SPURIOUS CONDUCTED EMISSIONS - MULTIBAND

element

XMit 2022.02.07.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3379	AMM	2022-09-09	2023-09-09
Block - DC	Fairview Microwave	SD3239	ANC	2022-03-02	2023-03-02
Signal Analyzer	Keysight	N9030B	R332	2022-07-28	2023-07-28
Attenuator	Fairview Microwave	SA3N10W-20	RKY	2022-11-15	2023-11-15
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2022-09-08	2023-09-08
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17

TEST DESCRIPTION

The antenna port spurious emissions were measured at the RF output terminal of the EUT through 5 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 40 GHz. The 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 KDB 971168 D01v03 section 6 and ANSI C63.26-2015.

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

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

RF conducted emissions testing was performed on the worst case port by band. The AQQQA antenna ports are all within the manufacturer's rated output power tolerances (the RF power variation between antenna ports is small as shown in this certification testing) and the antenna port 22 for the 3.7GHz band and port 57 for the 3.45GHz band were selected to perform the testing for this effort.

Per section FCC 27.53(n) and FCC 27.53 (I)(1), power of any emission outside of the authorized operating frequency range cannot exceed, of the two rule parts, the more restrictive limits. Per section 27.53(n), the power of any emission outside band edge region (frequency ranges below 3430MHz and above 3570MHz) cannot exceed -58.1 dBm/MHz. The limit is adjusted to -58.1 dBm [-40 dBm -10 log (64)] per FCC KDB 662911D01 v02r01 and ANSI C63.26-2015 section 6.4 because the BTS may operate as a 64 port MIMO transmitter. The resolution bandwidth to be used for these measurements must be $\geq$ 1MHz per FCC 27.53(n)(1).

Dual band with 3.45GHz carriers at maximum (200W) and 3.7GHz carriers at 280W test cases.
The port power (7.5W) and radio power (480W) are at maximum rated levels. Testing was performed on TAB 57; the highest power port (worst case port) for the 3.45GHz Band. 256QAM modulation was used for all testing.
(1) 3.45G Band NR40 carrier at maximum power (3.125W/TRX) at bot channel and the 3.7G Band NR40 carrier (4.375W/TRX) at top ch operating simultaneously. Maximum spacing between carriers.
(2) 3.45G Band NR40 carrier at maximum power (3.125W/TRX) at top channel and the 3.7G Band NR40 carrier (4.375W /TRX) at bot ch operating simultaneously. Minimum spacing between carriers.
(3) 3.45G Band NR40 carrier at maximum power (3.125W/TRX) at bot channel and the 3.7G Band NR100 carrier (4.375W /TRX) at top ch operating simultaneously. Maximum spacing between carriers.
(4) 3.45G Band NR40 carrier at maximum power (3.125W/TRX) at top ch and the 3.7G Band NR100 carrier (4.375W /TRX) at bottom ch operating simultaneously. Minimum spacing between carriers.

Dual band with 3.7G carriers at maximum (320W) and 3.45G carriers at 160W test cases.
The port power (7.5W) and radio power (480W) are at maximum rated levels. Testing was performed on TAB 22; the highest power port (worst case port) for the 3.7GHz Band. 256QAM modulation was used for all testing.
(1) 3.7G Band NR100 carrier at max power (5.00W/TRX) & max OBW at bot channel and the 3.45G Band NR20 carrier (2.50W/TRX) at max PSD (8W/MHz) at min OBW at top ch operating simultaneously. Min spacing
(2) 3.7G Band NR100 carrier at max power (5.00W/TRX) & max OBW at top channel and the 3.45G Band NR20 carrier (2.50W /TRX) at max PSD (8W/MHz) and min OBW at bot ch operating simultaneously. Max spacing
(3) 3.7G Band NR40 carrier at max power (5.00W/TRX) & max PSD (8W/MHz) at bot channel and the 3.45G Band NR20 carrier (2.50W /TRX) at max PSD (8W/MHz) and min OBW at top ch operating simultaneously. Min spacing
(4) 3.7G Band NR40 carrier at max power (5.00W/TRX) & max PSD (8W/MHz) at top channel and the 3.45G Band NR20 carrier (2.50W /TRX) at max PSD (8W/MHz) and min OBW at bot ch operating simultaneously. Max spacing

SPURIOUS CONDUCTED EMISSIONS - MULTIBAND

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TbtTx 2022.06.03.0 XMit 2022.02.07.0

EUT:	AQQQA			Work Order:	NOKI0052
Serial Number:	YK224300010			Date:	25-Jan-23
Customer:	Nokia of America Corporation			Temperature:	23.1 °C
Attendees:	John Rattanavong, Michell Hill			Humidity:	29.2% RH
Project:	None			Barometric Pres.:	1023 mbar
Tested by:	Brandon Hobbs	Power:	54 VDC	Job Site:	TX07

TEST SPECIFICATIONS	Test Method
FCC 27:2023	ANSI C63.26:2015

COMMENTS

All measurement path losses were accounted for in the reference level offest including any attenuators, filters and DC blocks. Band n77 carriers were enabled at maximmum power levels for the 3.45GHz band at 3.125watts/carrier and for the 3.7GHz band at 5watts/carrier in uniquely separate dual mode operating configurations.

