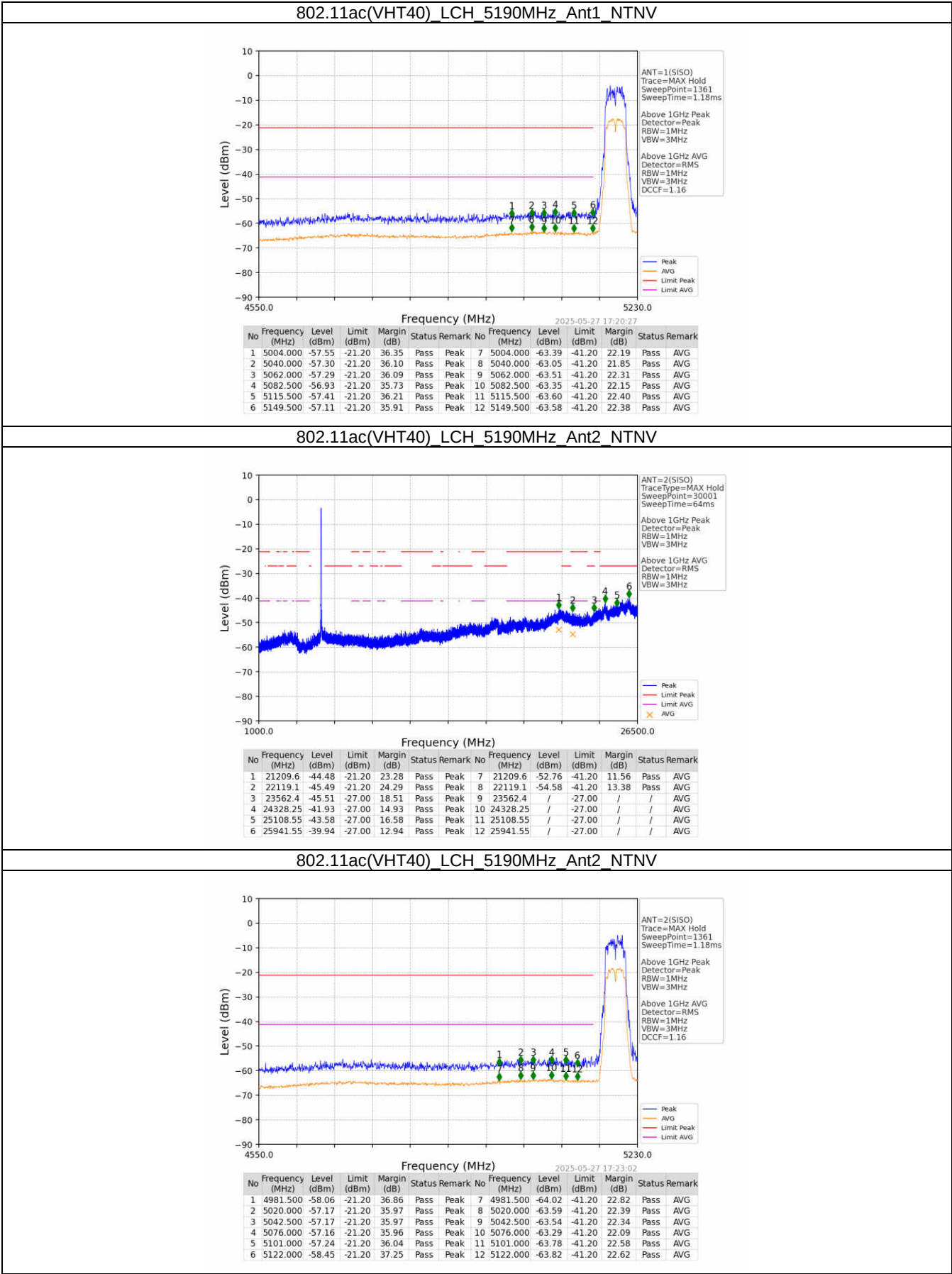
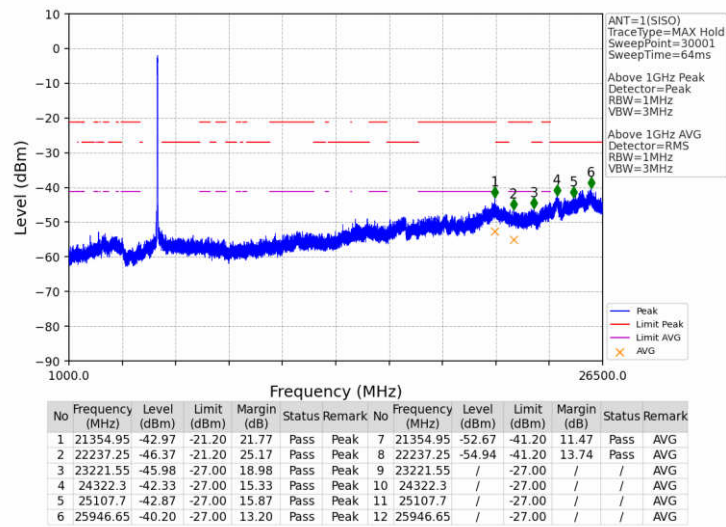
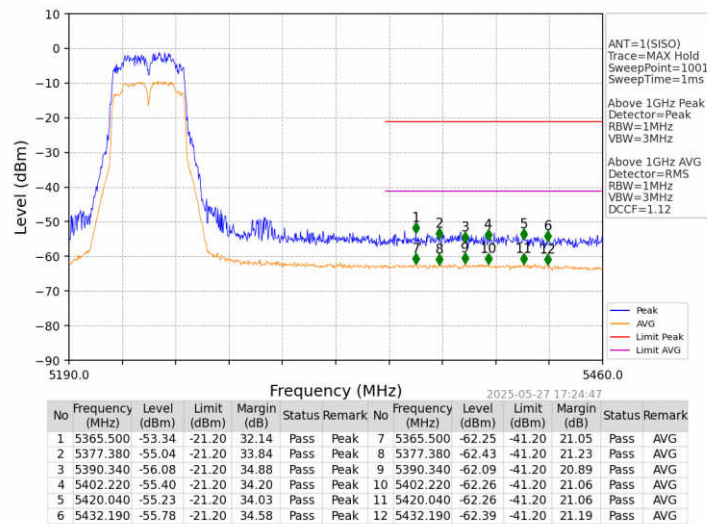




