

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.

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 FCC section 27.53(c), 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.

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

Section 27.53(c)(3) requires an emission limit of -46dBm for any 6.25 kHz bandwidth between frequency bands 763-775 MHz and 793-806MHz. Adjusting for the four port MIMO requirement the emission limit in these frequency ranges is -52 dBm [i.e.: Limit = -46 dBm/6.25kHz (FCC Limit) - 6dB (4 port MIMO)].

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EUT:	AHBOA Remote Radio Head (RRH)	Work Order:	NOKI0003	
Serial Number:	BL1934X1001	Date:	28-Oct-19	
Customer:	Nokia Solutions and Networks	Temperature:		
Attendees:	John Rattanavong, Mitchell Hill	Humidity:		
Project:	None	Barometric Pres.:		
Tested by:	Jonathan Kiefer	Power:	48VDC	
Job Site:	TX03			
TEST SPECIFICATIONS		Test Method		
FCC 27:2019		ANSI C63.26:2015		
COMMENTS				
Tested on highest power antenna port (Port 1). EUT is operated at 100% duty cycle.				
DEVIATIONS FROM TEST STANDARD				
None				
Configuration #	1	Signature	<i>Jonathan Kiefer</i>	
		Value (dBm)	Limit (dBm)	Result
Band 13				
QPSK Modulation				
LTE5 Bandwidth				
Lower Band Edge				
Measurement 1	-25.865	-19	Pass	
Measurement 2	-23.687	-19	Pass	
Upper Band Edge				
Measurement 1	-25.776	-19	Pass	
Measurement 2	-24.416	-19	Pass	
Measurement 3	-57.606	-52	Pass	
Measurement 4	-58.235	-52	Pass	
LTE10 Bandwidth				
Lower Band Edge				
Measurement 1	-27.65	-19	Pass	
Measurement 2	-24.102	-19	Pass	
Upper Band Edge				
Measurement 1	-29.409	-19	Pass	
Measurement 2	-25.892	-19	Pass	
Measurement 3	-56.758	-52	Pass	
Measurement 4	-58.083	-52	Pass	
16QAM Modulation				
LTE5 Bandwidth				
Lower Band Edge				
Measurement 1	-25.963	-19	Pass	
Measurement 2	-23.503	-19	Pass	
Upper Band Edge				
Measurement 1	-26.498	-19	Pass	
Measurement 2	-24.257	-19	Pass	
Measurement 3	-57.623	-52	Pass	
Measurement 4	-58.195	-52	Pass	
LTE10 Bandwidth				
Lower Band Edge				
Measurement 1	-28.336	-19	Pass	
Measurement 2	-24.248	-19	Pass	
Upper Band Edge				
Measurement 1	-29.497	-19	Pass	
Measurement 2	-25.87	-19	Pass	
Measurement 3	-56.768	-52	Pass	
Measurement 4	-58.12	-52	Pass	
64QAM Modulation				
LTE5 Bandwidth				
Lower Band Edge				
Measurement 1	-25.735	-19	Pass	
Measurement 2	-23.88	-19	Pass	
Upper Band Edge				
Measurement 1	-26.166	-19	Pass	
Measurement 2	-23.806	-19	Pass	
Measurement 3	-57.512	-52	Pass	
Measurement 4	-58.162	-52	Pass	
LTE10 Bandwidth				
Lower Band Edge				
Measurement 1	-27.953	-19	Pass	
Measurement 2	-24.215	-19	Pass	
Upper Band Edge				
Measurement 1	-28.889	-19	Pass	
Measurement 2	-25.53	-19	Pass	
Measurement 3	-56.895	-52	Pass	
Measurement 4	-58.07	-52	Pass	
256QAM Modulation				
LTE5 Bandwidth				
Lower Band Edge				
Measurement 1	-26.028	-19	Pass	
Measurement 2	-24.035	-19	Pass	
Upper Band Edge				
Measurement 1	-25.861	-19	Pass	
Measurement 2	-24.416	-19	Pass	
Measurement 3	-57.572	-52	Pass	
Measurement 4	-58.101	-52	Pass	
LTE10 Bandwidth				
Lower Band Edge				
Measurement 1	-27.372	-19	Pass	
Measurement 2	-24.164	-19	Pass	
Upper Band Edge				
Measurement 1	-29.039	-19	Pass	
Measurement 2	-25.674	-19	Pass	
Measurement 3	-56.847	-52	Pass	
Measurement 4	-58.101	-52	Pass	

BAND EDGE COMPLIANCE

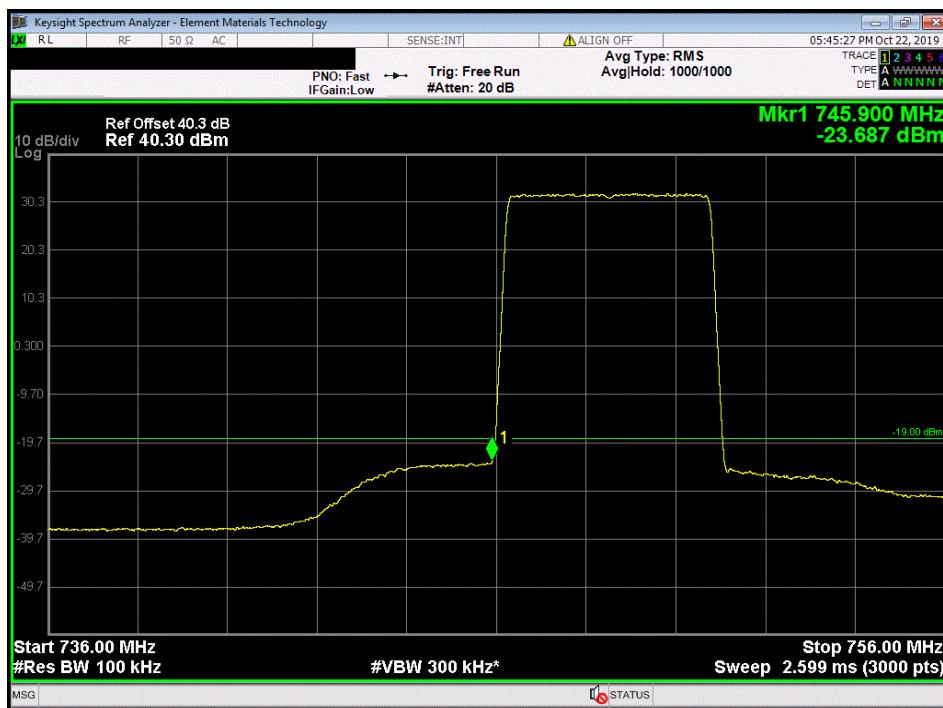


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Band 13, QPSK Modulation, LTE5 Bandwidth, Lower Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-25.865	-19	Pass



Band 13, QPSK Modulation, LTE5 Bandwidth, Lower Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-23.687	-19	Pass



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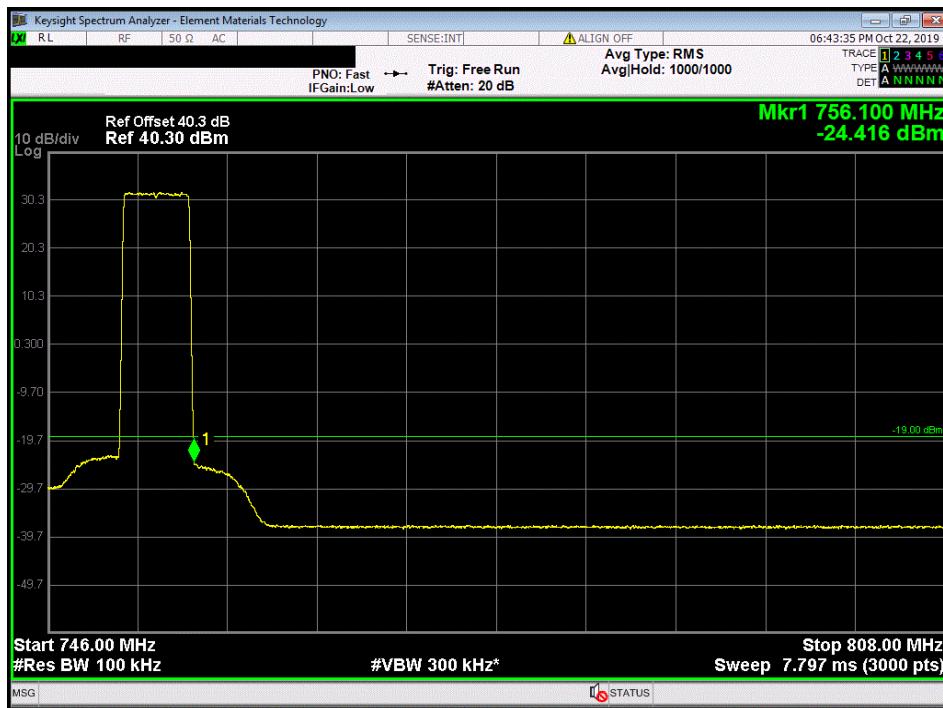


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Band 13, QPSK Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-25.776	-19	Pass



Band 13, QPSK Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-24.416	-19	Pass

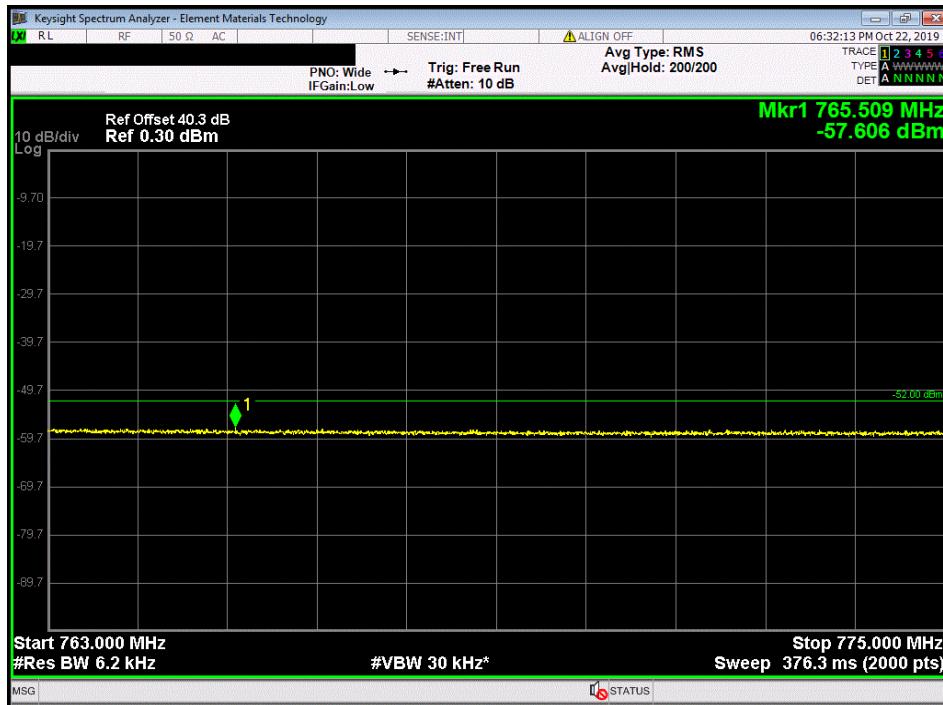


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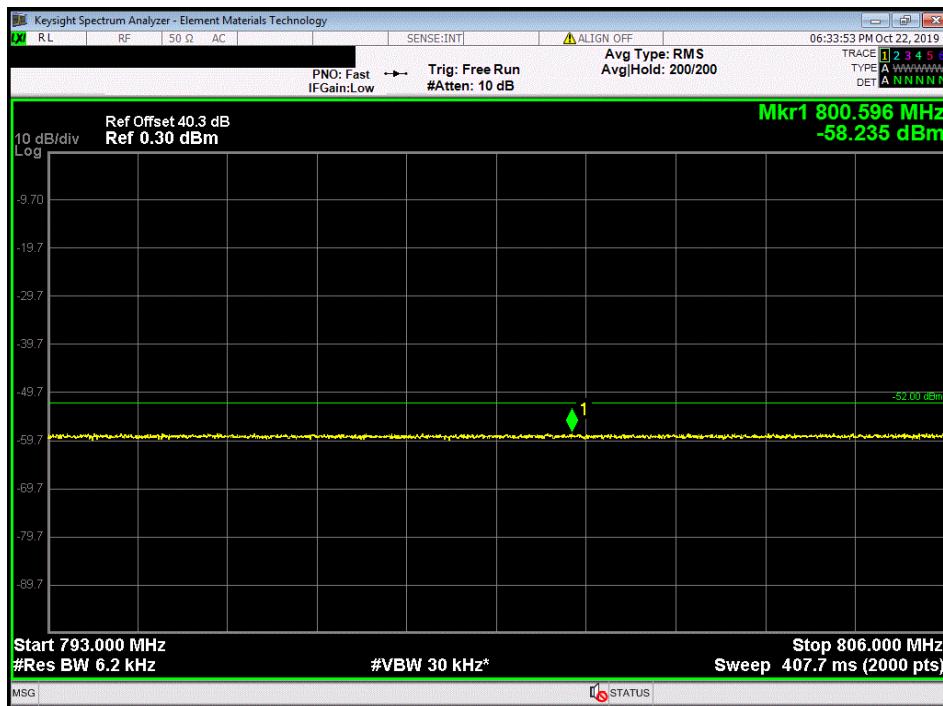


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Band 13, QPSK Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 3		
	Value (dBm)	Limit (dBm)
	-57.606	-52



Band 13, QPSK Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 4		
	Value (dBm)	Limit (dBm)
	-58.235	-52

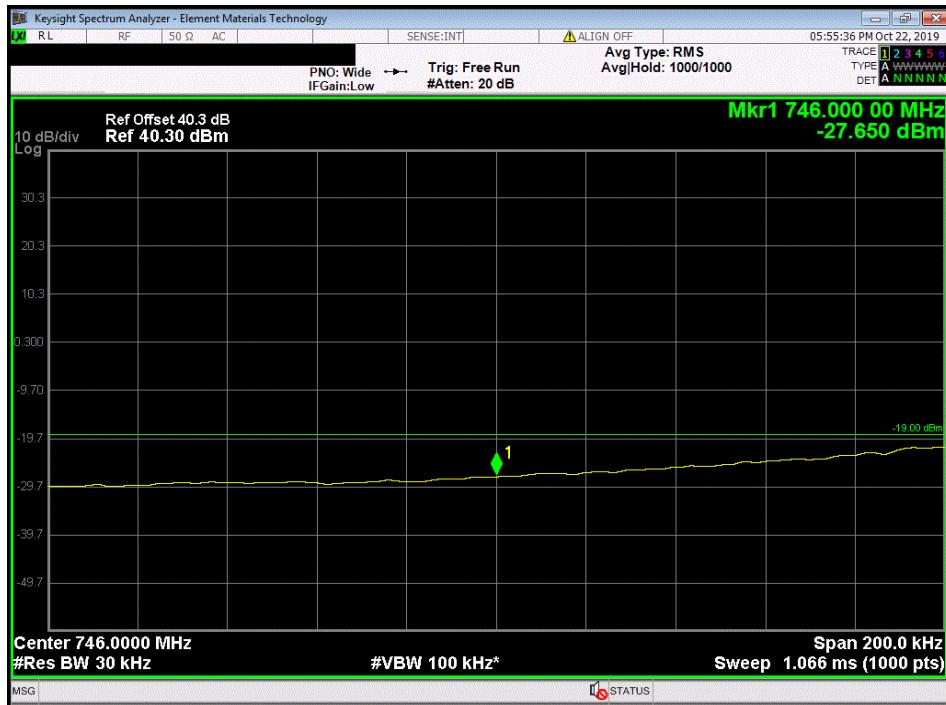


BAND EDGE COMPLIANCE

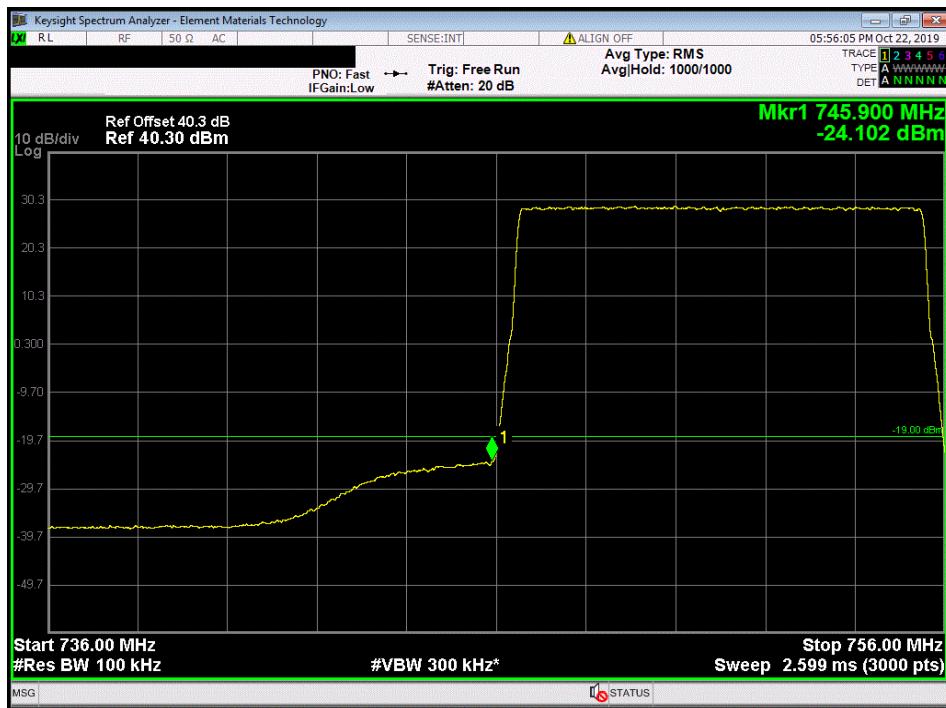


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Band 13, QPSK Modulation, LTE10 Bandwidth, Lower Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-27.65	-19	Pass



