

Channel	Dort	Maggurament Dange		Level	(dBm)		Limit	Worst
Channel	Port	Measurement Range	QPSK	16QAM	64QAM	256QAM	(dBm)	Margin (dB)
		30 MHz to 3.53 GHz	-56.77	-56.31	-56.37	-56.25	-46.02	-10.2
		3.72 GHz to 6.2 GHz	-52.46	-53.98	-53.21	-53.36	-46.02	-6.4
	0	6.2 GHz to 18 GHz	-54.98	-55.29	-55.41	-55.57	-46.02	-9.0
		18 GHz to 40 GHz	-52.63	-52.61	-52.54	-52.39	-46.02	-6.4
		30 MHz to 3.53 GHz	-56.35	-56.05	-55.00	-56.12	-46.02	-9.0
		3.72 GHz to 6.2 GHz	-53.07	-54.07	-54.15	-52.68	-46.02	-6.7
	1	6.2 GHz to 18 GHz	-54.29	-53.90	-54.63	-54.25	-46.02	-7.9
		18 GHz to 40 GHz	-52.76	-52.77	-52.87	-52.79	-46.02	-6.7
Low		30 MHz to 3.53 GHz	-56.83	-56.75	-56.79	-56.99	-46.02	-10.7
	•	3.72 GHz to 6.2 GHz	-54.63	-53.36	-53.90	-52.99	-46.02	-7.0
	2	6.2 GHz to 18 GHz	-55.13	-55.29	-55.87	-55.27	-46.02	-9.1
		18 GHz to 40 GHz	-52.53	-52.29	-52.00	-52.02	-46.02	-6.0
		30 MHz to 3.53 GHz	-56.85	-57.58	-56.70	-57.05	-46.02	-10.7
	_	3.72 GHz to 6.2 GHz	-54.84	-54.82	-53.80	-54.66	-46.02	-7.8
	3	6.2 GHz to 18 GHz	-54.15	-53.41	-54.59	-53.77	-46.02	-7.4
		18 GHz to 40 GHz	-51.58	-52.77	-52.77	-52.36	-46.02	-5.6
		30 MHz to 3.53 GHz	-56.22	-56.76	-56.32	-56.75	-46.02	-10.2
	0	3.72 GHz to 6.2 GHz	-52.59	-54.38	-53.27	-52.05	-46.02	-6.0
	0	6.2 GHz to 18 GHz	-54.90	-55.91	-55.43	-55.19	-46.02	-8.9
		18 GHz to 40 GHz	-52.52	-52.42	-52.55	-52.50	-46.02	-6.4
		30 MHz to 3.53 GHz	-56.27	-55.83	-56.66	-56.65	-46.02	-9.8
	1	3.72 GHz to 6.2 GHz	-53.69	-54.02	-53.93	-52.00	-46.02	-6.0
	1	6.2 GHz to 18 GHz	-53.35	-53.77	-54.57	-54.37	-46.02	-7.3
Middle		18 GHz to 40 GHz	-52.87	-52.94	-52.99	-53.11	-46.02	-6.9
Midule		30 MHz to 3.53 GHz	-56.57	-55.77	-56.54	-56.25	-46.02	-9.8
	2	3.72 GHz to 6.2 GHz	-53.87	-52.96	-53.10	-53.87	-46.02	-6.9
	2	6.2 GHz to 18 GHz	-55.34	-55.46	-55.51	-54.96	-46.02	-8.9
		18 GHz to 40 GHz	-52.66	-52.53	-52.30	-52.67	-46.02	-6.3
		30 MHz to 3.53 GHz	-57.27	-57.49	-56.72	-56.80	-46.02	-10.7
	3	3.72 GHz to 6.2 GHz	-54.97	-54.56	-54.88	-54.88	-46.02	-8.5
	5	6.2 GHz to 18 GHz	-54.26	-53.97	-53.87	-54.48	-46.02	-7.8
		18 GHz to 40 GHz	-53.14	-53.22	-52.54	-52.66	-46.02	-6.5
		30 MHz to 3.53 GHz	-56.13	-56.38	-55.92	-56.20	-46.02	-9.9
	0	3.72 GHz to 6.2 GHz	-53.97	-53.97	-52.82	-53.58	-46.02	-6.8
		6.2 GHz to 18 GHz	-55.79	-55.04	-55.41	-55.46	-46.02	-9.0
		18 GHz to 40 GHz	-52.87	-52.69	-52.41	-53.15	-46.02	-6.4
		30 MHz to 3.53 GHz	-56.04	-56.72	-56.15	-56.42	-46.02	-10.0
	1	3.72 GHz to 6.2 GHz	-53.75	-53.59	-54.30	-53.87	-46.02	-7.6
		6.2 GHz to 18 GHz	-54.42	-54.37	-54.29	-53.44	-46.02	-7.4
High		18 GHz to 40 GHz	-52.83	-53.00	-53.39	-53.10	-46.02	-6.8
		30 MHz to 3.53 GHz	-55.07	-56.24	-57.03	-55.20	-46.02	-9.0
	2	3.72 GHz to 6.2 GHz	-54.03	-55.51	-52.88	-53.62	-46.02	-6.9
		6.2 GHz to 18 GHz	-55.57	-54.79	-55.28	-54.56	-46.02	-8.5
		18 GHz to 40 GHz	-52.79	-52.47	-52.76	-52.93	-46.02	-6.5
		30 MHz to 3.53 GHz	-57.27	-57.51	-56.09	-57.32	-46.02	-10.1
	3	3.72 GHz to 6.2 GHz	-54.98	-55.26	-55.28	-53.86	-46.02	-7.8
		6.2 GHz to 18 GHz	-54.63	-54.16	-54.23	-54.28	-46.02	-8.1
		18 GHz to 40 GHz	-52.82	-52.80	-52.79	-52.96	-46.02	-6.8

Table 8-100. Conducted Spurious Emission Summary Data (NR_n48_1C_40M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 207 of 200
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Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
		30 MHz to 2.7 GHz	-52.50	-46.02	-5.9
		2.7 GHz to 3 GHz	-48.18	-46.02	-1.8
		3 GHz to 3.5GHz	-48.75	-46.02	-2.4
Low	0	3.5 GHz to 3.53 GHz	-50.26	-46.02	-4.1
LOW	0	3.72 GHz to 3.75 GHz	-52.45	-46.02	-5.9
		3.75 GHz to 6.2 GHz	-49.93	-46.02	-3.9
		6.2 GHz to 18GHz	-53.93	-46.02	-6.9
		18 GHz to 40 GHz	-51.11	-46.02	-5.1
		30 MHz to 2.7 GHz	-51.89	-46.02	-5.8
		2.7 GHz to 3 GHz	-47.91	-46.02	-1.7
	0	3 GHz to 3.5GHz	-48.80	-46.02	-2.6
Middle		3.5 GHz to 3.53 GHz	-50.43	-46.02	-4.3
Middle	0	3.72 GHz to 3.75 GHz	-51.86	-46.02	-5.8
		3.75 GHz to 6.2 GHz	-49.81	-46.02	-3.5
		6.2 GHz to 18GHz	-53.13	-46.02	-7.1
		18 GHz to 40 GHz	-51.19	-46.02	-4.7
		30 MHz to 2.7 GHz	-51.72	-46.02	-5.7
		2.7 GHz to 3 GHz	-47.67	-46.02	-1.6
		3 GHz to 3.5GHz	-48.90	-46.02	-2.8
L P - h	0	3.5 GHz to 3.53 GHz	-50.54	-46.02	-4.4
High	0	3.72 GHz to 3.75 GHz	-51.69	-46.02	-5.7
		3.75 GHz to 6.2 GHz	-49.90	-46.02	-3.7
		6.2 GHz to 18GHz	-54.49	-46.02	-7.8
		18 GHz to 40 GHz	-51.17	-46.02	-4.6

