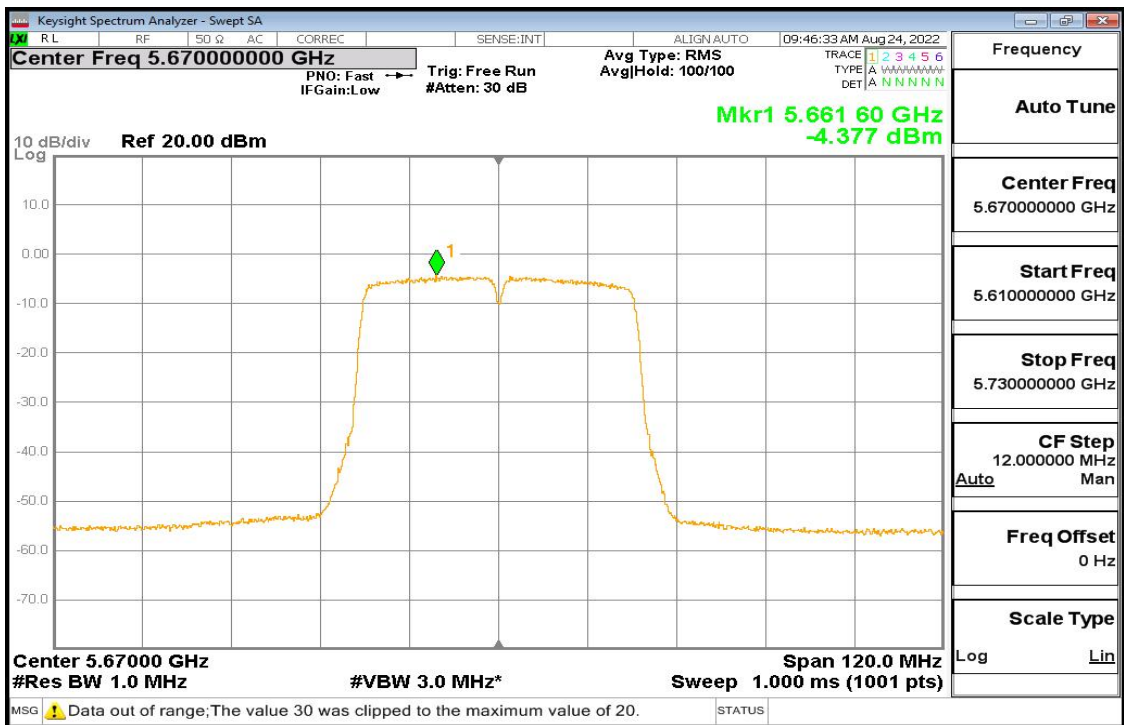


11ac-40 Pic6

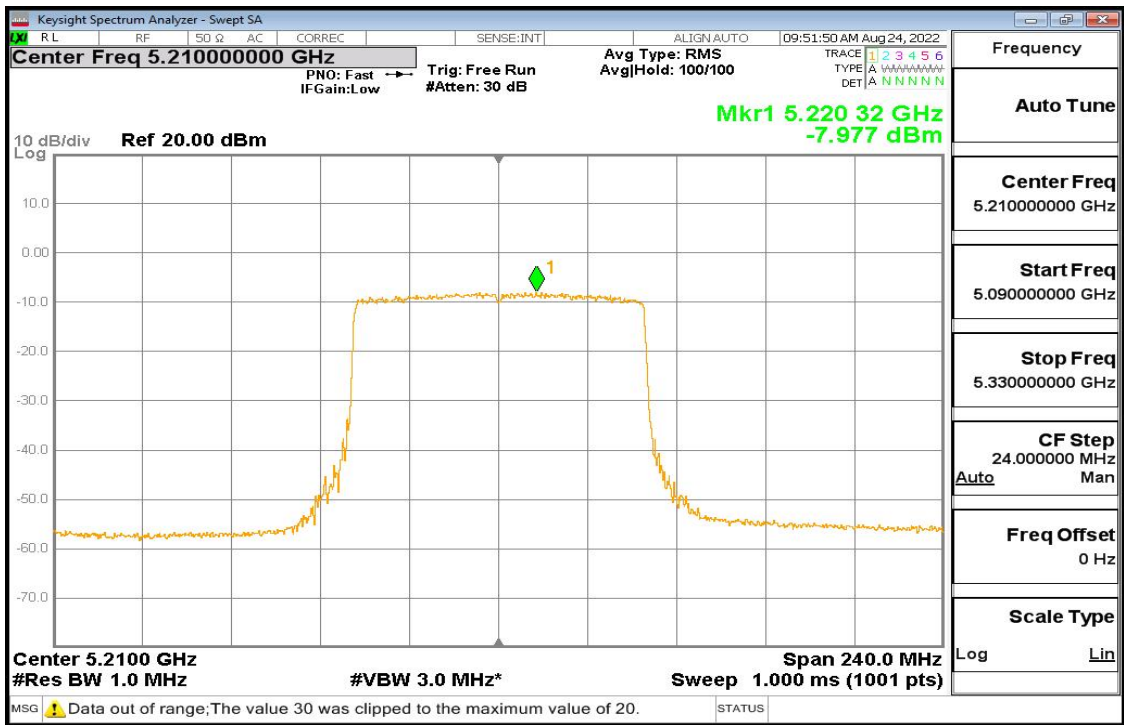


11ac-40 Pic7

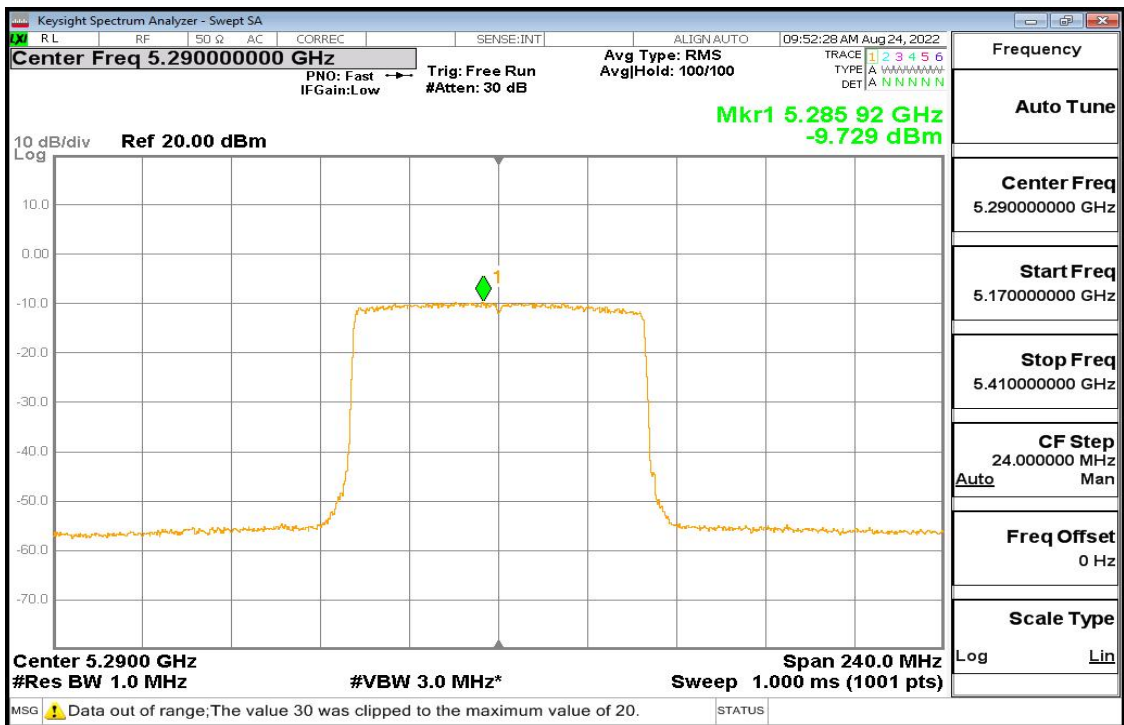
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11ac-80 Pic1

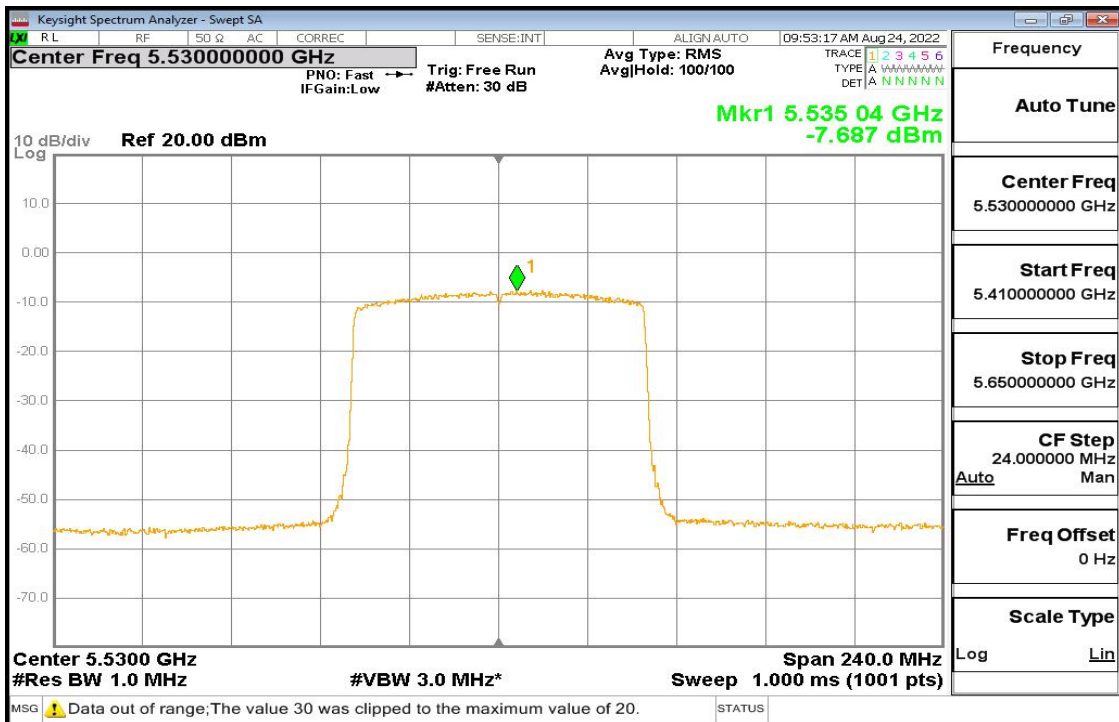


11ac-80 Pic2

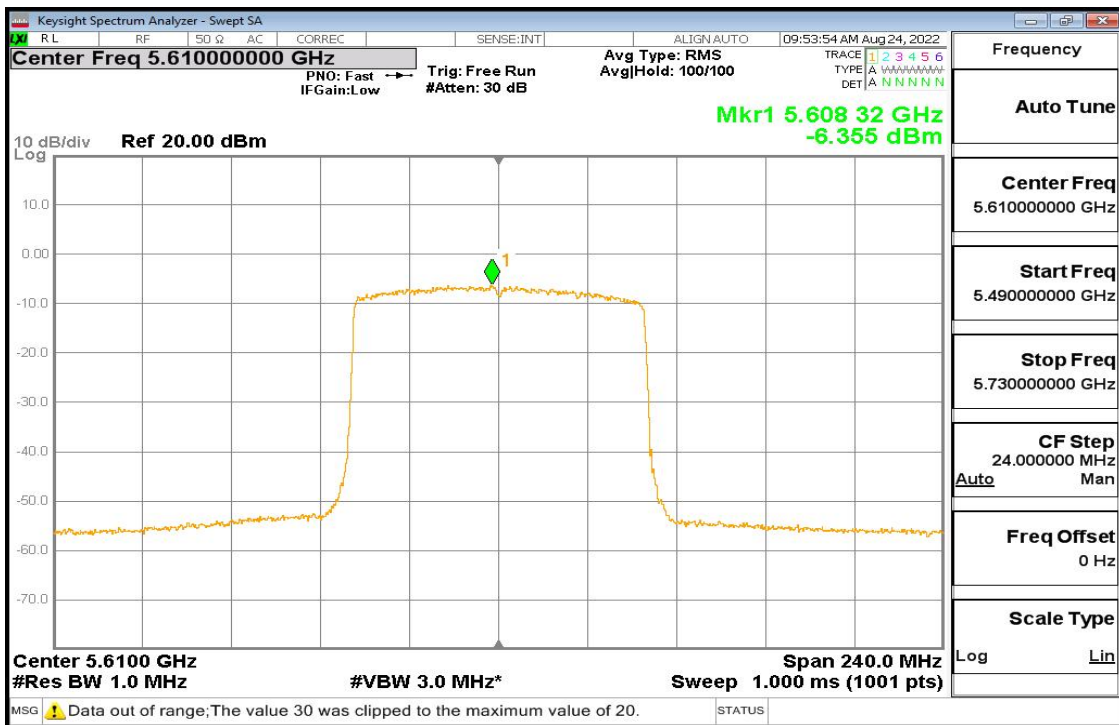
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11ac-80 Pic3

