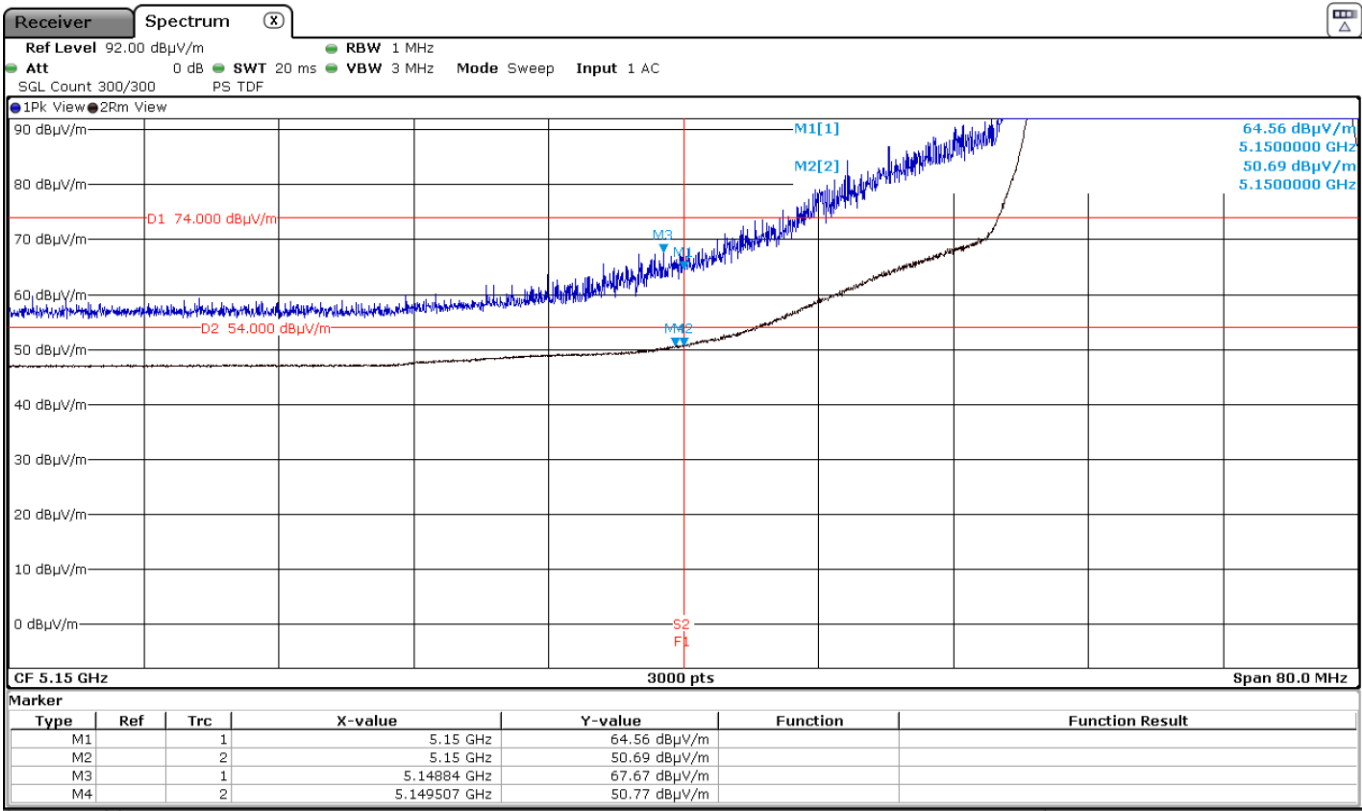
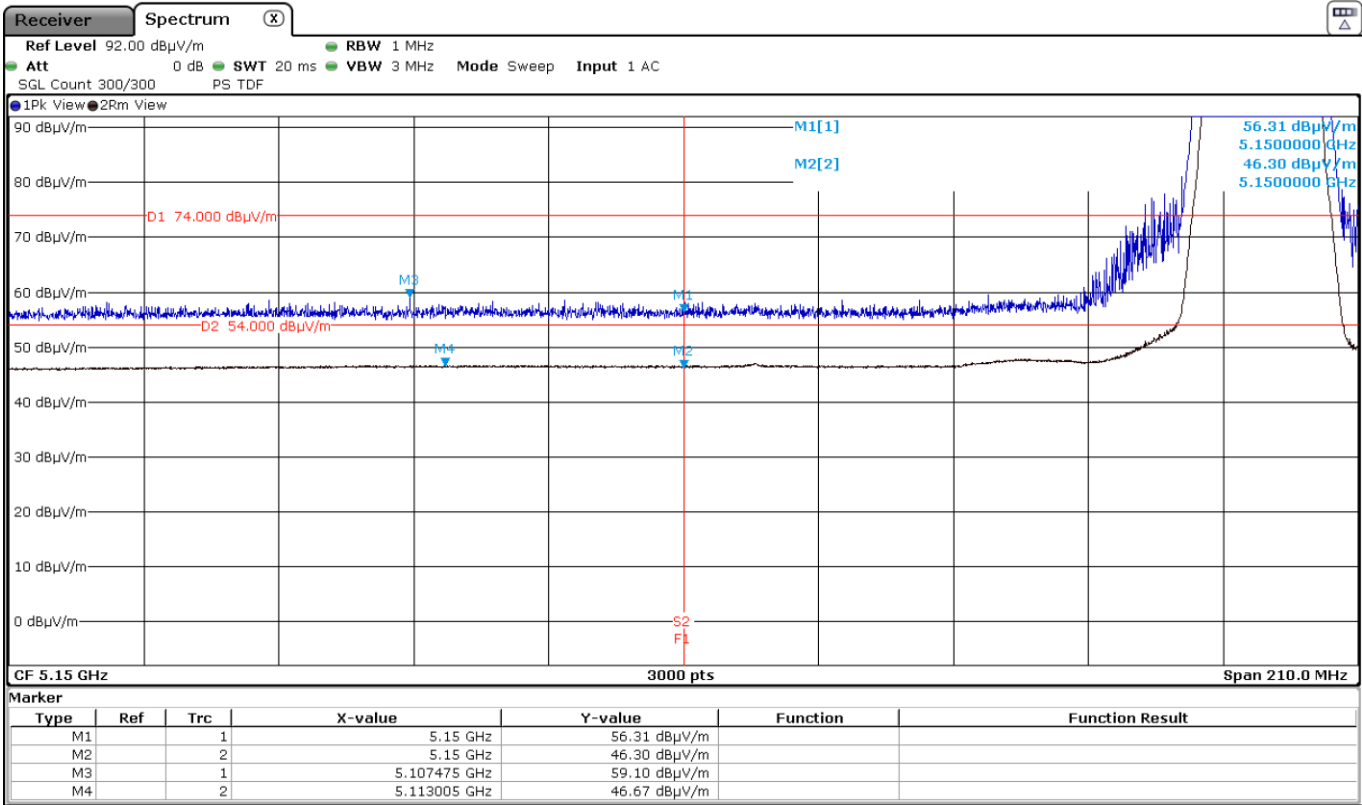


4500 MHz to 5150 MHz Lower Band Edge Channel 36



4500 MHz to 5150 MHz Lower Band Edge Channel 48



Results for Mode: 802.11n HT40 - 40 MHz – SISO - Core 2

Results: Peak / Channel 38

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	58.41	74	15.59	<± 3.05	PASS
5149.860	Vertical	60.76	74	13.24	<± 3.05	PASS

Results: Average / Channel 38

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	48.67	0.10	48.77	54	5.23	<± 3.05	PASS
5149.940	Vertical	48.89	0.10	48.99	54	5.01	<± 3.05	PASS

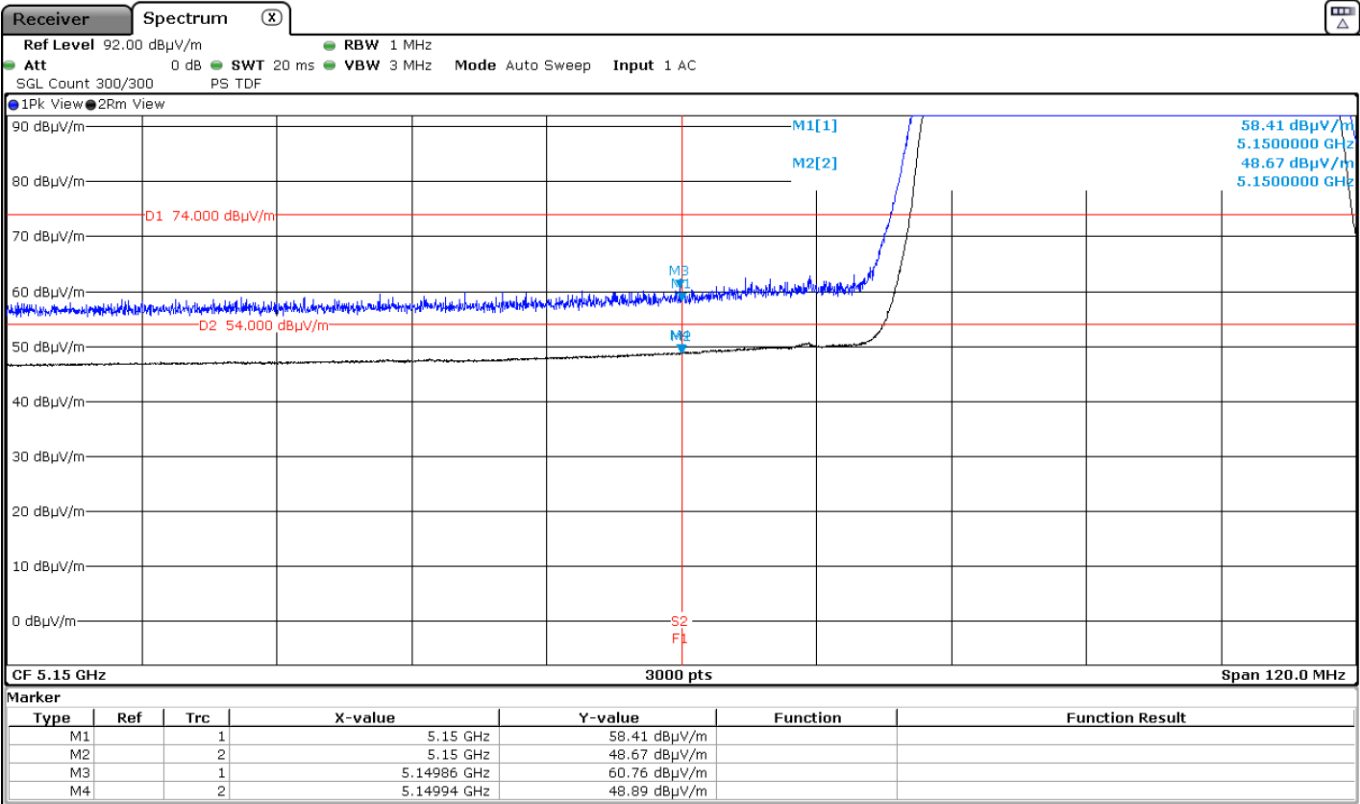
Results: Peak / Channel 46

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	62.36	74	11.64	<± 3.05	PASS
5149.700	Vertical	63.93	74	10.07	<± 3.05	PASS
5350	Vertical	57.74	74	16.26	<± 3.05	PASS
5436.275	Vertical	59.40	74	14.60	<± 3.05	PASS

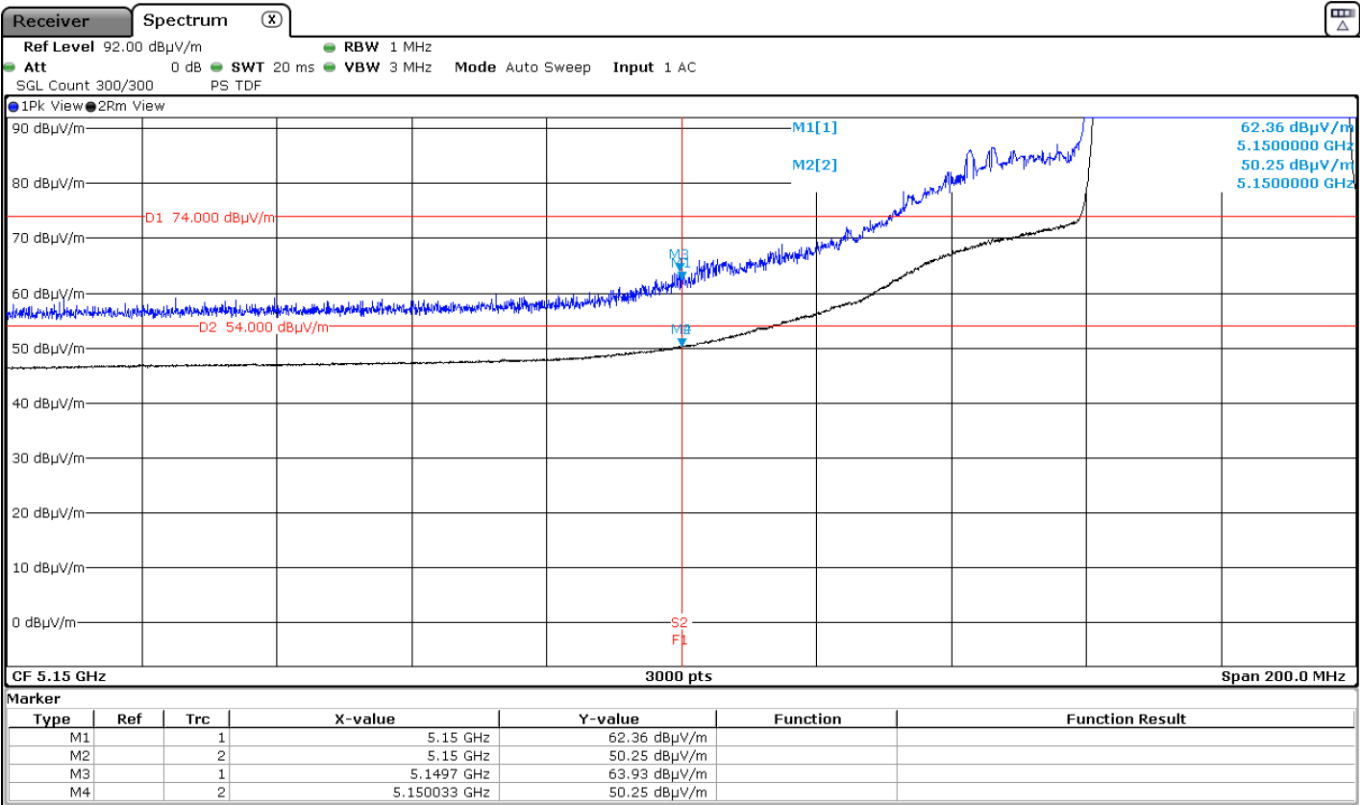
Results: Average / Channel 46

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	50.25	0.10	50.35	54	3,65	<± 3.05	PASS
5150.033	Vertical	50.25	0.10	50.35	54	3,65	<± 3.05	PASS
5350	Vertical	47.32	0.10	47.42	54	6,58	<± 3.05	PASS
5460.345	Vertical	47.54	0.10	47.64	54	6,36	<± 3.05	PASS

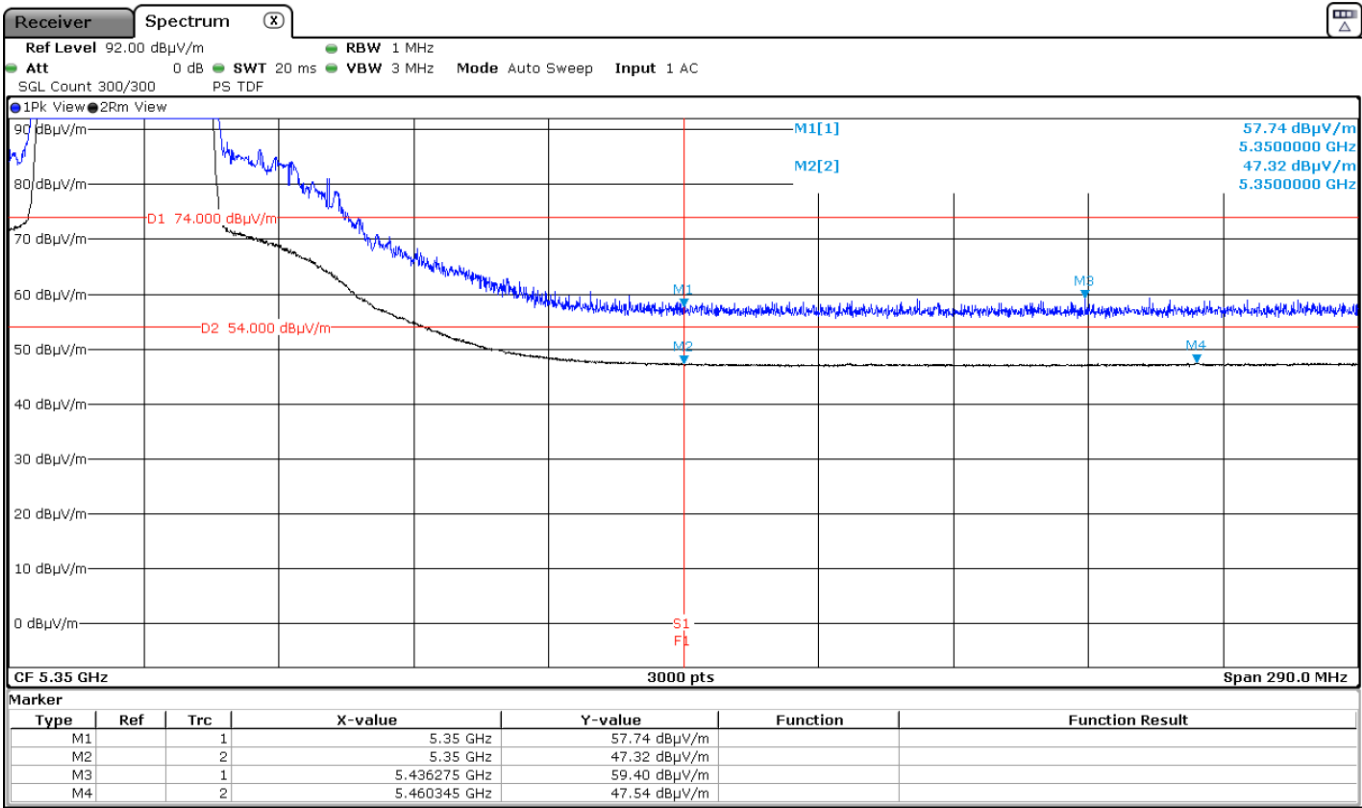
4500 MHz to 5150 MHz Lower Band Edge Channel 38



4500 MHz to 5150 MHz Lower Band Edge Channel 46



5350 MHz to 5460 MHz Upper Band Edge Channel 46



Results for Mode: 802.11n HT40 – CDD - 40 MHz – MIMO - Core 1+Core 2

Results: Peak / Channel 38

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	58.31	74	15.69	<± 3.05	PASS
5146.460	Vertical	59.65	74	14.35	<± 3.05	PASS

Results: Average / Channel 38

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	48.33	0.09	48.42	54	5.58	<± 3.05	PASS
5149.740	Vertical	48.40	0.09	48.49	54	5.51	<± 3.05	PASS

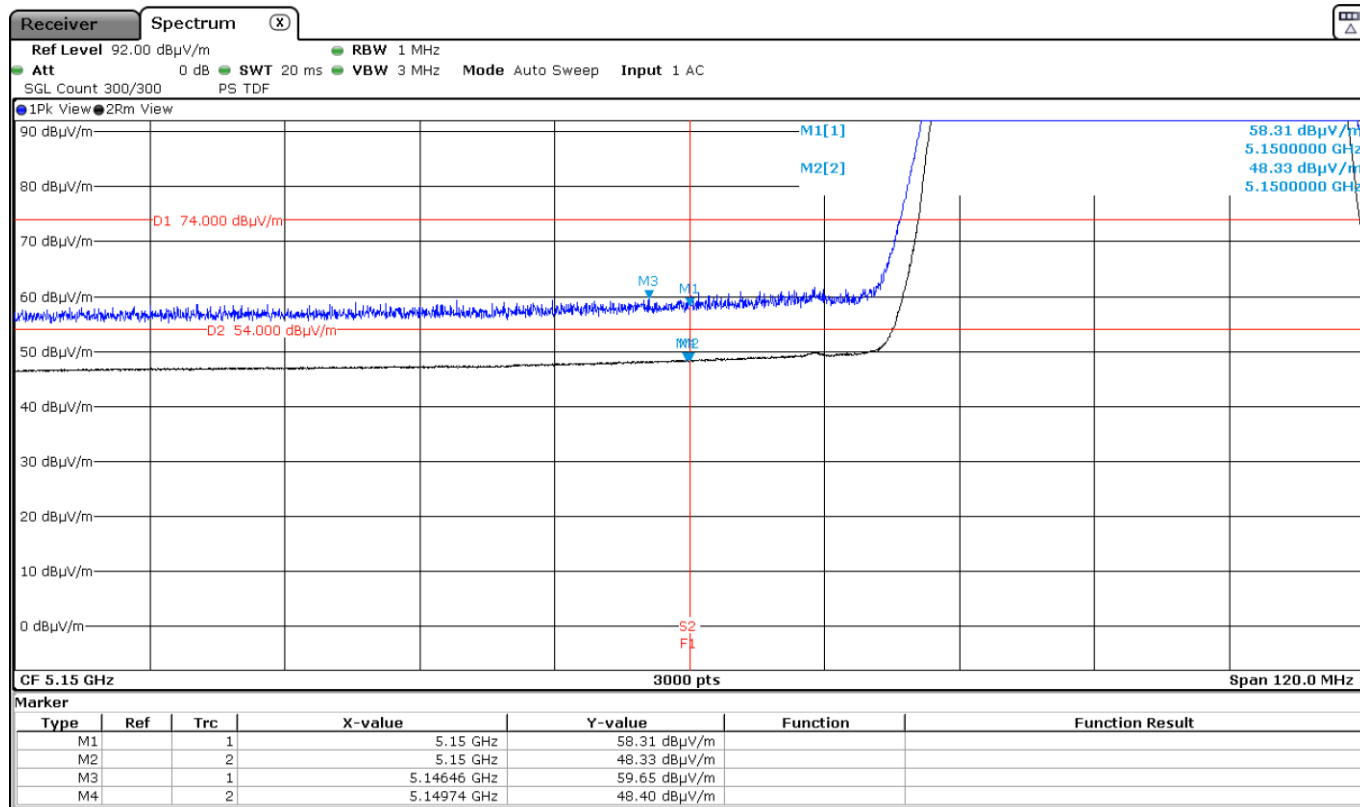
Results: Peak / Channel 46

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	59.70	74	14.3	<± 3.05	PASS
5149.700	Vertical	61.68	74	12.32	<± 3.05	PASS
5350	Vertical	56.65	74	17.35	<± 3.05	PASS
5453.772	Vertical	59.11	74	14.89	<± 3.05	PASS

