

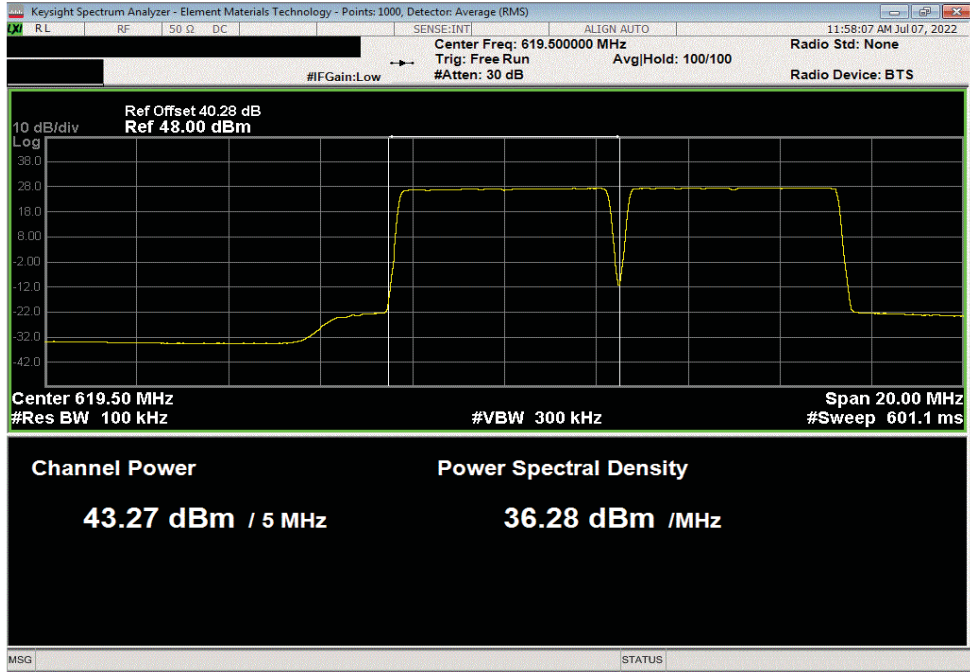
# OUTPUT POWER - MULTIBAND MULTICARRIER



Tel: 2022.05.02.0 XMI: 2022.02.07.0

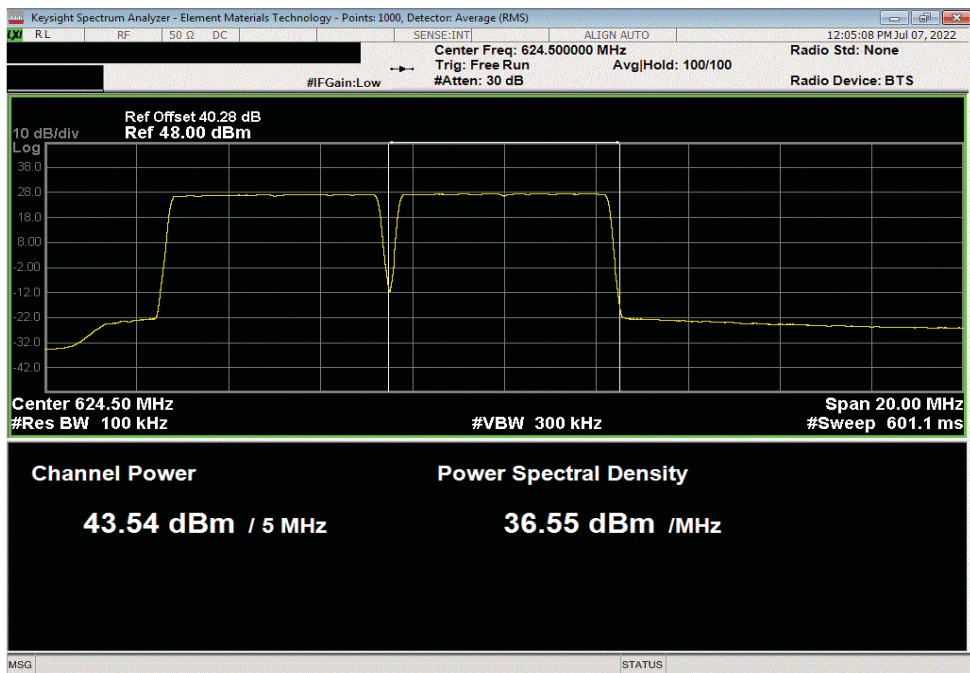
LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 4, LTE5 n71 Carrier 1, 619.5 MHz

Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Avg Cond Carrier Pwr (dBm)	Avg Cond Band Pwr (dBm)	Limit (dBm)	Results
43.266	0	43.3	N/A	Within Tolerance	Pass



LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 4, LTE5 n71 Carrier 2, 624.5 MHz

Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Avg Cond Carrier Pwr (dBm)	Avg Cond Band Pwr (dBm)	Limit (dBm)	Results
43.543	0	43.5	N/A	Within Tolerance	Pass



# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 LTE



XMH 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3239	ANE	2022-03-02	2023-03-02
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

Because the conducted Output Power was measured using a RMS Average detector, the Peak to Average Power Ratio (PAPR) was measured to show that the maximum peak-max-hold spectrum to the maximum of the average spectrum does not exceed the rule part defined limit.

The PAPR measurement method is described in ANSI C63.26 section 5.2.3.4.  
The PAPR was measured using the CCDF function of the spectrum analyzer.

Per FCC part 27.50(d)(5) and RSS-130 section 4.6.1, the PAPR limit shall not exceed 13 dB for more than the ANSI described 0.1% of the time.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHLOB) as the original certification test. The AHLOB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 LTE



TelTx 2022.05.02.0 XMI 2022.02.07.0

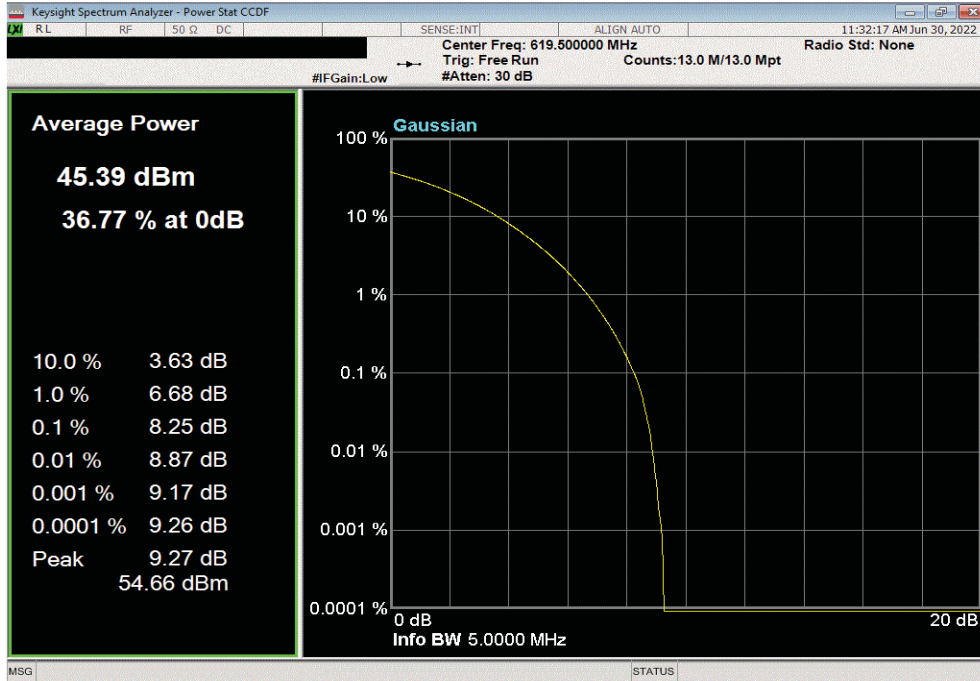
EUT: AHLOB		Work Order: NOKI0043	
Serial Number: YK220900029		Date: 11-Jul-22	
Customer: Nokia Solutions and Networks		Temperature: 21.4 °C	
Attendees: Mitchell Hill, John Rattanavong		Humidity: 57% RH	
Project: None		Barometric Pres.: 1015 mbar	
Tested by: Marty Martin	Power: 54 VDC	Job Site: TX07	
TEST SPECIFICATIONS			
FCC 27:2022		Test Method	
RSS-130 Issue 2:2019		ANSI C63.26:2015	
		ANSI C63.26:2015	
COMMENTS			
All losses in the measurement path were accounted for: attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature <i>Marty Martin</i>	
		PAPR Value (dB)	PAPR Limit (dB) Results
Port 2, LTE, Band 71, 617 MHz - 652 MHz			
5 MHz Bandwidth			
256-QAM Modulation			
	Low Ch. 619.5 MHz	8.25	13 Pass
	Mid Ch. 634.5 MHz	8.23	13 Pass
	High Ch. 649.5 MHz	8.19	13 Pass
10 MHz Bandwidth			
256-QAM Modulation			
	Low Ch. 622 MHz	8.01	13 Pass
	Mid Ch. 634.5 MHz	8.11	13 Pass
	High Ch. 647 MHz	8.01	13 Pass
15 MHz Bandwidth			
QPSK Modulation			
	Mid Ch. 634.5 MHz	7.2	13 Pass
16-QAM Modulation			
	Mid Ch. 634.5 MHz	7.2	13 Pass
64-QAM Modulation			
	Mid Ch. 634.5 MHz	7.21	13 Pass
256-QAM Modulation			
	Low Ch. 624.5 MHz	7.52	13 Pass
	Mid Ch. 634.5 MHz	7.22	13 Pass
	High Ch. 644.5 MHz	7.56	13 Pass
20 MHz Bandwidth			
256-QAM Modulation			
	Low Ch. 627 MHz	7.52	13 Pass
	Mid Ch. 634.5 MHz	7.19	13 Pass
	High Ch. 642 MHz	7.62	13 Pass

# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 LTE

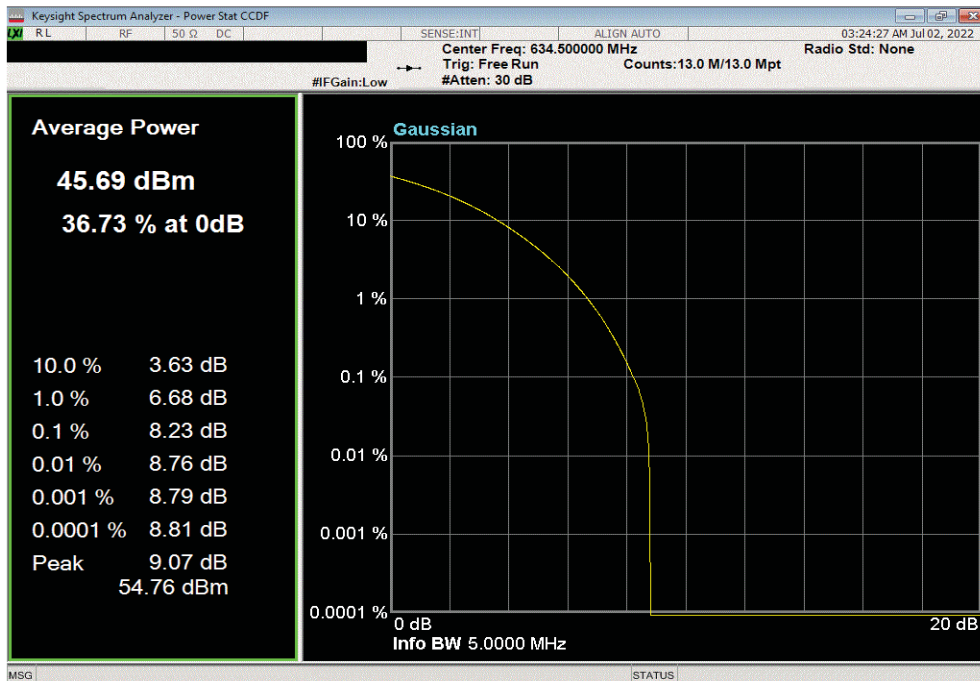


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Ch. 619.5 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	8.25	13	Pass			



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Ch. 634.5 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	8.23	13	Pass			

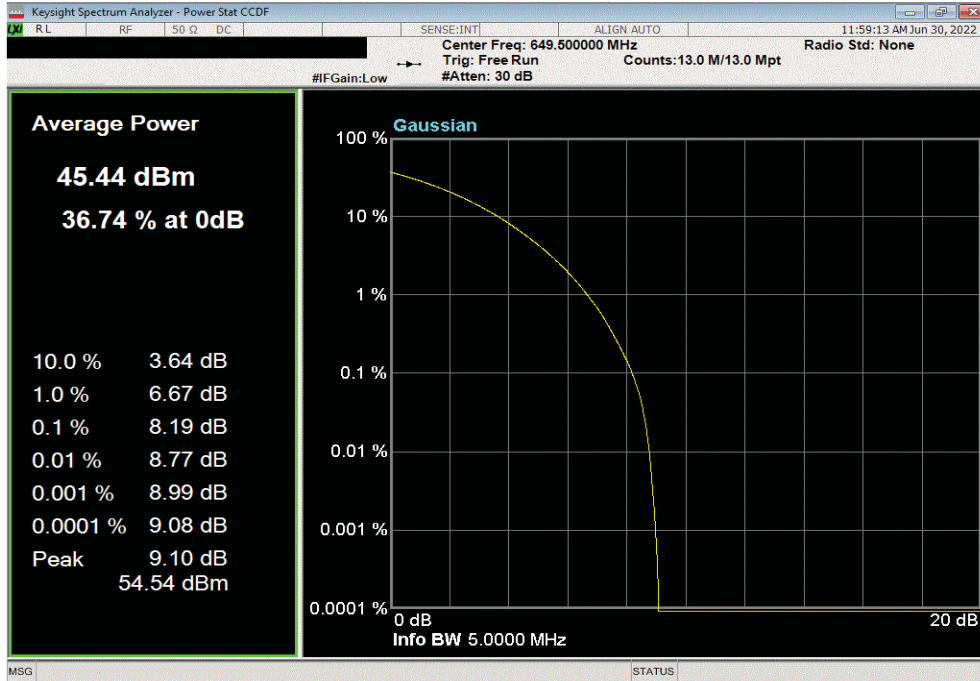


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 LTE

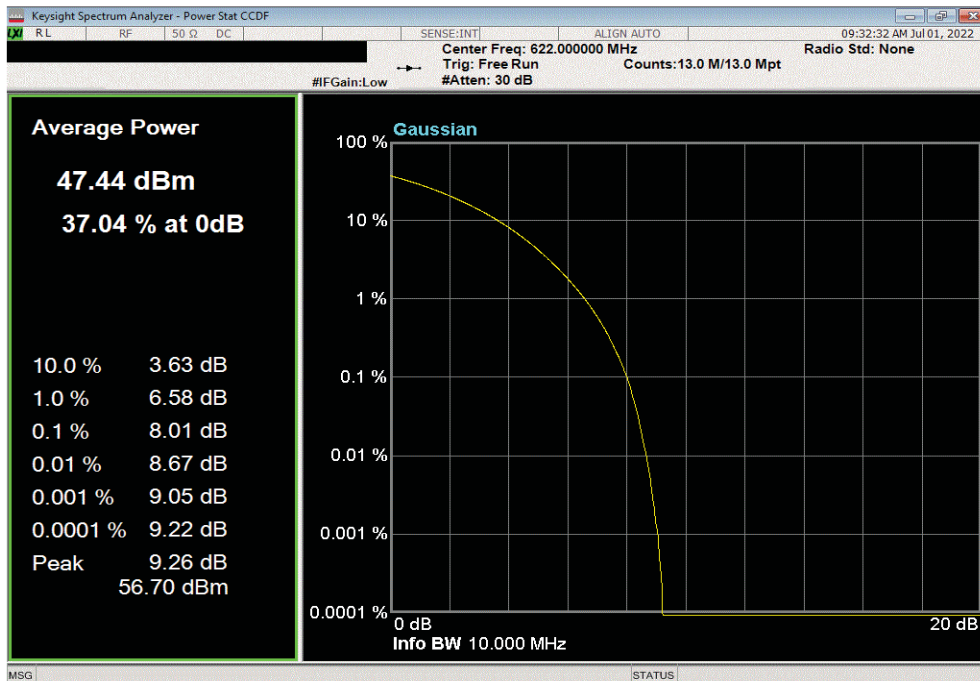


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, High Ch. 649.5 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	8.19	13	Pass			



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Ch. 622 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	8.01	13	Pass			

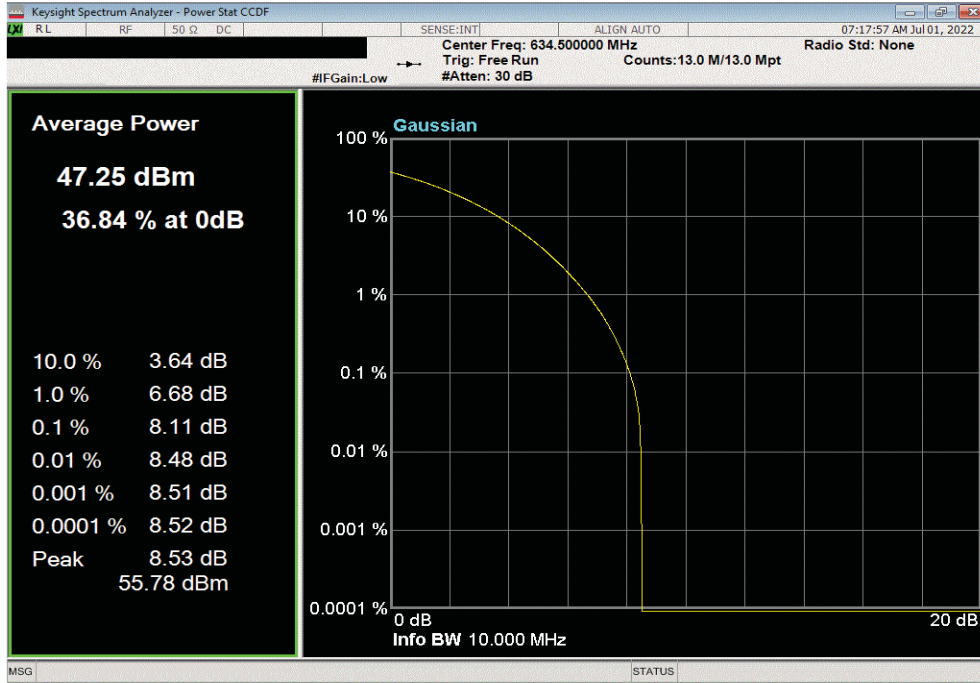


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 LTE

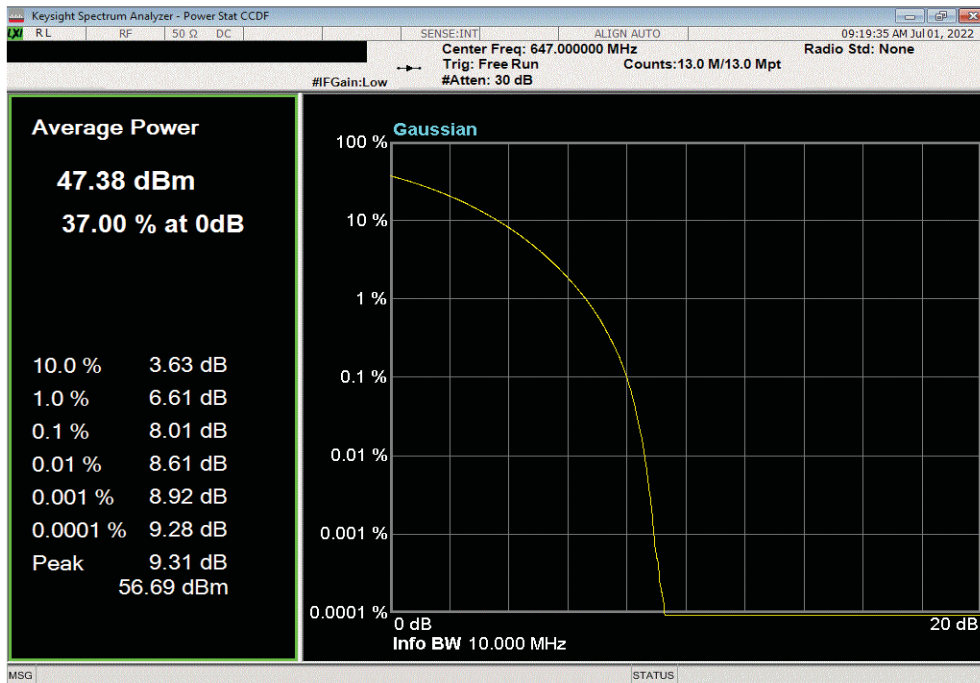


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Ch. 634.5 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	8.11	13	Pass			



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Ch. 647 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	8.01	13	Pass			



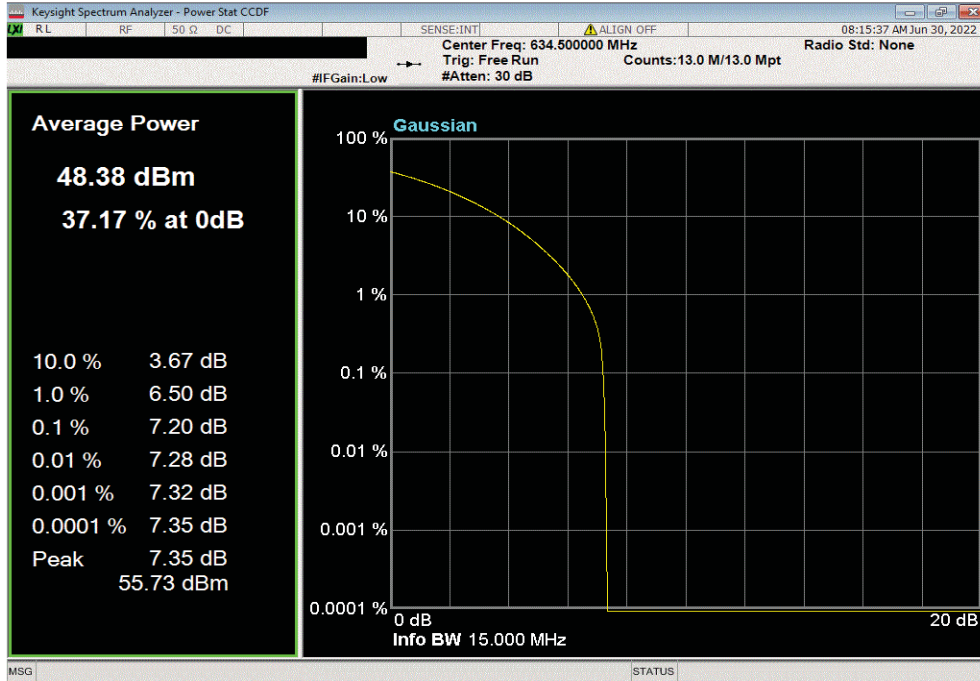


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 LTE

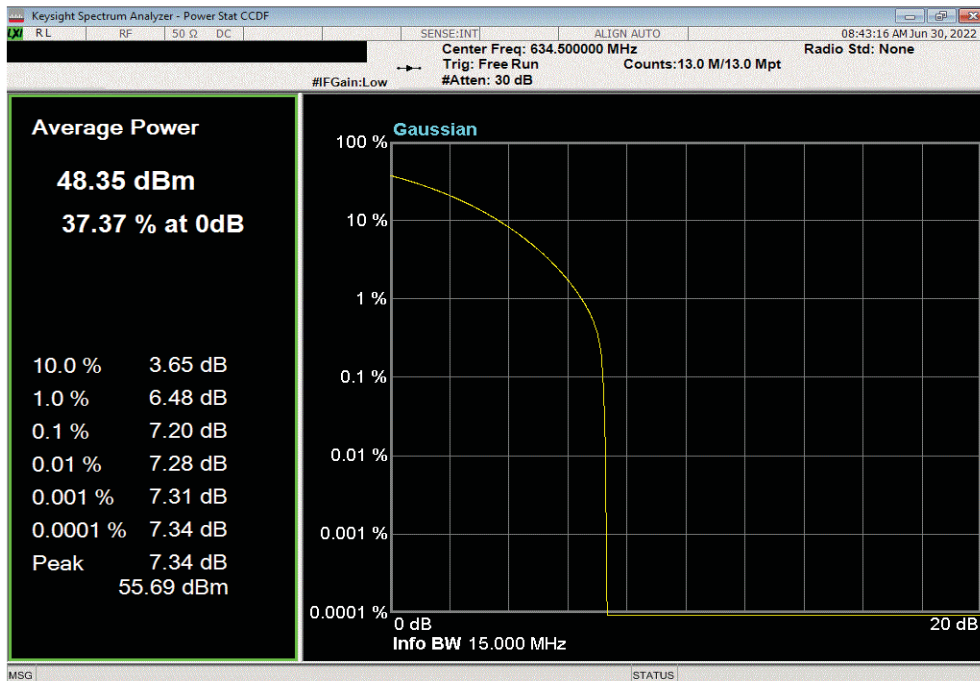


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, QPSK Modulation, Mid Ch. 634.5 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	7.2	13	Pass			



