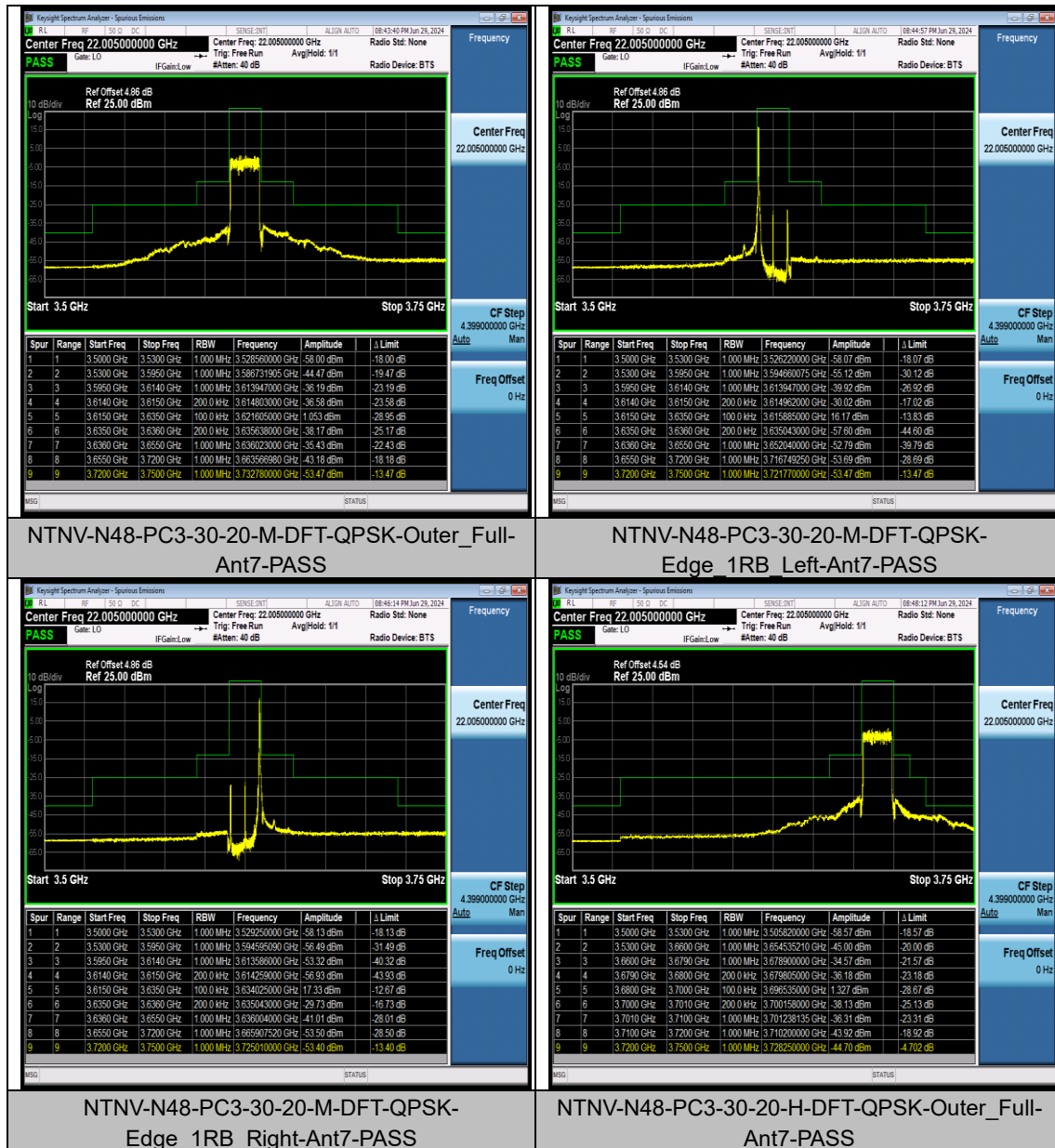
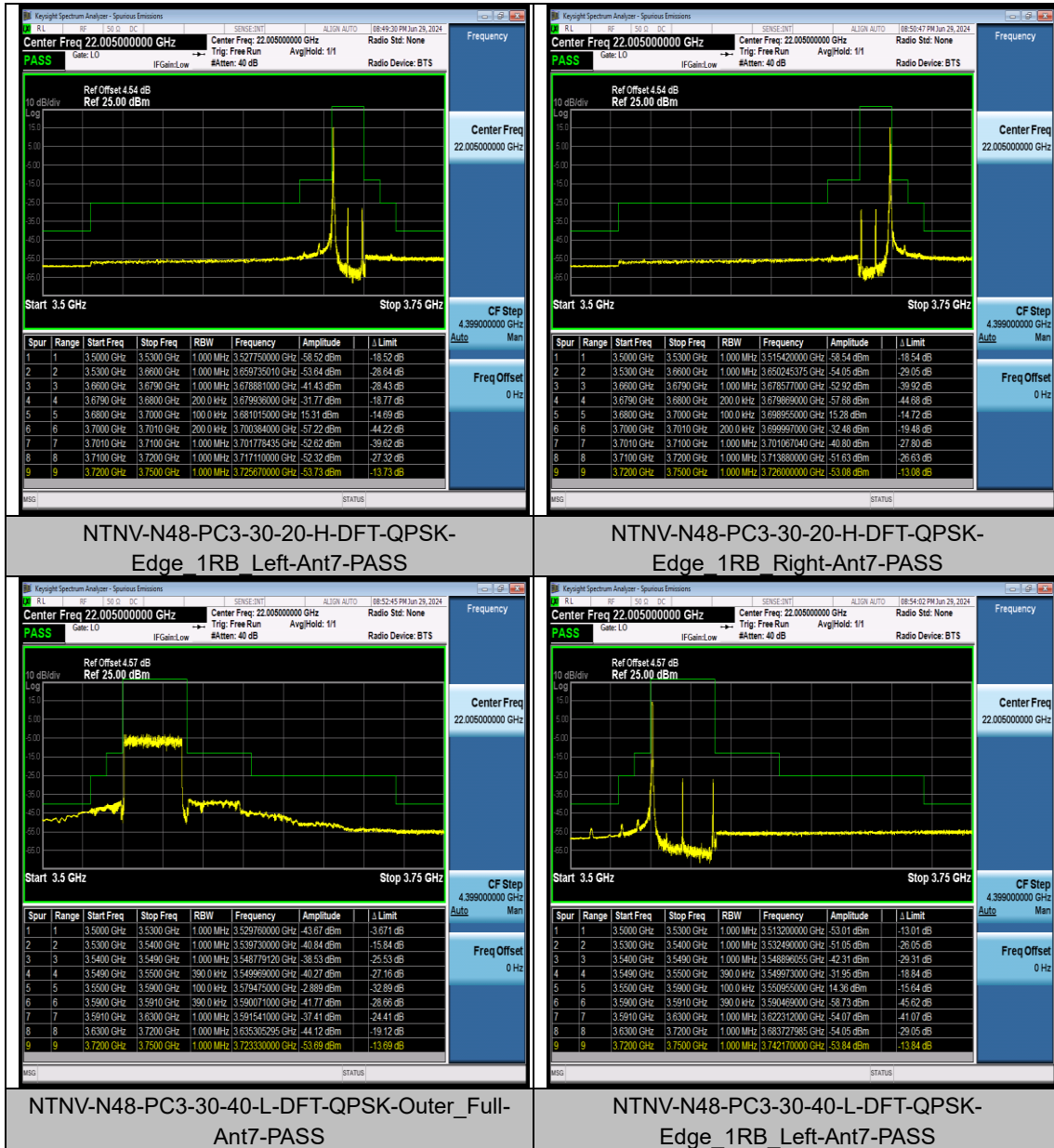