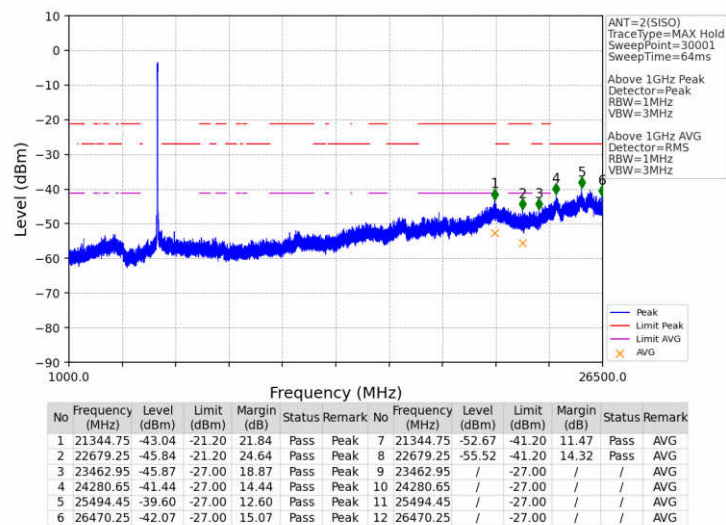
802.11ac(VHT40) HCH 5230MHz Ant1 NTN

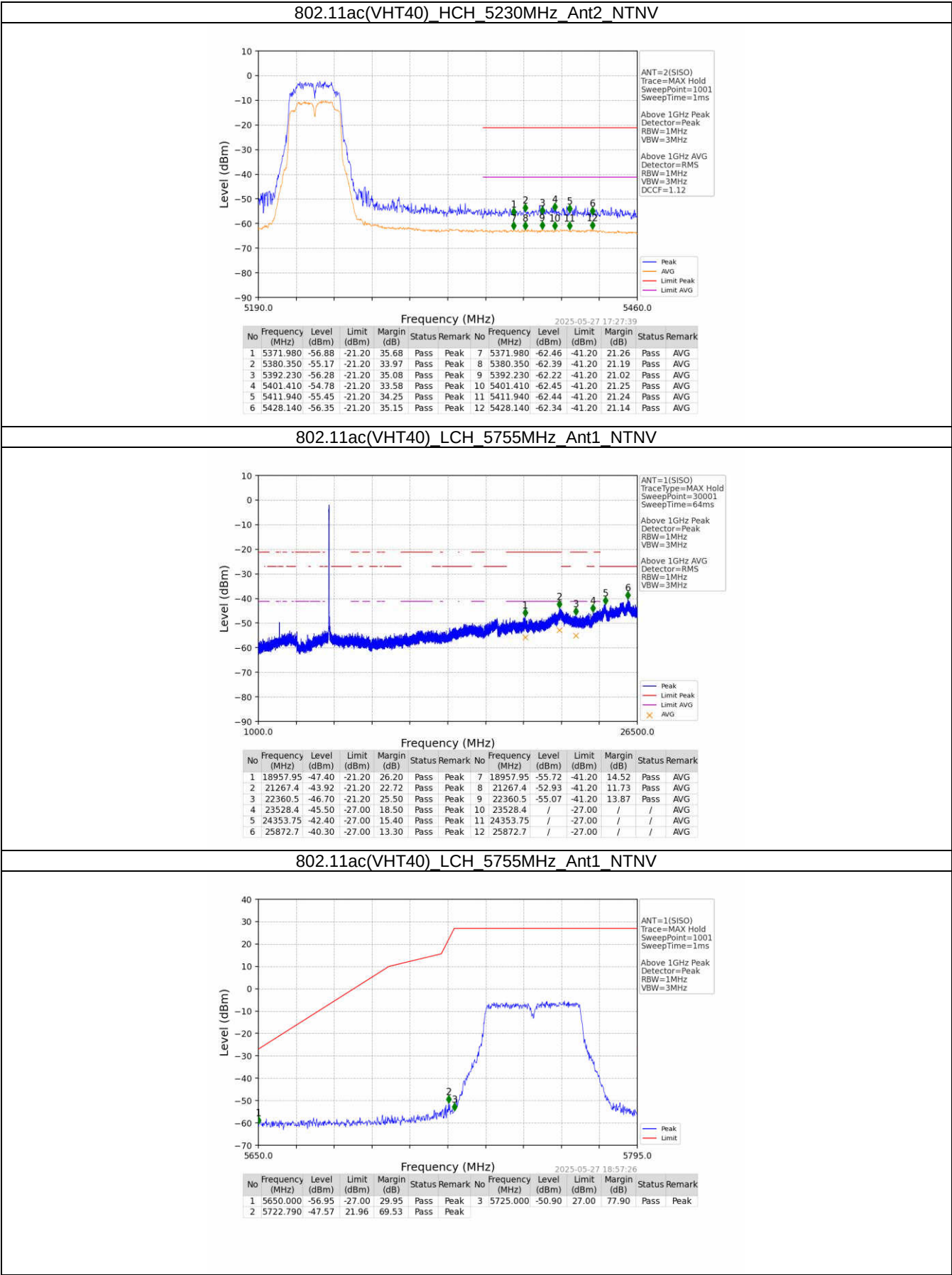


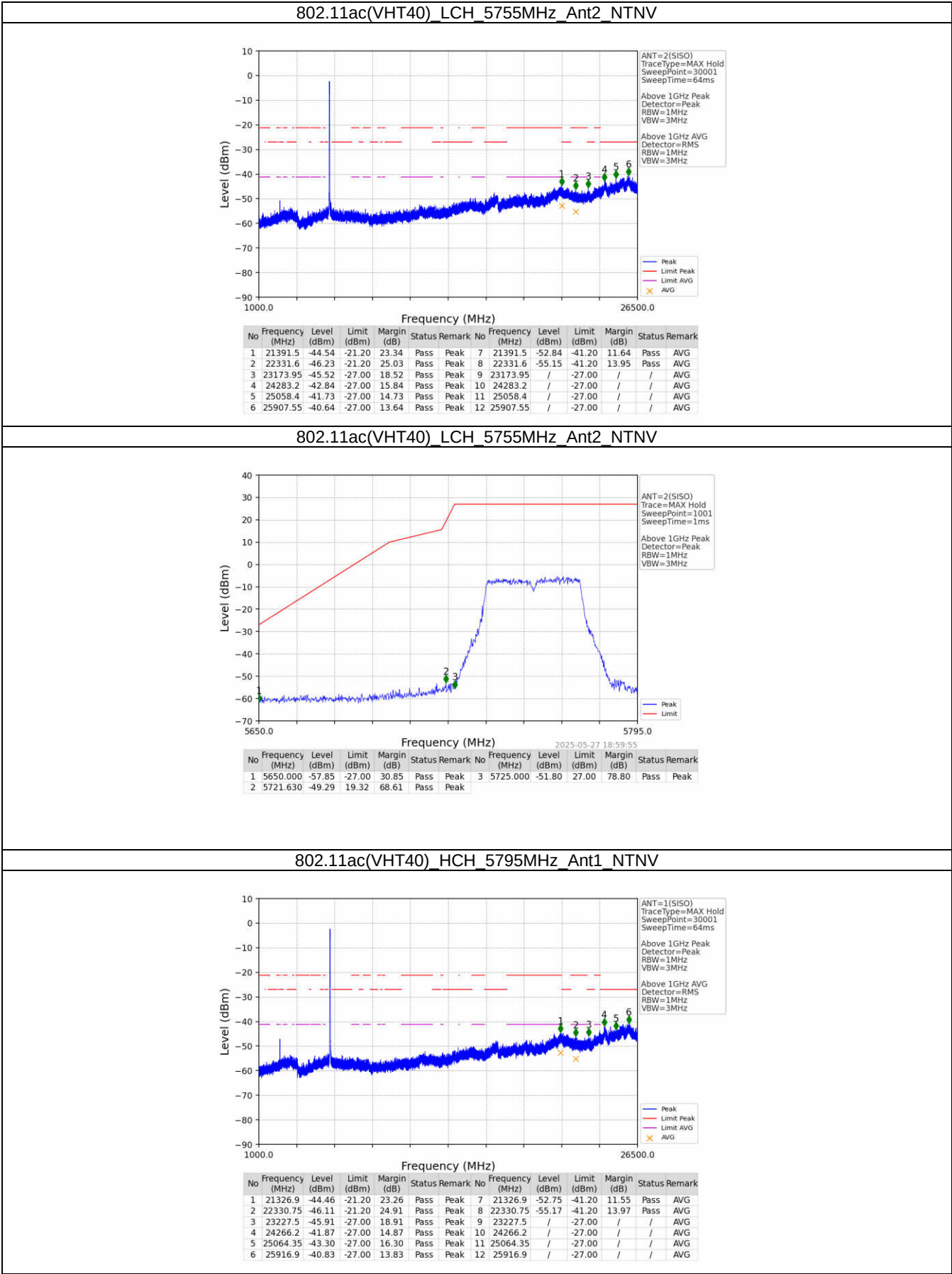
802.11ac(VHT40) HCH 5230MHz Ant1 NTN

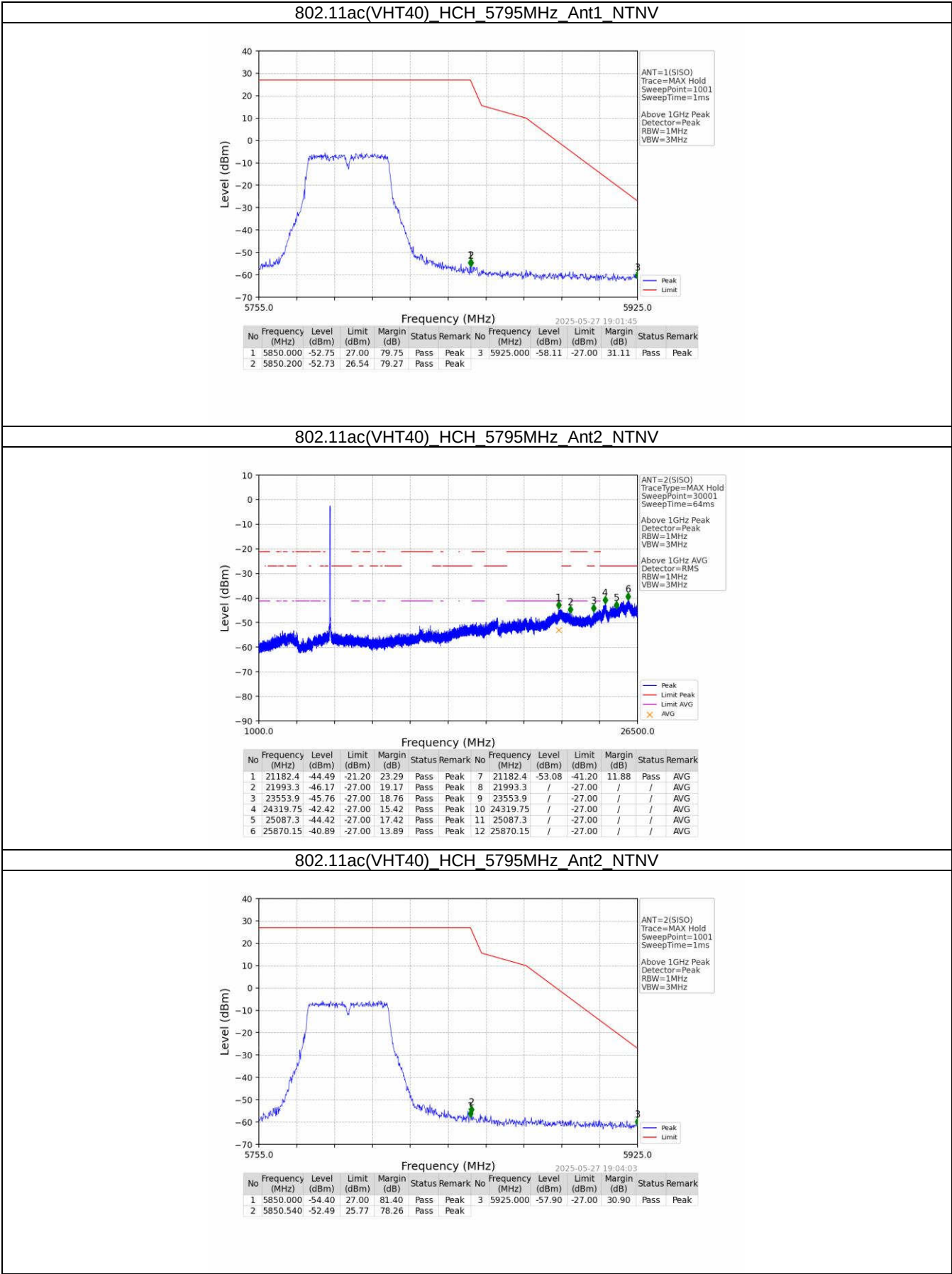


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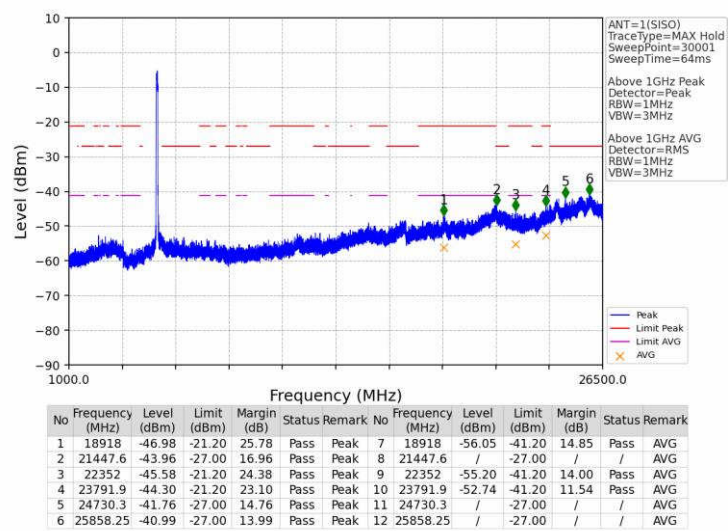




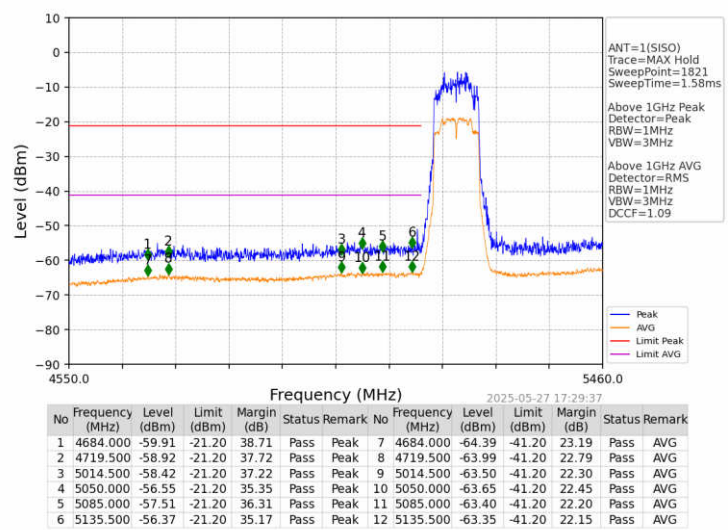




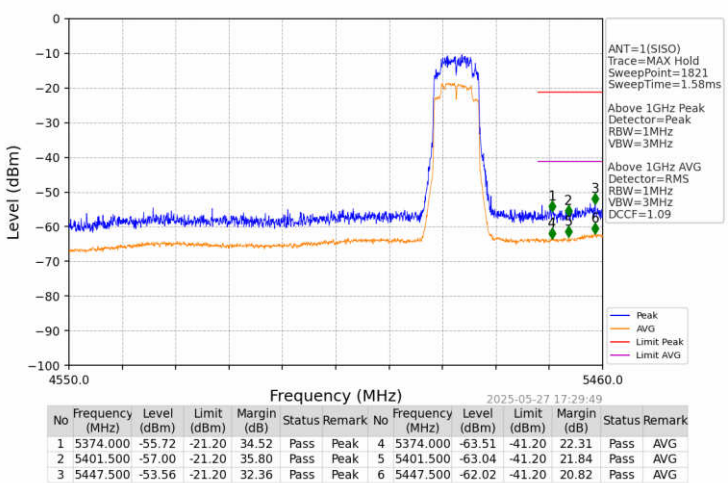
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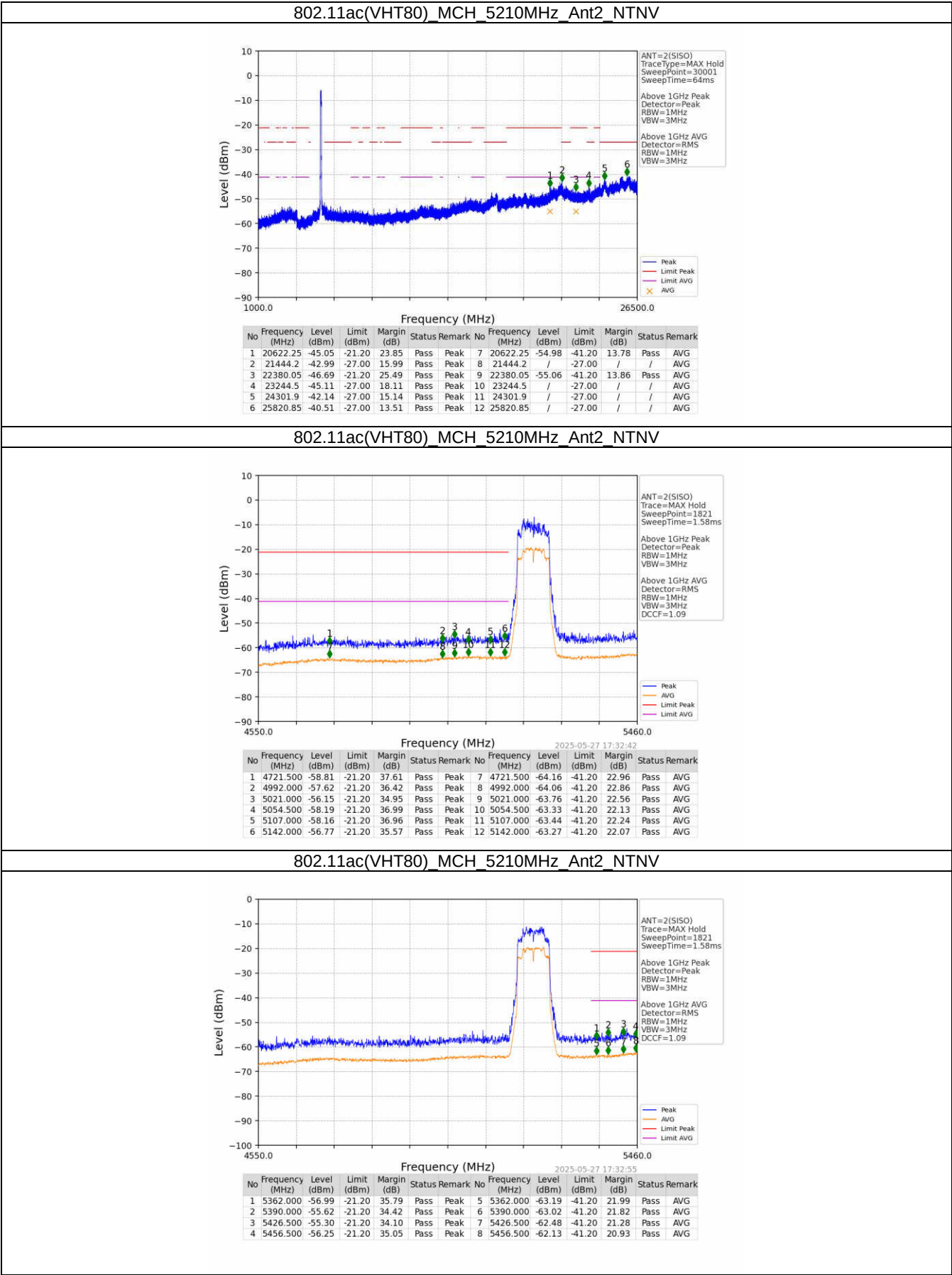