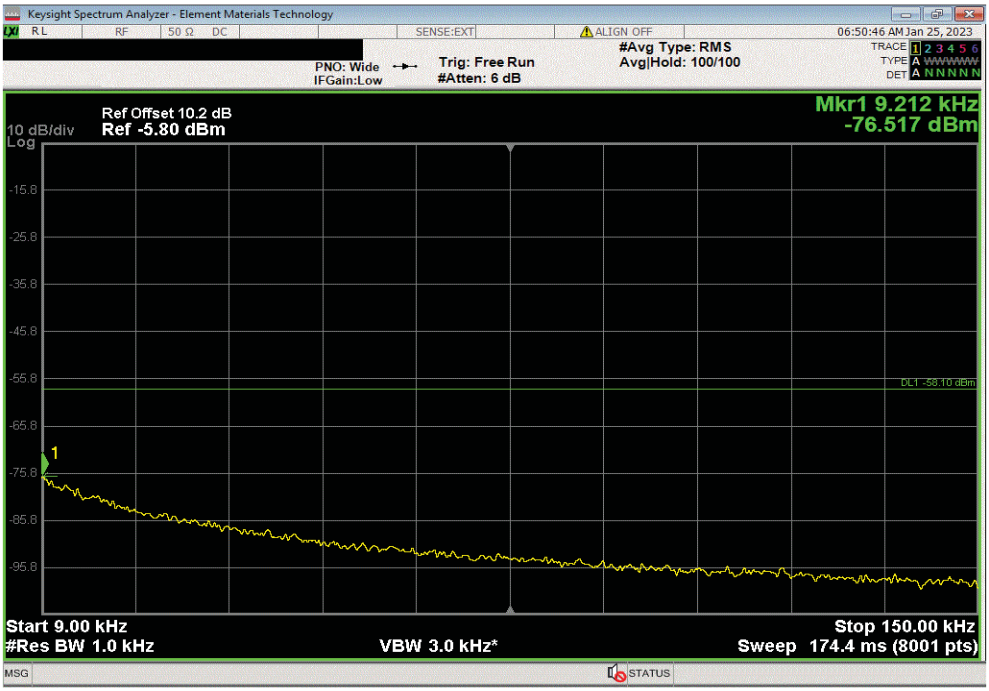
DEVIATIONS FROM TEST STANDARD

None

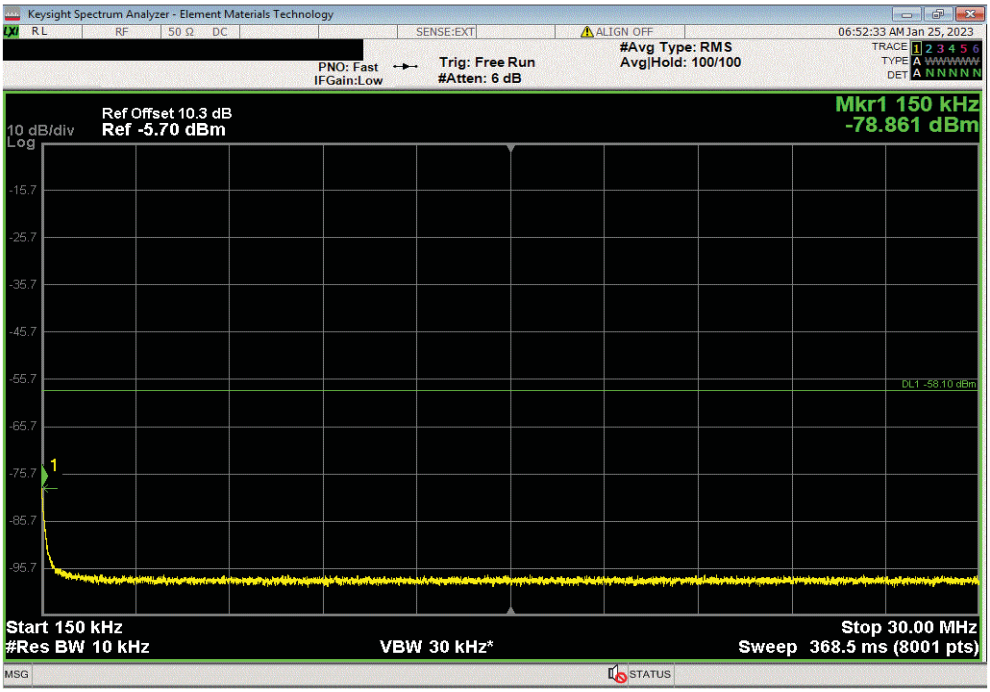
Configuration #	2,3,4,6,7	Signature

		Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
Worst Case Port						
	Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR					
	Configuration 1	9 kHz - 150 kHz	0.01	-76.5	-58.1	Pass
	Configuration 1	150 kHz - 30 MHz	0.15	-78.9	-58.1	Pass
	Configuration 1	30 MHz - 3.4 GHz	2976.22	-65.7	-58.1	Pass
	Configuration 1	4.03 GHz - 6 GHz	4429.91	-66.4	-58.1	Pass
	Configuration 1	3.1 GHz - 3.43 GHz	3429.67	-66.5	-58.1	Pass
	Configuration 1	3.57 GHz - 3.68 GHz	3668.45	-62.7	-58.1	Pass
	Configuration 1	4 GHz - 4.2 GHz	4003.8	-62.0	-58.1	Pass
	Configuration 1	3.4 GHz - 4.03 GHz	3448.5	-34.3	-31.1	Pass
	Configuration 1	6 GHz - 13 GHz	10418.75	-65.5	-58.1	Pass
	Configuration 1	13 GHz - 40 GHz	38855	-65.1	-58.1	Pass
	Configuration 2	9 kHz - 150 kHz	0.01	-76.9	-58.1	Pass
	Configuration 2	150 kHz - 30 MHz	0.31	-77.1	-58.1	Pass
	Configuration 2	30 MHz - 3.4 GHz	3336.39	-67.3	-58.1	Pass
	Configuration 2	4.03 GHz - 6 GHz	4754.22	-66.6	-58.1	Pass
	Configuration 2	3.1 GHz - 3.43 GHz	3346.84	-66.2	-58.1	Pass
	Configuration 2	3.57 GHz - 3.68 GHz	3670.98	-62.1	-58.1	Pass
	Configuration 2	4 GHz - 4.2 GHz	4005.6	-64.6	-58.1	Pass
	Configuration 2	3.4 GHz - 4.03 GHz	3860.05	-33.6	-31.1	Pass
	Configuration 2	6 GHz - 13 GHz	7655.15	-66.3	-58.1	Pass
	Configuration 2	13 GHz - 40 GHz	38842	-64.4	-58.1	Pass
	Configuration 3	9 kHz - 150 kHz	0.01	-77.2	-58.1	Pass
	Configuration 3	150 kHz - 30 MHz	0.15	-79.1	-58.1	Pass
	Configuration 3	30 MHz - 3.4 GHz	3166.63	-67.4	-58.1	Pass
	Configuration 3	4.03 GHz - 6 GHz	4735.75	-66.5	-58.1	Pass
	Configuration 3	3.1 GHz - 3.43 GHz	3428.02	-69.3	-58.1	Pass
	Configuration 3	3.57 GHz - 3.68 GHz	3672.19	-62.3	-58.1	Pass
	Configuration 3	4 GHz - 4.2 GHz	4005.2	-63.1	-58.1	Pass
	Configuration 3	3.4 GHz - 4.03 GHz	3860.05	-33.9	-31.1	Pass
	Configuration 3	6 GHz - 13 GHz	10632.6	-66.3	-58.1	Pass
	Configuration 3	13 GHz - 40 GHz	38855	-64.6	-58.1	Pass
	Configuration 4	9 kHz - 150 kHz	0.01	-76.1	-58.1	Pass
	Configuration 4	150 kHz - 30 MHz	0.15	-79.0	-58.1	Pass
	Configuration 4	30 MHz - 3.4 GHz	3295.11	-67.4	-58.1	Pass
	Configuration 4	4.03 GHz - 6 GHz	4749.05	-66.5	-58.1	Pass
	Configuration 4	3.1 GHz - 3.43 GHz	3298.33	-69.4	-58.1	Pass
	Configuration 4	3.57 GHz - 3.68 GHz	3672.41	-61.7	-58.1	Pass
	Configuration 4	4 GHz - 4.2 GHz	4013	-64.3	-58.1	Pass
	Configuration 4	3.4 GHz - 4.03 GHz	3859.89	-34.6	-31.1	Pass
	Configuration 4	6 GHz - 13 GHz	7234.45	-66.3	-58.1	Pass
	Configuration 4	13 GHz - 40 GHz	38884	-64.7	-58.1	Pass
	Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR					
	Configuration 1	9 kHz - 150 kHz	0.01	-76.6	-58.1	Pass
	Configuration 1	150 kHz - 30 MHz	0.31	-76.4	-58.1	Pass
	Configuration 1	30 MHz - 3.4 GHz	3305.22	-67.3	-58.1	Pass
	Configuration 1	4.03 GHz - 6 GHz	5051.45	-66.3	-58.1	Pass
	Configuration 1	3.1 GHz - 3.43 GHz	3249.16	-69.8	-58.1	Pass
	Configuration 1	3.57 GHz - 3.68 GHz	3671.31	-62.2	-58.1	Pass
	Configuration 1	4 GHz - 4.2 GHz	4004.6	-64.6	-58.1	Pass
	Configuration 1	3.4 GHz - 4.03 GHz	3860.05	-33.8	-31.1	Pass
	Configuration 1	6 GHz - 13 GHz	10572.75	-66.4	-58.1	Pass
	Configuration 1	13 GHz - 40 GHz	38838	-65.1	-58.1	Pass
	Configuration 2	9 kHz - 150 kHz	0.01	-76.8	-58.1	Pass
	Configuration 2	150 kHz - 30 MHz	0.31	-76.7	-58.1	Pass
	Configuration 2	30 MHz - 3.4 GHz	3218.02	-67.5	-58.1	Pass
	Configuration 2	4.03 GHz - 6 GHz	4744.62	-66.3	-58.1	Pass
	Configuration 2	3.1 GHz - 3.43 GHz	3272.92	-69.6	-58.1	Pass
	Configuration 2	3.57 GHz - 3.68 GHz	3672.3	-62.6	-58.1	Pass
	Configuration 2	4 GHz - 4.2 GHz	4005.4	-63.2	-58.1	Pass
	Configuration 2	3.4 GHz - 4.03 GHz	3860.52	-33.3	-31.1	Pass
	Configuration 2	6 GHz - 13 GHz	10610.55	-66.4	-58.1	Pass
	Configuration 2	13 GHz - 40 GHz	38882	-64.9	-58.1	Pass
	Configuration 3	9 kHz - 150 kHz	0.01	-77.0	-58.1	Pass
	Configuration 3	150 kHz - 30 MHz	0.15	-78.3	-58.1	Pass
	Configuration 3	30 MHz - 3.4 GHz	3228.13	-67.6	-58.1	Pass
	Configuration 3	4.03 GHz - 6 GHz	4742.4	-66.6	-58.1	Pass
	Configuration 3	3.1 GHz - 3.43 GHz	3220.45	-69.8	-58.1	Pass
	Configuration 3	3.57 GHz - 3.68 GHz	3674.61	-61.4	-58.1	Pass
	Configuration 3	4 GHz - 4.2 GHz	4008	-64.4	-58.1	Pass
	Configuration 3	3.4 GHz - 4.03 GHz	3500	-34.1	-31.1	Pass
	Configuration 3	6 GHz - 13 GHz	9782.8	-65.9	-58.1	Pass
	Configuration 3	13 GHz - 40 GHz	38884	-65.7	-58.1	Pass
	Configuration 4	9 kHz - 150 kHz	0.01	-77.3	-58.1	Pass
	Configuration 4	150 kHz - 30 MHz	0.15	-78.6	-58.1	Pass
	Configuration 4	30 MHz - 3.4 GHz	3195.27	-67.6	-58.1	Pass
	Configuration 4	4.03 GHz - 6 GHz	4755.45	-66.3	-58.1	Pass
	Configuration 4	3.1 GHz - 3.43 GHz	3122.11	-69.7	-58.1	Pass
	Configuration 4	3.57 GHz - 3.68 GHz	3673.4	-63.2	-58.1	Pass
	Configuration 4	4 GHz - 4.2 GHz	4006.2	-62.6	-58.1	Pass
	Configuration 4	3.4 GHz - 4.03 GHz	3500	-35.9	-31.1	Pass
	Configuration 4	6 GHz - 13 GHz	10554.9	-66.2	-58.1	Pass
	Configuration 4	13 GHz - 40 GHz	38842	-65.2	-58.1	Pass

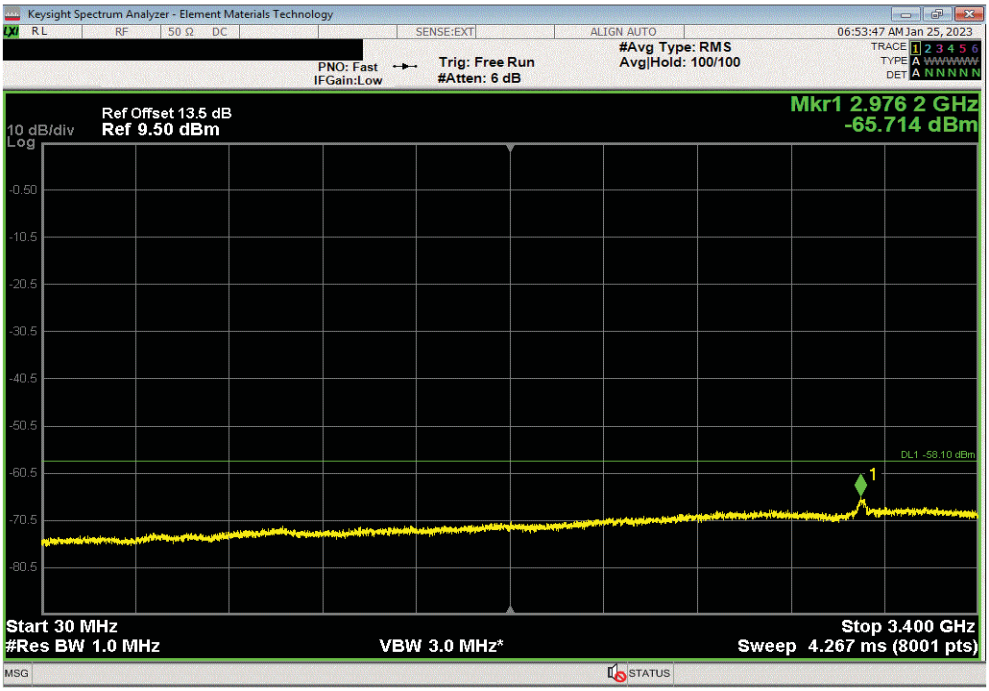
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 1					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	9 kHz - 150 kHz	0.01	-76.52	-58.1	Pass



