

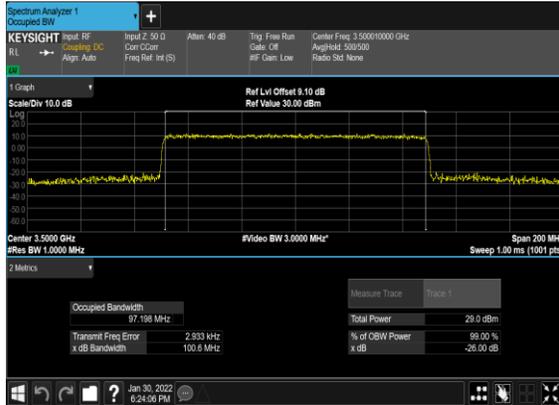
N78(100M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N78(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



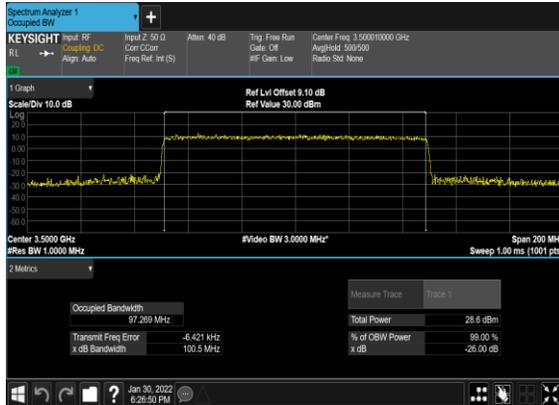
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OFDM_QPSK_Outer_Full_Mid_CH



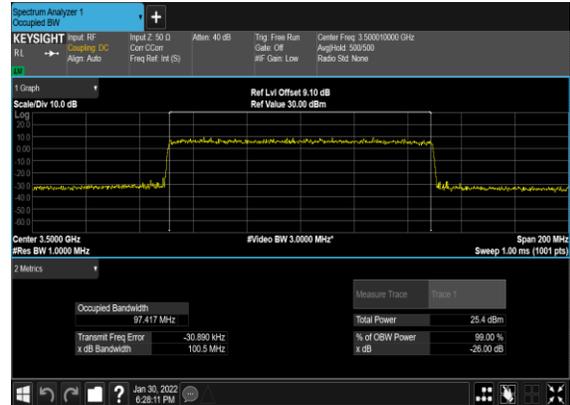
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QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS

78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS

N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



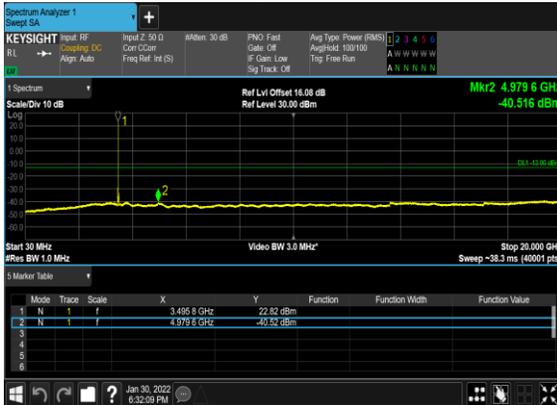
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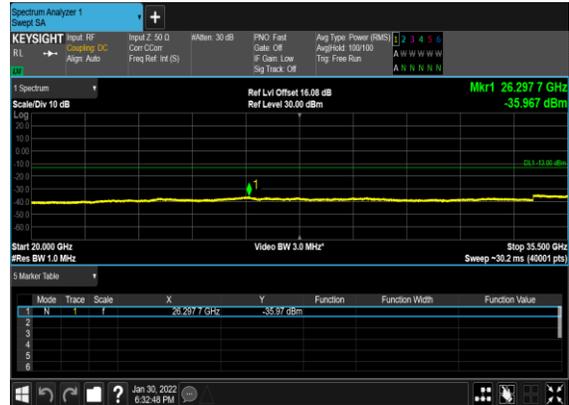
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N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



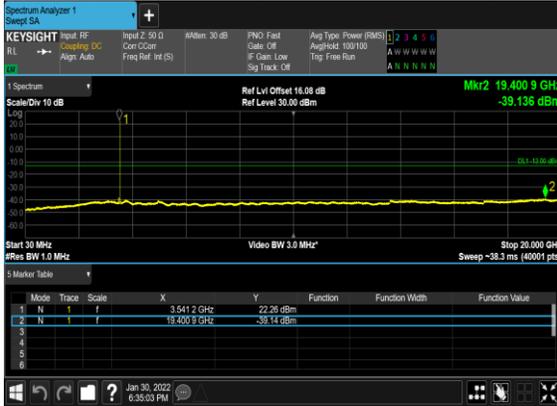
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N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



