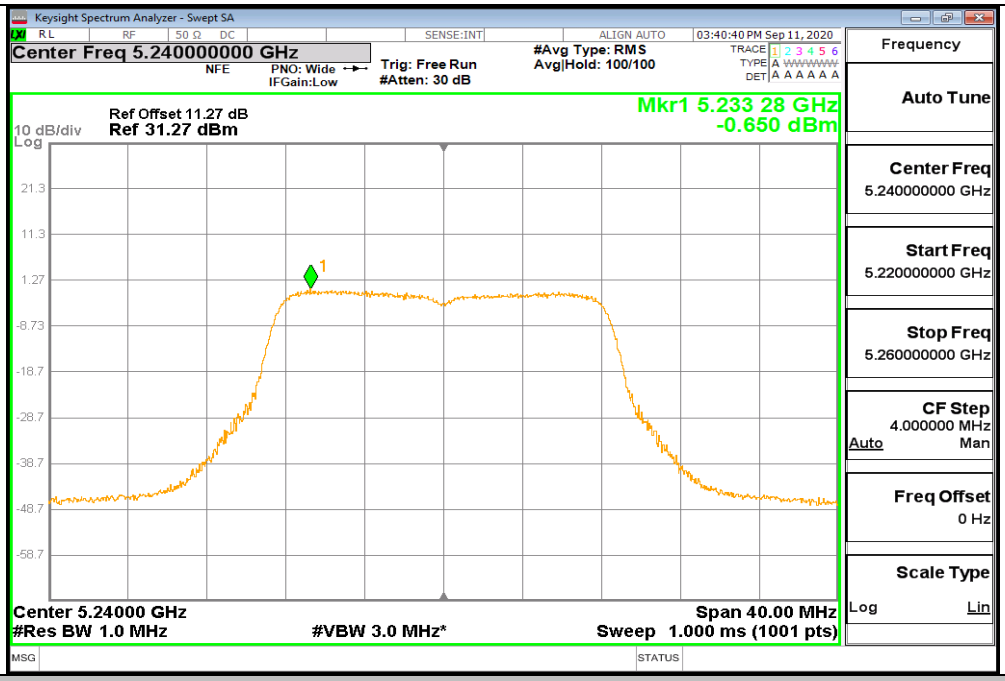
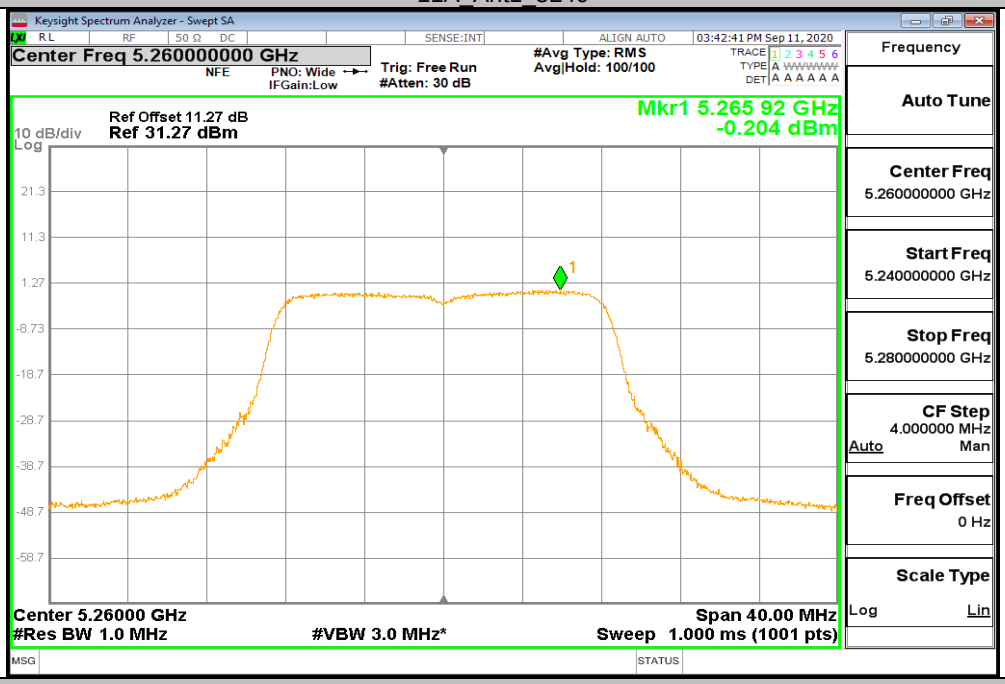
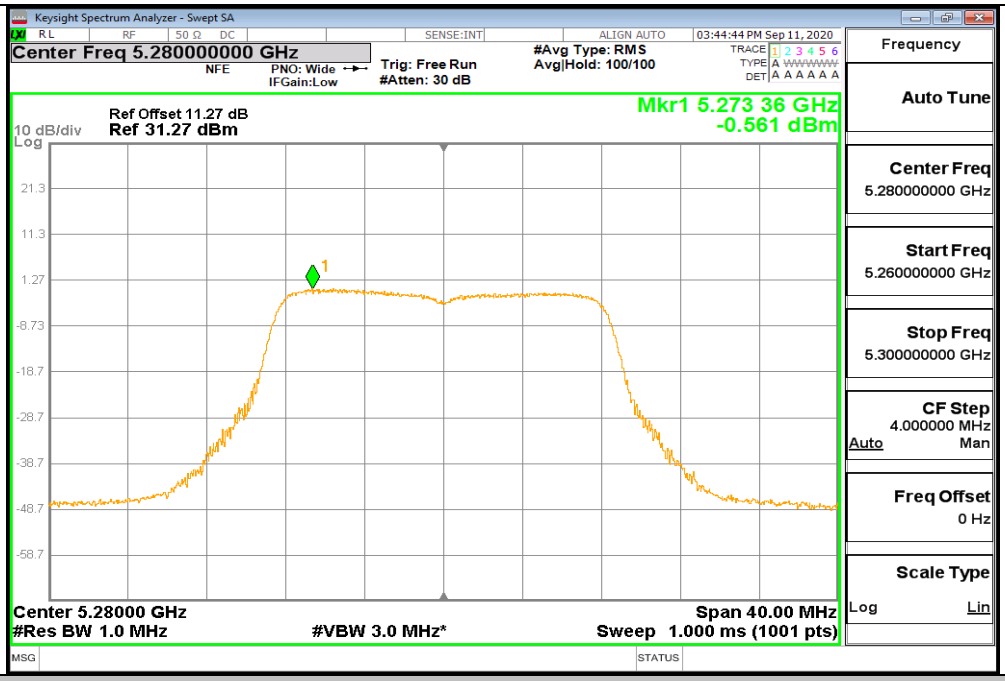


11A_Ant1_5240



11A_Ant1_5260



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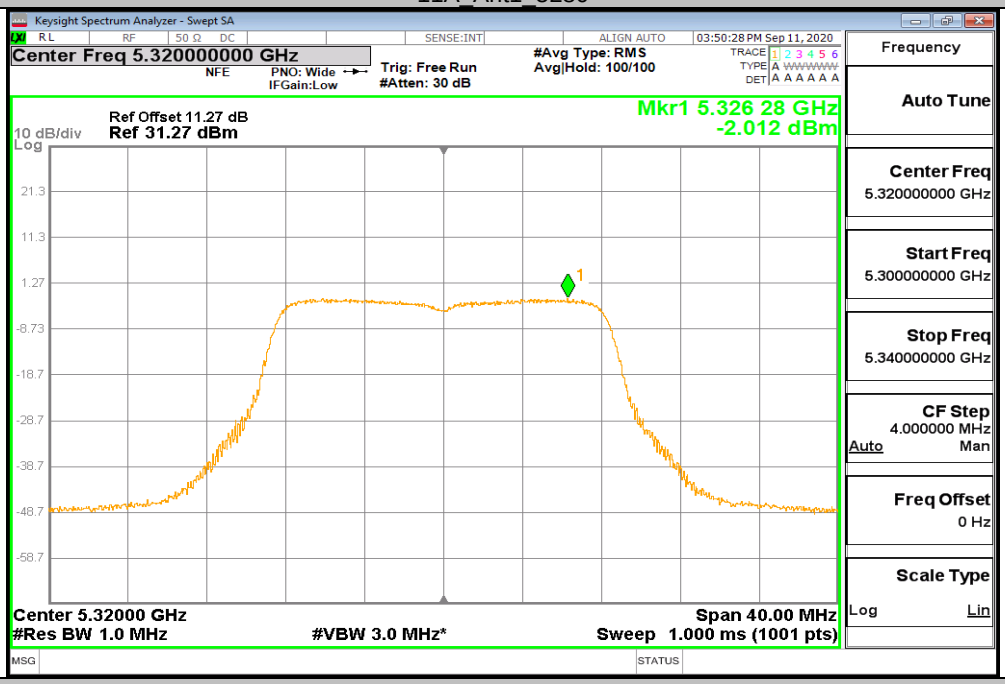
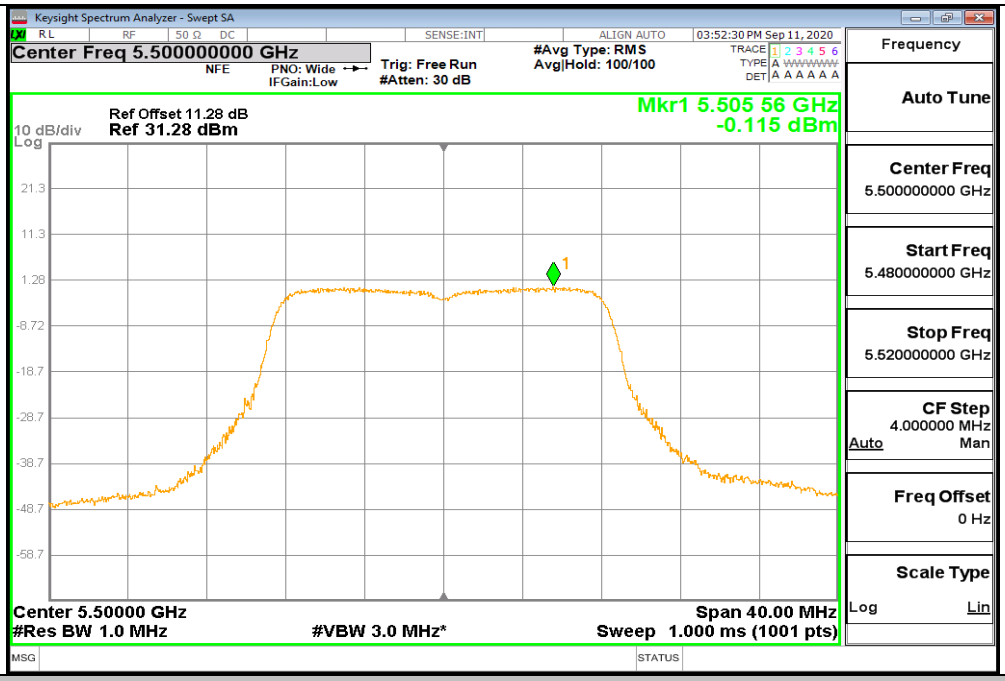
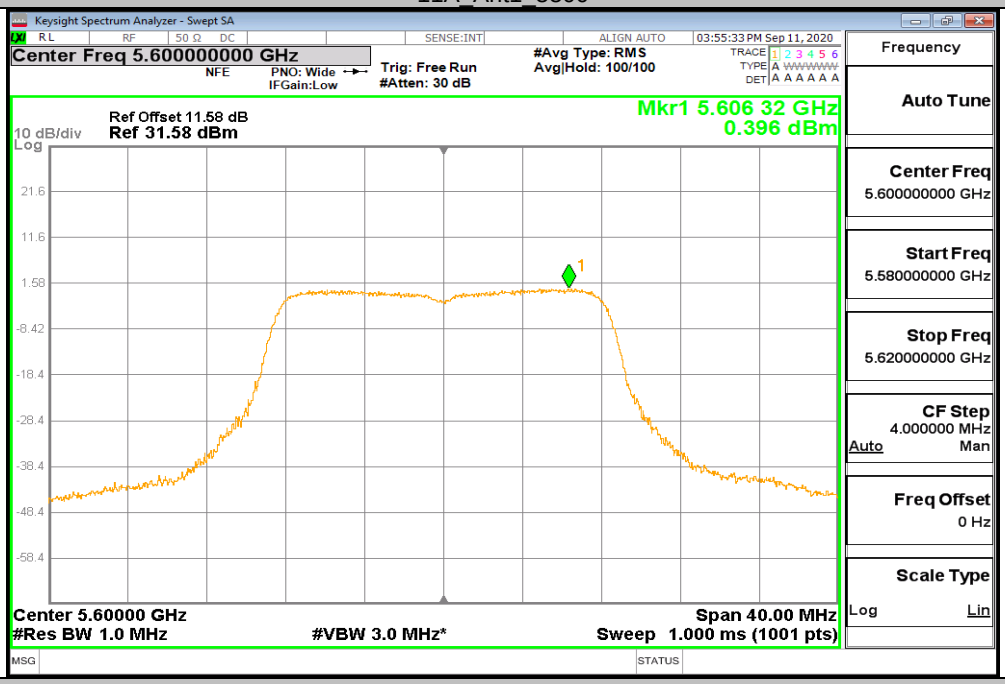


