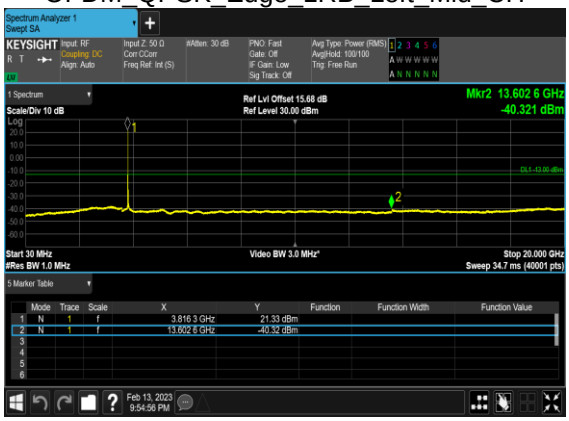
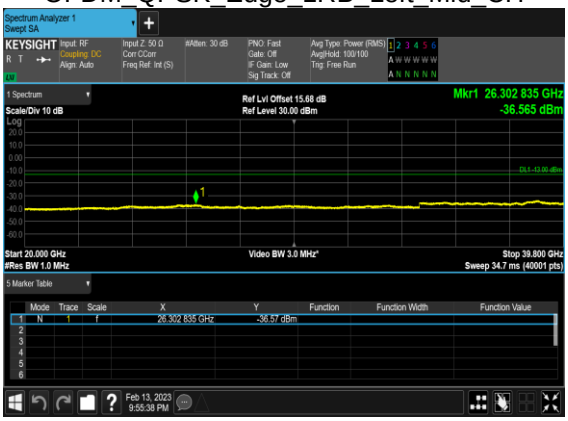
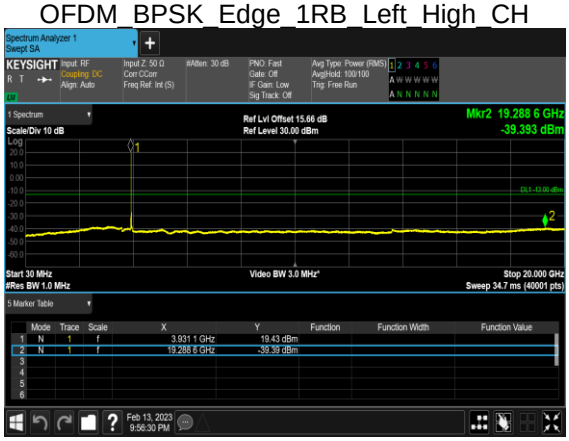
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



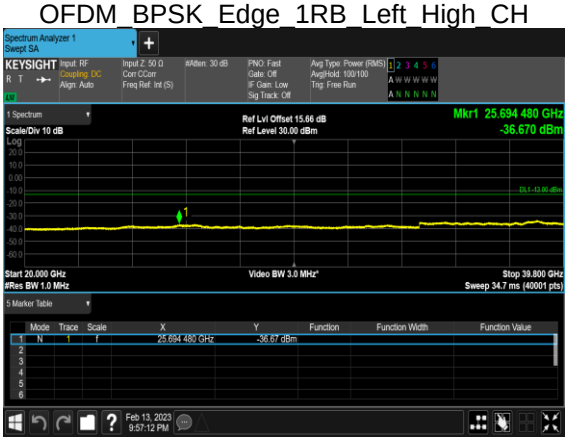
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



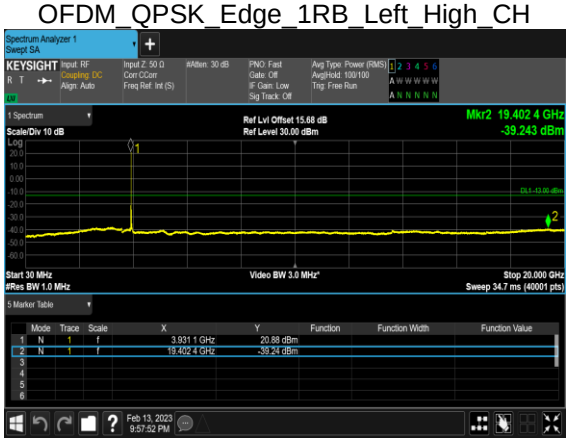
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



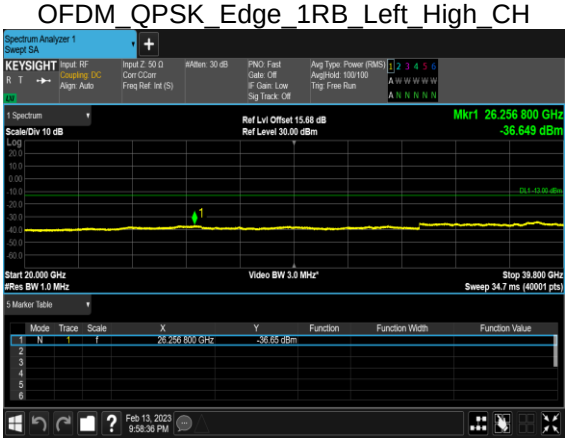
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



