

SPURIOUS CONDUCTED EMISSIONS - 4 PORT MODE



element

XMIT 2020.03.25.0

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	SD3379	AMM	21-Sep-20	21-Sep-21
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	27-Feb-20	27-Feb-21
Generator - Signal	Agilent	N5173B	TIW	17-Jul-20	17-Jul-23

TEST DESCRIPTION

The antenna port spurious emissions were measured at the RF output terminal of the EUT through 4 different attenuation configurations which continues through to the RF input of the spectrum analyzer. Analyzer plots utilizing a resolution bandwidth called out by the client's test plan were made for each modulation type from 9 KHz to 22 GHz. The peak conducted power of spurious emissions, up to the 10th harmonic of the transmit frequency, were investigated to ensure they were less than the limits also called out by the client's test plan shown below.

The measurement methods are detailed in KDB971168 D01v03 section 6 and ANSI C63.26-2015.

Per FCC 2.1057(a)(1) and RSS Gen 6.13, the upper level of measurement is the 10th harmonic of the highest fundamental frequency.

These measurements are for frequency band after the first 1.0 MHz bands immediately outside and adjacent to the frequency block.

Per section FCC 27.53(h)(1), and RSS-139 6.6 the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm for a 1 MHz measurement bandwidth. 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.

The limit for the 9kHz to 150kHz frequency range was adjusted to -49dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.: $-49\text{dBm} = -19\text{dBm} - 10\log(1\text{MHz}/1\text{kHz})$]. The limit for the 150kHz to 20MHz frequency range was adjusted to -39dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.: $-39\text{dBm} = -19\text{dBm} - 10\log(1\text{MHz}/10\text{kHz})$]. The required limit of -19dBm with a RBW of > 1MHz was used for all other frequency ranges.

RF conducted emissions testing was performed on one port. The FRIG antenna ports are essentially electrically identical (the RF power variation between antenna ports is small) and port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4.

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EUT: FRIG (C2PC FCC/ISED Approval for 5G)		Work Order: NOKI0025	
Serial Number: RY142309120		Date: 4-Dec-20	
Customer: Nokia Solutions and Networks		Temperature: 23.9 °C	
Attendees: Mitchell Hill, John Rattanavong		Humidity: 28.5% RH	
Project: None		Barometric Pres.: 1026 mbar	
Tested by: Brandon Hobbs		Power: 54 VDC	
		Job Site: TX05	
TEST SPECIFICATIONS			
FCC 27:2020		Test Method	
RSS-139:2015		ANSI C63.26:2015	
		RSS-139:2015	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. AWS Band 1 carriers are enabled at maximum power (MIMO 4x4, 30 watts/carrier). Spurious emission measurements were made for a single carrier on port 1.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1,2,3,4	Signature	
		Frequency Range	Value (dBm) Limit (dBm) Result
30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz			
5 MHz Bandwidth			
QPSK Modulation			
	Mid Channel 2132.5 MHz	9 kHz - 150 kHz	-55.95 -49 Pass
	Mid Channel 2132.5 MHz	150 kHz - 20 MHz	-52.01 -39 Pass
	Mid Channel 2132.5 MHz	20 MHz - 3 GHz	-26.34 -19 Pass
	Mid Channel 2132.5 MHz	3 GHz - 10 GHz	-33.91 -19 Pass
	Mid Channel 2132.5 MHz	10 GHz - 18 GHz	-31.41 -19 Pass
	Mid Channel 2132.5 MHz	18 GHz - 22 GHz	-27.88 -19 Pass
16-QAM Modulation			
	Mid Channel 2132.5 MHz	9 kHz - 150 kHz	-58.46 -49 Pass
	Mid Channel 2132.5 MHz	150 kHz - 20 MHz	-53.75 -39 Pass
	Mid Channel 2132.5 MHz	20 MHz - 3 GHz	-25.98 -19 Pass
	Mid Channel 2132.5 MHz	3 GHz - 10 GHz	-34.66 -19 Pass
	Mid Channel 2132.5 MHz	10 GHz - 18 GHz	-31.61 -19 Pass
	Mid Channel 2132.5 MHz	18 GHz - 22 GHz	-27.91 -19 Pass
64-QAM Modulation			
	Mid Channel 2132.5 MHz	9 kHz - 150 kHz	-56.56 -49 Pass
	Mid Channel 2132.5 MHz	150 kHz - 20 MHz	-54.17 -39 Pass
	Mid Channel 2132.5 MHz	20 MHz - 3 GHz	-26.29 -19 Pass
	Mid Channel 2132.5 MHz	3 GHz - 10 GHz	-33.24 -19 Pass
	Mid Channel 2132.5 MHz	10 GHz - 18 GHz	-31.58 -19 Pass
	Mid Channel 2132.5 MHz	18 GHz - 22 GHz	-28.16 -19 Pass
256-QAM Modulation			
	Mid Channel 2132.5 MHz	9 kHz - 150 kHz	-55.86 -49 Pass
	Mid Channel 2132.5 MHz	150 kHz - 20 MHz	-54.22 -39 Pass
	Mid Channel 2132.5 MHz	20 MHz - 3 GHz	-25.64 -19 Pass
	Mid Channel 2132.5 MHz	3 GHz - 10 GHz	-34.30 -19 Pass
	Mid Channel 2132.5 MHz	10 GHz - 18 GHz	-31.47 -19 Pass
	Mid Channel 2132.5 MHz	18 GHz - 22 GHz	-28.11 -19 Pass
10 MHz Bandwidth			
256-QAM Modulation			
	Mid Channel 2132.5 MHz	9 kHz - 150 kHz	-58.21 -49 Pass
	Mid Channel 2132.5 MHz	150 kHz - 20 MHz	-54.78 -39 Pass
	Mid Channel 2132.5 MHz	20 MHz - 3 GHz	-26.40 -19 Pass
	Mid Channel 2132.5 MHz	3 GHz - 10 GHz	-33.61 -19 Pass
	Mid Channel 2132.5 MHz	10 GHz - 18 GHz	-31.68 -19 Pass
	Mid Channel 2132.5 MHz	18 GHz - 22 GHz	-27.84 -19 Pass
15 MHz Bandwidth			
256-QAM Modulation			
	Mid Channel 2132.5 MHz	9 kHz - 150 kHz	-56.94 -49 Pass
	Mid Channel 2132.5 MHz	150 kHz - 20 MHz	-57.06 -39 Pass
	Mid Channel 2132.5 MHz	20 MHz - 3 GHz	-25.54 -19 Pass
	Mid Channel 2132.5 MHz	3 GHz - 10 GHz	-34.03 -19 Pass
	Mid Channel 2132.5 MHz	10 GHz - 18 GHz	-32.06 -19 Pass
	Mid Channel 2132.5 MHz	18 GHz - 22 GHz	-27.67 -19 Pass
20 MHz Bandwidth			
256-QAM Modulation			
	Mid Channel 2132.5 MHz	9 kHz - 150 kHz	-56.57 -49 Pass
	Mid Channel 2132.5 MHz	150 kHz - 20 MHz	-55.30 -39 Pass
	Mid Channel 2132.5 MHz	20 MHz - 3 GHz	-26.00 -19 Pass
	Mid Channel 2132.5 MHz	3 GHz - 10 GHz	-33.79 -19 Pass
	Mid Channel 2132.5 MHz	10 GHz - 18 GHz	-31.76 -19 Pass
	Mid Channel 2132.5 MHz	18 GHz - 22 GHz	-27.76 -19 Pass

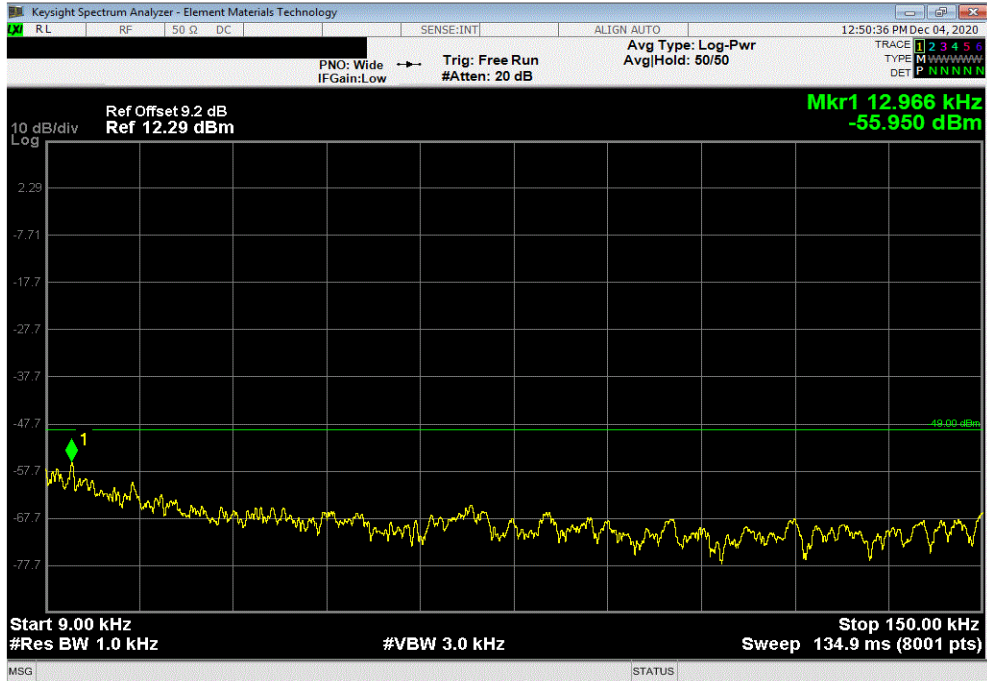
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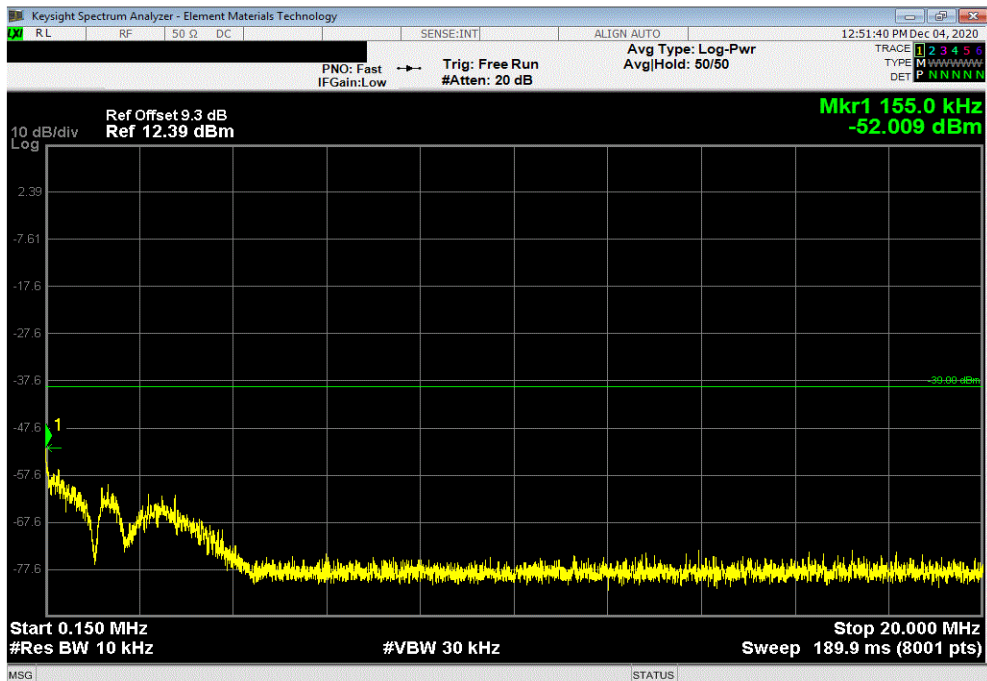
30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 2132.5 MHz

Frequency Range		Value (dBm)	Limit (dBm)	Result
9 kHz - 150 kHz		-55.95	-49	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 2132.5 MHz

Frequency Range		Value (dBm)	Limit (dBm)	Result
150 kHz - 20 MHz		-52.01	-39	Pass