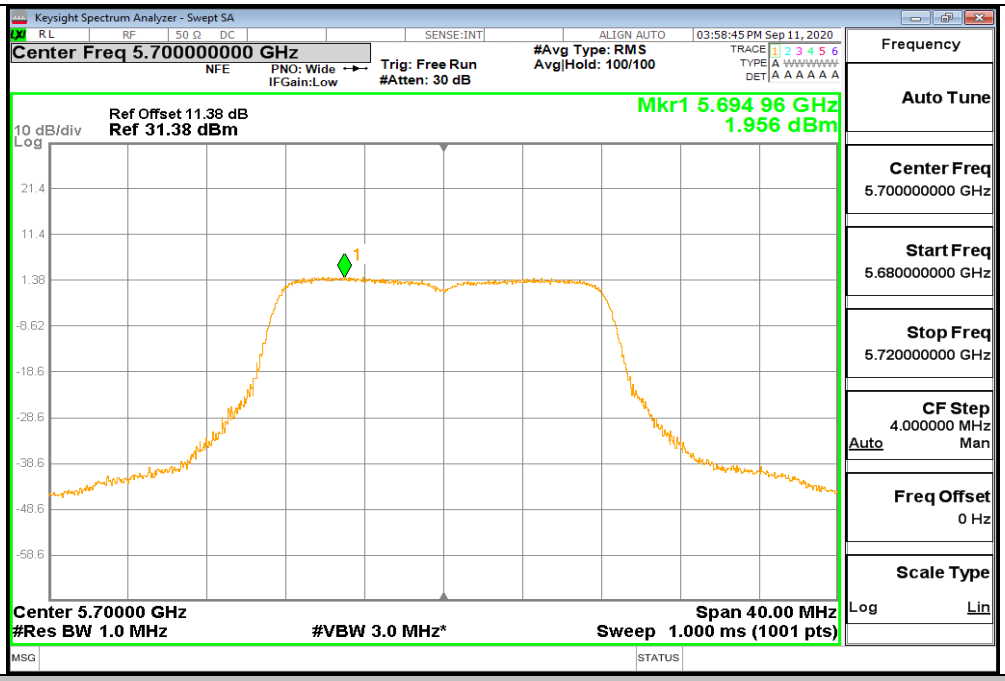
11A_Ant1_5320



11A_Ant1_5500



11A_Ant1_5600



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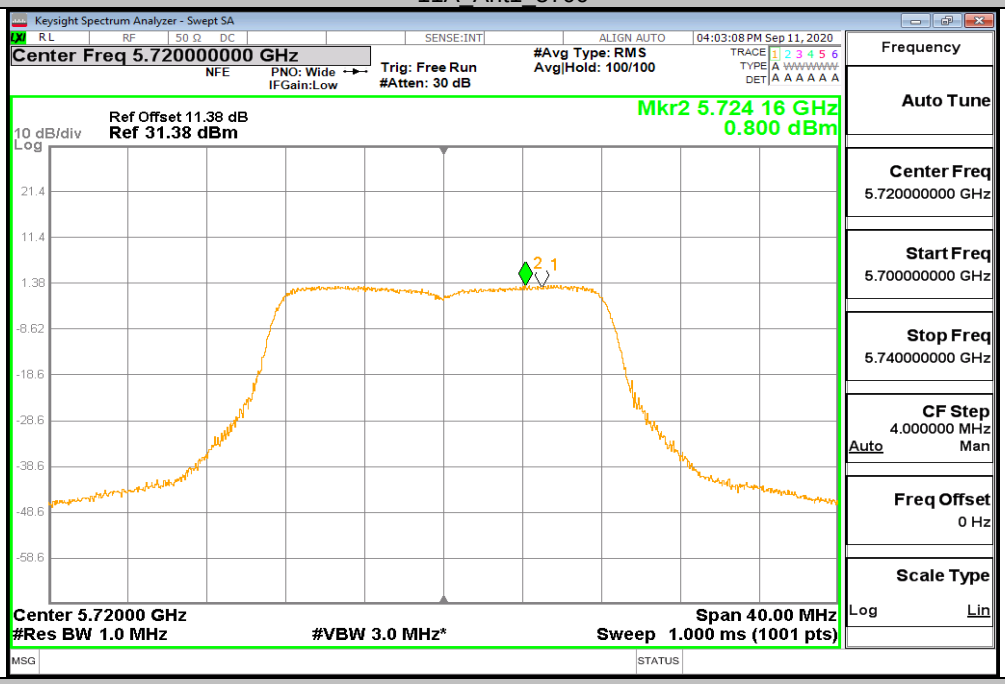
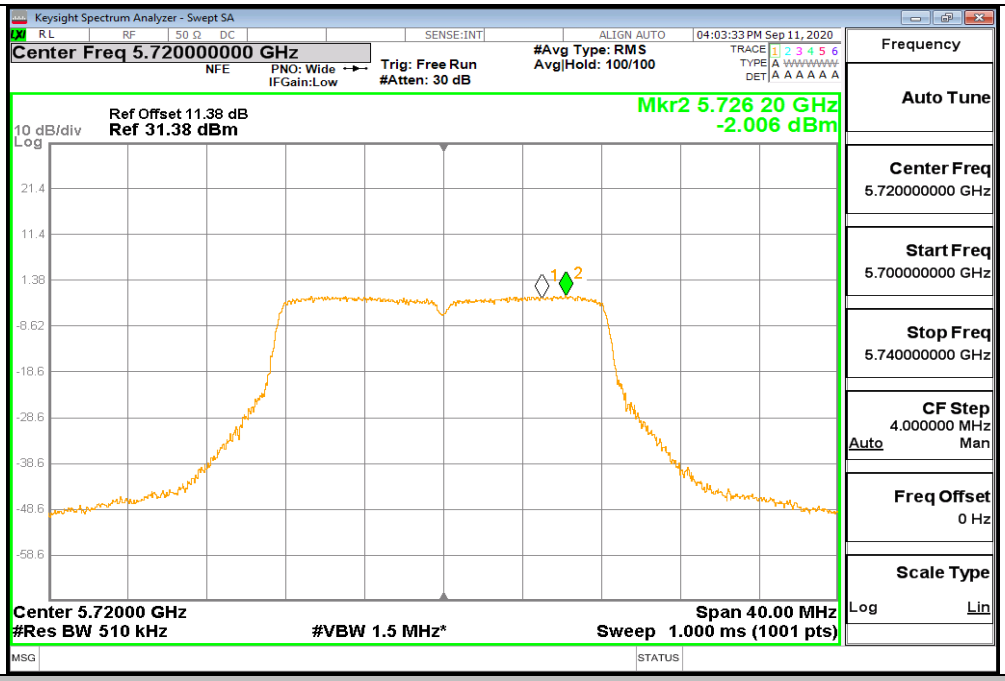
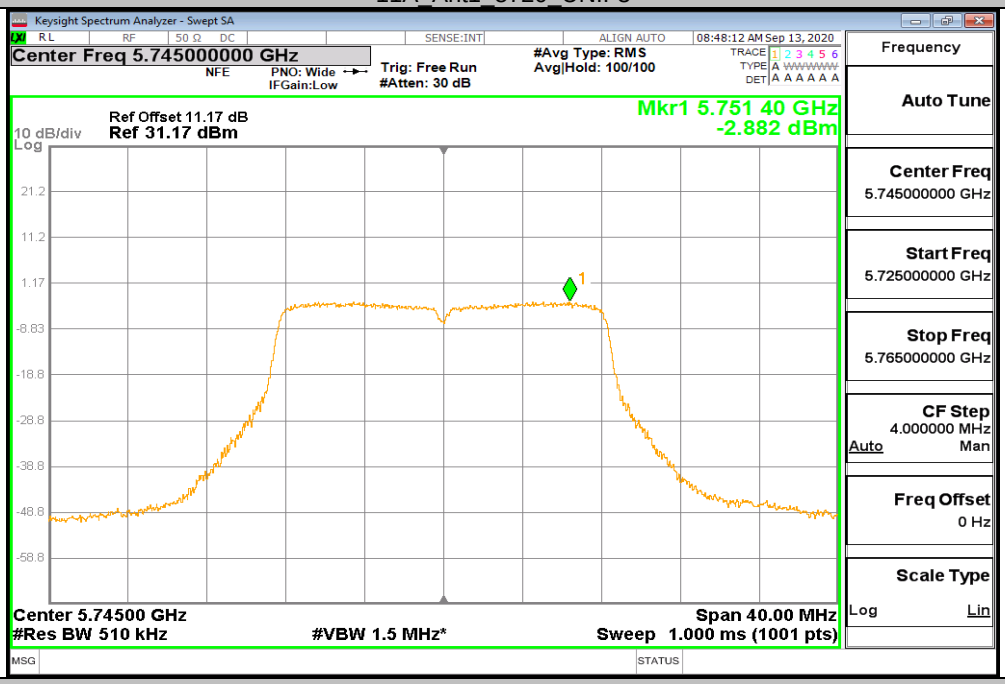