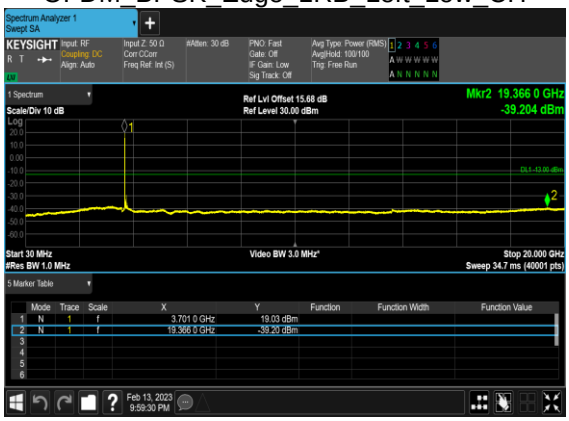
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



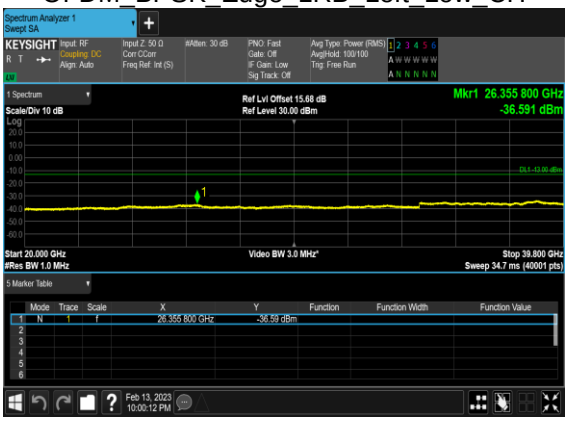
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



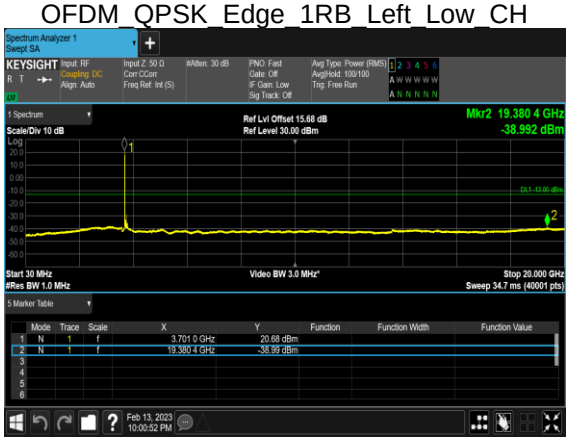
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



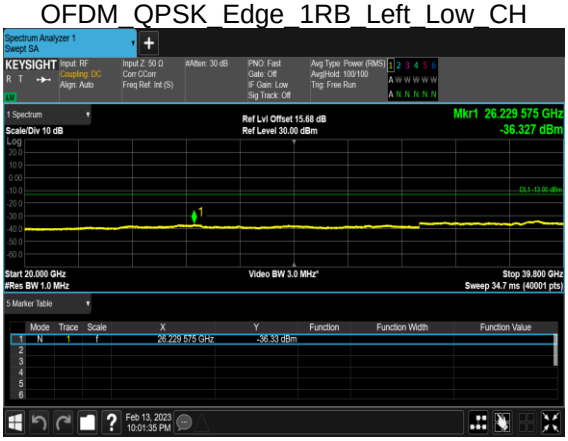
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



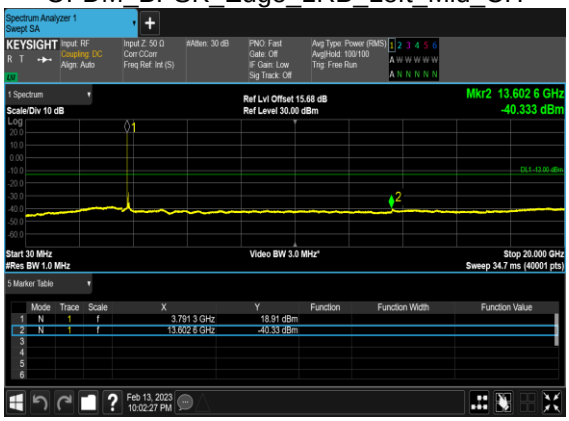
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



