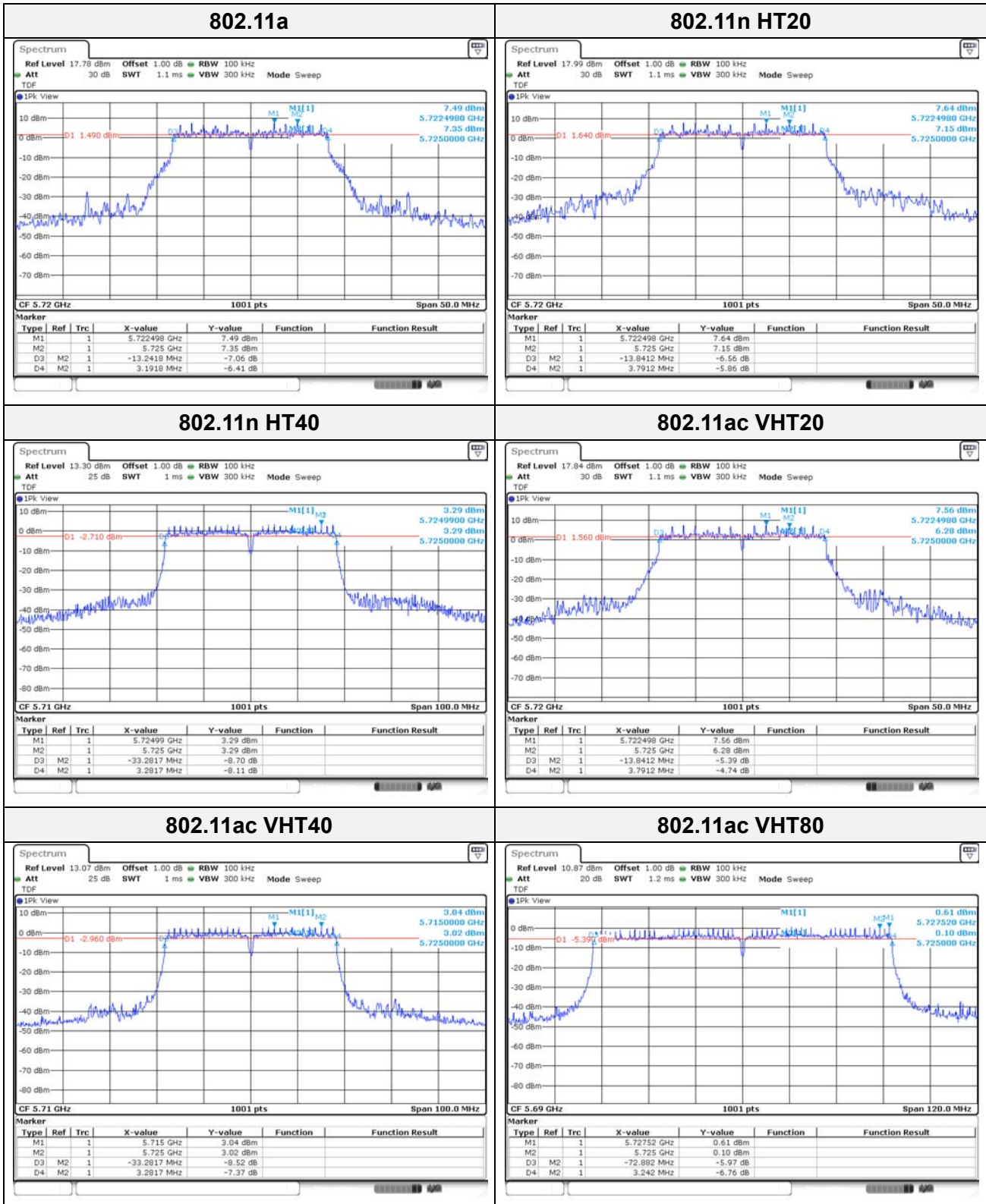
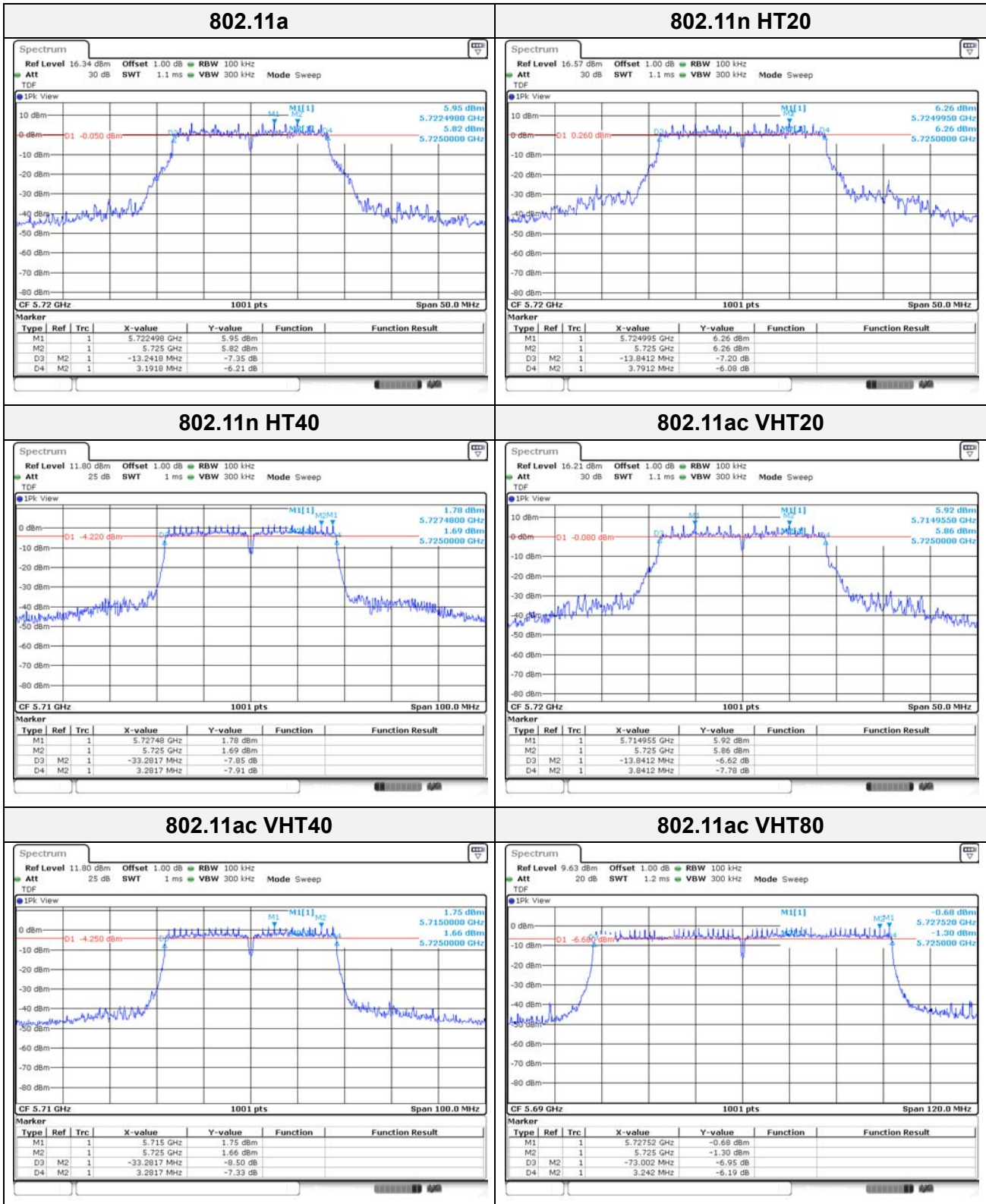


