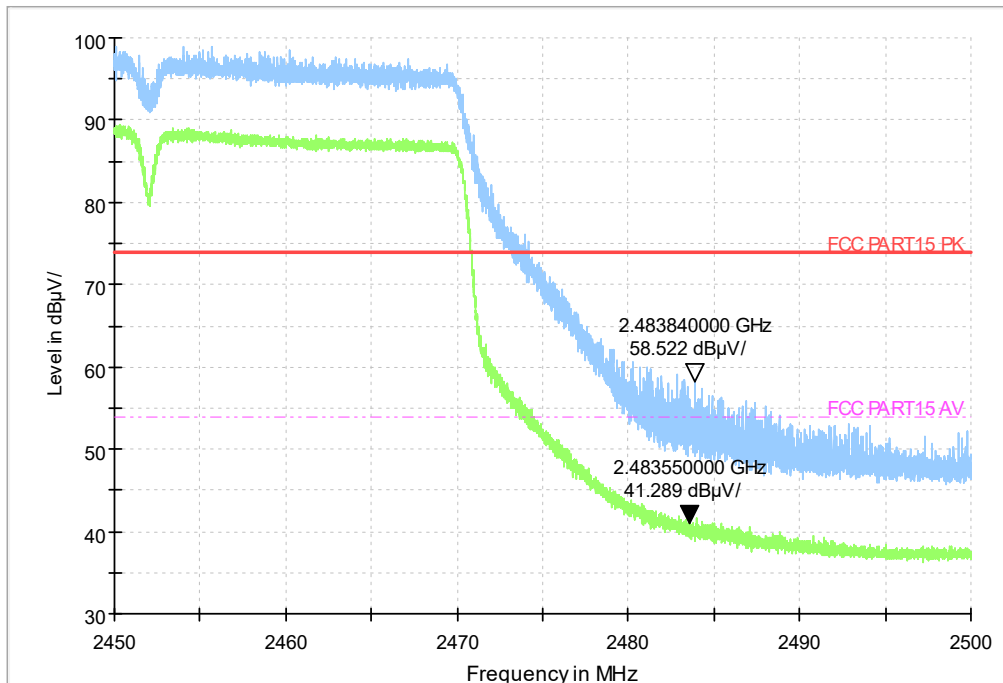
Pic.6 Frequency Band Edge: Ch11,11n 20M

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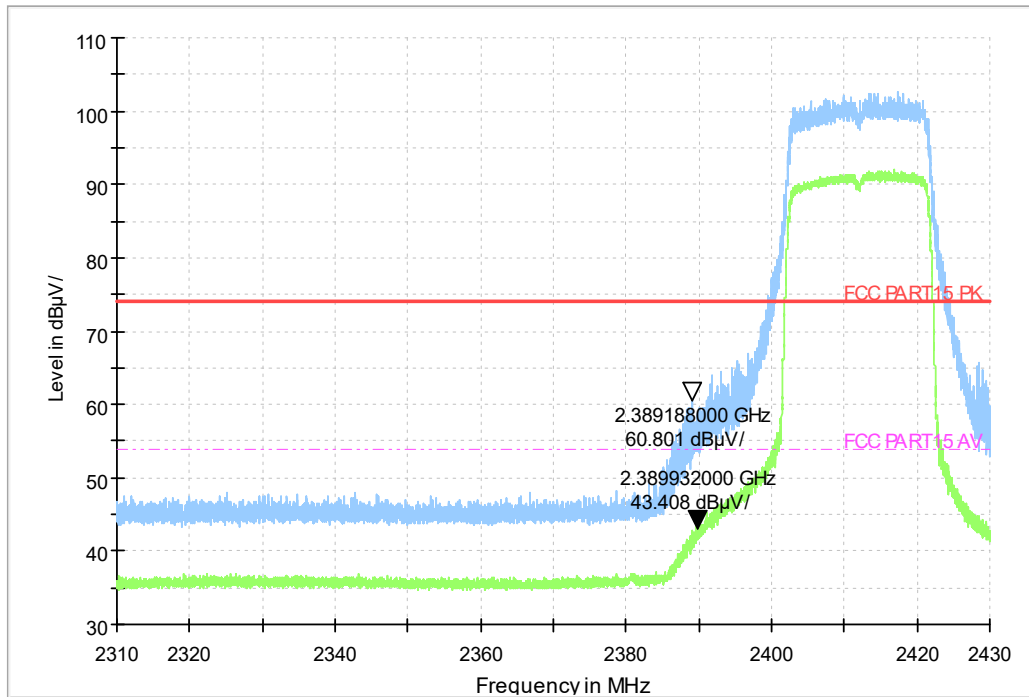
Pic.7 Frequency Band Edge: Ch3,11n 40M