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Mid Ch. 634.5 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	7.2	13	Pass			

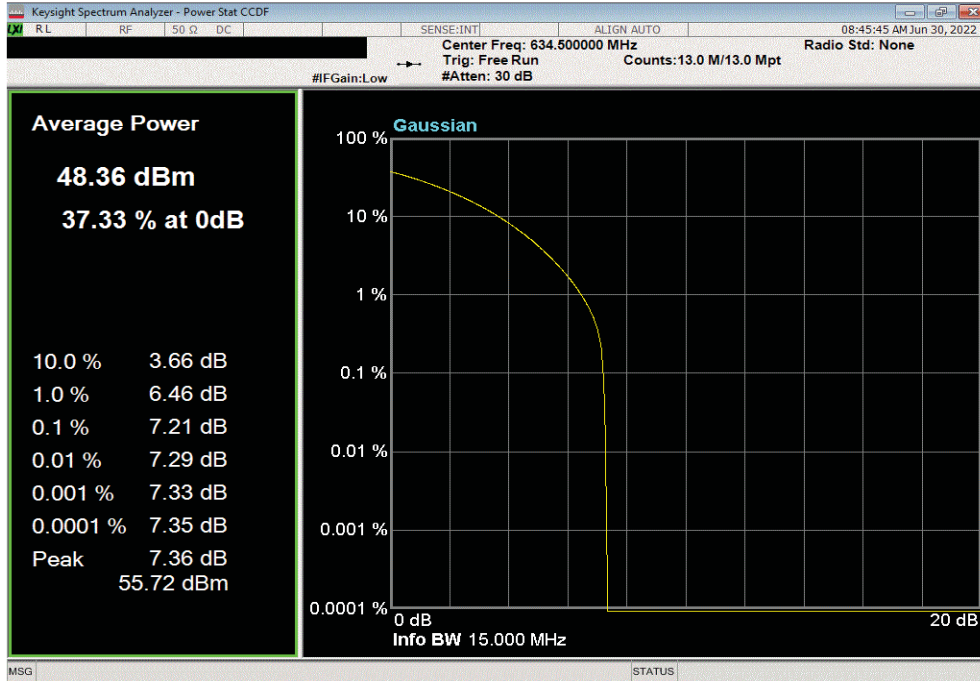


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 LTE

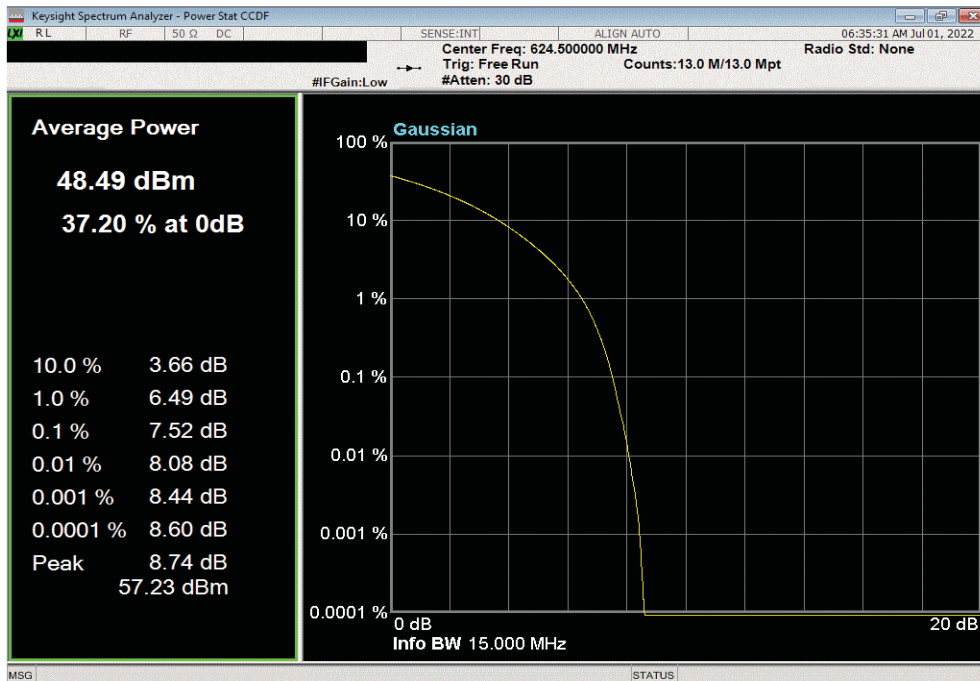


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Mid Ch. 634.5 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.21	13	Pass		



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Ch. 624.5 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.52	13	Pass		



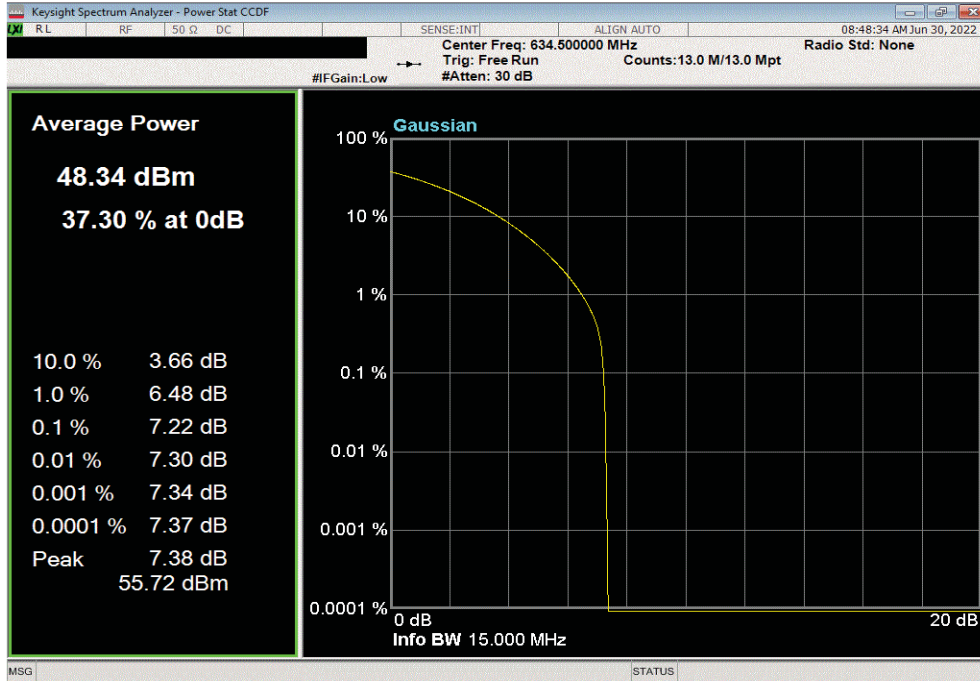


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 LTE

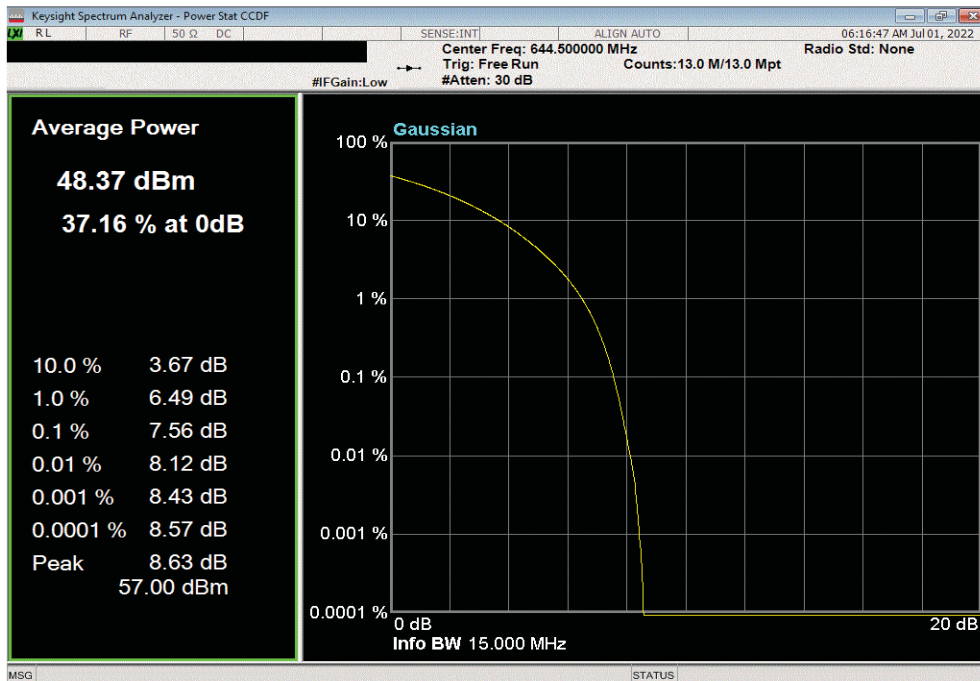


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Ch. 634.5 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.22	13	Pass		



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Ch. 644.5 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.56	13	Pass		

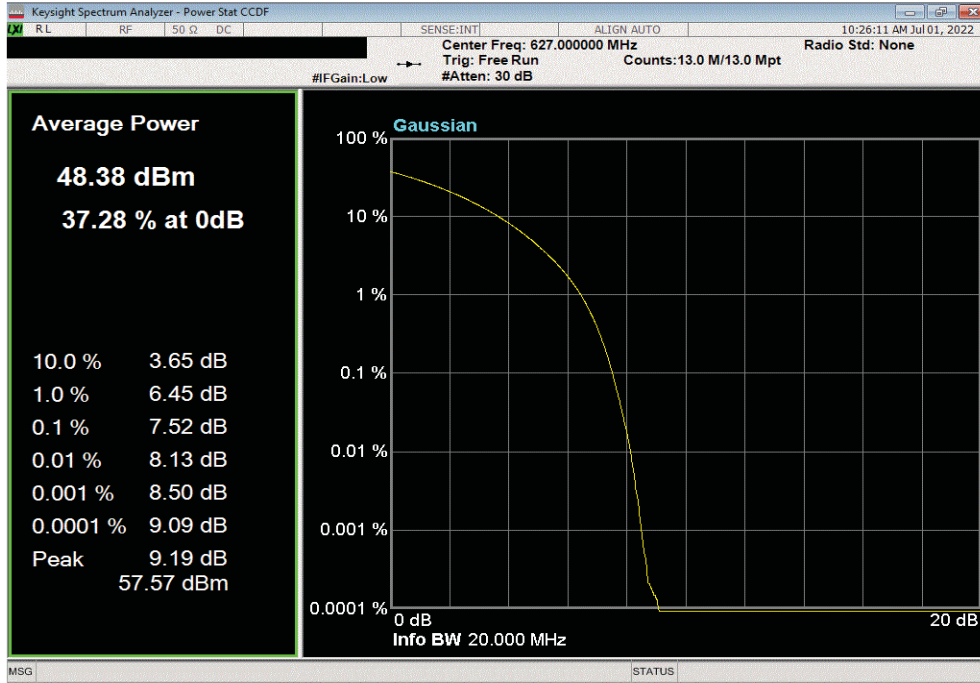


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 LTE

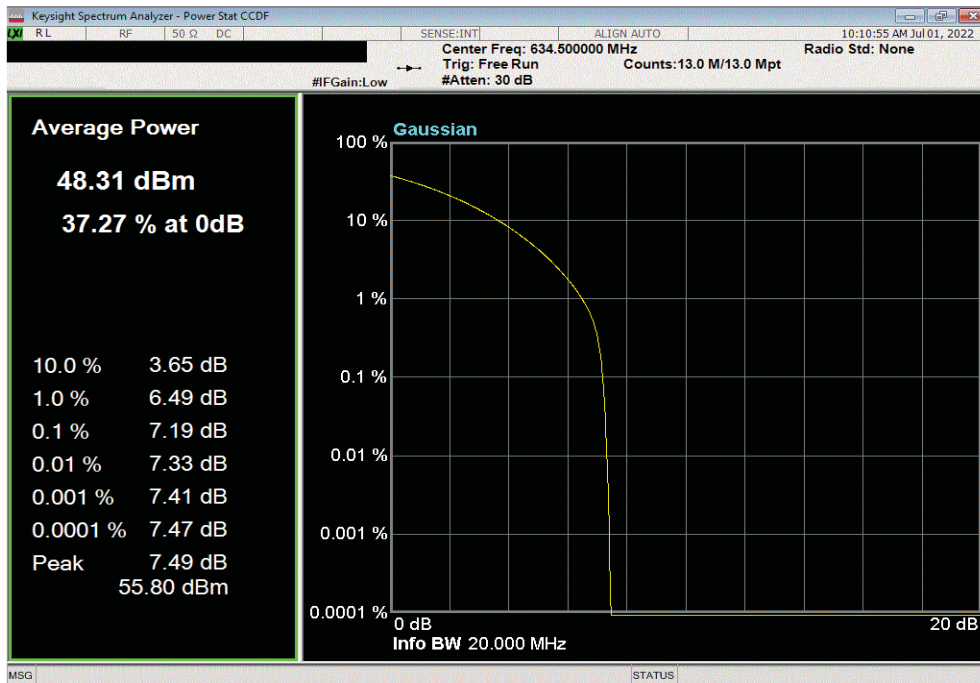


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Ch. 627 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.52	13	Pass		



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Ch. 634.5 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.19	13	Pass		

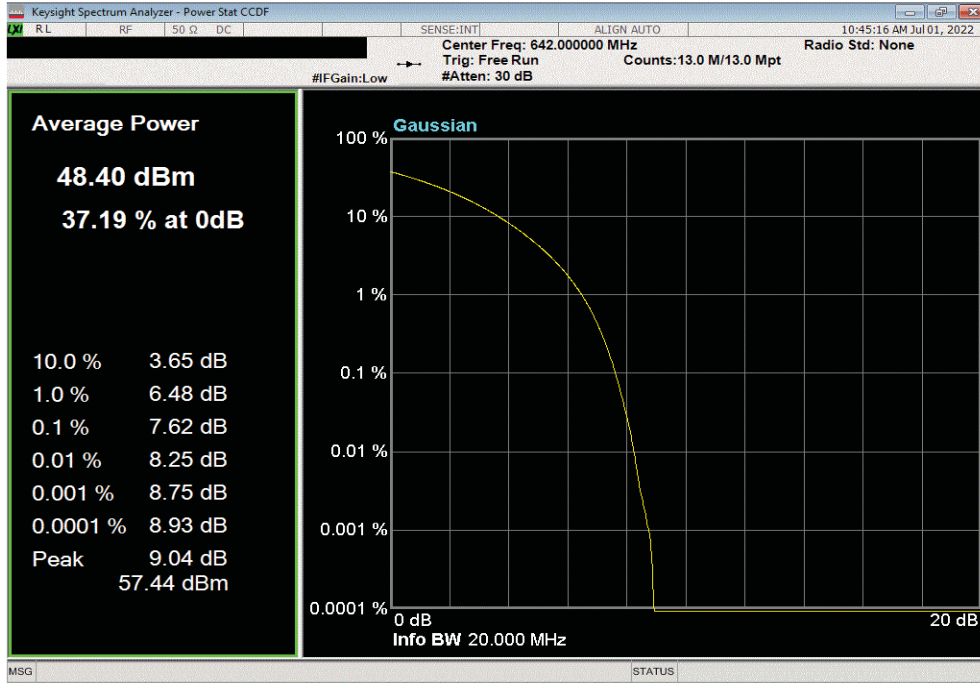


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 LTE



TbTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Ch. 642 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.62	13	Pass		



# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 LTE



XMH 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3239	ANE	2022-03-02	2023-03-02
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

Because the conducted Output Power was measured using a RMS Average detector, the Peak to Average Power Ratio (PAPR) was measured to show that the maximum peak-max-hold spectrum to the maximum of the average spectrum does not exceed the rule part defined limit.

The PAPR measurement method is described in ANSI C63.26 section 5.2.3.4.  
The PAPR was measured using the CCDF function of the spectrum analyzer.

Per FCC part 27.50(d)(5) and RSS-130 section 4.6.1, the PAPR limit shall not exceed 13 dB for more than the ANSI described 0.1% of the time.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHLOB) as the original certification test. The AHLOB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 LTE



TelTx 2022.05.02.0 XMI 2022.02.07.0

EUT: AHLOB		Work Order: NOKI0043		
Serial Number: YK220900029		Date: 11-Jul-22		
Customer: Nokia Solutions and Networks		Temperature: 21.2 °C		
Attendees: Mitchell Hill, John Rattanaovong		Humidity: 53.9% RH		
Project: None		Barometric Pres.: 1013 mbar		
Tested by: Marty Martin	Power: 54 VDC	Job Site: TX07		
TEST SPECIFICATIONS				
FCC 27:2022		Test Method		
RSS-130 Issue 2:2019		ANSI C63.26:2015		
		ANSI C63.26:2015		
COMMENTS				
All losses in the measurement path were accounted for: attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power.				
DEVIATIONS FROM TEST STANDARD				
None				
Configuration #	2	Signature <i>Marty Martin</i>		
		PAPR Value (dB)	PAPR Limit < (dB)	Results
Port 1, LTE, Band 85, 728 MHz - 746 MHz				
5 MHz Bandwidth				
256-QAM Modulation				
	Low Ch. 730.5 MHz	8.23	13	Pass
	Mid Ch. 737 MHz	8.22	13	Pass
	High Ch. 743.5 MHz	8.21	13	Pass
10 MHz Bandwidth				
256-QAM Modulation				
	Low Ch. 733 MHz	8.08	13	Pass
	Mid Ch. 737 MHz	8.09	13	Pass
	High Ch. 741 MHz	8.11	13	Pass
15 MHz Bandwidth				
QPSK Modulation				
	Mid Ch. 737 MHz	7.23	13	Pass
16-QAM Modulation				
	Mid Ch. 737 MHz	7.23	13	Pass
64-QAM Modulation				
	Mid Ch. 737 MHz	7.23	13	Pass
256-QAM Modulation				
	Low Ch. 735.5 MHz	7.31	13	Pass
	Mid Ch. 737 MHz	7.24	13	Pass
	High Ch. 738.5 MHz	7.26	13	Pass

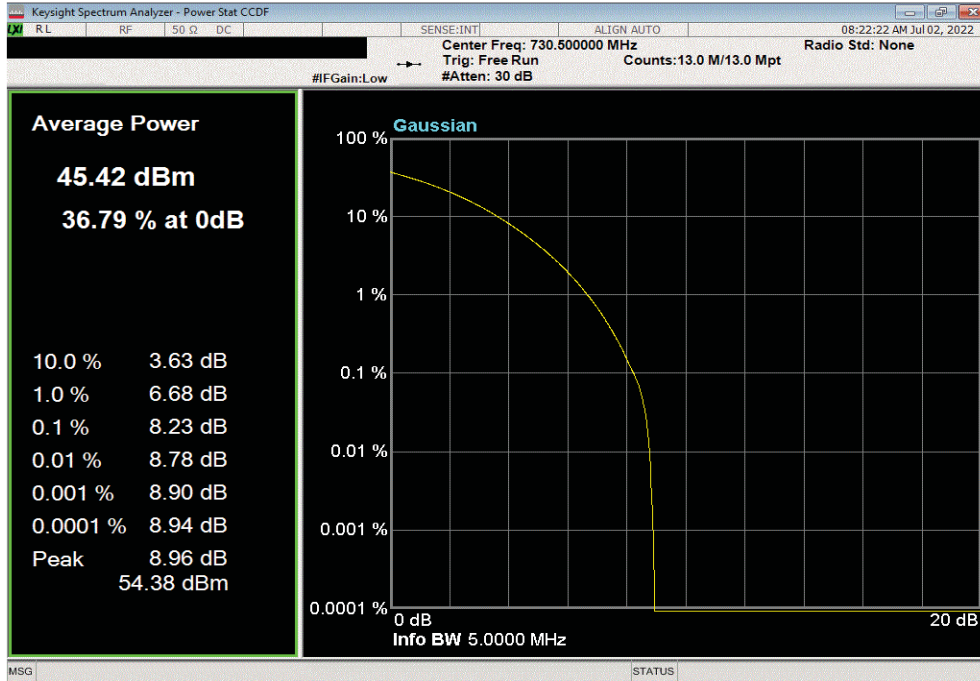


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 LTE

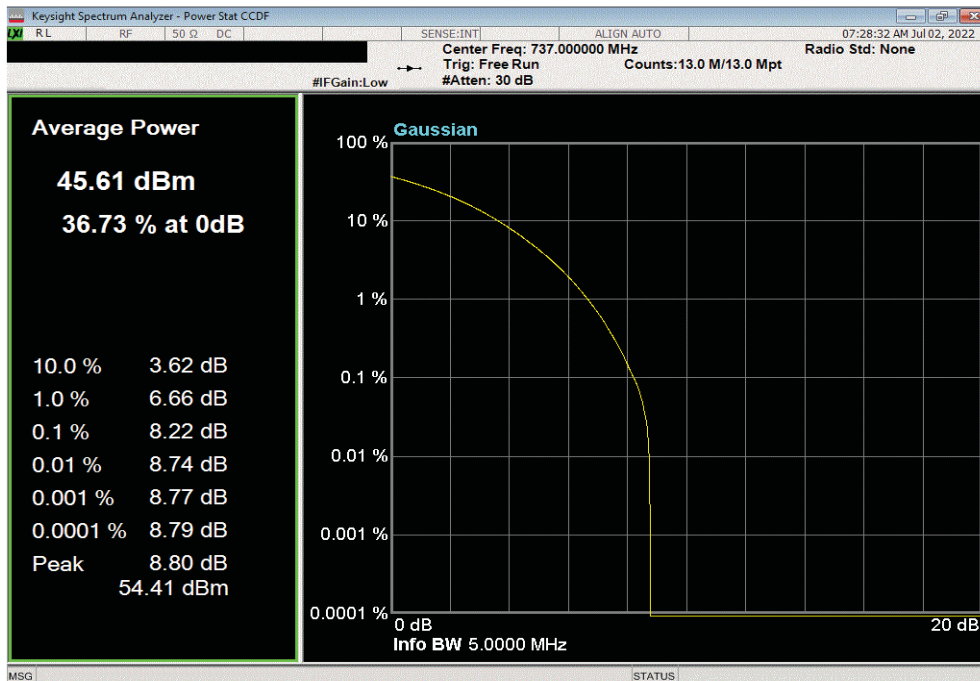


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 1, LTE, Band 85, 728 MHz - 746 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Ch. 730.5 MHz						
		PAPR Value	PAPR Limit	Results		
		(dB)	< (dB)			
		8.23	13	Pass		



Port 1, LTE, Band 85, 728 MHz - 746 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Ch. 737 MHz						
		PAPR Value	PAPR Limit	Results		
		(dB)	< (dB)			
		8.22	13	Pass		