Band 13, QPSK Modulation, LTE10 Bandwidth, Lower Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-24.102	-19	Pass



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Band 13, QPSK Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-29.409	-19	Pass



Band 13, QPSK Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-25.892	-19	Pass

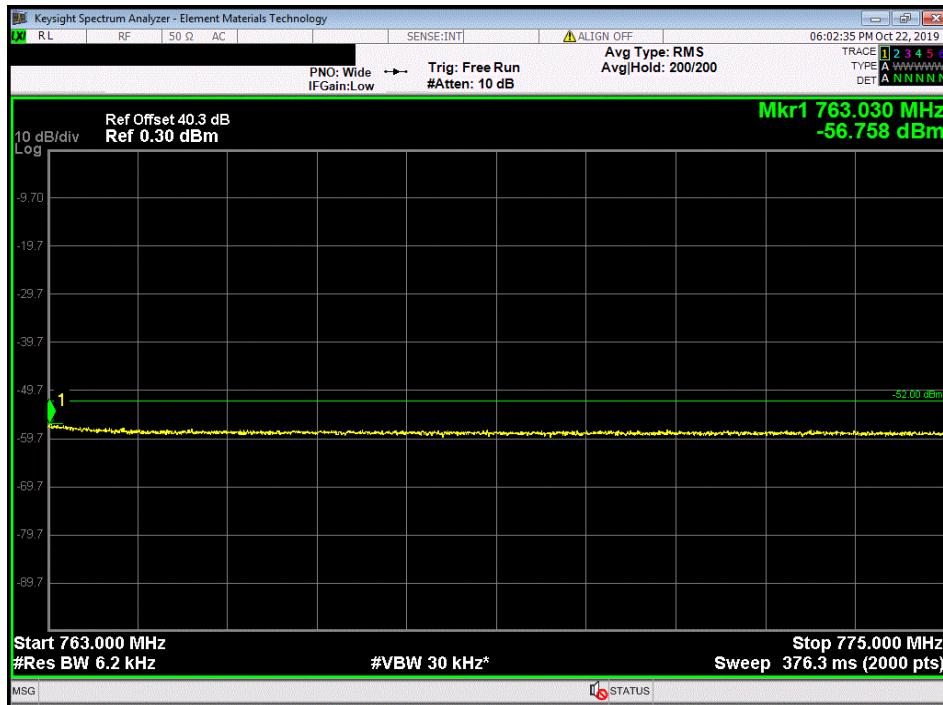


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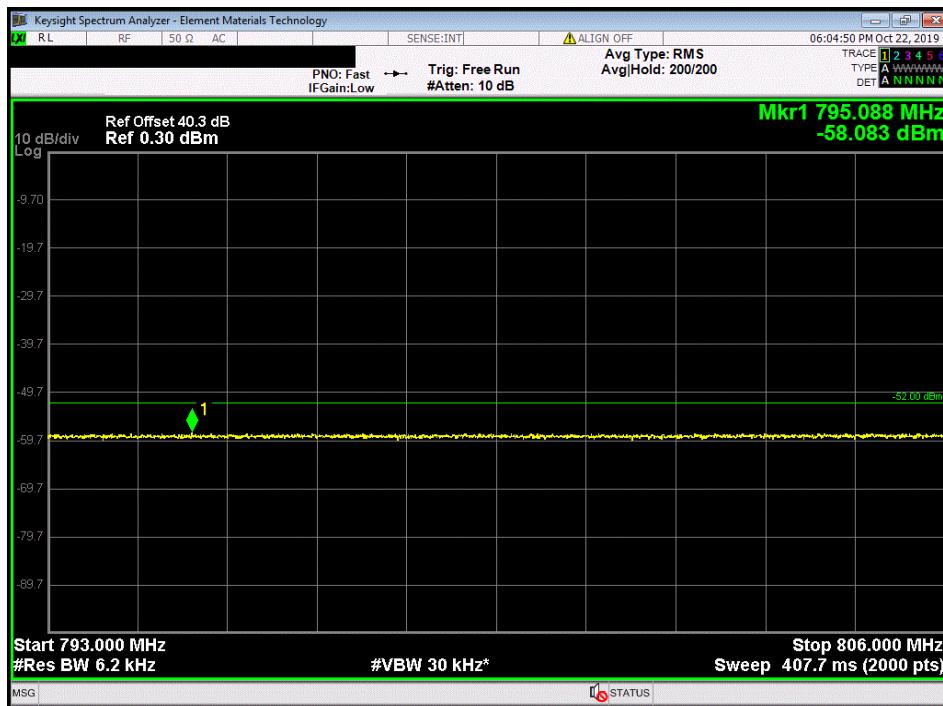


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Band 13, QPSK Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 3			
	Value (dBm)	Limit (dBm)	Result
	-56.758	-52	Pass



Band 13, QPSK Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 4			
	Value (dBm)	Limit (dBm)	Result
	-58.083	-52	Pass

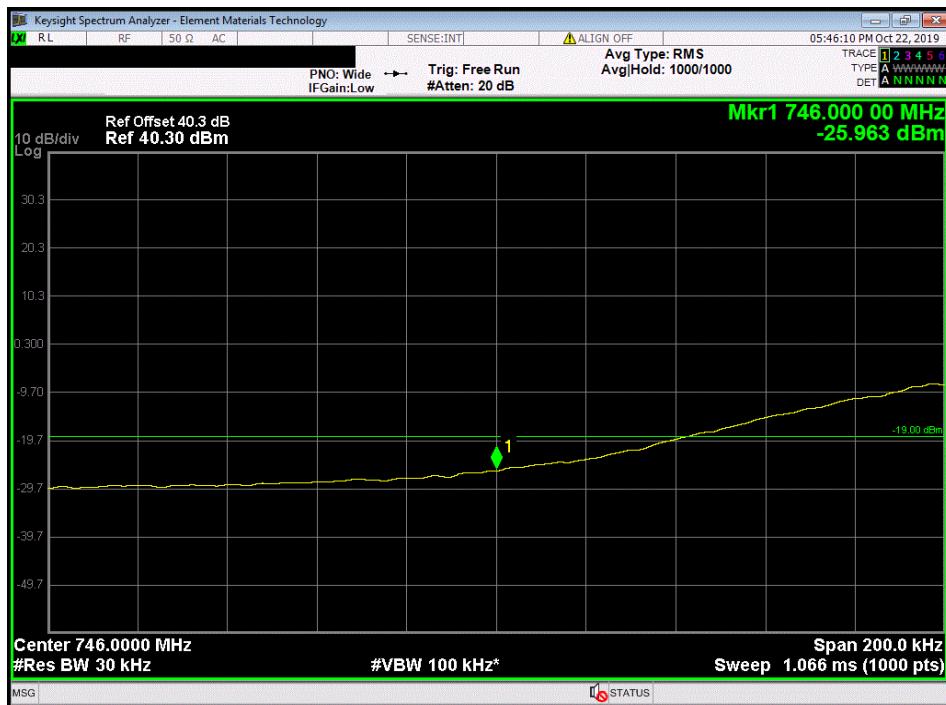


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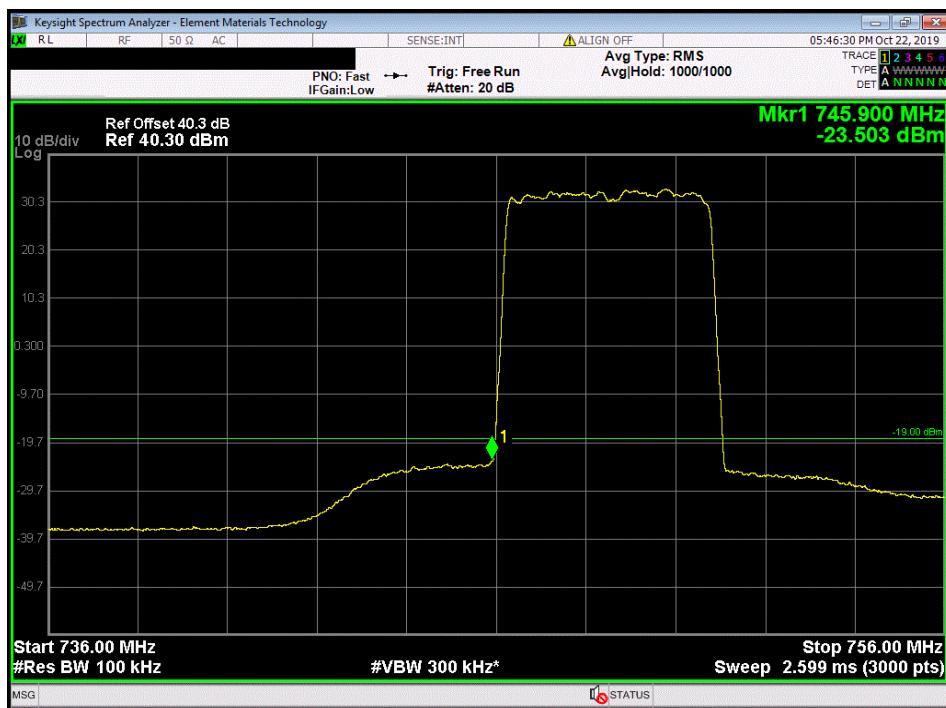


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Band 13, 16QAM Modulation, LTE5 Bandwidth, Lower Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-25.963	-19	Pass



Band 13, 16QAM Modulation, LTE5 Bandwidth, Lower Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-23.503	-19	Pass

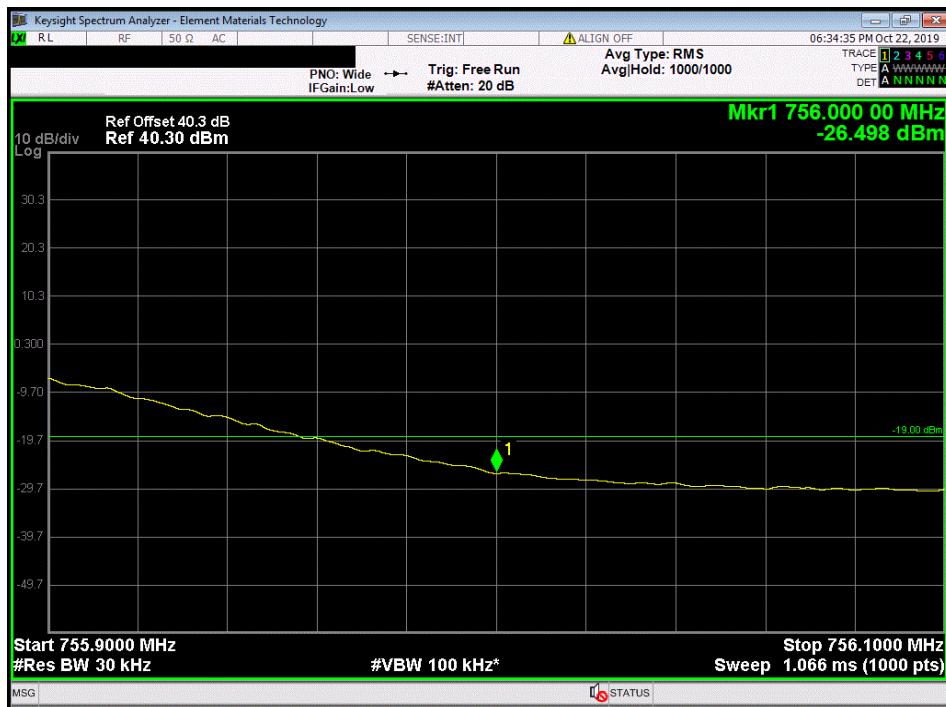


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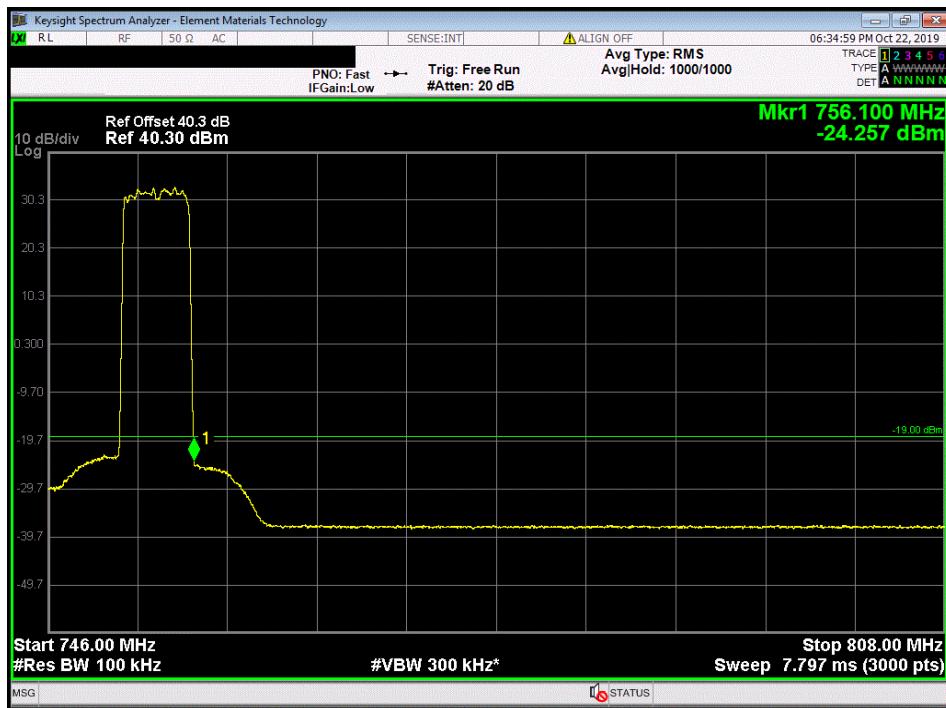


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Band 13, 16QAM Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-26.498	-19	Pass



Band 13, 16QAM Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-24.257	-19	Pass

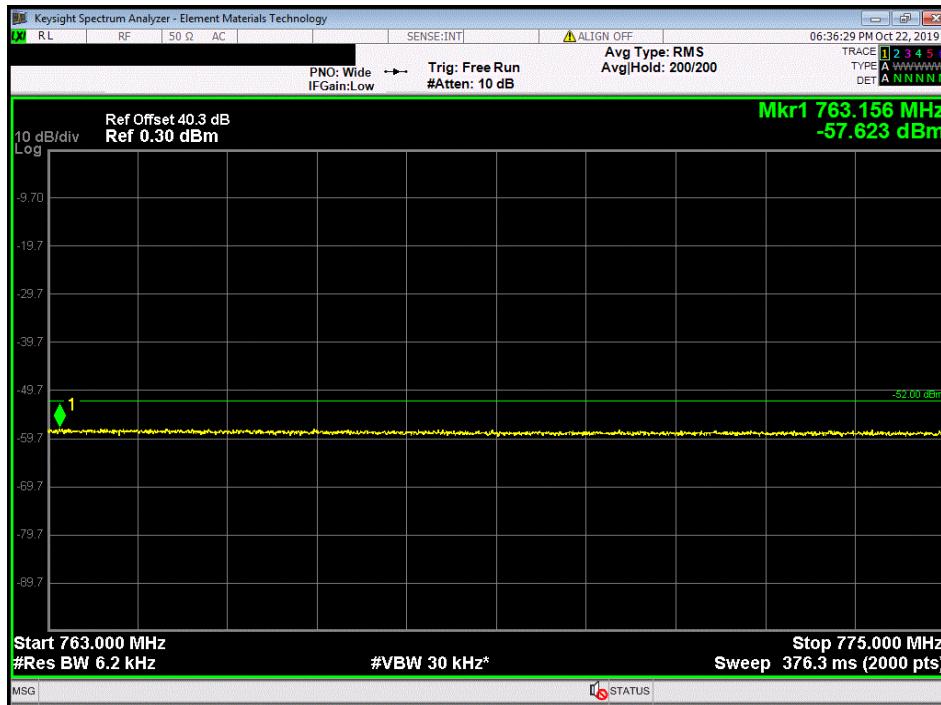


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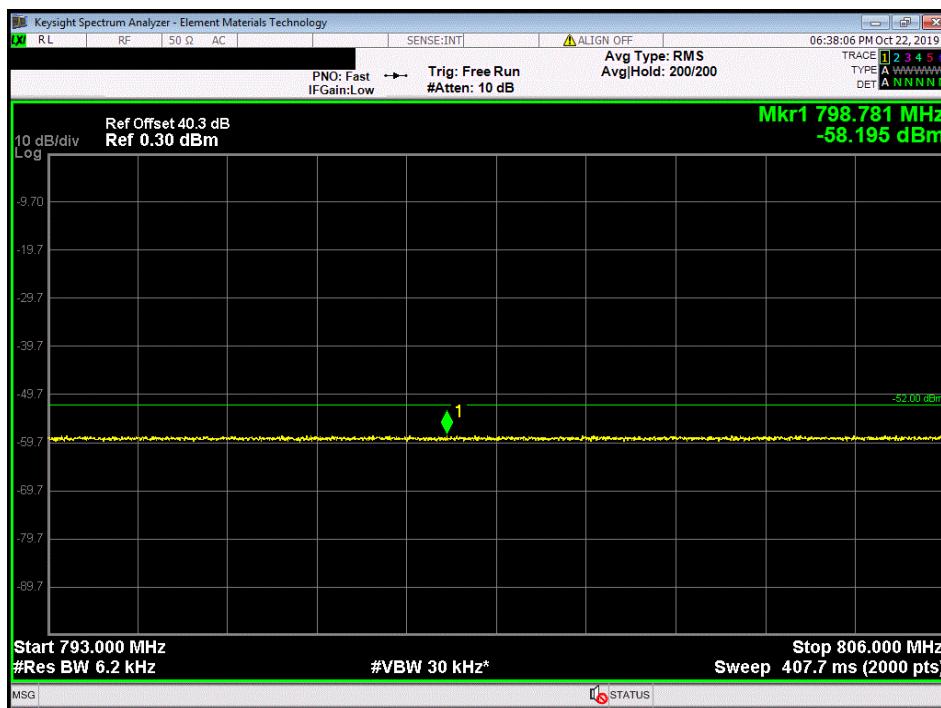