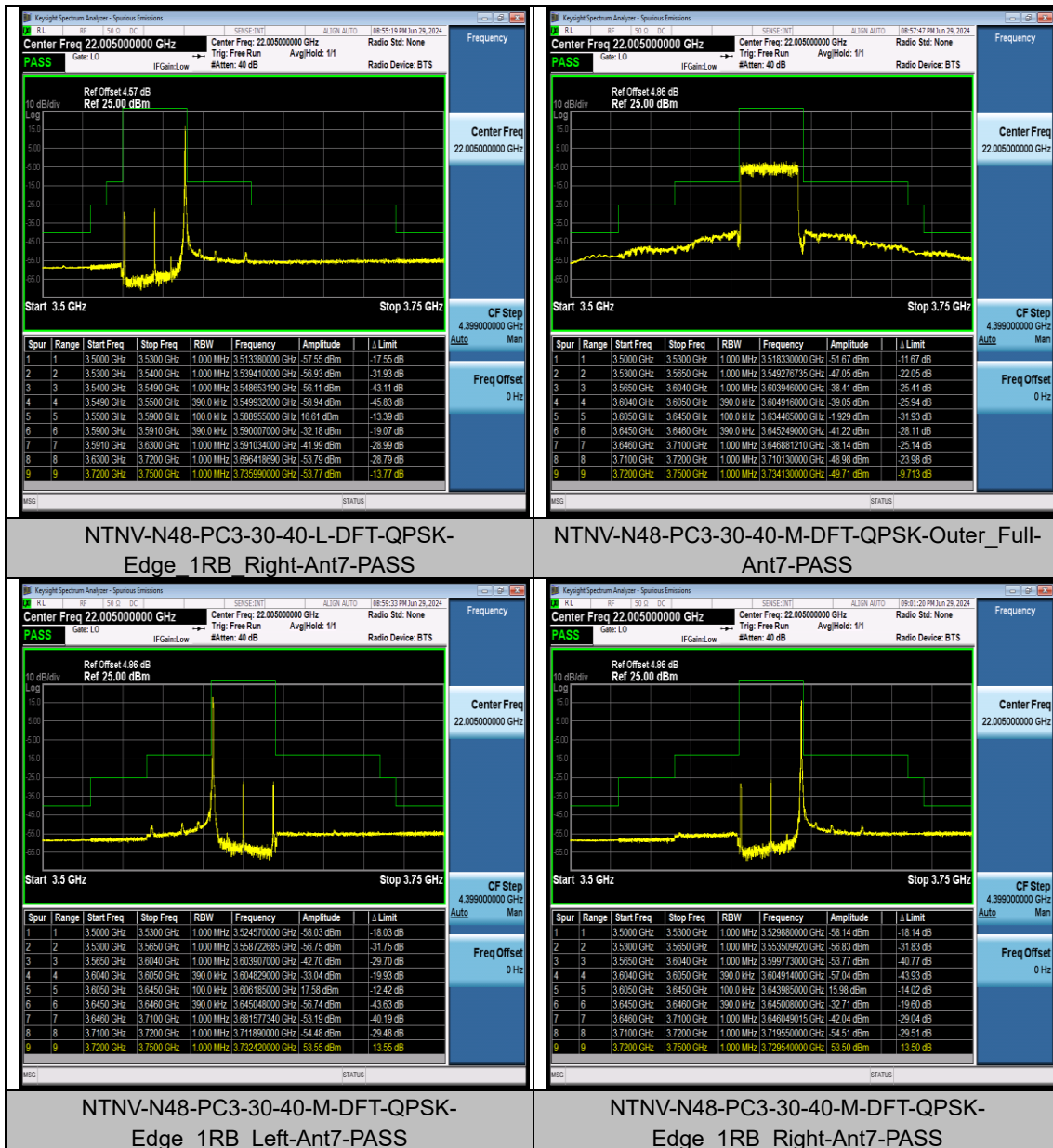
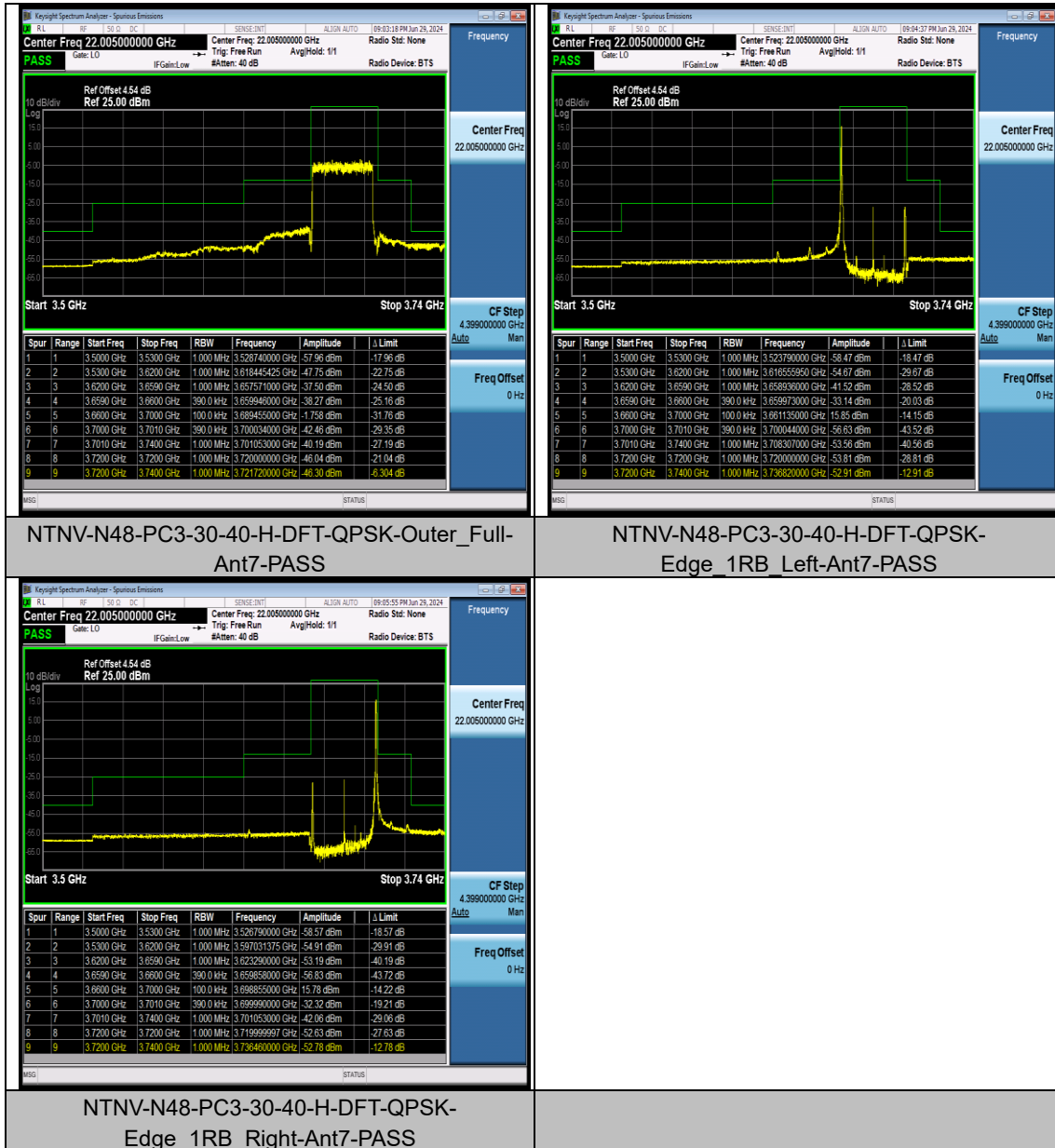