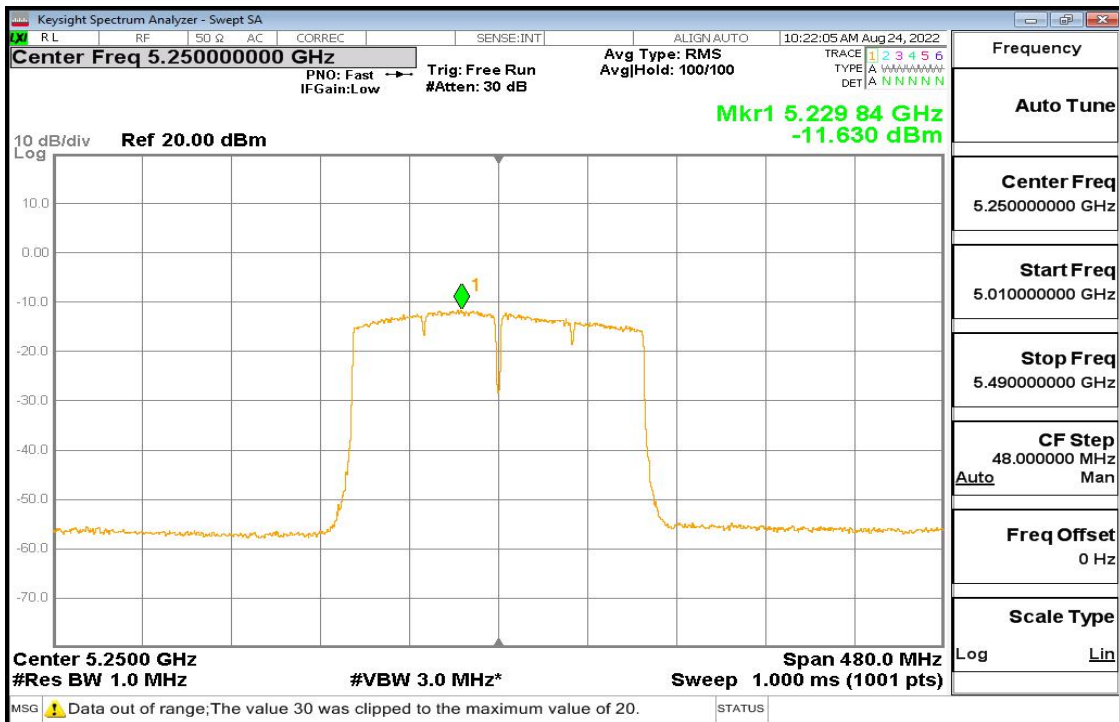


11ac-80 Pic4

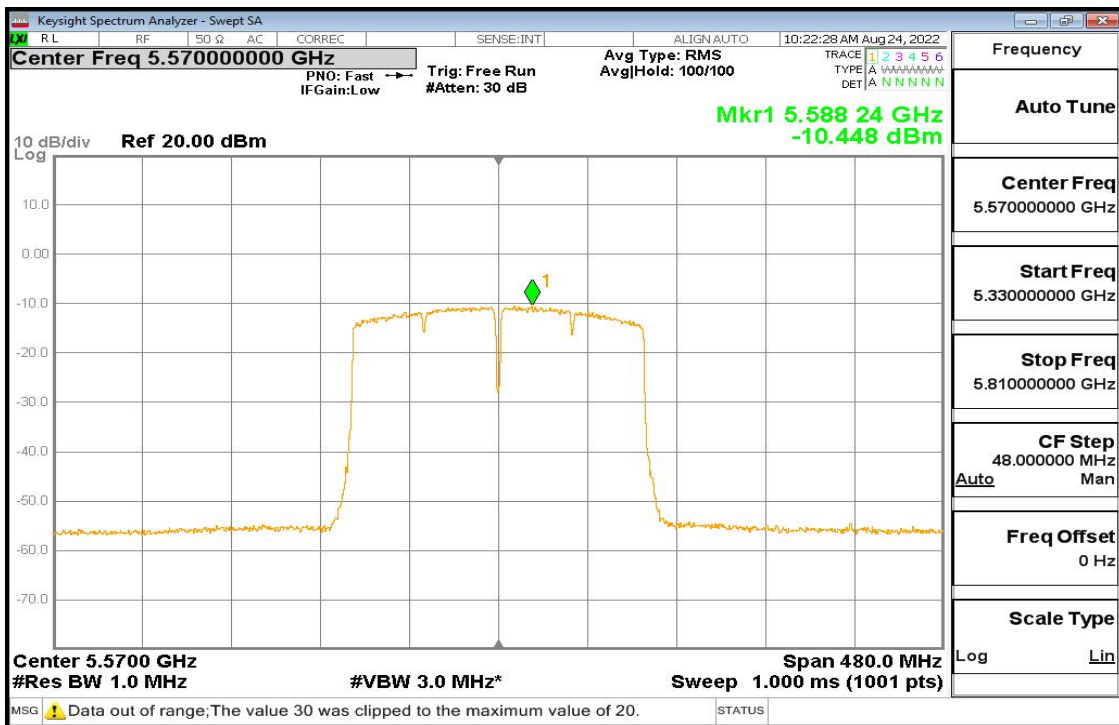
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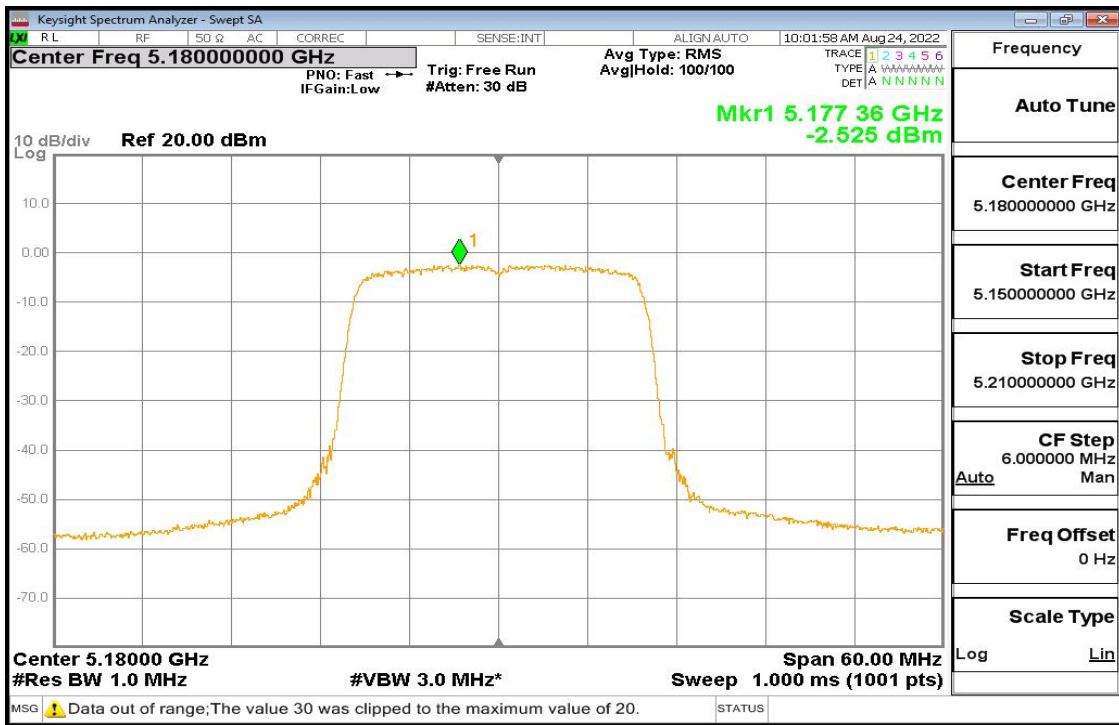
11ac-160 Pic1



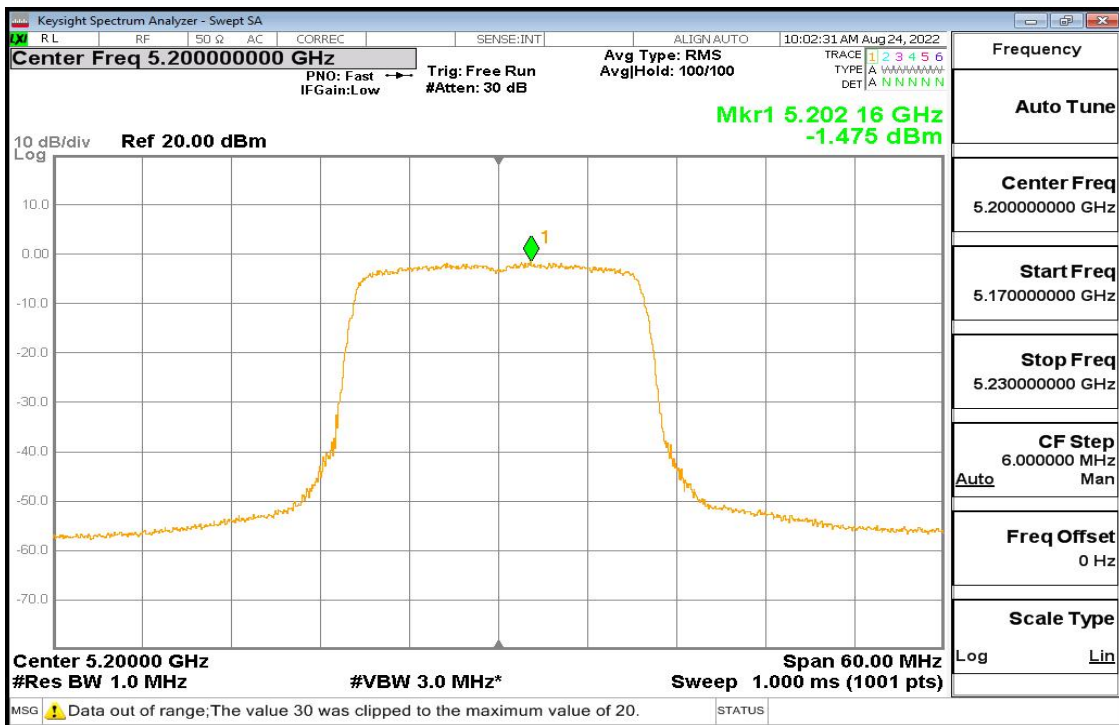
11ac-160 Pic2

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11ax-20 Pic1



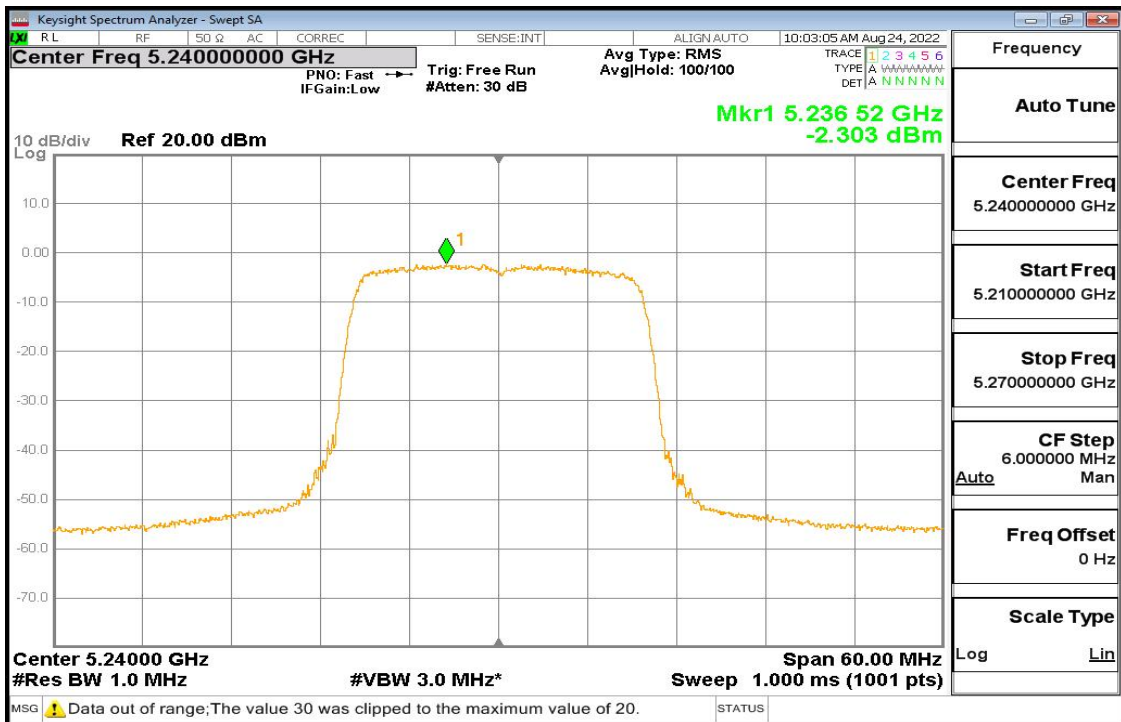
11ax-20 Pic2

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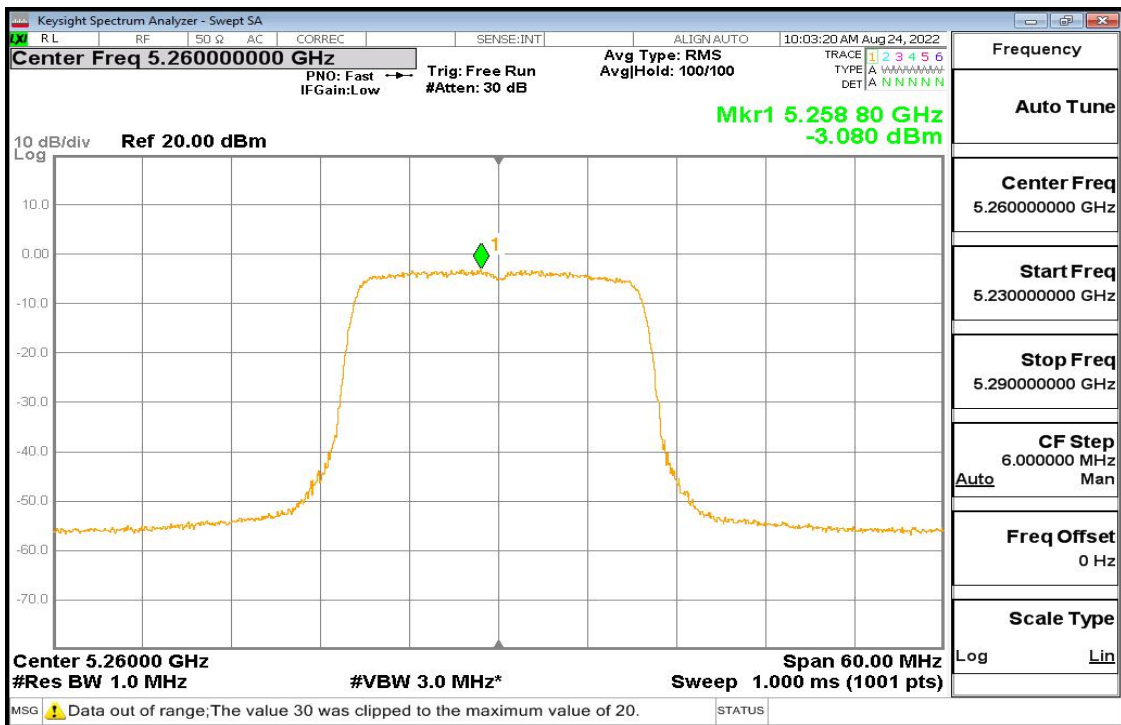
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11ax-20 Pic3

