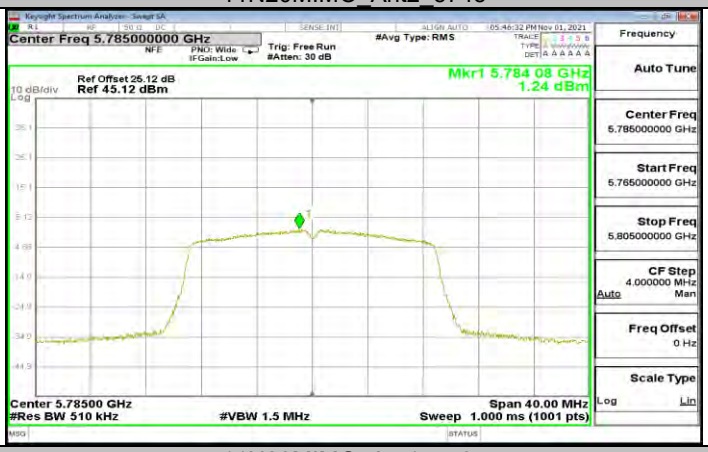
11N20MIMO_Ant2_5745

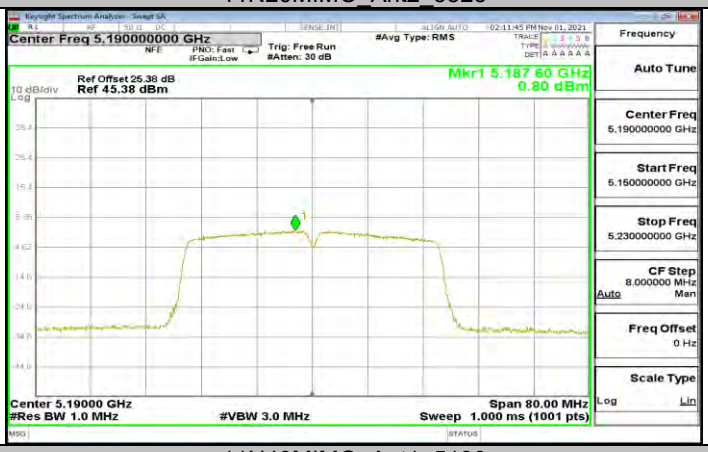


11N20MIMO_Ant1_5785

11N20MIMO_Ant2_5785

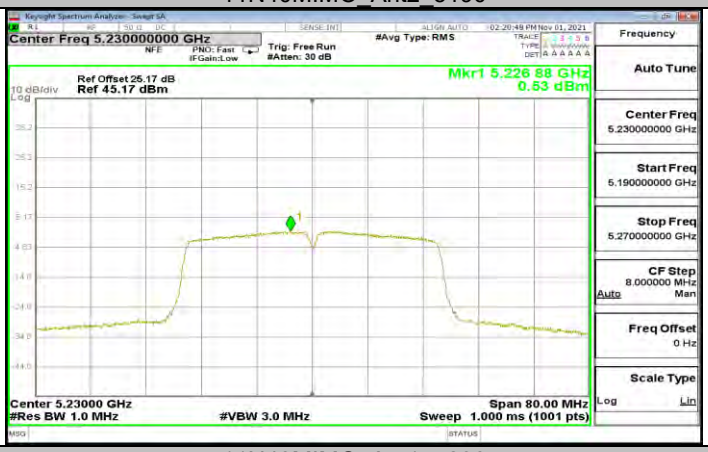
11N20MIMO_Ant1_5825

11N20MIMO_Ant2_5825

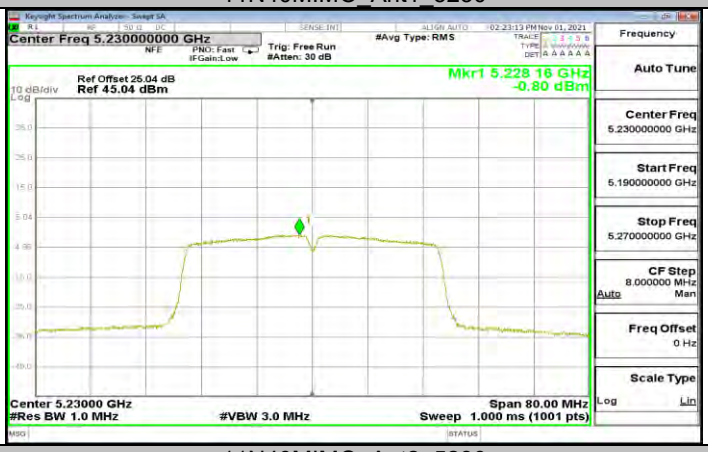


11N40MIMO_Ant1_5190

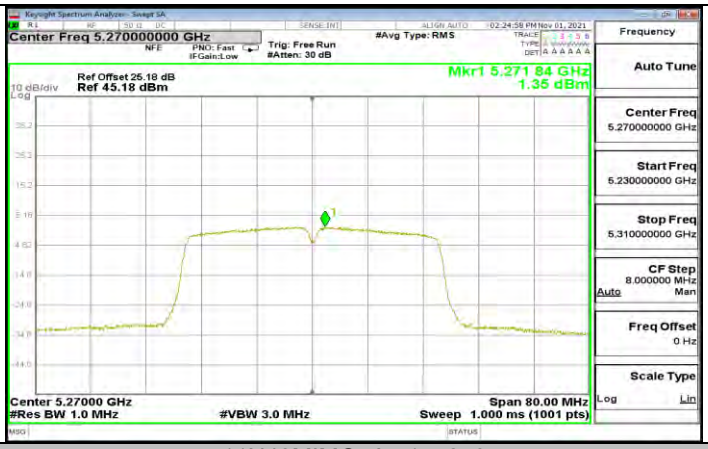
11N40MIMO_Ant2_5190



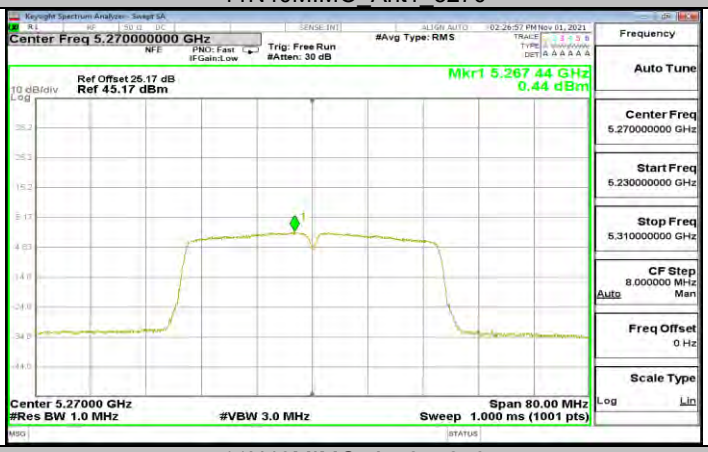