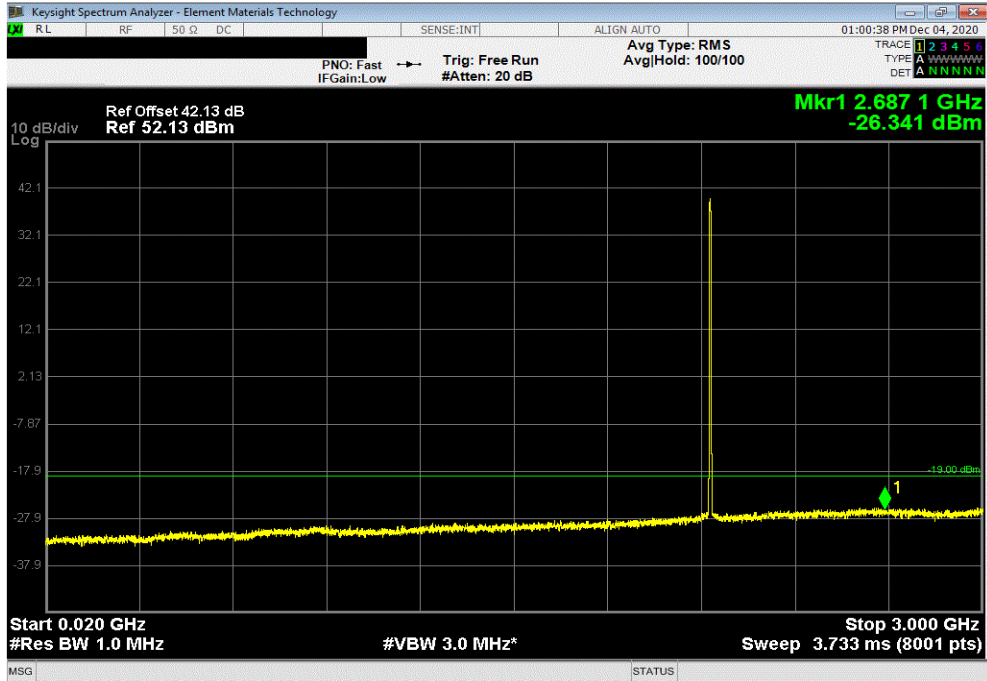


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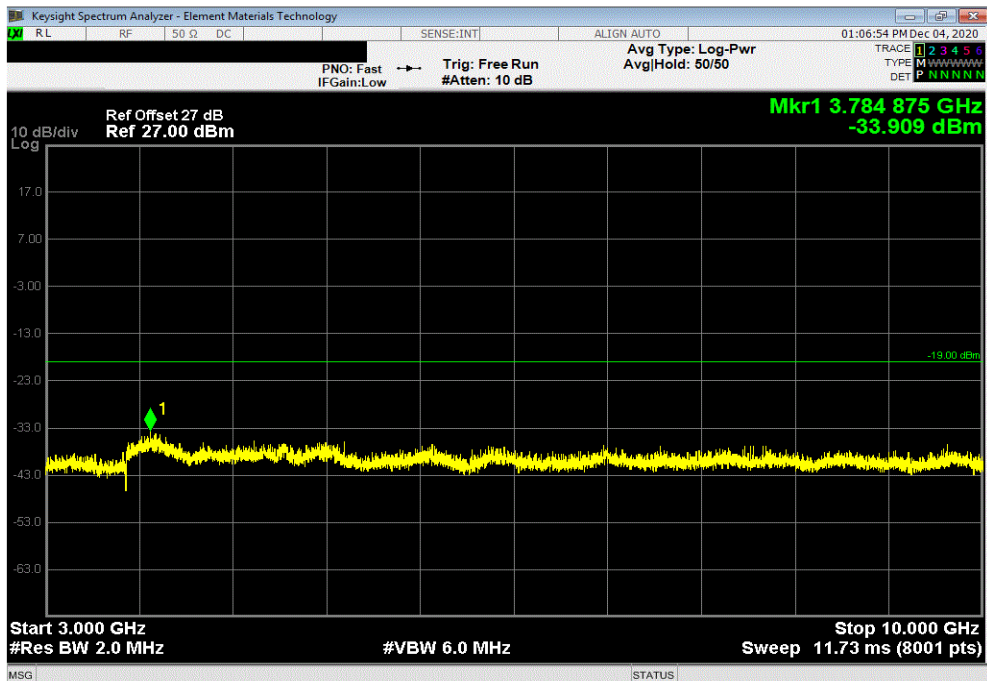


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
20 MHz - 3 GHz		-26.34	-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
3 GHz - 10 GHz		-33.91	-19	Pass	



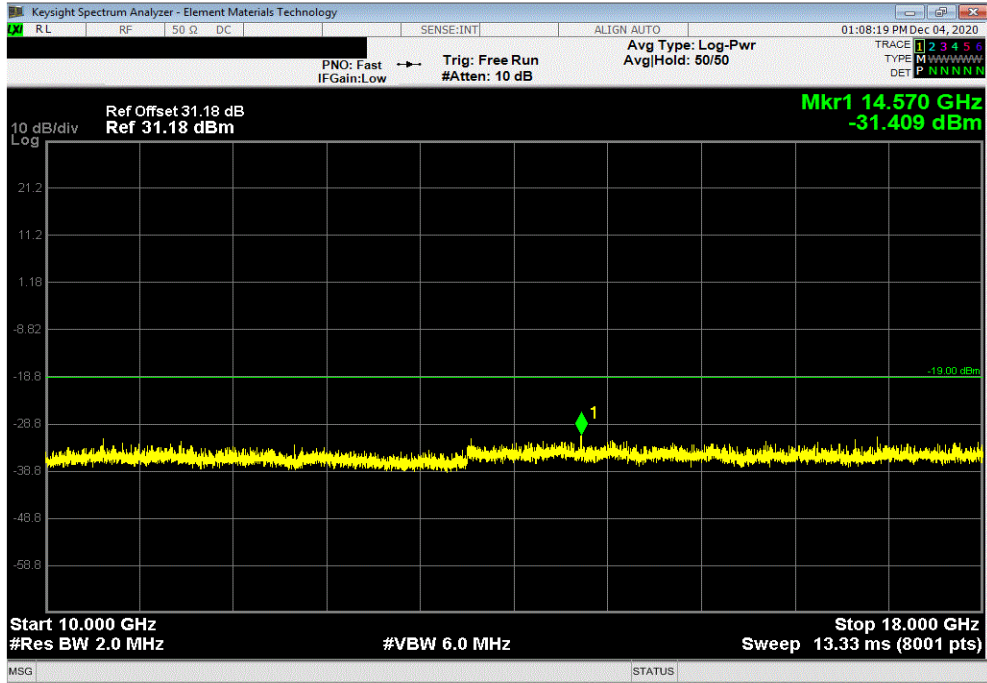
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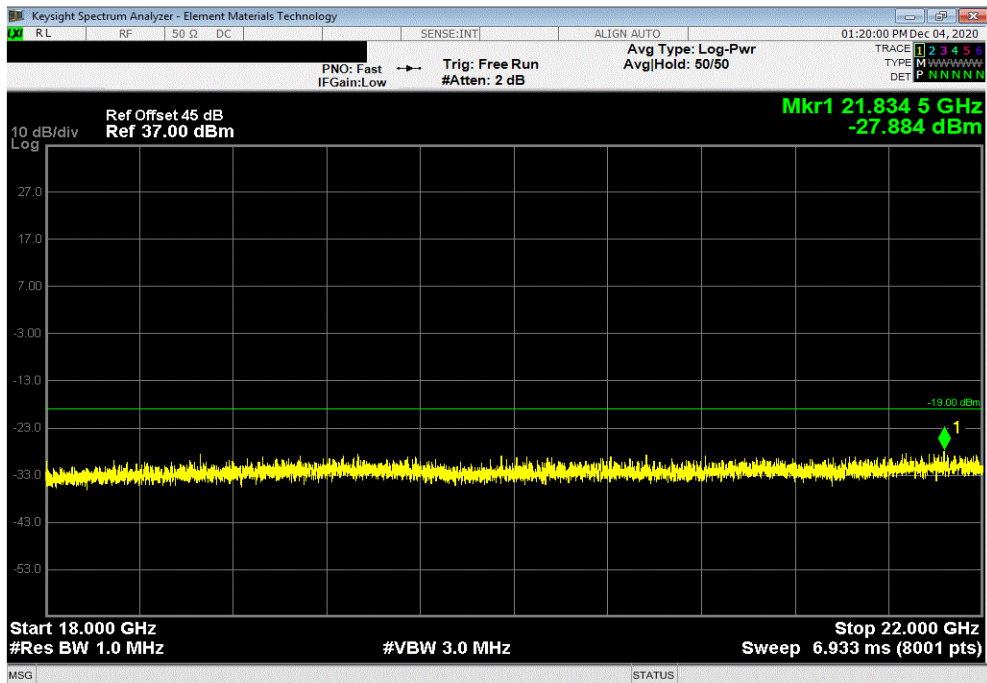
30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 2132.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
10 GHz - 18 GHz	-31.41	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 2132.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
18 GHz - 22 GHz	-27.88	-19	Pass

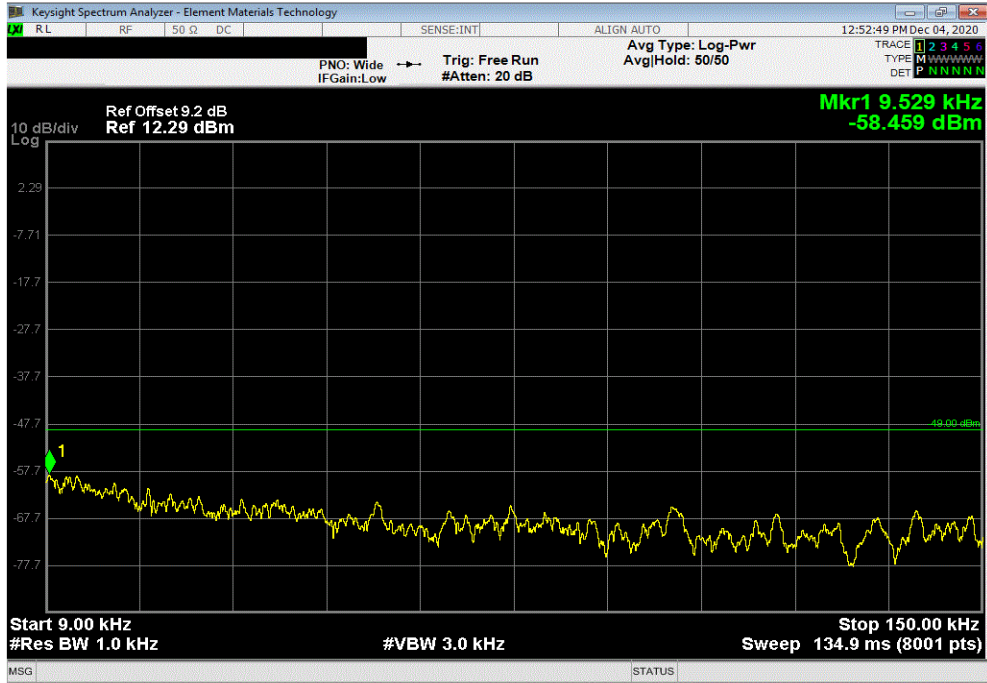


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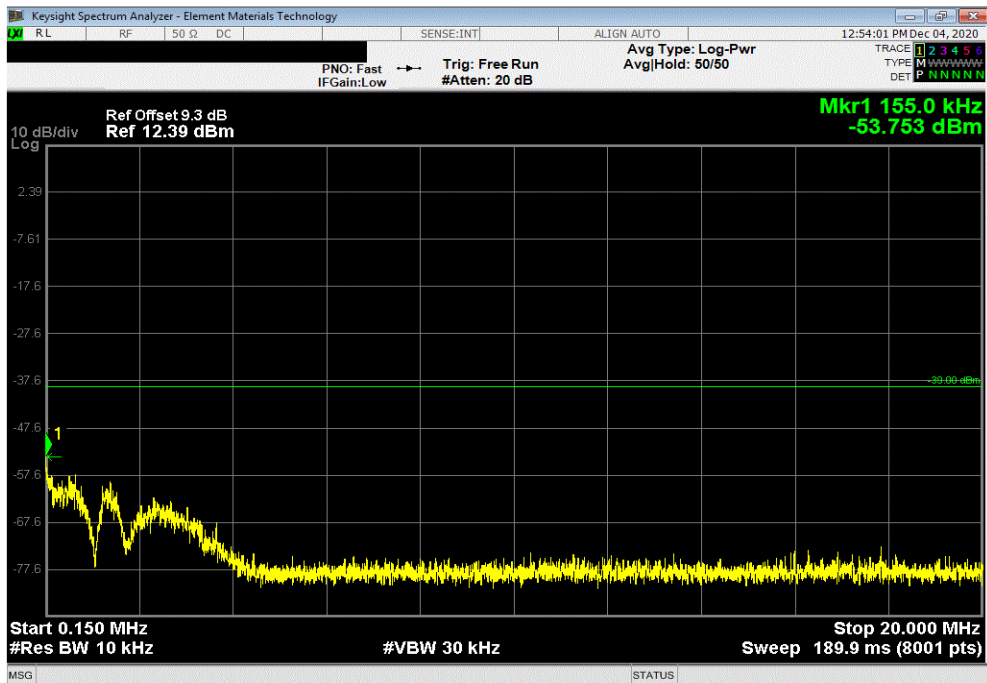