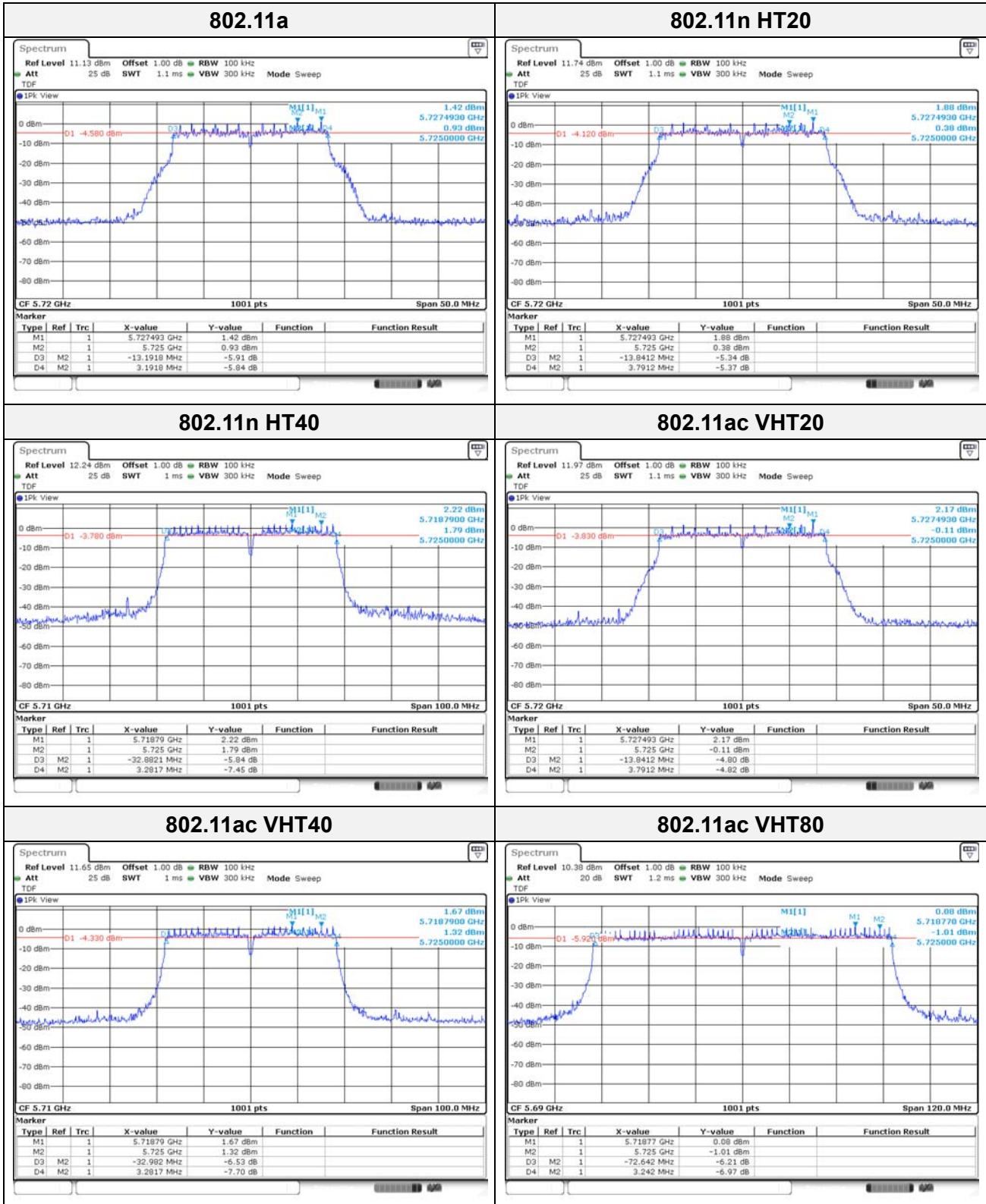
SISO ANT 2



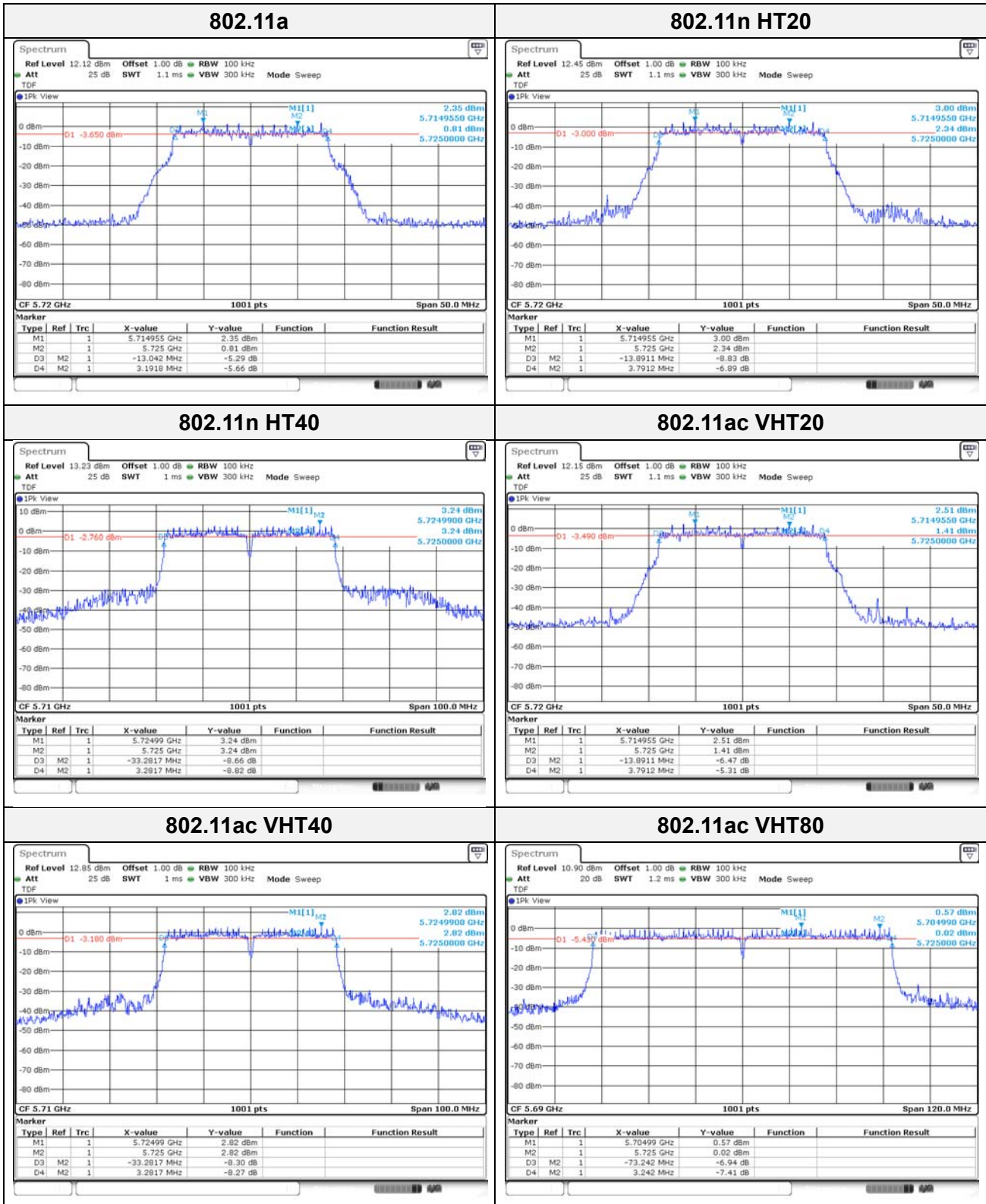
SISO ANT 3



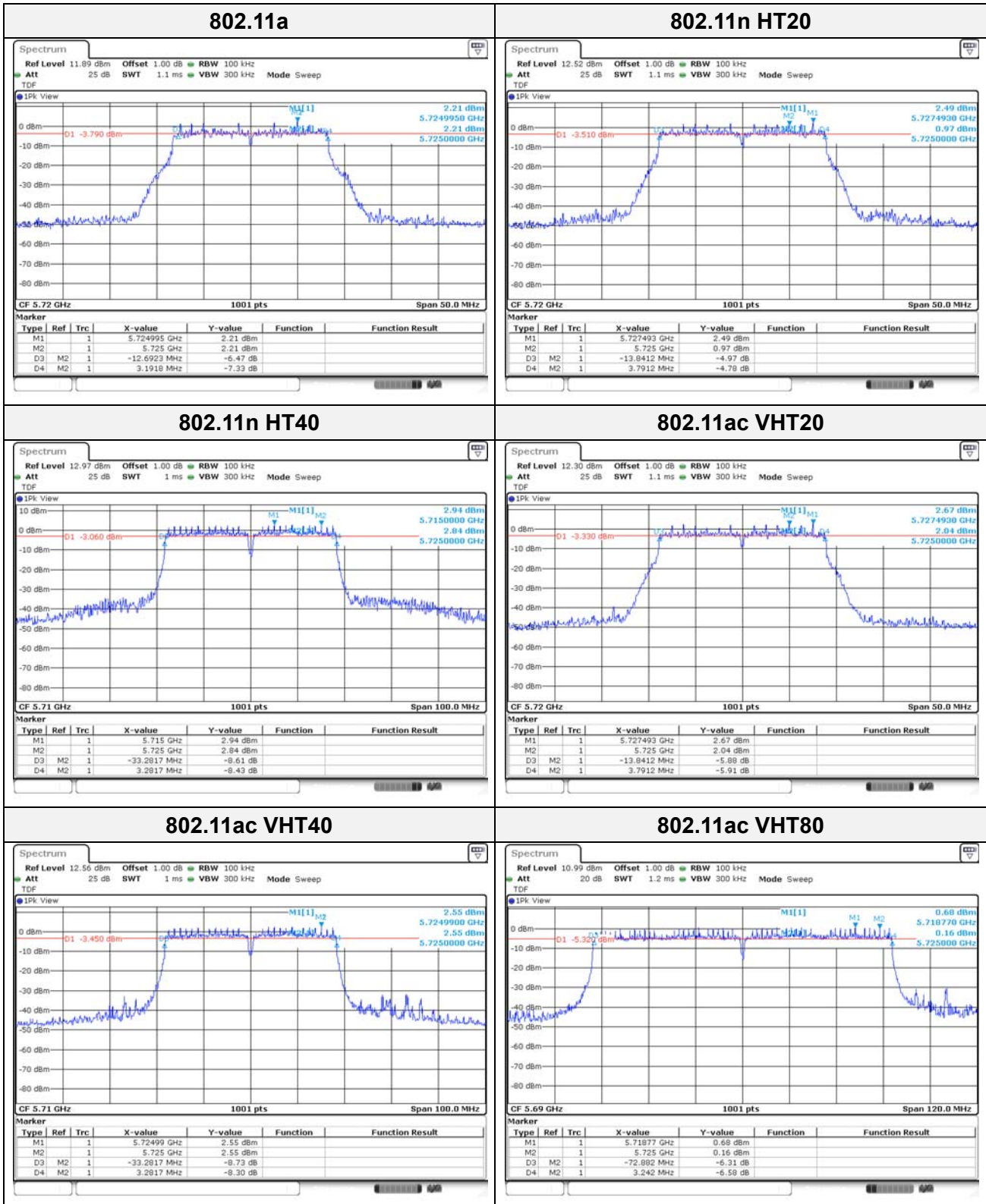
MIMO ANT 0



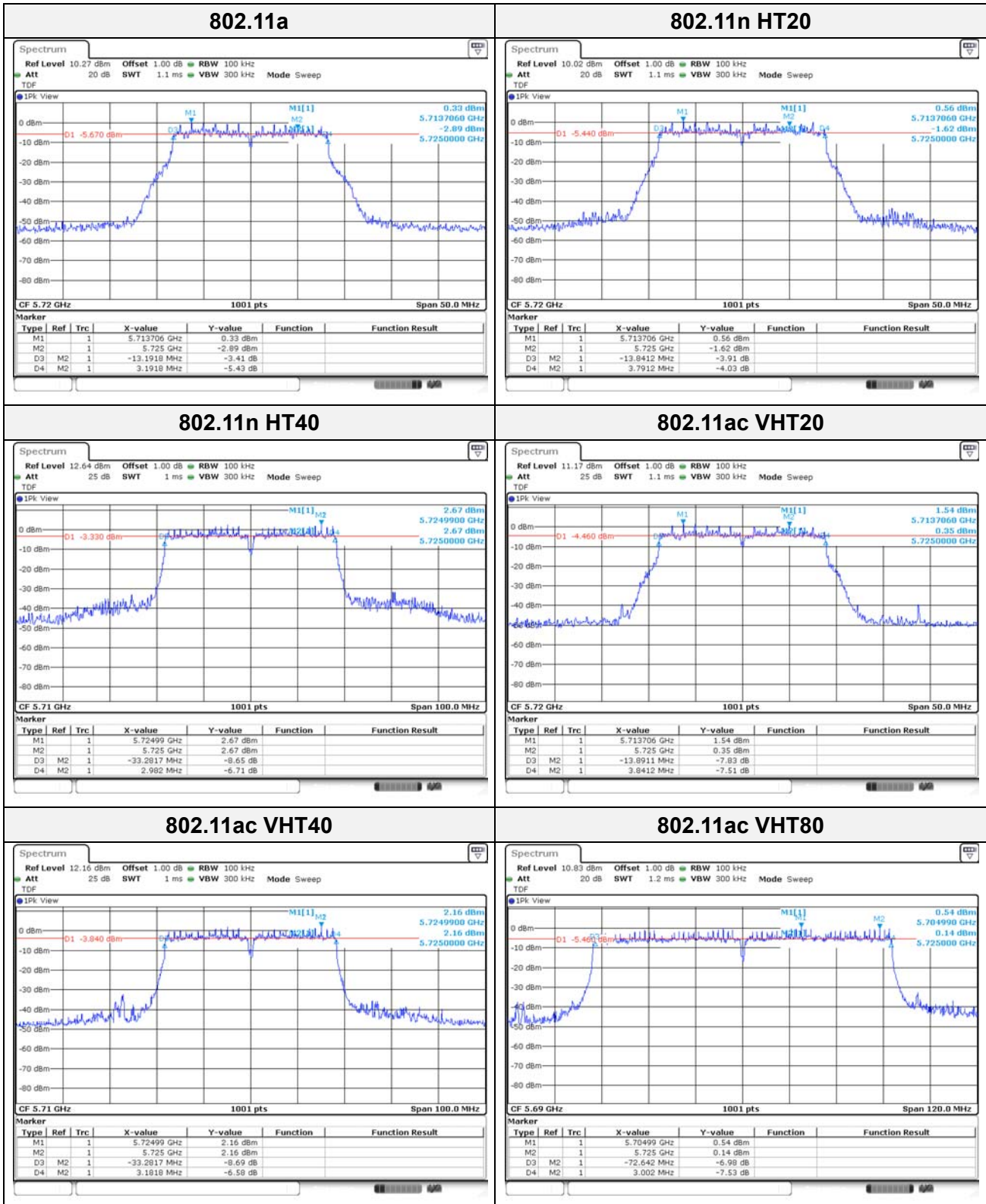
MIMO ANT 1



MIMO ANT 2



MIMO ANT 3



Output Power
-SISO

Test mode	Band	Frequency (MHz)	Measured output power								Limit (dBm)	
			Reading (dBm)				DCF (dB)	Result (dBm)				
			ANT0	ANT1	ANT2	ANT3		ANT0	ANT1	ANT2		ANT3
802.11a	UNII-2C	5 720	15.21	15.87	15.85	14.45	2.64	17.85	18.51	18.49	17.09	23.98
802.11n HT20			15.72	16.49	16.43	15.02	2.28	18.00	18.77	18.71	17.30	
802.11ac VHT20			17.06	17.77	17.62	16.27	0.77	17.83	18.54	18.39	17.04	
802.11a	UNII-3	5 720	9.48	9.81	9.95	8.36	2.64	12.12	12.45	12.59	11.00	30.00
802.11n HT20			10.25	10.85	10.64	9.37	2.28	12.53	13.13	12.92	11.65	
802.11ac VHT20			11.57	12.10	11.97	10.63	0.77	12.34	12.87	12.74	11.40	
802.11n HT40	UNII-2C	5 710	13.60	14.39	14.37	12.88	2.61	16.21	17.00	16.98	15.49	23.98
802.11ac VHT40			15.26	16.33	15.80	14.58	0.89	16.15	17.22	16.69	15.47	
802.11n HT40	UNII-3	5 710	3.56	4.63	4.44	3.39	2.61	6.17	7.24	7.05	6.00	30.00
802.11ac VHT40			5.65	6.13	5.89	4.44	0.89	6.54	7.02	6.78	5.33	
802.11ac VHT80	UNII-2C	5 690	15.75	16.99	16.33	15.12	0.95	16.70	17.94	17.28	16.07	23.98
	UNII-3	5 690	3.52	3.70	3.41	2.54	0.95	4.47	4.65	4.36	3.49	30.00

Note.

1. Result(dB m) = 10log(10^(ANT 0/10) + 10^(ANT 1/10) + 10^(ANT 2/10) + 10^(ANT 3/10)) + Duty Cycle Factor (dB)

2. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW (26.99 dBm) for FCC.

Maximum e.i.r.p(dBm) = Maximum output power(dBm) + Ant gain (dBi)

UNII 2C 11n HT20 / ANT 1 / 5 720 MHz = 18.77 (dBm) + 2.00 (dBi) = 20.77 (dBm)

-MIMO

Test mode	Band	Frequency (MHz)	Measured output power					Limit (dBm)	
			Reading (dBm)				DCF (dB)		Result (dBm)
			ANT0	ANT1	ANT2	ANT3			
802.11a	UNII-2C	5 720	8.53	10.02	9.64	8.24	2.64	17.83	23.98
802.11n HT20			9.53	10.82	10.39	8.94	2.28	18.28	
802.11ac VHT20			11.19	11.68	11.97	10.61	0.77	18.18	
802.11a	UNII-3	5 720	3.49	3.55	3.83	1.68	2.64	11.88	30.00
802.11n HT20			4.62	5.34	5.07	2.98	2.28	12.89	
802.11ac VHT20			5.67	5.90	6.24	4.73	0.77	12.46	
802.11n HT40	UNII-2C	5 710	12.97	13.66	13.86	12.61	2.63	21.95	23.98
802.11ac VHT40			14.12	15.08	15.08	13.81	0.89	21.47	
802.11n HT40	UNII-3	5 710	3.23	4.20	3.79	3.19	2.63	12.27	30.00
802.11ac VHT40			4.28	5.23	5.07	4.04	0.89	11.60	
802.11ac VHT80	UNII-2C	5 690	15.36	16.15	16.28	15.24	0.95	22.75	23.98
	UNII-3	5 690	2.54	3.18	3.09	2.89	0.95	9.90	30.00

Note.

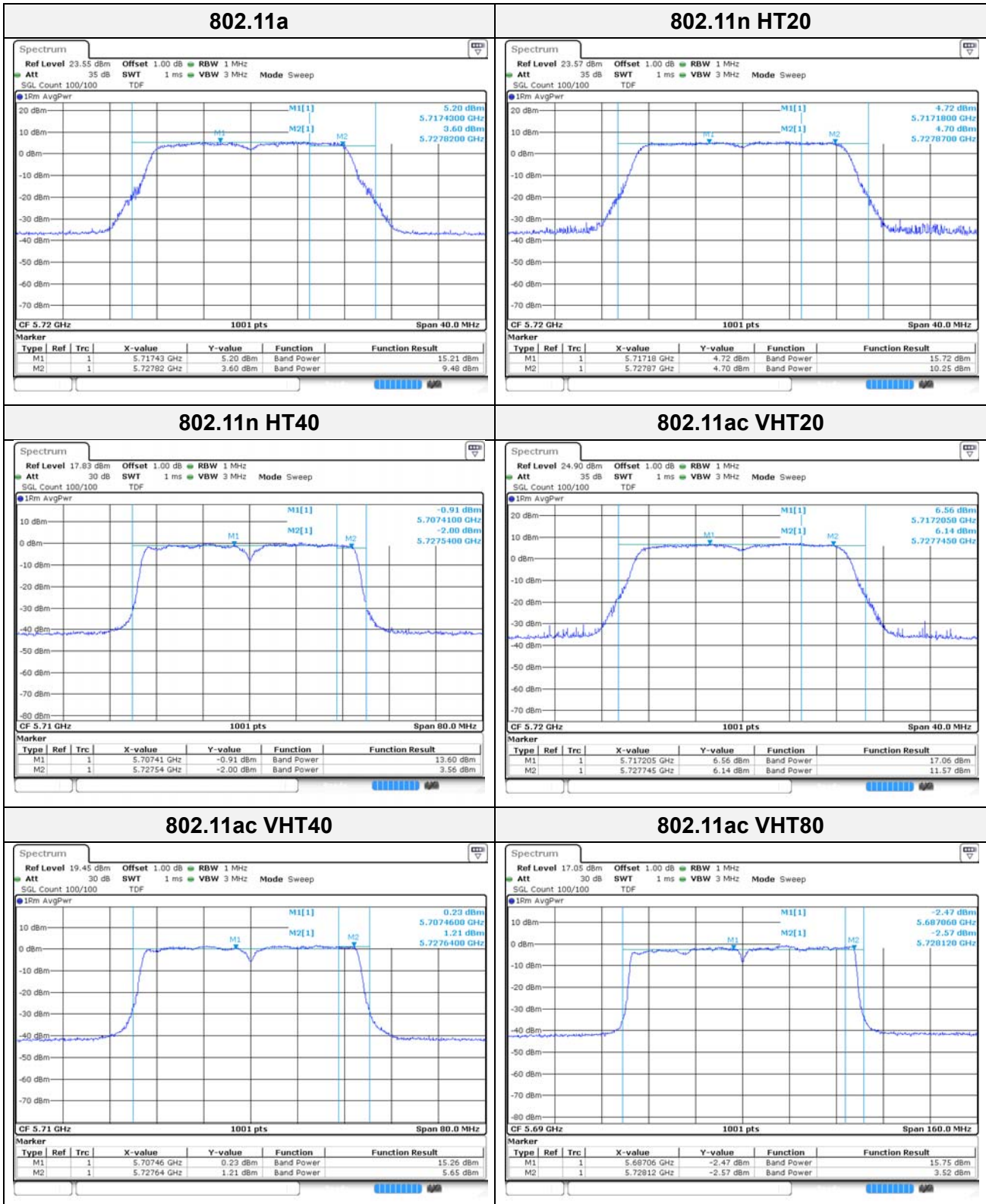
1. Result(dB m) = 10log(10^(ANT 0/10) + 10^(ANT 1/10) + 10^(ANT 2/10) + 10^(ANT 3/10)) + Duty Cycle Factor (dB)

2. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW (26.99 dBm) for FCC.

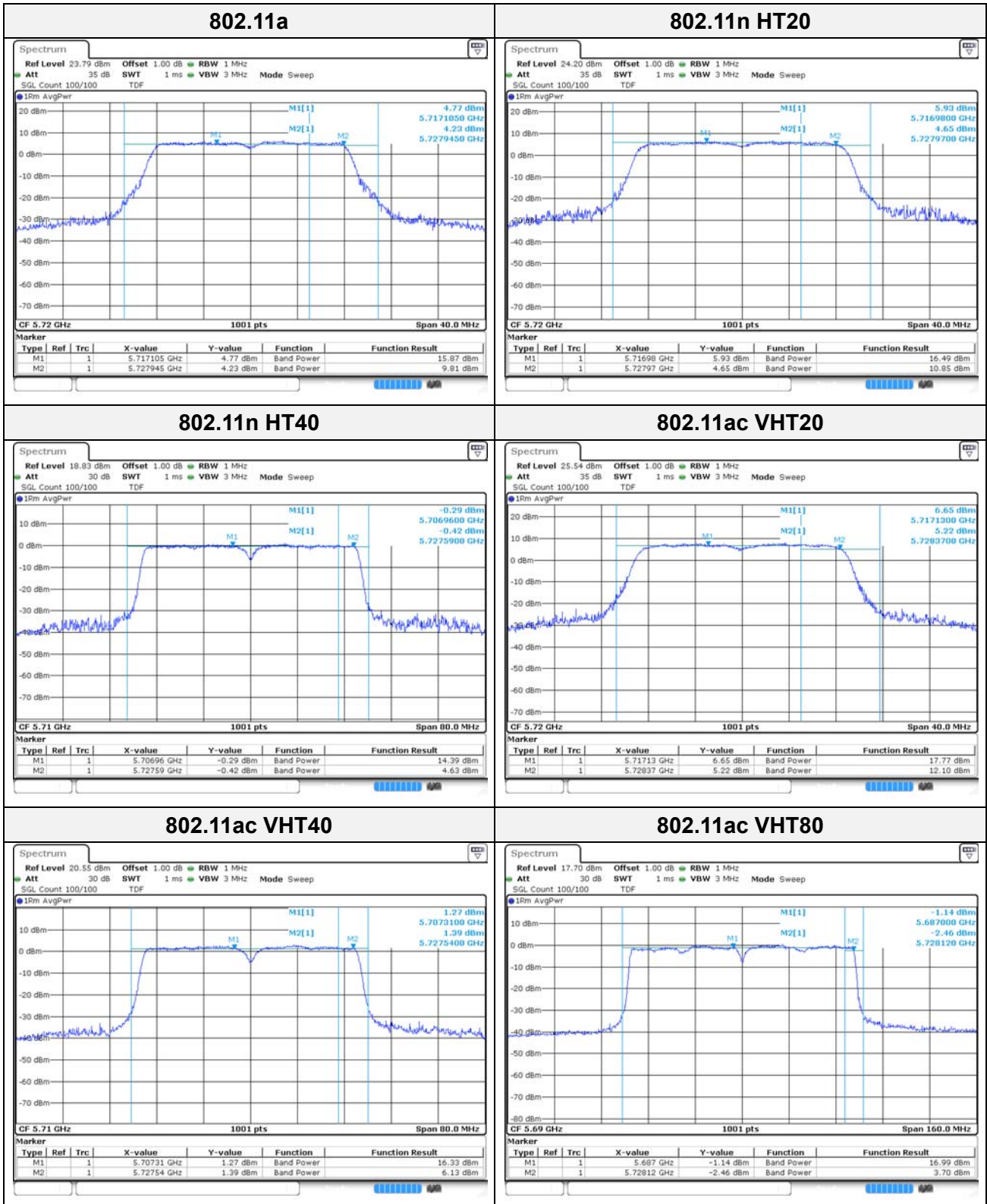
Maximum e.i.r.p(dBm) = Maximum output power(dBm) + Maximum Ant gain (dBi)

