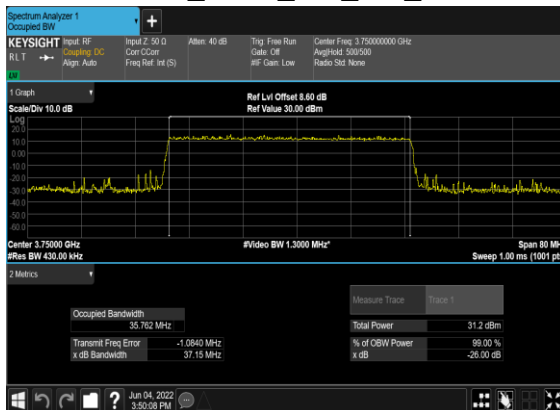
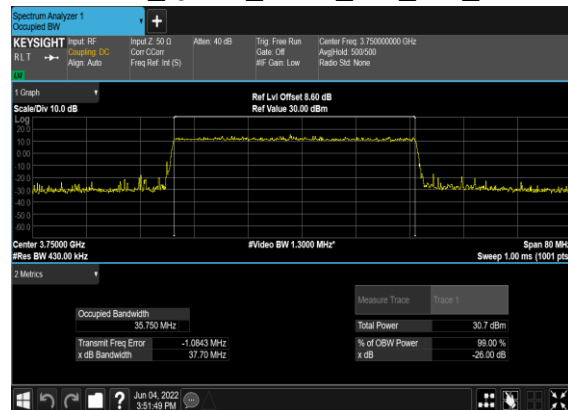


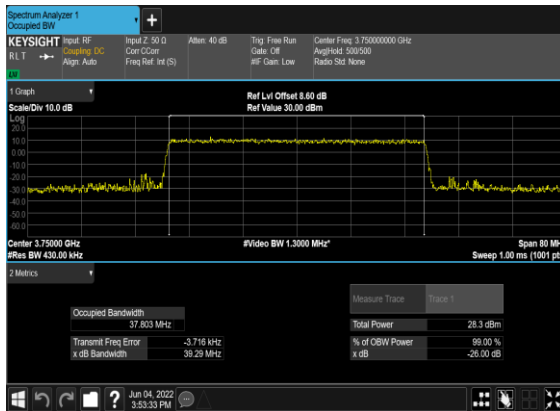
N78(40M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



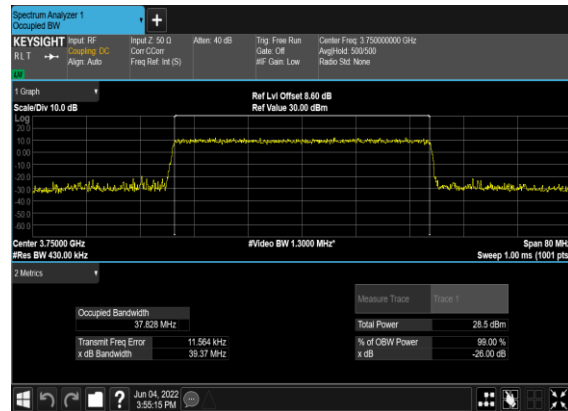
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OFDM_QPSK_Outer_Full_Mid_CH



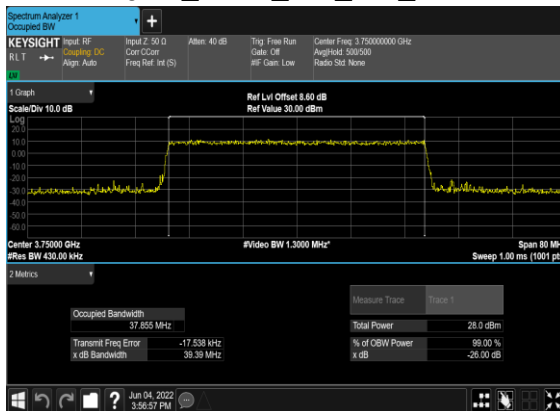
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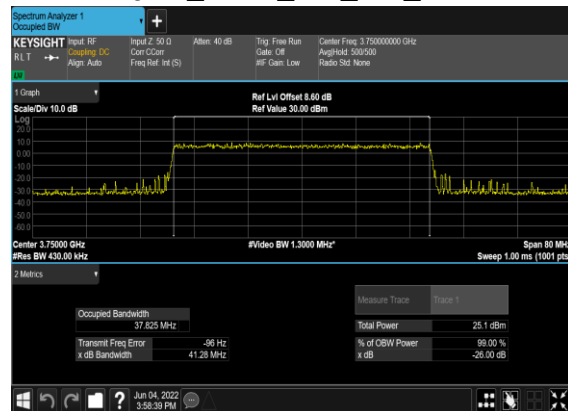
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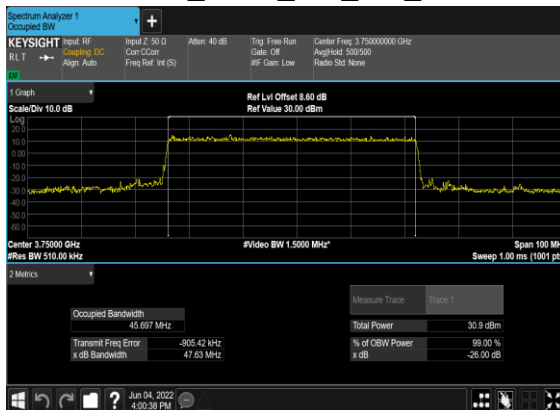
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QAM_Outer_Full_Mid_CH



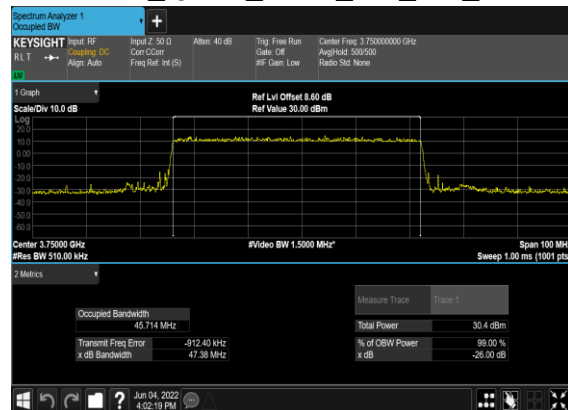
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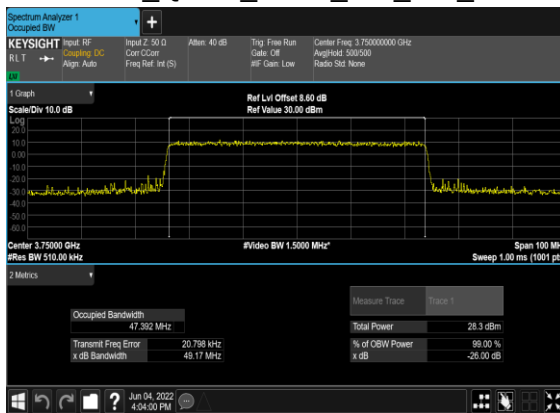
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BPSK_Outer_Full_Mid_CH



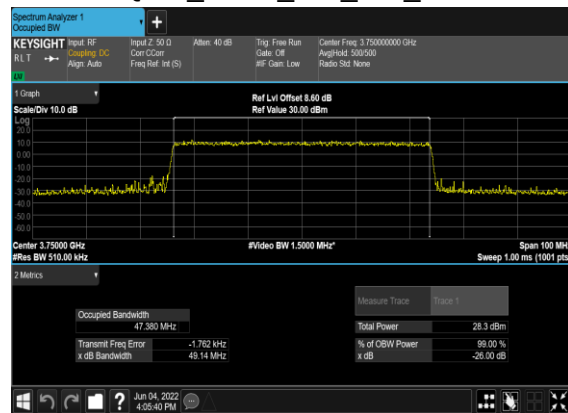
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OFDM_QPSK_Outer_Full_Mid_CH



