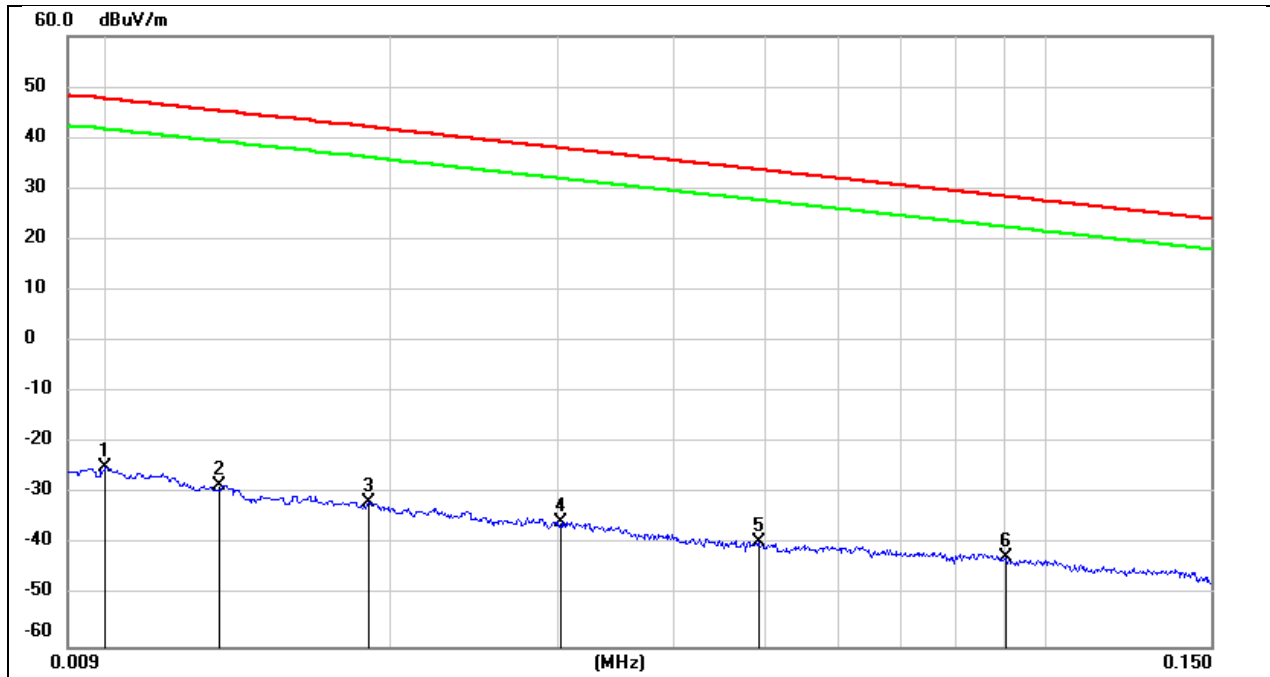


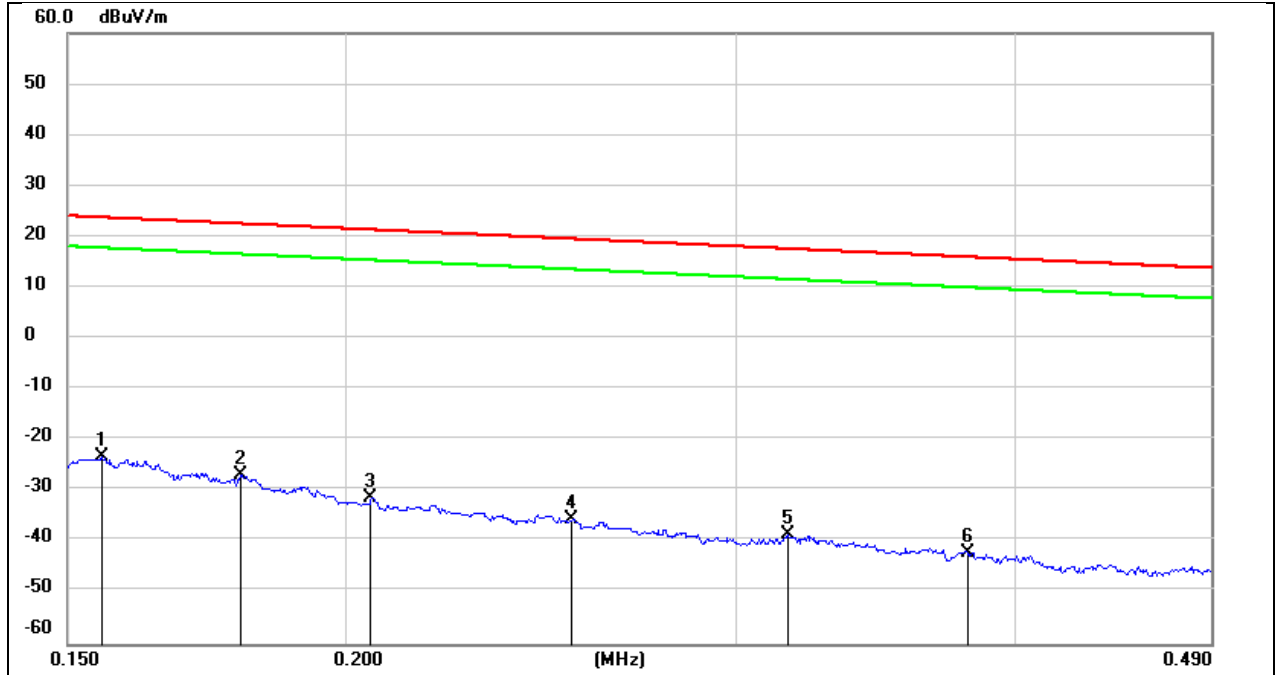
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



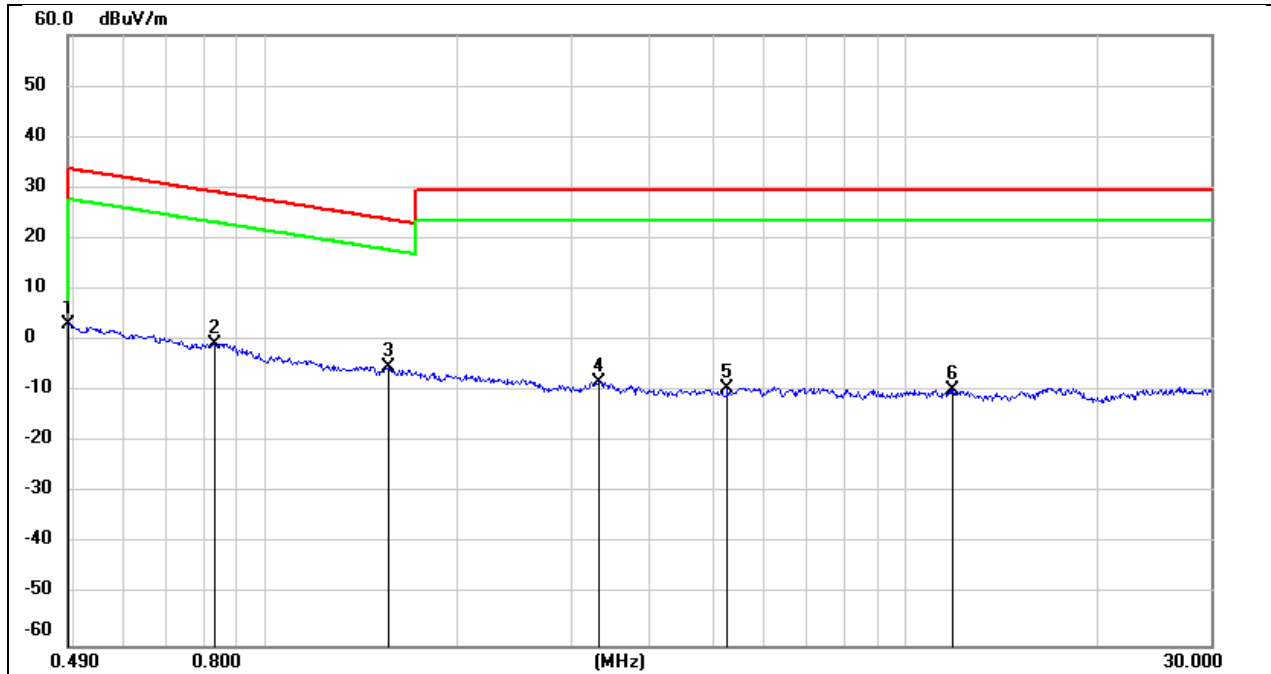
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.0100	76.72	-101.40	-24.68	47.60	-76.18	-3.90	-72.28	peak
2	0.0131	72.97	-101.38	-28.41	45.25	-79.91	-6.25	-73.66	peak
3	0.0189	69.64	-101.35	-31.71	42.07	-83.21	-9.43	-73.78	peak
4	0.0303	65.85	-101.39	-35.54	37.97	-87.04	-13.53	-73.51	peak
5	0.0492	62.05	-101.47	-39.42	33.76	-90.92	-17.74	-73.18	peak
6	0.0908	59.38	-101.72	-42.34	28.44	-93.84	-23.06	-70.78	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.1554	78.27	-101.65	-23.38	23.77	-74.88	-27.73	-47.15	peak
2	0.1794	74.77	-101.68	-26.91	22.53	-78.41	-28.97	-49.44	peak
3	0.2053	70.29	-101.73	-31.44	21.35	-82.94	-30.15	-52.79	peak
4	0.2530	66.14	-101.80	-35.66	19.54	-87.16	-31.96	-55.20	peak
5	0.3163	63.20	-101.87	-38.67	17.60	-90.17	-33.90	-56.27	peak
6	0.3809	59.91	-101.94	-42.03	15.99	-93.53	-35.51	-58.02	peak

