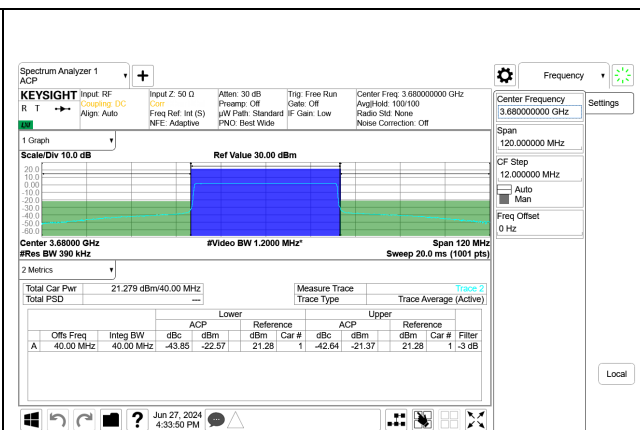
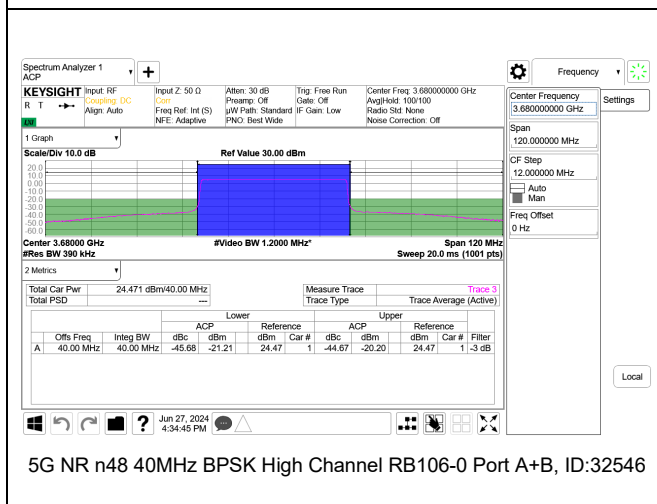


5G NR n48 40MHz BPSK High Channel RB106-0 Port A, ID:32546



5G NR n48 40MHz BPSK High Channel RB106-0 Port B, ID:32546



5G NR n48 40MHz BPSK High Channel RB106-0 Port A+B, ID:32546

Intentionally Blank

9.3. OUT OF BAND EMISSIONS

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

- Set display line at -13 dBm, -25dBm and -40dBm according to the band Limit
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

RESULTS

9.3.1. LTE BAND 48 AND 5G NR n48

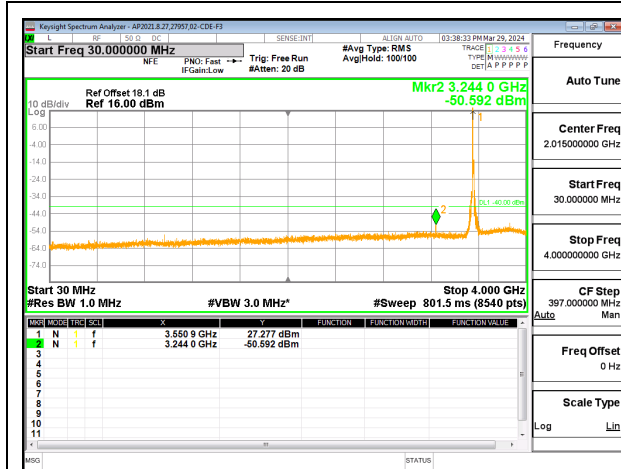
LIMITS

FCC: §96.41

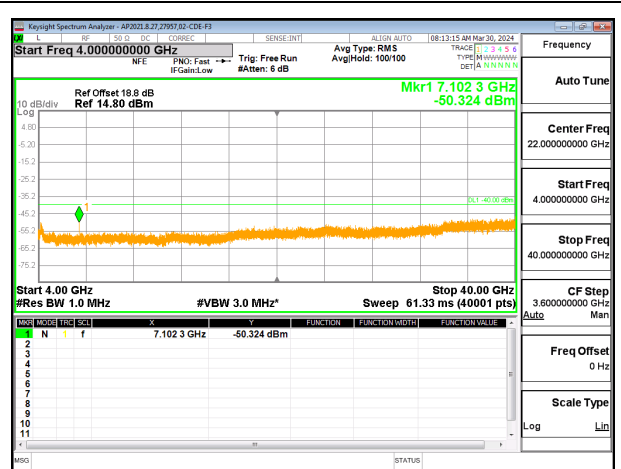
(e) 3.5 GHz Emissions and Interference Limits—

(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

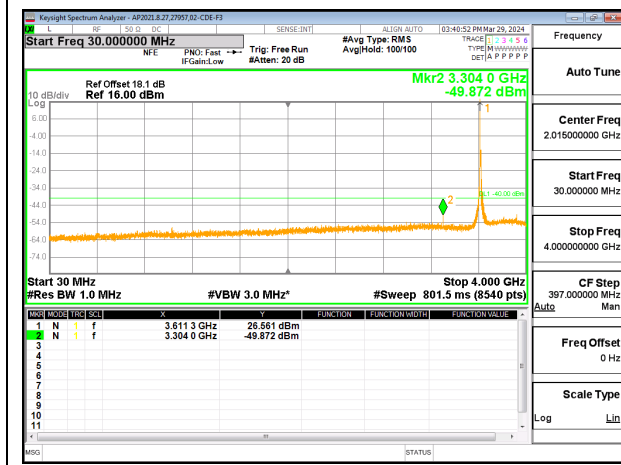
LTE BAND 48



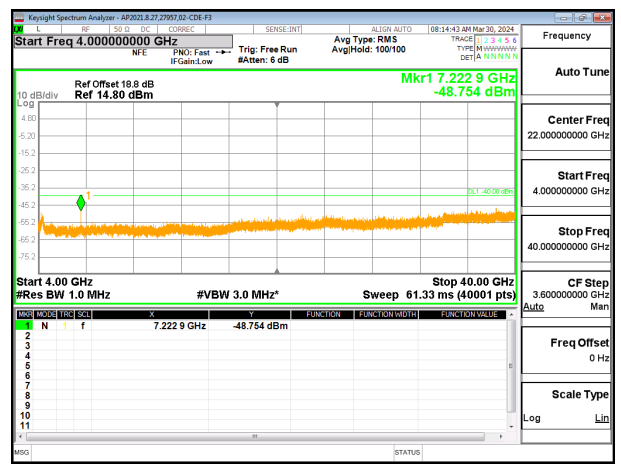
LTE B48 20MHz QPSK Low Channel RB1-0 (30MHz to 4GHz)



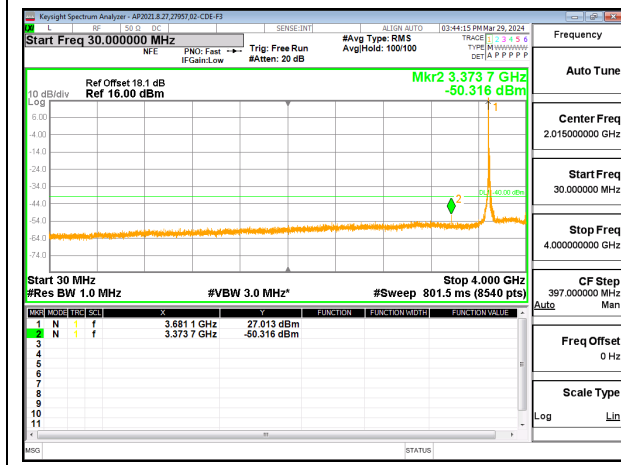
LTE B48 20MHz QPSK Low Channel RB1-0 (4G to 40G)



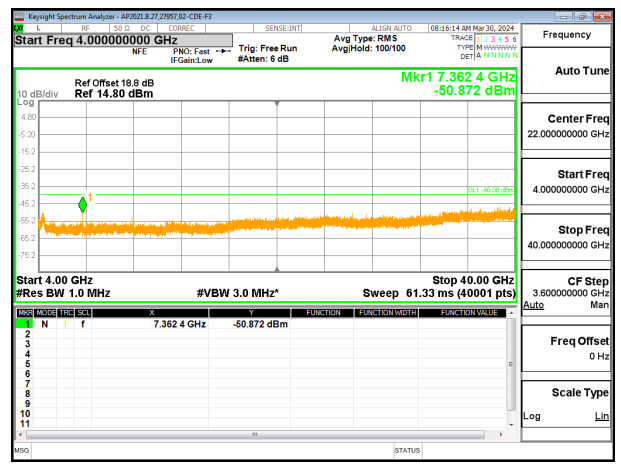
LTE B48 20MHz QPSK Mid Channel RB1-0 (30MHz to 4GHz)



LTE B48 20MHz QPSK Middle Channel RB1-0 (4G to 40G)

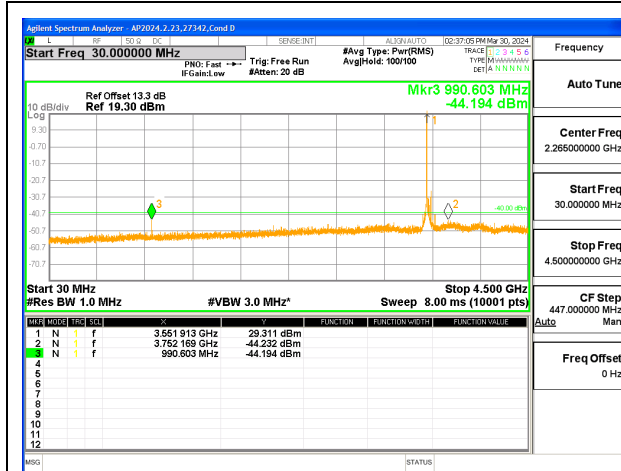


LTE B48 20MHz QPSK High Channel RB1-0 (30MHz to 4GHz)

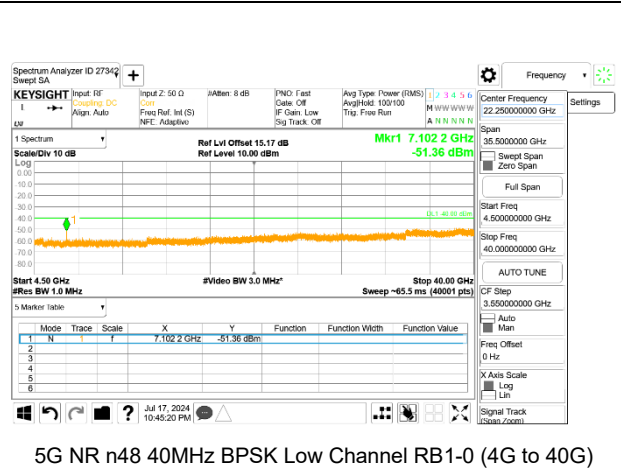


LTE B48 20MHz QPSK High Channel RB1-0 (4G to 40G)