11N40MIMO_Ant1_5230



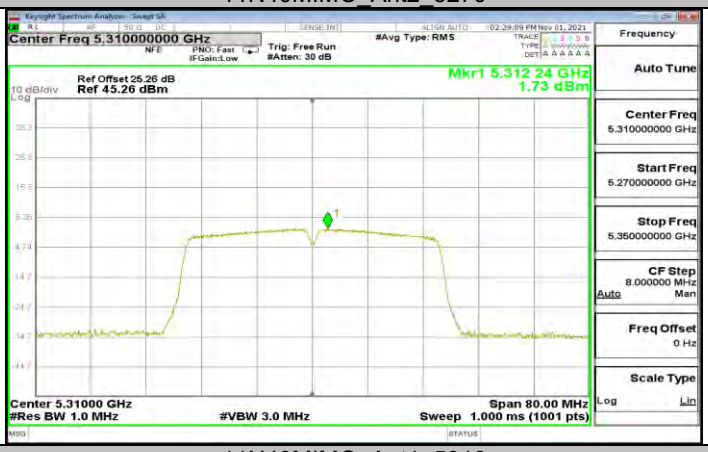
11N40MIMO_Ant2_5230



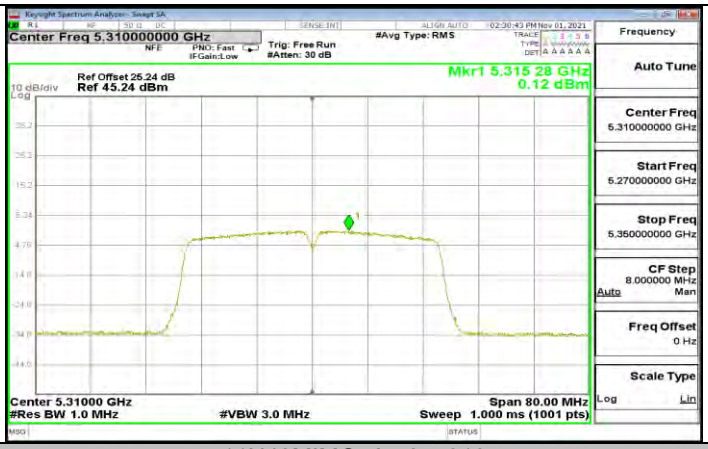
11N40MIMO_Ant1_5270



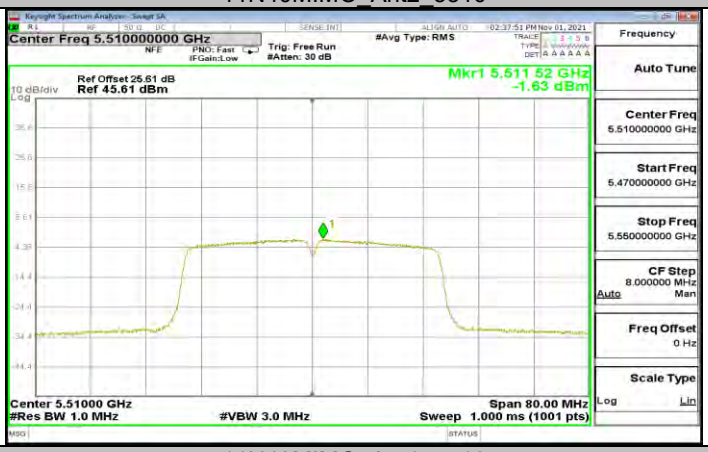
11N40MIMO_Ant2_5270



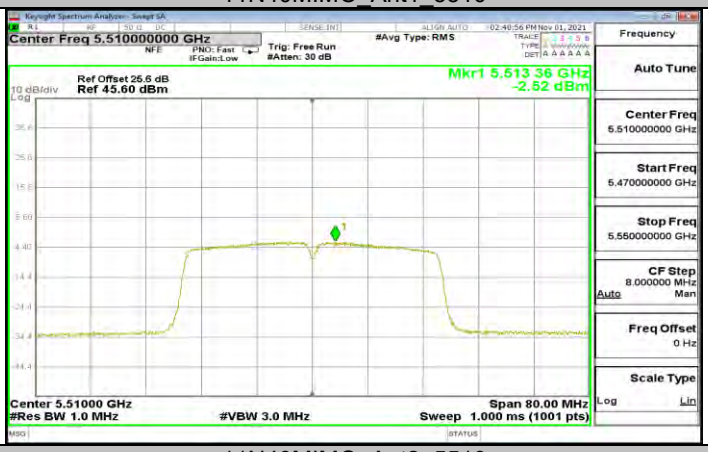
11N40MIMO_Ant1_5310



11N40MIMO_Ant2_5310

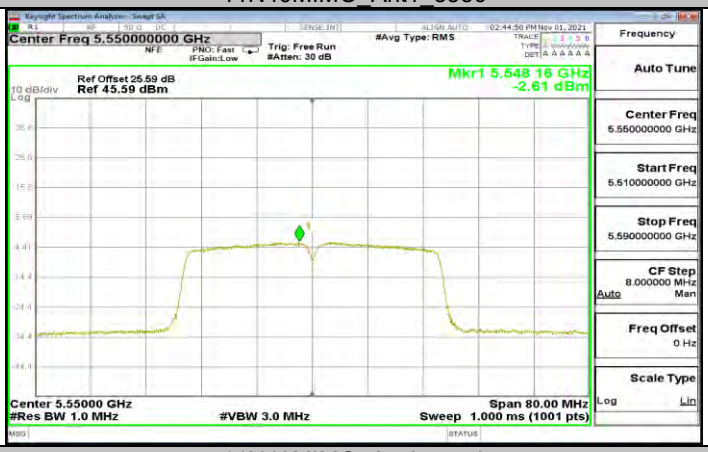


11N40MIMO_Ant1_5510

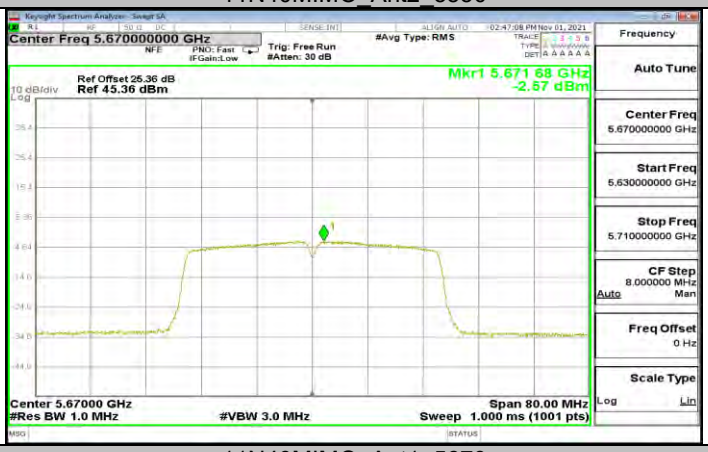