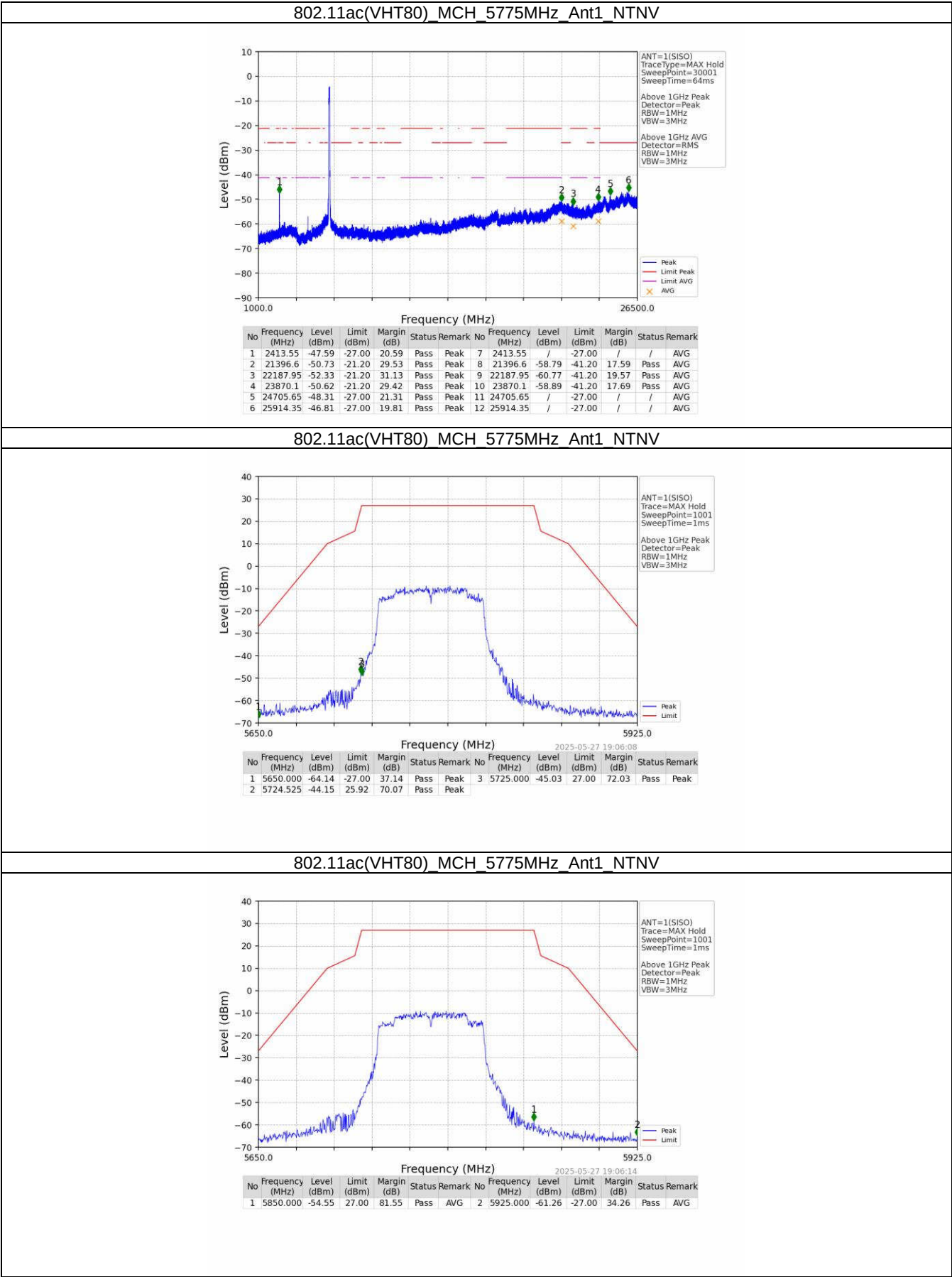
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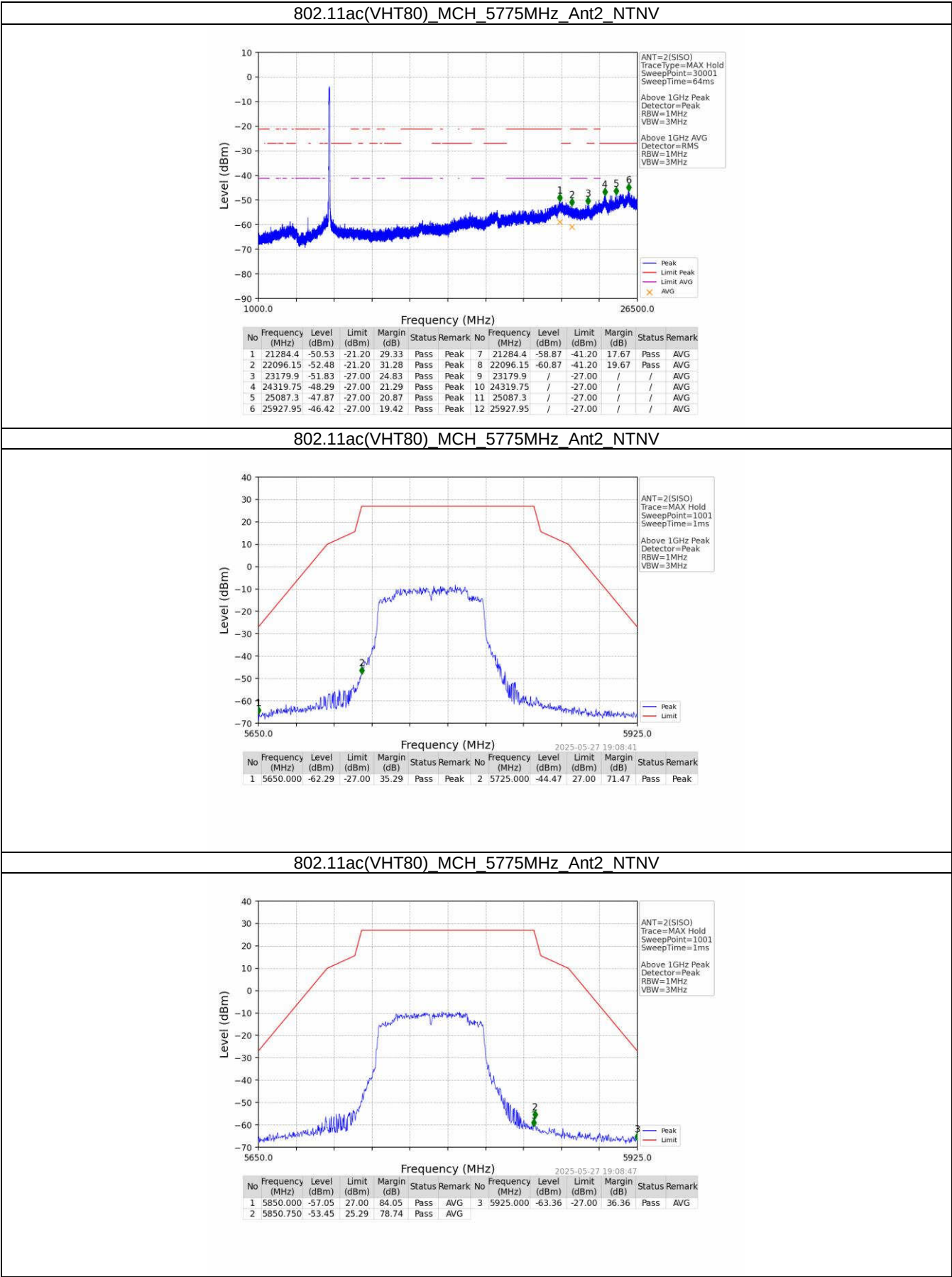


802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

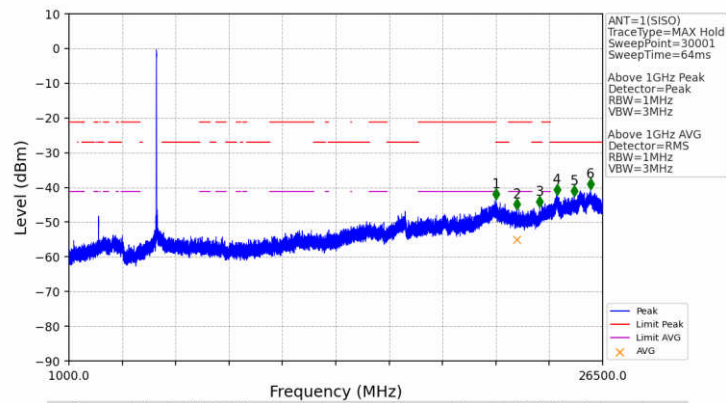




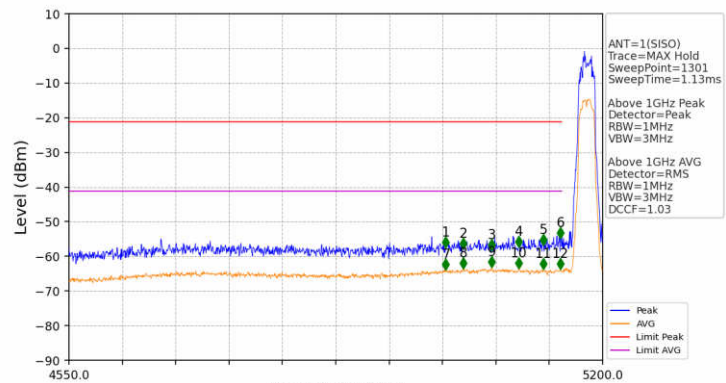




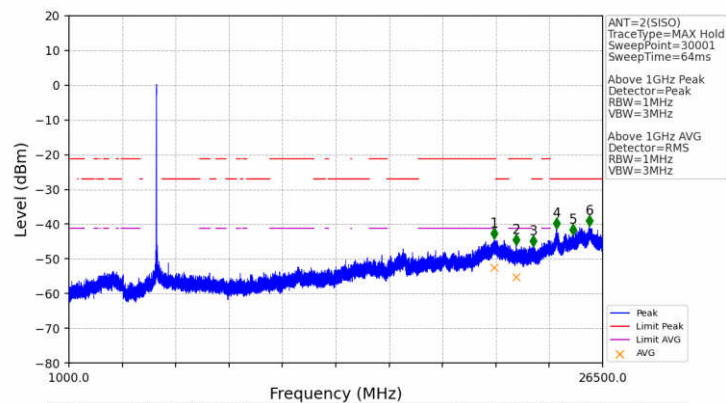
802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTVN

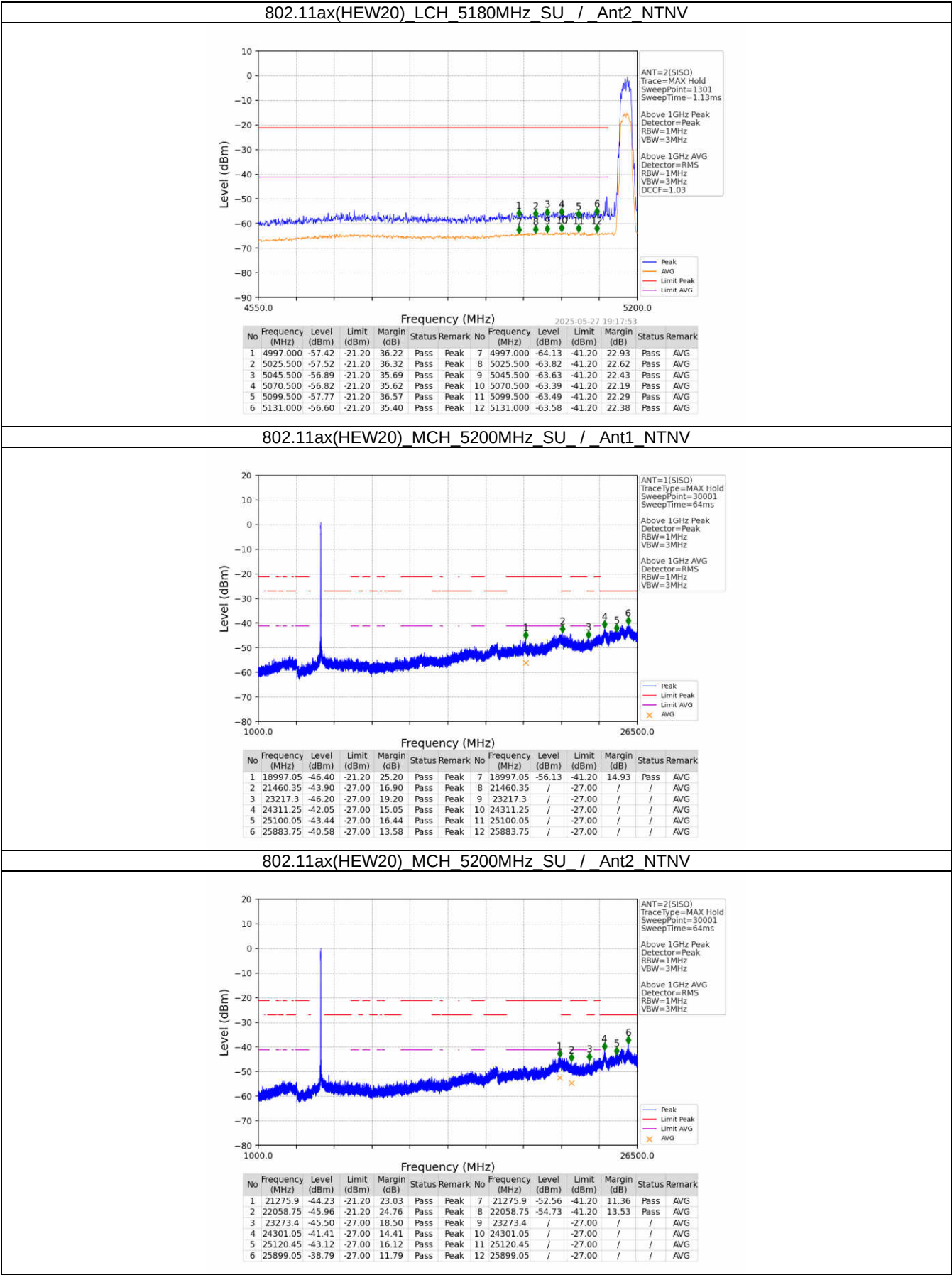


802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTVN

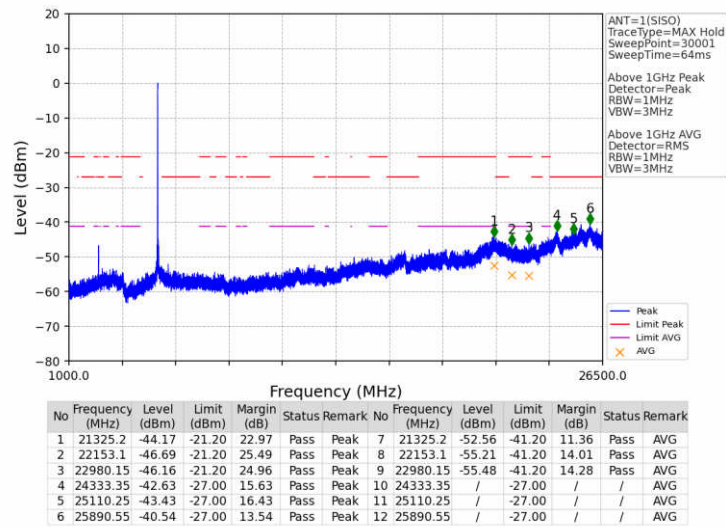


802.11ax(HEW20) LCH 5180MHz SU / Ant2 NTVN

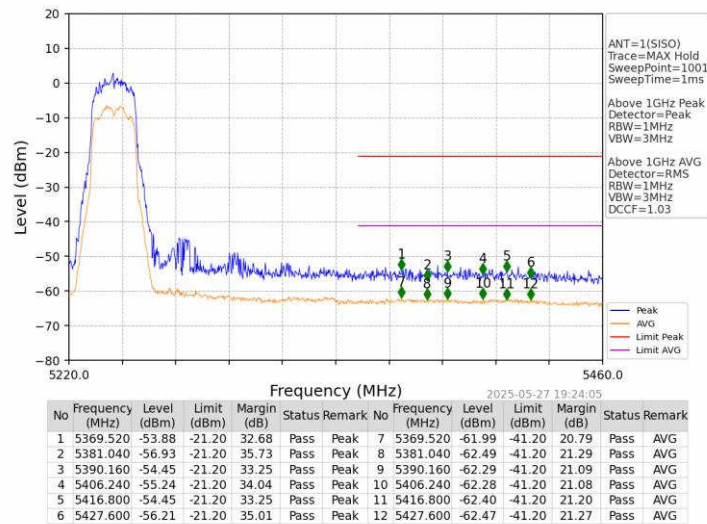




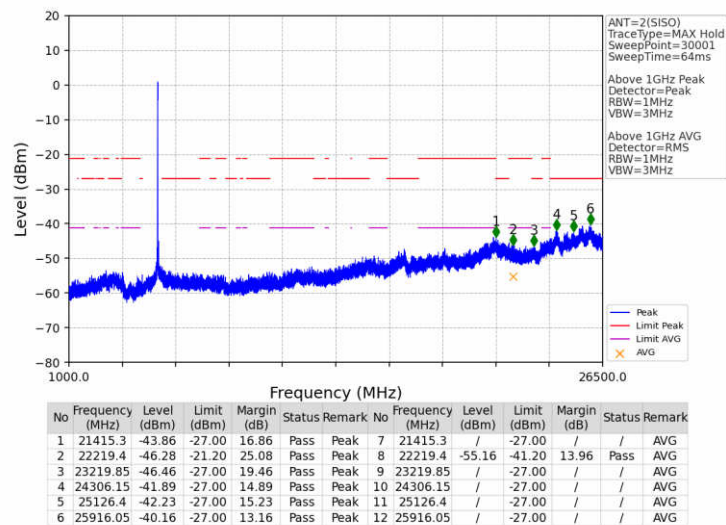
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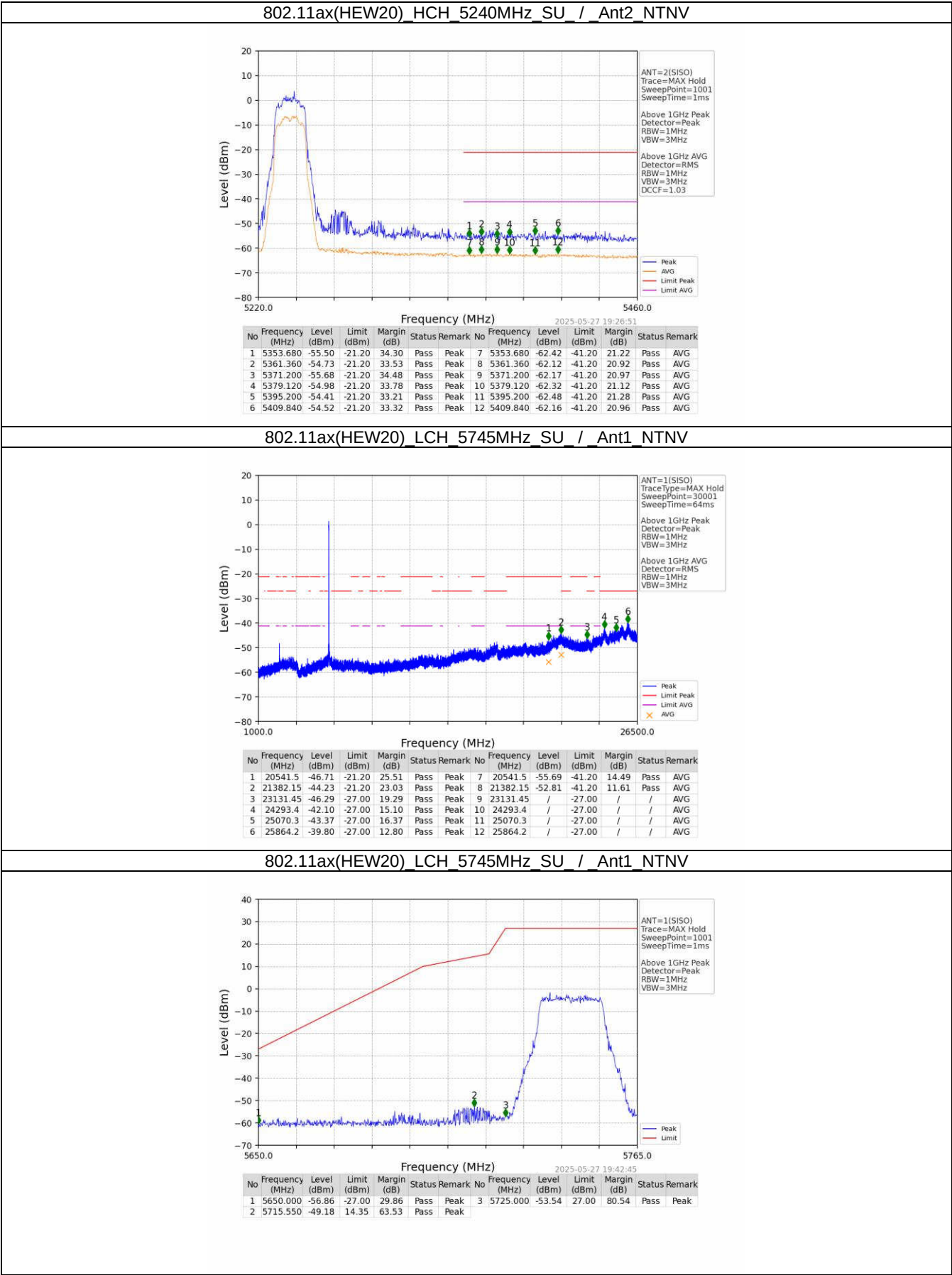


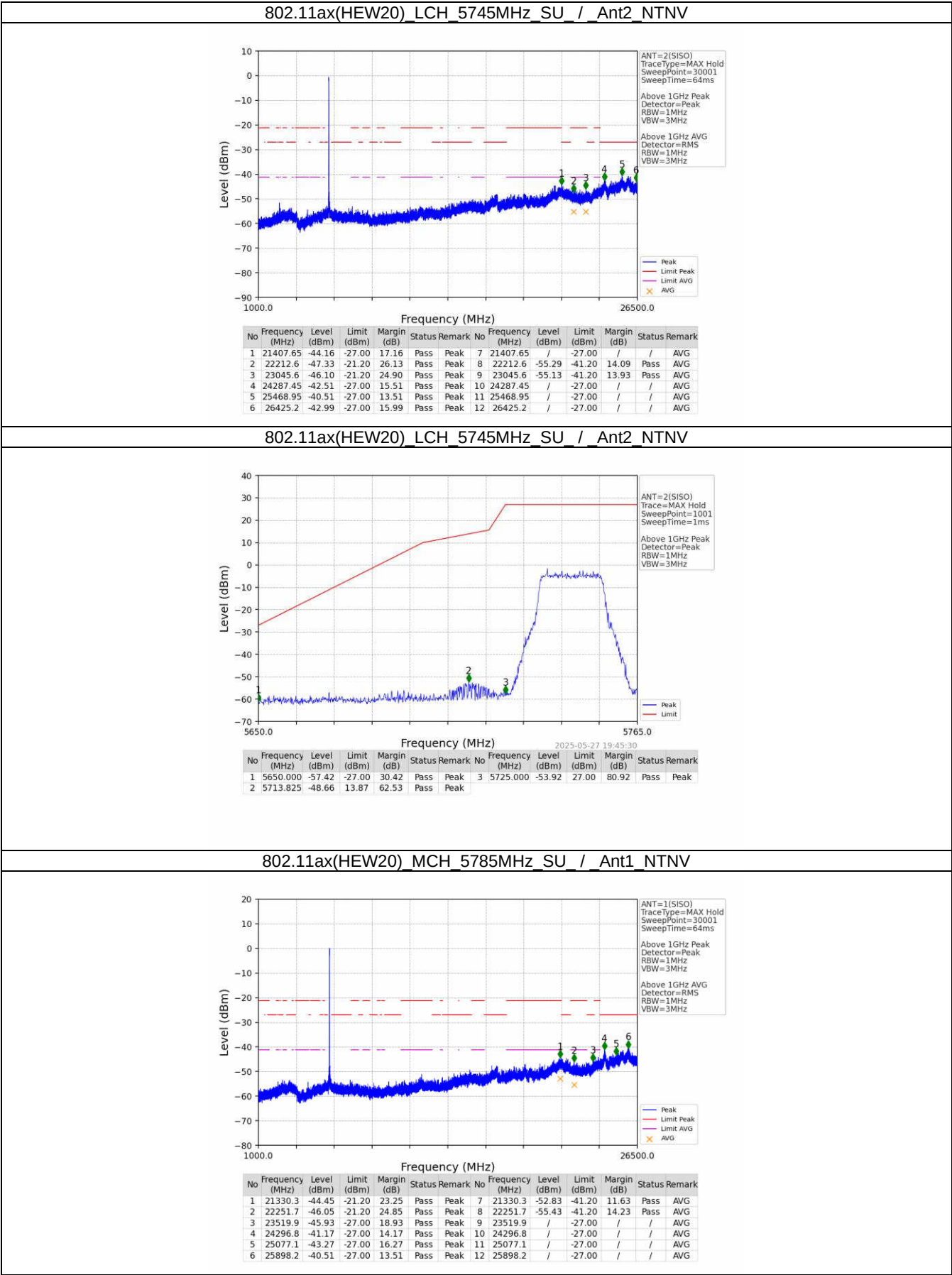
802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTN

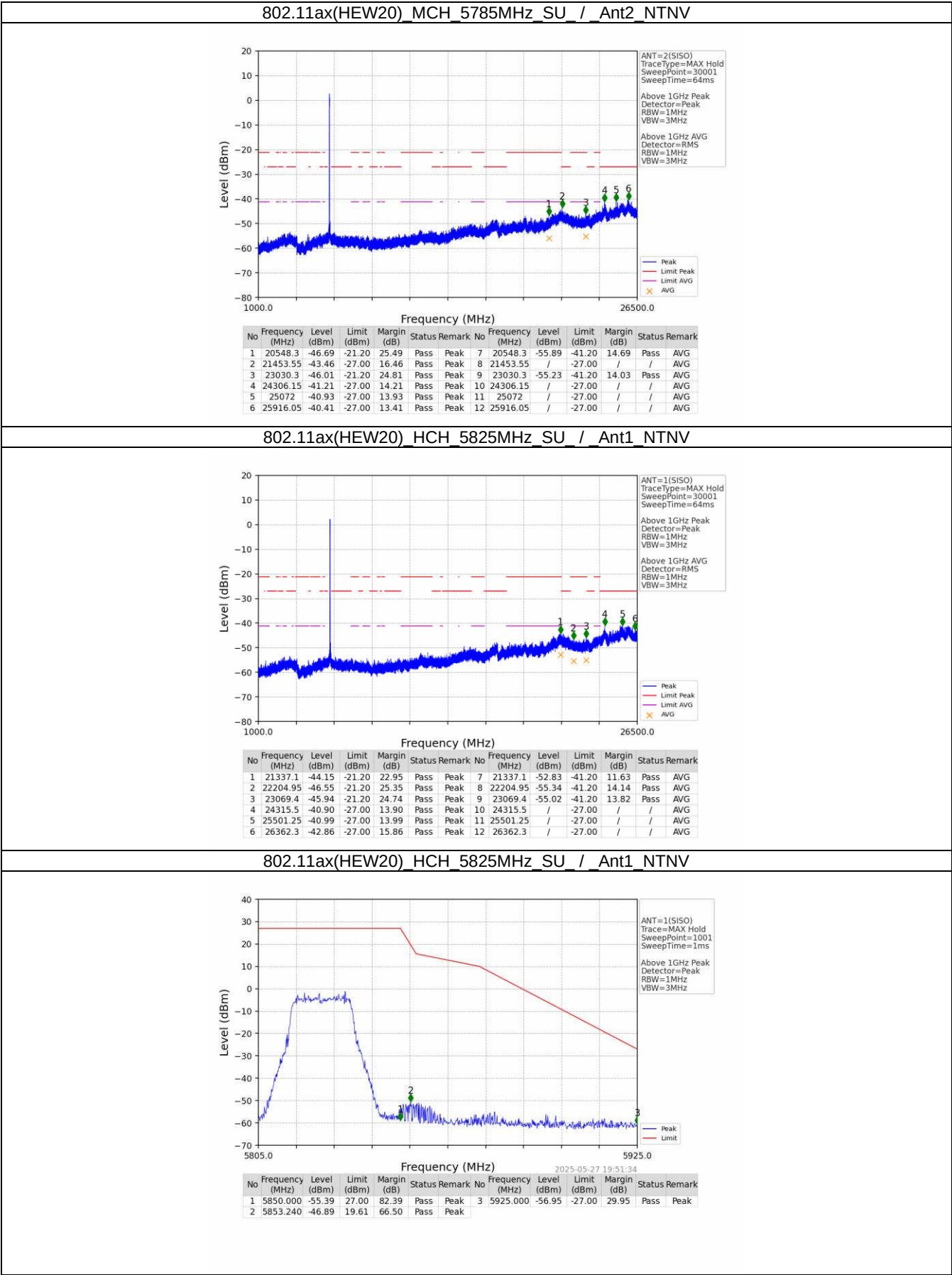


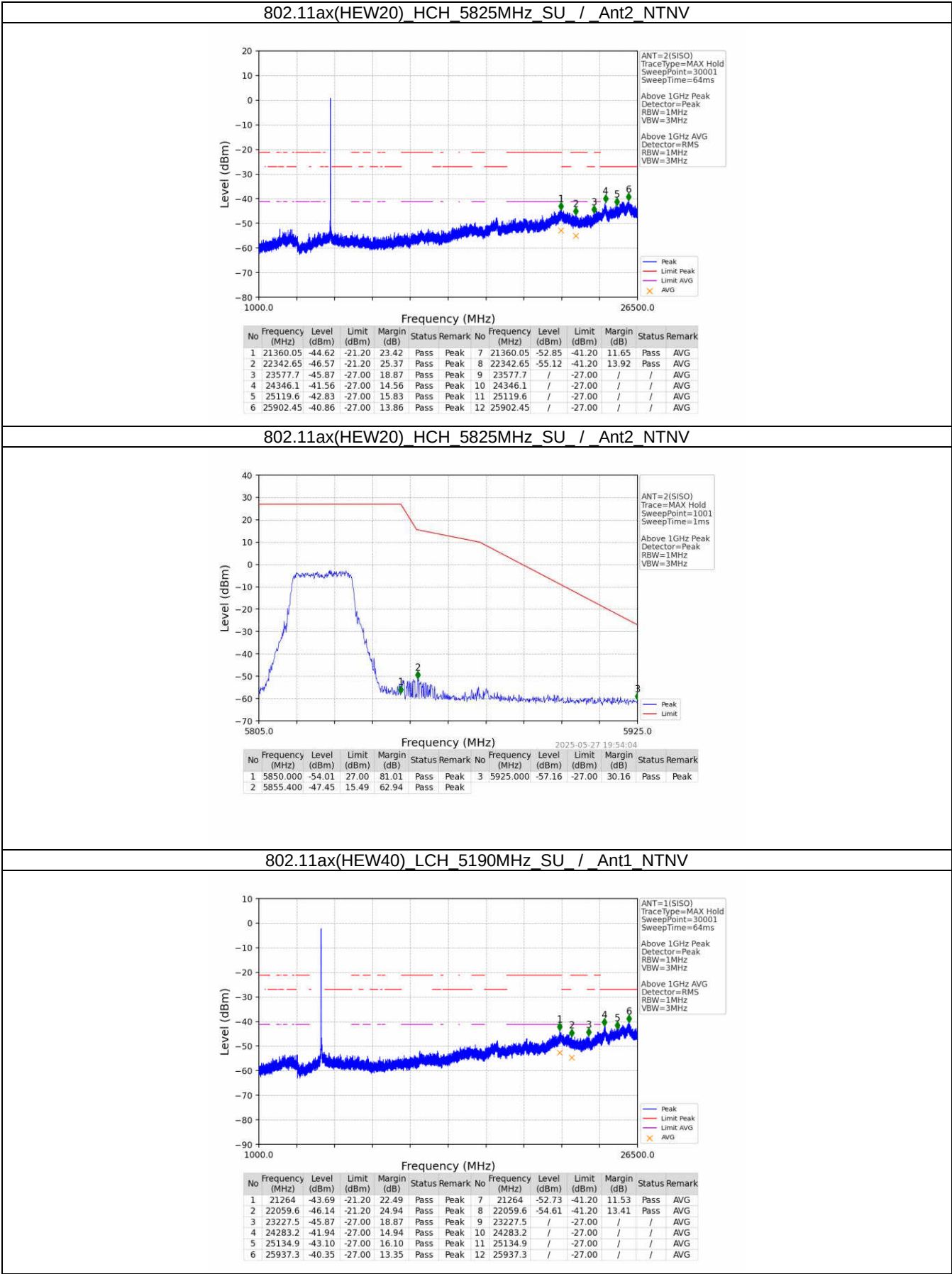
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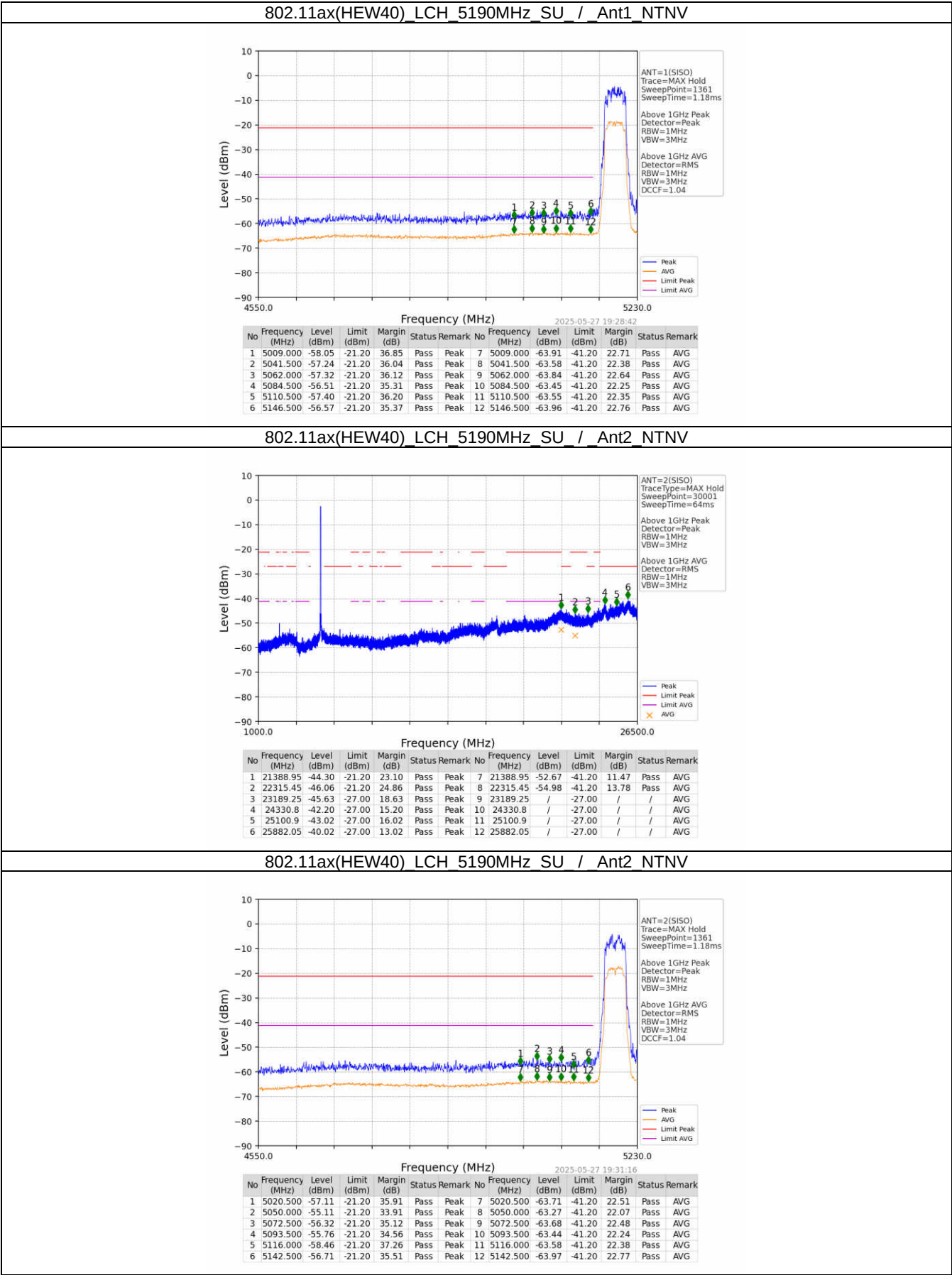




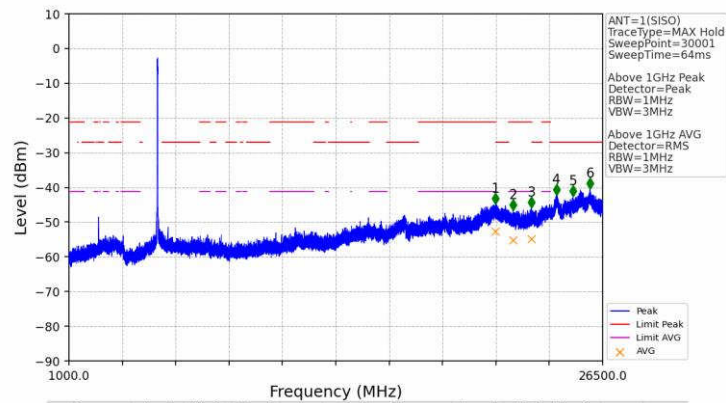






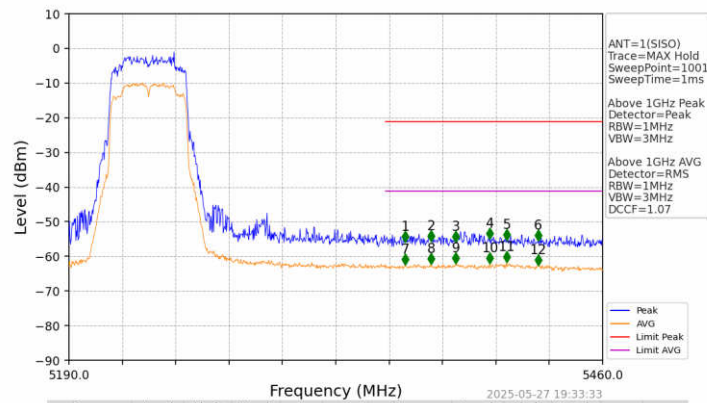


802.11ax(HEW40) HCH 5230MHz SU / Ant1 NTN



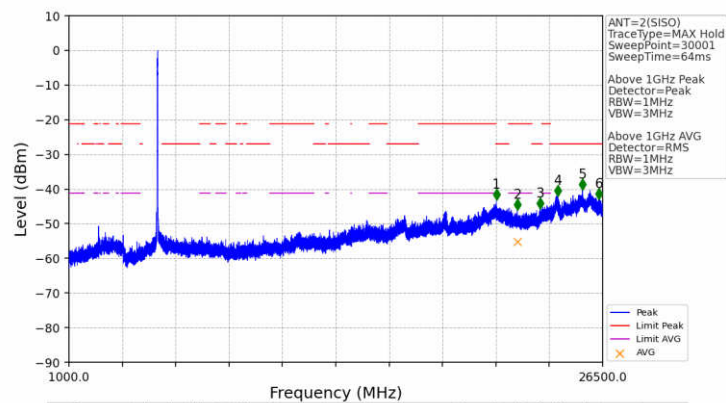
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark
1	21379.6	-44.80	-21.20	23.60	Pass Peak	7	21379.6	-52.72	-41.20	11.52	Pass AVG
2	22216	-46.59	-21.20	25.39	Pass Peak	8	22216	-55.20	-41.20	14.00	Pass AVG
3	23092.35	-45.93	-21.20	24.73	Pass Peak	9	23092.35	-54.81	-41.20	13.61	Pass AVG
4	24295.95	-42.20	-27.00	15.20	Pass Peak	10	24295.95	/	-27.00	/	AVG
5	25096.65	-42.56	-27.00	15.56	Pass Peak	11	25096.65	/	-27.00	/	AVG
6	25908.4	-40.33	-27.00	13.33	Pass Peak	12	25908.4	/	-27.00	/	AVG