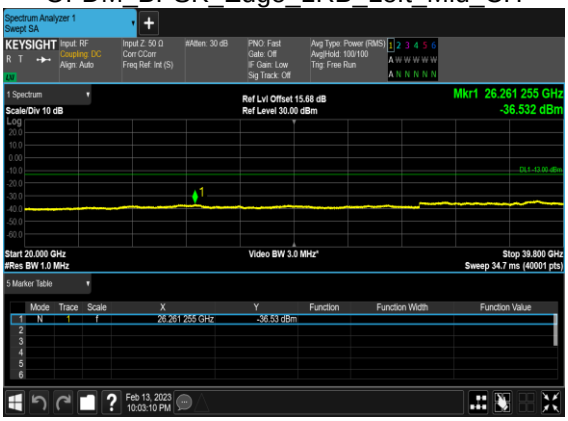
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



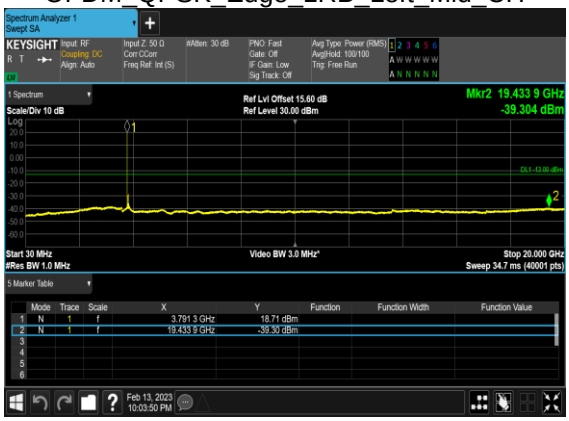
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



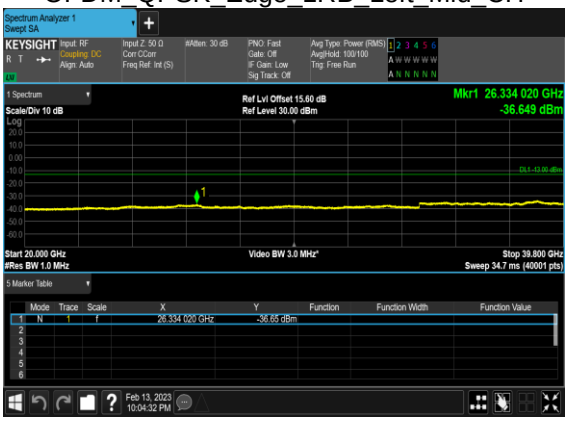
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



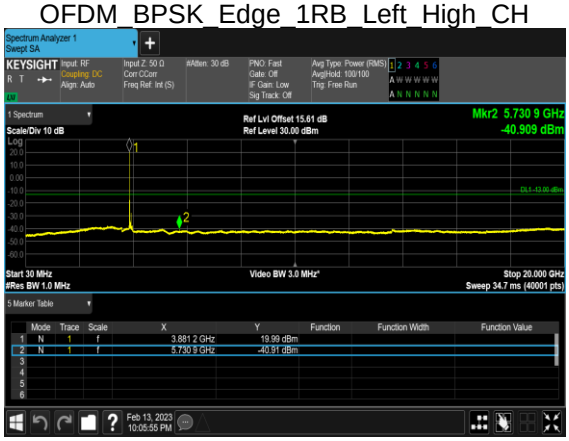
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



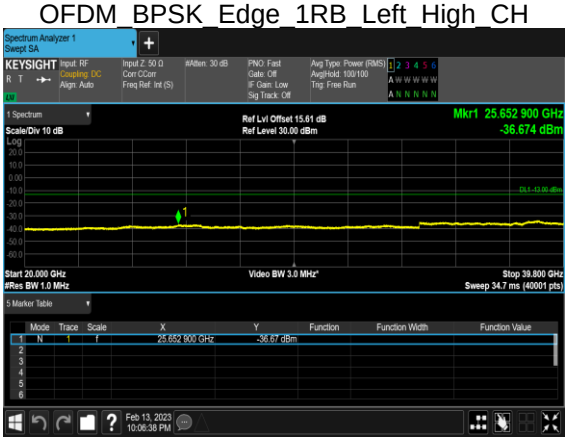
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



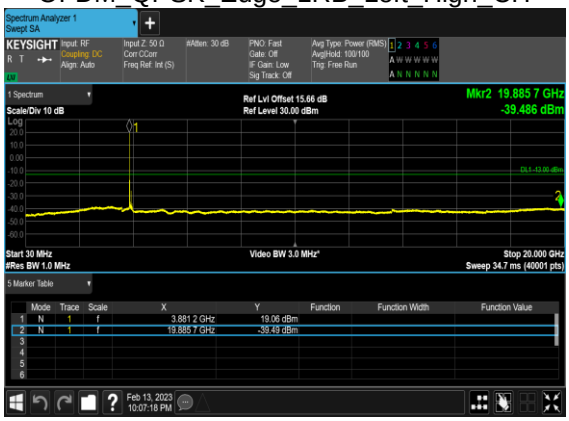
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