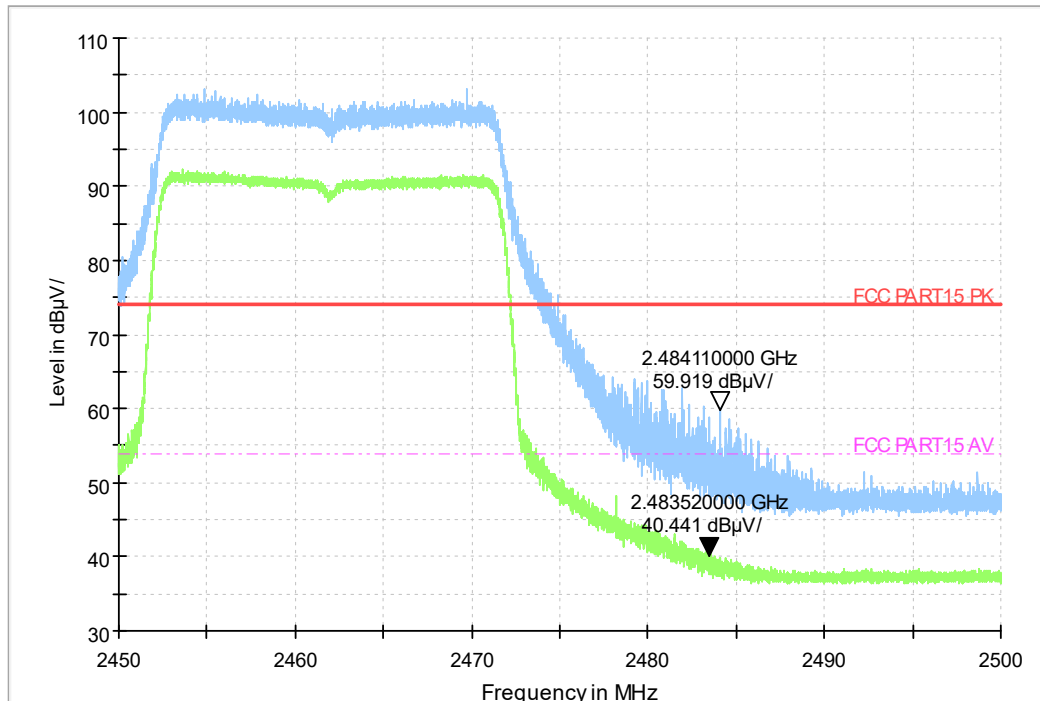
Pic.8 Frequency Band Edge: Ch9,11n 40M

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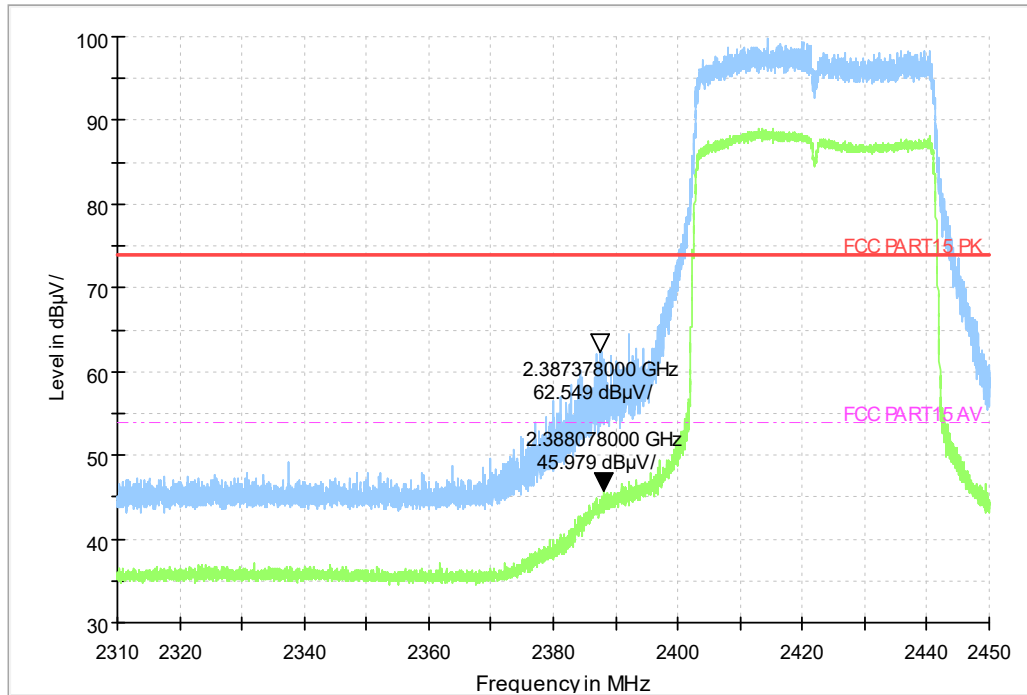
Pic.9 Frequency Band Edge: Ch1, 11ax 20M



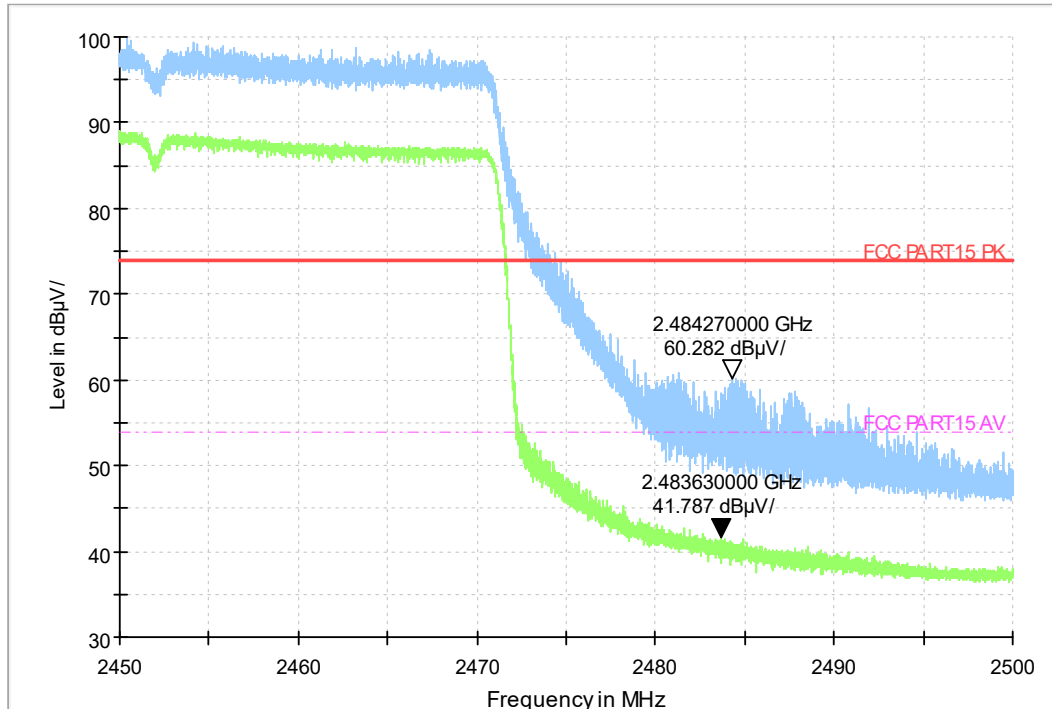
Pic.10 Frequency Band Edge: Ch11, 11ax 20M

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Pic.11 Frequency Band Edge: Ch3,11ax 40M



Pic.12 Frequency Band Edge: Ch9,11ax 40M

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6.7. Transmitter Spurious Emission-Conducted

SpeciPications:	FCC 47 CFR Part15.247 (d)
DUT Serial Number:	S1
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

Limit

Standard	Limit
FCC 47 CFR Part15.247 (d)	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 § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Note: Directional gain according to section 3.2 of this report

Band	802.11b/g Directional gain (dBi)	802.11n/ax Directional gain (dBi)
2.4G	2.97	5.98

Measurement Uncertainty:

Frequency Range	Uncertainty
30MHz ≤ f ≤ 26GHz	±1.54

Test Procedure

This measurement is according to ANSI C63.10 clause 11.11.2 and 11.11.3

The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.