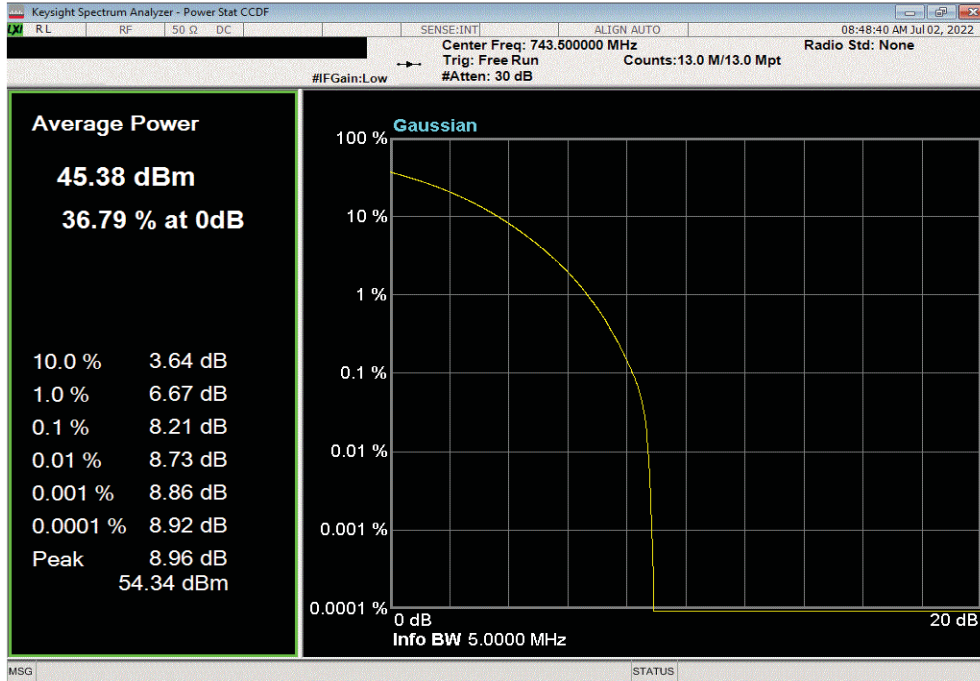


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 LTE

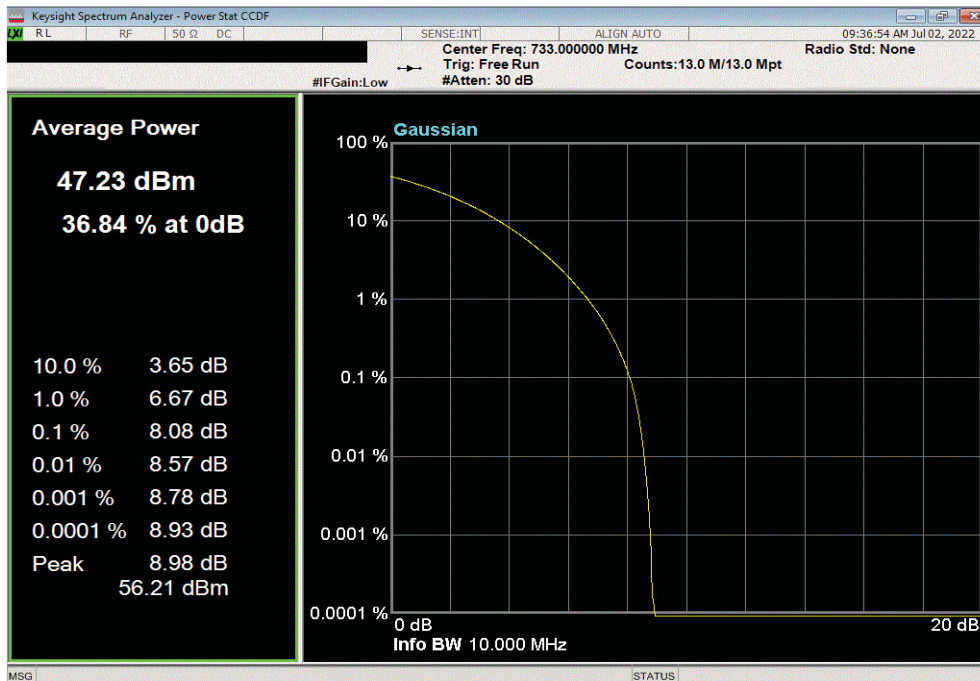


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 1, LTE, Band 85, 728 MHz - 746 MHz, 5 MHz Bandwidth, 256-QAM Modulation, High Ch. 743.5 MHz						
		PAPR Value	PAPR Limit	Results		
		(dB)	< (dB)			
		8.21	13	Pass		



Port 1, LTE, Band 85, 728 MHz - 746 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Ch. 733 MHz						
		PAPR Value	PAPR Limit	Results		
		(dB)	< (dB)			
		8.08	13	Pass		

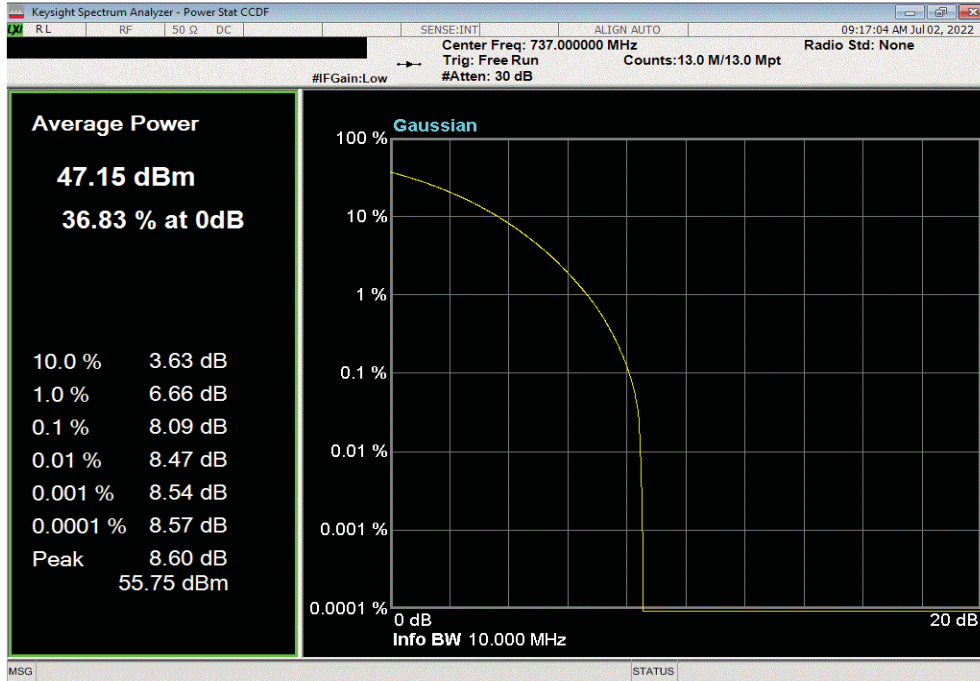


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 LTE

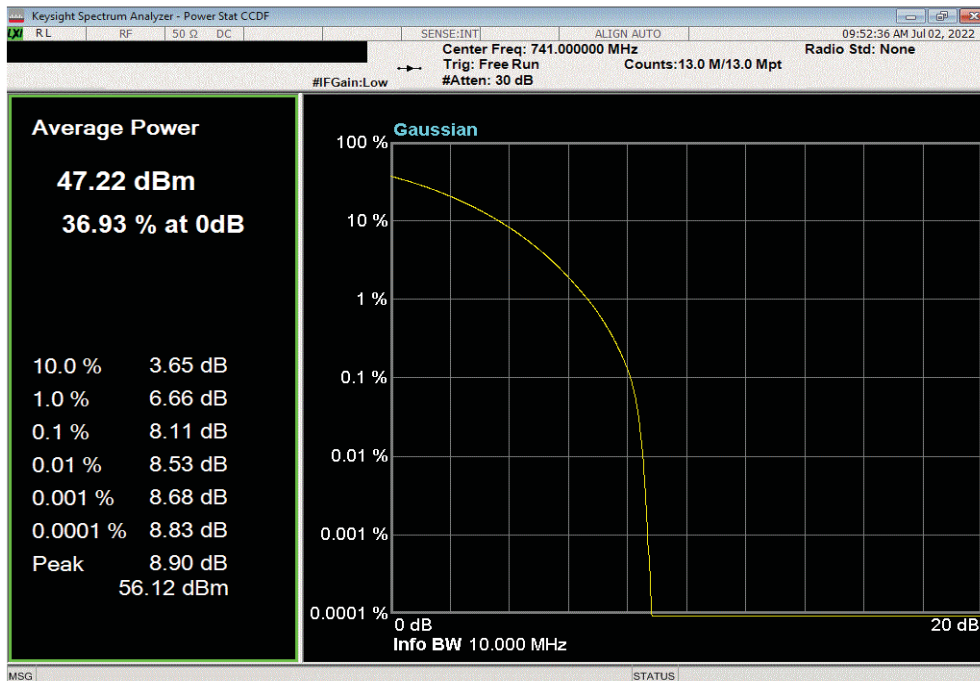


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 1, LTE, Band 85, 728 MHz - 746 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Ch. 737 MHz						
	PAPR Value	PAPR Limit	Results			
	(dB)	< (dB)				
	8.09	13	Pass			



Port 1, LTE, Band 85, 728 MHz - 746 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Ch. 741 MHz						
	PAPR Value	PAPR Limit	Results			
	(dB)	< (dB)				
	8.11	13	Pass			

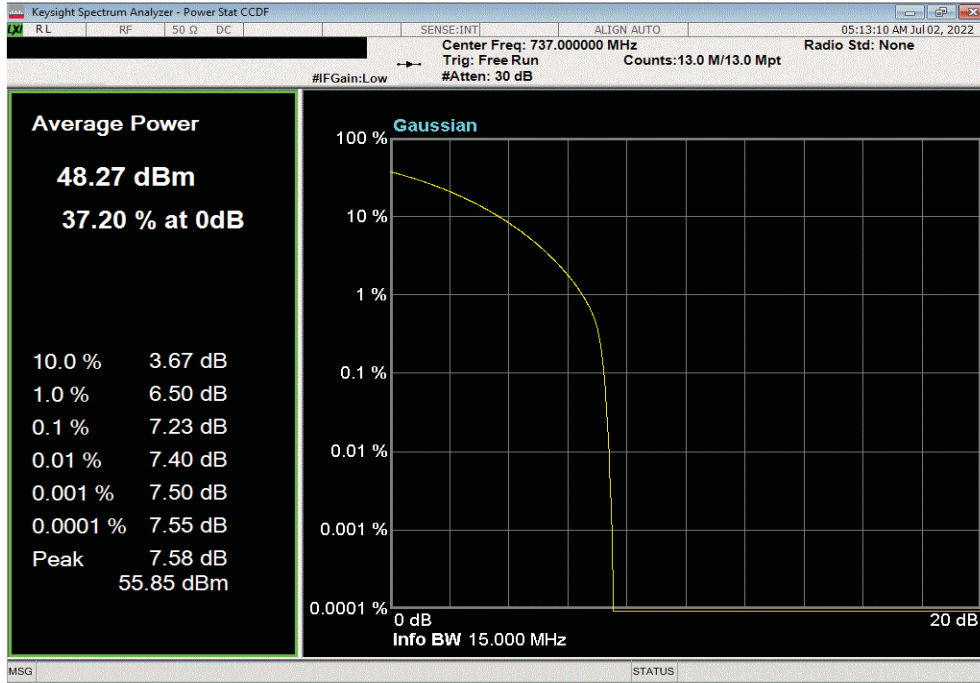


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 LTE

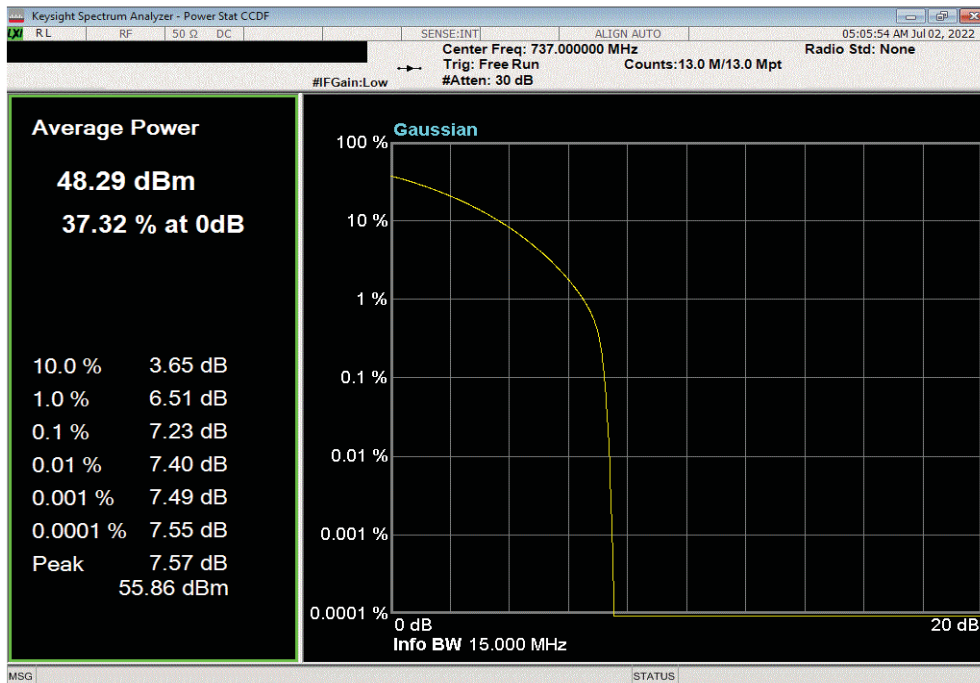


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 1, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, QPSK Modulation, Mid Ch. 737 MHz						
		PAPR Value	PAPR Limit			
		(dB)	< (dB)	Results		
		7.23	13	Pass		



Port 1, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Mid Ch. 737 MHz						
		PAPR Value	PAPR Limit			
		(dB)	< (dB)	Results		
		7.23	13	Pass		



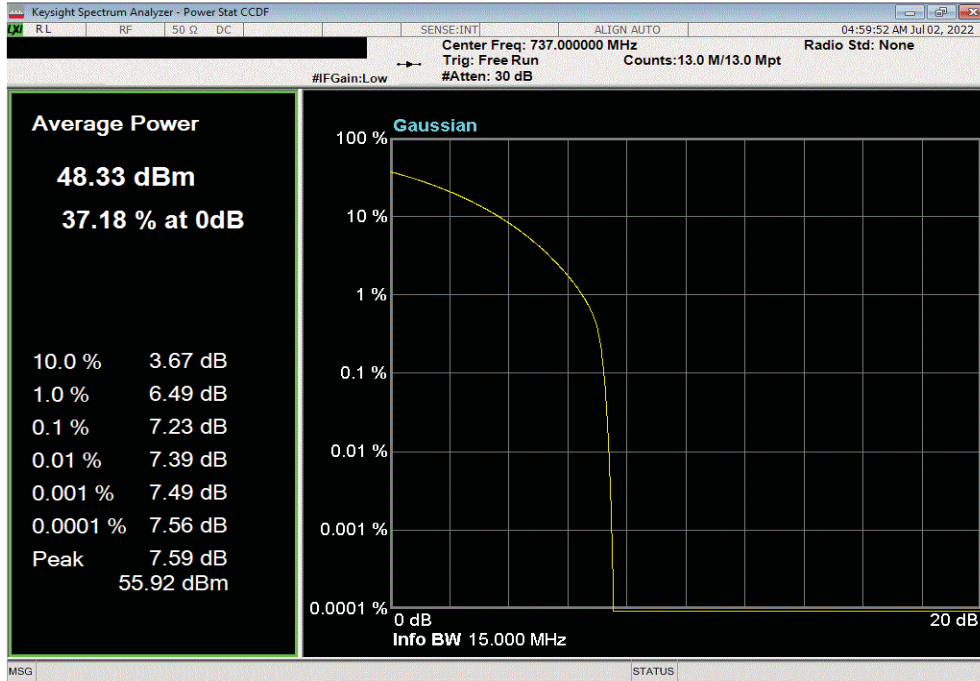


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 LTE

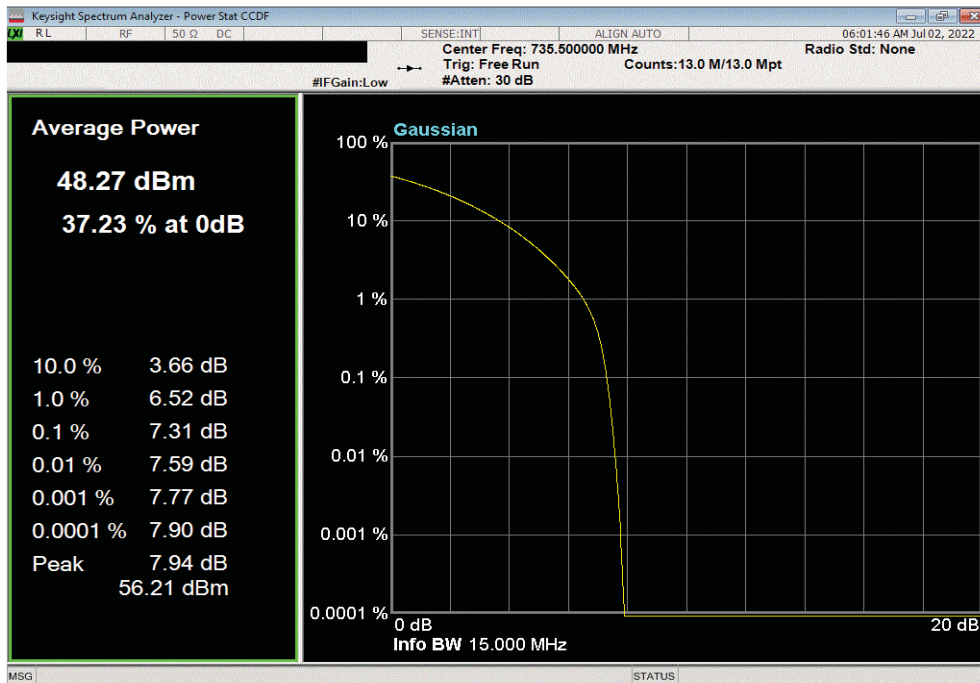


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 1, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Mid Ch. 737 MHz						
		PAPR Value	PAPR Limit			
		(dB)	< (dB)	Results		
		7.23	13	Pass		



Port 1, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Ch. 735.5 MHz						
		PAPR Value	PAPR Limit			
		(dB)	< (dB)	Results		
		7.31	13	Pass		



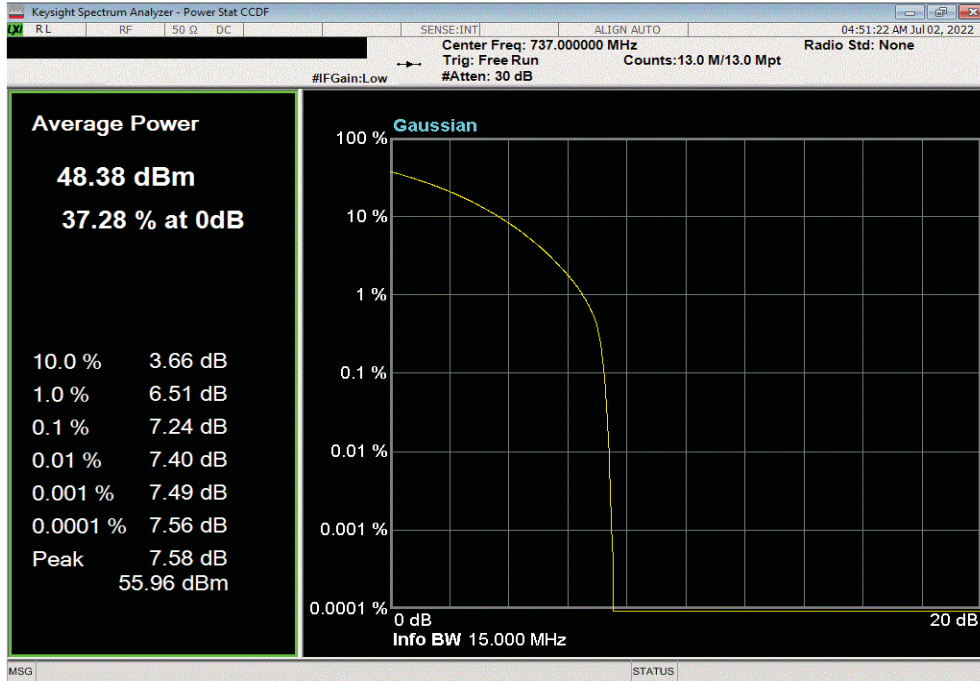


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 LTE

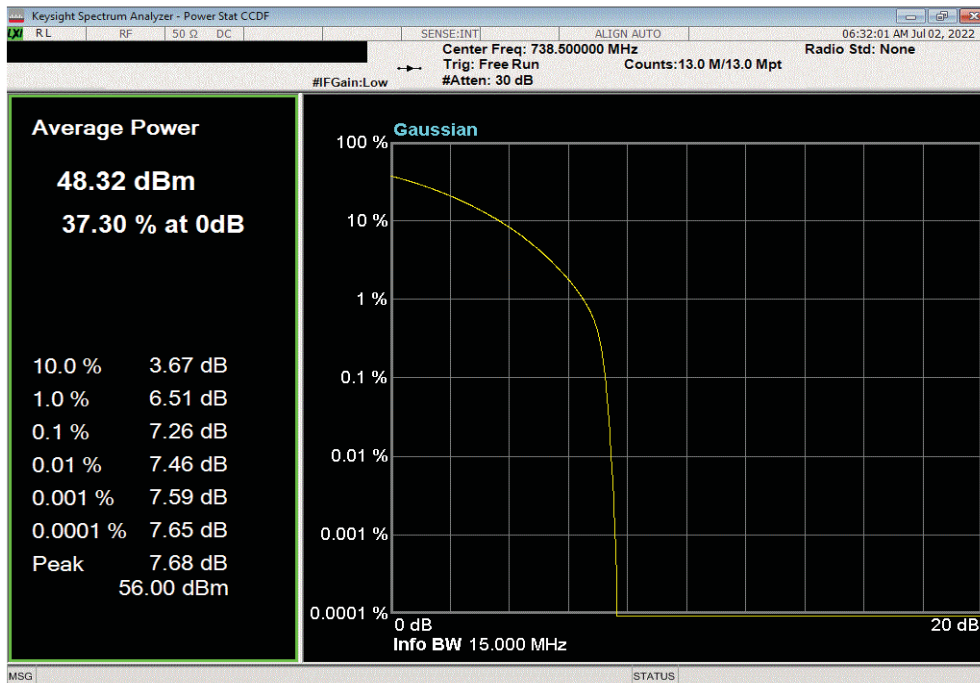


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 1, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Ch. 737 MHz						
PAPR Value		PAPR Limit		Results		
(dB)		< (dB)				
7.24		13		Pass		



Port 1, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Ch. 738.5 MHz						
PAPR Value		PAPR Limit		Results		
(dB)		< (dB)				
7.26		13		Pass		



# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 NB IoT GB



XMH 2022.02.07.0

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## TEST DESCRIPTION

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The PAPR measurement method is described in ANSI C63.26 section 5.2.3.4.  
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Per FCC part 27.50(d)(5) and RSS-130 section 4.6.1, the PAPR limit shall not exceed 13 dB for more than the ANSI described 0.1% of the time.

