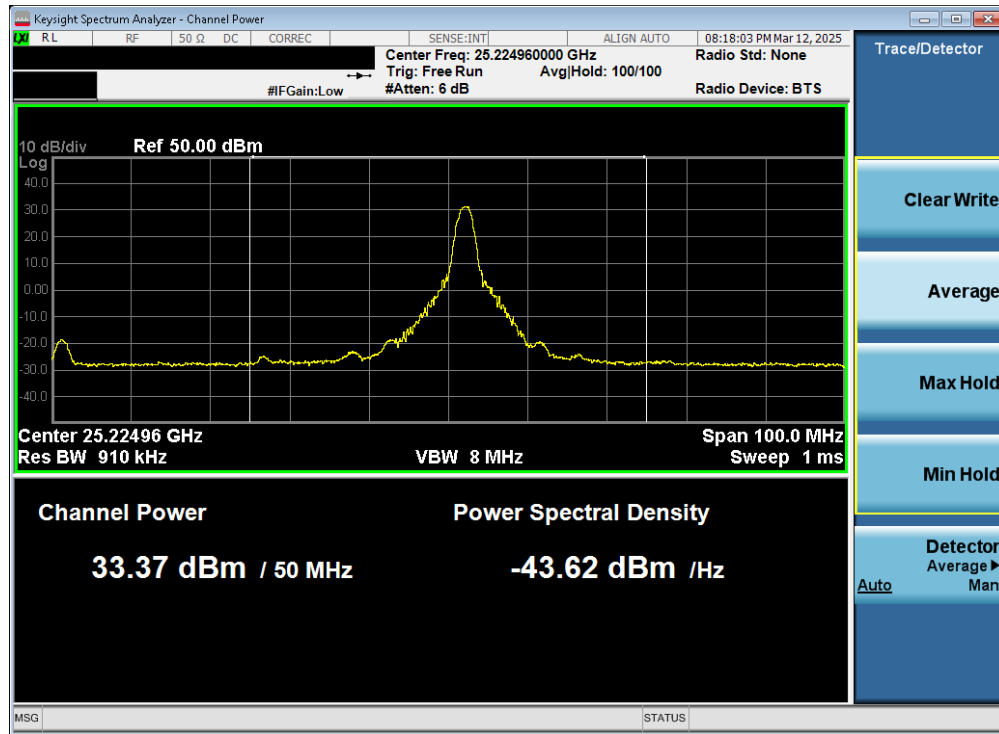
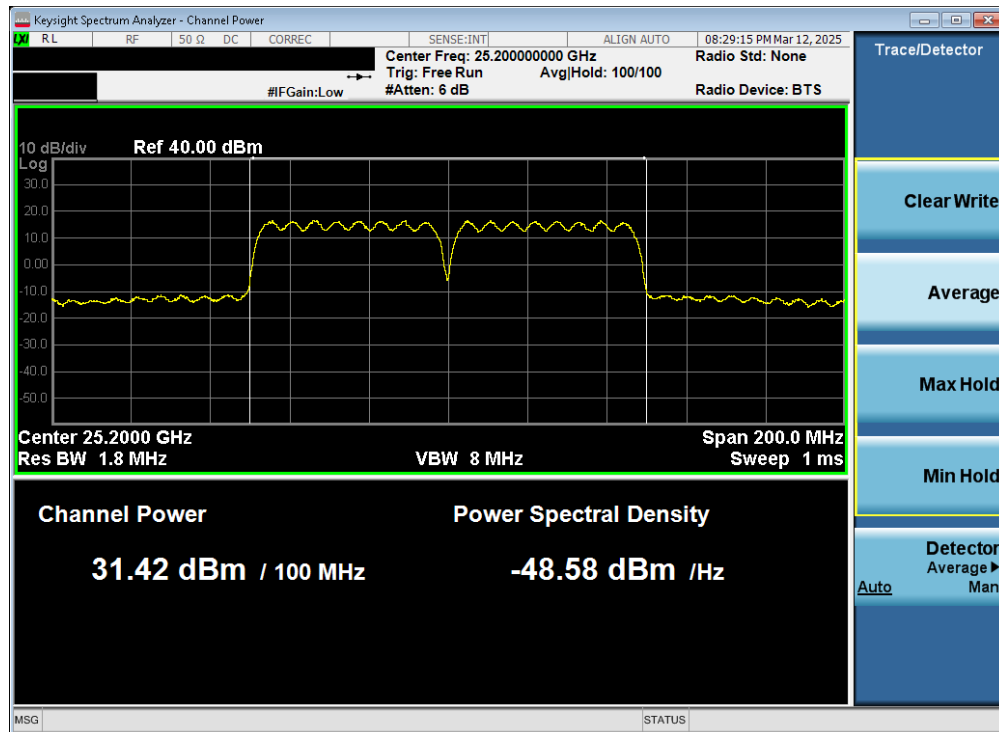


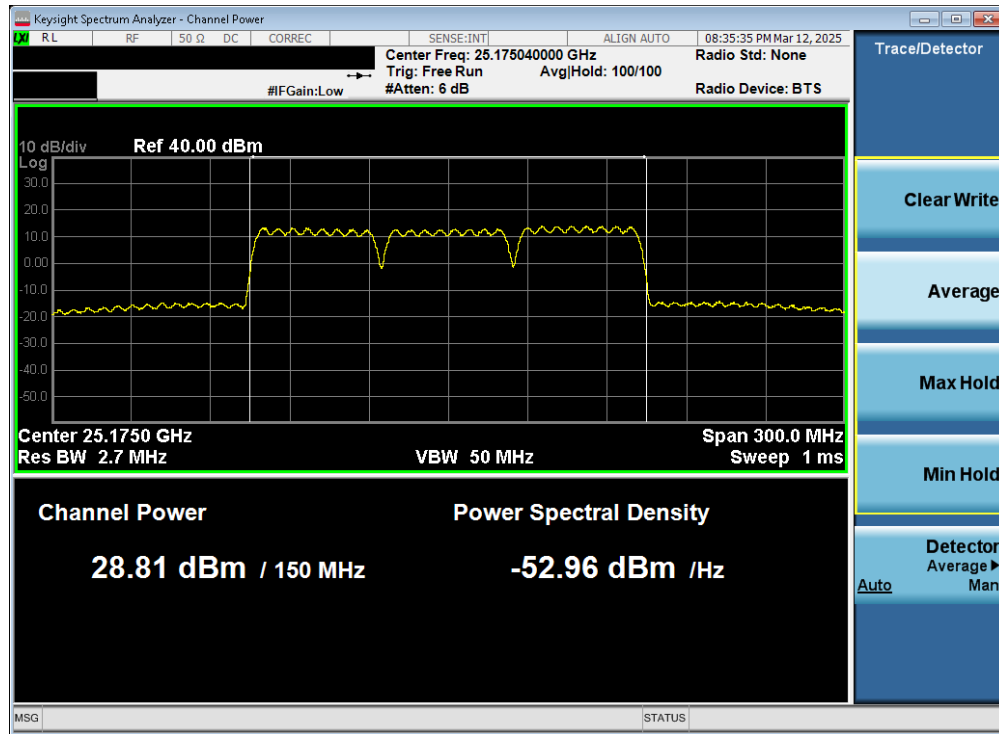


Plot 7-127. Ant1 EIRP Plot (Band 258-R2 – 50MHz-1CC – DFT-s-OFDM QPSK – High Channel)

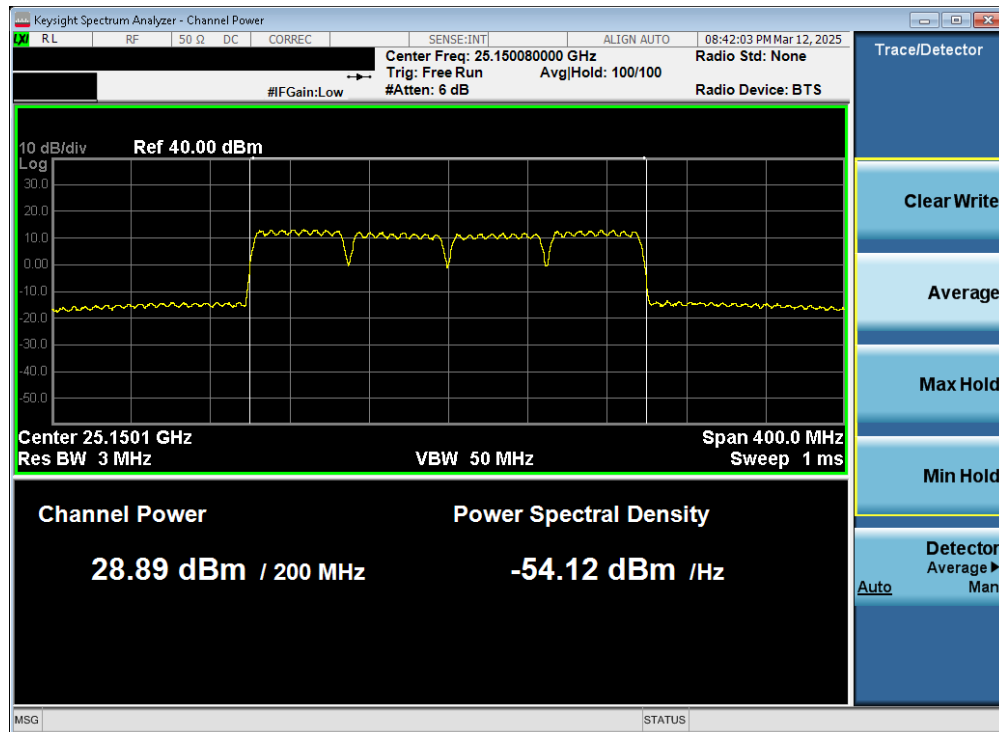


Plot 7-128. Ant1 EIRP Plot (Band 258-R2 – 50MHz-2CC – DFT-s-OFDM $\pi/2$ BPSK – High Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 90 of 194



Plot 7-129. Ant1 EIRP Plot (Band 258-R2 – 50MHz-3CC – DFT-s-OFDM QPSK – High Channel)



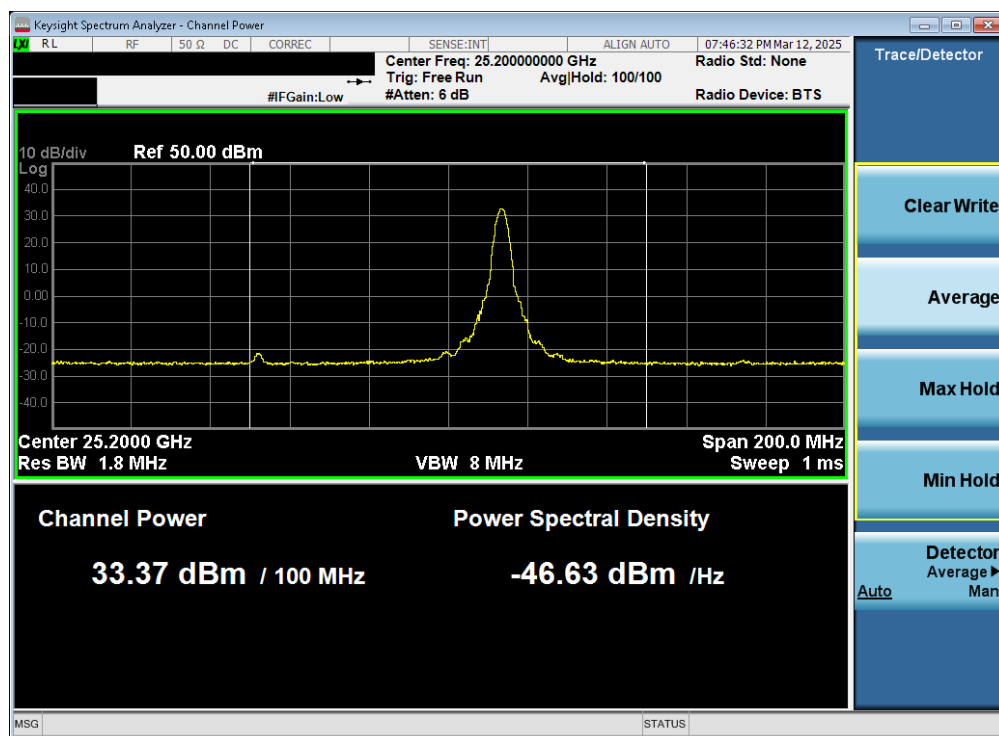
Plot 7-130. Ant1 EIRP Plot (Band 258-R2 – 50MHz-4CC – DFT-s-OFDM QPSK – High Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 91 of 194

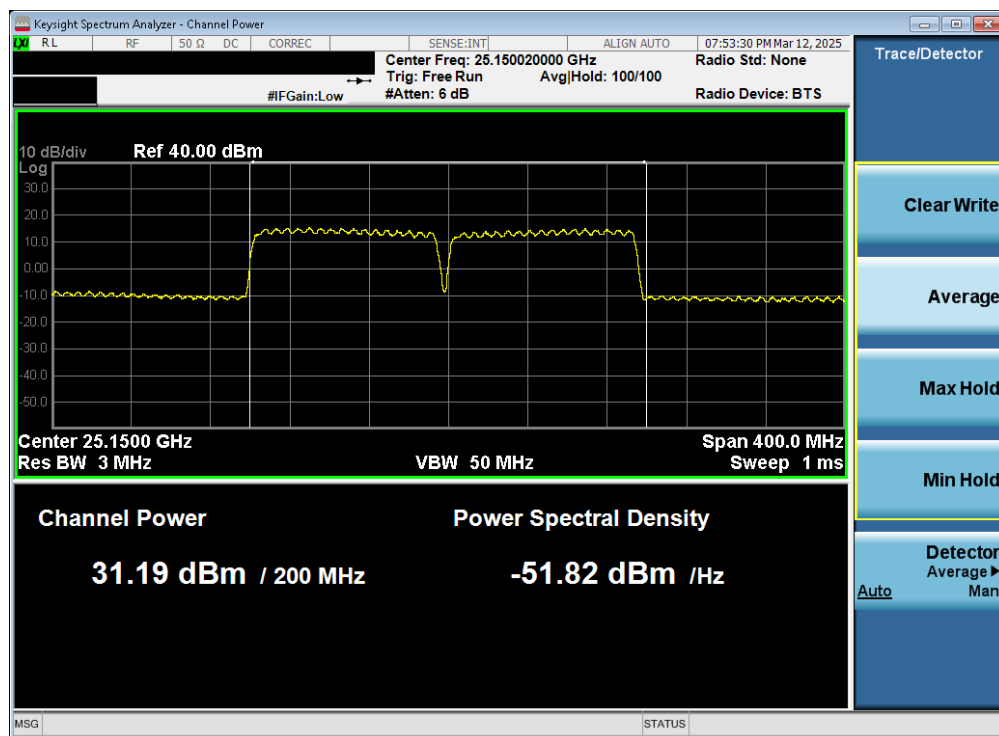
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offsets	EIRP [dBm]
100	1	Low	24800.04	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	1 / 42	32.70
				DFT-s-OFDM	QPSK	20	H	SISO	V	261	134	1 / 24	25.56
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	1 / 42	30.13
				CP-OFDM	QPSK	20	H	SISO	V	261	134	1 / 23	24.43
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	1 / 42	32.78
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	1 / 42	32.04
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	1 / 42	29.65
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	1 / 42	30.21
		Mid	24999.96	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	1 / 34	33.20
				DFT-s-OFDM	QPSK	270	V	SISO	H	75	78	64 / 0	28.24
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	1 / 33	30.66
				CP-OFDM	QPSK	270	V	SISO	H	75	78	1 / 23	27.16
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	1 / 34	33.25
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	1 / 34	32.67
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	1 / 42	30.21
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	1 / 42	30.21
		High	25200.00	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	1 / 34	33.25
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	1 / 42	30.79
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	1 / 42	33.37
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	1 / 42	32.70
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	1 / 42	29.74
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	1 / 42	29.74
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	64 / 0	31.15
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	64 / 0	31.20
100+100	2	Low	24850.02	DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	64 / 0	31.15
		Mid	25000.02	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	64 / 0	31.20
		High	25150.02	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	64 / 0	31.14
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	66 / 0	28.73
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	64 / 0	31.19
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	64 / 0	30.74
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	64 / 0	27.25
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	64 / 0	27.25
100+100+100	3	Low	24900.00	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	64 / 0	28.55
		High	25100.04	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	64 / 0	28.66
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	66 / 0	27.75
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	64 / 0	28.58
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	64 / 0	27.78
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	64 / 0	25.68
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	64 / 0	25.68
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	64 / 0	25.59
100+100+100+100	4	Low	24949.98	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	64 / 0	28.72
		High	25050.06	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	V	294	130	64 / 0	28.71
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	V	294	130	66 / 0	27.67
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	V	294	130	64 / 0	28.72
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	V	294	130	64 / 0	27.68
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	64 / 0	25.59
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	64 / 0	25.59
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	V	294	130	64 / 0	25.59

Table 7-9. Ant1 EIRP Data (Band n258-R2 - 100MHz)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 92 of 194

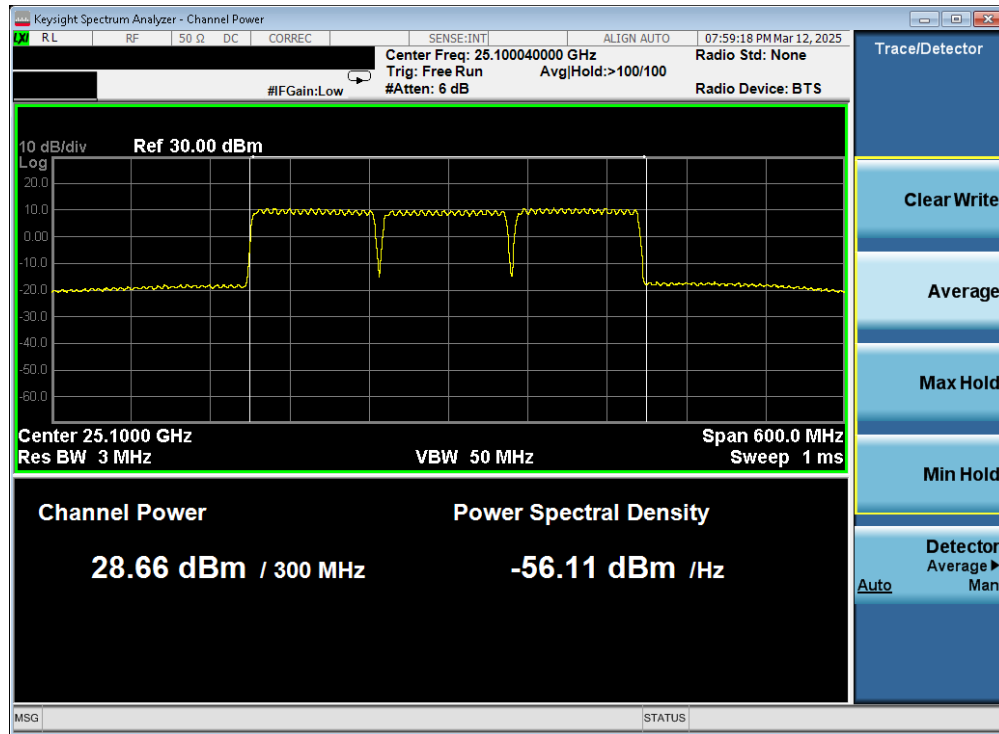


Plot 7-131. Ant1 EIRP Plot (Band 258-R2 – 100MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK – High Channel)

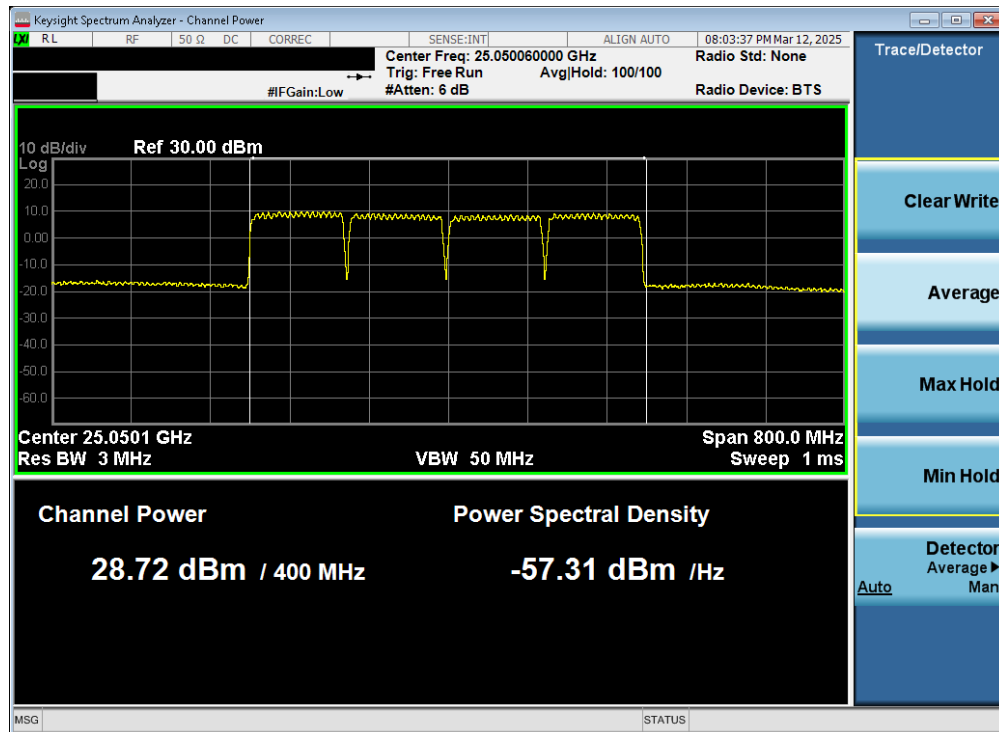


Plot 7-132. Ant1 EIRP Plot (Band 258-R2 – 100MHz-2CC – DFT-s-OFDM $\pi/2$ BPSK – High Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 93 of 194



Plot 7-133. Ant1 EIRP Plot (Band 258-R2 – 100MHz-3CC – DFT-s-OFDM QPSK – High Channel)



Plot 7-134. Ant1 EIRP Plot (Band 258-R2 – 100MHz-4CC – DFT-s-OFDM $\pi/2$ BPSK – High Channel)

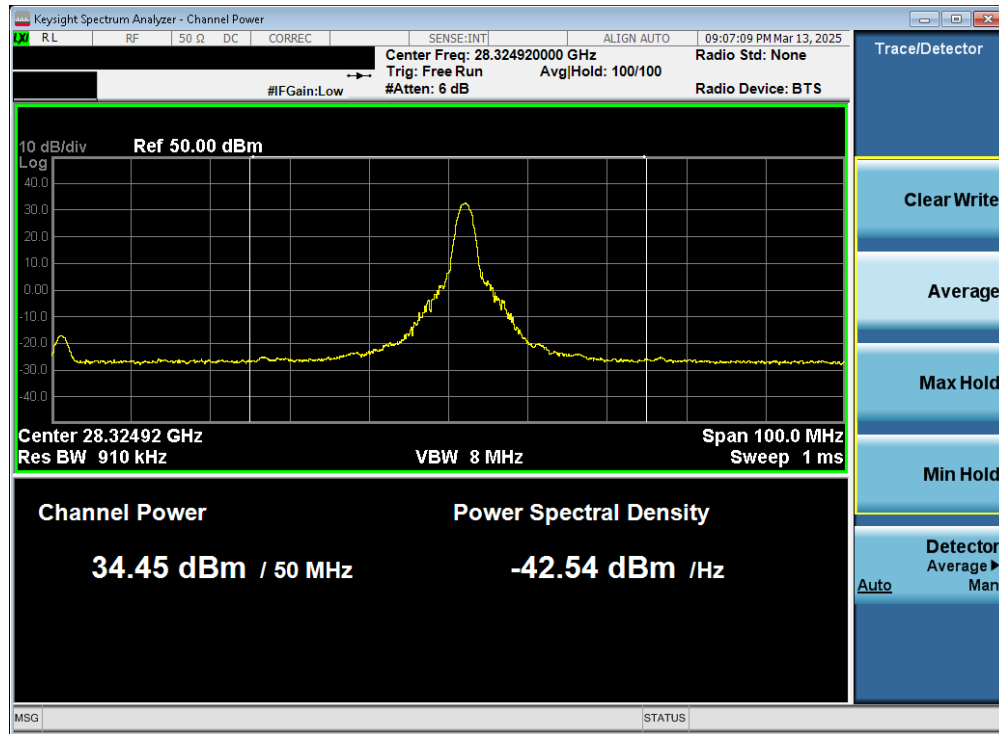
FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 94 of 194

