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APPENDIX A.1: FREQUENCY STABILITY

Test Data

Frequency Stability versus Temperature

Band	CBW	Channel	Test Frequencies (MHz)	Input Voltage (V)	Temperature (°C)	Measured Frequency drift (Hz)	Frequency Error (ppm)	Limit (ppm)	Verdict
B25	20	B	1940	DC -48V	50	-40.6700	0.021	± 1	Pass
B25	20	B	1940	DC -48V	40	-34.6110	0.018	± 1	Pass
B25	20	B	1940	DC -48V	30	61.9930	0.032	± 1	Pass
B25	20	B	1940	DC -48V	20	8.3706	0.004	± 1	Pass
B25	20	B	1940	DC -48V	10	8.3706	0.004	± 1	Pass
B25	20	B	1940	DC -48V	0	-23.8500	0.012	± 1	Pass
B25	20	B	1940	DC -48V	-10	44.2340	0.023	± 1	Pass
B25	20	B	1940	DC -48V	-20	-34.0150	0.018	± 1	Pass
B25	20	B	1940	DC -48V	-30	-48.8640	0.025	± 1	Pass
B25	20	M	1962.5	DC -48V	50	-57.0250	0.029	± 1	Pass
B25	20	M	1962.5	DC -48V	40	-103.6400	0.053	± 1	Pass
B25	20	M	1962.5	DC -48V	30	-75.5700	0.039	± 1	Pass
B25	20	M	1962.5	DC -48V	20	9.8547	0.005	± 1	Pass
B25	20	M	1962.5	DC -48V	10	510.6900	0.260	± 1	Pass
B25	20	M	1962.5	DC -48V	0	-95.7800	0.049	± 1	Pass
B25	20	M	1962.5	DC -48V	-10	-75.6020	0.039	± 1	Pass
B25	20	M	1962.5	DC -48V	-20	-47.1090	0.024	± 1	Pass
B25	20	M	1962.5	DC -48V	-30	-39.7730	0.020	± 1	Pass
B25	20	T	1985	DC -48V	50	146.5600	0.074	± 1	Pass
B25	20	T	1985	DC -48V	40	-76.7810	0.039	± 1	Pass
B25	20	T	1985	DC -48V	30	395.9400	0.199	± 1	Pass
B25	20	T	1985	DC -48V	20	-92.9120	0.047	± 1	Pass
B25	20	T	1985	DC -48V	10	89.9250	0.045	± 1	Pass
B25	20	T	1985	DC -48V	0	-43.6430	0.022	± 1	Pass
B25	20	T	1985	DC -48V	-10	-72.4170	0.036	± 1	Pass
B25	20	T	1985	DC -48V	-20	603.4400	0.304	± 1	Pass
B25	20	T	1985	DC -48V	-30	-57.6060	0.029	± 1	Pass
B66	20	B	2120	DC -48V	50	-22.7690	0.011	± 1	Pass
B66	20	B	2120	DC -48V	40	-49.4810	0.023	± 1	Pass
B66	20	B	2120	DC -48V	30	-46.8680	0.022	± 1	Pass
B66	20	B	2120	DC -48V	20	-11.9560	0.006	± 1	Pass
B66	20	B	2120	DC -48V	10	-46.7540	0.022	± 1	Pass
B66	20	B	2120	DC -48V	0	-31.7730	0.015	± 1	Pass
B66	20	B	2120	DC -48V	-10	-31.7730	0.015	± 1	Pass
B66	20	B	2120	DC -48V	-20	7.0486	0.003	± 1	Pass
B66	20	B	2120	DC -48V	-30	-35.6250	0.017	± 1	Pass
B66	20	M	2150	DC -48V	50	-118.2200	0.055	± 1	Pass
B66	20	M	2150	DC -48V	40	237.1200	0.110	± 1	Pass
B66	20	M	2150	DC -48V	30	-72.4770	0.034	± 1	Pass
B66	20	M	2150	DC -48V	20	-107.1200	0.050	± 1	Pass
B66	20	M	2150	DC -48V	10	7.9617	0.004	± 1	Pass
B66	20	M	2150	DC -48V	0	-58.5750	0.027	± 1	Pass
B66	20	M	2150	DC -48V	-10	-96.8490	0.045	± 1	Pass
B66	20	M	2150	DC -48V	-20	-51.5530	0.024	± 1	Pass
B66	20	M	2150	DC -48V	-30	-87.6820	0.041	± 1	Pass
B66	20	T	2180	DC -48V	50	-22.6140	0.010	± 1	Pass
B66	20	T	2180	DC -48V	40	10.8880	0.005	± 1	Pass
B66	20	T	2180	DC -48V	30	7.0120	0.003	± 1	Pass
B66	20	T	2180	DC -48V	20	-81.6910	0.037	± 1	Pass
B66	20	T	2180	DC -48V	10	-46.6550	0.021	± 1	Pass
B66	20	T	2180	DC -48V	0	13.3920	0.006	± 1	Pass
B66	20	T	2180	DC -48V	-10	-52.4190	0.024	± 1	Pass

B66	20	T	2180	DC -48V	-20	-115.4400	0.053	± 1	Pass
B66	20	T	2185	DC -48V	-30	9.4766	0.004	± 1	Pass
N66	10	B	2115	DC -48V	50	2.62	0.001	± 1	Pass
N66	10	B	2115	DC -48V	40	8.12	0.004	± 1	Pass
N66	10	B	2115	DC -48V	30	7.91	0.004	± 1	Pass
N66	10	B	2115	DC -48V	20	3.03	0.001	± 1	Pass
N66	10	B	2115	DC -48V	10	11.10	0.005	± 1	Pass
N66	10	B	2115	DC -48V	0	2.44	0.001	± 1	Pass
N66	10	B	2115	DC -48V	-10	16.33	0.008	± 1	Pass
N66	10	B	2115	DC -48V	-20	10.79	0.005	± 1	Pass
N66	10	B	2115	DC -48V	-30	3.85	0.002	± 1	Pass
N66	10	M	2150	DC -48V	50	2.84	0.001	± 1	Pass
N66	10	M	2150	DC -48V	40	10.57	0.005	± 1	Pass
N66	10	M	2150	DC -48V	30	8.15	0.004	± 1	Pass
N66	10	M	2150	DC -48V	20	5.13	0.002	± 1	Pass
N66	10	M	2150	DC -48V	10	7.52	0.003	± 1	Pass
N66	10	M	2150	DC -48V	0	9.80	0.005	± 1	Pass
N66	10	M	2150	DC -48V	-10	3.78	0.002	± 1	Pass
N66	10	M	2150	DC -48V	-20	8.71	0.004	± 1	Pass
N66	10	M	2150	DC -48V	-30	1.22	0.001	± 1	Pass
N66	10	T	2150	DC -48V	50	1.41	0.001	± 1	Pass
N66	10	T	2185	DC -48V	40	11.16	0.005	± 1	Pass
N66	10	T	2185	DC -48V	30	4.89	0.002	± 1	Pass
N66	10	T	2185	DC -48V	20	9.78	0.004	± 1	Pass
N66	10	T	2185	DC -48V	10	1.80	0.001	± 1	Pass
N66	10	T	2185	DC -48V	0	1.80	0.001	± 1	Pass
N66	10	T	2185	DC -48V	-10	2.53	0.001	± 1	Pass
N66	10	T	2185	DC -48V	-20	7.51	0.003	± 1	Pass
N66	10	T	2185	DC -48V	-30	5.51	0.003	± 1	Pass
N66	30	B	2125	DC -48V	50	2.10	0.001	± 1	Pass
N66	30	B	2125	DC -48V	40	5.46	0.003	± 1	Pass
N66	30	B	2125	DC -48V	30	2.60	0.001	± 1	Pass
N66	30	B	2125	DC -48V	20	6.72	0.003	± 1	Pass
N66	30	B	2125	DC -48V	10	10.57	0.005	± 1	Pass
N66	30	B	2125	DC -48V	0	5.82	0.003	± 1	Pass
N66	30	B	2125	DC -48V	-10	7.90	0.004	± 1	Pass
N66	30	B	2125	DC -48V	-20	12.74	0.006	± 1	Pass
N66	30	B	2125	DC -48V	-30	8.66	0.004	± 1	Pass
N66	30	M	2150	DC -48V	50	226.92	0.106	± 1	Pass
N66	30	M	2150	DC -48V	40	158.74	0.074	± 1	Pass
N66	30	M	2150	DC -48V	30	-266.73	0.124	± 1	Pass
N66	30	M	2150	DC -48V	20	286.75	0.133	± 1	Pass
N66	30	M	2150	DC -48V	10	-14.30	0.007	± 1	Pass
N66	30	M	2150	DC -48V	0	-569.09	0.265	± 1	Pass
N66	30	M	2150	DC -48V	-10	-74.96	0.035	± 1	Pass
N66	30	M	2150	DC -48V	-20	723.52	0.337	± 1	Pass
N66	30	M	2150	DC -48V	-30	520.19	0.242	± 1	Pass
N66	30	T	2175	DC -48V	50	562.72	0.259	± 1	Pass
N66	30	T	2175	DC -48V	40	8.51	0.004	± 1	Pass
N66	30	T	2175	DC -48V	30	268.28	0.123	± 1	Pass
N66	30	T	2175	DC -48V	20	-307.50	0.141	± 1	Pass
N66	30	T	2175	DC -48V	10	-695.86	0.320	± 1	Pass
N66	30	T	2175	DC -48V	0	812.01	0.373	± 1	Pass
N66	30	T	2175	DC -48V	-10	867.60	0.399	± 1	Pass
N66	30	T	2175	DC -48V	-20	543.63	0.250	± 1	Pass
N66	30	T	2175	DC -48V	-30	-167.94	0.077	± 1	Pass

Conclusion: Pass

The maximum frequency drift is 867.6 Hz, the frequency is drift within the frequency block. The occupied bandwidth stays within the operating frequency block or frequency block group when tested to the temperature and supply voltage variations.

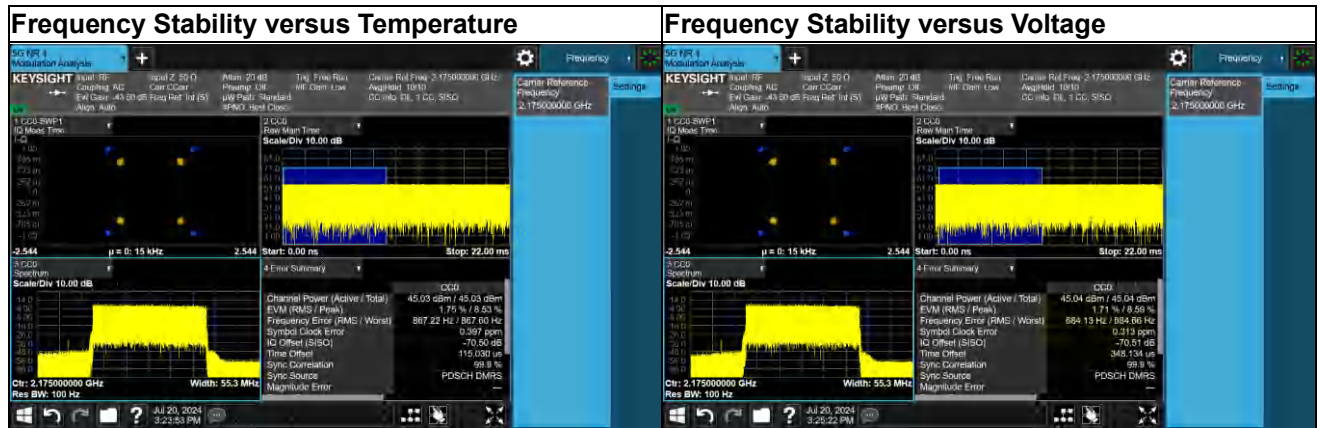
Frequency Stability versus Voltage

Band	CBW	Channel	Test Frequencies (MHz)	Input Voltage (V)	Temperature (°C)	Measured Frequency drift (Hz)	Frequency Error (ppm)	Limit (ppm)	Verdict
B25	20	M	1962.5	DC -40.8V	20	-33.364	0.017	± 1	Pass
B25	20	M	1962.5	DC -55.2V	20	121.48	0.062	± 1	Pass
B66	20	M	1962.5	DC -40.8V	20	-20.222	0.010	± 1	Pass
B66	20	M	1962.5	DC -55.2V	20	106.76	0.054	± 1	Pass
N66	10	M	2150	DC -40.8V	20	2.65	0.001	± 1	Pass
N66	10	M	2150	DC -55.2V	20	-4.13	0.002	± 1	Pass
N66	30	M	2150	DC -40.8V	20	208.76	0.097	± 1	Pass

Conclusion: Pass

The maximum frequency drift is 208.76 Hz, the frequency is drift within the frequency block. The occupied bandwidth stays within the operating frequency block or frequency block group when tested to the temperature and supply voltage variations.

Test Plots



Note:
Only worst data were recorded in this appendix.

APPENDIX A.2: TRANSMITTER POWER

Test Data

Single Carrier Operation

RAT	Band	Test CH	Frequency (MHz)	Modulation	CBW (MHz)	Measured RF Power (dBm)				Measured PSD (dBm/MHz)				Total Power (dBm)	Total PSD (dBm/MHz)	Total Power in e.i.r.p. (W/MHz)	Limit e.i.r.p. (W/MHz)	Max. allowed Antenna Gain against e.i.r.p. Limit (dBi)	Verdict
						ANT_0	ANT_1	ANT_2	ANT_3	ANT_0	ANT_1	ANT_2	ANT_3						
LTE	B25	B	1940	QPSK	20	44.51	44.39	44.41	44.32	31.50	31.38	31.40	31.31	50.43	37.42	551.90	1640	20	Pass
LTE	B25	M	1962.5	QPSK	20	45.33	45.06	44.88	45.30	32.32	32.05	31.87	32.29	51.17	38.16	654.18	1640	20	Pass
LTE	B25	T	1985	QPSK	20	45.37	45.39	45.55	45.65	32.36	32.38	32.54	32.64	51.51	38.50	708.30	1640	20	Pass
LTE	B66	B	2120	QPSK	20	45.64	45.62	45.49	45.38	32.63	32.61	32.48	32.37	51.55	38.54	715.22	1640	20	Pass
LTE	B66	M	2150	QPSK	20	45.88	45.90	45.80	45.83	32.87	32.89	32.79	32.82	51.87	38.86	769.71	1640	20	Pass
LTE	B66	T	2180	QPSK	20	45.34	45.39	45.53	45.36	32.33	32.38	32.52	32.35	51.43	38.42	694.42	1640	20	Pass
NR	N66	B	2115	QPSK	10	44.99	45.20	44.92	44.81	34.99	35.20	34.92	34.81	51.00	41.00	1259.78	1640	20	Pass
NR	N66	M	2150	QPSK	10	45.47	45.66	45.51	45.55	35.47	35.66	35.51	35.55	51.57	41.57	1435.05	1640	20	Pass
NR	N66	T	2185	QPSK	10	44.84	44.88	45.10	44.94	34.84	34.88	35.10	34.94	50.96	40.96	1247.88	1640	20	Pass
NR	N66	B	2125	QPSK	30	45.36	45.35	45.14	45.02	30.59	30.58	30.37	30.25	51.24	36.47	443.66	1640	20	Pass
NR	N66	M	2150	QPSK	30	45.44	45.46	45.51	45.43	30.67	30.69	30.73	30.66	51.48	36.71	468.62	1640	20	Pass
NR	N66	T	2175	QPSK	30	45.03	45.24	45.16	45.07	30.26	30.46	30.38	30.30	51.15	36.37	433.64	1640	20	Pass
LTE	B25	B	1940	QAM	20	44.68	44.45	44.23	44.42	31.67	31.44	31.22	31.41	50.47	37.46	557.00	1640	20	Pass
LTE	B25	M	1962.5	QAM	20	45.38	45.19	45.19	45.24	32.37	32.17	32.18	32.23	51.27	38.26	669.71	1640	20	Pass
LTE	B25	T	1985	QAM	20	45.42	45.30	45.54	45.59	32.41	32.29	32.53	32.58	51.48	38.47	703.81	1640	20	Pass
LTE	B66	B	2120	QAM	20	45.70	45.54	45.34	45.25	32.69	32.53	32.33	32.24	51.48	38.47	703.34	1640	20	Pass
LTE	B66	M	2150	QAM	20	45.98	45.97	45.95	45.89	32.97	32.96	32.94	32.88	51.97	38.96	786.73	1640	20	Pass
LTE	B66	T	2180	QAM	20	45.36	45.52	45.56	45.36	32.35	32.51	32.54	32.35	51.47	38.46	701.29	1640	20	Pass
NR	N66	B	2115	QAM	10	45.19	45.04	44.95	44.78	35.19	35.04	34.95	34.78	51.01	41.01	1262.74	1640	20	Pass
NR	N66	M	2150	QAM	10	45.54	45.63	45.64	45.57	35.54	35.63	35.64	35.57	51.62	41.62	1450.71	1640	20	Pass
NR	N66	T	2185	QAM	10	44.81	44.82	45.11	44.98	34.81	34.82	35.11	34.98	50.95	40.95	1245.19	1640	20	Pass
NR	N66	B	2125	QAM	30	45.37	45.37	45.19	45.11	30.59	30.60	30.42	30.34	51.28	36.51	447.66	1640	20	Pass
NR	N66	M	2150	QAM	30	45.49	45.53	45.55	45.37	30.72	30.76	30.77	30.60	51.51	36.73	471.37	1640	20	Pass
NR	N66	T	2175	QAM	30	45.06	45.34	45.19	45.15	30.29	30.56	30.41	30.38	51.21	36.43	439.71	1640	20	Pass
NR	N66	B	2122.5	QPSK	25	45.41	45.38	45.11	45.18	31.43	31.40	31.13	31.20	51.29	37.31	538.58	1640	20	Pass
NR	N66	M	2150	QPSK	25	45.62	45.61	45.74	45.54	31.64	31.63	31.76	31.56	51.65	37.67	584.61	1640	20	Pass
NR	N66	T	2177.5	QPSK	25	44.97	45.18	45.26	45.19	30.99	31.20	31.28	31.21	51.17	37.19	523.83	1640	20	Pass
NR	N66	B	2122.5	QAM	25	45.45	45.33	45.09	45.15	31.47	31.35	31.11	31.17	51.28	37.30	536.78	1640	20	Pass
NR	N66	M	2150	QAM	25	45.54	45.47	45.63	45.52	31.56	31.49	31.65	31.54	51.56	37.58	572.93	1640	20	Pass
NR	N66	T	2177.5	QAM	25	44.95	45.21	45.28	45.15	30.97	31.23	31.30	31.17	51.17	37.19	523.58	1640	20	Pass

