

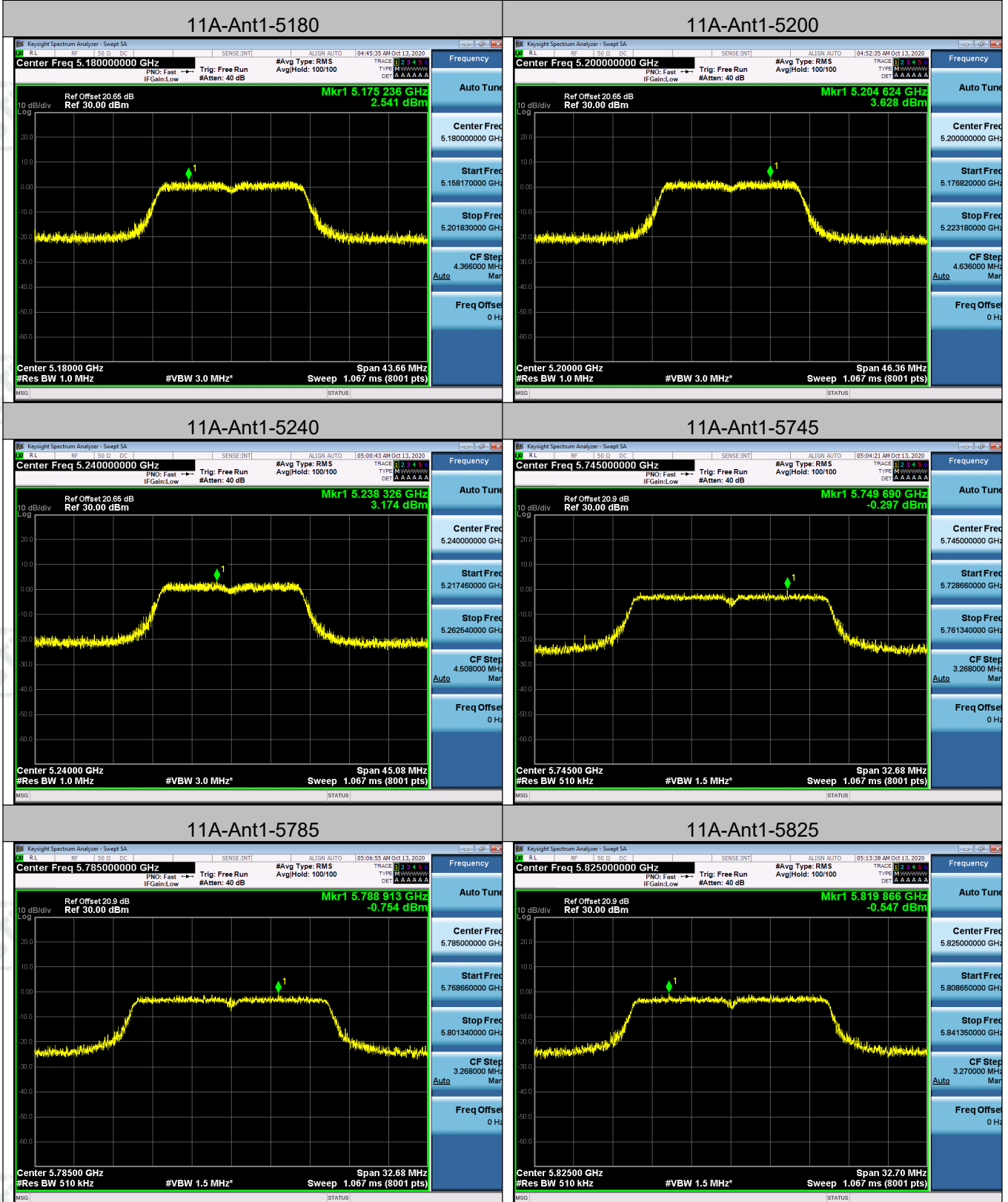
Appendix C): Power Spectral Density

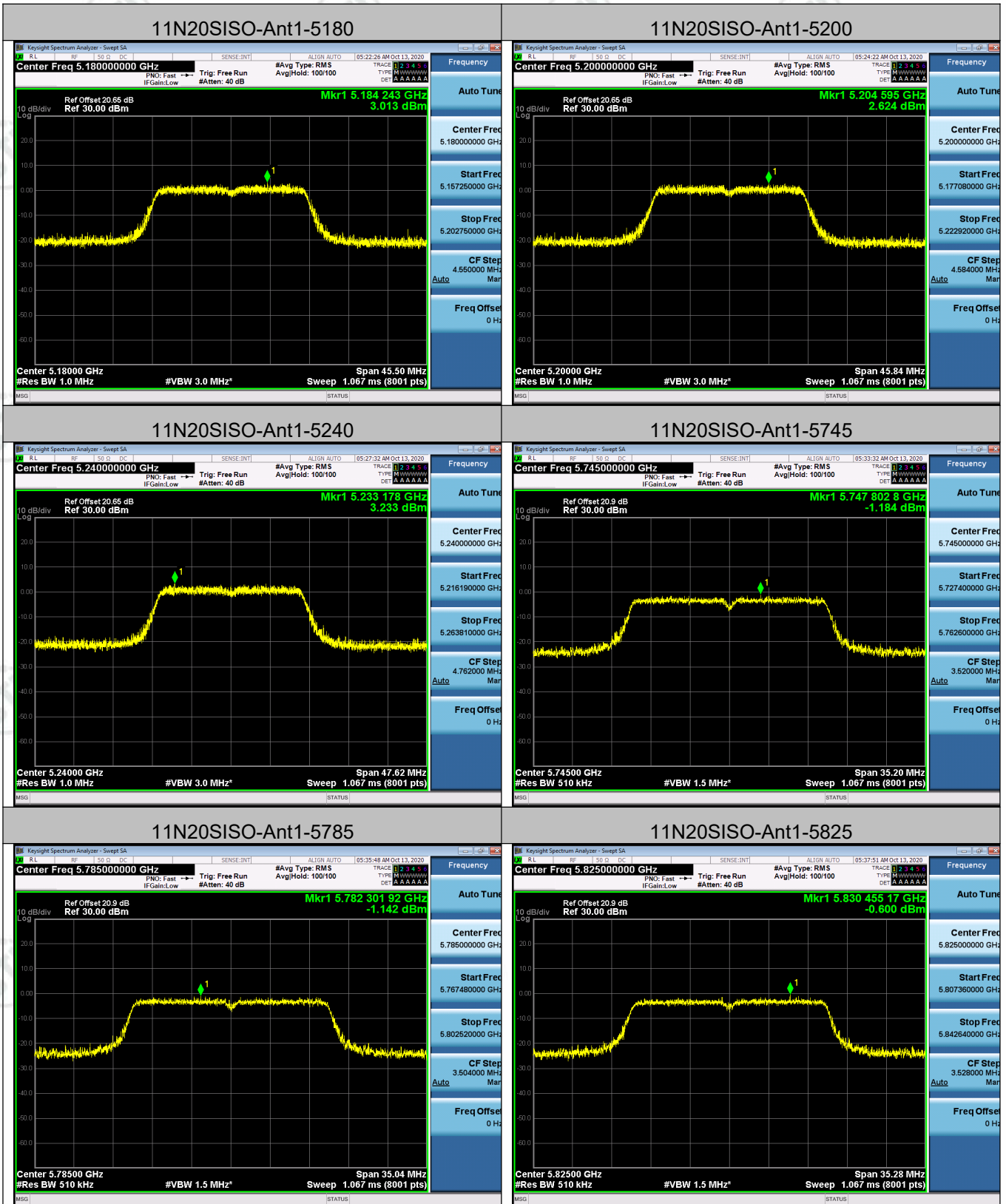
Result Table

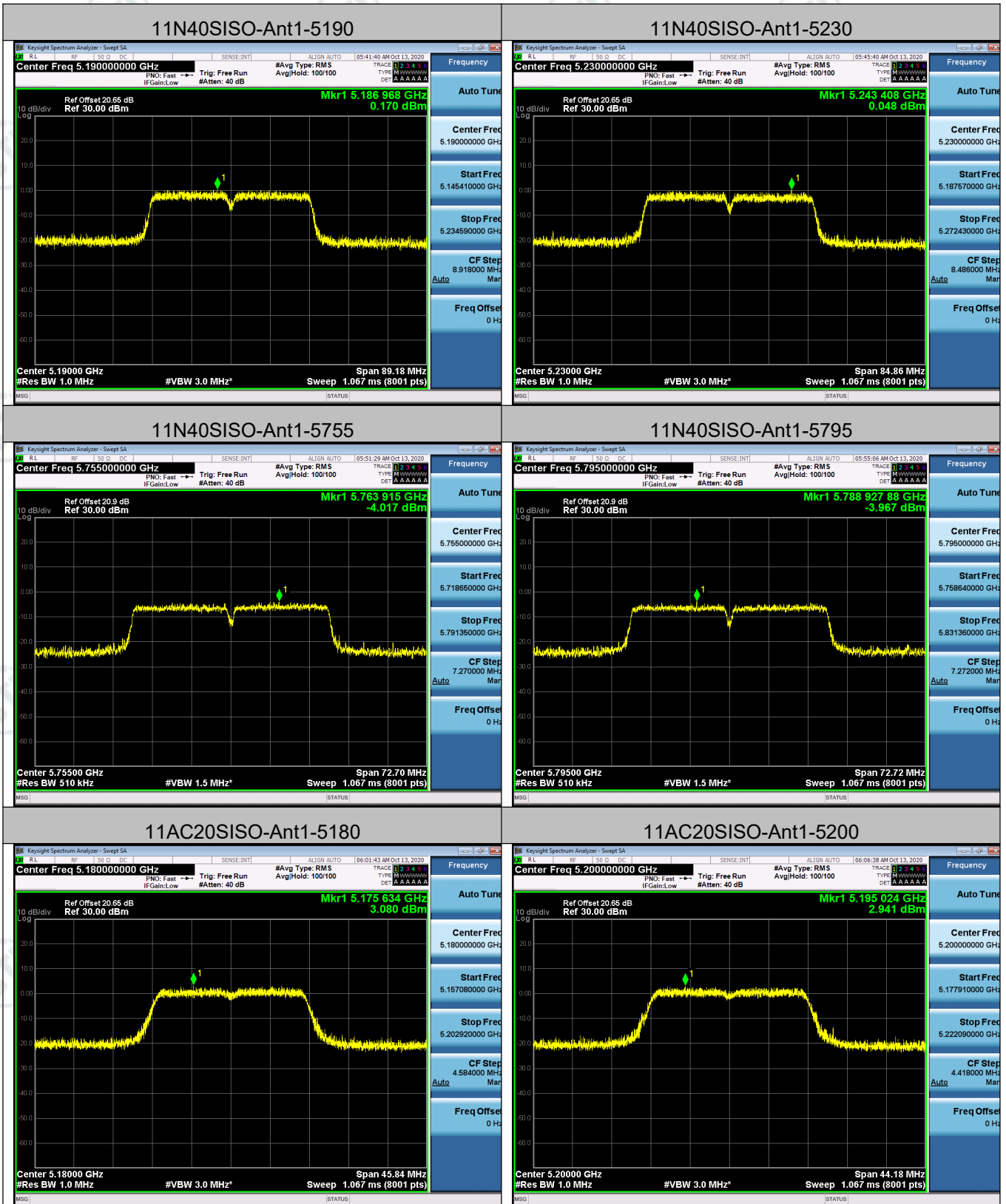
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11A	Ant1	5180	2.54	2.64	PASS
11A	Ant1	5200	3.63	3.73	PASS
11A	Ant1	5240	3.17	3.28	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11A	Ant1	5745	-0.30	-0.19	PASS
11A	Ant1	5785	-0.75	-0.65	PASS
11A	Ant1	5825	-0.55	-0.44	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N20SISO	Ant1	5180	3.01	3.12	PASS
11N20SISO	Ant1	5200	2.62	2.74	PASS
11N20SISO	Ant1	5240	3.23	3.34	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N20SISO	Ant1	5745	-1.18	-1.07	PASS
11N20SISO	Ant1	5785	-1.14	-1.03	PASS
11N20SISO	Ant1	5825	-0.60	-0.49	PASS

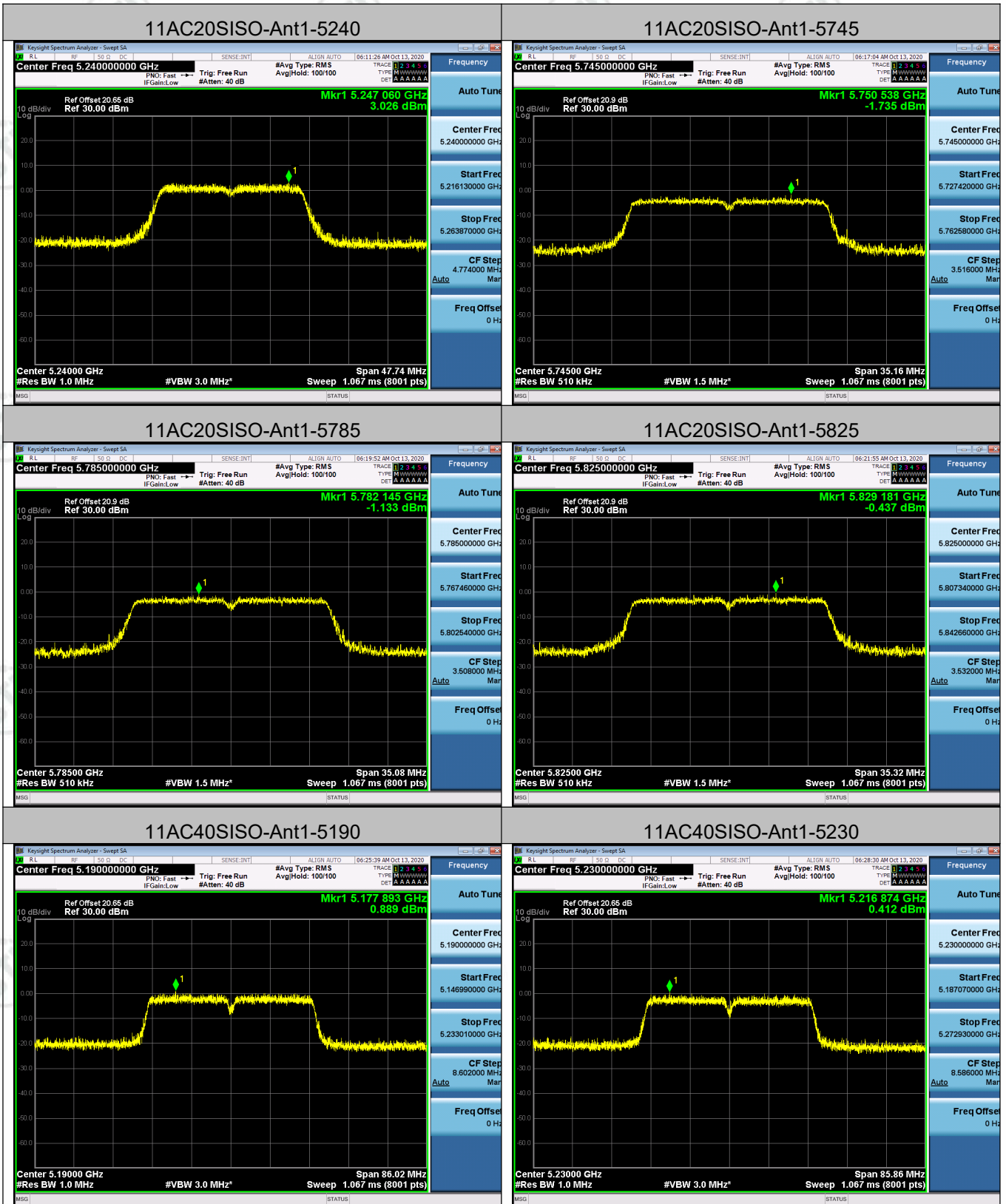
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N40SISO	Ant1	5190	0.17	0.39	PASS
11N40SISO	Ant1	5230	0.05	0.28	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N40SISO	Ant1	5755	-4.02	-3.79	PASS
11N40SISO	Ant1	5795	-3.97	-3.74	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC20SISO	Ant1	5180	3.08	3.19	PASS
11AC20SISO	Ant1	5200	2.94	3.05	PASS
11AC20SISO	Ant1	5240	3.03	3.14	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC20SISO	Ant1	5745	-1.74	-1.63	PASS
11AC20SISO	Ant1	5785	-1.13	-1.02	PASS
11AC20SISO	Ant1	5825	-0.44	-0.32	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC40SISO	Ant1	5190	0.89	1.12	PASS
11AC40SISO	Ant1	5230	0.41	0.63	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC40SISO	Ant1	5755	-4.00	-3.78	PASS
11AC40SISO	Ant1	5795	-3.61	-3.39	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC80SISO	Ant1	5210	0.46	0.92	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC80SISO	Ant1	5775	-4.56	-4.10	PASS