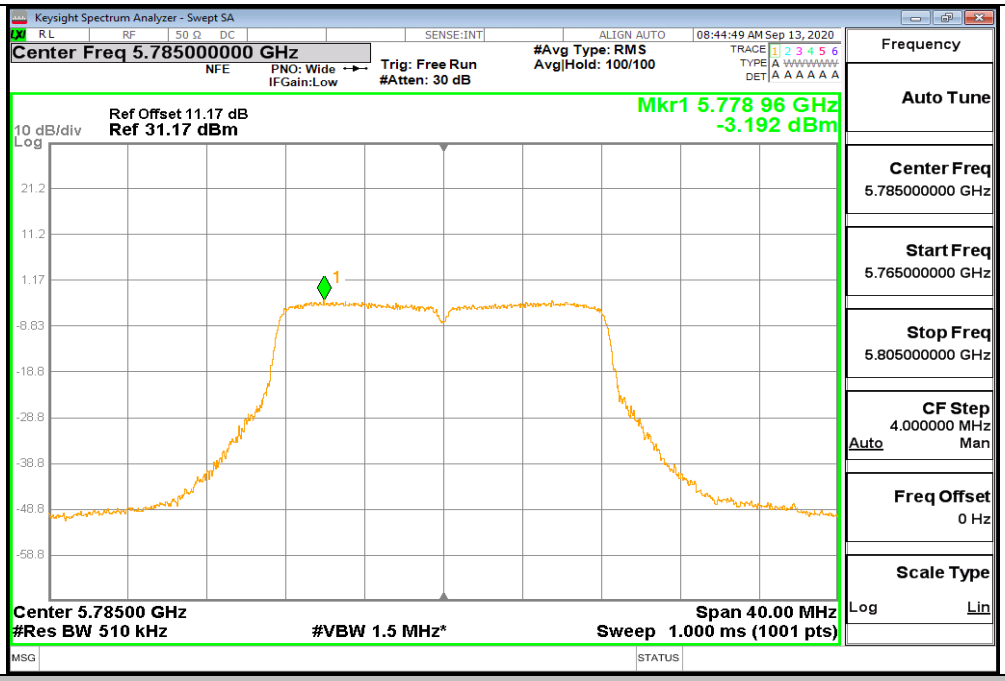
11A_Ant1_5720_UNII-2C



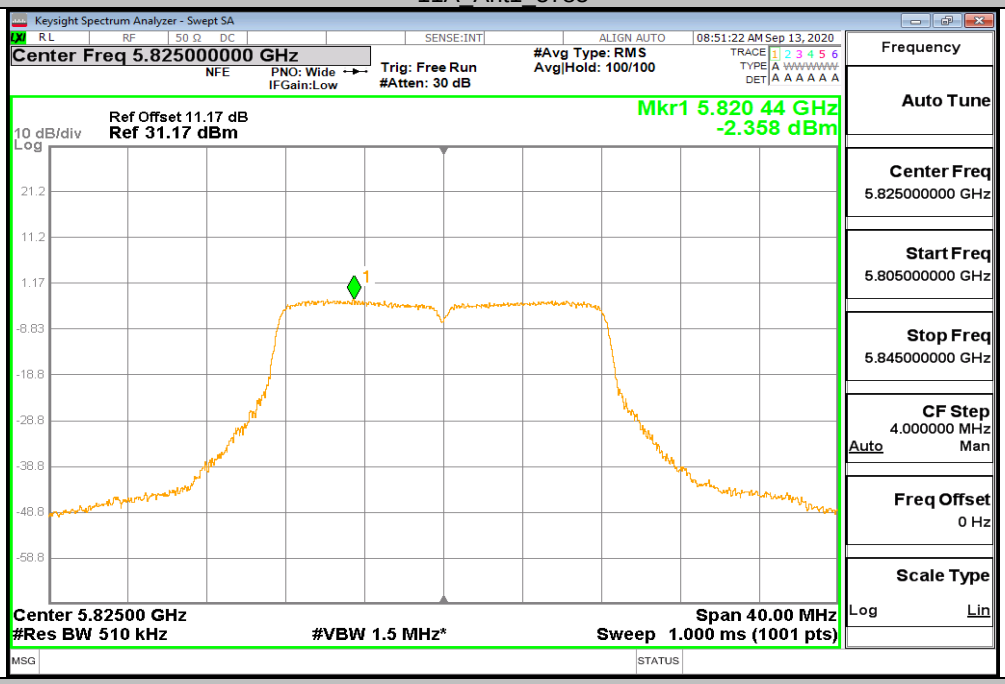
11A_Ant1_5720_UNII-3



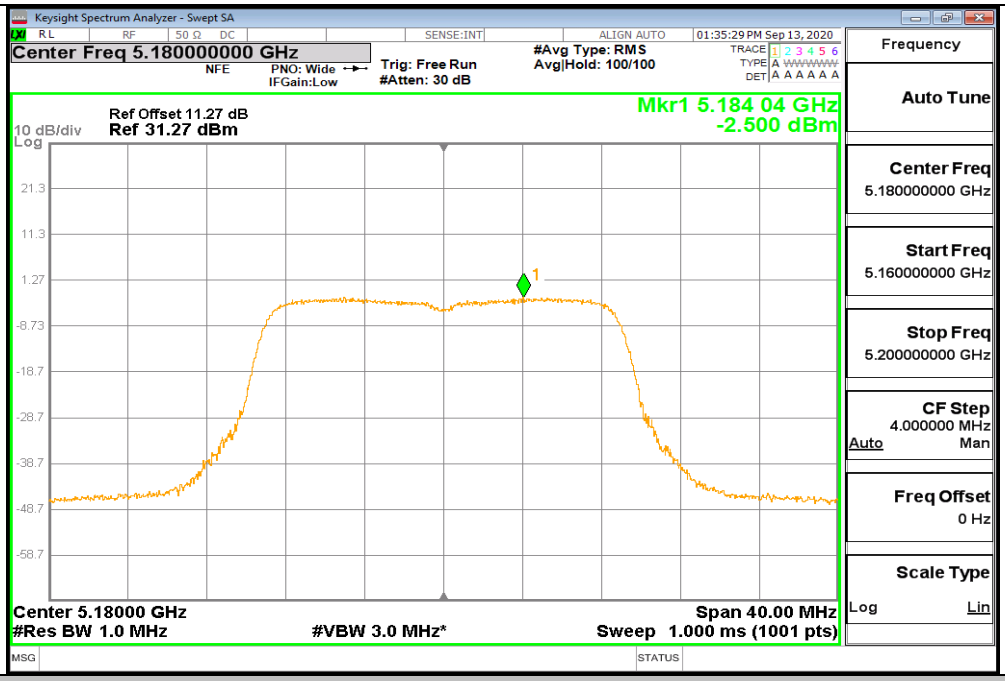
11A_Ant1_5745



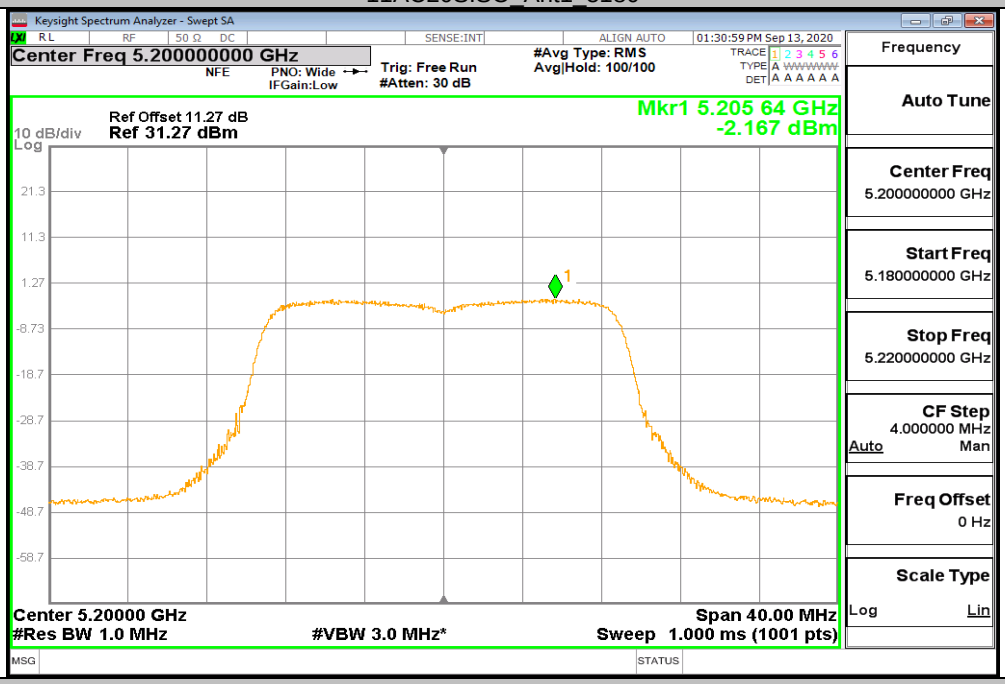
11A_Ant1_5785



11A_Ant1_5825



11AC20SISO_Ant1_5180



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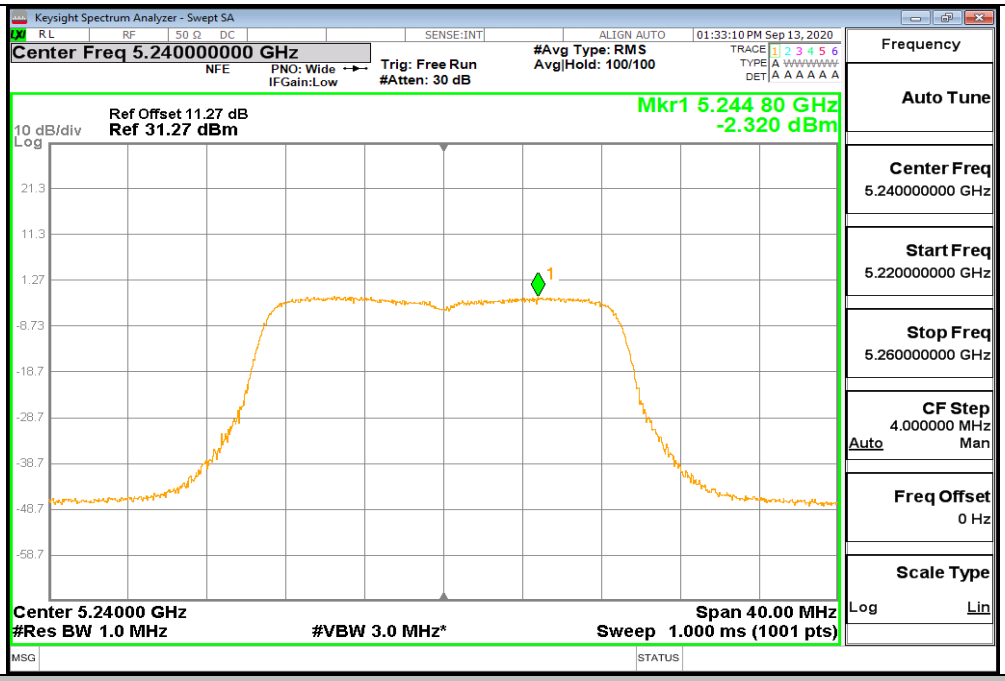
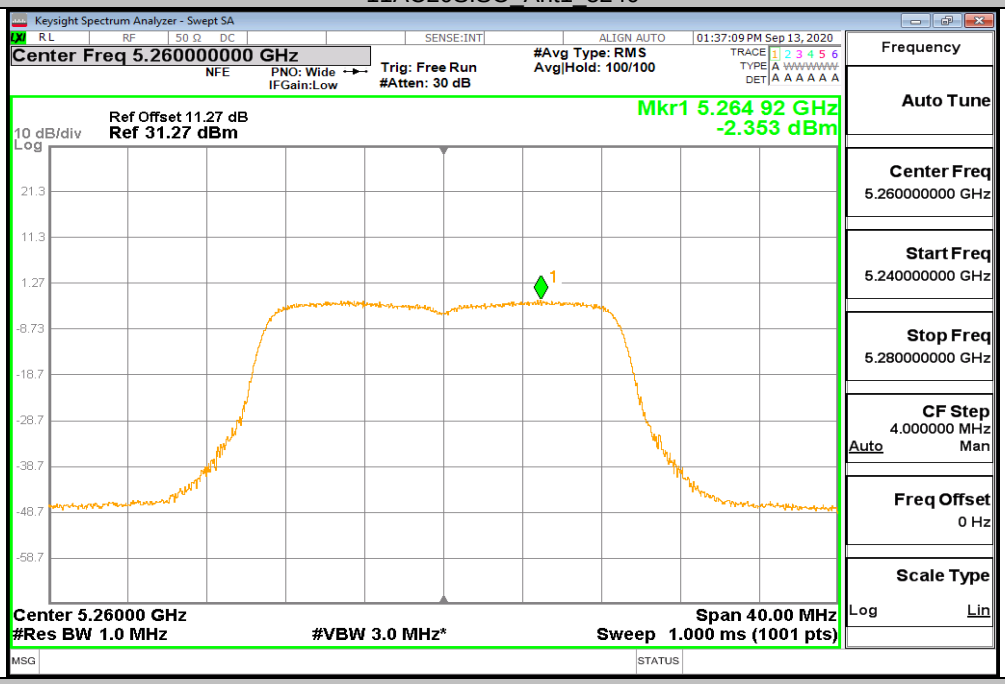
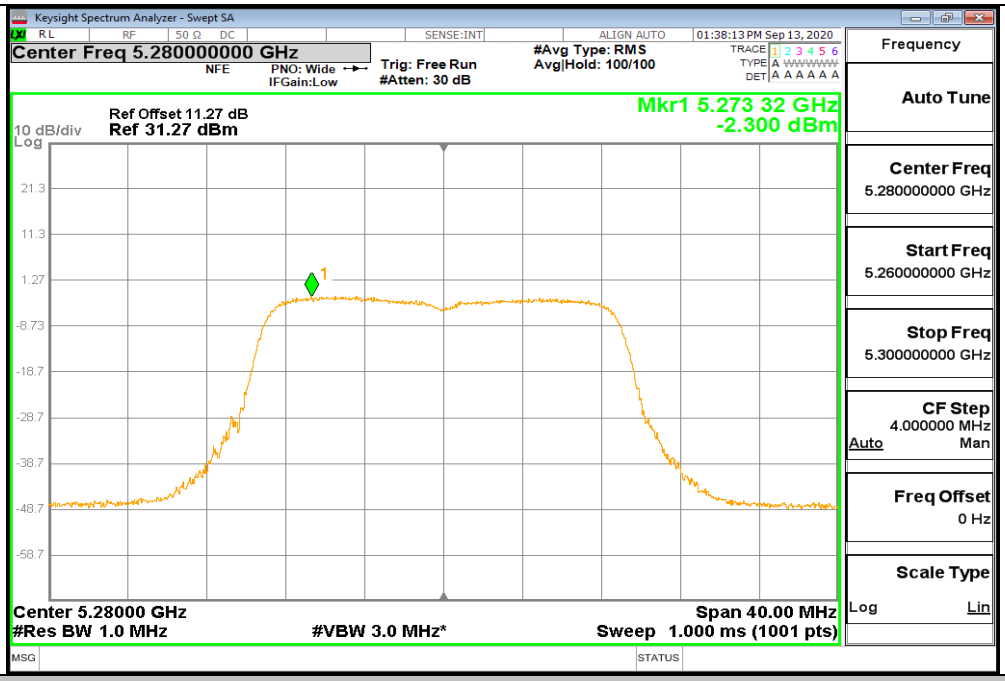