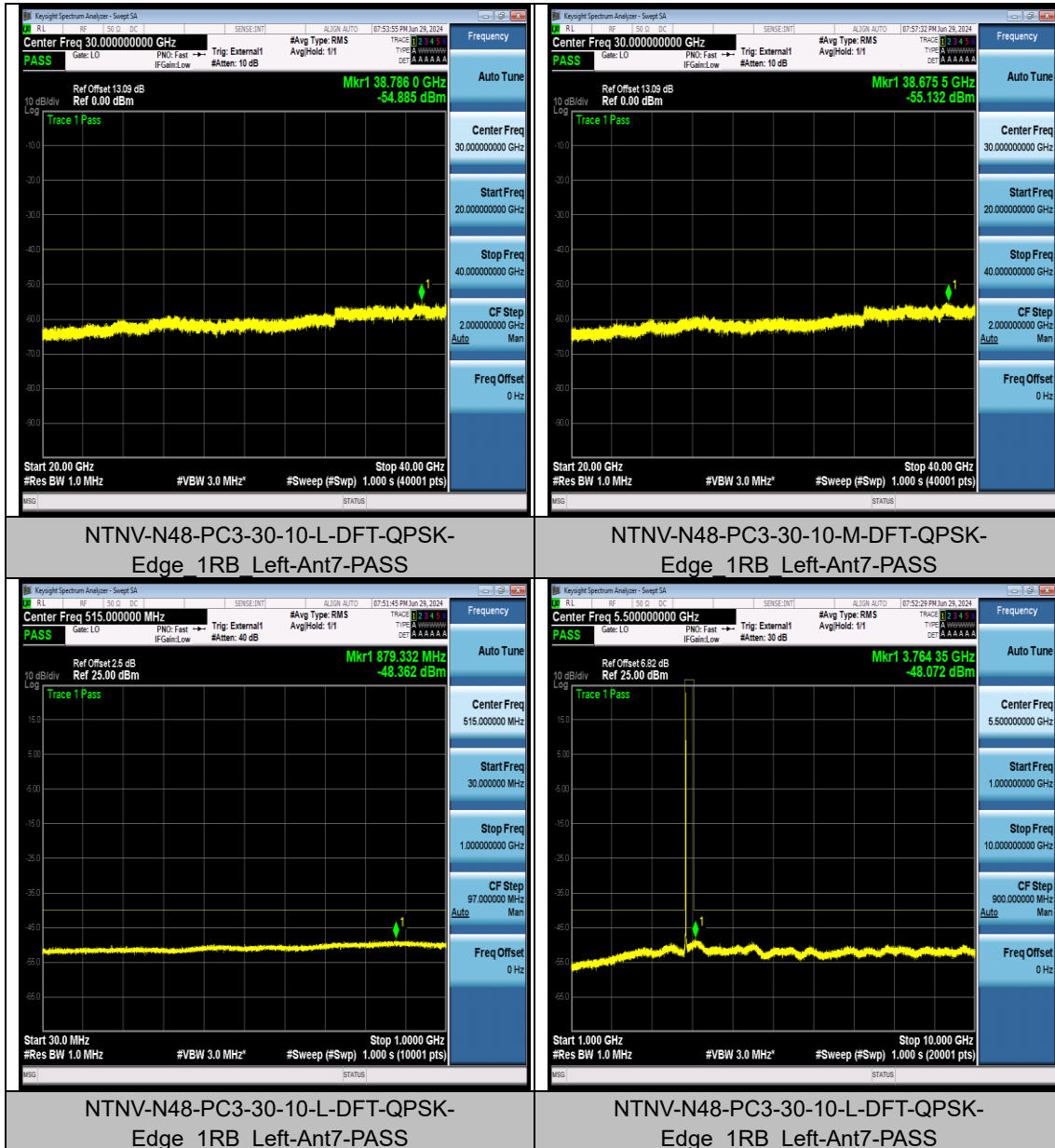


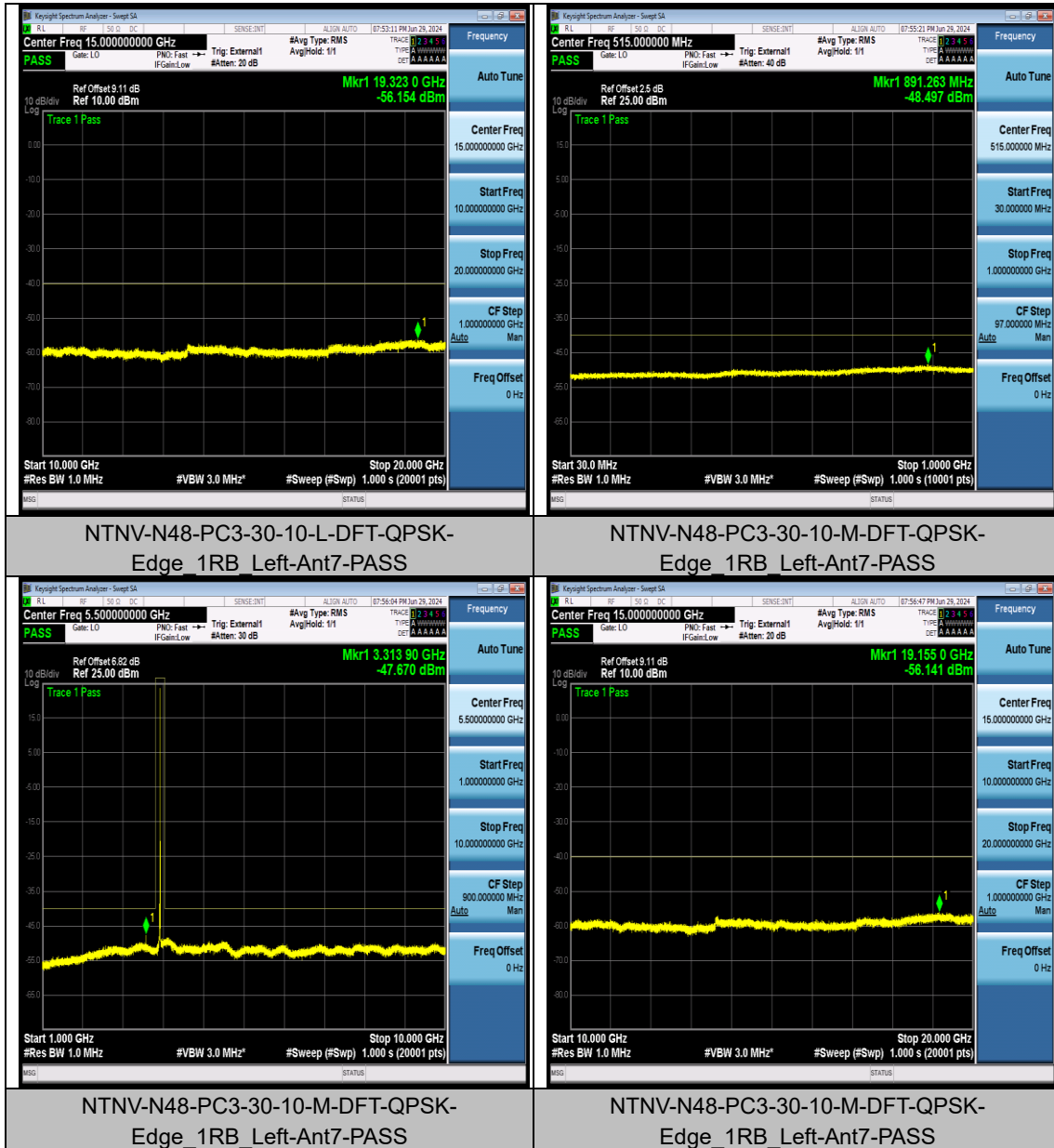


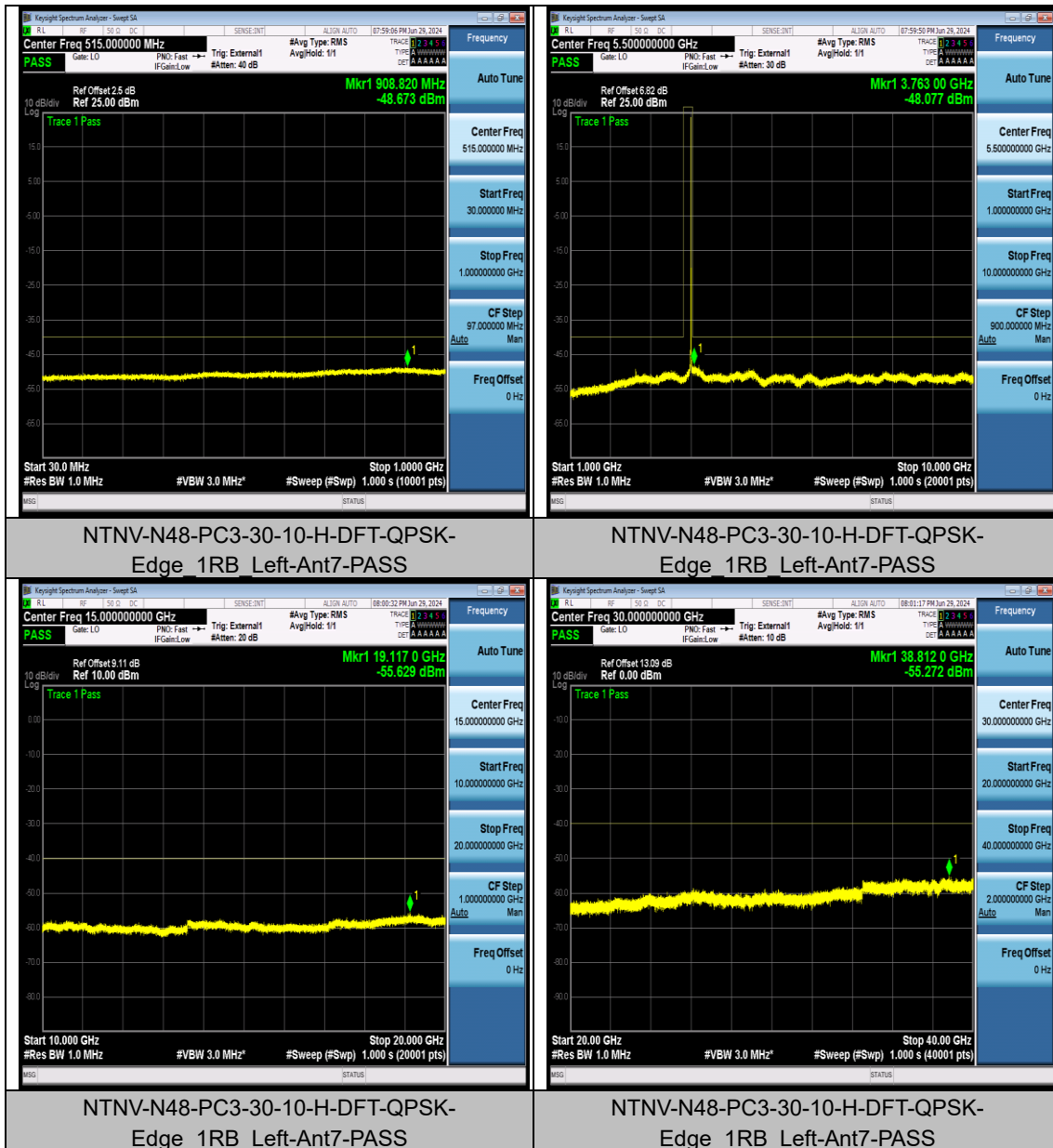
CONDUCTED SPURIOUS EMISSION FOR SA TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N48	30	10	DFT-QPSK	L	Edge 1RB Left	30	1000	-48.36	-40	PASS
N48	30	10	DFT-QPSK	L	Edge 1RB Left	1000	10000	-48.07	-40	PASS
N48	30	10	DFT-QPSK	L	Edge 1RB Left	10000	20000	-56.15	-40	PASS
N48	30	10	DFT-QPSK	L	Edge 1RB Left	20000	40000	-54.88	-40	PASS
N48	30	10	DFT-QPSK	M	Edge 1RB Left	30	1000	-48.50	-40	PASS
N48	30	10	DFT-QPSK	M	Edge 1RB Left	1000	10000	-47.67	-40	PASS
N48	30	10	DFT-QPSK	M	Edge 1RB Left	10000	20000	-56.14	-40	PASS
N48	30	10	DFT-QPSK	M	Edge 1RB Left	20000	40000	-55.13	-40	PASS
N48	30	10	DFT-QPSK	H	Edge 1RB Left	30	1000	-48.67	-40	PASS
N48	30	10	DFT-QPSK	H	Edge 1RB Left	1000	10000	-48.08	-40	PASS
N48	30	10	DFT-QPSK	H	Edge 1RB Left	10000	20000	-55.63	-40	PASS
N48	30	10	DFT-QPSK	H	Edge 1RB Left	20000	40000	-55.27	-40	PASS
N48	30	20	DFT-QPSK	L	Edge 1RB Left	30	1000	-48.48	-40	PASS
N48	30	20	DFT-QPSK	L	Edge 1RB Left	1000	10000	-48.45	-40	PASS
N48	30	20	DFT-QPSK	L	Edge 1RB Left	10000	20000	-55.78	-40	PASS
N48	30	20	DFT-QPSK	L	Edge 1RB Left	20000	40000	-55.25	-40	PASS