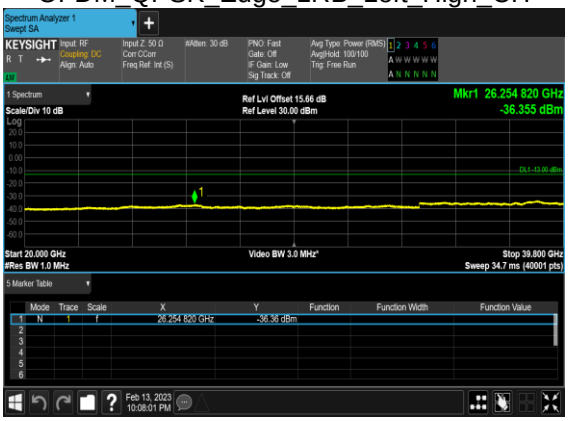
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



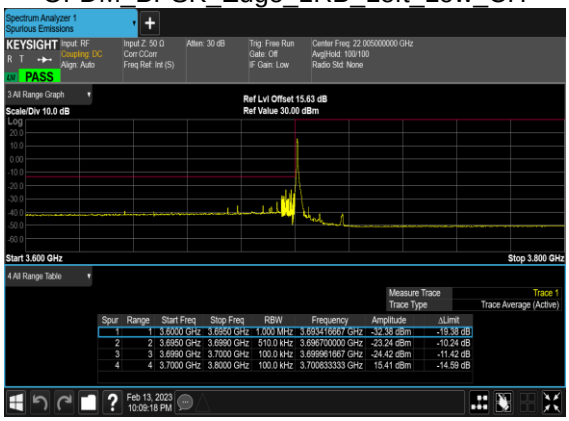
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



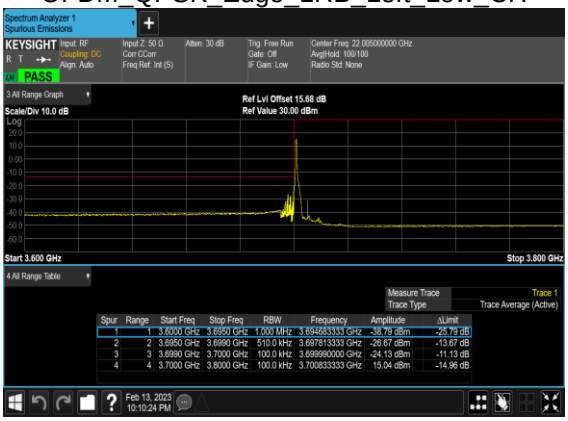
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@23	see graph	**PASS**
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@23	see graph	**PASS**
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@132	see graph	**PASS**
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@132	see graph	**PASS**
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@272	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@272	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	270@0	see graph	**PASS**

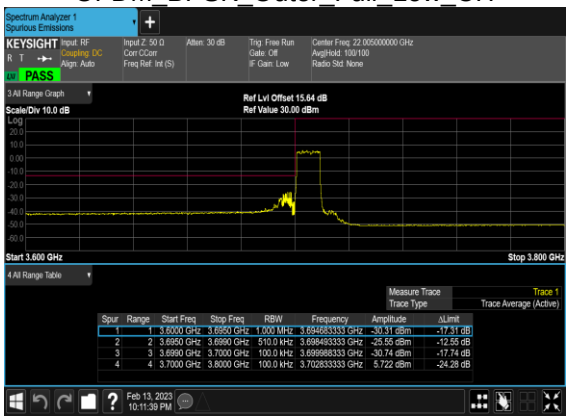
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



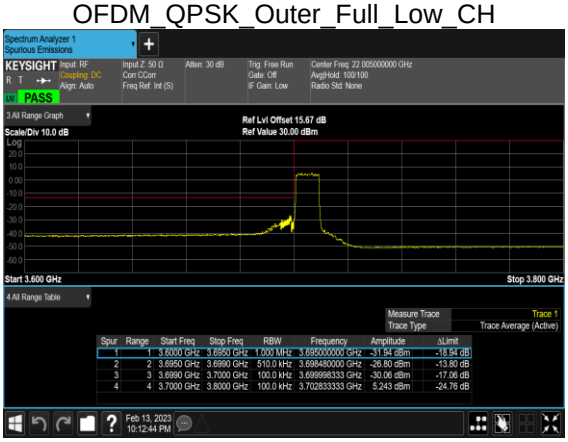
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