 Table 8-101. Conducted Spurious Emission Summary Data Data (LTE_B48_4C_20M+20M+20M)

Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
		30 MHz to 3.53 GHz	-55.77	-46.02	-9.8
L ou r	0	3.72 GHz to 6.2 GHz	-54.59	-46.02	-7.0
Low	0	6.2 GHz to 18 GHz	-55.19	-46.02	-8.7
		18 GHz to 40 GHz	-52.80	-46.02	-5.8
		30 MHz to 3.53 GHz	-56.40	-46.02	-10.0
Middle	0	3.72 GHz to 6.2 GHz	-53.80	-46.02	-7.2
Midule		6.2 GHz to 18 GHz	-55.23	-46.02	-9.0
		18 GHz to 40 GHz	-52.01	-46.02	-5.3
		30 MHz to 3.53 GHz	-56.40	-46.02	-10.4
Lliab	0	3.72 GHz to 6.2 GHz	-53.08	-46.02	-7.1
High	0	6.2 GHz to 18 GHz	-54.97	-46.02	-8.9
		18 GHz to 40 GHz	-52.32	-46.02	-6.1

Table 8-102. Conducted Spurious Emission Summary Data (NR_n48_2C_40M+40M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dega 200 of 200	
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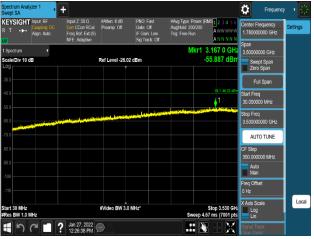


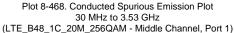
Channel	Port	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
		30 MHz to 3.53 GHz	-48.75	-46.02	-2.7
Low	0	3.72 GHz to 6.2 GHz	-53.75	-46.02	-7.7
Low	0	6.2 GHz to 18 GHz	-51.07	-46.02	-5.1
		18 GHz to 40 GHz	-51.22	-46.02	-5.2
		30 MHz to 3.53 GHz	-55.94	-46.02	-9.9
Middle	0	3.72 GHz to 6.2 GHz	-53.79	-46.02	-7.8
wilddie	0	6.2 GHz to 18 GHz	-51.91	-46.02	-5.9
		18 GHz to 40 GHz	-50.10	-46.02	-4.1
		30 MHz to 3.53 GHz	-56.39	-46.02	-10.4
Lliab	0	3.72 GHz to 6.2 GHz	-53.75	-46.02	-7.7
High	0	6.2 GHz to 18 GHz	-52.18	-46.02	-6.2
		18 GHz to 40 GHz	-50.97	-46.02	-4.9

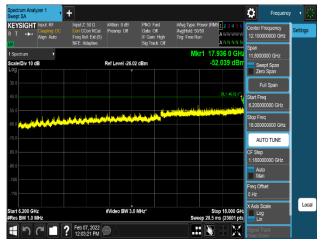
Table 8-103. Conducted Spurious Emission Summary Data (LTE_B48_2C + NR_n48_1C_20M+20M+40M)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 200 of 200	
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Plot 8-470. Conducted Spurious Emission Plot 6.2 GHz to 18 GHz (LTE_B48_1C_20M_256QAM - Middle Channel, Port 1)



Plot 8-472. Conducted Spurious Emission Plot 30 MHz to 3.53 GHz (NR_n48_1C_40M_QPSK - Low Channel, Port 3)



Plot 8-469. Conducted Spurious Emission Plot 3.72 GHz to 6.2 GHz (LTE_B48_1C_20M_256QAM - Middle Channel, Port 1)



Plot 8-471. Conducted Spurious Emission Plot 18 GHz to 40 GHz (LTE_B48_1C_20M_256QAM - Middle Channel, Port 1)



Plot 8-473. Conducted Spurious Emission Plot 3.72 GHz to 6.2 GHz

(NR_n48_1C_40M_QPSK - Low Channel, Port 3)

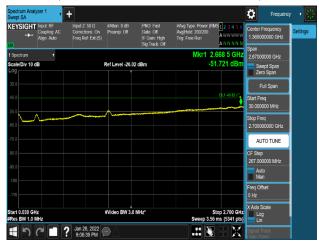
FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 210 of 200	
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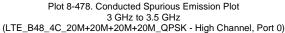
Spectrum Analyz Swept SA	zer 1	+					Frequency	(• • 🚼
	Input: RF Coupling: DC Align: Auto	Input Z: 50 0 Corr CCorr RCal Freq Ref: Ext (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Powe Avg Hold: 30/30 Trig: Free Run	A (RMS 1 2 3 4 5 6 A WW WW W A N N N N N	Center Frequency 12.10000000 GHz Span	Settings
Spectrum cale/Div 10 dE	,		Ref Level -26.02	dBm	Mkr1	16.506 0 GHz	11.8000000 GHz	
6.0							Zero Span	
						DL1 -46.02 dBn	Full Span Start Freq	
							6.200000000 GHz	
6.0 6.1 (1) (1)	لمينيني في الم	itis e Helitis h				الالفاد بيبيز بجريبالمتعبا عاديها	Stop Freq 18.00000000 GHz	
							AUTO TUNE	
							CF Step 1.180000000 GHz	
							Auto Man	
							Freq Offset 0 Hz	
tart 6.200 GHz Res BW 1.0 MI			#Video BW 3.0	MHz*	Sweep	Stop 18.000 GH; 20.5 ms (23601 pts	X Axis Scale Log Lin	Loca
<u>ן</u> א	۲ <mark>-</mark> ۲	Nov 25, 2021 12:56:36 PM				N - X	Signal Track (Span Zoom)	

Plot 8-474. Conducted Spurious Emission Plot 6.2 GHz to 18 GHz (NR_n48_1C_40M_QPSK - Low Channel, Port 3)



Plot 8-476. Conducted Spurious Emission Plot 30 MHz to 2.7 GHz (LTE_B48_4C_20M+20M+20M+20M_QPSK - High Channel, Port 0)







Plot 8-475. Conducted Spurious Emission Plot 18 GHz to 40 GHz (NR_n48_1C_40M_QPSK - Low Channel, Port 3)



Plot 8-477. Conducted Spurious Emission Plot 2.7 GHz to 3 GHz (NR_n48_2C_40M+40M_256QAM - High Channel, Port 0)



Plot 8-479. Conducted Spurious Emission Plot 3.5 GHz to 3.53 GHz

(LTE_B48_4C_20M+20M+20M+20M_QPSK - High Channel, Port 0)

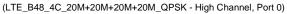
FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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EYSIGHT Input: RF Coupling: AC Align: Auto		atten:0.dB PNO:Fas eamp:Off Gate:Off IFGain:H Sig Track:	Avg Hold: 50/50 ligh Trig: Free Run	1 2 3 4 5 6 Center Frequency 3.735000000 GHz A N N N N N Span	Settings
Spectrum v cale/Div 10 dB	Ref	Level -26.02 dBm	Mkr1 3.72 -51.	0 69 GHz 30.0000000 MHz 686 dBm Zero Span	
6.0	en han Ambanan an darange		المرد المحرور والمرد	CL1-46 42 dBm Start Freq 3.720000000 GHz	
6.0				Stop Freq 3.75000000 GHz	
				CF Step 3.000000 MHz Auto	
				Man Freq Offset 0 Hz X Axis Scale	
art 3.72000 GHz tes BW 1.0 MHz	#Vi	deo BW 3.0 MHz*	Stop Sweep 1.00 m	3.75000 GHz Lag	