N48	30	20	DFT-QPSK	M	Edge 1RB Left	30	1000	-48.37	-40	PASS
N48	30	20	DFT-QPSK	M	Edge 1RB Left	1000	10000	-48.43	-40	PASS
N48	30	20	DFT-QPSK	M	Edge 1RB Left	10000	20000	-55.76	-40	PASS
N48	30	20	DFT-QPSK	M	Edge 1RB Left	20000	40000	-55.34	-40	PASS
N48	30	20	DFT-QPSK	H	Edge 1RB Left	30	1000	-48.20	-40	PASS
N48	30	20	DFT-QPSK	H	Edge 1RB Left	1000	10000	-48.41	-40	PASS
N48	30	20	DFT-QPSK	H	Edge 1RB Left	10000	20000	-56.11	-40	PASS
N48	30	20	DFT-QPSK	H	Edge 1RB Left	20000	40000	-55.22	-40	PASS
N48	30	40	DFT-QPSK	L	Edge 1RB Left	30	1000	-48.62	-40	PASS
N48	30	40	DFT-QPSK	L	Edge 1RB Left	1000	10000	-47.29	-40	PASS
N48	30	40	DFT-QPSK	L	Edge 1RB Left	10000	20000	-56.25	-40	PASS
N48	30	40	DFT-QPSK	L	Edge 1RB Left	20000	40000	-55.28	-40	PASS
N48	30	40	DFT-QPSK	M	Edge 1RB Left	30	1000	-48.49	-40	PASS
N48	30	40	DFT-QPSK	M	Edge 1RB Left	1000	10000	-48.21	-40	PASS
N48	30	40	DFT-QPSK	M	Edge 1RB Left	10000	20000	-56.17	-40	PASS
N48	30	40	DFT-QPSK	M	Edge 1RB Left	20000	40000	-54.78	-40	PASS
N48	30	40	DFT-QPSK	H	Edge 1RB Left	30	1000	-48.56	-40	PASS
N48	30	40	DFT-QPSK	H	Edge 1RB Left	1000	10000	-48.30	-40	PASS
N48	30	40	DFT-QPSK	H	Edge 1RB Left	10000	20000	-56.01	-40	PASS
N48	30	40	DFT-QPSK	H	Edge 1RB Left	20000	40000	-55.02	-40	PASS