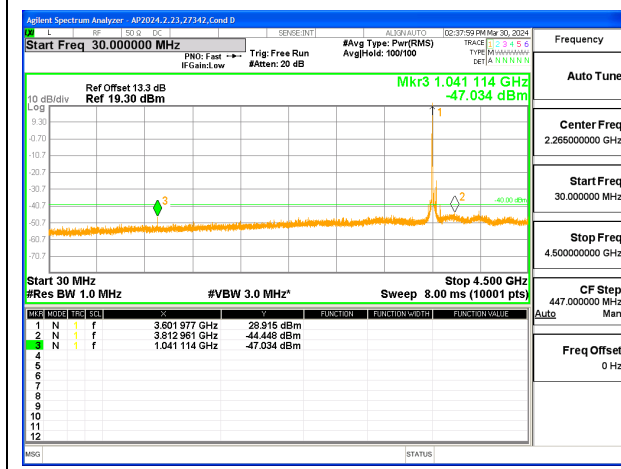
5G NR n48



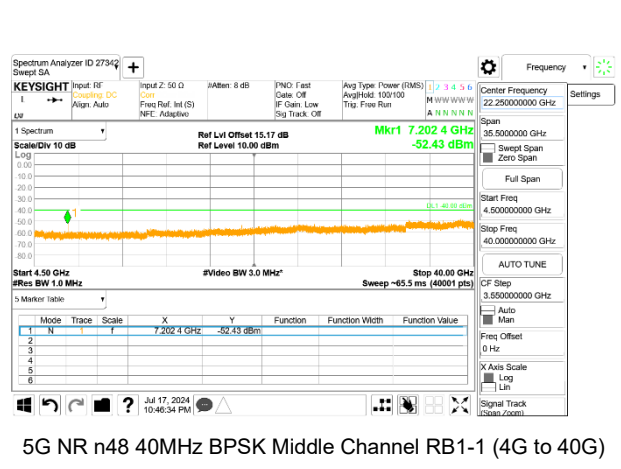
5G NR n48 40MHz BPSK Low Channel RB1-0 (30MHz to 4GHz)



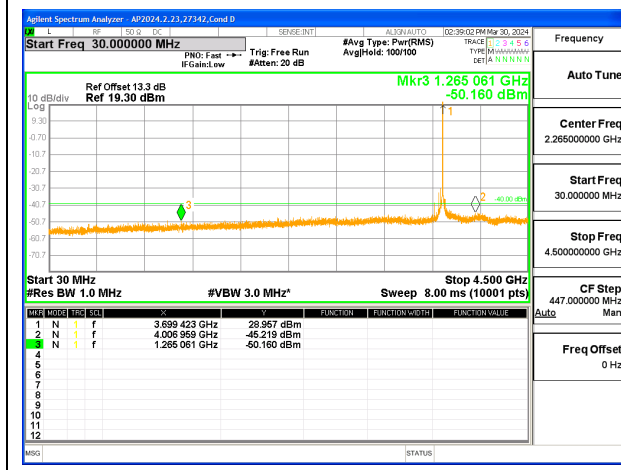
5G NR n48 40MHz BPSK Low Channel RB1-0 (4G to 40G)



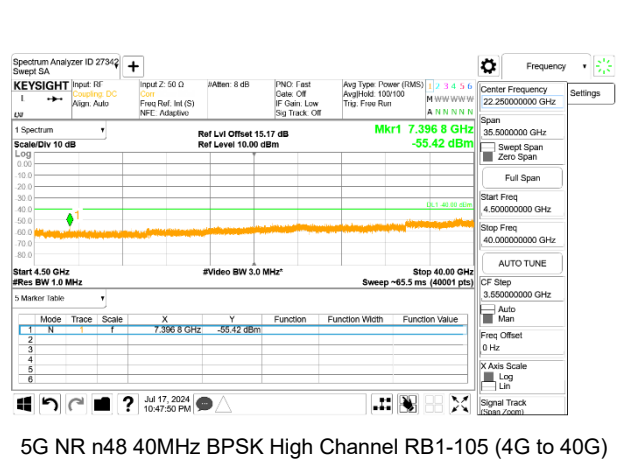
5G NR n48 40MHz BPSK Mid Channel RB1-1 (30MHz to 4GHz)



5G NR n48 40MHz BPSK Middle Channel RB1-1 (4G to 40G)

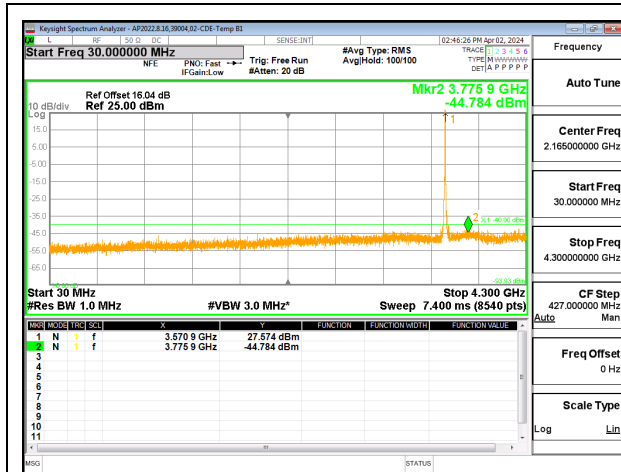


5G NR n48 40MHz BPSK High Channel RB1-105 (30MHz to 4GHz)

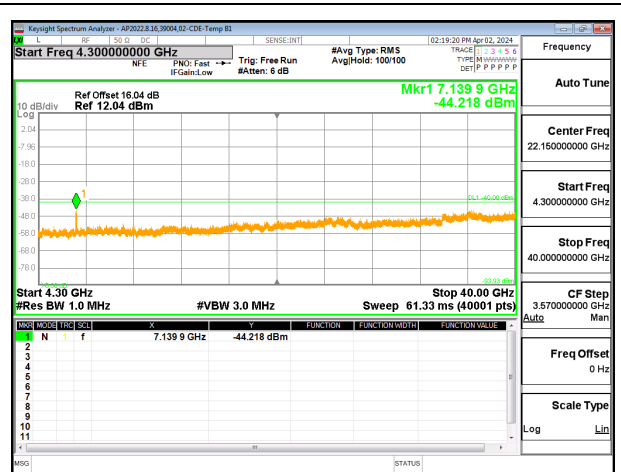


5G NR n48 40MHz BPSK High Channel RB1-105 (4G to 40G)

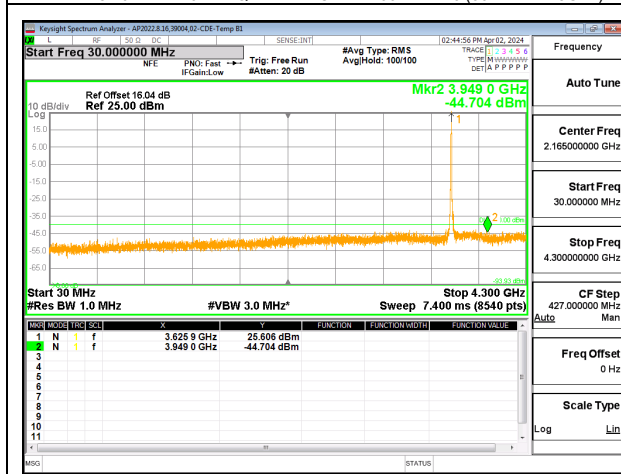
9.3.2. LTE ULCA BAND 48



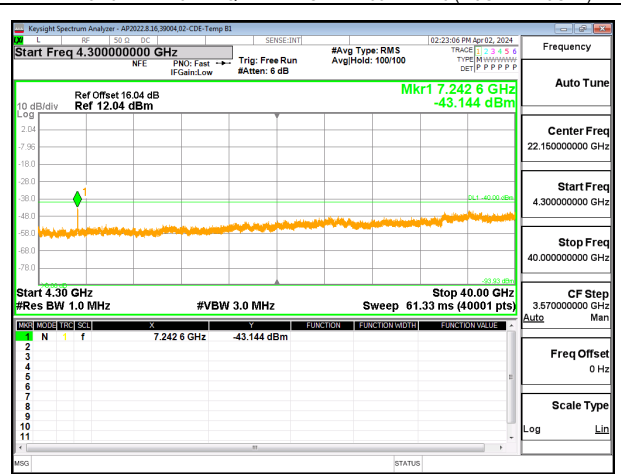
LTE B48 20MHz + 20MHz QPSK Low Ch RB1-99 + RB1-0 (30MHz to 4.3GHz)



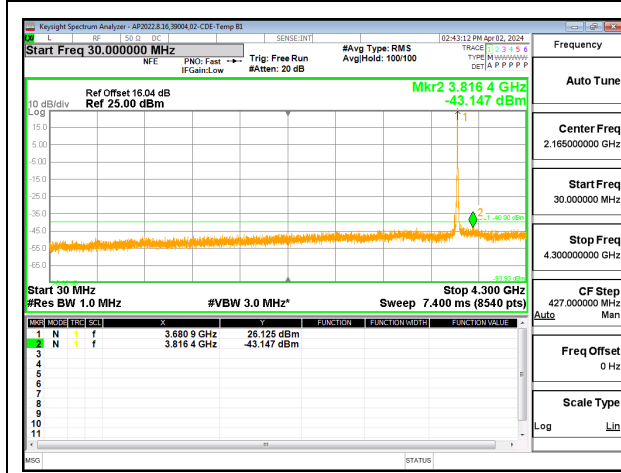
LTE B48 20MHz + 20MHz QPSK Low Ch RB1-99 + RB1-0 (4.3GHz to 40GHz)



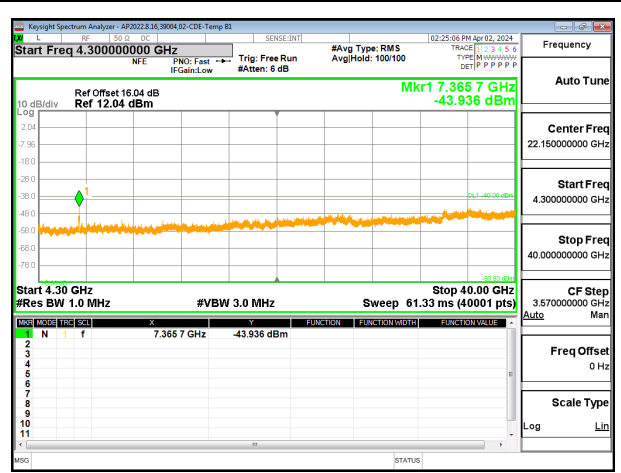
LTE B48 20MHz + 20MHz QPSK Middle Ch RB1-99 + RB1-0 (30MHz to 4.3GHz)



LTE B48 20MHz + 20MHz QPSK Middle Ch RB1-99 + RB1-0 (4.3GHz to 40GHz)



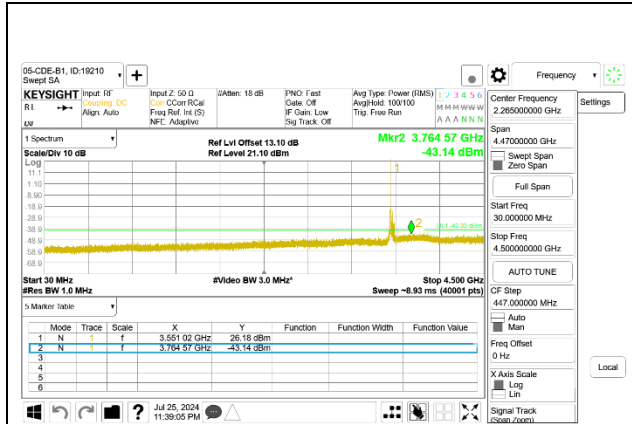
LTE B48 20MHz + 20MHz QPSK High Ch RB1-99 + RB1-0 (30MHz to 4.3GHz)