Plot 8-480. Conducted Spurious Emission Plot 3.72 GHz to 3.75 GHz

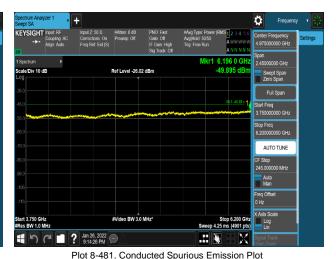




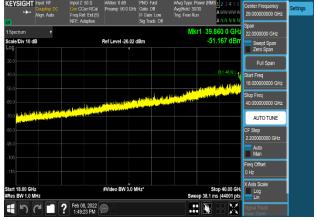
Plot 8-482. Conducted Spurious Emission Plot 6.2 GHz to 18 GHz (LTE_B48_4C_20M+20M+20M+20M_QPSK - High Channel, Port 0)



Plot 8-484. Conducted Spurious Emission Plot 30 MHz to 3.53 GHz (NR_n48_2C_40M+40M_QPSK - Mid Channel, Port 0)



3.75 GHz to 6.2 GHz (LTE_B48_4C_20M+20M+20M+20M_QPSK - High Channel, Port 0) Ö Freq KEYSIGHT Input RF



Plot 8-483. Conducted Spurious Emission Plot 18 GHz to 40 GHz (LTE_B48_4C_20M+20M+20M+20M_QPSK - High Channel, Port 0)



Plot 8-485. Conducted Spurious Emission Plot 3.72 GHz to 6.2 GHz (NR_n48_2C_40M+40M_QPSK - Mid Channel, Port 0)

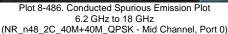
MEASUREMENT REPORT Approved by: PCTEST (A) SAMSUNG FCC: A3LRT4401-48A1 (CERTIFICATION) **Technical Manager** Test Report S/N: EUT Type: Test Dates: Page 212 of 286 8K21101306-R4.A3L 10/20/2021 - 04/05/2022 RRU(RT4401) © 2022 PCTEST

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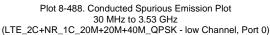
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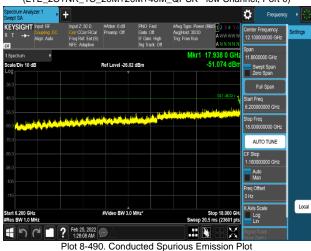


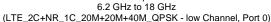








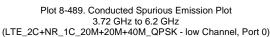


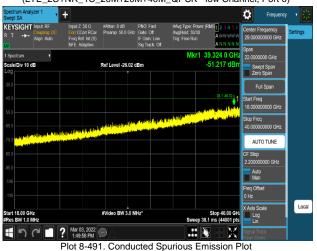




Plot 8-487. Conducted Spurious Emission Plot 18 GHz to 40 GHz (NR_n48_2C_40M+40M_QPSK - Mid Channel, Port 0)







18 GHz to 40 GHZ

(LTE_2C+NR_1C_20M+20M+40M_QPSK - low Channel, Port 0)

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8.9 Radiated spurious emission

Test Overview

Radiated spurious emissions measurements are performed using the field strength method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized broadband tri-log antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally and horizontally polarized broadband tri-log antennas.

Test Procedure Used

ANSI C63.26 - Section 5.5.4 KDB 971168 D01 v03r01 - Section 7

Test Setting

- 1. Start frequency was set to 30 MHz and stop frequency was set to at least 10 * the fundamental frequency
- 2. RBW = 1 MHz
- 3. VBW \geq 3 x RBW
- 4. No. of sweep points > 2 x span / RBW
- 5. Detector = RMS
- 6. Trace mode = Max Hold (In cases where the level is within 2 dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
- 7. The trace was allowed to stabilize.

<u>Limit</u>

- Within 0 MHz to 10 MHz above and below the assigned channel ≤ -13 dBm/MHz
- Greater than 10 MHz above and below the assigned channel ≤ −25 dBm/MHz
- Any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

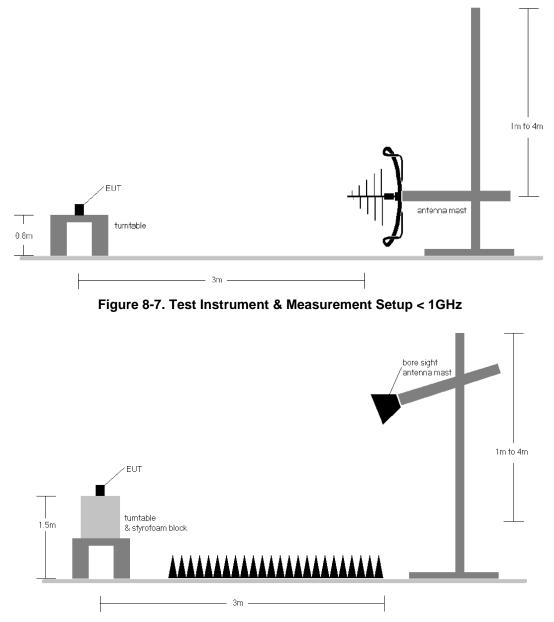


Figure 8-8. Test Instrument & Measurement Setup > 1GHz

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Test Notes

1. The average EIRP reported below is calculated per 5.2.7 of ANSI C63.26-2015 which states:

The measured e.i.r.p is converted to E-field in V/m. Then the distance correction is applied before converted back to calculated e.i.r.p.as explained in KDB 971168 D01 D01 v03r01.

Effective Isotropic Radiated Power Sample Calculation

Field Strength [dBµV/m]	= Measured Value [dBm] + AFCL [dB/m] + 107		
	= -58.02 dBm + (5.54 dBm) + 107 = 54.52 dBµV/m		
e.i.r.p. [dBm]	= E[dB μV/m] + 20 log10(d[m]) - 104.8		
	= 54.52 + (20*log (3)) - 104.8		
	= -40.74 dBm e.i.r.p.		

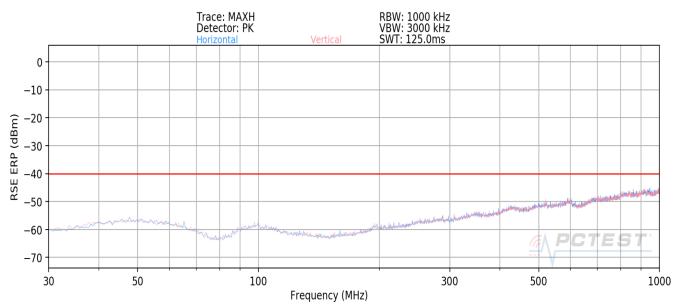
*AFCL (dB/m) contains measurement antenna factor(dB/m) and cable loss(dB) as below:

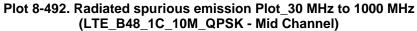
Frequency [MHz]	Antenna Factor (dB/m)	Chamber measurement cable loss + amplifier [dB]	AFCL (dB/m)
988.46	23.31	2.69	26.00
13762.52	41.13	-26.07	15.06

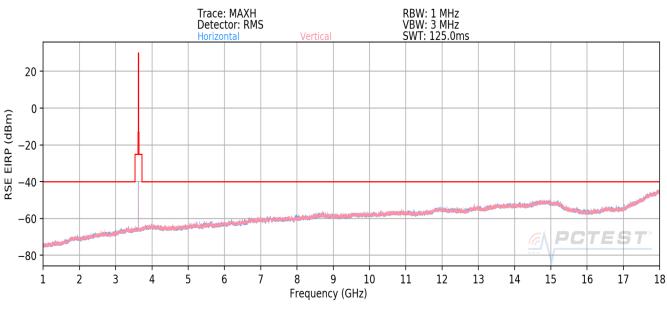
- 2. The EUT was tested in both horizontal and vertical antenna polarizations and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, channel bandwidth configurations shown in the tables below.
- 3. The spectrum is measured from 30 MHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4. All emissions were measured at a 3-meter test distance.
- 5. Spurious emissions were measured with all EUT antennas transmitting simultaneously and all antenna ports terminated.
- 6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