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz		-58.46	-49	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
150 kHz - 20 MHz		-53.75	-39	Pass	

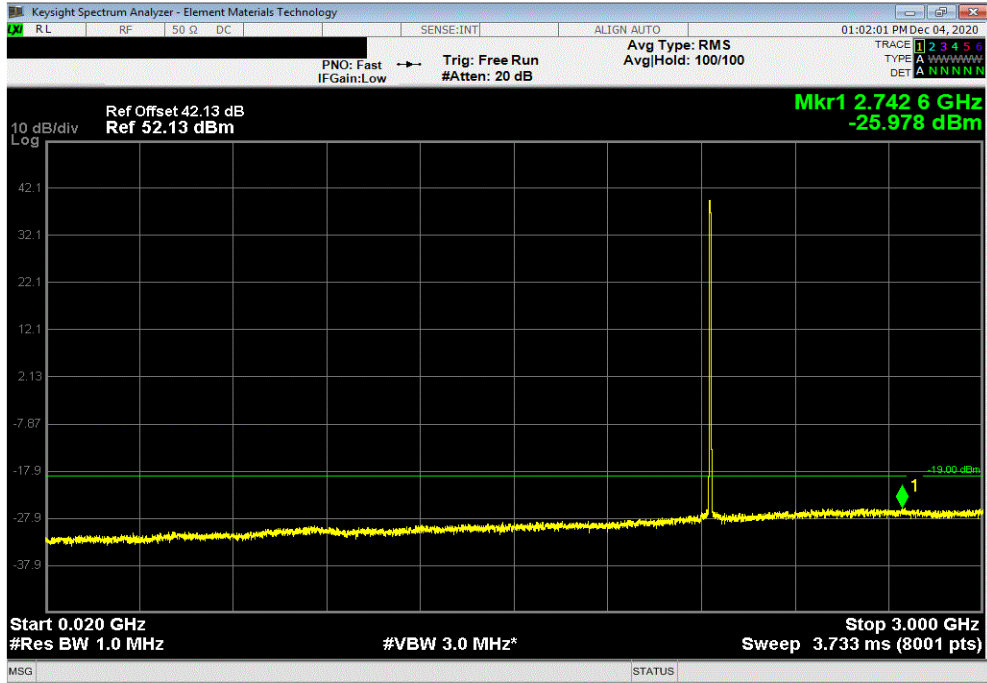


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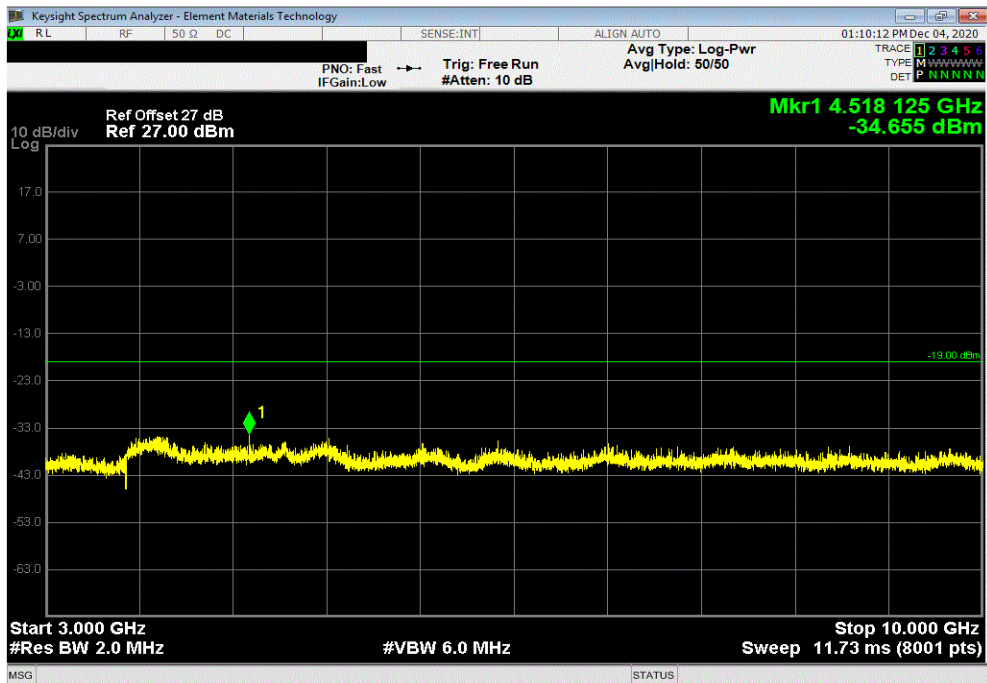


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
20 MHz - 3 GHz		-25.98	-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
3 GHz - 10 GHz		-34.66	-19	Pass	

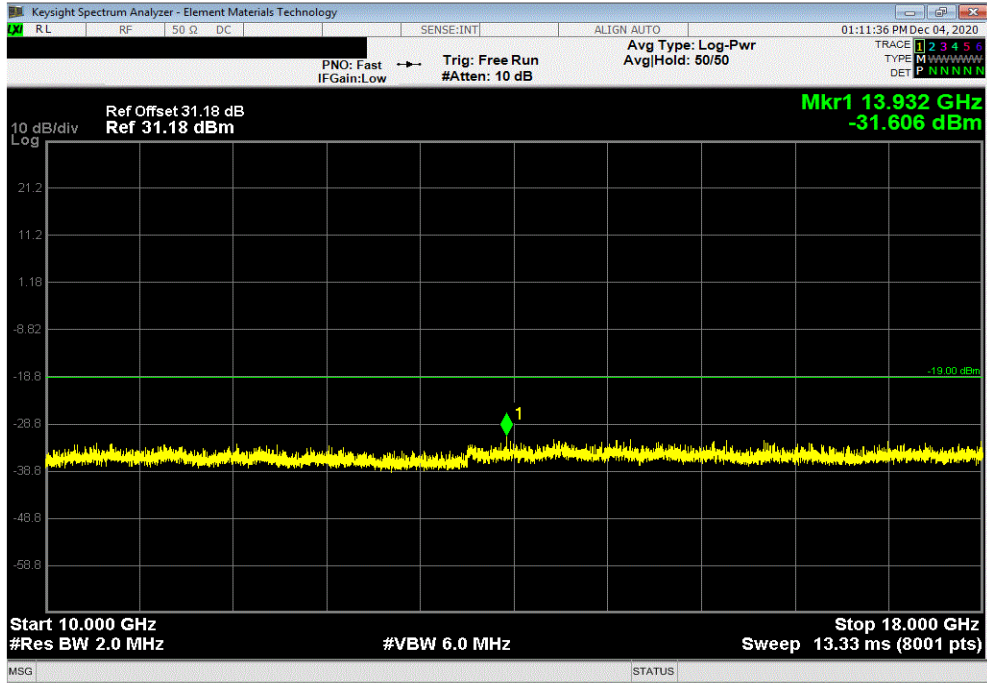


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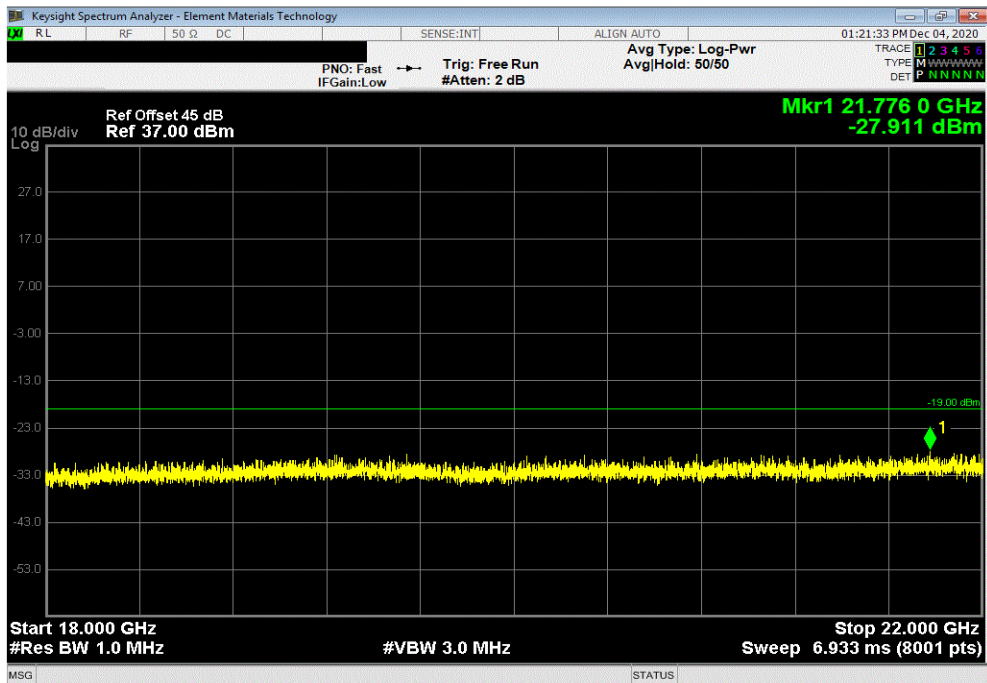


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2132.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
10 GHz - 18 GHz	-31.61	-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2132.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
18 GHz - 22 GHz	-27.91	-19	Pass	

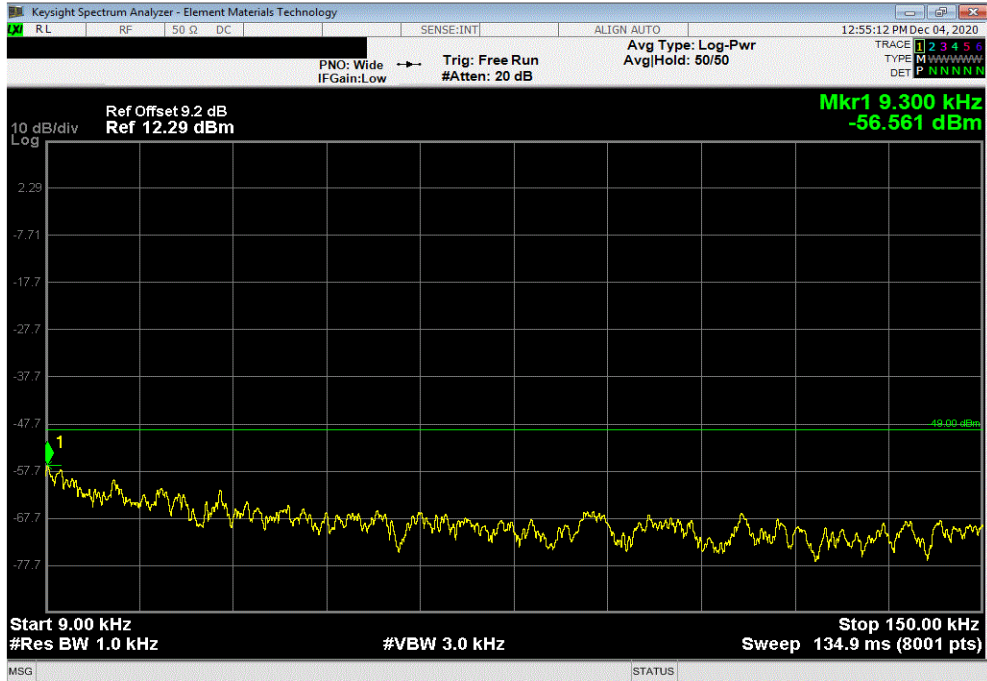


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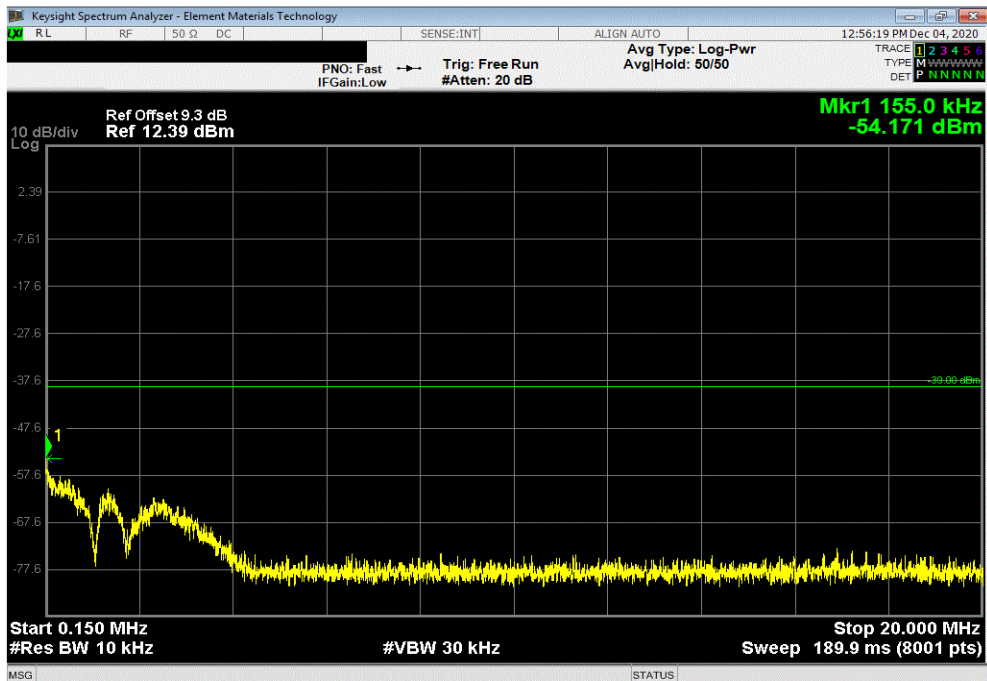