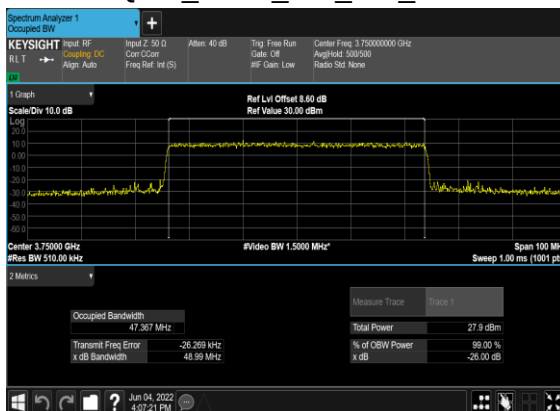
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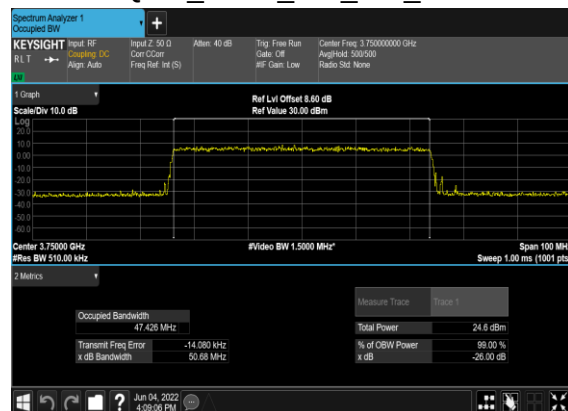
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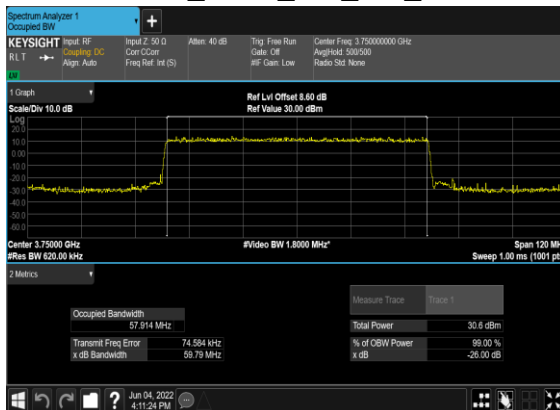
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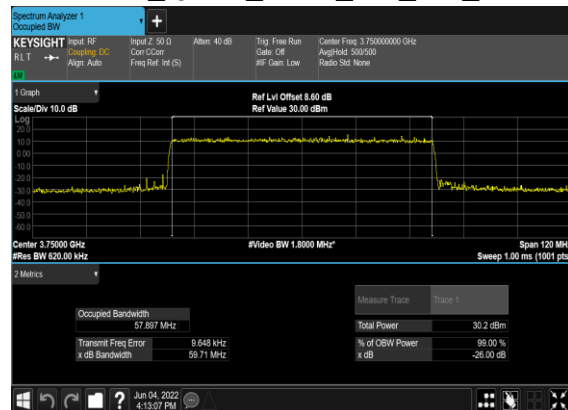
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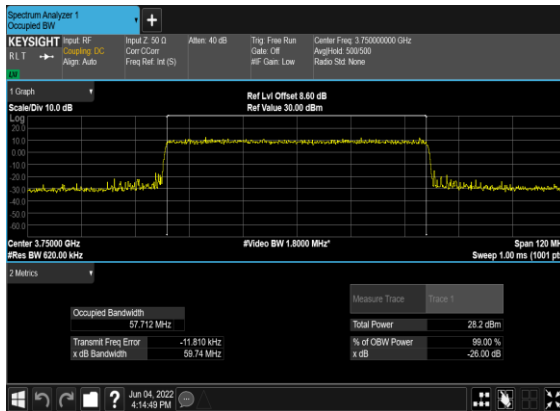
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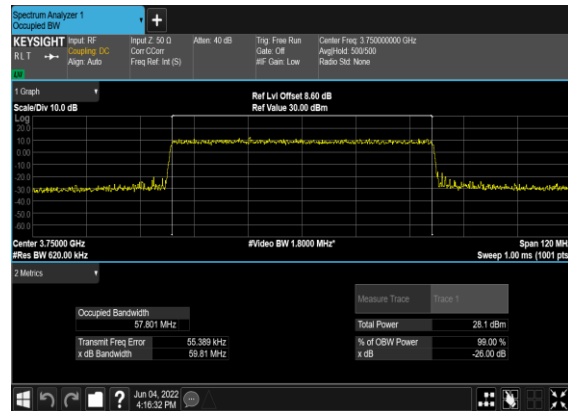
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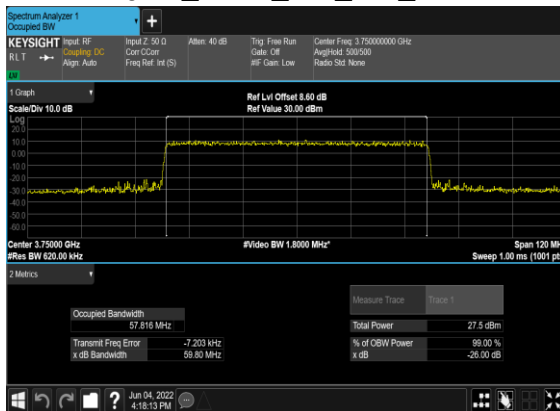
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OFDM_QPSK_Outer_Full_Mid_CH



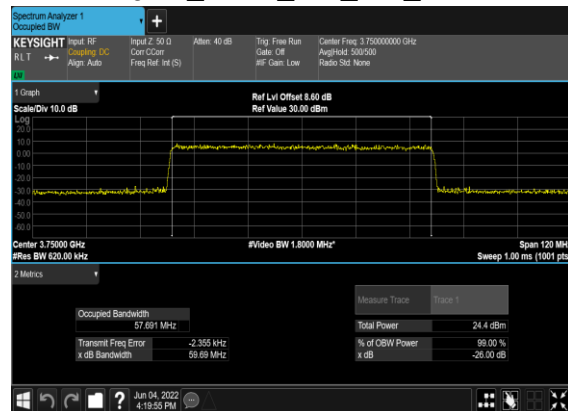
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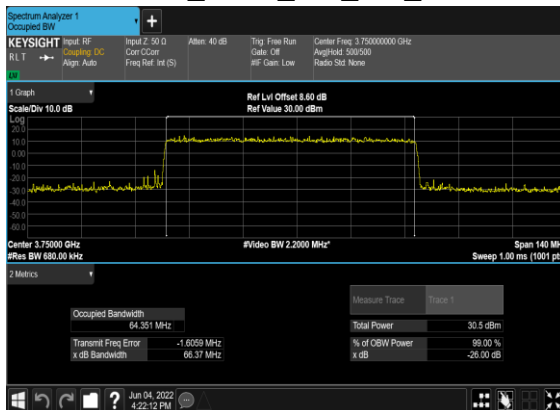
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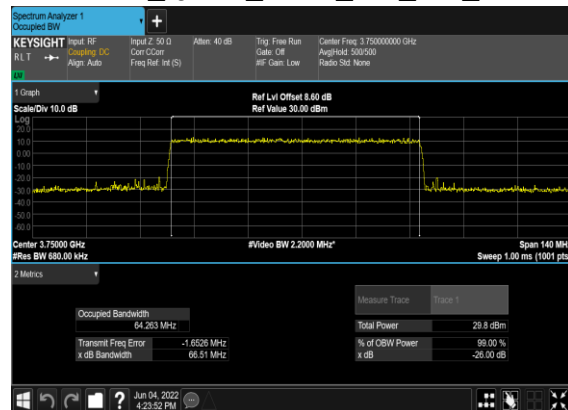
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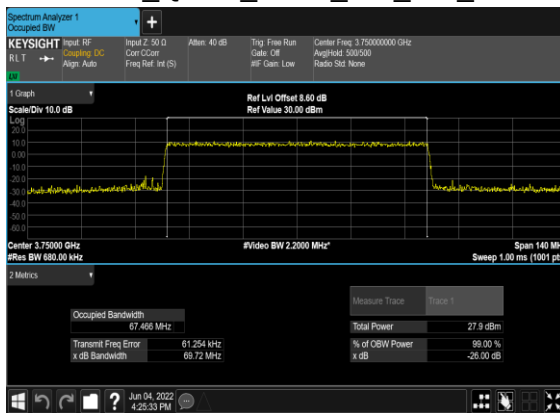
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BPSK_Outer_Full_Mid_CH