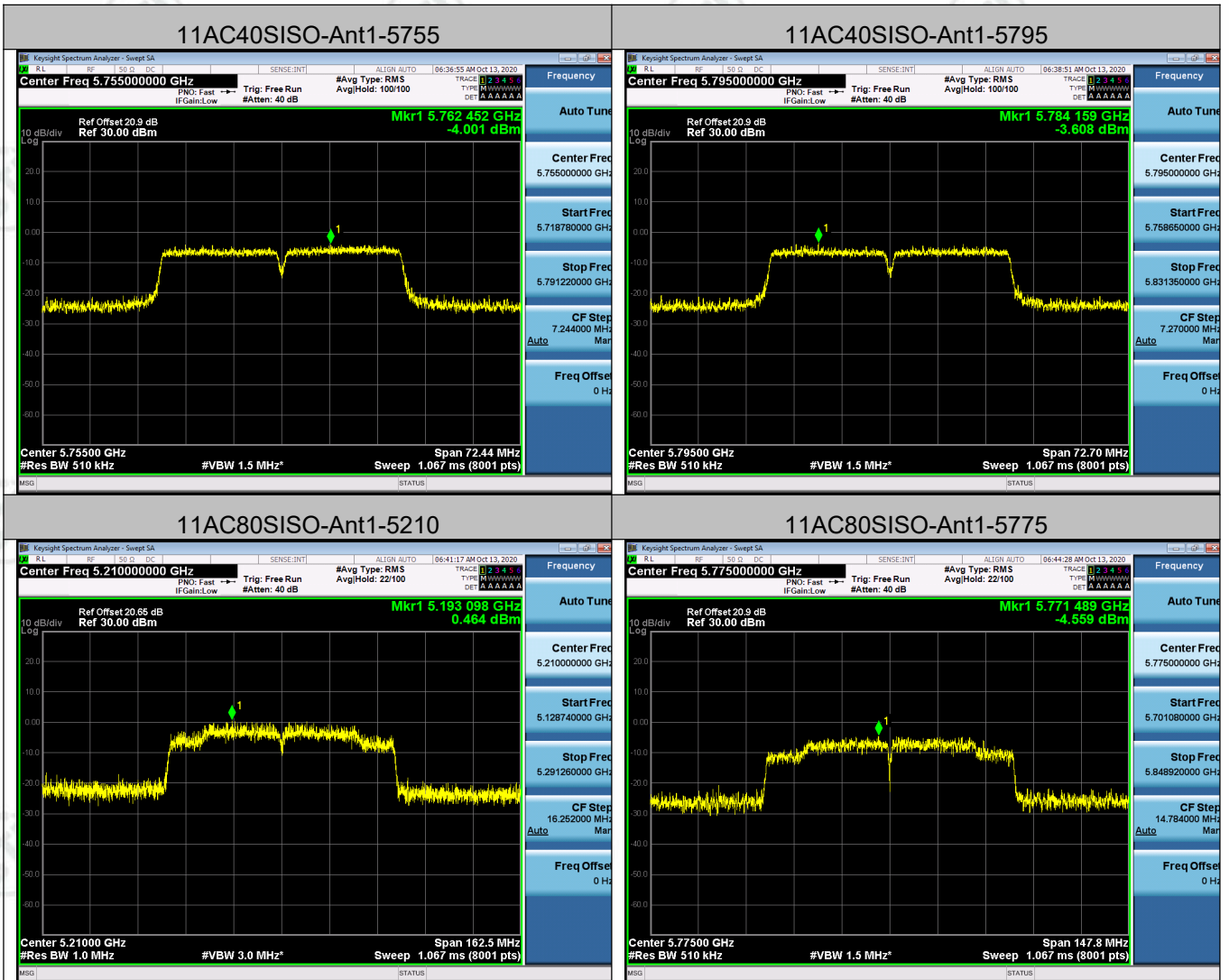
Test Graph











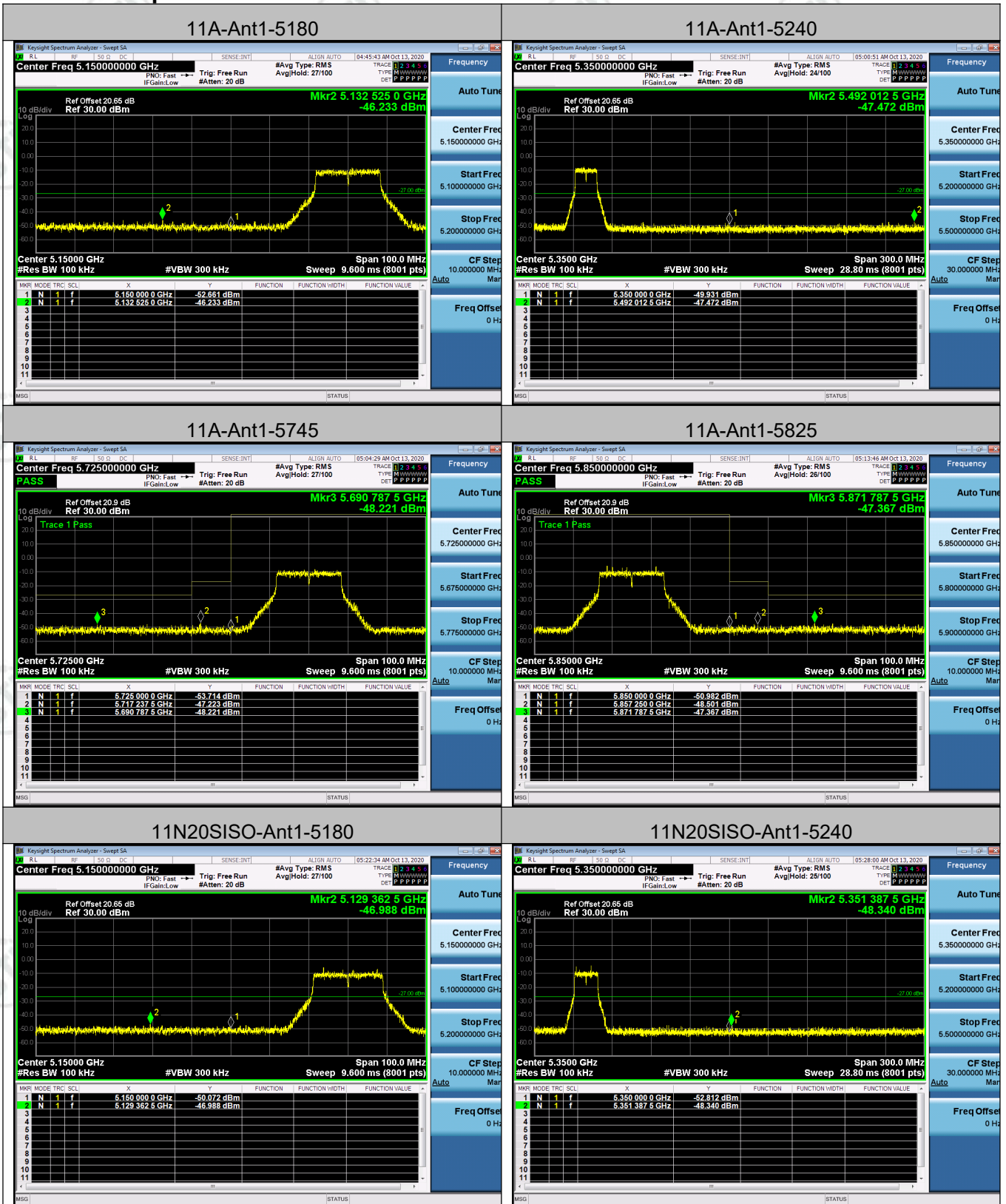
Appendix D): Band Edge Measurements

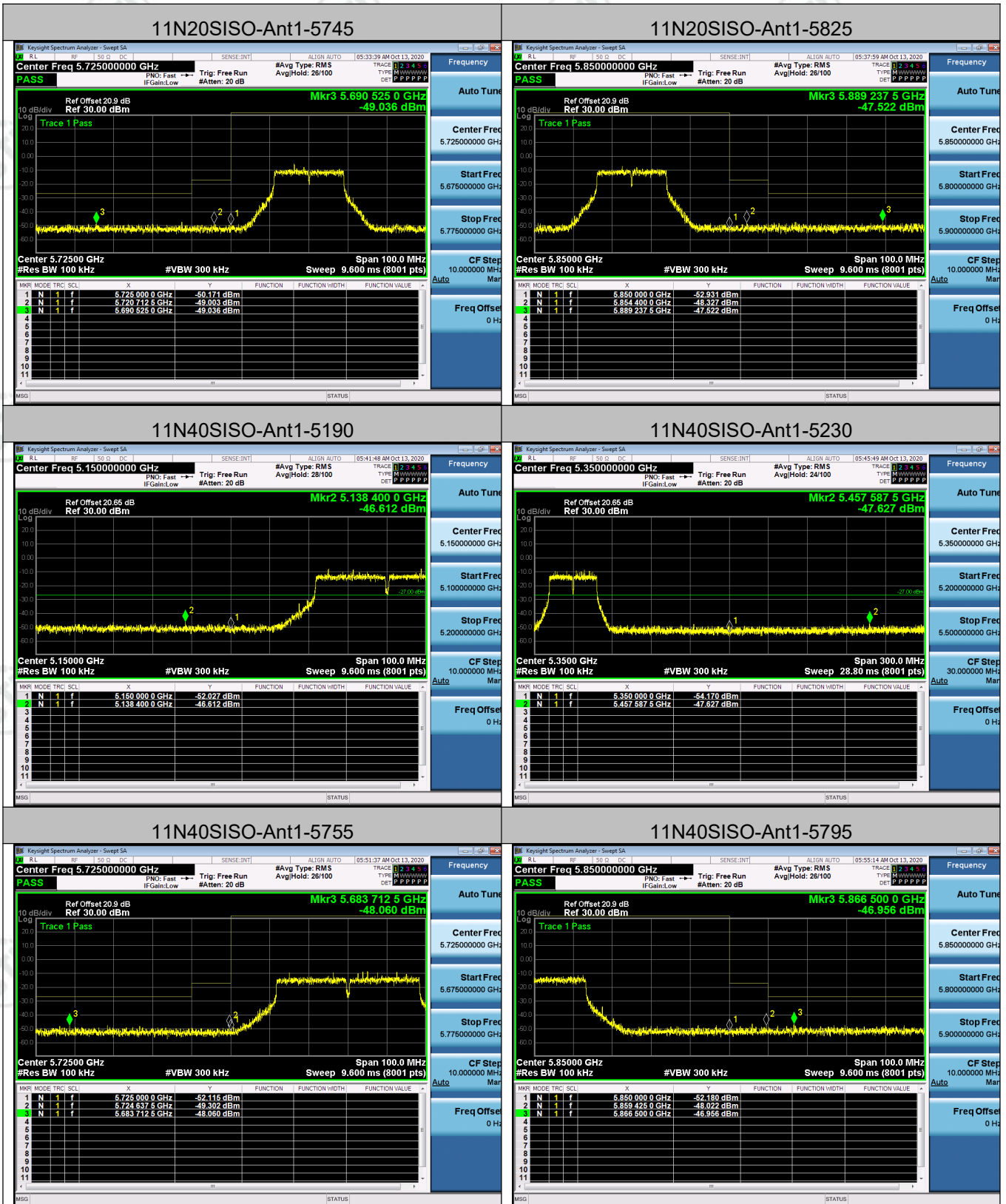
Result Table

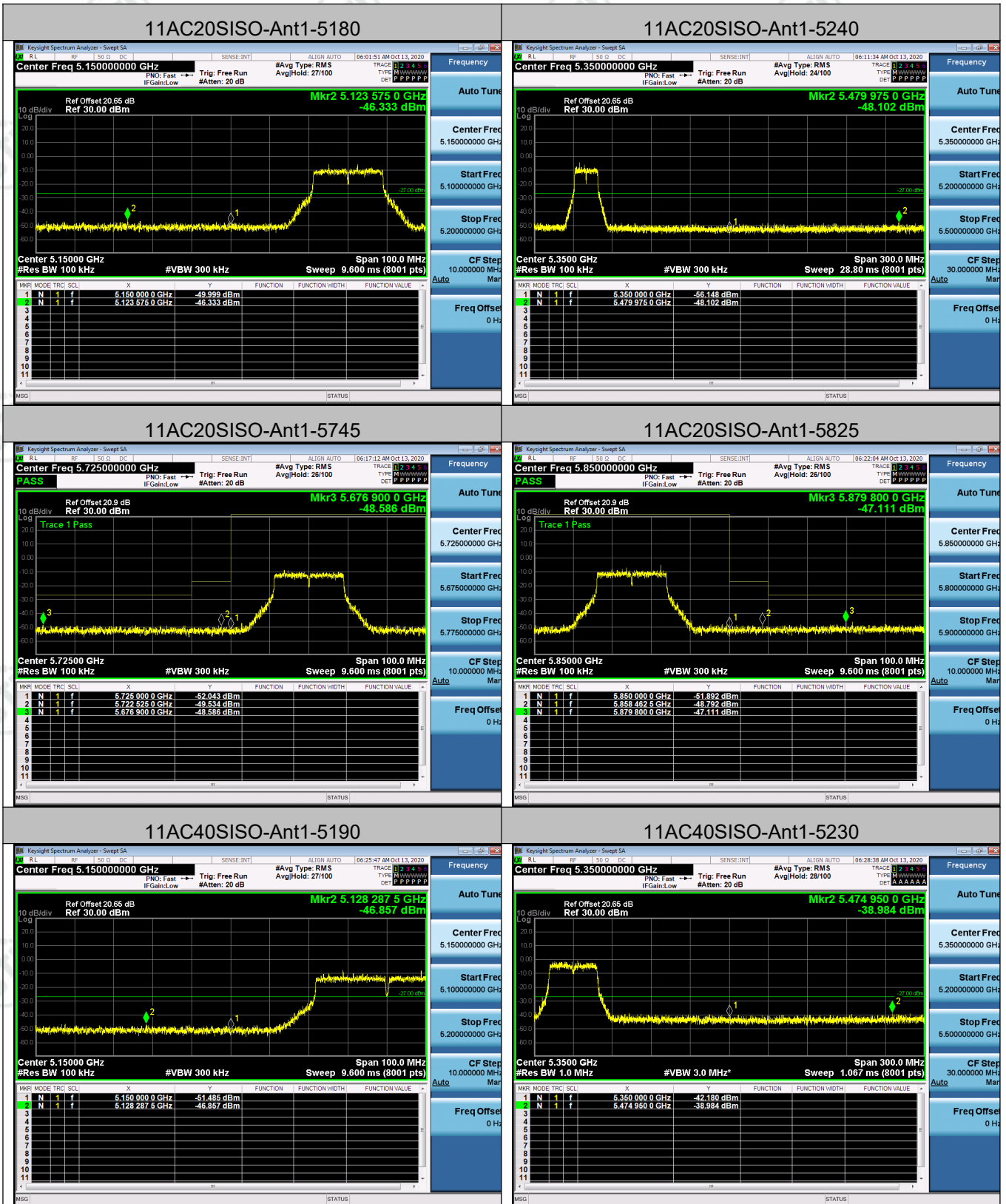
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11A	Ant1	5180	-46.233		PASS
11A	Ant1	5240	-47.472		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11A	Ant1	5745	-48.221	-47.223	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11A	Ant1	5825	-48.501	-47.367	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11N20SISO	Ant1	5180	-46.988		PASS
11N20SISO	Ant1	5240	-48.34		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11N20SISO	Ant1	5745	-49.036	-49.003	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11N20SISO	Ant1	5825	-48.327	-47.522	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11N40SISO	Ant1	5190	-52.027		PASS
11N40SISO	Ant1	5230	-54.17		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11N40SISO	Ant1	5755	-48.06	-49.302	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11N40SISO	Ant1	5795	-48.022	-46.956	PASS