Note:

- Total Power is the sum of the 4 antenna ports of RF output power in dBm.
- Total PSD is the sum of the 4 antenna ports of power spectral density in dBm/MHz.
- Total Power in e.i.r.p. is calculated from following equation: Total e.i.r.p. (W) = $10^{(Total\ PSD\ (dBm/MHz) + ANT\ Gain\ (dBi))/10}/1000$.
- The e.i.r.p. calculation is based upon the applicant's declared maximum allowed antenna gain. The typical max. antenna gain value is 20 dBi.
- The antenna gain must be less than max. gain listed above when put into service.

Multi-band and Multi-carrier Operation

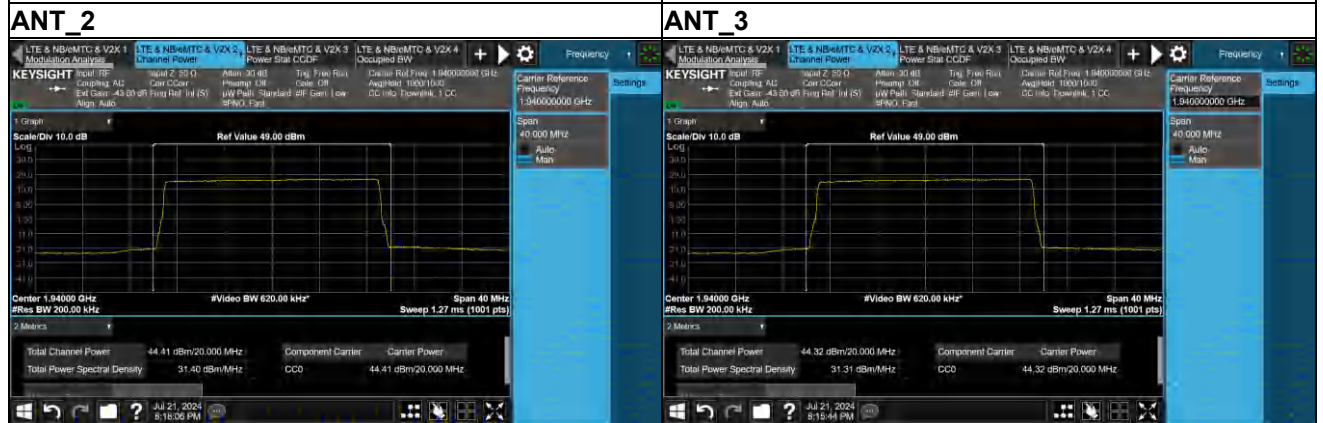
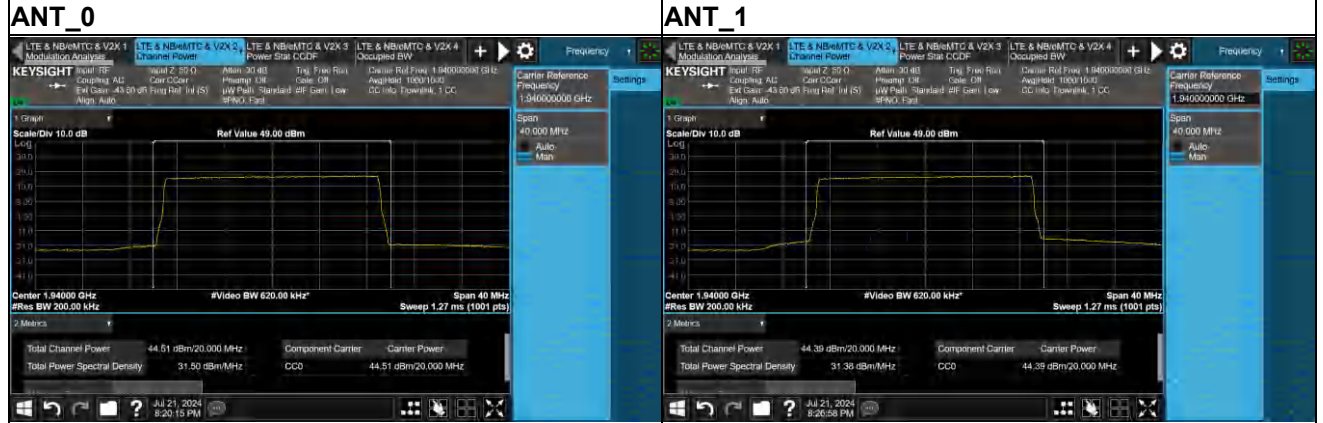
RAT	Band	Test CH	Frequency (MHz)	Modulation	CBW (MHz)	Measured RF Power (dBm)			Total Power (dBm)	Total PSD (dBm/MHz)	Total Power in e.i.r.p. (W/MHz)	Limit e.i.r.p. (W/MHz)	Max. allowed Antenna Gain against e.i.r.p. Limit (dBi)	Verdict
						CC1	CC2	CC1+CC2						
LTE+NR	N66+B25	B_T'	2115+1985	QPSK	10+20	41.97	42.40	30.43	51.22	36.45	441.63	1640	20	Pass
LTE+NR	N66+B25	T_B'	2185_1940	QPSK	10+20	41.91	41.36	29.88	50.67	35.90	389.10	1640	20	Pass
LTE+NR	N66+B25	B_T'	2122.5_1985	QPSK	25+20	41.95	42.37	28.64	51.20	34.66	292.46	1640	20	Pass
LTE+NR	N66+B25	T_B'	2177.5_1940	QPSK	25+20	42.01	41.14	28.07	50.63	34.09	256.48	1640	20	Pass
LTE+NR	N66	B_T'	2125_2180	QPSK	30+20	41.49	41.95	27.75	50.76	33.77	238.26	1640	20	Pass

Note:

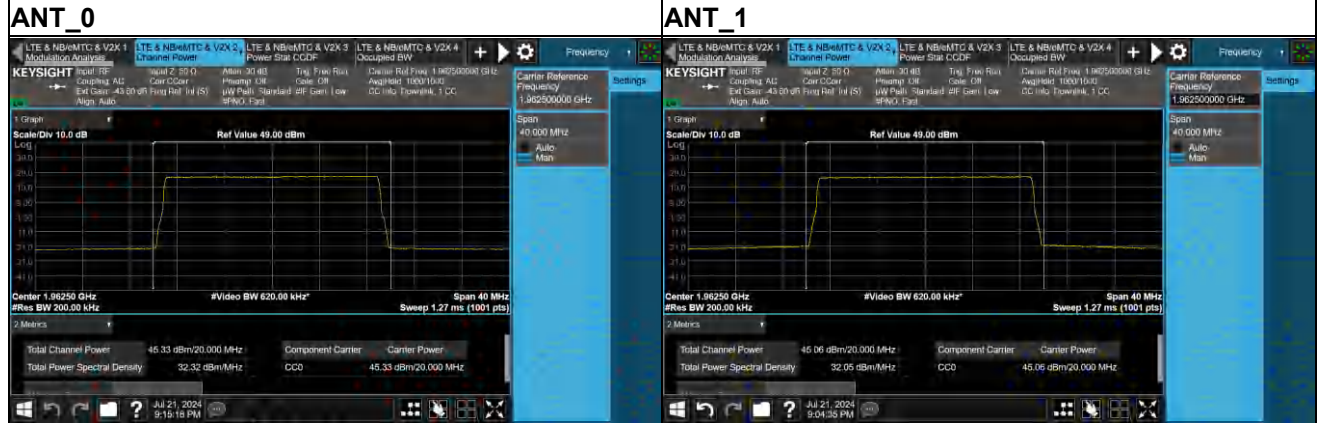
- Total Power is the sum of the 4 antenna ports of RF output power in dBm.
- Total PSD is the sum of the 4 antenna ports of power spectral density in dBm/MHz.
- Total Power in e.i.r.p. is calculated from following equation: Total e.i.r.p. (W) = $10^{(Total\ PSD\ (dBm/MHz) + ANT\ Gain\ (dBi))/10}/1000$.
- The e.i.r.p. calculation is based upon the applicant's declared maximum allowed antenna gain. The typical max. antenna gain value is 20 dBi.
- The antenna gain must be less than max. gain listed above when put into service.

Test Plots
Single Carrier Operation - QPSK

Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	B
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Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	M
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ANT_2	ANT_3
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Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	T
ANT_0				ANT_1					



Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	B
ANT_0				ANT_1					



Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	B
ANT_0				ANT_1					



Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	B
ANT_0				ANT_1					



Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	M
ANT_0					ANT_1				



Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	T
ANT_2					ANT_3				



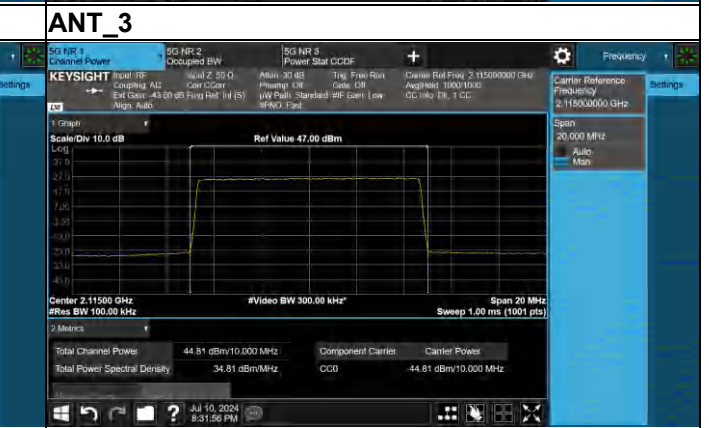
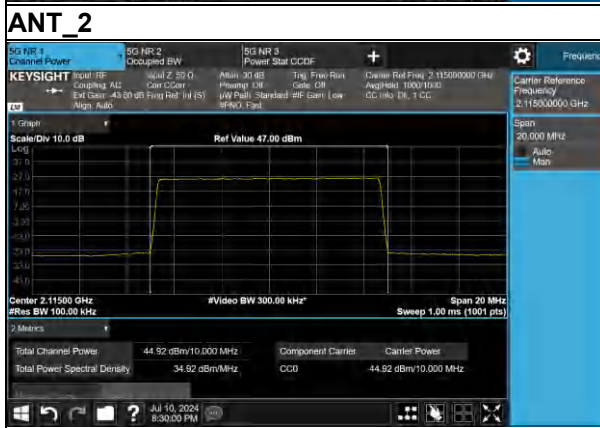
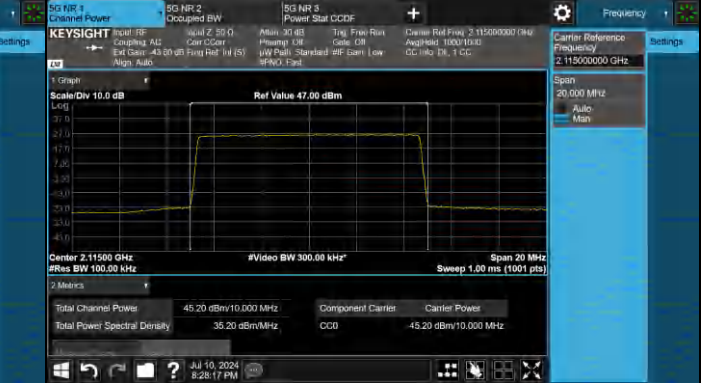
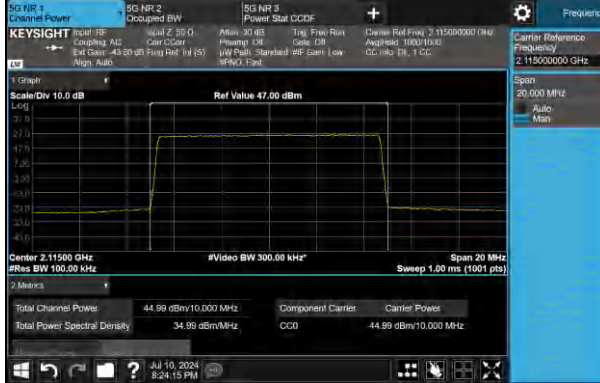
Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	T
ANT_0					ANT_1				



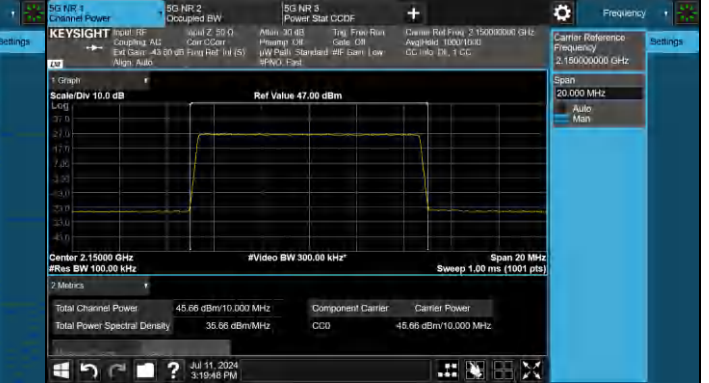
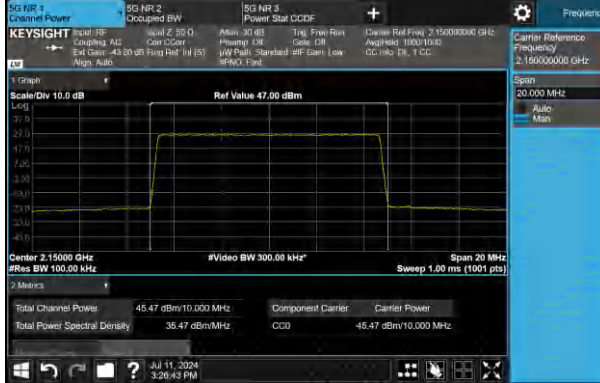
Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	T
ANT_2					ANT_3				