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz		-56.56	-49	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
150 kHz - 20 MHz		-54.17	-39	Pass	

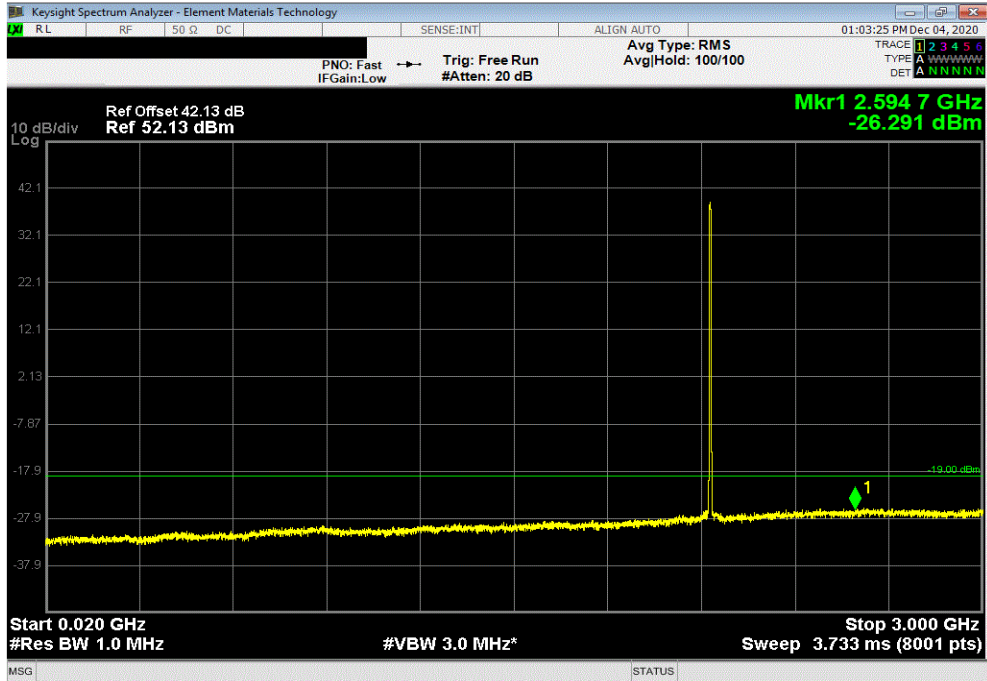


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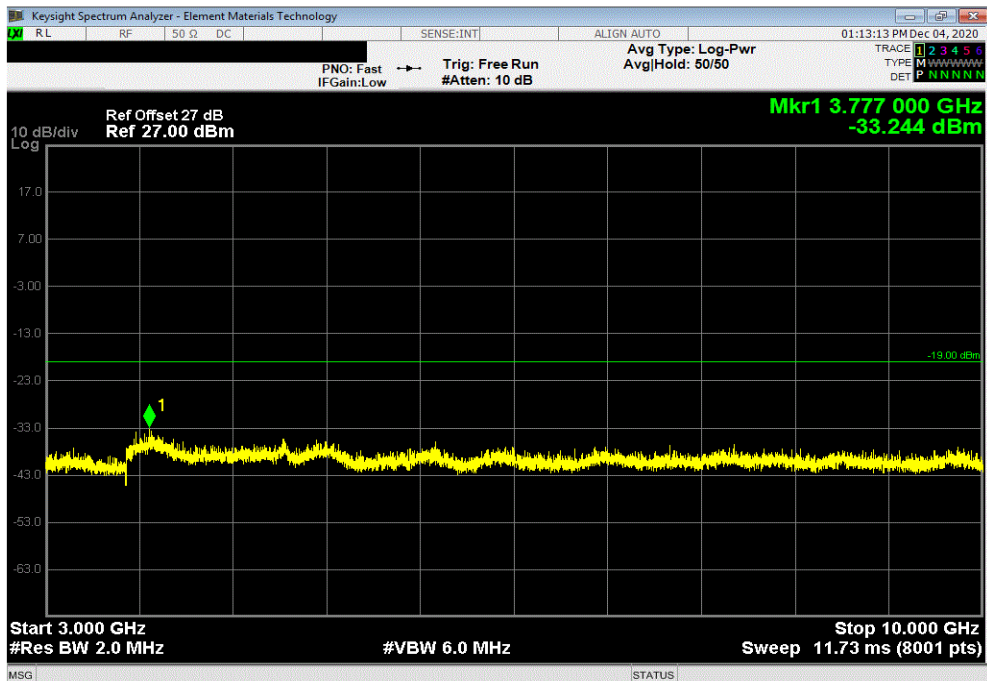


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
20 MHz - 3 GHz		-26.29	-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
3 GHz - 10 GHz		-33.24	-19	Pass	

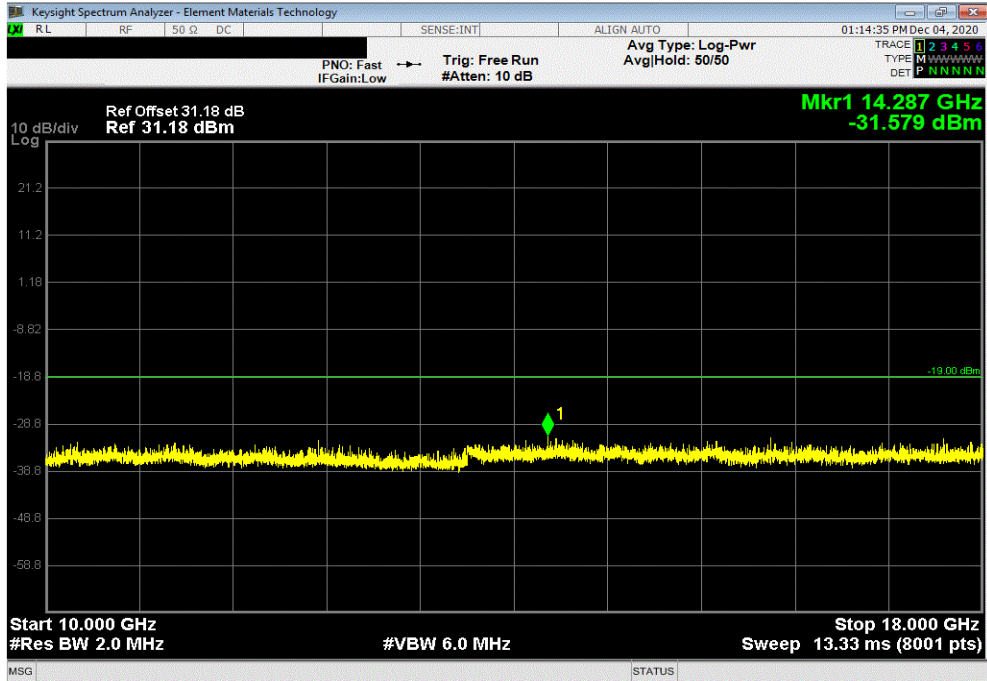


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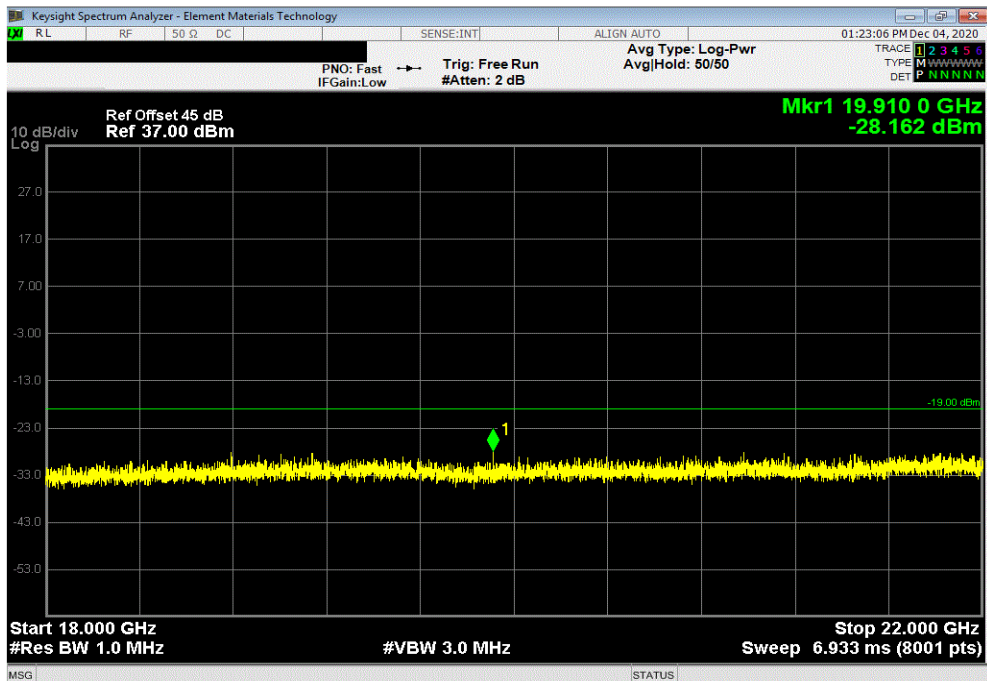


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2132.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
10 GHz - 18 GHz	-31.58	-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2132.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
18 GHz - 22 GHz	-28.16	-19	Pass	