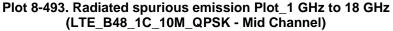
FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 216 of 286
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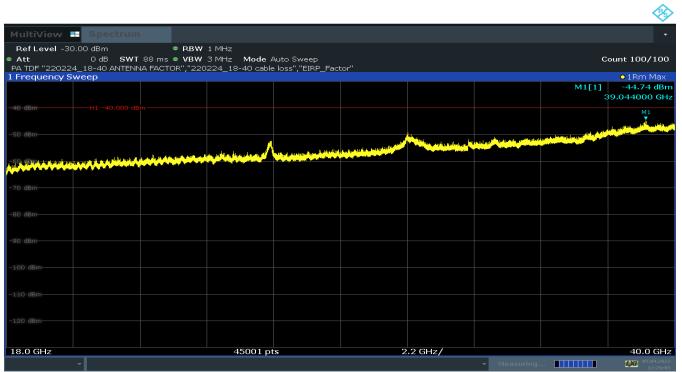




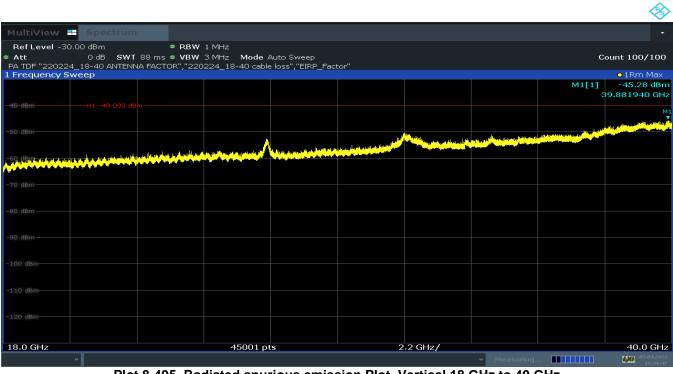


FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 217 of 200
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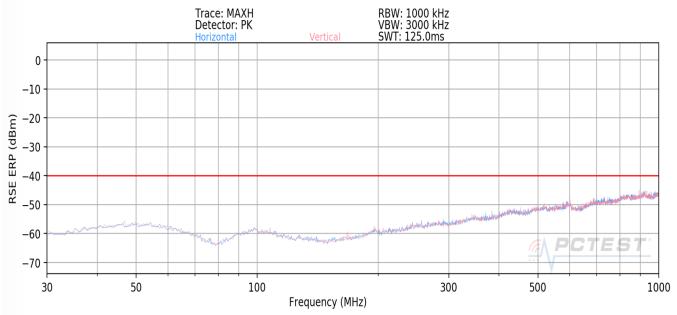
Plot 8-494. Radiated spurious emission Plot_Horizontal 18 GHz to 40 GHz (LTE_B48_1C_10M_QPSK - Mid Channel)

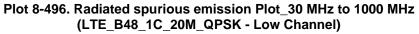


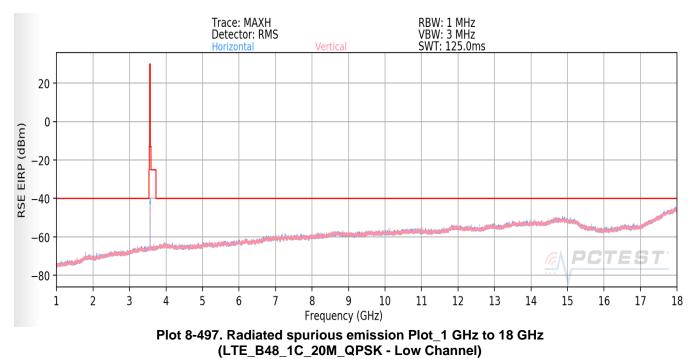
Plot 8-495. Radiated spurious emission Plot_Vertical 18 GHz to 40 GHz (LTE_B48_1C_10M_QPSK - Mid Channel)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dege 219 of 200
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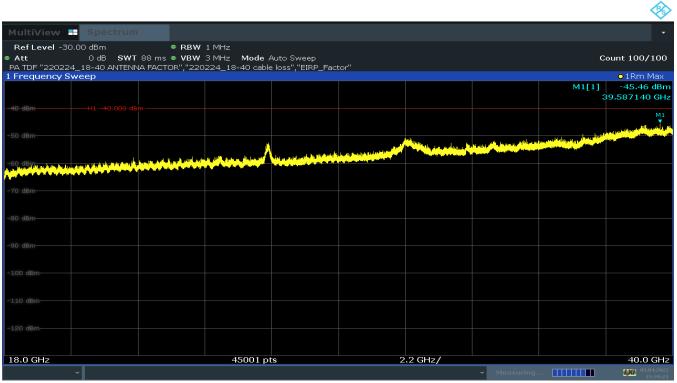




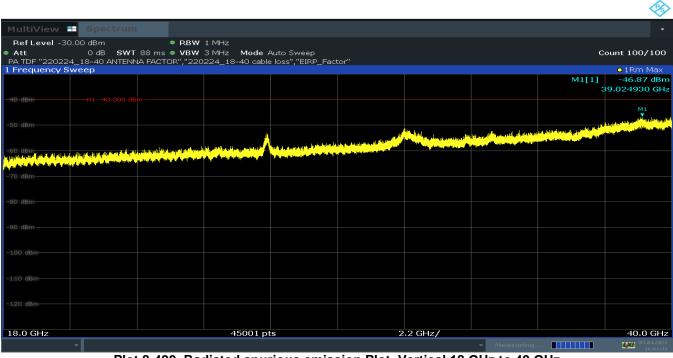


FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 210 of 286
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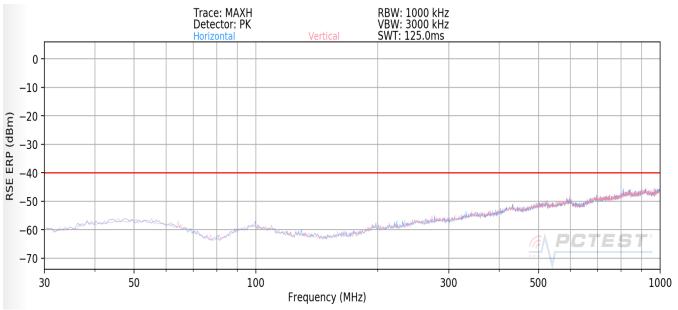
Plot 8-498. Radiated spurious emission Plot_Horizontal 18 GHz to 40 GHz (LTE_B48_1C_20M_QPSK - Low Channel)

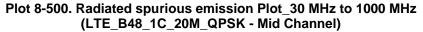


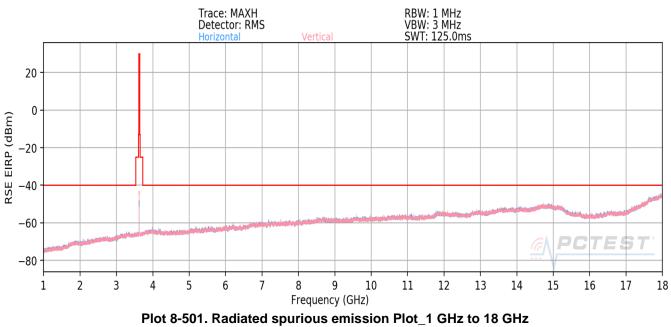
Plot 8-499. Radiated spurious emission Plot_Vertical 18 GHz to 40 GHz (LTE_B48_1C_20M_QPSK - Low Channel)