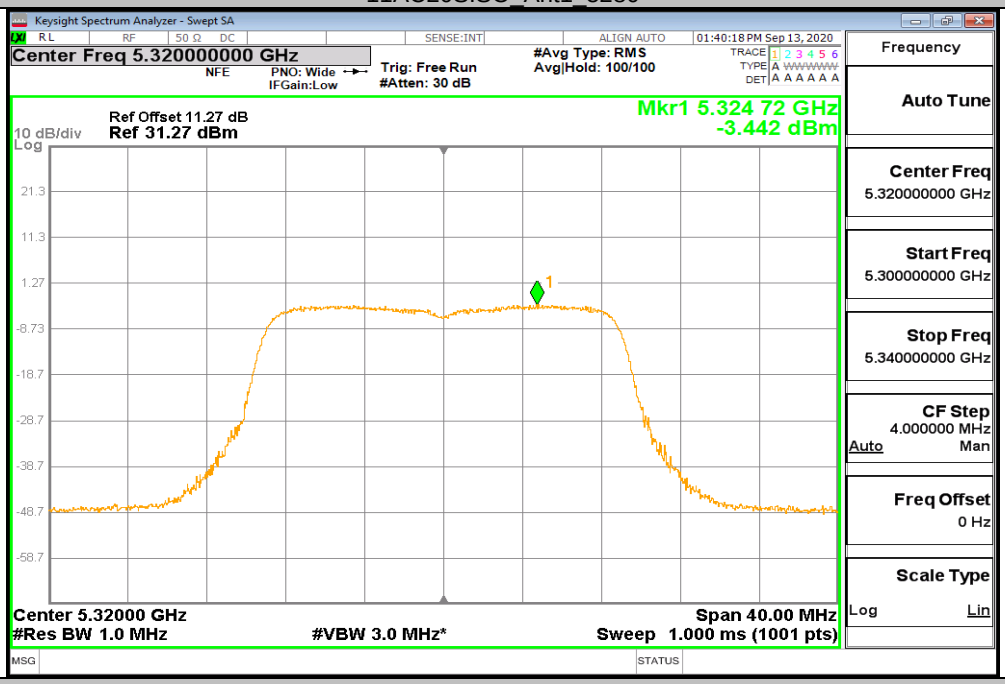
11AC20SISO_Ant1_5240



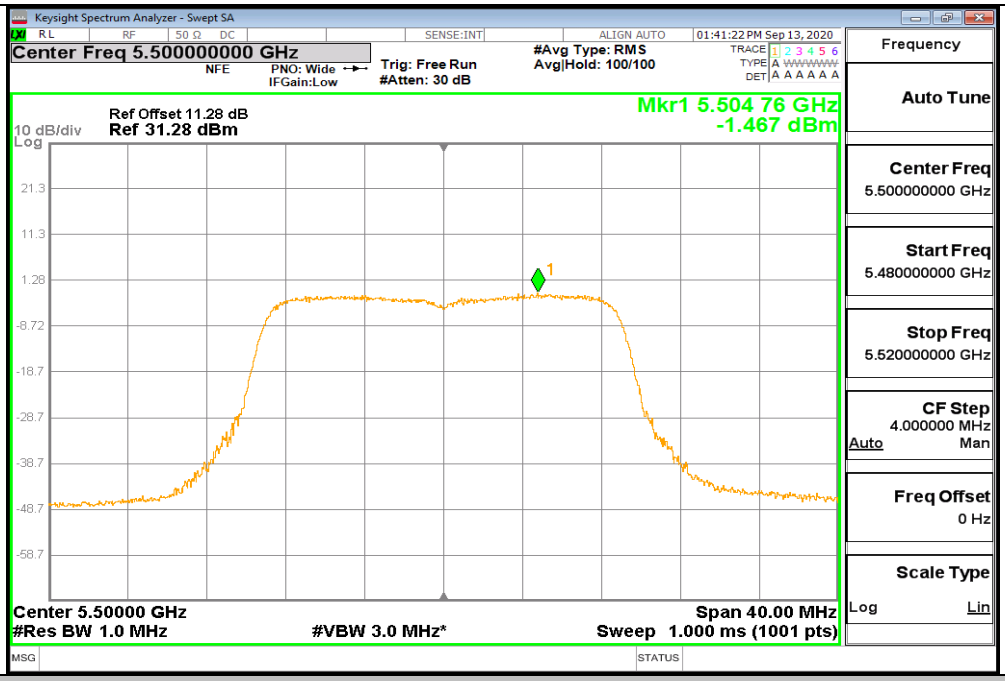
11AC20SISO_Ant1_5260



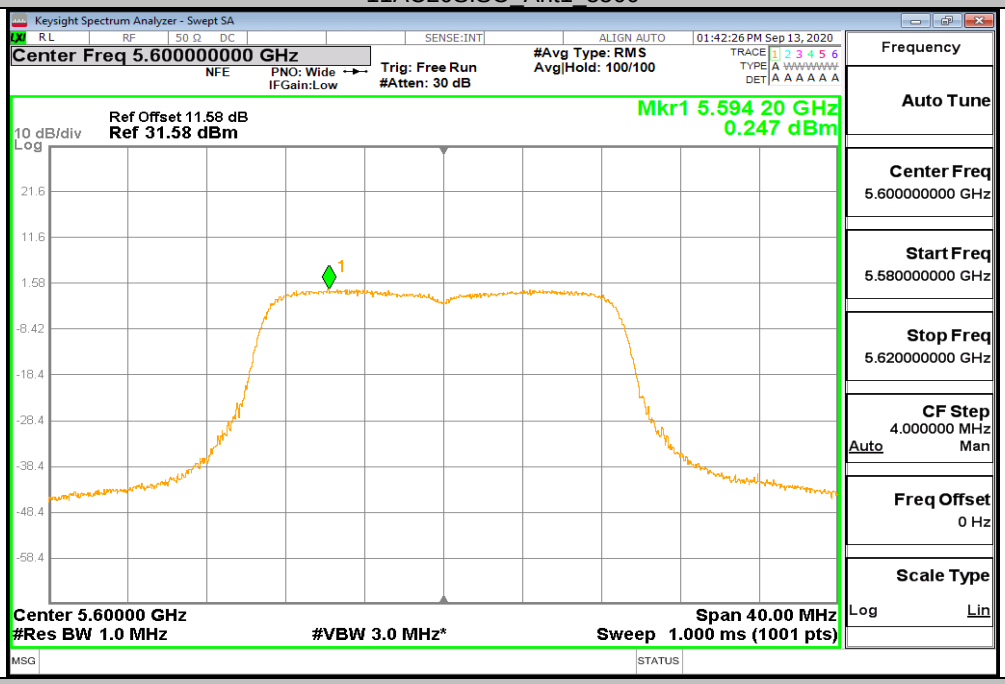
11AC20SISO_Ant1_5280



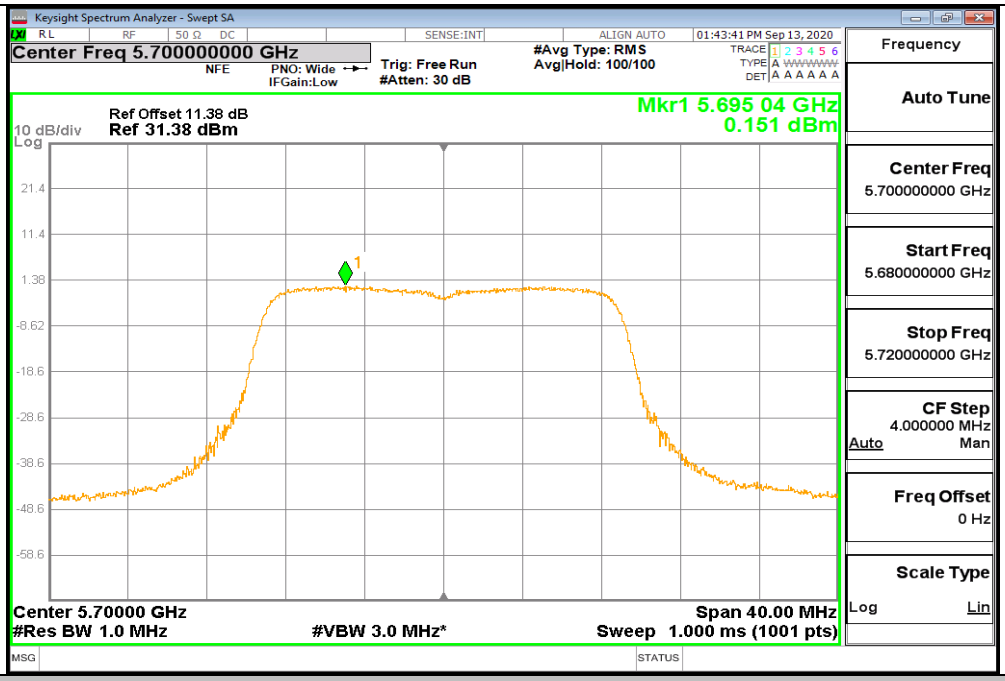
11AC20SISO_Ant1_5320



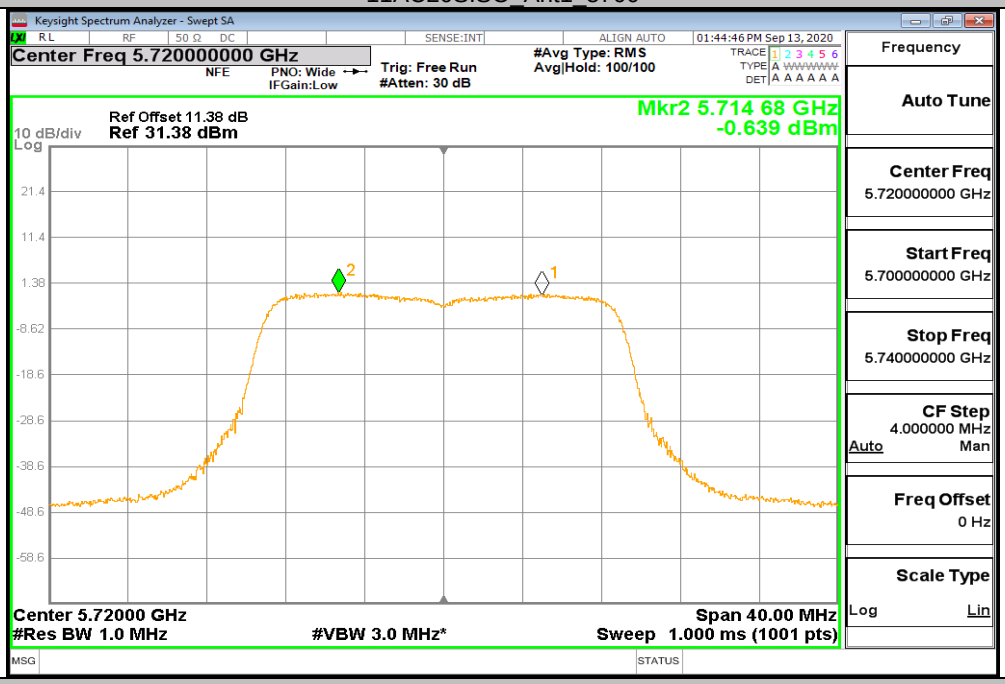
11AC20SISO_Ant1_5500



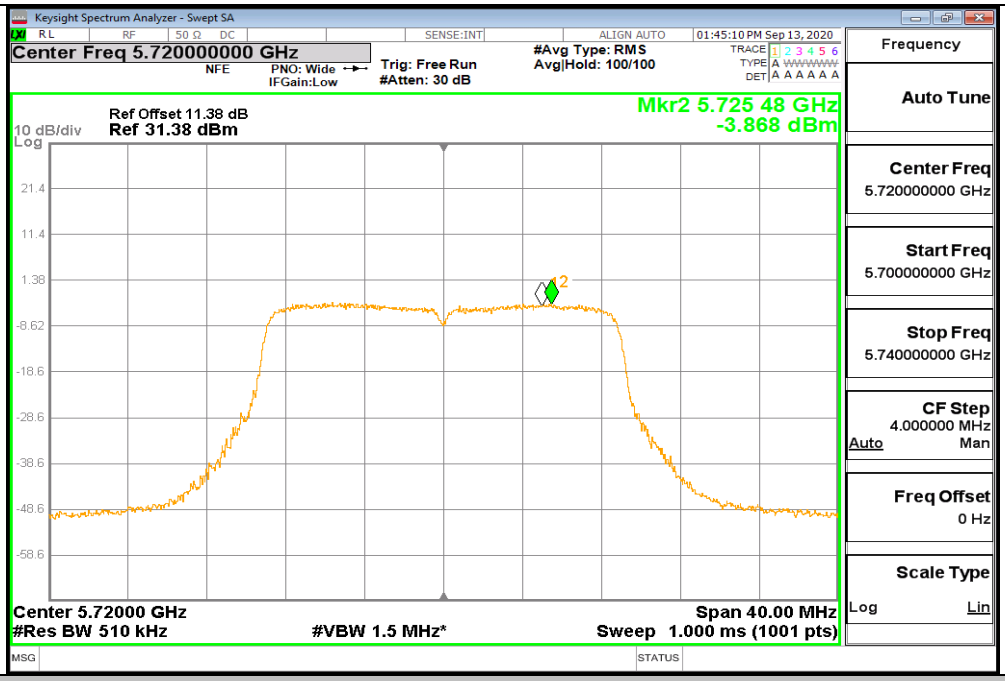
11AC20SISO_Ant1_5600



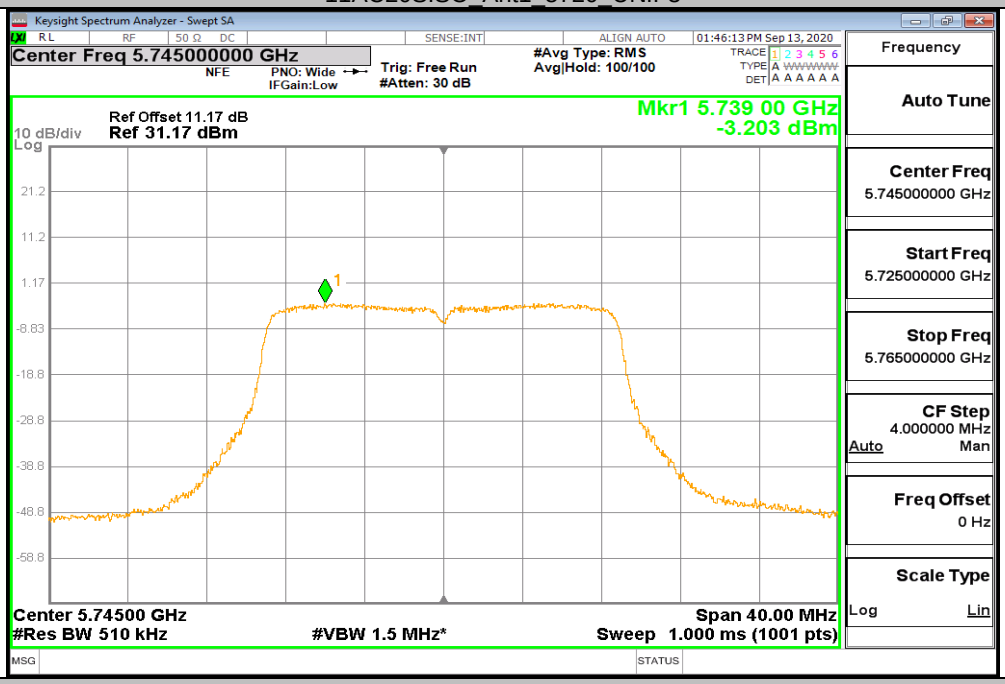
11AC20SISO_Ant1_5700



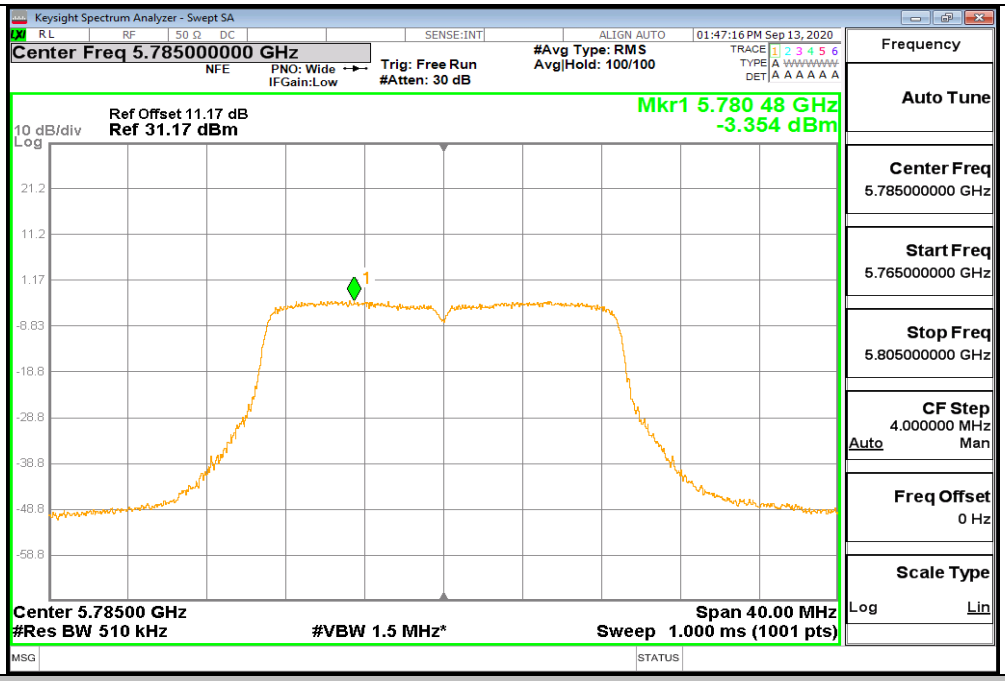
11AC20SISO_Ant1_5720_UNII-2C



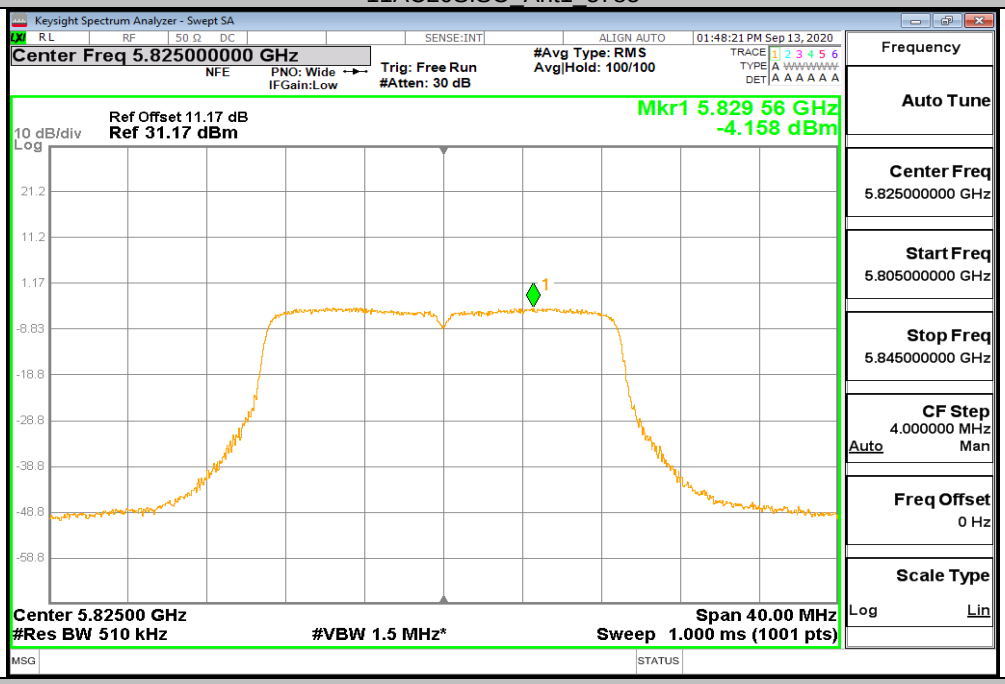
11AC20SISO_Ant1_5720_UNII-3



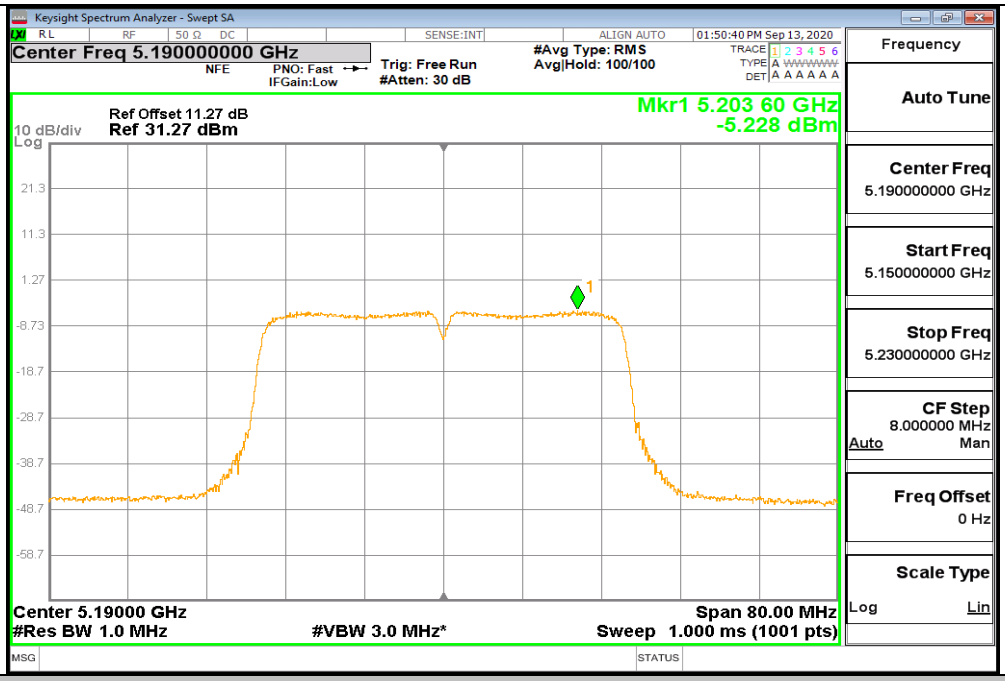
11AC20SISO_Ant1_5745



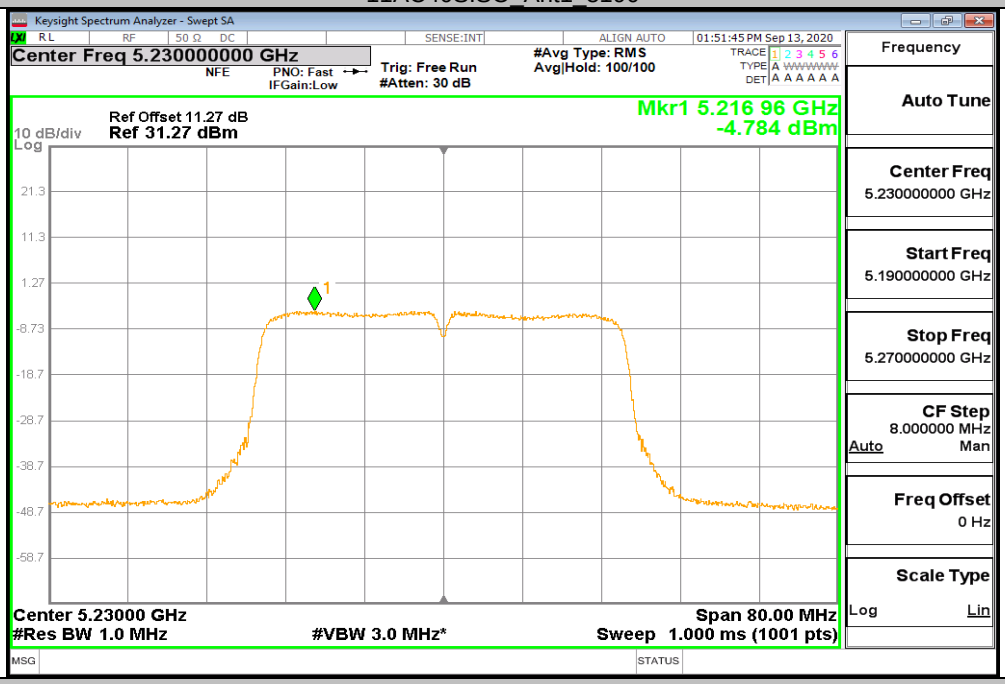
11AC20SISO_Ant1_5785



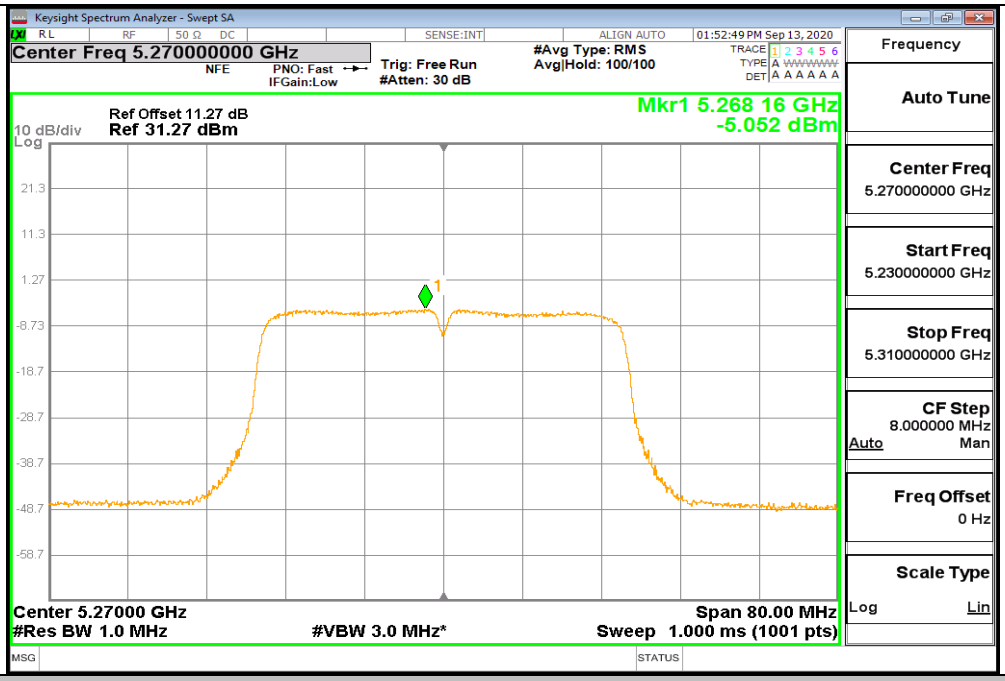
11AC20SISO_Ant1_5825



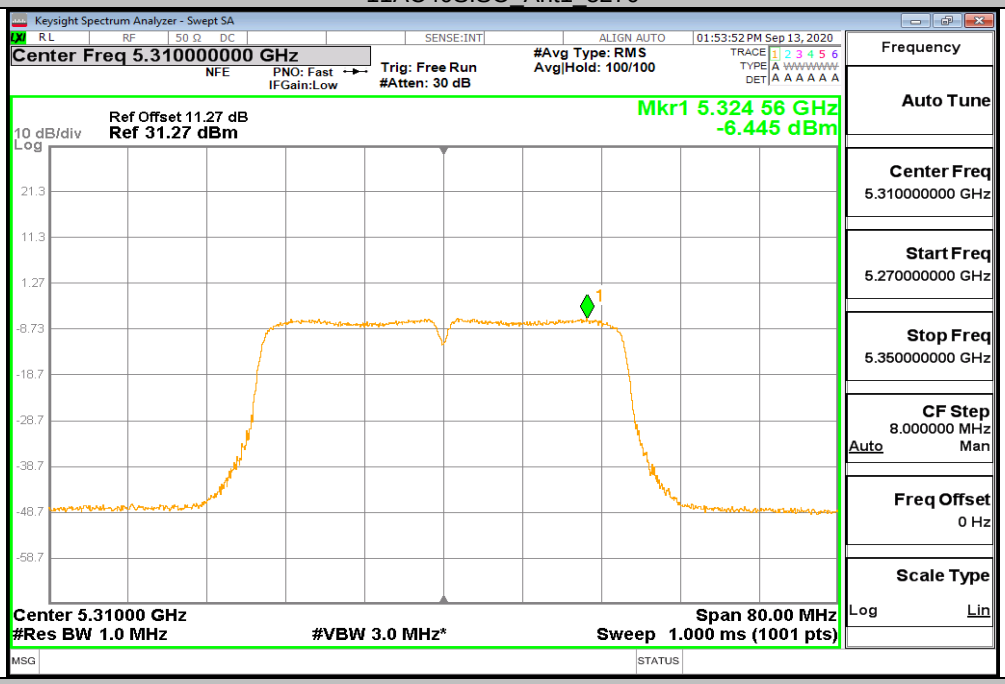
11AC40SISO_Ant1_5190



