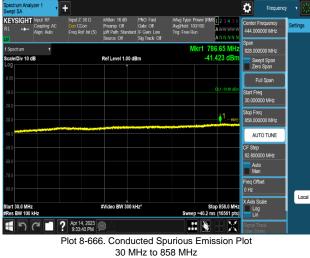
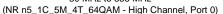




Plot 8-664. Conducted Spurious Emission Plot 9 kHz to 150 kHz

(NR n5_1C_5M_4T_64QAM - High Channel, Port 0)





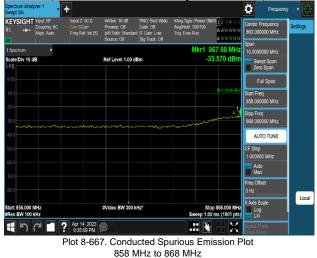


Plot 8-663. Conducted Spurious Emission Plot 1 GHz to 10 GHz



Plot 8-665. Conducted Spurious Emission Plot 150 kHz to 30 MHz

(NR n5_1C_5M_4T_64QAM - High Channel, Port 0)



(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:	Dega 222 of 404
8K23073101-00.A3L	04/12/2023 - 08/03/2023	RRU(RF4461d)	Page 333 of 404
© 2022 Element		·	ES-QP-16-09 Rev.05



+

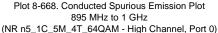
KEYSIGHT Input F

e/Div 10 dB

tart 9.00 kHz Res BW 1.0 kHz

Alian: Au





Ref Level -19.00 dBm

#Video BW 3.0 kHz*

Ö

9.000 kH

45 235 d

Stop 150.00 kH Sweep 47.5 ms (1001 pts

.: 🔌

. 79.500 kHz

pan |41.000000 kHz

Swept Spa Zero Span

Start Freq 9.000 kHz

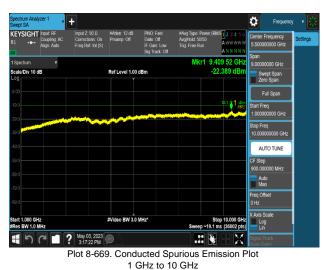
CF Step 14.100 kHz

Auto Man eq Offse

Log Lin

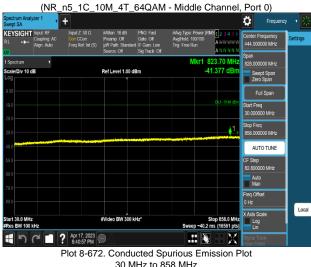
AUTO TUNE

Local

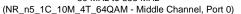




Apr 17, 2023 (回入) DC Coupled 8:37:18 PM Plot 8-670. Conducted Spurious Emission Plot 9 kHz to 150 kHz

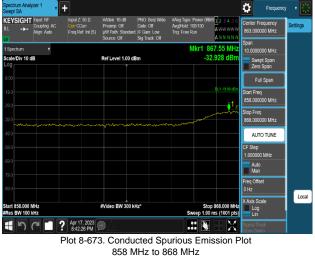






Plot 8-671. Conducted Spurious Emission Plot 150 kHz to 30 MHz

(NR_n5_1C_10M_4T_64QAM - Middle Channel, Port 0)



(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:	Dage 224 of 404
8K23073101-00.A3L	04/12/2023 - 08/03/2023	RRU(RF4461d)	Page 334 of 404
© 2022 Element	•		ES-QP-16-09 Rev.05



+

日 ? Apr 19, 2023 の人 DC Coupled 12:36:22 AM

+

KEYSIGHT Input

e/Div 10 dB

tart 9.00 kHz Res BW 1.0 kHz

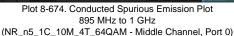
ctrum. KEYSIGHT Input RF

....

art 30.0 MHz es BW 100 kHz

Apr 19, 2023





Ref Level -19.00 dBm

#Video BW 3.0 kHz*

Ref Level 1.00 dB

#Video BW 300 kHz

Plot 8-678. Conducted Spurious Emission Plot

30 MHz to 858 MHz

(NR n5_1C_15M_4T_16QAM - High Channel, Port 0)

