

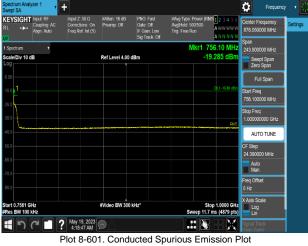


Plot 8-597. Conducted Spurious Emission Plot 9 kHz to 150 kHz

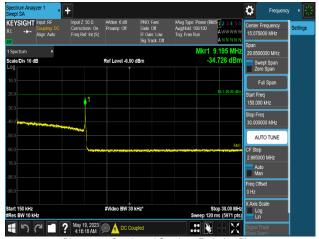


Plot 8-599. Conducted Spurious Emission Plot 30 MHz to 735 MHz

(LTE B13 1C_10M+NB-IoT(2GB)_2T_QPSK-Mid Channel, Port 0)



Plot 8-601. Conducted Spurious Emission Plot 756.1 MHz to 1 GHz (LTE B13 1C_10M+NB-IoT(2GB)_2T_QPSK-Mid Channel, Port 0)



Plot 8-598. Conducted Spurious Emission Plot 150 kHz to 30 MHz (LTE B13 1C_10M+NB-IoT(2GB)_2T_QPSK-Mid Channel, Port 0)





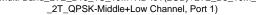
Plot 8-602. Conducted Spurious Emission Plot 1 GHz to 10 GHz (LTE B13 1C_10M+NB-IoT(2GB)_2T_QPSK-Mid Channel, Port 0)

FCC ID: A3LRF4461D-13A	element)	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 321 of 394
8K23040701-00-R1.A3L	04/12/2023 - 05/26/2023	RRU(RF4461d)	Fage 521 01 594
© 2022 Element		·	ES-QP-16-09 Rev.05

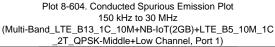




Plot 8-603. Conducted Spurious Emission Plot 9 kHz to 150 kHz (Multi-Band_LTE_B13_1C_10M+NB-IoT(2GB)+LTE_B5_10M_1C

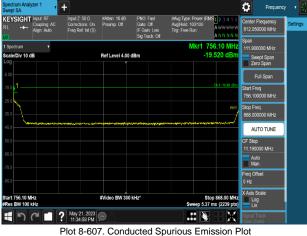








Plot 8-605. Conducted Spurious Emission Plot 30 MHz to 735 MHz (Multi-Band_LTE_B13_1C_10M+NB-IoT(2GB)+LTE_B5_10M_1C



Plot 8-607. Conducted Spurious Emission Plot 756.1 MHz to 868 GHz (Multi-Band_LTE_B13_1C_10M+NB-IoT(2GB)+LTE_B5_10M_1C _2T_QPSK-Middle+Low Channel, Port 1)

© 2022 Element



Plot 8-606. Conducted Spurious Emission Plot 735 MHz to 745.9 MHz (Multi-Band_LTE_B13_1C_10M+NB-IoT(2GB)+LTE_B5_10M_1C

2T_QPSK-Middle+Low Channel, Port 1)



Plot 8-608. Conducted Spurious Emission Plot 895 MHz to 1 GHz (Multi-Band_LTE_B13_1C_10M+NB-IoT(2GB)+LTE_B5_10M_1C _2T_QPSK-Middle+Low Channel, Port 1)

ES-QP-16-09 Rev.05

FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 322 of 394
8K23040701-00-R1.A3L	04/12/2023 - 05/26/2023	RRU(RF4461d)	Fage 322 01 394



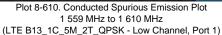


Plot 8-609. Conducted Spurious Emission Plot 1 GHz to 10 GHz (Multi-Band_LTE B13_LTE 10M+NB-IoT(2GB)_1C+B5_LTE_10M_1C _2T_QPSK-Middle+Low Channel, Port 1)

FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 323 of 394
8K23040701-00-R1.A3L	04/12/2023 - 05/26/2023	RRU(RF4461d)	Fage 323 01 394
© 2022 Element			ES-QP-16-09 Rev.05