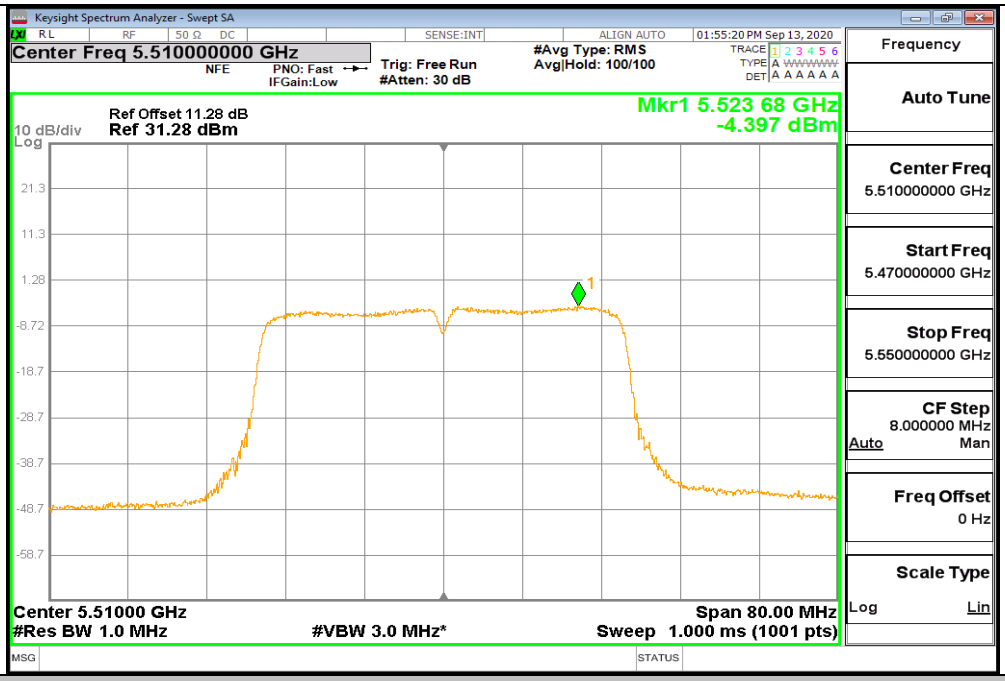
11AC40SISO_Ant1_5230



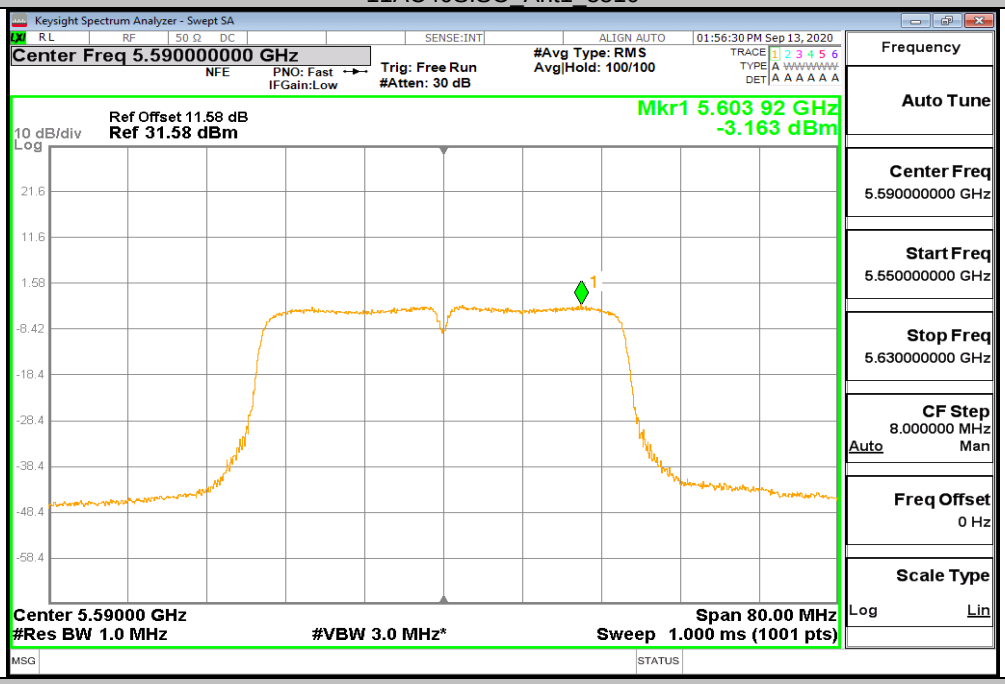
11AC40SISO_Ant1_5270



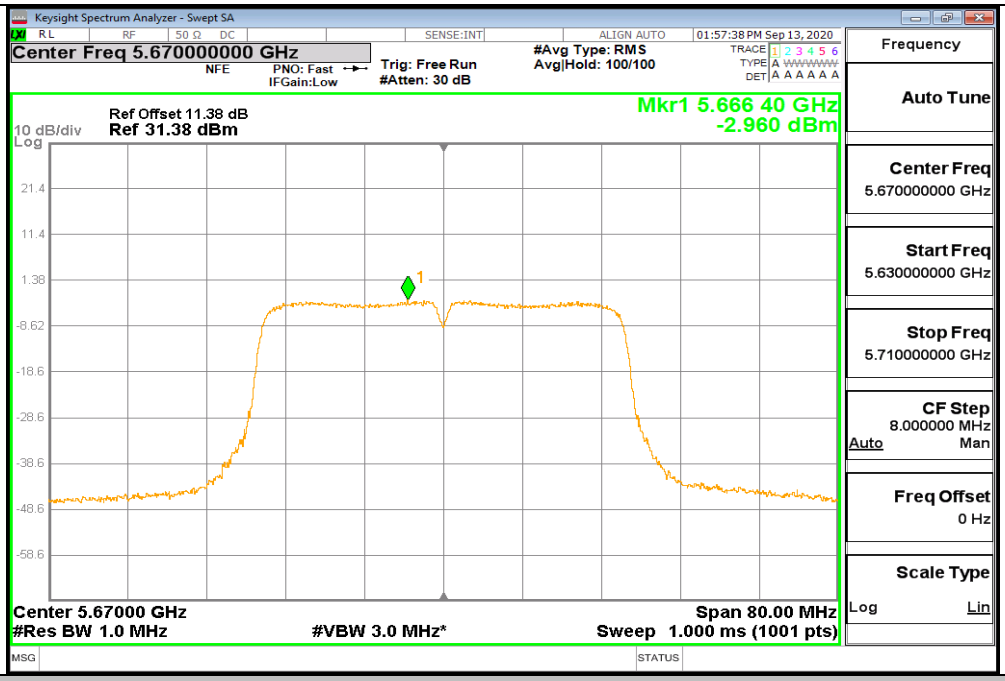
11AC40SISO_Ant1_5310



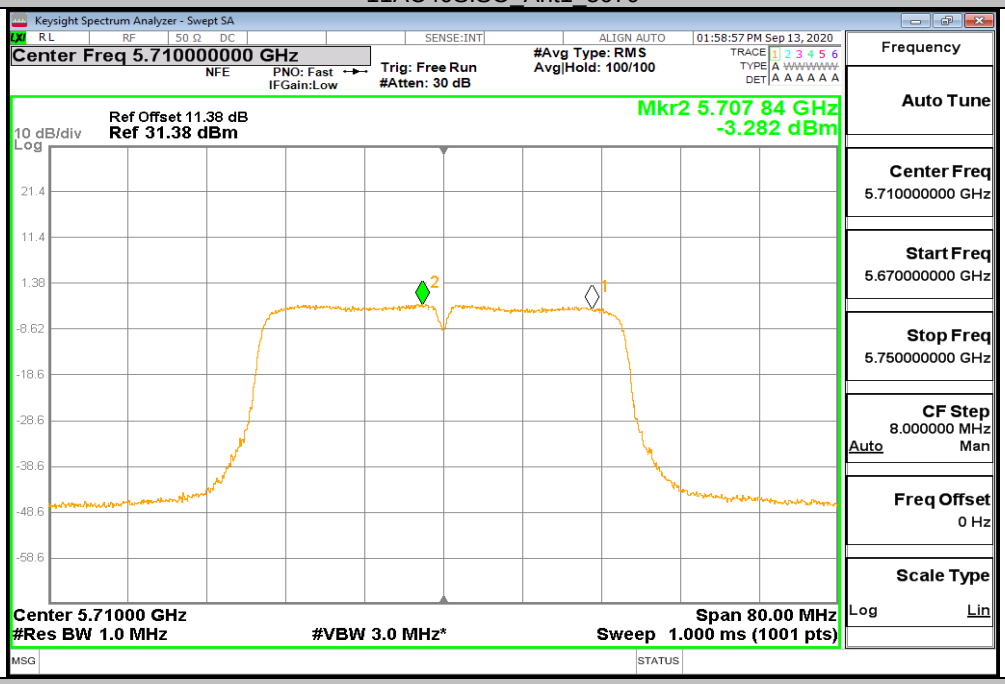
11AC40SISO_Ant1_5510



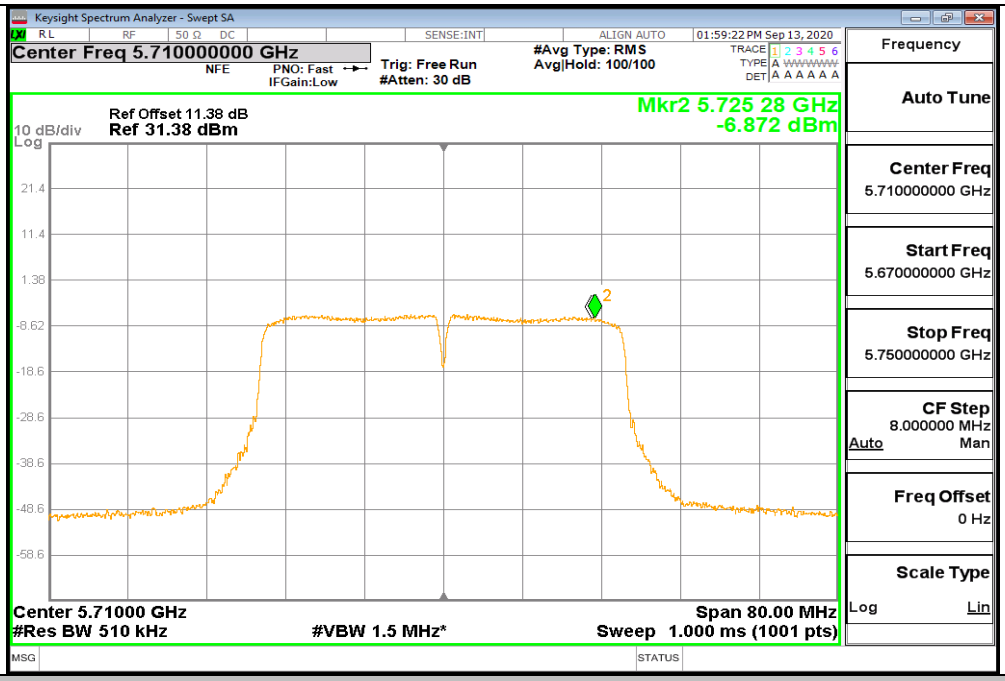
11AC40SISO_Ant1_5590



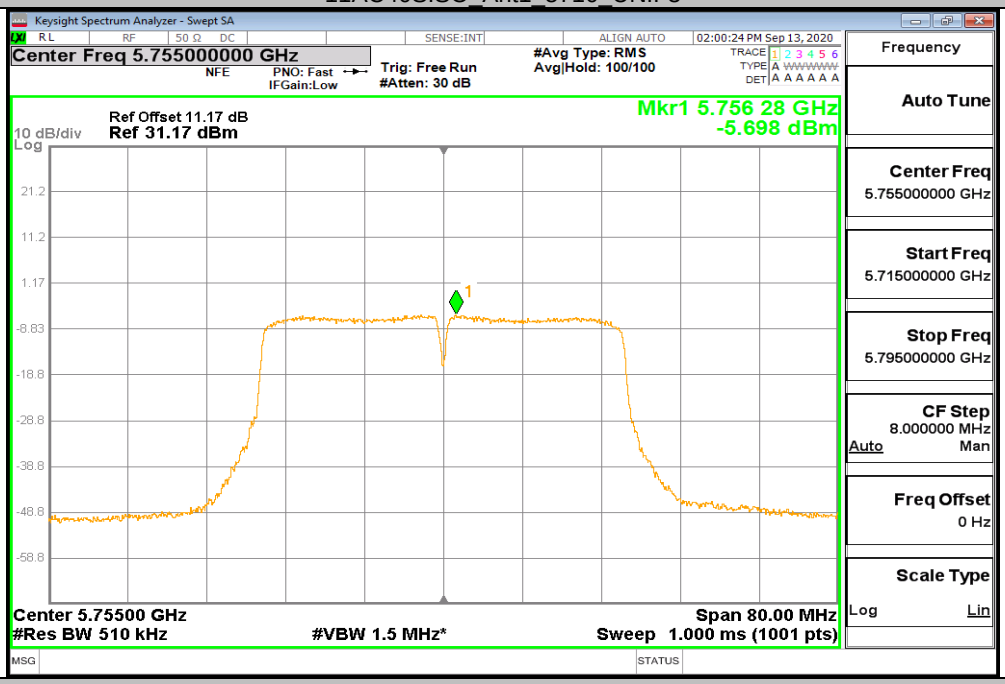
11AC40SISO_Ant1_5670



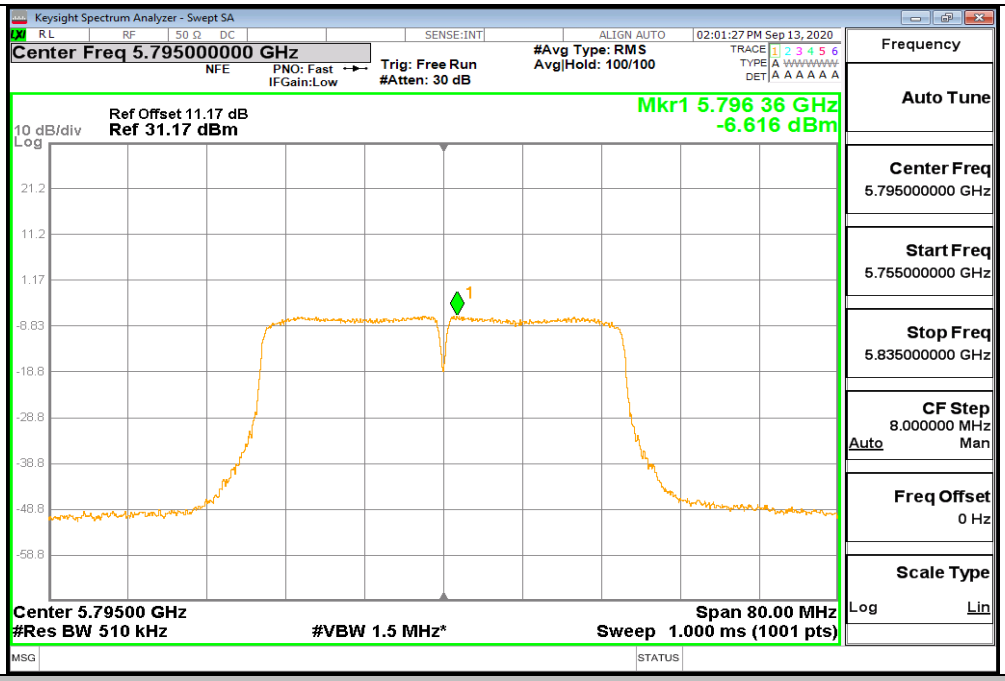
11AC40SISO_Ant1_5710_UNII-2C



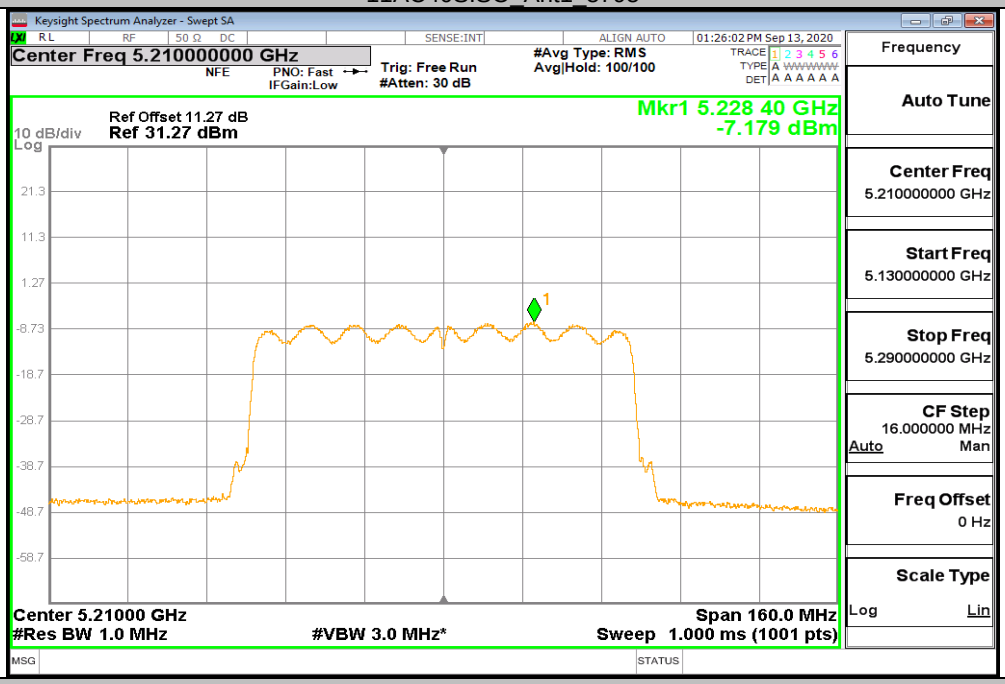
11AC40SISO_Ant1_5710_UNII-3



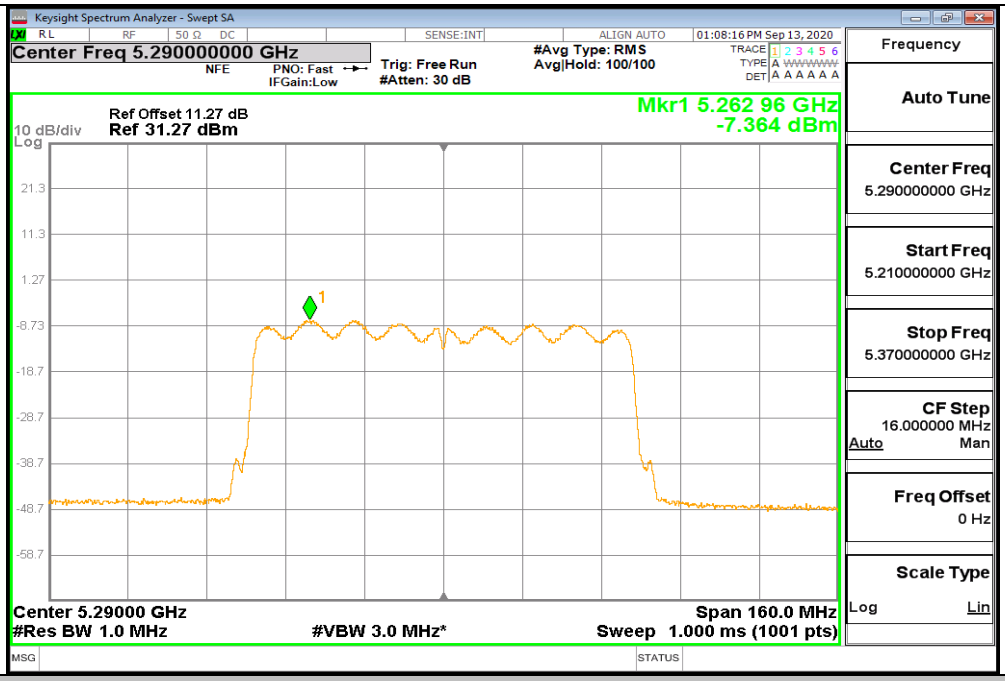
11AC40SISO_Ant1_5755



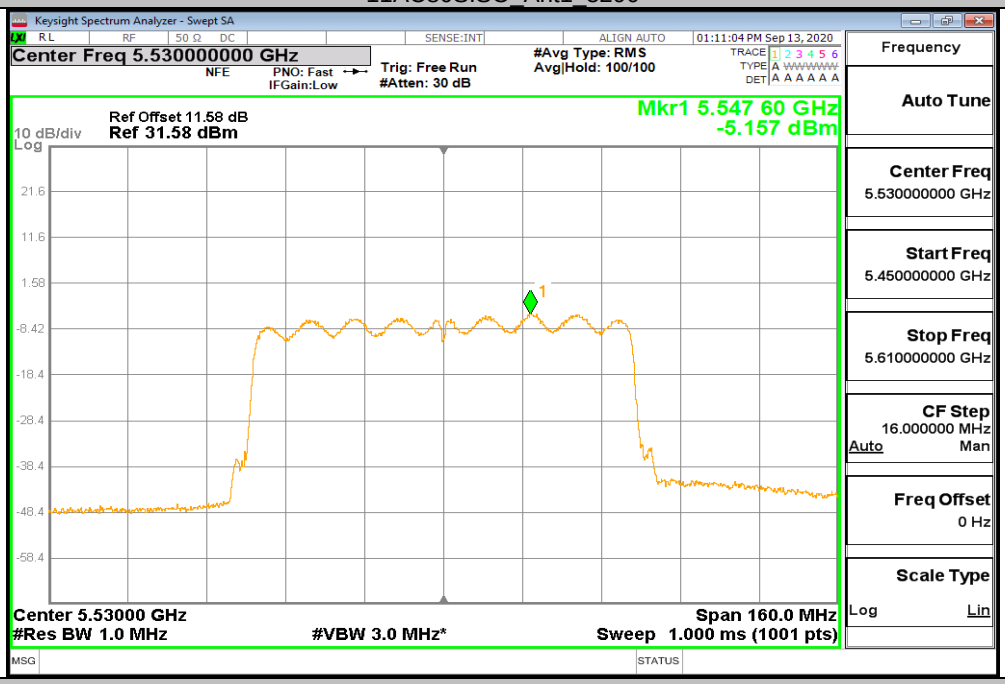
11AC40SISO_Ant1_5795



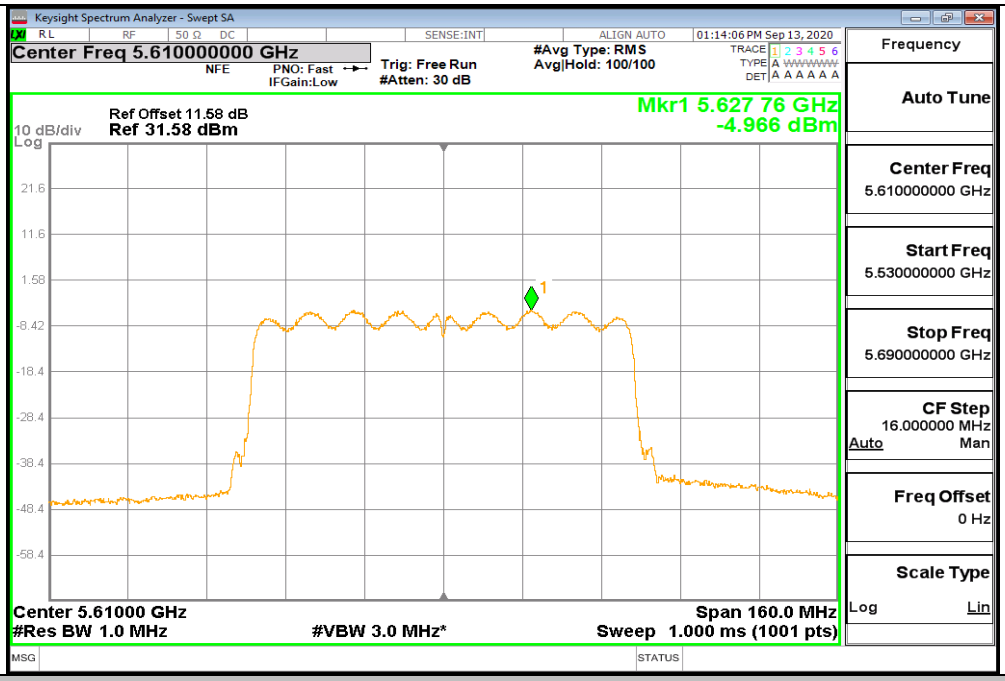
11AC80SISO_Ant1_5210



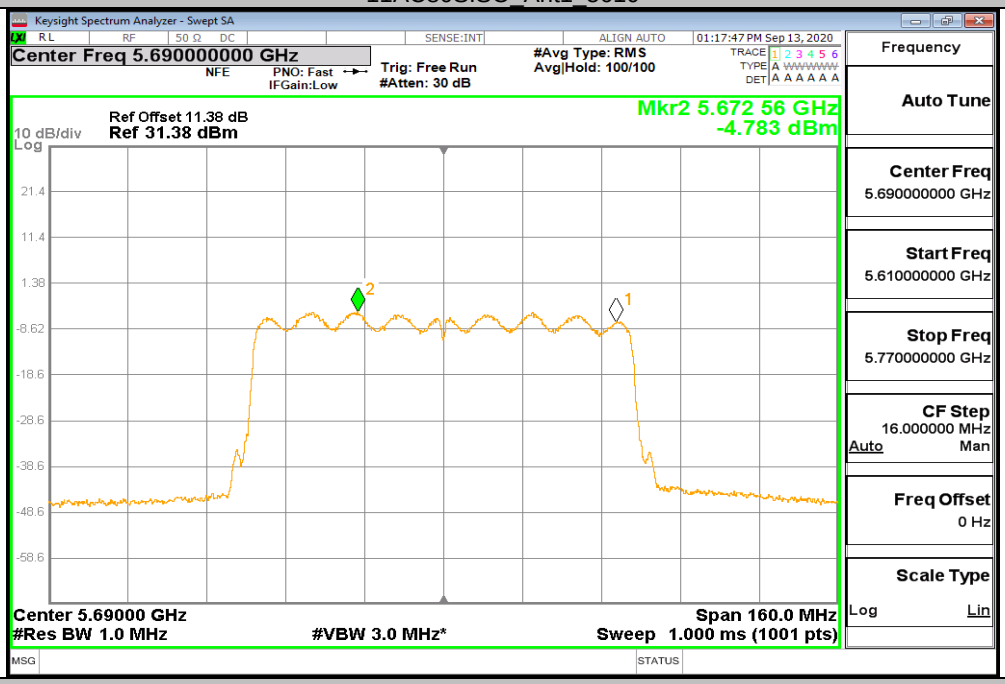
11AC80SISO_Ant1_5290



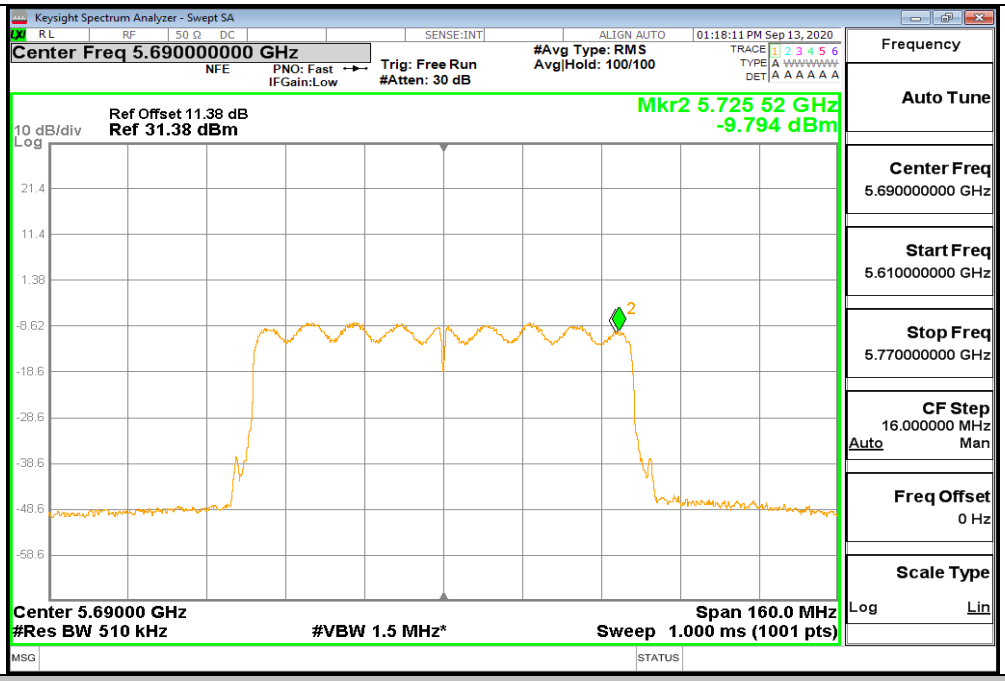
11AC80SISO_Ant1_5530