Band n261

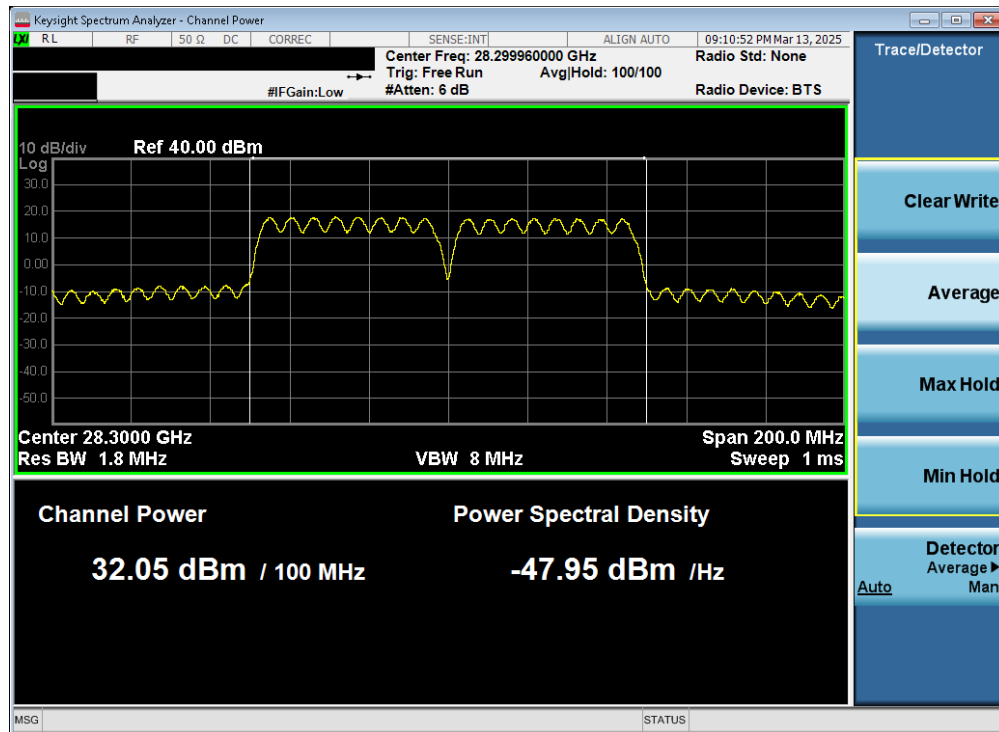
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offsets	EIRP [dBm]
50	1	Low	27525.00	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	196	138	1 / 17	33.60
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	V	196	138	1 / 13	31.14
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	196	138	1 / 17	33.63
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	V	196	138	1 / 17	33.07
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	V	196	138	1 / 13	29.99
		Mid	27924.96	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	298	144	1 / 17	33.79
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	V	298	144	1 / 17	31.39
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	298	144	1 / 17	33.84
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	V	298	144	1 / 17	33.33
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	V	298	144	1 / 17	30.28
		High	28324.92	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	296	138	1 / 17	34.37
				DFT-s-OFDM	QPSK	18	H	SISO	H	110	223	1 / 13	30.96
				DFT-s-OFDM	QPSK	271	V	SISO	H	288	107	1 / 13	30.26
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	V	296	138	1 / 17	32.01
				CP-OFDM	QPSK	18	H	SISO	H	110	223	1 / 13	29.32
				CP-OFDM	QPSK	271	V	SISO	H	288	107	1 / 13	28.73
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	1 / 17	34.45
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	V	296	138	1 / 17	34.09
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	V	296	138	1 / 17	30.94
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	32 / 0	30.77
50+50	2	Low	27549.96	DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	32 / 0	30.92
		Mid	27924.96	DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	298	144	32 / 0	30.92
		High	28299.96	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	196	138	32 / 0	32.05
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	V	196	138	32 / 0	29.43
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	196	138	32 / 0	32.05
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	V	196	138	32 / 0	31.51
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	V	196	138	32 / 0	27.86
				DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	296	138	32 / 0	28.08
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	298	144	32 / 0	28.16
				DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	296	138	32 / 0	29.19
50+50+50	3	Low	27574.92	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	296	138	32 / 0	28.19
		Mid	27924.96	DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	298	144	32 / 0	28.19
		High	28275.00	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	296	138	32 / 0	28.19
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	V	296	138	32 / 0	28.19
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	32 / 0	29.23
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	V	296	138	32 / 0	28.22
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	V	296	138	32 / 0	26.15
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	32 / 0	28.32
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	298	144	32 / 0	28.23
50+50+50+50	4	Low	27599.88	DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	32 / 0	28.32
		Mid	27924.96	DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	298	144	32 / 0	28.23
		High	28250.04	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	296	138	32 / 0	29.22
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	V	296	138	32 / 0	28.10
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	32 / 0	29.16
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	V	296	138	32 / 0	28.11
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	V	296	138	32 / 0	25.96

Table 7-10. Ant1 EIRP Data (Band n261 - 50MHz)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 95 of 194

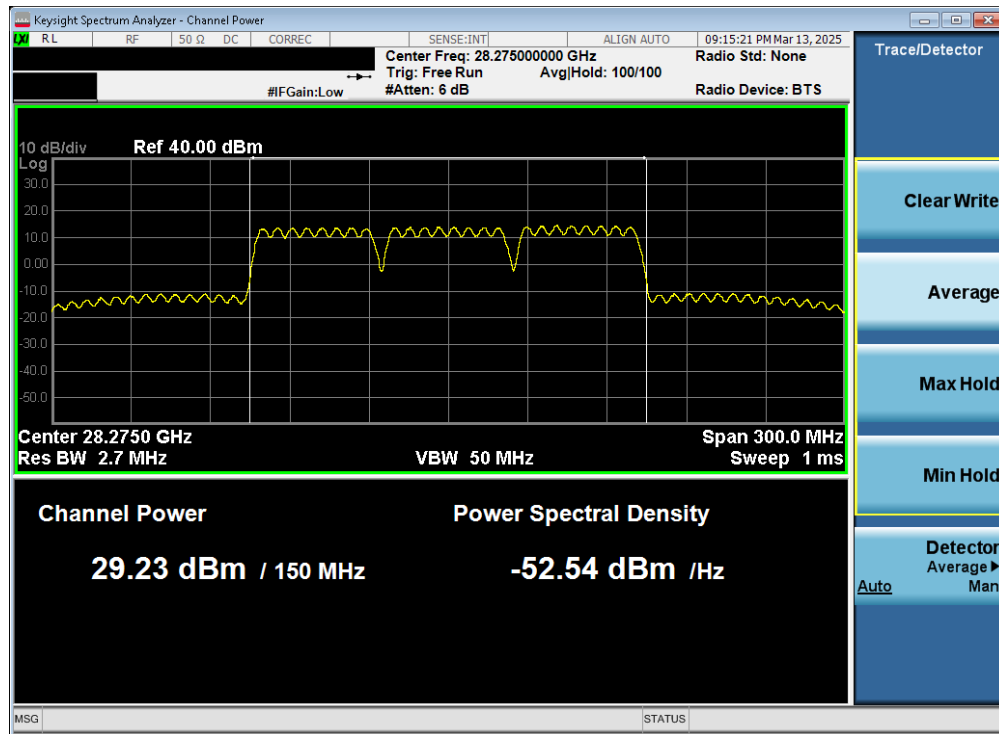


Plot 7-135. Ant1 EIRP Plot (Band 261 – 50MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK – High Channel)

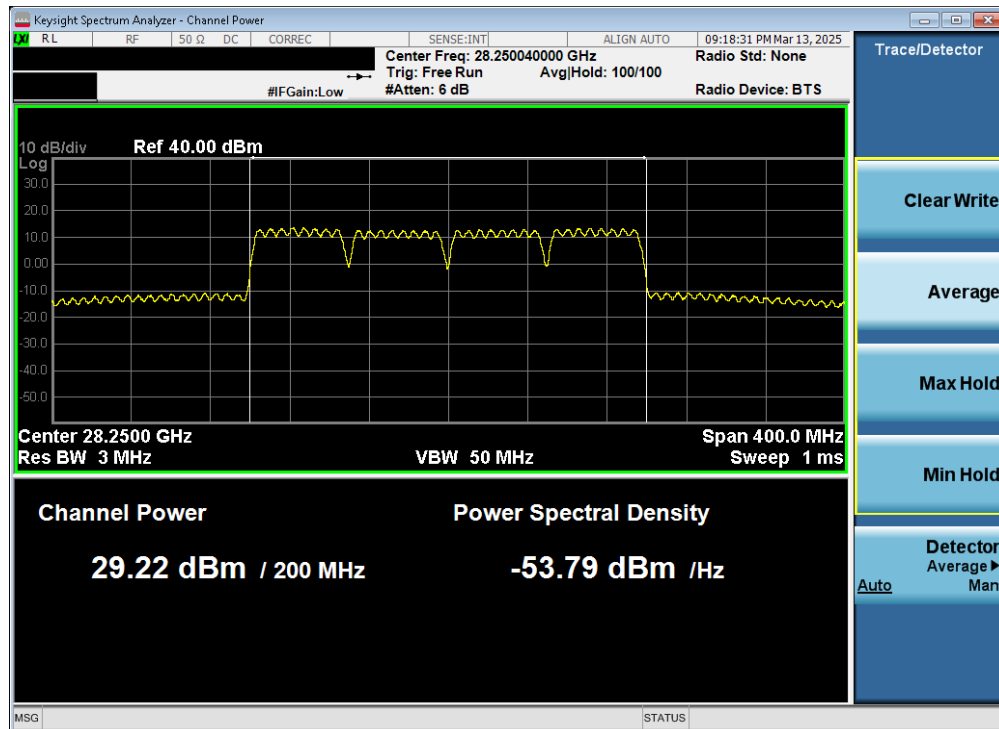


Plot 7-136. Ant1 EIRP Plot (Band 261 – 50MHz-2CC – DFT-s-OFDM $\pi/2$ BPSK – High Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 96 of 194



Plot 7-137. Ant1 EIRP Plot (Band 261 – 50MHz-3CC – DFT-s-OFDM $\pi/2$ BPSK – High Channel)



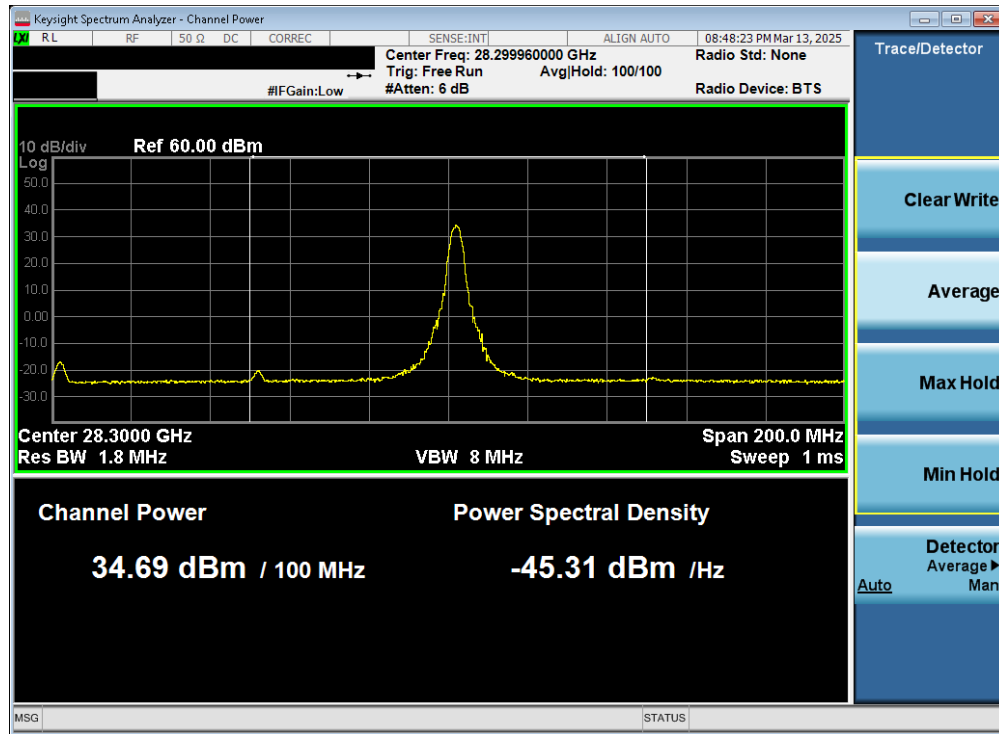
Plot 7-138. Ant1 EIRP Plot (Band 261 – 50MHz-4CC – DFT-s-OFDM QPSK – High Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 97 of 194

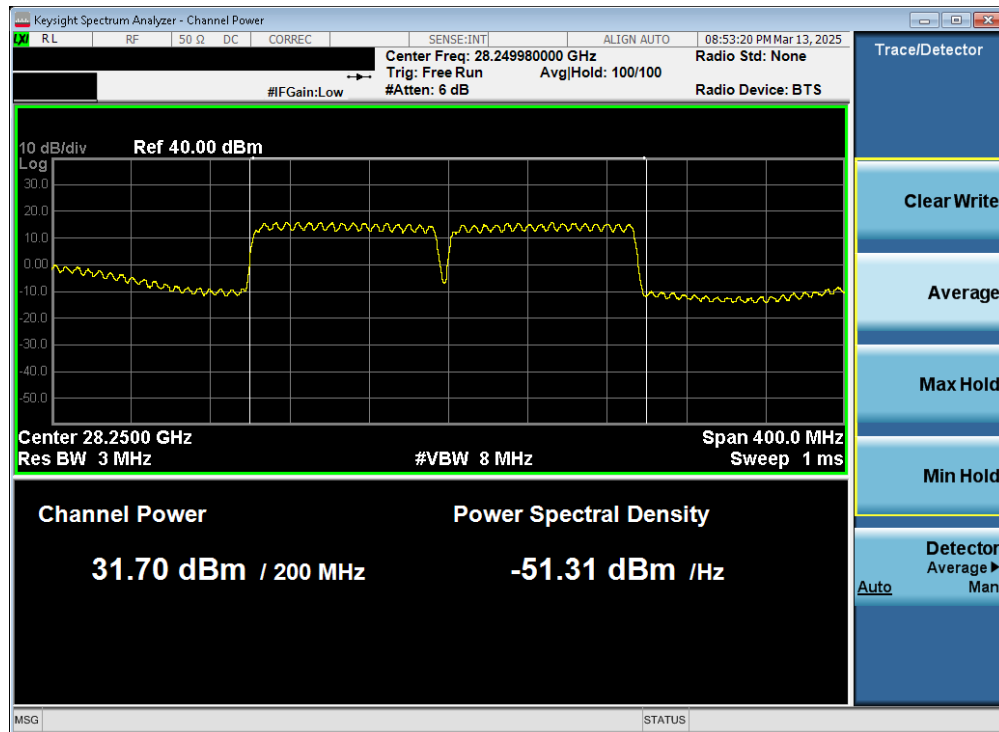
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offsets	EIRP [dBm]
100	1	Low	27550.08	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	296	138	1 / 34	33.92
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	V	296	138	1 / 34	30.94
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	1 / 42	34.01
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	V	296	138	1 / 34	32.97
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	V	296	138	1 / 42	29.97
		Mid	27924.96	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	298	144	1 / 42	34.40
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	V	298	144	1 / 42	31.79
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	298	144	1 / 42	34.36
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	V	298	144	1 / 42	33.83
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	V	298	144	1 / 42	30.74
		High	28299.96	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	296	138	1 / 34	34.69
				DFT-s-OFDM	QPSK	18	H	SISO	H	110	223	1 / 23	31.14
				DFT-s-OFDM	QPSK	271	V	SISO	H	288	107	1 / 23	30.50
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	V	296	138	1 / 34	32.15
				CP-OFDM	QPSK	18	H	SISO	H	110	223	1 / 23	29.67
				CP-OFDM	QPSK	271	V	SISO	H	288	107	1 / 23	28.99
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	1 / 34	34.67
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	V	296	138	1 / 42	34.16
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	V	296	138	1 / 34	31.11
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	64 / 0	30.78
100+100	2	Low	27600.06	DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	64 / 0	31.12
		Mid	27925.02	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	298	144	64 / 0	31.70
		High	28249.98	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	296	138	64 / 0	31.70
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	V	296	138	66 / 0	29.20
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	64 / 0	31.70
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	V	296	138	64 / 0	31.22
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	V	296	138	64 / 0	27.64
		100+100+100	3	Low	27650.04	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	296	138
Mid	27924.96			DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	298	144	64 / 0	28.58
High	28200.00			DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	296	138	64 / 0	29.01
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	V	296	138	66 / 0	28.10
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	64 / 0	28.99
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	V	296	138	64 / 0	28.12
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	V	296	138	64 / 0	26.02
00+100+100+10	4			Low	27700.02	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	296	138
		Mid	27925.02	DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	298	144	64 / 0	28.20
		High	28150.02	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	V	296	138	64 / 0	29.16
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	V	296	138	66 / 0	28.26
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	V	296	138	64 / 0	29.22
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	V	296	138	64 / 0	28.23
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	V	296	138	64 / 0	26.09

Table 7-11. Ant1 EIRP Data (Band n261 - 100MHz)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 98 of 194

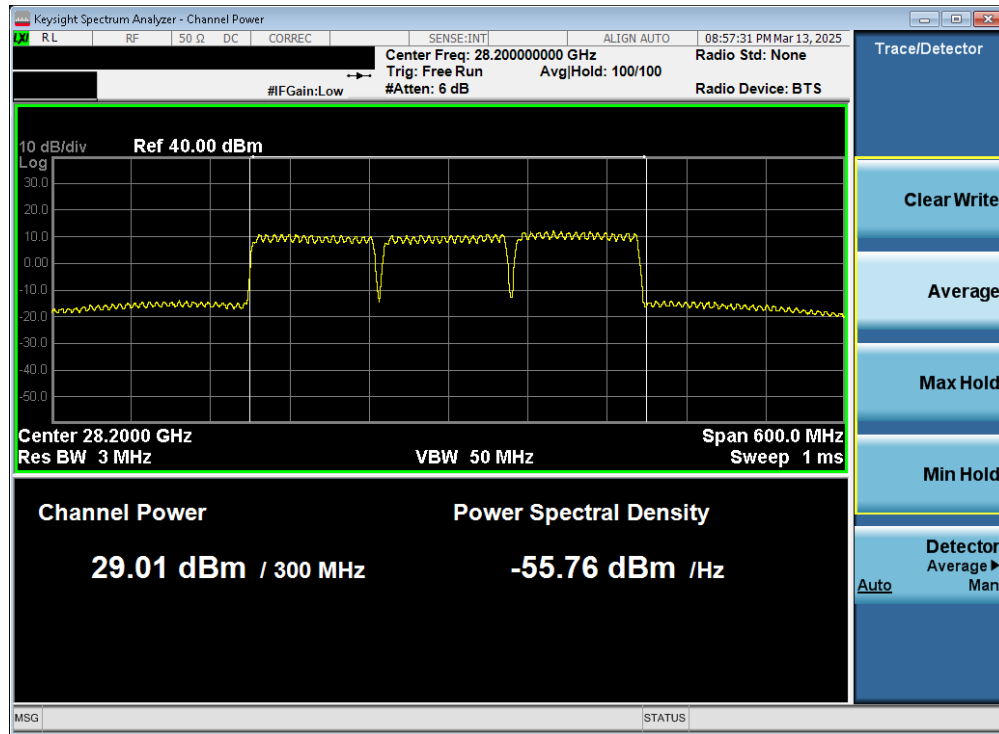


Plot 7-139. Ant1 EIRP Plot (Band 261 – 100MHz-1CC – DFT-s-OFDM QPSK – High Channel)

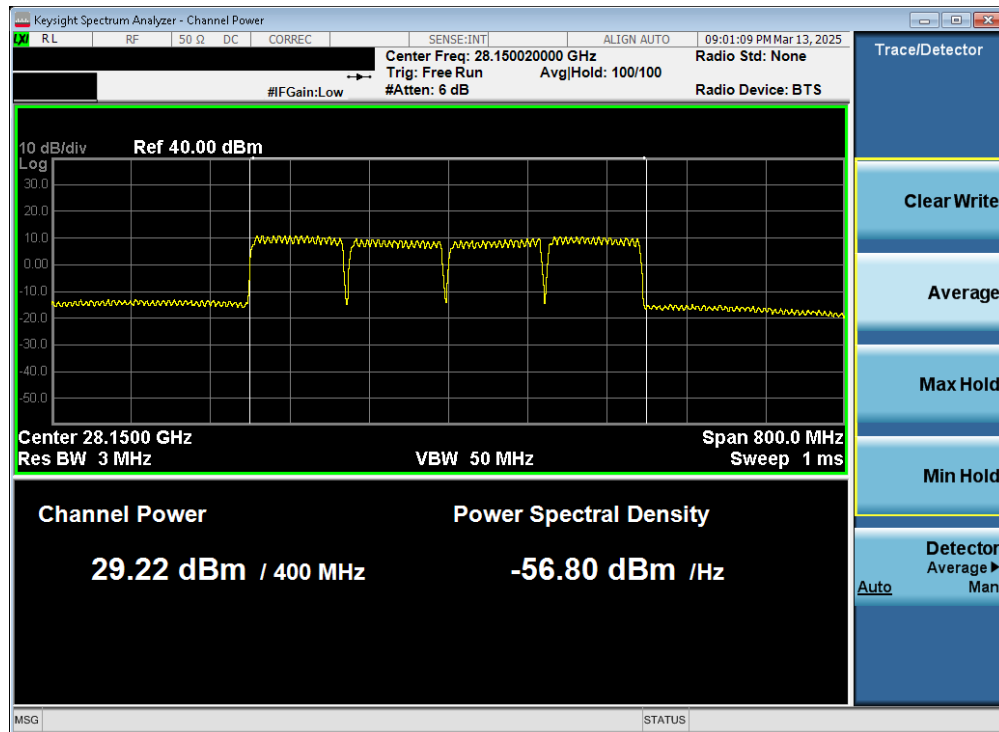


Plot 7-140. Ant1 EIRP Plot (Band 261 – 100MHz-2CC – DFT-s-OFDM QPSK – High Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 99 of 194



Plot 7-141. Ant1 EIRP Plot (Band 261 – 100MHz-3CC – DFT-s-OFDM QPSK – High Channel)



Plot 7-142. Ant1 EIRP Plot (Band 261 – 100MHz-4CC – DFT-s-OFDM $\pi/2$ BPSK – High Channel)

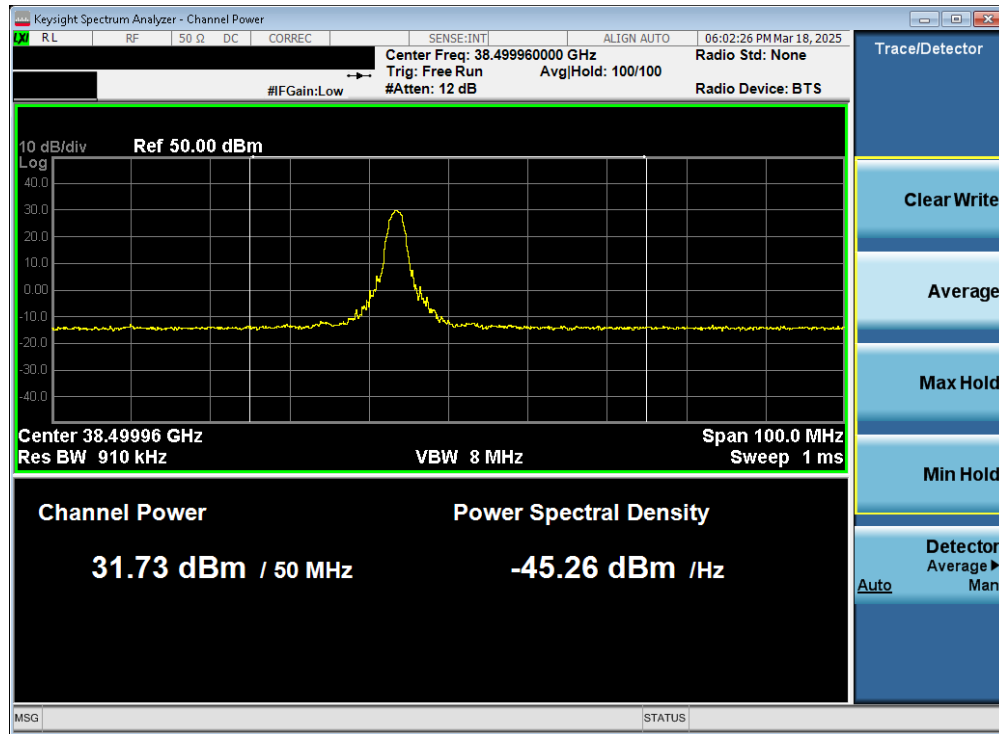
FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 100 of 194