802.11ax(HEW40) HCH 5230MHz SU / Ant1 NTN

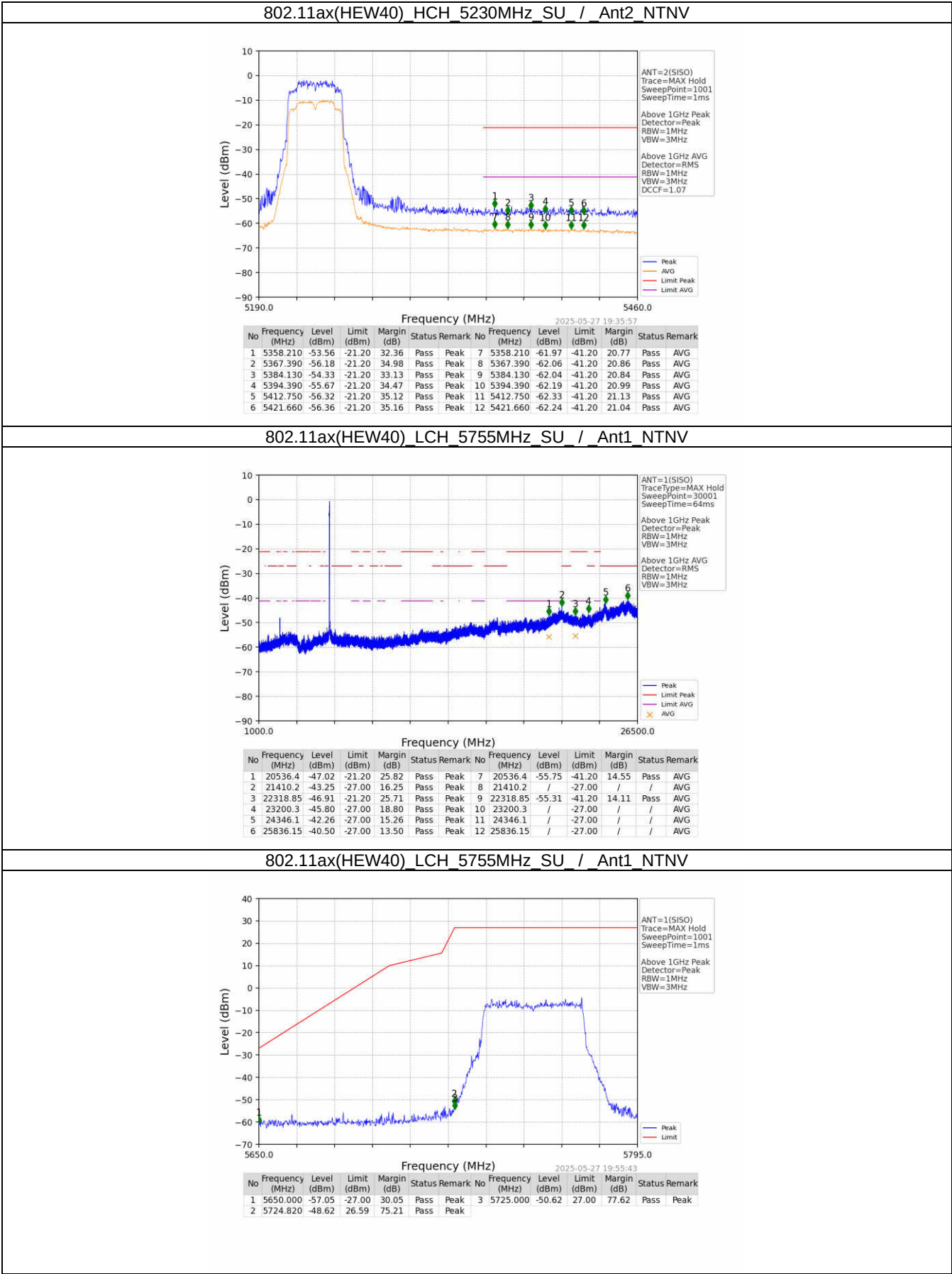


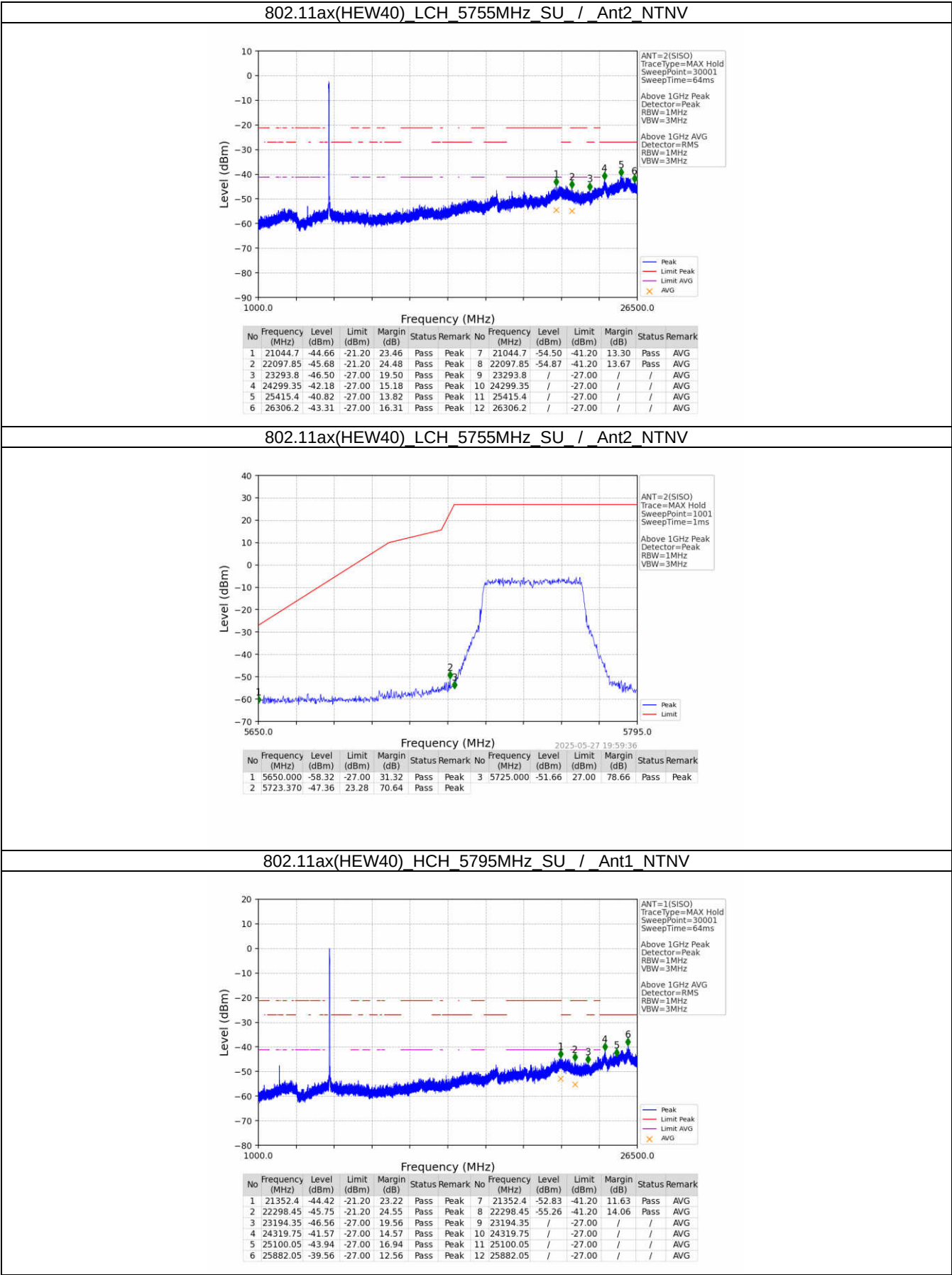
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark
1	5360.100	-55.84	-21.20	34.64	Pass Peak	7	5360.100	-62.38	-41.20	21.18	Pass AVG
2	5373.330	-55.66	-21.20	34.46	Pass Peak	8	5373.330	-62.31	-41.20	21.11	Pass AVG
3	5385.750	-55.83	-21.20	34.63	Pass Peak	9	5385.750	-62.14	-41.20	20.94	Pass AVG
4	5403.030	-55.01	-21.20	33.81	Pass Peak	10	5403.030	-62.05	-41.20	20.85	Pass AVG
5	5411.400	-55.34	-21.20	34.14	Pass Peak	11	5411.400	-61.79	-41.20	20.59	Pass AVG
6	5427.330	-55.52	-21.20	34.32	Pass Peak	12	5427.330	-62.57	-41.20	21.37	Pass AVG

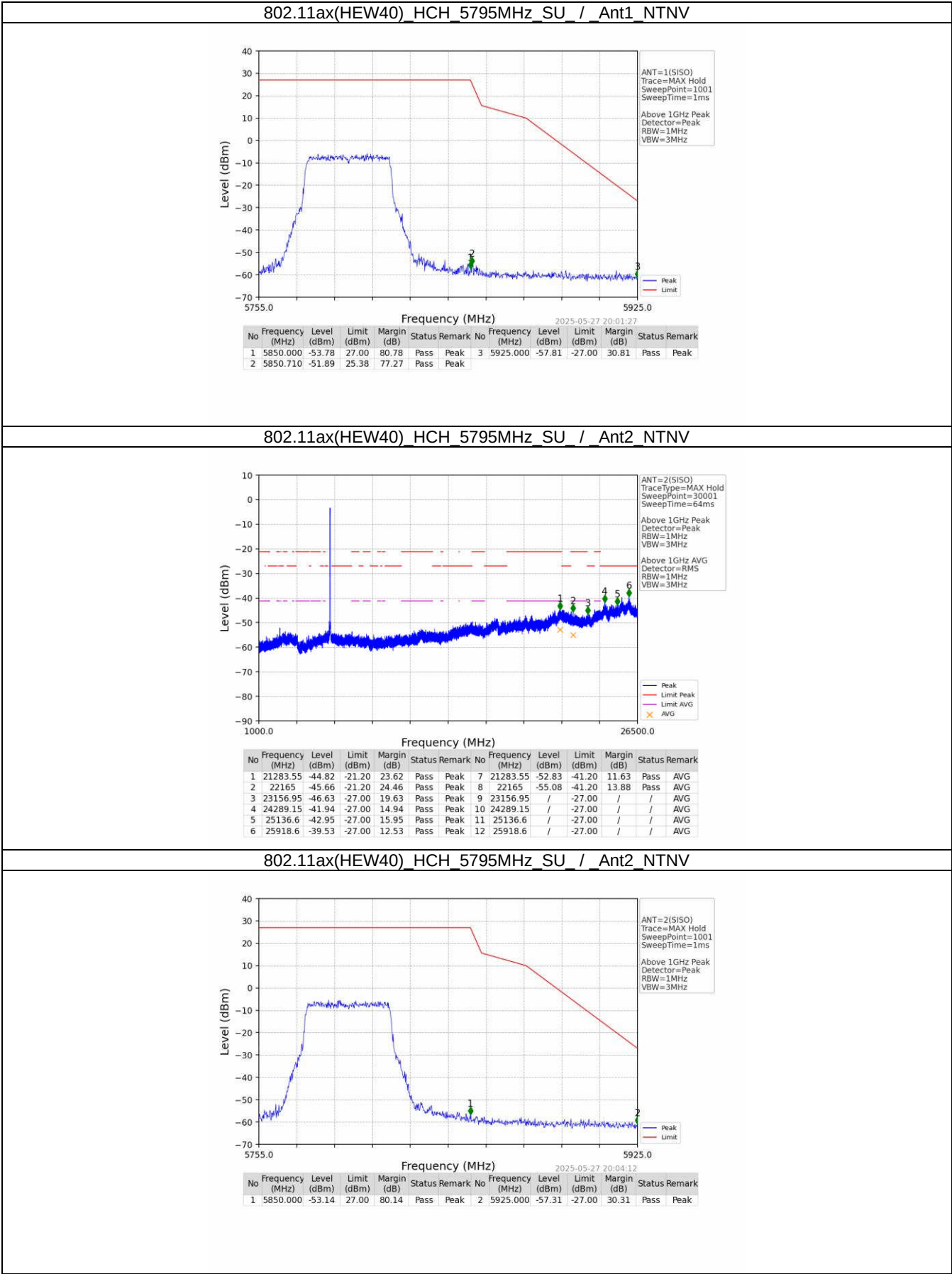
802.11ax(HEW40) HCH 5230MHz SU / Ant2 NTN

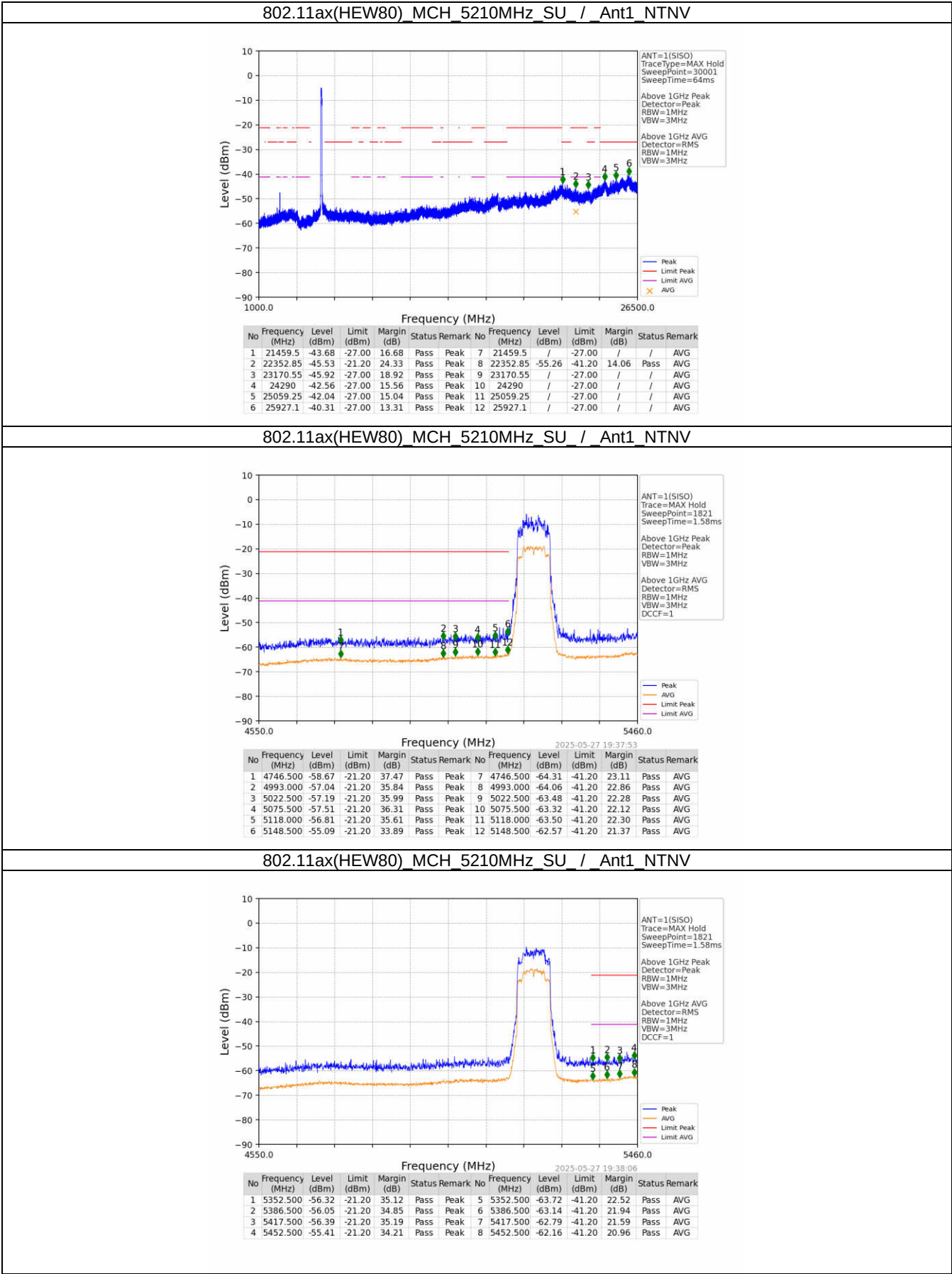


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark
1	21421.25	-43.11	-27.00	16.11	Pass Peak	7	21421.25	/	-27.00	/	AVG
2	22421.7	-46.04	-21.20	24.84	Pass Peak	8	22421.7	-55.24	-41.20	14.04	Pass AVG
3	23515.65	-45.65	-27.00	18.65	Pass Peak	9	23515.65	/	-27.00	/	AVG
4	24363.95	-41.99	-27.00	14.99	Pass Peak	10	24363.95	/	-27.00	/	AVG
5	25531	-40.23	-27.00	13.23	Pass Peak	11	25531	/	-27.00	/	AVG
6	26314.7	-42.98	-27.00	15.98	Pass Peak	12	26314.7	/	-27.00	/	AVG

