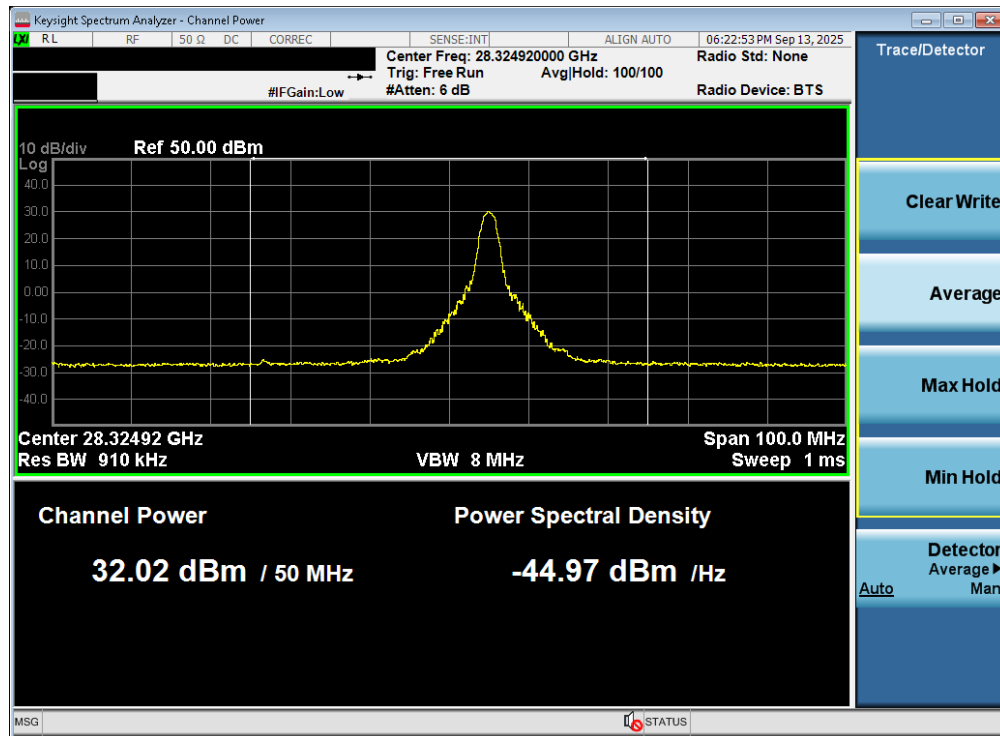
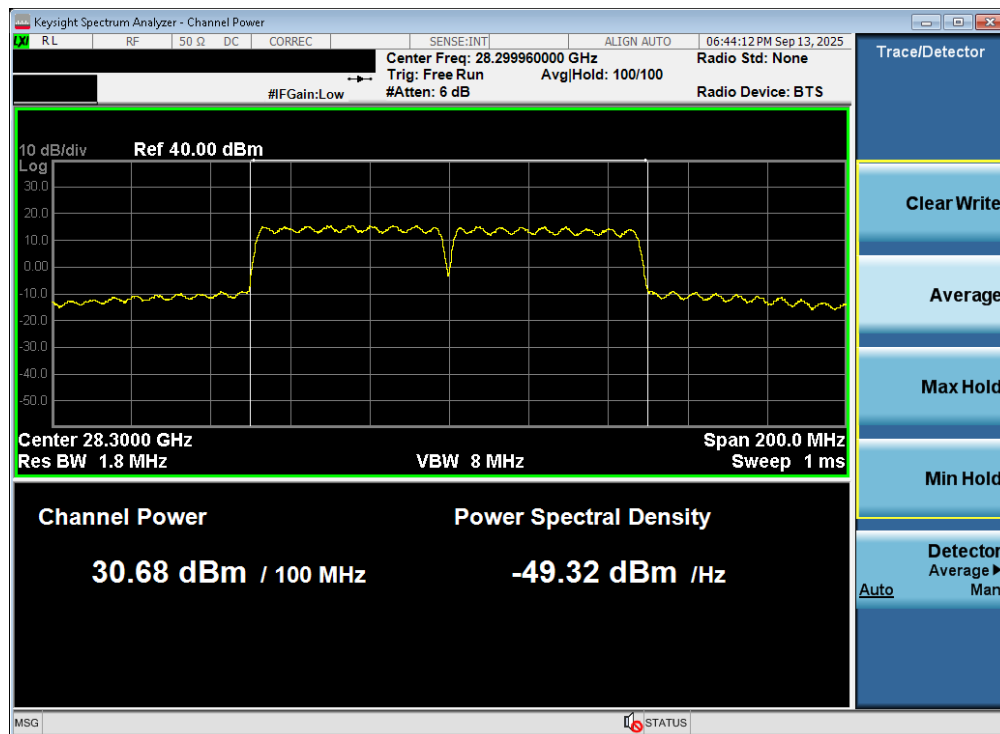


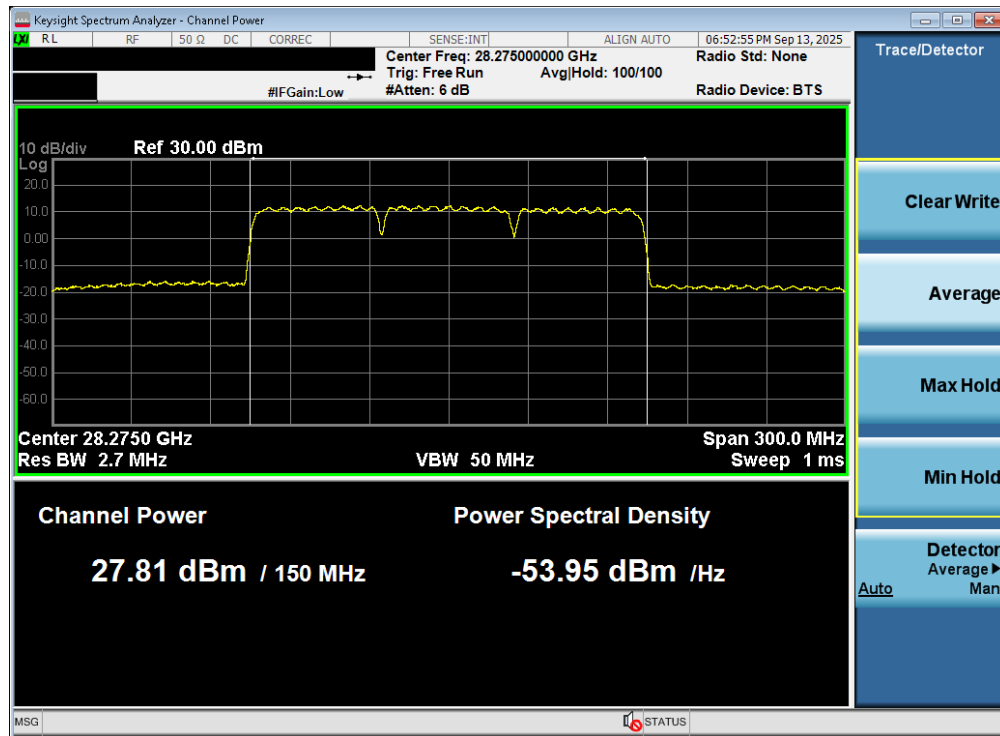


Plot 7-135. Ant1 EIRP Plot (Band 261 – 50MHz-1CC – DFT-s-OFDM QPSK – High Channel)

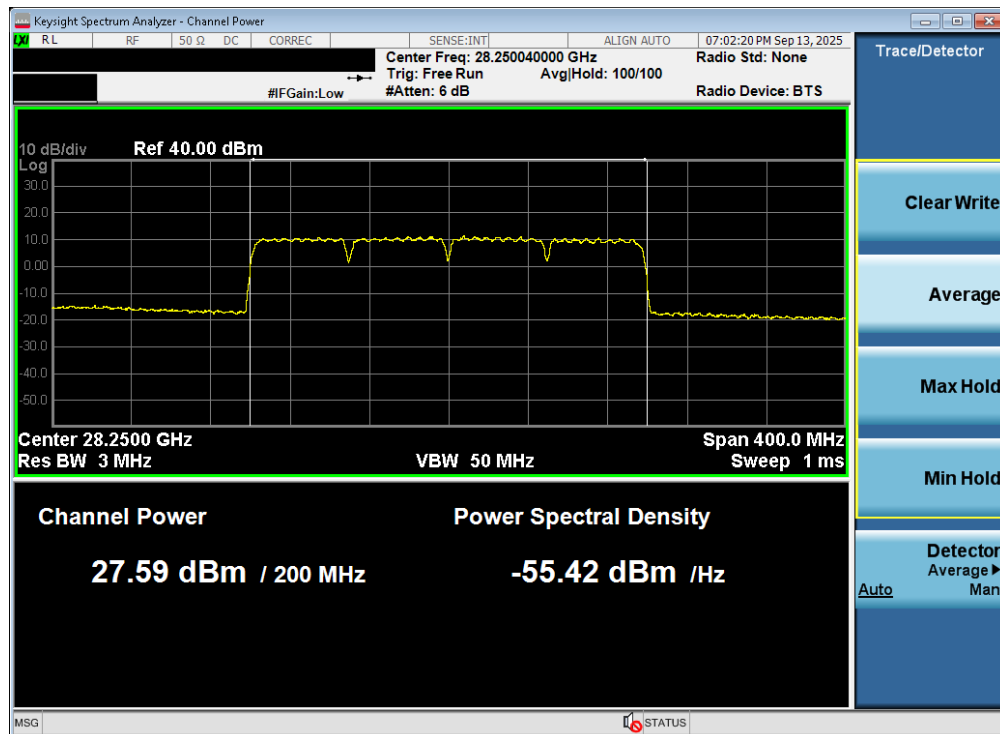


Plot 7-136. Ant1 EIRP Plot (Band 261 – 50MHz-2CC – DFT-s-OFDM QPSK – High Channel)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 97 of 196



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



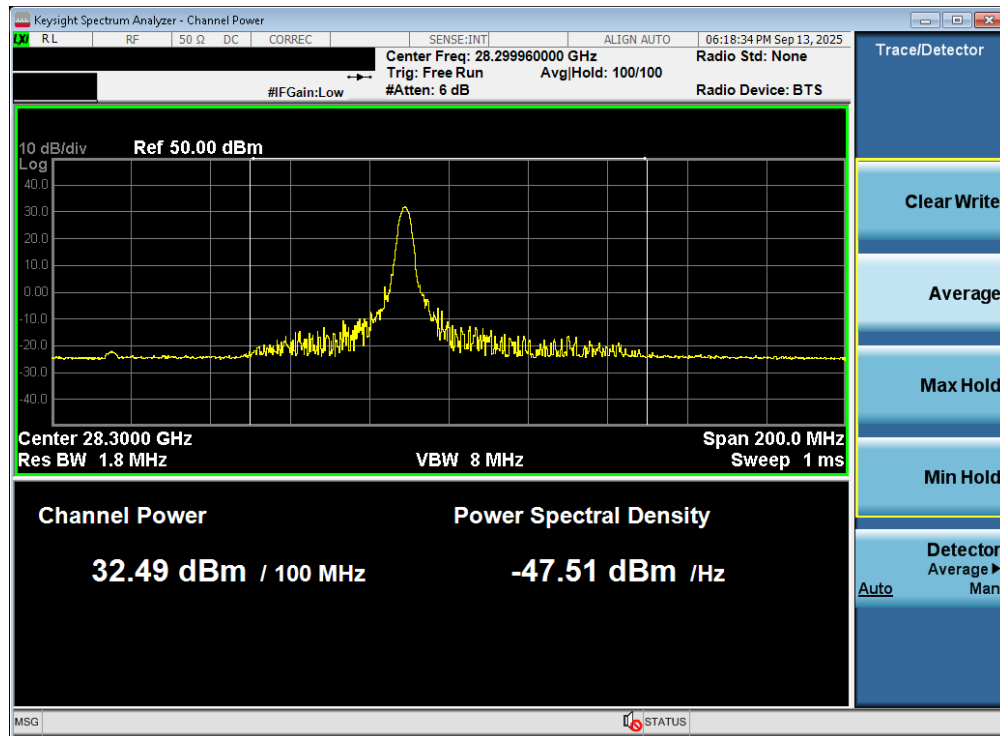
Plot 7-138. Ant1 EIRP Plot (Band 261 – 50MHz-4CC – DFT-s-OFDM QPSK – High Channel)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 98 of 196

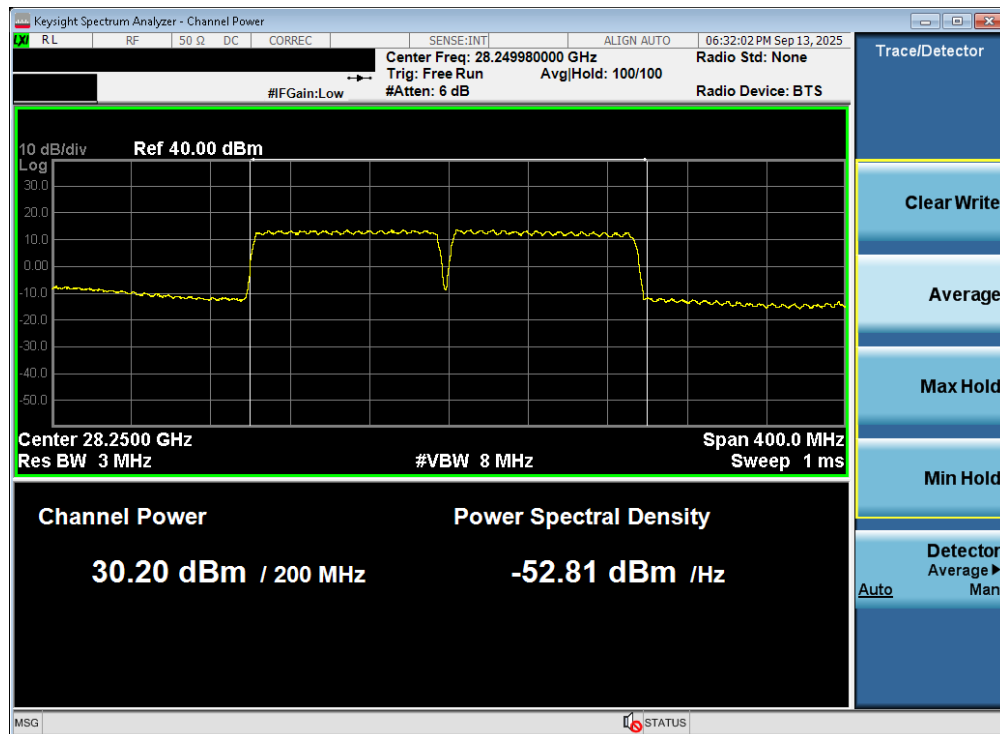
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offsets	EIRP [dBm]
100	1	Low	27550.08	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	H	281	305	1 / 36	31.63
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	H	281	305	1 / 36	27.69
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	H	281	305	1 / 36	31.71
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	H	281	305	1 / 36	30.64
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	H	281	305	1 / 36	27.61
		Mid	27924.96	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	H	278	306	1 / 44	32.11
				DFT-s-OFDM	QPSK	275	V	SISO	V	79	104	1 / 44	31.36
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	H	278	306	1 / 44	28.95
				CP-OFDM	QPSK	275	V	SISO	V	79	104	1 / 44	29.83
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	H	278	306	1 / 44	32.14
		High	28299.96	DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	H	278	306	1 / 44	31.10
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	H	278	306	1 / 44	27.96
				DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	H	280	300	1 / 25	32.49
				DFT-s-OFDM	QPSK	14	H	SISO	V	243	80	1 / 25	27.51
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	H	280	300	1 / 25	29.81
				CP-OFDM	QPSK	14	H	SISO	V	243	80	1 / 33	25.91
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	H	280	300	1 / 25	32.42
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	H	280	300	1 / 25	31.97
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	H	280	300	1 / 25	28.87
				DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	H	281	305	64 / 0	29.79
100+100	2	Low	27600.06	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	H	281	305	64 / 0	29.92
		Mid	27925.02	DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	H	278	306	64 / 0	30.20
		High	28249.98	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	H	380	300	66 / 0	27.63
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	H	380	300	66 / 0	30.19
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	H	380	300	64 / 0	29.74
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	H	380	300	64 / 0	26.07
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	H	380	300	64 / 0	26.07
100+100+100	3	Low	27650.04	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	H	281	305	64 / 0	27.40
		Mid	27924.96	DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	H	278	306	64 / 0	27.41
		High	28200.00	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	H	280	300	64 / 0	27.45
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	H	280	300	66 / 0	26.47
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	H	280	300	64 / 0	27.41
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	H	280	300	64 / 0	26.39
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	H	280	300	64 / 0	24.90
100+100+100+100	4	Low	27700.02	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	H	281	305	64 / 0	27.35
		Mid	27925.02	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	H	278	306	64 / 0	27.24
		High	28150.02	DFT-s-OFDM	QPSK	18 + 274	H + V	2Tx	H	280	300	64 / 0	27.43
				CP-OFDM	QPSK	18 + 274	H + V	MIMO	H	280	300	66 / 0	26.47
				DFT-s-OFDM	$\pi/2$ BPSK	18 + 274	H + V	2Tx	H	280	300	64 / 0	27.34
				DFT-s-OFDM	16QAM	18 + 274	H + V	2Tx	H	280	300	64 / 0	26.51
				DFT-s-OFDM	64QAM	18 + 274	H + V	2Tx	H	280	300	64 / 0	24.97

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

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 99 of 196

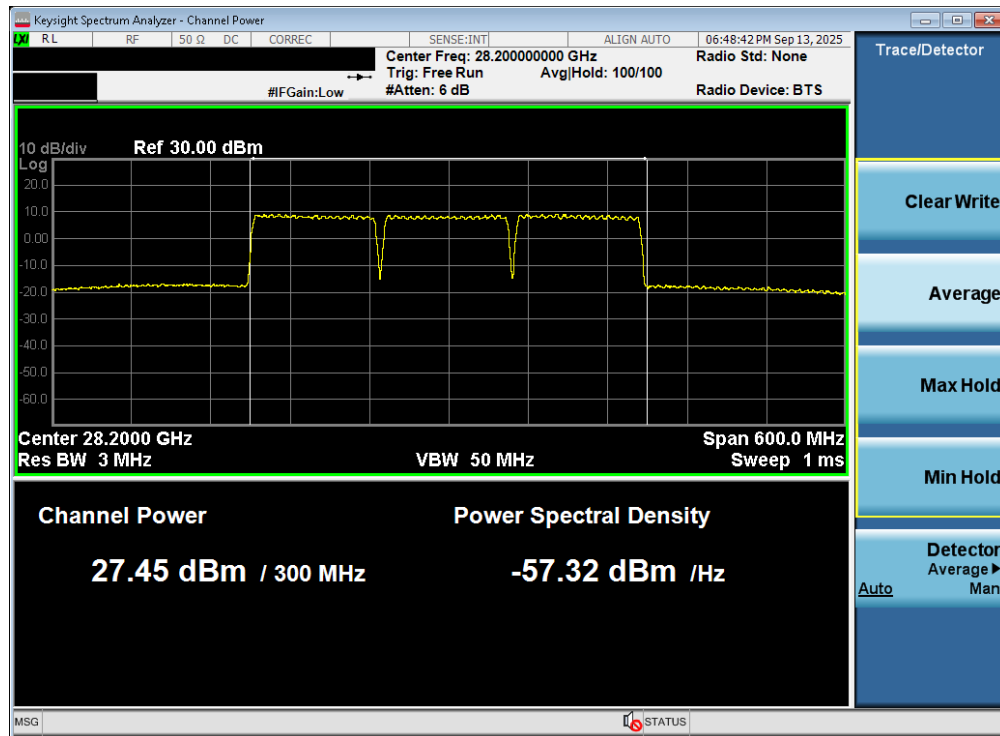


Plot 7-139. Ant1 EIRP Plot (Band 261 – 100MHz-1CC – DFT-s-OFDM QPSK – High Channel)

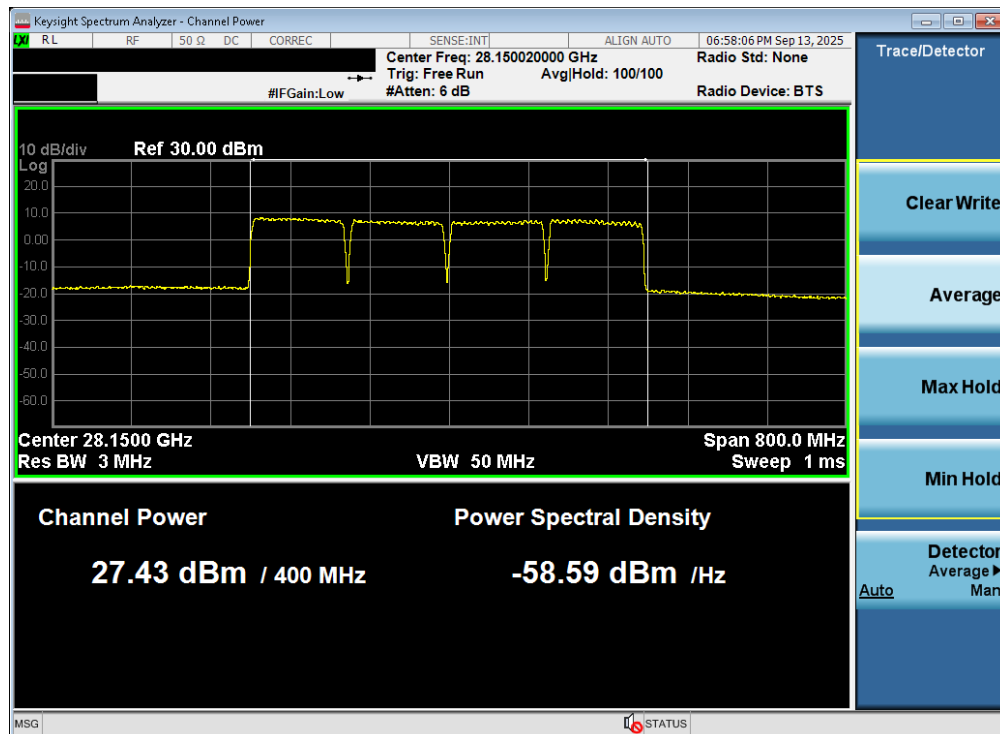


Plot 7-140. Ant1 EIRP Plot (Band 261 – 100MHz-2CC – DFT-s-OFDM QPSK – High Channel)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 100 of 196