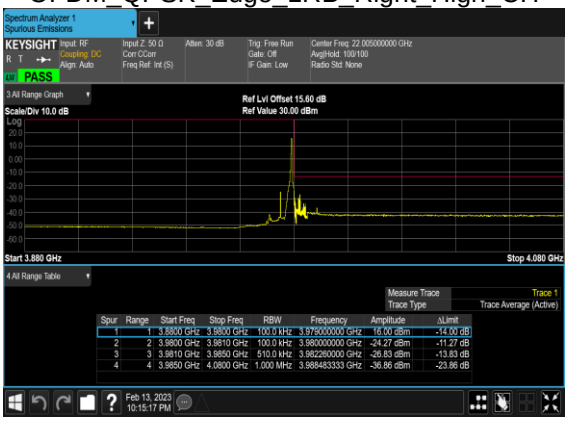


N77(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

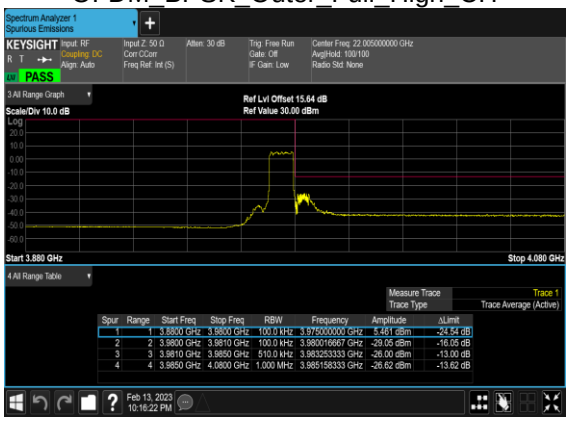


N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

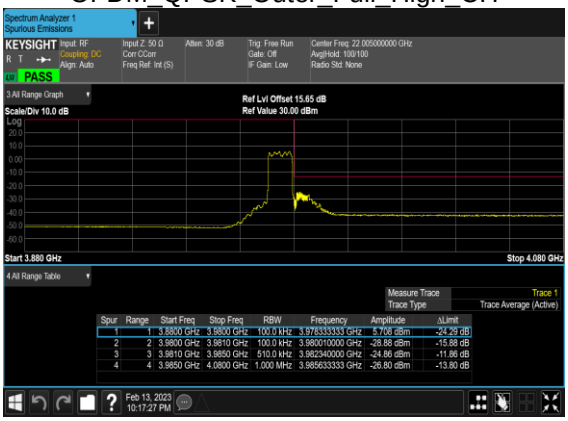
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



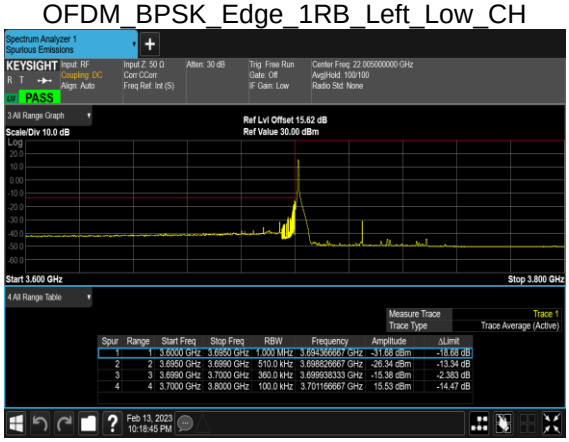
N77(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



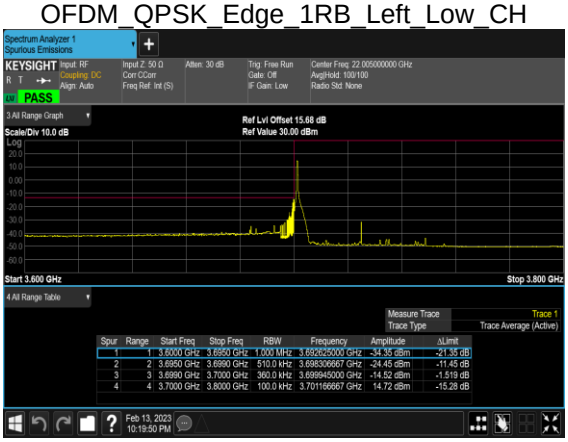
N77(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