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# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 NB IoT GB



TelTx 2022.05.02.0 XMI: 2022.02.07.0

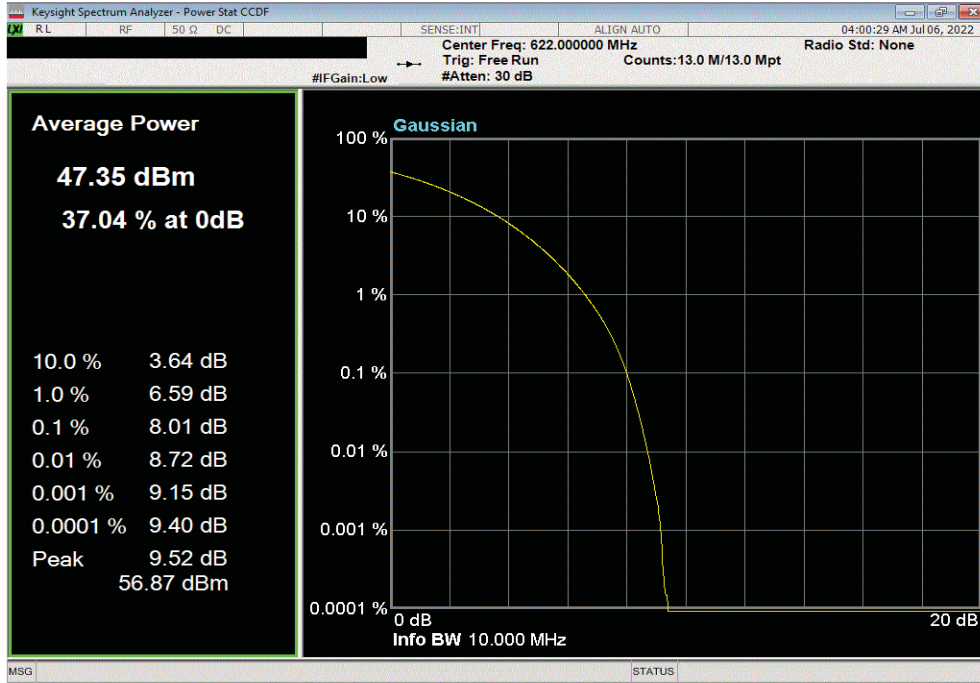
EUT: AHLOB		Work Order: NOKI0043	
Serial Number: YK220900029		Date: 13-Jul-22	
Customer: Nokia Solutions and Networks		Temperature: 20.9 °C	
Attendees: Mitchell Hill, John Rattanaovong		Humidity: 55.1% RH	
Project: None		Barometric Pres.: 1018 mbar	
Tested by: Marty Martin	Power: 54 VDC	Job Site: TX07	
TEST SPECIFICATIONS			
FCC 27:2022		Test Method	
RSS-130 Issue 2:2019		ANSI C63.26:2015	
COMMENTS			
All losses in the measurement path were accounted for: attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature <i>Marty Martin</i>	
		PAPR Value (dB)	PAPR Limit (dB) Results
Port 2, LTE, Band 71, 617 MHz - 652 MHz			
10 MHz Bandwidth			
NB IoT GB Modulation			
	Low Ch. 622 MHz	8.01	13 Pass
	Mid Ch. 634.5 MHz	7.99	13 Pass
	High Ch. 647 MHz	8	13 Pass
15 MHz Bandwidth			
NB IoT GB Modulation			
	Low Ch. 624.5 MHz	7.38	13 Pass
	Mid Ch. 634.5 MHz	6.86	13 Pass
	High Ch. 644.5 MHz	7.44	13 Pass
20 MHz Bandwidth			
NB IoT GB Modulation			
	Low Ch. 627 MHz	7.57	13 Pass
	Mid Ch. 634.5 MHz	7.12	13 Pass
	High Ch. 642 MHz	7.65	13 Pass

# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 NB IoT GB

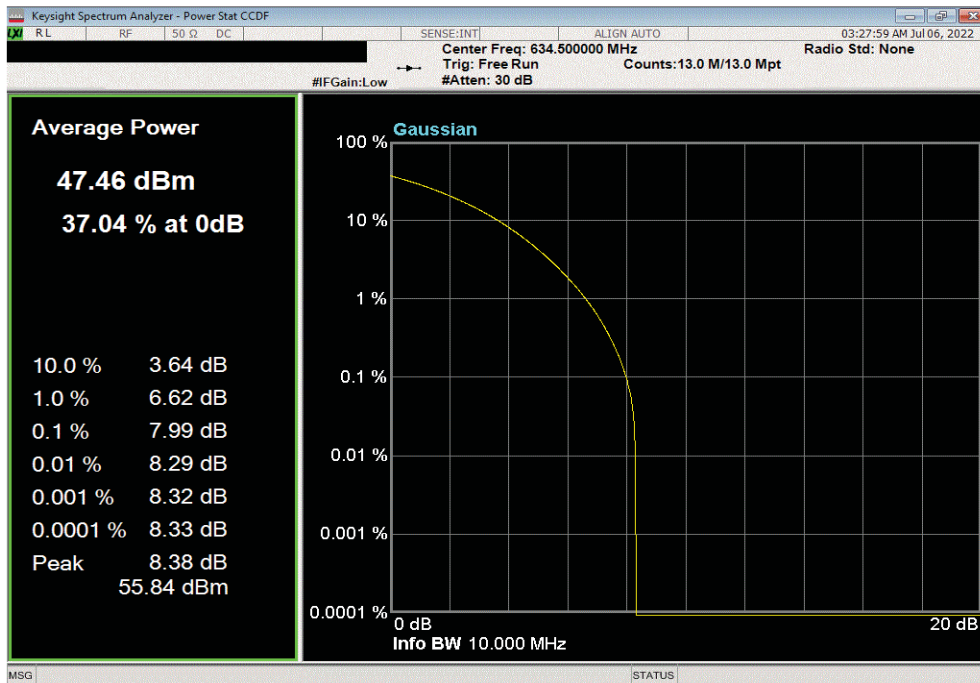


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, NB IoT GB Modulation, Low Ch. 622 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		8.01	13	Pass		



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, NB IoT GB Modulation, Mid Ch. 634.5 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.99	13	Pass		

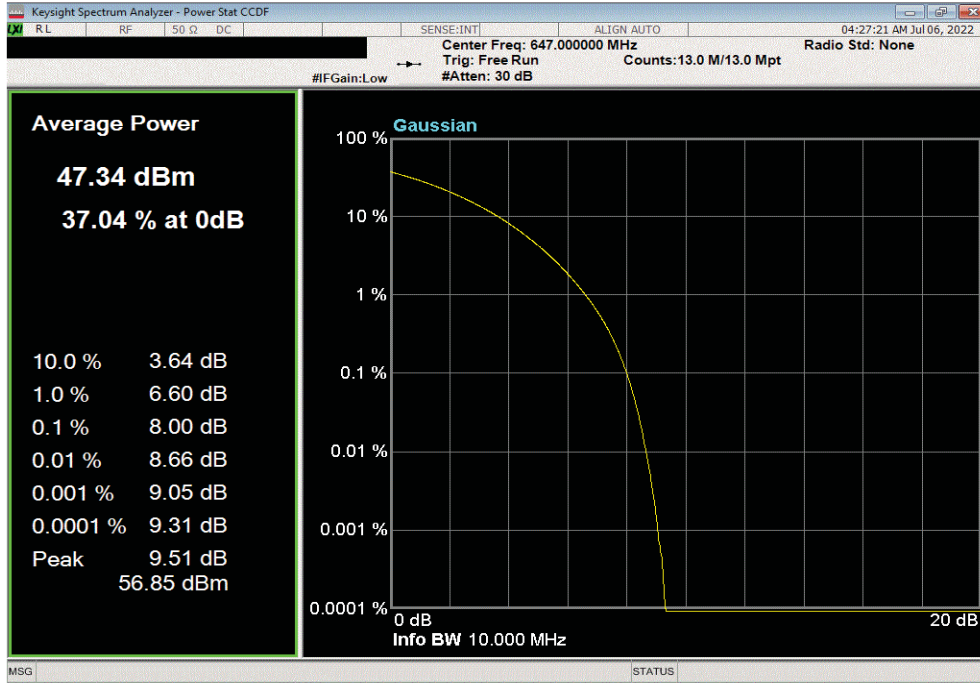


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 NB IoT GB

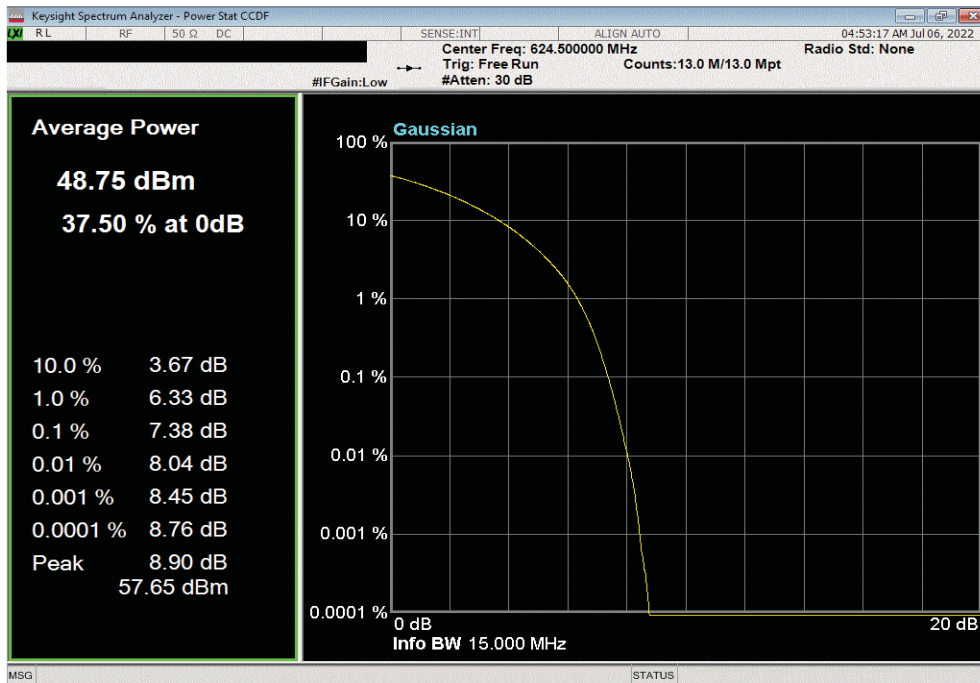


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, NB IoT GB Modulation, High Ch. 647 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		8	13	Pass		



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, NB IoT GB Modulation, Low Ch. 624.5 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.38	13	Pass		



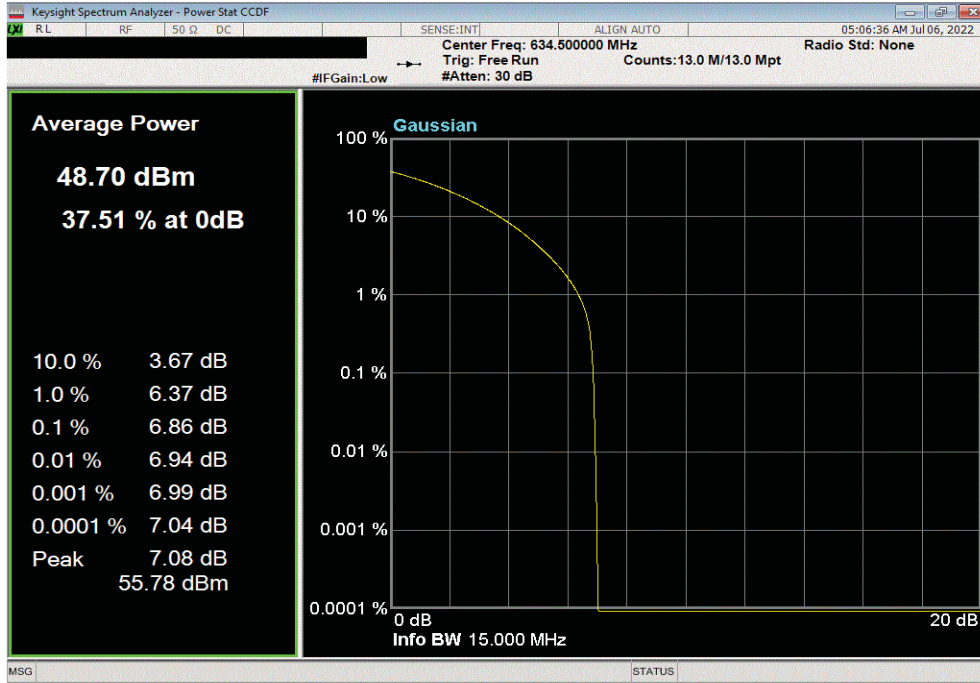


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 NB IoT GB

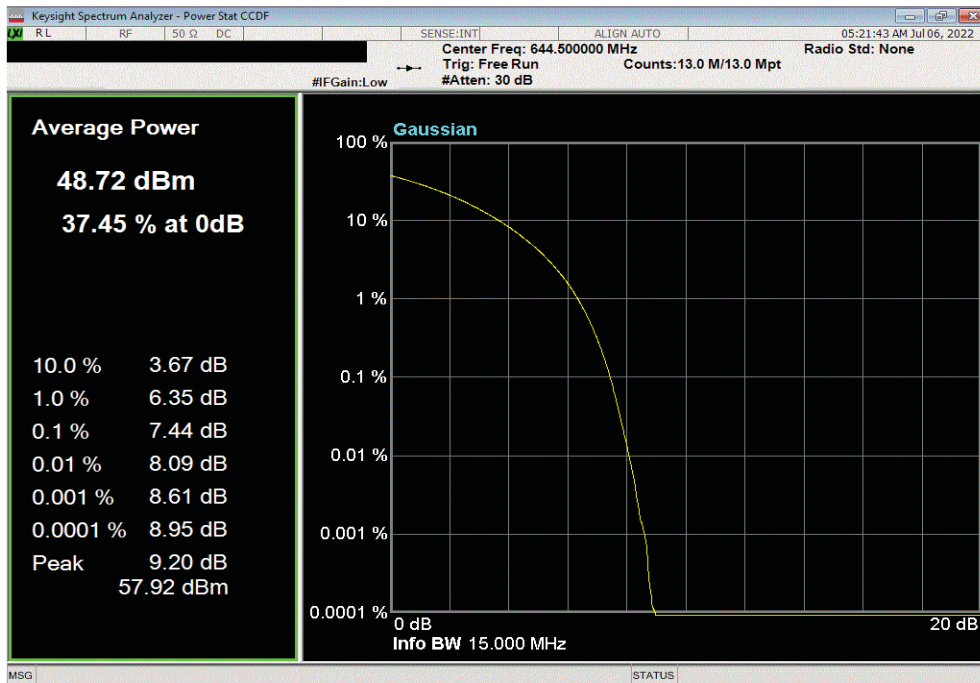


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, NB IoT GB Modulation, Mid Ch. 634.5 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	6.86	13	Pass			



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, NB IoT GB Modulation, High Ch. 644.5 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	7.44	13	Pass			

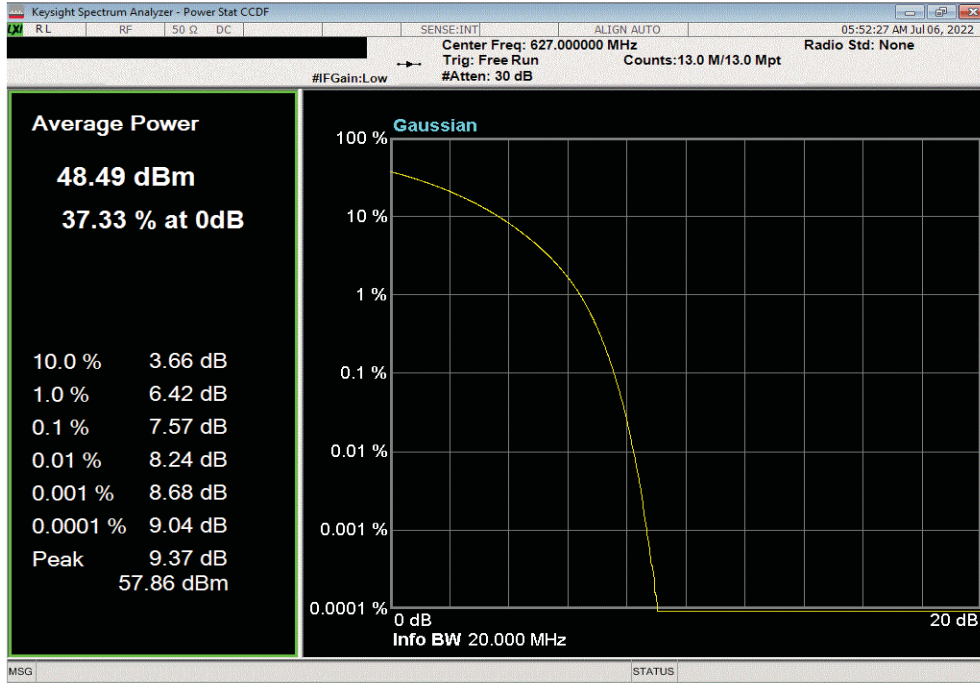


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 NB IoT GB

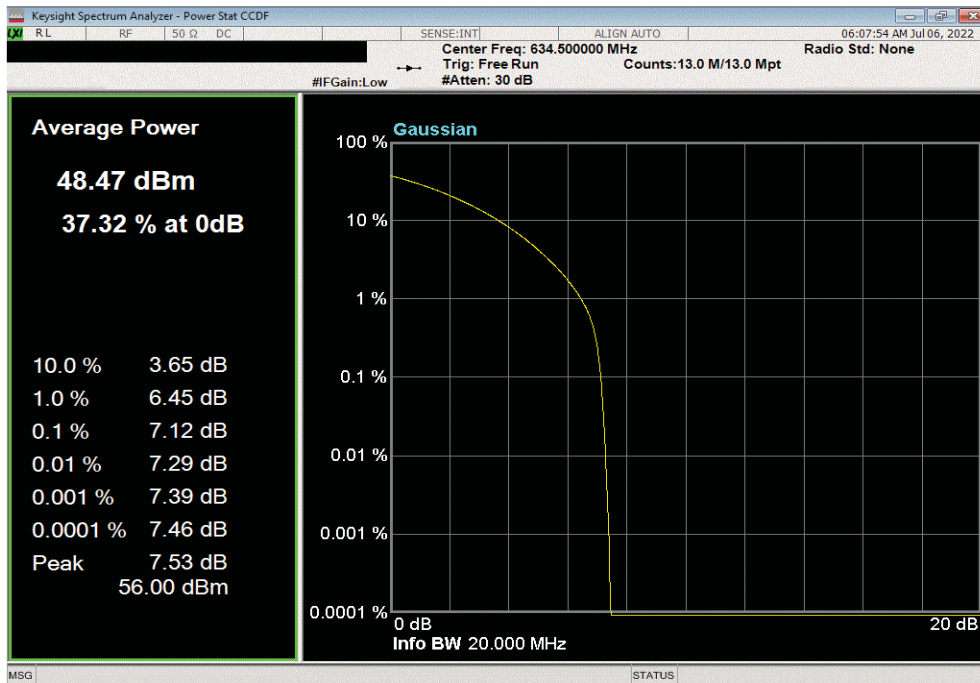


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, NB IoT GB Modulation, Low Ch. 627 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.57	13	Pass		



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, NB IoT GB Modulation, Mid Ch. 634.5 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.12	13	Pass		

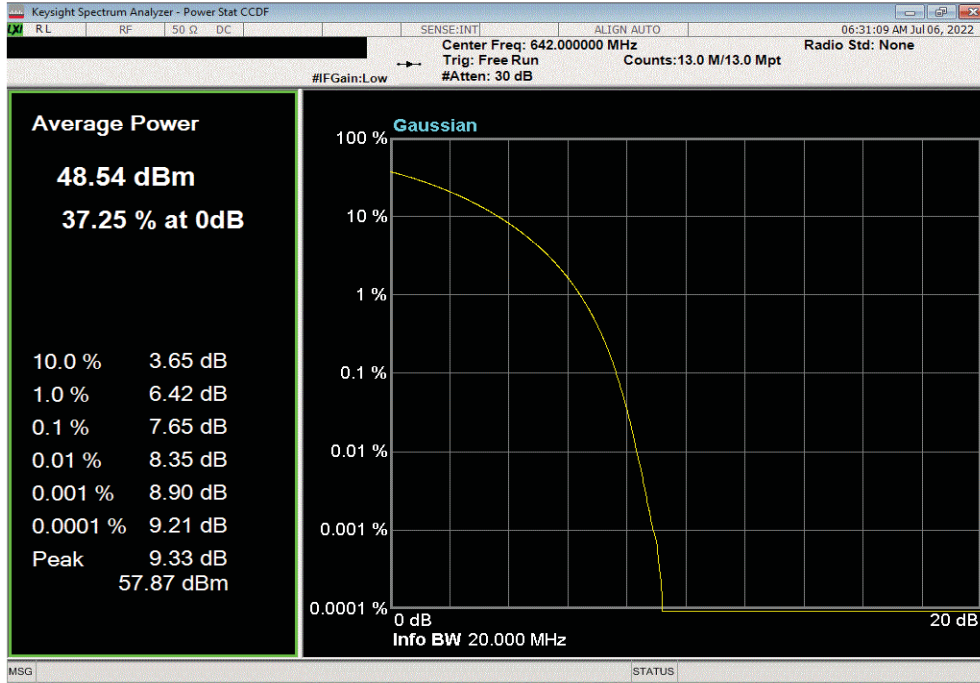


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 NB IoT GB



TbTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, NB IoT GB Modulation, High Ch. 642 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.65	13	Pass		



# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 NB IoT GB



XMH 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3239	ANE	2022-03-02	2023-03-02
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

Because the conducted Output Power was measured using a RMS Average detector, the Peak to Average Power Ratio (PAPR) was measured to show that the maximum peak-max-hold spectrum to the maximum of the average spectrum does not exceed the rule part defined limit.

The PAPR measurement method is described in ANSI C63.26 section 5.2.3.4.  
The PAPR was measured using the CCDF function of the spectrum analyzer.

Per FCC part 27.50(d)(5) and RSS-130 section 4.6.1, the PAPR limit shall not exceed 13 dB for more than the ANSI described 0.1% of the time.

RF conducted emissions testing was performed only on one port. The AHLOB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 NB IoT GB



Tel: 2022.05.02.0 XM: 2022.02.07.0

EUT: AHLOB		Work Order: NOKI0043	
Serial Number: YK220900029		Date: 13-Jul-22	
Customer: Nokia Solutions and Networks		Temperature: 21 °C	
Attendees: Mitchell Hill, John Rattavong		Humidity: 54.1% RH	
Project: None		Barometric Pres.: 1018 mbar	
Tested by: Marty Martin	Power: 54 VDC	Job Site: TX07	
TEST SPECIFICATIONS			
FCC 27:2022		Test Method	
RSS-130 Issue 2:2019		ANSI C63.26:2015	
		ANSI C63.26:2015	
COMMENTS			
All losses in the measurement path were accounted for: attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature <i>Marty Martin</i>	
		PAPR Value (dB)	PAPR Limit (dB) Results
Port 2, LTE, Band 85, 728 MHz - 746 MHz			
10MHz Bandwidth			
NB IoT GB			
	Low Ch. 733 MHz	8.05	13 Pass
	Mid Ch. 737 MHz	7.97	13 Pass
	High Ch. 741 MHz	7.95	13 Pass
Port 2, LTE, Band 85, 728 MHz - 746 MHz			
15MHz Bandwidth			
NB IoT GB			
	Low Ch. 735.5 MHz	7.02	13 Pass
	Mid Ch. 737 MHz	6.92	13 Pass
	High Ch. 738.5 MHz	6.97	13 Pass

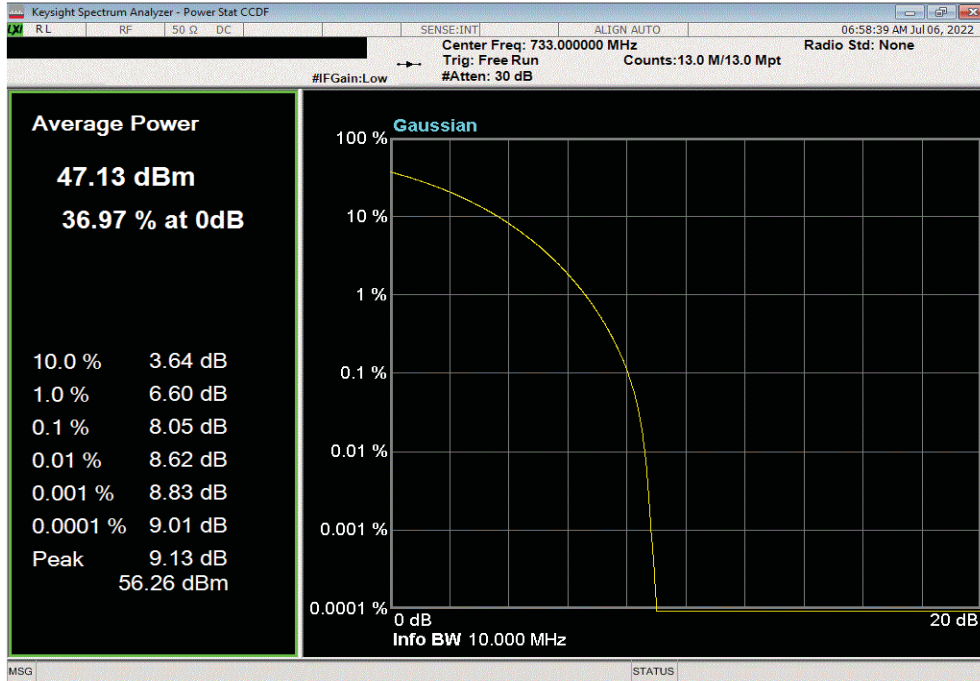


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 NB IoT GB

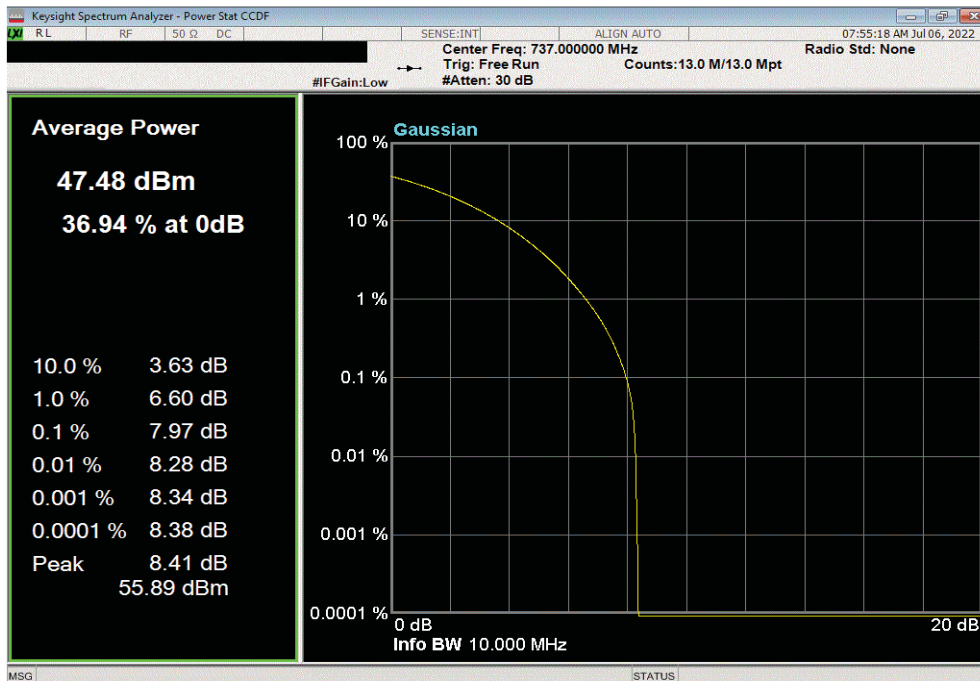


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 85, 728 MHz - 746 MHz, 10MHz Bandwidth,NB IoT GB, Low Ch. 733 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	8.05	13	Pass			