Modulation	QPSK	Bandwidth	10 MHz	RAT	NR	Band	n66	Channel	B
ANT_0				ANT_1					



Modulation	QPSK	Bandwidth	10 MHz	RAT	NR	Band	n66	Channel	M
ANT_0				ANT_1					



ANT_2

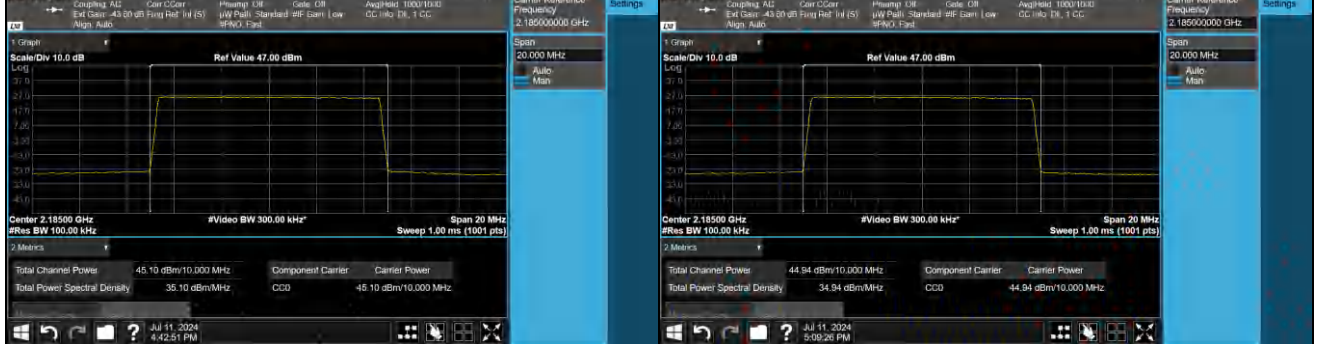
ANT_3



Modulation	QPSK	Bandwidth	10 MHz	RAT	NR	Band	n66	Channel	T
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Modulation	QPSK	Bandwidth	10 MHz	RAT	NR	Band	n66	Channel	T
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Modulation	QPSK	Bandwidth	25 MHz	RAT	NR	Band	n66	Channel	B
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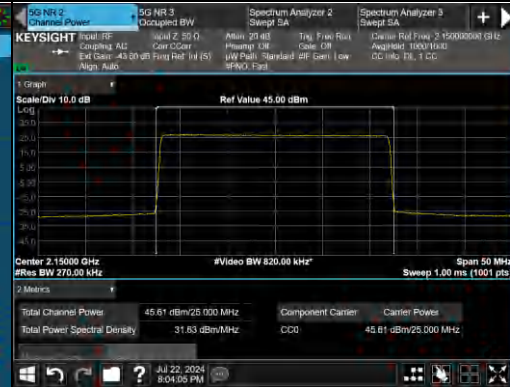
Modulation	QPSK	Bandwidth	25 MHz	RAT	NR	Band	n66	Channel	B
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Modulation	QPSK	Bandwidth	25 MHz	RAT	NR	Band	n66	Channel	M
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ANT_0

ANT_1



ANT_2

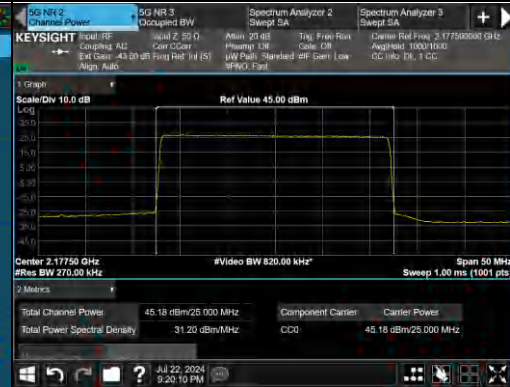
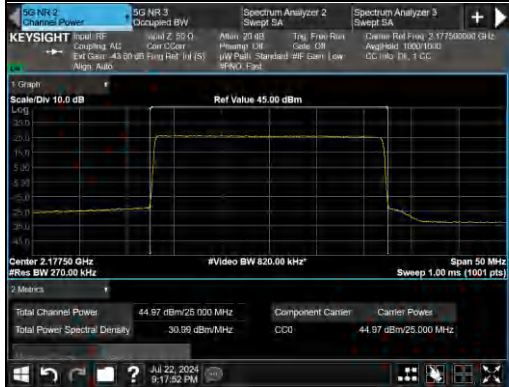
ANT_3



Modulation	QPSK	Bandwidth	25 MHz	RAT	NR	Band	n66	Channel	T
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ANT_0

ANT_1



ANT_2

ANT_3



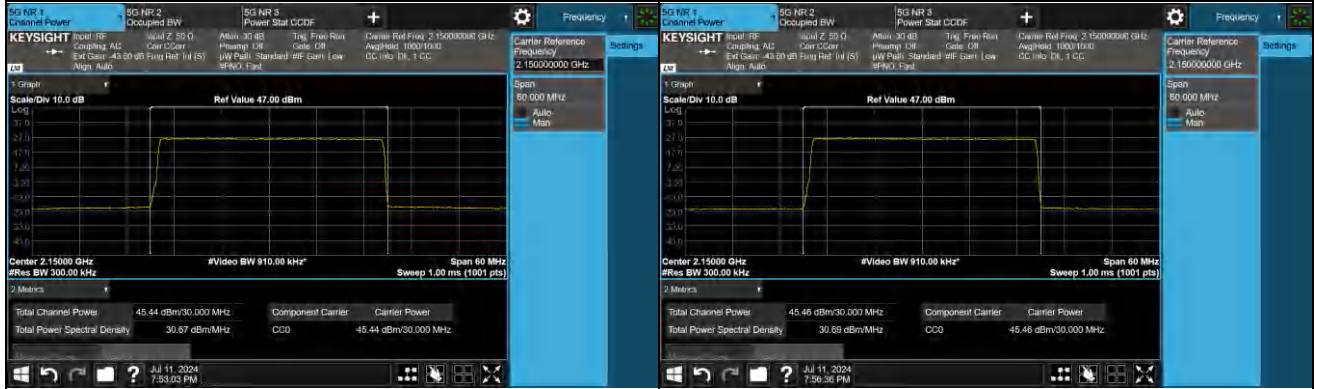
Modulation	QPSK	Bandwidth	30 MHz	RAT	NR	Band	n66	Channel	B
ANT_0				ANT_1					



Modulation	QPSK	Bandwidth	30 MHz	RAT	NR	Band	n66	Channel	M
ANT_2				ANT_3					



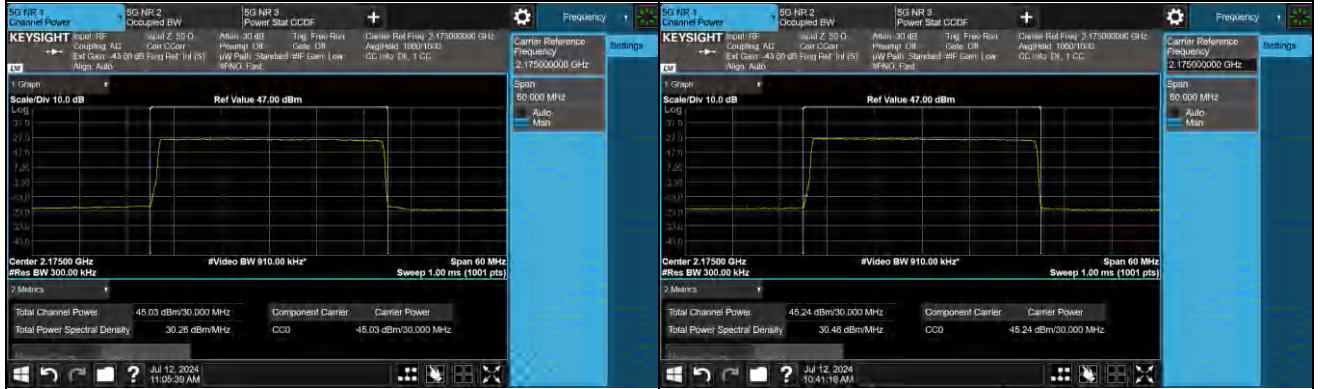
Modulation	QPSK	Bandwidth	30 MHz	RAT	NR	Band	n66	Channel	M
ANT_0				ANT_1					



Modulation	QPSK	Bandwidth	30 MHz	RAT	NR	Band	n66	Channel	M
ANT_2				ANT_3					



Modulation	QPSK	Bandwidth	30 MHz	RAT	NR	Band	n66	Channel	T
ANT_0				ANT_1					



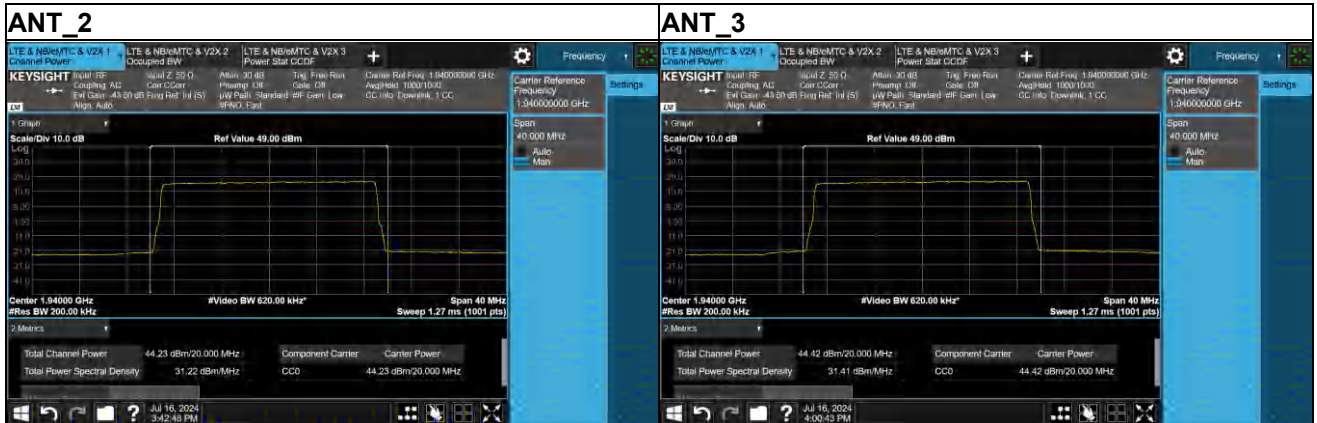
ANT_2				ANT_3					
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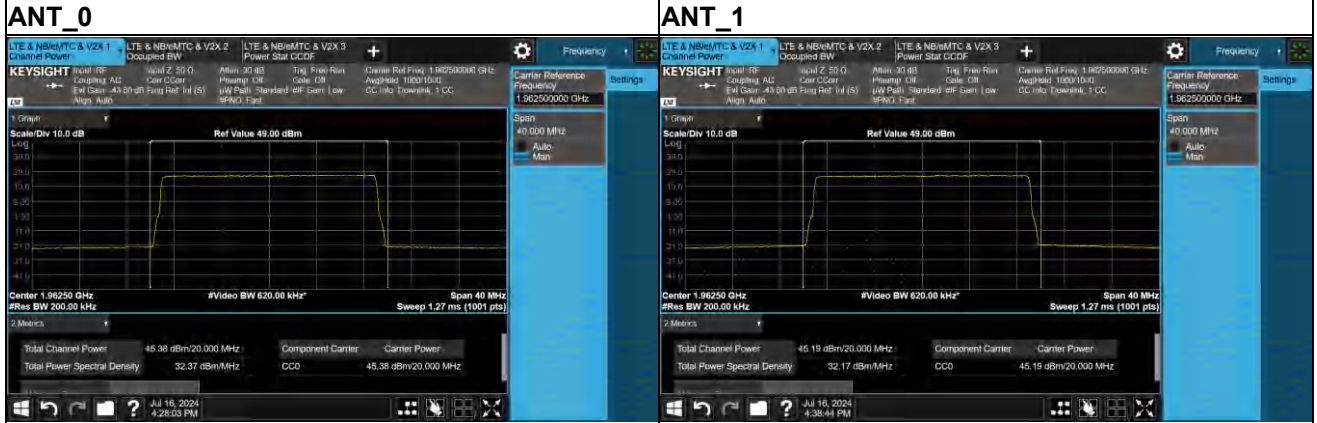
Single Carrier Operation - QAM

Modulation	QAM	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	B
ANT_0				ANT_1					

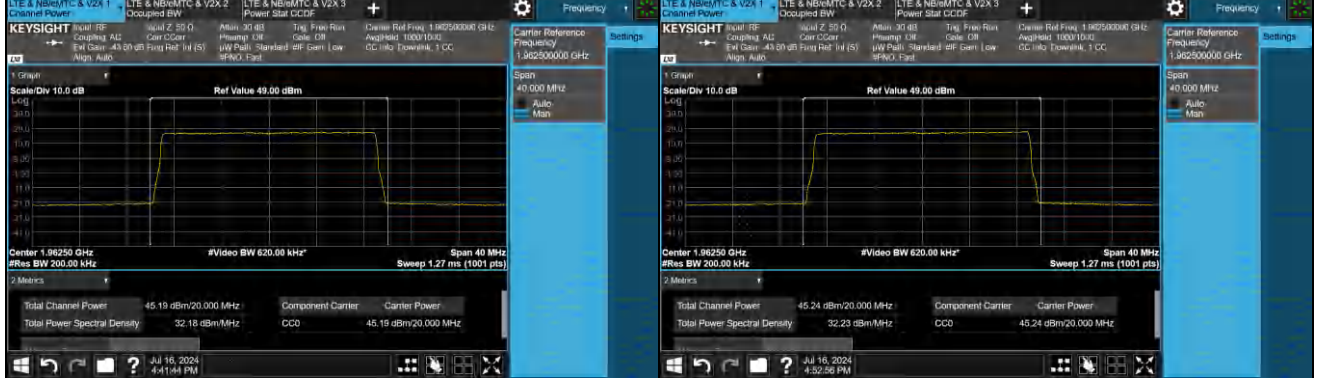




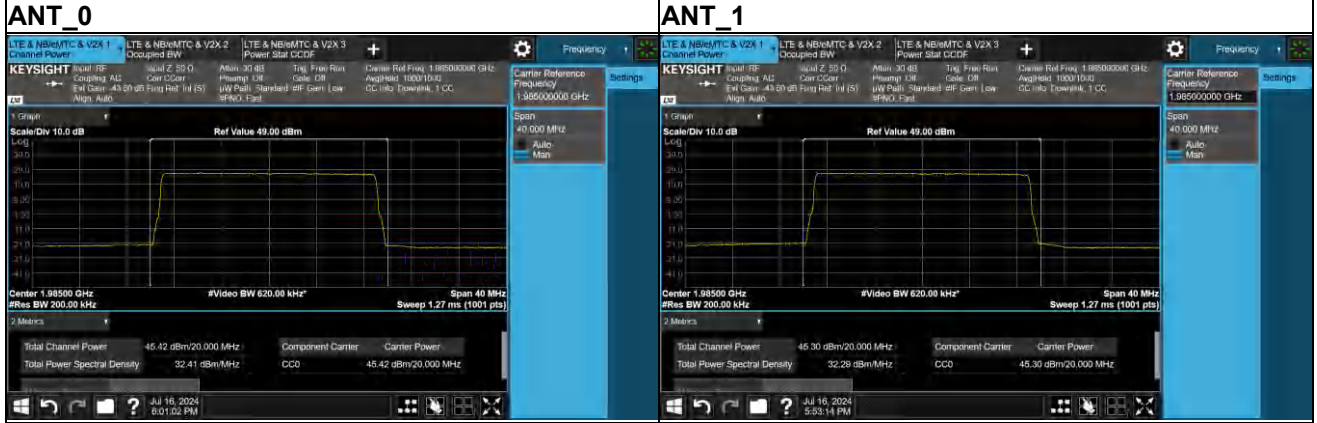
Modulation	QAM	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	M
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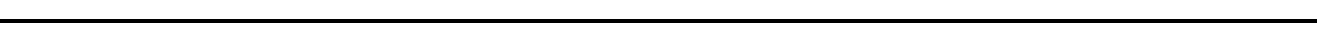
Modulation	QAM	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	T
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Modulation	QAM	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	T
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Modulation	QAM	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	T
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Modulation	QAM	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	B
ANT_0				ANT_1					



