

BAND EDGE COMPLIANCE



XMit 2019.09.05

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
Generator - Signal	Keysight	N5171B-506	TEW	2-May-18	2-May-21
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	19-Mar-19	19-Mar-20

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. For Multiband operation, measurements were taken at the lower band edge of the lower band and the upper band edge of the upper band.

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

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

For Bands 12 and 14, the adjustment factor is $-10 \log(4) = -6$ dB. The Bands 12 and 14 adjusted limit is -19 dBm.
For Band 29, the adjustment factor is $-10 \log(2) = -3$ dB. The Band 29 adjusted limit is -16 dBm.

For Band 14 band edge measurements from 769MHz-775MHz and 799MHz-807MHz, reference level offset corrections were applied to the spectrum analyzer, according to the following table:

Frequency (MHz)	769	769.05	769.1	769.15	769.2	769.25	769.3	769.35	769.4
Correction Factor (dB)	50.1	49.2	48.4	47.8	47.3	46.9	46.5	46.2	45.9
Frequency (MHz)	769.45	769.5	769.55	769.6	769.65	769.7	769.75	769.8	769.85
Correction Factor (dB)	45.7	45.4	45.2	45.1	44.9	44.7	44.6	44.5	44.4
Frequency (MHz)	769.9	769.95	770	770.5	771	775	776	798	805
Correction Factor (dB)	44.3	4.2	44.1	43.3	42.9	41.9	41.8	41.1	41.1

Per FCC section 27.53(g), 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 RRH may operate as a 4 port MIMO transmitter for Band 12.

FCC 27.53(g) requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 27.53(g) 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.

Per section 90.543(e)(3), 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 RRH may operate as a 4 port MIMO transmitter for Band 14.

FCC 90.543(e)(5) requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 90.543(e)(5) 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.

FCC 90.543(e)(1) requires an emission limit of -46dBm for any 6.25 kHz bandwidth between frequency bands 769-775 MHz and 799-805 MHz. The limit is adjusted to -52 dBm per 6.25kHz bandwidth [-46 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

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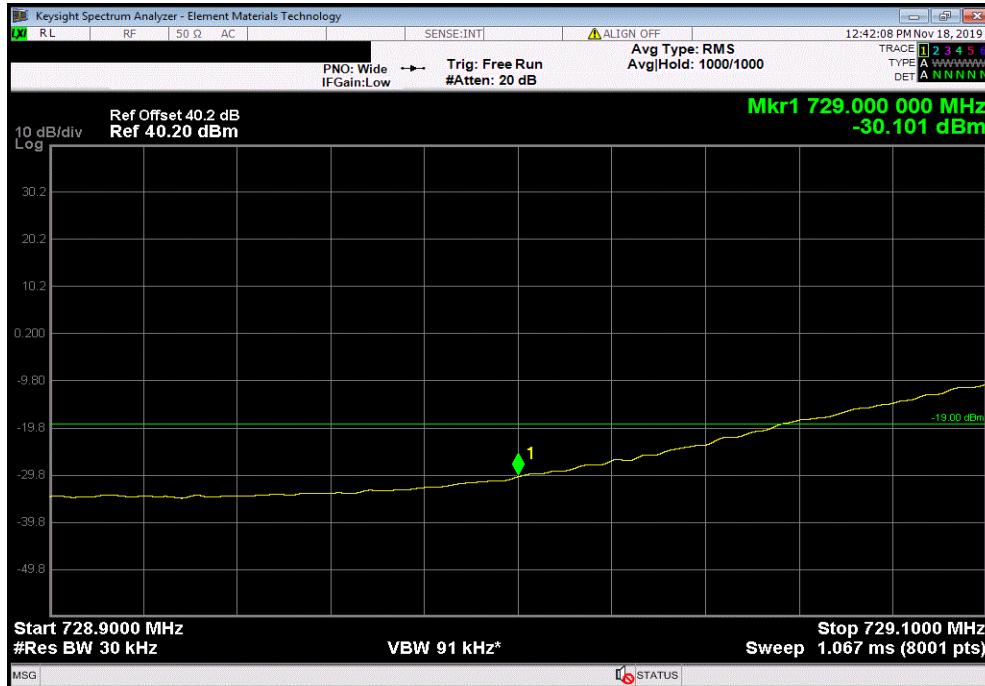
EUT:	AHLBBA RRH	Work Order:	NOKI0004			
Serial Number:	K9193514835	Date:	19-Nov-19			
Customer:	Nokia Solutions and Networks	Temperature:	22.8 °C			
Attendees:	John Rattanavong	Humidity:	30.9% RH			
Project:	None	Barometric Pres.:	1017 mbar			
Tested by:	Jonathan Kiefer	Power:	54VDC			
TEST SPECIFICATIONS		Test Method	Job Site: TX09			
FCC 27:2019		ANSI C63.26:2015				
FCC 90:2019		ANSI C63.26:2015				
COMMENTS	Band 12 Multicarrier and Band 14 Multicarrier band edge measurements. Tested on highest power antenna port (Port 1). EUT is operated at 100% duty cycle.					
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	2, 3	Signature	<i>Jonathan Kiefer</i>			
		Value	Limit	Result		
Band 12 Multicarrier						
QPSK Modulation						
Lower Band Edge						
Measurement 1		-30.101	-19	Pass		
Measurement 2		-28.441	-19	Pass		
Upper Band Edge						
Measurement 1		-30.016	-19	Pass		
Measurement 2		-28.313	-19	Pass		
16QAM Modulation						
Lower Band Edge						
Measurement 1		-30.611	-19	Pass		
Measurement 2		-28.649	-19	Pass		
Upper Band Edge						
Measurement 1		-30.544	-19	Pass		
Measurement 2		-28.267	-19	Pass		
64QAM Modulation						
Lower Band Edge						
Measurement 1		-30.701	-19	Pass		
Measurement 2		-28.533	-19	Pass		
Upper Band Edge						
Measurement 1		-30.731	-19	Pass		
Measurement 2		-28.269	-19	Pass		
256QAM Modulation						
Lower Band Edge						
Measurement 1		-30.57	-19	Pass		
Measurement 2		-28.385	-19	Pass		
Upper Band Edge						
Measurement 1		-30.413	-19	Pass		
Measurement 2		-28.098	-19	Pass		
Band 14 Multicarrier						
QPSK Modulation						
Lower Band Edge						
Measurement 1		-26.892	-19	Pass		
Measurement 2		-24.633	-19	Pass		
Upper Band Edge						
Measurement 1		-30.36	-19	Pass		
Measurement 2		-27.882	-19	Pass		
Measurement 3		-58.786	-52	Pass		
Measurement 4		-69.812	-52	Pass		
16QAM Modulation						
Lower Band Edge						
Measurement 1		-27.403	-19	Pass		
Measurement 2		-24.361	-19	Pass		
Upper Band Edge						
Measurement 1		-30.276	-19	Pass		
Measurement 2		-28.022	-19	Pass		
Measurement 3		-58.411	-52	Pass		
Measurement 4		-69.97	-52	Pass		
64QAM Modulation						
Lower Band Edge						
Measurement 1		-27.146	-19	Pass		
Measurement 2		-24.5	-19	Pass		
Upper Band Edge						
Measurement 1		-30.601	-19	Pass		
Measurement 2		-27.781	-19	Pass		
Measurement 3		-58.997	-52	Pass		
Measurement 4		-70.058	-52	Pass		
256QAM Modulation						
Lower Band Edge						
Measurement 1		-27.256	-19	Pass		
Measurement 2		-24.498	-19	Pass		
Upper Band Edge						
Measurement 1		-30.318	-19	Pass		
Measurement 2		-28.034	-19	Pass		
Measurement 3		-58.896	-52	Pass		
Measurement 4		-69.988	-52	Pass		

BAND EDGE COMPLIANCE

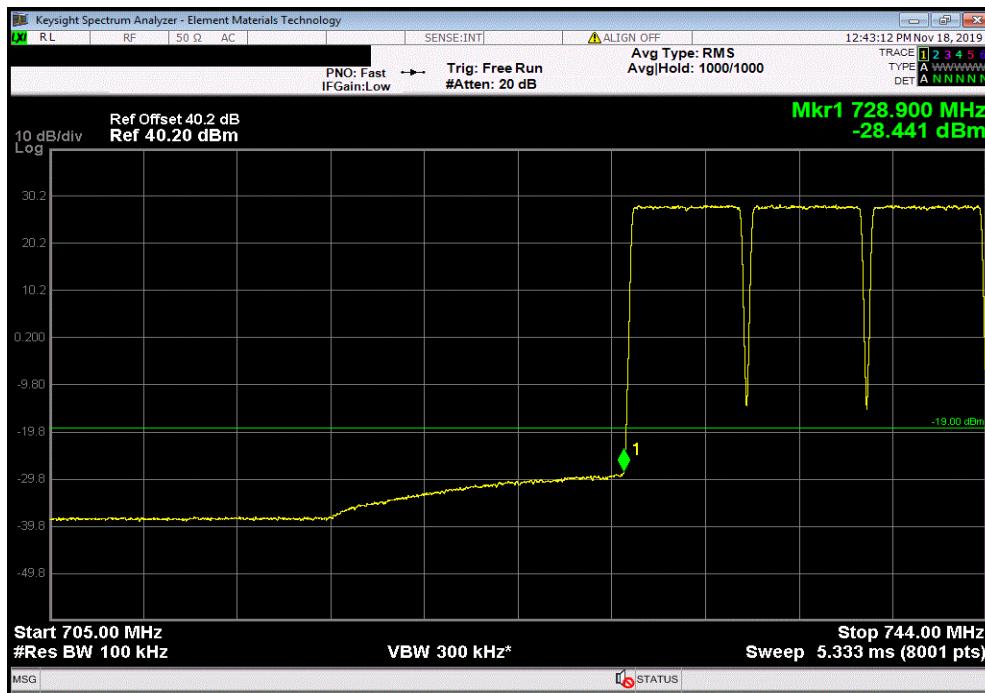


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Band 12 Multicarrier, QPSK Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-30.101	-19	Pass



Band 12 Multicarrier, QPSK Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-28.441	-19	Pass



BAND EDGE COMPLIANCE

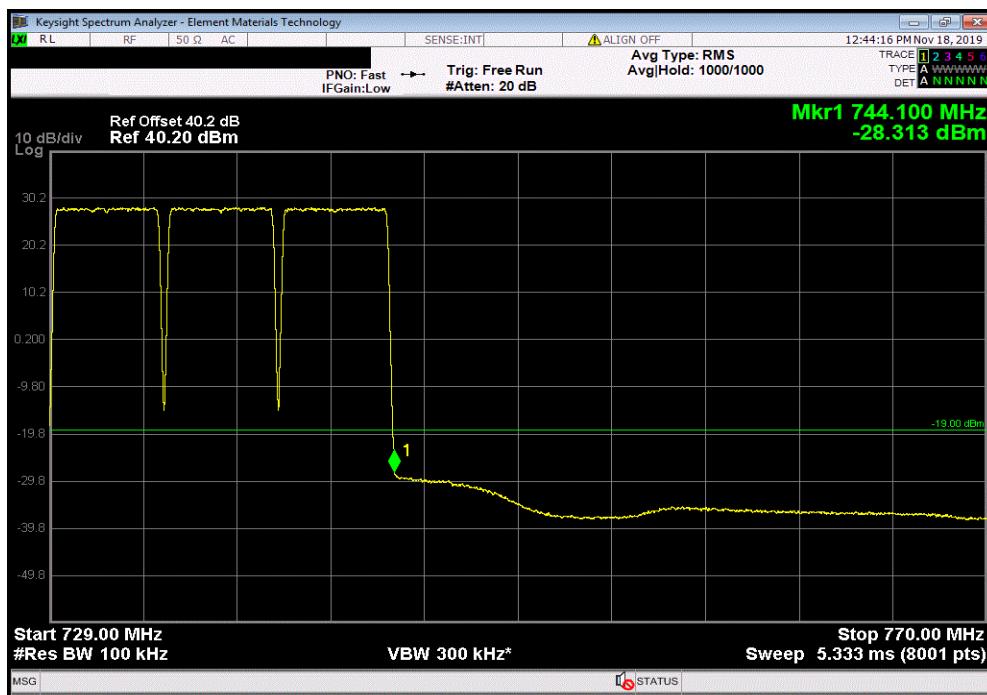


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Band 12 Multicarrier, QPSK Modulation, Upper Band Edge, Measurement 1			
	Value	Limit	Result
	-30.016	-19	Pass



Band 12 Multicarrier, QPSK Modulation, Upper Band Edge, Measurement 2			
	Value	Limit	Result
	-28.313	-19	Pass

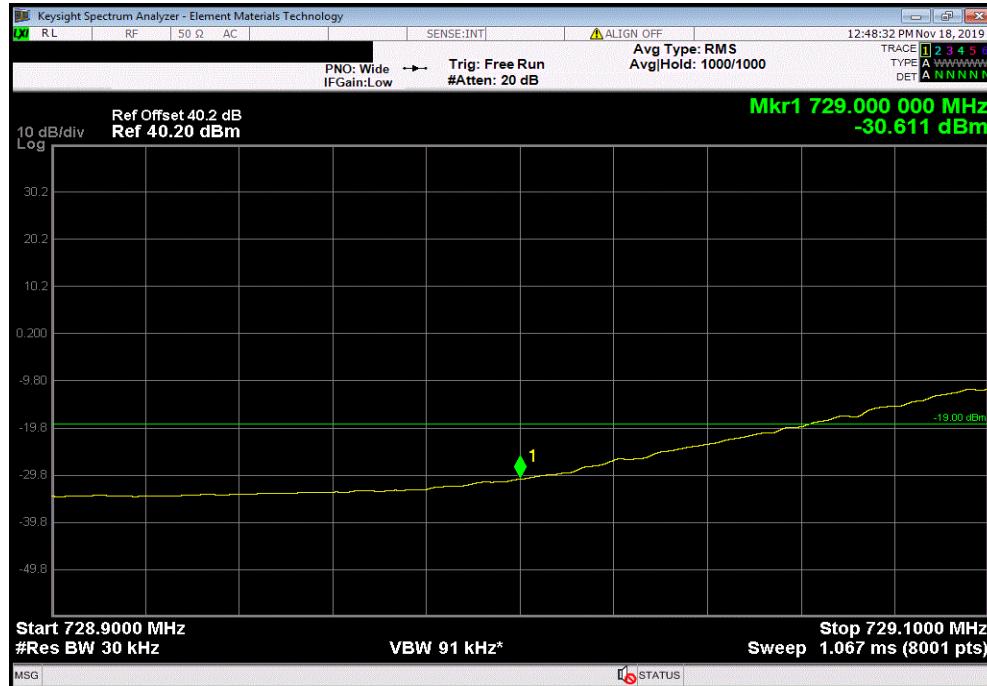


BAND EDGE COMPLIANCE

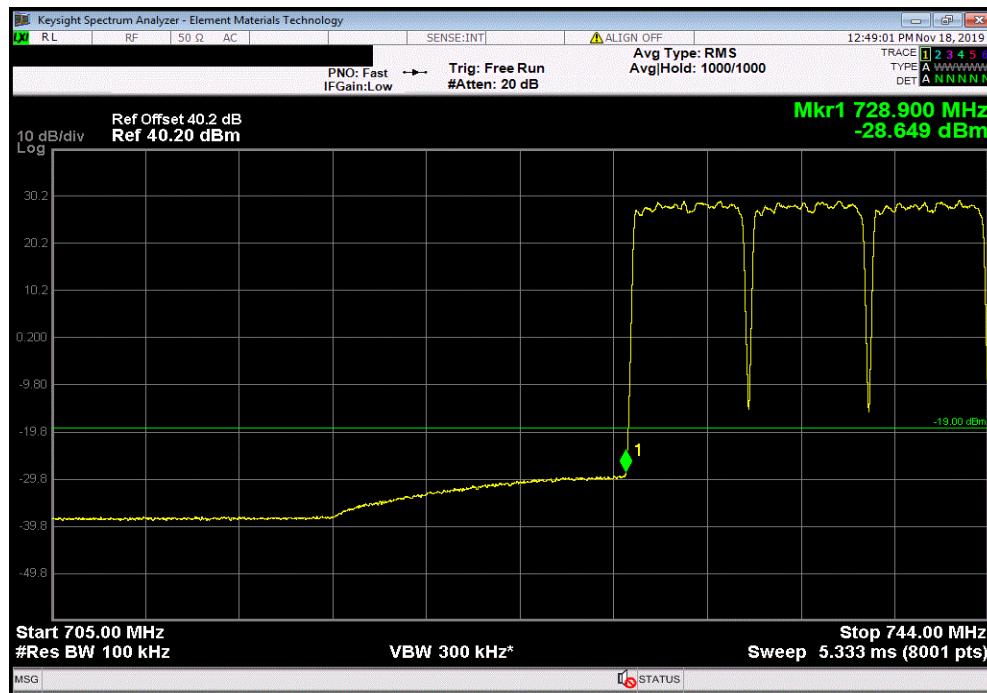


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Band 12 Multicarrier, 16QAM Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-30.611	-19	Pass



Band 12 Multicarrier, 16QAM Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-28.649	-19	Pass



BAND EDGE COMPLIANCE

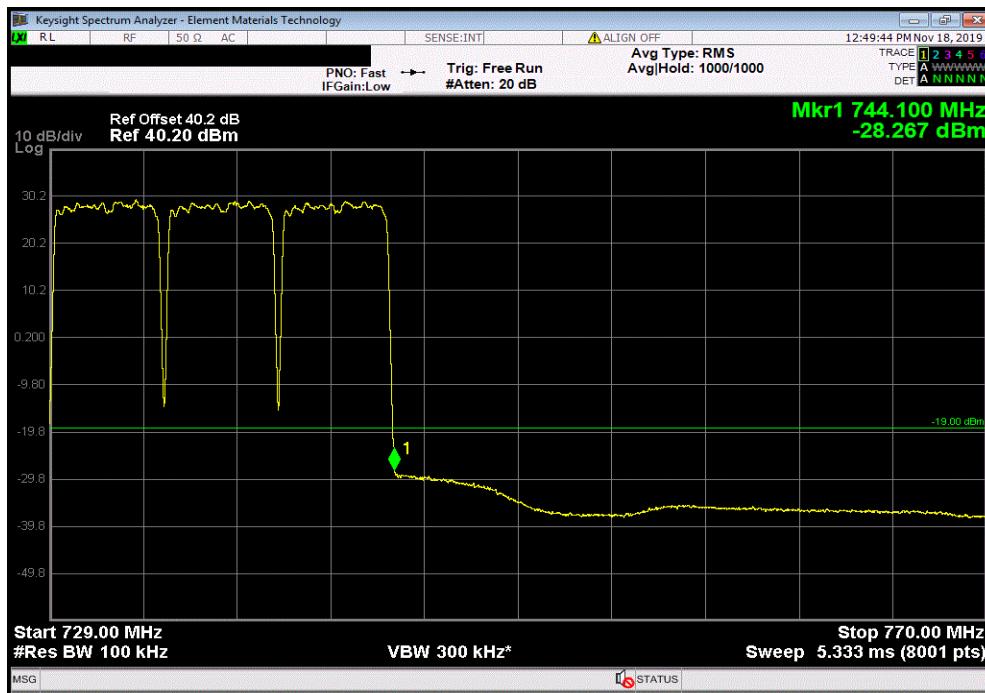


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Band 12 Multicarrier, 16QAM Modulation, Upper Band Edge, Measurement 1			
	Value	Limit	Result
	-30.544	-19	Pass



Band 12 Multicarrier, 16QAM Modulation, Upper Band Edge, Measurement 2			
	Value	Limit	Result
	-28.267	-19	Pass