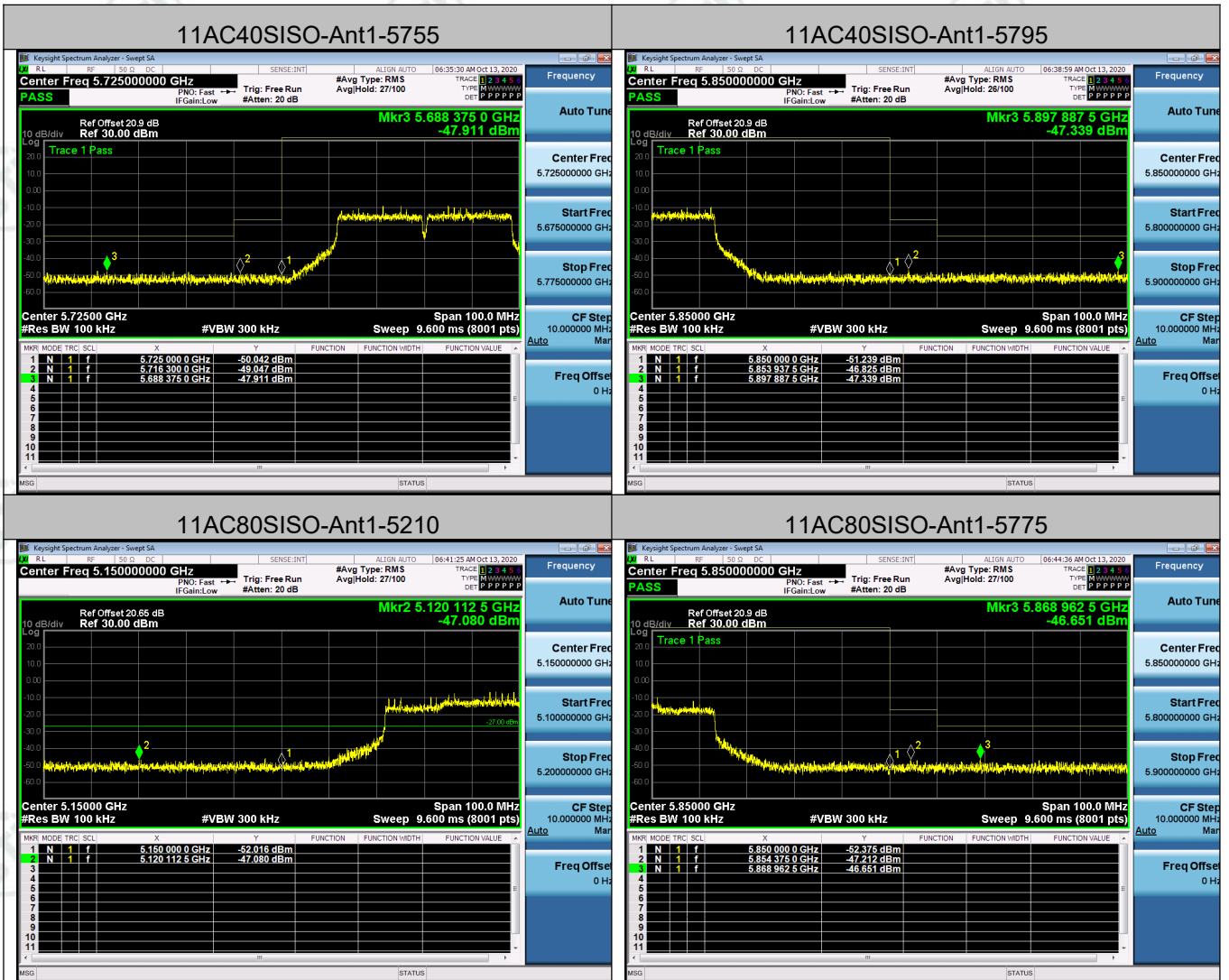
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11AC20SISO	Ant1	5180	-46.333		PASS
11AC20SISO	Ant1	5240	-48.102		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11AC20SISO	Ant1	5745	-48.586	-49.534	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11AC20SISO	Ant1	5825	-48.792	-47.111	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11AC40SISO	Ant1	5190	-51.485		PASS
11AC40SISO	Ant1	5230	-42.18		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11AC40SISO	Ant1	5755	-47.911	-49.047	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11AC40SISO	Ant1	5795	-46.825	-47.339	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11AC80SISO	Ant1	5210	-52.016		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11AC80SISO	Ant1	5775	-47.212	-46.651	PASS

Test Graph









Appendix E): Frequency Stability

Frequency Error vs. Voltage:

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11A	Ant1	5180	TN	VL	5179.97	-5.791506	PASS
			TN	VN	5179.94	-11.583012	PASS
			TN	VH	5180.015	2.895753	PASS
11A	Ant1	5200	TN	VL	5199.955	-8.653846	PASS
			TN	VN	5200.045	8.653846	PASS
			TN	VH	5199.94	-11.538462	PASS
11A	Ant1	5240	TN	VL	5239.985	-2.862595	PASS
			TN	VN	5240.015	2.862595	PASS
			TN	VH	5240.06	11.450382	PASS
11A	Ant1	5745	TN	VL	5744.925	-13.05483	PASS
			TN	VN	5744.925	-13.05483	PASS
			TN	VH	5744.94	-10.443864	PASS
11A	Ant1	5785	TN	VL	5785.015	2.592913	PASS
			TN	VN	5784.985	-2.592913	PASS
			TN	VH	5784.97	-5.185825	PASS
11A	Ant1	5825	TN	VL	5824.985	-2.575107	PASS
			TN	VN	5825.045	7.725322	PASS
			TN	VH	5825.045	7.725322	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11N20	Ant1	5180	TN	VL	5179.985	-2.895753	PASS
			TN	VN	5180.03	5.791506	PASS
			TN	VH	5179.97	-5.791506	PASS
11N20	Ant1	5200	TN	VL	5200.09	17.307692	PASS
			TN	VN	5199.94	-11.538462	PASS
			TN	VH	5199.955	-8.653846	PASS
11N20	Ant1	5240	TN	VL	5240.03	5.725191	PASS
			TN	VN	5240.03	5.725191	PASS
			TN	VH	5240.03	5.725191	PASS
11N20	Ant1	5745	TN	VL	5745.075	13.05483	PASS
			TN	VN	5744.925	10.443864	PASS
			TN	VH	5744.94	-5.221932	PASS
11N20	Ant1	5785	TN	VL	5785.015	2.592913	PASS
			TN	VN	5785.03	5.185825	PASS
			TN	VH	5785	0	PASS
11N20	Ant1	5825	TN	VL	5825	0	PASS
			TN	VN	5825	0	PASS
			TN	VH	5825.03	5.150215	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11N40	Ant1	5190	TN	VL	5189.94	-11.560694	PASS
			TN	VN	5190	0	PASS
			TN	VH	5190.09	17.34104	PASS
11N40	Ant1	5230	TN	VL	5230.06	11.472275	PASS
			TN	VN	5229.97	-5.736138	PASS
			TN	VH	5230	0	PASS
11N40	Ant1	5755	TN	VL	5755.06	10.425717	PASS
			TN	VN	5754.97	-5.212858	PASS
			TN	VH	5755.09	15.638575	PASS
11N40	Ant1	5795	TN	VL	5794.97	-5.176877	PASS
			TN	VN	5795.03	5.176877	PASS
			TN	VH	5794.97	-5.176877	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC20	Ant1	5180	TN	VL	5179.97	-5.791506	PASS
			TN	VN	5179.94	-11.583012	PASS
			TN	VH	5180.015	2.895753	PASS
11AC20	Ant1	5200	TN	VL	5199.955	-8.653846	PASS
			TN	VN	5200.045	8.653846	PASS
			TN	VH	5199.94	-11.538462	PASS
11AC20	Ant1	5240	TN	VL	5239.985	-2.862595	PASS
			TN	VN	5240.015	2.862595	PASS
			TN	VH	5240.06	11.450382	PASS
11AC20	Ant1	5745	TN	VL	5744.925	-13.05483	PASS
			TN	VN	5744.925	-13.05483	PASS
			TN	VH	5744.94	-10.443864	PASS
11AC20	Ant1	5785	TN	VL	5785.015	2.592913	PASS
			TN	VN	5784.985	-2.592913	PASS
			TN	VH	5784.97	-5.185825	PASS
11AC20	Ant1	5825	TN	VL	5824.985	-2.575107	PASS
			TN	VN	5825.045	7.725322	PASS
			TN	VH	5825.045	7.725322	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC40	Ant1	5190	TN	VL	5190.09	17.34104	PASS
			TN	VN	5190	0	PASS
			TN	VH	5190.09	17.34104	PASS
11AC40	Ant1	5230	TN	VL	5230.06	11.472275	PASS
			TN	VN	5229.97	-5.736138	PASS
			TN	VH	5229.97	-5.736138	PASS
11AC40	Ant1	5755	TN	VL	5755.06	10.425717	PASS
			TN	VN	5754.97	-5.212858	PASS
			TN	VH	5755.09	15.638575	PASS
11AC40	Ant1	5795	TN	VL	5794.97	-5.176877	PASS
			TN	VN	5794.97	-5.176877	PASS
			TN	VH	5794.97	-5.176877	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC80	Ant1	5210	TN	VL	5209.92	-15.355086	PASS
			TN	VN	5209.92	-15.355086	PASS
			TN	VH	5210	0	PASS
11AC80	Ant1	5775	TN	VL	5775	0	PASS
			TN	VN	5775.08	13.852814	PASS
			TN	VH	5775.08	13.852814	PASS

Frequency Error vs. Temperature:

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11A	Ant1	5180	50	VN	5180.09	17.374517	PASS
			40	VN	5180.03	5.791506	PASS
			30	VN	5180.075	14.478764	PASS
			20	VN	5180.015	2.895753	PASS
			10	VN	5180.03	5.791506	PASS
			0	VN	5179.985	-2.895753	PASS
11A	Ant1	5200	50	VN	5199.955	-8.653846	PASS
			40	VN	5200.09	17.307692	PASS
			30	VN	5199.94	-11.538462	PASS
			20	VN	5199.985	-2.884615	PASS
			10	VN	5199.985	-2.884615	PASS
			0	VN	5200.015	2.884615	PASS
11A	Ant1	5240	50	VN	5239.955	-8.587786	PASS
			40	VN	5240.03	5.725191	PASS
			30	VN	5239.925	-14.312977	PASS
			20	VN	5240.03	5.725191	PASS
			10	VN	5239.955	-8.587786	PASS
			0	VN	5240.045	8.587786	PASS
11A	Ant1	5745	50	VN	5745.09	15.665796	PASS
			40	VN	5745.09	15.665796	PASS
			30	VN	5745.06	10.443864	PASS
			20	VN	5744.97	-5.221932	PASS
			10	VN	5745.03	5.221932	PASS
			0	VN	5745.03	5.221932	PASS
11A	Ant1	5785	50	VN	5784.895	-18.150389	PASS
			40	VN	5784.94	-10.371651	PASS
			30	VN	5784.985	-2.592913	PASS
			20	VN	5785.015	2.592913	PASS
			10	VN	5785.015	2.592913	PASS
			0	VN	5784.985	-2.592913	PASS

11A	Ant1	5825	50	VN	5824.985	-2.575107	PASS
			40	VN	5825.09	15.450644	PASS
			30	VN	5824.925	-12.875536	PASS
			20	VN	5824.97	-5.150215	PASS
			10	VN	5824.94	-10.300429	PASS
			0	VN	5824.94	-10.300429	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11N20	Ant1	5180	50	VN	5180	0	PASS
			40	VN	5179.91	-17.374517	PASS
			30	VN	5179.97	-5.791506	PASS
			20	VN	5180	0	PASS
			10	VN	5180	0	PASS
			0	VN	5180.03	5.791506	PASS
11N20	Ant1	5200	50	VN	5200.045	8.653846	PASS
			40	VN	5200.015	2.884615	PASS
			30	VN	5200.015	2.884615	PASS
			20	VN	5199.94	-11.538462	PASS
			10	VN	5200.045	8.653846	PASS
			0	VN	5199.955	-8.653846	PASS
11N20	Ant1	5240	50	VN	5240.03	5.725191	PASS
			40	VN	5240.045	8.587786	PASS
			30	VN	5239.97	-5.725191	PASS
			20	VN	5239.955	-8.587786	PASS
			10	VN	5240.015	2.862595	PASS
			0	VN	5240	0	PASS
11N20	Ant1	5745	50	VN	5745	0	PASS
			40	VN	5744.955	-7.832898	PASS
			30	VN	5744.94	-10.443864	PASS
			20	VN	5745.03	5.221932	PASS
			10	VN	5745.03	5.221932	PASS
			0	VN	5744.94	-10.443864	PASS
11N20	Ant1	5785	50	VN	5785.03	5.185825	PASS
			40	VN	5784.985	-2.592913	PASS
			30	VN	5785.045	7.778738	PASS
			20	VN	5785.09	15.557476	PASS
			10	VN	5784.955	-7.778738	PASS
			0	VN	5785.03	5.185825	PASS

11N20	Ant1	5825	50	VN	5825.045	7.725322	PASS
			40	VN	5824.91	-15.450644	PASS
			30	VN	5825	0	PASS
			20	VN	5824.955	-7.725322	PASS
			10	VN	5825.075	12.875536	PASS
			0	VN	5825	0	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11N40	Ant1	5190	50	VN	5190.06	11.560694	PASS
			40	VN	5190	0	PASS
			30	VN	5190.03	5.780347	PASS
			20	VN	5190	0	PASS
			10	VN	5190.06	11.560694	PASS
			0	VN	5190.03	5.780347	PASS
11N40	Ant1	5230	50	VN	5230.03	5.736138	PASS
			40	VN	5230.03	5.736138	PASS
			30	VN	5229.97	-5.736138	PASS
			20	VN	5230	0	PASS
			10	VN	5230	0	PASS
			0	VN	5230.06	11.472275	PASS
11N40	Ant1	5755	50	VN	5755.09	15.638575	PASS
			40	VN	5755.06	10.425717	PASS
			30	VN	5754.91	-15.638575	PASS
			20	VN	5755	0	PASS
			10	VN	5755.06	10.425717	PASS
			0	VN	5755	0	PASS
11N40	Ant1	5795	50	VN	5794.97	-5.176877	PASS
			40	VN	5795	0	PASS
			30	VN	5795	0	PASS
			20	VN	5795	0	PASS
			10	VN	5795.06	10.353753	PASS
			0	VN	5794.94	-10.353753	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC20	Ant1	5180	50	VN	5180.09	17.374517	PASS
			40	VN	5180.03	5.791506	PASS
			30	VN	5180.075	14.478764	PASS
			20	VN	5180.015	2.895753	PASS
			10	VN	5180.03	5.791506	PASS
			0	VN	5179.985	-2.895753	PASS
11AC20	Ant1	5200	50	VN	5199.955	-8.653846	PASS
			40	VN	5200.09	17.307692	PASS
			30	VN	5199.94	-11.538462	PASS
			20	VN	5199.985	-2.884615	PASS
			10	VN	5199.985	-2.884615	PASS
			0	VN	5200.015	2.884615	PASS
11AC20	Ant1	5240	50	VN	5239.955	-8.587786	PASS
			40	VN	5240.03	5.725191	PASS
			30	VN	5239.925	-14.312977	PASS
			20	VN	5240.03	5.725191	PASS
			10	VN	5239.955	-8.587786	PASS
			0	VN	5240.045	8.587786	PASS