ANT_2				ANT_3					
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Modulation	QAM	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	M
ANT_0				ANT_1					



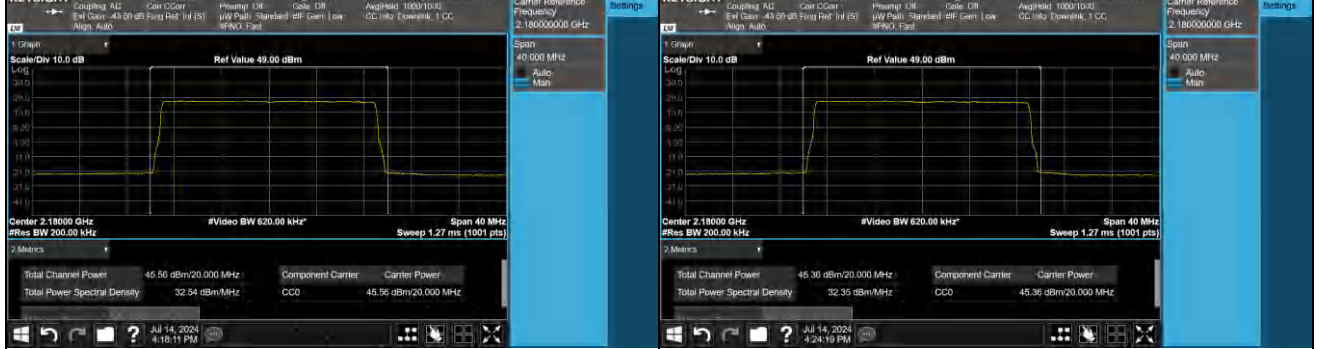
ANT_2				ANT_3					
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Modulation	QAM	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	T
ANT_0				ANT_1					



ANT_2				ANT_3					
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Modulation	QAM	Bandwidth	10 MHz	RAT	NR	Band	n66	Channel	B
ANT_0				ANT_1					



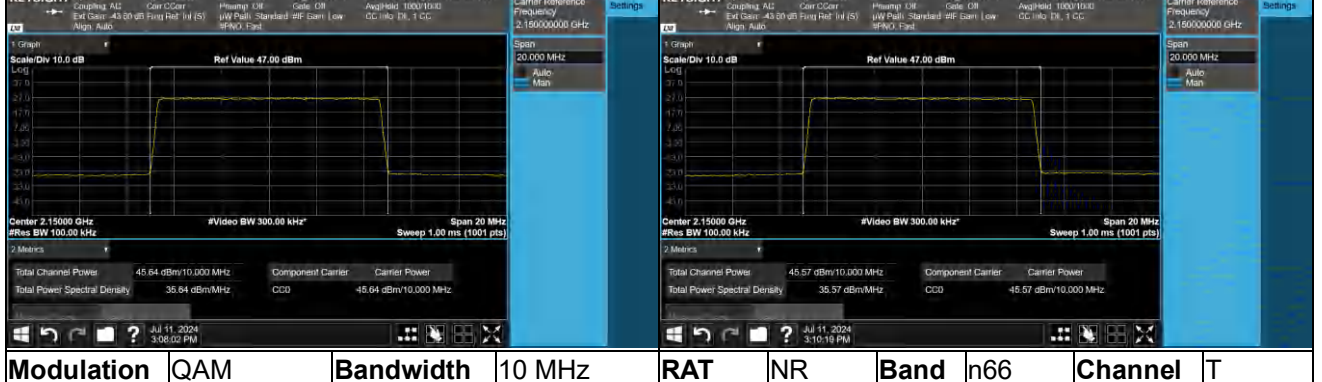
ANT_2				ANT_3					
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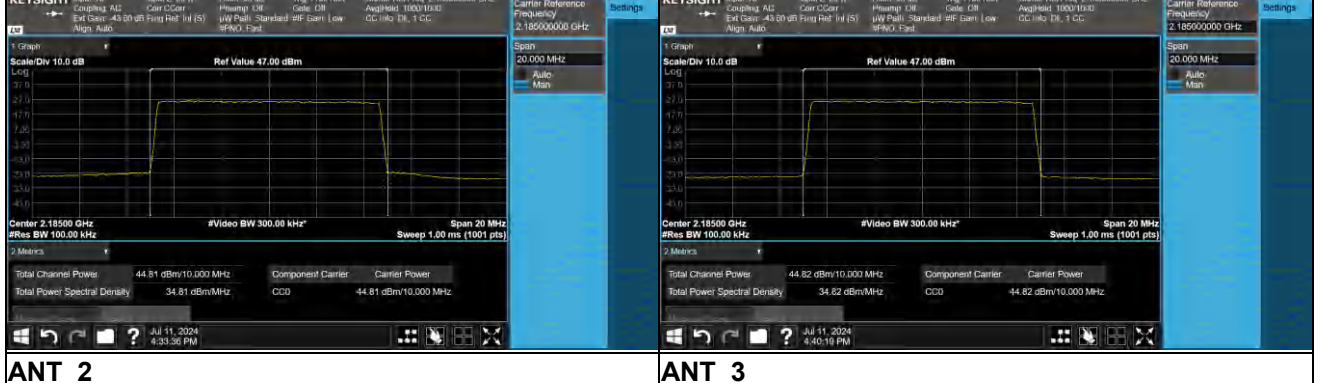
Modulation	QAM	Bandwidth	10 MHz	RAT	NR	Band	n66	Channel	M
ANT_0					ANT_1				



Modulation	QAM	Bandwidth	10 MHz	RAT	NR	Band	n66	Channel	T
ANT_2					ANT_3				



Modulation	QAM	Bandwidth	10 MHz	RAT	NR	Band	n66	Channel	T
ANT_0					ANT_1				



Modulation	QAM	Bandwidth	10 MHz	RAT	NR	Band	n66	Channel	T
ANT_2					ANT_3				



Modulation	QAM	Bandwidth	25 MHz	RAT	NR	Band	n66	Channel	B
ANT_0									
ANT_1									



Modulation	QAM	Bandwidth	25 MHz	RAT	NR	Band	n66	Channel	B
ANT_2									
ANT_3									



Modulation	QAM	Bandwidth	25 MHz	RAT	NR	Band	n66	Channel	M
ANT_0									
ANT_1									



Modulation	QAM	Bandwidth	25 MHz	RAT	NR	Band	n66	Channel	M
ANT_2									
ANT_3									



Modulation	QAM	Bandwidth	25 MHz	RAT	NR	Band	n66	Channel	T
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Modulation	QAM	Bandwidth	25 MHz	RAT	NR	Band	n66	Channel	T
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Modulation	QAM	Bandwidth	30 MHz	RAT	NR	Band	n66	Channel	B
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Modulation	QAM	Bandwidth	30 MHz	RAT	NR	Band	n66	Channel	B
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Modulation	QAM	Bandwidth	30 MHz	RAT	NR	Band	n66	Channel	M
ANT_0				ANT_1					



ANT_2				ANT_3					
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Modulation	QAM	Bandwidth	30 MHz	RAT	NR	Band	n66	Channel	T
ANT_0				ANT_1					



ANT_2				ANT_3					
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Multi-band and Multi-carrier Operation

Config	Multi-band	Bandwidth	20+10 MHz	RAT	LTE+NR	Band	B25+n66	Channel	B+T'
QPSK				QAM					

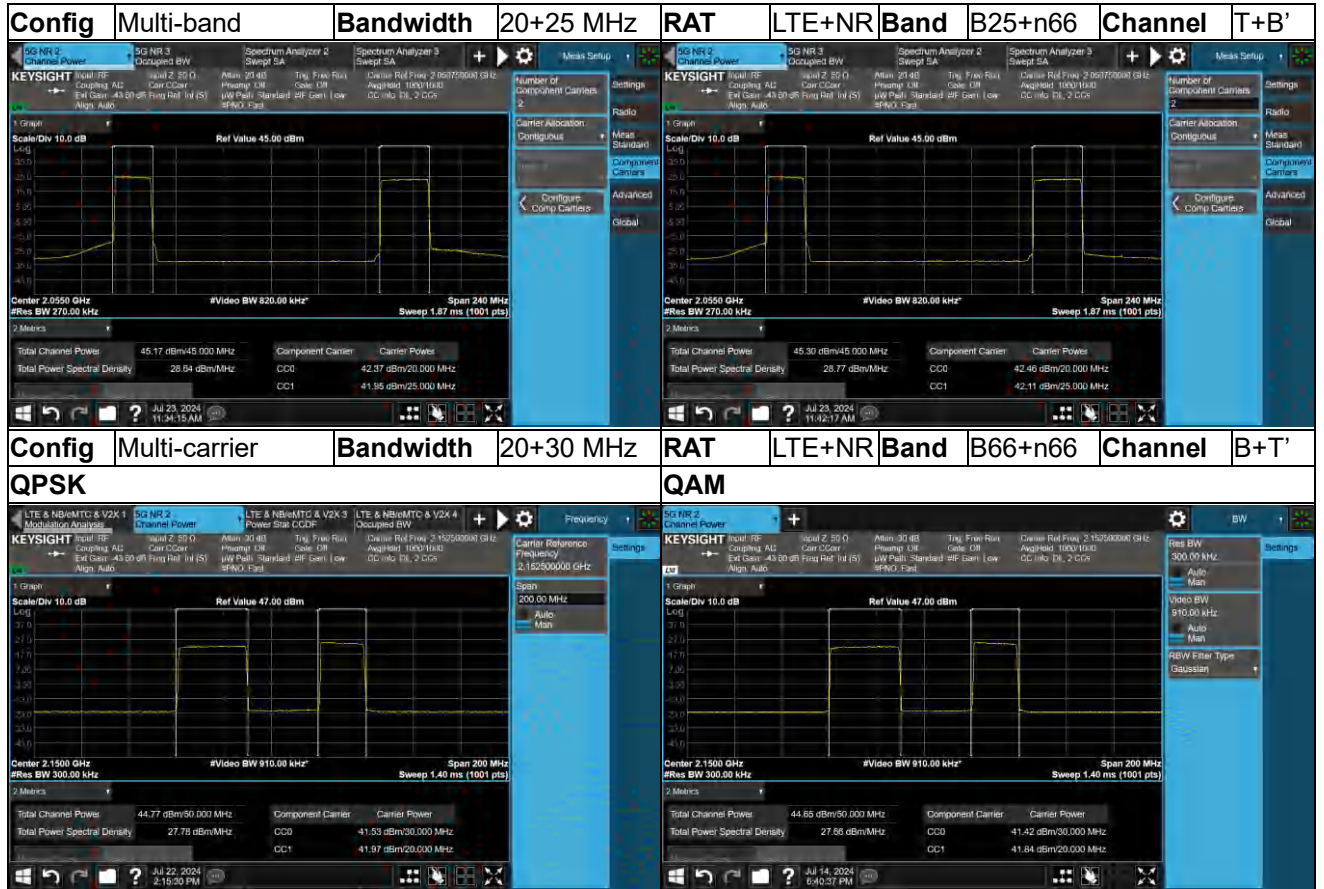


Config	Multi-band	Bandwidth	20+10 MHz	RAT	LTE+NR	Band	B25+n66	Channel	T+B'
QPSK				QAM					



Config	Multi-band	Bandwidth	20+25 MHz	RAT	LTE+NR	Band	B25+n66	Channel	B+T'
QPSK				QAM					





APPENDIX A.3: PEAK TO AVERAGE POWER RATIO (PAPR)

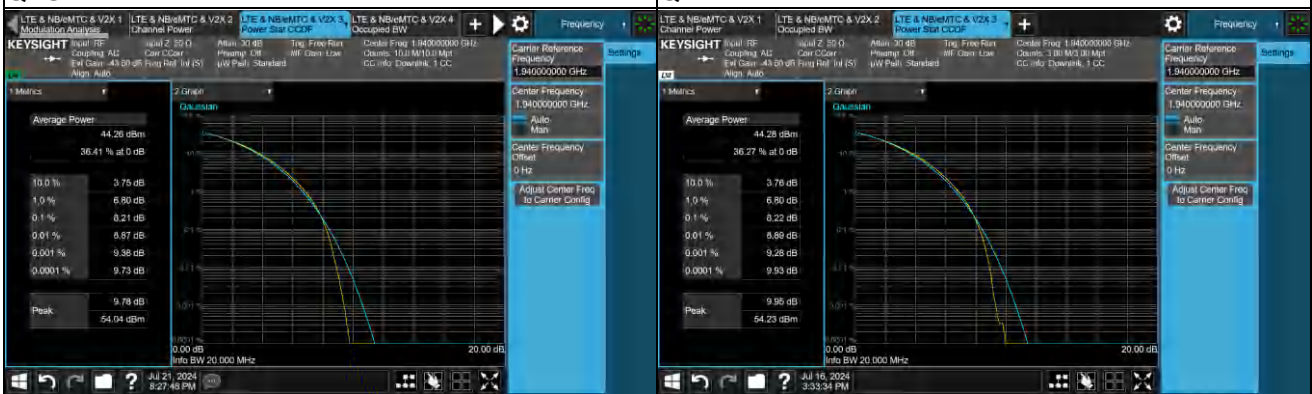
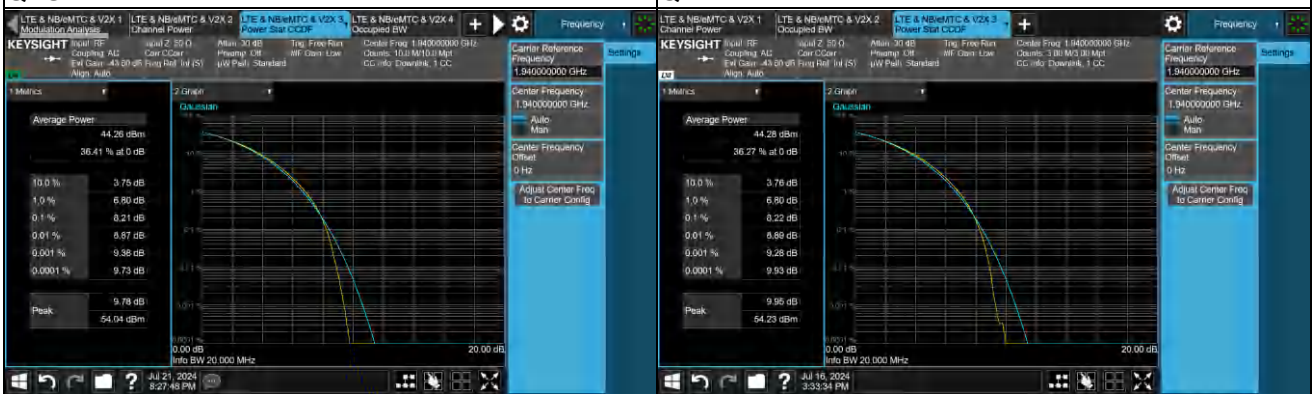
Test Data

Single Carrier Operation

RAT	Band	Test Channel	Carrier(s)	Frequency (MHz)	Modulation	CBW (MHz)	Measured Value PAPR (dB) @ 0.1% ANT_1	Limit (dB)	Verdict
LTE	B25	B	1	1940	QPSK	20	8.21	≤ 13	Pass
LTE	B25	M	1	1962.5	QPSK	20	8.08	≤ 13	Pass
LTE	B25	T	1	1985	QPSK	20	8.10	≤ 13	Pass
LTE	B66	B	1	2120	QPSK	20	8.06	≤ 13	Pass
LTE	B66	M	1	2150	QPSK	20	8.09	≤ 13	Pass
LTE	B66	T	1	2180	QPSK	20	8.09	≤ 13	Pass
NR	N66	B	1	2115	QPSK	10	8.14	≤ 13	Pass
NR	N66	M	1	2150	QPSK	10	8.17	≤ 13	Pass
NR	N66	T	1	2185	QPSK	10	8.14	≤ 13	Pass
NR	N66	B	1	2125	QPSK	30	8.20	≤ 13	Pass
NR	N66	M	1	2150	QPSK	30	8.21	≤ 13	Pass
NR	N66	T	1	2175	QPSK	30	8.17	≤ 13	Pass
LTE	B25	B	1	1940	QAM	20	8.22	≤ 13	Pass
LTE	B25	M	1	1962.5	QAM	20	8.00	≤ 13	Pass
LTE	B25	T	1	1985	QAM	20	8.09	≤ 13	Pass
LTE	B66	B	1	2120	QAM	20	8.04	≤ 13	Pass
LTE	B66	M	1	2150	QAM	20	8.03	≤ 13	Pass
LTE	B66	T	1	2180	QAM	20	8.08	≤ 13	Pass
NR	N66	B	1	2115	QAM	10	8.00	≤ 13	Pass
NR	N66	M	1	2150	QAM	10	8.28	≤ 13	Pass
NR	N66	T	1	2185	QAM	10	8.25	≤ 13	Pass
NR	N66	B	1	2125	QAM	30	8.16	≤ 13	Pass
NR	N66	M	1	2150	QAM	30	8.25	≤ 13	Pass
NR	N66	T	1	2175	QAM	30	8.28	≤ 13	Pass

