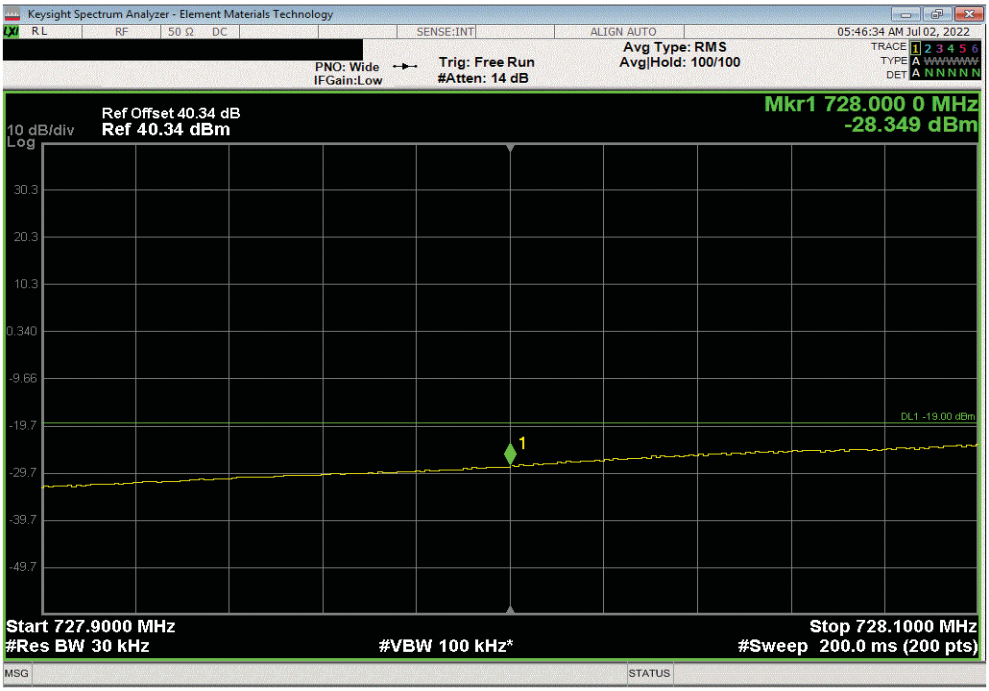
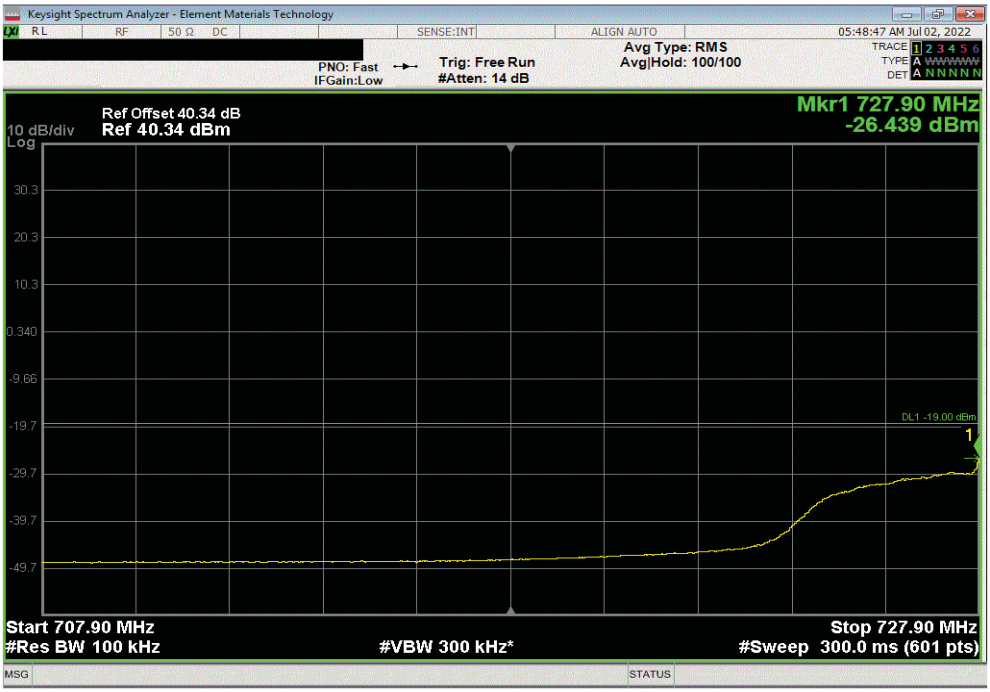
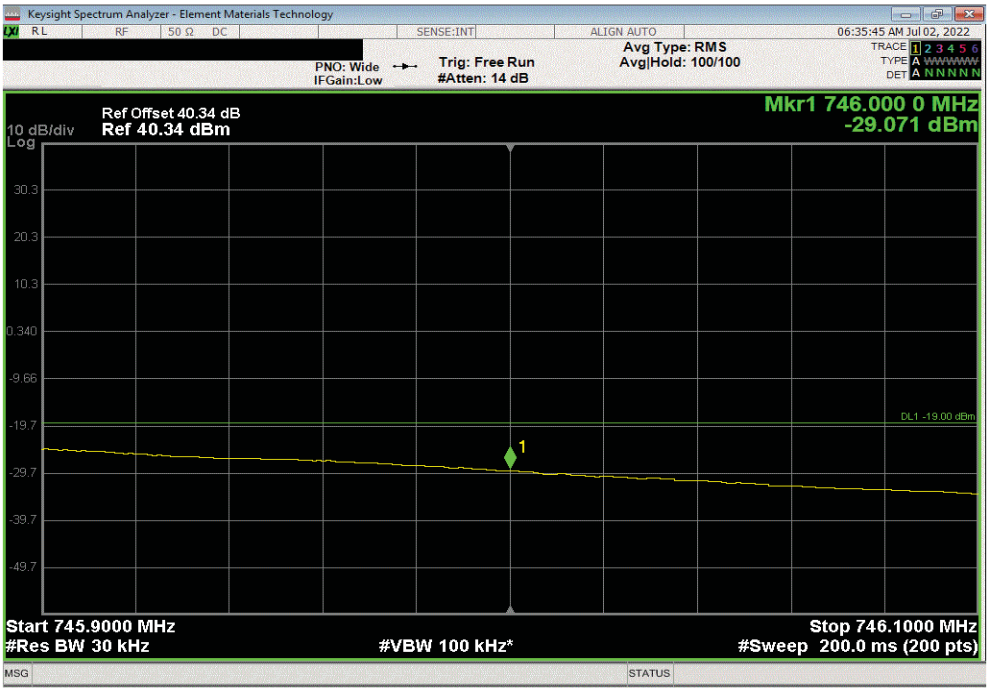
Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Low Ch. 735.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	1			-28.35	-19	Pass



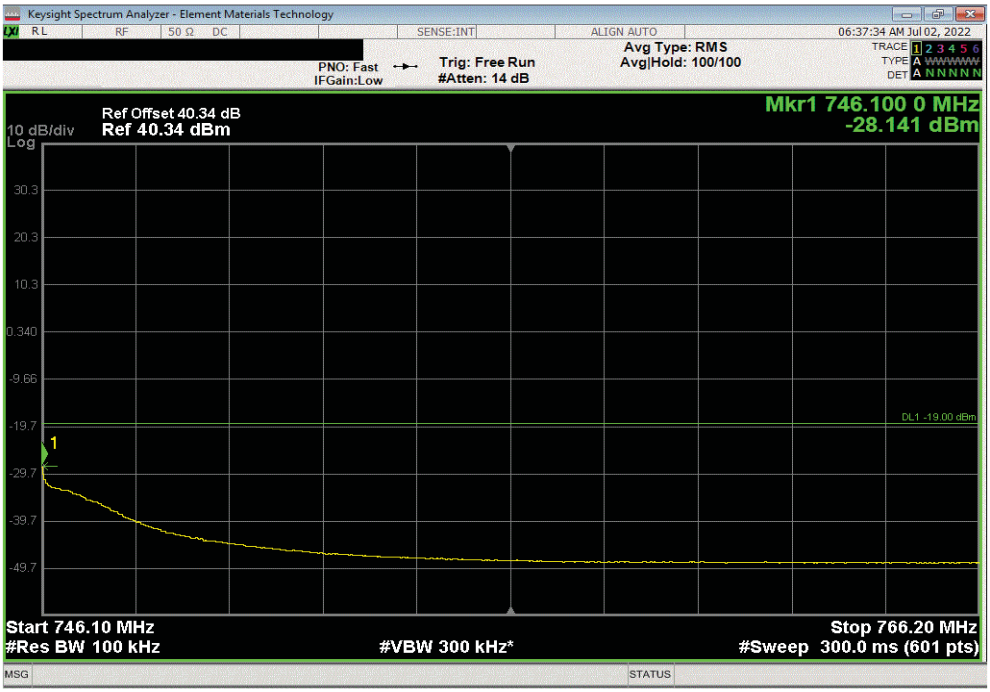
Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Low Ch. 735.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	2			-26.44	-19	Pass



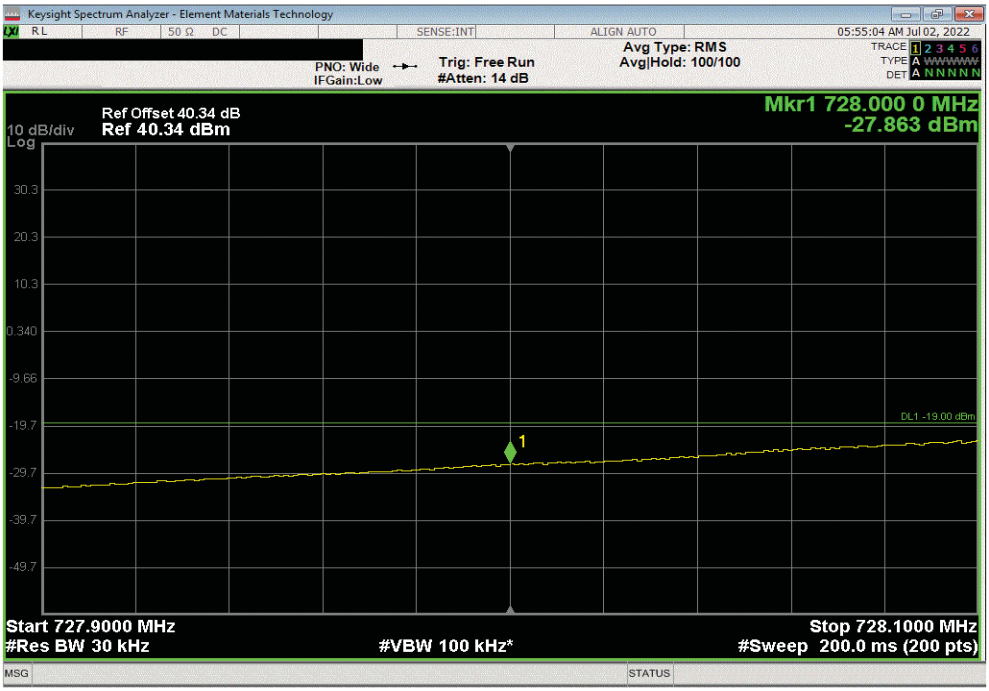
Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, 64-QAM Modulation, High Ch. 738.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	1			-29.07	-19	Pass



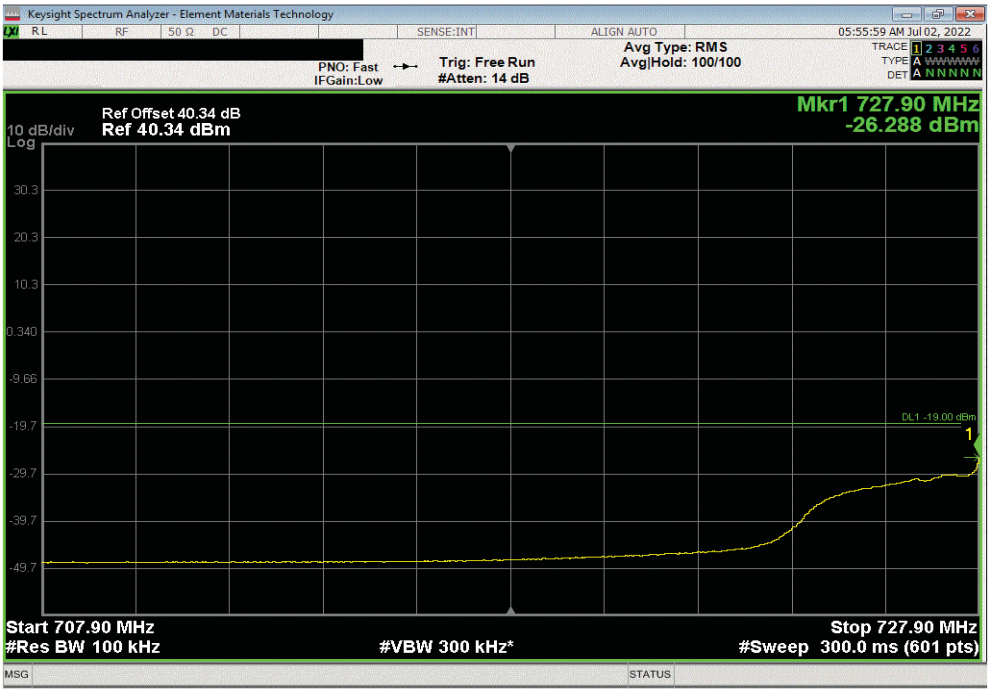
Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, 64-QAM Modulation, High Ch. 738.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	2			-28.14	-19	Pass



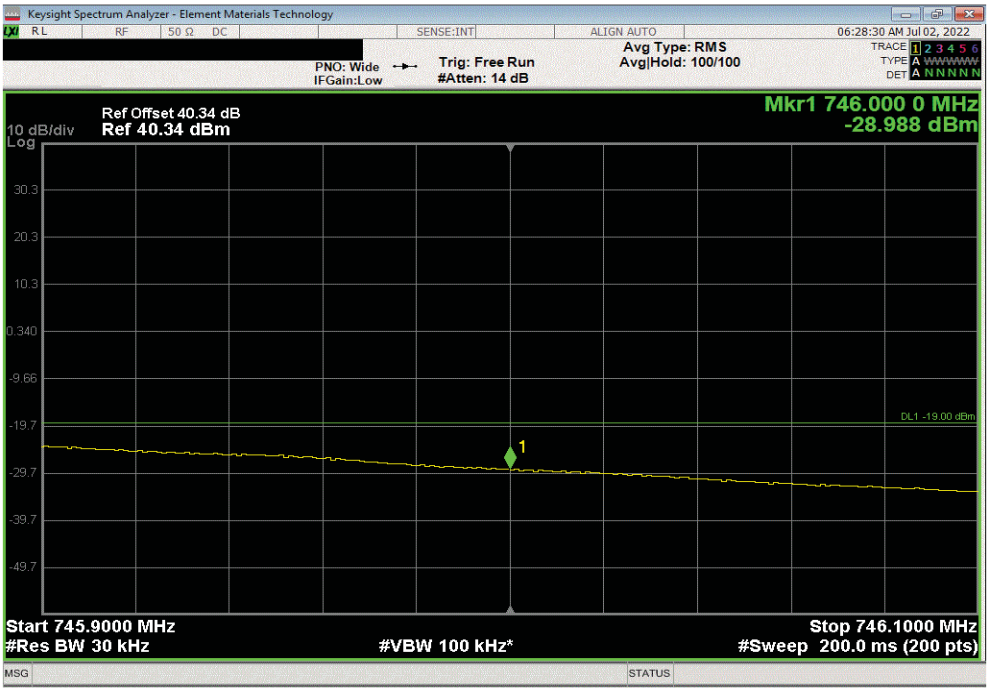
Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Ch. 735.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	1			-27.86	-19	Pass



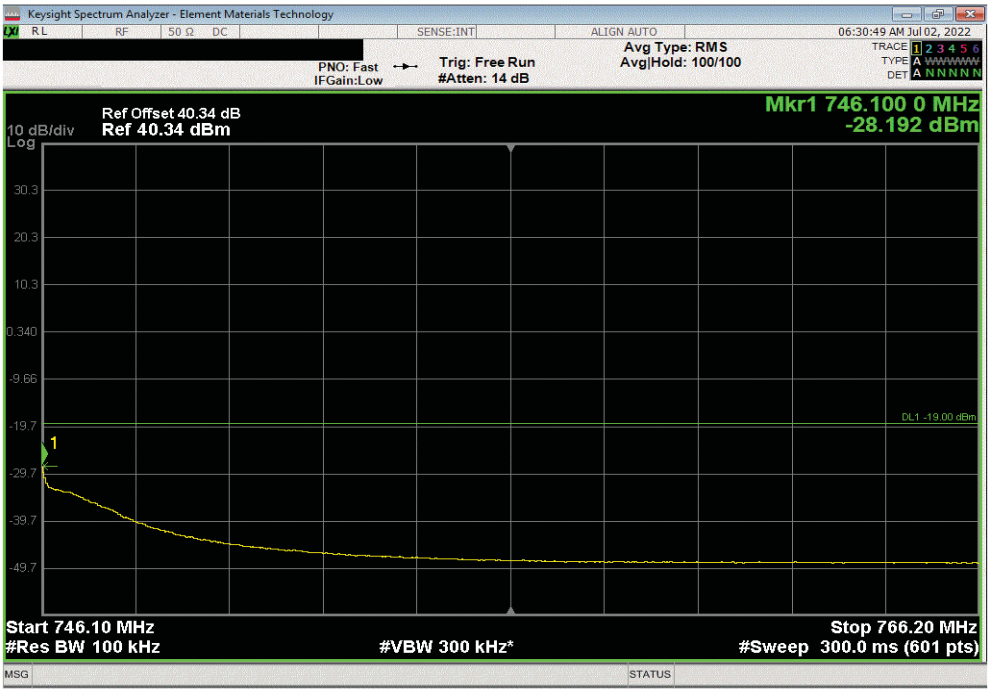
Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Ch. 735.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	2			-26.29	-19	Pass



Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Ch. 738.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	1			-28.99	-19	Pass



Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Ch. 738.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	2			-28.19	-19	Pass



BAND EDGE COMPLIANCE - Band 71 NB IoT GB

XMit 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 spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

All limits were adjusted by a factor of [-10*log(4)] dB to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911.

Per section 27.53(g) and RSS 130 4.7, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Per FCC 27.53(g) and RSS 130 4.7 requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 27.53(g) and RSS 130 4.7 requires a >30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

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 paragraph 5.7.2i.

BAND EDGE COMPLIANCE - Band 71 NB IoT GB

TbtTx 2022.05.02.0 XMit 2022.02.07.0

EUT:	AHLOB			Work Order:	NOKI0043
Serial Number:	YK220900029			Date:	12-Jul-22
Customer:	Nokia Solutions and Networks			Temperature:	20.7 °C
Attendees:	Mitchell Hill, John Rattanavong			Humidity:	55% 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 losses in the measurement path were accounted for: attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power.

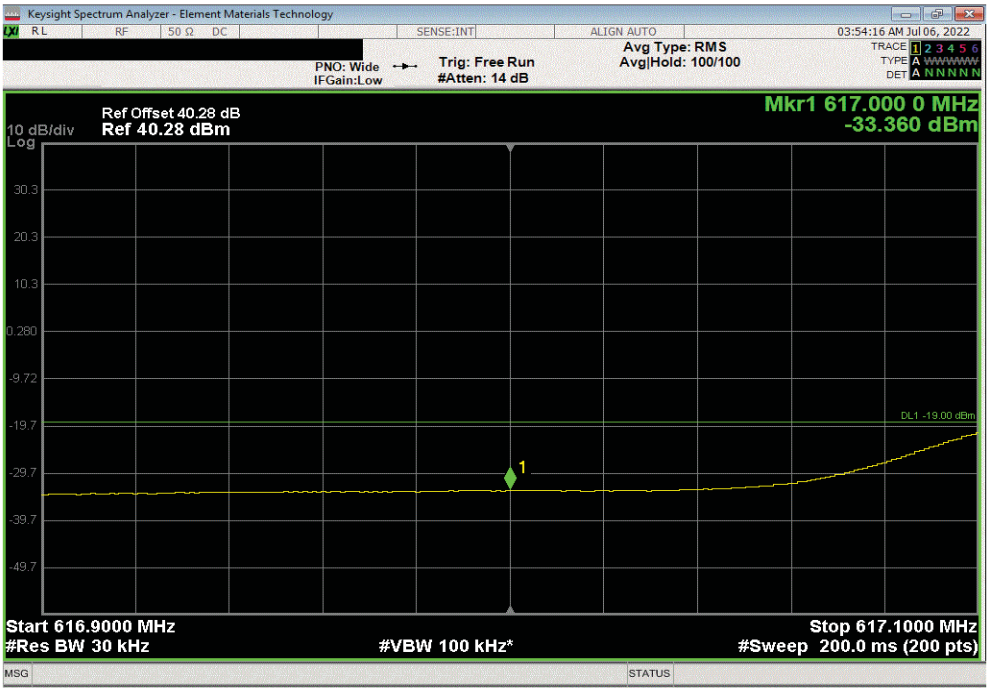
DEVIATIONS FROM TEST STANDARD

None

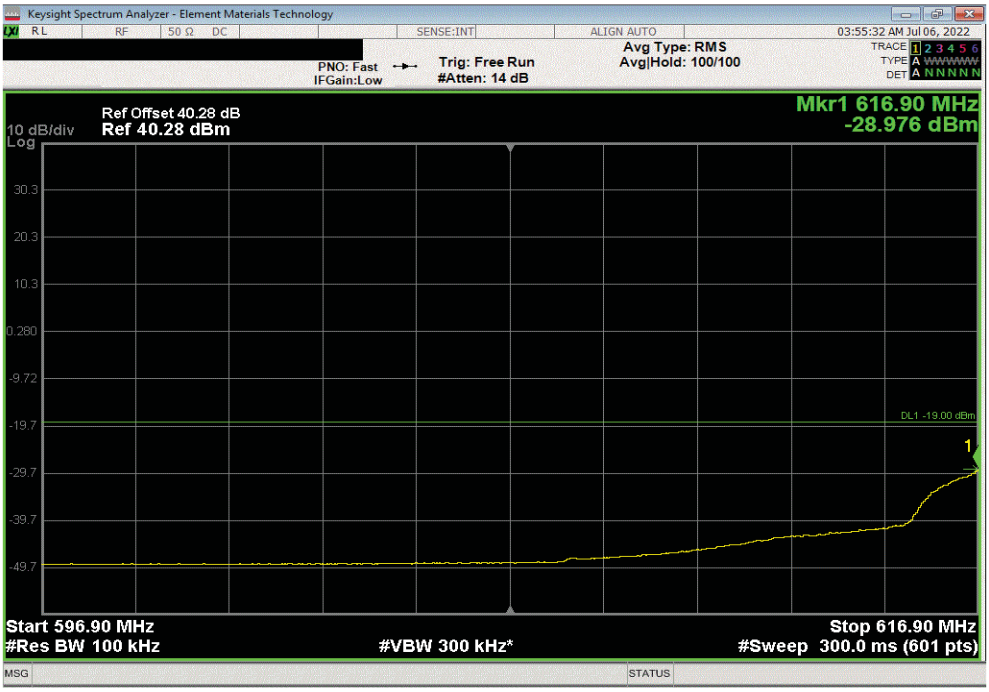
Configuration #	2	Signature

		Frequency Range	Max Value (dBM)	Limit < (dBM)	Result
Port 2, LTE, Band 71, 617 MHz - 652 MHz					
10 MHz Bandwidth					
NB IoT GB					
	Low Ch. 622 MHz	1	-33.36	-19	Pass
	Low Ch. 622 MHz	2	-28.97	-19	Pass
	High Ch. 647 MHz	1	-33.05	-19	Pass
	High Ch. 647 MHz	2	-28.11	-19	Pass
15 MHz Bandwidth					
NB IoT GB					
	Low Ch. 624.5 MHz	1	-32.58	-19	Pass
	Low Ch. 624.5 MHz	2	-27.89	-19	Pass
	High Ch. 644.5 MHz	1	-31.03	-19	Pass
	High Ch. 644.5 MHz	2	-26.08	-19	Pass
20 MHz Bandwidth					
NB IoT GB					
	Low Ch. 627 MHz	1	-31.78	-19	Pass
	Low Ch. 627 MHz	2	-27.85	-19	Pass
	High Ch. 642 MHz	1	-29.32	-19	Pass
	High Ch. 642 MHz	2	-26.06	-19	Pass

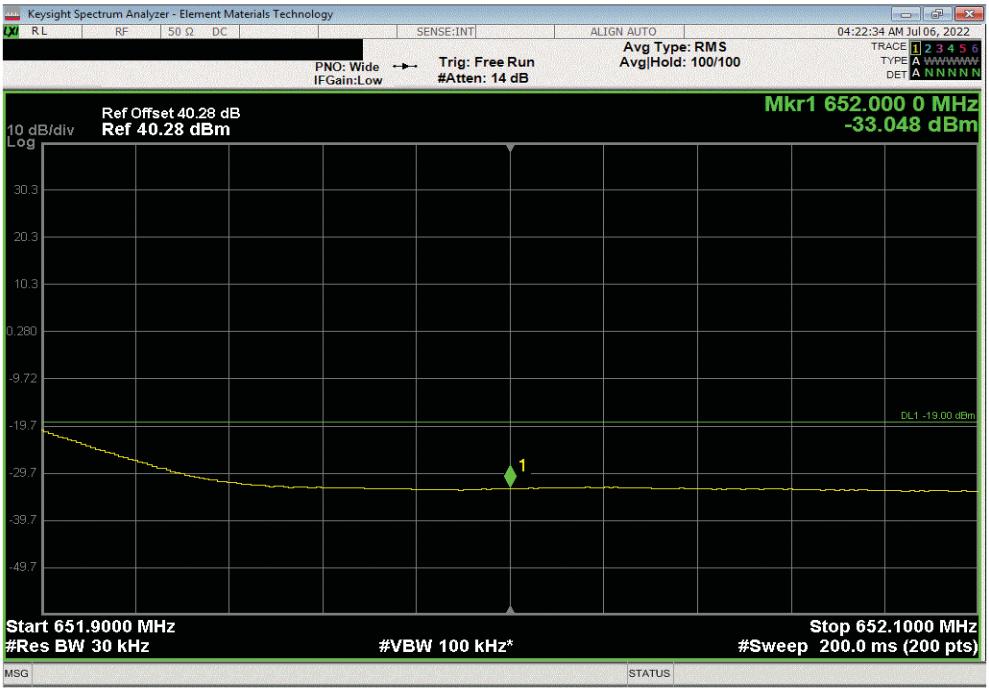
Port 2, LTE, Band n71, 617 MHz - 652 MHz, 10 MHz Bandwidth, NB IoT GB, Low Ch. 622 MHz						
	Frequency Range			Max Value (dBM)	Limit < (dBM)	Result
	1			-33.36	-19	Pass



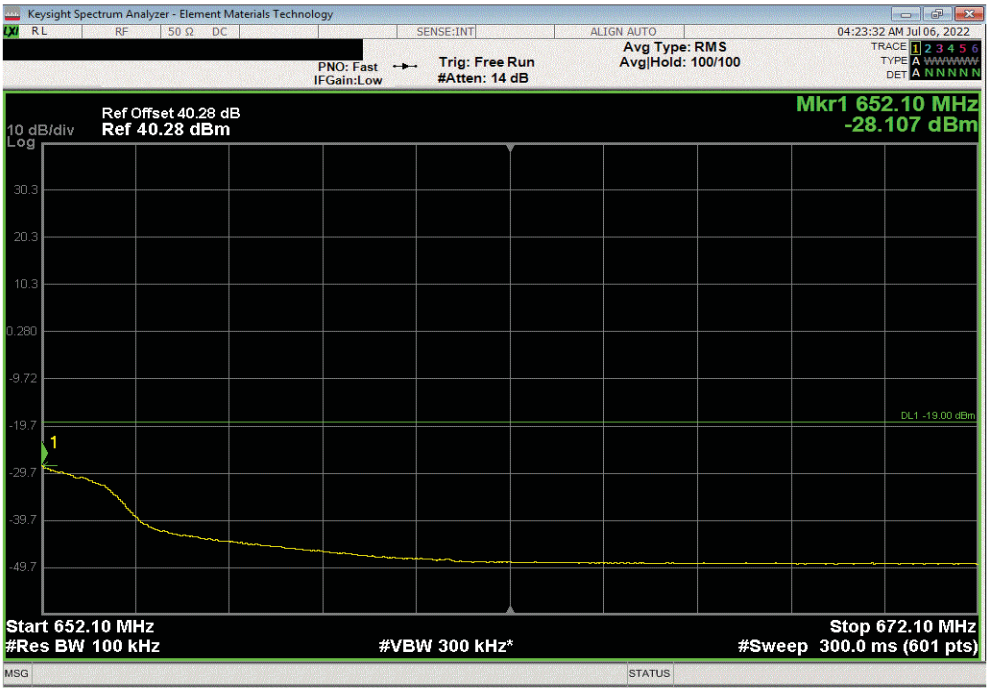
Port 2, LTE, Band n71, 617 MHz - 652 MHz, 10 MHz Bandwidth, NB IoT GB, Low Ch. 622 MHz						
	Frequency Range			Max Value (dBM)	Limit < (dBM)	Result
	2			-28.97	-19	Pass