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 QPSK – High Channel)

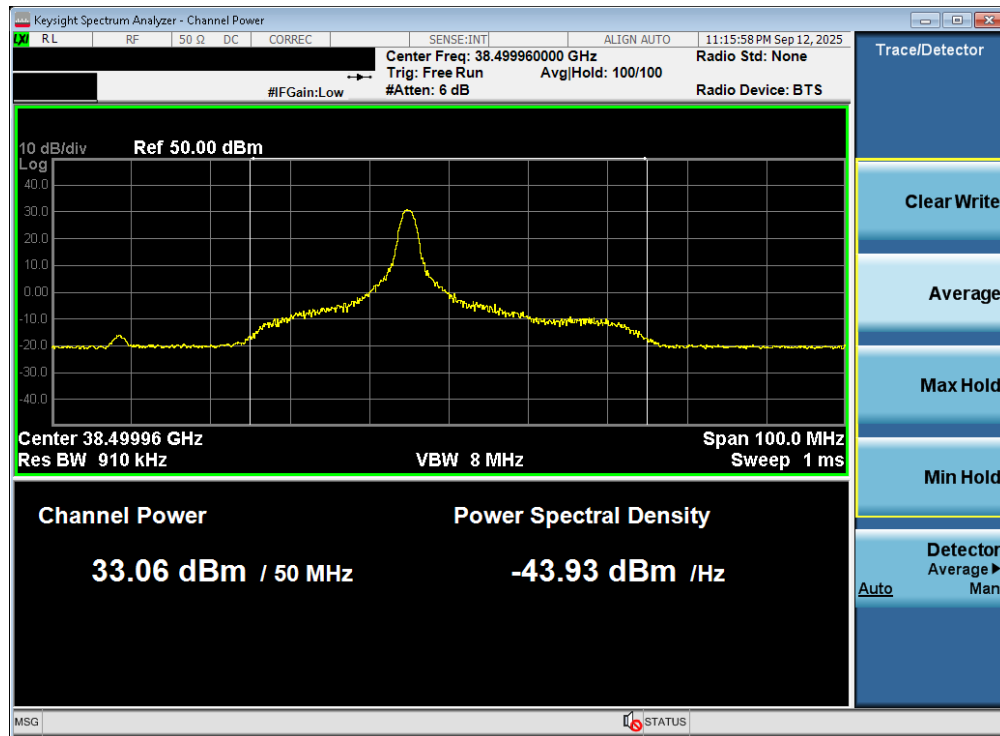
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 101 of 196

Band n260

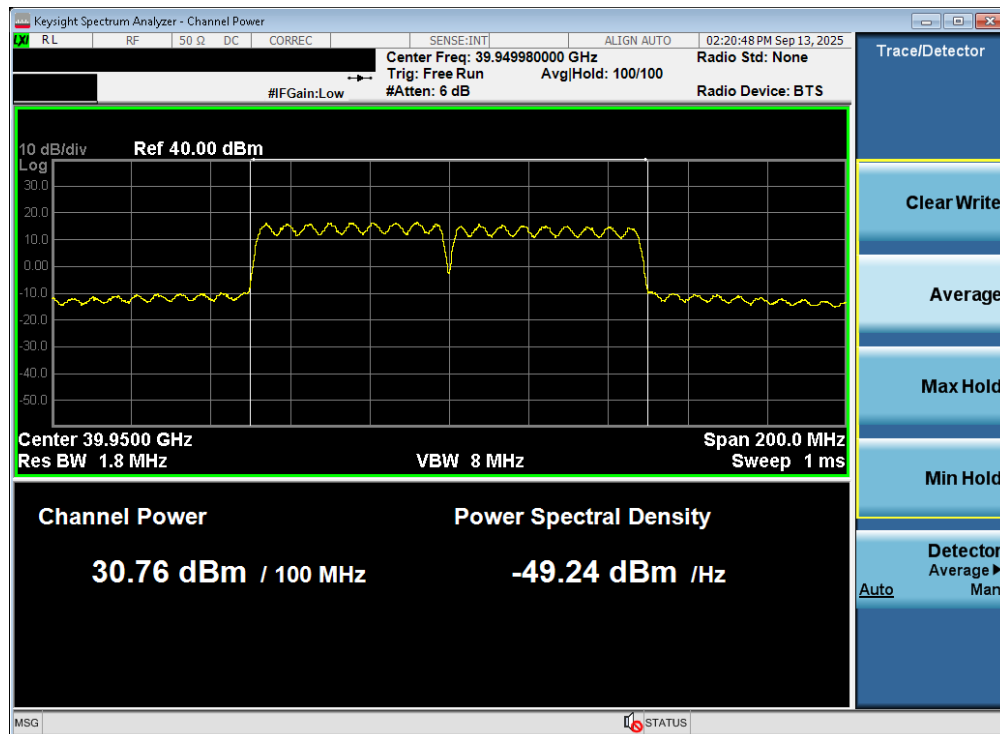
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offsets	EIRP [dBm]
50	1	Low	37025.04	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	67	244	1 / 12	31.69
				DFT-s-OFDM	QPSK	275	V	SISO	V	235	85	1 / 16	28.07
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	H	67	244	1 / 12	29.47
				CP-OFDM	QPSK	275	V	SISO	V	235	85	1 / 19	27.49
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	67	244	1 / 12	31.58
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	H	67	244	1 / 12	31.21
		Mid	38499.96	DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	H	67	244	1 / 12	28.06
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	244	1 / 12	32.99
				DFT-s-OFDM	QPSK	20	H	SISO	V	127	98	1 / 15	28.25
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	H	68	244	1 / 12	31.06
				CP-OFDM	QPSK	20	H	SISO	V	127	98	1 / 19	27.65
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	244	1 / 12	33.06
		High	39975.00	DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	H	68	244	1 / 12	32.52
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	H	68	244	1 / 12	29.51
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	246	1 / 16	32.64
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	H	68	246	1 / 16	30.70
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	246	1 / 16	32.73
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	H	68	246	1 / 16	32.19
50+50	2	Low	37050.00	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	67	244	32 / 0	28.58
		Mid	38499.96	DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	244	32 / 0	30.59
		High	39950.04	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	246	32 / 0	30.76
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	H	68	246	32 / 0	28.25
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	246	32 / 0	30.60
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	H	68	246	32 / 0	30.17
50+50+50	3	Low	37074.96	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	67	244	32 / 0	26.62
		Mid	38499.96	DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	244	32 / 0	28.27
		High	39925.08	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	246	32 / 0	28.51
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	H	68	246	32 / 0	27.58
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	246	32 / 0	28.45
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	H	68	246	32 / 0	27.44
50+50+50+50	4	Low	37099.92	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	67	244	32 / 0	26.58
		Mid	38499.96	DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	244	32 / 0	28.14
		High	39900.12	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	246	32 / 0	28.45
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	H	68	246	32 / 0	27.47
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	246	32 / 0	28.52
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	H	68	246	32 / 0	27.48
50+50+50+50+50	5	Low	37124.88	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	67	244	32 / 0	26.58
		Mid	38499.96	DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	244	32 / 0	28.14
		High	39900.12	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	246	32 / 0	28.45
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	H	68	246	32 / 0	27.47
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	246	32 / 0	28.52
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	H	68	246	32 / 0	27.48

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

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 102 of 196

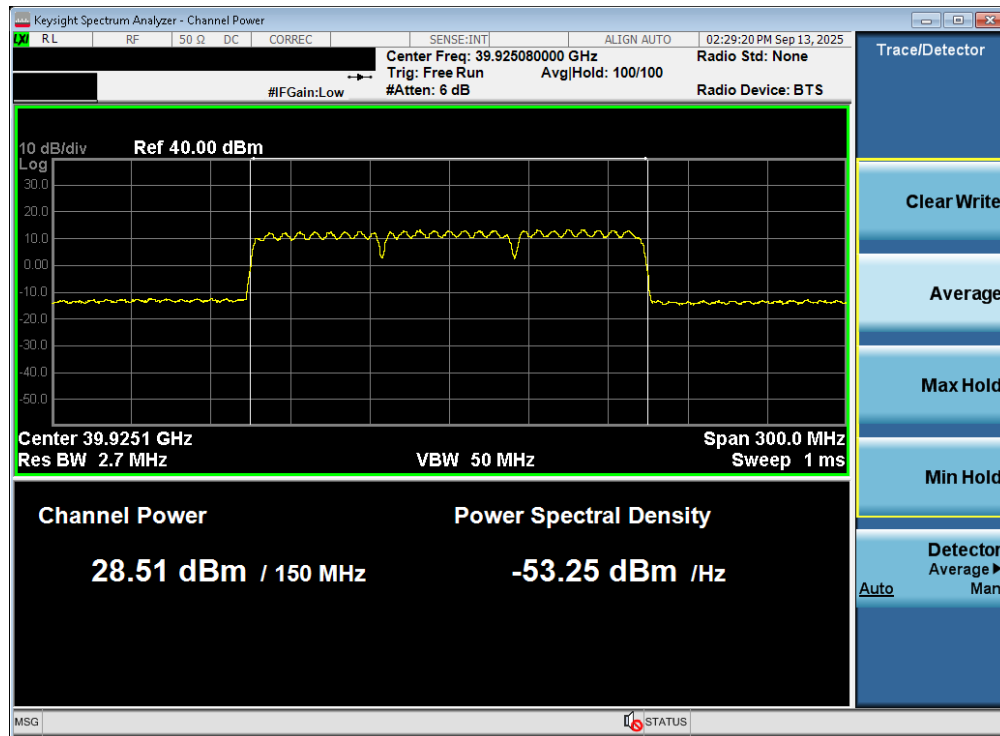


Plot 7-143. Ant1 EIRP Plot (Band 260 – 50MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK – Mid Channel)

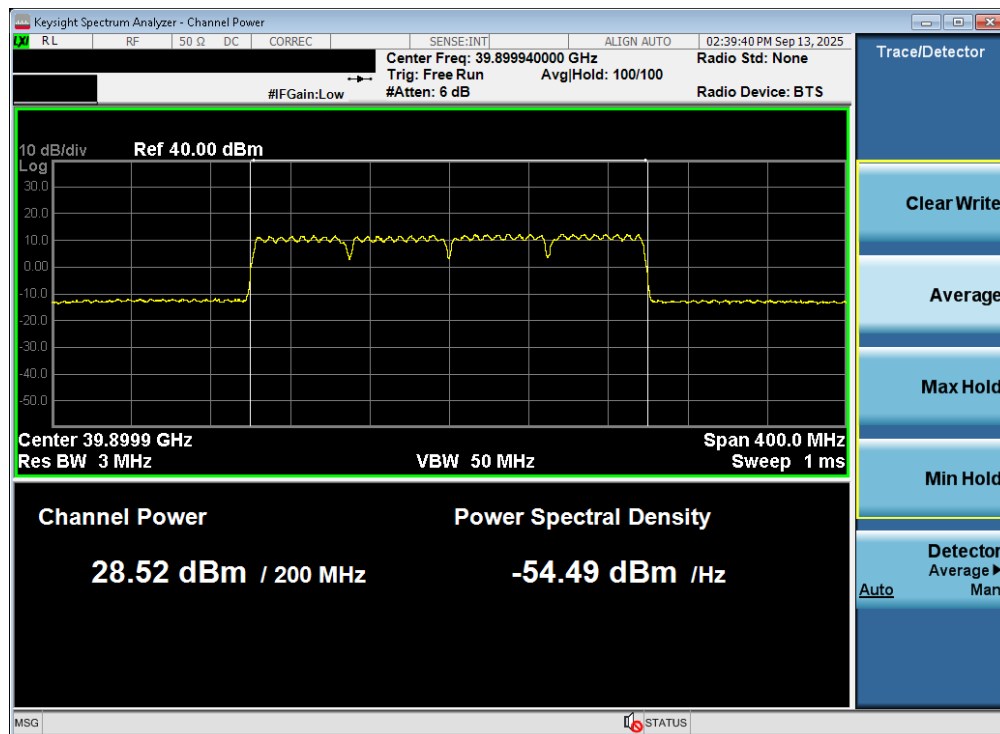


Plot 7-144. Ant1 EIRP Plot (Band 260 – 50MHz-2CC – DFT-s-OFDM QPSK – High Channel)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 103 of 196



Plot 7-145. Ant1 EIRP Plot (Band 260 – 50MHz-3CC – DFT-s-OFDM QPSK – High Channel)



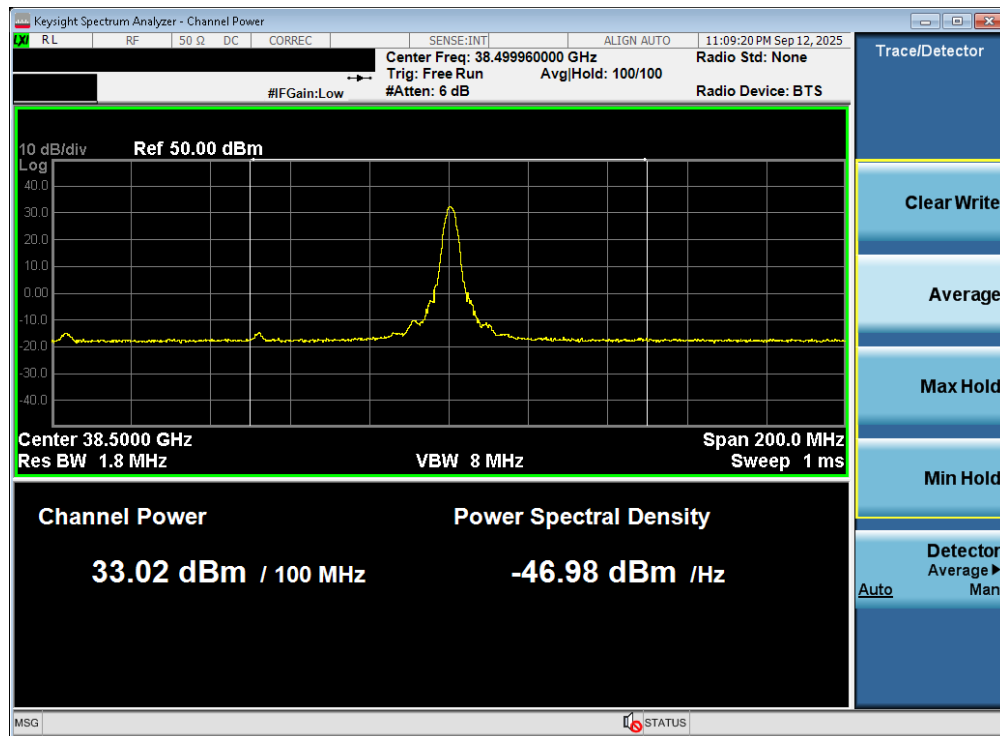
Plot 7-146. Ant1 EIRP Plot (Band 260 – 50MHz-4CC – DFT-s-OFDM $\pi/2$ BPSK – High Channel)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 104 of 196

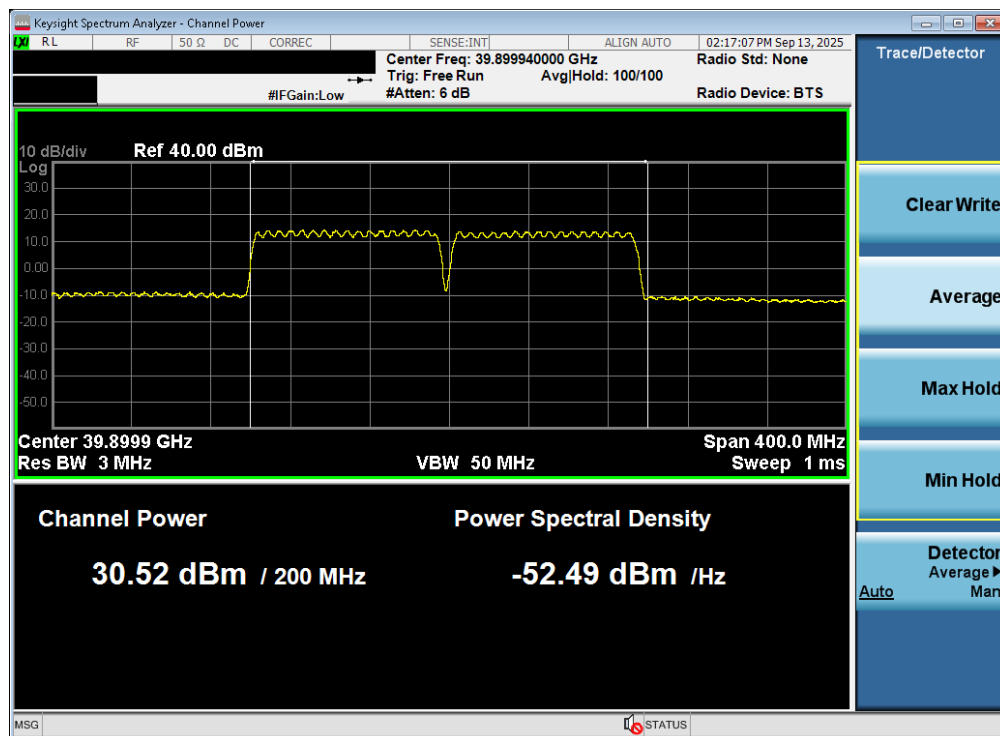
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offsets	EIRP [dBm]
100	1	Low	37050.00	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	67	244	1 / 40	31.63
				DFT-s-OFDM	QPSK	275	V	SISO	V	235	85	1 / 25	28.08
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	H	67	244	1 / 40	29.71
				CP-OFDM	QPSK	275	V	SISO	V	235	85	1 / 40	27.54
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	67	244	1 / 40	31.60
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	H	67	244	1 / 40	31.07
		Mid	38499.96	DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	H	67	244	1 / 40	28.05
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	244	1 / 33	33.02
				DFT-s-OFDM	QPSK	20	H	SISO	V	127	98	1 / 33	28.22
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	H	68	244	1 / 33	31.03
				CP-OFDM	QPSK	20	H	SISO	V	127	98	1 / 33	27.78
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	244	1 / 33	33.01
		High	39949.92	DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	H	68	244	1 / 33	32.57
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	H	68	244	1 / 33	29.61
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	246	1 / 23	32.74
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	H	68	246	1 / 23	30.68
				DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	246	1 / 23	32.64
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	H	68	246	1 / 23	32.26
100+100	2	Low	37099.98	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	67	244	64 / 0	28.43
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	244	64 / 0	30.42
		Mid	38500.02	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	246	64 / 0	30.52
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	H	68	246	66 / 0	27.92
		High	39899.94	DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	246	64 / 0	30.27
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	H	68	246	64 / 0	29.89
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	H	68	246	64 / 0	26.31
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	67	244	64 / 0	26.10
100+100+100	3	Low	37149.96	DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	67	244	64 / 0	27.84
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	244	64 / 0	28.02
		Mid	38499.96	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	246	64 / 0	26.92
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	H	68	246	66 / 0	27.90
		High	39849.96	DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	246	64 / 0	27.41
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	H	68	246	64 / 0	25.29
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	H	68	246	64 / 0	26.22
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	67	244	64 / 0	27.67
100+100+100+100	4	Low	37199.94	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	67	244	64 / 0	28.19
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	244	64 / 0	27.01
		Mid	38500.02	DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	246	66 / 0	28.03
				CP-OFDM	QPSK	13 + 269	H + V	MIMO	H	68	246	64 / 0	27.58
		High	39799.98	DFT-s-OFDM	$\pi/2$ BPSK	13 + 269	H + V	2Tx	H	68	246	64 / 0	25.50
				DFT-s-OFDM	16QAM	13 + 269	H + V	2Tx	H	68	246	64 / 0	
				DFT-s-OFDM	64QAM	13 + 269	H + V	2Tx	H	68	246	64 / 0	
				DFT-s-OFDM	QPSK	13 + 269	H + V	2Tx	H	68	246	64 / 0	

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

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 105 of 196

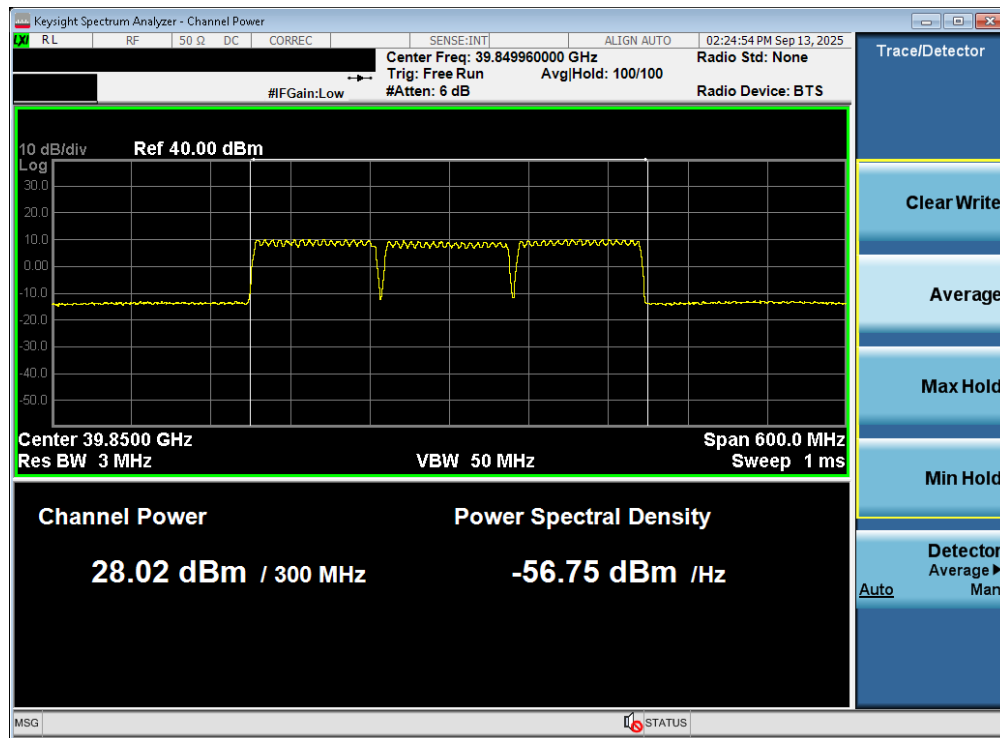


Plot 7-147. Ant1 EIRP Plot (Band 260 – 100MHz-1CC – DFT-s-OFDM QPSK – Mid Channel)