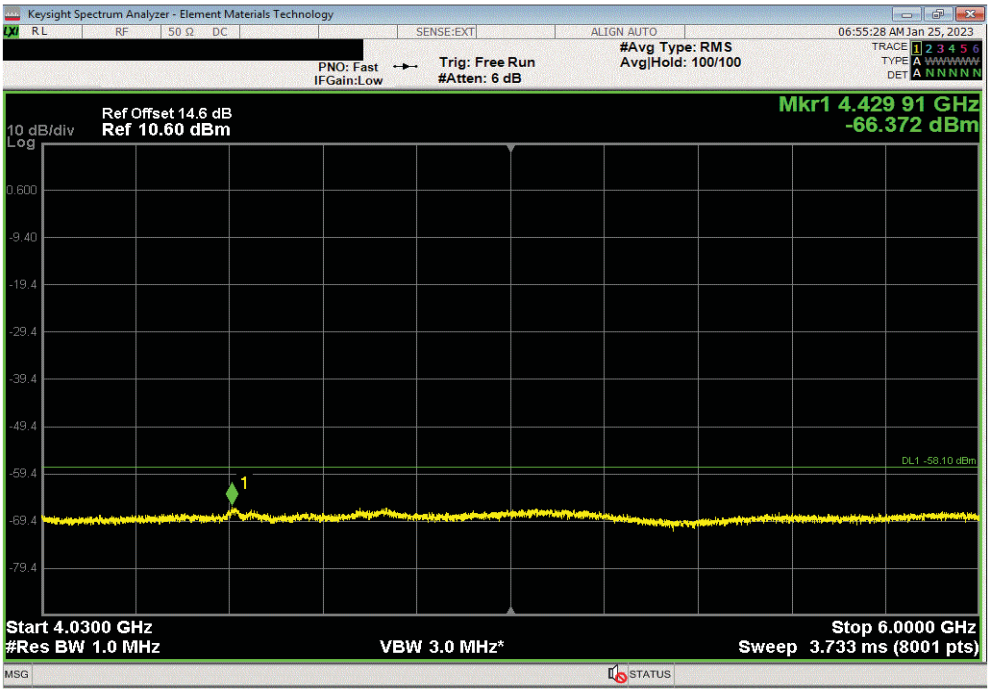
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 1					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	150 kHz - 30 MHz	0.15	-78.86	-58.1	Pass



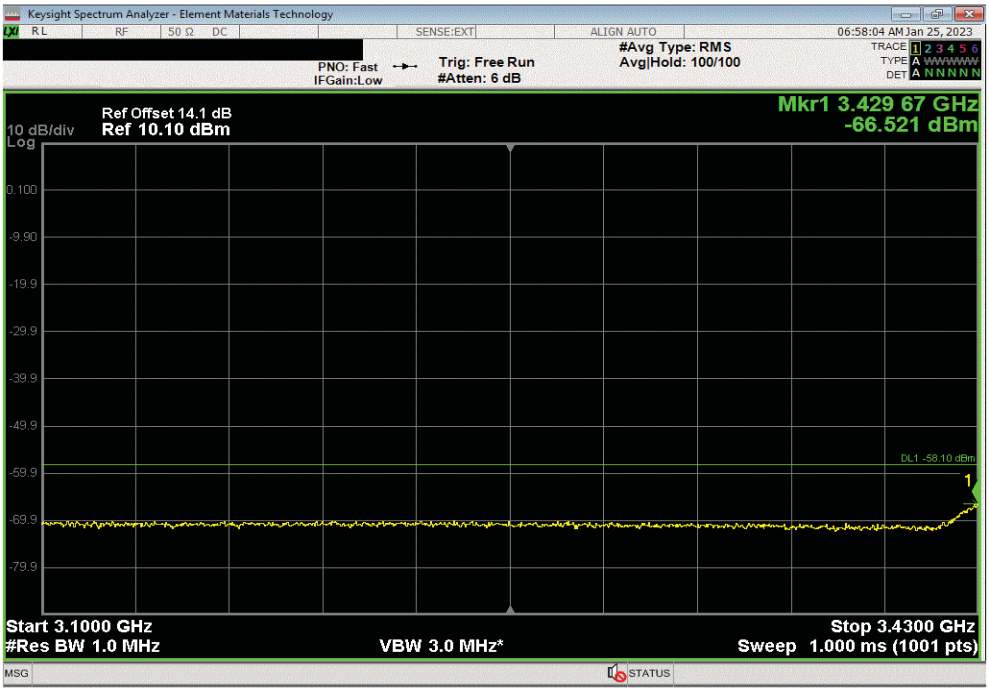
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 1				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
30 MHz - 3.4 GHz	2976.22	-65.71	-58.1	Pass



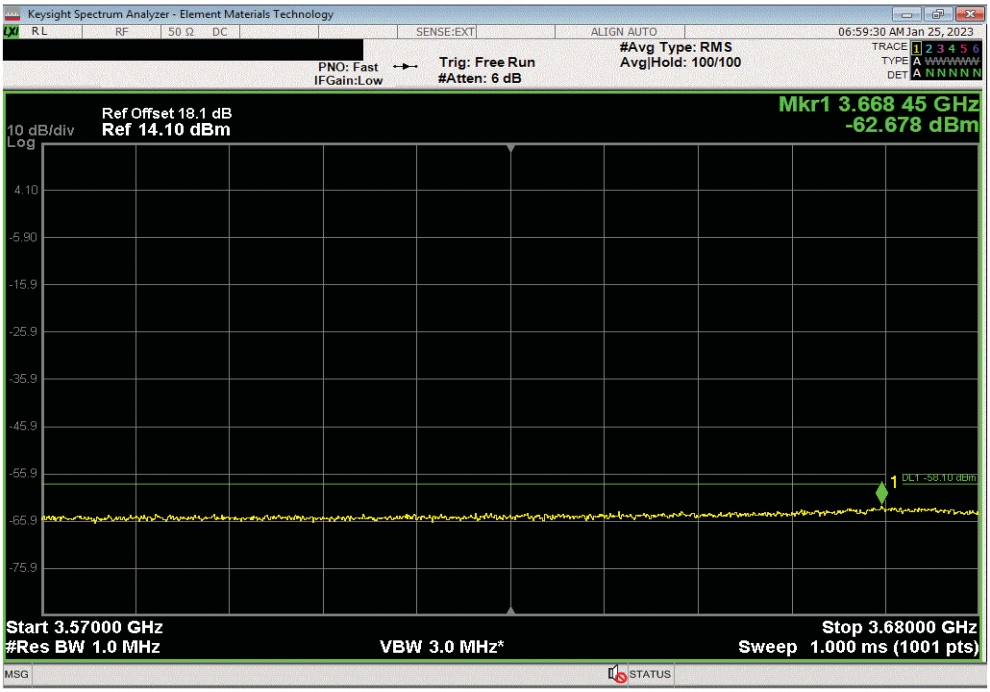
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 1				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
4.03 GHz - 6 GHz	4429.91	-66.37	-58.1	Pass