Test Plots

Single Carrier Operation

ANT	ANT_1	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	B
QPSK									
QAM									
ANT	ANT_1	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	M
QPSK	QAM								



ANT	ANT_1	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	T
QPSK				QAM					



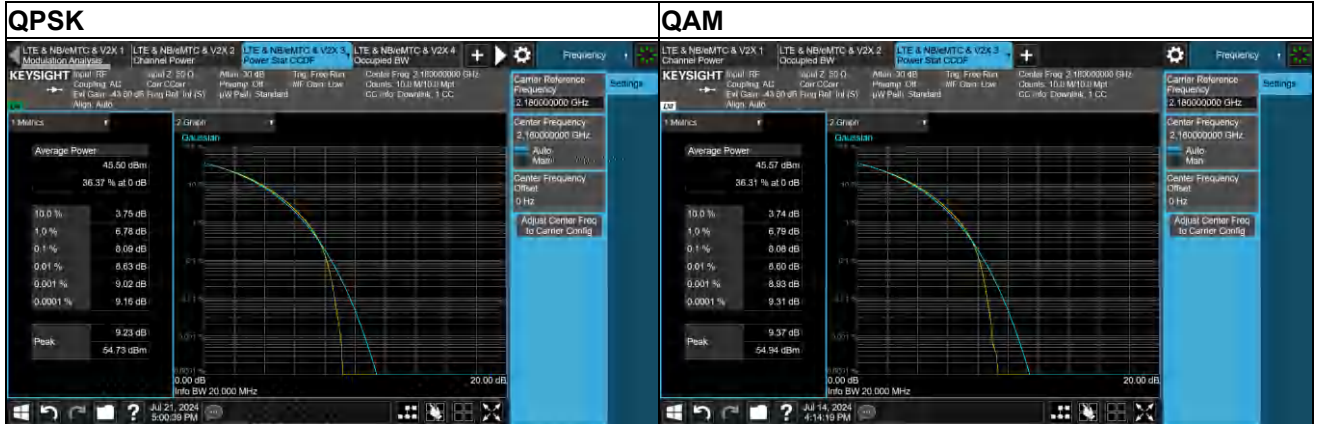
ANT	ANT_1	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	B
QPSK				QAM					



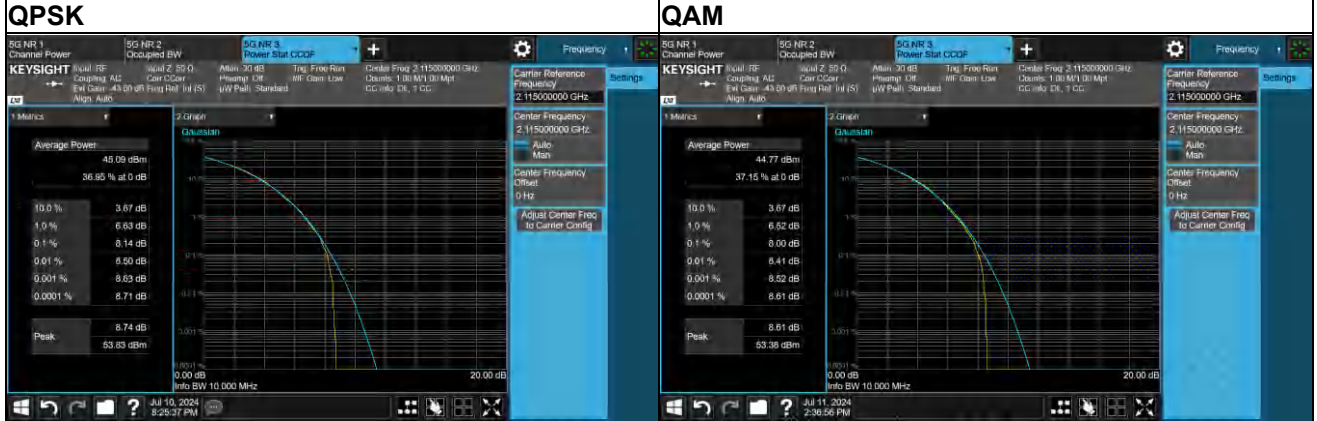
ANT	ANT_1	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	M
QPSK				QAM					



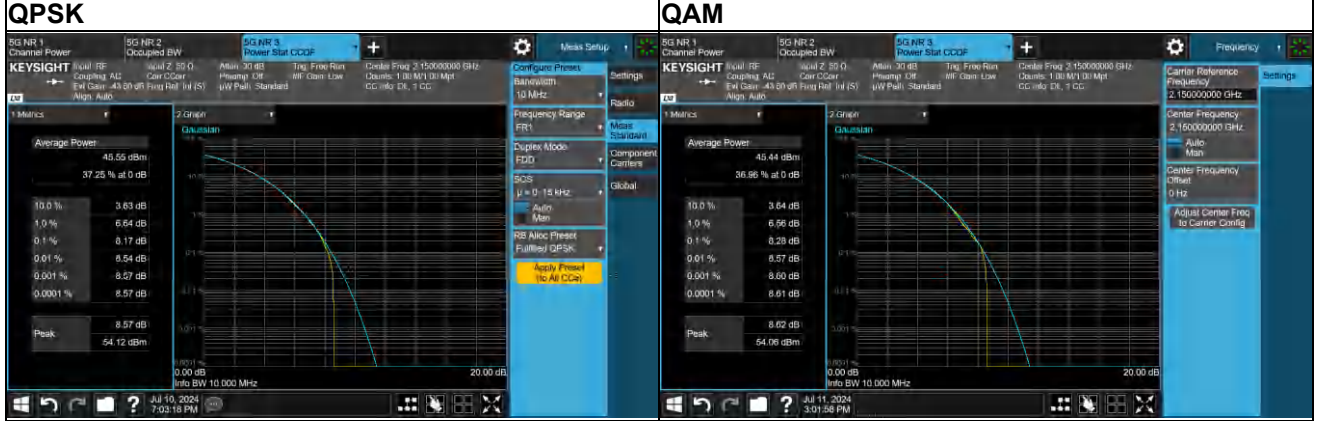
ANT	ANT_1	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	T
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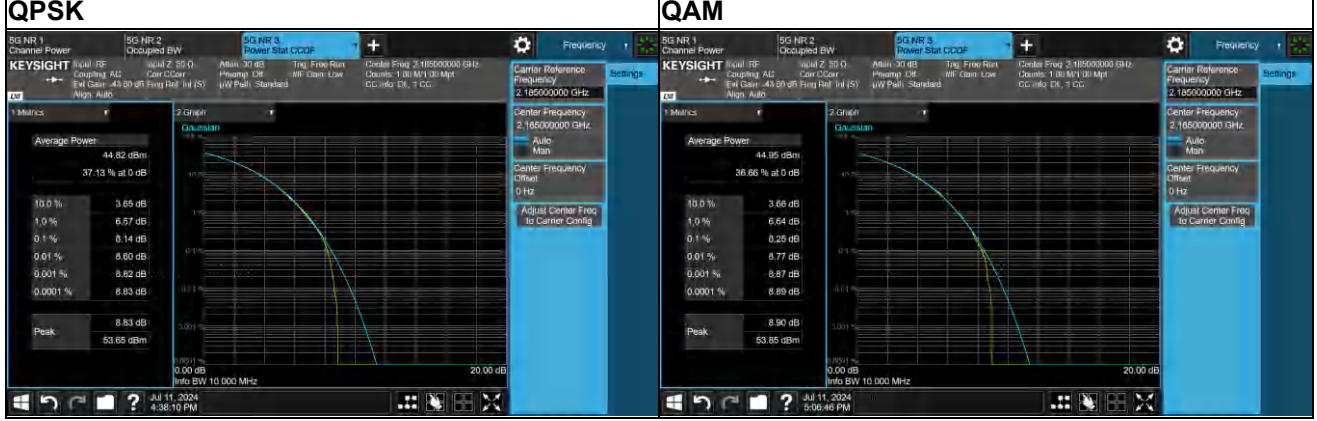
ANT	ANT_1	Bandwidth	10 MHz	RAT	NR	Band	n66	Channel	B
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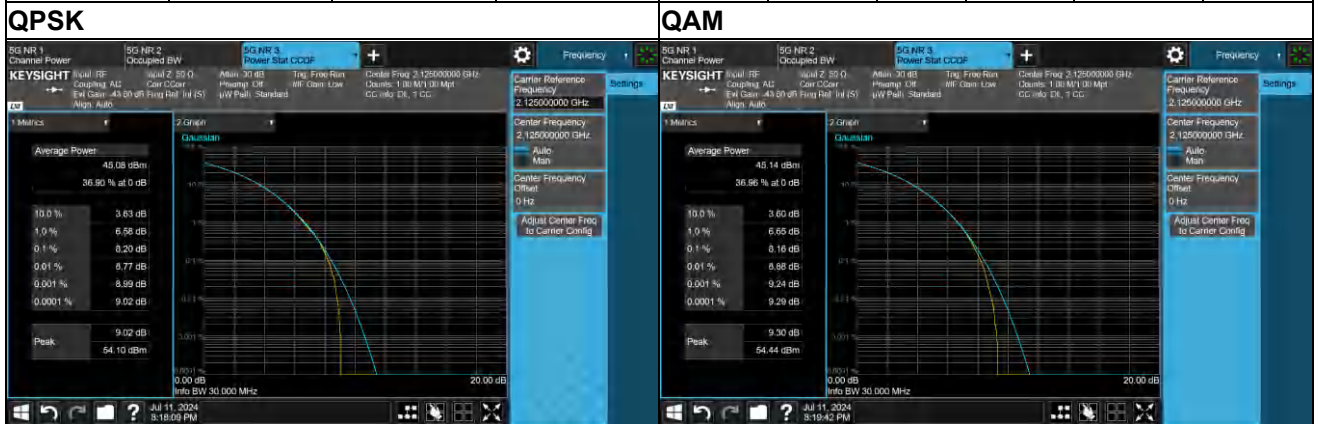
ANT	ANT_1	Bandwidth	10 MHz	RAT	NR	Band	n66	Channel	M
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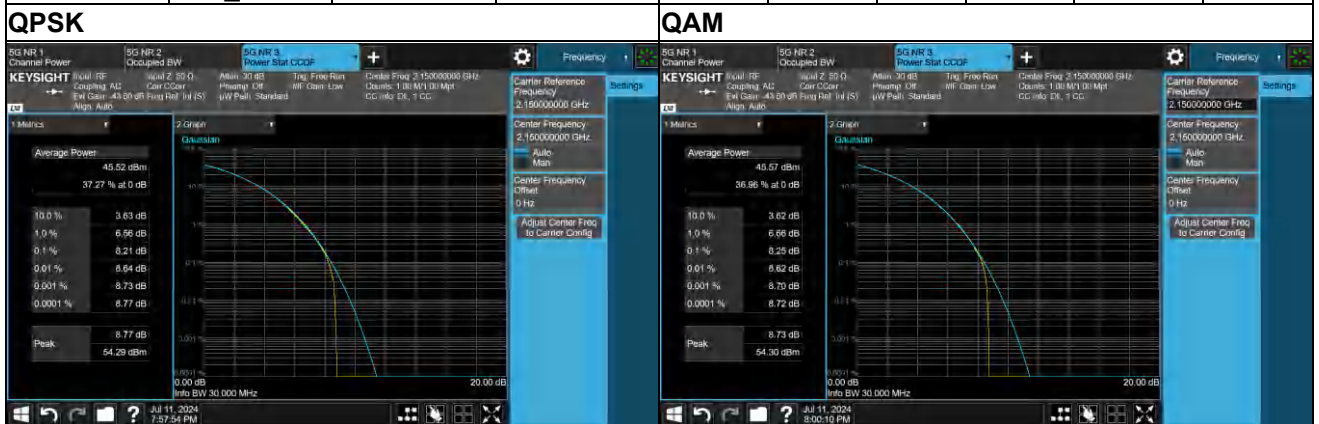
ANT	ANT_1	Bandwidth	10 MHz	RAT	NR	Band	n66	Channel	T
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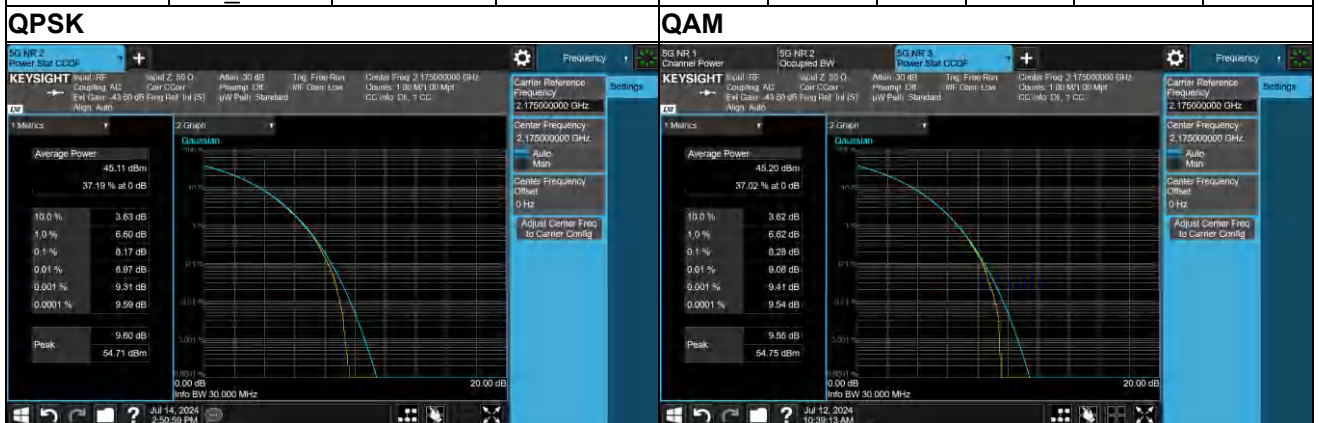
ANT	ANT_1	Bandwidth	30 MHz	RAT	NR	Band	n66	Channel	B
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ANT	ANT_1	Bandwidth	30 MHz	RAT	NR	Band	n66	Channel	M
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ANT	ANT_1	Bandwidth	30 MHz	RAT	NR	Band	n66	Channel	T
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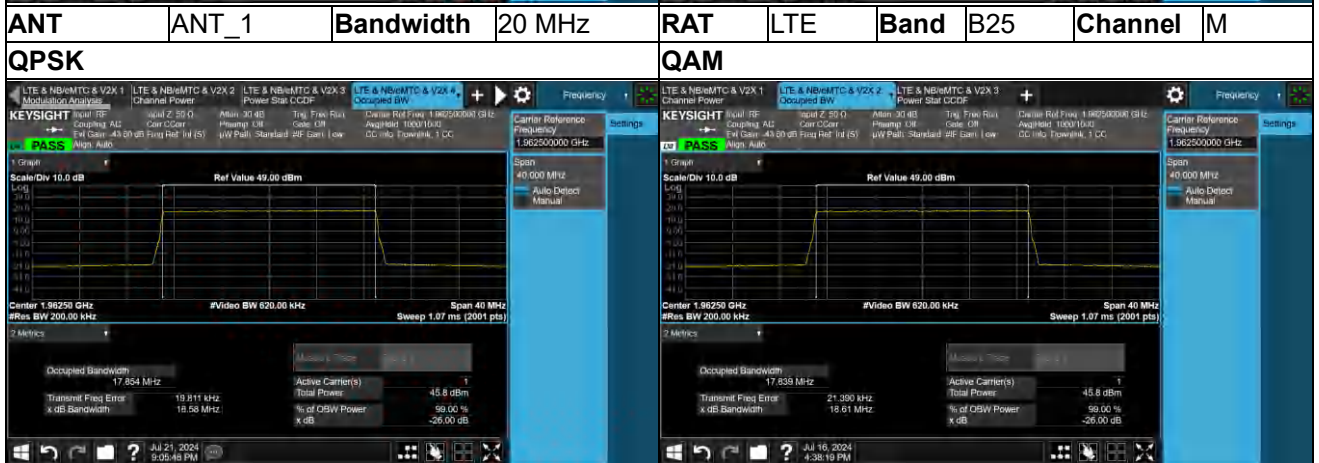
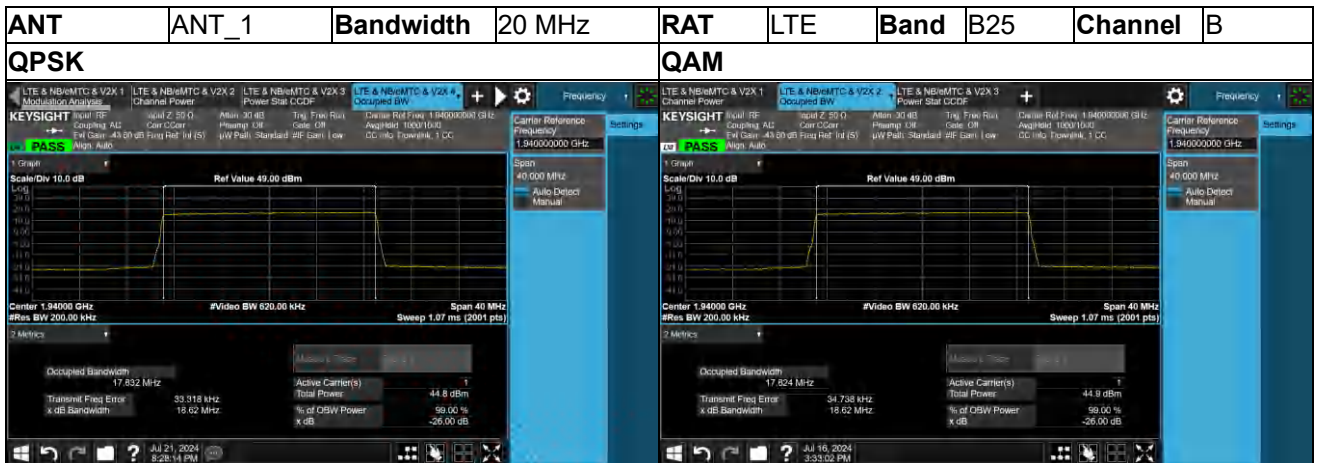