UNII 2C 11ac VHT80 / MIMO / 5 690 MHz = 22.75 (dBm) + 2.00 (dBi) = 24.75 (dBm)

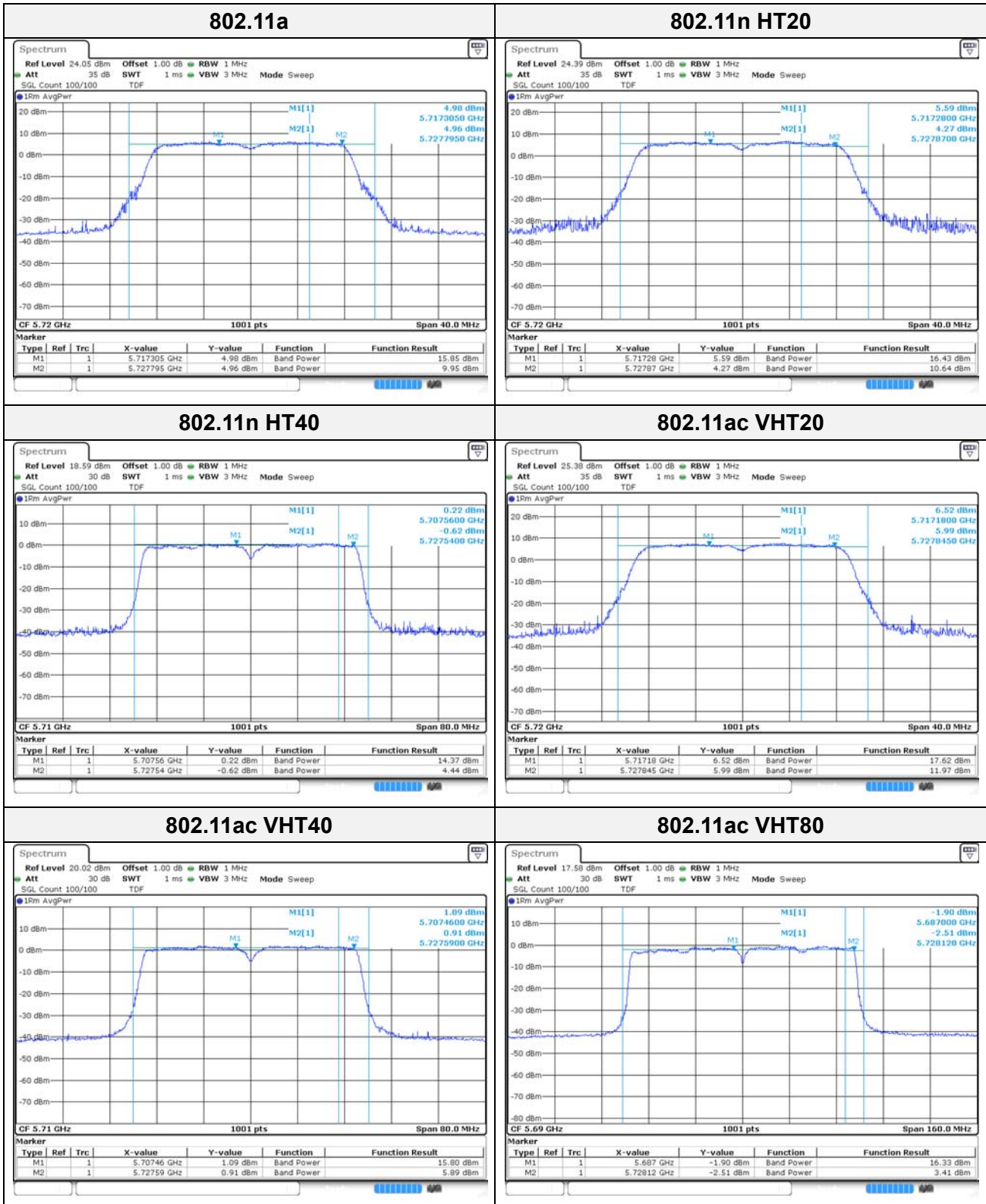
SISO ANT 0



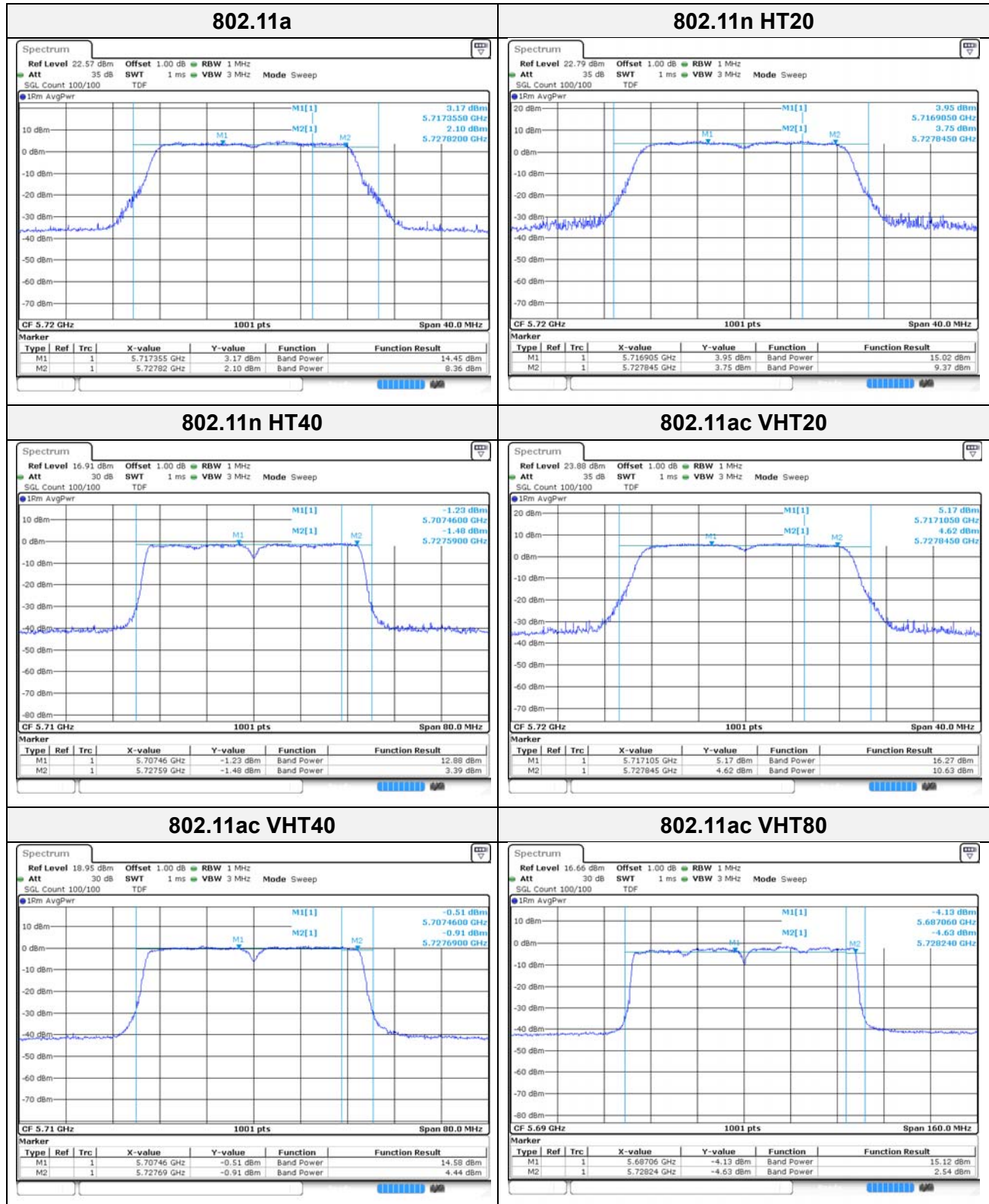
SISO ANT 1



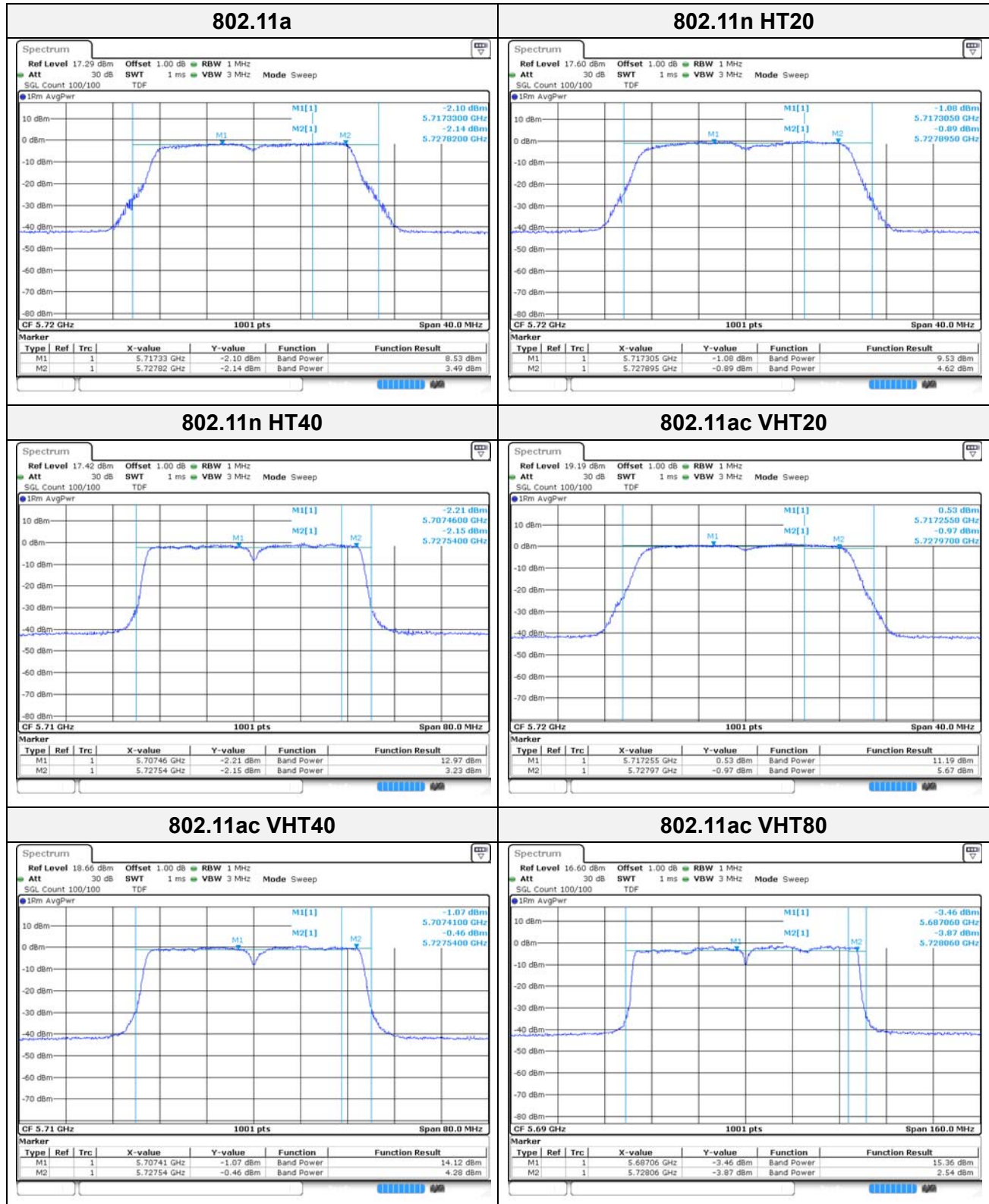
SISO ANT 2



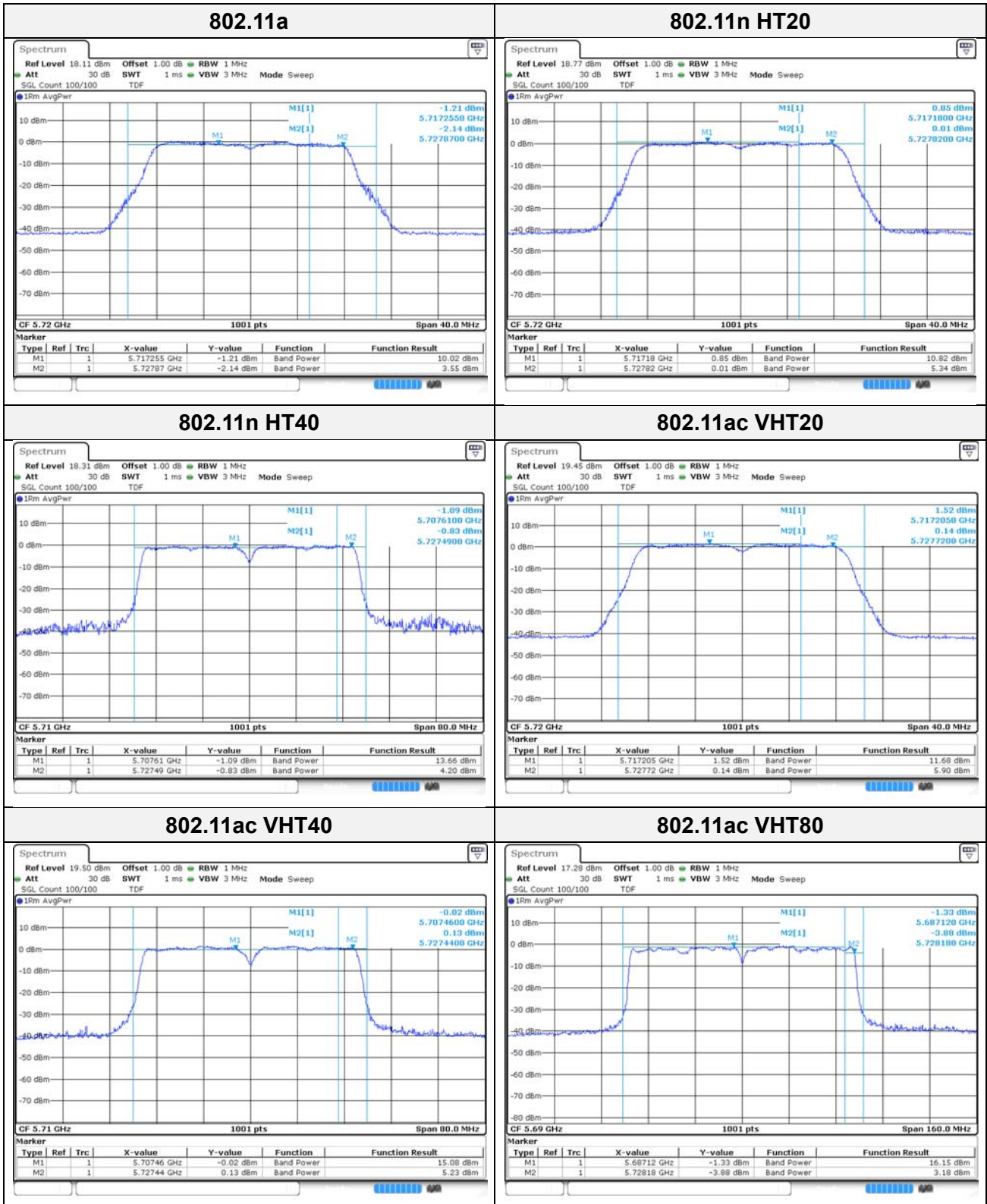
SISO ANT 3



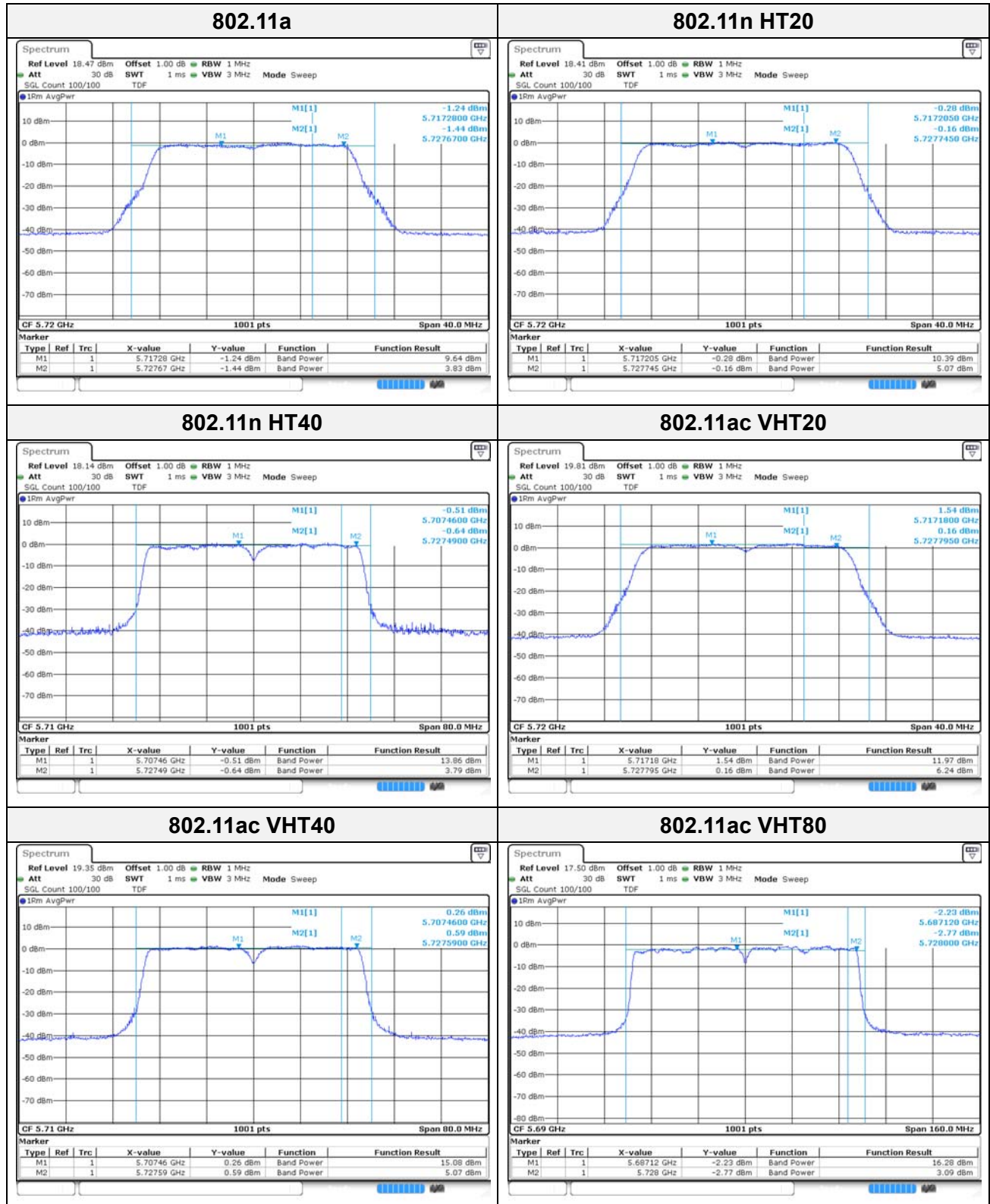
MIMO ANT 0



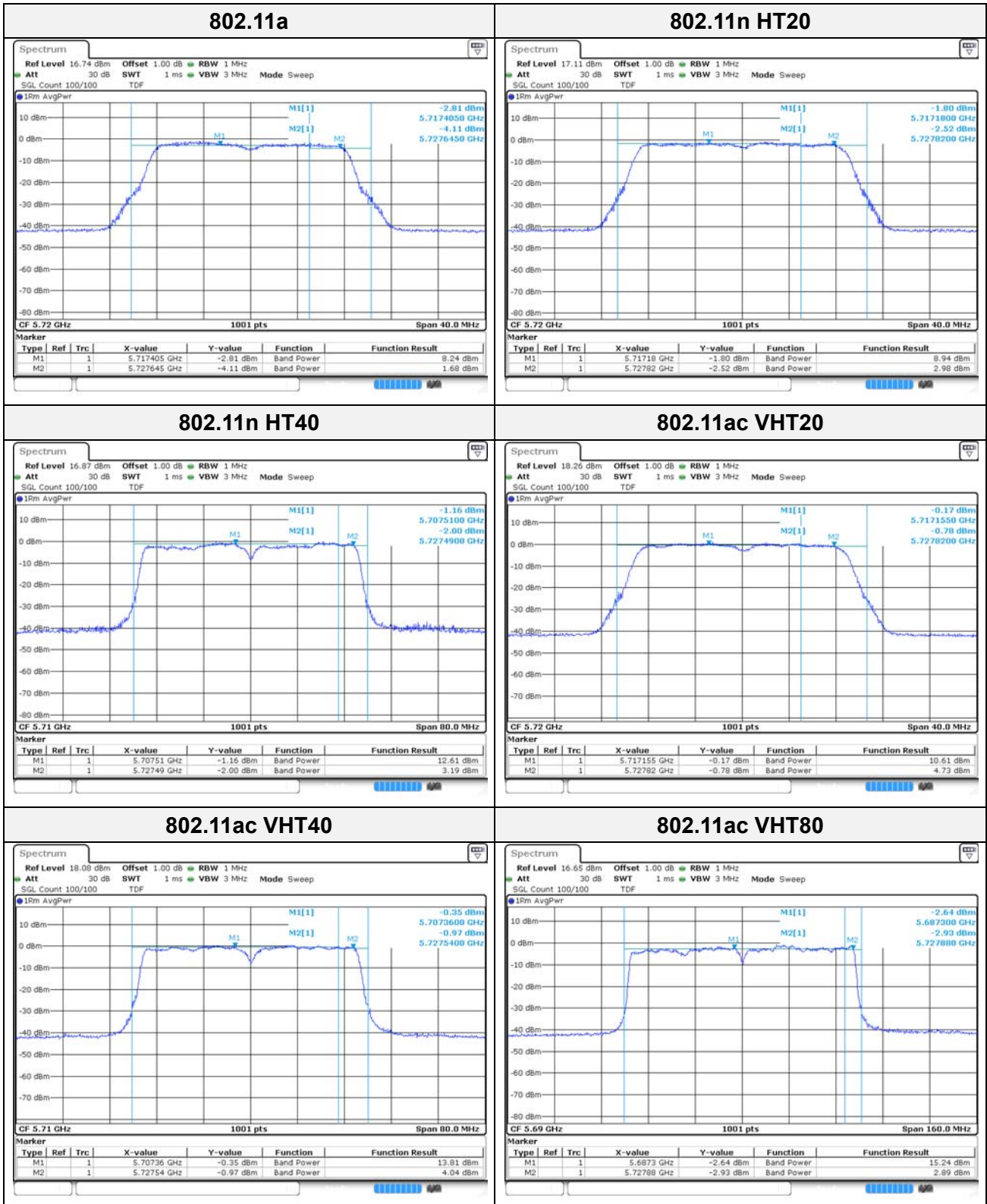
MIMO ANT 1



MIMO ANT 2



MIMO ANT 3



Power Spectral Density
-SISO

Test mode	Band	Frequency (MHz)	Measured PSD (dBm/MHz)				DCF (dB)	Maximum PSD (dBm/MHz)				Limit (dBm/MHz)
			ANT0	ANT1	ANT2	ANT3		ANT0	ANT1	ANT2	ANT3	
802.11a	UNII-2C	5 720	6.13	6.66	6.54	5.05	2.64	8.77	9.30	9.18	7.69	11.00
802.11n HT20			6.31	6.42	6.63	5.29	2.28	8.59	8.70	8.91	7.57	
802.11ac VHT20			7.17	7.55	7.54	6.31	0.77	7.94	8.32	8.31	7.08	
802.11n HT40		5 710	0.67	1.71	1.36	-0.31	2.61	3.28	4.32	3.97	2.30	
802.11ac VHT40			2.05	3.07	2.57	1.37	0.89	2.94	3.96	3.46	2.26	
802.11ac VHT80			5 690	-0.63	0.19	-0.27	-1.23	0.95	0.32	1.14	0.68	

Test mode	Band	Frequency (MHz)	Measured PSD (dBm/ 500 kHz)				DCF (dB)	Maximum PSD (dBm/ 500 kHz)				Limit (dBm/500 kHz)
			ANT0	ANT1	ANT2	ANT3		ANT0	ANT1	ANT2	ANT3	
802.11a	UNII-3	5 720	3.00	3.23	3.70	2.25	2.64	5.64	5.87	6.34	4.89	30.00
802.11n HT20			3.24	3.37	3.52	2.43	2.28	5.52	5.65	5.80	4.71	
802.11ac VHT20			4.10	4.85	4.42	3.41	0.77	4.87	5.62	5.19	4.18	