TEST GRAPHS

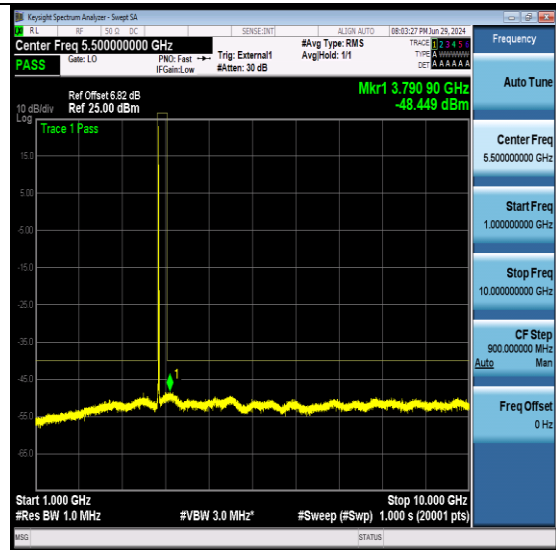








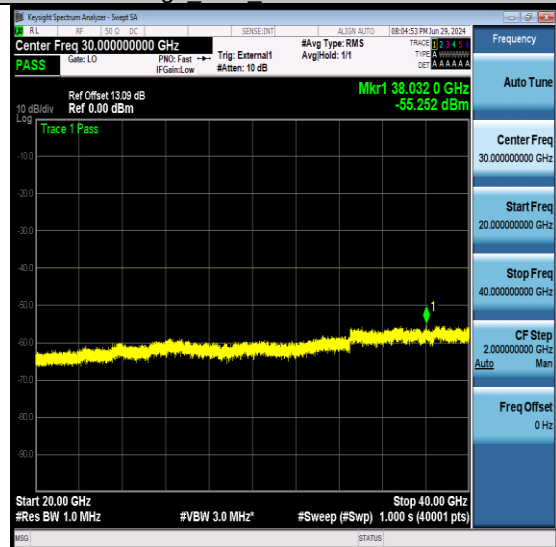
NTNV-N48-PC3-30-20-L-DFT-QPSK-
Edge 1RB Left-Ant7-PASS



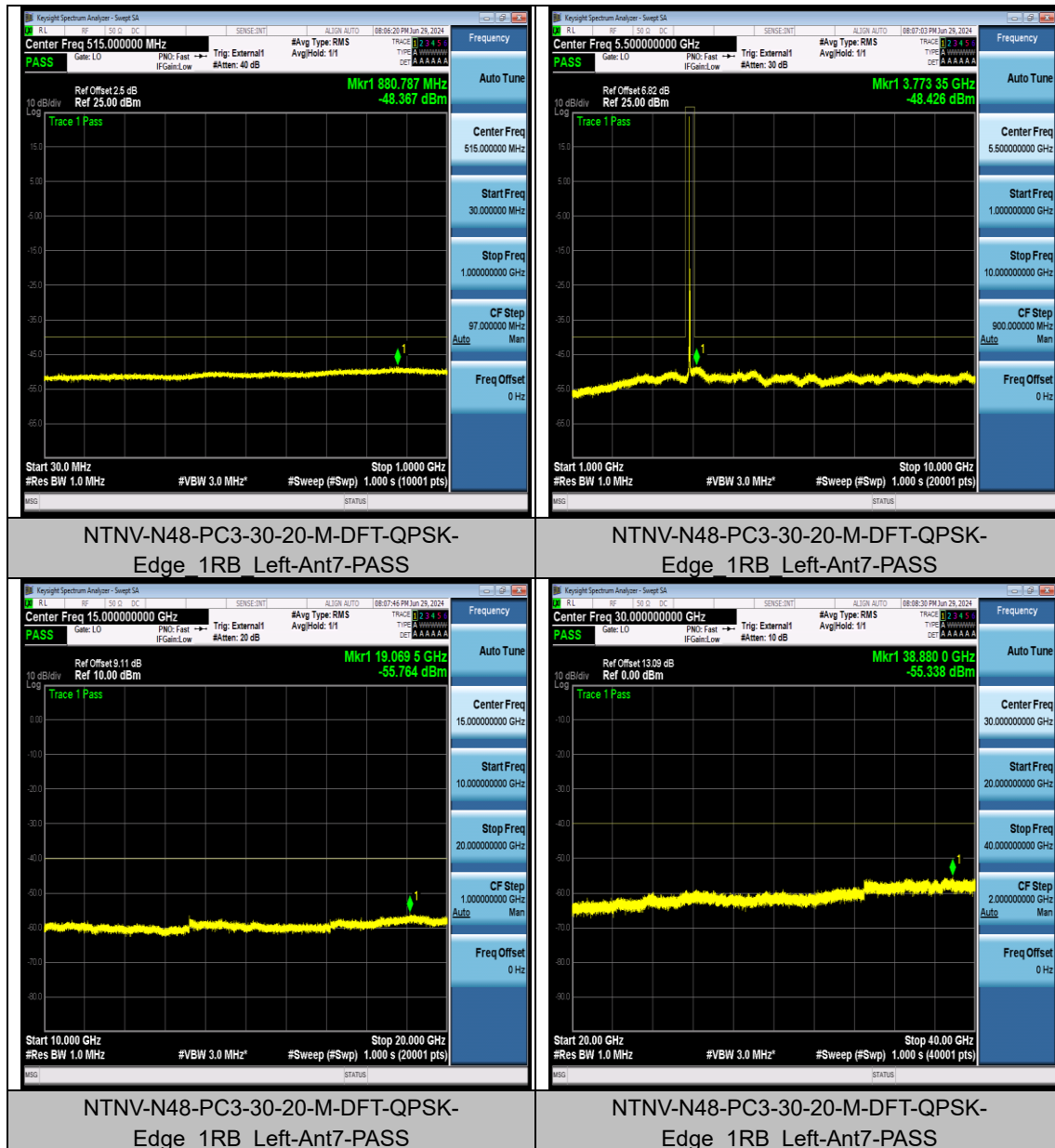
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Edge 1RB Left-Ant7-PASS

