

RF Test Data for RLAN(5.2G) (Conducted Measurement)**Product Name: SMARTPHONE****Trade Mark: HERITAGE****Test Model: P60 PRO+****FCC ID: 2A6U5-M6908M6904****Environmental Conditions**

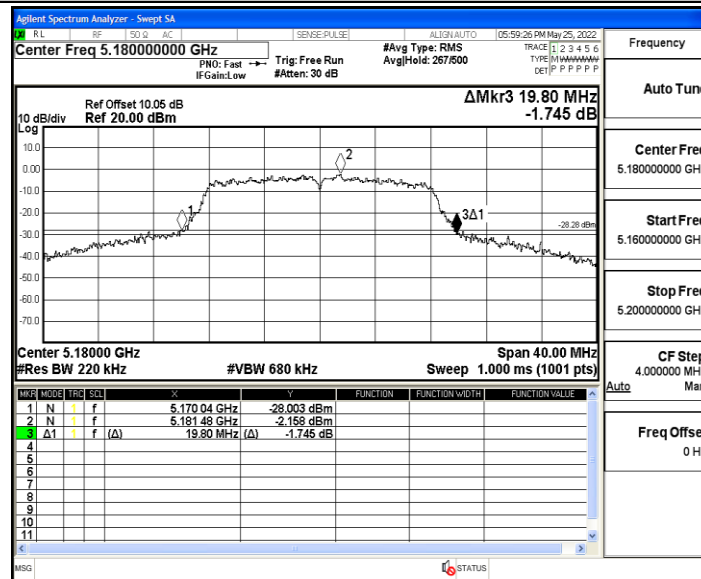
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A1: Emission Bandwidth**Test Result**

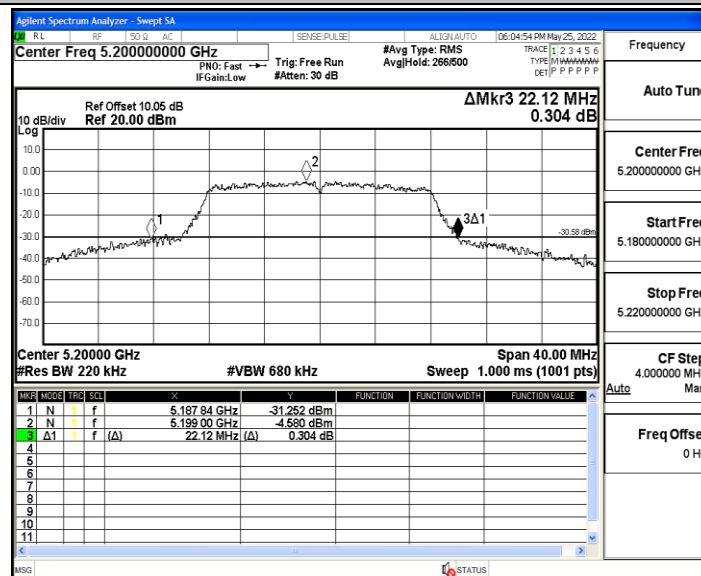
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.800	5170.040	5189.840	---	---
		5200	22.120	5187.840	5209.960	---	---
		5240	19.960	5230.120	5250.080	---	---
11N20MIMO	Ant1	5180	20.080	5169.720	5189.800	---	---
		5200	23.120	5188.640	5211.760	---	---
		5240	21.840	5228.160	5250.000	---	---
11N40MIMO	Ant1	5190	41.920	5167.920	5209.840	---	---
		5230	52.160	5197.840	5250.000	---	---