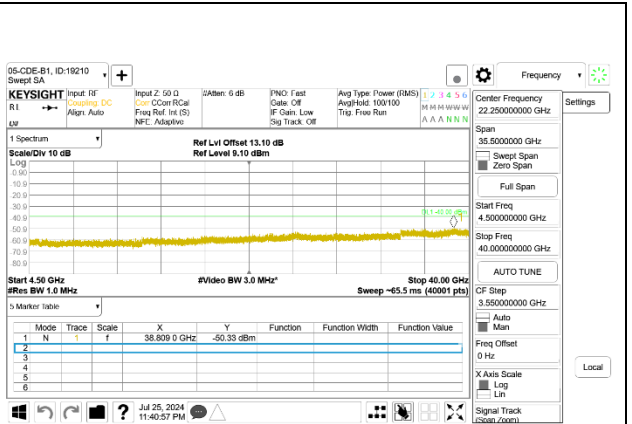
LTE B48 20MHz + 20MHz QPSK High Ch RB1-99 + RB1-0 (4.3GHz to 40GHz)

9.3.3. 5G NR n48 MIMO

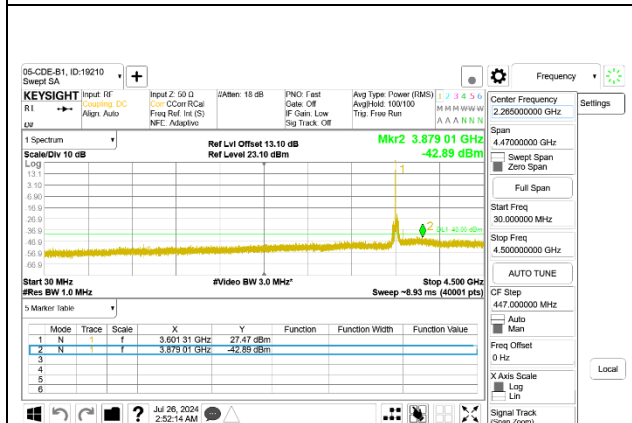
PORT A



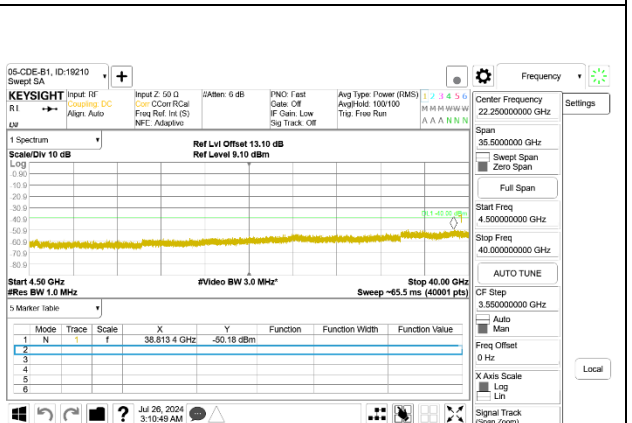
5G NR n48 40MHz QPSK Low Channel RB1-0 (30MHz to 4.5GHz)



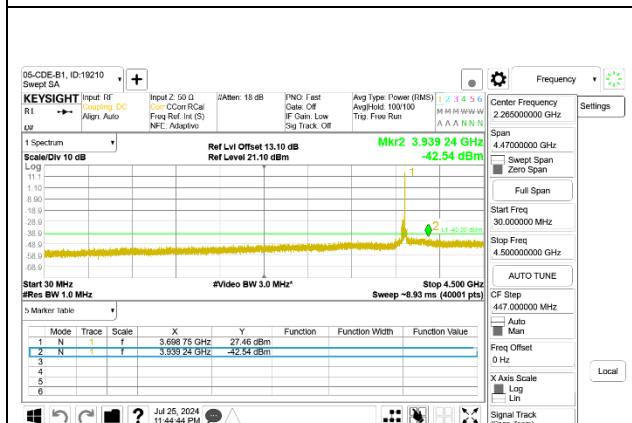
5G NR n48 40MHz QPSK Low Channel RB1-0 (4.5G to 40G)



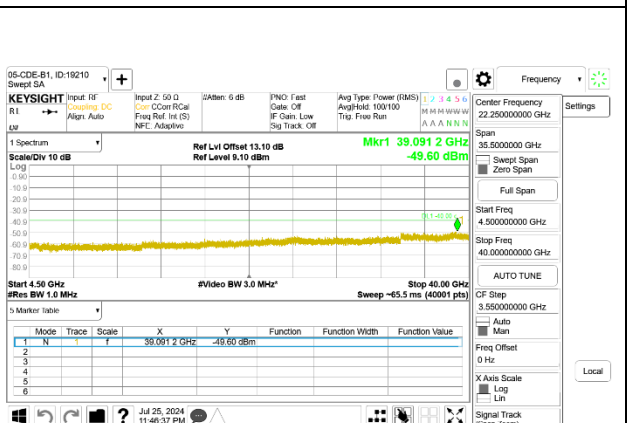
5G NR n48 40MHz QPSK Mid Channel RB1-1 (30MHz to 4.5GHz)



5G NR n48 40MHz QPSK Middle Channel RB1-1 (4.5G to 40G)

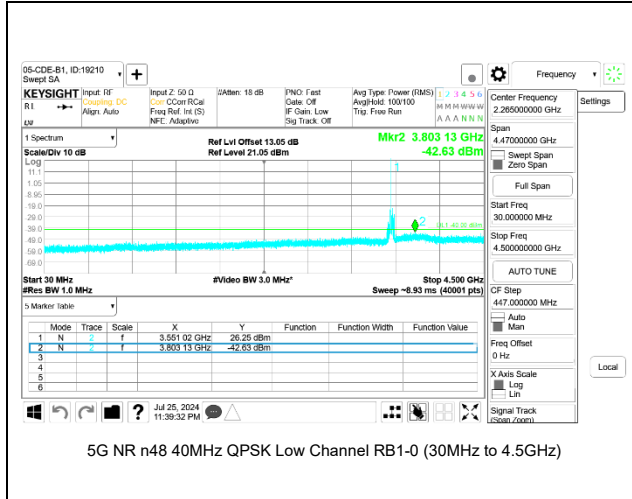


5G NR n48 40MHz QPSK High Channel RB1-105 (30MHz to 4.5GHz)

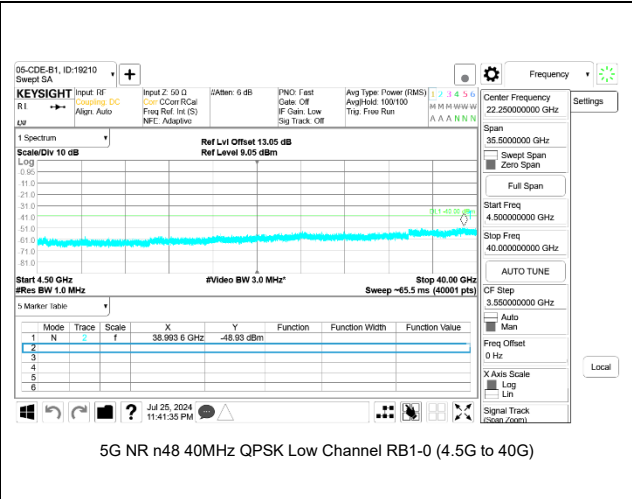


5G NR n48 40MHz QPSK High Channel RB1-105 (4.5G to 40G)

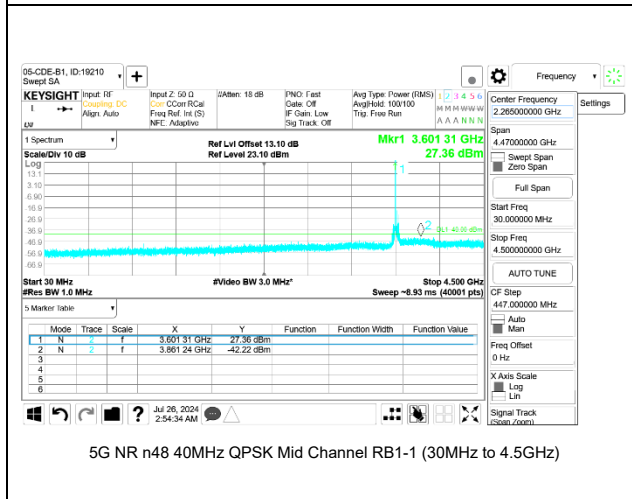
PORT B



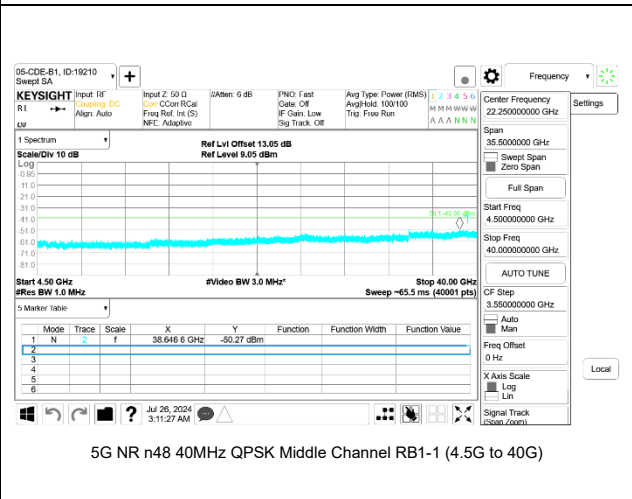
5G NR n48 40MHz QPSK Low Channel RB1-0 (30MHz to 4.5GHz)



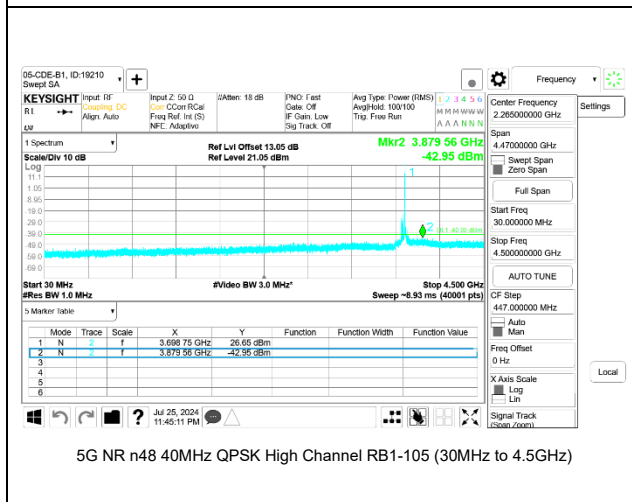
5G NR n48 40MHz QPSK Low Channel RB1-0 (4.5G to 40G)



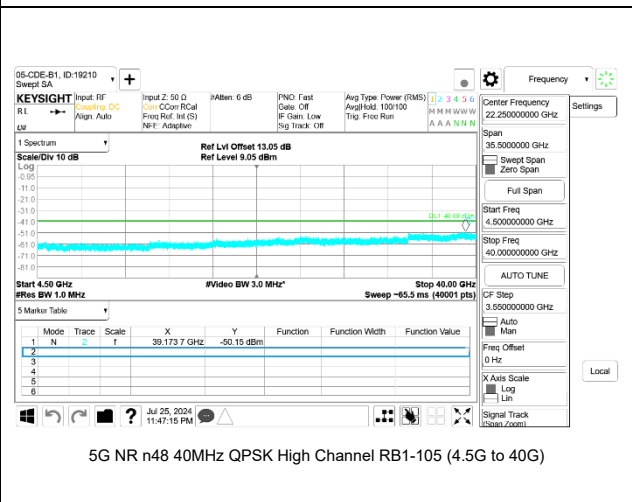
5G NR n48 40MHz QPSK Mid Channel RB1-1 (30MHz to 4.5GHz)



5G NR n48 40MHz QPSK Middle Channel RB1-1 (4.5G to 40G)