11N40MIMO_Ant2_5510

11N40MIMO_Ant1_5550

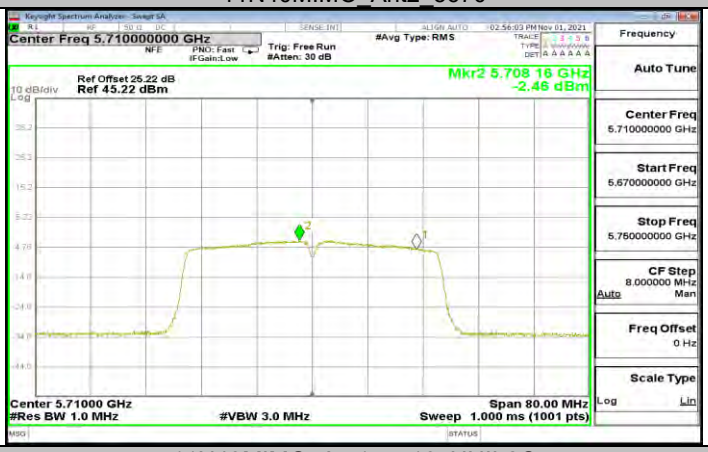


11N40MIMO_Ant2_5550



11N40MIMO_Ant1_5670

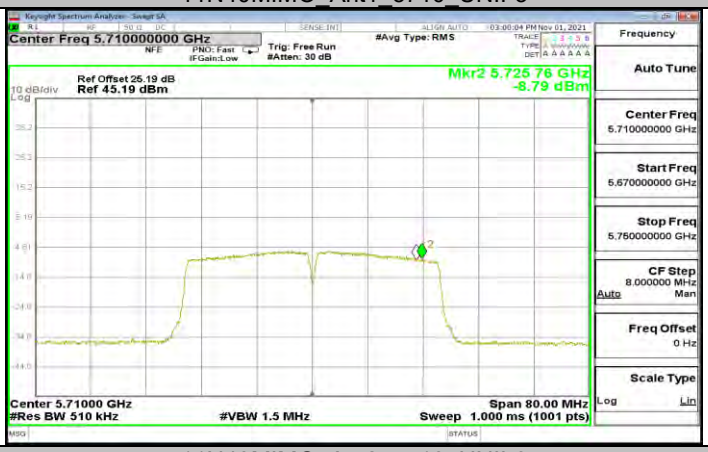
11N40MIMO_Ant2_5670



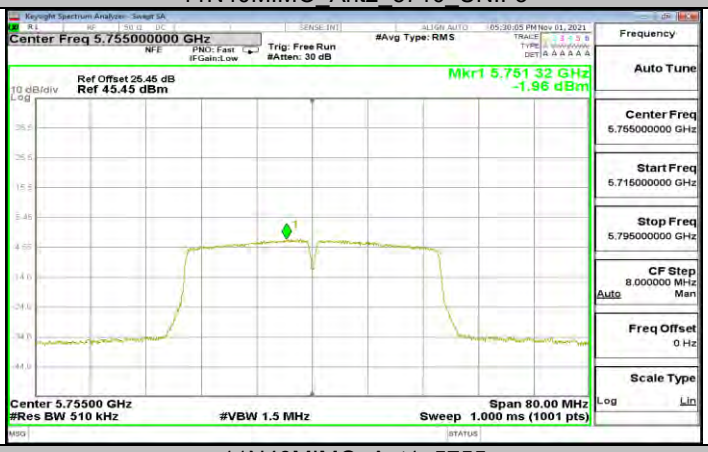
11N40MIMO_Ant1_5710_UNII-2C

11N40MIMO_Ant2_5710_UNII-2C

11N40MIMO_Ant1_5710_UNII-3

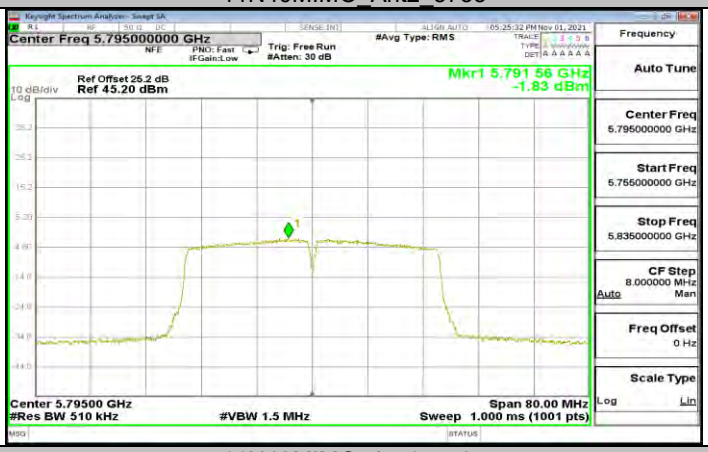


11N40MIMO_Ant2_5710_UNII-3