Enable EUT transmitter maximum power continuously.

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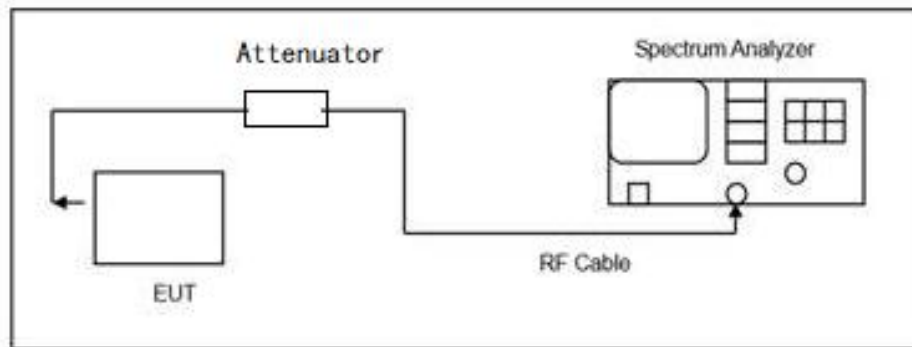
Reference level measurement

- 1.Set instrument center frequency to DTS channel center frequency.
- 2.Set the span to ≥ 1.5 times the DTS bandwidth.
- 3.Set the RBW = 100 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 PSD level.

Emission level measurement

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

Test block diagram:



Measurement Results:

Chain.0

Mode	Channel	Peak Power (dBm)	Peak Pic	Frequency Range	Worst Power (dBm)	Limit (dBm)	Emission Pic	Conclusion
802.11b	1	6.44	Fig.1	30.00MHz~1.00GHz	-51.00	-23.56	Fig.2	PASS
				1.00GHz~26.50GHz	-35.60	-23.56	Fig.3	PASS
	6	4.82	Fig.4	30.00MHz~1.00GHz	-51.26	-25.18	Fig.5	PASS
				1.00GHz~26.50GHz	-35.41	-25.18	Fig.6	PASS
	11	5.62	Fig.7	30.00MHz~1.00GHz	-51.39	-24.38	Fig.8	PASS
				1.00GHz~26.50GHz	-35.75	-24.38	Fig.9	PASS

Mode	Channel	Peak Power (dBm)	Peak Pic	Frequency Range	Worst Power (dBm)	Limit (dBm)	Emission Pic	Conclusion
802.11g	1	-1.37	Fig.1	30.00MHz~1.00GHz	-51.05	-31.37	Fig.2	PASS
				1.00GHz~26.50GHz	-35.62	-31.37	Fig.3	PASS
	6	0.41	Fig.4	30.00MHz~1.00GHz	-51.57	-29.59	Fig.5	PASS
				1.00GHz~26.50GHz	-35.27	-29.59	Fig.6	PASS
	11	-0.55	Fig.7	30.00MHz~1.00GHz	-51.35	-30.55	Fig.8	PASS
				1.00GHz~26.50GHz	-35.71	-30.55	Fig.9	PASS

Mode	Channel	Peak Power (dBm)	Peak Pic	Frequency Range	Worst Power (dBm)	Limit (dBm)	Emission Pic	Conclusion
802.11n-HT20	1	-5.47	Fig.1	30.00MHz~1.00GHz	-51.26	-35.47	Fig.2	PASS
				1.00GHz~26.50GHz	-51.36	-35.47	Fig.3	PASS
	6	-4.90	Fig.4	30.00MHz~1.00GHz	-51.70	-34.90	Fig.5	PASS
				1.00GHz~26.50GHz	-50.72	-34.90	Fig.6	PASS
	11	-5.71	Fig.7	30.00MHz~1.00GHz	-51.55	-35.71	Fig.8	PASS
				1.00GHz~26.50GHz	-50.64	-35.71	Fig.9	PASS