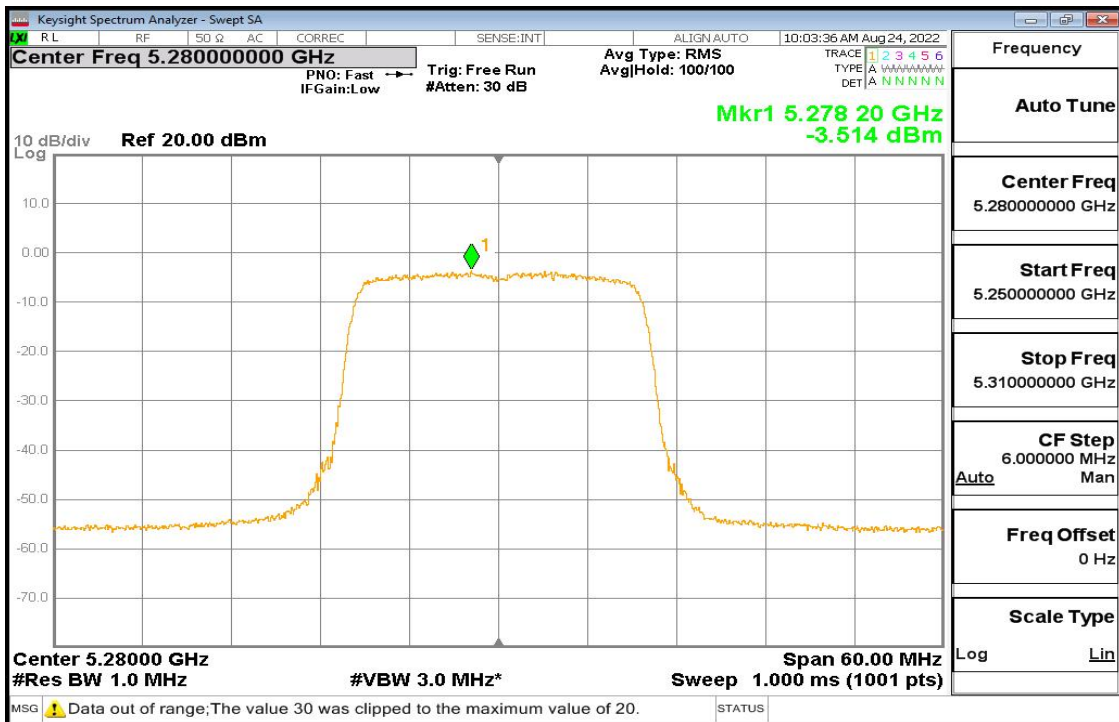


11ax-20 Pic4

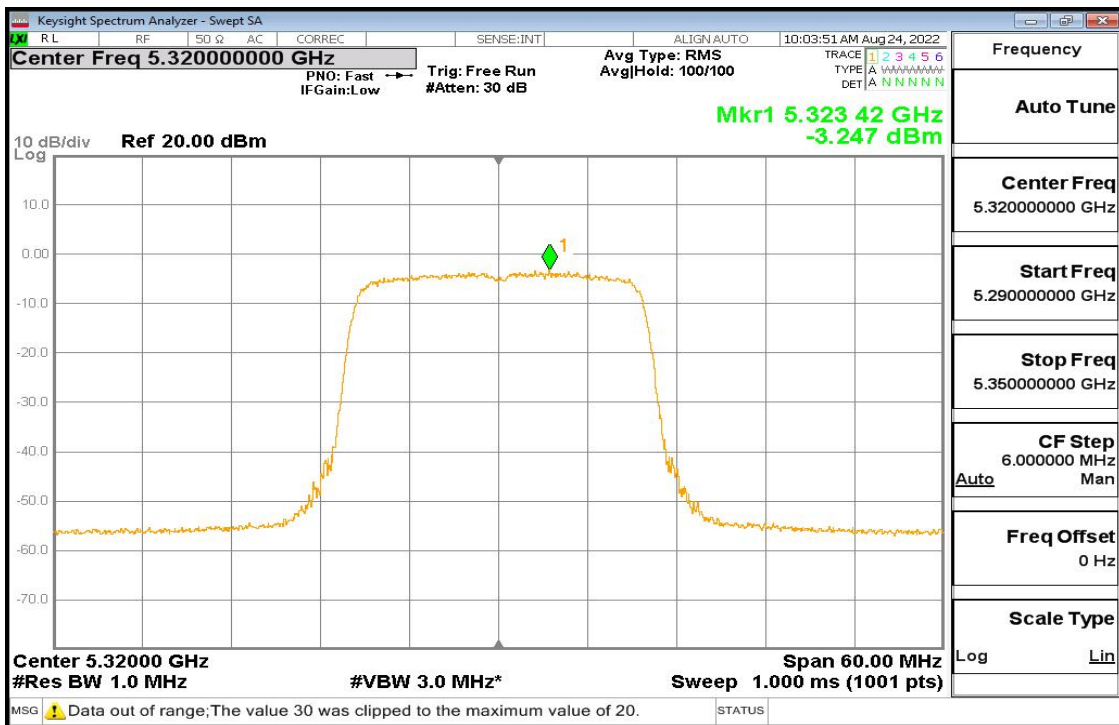
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11ax-20 Pic5

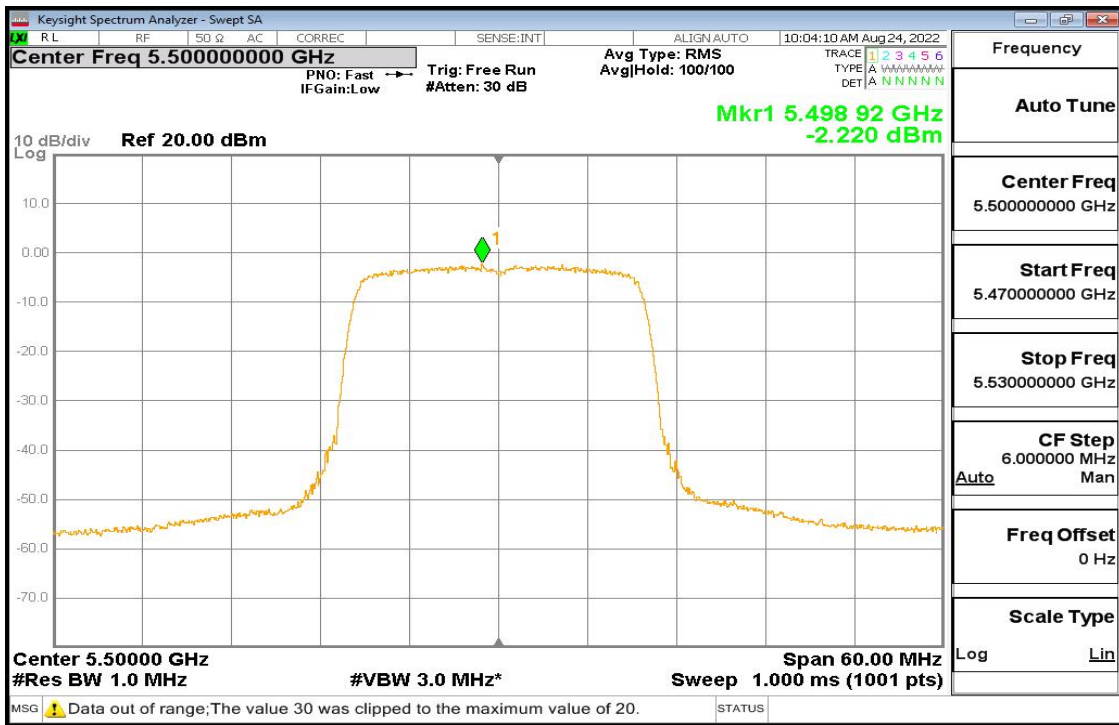


11ax-20 Pic6

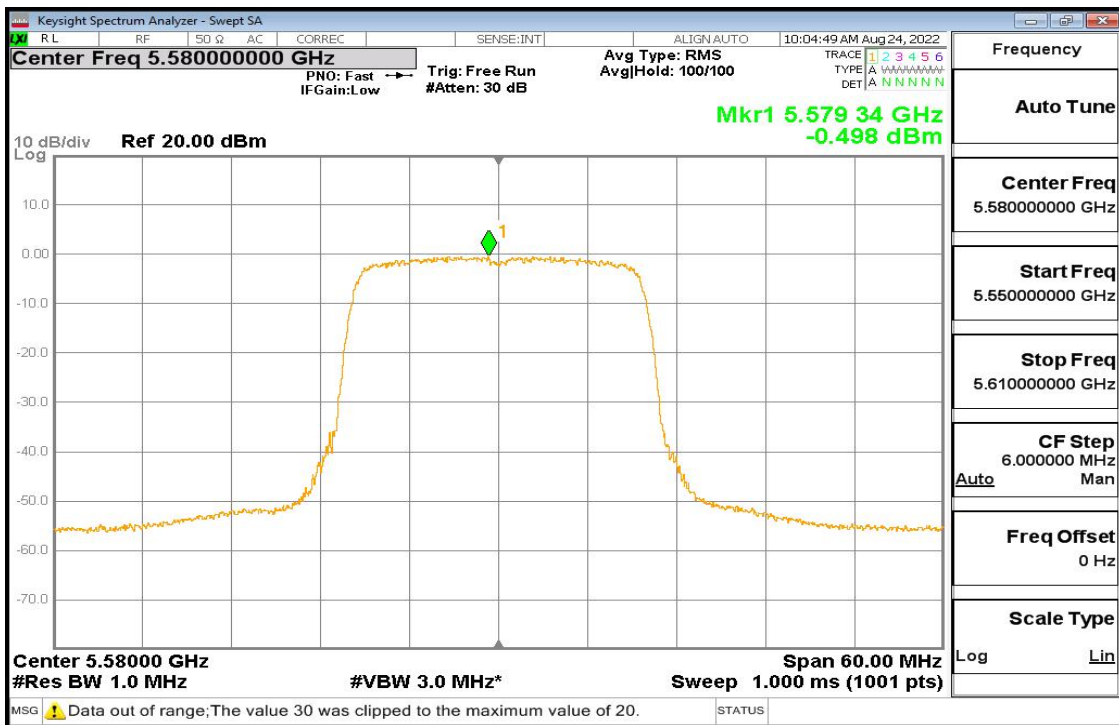
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11ax-20 Pic7

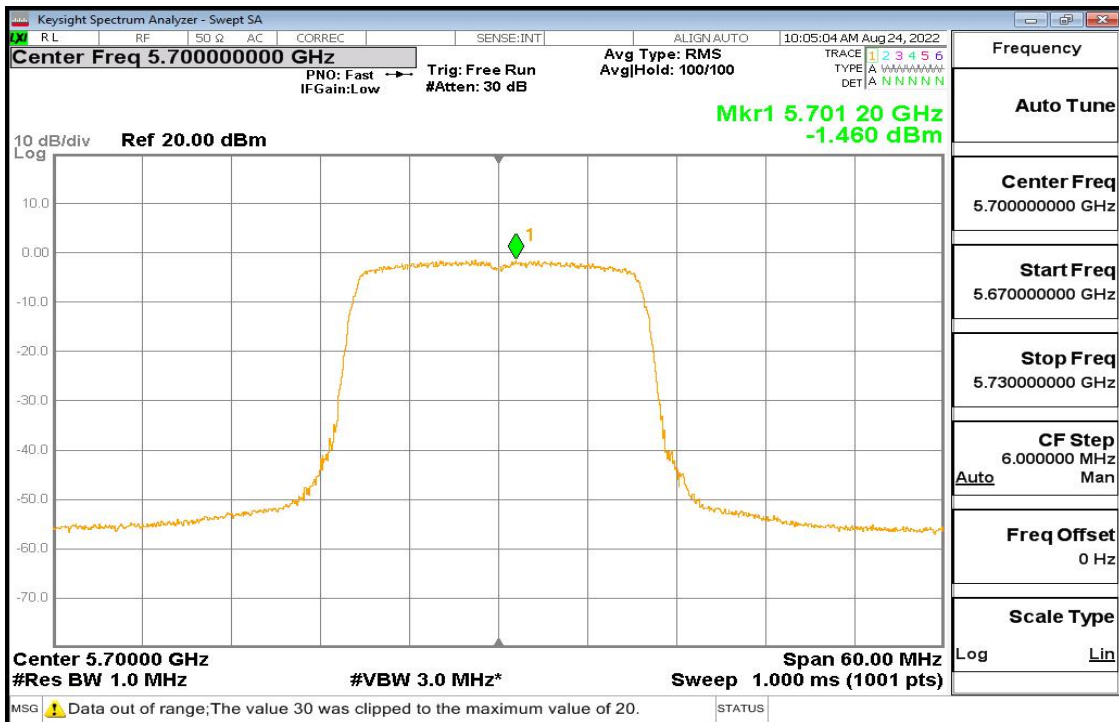


11ax-20 Pic8

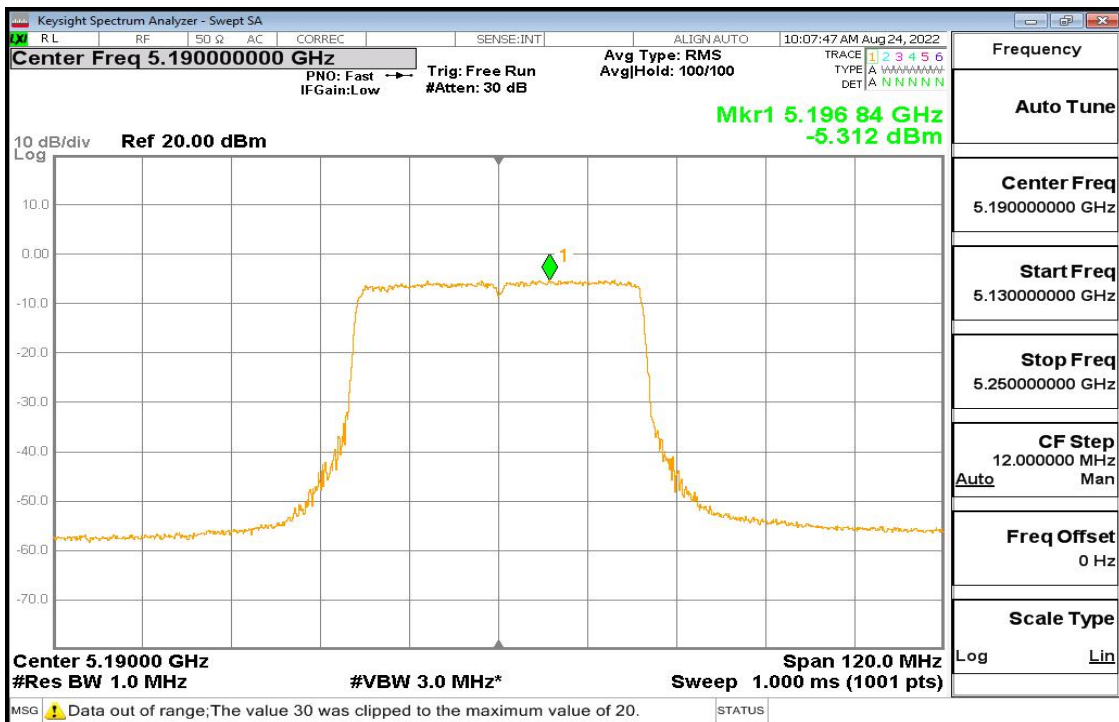
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11ax-20 Pic9