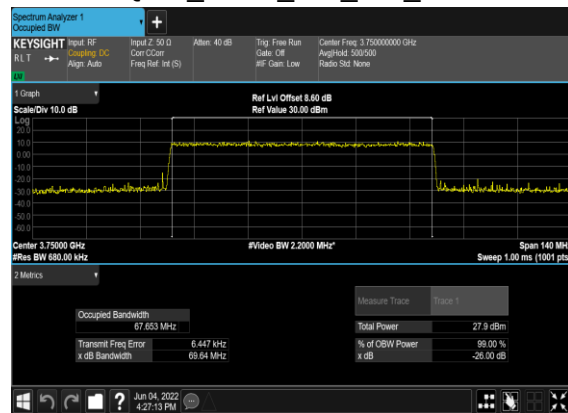
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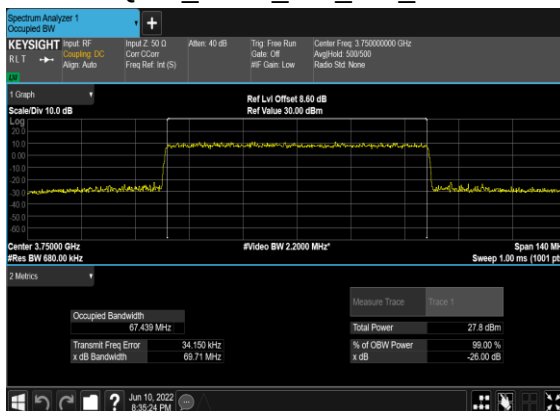
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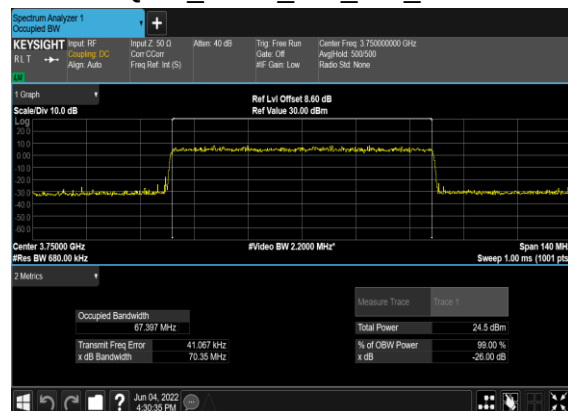
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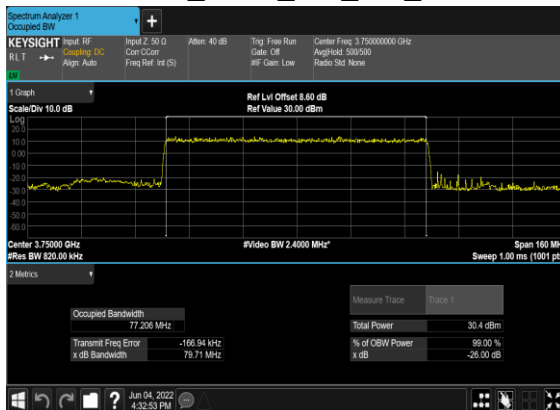
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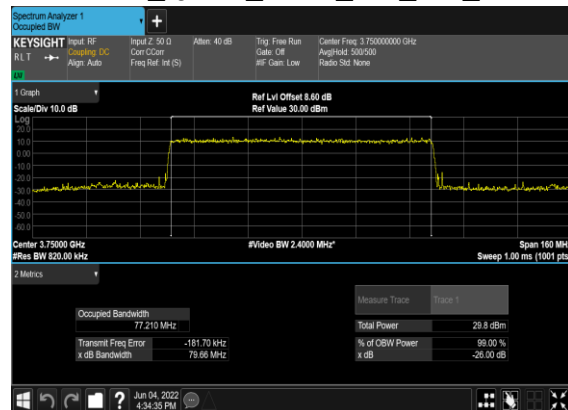
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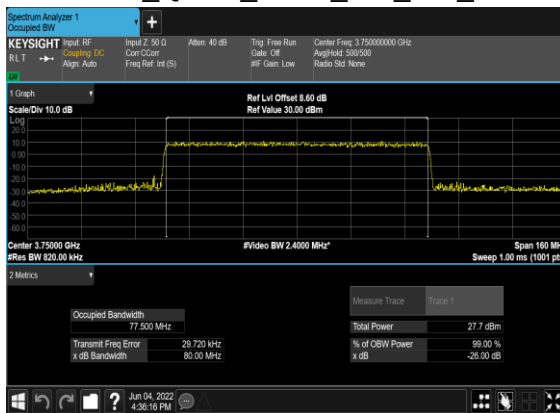
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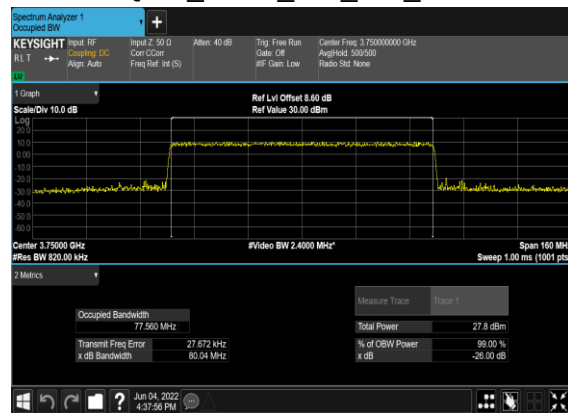
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OFDM_QPSK_Outer_Full_Mid_CH