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Band 13, 16QAM Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 3			
	Value (dBm)	Limit (dBm)	Result
	-57.623	-52	Pass



Band 13, 16QAM Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 4			
	Value (dBm)	Limit (dBm)	Result
	-58.195	-52	Pass

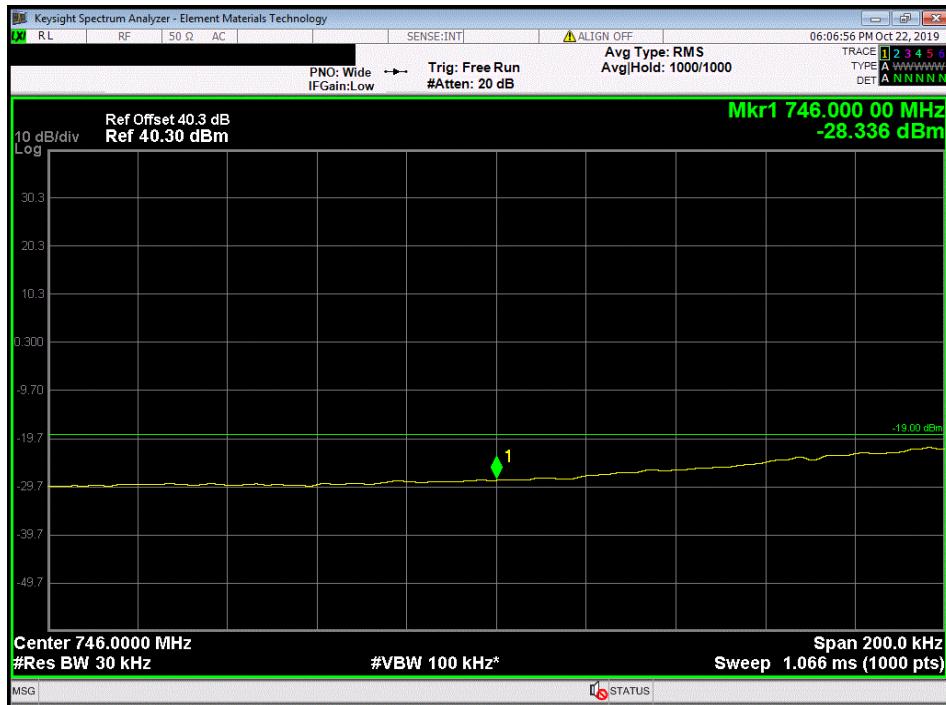


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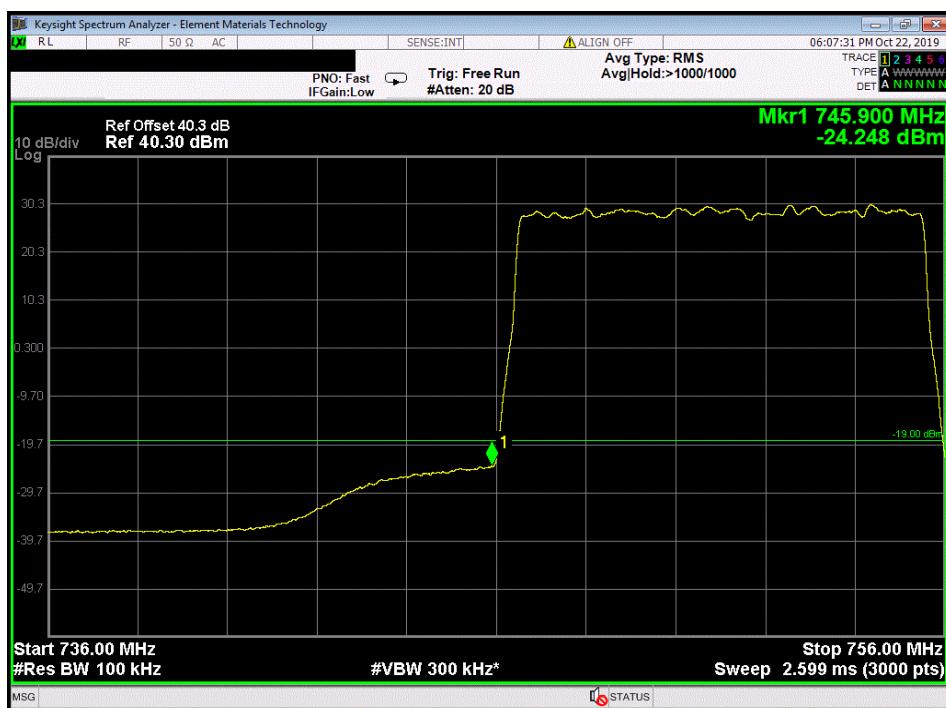


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Band 13, 16QAM Modulation, LTE10 Bandwidth, Lower Band Edge, Measurement 1						
	Value (dBm)	Limit (dBm)	Result			
	-28.336	-19	Pass			



Band 13, 16QAM Modulation, LTE10 Bandwidth, Lower Band Edge, Measurement 2						
	Value (dBm)	Limit (dBm)	Result			
	-24.248	-19	Pass			

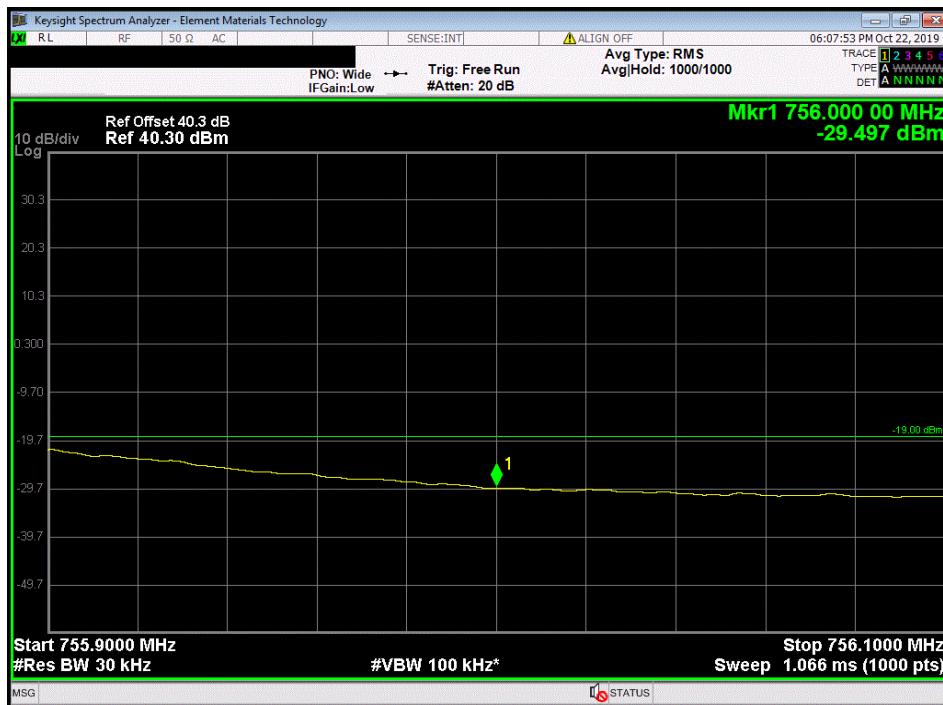


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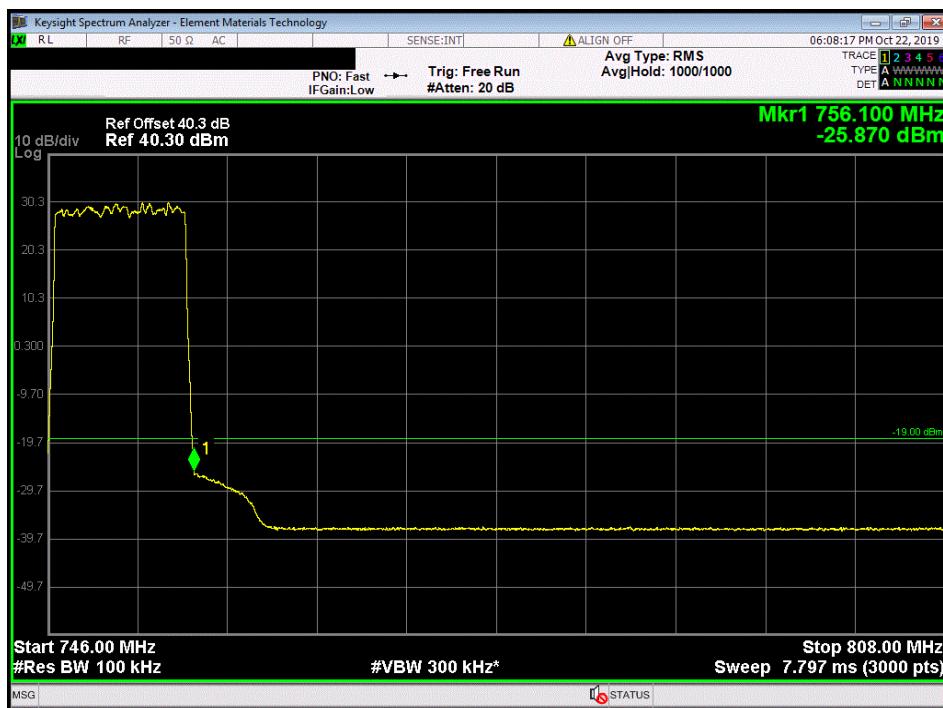


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Band 13, 16QAM Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-29.497	-19	Pass



Band 13, 16QAM Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-25.87	-19	Pass

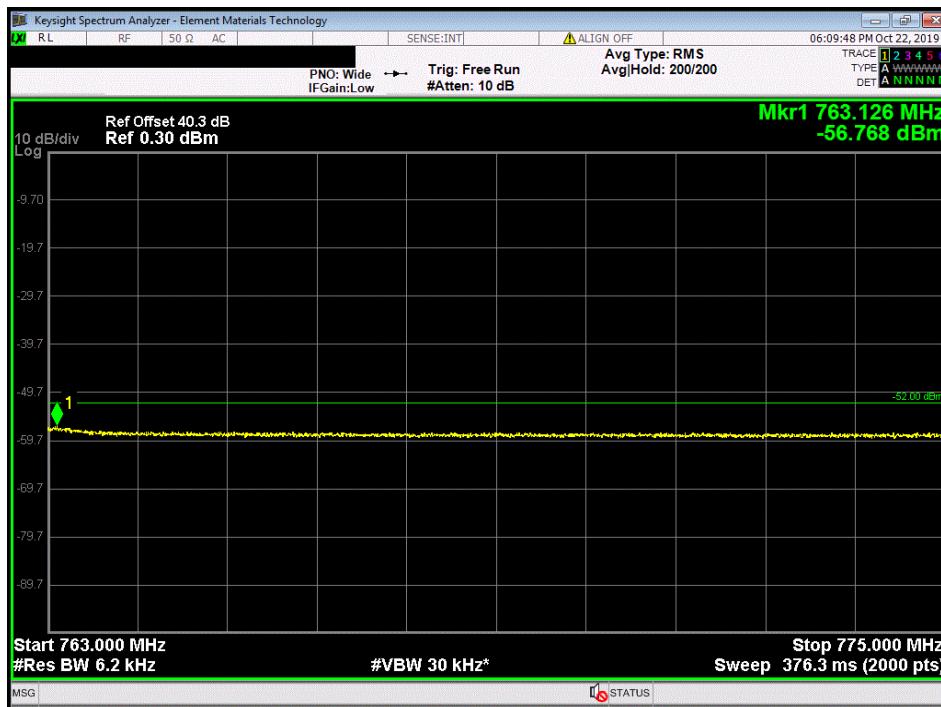


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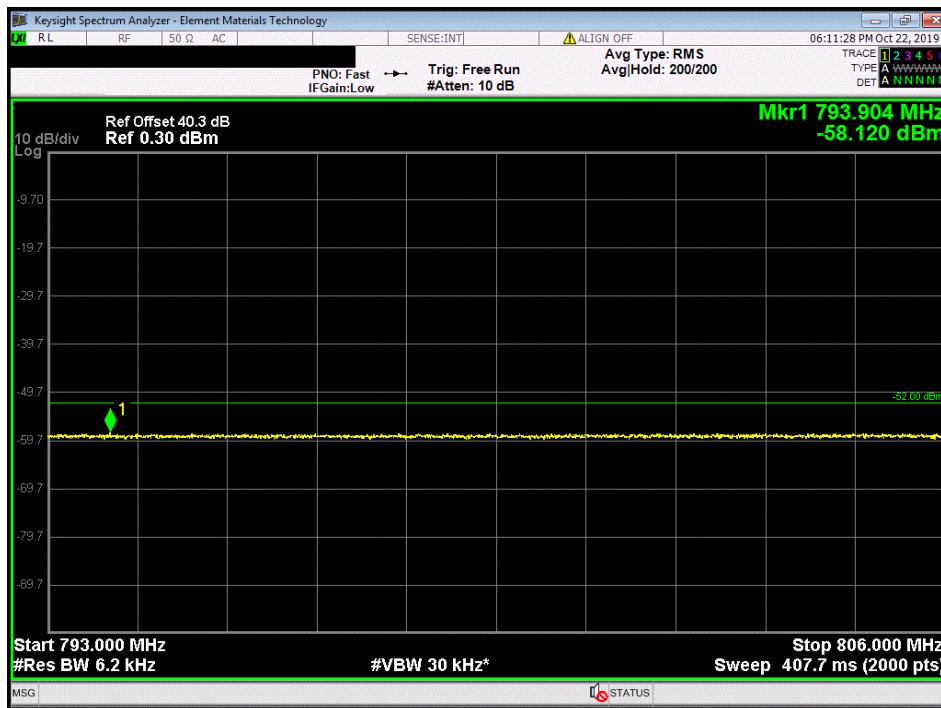


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Band 13, 16QAM Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 3			
	Value (dBm)	Limit (dBm)	Result
	-56.768	-52	Pass



Band 13, 16QAM Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 4			
	Value (dBm)	Limit (dBm)	Result
	-58.12	-52	Pass



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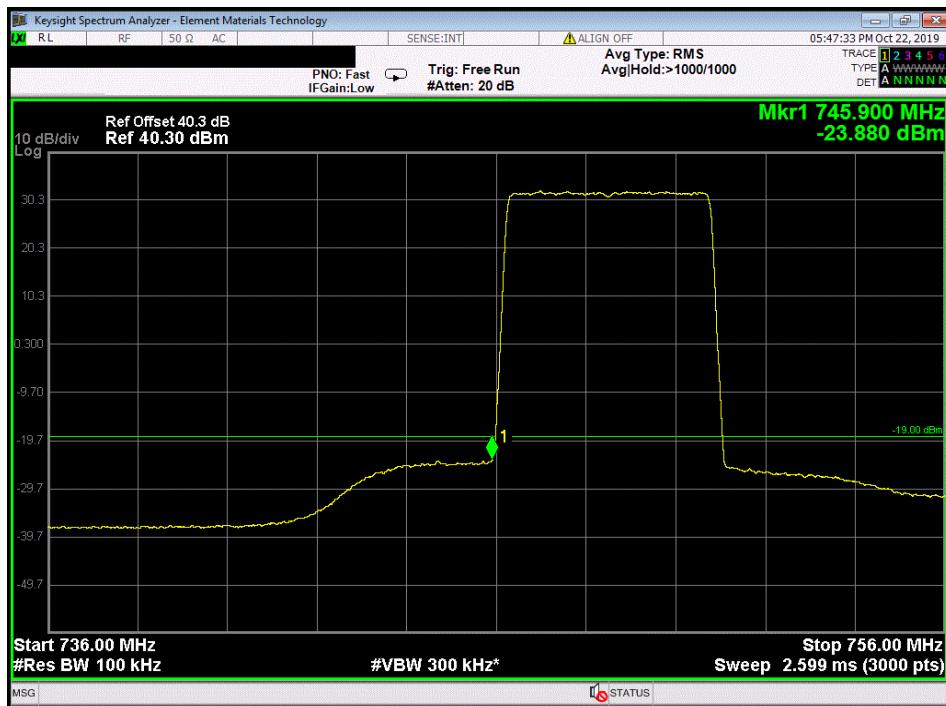