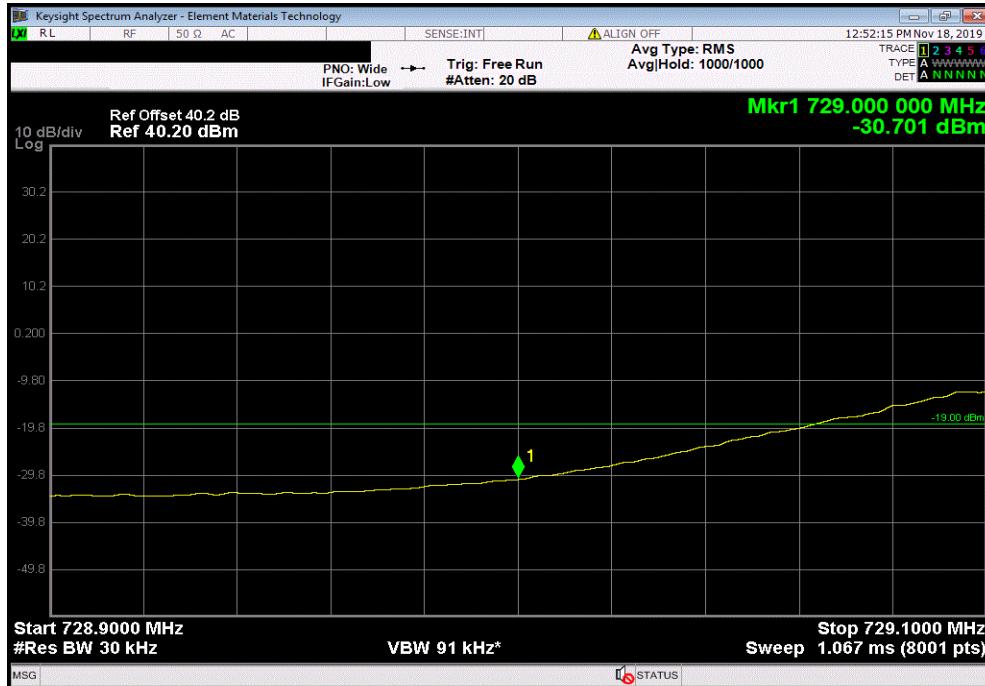


BAND EDGE COMPLIANCE

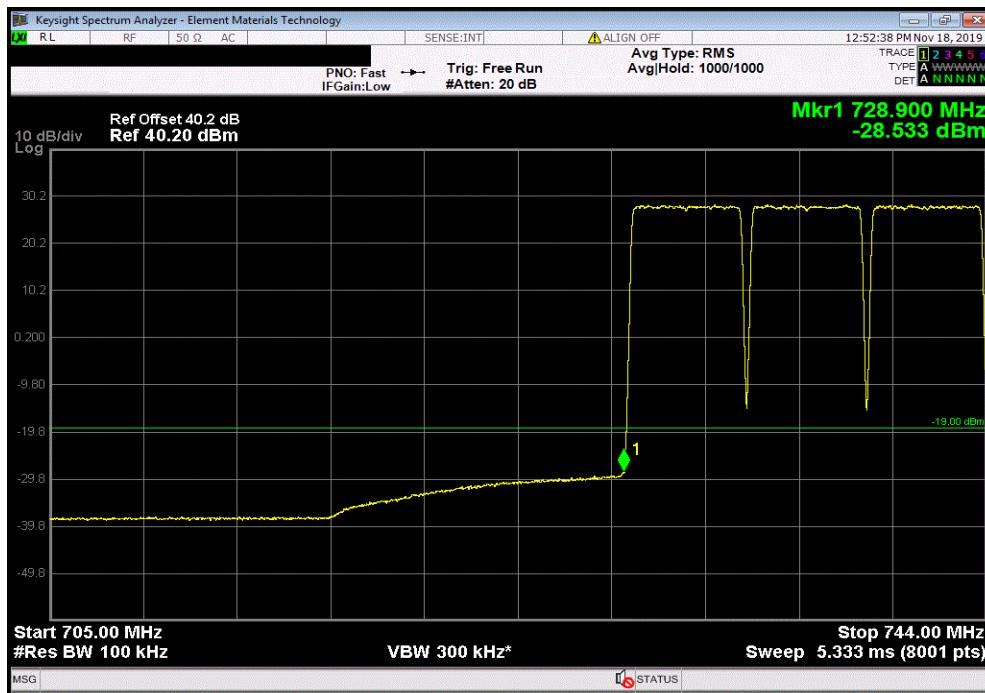


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Band 12 Multicarrier, 64QAM Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-30.701	-19	Pass



Band 12 Multicarrier, 64QAM Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-28.533	-19	Pass



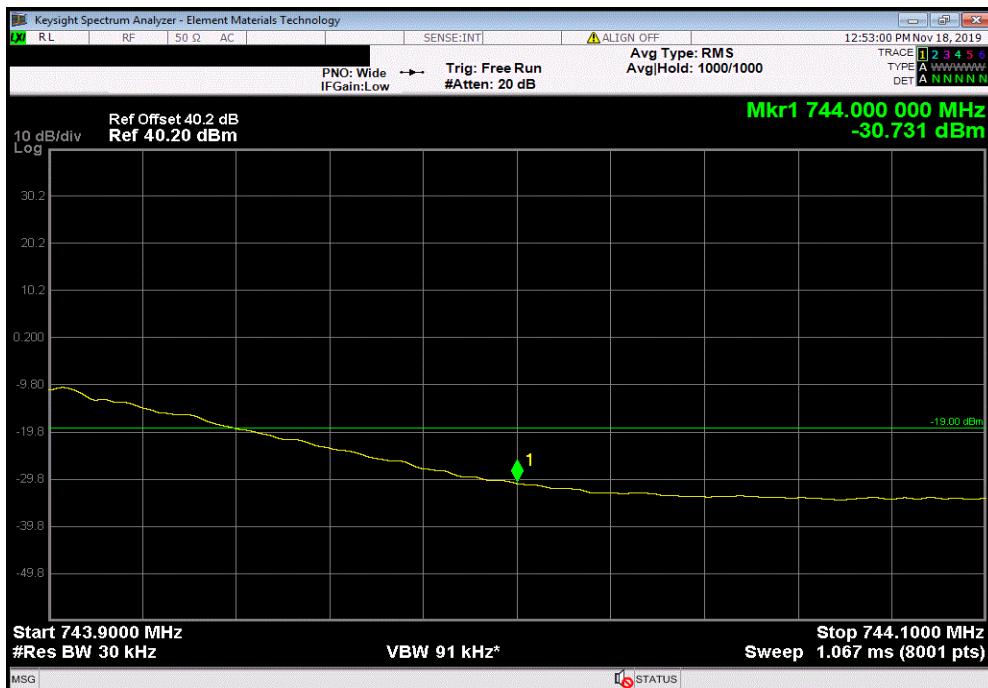
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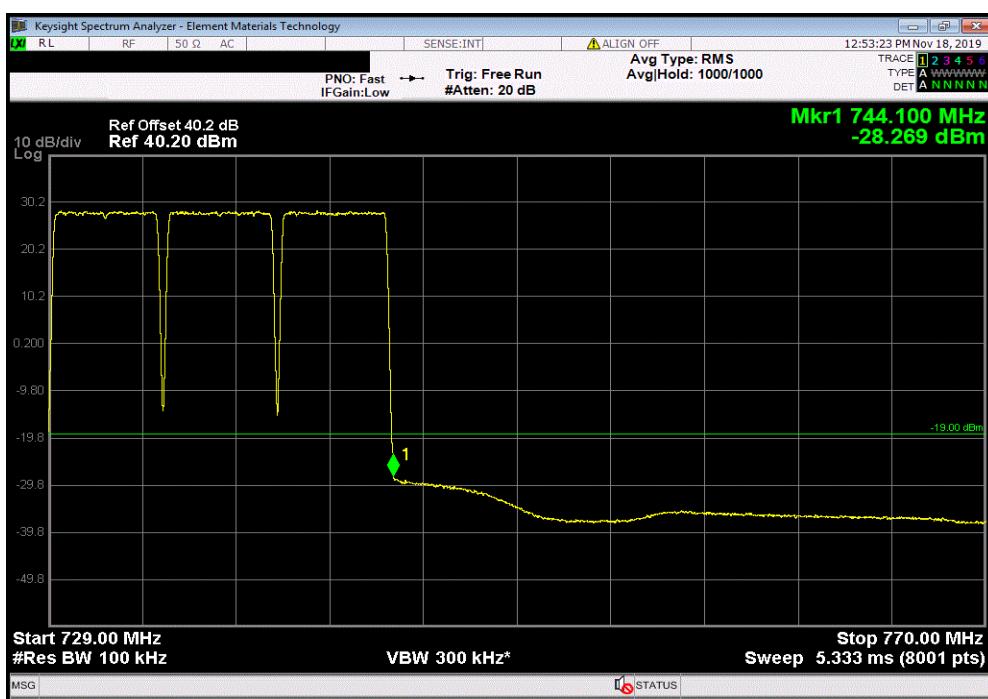
Band 12 Multicarrier, 64QAM Modulation, Upper Band Edge, Measurement 1

				Value	Limit	Result
				-30 731	-19	Pass



Band 12 Multicarrier, 64QAM Modulation, Upper Band Edge, Measurement 2

				Value	Limit	Result
				28 260	10	Pass

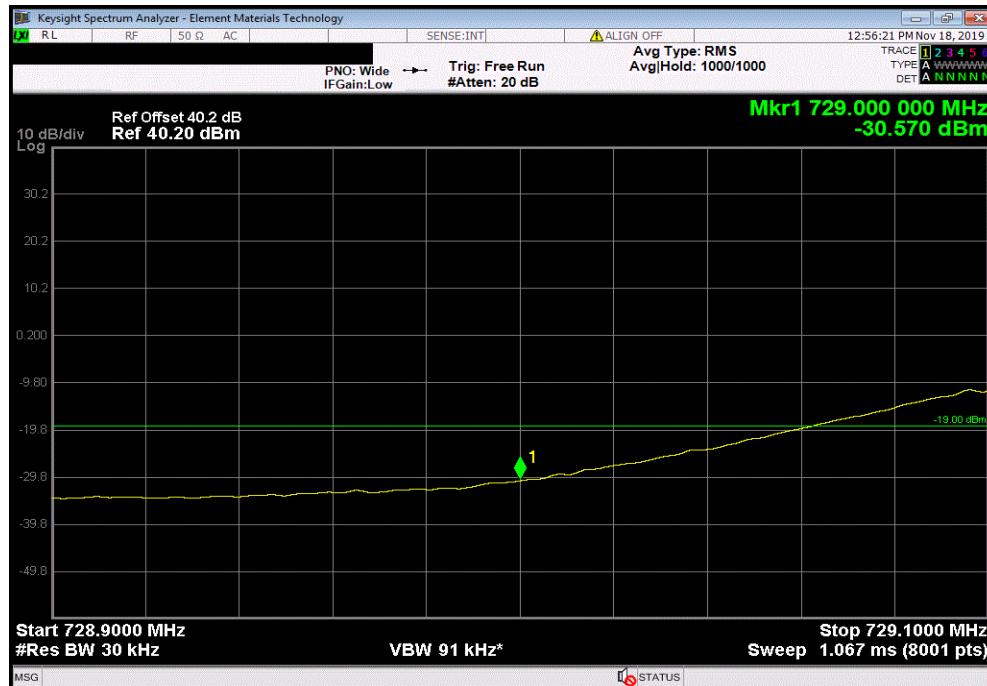


BAND EDGE COMPLIANCE



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Band 12 Multicarrier, 256QAM Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-30.57	-19	Pass



Band 12 Multicarrier, 256QAM Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-28.385	-19	Pass



BAND EDGE COMPLIANCE

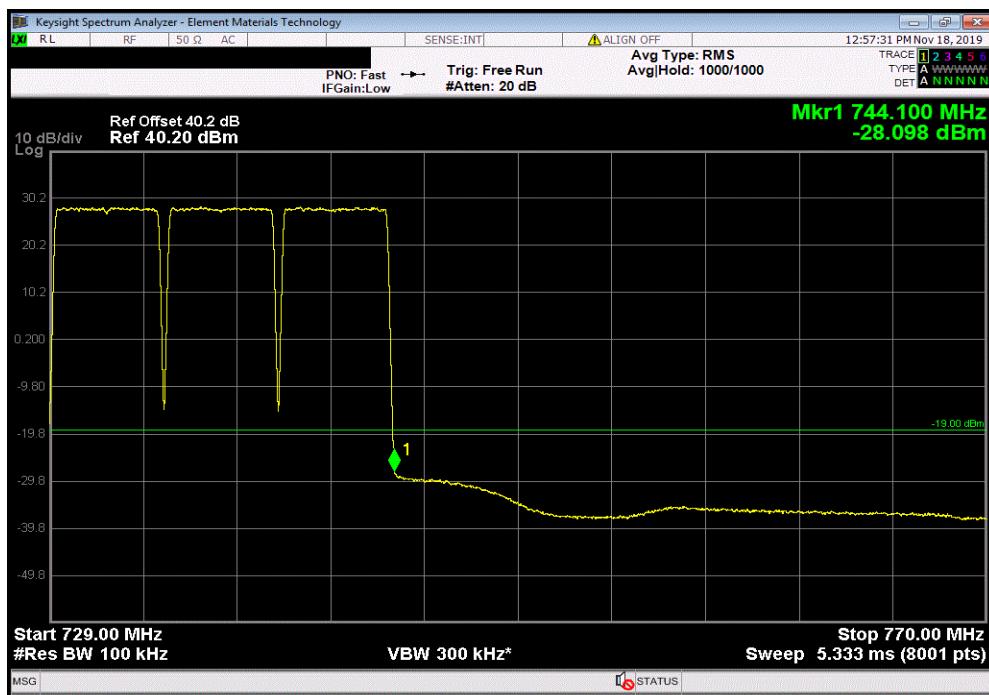


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Band 12 Multicarrier, 256QAM Modulation, Upper Band Edge, Measurement 1			
	Value	Limit	Result
	-30.413	-19	Pass



Band 12 Multicarrier, 256QAM Modulation, Upper Band Edge, Measurement 2			
	Value	Limit	Result
	-28.098	-19	Pass

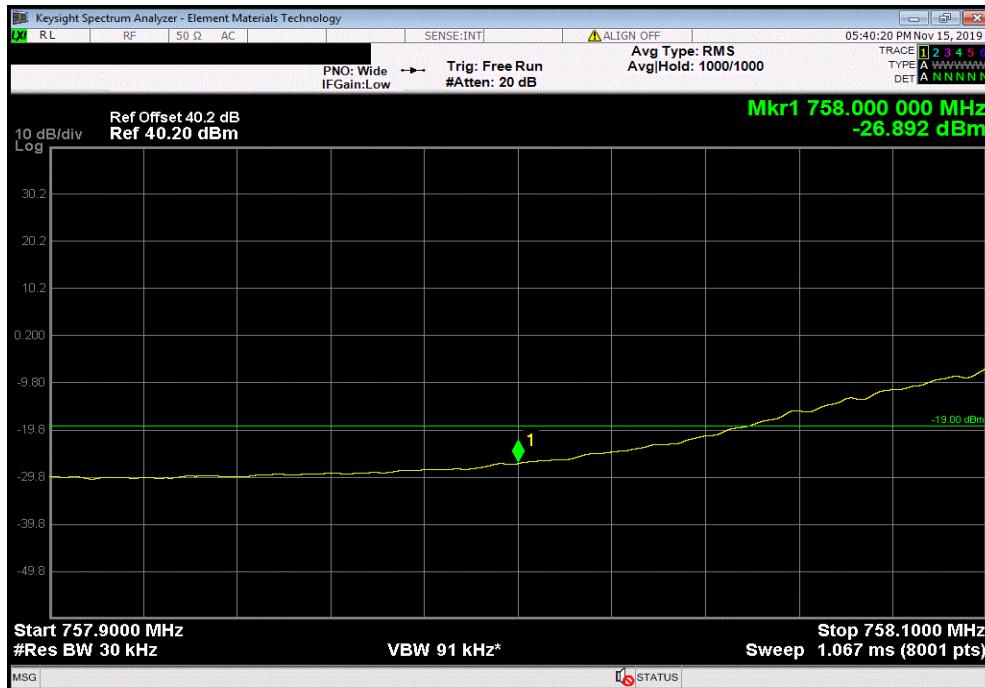


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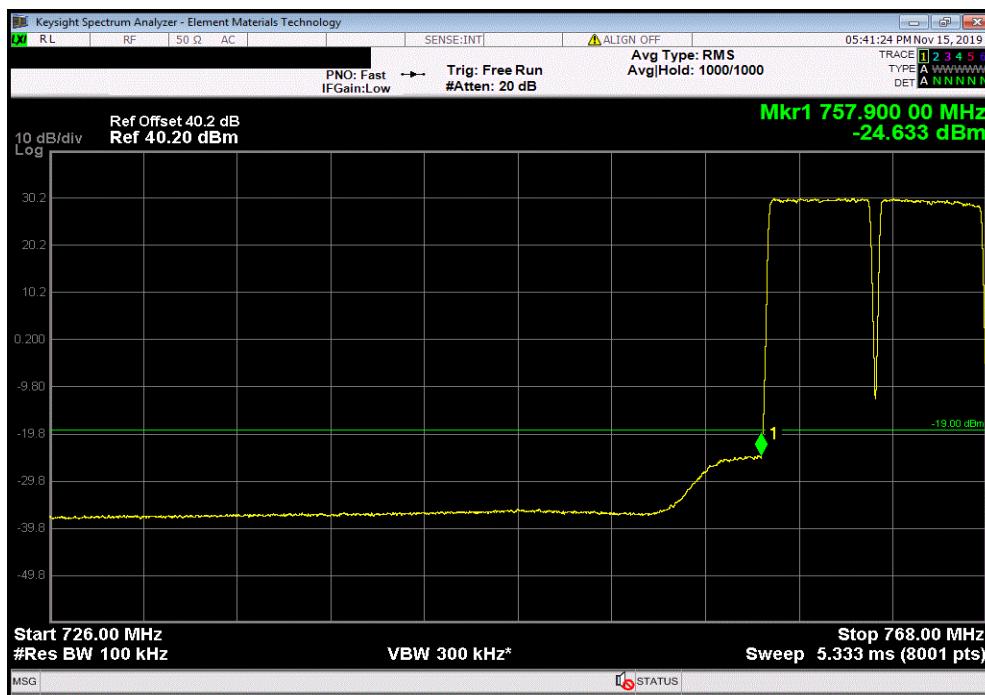


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Band 14 Multicarrier, QPSK Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-26.892	-19	Pass



Band 14 Multicarrier, QPSK Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-24.633	-19	Pass



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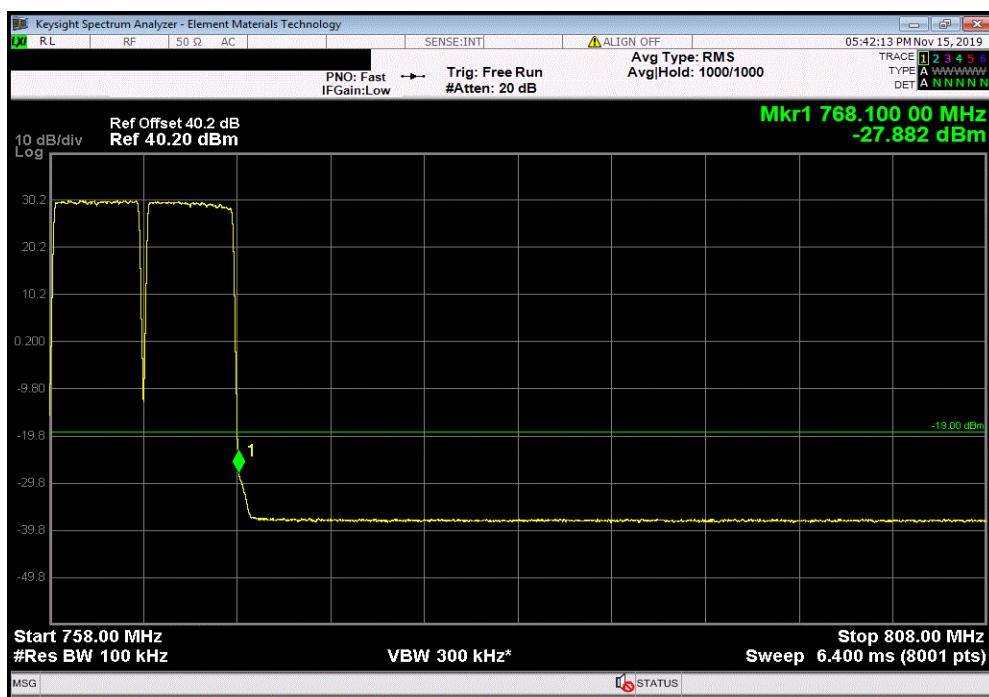
Band 14 Multicarrier, QPSK Modulation, Upper Band Edge, Measurement 1