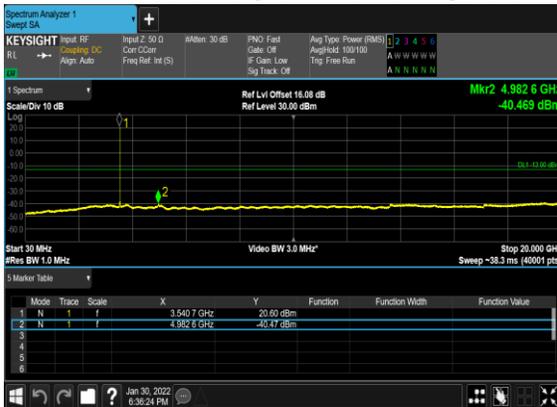
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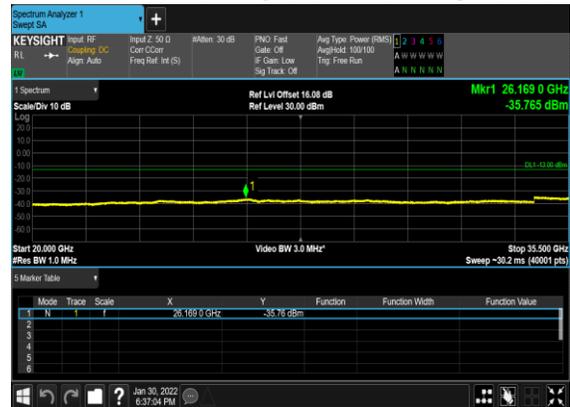
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N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



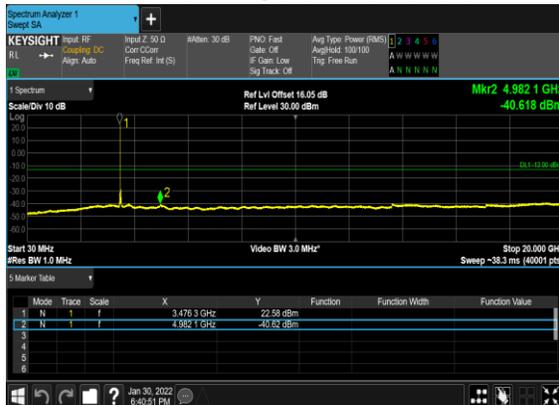
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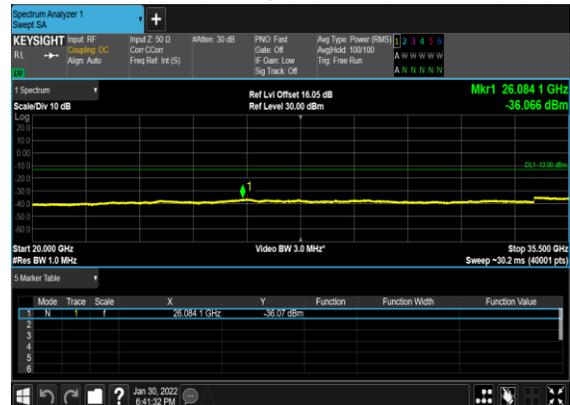
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N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



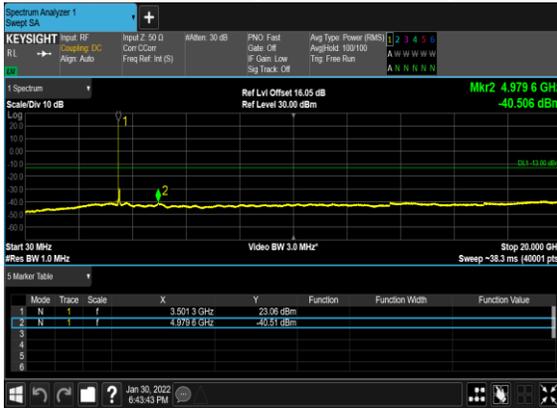
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N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