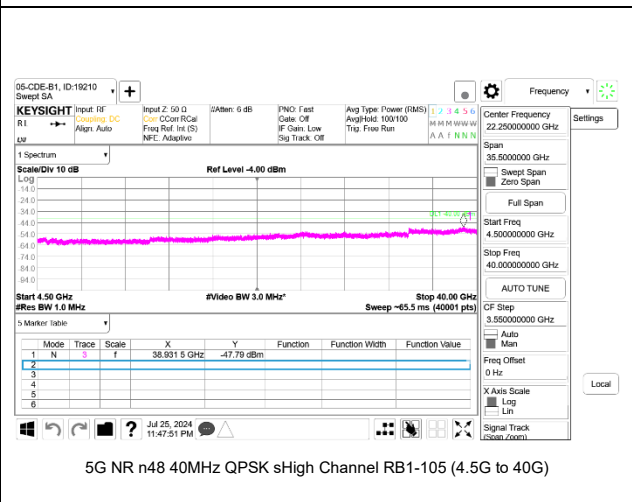
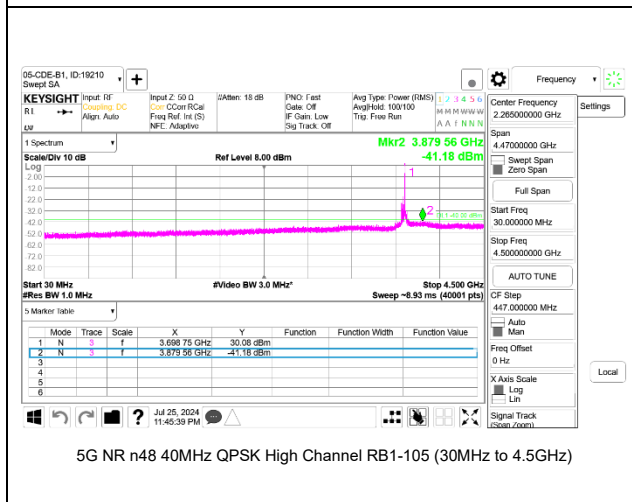
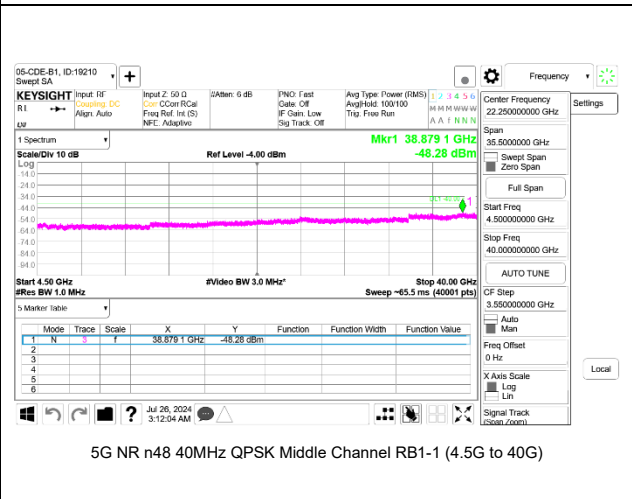
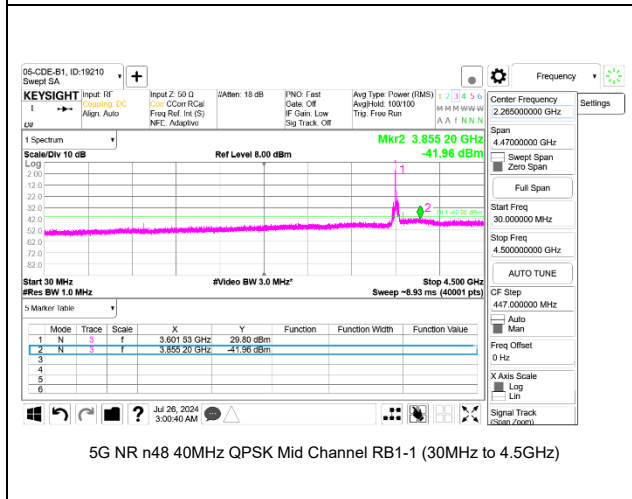
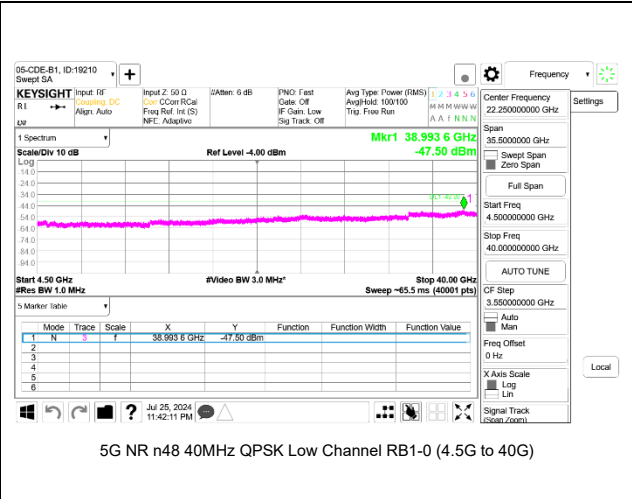
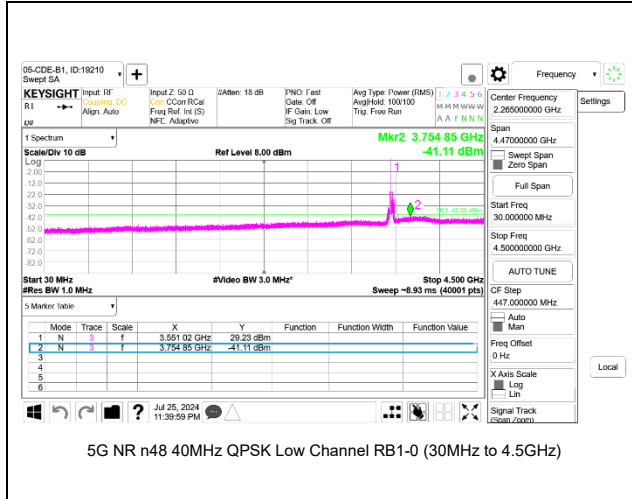


5G NR n48 40MHz QPSK High Channel RB1-105 (30MHz to 4.5GHz)



5G NR n48 40MHz QPSK High Channel RB1-105 (4.5G to 40G)

PORT A+B



9.4. FREQUENCY STABILITY

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- Temp. = -30°C to +50°C
- Voltage = (85% - 115%)

Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.
End Voltage, 3.2VDC.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

RESULTS

See the following pages.

9.4.1. LTE BAND 48 AND 5G NR n48

Test Engineer ID:	39004	Test Date:	4/10/2024
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LTE BAND 48 QPSK (20MHz BANDWIDTH)

Band		48		Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3700	Frequency Error Reading (Hz)	Frequency Stability (ppm)		Within Authorized Frequency Block (Hz)	
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)					
Normal (20°C)	Normal	3551.0248	3699.4798					
Extreme (50°C)		3551.0248	3699.4798	-1.2	0.000	Yes		
Extreme (40°C)		3551.0248	3699.4798	-0.6	0.000	Yes		
Extreme (30°C)		3551.0248	3699.4798	-1.6	0.000	Yes		
Extreme (10°C)		3551.0248	3699.4798	-2.1	-0.001	Yes		
Extreme (0°C)		3551.0248	3699.4798	1.0	0.000	Yes		
Extreme (-10°C)		3551.0248	3699.4798	-0.7	0.000	Yes		
Extreme (-20°C)		3551.0248	3699.4798	-4.1	-0.001	Yes		
Extreme (-30°C)		3551.0248	3699.4798	-5.1	-0.001	Yes		
20°C		15%	3551.0248	3699.4798	-3.2	-0.001	Yes	
	-15%	3551.0248	3699.4798	-2.8	-0.001	Yes		
	End Point Voltage	3551.0248	3699.4798	-3.9	-0.001	Yes		

5G NR n48 BPSK (40MHz BANDWIDTH)

Band		48		Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		3550	3699.98	Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)					
Normal (20°C)	Normal	3550.9718	3696.9090					
Extreme (50°C)		3550.9718	3696.9090	5.32	0.001	Yes		
Extreme (40°C)		3550.9718	3696.9090	5.81	0.002	Yes		
Extreme (30°C)		3550.9718	3696.9090	4.97	0.001	Yes		
Extreme (10°C)		3550.9718	3696.9090	3.21	0.001	Yes		
Extreme (0°C)		3550.9718	3696.9090	2.94	0.001	Yes		
Extreme (-10°C)		3550.9718	3696.9090	4.71	0.001	Yes		
Extreme (-20°C)		3550.9718	3696.9090	3.02	0.001	Yes		
Extreme (-30°C)		3550.9718	3696.9090	3.75	0.001	Yes		
20°C		15%	3550.9718	3696.9090	3.74	0.001	Yes	
	-15%	3550.9718	3696.9090	2.67	0.001	Yes		
	End Point Voltage	3550.9718	3696.9090	5.27	0.001	Yes		

9.4.2. LTE ULCA BAND 48

Test Engineer ID:	39004	Test Date:	4/10/2024
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QPSK (20MHz + 20MHz BANDWIDTH)

Band	48	Frequency Range		Frequency Error Reading (Hz)	Limit	
		3550	3700		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Condition		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)			
Temperature	Voltage					
Normal (20°C)	Normal	3551.0672	3698.9937			
Extreme (50°C)		3551.0672	3698.9937	29.3	0.008	Yes
Extreme (40°C)		3551.0672	3698.9937	30.4	0.008	Yes
Extreme (30°C)		3551.0672	3698.9937	-22.5	-0.006	Yes
Extreme (10°C)		3551.0672	3698.9937	-30.1	-0.008	Yes
Extreme (0°C)		3551.0672	3698.9937	-37.6	-0.010	Yes
Extreme (-10°C)		3551.0672	3698.9937	2.2	0.001	Yes
Extreme (-20°C)		3551.0672	3698.9937	-40.1	-0.011	Yes
Extreme (-30°C)		3551.0672	3698.9937	-40.6	-0.011	Yes
20°C	15%	3551.0672	3698.9937	-22.3	-0.006	Yes
	-15%	3551.0672	3698.9937	-22.5	-0.006	Yes
	End Point Voltage	3551.0672	3698.9937	-31.2	-0.009	Yes

9.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

RESULT

Antenna 1 was used to measure as the worst case; full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

9.5.1. LTE BAND 48 AND 5G NR

Test Engineer ID:	39004	Test Date:	2024-07-19
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Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
Band 48	5MHz	3625.0	25	0	QPSK	32.73	18.95	*6.79
					16QAM	32.78	18.92	*6.87
	10MHz		50	0	QPSK	32.87	18.52	*7.36
					16QAM	32.77	18.11	*7.67
	15MHz		75	0	QPSK	32.96	18.85	*7.12
					16QAM	33.77	18.81	*7.97
20MHz	100	0	QPSK	32.60	17.11	*8.5		
			16QAM	32.44	18.36	*7.09		
5G NR Band n48	10MHz	3625.0	24	0	BPSK	31.29	26.65	4.64
					16QAM	32.74	26.73	6.01
	15MHz		36	0	BPSK	31.45	26.91	4.54
					16QAM	32.78	25.82	6.96
	20MHz		50	0	BPSK	31.31	26.82	4.49
					16QAM	32.86	25.87	6.99
	30MHz		75	0	BPSK	31.62	27.16	4.46
					16QAM	33.30	26.17	7.13
40MHz	100	0	BPSK	29.68	25.61	4.07		
			16QAM	32.88	25.65	7.23		
Duty Cycle Correction Factor (dB) =			6.99					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

9.5.2. LTE ULCA BAND 48

Test Engineer ID:	39004	Test Date:	2024-04-04
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Band	Bandwidth (MHz)	PCC f (MHz)	SCC1 f (MHz)	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
					Peak	Average	
Band 48 (FCC)	5MHz / 20MHz	3615.8	3627.5	QPSK	34.93	19.93	8.01
				16QAM	34.98	18.96	9.03
	20MHz / 5MHz	3622.5	3634.2	QPSK	34.80	19.77	8.04
				16QAM	34.81	18.77	9.05
	10MHz / 20MHz	3615.6	3630.0	QPSK	34.88	19.89	8.00
				16QAM	34.90	18.91	9.00
	20MHz / 10MHz	3620.1	3634.5	QPSK	34.71	19.7	8.02
				16QAM	34.69	18.7	9.00
	15MHz / 20MHz	3615.3	3632.4	QPSK	34.83	19.80	8.04
				16QAM	34.59	18.65	8.95
	20MHz / 15MHz	3617.6	3634.7	QPSK	34.66	19.68	7.99
				16QAM	34.68	18.66	9.03
	20MHz / 20MHz	3615.1	3634.9	QPSK	34.66	15.01	12.66
				16QAM	34.65	18.7	8.96
Duty Cycle Correction Factor (dB) =			6.99				
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor							

10. RADIATED TEST RESULTS

Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, We measure the radiated emissions directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in 5.5.1 of ANSI C63.26-2015, the field strength measurement method using a test site validated to the requirements of ANSI C63.4 is an alternative to the substitution measurement method.