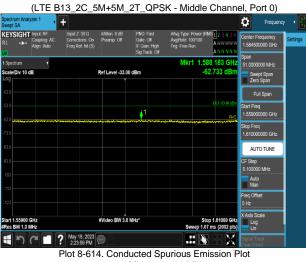






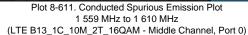


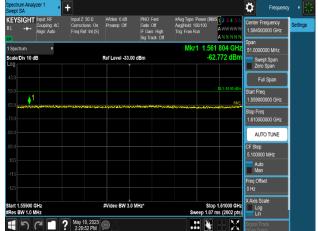
Plot 8-612. Conducted Spurious Emission Plot 1 559 MHz to 1 610 MHz



1 559 MHz to 1 610 MHz (LTE B13 10M+NB-IoT(1IB+1GB)_1C_2T_QPSK-Middle Channel, Port 0)







Plot 8-613. Conducted Spurious Emission Plot 1 559 MHz to 1 610 MHz



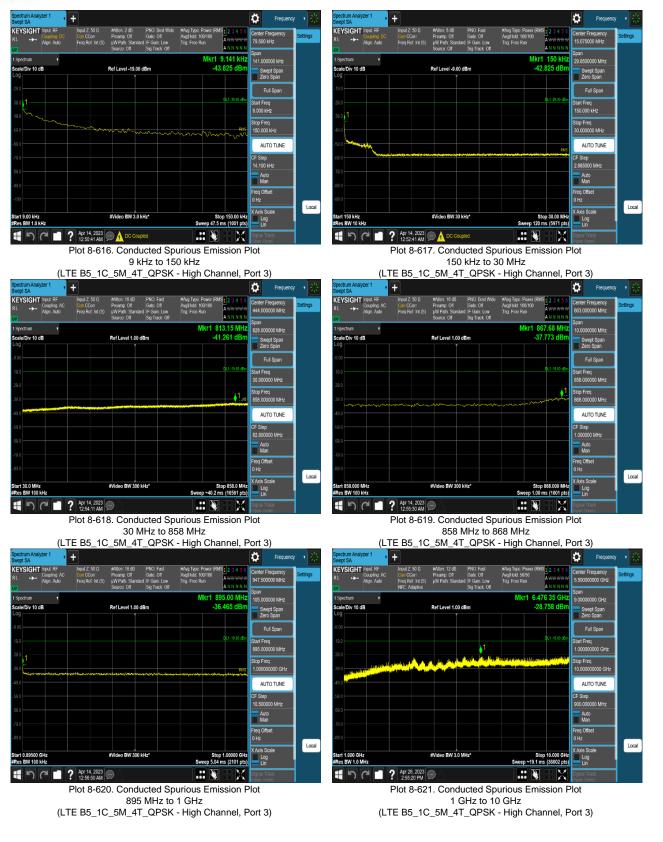


Plot 8-615. Conducted Spurious Emission Plot 1 559 MHz to 1 610 MHz (B13_LTE 5M+5M_2C+B5_LTE_5M+10M+10M_3C

_2T_QPSK-Middle+Middle Channel, Port 1)

FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 224 of 204
8K23040701-00-R1.A3L	04/12/2023 - 05/26/2023	RRU(RF4461d)	Page 324 of 394
© 2022 Element		•	ES-QP-16-09 Rev.05



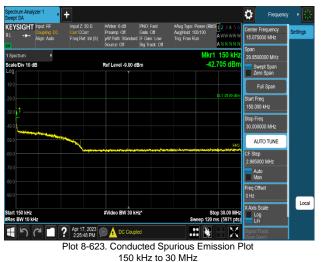


FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 225 of 204
8K23040701-00-R1.A3L	04/12/2023 - 05/26/2023	RRU(RF4461d)	Page 325 of 394
© 2022 Element			ES-QP-16-09 Rev.05









