BAND EDGE COMPLIANCE - INNER CHANNELS

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
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	27-Feb-20	27-Feb-21
Generator - Signal	Keysight	N5171B-506	TEW	2-May-18	2-May-21

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 24.238(a) and RSS 133 6.5.1 (i). the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Per FCC 24.238(b) and RSS 133 6.5.1 (i). emissions seen up to 1 MHz outside of authorized operating frequency range band edges shall be measured with a RBW of 1% of the measured emission bandwidth. Any emission seen to be > 1 MHz further outside the band edges shall be measured with a RBW of 1 MHz. However, a narrower RBW of at least 1% of the emission bandwidth is still allowed provided that the measured power is integrated over the full reference bandwidth of 1 MHz.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (FHFB) as the original certification test. The FHFB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the original certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

BAND EDGE COMPLIANCE - INNER CHANNELS

element

TbtTx 2020.09.08.0 BETA XMit 2020.03.25.0

EUT:	FHFB (FCC C2PC)			**Work Order:**	NOKI0021
Serial Number:	L9144200604			**Date:**	10-Sep-20
Customer:	Nokia of America Corporation			**Temperature:**	22.8 °C
Attendees:	Mitchell Hill, John Rattanavong			**Humidity:**	51.1% RH
Project:	None			**Barometric Pres.:**	1024 mbar
Tested by:	Brandon Hobbs	**Power:**	54 VDC	**Job Site:**	TX05

TEST SPECIFICATIONS	**Test Method**
FCC 24E:2020	ANSI C63.26:2015
RSS-133:2018	RSS-133:2018

COMMENTS

All measurement path losses were accounted for in the reference level offest including any attenuators, filters and DC blocks. The carrier power was set to maximum except for the 15MHz channel bandwidth. The power was reduced by 1 dB at the 15MHz channel bandwidth "High Channel" (1987.5MHz) and "Low Channel" (1937.5MHz) and the measurement marker was offset RBW/2 from the band edge frequency as allowed by C63.26 clause 5.7.2.g. The 15MHz channel bandwidth at full power was re-measured at "High Channel - 100kHz" (1987.4MHz) and "Low Channel + 100kHz" (1937.6MHz) at the band edge frequencies.

DEVIATIONS FROM TEST STANDARD

None

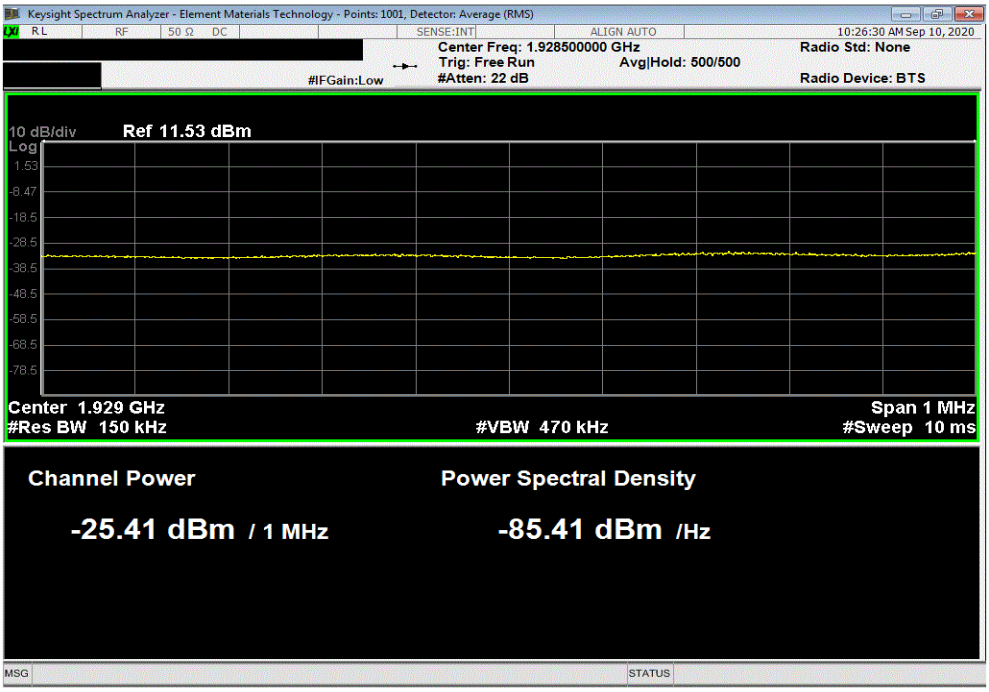
Configuration #	**2**	*Signature*

	Frequency Range	Value (dBm)	Limit (dBm)	Result
Port 1, Band n25, 1930 MHz - 1995 MHz				
15 MHz Bandwidth				
QPSK Modulation				
Low Channel +100kHz: 1937.6 MHz	1	-20.08	-19	Pass
Low Channel +100kHz: 1937.6 MHz	2	-25.41	-19	Pass
Low Channel +100kHz: 1937.6 MHz	3	-25.38	-19	Pass
High Channel -100kHz: 1987.4 MHz	1	-21.12	-19	Pass
High Channel -100kHz: 1987.4 MHz	2	-24.85	-19	Pass
High Channel -100kHz: 1987.4 MHz	3	-25.74	-19	Pass
16-QAM Modulation				
Low Channel +100kHz: 1937.6 MHz	1	-20.75	-19	Pass
Low Channel +100kHz: 1937.6 MHz	2	-24.85	-19	Pass
Low Channel +100kHz: 1937.6 MHz	3	-24.71	-19	Pass
High Channel -100kHz: 1987.4 MHz	1	-21.43	-19	Pass
High Channel -100kHz: 1987.4 MHz	2	-24.66	-19	Pass
High Channel -100kHz: 1987.4 MHz	3	-25.45	-19	Pass
64-QAM Modulation				
Low Channel +100kHz: 1937.6 MHz	1	-22.12	-19	Pass
Low Channel +100kHz: 1937.6 MHz	2	-25.61	-19	Pass
Low Channel +100kHz: 1937.6 MHz	3	-25.16	-19	Pass
High Channel -100kHz: 1987.4 MHz	1	-21.81	-19	Pass
High Channel -100kHz: 1987.4 MHz	2	-24.74	-19	Pass
High Channel -100kHz: 1987.4 MHz	3	-25.50	-19	Pass
256-QAM Modulation				
Low Channel +100kHz: 1937.6 MHz	1	-22.34	-19	Pass
Low Channel +100kHz: 1937.6 MHz	2	-25.44	-19	Pass
Low Channel +100kHz: 1937.6 MHz	3	-25.31	-19	Pass
High Channel -100kHz: 1987.4 MHz	1	-21.66	-19	Pass
High Channel -100kHz: 1987.4 MHz	2	-24.91	-19	Pass
High Channel -100kHz: 1987.4 MHz	3	-25.60	-19	Pass

BAND EDGE COMPLIANCE - INNER CHANNELS

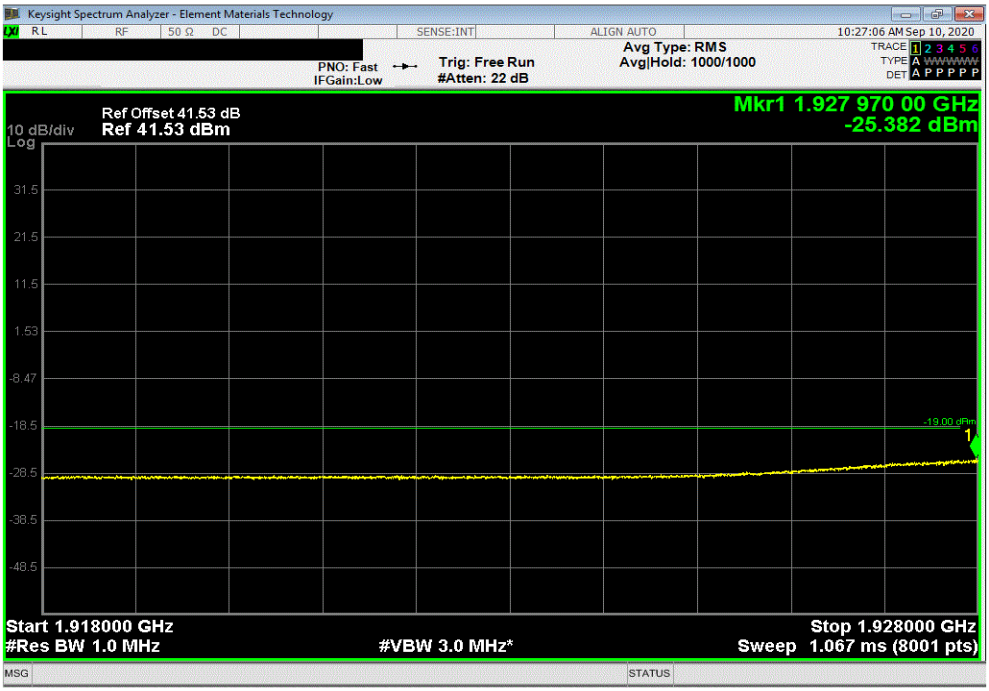
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, QPSK Modulation, Low Channel +100kHz: 1937.6 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-20.08	-19	Pass

Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, QPSK Modulation, Low Channel +100kHz: 1937.6 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-25.41	-19	Pass



BAND EDGE COMPLIANCE - INNER CHANNELS

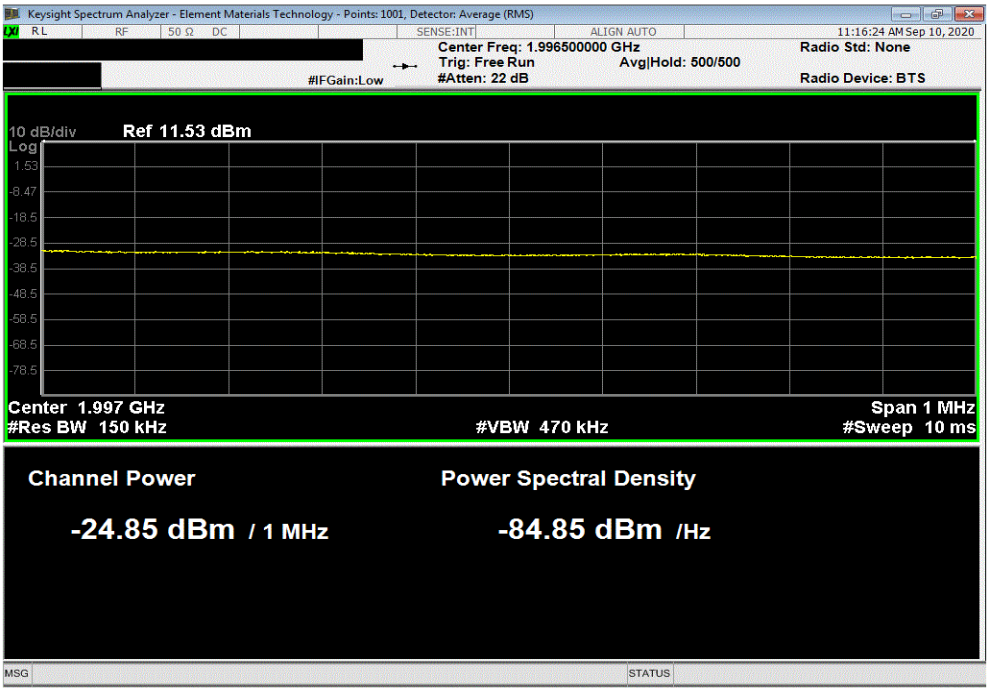
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, QPSK Modulation, Low Channel +100kHz: 1937.6 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-25.38	-19	Pass



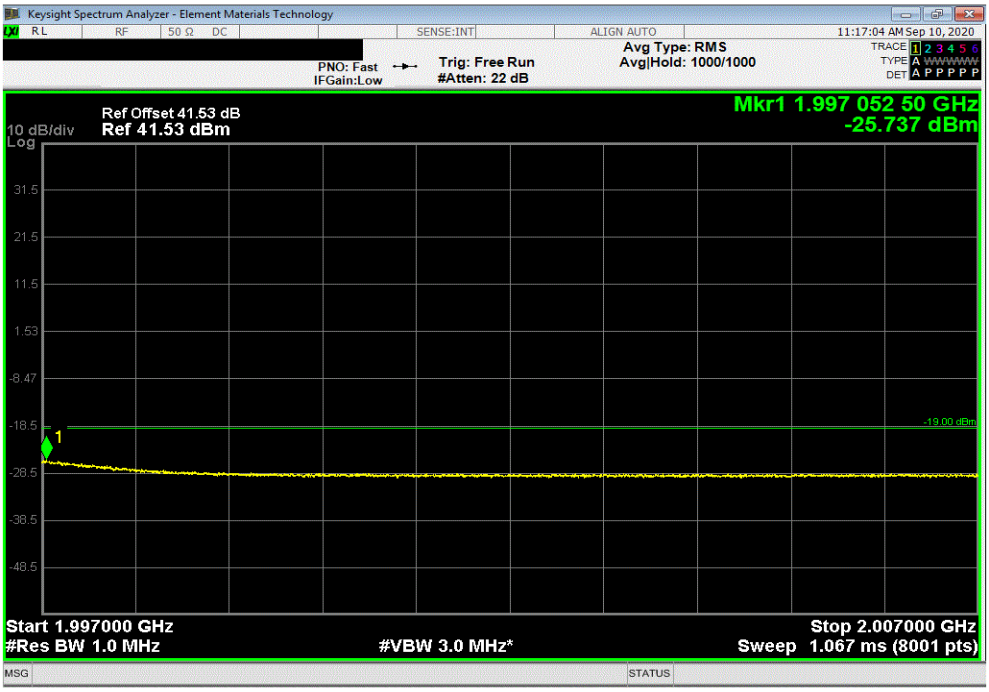
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, QPSK Modulation, High Channel -100kHz: 1987.4 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-21.12	-19	Pass

BAND EDGE COMPLIANCE - INNER CHANNELS

Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, QPSK Modulation, High Channel -100kHz: 1987.4 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.85	-19	Pass

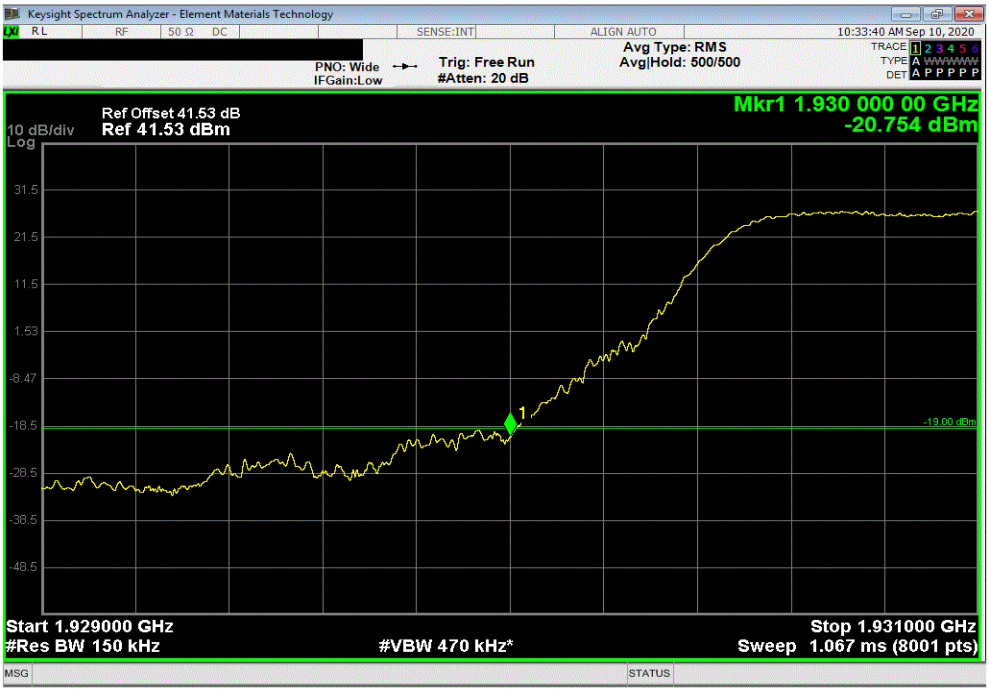


Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, QPSK Modulation, High Channel -100kHz: 1987.4 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-25.74	-19	Pass

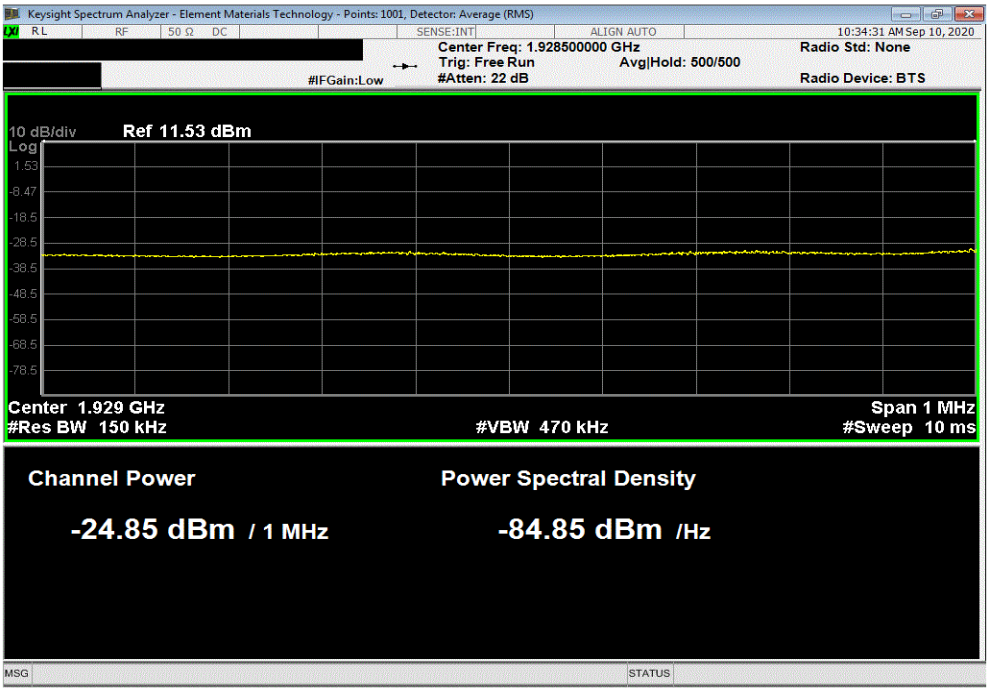


BAND EDGE COMPLIANCE - INNER CHANNELS

Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 16-QAM Modulation , Low Channel +100kHz: 1937.6 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-20.75	-19	Pass