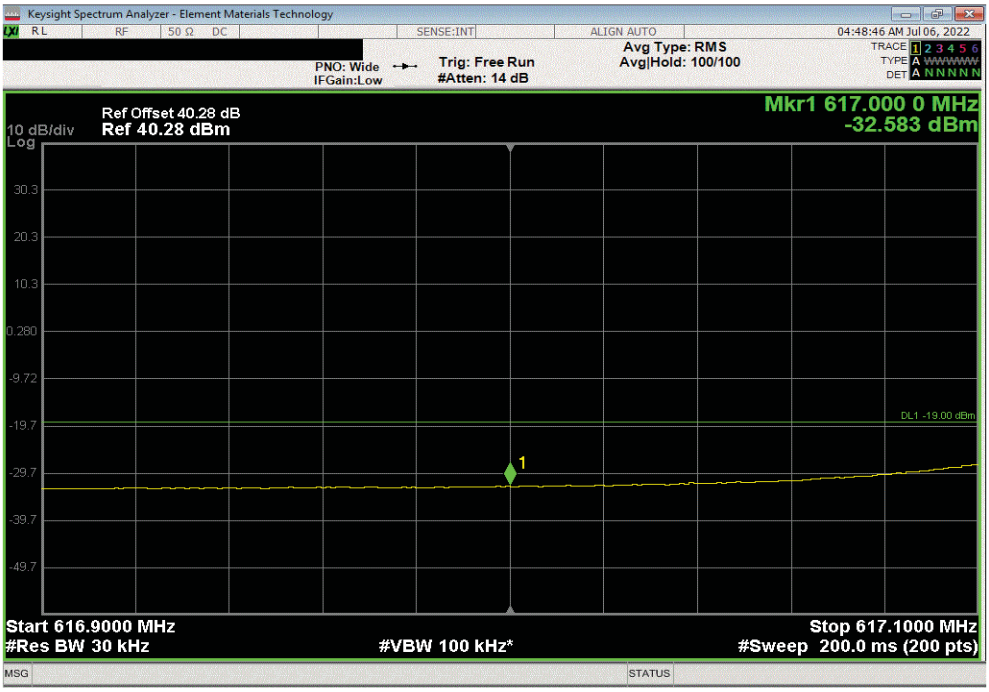
Port 2, LTE, Band n71, 617 MHz - 652 MHz, 10 MHz Bandwidth, NB IoT GB, High Ch. 647 MHz						
	Frequency Range			Max Value (dBM)	Limit < (dBM)	Result
	1			-33.05	-19	Pass



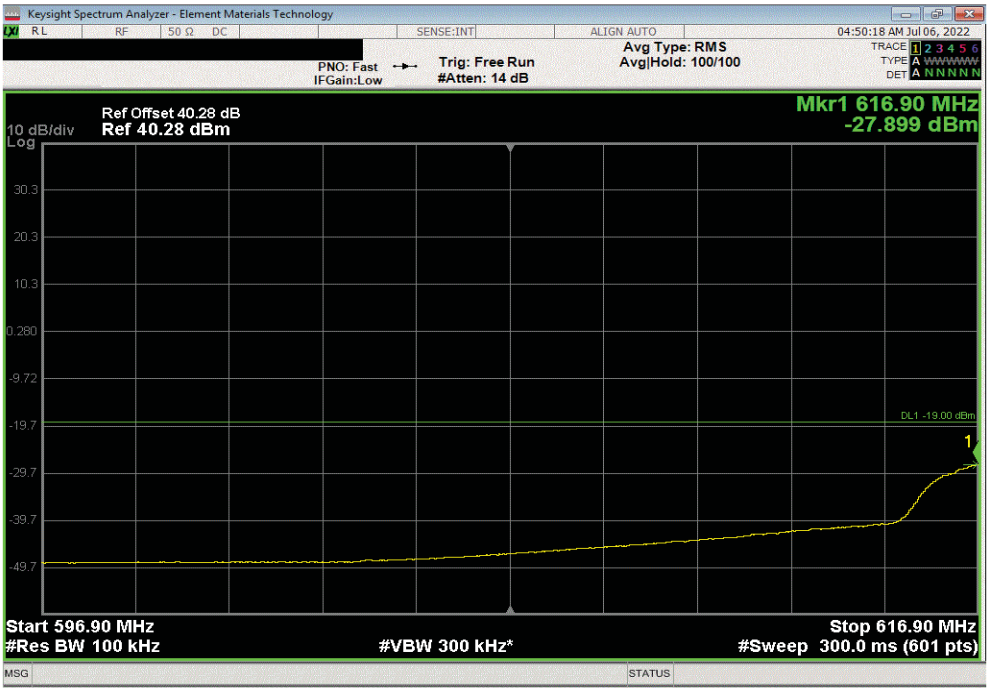
Port 2, LTE, Band n71, 617 MHz - 652 MHz, 10 MHz Bandwidth, NB IoT GB, High Ch. 647 MHz						
	Frequency Range			Max Value (dBM)	Limit < (dBM)	Result
	2			-28.11	-19	Pass



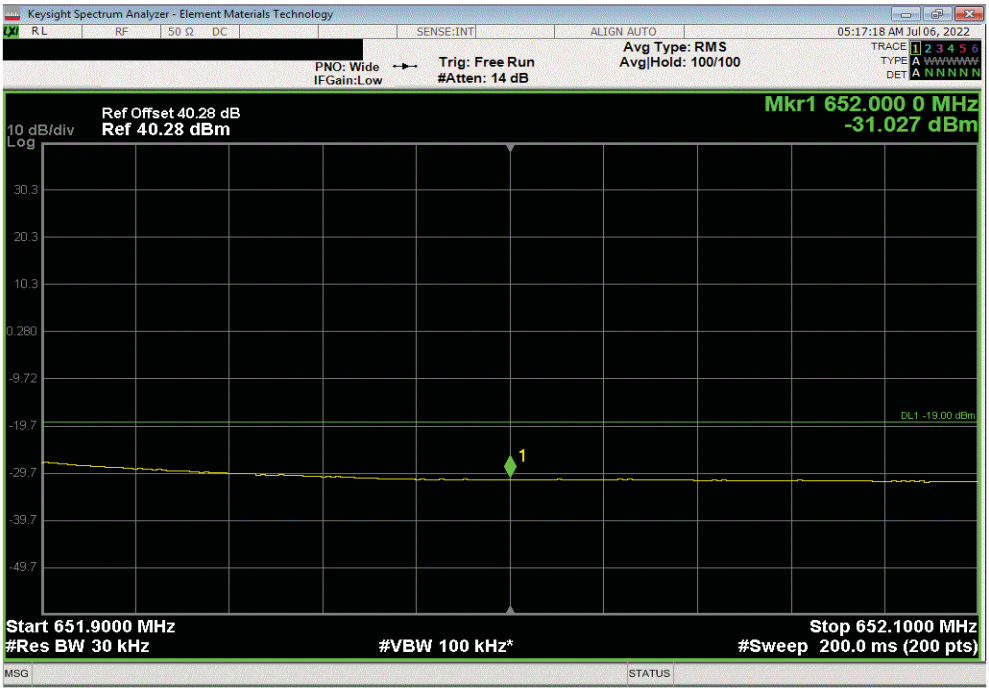
Port 2, LTE, Band n71, 617 MHz - 652 MHz, 15 MHz Bandwidth, NB IoT GB, Low Ch. 624.5 MHz						
	Frequency Range			Max Value (dBM)	Limit < (dBM)	Result
	1			-32.58	-19	Pass



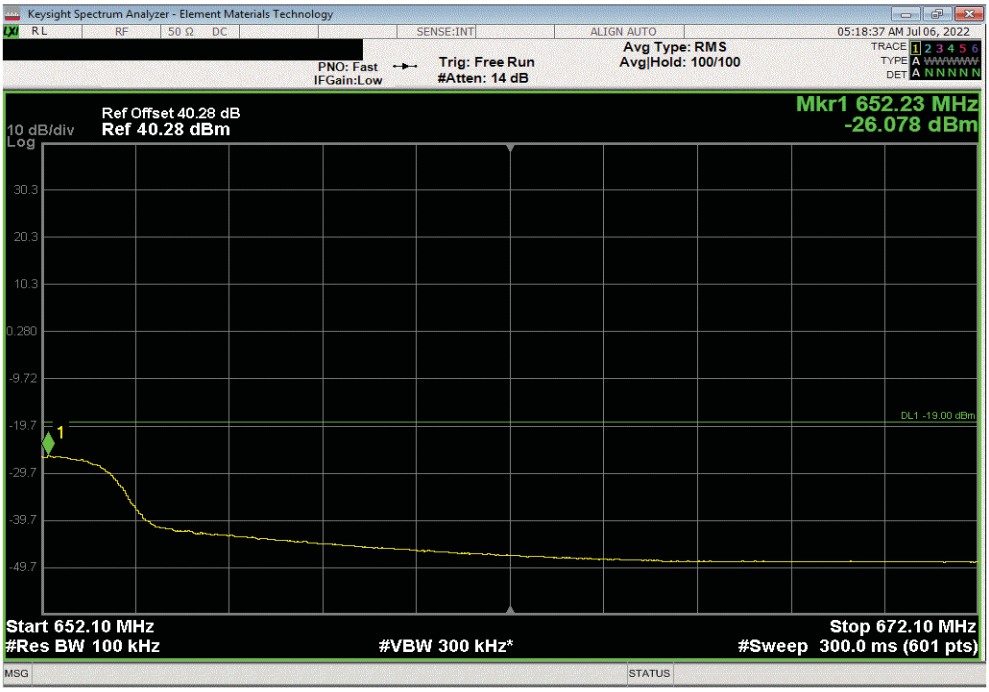
Port 2, LTE, Band n71, 617 MHz - 652 MHz, 15 MHz Bandwidth, NB IoT GB, Low Ch. 624.5 MHz						
	Frequency Range			Max Value (dBM)	Limit < (dBM)	Result
	2			-27.89	-19	Pass



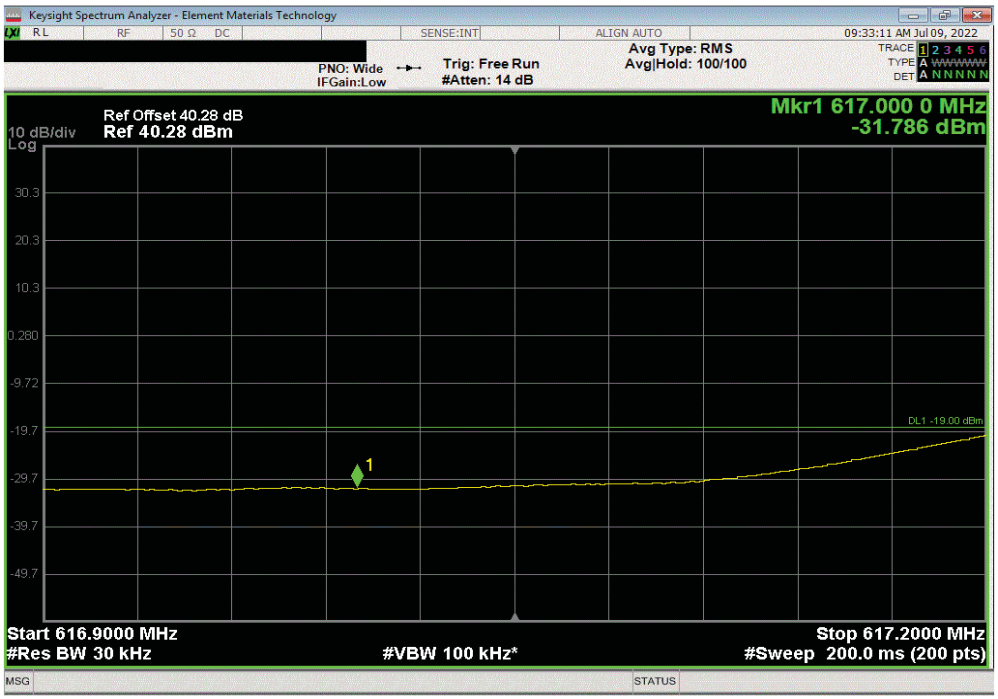
Port 2, LTE, Band n71, 617 MHz - 652 MHz, 15 MHz Bandwidth, NB IoT GB, High Ch. 644.5 MHz						
	Frequency Range			Max Value (dBM)	Limit < (dBM)	Result
	1			-31.03	-19	Pass



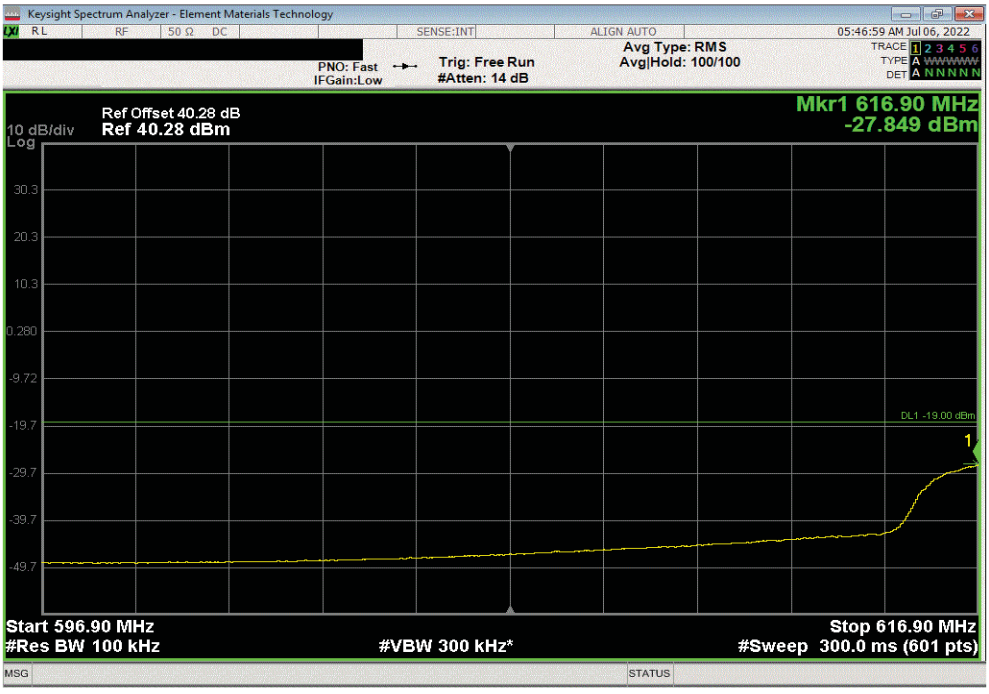
Port 2, LTE, Band n71, 617 MHz - 652 MHz, 15 MHz Bandwidth,NB IoT GB, High Ch. 644.5 MHz						
	Frequency Range			Max Value (dBM)	Limit < (dBM)	Result
	2			-26.08	-19	Pass



Port 2, LTE, Band n71, 617 MHz - 652 MHz, 20 MHz Bandwidth, NB IoT GB, Low Ch. 627 MHz						
	Frequency Range			Max Value (dBM)	Limit < (dBM)	Result
	1			-31.78	-19	Pass

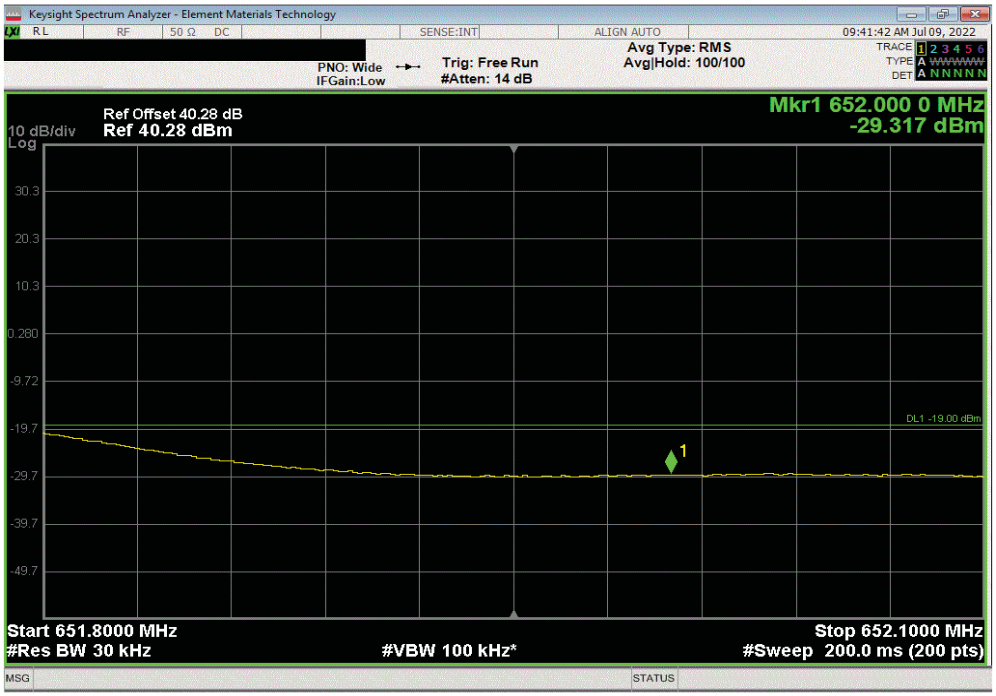


Port 2, LTE, Band n71, 617 MHz - 652 MHz, 20 MHz Bandwidth, NB IoT GB, Low Ch. 627 MHz						
	Frequency Range			Max Value (dBM)	Limit < (dBM)	Result
	2			-27.85	-19	Pass

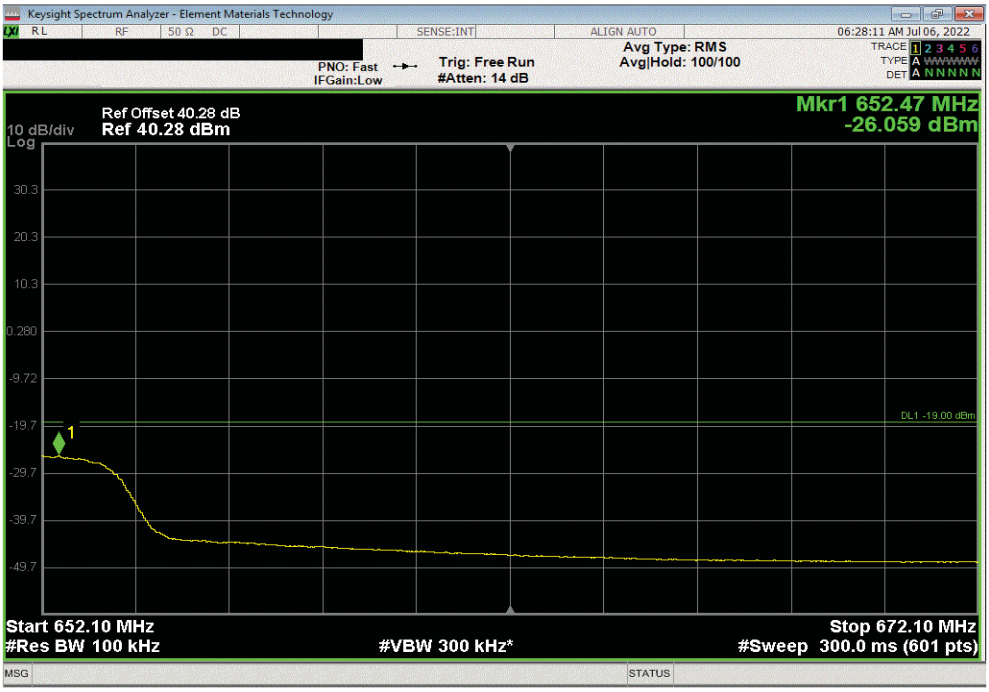


BAND EDGE COMPLIANCE - Band 71 NB IoT GB

Port 2, LTE, Band n71, 617 MHz - 652 MHz, 20 MHz Bandwidth,NB IoT GB, High Ch. 642 MHz						
	Frequency Range			Max Value (dBM)	Limit < (dBM)	Result
	1			-29.32	-19	Pass



Port 2, LTE, Band n71, 617 MHz - 652 MHz, 20 MHz Bandwidth, NB IoT GB, High Ch. 642 MHz						
	Frequency Range			Max Value (dBM)	Limit < (dBM)	Result
	2			-26.06	-19	Pass



BAND EDGE COMPLIANCE Band 85 NB IoT GB

XMit 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 spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

All limits were adjusted by a factor of [-10*log(4)] dB to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911.

Per section 27.53(g) and RSS 130 4.7, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Per FCC 27.53(g) and RSS 130 4.7 requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 27.53(g) and RSS 130 4.7 requires a >30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

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 paragraph 5.7.2i.

BAND EDGE COMPLIANCE Band 85 NB IoT GB

TbtTx 2022.05.02.0 XMit 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:	53.3% RH
Project:	None			Barometric Pres.:	1017 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 losses in the measurement path were accounted for: attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power.

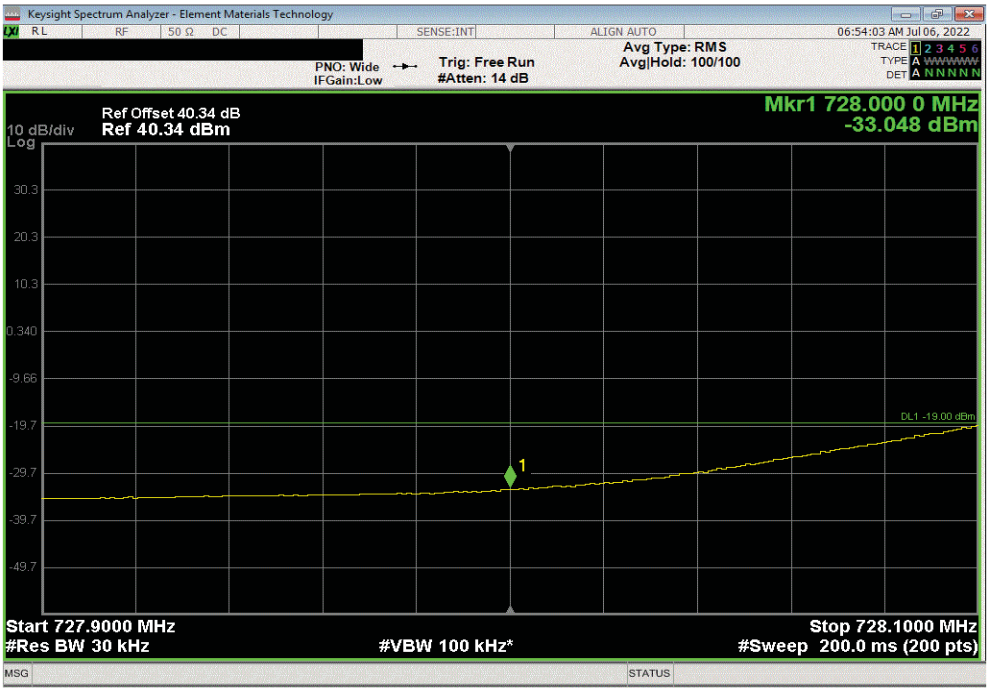
DEVIATIONS FROM TEST STANDARD

None

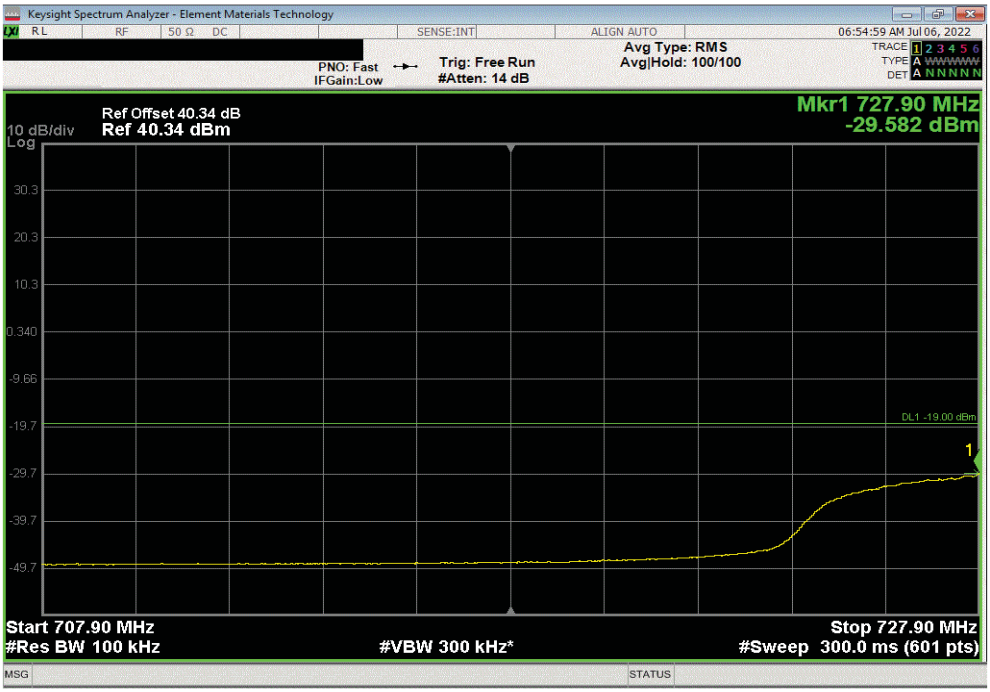
Configuration #	2	Signature

		Frequency Range	Max Value (dBm)	Limit < (dBm)	Result
Port 2, LTE, Band 85, 728 MHz - 746 MHz					
10MHz Bandwidth					
NB IoT GB					
	Low Ch. 733 MHz	1	-33.05	-19	Pass
	Low Ch. 733 MHz	2	-29.582	-19	Pass
	High Ch. 741 MHz	1	-34.23	-19	Pass
	High Ch. 741 MHz	2	-29.412	-19	Pass
Port 2, LTE, Band 85, 728 MHz - 746 MHz					
15MHz Bandwidth					
NB IoT GB					
	Low Ch. 735.5 MHz	1	-33.37	-19	Pass
	Low Ch. 735.5 MHz	2	-28.943	-19	Pass
	High Ch. 738.5 MHz	1	-34.78	-19	Pass
	High Ch. 738.5 MHz	2	-30.41	-19	Pass

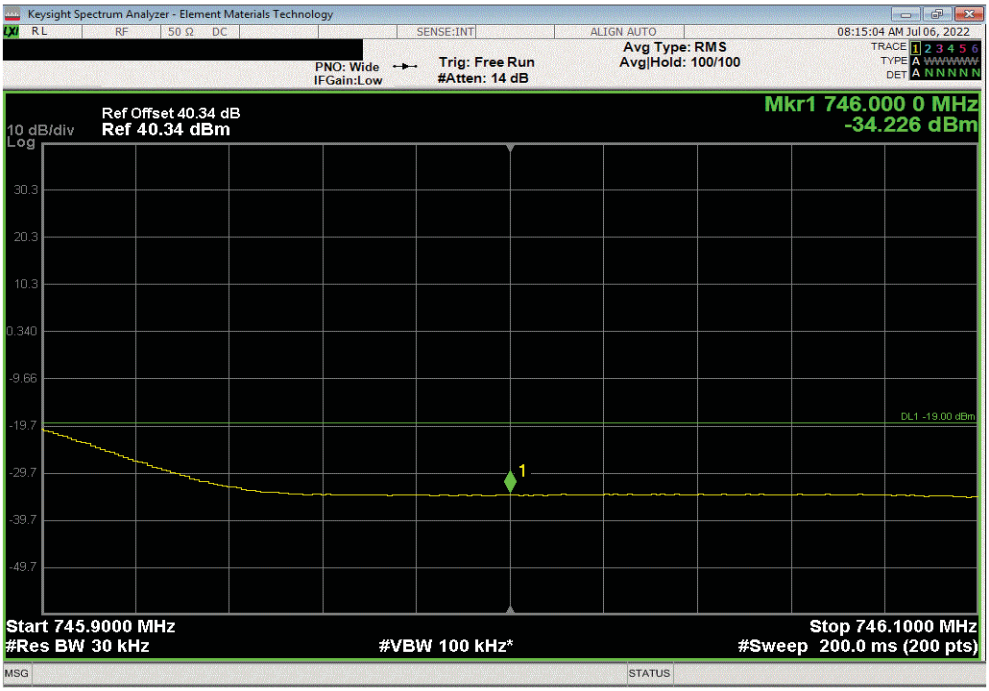
Port 2, LTE, Band 85, 728 MHz - 746 MHz, 10MHz Bandwidth, NB IoT GB, Low Ch. 733 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	1			-33.05	-19	Pass



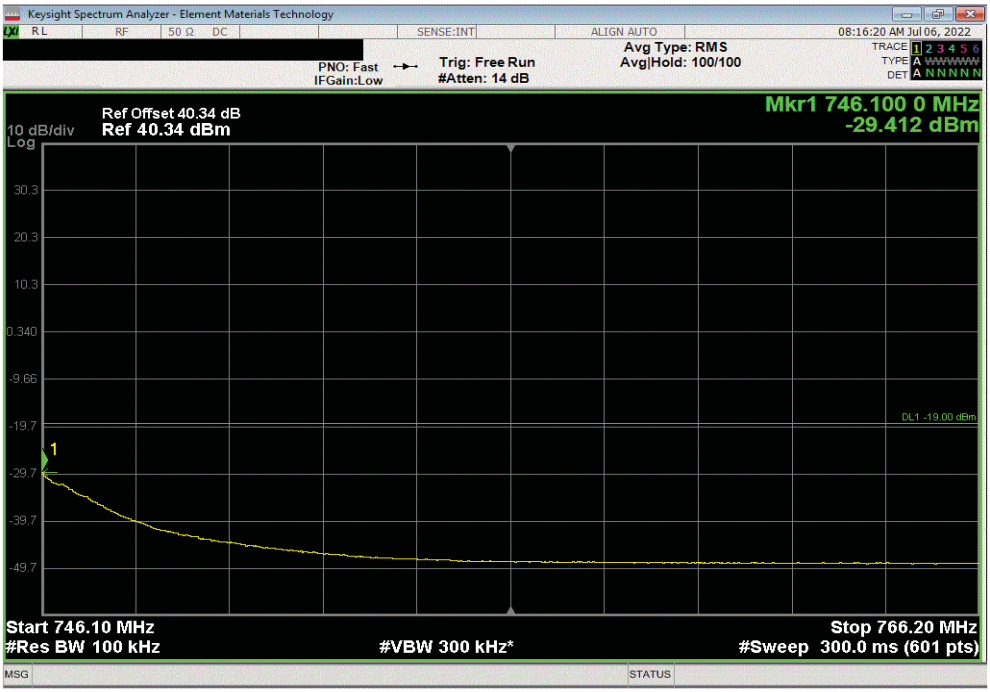
Port 2, LTE, Band 85, 728 MHz - 746 MHz, 10MHz Bandwidth, NB IoT GB, Low Ch. 733 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	2			-29.582	-19	Pass