Mode	Channel	Peak Power (dBm)	Peak Pic	Frequency Range	Worst Power (dBm)	Limit (dBm)	Emission Pic	Conclusion
802.11n-HT40	3	-8.00	Fig.1	30.00MHz~1.00GHz	-51.44	-38.00	Fig.2	PASS
				1.00GHz~26.50GHz	-50.77	-38.00	Fig.3	PASS

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	6	-8.82	Fig.4	30.00MHz~1.00GHz	-51.29	-38.82	Fig.5	PASS
				1.00GHz~26.50GHz	-51.31	-38.82	Fig.6	PASS
	9	-8.34	Fig.7	30.00MHz~1.00GHz	-51.30	-38.34	Fig.8	PASS
				1.00GHz~26.50GHz	-50.80	-38.34	Fig.9	PASS

Mode	Channel	Peak Power (dBm)	Peak Pic	Frequency Range	Worst Power (dBm)	Limit (dBm)	Emission Pic	Conclusion
802.11ax-HE20	1	-5.93	Fig.1	30.00MHz~1.00GHz	-51.81	-35.93	Fig.2	PASS
				1.00GHz~26.50GHz	-51.03	-35.93	Fig.3	PASS
	6	-5.89	Fig.4	30.00MHz~1.00GHz	-50.53	-35.89	Fig.5	PASS
				1.00GHz~26.50GHz	-51.34	-35.89	Fig.6	PASS
	11	-3.97	Fig.7	30.00MHz~1.00GHz	-51.91	-33.97	Fig.8	PASS
				1.00GHz~26.50GHz	-51.09	-33.97	Fig.9	PASS

Mode	Channel	Peak Power (dBm)	Peak Pic	Frequency Range	Worst Power (dBm)	Limit (dBm)	Emission Pic	Conclusion
802.11ax-HE40	3	-8.09	Fig.1	30.00MHz~1.00GHz	-51.87	-38.09	Fig.2	PASS
				1.00GHz~26.50GHz	-51.44	-38.09	Fig.3	PASS
	6	-8.11	Fig.4	30.00MHz~1.00GHz	-51.83	-38.11	Fig.5	PASS
				1.00GHz~26.50GHz	-51.27	-38.11	Fig.6	PASS
	9	-6.62	Fig.7	30.00MHz~1.00GHz	-51.84	-36.62	Fig.8	PASS
				1.00GHz~26.50GHz	-51.08	-36.62	Fig.9	PASS

Chain.1

Mode	Channel	Peak Power (dBm)	Peak Pic	Frequency Range	Worst Power (dBm)	Limit (dBm)	Emission Pic	Conclusion
802.11b	1	5.61	Fig.1	30.00MHz~1.00GHz	-51.57	-24.39	Fig.2	PASS
				1.00GHz~26.50GHz	-35.48	-24.39	Fig.3	PASS
	6	4.57	Fig.4	30.00MHz~1.00GHz	-51.26	-25.43	Fig.5	PASS
				1.00GHz~26.50GHz	-34.85	-25.43	Fig.6	PASS
	11	5.87	Fig.7	30.00MHz~1.00GHz	-51.33	-24.13	Fig.8	PASS
				1.00GHz~26.50GHz	-35.71	-24.13	Fig.9	PASS

Mode	Channel	Peak Power	Peak Pic	Frequency Range	Worst Power	Limit (dBm)	Emission Pic	Conclusion
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		(dBm)			(dBm)			
802.11g	1	-1.11	Fig.1	30.00MHz~1.00GHz	-51.82	-31.11	Fig.2	PASS
				1.00GHz~26.50GHz	-35.66	-31.11	Fig.3	PASS
	6	0.51	Fig.4	30.00MHz~1.00GHz	-51.16	-29.49	Fig.5	PASS
				1.00GHz~26.50GHz	-35.60	-29.49	Fig.6	PASS
	11	0.58	Fig.7	30.00MHz~1.00GHz	-51.62	-29.43	Fig.8	PASS
				1.00GHz~26.50GHz	-35.59	-29.43	Fig.9	PASS