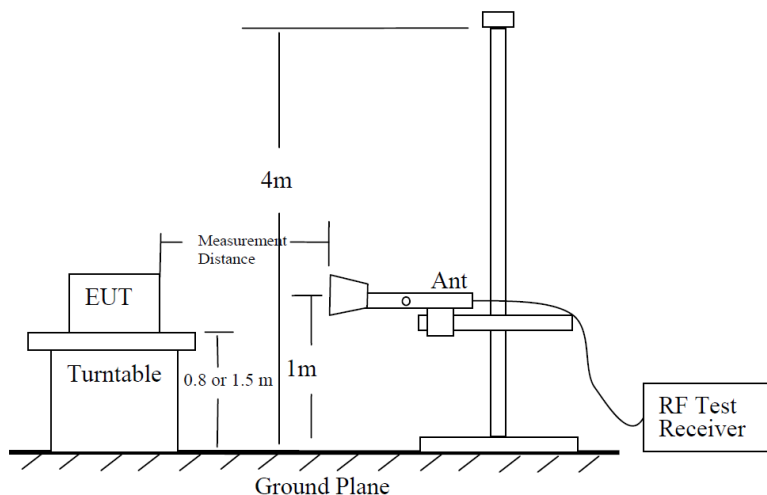


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
- b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
- c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.
- d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

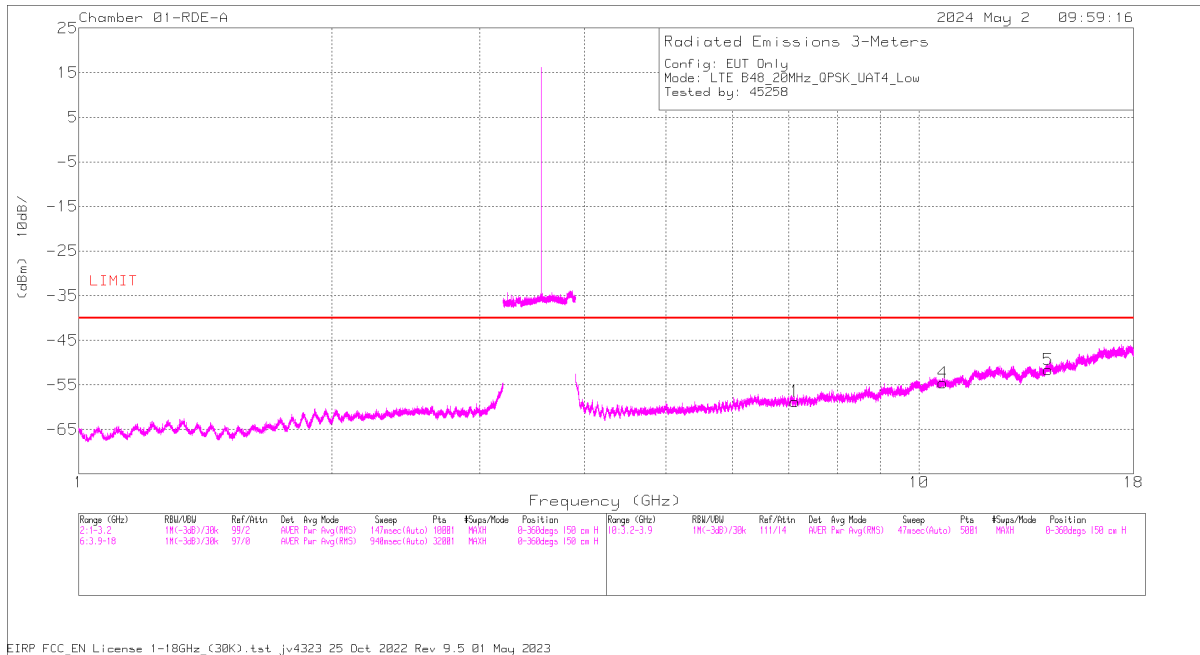
So, from d)

The measuring distance is usually at 3m, then $20\log(3)=9.5424$

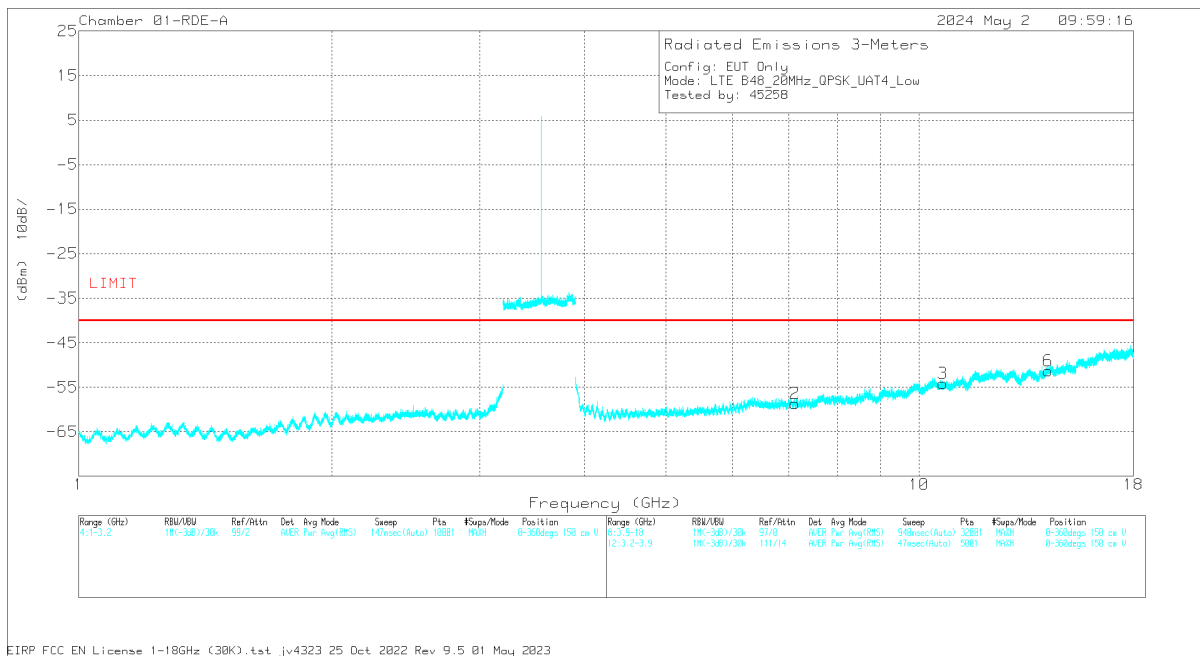
Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

Note: Confidence check of each chamber is performed daily to see if any degradation from expected/normal reading reference data. Ambient check of each chamber is performed monthly.

Example Plot



Horizontal Polarity



Vertical Polarity

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
7.120528	19.20	RMS	35.6	.5	-95.2	-18.80	-58.70	-40	-18.70	H
7.120969	19.22	RMS	35.6	.5	-95.2	-18.80	-58.68	-40	-18.68	V
10.680338	17.12	RMS	37.9	.6	-95.2	-15.00	-54.58	-40	-14.58	H
10.680778	17.52	RMS	37.9	.6	-95.2	-15.00	-54.18	-40	-14.18	V
14.240147	16.87	RMS	39.3	.8	-95.2	-13.40	-51.63	-40	-11.63	H
14.240147	17.22	RMS	39.3	.8	-95.2	-13.40	-51.28	-40	-11.28	V

TEST PROCEDURE

KDB 971168 D01 /D02

All tests above 1GHz were done with a Resolution Bandwidth of 1MHz, and a Video Bandwidth of 3MHz.

LIMITS

FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

(2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz .

RESULTS

10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 4

10.1.1. LTE BAND 48 AND 5G NR n48

QPSK LTE BAND 48 (20.0MHZ BANDWIDTH)

Project #:	14982479
Date:	05/02/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	LTE B48_20MHz_QPSK
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz										
7.120528	19.20	RMS	35.6	.5	-95.2	-18.80	-58.70	-40	-18.70	H
7.120969	19.22	RMS	35.6	.5	-95.2	-18.80	-58.68	-40	-18.68	V
10.680338	17.12	RMS	37.9	.6	-95.2	-15.00	-54.58	-40	-14.58	H
10.680778	17.52	RMS	37.9	.6	-95.2	-15.00	-54.18	-40	-14.18	V
14.240147	16.87	RMS	39.3	.8	-95.2	-13.40	-51.63	-40	-11.63	H
14.240147	17.22	RMS	39.3	.8	-95.2	-13.40	-51.28	-40	-11.28	V
Mid Channel, 3620MHz										
7.250513	18.67	RMS	35.6	.6	-95.2	-18.30	-58.63	-40	-18.63	H
7.250513	18.09	RMS	35.6	.6	-95.2	-18.30	-59.21	-40	-19.21	V
10.875094	16.38	RMS	37.9	.5	-95.2	-14.70	-55.12	-40	-15.12	H
10.875094	15.99	RMS	37.9	.5	-95.2	-14.70	-55.51	-40	-15.51	V
14.500116	16.85	RMS	39.7	.8	-95.2	-14.00	-51.85	-40	-11.85	H
14.500556	17.6	RMS	39.7	.8	-95.2	-14.00	-51.10	-40	-11.10	V
High Channel, 3690MHz										
7.380938	18.19	RMS	35.6	.7	-95.2	-18.40	-59.11	-40	-19.11	H
7.380938	18.87	RMS	35.6	.7	-95.2	-18.40	-58.43	-40	-18.43	V
11.071172	17.05	RMS	37.8	.6	-95.2	-14.57	-54.32	-40	-14.32	H
11.071172	17.86	RMS	37.8	.6	-95.2	-14.57	-53.51	-40	-13.51	V
14.760966	16.03	RMS	40.0	.8	-95.2	-13.10	-51.47	-40	-11.47	H
14.760966	16.44	RMS	40.0	.8	-95.2	-13.10	-51.06	-40	-11.06	V

BPSK 5G NR n48 (40.0MHZ BANDWIDTH)