	Value	Limit	Result
	-30.36	-19	Pass



Band 14 Multicarrier, QPSK Modulation, Upper Band Edge, Measurement 2

	Value	Limit	Result
	-27.882	-19	Pass

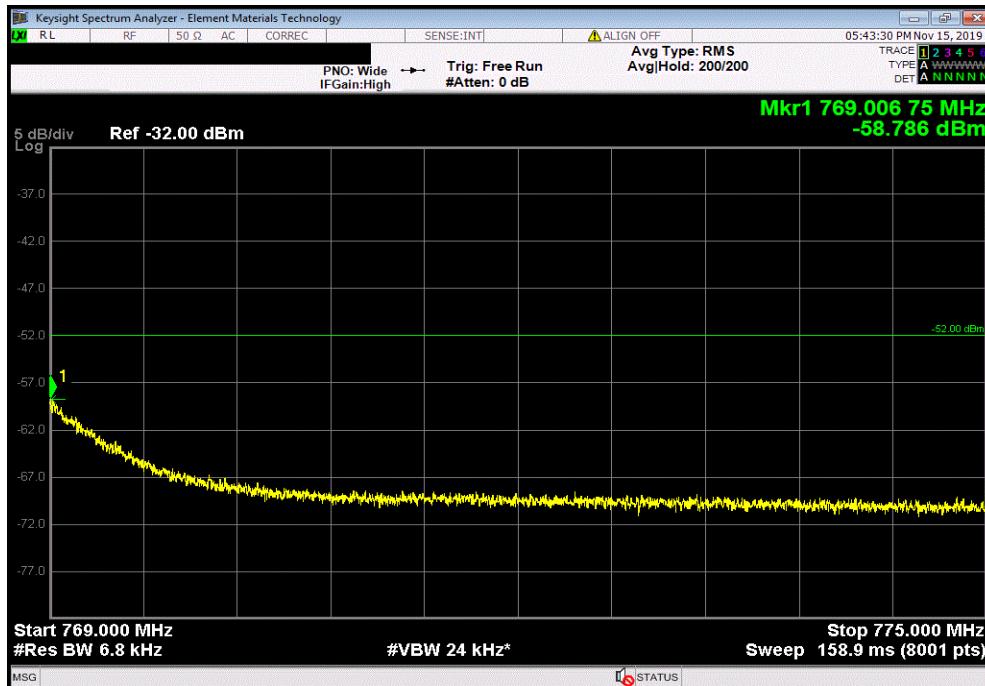


BAND EDGE COMPLIANCE

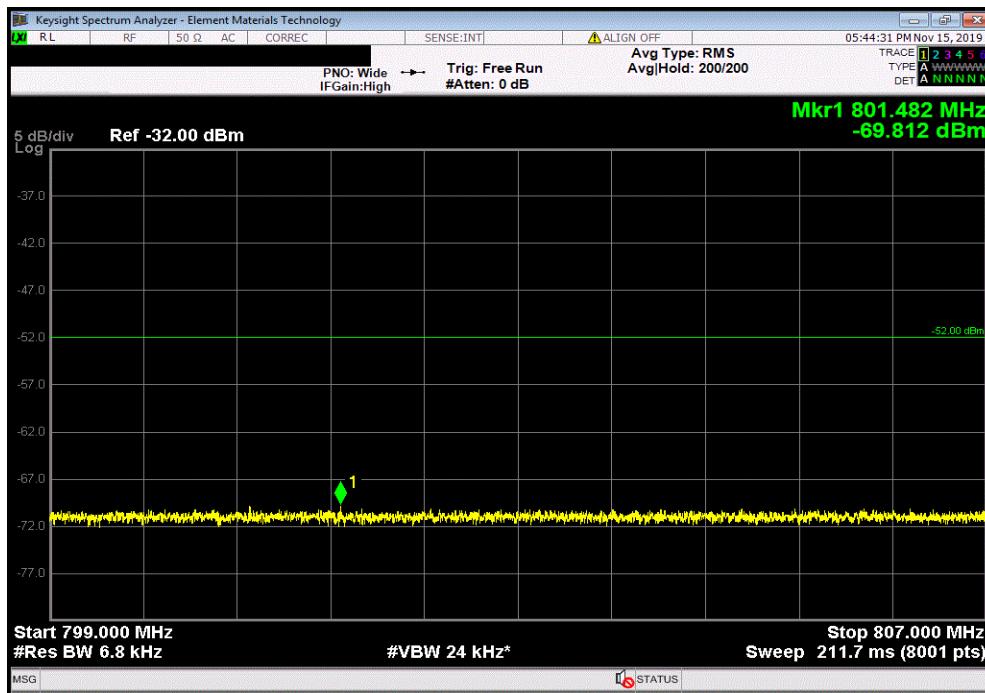


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Band 14 Multicarrier, QPSK Modulation, Upper Band Edge, Measurement 3			
	Value	Limit	Result
	-58.786	-52	Pass



Band 14 Multicarrier, QPSK Modulation, Upper Band Edge, Measurement 4			
	Value	Limit	Result
	-69.812	-52	Pass

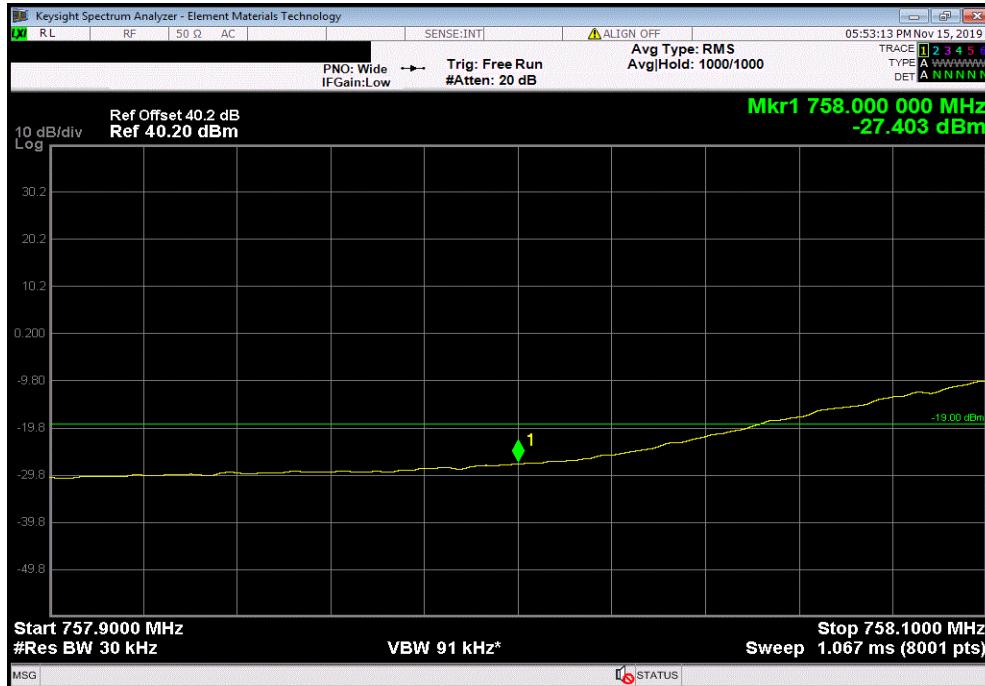


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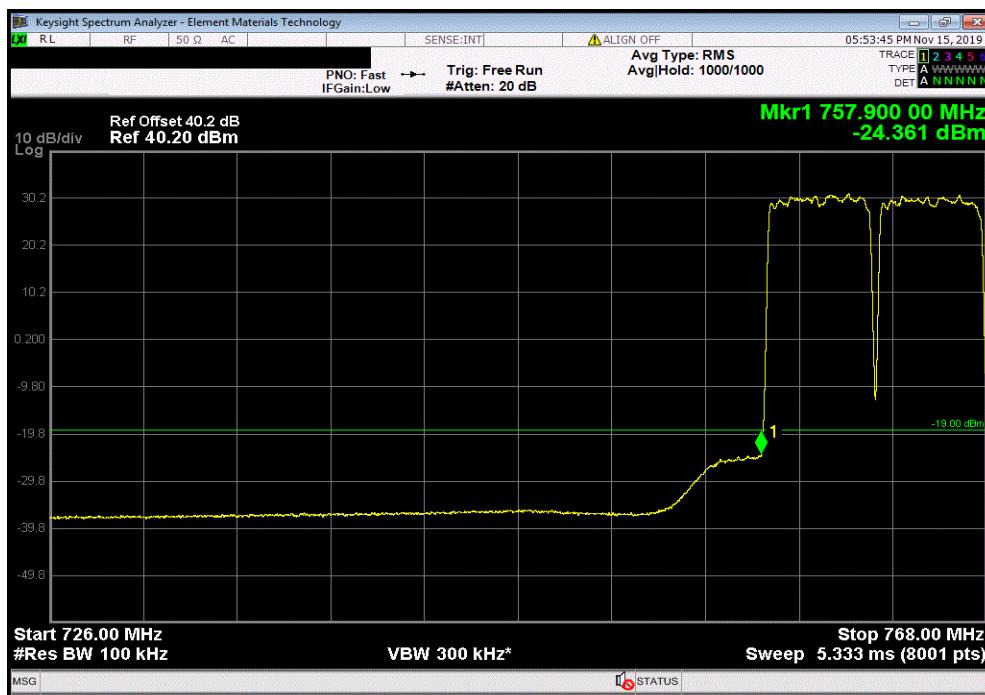


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Band 14 Multicarrier, 16QAM Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-27.403	-19	Pass



Band 14 Multicarrier, 16QAM Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-24.361	-19	Pass

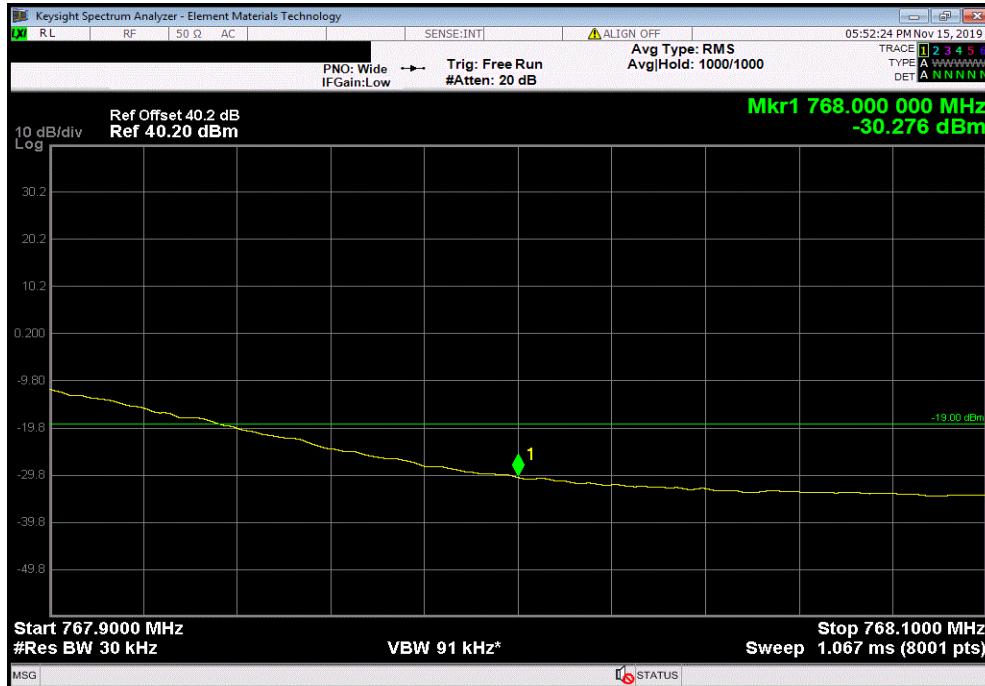


BAND EDGE COMPLIANCE

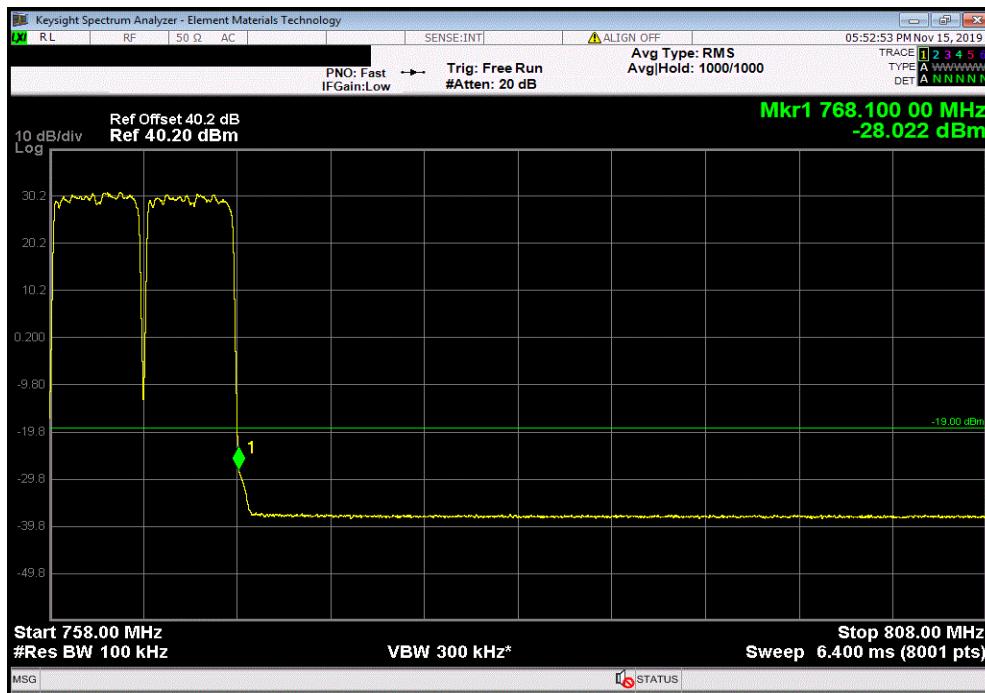


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Band 14 Multicarrier, 16QAM Modulation, Upper Band Edge, Measurement 1			
	Value	Limit	Result
	-30.276	-19	Pass



Band 14 Multicarrier, 16QAM Modulation, Upper Band Edge, Measurement 2			
	Value	Limit	Result
	-28.022	-19	Pass

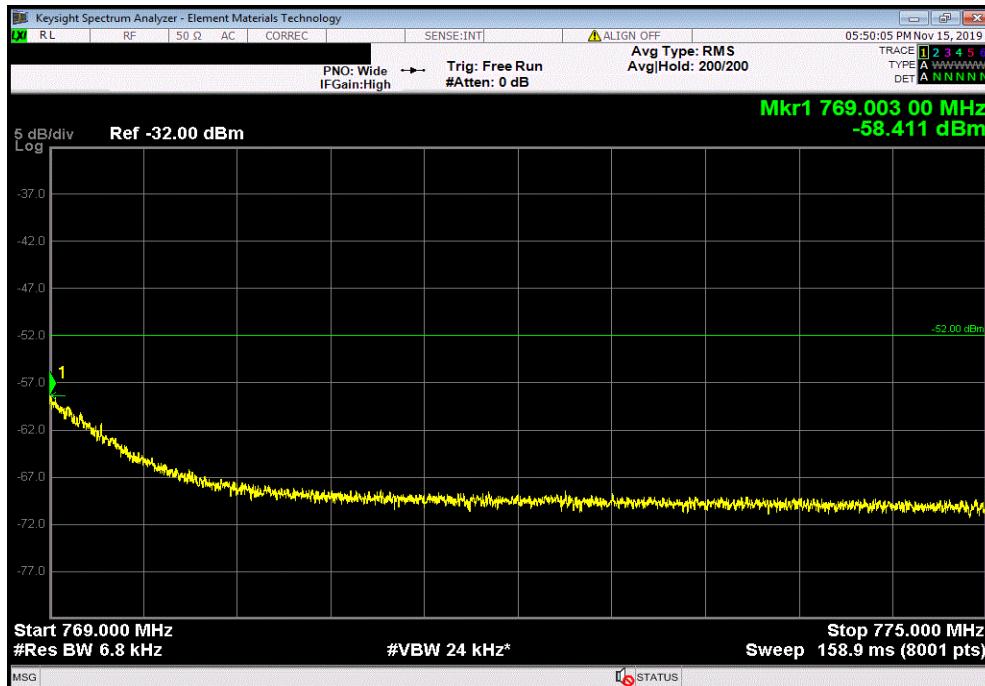


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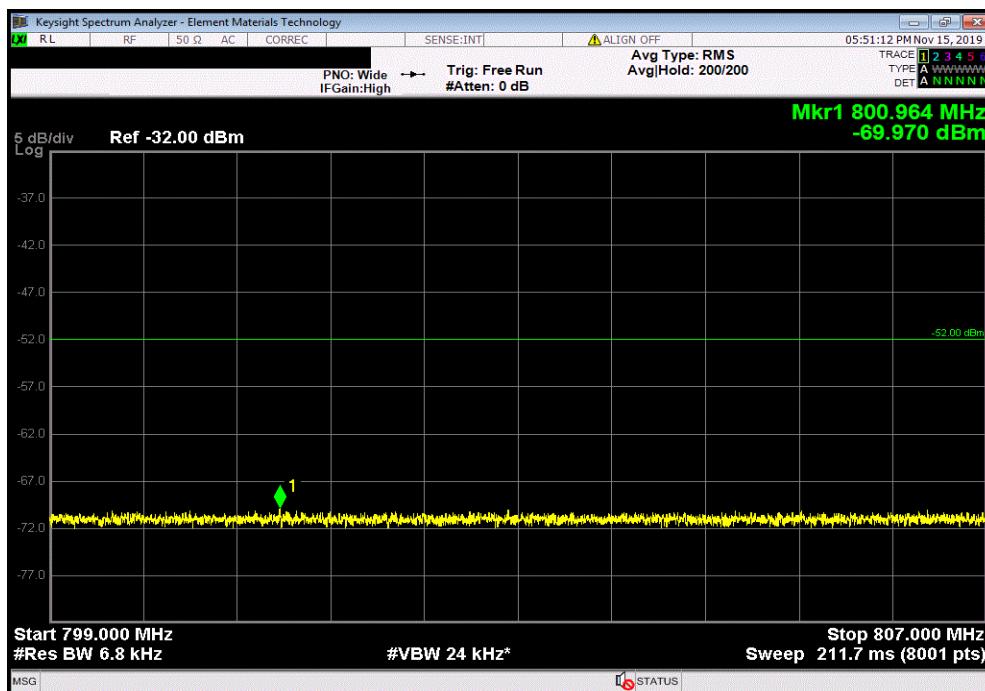


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Band 14 Multicarrier, 16QAM Modulation, Upper Band Edge, Measurement 3			
	Value	Limit	Result
	-58.411	-52	Pass



Band 14 Multicarrier, 16QAM Modulation, Upper Band Edge, Measurement 4			
	Value	Limit	Result
	-69.97	-52	Pass