Band n260

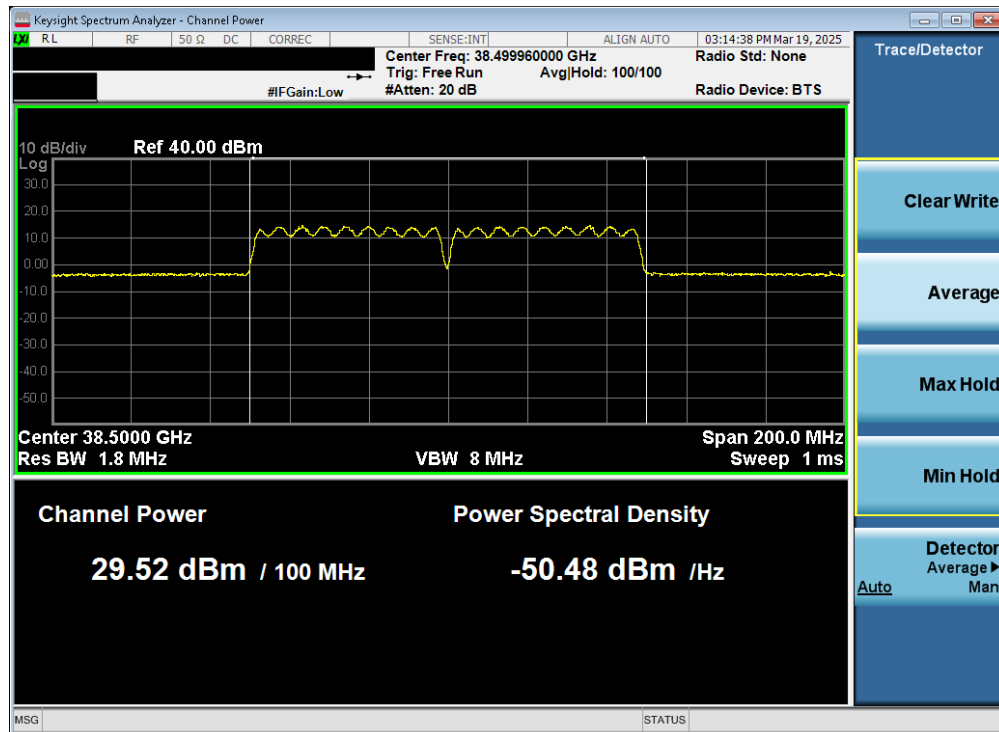
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offsets	EIRP [dBm]		
50	1	Low	37025.04	DFT-s-OFDM	QPSK	14+270	H + V	2Tx	V	308	267	1 / 12	29.23		
				DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	308	267	1 / 12	29.16		
		Mid	38499.96	DFT-s-OFDM	QPSK	14+270	H + V	2Tx	V	303	266	1 / 12	31.66		
				DFT-s-OFDM	QPSK	270	V	SISO	H	278	314	1 / 16	30.39		
				CP-OFDM	QPSK	14+270	H + V	MIMO	V	303	266	1 / 12	31.10		
				CP-OFDM	QPSK	270	V	SISO	H	278	314	1 / 12	29.86		
				DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	303	266	1 / 12	31.73		
				DFT-s-OFDM	16QAM	14+270	H + V	2Tx	V	303	266	1 / 12	31.48		
				DFT-s-OFDM	64QAM	14+270	H + V	2Tx	V	303	266	1 / 12	28.76		
		High	39975.00	DFT-s-OFDM	QPSK	14+270	H + V	2Tx	V	305	267	1 / 19	30.57		
				DFT-s-OFDM	QPSK	19	H	SISO	V	290	318	1 / 12	28.09		
				CP-OFDM	QPSK	19	H	SISO	V	290	318	1 / 12	27.61		
				DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	305	267	1 / 19	30.40		
50+50	2	Low	37050.00	DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	305	267	1 / 19	30.40		
				DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	290	269	32 / 0	28.92		
		Mid	38499.96	DFT-s-OFDM	QPSK	14+270	H + V	2Tx	V	292	267	32 / 0	29.35		
				CP-OFDM	QPSK	14+270	H + V	MIMO	V	292	267	32 / 0	27.00		
				DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	292	267	32 / 0	29.52		
				DFT-s-OFDM	16QAM	14+270	H + V	2Tx	V	292	267	32 / 0	28.98		
		Mid	38499.96	DFT-s-OFDM	64QAM	14+270	H + V	2Tx	V	292	267	32 / 0	25.44		
				DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	288	267	32 / 0	29.08		
				High	39950.04	DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	291	270	32 / 0	27.16
						CP-OFDM	QPSK	14+270	H + V	MIMO	V	291	270	32 / 0	26.11
50+50+50	3	Low	37074.96	DFT-s-OFDM	QPSK	14+270	H + V	2Tx	V	308	267	32 / 0	25.91		
				DFT-s-OFDM	QPSK	14+270	H + V	2Tx	V	291	270	32 / 0	27.16		
		Mid	38499.96	DFT-s-OFDM	QPSK	14+270	H + V	2Tx	V	291	270	32 / 0	26.11		
				DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	291	270	32 / 0	27.20		
				DFT-s-OFDM	16QAM	14+270	H + V	2Tx	V	291	270	32 / 0	26.16		
				DFT-s-OFDM	64QAM	14+270	H + V	2Tx	V	291	270	32 / 0	24.15		
		High	39925.08	DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	306	268	32 / 0	26.23		
				DFT-s-OFDM	QPSK	14+270	H + V	2Tx	V	307	270	32 / 0	26.15		
		50+50+50+50	4	Low	37099.92	DFT-s-OFDM	QPSK	14+270	H + V	2Tx	V	306	263	32 / 0	26.65
						CP-OFDM	QPSK	14+270	H + V	MIMO	V	306	263	32 / 0	25.67
Mid	38499.96			DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	306	263	32 / 0	26.71		
				DFT-s-OFDM	16QAM	14+270	H + V	2Tx	V	306	263	32 / 0	25.70		
				DFT-s-OFDM	64QAM	14+270	H + V	2Tx	V	306	263	32 / 0	23.76		
				DFT-s-OFDM	QPSK	14+270	H + V	2Tx	V	307	269	32 / 0	26.20		

Table 7-12. Ant1 EIRP Data (Band n260 - 50MHz)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 101 of 194

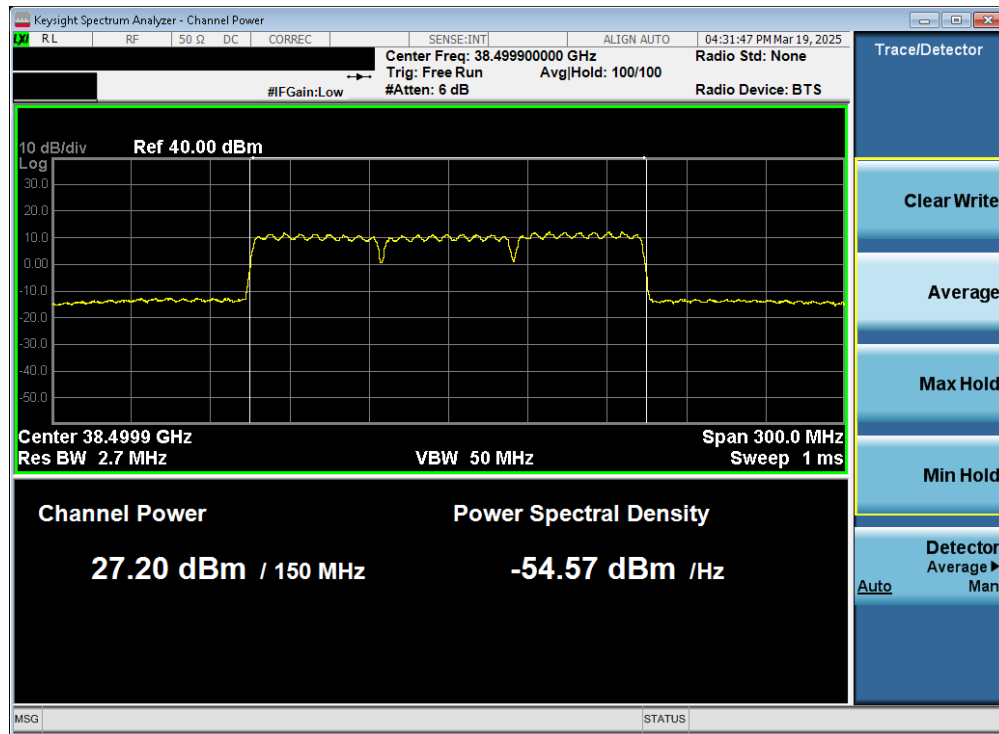


Plot 7-143. Ant1 EIRP Plot (Band 260 – 50MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK – Mid Channel)

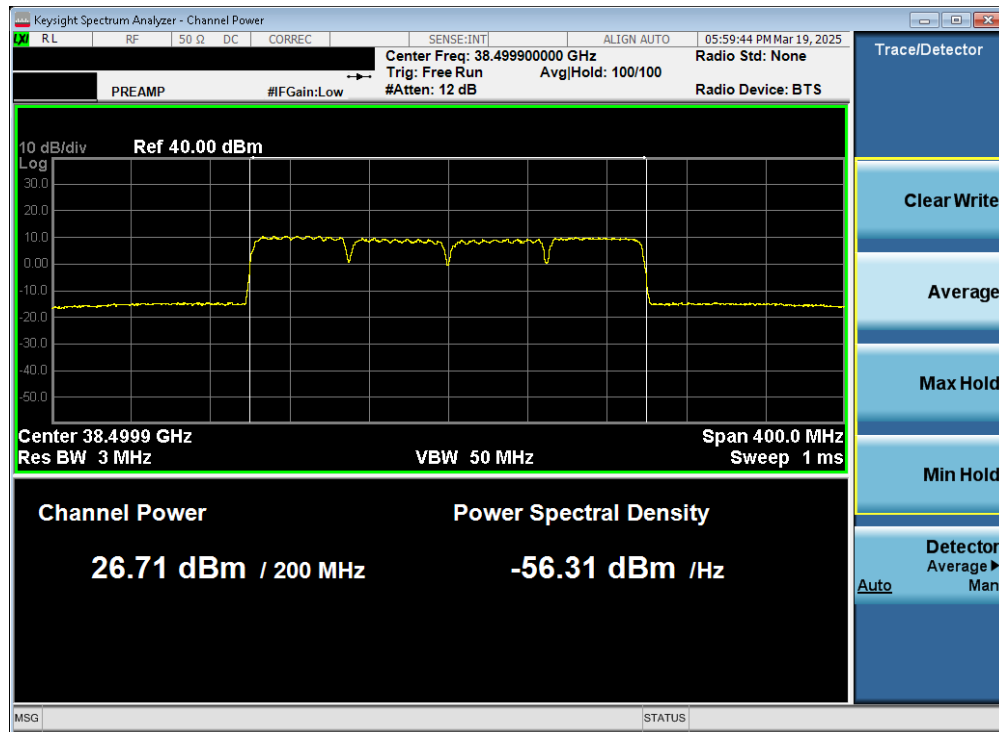


Plot 7-144. Ant1 EIRP Plot (Band 260 – 50MHz-2CC – DFT-s-OFDM $\pi/2$ BPSK – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 102 of 194



Plot 7-145. Ant1 EIRP Plot (Band 260 – 50MHz-3CC – DFT-s-OFDM $\pi/2$ BPSK – Mid Channel)



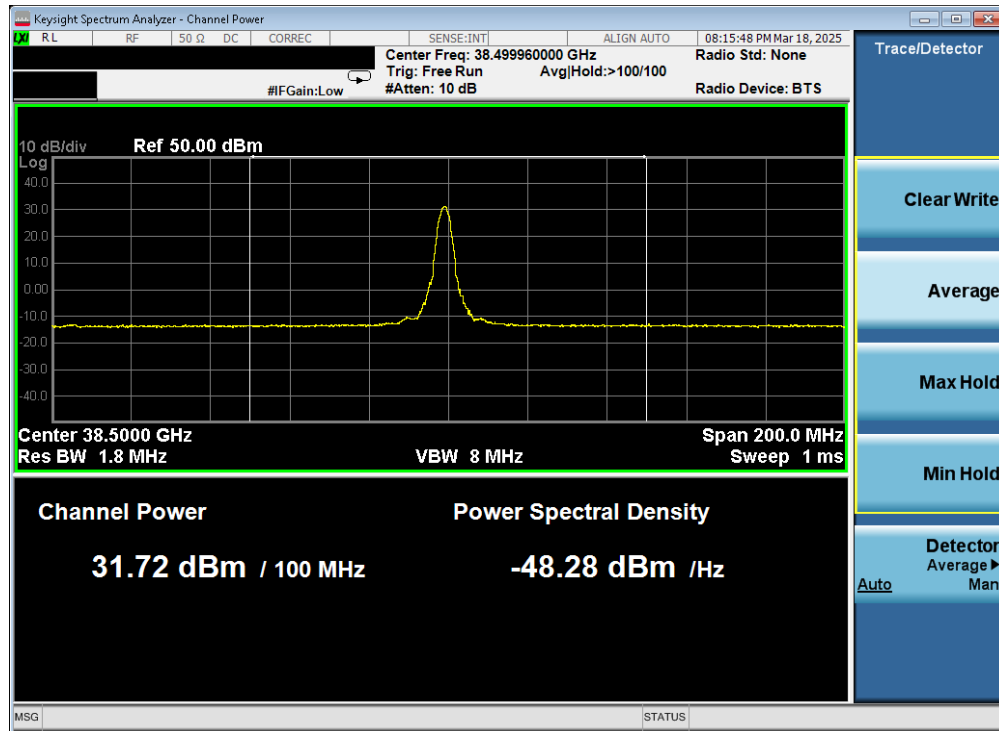
Plot 7-146. Ant1 EIRP Plot (Band 260 – 50MHz-4CC – DFT-s-OFDM $\pi/2$ BPSK – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 103 of 194

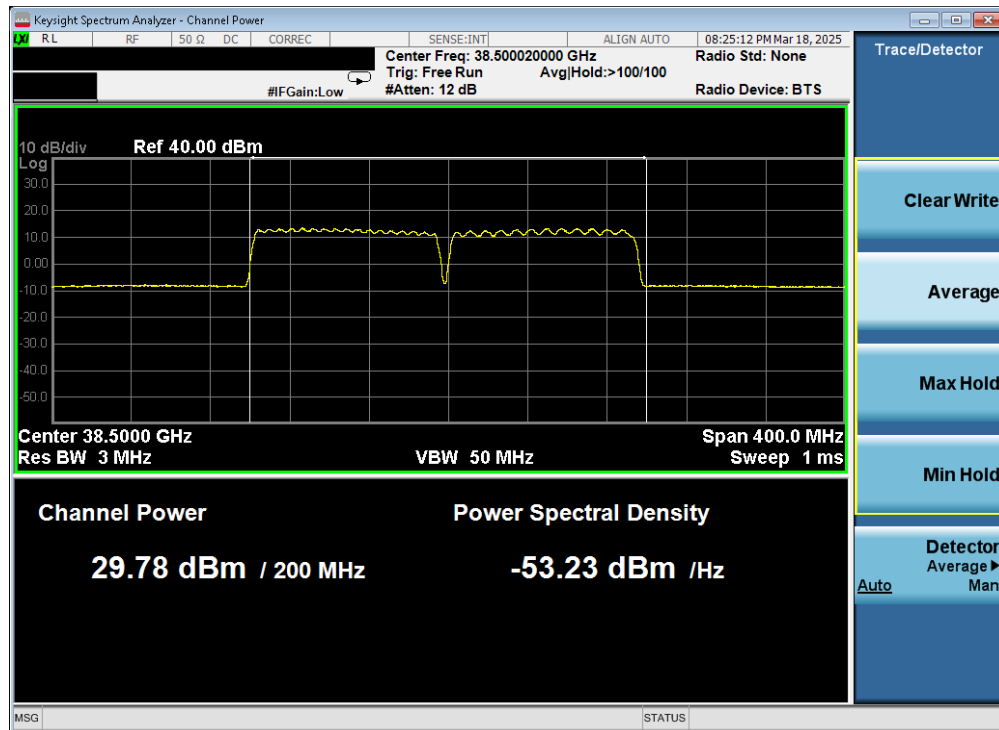
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offsets	EIRP [dBm]
100	1	Low	37050.00	DFT-s-OFDM	QPSK	14 + 270	H + V	2Tx	V	309	269	1 / 23	29.05
				DFT-s-OFDM	$\pi/2$ BPSK	14 + 270	H + V	2Tx	V	309	269	1 / 23	29.15
		Mid	38499.96	DFT-s-OFDM	QPSK	14 + 270	H + V	2Tx	V	293	265	1 / 32	31.72
				DFT-s-OFDM	QPSK	270	V	SISO	H	278	314	64 / 0	30.35
				CP-OFDM	QPSK	14 + 270	H + V	MIMO	V	293	265	1 / 32	29.69
				CP-OFDM	QPSK	270	V	SISO	H	278	314	1 / 32	29.78
				DFT-s-OFDM	$\pi/2$ BPSK	14 + 270	H + V	2Tx	V	293	265	1 / 32	31.70
				DFT-s-OFDM	16QAM	14 + 270	H + V	2Tx	V	293	265	1 / 32	29.87
				DFT-s-OFDM	64QAM	14 + 270	H + V	2Tx	V	293	265	1 / 32	26.84
		High	39949.92	DFT-s-OFDM	QPSK	14+270	H + V	2Tx	V	305	267	1 / 33	30.88
				DFT-s-OFDM	QPSK	19	H	SISO	V	290	318	64 / 0	28.04
				CP-OFDM	QPSK	19	H	SISO	V	290	318	1 / 23	27.46
				DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	305	267	1 / 33	30.87
100+100	2	Low	37099.98	DFT-s-OFDM	$\pi/2$ BPSK	14 + 270	H + V	2Tx	V	307	264	64 / 0	28.01
				DFT-s-OFDM	QPSK	14 + 270	H + V	2Tx	V	308	265	64 / 0	29.79
		Mid	38500.02	CP-OFDM	QPSK	14 + 270	H + V	MIMO	V	308	265	66 / 0	27.25
				DFT-s-OFDM	$\pi/2$ BPSK	14 + 270	H + V	2Tx	V	308	265	64 / 0	29.76
				DFT-s-OFDM	16QAM	14 + 270	H + V	2Tx	V	308	265	64 / 0	29.21
				DFT-s-OFDM	64QAM	14 + 270	H + V	2Tx	V	308	265	64 / 0	25.61
		High	39899.94	DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	300	264	64 / 0	28.07
				DFT-s-OFDM	QPSK	14 + 270	H + V	2Tx	V	307	269	64 / 0	26.29
100+100+100	3	Low	37149.96	DFT-s-OFDM	QPSK	14 + 270	H + V	2Tx	V	294	265	64 / 0	27.05
				CP-OFDM	QPSK	14 + 270	H + V	MIMO	V	294	265	66 / 0	26.03
		Mid	38499.96	DFT-s-OFDM	$\pi/2$ BPSK	14 + 270	H + V	2Tx	V	294	265	64 / 0	27.02
				DFT-s-OFDM	16QAM	14 + 270	H + V	2Tx	V	294	265	64 / 0	26.07
				DFT-s-OFDM	64QAM	14 + 270	H + V	2Tx	V	294	265	64 / 0	24.04
				DFT-s-OFDM	$\pi/2$ BPSK	14 + 270	H + V	2Tx	V	300	265	64 / 0	26.42
		High	39849.96	DFT-s-OFDM	$\pi/2$ BPSK	14 + 270	H + V	2Tx	V	290	270	64 / 0	25.26
				DFT-s-OFDM	QPSK	14 + 270	H + V	2Tx	V	297	267	64 / 0	26.55
100+100+100+100	4	Low	37199.94	DFT-s-OFDM	$\pi/2$ BPSK	14 + 270	H + V	2Tx	V	297	267	66 / 0	25.67
				CP-OFDM	QPSK	14 + 270	H + V	MIMO	V	297	267	64 / 0	26.71
		Mid	38500.02	DFT-s-OFDM	$\pi/2$ BPSK	14 + 270	H + V	2Tx	V	297	267	64 / 0	25.73
				DFT-s-OFDM	16QAM	14 + 270	H + V	2Tx	V	297	267	64 / 0	23.73
				DFT-s-OFDM	64QAM	14 + 270	H + V	2Tx	V	297	267	64 / 0	26.13
				DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	293	264	64 / 0	26.13
		High	39799.98	DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	293	264	64 / 0	26.13
				DFT-s-OFDM	$\pi/2$ BPSK	14+270	H + V	2Tx	V	293	264	64 / 0	26.13

Table 7-13. Ant1 EIRP Data (Band n260 - 100MHz)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 104 of 194

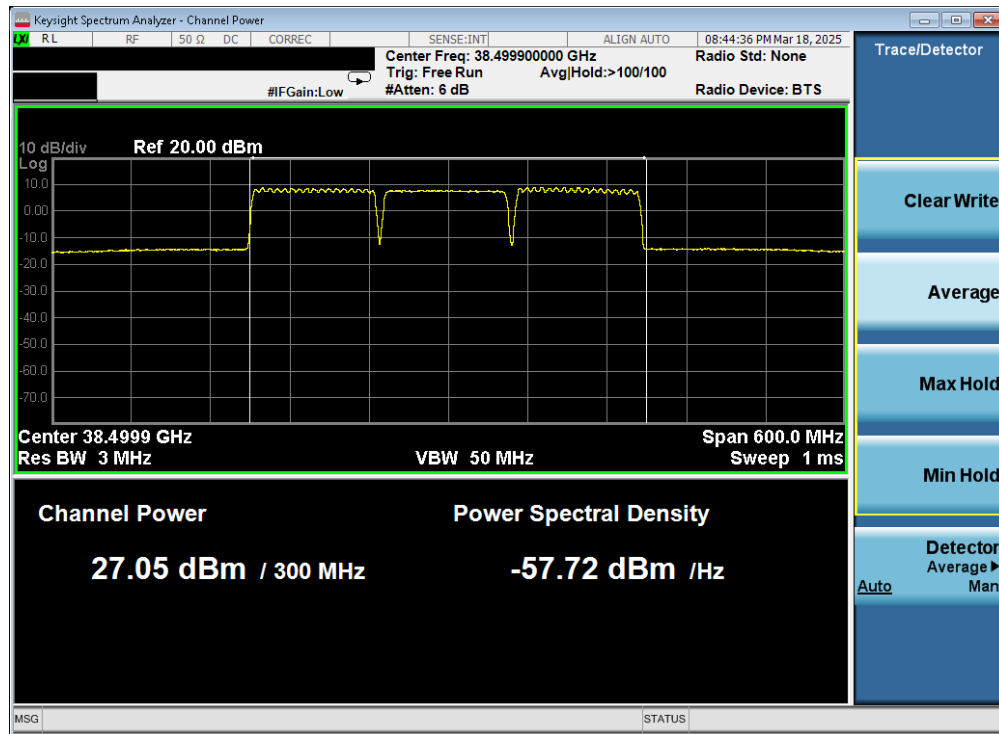


Plot 7-147. Ant1 EIRP Plot (Band 260 – 100MHz-1CC – DFT-s-OFDM QPSK – Mid Channel)

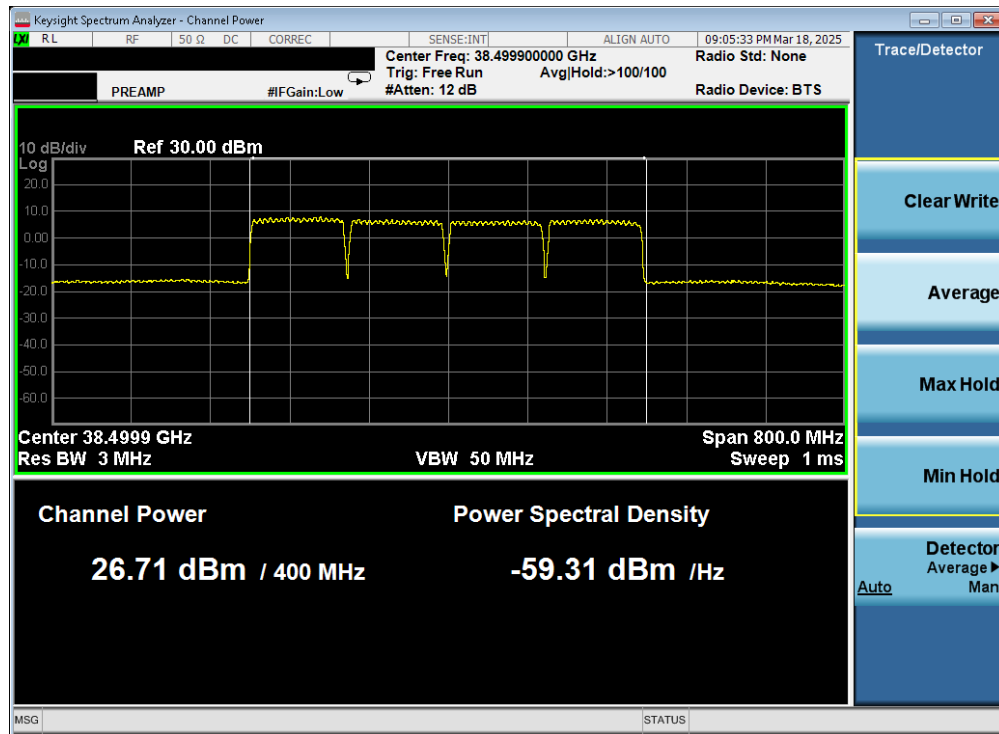


Plot 7-148. Ant1 EIRP Plot (Band 260 – 100MHz-2CC – DFT-s-OFDM QPSK – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-149. Ant1 EIRP Plot (Band 260 – 100MHz-3CC – DFT-s-OFDM QPSK – Mid Channel)



Plot 7-150. Ant1 EIRP Plot (Band 260 – 100MHz-4CC – DFT-s-OFDM $\pi/2$ BPSK – Mid Channel)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4 Radiated Spurious and Harmonic Emissions

§2.1051, §30.203

Test Overview

The spectrum is scanned from 30MHz to 100GHz for n258-R1, n258-R2, and n261. For n260, the spectrum is scanned from 30MHz to 200GHz. All out of band emissions are measured in a radiated test setup while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All modulations were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The conductive power or total radiated power of any emissions outside a licensee's frequency block shall be -13dBm/1MHz.