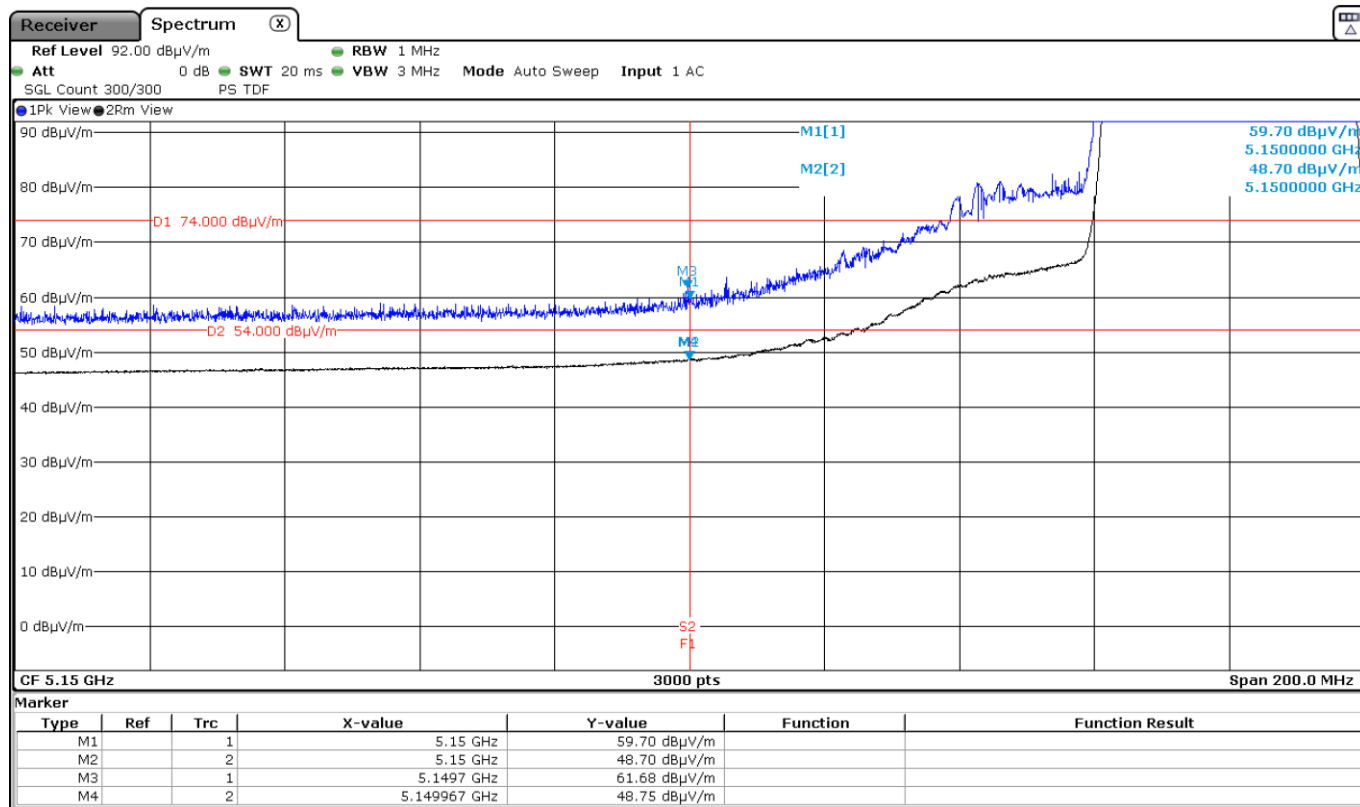
Results: Average / Channel 46

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	48.70	0.09	48.79	54	5.21	<± 3.05	PASS
5149.967	Vertical	48.75	0.09	48.84	54	5.16	<± 3.05	PASS
5350	Vertical	47.07	0.09	47.16	54	6.84	<± 3.05	PASS
5485.672	Vertical	47.28	0.09	47.37	54	6.63	<± 3.05	PASS

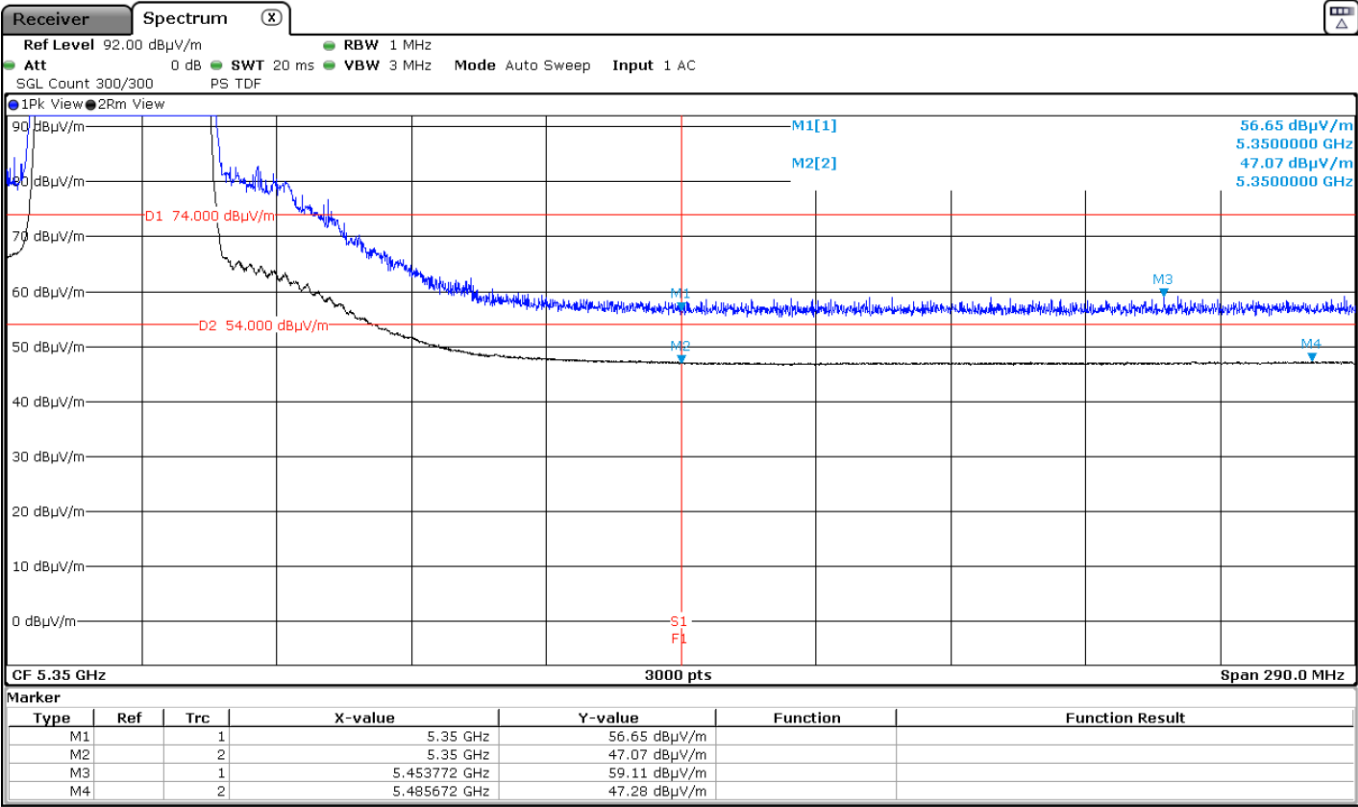
4500 MHz to 5150 MHz Lower Band Edge Channel 38



4500 MHz to 5150 MHz Lower Band Edge Channel 46



5350 MHz to 5460 MHz Upper Band Edge Channel 46



Results for Mode: 802.11n HT40 – SDM - 40 MHz – MIMO - Core 1+ Core 2

Results: Peak / Channel 38

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	58.94	74	15.06	<± 3.05	PASS
5145.940	Vertical	60.22	74	13.78	<± 3.05	PASS

Results: Average / Channel 38

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	48.08	0.14	48.22	54	5.78	<± 3.05	PASS
5149.700	Vertical	48.20	0.14	48.34	54	5.66	<± 3.05	PASS

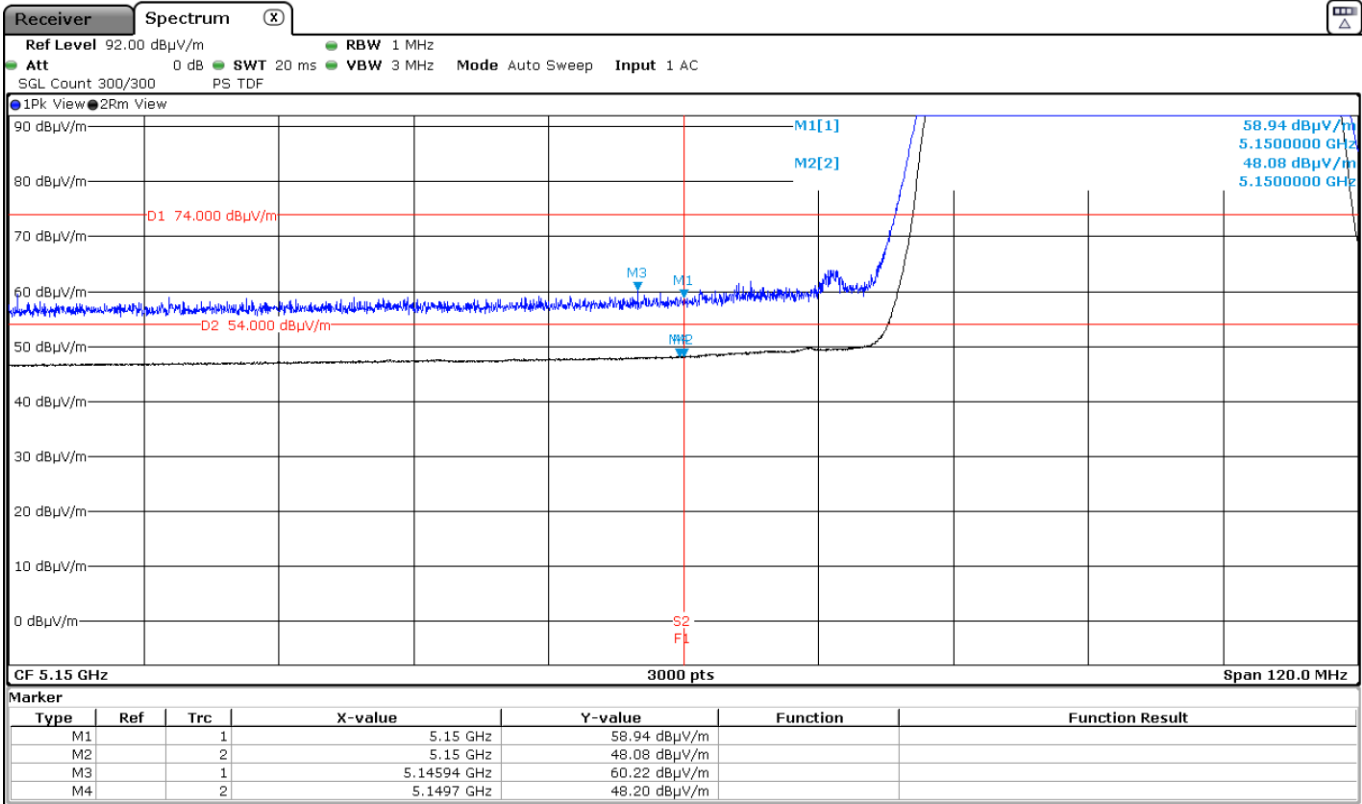
Results: Peak / Channel 46

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	61.53	74	12.47	<± 3.05	PASS
5150.033	Vertical	61.53	74	12.47	<± 3.05	PASS
5350	Vertical	56.70	74	17.3	<± 3.05	PASS
5476.682	Vertical	58.91	74	15.09	<± 3.05	PASS

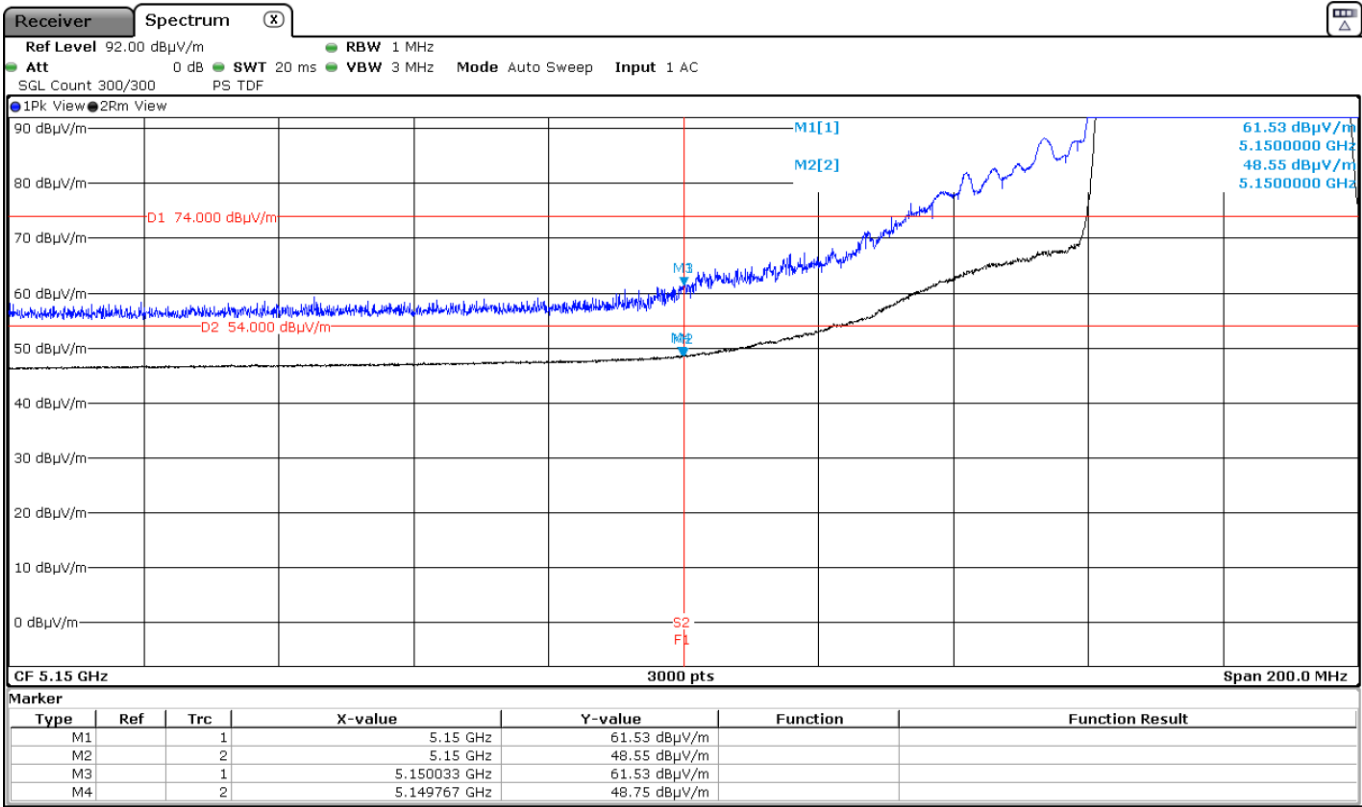
Results: Average / Channel 46

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	48.55	0.14	48.69	54	5.31	<± 3.05	PASS
5149.767	Vertical	48.75	0.14	48.89	54	5.11	<± 3.05	PASS
5350	Vertical	47.01	0.14	47.15	54	6.85	<± 3.05	PASS
5460.152	Vertical	47.36	0.14	47.5	54	6.5	<± 3.05	PASS

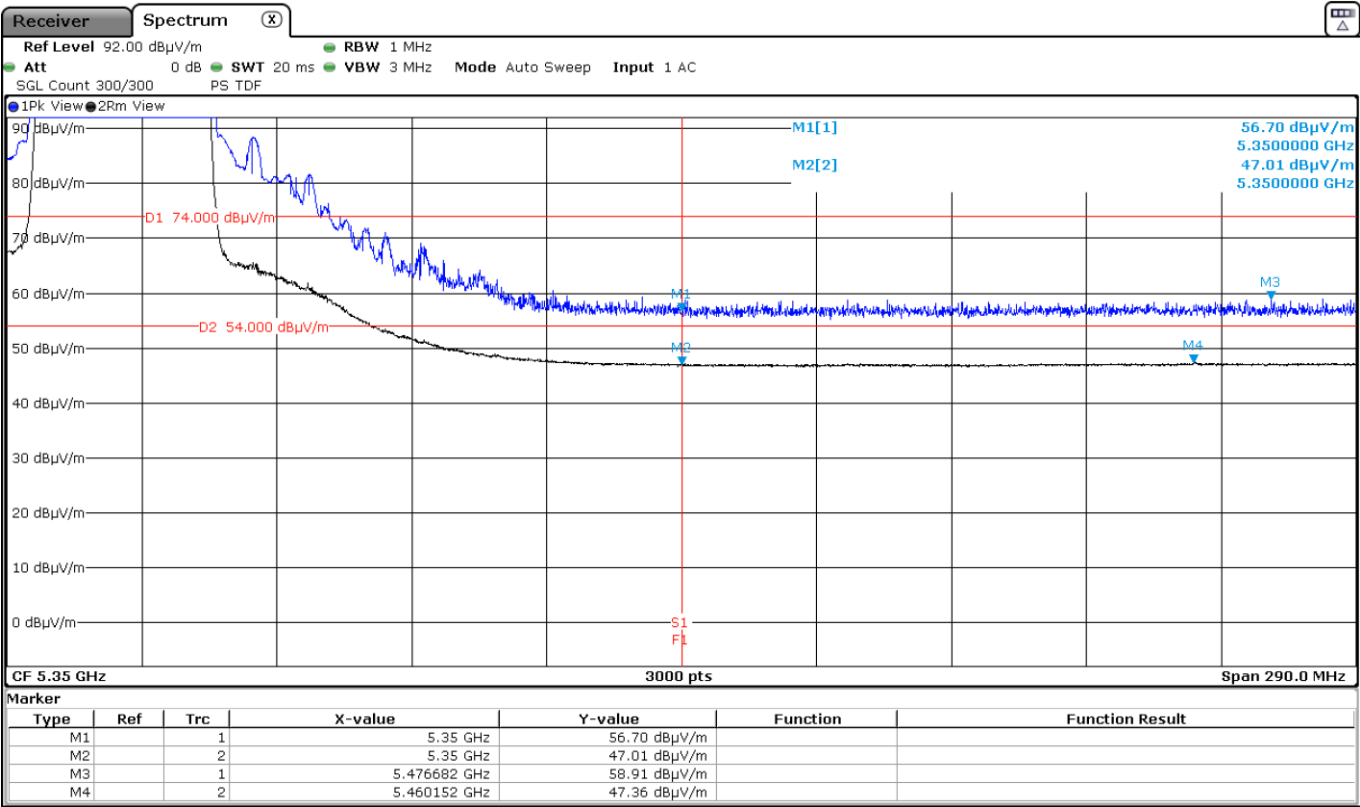
4500 MHz to 5150 MHz Lower Band Edge Channel 38



4500 MHz to 5150 MHz Lower Band Edge Channel 46



5350 MHz to 5460 MHz Upper Band Edge Channel 46



Results for Mode: 802.11n HT40 – TxBF - 40 MHz - MIMO - Core 1+Core 2

Results: Peak / Channel 38

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	57.86	74	16.14	<± 3.05	PASS
5149.42	Vertical	60.46	74	13.54	<± 3.05	PASS

Results: Average / Channel 38

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	47.36	0.13	47.49	54	6.51	<± 3.05	PASS
5149.62	Vertical	47.48	0.13	47.61	54	6.39	<± 3.05	PASS

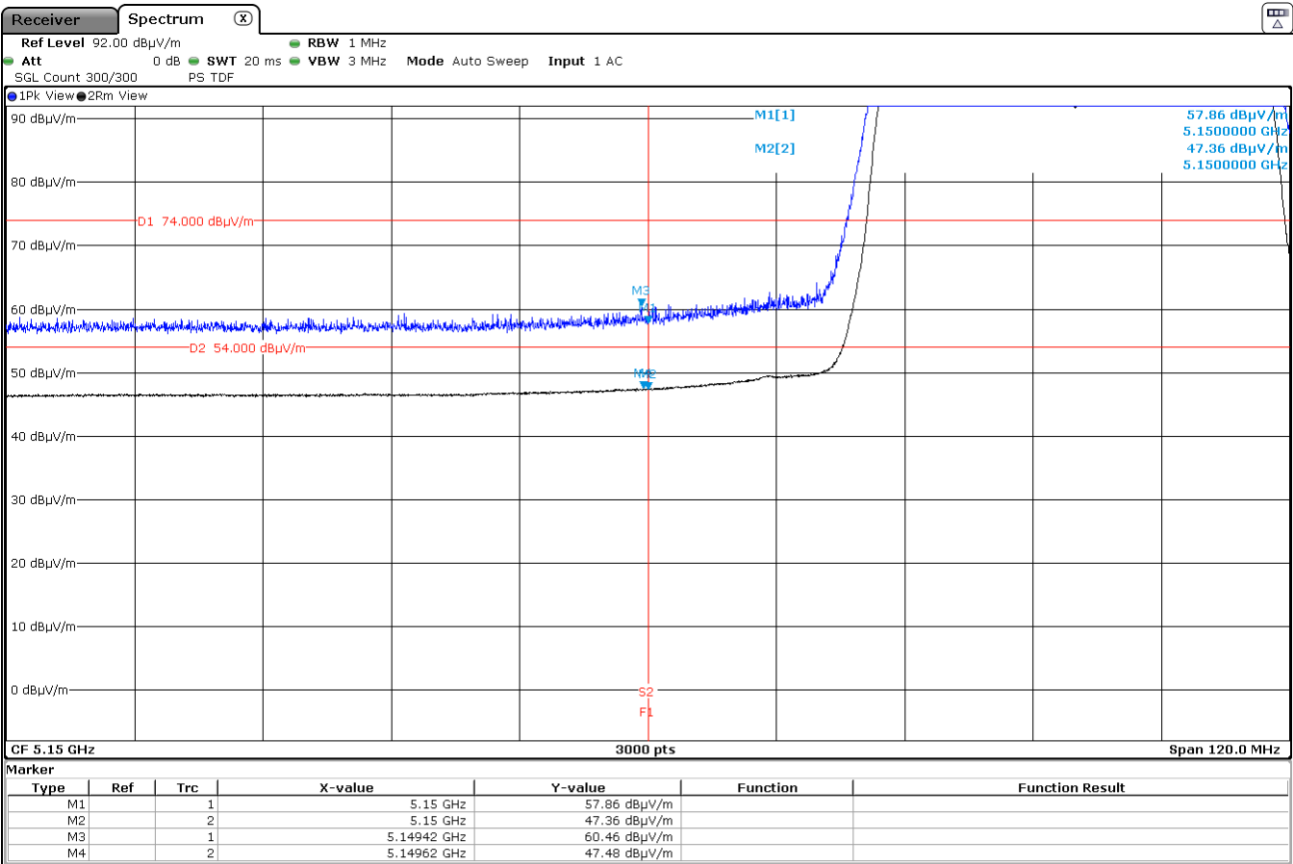
Results: Peak / Channel 46

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	59.37	74	14.63	<± 3.05	PASS
5146.967	Vertical	63.98	74	10.02	<± 3.05	PASS
5350	Vertical	58.07	74	15.93	<± 3.05	PASS
5435.405	Vertical	59.87	74	14.13	<± 3.05	PASS