11AC20	Ant1	5745	50	VN	5745.06	10.443864	PASS
			40	VN	5745.09	15.665796	PASS
			30	VN	5745.06	10.443864	PASS
			20	VN	5744.97	-5.221932	PASS
			10	VN	5745.03	5.221932	PASS
			0	VN	5745.03	5.221932	PASS
11AC20	Ant1	5785	50	VN	5784.895	-18.150389	PASS
			40	VN	5784.94	-10.371651	PASS
			30	VN	5784.985	-2.592913	PASS
			20	VN	5785.015	2.592913	PASS
			10	VN	5785.015	2.592913	PASS
			0	VN	5784.985	-2.592913	PASS
11AC20	Ant1	5825	50	VN	5824.985	-2.575107	PASS
			40	VN	5825.09	15.450644	PASS
			30	VN	5824.925	-12.875536	PASS
			20	VN	5824.97	-5.150215	PASS
			10	VN	5824.94	-10.300429	PASS
			0	VN	5824.94	-10.300429	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC40	Ant1	5190	50	VN	5190.03	5.780347	PASS
			40	VN	5190	0	PASS
			30	VN	5190.03	5.780347	PASS
			20	VN	5190.03	5.780347	PASS
			10	VN	5190.06	11.560694	PASS
			0	VN	5190.03	5.780347	PASS
11AC40	Ant1	5230	50	VN	5230.03	5.736138	PASS
			40	VN	5230.03	5.736138	PASS
			30	VN	5229.97	-5.736138	PASS
			20	VN	5230.06	11.472275	PASS
			10	VN	5230.06	11.472275	PASS
			0	VN	5230.06	11.472275	PASS
11AC40	Ant1	5755	50	VN	5755.09	15.638575	PASS
			40	VN	5755.06	10.425717	PASS
			30	VN	5754.91	-15.638575	PASS
			20	VN	5755	0	PASS
			10	VN	5755.06	10.425717	PASS
			0	VN	5755	0	PASS
11AC40	Ant1	5795	50	VN	5794.97	-5.176877	PASS
			40	VN	5795.06	10.353753	PASS
			30	VN	5795.06	10.353753	PASS
			20	VN	5795	0	PASS
			10	VN	5795.06	10.353753	PASS
			0	VN	5794.94	-10.353753	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC80	Ant1	5210	50	VN	5209.92	-15.355086	PASS
			40	VN	5210	0	PASS
			30	VN	5210.08	15.355086	PASS
			20	VN	5210.08	15.355086	PASS
			10	VN	5210.08	15.355086	PASS
			0	VN	5210	0	PASS
11AC80	Ant1	5775	50	VN	5775	0	PASS
			40	VN	5775.08	13.852814	PASS
			30	VN	5775.08	13.852814	PASS
			20	VN	5775.08	13.852814	PASS
			10	VN	5775	0	PASS
			0	VN	5775	0	PASS

Appendix F) Antenna Requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is FPC antenna. The best case gain of the antenna is 2.97dBi.

Appendix G) AC Power Line Conducted Emission

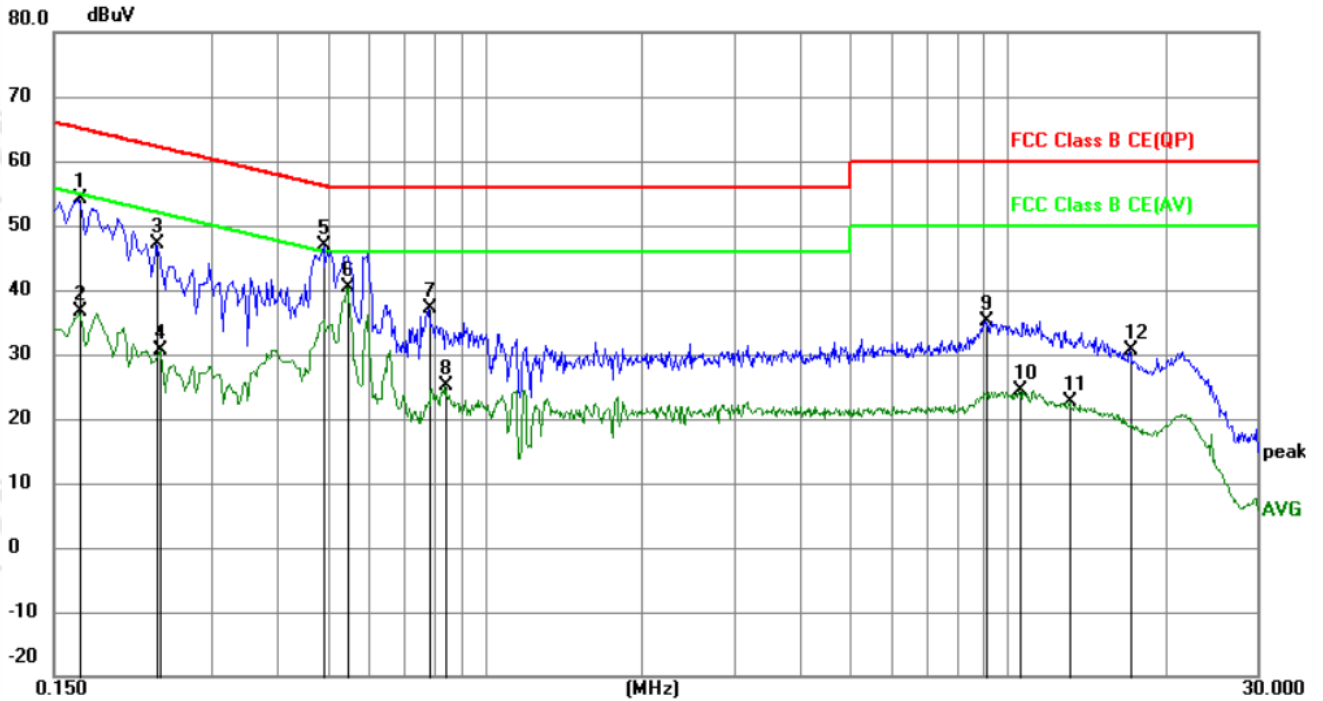
<p>Test Procedure:</p>	<p>Test frequency range :150KHz-30MHz</p> <ol style="list-style-type: none"> 1)The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement. 														
<p>Limit:</p>	<table border="1" data-bbox="497 1167 1366 1386"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE : The lower limit is applicable at the transition frequency</p>	Frequency range (MHz)	Limit (dB μ V)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dB μ V)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

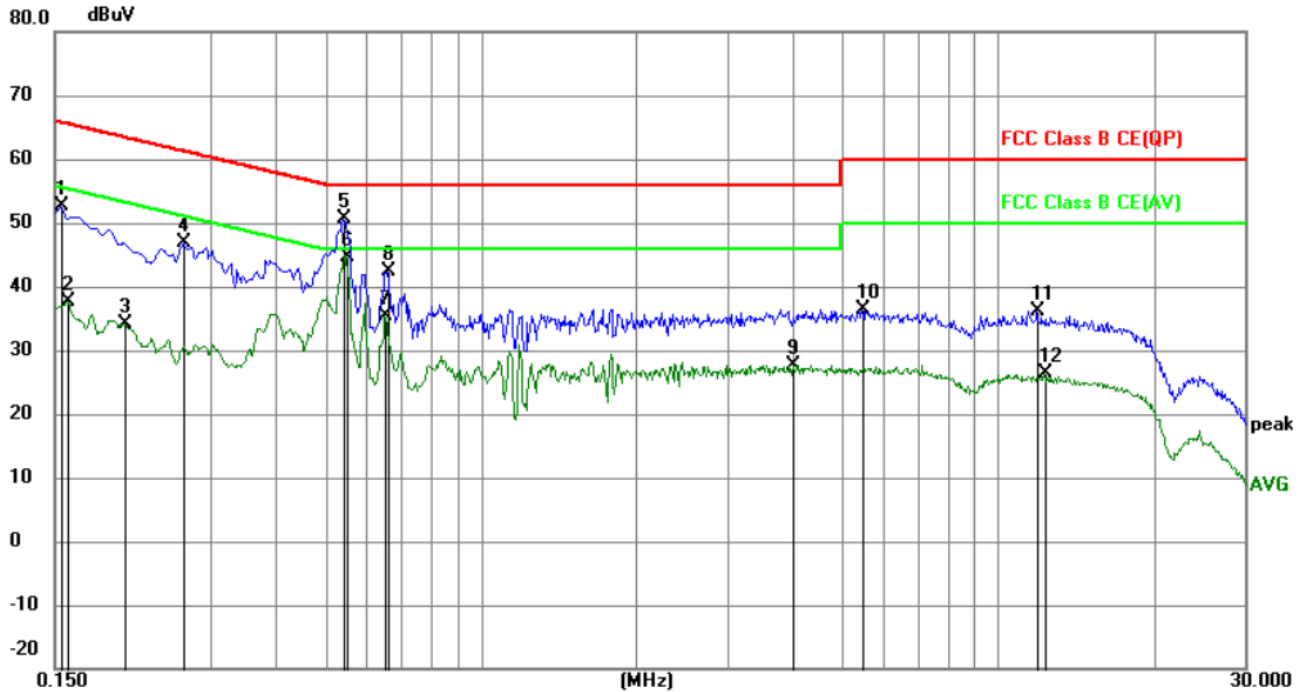
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1680	44.27	9.87	54.14	65.06	-10.92	QP	
2		0.1680	26.68	9.87	36.55	55.06	-18.51	AVG	
3		0.2355	37.24	9.94	47.18	62.25	-15.07	QP	
4		0.2400	20.73	9.95	30.68	52.10	-21.42	AVG	
5		0.4920	36.87	9.95	46.82	56.13	-9.31	QP	
6	*	0.5460	30.27	10.01	40.28	46.00	-5.72	AVG	
7		0.7799	27.28	9.86	37.14	56.00	-18.86	QP	
8		0.8430	15.34	9.85	25.19	46.00	-20.81	AVG	
9		9.1005	25.37	9.78	35.15	60.00	-24.85	QP	
10		10.5540	14.47	9.80	24.27	50.00	-25.73	AVG	
11		13.1370	12.70	9.87	22.57	50.00	-27.43	AVG	
12		17.1645	20.60	9.95	30.55	60.00	-29.45	QP	

Neutral line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1545	42.64	9.87	52.51	65.75	-13.24	QP	
2		0.1590	27.74	9.87	37.61	55.52	-17.91	AVG	
3		0.2040	24.33	9.88	34.21	53.45	-19.24	AVG	
4		0.2670	36.90	10.00	46.90	61.21	-14.31	QP	
5		0.5415	40.67	10.00	50.67	56.00	-5.33	QP	
6	*	0.5505	34.69	10.01	44.70	46.00	-1.30	AVG	
7		0.6540	25.33	9.97	35.30	46.00	-10.70	AVG	
8		0.6585	32.45	9.96	42.41	56.00	-13.59	QP	
9		4.0245	17.96	9.78	27.74	46.00	-18.26	AVG	
10		5.4510	26.54	9.78	36.32	60.00	-23.68	QP	
11		11.9220	26.37	9.84	36.21	60.00	-23.79	QP	
12		12.2729	16.50	9.85	26.35	50.00	-23.65	AVG	

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

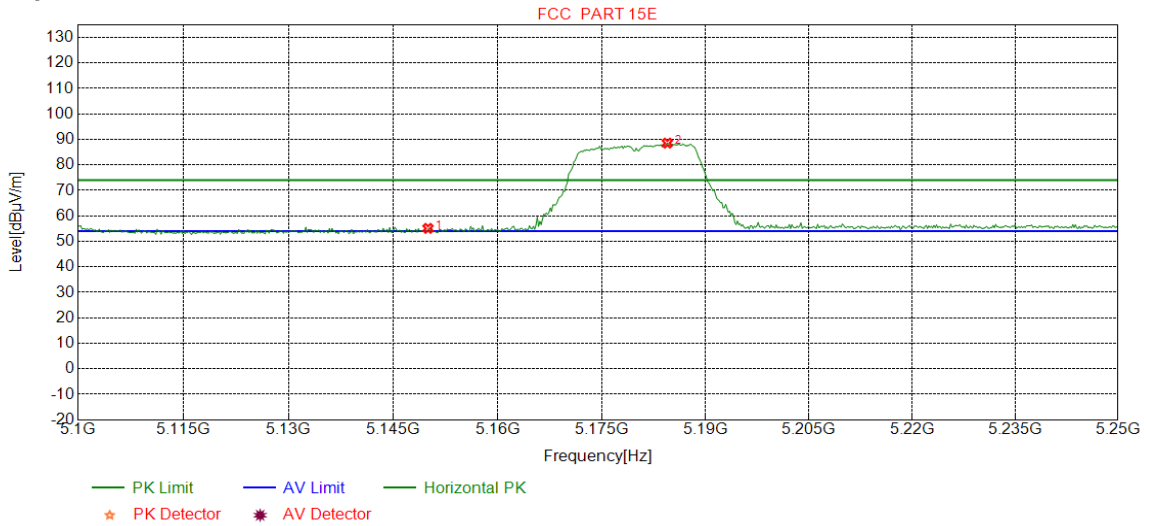
Appendix H) Restricted bands around fundamental frequency (Radiated Emission)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:	<p>Below 1GHz test procedure as below:</p> <ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna 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. 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 was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel <p>Above 1GHz test procedure as below:</p> <ol style="list-style-type: none"> Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre). Test the EUT in the lowest channel , the Highest channel The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete. 				
Limit:	Frequency	Limit (dB μ V/m @3cm)	Remark		
	30MHz-88MHz	40.0	Quasi-peak Value		
	88MHz-216MHz	43.5	Quasi-peak Value		
	216MHz-960MHz	46.0	Quasi-peak Value		
	960MHz-1GHz	54.0	Quasi-peak Value		
	Above 1GHz	54.0	Average Value		
		74.0	Peak Value		

Test plot as follows:

Mode:	802.11 n(HT20Mbps) Transmitting	Channel:	5180
Remark:	PK		

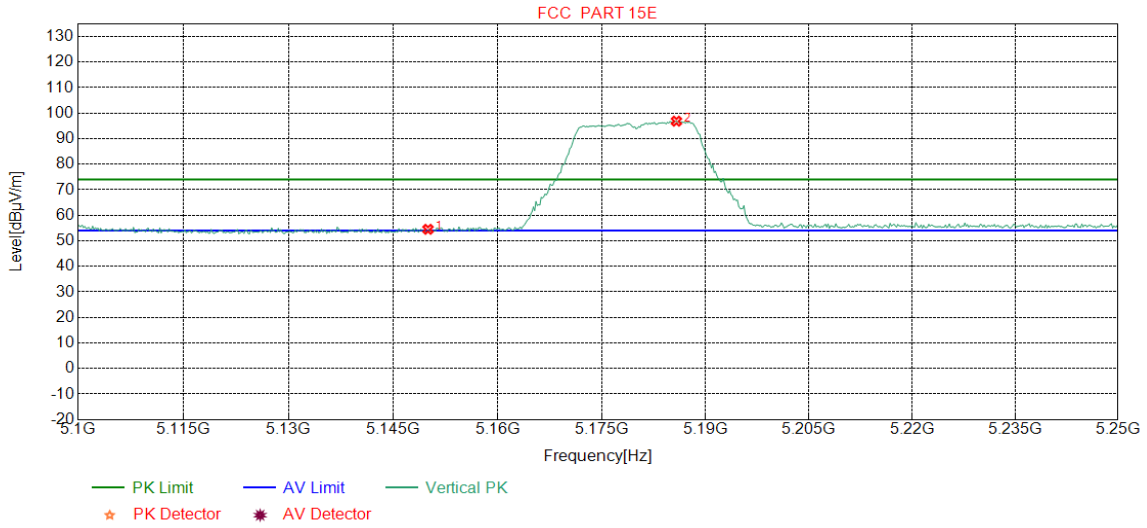
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	48.13	55.12	74.00	18.88	Pass	Horizontal
2	5184.4806	34.68	15.42	-42.72	81.20	88.58	74.00	-14.58	Pass	Horizontal

Mode:	802.11 n(HT20Mbps) Transmitting	Channel:	5180
Remark:	PK		

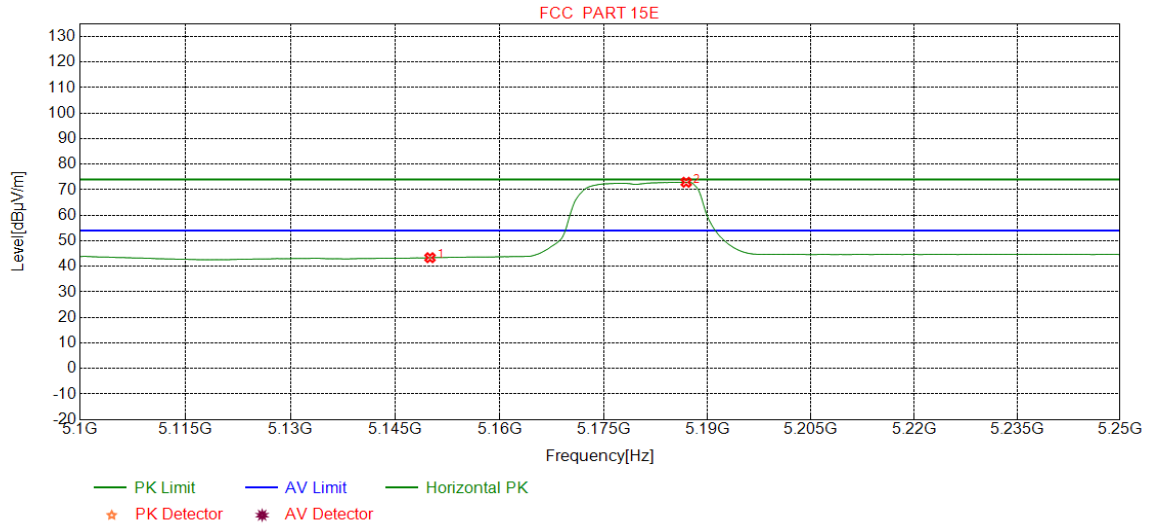
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	47.53	54.52	74.00	19.48	Pass	Vertical
2	5185.7947	34.69	15.43	-42.73	89.48	96.87	74.00	-22.87	Pass	Vertical

Mode:	802.11 n(HT20Mbps) Transmitting	Channel:	5180
Remark:	AV		

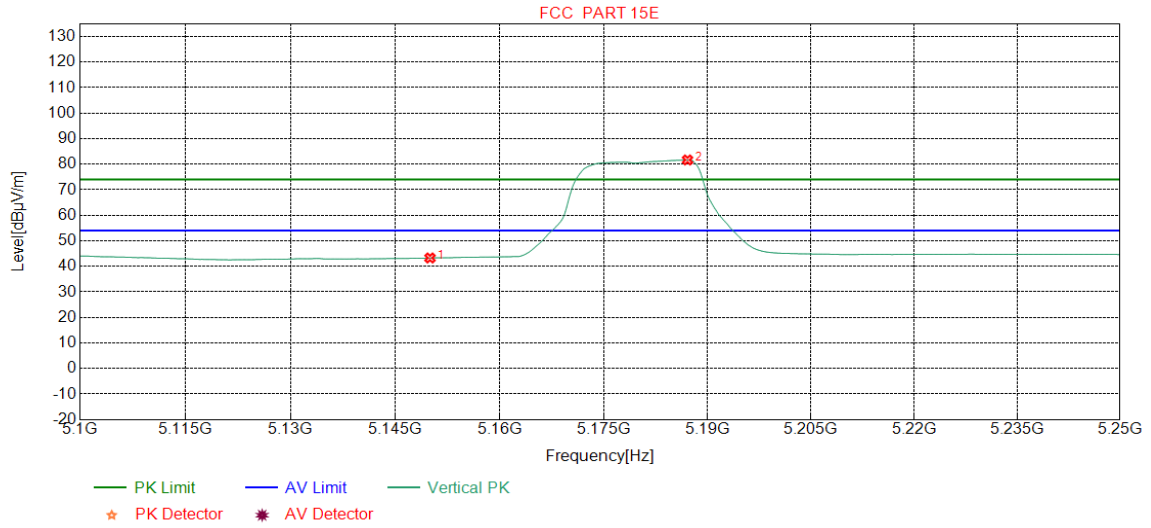
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	36.41	43.40	54.00	10.60	Pass	Horizontal
2	5186.9212	34.69	15.44	-42.73	65.54	72.94	54.00	-18.94	Pass	Horizontal

Mode:	802.11 n(HT20Mbps) Transmitting	Channel:	5180
Remark:	AV		

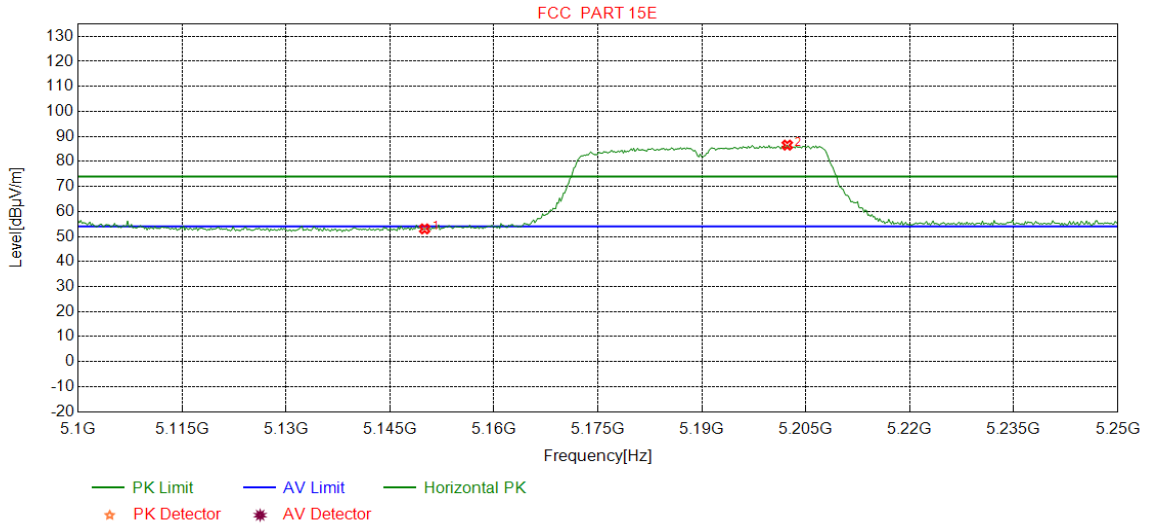
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	36.31	43.30	54.00	10.70	Pass	Vertical
2	5187.1089	34.69	15.44	-42.72	74.28	81.69	54.00	-27.69	Pass	Vertical

Mode:	802.11 n(HT40Mbps) Transmitting	Channel:	5190
Remark:	PK		

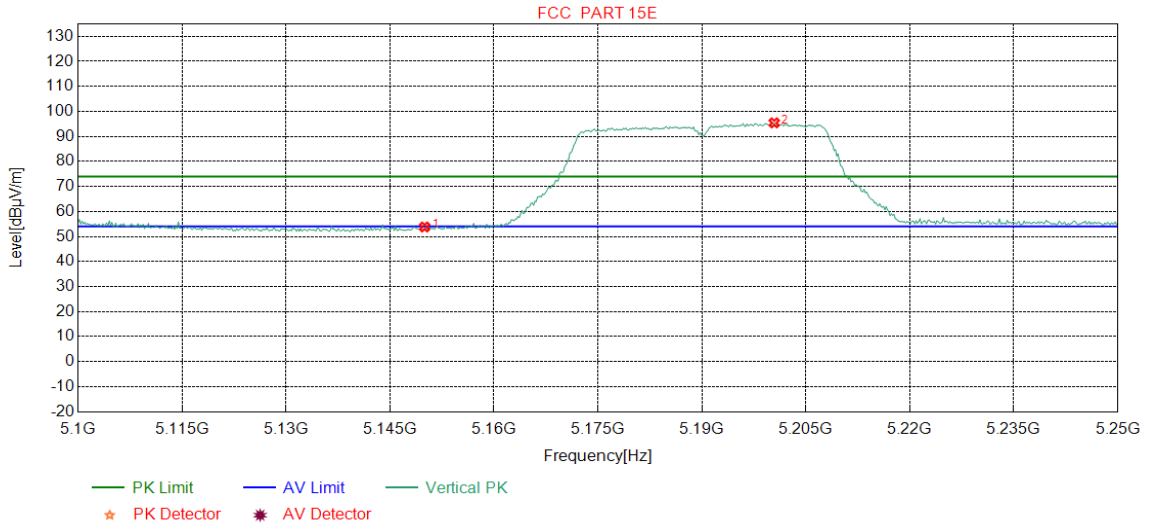
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	46.05	53.04	74.00	20.96	Pass	Horizontal
2	5202.3154	34.70	15.56	-42.72	78.98	86.52	74.00	-12.52	Pass	Horizontal

Mode:	802.11 n(HT40Mbps) Transmitting	Channel:	5190
Remark:	PK		

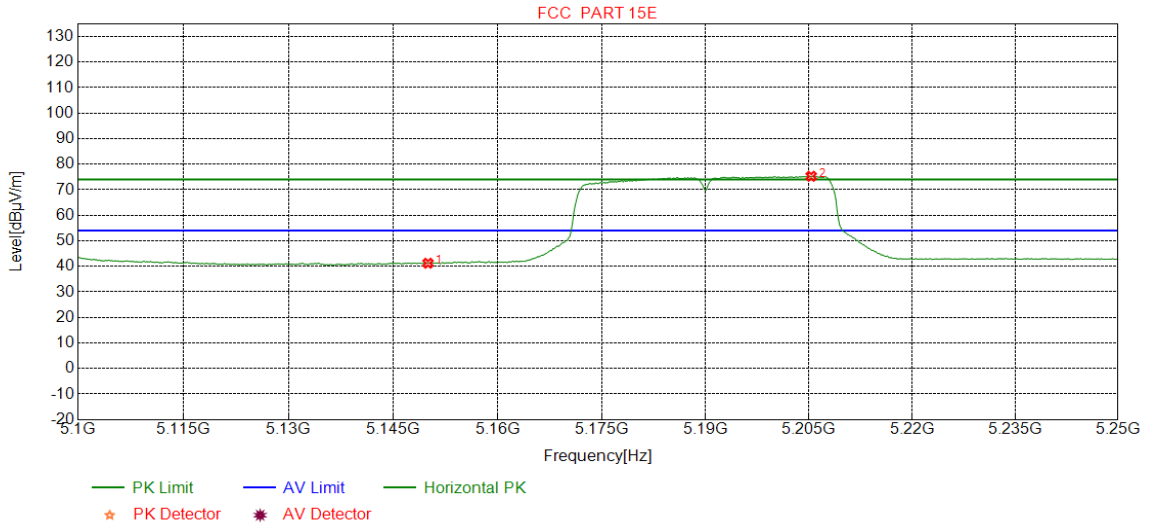
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	46.82	53.81	74.00	20.19	Pass	Vertical
2	5200.4380	34.70	15.57	-42.72	87.87	95.42	74.00	-21.42	Pass	Vertical

Mode:	802.11 n(HT40Mbps) Transmitting	Channel:	5190
Remark:	AV		

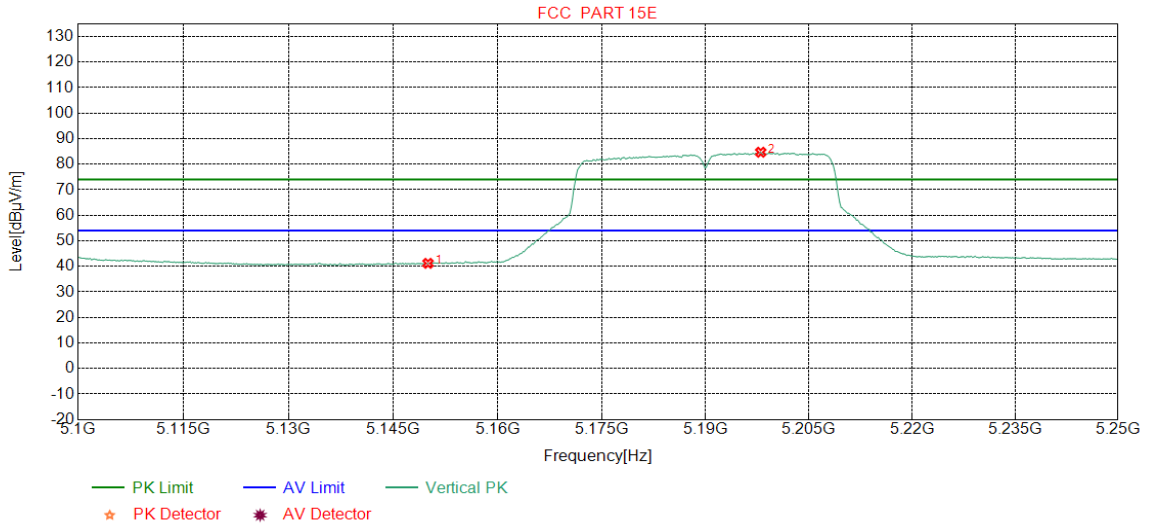
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	34.25	41.24	54.00	12.76	Pass	Horizontal
2	5205.3191	34.71	15.55	-42.73	67.77	75.30	54.00	-21.30	Pass	Horizontal