Test Graphs

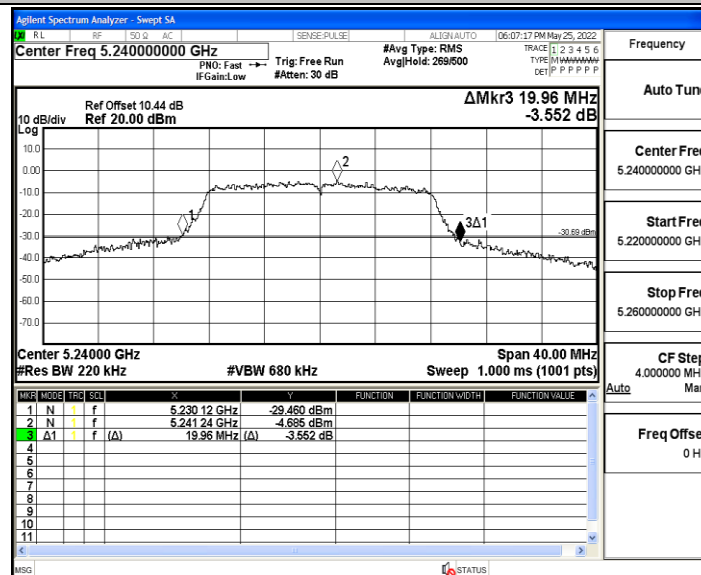
11A_Ant1_5180



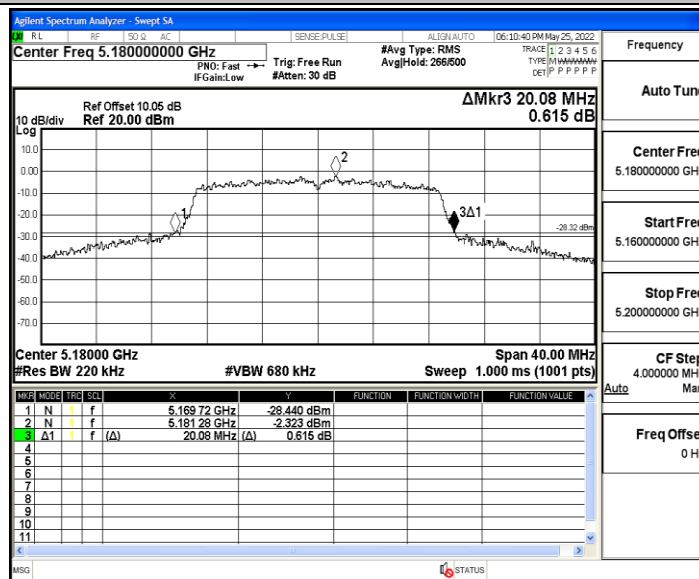
11A_Ant1_5200



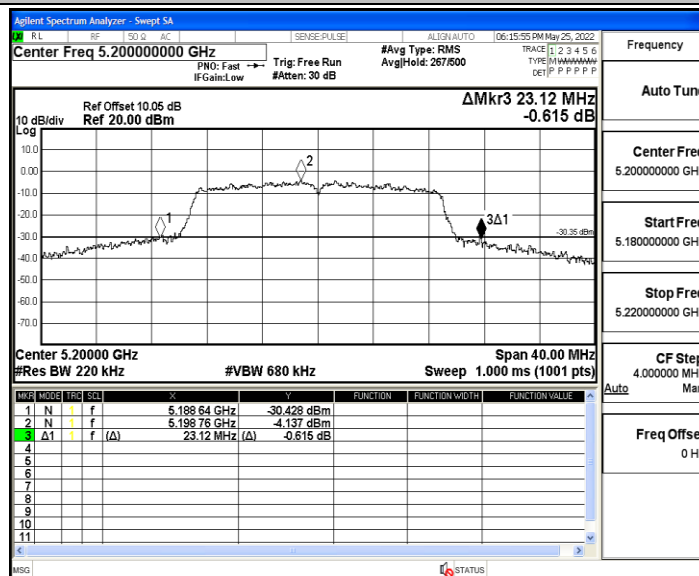
11A_Ant1_5240



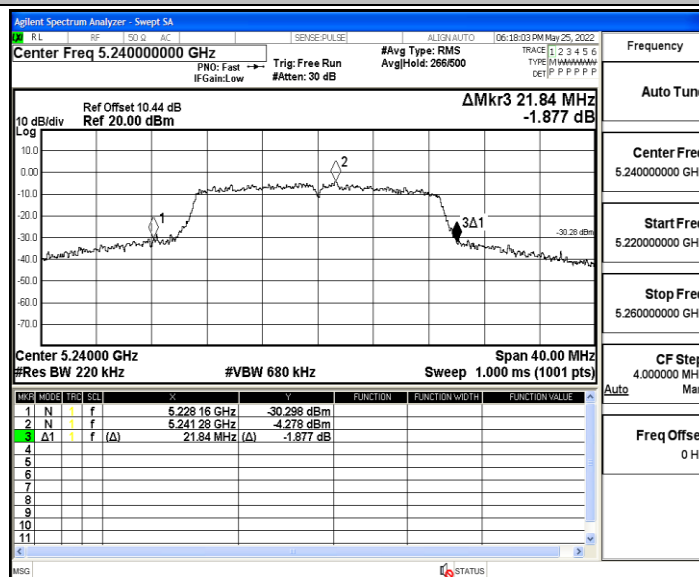
11N20MIMO_Ant1_5180



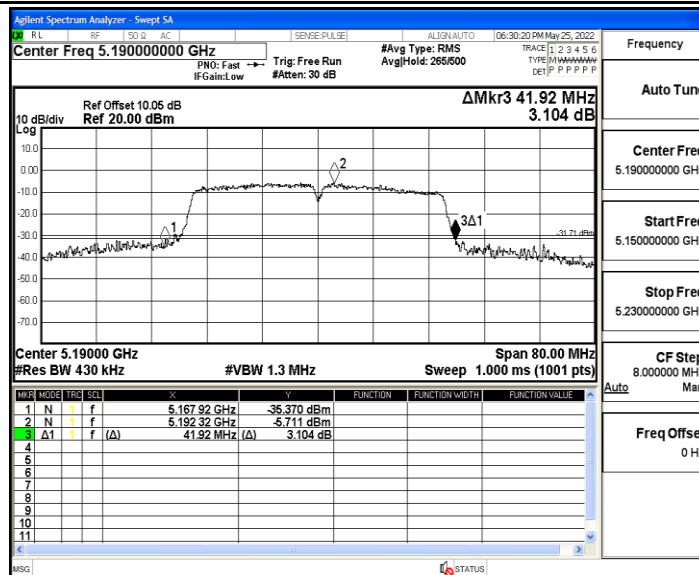
11N20MIMO_Ant1_5200



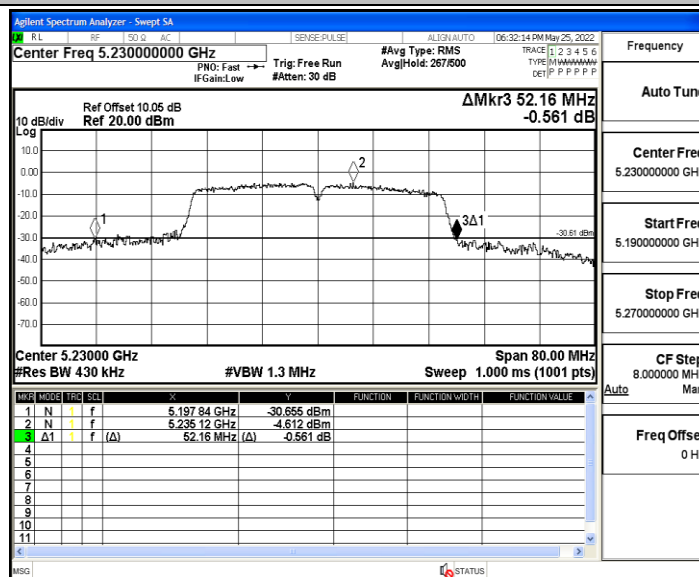
11N20MIMO_Ant1_5240



11N40MIMO_Ant1_5190



11N40MIMO_Ant1_5230



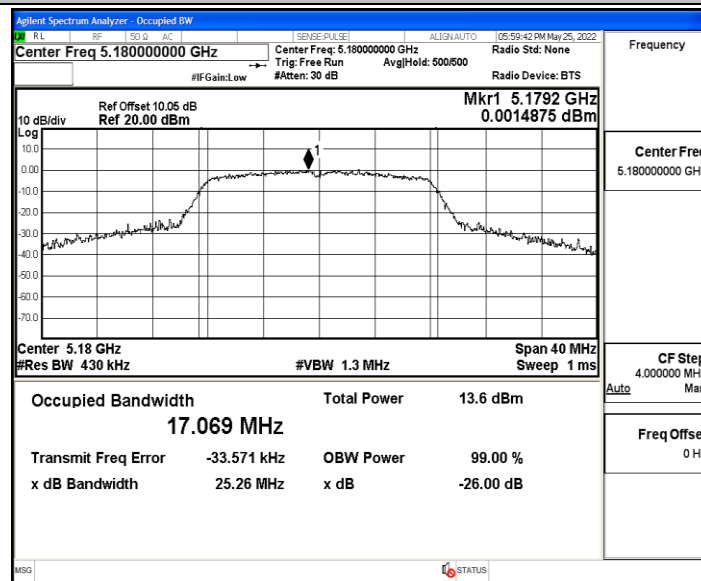
Appendix A2: Occupied channel bandwidth

Test Result

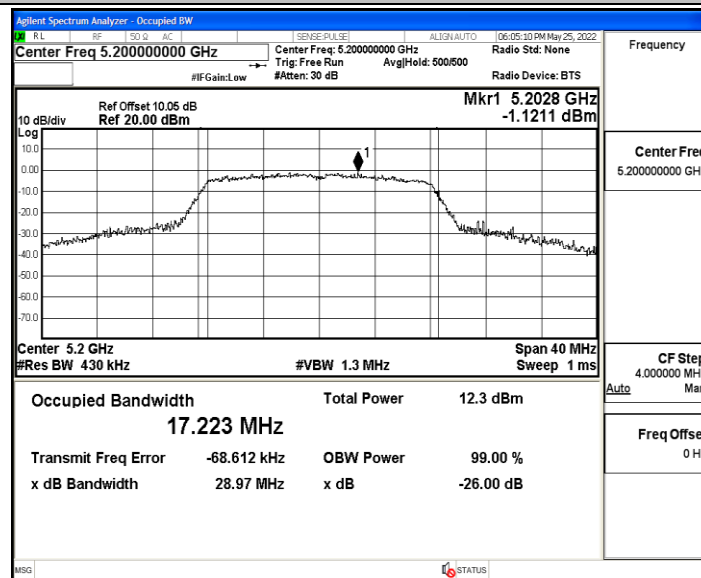
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.069	5171.432	5188.501	---	---
		5200	17.223	5191.320	5208.543	---	---
		5240	17.139	5231.337	5248.476	---	---
11N20MIMO	Ant1	5180	17.884	5171.032	5188.916	---	---
		5200	17.985	5190.957	5208.942	---	---
		5240	17.981	5230.950	5248.931	---	---
11N40MIMO	Ant1	5190	36.329	5171.752	5208.081	---	---
		5230	36.436	5211.656	5248.092	---	---