Port 2, LTE, Band 85, 728 MHz - 746 MHz, 10MHz Bandwidth,NB IoT GB, Mid Ch. 737 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	7.97	13	Pass			

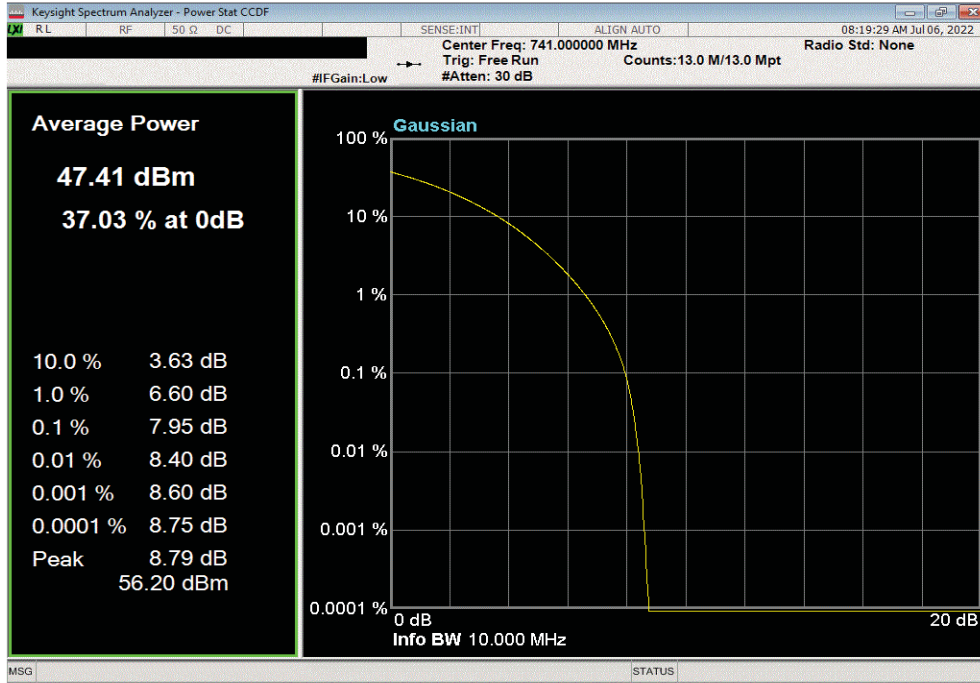


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 NB IoT GB



TbTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 85, 728 MHz - 746 MHz, 10MHz Bandwidth,NB IoT GB, High Ch. 741 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.95	13	Pass		

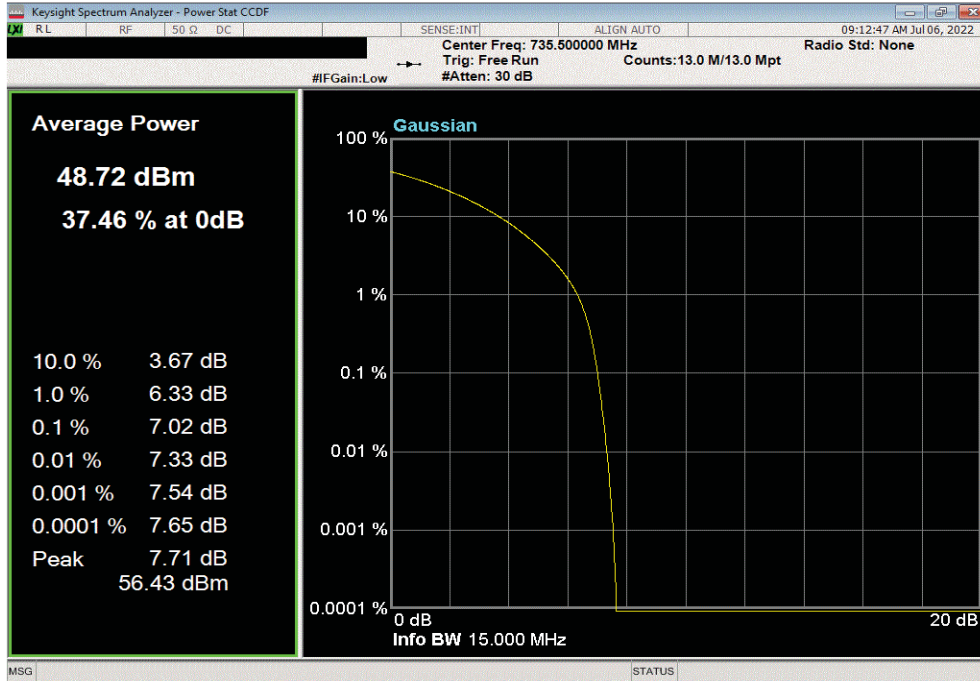


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 NB IoT GB

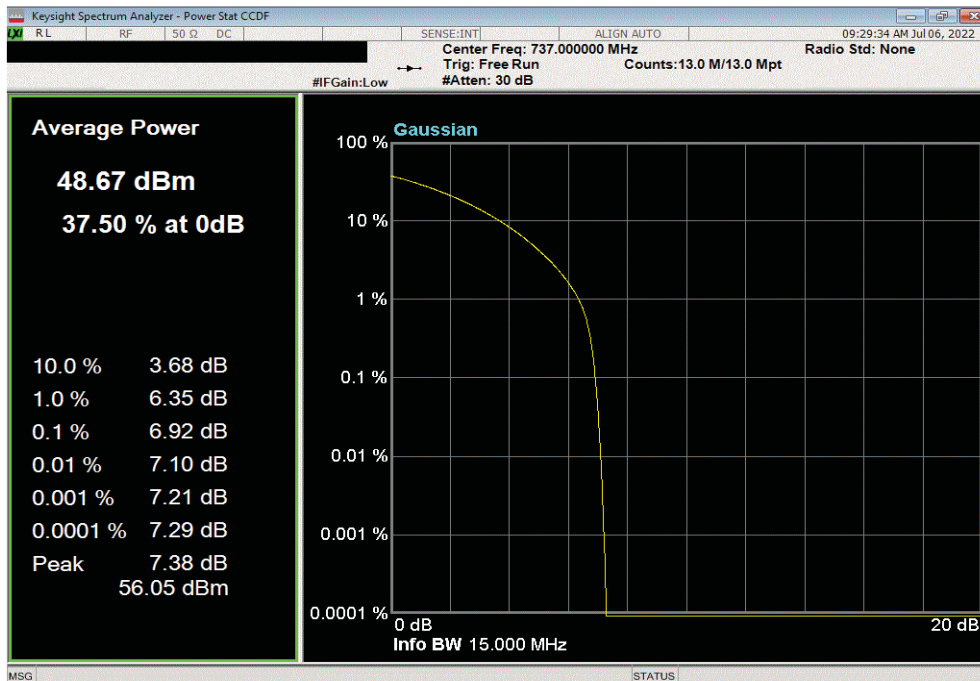


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, NB IoT GB, Low Ch. 735.5 MHz						
	Value	Limit	Results			
	(dB)	< (dB)				
	7.02	13	Pass			



Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, NB IoT GB, Mid Ch. 737 MHz						
	Value	Limit	Results			
	(dB)	< (dB)				
	6.92	13	Pass			

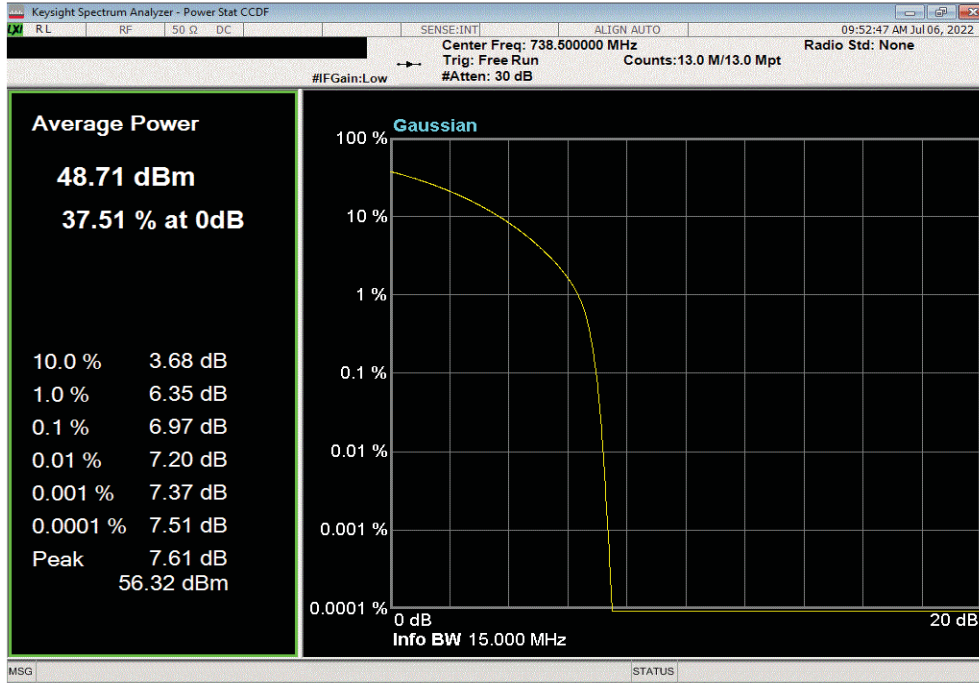


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 NB IoT GB



TbTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, NB IoT GB, High Ch. 738.5 MHz			
	Value (dB)	Limit < (dB)	Results
	6.97	13	Pass



# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 NB IoT SA



XMH 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3239	ANE	2022-03-02	2023-03-02
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

Because the conducted Output Power was measured using a RMS Average detector, the Peak to Average Power Ratio (PAPR) was measured to show that the maximum peak-max-hold spectrum to the maximum of the average spectrum does not exceed the rule part defined limit.

The PAPR measurement method is described in ANSI C63.26 section 5.2.3.4.  
The PAPR was measured using the CCDF function of the spectrum analyzer.

Per FCC part 27.50(d)(5) and RSS-130 section 4.6.1, the PAPR limit shall not exceed 13 dB for more than the ANSI described 0.1% of the time.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHLOB) as the original certification test. The AHLOB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 NB IoT SA



TelTx 2022.05.02.0 XMI: 2022.02.07.0

EUT: AHLOB		Work Order: NOKI0043	
Serial Number: YK220900029		Date: 11-Jul-22	
Customer: Nokia Solutions and Networks		Temperature: 21.4 °C	
Attendees: Mitchell Hill, John Rattanavong		Humidity: 53.6% RH	
Project: None		Barometric Pres.: 1013 mbar	
Tested by: Marty Martin	Power: 54 VDC	Job Site: TX07	
TEST SPECIFICATIONS			
FCC 27:2022		Test Method	
RSS-130 Issue 2:2019		ANSI C63.26:2015	
		ANSI C63.26:2015	
COMMENTS			
All losses in the measurement path were accounted for: attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature <i>Marty Martin</i>	
		PAPR Value (dB)	PAPR Limit (dB) Results
Port 2, LTE, Band 71, 617 MHz - 652 MHz			
200 kHz Bandwidth			
Standalone NB IoT			
	Low Ch. 617.2 MHz	7.12	13 Pass
	Mid Ch. 634.5 MHz	7.67	13 Pass
	High Ch. 651.8 MHz	7.11	13 Pass

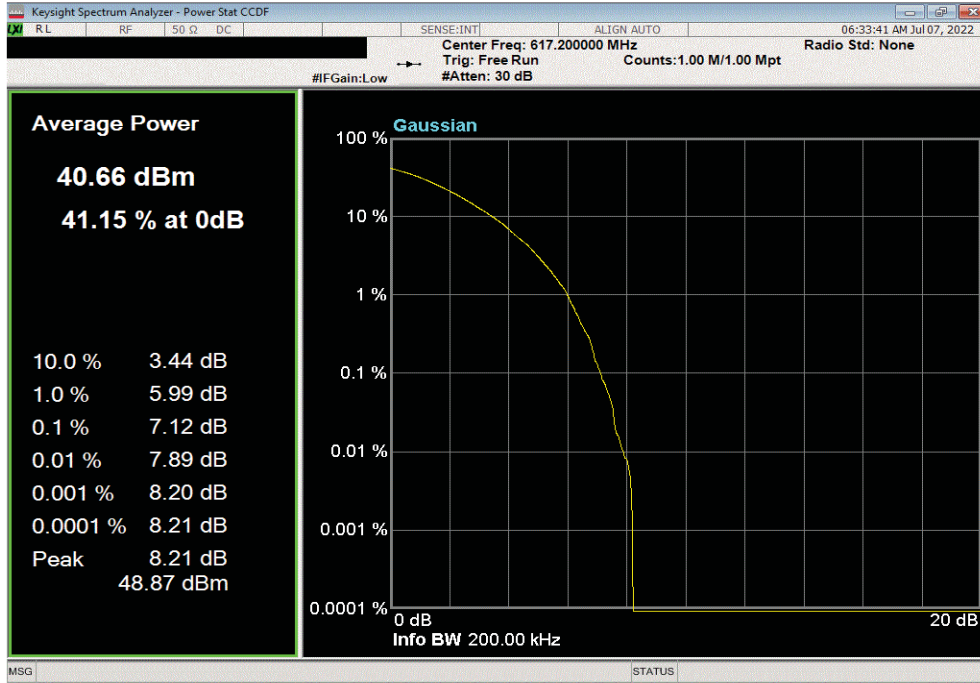


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 NB IoT SA

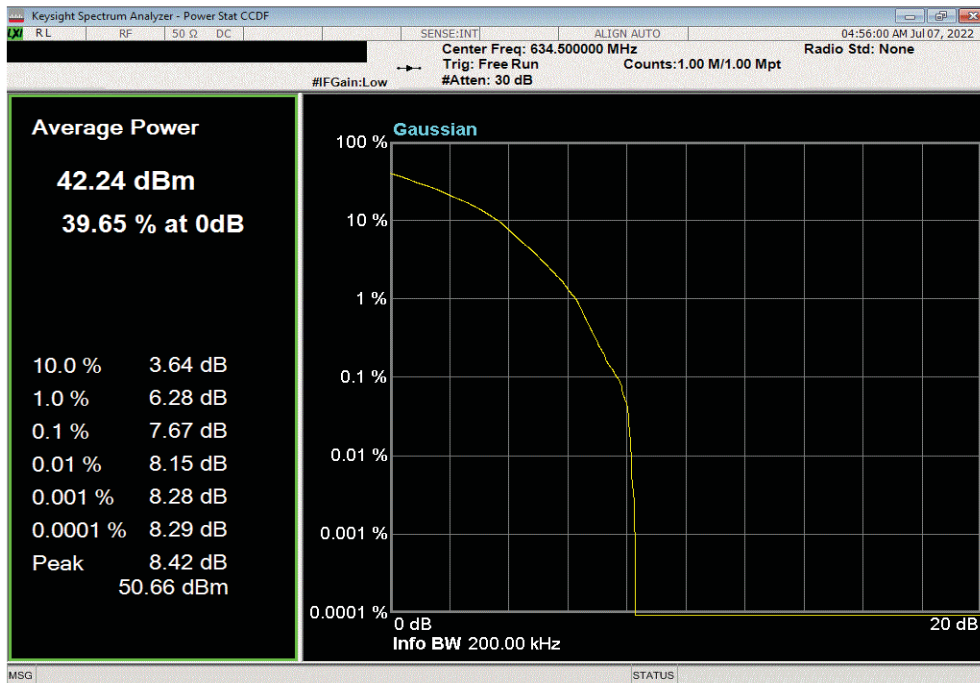


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 200 kHz Bandwidth, Standalone NB IoT, Low Ch. 617.2 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	7.12	13	Pass			



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 200 kHz Bandwidth, Standalone NB IoT, Mid Ch. 634.5 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	7.67	13	Pass			

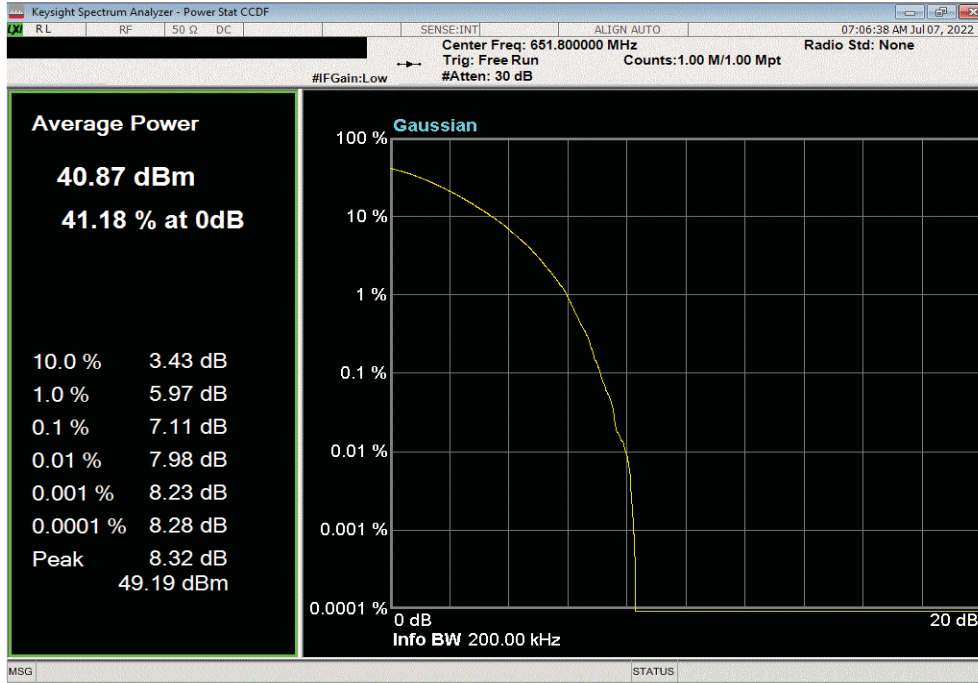


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 71 NB IoT SA



TbTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 200 kHz Bandwidth, Standalone NB IoT, High Ch. 651.8 MHz			
	PAPR Value (dB)	PAPR Limit (dB)	Results
	7.11	13	Pass



# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 NB IoT SA



XMH 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3239	ANE	2022-03-02	2023-03-02
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

Because the conducted Output Power was measured using a RMS Average detector, the Peak to Average Power Ratio (PAPR) was measured to show that the maximum peak-max-hold spectrum to the maximum of the average spectrum does not exceed the rule part defined limit.

The PAPR measurement method is described in ANSI C63.26 section 5.2.3.4.  
The PAPR was measured using the CCDF function of the spectrum analyzer.

Per FCC part 27.50(d)(5) and RSS-130 section 4.6.1, the PAPR limit shall not exceed 13 dB for more than the ANSI described 0.1% of the time.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHLOB) as the original certification test. The AHLOB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in this certification testing) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 NB IoT SA



TelTx 2022.05.02.0 XMI: 2022.02.07.0

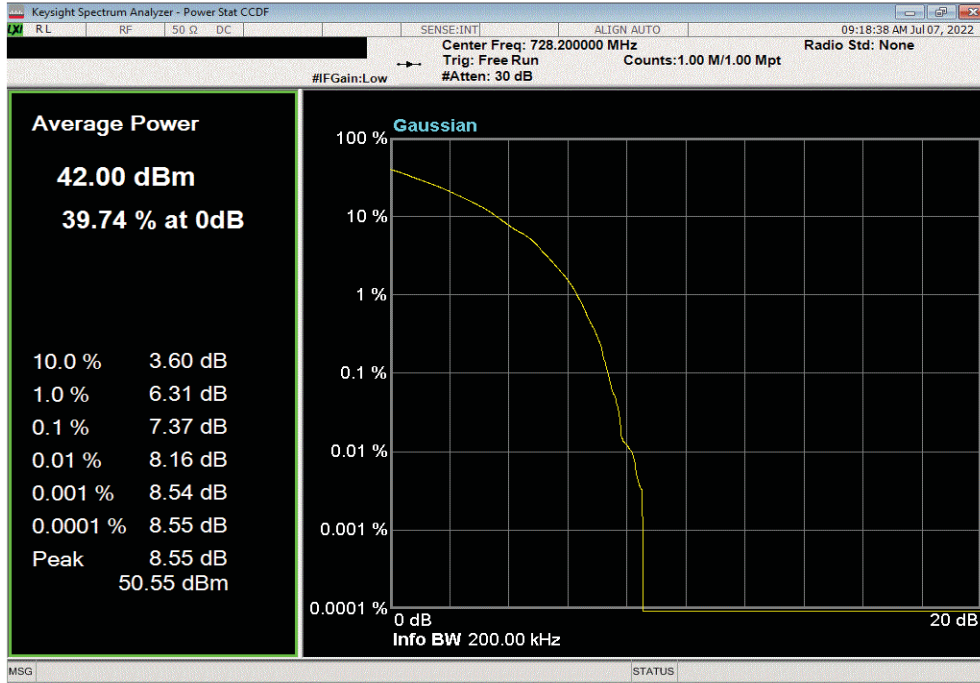
EUT: AHLOB		Work Order: NOKI0043	
Serial Number: YK220900029		Date: 13-Jul-22	
Customer: Nokia Solutions and Networks		Temperature: 21 °C	
Attendees: Mitchell Hill, John Rattanavong		Humidity: 53.2% RH	
Project: None		Barometric Pres.: 1016 mbar	
Tested by: Marty Martin	Power: 54 VDC	Job Site: TX07	
<b>TEST SPECIFICATIONS</b>			
FCC 27:2022		Test Method	
RSS-130 Issue 2:2019		ANSI C63.26:2015	
		ANSI C63.26:2015	
<b>COMMENTS</b>			
All losses in the measurement path were accounted for: attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power.			
<b>DEVIATIONS FROM TEST STANDARD</b>			
None			
Configuration #	2	Signature <i>Marty Martin</i>	
		PAPR Value (dB)	PAPR Limit (dB) Results
Port 2, LTE, Band 85, 728 MHz - 746 MHz			
200 kHz Bandwidth			
Standalone NB IoT			
	Low Ch. 728.2 MHz	7.37	13 Pass
	Mid Ch. 737 MHz	7.41	13 Pass
	High Ch. 745.8 MHz	7.4	13 Pass

# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 NB IoT SA

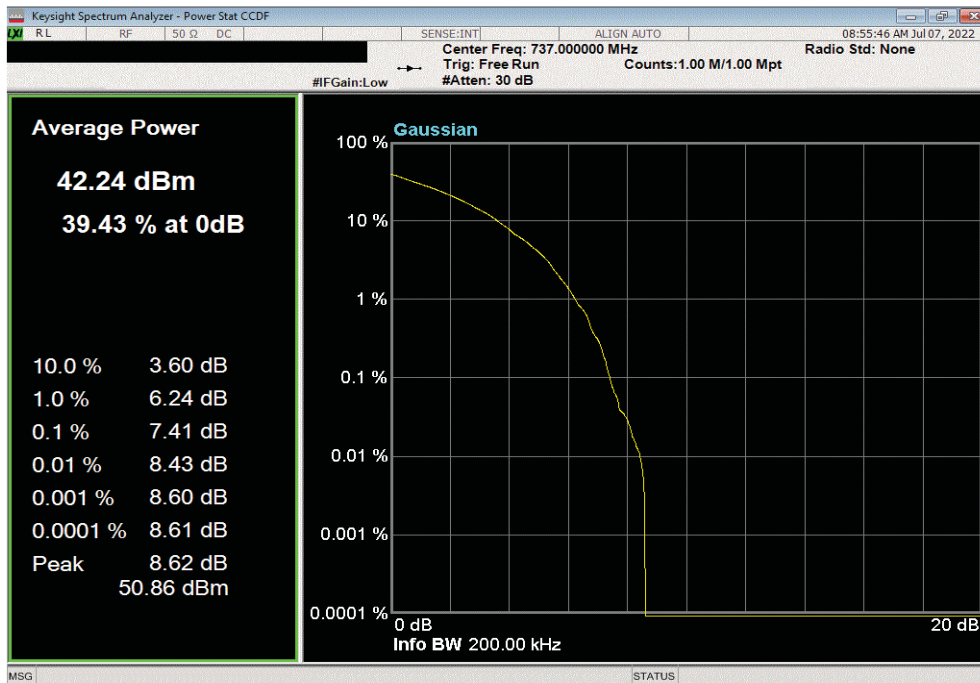


TotTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 85, 728 MHz - 746 MHz, 200 kHz Bandwidth, Standalone NB IoT, Low Ch. 728.2 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	7.37	13	Pass			



Port 2, LTE, Band 85, 728 MHz - 746 MHz, 200 kHz Bandwidth, Standalone NB IoT, Mid Ch. 737 MHz						
	PAPR Value (dB)	PAPR Limit (dB)	Results			
	7.41	13	Pass			

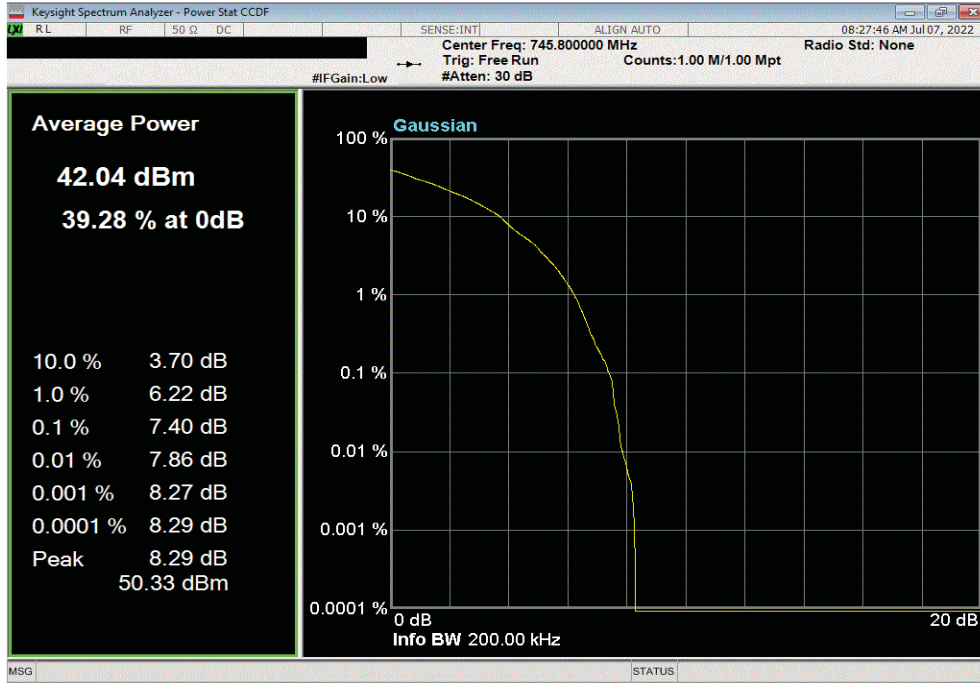


# PEAK TO AVERAGE POWER (PAPR) CCDF - Band 85 NB IoT SA



TbTx 2022.05.02.0 XMit 2022.02.07.0

Port 2, LTE, Band 85, 728 MHz - 746 MHz, 200 kHz Bandwidth, Standalone NB IoT, High Ch. 745.8 MHz						
		PAPR Value (dB)	PAPR Limit (dB)	Results		
		7.4	13	Pass		





# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE



XMH 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3239	ANE	2022-03-02	2023-03-02
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The fundamental emission power spectral density was measured using the channels and modes as called out on the following data sheets.