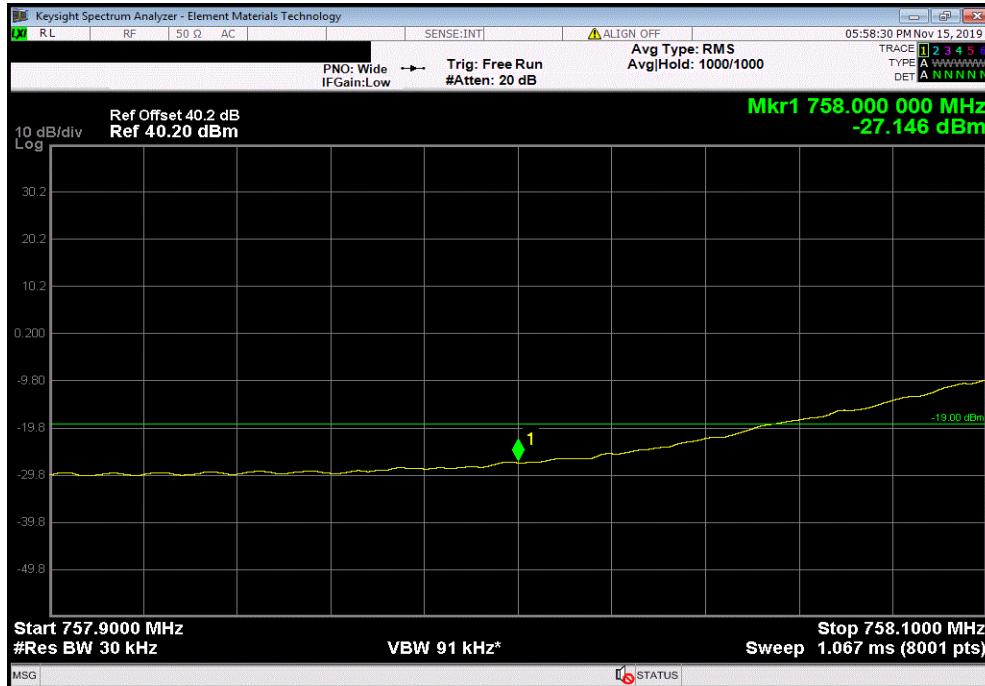


BAND EDGE COMPLIANCE

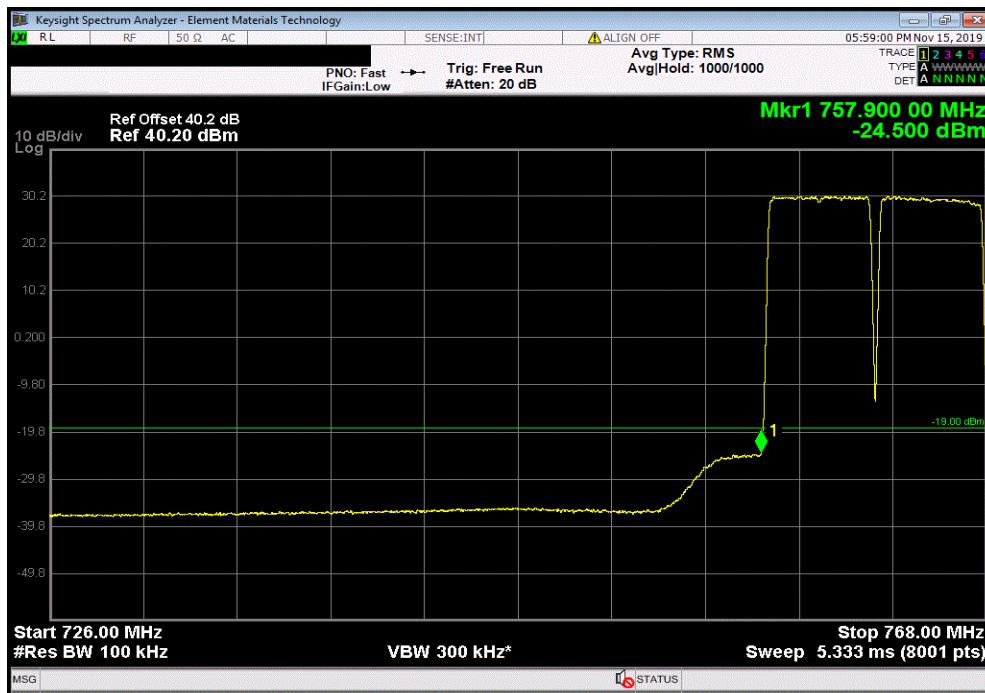


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Band 14 Multicarrier, 64QAM Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-27.146	-19	Pass



Band 14 Multicarrier, 64QAM Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-24.5	-19	Pass



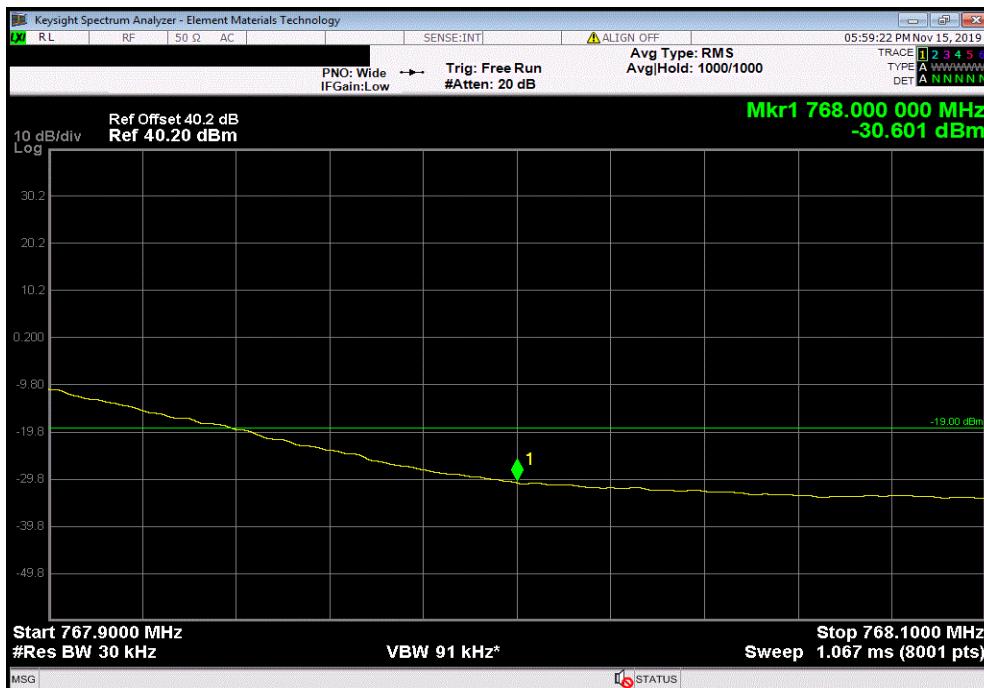
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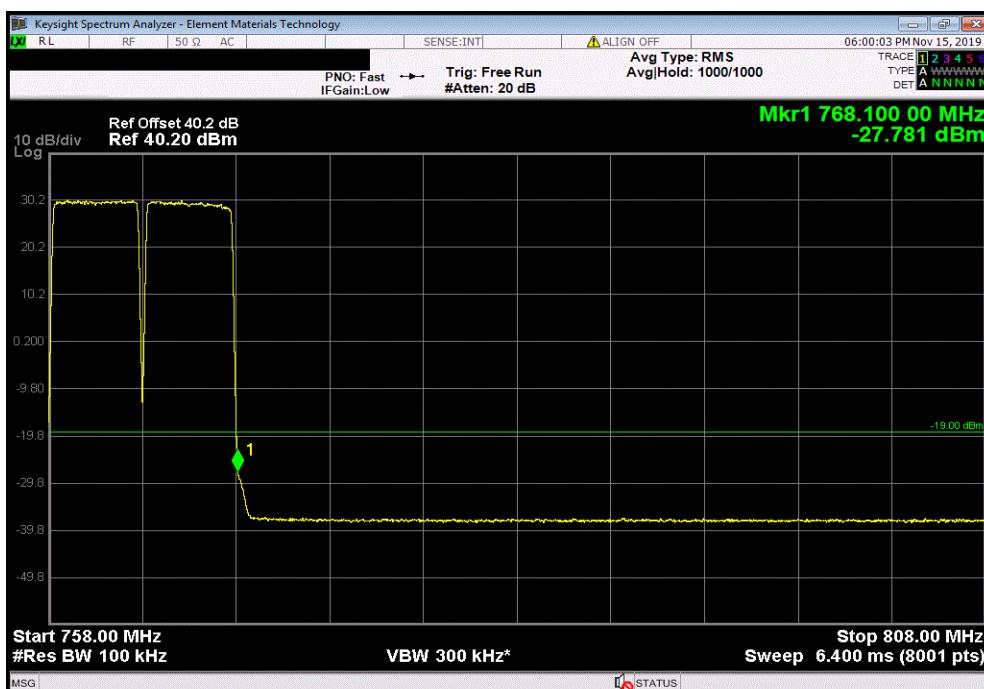
Band 14 Multicarrier, 64QAM Modulation, Upper Band Edge, Measurement 1

				Value	Limit	Result
				-30.601	-19	Pass



Band 14 Multicarrier, 64QAM Modulation, Upper Band Edge, Measurement 2

				Value	Limit	Result
				27,791	19	Pass

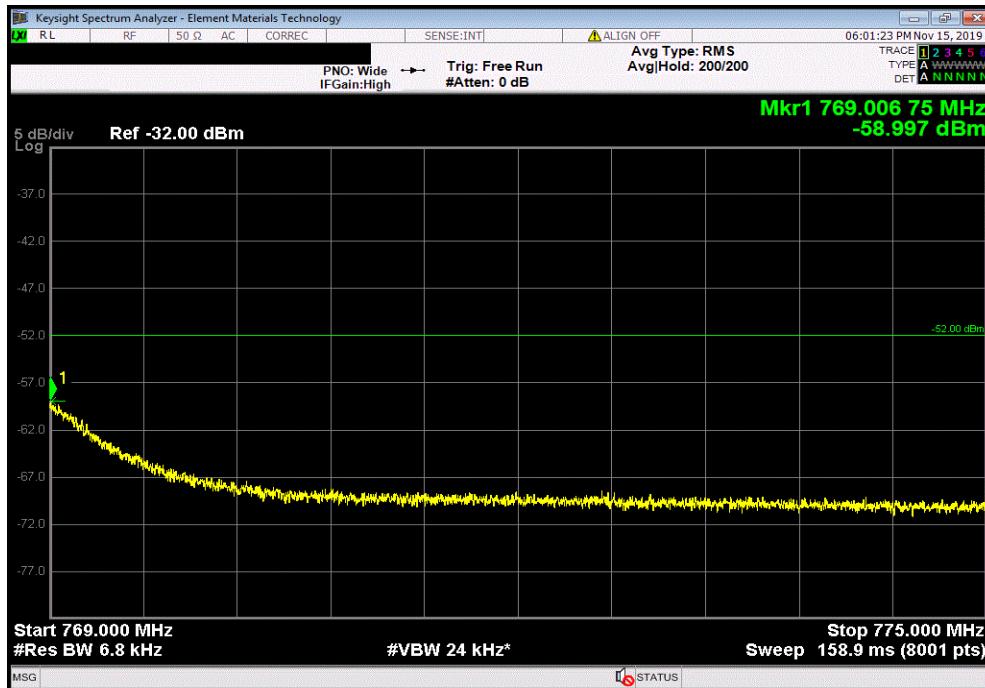


BAND EDGE COMPLIANCE

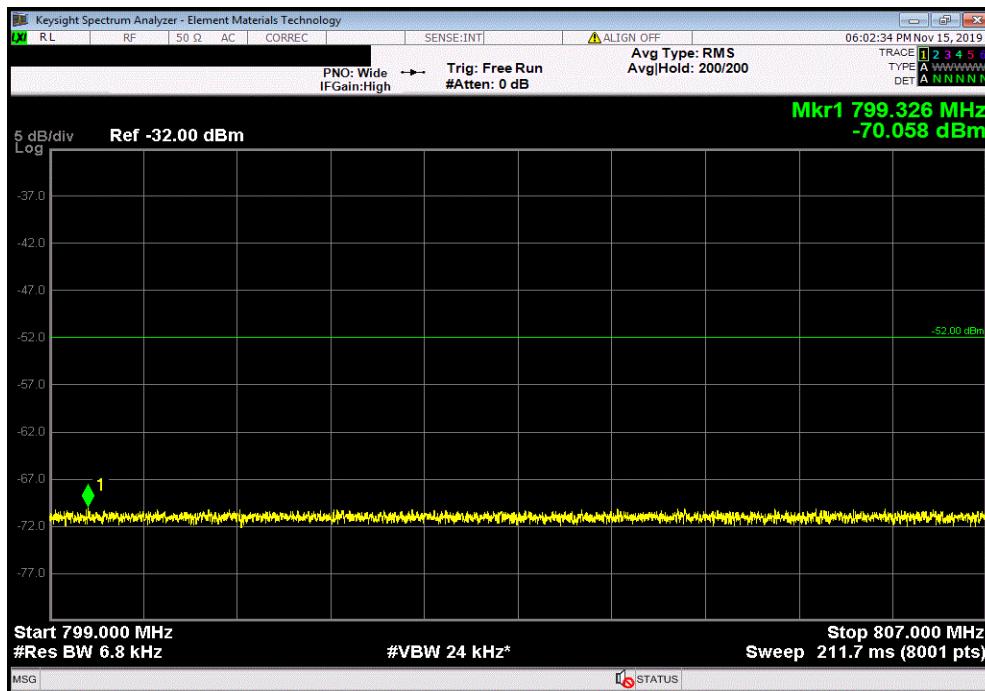


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Band 14 Multicarrier, 64QAM Modulation, Upper Band Edge, Measurement 3			
	Value	Limit	Result
	-58.997	-52	Pass



Band 14 Multicarrier, 64QAM Modulation, Upper Band Edge, Measurement 4			
	Value	Limit	Result
	-70.058	-52	Pass

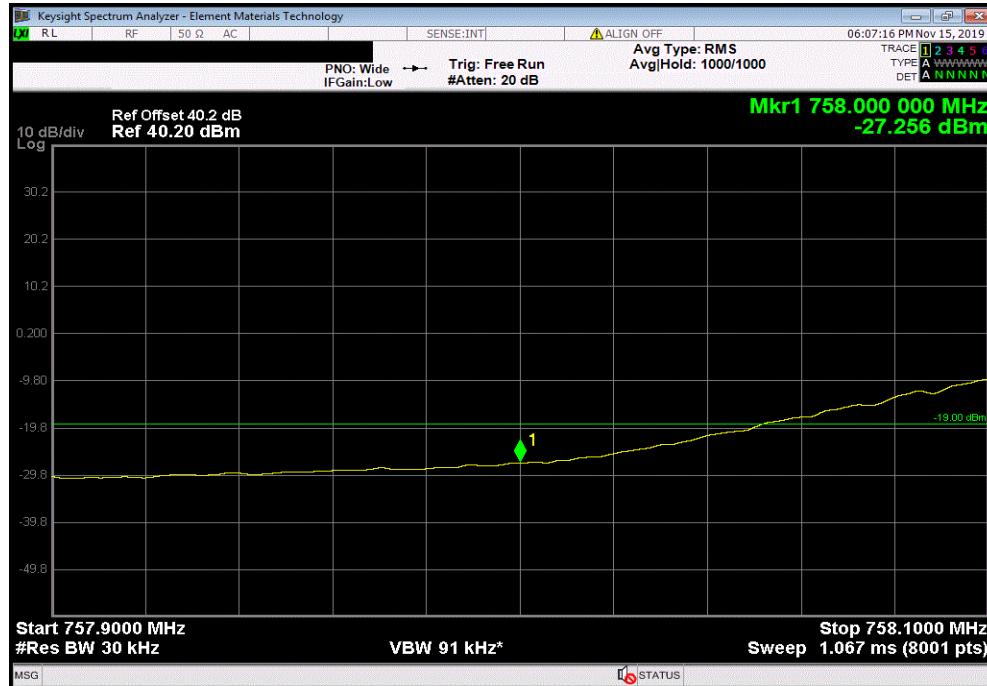


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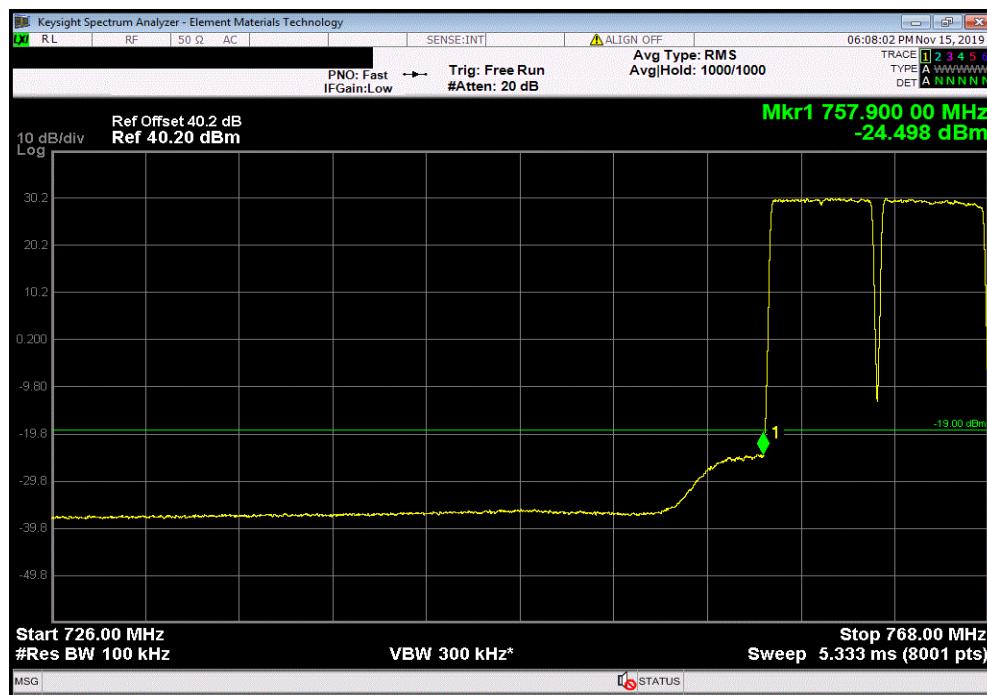


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Band 14 Multicarrier, 256QAM Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-27.256	-19	Pass



Band 14 Multicarrier, 256QAM Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-24.498	-19	Pass

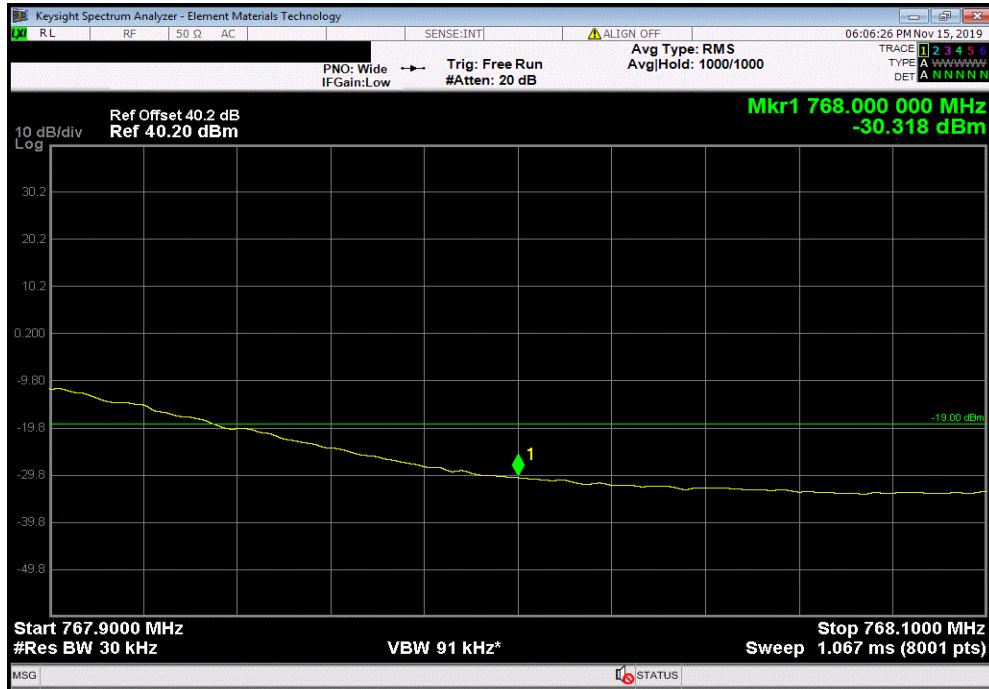


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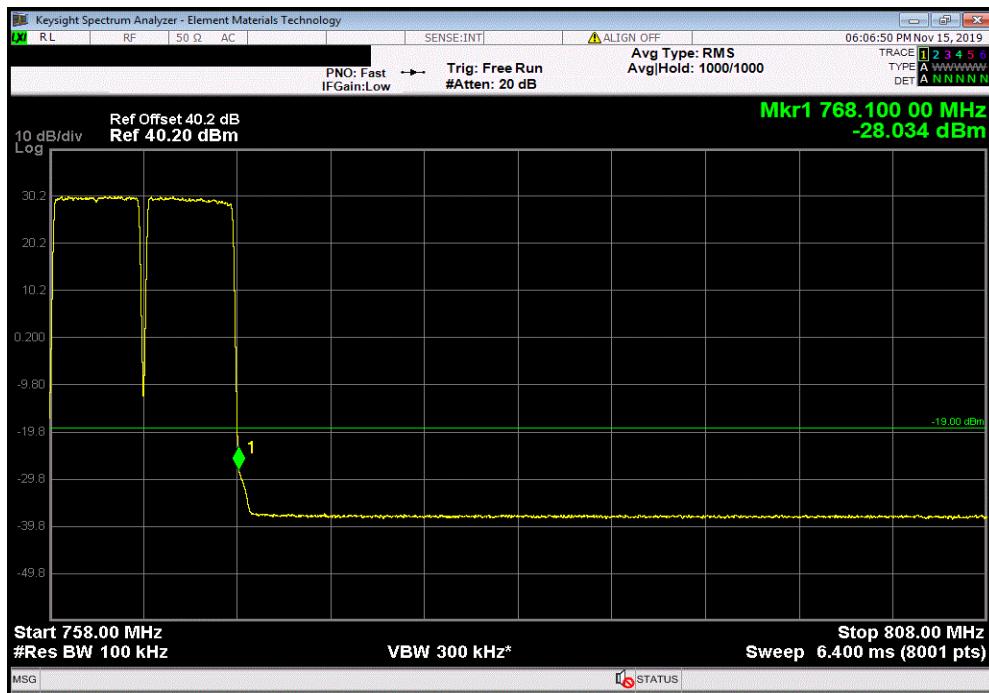