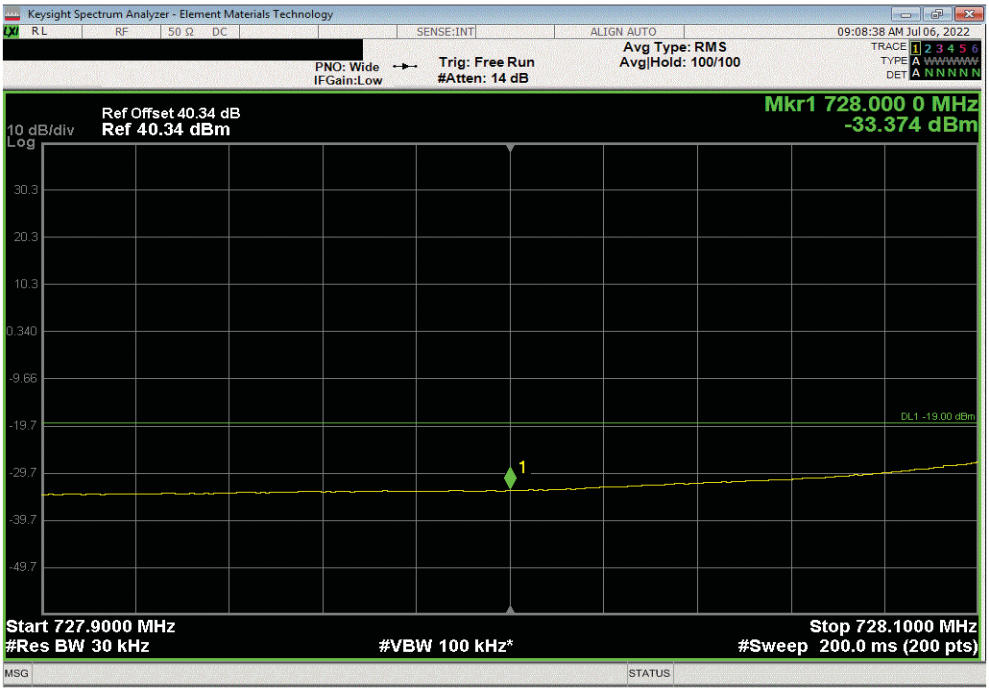
Port 2, LTE, Band 85, 728 MHz - 746 MHz, 10MHz Bandwidth, NB IoT GB, High Ch. 741 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	1			-34.23	-19	Pass



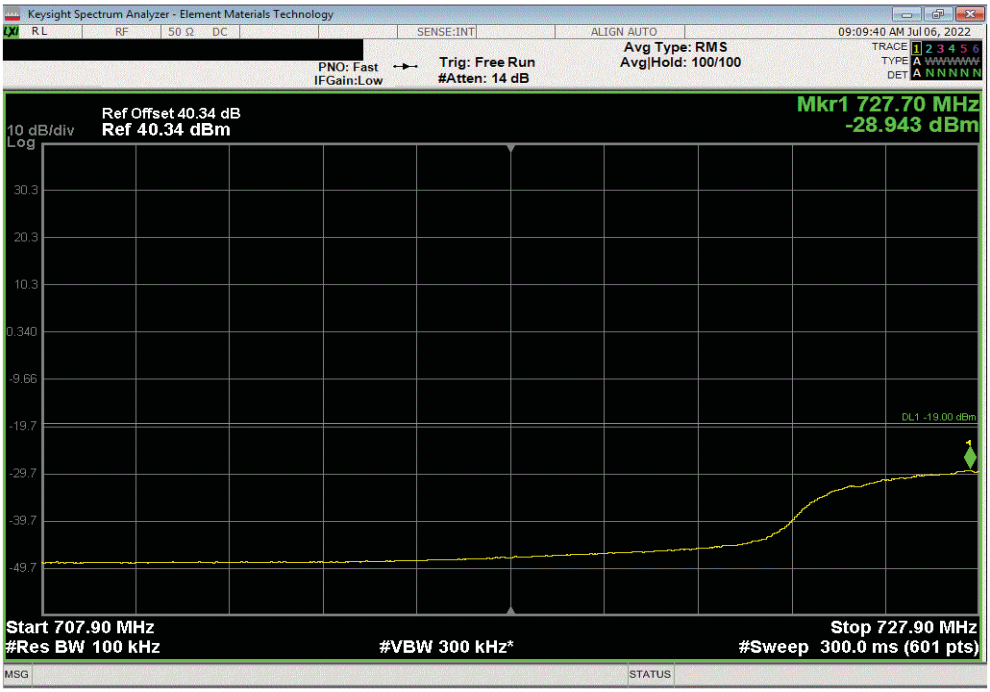
Port 2, LTE, Band 85, 728 MHz - 746 MHz, 10MHz Bandwidth, NB IoT GB, High Ch. 741 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	2			-29.412	-19	Pass



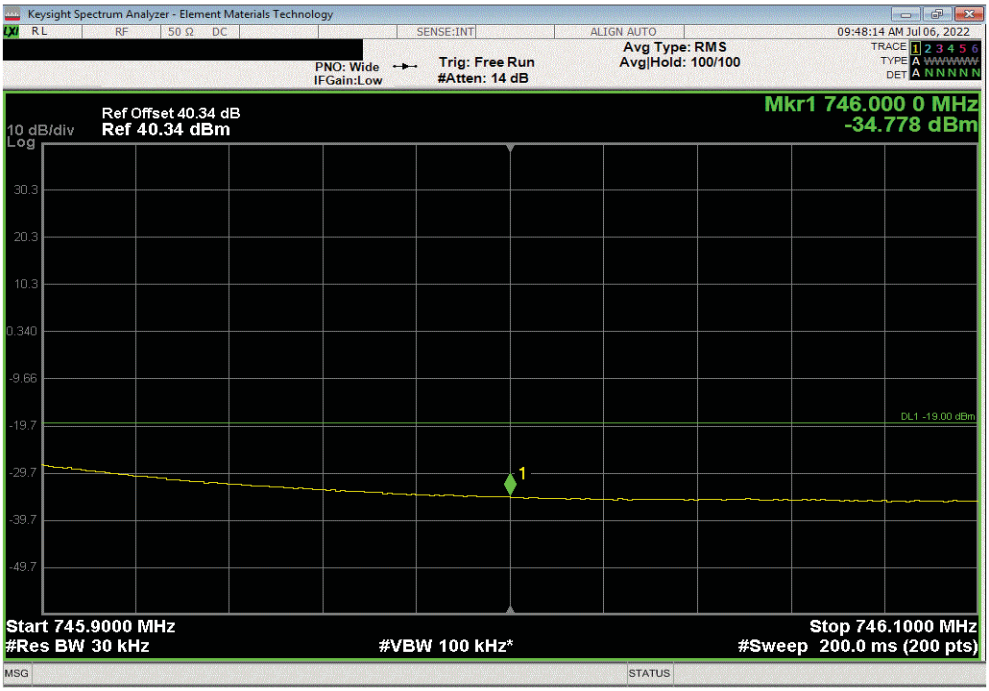
Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15MHz Bandwidth, NB IoT GB, Low Ch. 735.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	1			-33.37	-19	Pass



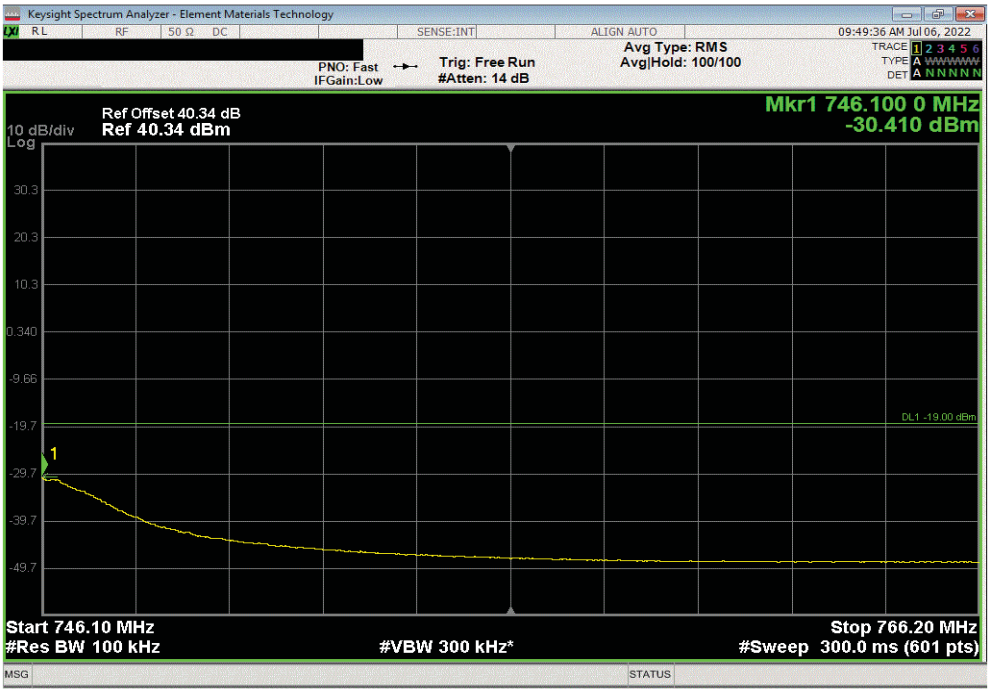
Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15MHz Bandwidth, NB IoT GB, Low Ch. 735.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	2			-28.943	-19	Pass



Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15MHz Bandwidth, NB IoT GB, High Ch. 738.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	1			-34.78	-19	Pass



Port 2, LTE, Band 85, 728 MHz - 746 MHz, 15MHz Bandwidth, NB IoT GB, High Ch. 738.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	2			-30.41	-19	Pass



BAND EDGE COMPLIANCE - Band 71 NB IoT SA

XMit 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 spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

All limits were adjusted by a factor of [-10*log(4)] dB to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911.

Per section 27.53(g) and RSS 130 4.7, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Per FCC 27.53(g) and RSS 130 4.7 requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 27.53(g) and RSS 130 4.7 requires a >30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

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 paragraph 5.7.2i.

BAND EDGE COMPLIANCE - Band 71 NB IoT SA

element

TbtTx 2022.05.02.0 XMit 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	Test Method
FCC 27:2022	ANSI C63.26:2015
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

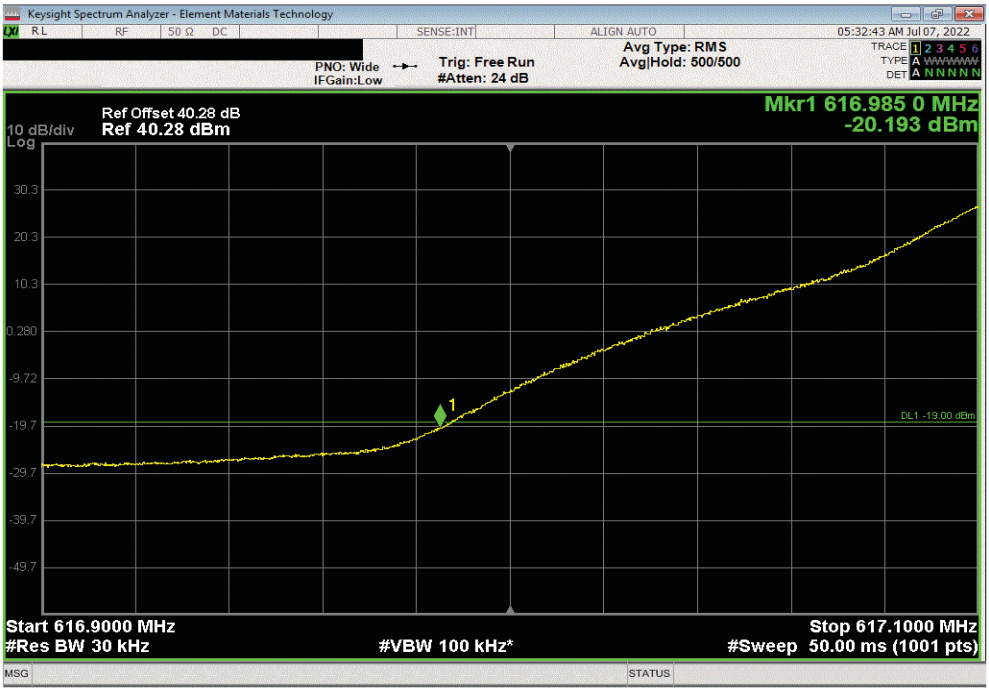
None

Configuration #	2	Signature

		Frequency Range	Max Value (dBm)	Limit < (dBm)	Result
Port 2, LTE, Band 71, 617 MHz - 652 MHz					
	200 kHz Bandwidth				
	Standalone NB-IoT				
	Low Ch. 617.2 MHz	1	-20.19	-19	Pass
	Low Ch. 617.2 MHz	2	-23.82	-19	Pass
	Low Ch. 617.2 MHz	3	-23.82	-19	Pass
	High Ch. 651.8 MHz	1	-24.21	-19	Pass
	High Ch. 651.8 MHz	2	-26.26	-19	Pass
	High Ch. 651.8 MHz	3	-20.3	-19	Pass

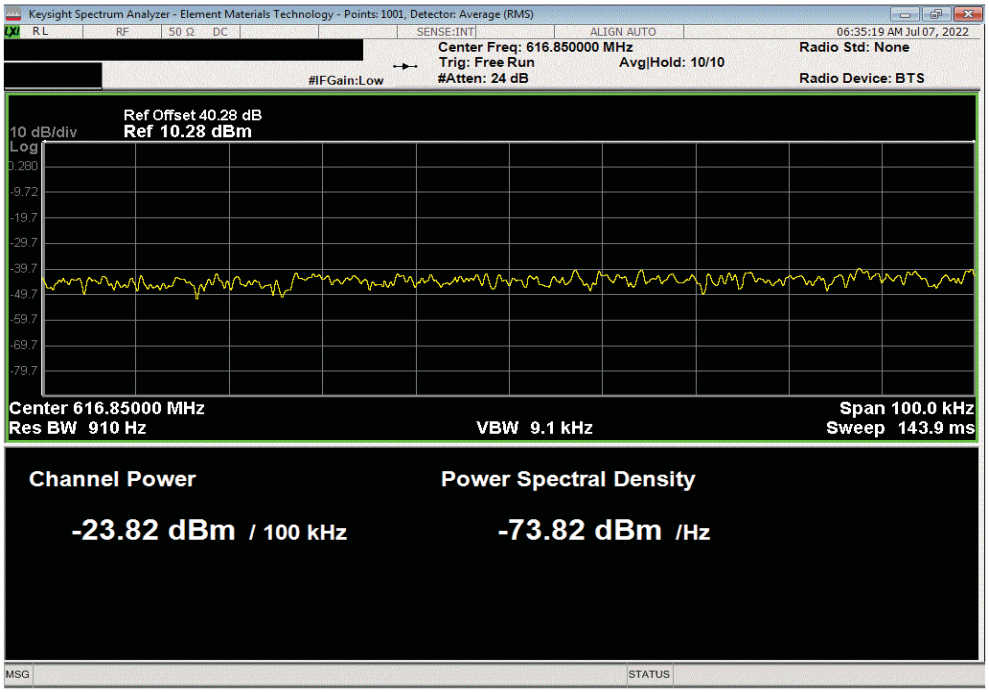
Port 2, LTE, Band 71, 617 MHz - 652 MHz, 200 kHz Bandwidth, Standalone NB-IoT, Low Ch. 617.2 MHz

Frequency Range				Max Value (dBm)	Limit < (dBm)	Result
	1			-20.19	-19	Pass



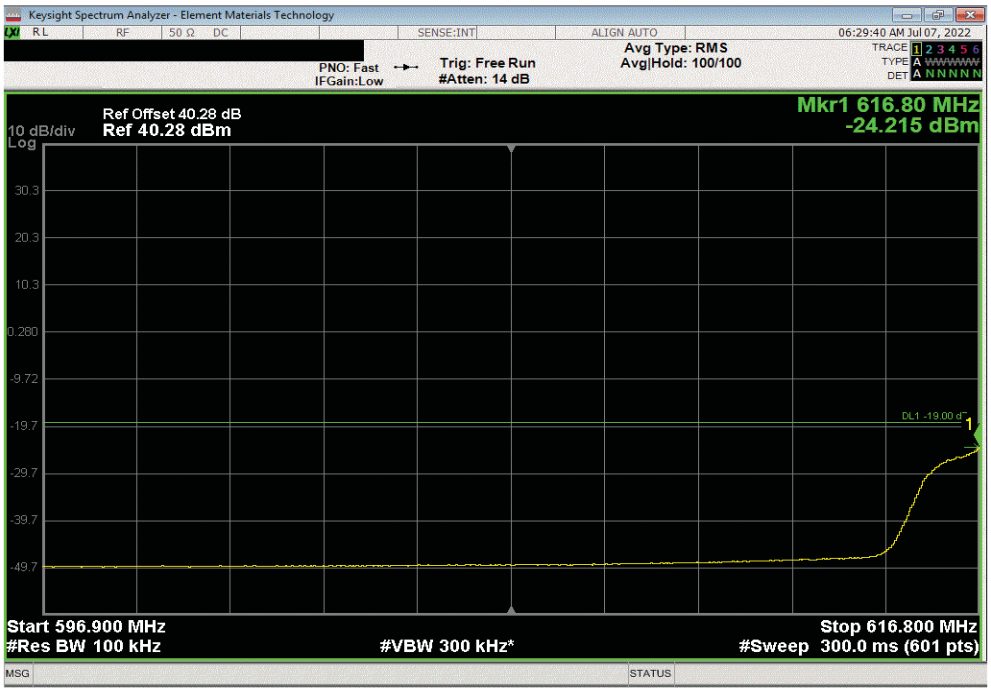
Port 2, LTE, Band n71, 617 MHz - 652 MHz, 200 kHz Bandwidth, Standalone NB-IoT Modulation, Low Ch. 617.2 MHz

Frequency Range				Max Value (dBm)	Limit < (dBm)	Result
	2			-23.82	-19	Pass

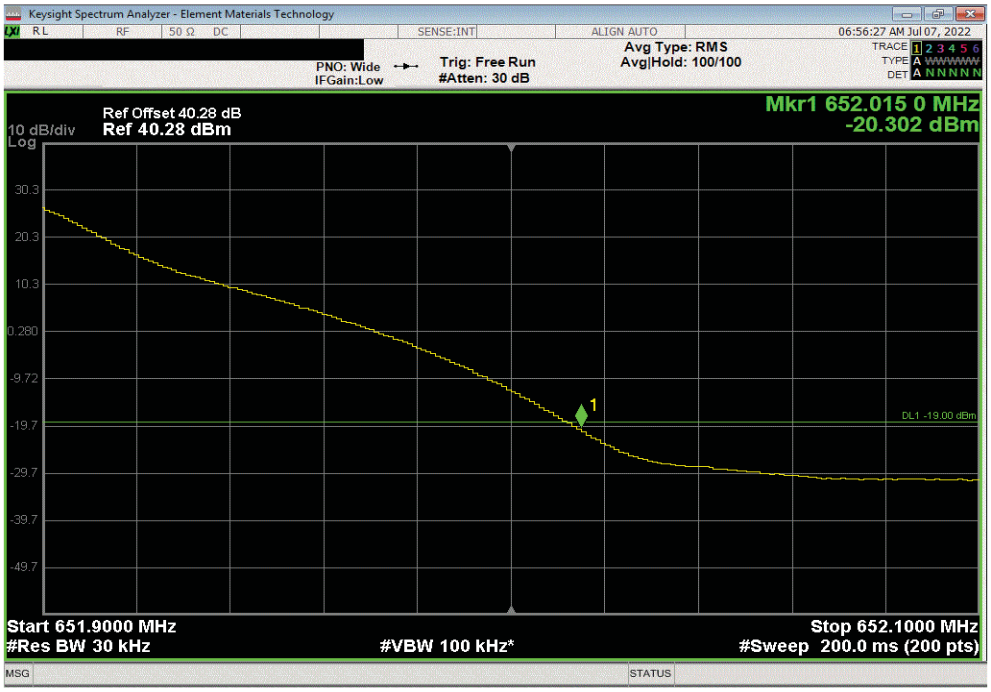


BAND EDGE COMPLIANCE - Band 71 NB IoT SA

Port 2, LTE, Band n71, 617 MHz - 652 MHz, 200 kHz Bandwidth, Standalone NB-IoT Modulation, Low Ch. 617.2 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	3			-24.21	-19	Pass

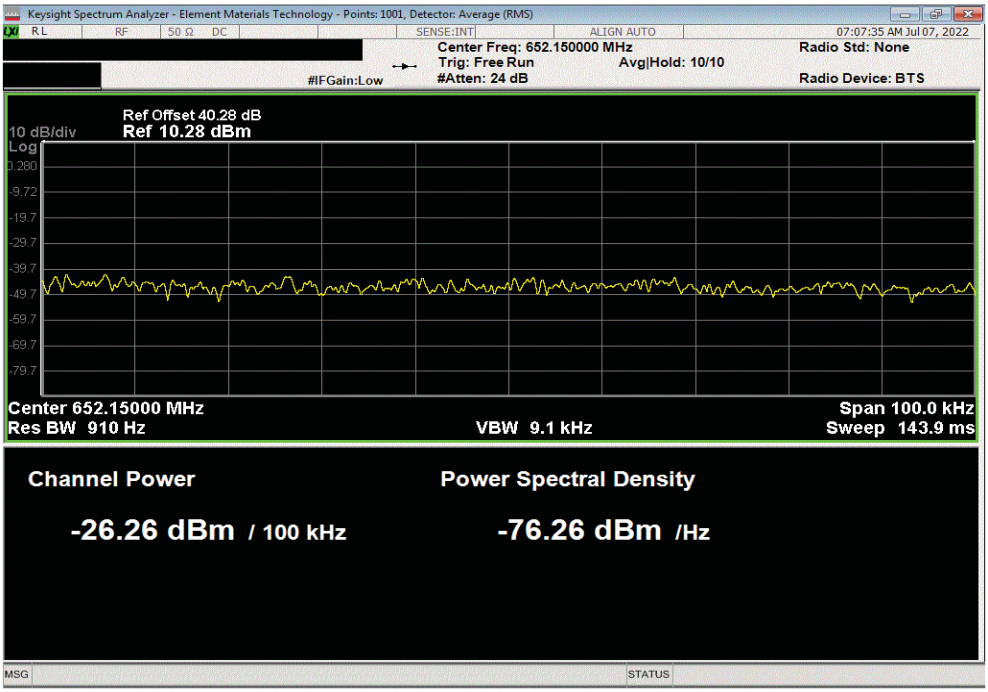


Port 2, LTE, Band 71, 617 MHz - 652 MHz, 200 kHz Bandwidth, Standalone NB-IoT, High Ch. 651.8 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	1			-20.3	-19	Pass



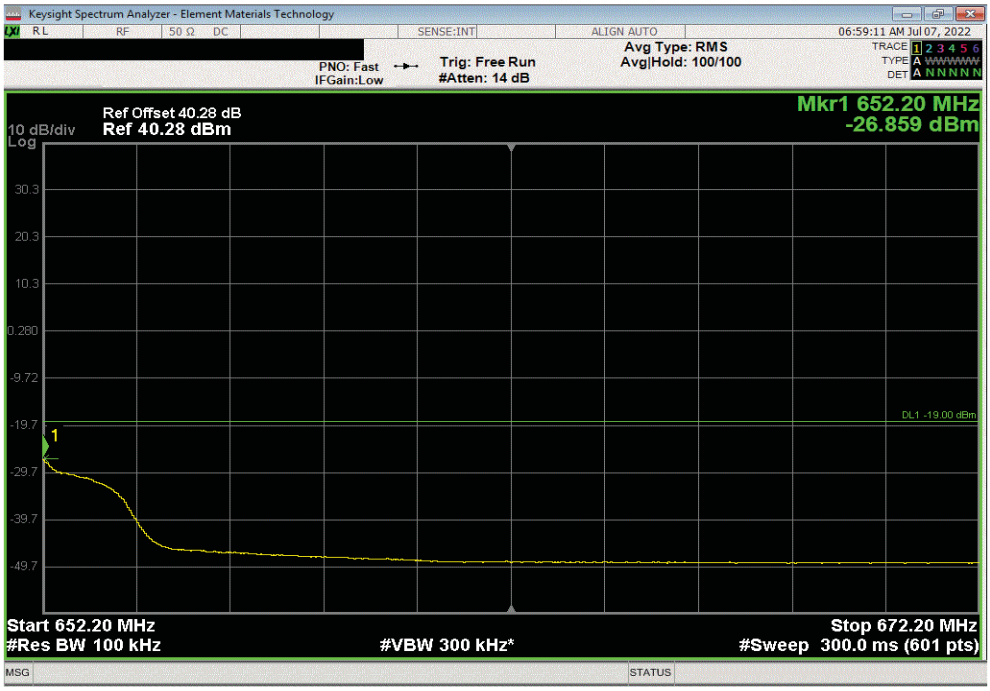
Port 2, LTE, Band 71, 617 MHz - 652 MHz, 200 kHz Bandwidth, Standalone NB-IoT, High Ch. 651.8 MHz

	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	2			-26.26	-19	Pass



Port 2, LTE, Band 71, 617 MHz - 652 MHz, 200 kHz Bandwidth, Standalone NB-IoT, High Ch. 651.8 MHz

	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	3			-26.85	-19	Pass



BAND EDGE COMPLIANCE - Band 85 NB IoT SA

XMit 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 spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

All limits were adjusted by a factor of [-10*log(4)] dB to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911.

Per section 27.53(g) and RSS 130 4.7, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Per FCC 27.53(g) and RSS 130 4.7 requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 27.53(g) and RSS 130 4.7 requires a >30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

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 paragraph 5.7.2i.

BAND EDGE COMPLIANCE - Band 85 NB IoT SA

TbtTx 2022.05.02.0 XMit 2022.02.07.0

EUT:	AHLOB			Work Order:	NOKI0043
Serial Number:	YK220900029			Date:	13-Jul-22
Customer:	Nokia Solutions and Networks			Temperature:	21.4 °C
Attendees:	Mitchell Hill, John Rattanavong			Humidity:	51.7% RH
Project:	None			Barometric Pres.:	1016 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 losses in the measurement path were accounted for: attenuators, cables, DC block and filter when in use. The carriers were enabled at maximum power.