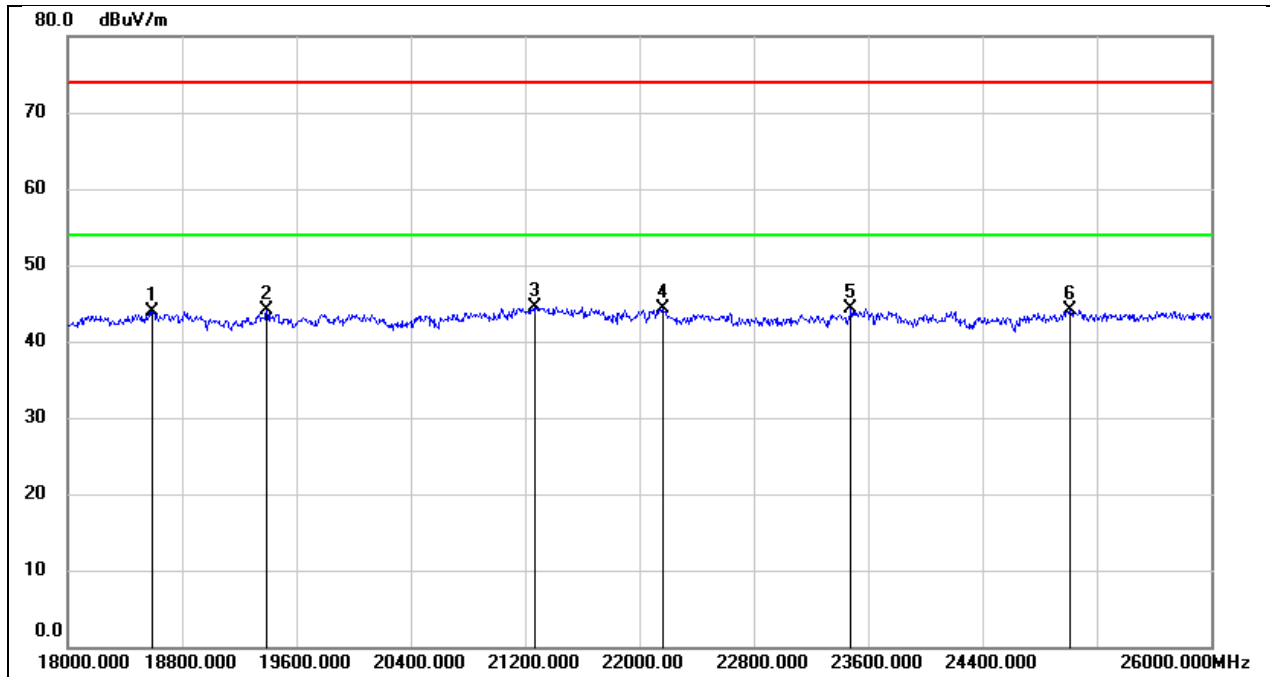
Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.4900	65.22	-62.06	3.16	13.80	-48.34	-37.70	-10.64	peak
2	0.8296	61.44	-62.17	-0.73	29.23	-52.23	-22.27	-29.96	peak
3	1.5564	56.68	-62.02	-5.34	23.76	-56.84	-27.74	-29.10	peak
4	3.3229	53.39	-61.50	-8.11	29.54	-59.61	-21.96	-37.65	peak
5	5.2705	52.04	-61.45	-9.41	29.54	-60.91	-21.96	-38.95	peak
6	11.8513	51.06	-60.88	-9.82	29.54	-61.32	-21.96	-39.36	peak

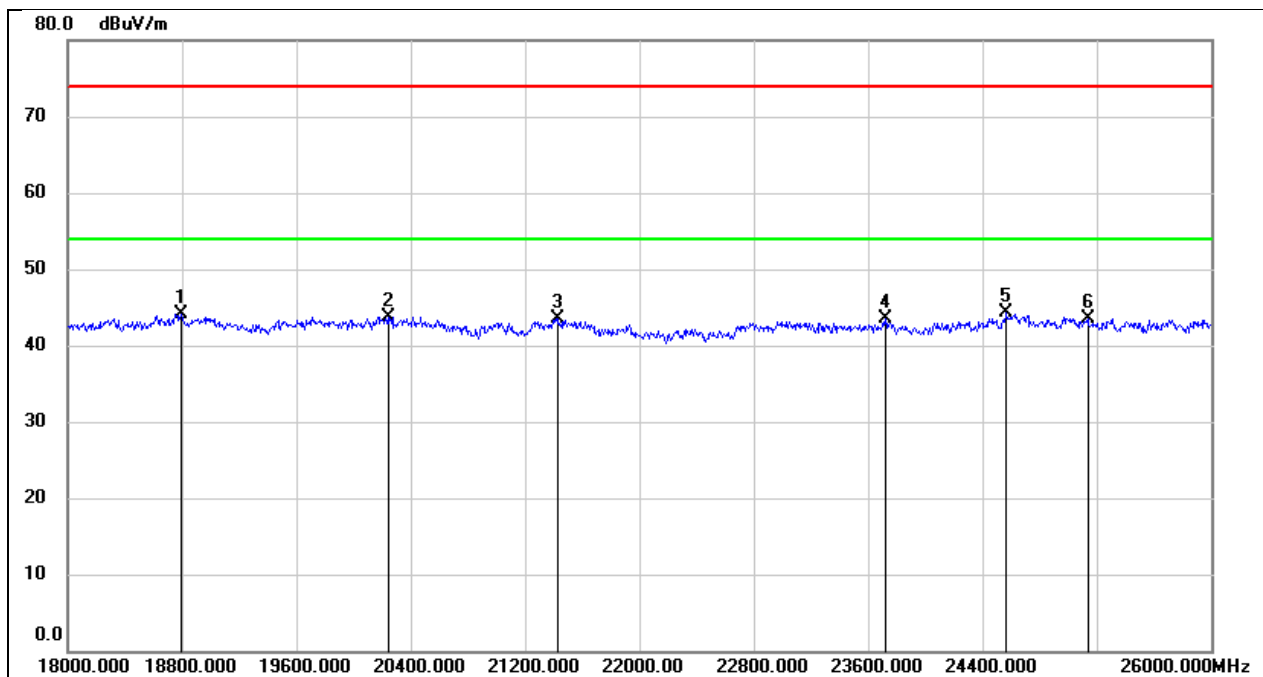
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18592.000	49.25	-5.31	43.94	74.00	-30.06	peak
2	19392.000	49.62	-5.57	44.05	74.00	-29.95	peak
3	21272.000	49.17	-4.76	44.41	74.00	-29.59	peak
4	22160.000	48.58	-4.31	44.27	74.00	-29.73	peak
5	23480.000	47.54	-3.16	44.38	74.00	-29.62	peak
6	25016.000	46.15	-2.07	44.08	74.00	-29.92	peak

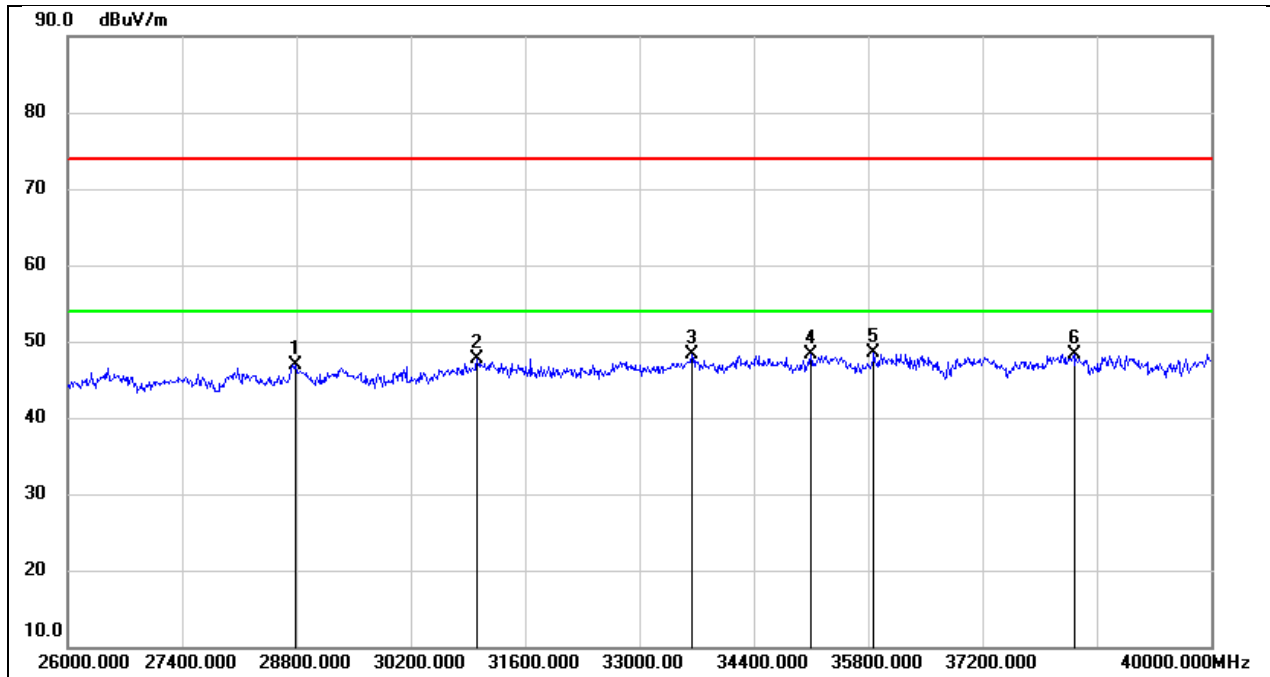
Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18792.000	49.45	-5.39	44.06	74.00	-29.94	peak
2	20240.000	49.32	-5.61	43.71	74.00	-30.29	peak
3	21432.000	48.24	-4.71	43.53	74.00	-30.47	peak
4	23720.000	46.60	-3.18	43.42	74.00	-30.58	peak
5	24568.000	46.60	-2.33	44.27	74.00	-29.73	peak
6	25136.000	45.42	-1.87	43.55	74.00	-30.45	peak