802.11n HT40		5 710	-2.18	-1.29	-1.06	-2.86	2.61	0.43	1.32	1.55	-0.25	
802.11ac VHT40			-0.58	-0.13	-0.60	-2.04	0.89	0.31	0.76	0.29	-1.15	
802.11ac VHT80			5 690	-3.39	-2.20	-2.89	-4.39	0.95	-2.44	-1.25	-1.94	

-MIMO

Test mode	Band	Frequency (MHz)	Measured PSD (dBm/MHz)				DCF (dB)	Maximum PSD (dB m/MHz)	Limit (dBm/MHz)
			ANT0	ANT1	ANT2	ANT3			
802.11a	UNII-2C	5 720	-0.25	0.76	0.11	-0.64	2.64	8.69	9.13
802.11n HT20			0.05	1.34	0.65	-0.80	2.28	8.68	
802.11ac VHT20			1.94	1.95	2.35	0.63	0.77	8.55	
802.11n HT40		5 710	0.38	0.22	-0.10	-0.29	2.63	8.71	
802.11ac VHT40			1.08	2.14	2.15	0.29	0.89	8.40	
802.11ac VHT80			5 690	-0.97	-0.36	-0.34	-0.88	0.95	

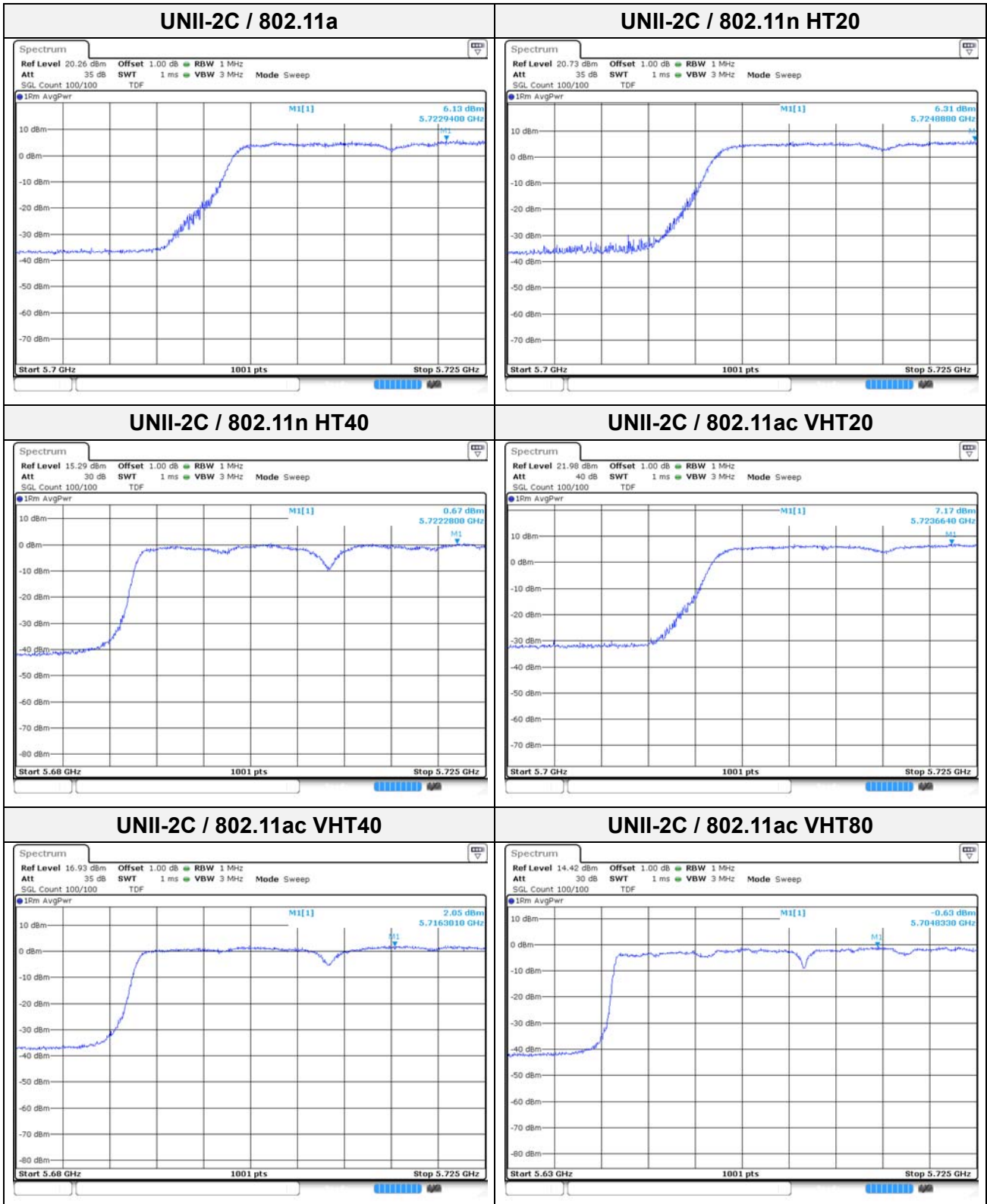
Test mode	Band	Frequency (MHz)	Measured PSD (dBm/ 500 kHz)				DCF (dB)	Maximum PSD (dBm / 500 kHz)	Limit (dBm / 500 kHz)
			ANT0	ANT1	ANT2	ANT3			
802.11a	UNII-3	5 720	-3.21	-2.72	-2.25	-4.82	2.64	5.51	28.05
802.11n HT20			-2.56	-1.29	-2.10	-3.36	2.28	6.03	
802.11ac VHT20			-1.03	-0.93	-0.73	-2.47	0.77	5.55	
802.11n HT40		5 710	-3.18	-2.64	-3.73	-2.74	2.63	5.59	
802.11ac VHT40			-2.31	-1.05	-1.19	-2.37	0.89	5.23	
802.11ac VHT80			5 690	-4.20	-3.25	-3.34	-4.20	0.95	

Notes:

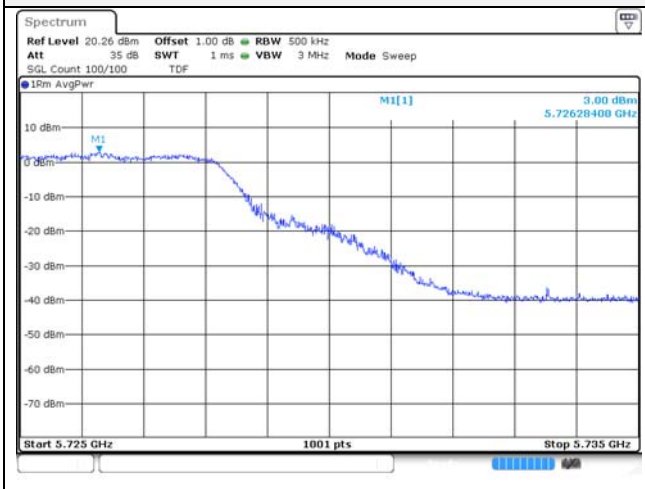
1. Maximum PSD calculation

- Maximum PSD = $10\log(10^{(ANT\ 0/10)} + 10^{(ANT\ 1/10)} + 10^{(ANT\ 2/10)} + 10^{(ANT\ 3/10)}) + \text{Duty Cycle Factor (dB)}$