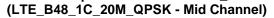
FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 220 of 286
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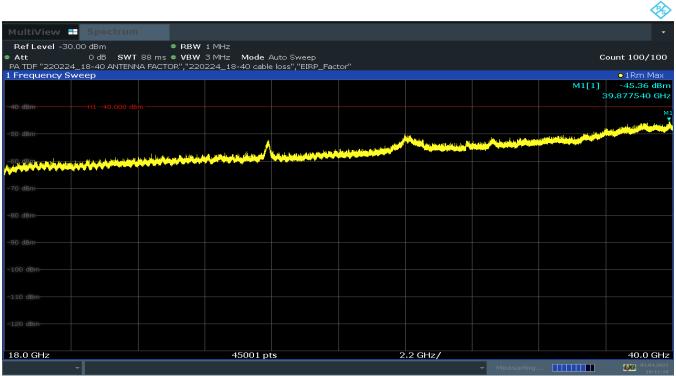




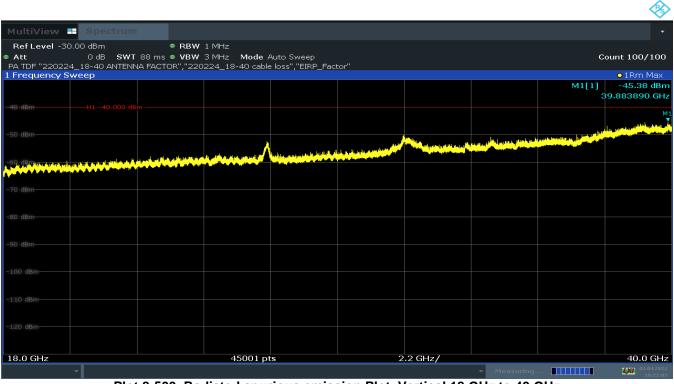


FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 221 of 296
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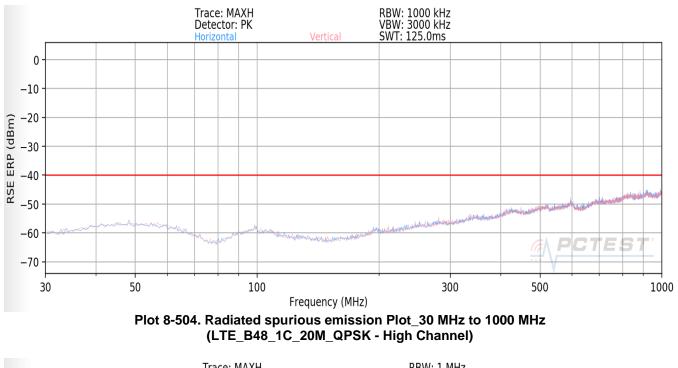
Plot 8-502. Radiated spurious emission Plot_Horizontal 18 GHz to 40 GHz (LTE_B48_1C_20M_QPSK - Mid Channel)

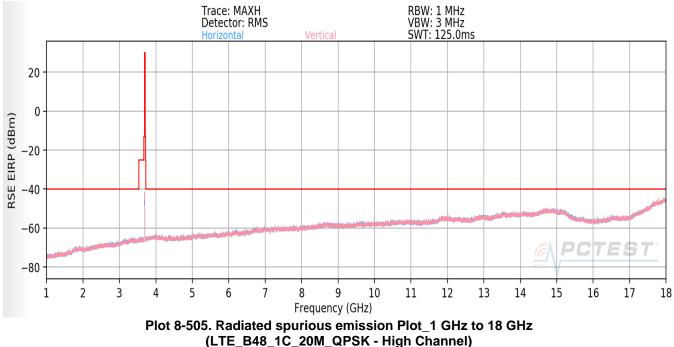


Plot 8-503. Radiated spurious emission Plot_Vertical 18 GHz to 40 GHz (LTE_B48_1C_20M_QPSK - Mid Channel)

FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 200 of 200
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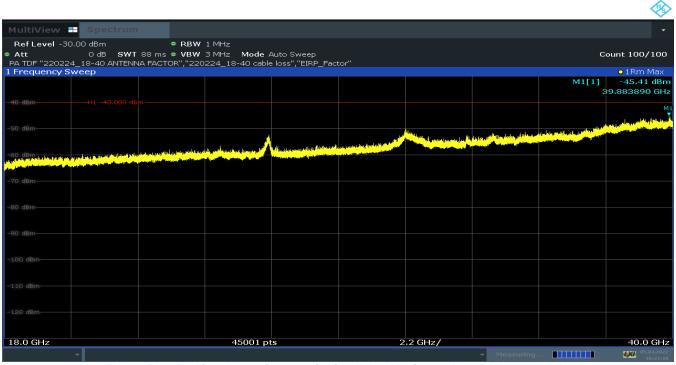




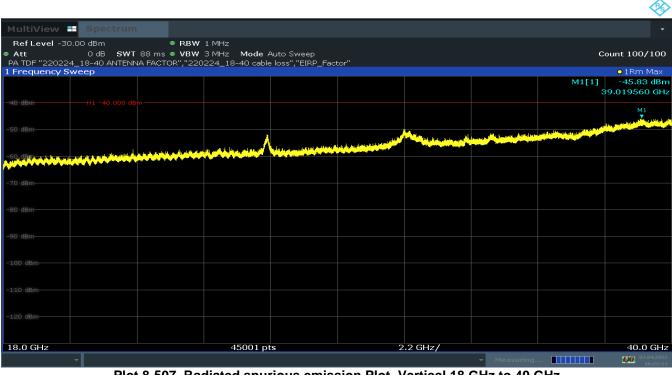


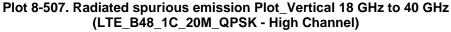
FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 222 of 286
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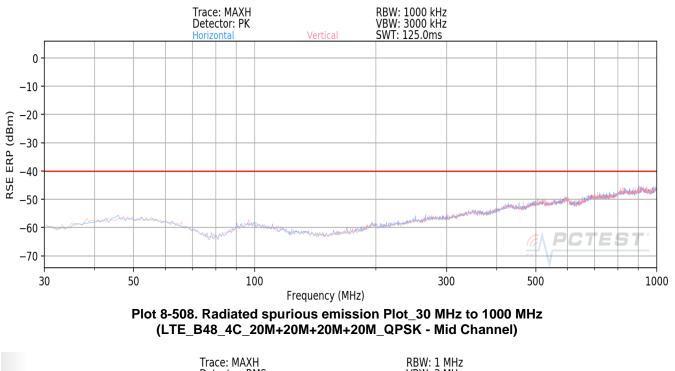
Plot 8-506. Radiated spurious emission Plot_Horizontal 18 GHz to 40 GHz (LTE_B48_1C_20M_QPSK - High Channel)