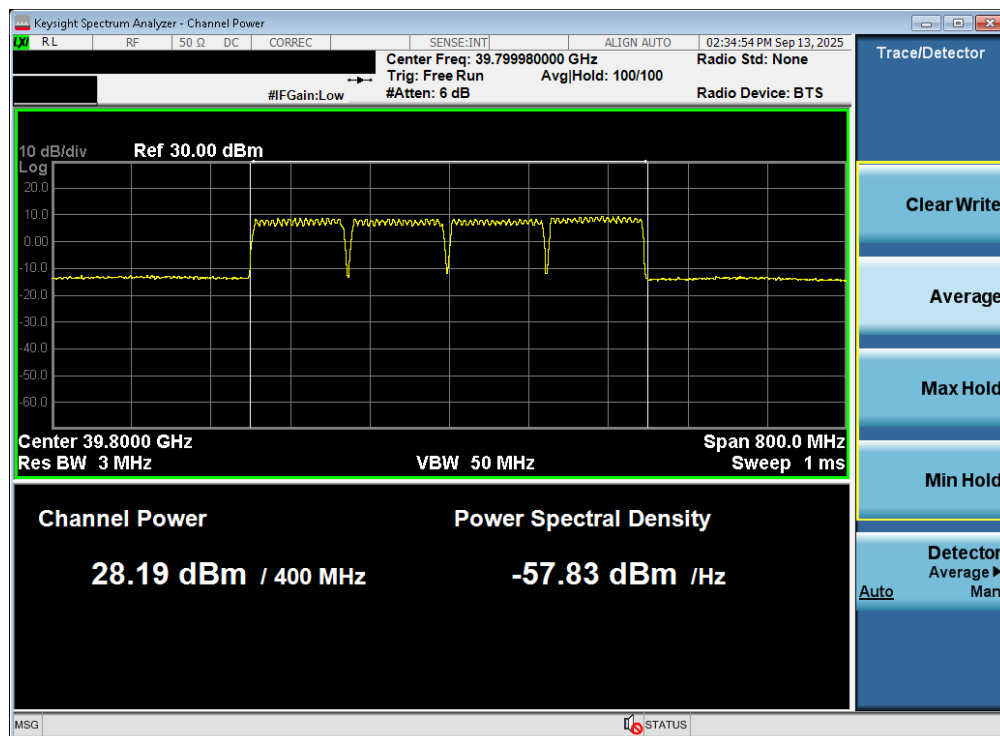


Plot 7-148. Ant1 EIRP Plot (Band 260 – 100MHz-2CC – DFT-s-OFDM QPSK – High Channel)

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Plot 7-149. Ant1 EIRP Plot (Band 260 – 100MHz-3CC – DFT-s-OFDM QPSK – High Channel)



Plot 7-150. Ant1 EIRP Plot (Band 260 – 100MHz-4CC – DFT-s-OFDM QPSK – High Channel)

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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	1.54	2.00
60-90	0.333	1.33	1.50
90-140	0.214	0.73	1.00
140-220	0.136	0.33	1.00
220-250	0.120	0.28	1.00

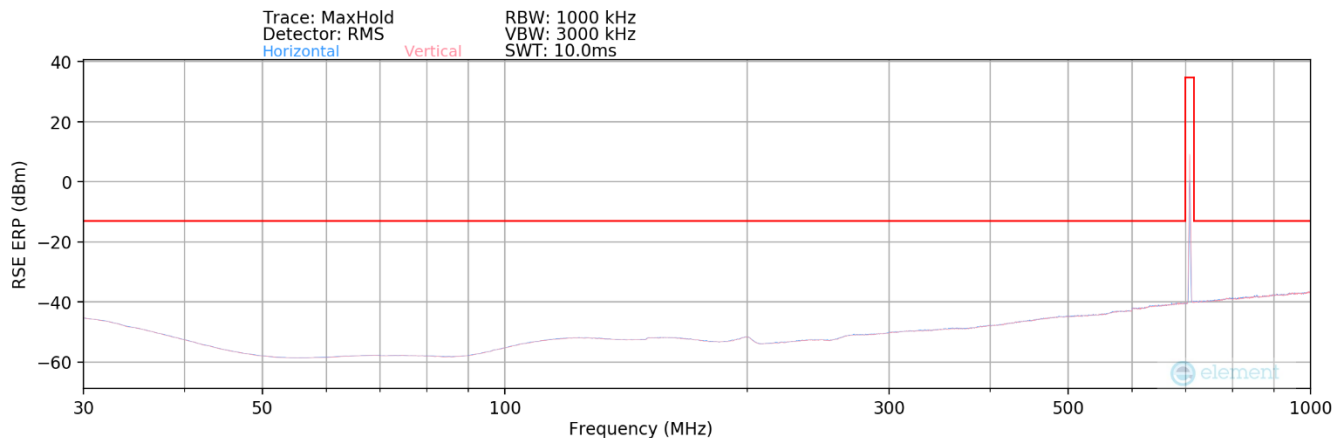
Table 7-14. Far-Field Distance & Measurement Distance per Frequency Range

- 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, n48, n66 and n77 as anchor bands.
- 12) LTE 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, LTE Band B12 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 12)

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]
175.00	Low	50	2Tx	QPSK	V	-	-	-61.23	-13.00	-48.23
212.00	Mid	50	2Tx	QPSK	V	-	-	-61.64	-13.00	-48.64
255.00	High	50	2Tx	QPSK	V	-	-	-60.81	-13.00	-47.81

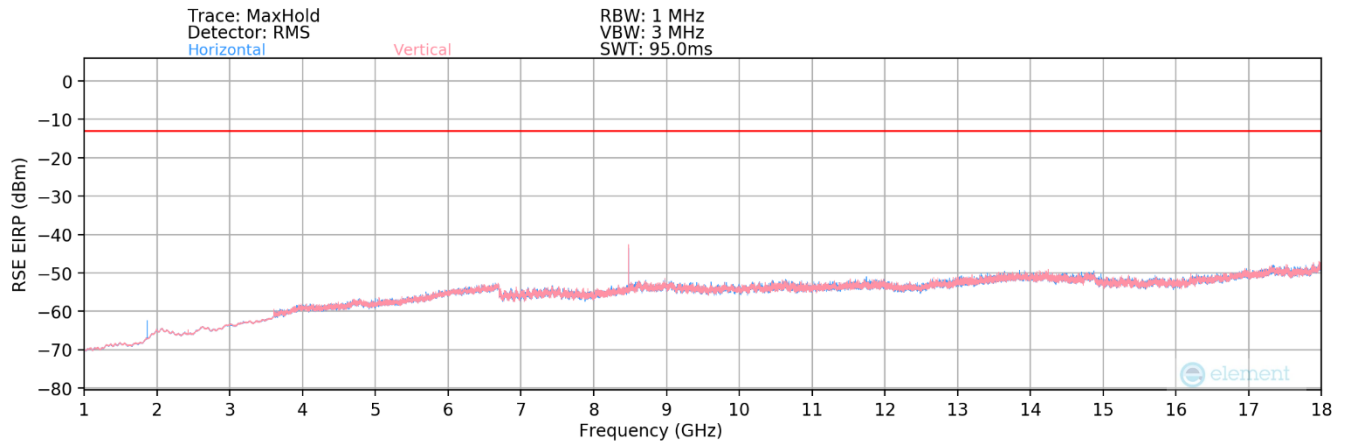
Table 7-15. n258-R1 Radiated Spurious Emissions Table (30MHz - 1GHz)

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 12)

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]
2146.50	Low	50	2Tx	QPSK	H	-	-	-68.27	-13.00	-55.27
8404.00	Low	50	2Tx	QPSK	V	252	308	-42.65	-13.00	-29.65
1894.55	Mid	50	2Tx	QPSK	H	387	353	-67.36	-13.00	-54.36
2122.80	Mid	50	2Tx	QPSK	H	264	363	-62.99	-13.00	-49.99
8479.20	Mid	50	2Tx	QPSK	V	240	305	-44.15	-13.00	-31.15
8553.70	High	50	2Tx	QPSK	V	237	305	-43.34	-13.00	-30.34
11305.80	High	50	2Tx	QPSK	V	-	-	-56.86	-13.00	-43.86

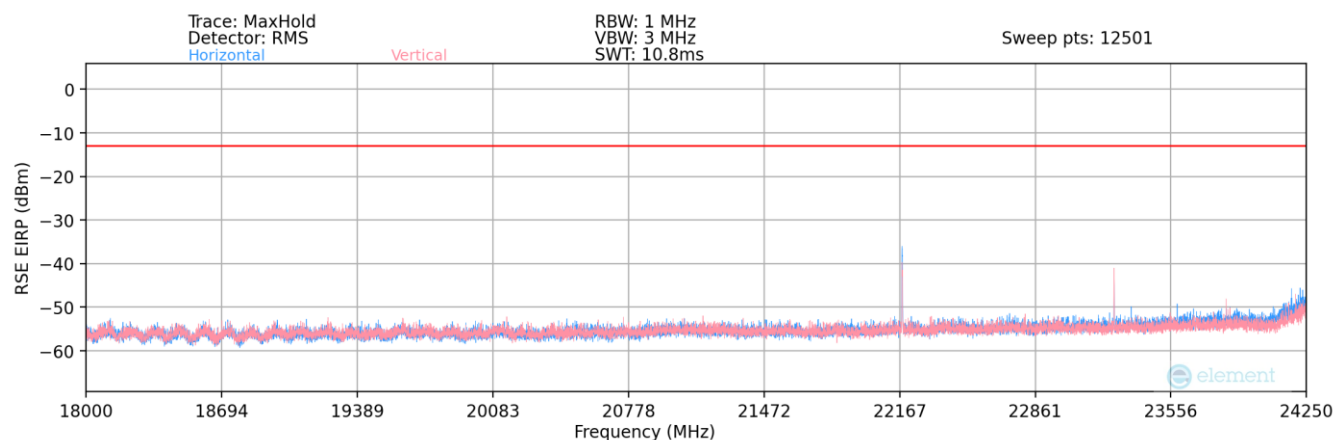
Table 7-16. n258-R1 Radiated Spurious Emissions Table (1GHz - 18GHz)

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.

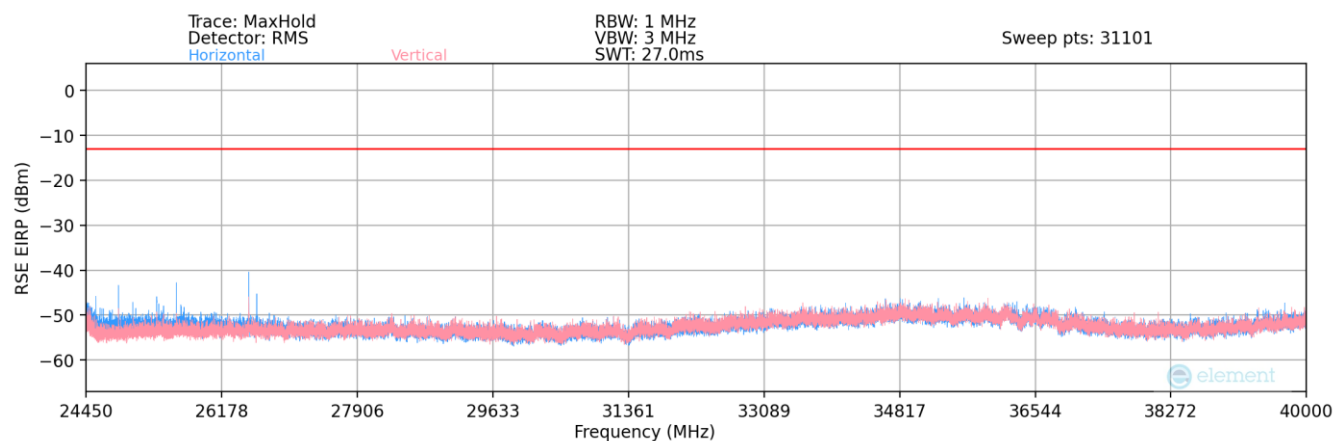
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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18GHz-24.25GHz



Plot 7-153. n258-R1 Radiated Spurious Plot

24.45GHz-40GHz



Plot 7-154. n258-R1 Radiated Spurious Plot

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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]
22405.00	Low	50	2Tx	QPSK	H	150	295	-43.83	-13.00	-30.83
23340.00	Low	50	2Tx	QPSK	H	150	9	-50.65	-13.00	-37.65
26145.00	Low	50	2Tx	QPSK	H	150	291	-48.71	-13.00	-35.71
22179.80	Mid	50	2Tx	QPSK	H	150	15	-41.15	-13.00	-28.15
23264.90	Mid	50	2Tx	QPSK	V	150	204	-44.90	-13.00	-31.90
24447.00	Mid	50	2Tx	QPSK	H	150	294	-39.53	-13.00	-26.53
24862.40	Mid	50	2Tx	QPSK	H	150	295	-46.02	-13.00	-33.02
26521.70	Mid	50	2Tx	QPSK	H	150	345	-46.94	-13.00	-33.94
26623.80	Mid	50	2Tx	QPSK	H	150	329	-49.63	-13.00	-36.63
21955.00	High	50	2Tx	QPSK	H	150	330	-44.69	-13.00	-31.69
23189.80	High	50	2Tx	QPSK	H	150	18	-48.12	-13.00	-35.12
26896.00	High	50	2Tx	QPSK	H	150	330	-47.35	-13.00	-34.35

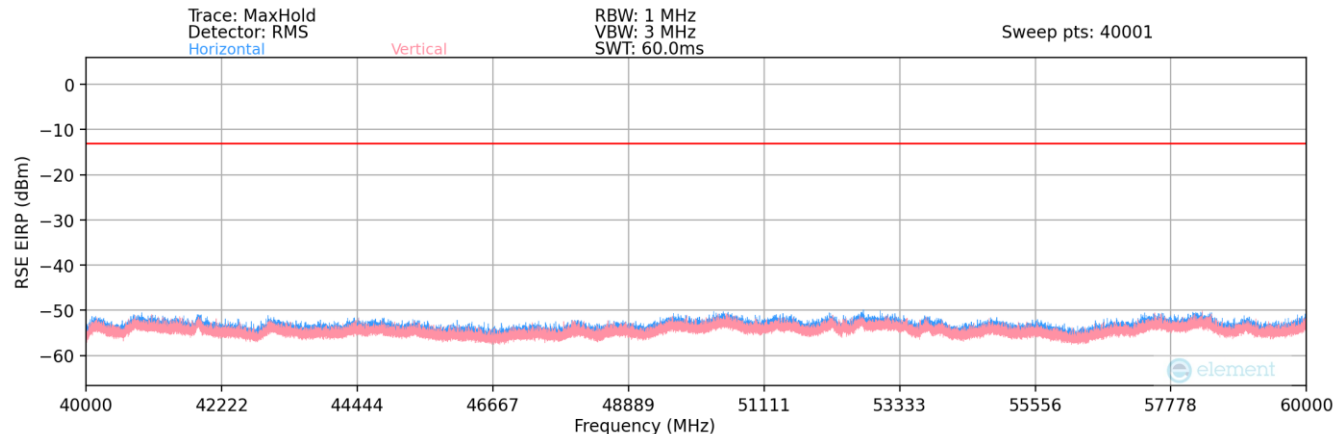
Table 7-17. n258-R1 Radiated Spurious Emissions Table (18GHz - 40GHz)

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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
48550.08	Low	50	2Tx	QPSK	H	-	-	-51.83	-13.00	-38.83
48700.09	Mid	50	2Tx	QPSK	H	-	-	-51.32	-13.00	-38.32
48849.84	High	50	2Tx	QPSK	H	-	-	-51.90	-13.00	-38.90

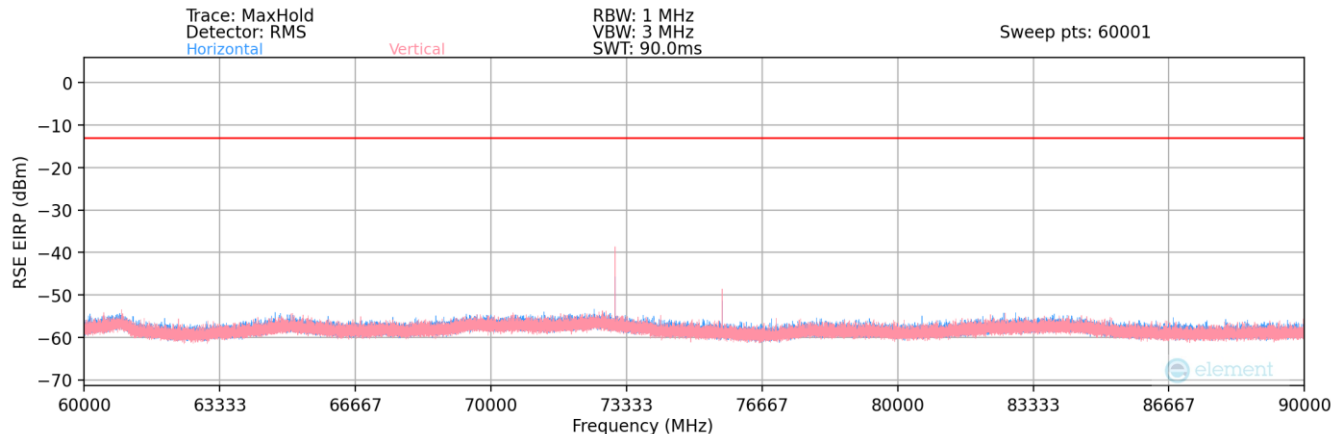
Table 7-18. n258-R1 Radiated Spurious Emissions Table (40GHz - 60GHz)

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.

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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]
72825.12	Low	50	2Tx	QPSK	V	287	18	-41.58	-13.00	-28.58
73050.12	Mid	50	2Tx	QPSK	V	279	123	-39.59	-13.00	-26.59
73274.76	High	50	2Tx	QPSK	V	285	31	-40.33	-13.00	-27.33

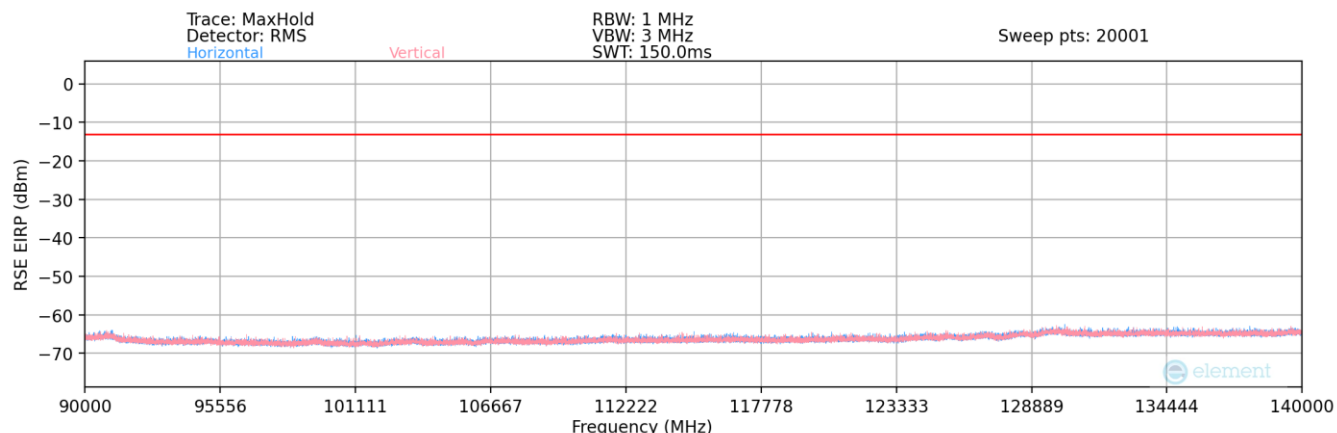
Table 7-19. n258-R1 Radiated Spurious Emissions Table (60GHz - 90GHz)

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.

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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.

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

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]
97100.16	Low	50	2Tx	QPSK	H	-	-	-69.76	-13.00	-56.76
97400.16	Mid	50	2Tx	QPSK	H	-	-	-69.56	-13.00	-56.56
97699.68	High	50	2Tx	QPSK	H	-	-	-69.50	-13.00	-56.50

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

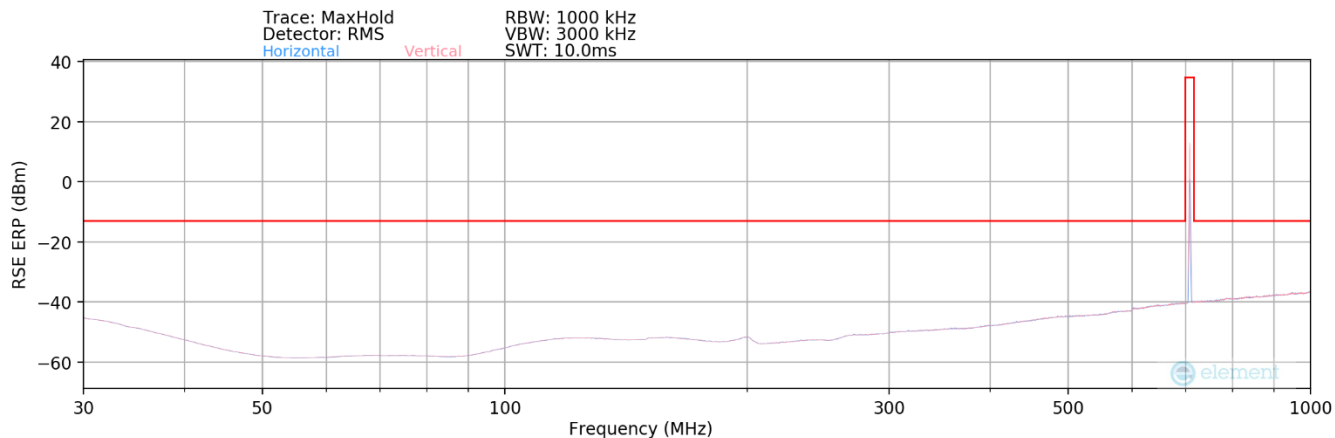
Notes

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.