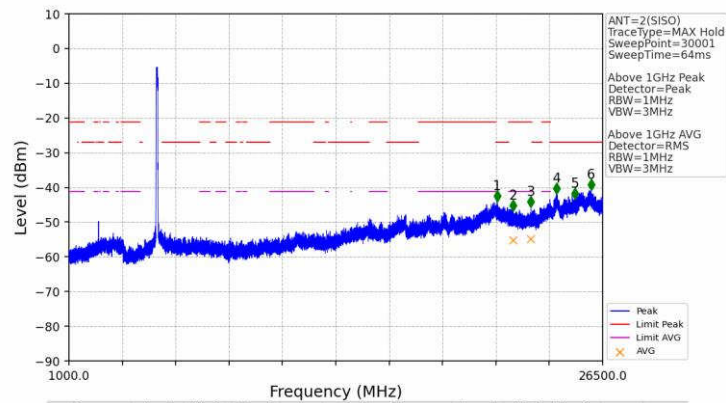






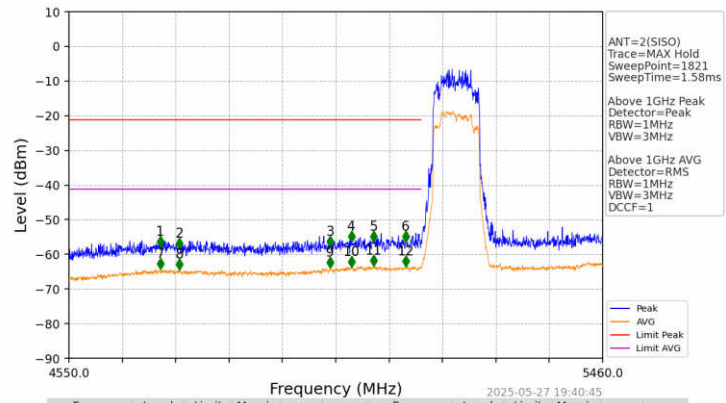


802.11ax(HEW80) MCH 5210MHz SU / Ant2 NTN



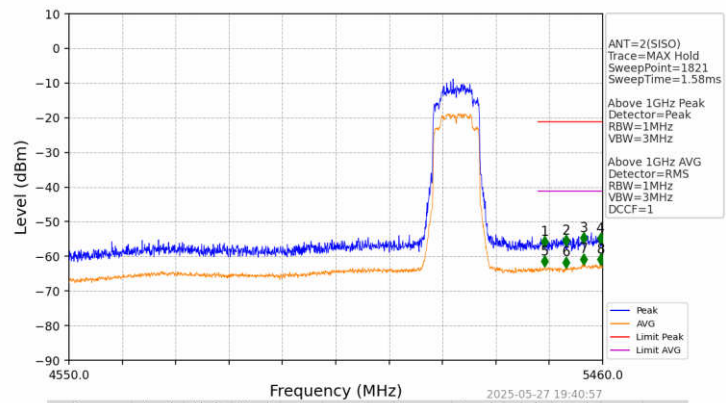
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1	21454.4	-44.04	-27.00	17.04	Pass Peak	7	21454.4	-	-27.00	-	/ AVG
2	22231.3	-46.72	-21.20	25.52	Pass Peak	8	22231.3	-55.13	-41.20	13.93	Pass AVG
3	23076.2	-45.69	-21.20	24.49	Pass Peak	9	23076.2	-54.80	-41.20	13.60	Pass AVG
4	24303.6	-41.90	-27.00	14.90	Pass Peak	10	24303.6	-	-27.00	-	/ AVG
5	25167.2	-43.35	-27.00	16.35	Pass Peak	11	25167.2	-	-27.00	-	/ AVG
6	25947.5	-40.69	-27.00	13.69	Pass Peak	12	25947.5	-	-27.00	-	/ AVG

802.11ax(HEW80) MCH 5210MHz SU / Ant2 NTN

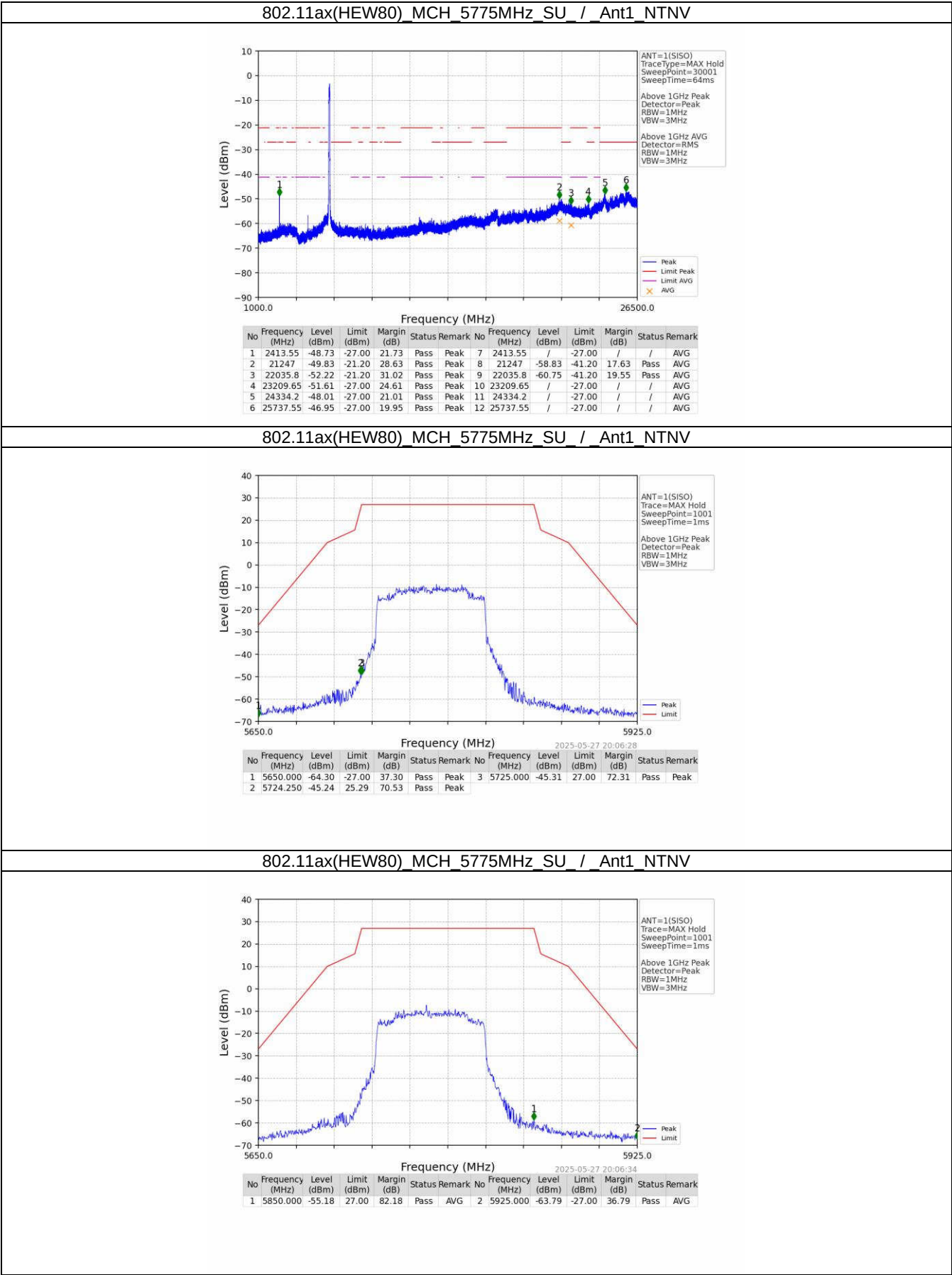


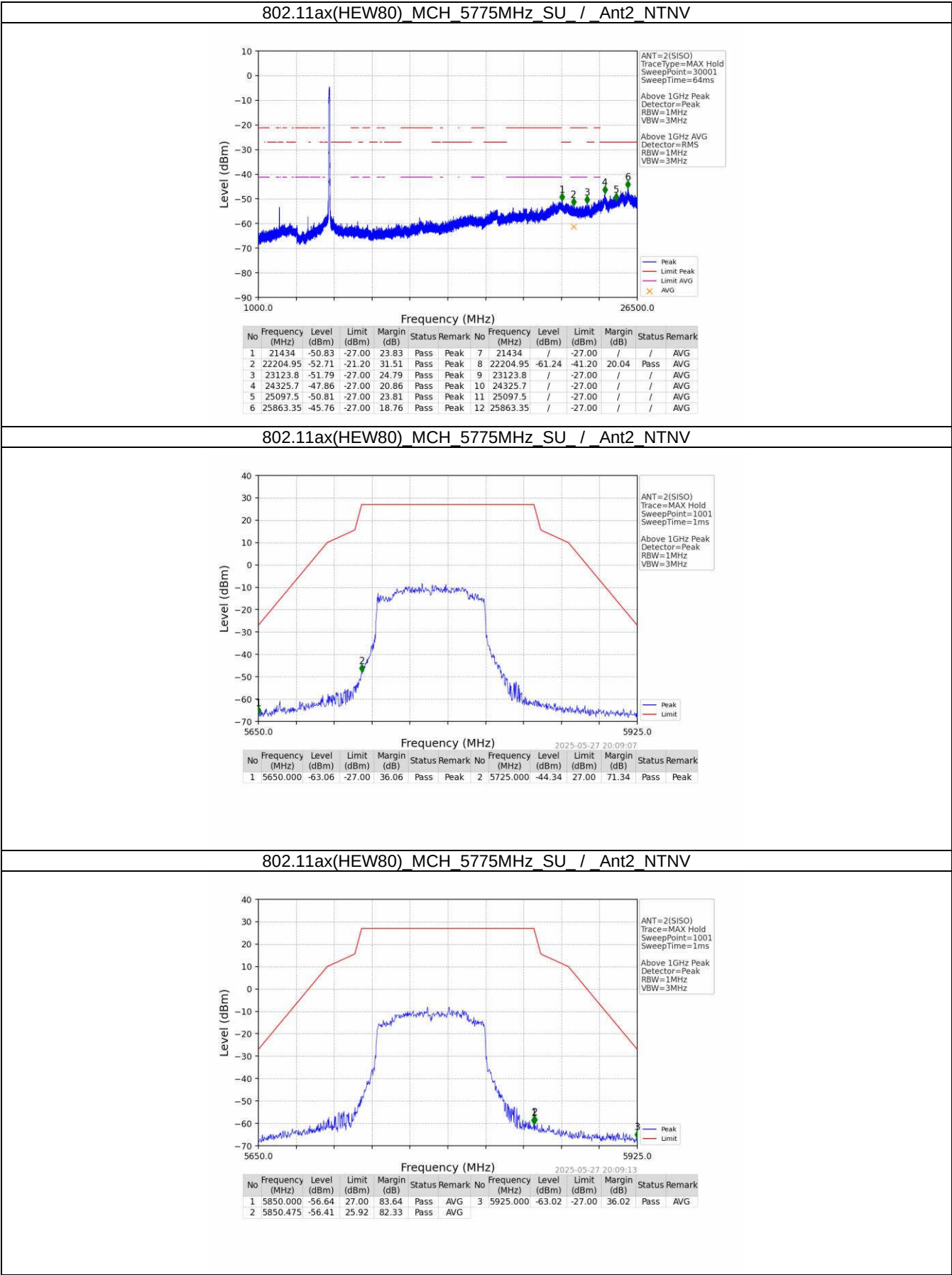
No	Frequency (MHz)	Level (dBm)	Lt (dBm)	Margin (dB)	Status Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark
1	4705.500	-57.96	-21.20	36.76	Pass Peak	7	4705.500	-64.30	-41.20	23.10	Pass AVG
2	4738.500	-58.43	-21.20	37.23	Pass Peak	8	4738.500	-64.51	-41.20	23.31	Pass AVG
3	4995.000	-57.92	-21.20	36.72	Pass Peak	9	4995.000	-63.82	-41.20	22.62	Pass AVG
4	5031.500	-56.50	-21.20	35.30	Pass Peak	10	5031.500	-63.63	-41.20	22.43	Pass AVG
5	5069.500	-56.37	-21.20	35.17	Pass Peak	11	5069.500	-63.42	-41.20	22.22	Pass AVG
6	5124.000	-56.50	-21.20	35.30	Pass Peak	12	5124.000	-63.48	-41.20	22.28	Pass AVG

802.11ax(HEW80) MCH 5210MHz SU / Ant2 NTN



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5361.500	-57.38	-21.20	36.18	Pass	Peak	5	5361.500	-63.03	-41.20	21.83	Pass	AVG
2	5398.000	-56.91	-21.20	35.71	Pass	Peak	6	5398.000	-63.26	-41.20	22.06	Pass	AVG
3	5427.500	-56.31	-21.20	35.11	Pass	Peak	7	5427.500	-62.35	-41.20	21.15	Pass	AVG
4	5456.500	-56.43	-21.20	35.23	Pass	Peak	8	5456.500	-62.42	-41.20	21.22	Pass	AVG





4.3 Maximum Conducted Average Output Power

Limit

For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

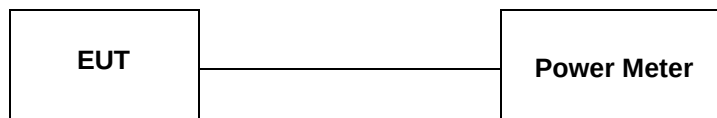
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power Meter.