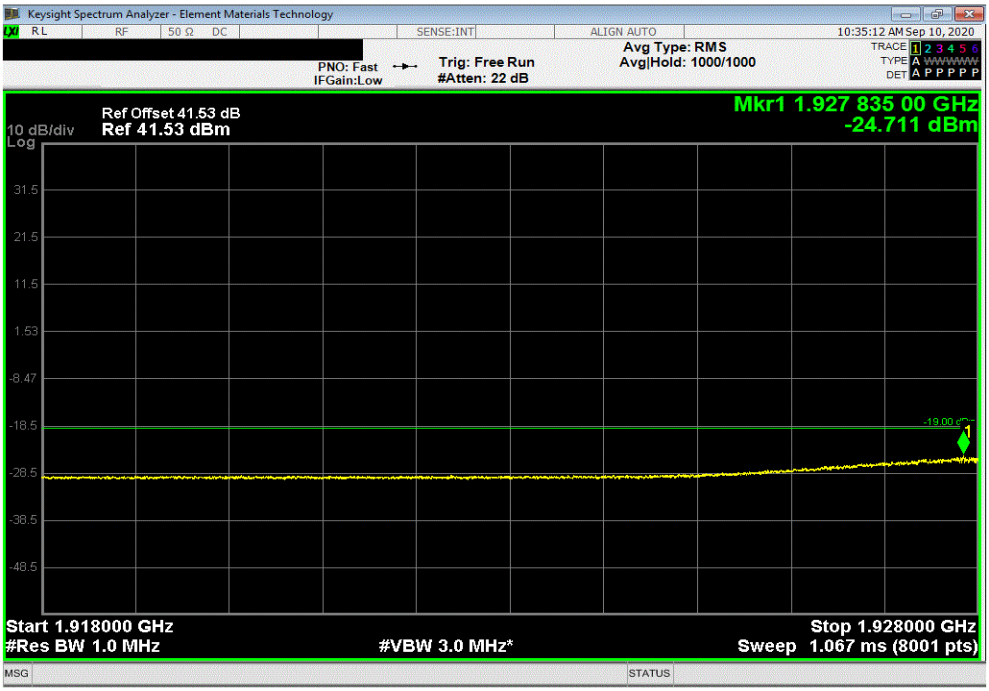


Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 16-QAM Modulation , Low Channel +100kHz: 1937.6 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.85	-19	Pass



BAND EDGE COMPLIANCE - INNER CHANNELS

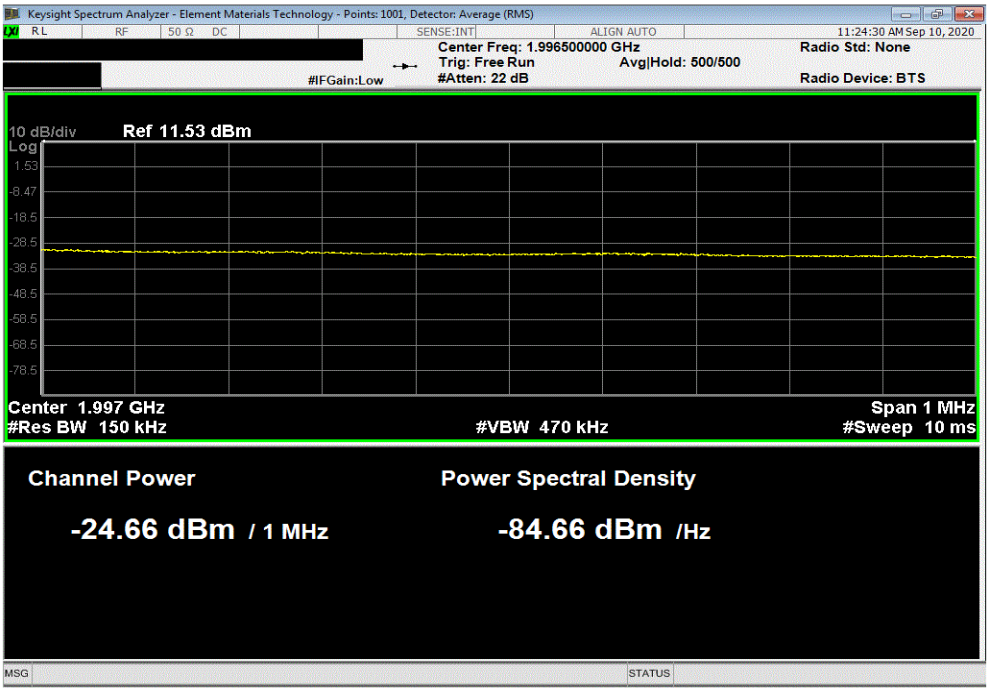
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 16-QAM Modulation , Low Channel +100kHz: 1937.6 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-24.71	-19	Pass



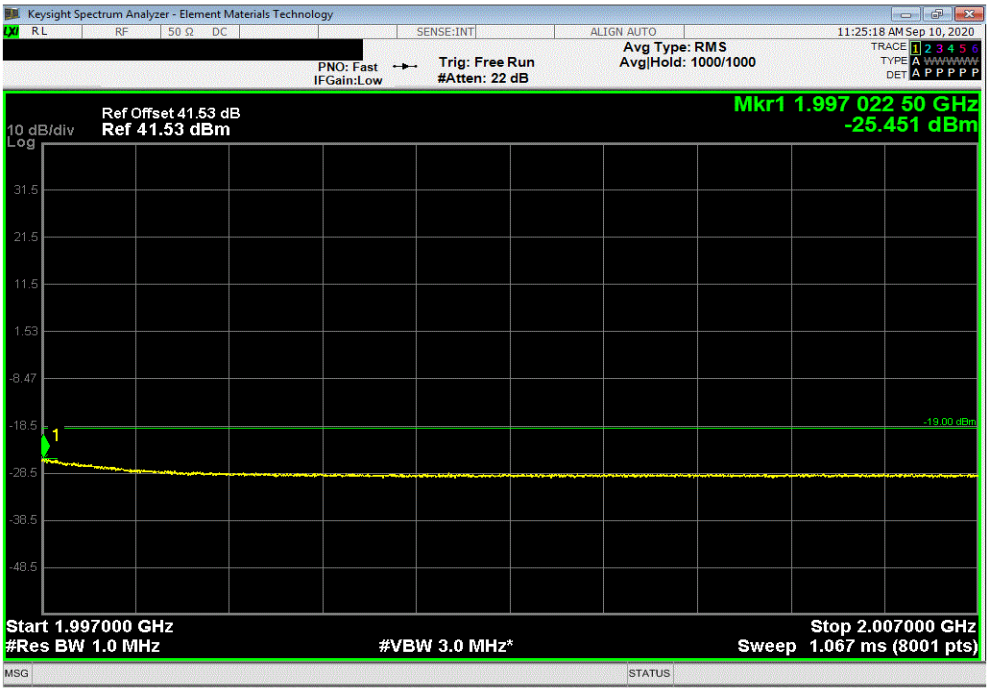
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 16-QAM Modulation , High Channel -100kHz: 1987.4 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-21.43	-19	Pass

BAND EDGE COMPLIANCE - INNER CHANNELS

Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 16-QAM Modulation , High Channel -100kHz: 1987.4 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.66	-19	Pass



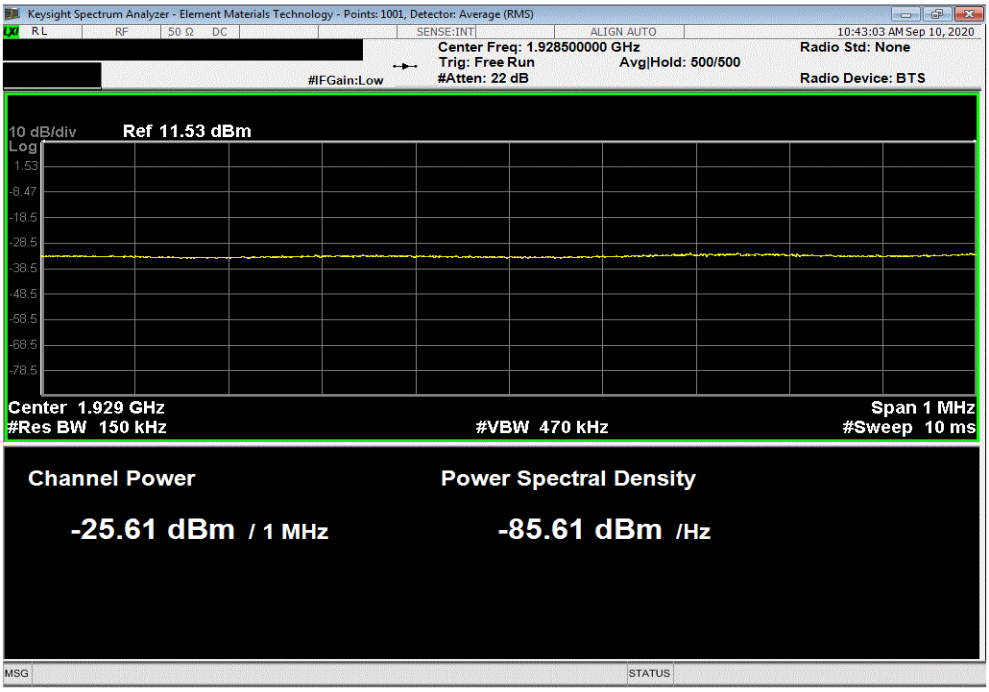
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 16-QAM Modulation , High Channel -100kHz: 1987.4 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-25.45	-19	Pass



BAND EDGE COMPLIANCE - INNER CHANNELS

Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 64-QAM Modulation, Low Channel +100kHz: 1937.6 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-22.12	-19	Pass

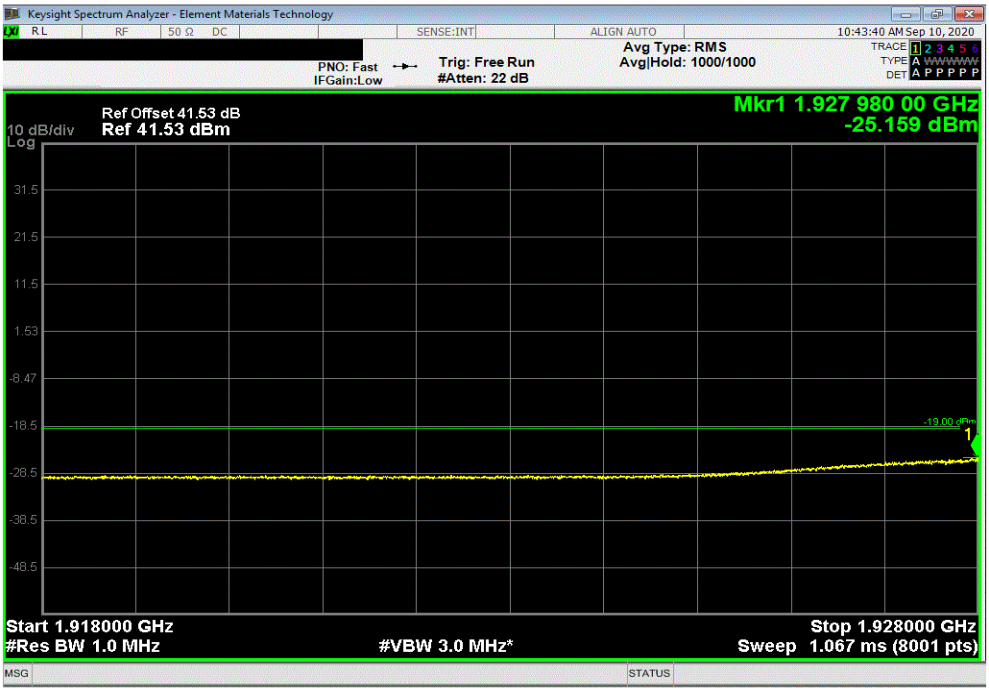
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 64-QAM Modulation, Low Channel +100kHz: 1937.6 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-25.61	-19	Pass



BAND EDGE COMPLIANCE - INNER CHANNELS

TbtTx 2020.09.08.0 BETA XMit 2020.03.25.0

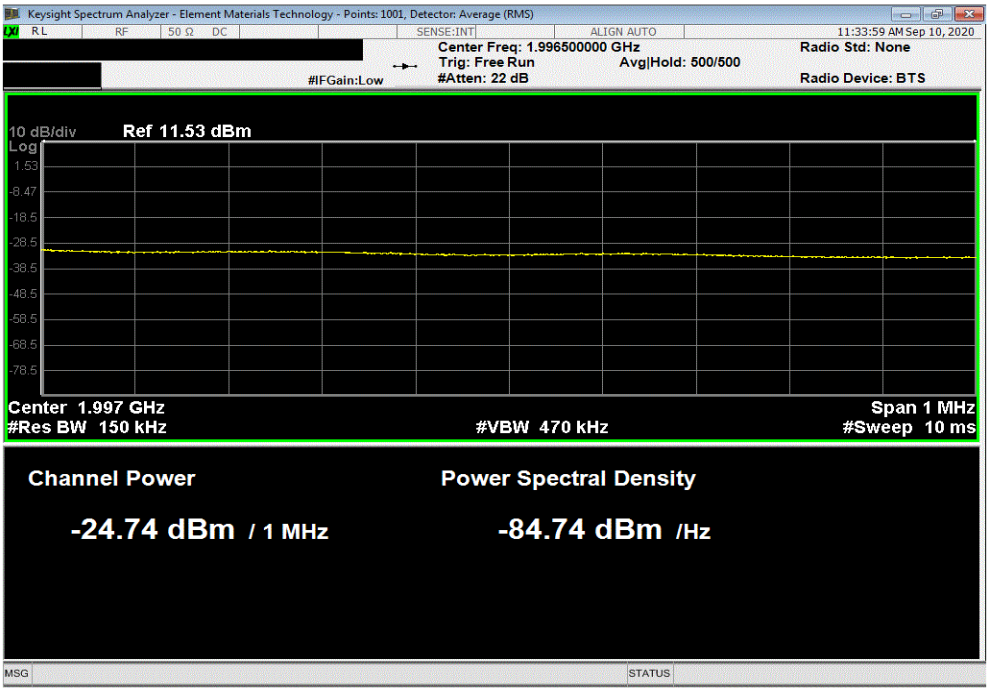
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 64-QAM Modulation, Low Channel +100kHz: 1937.6 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-25.16	-19	Pass



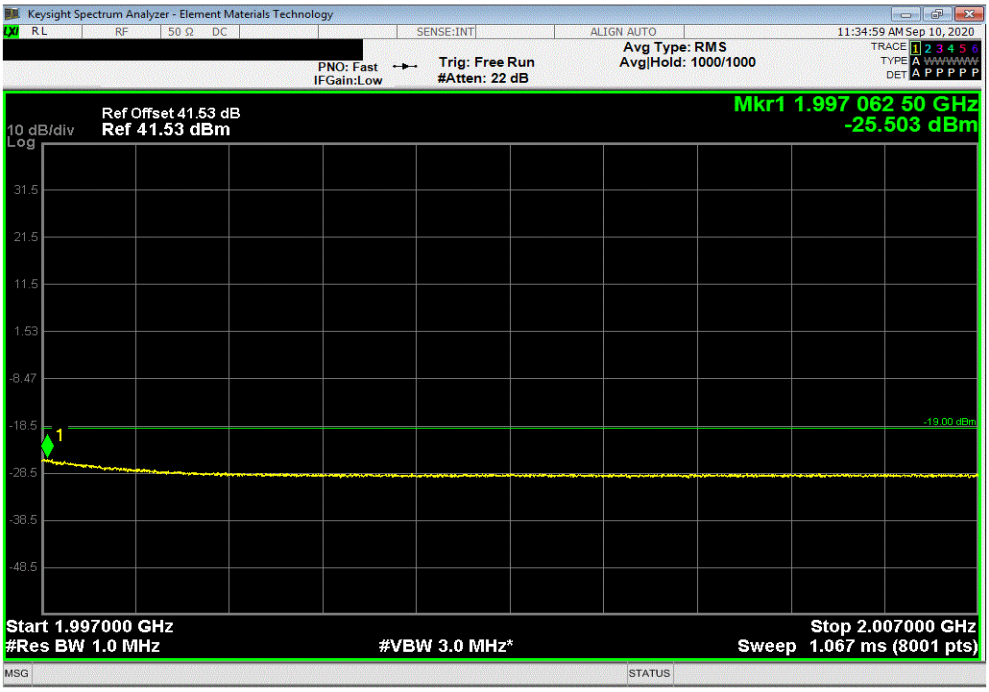
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 64-QAM Modulation, High Channel -100kHz: 1987.4 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-21.81	-19	Pass

BAND EDGE COMPLIANCE - INNER CHANNELS

Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 64-QAM Modulation, High Channel -100kHz: 1987.4 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.74	-19	Pass