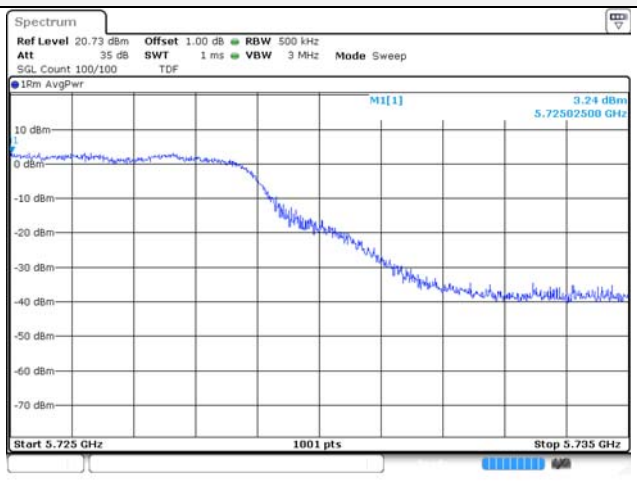
SISO ANT 0



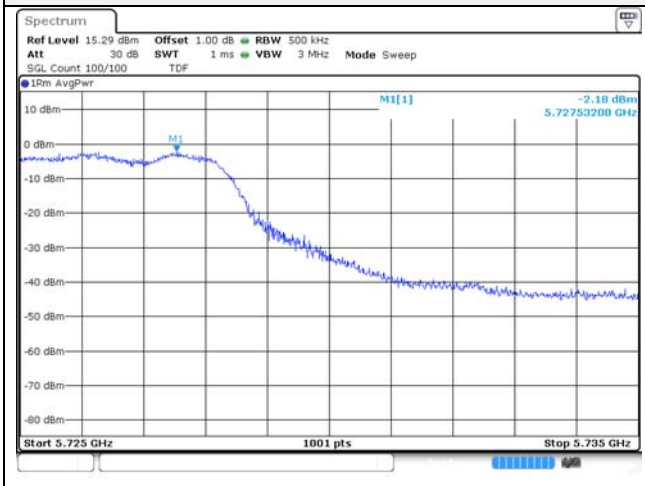
UNII-3 / 802.11a



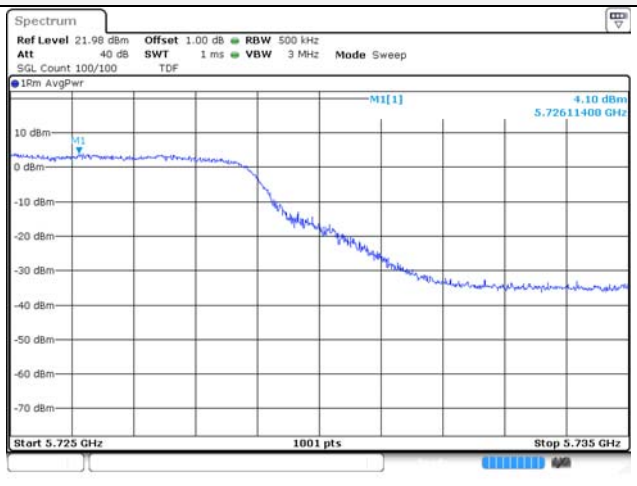
UNII-3 / 802.11n HT20



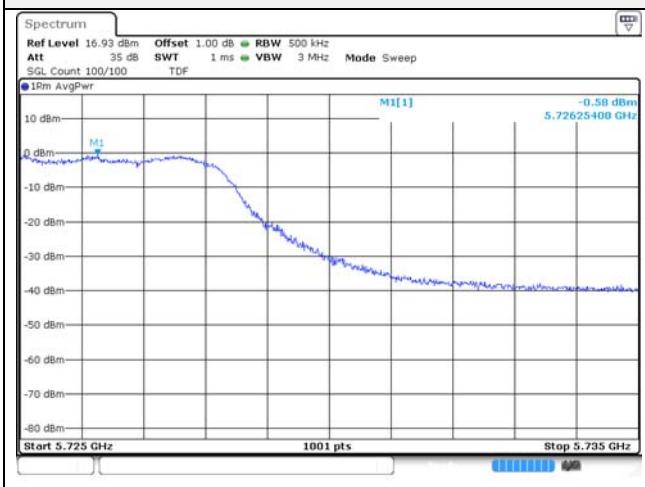
UNII-3 / 802.11n HT40



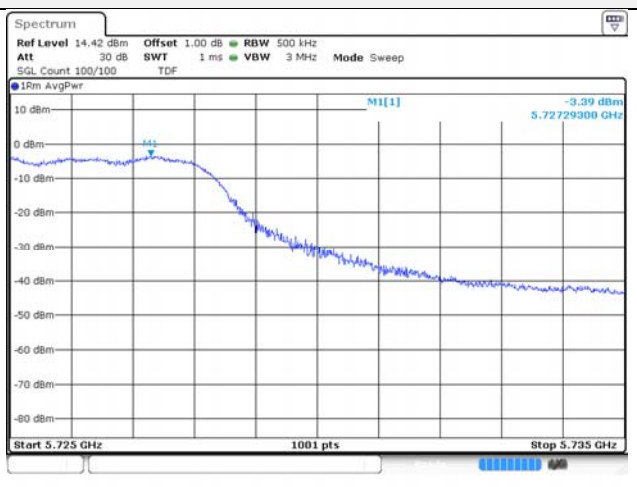
UNII-3 / 802.11ac VHT20



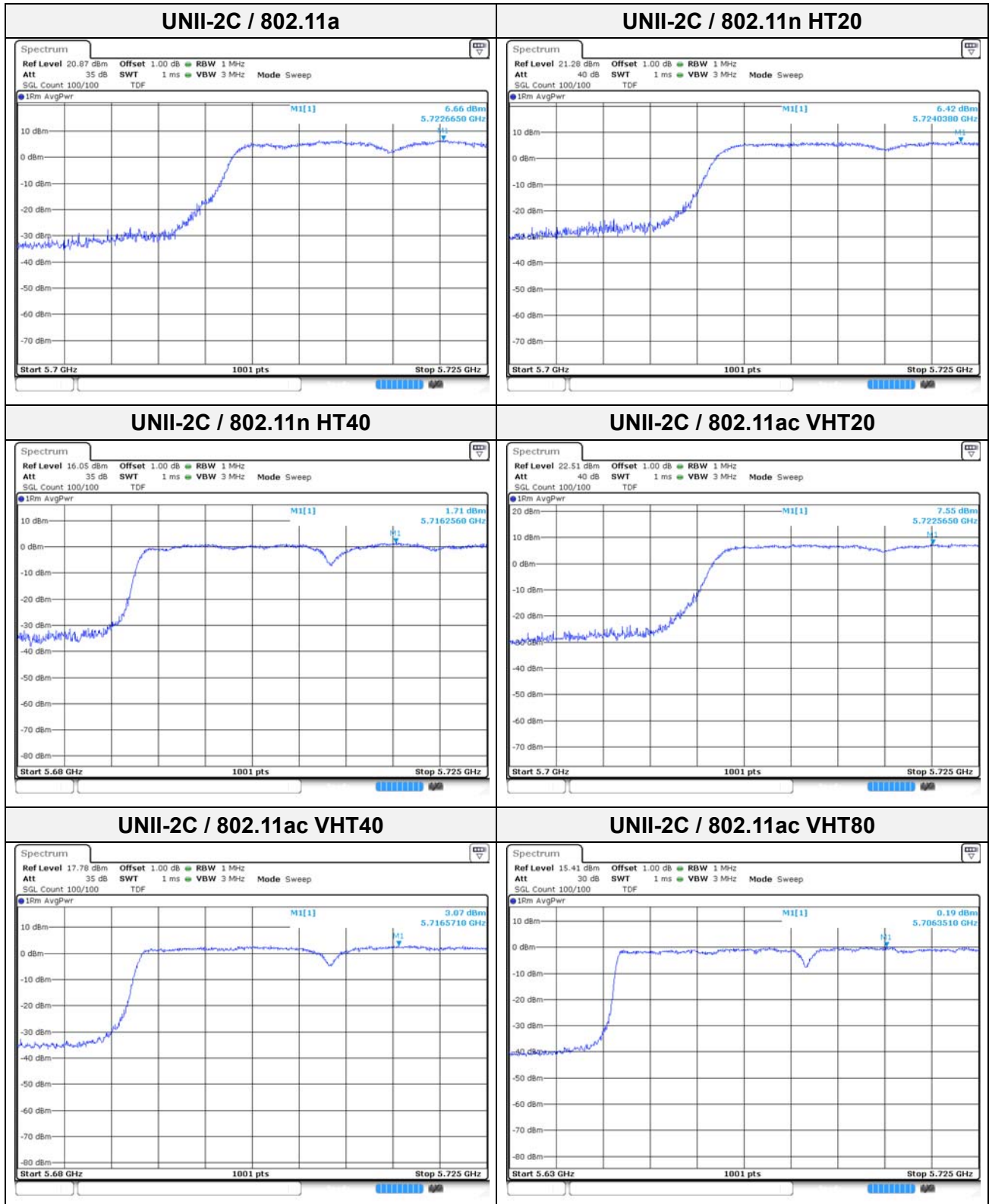
UNII-3 / 802.11ac VHT40



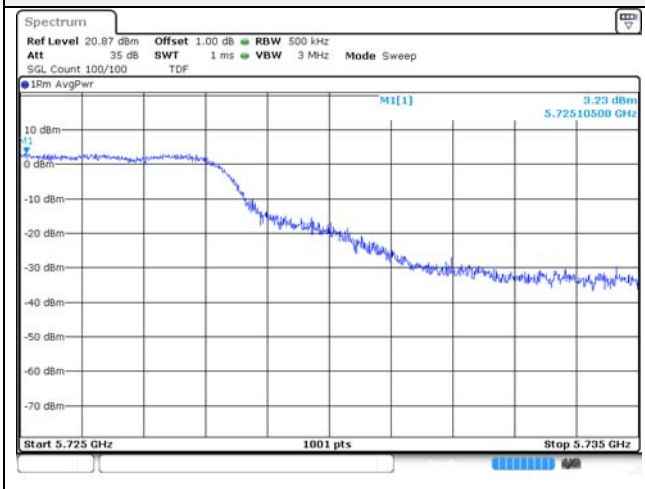
UNII-3 / 802.11ac VHT80



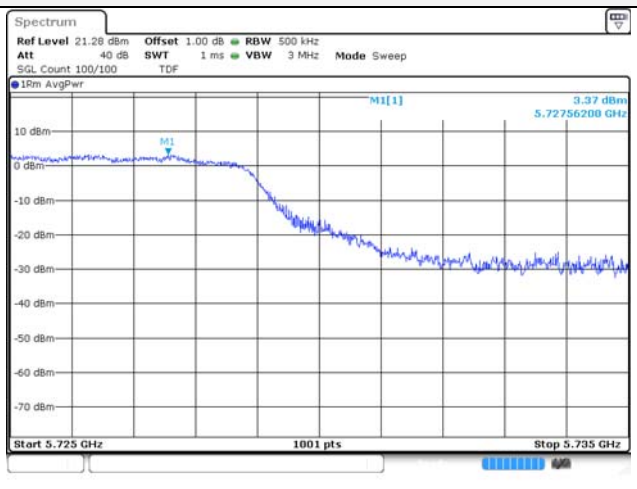
SISO ANT 1



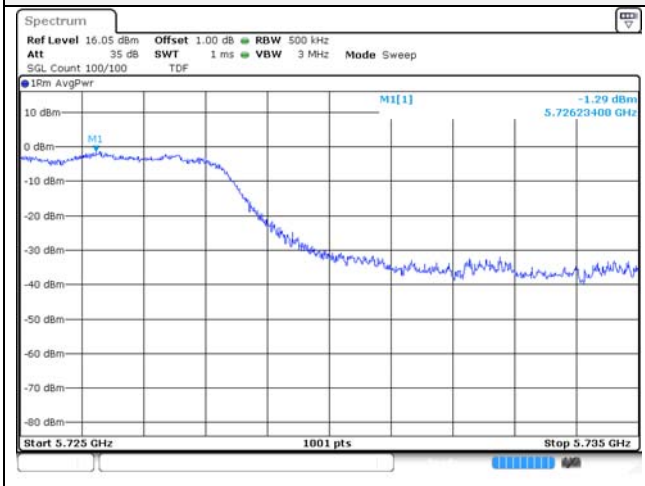
UNII-3 / 802.11a



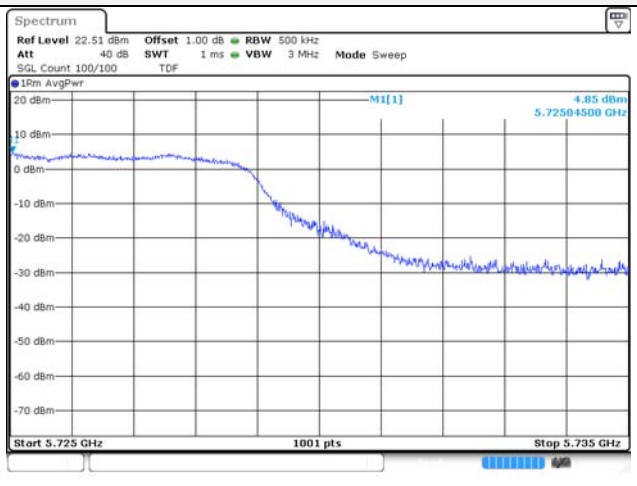
UNII-3 / 802.11n HT20



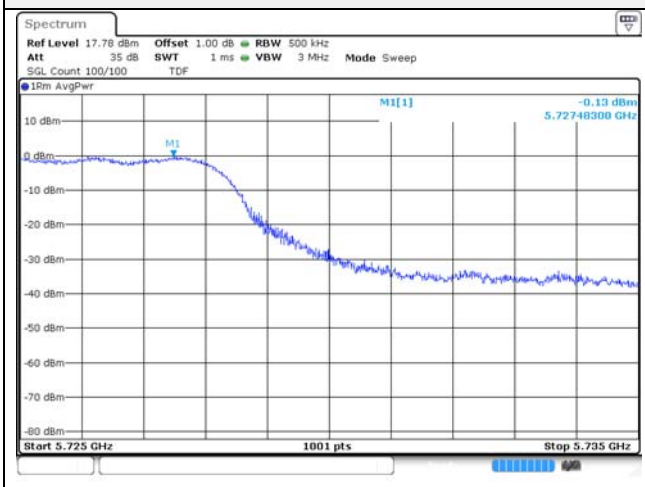
UNII-3 / 802.11n HT40



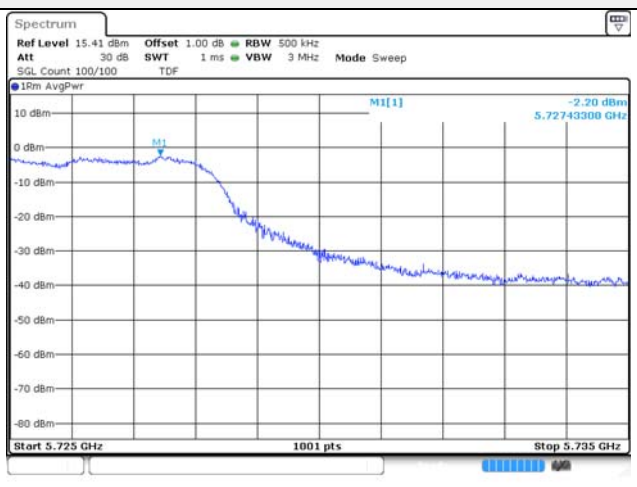
UNII-3 / 802.11ac VHT20



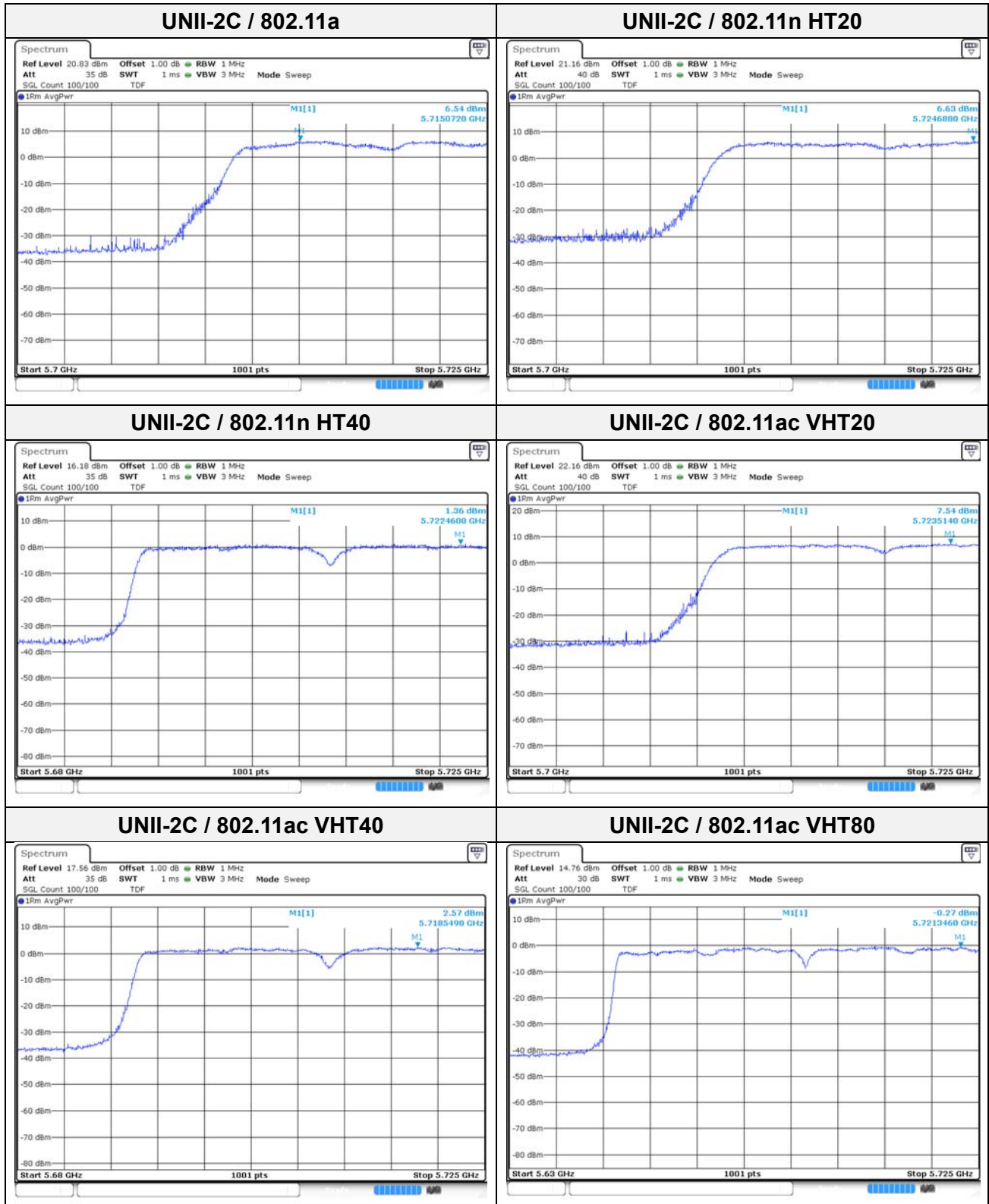
UNII-3 / 802.11ac VHT40