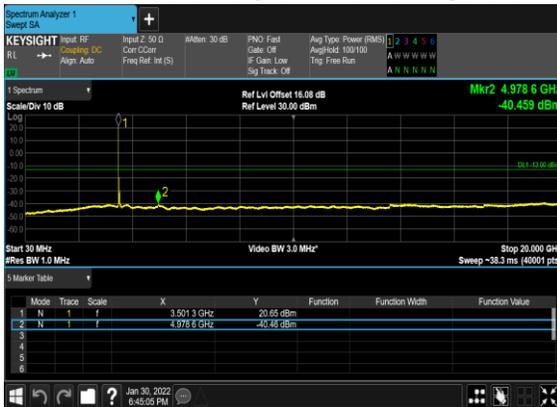
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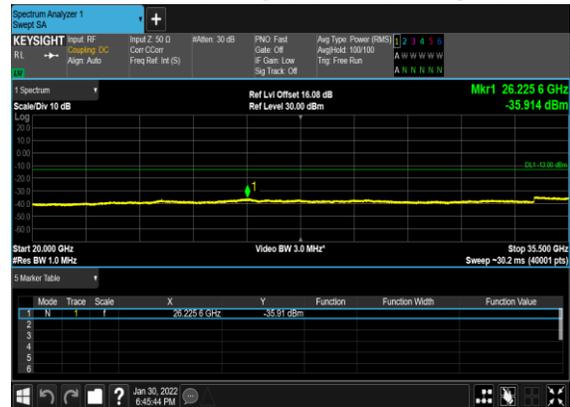
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N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



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	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	630334	3455.01	DFT-s-OFDM BPSK	24@0	see graph	PASS
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	24@0	see graph	PASS
78	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@23	see graph	PASS
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@23	see graph	PASS
78	30	10	636332	3544.98	DFT-s-OFDM BPSK	24@0	see graph	PASS
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	24@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	128@0	see graph	PASS
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	128@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@132	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@132	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	128@0	see graph	PASS
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	128@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	see graph	PASS
78	30	100	633334	3500.01	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



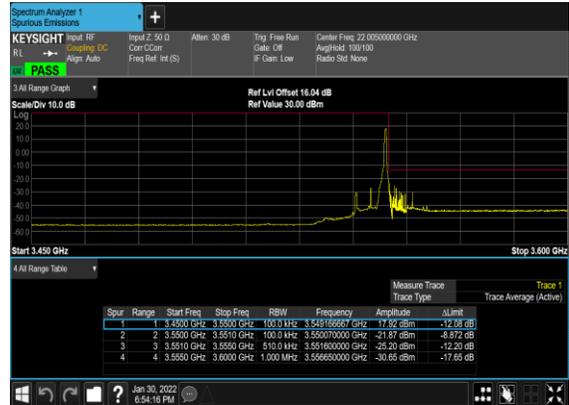
N78(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



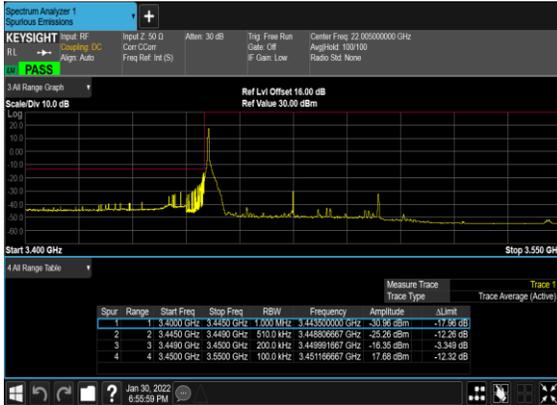
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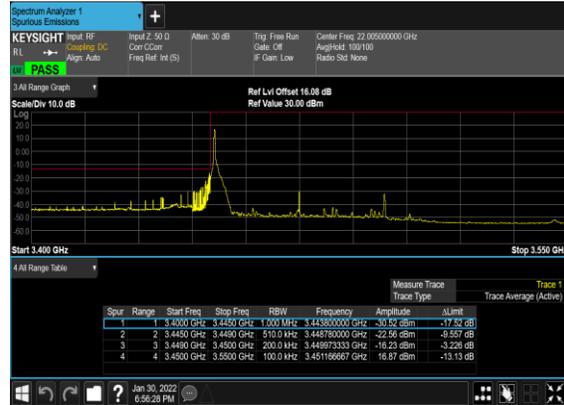
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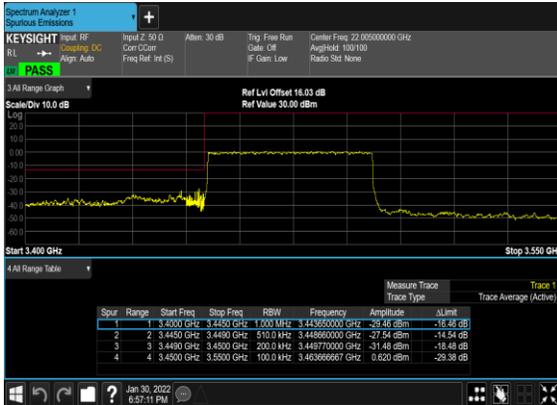
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