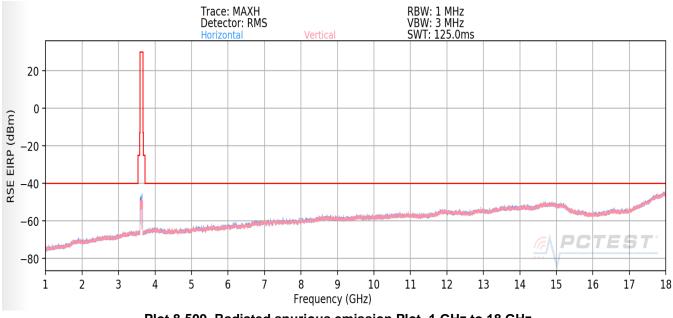


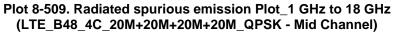


FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 024 of 200
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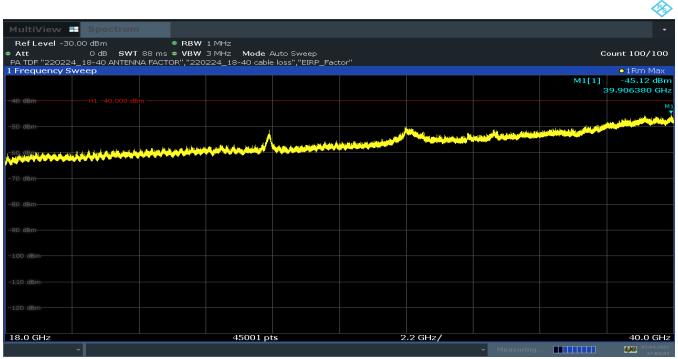




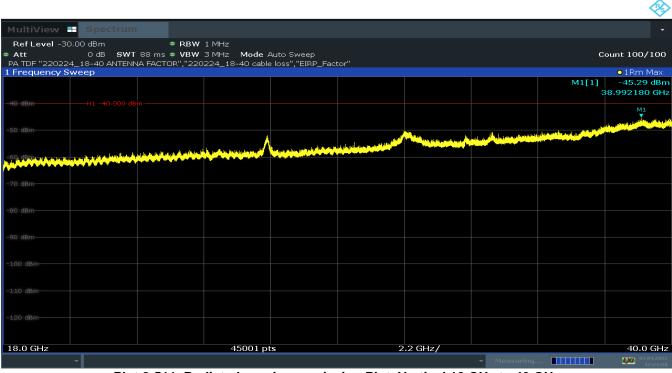


FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 225 of 296
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Plot 8-510. Radiated spurious emission Plot_Horizontal 18 GHz to 40 GHz (LTE_B48_4C_20M+20M+20M+20M_QPSK - Mid Channel)



Plot 8-511. Radiated spurious emission Plot_Vertical 18 GHz to 40 GHz (LTE_B48_4C_20M+20M+20M+20M_QPSK - Mid Channel)

FCC: A3LRT4401-48A1	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 226 of 286
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30 MHz – 40 GHz

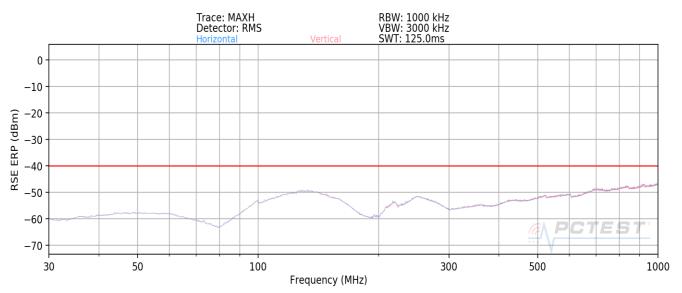
Bandwidth (MHz):	Single Band_LTE_B48_1C_20M_Middle Channel
Frequency (MHz):	3625 MHz
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Heigh [cm]	Turntable azimuth [degree]	Analyzer Level [dBm/MHz]	AFCL [dBm]	Field Strength [^{dB} ⊮/m]	RSE EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
993.25	Н	150	40	-85.47	26.04	46.90	-47.56	-40.00	-7.56
994.42	V	120	80	-85.62	26.05	47.23	-47.23	-40.00	-7.23
17898.85	Н	120	55	-83.39	23.31	47.24	-47.21	-40.00	-7.21
17897.96	V	140	160	-83.24	23.30	47.39	-47.06	-40.00	-7.06

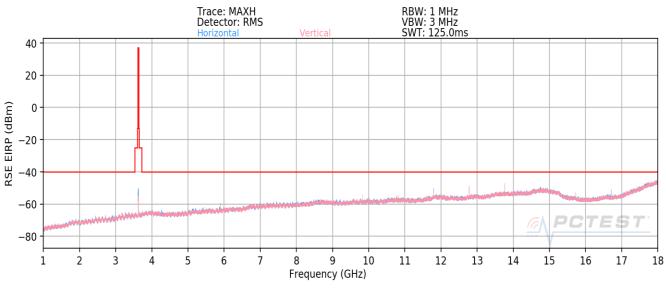
Table 8-105. Radiated spurious emission Summary Data (Single Band_LTE_B48_1C_20M_Middle Channel)

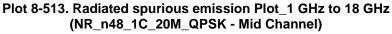
FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 227 of 286
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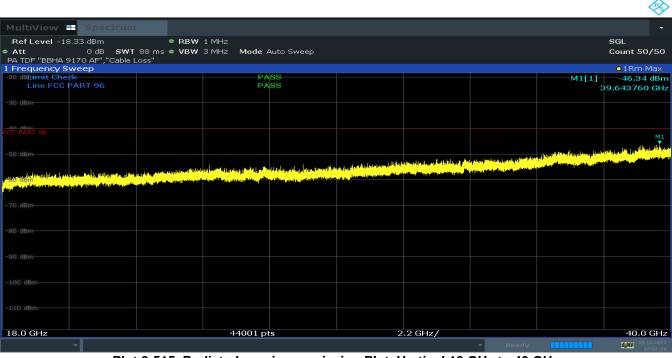


FCC: A3LRT4401-48A1	ENGINEERING LARORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 220 of 200
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MultiView 🖶 Spectrum			
Ref Level -18.33 dBm •	RBW 1 MHz		SGL
	VBW 3 MHz Mode Auto Sweep		Count 50/5
PA TDF "BBHA 9170 AF","Cable Loss"			
Frequency Sweep			• 1Rm Ma:
20 dBlrimit Check	PASS		M1[1] -46.85 dB
Line FCC PART 96	PASS		39.827250 G
30 dBm			
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30 dBm			
	44001 pts	2.2 GHz/	40.0 G

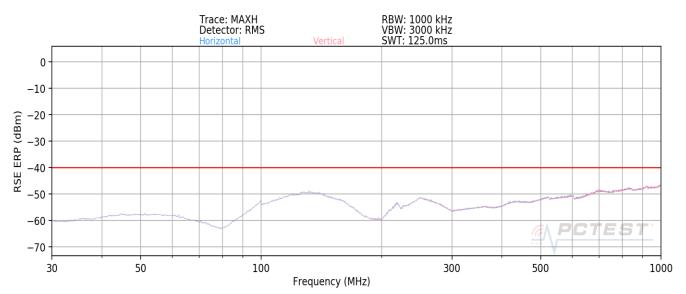
Plot 8-514. Radiated spurious emission Plot_Horizontal 18 GHz to 40 GHz (NR_n48_1C_20M_QPSK - Mid Channel)

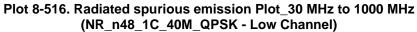


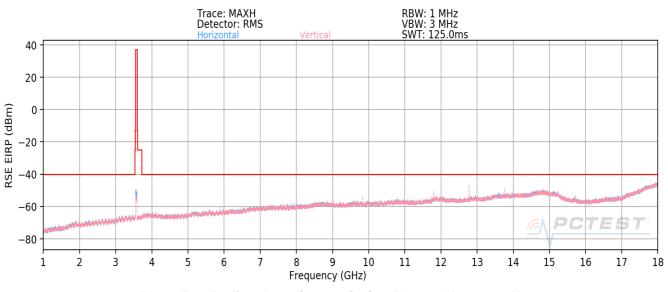
Plot 8-515. Radiated spurious emission Plot_Vertical 18 GHz to 40 GHz (NR_n48_1C_20M_QPSK - Mid Channel)