Test Graphs

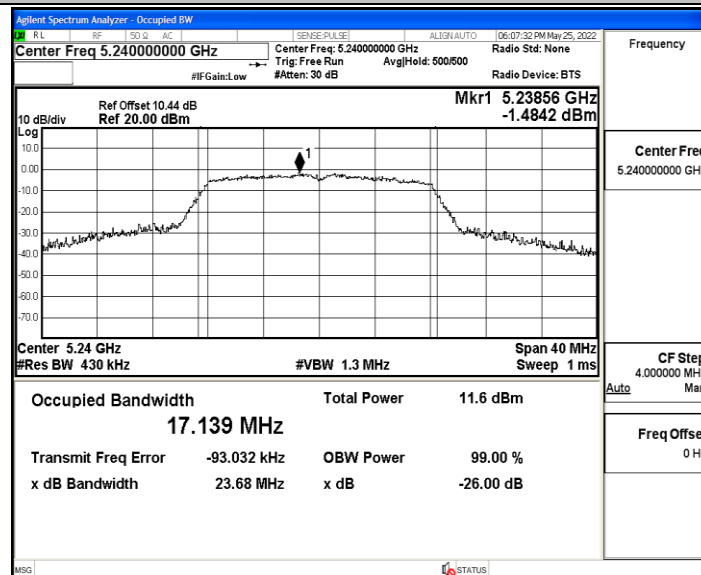
11A_Ant1_5180



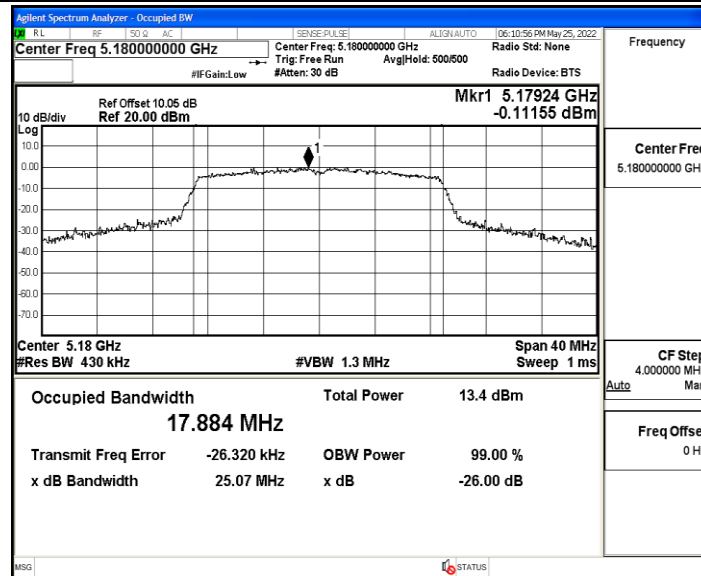
11A_Ant1_5200



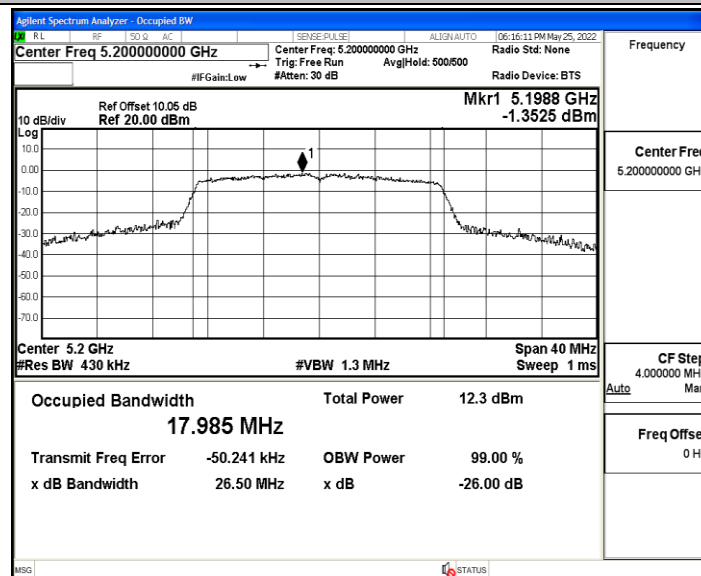
11A_Ant1_5240



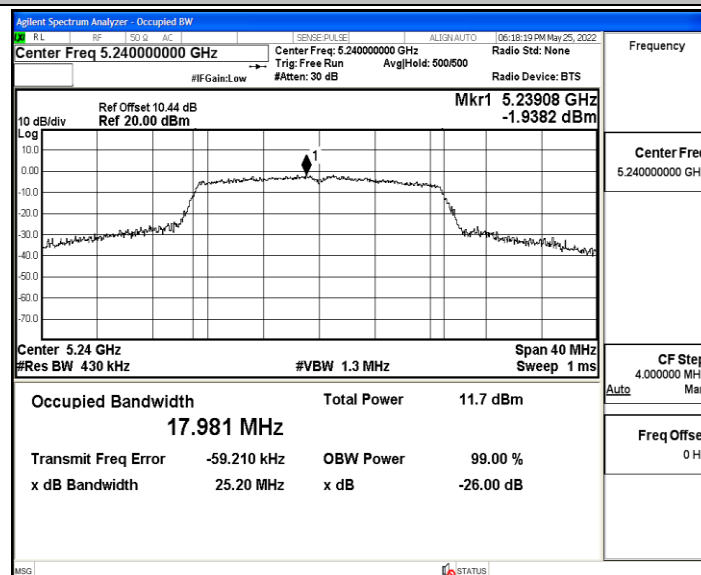
11N20MIMO_Ant1_5180



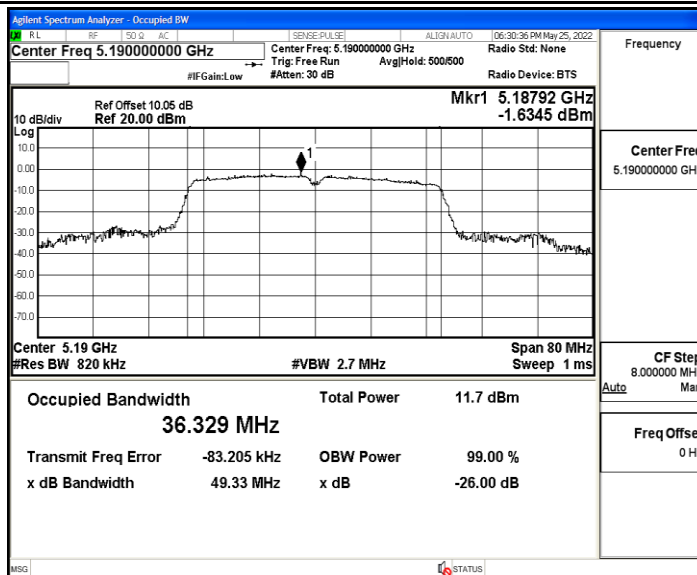
11N20MIMO_Ant1_5200



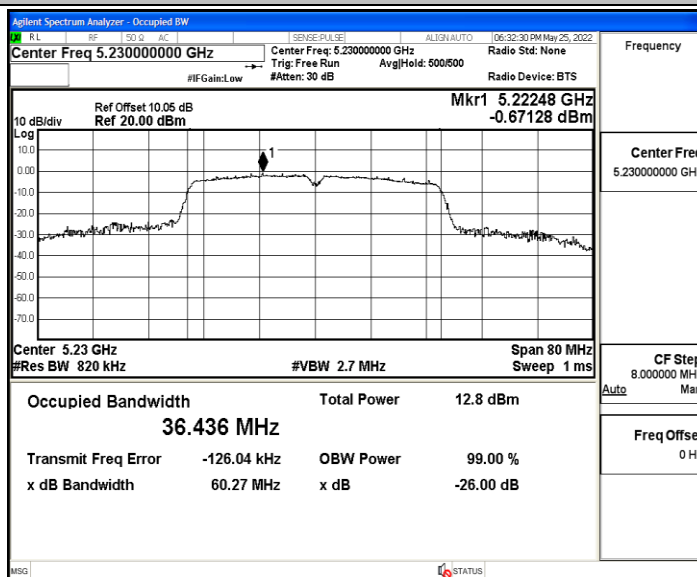
11N20MIMO_Ant1_5240



11N40MIMO_Ant1_5190



11N40MIMO_Ant1_5230



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	6.72	≤23.98	PASS
		5200	5.40	≤23.98	PASS
		5240	4.81	≤23.98	PASS
11N20MIMO	Ant1	5180	6.62	≤23.98	PASS
		5200	5.46	≤23.98	PASS
		5240	4.83	≤23.98	PASS