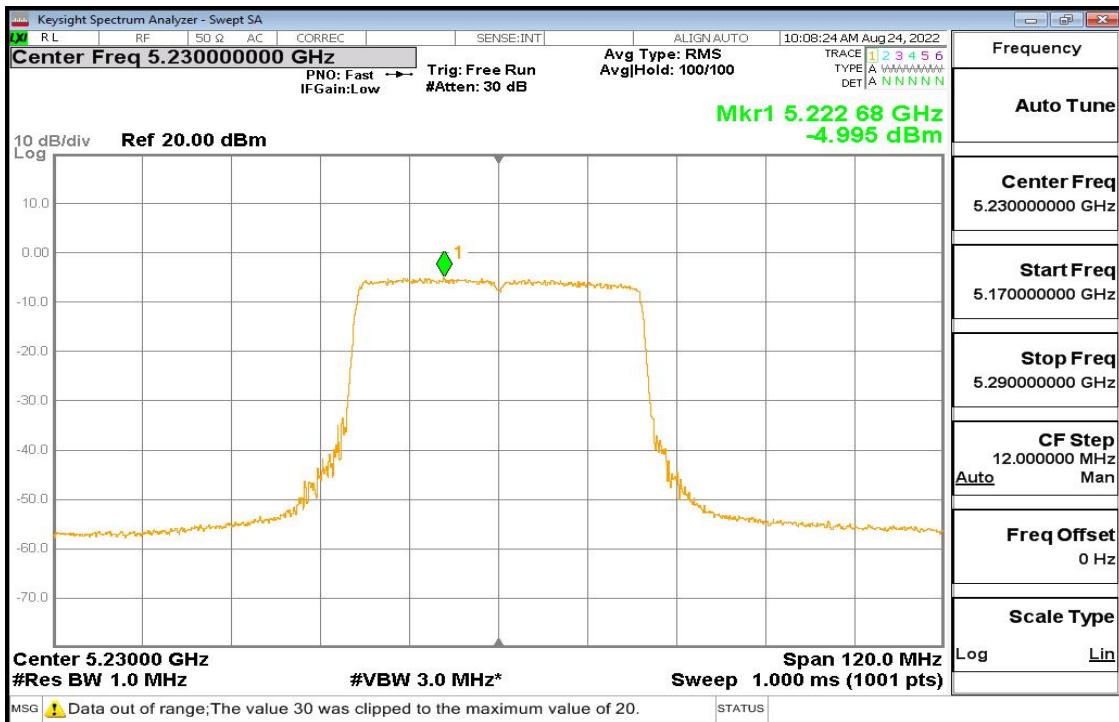


11ax-40 Pic1

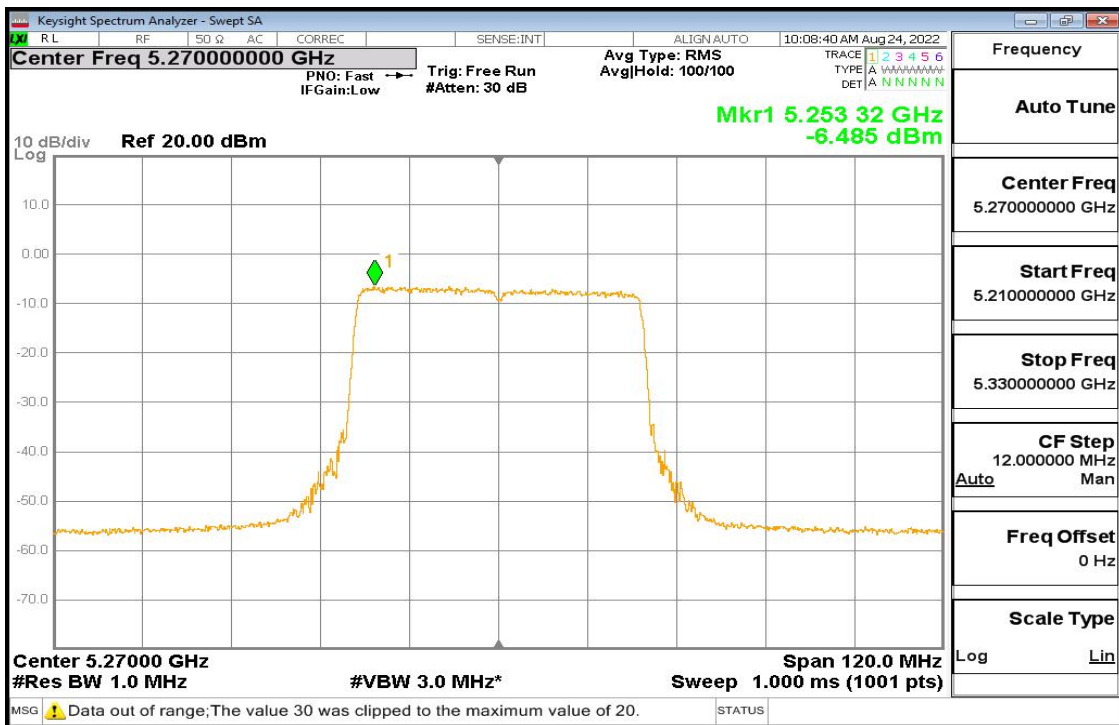
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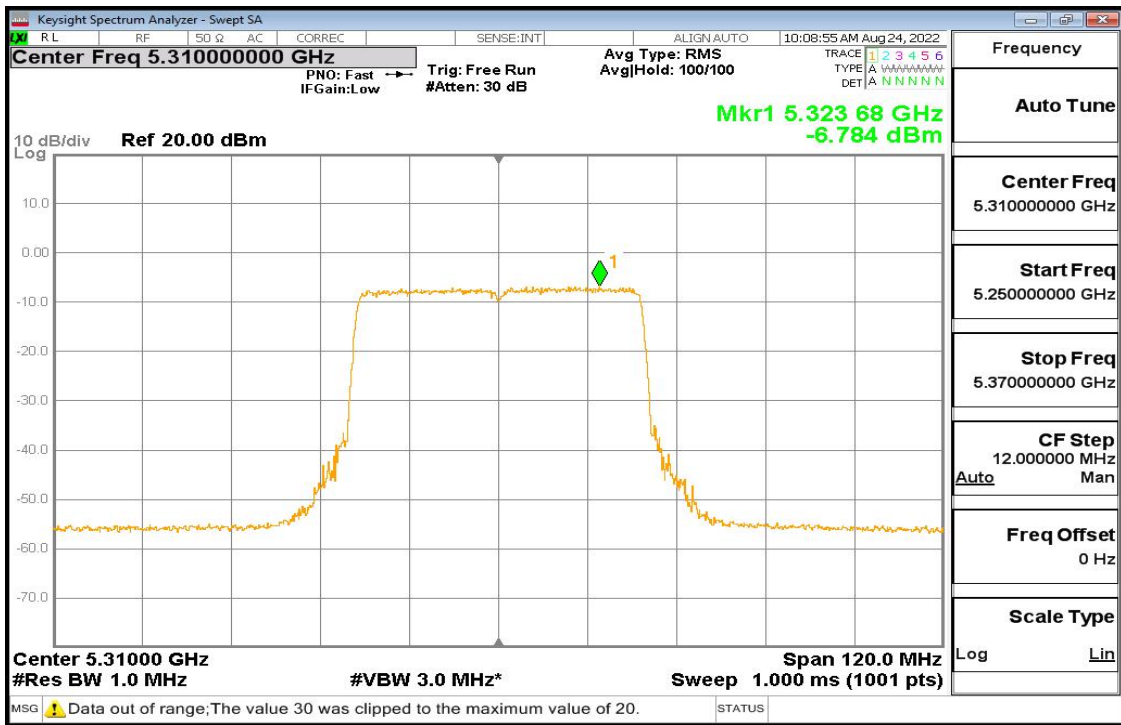
11ax-40 Pic2



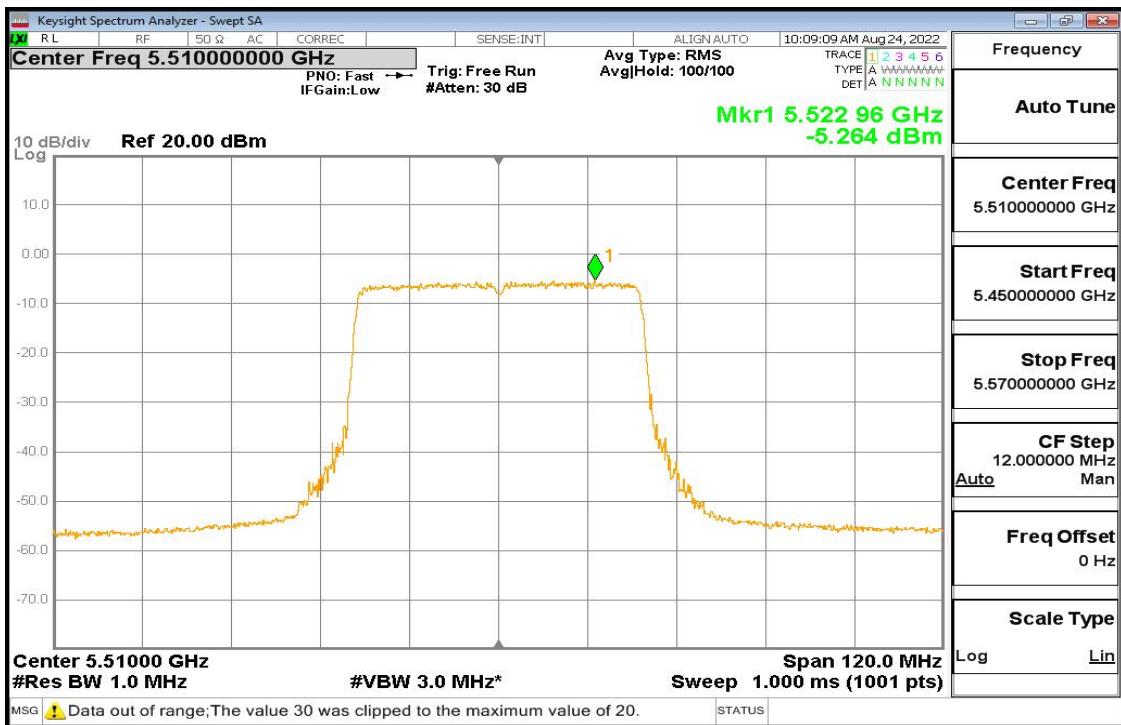
11ax-40 Pic3

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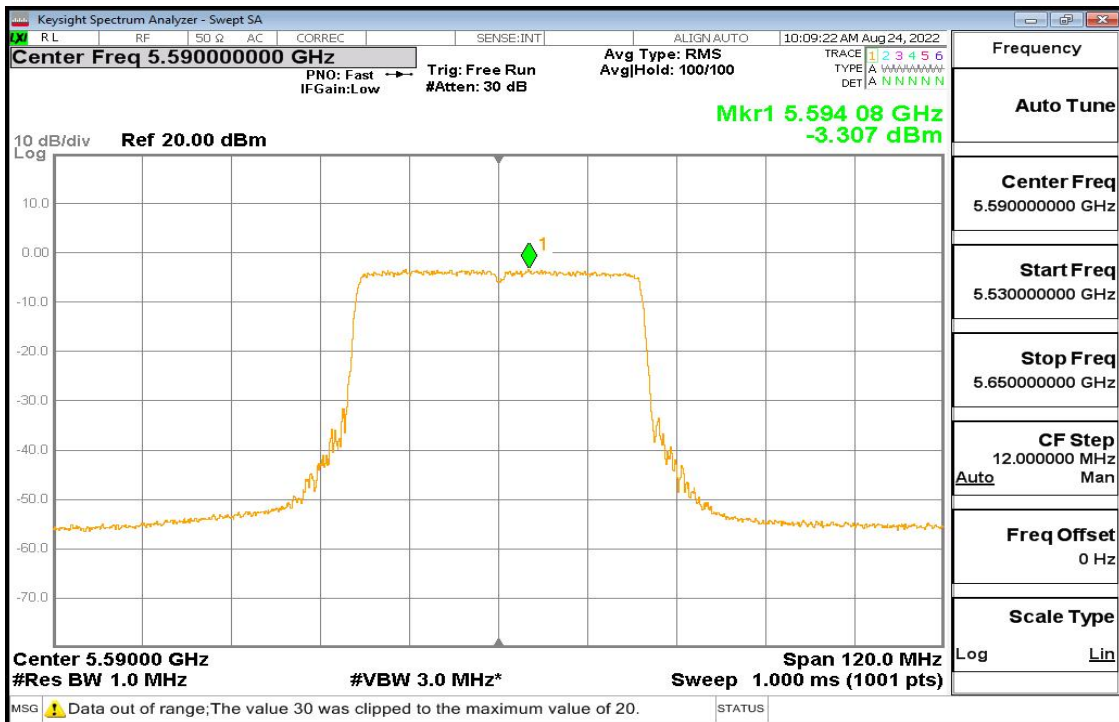
11ax-40 Pic4