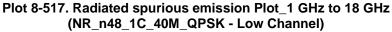
FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 220 of 286
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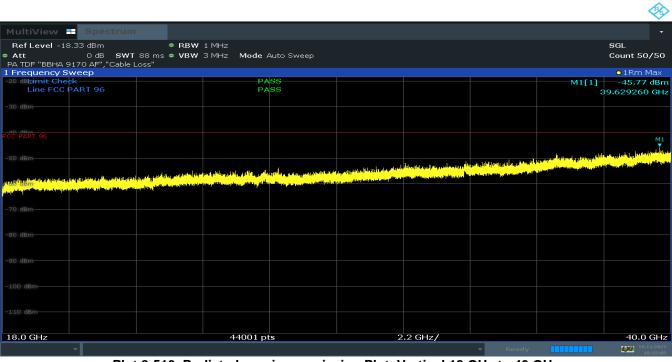


FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 220 of 286
8K21101306-R4.A3L	10/20/2021 - 04/05/2022	RRU(RT4401)		Page 230 of 286
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MultiView 🖶 Spectrum				
	BW 1 MHz			SGL
	BW 3 MHz Mode Auto Sweep			Count 50/50
PA TDF "BBHA 9170 AF","Cable Loss"	Bit Shinz Mode Add Sweep			500mc 507 54
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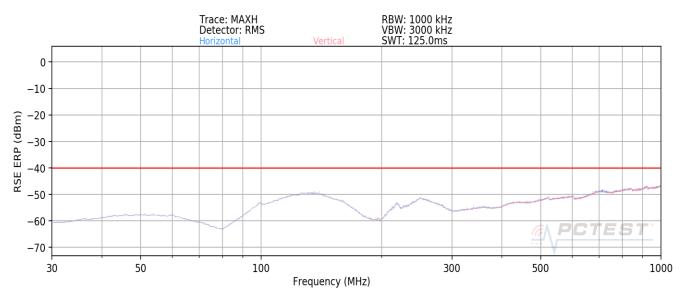
Plot 8-518. Radiated spurious emission Plot_Horizontal 18 GHz to 40 GHz (NR_n48_1C_40M_QPSK - Low Channel)

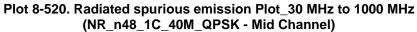


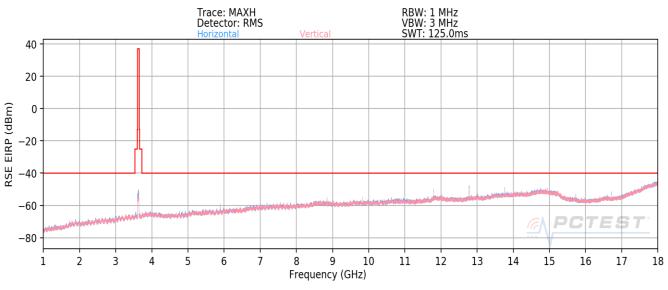
Plot 8-519. Radiated spurious emission Plot_Vertical 18 GHz to 40 GHz (NR_n48_1C_40M_QPSK - Low Channel)

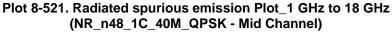
FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 221 of 286
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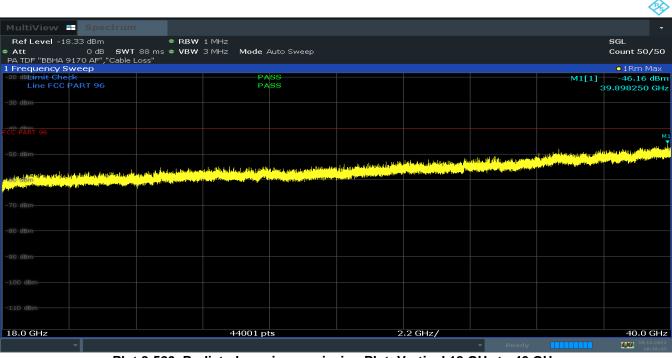


FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 222 of 286
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1ultiView 🖬 Spectrum				
Ref Level -18.33 dBm	RBW 1 MHz			SGL
	VBW 3 MHz Mode Auto Sweep			Count 50/
A TDF "BBHA 9170 AF","Cable Loss"				• 1Rm Ma
Frequency Sweep 20 dBhimit-Check	PASS			M1[1] -46.33 d
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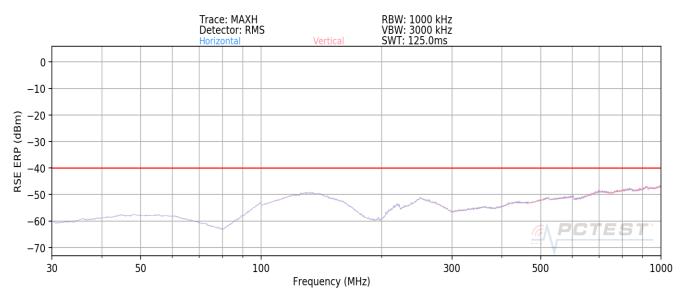
Plot 8-522. Radiated spurious emission Plot_Horizontal 18 GHz to 40 GHz (NR_n48_1C_40M_QPSK - Mid Channel)

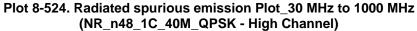


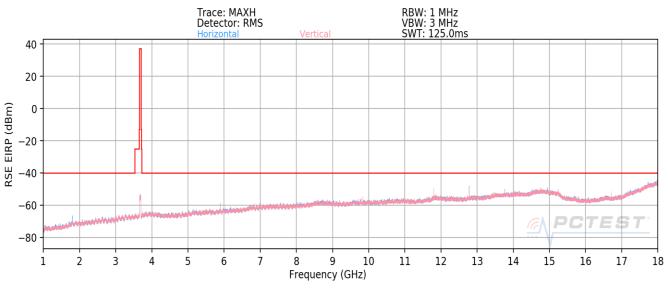
Plot 8-523. Radiated spurious emission Plot_Vertical 18 GHz to 40 GHz (NR_n48_1C_40M_QPSK - Mid Channel)

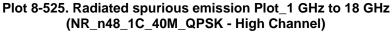
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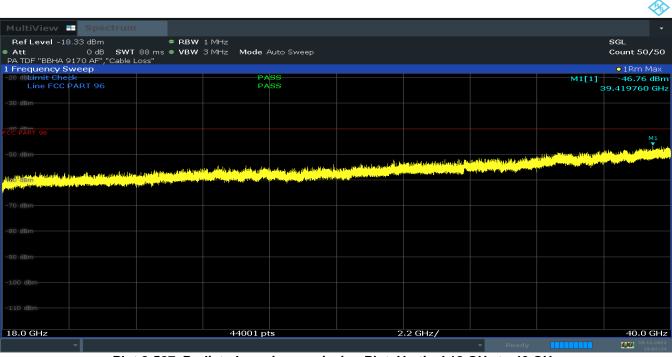


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				(A)
MultiView 🕶 Spectrum				•
Ref Level -18.33 dBm • RE	BW 1 MHz			SGL
	3W 3 MHz Mode Auto Sweep			Count 50/50
PA TDF "BBHA 9170 AF","Cable Loss"				
. Frequency Sweep				o1Rm Max
20 dBtrimit Check	PASS PASS			M1[1] -46.08 dBm
Line FCC PART 96	PASS			39.469260 GH
30 dBm				
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100 dBm				
110 dBm-				
	44001			
18.0 GHz	44001 pts	2.2 GHz/	Ready	40.0 GHz