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Band 14 Multicarrier, 256QAM Modulation, Upper Band Edge, Measurement 1			
	Value	Limit	Result
	-30.318	-19	Pass



Band 14 Multicarrier, 256QAM Modulation, Upper Band Edge, Measurement 2			
	Value	Limit	Result
	-28.034	-19	Pass

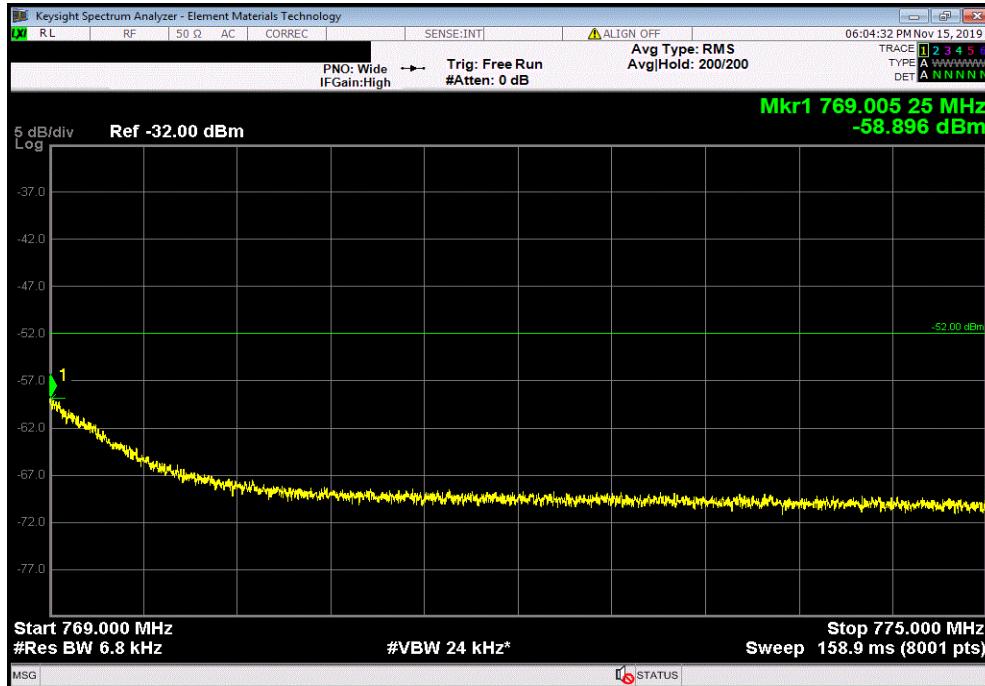


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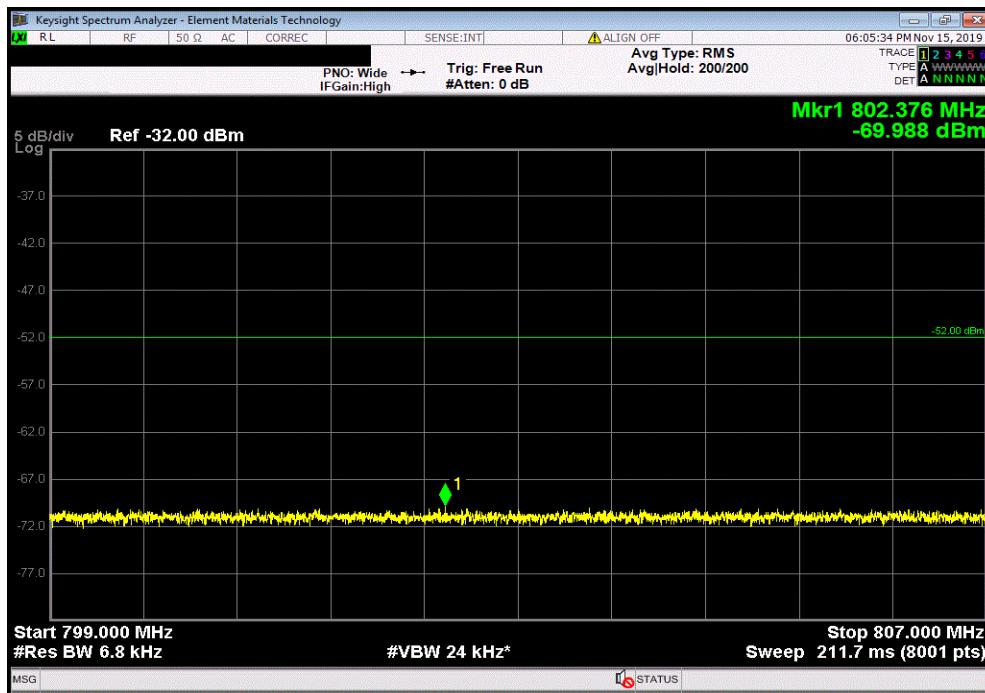


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Band 14 Multicarrier, 256QAM Modulation, Upper Band Edge, Measurement 3			
	Value	Limit	Result
	-58.896	-52	Pass



Band 14 Multicarrier, 256QAM Modulation, Upper Band Edge, Measurement 4			
	Value	Limit	Result
	-69.988	-52	Pass



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Correction Factor (dB)	44.3	4.2	44.1	43.3	42.9	41.9	41.8	41.1	41.1

Per FCC section 27.53(g), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm $[-13 \text{ dBm} - 10 \log (4)]$ per FCC KDB 662911D01 v02r01 because the RRH may operate as a 4 port MIMO transmitter for Band 12.

FCC 27.53(g) requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 27.53(g) 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.

Per section 90.543(e)(3), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm $[-13 \text{ dBm} - 10 \log (4)]$ per FCC KDB 662911D01 v02r01 because the RRH may operate as a 4 port MIMO transmitter for Band 14.

FCC 90.543(e)(5) requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 90.543(e)(5) 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.

FCC 90.543(e)(1) requires an emission limit of -46 dBm for any 6.25 kHz bandwidth between frequency bands 769-775 MHz and 799-805 MHz. The limit is adjusted to -52 dBm per 6.25kHz bandwidth $[-46 \text{ dBm} - 10 \log (4)]$ per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

BAND EDGE COMPLIANCE



XMI 2019.05

EUT:	AHLBBA RRH	Work Order:	NOKI0004			
Serial Number:	K9193514835	Date:	19-Nov-19			
Customer:	Nokia Solutions and Networks	Temperature:	22.8 °C			
Attendees:	John Rattanavong	Humidity:	30.9% RH			
Project:	None	Barometric Pres.:	1017 mbar			
Tested by:	Jonathan Kiefer	Power:	54VDC			
TEST SPECIFICATIONS		Test Method	ANSI C63.26:2015			
FCC 27:2019			ANSI C63.26:2015			
FCC 90:2019			ANSI C63.26:2015			
COMMENTS	Band 12 Multicarrier and Band 14 Multicarrier band edge measurements. Tested on highest power antenna port (Port 2). EUT is operated at 100% duty cycle.					
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	2, 3	Signature	<i>Jonathan Kiefer</i>			
		Value	Limit	Result		
Band 12 Multicarrier						
QPSK Modulation						
Lower Band Edge						
Measurement 1		-26.185	-19	Pass		
Measurement 2		-25.003	-19	Pass		
Upper Band Edge						
Measurement 1		-25.563	-19	Pass		
Measurement 2		-23.951	-19	Pass		
16QAM Modulation						
Lower Band Edge						
Measurement 1		-26.322	-19	Pass		
Measurement 2		-25.356	-19	Pass		
Upper Band Edge						
Measurement 1		-26.151	-19	Pass		
Measurement 2		-24.018	-19	Pass		
64QAM Modulation						
Lower Band Edge						
Measurement 1		-26.825	-19	Pass		
Measurement 2		-24.665	-19	Pass		
Upper Band Edge						
Measurement 1		-26.254	-19	Pass		
Measurement 2		-23.841	-19	Pass		
256QAM Modulation						
Lower Band Edge						
Measurement 1		-26.726	-19	Pass		
Measurement 2		-25.111	-19	Pass		
Upper Band Edge						
Measurement 1		-26.16	-19	Pass		
Measurement 2		-23.682	-19	Pass		
Band 14 Multicarrier						
QPSK Modulation						
Lower Band Edge						
Measurement 1		-23.594	-19	Pass		
Measurement 2		-23.283	-19	Pass		
Upper Band Edge						
Measurement 1		-26.524	-19	Pass		
Measurement 2		-26.325	-19	Pass		
Measurement 3		-58.956	-52	Pass		
Measurement 4		-69.775	-52	Pass		
16QAM Modulation						
Lower Band Edge						
Measurement 1		-24.369	-19	Pass		
Measurement 2		-23.253	-19	Pass		
Upper Band Edge						
Measurement 1		-26.384	-19	Pass		
Measurement 2		-26.482	-19	Pass		
Measurement 3		-59.095	-52	Pass		
Measurement 4		-69.932	-52	Pass		
64QAM Modulation						
Lower Band Edge						
Measurement 1		-24.32	-19	Pass		
Measurement 2		-22.885	-19	Pass		
Upper Band Edge						
Measurement 1		-26.976	-19	Pass		
Measurement 2		-26.11	-19	Pass		
Measurement 3		-58.854	-52	Pass		
Measurement 4		-69.938	-52	Pass		
256QAM Modulation						
Lower Band Edge						
Measurement 1		-24.697	-19	Pass		
Measurement 2		-22.973	-19	Pass		
Upper Band Edge						
Measurement 1		-26.593	-19	Pass		
Measurement 2		-26.235	-19	Pass		
Measurement 3		-58.682	-52	Pass		
Measurement 4		-69.69	-52	Pass		

BAND EDGE COMPLIANCE

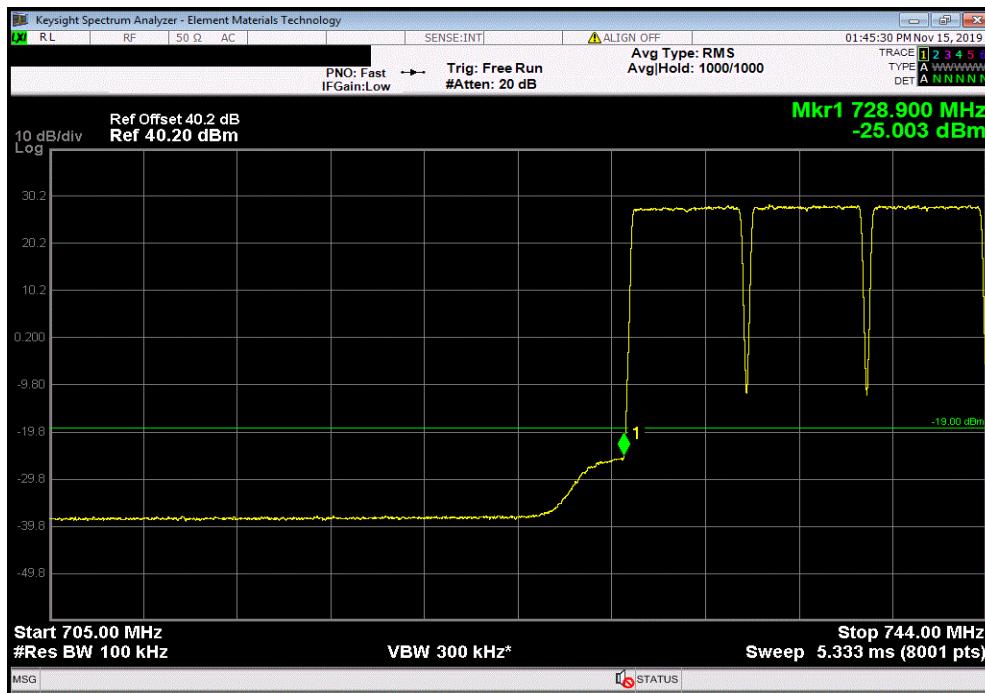


XMT 2019.09.05

Band 12 Multicarrier, QPSK Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-26.185	-19	Pass



Band 12 Multicarrier, QPSK Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-25.003	-19	Pass



BAND EDGE COMPLIANCE



XMT 2019.09.05

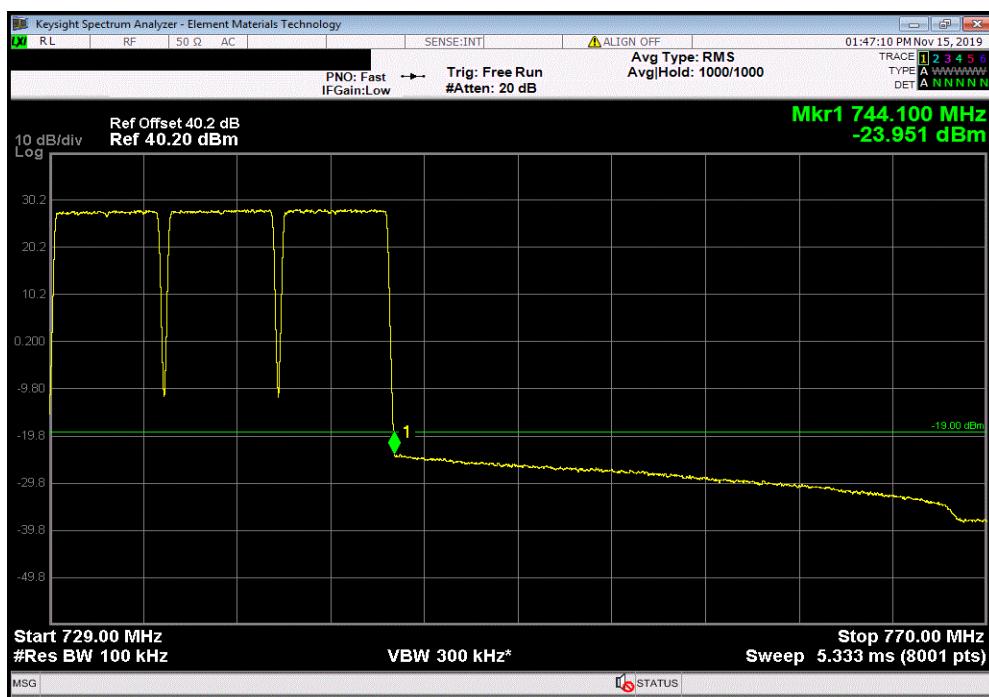
Band 12 Multicarrier, QPSK Modulation, Upper Band Edge, Measurement 1

	Value	Limit	Result
	-25.563	-19	Pass



Band 12 Multicarrier, QPSK Modulation, Upper Band Edge, Measurement 2

	Value	Limit	Result
	-23.951	-19	Pass

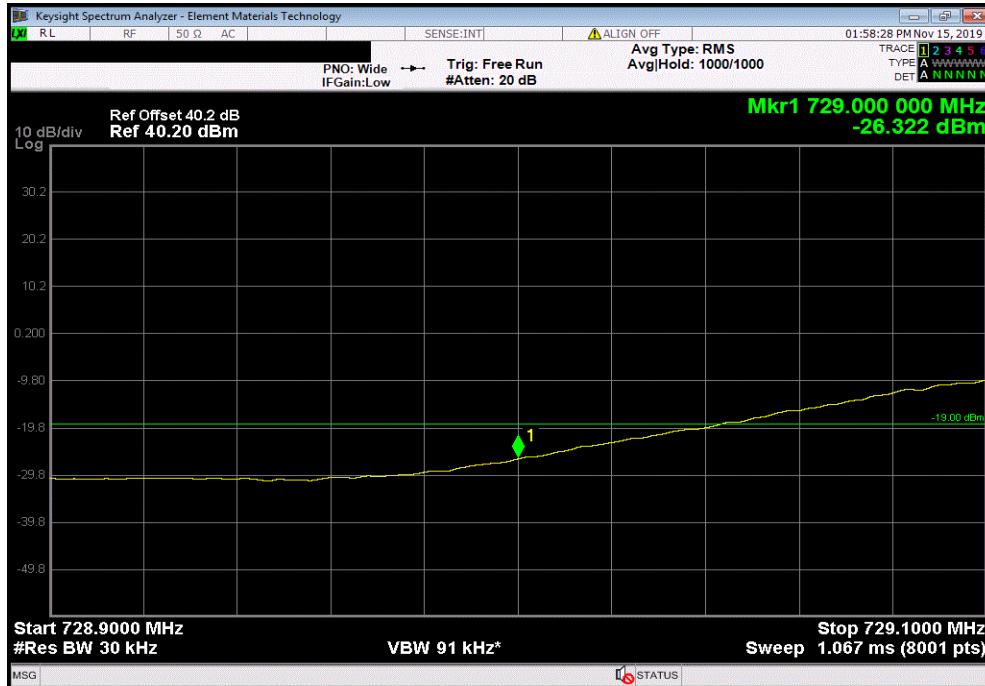


BAND EDGE COMPLIANCE

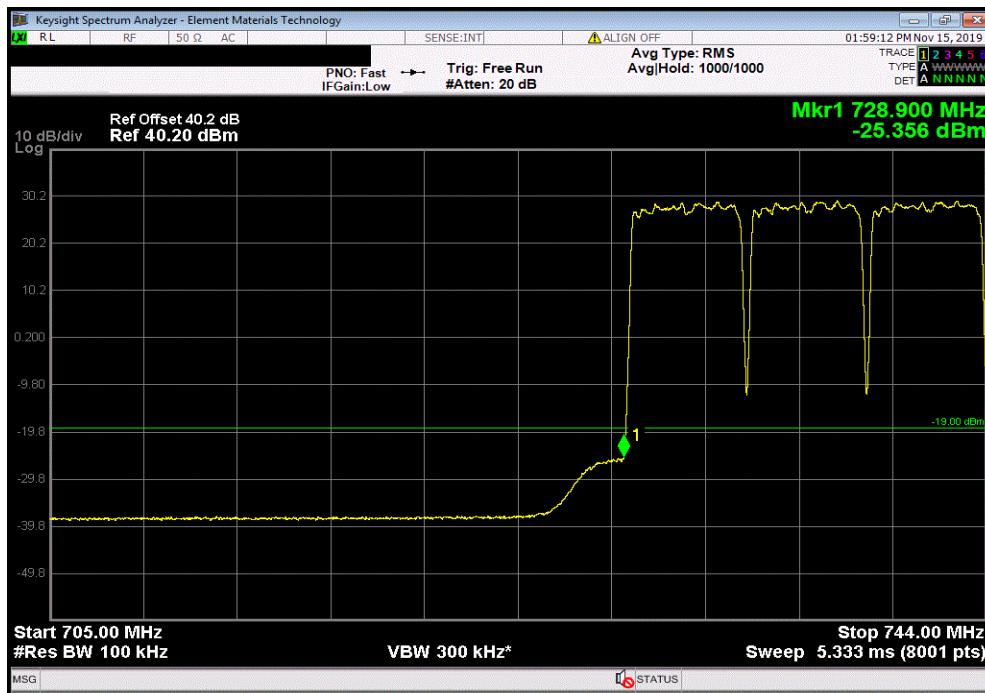


XMT 2019.09.05

Band 12 Multicarrier, 16QAM Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-26.322	-19	Pass



Band 12 Multicarrier, 16QAM Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-25.356	-19	Pass