Project #:	14982479
Date:	04/24/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	5G NR n48 40MHz BPSK
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.042097	29.49	Pk	35.6	.8	-95.2	-27.21	-56.52	-40	-16.52	H
7.003322	29.48	Pk	35.6	.4	-95.2	-27.40	-57.12	-40	-17.12	V
10.726603	28.07	Pk	37.7	.6	-95.2	-24.26	-53.09	-40	-13.09	H
10.716909	28.84	Pk	37.6	.5	-95.2	-24.19	-52.45	-40	-12.45	V
14.267025	25.77	Pk	39	.8	-95.2	-20.10	-49.73	-40	-9.73	H
14.229572	25.69	Pk	39	.8	-95.2	-20.10	-49.81	-40	-9.81	V
Mid Channel, 3620MHz										
7.254919	29.31	Pk	35.6	.6	-95.2	-26.80	-56.49	-40	-16.49	H
7.268578	29.15	Pk	35.5	.6	-95.2	-26.60	-56.55	-40	-16.55	V
10.880381	28.57	Pk	37.7	.5	-95.2	-24.06	-52.49	-40	-12.49	H
10.839403	28.32	Pk	37.7	.6	-95.2	-24.10	-52.68	-40	-12.68	V
14.498353	25.43	Pk	39.2	.8	-95.2	-19.86	-49.63	-40	-9.63	H
14.452969	24.73	Pk	39.2	.8	-95.2	-19.80	-50.27	-40	-10.27	V
High Channel, 3680MHz										
7.350094	29.36	Pk	35.5	.6	-95.2	-26.91	-56.65	-40	-16.65	H
7.340841	29.34	Pk	35.5	.6	-95.2	-26.92	-56.68	-40	-16.68	V
11.039447	26.87	Pk	37.8	.6	-95.2	-23.50	-53.43	-40	-13.43	H
11.026669	27.14	Pk	37.8	.6	-95.2	-23.50	-53.16	-40	-13.16	V
14.724834	25.14	Pk	39.4	.9	-95.2	-19.90	-49.66	-40	-9.66	H
14.701041	24.78	Pk	39.4	.9	-95.2	-19.70	-49.82	-40	-9.82	V

10.1.2. QPSK LTE ULCA BAND 48 (20.0MHZ + 20.0MHZ BANDWIDTH)

Project #:	14982479
Date:	04/24/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	LTE ULCA_B48_20M+20MHz_QPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz										
7.139916	18.70	RMS	35.6	.6	-95.2	-18.60	-58.90	-40	-18.90	H
7.140356	18.95	RMS	35.6	.6	-95.2	-18.60	-58.65	-40	-18.65	V
10.7103	16.3	RMS	37.9	.5	-95.2	-15.00	-55.50	-40	-15.50	H
10.7103	16.82	RMS	37.9	.5	-95.2	-15.00	-54.98	-40	-14.98	V
14.280244	17.68	RMS	39.4	.7	-95.2	-13.65	-51.07	-40	-11.07	H
14.280244	16.82	RMS	39.4	.7	-95.2	-13.65	-51.93	-40	-11.93	V
Mid Channel, 3615.1MHz + 3634.9MHz										
7.250072	18.21	RMS	35.6	.6	-95.2	-18.30	-59.09	-40	-19.09	H
7.250072	18.81	RMS	35.6	.6	-95.2	-18.30	-58.49	-40	-18.49	V
10.875094	16.55	RMS	37.9	.5	-95.2	-14.70	-54.95	-40	-14.95	H
10.875094	16.18	RMS	37.9	.5	-95.2	-14.70	-55.32	-40	-15.32	V
14.500116	16.46	RMS	39.7	.8	-95.2	-14.00	-52.24	-40	-12.24	H
14.500116	16.77	RMS	39.7	.8	-95.2	-14.00	-51.93	-40	-11.93	V
High Channel, 3670.2MHz + 3690MHz										
7.360228	18.62	RMS	35.6	.7	-95.2	-18.20	-58.48	-40	-18.48	H
7.360228	18.51	RMS	35.6	.7	-95.2	-18.20	-58.59	-40	-18.59	V
11.040769	16.24	RMS	37.9	.6	-95.2	-14.32	-54.78	-40	-14.78	H
11.040769	16.92	RMS	37.9	.6	-95.2	-14.32	-54.10	-40	-14.10	V
14.720869	15.95	RMS	40	.9	-95.2	-13.50	-51.85	-40	-11.85	H
14.720869	16.54	RMS	40	.9	-95.2	-13.50	-51.26	-40	-11.26	V

10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 7

10.1.1. LTE BAND 48 AND 5G NR n48

QPSK LTE BAND 48 (20.0MHZ BANDWIDTH)

Project #:	14982479
Date:	04/11/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	LTE B48_20MHz_QPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz										
7.120528	18.45	RMS	35.6	.5	-95.2	-18.80	-59.45	-40	-19.45	H
7.120528	18.86	RMS	35.6	.5	-95.2	-18.80	-59.04	-40	-19.04	V
10.680778	16.73	RMS	37.9	.6	-95.2	-15.00	-54.97	-40	-14.97	H
10.680778	16.93	RMS	37.9	.6	-95.2	-15.00	-54.77	-40	-14.77	V
14.240147	16.80	RMS	39.3	.8	-95.2	-13.40	-51.70	-40	-11.70	H
14.240147	16.86	RMS	39.3	.8	-95.2	-13.40	-51.64	-40	-11.64	V
Mid Channel, 3620MHz										
7.250072	17.60	RMS	35.6	.6	-95.2	-18.30	-59.70	-40	-19.70	H
7.250072	18.25	RMS	35.6	.6	-95.2	-18.30	-59.05	-40	-19.05	V
10.875534	15.60	RMS	37.9	.5	-95.2	-14.70	-55.90	-40	-15.90	H
10.875534	16.14	RMS	37.9	.5	-95.2	-14.70	-55.36	-40	-15.36	V
14.499675	17.04	RMS	39.7	.8	-95.2	-14.00	-51.66	-40	-11.66	H
14.499675	16.31	RMS	39.7	.8	-95.2	-14.00	-52.39	-40	-12.39	V
High Channel, 3690MHz										
7.380497	18.05	RMS	35.6	.7	-95.2	-18.40	-59.25	-40	-19.25	H
7.380497	17.46	RMS	35.6	.7	-95.2	-18.40	-59.84	-40	-19.84	V
11.071613	16.66	RMS	37.8	.6	-95.2	-14.48	-54.62	-40	-14.62	H
11.071613	16.61	RMS	37.8	.6	-95.2	-14.48	-54.67	-40	-14.67	V
14.760525	15.73	RMS	40	.8	-95.2	-13.10	-51.77	-40	-11.77	H
14.760525	16.34	RMS	40	.8	-95.2	-13.10	-51.16	-40	-11.16	V

BPSK 5G NR n48 (40.0MHZ BANDWIDTH)

Project #:	14982479
Date:	06/30/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	5G NR n48 40MHz BPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400-3800MHz BRf (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.140356	19.36	RMS	35.6	.6	-95.2	-18.60	-58.24	-40	-18.24	H
7.140356	18.58	RMS	35.6	.6	-95.2	-18.60	-59.02	-40	-19.02	V
10.710741	17.74	RMS	37.9	.5	-95.2	-15.00	-54.06	-40	-14.06	H
10.710741	17.45	RMS	37.9	.5	-95.2	-15.00	-54.35	-40	-14.35	V
14.280244	17.26	RMS	39.4	.7	-95.2	-13.65	-51.49	-40	-11.49	H
14.280244	17.61	RMS	39.4	.7	-95.2	-13.65	-51.14	-40	-11.14	V
Mid Channel, 3620.01MHz										
7.250513	18.02	RMS	35.6	.6	-95.2	-18.30	-59.28	-40	-19.28	H
7.250513	17.99	RMS	35.6	.6	-95.2	-18.30	-59.31	-40	-19.31	V
10.875975	16.57	RMS	37.9	.5	-95.2	-14.70	-54.93	-40	-14.93	H
10.875975	16.93	RMS	37.9	.5	-95.2	-14.70	-54.57	-40	-14.57	V
14.500997	17.60	RMS	39.7	.8	-95.2	-14.00	-51.10	-40	-11.10	H
14.500997	17.68	RMS	39.7	.8	-95.2	-14.00	-51.02	-40	-11.02	V
High Channel, 3679.98MHz										
7.360228	18.76	RMS	35.6	.7	-95.2	-18.20	-58.34	-40	-18.34	H
7.360228	18.20	RMS	35.6	.7	-95.2	-18.20	-58.90	-40	-18.90	V
11.040328	17.47	RMS	37.9	.6	-95.2	-14.37	-53.6	-40	-13.6	H
11.040328	17.16	RMS	37.9	.6	-95.2	-14.37	-53.91	-40	-13.91	V
14.720428	16.55	RMS	40	.9	-95.2	-13.50	-51.25	-40	-11.25	H
14.720428	16.08	RMS	40	.9	-95.2	-13.50	-51.72	-40	-11.72	V

10.1.2. QPSK LTE ULCA BAND 48 (20.0MHZ + 20.0MHZ BANDWIDTH)

Project #:	14982479
Date:	4/24/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	LTE ULCA_B48_20M+20MMHz_QPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz										
7.140356	19.20	RMS	35.6	.6	-95.2	-18.60	-58.40	-40	-18.40	H
7.140356	18.96	RMS	35.6	.6	-95.2	-18.60	-58.64	-40	-18.64	V
10.708978	16.56	RMS	37.9	.5	-95.2	-15.00	-55.24	-40	-15.24	H
10.653933	20.19	RMS	37.9	.6	-95.2	-14.90	-51.41	-40	-11.41	V
14.281125	16.43	RMS	39.4	.7	-95.2	-13.51	-52.18	-40	-12.18	H
14.280684	17.13	RMS	39.4	.7	-95.2	-13.56	-51.53	-40	-11.53	V
Mid Channel, 3615.1MHz + 3634.9MHz										
7.250072	18.08	RMS	35.6	.6	-95.2	-18.30	-59.22	-40	-19.22	H
7.250072	18.80	RMS	35.6	.6	-95.2	-18.30	-58.50	-40	-18.50	V
10.875534	16.02	RMS	37.9	.5	-95.2	-14.70	-55.48	-40	-15.48	H
10.875534	16.40	RMS	37.9	.5	-95.2	-14.70	-55.10	-40	-15.10	V
14.500556	17.45	RMS	39.7	.8	-95.2	-14.00	-51.25	-40	-11.25	H
14.500556	16.92	RMS	39.7	.8	-95.2	-14.00	-51.78	-40	-11.78	V
High Channel, 3670.2MHz + 3690MHz										
7.360228	18.77	RMS	35.6	.7	-95.2	-18.20	-58.33	-40	-18.33	H
7.360228	18.01	RMS	35.6	.7	-95.2	-18.20	-59.09	-40	-19.09	V
11.040328	16.77	RMS	37.9	.6	-95.2	-14.37	-54.30	-40	-14.30	H
11.040328	16.25	RMS	37.9	.6	-95.2	-14.37	-54.82	-40	-14.82	V
14.719988	17.24	RMS	40.0	.9	-95.2	-13.50	-50.56	-40	-10.56	H
14.719988	15.75	RMS	40.0	.9	-95.2	-13.50	-52.05	-40	-12.05	V

10.2. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 8

10.2.1. LTE BAND 48 AND 5G NR n48

QPSK LTE BAND 48 (20.0MHZ BANDWIDTH)