11N40MIMO	Ant1	5190	4.44	≤23.98	PASS
		5230	5.47	≤23.98	PASS

Note: The Duty Cycle Factor is compensated in the test result.

Appendix C: Maximum power spectral density

Test Result

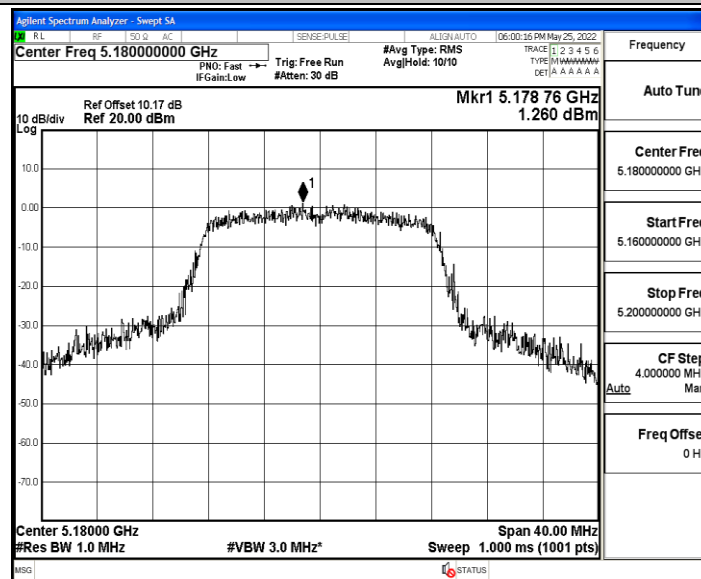
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	1.26	≤11.00	PASS
		5200	-0.03	≤11.00	PASS
		5240	-1.24	≤11.00	PASS
11N20MIMO	Ant1	5180	0.81	≤11.00	PASS
		5200	-0.21	≤11.00	PASS
		5240	-0.52	≤11.00	PASS
11N40MIMO	Ant1	5190	-4.14	≤11.00	PASS
		5230	-3.48	≤11.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

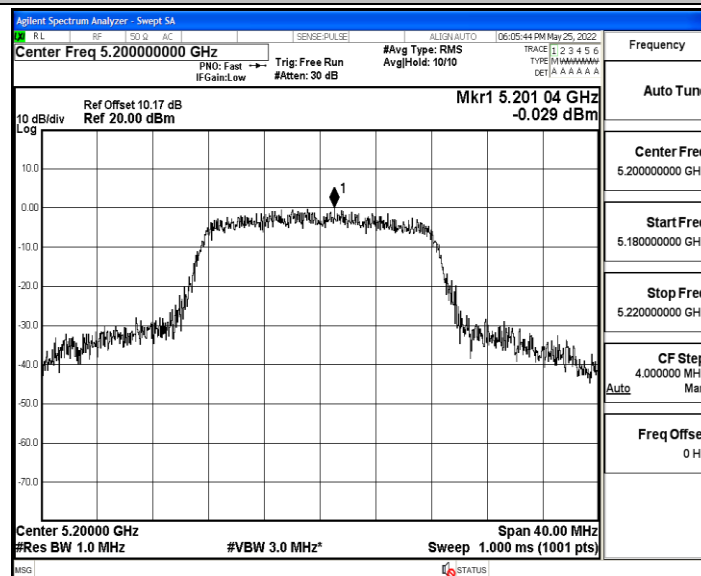
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