Test Procedure Used

ANSI C63.26-2015 Section 5.7.4

KDB 842590 D01 v01r03 Section 4.4.3

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 100 GHz for n258/n261 and 200GHz for n260. Several plots are used to show investigations in this entire span.
2. Detector = RMS
3. Trace mode = trace average
4. Sweep time = auto couple
5. Number of sweep points $\geq 2 \times \text{Span/RBW}$
6. The trace was allowed to stabilize
7. RBW = 1MHz, VBW = 3MHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) All radiated spurious emissions were measured as EIRP to compare with the §30.203 TRP limits. Emissions that were found to be non-compliant using the EIRP method were re-measured using the Spherical Grid TRP Method per KDB 842590.
- 3) The plots in this section were taken with the analyzer set to max hold. All final measurements shown in the tables that accompany the plots were taken with trace averaging performed over 100 sweeps while the analyzer was triggering on a specific emission of interest.
- 4) Elements within the same antenna array are correlated to produce beamforming array gain. Antenna arrays cannot be correlated with another antenna array. During testing, only one antenna array was active.

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- 5) The plots from 1-200GHz show corrected average EIRP levels. The average EIRP reported below is calculated per section 5.2.7 of ANSI C63.26-2015 which states: $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m. The field strength E is calculated $E (dB\mu V/m) = \text{Spectrum Analyzer Level (dBm)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + \text{Harmonic Mixer Conversion Loss (dB)} + 107$. All appropriate Antenna Factor and Cable Loss have been applied in the spectrum analyzer for each measurement. For measurements > 40GHz, Harmonic Mixer Conversion Loss was also applied to the spectrum analyzer.
- 6) Emissions below 18GHz were measured at a 3 meter test distance, while emissions above 18GHz were measured at the appropriate far field distance. The far field of the mmWave signal is based on formula: $R > 2D^2/\text{wavelength}$, where D is the larger between the dimension of the measurement antenna and the transmitting antenna of the EUT. In this case, D is the largest dimension of the measurement antenna.

Frequency Range (GHz)	Wavelength (cm)	Far Field Distance (m)	Measurement Distance (m)
18-40	0.749	0.54	1.00
40-60	0.500	1.92	2.00
60-90	0.333	1.56	2.00
90-140	0.214	0.82	1.00
140-200	0.150	0.27	1.00

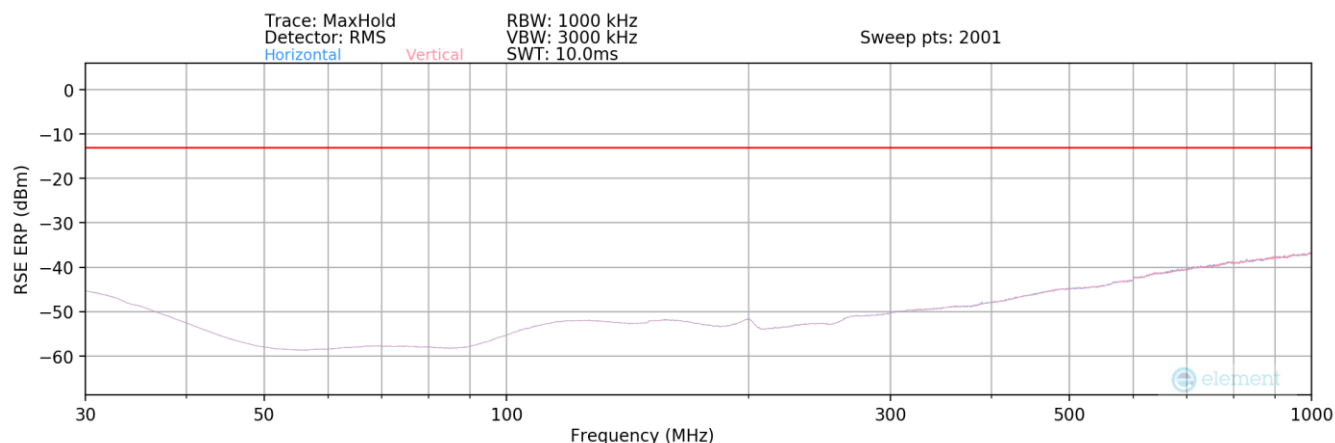
Table 7-14. Far-Field Distance & Measurement Distance per Frequency Range

- 7) All emissions from 30MHz - 40GHz were measured using a spectrum analyzer with an internal preamplifier. Emissions >40GHz were measured using a harmonic mixer with the spectrum analyzer.
- 8) All RSE's were measured with 1CC. It was determined that adding more CC's causes the overall amplitude of just 1CC to decrease, therefore, 1CC is the worst case for the purposes of spurious emissions measurements.
- 9) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 10) All RSE's were investigated in EN-DC mode and with 802.11 chipset active. It was determined that there is no new emission introduced by EN-DC mode, or the 802.11 chipset. For EN-DC mode, n261 uses LTE B2, B5, B12, B13, B48 and B66, n260 uses LTE B2, B5, B12, B13, B14, B30, B48 and B66 and n258 uses LTE B2, B5, B12, B66, and B71.
- 11) Additionally, this device supports anchor bands operating in FR1 spectrum. The n261 band uses NR Bands n2, n5, n25, n41, n48, n66, n71 and n77. The n260 band uses NR Bands n2, n5, n14, n25, n30, n41, n48, n66, n71 and n77. The n258 band uses NR Bands NR n25, n41, n66 and n77 as anchor bands.
- 12) LTE and and FR1 anchor bands supports default configuration and Tx hopping configuration. Both configurations were investigated. There was no discernible difference in the spurious emission levels when using different LTE and NR FR1 anchor bands. Thus, FR1 Band n12 was used as a representative anchor band for EN-DC and NR-DC investigations.

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Band n258-R1 – Ant 1

30MHz - 1GHz



Plot 7-151. n258-R1 Radiated Spurious Plot (EN-DC Anchor LTE Band 66)

Spurious Emissions ERP Sample Calculation (n258-R1)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE ERP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

$$\text{RSE ERP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 - 2.15 \text{ (dB)}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
547.00	Low	50	2Tx	QPSK	V	-	-	-53.20	-13.00	-40.20
497.00	Mid	50	2Tx	QPSK	V	-	-	-53.45	-13.00	-40.45
612.00	High	50	2Tx	QPSK	V	-	-	-52.17	-13.00	-39.17

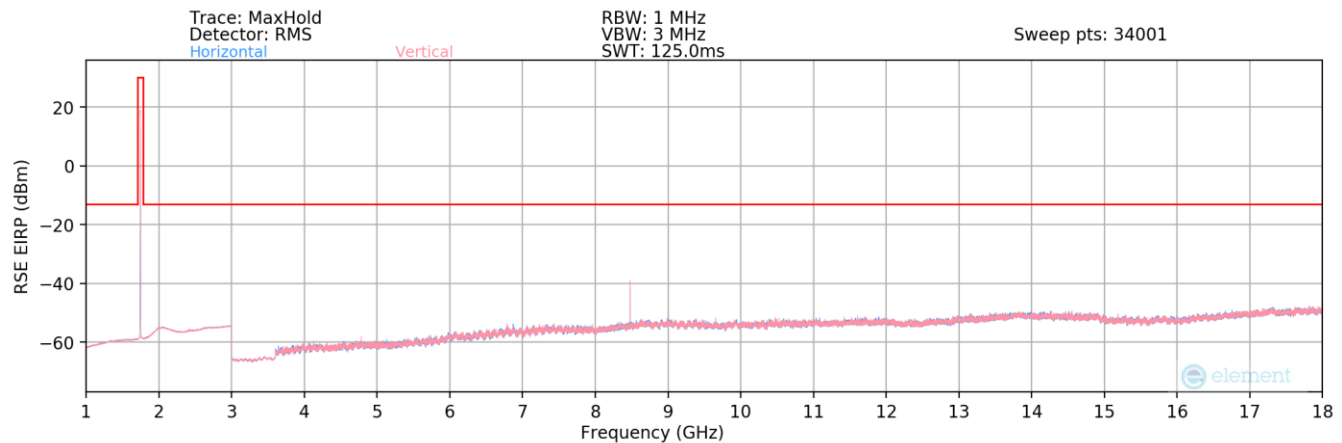
Table 7-15. n258-R1 Radiated Spurious Emissions Table (30MHz - 1GHz)

Notes

The RSE ERP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

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1GHz - 18GHz



Plot 7-152. n258-R1 Radiated Spurious Plot (EN-DC Anchor LTE Band 66)

Spurious Emissions EIRP Sample Calculation (n258-R1)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
8403.60	Low	50	2Tx	QPSK	V	141	341	-39.34	-13.00	-26.34
14445.00	Low	50	2Tx	QPSK	V	-	-	-54.74	-13.00	-41.74
8478.50	Mid	50	2Tx	QPSK	V	135	342	-39.94	-13.00	-26.94
10470.00	Mid	50	2Tx	QPSK	V	-	-	-56.94	-13.00	-43.94
8553.70	High	50	2Tx	QPSK	V	241	305	-38.54	-13.00	-25.54
12330.00	High	50	2Tx	QPSK	V	-	-	-56.77	-13.00	-43.77

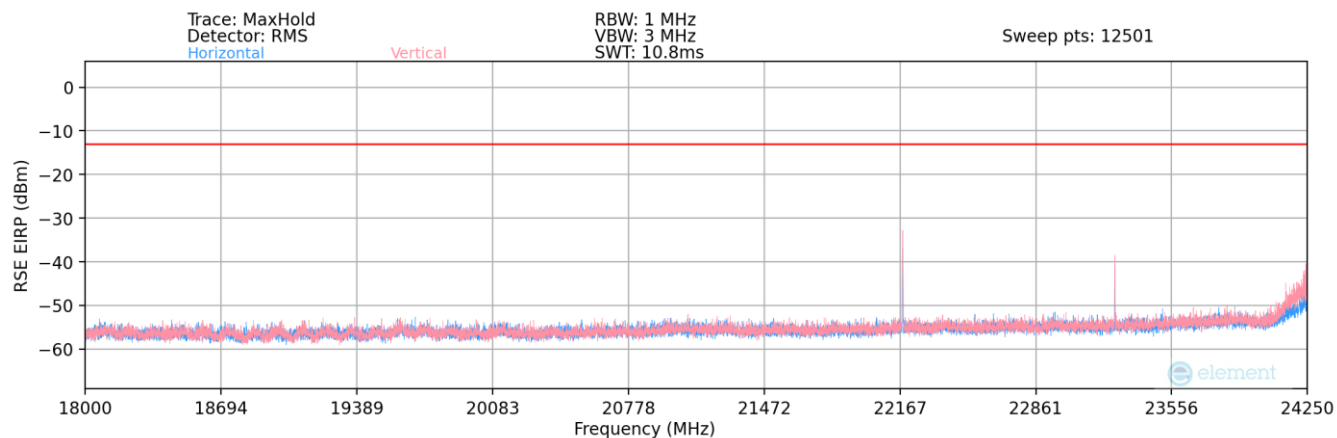
Table 7-16. n258-R1 Radiated Spurious Emissions Table (1GHz - 18GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a test distance of 3 meter.

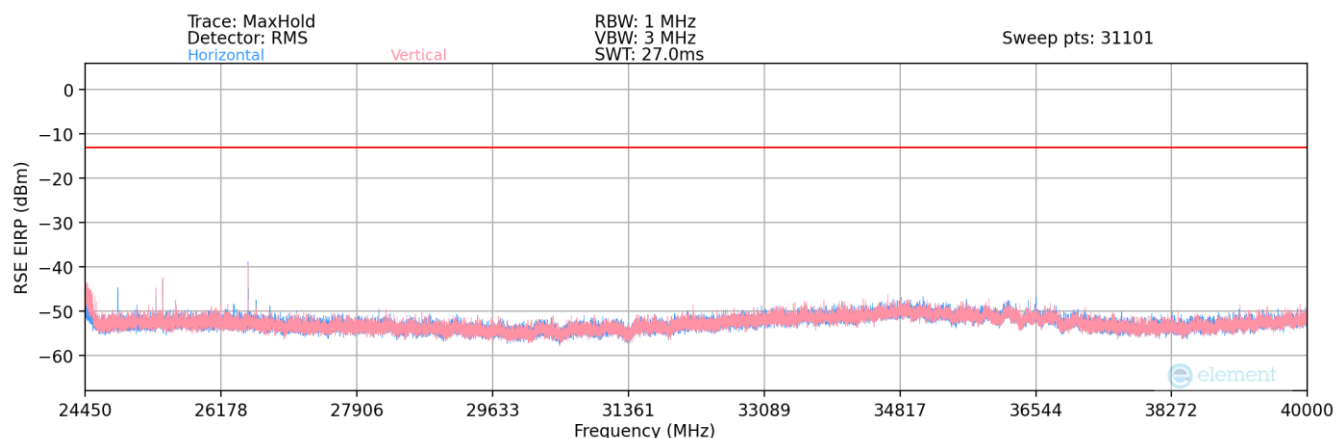
FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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18GHz-24.25GHz



Plot 7-153. n258-R1 Radiated Spurious Plot

24.45GHz-40GHz



Plot 7-154. n258-R1 Radiated Spurious Plot

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 111 of 194

Spurious Emissions EIRP Sample Calculation (n258-R1)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 2 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
22408.00	Low	50	2Tx	QPSK	V	150	8	-54.24	-13.00	-41.24
23340.00	Low	50	2Tx	QPSK	V	150	360	-45.00	-13.00	-32.00
25211.40	Low	50	2Tx	QPSK	V	150	200	-46.74	-13.00	-33.74
26148.00	Low	50	2Tx	QPSK	V	150	190	-46.52	-13.00	-33.52
22180.70	Mid	50	2Tx	QPSK	V	150	313	-35.95	-13.00	-22.95
23265.70	Mid	50	2Tx	QPSK	V	150	186	-39.82	-13.00	-26.82
25435.60	Mid	50	2Tx	QPSK	V	150	10	-51.10	-13.00	-38.10
26522.30	Mid	50	2Tx	QPSK	H	150	360	-55.84	-13.00	-42.84
21956.00	High	50	2Tx	QPSK	V	150	326	-49.39	-13.00	-36.39
23192.00	High	50	2Tx	QPSK	V	150	302	-40.70	-13.00	-27.70
25662.00	High	50	2Tx	QPSK	V	150	329	-46.57	-13.00	-33.57
26896.00	High	50	2Tx	QPSK	V	150	321	-46.32	-13.00	-33.32

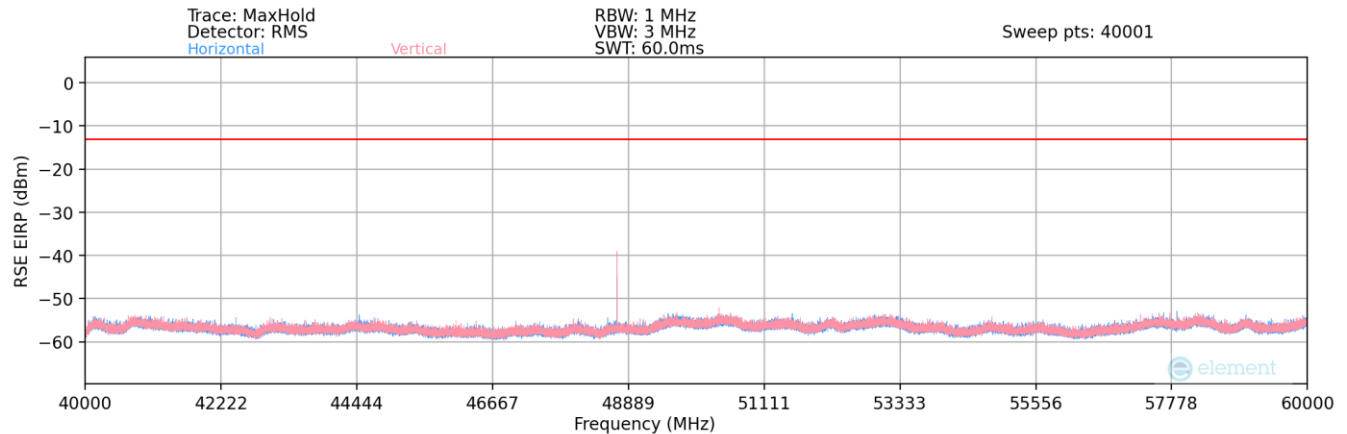
Table 7-17. n258-R1 Radiated Spurious Emissions Table (18GHz - 40GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a test distance of 2 meter.

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40GHz - 60GHz



Plot 7-155. n258-R1 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n258-R1)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 2 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
48551.20	Low	50	2Tx	QPSK	V	30	98	-42.03	-13.00	-29.03
48700.08	Mid	50	2Tx	QPSK	V	3	31	-31.90	-13.00	-18.90
48850.90	High	50	2Tx	QPSK	V	115	68	-35.84	-13.00	-22.84

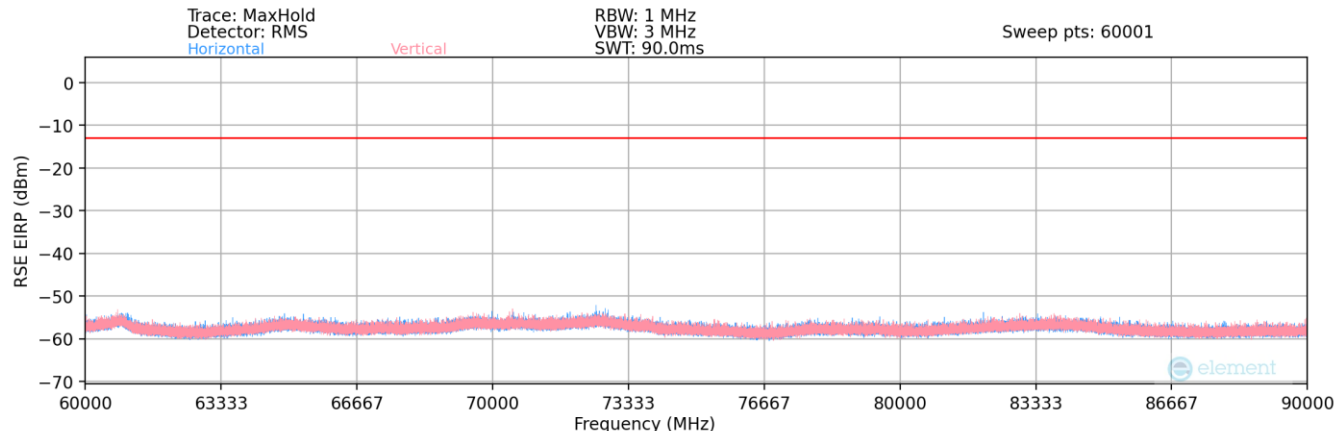
Table 7-18. n258-R1 Radiated Spurious Emissions Table (40GHz - 60GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 2 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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60GHz - 90GHz



Plot 7-156. n258-R1 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n258-R1)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 2 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
72827.10	Low	50	2Tx	QPSK	V	44	60	-59.40	-13.00	-46.40
73051.90	Mid	50	2Tx	QPSK	V	48	66	-58.79	-13.00	-45.79
73276.70	High	50	2Tx	QPSK	V	48	68	-59.55	-13.00	-46.55

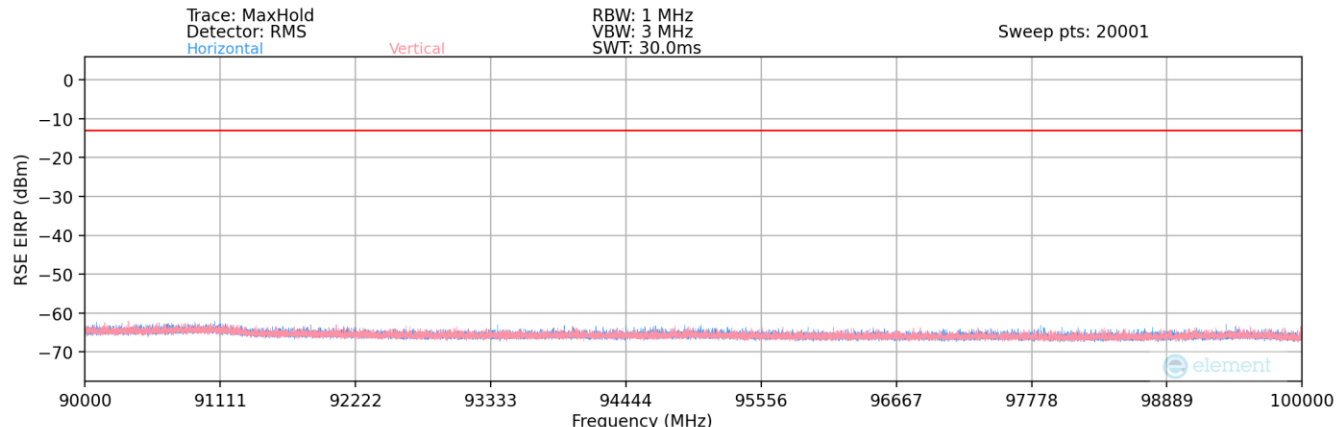
Table 7-19. n258-R1 Radiated Spurious Emissions Table (60GHz - 90GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 2 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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90GHz - 100GHz



Plot 7-157. n258-R1 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n258-R1)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
97100.90	Low	50	2Tx	QPSK	V	-	-	-71.31	-13.00	-58.31
97400.00	Mid	50	2Tx	QPSK	V	-	-	-71.19	-13.00	-58.19
97700.00	High	50	2Tx	QPSK	V	-	-	-71.50	-13.00	-58.50

Table 7-20. n258-R1 Radiated Spurious Emissions table (90GHz-100GHz)

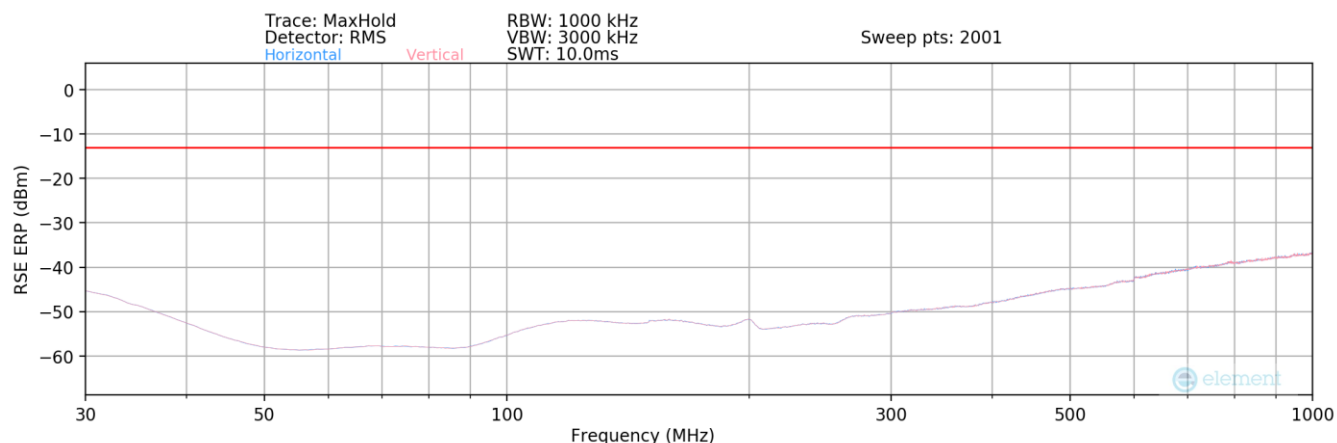
Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Band n258-R2 – Ant 1

30MHz - 1GHz



Plot 7-158. n258-R2 Radiated Spurious Plot (EN-DC Anchor LTE Band 66)

Spurious Emissions ERP Sample Calculation (n258-R2)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE ERP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

$$\text{RSE ERP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 - 2.15 \text{ (dB)}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
35.00	Low	50	2Tx	QPSK	V	-	-	-56.39	-13.00	-43.39
64.00	Mid	50	2Tx	QPSK	V	-	-	-65.72	-13.00	-52.72
103.00	High	50	2Tx	QPSK	V	-	-	-61.95	-13.00	-48.95