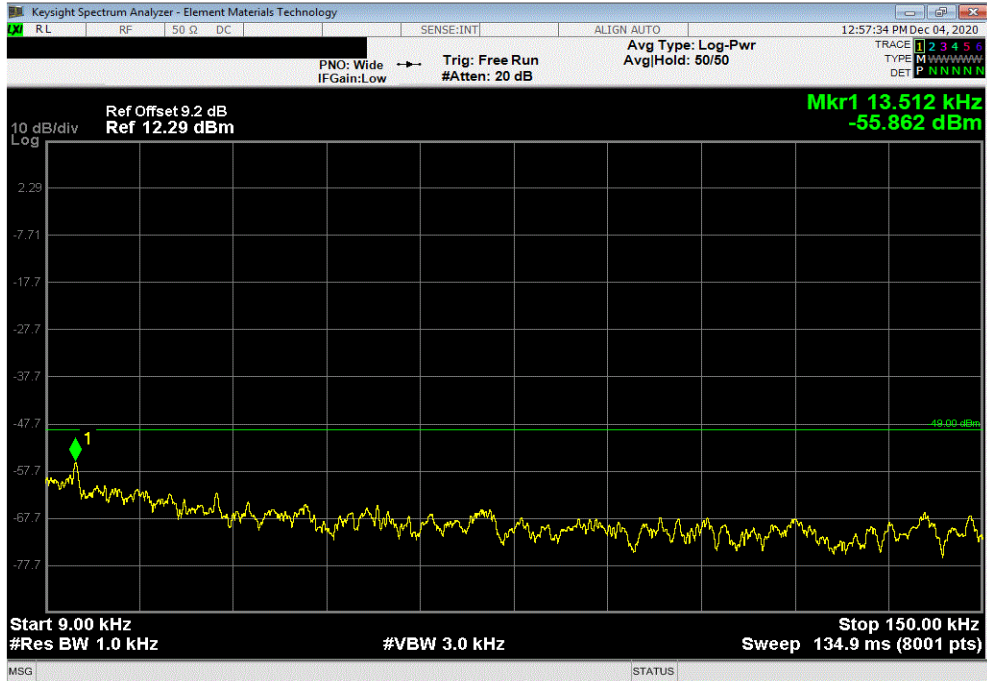


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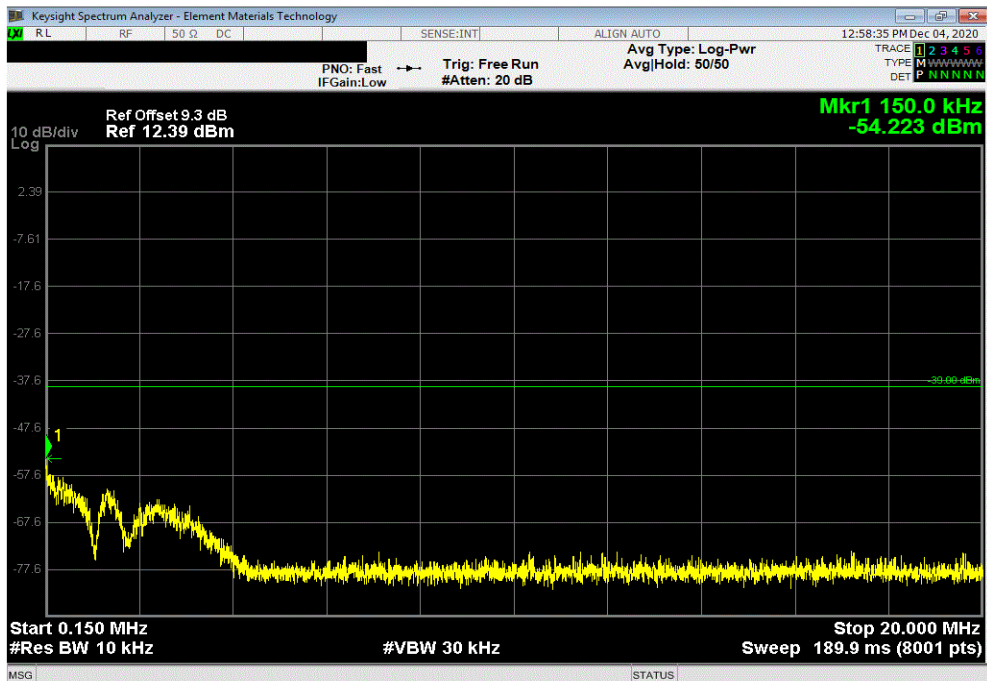


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz		-55.86	-49	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
150 kHz - 20 MHz		-54.22	-39	Pass	

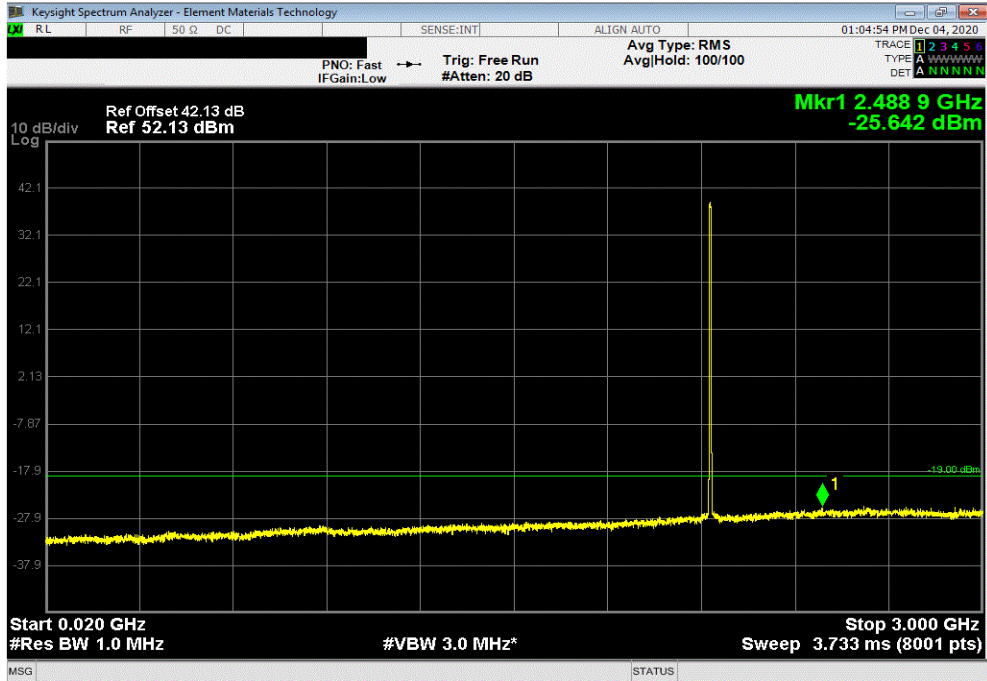


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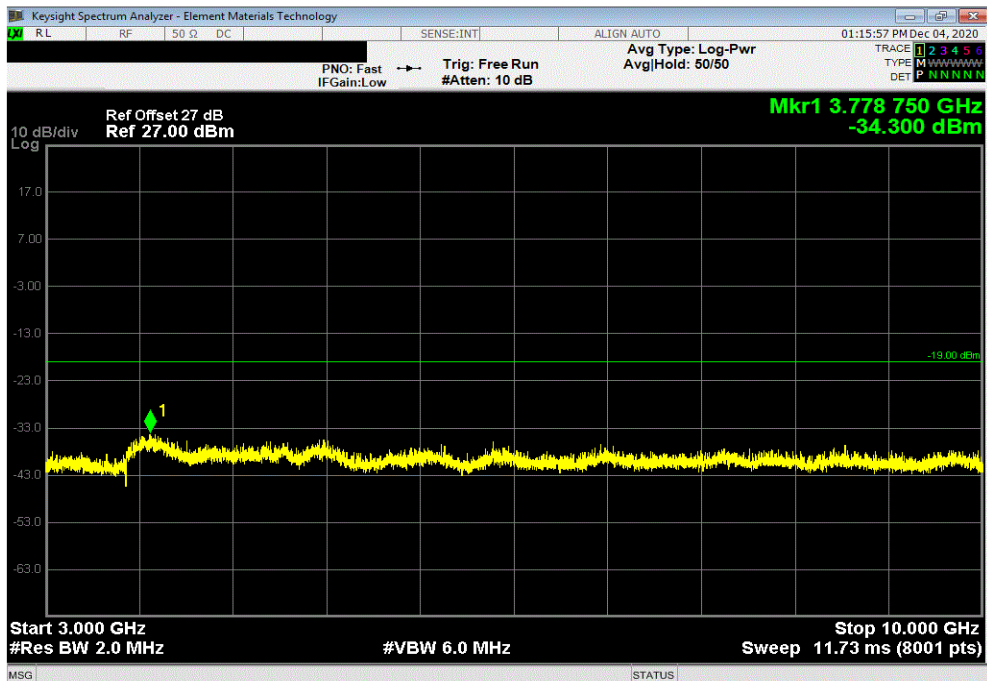


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
20 MHz - 3 GHz		-25.64	-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
3 GHz - 10 GHz		-34.3	-19	Pass	



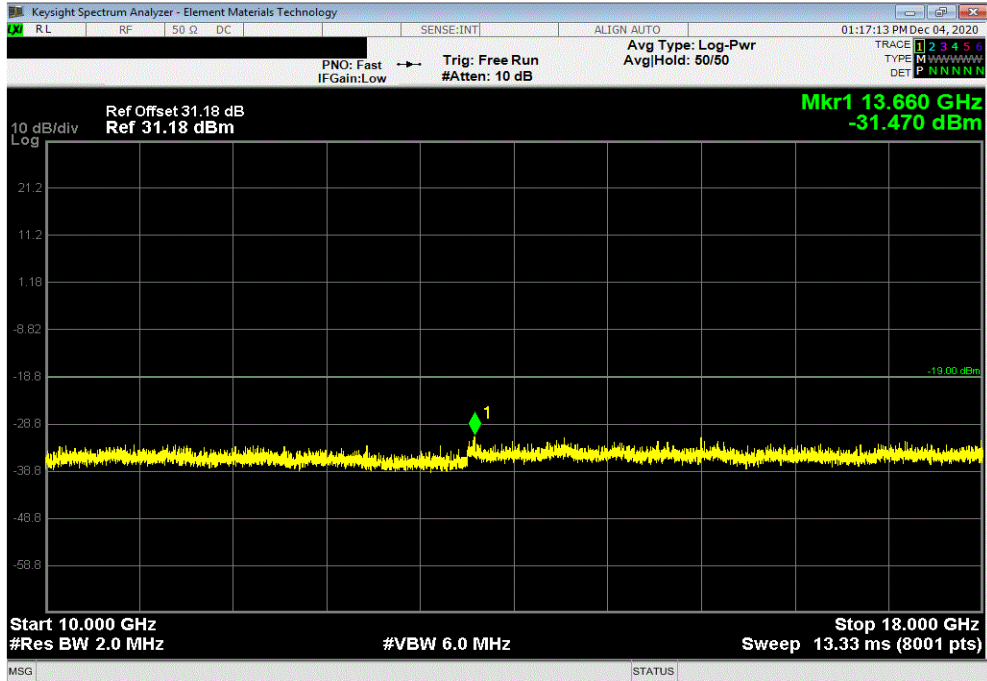
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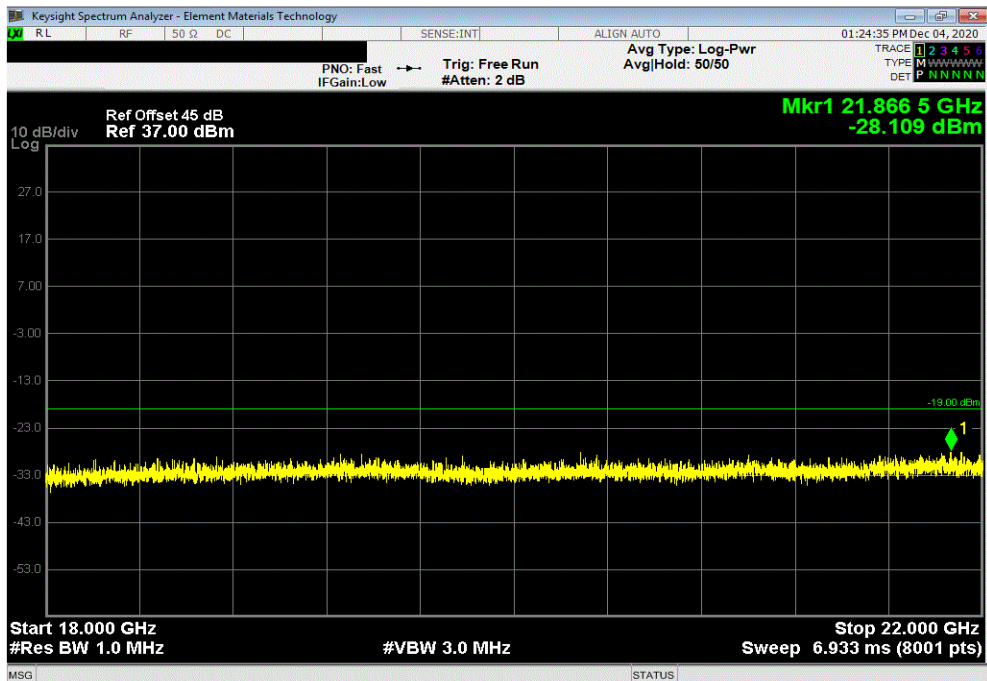
30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
10 GHz - 18 GHz	-31.47	-19	Pass