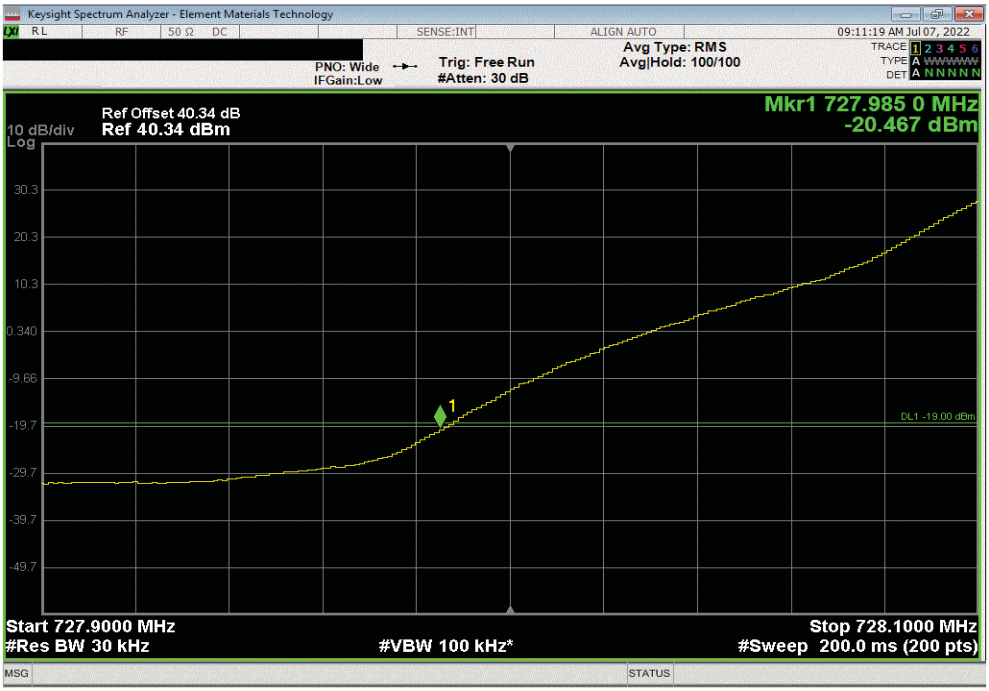
DEVIATIONS FROM TEST STANDARD

None

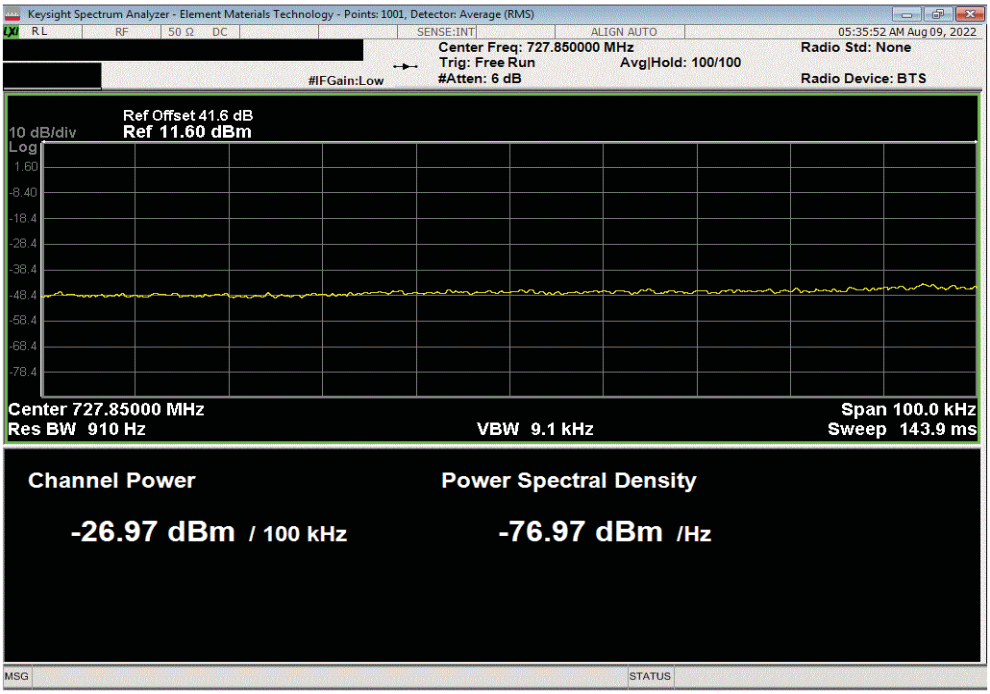
Configuration #	2	Signature

	Frequency Range	Max Value (dBm)	Limit < (dBm)	Result
Port 2, LTE, Band 85, 728 MHz - 746 MHz				
200 kHz Bandwidth				
Standalone NB-IoT				
Low Ch. 728.2 MHz	1	-20.47	-19	Pass
Low Ch. 728.2 MHz	2	-26.97	-19	Pass
Low Ch. 728.2 MHz	3	-28.32	-19	Pass
High Ch. 745.8 MHz	1	-20.27	-19	Pass
High Ch. 745.8 MHz	2	-25.59	-19	Pass
High Ch. 745.8 MHz	3	-27.5	-19	Pass

Port 2, LTE, Band n85, 728 MHz - 746 MHz, 200 kHz Bandwidth, Standalone NB-IoT, Low Ch. 728.2 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	1			-20.47	-19	Pass



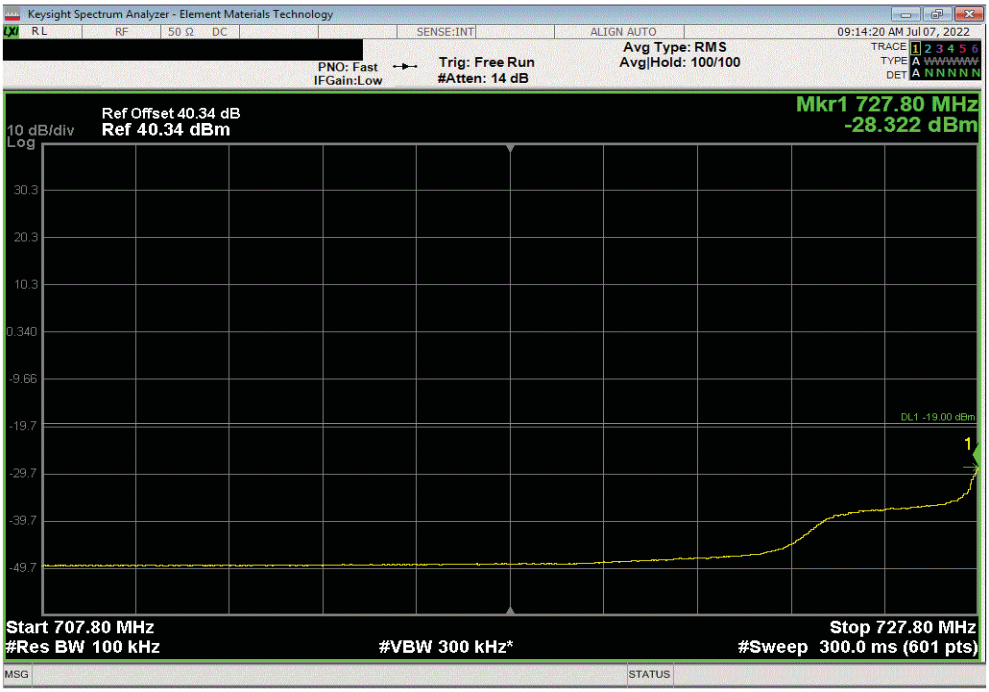
Port 2, LTE, Band n85, 728 MHz - 746 MHz, 200 kHz Bandwidth, Standalone NB-IoT, Low Ch. 728.2 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	2			-26.97	-19	Pass



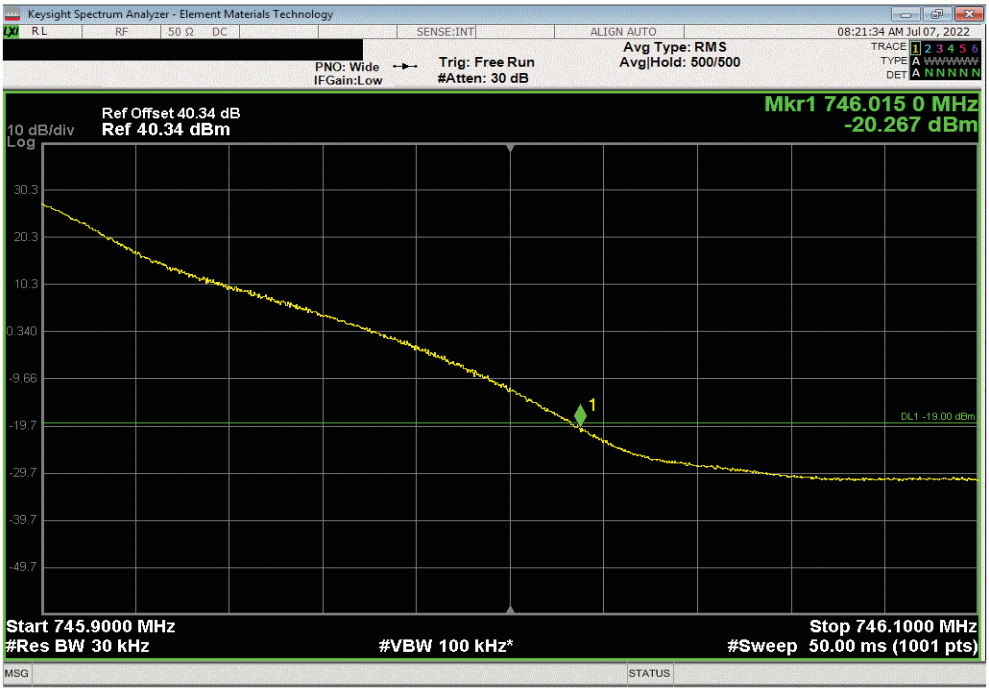
BAND EDGE COMPLIANCE - Band 85 NB IoT SA

Port 2, LTE, Band n85, 728 MHz - 746 MHz, 200 kHz Bandwidth, Standalone NB-IoT, Low Ch. 728.2 MHz

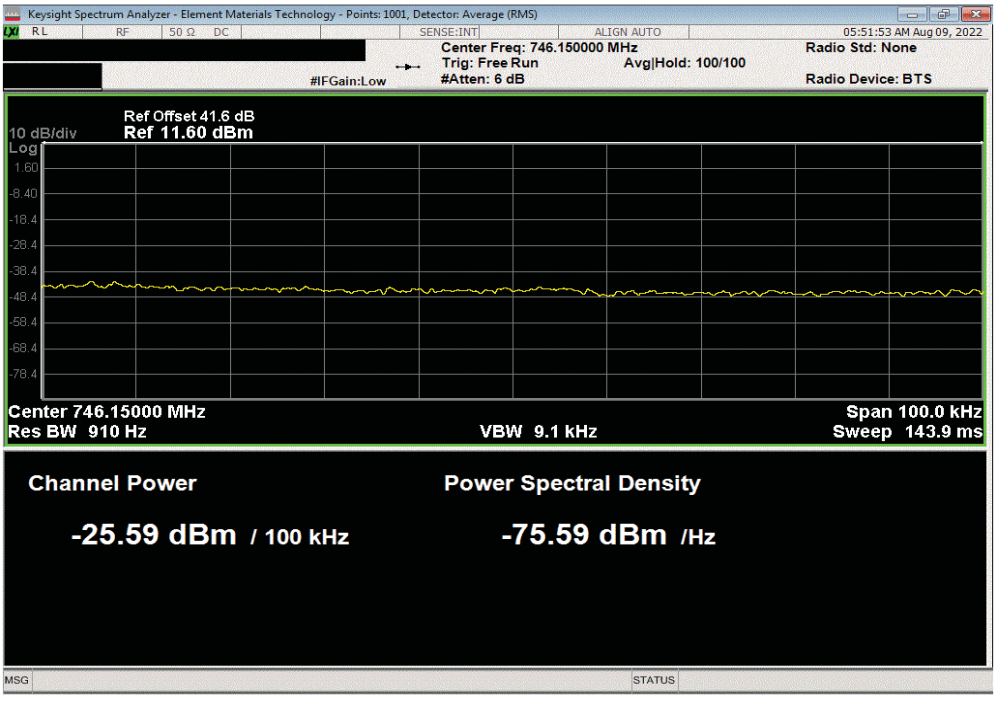
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	3			-28.322	-19	Pass



Port 2, LTE, Band n85, 728 MHz - 746 MHz, 200 kHz Bandwidth, Standalone NB-IoT, High Ch. 745.8 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	1			-20.27	-19	Pass

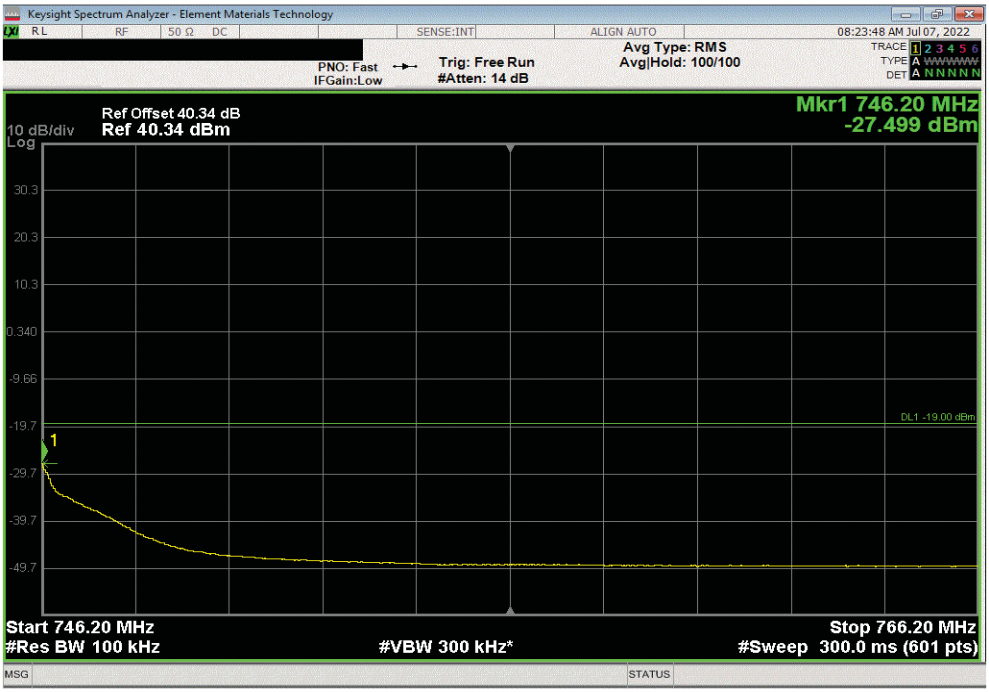


Port 2, LTE, Band n85, 728 MHz - 746 MHz, 200 kHz Bandwidth, Standalone NB-IoT, High Ch. 745.8 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	2			-25.59	-19	Pass



BAND EDGE COMPLIANCE - Band 85 NB IoT SA

Port 2, LTE, Band n85, 728 MHz - 746 MHz, 200 kHz Bandwidth, Standalone NB-IoT, High Ch. 745.8 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	3			-27.499	-19	Pass



BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

XMit 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 spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge. All limits were adjusted by a factor of [-10*log(4)] dB to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911.

Per section 27.53(g) and RSS-130 4.7, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Per FCC 27.53(g) and RSS 130 4.7 requires a $\geq$100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 27.53(g) and RSS 130 4.7 requires a $\geq$30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

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 paragraph 5.7.2i.

Multi-carrier test cases have been developed as shown below:
Multi-Carrier Test Case 1: 3GPP Band 71 Multicarriers _Three LTE5 carriers using two carriers (with minimum spacing between carrier frequencies) at the lower band edge (619.5 & 624.5MHz) and a third carrier with maximum spacing between the other two carrier frequencies (649.5MHz) at the upper band edge. The LTE5 channel bandwidth was selected to maximize carrier power spectral density. The carriers are operated at maximum power for a total port power of 80 watts (~26.6W/Band 71 carriers). 3GPP Band 85 carrier is not enabled.

Multi-Carrier Test Case 2: 3GPP Band 71 Multicarriers_ One LTE 20MHz carrier (627.0 MHz) and one LTE 15MHz carrier (644.5MHz) cover all of the Band 71 bandwidth. The largest channel bandwidth is selected to maximize carrier OBW. The carriers are operated at maximum power for a total port power of 80 watts (~40W/Band 71 carriers). 3GPP Band 85 carrier is not enabled.

Multi-Carrier Test Case 3: 3GPP Band 85 Multicarrier_Two LTE5 carriers using two carriers (with maximum spacing between carrier frequencies) at the lower band edge (730.5MHz) and at the upper band edge (743.5MHz). The LTE5 channel bandwidth was selected to maximize carrier power spectral density. The carriers are operated at maximum power for a total port power of 80 watts (~40W/Band 85 carrier). 3GPP Band 71 carrier is not enabled.

Multi-Carrier Test Case 4: 3GPP Band 71 and Band 85 Multicarrier Multiband: Three LTE 5MHz carriers using two carriers (with minimum spacing between carrier frequencies) at the Band 71 lower band edge (619.5 & 624.5MHz) and a third carrier with maximum spacing between the other two carrier frequencies (743.5MHz) at the Band 85 upper band edge. The smallest channel bandwidth was selected to maximize carrier power spectral density. The carriers were operated at maximum power (~26.6W/ Band 71 carrier and ~26.6W Band 85 carrier) for a total port power of 80 watts.

BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

element

TbiTx 2022.05.02.0 XMit 2022.02.07.0

EUT:	AHLOB	Work Order:	NOKI0043
Serial Number:	YK220900029	Date:	11-Jul-22
Customer:	Nokia Solutions and Networks	Temperature:	20.7 °C
Attendees:	Mitchell Hill, John Rattanavong	Humidity:	52.8% RH
Project:	None	Barometric Pres.:	1012 mbar
Tested by:	Marty Martin 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 losses in the measurement path were accounted for: attenuators, cables, DC block and filter when in use. Band 71 and Band 85 carriers were operating at maximum power in each applicable test case to achieve a total port power of 80 watts.

DEVIATIONS FROM TEST STANDARD

None

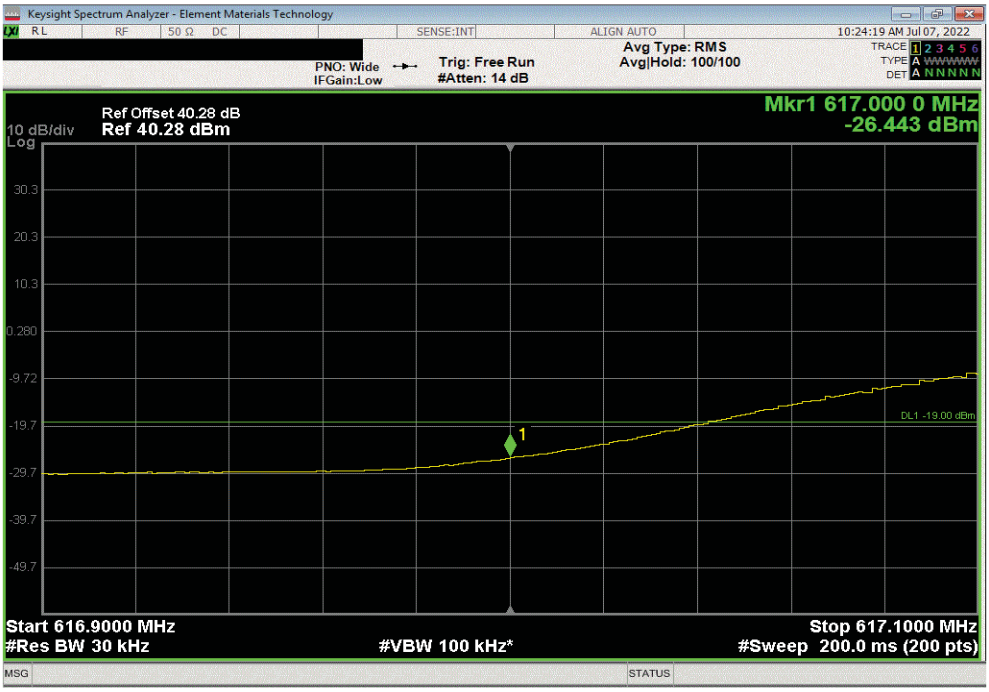
Configuration #	2	Signature

		Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
LTE Multicarrier Multiband						
	Port 2					
	QPSK Modulation					
	Test Case 1, LTE5 Carrier 1, 619.5 MHz	1	617	-26.44	-19	Pass
	Test Case 1, LTE5 Carrier 1, 619.5 MHz	2	616.9	-24.43	-19	Pass
	Test Case 1, LTE5 Carrier 3, 649.5 MHz	1	652	-27.75	-19	Pass
	Test Case 1, LTE5 Carrier 3, 649.5 MHz	2	652.1	-28.04	-19	Pass
	Test Case 2, LTE20 Carrier 1, 627 MHz	1	617	-31.65	-19	Pass
	Test Case 2, LTE20 Carrier 1, 627 MHz	2	616.9	-27.29	-19	Pass
	Test Case 2, LTE15 Carrier 2, 644.5 MHz	1	652	-28.83	-19	Pass
	Test Case 2, LTE15 Carrier 2, 644.5 MHz	2	652.1	-26.23	-19	Pass
	Test Case 3, LTE5 Carrier 1, 730.5 MHz	1	728	-26.1	-19	Pass
	Test Case 3, LTE5 Carrier 1, 730.5 MHz	2	727.9	-27.92	-19	Pass
	Test Case 3, LTE5 Carrier 2, 743.5 MHz	1	746	-26.81	-19	Pass
	Test Case 3, LTE5 Carrier 2, 743.5 MHz	2	746.1	-28.52	-19	Pass
	Test Case 4, LTE5 Band 85 Carrier 1, 743.5 M	1	746	-23.75	-19	Pass
	Test Case 4, LTE5 Band 85 Carrier 1, 743.5 M	2	746.1	-20.82	-19	Pass
	Test Case 4, LTE5 Band 71 Carrier 1, 619.5 M	1	617	-24.81	-19	Pass
	Test Case 4, LTE5 Band 71 Carrier 1, 619.5 M	2	616.9	-22.05	-19	Pass
	16-QAM Modulation					
	Test Case 1, LTE5 Carrier 1, 619.5 MHz	1	617	-26.86	-19	Pass
	Test Case 1, LTE5 Carrier 1, 619.5 MHz	2	616.9	-24.97	-19	Pass
	Test Case 1, LTE5 Carrier 3, 649.5 MHz	1	652	-27.7	-19	Pass
	Test Case 1, LTE5 Carrier 3, 649.5 MHz	2	652.1	-28.34	-19	Pass
	Test Case 2, LTE20 Carrier 1, 627 MHz	1	617	-31.92	-19	Pass
	Test Case 2, LTE20 Carrier 1, 627 MHz	2	616.9	-27.89	-19	Pass
	Test Case 2, LTE15 Carrier 2, 644.5 MHz	1	652	-29.77	-19	Pass
	Test Case 2, LTE15 Carrier 2, 644.5 MHz	2	652.1	-27.4	-19	Pass
	Test Case 3, LTE5 Carrier 1, 730.5 MHz	1	728	-26.64	-19	Pass
	Test Case 3, LTE5 Carrier 1, 730.5 MHz	2	727.9	-28.74	-19	Pass
	Test Case 3, LTE5 Carrier 2, 743.5 MHz	1	746	-27.63	-19	Pass
	Test Case 3, LTE5 Carrier 2, 743.5 MHz	2	746.1	-29.1	-19	Pass
	Test Case 4, LTE5 Band 85 Carrier 1, 743.5 M	1	746	-23.89	-19	Pass
	Test Case 4, LTE5 Band 85 Carrier 1, 743.5 M	2	746.1	-20.63	-19	Pass
	Test Case 4, LTE5 Band 71 Carrier 1, 619.5 M	1	617	-25.17	-19	Pass
	Test Case 4, LTE5 Band 71 Carrier 1, 619.5 M	2	616.9	-22.17	-19	Pass

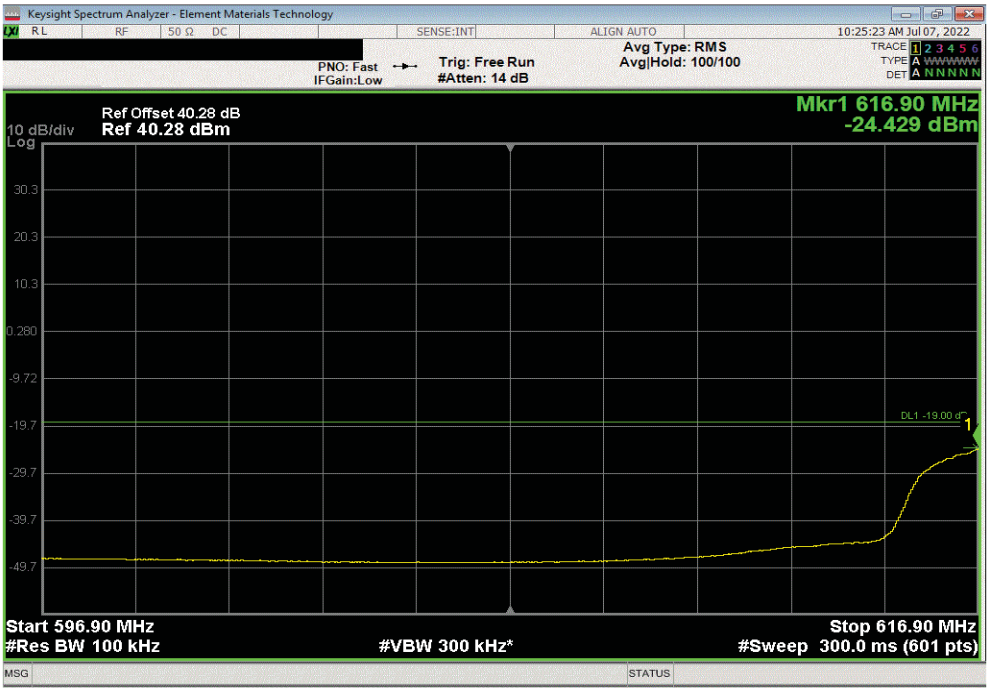
64-QAM Modulation					
Test Case 1, LTE5 Carrier 1, 619.5 MHz	1	617	-26.92	-19	Pass
Test Case 1, LTE5 Carrier 1, 619.5 MHz	2	616.9	-24.54	-19	Pass
Test Case 1, LTE5 Carrier 3, 649.5 MHz	1	652	-27.61	-19	Pass
Test Case 1, LTE5 Carrier 3, 649.5 MHz	2	652.1	-28.05	-19	Pass
Test Case 2, LTE20 Carrier 1, 627 MHz	1	617	-32.07	-19	Pass
Test Case 2, LTE20 Carrier 1, 627 MHz	2	616.9	-27.9	-19	Pass
Test Case 2, LTE15 Carrier 2, 644.5 MHz	1	652	-29.6	-19	Pass
Test Case 2, LTE15 Carrier 2, 644.5 MHz	2	652.1	-27.3	-19	Pass
Test Case 3, LTE5 Carrier 1, 730.5 MHz	1	728	-27.15	-19	Pass
Test Case 3, LTE5 Carrier 1, 730.5 MHz	2	727.9	-28.42	-19	Pass
Test Case 3, LTE5 Carrier 2, 743.5 MHz	1	746	-27.11	-19	Pass
Test Case 3, LTE5 Carrier 2, 743.5 MHz	2	746.1	-28.26	-19	Pass
Test Case 4, LTE5 Band 85 Carrier 1, 743.5 M	1	746	-23.91	-19	Pass
Test Case 4, LTE5 Band 85 Carrier 1, 743.5 M	2	746.27	-20.78	-19	Pass
Test Case 4, LTE5 Band 71 Carrier 1, 619.5 M	1	617	-25.16	-19	Pass
Test Case 4, LTE5 Band 71 Carrier 1, 619.5 M	2	616.9	-21.89	-19	Pass
256-QAM Modulation					
Test Case 1, LTE5 Carrier 1, 619.5 MHz	1	617	-27.31	-19	Pass
Test Case 1, LTE5 Carrier 1, 619.5 MHz	2	616.9	-24.72	-19	Pass
Test Case 1, LTE5 Carrier 3, 649.5 MHz	1	652	-27.95	-19	Pass
Test Case 1, LTE5 Carrier 3, 649.5 MHz	2	652.1	-28.52	-19	Pass
Test Case 2, LTE20 Carrier 1, 627 MHz	1	617	-35.01	-19	Pass
Test Case 2, LTE20 Carrier 1, 627 MHz	2	616.9	-32.67	-19	Pass
Test Case 2, LTE15 Carrier 2, 644.5 MHz	1	652	-42.03	-19	Pass
Test Case 2, LTE15 Carrier 2, 644.5 MHz	2	652.1	-36.75	-19	Pass
Test Case 3, LTE5 Carrier 1, 730.5 MHz	1	728	-26.07	-19	Pass
Test Case 3, LTE5 Carrier 1, 730.5 MHz	2	727.9	-28.77	-19	Pass
Test Case 3, LTE5 Carrier 2, 743.5 MHz	1	746	-26.54	-19	Pass
Test Case 3, LTE5 Carrier 2, 743.5 MHz	2	746.1	-28.54	-19	Pass
Test Case 4, LTE5 Band 85 Carrier 1, 743.5 M	1	746	-24.1	-19	Pass
Test Case 4, LTE5 Band 85 Carrier 1, 743.5 M	2	746.1	-20.59	-19	Pass
Test Case 4, LTE5 Band 71 Carrier 1, 619.5 M	1	617	-25.03	-19	Pass
Test Case 4, LTE5 Band 71 Carrier 1, 619.5 M	2	616.9	-22.07	-19	Pass

BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 1, LTE5 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		617	-26.44	-19	Pass

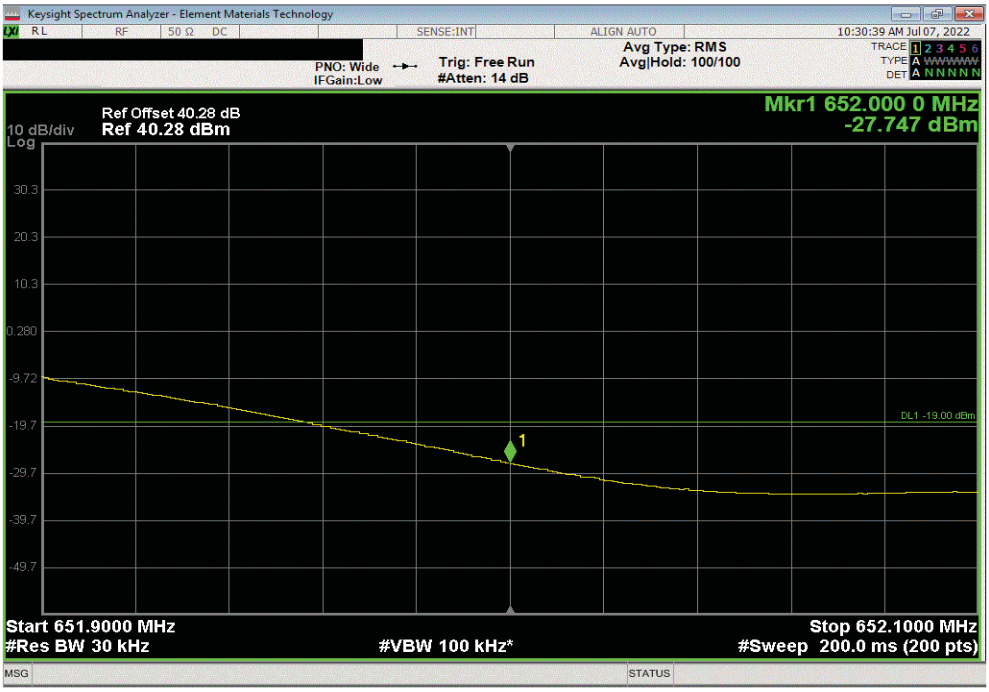


LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 1, LTE5 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		616.9	-24.43	-19	Pass