Project #:	14982479
Date:	04/11/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	LTE B48_20MHz_QPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400-3800MHz BRf	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz										
7.120528	18.27	RMS	35.6	.5	-95.2	-18.80	-59.63	-40	-19.63	H
7.120969	18.60	RMS	35.6	.5	-95.2	-18.80	-59.30	-40	-19.30	V
10.680778	17.15	RMS	37.9	.6	-95.2	-15.00	-54.55	-40	-14.55	H
10.680778	16.63	RMS	37.9	.6	-95.2	-15.00	-55.07	-40	-15.07	V
14.240588	16.58	RMS	39.3	.8	-95.2	-13.40	-51.92	-40	-11.92	H
14.240588	17.20	RMS	39.3	.8	-95.2	-13.40	-51.30	-40	-11.30	V
Mid Channel, 3625MHz										
7.250513	17.68	RMS	35.6	.6	-95.2	-18.30	-59.62	-40	-19.62	H
7.250513	18.59	RMS	35.6	.6	-95.2	-18.30	-58.71	-40	-18.71	V
10.875534	16.38	RMS	37.9	.5	-95.2	-14.70	-55.12	-40	-15.12	H
10.875534	16.30	RMS	37.9	.5	-95.2	-14.70	-55.2	-40	-15.20	V
14.500556	17.28	RMS	39.7	.8	-95.2	-14.00	-51.42	-40	-11.42	H
14.500556	16.99	RMS	39.7	.8	-95.2	-14.00	-51.71	-40	-11.71	V
High Channel, 3690MHz										
7.380938	17.80	RMS	35.6	.7	-95.2	-18.40	-59.50	-40	-19.50	H
7.380938	18.94	RMS	35.6	.7	-95.2	-18.40	-58.36	-40	-18.36	V
11.06985	16.56	RMS	37.8	.6	-95.2	-14.50	-54.74	-40	-14.74	H
11.06985	17.19	RMS	37.8	.6	-95.2	-14.50	-54.11	-40	-14.11	V
14.760525	15.94	RMS	40.0	.8	-95.2	-13.10	-51.56	-40	-11.56	H
14.760525	16.40	RMS	40.0	.8	-95.2	-13.10	-51.1	-40	-11.10	V

BPSK 5G NR n48 (40.0MHZ BANDWIDTH)

Project #:	14982479
Date:	05/09/2024
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n48 40MHz BPSK
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	T1792 3400-3800MHz BRf (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.141238	23.74	RMS	35.6	.6	-95.2	-27.20	-62.46	-40	-22.46	H
7.114800	24.11	RMS	35.6	.5	-95.2	-27.10	-62.09	-40	-22.09	V
10.713825	22.67	RMS	37.6	.5	-95.2	-24.10	-58.53	-40	-18.53	H
10.665356	22.76	RMS	37.6	.6	-95.2	-24.56	-58.80	-40	-18.80	V
14.280684	20.49	RMS	39.0	.7	-95.2	-20.39	-55.40	-40	-15.40	H
14.230453	20.5	RMS	39.0	.8	-95.2	-20.10	-55.00	-40	-15.00	V
Mid Channel, 3620.01MHz										
7.258444	28.84	Pk	35.6	.6	-95.2	-26.86	-57.02	-40	-17.02	H
7.229803	29.88	Pk	35.6	.5	-95.2	-26.90	-56.12	-40	-16.12	V
10.887431	27.86	Pk	37.7	.5	-95.2	-24.06	-53.20	-40	-13.20	H
10.857028	27.66	Pk	37.7	.5	-95.2	-24.19	-53.53	-40	-13.53	V
14.507606	25.03	Pk	39.2	.8	-95.2	-19.8	-49.97	-40	-9.97	H
14.514656	24.29	Pk	39.2	.8	-95.2	-19.770	-50.68	-40	-10.68	V
High Channel, 3679.98MHz										
7.355381	23.57	RMS	35.5	.7	-95.2	-26.94	-62.37	-40	-22.37	H
7.335553	23.77	RMS	35.5	.5	-95.2	-26.90	-62.33	-40	-22.33	V
11.021381	22.25	RMS	37.8	.6	-95.2	-23.50	-58.05	-40	-18.05	H
11.002875	22.23	RMS	37.8	.7	-95.2	-23.49	-57.96	-40	-17.96	V
14.725275	19.66	RMS	39.4	.9	-95.2	-19.93	-55.17	-40	-15.17	H
14.757000	19.64	RMS	39.4	.8	-95.2	-19.60	-54.96	-40	-14.96	V

10.2.2. QPSK LTECA BAND 48 (20.0MHZ + 20.0MHZ BANDWIDTH)

Project #:	14982479
Date:	04/23/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	LTE ULCA_B48_20M+20MMHz_QPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF 3m (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz										
7.140356	18.71	RMS	35.6	.6	-95.2	-18.60	-58.89	-40	-18.89	H
7.140356	18.22	RMS	35.6	.6	-95.2	-18.60	-59.38	-40	-19.38	V
10.710741	16.63	RMS	37.9	.5	-95.2	-15.00	-55.17	-40	-15.17	H
10.710741	16.71	RMS	37.9	.5	-95.2	-15.00	-55.09	-40	-15.09	V
14.280244	16.89	RMS	39.4	.7	-95.2	-13.65	-51.86	-40	-11.86	H
14.280244	16.5	RMS	39.4	.7	-95.2	-13.65	-52.25	-40	-12.25	V
Mid Channel, 3615.1MHz + 3634.9MHz										
7.250953	18.53	RMS	35.6	.6	-95.2	-18.30	-58.77	-40	-18.77	H
7.250953	18.83	RMS	35.6	.6	-95.2	-18.30	-58.47	-40	-18.47	V
10.875094	17.02	RMS	37.9	.5	-95.2	-14.70	-54.48	-40	-14.48	H
10.875094	15.96	RMS	37.9	.5	-95.2	-14.70	-55.54	-40	-15.54	V
14.499675	16.83	RMS	39.7	.8	-95.2	-14.00	-51.87	-40	-11.87	H
14.500116	17.26	RMS	39.7	.8	-95.2	-14.00	-51.44	-40	-11.44	V
High Channel, 3670.2MHz + 3690MHz										
7.359788	19.07	RMS	35.6	.7	-95.2	-18.20	-58.03	-40	-18.03	H
7.360228	18.89	RMS	35.6	.7	-95.2	-18.20	-58.21	-40	-18.21	V
11.040769	17.03	RMS	37.9	.6	-95.2	-14.32	-53.99	-40	-13.99	H
11.040769	16.38	RMS	37.9	.6	-95.2	-14.32	-54.64	-40	-14.64	V
14.720428	16.46	RMS	40.0	.9	-95.2	-13.50	-51.34	-40	-11.34	H
14.720428	16.31	RMS	40.0	.9	-95.2	-13.50	-51.49	-40	-11.49	V

10.3. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 9

10.3.1. LTE BAND 48 AND 5G NR n48

QPSK LTE BAND 48 (20.0MHZ BANDWIDTH)

Project #:	14982479
Date:	04/26/2024
Test Engineer:	31300
Configuration:	EUT Only
Mode	LTE B48_20MHz_QPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400-3800MHz BRf	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz										
7.120969	19.60	RMS	35.6	.5	-95.2	-18.80	-58.30	-40	-18.30	H
7.120969	19.29	RMS	35.6	.5	-95.2	-18.80	-58.61	-40	-18.61	V
10.681659	17.26	RMS	37.9	.6	-95.2	-15.07	-54.51	-40	-14.51	H
10.681659	16.73	RMS	37.9	.6	-95.2	-15.07	-55.04	-40	-15.04	V
14.241028	16.49	RMS	39.3	.8	-95.2	-13.40	-52.01	-40	-12.01	H
14.241028	16.78	RMS	39.3	.8	-95.2	-13.40	-51.72	-40	-11.72	V
Mid Channel, 3625MHz										
7.250072	18.82	RMS	35.6	.6	-95.2	-18.30	-58.48	-40	-18.48	H
7.250072	18.26	RMS	35.6	.6	-95.2	-18.30	-59.04	-40	-19.04	V
10.874653	17.00	RMS	37.9	.5	-95.2	-14.70	-54.50	-40	-14.50	H
10.874653	17.44	RMS	37.9	.5	-95.2	-14.70	-54.06	-40	-14.06	V
14.500116	16.97	RMS	39.7	.8	-95.2	-14.00	-51.73	-40	-11.73	H
14.499675	18.66	RMS	39.7	.8	-95.2	-14.00	-50.04	-40	-10.04	V
High Channel, 3690MHz										
7.380938	18.33	RMS	35.6	.7	-95.2	-18.40	-58.97	-40	-18.97	H
7.380938	18.72	RMS	35.6	.7	-95.2	-18.40	-58.58	-40	-18.58	V
11.070731	17.07	RMS	37.8	.6	-95.2	-14.57	-54.30	-40	-14.30	H
11.070291	16.99	RMS	37.8	.6	-95.2	-14.53	-54.34	-40	-14.34	V
14.760966	15.88	RMS	40.0	.8	-95.2	-13.10	-51.62	-40	-11.62	H
14.760966	15.46	RMS	40.0	.8	-95.2	-13.10	-52.04	-40	-12.04	V

BPSK 5G NR n48 (40.0MHZ BANDWIDTH)

Project #:	14982479
Date:	05/14/2024
Test Engineer:	32934
Configuration:	EUT Only
Mode	5G NR n48 40MHz BPSK
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	81886 ACF 3m (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.128900	29.40	Pk	35.6	.5	-95.2	-27.19	-56.89	-40	-16.89	H
7.105547	29.39	Pk	35.6	.5	-95.2	-27.10	-56.81	-40	-16.81	V
10.714266	28.18	Pk	37.6	.5	-95.2	-24.10	-53.02	-40	-13.02	H
10.700166	27.72	Pk	37.6	.5	-95.2	-24.22	-53.60	-40	-13.60	V
14.276719	25.24	Pk	39.0	.7	-95.2	-20.40	-50.66	-40	-10.66	H
14.265263	24.87	Pk	39.0	.8	-95.2	-20.27	-50.80	-40	-10.80	V
Mid Channel, 3620.01MHz										
7.241259	29.91	Pk	35.6	.5	-95.2	-26.83	-56.02	-40	-16.02	H
7.224075	29.18	Pk	35.6	.5	-95.2	-26.90	-56.82	-40	-16.82	V
10.891838	27.73	Pk	37.7	.6	-95.2	-24.02	-53.19	-40	-13.19	H
10.874213	28.28	Pk	37.7	.5	-95.2	-24.02	-52.74	-40	-12.74	V
14.490863	25.95	Pk	39.2	.7	-95.2	-19.70	-49.05	-40	-9.05	H
14.469272	24.85	Pk	39.2	.7	-95.2	-19.57	-50.02	-40	-10.02	V
High Channel, 3679.98MHz										
7.349213	29.15	Pk	35.5	.6	-95.2	-26.98	-56.93	-40	-16.93	H
7.313081	29.57	Pk	35.5	.5	-95.2	-26.80	-56.43	-40	-16.43	V
11.038566	27.50	Pk	37.8	.6	-95.2	-23.50	-52.80	-40	-12.80	H
11.014331	27.46	Pk	37.8	.6	-95.2	-23.50	-52.84	-40	-12.84	V
14.72175	25.05	Pk	39.4	.9	-95.2	-19.93	-49.78	-40	-9.78	H
14.696194	24.55	Pk	39.4	.9	-95.2	-19.86	-50.21	-40	-10.21	V