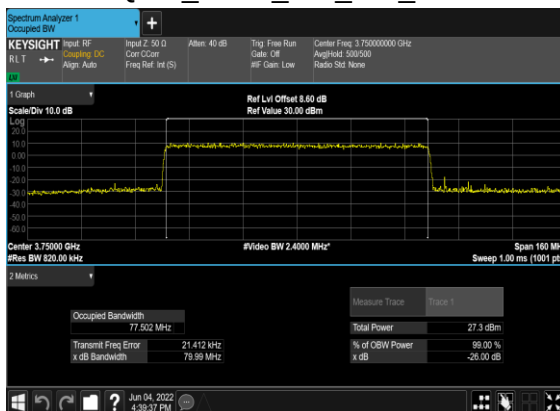
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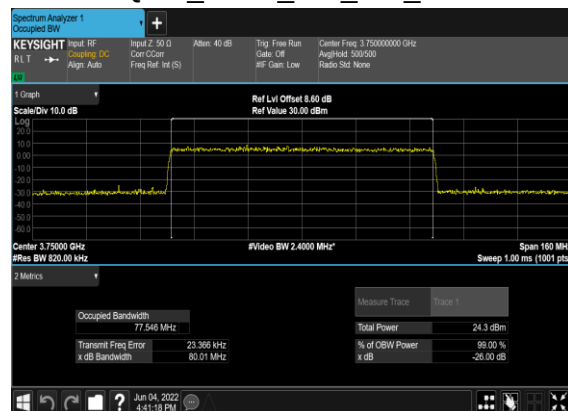
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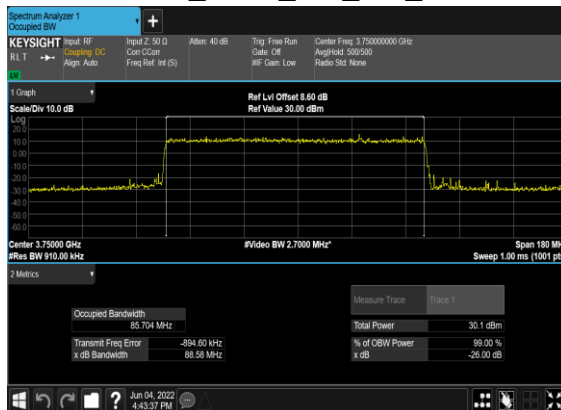
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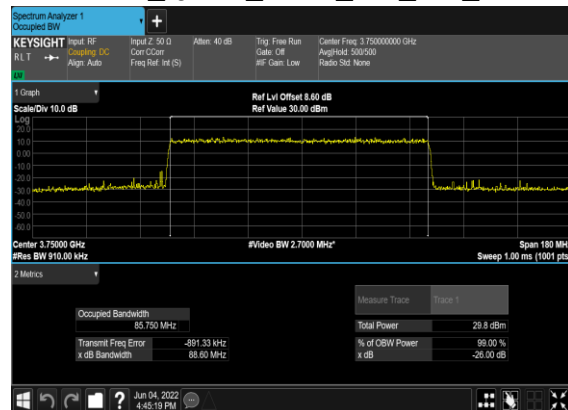
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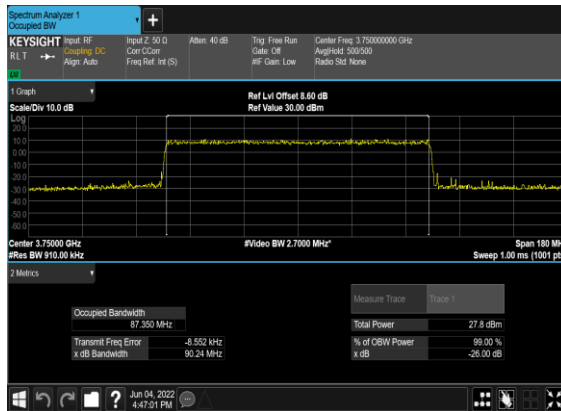
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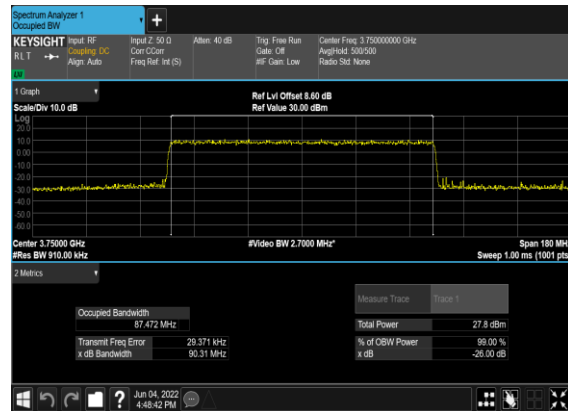
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OFDM_QPSK_Outer_Full_Mid_CH



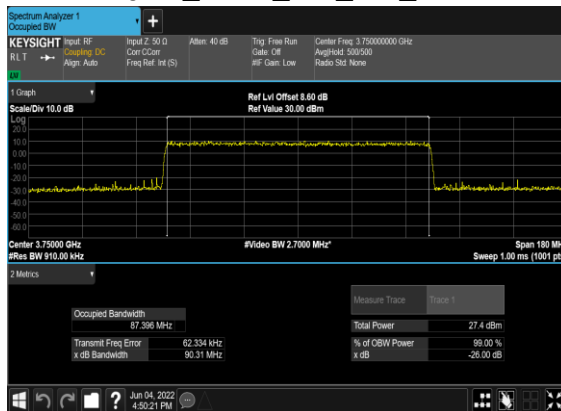
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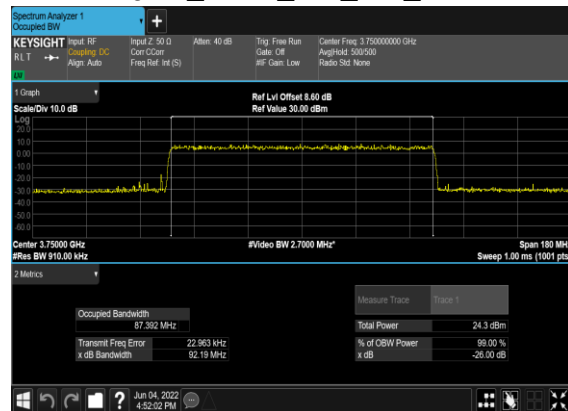
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QAM_Outer_Full_Mid_CH



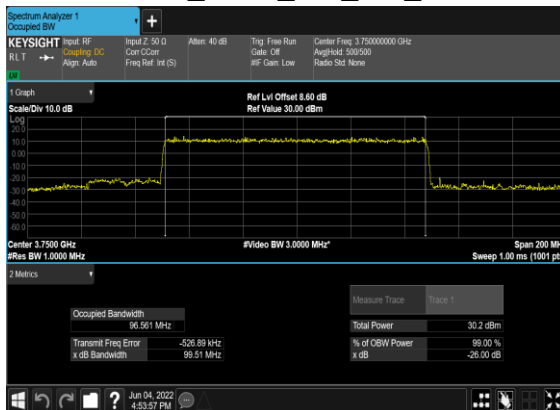
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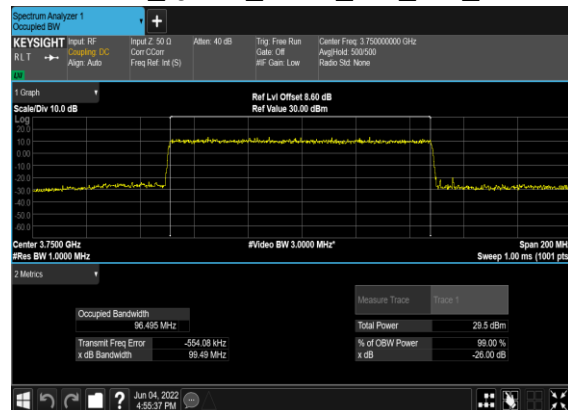
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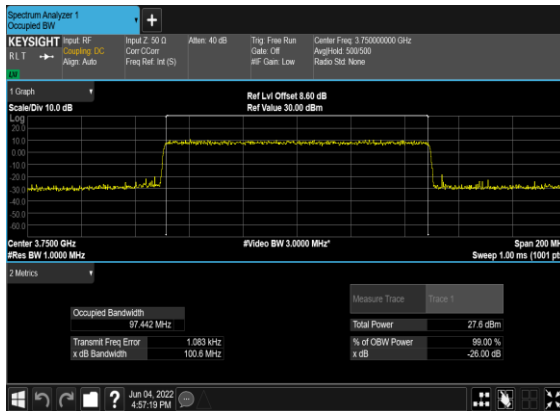
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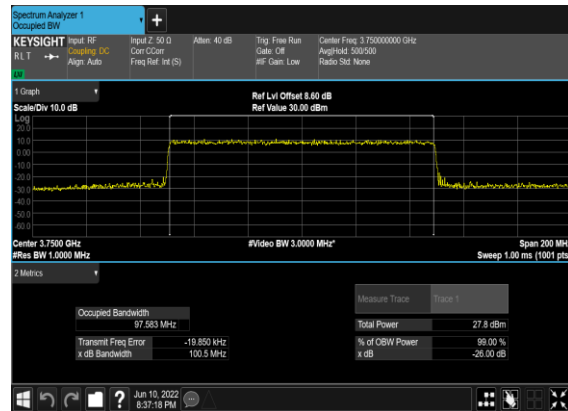
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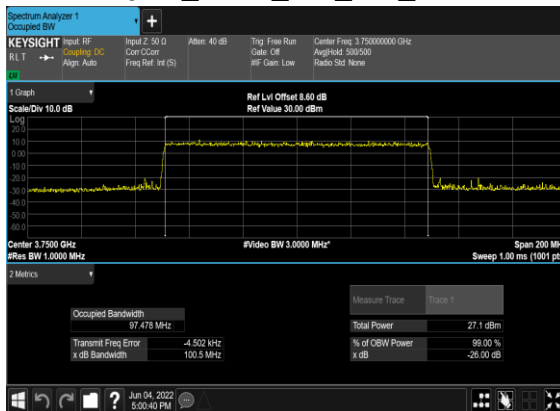
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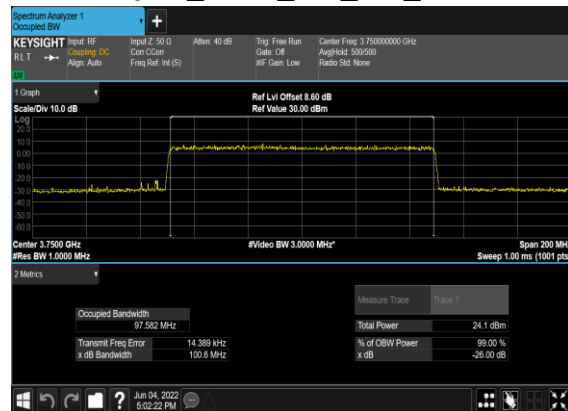
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QAM_Outer_Full_Mid_CH