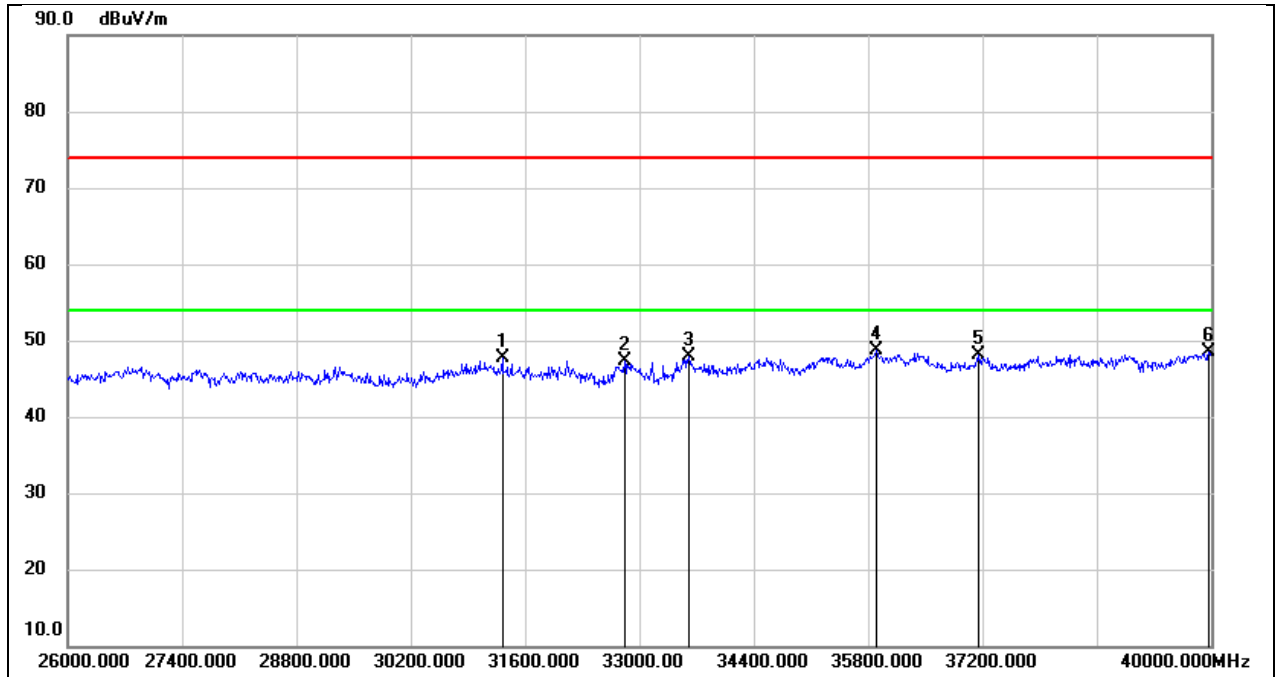
8.6. SPURIOUS EMISSIONS(26 GHZ~40 GHZ)

Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	28786.000	47.49	-0.64	46.85	74.00	-27.15	peak
2	31012.000	48.33	-0.71	47.62	74.00	-26.38	peak
3	33644.000	47.81	0.42	48.23	74.00	-25.77	peak
4	35100.000	46.44	1.85	48.29	74.00	-25.71	peak
5	35870.000	44.83	3.75	48.58	74.00	-25.42	peak
6	38320.000	44.56	3.77	48.33	74.00	-25.67	peak

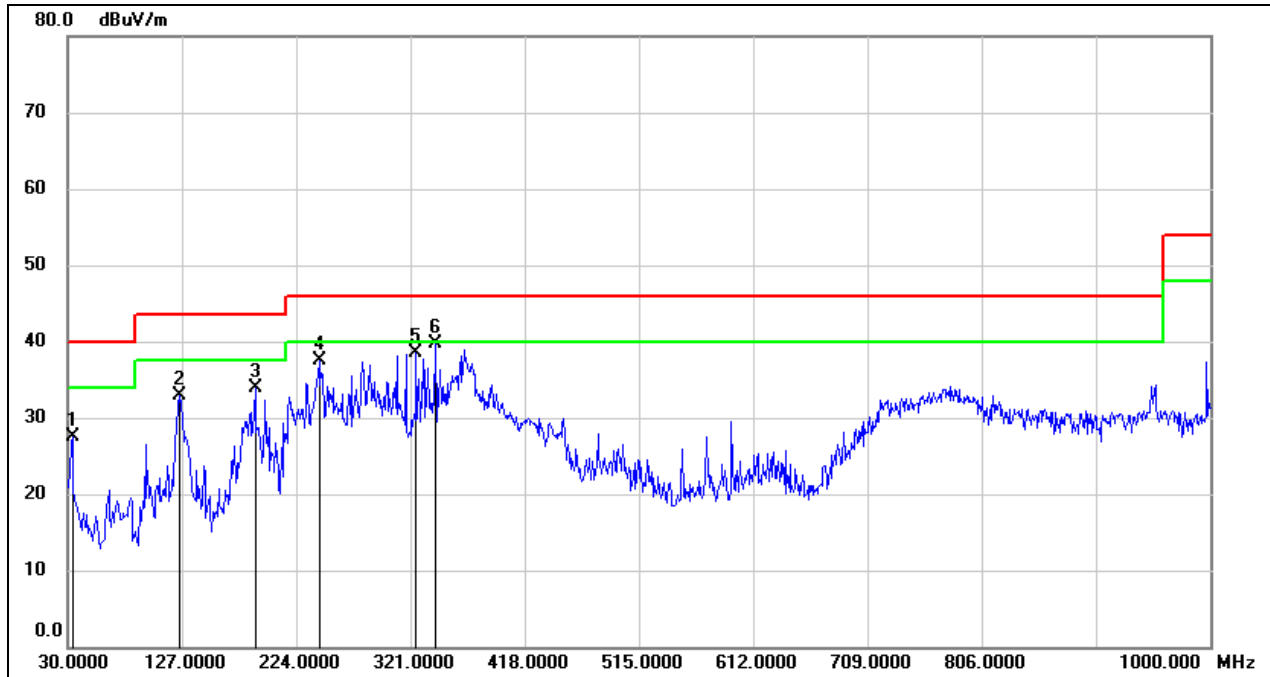
Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31320.000	48.61	-0.93	47.68	74.00	-26.32	peak
2	32818.000	48.31	-1.08	47.23	74.00	-26.77	peak
3	33602.000	47.51	0.46	47.97	74.00	-26.03	peak
4	35898.000	44.82	3.82	48.64	74.00	-25.36	peak
5	37158.000	44.84	3.17	48.01	74.00	-25.99	peak
6	39972.000	43.45	5.13	48.58	74.00	-25.42	peak

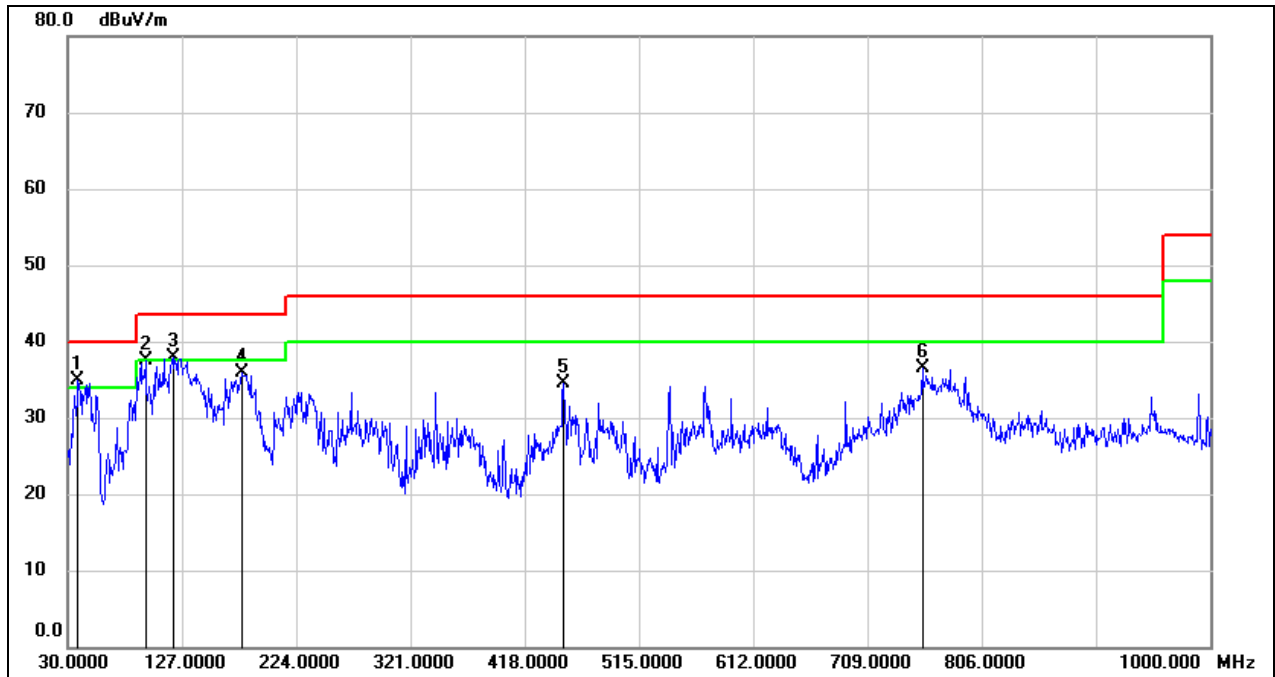
8.7. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.8800	41.58	-13.99	27.59	40.00	-12.41	QP
2	125.0600	47.64	-14.82	32.82	43.50	-10.68	QP
3	189.0800	46.02	-12.19	33.83	43.50	-9.67	QP
4	243.4000	51.92	-14.38	37.54	46.00	-8.46	QP
5	325.8500	49.10	-10.61	38.49	46.00	-7.51	QP
6	342.3400	49.70	-9.92	39.78	46.00	-6.22	QP

Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Vertical	Test Voltage:	AC 120V_60Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	38.7300	49.59	-14.71	34.88	40.00	-5.12	QP
2	95.9600	54.34	-16.82	37.52	43.50	-5.98	QP
3	119.2400	53.10	-15.10	38.00	43.50	-5.50	QP
4	178.4100	47.82	-11.95	35.87	43.50	-7.63	QP
5	450.9800	43.03	-8.62	34.41	46.00	-11.59	QP
6	755.5600	39.98	-3.39	36.59	46.00	-9.41	QP

9. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

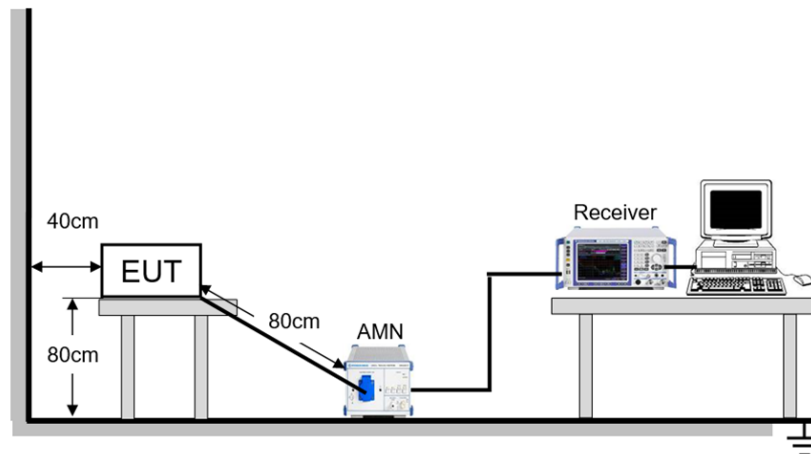
TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

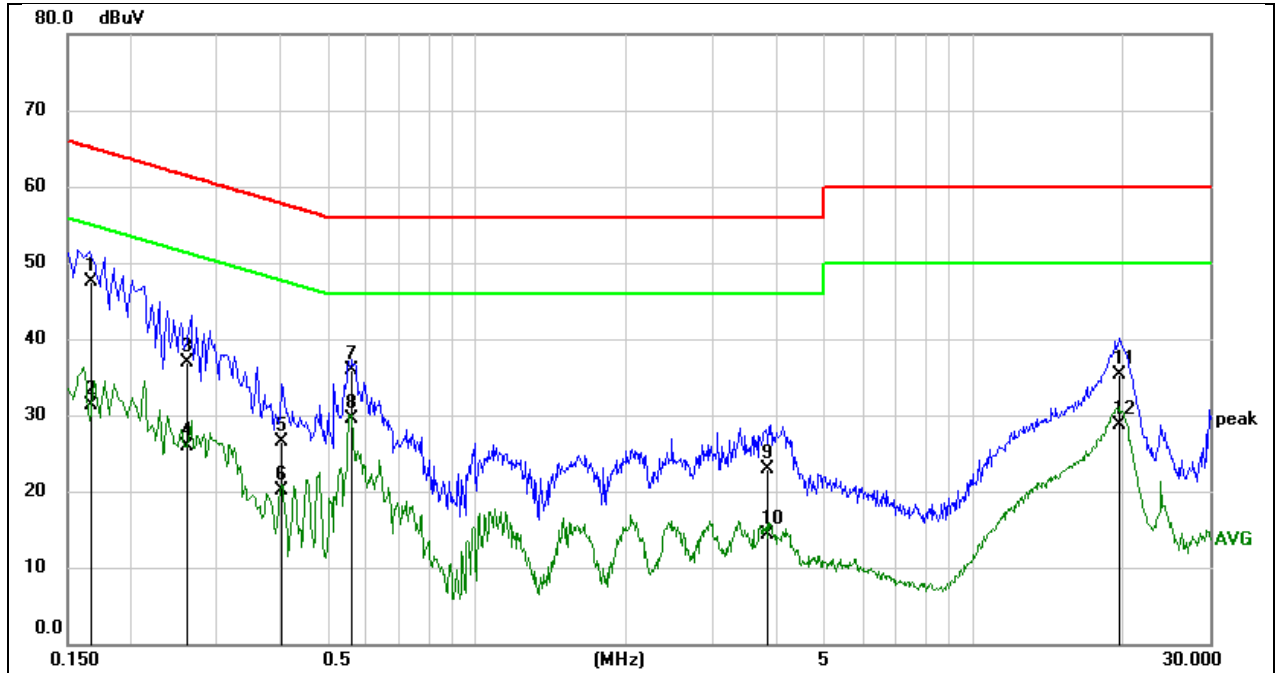
Temperature	25.3°C	Relative Humidity	60%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V_60Hz

TEST DATE / ENGINEER

Test Date	March 27, 2024	Test By	Wite Chen
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TEST RESULTS

Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Line:	Line		



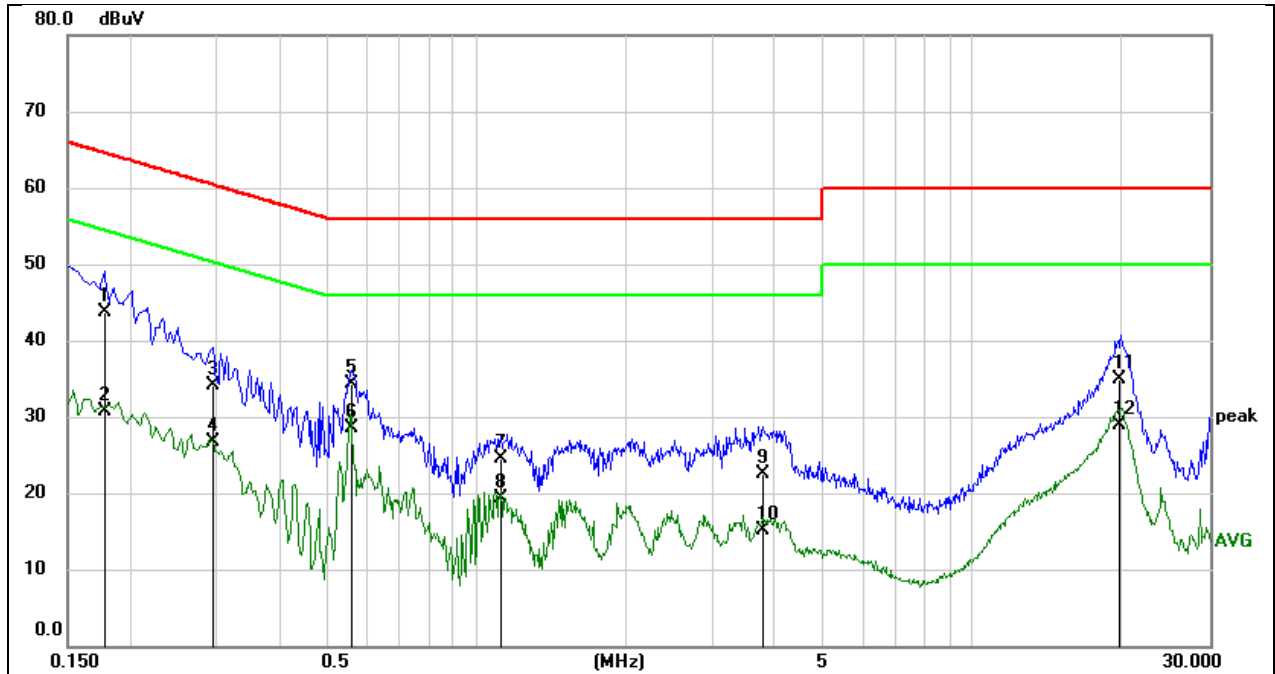
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1677	37.28	10.30	47.58	65.07	-17.49	QP
2	0.1677	21.09	10.30	31.39	55.07	-23.68	AVG
3	0.2614	26.76	10.24	37.00	61.39	-24.39	QP
4	0.2614	15.75	10.24	25.99	51.39	-25.40	AVG
5	0.4029	16.26	10.24	26.50	57.79	-31.29	QP
6	0.4029	9.79	10.24	20.03	47.79	-27.76	AVG
7	0.5616	25.68	10.24	35.92	56.00	-20.08	QP
8	0.5616	19.25	10.24	29.49	46.00	-16.51	AVG
9	3.8645	12.79	10.21	23.00	56.00	-33.00	QP
10	3.8645	4.12	10.21	14.33	46.00	-31.67	AVG
11	19.8129	24.49	10.83	35.32	60.00	-24.68	QP
12	19.8129	17.95	10.83	28.78	50.00	-21.22	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Line:	Neutral		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1771	33.36	10.29	43.65	64.62	-20.97	QP
2	0.1771	20.49	10.29	30.78	54.62	-23.84	AVG
3	0.2939	23.79	10.24	34.03	60.41	-26.38	QP
4	0.2939	16.40	10.24	26.64	50.41	-23.77	AVG
5	0.5599	24.06	10.24	34.30	56.00	-21.70	QP
6	0.5599	18.24	10.24	28.48	46.00	-17.52	AVG
7	1.1153	14.56	10.02	24.58	56.00	-31.42	QP
8	1.1153	9.23	10.02	19.25	46.00	-26.75	AVG
9	3.7880	12.30	10.20	22.50	56.00	-33.50	QP
10	3.7880	4.84	10.20	15.04	46.00	-30.96	AVG
11	19.8197	24.15	10.83	34.98	60.00	-25.02	QP
12	19.8197	18.05	10.83	28.88	50.00	-21.12	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

10. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203

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

DESCRIPTION

Pass

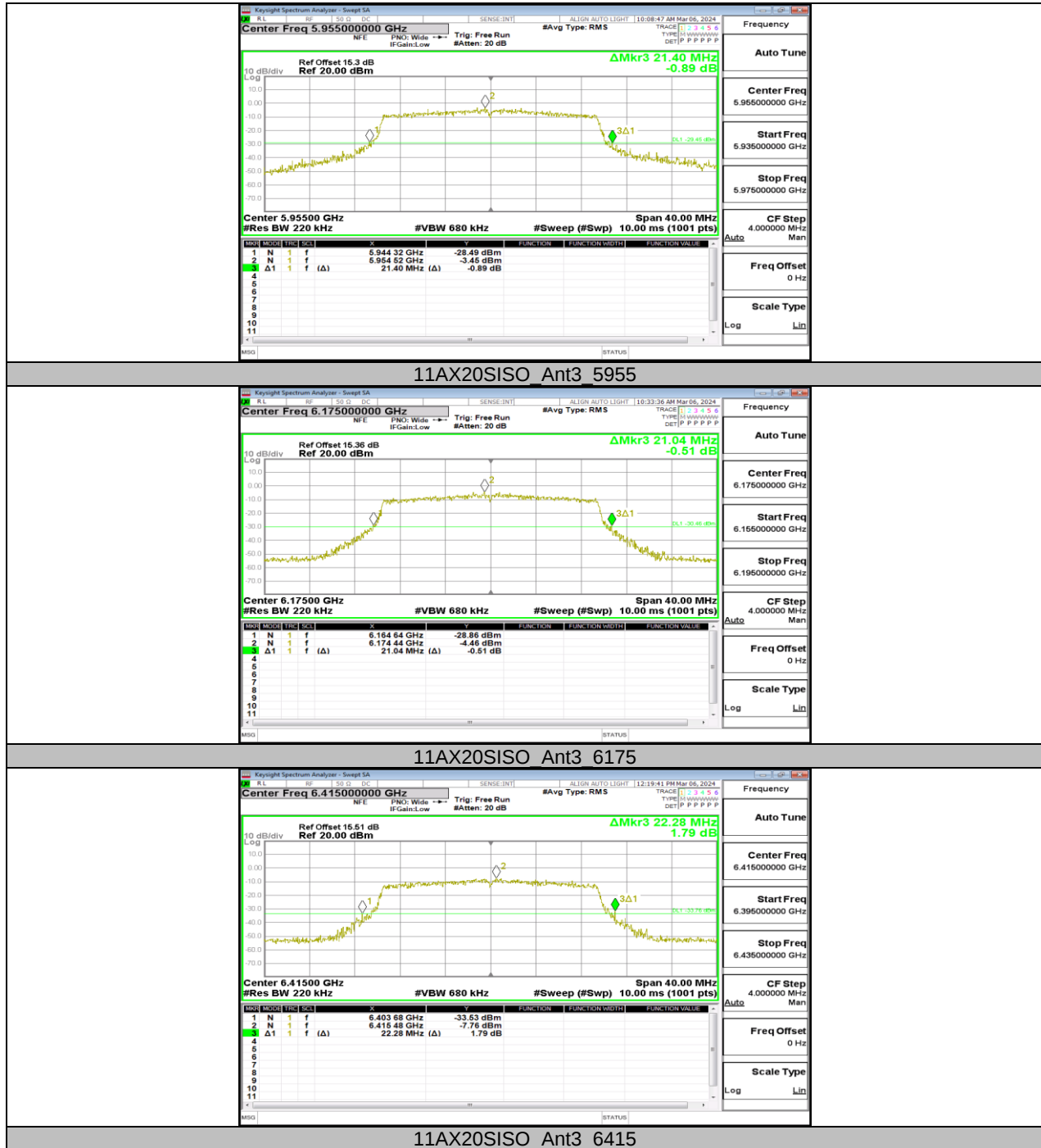
11. TEST DATA

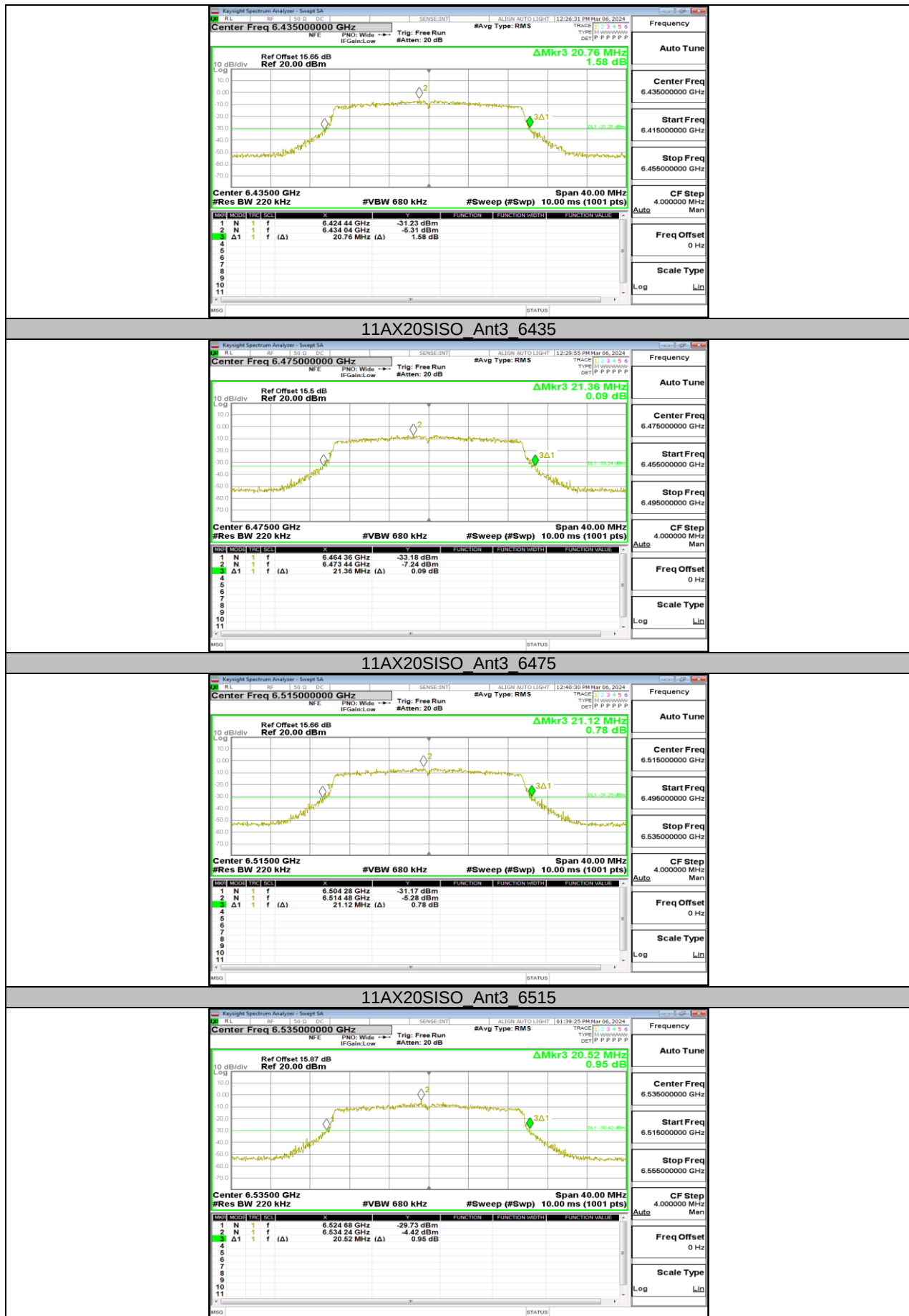
11.1. APPENDIX A1: EMISSION BANDWIDTH

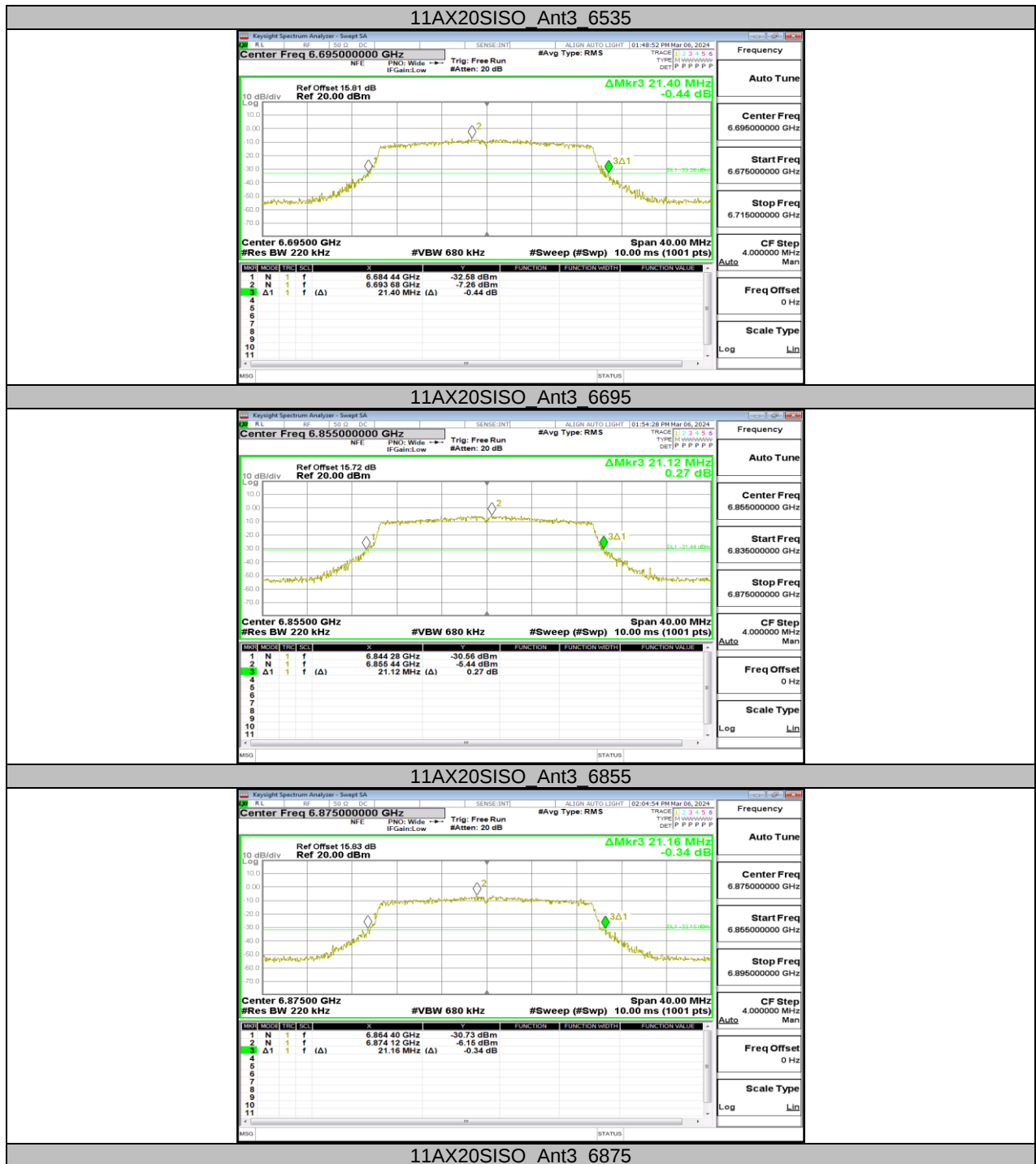
11.1.1. Test Result

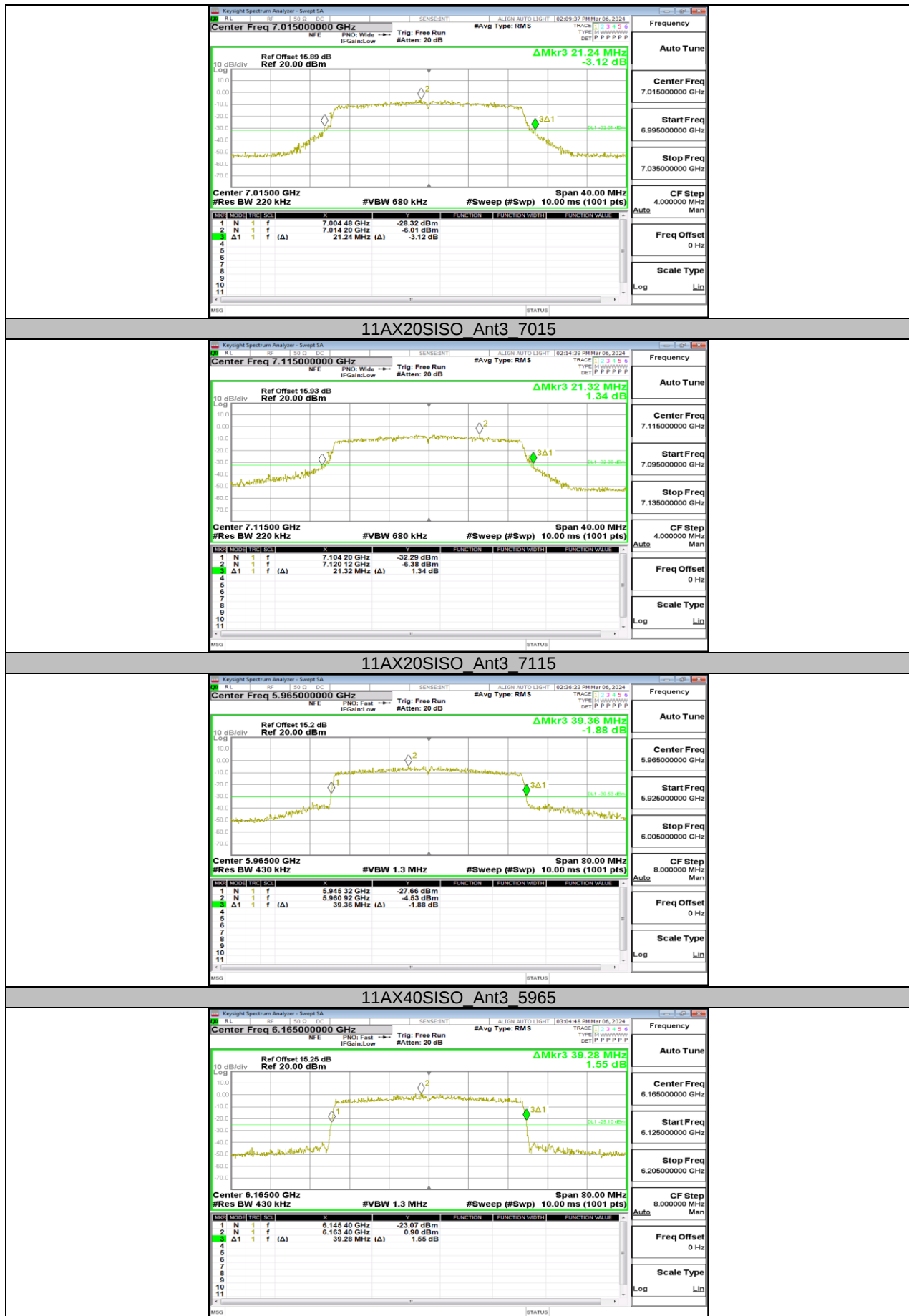
Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11AX20SISO	Ant3	5955	21.400	5944.320	5965.720	PASS
		6175	21.040	6164.640	6185.680	PASS
		6415	22.280	6403.680	6425.960	PASS
		6435	20.760	6424.440	6445.200	PASS
		6475	21.360	6464.360	6485.720	PASS
		6515	21.120	6504.280	6525.400	PASS
		6535	20.520	6524.680	6545.200	PASS
		6695	21.400	6684.440	6705.840	PASS
		6855	21.120	6844.280	6865.400	PASS
		6875	21.160	6864.400	6885.560	PASS
		7015	21.240	7004.480	7025.720	PASS
		7115	21.320	7104.200	7125.520	PASS
11AX40SISO	Ant3	5965	39.360	5945.320	5984.680	PASS
		6165	39.280	6145.400	6184.680	PASS