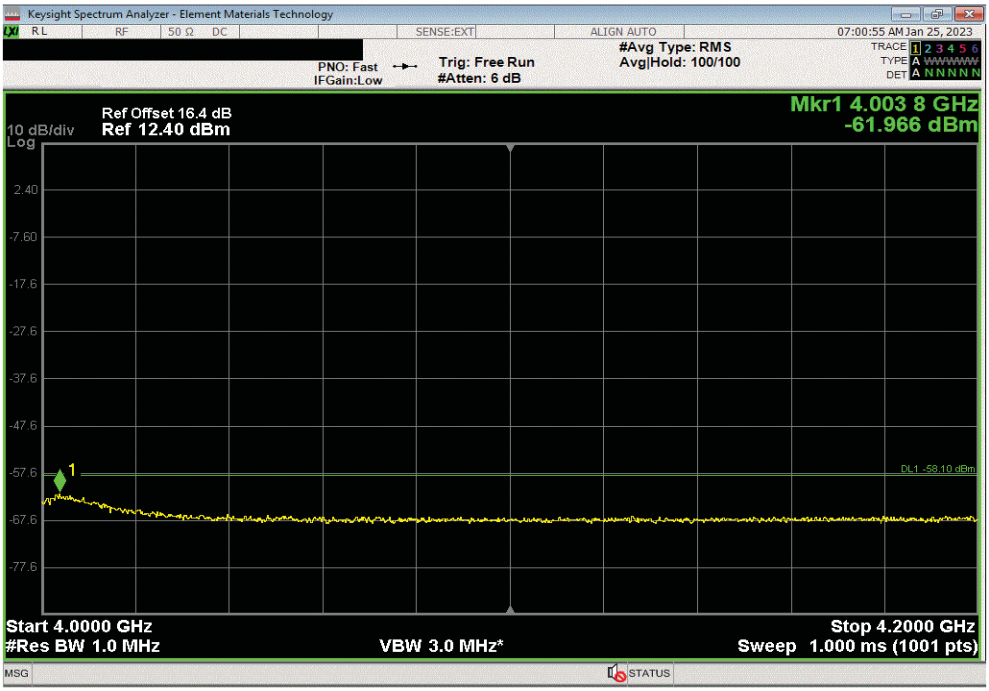
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 1				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.1 GHz - 3.43 GHz	3429.67	-66.52	-58.1	Pass



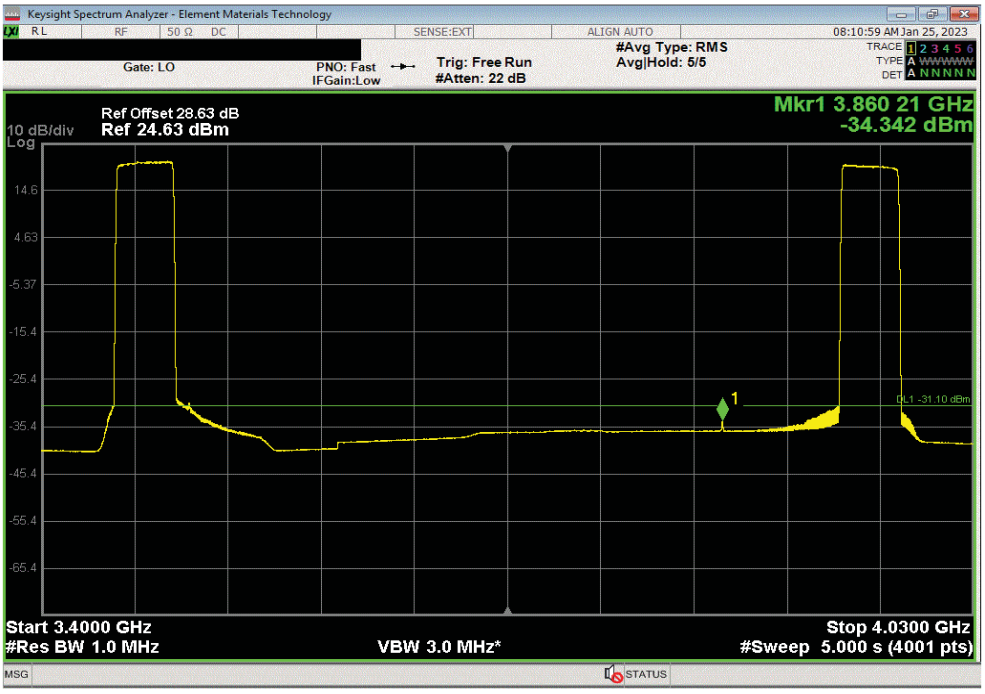
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 1				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.57 GHz - 3.68 GHz	3668.45	-62.68	-58.1	Pass



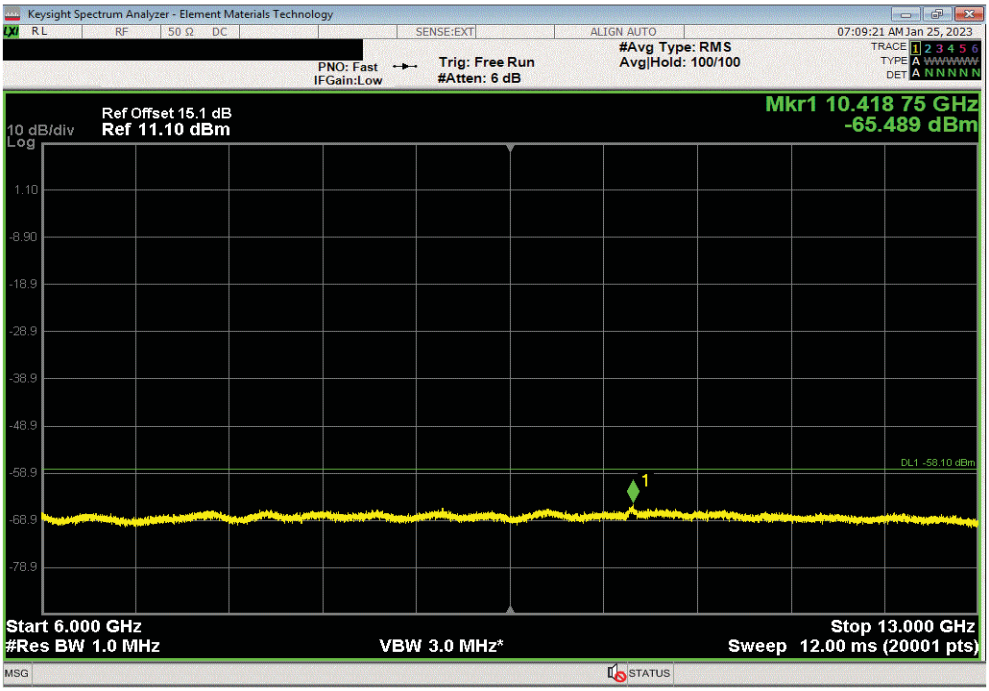
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 1					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	4 GHz - 4.2 GHz	4003.8	-61.97	-58.1	Pass