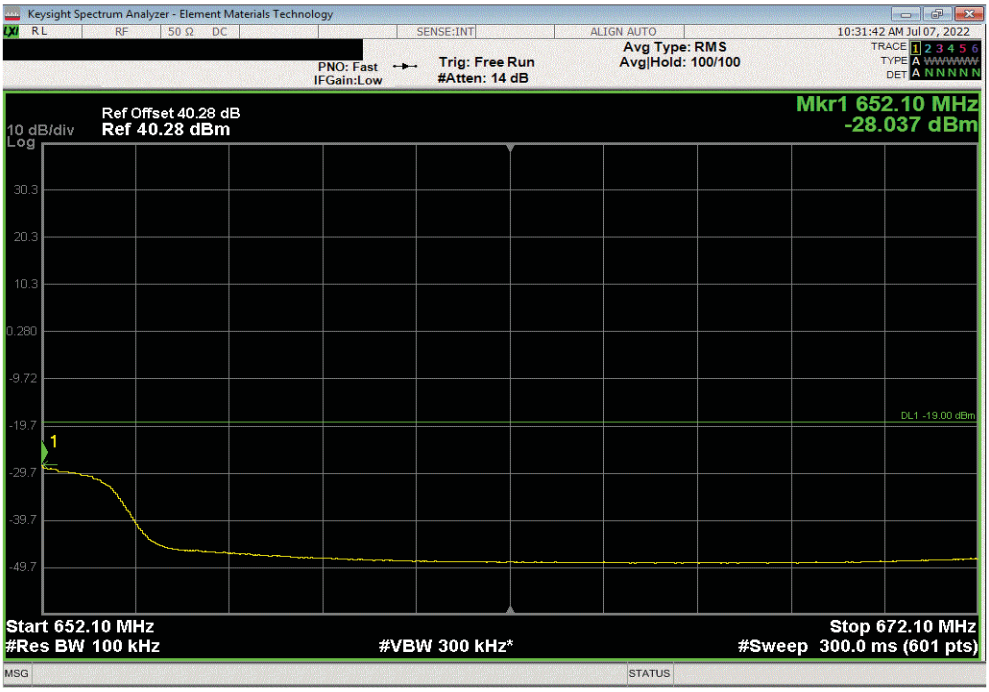


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 1, LTE5 Carrier 3, 649.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		652	-27.75	-19	Pass

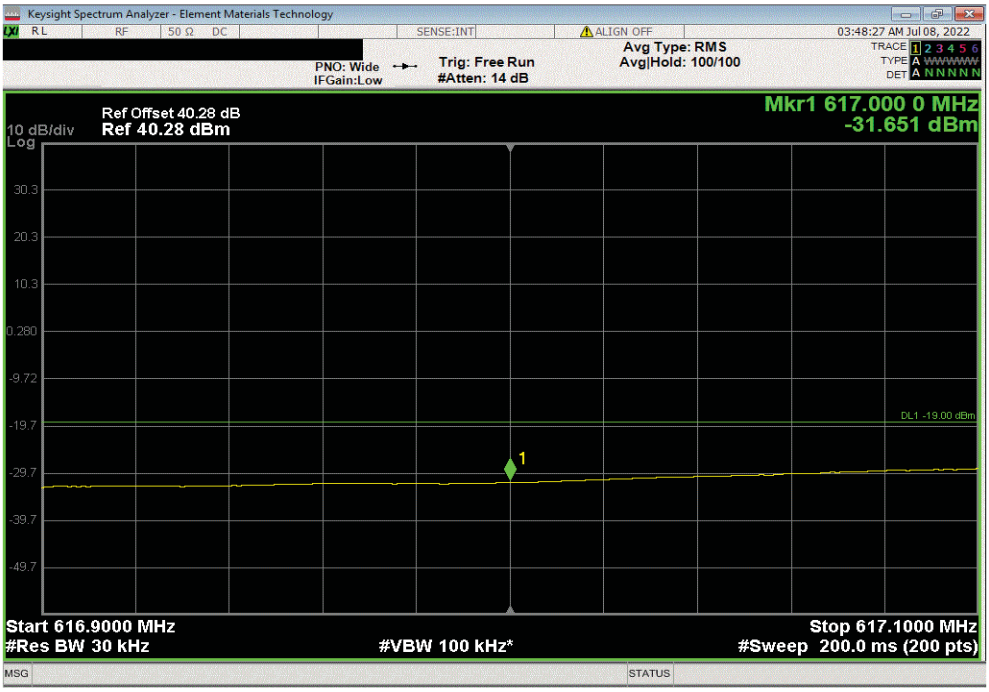


LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 1, LTE5 Carrier 3, 649.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		652.1	-28.04	-19	Pass

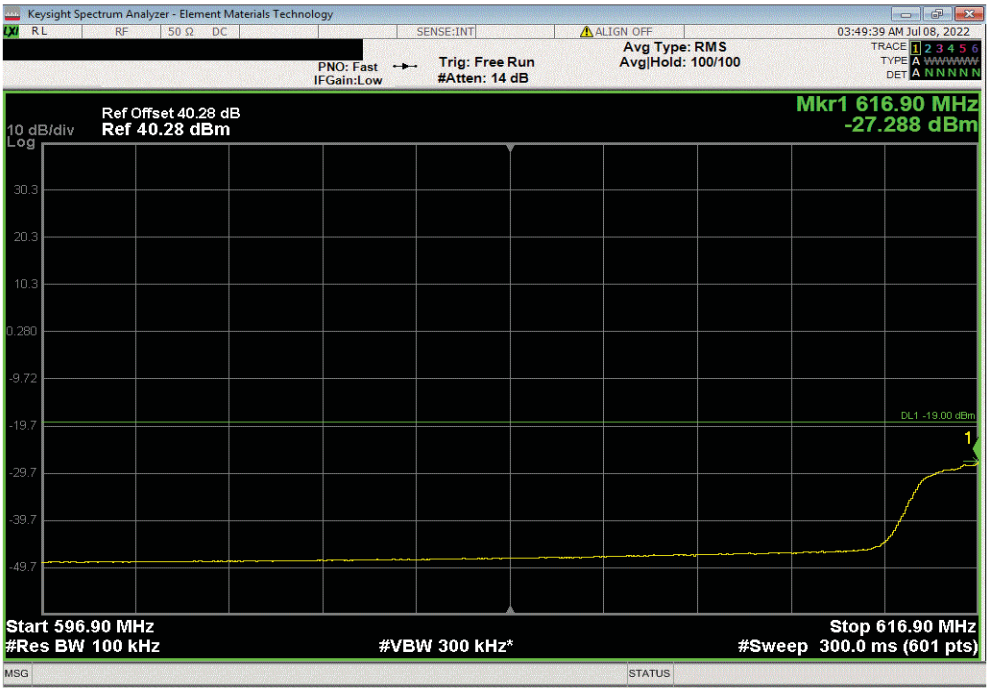


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 2, LTE20 Carrier 1, 627 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		617	-31.65	-19	Pass

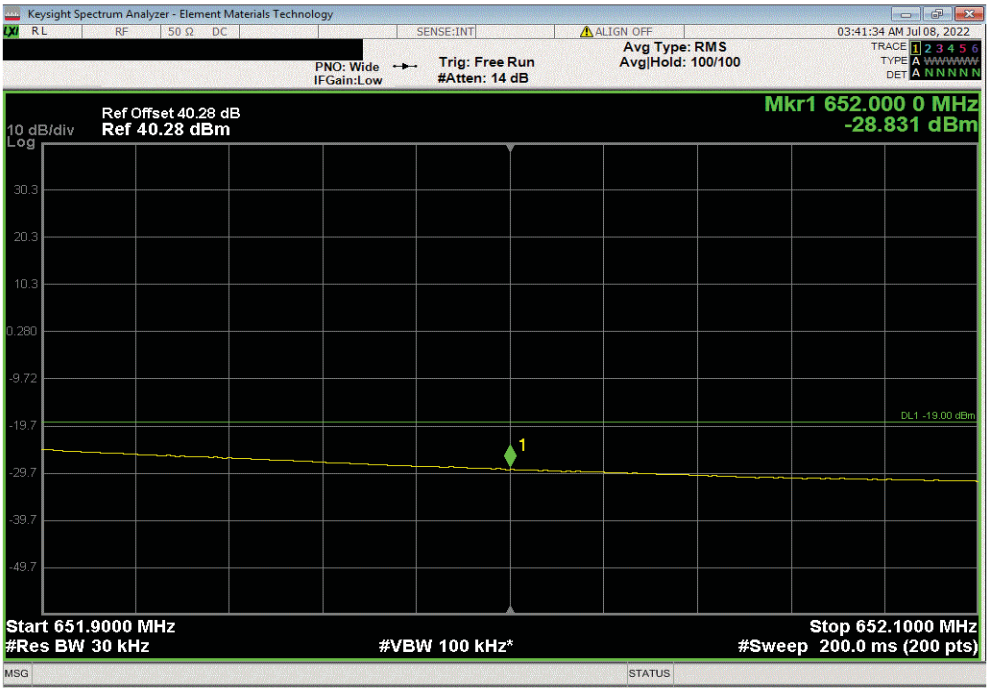


LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 2, LTE20 Carrier 1, 627 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		616.9	-27.29	-19	Pass

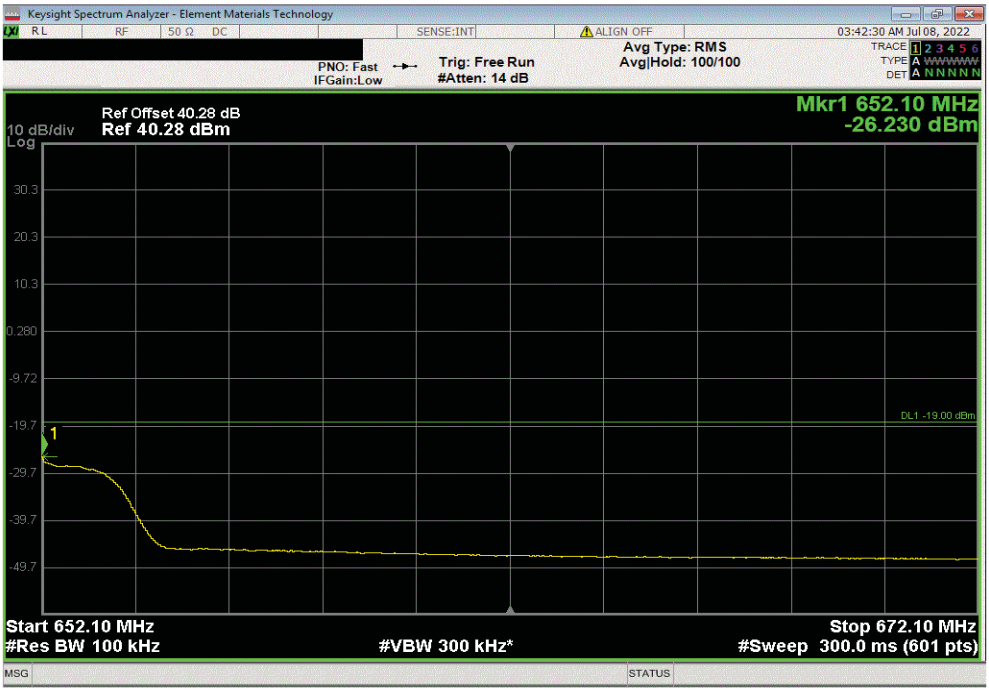


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 2, LTE15 Carrier 2, 644.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		652	-28.83	-19	Pass

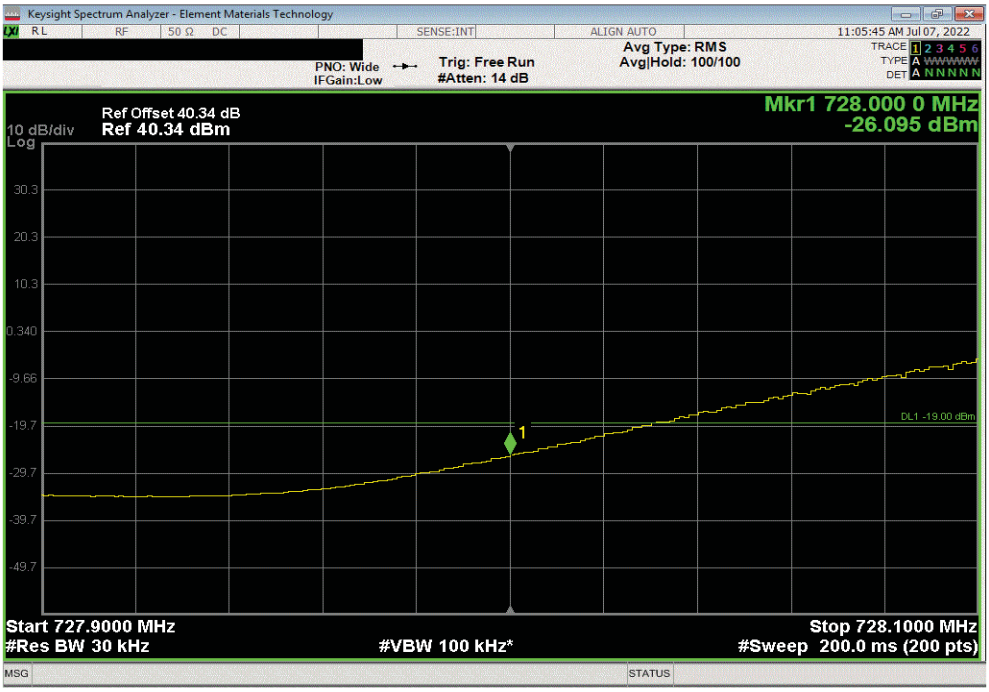


LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 2, LTE15 Carrier 2, 644.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		652.1	-26.23	-19	Pass

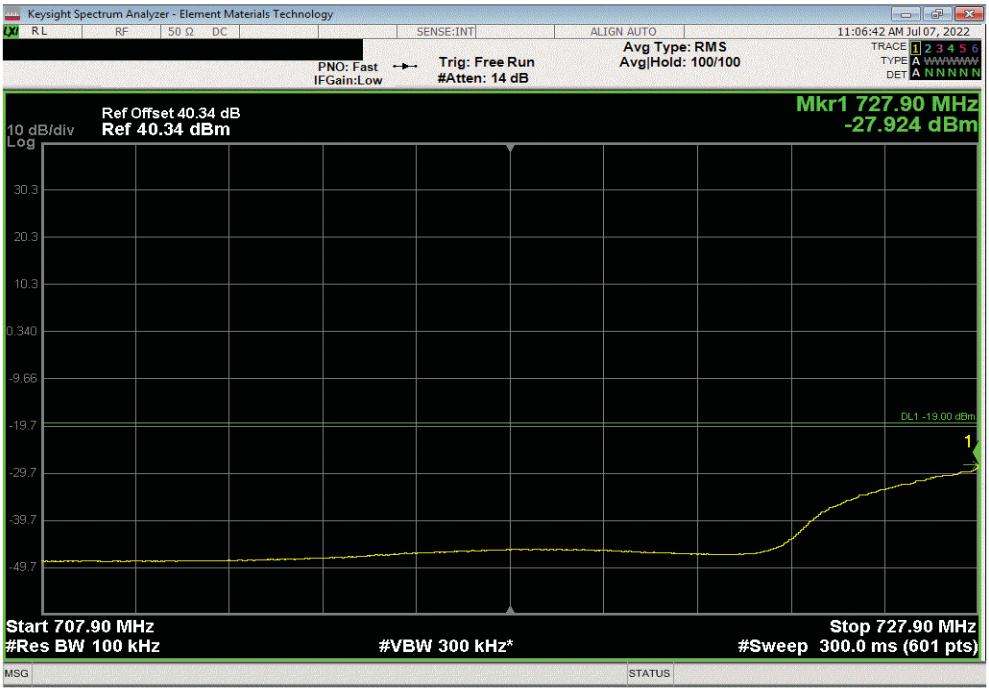


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 3, LTE5 Carrier 1, 730.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		728	-26.1	-19	Pass

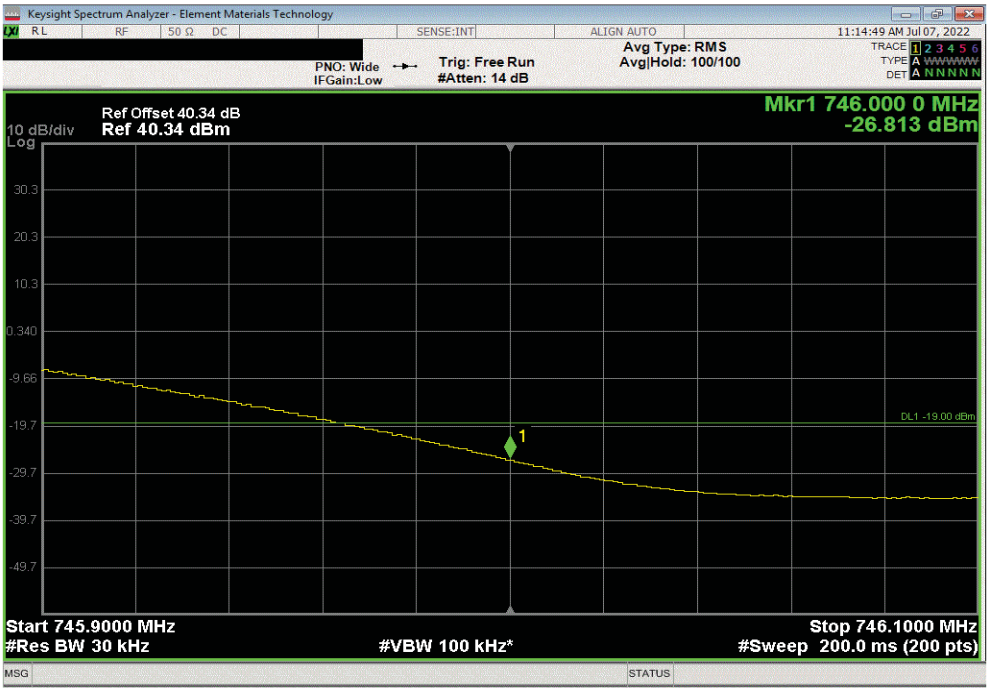


LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 3, LTE5 Carrier 1, 730.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		727.9	-27.92	-19	Pass

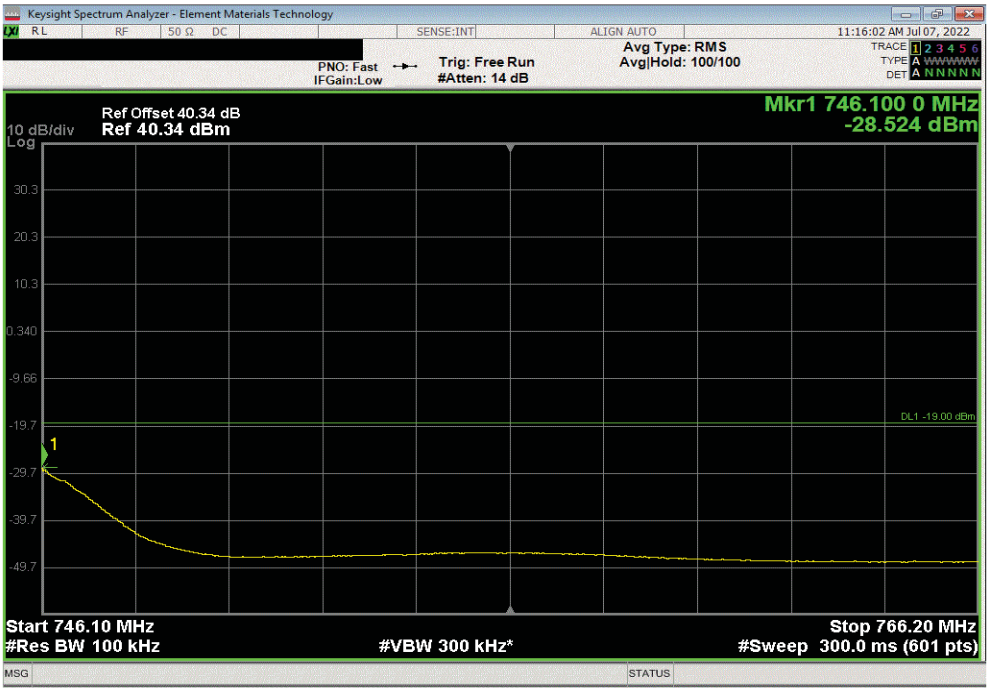


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 3, LTE5 Carrier 2, 743.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		746	-26.81	-19	Pass



LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 3, LTE5 Carrier 2, 743.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		746.1	-28.52	-19	Pass

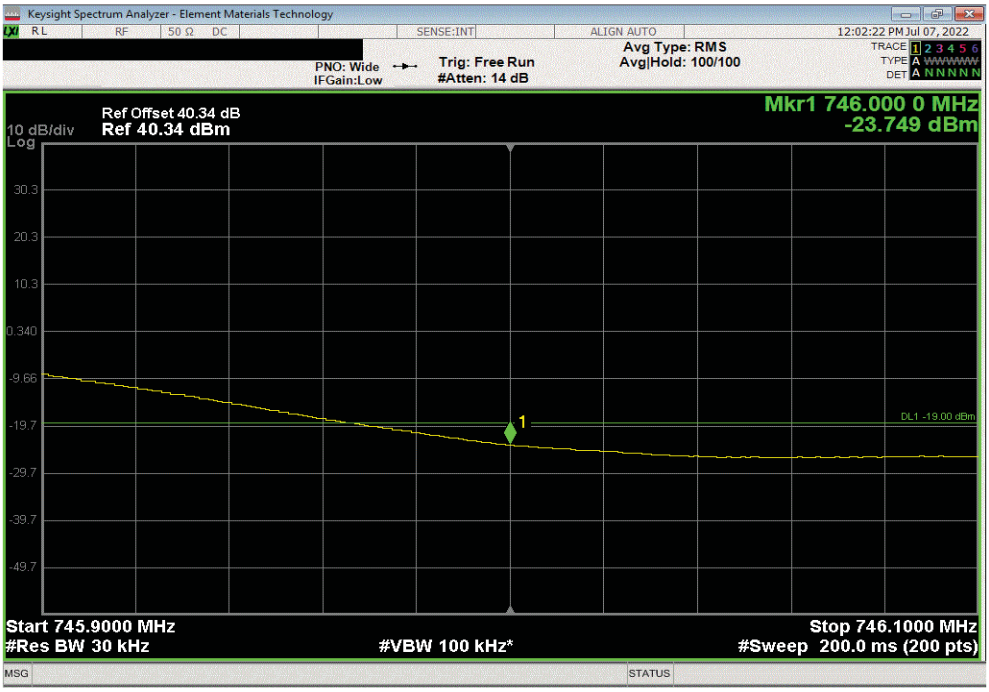


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

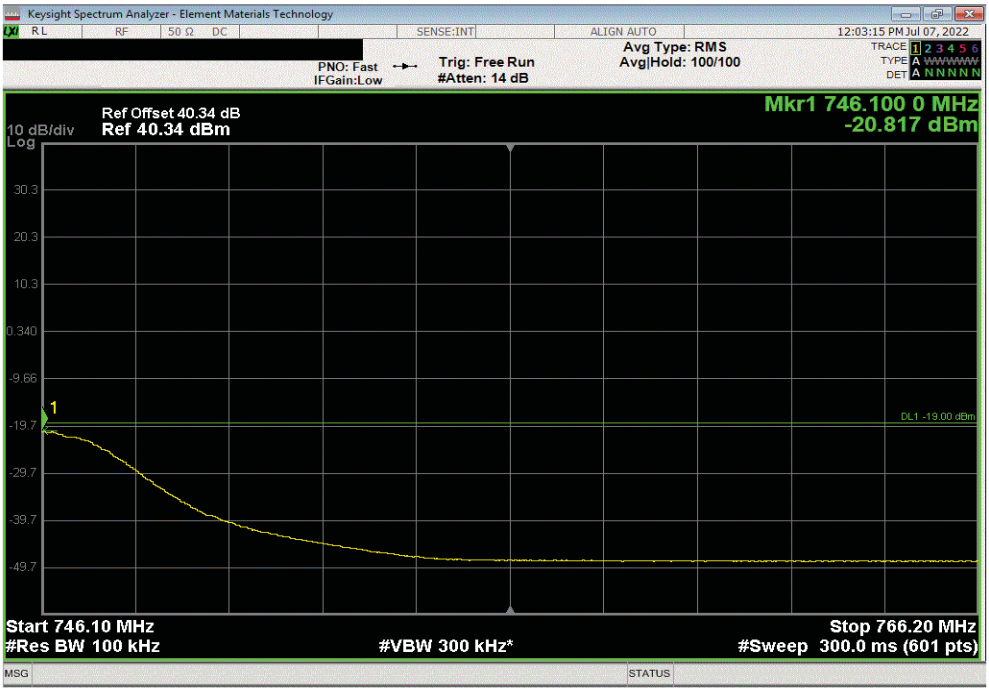
element

TbtTx 2022.05.02.0 XMit 2022.02.07.0

LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 4, LTE5 n85 Carrier 1, 743.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		746	-23.75	-19	Pass

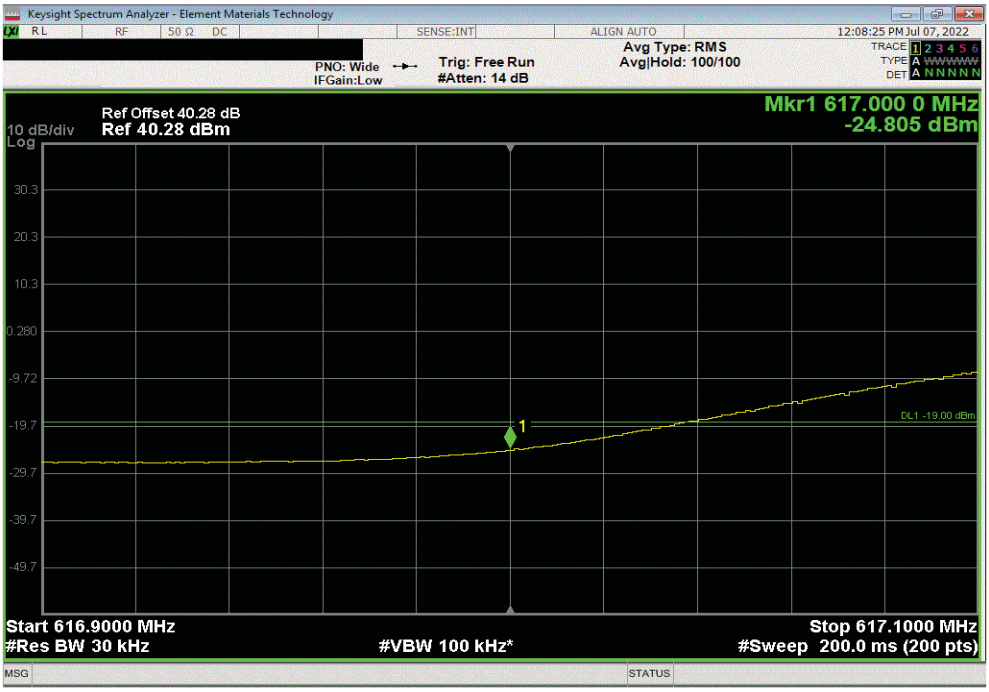


LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 4, LTE5 n85 Carrier 1, 743.5 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
6 GHz - 12.75 GHz	746.1	-20.82	-19	Pass

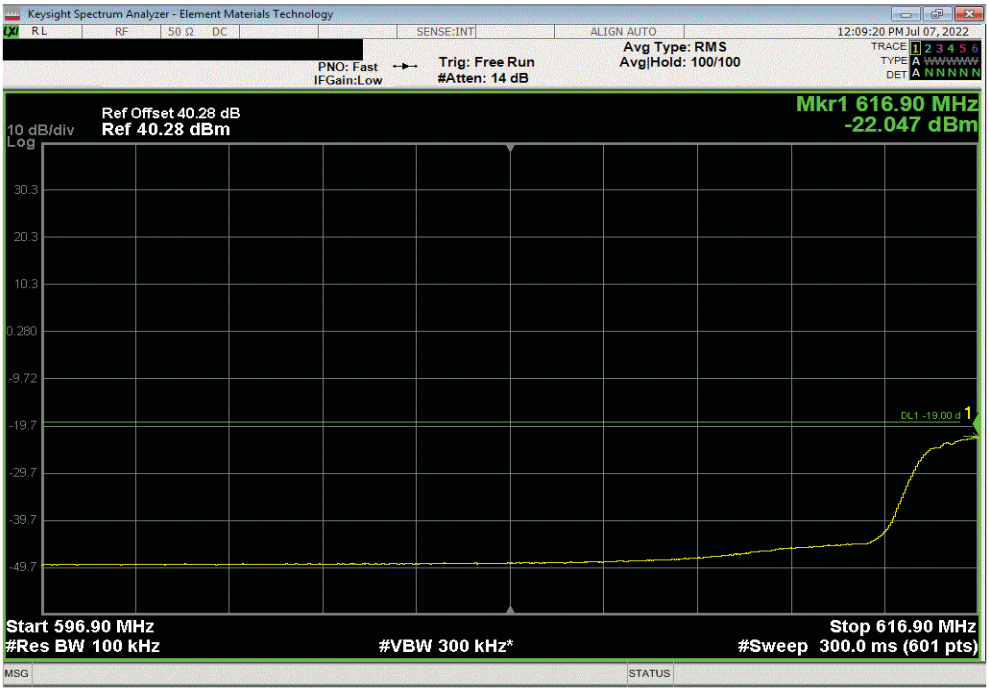


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 4, LTE5 n71 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		617	-24.81	-19	Pass