Plot 8-676. Conducted Spurious Emission Plot 9 kHz to 150 kHz

(NR n5_1C_15M_4T_16QAM - High Channel, Port 0)

Ö

lkr1 9.987 kH

44.687 d

Stop 150.00 kH Sweep 47.5 ms (1001 pts

833.40 M

41 443 d

Stop 858.0 M Sweep ~40.2 ms (16561 p

X

.: 🔌

. 79.500 kHz

pan |41.000000 kHz

Swept Spa Zero Span

Start Freq 9.000 kHz

CF Step 14.100 kHz

Auto Man eq Offse

Log Lin

Ö Freq

000 MH

Swept Span Zero Span

Start Freq 30.000000 MHz

DO MHz

Local

AUTO TUNE

82.800000 MHz

Auto Man Freq Offset 0 Hz

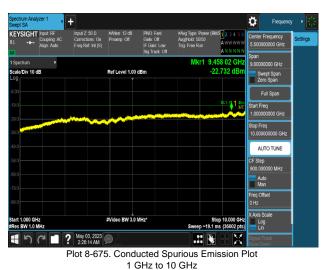
X Axis Scal

Log Lin

top Freq 858.00

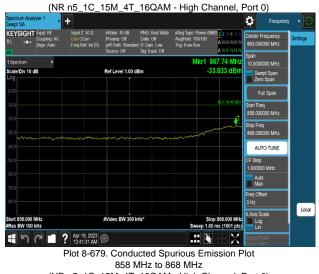
AUTO TUNE

Local



(NR_n5_1C_10M_4T_64QAM - Middle Channel, Port 0) Ö + Frequ KEYSIGHT IN Center Frequency 15.075000 MHz Freq Ref: Int (S lkr1 150 kH -42.549 dBr 00 MH: le/Div 10 dB Ref Level -9.00 dBm Swept Spa Zero Span Start Freq 150.000 kHz top Freq P0000 MHz AUTO TUNE Step Auto Man req Offset Local #Video BW 30 kHz* art 150 kHz les BW 10 kHz Stop 30.00 MHz Sweep 120 ms (5971 pts) Log Lin 目り CP II ? Apr 19, 2023 の<u>人</u> DC Couplec

Plot 8-677. Conducted Spurious Emission Plot 150 kHz to 30 MHz

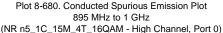


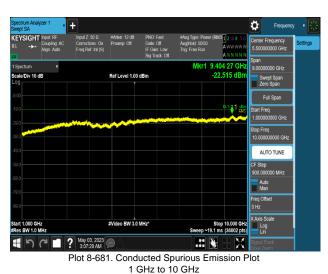
(NR n5_1C_15M_4T_16QAM - High Channel, Port 0)

FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 225 of 404
8K23073101-00.A3L	04/12/2023 - 08/03/2023	RRU(RF4461d)	Page 335 of 404
© 2022 Element			ES-QP-16-09 Rev.05









Ö Frequ

Center Frequency 15.075000 MHz

Swept Spa Zero Span

Start Freq 150.000 kHz lop Freq 200000 MHz

AUTO TUNE

Local

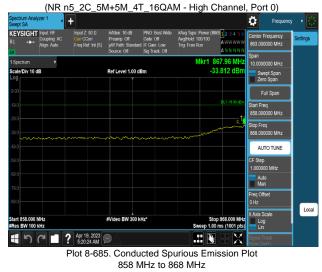
0 MH:

(NR n5_1C_15M_4T_16QAM - High Channel, Port 0) Ö + KEYSIGHT Input I . 79.500 kHz Freq Ref: Int (S pan |41.000000 kHz lkr1 150 kH -42.191 dB le/Div 10 dB Ref Level -9.00 dBm Swept Spa Zero Span Start Freq 9.000 kHz AUTO TUNE CF Step 14.100 kHz Auto Man eq Offse Local #Video BW 30 kHz* art 150 kHz les BW 10 kHz Log Lin ● C ■ ? Apr 19, 2023 ● A DC Couple X