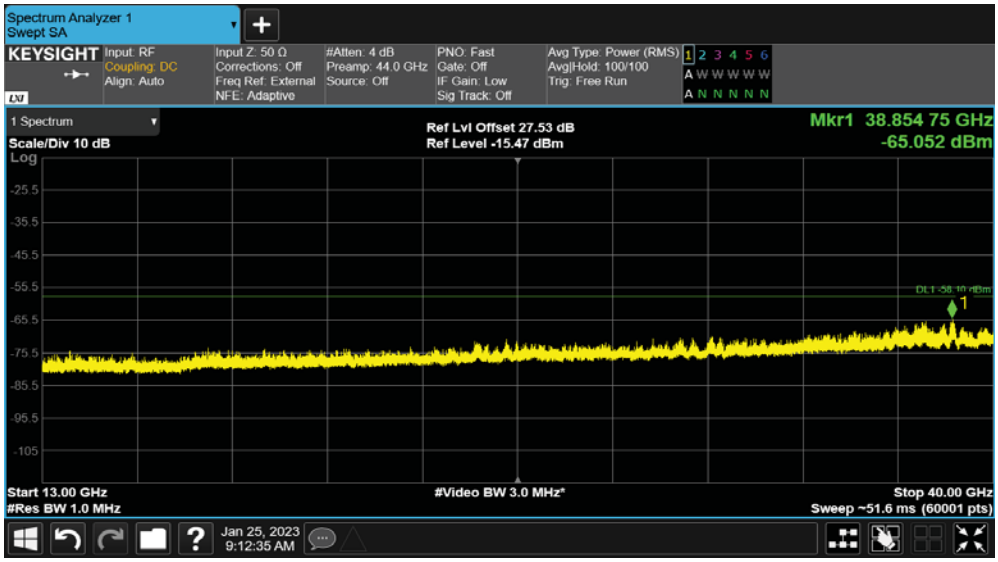
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 1					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	3.4 GHz - 4.03 GHz	3448.5	-34.3	-31.1	Pass



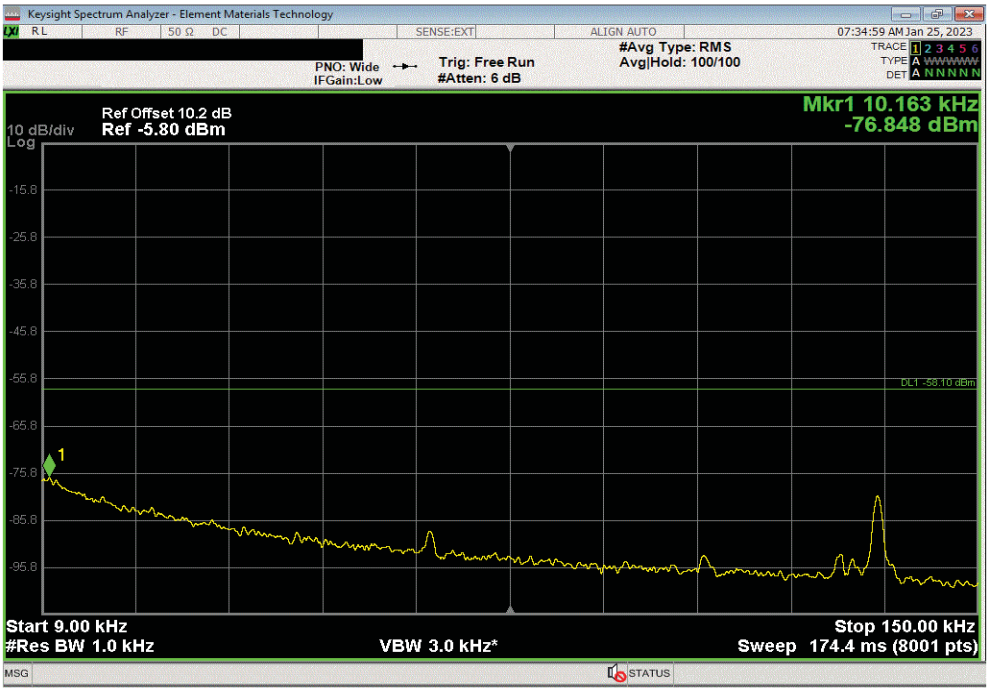
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 1					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	6 GHz - 13 GHz	10418.75	-65.49	-58.1	Pass



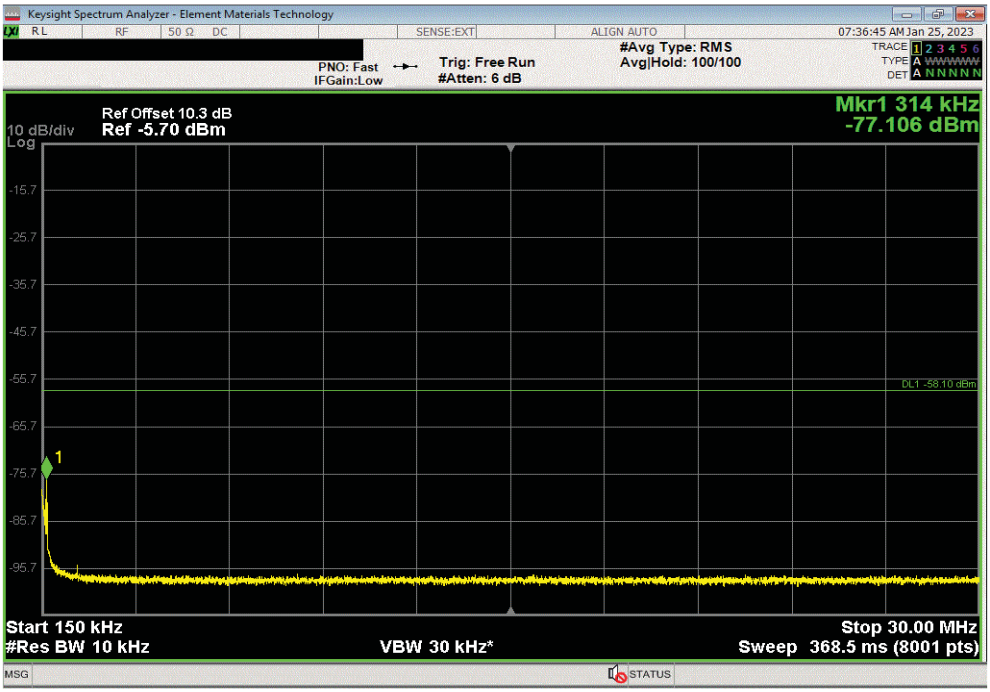
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 1					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	13 GHz - 40 GHz	38855	-65.052	-58.1	Pass