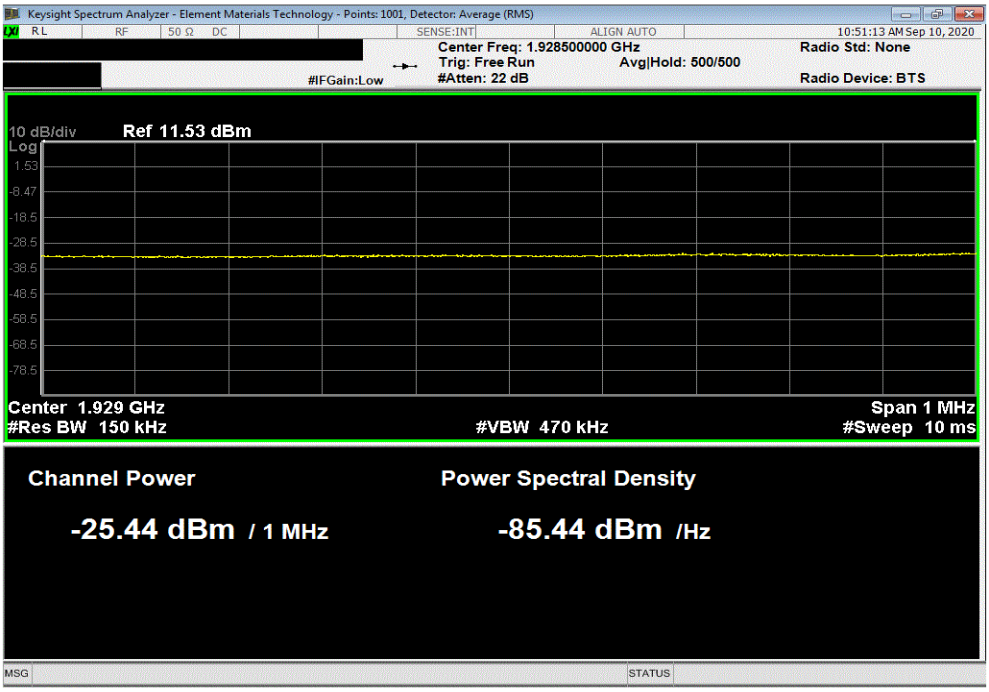
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 64-QAM Modulation, High Channel -100kHz: 1987.4 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-25.50	-19	Pass



BAND EDGE COMPLIANCE - INNER CHANNELS

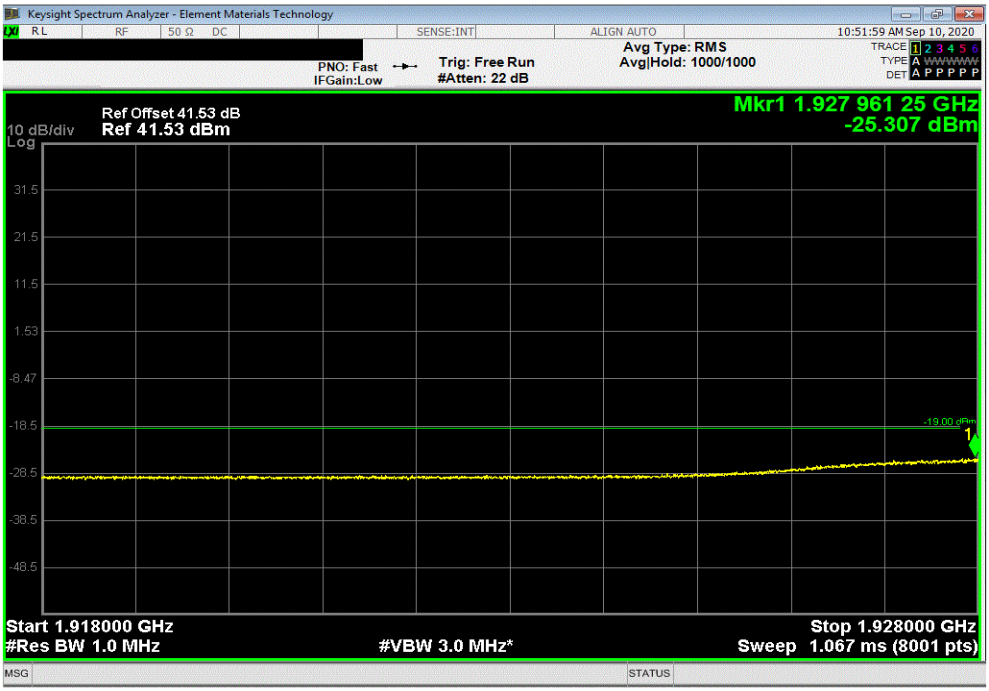
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 256-QAM Modulation, Low Channel +100kHz: 1937.6 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-22.34	-19	Pass

Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 256-QAM Modulation, Low Channel +100kHz: 1937.6 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-25.44	-19	Pass



BAND EDGE COMPLIANCE - INNER CHANNELS

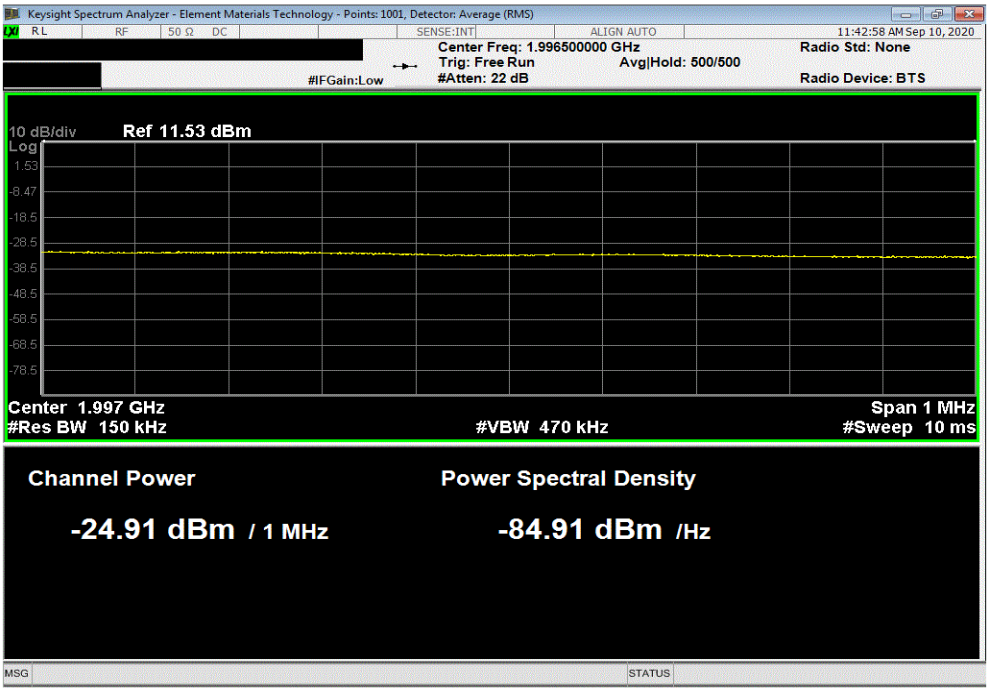
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 256-QAM Modulation, Low Channel +100kHz: 1937.6 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-25.31	-19	Pass



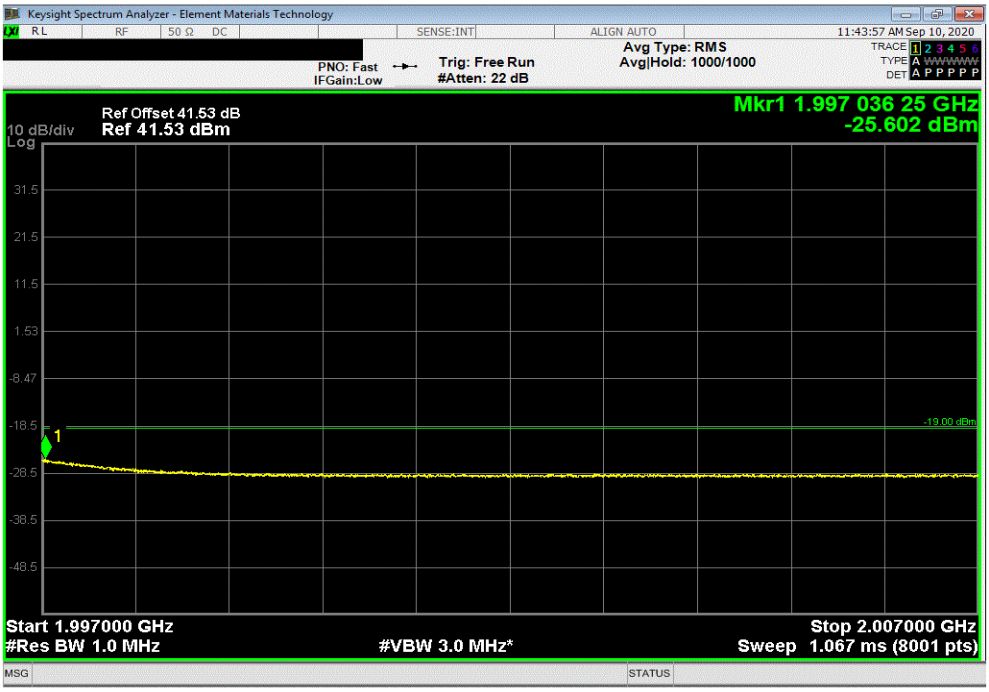
Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 256-QAM Modulation, High Channel -100kHz: 1987.4 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	1			-21.66	-19	Pass

BAND EDGE COMPLIANCE - INNER CHANNELS

Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 256-QAM Modulation, High Channel -100kHz: 1987.4 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	2			-24.91	-19	Pass



Port 1, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 256-QAM Modulation, High Channel -100kHz: 1987.4 MHz						
	Frequency Range			Value (dBm)	Limit (dBm)	Result
	3			-25.60	-19	Pass



SPURIOUS CONDUCTED EMISSIONS

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
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	27-Feb-20	27-Feb-21
Generator - Signal	Keysight	N5171B-506	TEW	2-May-18	2-May-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 24.238(a) and RSS 133 6.5 (ii), 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.: -49dBm = -19dBm -10log(1MHz/1kHz)]. 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.: -39dBm = -19dBm -10log(1MHz/10kHz)]. The required limit of -19dBm with a RBW of > 1MHz was used for all other frequency ranges.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (FHFB) as the original certification test. The FHFB antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the original certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

SPURIOUS CONDUCTED EMISSIONS

element

TbtTx 2020.09.08.0 BETA XMit 2020.03.25.0

EUT:	FHFB (FCC C2PC)			Work Order:	NOKI0021
Serial Number:	L9144200604			Date:	10-Sep-20
Customer:	Nokia Solutions and Networks			Temperature:	22.8 °C
Attendees:	Mitchell Hill, John Rattanavong			Humidity:	48.3% RH
Project:	None			Barometric Pres.:	1022 mbar
Tested by:	Brandon Hobbs	Power:	54 VDC	Job Site:	TX05

TEST SPECIFICATIONS	Test Method
FCC 24E:2020	ANSI C63.26:2015
RSS-133:2018	RSS-133:2018

COMMENTS

All measurement path losses were accounted for in the reference level offest including any attenuators, filters and DC blocks. The carrier power was set to maximum for all testing.

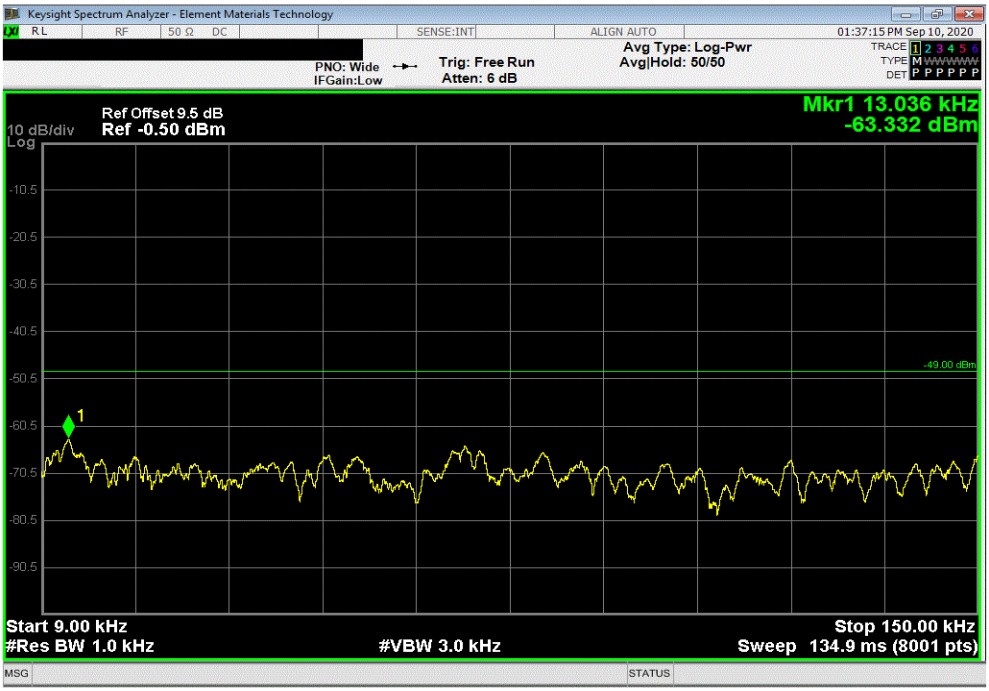
DEVIATIONS FROM TEST STANDARD

None

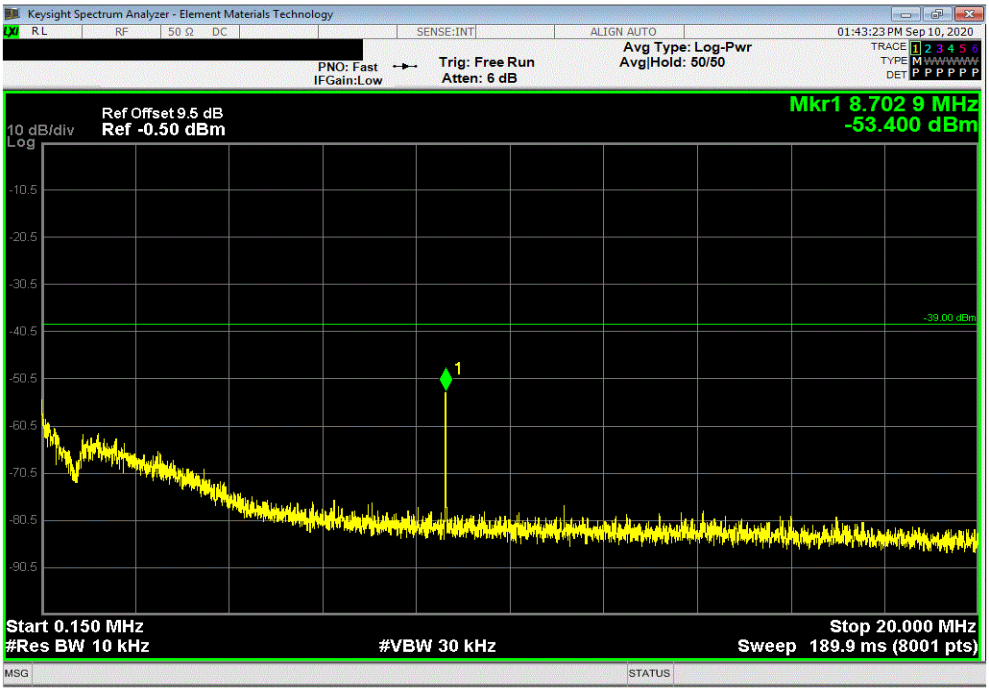
Configuration #	1,2,3	Signature

		Frequency Range	Max Value (dBm)	Limit < (dBm)	Result
Band 25, 1930 MHz - 1995 MHz, 5G					
Port 1					
5 MHz Bandwdith					
QPSK Modulation					
	Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-63.33	-49	Pass
	Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	-53.40	-39	Pass
	Mid Channel, 1962.5 MHz	20 MHz - 3 GHz	-25.53	-19	Pass
	Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-38.02	-19	Pass
	Mid Channel, 1962.5 MHz	10 GHz - 18 GHz	-35.65	-19	Pass
	Mid Channel, 1962.5 MHz	18 GHz - 22 GHz	-35.68	-19	Pass
16-QAM Modulation					
	Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-63.49	-49	Pass
	Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	-53.28	-39	Pass
	Mid Channel, 1962.5 MHz	20 MHz - 3 GHz	-25.27	-19	Pass
	Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-38.35	-19	Pass
	Mid Channel, 1962.5 MHz	10 GHz - 18 GHz	-36.57	-19	Pass
	Mid Channel, 1962.5 MHz	18 GHz - 22 GHz	-36.66	-19	Pass
64-QAM Modulation					
	Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-64.66	-49	Pass
	Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	-53.47	-39	Pass
	Mid Channel, 1962.5 MHz	20 MHz - 3 GHz	-24.57	-19	Pass
	Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-38.60	-19	Pass
	Mid Channel, 1962.5 MHz	10 GHz - 18 GHz	-36.48	-19	Pass
	Mid Channel, 1962.5 MHz	18 GHz - 22 GHz	-36.33	-19	Pass
256-QAM Modulation					
	Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-64.67	-49	Pass
	Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	-53.48	-39	Pass
	Mid Channel, 1962.5 MHz	20 MHz - 3 GHz	-24.76	-19	Pass
	Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-38.10	-19	Pass
	Mid Channel, 1962.5 MHz	10 GHz - 18 GHz	-35.61	-19	Pass
	Mid Channel, 1962.5 MHz	18 GHz - 22 GHz	-35.10	-19	Pass
10 MHz Bandwdith					
256-QAM Modulation					
	Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-66.96	-49	Pass
	Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	-53.12	-39	Pass
	Mid Channel, 1962.5 MHz	20 MHz - 3 GHz	-25.15	-19	Pass
	Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-38.91	-19	Pass
	Mid Channel, 1962.5 MHz	10 GHz - 18 GHz	-35.90	-19	Pass
	Mid Channel, 1962.5 MHz	18 GHz - 22 GHz	-36.35	-19	Pass
15 MHz Bandwdith					
256-QAM Modulation					
	Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-68.23	-49	Pass
	Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	-52.73	-39	Pass
	Mid Channel, 1962.5 MHz	20 MHz - 3 GHz	-25.22	-19	Pass
	Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-38.23	-19	Pass
	Mid Channel, 1962.5 MHz	10 GHz - 18 GHz	-36.89	-19	Pass
	Mid Channel, 1962.5 MHz	18 GHz - 22 GHz	-36.10	-19	Pass
20 MHz Bandwdith					
256-QAM Modulation					
	Mid Channel, 1962.5 MHz	9 kHz - 150 kHz	-66.25	-49	Pass
	Mid Channel, 1962.5 MHz	150 kHz - 20 MHz	-52.87	-39	Pass
	Mid Channel, 1962.5 MHz	20 MHz - 3 GHz	-24.52	-19	Pass
	Mid Channel, 1962.5 MHz	3 GHz - 10 GHz	-37.73	-19	Pass
	Mid Channel, 1962.5 MHz	10 GHz - 18 GHz	-36.00	-19	Pass
	Mid Channel, 1962.5 MHz	18 GHz - 22 GHz	-36.57	-19	Pass