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Band n258-R2 – Ant 1

30MHz - 1GHz



Plot 7-158. n258-R2 Radiated Spurious Plot (EN-DC Anchor LTE Band 12)

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]
225.00	Low	50	2Tx	QPSK	V	-	-	-61.28	-13.00	-48.28
356.00	Mid	50	2Tx	QPSK	V	-	-	-57.15	-13.00	-44.15
472.00	High	50	2Tx	QPSK	V	-	-	-53.78	-13.00	-40.78

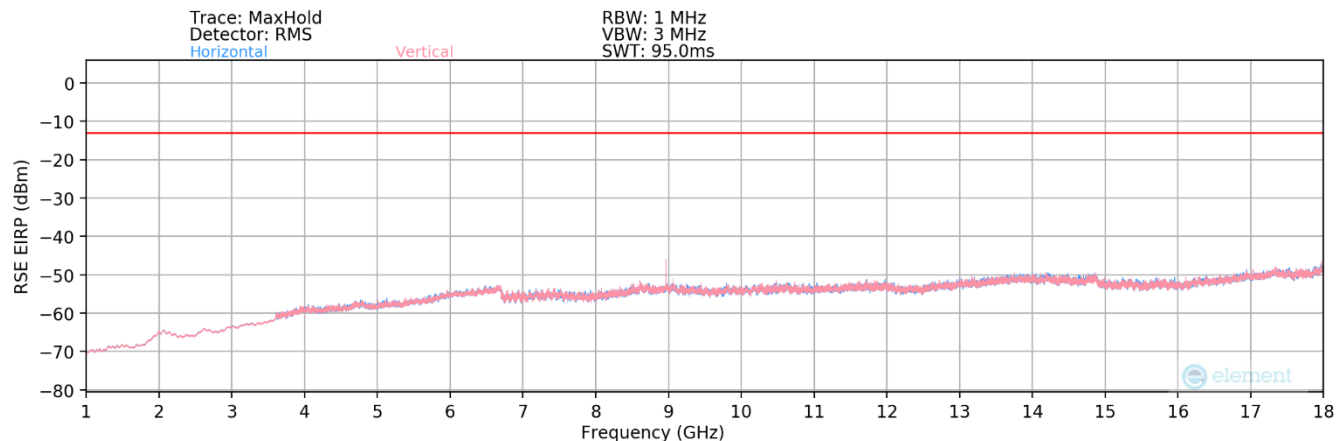
Table 7-21. n258-R2 Radiated Spurious Emissions Table (30MHz - 1GHz)

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 12)

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]
8903.50	Low	50	2Tx	QPSK	V	373	52	-46.45	-13.00	-33.45
8964.50	Mid	50	2Tx	QPSK	V	382	52	-48.14	-13.00	-35.14
10480.20	Mid	50	2Tx	QPSK	V	-	-	-57.39	-13.00	-44.39
9097.70	High	50	2Tx	QPSK	V	368	52	-48.87	-13.00	-35.87

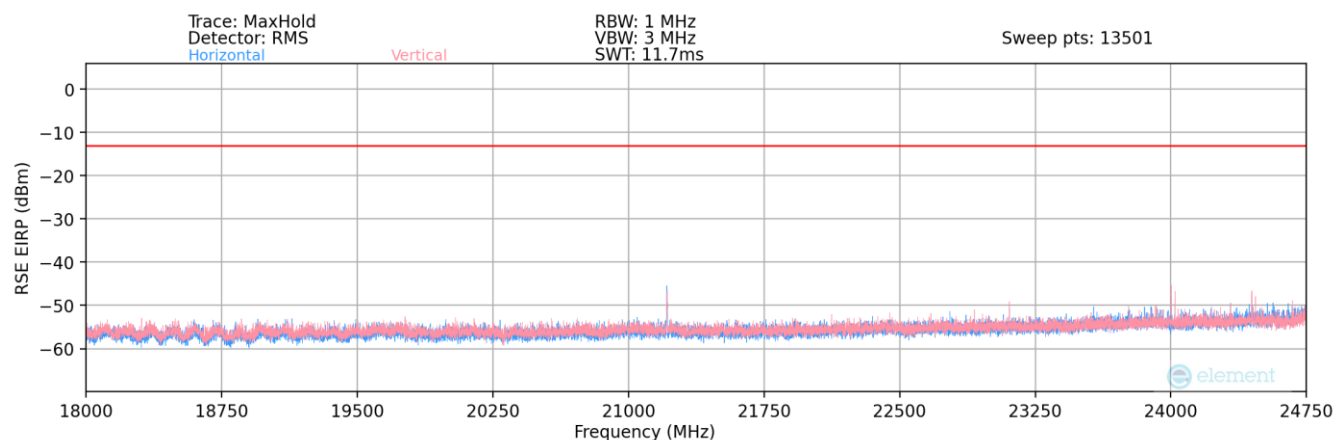
Table 7-22. n258-R2 Radiated Spurious Emissions Table (1GHz - 18GHz)

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.

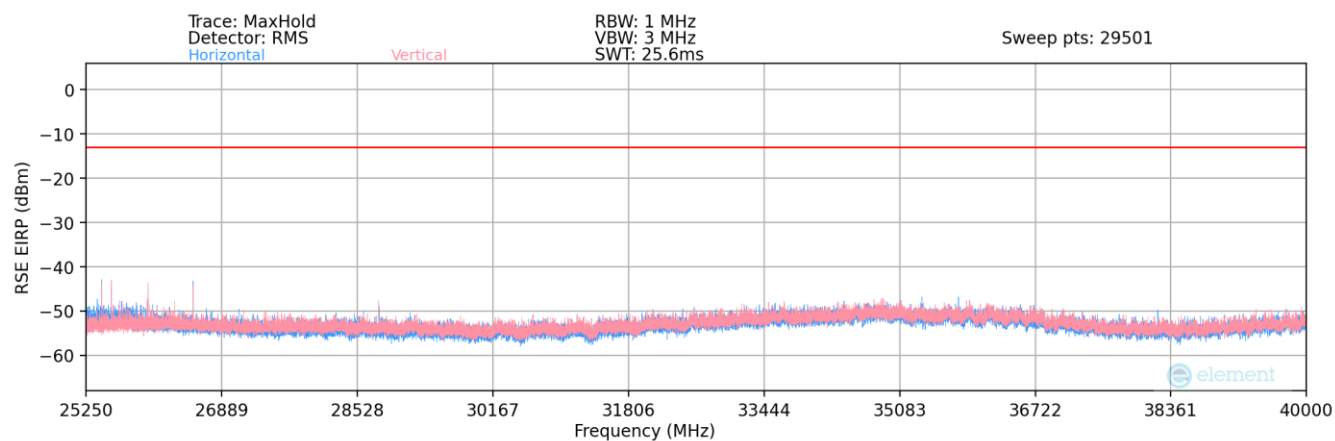
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18GHz-24.75GHz



Plot 7-160. n258-R2 Radiated Spurious Plot

25.25GHz-40GHz



Plot 7-161. n258-R2 Radiated Spurious Plot

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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]
20905.00	Low	50	2Tx	QPSK	H	150	24	-48.00	-13.00	-35.00
22839.00	Low	50	2Tx	QPSK	H	150	9	-50.88	-13.00	-37.88
25774.00	Low	50	2Tx	QPSK	H	150	45	-42.89	-13.00	-29.89
21211.80	Mid	50	2Tx	QPSK	H	150	349	-50.79	-13.00	-37.79
24002.00	Mid	50	2Tx	QPSK	V	150	340	-48.71	-13.00	-35.71
25436.00	Mid	50	2Tx	QPSK	H	150	360	-47.27	-13.00	-34.27
25553.00	Mid	50	2Tx	QPSK	V	150	338	-48.18	-13.00	-35.18
25998.00	Mid	50	2Tx	QPSK	V	150	341	-47.51	-13.00	-34.51
26541.90	Mid	50	2Tx	QPSK	H	150	339	-48.95	-13.00	-35.95
21091.00	High	50	2Tx	QPSK	H	150	335	-49.33	-13.00	-36.33
23157.00	High	50	2Tx	QPSK	H	150	14	-57.19	-13.00	-44.19
25762.00	High	50	2Tx	QPSK	H	150	89	-48.89	-13.00	-35.89

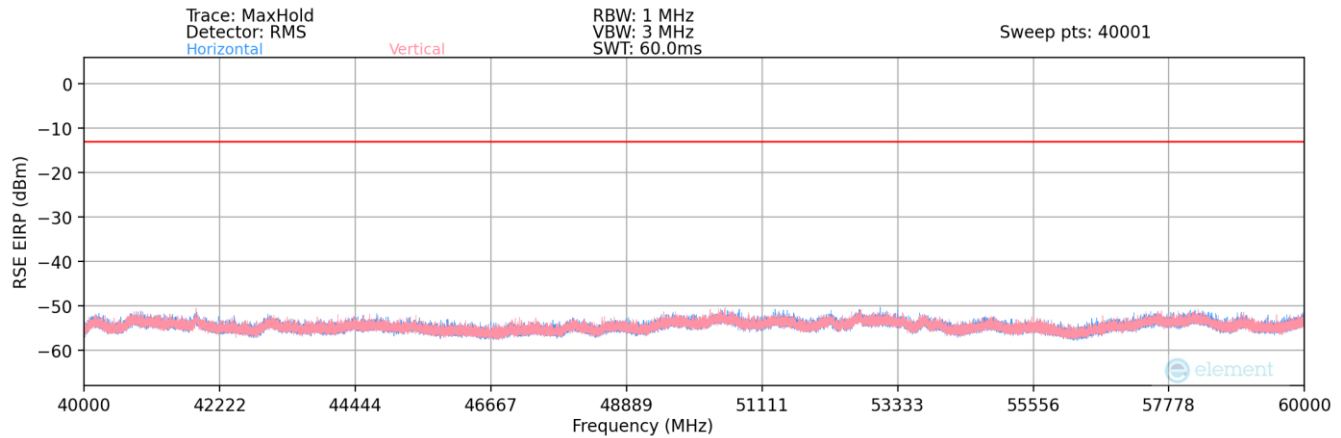
Table 7-23. n258-R2 Radiated Spurious Emissions Table (18GHz - 40GHz)

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.

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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]
49550.16	Low	50	2Tx	QPSK	H	-	-	-50.49	-13.00	-37.49
49999.92	Mid	50	2Tx	QPSK	H	106	143	-46.42	-13.00	-33.42
50499.92	High	50	2Tx	QPSK	H	-	-	-49.68	-13.00	-36.68

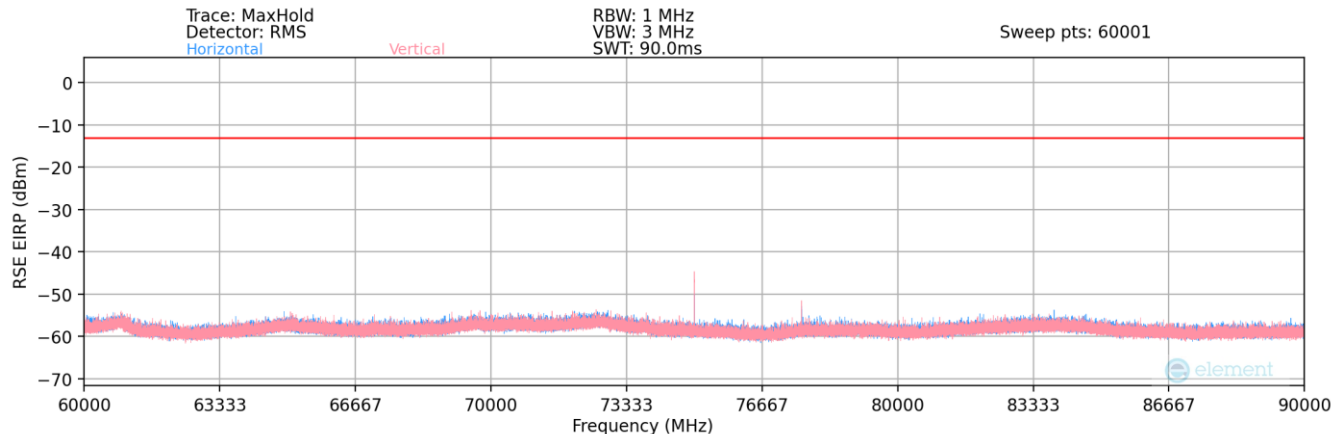
Table 7-24. n258-R2 Radiated Spurious Emissions Table (40GHz - 60GHz)

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.

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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]
74325.24	Low	50	2Tx	QPSK	V	309	73	-43.81	-13.00	-30.81
74999.88	Mid	50	2Tx	QPSK	V	297	118	-45.13	-13.00	-32.13
75674.88	High	50	2Tx	QPSK	V	313	121	-46.35	-13.00	-33.35

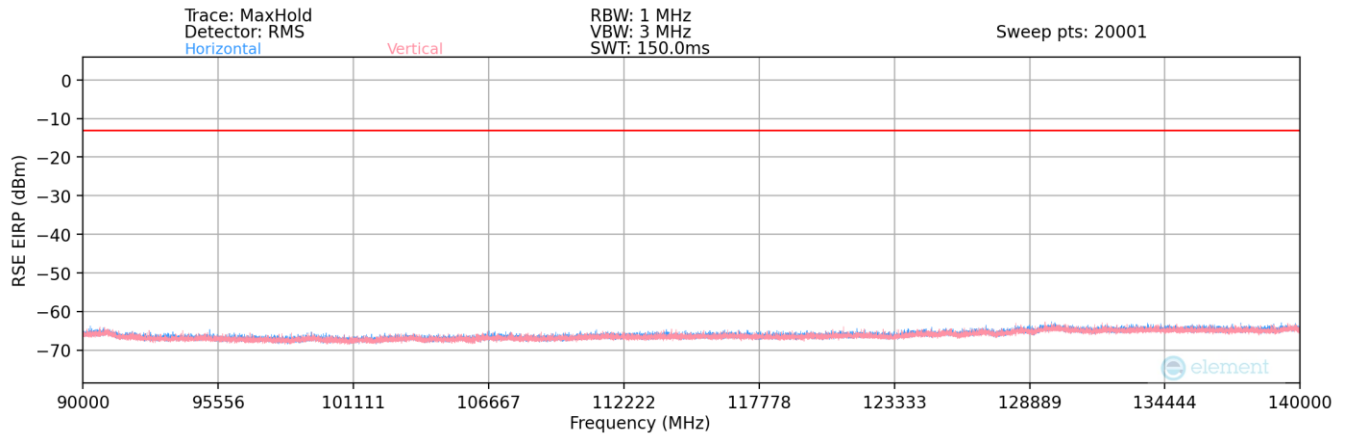
Table 7-25. n258-R2 Radiated Spurious Emissions Table (60GHz - 90GHz)

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: A3LSMS948U	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.

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]
99100.32	Low	50	2Tx	QPSK	H	-	-	-69.82	-13.00	-56.82
99999.84	Mid	50	2Tx	QPSK	H	-	-	-69.32	-13.00	-56.32
100899.84	High	50	2Tx	QPSK	H	-	-	-69.47	-13.00	-56.47

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

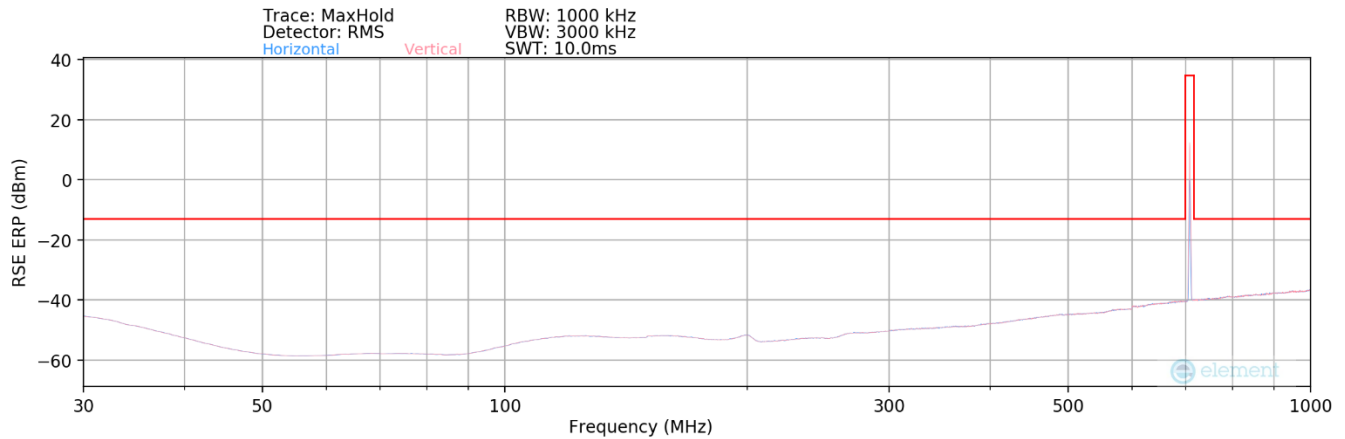
Notes

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: A3LSMS948U	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 12)

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]
303.80	Low	50	2Tx	QPSK	V	-	-	-58.51	-13.00	-45.51
273.00	Mid	50	2Tx	QPSK	V	-	-	-59.06	-13.00	-46.06
347.44	High	50	2Tx	QPSK	V	-	-	-57.39	-13.00	-44.39

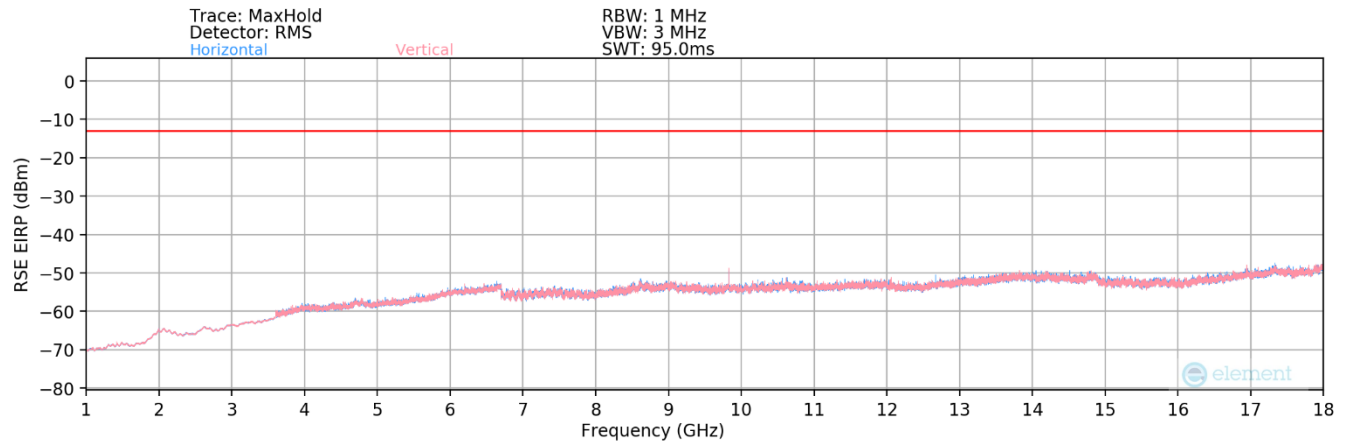
Table 7-27. n261 Radiated Spurious Emissions Table (30MHz - 1GHz)

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.

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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1GHz - 18GHz



Plot 7-166. n261 Radiated Spurious Plot (EN-DC Anchor LTE Band 12)

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]
9785.00	Low	50	2Tx	QPSK	V	366	73	-53.29	-13.00	-40.29
12735.50	Low	50	2Tx	QPSK	V	-	-	-56.37	-13.00	-43.37
9831.55	Mid	50	2Tx	QPSK	V	389	30	-48.60	-13.00	-35.60
12363.00	Mid	50	2Tx	QPSK	H	-	-	-57.10	-13.00	-44.10
8972.00	High	50	2Tx	QPSK	V	244	37	-42.64	-13.00	-29.64
11309.00	High	50	2Tx	QPSK	V	-	-	-56.85	-13.00	-43.85

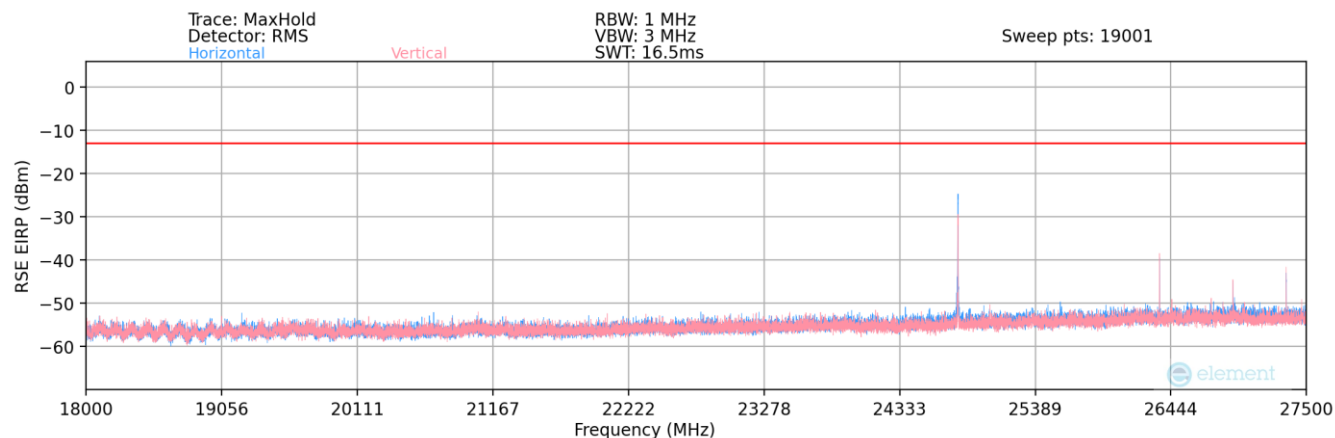
Table 7-28. n261 Radiated Spurious Emissions Table (1GHz - 18GHz)

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.