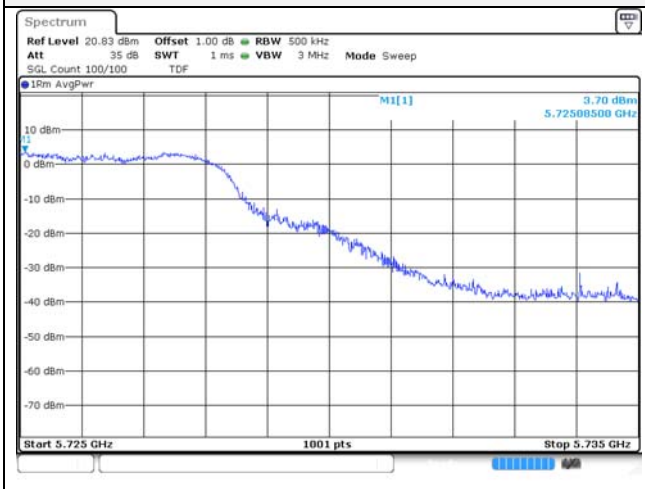
UNII-3 / 802.11ac VHT80



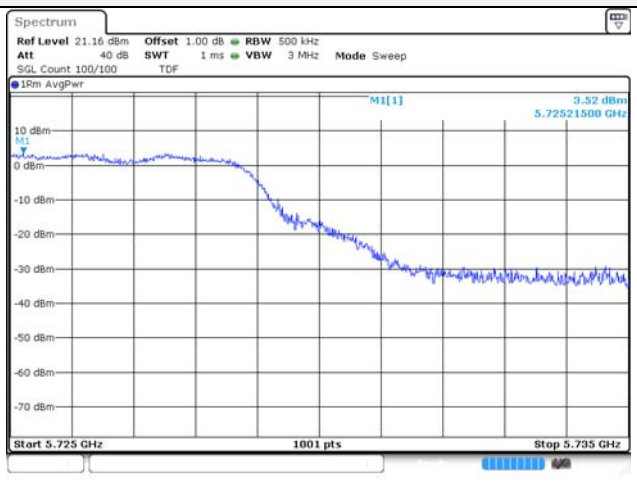
SISO ANT 2



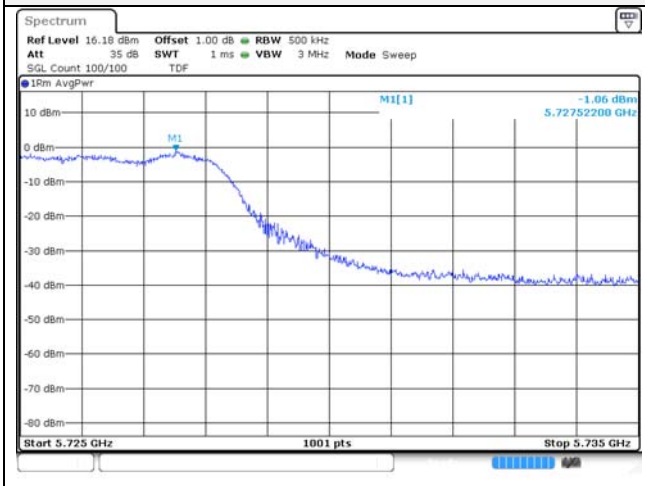
UNII-3 / 802.11a



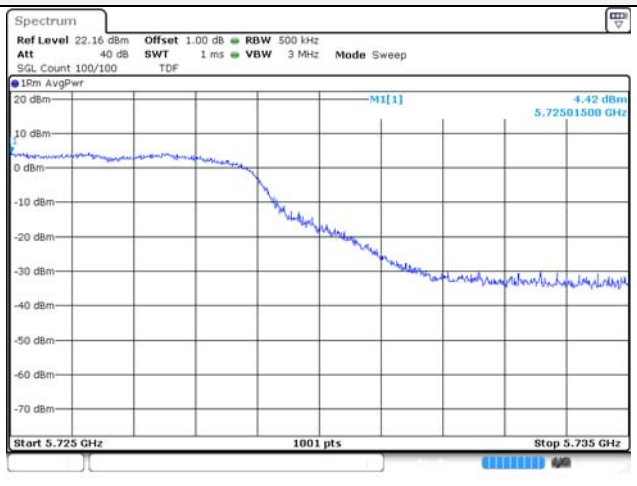
UNII-3 / 802.11n HT20



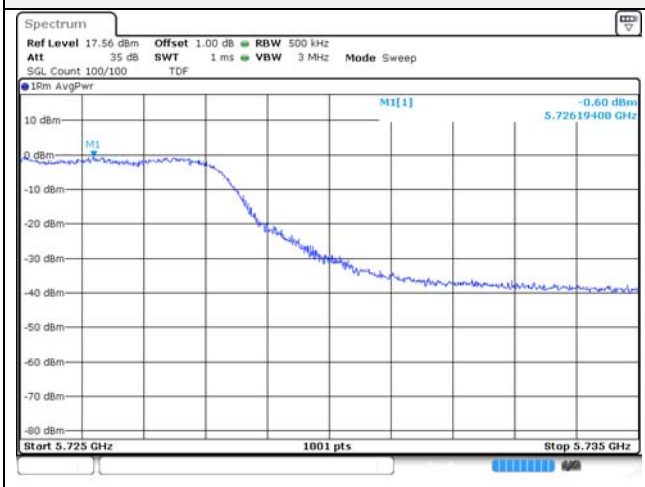
UNII-3 / 802.11n HT40



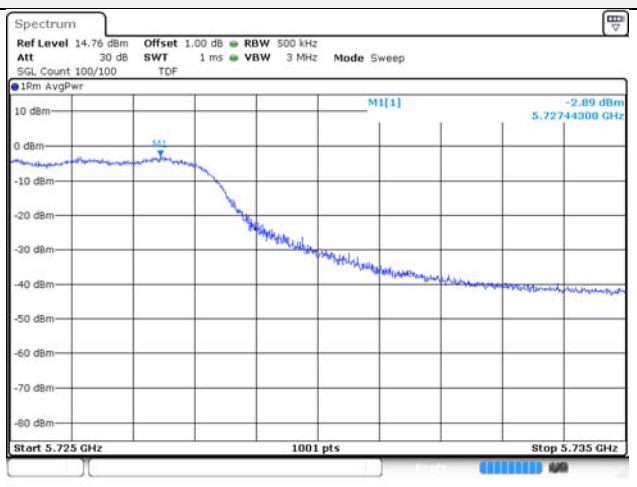
UNII-3 / 802.11ac VHT20



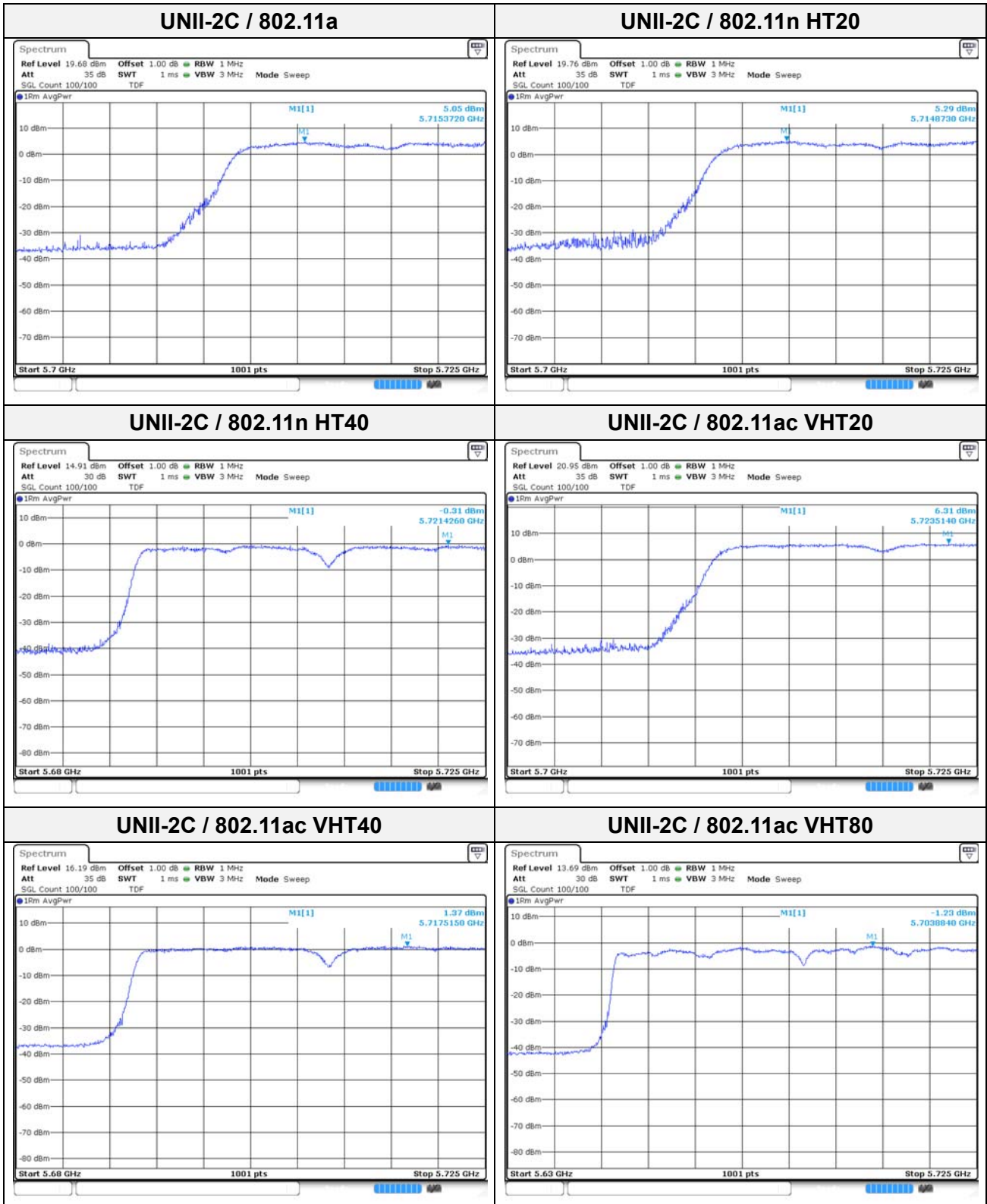
UNII-3 / 802.11ac VHT40



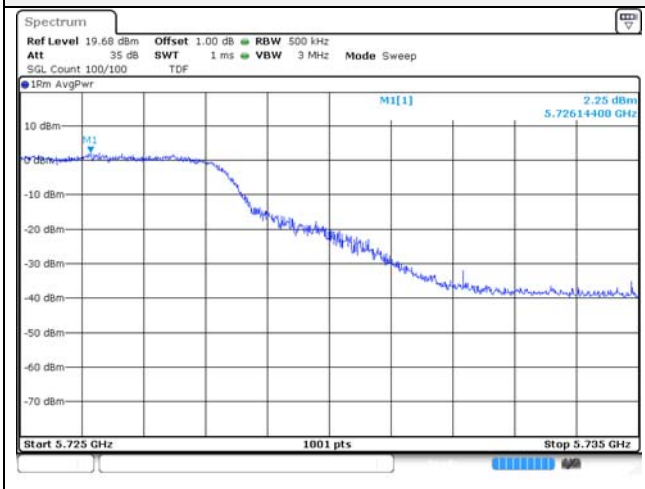
UNII-3 / 802.11ac VHT80



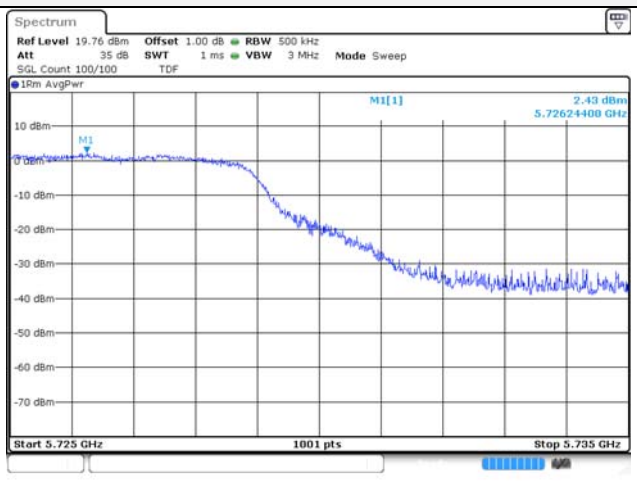
SISO ANT 3



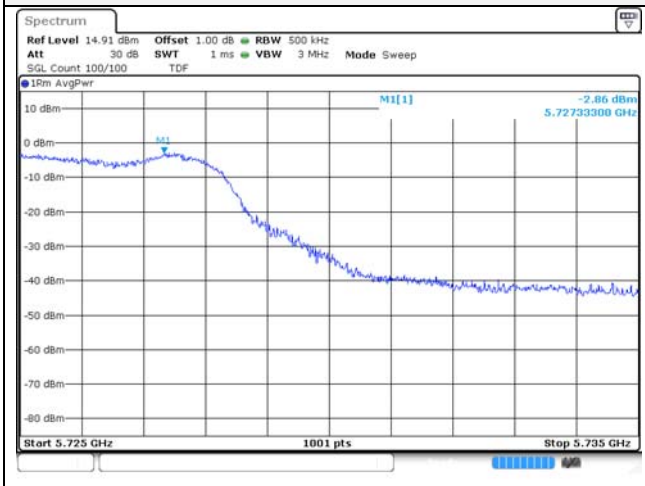
UNII-3 / 802.11a



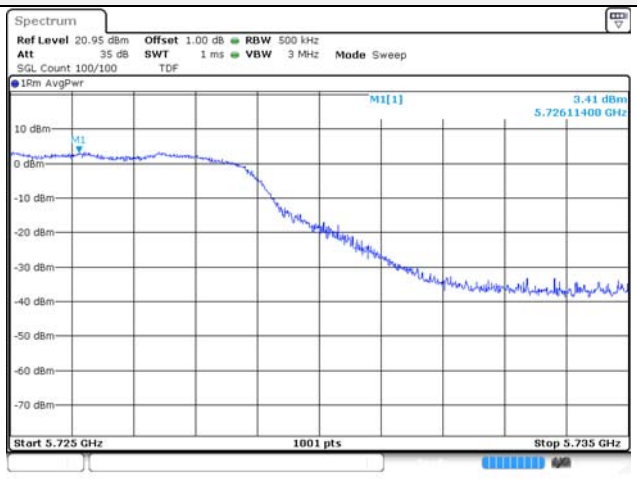
UNII-3 / 802.11n HT20



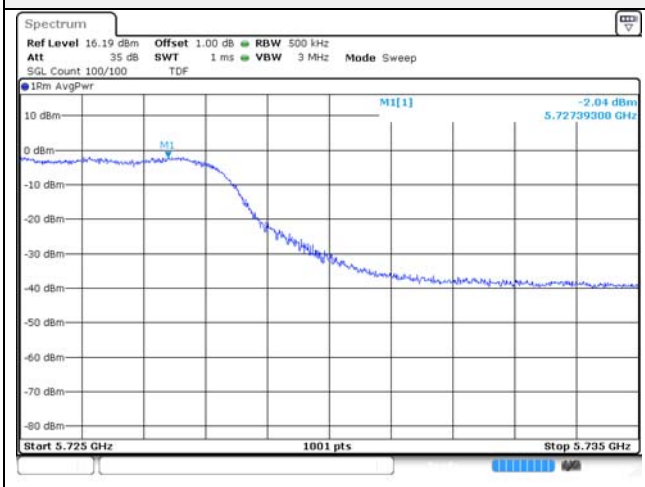
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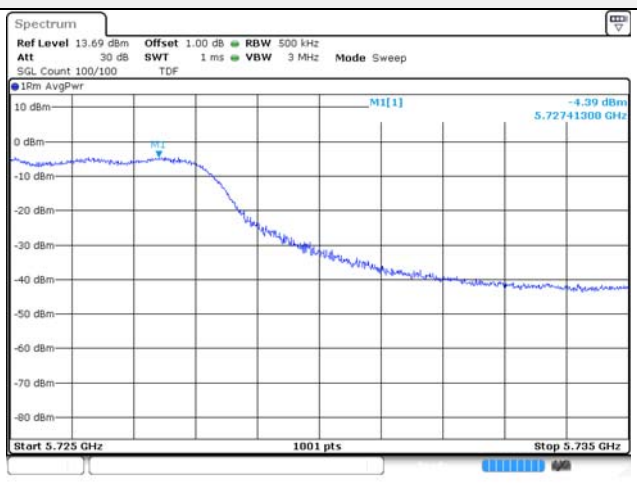
UNII-3 / 802.11ac VHT20