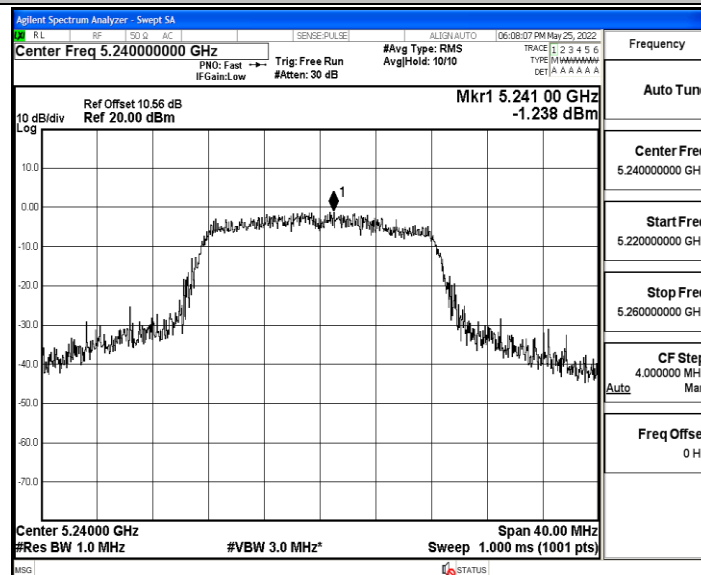
11A_Ant1_5180



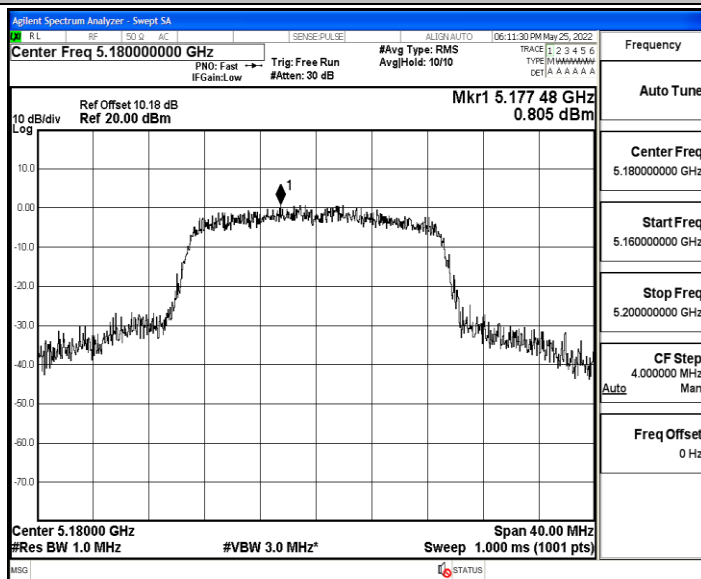
11A_Ant1_5200



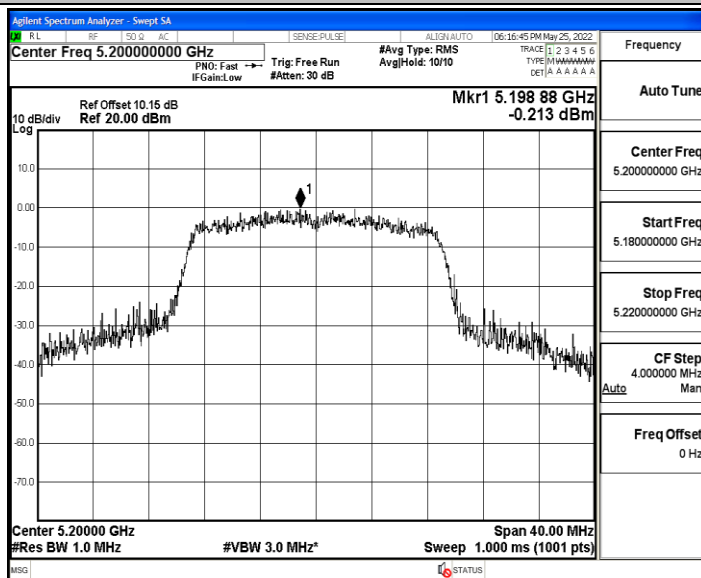
11A_Ant1_5240



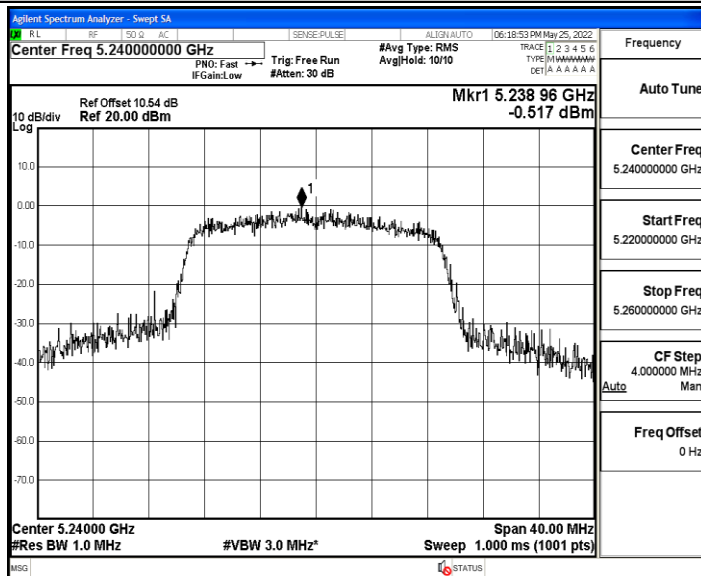
11N20MIMO_Ant1_5180



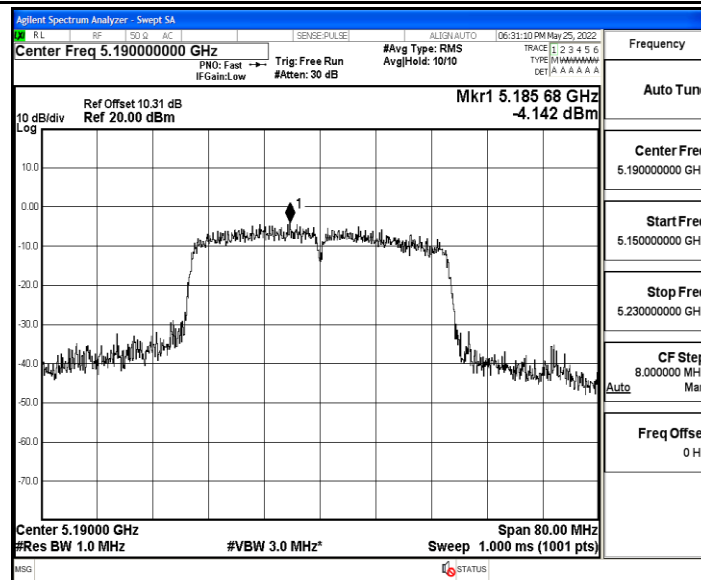
11N20MIMO_Ant1_5200



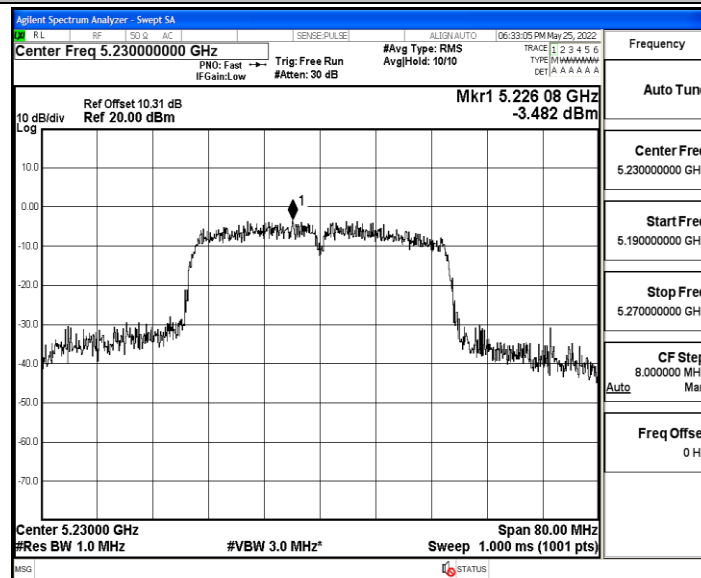
11N20MIMO_Ant1_5240



11N40MIMO_Ant1_5190