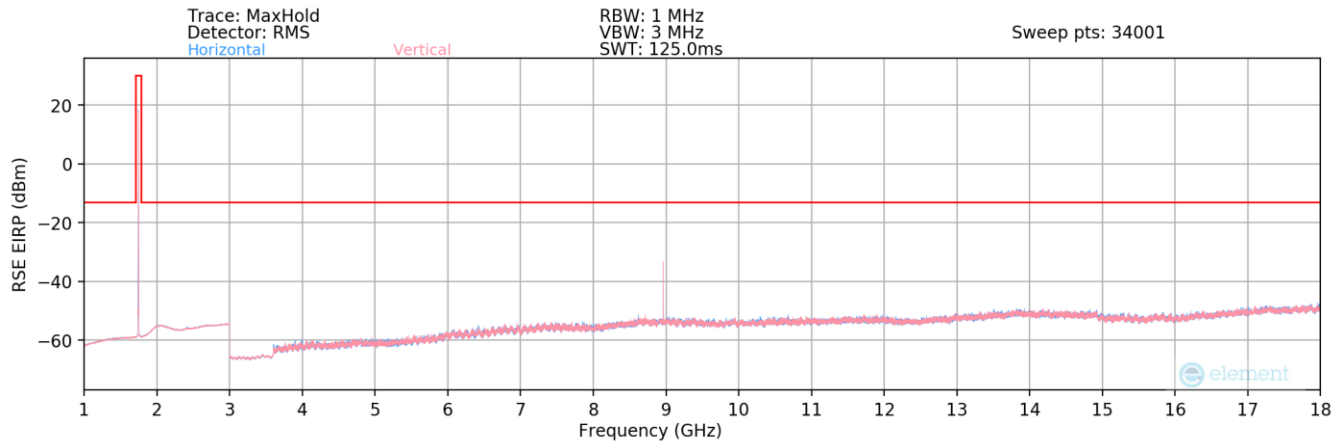
Table 7-21. n258-R2 Radiated Spurious Emissions Table (30MHz - 1GHz)

Notes

The RSE ERP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

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1GHz - 18GHz



Plot 7-159. n258-R2 Radiated Spurious Plot (EN-DC Anchor LTE Band 66)

Spurious Emissions EIRP Sample Calculation (n258-R2)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
8903.40	Low	50	2Tx	QPSK	V	139	312	-32.16	-13.00	-19.16
13001.00	Low	50	2Tx	QPSK	V	-	-	-55.11	-13.00	-42.11
8964.35	Mid	50	2Tx	QPSK	V	204	306	-33.33	-13.00	-20.33
11881.00	Mid	50	2Tx	QPSK	V	-	-	-56.46	-13.00	-43.46
9097.80	High	50	2Tx	QPSK	V	146	307	-32.08	-13.00	-19.08
12170.00	High	50	2Tx	QPSK	V	-	-	-56.96	-13.00	-43.96

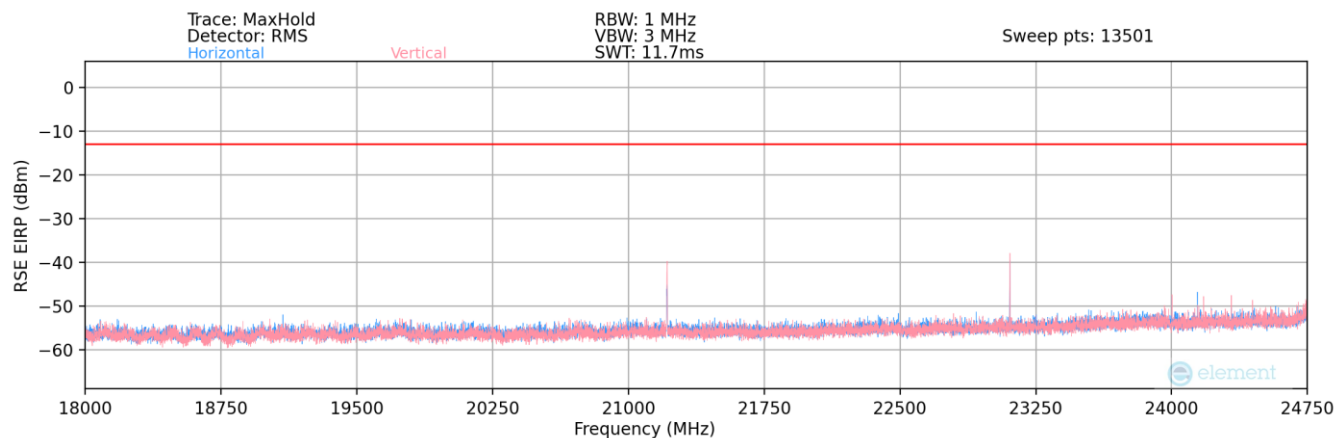
Table 7-22. n258-R2 Radiated Spurious Emissions Table (1GHz - 18GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a test distance of 3 meter.

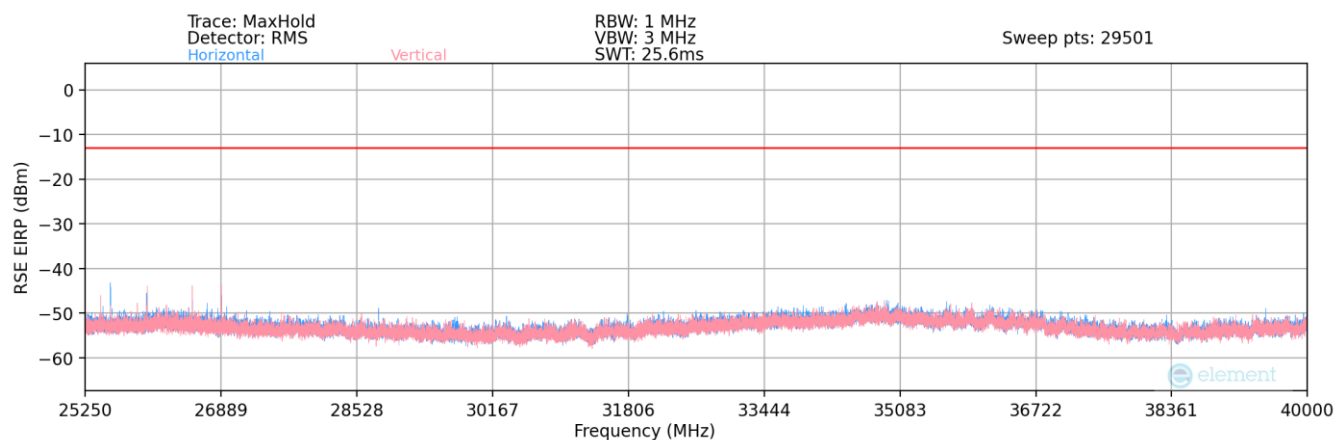
FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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18GHz-24.75GHz



Plot 7-160. n258-R2 Radiated Spurious Plot

25.25GHz-40GHz



Plot 7-161. n258-R2 Radiated Spurious Plot

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Spurious Emissions EIRP Sample Calculation (n258-R2)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
20905.50	Low	50	2Tx	QPSK	V	150	314	-49.38	-13.00	-36.38
22840.00	Low	50	2Tx	QPSK	V	150	230	-43.46	-13.00	-30.46
26711.40	Low	50	2Tx	QPSK	V	150	311	-48.96	-13.00	-35.96
21213.00	Mid	50	2Tx	QPSK	V	150	204	-48.22	-13.00	-35.22
23157.00	Mid	50	2Tx	QPSK	V	150	310	-43.78	-13.00	-30.78
26896.70	Mid	50	2Tx	QPSK	V	150	322	-54.52	-13.00	-41.52
21091.40	High	50	2Tx	QPSK	V	150	195	-48.73	-13.00	-35.73
23158.50	High	50	2Tx	QPSK	V	150	187	-44.42	-13.00	-31.42
26223.80	High	50	2Tx	QPSK	V	150	307	-51.71	-13.00	-38.71

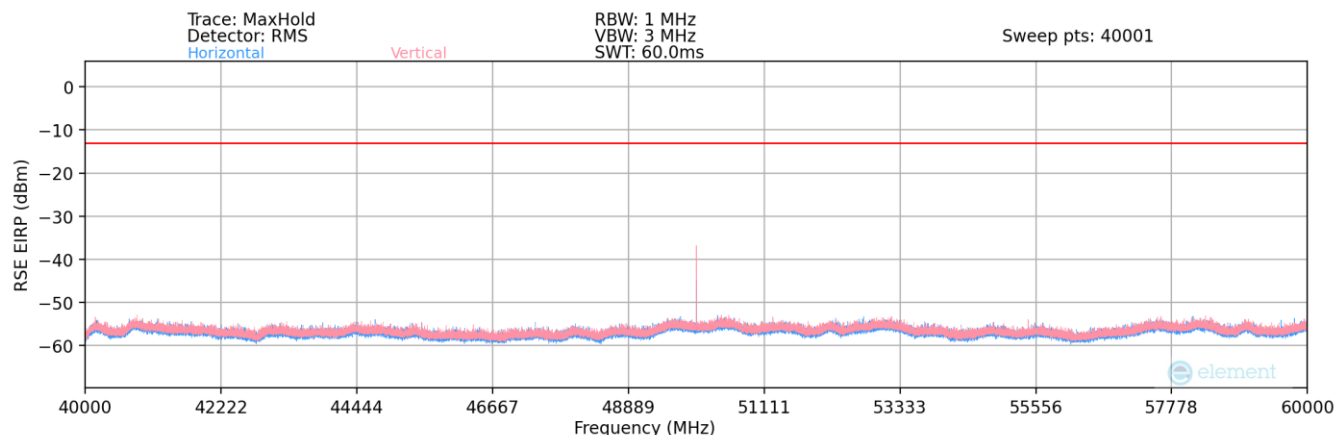
Table 7-23. n258-R2 Radiated Spurious Emissions Table (18GHz - 40GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a test distance of 1 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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40GHz - 60GHz



Plot 7-162. n258-R2 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n258-R2)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 2 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
49551.30	Low	50	2Tx	QPSK	V	66	294	-36.58	-13.00	-23.58
49999.52	Mid	50	2Tx	QPSK	V	76	295	-36.78	-13.00	-23.78
50451.00	High	50	2Tx	QPSK	V	68	292	-37.48	-13.00	-24.48

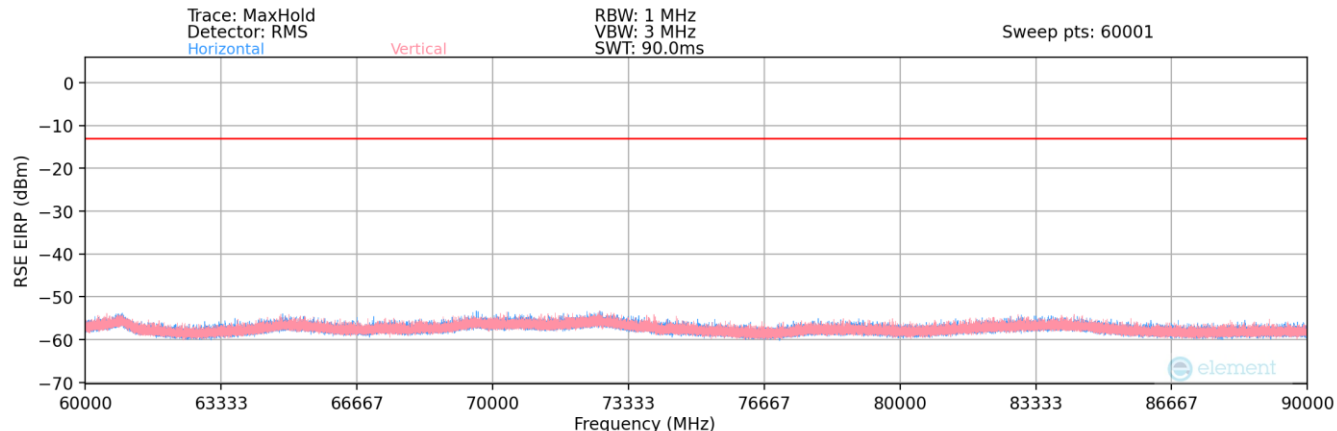
Table 7-24. n258-R2 Radiated Spurious Emissions Table (40GHz - 60GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 2 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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60GHz - 90GHz



Plot 7-163. n258-R2 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n258-R2)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 2 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
74326.80	Low	50	2Tx	QPSK	V	32	307	-59.62	-13.00	-46.62
75001.60	Mid	50	2Tx	QPSK	V	38	300	-62.59	-13.00	-49.59
75676.60	High	50	2Tx	QPSK	V	28	307	-61.84	-13.00	-48.84

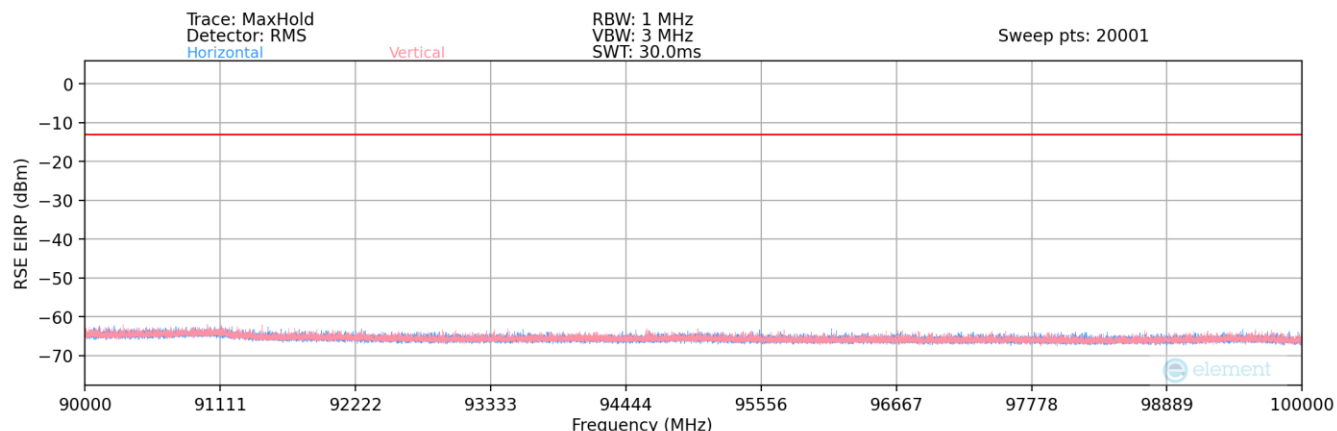
Table 7-25. n258-R2 Radiated Spurious Emissions Table (60GHz - 90GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 2 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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90GHz - 100GHz



Plot 7-164. n258-R2 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n258-R2)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 + \text{Harmonic Mixer Conversion Loss [dB]}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
99100.00	Low	50	2Tx	QPSK	V	-	-	-71.24	-13.00	-58.24
99999.80	Mid	50	2Tx	QPSK	V	-	-	-71.69	-13.00	-58.69
100000.00	High	50	2Tx	QPSK	V	-	-	-71.46	-13.00	-58.46

Table 7-26. n258-R2 Radiated Spurious Emissions table (90GHz-100GHz)

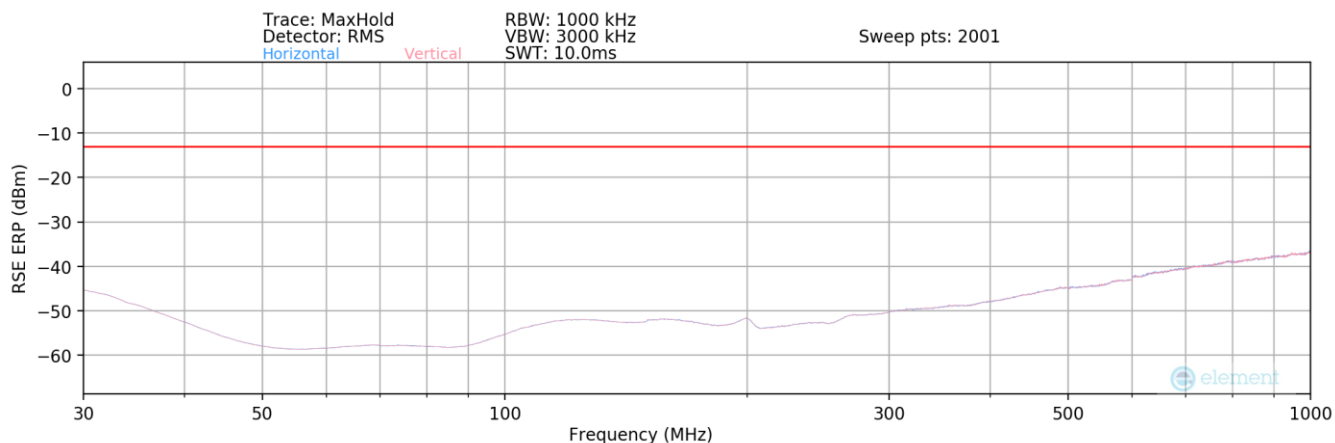
Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Band n261 – Ant 1

30MHz - 1GHz



Plot 7-165. n261 Radiated Spurious Plot (EN-DC Anchor LTE Band 66)

Spurious Emissions ERP Sample Calculation (n261)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE ERP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

$$\text{RSE ERP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 - 2.15 \text{ (dB)}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
52.00	Low	50	2Tx	QPSK	H	-	-	-65.97	-13.00	-52.97
89.00	Mid	50	2Tx	QPSK	H	-	-	-65.58	-13.00	-52.58
106.00	High	50	2Tx	QPSK	H	-	-	-61.32	-13.00	-48.32

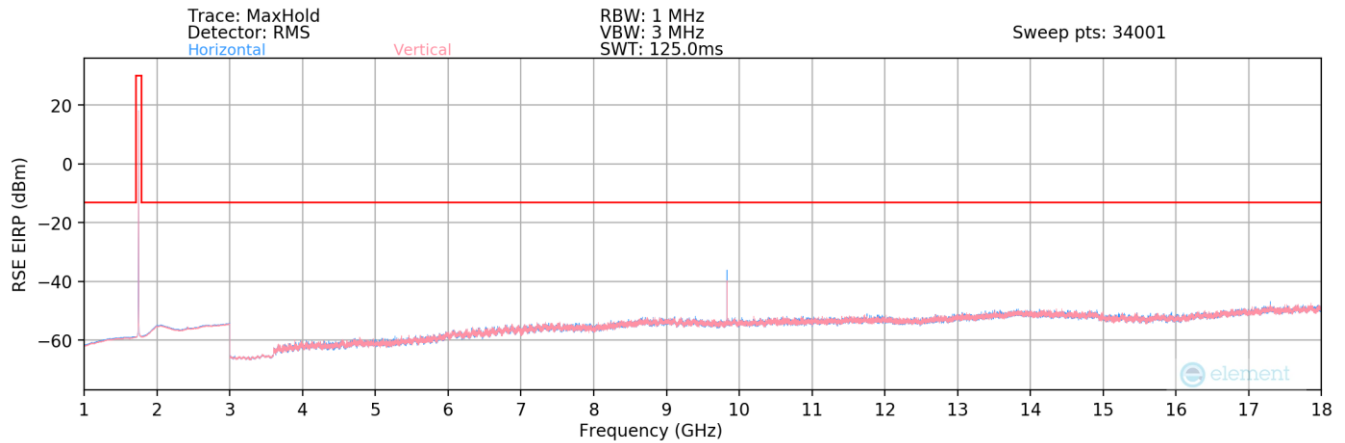
Table 7-27. n261 Radiated Spurious Emissions Table (30MHz - 1GHz)

Notes

The RSE ERP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

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1GHz - 18GHz



Plot 7-166. n261 Radiated Spurious Plot (EN-DC Anchor LTE Band 66)

Spurious Emissions EIRP Sample Calculation (n261)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
9784.70	Low	50	2Tx	QPSK	H	122	5	-36.91	-13.00	-23.91
11883.00	Low	50	2Tx	QPSK	H	-	-	-56.66	-13.00	-43.66
9831.40	Mid	50	2Tx	QPSK	H	130	8	-36.58	-13.00	-23.58
17192.00	Mid	50	2Tx	QPSK	H	-	-	-53.45	-13.00	-40.45
8972.00	High	50	2Tx	QPSK	H	283	320	-35.86	-13.00	-22.86
13115.00	High	50	2Tx	QPSK	H	-	-	-55.77	-13.00	-42.77

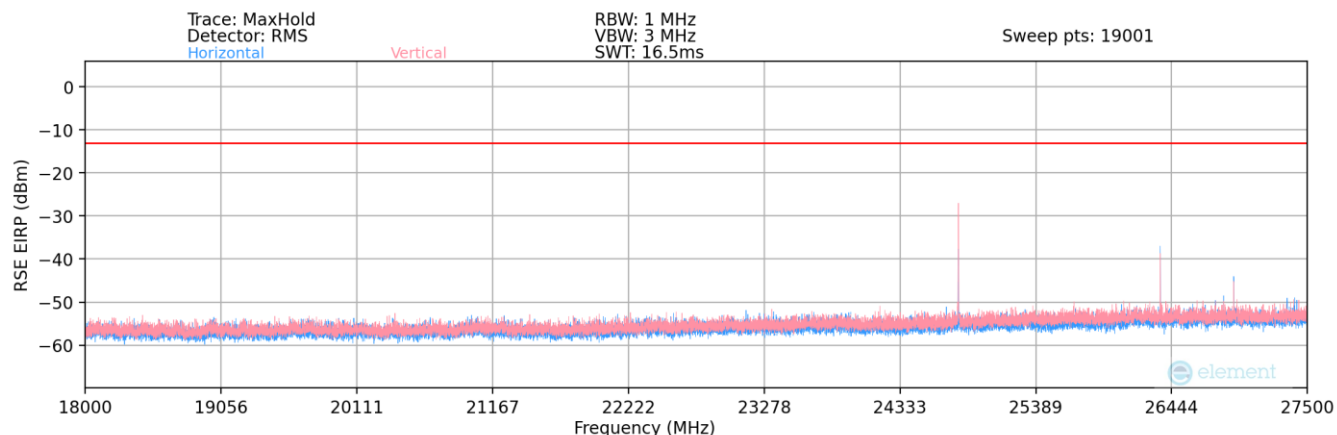
Table 7-28. n261 Radiated Spurious Emissions Table (1GHz - 18GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a test distance of 3 meter.