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QAM_Outer_Full_Mid_CH

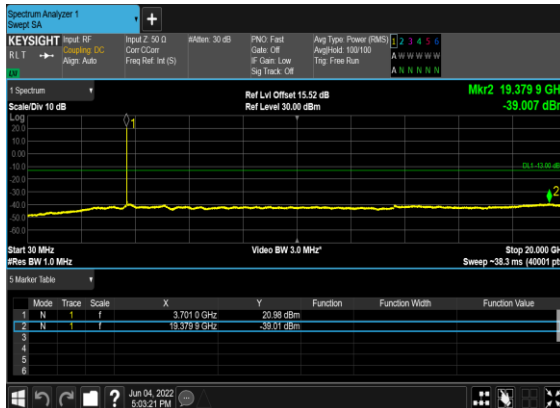


Conducted Spurious Emissions

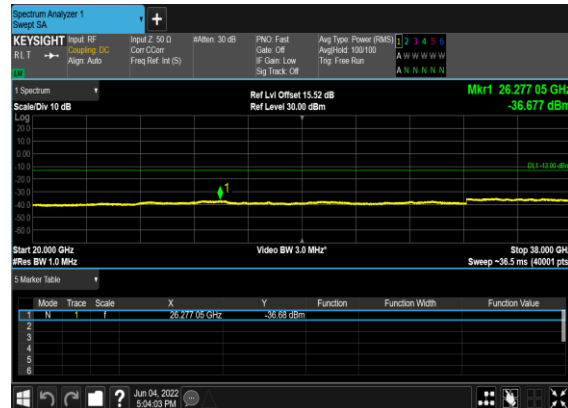
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	10	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	10	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	---

78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
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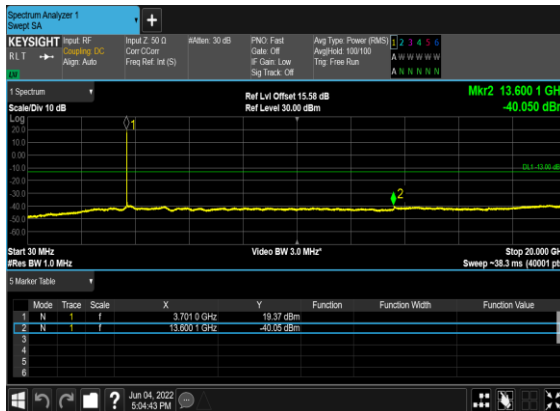
N78(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Low_CH



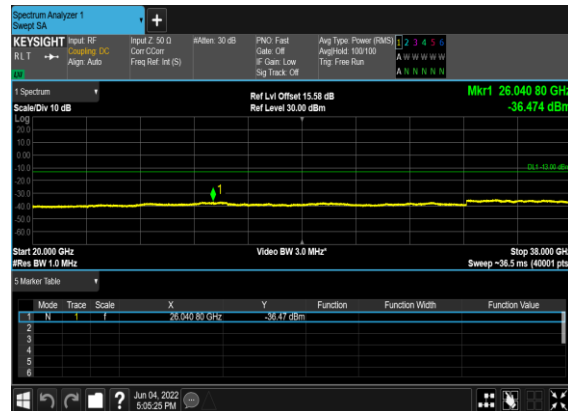
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N78(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



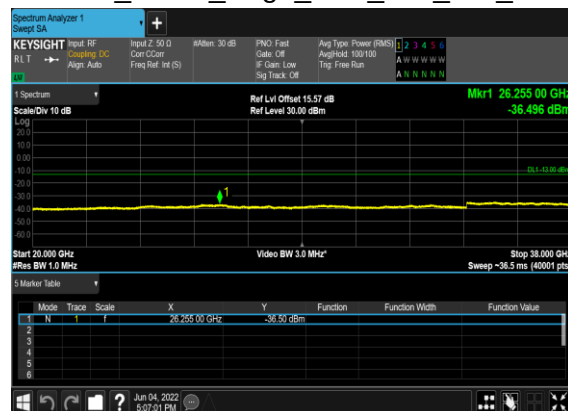
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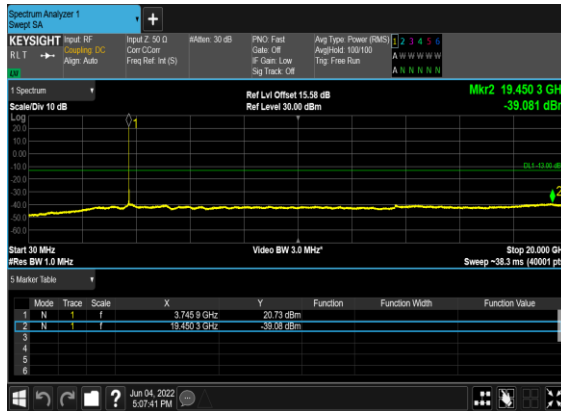
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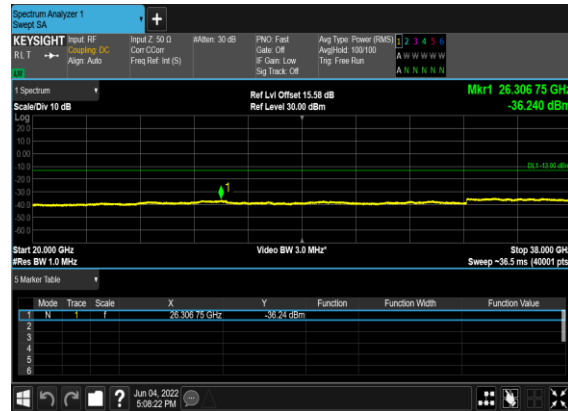
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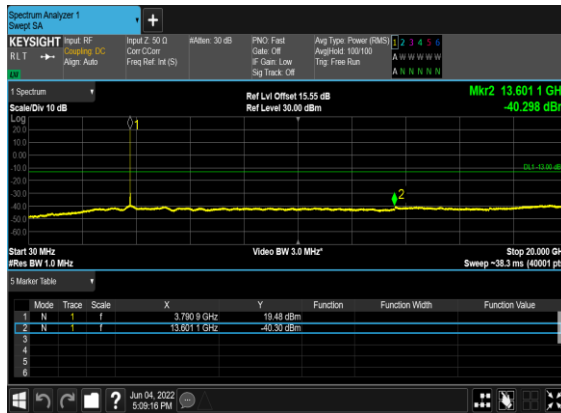
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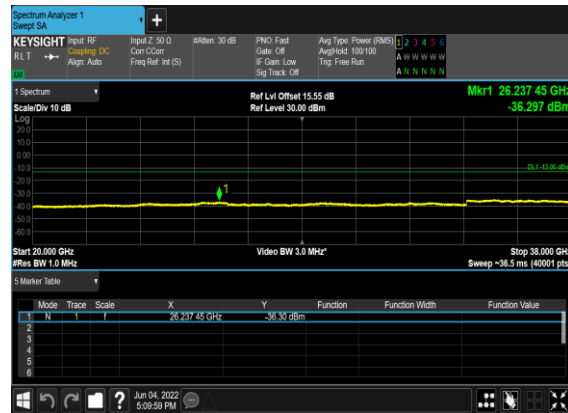
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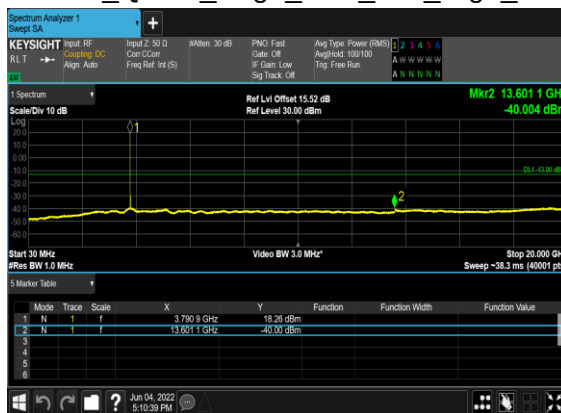
N78(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