(LTE B5_1C_10M_4T_256QAM - Middle Channel, Port 0) Ö Freque + KEYSIGHT Input F Center Frequency 444.000000 MHz 822.45 N 00 MH Ref Level 1.00 dBm 41,307 (/Div 10 dB Full Span tart Freq 10.000000 MH AUTO TUNE Auto Man Local #Video BW 300 kHz art 30.0 MHz es BW 100 kHz Stop 858.0 MH ep ~40.2 ms (16561 pts Log Lin モアペロ ? Apr 17, 2023 2:27:42 PM Х Plot 8-624. Conducted Spurious Emission Plot

30 MHz to 858 MHz

(LTE B5_1C_10M_4T_256QAM - Middle Channel, Port 0)

#Video BW 300 kHz

Plot 8-626. Conducted Spurious Emission Plot

895 MHz to 1 GHz

(LTE B5_1C_10M_4T_256QAM - Middle Channel, Port 0)

Ö Frea

000 MH

Swept Span Zero Span

Start Freq 895.000000 MHz

AUTO TUNE

10.500000 MHz

Local

Auto Man Freq Offset 0 Hz

X Axis Scal

Log Lin

895.00 N

40 199 d

Stop 1.000 eep 5.04 ms (2

+

KEYSIGHT Input R

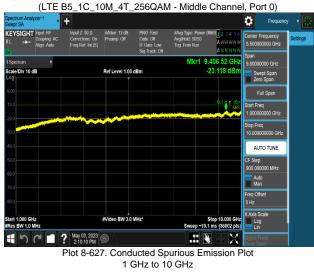
art 0.89500 GHz tes BW 100 kHz

4pr 17, 2023 2:30:31 PM





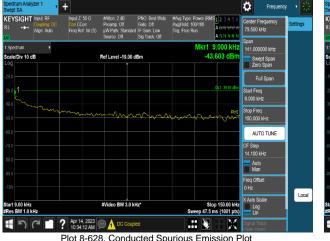
Plot 8-625. Conducted Spurious Emission Plot 858 MHz to 868 MHz

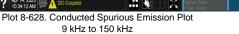


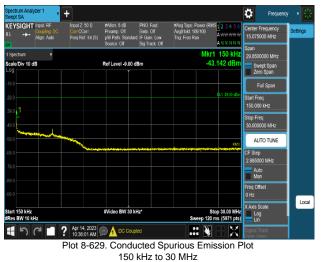
(LTE B5_1C_10M_4T_256QAM - Middle Channel, Port 0)

FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 326 of 394
8K23040701-00-R1.A3L	04/12/2023 - 05/26/2023	RRU(RF4461d)		Fage 320 01 394
© 2022 Element				ES-QP-16-09 Rev.05







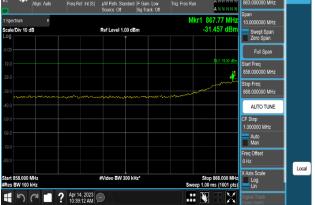


Ö Frequenc + KEYSIGHT Input: R ter Fred equency 000 MHz 44.00 825.75 Mi IO MH le/Div 10 dB Ref Level 1.00 dBm Swept Spa Zero Span Full Span Start Freq 30.000000 MHz op Freq AUTO TUNE Auto Man req Offse Local tart 30.0 MHz Res BW 100 kHz #Video BW 300 kHz Stop 858.0 MH Sweep ~40.2 ms (16561 pts Log Lin Apr 14, 2023
つ ご ? Apr 14, 2023 X

(LTE B5_2C_5M+5M_4T_16QAM - Middle Channel, Port 1)

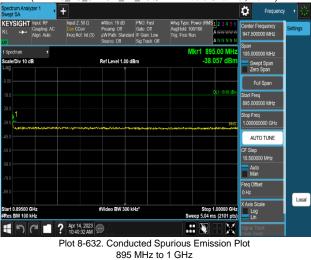


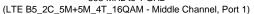
(LTE B5_2C_5M+5M_4T_16QAM - Middle Channel, Port 1)

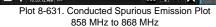


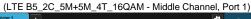
Plot 8-630. Conducted Spurious Emission Plot 30 MHz to 858 MHz

(LTE B5_2C_5M+5M_4T_16QAM - Middle Channel, Port 1)