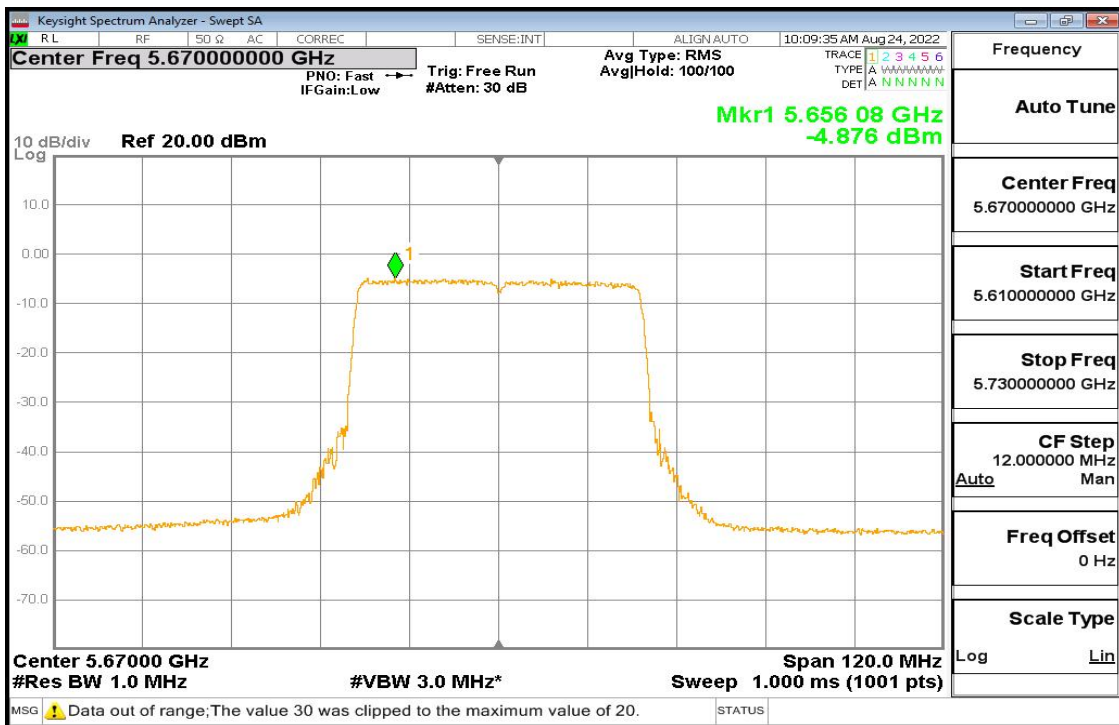
11ax-40 Pic5

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11ax-40 Pic6

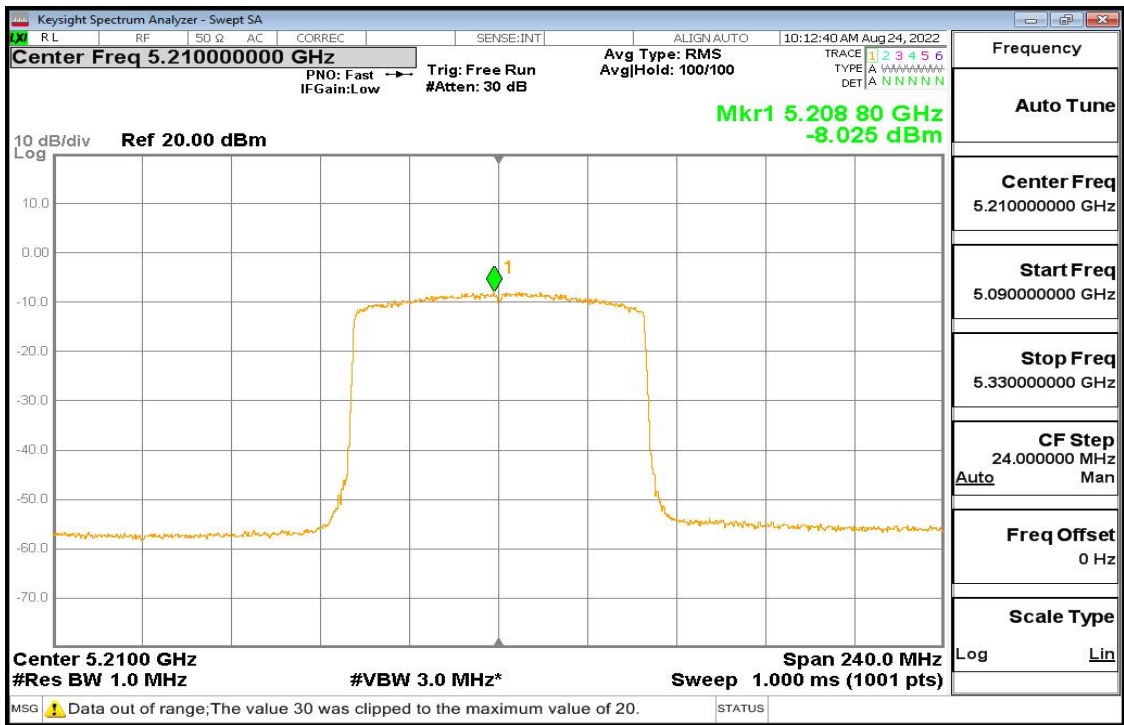


11ax-40 Pic7

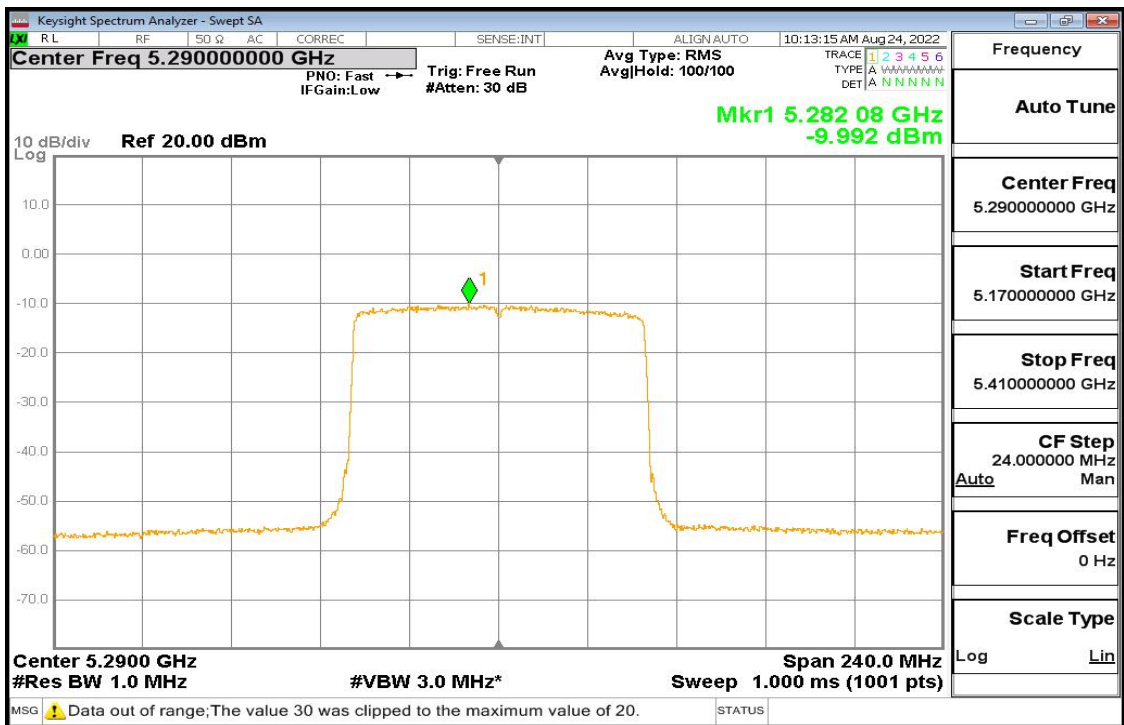
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11ax-80 Pic1

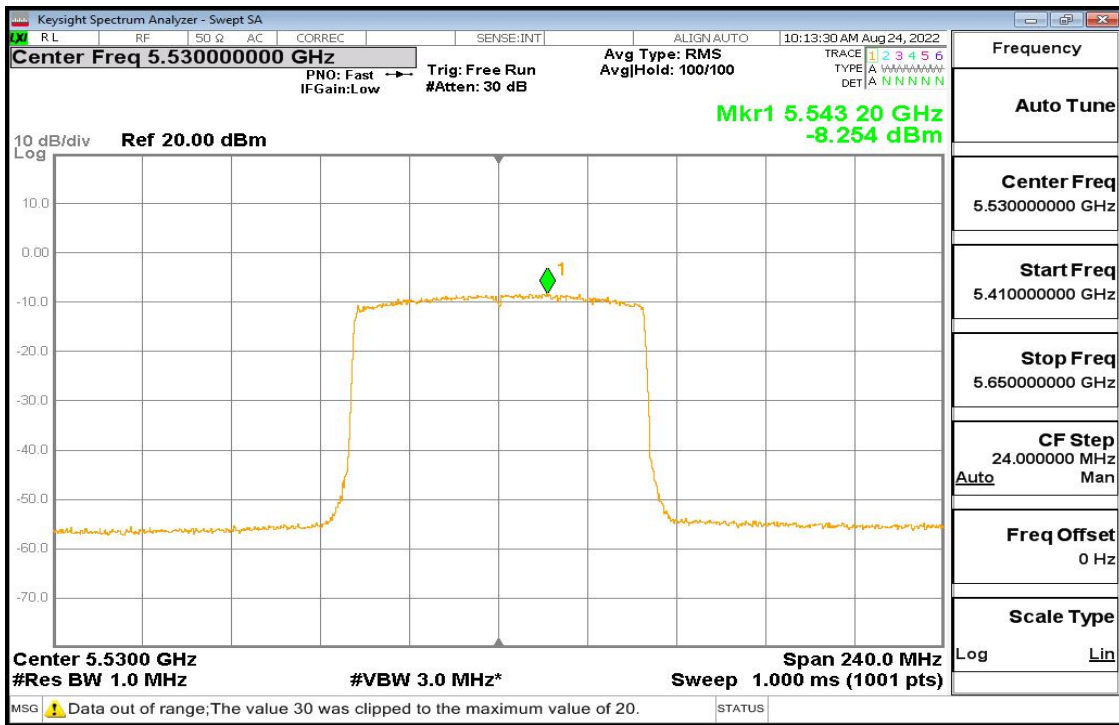


11ax-80 Pic2

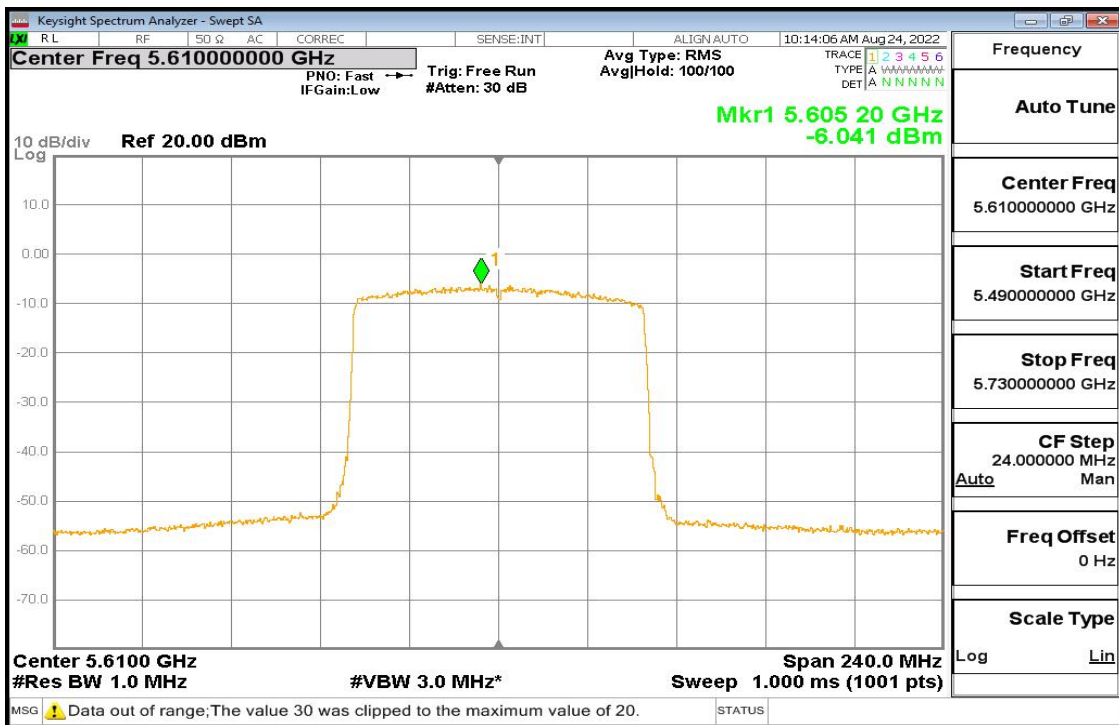
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11ax-80 Pic3

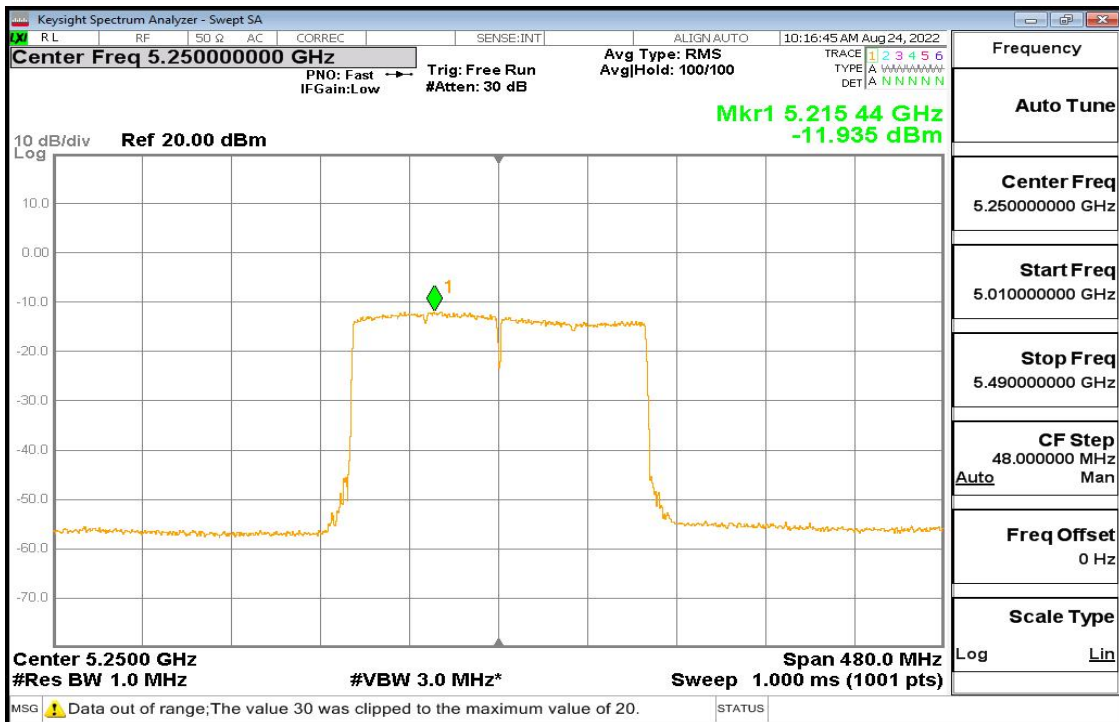


11ax-80 Pic4

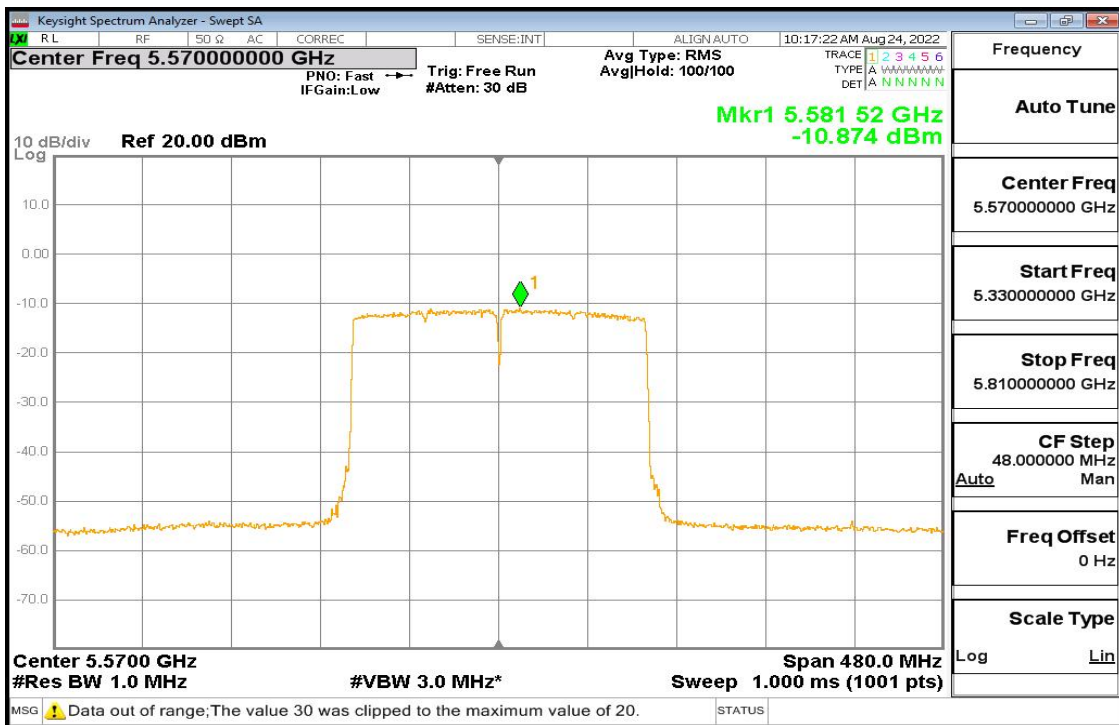
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11ax-160 Pic1



11ax-160 Pic2

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6.5. Band Edges Compliance (Radiated)

SpeciPications:	FCC Part 15.407 (b)
DUT Serial Number:	S2
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

According to FCC Part 15.407(b)(7): 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)). According to FCC Part15.205,

Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

Applicable to	Limit	
FCC Part 15.407b(10), 15.205, 15.209	Field Strength at 3m	
	PK: 74 (dB μV/m)	AV: 54 (dB μV/m)
Applicable to	EIRP Limit	Equivalent Field Strength at 3m

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15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dB μV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	Note	Note

NOTE:For transmitters operating in the 5.725-5.85 GHz band:

Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the alternative limit.

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5

MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu V/m, \text{ where } P \text{ is the eirp (Watts)}$$

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.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at

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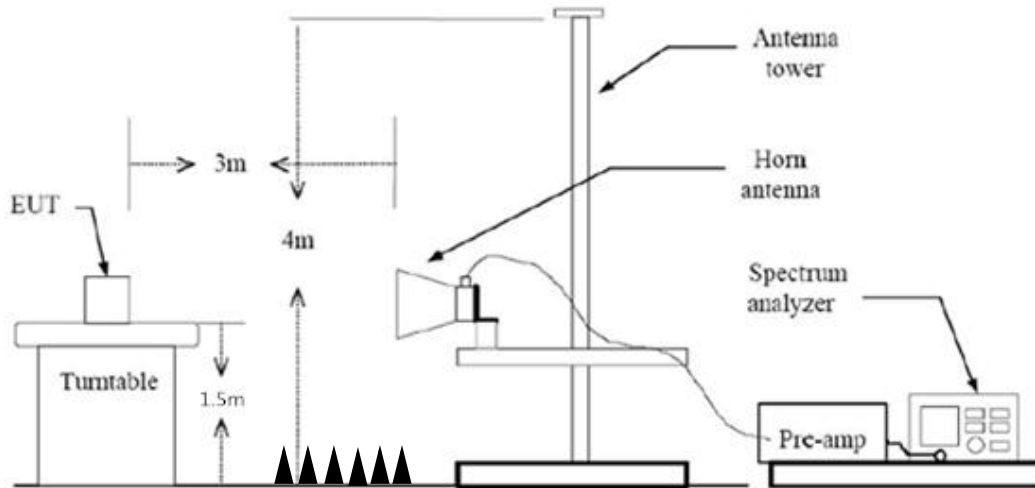
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frequency above 1GHz.