The method of ANSI C63.26-2015 section 5.2.4.5 was used to make this measurement.

The RF conducted emission testing was performed on one port. The AHLOB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the "Output Power - All Ports" report section) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

The total PSD for all antenna ports (at the radio output) were determined per ANSI C63.26-2015 paragraph 6.4.3.2.4. The EIRP calculations are based upon ANSI C63.26-2015 paragraphs 6.4 for a four port MIMO base station.

### FCC Requirements:

FCC 27.50(c) (3) Fixed and base stations transmitting a signal with an emission bandwidth greater than 1 MHz must not exceed an ERP of 1000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts/MHz ERP in accordance with Table 3 of this section; FCC 27.50(c) (4) Fixed and base stations located in a county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, and transmitting a signal with an emission bandwidth greater than 1 MHz must not exceed an ERP of 2000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 2000 watts/MHz ERP in accordance with Table 4 of this section;

Note: EIRP = ERP + 2.15dB

1000 watts = 60.00 dBm, EIRP = (60 dBm + 2.15dB) /MHz = 62.15dBm/MHz or 1640W/MHz

2000 watts = 63.01 dBm, EIRP = (63 dBm + 2.15dB) /MHz = 65.16dBm/MHz or 3280W/MHz

### ISED Requirements RSS-130 Section 4.6/SRSP-518 section 5.1:

#### SRSP-518 section 5.1 Radiated power and antenna height limits for fixed and base stations

21. For fixed and base stations transmitting in accordance with section 4, the maximum permissible equivalent isotropically radiated power (e.i.r.p.) is 1640 watts and 1640 watts/MHz for a channel bandwidth less than or equal to 1 MHz and greater than 1 MHz, respectively. These e.i.r.p. limits apply for stations with an antenna height above average terrain (HAAT) up to 305 metres.

22. Fixed and base stations located in geographical areas at a distance greater than 26 km from large or medium population centres and transmitting in accordance with section 4, may increase their e.i.r.p. up to a maximum of 3280 watts/MHz (i.e. no more than 3280 watts e.i.r.p. in any 1 MHz band segment), with an antenna HAAT up to 305 metres.

# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE



TstTx 2022.05.02.0 XMI 2022.02.07.0

EUT: AHLOB	Work Order: NOKI0043
Serial Number: YK220900029	Date: 11-Jul-22
Customer: Nokia Solutions and Networks	Temperature: 20.9 °C
Attendees: Mitchell Hill, John Rattanavong	Humidity: 57.2% RH
Project: None	Barometric Pres.: 1015 mbar
Tested by: Marty Martin	Power: 54 VDC
	Job Site: TX07

TEST SPECIFICATIONS		Test Method
FCC 27:2022	ANSI C63.26:2015	
RSS-130 Issue 2:2019	ANSI C63.26:2015	

**COMMENTS**  
 All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The PSD was measured while transmitting one carrier on Port 2. The total PSD for multiport (2x2, 4x4 MIMO) operation was determined based upon ANSI 63.26 clause 6.4.3.2.4 (10 Log Nout). The total PSD for two port operation is single port PSD +3dB [i.e. 10 Log(2)]. The total PSD for four port operation is single port PSD +6dB [i.e. 10 Log(4)]. The carriers are enabled at maximum power.

**DEVIATIONS FROM TEST STANDARD**  
 None

Configuration #	2	Signature <i>Marty Martin</i>
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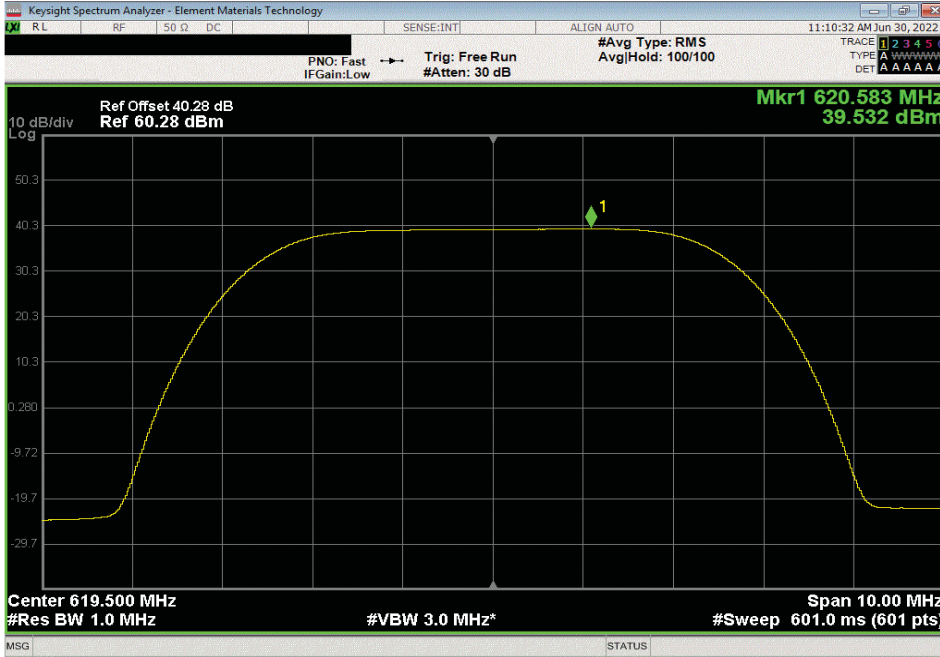
Port 2, LTE, Band 71, 617 MHz - 652 MHz	Value dBm/MHz	Duty Cycle factor (dB)	Single Port dBm/MHz == PSD	Two Port (2x2 MIMO) dBm/MHz == PSD	Two Port (4x4 MIMO) dBm/MHz == PSD
<b>5 MHz Bandwidth</b>					
QPSK Modulation					
Low Ch. 619.5 MHz	39.532	0	39.5	42.5	45.2
Mid Ch. 634.5 MHz	39.454	0	39.5	42.5	45.2
High Ch. 649.5 MHz	39.713	0	39.7	42.7	45.7
16-QAM Modulation					
Low Ch. 619.5 MHz	39.85	0	39.9	42.9	45.9
Mid Ch. 634.5 MHz	39.845	0	39.8	42.8	45.9
High Ch. 649.5 MHz	39.896	0	39.9	42.9	45.9
64-QAM Modulation					
Low Ch. 619.5 MHz	39.409	0	39.4	42.4	45.4
Mid Ch. 634.5 MHz	39.26	0	39.3	42.3	45.3
High Ch. 649.5 MHz	39.532	0	39.5	42.5	45.5
256-QAM Modulation					
Low Ch. 619.5 MHz	39.351	0	39.4	42.4	45.4
Mid Ch. 634.5 MHz	39.2	0	39.2	42.2	45.2
High Ch. 649.5 MHz	39.305	0	39.3	42.3	45.3
<b>10 MHz Bandwidth</b>					
QPSK Modulation					
Mid Ch. 634.5 MHz	38.325	0	38.3	41.3	44.3
16-QAM Modulation					
Mid Ch. 634.5 MHz	38.614	0	38.6	41.6	44.6
64-QAM Modulation					
Mid Ch. 634.5 MHz	38.141	0	38.1	41.1	44.1
256-QAM Modulation					
Mid Ch. 634.5 MHz	38.092	0	38.1	41.1	44.1
<b>15 MHz Bandwidth</b>					
QPSK Modulation					
Mid Ch. 634.5 MHz	37.356	0	37.4	40.4	43.4
16-QAM Modulation					
Mid Ch. 634.5 MHz	38.457	0	38.5	41.5	44.5
64-QAM Modulation					
Mid Ch. 634.5 MHz	37.351	0	37.4	40.4	43.4
256-QAM Modulation					
Mid Ch. 634.5 MHz	37.376	0	37.4	40.4	43.4
<b>20 MHz Bandwidth</b>					
QPSK Modulation					
Mid Ch. 634.5 MHz	36.178	0	36.2	39.2	42.2
16-QAM Modulation					
Mid Ch. 634.5 MHz	36.606	0	36.6	39.6	42.6
64-QAM Modulation					
Mid Ch. 634.5 MHz	36.1	0	36.1	39.1	42.1
256-QAM Modulation					
Mid Ch. 634.5 MHz	36.078	0	36.1	39.1	42.1

# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE

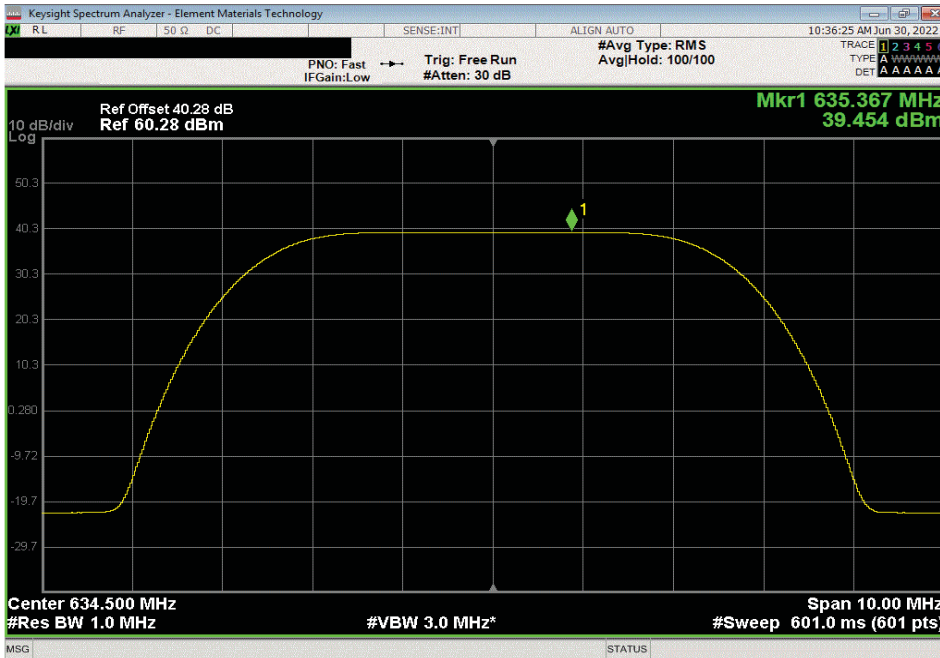


TbT 2022.05.02.0 XMI 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Ch. 619.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
39.532	0	39.5	42.5	45.5	



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
39.454	0	39.5	42.5	45.5	

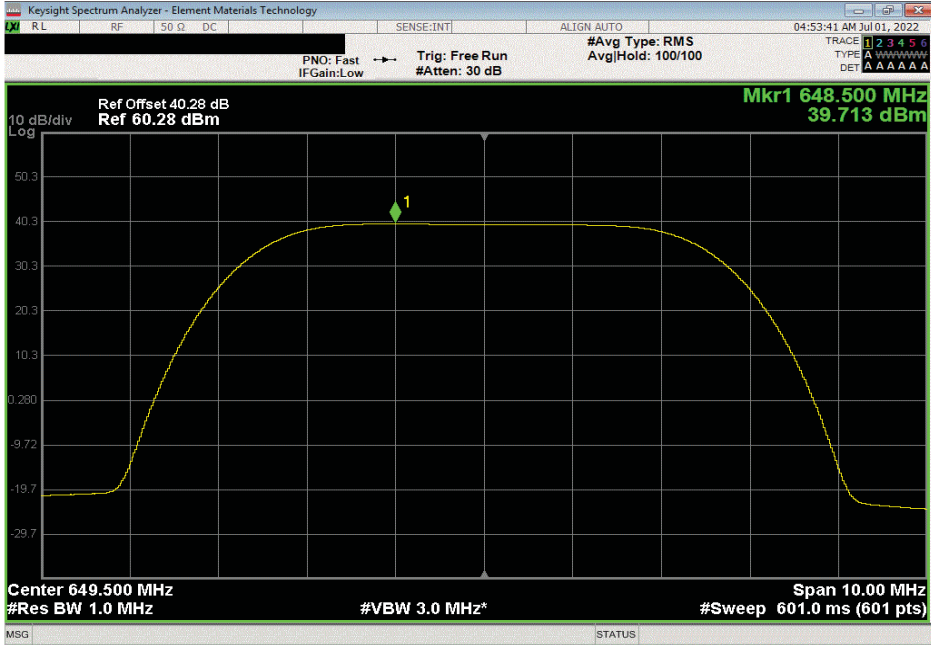


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE

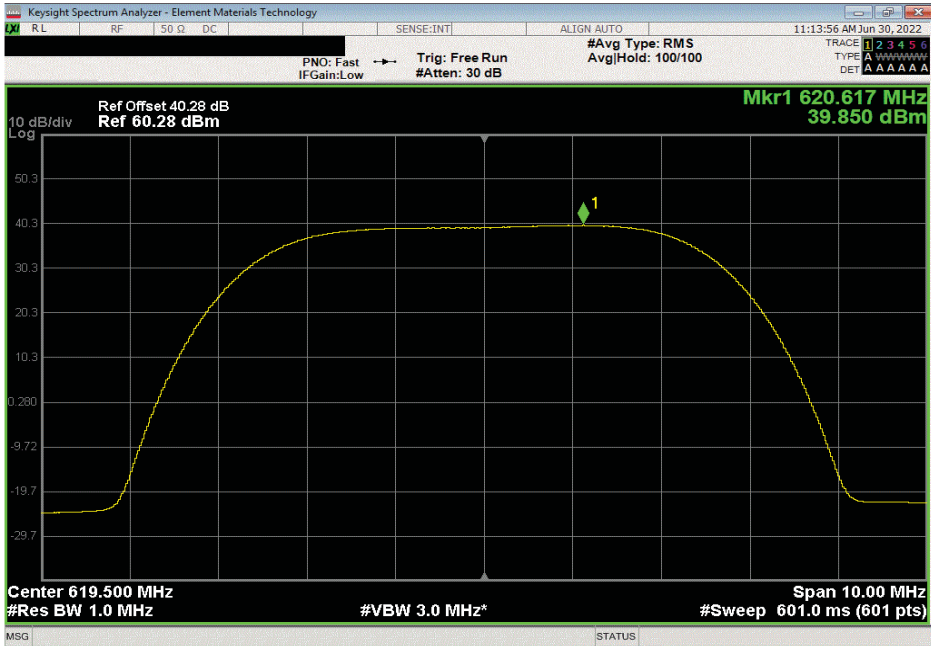


TbTx 2022.05.02.0 XMI 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, QPSK Modulation, High Ch. 649.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
39.713	0	39.7	42.7	45.7	



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Ch. 619.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
39.85	0	39.9	42.9	45.9	

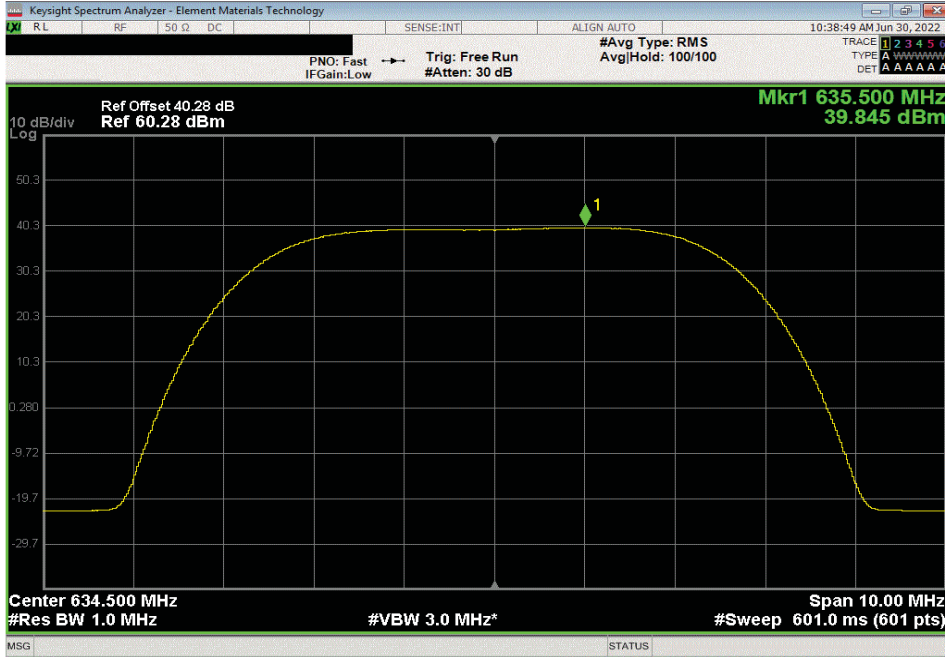


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE

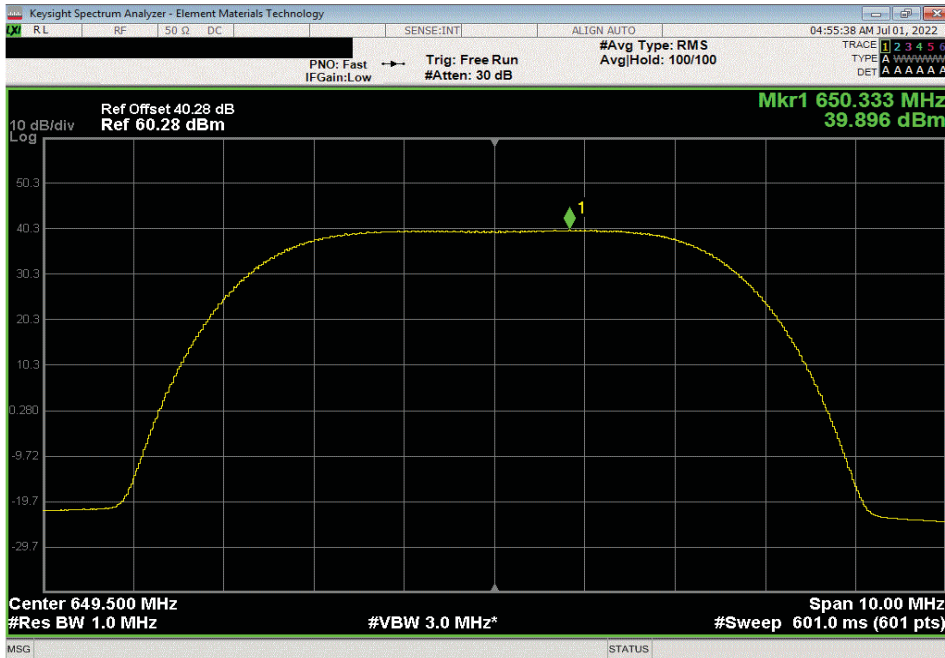


TMTx 2022.06.02.0 XMI 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
39.845	0	39.8	42.8	45.8	



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Ch. 649.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
39.896	0	39.9	42.9	45.9	

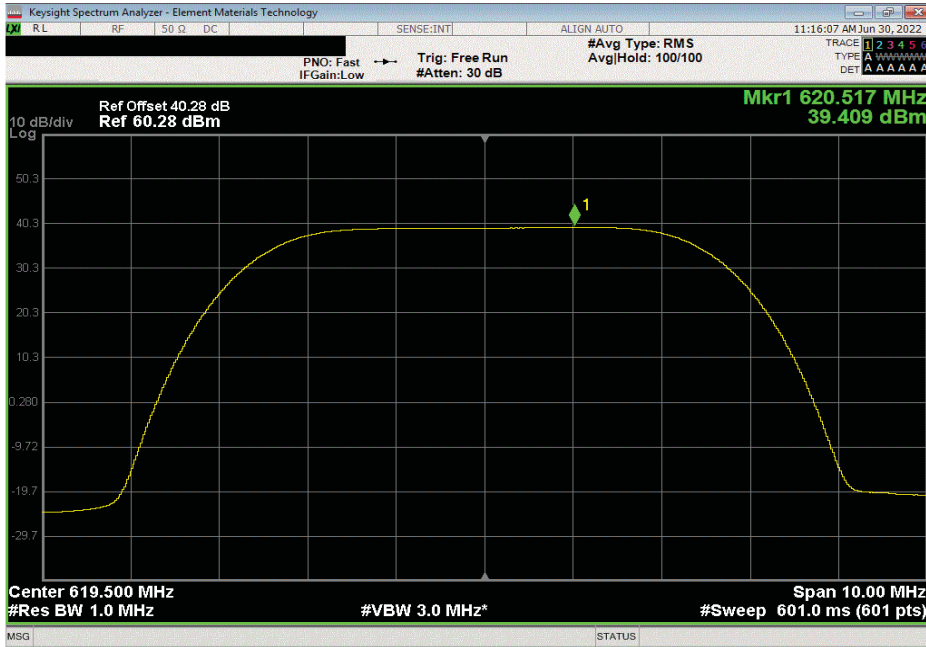


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE

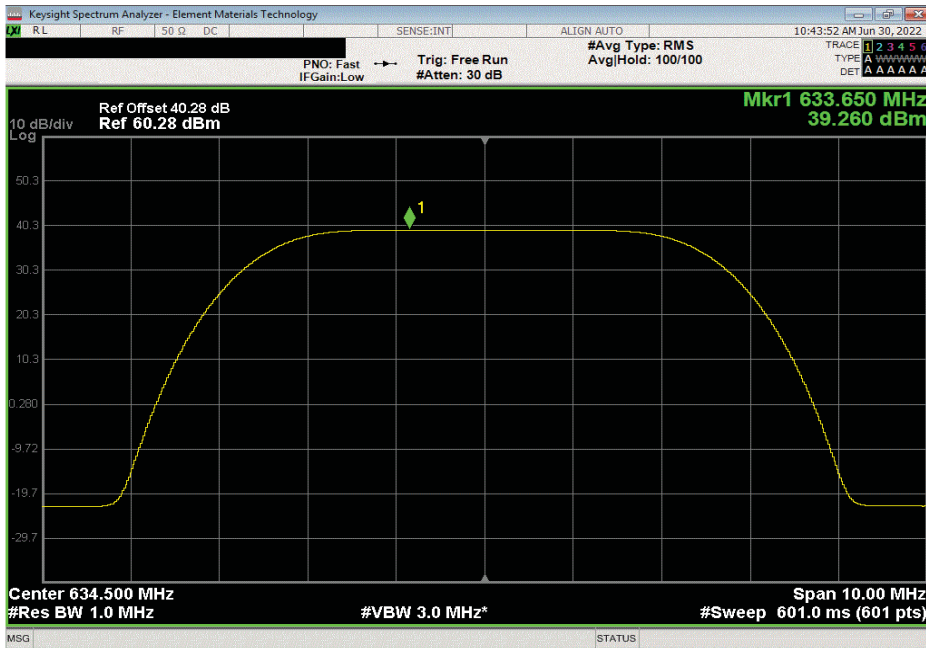


TbTx 2022.05.02.0 XMM 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Ch. 619.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
39.409	0	39.4	42.4	45.4	