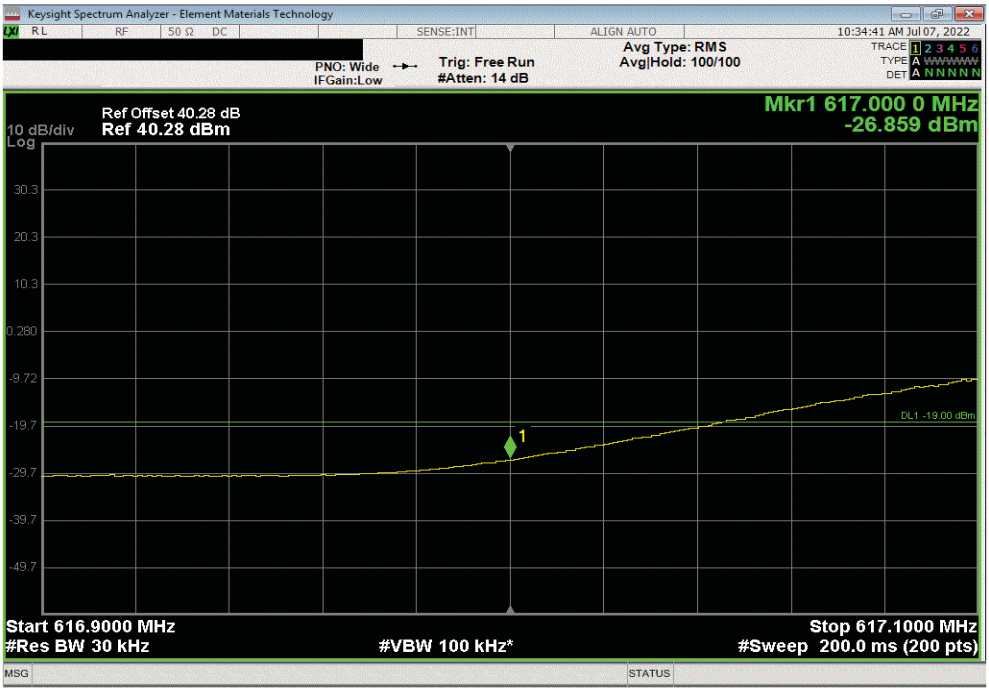


LTE Multicarrier Multiband, Port 2, QPSK Modulation, Test Case 4, LTE5 n71 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		616.9	-22.05	-19	Pass

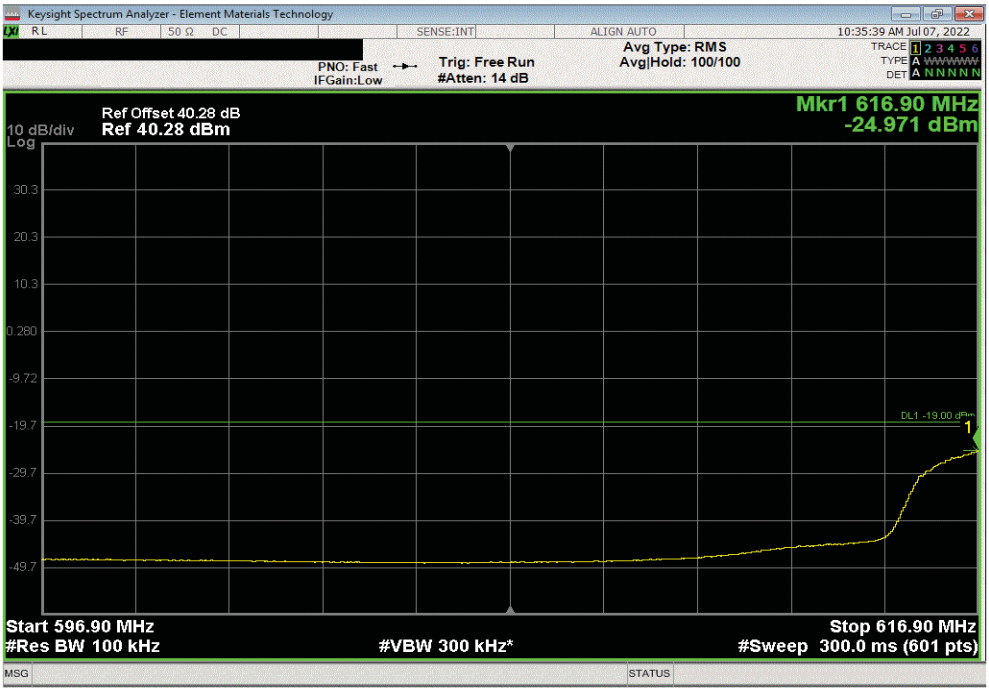


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 1, LTE5 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		617	-26.86	-19	Pass

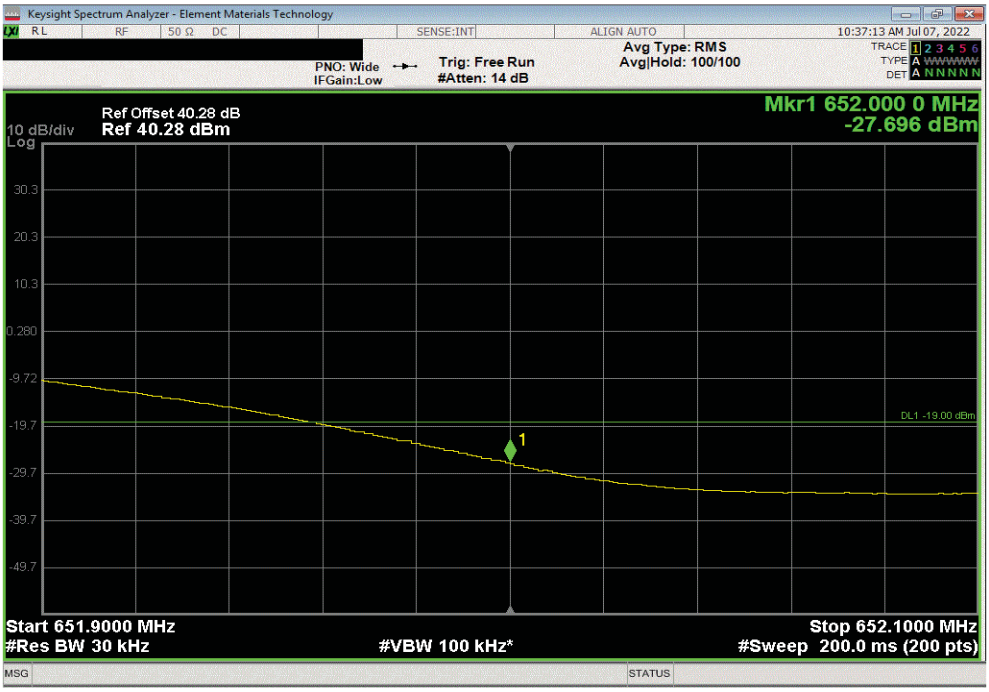


LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 1, LTE5 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		616.9	-24.97	-19	Pass

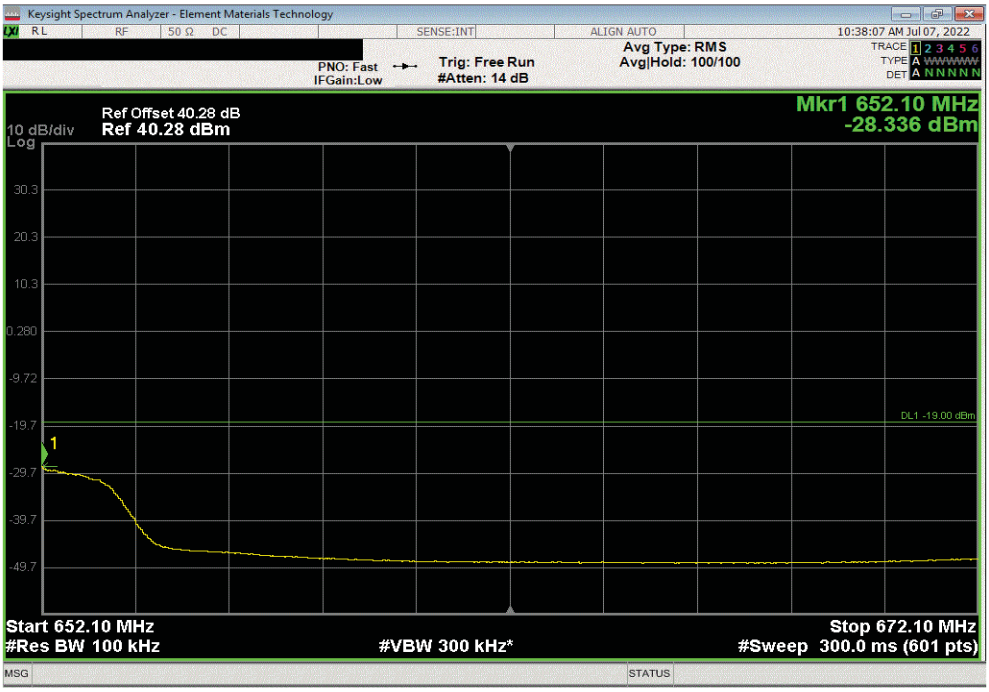


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 1, LTE5 Carrier 3, 649.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		652	-27.7	-19	Pass

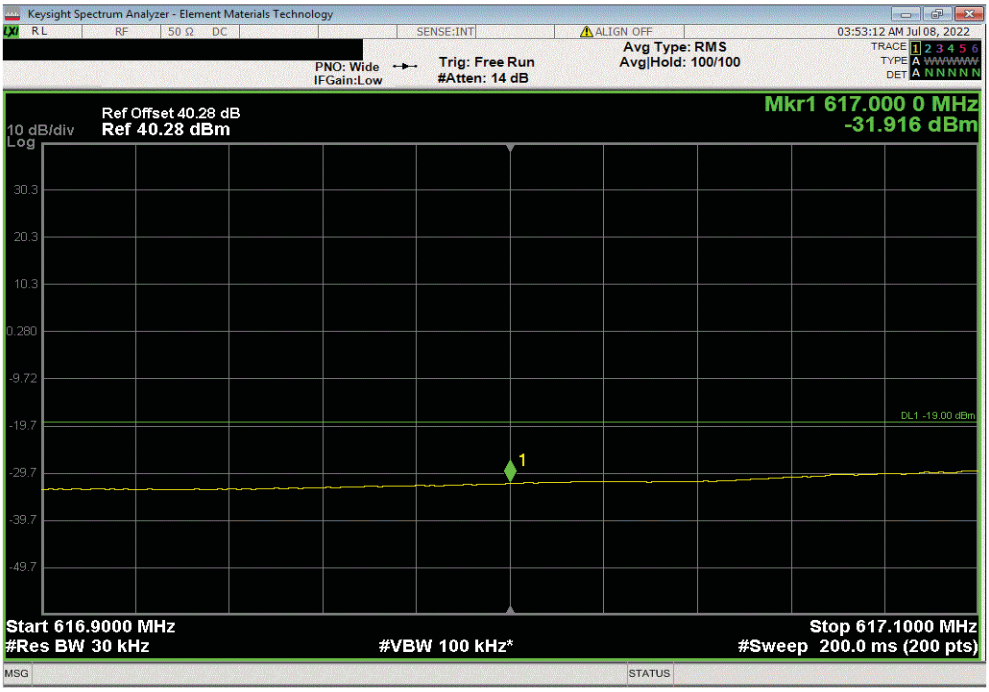


LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 1, LTE5 Carrier 3, 649.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		652.1	-28.34	-19	Pass

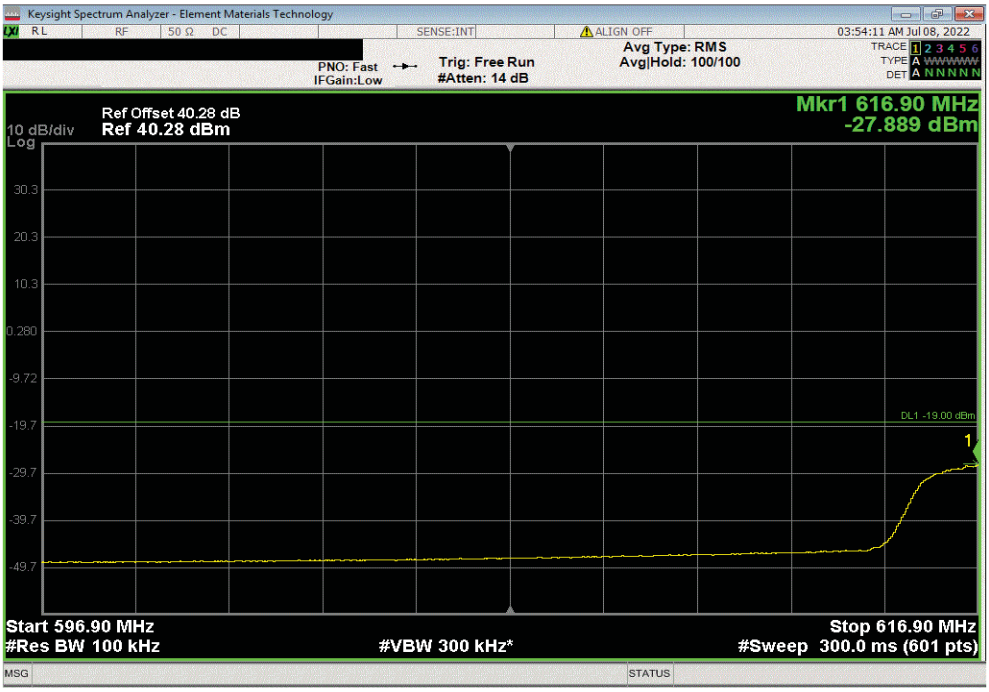


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 2, LTE20 Carrier 1, 627 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		617	-31.92	-19	Pass

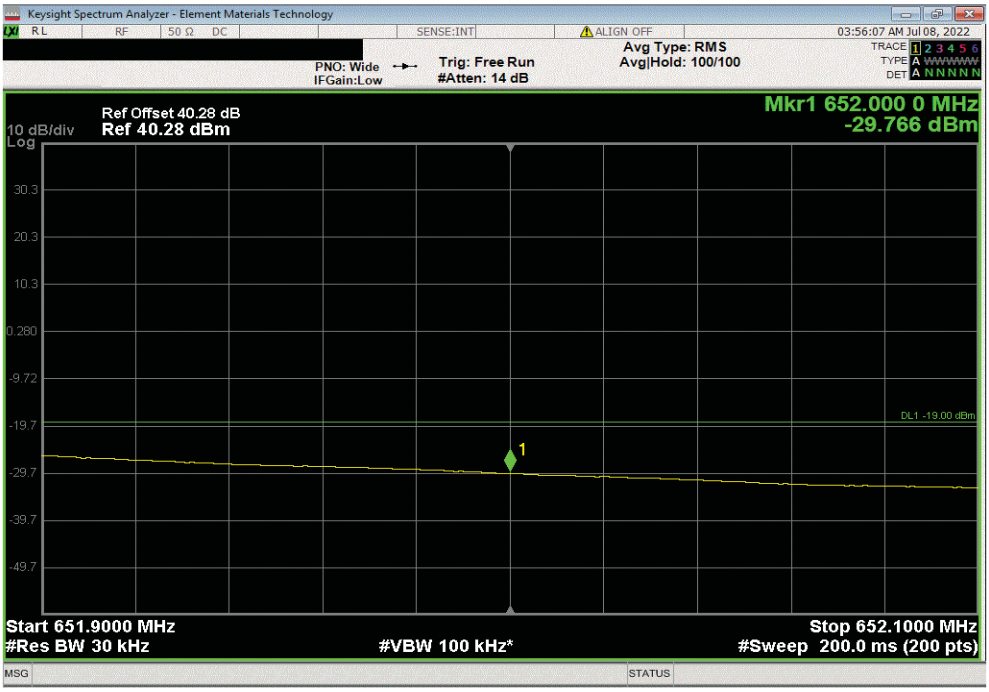


LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 2, LTE20 Carrier 1, 627 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		616.9	-27.89	-19	Pass

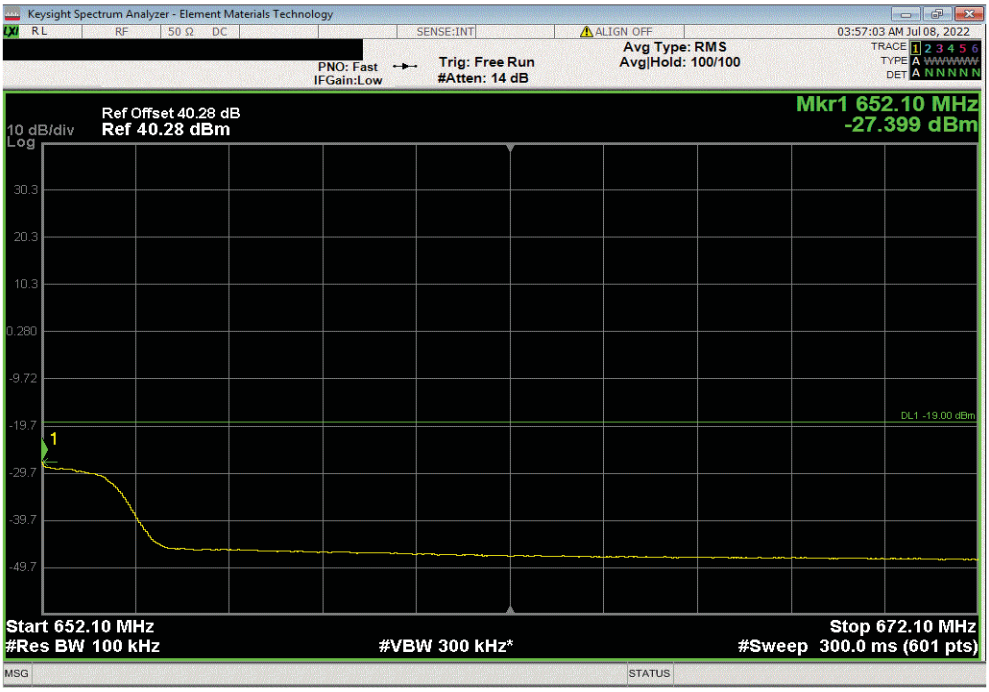


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 2, LTE15 Carrier 2, 644.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		652	-29.77	-19	Pass

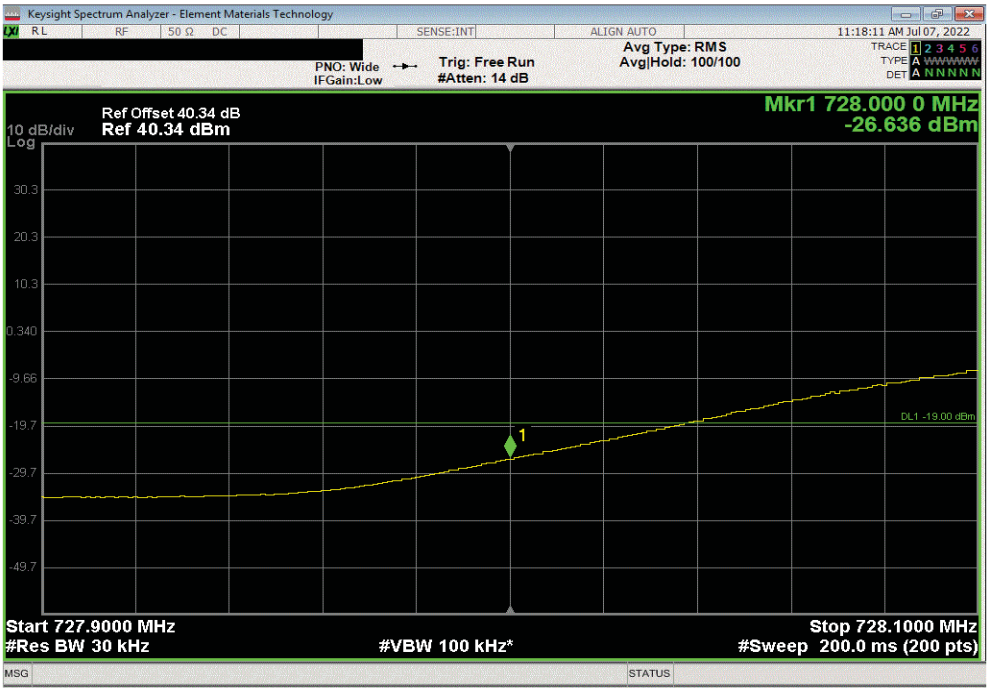


LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 2, LTE15 Carrier 2, 644.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		652.1	-27.4	-19	Pass

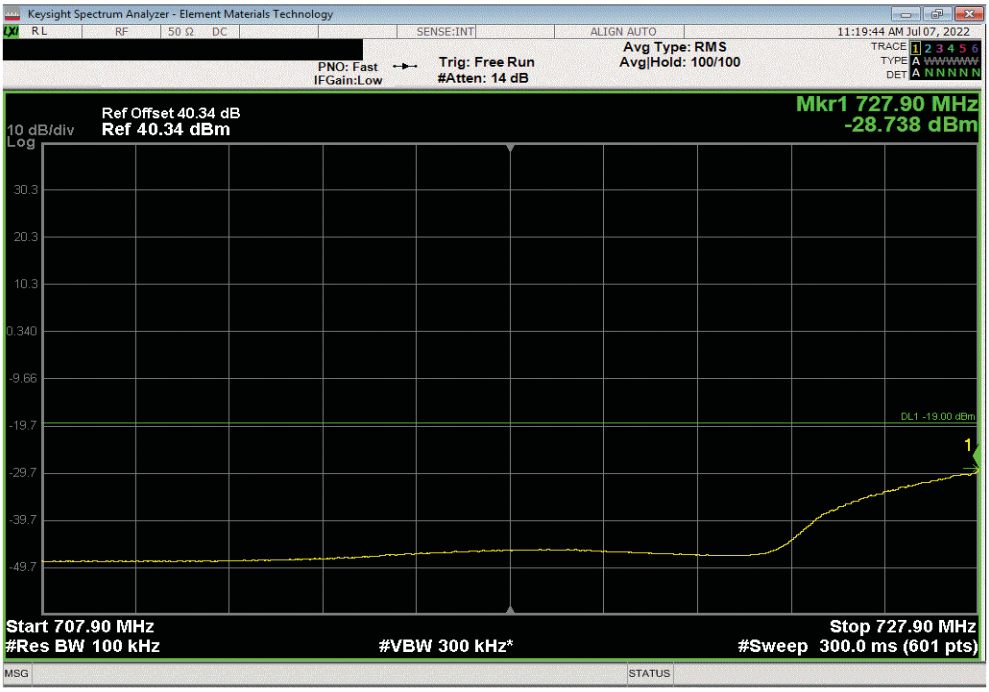


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 3, LTE5 Carrier 1, 730.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		728	-26.64	-19	Pass

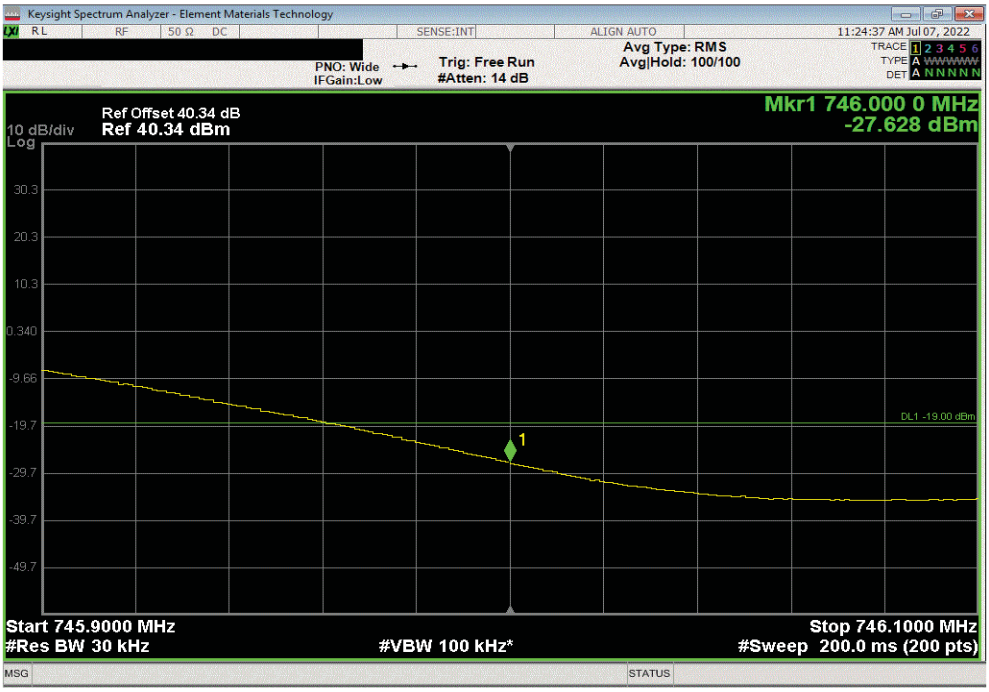


LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 3, LTE5 Carrier 1, 730.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		727.9	-28.74	-19	Pass

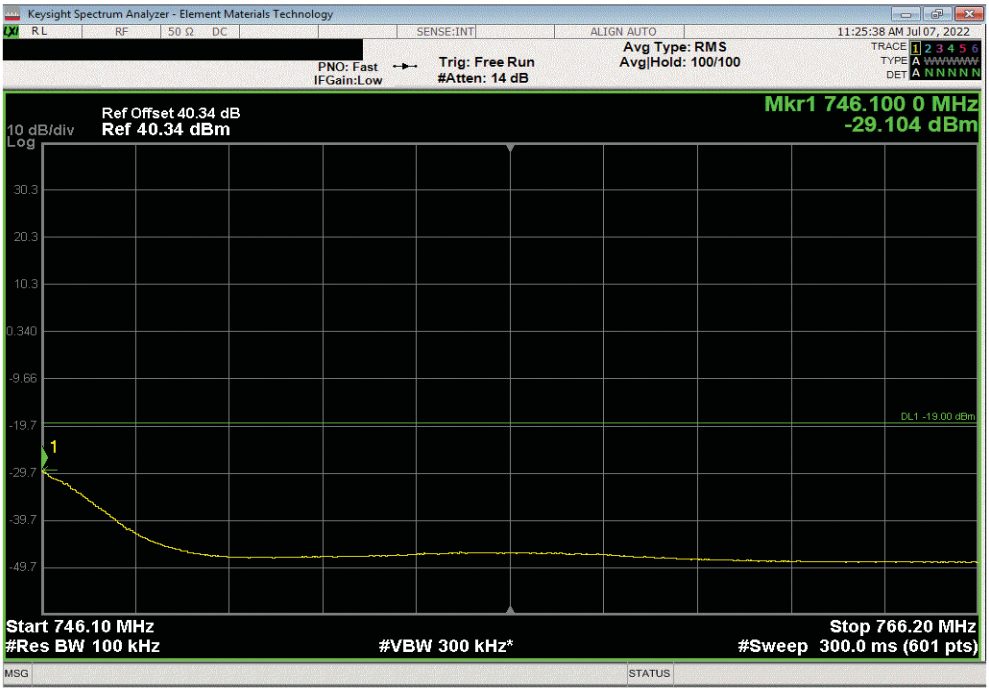


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 3, LTE5 Carrier 2, 743.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		746	-27.63	-19	Pass

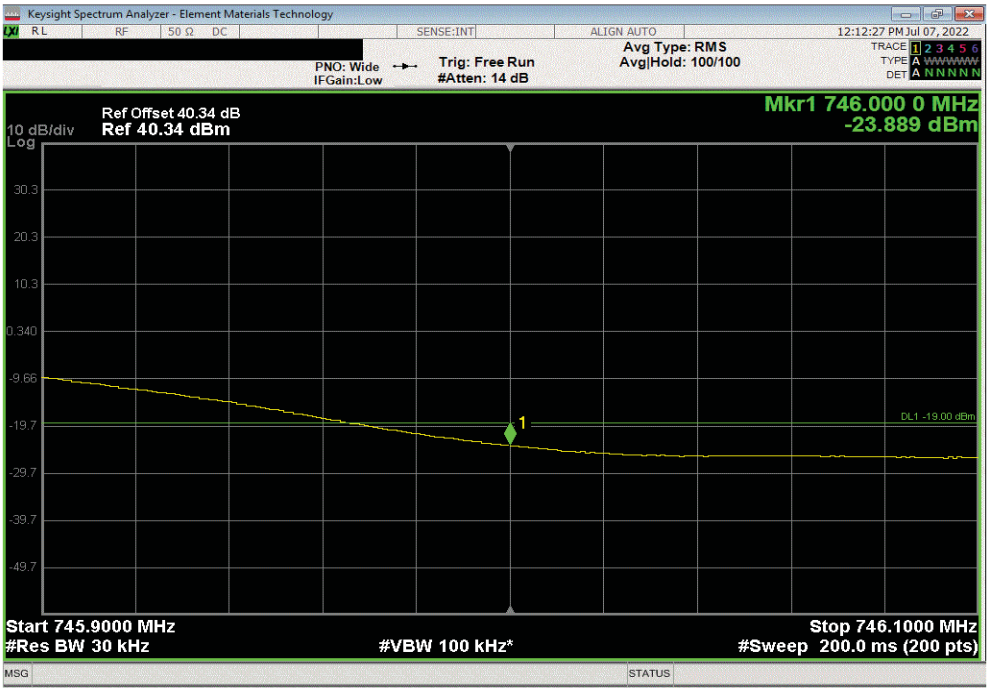


LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 3, LTE5 Carrier 2, 743.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		746.1	-29.1	-19	Pass