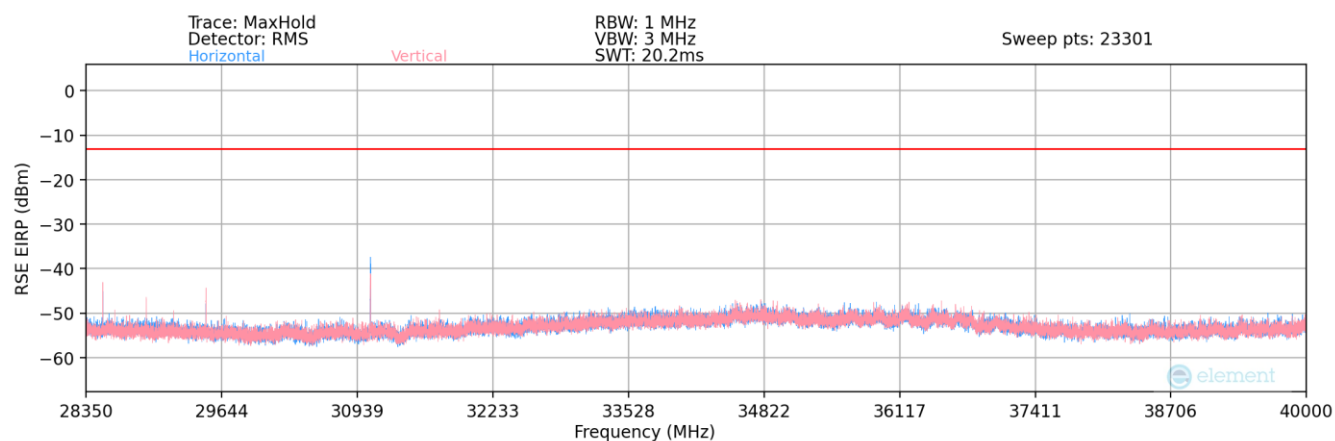
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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18GHz-27.5GHz



Plot 7-167. n261 Radiated Spurious Plot

28.35GHz-40GHz



Plot 7-168. n261 Radiated Spurious Plot

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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]
23868.00	Low	50	2Tx	QPSK	H	150	298	-31.46	-13.00	-18.46
25696.00	Low	50	2Tx	QPSK	H	150	66	-44.80	-13.00	-31.80
31184.00	Low	50	2Tx	QPSK	H	150	42	-46.99	-13.00	-33.99
24787.00	Mid	50	2Tx	QPSK	H	150	296	-30.19	-13.00	-17.19
26356.00	Mid	50	2Tx	QPSK	V	150	31	-40.26	-13.00	-27.26
26927.00	Mid	50	2Tx	QPSK	V	150	26	-47.78	-13.00	-34.78
28509.00	Mid	50	2Tx	QPSK	V	150	31	-44.64	-13.00	-31.64
29493.00	Mid	50	2Tx	QPSK	V	150	35	-45.65	-13.00	-32.65
31064.00	Mid	50	2Tx	QPSK	H	150	330	-44.54	-13.00	-31.54
25507.00	High	50	2Tx	QPSK	H	150	68	-48.82	-13.00	-35.82
26915.00	High	50	2Tx	QPSK	H	150	33	-48.45	-13.00	-35.45
29734.00	High	50	2Tx	QPSK	H	150	320	-45.47	-13.00	-32.47

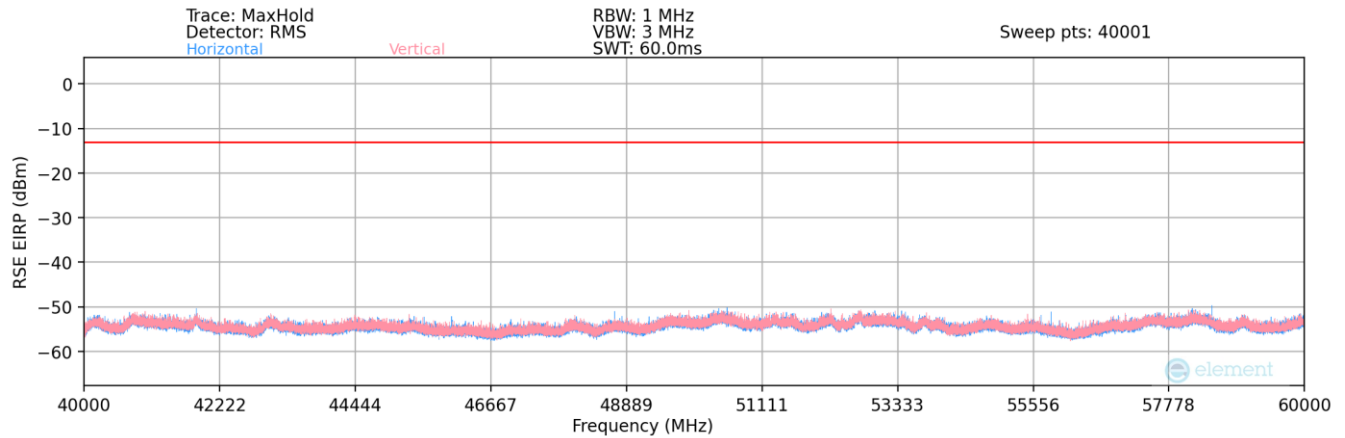
Table 7-29. n261 Radiated Spurious Emissions Table (18GHz - 40GHz)

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: A3LSMS948U	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]
55050.00	Low	50	2Tx	QPSK	H	313	84	-48.98	-13.00	-35.98
55850.97	Mid	50	2Tx	QPSK	H	102	33	-47.63	-13.00	-34.63
56649.84	High	50	2Tx	QPSK	H	72	250	-49.16	-13.00	-36.16

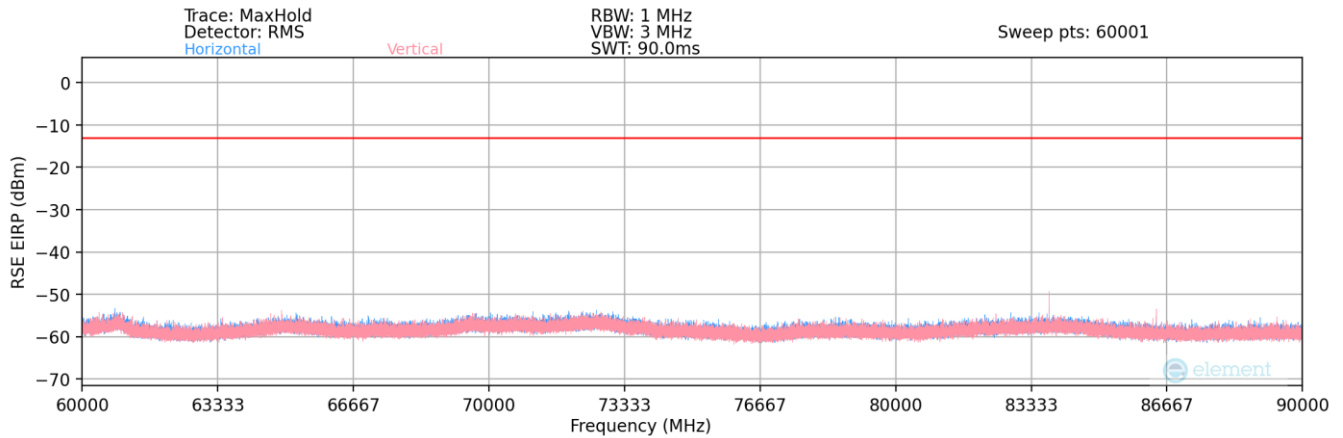
Table 7-30. n261 Radiated Spurious Emissions Table (40GHz - 60GHz)

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.

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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]
82575.00	Low	50	2Tx	QPSK	V	272	17	-55.02	-13.00	-42.02
83776.45	Mid	50	2Tx	QPSK	V	263	21	-54.06	-13.00	-41.06
84974.76	High	50	2Tx	QPSK	V	299	147	-51.81	-13.00	-38.81

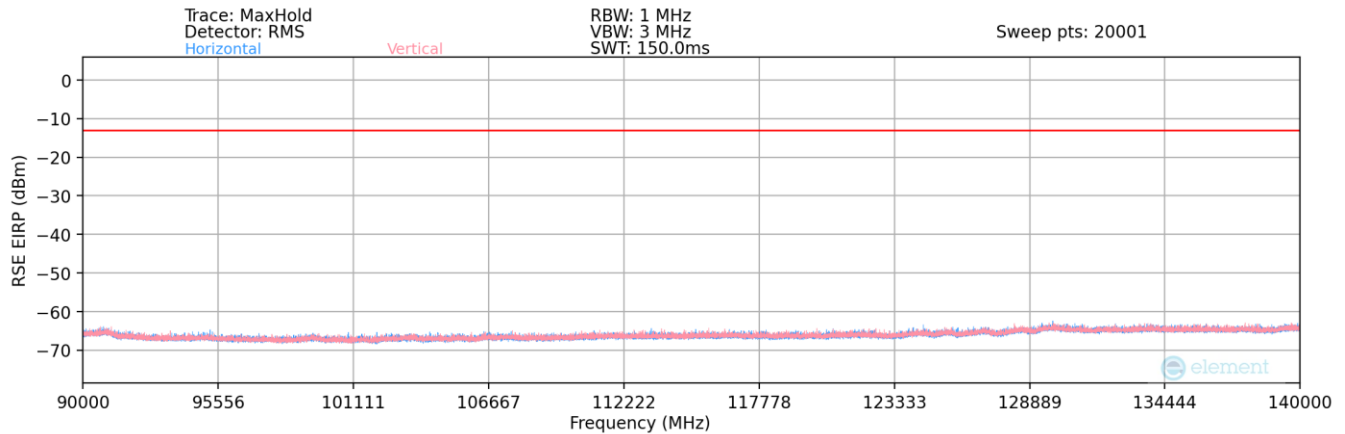
Table 7-31. n261 Radiated Spurious Emissions Table (60GHz - 90GHz)

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: A3LSMS948U	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]
110100.00	Low	50	2Tx	QPSK	H	-	-	-68.93	-13.00	-55.93
111699.84	Mid	50	2Tx	QPSK	H	-	-	-68.86	-13.00	-55.86
113299.68	High	50	2Tx	QPSK	H	-	-	-68.89	-13.00	-55.89

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

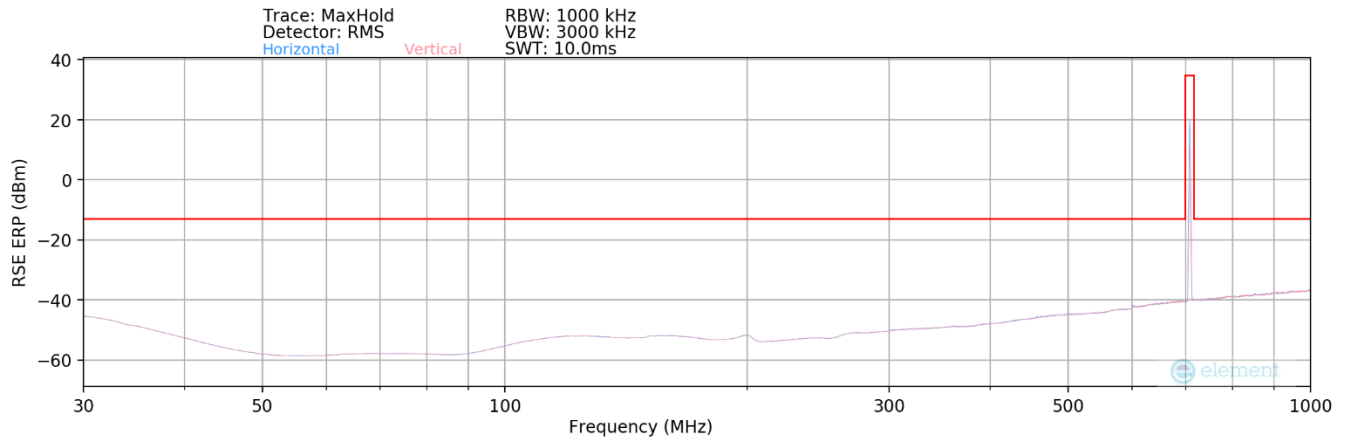
Notes

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: A3LSMS948U	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 12)

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]
331.00	Low	50	2Tx	QPSK	V	-	-	-57.71	-13.00	-44.71
588.00	Mid	50	2Tx	QPSK	V	-	-	-52.18	-13.00	-39.18
650.00	High	50	2Tx	QPSK	V	-	-	-51.21	-13.00	-38.21

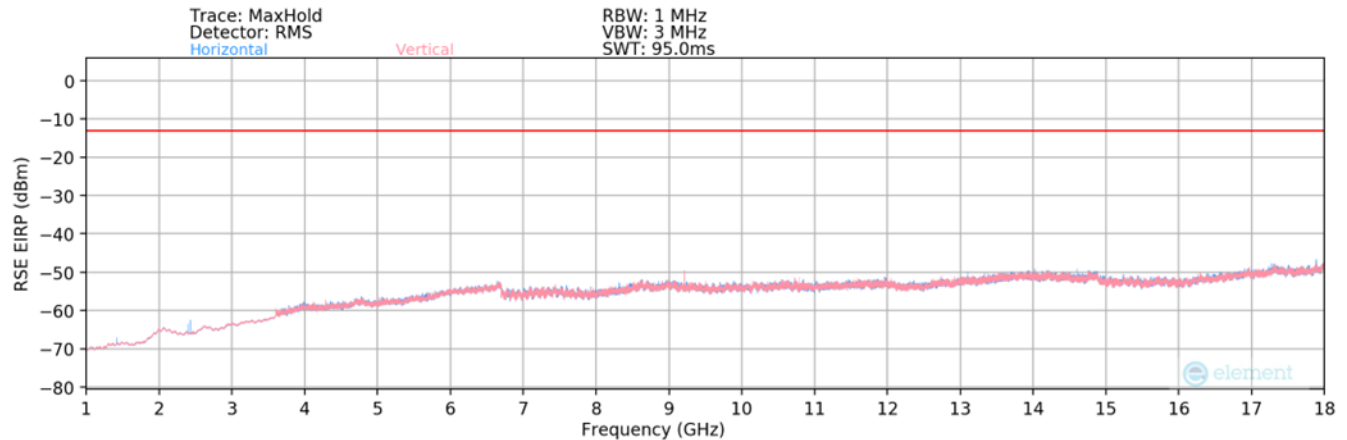
Table 7-33. n260 Radiated Spurious Emissions Table (30MHz - 1GHz)

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.

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1GHz - 18GHz



Plot 7-173. n260 Radiated Spurious Plot (EN-DC Anchor LTE Band 12)

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]
8354.00	Low	50	2Tx	QPSK	V	242	307	-42.06	-13.00	-29.06
9992.62	Low	50	2Tx	QPSK	V	-	-	-57.23	-13.00	-44.23
1415.10	Mid	50	2Tx	QPSK	H	-	-	-71.54	-13.00	-58.54
2633.40	Mid	50	2Tx	QPSK	H	359	227	-67.83	-13.00	-54.83
9214.00	Mid	50	2Tx	QPSK	V	245	310	-49.02	-13.00	-36.02
8795.00	High	50	2Tx	QPSK	V	121	305	-45.29	-13.00	-32.29
11301.00	High	50	2Tx	QPSK	V	-	-	-56.83	-13.00	-43.83

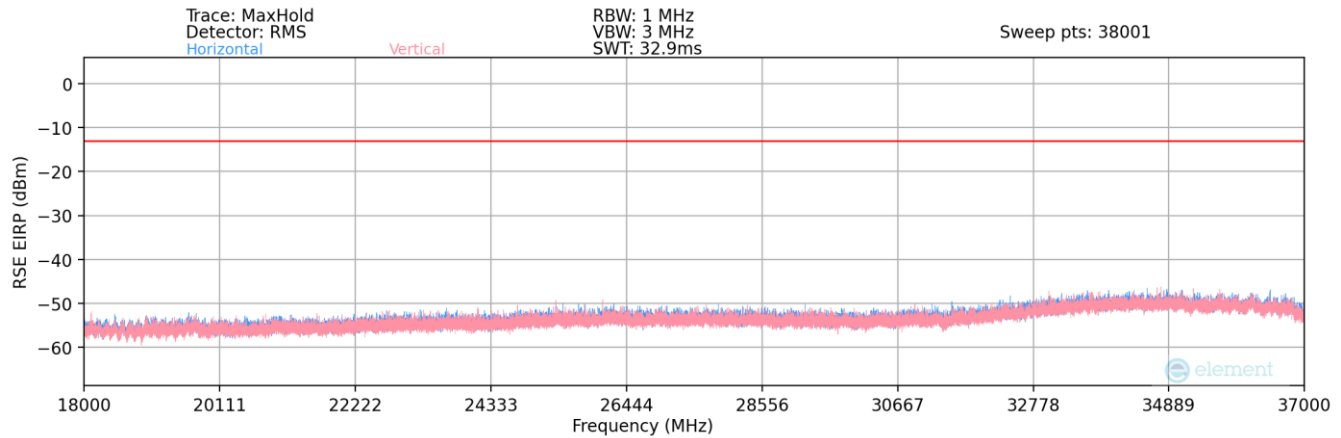
Table 7-34. n260 Radiated Spurious Emissions Table (1GHz - 18GHz)

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.

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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]
24177.00	Low	50	2Tx	QPSK	V	-	-	-59.50	-13.00	-46.50
32799.00	Low	50	2Tx	QPSK	V	-	-	-55.64	-13.00	-42.64
24176.00	Mid	50	2Tx	QPSK	V	150	115	-58.85	-13.00	-45.85
32724.00	Mid	50	2Tx	QPSK	V	-	-	-56.16	-13.00	-43.16
24176.00	High	50	2Tx	QPSK	V	150	213	-59.50	-13.00	-46.50
26586.00	High	50	2Tx	QPSK	V	-	-	-57.99	-13.00	-44.99

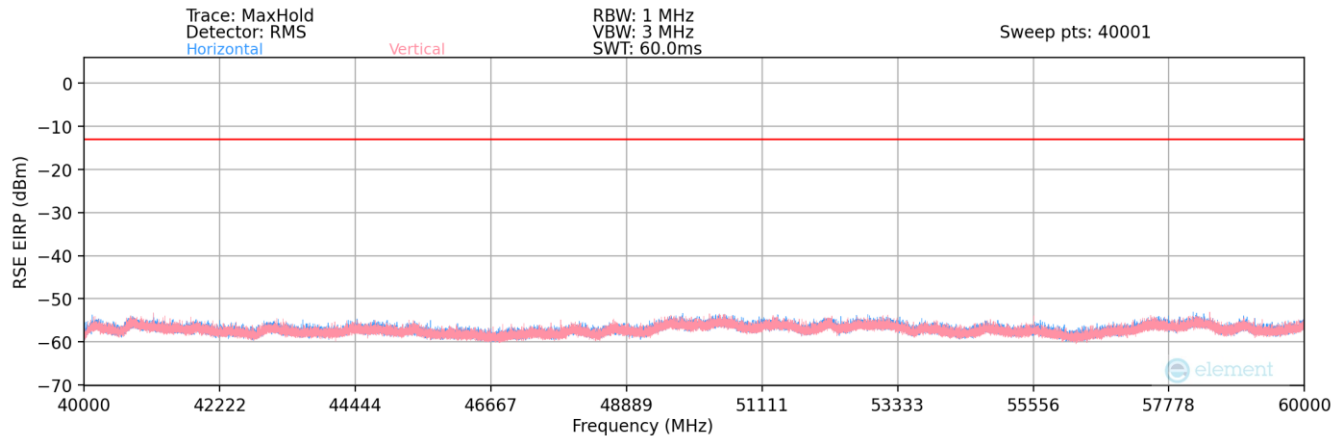
Table 7-35. n260 Radiated Spurious Emissions Table (18GHz - 37GHz)

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.

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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]
49806.00	Low	50	2Tx	QPSK	V	-	-	-52.87	-13.00	-39.87
50894.00	Mid	50	2Tx	QPSK	V	-	-	-53.58	-13.00	-40.58
52013.00	High	50	2Tx	QPSK	V	-	-	-53.73	-13.00	-40.73

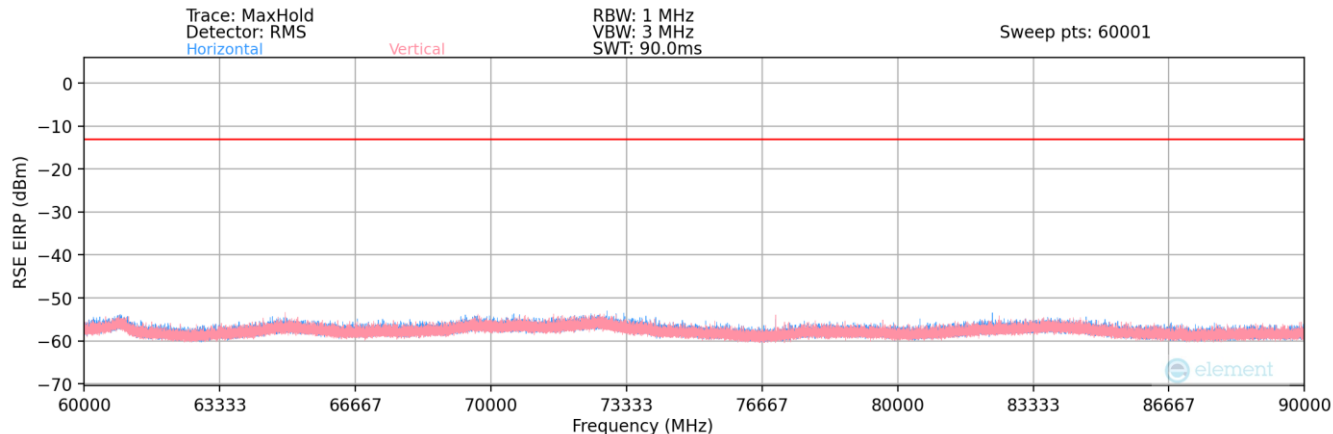
Table 7-36. n260 Radiated Spurious Emissions Table (40GHz - 60GHz)

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.