11N40MIMO_Ant1_5230



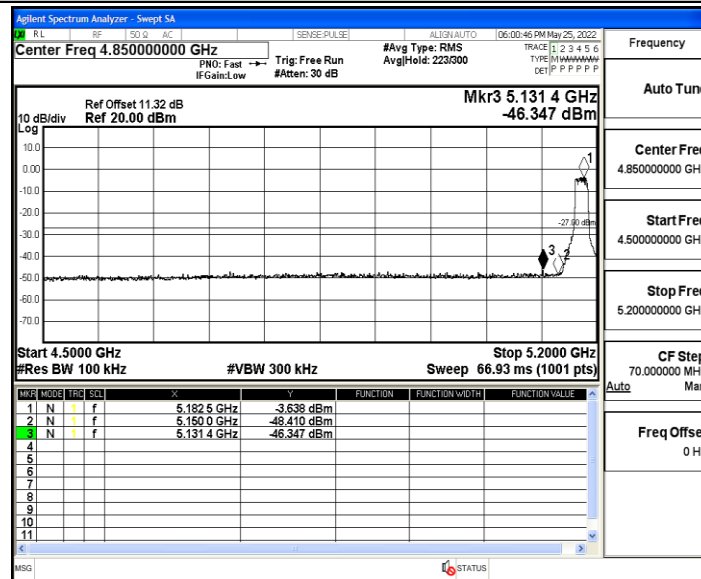
Appendix D: Band edge measurements

Test Result

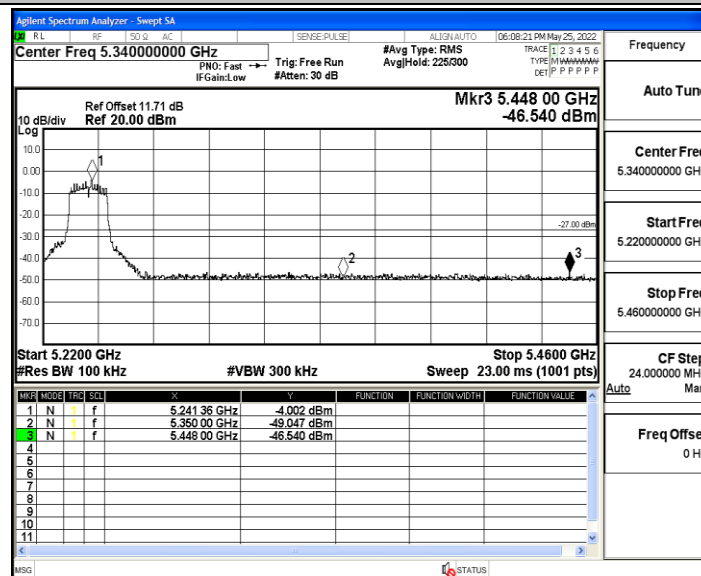
TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-46.35	≤ -27	PASS
		High	5240	-46.54	≤ -27	PASS
11N20MIMO	Ant1	Low	5180	-46.98	≤ -27	PASS
		High	5240	-46.39	≤ -27	PASS
11N40MIMO	Ant1	Low	5190	-43.1	≤ -27	PASS
		High	5230	-47.5	≤ -27	PASS