10.3.2. QPSK LTE ULCA BAND 48 (20.0MHZ + 20.0MHZ BANDWIDTH)

Project #:	14982479
Date:	04/23/2024
Test Engineer:	45258
Configuration:	EUT Only
Mode	LTE ULCA_B48_20M+20MMHz_QPSK
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF 3m (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3560MHz + 3579.8MHz										
7.140797	19.30	RMS	35.6	.6	-95.2	-18.60	-58.30	-40	-18.30	H
7.140797	18.66	RMS	35.6	.6	-95.2	-18.60	-58.94	-40	-18.94	V
10.709419	16.79	RMS	37.9	.5	-95.2	-15.00	-55.01	-40	-15.01	H
10.709419	16.97	RMS	37.9	.5	-95.2	-15.00	-54.83	-40	-14.83	V
14.280244	16.92	RMS	39.4	.7	-95.2	-13.65	-51.83	-40	-11.83	H
14.280244	17.40	RMS	39.4	.7	-95.2	-13.65	-51.35	-40	-11.35	V
Mid Channel, 3615.1MHz + 3634.9MHz										
7.250072	18.12	RMS	35.6	.6	-95.2	-18.30	-59.18	-40	-19.18	H
7.250072	17.39	RMS	35.6	.6	-95.2	-18.30	-59.91	-40	-19.91	V
10.875534	16.23	RMS	37.9	.5	-95.2	-14.70	-55.27	-40	-15.27	H
10.875534	15.90	RMS	37.9	.5	-95.2	-14.7	-55.60	-40	-15.60	V
14.499675	17.44	RMS	39.7	.8	-95.2	-14.00	-51.26	-40	-11.26	H
14.499675	16.95	RMS	39.7	.8	-95.2	-14.00	-51.75	-40	-11.75	V
High Channel, 3670.2MHz + 3690MHz										
7.360228	19.36	RMS	35.6	.7	-95.2	-18.20	-57.74	-40	-17.74	H
7.360228	18.22	RMS	35.6	.7	-95.2	-18.20	-58.88	-40	-18.88	V
11.040328	17.86	RMS	37.9	.6	-95.2	-14.37	-53.21	-40	-13.21	H
11.040328	17.05	RMS	37.9	.6	-95.2	-14.37	-54.02	-40	-14.02	V
14.720869	16.88	RMS	40.0	.9	-95.2	-13.50	-50.92	-40	-10.92	H
14.720869	16.24	RMS	40.0	.9	-95.2	-13.50	-51.56	-40	-11.56	V

10.4. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 7+8

10.4.1. 5G NR n48 MIMO

Project #:	14982479
Date:	07/08/2024
Test Engineer:	32145
Configuration:	EUT Only
Mode	5G NR n48 40MHz QPSK MIMO
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.090125	24.38	RMS	35.6	.5	-95.2	-27.20	-61.92	-40	-21.92	H
7.079991	24.32	RMS	35.6	.6	-95.2	-27.10	-61.78	-40	-21.78	V
10.708097	22.60	RMS	37.6	.5	-95.2	-24.20	-58.70	-40	-18.70	H
10.679897	22.64	RMS	37.6	.6	-95.2	-24.50	-58.86	-40	-18.86	V
14.270109	20.37	RMS	39.0	.8	-95.2	-20.21	-55.24	-40	-15.24	H
14.256891	20.54	RMS	39.0	.8	-95.2	-20.21	-55.07	-40	-15.07	V
Mid Channel, 3620.01MHz										
7.281797	24.62	RMS	35.5	.5	-95.2	-26.72	-61.30	-40	-21.30	H
7.265934	23.87	RMS	35.5	.6	-95.2	-26.79	-62.02	-40	-22.02	V
10.836759	23.63	RMS	37.7	.6	-95.2	-24.10	-57.37	-40	-17.37	H
10.838963	23.21	RMS	37.7	.6	-95.2	-24.10	-57.79	-40	-17.79	V
14.481169	19.87	RMS	39.2	.7	-95.2	-19.78	-55.21	-40	-15.21	H
14.512894	18.98	RMS	39.2	.8	-95.2	-19.72	-55.94	-40	-15.94	V
High Channel, 3679.98MHz										
7.351416	24.55	RMS	35.5	.6	-95.2	-26.96	-61.51	-40	-21.51	H
7.355381	24.09	RMS	35.5	.7	-95.2	-26.94	-61.85	-40	-21.85	V
11.042531	22.25	RMS	37.8	.6	-95.2	-23.55	-58.10	-40	-18.10	H
11.054869	21.94	RMS	37.8	.6	-95.2	-23.50	-58.36	-40	-18.36	V
14.630541	19.87	RMS	39.3	.9	-95.2	-20.05	-55.18	-40	-15.18	H
14.672841	19.81	RMS	39.3	.9	-95.2	-19.62	-54.81	-40	-14.81	V

10.5. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 7+4

10.5.1. 5G NR n48 MIMO

Project #:	14982479
Date:	07/07/2024
Test Engineer:	32145
Configuration:	EUT Only
Mode	5G NR n48 40MHz QPSK MIMO
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.139916	25.11	RMS	35.6	.6	-95.2	-27.1	-60.99	-40	-20.99	H
7.129781	24.98	RMS	35.6	.5	-95.2	-27.2	-61.32	-40	-21.32	V
10.700166	23.34	RMS	37.6	.5	-95.2	-24.22	-57.98	-40	-17.98	H
10.746872	22.12	RMS	37.7	.6	-95.2	-24.29	-59.07	-40	-19.07	V
14.194322	20.72	RMS	39.0	.7	-95.2	-20.1	-54.88	-40	-14.88	H
14.184188	21.31	RMS	39.0	.7	-95.2	-20.1	-54.29	-40	-14.29	V
Mid Channel, 3620.01MHz										
7.203366	24.92	RMS	35.6	.6	-95.2	-27.14	-61.22	-40	-21.22	H
7.209094	25.05	RMS	35.6	.6	-95.2	-27.09	-61.04	-40	-21.04	V
10.841166	23.63	RMS	37.7	.6	-95.2	-24.12	-57.39	-40	-17.39	H
10.836759	23.86	RMS	37.7	.6	-95.2	-24.1	-57.14	-40	-17.14	V
14.546381	19.92	RMS	39.2	.8	-95.2	-19.96	-55.24	-40	-15.24	H
14.53845	20.06	RMS	39.2	.8	-95.2	-19.94	-55.08	-40	-15.08	V
High Channel, 3679.98MHz										
7.358906	24.76	RMS	35.5	.7	-95.2	-26.81	-61.05	-40	-21.05	H
7.344806	24.88	RMS	35.5	.6	-95.2	-26.92	-61.14	-40	-21.14	V
11.052225	22.59	RMS	37.8	.6	-95.2	-23.50	-57.71	-40	-17.71	H
11.057513	22.27	RMS	37.8	.6	-95.2	-23.55	-58.08	-40	-18.08	V
14.697075	19.95	RMS	39.4	.9	-95.2	-19.71	-54.66	-40	-14.66	H
14.750831	19.47	RMS	39.4	.8	-95.2	-19.72	-55.25	-40	-15.25	V

10.6. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 9+8

10.6.1. 5G NR n48 MIMO

Project #:	14982479
Date:	07/07/2024
Test Engineer:	32145
Configuration:	EUT Only
Mode	5G NR n48 40MHz QPSK MIMO
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.132425	25.13	RMS	35.6	.5	-95.2	-27.20	-61.17	-40	-21.17	H
7.131103	25.35	RMS	35.6	.5	-95.2	-27.20	-60.95	-40	-20.95	V
10.696641	23.15	RMS	37.6	.5	-95.2	-24.27	-58.22	-40	-18.22	H
10.693116	23.45	RMS	37.6	.5	-95.2	-24.30	-57.95	-40	-17.95	V
14.248078	20.38	RMS	39.0	.8	-95.2	-20.32	-55.34	-40	-15.34	H
14.284209	19.89	RMS	39.1	.7	-95.2	-20.38	-55.89	-40	-15.89	V
Mid Channel, 3620.01MHz										
7.350975	24.79	RMS	35.5	.6	-95.2	-27.00	-61.31	-40	-21.31	H
7.347009	24.88	RMS	35.5	.6	-95.2	-26.90	-61.12	-40	-21.12	V
10.848656	23.18	RMS	37.7	.5	-95.2	-24.03	-57.85	-40	-17.85	H
10.850859	23.13	RMS	37.7	.5	-95.2	-24.10	-57.97	-40	-17.97	V
14.53845	20.15	RMS	39.2	.8	-95.2	-19.94	-54.99	-40	-14.99	H
14.556956	19.80	RMS	39.3	.8	-95.2	-20.00	-55.30	-40	-15.30	V
High Channel, 3679.98MHz										
7.350094	24.80	RMS	35.5	.6	-95.2	-26.91	-61.21	-40	-21.21	H
7.303828	23.66	RMS	35.5	.6	-95.2	-26.92	-62.36	-40	-22.36	V
11.050903	22.65	RMS	37.8	.6	-95.2	-23.50	-57.65	-40	-17.65	H
11.093644	21.30	RMS	37.8	.7	-95.2	-23.30	-58.70	-40	-18.70	V
14.679891	19.93	RMS	39.3	.9	-95.2	-19.69	-54.76	-40	-14.76	H
14.695753	20.35	RMS	39.4	.9	-95.2	-19.88	-54.43	-40	-14.43	V

10.7. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 9+4

10.7.1. 5G NR n48 MIMO

Project #:	14982479
Date:	07/06/2024
Test Engineer:	32145
Configuration:	EUT Only
Mode	5G NR n48 40MHz QPSK MIMO
Chamber #:	01-RDE-B

Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	T1792 3400-3800MHz BRF (dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
Low Channel, 3570MHz										
7.135509	24.89	RMS	35.6	.6	-95.2	-27.2	-61.31	-40	-21.31	H
7.128019	24.86	RMS	35.6	.5	-95.2	-27.10	-61.34	-40	-21.34	V
10.630547	23.28	RMS	37.6	.6	-95.2	-24.55	-58.27	-40	-18.27	H
10.629666	23.44	RMS	37.6	.6	-95.2	-24.63	-58.19	-40	-18.19	V
14.259094	21.31	RMS	39.0	.8	-95.2	-20.30	-54.39	-40	-14.39	H
14.230894	20.06	RMS	39.0	.8	-95.2	-20.10	-55.44	-40	-15.44	V
Mid Channel, 3620.01MHz										
7.210416	24.69	RMS	35.6	.6	-95.2	-27.04	-61.35	-40	-21.35	H
7.205569	25.28	RMS	35.6	.6	-95.2	-27.10	-60.82	-40	-20.82	V
10.824422	22.94	RMS	37.7	.6	-95.2	-24.10	-58.06	-40	-18.06	H
10.813847	22.26	RMS	37.7	.6	-95.2	-24.10	-58.74	-40	-18.74	V
14.542856	20.01	RMS	39.2	.8	-95.2	-19.91	-55.10	-40	-15.10	H
14.506725	19.36	RMS	39.2	.8	-95.2	-19.80	-55.64	-40	-15.64	V
High Channel, 3679.98MHz										
7.352297	24.73	RMS	35.5	.7	-95.2	-26.96	-61.23	-40	-21.23	H
7.350534	25.11	RMS	35.5	.6	-95.2	-26.95	-60.94	-40	-20.94	V
11.064563	21.68	RMS	37.8	.6	-95.2	-23.40	-58.52	-40	-18.52	H
11.063681	21.96	RMS	37.8	.6	-95.2	-23.43	-58.27	-40	-18.27	V
14.763609	19.86	RMS	39.4	.8	-95.2	-19.76	-54.90	-40	-14.90	H
14.837634	19.55	RMS	39.4	.7	-95.2	-20.26	-55.81	-40	-15.81	V

11. SETUP PHOTOS

Please refer to 14982479-EP1V1 for Setup Photo Report for setup photos.

END OF REPORT