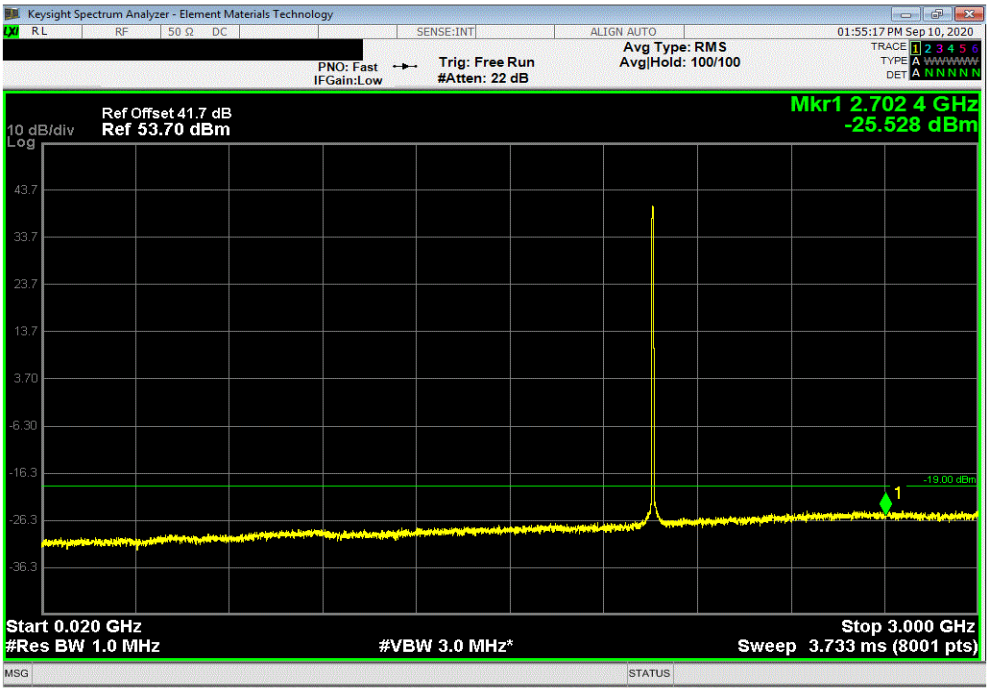
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, QPSK Modulation , Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	9 kHz - 150 kHz			-63.33	-49	Pass



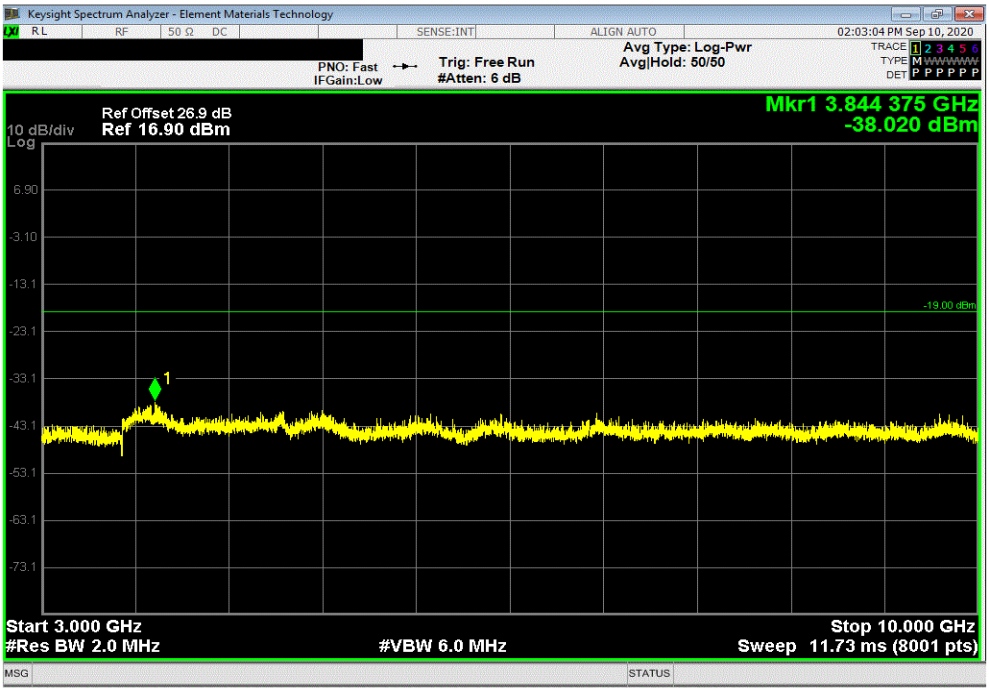
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, QPSK Modulation , Mid Channel, 1962.5 MHz					
Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz			-53.4	-39	Pass



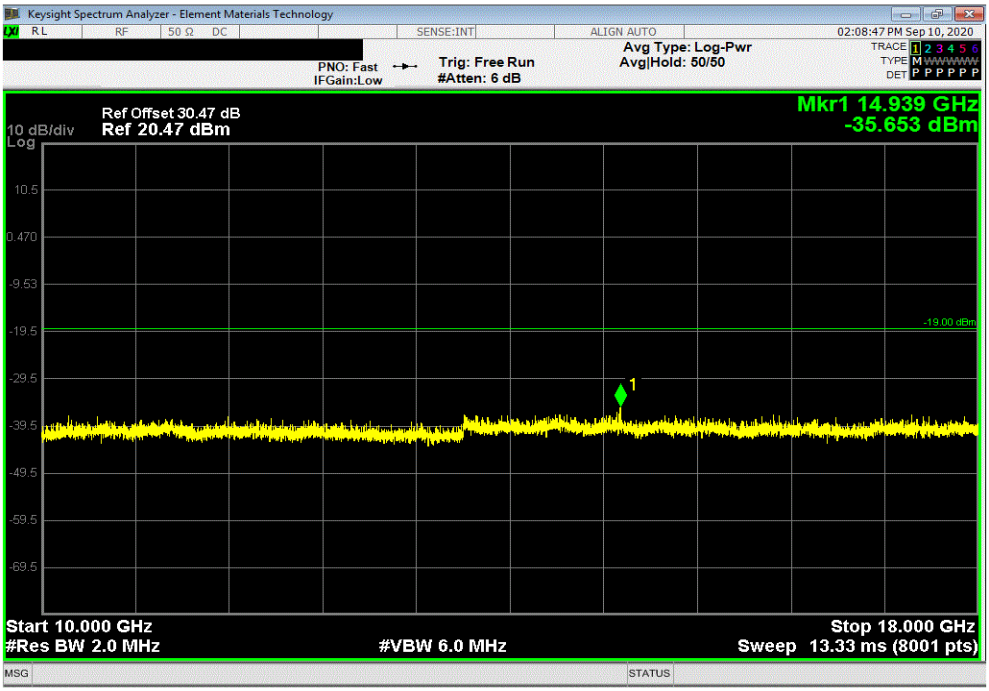
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, QPSK Modulation , Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	20 MHz - 3 GHz			-25.53	-19	Pass



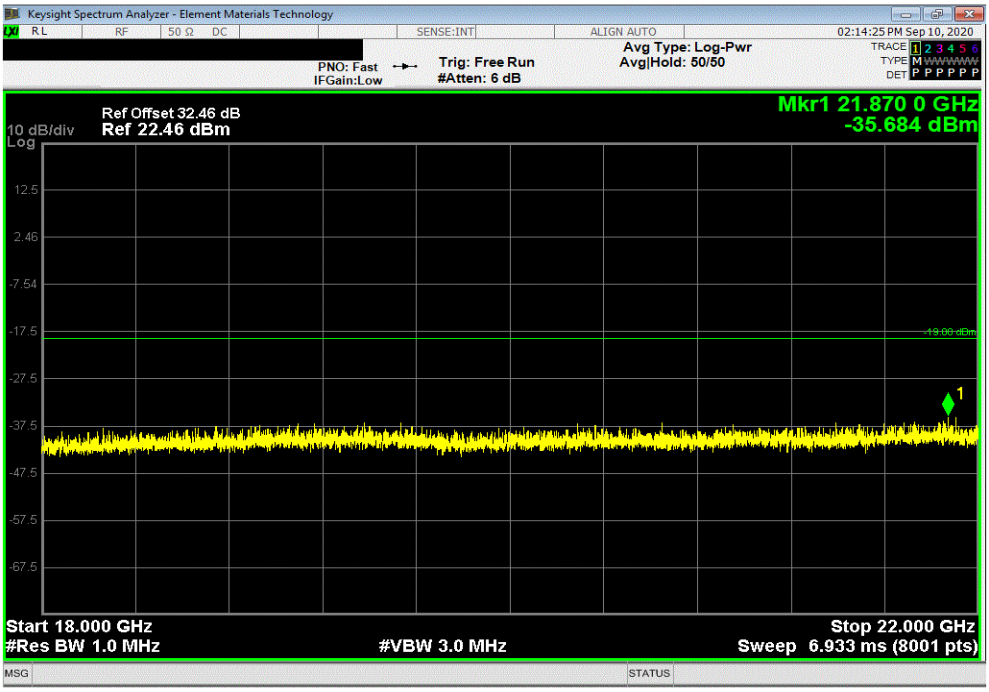
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, QPSK Modulation , Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	3 GHz - 10 GHz			-38.02	-19	Pass



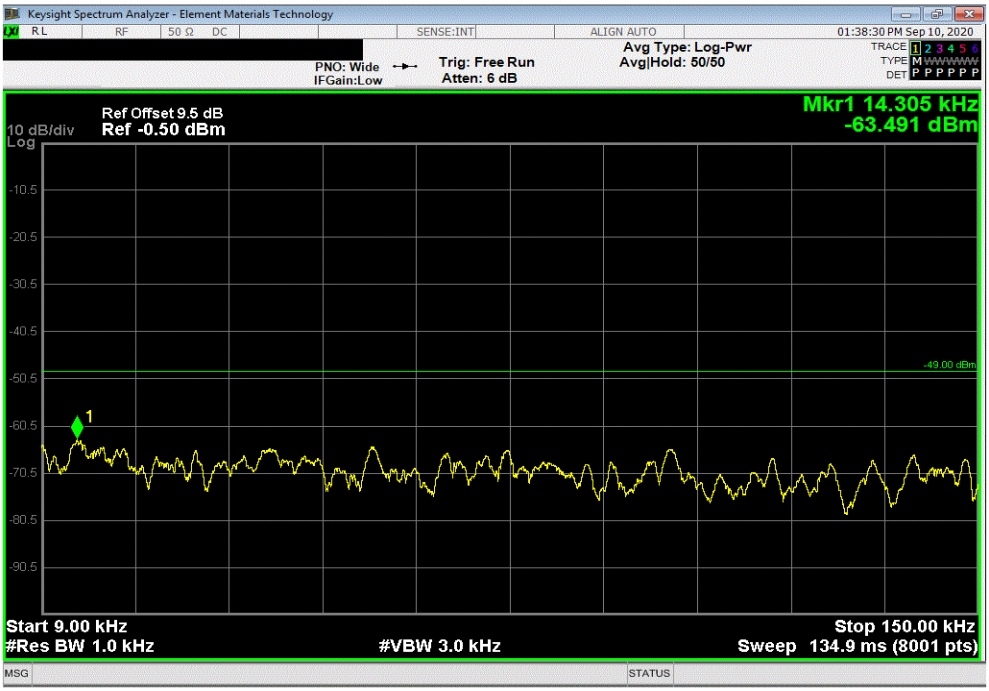
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, QPSK Modulation , Mid Channel, 1962.5 MHz				
Frequency Range		**Max Value (dBm)**	**Limit < (dBm)**	**Result**
10 GHz - 18 GHz		-35.65	-19	Pass



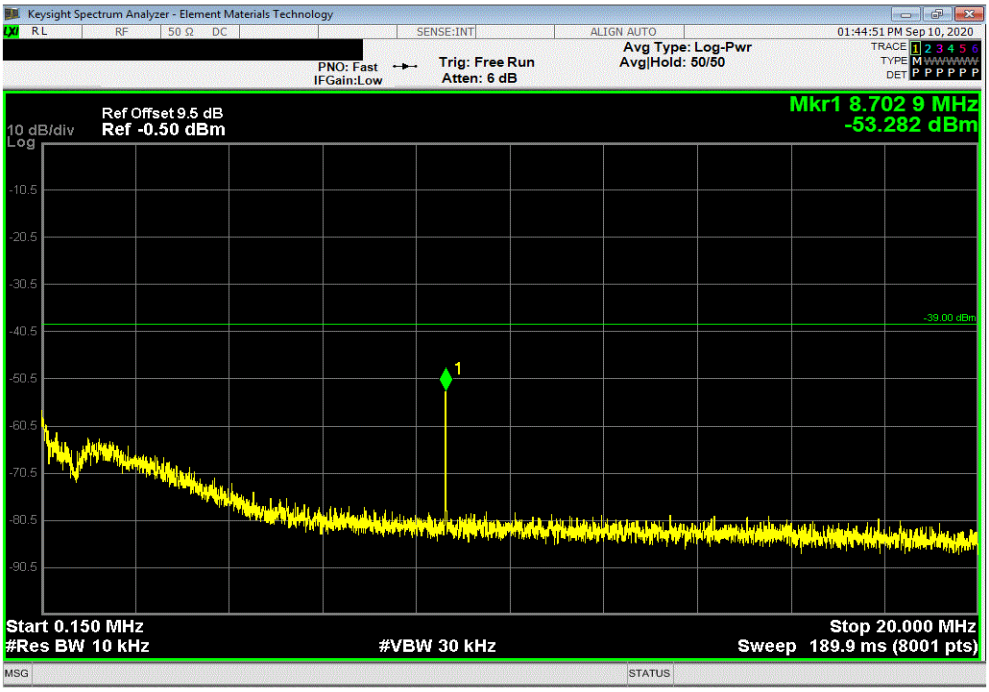
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, QPSK Modulation , Mid Channel, 1962.5 MHz				
Frequency Range		**Max Value (dBm)**	**Limit < (dBm)**	**Result**
18 GHz - 22 GHz		-35.68	-19	Pass



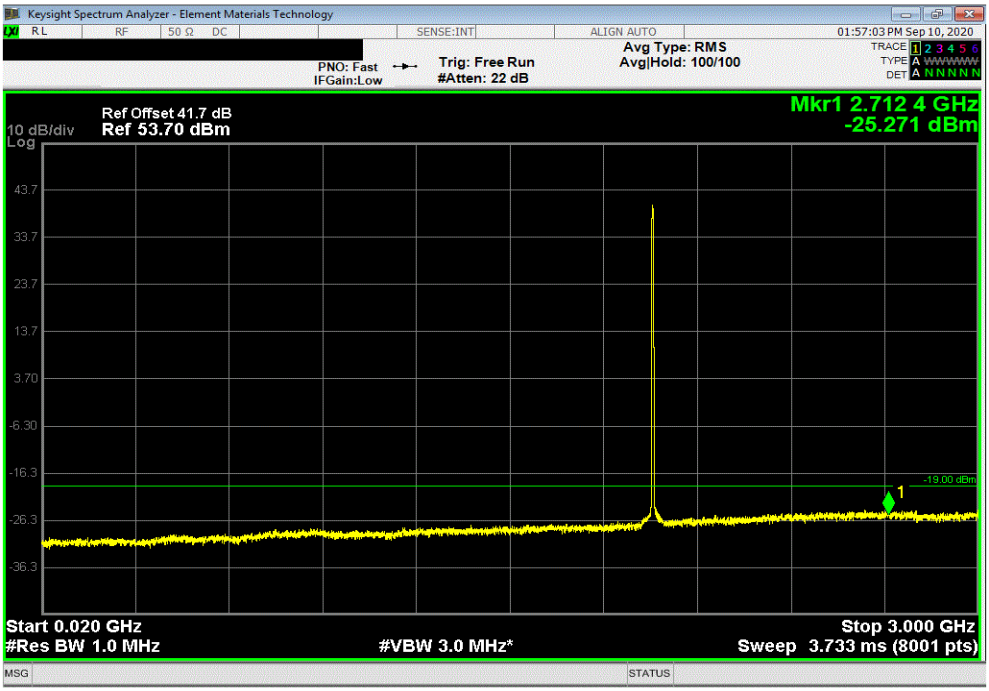
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 16-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz			-63.49	-49	Pass



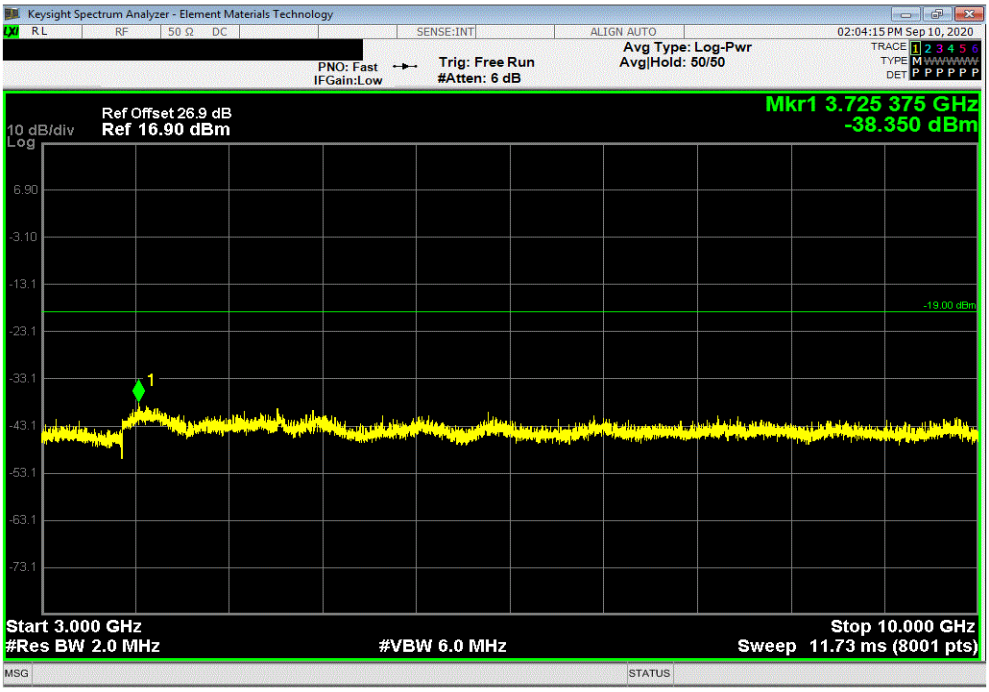
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 16-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz		-53.28	-39	Pass