(LTE B5_2C_5M+5M_4T_16QAM - Middle Channel, Port 1)

FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 327 of 394
8K23040701-00-R1.A3L	04/12/2023 - 05/26/2023	RRU(RF4461d)		Fage 321 01 394
© 2022 Element	•			ES-QP-16-09 Rev.05



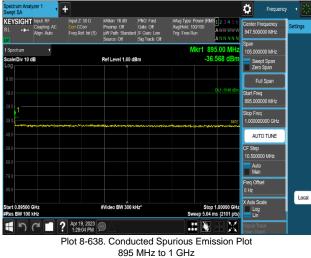


Plot 8-634. Conducted Spurious Emission Plot 9 kHz to 150 kHz (LTE B5_3C_5M+10M+10M_4T_16QAM - Middle Channel, Port 3)



Plot 8-636. Conducted Spurious Emission Plot 30 MHz to 858 MHz

(LTE B5_3C_5M+10M+10M_4T_16QAM - Middle Channel, Port 3)



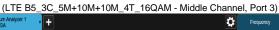
(LTE B5_3C_5M+10M+10M_4T_16QAM - Middle Channel, Port 3)

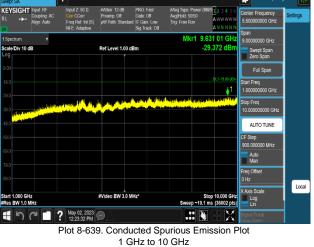


Plot 8-635. Conducted Spurious Emission Plot 150 kHz to 30 MHz (LTE B5_3C_5M+10M+10M_4T_16QAM - Middle Channel, Port 3)



Plot 8-637. Conducted Spurious Emission Plot 858 MHz to 868 MHz





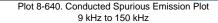
(LTE B5_3C_5M+10M+10M_4T_16QAM - Middle Channel, Port 3)

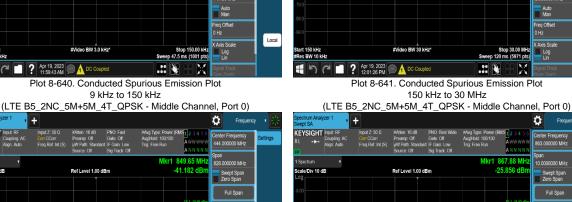
FCC ID: A3LRF4461D-13A	element 🤤	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 328 of 394
8K23040701-00-R1.A3L	04/12/2023 - 05/26/2023	RRU(RF4461d)	Fage 320 01 394
© 2022 Element		·	ES-QP-16-09 Rev.05



+







+

Freq Ref: Int (S

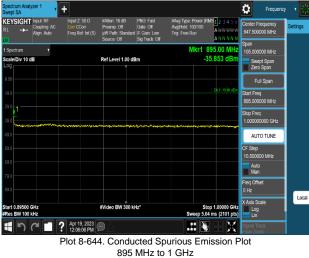
KEYSIGHT Input F

Alian: Aut

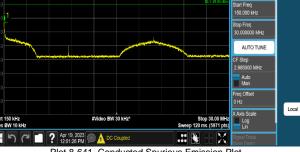
KEYSIGHT Input R Ref Level 1.00 dBm e/Div 10 dB itart Freq 30.000000 MHz AUTO TUNE Auto Man eq Offse Local tart 30.0 MHz Res BW 100 kHz #Video BW 300 kHz* Stop 858.0 MH Sweep ~40.2 ms (16561 pts Log Lin Apr 19, 2023 12:03:18 PM X

Plot 8-642. Conducted Spurious Emission Plot 30 MHz to 858 MHz

(LTE B5_2NC_5M+5M_4T_QPSK - Middle Channel, Port 0)







Ö

-42.121 dB

ter Frequency

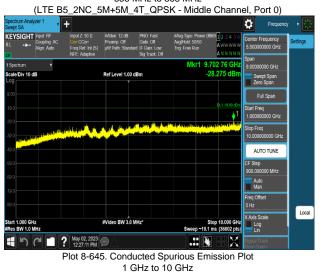
000 MH

Swept Span Zero Span

Plot 8-641. Conducted Spurious Emission Plot



Plot 8-643. Conducted Spurious Emission Plot 858 MHz to 868 MHz



(LTE B5 2NC 5M+5M 4T QPSK - Middle Channel, Port 0)

FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 329 of 394
8K23040701-00-R1.A3L	04/12/2023 - 05/26/2023	RRU(RF4461d)	Fage 329 01 394
© 2022 Element		·	ES-QP-16-09 Rev.05



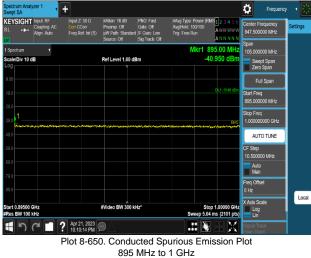


Plot 8-646. Conducted Spurious Emission Plot 9 kHz to 150 kHz



Plot 8-648. Conducted Spurious Emission Plot 30 MHz to 858 MHz

(DSS B(n)5_1C_10M(4:6 Ratio)_4T_16QAM - Low Channel, Port 2)



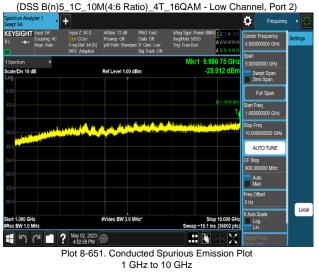




Plot 8-647. Conducted Spurious Emission Plot 150 kHz to 30 MHz



Plot 8-649. Conducted Spurious Emission Plot 858 MHz to 868 MHz

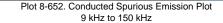


(DSS B(n)5_1C_10M(4:6 Ratio)_4T_16QAM - Low Channel, Port 2)

FCC ID: A3LRF4461D-13A	element 🤤	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 330 of 394
8K23040701-00-R1.A3L	04/12/2023 - 05/26/2023	RRU(RF4461d)	Fage 350 01 394
© 2022 Element		·	ES-QP-16-09 Rev.05





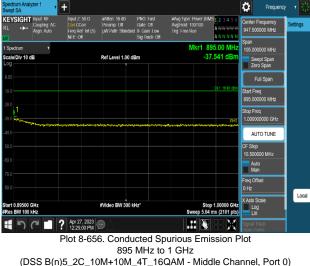




(DSS B(n)5_2C_10M+10M_4T_16QAM - Middle Channel, Port 0) Ö Frequenc + Swept SA KEYSIGHT Input: RF Coupling A er Frequency .000000 MHz 44.00 Freq Re NEE: O Spectrur 858.00 N 00 MH 42.428 d e/Div 10 dB Ref Level 1.00 dBm Swept Spa Zero Span itart Freq 30.000000 MHz top Freq IO MH AUTO TUNE Auto Man Local #Video BW 300 kHz art 30.0 MHz es BW 100 kHz Stop 858.0 MH: ep ~40.2 ms (16561 pts Log Lin ・ ペー・ ペロ・ Apr 27, 2023 (12:22:05 FM) 1 N X

Plot 8-654. Conducted Spurious Emission Plot 30 MHz to 858 MHz



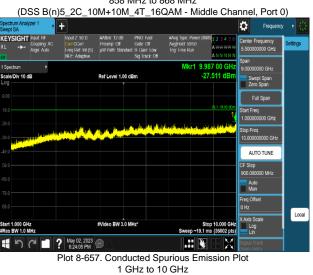




+

Frequency

Plot 8-655. Conducted Spurious Emission Plot 858 MHz to 868 MHz



(DSS B(n)5_2C_10M+10M_4T_16QAM - Middle Channel, Port 0)

FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 331 of 394
8K23040701-00-R1.A3L	04/12/2023 - 05/26/2023	RRU(RF4461d)		Fage 331 01 394
© 2022 Element	•	•		ES-QP-16-09 Rev.05