Test Graphs

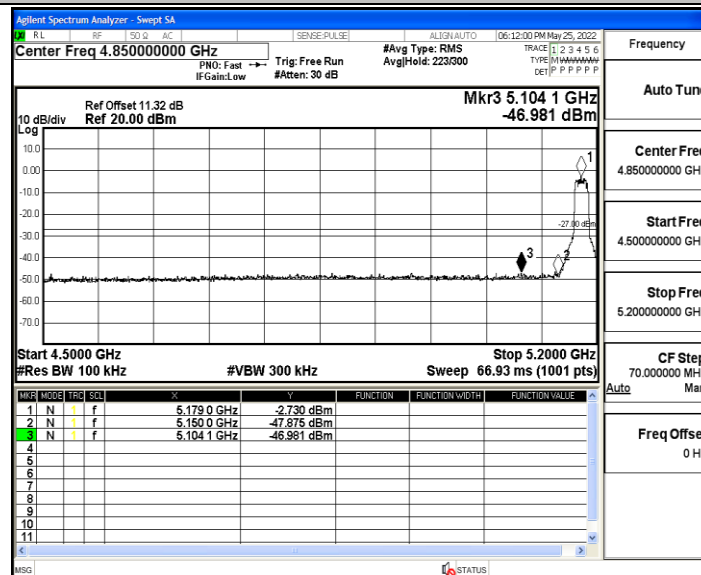
11A_Ant1_Low_5180



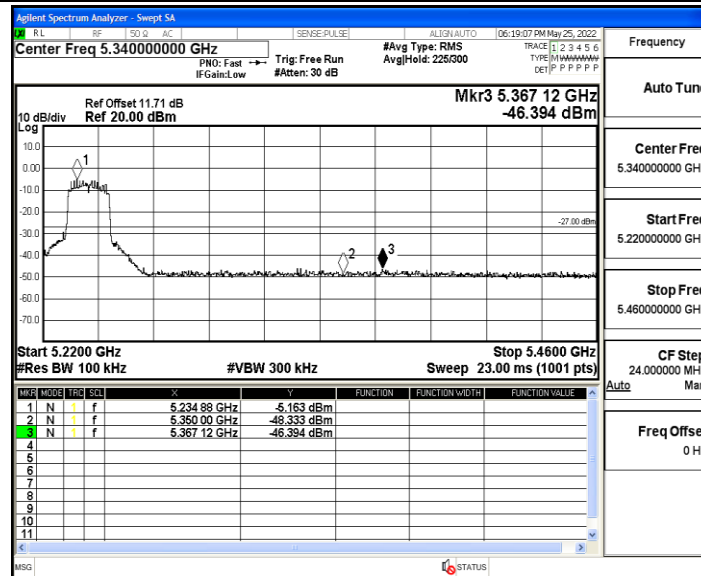
11A_Ant1_High_5240



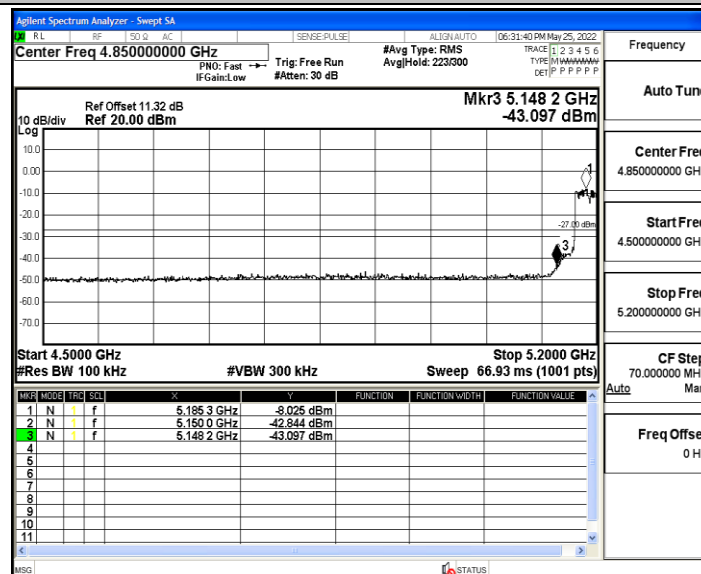
11N20MIMO_Ant1_Low_5180



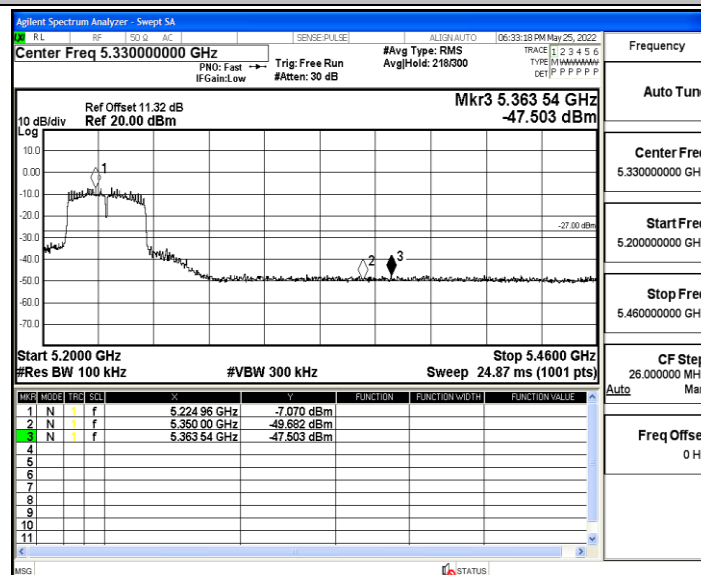
11N20MIMO_Ant1_High_5240



11N40MIMO_Ant1_Low_5190



11N40MIMO_Ant1_High_5230



Appendix E: Frequency Stability

Test Result

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	4.2	5180.005129	5150 – 5250	PASS
5180	20	3.5	5179.969335	5150 – 5250	PASS
5180	50	3.7	5180.034933	5150 – 5250	PASS
5180	40	3.7	5179.961207	5150 – 5250	PASS
5180	30	3.7	5179.944016	5150 – 5250	PASS
5180	20	3.7	5179.953366	5150 – 5250	PASS
5180	10	3.7	5179.926704	5150 – 5250	PASS
5180	0	3.7	5179.968161	5150 – 5250	PASS
5180	-10	3.7	5180.093015	5150 – 5250	PASS
5180	-20	3.7	5179.977630	5150 – 5250	PASS
5180	-30	3.7	5179.939434	5150 – 5250	PASS

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	4.2	5199.946412	5150 – 5250	PASS
5200	20	3.5	5200.094176	5150 – 5250	PASS
5200	50	3.7	5200.039637	5150 – 5250	PASS
5200	40	3.7	5199.934464	5150 – 5250	PASS
5200	30	3.7	5200.037124	5150 – 5250	PASS
5200	20	3.7	5200.046432	5150 – 5250	PASS
5200	10	3.7	5199.944760	5150 – 5250	PASS
5200	0	3.7	5199.947695	5150 – 5250	PASS
5200	-10	3.7	5199.921535	5150 – 5250	PASS
5200	-20	3.7	5200.068697	5150 – 5250	PASS
5200	-30	3.7	5200.019136	5150 – 5250	PASS

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	4.2	5240.022422	5150 – 5250	PASS
5240	20	3.5	5239.979973	5150 – 5250	PASS
5240	50	3.7	5239.911140	5150 – 5250	PASS
5240	40	3.7	5240.011221	5150 – 5250	PASS
5240	30	3.7	5240.076001	5150 – 5250	PASS
5240	20	3.7	5240.097196	5150 – 5250	PASS
5240	10	3.7	5239.964981	5150 – 5250	PASS
5240	0	3.7	5239.934266	5150 – 5250	PASS
5240	-10	3.7	5239.964559	5150 – 5250	PASS
5240	-20	3.7	5240.005501	5150 – 5250	PASS
5240	-30	3.7	5239.949387	5150 – 5250	PASS

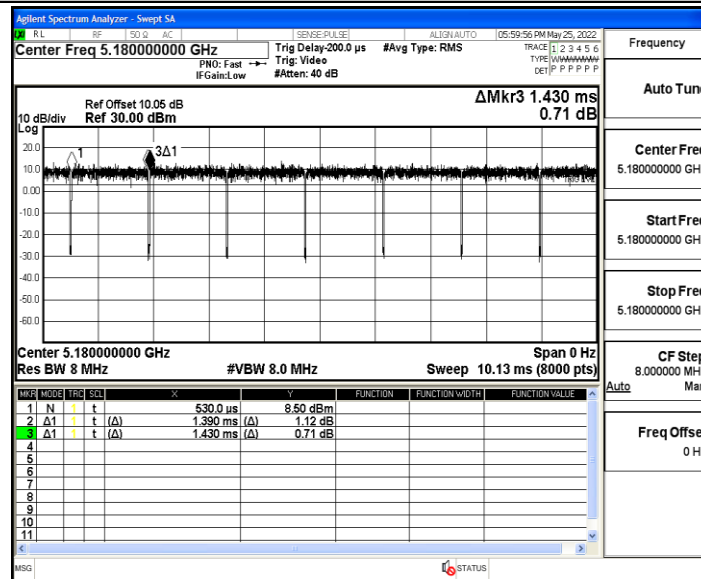
Appendix F: Duty Cycle

Test Result

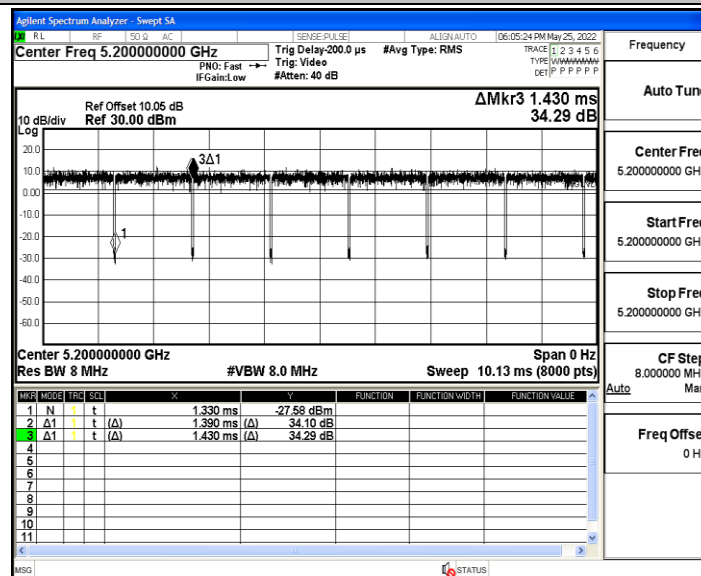
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]
11A	Ant1	5180	1.39	1.43	97.20	0.72
		5200	1.39	1.43	97.20	0.72
		5240	1.39	1.43	97.20	0.72
11N20MIMO	Ant1	5180	1.30	1.34	97.01	0.77
		5200	1.30	1.33	97.74	0.77
		5240	1.30	1.33	97.74	0.77
11N40MIMO	Ant1	5190	0.65	0.69	94.20	1.54
		5230	0.65	0.69	94.20	1.54