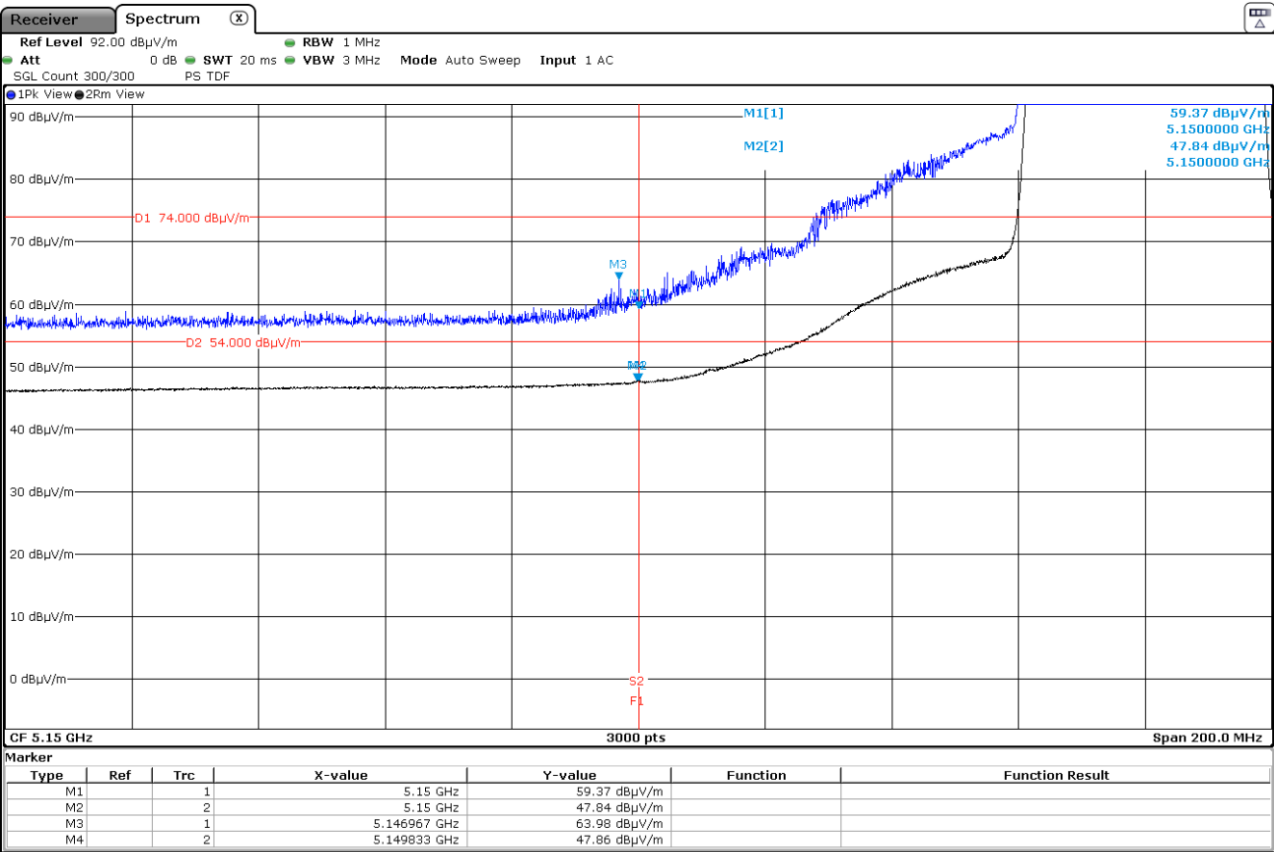
Results: Average / Channel 46

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	47.84	0.13	47.97	54	6.03	<± 3.05	PASS
5149.833	Vertical	47.86	0.13	47.99	54	6.01	<± 3.05	PASS
5350	Vertical	47.44	0.13	47.57	54	6.43	<± 3.05	PASS
5460.345	Vertical	48.14	0.13	48.27	54	5.73	<± 3.05	PASS

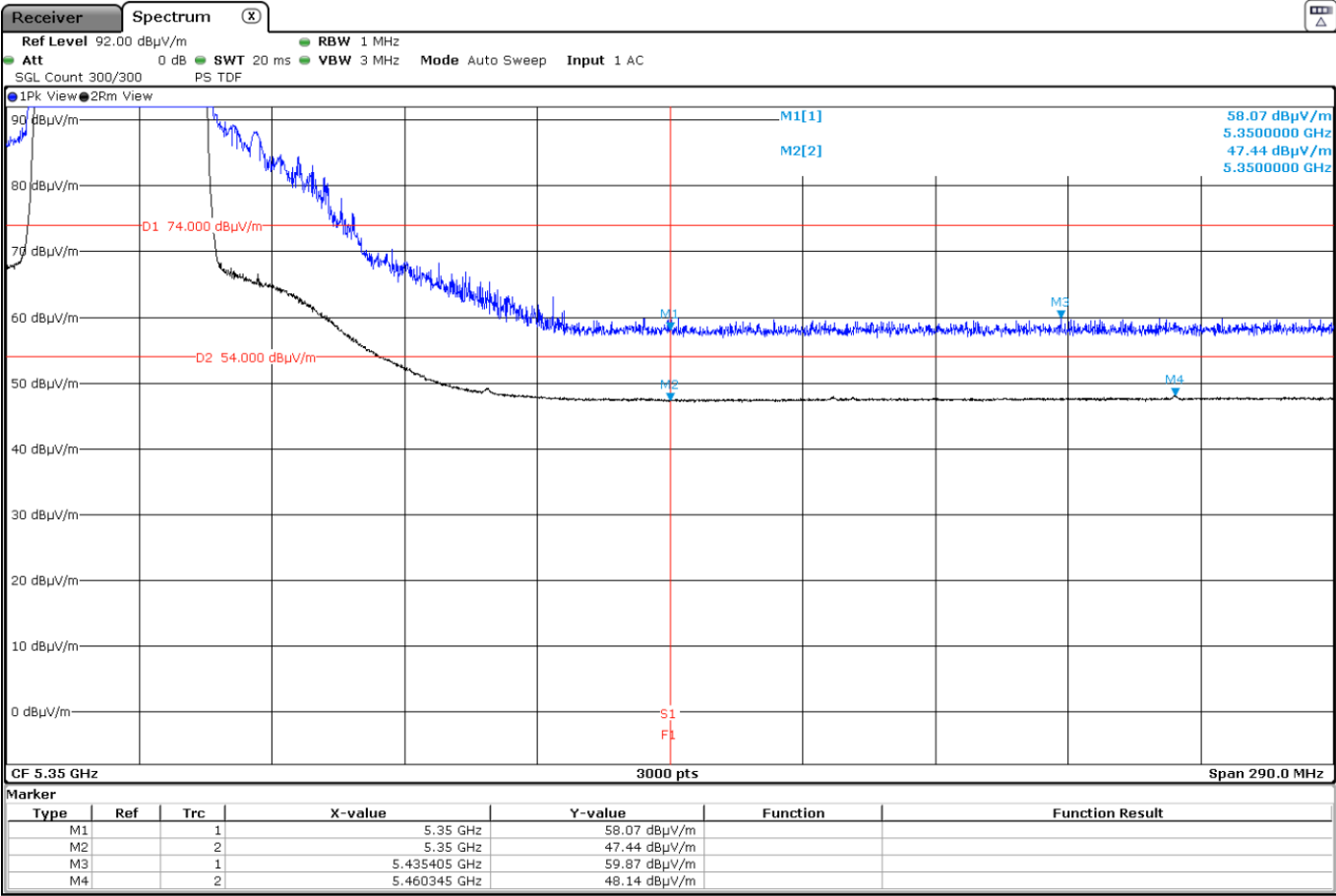
4500 MHz to 5150 MHz Lower Band Edge Channel 38



4500 MHz to 5150 MHz Lower Band Edge Channel 46



5350 MHz to 5460 MHz Upper Band Edge Channel 46



Results for Mode: 802.11n HT40 – CDD - 40 MHz – MIMO - Core 0 + Core 1+ Core 2

Results: Peak / Channel 38

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	58.25	74	15.75	<± 3.05	PASS
5147.180	Vertical	60.32	74	13.68	<± 3.05	PASS

Results: Average / Channel 38

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	48.05	54	5.95	<± 3.05	PASS
5149.500	Vertical	48.26	54	5.74	<± 3.05	PASS

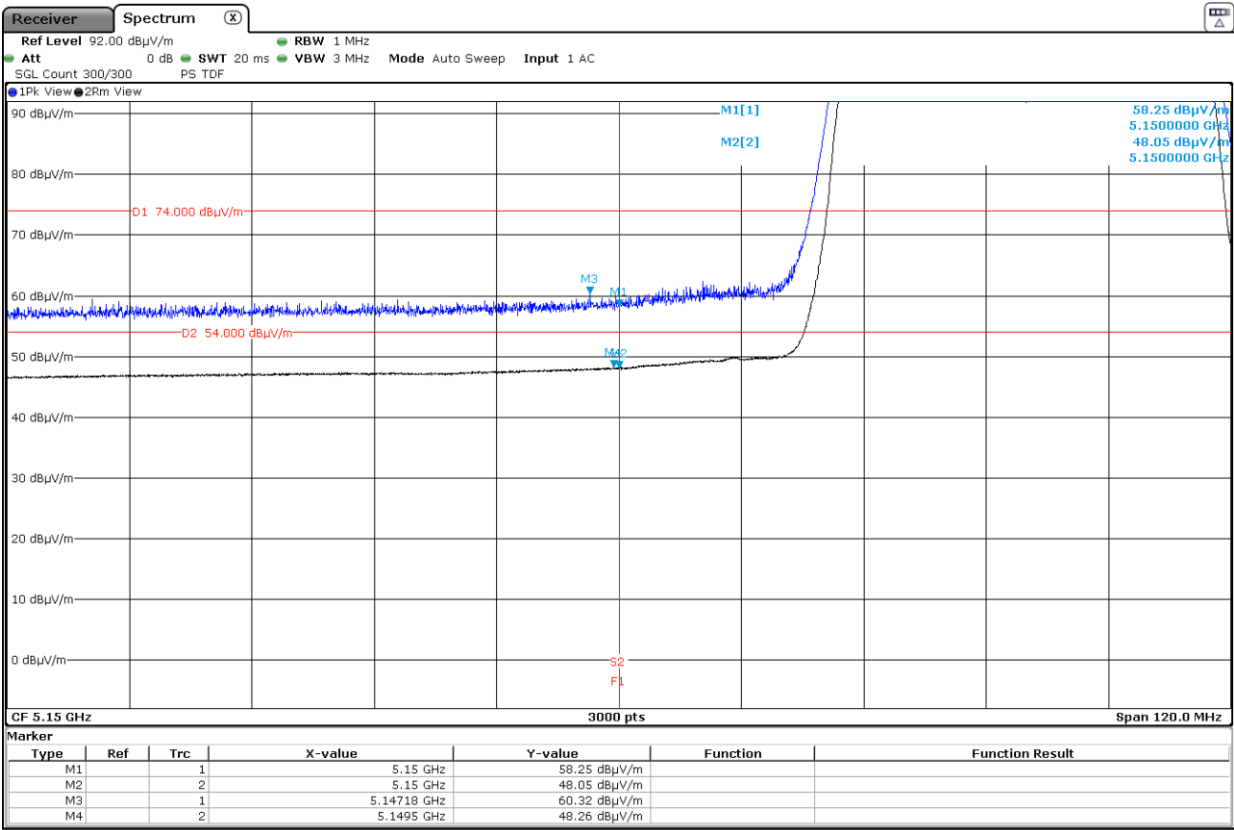
Results: Peak / Channel 46

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Horizontal	58.00	74	16.00	<± 3.05	PASS
5146.567	Horizontal	59.73	74	14.27	<± 3.05	PASS
5350	Horizontal	58.03	74	15.97	<± 3.05	PASS
5383.108	Horizontal	60.53	74	13.47	<± 3.05	PASS

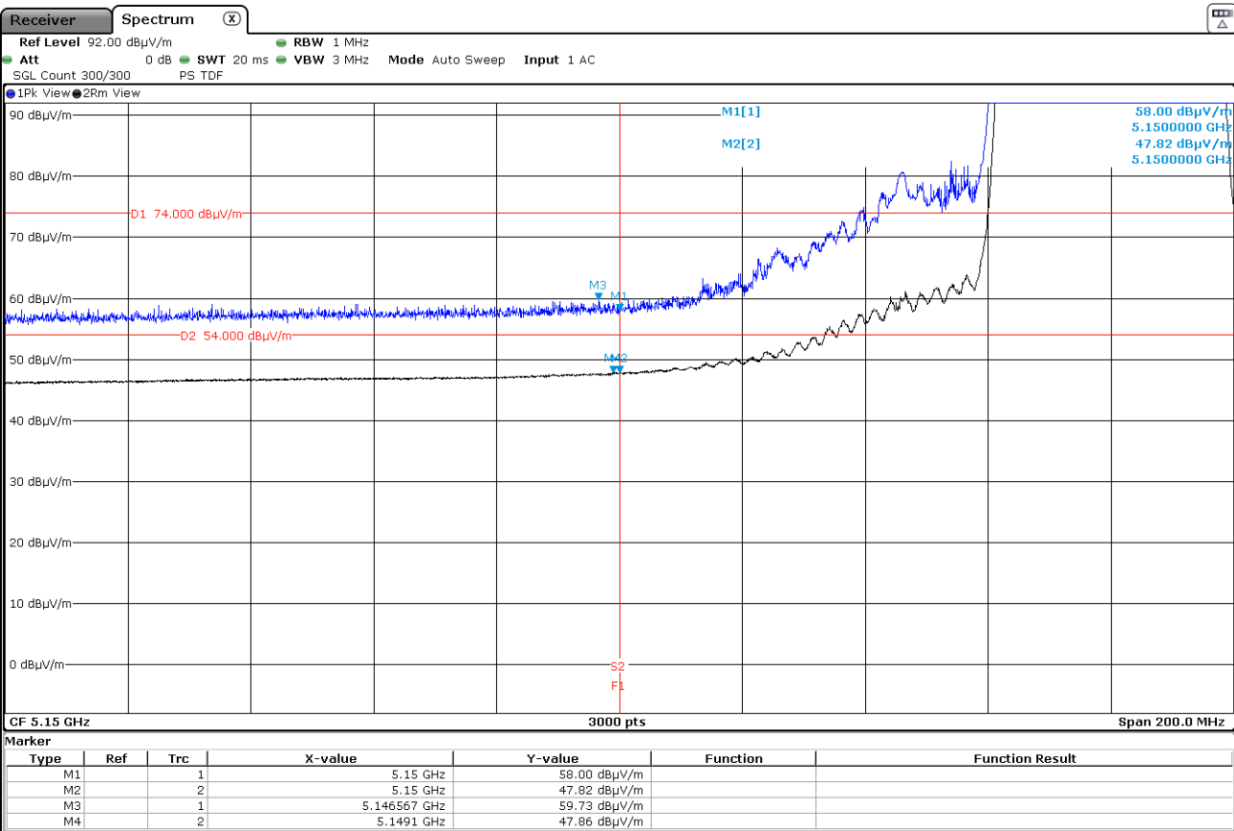
Results: Average / Channel 46

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Horizontal	47.82	54	6.18	<± 3.05	PASS
5149.100	Horizontal	47.86	54	6.14	<± 3.05	PASS
5350	Horizontal	48.07	54	5.93	<± 3.05	PASS
5356.815	Horizontal	48.13	54	5.87	<± 3.05	PASS

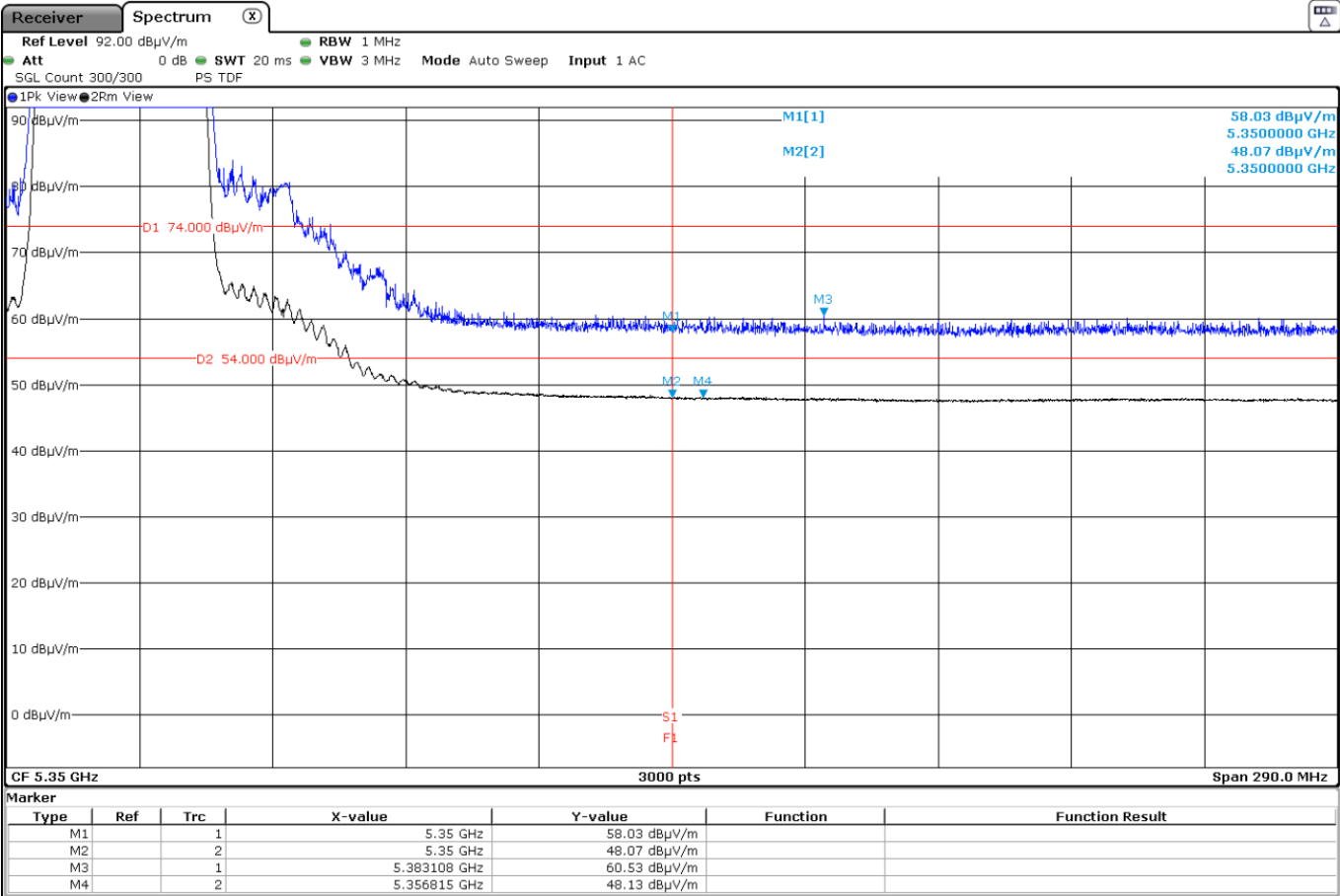
4500 MHz to 5150 MHz Lower Band Edge Channel 38



4500 MHz to 5150 MHz Lower Band Edge Channel 46



5350 MHz to 5460 MHz Upper Band Edge Channel 46



Results for Mode: 802.11n HT40 – SDM - 40 MHz - MIMO - Core 0 + Core 1+ Core 2

Results: Peak / Channel 38

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	58.45	74	15.55	<± 3.05	PASS
5146.300	Vertical	61.06	74	12.94	<± 3.05	PASS

Results: Average / Channel 38

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	48.58	0.22	48.80	54	5.20	<± 3.05	PASS
5149.980	Vertical	48.60	0.22	48.82	54	5.18	<± 3.05	PASS

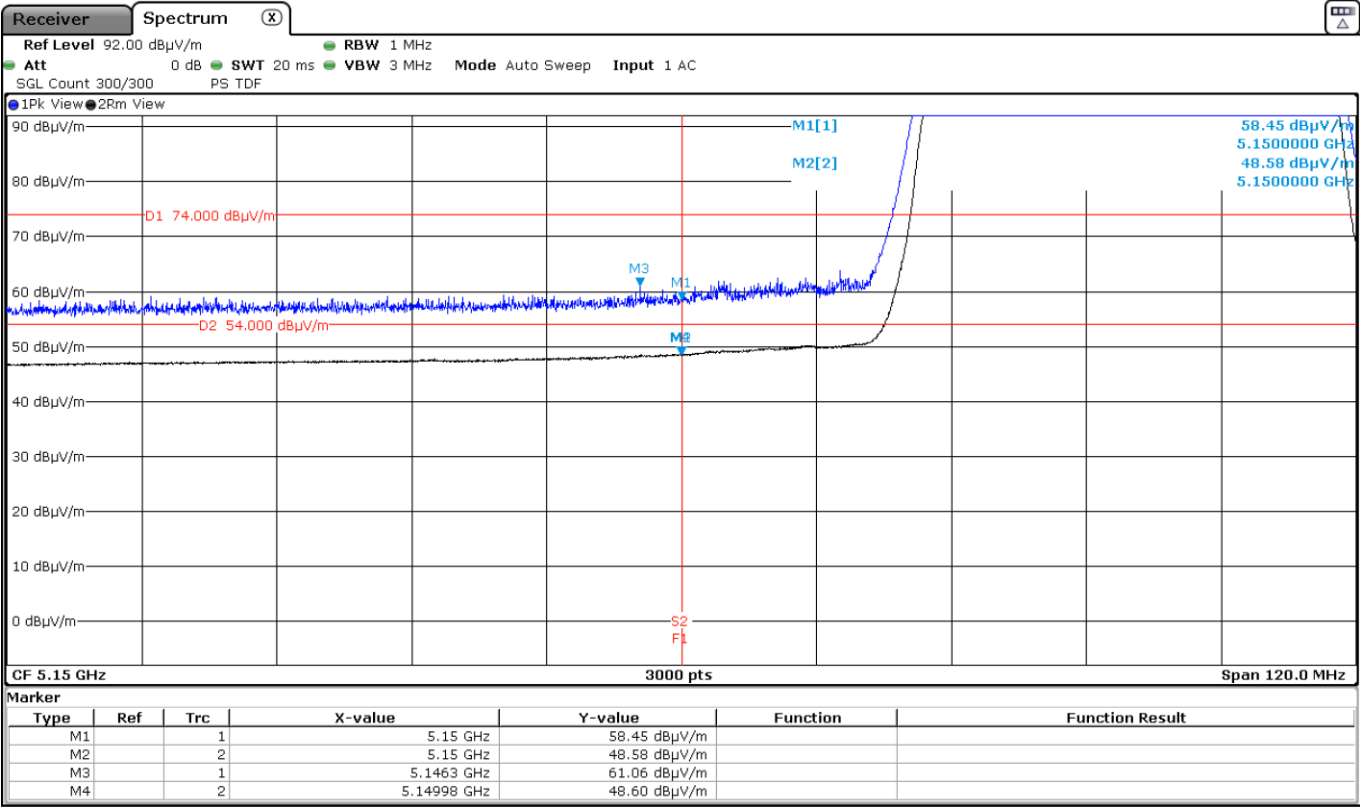
Results: Peak / Channel 46

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Horizontal	57.88	74	16.12	<± 3.05	PASS
5149.700	Horizontal	59.82	74	14.18	<± 3.05	PASS
5350	Horizontal	56.17	74	17.83	<± 3.05	PASS
5421.872	Horizontal	59.39	74	14.61	<± 3.05	PASS