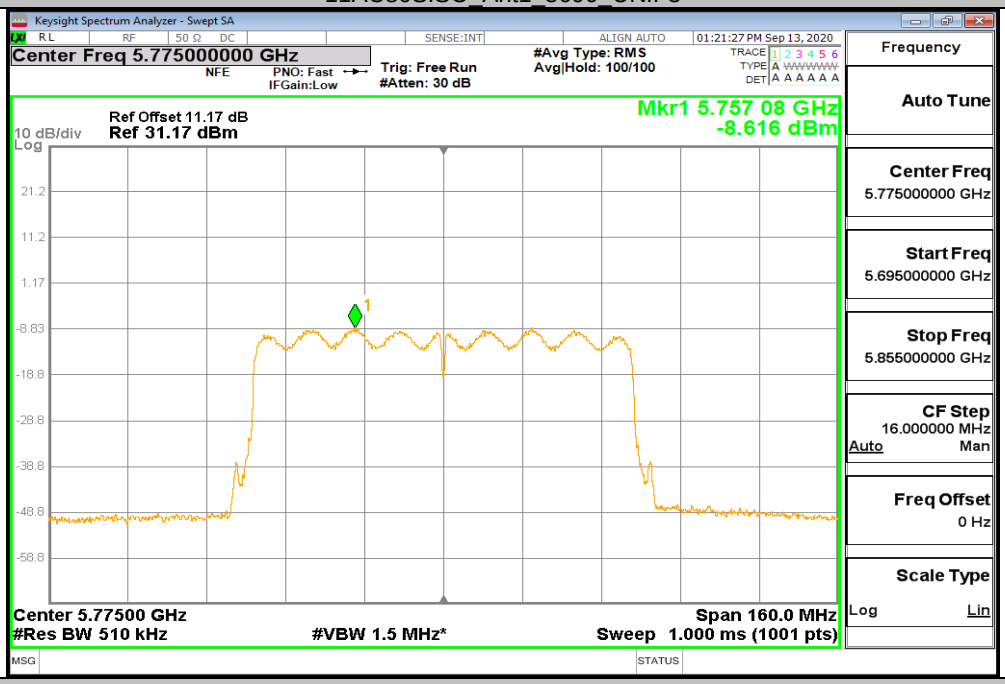
11AC80SISO_Ant1_5610



11AC80SISO_Ant1_5690_UNII-2C



11AC80SISO_Ant1_5690_UNII-3



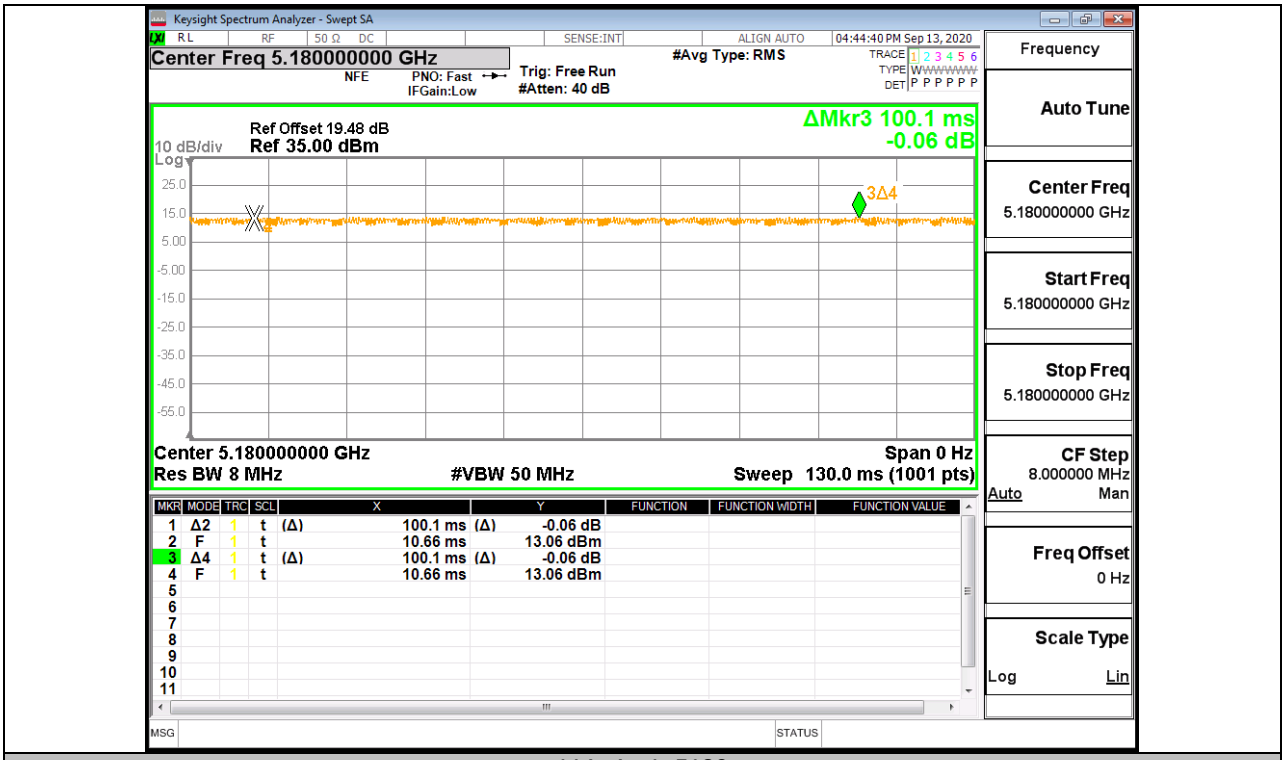
11AC80SISO_Ant1_5775

Appendix D: Duty Cycle
Test Result

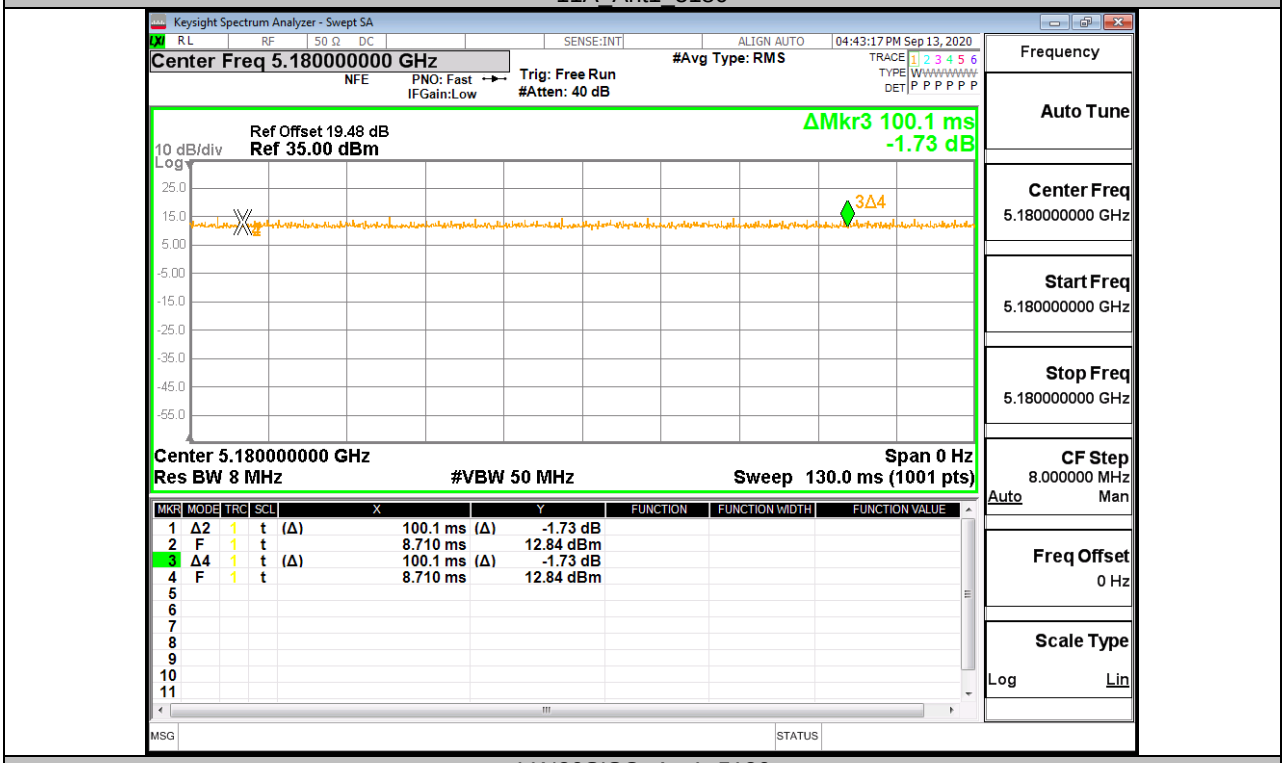
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	100.1	100.1	1	100	0	0.01	0.01
11N20SISO	100.1	100.1	1	100	0	0.01	0.01
11N40SISO	100.1	100.1	1	100	0	0.01	0.01
11AC20SISO	100.1	100.1	1	100	0	0.01	0.01
11AC40SISO	100.1	100.1	1	100	0	0.01	0.01
11AC80SISO	100.1	100.1	1	100	0	0.01	0.01

Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

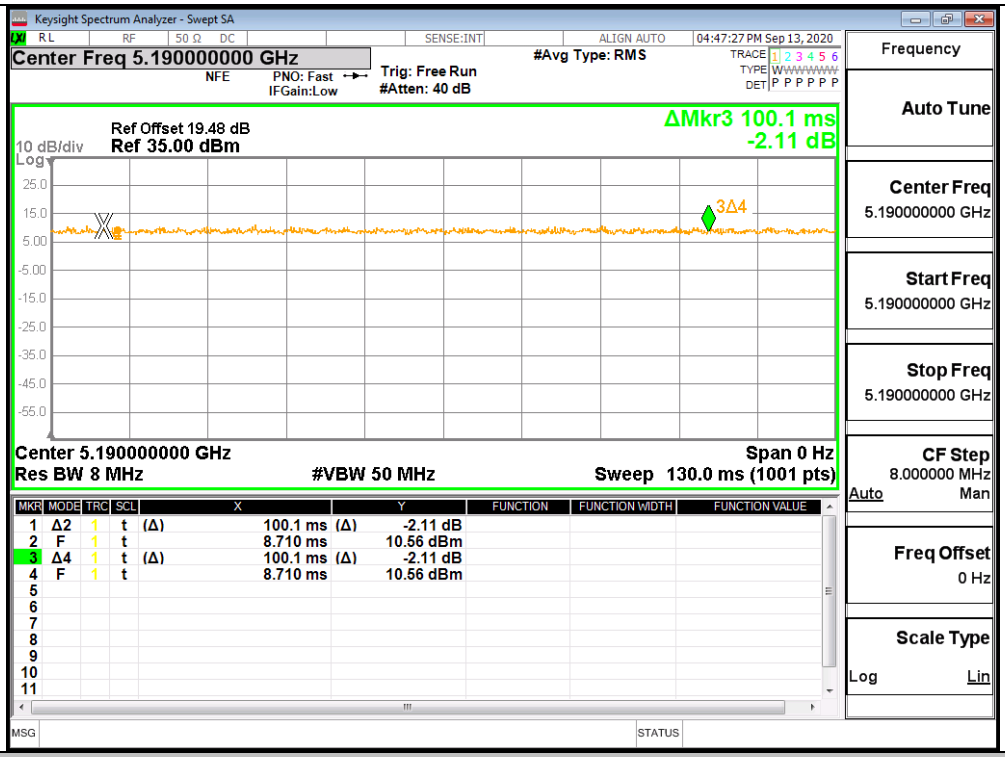
Test Graphs



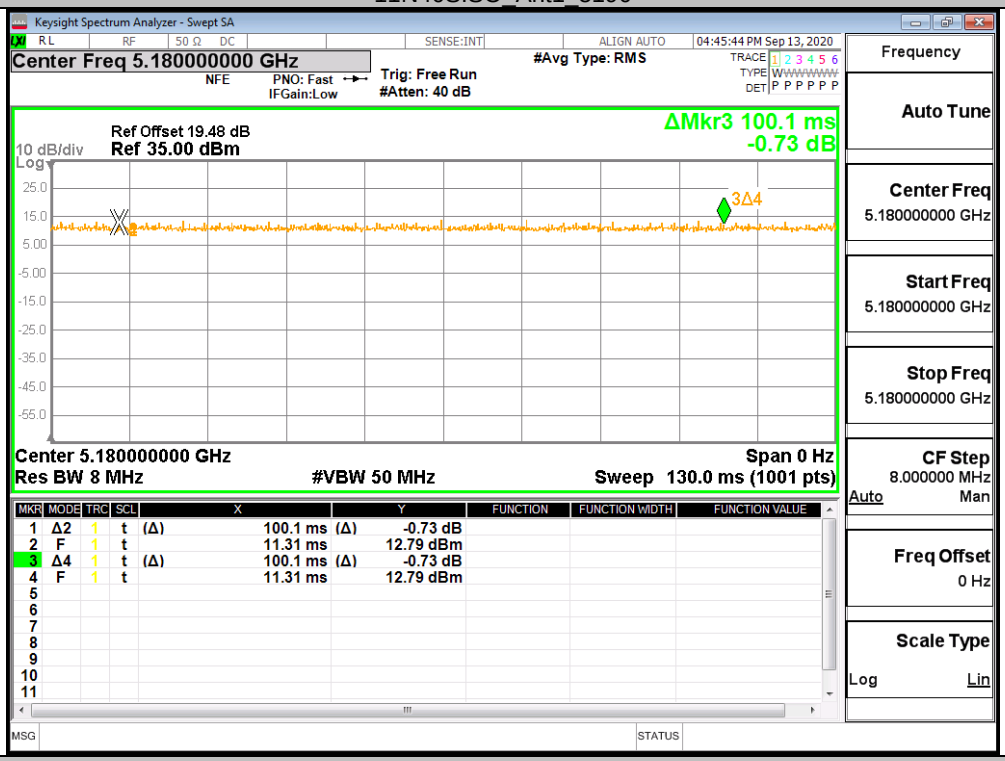
11A_Ant1_5180



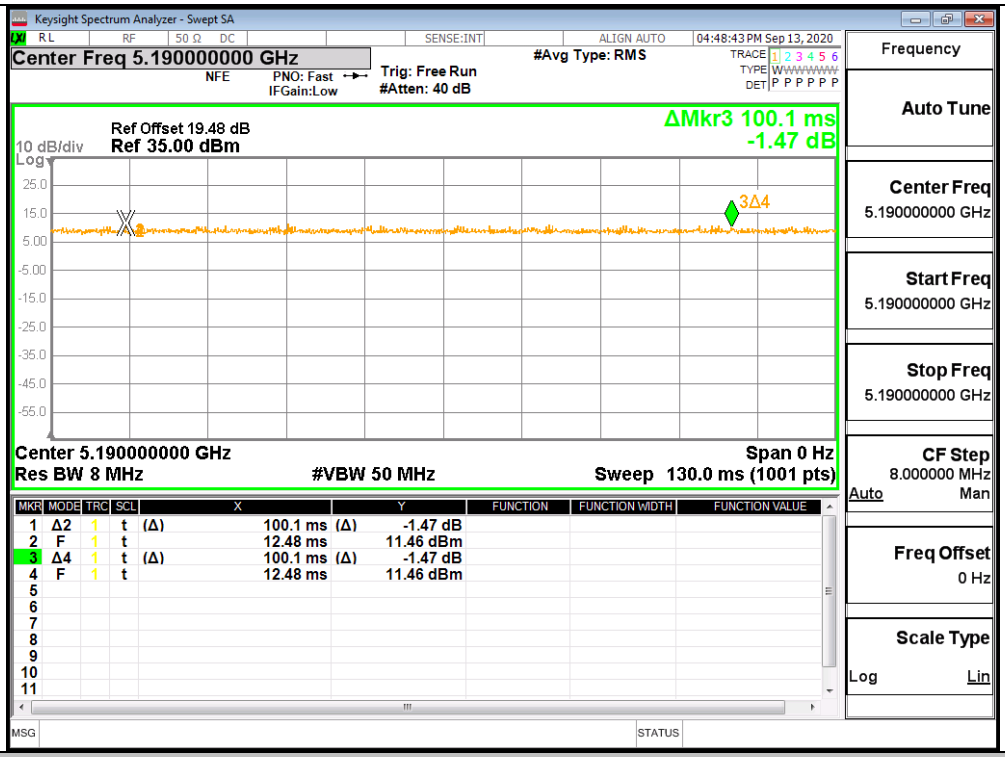
11N20SISO_Ant1_5180



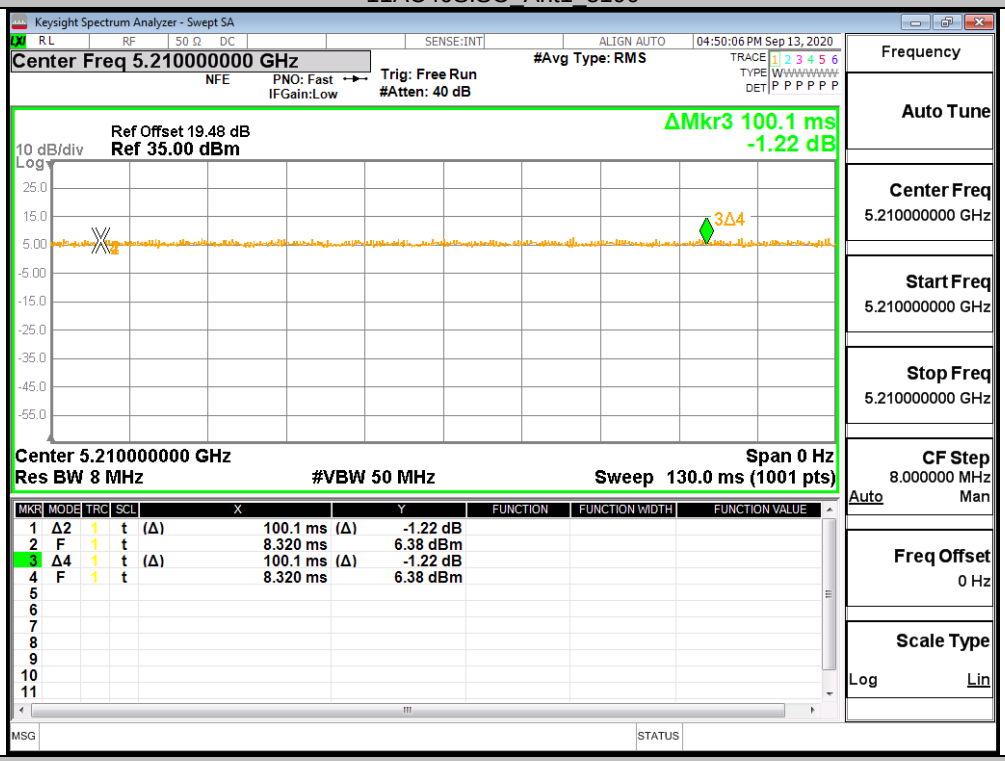
11N40SISO_Ant1_5190



11AC20SISO_Ant1_5180



11AC40SISO_Ant1_5190



11AC80SISO_Ant1_5210

Appendix E: Frequency Stability

Test Result

Frequency Error vs. Voltage									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
T_N	V_L	5200.0178	3.43	5199.9968	-0.62	5200.0155	2.98	5199.9953	-0.90
T_N	V_N	5200.0085	1.64	5199.9814	-3.58	5200.0159	3.05	5200.0063	1.20
T_N	V_H	5200.0044	0.85	5200.0011	0.22	5199.9989	-0.20	5200.0107	2.05
Frequency Error vs. Temperature									
802.11a: 5200 MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	V_N	5199.9835	-3.17	5199.9884	-2.23	5200.0165	3.18	5199.9751	-4.79
30	V_N	5199.9798	-3.88	5200.0173	3.33	5199.9809	-3.67	5199.9795	-3.94
20	V_N	5200.0162	3.11	5200.0068	1.30	5199.9977	-0.45	5200.0219	4.20
10	V_N	5200.0226	4.35	5199.9946	-1.04	5200.0024	0.45	5199.9888	-2.16
0	V_N	5200.0180	3.47	5200.0057	1.09	5200.0172	3.31	5200.0133	2.56