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Band 13, 64QAM Modulation, LTE5 Bandwidth, Lower Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-25.735	-19	Pass



Band 13, 64QAM Modulation, LTE5 Bandwidth, Lower Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-23.88	-19	Pass



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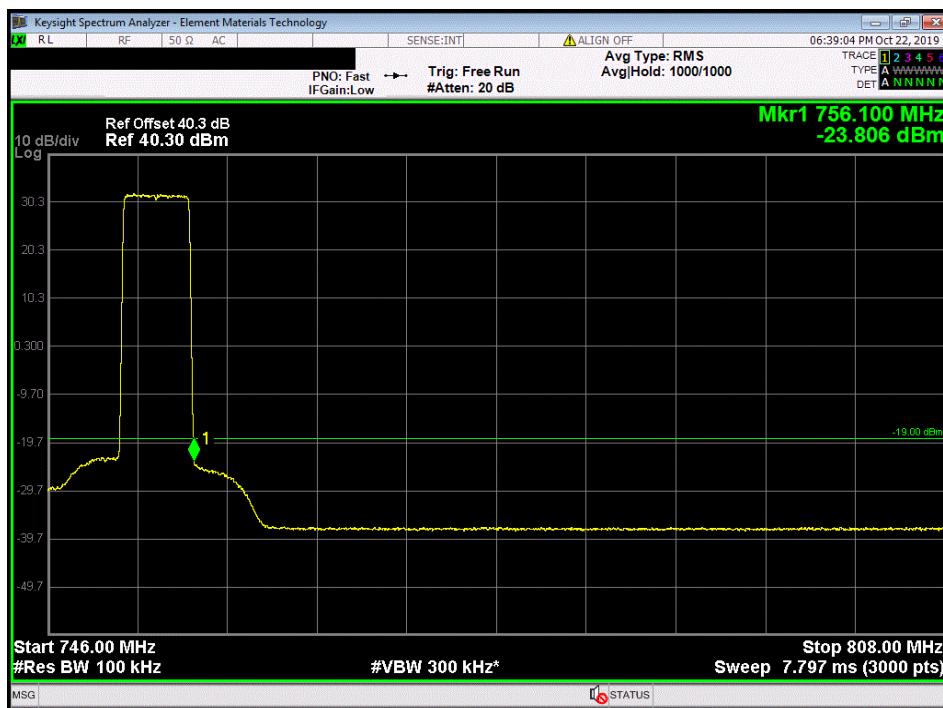


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Band 13, 64QAM Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-26.166	-19	Pass



Band 13, 64QAM Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-23.806	-19	Pass

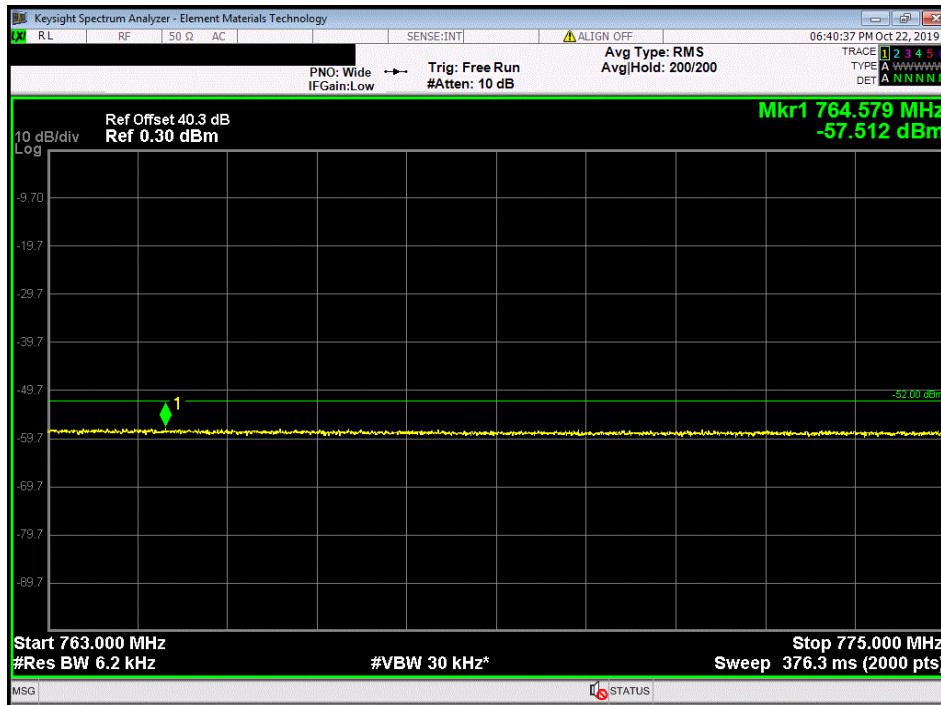


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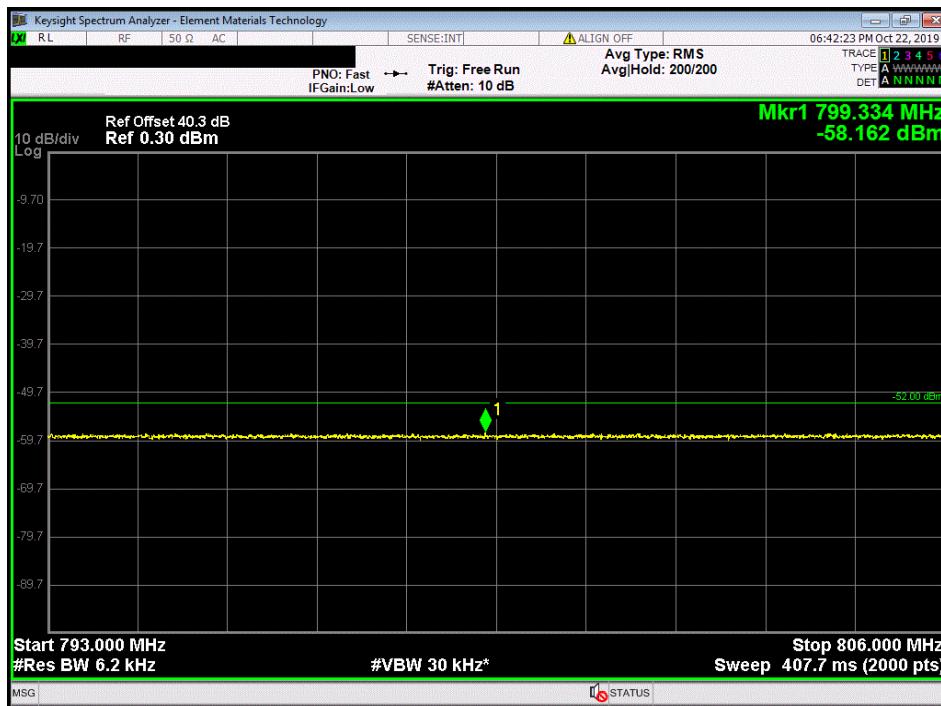


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Band 13, 64QAM Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 3			
	Value (dBm)	Limit (dBm)	Result
	-57.512	-52	Pass



Band 13, 64QAM Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 4			
	Value (dBm)	Limit (dBm)	Result
	-58.162	-52	Pass

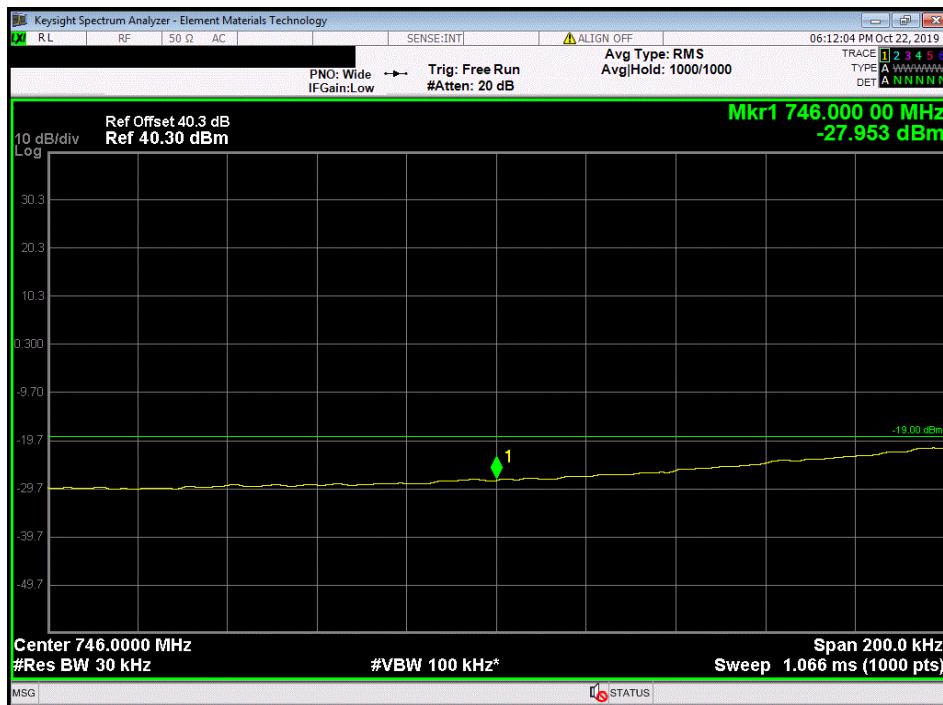


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Band 13, 64QAM Modulation, LTE10 Bandwidth, Lower Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-27.953	-19	Pass



Band 13, 64QAM Modulation, LTE10 Bandwidth, Lower Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-24.215	-19	Pass

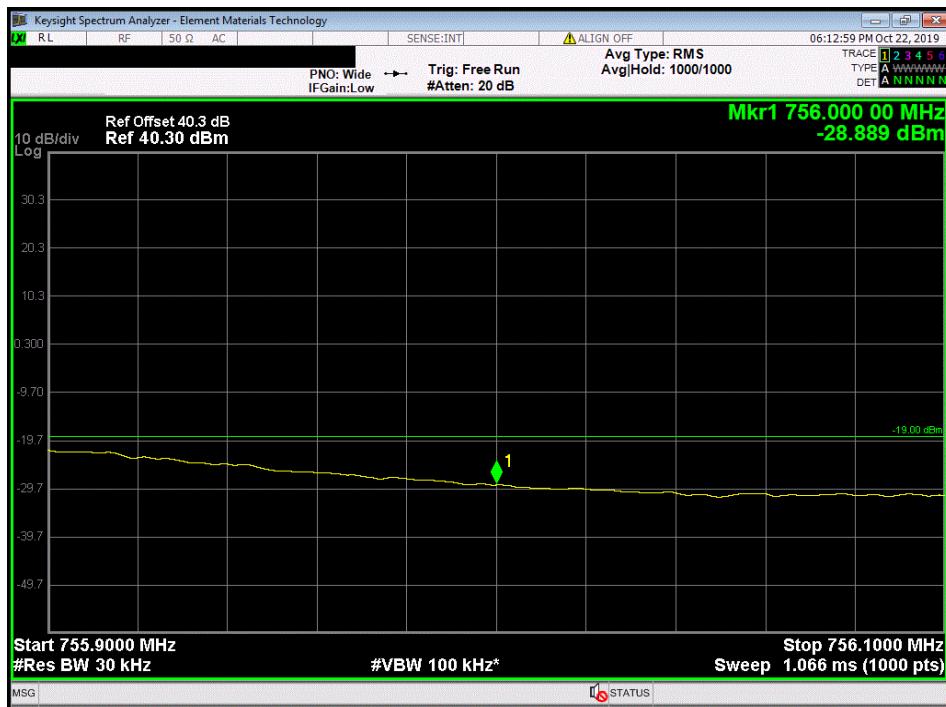


BAND EDGE COMPLIANCE

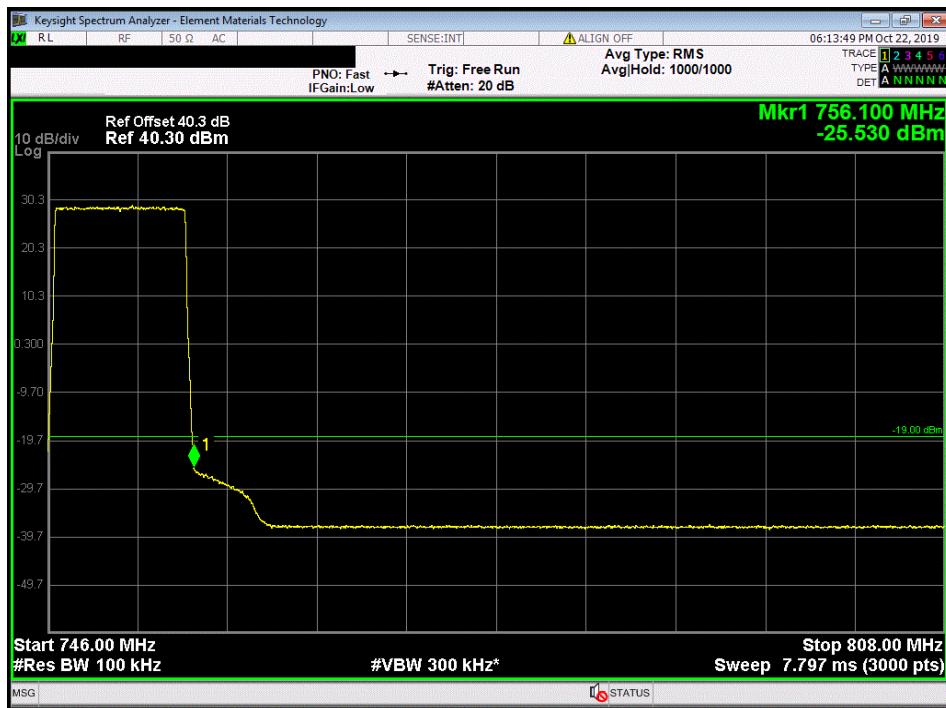


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Band 13, 64QAM Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-28.889	-19	Pass



Band 13, 64QAM Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-25.53	-19	Pass

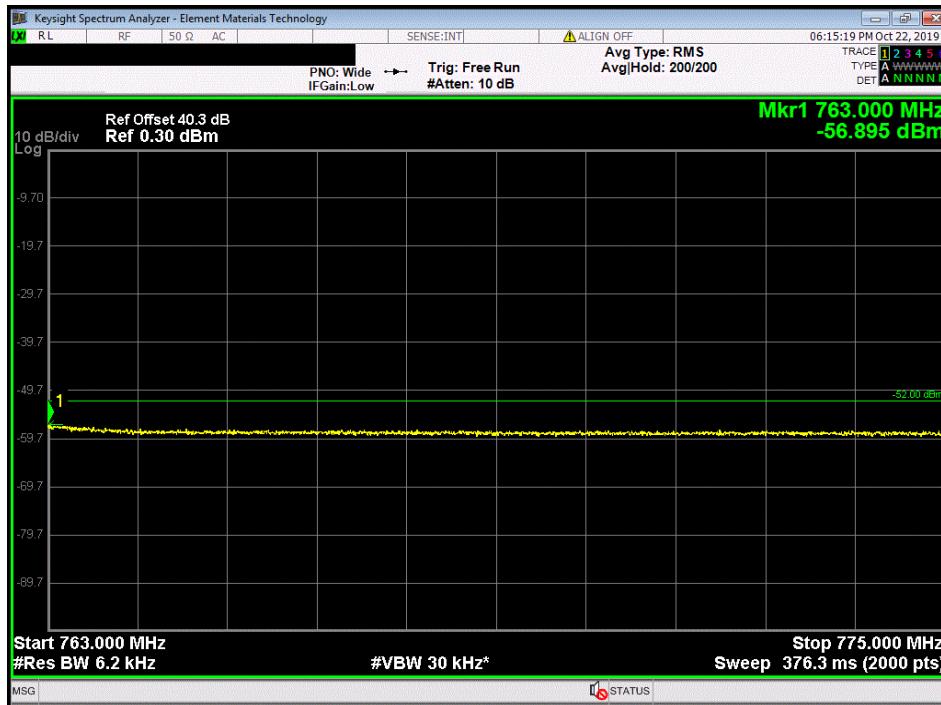


BAND EDGE COMPLIANCE

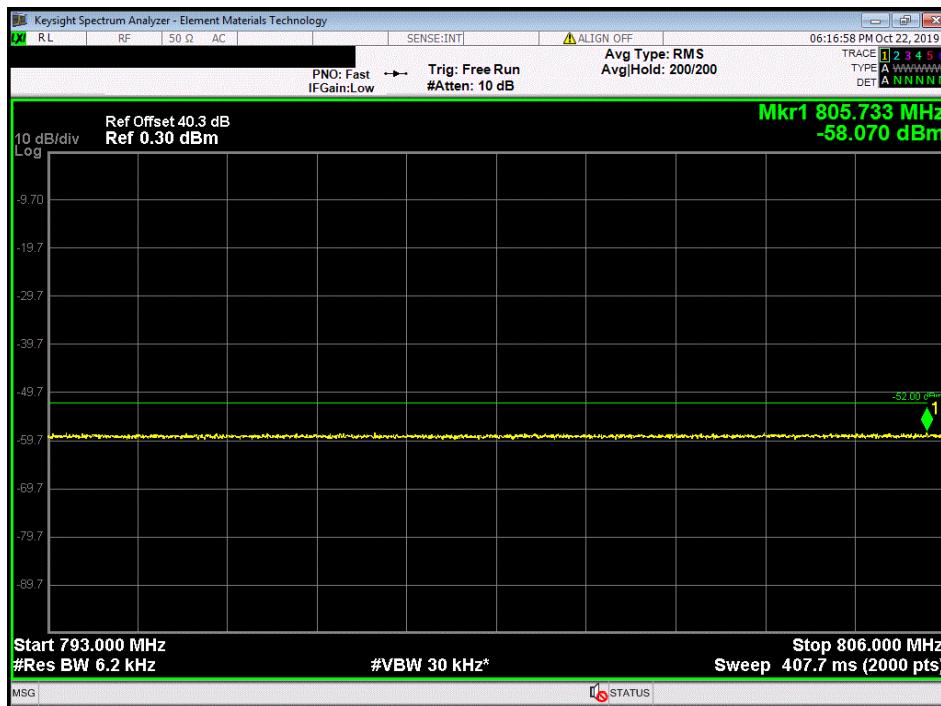


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Band 13, 64QAM Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 3			
	Value (dBm)	Limit (dBm)	Result
	-56.895	-52	Pass