APPENDIX A.4: OCCUPIED BANDWIDTH AND 26dB BANDWIDTH

Test Data
Single Carrier Operation

RAT	Band	ANT Port	Carrier(s)	Modulation	CBW (MHz)	Bandwidth (99% Power and 26 dB) (MHz)					
						Channel B		Channel M		Channel T	
						99% Power	26 dB	99% Power	26 dB	99% Power	26 dB
LTE	B25	1	1	QPSK	20	17.832	18.620	17.854	18.580	17.832	18.610
LTE	B25	1	1	QAM	20	17.824	18.620	17.839	18.610	17.827	18.600
LTE	B66	1	1	QPSK	20	17.840	18.620	17.856	18.580	17.843	18.610
LTE	B66	1	1	QAM	20	17.834	18.580	17.856	18.580	17.839	18.560
NR	N66	1	1	QPSK	10	9.2734	9.6450	9.2806	9.6710	9.2719	9.6740
NR	N66	1	1	QAM	10	9.2739	9.6680	9.2857	9.6510	9.2765	9.6470
NR	N66	1	1	QPSK	30	27.957	29.010	27.984	29.020	27.969	29.020
NR	N66	1	1	QAM	30	28.519	29.550	28.542	29.550	28.522	29.550
NR	N66	1	1	QPSK	25	23.694	24.620	23.715	24.620	23.693	24.610
NR	N66	1	1	QAM	25	23.680	24.600	23.701	24.610	23.692	24.600

Test Plots
Single Carrier Operation



ANT	ANT_1	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	T
QPSK					QAM				



ANT	ANT_1	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	B
QPSK		QAM							



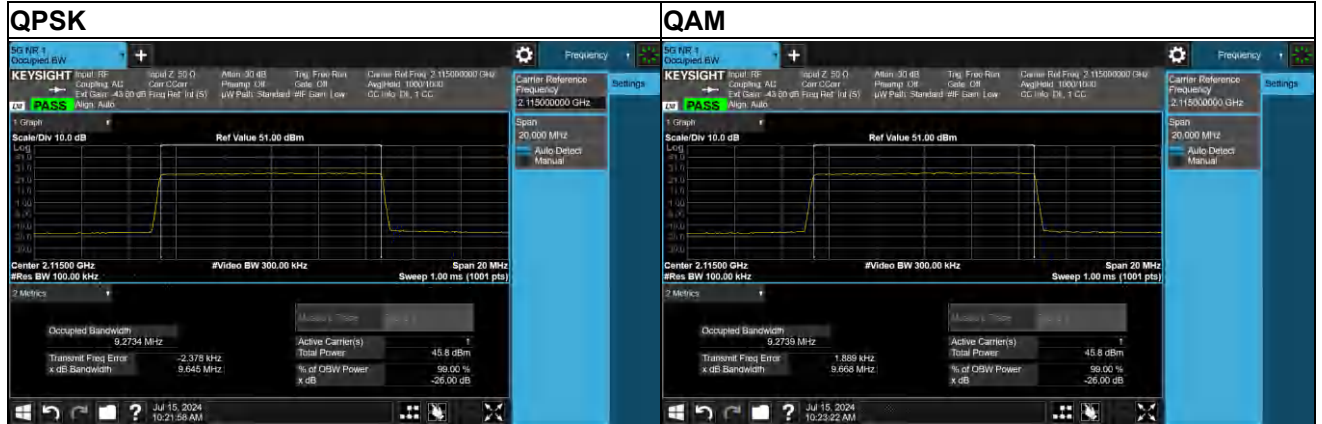
ANT	ANT_1	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	M
QPSK		QAM							



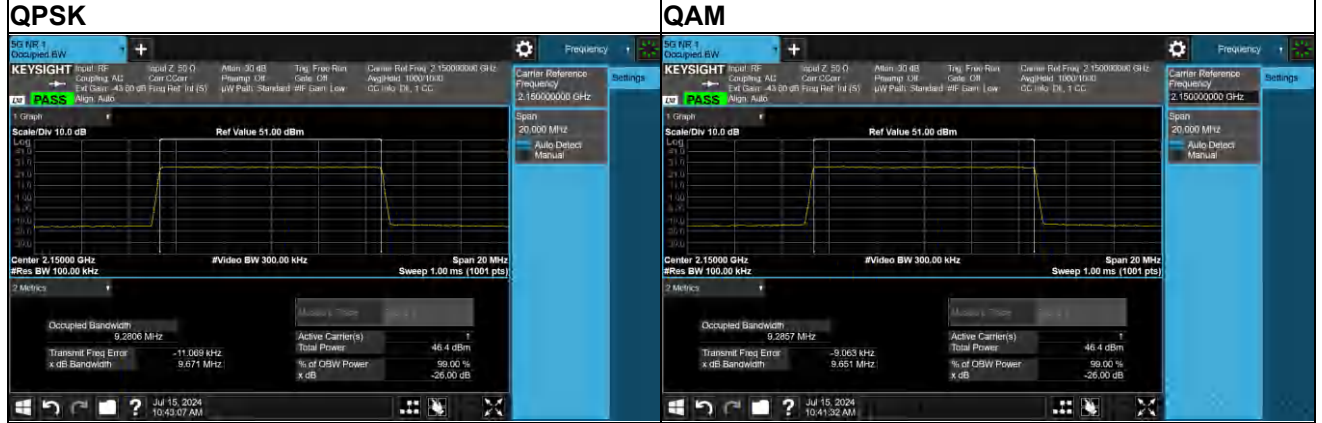
ANT	ANT_1	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	T
QPSK		QAM							



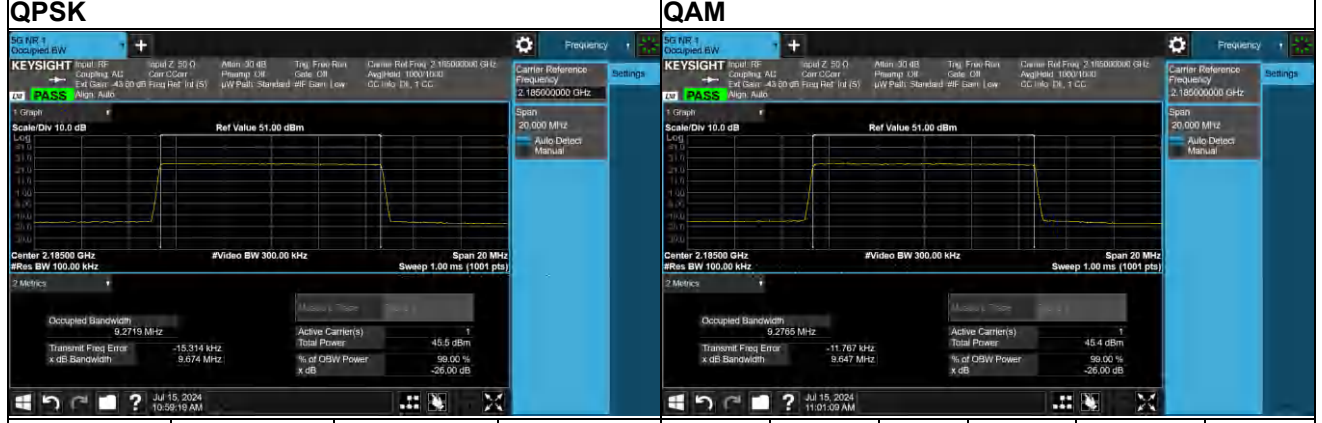
ANT	ANT_1	Bandwidth	10 MHz	RAT	NR	Band	N66	Channel	B
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ANT	ANT_1	Bandwidth	10 MHz	RAT	NR	Band	N66	Channel	M
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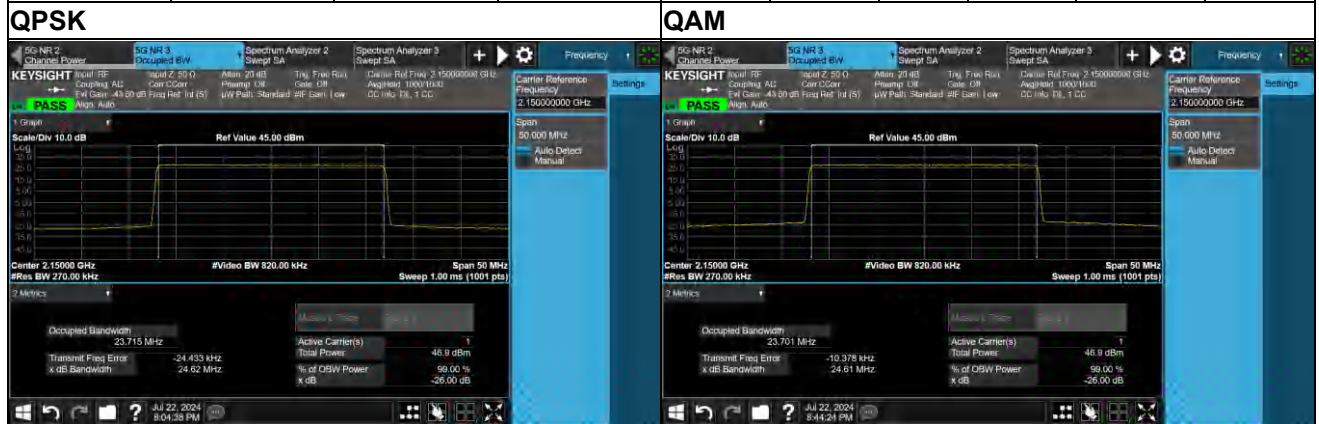
ANT	ANT_1	Bandwidth	10 MHz	RAT	NR	Band	N66	Channel	T
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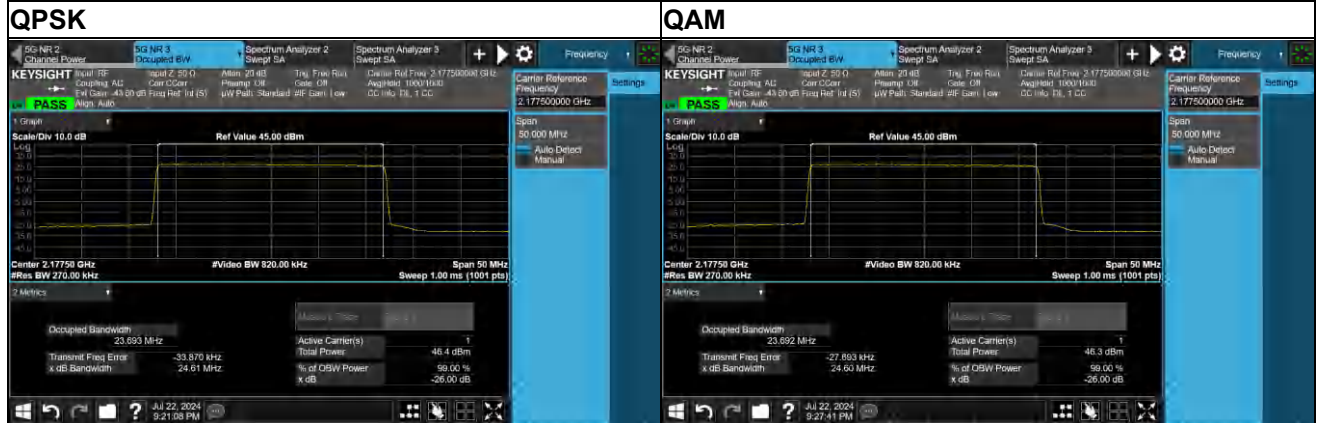
ANT	ANT_1	Bandwidth	25 MHz	RAT	NR	Band	N66	Channel	B
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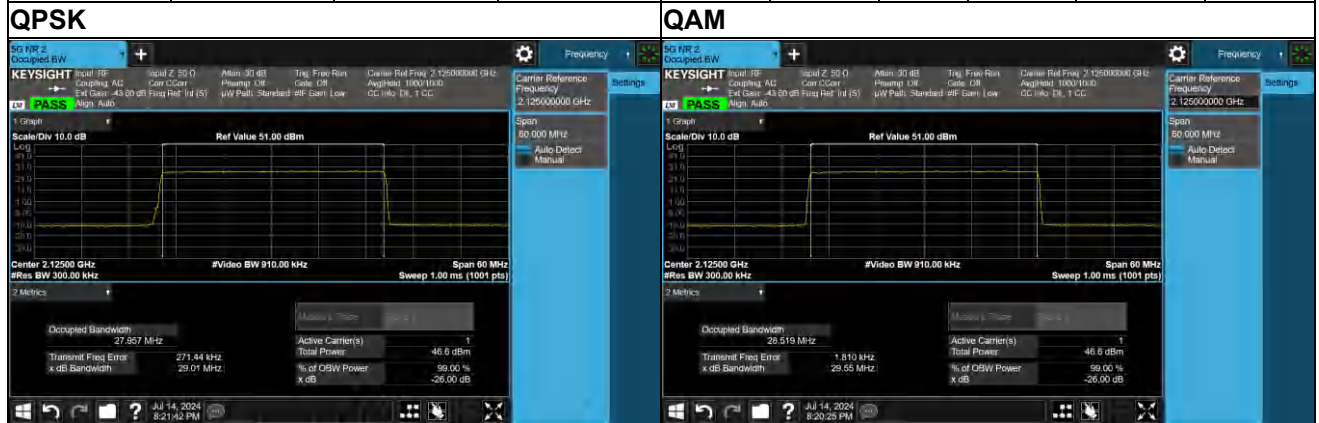
ANT	ANT_1	Bandwidth	25 MHz	RAT	NR	Band	N66	Channel	M
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ANT	ANT_1	Bandwidth	25 MHz	RAT	NR	Band	N66	Channel	T
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ANT	ANT_1	Bandwidth	30 MHz	RAT	NR	Band	N66	Channel	B
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ANT	ANT_1	Bandwidth	30 MHz	RAT	NR	Band	N66	Channel	M
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QPSK				QAM					
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ANT	ANT_1	Bandwidth	30 MHz	RAT	NR	Band	N66	Channel	T
QPSK				QAM					