		6405	39.520	6385.320	6424.840	PASS
		6445	39.280	6425.400	6464.680	PASS
		6485	39.280	6465.320	6504.600	PASS
		6525	39.200	6505.320	6544.520	PASS
		6685	39.280	6665.240	6704.520	PASS
		6845	39.520	6825.160	6864.680	PASS
		6885	39.360	6865.240	6904.600	PASS
		7005	39.280	6985.400	7024.680	PASS
		7085	39.360	7065.240	7104.600	PASS
11AX80SISO	Ant3	5985	79.840	5945.000	6024.840	PASS
		6145	79.680	6105.160	6184.840	PASS
		6385	79.680	6345.160	6424.840	PASS
		6465	80.000	6424.840	6504.840	PASS
		6545	79.680	6505.160	6584.840	PASS
		6705	80.000	6665.000	6745.000	PASS
		6865	79.840	6825.160	6905.000	PASS
		6945	80.160	6904.840	6985.000	PASS
		7025	79.840	6985.000	7064.840	PASS
11AX160SISO	Ant3	6025	161.280	5944.360	6105.640	PASS
		6185	160.960	6104.360	6265.320	PASS
		6345	160.960	6264.360	6425.320	PASS
		6505	160.960	6424.360	6585.320	PASS
		6665	160.960	6584.680	6745.640	PASS
		6825	160.640	6744.680	6905.320	PASS
		6985	160.640	6904.680	7065.320	PASS