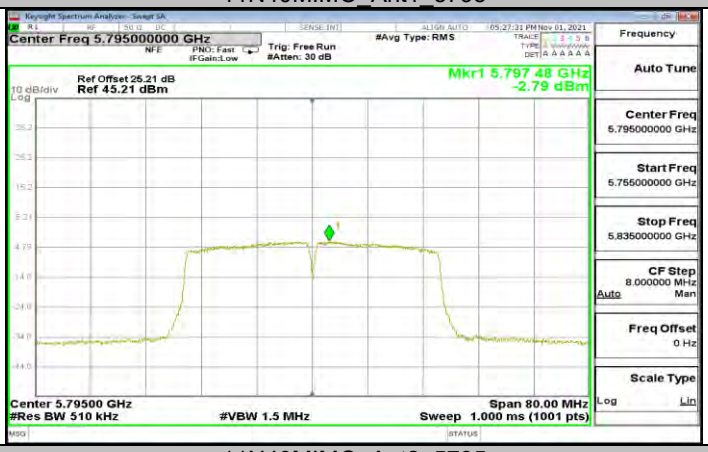


11N40MIMO_Ant1_5755

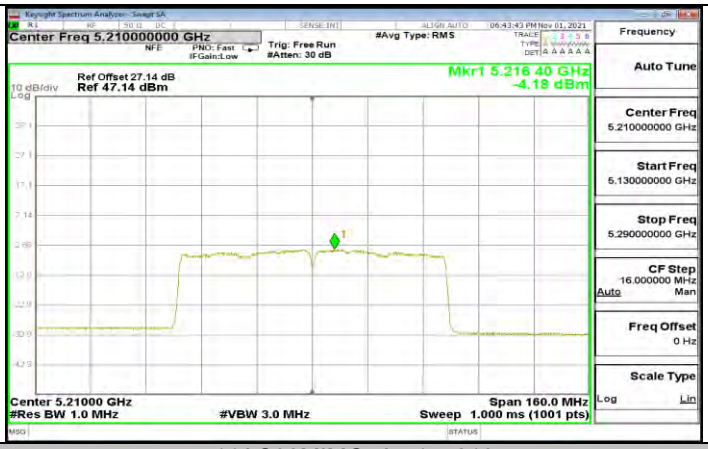
11N40MIMO_Ant2_5755



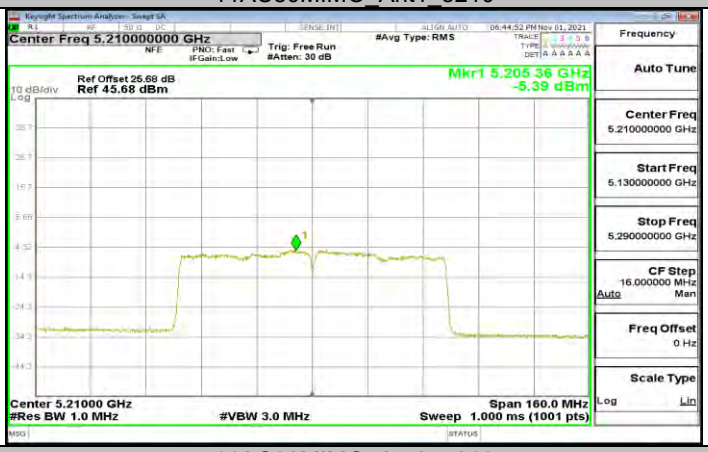
11N40MIMO_Ant1_5795



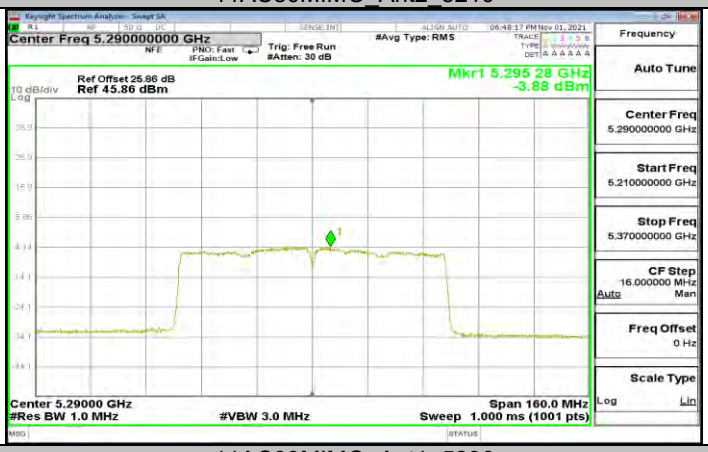
11N40MIMO_Ant2_5795



11AC80MIMO_Ant1_5210

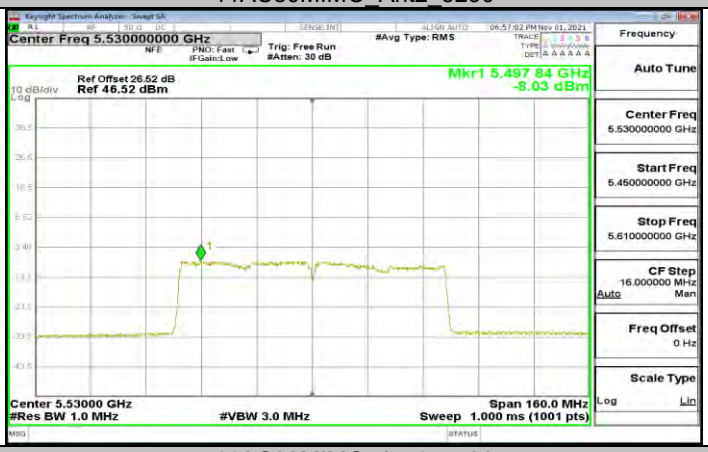


11AC80MIMO_Ant2_5210

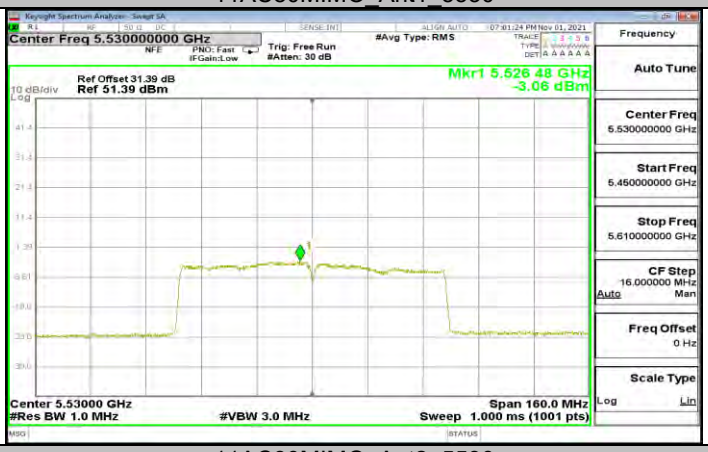


11AC80MIMO_Ant1_5290