APPENDIX A.5: TRANSMITTER UNWANTED EMISSIONS AT ANTENNA TERMINALS

Test Data

Band Edge – Conducted measurement

Single Carrier Operation

RAT	Band	Modulation	Bandwidth (MHz)	Measured Results (dBm)		Limit (dBm)	Verdict
				Lower Range	Upper Range		
LTE	B25	QPSK	20	-25.099	-23.458	-13	Pass
LTE	B66	QPSK	20	-25.688	-23.503	-13	Pass
NR	N66	QPSK	10	-22.566	-23.911	-13	Pass
NR	N66	QPSK	30	-22.340	-19.387	-13	Pass
NR	N66	QPSK	25	-19.025	-19.156	-13	Pass

Multi-band and Multi-carrier Operation

RAT	Band	Modulation	Channel	Bandwidth (MHz)	Measured Results (dBm)		Limit (dBm)	Verdict
					Lower Range	Upper Range		
LTE+NR	B25+N66	QPSK	B+T'	20+10	-27.527	-24.372	-13	Pass
LTE+NR	B25+N66	QPSK	T+B'	20+10	-14.007	-26.334	-13	Pass
LTE+NR	B25+N66	QPSK	B+T'	20+25	-22.912	-21.951	-13	Pass
LTE+NR	B25+N66	QPSK	T+B'	20+25	-21.599	-21.835	-13	Pass
LTE+NR	B66+N66	QPSK	B+T'	20+30	-24.160	-24.334	-13	Pass

Unwanted Emissions – Conducted measurement

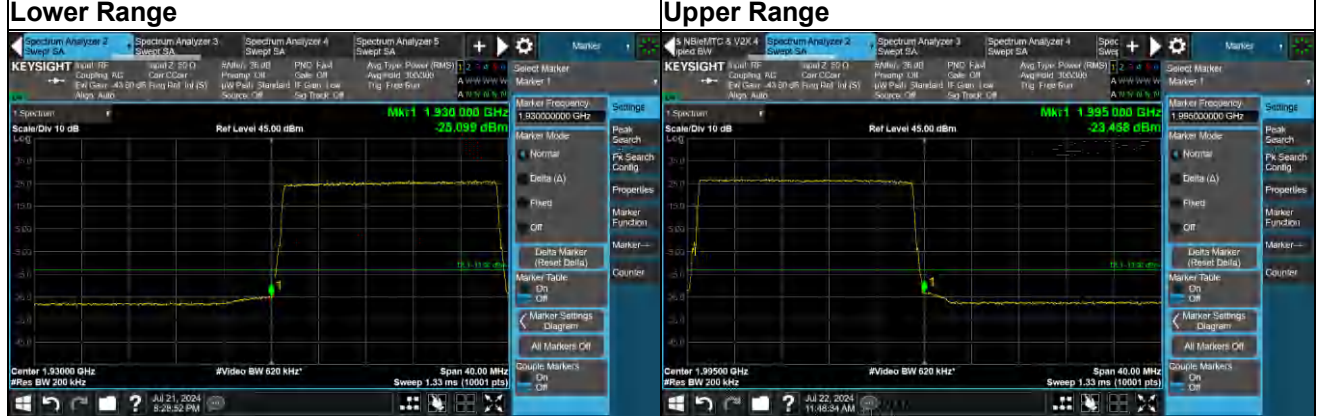
RAT	Band	CBW (MHz)	Modulation	Channel	Test Frequencies (MHz)	Measured Results (dBm)					Limit (dBm)	Verdict
						Range 1	Range 2	Range 3	Range 4	Range 5		
LTE	B25	20	QPSK	B	1940	-23.318	-25.554	-31.189	-18.217	-18.756	-13	Pass
LTE	B25	20	QPSK	M	1962.5	-23.061	-25.266	-31.180	-18.687	-18.714	-13	Pass
LTE	B25	20	QPSK	T	1985	-23.805	-23.790	-31.113	-18.731	-18.728	-13	Pass
LTE	B66	20	QPSK	B	2120	-24.544	-23.196	-31.291	-18.452	-18.777	-13	Pass
LTE	B66	20	QPSK	M	2150	-23.624	-25.362	-32.876	-18.927	-19.049	-13	Pass
LTE	B66	20	QPSK	T	2180	-23.795	-25.922	-31.402	-18.648	-18.866	-13	Pass
NR	N66	10	QPSK	B	2115	-23.677	-25.344	-31.299	-18.934	-18.904	-13	Pass
NR	N66	10	QPSK	M	2150	-23.637	-25.538	-31.506	-18.560	-18.483	-13	Pass
NR	N66	10	QPSK	T	2185	-23.866	-25.425	-31.380	-18.584	-18.425	-13	Pass
NR	N66	30	QPSK	B	2125	-23.689	-25.804	-31.271	-18.845	-18.883	-13	Pass
NR	N66	30	QPSK	M	2150	-23.527	-26.869	-31.123	-18.773	-19.165	-13	Pass
NR	N66	30	QPSK	T	2175	-23.212	-25.025	-31.190	-18.892	-18.651	-13	Pass
NR	N66	25	QPSK	B	2122.5	-23.424	-25.520	-31.438	-18.609	-18.758	-13	Pass
NR	N66	25	QPSK	M	2150	-23.175	-25.436	-31.306	-18.835	-18.784	-13	Pass
NR	N66	25	QPSK	T	2177.5	-24.161	-25.894	-31.199	-18.922	-18.778	-13	Pass
LTE+NR	N66+B25	10+20	QPSK	B+T'	2115+1985	-23.939	-25.023	-31.251	-18.941	-18.740	-13	Pass
LTE+NR	N66+B25	10+20	QPSK	T+B'	2185+1940	-24.321	-25.713	-31.371	-18.860	-18.907	-13	Pass
LTE+NR	N66+B25	25+20	QPSK	B+T'	2122.5+1985	-23.899	-22.435	-31.110	-18.775	-18.636	-13	Pass
LTE+NR	N66+B25	25+20	QPSK	T+B'	2177.5+1940	-23.934	-25.590	-31.106	-18.422	-18.780	-13	Pass
LTE+NR	N66+B66	30+20	QPSK	B+T'	2125+2180	-23.960	-23.726	-31.145	-18.504	-18.653	-13	Pass

Note:

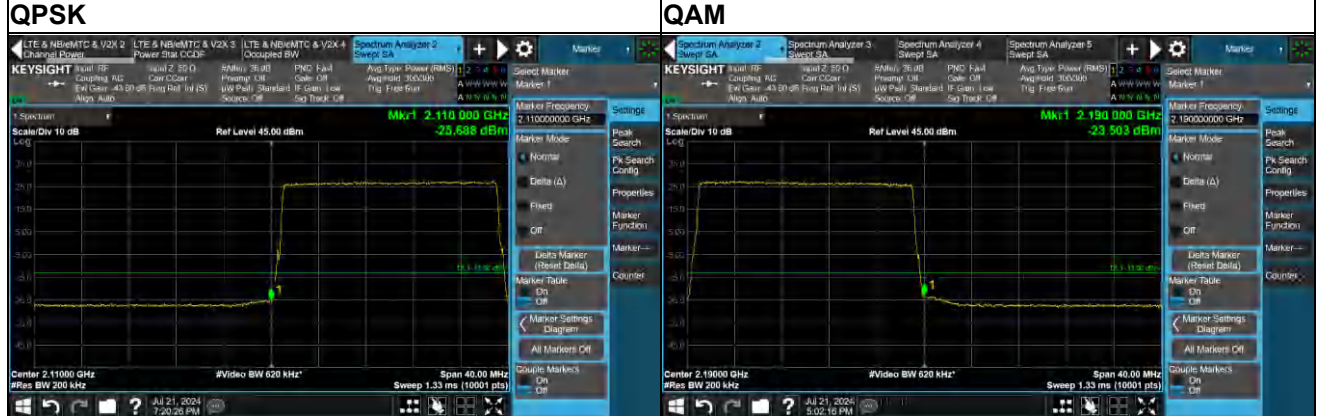
1. The frequency range of Rang 1 is from 9 kHz to 150 kHz, the frequency range of Rang 2 is from 150 kHz to 30 MHz, the frequency range of Rang 3 is from 30 MHz to 1 GHz, the frequency range of Rang 4 is from 1 GHz to 12.75 GHz, the frequency range of Range 5 is from 12.75 GHz to 26.5 GHz.

Test Plots
 Band Edge
 Single Carrier Operation

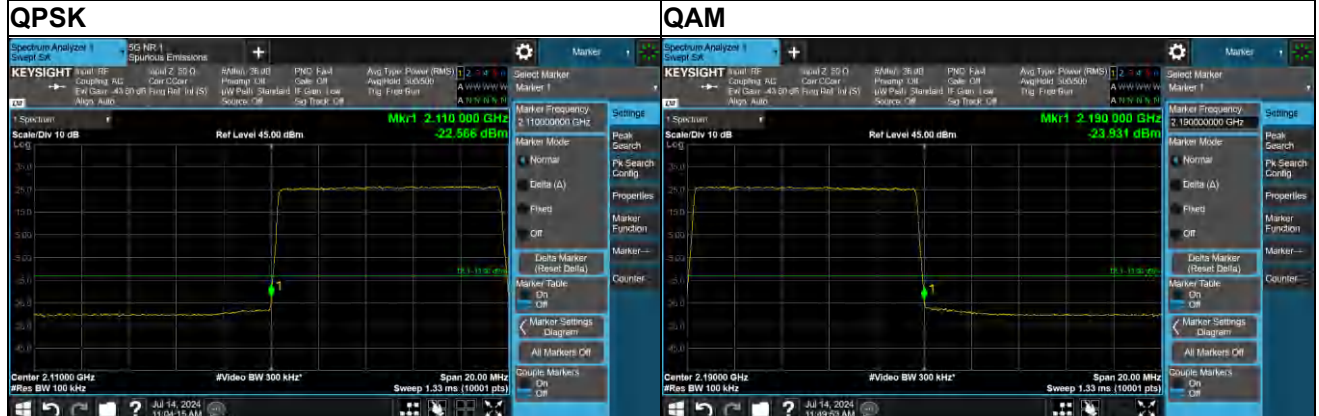
ANT	ANT_1	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	B & T
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ANT	ANT_1	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	B & T
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ANT	ANT_1	Bandwidth	10 MHz	RAT	NR	Band	N66	Channel	B & T
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ANT	ANT_1	Bandwidth	25 MHz	RAT	NR	Band	N66	Channel	B & T
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QPSK QAM

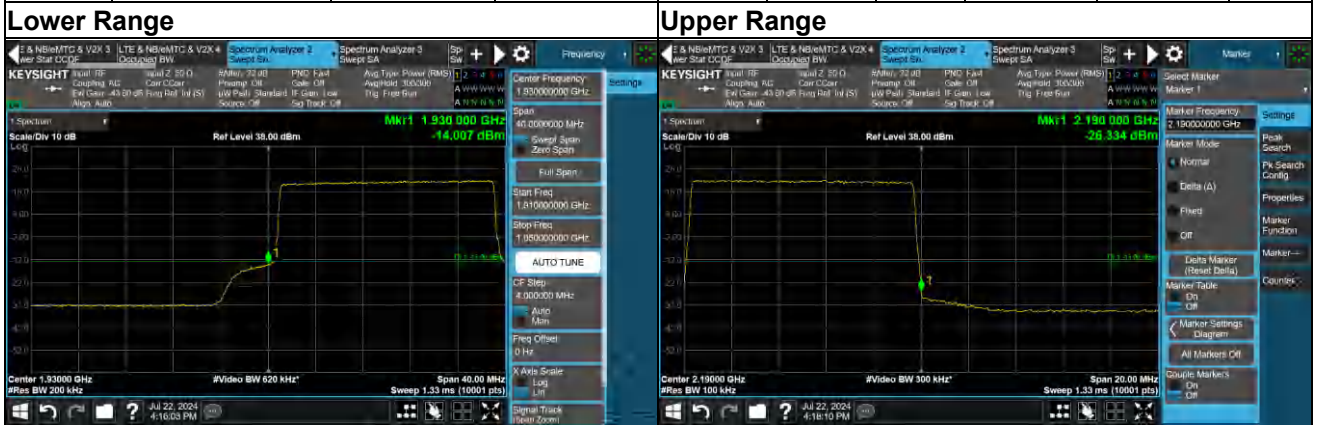


ANT	ANT_1	Bandwidth	30 MHz	RAT	NR	Band	N66	Channel	B & T
QPSK				QAM					



Multi-band and Multi-carrier Operation

Config	Multi-band	Bandwidth	20+10 MHz	RAT	LTE+NR	Band	B25+n66	Channel	B+T'
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Config	Multi-band	Bandwidth	20+10 MHz	RAT	LTE+NR	Band	B25+n66	Channel	T+B'
Lower Range				Upper Range					



Config	Multi-band	Bandwidth	20+25 MHz	RAT	LTE+NR	Band	B25+n66	Channel	B+T'
Lower Range				Upper Range					




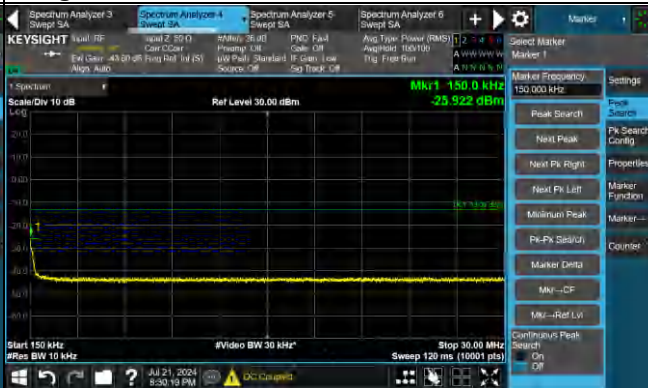



Config	Multi-band	Bandwidth	20+25 MHz	RAT	LTE+NR	Band	B25+n66	Channel	T+B'
Lower Range				Upper Range					

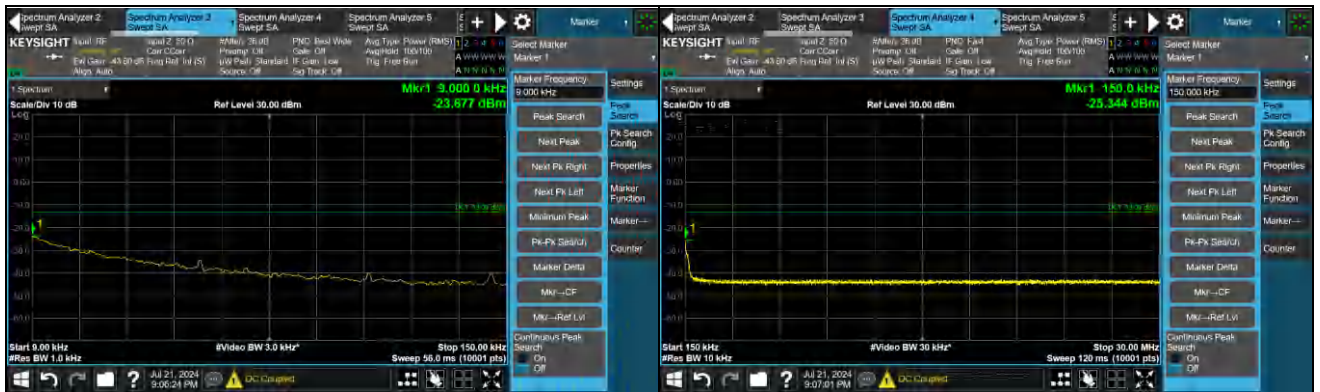


Config	Multi-band	Bandwidth	20+30 MHz	RAT	LTE+NR	Band	B66+n66	Channel	B+T'
Lower Range				Upper Range					