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz

Frequency Range	Value (dBm)	Limit (dBm)	Result
18 GHz - 22 GHz	-28.11	-19	Pass

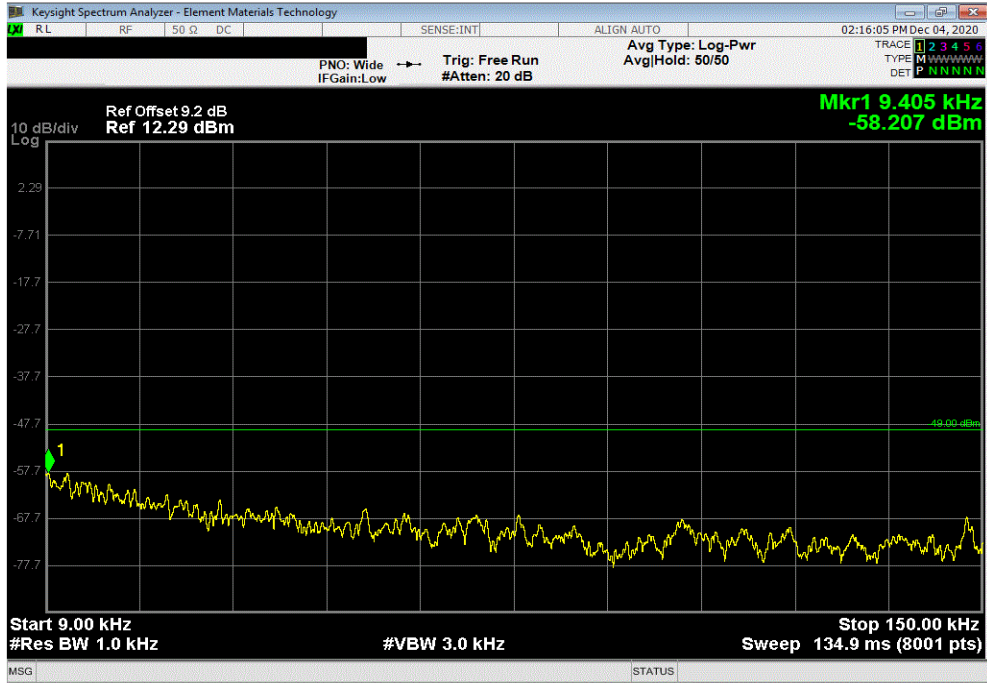


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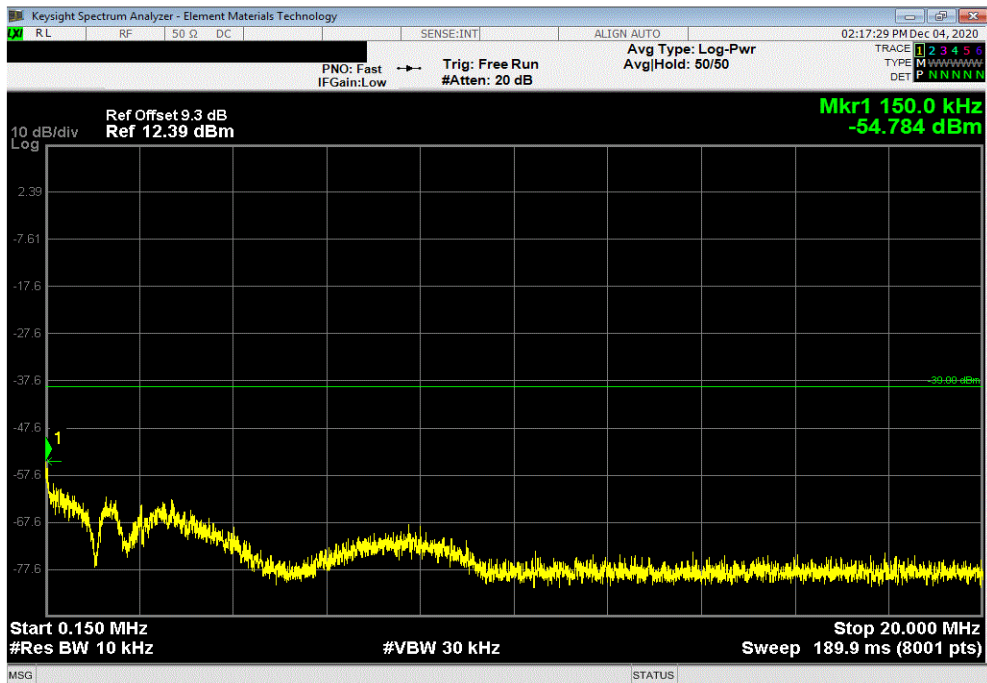


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz		-58.21	-49	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
150 kHz - 20 MHz		-54.78	-39	Pass	

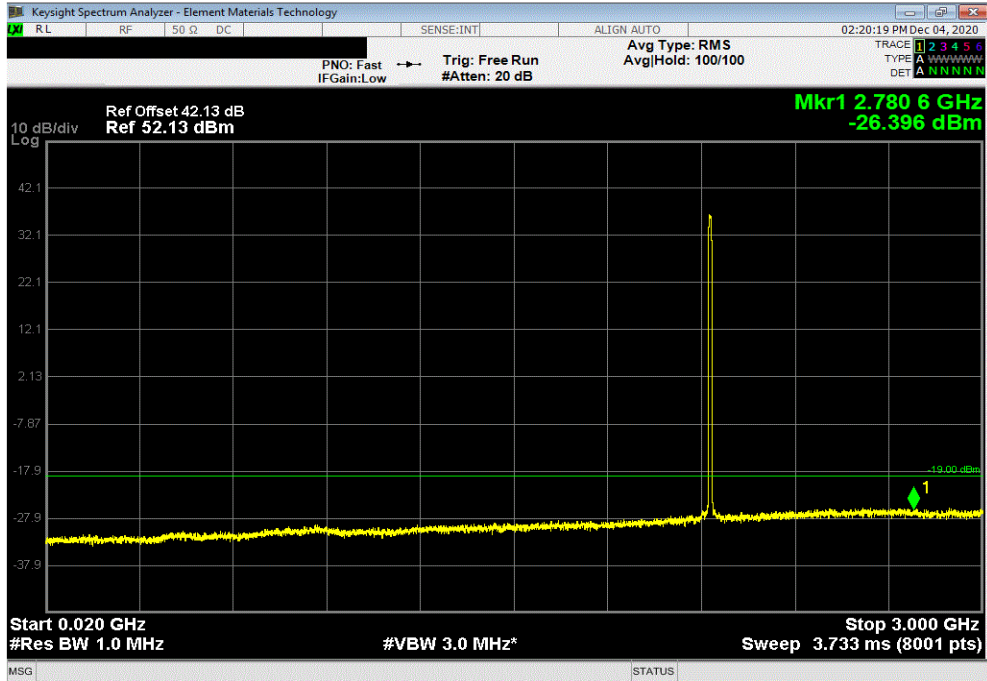


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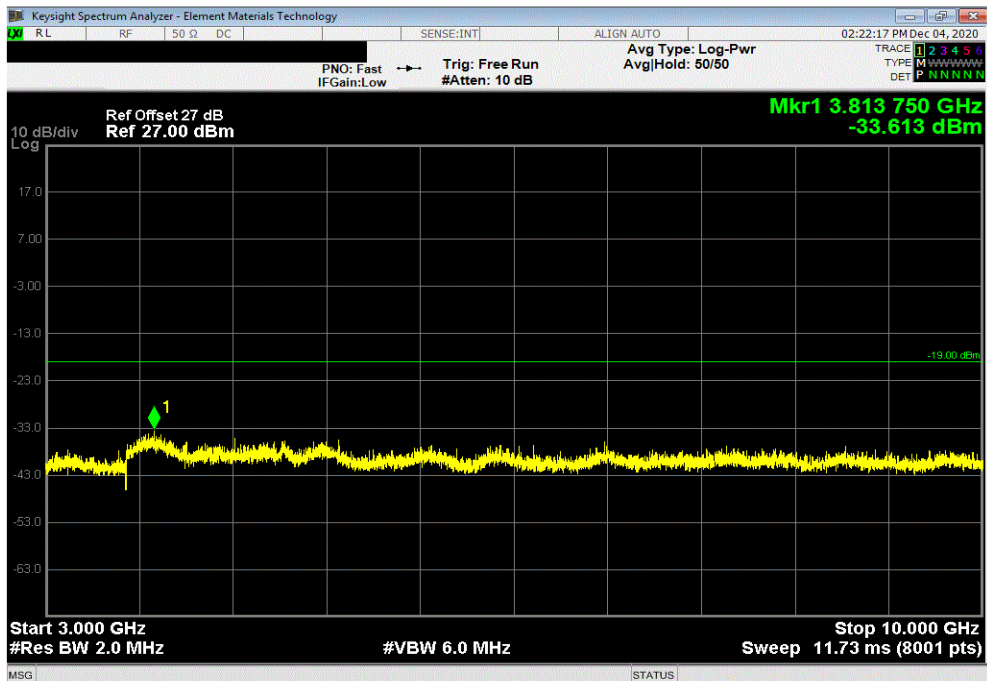


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
20 MHz - 3 GHz		-26.4	-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
3 GHz - 10 GHz		-33.61	-19	Pass	

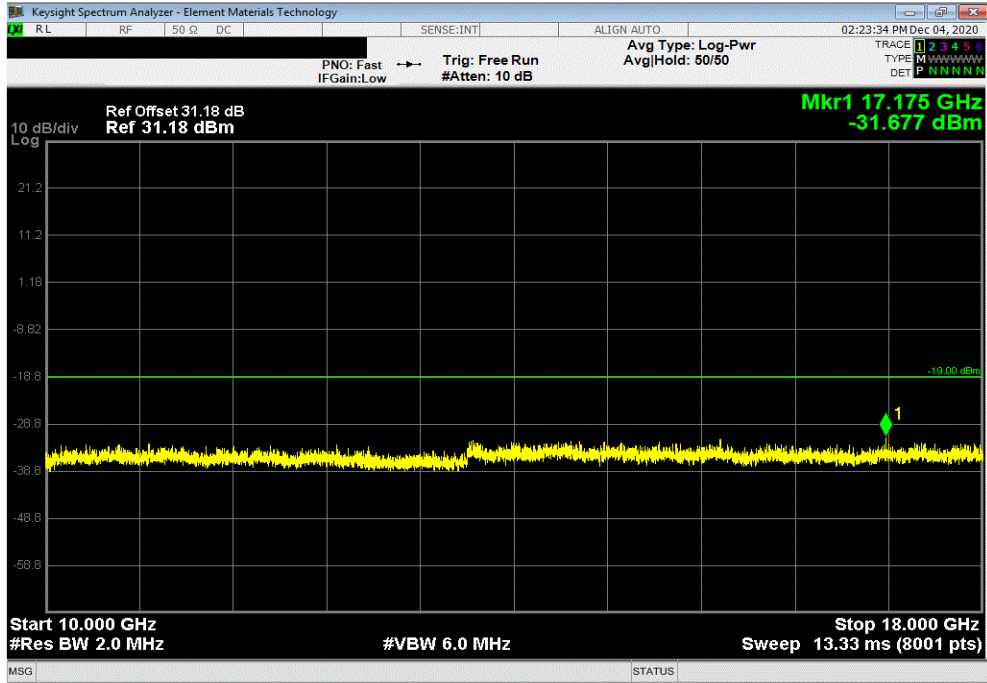


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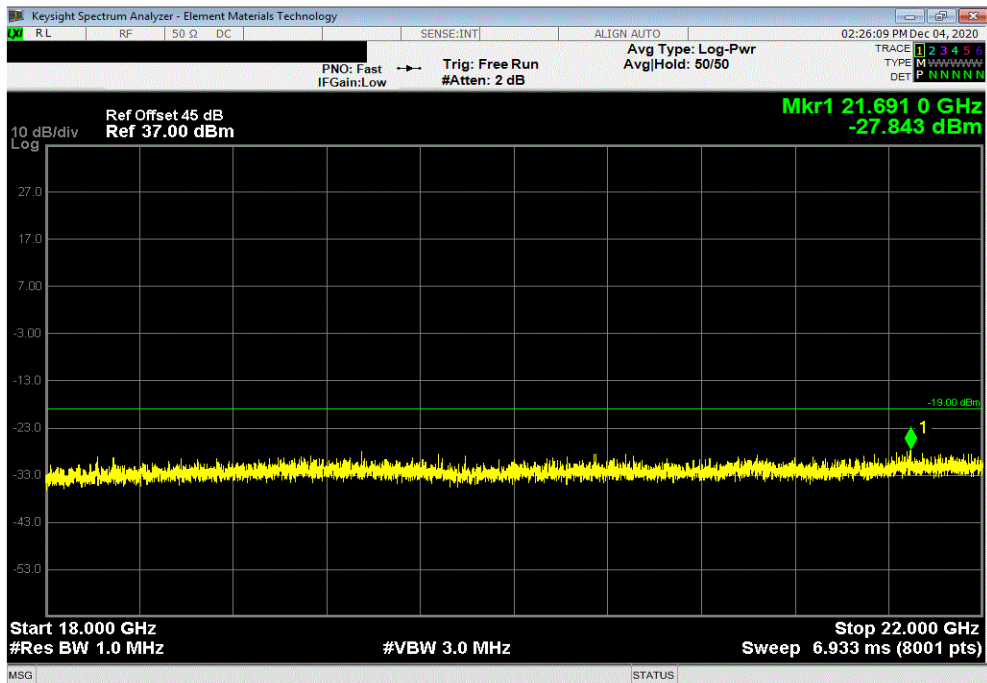


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
10 GHz - 18 GHz	-31.68	-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
18 GHz - 22 GHz	-27.84	-19	Pass	