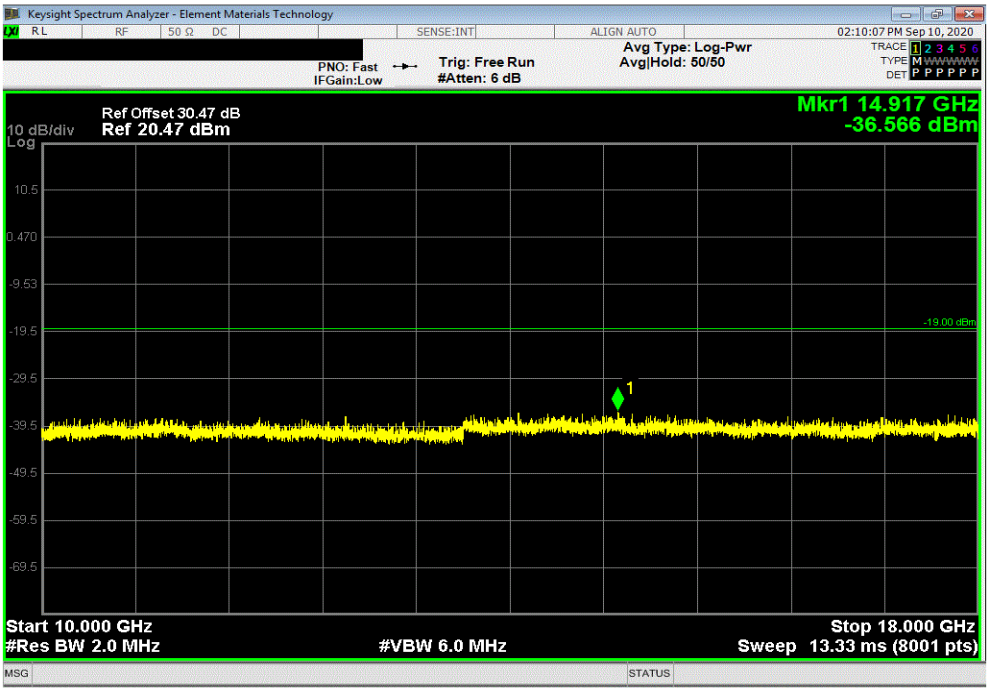
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 16-QAM Modulation, Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	20 MHz - 3 GHz			-25.27	-19	Pass



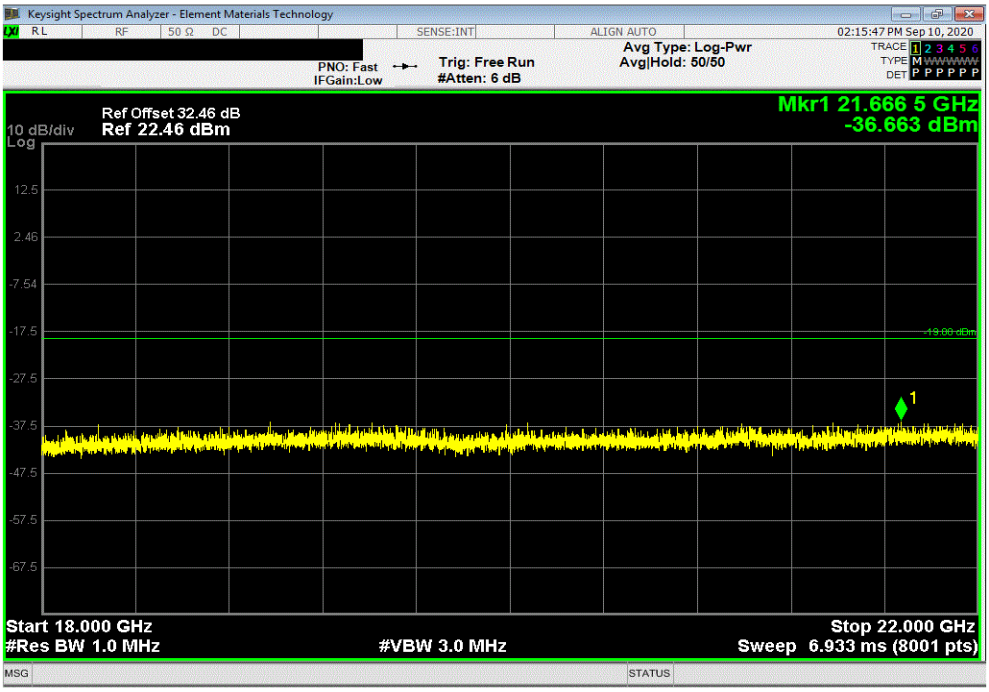
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 16-QAM Modulation, Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	3 GHz - 10 GHz			-38.35	-19	Pass



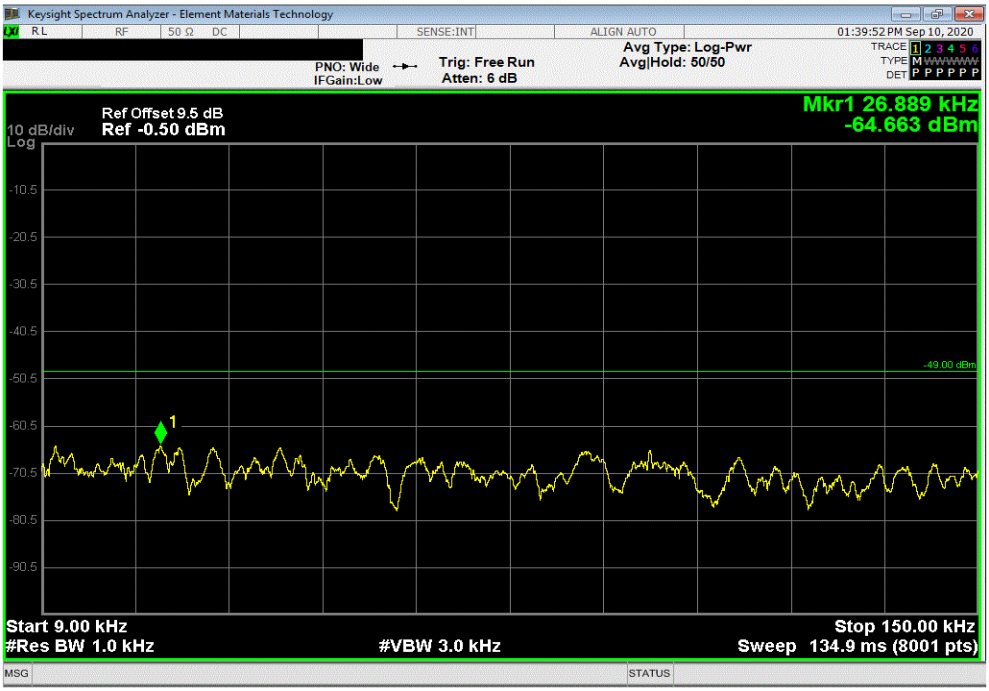
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 16-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		**Max Value (dBm)**	**Limit < (dBm)**	**Result**
10 GHz - 18 GHz		-36.57	-19	Pass



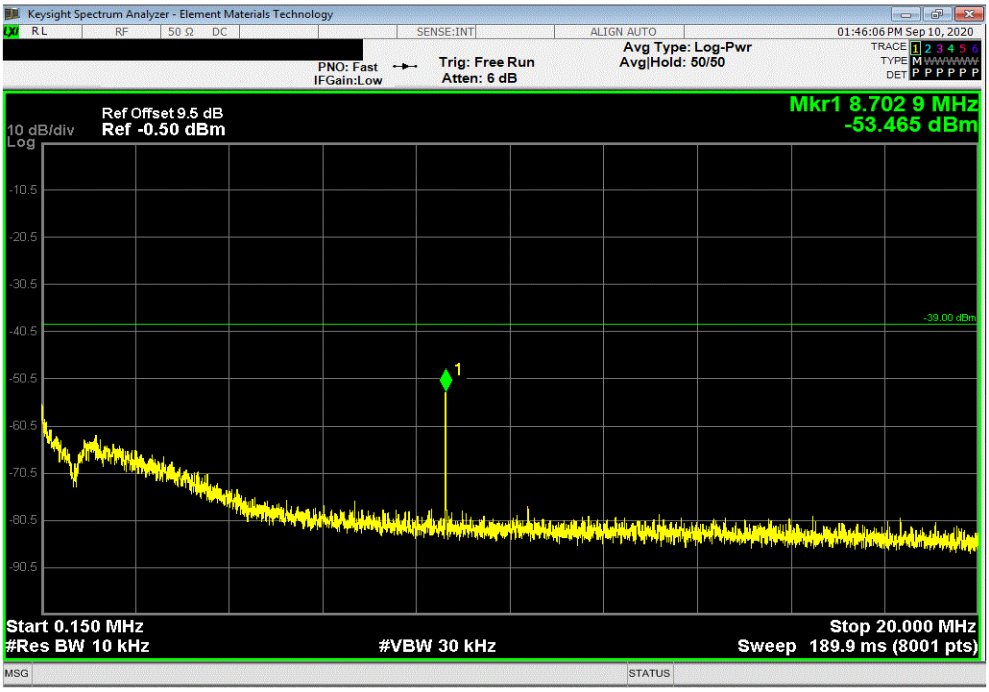
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 16-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		**Max Value (dBm)**	**Limit < (dBm)**	**Result**
18 GHz - 22 GHz		-36.66	-19	Pass



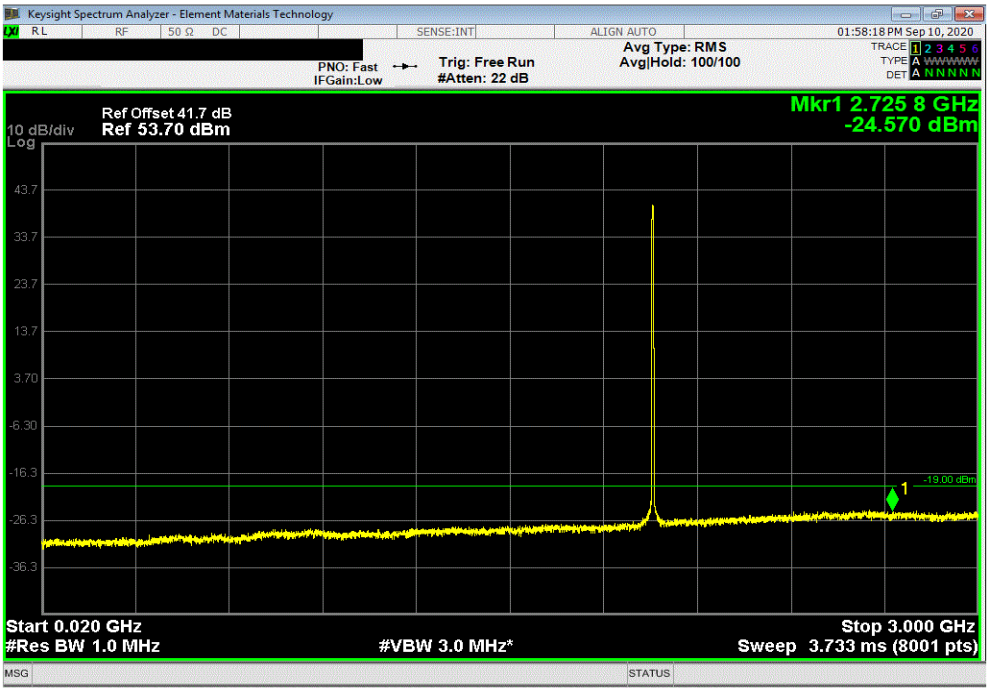
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 64-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz			-64.66	-49	Pass



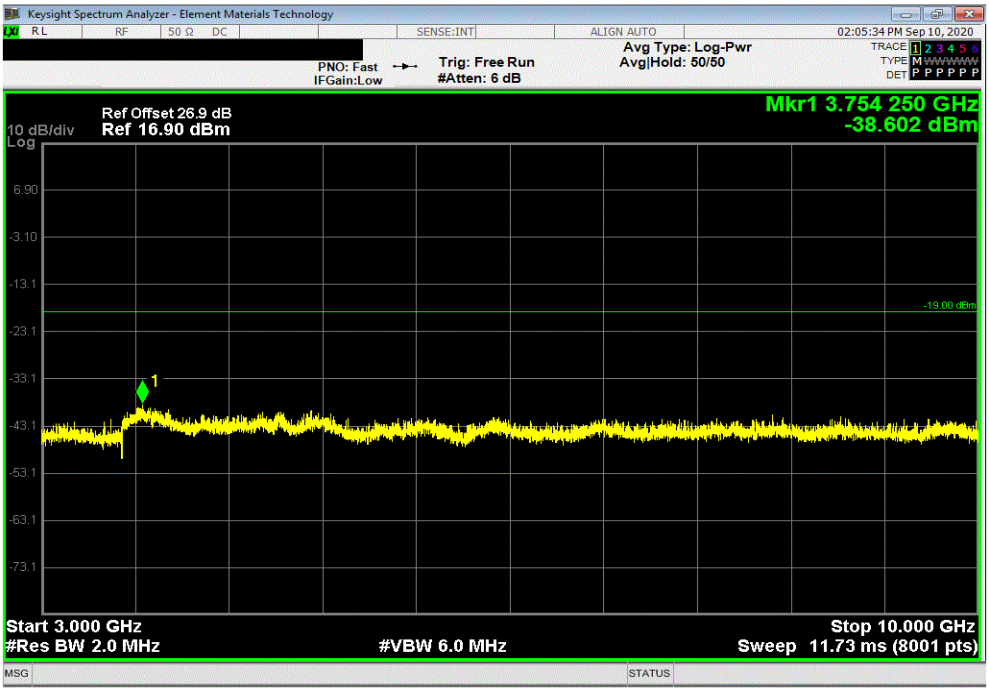
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 64-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz		-53.47	-39	Pass



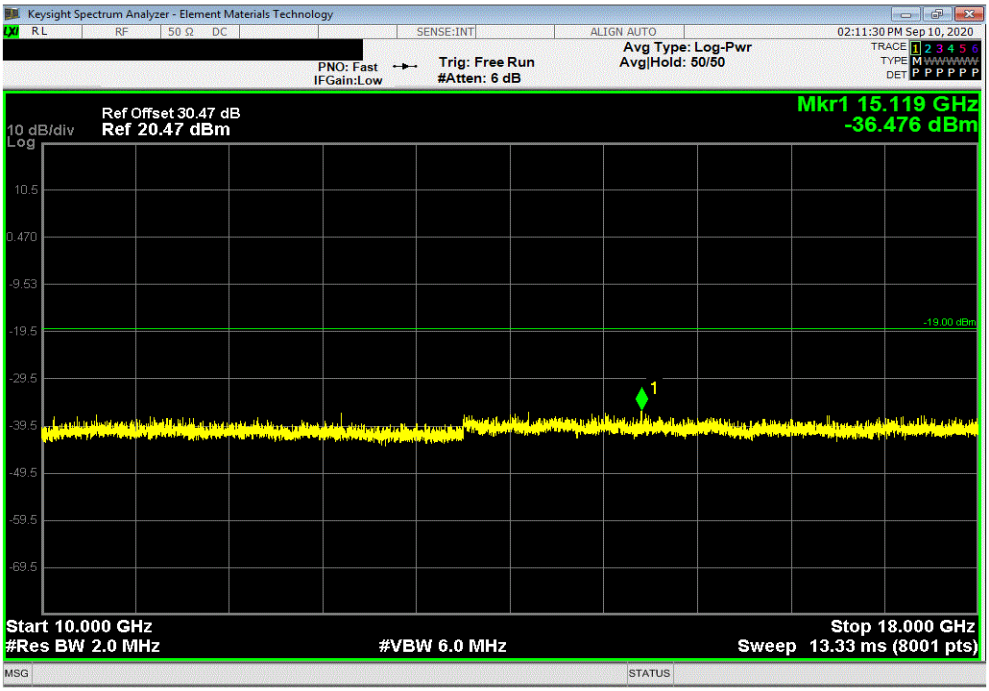
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 64-QAM Modulation, Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	20 MHz - 3 GHz			-24.57	-19	Pass