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
39.26	0	39.3	42.3	45.3	



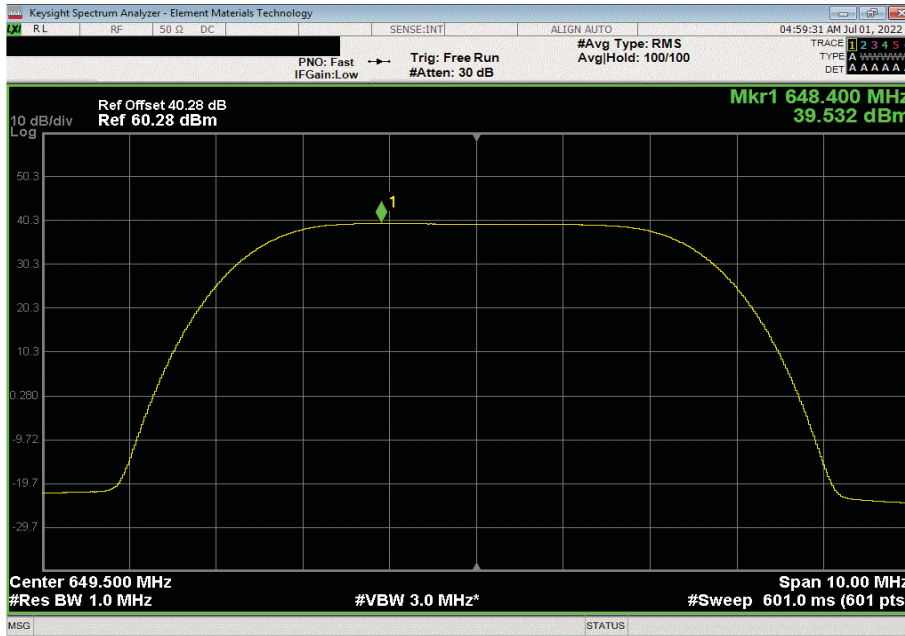


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE

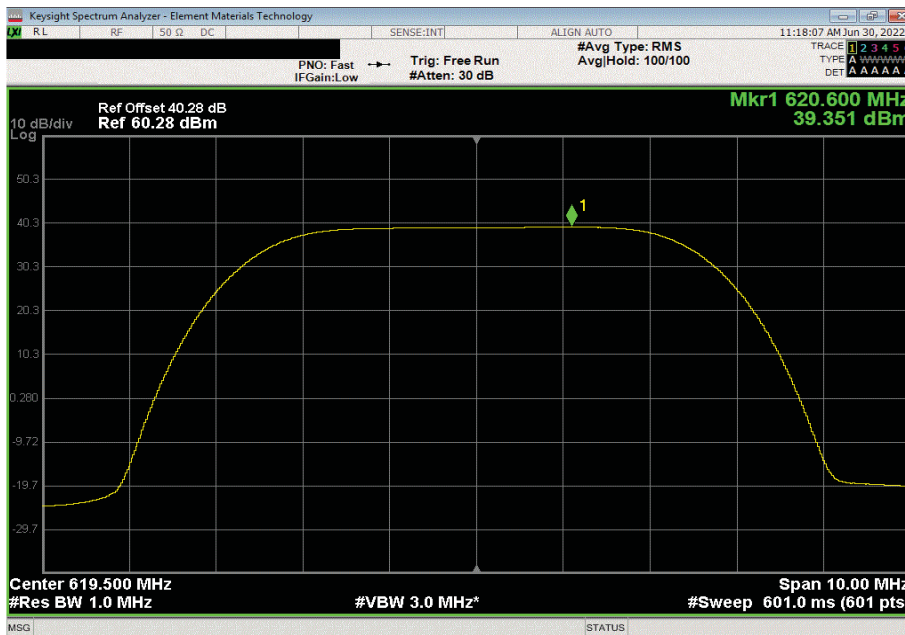


TbT4 2022.05.02.0 XMI 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Ch. 649.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
39.532	0	39.5	42.5	45.5	



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Ch. 619.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
39.351	0	39.4	42.4	45.4	

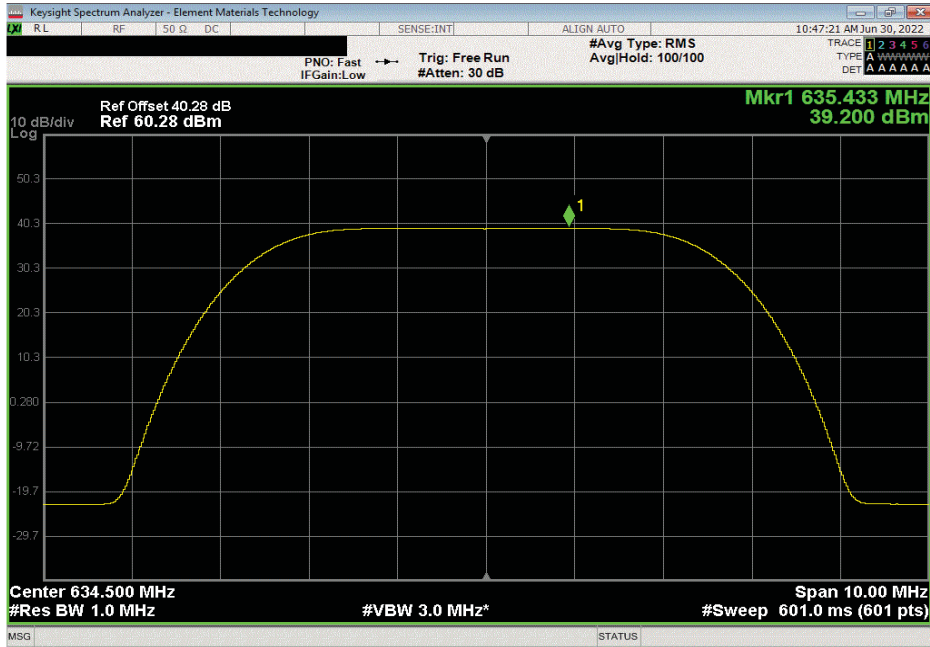


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE

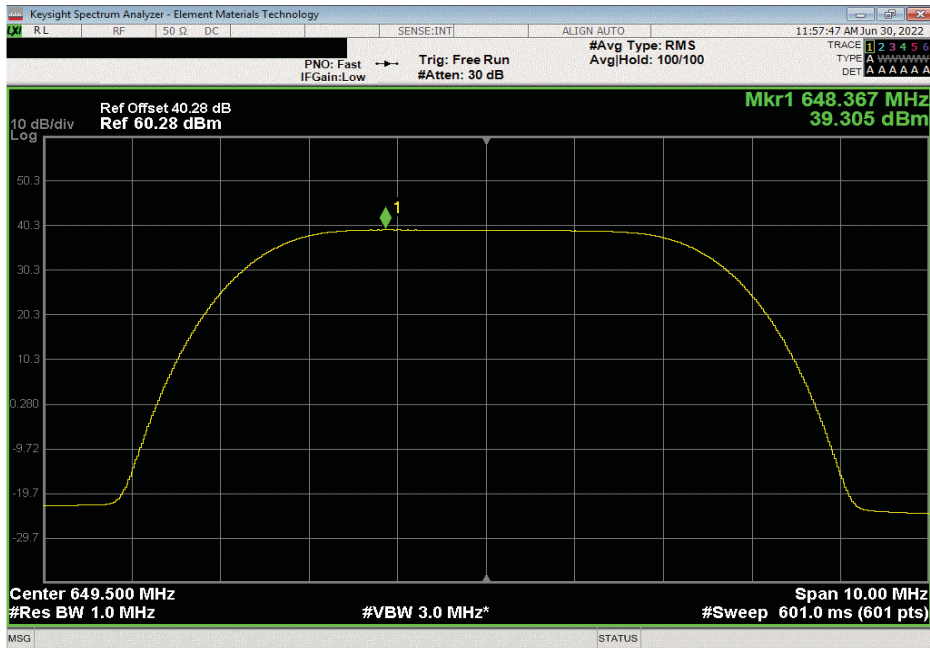


TxtTx 2022.05.02.0 XMI 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
39.2	0	39.2	42.2	45.2	



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, High Ch. 649.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
39.305	0	39.3	42.3	45.3	

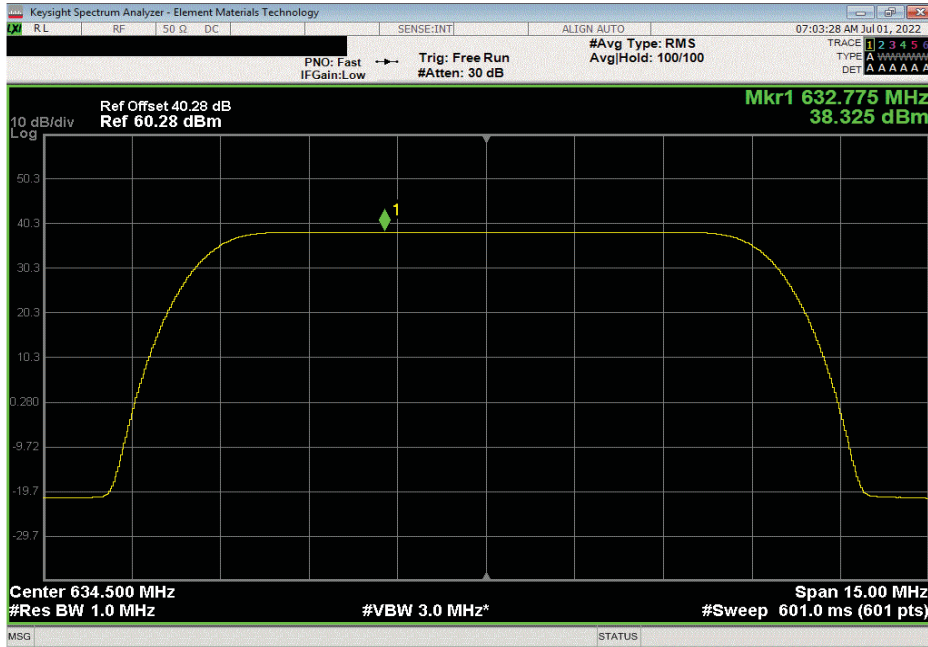


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE



TMTx 2022.05.02.0 XMM 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, QPSK Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
38.325	0	38.3	41.3	44.3	



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
38.614	0	38.6	41.6	44.6	

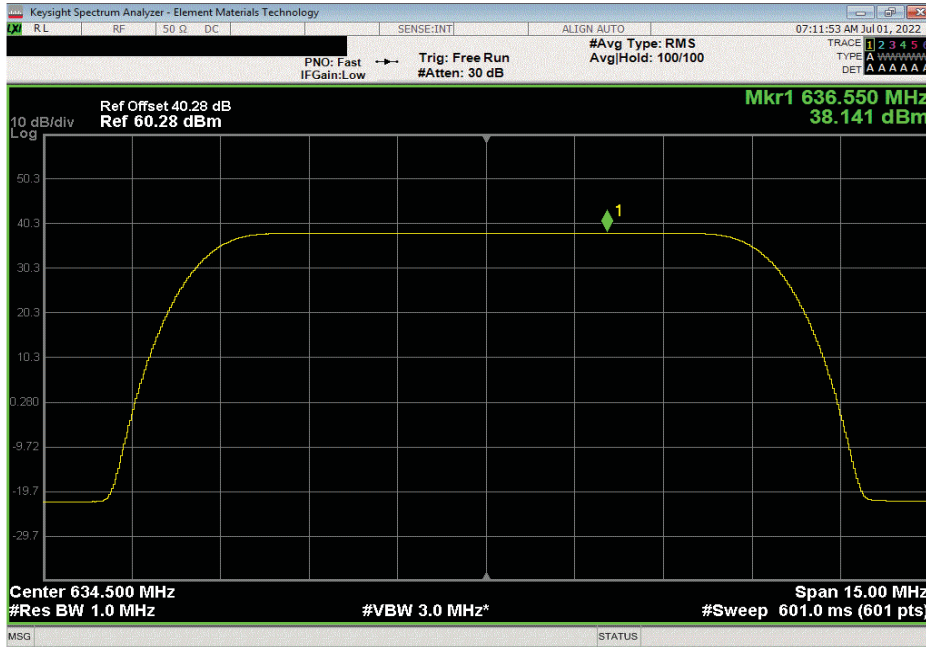


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE



TbTx 2022.05.02.0 XMI 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 64-QAM Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
38.141	0	38.1	41.1	44.1	

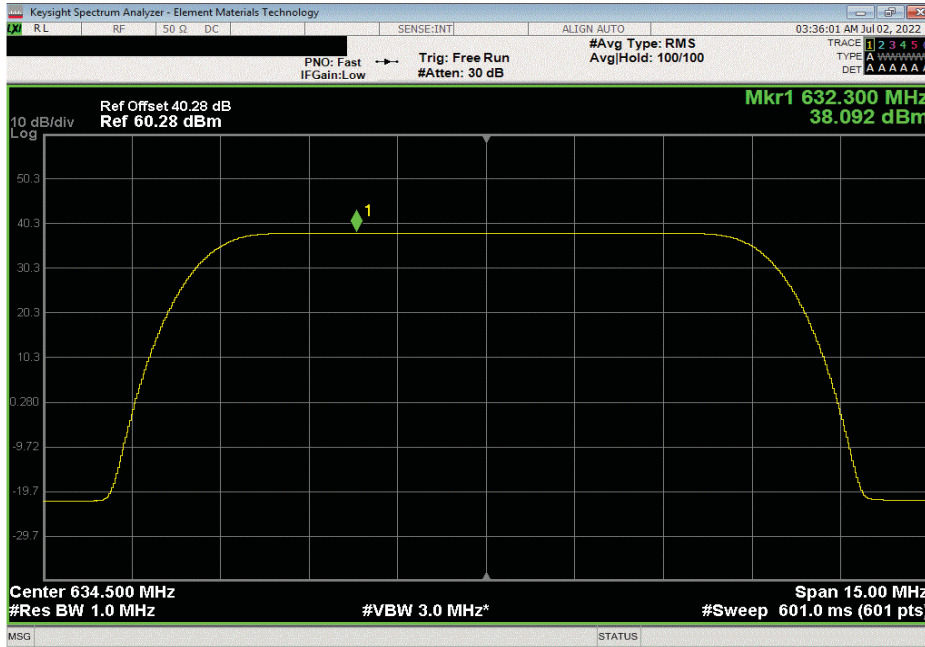


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE

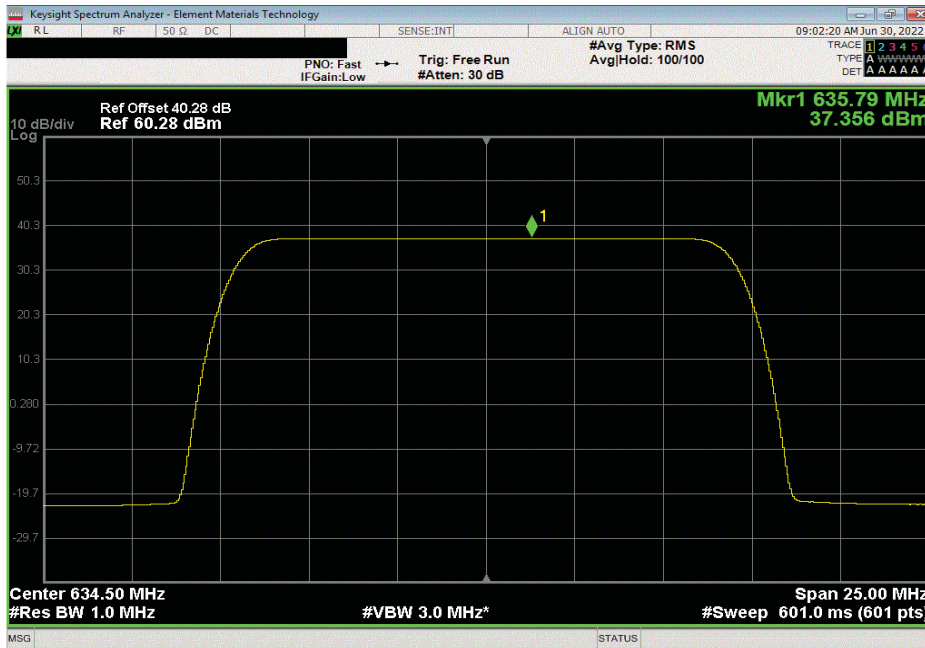


TMTx 2022.05.02.0 XMM 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
38.092	0	38.1	41.1	44.1	



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, QPSK Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
37.356	0	37.4	40.4	43.4	

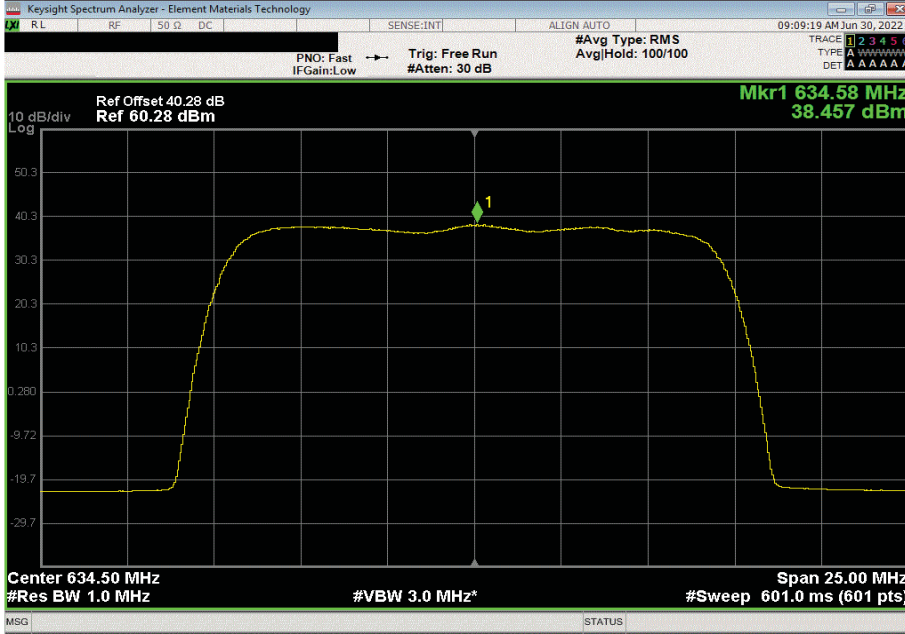


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE

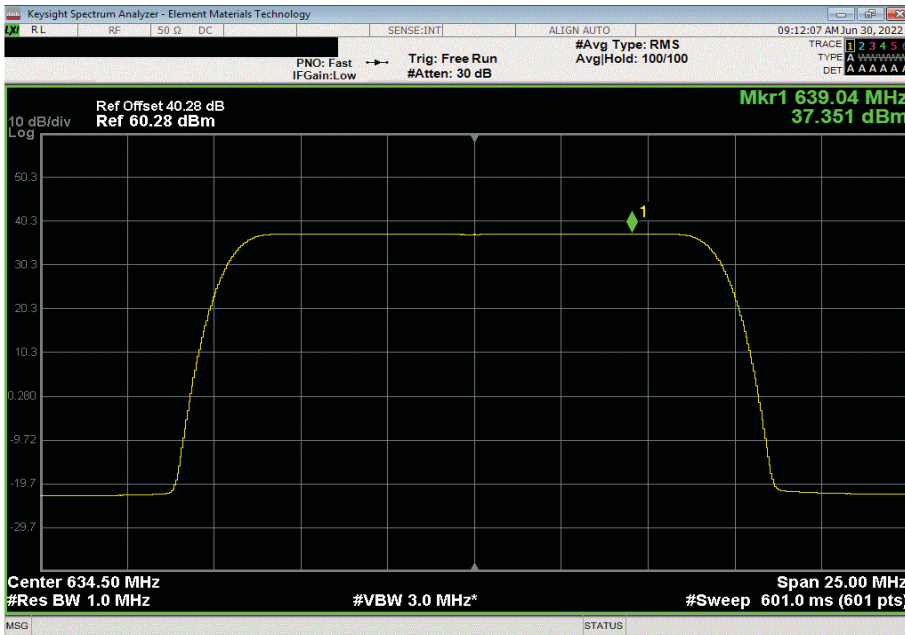


ThTx 2022.05.02.0 XMI 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
38.457	0	38.5	41.5	44.5	



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
37.351	0	37.4	40.4	43.4	



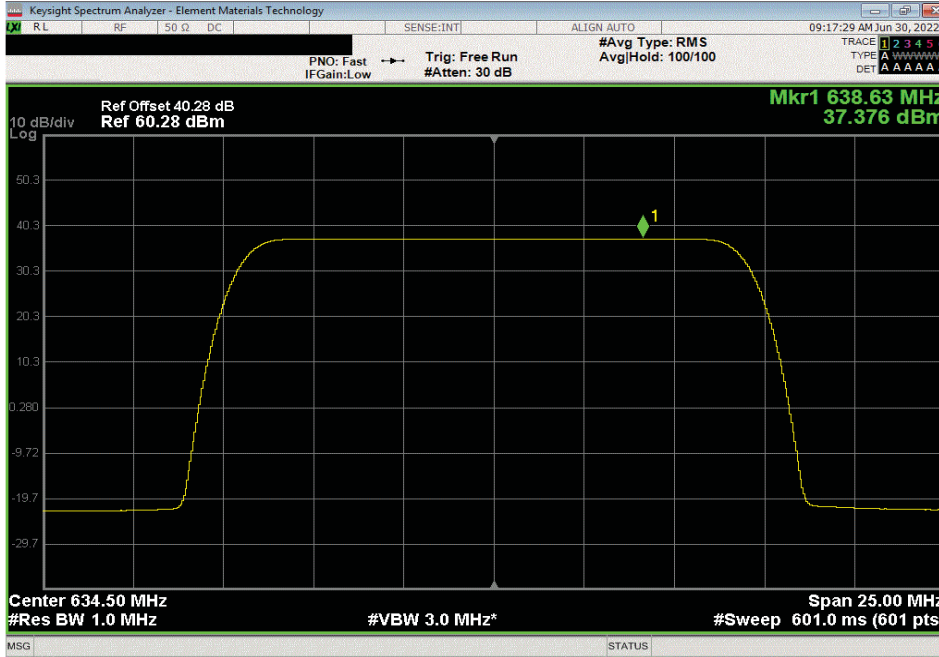


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE

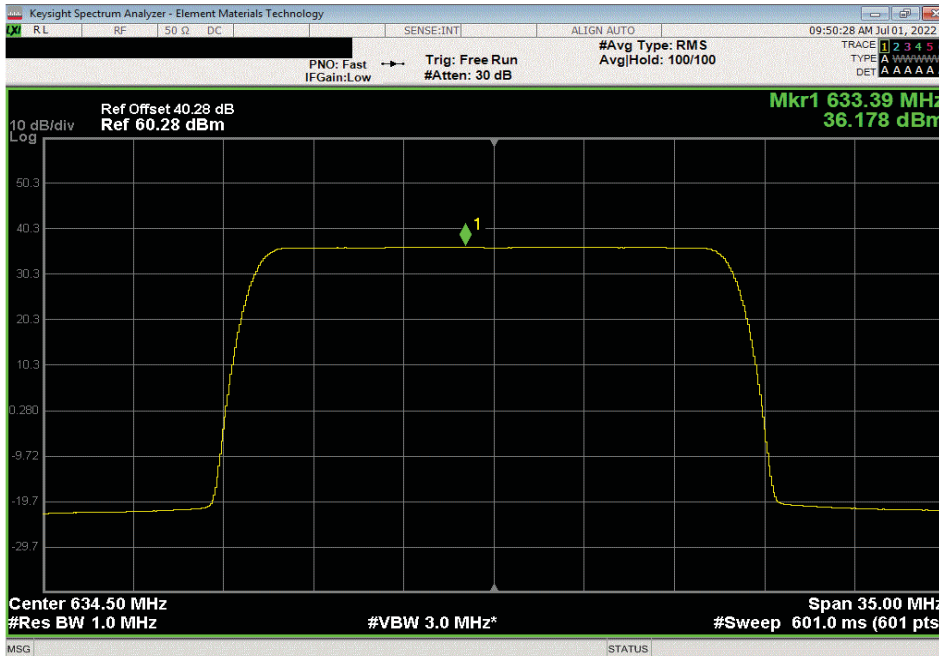


TbTx 2022.05.02.0 XMI 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
37.376	0	37.4	40.4	43.4	