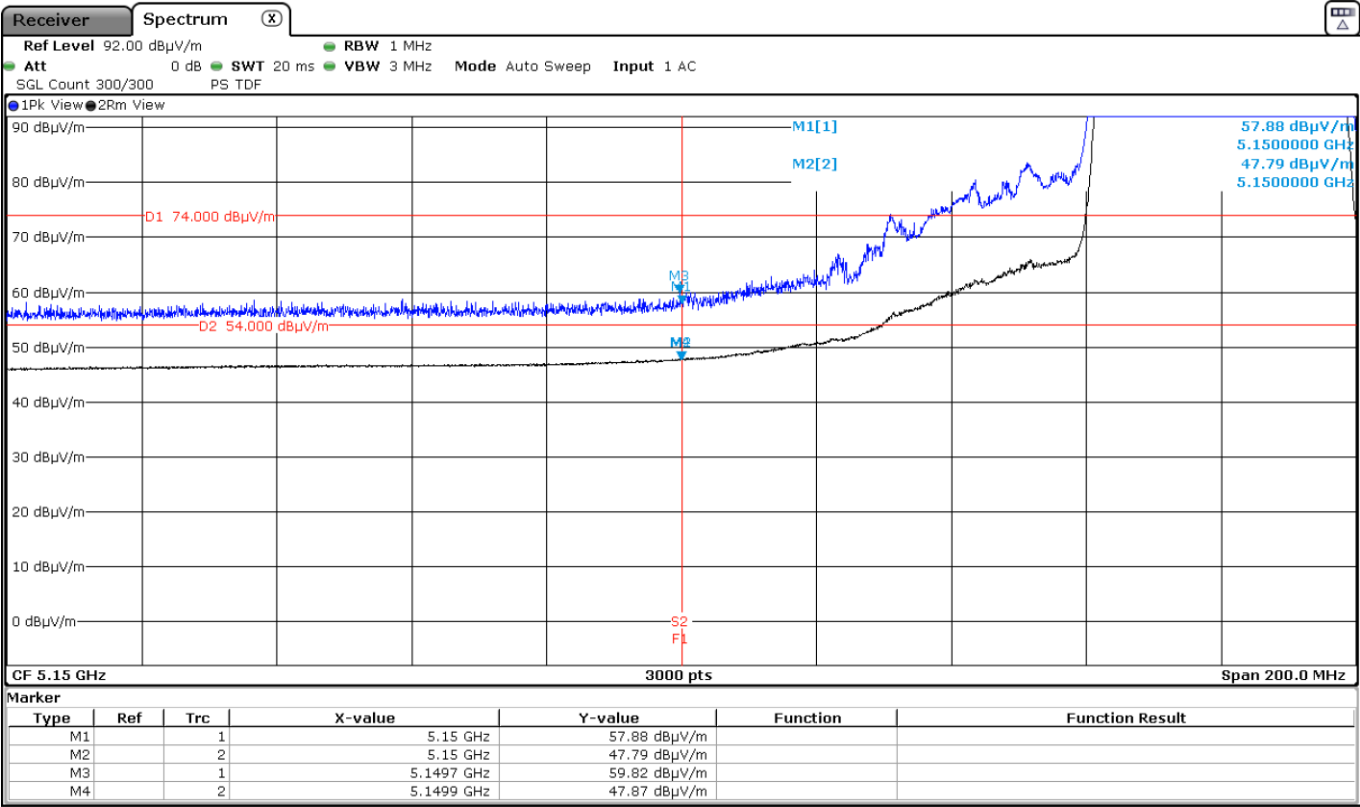
Results: Average / Channel 46

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Horizontal	47.79	0.22	48.01	54	5.99	<± 3.05	PASS
5149.900	Horizontal	47.87	0.22	48.09	54	5.91	<± 3.05	PASS
5350	Horizontal	46.51	0.22	46.73	54	7.27	<± 3.05	PASS
5487.412	Horizontal	47.51	0.22	47.73	54	6.27	<± 3.05	PASS

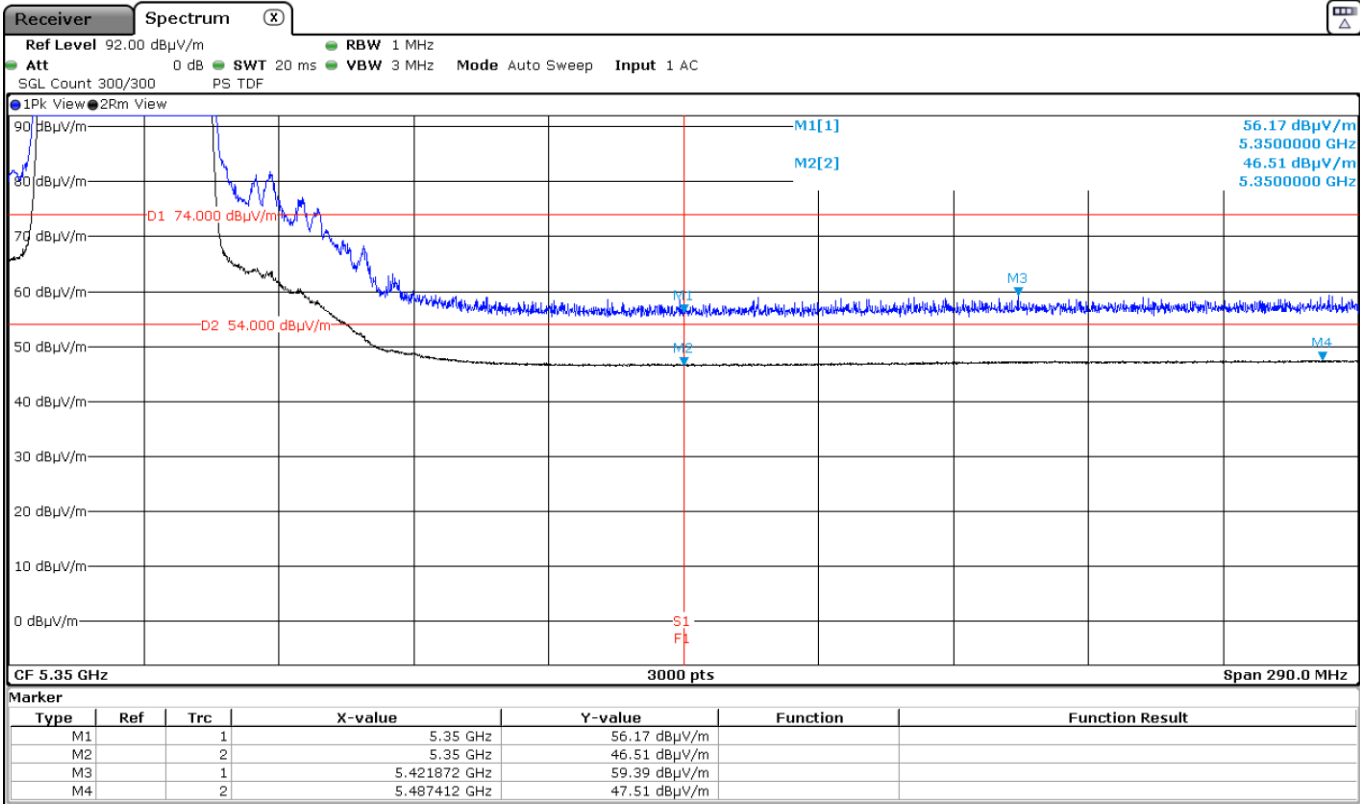
4500 MHz to 5150 MHz Lower Band Edge Channel 38



4500 MHz to 5150 MHz Lower Band Edge Channel 48



5350 MHz to 5460 MHz Upper Band Edge Channel 48



Results for Mode: 802.11n HT40 – TxBF - 40 MHz – MIMO - Core 0+ Core 1+ Core 2

Results: Peak / Channel 38

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Horizontal	55.44	74	18.56	<± 3.05	PASS
5134.700	Horizontal	59.10	74	14.9	<± 3.05	PASS

Results: Average / Channel 38

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Horizontal	46.63	0.13	46.76	54	7.24	<± 3.05	PASS
5149.940	Horizontal	46.69	0.13	46.82	54	7.18	<± 3.05	PASS

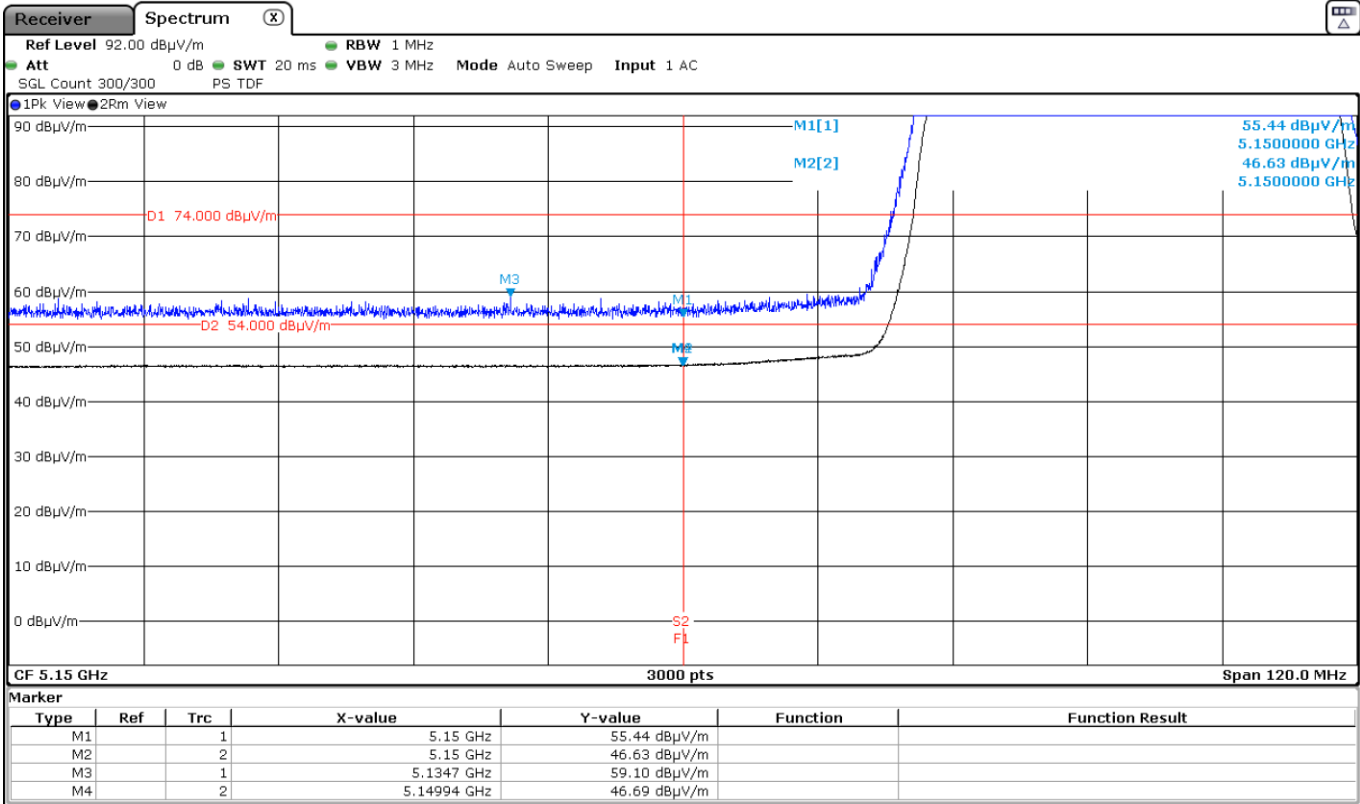
Results: Peak / Channel 46

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	56.67	74	17.33	<± 3.05	PASS
5121.900	Vertical	59.46	74	14.54	<± 3.05	PASS
5350	Vertical	57.76	74	16.24	<± 3.05	PASS
538.012	Vertical	59.05	74	14.95	<± 3.05	PASS

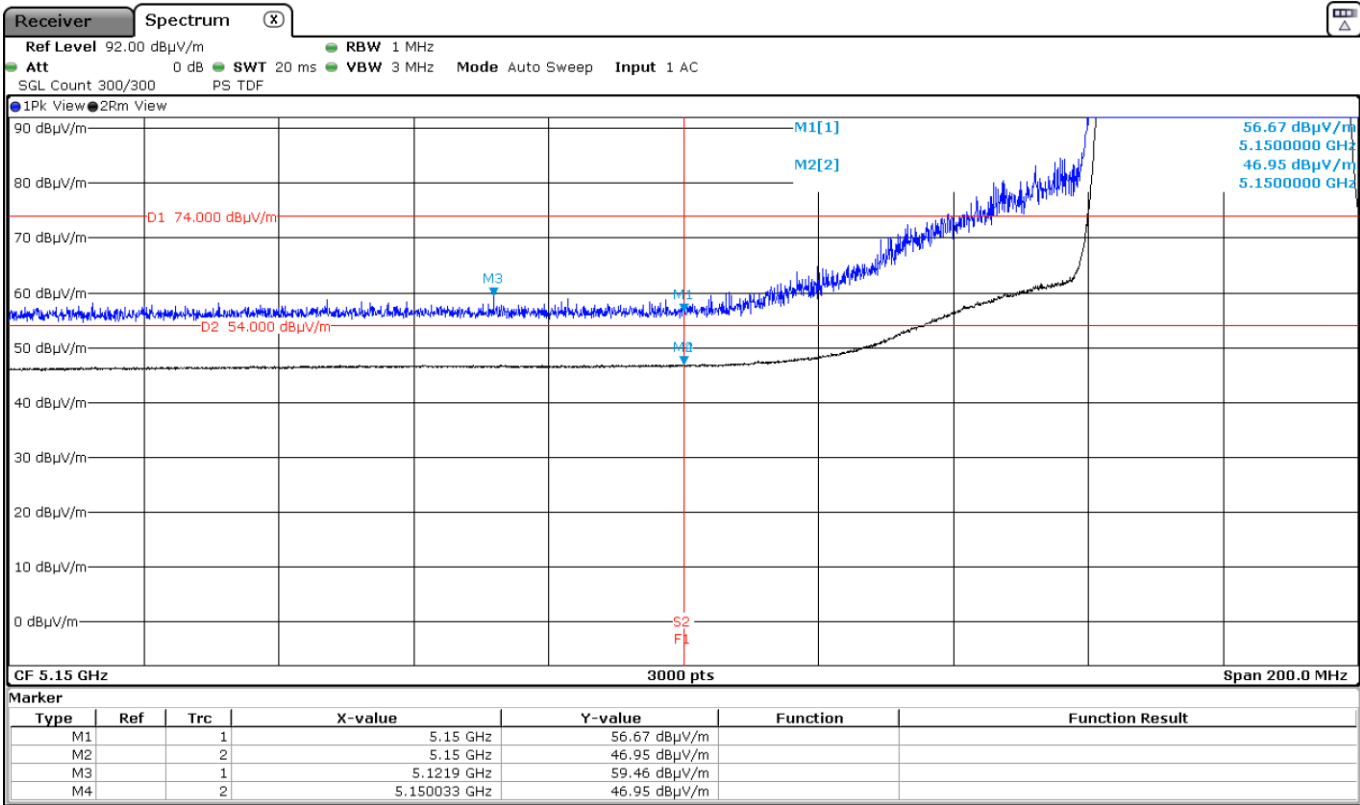
Results: Average / Channel 46

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	46.95	0.13	47.08	54	6.92	<± 3.05	PASS
5150.033	Vertical	46.95	0.13	47.08	54	6.92	<± 3.05	PASS
5350	Vertical	46.61	0.13	46.74	54	7.26	<± 3.05	PASS
5482.482	Vertical	47.13	0.13	47.26	54	6.74	<± 3.05	PASS

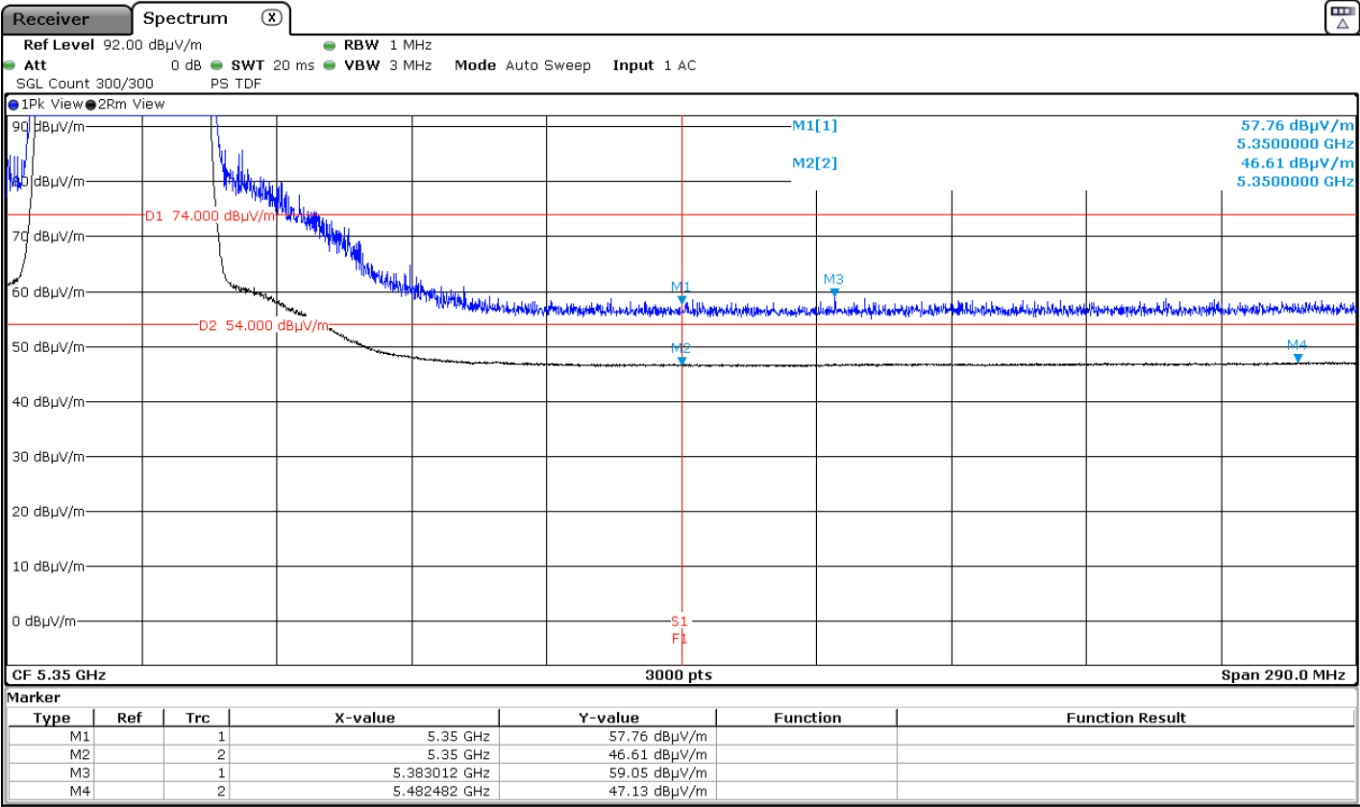
4500 MHz to 5150 MHz Lower Band Edge Channel 38



4500 MHz to 5150 MHz Lower Band Edge Channel 48



5350 MHz to 5460 MHz Upper Band Edge Channel 48



Results for Mode: 802.11ac VHT80 - 80 MHz - SISO - Core 2

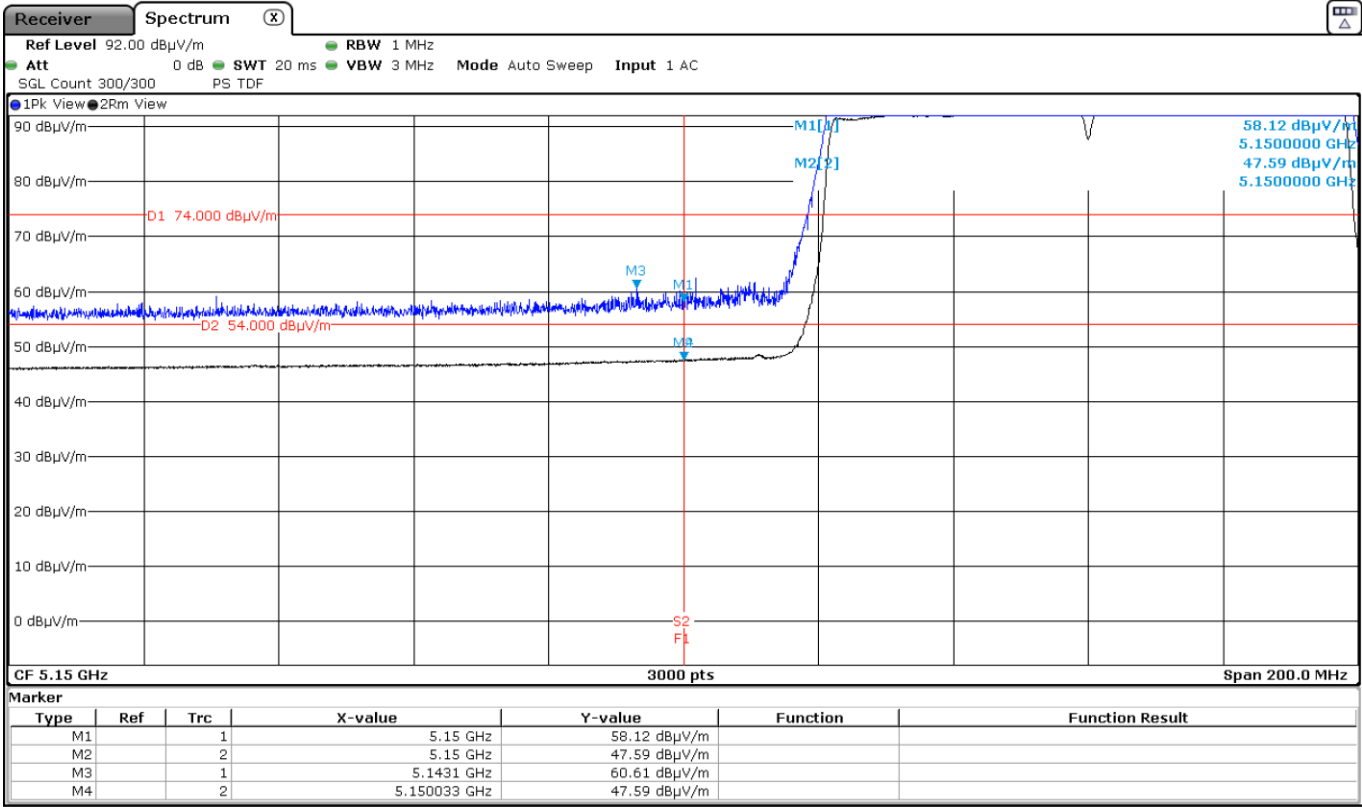
Results: Peak / Channel 42

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	58.12	74	15.88	<± 3.05	PASS
5143.100	Vertical	60.61	74	13.39	<± 3.05	PASS
5350	Vertical	56.76	74	17.24	<± 3.05	PASS
5471.020	Vertical	59.57	74	14.43	<± 3.05	PASS