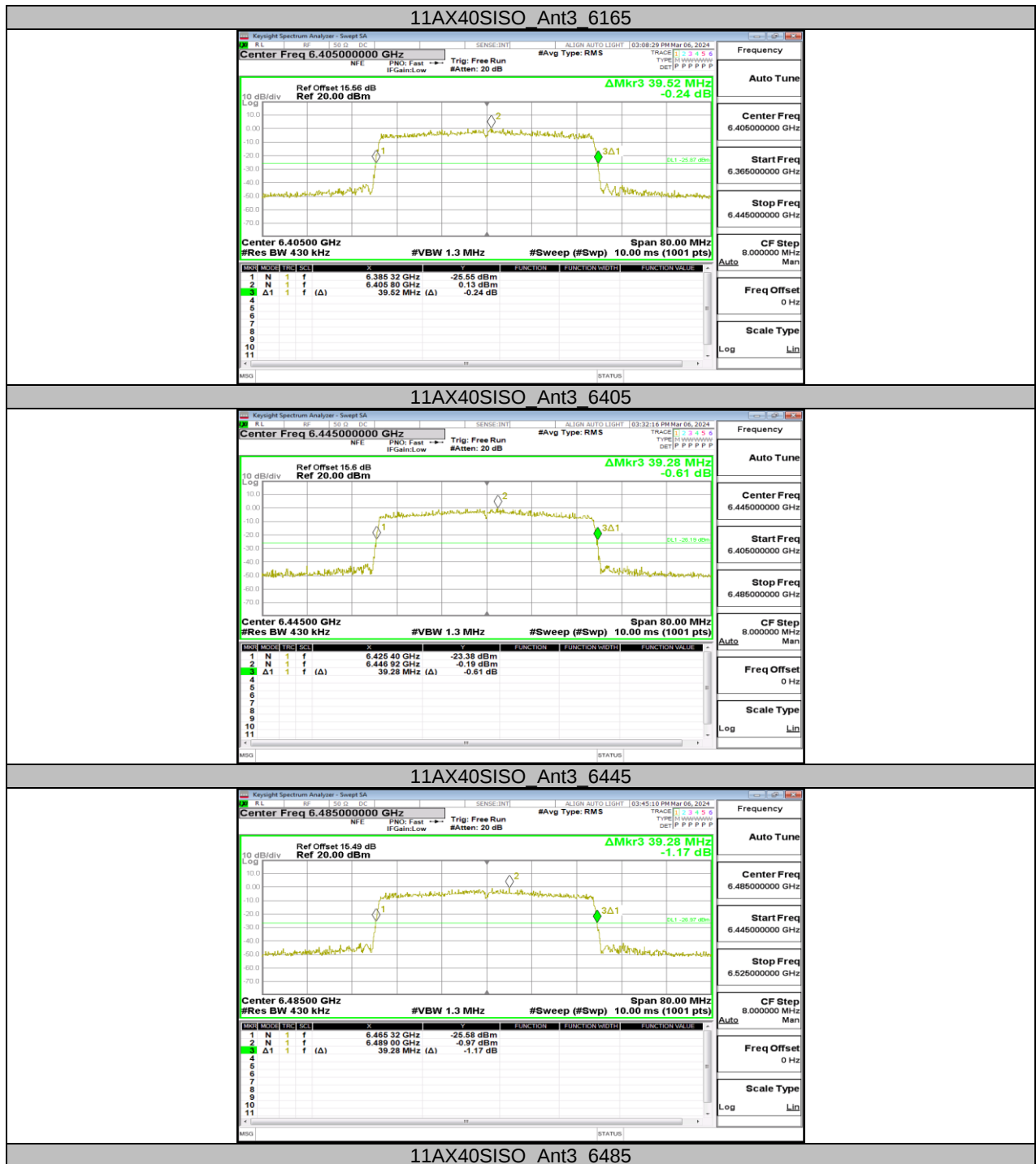
11.1.2. Test Graphs

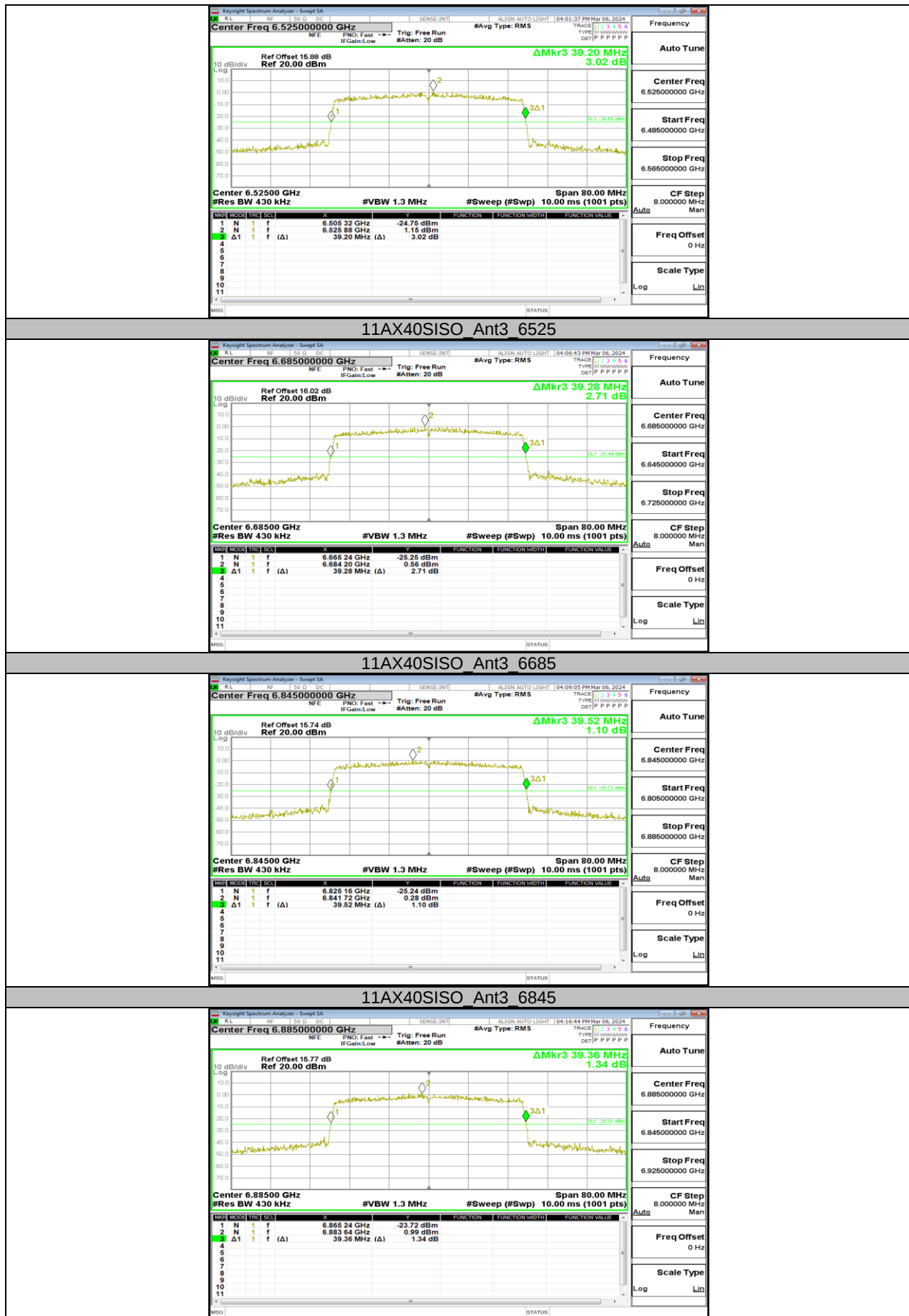


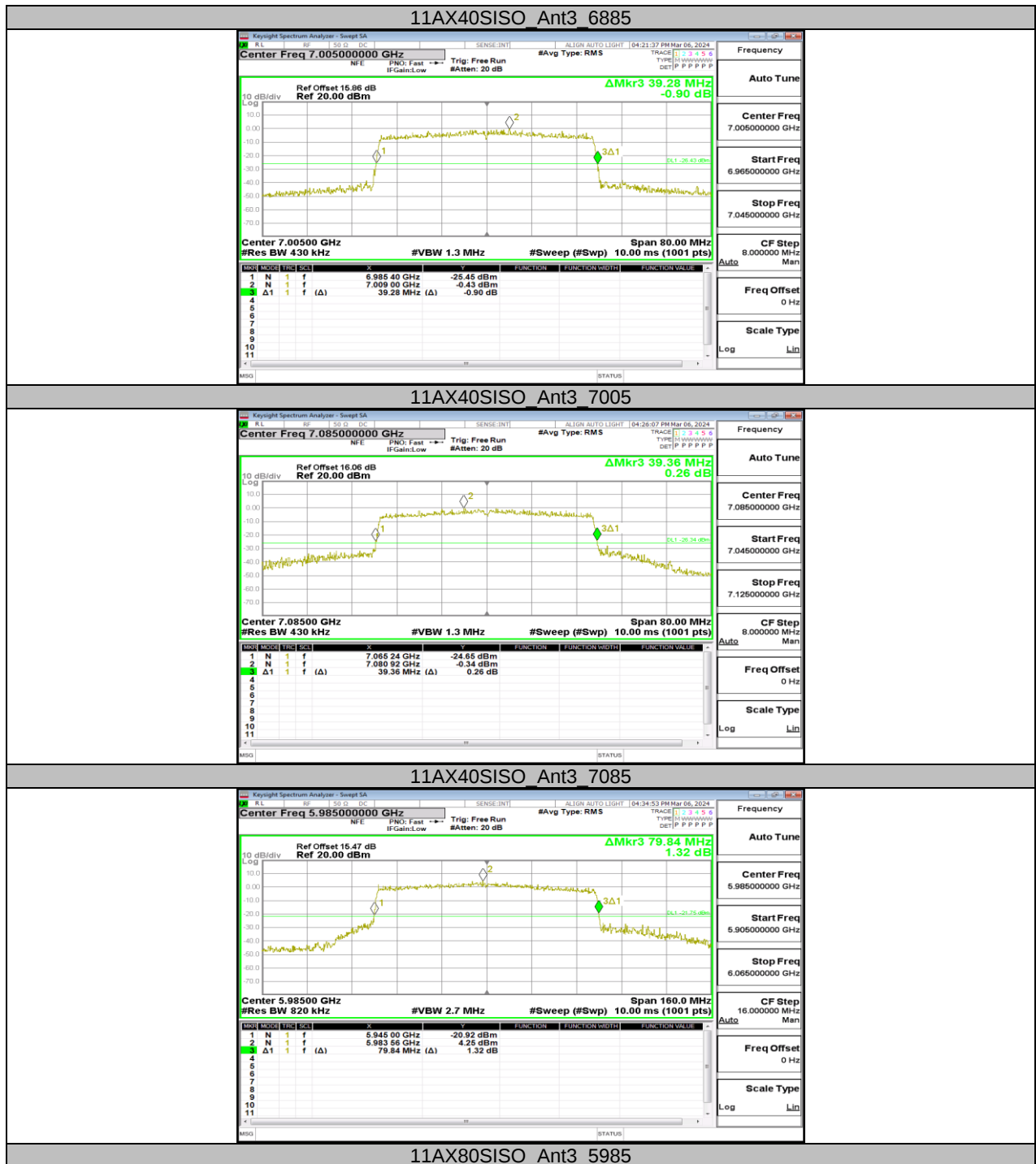




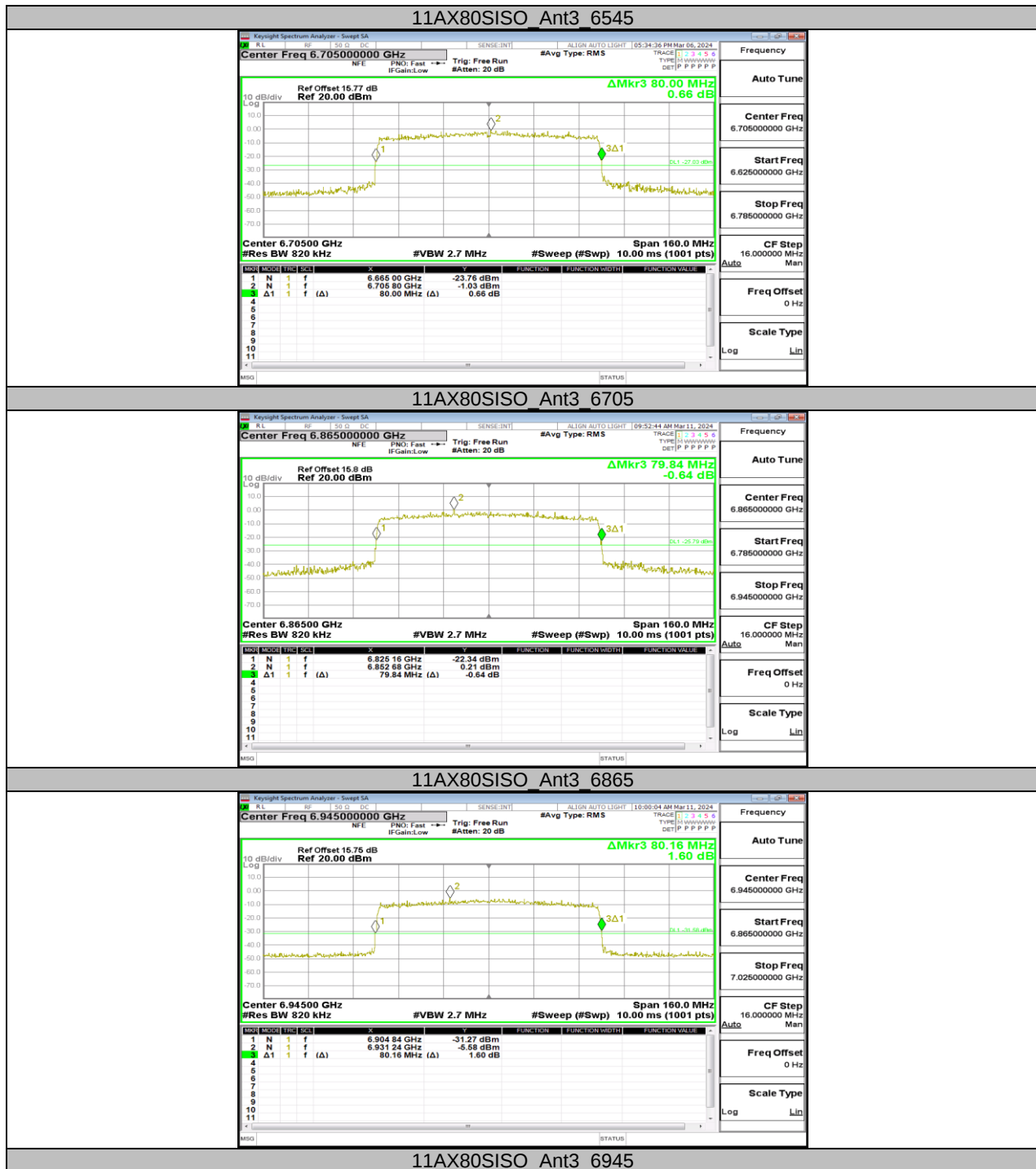






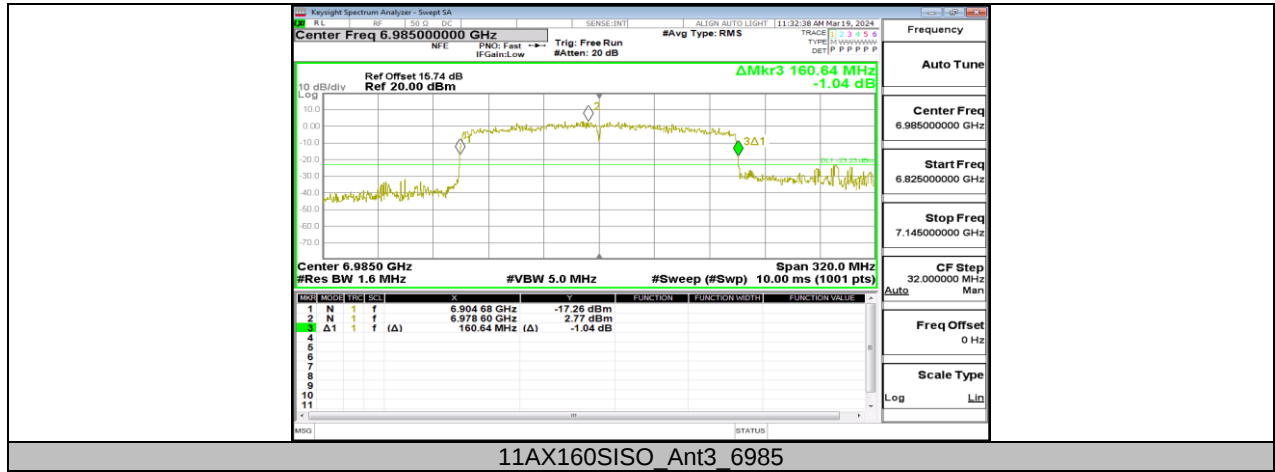












11.2. APPENDIX A2: OCCUPIED CHANNEL BANDWIDTH

11.2.1. Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AX20SISO	Ant3	5955	18.982	5945.4605	5964.4425	≤320	PASS
		6175	18.958	6165.4907	6184.4487	≤320	PASS
		6415	18.981	6405.4622	6424.4432	≤320	PASS
		6435	18.947	6425.4815	6444.4285	≤320	PASS
		6475	19.018	6465.4537	6484.4717	≤320	PASS
		6515	18.956	6505.4992	6524.4552	≤320	PASS
		6535	18.973	6525.4789	6544.4519	≤320	PASS
		6695	18.978	6685.4778	6704.4558	≤320	PASS
		6855	19.000	6845.4636	6864.4636	≤320	PASS
		6875	18.977	6865.4779	6884.4549	≤320	PASS
		7015	18.979	7005.4688	7024.4478	≤320	PASS
11AX40SISO	Ant3	7115	18.968	7105.4874	7124.4554	≤320	PASS
		5965	37.627	5946.1125	5983.7395	≤320	PASS
		6165	37.600	6146.1917	6183.7917	≤320	PASS
		6405	37.591	6386.1672	6423.7582	≤320	PASS
		6445	37.538	6426.1451	6463.6831	≤320	PASS