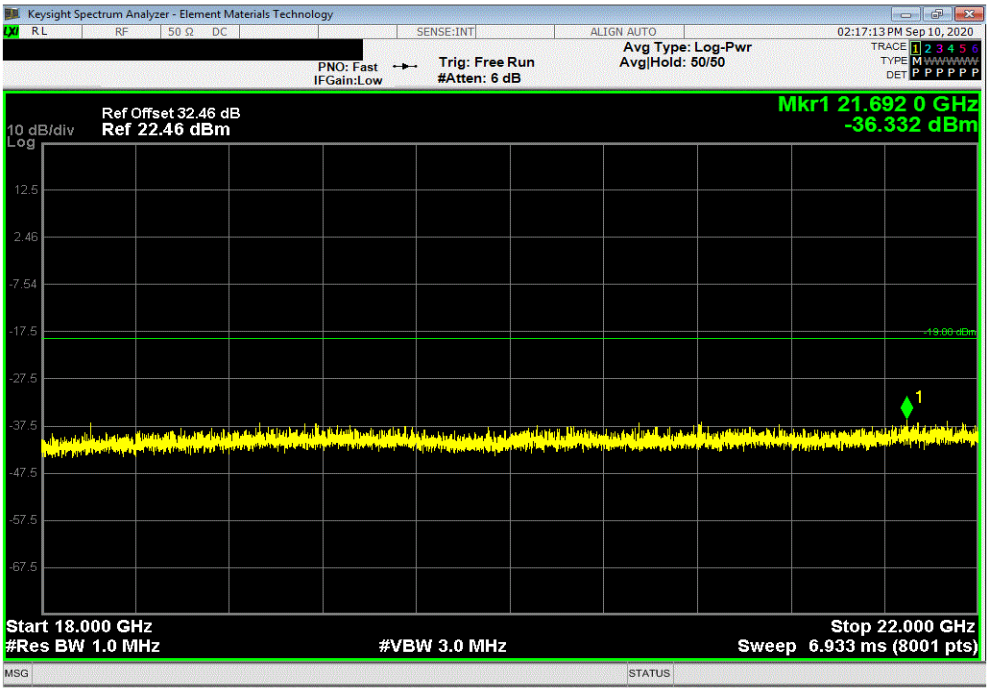
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 64-QAM Modulation, Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	3 GHz - 10 GHz			-38.6	-19	Pass



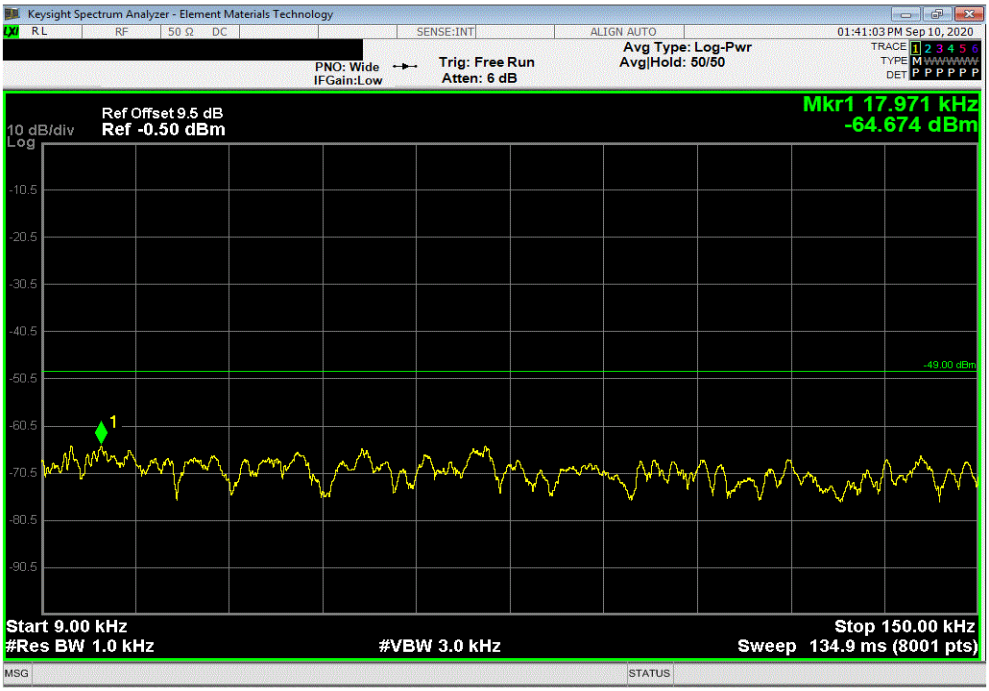
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 64-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		**Max Value (dBm)**	**Limit < (dBm)**	**Result**
10 GHz - 18 GHz		-36.48	-19	Pass



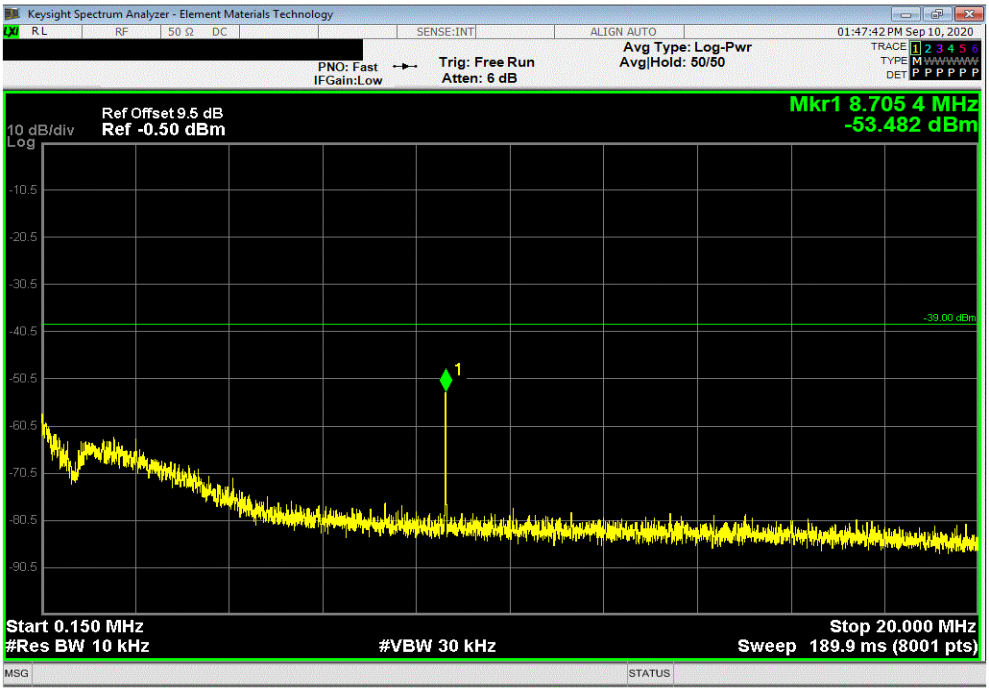
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 64-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		**Max Value (dBm)**	**Limit < (dBm)**	**Result**
18 GHz - 22 GHz		-36.33	-19	Pass



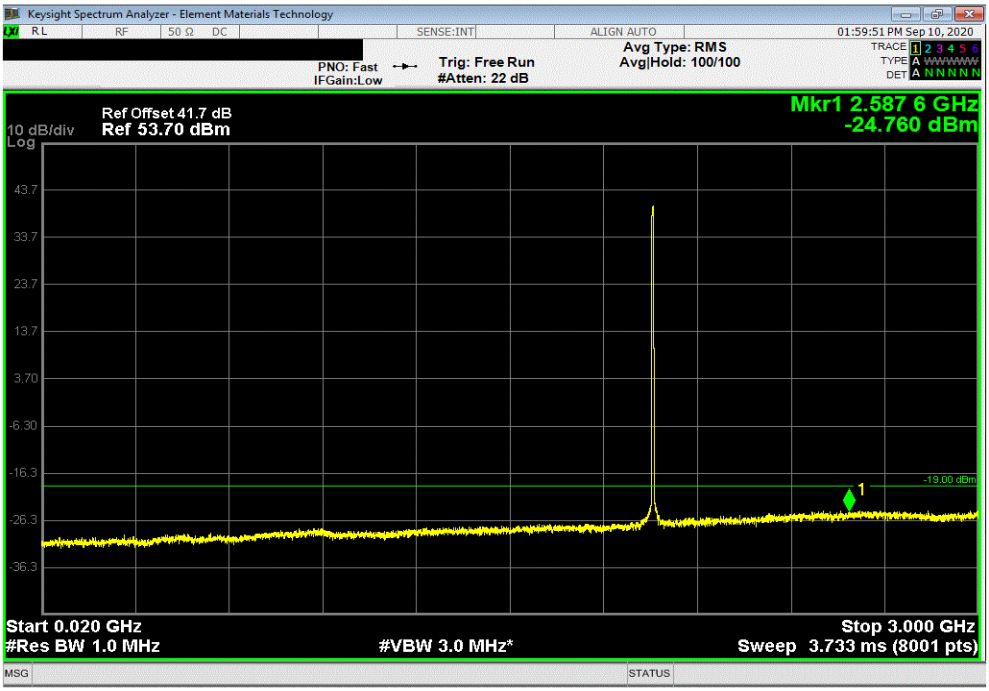
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz			-64.67	-49	Pass



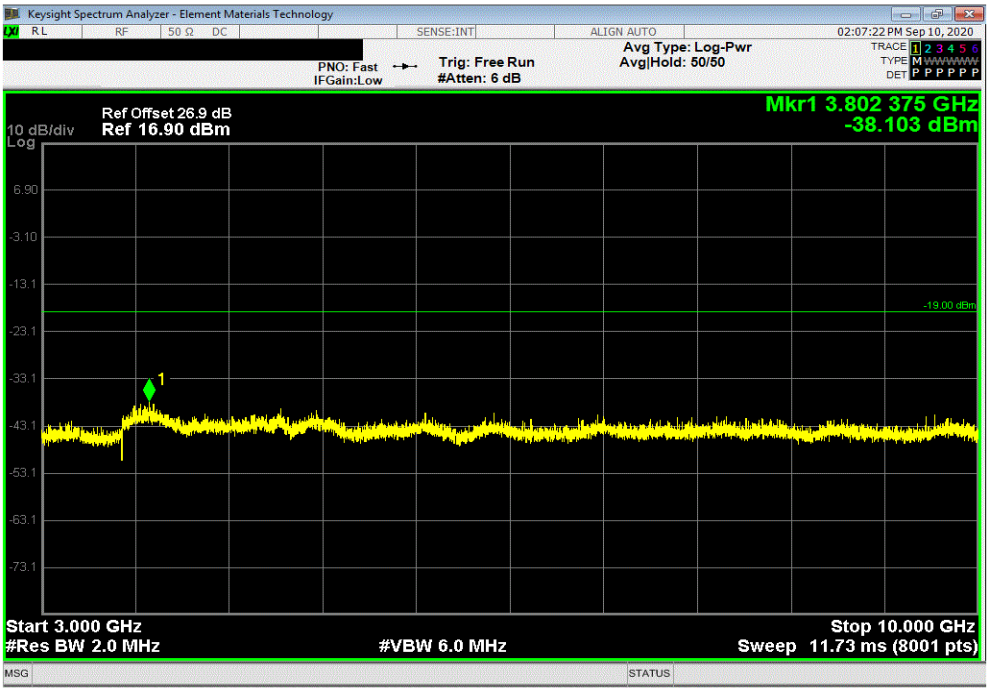
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz		-53.48	-39	Pass



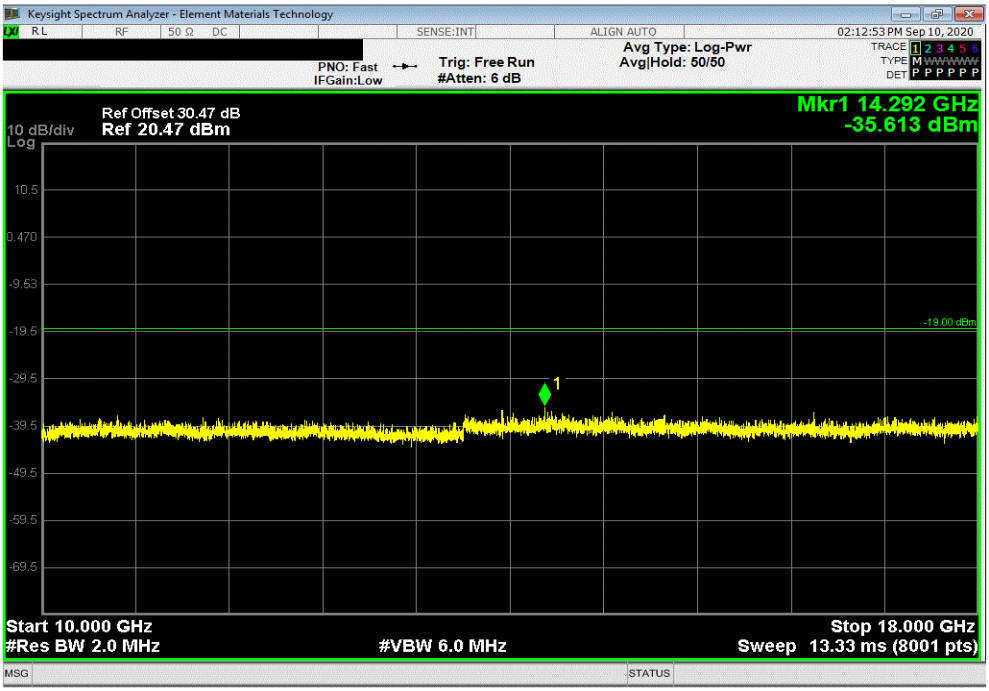
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	20 MHz - 3 GHz			-24.76	-19	Pass



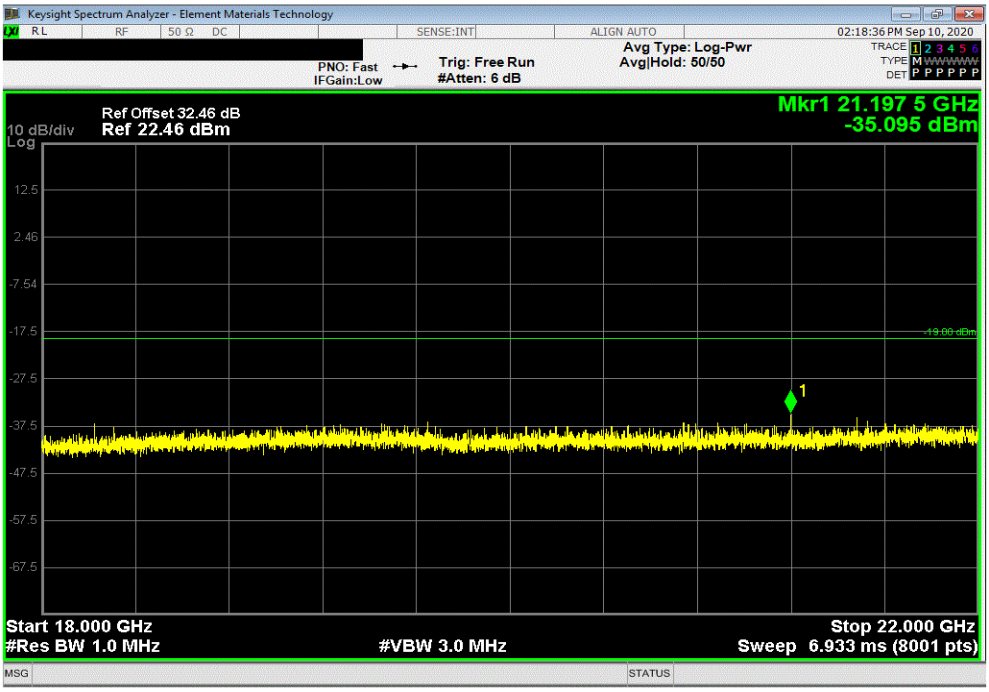
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	3 GHz - 10 GHz			-38.1	-19	Pass



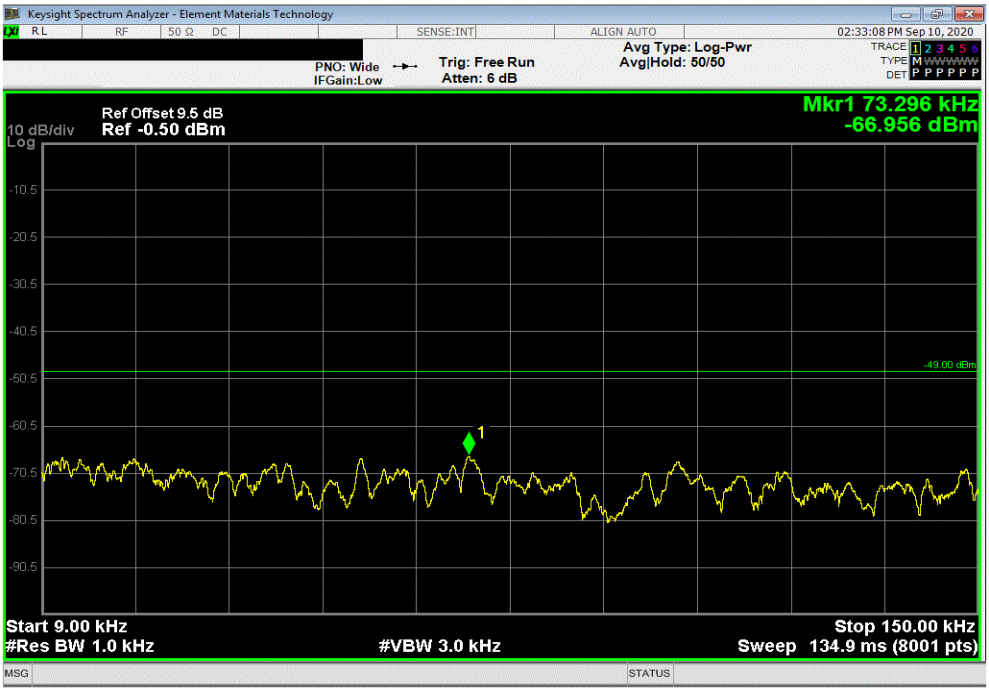
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		**Max Value (dBm)**	**Limit < (dBm)**	**Result**
10 GHz - 18 GHz		-35.61	-19	Pass