Mode	Channel	Peak Power (dBm)	Peak Pic	Frequency Range	Worst Power (dBm)	Limit (dBm)	Emission Pic	Conclusion
802.11n-HT20	1	-6.66	Fig.1	30.00MHz~1.00GHz	-51.65	-36.66	Fig.2	PASS
				1.00GHz~26.50GHz	-51.30	-36.66	Fig.3	PASS
	6	-6.52	Fig.4	30.00MHz~1.00GHz	-51.60	-36.52	Fig.5	PASS
				1.00GHz~26.50GHz	-52.00	-36.52	Fig.6	PASS
	11	-6.21	Fig.7	30.00MHz~1.00GHz	-50.76	-36.21	Fig.8	PASS
				1.00GHz~26.50GHz	-47.10	-36.21	Fig.9	PASS

Mode	Channel	Peak Power (dBm)	Peak Pic	Frequency Range	Worst Power (dBm)	Limit (dBm)	Emission Pic	Conclusion
802.11n-HT40	3	-8.88	Fig.1	30.00MHz~1.00GHz	-52.01	-38.88	Fig.2	PASS
				1.00GHz~26.50GHz	-51.09	-38.88	Fig.3	PASS
	6	-8.70	Fig.4	30.00MHz~1.00GHz	-51.27	-38.70	Fig.5	PASS
				1.00GHz~26.50GHz	-51.36	-38.70	Fig.6	PASS
	9	-7.88	Fig.7	30.00MHz~1.00GHz	-51.65	-37.88	Fig.8	PASS
				1.00GHz~26.50GHz	-51.84	-37.88	Fig.9	PASS

Mode	Channel	Peak Power (dBm)	Peak Pic	Frequency Range	Worst Power (dBm)	Limit (dBm)	Emission Pic	Conclusion
802.11ax-HE20	1	-6.56	Fig.1	30.00MHz~1.00GHz	-51.26	-36.56	Fig.2	PASS
				1.00GHz~26.50GHz	-51.37	-36.56	Fig.3	PASS
	6	-6.44	Fig.4	30.00MHz~1.00GHz	-52.14	-36.44	Fig.5	PASS
				1.00GHz~26.50GHz	-51.37	-36.44	Fig.6	PASS
	11	-6.02	Fig.7	30.00MHz~1.00GHz	-43.57	-36.02	Fig.8	PASS
				1.00GHz~26.50GHz	-51.53	-36.02	Fig.9	PASS

Mode	Channel	Peak	Peak	Frequency Range	Worst	Limit	Emission	Conclusion
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		Power (dBm)	Pic		Power (dBm)	(dBm)	Pic	
802.11ax-HE40	3	-7.96	Fig.1	30.00MHz~1.00GHz	-51.79	-37.96	Fig.2	PASS
				1.00GHz~26.50GHz	-51.26	-37.96	Fig.3	PASS
	6	-9.11	Fig.4	30.00MHz~1.00GHz	-51.56	-39.11	Fig.5	PASS
				1.00GHz~26.50GHz	-50.76	-39.11	Fig.6	PASS
	9	-8.12	Fig.7	30.00MHz~1.00GHz	-48.11	-38.12	Fig.8	PASS
				1.00GHz~26.50GHz	-50.25	-38.12	Fig.9	PASS