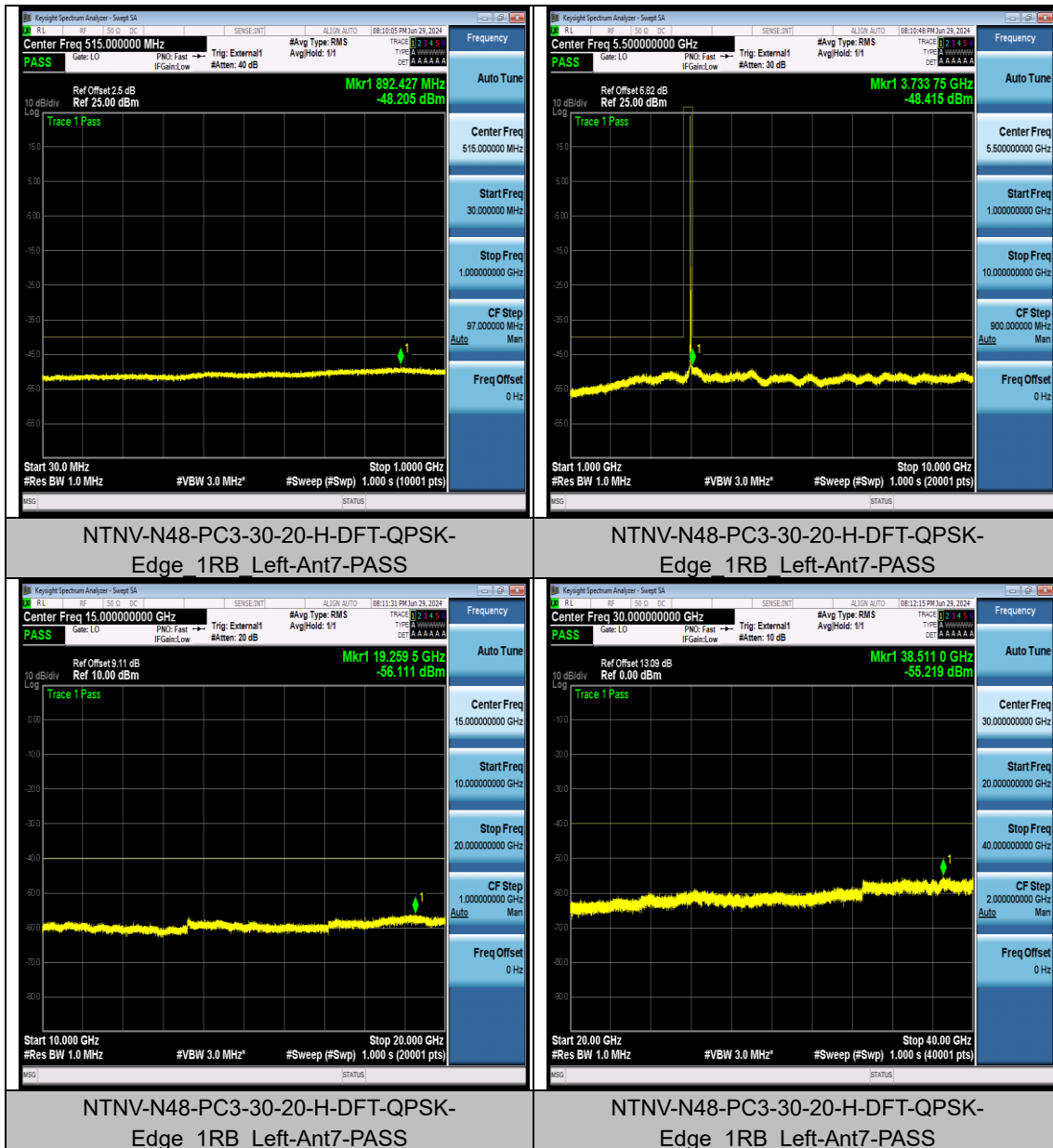


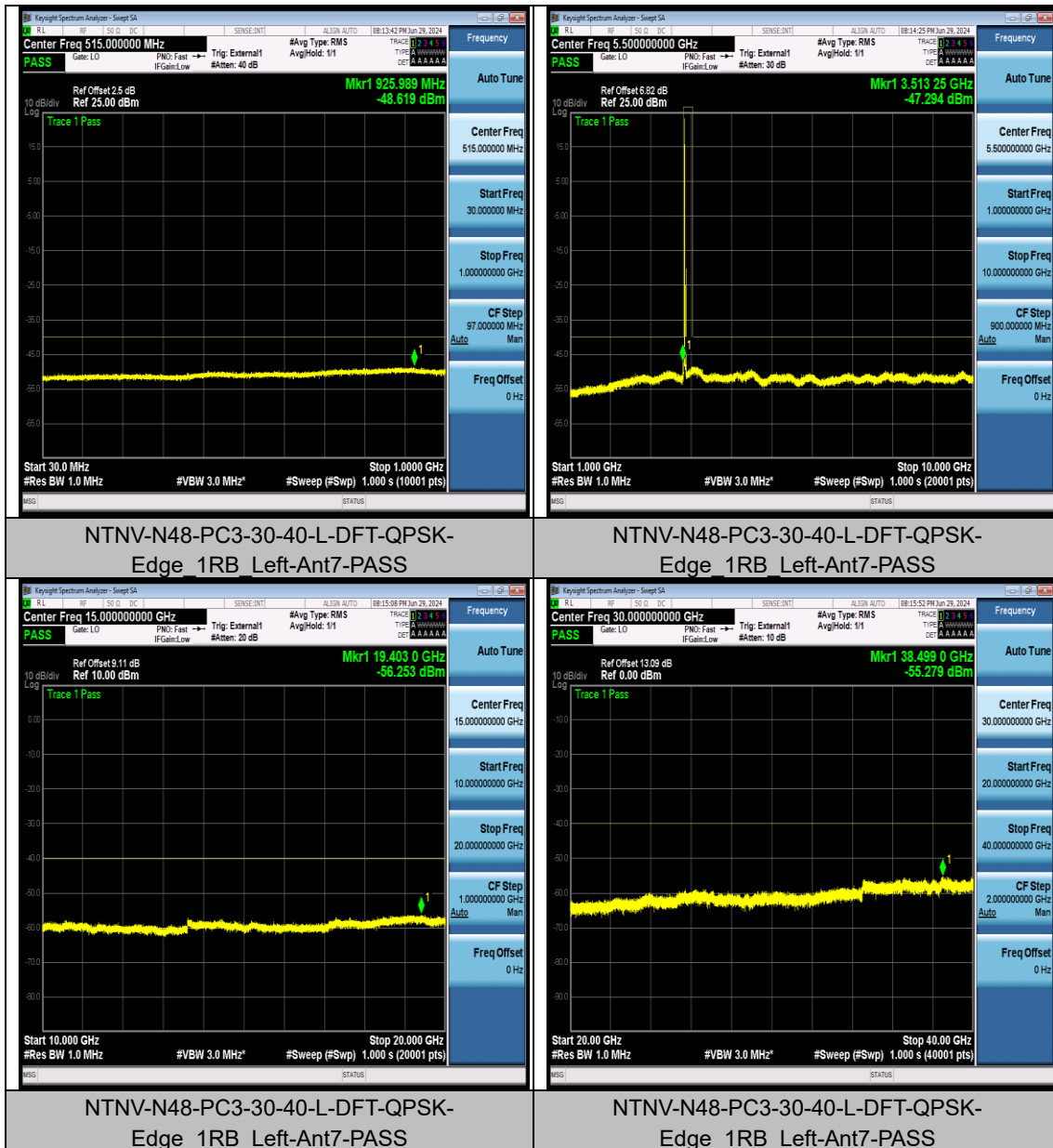
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Edge 1RB Left-Ant7-PASS