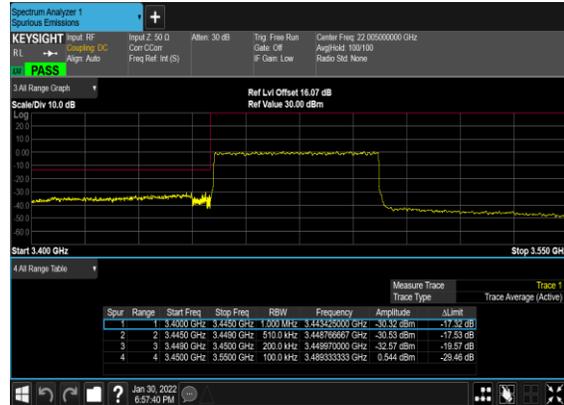
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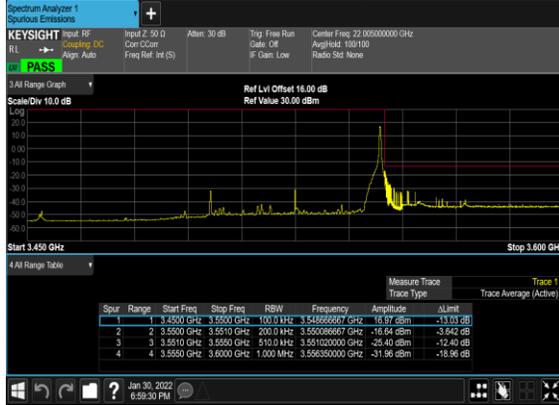
N78(50M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



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



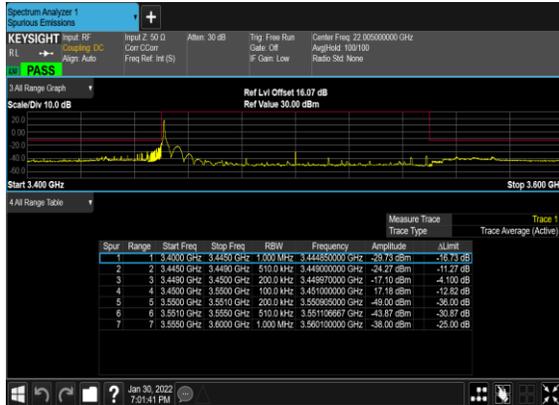
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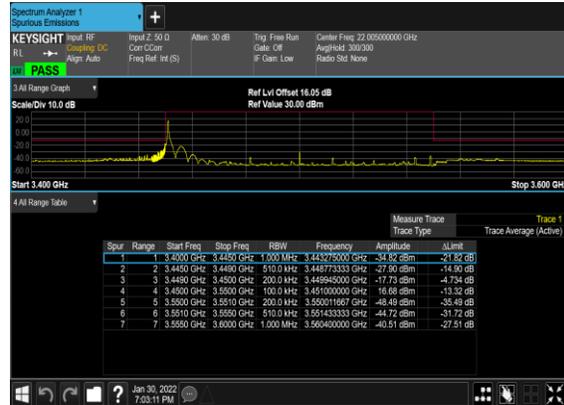
N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



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 :	Chris Chen	Temperature :	22~23°C
		Relative Humidity :	41~42%

SA n78 / 100MHz / DFTs OFDM-QPSK for Ant 3								
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	6912	-63.09	-13	-50.09	-73.57	2.76	13.24	H
	10368	-62.65	-13	-49.65	-72.24	3.42	13.01	H
	13812	-57.65	-13	-44.65	-67.26	3.83	13.44	H
	6912	-64.88	-13	-51.88	-75.32	2.80	13.24	V
	10368	-62.99	-13	-49.99	-72.54	3.46	13.01	V
	13812	-59.92	-13	-46.92	-69.48	3.88	13.44	V

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

EN-DC_41A_n78A / LTE 10MHz + NR 100MHz / QPSK / ANT2(LTE) & ANT3(NR)								
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	6900	-63.22	-13	-50.22	-73.70	2.76	13.24	H
	10368	-56.31	-13	-43.31	-65.90	3.42	13.01	H
	13800	-53.37	-13	-40.37	-62.98	3.83	13.44	H
	6900	-60.80	-13	-47.80	-71.24	2.80	13.24	V
	10368	-58.22	-13	-45.22	-67.77	3.46	13.01	V
	13800	-58.60	-13	-45.60	-68.16	3.88	13.44	V

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