BAND EDGE COMPLIANCE

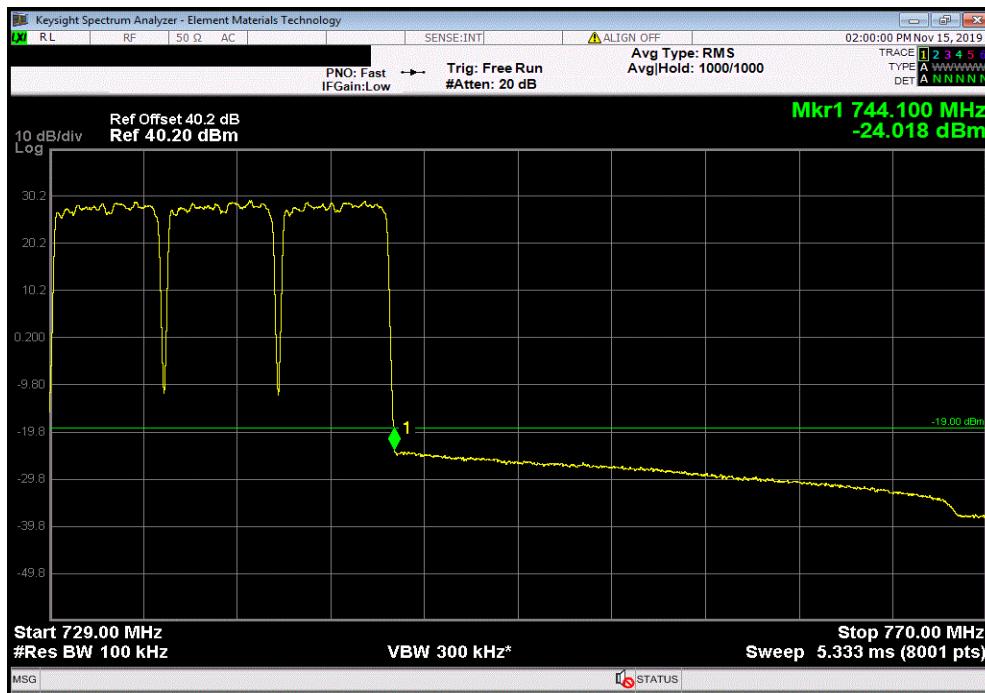


XMT 2019.09.05

Band 12 Multicarrier, 16QAM Modulation, Upper Band Edge, Measurement 1			
	Value	Limit	Result
	-26.151	-19	Pass



Band 12 Multicarrier, 16QAM Modulation, Upper Band Edge, Measurement 2			
	Value	Limit	Result
	-24.018	-19	Pass

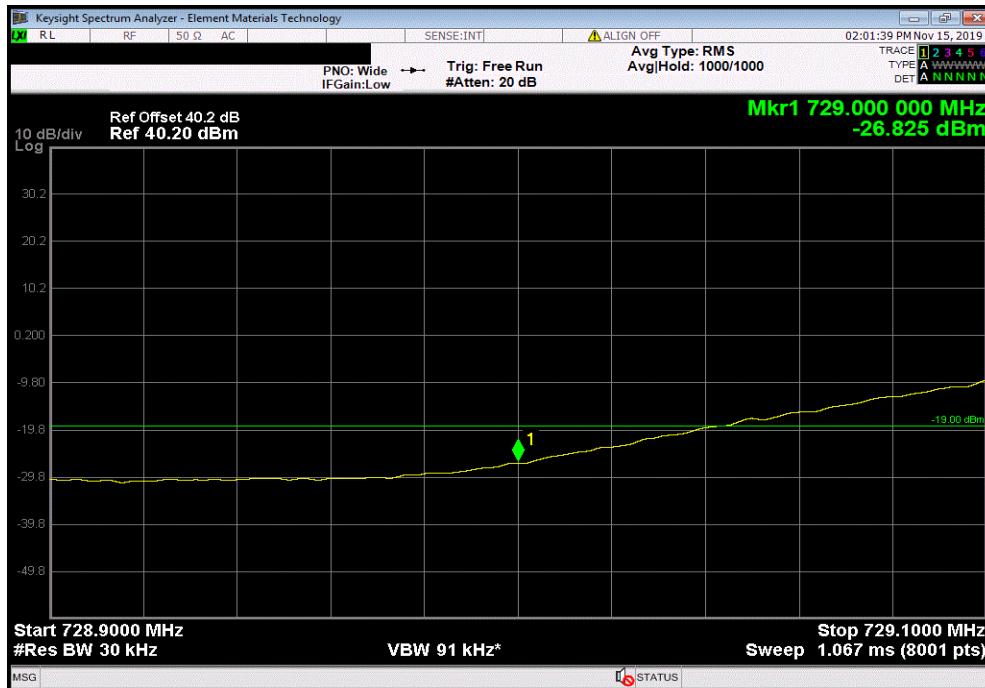


BAND EDGE COMPLIANCE

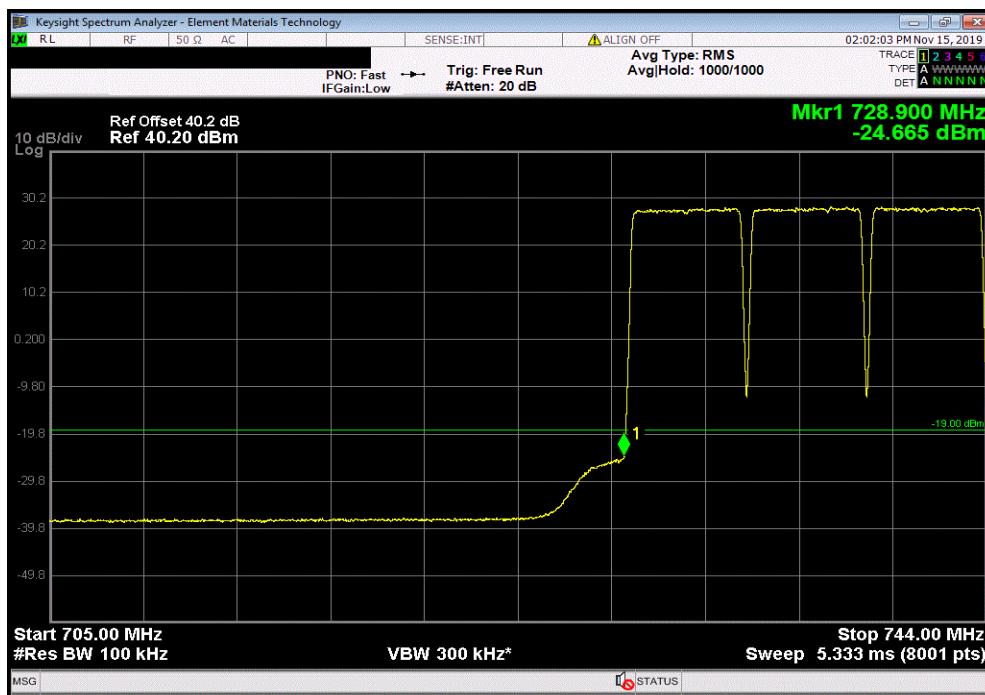


XMI 2019.09.05

Band 12 Multicarrier, 64QAM Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-26.825	-19	Pass



Band 12 Multicarrier, 64QAM Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-24.665	-19	Pass



BAND EDGE COMPLIANCE



XMI 2019.09.05

Band 12 Multicarrier, 64QAM Modulation, Upper Band Edge, Measurement 1			
	Value	Limit	Result
	-26.254	-19	Pass



Band 12 Multicarrier, 64QAM Modulation, Upper Band Edge, Measurement 2			
	Value	Limit	Result
	-23.841	-19	Pass



BAND EDGE COMPLIANCE

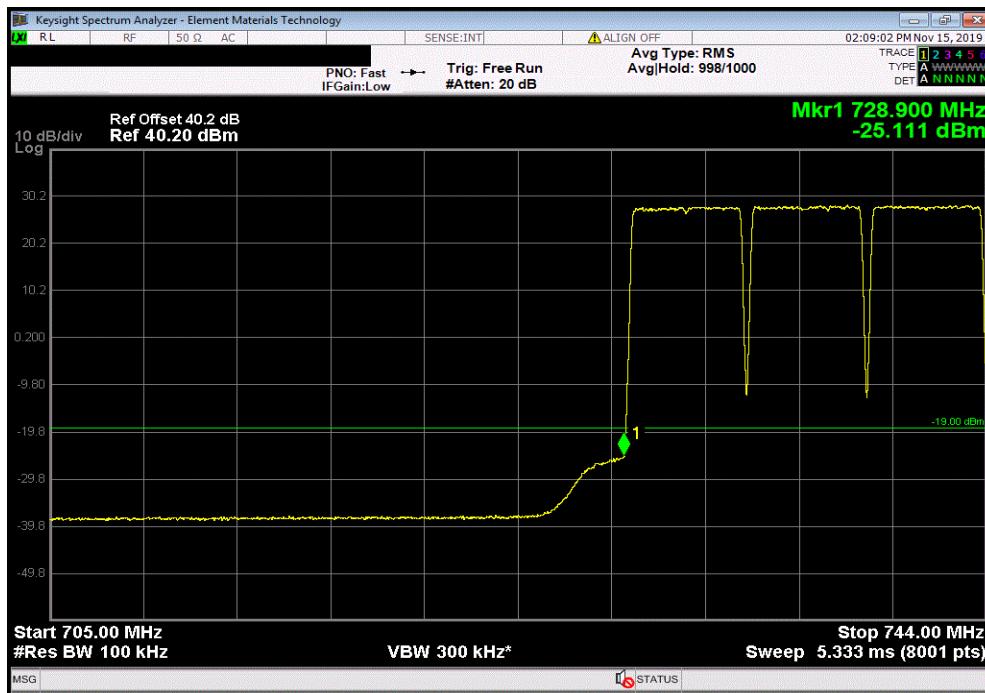


XMT 2019.09.05

Band 12 Multicarrier, 256QAM Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-26.726	-19	Pass



Band 12 Multicarrier, 256QAM Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-25.111	-19	Pass



BAND EDGE COMPLIANCE

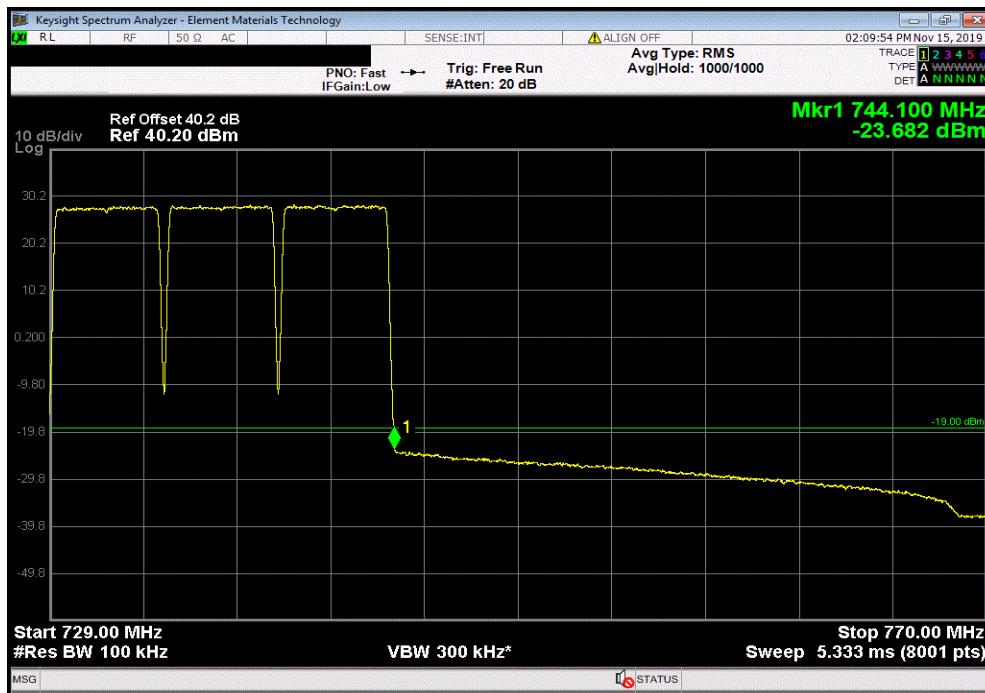


XMT 2019.09.05

Band 12 Multicarrier, 256QAM Modulation, Upper Band Edge, Measurement 1			
	Value	Limit	Result
	-26.16	-19	Pass



Band 12 Multicarrier, 256QAM Modulation, Upper Band Edge, Measurement 2			
	Value	Limit	Result
	-23.682	-19	Pass



BAND EDGE COMPLIANCE

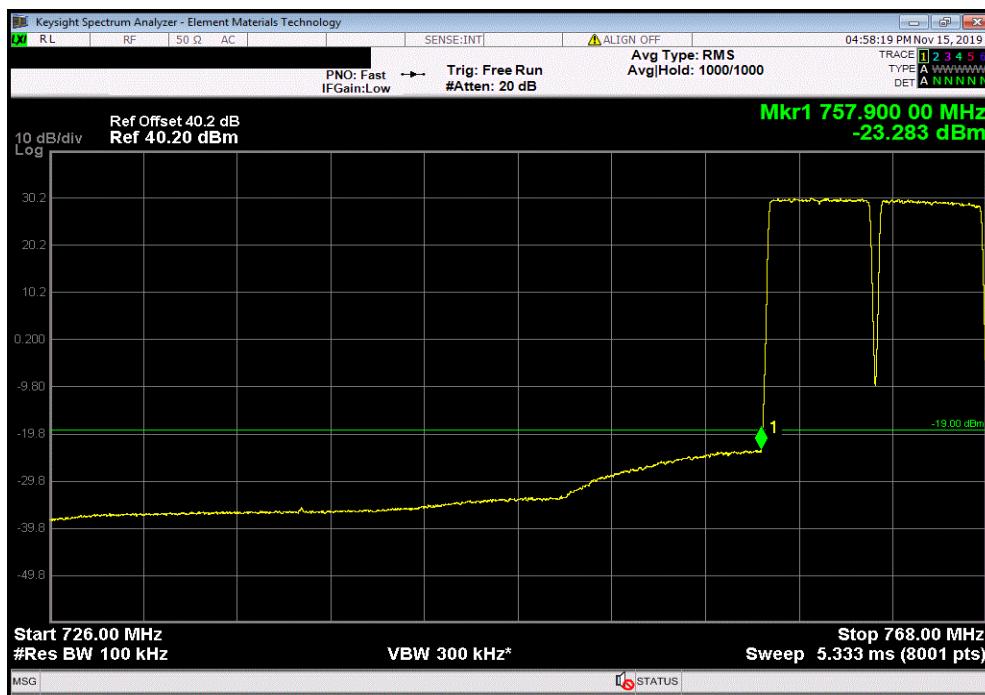


XMI 2019.09.05

Band 14 Multicarrier, QPSK Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-23.594	-19	Pass



Band 14 Multicarrier, QPSK Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-23.283	-19	Pass

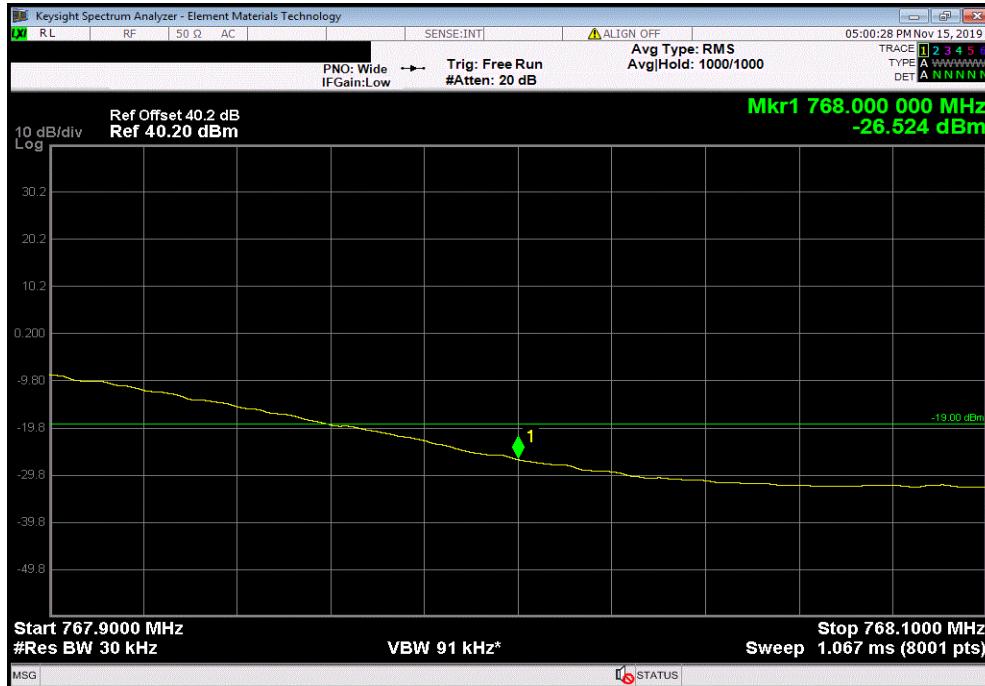


BAND EDGE COMPLIANCE

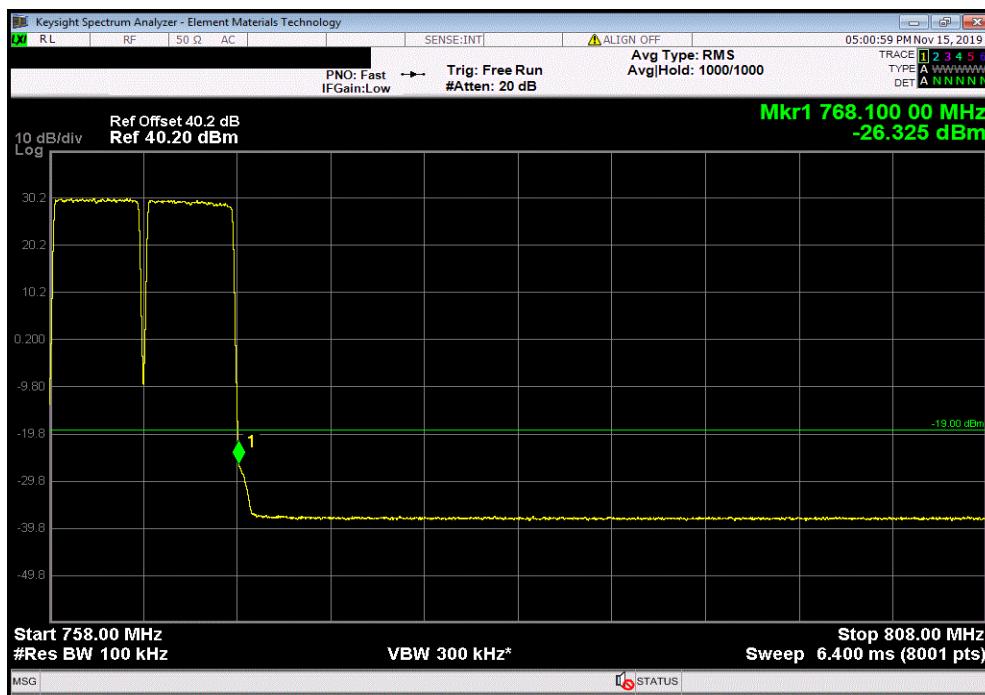


XMI 2019.09.05

Band 14 Multicarrier, QPSK Modulation, Upper Band Edge, Measurement 1			
	Value	Limit	Result
	-26.524	-19	Pass



Band 14 Multicarrier, QPSK Modulation, Upper Band Edge, Measurement 2			
	Value	Limit	Result
	-26.325	-19	Pass