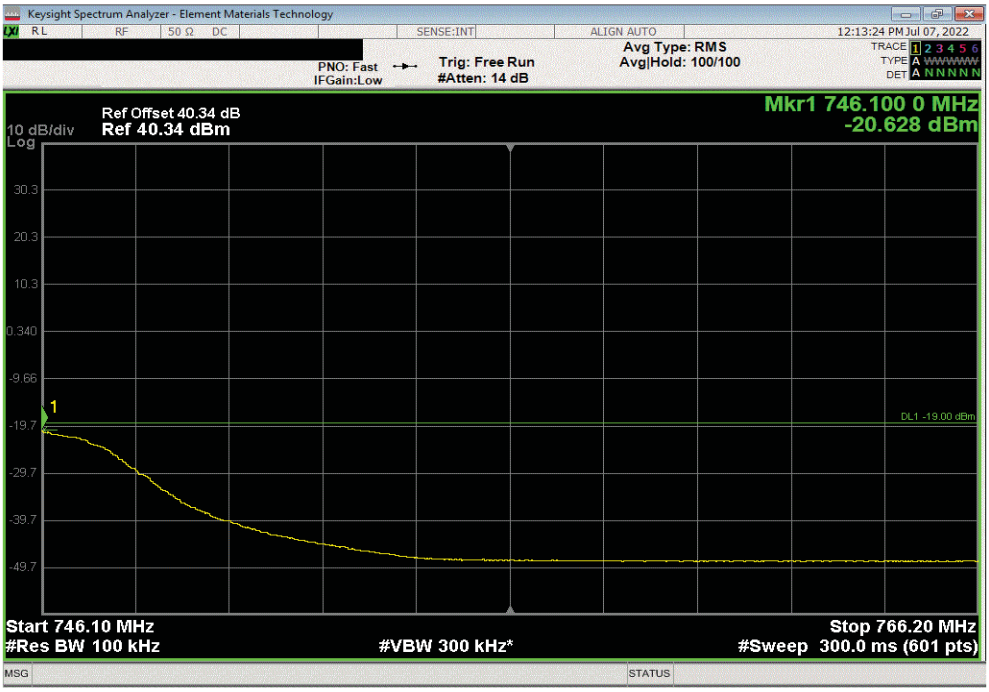


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 4, LTE5 n85 Carrier 1, 743.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		746	-23.89	-19	Pass

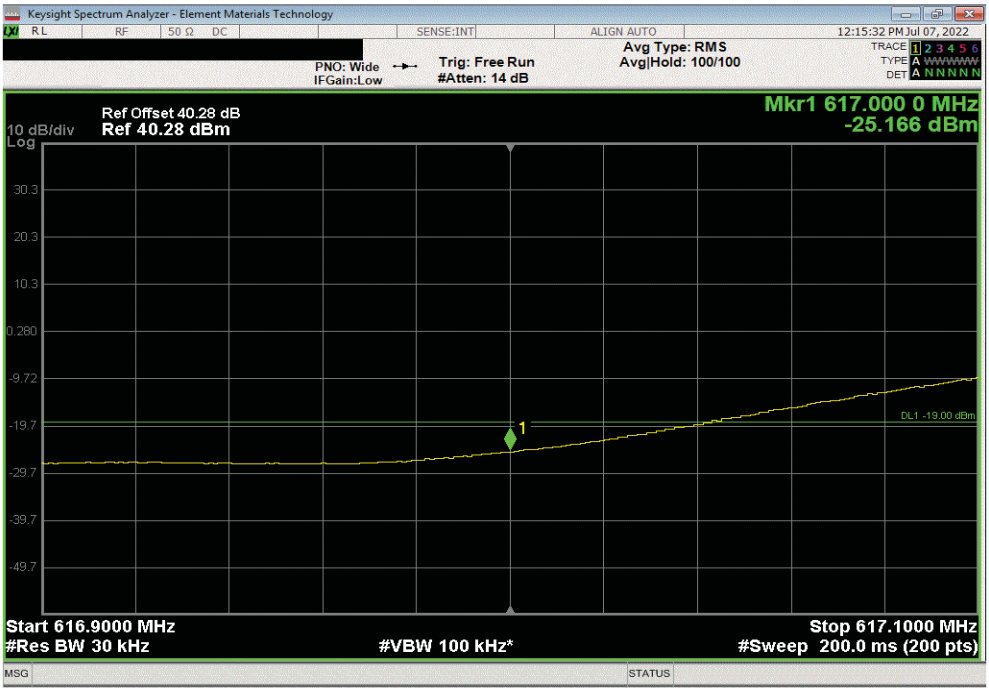


LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 4, LTE5 n85 Carrier 1, 743.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		746.1	-20.63	-19	Pass

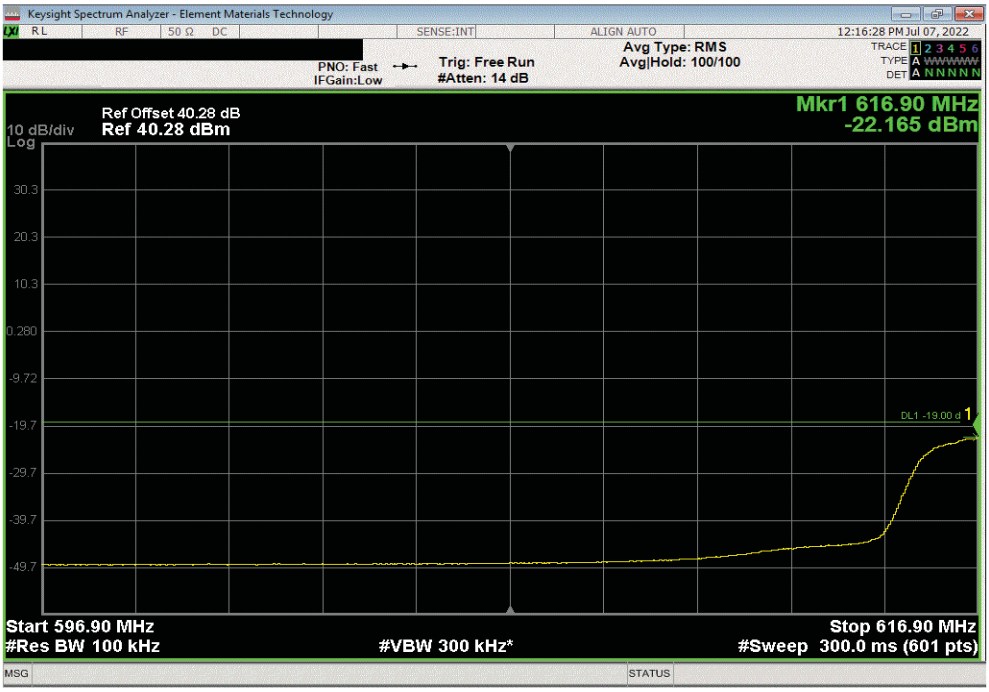


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 4, LTE5 n71 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		617	-25.17	-19	Pass

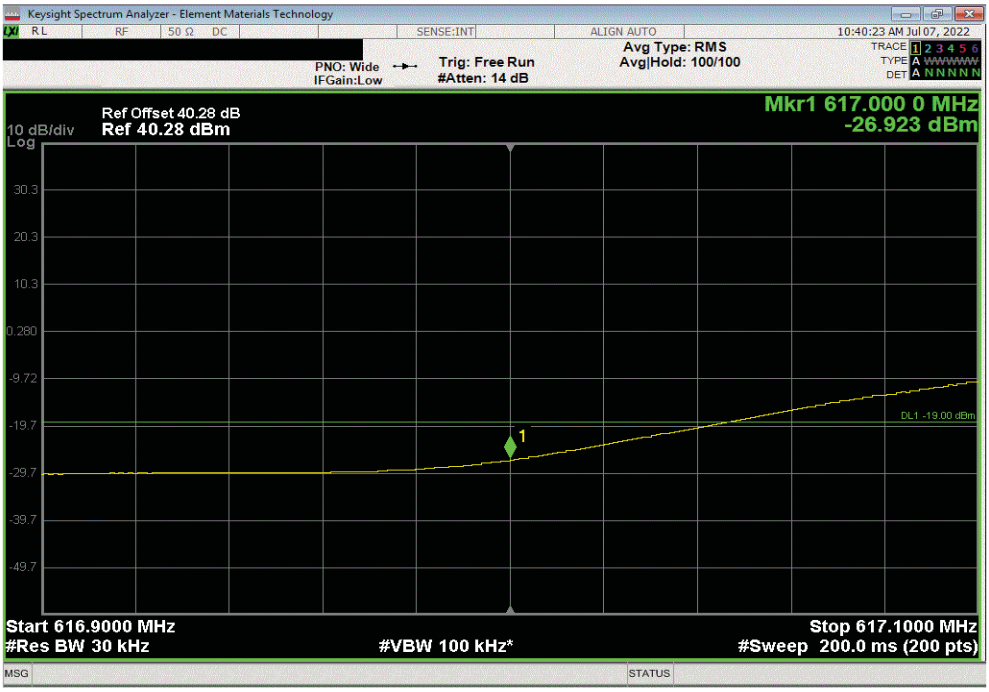


LTE Multicarrier Multiband, Port 2, 16-QAM Modulation, Test Case 4, LTE5 n71 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		616.9	-22.17	-19	Pass

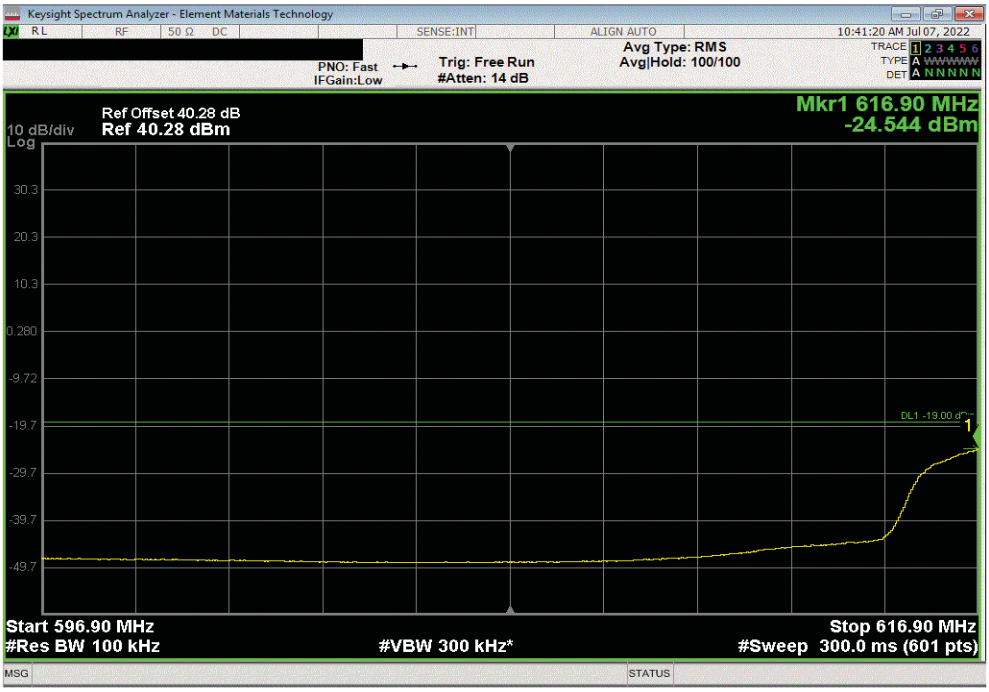


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 1, LTE5 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		617	-26.92	-19	Pass

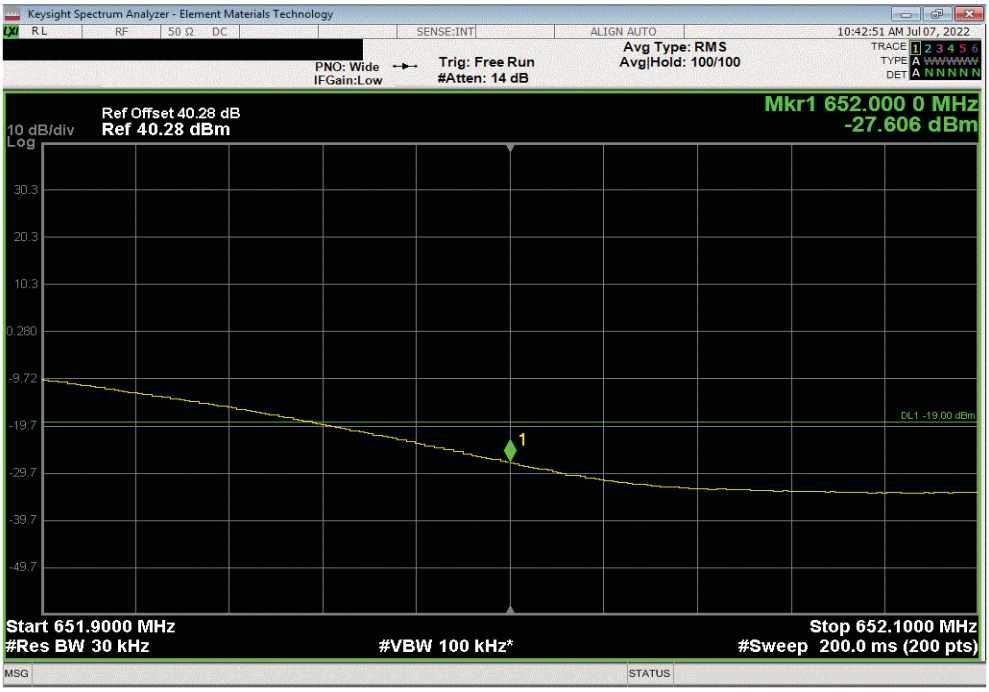


LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 1, LTE5 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		616.9	-24.54	-19	Pass

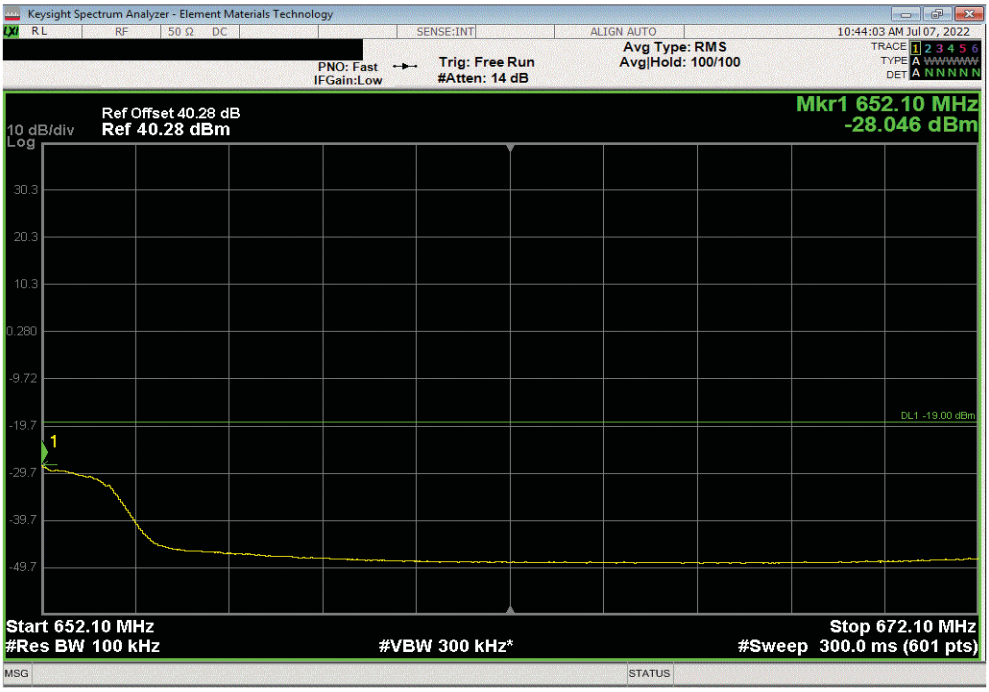


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 1, LTE5 Carrier 3, 649.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		652	-27.61	-19	Pass

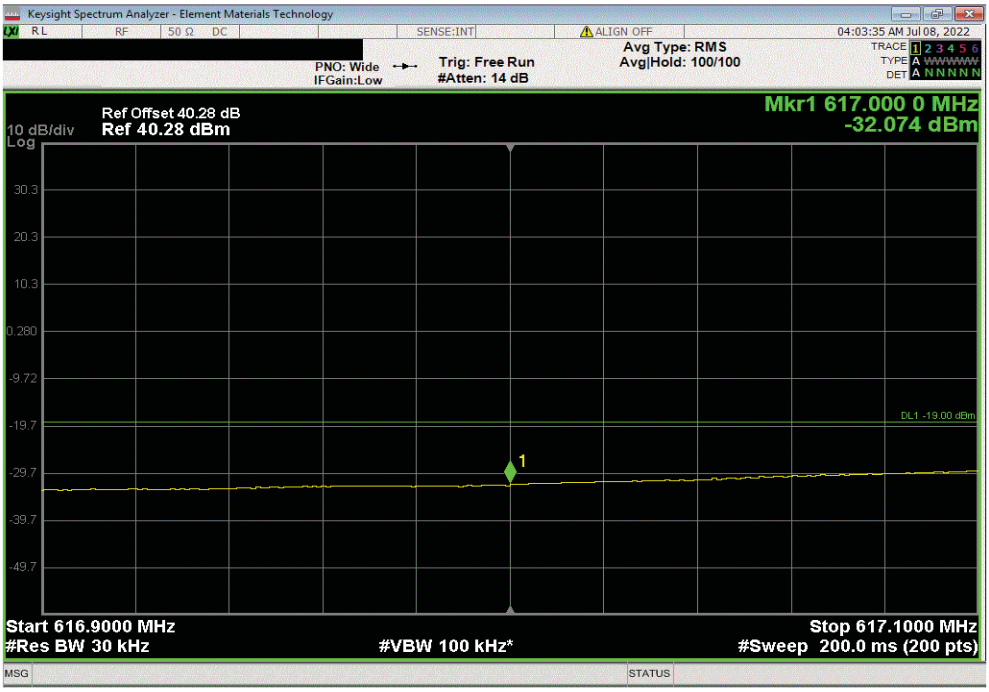


LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 1, LTE5 Carrier 3, 649.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		652.1	-28.05	-19	Pass

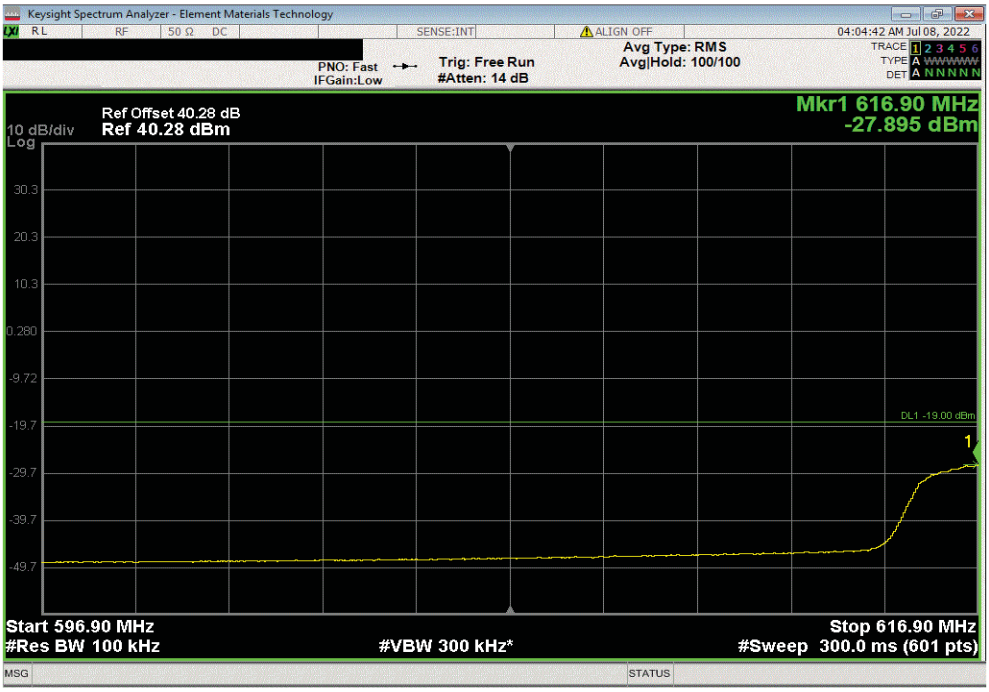


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 2, LTE20 Carrier 1, 627 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		617	-32.07	-19	Pass

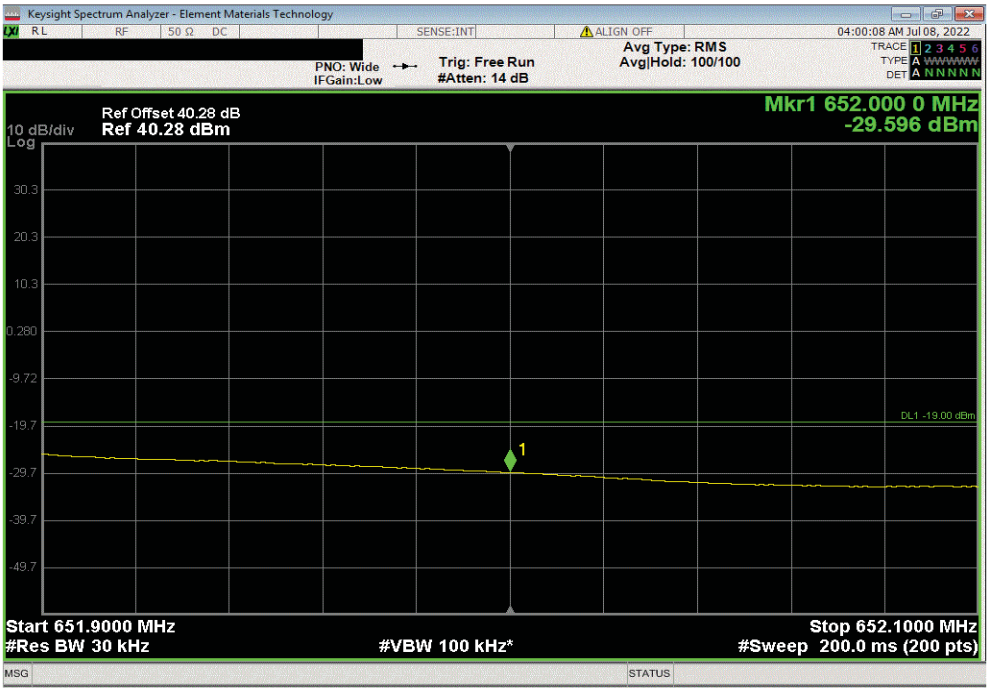


LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 2, LTE20 Carrier 1, 627 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		616.9	-27.9	-19	Pass

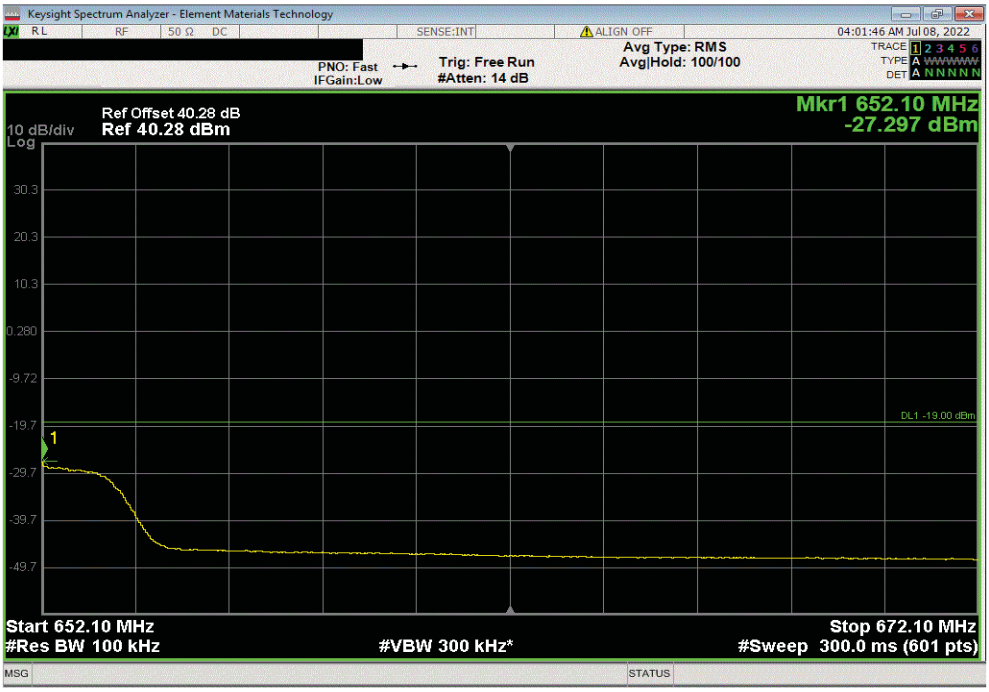


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 2, LTE15 Carrier 2, 644.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		652	-29.6	-19	Pass

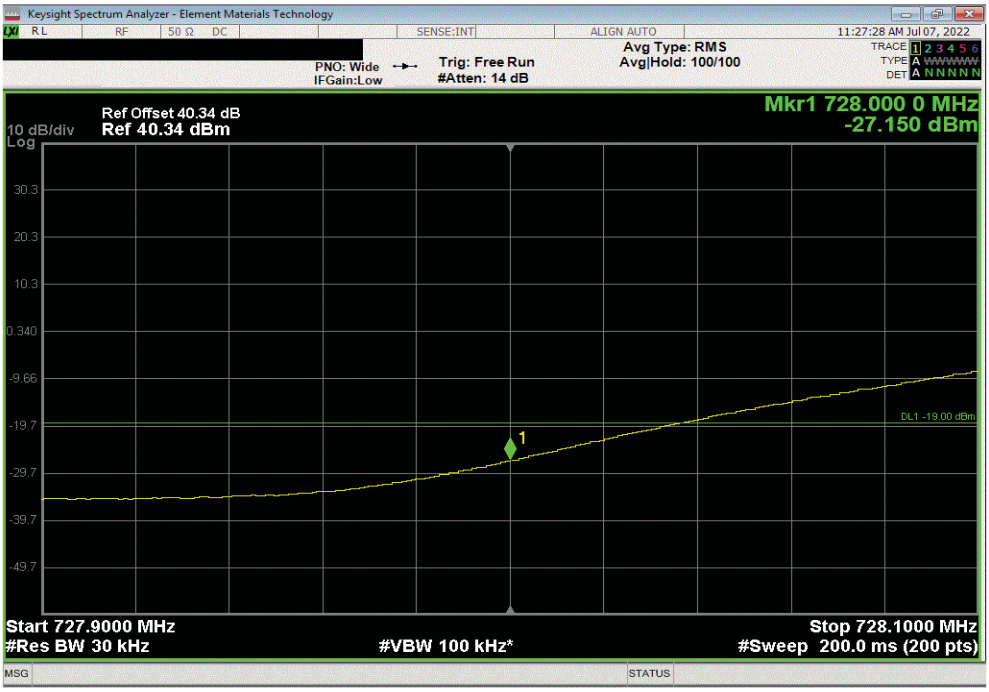


LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 2, LTE15 Carrier 2, 644.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		652.1	-27.3	-19	Pass

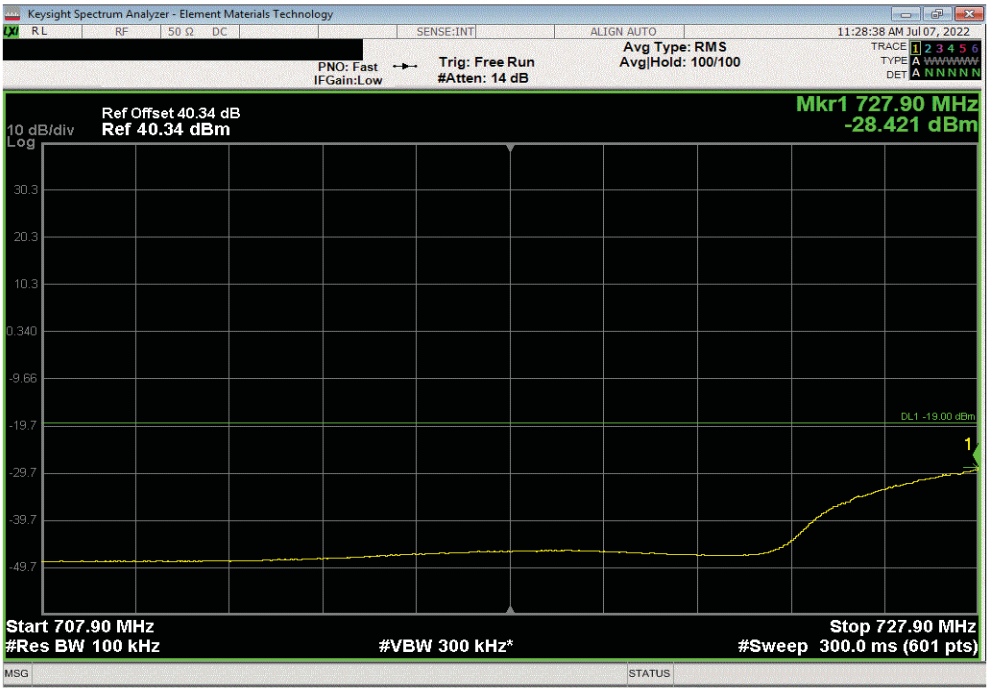


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

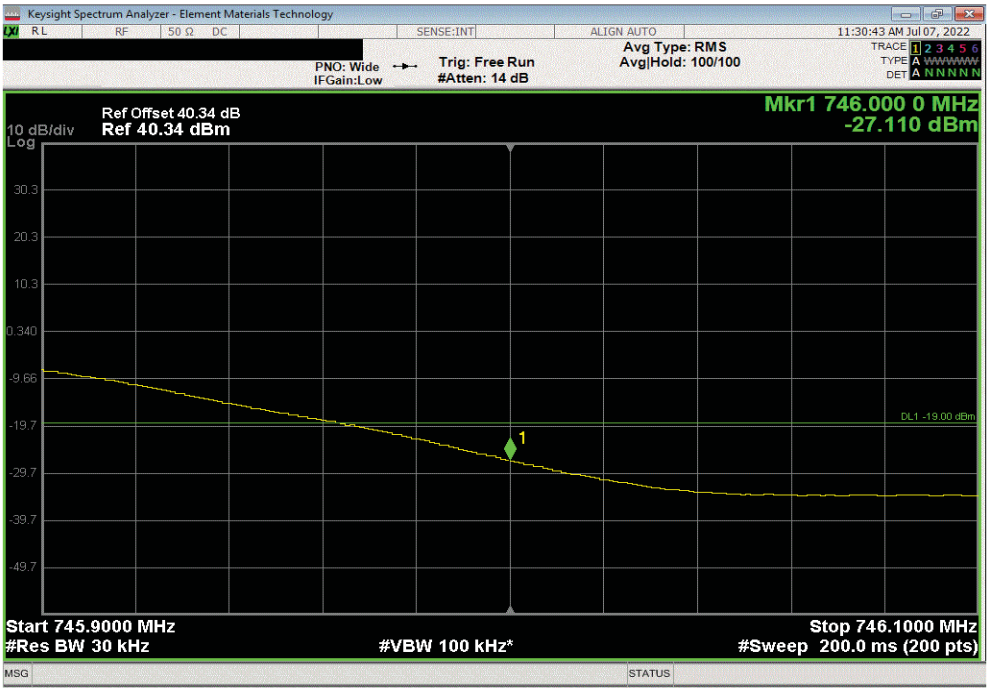
LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 3, LTE5 Carrier 1, 730.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		728	-27.15	-19	Pass