N78(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



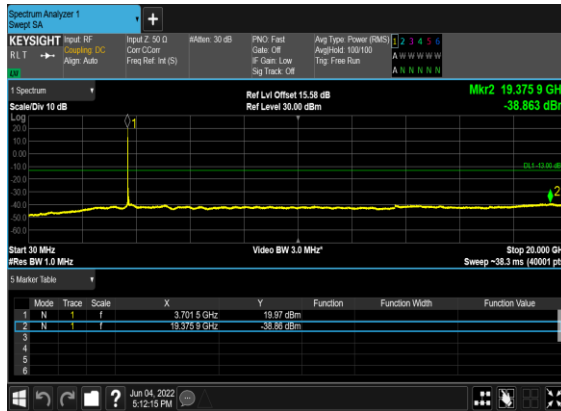
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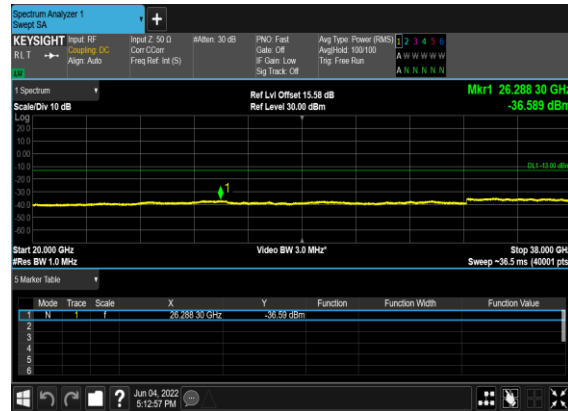
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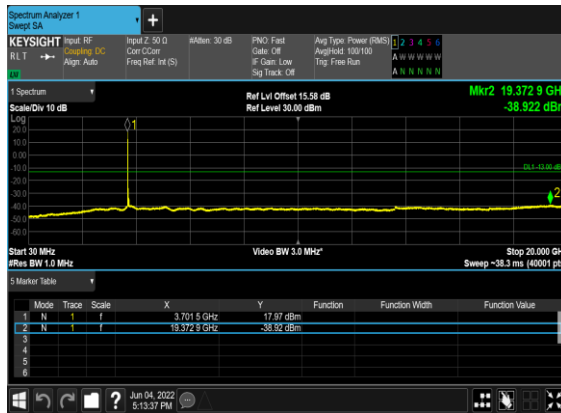
N78(50M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Low_CH



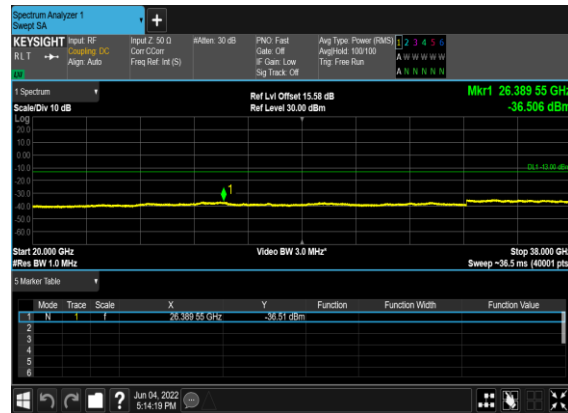
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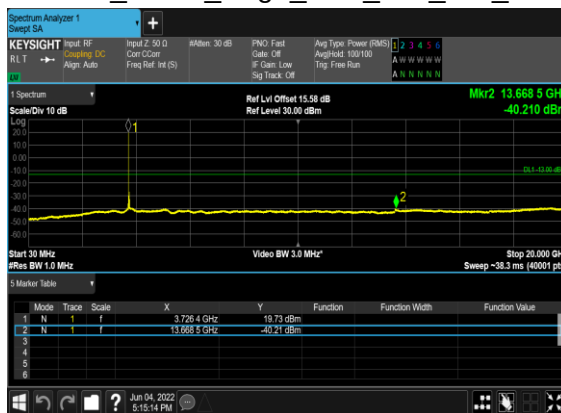
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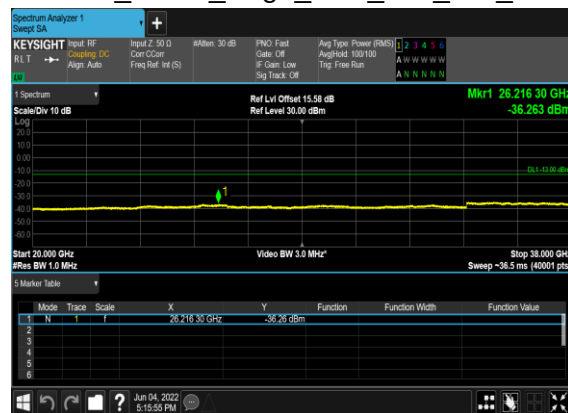
N78(50M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



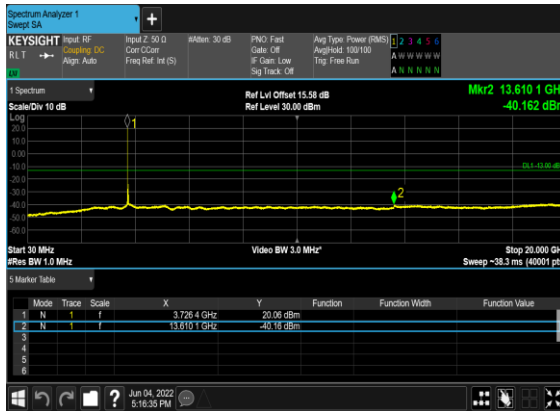
N78(50M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Mid_CH



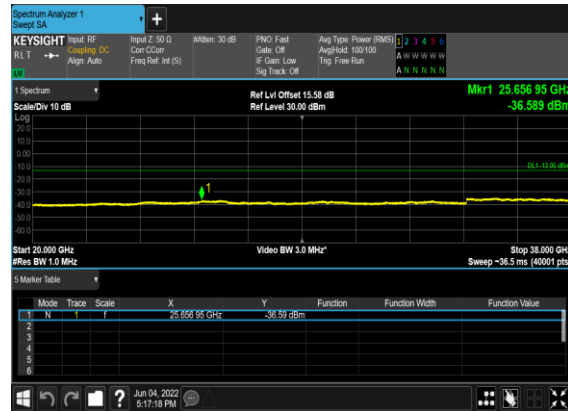
N78(50M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Mid_CH



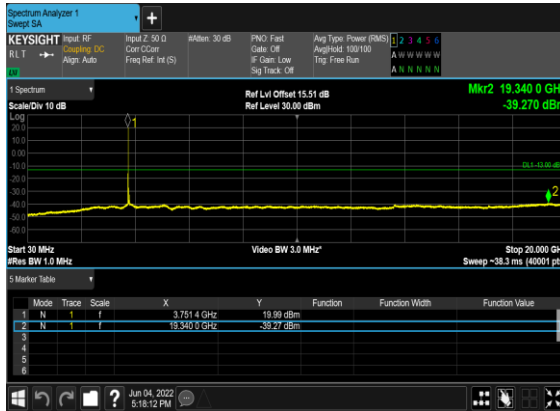
N78(50M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