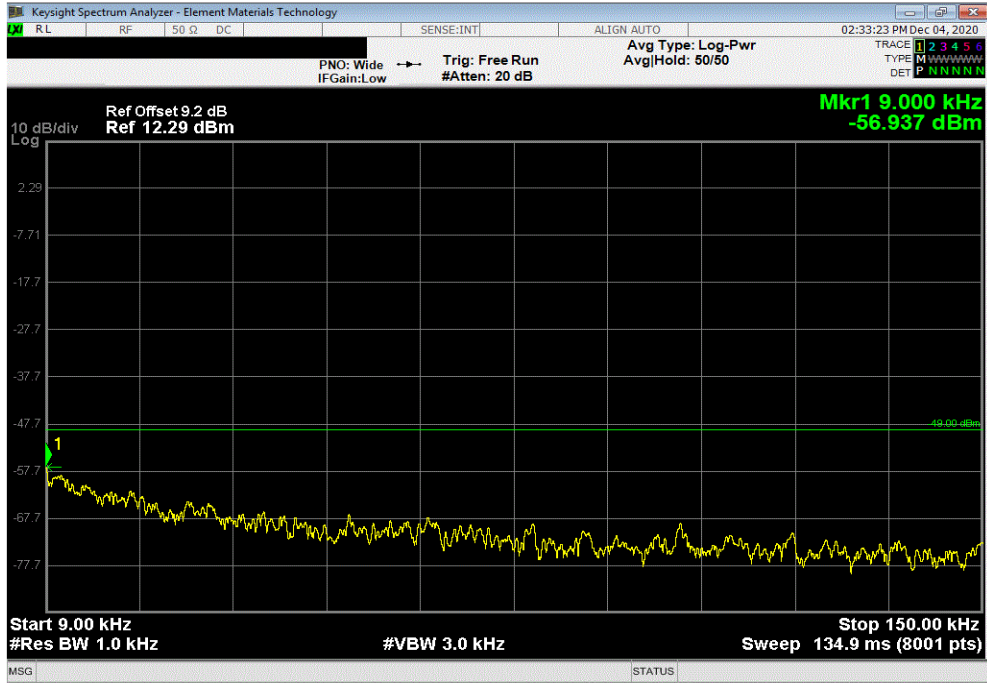


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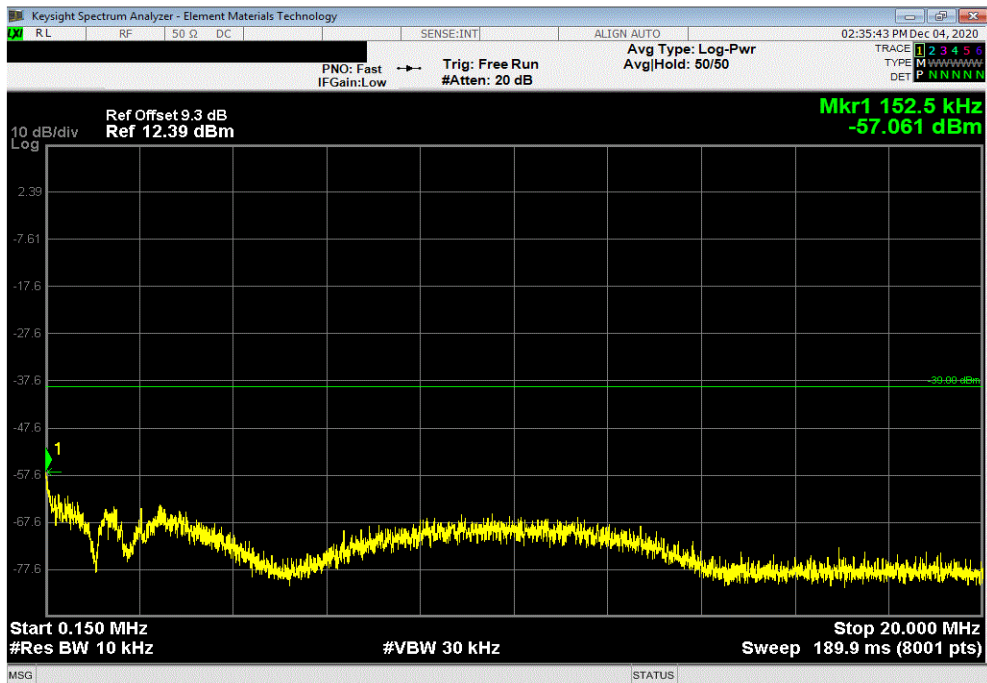


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30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz		-56.94	-49	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
150 kHz - 20 MHz		-57.06	-39	Pass	

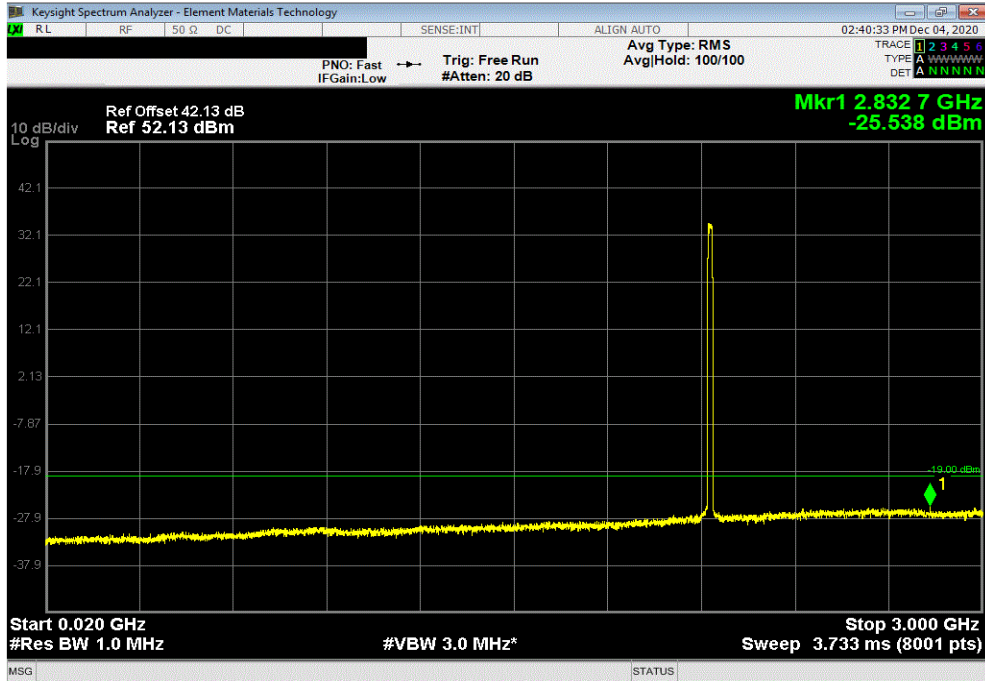


SPURIOUS CONDUCTED EMISSIONS - 4 PORT MODE

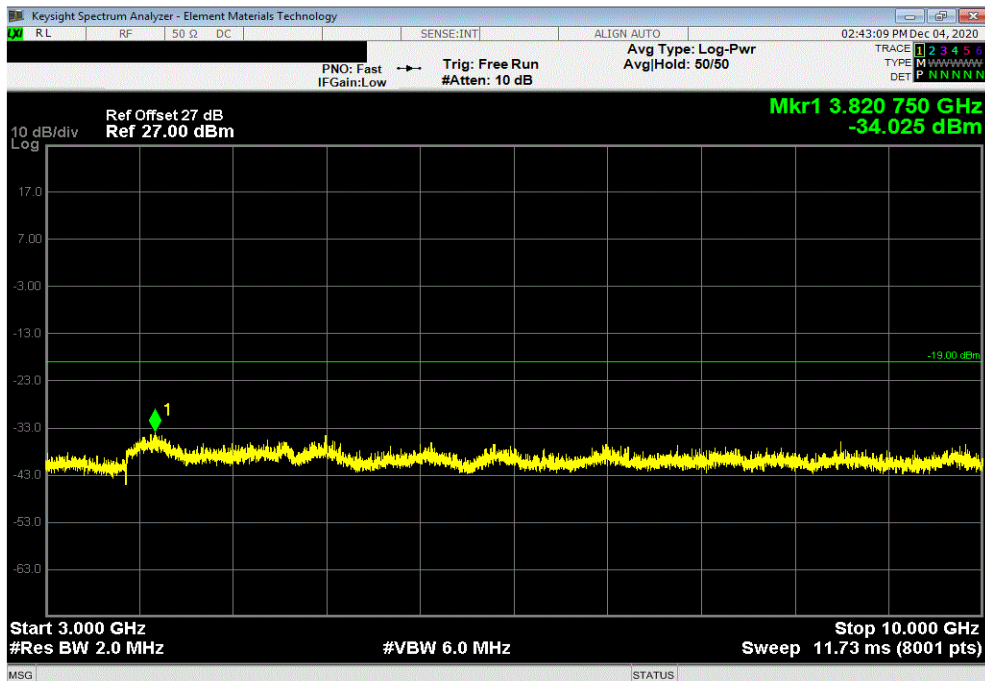


TMTX 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
20 MHz - 3 GHz		-25.54	-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
3 GHz - 10 GHz		-34.03	-19	Pass	

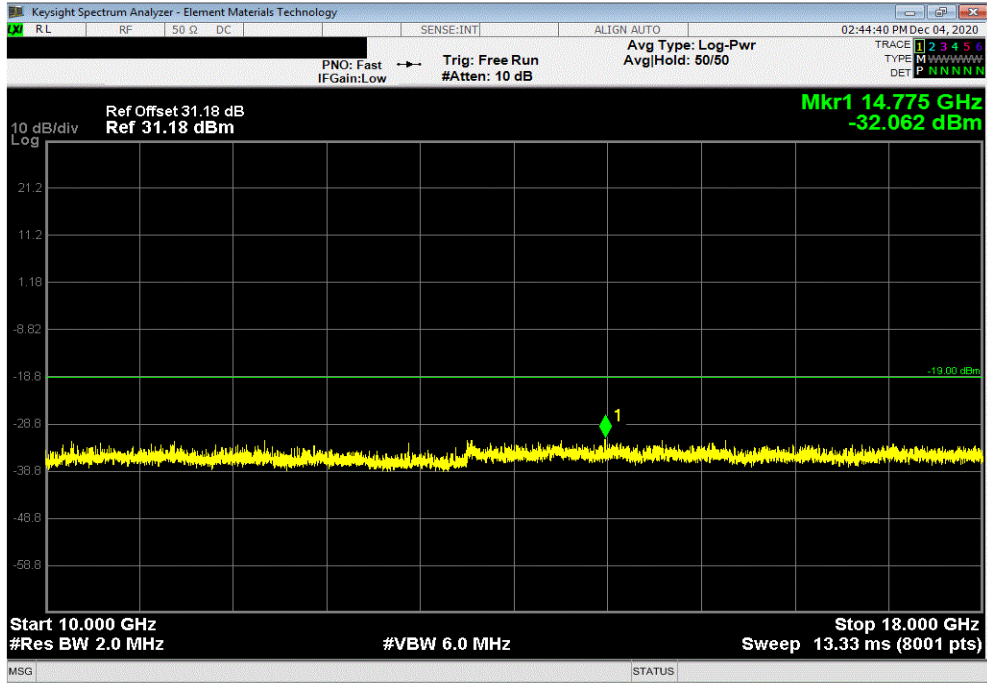


SPURIOUS CONDUCTED EMISSIONS - 4 PORT MODE

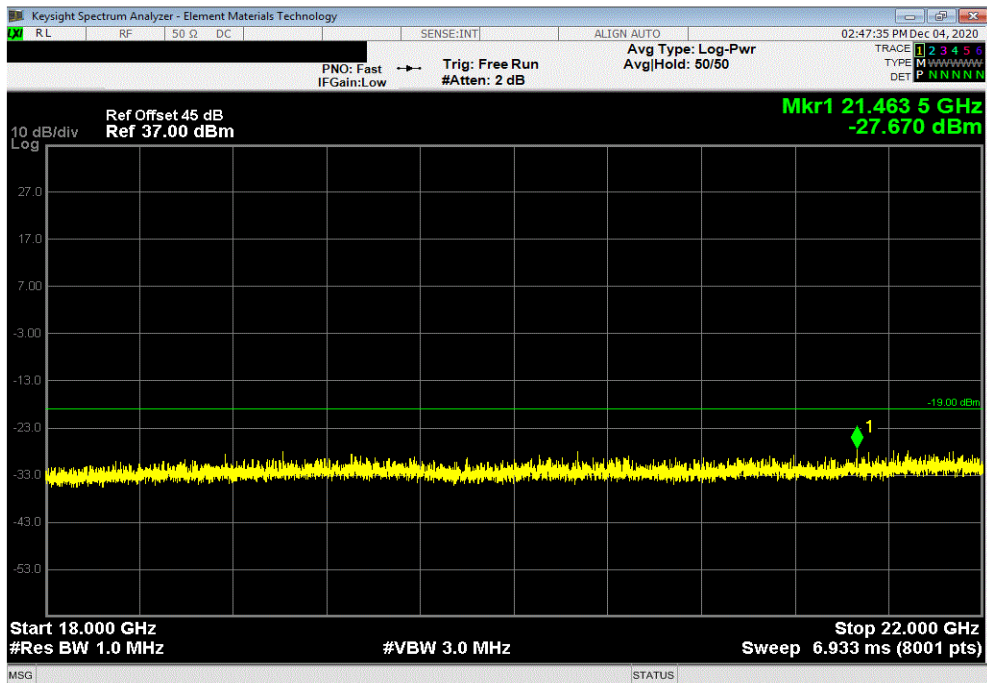


TMTX 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
10 GHz - 18 GHz	-32.06	-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
18 GHz - 22 GHz	-27.67	-19	Pass	