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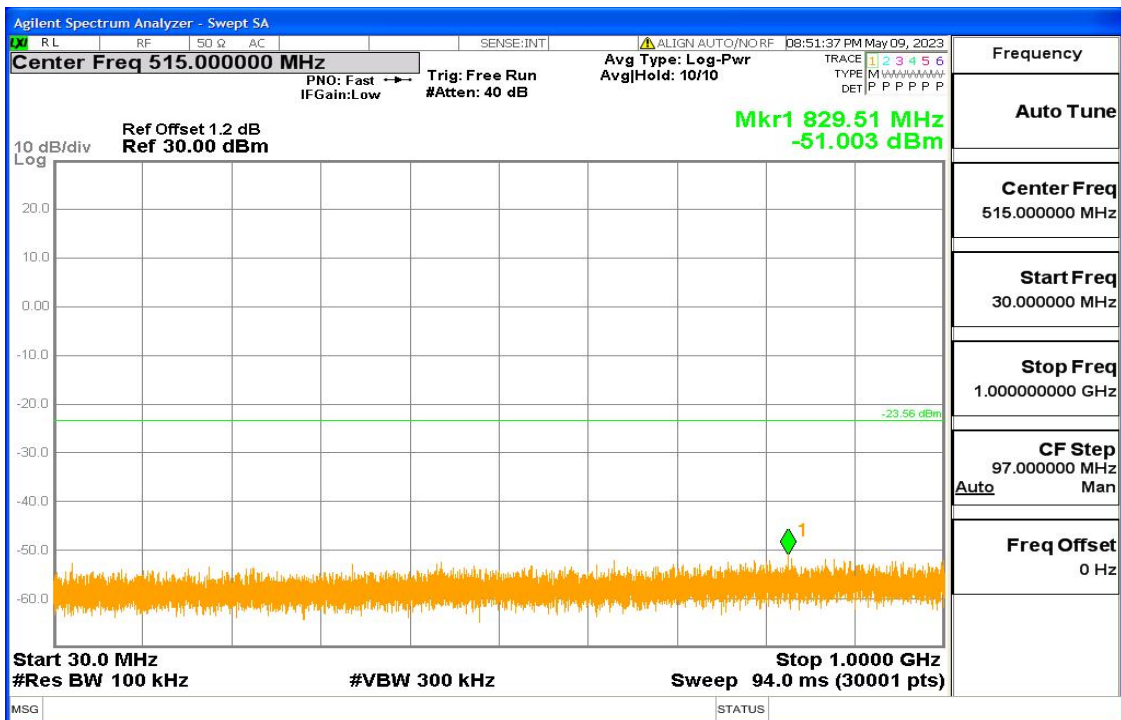
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Test Picture as below:

Chain.0



11b Fig1

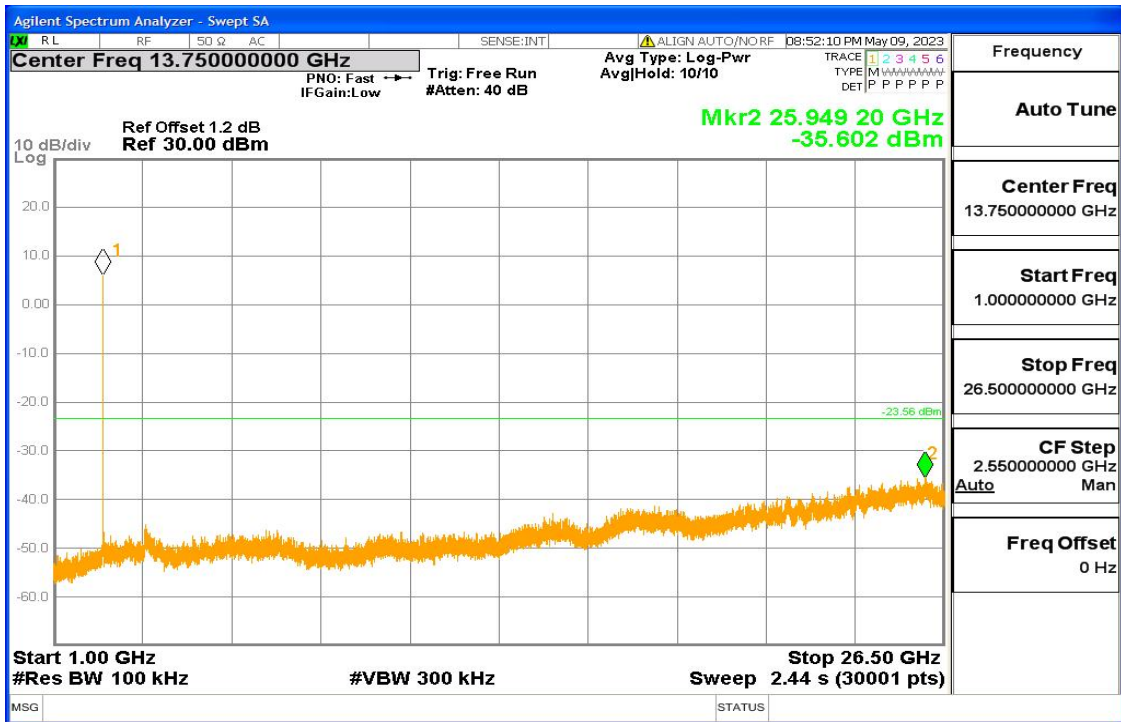


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11b Fig2



11b Fig3



11b Fig4

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