		6485	37.618	6466.1476	6503.7656	≤320	PASS
		6525	37.584	6506.1738	6543.7578	≤320	PASS
		6685	37.525	6666.2311	6703.7561	≤320	PASS
		6845	37.596	6826.1684	6863.7644	≤320	PASS
		6885	37.602	6866.1434	6903.7454	≤320	PASS
		7005	37.600	6986.1410	7023.7410	≤320	PASS
11AX80SISO	Ant3	7085	37.582	7066.1718	7103.7538	≤320	PASS
		5985	76.722	5946.4956	6023.2176	≤320	PASS
		6145	76.877	6106.6526	6183.5296	≤320	PASS
		6385	77.298	6346.2520	6423.5500	≤320	PASS
		6465	76.923	6426.4054	6503.3284	≤320	PASS
		6545	76.623	6506.5766	6583.1996	≤320	PASS
		6705	76.982	6666.5934	6743.5754	≤320	PASS
		6865	76.903	6826.5134	6903.4164	≤320	PASS
11AX160SISO	Ant3	6945	77.020	6906.4525	6983.4725	≤320	PASS
		7025	77.118	6986.4244	7063.5424	≤320	PASS
		6025	156.23	5946.5882	6102.8182	≤320	PASS
		6185	155.79	6107.2031	6262.9931	≤320	PASS
		6345	155.64	6266.8721	6422.5121	≤320	PASS
		6505	155.73	6426.3894	6582.1194	≤320	PASS
		6665	156.10	6587.4798	6743.5798	≤320	PASS
	Ant3	6825	156.43	6746.9721	6903.4021	≤320	PASS
		6985	155.67	6907.2951	7062.9651	≤320	PASS

11.2.2. Test Graphs