11AC80MIMO_Ant2_5290

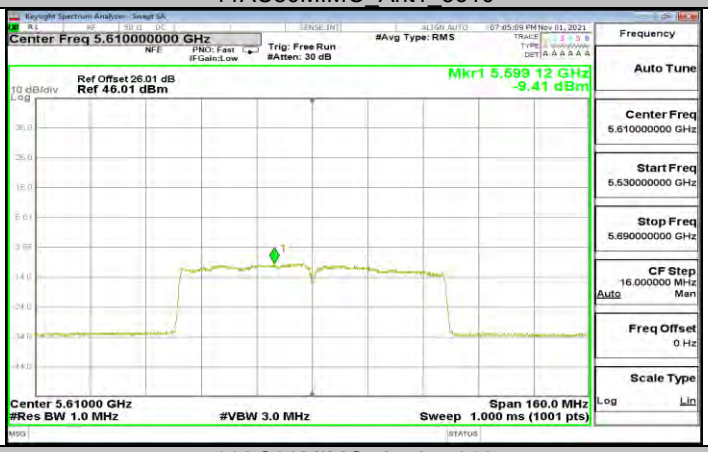


11AC80MIMO_Ant1_5530



11AC80MIMO_Ant2_5530

11AC80MIMO_Ant1_5610

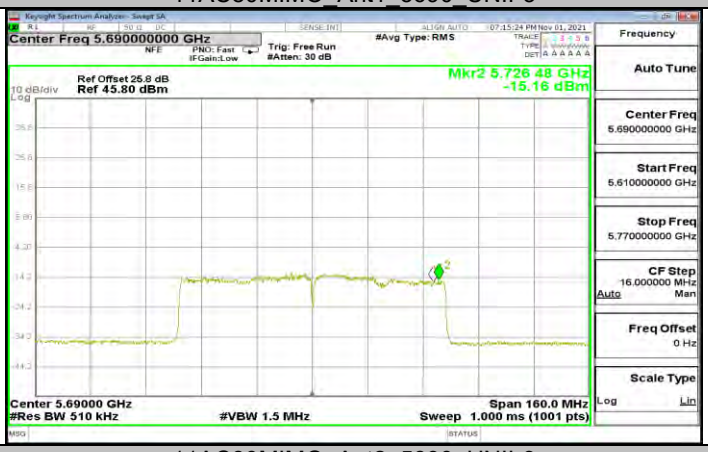


11AC80MIMO_Ant2_5610

11AC80MIMO_Ant1_5690_UNII-2C

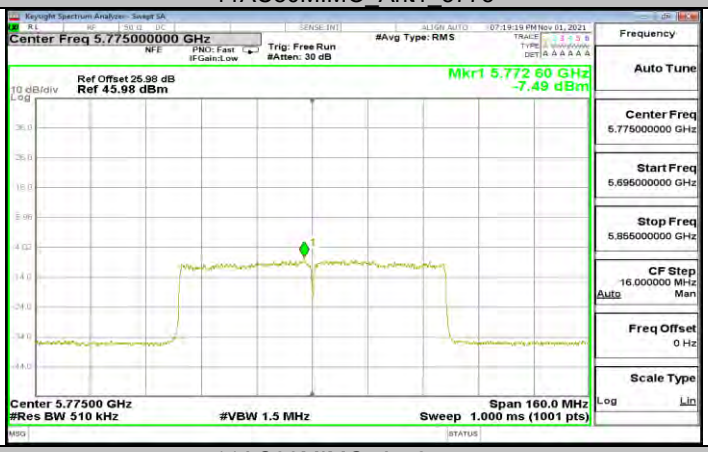
11AC80MIMO_Ant2_5690_UNII-2C

11AC80MIMO_Ant1_5690_UNII-3



11AC80MIMO_Ant2_5690_UNII-3

11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775