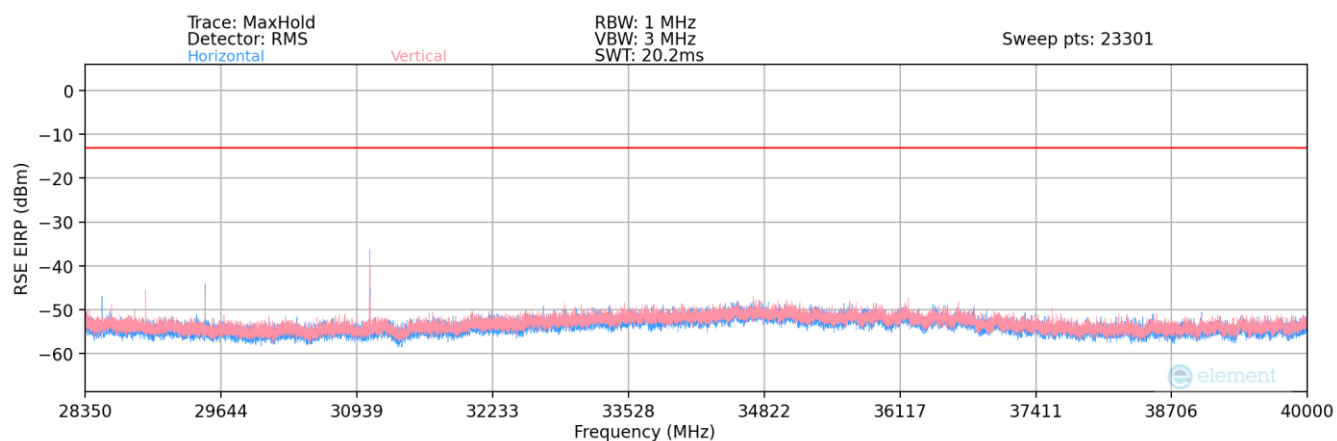
FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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18GHz-27.5GHz



Plot 7-167. n261 Radiated Spurious Plot

28.35GHz-40GHz



Plot 7-168. n261 Radiated Spurious Plot

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2502210015-15.A3L	Test Dates: 3/7/2025 – 4/15/2025	EUT Type: Portable Handset	Page 125 of 194

Spurious Emissions EIRP Sample Calculation (n261)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
23867.80	Low	50	2Tx	QPSK	V	150	302	-36.45	-13.00	-23.45
25696.00	Low	50	2Tx	QPSK	H	150	283	-45.73	-13.00	-32.73
31184.00	Low	50	2Tx	QPSK	H	150	35	-46.35	-13.00	-33.35
24788.70	Mid	50	2Tx	QPSK	V	150	25	-30.67	-13.00	-17.67
26356.00	Mid	50	2Tx	QPSK	H	150	288	-39.97	-13.00	-26.97
26928.00	Mid	50	2Tx	QPSK	H	150	290	-47.23	-13.00	-34.23
28021.00	Mid	50	2Tx	QPSK	H	150	299	-39.89	-13.00	-26.89
31063.00	Mid	50	2Tx	QPSK	H	150	288	-40.80	-13.00	-27.80
25506.50	High	50	2Tx	QPSK	V	150	16	-40.67	-13.00	-27.67
26917.00	High	50	2Tx	QPSK	H	150	288	-46.38	-13.00	-33.38
31143.00	High	50	2Tx	QPSK	H	150	290	-42.96	-13.00	-29.96

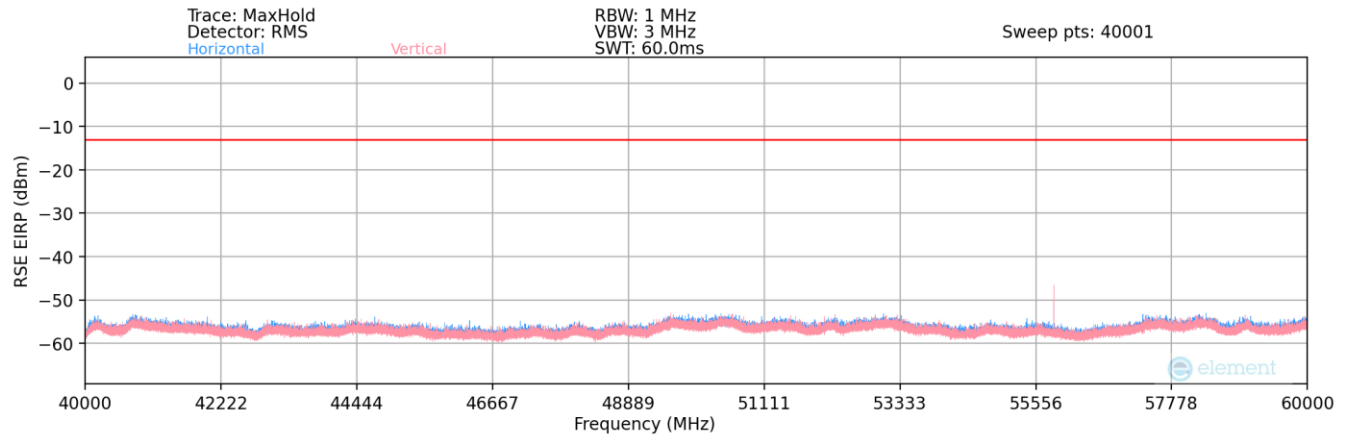
Table 7-29. n261 Radiated Spurious Emissions Table (18GHz - 40GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a test distance of 1 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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40GHz - 60GHz



Plot 7-169. n261 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n261)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 2 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
55051.48	Low	50	2Tx	QPSK	V	49	75	-45.32	-13.00	-32.32
55851.40	Mid	50	2Tx	QPSK	V	52	72	-38.15	-13.00	-25.15
56651.40	High	50	2Tx	QPSK	V	53	75	-42.35	-13.00	-29.35

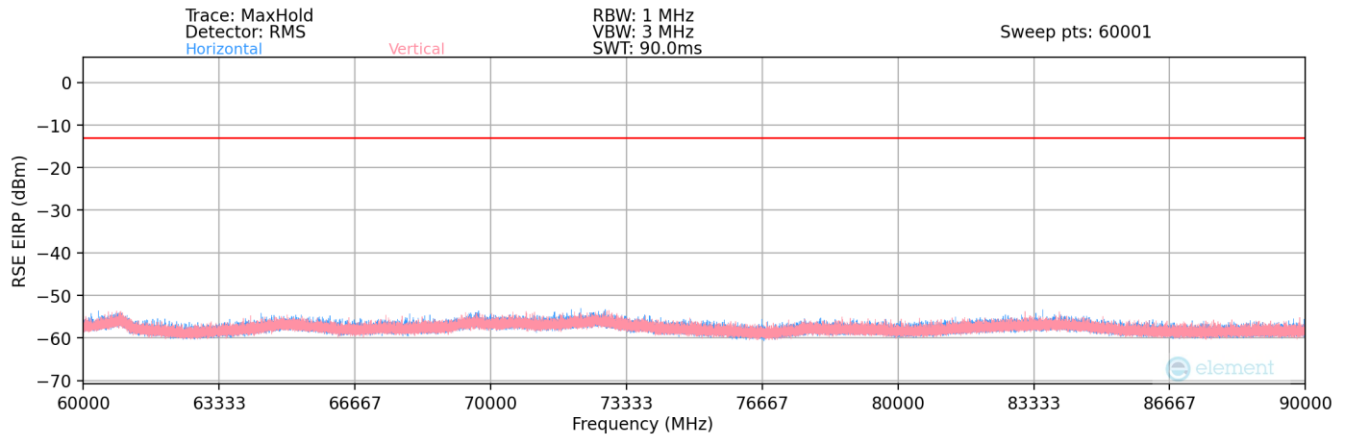
Table 7-30. n261 Radiated Spurious Emissions Table (40GHz - 60GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 2 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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60GHz - 90GHz



Plot 7-170. n261 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n261)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 2 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
83767.40	Low	50	2Tx	QPSK	V	-	-	-61.72	-13.00	-48.72
83776.50	Mid	50	2Tx	QPSK	V	39	94	-61.09	-13.00	-48.09
84975.90	High	50	2Tx	QPSK	V	41	104	-60.27	-13.00	-47.27

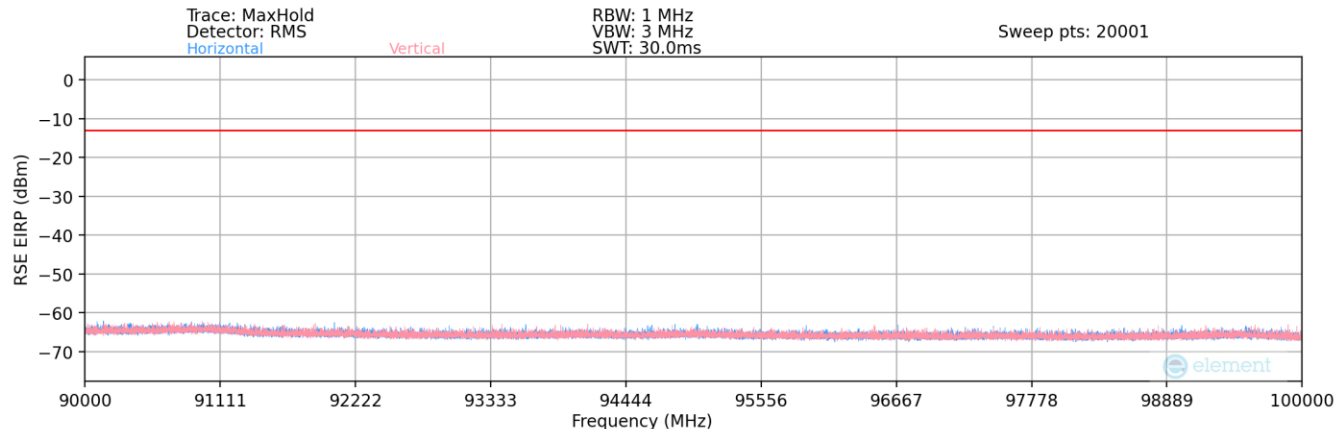
Table 7-31. n261 Radiated Spurious Emissions Table (60GHz - 90GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a test distance of 2 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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90GHz - 100GHz



Plot 7-171. n261 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n261)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
91320.00	Low	50	2Tx	QPSK	V	-	-	-70.43	-13.00	-57.43
94798.00	Mid	50	2Tx	QPSK	V	-	-	-71.02	-13.00	-58.02
98888.00	High	50	2Tx	QPSK	V	-	-	-71.33	-13.00	-58.33

Table 7-32. n261 Radiated Spurious Emissions Table (90GHz - 100GHz)

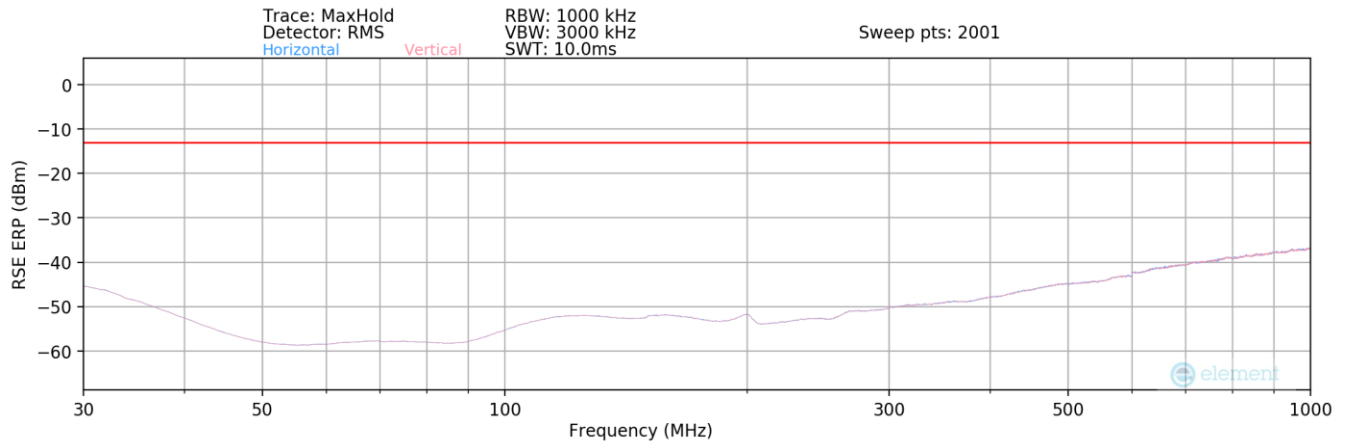
Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a test distance of 1 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Band n260 – Ant 1

30MHz - 1GHz



Plot 7-172. n260 Radiated Spurious Plot (EN-DC Anchor LTE Band 66)

Spurious Emissions ERP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE ERP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

$$\text{RSE ERP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 - 2.15 \text{ (dB)}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
253.00	Low	50	2Tx	QPSK	V	-	-	-60.90	-13.00	-47.90
322.00	Mid	50	2Tx	QPSK	V	-	-	-58.04	-13.00	-45.04
411.00	High	50	2Tx	QPSK	V	-	-	-55.88	-13.00	-42.88

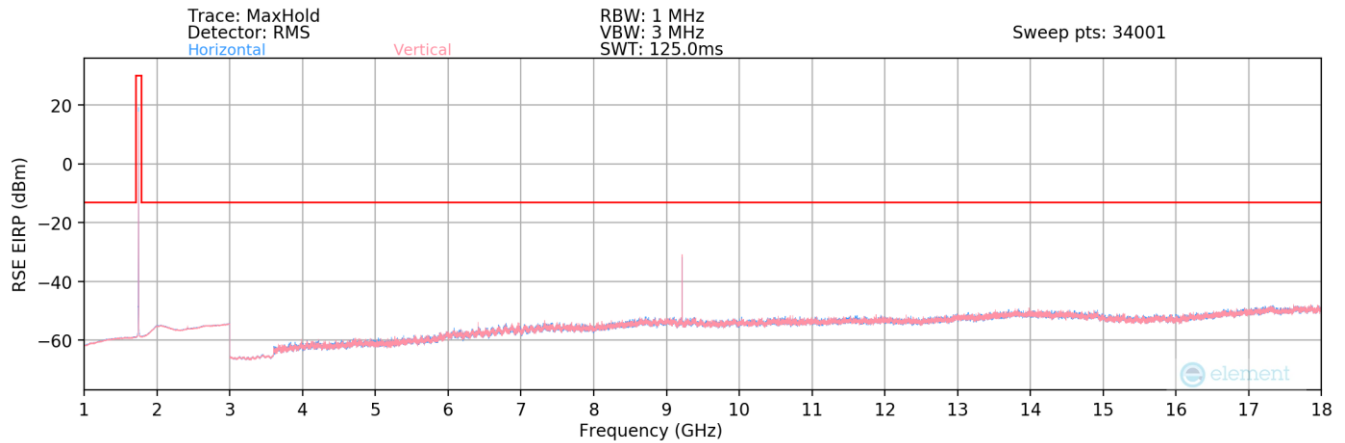
Table 7-33. n260 Radiated Spurious Emissions Table (30MHz - 1GHz)

Notes

The RSE ERP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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1GHz - 18GHz



Plot 7-173. n260 Radiated Spurious Plot (EN-DC Anchor LTE Band 66)

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
8353.50	Low	50	2Tx	QPSK	V	129	339	-38.81	-13.00	-25.81
10455.00	Low	50	2Tx	QPSK	V	-	-	-56.94	-13.00	-43.94
6250.00	Mid	50	2Tx	QPSK	V	-	-	-60.78	-13.00	-47.78
9214.50	Mid	50	2Tx	QPSK	V	250	15	-30.74	-13.00	-17.74
8794.50	High	50	2Tx	QPSK	V	275	309	-36.61	-13.00	-23.61
13992.00	High	50	2Tx	QPSK	V	-	-	-95.49	-13.00	-82.49

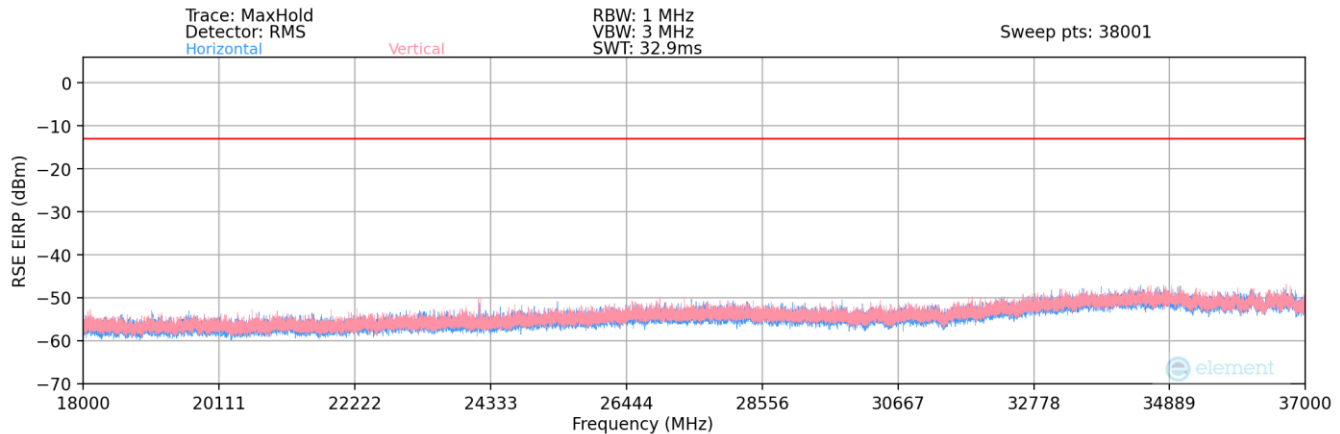
Table 7-34. n260 Radiated Spurious Emissions Table (1GHz - 18GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a test distance of 3 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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18GHz-37GHz



Plot 7-174. n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
25206.00	Low	50	2Tx	QPSK	V	-	-	-49.71	-13.00	-36.71
28780.00	Low	50	2Tx	QPSK	V	-	-	-58.74	-13.00	-45.74
24176.60	Mid	50	2Tx	QPSK	V	150	143	-54.53	-13.00	-41.53
32665.00	Mid	50	2Tx	QPSK	V	-	-	-47.69	-13.00	-34.69
24176.70	High	50	2Tx	QPSK	V	150	305	-50.18	-13.00	-37.18
34817.00	High	50	2Tx	QPSK	V	-	-	-54.08	-13.00	-41.08

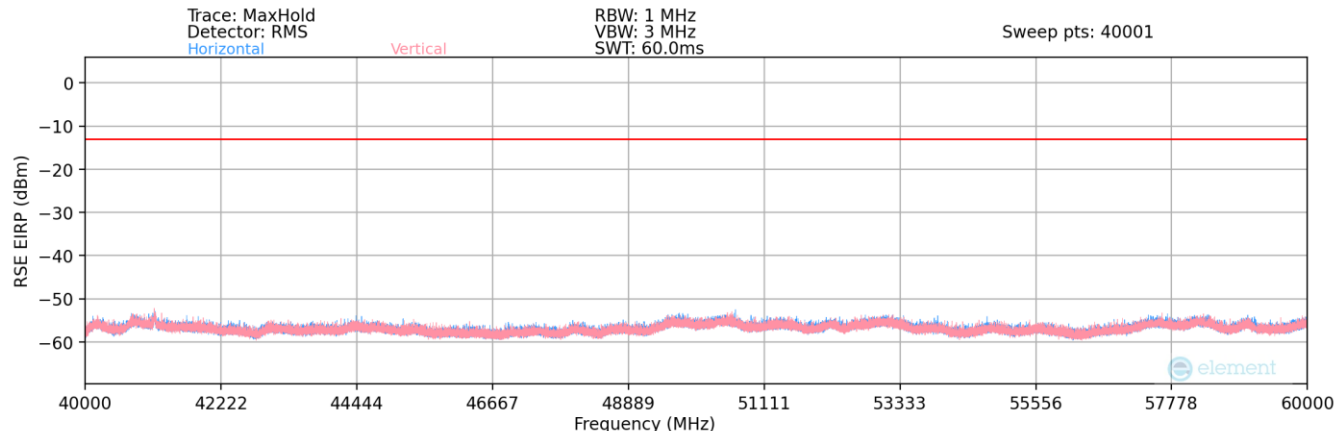
Table 7-35. n260 Radiated Spurious Emissions Table (18GHz - 37GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a test distance of 1 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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40GHz - 60GHz



Plot 7-175. n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 2 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
49806.50	Low	50	2Tx	QPSK	V	33	85	-50.98	-13.00	-37.98
50894.00	Mid	50	2Tx	QPSK	V	36	82	-54.50	-13.00	-41.50
52861.70	High	50	2Tx	QPSK	V	45	90	-56.62	-13.00	-43.62

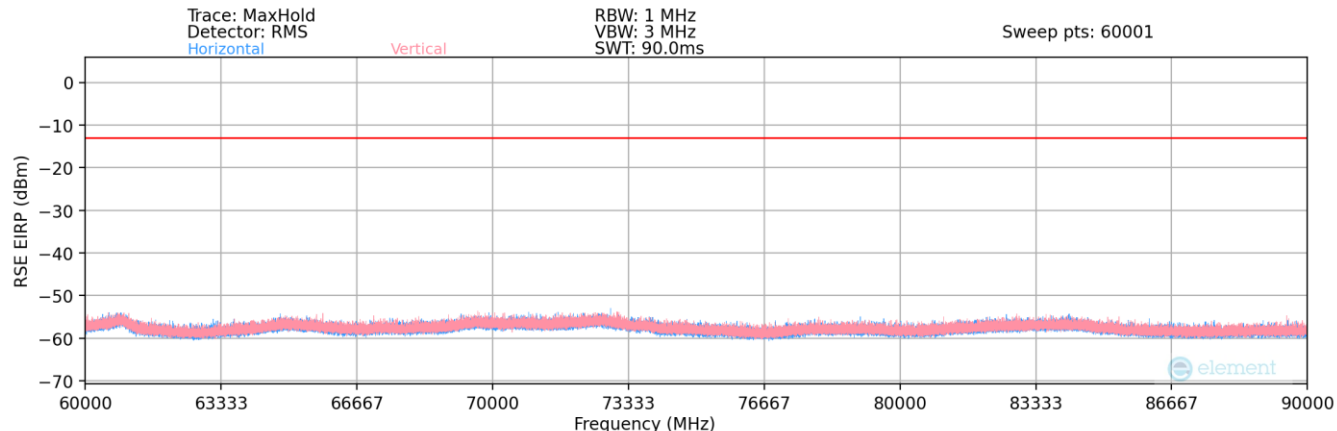
Table 7-36. n260 Radiated Spurious Emissions Table (40GHz - 60GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 2 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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60GHz - 90GHz



Plot 7-176. n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 2 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
74050.10	Low	50	2Tx	QPSK	V	-	-	-62.53	-13.00	-49.53
77001.90	Mid	50	2Tx	QPSK	V	-	-	-63.64	-13.00	-50.64
79971.10	High	50	2Tx	QPSK	V	-	-	-63.19	-13.00	-50.19

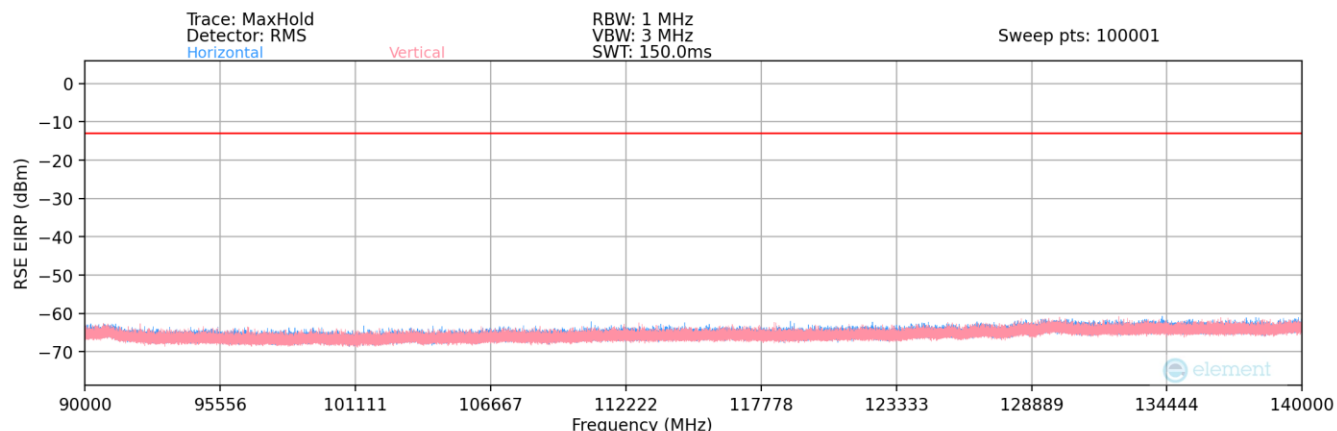
Table 7-37. n260 Radiated Spurious Emissions Table (60GHz - 90GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a test distance of 2 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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90GHz - 140GHz



Plot 7-177. n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
111075.00	Low	50	2Tx	QPSK	V	-	-	-70.70	-13.00	-57.70
115490.60	Mid	50	2Tx	QPSK	V	-	-	-70.19	-13.00	-57.19
119925.00	High	50	2Tx	QPSK	V	-	-	-70.36	-13.00	-57.36

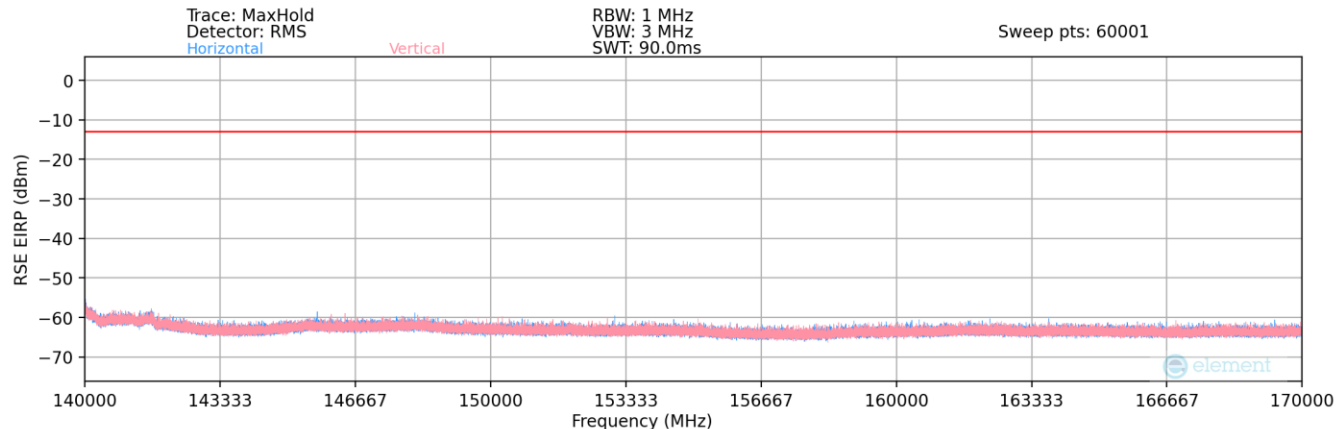
Table 7-38. n260 Radiated Spurious Emissions Table (90GHz - 140GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a test distance of 1 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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140GHz - 170GHz



Plot 7-178. n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
148102.50	Low	50	2Tx	QPSK	V	-	-	-64.58	-13.00	-51.58
154000.00	Mid	50	2Tx	QPSK	V	-	-	-65.99	-13.00	-52.99
159900.00	High	50	2Tx	QPSK	V	-	-	-66.14	-13.00	-53.14

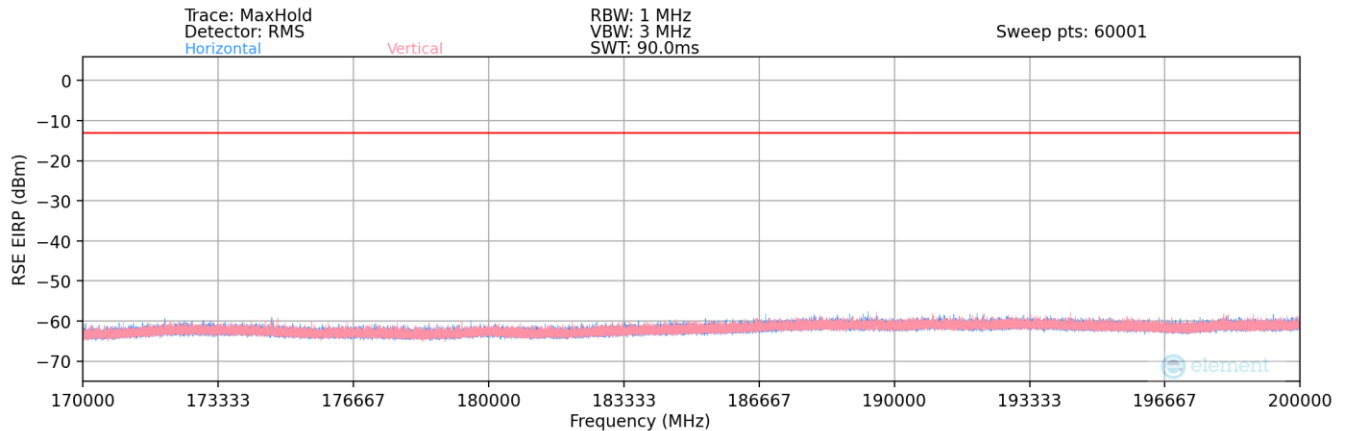
Table 7-39. n260 Radiated Spurious Emissions Table (140GHz - 170GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a test distance of 1 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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170GHz - 200GHz



Plot 7-179. n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 + \text{Harmonic Mixer Conversion Loss [dB]}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
185138.70	Low	50	2Tx	QPSK	V	-	-	-67.03	-13.00	-54.03
192508.00	Mid	50	2Tx	QPSK	V	-	-	-66.03	-13.00	-53.03
199875.00	High	50	2Tx	QPSK	V	-	-	-66.04	-13.00	-53.04

Table 7-40. n260 Radiated Spurious Emissions Table (170GHz - 200GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a test distance of 1 meter.