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, QPSK Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
36.178	0	36.2	39.2	42.2	

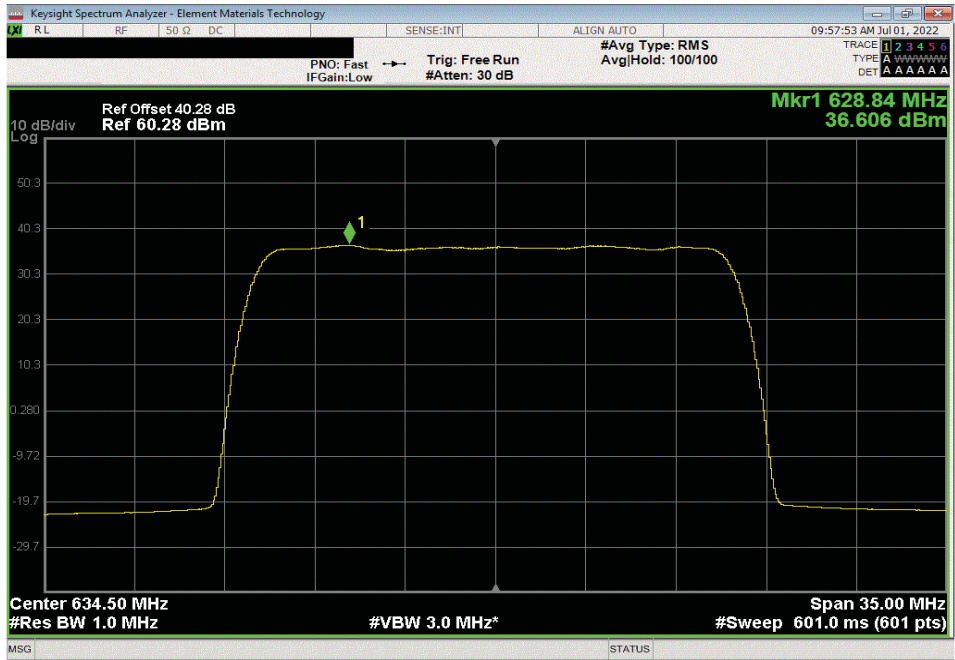


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE

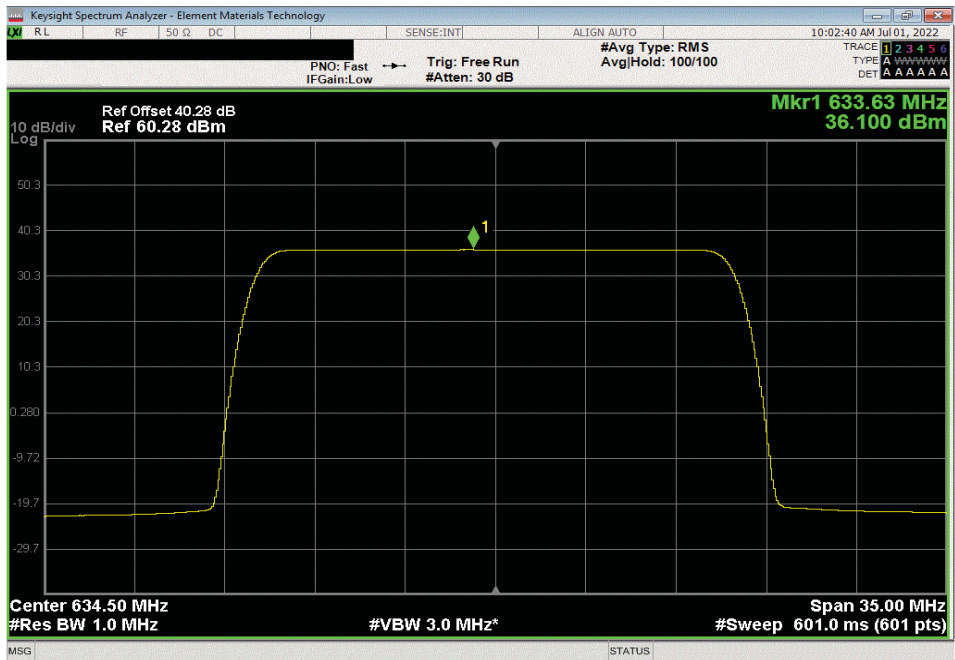


TMTx 2022.06.02.0 XMI 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
36.606	0	36.6	39.6	42.6	



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
36.1	0	36.1	39.1	42.1	

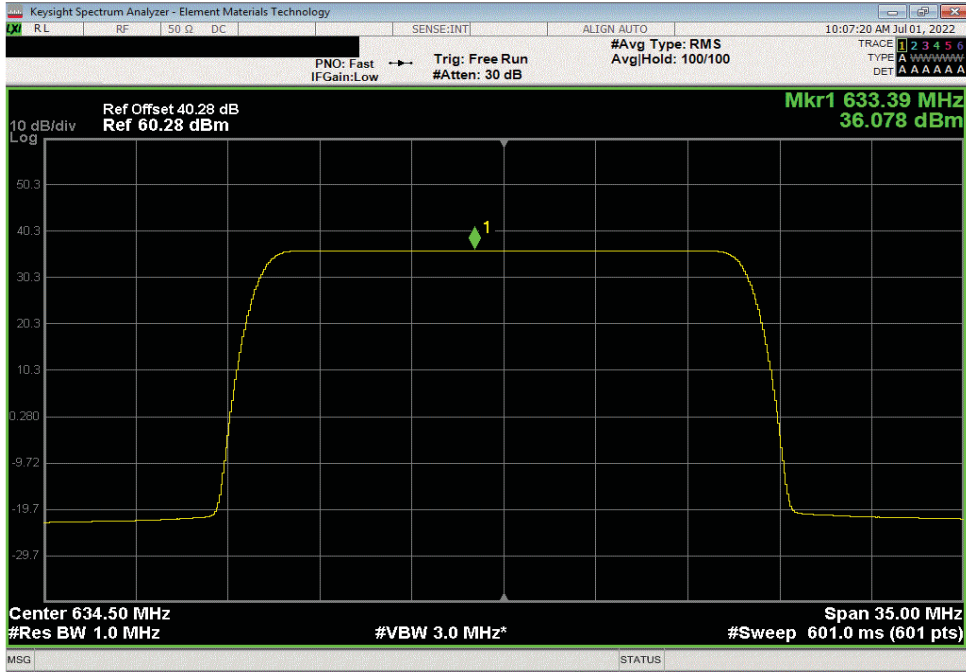


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE



TMTx 2022.05.02.0 XMM 2022.02.07.0

Port 2, LTE, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Ch. 634.5 MHz					
Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Two Port (4x4 MIMO)	
dBm/MHz	factor (dB)	dBm/MHz == PSD	dBm/MHz == PSD	dBm/MHz == PSD	
36.078	0	36.1	39.1	42.1	



# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 71 LTE



Tel: 2022.06.03.0 MM: 2022.02.07.0

## EIRP Calculations

EIRP calculations are needed at each transmitter location to optimize base station operational performance while meeting regulatory requirements. Each cell site installation needs to consider the power measurements in the radio certification report as well as site specific regulatory requirements (such as antenna height, population density, etc.), site installation parameters (line loss between antenna and radio, antenna parameters, etc.) and base station operational parameters (MIMO operational setup, carrier power level, channel bandwidth, modulation type, etc.) to optimize performance. Transmitter output power may be reduced (from maximum) by base station setup parameters. Base station antennas are selected by the customer.

The base station antenna is selected by the customer and this EIRP calculation is based upon a sample worst case antenna. The EIRP calculation is based upon Commscope antenna assembly model "FF-65C-R1". The maximum Band 71 gain (15.7dBi) for this antenna was used for the EIRP calculation. This antenna assembly has a pair of  $\pm 45^\circ$  cross-polarized radiators. The four antenna RF inputs on the antenna assembly are labeled as R1 +45°, R1 -45°, R2 +45° and R2 -45°. The four AHLOB transmitter outputs are connected to the antenna assembly RF inputs.

Equivalent Isotropically Radiated Power (EIRP) is calculated for four port MIMO (as specified in ANSI C63.26-2015 section 6.4 for uncorrelated output signals) from the results of power measurements (highest measured PSD for each channel bandwidth type). The maximum antenna gain was used for this calculation. The cable loss between the antenna and transmitter is site dependent (will not be 0 dB) but for this worst case EIRP calculation 0 dB was used. Calculations of worst-case EIRP for four port MIMO are as follows:

Parameter	5 MHz Ch BW	10 MHz Ch BW	15 MHz Ch BW	20 MHz Ch BW
Worst Case PSD/Antenna Port	39.9 dBm/MHz	38.6 dBm/MHz	38.5 dBm/MHz	36.6 dBm/MHz
Number of Ant Ports per Polarization	2	2	2	2
Total PSD per Polarization	42.9	41.6	41.5	39.6
Cable Loss (site dependent)	0 dB	0 dB	0 dB	0 dB
Dir Gain = Maximum Antenna Gain ( $G_{Ant}$ ) See Note 1	15.7 dBi	15.7 dBi	15.7 dBi	15.7 dBi
EIRP per Polarization	58.6 dBm/MHz or 724 Watts/MHz	57.3 dBm/MHz or 537 Watts/MHz	57.2 dBm/MHz or 525 Watts/MHz	55.3 dBm/MHz or 339 Watts/MHz
Number of Polarizations	2	2	2	2
EIRP Total = R1 $\pm 45^\circ$ and R2 $\pm 45^\circ$ See Note 2	58.6 dBm/MHz or 724 Watts/MHz	57.3 dBm/MHz or 537 Watts/MHz	57.2 dBm/MHz or 525 Watts/MHz	55.3 dBm/MHz or 339 Watts/MHz

Note 1: The directional gain is equal to antenna gain since the transmit signals are completely uncorrelated. See ANSI C63.26 sections 6.4.5.2.3b) and 6.4.5.3.1b) for guidance.

Note 2: The EIRP per antenna polarity is required to be below the regulatory limit as described in ANSI C63.26-2015 section 6.4.6.3 b)2) and KDB 662911 D02v01 page 3 example (2) since the two transmitter outputs to each antenna are 90 degree-phase shifted relative to each other (cross-polarized radiators).

## EIRP Calculation Summary

The worst case AHLOB Band 71 four port MIMO EIRP levels using antenna assembly model "FF-65C-R1" are less than the FCC and ISSED (65.16 dBm/MHz and 62.15 dBm/MHz) EIRP Regulatory Limits for all (5, 10, 15 & 20MHz) channel bandwidths.

# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 85 LTE



XMH 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

## TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3239	ANE	2022-03-02	2023-03-02
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2022-01-17	2023-01-17

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The fundamental emission power spectral density was measured using the channels and modes as called out on the following data sheets.

The method of ANSI C63.26-2015 section 5.2.4.5 was used to make this measurement.

The RF conducted emission testing was performed on one port. The AHLOB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the "Output Power - All Ports" report section) and antenna port 2 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

The total PSD for all antenna ports (at the radio output) were determined per ANSI C63.26-2015 paragraph 6.4.3.2.4. The EIRP calculations are based upon ANSI C63.26-2015 paragraphs 6.4 for a four port MIMO base station.

### FCC Requirements:

FCC 27.50(c) (3) Fixed and base stations transmitting a signal with an emission bandwidth greater than 1 MHz must not exceed an ERP of 1000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts/MHz ERP in accordance with Table 3 of this section; FCC 27.50(c) (4) Fixed and base stations located in a county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, and transmitting a signal with an emission bandwidth greater than 1 MHz must not exceed an ERP of 2000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 2000 watts/MHz ERP in accordance with Table 4 of this section;

Note: EIRP = ERP + 2.15dB

1000 watts = 60.00 dBm, EIRP = (60 dBm + 2.15dB) /MHz = 62.15dBm/MHz or 1640W/MHz

2000 watts = 63.01 dBm, EIRP = (63 dBm + 2.15dB) /MHz = 65.16dBm/MHz or 3280W/MHz

### ISED Requirements RSS-130 Section 4.6/SRSP-518 section 5.1:

#### SRSP-518 section 5.1 Radiated power and antenna height limits for fixed and base stations

21. For fixed and base stations transmitting in accordance with section 4, the maximum permissible equivalent isotropically radiated power (e.i.r.p.) is 1640 watts and 1640 watts/MHz for a channel bandwidth less than or equal to 1 MHz and greater than 1 MHz, respectively. These e.i.r.p. limits apply for stations with an antenna height above average terrain (HAAT) up to 305 metres.

22. Fixed and base stations located in geographical areas at a distance greater than 26 km from large or medium population centres and transmitting in accordance with section 4, may increase their e.i.r.p. up to a maximum of 3280 watts/MHz (i.e. no more than 3280 watts e.i.r.p. in any 1 MHz band segment), with an antenna HAAT up to 305 metres.

# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 85 LTE



Thy 2022.05.02.0

XMI 2022.02.07.0

EUT:	AHLOB	Work Order:	NOKI0043
Serial Number:	YK220900029	Date:	13-Jul-22
Customer:	Nokia Solutions and Networks	Temperature:	21.5 °C
Attendees:	Mitchell Hill, John Rattanavong	Humidity:	53.1% RH
Project:	None	Barometric Pres.:	1018 mbar
Tested by:	Marty Martin	Power:	54 VDC
		Job Site:	TX07
TEST SPECIFICATIONS		Test Method	
FCC 27:2022		ANSI C63.26:2015	
RSS-130 Issue 2:2019		ANSI C63.26:2015	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The PSD was measured while transmitting one carrier on Port 2. The total PSD for multipoint (2x2, 4x4 MIMO) operation was determined based upon ANSI 63.26 clause 6.4.3.2.4 (10 Log Nout). The total PSD for two port operation is single port PSD +3dB [i.e. 10 Log(2)]. The total PSD for four port operation is single port PSD +6dB [i.e. 10 Log(4)]. The carriers are enabled at maximum power.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature <i>Marty Martin</i>	

Port 2, LTE, Band 85, 728 MHz - 746 MHz	Initial Value dBm/MHz	Duty Cycle Factor (dB)	Single Port dBm/MHz==PSD	Two Port (2x2 MIMO) dBm/MHz==PSD	Four Port (4x4 MIMO) dBm/MHz==PSD
5 MHz Bandwidth					
QPSK Modulation					
Low Ch. 730.5 MHz	39.427	0	39.4	42.4	45.4
Mid Ch. 737 MHz	39.211	0	39.2	42.2	45.2
High Ch. 743.5 MHz	39.355	0	39.4	42.4	45.4
16-QAM Modulation					
Low Ch. 730.5 MHz	39.791	0	39.8	42.8	45.8
Mid Ch. 737 MHz	39.752	0	39.8	42.8	45.8
High Ch. 743.5 MHz	39.795	0	39.8	42.8	45.8
64-QAM Modulation					
Low Ch. 730.5 MHz	39.323	0	39.3	42.3	45.3
Mid Ch. 737 MHz	39.38	0	39.4	42.4	45.4
High Ch. 743.5 MHz	39.345	0	39.3	42.3	45.3
256-QAM Modulation					
Low Ch. 730.5 MHz	39.237	0	39.2	42.2	45.2
Mid Ch. 737 MHz	39.363	0	39.4	42.4	45.4
High Ch. 743.5 MHz	39.149	0	39.1	42.1	45.1
10 MHz Bandwidth					
QPSK Modulation					
Mid Ch. 737 MHz	38.312	0	38.3	41.3	44.3
16-QAM Modulation					
Mid Ch. 737 MHz	39.865	0	39.9	42.9	45.9
64-QAM Modulation					
Mid Ch. 737 MHz	38.211	0	38.2	41.2	44.2
256-QAM Modulation					
Mid Ch. 737 MHz	38.164	0	38.2	41.2	44.2
15 MHz Bandwidth					
QPSK Modulation					
Mid Ch. 737 MHz	37.279	0	37.3	40.3	43.3
16-QAM Modulation					
Mid Ch. 737 MHz	38.299	0	38.3	41.3	44.3
64-QAM Modulation					
Mid Ch. 737 MHz	37.401	0	37.4	40.4	43.4
256-QAM Modulation					
Mid Ch. 737 MHz	37.458	0	37.5	40.5	43.5

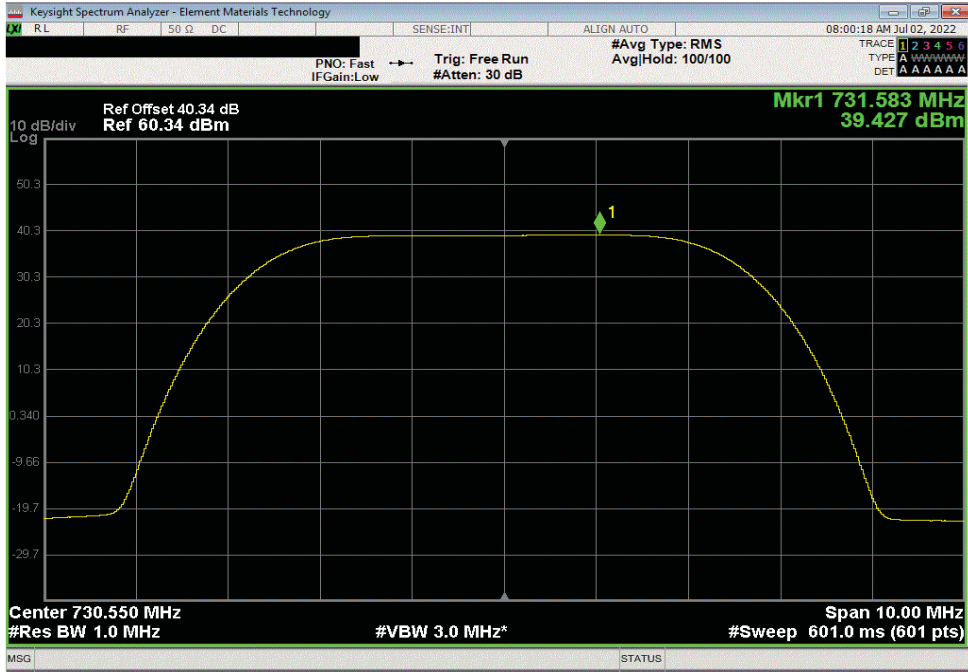


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 85 LTE

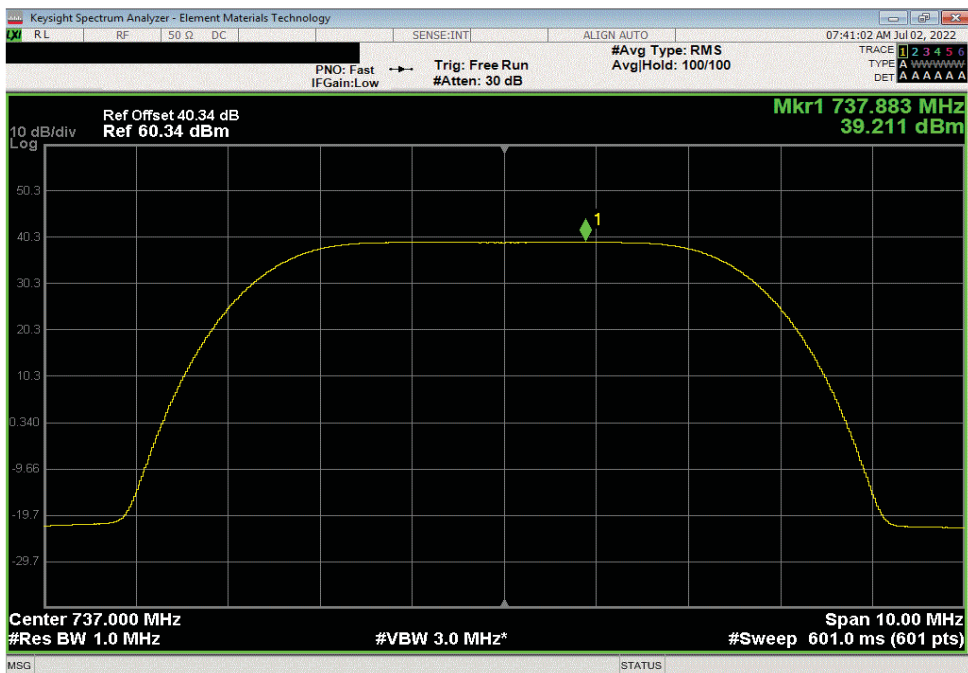


TotTx 2022.05.02.0 XMt 2022.02.07.0

Port 2, LTE, Band 85, 728 MHz - 746 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Ch. 730.5 MHz						
	Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
	dBm/MHz	Factor (dB)	dBm/MHz==PSD	dBm/MHz==PSD	dBm/MHz==PSD	
	39.427	0	39.4	42.4	45.4	



Port 2, LTE, Band 85, 728 MHz - 746 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Ch. 737 MHz						
	Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
	dBm/MHz	Factor (dB)	dBm/MHz==PSD	dBm/MHz==PSD	dBm/MHz==PSD	
	1	0	39.2	42.2	45.2	

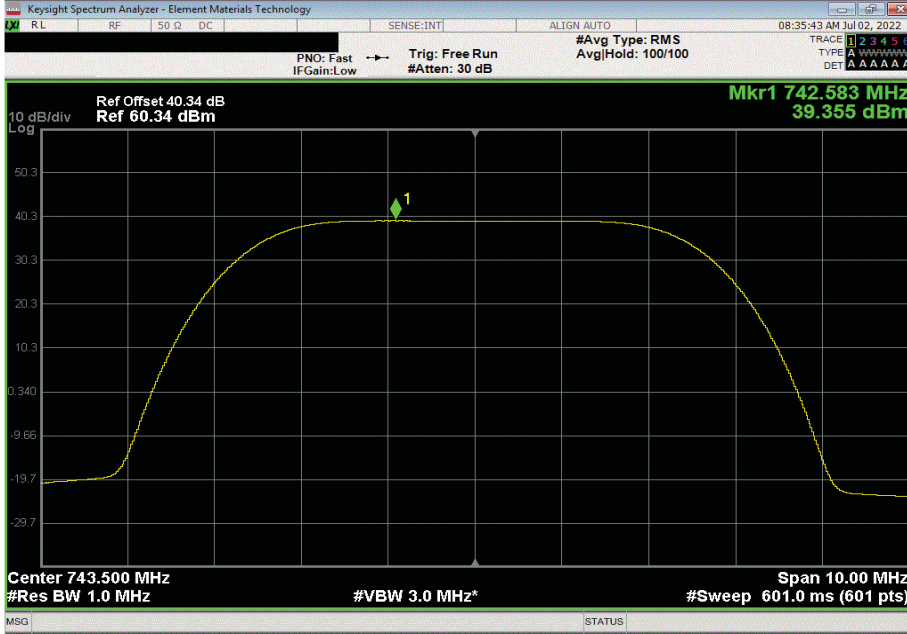


# POWER SPECTRAL DENSITY AND EIRP CALCULATION - Band 85 LTE



TMTx 2022.05.02.0 XMI 2022.02.07.0

Port 2, LTE, Band 85, 728 MHz - 746 MHz, 5 MHz Bandwidth, QPSK Modulation, High Ch. 743.5 MHz						
	Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
	dBm/MHz	Factor (dB)	dBm/MHz==PSD	dBm/MHz==PSD	dBm/MHz==PSD	
	39.355	0	39.4	42.4	45.4	



Port 2, LTE, Band 85, 728 MHz - 746 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Ch. 730.5 MHz						
	Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
	dBm/MHz	Factor (dB)	dBm/MHz==PSD	dBm/MHz==PSD	dBm/MHz==PSD	
	39.791	0	39.8	42.8	45.8	