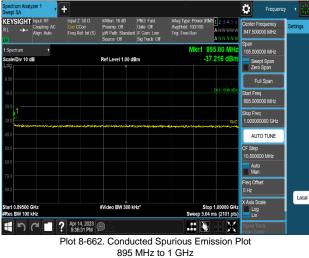






Plot 8-660. Conducted Spurious Emission Plot 30 MHz to 858 MHz

(NR n5_1C_5M_4T_64QAM - High Channel, Port 0)

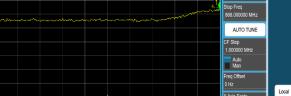


(NR n5_1C_5M_4T_64QAM - High Channel, Port 0)



Plot 8-659. Conducted Spurious Emission Plot 150 kHz to 30 MHz





C
 Port 4.2023
 Port 4.2023
 Port 8-661. Conducted Spurious Emission Plot

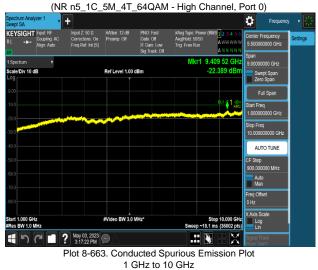
#Video BW 300 kHz*

art 858.000 MHz es BW 100 kHz

858 MHz to 868 MHz

Stop 868.000 MHz Sweep 1.00 ms (1001 pts)

Log Lin



(NR n5_1C_5M_4T_64QAM - High Channel, Port 0)

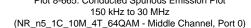
FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 332 of 394
8K23040701-00-R1.A3L	04/12/2023 - 05/26/2023	RRU(RF4461d)	Fage 352 01 394
© 2022 Element		·	ES-QP-16-09 Rev.05







Plot 8-664. Conducted Spurious Emission Plot 9 kHz to 150 kHz (NR_n5_1C_10M_4T_64QAM - Middle Channel, Port 0)



Trig: Ero

+

Freq Ref: Int (S

Ref Level 1.00 dBm

#Video BW 300 kHz*

KEYSIGHT

le/Div 10 dB

art 858.000 MHz es BW 100 kHz

Ö Frequ

867.55 MH -32.928 dBr

Stop 868.000 MHz Sweep 1.00 ms (1001 pts)

nter Frequency 3.000000 MHz

Swept Sp Zero Spar Full Span

Start Freq 858.000000 MHz

AUTO TUNE Step

Auto Man

req Offset

Log Lin

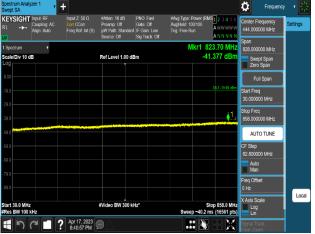
X Axis Sca

Log Lin

Stop 10.0 eep ~19.1 ms (360

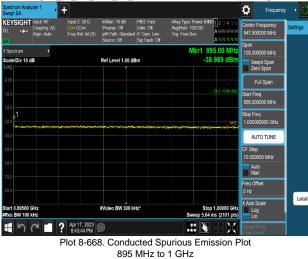
Local

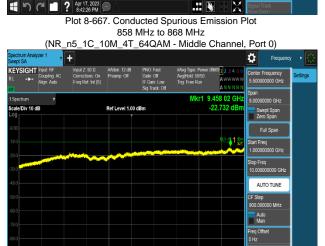
0 MH:



Plot 8-666. Conducted Spurious Emission Plot 30 MHz to 858 MHz

(NR_n5_1C_10M_4T_64QAM - Middle Channel, Port 0)





895 MHz to 1 GHz (NR_n5_1C_10M_4T_64QAM - Middle Channel, Port 0)

🕂 🏳 (~ 🗖 ? May 03, 2023 🗩 .: N Plot 8-669. Conducted Spurious Emission Plot 1 GHz to 10 GHz

#Video BW 3.0 MHz

(NR_n5_1C_10M_4T_64QAM - Middle Channel, Port 0)

FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 333 of 394
8K23040701-00-R1.A3L	04/12/2023 - 05/26/2023	RRU(RF4461d)	
© 2022 Element		·	ES-QP-16-09 Rev.05

rt 1.000 GHz Is BW 1.0 MHz