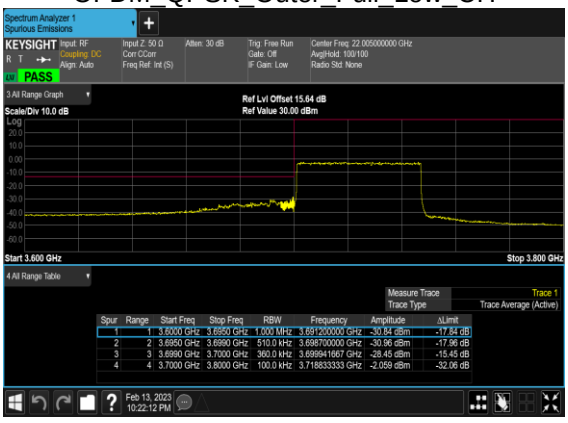


N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



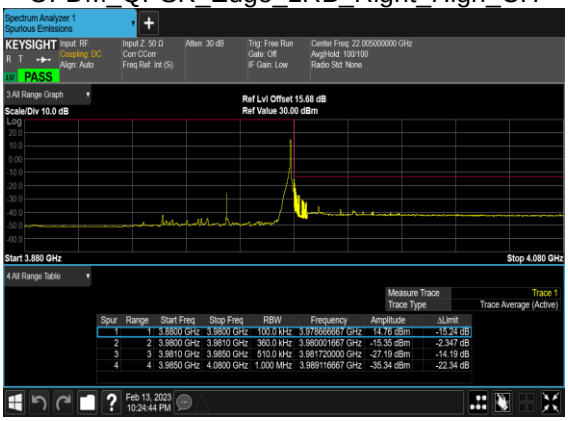
N77(50M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

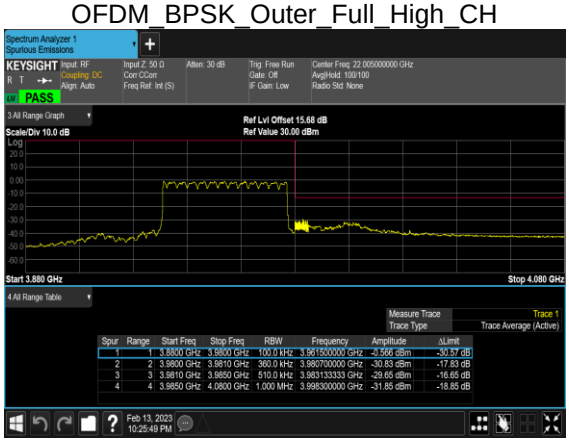


N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

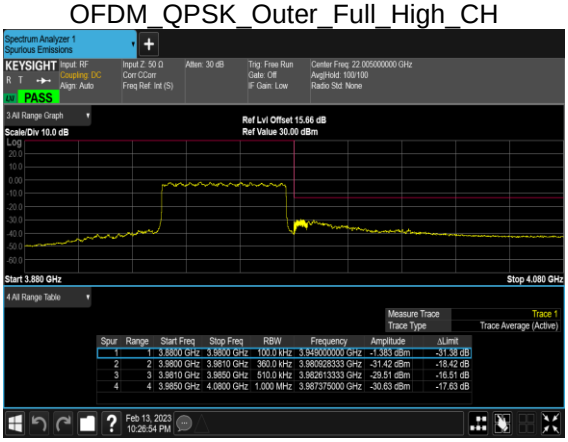
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



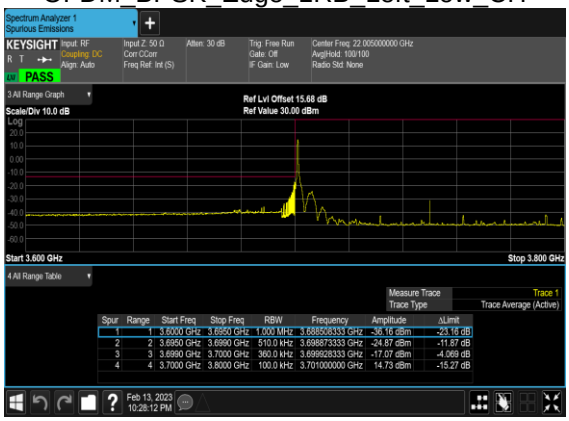
N77(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



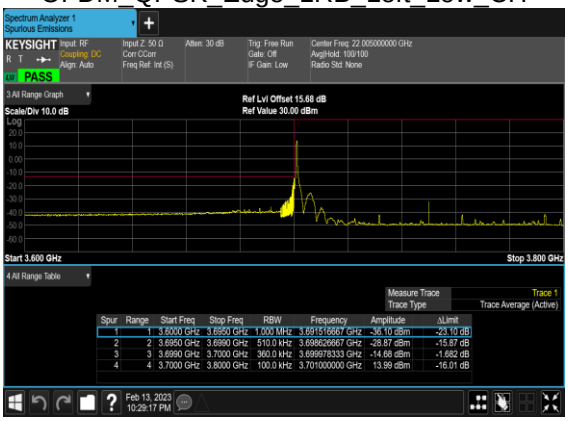
N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



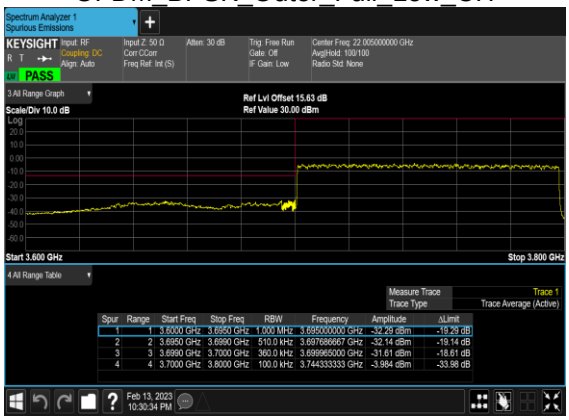
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