12.6. Appendix D: Duty Cycle

12.6.1. Test Result

Test 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	1.40	1.43	0.9790	97.90	0.09	0.71	1
11N20MIMO	1.30	1.33	0.9774	97.74	0.10	0.77	1
11N40MIMO	0.65	0.68	0.9559	95.59	0.20	1.54	2
11AC80MIMO	0.96	1.56	0.6154	61.54	2.11	1.04	2

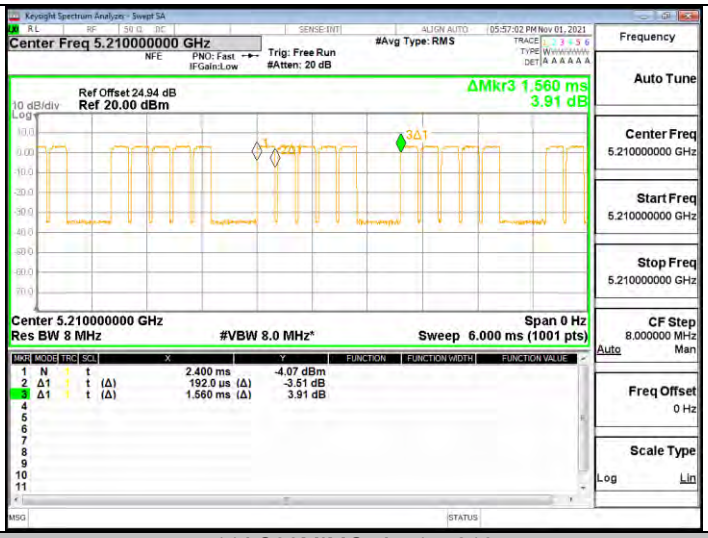
Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