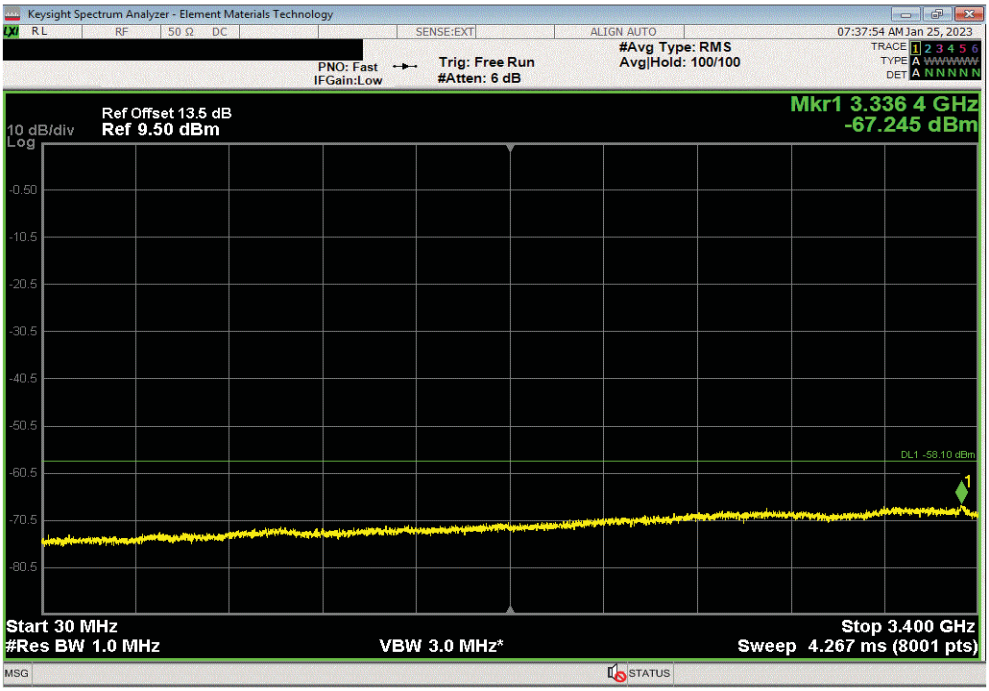
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 2					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	9 kHz - 150 kHz	0.01	-76.85	-58.1	Pass



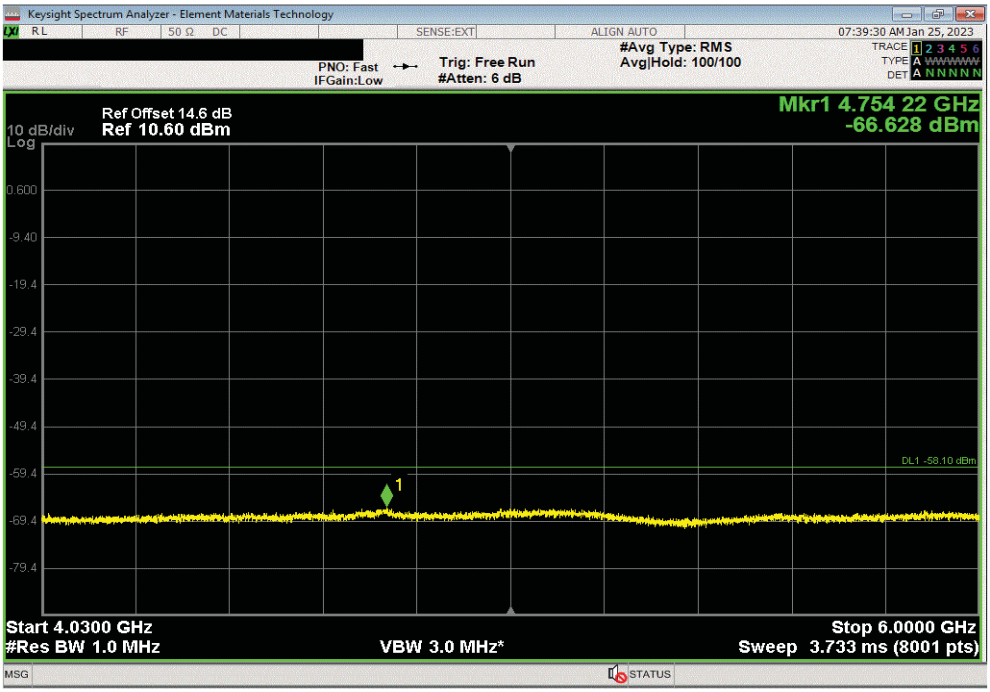
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 2					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	150 kHz - 30 MHz	0.31	-77.11	-58.1	Pass



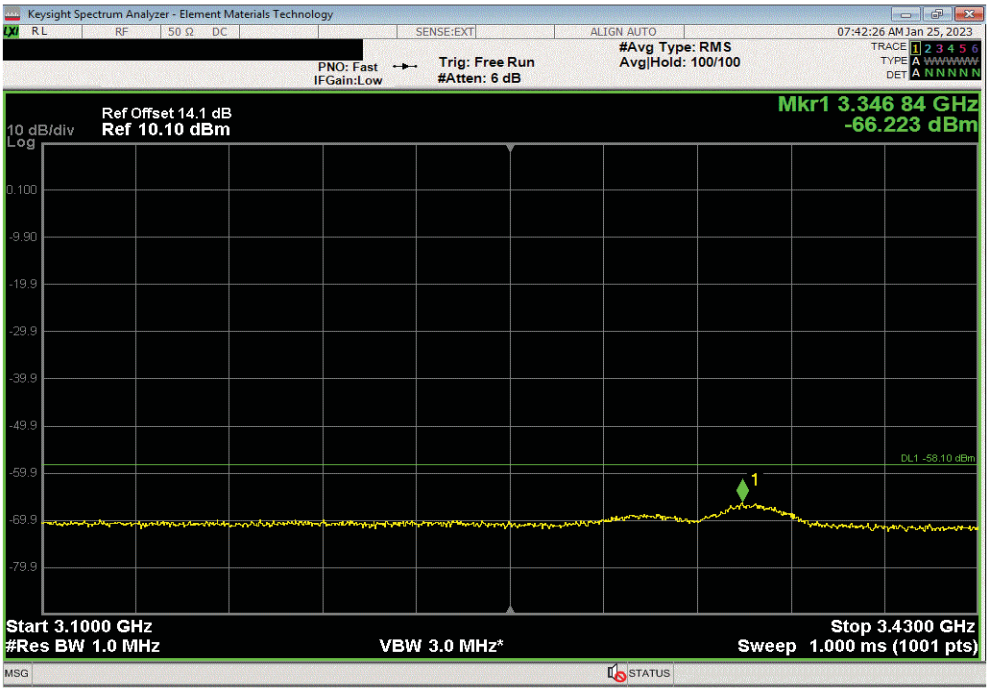
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 2				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
30 MHz - 3.4 GHz	3336.39	-67.25	-58.1	Pass