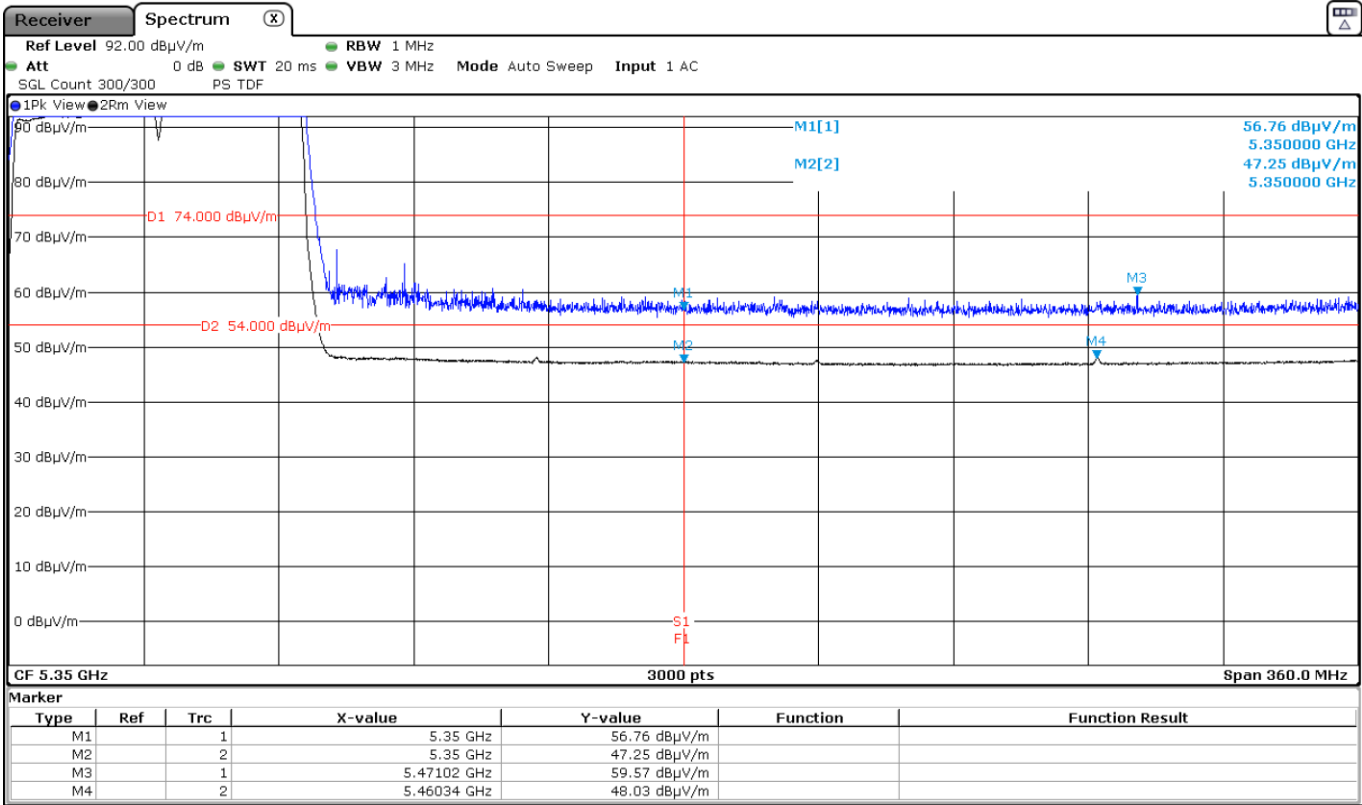
Results: Average / Channel 42

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	47.59	0.15	47.72	54	6.28	<± 3.05	PASS
5150.033	Vertical	47.59	0.15	47.72	54	6.28	<± 3.05	PASS
5350	Vertical	47.25	0.15	47.38	54	6.62	<± 3.05	PASS
5460.340	Vertical	48.03	0.15	48.16	54	5.84	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 42



5350 MHz to 5460 MHz Upper Band Edge Channel 42



Results for Mode: 802.11ac VHT80 – CDD - 80 MHz – MIMO - Core 1+Core 2

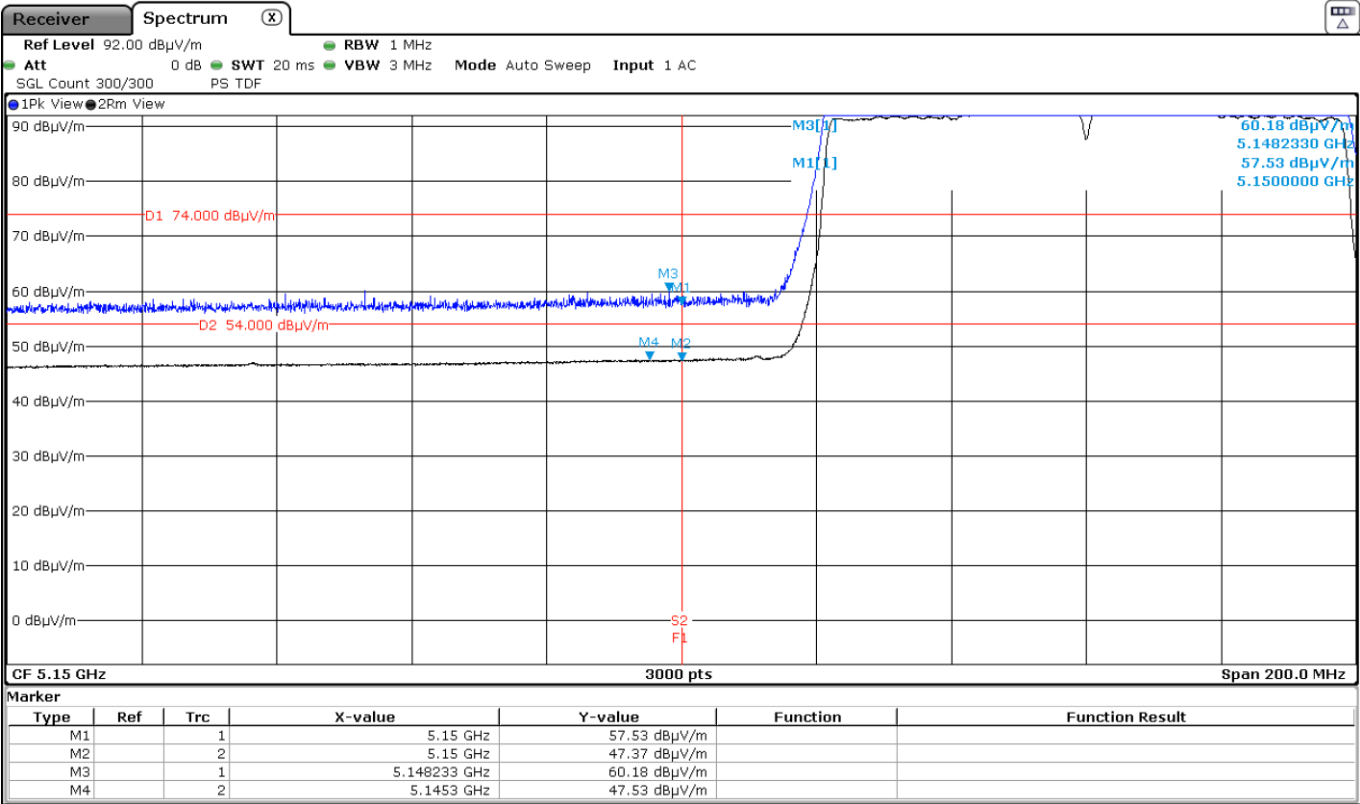
Results: Peak / Channel 42

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	57.53	74	16.47	<± 3.05	PASS
5148.233	Vertical	60.18	74	13.82	<± 3.05	PASS
5350	Vertical	57.08	74	16.92	<± 3.05	PASS
5527.780	Vertical	59.40	74	14.60	<± 3.05	PASS

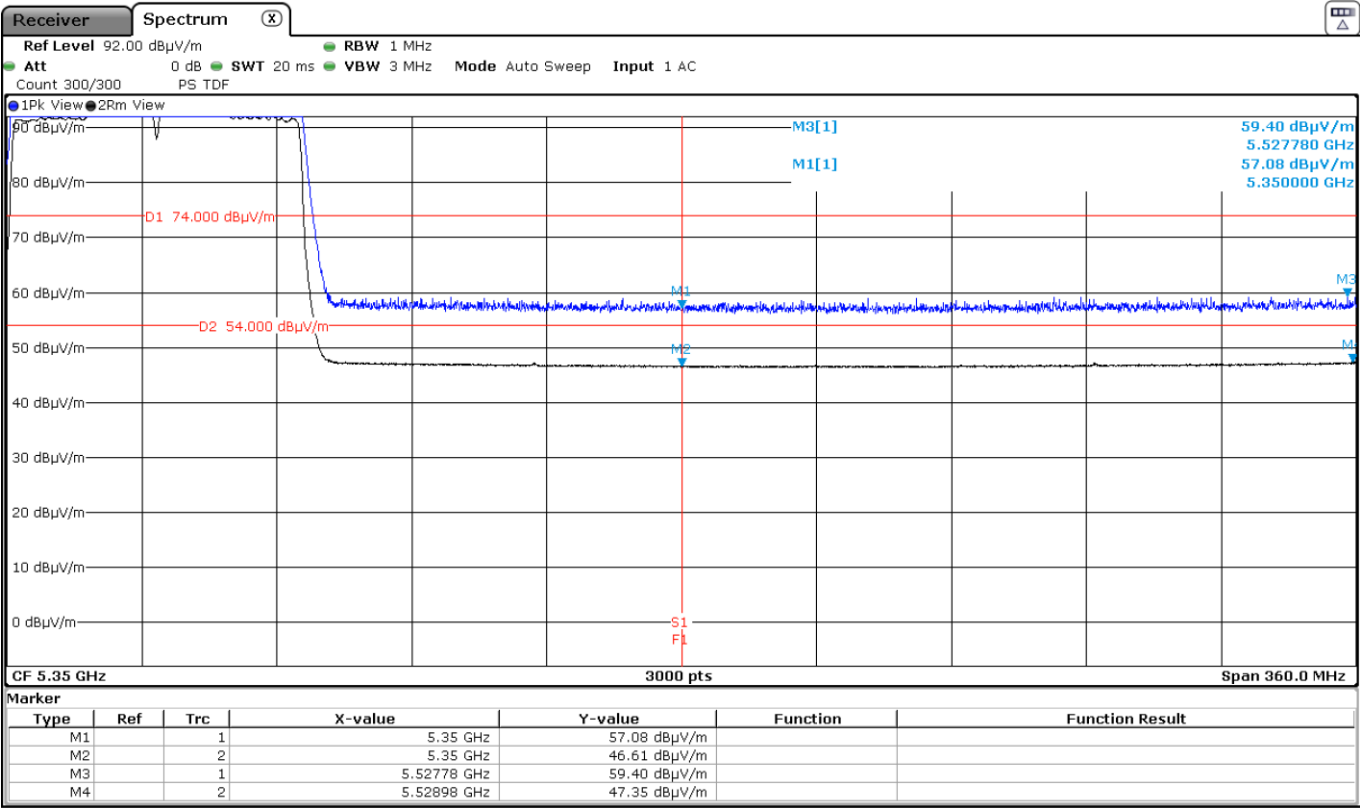
Results: Average / Channel 42

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	47.37	0.16	47.53	54	6.47	<± 3.05	PASS
5145.300	Vertical	47.53	0.16	47.69	54	6.31	<± 3.05	PASS
5350	Vertical	46.61	0.16	46.77	54	7.23	<± 3.05	PASS
5528.980	Vertical	47.35	0.16	47.51	54	6.49	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 42



5350 MHz to 5460 MHz Upper Band Edge Channel 42



Results for Mode: 802.11ac VHT80 – SDM - 80 MHz - MIMO - Core 1+Core 2

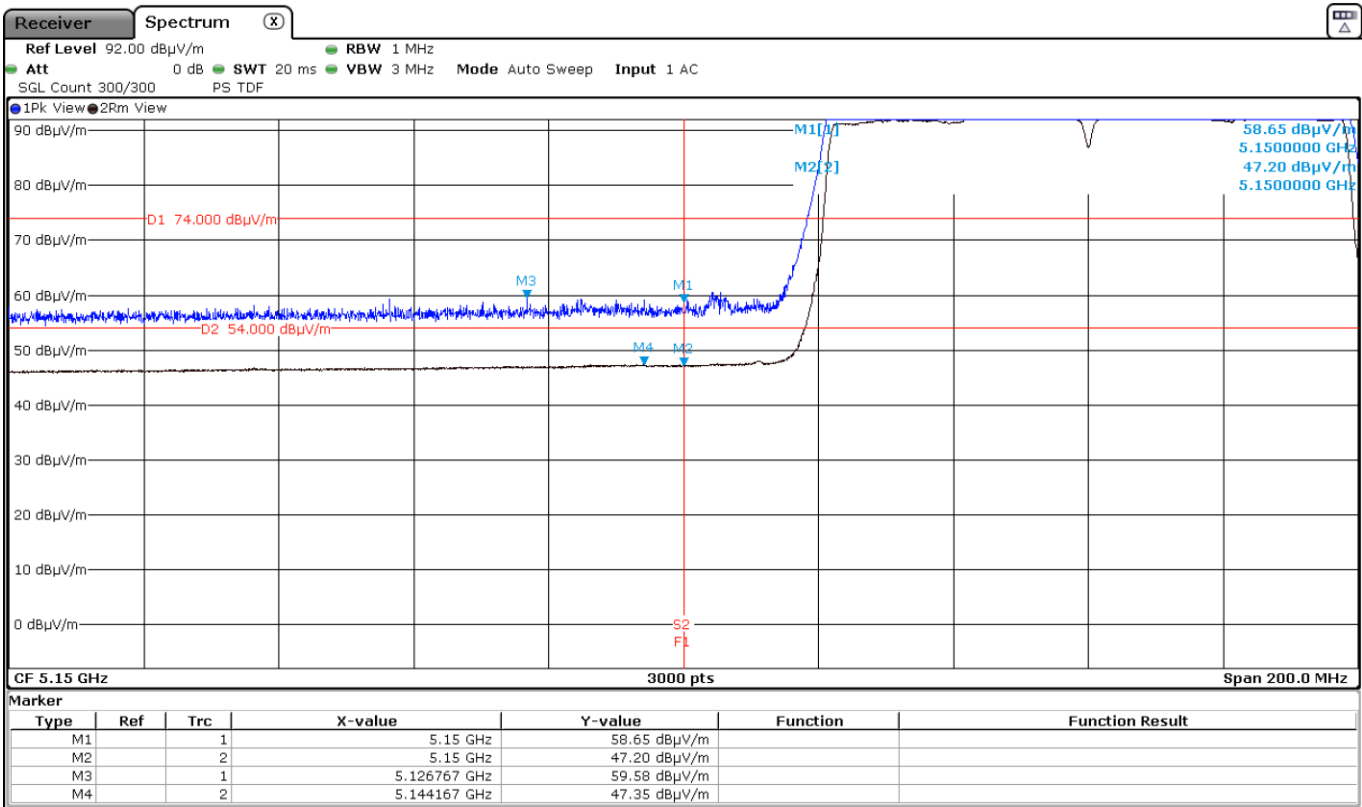
Results: Peak / Channel 42

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	58.65	74	15.35	<± 3.05	PASS
5126.767	Vertical	59.58	74	14.42	<± 3.05	PASS
5350	Vertical	56.10	74	17.9	<± 3.05	PASS
5525.740	Vertical	59.68	74	14.32	<± 3.05	PASS

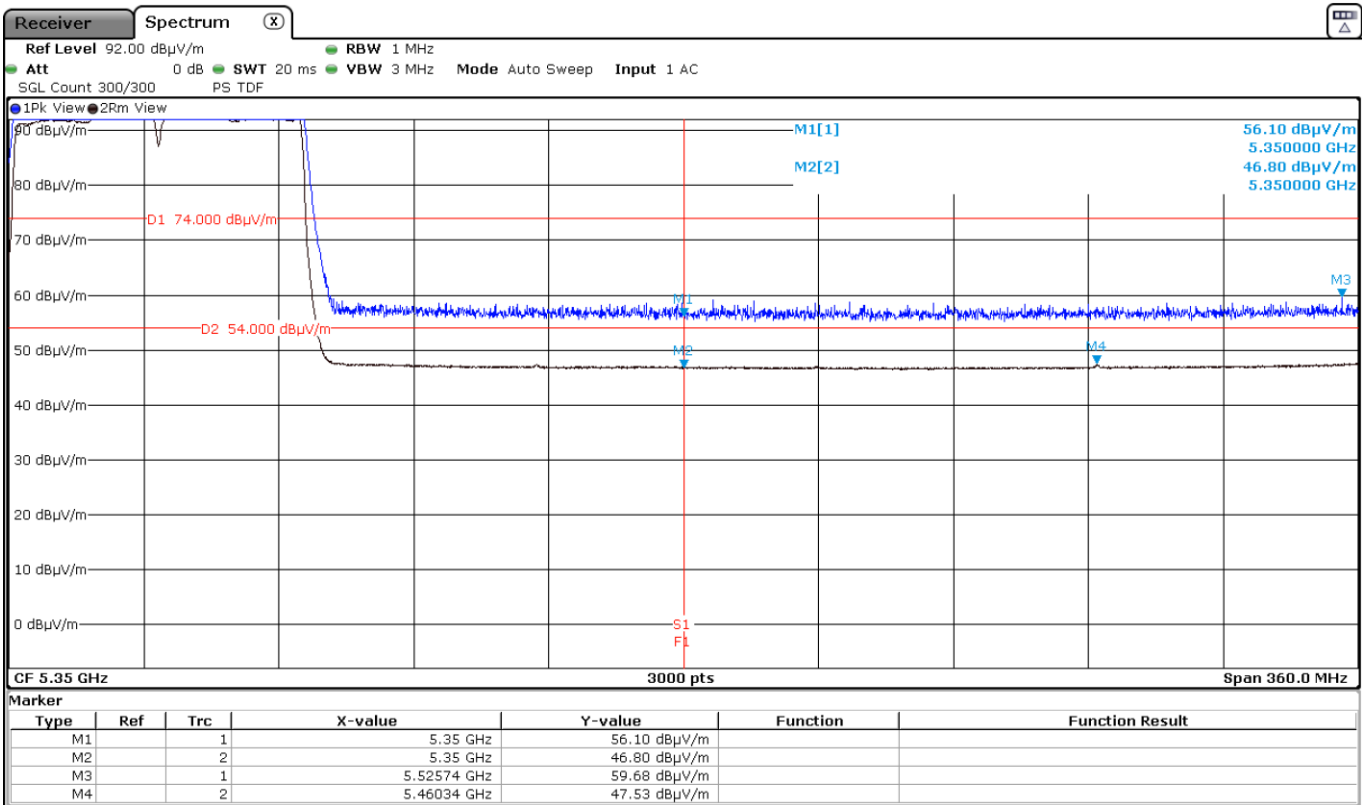
Results: Average / Channel 42

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	47.20	0.29	47.49	54	6.51	<± 3.05	PASS
5144.167	Vertical	47.35	0.29	47.64	54	6.36	<± 3.05	PASS
5350	Vertical	46.80	0.29	47.09	54	6.91	<± 3.05	PASS
5460.340	Vertical	47.53	0.29	47.82	54	6.18	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 42



5350 MHz to 5460 MHz Upper Band Edge Channel 42



Results for Mode: 802.11ac VHT80 – TxBF - 80 MHz – MIMO - Core 1+Core 2

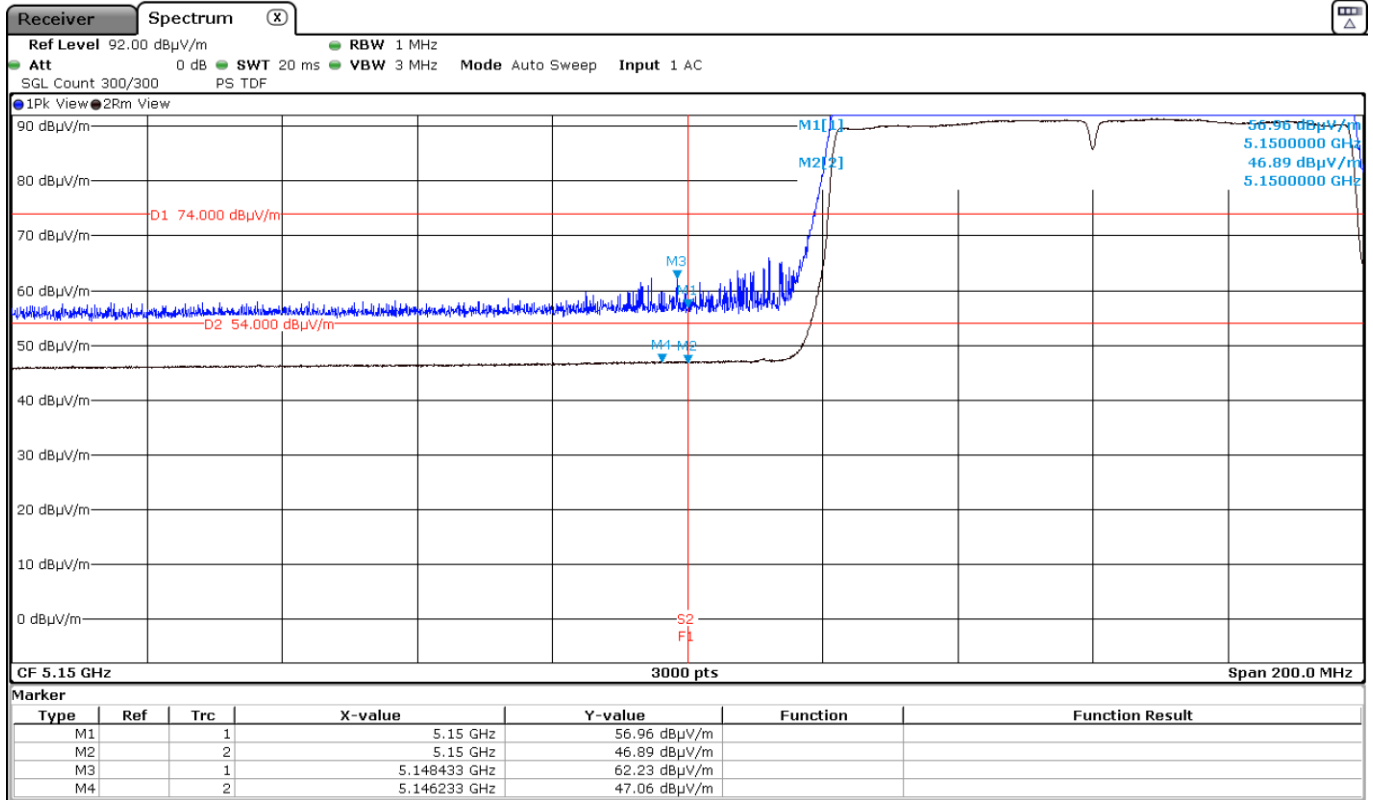
Results: Peak / Channel 42

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	56.96	74	17.04	<± 3.05	PASS
5148.433	Vertical	62.23	74	11.77	<± 3.05	PASS
5350	Vertical	55.89	74	18.11	<± 3.05	PASS
5525.260	Vertical	58.61	74	15.39	<± 3.05	PASS

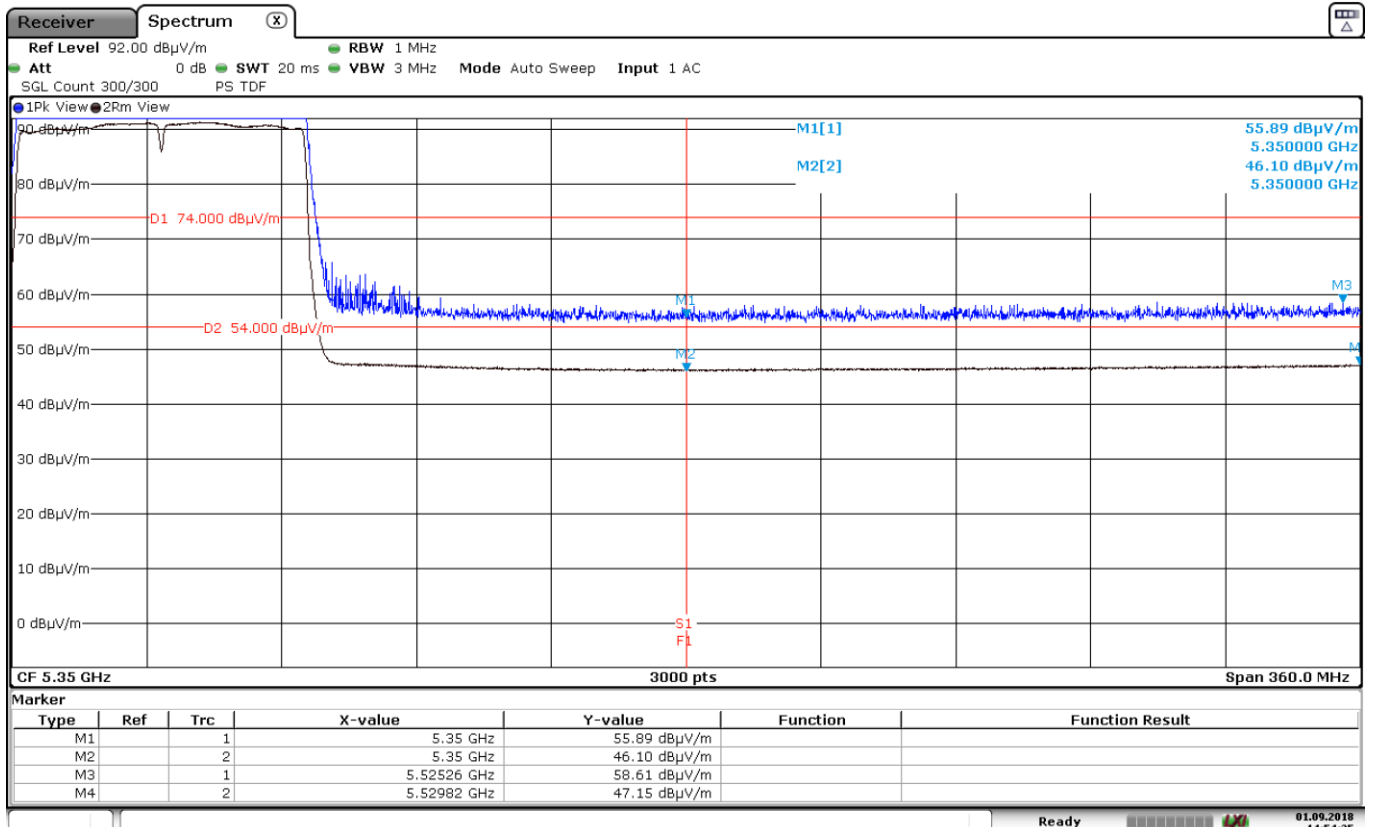
Results: Average / Channel 42

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	46.99	0.11	47.10	54	6.90	<± 3.05	PASS
5146.233	Vertical	47.06	0.11	47.17	54	6.83	<± 3.05	PASS
5350	Vertical	46.10	0.11	46.21	54	7.79	<± 3.05	PASS
5529.820	Vertical	47.15	0.11	47.26	54	6.74	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 42