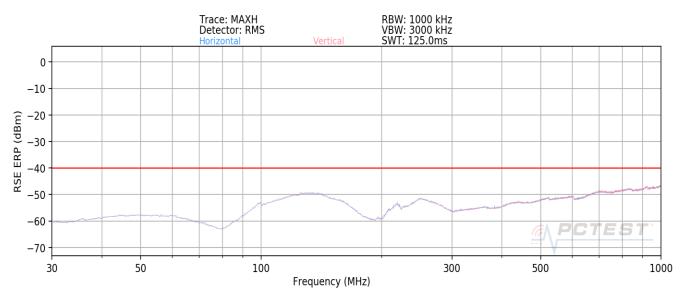
Plot 8-526. Radiated spurious emission Plot_Horizontal 18 GHz to 40 GHz (NR_n48_1C_40M_QPSK - High Channel)



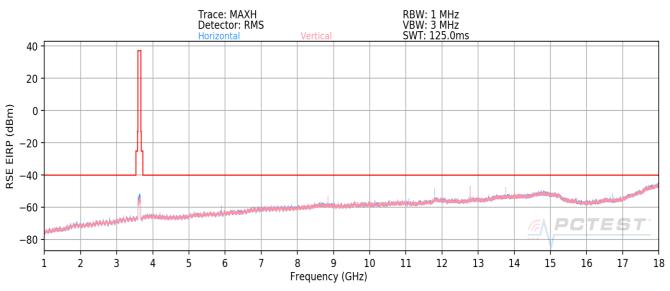
Plot 8-527. Radiated spurious emission Plot_Vertical 18 GHz to 40 GHz (NR_n48_1C_40M_QPSK - High Channel)

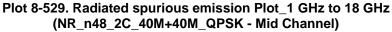
FCC: A3LRT4401-48A1		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 8-528. Radiated spurious emission Plot_30 MHz to 1000 MHz (NR_n48_2C_40M+40M_QPSK - Mid Channel)





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1ultiView 🖬 Spectrum					
Ref Level -18.33 dBm •	RBW 1 MHz				SGL
	VBW 3 MHz Mode Auto Swee	∋p			Count 50/5
A TDF "BBHA 9170 AF","Cable Loss"					
Frequency Sweep 20 dBhimit Check	PASS				• 1Rm Ma
Line FCC PART 96	PASS			M1[1]	-46.33 dE 39.525760 G
					39.525760 6
C PART 96					м
					a ship di
		ويراغص وملوط ومرافق الارار والمساورة فالمراجع	A Design of the second se		and the second secon
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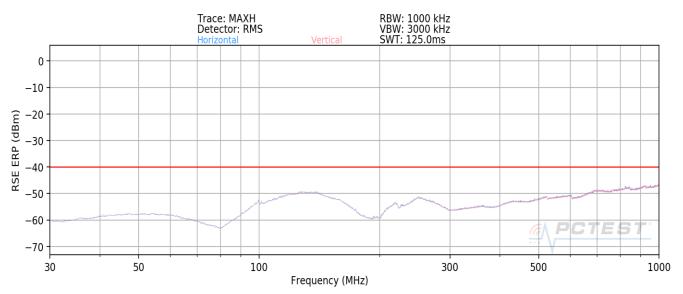
Plot 8-530. Radiated spurious emission Plot_Horizontal 18 GHz to 40 GHz (NR_n48_2C_40M+40M_QPSK - Mid Channel)

MultiView 🖶 Spectrum							
Ref Level -18.33 dBm	● RBW 1 M	1Hz					SGL
		1Hz Mode Auto Swee	эр				Count 50/5
PA TDF "BBHA 9170 AF","Cable L Frequency Sweep	LOSS"						• 1Rm Ma>
20 dBlaimit Check		PASS				M1[1]	-46.16 dB
Line FCC PART 96		PASS				3	9.898250 GI
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وتكمري والمامتين وبأنتاج والمتكاليتين الأرجعان الشحل الساعات فالسؤل وملتقان		and the state of the second second					
70 dBm							
30 dBm		44001 pts		2.2 GHz/			40.0 GF

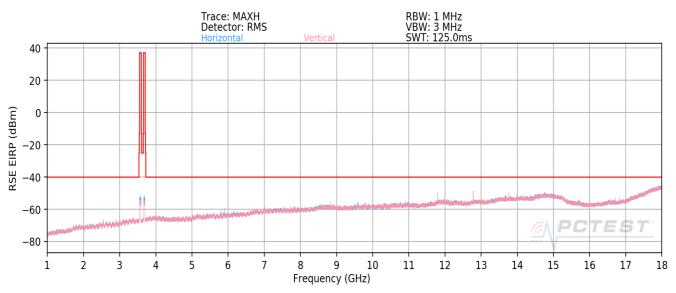
Plot 8-531. Radiated spurious emission Plot_Vertical 18 GHz to 40 GHz (NR_n48_2C_40M+40M_QPSK - Mid Channel)

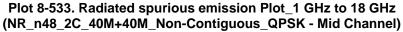
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Plot 8-532. Radiated spurious emission Plot_30 MHz to 1000 MHz (NR_n48_2C_40M+40M_Non-Contiguous_QPSK - Mid Channel)



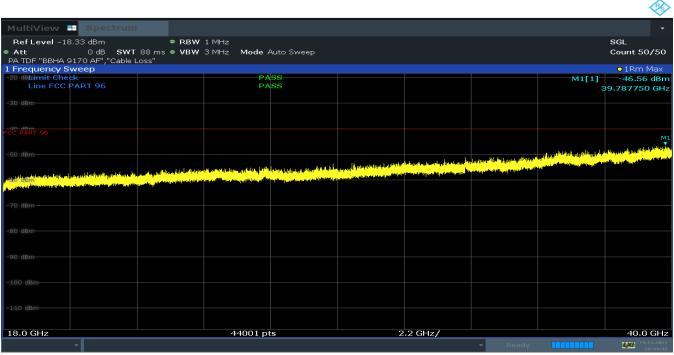


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MultiView 🎫 Spectrum								
Ref Level -18.33 dBm	• RBW 1 MH	Ιz						SGL
	8 ms 🗢 VBW 3 MH	lz Mode A	uto Sweep					Count 50/5
PA TDF "BBHA 9170 AF","Cable Lo	ss"							
Frequency Sweep 20 dBtrimit Check		PA	88				M1[1]	• 1Rm Ma
Line FCC PART 96		PA						40.83 di 39.823750 G
								510207000
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0 d8m								
0 dBm								
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Plot 8-535. Radiated spurious emission Plot_Vertical 18 GHz to 40 GHz (NR_n48_2C_40M+40M_Non-Contiguous_QPSK - Mid Channel)

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- 30 MHz – 40 GHz

Bandwidth (MHz):	Single Band_NR_n48_1C_40M_Middle Channel
Frequency (MHz):	3625 MHz
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Heigh [cm]	Turntable azimuth [degree]	Analyzer Level [dBm/MHz]	AFCL [dBm]	Field Strength [dB,⊮/m]	RSE EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
988.46	н	150	20	-85.47	26.00	47.53	-46.93	-40.00	-6.93
991.58	V	100	140	-85.62	26.02	47.40	-47.05	-40.00	-7.05
13762.52	Н	152	199	-74.61	15.07	47.46	-47.00	-40.00	-7.00
13762.29	V	164	218	-74.29	15.07	47.36	-46.68	-40.00	-6.68

Table 8-106. Radiated spurious emission Summary Data (_NR_n48_1C_40M_Middle Channel)

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