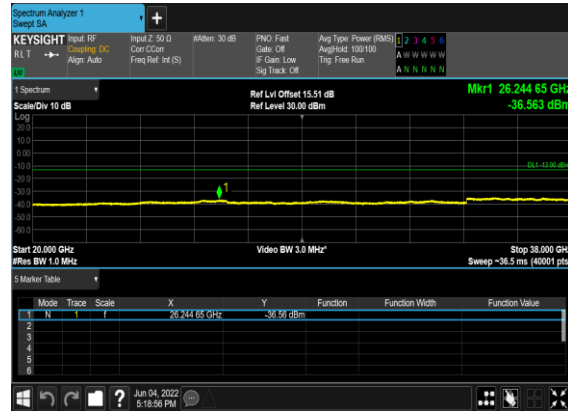
N78(50M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



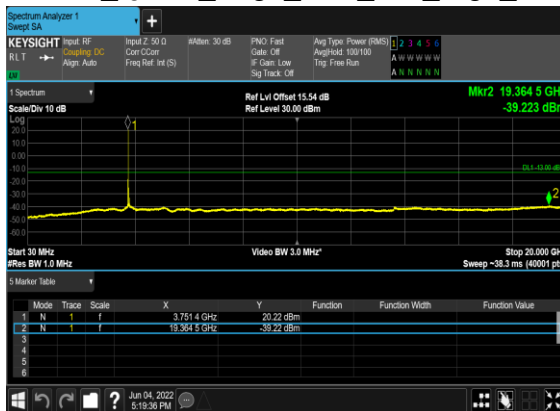
N78(50M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



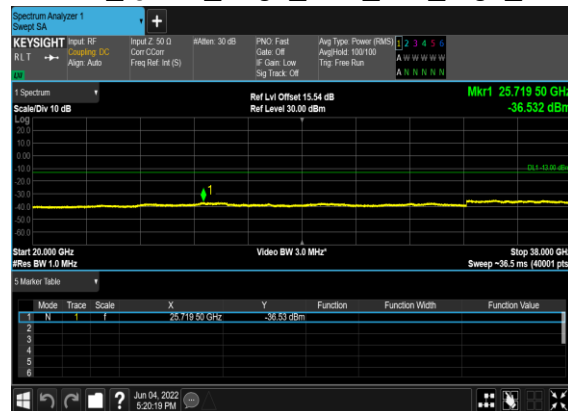
N78(50M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



N78(50M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



N78(50M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	1@23	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	1@23	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	128@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	128@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@132	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@132	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	128@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	128@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@272	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@272	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	see graph	PASS

N78(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



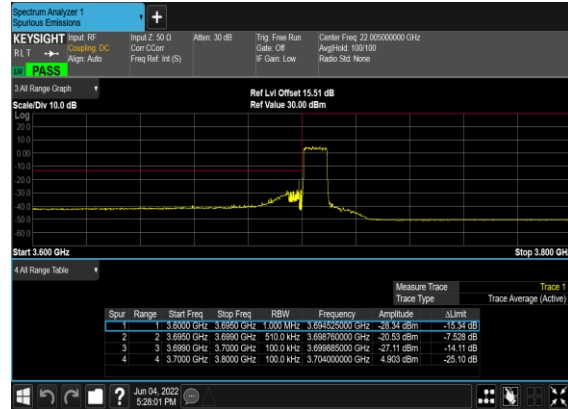
N78(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



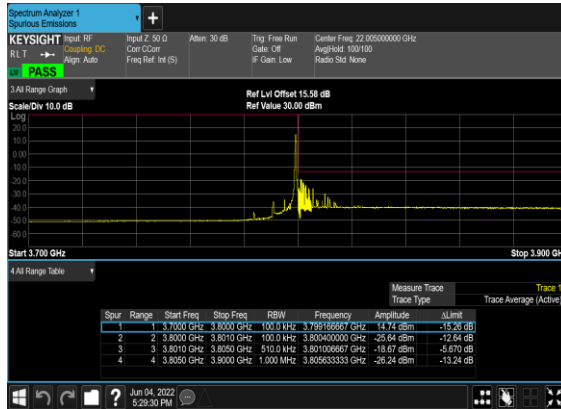
N78(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



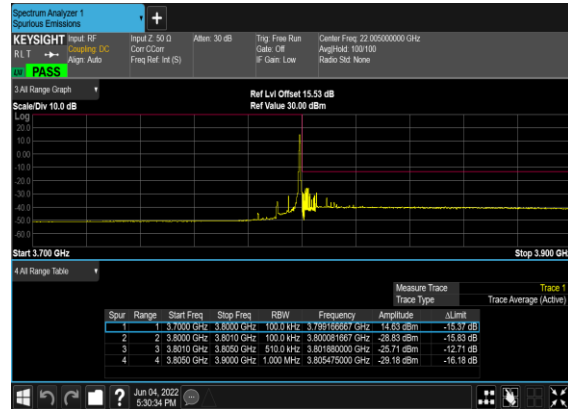
N78(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N78(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



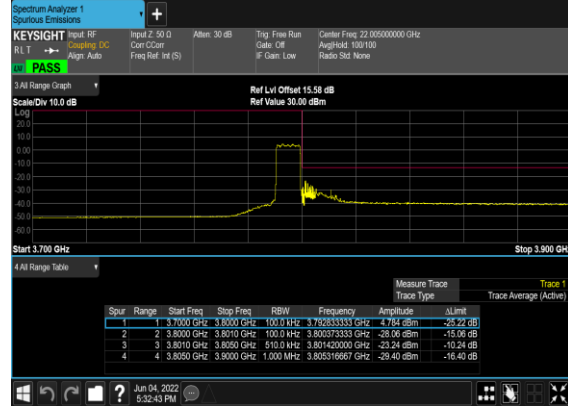
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OFDM_QPSK_Edge_1RB_Right_High_CH



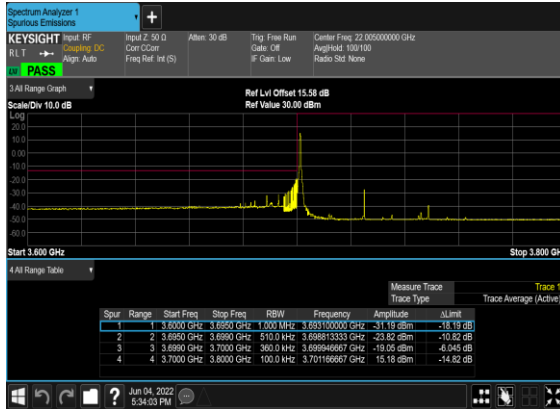
N78(10M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



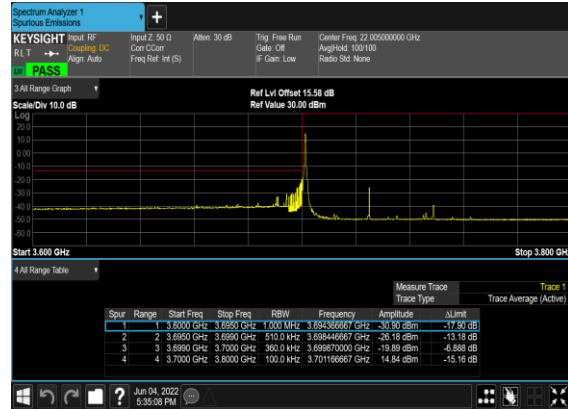
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OFDM_QPSK_Outer_Full_High_CH



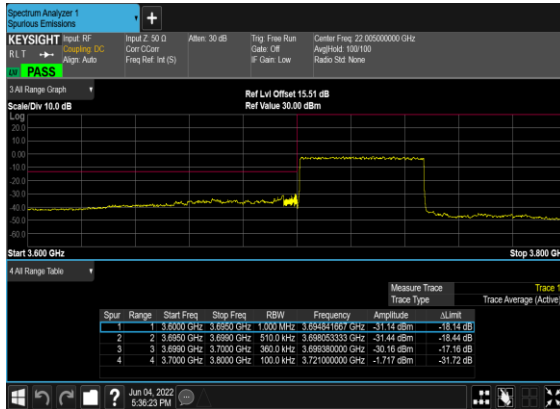
N78(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