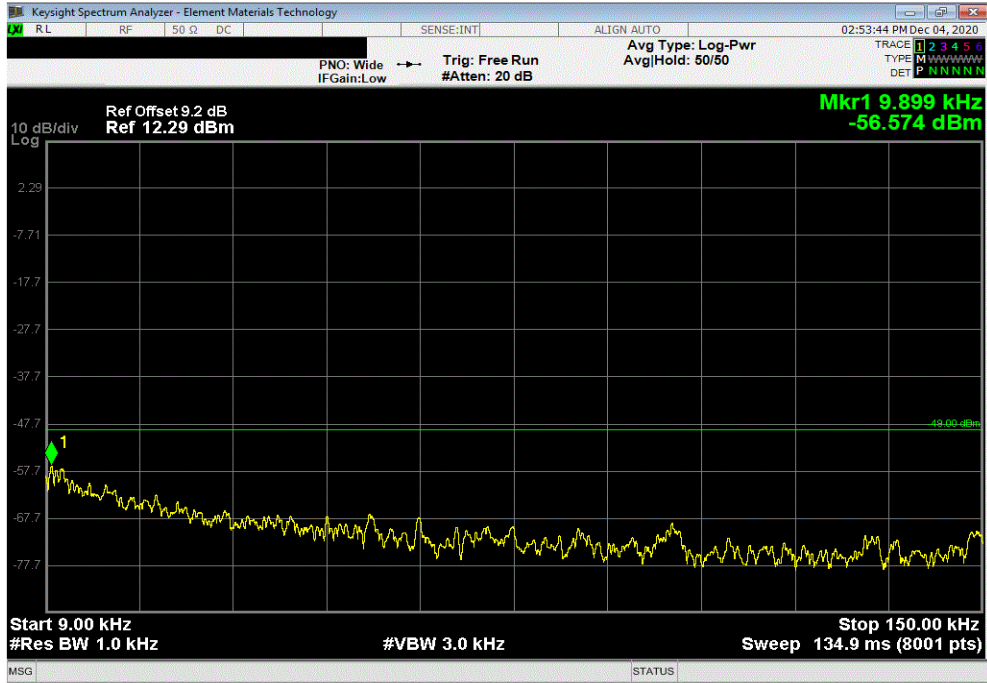


SPURIOUS CONDUCTED EMISSIONS - 4 PORT MODE

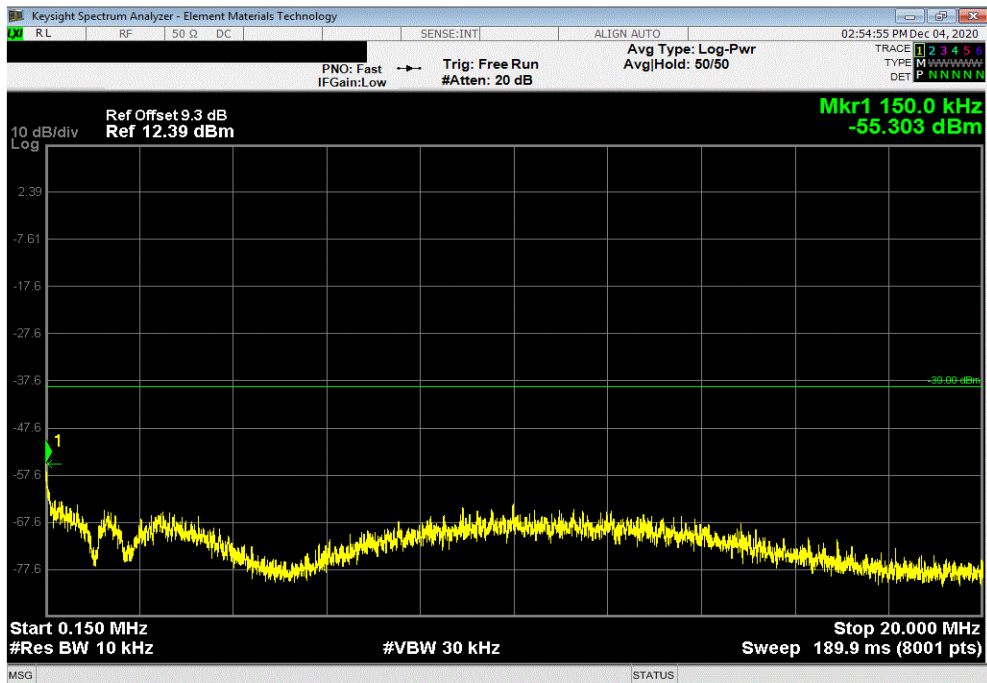


TMTX 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
9 kHz - 150 kHz		-56.57	-49	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
150 kHz - 20 MHz		-55.3	-39	Pass	

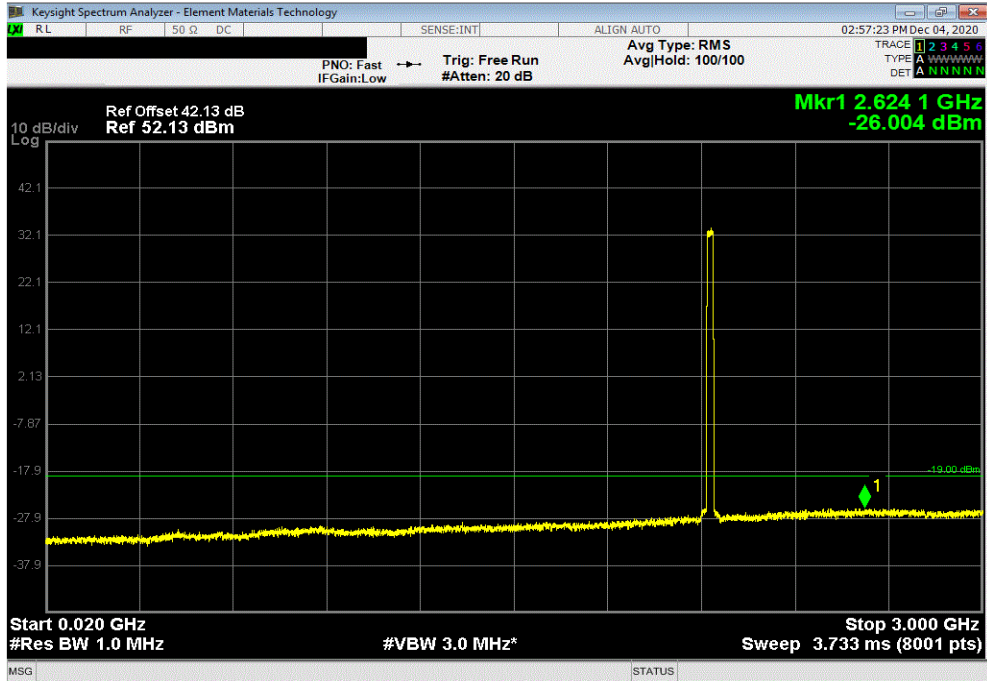


SPURIOUS CONDUCTED EMISSIONS - 4 PORT MODE

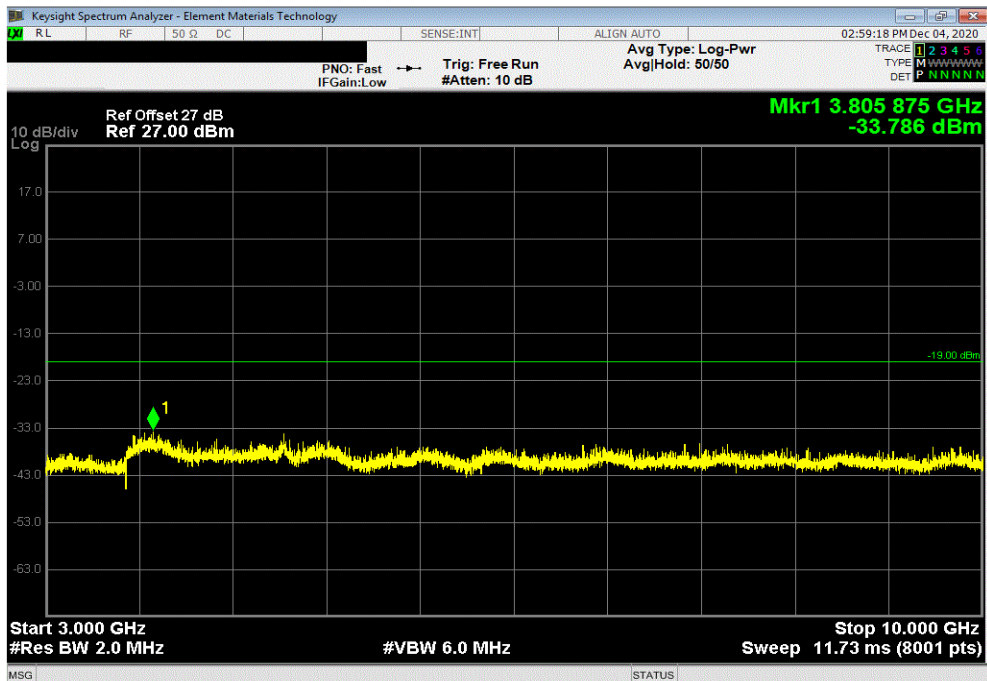


TMTX 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
20 MHz - 3 GHz		-26	-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz					
Frequency Range		Value (dBm)	Limit (dBm)	Result	
3 GHz - 10 GHz		-33.79	-19	Pass	

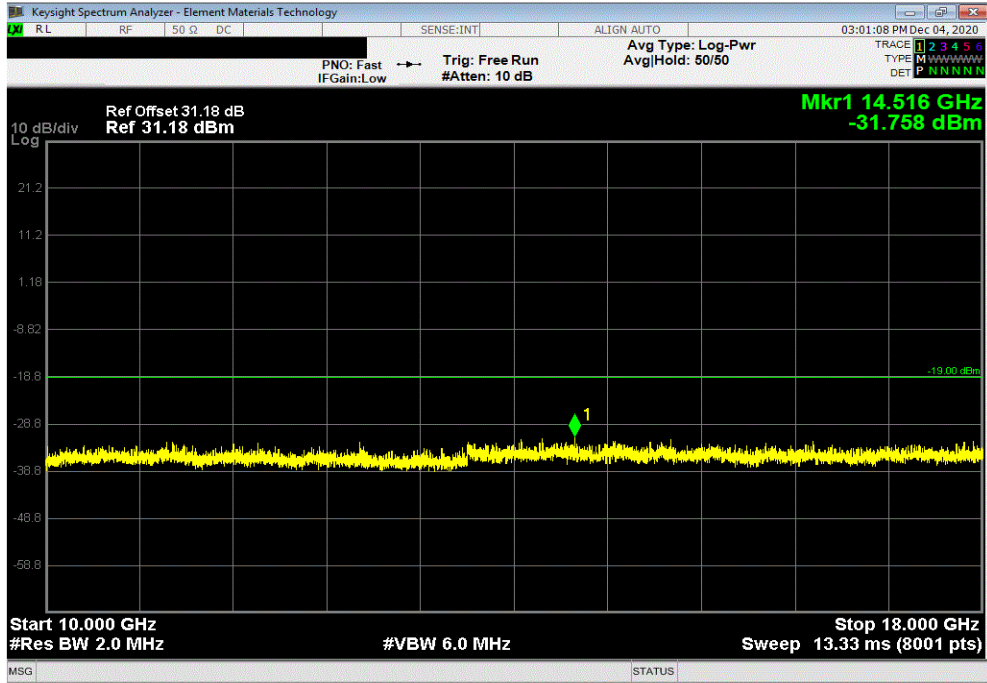


SPURIOUS CONDUCTED EMISSIONS - 4 PORT MODE



TMTX 2020.10.20.0 BETA XMI 2020.03.25.0

30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
10 GHz - 18 GHz	-31.76	-19	Pass	



30 Watt Port 1, Band 1, 2110 MHz - 2155 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2132.5 MHz				
Frequency Range	Value (dBm)	Limit (dBm)	Result	
18 GHz - 22 GHz	-27.76	-19	Pass	