Step Auto Man req Offset Stop 30.00 MHz Sweep 120 ms (5971 pts) Log Lin

Plot 8-683. Conducted Spurious Emission Plot

150 kHz to 30 MHz



(NR n5_2C_5M+5M_4T_16QAM - High Channel, Port 0)

FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 226 of 404
8K23073101-00.A3L	04/12/2023 - 08/03/2023	RRU(RF4461d)	Page 336 of 404
© 2022 Element			ES-QP-16-09 Rev.05

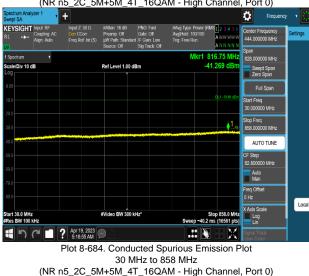
Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without written permission from Element. If you have any questions about this or have an inquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

+



Plot 8-682. Conducted Spurious Emission Plot 9 kHz to 150 kHz

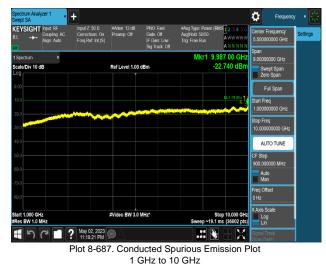
(NR n5_2C_5M+5M_4T_16QAM - High Channel, Port 0)



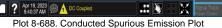






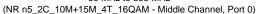




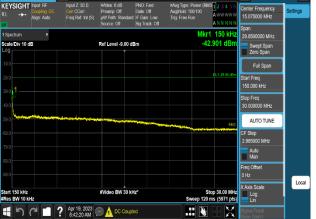


9 kHz to 150 kHz



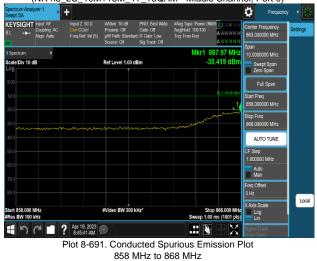


(NR n5_2C_5M+5M_4T_16QAM - High Channel, Port 0) Ö Frequ +



Plot 8-689. Conducted Spurious Emission Plot 150 kHz to 30 MHz

(NR n5_2C_10M+15M_4T_16QAM - Middle Channel, Port 0)



(NR n5_2C_10M+15M_4T_16QAM - Middle Channel, Port 0)

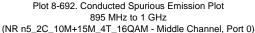
FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 227 of 404
8K23073101-00.A3L	04/12/2023 - 08/03/2023	RRU(RF4461d)	Page 337 of 404
© 2022 Element		·	ES-QP-16-09 Rev.05



+

KEYSIGHT Input

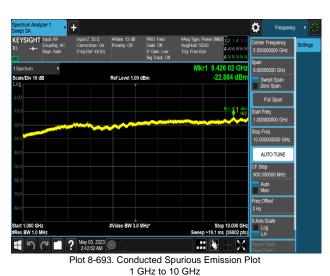




Ö

. 79.500 kHz

Frequency

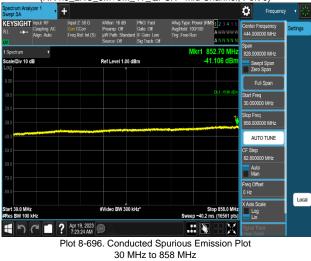


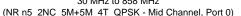




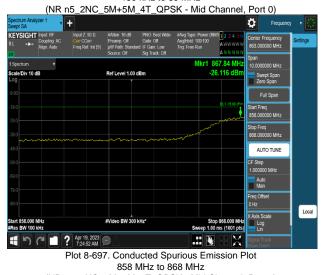
Plot 8-694. Conducted Spurious Emission Plot 9 kHz to 150 kHz

(NR n5_2NC_5M+5M_4T_QPSK - Mid Channel, Port 0)





Plot 8-695. Conducted Spurious Emission Plot 150 kHz to 30 MHz



(NR n5_2NC_5M+5M_4T_QPSK - Mid Channel, Port 0)