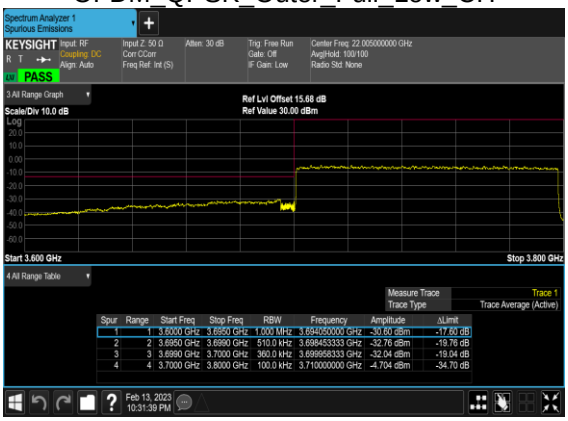
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



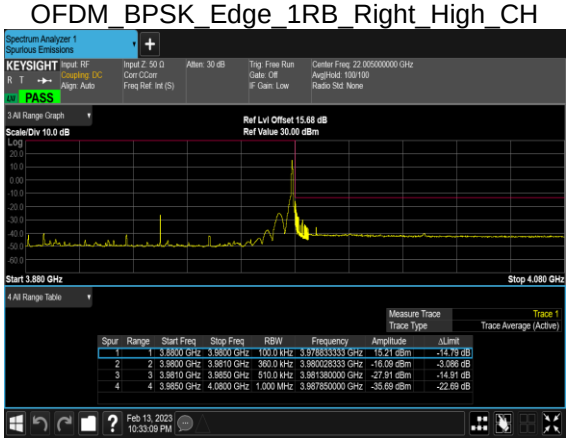
N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



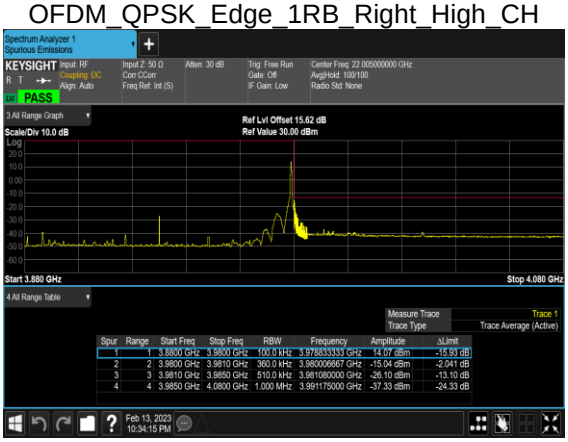
N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



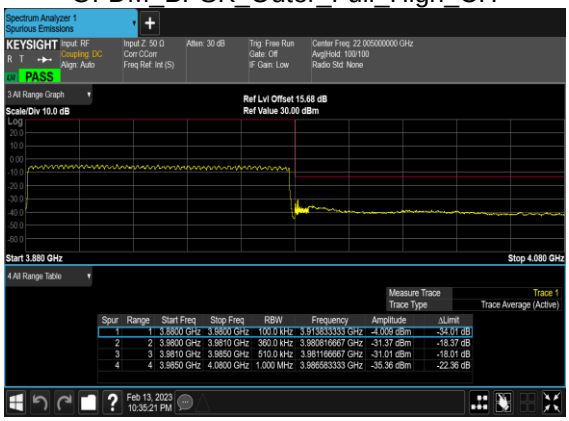
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



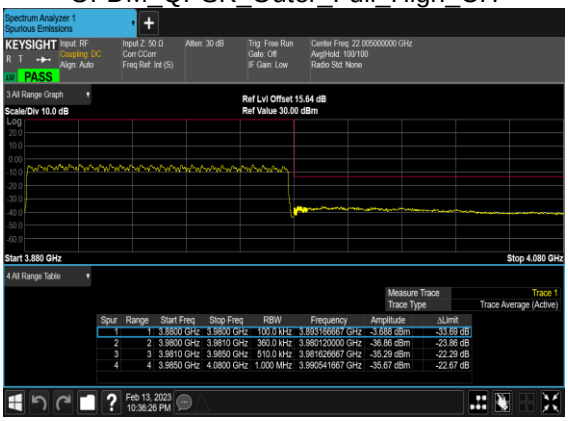
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N77(100M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N77(100M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