Mode:	802.11 n(HT40Mbps) Transmitting	Channel:	5190
Remark:	AV		

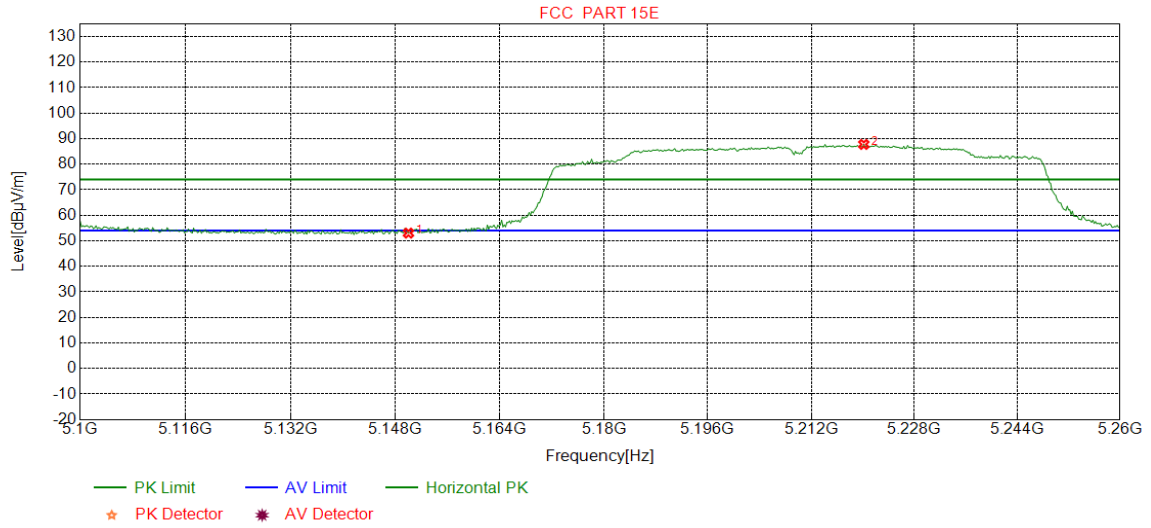
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	34.20	41.19	54.00	12.81	Pass	Vertical
2	5197.9975	34.70	15.55	-42.72	77.18	84.71	54.00	-30.71	Pass	Vertical

Mode:	802.11 ac(VHT80Mbps) Transmitting	Channel:	5210
Remark:	PK		

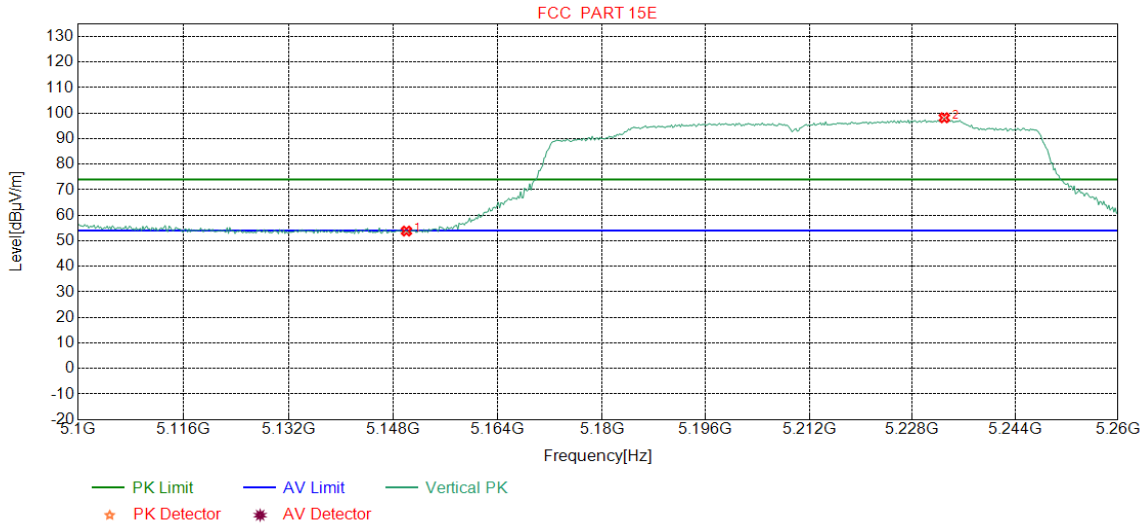
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	46.05	53.04	74.00	20.96	Pass	Horizontal
2	5220.1502	34.72	15.48	-42.71	80.28	87.77	74.00	-13.77	Pass	Horizontal

Mode:	802.11 ac(VHT80Mbps) Transmitting	Channel:	5210
Remark:	PK		

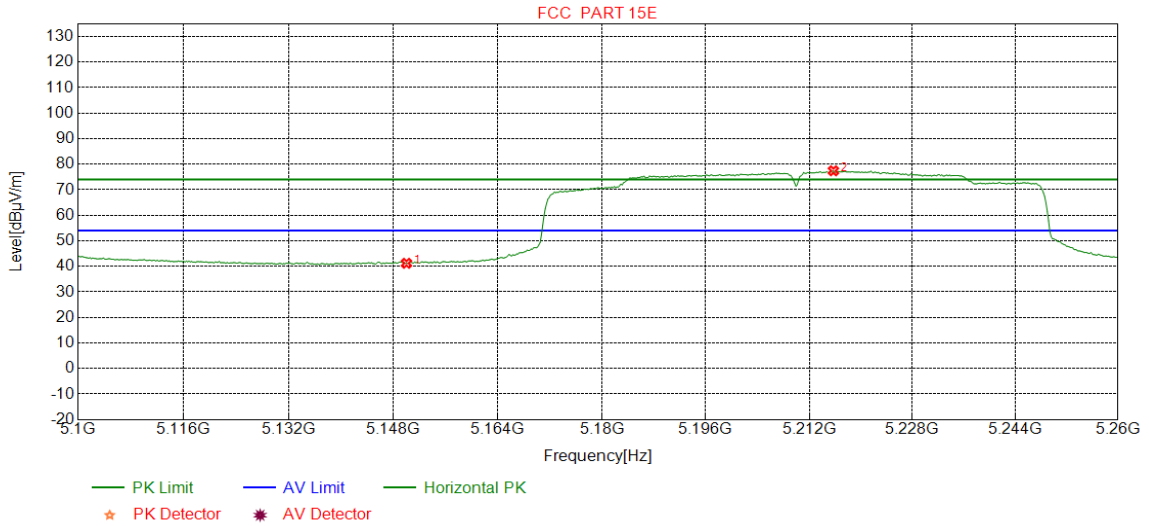
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	46.84	53.83	74.00	20.17	Pass	Vertical
2	5232.9662	34.73	15.42	-42.70	90.76	98.21	74.00	-24.21	Pass	Vertical

Mode:	802.11 ac(VHT80Mbps) Transmitting	Channel:	5210
Remark:	AV		

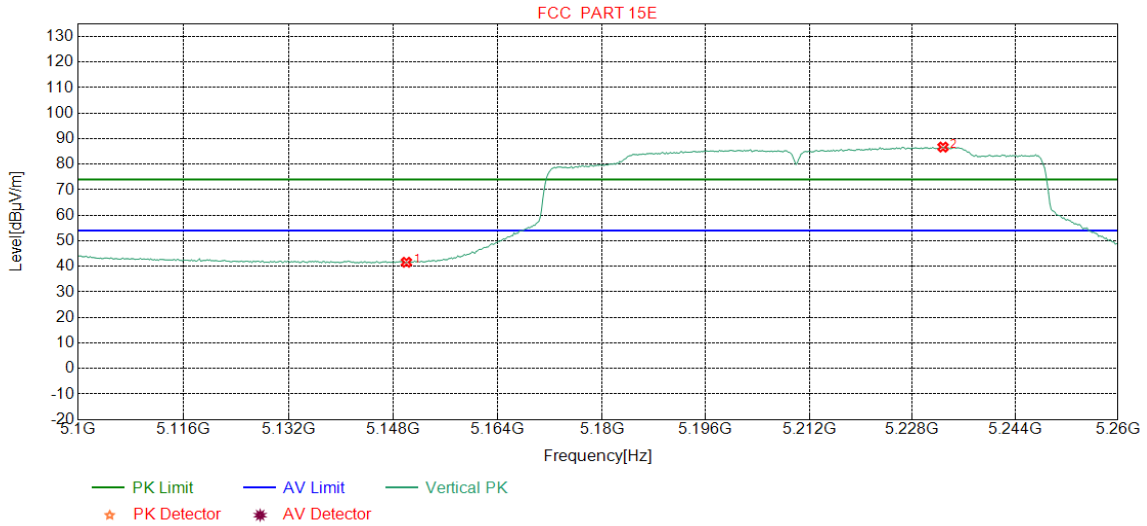
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	34.22	41.21	54.00	12.79	Pass	Horizontal
2	5215.7447	34.72	15.50	-42.72	69.95	77.45	54.00	-23.45	Pass	Horizontal

Mode:	802.11 ac(VHT80Mbps) Transmitting	Channel:	5210
Remark:	AV		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-42.74	34.63	41.62	54.00	12.38	Pass	Vertical
2	5232.7660	34.73	15.43	-42.71	79.28	86.73	54.00	-32.73	Pass	Vertical

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Pre-amplifier Factor - Antenna Factor - Cable Factor

Appendix I) Unwanted Emissions in the Restricted Bands (Radiated Emission)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average	
Test Procedure:					
Below 1GHz test procedure as below:					
<p>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna 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.</p> <p>d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. 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.</p>					
Above 1GHz test procedure as below:					
<p>g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre)</p> <p>h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dB μ V/cm)	Remark	Measurement distance (cm)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	<p>Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.</p>				
Test result:	PASS				

Radiated Spurious Emissions test Data:

Radiated Emission below 1GHz

Mode:			802.11 ac(VHT80Mbps) Transmitting					Channel:		5210	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	46.0066	13.20	0.76	-31.79	37.72	19.89	40.00	20.11	Pass	H	PK
2	84.4224	8.12	1.06	-31.99	41.71	18.90	40.00	21.10	Pass	H	PK
3	149.1279	7.52	1.44	-32.00	43.32	20.28	43.50	23.22	Pass	H	PK
4	253.8014	12.28	1.90	-31.90	52.04	34.32	46.00	11.68	Pass	H	PK
5	600.0290	19.00	2.96	-31.50	42.50	32.96	46.00	13.04	Pass	H	PK
6	844.9785	21.44	3.50	-31.82	37.14	30.26	46.00	15.74	Pass	H	PK
7	35.3355	10.81	0.65	-31.41	40.43	20.48	40.00	19.52	Pass	V	PK
8	82.3852	7.65	1.05	-31.95	45.16	21.91	40.00	18.09	Pass	V	PK
9	150.0010	7.55	1.45	-32.01	45.25	22.24	43.50	21.26	Pass	V	PK
10	255.2565	12.31	1.90	-31.89	48.11	30.43	46.00	15.57	Pass	V	PK
11	600.0290	19.00	2.96	-31.50	42.86	33.32	46.00	12.68	Pass	V	PK
12	844.9785	21.44	3.50	-31.82	39.35	32.47	46.00	13.53	Pass	V	PK

Transmitter Emission above 1GHz

Mode:			802.11 n(HT20) Transmitting					Channel:		5180	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1332.2332	28.23	3.33	-42.75	51.61	40.42	74.00	33.58	Pass	H	PK
2	2590.0000	32.54	4.79	-43.10	47.76	41.99	74.00	32.01	Pass	H	PK
3	4484.0484	34.48	6.68	-42.81	49.93	48.28	74.00	25.72	Pass	H	PK
4	6491.1991	35.90	8.63	-42.50	49.42	51.45	74.00	22.55	Pass	H	PK
5	8873.7187	37.42	6.87	-41.99	49.22	51.52	74.00	22.48	Pass	H	PK
6	10360.0000	38.30	7.29	-42.03	46.44	50.00	74.00	24.00	Pass	H	PK
7	1326.7327	28.23	3.33	-42.76	50.41	39.21	74.00	34.79	Pass	V	PK
8	1825.6326	30.55	3.90	-42.78	51.41	43.08	74.00	30.92	Pass	V	PK
9	2590.0000	32.54	4.79	-43.10	47.35	41.58	74.00	32.42	Pass	V	PK
10	6489.5490	35.90	8.63	-42.51	49.42	51.44	74.00	22.56	Pass	V	PK
11	8827.1414	37.32	6.89	-42.00	48.70	50.91	74.00	23.09	Pass	V	PK
12	10360.0000	38.30	7.29	-42.03	46.33	49.89	74.00	24.11	Pass	V	PK

Mode:			802.11 n(HT20) Transmitting					Channel:		5200	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1173.2673	28.07	3.03	-42.92	51.69	39.87	74.00	34.13	Pass	H	PK
2	2600.0000	32.56	4.77	-43.10	48.66	42.89	74.00	31.11	Pass	H	PK
3	3929.5930	33.74	6.25	-43.01	51.15	48.13	74.00	25.87	Pass	H	PK
4	6484.0484	35.90	8.60	-42.50	49.05	51.05	74.00	22.95	Pass	H	PK
5	8967.4484	37.63	6.84	-42.00	48.94	51.41	74.00	22.59	Pass	H	PK
6	10400.0000	38.36	7.54	-42.02	46.95	50.83	74.00	23.17	Pass	H	PK
7	1325.6326	28.23	3.33	-42.76	51.25	40.05	74.00	33.95	Pass	V	PK
8	1914.7415	31.14	4.18	-43.00	49.95	42.27	74.00	31.73	Pass	V	PK
9	2600.0000	32.56	4.77	-43.10	47.19	41.42	74.00	32.58	Pass	V	PK
10	3803.6304	33.64	6.13	-43.03	50.09	46.83	74.00	27.17	Pass	V	PK
11	6474.6975	35.89	8.56	-42.50	49.42	51.37	74.00	22.63	Pass	V	PK
12	10400.0000	38.36	7.54	-42.02	47.41	51.29	74.00	22.71	Pass	V	PK

Mode:			802.11 n(HT20) Transmitting					Channel:		5240	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1327.2827	28.23	3.33	-42.76	51.74	40.54	74.00	33.46	Pass	H	PK
2	1867.4367	30.83	4.03	-42.88	50.01	41.99	74.00	32.01	Pass	H	PK
3	2620.0000	32.59	4.80	-43.10	47.49	41.78	74.00	32.22	Pass	H	PK
4	4722.2222	34.50	7.23	-42.80	50.19	49.12	74.00	24.88	Pass	H	PK
5	6431.2431	35.89	8.48	-42.52	49.97	51.82	74.00	22.18	Pass	H	PK
6	10480.0000	38.47	7.45	-42.00	45.85	49.77	74.00	24.23	Pass	H	PK
7	1282.1782	28.18	3.27	-42.81	50.58	39.22	74.00	34.78	Pass	V	PK
8	1775.5776	30.22	3.87	-42.70	50.64	42.03	74.00	31.97	Pass	V	PK
9	2620.0000	32.59	4.80	-43.10	46.79	41.08	74.00	32.92	Pass	V	PK
10	6440.5941	35.89	8.47	-42.51	49.67	51.52	74.00	22.48	Pass	V	PK
11	8986.4243	37.67	6.84	-42.00	49.33	51.84	74.00	22.16	Pass	V	PK
12	10480.0000	38.47	7.45	-42.00	46.52	50.44	74.00	23.56	Pass	V	PK

Mode:			802.11 n(HT40) Transmitting					Channel:		5190	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1557.7558	28.78	3.54	-42.98	51.50	40.84	74.00	33.16	Pass	H	PK
2	2595.0000	32.55	4.78	-43.10	47.92	42.15	74.00	31.85	Pass	H	PK
3	3206.8207	33.28	5.72	-43.10	50.75	46.65	74.00	27.35	Pass	H	PK
4	6495.0495	35.90	8.65	-42.50	49.08	51.13	74.00	22.87	Pass	H	PK
5	7384.9692	36.48	6.43	-42.12	48.97	49.76	74.00	24.24	Pass	H	PK
6	10380.0000	38.33	7.41	-42.02	47.42	51.14	74.00	22.86	Pass	H	PK
7	1389.9890	28.29	3.33	-42.69	50.84	39.77	74.00	34.23	Pass	V	PK
8	2044.5545	31.76	4.26	-43.19	50.72	43.55	74.00	30.45	Pass	V	PK
9	2595.0000	32.55	4.78	-43.10	47.77	42.00	74.00	32.00	Pass	V	PK
10	3781.6282	33.63	6.03	-43.05	50.22	46.83	74.00	27.17	Pass	V	PK
11	6480.7481	35.90	8.59	-42.51	49.23	51.21	74.00	22.79	Pass	V	PK
12	10380.0000	38.33	7.41	-42.02	46.00	49.72	74.00	24.28	Pass	V	PK