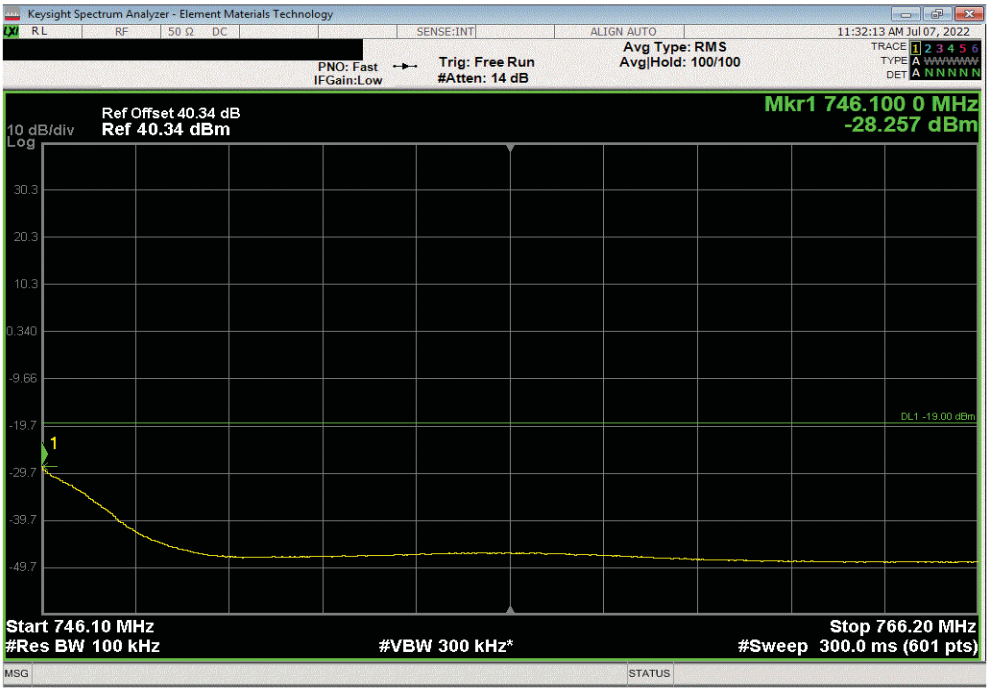
LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 3, LTE5 Carrier 1, 730.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		727.9	-28.42	-19	Pass



LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 3, LTE5 Carrier 2, 743.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		746	-27.11	-19	Pass

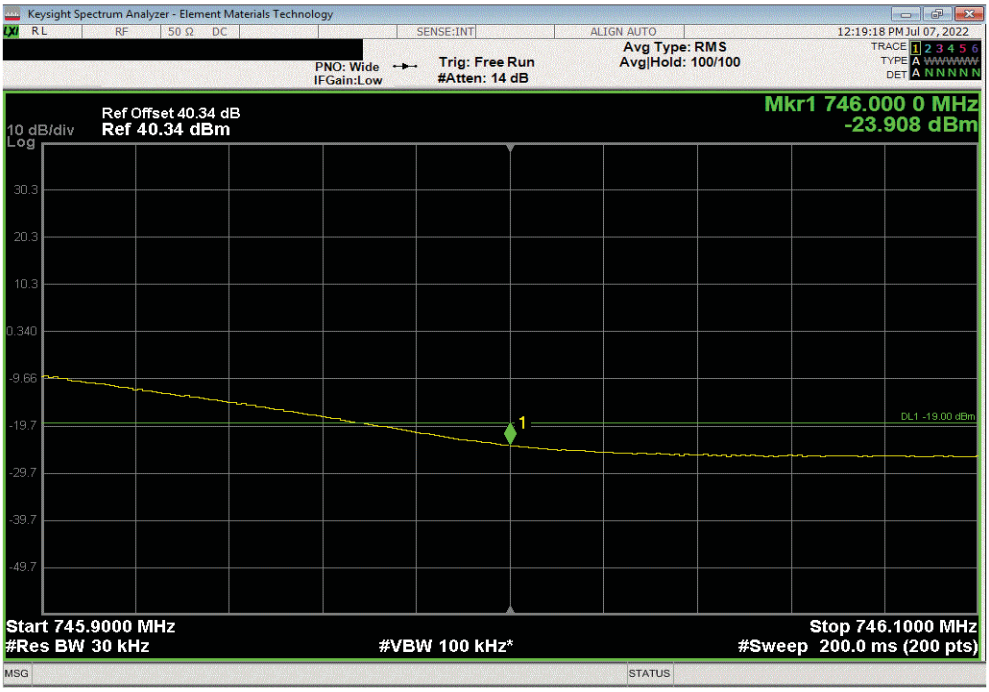


LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 3, LTE5 Carrier 2, 743.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		746.1	-28.26	-19	Pass

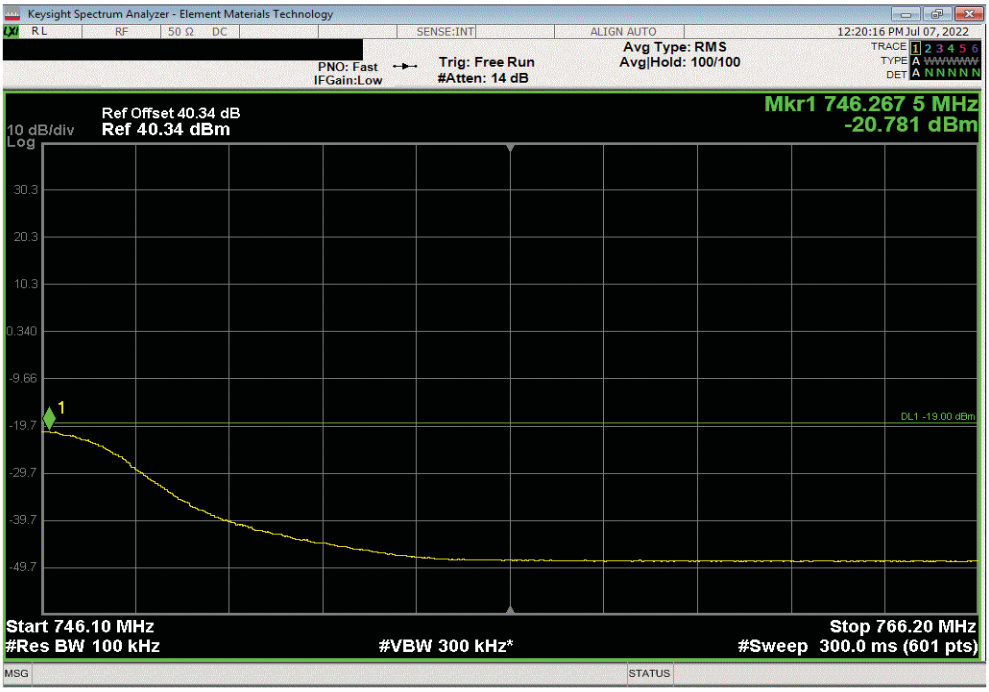


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 4, LTE5 n85 Carrier 1, 743.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		746	-23.91	-19	Pass



LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 4, LTE5 n85 Carrier 1, 743.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		746.27	-20.78	-19	Pass

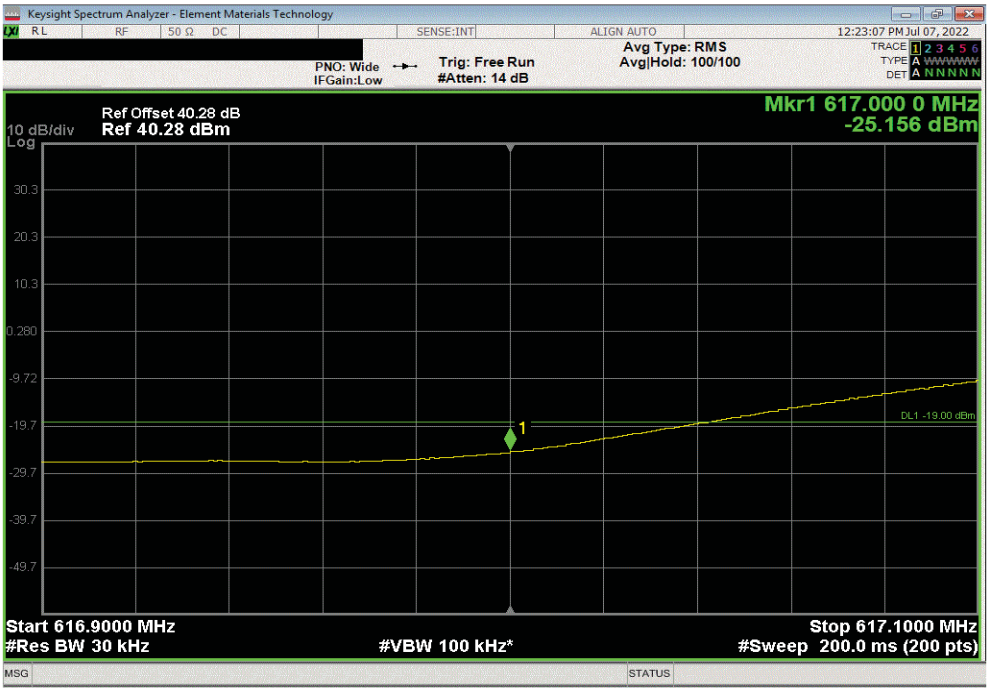


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

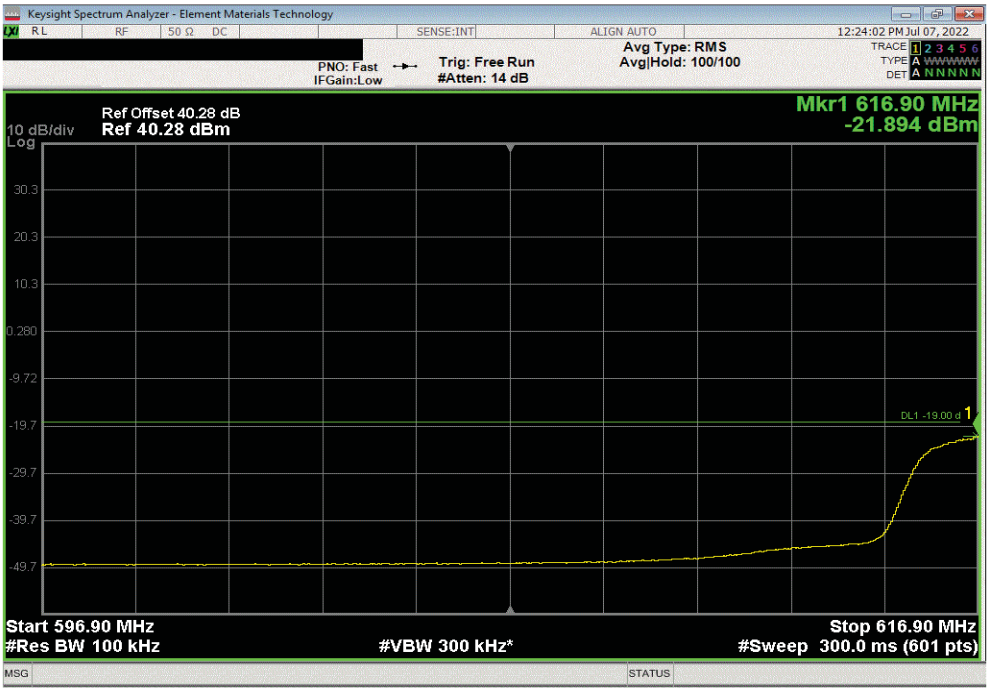
element

TbtTx 2022.05.02.0 XMit 2022.02.07.0

LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 4, LTE5 n71 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		617	-25.16	-19	Pass

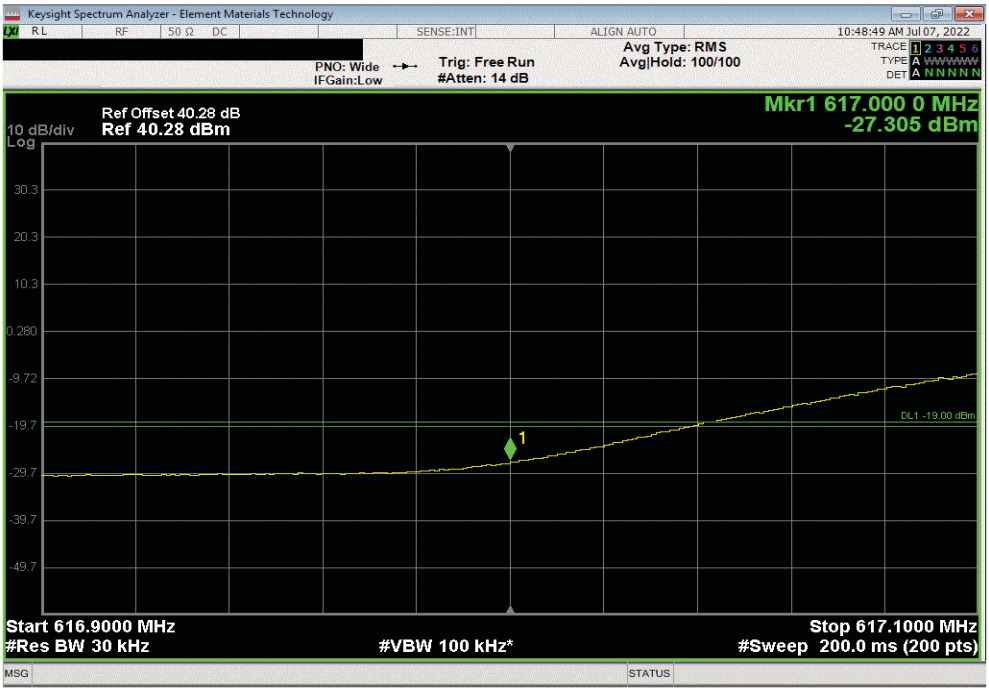


LTE Multicarrier Multiband, Port 2, 64-QAM Modulation, Test Case 4, LTE5 n71 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		616.9	-21.89	-19	Pass

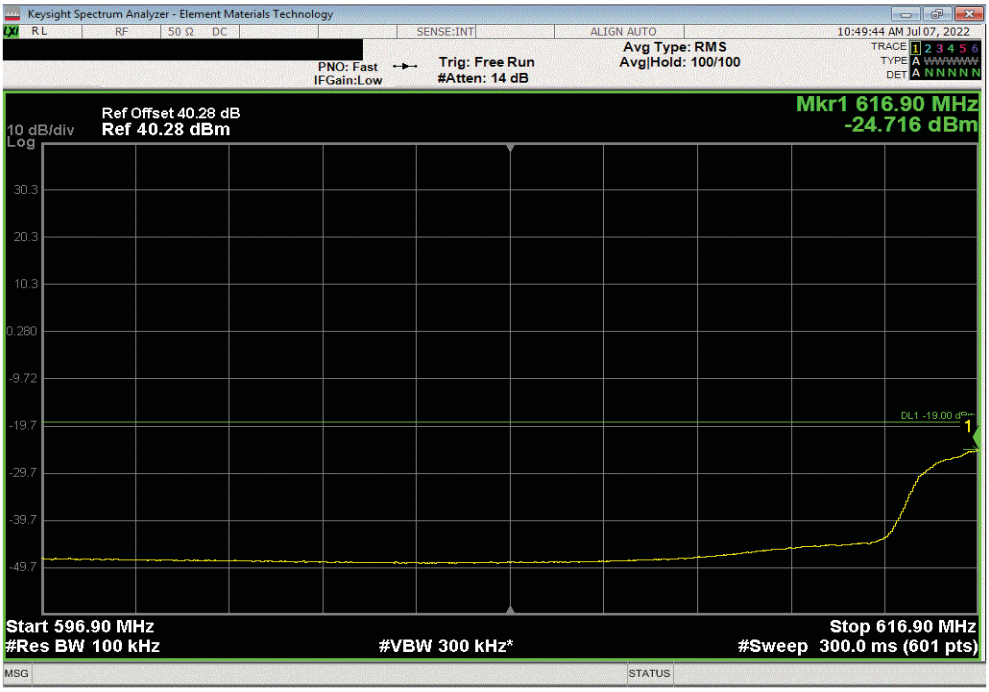


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 256-QAM Modulation, Test Case 1, LTE5 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		617	-27.31	-19	Pass

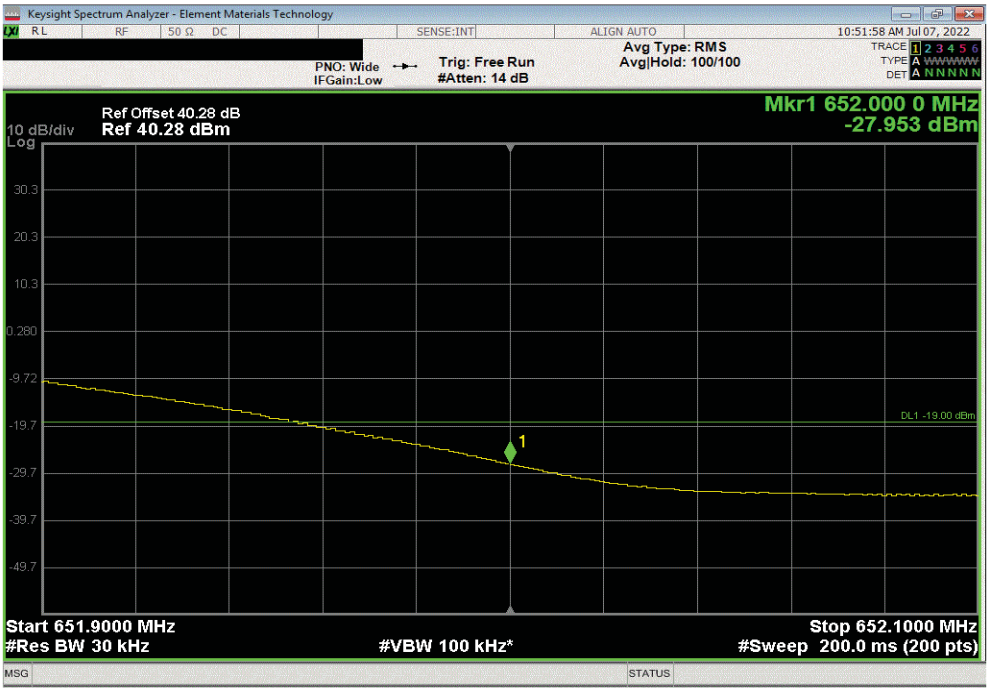


LTE Multicarrier Multiband, Port 2, 256-QAM Modulation, Test Case 1, LTE5 Carrier 1, 619.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		616.9	-24.72	-19	Pass

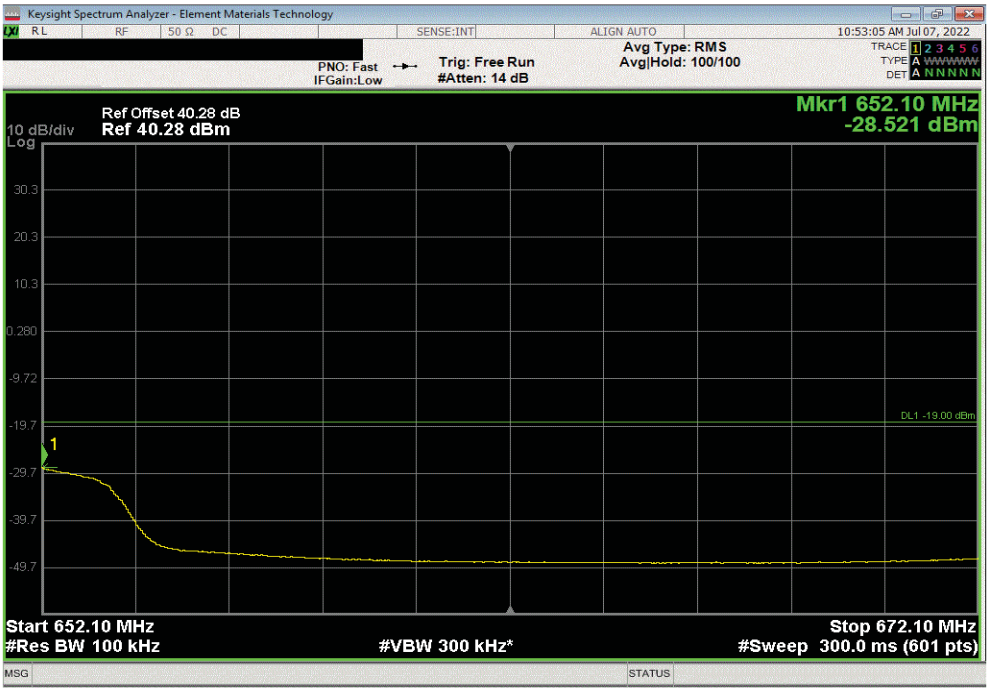


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 256-QAM Modulation, Test Case 1, LTE5 Carrier 3, 649.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		652	-27.95	-19	Pass

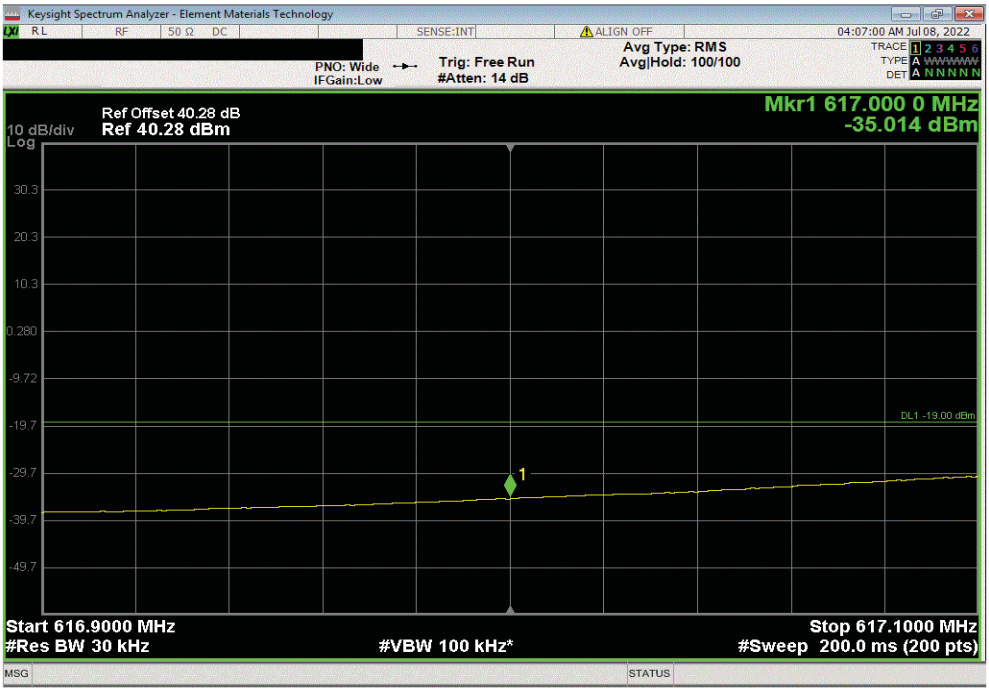


LTE Multicarrier Multiband, Port 2, 256-QAM Modulation, Test Case 1, LTE5 Carrier 3, 649.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		652.1	-28.52	-19	Pass

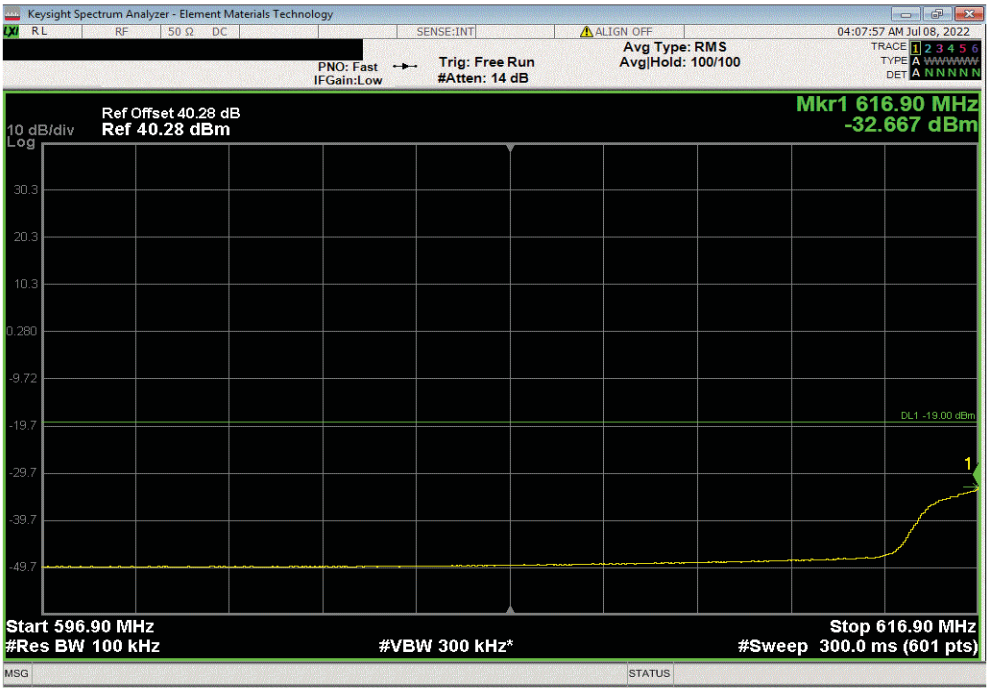


BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 256-QAM Modulation, Test Case 2, LTE20 Carrier 1, 627 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		617	-35.01	-19	Pass

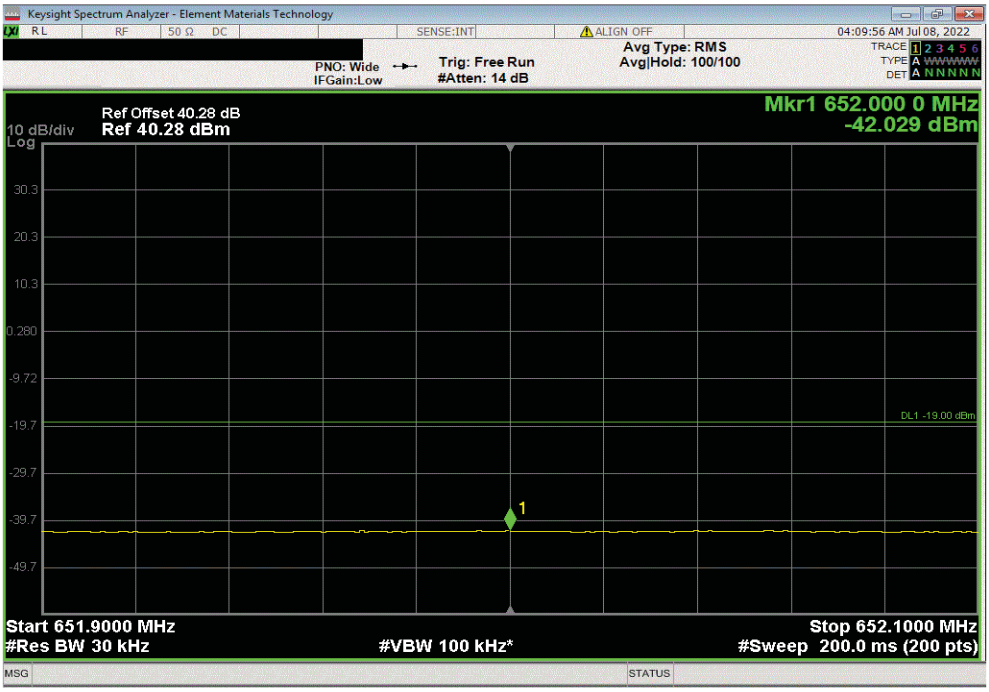


LTE Multicarrier Multiband, Port 2, 256-QAM Modulation, Test Case 2, LTE20 Carrier 1, 627 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		616.9	-32.67	-19	Pass



BAND EDGE COMPLIANCE - MULTIBAND MULTICARRIER

LTE Multicarrier Multiband, Port 2, 256-QAM Modulation, Test Case 2, LTE15 Carrier 2, 644.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	1		652	-42.03	-19	Pass



LTE Multicarrier Multiband, Port 2, 256-QAM Modulation, Test Case 2, LTE15 Carrier 2, 644.5 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
	2		652.1	-36.75	-19	Pass