Frequency Error vs. Voltage									
802.11a: 5825 MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
T_N	V_L	5824.9804	-3.36	5825.0231	3.97	5825.0139	2.38	5824.9920	-1.37
T_N	V_N	5825.0080	1.38	5825.0012	0.21	5825.0162	2.77	5824.9993	-0.12
T_N	V_H	5825.0008	0.13	5824.9755	-4.20	5825.0170	2.92	5825.0154	2.65
Frequency Error vs. Temperature									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	V_N	5824.9885	-1.98	5824.9912	-1.51	5824.9937	-1.08	5824.9817	-3.14
30	V_N	5824.9818	-3.13	5825.0039	0.67	5824.9868	-2.26	5825.0198	3.40
20	V_N	5824.9949	-0.87	5824.9958	-0.72	5825.0231	3.97	5824.9964	-0.62
10	V_N	5824.9780	-3.77	5824.9759	-4.13	5825.0173	2.97	5824.9788	-3.64
0	V_N	5824.9981	-0.33	5824.9823	-3.03	5824.9781	-3.76	5824.9781	-3.77

Note: All the modes have been tested, only the worst data was recorded in the report.

Appendix F: Dynamic Frequency Selection

Test Result

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
DFS In-Service Monitoring	5530.000	18.0	80.000000	PASS

DFS In-Service Monitoring (5530 MHz; 22.000 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Type of Measurement value	Overall Result
5530.000000	0	First of all Transmitt Test	---
5530.000000	0	Channel Move Time	PASS
5530.000000	0	Channel Closing Transmission Time	PASS
5530.000000	0	Non-occupancy period	PASS

(continuation of the "Measurement Summary" table from column 4 ...)

DUT Frequency (MHz)	Overall Comment
5530.000000	not performed / not finished
5530.000000	
5530.000000	
5530.000000	

Channel Move Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CMT Tx Time (s)	CMT Limit (s)	CMT Result
5530.000000	0	0.487	10.000	PASS

(continuation of the "Channel Move Time Detailed Results" table from column 5 ...)

DUT Frequency (MHz)	CMT Comment
5530.000000	Tx Time value is last trailing edge found within sweep. See Note 1.

Channel Closing Transmission Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CCTT Type of Value	CCTT No. of Pulses found	CCTT Tx Time (ms)
5530.000000	0	first 200 ms	4	1.228
5530.000000	0	remaining 10.0 second(s) period	13	1.456

(continuation of the "Channel Closing Transmission Time Detailed Results" table from column 5 ...)

DUT Frequency (MHz)	CCTT Tx Time Limit (ms)	CCTT Result	CCTT Comment
5530.000000	200.000	PASS	See Note 1.
5530.000000	60.000	PASS	See Note 1.

Non-occupancy period Detailed Results

DUT Frequency (MHz)	Radar Type No.	NOP No. of Pulses found	NOP No. of Pulses Limit	NOP Tx Time (s)	NOP Tx Time Limit (s)
5530.000000	0	0	0	0.000	0.000

(continuation of the "Non-occupancy period Detailed Results" table from column 6 ...)

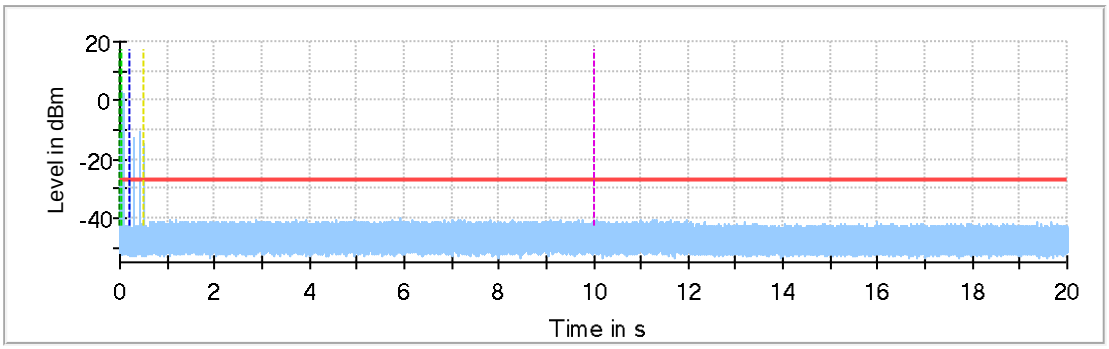
DUT Frequency (MHz)	NOP Result	NOP Comment
5530.000000	PASS	not performed because of Channel Closing Transmission Time / Channel Move Time Test failed

Transmitting Test Detailed Results

DUT Frequency (MHz)	Tx-Test Result	Tx-Test Comment
5530.000000	---	not performed / not finished

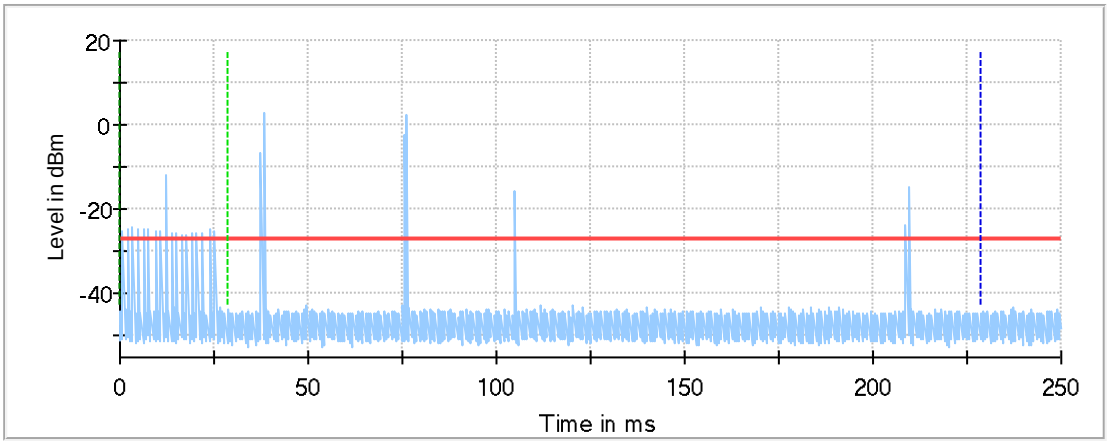
Test Graphs

Channel Move Time

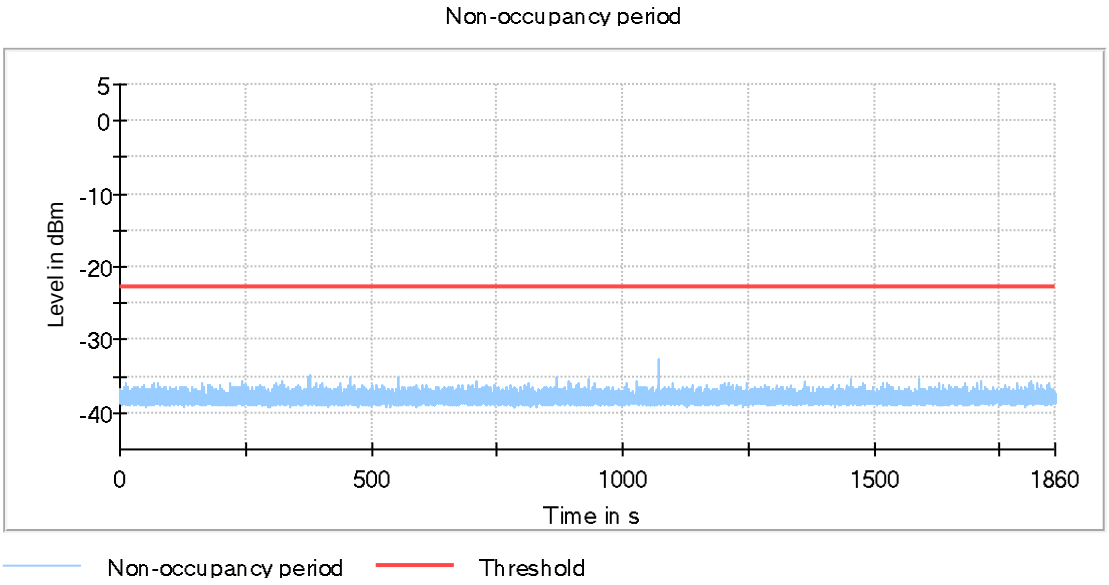


Channel Move Time
Threshold
Start of Radar
Trigger at end of Radar
First 200ms of Channel Closing Tx Time
10sec Channel Move Time Limit
Last measured edge of Channel Closing Tx Time

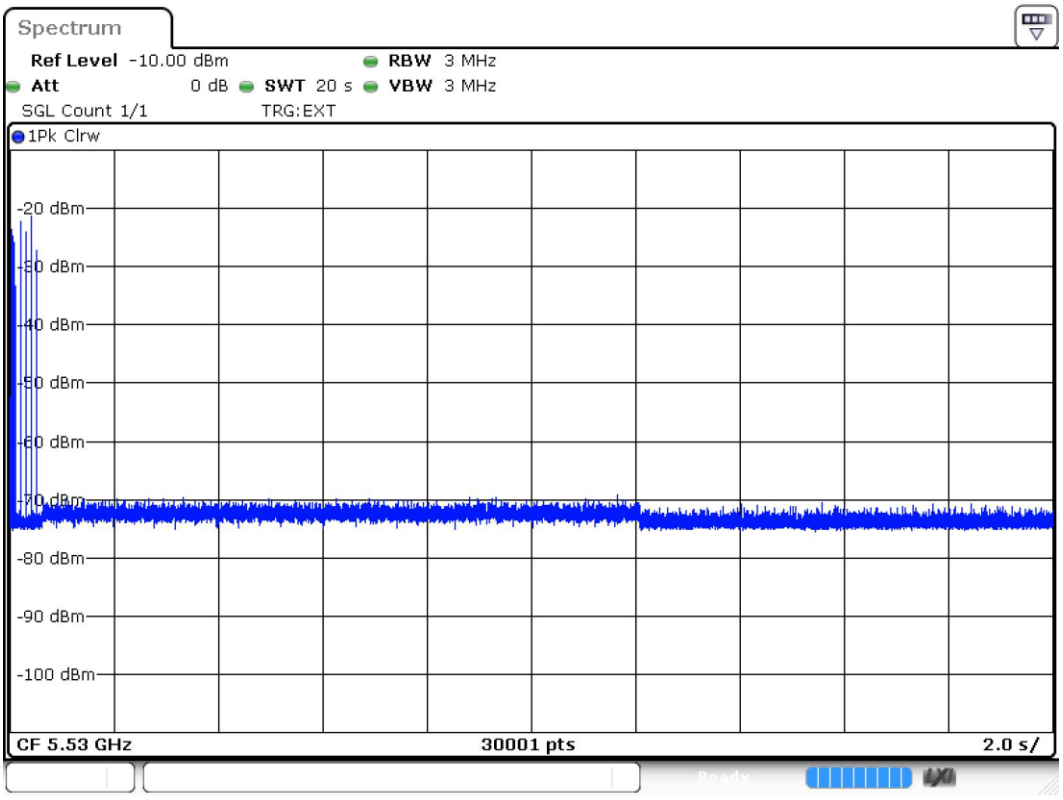
Channel Move Time first 200ms



Channel Move Time first 200ms
Threshold
Start of Radar
Trigger at end of Radar
First 200ms of Channel Closing Tx Time

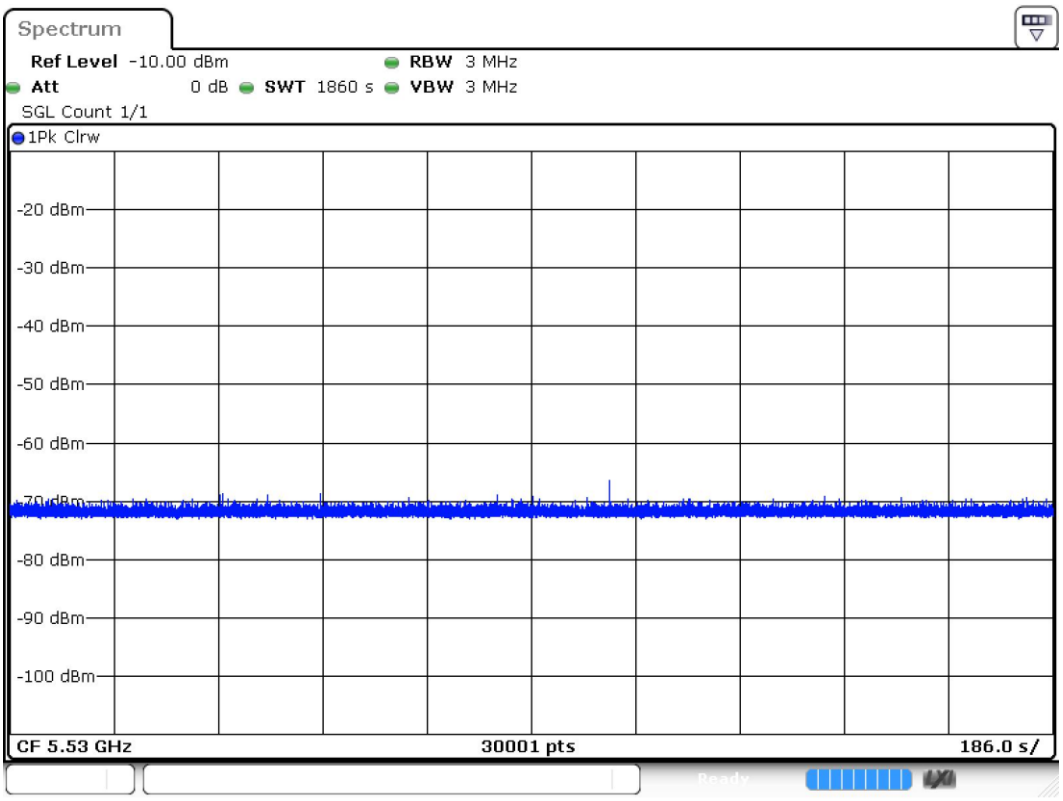


Channel Move Time



Date: 30.OCT.2020 03:57:52

Non-occupancy period



Date: 30.OCT.2020 04:29:00

Note: All the test modes have been tested, only the worst data was recorded in the report.

END OF REPORT