Mode:			802.11 n(HT40) Transmitting					Channel:		5230	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1173.8174	28.07	3.03	-42.91	54.87	43.06	74.00	30.94	Pass	H	PK
2	2062.1562	31.79	4.35	-43.19	49.94	42.89	74.00	31.11	Pass	H	PK
3	2615.0000	32.58	4.79	-43.09	47.27	41.55	74.00	32.45	Pass	H	PK
4	6500.0000	35.90	8.67	-42.50	49.14	51.21	74.00	22.79	Pass	H	PK
5	8522.9511	36.65	6.66	-42.00	49.44	50.75	74.00	23.25	Pass	H	PK
6	10460.0000	38.44	7.49	-42.00	46.79	50.72	74.00	23.28	Pass	H	PK
7	1341.0341	28.24	3.33	-42.74	51.06	39.89	74.00	34.11	Pass	V	PK
8	2615.0000	32.58	4.79	-43.09	48.00	42.28	74.00	31.72	Pass	V	PK
9	3977.4477	33.78	6.33	-43.01	49.81	46.91	74.00	27.09	Pass	V	PK
10	6486.7987	35.90	8.61	-42.50	49.41	51.42	74.00	22.58	Pass	V	PK
11	9092.2296	37.68	6.67	-42.02	49.53	51.86	74.00	22.14	Pass	V	PK
12	10460.0000	38.44	7.49	-42.00	46.66	50.59	74.00	23.41	Pass	V	PK

Mode:			802.11ac(VHT80)					Channel:		5210	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1337.7338	28.24	3.33	-42.75	52.31	41.13	74.00	32.87	Pass	H	PK
2	2605.0000	32.57	4.78	-43.10	47.87	42.12	74.00	31.88	Pass	H	PK
3	3769.5270	33.62	5.97	-43.05	50.07	46.61	74.00	27.39	Pass	H	PK
4	6485.6986	35.90	8.61	-42.51	48.99	50.99	74.00	23.01	Pass	H	PK
5	9230.2365	37.65	6.65	-42.04	49.06	51.32	74.00	22.68	Pass	H	PK
6	10420.0000	38.39	7.53	-42.02	47.55	51.45	74.00	22.55	Pass	H	PK
7	1280.5281	28.18	3.26	-42.81	51.03	39.66	74.00	34.34	Pass	V	PK
8	2605.0000	32.57	4.78	-43.10	47.05	41.30	74.00	32.70	Pass	V	PK
9	3327.2827	33.33	5.55	-43.10	49.95	45.73	74.00	28.27	Pass	V	PK
10	6493.3993	35.90	8.64	-42.50	49.97	52.01	74.00	21.99	Pass	V	PK
11	7472.3736	36.57	6.51	-42.11	49.24	50.21	74.00	23.79	Pass	V	PK
12	10420.0000	38.39	7.53	-42.02	47.07	50.97	74.00	23.03	Pass	V	PK

Mode:			802.11 n(HT20) Transmitting					Channel:		5745		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark	
1	1116.0616	28.02	2.63	-42.98	52.89	40.56	74.00	33.44	Pass	H	PK	
2	2872.5000	33.00	4.48	-43.10	46.89	41.27	74.00	32.73	Pass	H	PK	
3	3778.8779	33.62	5.09	-43.04	51.01	46.68	74.00	27.32	Pass	H	PK	
4	6472.4973	35.89	7.32	-42.50	49.37	50.08	74.00	23.92	Pass	H	PK	
5	8919.7613	37.52	6.89	-42.00	50.07	52.48	74.00	21.52	Pass	H	PK	
6	11490.0000	38.89	7.94	-42.00	45.59	50.42	74.00	23.58	Pass	H	PK	
7	1438.9439	28.34	2.97	-42.84	51.90	40.37	74.00	33.63	Pass	V	PK	
8	2117.1617	31.86	3.68	-43.17	50.60	42.97	74.00	31.03	Pass	V	PK	
9	2872.5000	33.00	4.48	-43.10	47.50	41.88	74.00	32.12	Pass	V	PK	
10	6446.0946	35.89	7.12	-42.51	49.29	49.79	74.00	24.21	Pass	V	PK	
11	9135.2090	37.67	6.63	-42.03	49.35	51.62	74.00	22.38	Pass	V	PK	
12	11490.0000	38.89	7.94	-42.00	45.99	50.82	74.00	23.18	Pass	V	PK	

Mode:			802.11 n(HT20) Transmitting					Channel:		5785		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark	
1	1171.0671	28.07	2.78	-42.92	54.61	42.54	74.00	31.46	Pass	H	PK	
2	2892.5000	33.03	4.47	-43.10	47.95	42.35	74.00	31.65	Pass	H	PK	
3	3819.0319	33.66	5.19	-43.04	50.21	46.02	74.00	27.98	Pass	H	PK	
4	6472.4973	35.89	7.32	-42.50	49.71	50.42	74.00	23.58	Pass	H	PK	
5	8734.2156	37.12	6.86	-42.00	49.43	51.41	74.00	22.59	Pass	H	PK	
6	11570.0000	38.96	7.70	-41.99	44.79	49.46	74.00	24.54	Pass	H	PK	
7	1104.5105	28.00	2.60	-42.98	51.47	39.09	74.00	34.91	Pass	V	PK	
8	2892.5000	33.03	4.47	-43.10	46.43	40.83	74.00	33.17	Pass	V	PK	
9	3932.8933	33.75	5.46	-43.02	50.10	46.29	74.00	27.71	Pass	V	PK	
10	7919.1946	36.43	6.62	-42.18	49.15	50.02	74.00	23.98	Pass	V	PK	
11	9112.9742	37.68	6.64	-42.02	49.01	51.31	74.00	22.69	Pass	V	PK	
12	11570.0000	38.96	7.70	-41.99	46.18	50.85	74.00	23.15	Pass	V	PK	

Mode:			802.11 n(HT20) Transmitting					Channel:		5825	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1169.9670	28.07	2.78	-42.92	55.23	43.16	74.00	30.84	Pass	H	PK
2	2912.5000	33.06	4.50	-43.10	48.52	42.98	74.00	31.02	Pass	H	PK
3	3937.8438	33.75	5.45	-43.01	49.69	45.88	74.00	28.12	Pass	H	PK
4	6486.2486	35.90	7.44	-42.50	49.74	50.58	74.00	23.42	Pass	H	PK
5	9226.4484	37.65	6.65	-42.04	49.78	52.04	74.00	21.96	Pass	H	PK
6	11650.0000	39.02	7.54	-41.97	45.82	50.41	74.00	23.59	Pass	H	PK
7	1312.4312	28.21	2.92	-42.76	51.39	39.76	74.00	34.24	Pass	V	PK
8	2912.5000	33.06	4.50	-43.10	47.28	41.74	74.00	32.26	Pass	V	PK
9	4072.6073	33.90	5.30	-42.97	49.96	46.19	74.00	27.81	Pass	V	PK
10	6491.7492	35.90	7.49	-42.50	49.28	50.17	74.00	23.83	Pass	V	PK
11	9237.9492	37.65	6.67	-42.05	49.41	51.68	74.00	22.32	Pass	V	PK
12	11650.0000	39.02	7.54	-41.97	46.32	50.91	74.00	23.09	Pass	V	PK

Mode:			802.11 n(HT40) Transmitting					Channel:		5755	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1173.8174	28.07	2.79	-42.91	55.21	43.16	74.00	30.84	Pass	H	PK
2	2877.5000	33.00	4.48	-43.10	48.82	43.20	74.00	30.80	Pass	H	PK
3	3941.1441	33.75	5.45	-43.01	50.22	46.41	74.00	27.59	Pass	H	PK
4	6497.7998	35.90	7.54	-42.50	48.92	49.86	74.00	24.14	Pass	H	PK
5	7783.4856	36.49	6.35	-42.16	50.08	50.76	74.00	23.24	Pass	H	PK
6	11510.0000	38.91	7.91	-42.00	45.25	50.07	74.00	23.93	Pass	H	PK
7	1284.9285	28.18	2.90	-42.79	50.61	38.90	74.00	35.10	Pass	V	PK
8	2877.5000	33.00	4.48	-43.10	47.84	42.22	74.00	31.78	Pass	V	PK
9	3908.6909	33.73	5.48	-43.02	49.61	45.80	74.00	28.20	Pass	V	PK
10	6477.4477	35.90	7.37	-42.51	50.61	51.37	74.00	22.63	Pass	V	PK
11	9174.3116	37.67	6.61	-42.04	48.94	51.18	74.00	22.82	Pass	V	PK
12	11510.0000	38.91	7.91	-42.00	46.92	51.74	74.00	22.26	Pass	V	PK

Mode:			802.11 n(HT40) Transmitting					Channel:		5795	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1173.2673	28.07	2.79	-42.92	53.30	41.24	74.00	32.76	Pass	H	PK
2	2897.5000	33.04	4.47	-43.10	48.09	42.50	74.00	31.50	Pass	H	PK
3	3934.5435	33.75	5.46	-43.02	50.01	46.20	74.00	27.80	Pass	H	PK
4	6475.2475	35.90	7.35	-42.51	49.37	50.11	74.00	23.89	Pass	H	PK
5	8914.3943	37.51	6.89	-42.00	48.91	51.31	74.00	22.69	Pass	H	PK
6	11590.0000	38.97	7.73	-41.98	45.16	49.88	74.00	24.12	Pass	H	PK
7	1244.7745	28.14	2.86	-42.84	51.46	39.62	74.00	34.38	Pass	V	PK
8	2897.5000	33.04	4.47	-43.10	47.78	42.19	74.00	31.81	Pass	V	PK
9	3859.1859	33.69	5.25	-43.03	50.17	46.08	74.00	27.92	Pass	V	PK
10	6471.3971	35.89	7.31	-42.50	49.70	50.40	74.00	23.60	Pass	V	PK
11	9254.8170	37.65	6.69	-42.05	48.92	51.21	74.00	22.79	Pass	V	PK
12	11590.0000	38.97	7.73	-41.98	44.21	48.93	74.00	25.07	Pass	V	PK

Mode:			802.11 ac(VHT80Mbps)					Channel:		5775	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1172.1672	28.07	2.79	-42.92	54.68	42.62	74.00	31.38	Pass	H	PK
2	2887.5000	33.02	4.47	-43.09	47.64	42.04	74.00	31.96	Pass	H	PK
3	3964.2464	33.77	5.41	-43.01	50.20	46.37	74.00	27.63	Pass	H	PK
4	6491.1991	35.90	7.48	-42.50	49.57	50.45	74.00	23.55	Pass	H	PK
5	8325.5550	36.53	6.54	-42.07	49.11	50.11	74.00	23.89	Pass	H	PK
6	11550.0000	38.94	7.67	-41.99	45.58	50.20	74.00	23.80	Pass	H	PK
7	1308.0308	28.21	2.92	-42.78	52.45	40.80	74.00	33.20	Pass	V	PK
8	2887.5000	33.02	4.47	-43.09	47.48	41.88	74.00	32.12	Pass	V	PK
9	3933.4433	33.75	5.46	-43.02	50.41	46.60	74.00	27.40	Pass	V	PK
10	6491.1991	35.90	7.48	-42.50	49.65	50.53	74.00	23.47	Pass	V	PK
11	9241.0161	37.65	6.67	-42.04	49.19	51.47	74.00	22.53	Pass	V	PK
12	11550.0000	38.94	7.67	-41.99	45.59	50.21	74.00	23.79	Pass	V	PK

Radiated Emission above 18GHz:

Mode:			802.11 ac(VHT80Mbps) Transmitting					Channel:		5210	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	20840.0000	38.68	0.00	-63.13	67.05	42.60	74.00	31.40	Pass	H	PK
2	23973.6789	40.13	0.00	-60.58	66.53	46.08	74.00	27.92	Pass	H	PK
3	26050.0000	40.40	0.00	-59.62	61.79	42.57	74.00	31.43	Pass	H	PK
4	31260.0000	41.47	0.00	-59.21	62.56	44.82	74.00	29.18	Pass	H	PK
5	33474.5390	42.15	0.00	-57.99	63.60	47.76	74.00	26.24	Pass	H	PK
6	36470.0000	43.12	0.00	-57.82	59.00	44.30	74.00	29.70	Pass	H	PK
7	20840.0000	38.68	0.00	-63.13	65.71	41.26	74.00	32.74	Pass	V	PK
8	24647.7859	40.52	0.00	-60.36	66.32	46.48	74.00	27.52	Pass	V	PK
9	26050.0000	40.40	0.00	-59.62	62.58	43.36	74.00	30.64	Pass	V	PK
10	31260.0000	41.47	0.00	-59.21	61.05	43.31	74.00	30.69	Pass	V	PK
11	36470.0000	43.12	0.00	-57.82	60.33	45.63	74.00	28.37	Pass	V	PK
12	39022.2809	44.46	0.00	-55.21	60.68	49.93	74.00	24.07	Pass	V	PK

Note:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Appendix J) Unwanted Emissions that fall Outside of the Restricted Bands

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak
Test Procedure:					
<p>a) The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c) The antenna 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.</p> <p>d) 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.</p> <p>e) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f) Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</p> <p>j) Test the EUT in the lowest channel or/and the middle channel , the Highest channel</p> <p>h) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</p> <p>i) Repeat above procedures until all frequencies measured was complete.</p>					
Limit:	Transmitter Operation Frequency(MHz)	Limit (EIRP)	Limit (dBμV/m)@3m	Measurement distance (cm)	
	5150-5350	-27dBm/MHz	68.2dBuV/m	3	
	5470-5725	-27dBm/MHz	68.2dBuV/m	3	
	Note: (i) $EIRP = ((E*d)^2) / 30$ where: • E is the field strength in V/m; • d is the measurement distance in meters; • EIRP is the equivalent isotropically radiated power in watts. (ii) Working in dB units, the above equation is equivalent to: $EIRP[dBm] = E[dBμV/m] + 20 \log(d[meters]) - 104.77$ (iii) Or, if d is 3 meters: $EIRP[dBm] = E[dBμV/m] - 95.2$				
Test result:	PASS				

Test Data:

For the all emission,out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit. Refer to test item“Unwanted Emissions in the Restricted Bands (Radiated Emission)” test result.