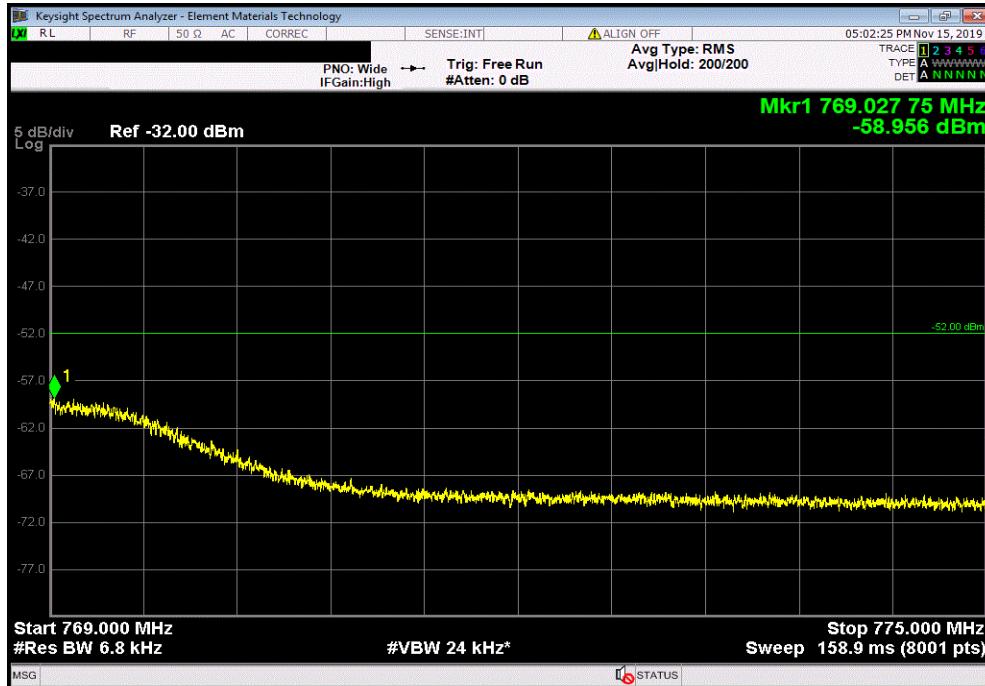


BAND EDGE COMPLIANCE

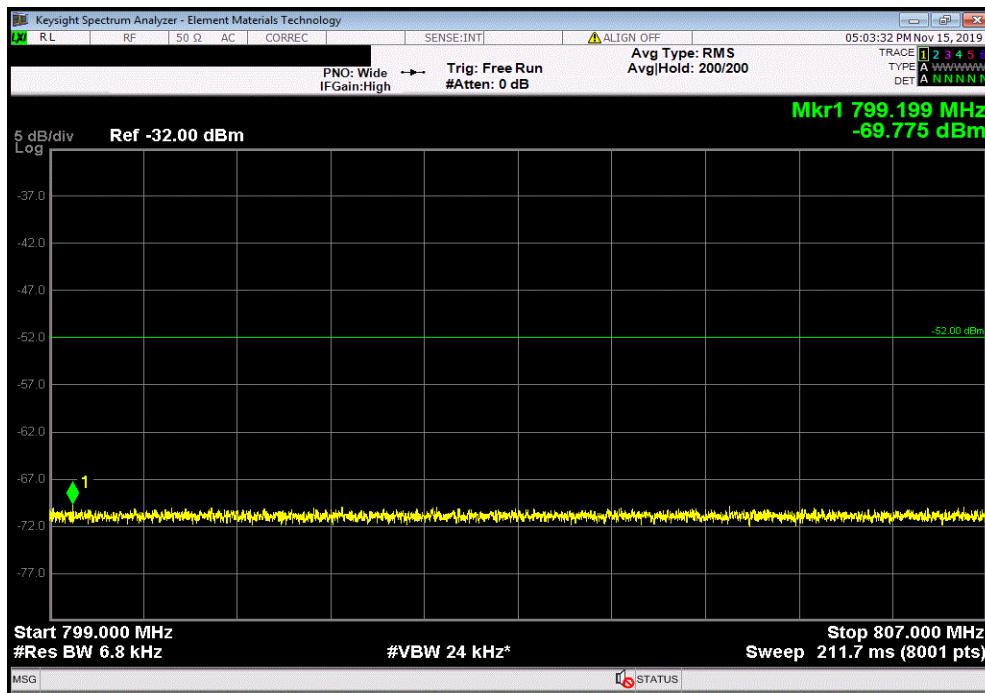


XMI 2019.09.05

Band 14 Multicarrier, QPSK Modulation, Upper Band Edge, Measurement 3			
	Value	Limit	Result
	-58.956	-52	Pass



Band 14 Multicarrier, QPSK Modulation, Upper Band Edge, Measurement 4			
	Value	Limit	Result
	-69.775	-52	Pass

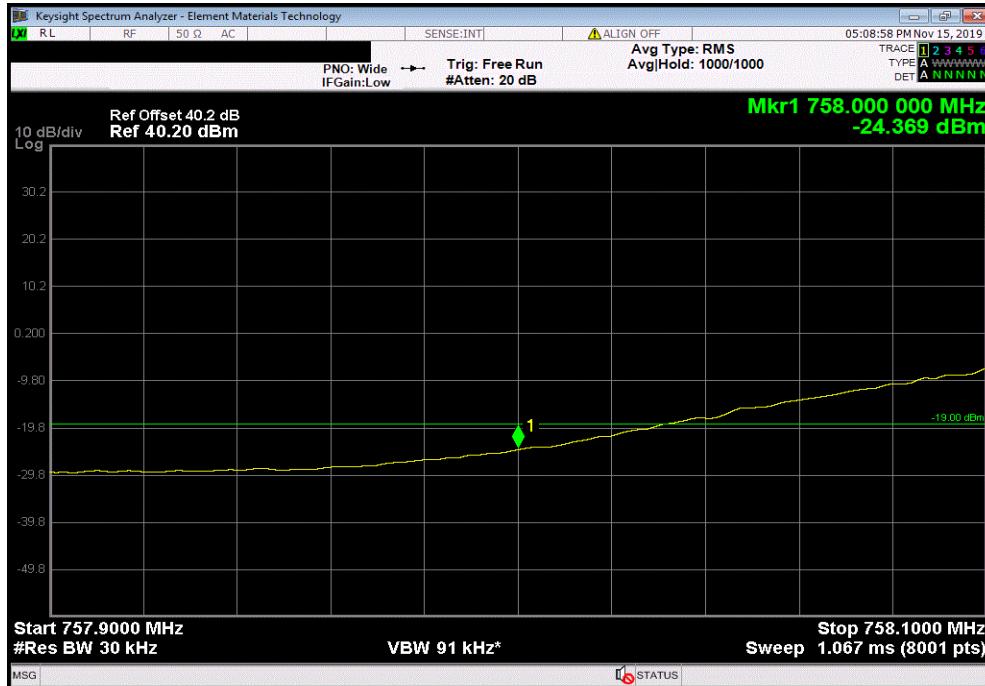


BAND EDGE COMPLIANCE

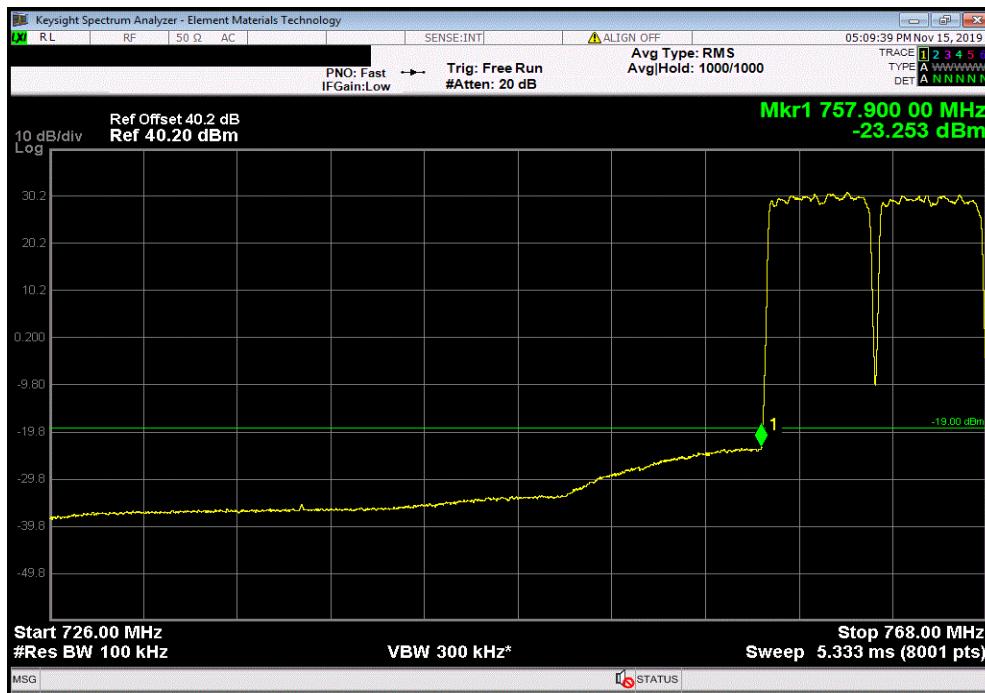


XMT 2019.09.05

Band 14 Multicarrier, 16QAM Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-24.369	-19	Pass



Band 14 Multicarrier, 16QAM Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-23.253	-19	Pass

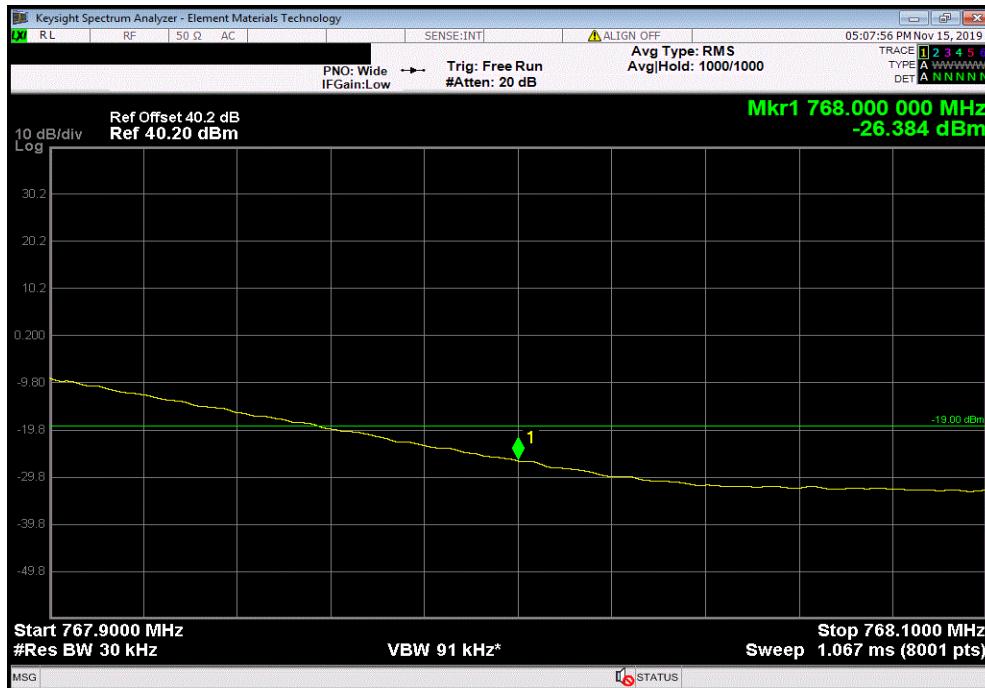


BAND EDGE COMPLIANCE

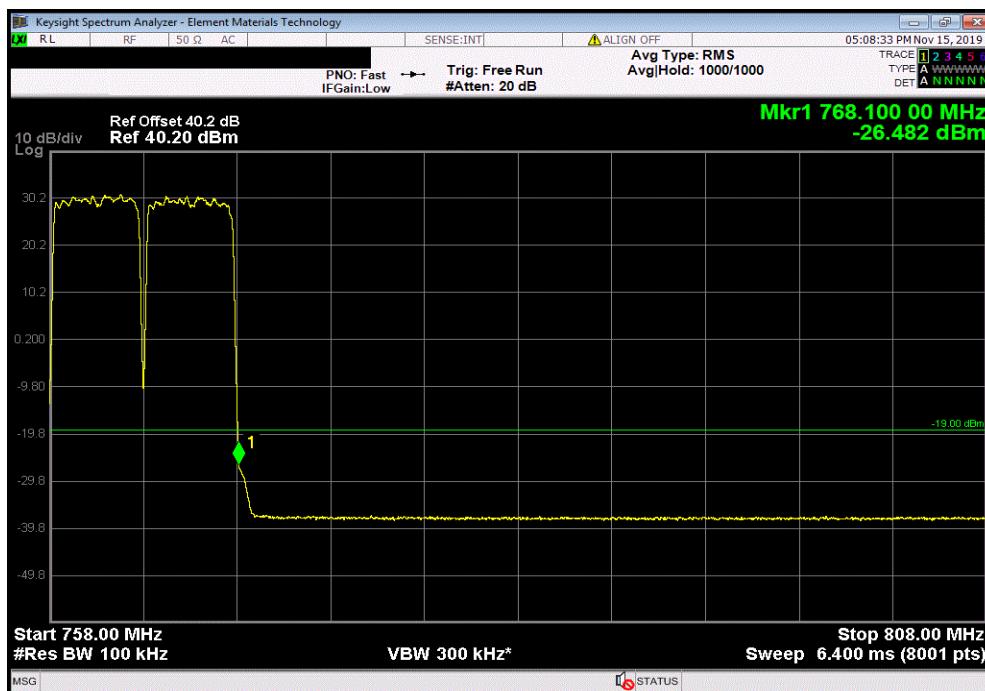


XMI 2019.09.05

Band 14 Multicarrier, 16QAM Modulation, Upper Band Edge, Measurement 1			
	Value	Limit	Result
	-26.384	-19	Pass



Band 14 Multicarrier, 16QAM Modulation, Upper Band Edge, Measurement 2			
	Value	Limit	Result
	-26.482	-19	Pass

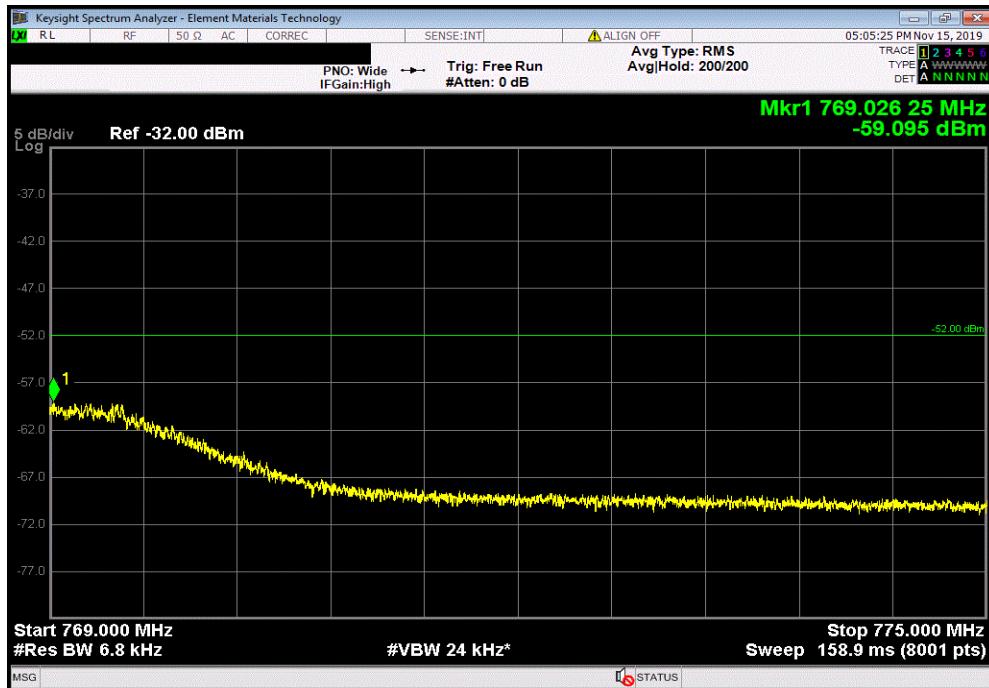


BAND EDGE COMPLIANCE

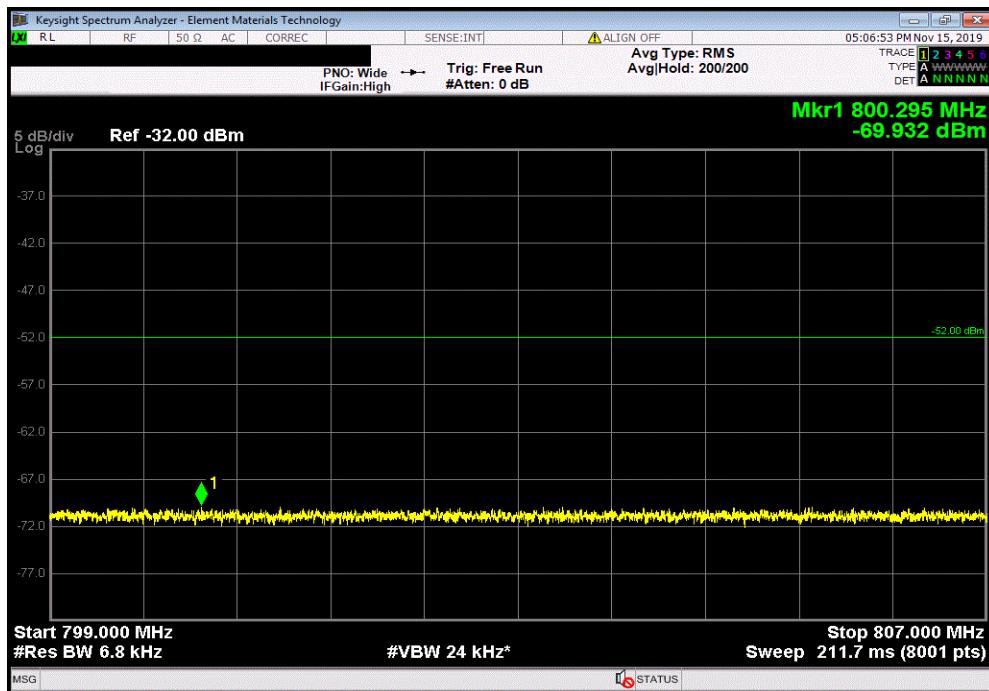


XMI 2019.09.05

Band 14 Multicarrier, 16QAM Modulation, Upper Band Edge, Measurement 3			
	Value	Limit	Result
	-59.095	-52	Pass



Band 14 Multicarrier, 16QAM Modulation, Upper Band Edge, Measurement 4			
	Value	Limit	Result
	-69.932	-52	Pass

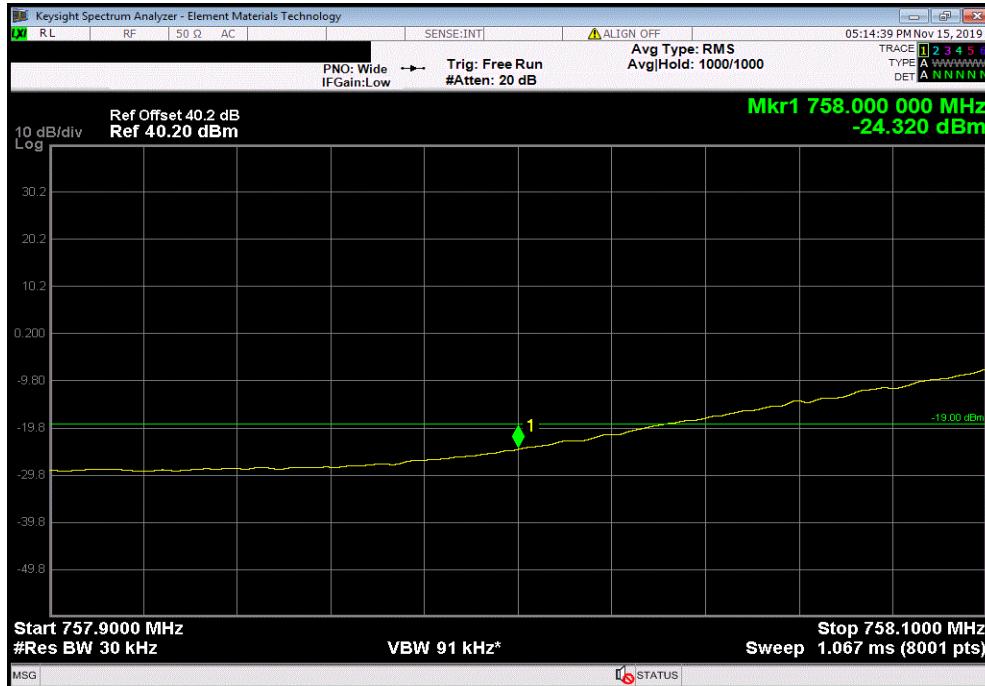


BAND EDGE COMPLIANCE

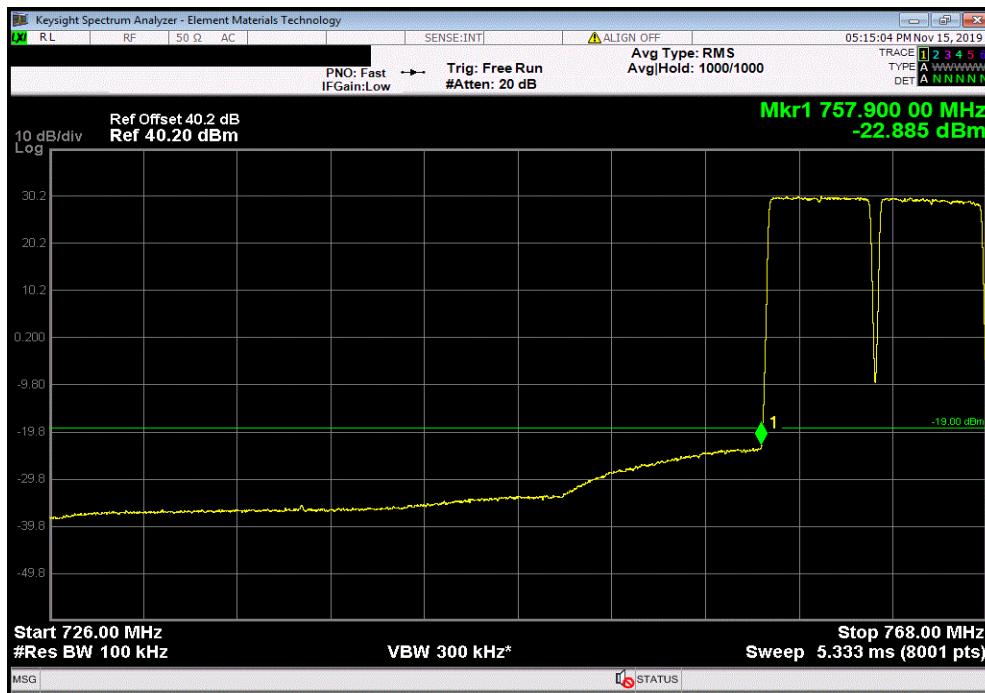


XMT 2019.09.05

Band 14 Multicarrier, 64QAM Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-24.32	-19	Pass