Band 13, 64QAM Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 4			
	Value (dBm)	Limit (dBm)	Result
	-58.07	-52	Pass

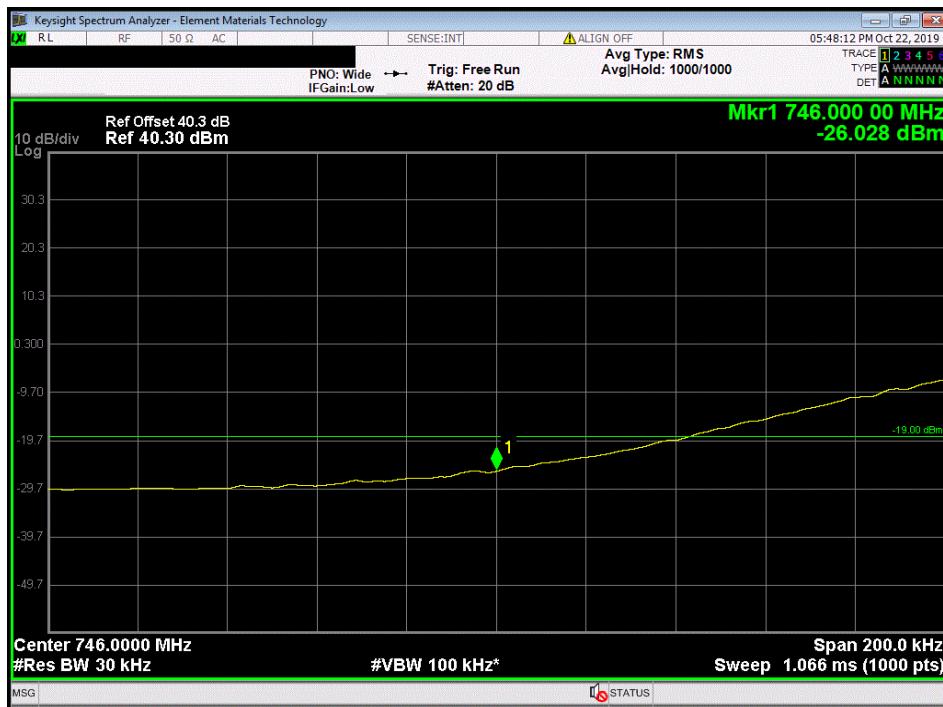


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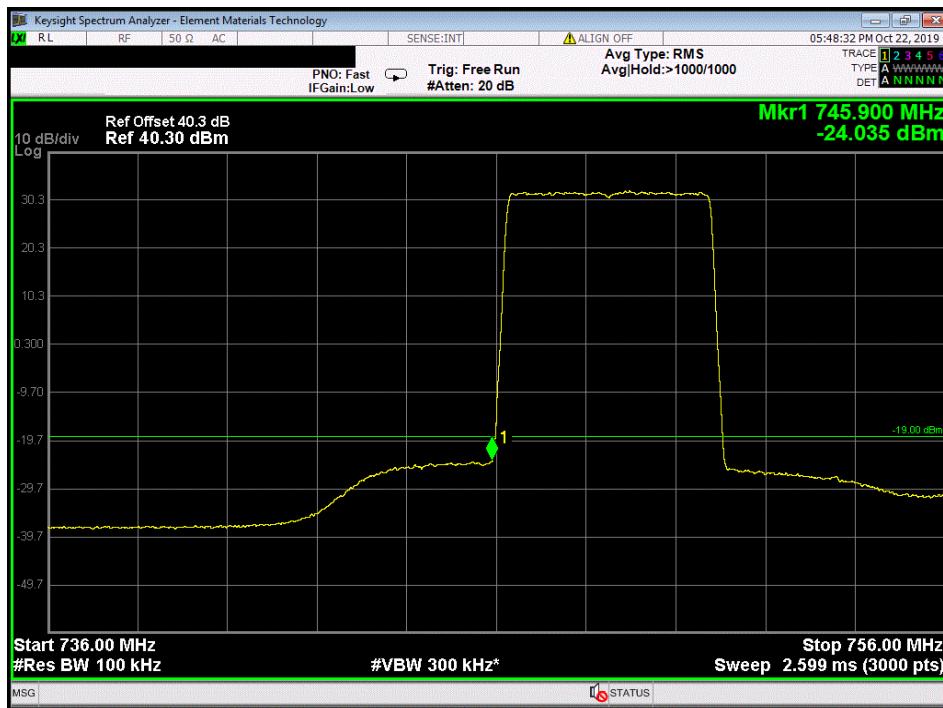


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Band 13, 256QAM Modulation, LTE5 Bandwidth, Lower Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-26.028	-19	Pass



Band 13, 256QAM Modulation, LTE5 Bandwidth, Lower Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-24.035	-19	Pass



BAND EDGE COMPLIANCE

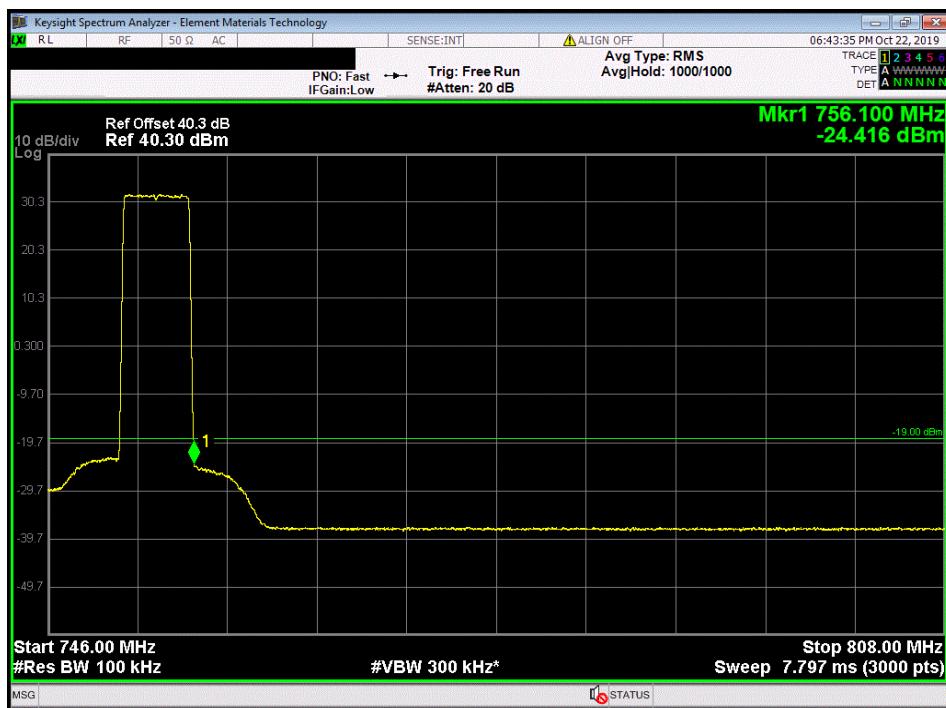


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Band 13, 256QAM Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-25.861	-19	Pass



Band 13, 256QAM Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-24.416	-19	Pass

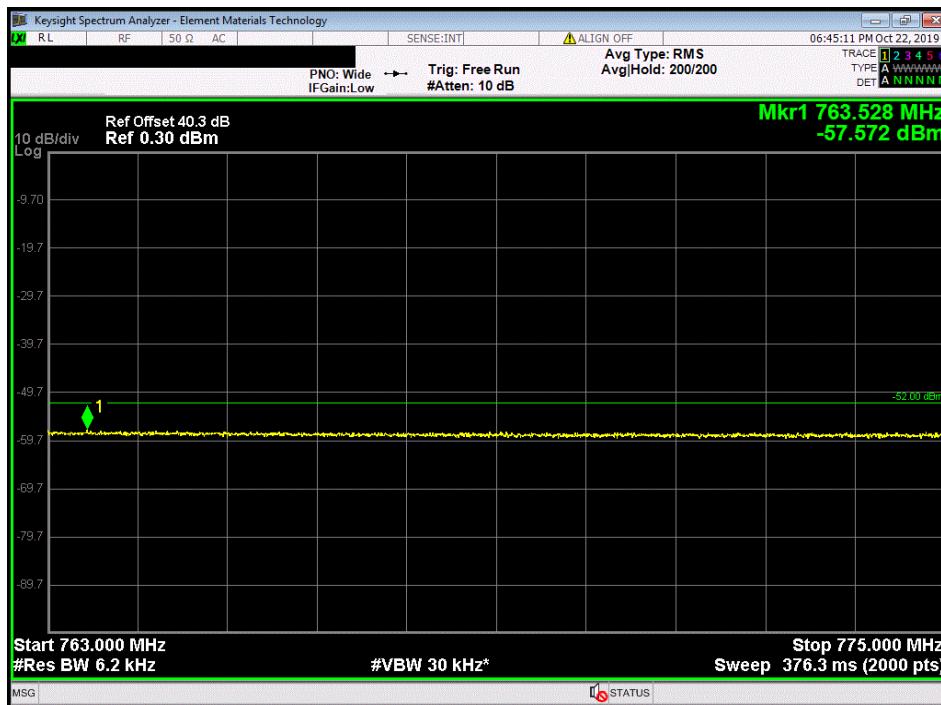


BAND EDGE COMPLIANCE

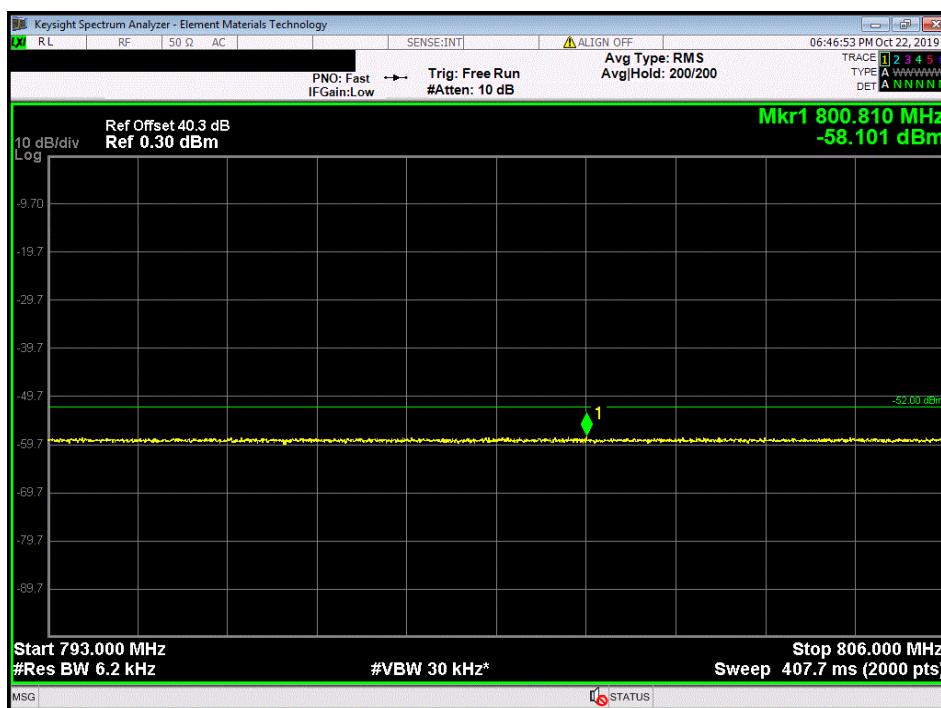


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Band 13, 256QAM Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 3		
	Value (dBm)	Limit (dBm)
	-57.572	-52



Band 13, 256QAM Modulation, LTE5 Bandwidth, Upper Band Edge, Measurement 4		
	Value (dBm)	Limit (dBm)
	-58.101	-52

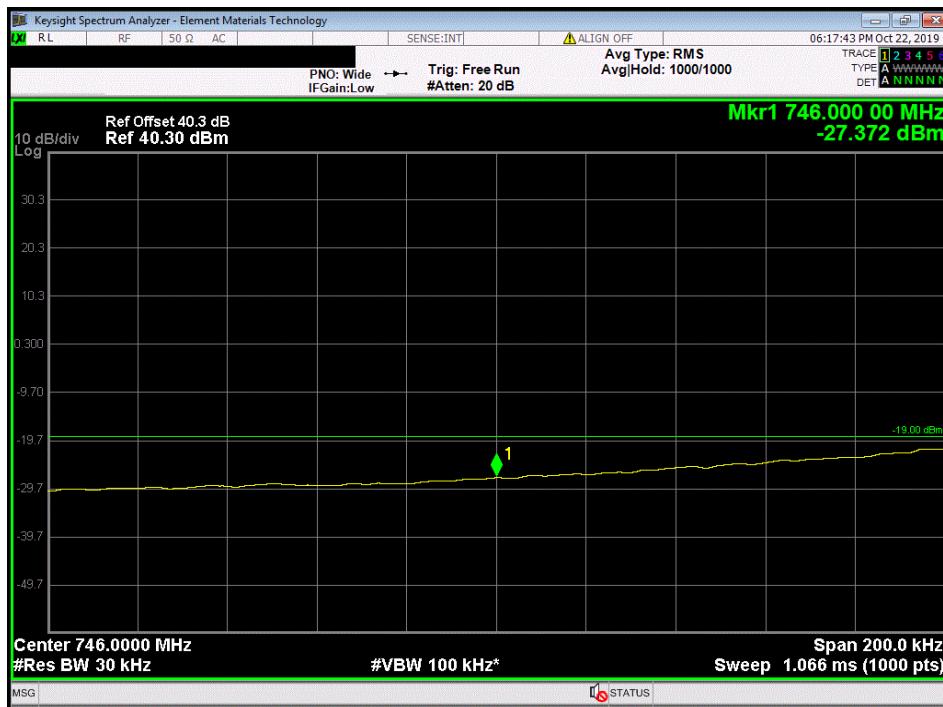


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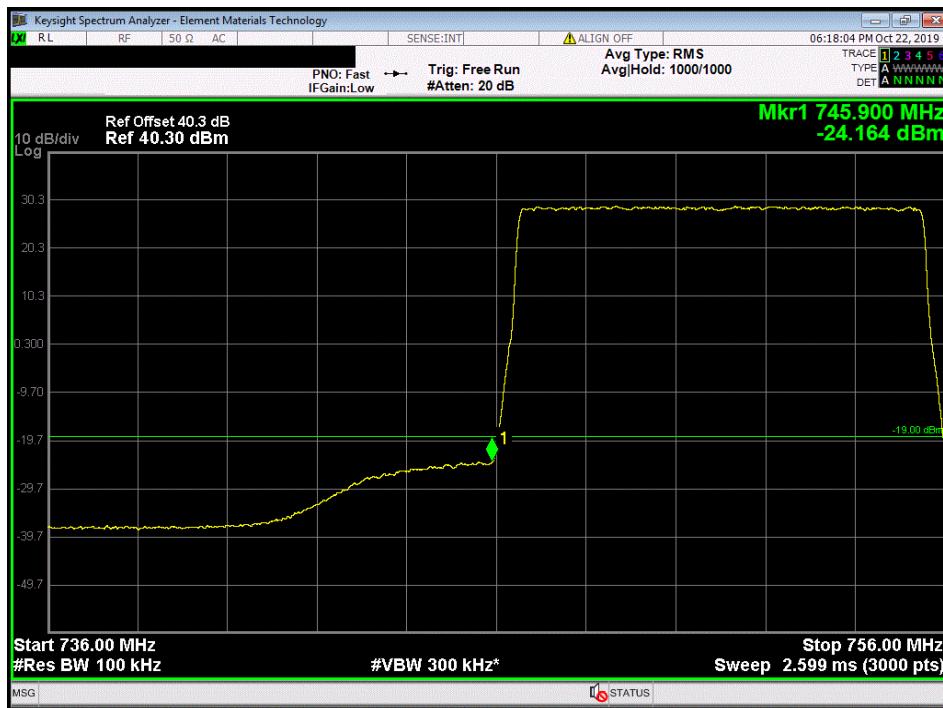