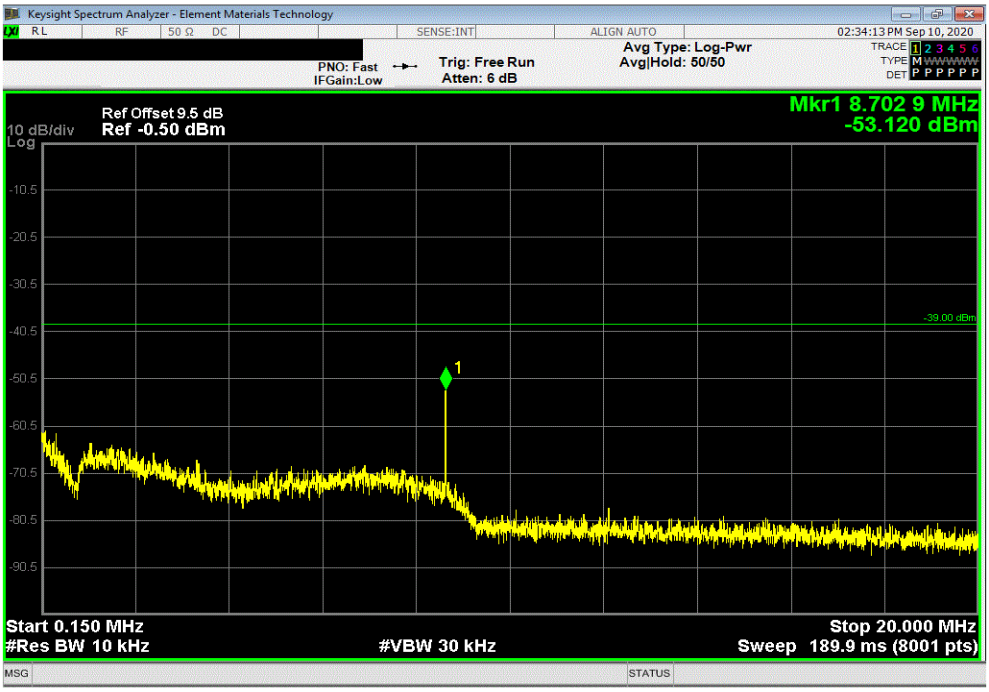
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 5 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		**Max Value (dBm)**	**Limit < (dBm)**	**Result**
18 GHz - 22 GHz		-35.1	-19	Pass



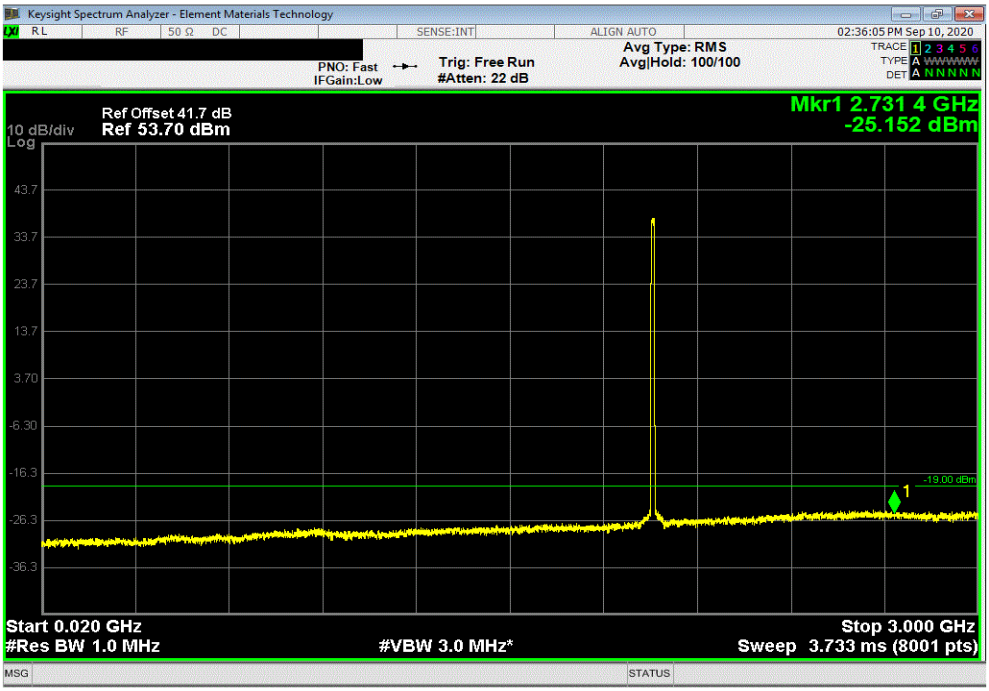
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz			-66.96	-49	Pass



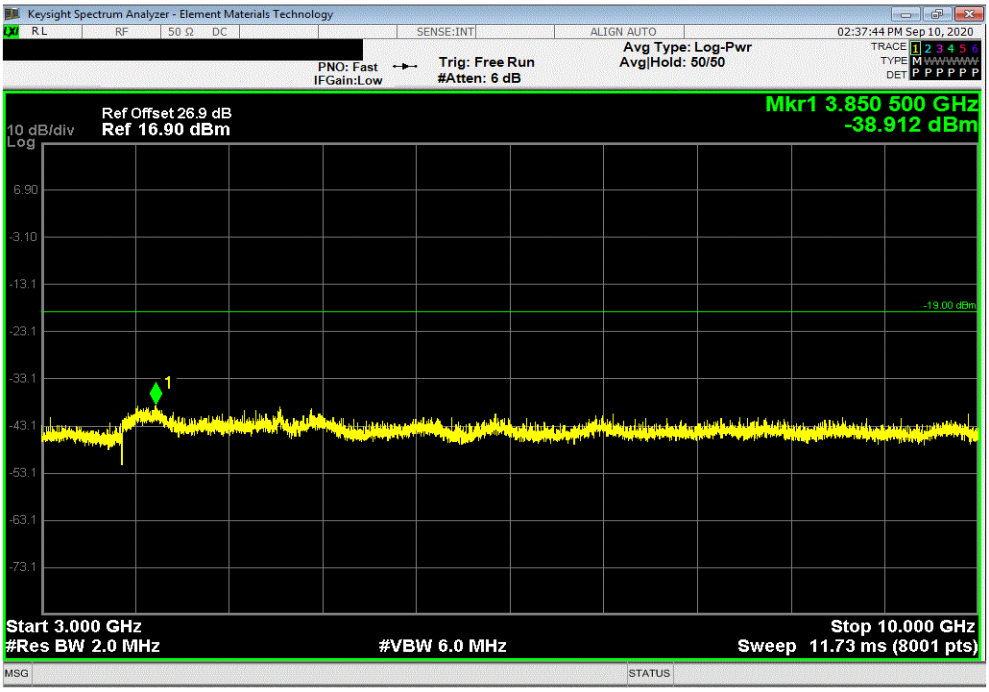
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz		-53.12	-39	Pass



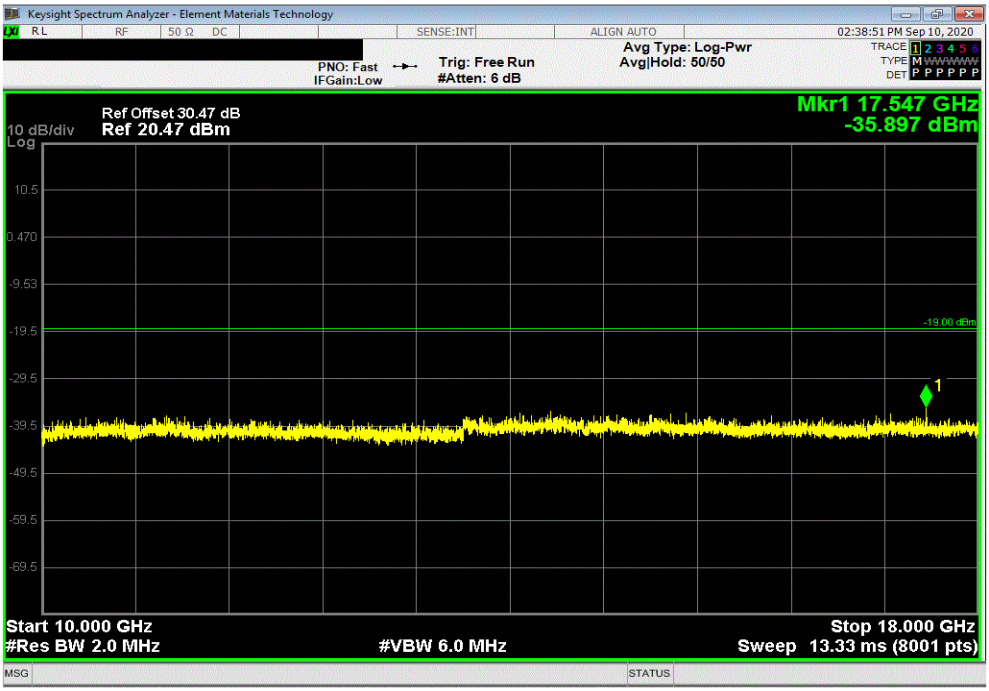
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	20 MHz - 3 GHz			-25.15	-19	Pass



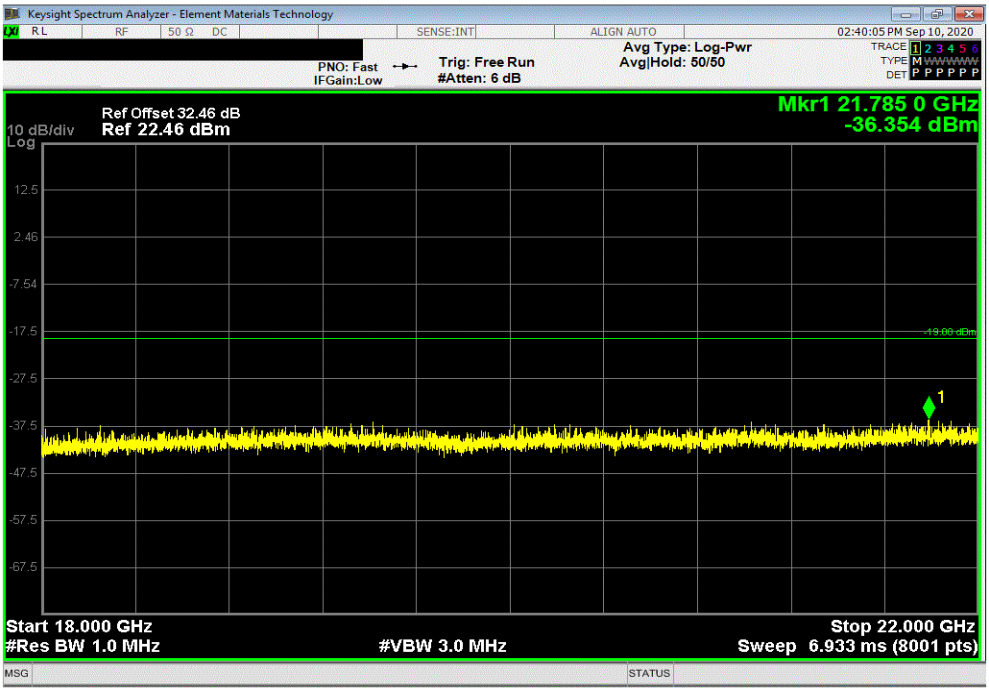
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	3 GHz - 10 GHz			-38.91	-19	Pass



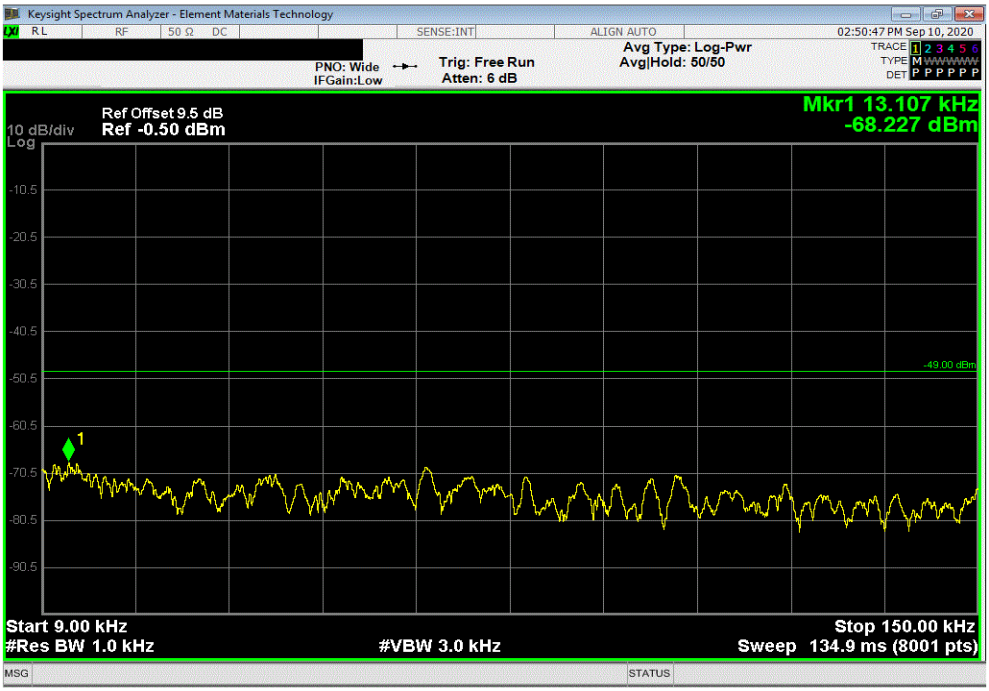
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		**Max Value (dBm)**	**Limit < (dBm)**	**Result**
10 GHz - 18 GHz		-35.9	-19	Pass



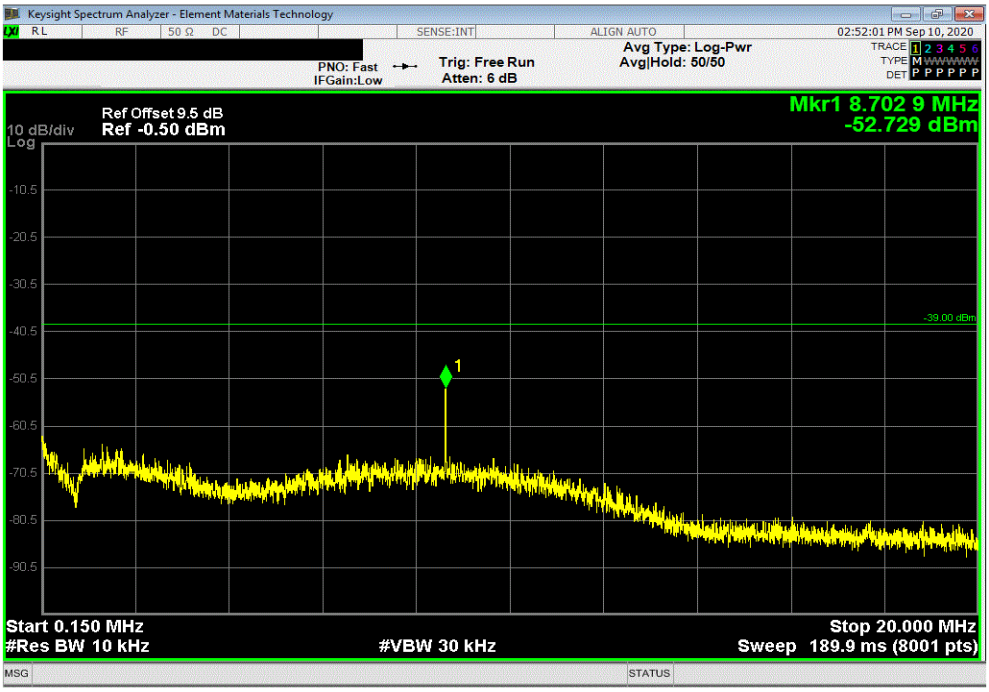
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 10 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		**Max Value (dBm)**	**Limit < (dBm)**	**Result**
18 GHz - 22 GHz		-36.35	-19	Pass



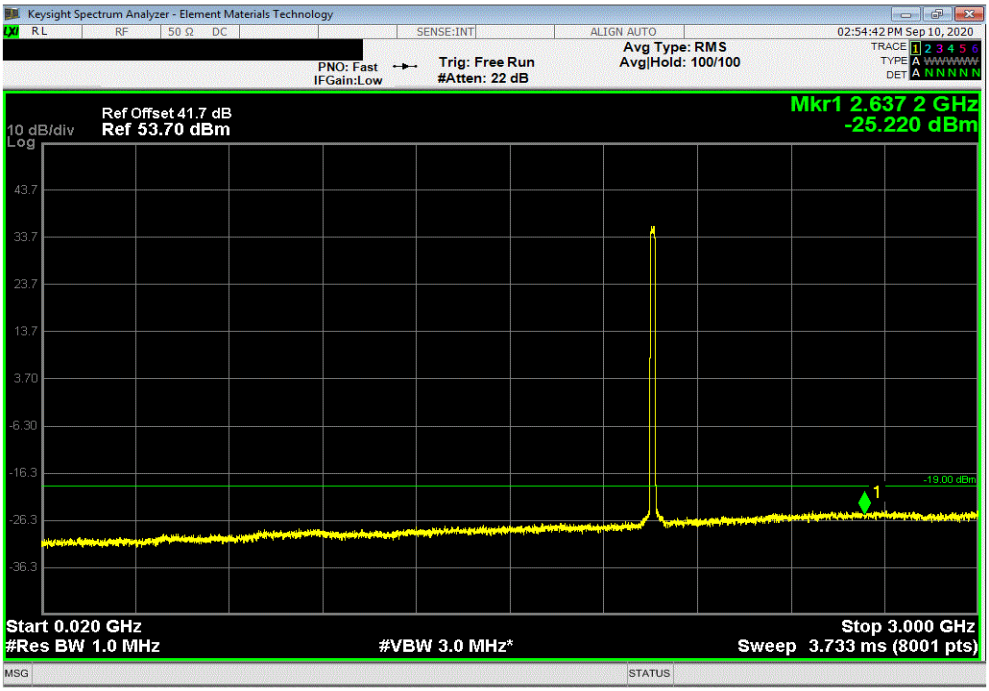
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	9 kHz - 150 kHz			-68.23	-49	Pass