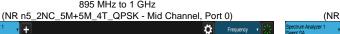
FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Demo 228 of 404
8K23073101-00.A3L	04/12/2023 - 08/03/2023	RRU(RF4461d)	Page 338 of 404
© 2022 Element	•	·	ES-QP-16-09 Rev.05







Plot 8-698. Conducted Spurious Emission Plot 895 MHz to 1 GHz

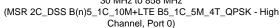




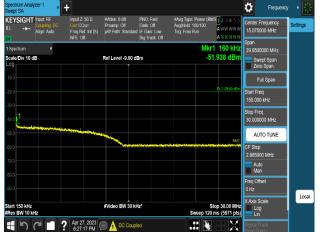
Plot 8-700. Conducted Spurious Emission Plot 9 kHz to 150 kHz

(MSR 2C_DSS B(n)5_1C_10M+LTE B5_1C_5M_4T_QPSK - High Channel, Port 0)

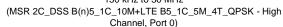




1 GHz to 10 GHz (NR n5_2NC_5M+5M_4T_QPSK - Mid Channel, Port 0)



Plot 8-701. Conducted Spurious Emission Plot 150 kHz to 30 MHz





Plot 8-703. Conducted Spurious Emission Plot 858 MHz to 868 MHz (MSR 2C_DSS B(n)5_1C_10M+LTE B5_1C_5M_4T_QPSK - High

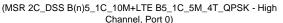
Channel, Port 0)

FCC ID: A3LRF4461D-13A	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 220 of 404
8K23073101-00.A3L	04/12/2023 - 08/03/2023	RRU(RF4461d)	Page 339 of 404
© 2022 Element			ES-QP-16-09 Rev.05





Plot 8-704. Conducted Spurious Emission Plot 895 MHz to 1 GHz





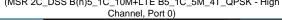
Plot 8-706. Conducted Spurious Emission Plot 9 kHz to 150 kHz

(MSR 3C_DSS B(n)5_2C_10M+10H+LTE B5_1C_5M_4T_16QAM -Middle Channel, Port 0)



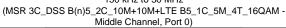
Ö, + KEYSIGHT Input er Frequency 00 GH -22.517 dB Swept Span Zero Span top Freq AUTO TUNE 900.00 00 MH: Auto Man Freq Offset 0 Hz Local #Video BW 3.0 MHz* art 1.000 GHz es BW 1.0 MHz Log Lin Stop 10.0 ~19.1 ms (36 458.09 AM .:: 🔖

Plot 8-705. Conducted Spurious Emission Plot 1 GHz to 10 GHz (MSR 2C_DSS B(n)5_1C_10M+LTE B5_1C_5M_4T_QPSK - High





Plot 8-707. Conducted Spurious Emission Plot 150 kHz to 30 MHz





Plot 8-709. Conducted Spurious Emission Plot 858 MHz to 868 MHz

(MSR 3C_DSS B(n)5_2C_10M+10M+LTE B5_1C_5M_4T_16QAM -Middle Channel, Port 0)

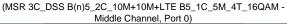
(MSR 3C_DSS B(n)5_2C_10M+10M+LTE B5_1C_5M_4T_16QAM -Middle Channel, Port 0)

	FCC ID: A3LRF4461D-13A	🕞 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
	Test Report S/N:	Test Dates:	EUT Type:	Dega 240 of 404
	8K23073101-00.A3L	04/12/2023 - 08/03/2023	RRU(RF4461d)	Page 340 of 404
-	© 2022 Element			ES-QP-16-09 Rev.05





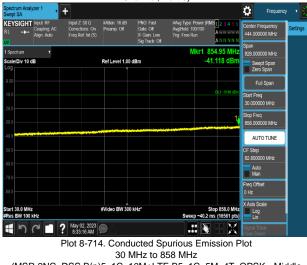
Plot 8-710. Conducted Spurious Emission Plot 895 MHz to 1 GHz





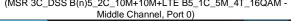
Plot 8-712. Conducted Spurious Emission Plot