Test Graphs

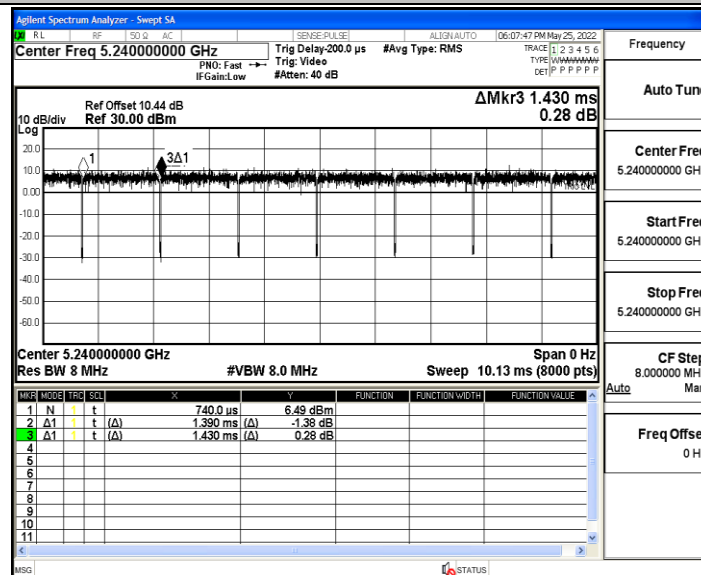
11A_Ant1_5180



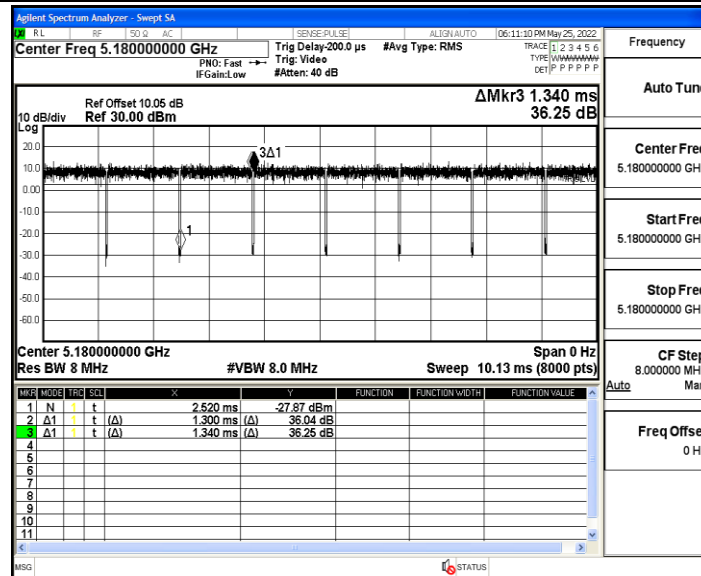
11A_Ant1_5200



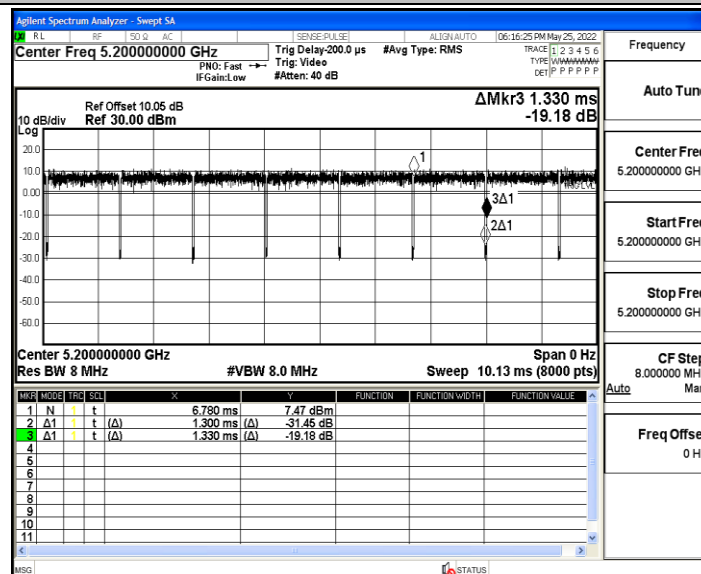
11A_Ant1_5240



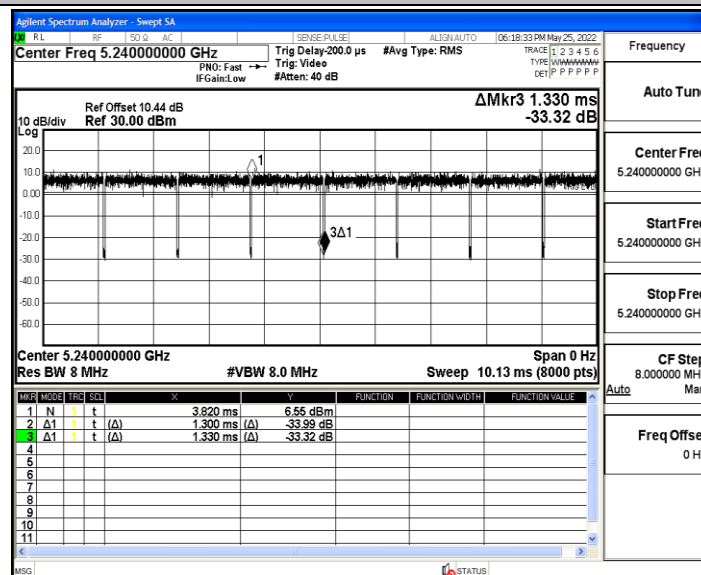
11N20MIMO_Ant1_5180



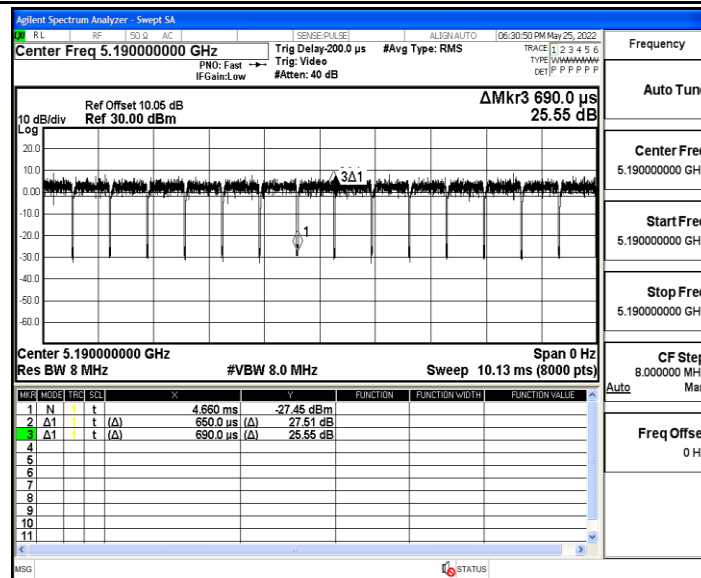
11N20MIMO_Ant1_5200



11N20MIMO_Ant1_5240



11N40MIMO_Ant1_5190



11N40MIMO_Ant1_5230