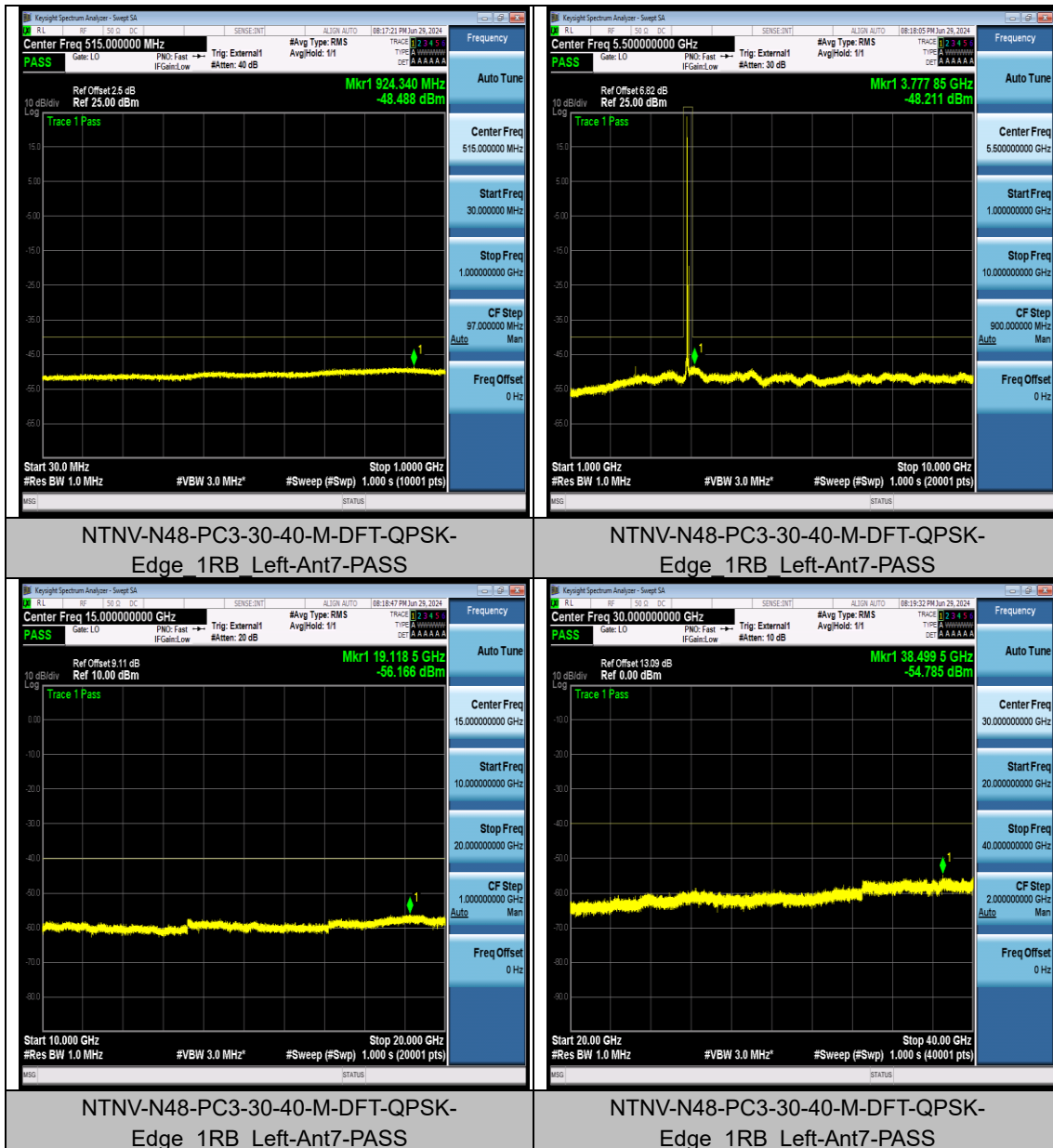


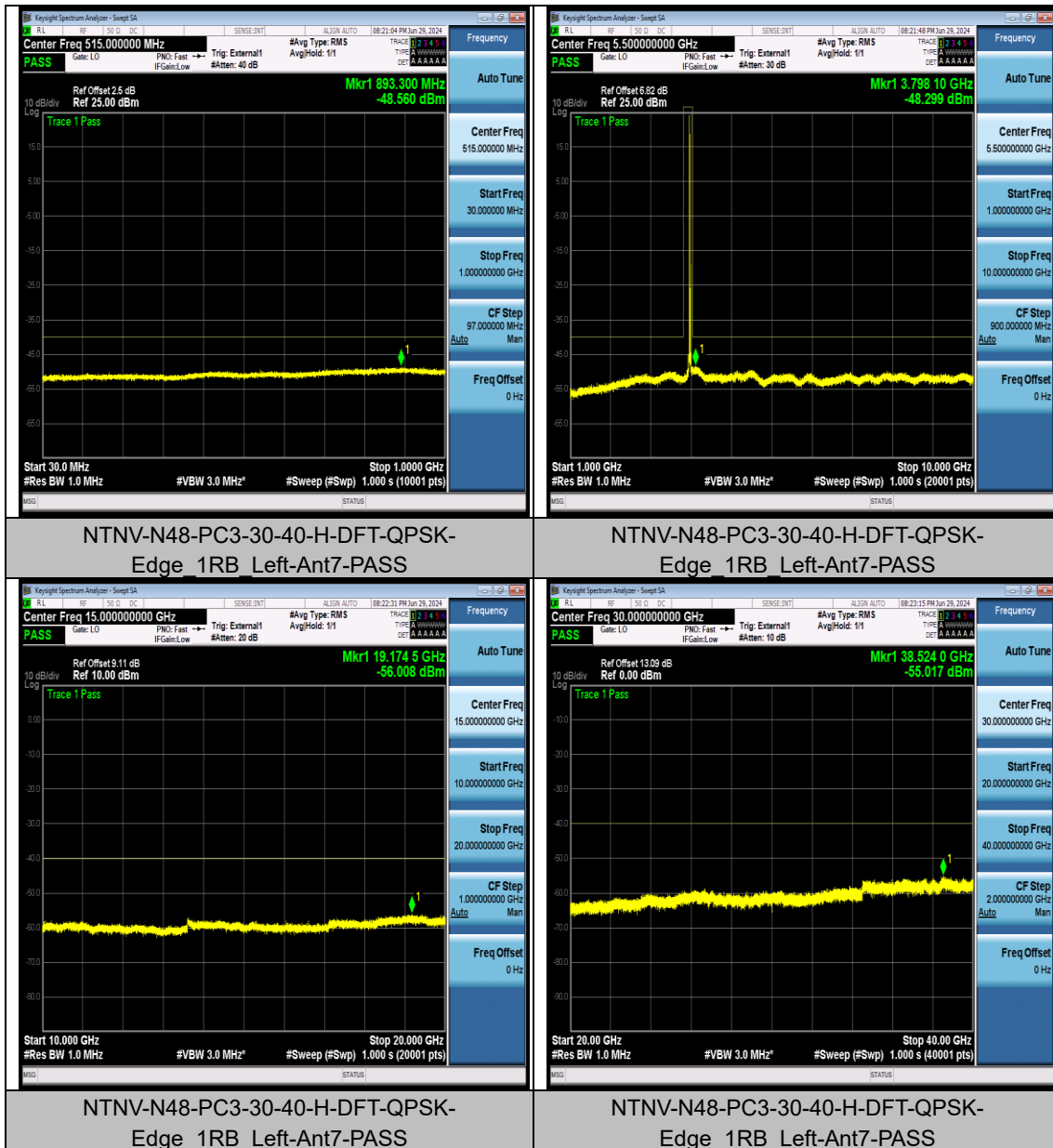
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Edge 1RB Left-Ant7-PASS











FREQUENCY STABILITY FOR SA TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N48	30	20	DFT-QPSK	L	Outer Full	VL	NT	13.000000	0.003652	PASS
N48	30	20	DFT-QPSK	L	Outer Full	VN	NT	15.000000	0.004213	PASS
N48	30	20	DFT-QPSK	L	Outer Full	VH	NT	5.000000	0.001404	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	-30	19.000000	0.005337	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	-20	18.000000	0.005056	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	-10	9.000000	0.002528	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	0	10.000000	0.002809	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	10	1.000000	0.000281	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	20	11.000000	0.003090	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	30	3.000000	0.000843	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	40	13.000000	0.003652	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	50	14.000000	0.003933	PASS
N48	30	20	DFT-QPSK	M	Outer Full	VL	NT	11.000000	0.003034	PASS
N48	30	20	DFT-QPSK	M	Outer Full	VN	NT	10.000000	0.002759	PASS
N48	30	20	DFT-QPSK	M	Outer Full	VH	NT	1.000000	0.000276	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	-30	12.000000	0.003310	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	-20	19.000000	0.005241	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	-10	11.000000	0.003034	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	0	19.000000	0.005241	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	10	11.000000	0.003034	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	20	2.000000	0.000552	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	30	13.000000	0.003586	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	40	4.000000	0.001103	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	50	4.000000	0.001103	PASS
N48	30	20	DFT-QPSK	H	Outer Full	VL	NT	9.000000	0.002439	PASS
N48	30	20	DFT-QPSK	H	Outer Full	VN	NT	14.000000	0.003794	PASS