5350 MHz to 5460 MHz Upper Band Edge Channel 42



Date: 1.SEP.2018 14:54:35

Ready 01.09.2018 14:54:35

Results for Mode: 802.11ac VHT80 – CDD - 80 MHz – MIMO - Core 0+Core 1+Core 2

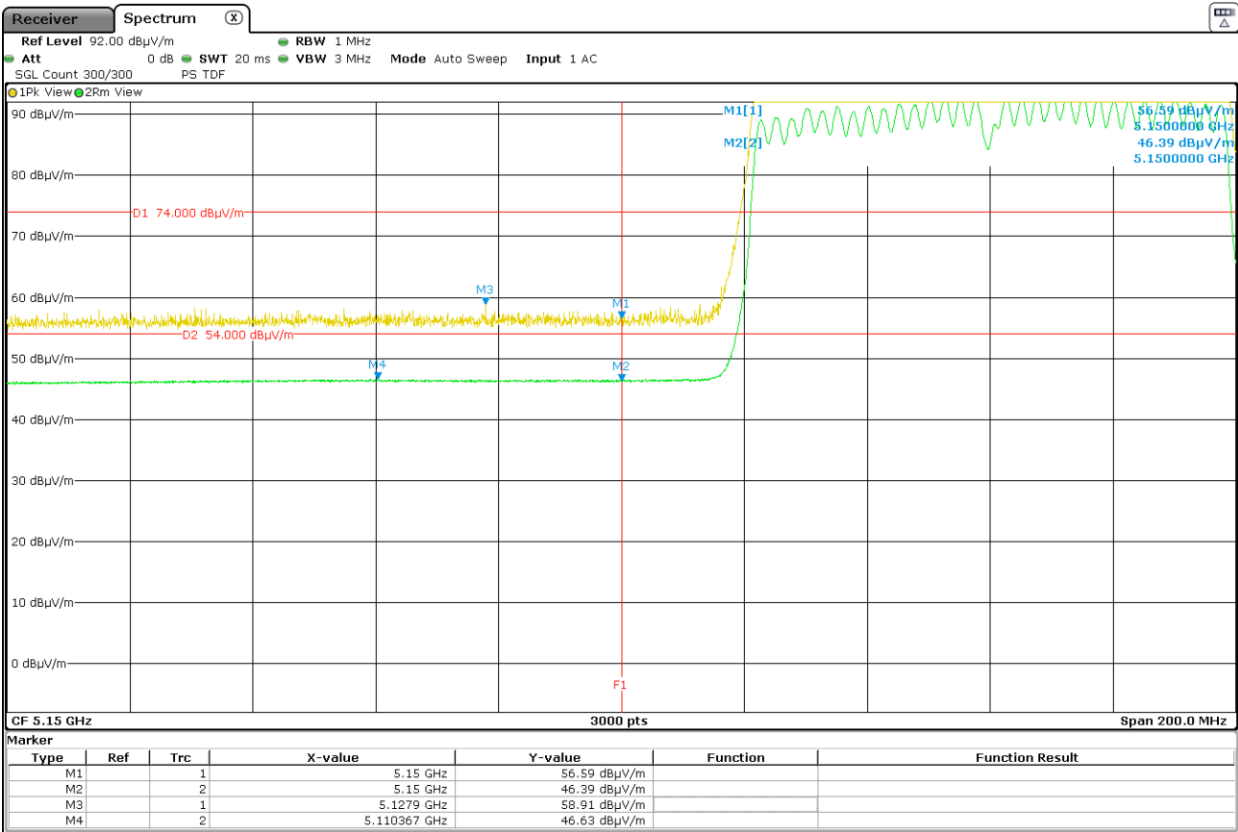
Results: Peak / Channel 42

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Horizontal	56.59	74	17.41	<± 3.05	PASS
5127.900	Horizontal	58.91	74	15.09	<± 3.05	PASS
5350	Vertical	56.57	74	17.43	<± 3.05	PASS
5436.820	Vertical	59.83	74	14.17	<± 3.05	PASS

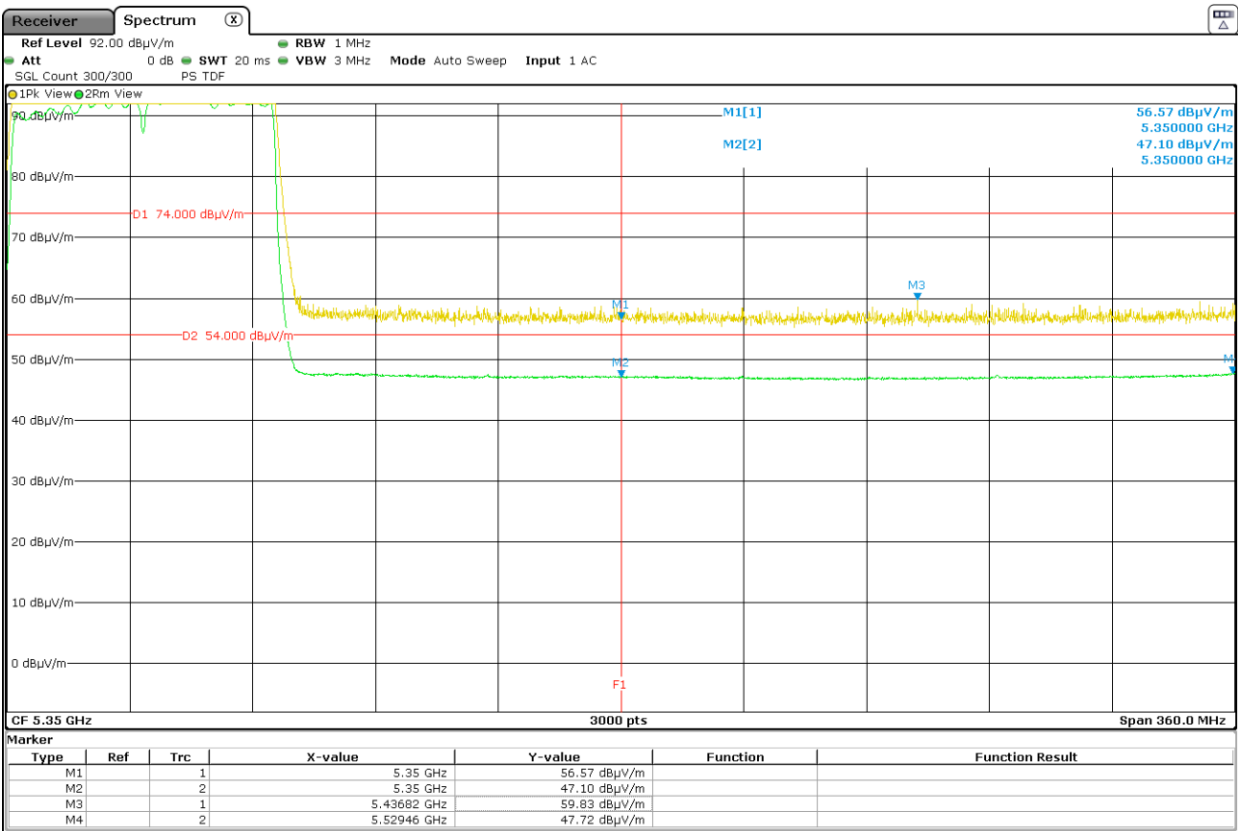
Results: Average / Channel 42

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Horizontal	46.39	0.18	46.5	54	7.50	<± 3.05	PASS
5110.367	Horizontal	46.63	0.18	46.74	54	7.26	<± 3.05	PASS
5350	Vertical	47.10	0.18	47.21	54	6.79	<± 3.05	PASS
5529.460	Vertical	47.72	0.18	47.83	54	6.17	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 42



5350 MHz to 5460 MHz Upper Band Edge Channel 42



Results for Mode: 802.11ac VHT80 – SDM - 80 MHz – MIMO - Core 0+Core 1+Core 2

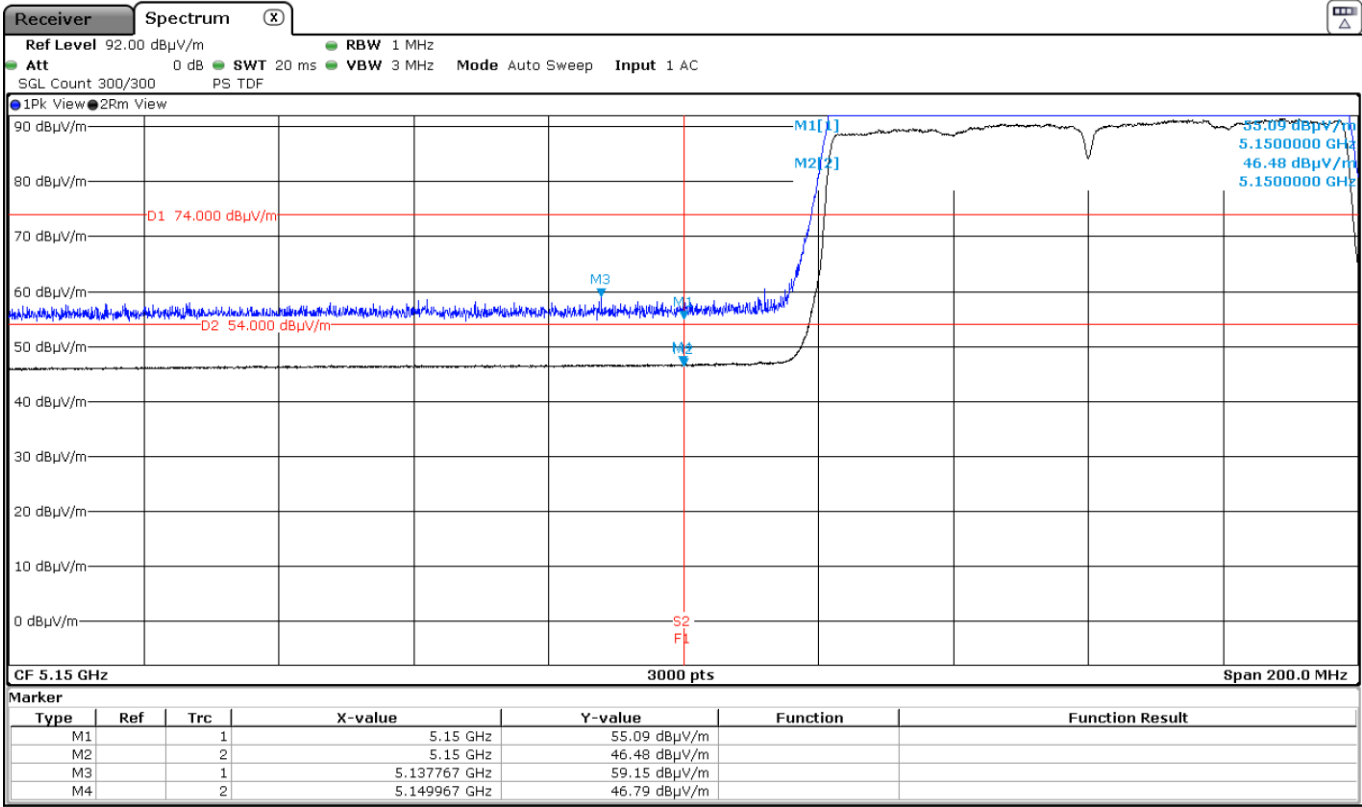
Results: Peak / Channel 42

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	55.09	74	18.91	<± 3.05	PASS
5137.767	Vertical	59.15	74	14.85	<± 3.05	PASS
5350	Vertical	55.89	74	18.11	<± 3.05	PASS
5511.820	Vertical	58.98	74	15.02	<± 3.05	PASS

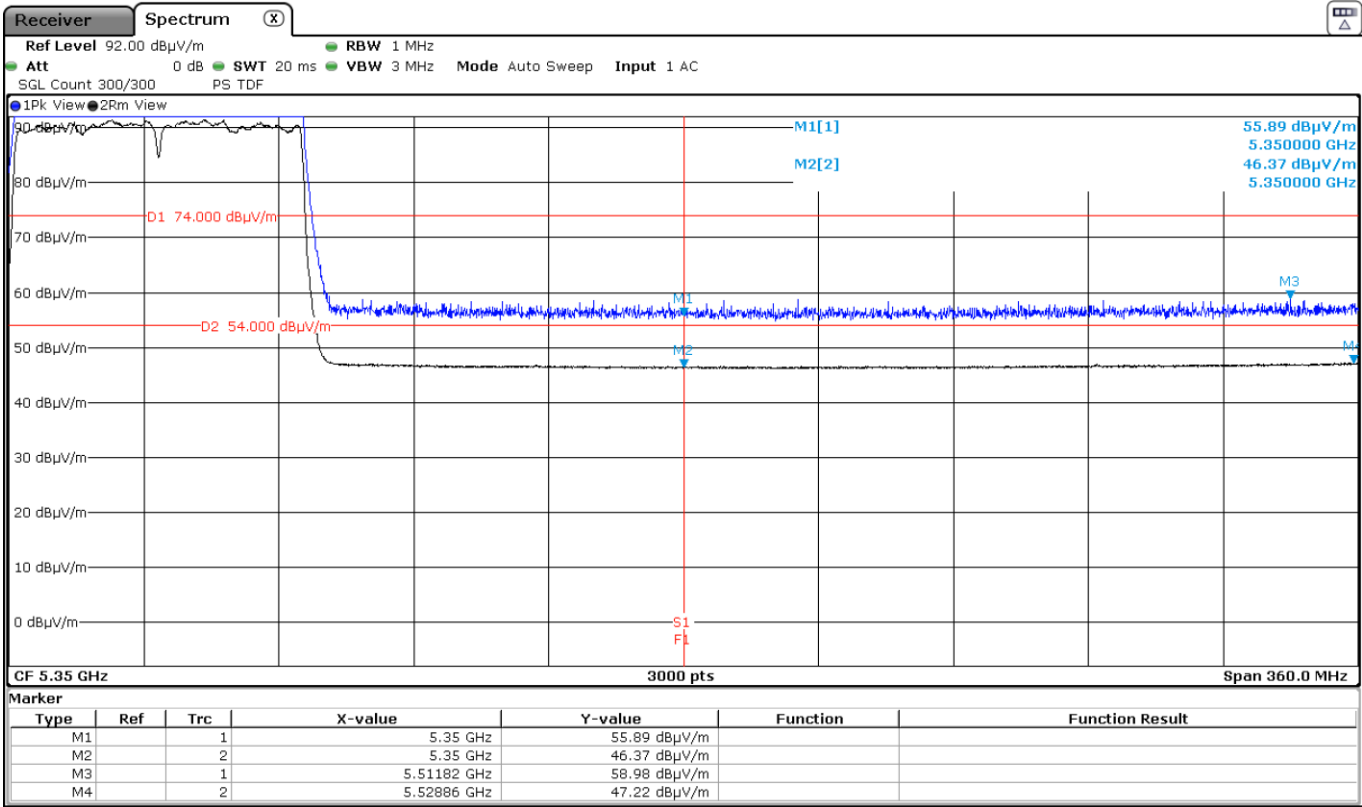
Results: Average / Channel 42

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	46.48	0.37	46.85	54	7.15	<± 3.05	PASS
5149.967	Vertical	46.79	0.37	47.16	54	6.84	<± 3.05	PASS
5350	Vertical	46.37	0.37	46.74	54	7.26	<± 3.05	PASS
5528.860	Vertical	47.22	0.37	47.59	54	6.41	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 42



5350 MHz to 5460 MHz Upper Band Edge Channel 42



Results for Mode: 802.11ac VHT80 – TxBF - 80 MHz – MIMO - Core 0+Core 1+Core 2

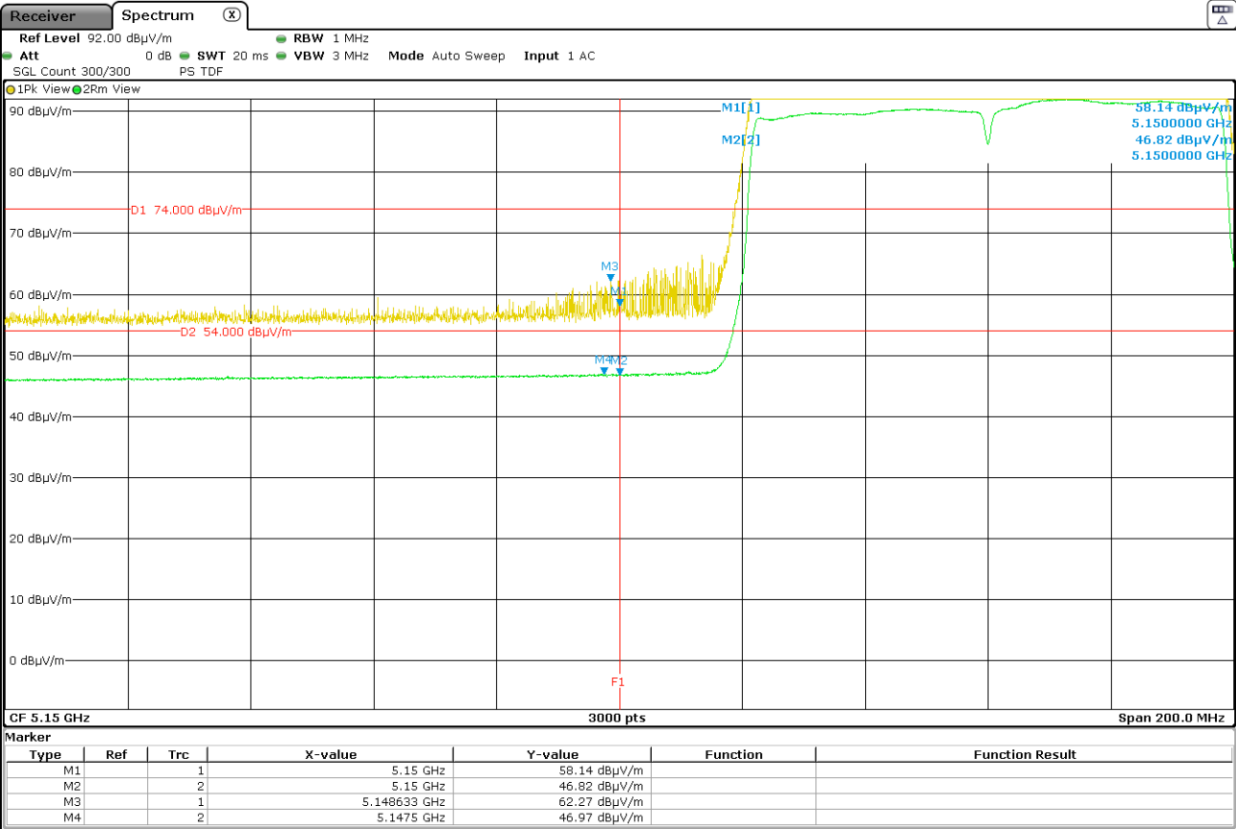
Results: Peak / Channel 42

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	58.14	74	15.86	<± 3.05	PASS
5148.633	Vertical	62.27	74	11.73	<± 3.05	PASS
5350	Vertical	55.90	74	18.1	<± 3.05	PASS
5375.380	Vertical	59.15	74	14.85	<± 3.05	PASS

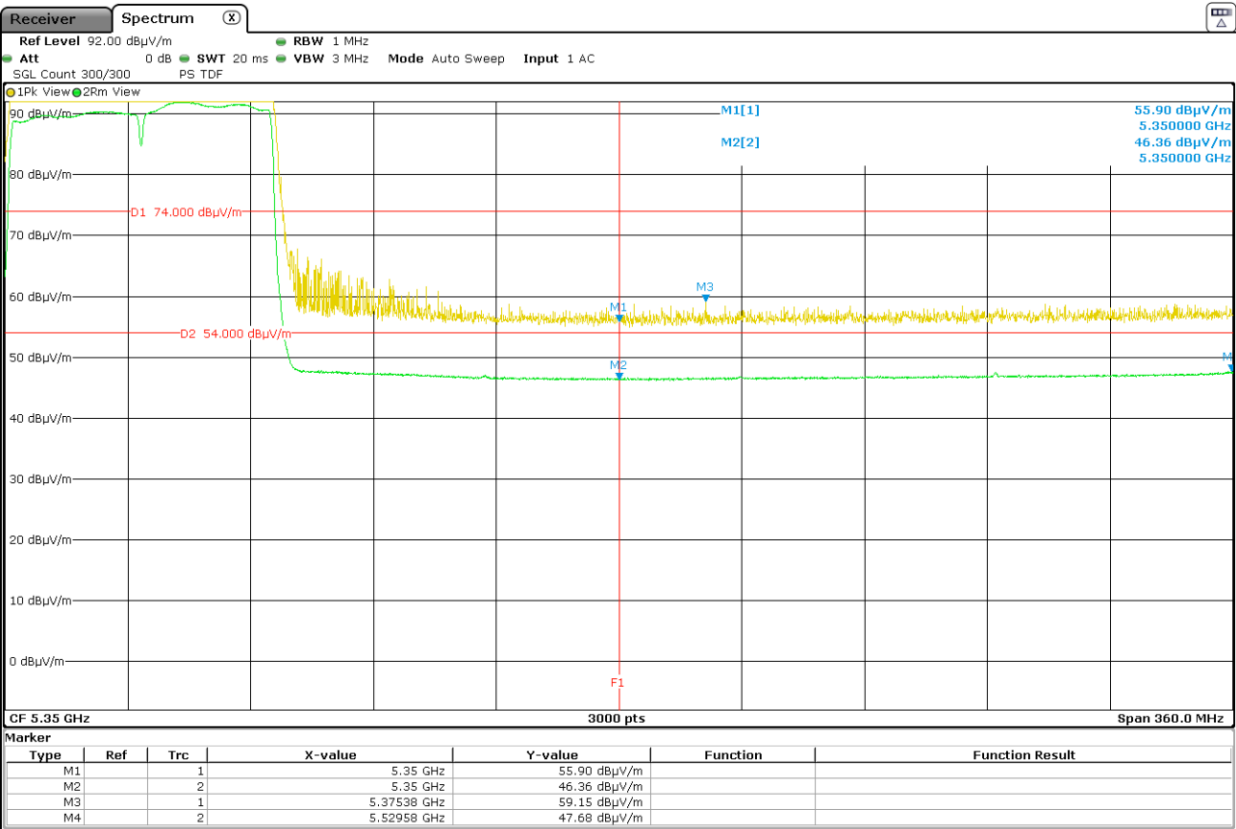
Results: Average / Channel 42

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	46.82	0.12	46.94	54	7.06	<± 3.05	PASS
5147.500	Vertical	46.97	0.12	47.09	54	6.91	<± 3.05	PASS
5350	Vertical	46.36	0.12	46.48	54	7.52	<± 3.05	PASS
5529.580	Vertical	47.68	0.12	47.8	54	6.20	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 42



5350 MHz to 5460 MHz Upper Band Edge Channel 42



Appendix C: Test result for 5.25GHz – 5.35GHz.