3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $> 98\%$) for Average detection (AV) at frequency above 1GHz.

4. All modes of operation were investigated and the worst-case emissions (802.11a-ant0, 802.11n/ac/ax-mimo mode) are reported.

Test block diagram:



Test Result:

802.11a mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11a	36	Pic.1	Pass
	48	Pic.2	Pass
	52	Pic.3	Pass
	64	Pic.4	Pass
	100	Pic.5	Pass
	140	Pic.6	Pass

802.11n mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11n (20M)	36	Pic.7	Pass
	48	Pic.8	Pass
	52	Pic.9	Pass
	64	Pic.10	Pass
	100	Pic.11	Pass
	140	Pic.12	Pass

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mode	Channel	Test Results(dBuV/m)	Conclusion
802.11n (40M)	38	Pic.13	Pass
	46	Pic.14	Pass
	54	Pic.15	Pass
	62	Pic.16	Pass
	102	Pic.17	Pass
	134	Pic.18	Pass

802.11ac mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11ac (80M)	42	Pic.19	Pass
	58	Pic.20	Pass
	106	Pic.21	Pass
	122	Pic.22	Pass

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11ac (160M)	40	Pic.23	Pass
	114	Pic.24	Pass

802.11ax mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11ax (20M)	36	Pic.25	Pass
	48	Pic.26	Pass
	52	Pic.27	Pass
	64	Pic.28	Pass
	100	Pic.29	Pass
	140	Pic.30	Pass

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11ax (40M)	38	Pic.31	Pass
	46	Pic.32	Pass
	54	Pic.33	Pass
	62	Pic.34	Pass
	102	Pic.35	Pass

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	134	Pic.36	Pass
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mode	Channel	Test Results(dBuV/m)	Conclusion
802.11ax (80M)	42	Pic.37	Pass
	58	Pic.38	Pass
	106	Pic.39	Pass
	122	Pic.40	Pass

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11ax	40	Pic.41	Pass
(160M)	114	Pic.42	Pass

Note:

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.

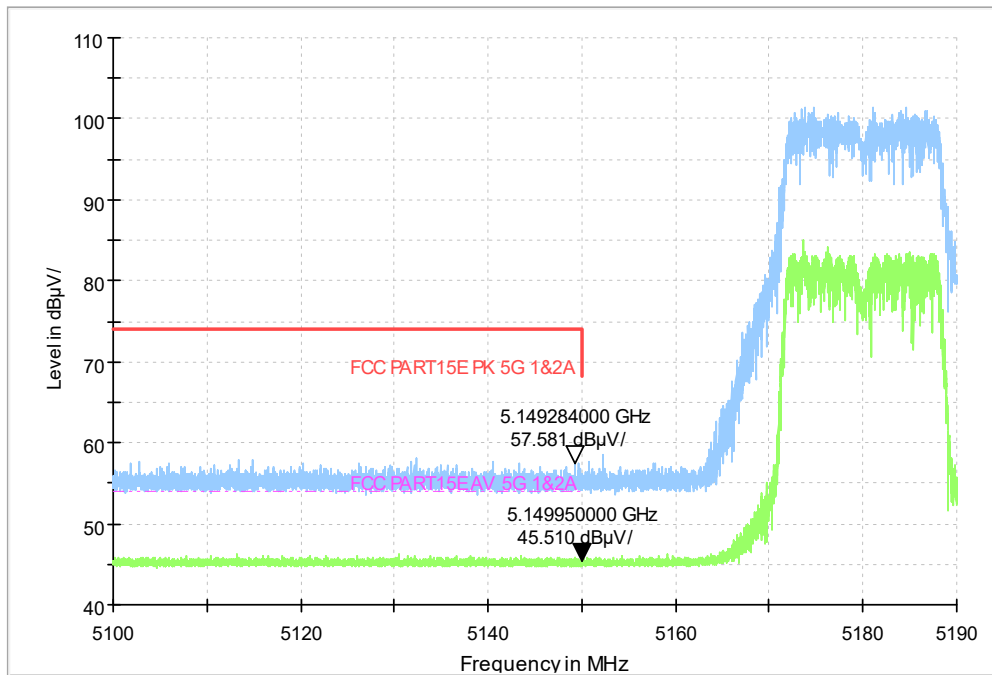
Conclusion: PASS

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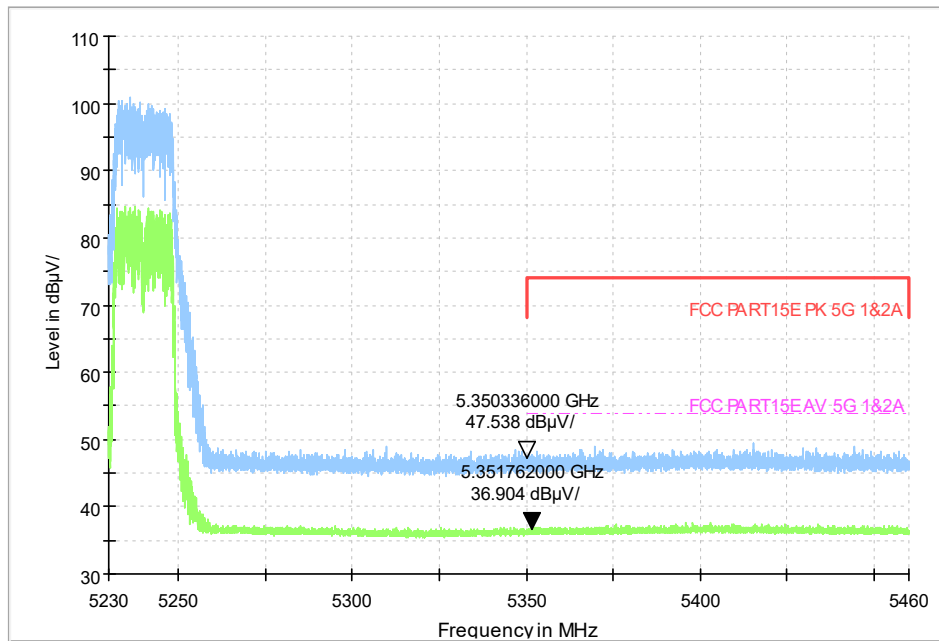
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Test Picture as below:



Pic.1 Frequency Band Edge: Ch36,11a

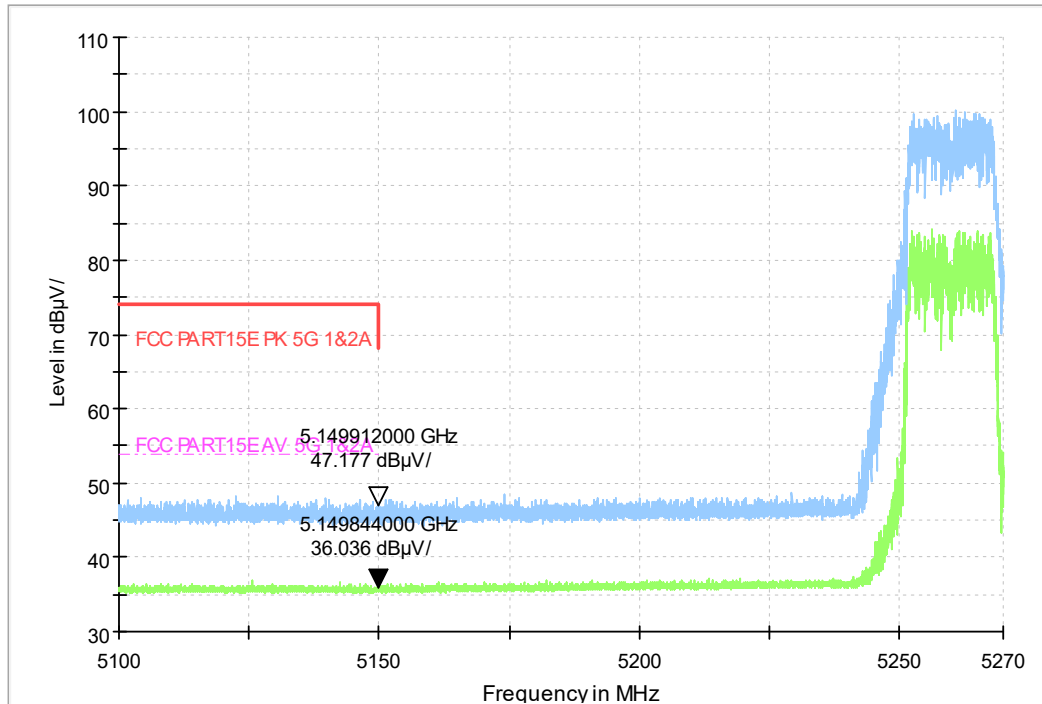


Pic.2 Frequency Band Edge: Ch48,11a

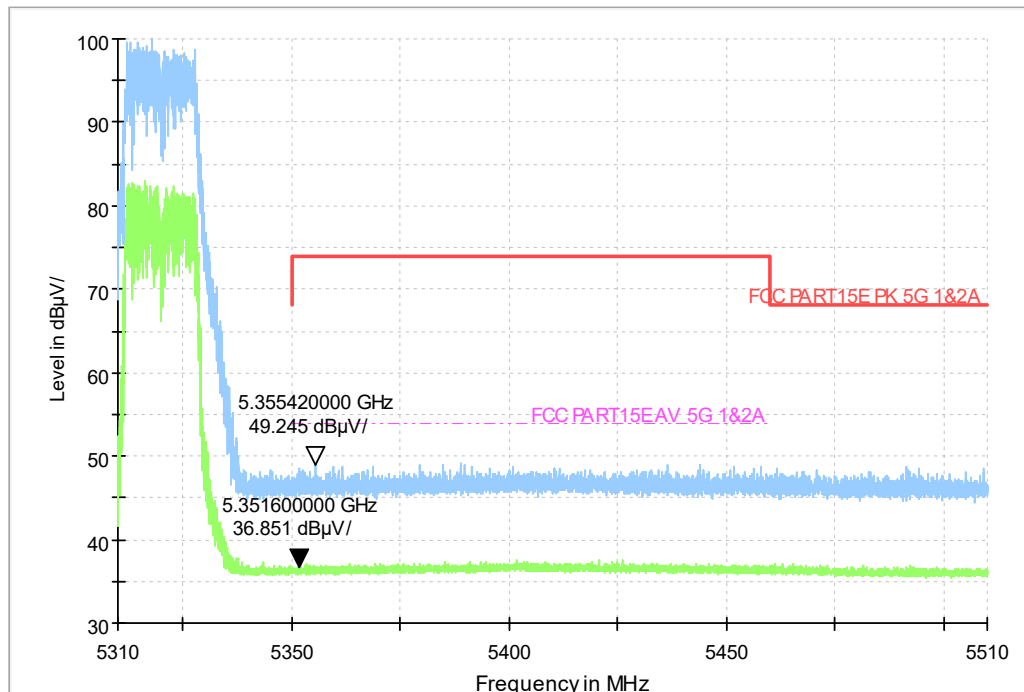
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Pic.3 Frequency Band Edge: Ch52, 11a 20M

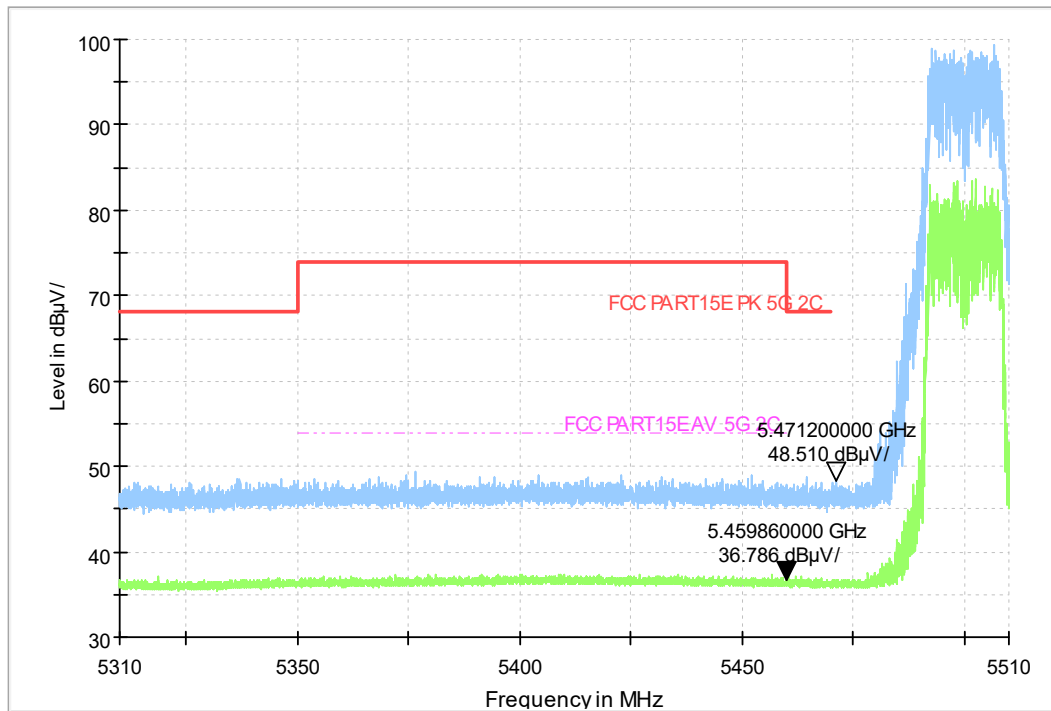


Pic.4 Frequency Band Edge: Ch64, 11a 20M

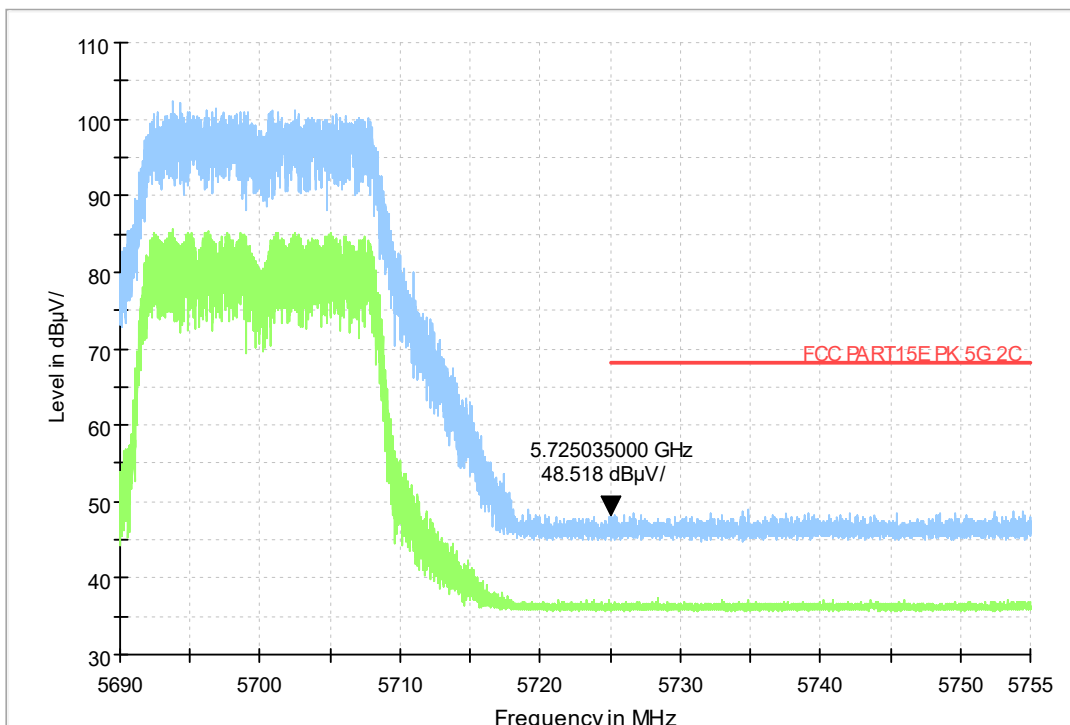
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Pic.5 Frequency Band Edge: Ch100, 11a 20M