N48	30	20	DFT-QPSK	H	Outer Full	VH	NT	6.000000	0.001626	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	-30	16.000000	0.004336	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	-20	5.000000	0.001355	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	-10	15.000000	0.004065	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	0	3.000000	0.000813	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	10	14.000000	0.003794	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	20	5.000000	0.001355	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	30	16.000000	0.004336	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	40	7.000000	0.001897	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	50	15.000000	0.004065	PASS

RADIATED EMISSION MEASUREMENT

TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA

30 MHz – 1GHz data:

n48

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE		TX channel 646332			FREQUENCY RANGE		Below 1000MHz	
ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			INPUT POWER		DC 5V	
TESTED BY		Jack Liu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	31.900	-67.42	-40.00	27.42	-0.47	H	355.8	2.00
1	59.800	-75.33	-40.00	35.33	-4.38	H	188.6	2.00
1	114.200	-82.80	-40.00	42.80	-12.60	H	84.6	2.00
1	238.400	-67.68	-40.00	27.68	0.09	H	120.5	2.00
1	428.250	-77.78	-40.00	37.78	1.94	H	102.1	1.00
2	861.583	-72.98	-40.00	32.98	5.72	H	106.1	2.00

MODE	TX channel 646332		FREQUENCY RANGE		Below 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH		INPUT POWER		DC 5V			
TESTED BY	Jack Liu							
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	33.200	-69.31	-40.00	29.31	-6.83	V	207.2	1.00
1	58.650	-73.85	-40.00	33.85	-3.51	V	320.8	1.00
1	98.400	-68.07	-40.00	28.07	4.75	V	287.9	2.00
1	238.400	-79.35	-40.00	39.35	-6.31	V	1.8	2.00
1	433.300	-77.85	-40.00	37.85	1.20	V	285	1.00
2	864.242	-72.32	-40.00	32.32	5.07	V	299.3	1.00

ABOVE 1GHz WORST-CASE DATA

Note: For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

n48

CHANNEL BANDWIDTH: 10MHz / QPSK

CH646332

MODE		TX channel 646332			FREQUENCY RANGE		Above 1000MHz	
ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			INPUT POWER		DC 5V	
TESTED BY		Jack Liu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,380.900	-55.29	-40.00	15.29	18.99	H	250.2	1.00
6	11,071.440	-58.96	-40.00	18.96	11.94	H	1	1.00

MODE		TX channel 646332			FREQUENCY RANGE		Above 1000MHz	
ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			INPUT POWER		DC 5V	
TESTED BY		Jack Liu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,380.960	-56.40	-40.00	16.40	18.99	V	359	1.00
6	11,071.400	-58.37	-40.00	18.37	11.94	V	9.3	2.00

--END--