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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]
74050.08	Low	50	2Tx	QPSK	H	226	112	-44.69	-13.00	-31.69
76999.92	Mid	50	2Tx	QPSK	H	212	98	-49.17	-13.00	-36.17
79950.00	High	50	2Tx	QPSK	H	228	116	-49.04	-13.00	-36.04

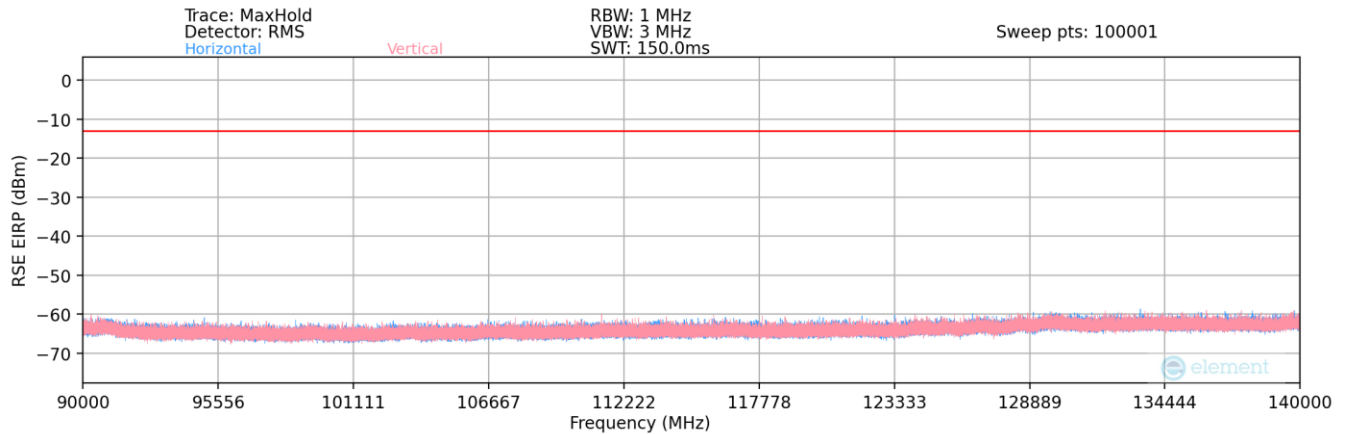
Table 7-37. n260 Radiated Spurious Emissions Table (60GHz - 90GHz)

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.

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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	H	-	-	-68.55	-13.00	-55.55
115499.88	Mid	50	2Tx	QPSK	H	-	-	-67.73	-13.00	-54.73
119925.00	High	50	2Tx	QPSK	H	-	-	-68.53	-13.00	-55.53

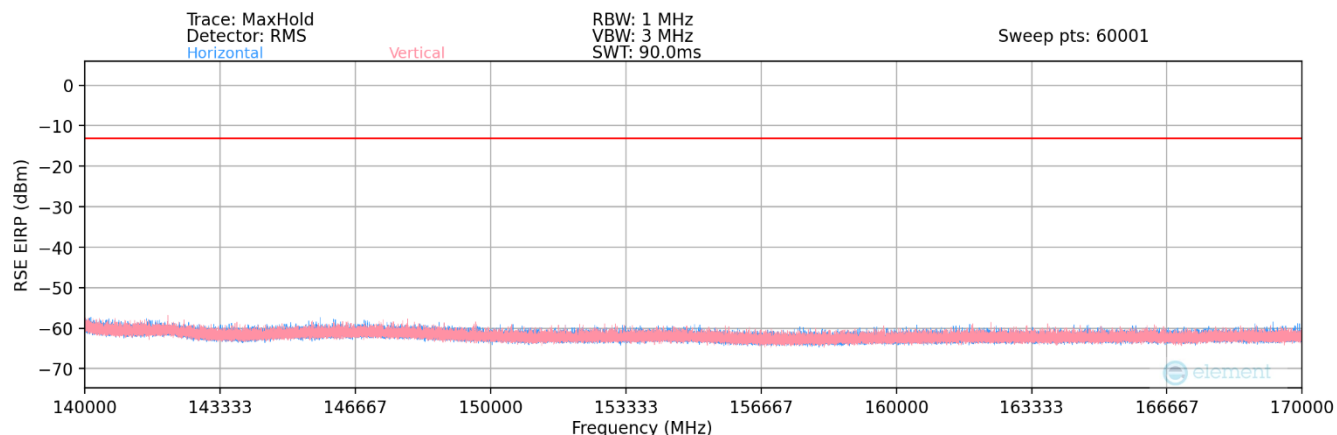
Table 7-38. n260 Radiated Spurious Emissions Table (90GHz - 140GHz)

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.

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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]
148100.16	Low	50	2Tx	QPSK	H	-	-	-63.47	-13.00	-50.47
153999.84	Mid	50	2Tx	QPSK	H	-	-	-64.62	-13.00	-51.62
159900.00	High	50	2Tx	QPSK	H	-	-	-64.00	-13.00	-51.00

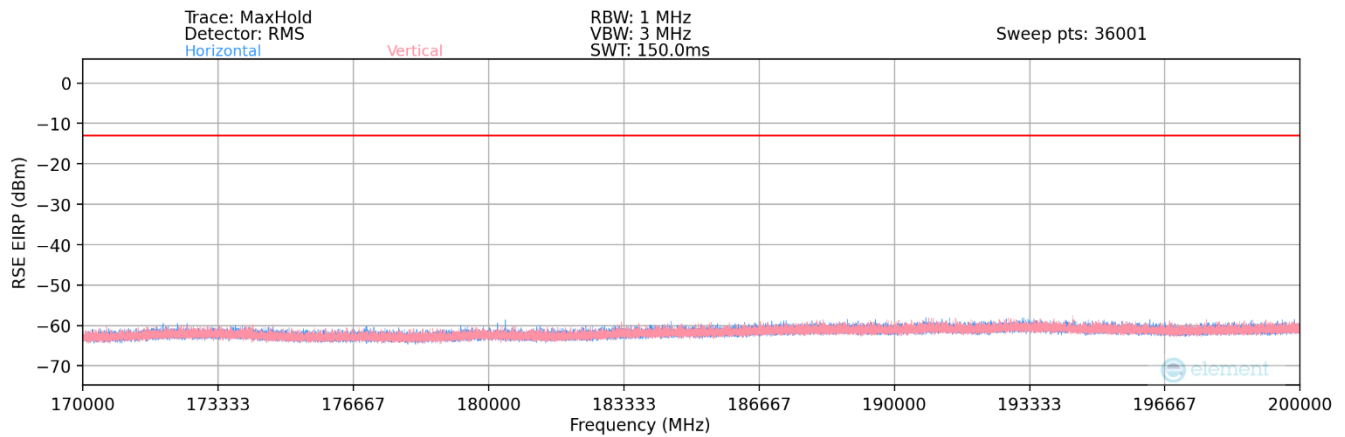
Table 7-39. n260 Radiated Spurious Emissions Table (140GHz - 170GHz)

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.

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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.

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]
185125.20	Low	50	2Tx	QPSK	H	-	-	-64.63	-13.00	-51.63
192499.80	Mid	50	2Tx	QPSK	H	-	-	-64.30	-13.00	-51.30
199875.00	High	50	2Tx	QPSK	H	-	-	-64.36	-13.00	-51.36

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.

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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

$$\begin{aligned} \text{Analyzer Offset (dB)} &= \text{AF (dB/m)} + \text{CL (dB)} + 107 + 20\log_{10}(D) - 104.8\text{dB}, \text{ where } D = 1\text{m} \\ &= 46.85\text{dB/m} + 9.18\text{dB} + 107 + 20\log_{10}(1\text{m}) - 104.8\text{dB} \\ &= 58.23\text{dB} \end{aligned}$$

Sample Analyzer Offset Calculation (at 23.6 - 24GHz)

Measurement Antenna Factor = 45.95 dB/m

Cable Loss = 9.18dB

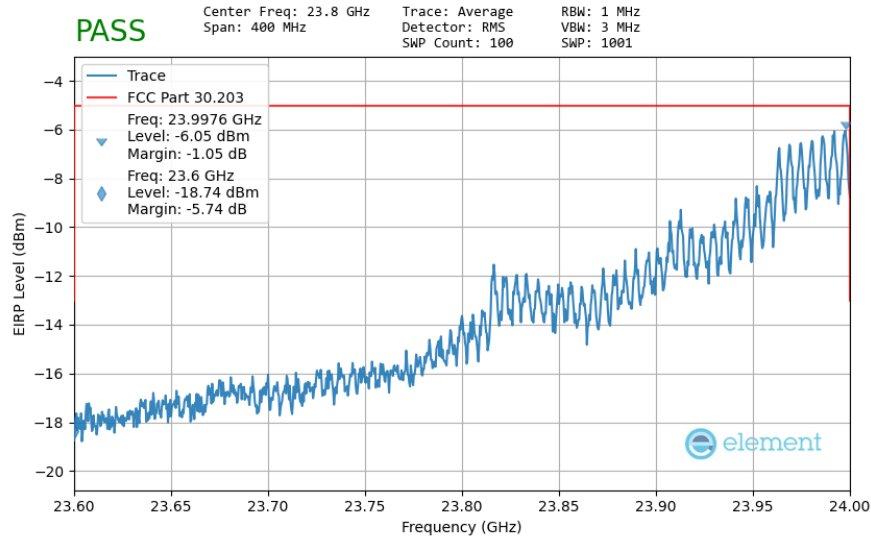
D = 1m

RBW = 1MHz

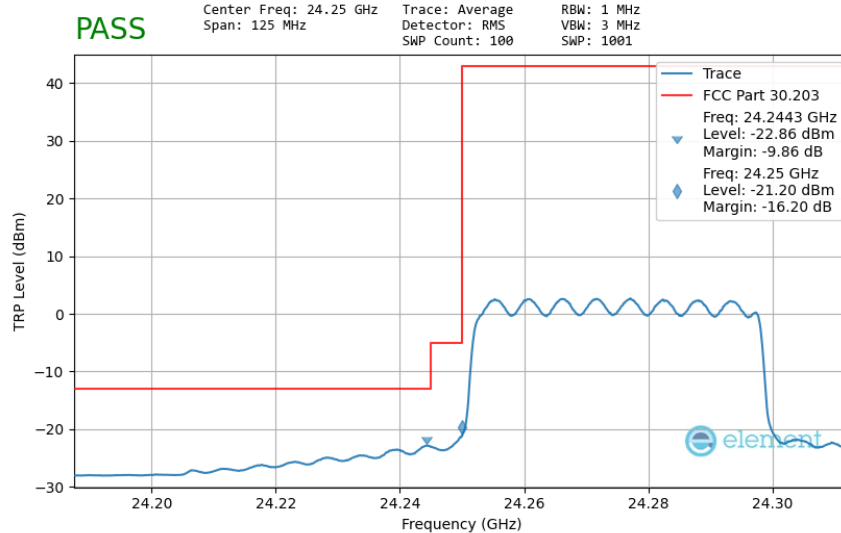
$$\begin{aligned} \text{Analyzer Offset (dB)} &= \text{AF (dB/m)} + \text{CL (dB)} + 107 + 20\log_{10}(D) - 104.8\text{dB} + 10\log_{10}(200\text{MHz}/\text{RBW}), \\ &= 45.95 \text{ dB/m} + 9.18\text{dB} + 107 + 20\log_{10}(1\text{m}) - 104.8\text{dB} + 10\log_{10}(200\text{MHz}/1\text{MHz}) \\ &= 80.34\text{dB} \end{aligned}$$

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Band n258-R1 – Worst Case

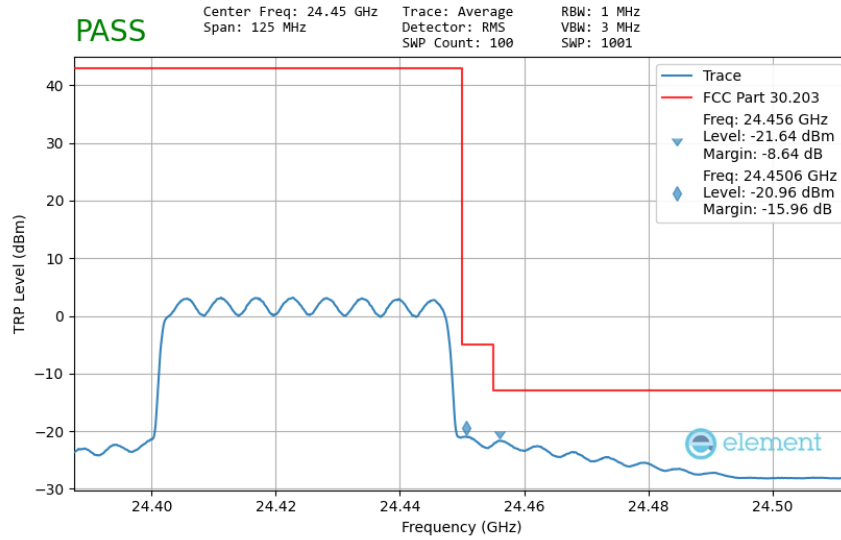


Plot 7-180.Ant 1 Lower Band Edge OOB 23.6-24GHz (100MHz-2CC – DFT-s -OFDM BPSK Full RB)

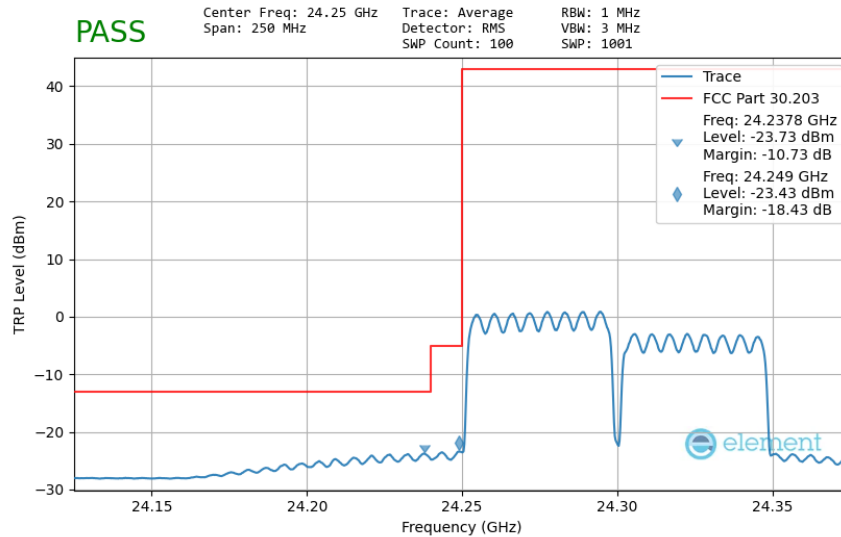


Plot 7-181.Ant 1 Lower Band Edge (50MHz-1CC – DFT-s -OFDM QPSK Full RB) – TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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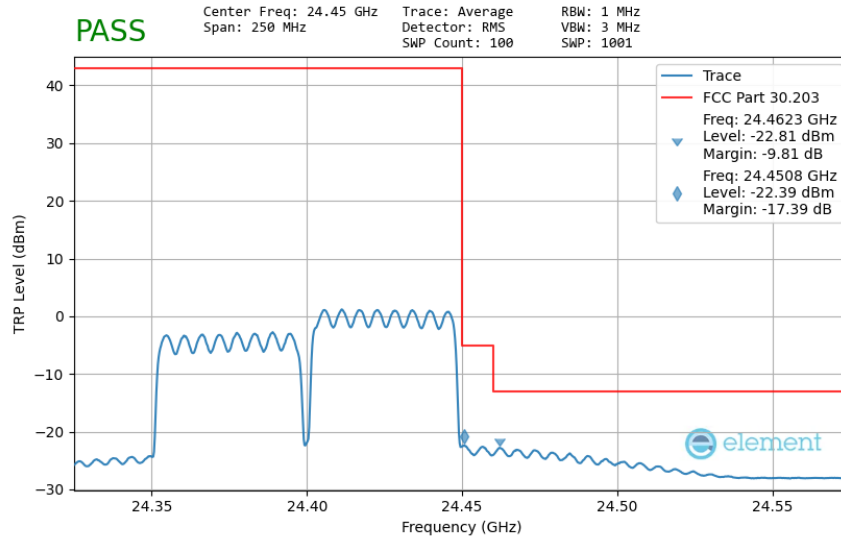


Plot 7-182. Ant 1 Upper Band Edge (50MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP

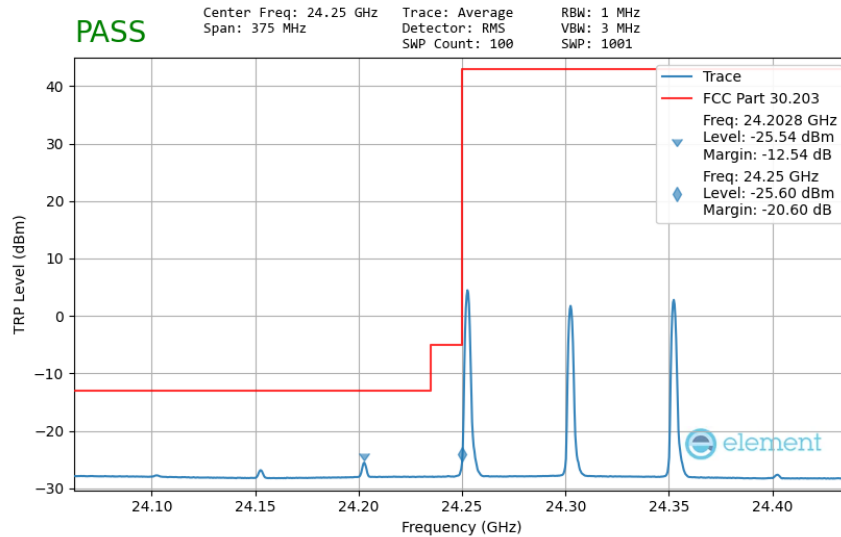


Plot 7-183. Ant 1 Lower Band Edge (50MHz-2CC- DFT-s -OFDM QPSK Full RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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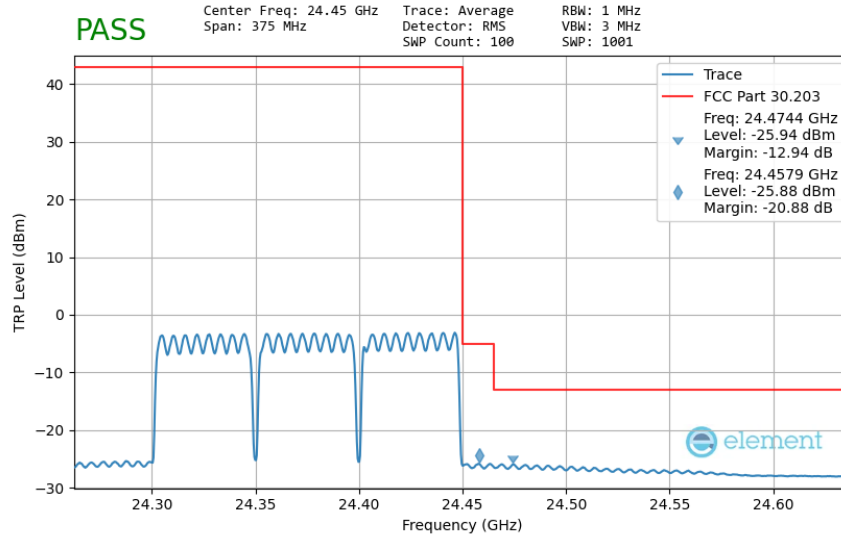


Plot 7-184.Ant 1 Upper Band Edge (50MHz-2CC – DFT-s -OFDM QPSK Full RB) - TRP

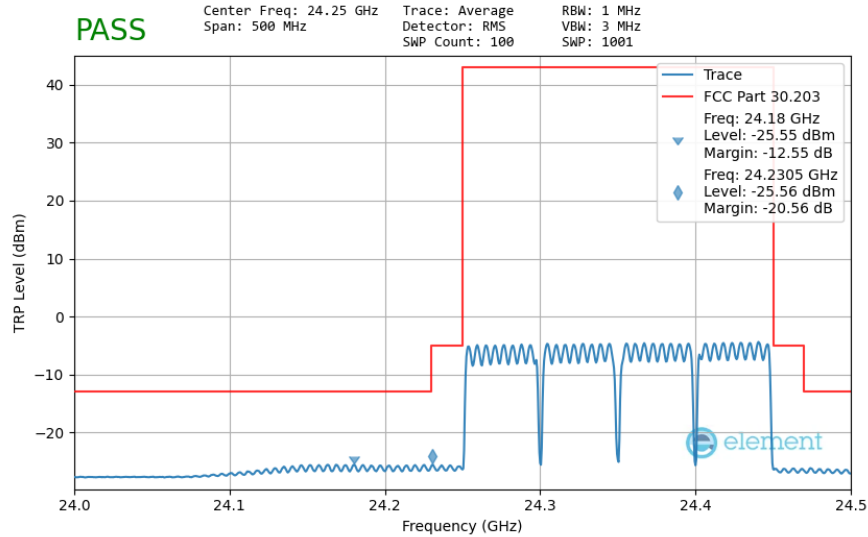


Plot 7-185.Ant 1 Lower Band Edge (50MHz-3CC- DFTs -OFDM BPSK 1 RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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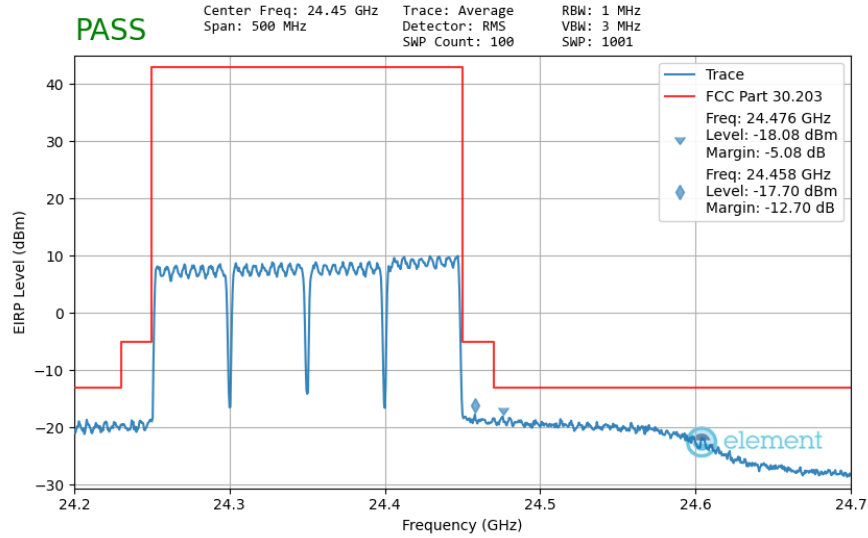