Unwanted Emissions – Conducted measurement

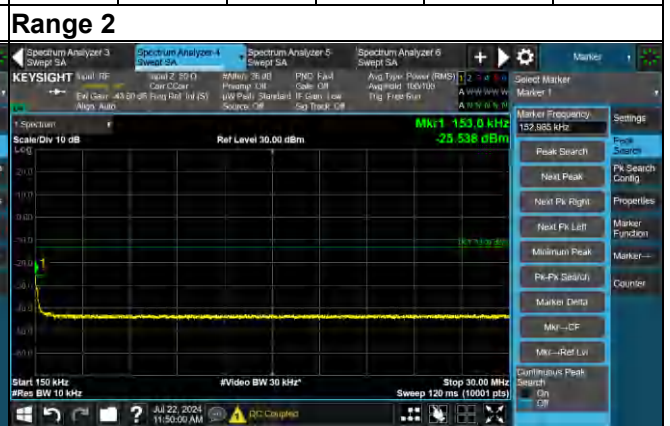
Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	B
Range 1				Range 2					
									
Range 3				Range 4					
									
Range 5				blank					
				blank					
Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	M
Range 1				Range 2					



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Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B25	Channel	T
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Range 3

Range 4



Range 5

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Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	B
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Range 1

Range 2



Range 3

Range 4



Range 5

blank



blank

Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	M
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Range 1

Range 2



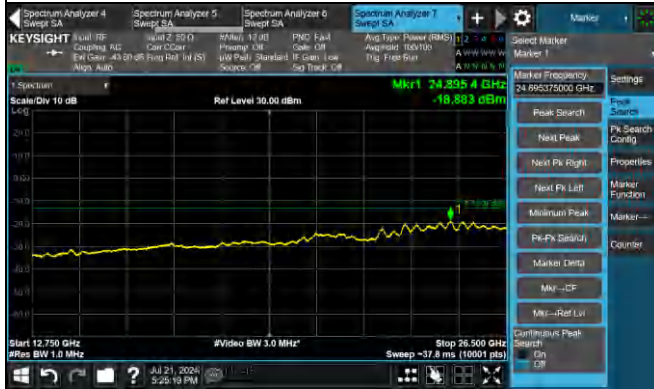
Range 3

Range 4



Range 5

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Modulation	QPSK	Bandwidth	20 MHz	RAT	LTE	Band	B66	Channel	T
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Range 1

Range 2



blank

blank

Modulation	QPSK	Bandwidth	10 MHz	RAT	NR	Band	N66	Channel	B
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Range 3

Range 4



Range 5

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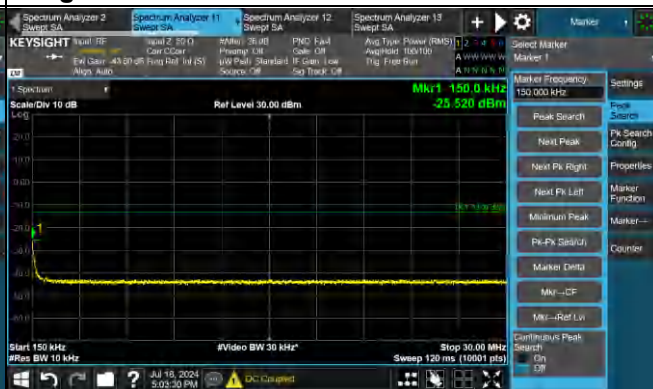


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Modulation	QPSK	Bandwidth	10 MHz	RAT	NR	Band	N66	Channel	M
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Range 1

Range 2



Range 3

Range 4



Range 5

blank



blank

Modulation	QPSK	Bandwidth	10 MHz	RAT	NR	Band	N66	Channel	T
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Range 1

Range 2



Range 3

Range 4



Range 5

blank

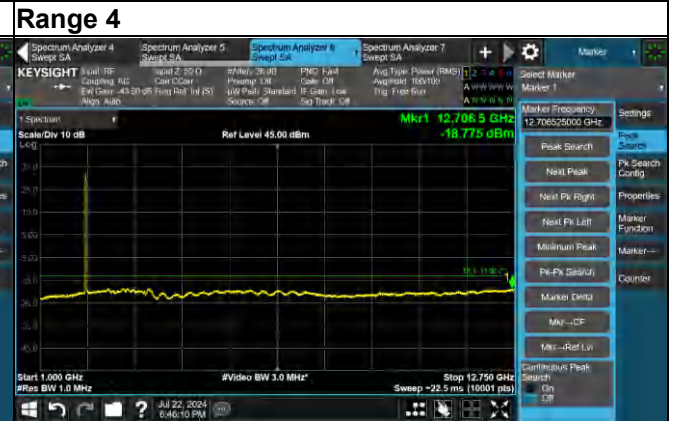
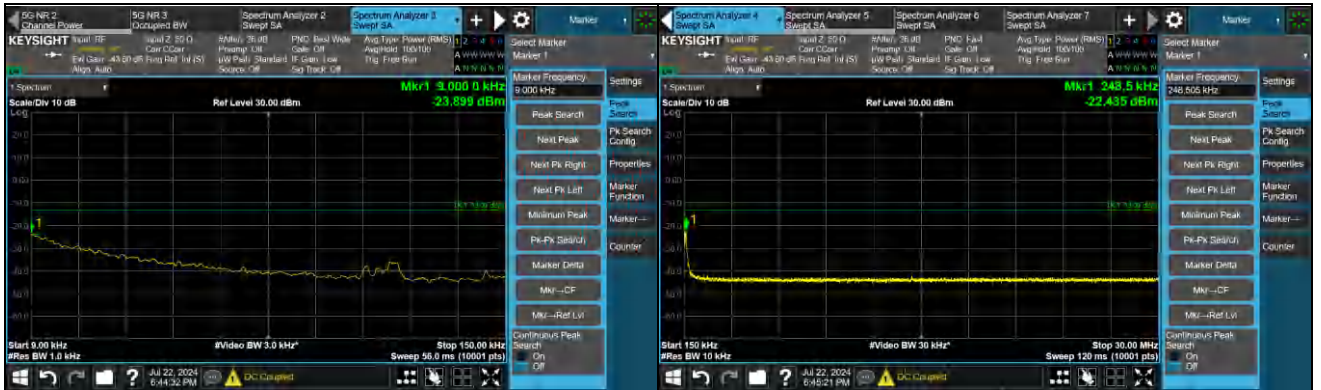


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Modulation	QPSK	Bandwidth	25 MHz	RAT	NR	Band	N66	Channel	B
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Range 1

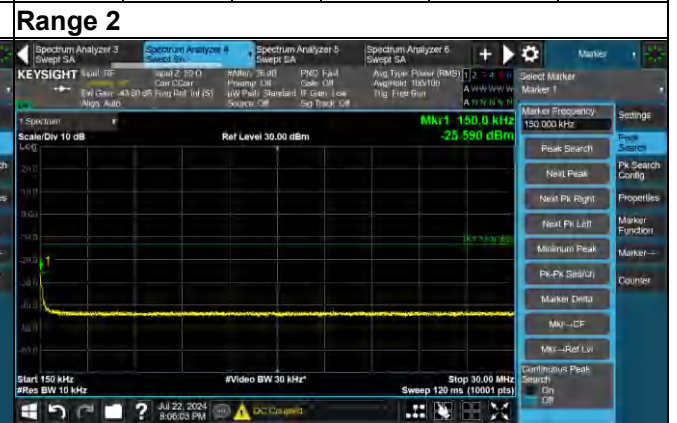
Range 2



blank

blank

Modulation	QPSK	Bandwidth	25 MHz	RAT	NR	Band	N66	Channel	M
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Range 3

Range 4



Range 5

blank



blank

Modulation	QPSK	Bandwidth	25 MHz	RAT	NR	Band	N66	Channel	T
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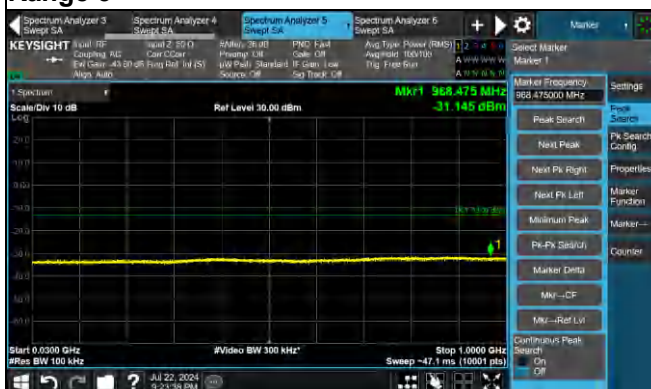
Range 1

Range 2



Range 3

Range 4



Range 5

blank

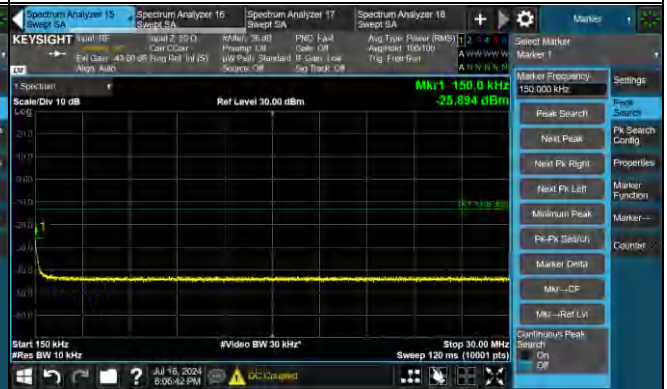


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Modulation	QPSK	Bandwidth	30 MHz	RAT	NR	Band	N66	Channel	B
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Range 1

Range 2



Range 3

Range 4



blank

Range 5

blank



Modulation	QPSK	Bandwidth	30 MHz	RAT	NR	Band	N66	Channel	M
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Range 1

Range 2



blank
blank

Modulation	QPSK	Bandwidth	30 MHz	RAT	NR	Band	N66	Channel	T
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Range 3

Range 4



Range 5

blank



blank

Modulation	QPSK	Bandwidth	20+10 MHz	RAT	LTE+NR	Band	B25+N6	Channel	B+T'
							6		

Range 1

Range 2



Range 3

Range 4



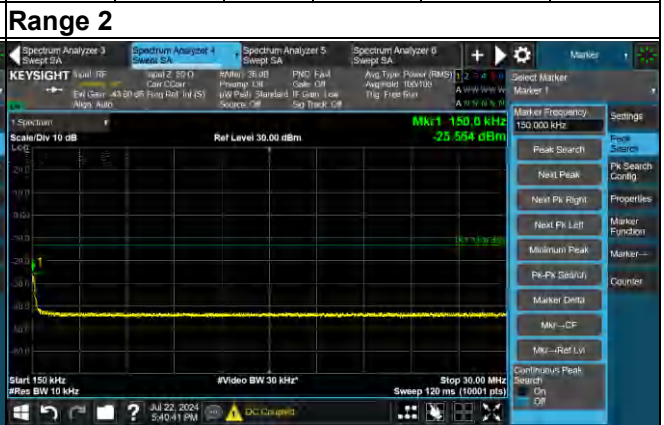
Range 5

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Modulation	QPSK	Bandwidth	20+10 MHz	RAT	LTE+NR	Band	B25+N6 6	Channel	T+B'
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Modulation	QPSK	Bandwidth	20+25 MHz	RAT	LTE+NR	Band	B25+N6 6	Channel	B+B'
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Modulation	QPSK	Bandwidth	20+25 MHz	RAT	LTE+NR	Band	B25+N6	Channel	T+B'
							6		



Range 1	Range 2	Range 3	Range 4
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Range 5

blank



blank

Modulation	QPSK	Bandwidth	20+30 MHz	RAT	LTE+NR	Band	B66+N6	Channel	B+T'
							6		

Range 1

Range 2



Range 3

Range 4



Range 5

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APPENDIX A.6: RECEIVER SPURIOUS EMISSIONS

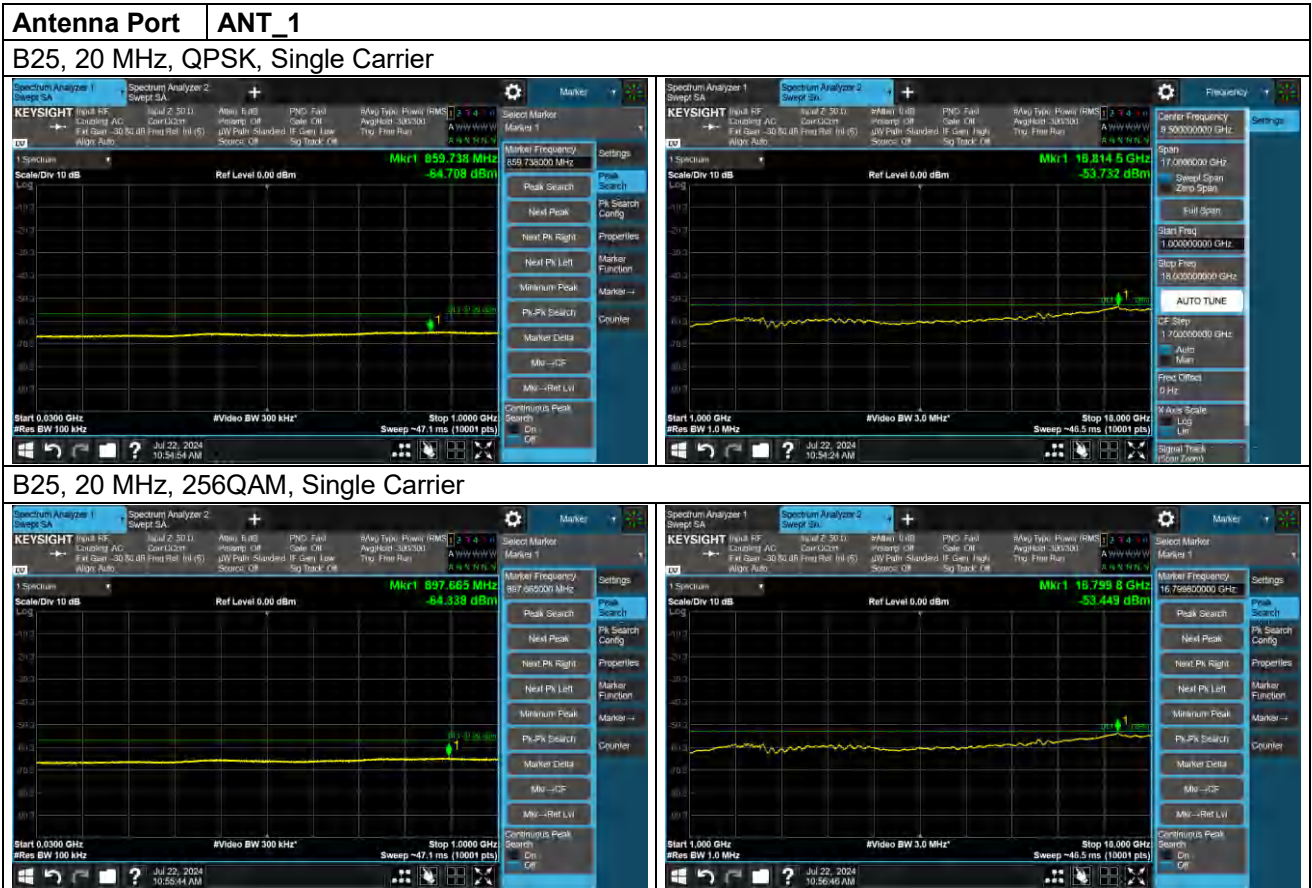
Test Data

Band	CBW (MHz)	Modulation	Channel	Test Frequencies (MHz)	Measured Results (dBm)		Limit (dBm)	Verdict
					Range 1	Range 2		
B25	20	QPSK	M	1962.5	-64.708	-53.732	-57 below 1 GHz -54 above 1 GHz	Pass
B25	20	256QAM	M	1962.5	-64.338	-53.449	-57 below 1 GHz -54 above 1 GHz	Pass

Note:

- The frequency range of Rang 1 is from 30 MHz to 1 GHz, the frequency range of Rang 2 is from 1 GHz to 18 GHz.

Test Plots



===== END OF APPENDIX =====