12.6.2. Test Graphs

11A_Ant1_5180

11N20MIMO_Ant1_5180

11N40MIMO_Ant1_5190



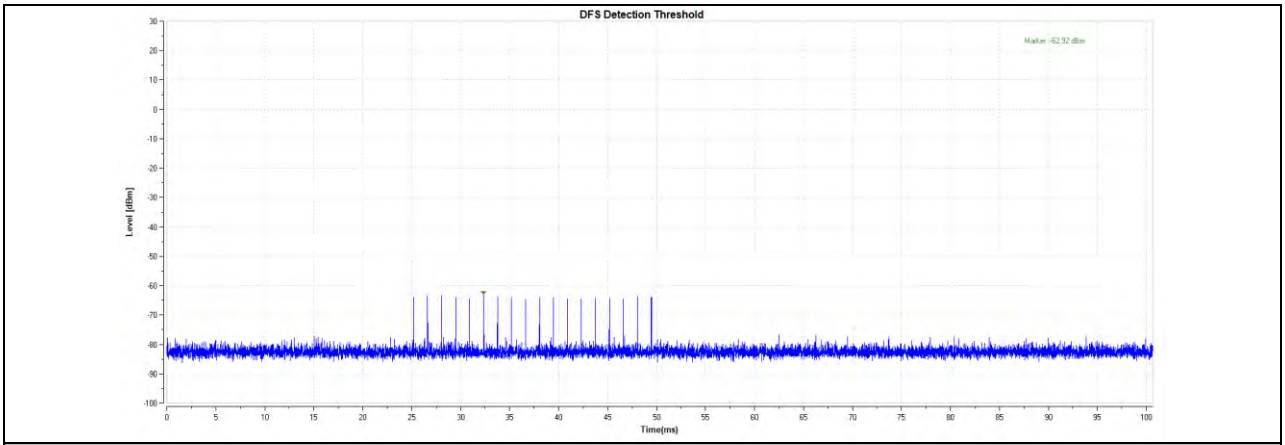
11AC80MIMO_Ant1_5210

12.7. Appendix E: Dynamic Frequency Selection

Radar Signal Test Result

Test Mode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC80SISO	5530	Type0	-62.92	-59.00	PASS

Radar Signal Test Graphs



11AC80SISO_5530_Type0

DFS In-Service Monitoring (5530 MHz;802.11ac VHT 80 Mode)

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	Channel Move Time	PASS
5530.000000	0	Channel Closing Transmission Time	PASS
5530.000000	0	Non-occupancy period	PASS

Channel Move Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CMT Tx Time (s)	CMT Limit (s)	CMT Result
5530.000000	0	0.471	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	2	0.604
5530.000000	0	remaining 10.0 second(s) period	3	0.900

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

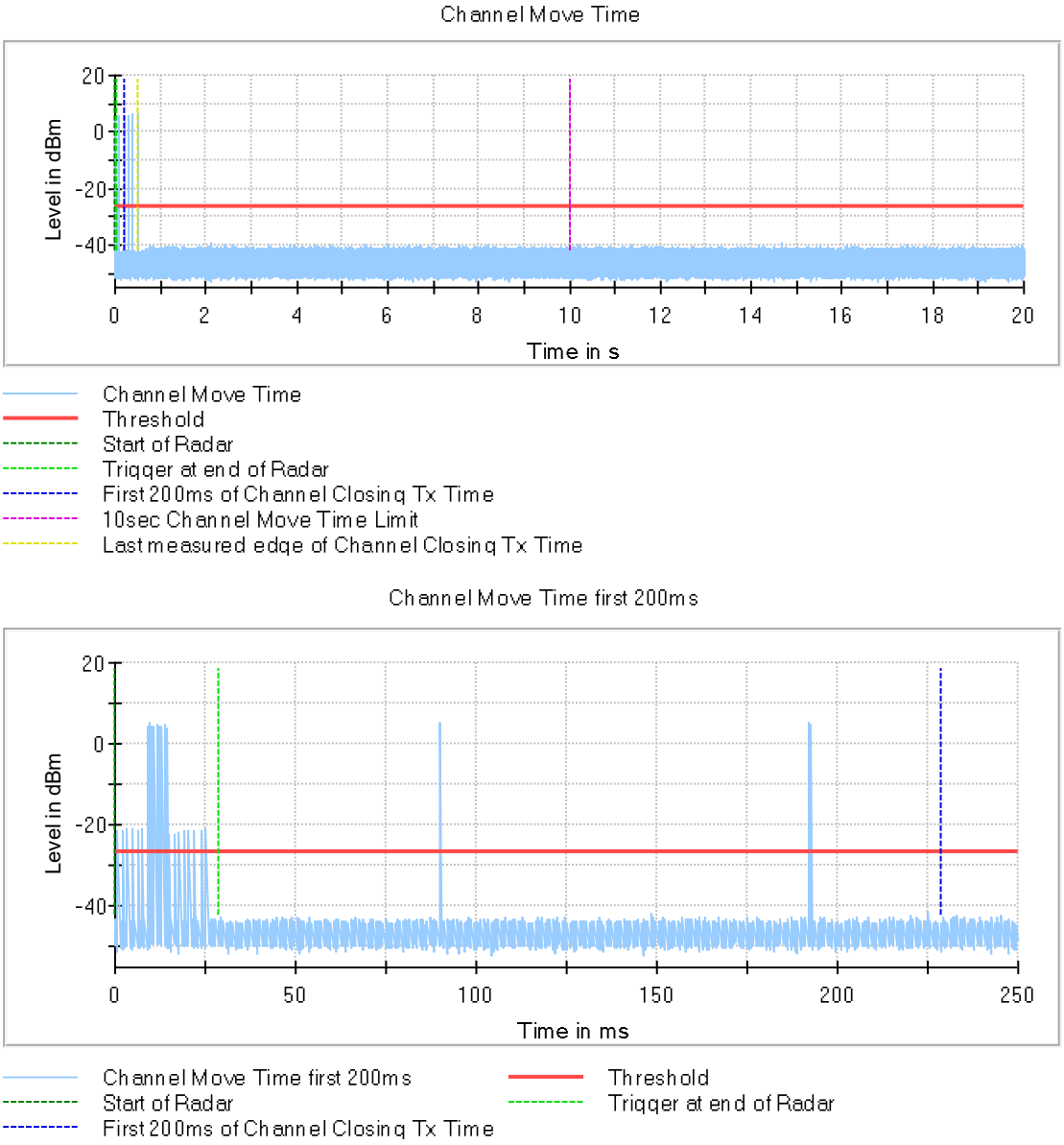
DUT Frequency (MHz)	CCTT Tx Time Limit (ms)	CCTT Result	CCTT Comment
5530.000000	200.000	PASS	See Note 1.
5530.000000	60.000	PASS	See Note 1.