Test Configuration



Test Results

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)	Duty Fator (dB)	Total Power (dBm)	Limit (dBm)	Verdict
			ANT1				
802.11a	SISO	5180	1.08	1.11	2.19	<=23.98	Pass
		5200	1.02	1.20	2.22	<=23.98	Pass
		5240	1.64	1.17	2.81	<=23.98	Pass
		5745	1.09	1.20	2.29	<=30	Pass
		5785	1.18	1.18	2.36	<=30	Pass
		5825	1.03	1.17	2.20	<=30	Pass
802.11n (HT20)	SISO	5180	1.04	1.04	2.08	<=23.98	Pass
		5200	1.03	1.02	2.05	<=23.98	Pass
		5240	1.32	1.03	2.35	<=23.98	Pass
		5745	1.05	1.05	2.10	<=30	Pass
		5785	1.14	1.05	2.19	<=30	Pass
		5825	1.17	1.03	2.20	<=30	Pass
802.11n (HT40)	SISO	5190	1.01	1.00	2.01	<=23.98	Pass
		5230	1.47	0.98	2.45	<=23.98	Pass
		5755	1.63	1.03	2.66	<=30	Pass
		5795	1.55	1.00	2.55	<=30	Pass
802.11ac (VHT20)	SISO	5180	1.01	1.09	2.10	<=23.98	Pass
		5200	1.12	1.09	2.21	<=23.98	Pass
		5240	1.42	1.07	2.49	<=23.98	Pass
		5745	1.02	1.09	2.11	<=30	Pass
		5785	1.05	1.09	2.14	<=30	Pass
		5825	1.11	1.09	2.20	<=30	Pass
802.11ac (VHT40)	SISO	5190	1.03	1.16	2.19	<=23.98	Pass
		5230	1.29	1.12	2.41	<=23.98	Pass
		5755	1.65	1.16	2.81	<=30	Pass
		5795	1.64	1.14	2.78	<=30	Pass
802.11ac (VHT80)	SISO	5210	1.40	1.09	2.49	<=23.98	Pass
		5775	1.95	1.11	3.06	<=30	Pass
802.11ax (HEW20)	SISO	5180	1.30	1.03	2.33	<=23.98	Pass
		5200	1.41	1.03	2.44	<=23.98	Pass
		5240	1.17	1.03	2.20	<=23.98	Pass
		5745	1.33	1.07	2.40	<=30	Pass
		5785	1.28	1.05	2.33	<=30	Pass
		5825	1.24	1.05	2.29	<=30	Pass
802.11ax (HEW40)	SISO	5190	1.37	1.04	2.41	<=23.98	Pass
		5230	1.09	1.07	2.16	<=23.98	Pass
		5755	1.12	1.10	2.22	<=30	Pass
		5795	1.26	1.07	2.33	<=30	Pass
802.11ax (HEW80)	SISO	5210	1.02	1.00	2.02	<=23.98	Pass
		5775	1.59	1.00	2.59	<=30	Pass
Note1: Antenna Gain: - Band: 1 Ant1: 4.01dBi; - Band: 3 Ant1: 3.47dBi; - Band: 1 Ant2: 2.31dBi; - Band: 3 Ant2: 3.61dBi; Total power= Maximum Average Conducted Output Power+ Duty Fator							

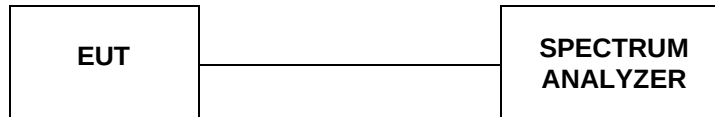
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)	Duty Fator (dB)	Total Power (dBm)	Limit (dBm)	Verdict
			ANT2				
802.11a	SISO	5180	1.13	1.22	2.35	<=23.98	Pass
		5200	1.80	1.22	3.02	<=23.98	Pass
		5240	1.04	1.17	2.21	<=23.98	Pass
		5745	1.42	1.19	2.61	<=30	Pass
		5785	1.57	1.22	2.79	<=30	Pass
		5825	1.14	1.22	2.36	<=30	Pass
802.11n (HT20)	SISO	5180	1.99	1.02	3.01	<=23.98	Pass
		5200	1.96	1.00	2.96	<=23.98	Pass
		5240	1.25	1.02	2.27	<=23.98	Pass
		5745	1.48	1.03	2.51	<=30	Pass
		5785	1.50	1.05	2.55	<=30	Pass
		5825	1.21	1.03	2.24	<=30	Pass
802.11n (HT40)	SISO	5190	1.02	1.00	2.02	<=23.98	Pass
		5230	1.66	0.98	2.64	<=23.98	Pass
		5755	1.06	1.03	2.09	<=30	Pass
		5795	1.02	1.00	2.02	<=30	Pass
802.11ac (VHT20)	SISO	5180	1.30	1.09	2.39	<=23.98	Pass
		5200	1.05	1.07	2.12	<=23.98	Pass
		5240	1.26	1.09	2.35	<=23.98	Pass
		5745	1.74	1.09	2.83	<=30	Pass
		5785	1.73	1.11	2.84	<=30	Pass
		5825	1.43	1.09	2.52	<=30	Pass
802.11ac (VHT40)	SISO	5190	1.89	1.16	3.05	<=23.98	Pass
		5230	1.75	1.12	2.87	<=23.98	Pass
		5755	1.67	1.18	2.85	<=30	Pass
		5795	1.69	1.14	2.83	<=30	Pass
802.11ac (VHT80)	SISO	5210	1.13	1.04	2.17	<=23.98	Pass
		5775	1.97	1.11	3.08	<=30	Pass
802.11ax (HEW20)	SISO	5180	1.55	1.03	2.58	<=23.98	Pass
		5200	1.53	0.98	2.51	<=23.98	Pass
		5240	1.38	1.03	2.41	<=23.98	Pass
		5745	1.16	1.05	2.21	<=30	Pass
		5785	1.23	1.05	2.28	<=30	Pass
		5825	1.02	1.03	2.05	<=30	Pass
802.11ax (HEW40)	SISO	5190	1.54	1.07	2.61	<=23.98	Pass
		5230	1.17	1.05	2.22	<=23.98	Pass
		5755	1.21	1.07	2.28	<=30	Pass
		5795	1.26	1.08	2.34	<=30	Pass
802.11ax (HEW80)	SISO	5210	1.52	1.09	2.61	<=23.98	Pass
		5775	1.41	1.04	2.45	<=30	Pass
Note1: Antenna Gain: - Band: 1 Ant1: 4.01dBi; - Band: 3 Ant1: 3.47dBi; - Band: 1 Ant2: 2.31dBi; - Band: 3 Ant2: 3.61dBi; Total power= Maximum Average Conducted Output Power+ Duty Fator							

4.4 On Time and Duty Cycle

Standard Applicable

None; for reporting purpose only.

TEST CONFIGURATION



Test Procedures

- 1). Set the Centre frequency of the spectrum analyzer to the transmitting frequency;
- 2). Set the span=0MHz, RBW=8MHz, VBW=8MHz, Sweep time=2ms;
- 3). Detector = peak;
- 4). Trace mode = Single hold.

TEST RESULTS

ANT 1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	0.151	0.195	77.44	1.11	0.40
		5200	0.148	0.195	75.90	1.20	0.46
		5240	0.149	0.195	76.41	1.17	0.53
		5745	0.148	0.195	75.90	1.20	0.57
		5785	0.148	0.194	76.29	1.18	0.34
		5825	0.149	0.195	76.41	1.17	0.46
802.11n (HT20)	SISO	5180	0.177	0.225	78.67	1.04	0.64
		5200	0.177	0.224	79.02	1.02	0.19
		5240	0.176	0.223	78.92	1.03	0.36
		5745	0.176	0.224	78.57	1.05	0.42
		5785	0.176	0.224	78.57	1.05	0.66
		5825	0.176	0.223	78.92	1.03	0.15
802.11n (HT40)	SISO	5190	0.181	0.228	79.39	1.00	0.42
		5230	0.181	0.227	79.74	0.98	0.28
		5755	0.180	0.228	78.95	1.03	0.52
		5795	0.181	0.228	79.39	1.00	0.31
802.11ac (VHT20)	SISO	5180	0.165	0.212	77.83	1.09	0.23
		5200	0.165	0.212	77.83	1.09	0.22
		5240	0.165	0.211	78.20	1.07	0.23
		5745	0.165	0.212	77.83	1.09	0.20
		5785	0.165	0.212	77.83	1.09	0.20
		5825	0.164	0.211	77.73	1.09	0.16
802.11ac (VHT40)	SISO	5190	0.157	0.205	76.59	1.16	0.52
		5230	0.157	0.203	77.34	1.12	0.09
		5755	0.157	0.205	76.59	1.16	0.78
		5795	0.156	0.203	76.85	1.14	0.27
802.11ac (VHT80)	SISO	5210	0.165	0.212	77.83	1.09	0.59
		5775	0.164	0.212	77.36	1.11	0.50
802.11ax (HEW20)	SISO	5180	0.175	0.222	78.83	1.03	0.17
		5200	0.175	0.222	78.83	1.03	0.37
		5240	0.175	0.222	78.83	1.03	0.21
		5745	0.175	0.224	78.13	1.07	0.50
		5785	0.175	0.223	78.48	1.05	0.54
		5825	0.175	0.223	78.48	1.05	0.41
802.11ax (HEW40)	SISO	5190	0.173	0.220	78.64	1.04	0.83
		5230	0.171	0.219	78.08	1.07	0.68
		5755	0.170	0.219	77.63	1.10	0.61
		5795	0.171	0.219	78.08	1.07	0.68
802.11ax (HEW80)	SISO	5210	0.178	0.224	79.46	1.00	0.53
		5775	0.178	0.224	79.46	1.00	0.08

Ant2							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	0.148	0.196	75.51	1.22	0.53
		5200	0.148	0.196	75.51	1.22	0.69
		5240	0.149	0.195	76.41	1.17	0.07
		5745	0.149	0.196	76.02	1.19	0.57
		5785	0.148	0.196	75.51	1.22	0.54
		5825	0.148	0.196	75.51	1.22	0.52
802.11n (HT20)	SISO	5180	0.177	0.224	79.02	1.02	0.32
		5200	0.177	0.223	79.37	1.00	0.19
		5240	0.177	0.224	79.02	1.02	0.30
		5745	0.176	0.223	78.92	1.03	0.35
		5785	0.176	0.224	78.57	1.05	0.29
		5825	0.176	0.223	78.92	1.03	0.44
802.11n (HT40)	SISO	5190	0.181	0.228	79.39	1.00	0.51
		5230	0.181	0.227	79.74	0.98	0.19
		5755	0.180	0.228	78.95	1.03	0.74
		5795	0.181	0.228	79.39	1.00	0.44
802.11ac (VHT20)	SISO	5180	0.165	0.212	77.83	1.09	0.50
		5200	0.165	0.211	78.20	1.07	0.06
		5240	0.165	0.212	77.83	1.09	0.51
		5745	0.165	0.212	77.83	1.09	0.40
		5785	0.164	0.212	77.36	1.11	0.47
		5825	0.164	0.211	77.73	1.09	0.40
802.11ac (VHT40)	SISO	5190	0.157	0.205	76.59	1.16	0.79
		5230	0.157	0.203	77.34	1.12	0.24
		5755	0.157	0.206	76.21	1.18	0.85
		5795	0.156	0.203	76.85	1.14	0.24
802.11ac (VHT80)	SISO	5210	0.167	0.212	78.77	1.04	0.47
		5775	0.165	0.213	77.46	1.11	0.54
802.11ax (HEW20)	SISO	5180	0.175	0.222	78.83	1.03	0.25
		5200	0.177	0.222	79.73	0.98	0.24
		5240	0.175	0.222	78.83	1.03	0.24
		5745	0.175	0.223	78.48	1.05	0.24
		5785	0.175	0.223	78.48	1.05	0.54
		5825	0.175	0.222	78.83	1.03	0.19
802.11ax (HEW40)	SISO	5190	0.171	0.219	78.08	1.07	0.49
		5230	0.171	0.218	78.44	1.05	0.23
		5755	0.171	0.219	78.08	1.07	0.39
		5795	0.170	0.218	77.98	1.08	0.26
802.11ax (HEW80)	SISO	5210	0.175	0.225	77.78	1.09	0.89
		5775	0.178	0.226	78.76	1.04	1.16

Test plot as follows