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.5 Band Edge Emissions

§2.1051, §30.203

Test Overview

All out of band emissions are measured in a radiated setup while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All modulations were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is -13dBm/1MHz. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be -5 dBm/MHz or lower.

In the 23.6 - 24GHz band, the maximum radiated power limit for a mobile device is -35dBW/200MHz per the Phase 2 limits specified in 30.203(d)(2).

Test Procedure Used

ANSI C63.26-2015 Section 5 and ANSI C63.26-2015 Section 6.4
KDB 842590 D01 v01r03 Section 4.4.2.4

Test Settings

1. Start and stop frequency were set such that both upper and lower band edges are measured.
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 1MHz
4. VBW $\geq 3 \times$ RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times$ Span/RBW
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.
- 2) Band Edge emissions were measured at a 1 meter distance.
- 3) The spectrum analyzer for each measurement shows an offset value that was determined using the measurement antenna factor, cable loss, far field measurement distance. A sample calculation is shown on the following page.
- 4) This device supports transmission of H-polarized and V-polarized beams from the antenna array in both CP-OFDM and DFT-s-OFDM transmission schemes. SISO and MIMO operation is also supported for some configurations. As part of the testing, all modes were fully investigated and only the worst case has been included in this report.

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- 5) All combinations of 1CC, 2CC, 3CC, and 4CC were fully investigated, and only the worst case has been included in this report.
- 6) All 2CC, 3CC, and 4CC cases were investigated with PCC prioritization feature, which has the higher power PCC at the band edge for the worst case.
- 7) Unless otherwise specified, the radiated band edge plots in this section display the worst case EIRP measurements for the indicated bandwidth–component carrier configuration.
- 8) The plots in this section that display Total Radiated Power (TRP) were obtained from measurements that were performed in accordance with the guidance of Section 4.4.2.4 of KDB 842590 D01 for the Spherical Method.
- 9) The maximum power within the 23.6 – 24 GHz band is calculated using a correction factor of $10 \cdot \log(200 \text{ MHz} / \text{RBW})$, as specified in KDB 842590 D01. This correction is already applied in the analyzer plots.

Sample Analyzer Offset Calculation (at 27.5GHz)

Measurement Antenna Factor = 46.85dB/m

Cable Loss = 9.18dB

Analyzer Offset (dB) = AF (dB/m) + CL (dB) + 107 + $20\log_{10}(D)$ – 104.8dB, where D = 1m

$$= 46.85\text{dB/m} + 9.18\text{dB} + 107 + 20\log_{10}(1\text{m}) - 104.8\text{dB}$$

$$= 58.23\text{dB}$$

Sample Analyzer Offset Calculation (at 23.6 - 24GHz)

Measurement Antenna Factor = 45.95 dB/m

Cable Loss = 9.18dB

D = 1m

RBW = 1MHz

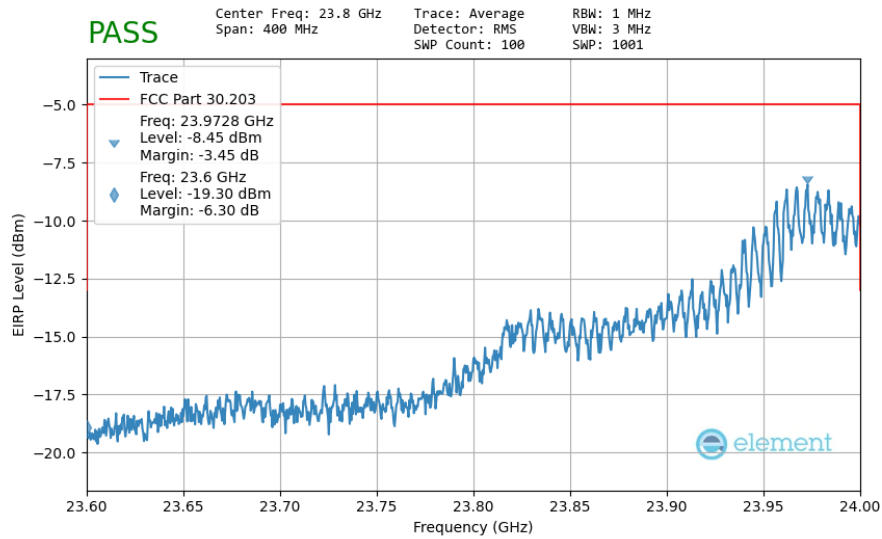
Analyzer Offset (dB) = AF (dB/m) + CL (dB) + 107 + $20\log_{10}(D)$ – 104.8dB + $10\log_{10}(200\text{MHz}/\text{RBW})$,

$$= 45.95 \text{ dB/m} + 9.18\text{dB} + 107 + 20\log_{10}(1\text{m}) - 104.8\text{dB} + 10\log_{10}(200\text{MHz}/1\text{MHz})$$

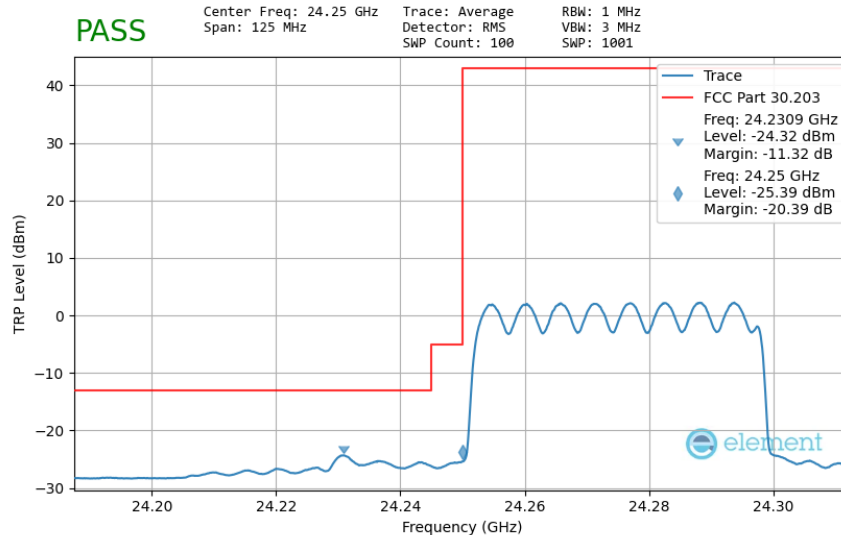
$$= 80.34\text{dB}$$

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Band n258-R1 – Worst Case

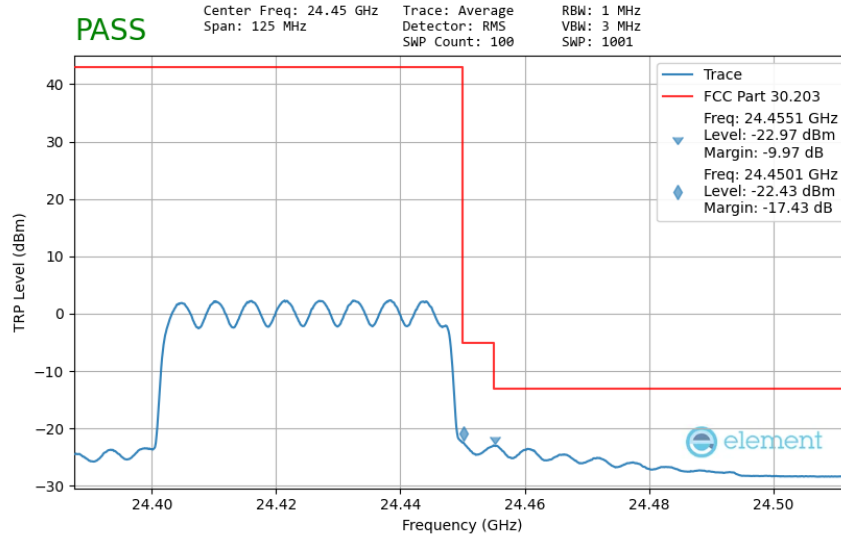


Plot 7-180.Ant 1 Lower Band Edge OOB 23.6-24GHz (100MHz-2CC – DFT-s -OFDM BPSK Full RB)

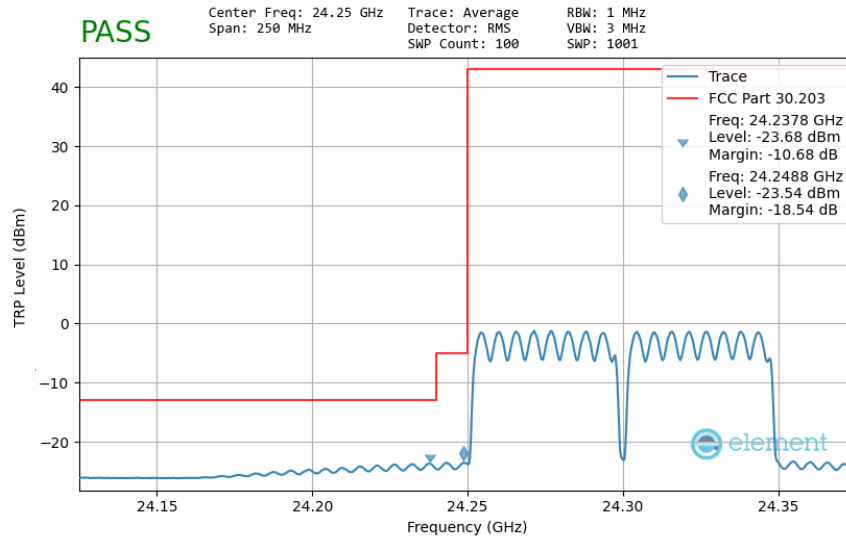


Plot 7-181.Ant 1 Lower Band Edge (50MHz-1CC – DFT-s -OFDM BPSK Full RB) – TRP

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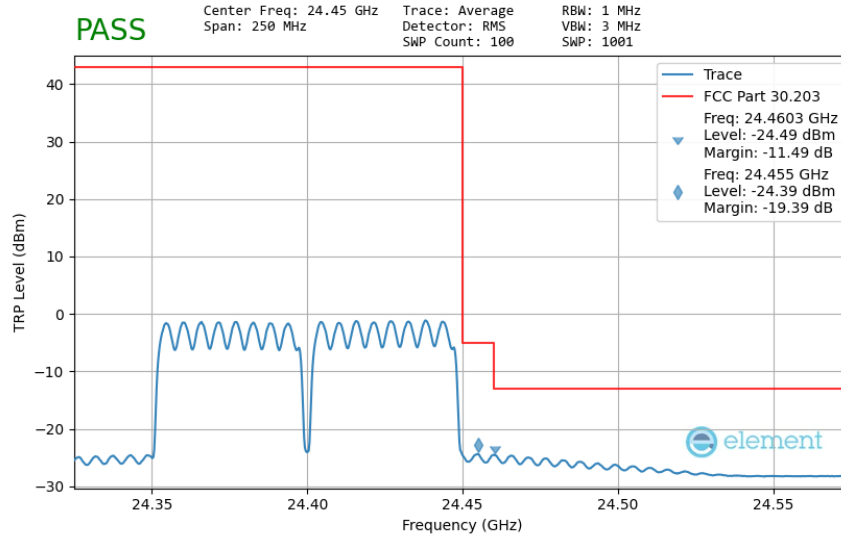


Plot 7-182. Ant 1 Upper Band Edge (50MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP

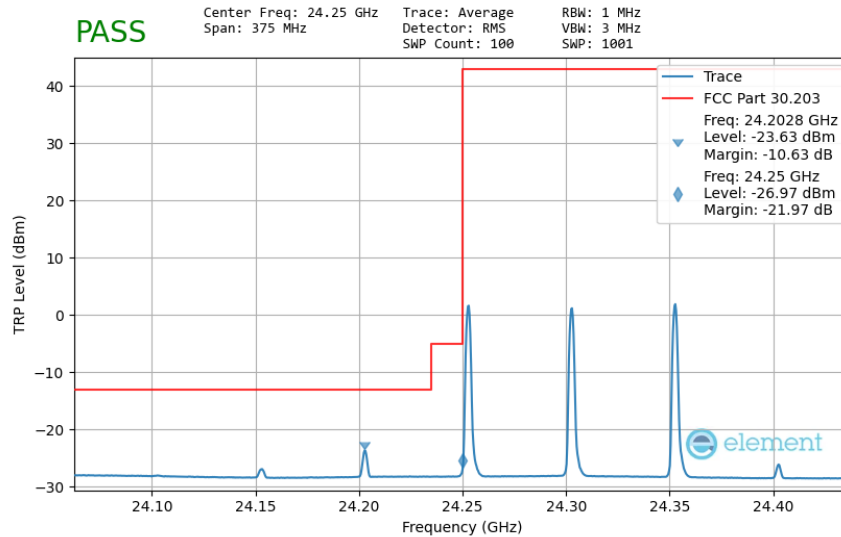


Plot 7-183. Ant 1 Lower Band Edge (50MHz-2CC- DFT-s -OFDM QPSK Full RB) - TRP

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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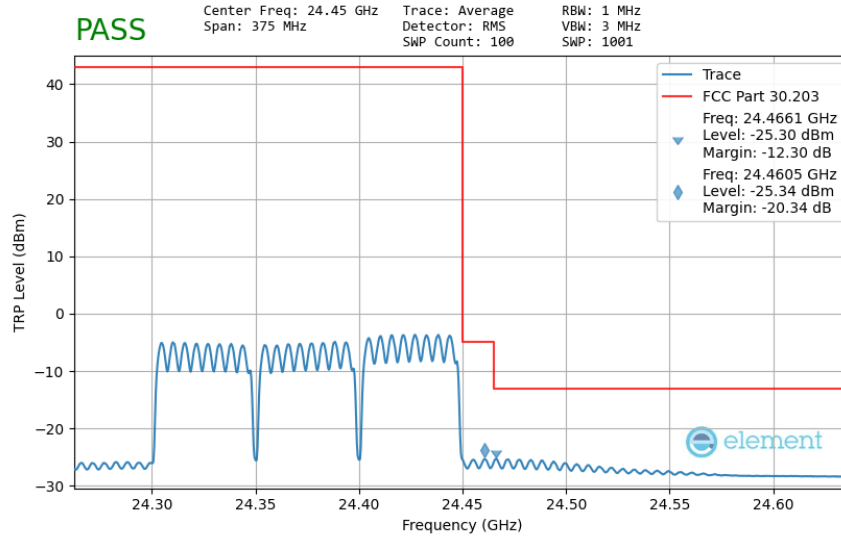


Plot 7-184.Ant 1 Upper Band Edge (50MHz-2CC – DFT-s -OFDM QPSK Full RB) - TRP

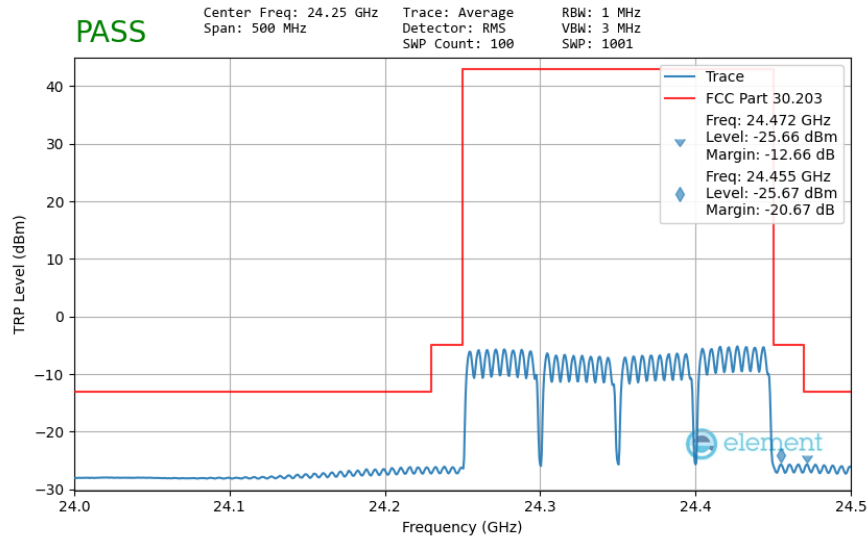


Plot 7-185.Ant 1 Lower Band Edge (50MHz-3CC- DFTs -OFDM BPSK 1 RB) - TRP

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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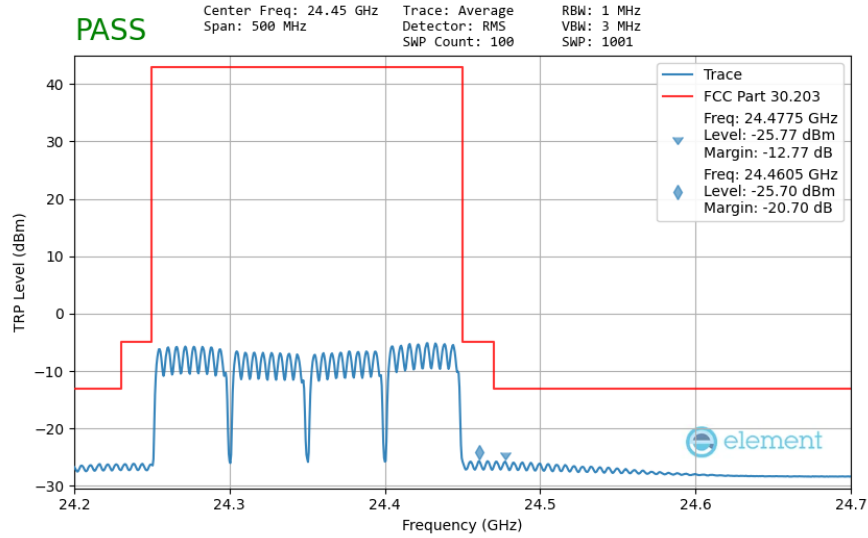


Plot 7-186.Ant 1 Upper Band Edge (50MHz-3CC – DFT-s -OFDM QPSK Full RB) - TRP

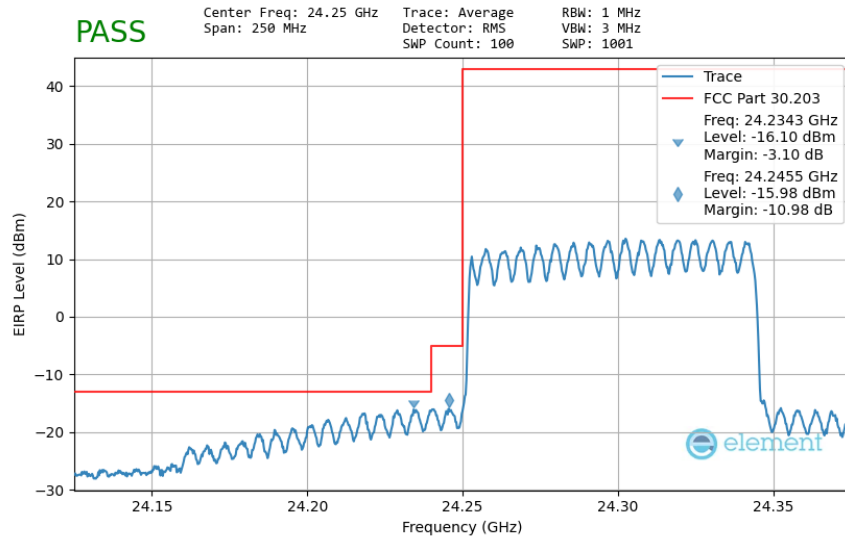


Plot 7-187.Ant 1 Lower Band Edge (50MHz-4CC- DFT-s -OFDM QPSK Full RB) - TRP

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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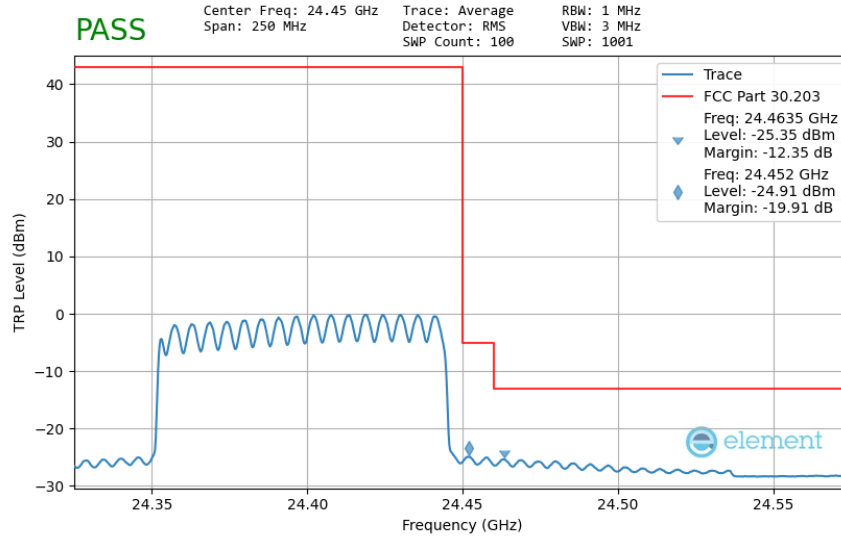


Plot 7-188.Ant 1 Upper Band Edge (50MHz-4CC - DFT-s -OFDM QPSK Full RB) - TRP

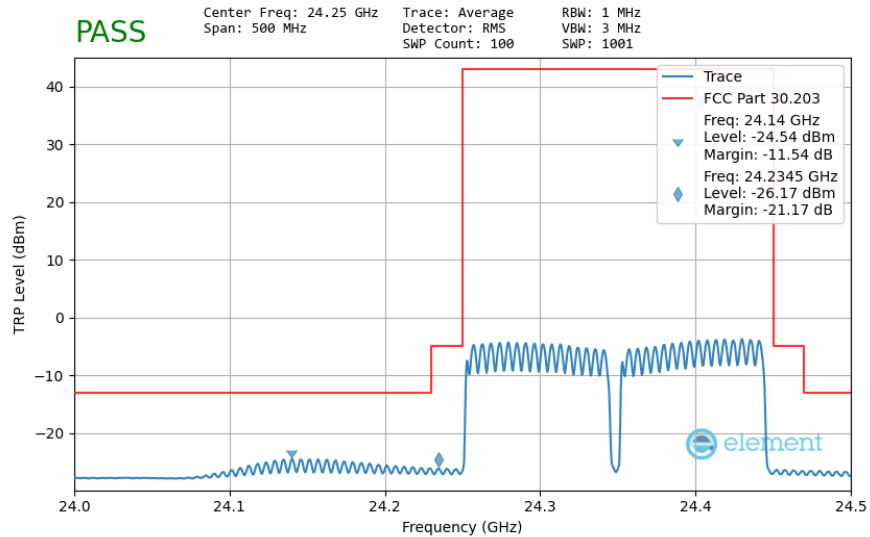


Plot 7-189.Ant 1 Lower Band Edge (100MHz-1CC – DFT-s -OFDM QPSK Full RB)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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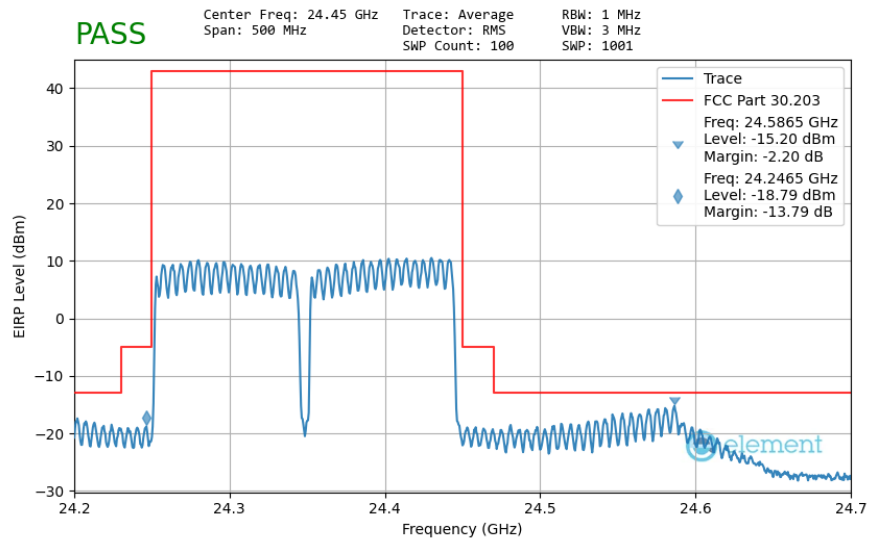