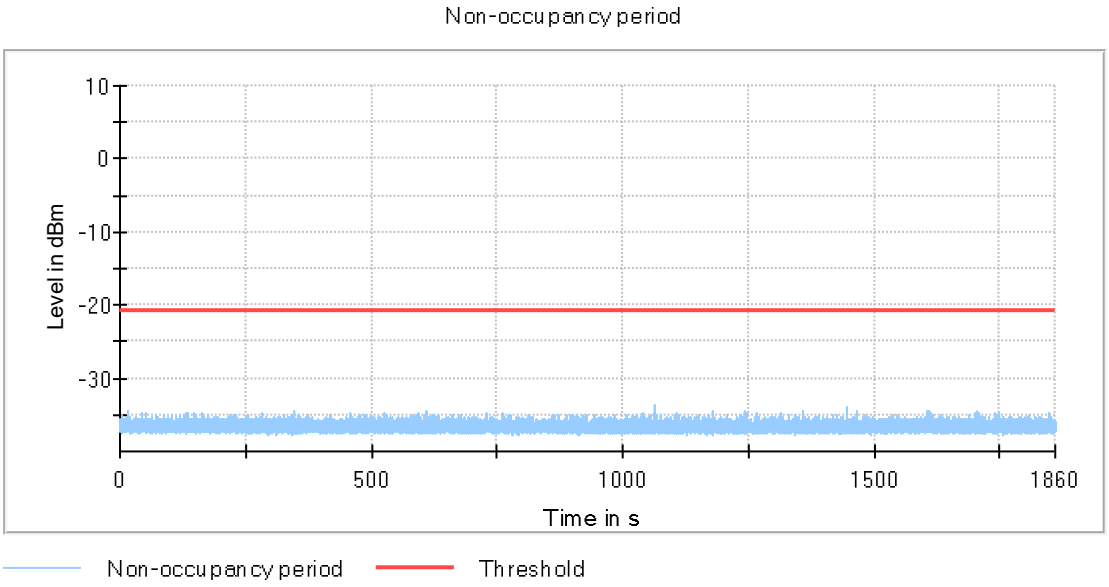
Non-occupancy period Detailed Results

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
5530.000000	PASS





12.8. Appendix H: Frequency Stability

12.8.1. Test Result

Frequency Error vs. Voltage									
802.11a 20: 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)
TN	VL	5199.9833	-3.22	5199.9845	-2.98	5200.0101	1.94	5200.0227	4.36
TN	VN	5200.0111	2.13	5199.9873	-2.45	5199.9798	-3.89	5199.9840	-3.07
TN	VH	5199.9919	-1.55	5199.9947	-1.02	5199.9865	-2.60	5199.9860	-2.68
Frequency Error vs. Temperature									
802.11a 20: 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)
70	VN	5200.0039	0.74	5200.0249	4.79	5200.0100	1.92	5199.9975	-0.48
60	VN	5200.0070	1.34	5200.0183	3.51	5199.9776	-4.31	5199.9802	-3.80
50	VN	5199.9761	-4.60	5199.9894	-2.03	5200.0172	3.30	5199.9904	-1.85
40	VN	5200.0084	1.61	5199.9857	-2.75	5200.0204	3.92	5199.9879	-2.34
30	VN	5199.9971	-0.56	5199.9762	-4.57	5199.9964	-0.69	5199.9784	-4.15
20	VN	5200.0040	0.76	5200.0147	2.83	5199.9767	-4.47	5200.0198	3.82
10	VN	5199.9972	-0.54	5200.0142	2.73	5199.9852	-2.84	5199.9923	-1.47
0	VN	5200.0201	3.86	5200.0214	4.11	5199.9942	-1.11	5200.0136	2.62

Note:
1. All antennas and test modes have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 10 TEST ENVIRONMENT.

Frequency Error vs. Voltage									
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)
TN	VL	5825.0001	0.02	5824.9771	-3.93	5824.9983	-0.29	5825.0011	0.19
TN	VN	5825.0135	2.32	5824.9992	-0.13	5825.0037	0.64	5825.0215	3.69
TN	VH	5824.9758	-4.15	5824.9751	-4.27	5824.9885	-1.97	5824.9822	-3.06
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)
70	VN	5825.0223	3.83	5824.9936	-1.10	5824.9983	-0.29	5825.0141	2.42
60	VN	5824.9917	-1.42	5824.9986	-0.25	5825.0006	0.10	5825.0203	3.48
50	VN	5825.0083	1.43	5825.0229	3.93	5824.9884	-2.00	5824.9961	-0.67
40	VN	5825.0159	2.72	5825.0016	0.27	5825.0239	4.10	5825.0233	4.00
30	VN	5825.0066	1.13	5825.0002	0.04	5824.9865	-2.32	5825.0044	0.76
20	VN	5824.9765	-4.04	5825.0010	0.17	5825.0072	1.24	5825.0130	2.24
10	VN	5824.9822	-3.06	5825.0237	4.07	5824.9782	-3.74	5824.9913	-1.49
0	VN	5825.0239	4.10	5824.9922	-1.34	5824.9829	-2.93	5824.9772	-3.92

Note:
1. All antennas and test modes have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 10 TEST ENVIRONMENT.

END OF REPORT