Radiated Emission above 68.2GHz:

Mode:			802.11 n(HT20) Transmitting					Channel:		5180	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1332.2332	28.23	3.33	-42.75	51.61	40.42	68.20	27.78	Pass	H	PK
2	2353.6854	32.20	4.66	-43.14	50.57	44.29	68.20	23.91	Pass	H	PK
3	5209.5710	34.71	7.44	-42.71	47.95	47.39	68.20	20.81	Pass	H	PK
4	8873.7187	37.42	6.87	-41.99	49.22	51.52	68.20	16.68	Pass	H	PK
5	13913.2707	39.65	9.01	-41.72	50.74	57.68	68.20	10.52	Pass	H	PK
6	17566.4283	42.65	12.43	-40.99	50.75	64.84	68.20	3.36	Pass	H	PK
7	1825.6326	30.55	3.90	-42.78	51.41	43.08	68.20	25.12	Pass	V	PK
8	3179.8680	33.27	5.64	-43.10	50.52	46.33	68.20	21.87	Pass	V	PK
9	5171.6172	34.67	7.54	-42.73	53.05	52.53	68.20	15.67	Pass	V	PK
10	6489.5490	35.90	8.63	-42.51	49.42	51.44	68.20	16.76	Pass	V	PK
11	10294.0397	38.21	7.19	-42.04	49.81	53.17	68.20	15.03	Pass	V	PK
12	17534.8017	42.67	12.44	-41.00	50.20	64.31	68.20	3.89	Pass	V	PK

Mode:			802.11 n(HT20) Transmitting					Channel:		5200	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1304.7305	28.20	3.33	-42.78	51.32	40.07	68.20	28.13	Pass	H	PK
2	2448.2948	32.33	4.67	-43.11	50.50	44.39	68.20	23.81	Pass	H	PK
3	3929.5930	33.74	6.25	-43.01	51.15	48.13	68.20	20.07	Pass	H	PK
4	5207.3707	34.71	7.44	-42.72	49.42	48.85	68.20	19.35	Pass	H	PK
5	10616.0558	38.52	7.27	-42.00	48.94	52.73	68.20	15.47	Pass	H	PK
6	17587.1294	42.63	12.31	-40.99	50.15	64.10	68.20	4.10	Pass	H	PK
7	1325.6326	28.23	3.33	-42.76	51.25	40.05	68.20	28.15	Pass	V	PK
8	2563.2563	32.50	4.83	-43.10	50.24	44.47	68.20	23.73	Pass	V	PK
9	5207.9208	34.71	7.44	-42.72	54.15	53.58	68.20	14.62	Pass	V	PK
10	7348.7424	36.45	6.41	-42.13	49.08	49.81	68.20	18.39	Pass	V	PK
11	10576.3788	38.52	7.29	-42.01	49.19	52.99	68.20	15.21	Pass	V	PK
12	17569.3035	42.64	12.41	-40.98	50.34	64.41	68.20	3.79	Pass	V	PK

Mode:			802.11 n(HT20) Transmitting					Channel:		5240		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark	
1	1327.2827	28.23	3.33	-42.76	51.74	40.54	68.20	27.66	Pass	H	PK	
2	2840.4840	32.94	5.04	-43.10	50.73	45.61	68.20	22.59	Pass	H	PK	
3	5232.1232	34.73	7.45	-42.71	48.49	47.96	68.20	20.24	Pass	H	PK	
4	6431.2431	35.89	8.48	-42.52	49.97	51.82	68.20	16.38	Pass	H	PK	
5	13104.2052	39.56	7.89	-41.89	49.36	54.92	68.20	13.28	Pass	H	PK	
6	17573.9037	42.64	12.39	-40.99	50.42	64.46	68.20	3.74	Pass	H	PK	
7	1364.6865	28.26	3.33	-42.71	50.58	39.46	68.20	28.74	Pass	V	PK	
8	2408.1408	32.27	4.64	-43.11	51.05	44.85	68.20	23.35	Pass	V	PK	
9	3204.0704	33.28	5.73	-43.10	50.47	46.38	68.20	21.82	Pass	V	PK	
10	5233.2233	34.73	7.45	-42.71	56.11	55.58	68.20	12.62	Pass	V	PK	
11	8986.4243	37.67	6.84	-42.00	49.33	51.84	68.20	16.36	Pass	V	PK	
12	17573.9037	42.64	12.39	-40.99	50.59	64.63	68.20	3.57	Pass	V	PK	

Mode:			802.11n(HT40)					Channel:		5190		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark	
1	1557.7558	28.78	3.54	-42.98	51.50	40.84	68.20	27.36	Pass	H	PK	
2	3206.8207	33.28	5.72	-43.10	50.75	46.65	68.20	21.55	Pass	H	PK	
3	5213.4213	34.71	7.44	-42.71	46.97	46.41	68.20	21.79	Pass	H	PK	
4	6495.0495	35.90	8.65	-42.50	49.08	51.13	68.20	17.07	Pass	H	PK	
5	11266.9883	38.76	7.69	-42.00	49.91	54.36	68.20	13.84	Pass	H	PK	
6	17591.7296	42.63	12.28	-40.99	51.01	64.93	68.20	3.27	Pass	H	PK	
7	1083.0583	27.98	2.89	-43.01	51.25	39.11	68.20	29.09	Pass	V	PK	
8	2044.5545	31.76	4.26	-43.19	50.72	43.55	68.20	24.65	Pass	V	PK	
9	4358.6359	34.30	6.62	-42.85	50.68	48.75	68.20	19.45	Pass	V	PK	
10	5207.3707	34.71	7.44	-42.72	50.50	49.93	68.20	18.27	Pass	V	PK	
11	11233.0617	38.74	7.67	-42.00	49.28	53.69	68.20	14.51	Pass	V	PK	
12	17566.4283	42.65	12.43	-40.99	50.56	64.65	68.20	3.55	Pass	V	PK	

Mode:			802.11n(HT40)					Channel:		5230	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1173.8174	28.07	3.03	-42.91	54.87	43.06	68.20	25.14	Pass	H	PK
2	2137.5138	31.89	4.39	-43.17	50.74	43.85	68.20	24.35	Pass	H	PK
3	4646.3146	34.50	6.82	-42.80	50.06	48.58	68.20	19.62	Pass	H	PK
4	5217.2717	34.72	7.44	-42.71	47.60	47.05	68.20	21.15	Pass	H	PK
5	11870.7685	39.20	7.66	-41.93	49.72	54.65	68.20	13.55	Pass	H	PK
6	17566.4283	42.65	12.43	-40.99	50.18	64.27	68.20	3.93	Pass	H	PK
7	1341.0341	28.24	3.33	-42.74	51.06	39.89	68.20	28.31	Pass	V	PK
8	3082.5083	33.23	5.51	-43.09	50.14	45.79	68.20	22.41	Pass	V	PK
9	5220.0220	34.72	7.44	-42.71	55.93	55.38	68.20	12.82	Pass	V	PK
10	6486.7987	35.90	8.61	-42.50	49.41	51.42	68.20	16.78	Pass	V	PK
11	12461.3231	39.58	7.91	-41.90	49.94	55.53	68.20	12.67	Pass	V	PK
12	17578.5039	42.64	12.36	-40.99	50.74	64.75	68.20	3.45	Pass	V	PK

Mode:			802.11ac(VHT80)					Channel:		5210	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1337.7338	28.24	3.33	-42.75	52.31	41.13	68.20	27.07	Pass	H	PK
2	2342.1342	32.18	4.66	-43.13	50.28	43.99	68.20	24.21	Pass	H	PK
3	3769.5270	33.62	5.97	-43.05	50.07	46.61	68.20	21.59	Pass	H	PK
4	5212.3212	34.71	7.44	-42.71	49.38	48.82	68.20	19.38	Pass	H	PK
5	10704.0352	38.54	7.30	-42.00	49.31	53.15	68.20	15.05	Pass	H	PK
6	17556.0778	42.66	12.49	-40.99	50.44	64.60	68.20	3.60	Pass	H	PK
7	1280.5281	28.18	3.26	-42.81	51.03	39.66	68.20	28.54	Pass	V	PK
8	3053.9054	33.22	5.48	-43.09	50.54	46.15	68.20	22.05	Pass	V	PK
9	5216.1716	34.72	7.44	-42.71	58.98	58.43	68.20	9.77	Pass	V	PK
10	10425.7213	38.40	7.52	-42.01	48.98	52.89	68.20	15.31	Pass	V	PK
11	15102.4301	40.50	10.10	-41.78	49.63	58.45	68.20	9.75	Pass	V	PK
12	17565.2783	42.65	12.44	-40.99	50.81	64.91	68.20	3.29	Pass	V	PK

Mode:			802.11 n(HT20) Transmitting					Channel:		5745	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1116.0616	28.02	2.63	-42.98	52.89	40.56	68.20	27.64	Pass	H	PK
2	2221.6722	32.01	3.95	-43.15	50.43	43.24	68.20	24.96	Pass	H	PK
3	3052.2552	33.22	4.65	-43.10	51.21	45.98	68.20	22.22	Pass	H	PK
4	5738.7239	35.38	6.99	-42.60	48.92	48.69	68.20	19.51	Pass	H	PK
5	8919.7613	37.52	6.89	-42.00	50.07	52.48	68.20	15.72	Pass	H	PK
6	17584.4390	42.63	12.32	-40.98	50.11	64.08	68.20	4.12	Pass	H	PK
7	1679.3179	29.58	3.31	-42.71	50.79	40.97	68.20	27.23	Pass	V	PK
8	3034.6535	33.21	4.62	-43.09	49.91	44.65	68.20	23.55	Pass	V	PK
9	5738.7239	35.38	6.99	-42.60	54.83	54.60	68.20	13.60	Pass	V	PK
10	9135.2090	37.67	6.63	-42.03	49.35	51.62	68.20	16.58	Pass	V	PK
11	13905.7270	39.64	9.04	-41.71	49.87	56.84	68.20	11.36	Pass	V	PK
12	17569.1046	42.64	12.42	-40.99	50.54	64.61	68.20	3.59	Pass	V	PK

Mode:			802.11 n(HT20) Transmitting					Channel:		5785	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1171.0671	28.07	2.78	-42.92	54.61	42.54	68.20	25.66	Pass	H	PK
2	3207.3707	33.28	4.76	-43.09	50.39	45.34	68.20	22.86	Pass	H	PK
3	5735.4235	35.38	6.99	-42.60	49.55	49.32	68.20	18.88	Pass	H	PK
4	9254.0503	37.65	6.69	-42.05	49.04	51.33	68.20	16.87	Pass	H	PK
5	14404.8603	40.10	9.24	-41.69	49.27	56.92	68.20	11.28	Pass	H	PK
6	17585.2057	42.63	12.32	-40.98	50.14	64.11	68.20	4.09	Pass	H	PK
7	1312.9813	28.21	2.93	-42.77	50.67	39.04	68.20	29.16	Pass	V	PK
8	2523.1023	32.44	4.24	-43.11	50.36	43.93	68.20	24.27	Pass	V	PK
9	3932.8933	33.75	5.46	-43.02	50.10	46.29	68.20	21.91	Pass	V	PK
10	5777.2277	35.44	7.00	-42.60	53.68	53.52	68.20	14.68	Pass	V	PK
11	9112.9742	37.68	6.64	-42.02	49.01	51.31	68.20	16.89	Pass	V	PK
12	17588.2726	42.63	12.30	-40.98	51.09	65.04	68.20	3.16	Pass	V	PK

Mode:			802.11 n(HT20) Transmitting					Channel:		5825	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1169.9670	28.07	2.78	-42.92	55.23	43.16	68.20	25.04	Pass	H	PK
2	2529.1529	32.45	4.26	-43.10	50.87	44.48	68.20	23.72	Pass	H	PK
3	4563.8064	34.50	5.80	-42.80	50.17	47.67	68.20	20.53	Pass	H	PK
4	5816.8317	35.51	7.01	-42.60	48.58	48.50	68.20	19.70	Pass	H	PK
5	9226.4484	37.65	6.65	-42.04	49.78	52.04	68.20	16.16	Pass	H	PK
6	17562.2041	42.65	12.46	-40.99	50.02	64.14	68.20	4.06	Pass	H	PK
7	1312.4312	28.21	2.92	-42.76	51.39	39.76	68.20	28.44	Pass	V	PK
8	2708.4708	32.73	4.26	-43.10	51.15	45.04	68.20	23.16	Pass	V	PK
9	4072.6073	33.90	5.30	-42.97	49.96	46.19	68.20	22.01	Pass	V	PK
10	5820.6821	35.51	7.01	-42.60	53.28	53.20	68.20	15.00	Pass	V	PK
11	11270.5180	38.76	7.69	-42.00	49.03	53.48	68.20	14.72	Pass	V	PK
12	17571.4048	42.64	12.40	-40.98	50.10	64.16	68.20	4.04	Pass	V	PK

Mode:			802.11n(HT40)					Channel:		5755	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1173.8174	28.07	2.79	-42.91	55.21	43.16	68.20	25.04	Pass	H	PK
2	2053.9054	31.78	3.65	-43.19	50.55	42.79	68.20	25.41	Pass	H	PK
3	3098.4598	33.24	4.61	-43.10	50.03	44.78	68.20	23.42	Pass	H	PK
4	5794.2794	35.47	7.00	-42.60	47.91	47.78	68.20	20.42	Pass	H	PK
5	10420.2280	38.39	7.53	-42.02	49.75	53.65	68.20	14.55	Pass	H	PK
6	17576.7718	42.64	12.37	-40.99	50.22	64.24	68.20	3.96	Pass	H	PK
7	1725.5226	29.89	3.29	-42.68	50.38	40.88	68.20	27.32	Pass	V	PK
8	3076.4576	33.23	4.63	-43.10	50.65	45.41	68.20	22.79	Pass	V	PK
9	5738.7239	35.38	6.99	-42.60	51.90	51.67	68.20	16.53	Pass	V	PK
10	7803.4202	36.48	6.33	-42.16	49.84	50.49	68.20	17.71	Pass	V	PK
11	10243.8829	38.14	7.26	-42.05	49.57	52.92	68.20	15.28	Pass	V	PK
12	17566.0377	42.65	12.43	-40.99	50.73	64.82	68.20	3.38	Pass	V	PK

Mode:			802.11n(HT40) Transmitting					Channel:		5795	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1173.2673	28.07	2.79	-42.92	53.30	41.24	68.20	26.96	Pass	H	PK
2	2436.7437	32.31	4.01	-43.11	50.67	43.88	68.20	24.32	Pass	H	PK
3	3202.4202	33.28	4.73	-43.10	50.13	45.04	68.20	23.16	Pass	H	PK
4	5792.0792	35.47	7.00	-42.60	48.73	48.60	68.20	19.60	Pass	H	PK
5	8914.3943	37.51	6.89	-42.00	48.91	51.31	68.20	16.89	Pass	H	PK
6	17579.8387	42.64	12.35	-40.99	51.35	65.35	68.20	2.85	Pass	H	PK
7	1244.7745	28.14	2.86	-42.84	51.46	39.62	68.20	28.58	Pass	V	PK
8	2207.9208	31.99	3.89	-43.15	51.22	43.95	68.20	24.25	Pass	V	PK
9	5797.0297	35.48	7.00	-42.60	53.18	53.06	68.20	15.14	Pass	V	PK
10	9254.8170	37.65	6.69	-42.05	48.92	51.21	68.20	16.99	Pass	V	PK
11	11843.2562	39.17	7.70	-41.92	49.43	54.38	68.20	13.82	Pass	V	PK
12	17578.3052	42.64	12.36	-40.99	50.91	64.92	68.20	3.28	Pass	V	PK

Mode:			802.11ac(VHT80) Transmitting					Channel:		5775	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1172.1672	28.07	2.79	-42.92	54.68	42.62	68.20	25.58	Pass	H	PK
2	2684.8185	32.70	4.29	-43.10	50.59	44.48	68.20	23.72	Pass	H	PK
3	3964.2464	33.77	5.41	-43.01	50.20	46.37	68.20	21.83	Pass	H	PK
4	5776.6777	35.44	7.00	-42.60	48.00	47.84	68.20	20.36	Pass	H	PK
5	11254.4170	38.75	7.71	-41.99	49.77	54.24	68.20	13.96	Pass	H	PK
6	17580.6054	42.64	12.35	-40.99	51.26	65.26	68.20	2.94	Pass	H	PK
7	1308.0308	28.21	2.92	-42.78	52.45	40.80	68.20	27.40	Pass	V	PK
8	1966.9967	31.48	3.64	-43.11	50.17	42.18	68.20	26.02	Pass	V	PK
9	3195.2695	33.28	4.70	-43.10	50.66	45.54	68.20	22.66	Pass	V	PK
10	5797.5798	35.48	7.00	-42.60	53.43	53.31	68.20	14.89	Pass	V	PK
11	11842.4895	39.17	7.70	-41.93	49.85	54.79	68.20	13.41	Pass	V	PK
12	17546.1031	42.66	12.51	-40.99	50.69	64.87	68.20	3.33	Pass	V	PK

Note:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

2) Scan from 1GHz to 25GHz, the disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.