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TEST CONDITIONS

Power supply (V):

Vnominal = 120 Vac

Type of power supply = AC voltage main supply.

Type of antenna = Internal antenna.

Declared Gain for antenna (maximum) at each port/core:

$$G_{CORE0} = 3.48 \text{ dBi}$$

$$G_{CORE1} = 2.55 \text{ dBi}$$

$$G_{CORE2} = 3.91 \text{ dBi}$$

Directional Antenna Gain Calculations for 2Tx CDD MIMO / Output Power Measurements:

- For 2Tx CDD MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii), directional gain was calculated as:

$N_{ANT} = 2$, G_{ANT} was set equal to the gain of the antenna having the highest gain.

Directional gain = $G_{ANT} + \text{Array Gain} = 3.91 \text{ dBi} + 0 \text{ dB} = 3.91 \text{ dBi}$.

Directional Antenna Gain Calculations for 3Tx CDD MIMO / Output Power Measurements:

- For 3Tx CDD MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii), directional gain was calculated as:

$N_{ANT} = 3$, G_{ANT} was set equal to the gain of the antenna having the highest gain.

Directional gain = $G_{ANT} + \text{Array Gain} = 3.91 \text{ dBi} + 0 \text{ dB} = 3.91 \text{ dBi}$.

Directional Antenna Gain Calculations for 2Tx CDD MIMO / PSD Measurements:

- For 2Tx CDD MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii), directional gain was calculated as:

$N_{SS} = 1$, $N_{ANT} = 2$, $G_{CORE0} = 3.48 \text{ dBi}$, $G_{CORE2} = 3.91 \text{ dBi}$

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^2 g_{j,k} \right)^2}{2} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2})^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{3.48}{10}} + 10^{\frac{3.91}{10}} \right)^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{3.48}{10}} + 10^{\frac{3.91}{10}} \right)^2}{2} \right] = 6.71 \text{ dBi} \end{aligned}$$

Directional Antenna Gain Calculations for 3Tx CDD MIMO / PSD Measurements:

- For 3Tx CDD MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii), directional gain was calculated as:

NSS= 1, N_{ANT} = 3, G_{CORE0} = 3.48 dBi, G_{CORE1} = 2.55 dBi, G_{CORE2} = 3.91 dBi

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^3 g_{j,k} \right)^2}{3} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2} + g_{1,3})^2}{3} \right] = 10 \log \left[\frac{\left(10^{\frac{3.48}{10}} + 10^{\frac{2.55}{10}} + 10^{\frac{3.91}{10}} \right)^2}{3} \right] = 10 \log \left[\frac{\left(10^{\frac{3.48}{10}} + 10^{\frac{2.55}{10}} + 10^{\frac{3.91}{10}} \right)^2}{3} \right] = 8.10 \text{ dBi} \end{aligned}$$

Directional Antenna Gain Calculations for 2Tx SDM MIMO Measurements:

- For 2Tx SDM MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(ii), directional gain was calculated as:

NSS= 1, N_{ANT} = 2, G_{CORE0} = 3.48 dBi, G_{CORE2} = 3.91 dBi

$$\text{Directional Gain} = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{3.48}{10}} + 10^{\frac{3.91}{10}}}{2} \right] = 3.70 \text{ dBi}$$

Directional Antenna Gain Calculations for 3Tx SDM MIMO Measurements:

- For 3Tx SDM MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(ii), directional gain was calculated as:

NSS= 1, N_{ANT} = 3, G_{CORE0} = 3.48 dBi, G_{CORE1} = 2.55 dBi, G_{CORE2} = 3.91 dBi

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + 10^{\frac{G_3}{10}}}{N_{ANT}} \right] \\ &= 10 \log \left[\frac{10^{\frac{3.48}{10}} + 10^{\frac{2.55}{10}} + 10^{\frac{3.91}{10}}}{3} \right] = 3.35 \text{ dBi} \end{aligned}$$

Directional Antenna Gain Calculations for TxBF MIMO Measurements:

- For 2Tx TxBF MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(i), directional gain was calculated as:

$$N_{ANT} = 2, G_{CORE0} = 3.48 \text{ dBi}, G_{CORE2} = 3.91 \text{ dBi}$$

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^2 g_{j,k} \right)^2}{2} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2})^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{3.48}{10}} + 10^{\frac{3.91}{10}} \right)^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{3.48}{10}} + 10^{\frac{3.91}{10}} \right)^2}{2} \right] = 6.71 \text{ dBi} \end{aligned}$$

For 3Tx TxBF MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(i), directional gain was calculated as:

$$N_{ANT} = 3, G_{CORE0} = 3.48 \text{ dBi}, G_{CORE1} = 2.55 \text{ dBi}, G_{CORE2} = 3.91 \text{ dBi}$$

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^3 g_{j,k} \right)^2}{3} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2} + g_{1,3})^2}{3} \right] = 10 \log \left[\frac{\left(10^{\frac{3.48}{10}} + 10^{\frac{2.55}{10}} + 10^{\frac{3.91}{10}} \right)^2}{3} \right] = 10 \log \left[\frac{\left(10^{\frac{3.48}{10}} + 10^{\frac{2.55}{10}} + 10^{\frac{3.91}{10}} \right)^2}{3} \right] = 8.10 \text{ dBi} \end{aligned}$$

Technology Tested:	WLAN (IEEE 802.11 a,n,ac) / U-NII	
Modes:	802.11a: 6, 9, 12, 18, 24, 36, 48 & 54 Mbps (SISO, or MIMO with CDD)	
	802.11n HT20: MCS0 to MCS23 (1,2 or 3 spatial stream with either SISO or 2/3 chain MIMO CDD/SDM)	
	802.11n HT40: MCS0 to MCS23 (1,2 or 3 spatial stream with either SISO or 2/3 chain MIMO CDD/SDM)	
	802.11ac VHT20: MCS0 to MCS9 (1,2 or 3 spatial stream) (SISO, or MIMO with CDD/SDM with or without TxBF)	
	802.11ac VHT40: MCS0 to MCS9 (1,2 or 3 spatial stream) (SISO, or MIMO with CDD/SDM with or without TxBF)	
	802.11ac VHT80: MCS0 to MCS9 (1,2 or 3 spatial stream) (SISO, or MIMO with CDD/SDM with or without TxBF)	
Setting of cores / ports:	0,1,2, 0+1, 0+2, 1+2, 0+1+2	
Beamforming:	Yes	
Frequency Range:	5250 MHz to 5350 MHz	
Channel Spacing:	20 MHz	
Transmit Channels	Channel	Channel Frequency (MHz)
	Lowest: 52	5260
	Middle: 56	5280
	Highest: 64	5320
Channel Spacing:	40 MHz	
Transmit Channels	Channel	Channel Frequency (MHz)
	Lowest: 54	5270
	Highest: 62	5310
Channel Spacing:	80 MHz	
Transmit Channels	Middle: 58	5290

The test set-up was made in accordance to the general provisions of FCC Unlicensed National Information Infrastructure (U-NII) Devices 789033 D02 General U-NII Test Procedures New Rules v02r01 dated Dec 14, 2017.

The EUT was tested in the following operating mode(s):

- Non-TxBF modes: Continuously transmitting with a modulated carrier at maximum power in all required channels using the supported data rates/modulations types.
- TxBF modes: Transmitting a modulated carrier with maximum possible duty cycle at maximum power in all required channels using the supported data rates/modulations types.

The field strength at the band edges was evaluated for each mode for the channel under test.

During transmitter test the EUT was being controlled by the SW tool to operate in a continuous transmit mode on the test channel as required and in each of the different modulation modes.

For non-Tx BF modes, the EUT was configured in test mode using a software application. The application was used to enable a continuous transmission and to select the test channels as required. The client supplied scripts to configure the EUT. The customer supplied a document containing the setup instructions.

For Tx BF modes, the EUT was communicating via a RF link (radiated or conducted) with an equivalent device. The EUT ran iPerf bandwidth testing application in client mode to produce maximum throughput. The client supplied scripts to configure the EUT. The customer supplied a document containing the setup instructions.

The following modes and data rates were selected based on preliminary testing that identified those corresponding to the worst cases:

- 802.11a: 6 Mbit/s / SISO on Core 2
- 802.11n HT20: MCS0 / SISO on Core 2
- 802.11n HT40: MCS0 / SISO on Core 2
- 802.11ac VHT80: MCS0x1 / SISO on Core 2
- 802.11n HT20: MCS0 / MIMO / 2Tx CDD on Core 0 & Core 2
- 802.11n HT40: MCS0 / MIMO / 2Tx CDD on Core 0 & Core 2
- 802.11ac VHT80: MCS0x1 / MIMO / 2Tx CDD on Core 0 & Core 2
- 802.11n HT20: MCS8 / MIMO / 2Tx SDM on Core 0 & Core 2
- 802.11n HT40: MCS8 / MIMO / 2Tx SDM on Core 0 & Core 2
- 802.11ac VHT80: MCS0x2 / MIMO / 2Tx SDM on Core 0 & Core 2
- 802.11ac VHT20: MCS0x1 / MIMO / 2Tx Tx BF on Core 0 & Core 2
- 802.11ac VHT40: MCS0x1 / MIMO / 2Tx Tx BF on Core 0 & Core 2
- 802.11ac VHT80: MCS0x1 / MIMO / 2Tx Tx BF on Core 0 & Core 2

- 802.11n HT20: MCS0 / MIMO / 3Tx CDD on Core 0 & Core 1 & Core 2
- 802.11n HT40: MCS0 / MIMO / 3Tx CDD on Core 0 & Core 1 & Core 2
- 802.11ac VHT80: MCS0x1 / MIMO / 3Tx CDD on Core 0 & Core 1 & Core 2

- 802.11n HT20: MCS16 / MIMO / 3Tx SDM on Core 0 & Core 1 & Core 2
- 802.11n HT40: MCS16 / MIMO / 3Tx SDM on Core 0 & Core 1 & Core 2
- 802.11ac VHT80: MCS0x3 / MIMO / 3Tx SDM on Core 0 & Core 1 & Core 2
- 802.11ac VHT20: MCS0x1 / MIMO / 3Tx Tx BF on Core 0 & Core 1 & Core 2
- 802.11ac VHT40: MCS0x1 / MIMO / 3Tx Tx BF on Core 0 & Core 1 & Core 2
- 802.11ac VHT80: MCS0x1 / MIMO / 3Tx Tx BF on Core 0 & Core 1 & Core 2

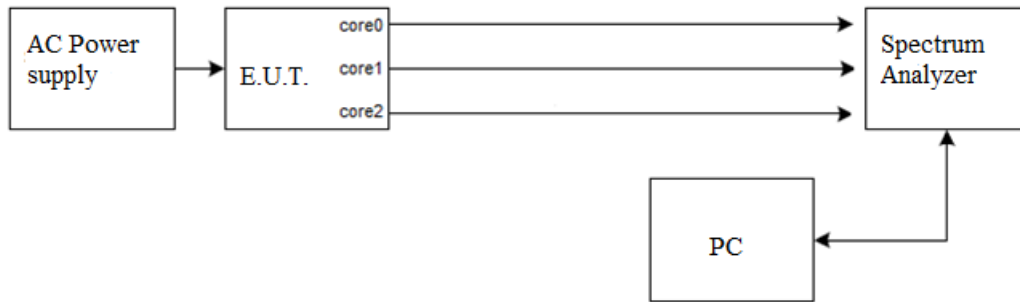
The EUT has three separate antennas which correspond to three separate antenna ports. Core 0 and Core 1 and Core 2 correspond to antenna 0, antenna 1 and antenna 2 respectively.

The client supplied U.FL RF cables with the EUT in order to perform conducted measurements. The measured additional path loss was included in any path loss calculations.

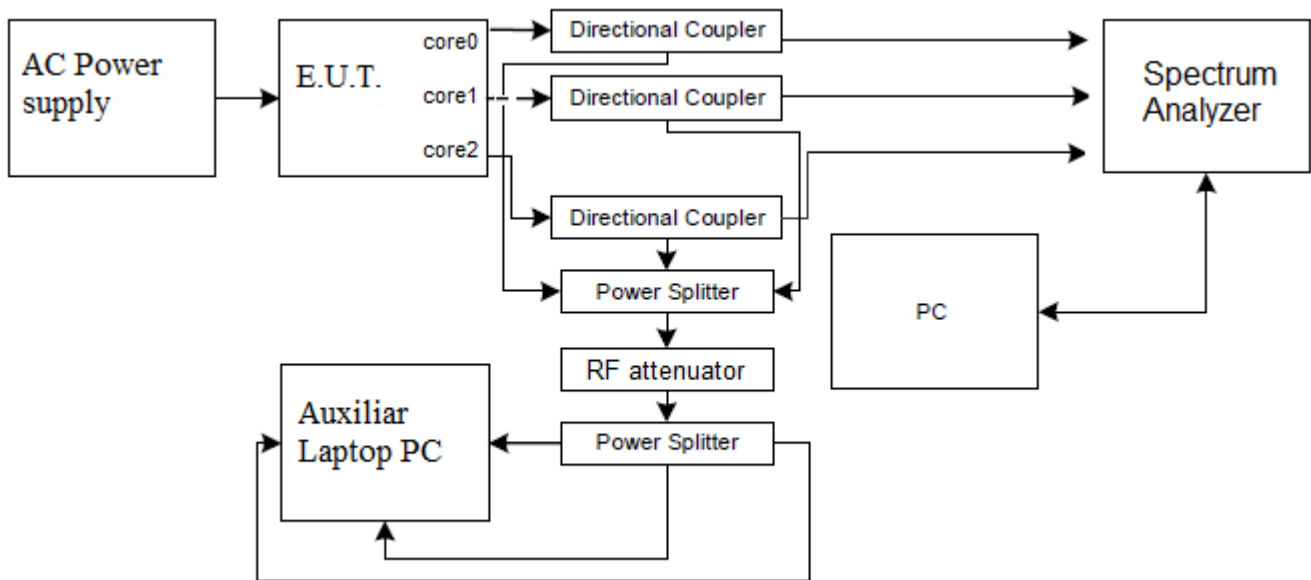
CONDUCTED MEASUREMENTS

The equipment under test was set up in a shielded room and connected to the spectrum analyzer using a low loss RF cable. The reading in the spectrum analyzer is corrected taking into account the internal and external RF cable loss.

For non-TxBF modes:



For TxBF modes:



The AC supply voltage is applied using an external power supply.

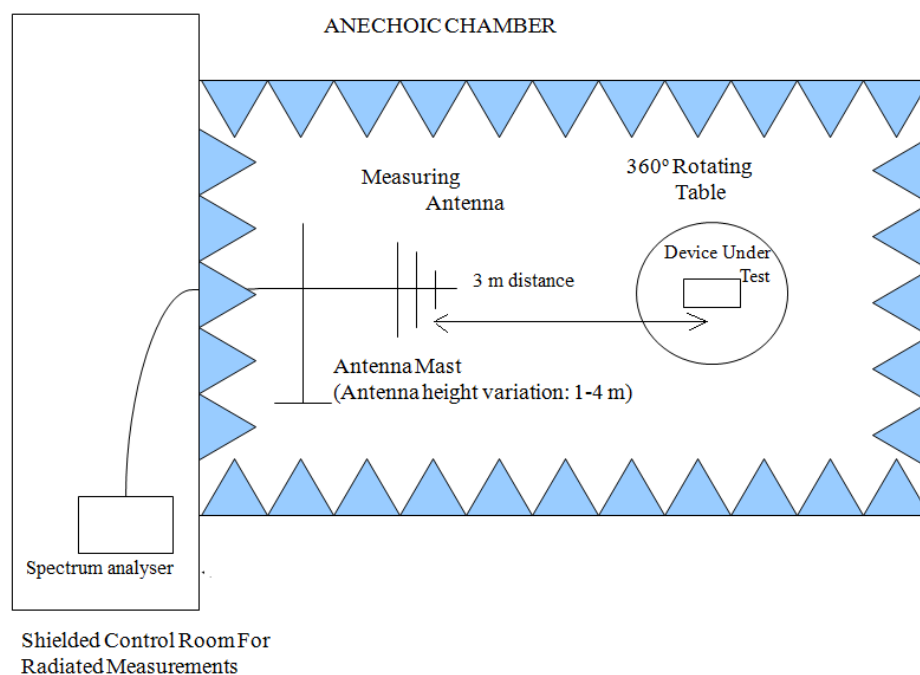
RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m. The EUT was placed at a height of 80 cm above the reference ground plane in the center of the chamber turntable to perform the measurements below 1GHz and The EUT was placed at a height of 1.5 meters above the test chamber floor in the center of the chamber turntable to perform the measurements above 1GHz. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

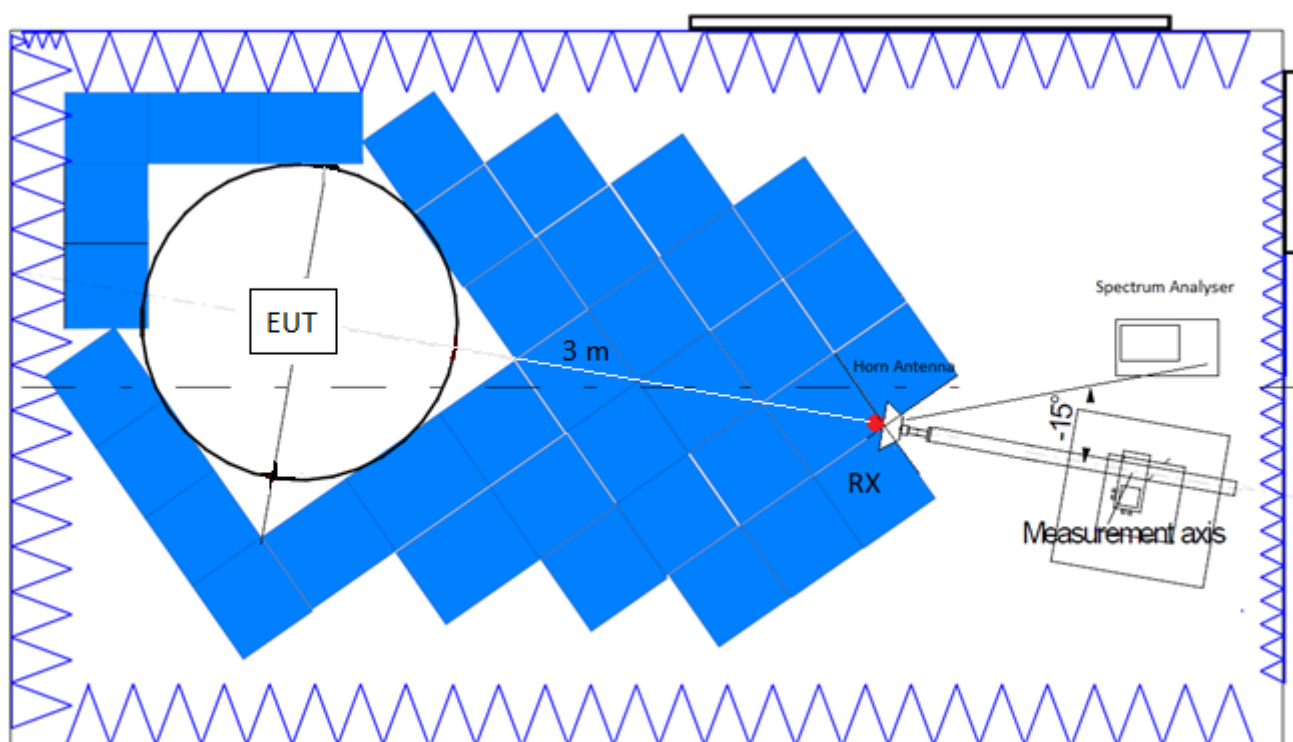
Measurements were made in both horizontal and vertical planes of polarization.

The final measured value, for the given emission, in the tables below incorporates the calibrated antenna factor and cable loss.

Radiated measurements setup $f < 1$ GHz



Radiated measurements setup $f > 1$ GHz



FCC Section 15.407 Subclause (a)(2). Transmitter Maximum Conducted Output Power / RSS-247 Clause 6.2.2.1(a). Transmitter Maximum Equivalent Isotropically Radiated Power

SPECIFICATION

FCC 15.407: For the 5.25-5.35 GHz band, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-247: The maximum conducted output power shall not exceed 250 mW (24 dBm) or $11 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

The maximum e.i.r.p. shall not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

RESULTS:

The maximum conducted output power was measured using the channel power integration method according to point E) 2) b) (Method SA-1) of 789033 D02 General UNII Test Procedures New Rules v02r01 when the duty cycle is >98% and the channel power integration method according to point E) 2) d) (Method SA-2) of 789033 D02 General UNII Test Procedures New Rules v02r01 when the duty cycle is <98%.

For data rates where the EUT was transmitting at <98% duty cycle, the duty calculated in Appendix A was added to the measured power in order to calculate the total average power during the actual transmission time.

For all SISO and MIMO CDD/SDM modes of operation, the antenna gain is less than 6dBi.

For 2TX TxBF modes of operation presented in this section of the test report, the directional antenna gain of 6.71 dBi. In accordance with Part 15.407(a)(2), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 24dBm has been reduced by 0.71 to 23.29 dBm.

For 3TX TxBF modes of operation presented in this section of the test report, the directional antenna gain of 8.10 dBi. In accordance with Part 15.407(a)(2) the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 24dBm has been reduced by 2.10 to 21.90 dBm.

In the measure-and-sum approach for MIMO mode, the conducted emission level (*e.g.*, transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units (mW—not dBm).

The e.i.r.p. levels are calculated by adding the corresponding antenna gain (dBi).