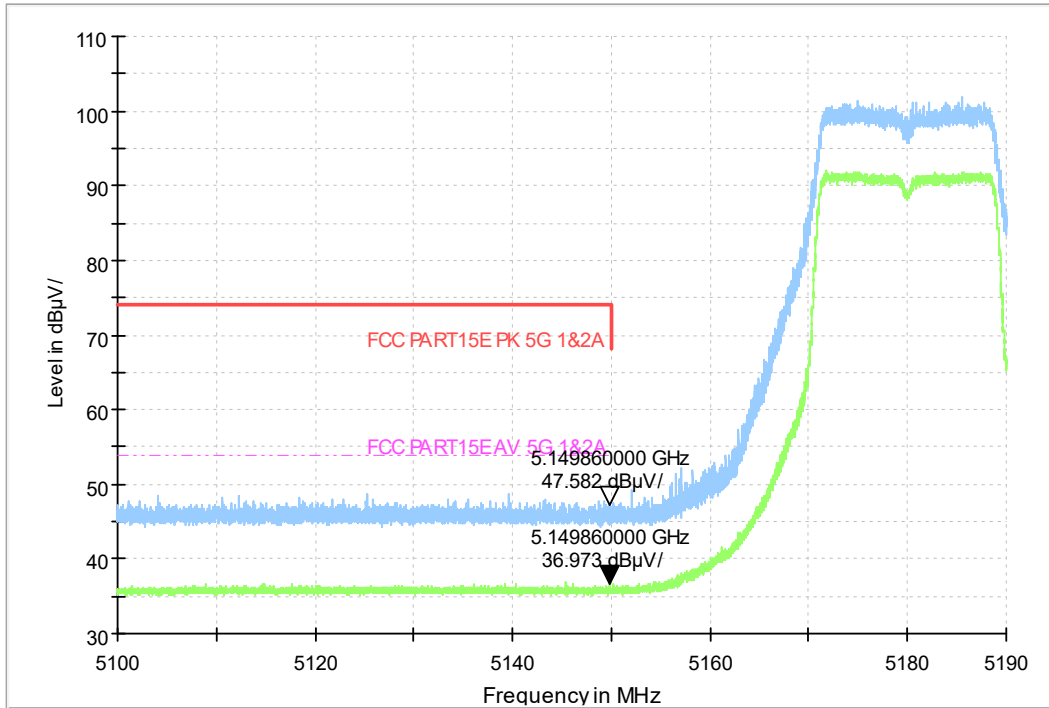


Pic.6 Frequency Band Edge: Ch140, 11a 20M

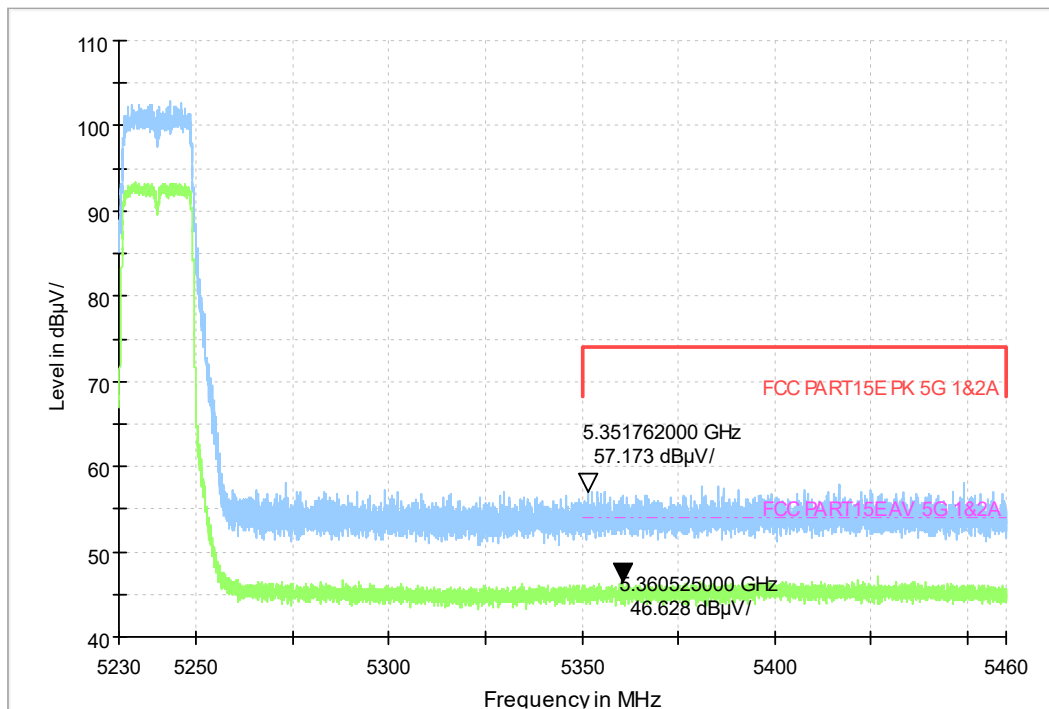
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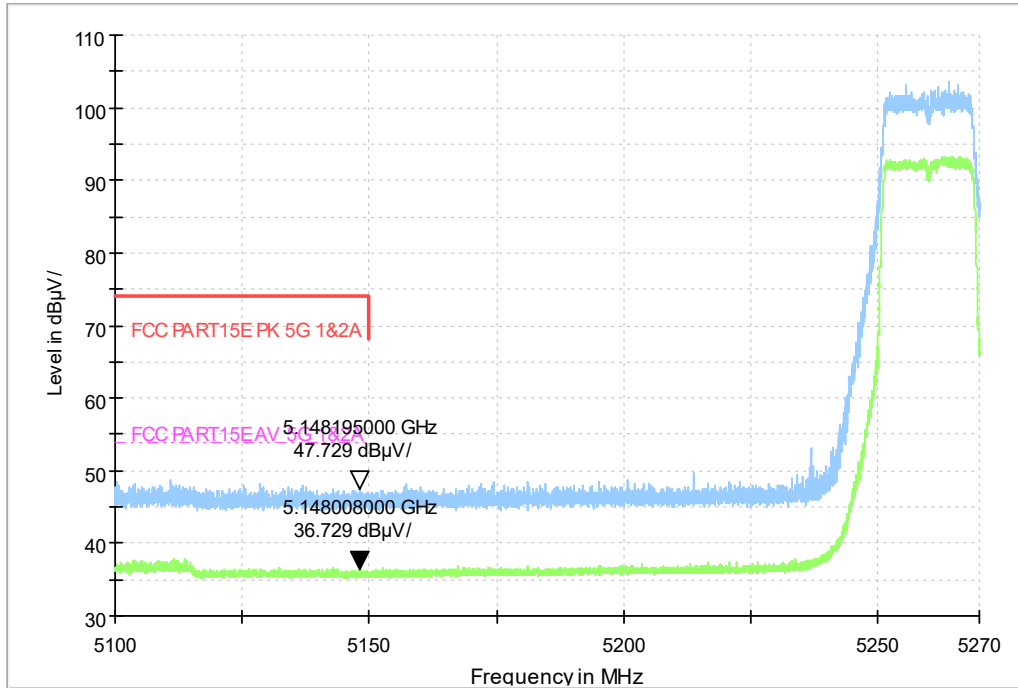
Pic.7 Frequency Band Edge: Ch36, 11n 20M



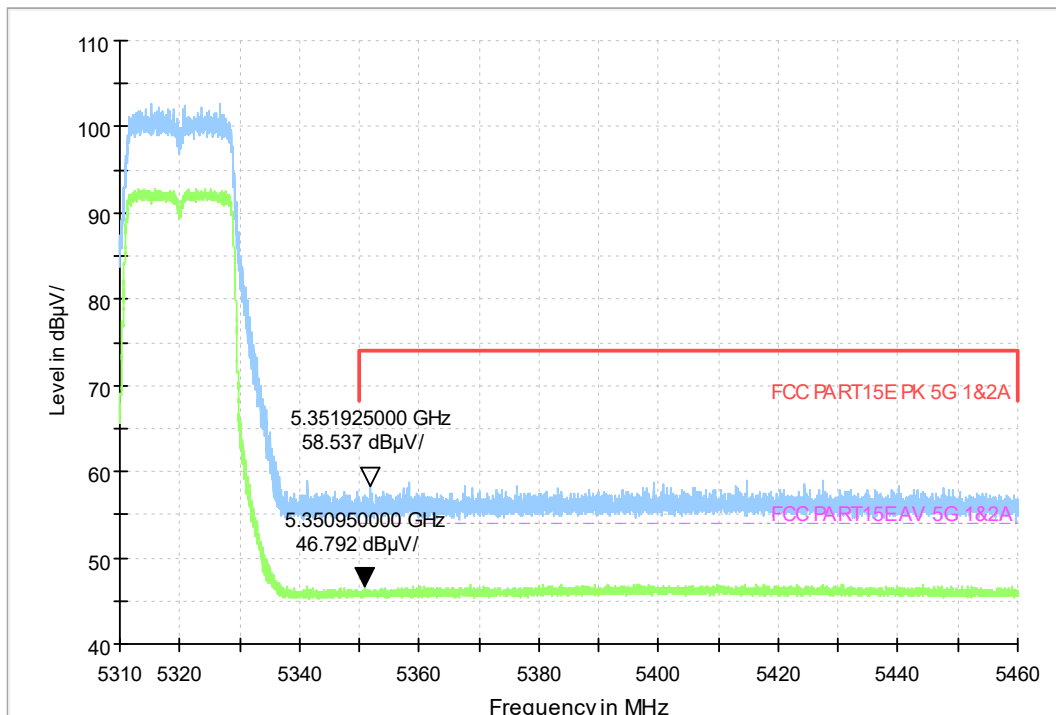
Pic.8 Frequency Band Edge: Ch48, 11n 20M

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Pic.9 Frequency Band Edge: Ch52, 11n 20M