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Band 13, 256QAM Modulation, LTE10 Bandwidth, Lower Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-27.372	-19	Pass



Band 13, 256QAM Modulation, LTE10 Bandwidth, Lower Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-24.164	-19	Pass



BAND EDGE COMPLIANCE

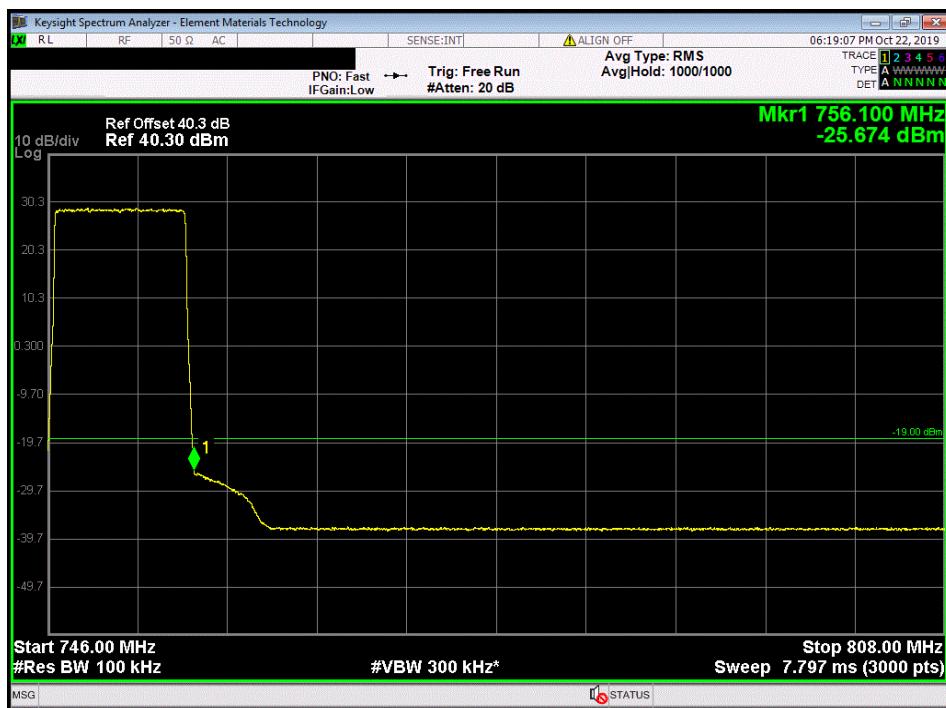


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Band 13, 256QAM Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-29.039	-19	Pass



Band 13, 256QAM Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-25.674	-19	Pass

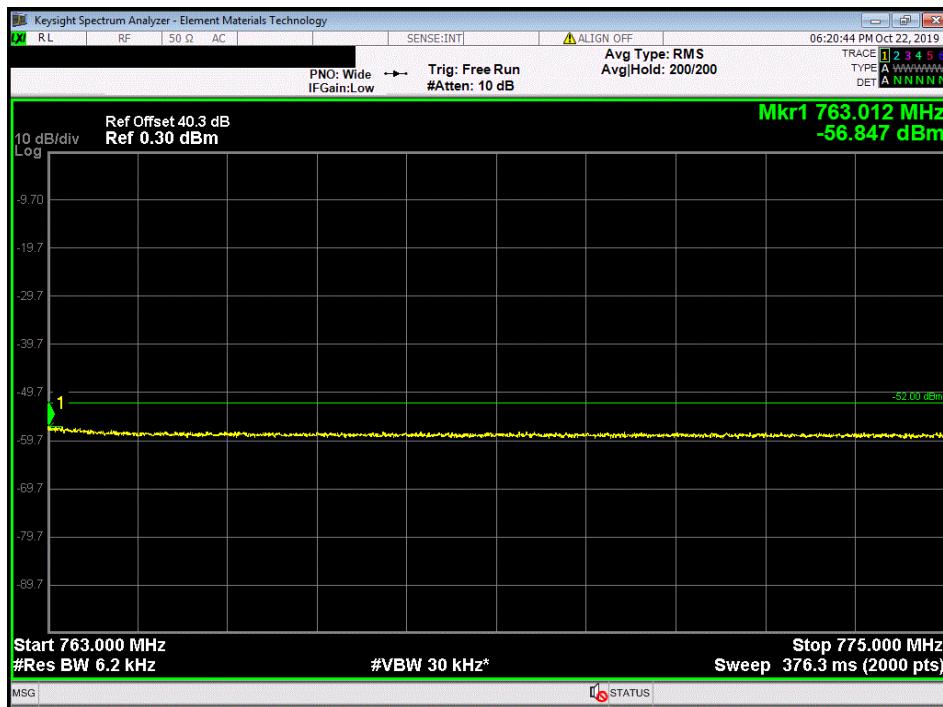


BAND EDGE COMPLIANCE

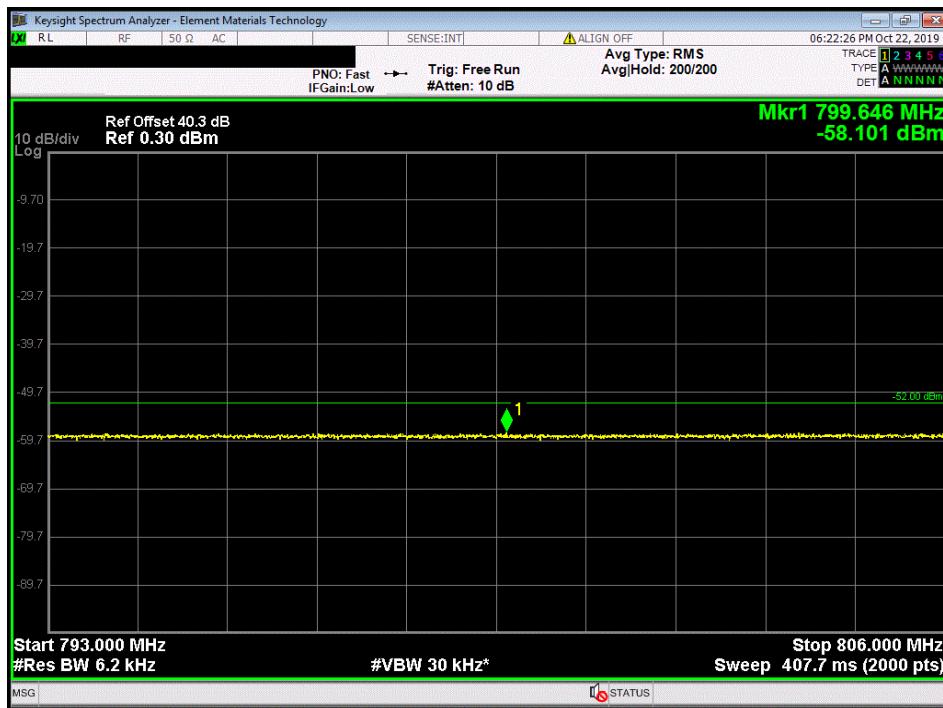


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Band 13, 256QAM Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 3		
	Value (dBm)	Limit (dBm)
	-56.847	-52



Band 13, 256QAM Modulation, LTE10 Bandwidth, Upper Band Edge, Measurement 4		
	Value (dBm)	Limit (dBm)
	-58.101	-52



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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.

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 FCC section 27.53(c), 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.

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

Section 27.53(c)(3) requires an emission limit of -46dBm for any 6.25 kHz bandwidth between frequency bands 763-775 MHz and 793-806MHz. Adjusting for the four port MIMO requirement the emission limit in these frequency ranges is -52 dBm [i.e.: Limit = -46 dBm/6.25kHz (FCC Limit) - 6dB (4 port MIMO)].

BAND EDGE COMPLIANCE



XMit 2019.09.05

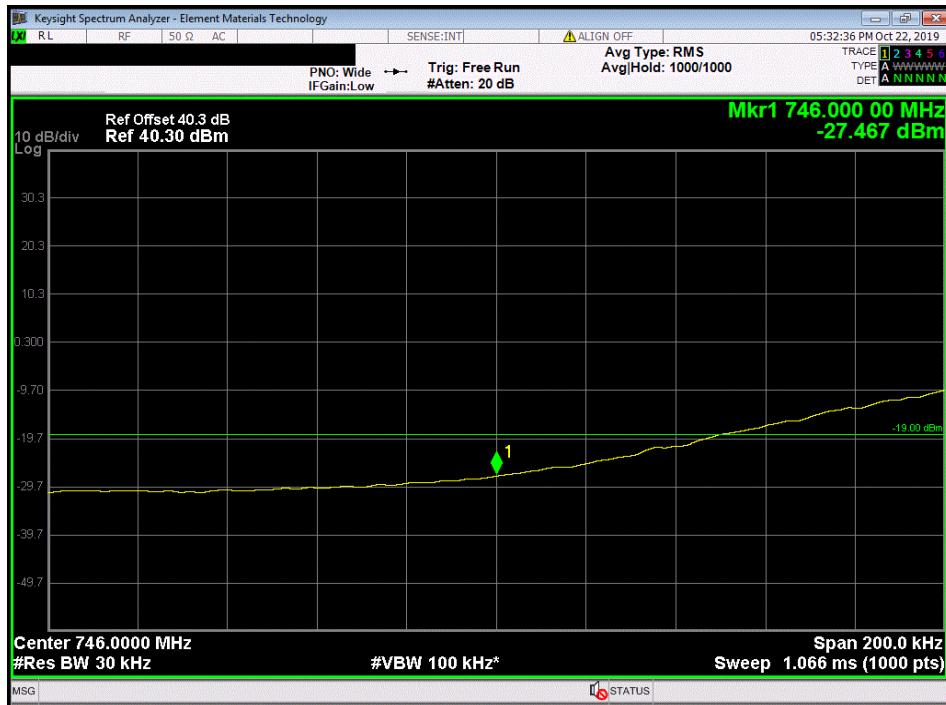
EUT:	AHBOA Remote Radio Head (RRH)	Work Order:	NOKI0003	
Serial Number:	BL1934X1001	Date:	28-Oct-19	
Customer:	Nokia Solutions and Networks	Temperature:	22.3 °C	
Attendees:	John Rattanavong, Mitchell Hill	Humidity:	49.5% RH	
Project:	None	Barometric Pres.:	1019 mbar	
Tested by:	Jonathan Kiefer	Job Site:	TX03	
TEST SPECIFICATIONS	Power: 48VDC	Test Method		
FCC 27:2019		ANSI C63.26:2015		
COMMENTS				
Tested on highest power antenna port (Port 1). EUT is operated at 100% duty cycle. Band Edge measurements were made for a Band 13 multicarrier test case on four modulation types (QPSK, 16QAM, 64QAM, 256QAM). Two LTE5 carriers were enabled at the lower and upper Band 13 band edge channels [748.5MHz and 753.5MHz]. Two LTE5 carriers cover the entire channel bandwidth so three carrier operation is not available.				
DEVIATIONS FROM TEST STANDARD				
None				
Configuration #	1	Signature	<i>Jonathan Kiefer</i>	
		Value (dBm)	Limit (dBm)	Result
Band 13				
QPSK Modulation				
Band 13 Multicarrier				
Lower Band Edge				
Measurement 1 -27.467 -19 Pass				
Measurement 2 -25.166 -19 Pass				
Upper Band Edge				
Measurement 1 -23.382 -19 Pass				
Measurement 2 -26.095 -19 Pass				
Measurement 3 -55.668 -52 Pass				
Measurement 4 -58.045 -52 Pass				
16QAM Modulation				
Band 13 Multicarrier				
Lower Band Edge				
Measurement 1 -27.411 -19 Pass				
Measurement 2 -25.356 -19 Pass				
Upper Band Edge				
Measurement 1 -28.751 -19 Pass				
Measurement 2 -26.65 -19 Pass				
Measurement 3 -55.583 -52 Pass				
Measurement 4 -58.184 -52 Pass				
64QAM Modulation				
Band 13 Multicarrier				
Lower Band Edge				
Measurement 1 -27.863 -19 Pass				
Measurement 2 -25.187 -19 Pass				
Upper Band Edge				
Measurement 1 -28.036 -19 Pass				
Measurement 2 -26.315 -19 Pass				
Measurement 3 -55.6 -52 Pass				
Measurement 4 -58.134 -52 Pass				
256QAM Modulation				
Band 13 Multicarrier				
Lower Band Edge				
Measurement 1 -27.124 -19 Pass				
Measurement 2 -25.188 -19 Pass				
Upper Band Edge				
Measurement 1 -28.693 -19 Pass				
Measurement 2 -26.466 -19 Pass				
Measurement 3 -55.677 -52 Pass				
Measurement 4 -58.013 -52 Pass				

BAND EDGE COMPLIANCE

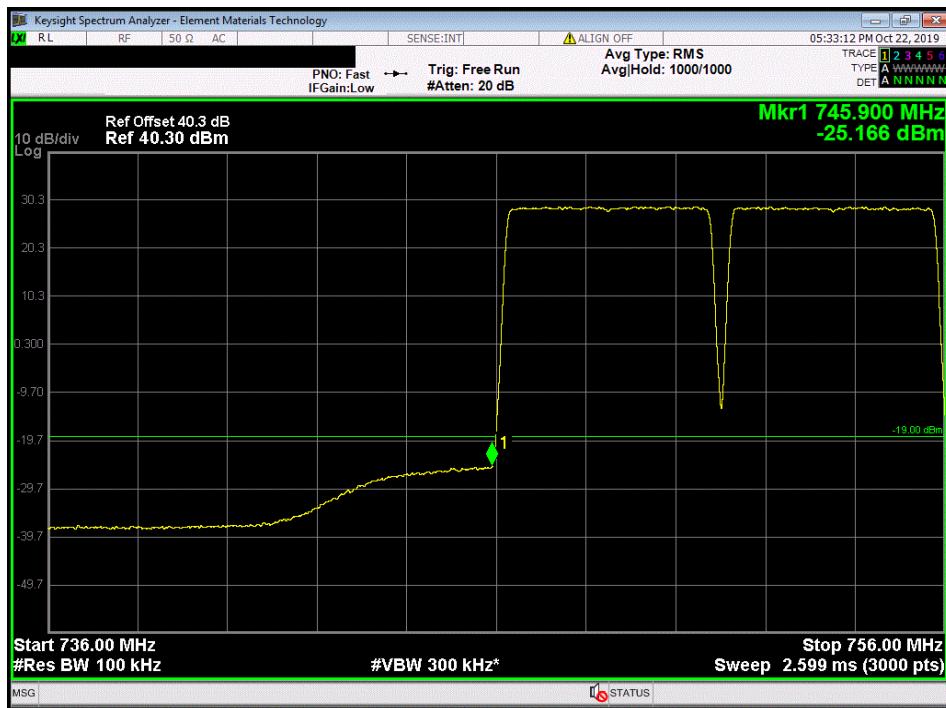


XMI: 2019.09.05

Band 13, QPSK Modulation, Band 13 Multicarrier, Lower Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-27.467	-19	Pass



Band 13, QPSK Modulation, Band 13 Multicarrier, Lower Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-25.166	-19	Pass



BAND EDGE COMPLIANCE

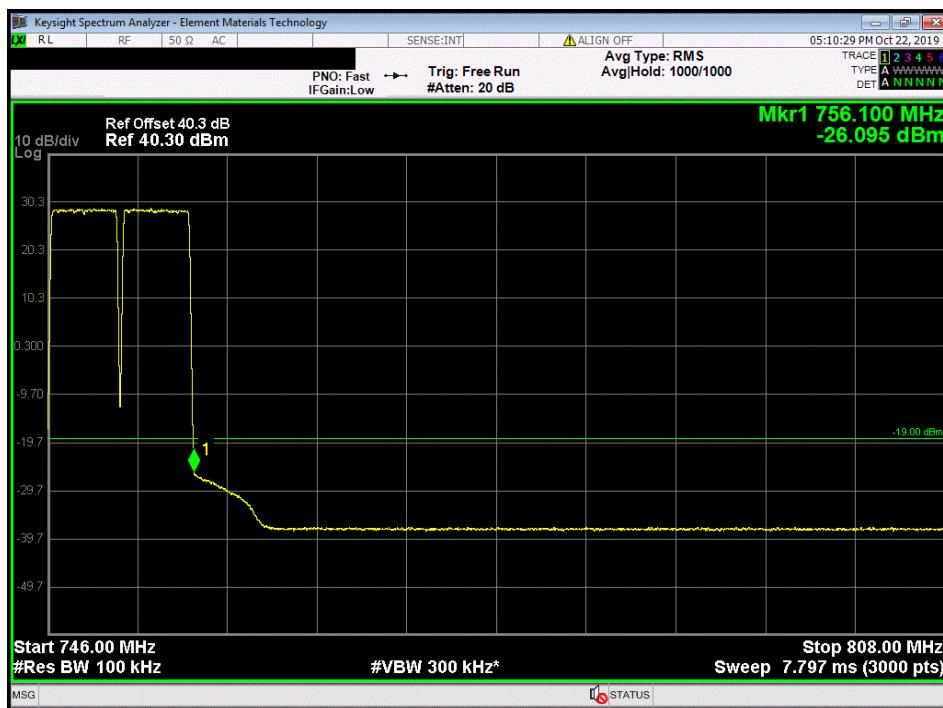


XMI 2019.09.05

Band 13, QPSK Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-23.382	-19	Pass