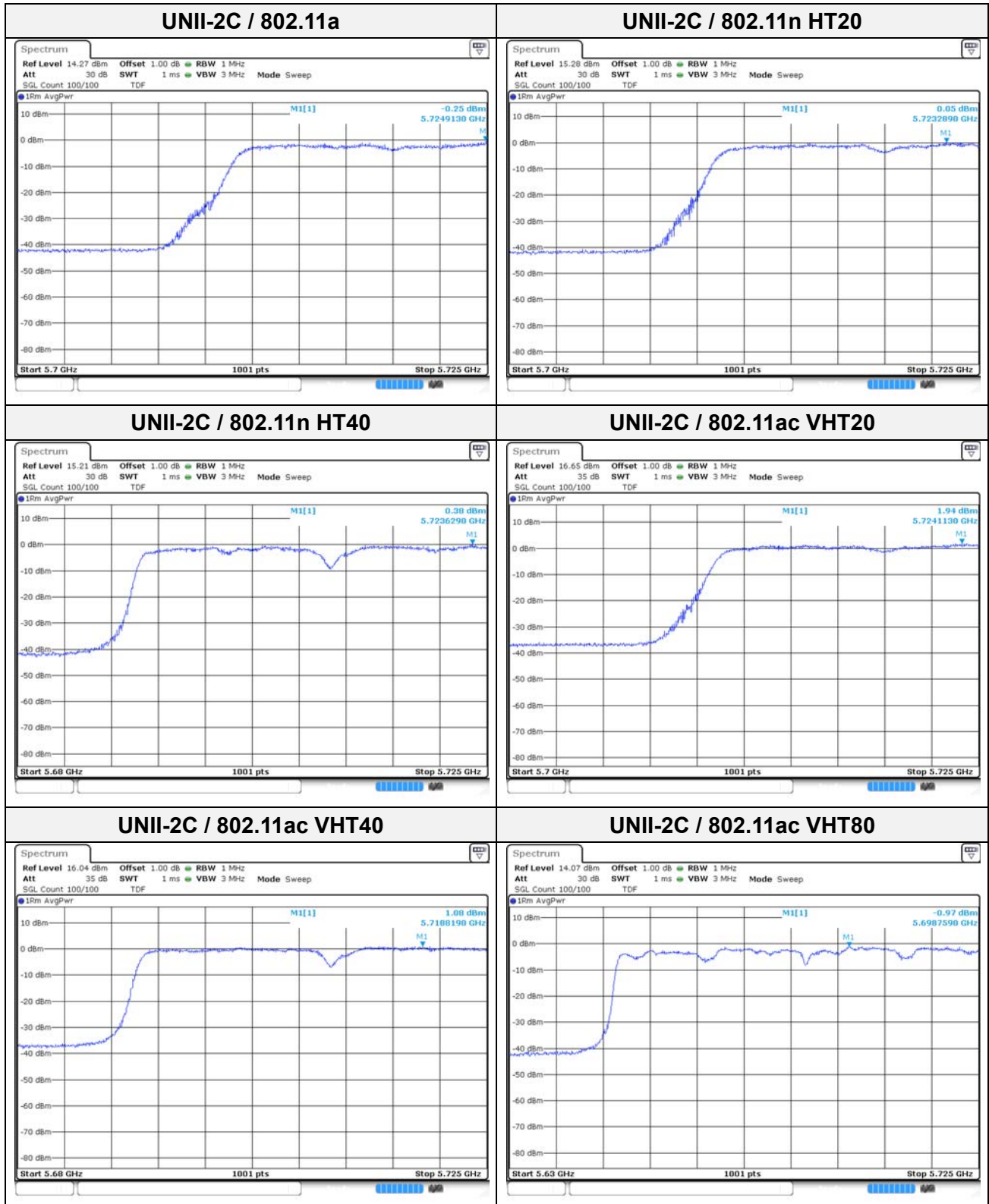
UNII-3 / 802.11ac VHT40



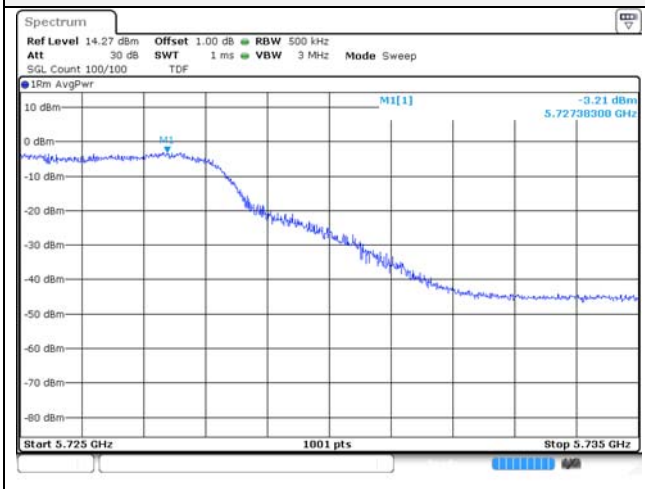
UNII-3 / 802.11ac VHT80



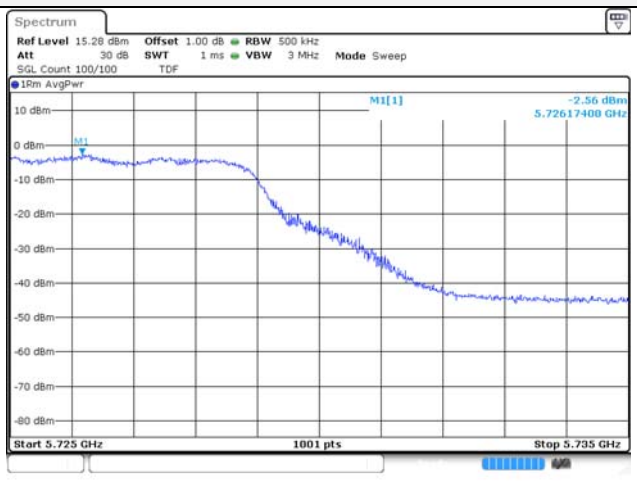
4TX MIMO ANT 0



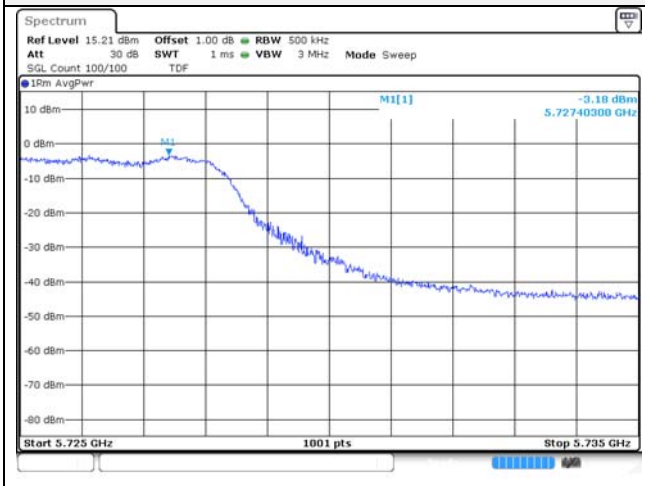
UNII-3 / 802.11a



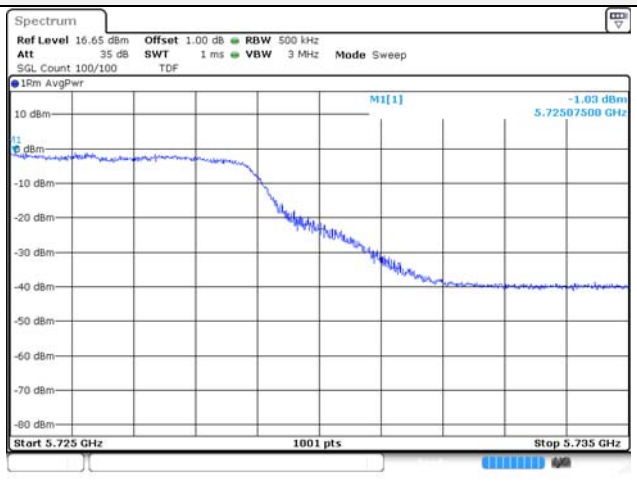
UNII-3 / 802.11n HT20



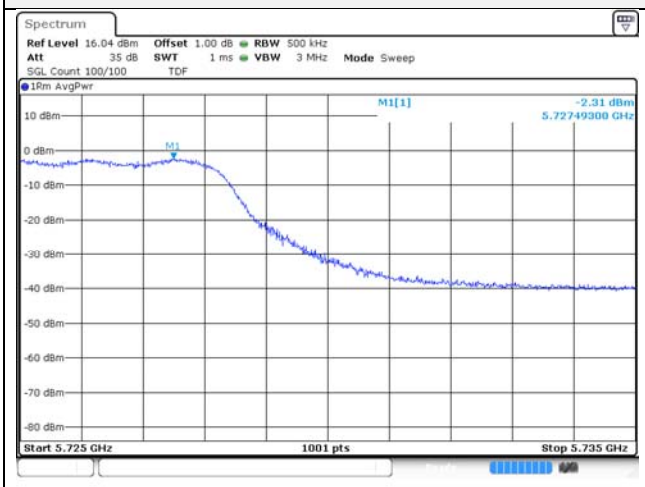
UNII-3 / 802.11n HT40



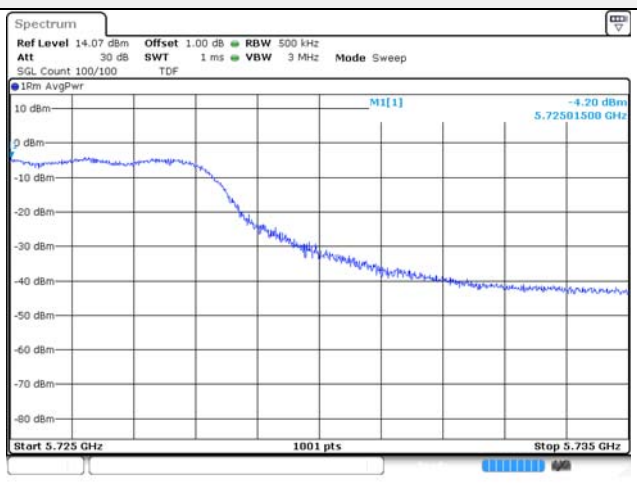
UNII-3 / 802.11ac VHT20



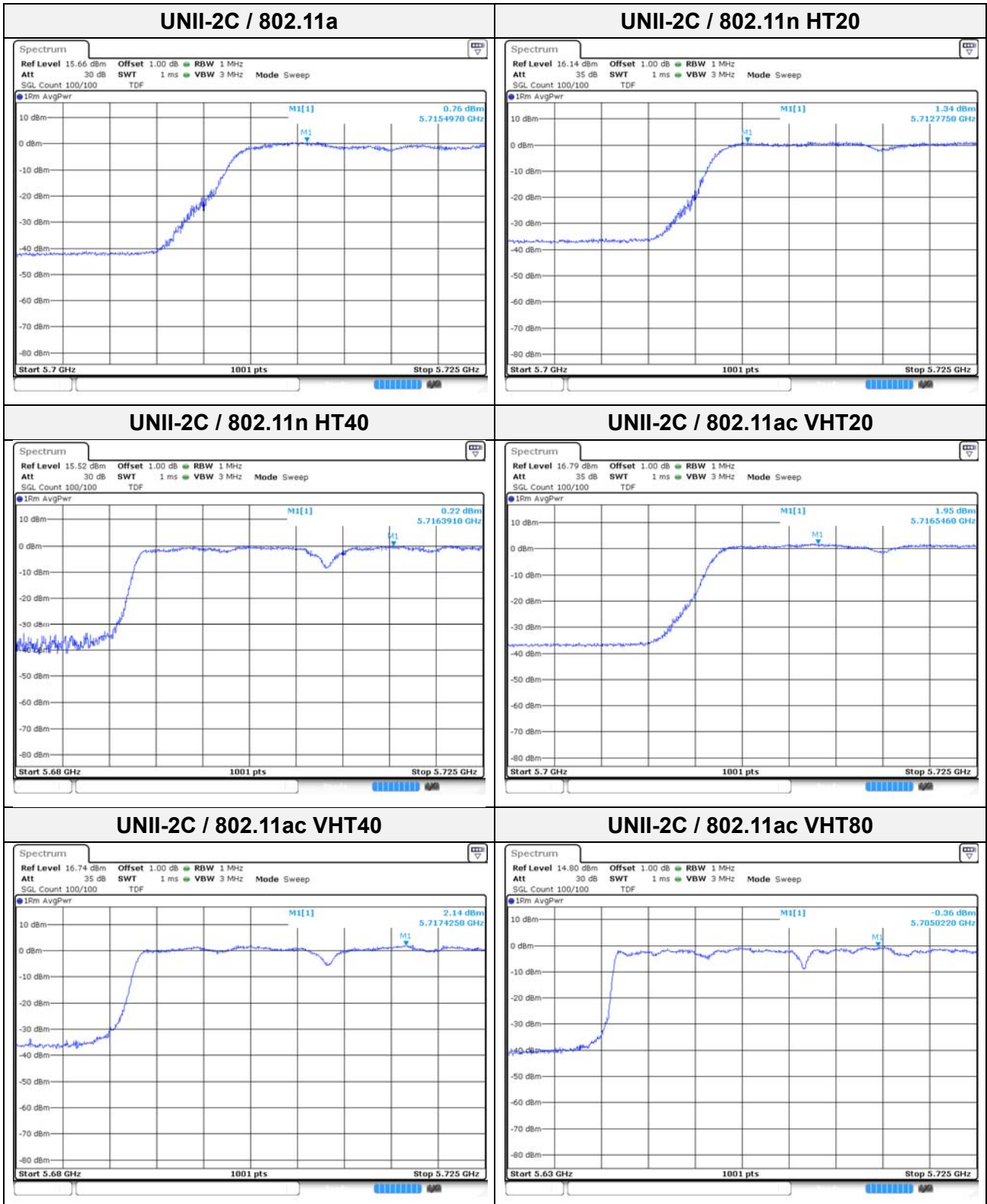
UNII-3 / 802.11ac VHT40



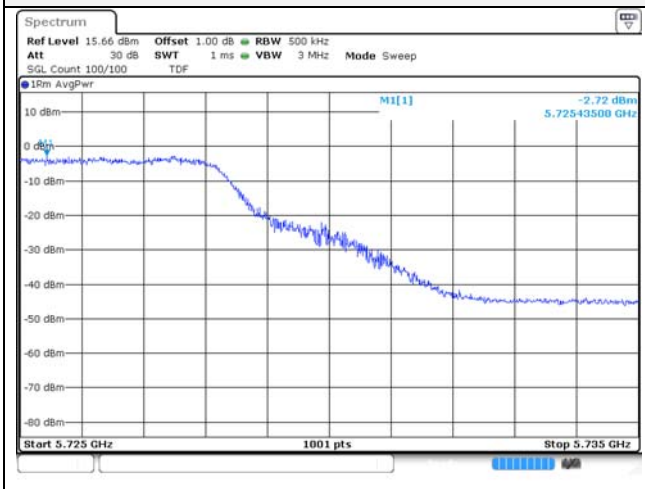
UNII-3 / 802.11ac VHT80



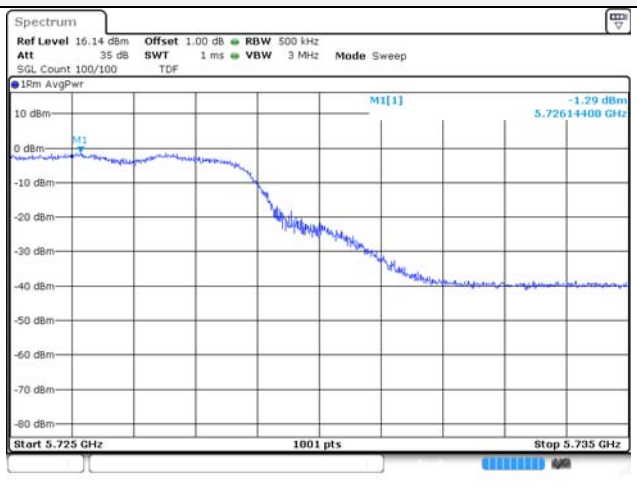
4TX MIMO ANT 1



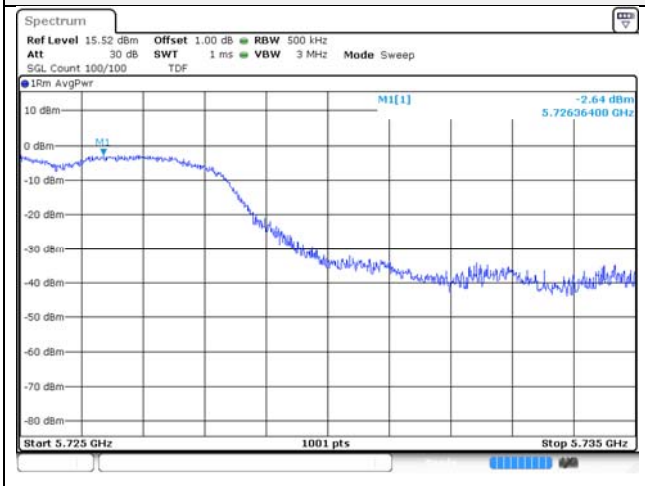
UNII-3 / 802.11a



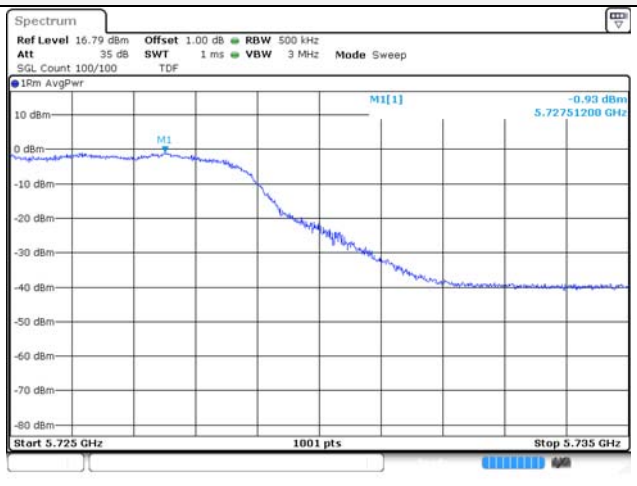
UNII-3 / 802.11n HT20



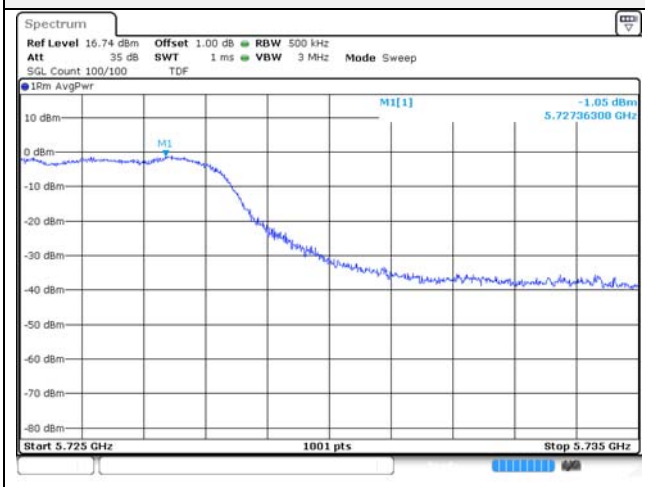