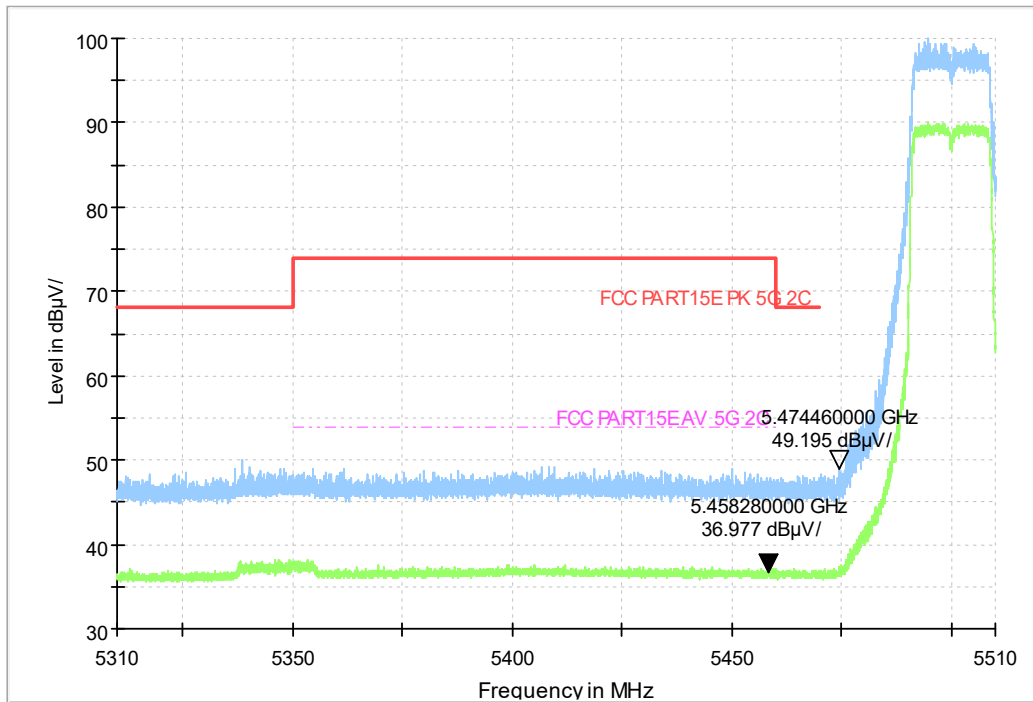


Pic.10 Frequency Band Edge: Ch64, 11n 20M

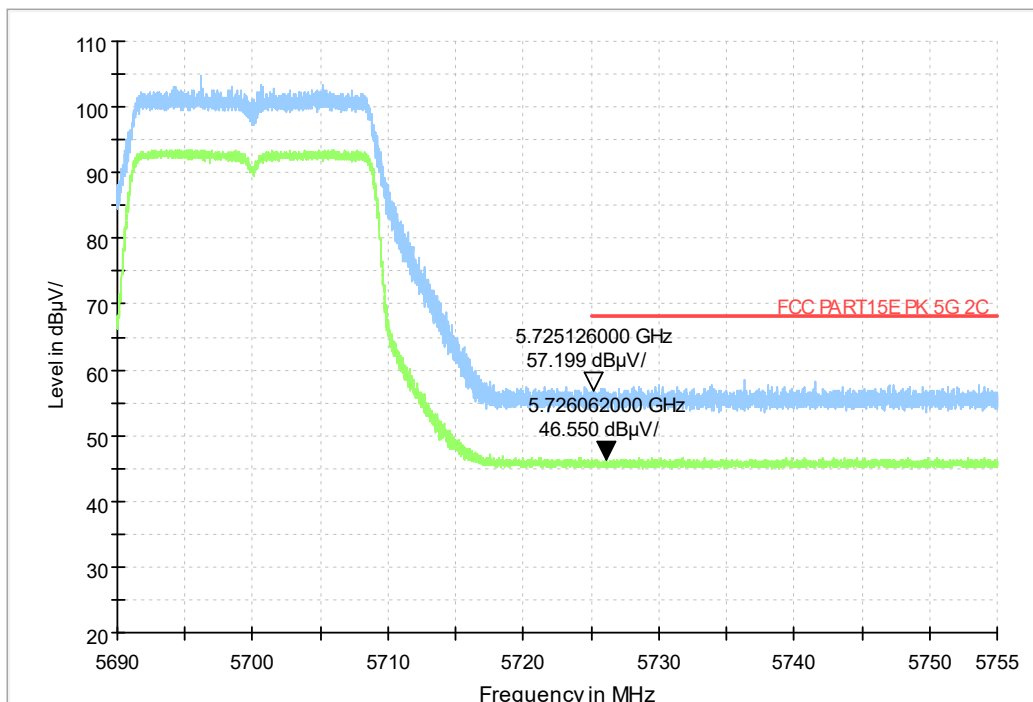
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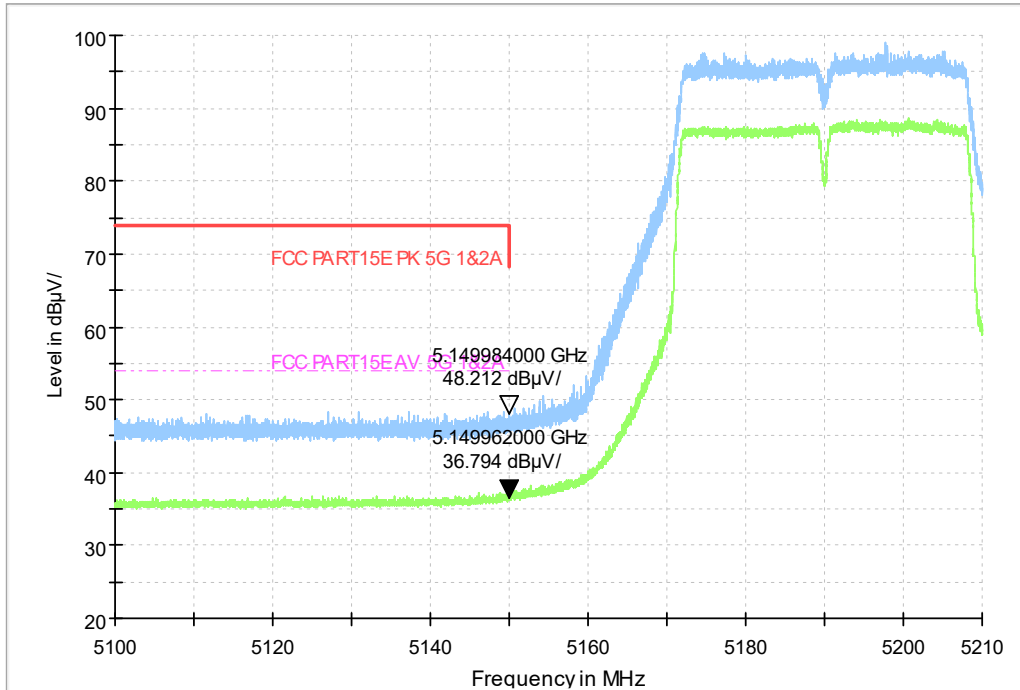
FAX: 0086-23-88608777



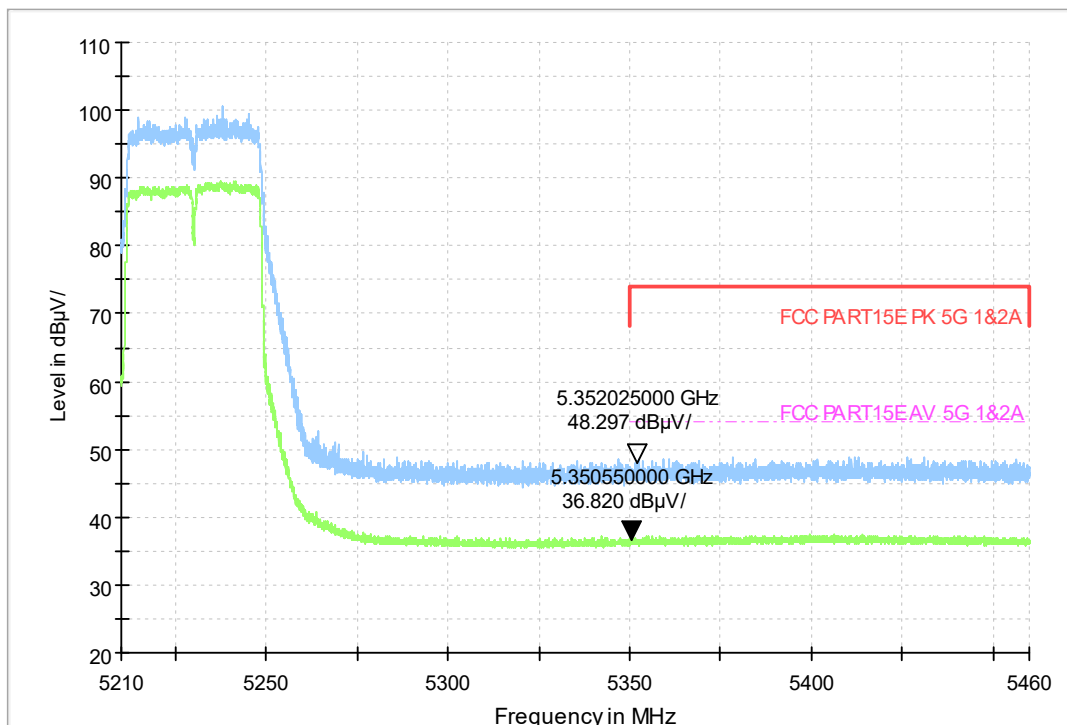
Pic.11 Frequency Band Edge: Ch100, 11n 20M



Pic.12 Frequency Band Edge: Ch140, 11n 20M



Pic.13 Frequency Band Edge: Ch38, 11n 40M

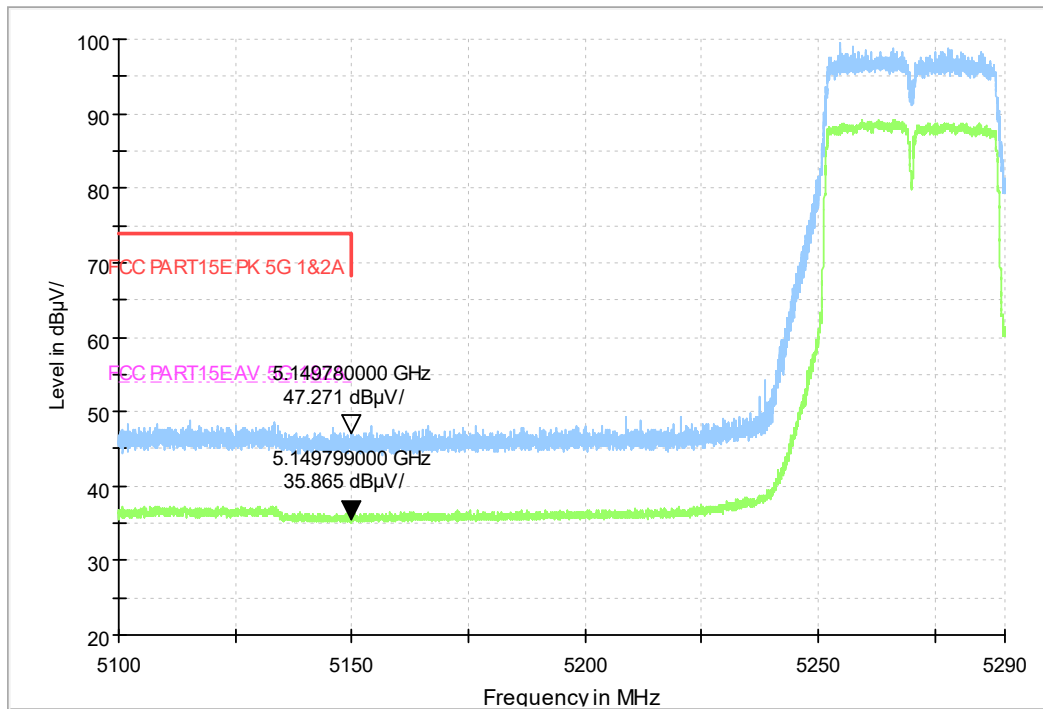


Pic.14 Frequency Band Edge: Ch46, 11n 40M

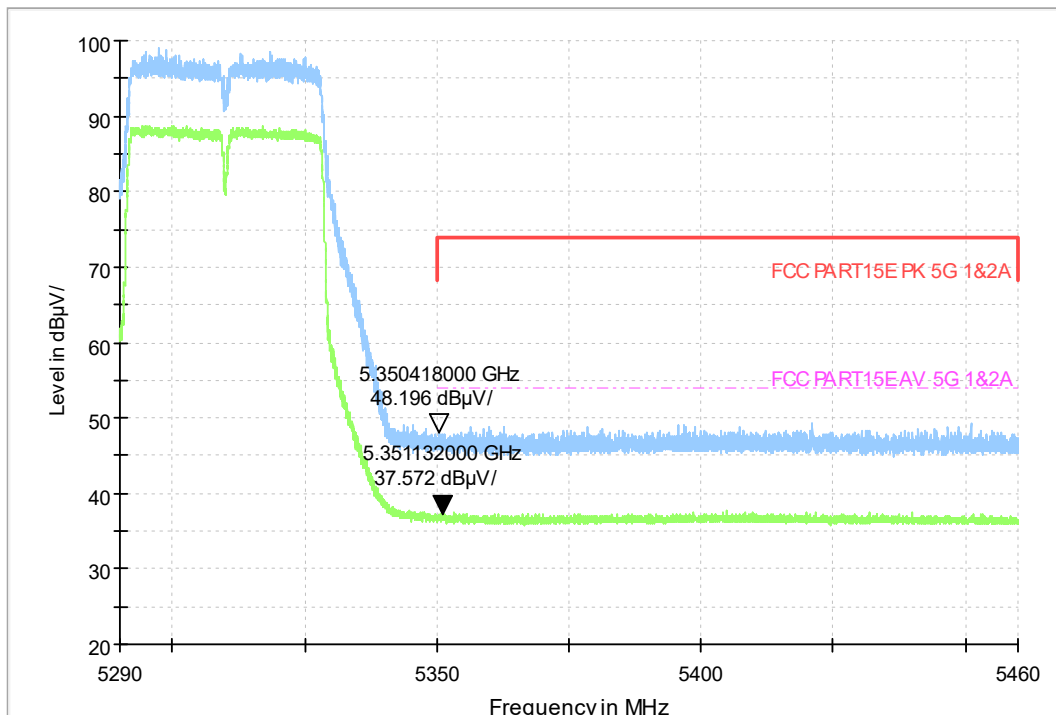
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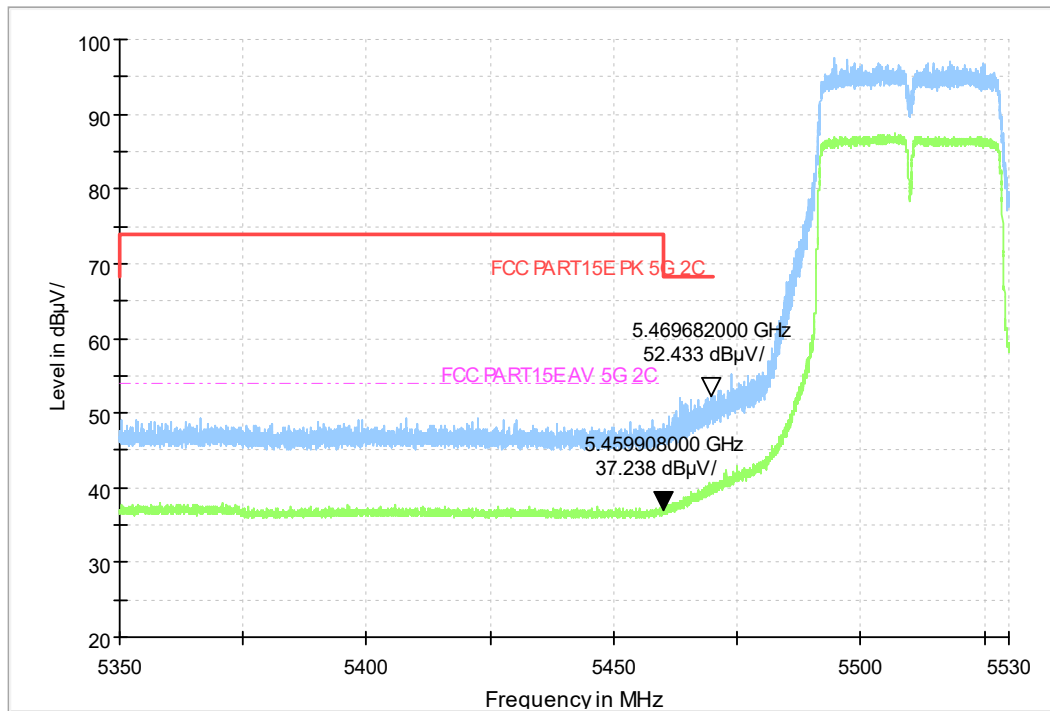
Pic.15 Frequency Band Edge: Ch54, 11n 40M



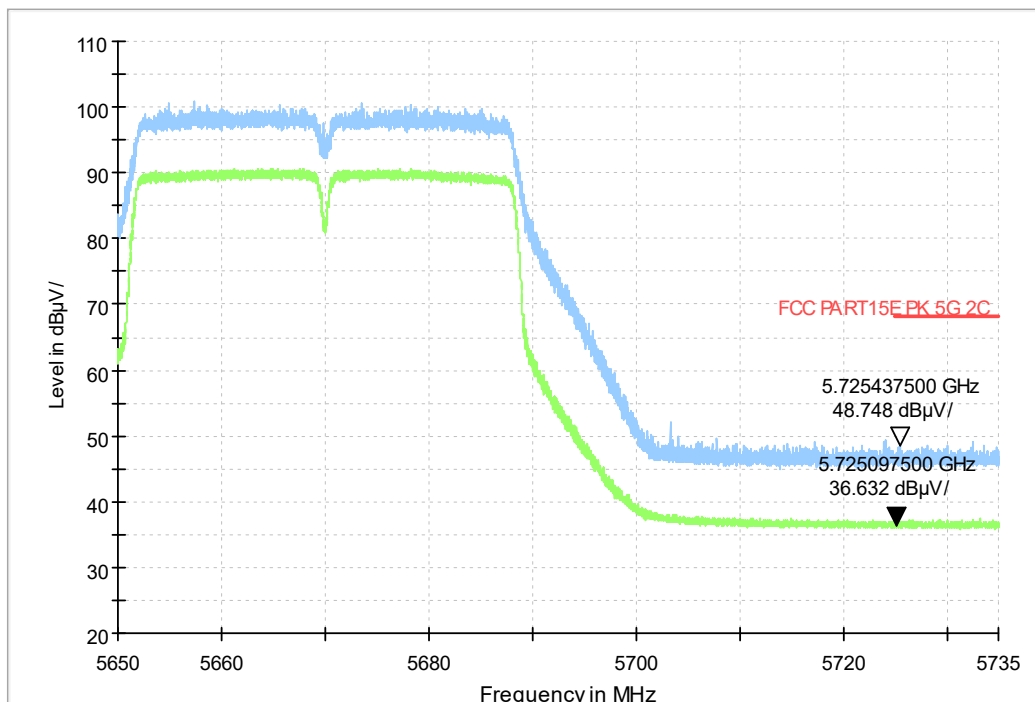
Pic.16 Frequency Band Edge: Ch62, 11n 40M

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Pic.17 Frequency Band Edge: Ch102, 11n 40M



Pic.18 Frequency Band Edge: Ch134, 11n 40M

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