FCC and Canada power setting

Mode : 802.11a - 20MHz – SISO – CORE 2

Declared antenna gain: 3.91 dBi

	channel 52 5260 MHz	Channel56 5280 MHz	channel 64 5320 MHz
Max. conducted power (dBm)	20.18	20.14	16.39
Conducted Power Limit (dBm)	24		
Margin (dB)	3.82	3.86	7.61
Maximum EIRP power (dBm)	24.09	24.05	20.30
EIRP power Limit (dBm)	30		
Margin (dB)	5.91	5.95	9.70
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT20 - 20MHz – SISO – CORE 2

Declared antenna gain: 3.91 dBi

	channel 52 5260 MHz	Channel56 5280 MHz	channel 64 5320 MHz
Max. conducted power (dBm)	19.70	20.40	16.28
Conducted Power Limit (dBm)	24		
Margin (dB)	4.30	3.60	7.72
Maximum EIRP power (dBm)	23.61	24.31	20.19
EIRP power Limit (dBm)	30		
Margin (dB)	6.39	5.69	9.81
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 - 40MHz – SISO – CORE 2

Declared antenna gain: 3.91 dBi

	channel 54 5270 MHz	channel 62 5310 MHz
Max. conducted power (dBm)	19.38	11.66
Duty Cycle Correction Factor (dB)	0.10	0.10
Max. conducted power corrected (dBm)	19.48	11.76
Conducted Power Limit (dBm)	24	
Margin (dB)	4.52	12.24
Maximum EIRP power (dBm)	23.39	15.67
EIRP power Limit (dBm)	30	
Margin (dB)	6.61	14.33
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11ac VHT80 - 80MHz – SISO – CORE 2

Declared antenna gain: 3.91 dBi

	channel 58 5290 MHz
Max. conducted power (dBm)	10.75
Duty Cycle Correction Factor (dB)	0.15
Max. conducted power corrected (dBm)	10.90
Conducted Power Limit (dBm)	24
Margin (dB)	13.10
Maximum EIRP power (dBm)	14.81
EIRP power Limit (dBm)	30
Margin (dB)	15.19
Measurement uncertainty (dB)	<±1.20

Mode : 802.11n HT20 – CDD – 20MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 3.91 dBi

	channel 52 5260 MHz		channel 56 5280 MHz		channel 64 5320 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	16.62	16.95	16.82	16.95	16.33	16.20
Combined Conducted Power (dBm)	19.80		19.90		19.28	
Conducted Power Limit (dBm)	24					
Margin (dB)	4.20		4.10		4.72	
Maximum EIRP power (dBm)	23.71		23.81		23.19	
EIRP power Limit (dBm)	30					
Margin (dB)	6.29		6.19		6.81	
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT40 – CDD – 40MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 3.91 dBi

	channel 54 5270 MHz		channel 62 5310 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	17.99	17.93	10.80	10.89
Duty Cycle Correction Factor (dB)	0.09	0.09	0.09	0.09
Max. conducted power corrected (dBm)	18.08	18.02	10.89	10.98
Combined Conducted Power (dBm)	21.06		13.94	
Conducted Power Limit (dBm)	24			
Margin (dB)	2.94		10.06	
Maximum EIRP power (dBm)	24.97		17.85	
EIRP power Limit (dBm)	30			
Margin (dB)	5.03		12.15	
Measurement uncertainty (dB)	<±1.20			

Mode : 802.11ac VHT80 – CDD – 80MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 3.91 dBi

	channel 58 5290 MHz	
	CORE 0	CORE 2
Max. conducted power (dBm)	9.11	9.29
Duty Cycle Correction Factor (dB)	0.16	0.16
Max. conducted power corrected (dBm)	9.27	9.45
Combined Conducted Power (dBm)	12.37	
Conducted Power Limit (dBm)	24	
Margin (dB)	11.63	
Maximum EIRP power (dBm)	16.28	
EIRP power Limit (dBm)	30	
Margin (dB)	13.72	
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11n HT20 – SDM – 20MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 3.70 dBi

	channel 52 5260 MHz		channel 56 5280 MHz		channel 64 5320 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	16.83	16.87	17.65	17.67	16.22	16.18
Combined Conducted Power (dBm)	19.86		20.67		19.21	
Conducted Power Limit (dBm)	24					
Margin (dB)	4.14		3.33		4.79	
Maximum EIRP power (dBm)	23.56		24.37		22.91	
EIRP power Limit (dBm)	30					
Margin (dB)	6.44		5.63		7.09	
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT40 – SDM – 40MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 3.70 dBi

	channel 54 5270 MHz		channel 62 5310 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	17.72	17.86	10.70	10.65
Duty Cycle Correction Factor (dB)	0.14	0.14	0.22	0.22
Max. conducted power corrected (dBm)	17.86	18	10.84	10.79
Combined Conducted Power (dBm)	20.94		13.83	
Conducted Power Limit (dBm)	24			
Margin (dB)	3.06		10.17	
Maximum EIRP power (dBm)	24.64		17.53	
EIRP power Limit (dBm)	30			
Margin (dB)	5.36		12.47	
Measurement uncertainty (dB)	<±1.20			

Mode : 802.11ac VHT80 – SDM – 80MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 3.70 dBi

	channel 58 5290 MHz	
	CORE 0	CORE 2
Max. conducted power (dBm)	9.14	9.30
Duty Cycle Correction Factor (dB)	0.29	0.29
Max. conducted power corrected (dBm)	9.43	9.59
Combined Conducted Power (dBm)	12.52	
Conducted Power Limit (dBm)	24	
Margin (dB)	11.48	
Maximum EIRP power (dBm)	16.22	
EIRP power Limit (dBm)	30	
Margin (dB)	13.78	
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11n HT20 – TxBF – 20MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 6.71 dBi

	channel 52 5260 MHz		channel 56 5280 MHz		channel 64 5320 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	16.90	16.42	16.86	16.60	16.33	16.20
Duty Cycle Correction Factor (dB)	0.11	0.11	0.11	0.11	0.11	0.11
Max. conducted power corrected (dBm)	17.01	16.53	16.97	16.71	16.44	16.31
Combined Conducted Power (dBm)	19.79		19.85		19.39	
Conducted Power Limit (dBm)	23.29					
Margin (dB)	3.50		3.44		3.91	
Maximum EIRP power (dBm)	26.50		26.56		26.09	
EIRP power Limit (dBm)	30					
Margin (dB)	3.50		3.44		3.91	
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT40 – TxBF – 40MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 6.71 dBi

	channel 54 5270 MHz		channel 62 5310 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	17.63	17.75	9.10	9.35
Duty Cycle Correction Factor (dB)	0.13	0.13	0.13	0.13
Max. conducted power corrected (dBm)	17.76	17.88	9.23	9.48
Combined Conducted Power (dBm)	20.83		12.37	
Conducted Power Limit (dBm)	23.29			
Margin (dB)	2.46		10.93	
Maximum EIRP power (dBm)	27.54		12.37	
EIRP power Limit (dBm)	30			
Margin (dB)	2.46		17.63	
Measurement uncertainty (dB)	<±1.20			

Mode : 802.11ac VHT80 – TxBF – 80MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 6.71 dBi

	channel 58 5290 MHz	
	CORE 0	CORE 2
Max. conducted power (dBm)	8.34	8.18
Duty Cycle Correction Factor (dB)	0.11	0.11
Max. conducted power corrected (dBm)	8.45	8.29
Combined Conducted Power (dBm)	11.38	
Conducted Power Limit (dBm)	23.29	
Margin (dB)	11.91	
Maximum EIRP power (dBm)	18.09	
EIRP power Limit (dBm)	30	
Margin (dB)	11.91	
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11n HT20 – CDD – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 3.91 dBi

	channel 52 5260 MHz			channel 56 5280 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	13.95	13.87	13.92	13.71	13.85	13.90
Combined Conducted Power (dBm)	18.68			18.59		
Conducted Power Limit (dBm)	24					
Margin (dB)	5.32			5.41		
Maximum EIRP power (dBm)	22.59			22.50		
EIRP power Limit (dBm)	30					
Margin (dB)	7.41			7.50		
Measurement uncertainty (dB)	<±1.20					

	channel 62 5320 MHz		
	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	13.94	13.89	13.89
Combined Conducted Power (dBm)	18.68		
Conducted Power Limit (dBm)	24		
Margin (dB)	5.32		
Maximum EIRP power (dBm)	22.59		
EIRP power Limit (dBm)	30		
Margin (dB)	7.41		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 – CDD – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 3.91 dBi

	channel 54 5270 MHz			channel 62 5310 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	16	15.90	15.65	11	10.58	10.50
Combined Conducted Power (dBm)	20.62			15.47		
Conducted Power Limit (dBm)	24					
Margin (dB)	3.38			8.53		
Maximum EIRP power (dBm)	24.53			19.38		
EIRP power Limit (dBm)	30					
Margin (dB)	5.47			10.62		
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11ac VHT80 – CDD – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 3.91 dBi

	channel 58 5290 MHz		
	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	8.87	8.88	8.76
Duty Cycle Correction Factor (dB)	0.18	0.18	0.18
Max. conducted power corrected (dBm)	9.05	9.06	8.94
Combined Conducted Power (dBm)	13.79		
Conducted Power Limit (dBm)	24		
Margin (dB)	10.21		
Maximum EIRP power (dBm)	17.70		
EIRP power Limit (dBm)	30		
Margin (dB)	12.30		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT20 – SDM – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 3.35 dBi

	channel 52 5260 MHz			channel 56 5280 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	15.82	15.97	15.90	15.72	15.91	15.65
Duty Cycle Correction Factor (dB)	0.11	0.11	0.11	0.11	0.11	0.11
Max. conducted power corrected (dBm)	15.93	16.08	16.01	15.83	16.02	15.76
Combined Conducted Power (dBm)	20.78			20.64		
Conducted Power Limit (dBm)	24					
Margin (dB)	3.22			3.36		
Maximum EIRP power (dBm)	24.13			23.99		
EIRP power Limit (dBm)	30					
Margin (dB)	5.87			6.01		
Measurement uncertainty (dB)	<±1.20					

	channel 62 5320 MHz		
	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	15.02	14.95	14.85
Duty Cycle Correction Factor (dB)	0.11	0.11	0.11
Max. conducted power corrected (dBm)	15.13	15.06	14.96
Combined Conducted Power (dBm)	19.82		
Conducted Power Limit (dBm)	24		
Margin (dB)	4.18		
Maximum EIRP power (dBm)	23.17		
EIRP power Limit (dBm)	30		
Margin (dB)	6.83		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 – SDM – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 3.35 dBi

	channel 54 5270 MHz			channel 62 5310 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	16.84	16.43	16.66	10.59	10.68	10.72
Duty Cycle Correction Factor (dB)	0.22	0.22	0.22	0.22	0.22	0.22
Max. conducted power corrected (dBm)	17.06	16.65	16.88	10.81	10.90	10.94
Combined Conducted Power (dBm)	21.64			15.65		
Conducted Power Limit (dBm)	24					
Margin (dB)	2.36			8.35		
Maximum EIRP power (dBm)	24.99			19		
EIRP power Limit (dBm)	30					
Margin (dB)	5.01			11		
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11ac VHT80 – SDM – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 3.35 dBi

	channel 58 5290 MHz		
	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	8.55	8.68	8.63
Duty Cycle Correction Factor (dB)	0.37	0.37	0.37
Max. conducted power corrected (dBm)	8.92	9.05	9
Combined Conducted Power (dBm)	13.76		
Conducted Power Limit (dBm)	24		
Margin (dB)	10.24		
Maximum EIRP power (dBm)	17.11		
EIRP power Limit (dBm)	30		
Margin (dB)	12.89		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT20 – TxBF – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 8.10 dBi

	channel 52 5260 MHz			channel 56 5280 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	13.53	13.70	13.83	13.54	13.84	13.74
Duty Cycle Correction Factor (dB)	0.14	0.14	0.14	0.14	0.14	0.14
Max. conducted power corrected (dBm)	13.67	13.84	13.97	13.68	13.98	13.88
Combined Conducted Power (dBm)	18.59			18.61		
Conducted Power Limit (dBm)	21.90					
Margin (dB)	3.30			3.28		
Maximum EIRP power (dBm)	26.70			26.72		
EIRP power Limit (dBm)	30					
Margin (dB)	3.30			3.28		
Measurement uncertainty (dB)	<±1.20					

	channel 62 5310 MHz		
	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	13.60	13.83	13.84
Duty Cycle Correction Factor (dB)	0.14	0.14	0.14
Max. conducted power corrected (dBm)	13.74	13.97	13.98
Combined Conducted Power (dBm)	18.66		
Conducted Power Limit (dBm)	21.90		
Margin (dB)	3.23		
Maximum EIRP power (dBm)	26.77		
EIRP power Limit (dBm)	30		
Margin (dB)	3.23		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 – TxBF – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 8.10 dBi

	channel 54 5270 MHz			channel 62 5310 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	15.76	15.80	15.82	9.24	9.04	9.17
Duty Cycle Correction Factor (dB)	0.13	0.13	0.13	0.13	0.13	0.13
Max. conducted power corrected (dBm)	15.89	15.93	15.95	9.37	9.17	9.30
Combined Conducted Power (dBm)	20.70			14.05		
Conducted Power Limit (dBm)	21.90					
Margin (dB)	1.20			7.84		
Maximum EIRP power (dBm)	28.80			22.16		
EIRP power Limit (dBm)	30					
Margin (dB)	1.20			7.84		
Measurement uncertainty (dB)	<±1.20					

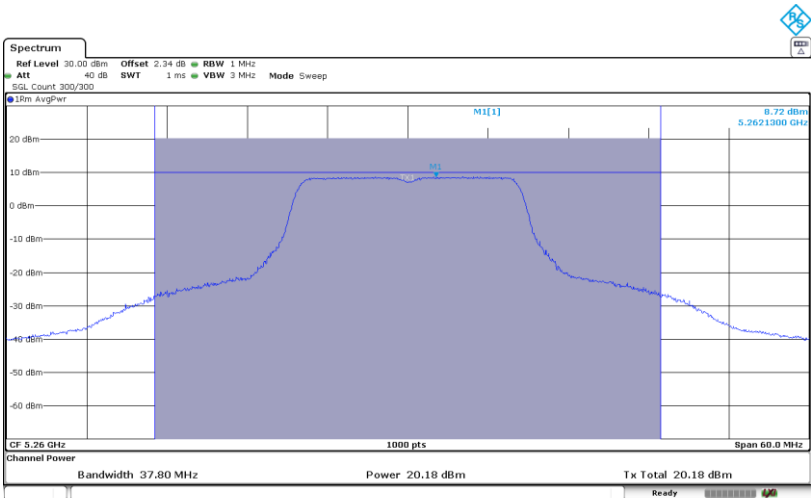
Mode : 802.11ac VHT80 – TxBF – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 8.10 dBi

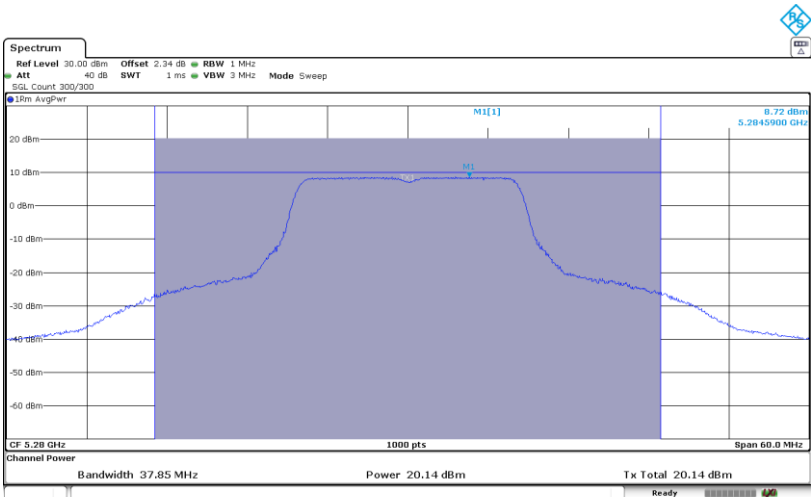
	channel 58 5290 MHz		
	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	8.03	8.25	8.01
Duty Cycle Correction Factor (dB)	0.12	0.12	0.12
Max. conducted power corrected (dBm)	8.15	8.37	8.13
Combined Conducted Power (dBm)	12.99		
Conducted Power Limit (dBm)	21.90		
Margin (dB)	8.91		
Maximum EIRP power (dBm)	21.09		
EIRP power Limit (dBm)	30		
Margin (dB)	8.91		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11a - 20MHz – SISO – CORE 2

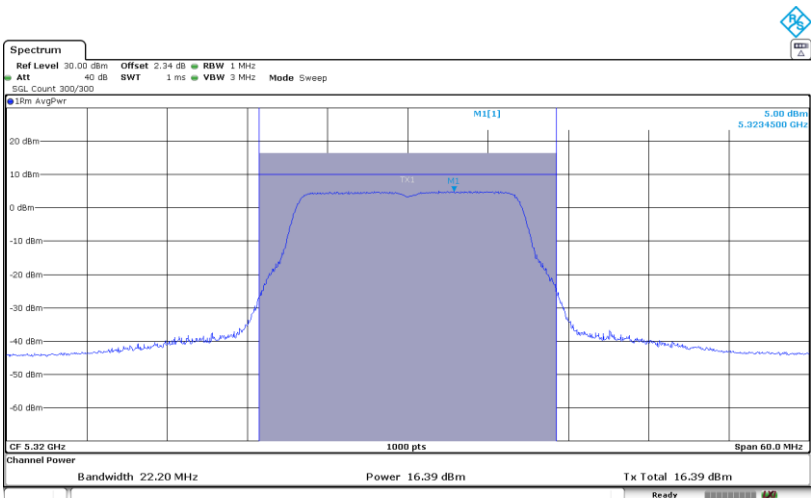
Channel 52



Channel 56

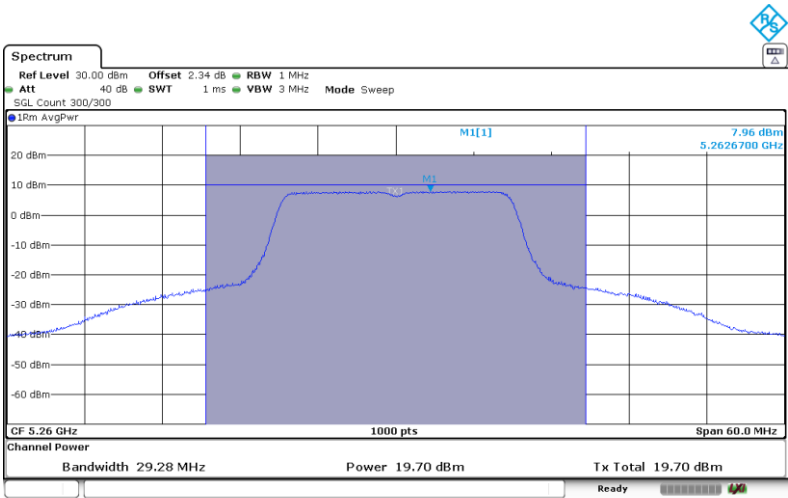


Channel 64

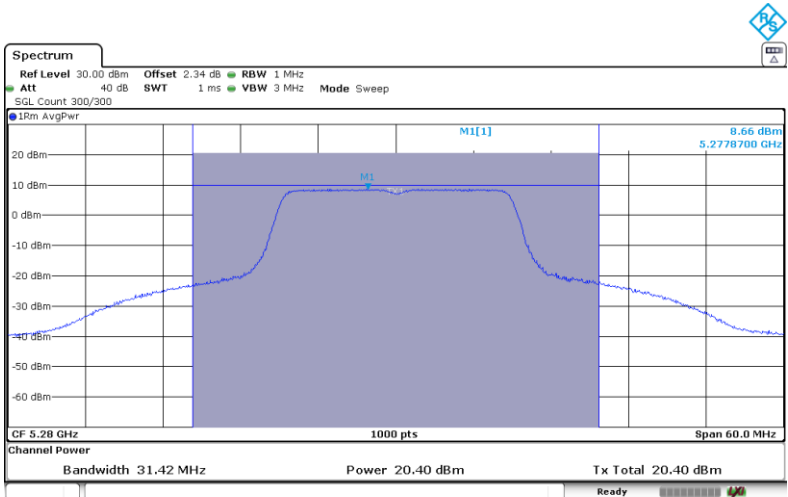


Mode : 802.11n HT20 - 20MHz – SISO – CORE 2

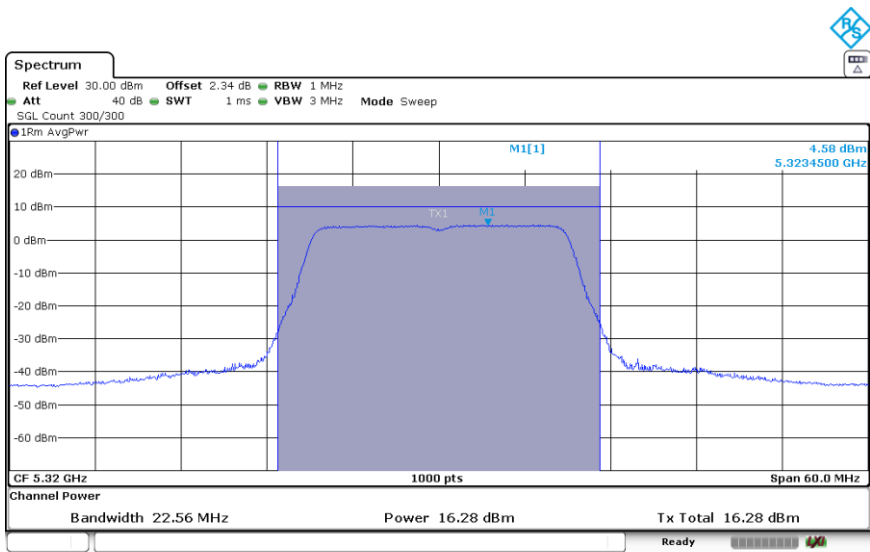
Channel 52



Channel 56

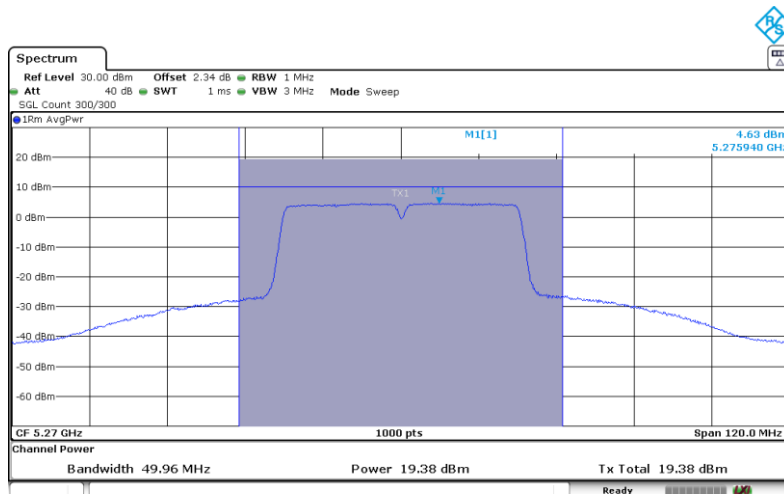


Channel 64

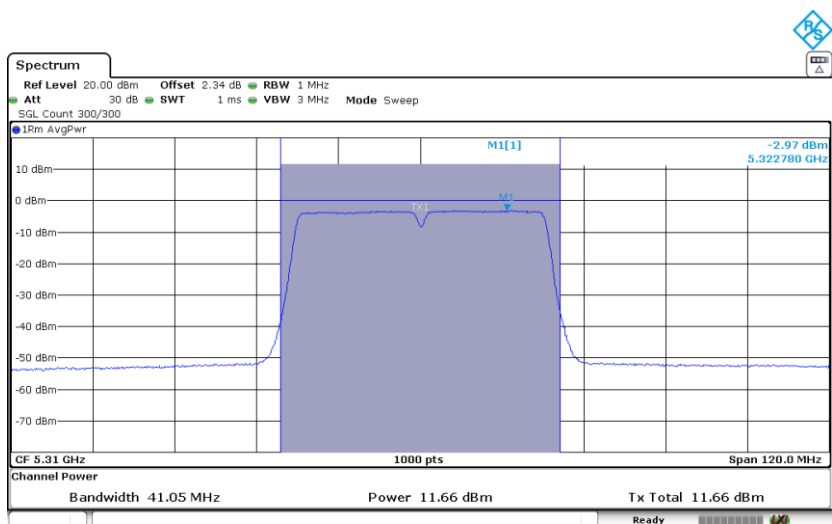


Mode : 802.11n HT40 - 40MHz – SISO – CORE 2

Channel 54



Channel 62



Mode : 802.11ac VHT80 - 80MHz – SISO – CORE 2

Channel 58