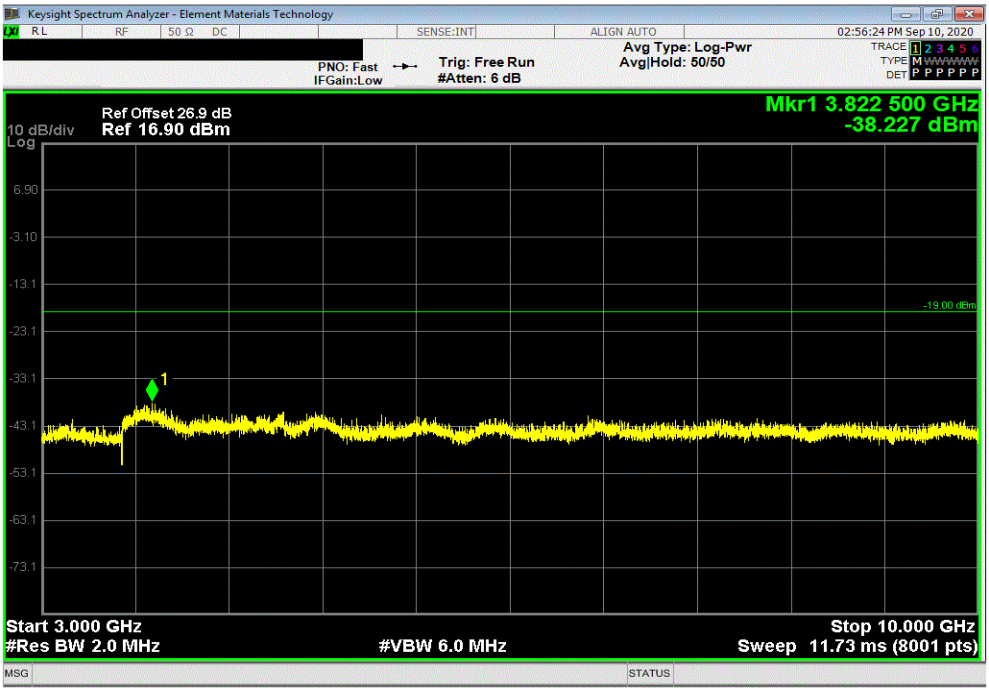
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
	Frequency Range		Max Value (dBm)	Limit < (dBm)	Result
	150 kHz - 20 MHz		-52.73	-39	Pass



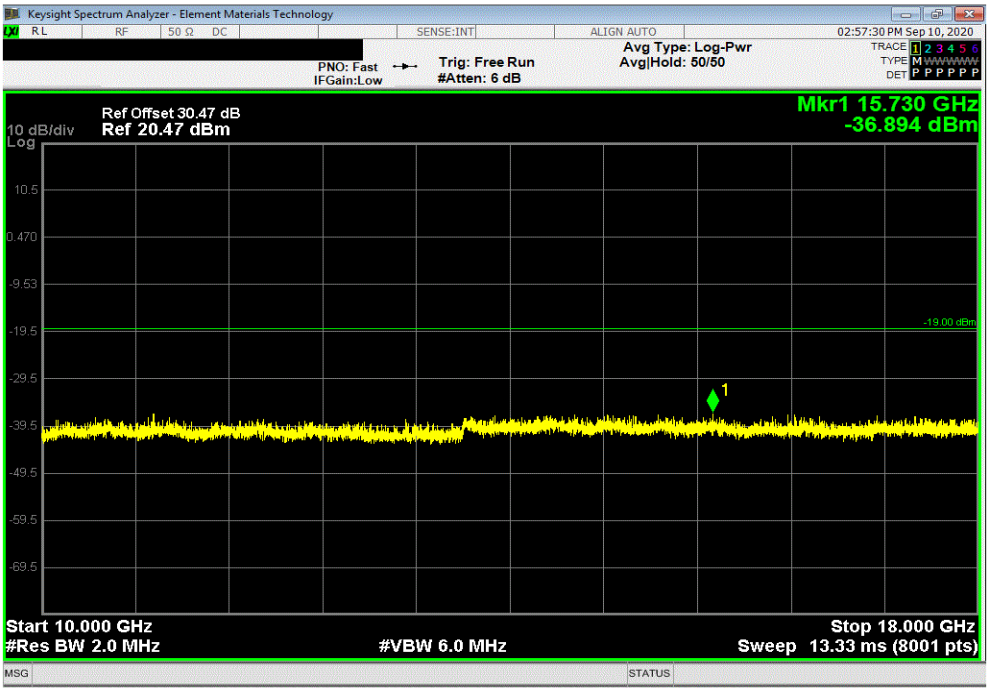
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	20 MHz - 3 GHz			-25.22	-19	Pass



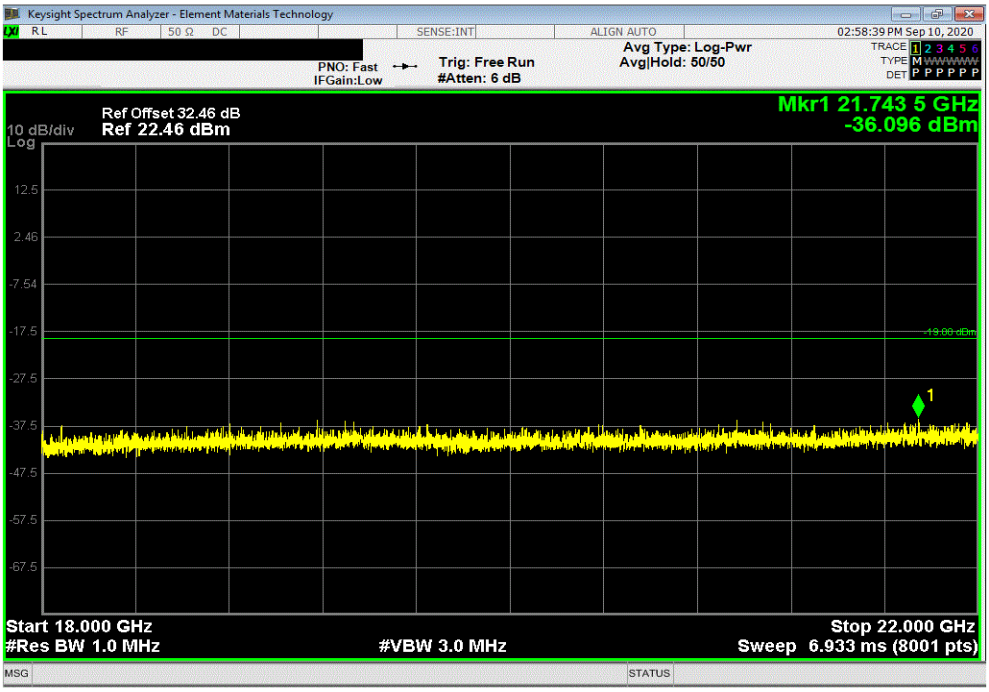
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	3 GHz - 10 GHz			-38.23	-19	Pass



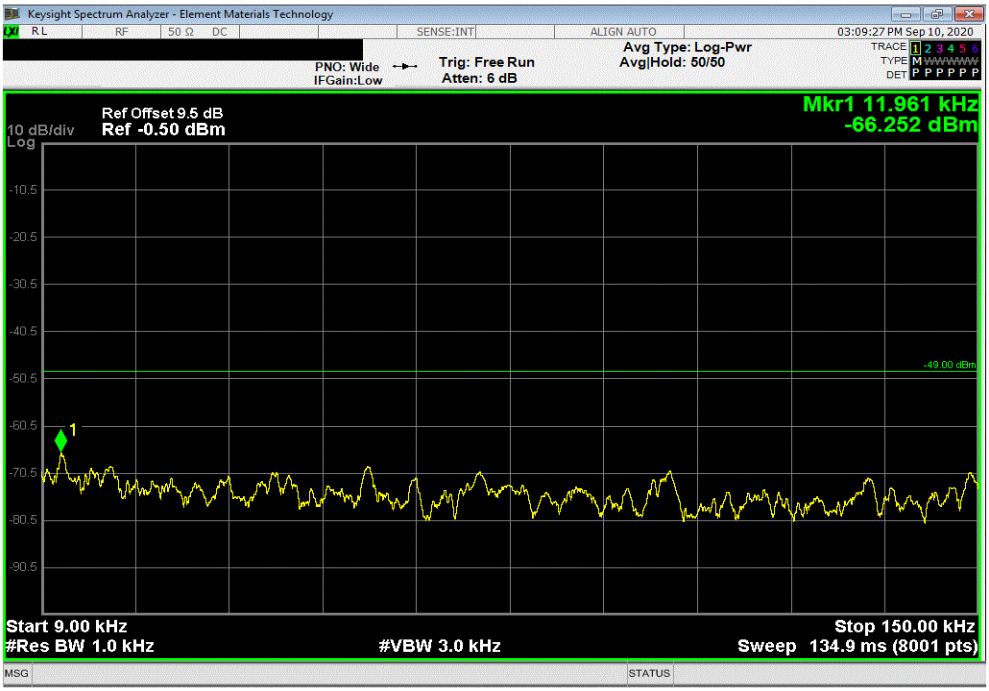
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result
10 GHz - 18 GHz		-36.89	-19	Pass



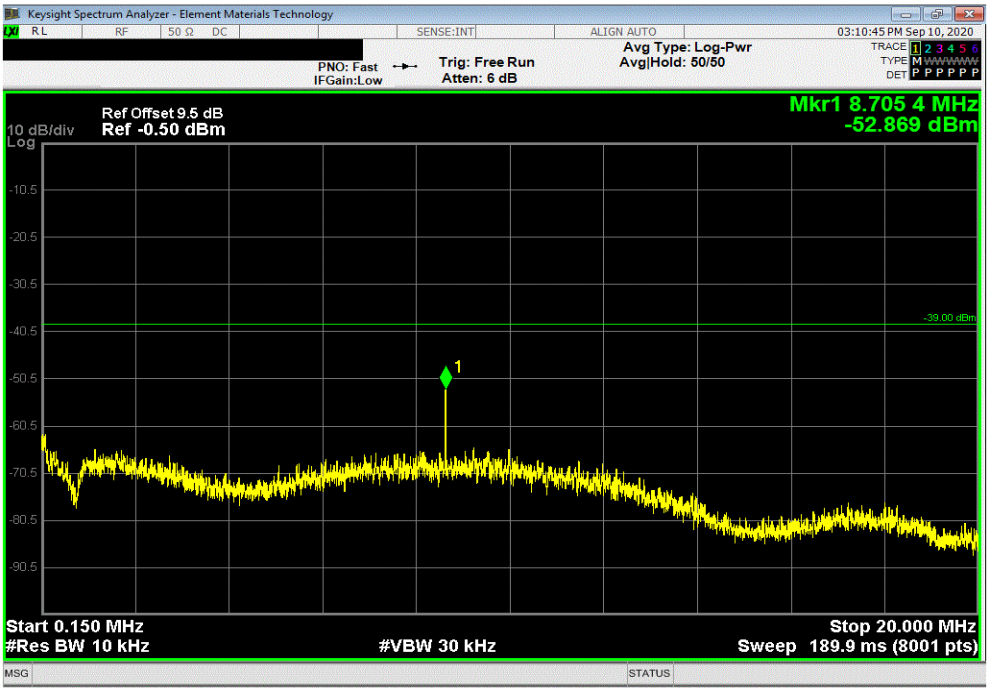
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 15 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result
18 GHz - 22 GHz		-36.1	-19	Pass



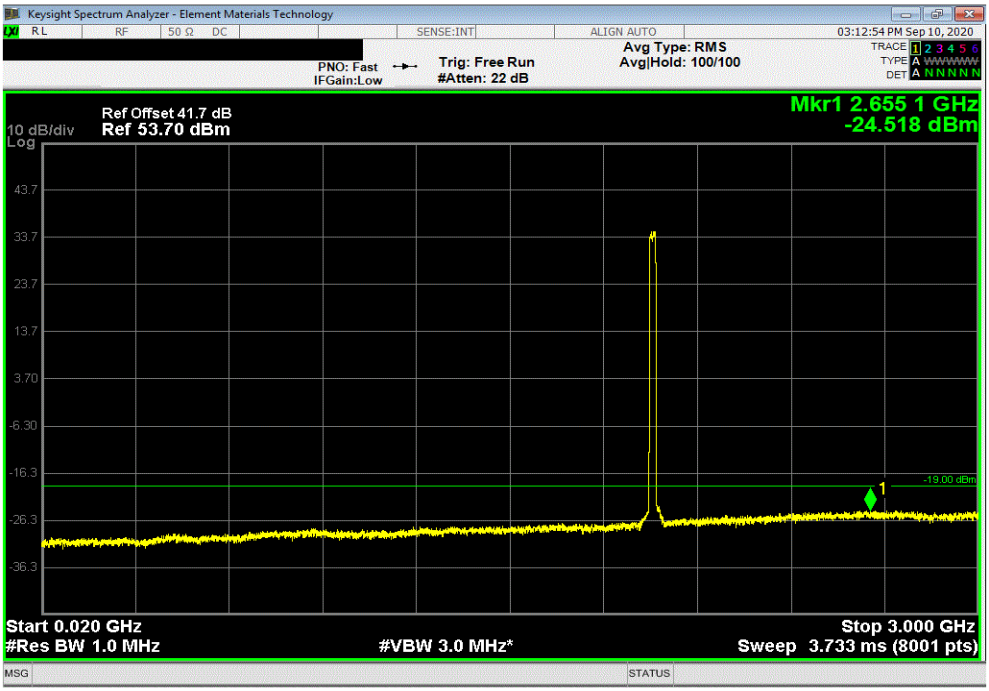
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz					
Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
9 kHz - 150 kHz			-66.25	-49	Pass



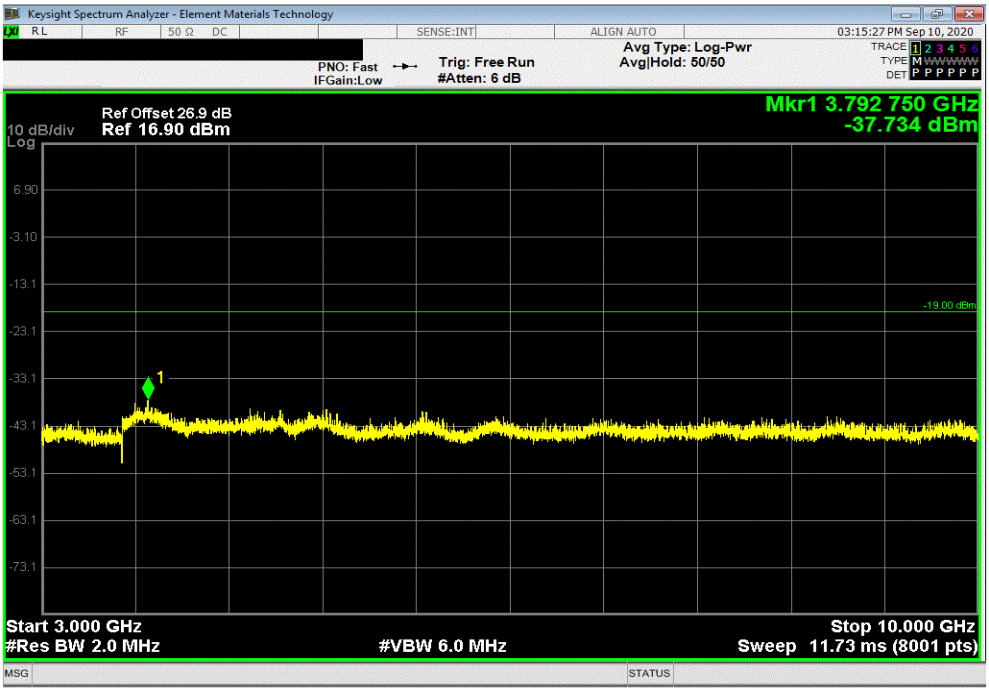
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result
150 kHz - 20 MHz		-52.87	-39	Pass



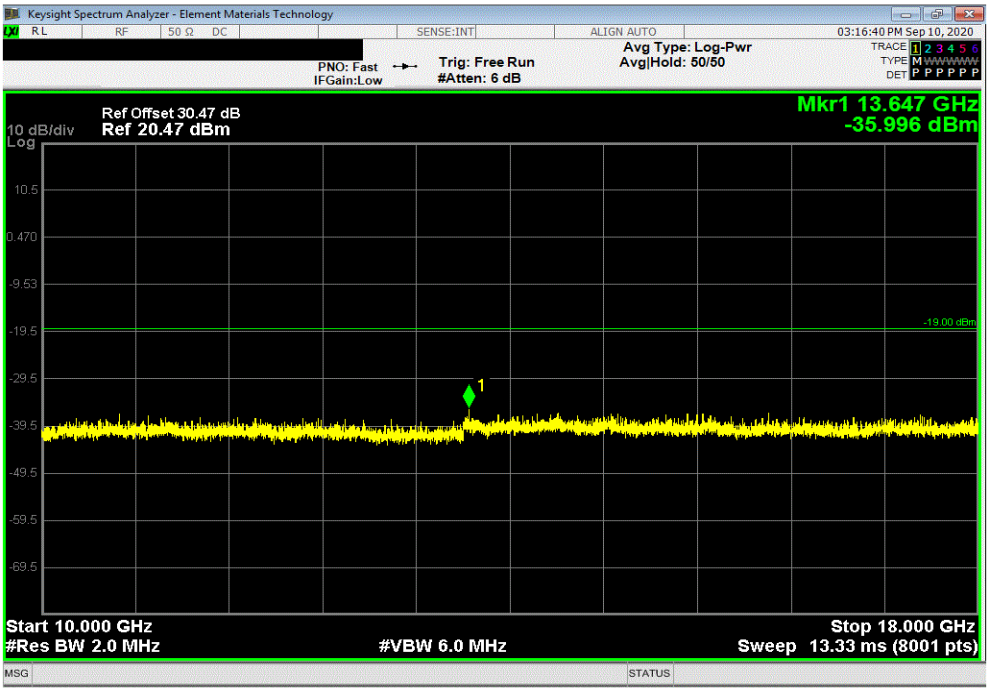
Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	20 MHz - 3 GHz			-24.52	-19	Pass



Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz						
	Frequency Range			Max Value (dBm)	Limit < (dBm)	Result
	3 GHz - 10 GHz			-37.73	-19	Pass



Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result
10 GHz - 18 GHz		-36	-19	Pass



Band 25, 1930 MHz - 1995 MHz, 5G, Port 1, 20 MHz Bandwdith, 256-QAM Modulation, Mid Channel, 1962.5 MHz				
Frequency Range		Max Value (dBm)	Limit < (dBm)	Result
18 GHz - 22 GHz		-36.57	-19	Pass