9 kHz to 150 kHz (MSR 2NC_DSS B(n)5_1C_10M+LTE B5_1C_5M_4T_QPSK - Middle Channel, Port 0)



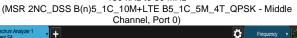


Plot 8-711. Conducted Spurious Emission Plot 1 GHz to 10 GHz (MSR 3C_DSS B(n)5_2C_10M+10M+LTE B5_1C_5M_4T_16QAM -





Plot 8-713. Conducted Spurious Emission Plot 150 kHz to 30 MHz





Plot 8-715. Conducted Spurious Emission Plot 858 MHz to 868 MHz

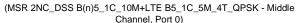
(MSR 2NC_DSS B(n)5_1C_10M+LTE B5_1C_5M_4T_QPSK - Middle Channel, Port 0) (MSR 2NC_DSS B(n)5_1C_10M+LTE B5_1C_5M_4T_QPSK - Middle Channel, Port 0)

FCC ID: A3LRF4461D-13A	element 🤤	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dege 244 of 404
8K23073101-00.A3L	04/12/2023 - 08/03/2023	RRU(RF4461d)		Page 341 of 404
© 2022 Element				ES-QP-16-09 Rev.05





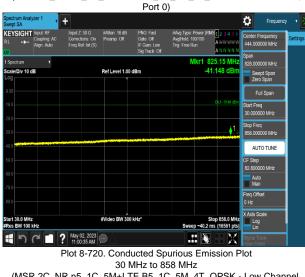
Plot 8-716. Conducted Spurious Emission Plot 895 MHz to 1 GHz





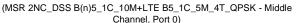
Plot 8-718. Conducted Spurious Emission Plot

9 kHz to 150 kHz (MSR 2C_NR n5_1C_5M+LTE B5_1C_5M_4T_QPSK - Low Channel,



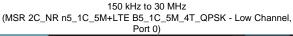


Plot 8-717. Conducted Spurious Emission Plot 1 GHz to 10 GHz (MSR 2NC DSS B(b)5 1C 10MH TE B5 1C 5M 4T OPSK - Middle





Plot 8-719. Conducted Spurious Emission Plot





Plot 8-721. Conducted Spurious Emission Plot 858 MHz to 868 MHz

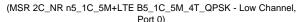
(MSR 2C_NR n5_1C_5M+LTE B5_1C_5M_4T_QPSK - Low Channel, Port 0) (MSR 2C_NR n5_1C_5M+LTE B5_1C_5M_4T_QPSK - Low Channel, Port 0)

FCC ID: A3LRF4461D-13A	element)	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 242 of 404
8K23073101-00.A3L	04/12/2023 - 08/03/2023	RRU(RF4461d)	Page 342 of 404
© 2022 Element			ES-QP-16-09 Rev.05





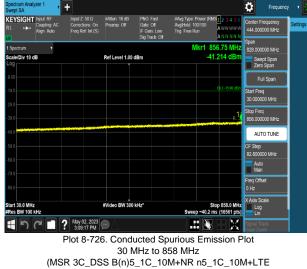
Plot 8-722. Conducted Spurious Emission Plot 895 MHz to 1 GHz





Plot 8-724. Conducted Spurious Emission Plot 9 kHz to 150 kHz

(MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_4T_16QAM - Mid Channel, Port 0)

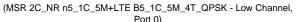


B5_1C_5M_4T_16QAM - Mid Channel, Port 0)

© 2022 Element



Plot 8-723. Conducted Spurious Emission Plot 1 GHz to 10 GHz





Plot 8-725. Conducted Spurious Emission Plot 150 kHz to 30 MHz

(MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE B5_1C_5M_4T_16QAM - Mid Channel, Port 0)



Plot 8-727. Conducted Spurious Emission Plot 858 MHz to 868 MHz (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE

B5_1C_5M_4T_16QAM - Mid Channel, Port 0)

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 343 of 404
8K23073101-00.A3L	04/12/2023 - 08/03/2023	RRU(RF4461d)	Page 343 01 404