Plot 7-190.Ant 1 Upper Band Edge (100MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP



Plot 7-191.Ant 1 Lower Band Edge (100MHz-2CC - DFT-s -OFDM QPSK Full RB) - TRP

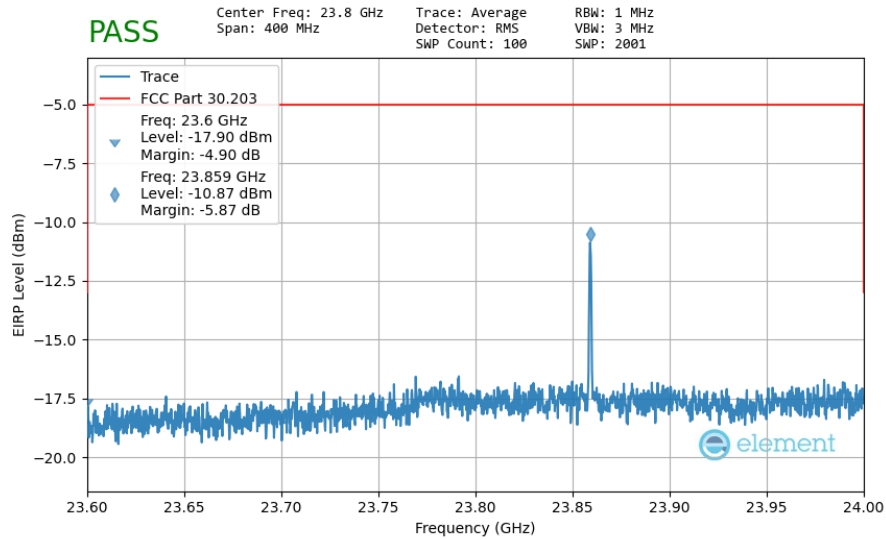
FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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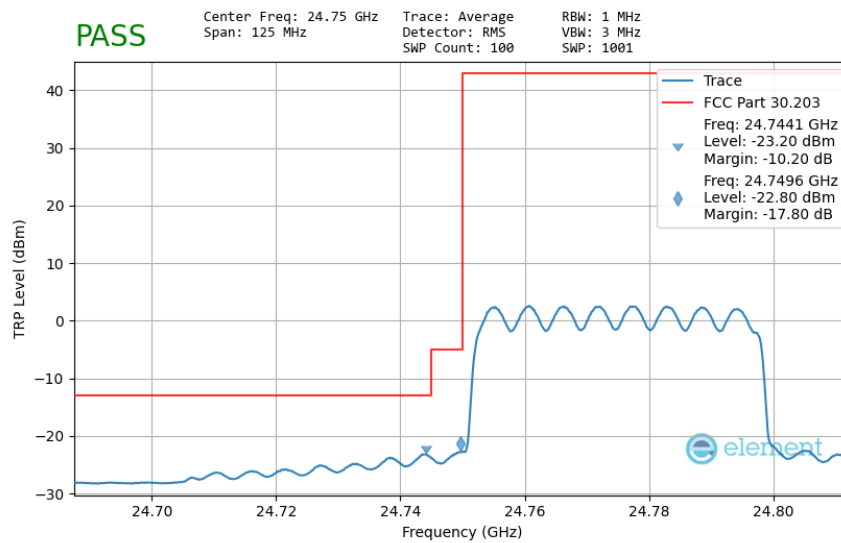
Plot 7-192.Ant 1 Upper Band Edge (100MHz-2CC – DFT-s-OFDM $\pi/2$ BPSK Full RB)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Band n258-R2 –Worst Case

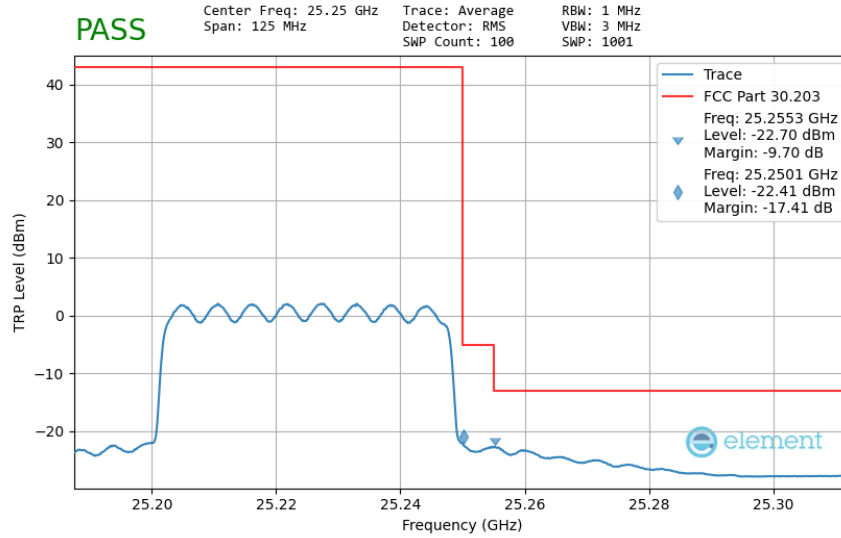


Plot 7-193. Ant 1 Lower Band Edge OOB 23.6-24GHz (100MHz-4CC – DFT-s-OFDM QPSK Full RB)

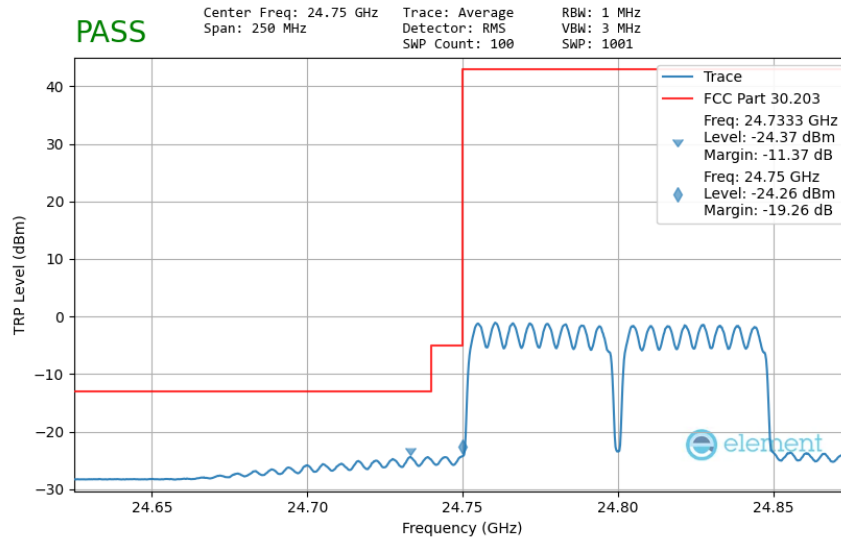


Plot 7-194. Ant 1 Lower Band Edge (50MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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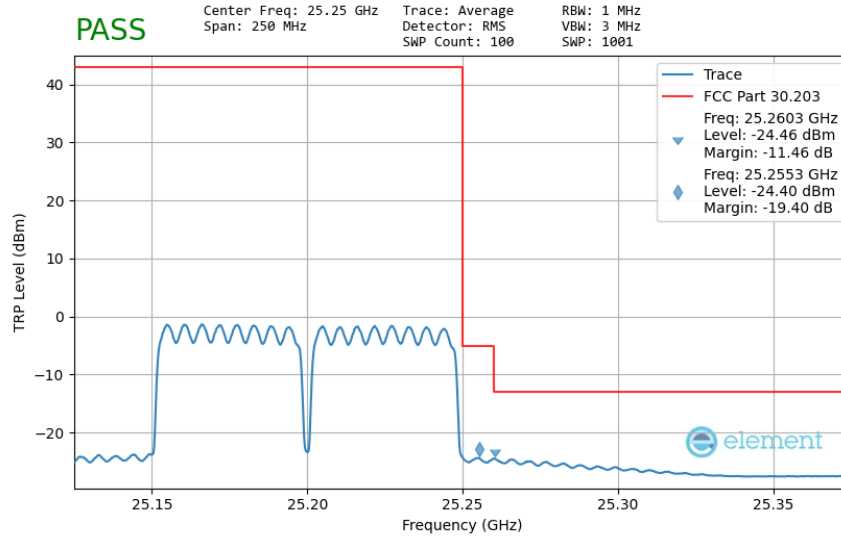


Plot 7-195. Ant 1 Upper Band Edge (50MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP

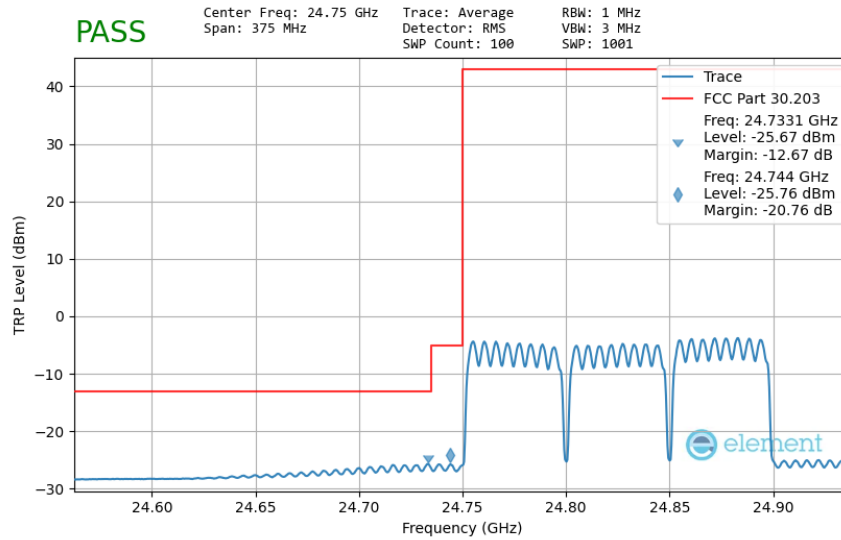


Plot 7-196. Ant 1 Lower Band Edge (50MHz-2CC – DFT-s-OFDM QPSK Full RB) - TRP

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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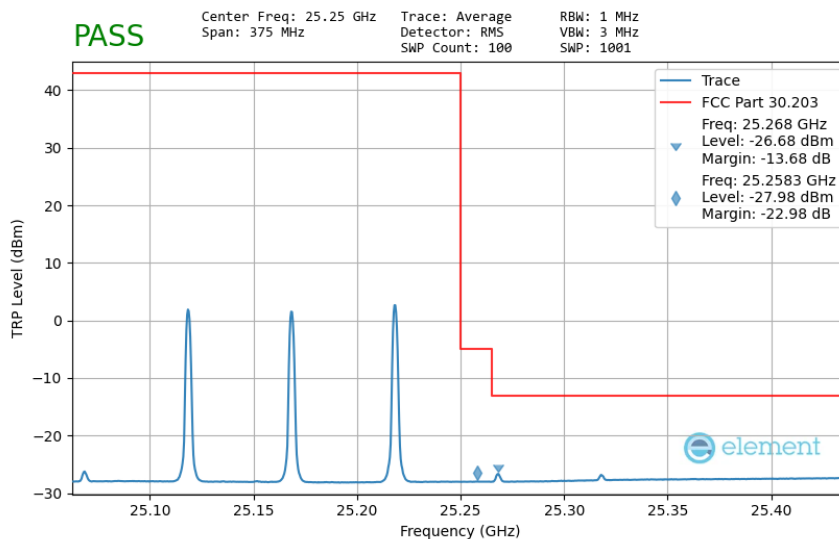


Plot 7-197.Ant 1 Upper Band Edge (50MHz-2CC – DFT-s -OFDM QPSK Full RB) - TRP

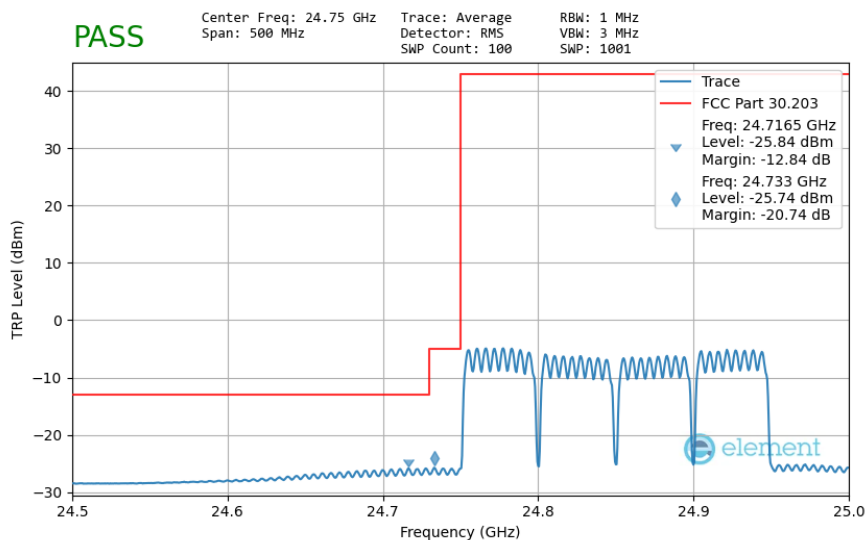


Plot 7-198.Ant 1 Lower Band Edge (50MHz-3CC- DFTs -OFDM BPSK Full RB) - TRP

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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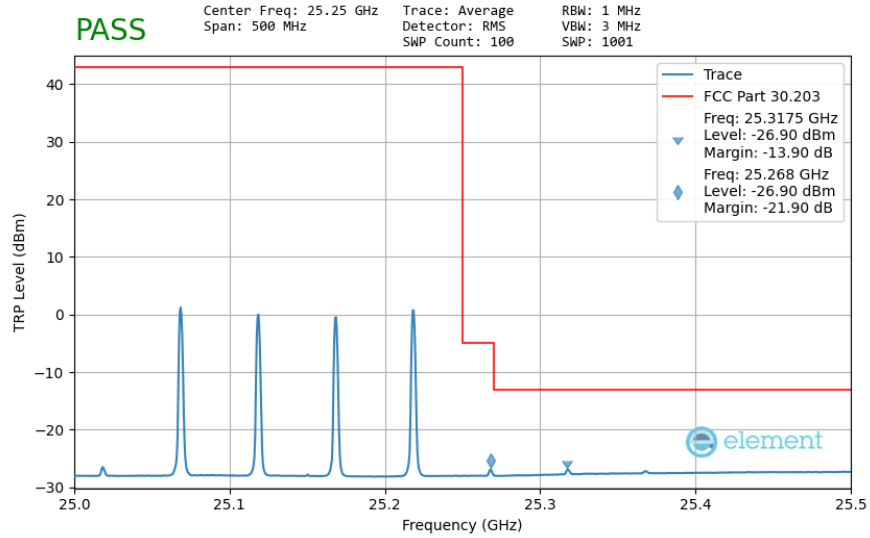


Plot 7-199.Ant 1 Upper Band Edge (50MHz-3CC – CP-QPSK 1 RB) - TRP

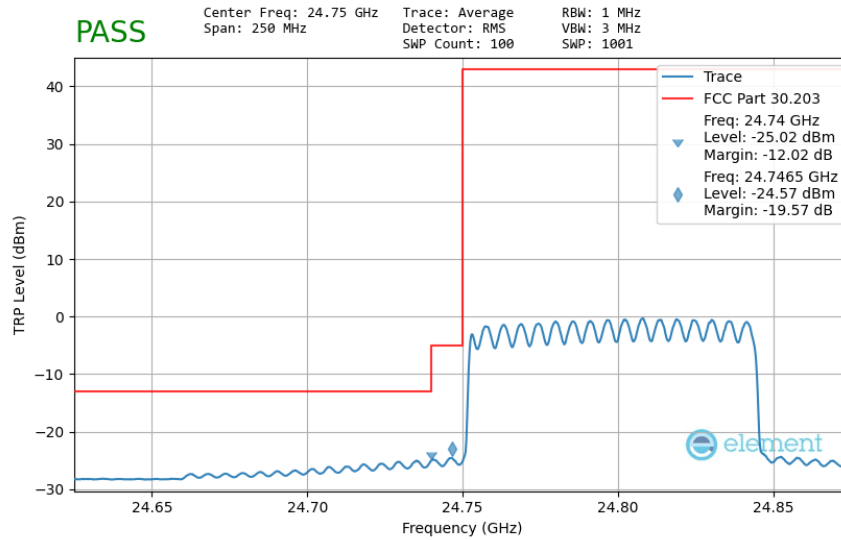


Plot 7-200.Ant 1 Lower Band Edge (50MHz-4CC- DFT-s -OFDM QPSK Full RB) - TRP

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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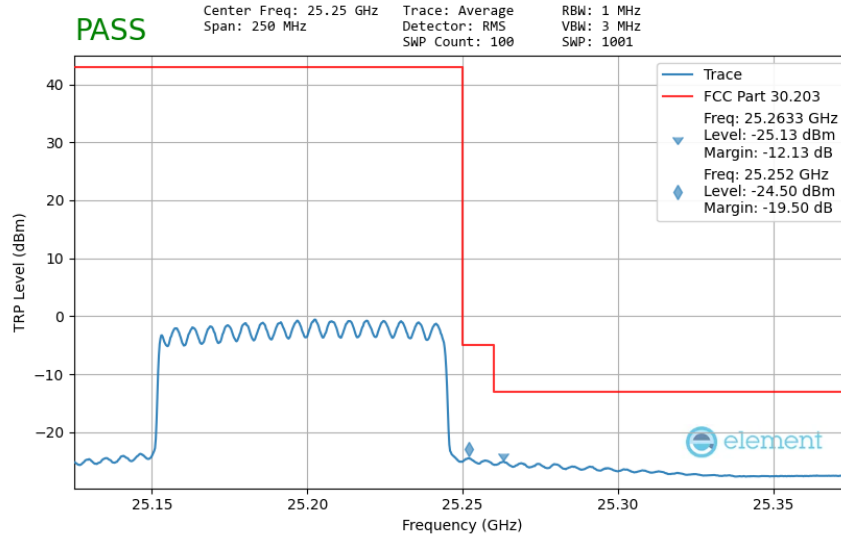


Plot 7-201.Ant 1 Upper Band Edge (50MHz-4CC - DFT-s -OFDM QPSK 1 RB) - TRP

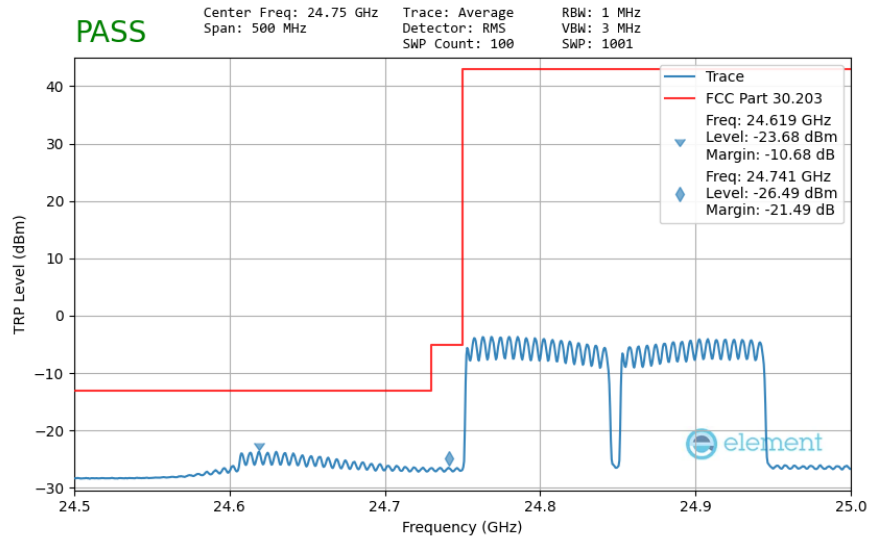


Plot 7-202.Ant 1 Lower Band Edge (100MHz-1CC – DFT-s -OFDM QPSK Full RB) - TRP

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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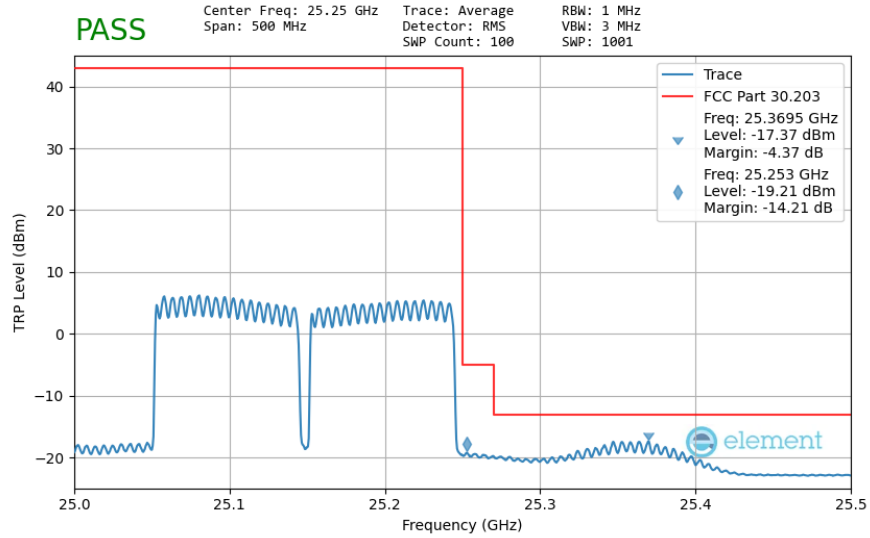


Plot 7-203.Ant 1 Upper Band Edge (100MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP

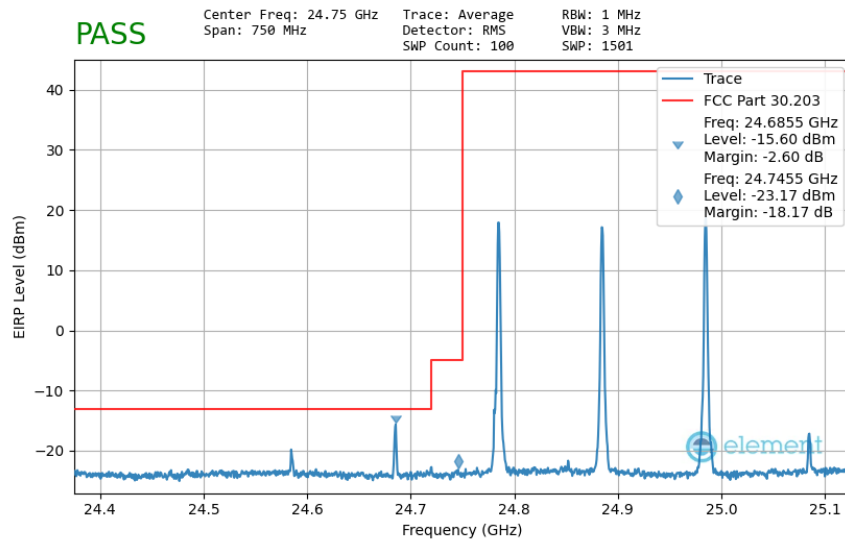


Plot 7-204.Ant 1 Lower Band Edge (100MHz-2CC - DFT-s -OFDM BPSK Full RB) - TRP

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-205.Ant 1 Upper Band Edge (100MHz-2CC – CP-OFDM QPSK Full RB) - TRP



Plot 7-206.Ant 1 Lower Band Edge (100MHz-3CC – CP-OFDM QPSK 1 RB)

FCC ID: A3LSMF966U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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