Plot 7-186.Ant 1 Upper Band Edge (50MHz-3CC – DFT-s -OFDM QPSK Full RB) - TRP

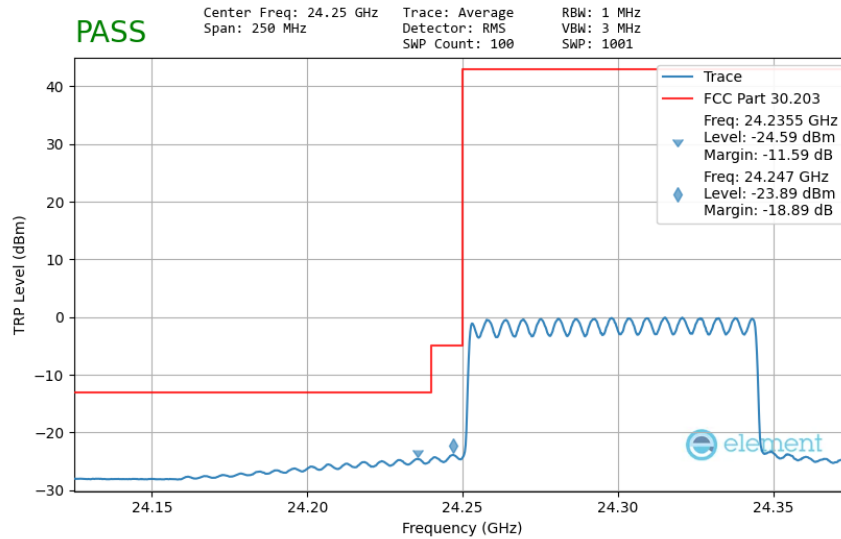


Plot 7-187.Ant 1 Lower Band Edge (50MHz-4CC- DFT-s -OFDM QPSK Full RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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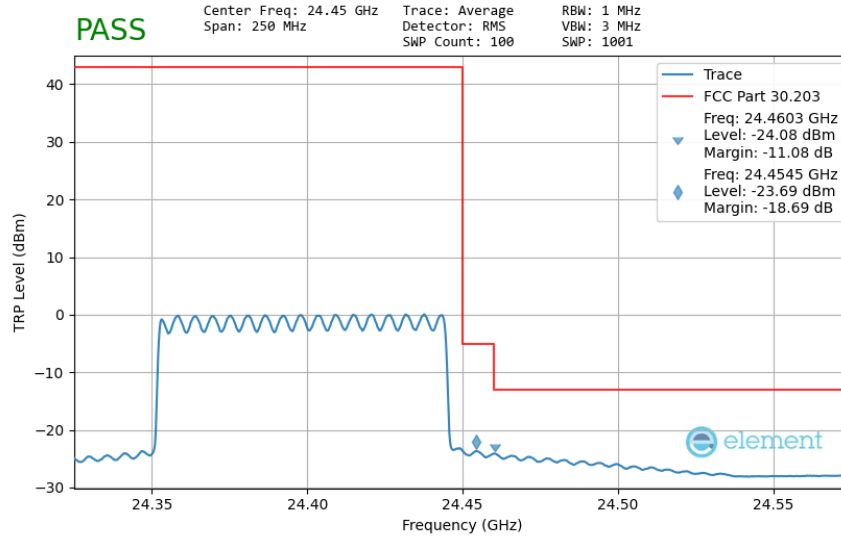


Plot 7-188.Ant 1 Upper Band Edge (50MHz-4CC - DFT-s -OFDM QPSK Full RB)

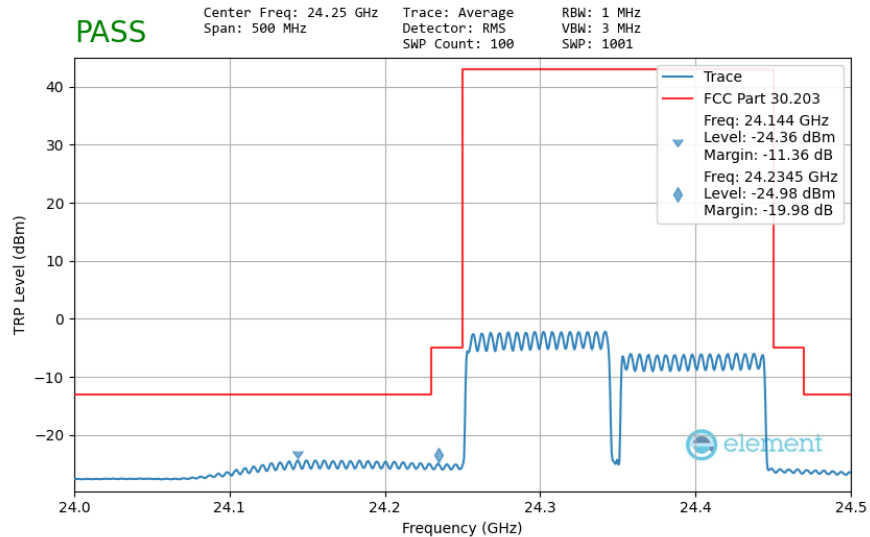


Plot 7-189.Ant 1 Lower Band Edge (100MHz-1CC – DFT-s -OFDM QPSK Full RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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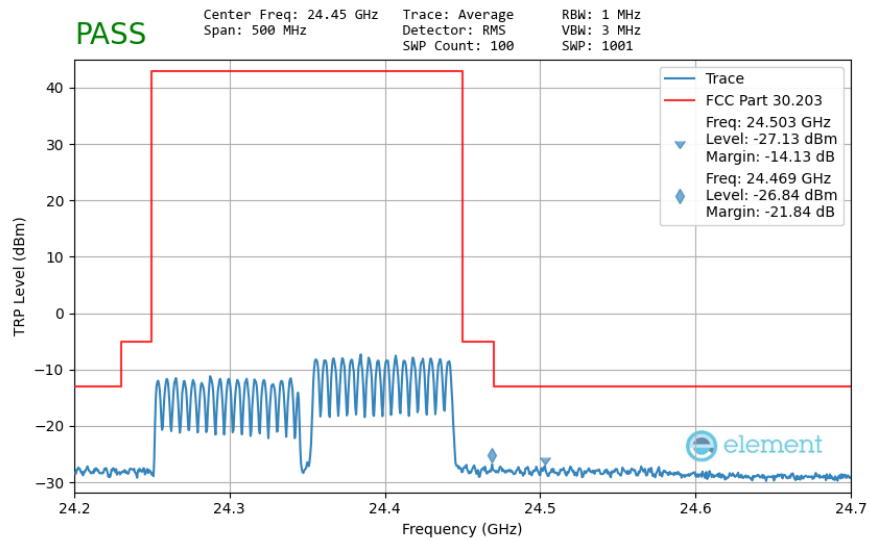


Plot 7-190.Ant 1 Upper Band Edge (100MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP



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

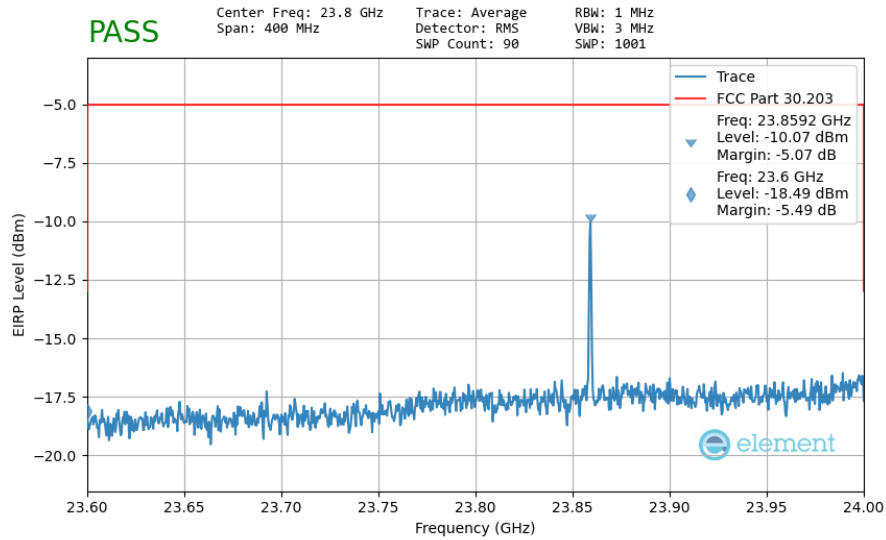
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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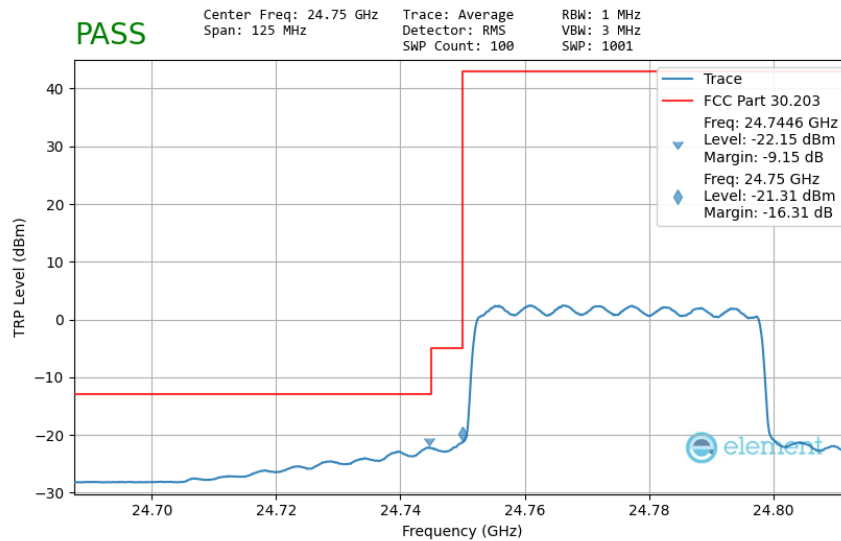
Plot 7-192.Ant 1 Upper Band Edge (100MHz-2CC – DFT-s-OFDM $\pi/2$ BPSK Full RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Band n258-R2 –Worst Case

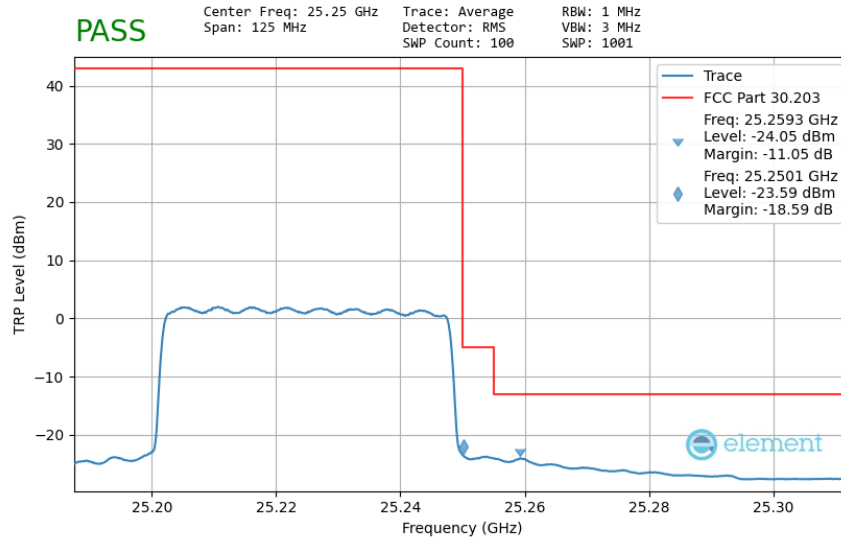


Plot 7-193. Ant 1 Lower Band Edge OOB 23.6-24GHz (100MHz-4CC – DFT-s-OFDM QPSK Full RB)

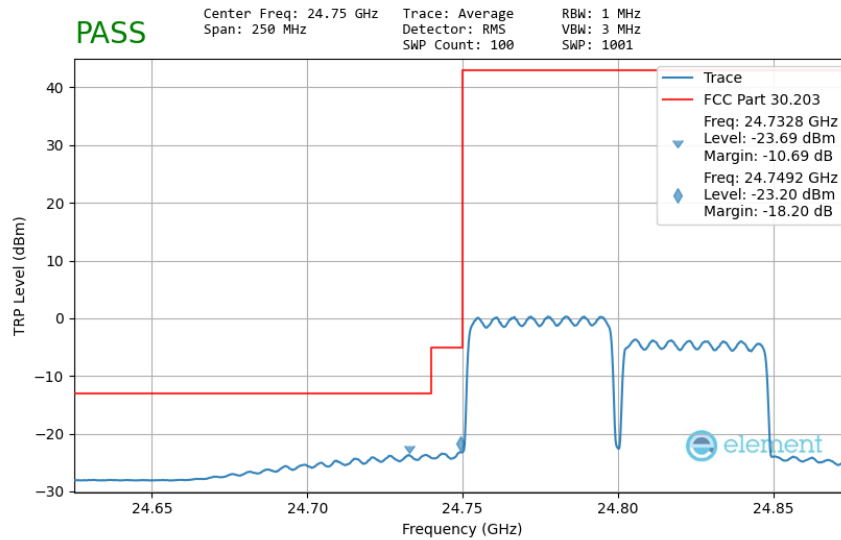


Plot 7-194. Ant 1 Lower Band Edge (50MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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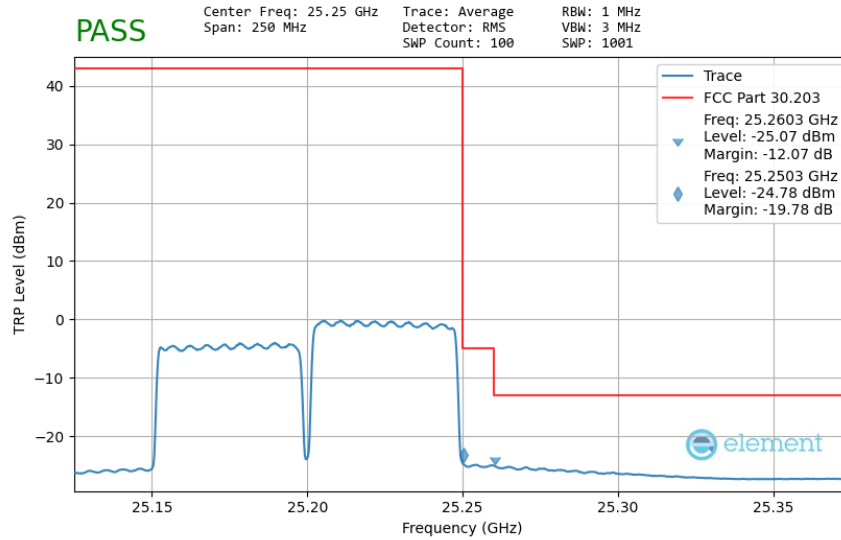


Plot 7-195. Ant 1 Upper Band Edge (50MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP

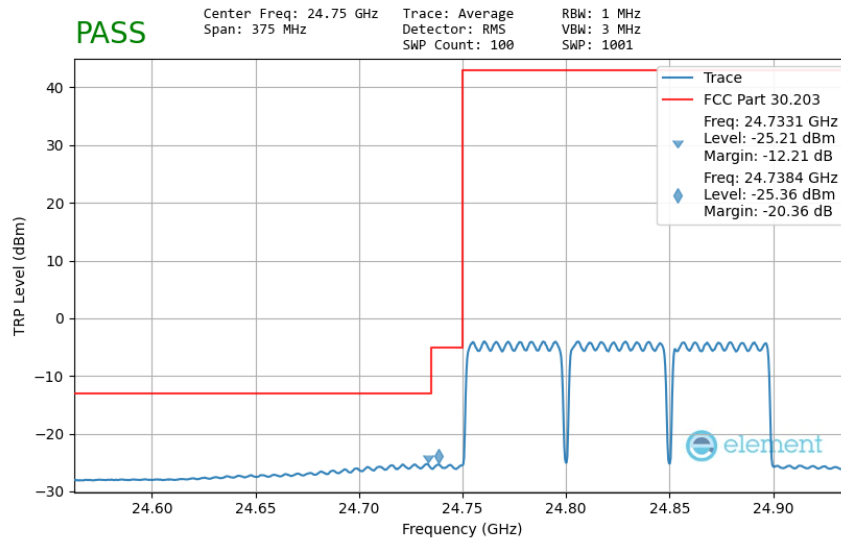


Plot 7-196. Ant 1 Lower Band Edge (50MHz-2CC – DFT-s-OFDM QPSK Full RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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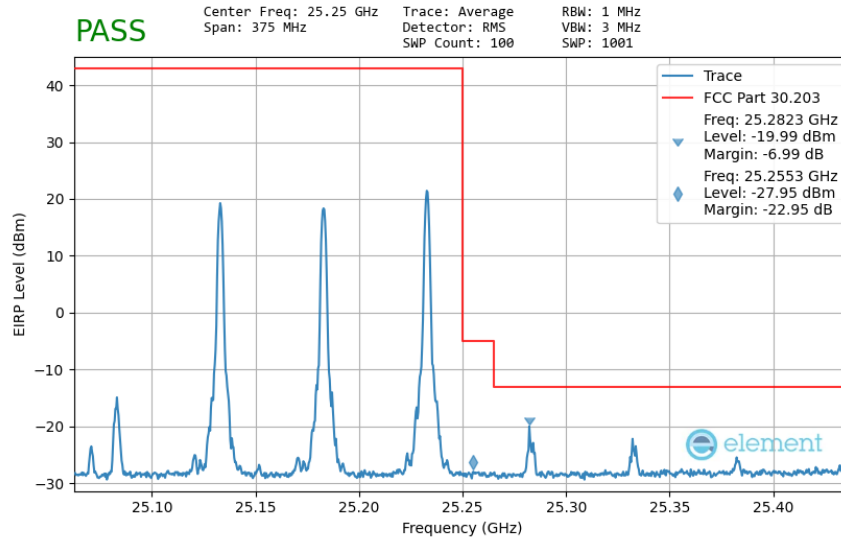


Plot 7-197.Ant 1 Upper Band Edge (50MHz-2CC – DFT-s -OFDM QPSK Full RB) - TRP

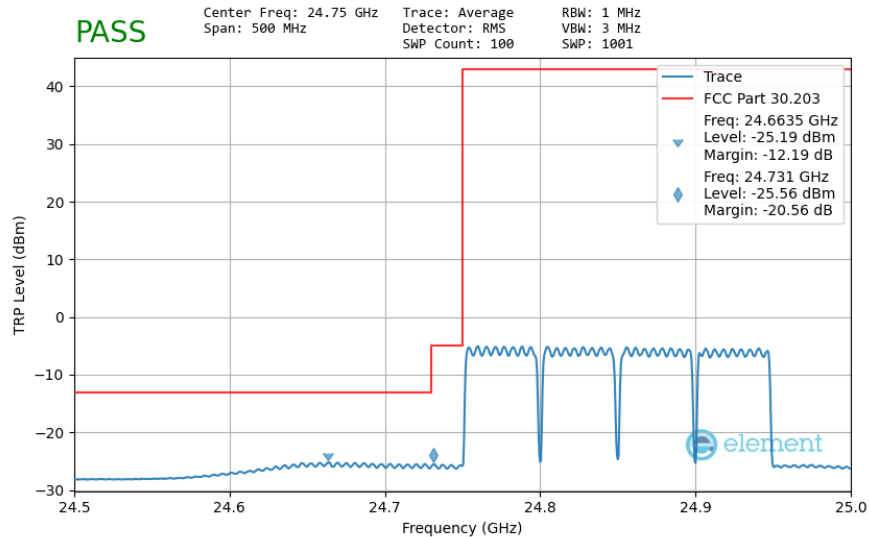


Plot 7-198.Ant 1 Lower Band Edge (50MHz-3CC- DFTs -OFDM BPSK Full RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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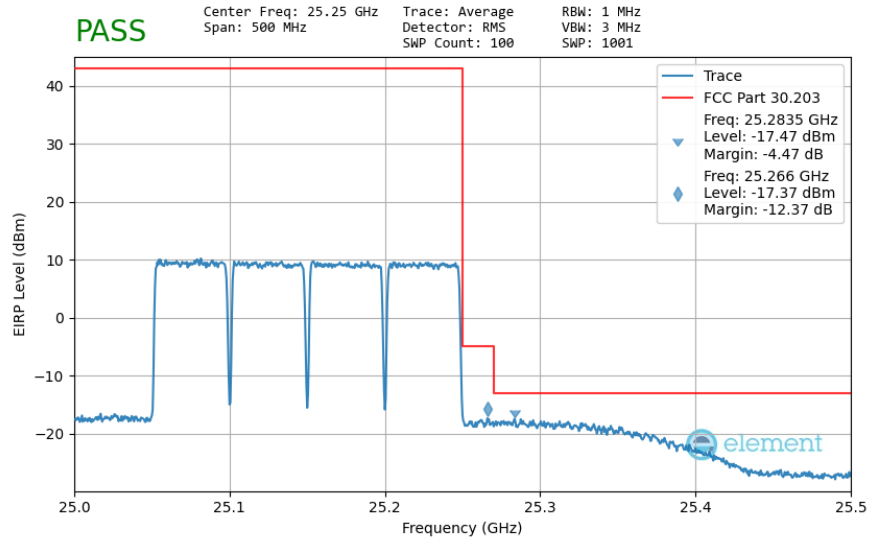


Plot 7-199.Ant 1 Upper Band Edge (50MHz-3CC – CP-QPSK 1 RB)