Band 13, QPSK Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-26.095	-19	Pass

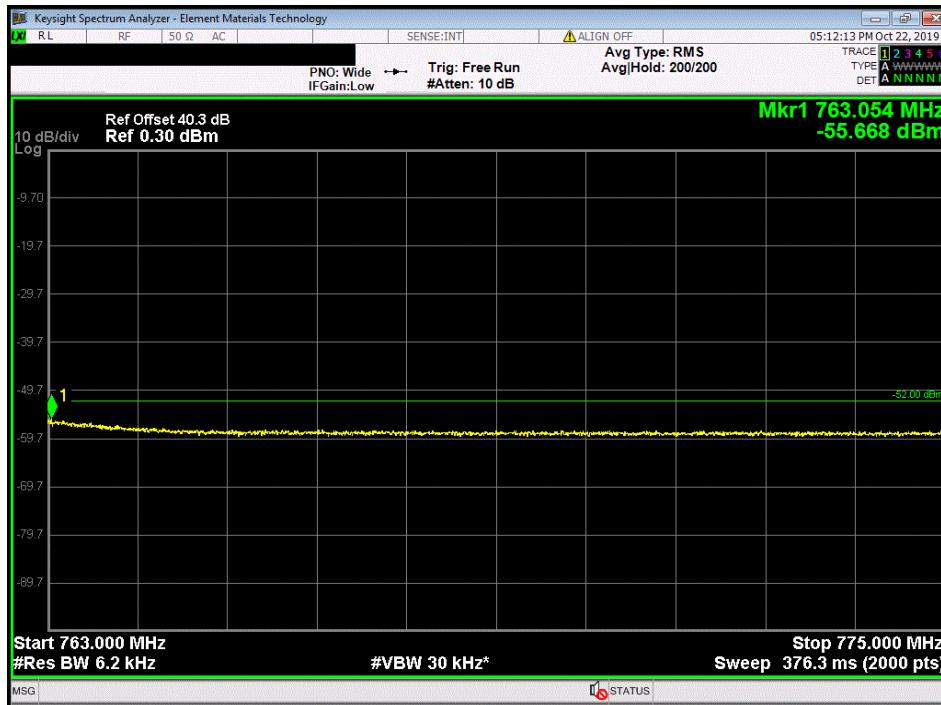


BAND EDGE COMPLIANCE

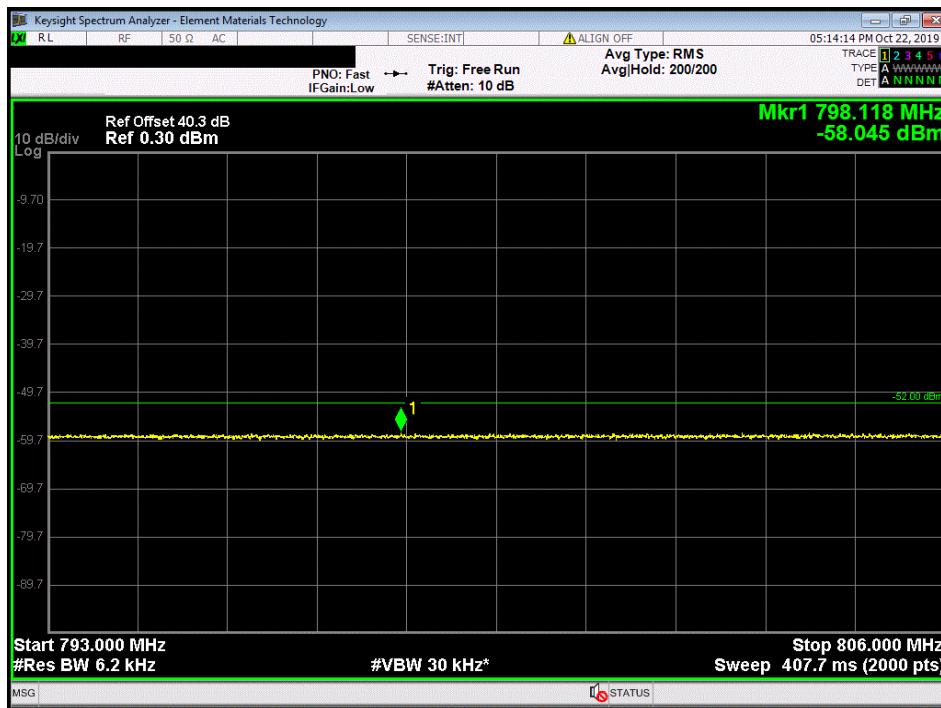


XMI: 2019.09.05

Band 13, QPSK Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 3			
	Value (dBm)	Limit (dBm)	Result
	-55.668	-52	Pass



Band 13, QPSK Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 4			
	Value (dBm)	Limit (dBm)	Result
	-58.045	-52	Pass

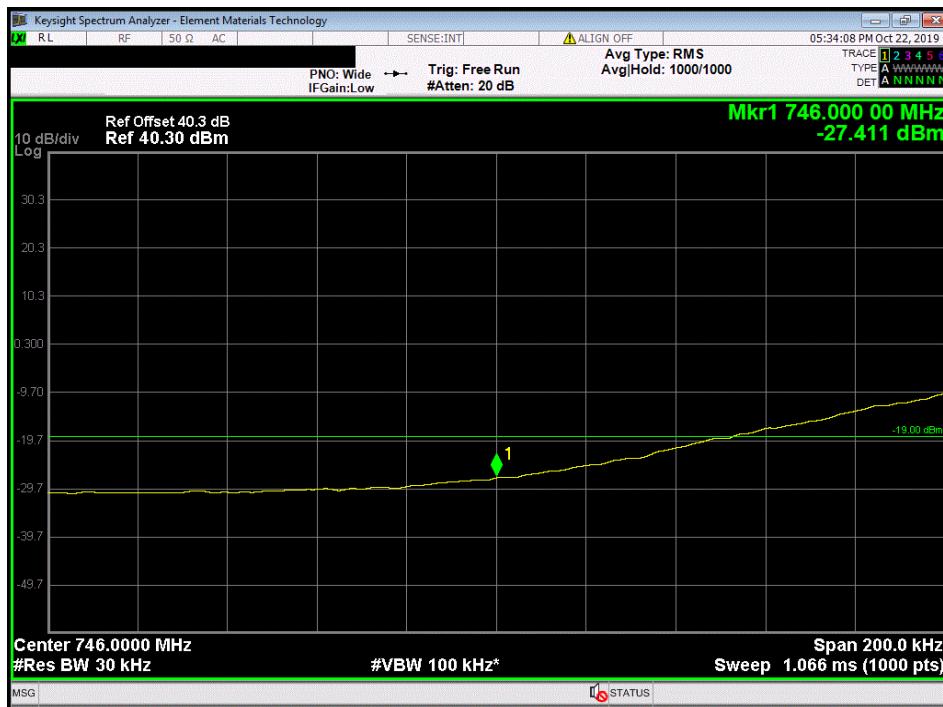


BAND EDGE COMPLIANCE



XMI 2019.09.05

Band 13, 16QAM Modulation, Band 13 Multicarrier, Lower Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-27.411	-19	Pass



Band 13, 16QAM Modulation, Band 13 Multicarrier, Lower Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-25.356	-19	Pass



BAND EDGE COMPLIANCE

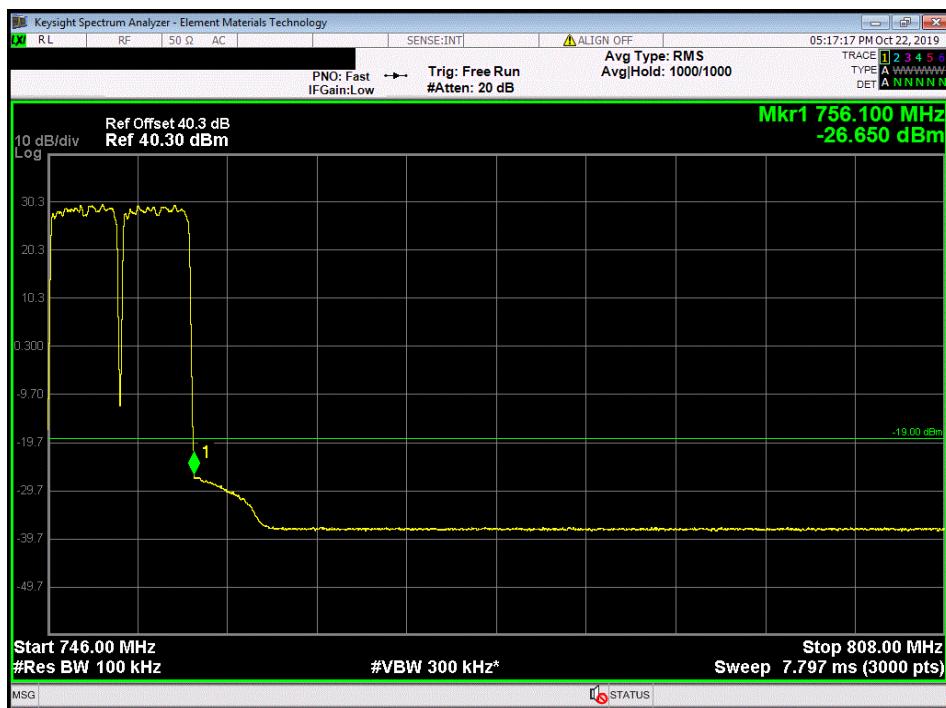


XMI: 2019.09.05

Band 13, 16QAM Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-28.751	-19	Pass



Band 13, 16QAM Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-26.65	-19	Pass

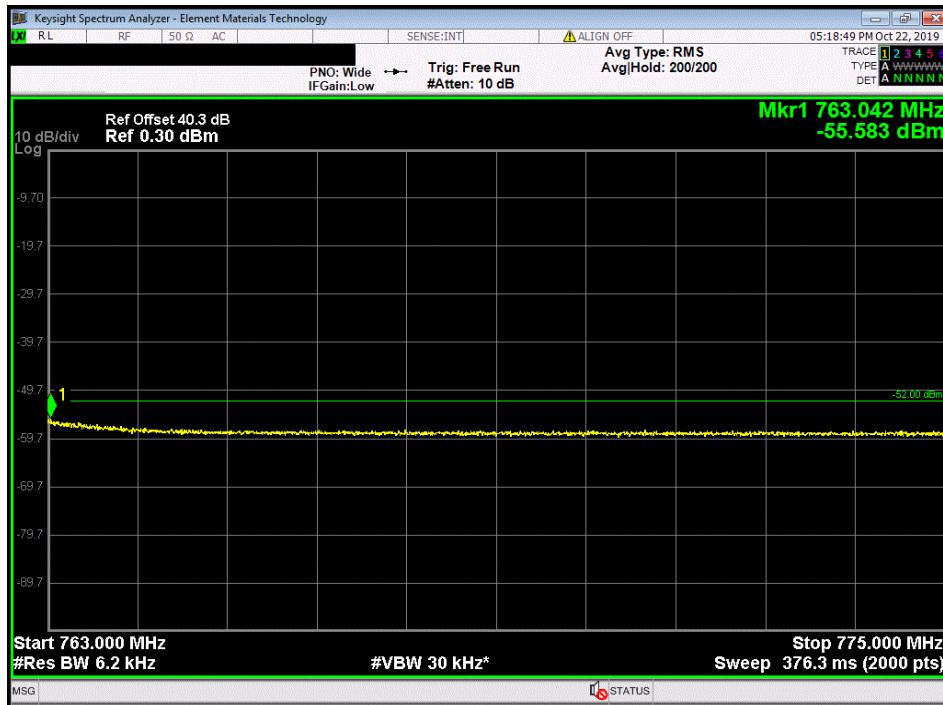


BAND EDGE COMPLIANCE

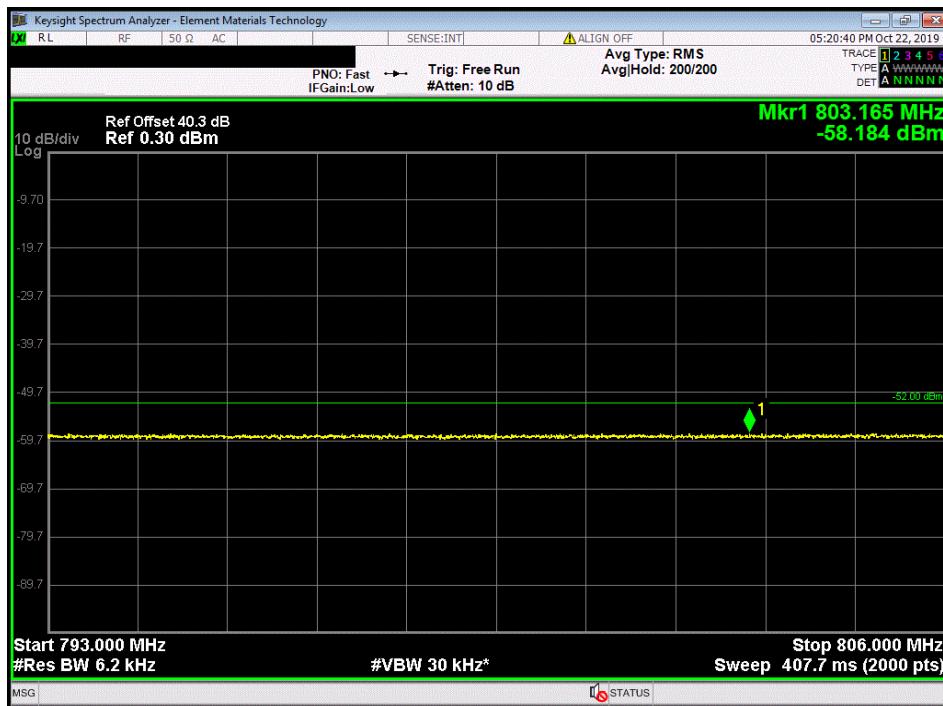


XMI: 2019.09.05

Band 13, 16QAM Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 3		
	Value (dBm)	Limit (dBm)
	-55.583	-52



Band 13, 16QAM Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 4		
	Value (dBm)	Limit (dBm)
	-58.184	-52

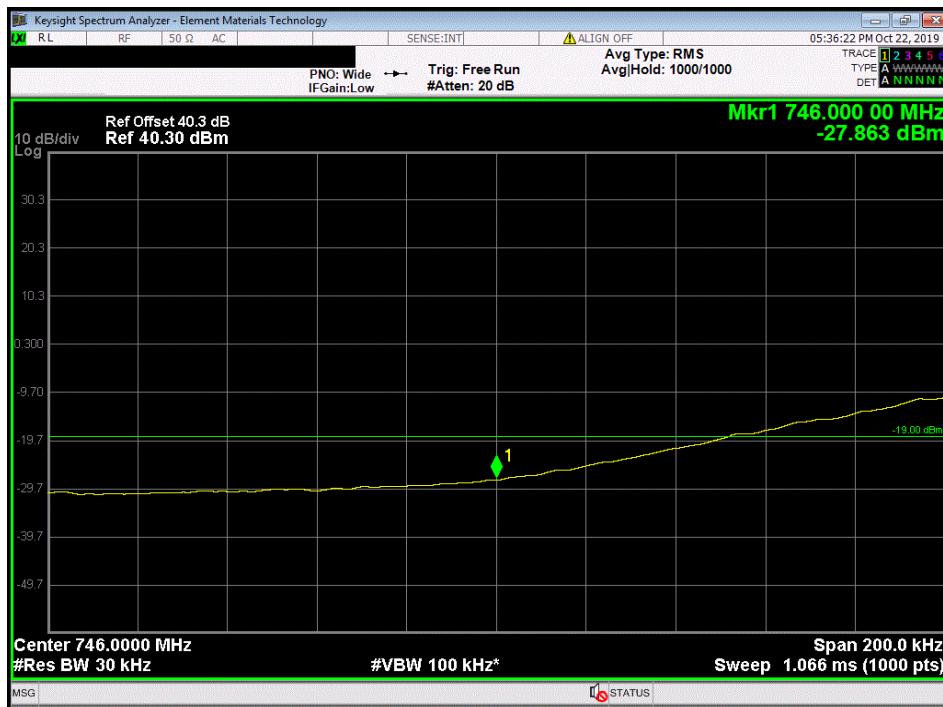


BAND EDGE COMPLIANCE



XMI: 2019.09.05

Band 13, 64QAM Modulation, Band 13 Multicarrier, Lower Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-27.863	-19	Pass