Software Version: 22.12.120701

FR1 N78

Transmitter Conducted Output Power and EIRP, (G_T - L_C)=-3dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
78	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	26.11	23.11	0.2046
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	25.2	22.2	0.1660
78	30	10	650000	3750	DFT-s-OFDM QPSK	1@1	26.07	23.07	0.2028
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.05	22.05	0.1603
78	30	10	653000	3795	DFT-s-OFDM QPSK	1@1	26.14	23.14	0.2061
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	25.11	22.11	0.1626
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	26.18	23.18	0.2080
78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	25.17	22.17	0.1648
78	30	15	650000	3750	DFT-s-OFDM QPSK	1@1	26.09	23.09	0.2037
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.88	21.88	0.1542
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	1@1	26.07	23.07	0.2028
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	1@1	24.85	21.85	0.1531
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	26.12	23.12	0.2051
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	24.91	21.91	0.1552
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	25.98	22.98	0.1986
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.92	21.92	0.1556
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	25.95	22.95	0.1972
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	24.91	21.91	0.1552
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.84	22.84	0.1923
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	24.73	21.73	0.1489
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	25.75	22.75	0.1884
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.94	21.94	0.1563
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	25.7	22.7	0.1862
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	24.87	21.87	0.1538
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	25.67	22.67	0.1849
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	24.74	21.74	0.1493
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	25.67	22.67	0.1849
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.89	21.89	0.1545
78	30	40	652000	3780	DFT-s-OFDM	1@1	25.6	22.6	0.1820

					QPSK				
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	24.79	21.79	0.1510
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	26.03	23.03	0.2009
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	25.19	22.19	0.1656
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	25.97	22.97	0.1982
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.09	22.09	0.1618
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	25.88	22.88	0.1941
78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	25.04	22.04	0.1600
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	25.83	22.83	0.1919
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	25.01	22.01	0.1589
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	25.77	22.77	0.1892
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.78	21.78	0.1507
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	25.75	22.75	0.1884
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	24.87	21.87	0.1538
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	25.66	22.66	0.1845
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	24.47	21.47	0.1403
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	25.63	22.63	0.1832
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.41	21.41	0.1384
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	25.62	22.62	0.1828
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	24.48	21.48	0.1406
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	25.46	22.46	0.1762
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	24.32	21.32	0.1355
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	25.42	22.42	0.1746
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.27	21.27	0.1340
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	25.5	22.5	0.1778
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	24.3	21.3	0.1349
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	26.21	23.21	0.2094
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.35	22.35	0.1718
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	25.4	22.4	0.1738
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	26.14	23.14	0.2061
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	25.28	22.28	0.1690
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	25.35	22.35	0.1718
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	25.14	22.14	0.1637
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.33	21.33	0.1358
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	24.44	21.44	0.1393

78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	23.64	20.64	0.1159
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	22.9	19.9	0.0977
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	22.86	19.86	0.0968
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	21.69	18.69	0.0740
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	20.7	17.7	0.0589
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	20.79	17.79	0.0601
78	30	100	650000	3750	CP-OFDM QPSK	137@68	24.61	21.61	0.1449
78	30	100	650000	3750	CP-OFDM QPSK	1@1	23.93	20.93	0.1239
78	30	100	650000	3750	CP-OFDM QPSK	1@271	23.89	20.89	0.1227

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Carry Xu	Temperature :	23~25℃
		Relative Humidity :	41~42%

RSE pre-scanned harmonic for different antennas and ENDC combos, choose the worst mode perform final test and record in the report.

n77 SA / NR 100MHz / QPSK(ANT2)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7584	-62.00	-13	-49.00	-72.48	2.76	13.24	H
	11376	-51.43	-13	-38.43	-61.02	3.42	13.01	H
	15180	-57.99	-13	-44.99	-67.60	3.83	13.44	H
	7584	-58.10	-13	-45.10	-68.54	2.80	13.24	V
	11376	-48.84	-13	-35.84	-58.39	3.46	13.01	V
	15180	-58.29	-13	-45.29	-67.85	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

n78 SA / NR 100MHz / QPSK(ANT2)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7416	-62.30	-13	-49.30	-72.78	2.76	13.24	H
	11100	-49.04	-13	-36.04	-58.63	3.42	13.01	H
	14820	-58.29	-13	-45.29	-67.90	3.83	13.44	H
	7416	-62.33	-13	-49.33	-72.77	2.80	13.24	V
	11100	-50.68	-13	-37.68	-60.23	3.46	13.01	V
	14820	-58.43	-13	-45.43	-67.99	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_41A_n78A / LTE 20MHz + NR 100MHz / QPSK(0+2)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7404	-61.32	-13	-48.32	-71.80	2.76	13.24	H
	11100	-53.09	-13	-40.09	-62.68	3.42	13.01	H
	14820	-58.31	-13	-45.31	-67.92	3.83	13.44	H
	7404	-60.22	-13	-47.22	-70.66	2.80	13.24	V
	11100	-52.48	-13	-39.48	-62.03	3.46	13.01	V
	14820	-58.49	-13	-45.49	-68.05	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.