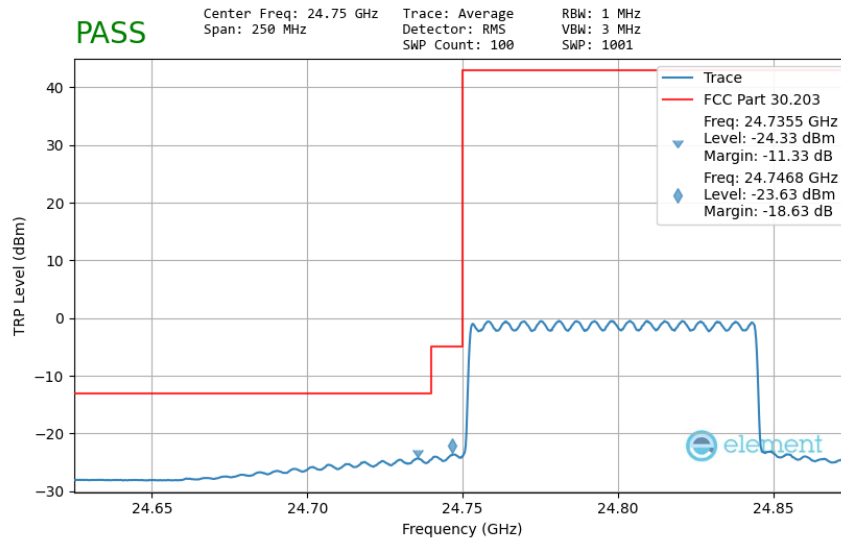


Plot 7-200.Ant 1 Lower Band Edge (50MHz-4CC- DFT-s -OFDM QPSK Full RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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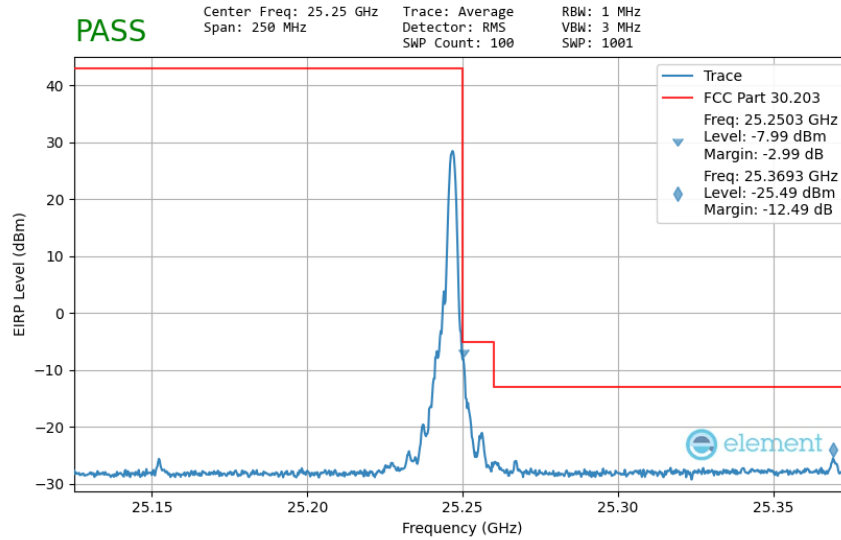


Plot 7-201.Ant 1 Upper Band Edge (50MHz-4CC - DFT-s -OFDM QPSK Full RB)

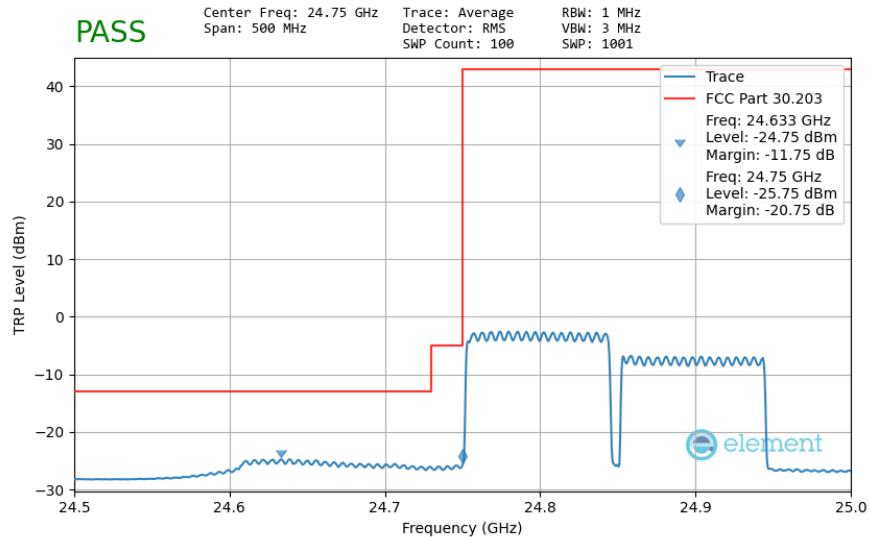


Plot 7-202.Ant 1 Lower Band Edge (100MHz-1CC – DFT-s -OFDM QPSK Full RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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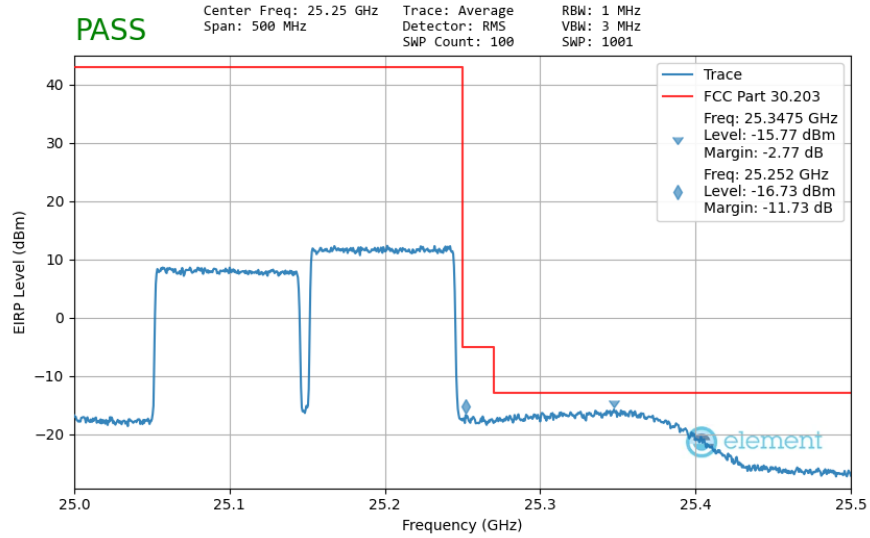


Plot 7-203.Ant 1 Upper Band Edge (100MHz-1CC – DFT-s-OFDM BPSK 1 RB)

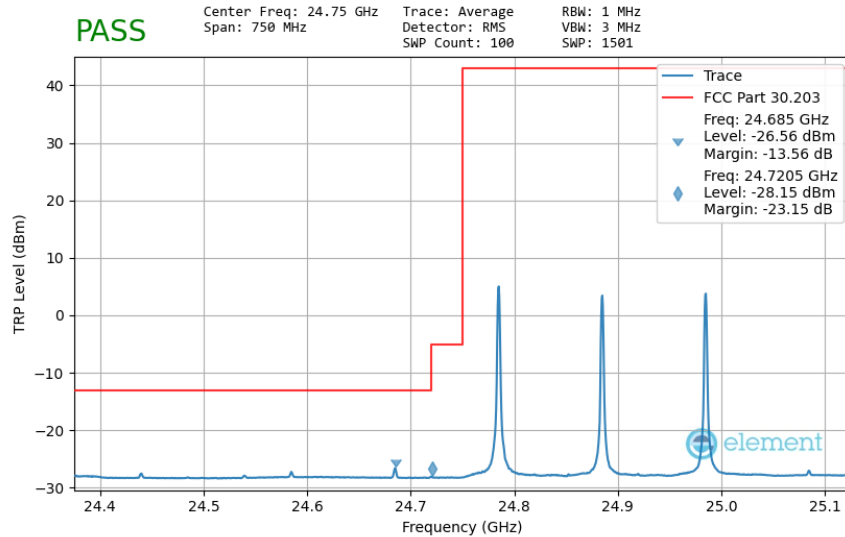


Plot 7-204.Ant 1 Lower Band Edge (100MHz-2CC - DFT-s -OFDM QPSK Full RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 153 of 196

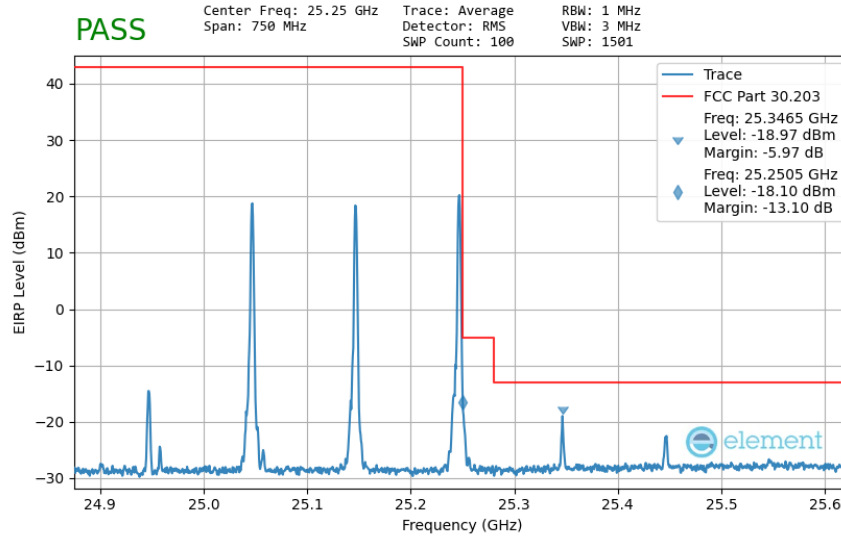


Plot 7-205.Ant 1 Upper Band Edge (100MHz-2CC – DFTs-OFDM QPSK Full RB)

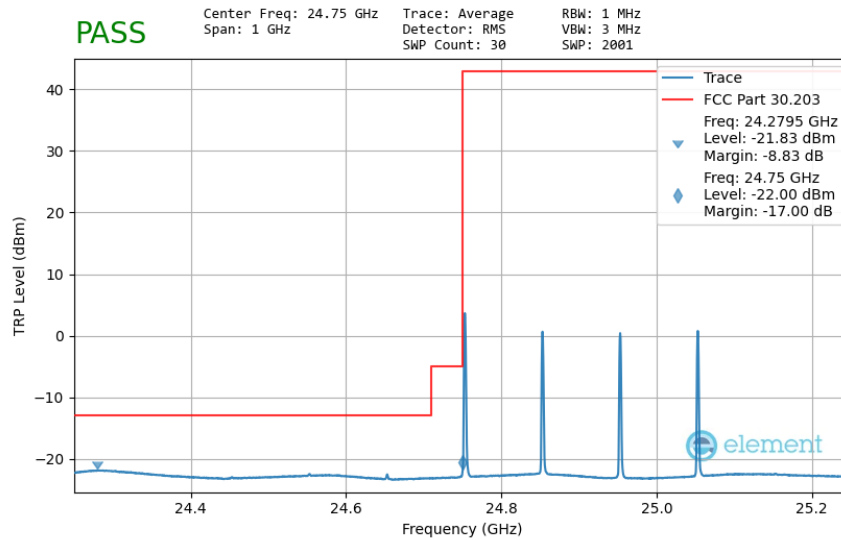


Plot 7-206.Ant 1 Lower Band Edge (100MHz-3CC – CP-OFDM QPSK 1 RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 154 of 196

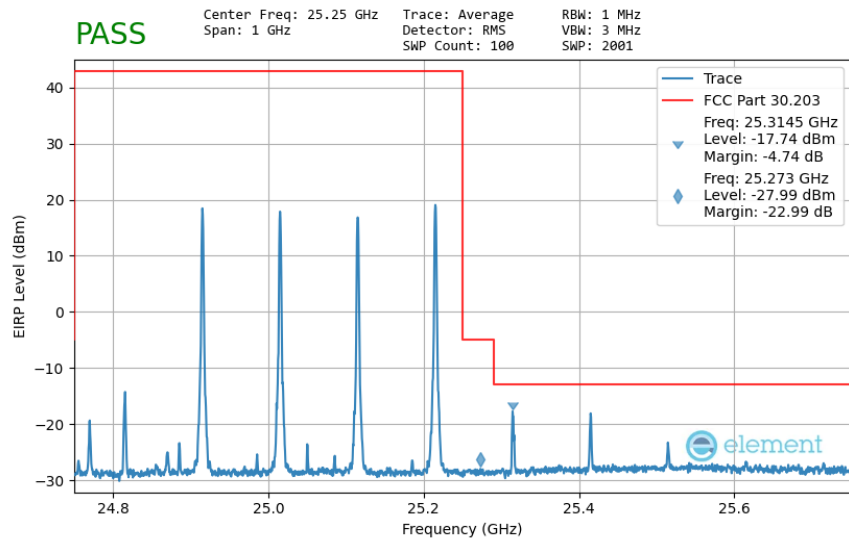


Plot 7-207.Ant 1 Upper Band Edge (100MHz-3CC – DFTs-OFDM QP DFTs-OFDM QPSK 1 RB)



Plot 7-208.Ant 1 Lower Band Edge (100MHz-4CC – CP-OFDM QPSK 1 RB) -TRP

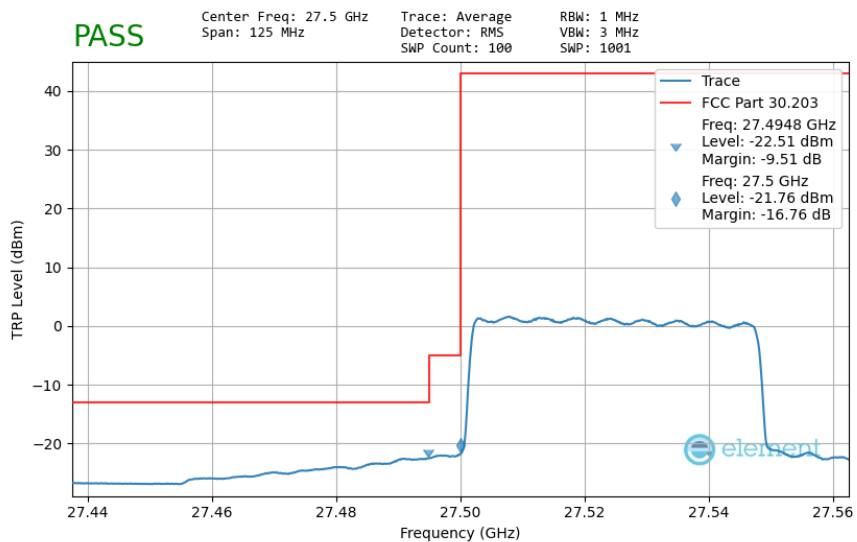
FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 155 of 196



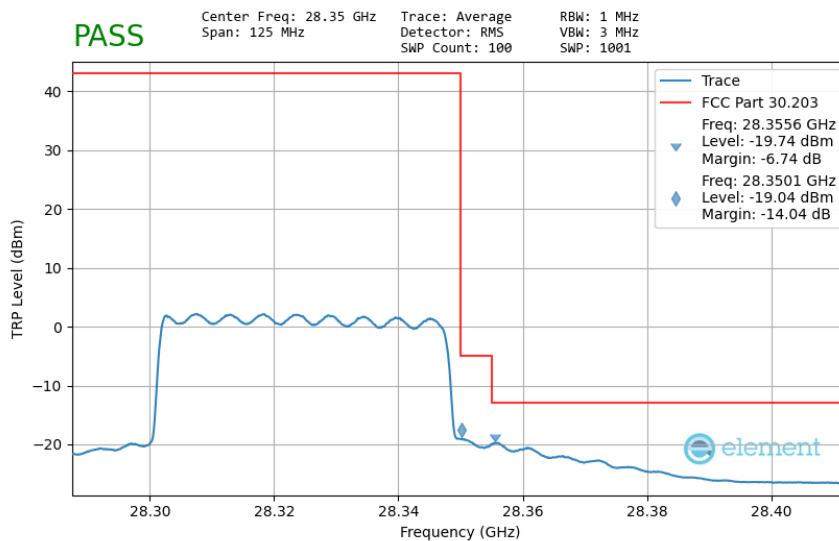
Plot 7-209.Ant 1 Upper Band Edge (100MHz-4CC – CP-OFDM QPSK 1 RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 156 of 196

Band n261 – Worst Case

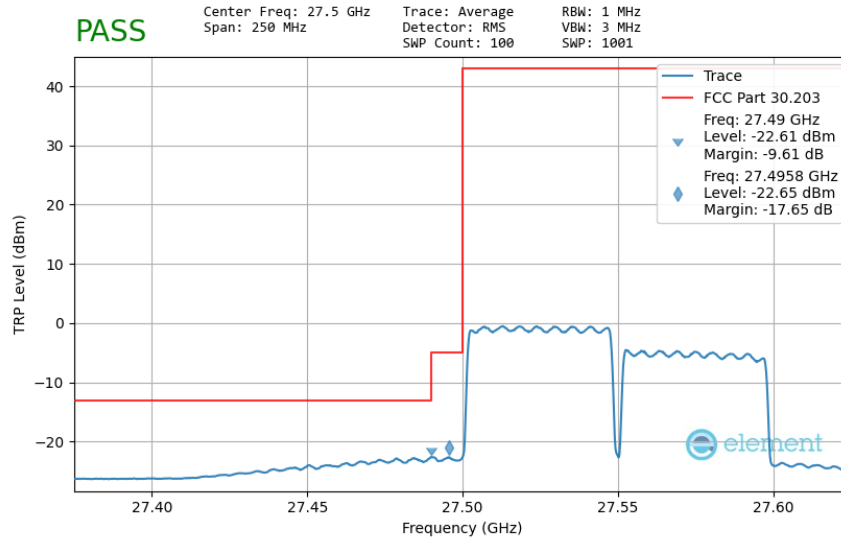


Plot 7-210. Ant 1 Lower Band Edge (50MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP

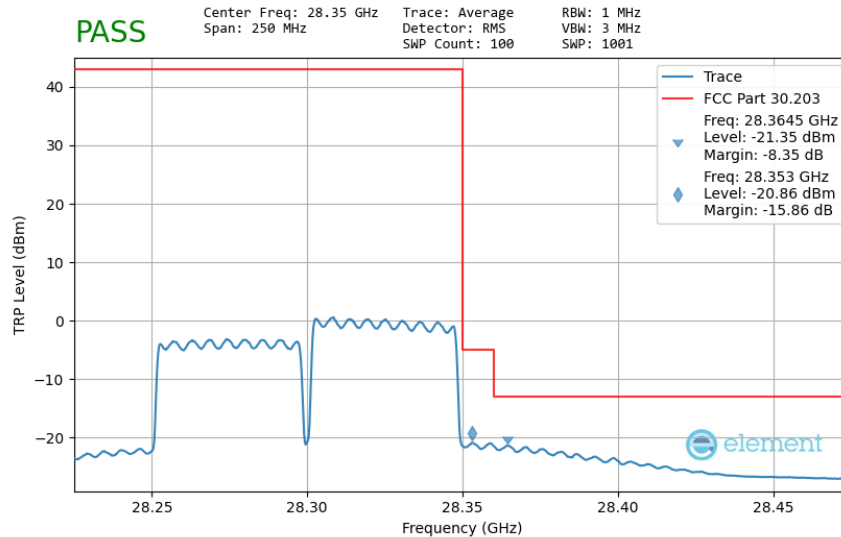


Plot 7-211. Ant 1 Upper Band Edge (50MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 157 of 196

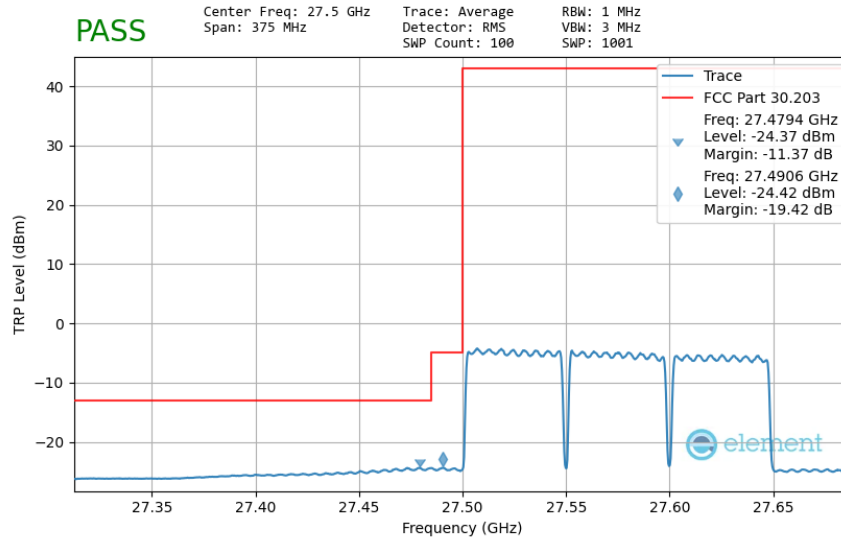


Plot 7-212. Ant 1 Lower Band Edge (50MHz-2CC – DFT-s-OFDM QPSK Full RB) - TRP

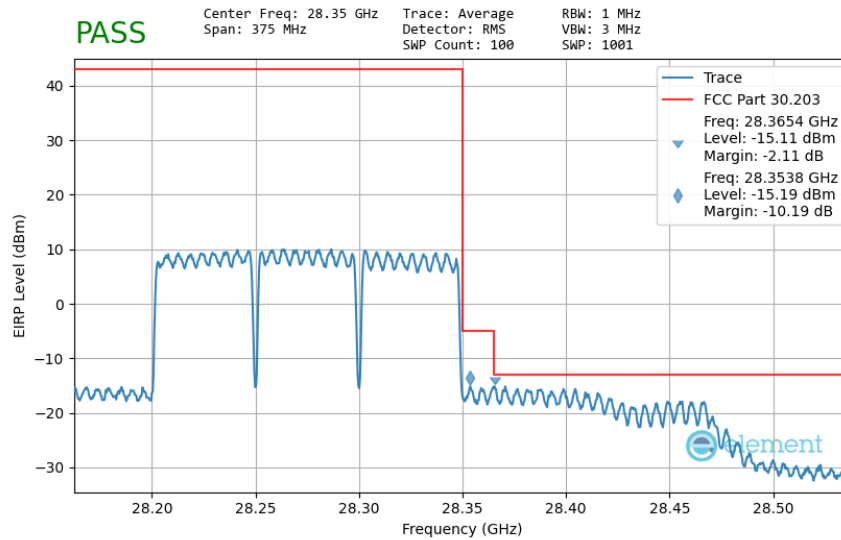


Plot 7-213. Ant 1 Upper Band Edge (50MHz-2CC – DFT-s-OFDM QPSK Full RB) - TRP

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 158 of 196



Plot 7-214.Ant 1 Lower Band Edge (50MHz-3CC- DFT-s -OFDM QPSK Full RB) - TRP



Plot 7-215.Ant 1 Upper Band Edge (50MHz-3CC – DFT-s -OFDM QPSK Full RB)

FCC ID: A3LSMS948U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250078-11.A3L	Test Dates: 09/06/2025 – 10/27/2025	EUT Type: Portable Handset	Page 159 of 196