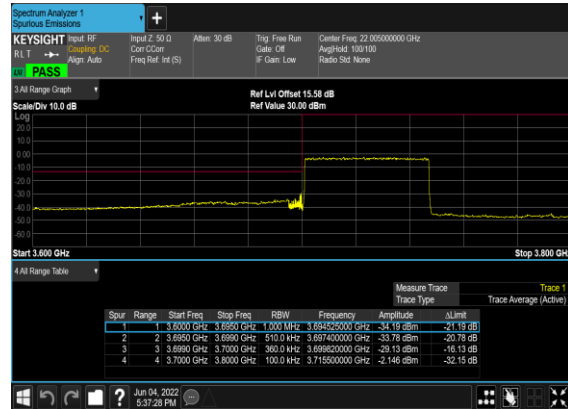
N78(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(50M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N78(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



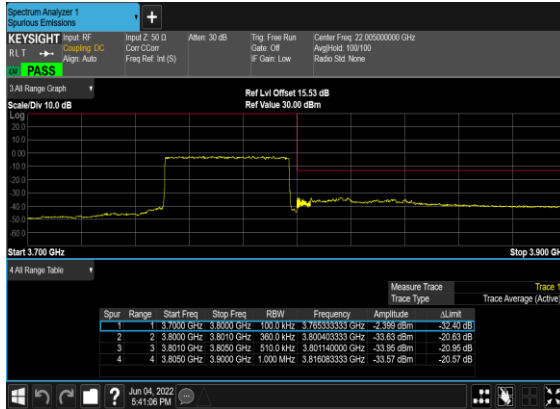
N78(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



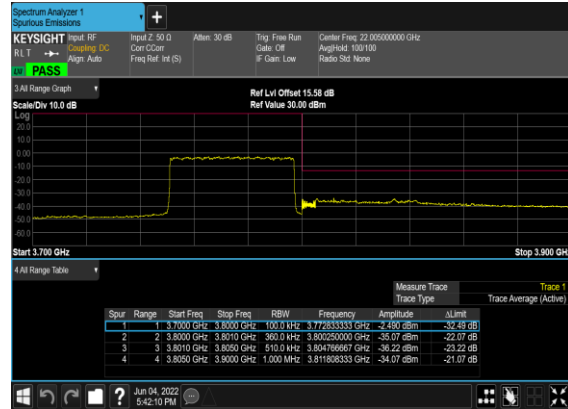
N78(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



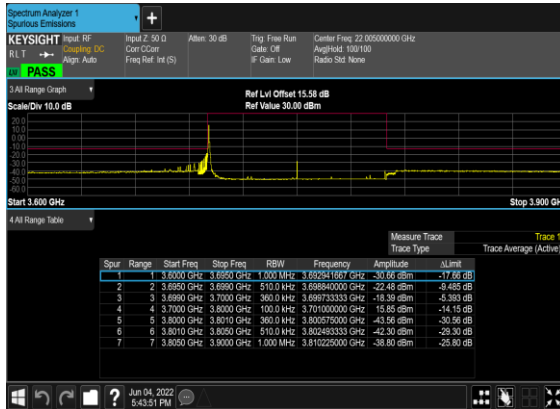
N78(50M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



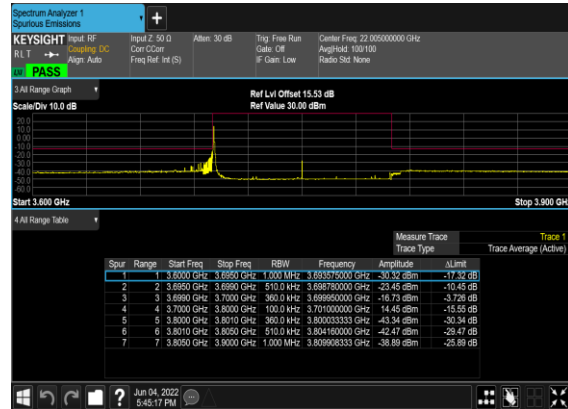
N78(50M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



N78(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s- OFDM_BPSK_Edge_1RB_Right_Mid_CH



N78(100M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_Mid_CH



N78(100M)_DFT-s- OFDM_BPSK_Outer_Full_Mid_CH



N78(100M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Zhicheng Li	Temperature :	22~25°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antenna, we choose the worst antenna mode to test.

n77 SA / NR 100MHz / QPSK(ANT6)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7582.90	-37.77	-13	-24.77	-39.72	-41.07	8.30	11.60	H
	11374.35	-56.41	-13	-43.41	-66.19	-57.93	10.48	12.00	H
	15165.80	-54.54	-13	-41.54	-64.38	-56.24	11.80	13.50	H
	7582.90	-42.89	-13	-29.89	-44.63	-46.19	8.30	11.60	V
	11374.35	-56.57	-13	-43.57	-66.15	-58.09	10.48	12.00	V
	15165.80	-54.41	-13	-41.41	-64.56	-56.11	11.80	13.50	V

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

EN-DC_41A_n77A / LTE 10MHz + NR 100MHz / QPSK / ANT1(LTE) & ANT6(NR)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n77 Middle	7582.90	-42.11	-13	-29.11	-44.06	-45.41	8.30	11.60	H
	11374.35	-57.36	-13	-44.36	-67.14	-58.88	10.48	12.00	H
	15165.80	-55.02	-13	-42.02	-64.86	-56.72	11.80	13.50	H
	7582.90	-37.84	-13	-24.84	-39.58	-41.14	8.30	11.60	V
	11374.35	-57.64	-13	-44.64	-67.22	-59.16	10.48	12.00	V
	15165.80	-55.04	-13	-42.04	-65.19	-56.74	11.80	13.50	V
LTE Band 41 Middle	5177.00	-63.96	-25	-38.96	-61.45	-69.52	7.14	12.70	H
	7765.50	-59.89	-25	-34.89	-62.30	-63.19	8.30	11.60	H
	10354.00	-57.81	-25	-32.81	-64.78	-59.33	10.48	12.00	H
	5177.00	-64.66	-25	-39.66	-62.09	-70.22	7.14	12.70	V
	7765.50	-59.62	-25	-34.62	-62.01	-62.92	8.30	11.60	V
	10354.00	-57.93	-25	-32.93	-64.7	-59.45	10.48	12.00	V

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



n78(HPUE) SA / NR 100MHz / QPSK / ANT6									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7402.50	-37.78	-13	-24.78	-40.13	-41.08	8.30	11.60	H
	11103.75	-56.27	-13	-43.27	-64.94	-57.79	10.48	12.00	H
	14805.00	-49.22	-13	-36.22	-60.74	-50.92	11.80	13.50	H
	7402.50	-44.15	-13	-31.15	-46.55	-47.45	8.30	11.60	V
	11103.75	-56.56	-13	-43.56	-64.93	-58.08	10.48	12.00	V
	14805.00	-52.41	-13	-39.41	-64.12	-54.11	11.80	13.50	V

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

EN-DC_7A_n78A / LTE 10MHz + NR 100MHz / QPSK / ANT1(LTE) & ANT6(NR)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n78 Middle	7402.50	-46.61	-13	-33.61	-48.96	-49.91	8.30	11.60	H
	11103.75	-57.09	-13	-44.09	-65.76	-58.61	10.48	12.00	H
	14805.00	-54.45	-13	-41.45	-65.97	-56.15	11.80	13.50	H
	7402.50	-53.27	-13	-40.27	-55.67	-56.57	8.30	11.60	V
	11103.75	-57.93	-13	-44.93	-66.3	-59.45	10.48	12.00	V
	14805.00	-54.42	-13	-41.42	-66.13	-56.12	11.80	13.50	V
LTE Band 7 Middle	5061.18	-61.55	-25	-36.55	-78.97	-67.11	7.14	12.70	H
	7591.77	-59.39	-25	-34.39	-61.32	-62.69	8.30	11.60	H
	10122.36	-57.34	-25	-32.34	-64.72	-58.86	10.48	12.00	H
	5061.18	-61.58	-25	-36.58	-78.93	-67.14	7.14	12.70	V
	7591.77	-59.56	-25	-34.56	-61.27	-62.86	8.30	11.60	V
	10122.36	-57.68	-25	-32.68	-64.59	-59.20	10.48	12.00	V

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