Band 13, 64QAM Modulation, Band 13 Multicarrier, Lower Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-25.187	-19	Pass



BAND EDGE COMPLIANCE

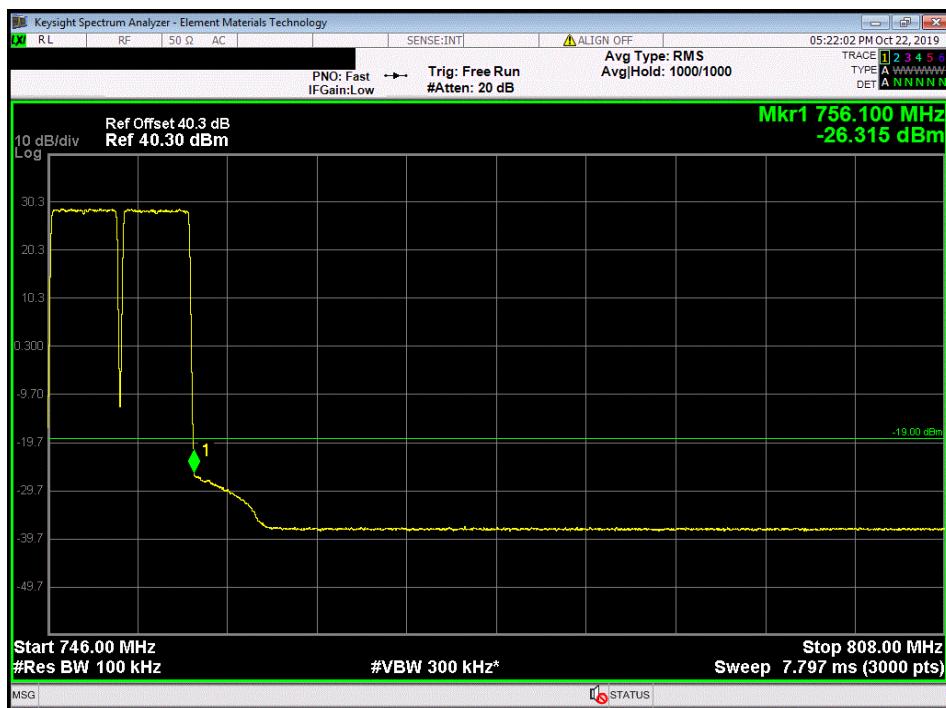


XMI: 2019.09.05

Band 13, 64QAM Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 1		
	Value (dBm)	Limit (dBm)
	-28.036	-19



Band 13, 64QAM Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 2		
	Value (dBm)	Limit (dBm)
	-26.315	-19

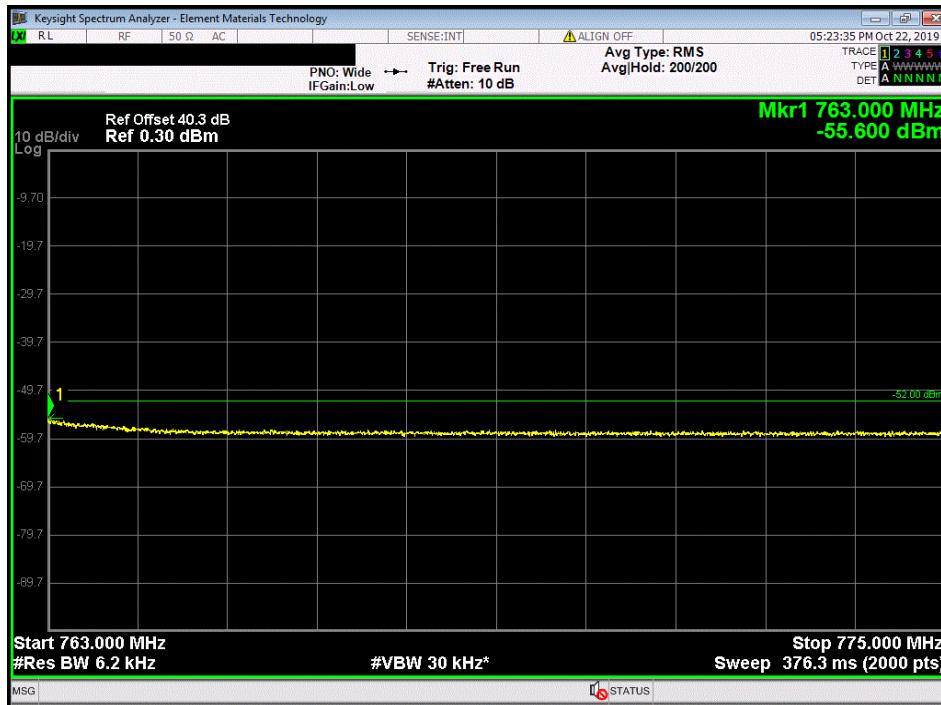


BAND EDGE COMPLIANCE

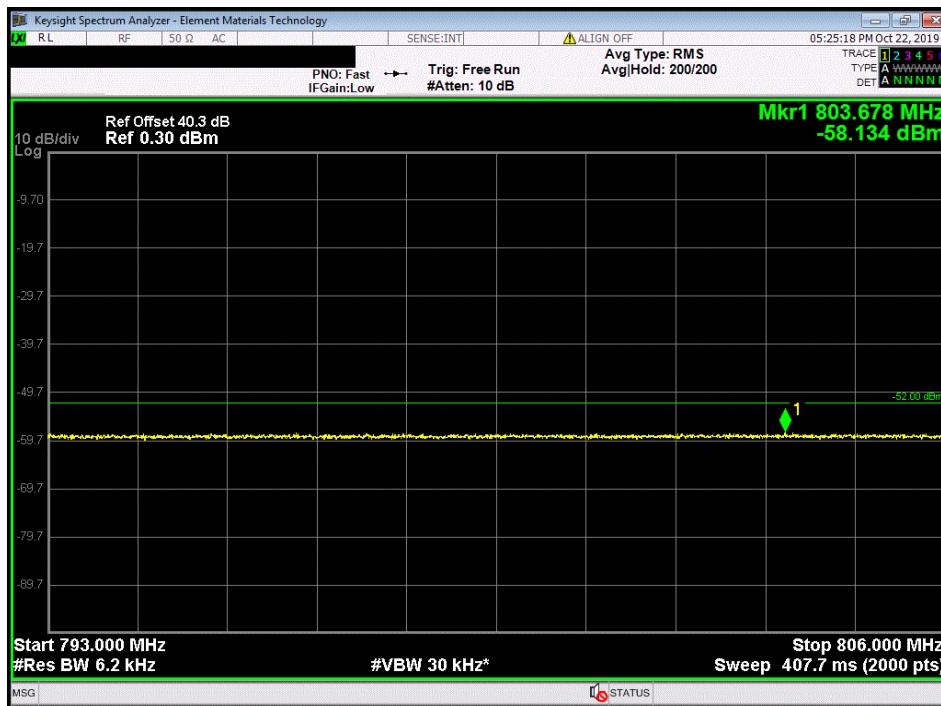


XMI 2019.09.05

Band 13, 64QAM Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 3			
	Value (dBm)	Limit (dBm)	Result
	-55.6	-52	Pass



Band 13, 64QAM Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 4			
	Value (dBm)	Limit (dBm)	Result
	-58.134	-52	Pass

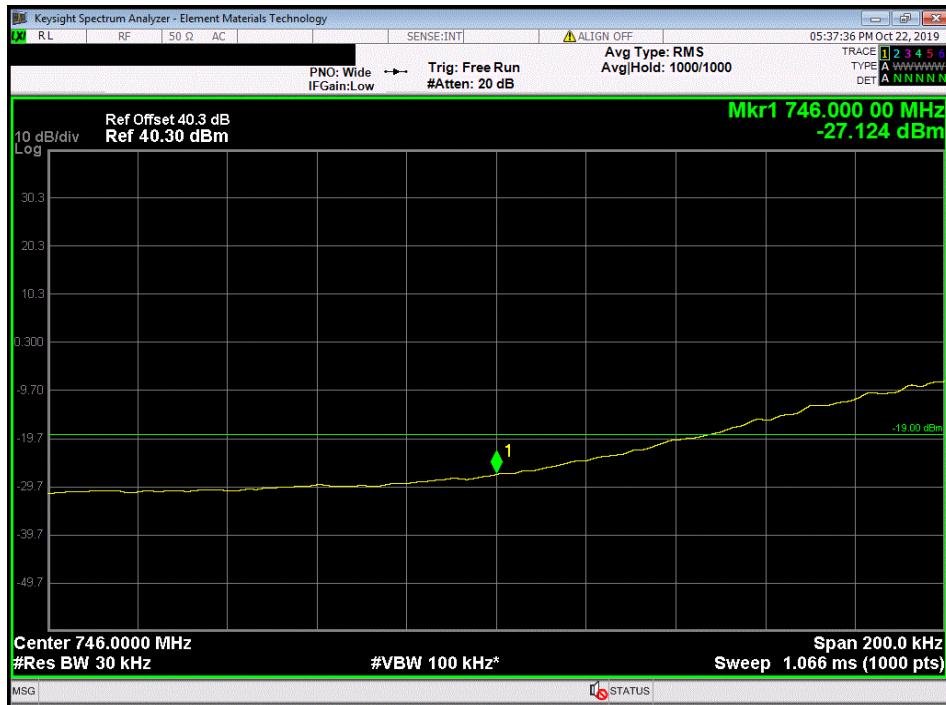


BAND EDGE COMPLIANCE

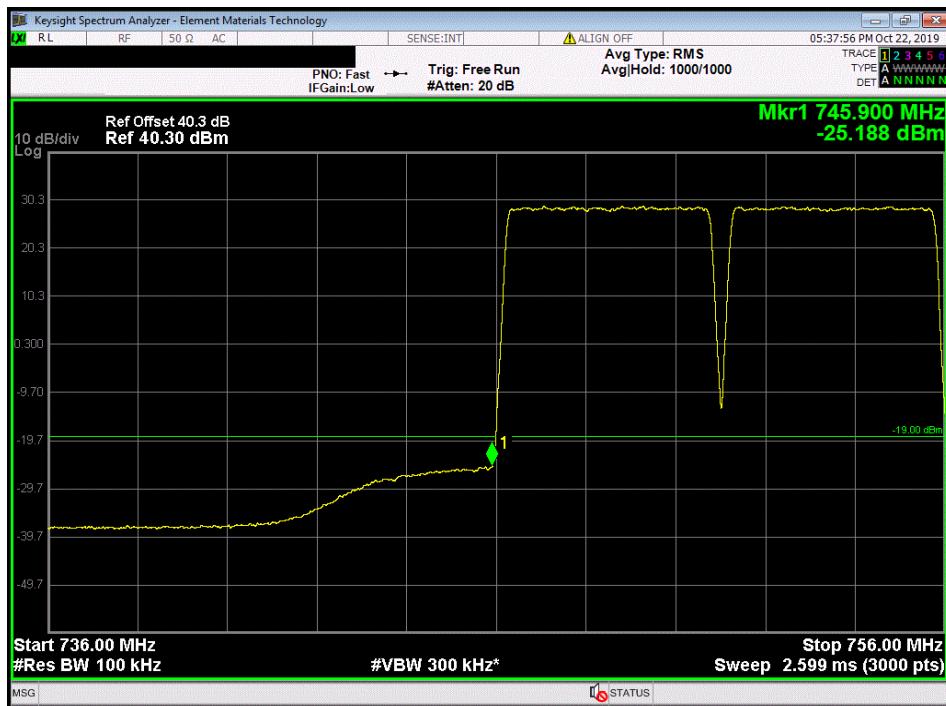


XMI: 2019.09.05

Band 13, 256QAM Modulation, Band 13 Multicarrier, Lower Band Edge, Measurement 1		
	Value (dBm)	Limit (dBm)
	-27.124	-19



Band 13, 256QAM Modulation, Band 13 Multicarrier, Lower Band Edge, Measurement 2		
	Value (dBm)	Limit (dBm)
	-25.188	-19



BAND EDGE COMPLIANCE

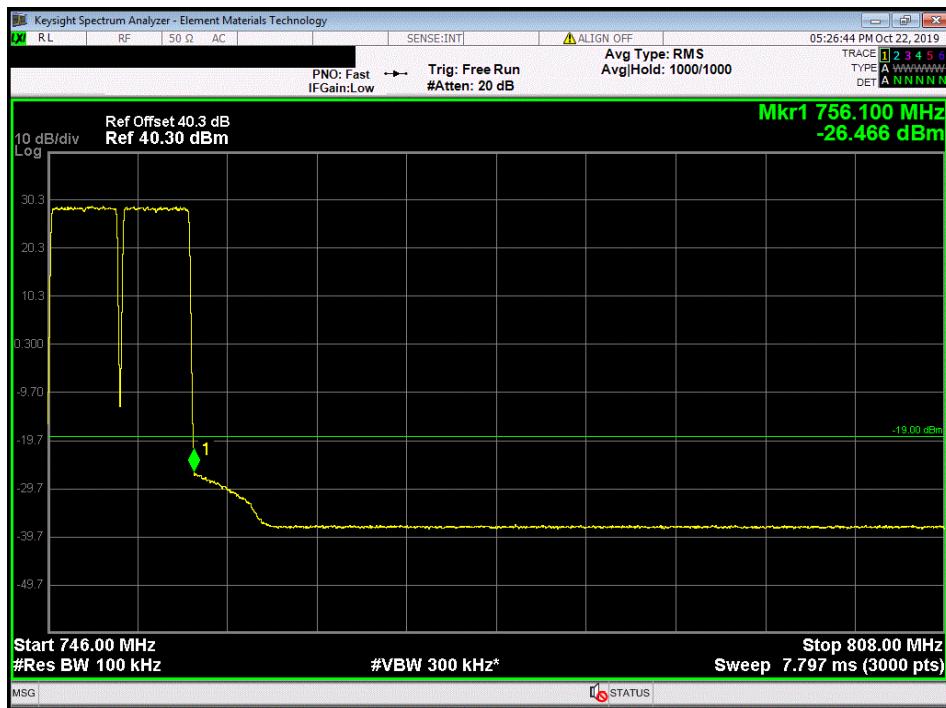


XMI 2019.09.05

Band 13, 256QAM Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 1			
	Value (dBm)	Limit (dBm)	Result
	-28.693	-19	Pass



Band 13, 256QAM Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 2			
	Value (dBm)	Limit (dBm)	Result
	-26.466	-19	Pass

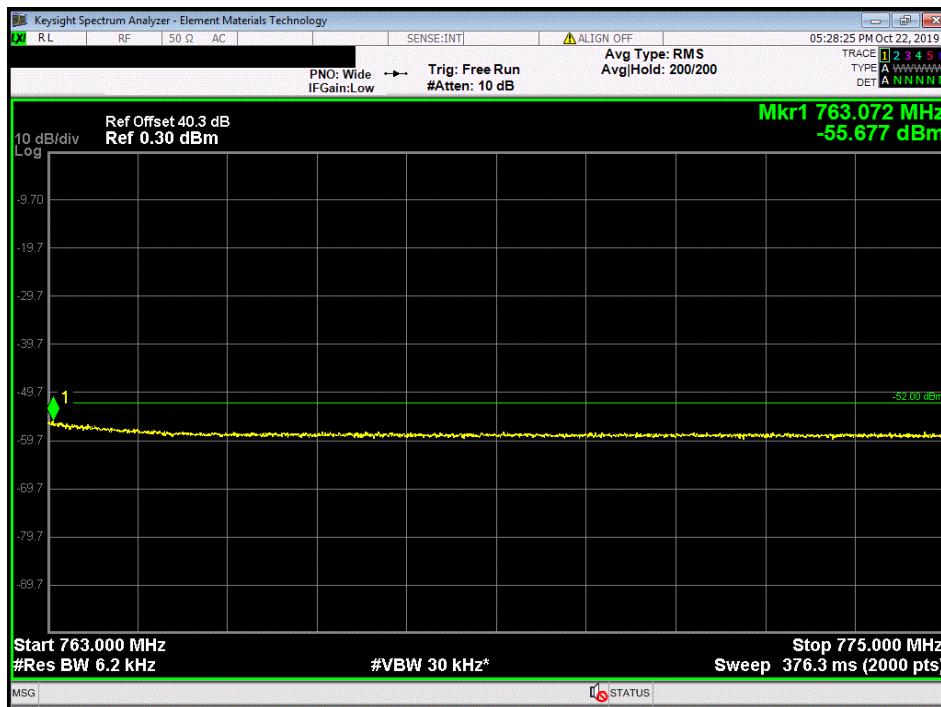


BAND EDGE COMPLIANCE



XMI: 2019.09.05

Band 13, 256QAM Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 3		
	Value (dBm)	Limit (dBm)
	-55.677	-52



Band 13, 256QAM Modulation, Band 13 Multicarrier, Upper Band Edge, Measurement 4		
	Value (dBm)	Limit (dBm)
	-58.013	-52