Band 14 Multicarrier, 64QAM Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-22.885	-19	Pass

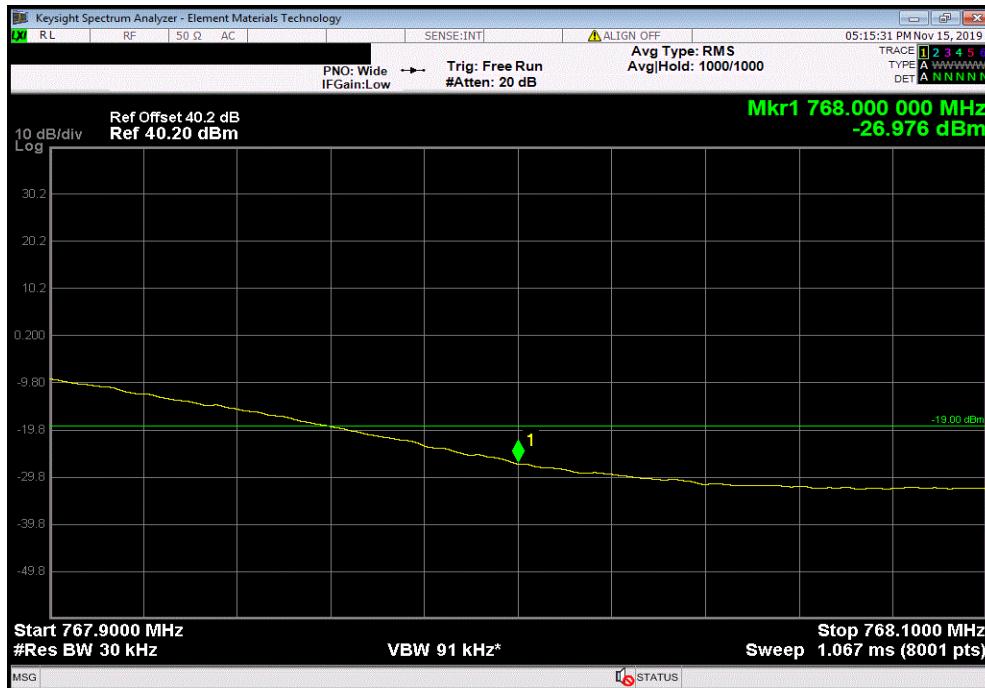


BAND EDGE COMPLIANCE

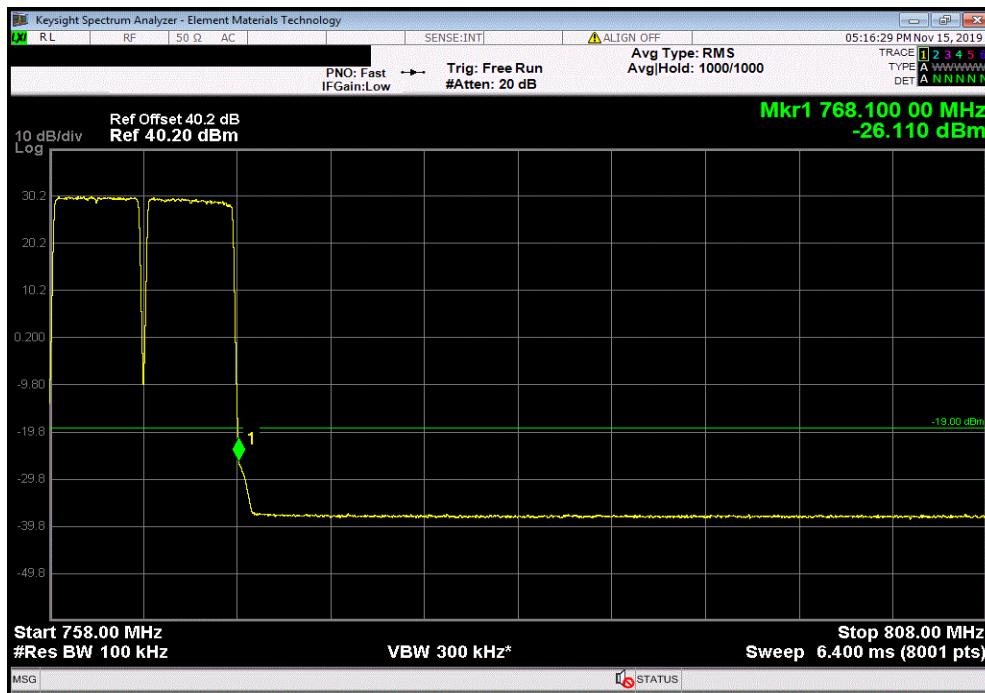


XMI 2019.09.05

Band 14 Multicarrier, 64QAM Modulation, Upper Band Edge, Measurement 1			
	Value	Limit	Result
	-26.976	-19	Pass



Band 14 Multicarrier, 64QAM Modulation, Upper Band Edge, Measurement 2			
	Value	Limit	Result
	-26.11	-19	Pass

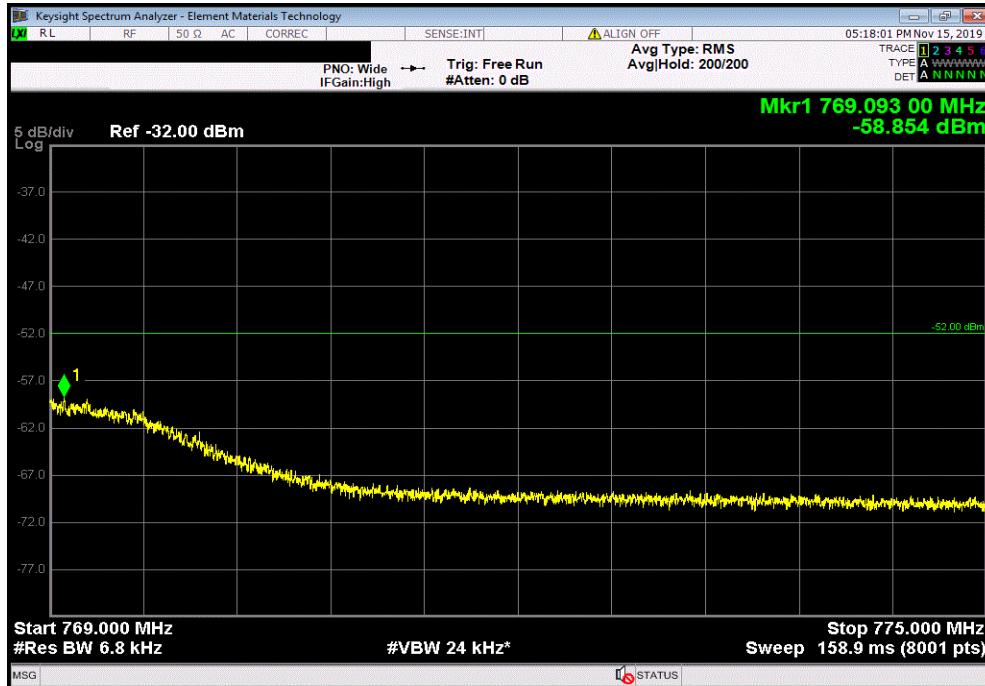


BAND EDGE COMPLIANCE

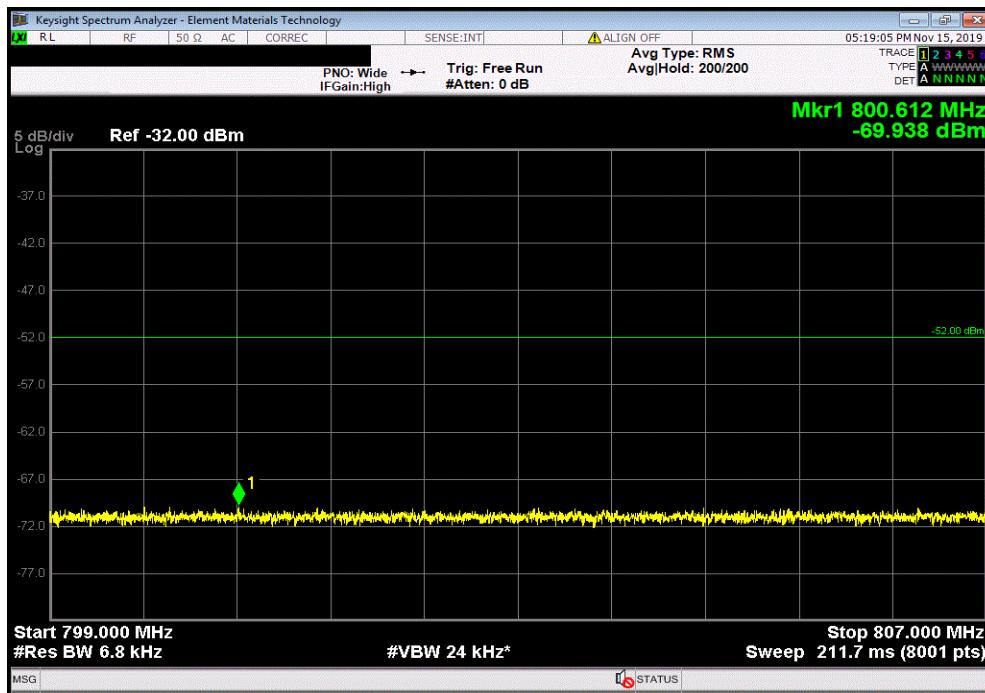


XMI 2019.09.05

Band 14 Multicarrier, 64QAM Modulation, Upper Band Edge, Measurement 3			
	Value	Limit	Result
	-58.854	-52	Pass



Band 14 Multicarrier, 64QAM Modulation, Upper Band Edge, Measurement 4			
	Value	Limit	Result
	-69.938	-52	Pass



BAND EDGE COMPLIANCE

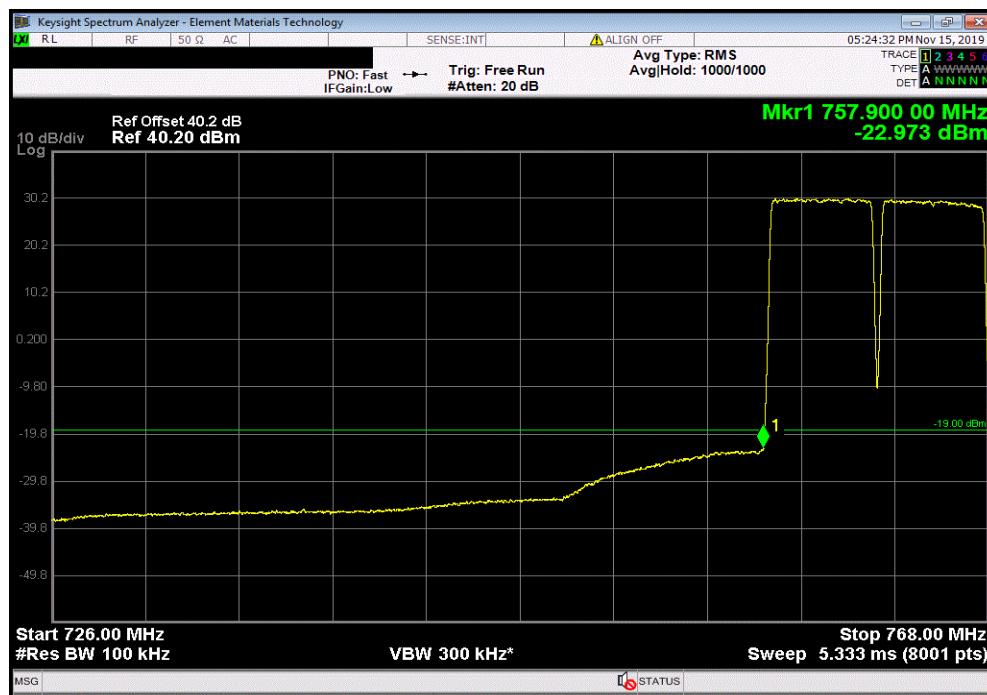


XMT 2019.09.05

Band 14 Multicarrier, 256QAM Modulation, Lower Band Edge, Measurement 1			
	Value	Limit	Result
	-24.697	-19	Pass



Band 14 Multicarrier, 256QAM Modulation, Lower Band Edge, Measurement 2			
	Value	Limit	Result
	-22.973	-19	Pass

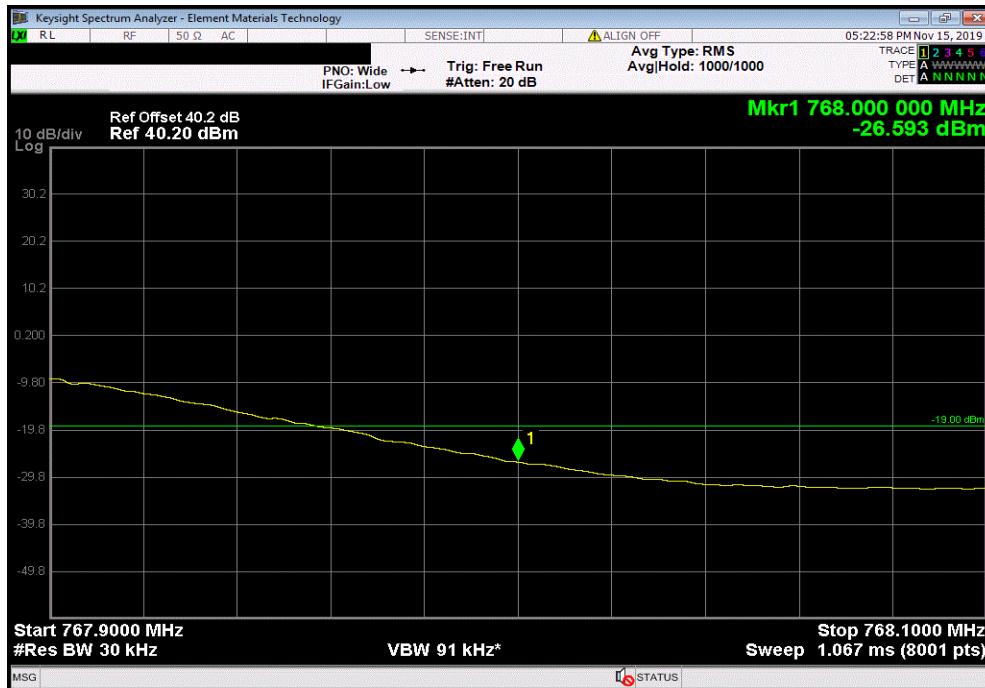


BAND EDGE COMPLIANCE

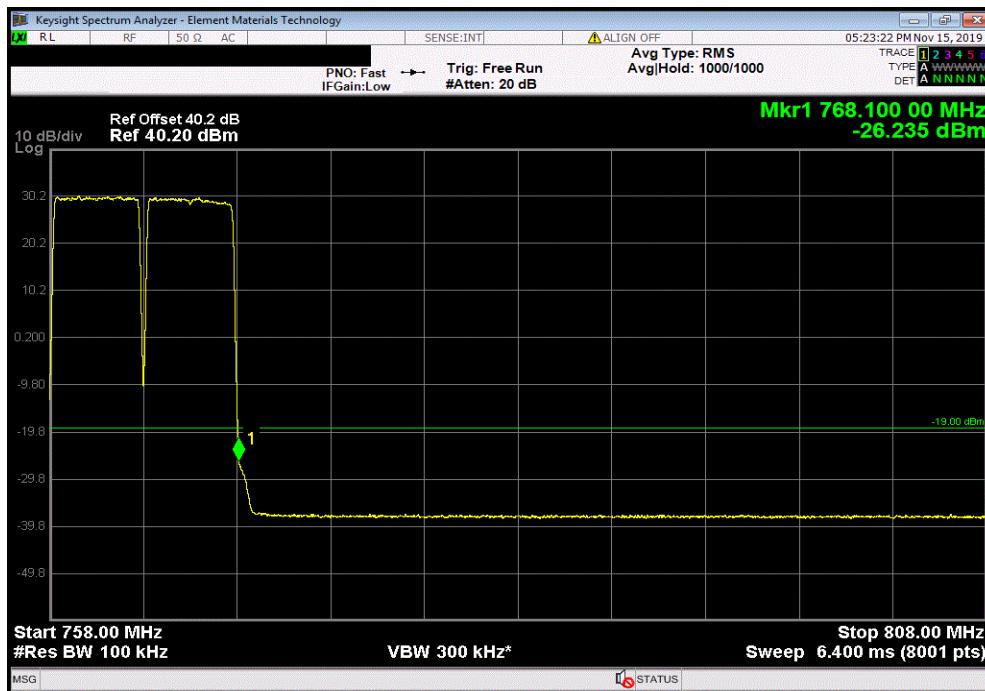


XMI 2019.09.05

Band 14 Multicarrier, 256QAM Modulation, Upper Band Edge, Measurement 1			
	Value	Limit	Result
	-26.593	-19	Pass



Band 14 Multicarrier, 256QAM Modulation, Upper Band Edge, Measurement 2			
	Value	Limit	Result
	-26.235	-19	Pass

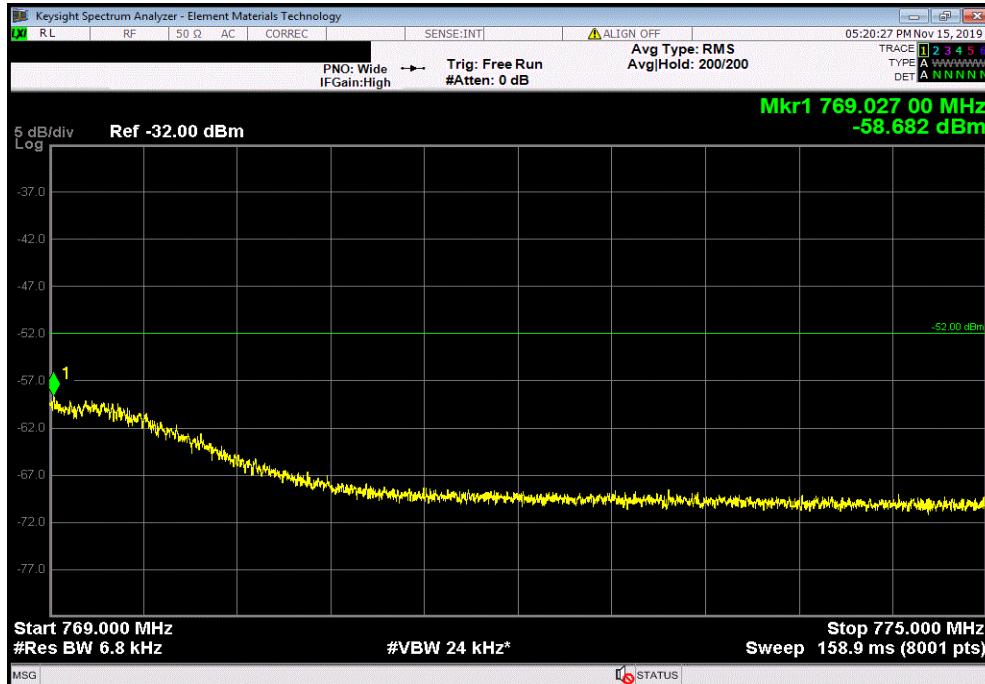


BAND EDGE COMPLIANCE



XMI 2019.09.05

Band 14 Multicarrier, 256QAM Modulation, Upper Band Edge, Measurement 3			
	Value	Limit	Result
	-58.682	-52	Pass



Band 14 Multicarrier, 256QAM Modulation, Upper Band Edge, Measurement 4			
	Value	Limit	Result
	-69.69	-52	Pass