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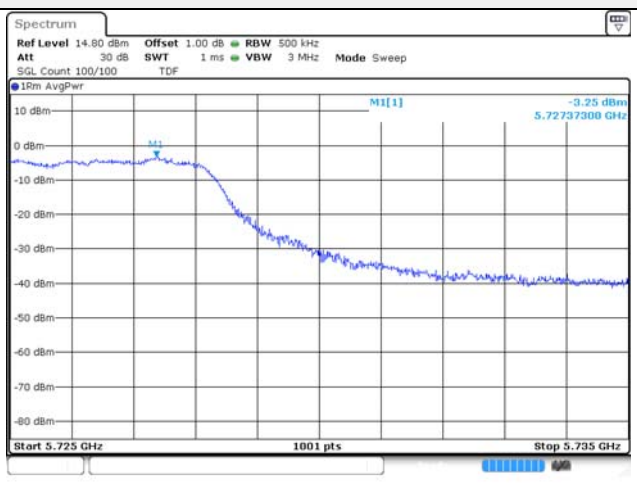
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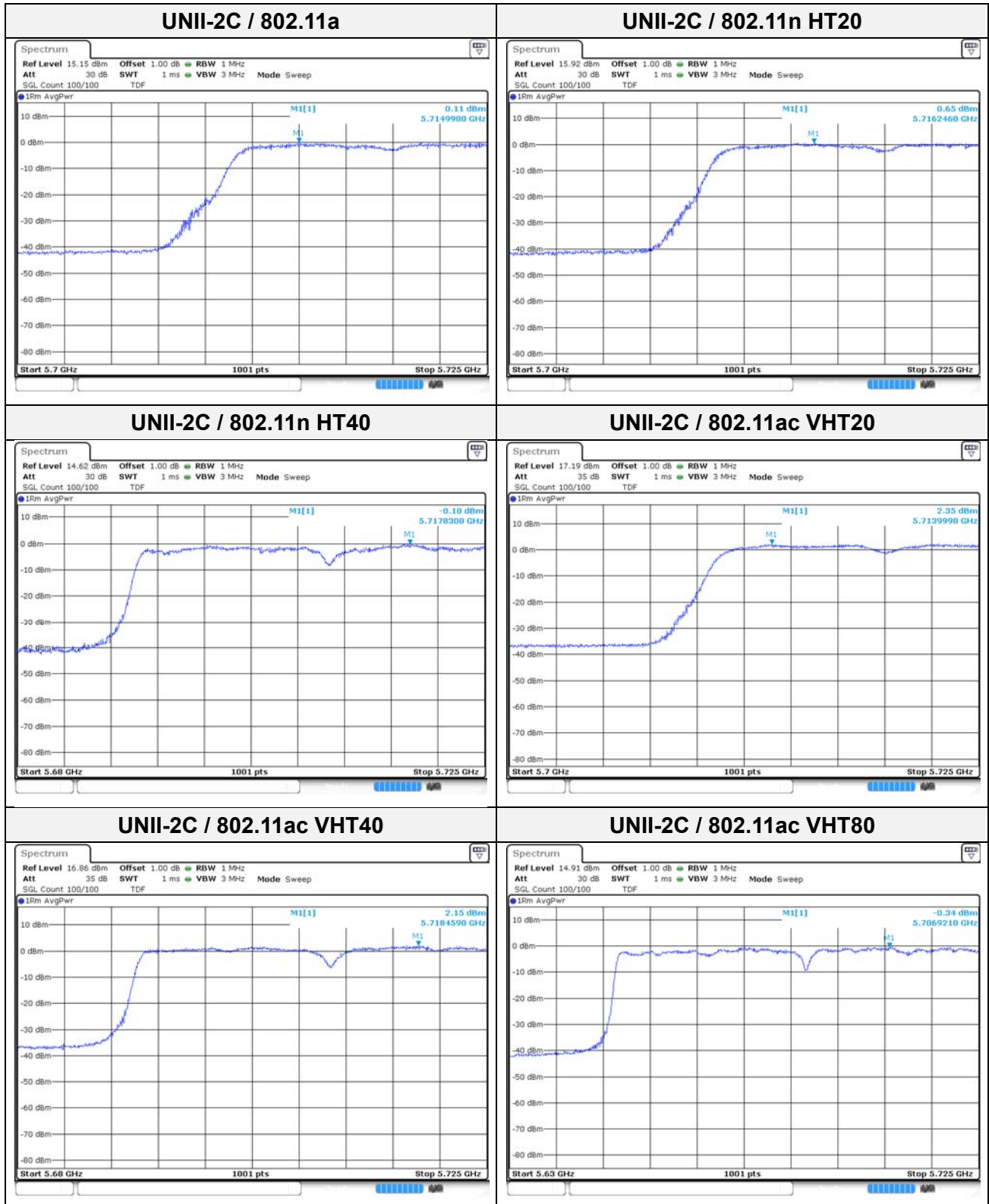
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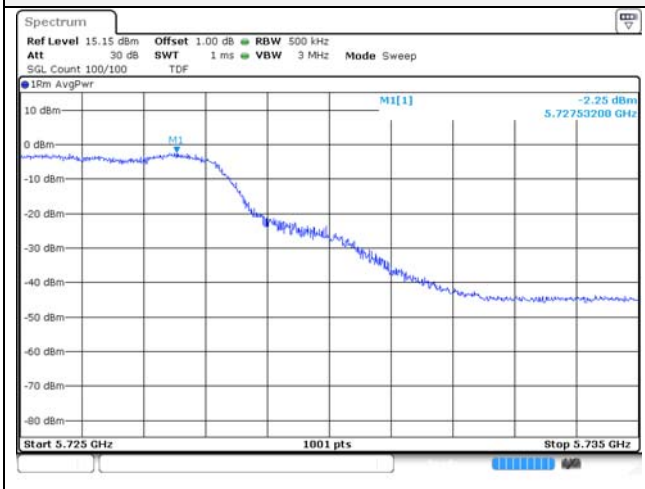
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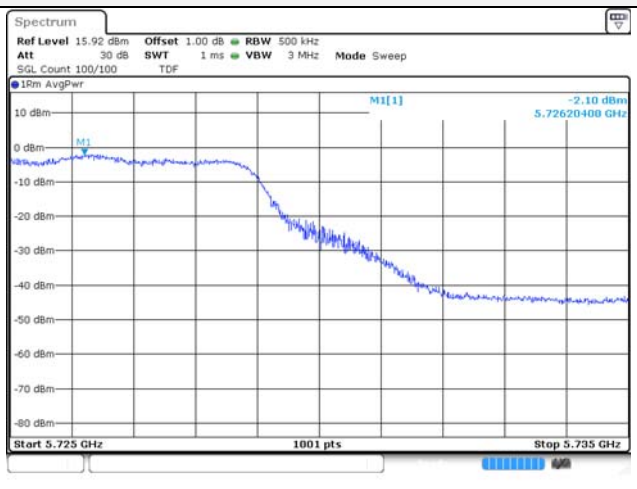
4TX MIMO ANT 2



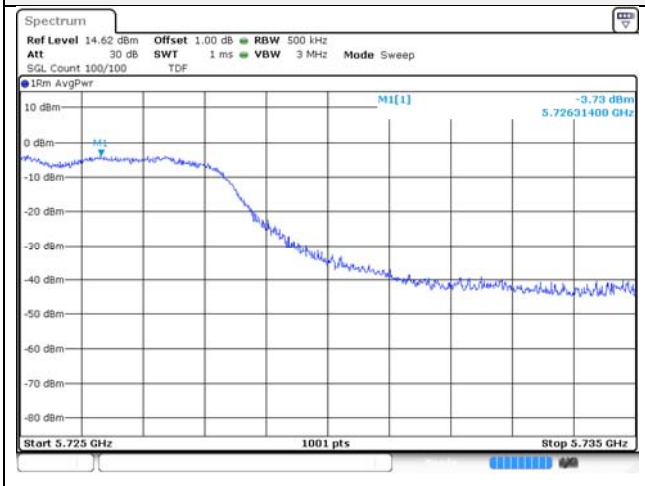
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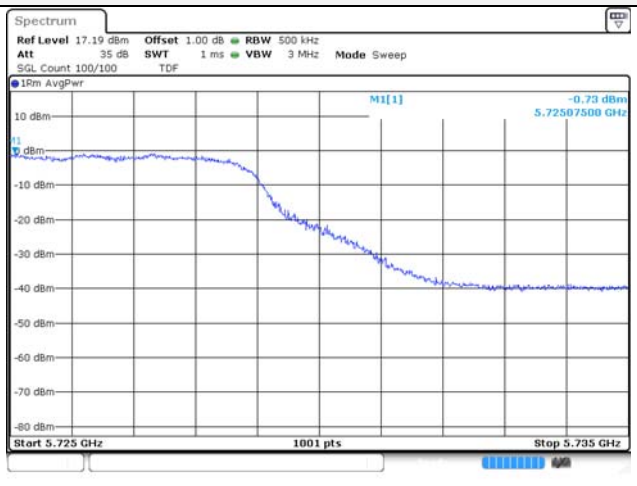
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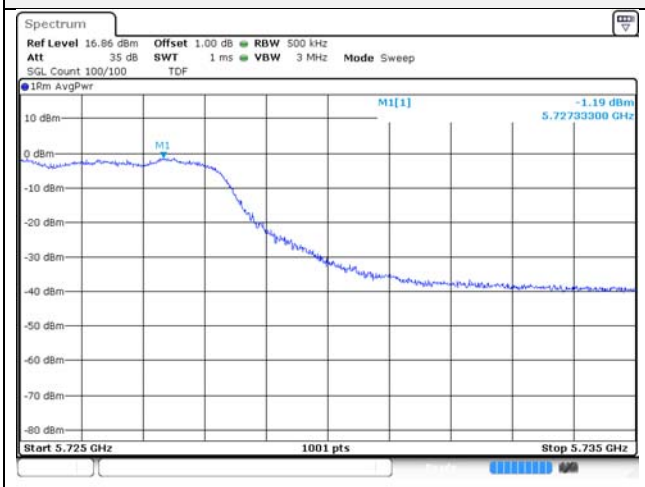
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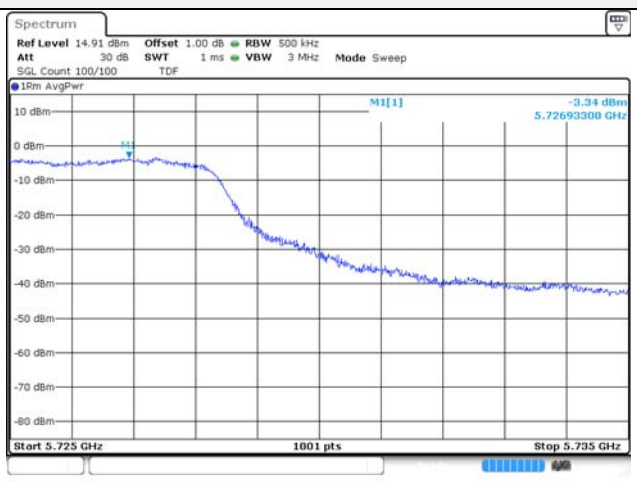
UNII-3 / 802.11ac VHT20



UNII-3 / 802.11ac VHT40



UNII-3 / 802.11ac VHT80



4TX MIMO ANT 3