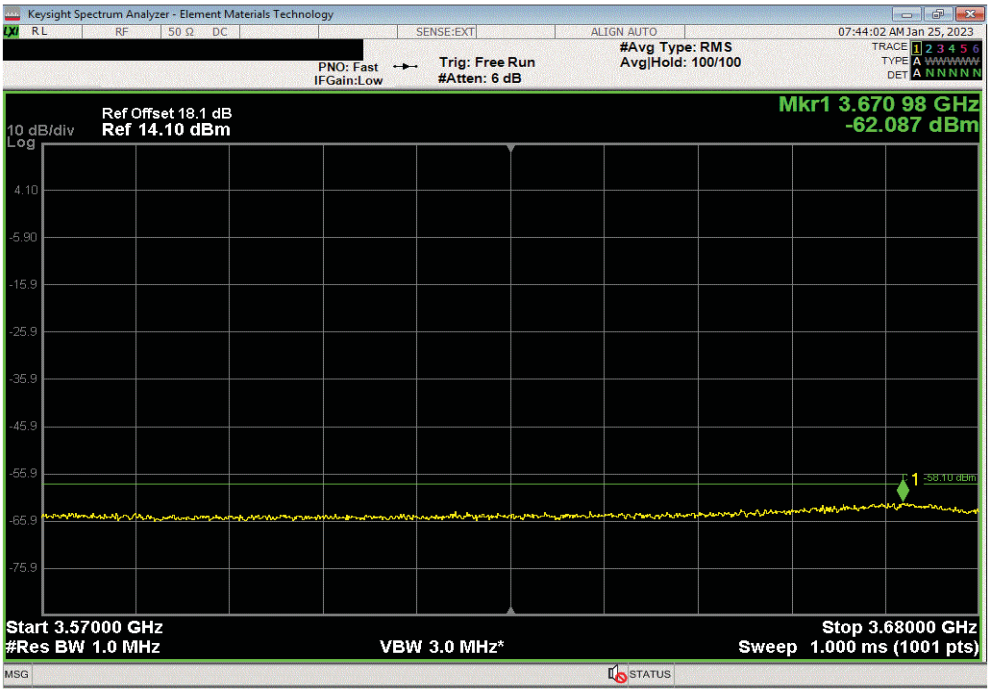
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 2				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
4.03 GHz - 6 GHz	4754.22	-66.63	-58.1	Pass



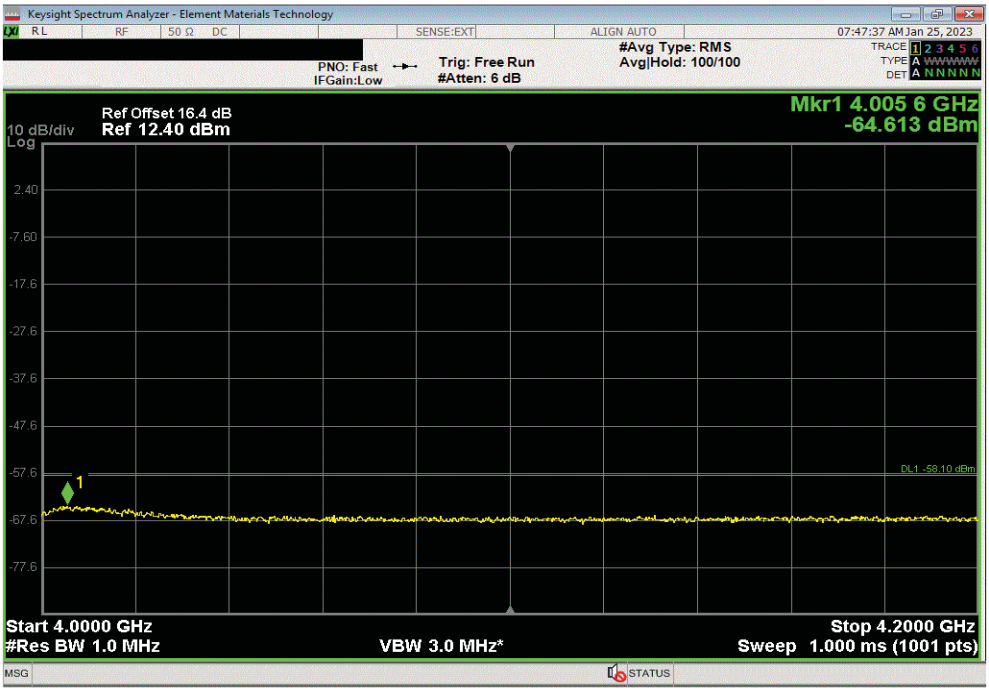
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 2				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.1 GHz - 3.43 GHz	3346.84	-66.22	-58.1	Pass



Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 2				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.57 GHz - 3.68 GHz	3670.98	-62.09	-58.1	Pass

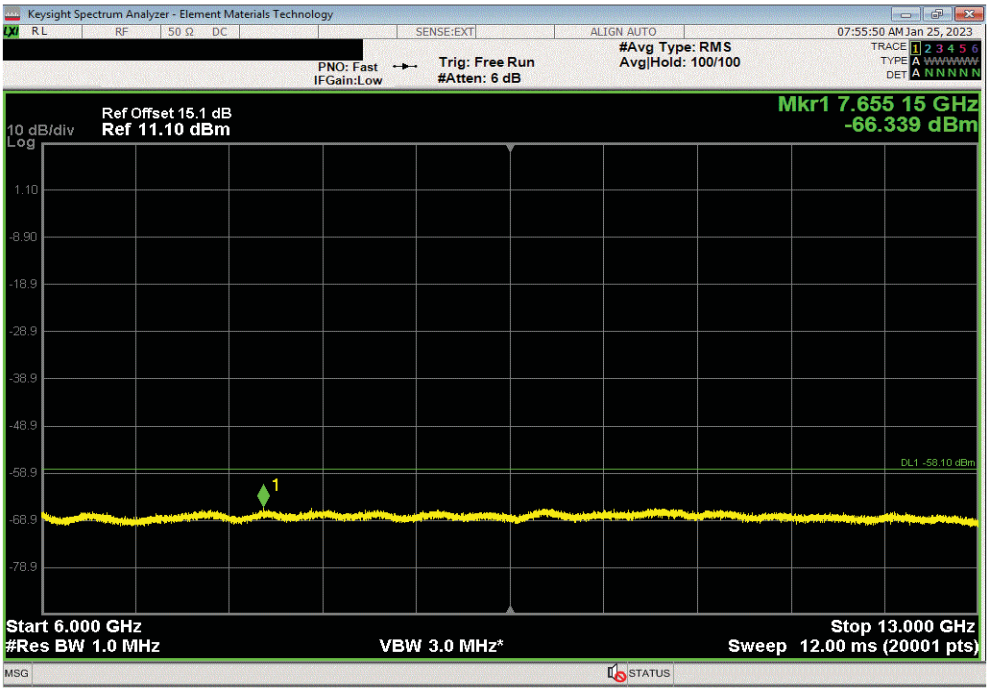


Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 2					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	4 GHz - 4.2 GHz	4005.6	-64.61	-58.1	Pass

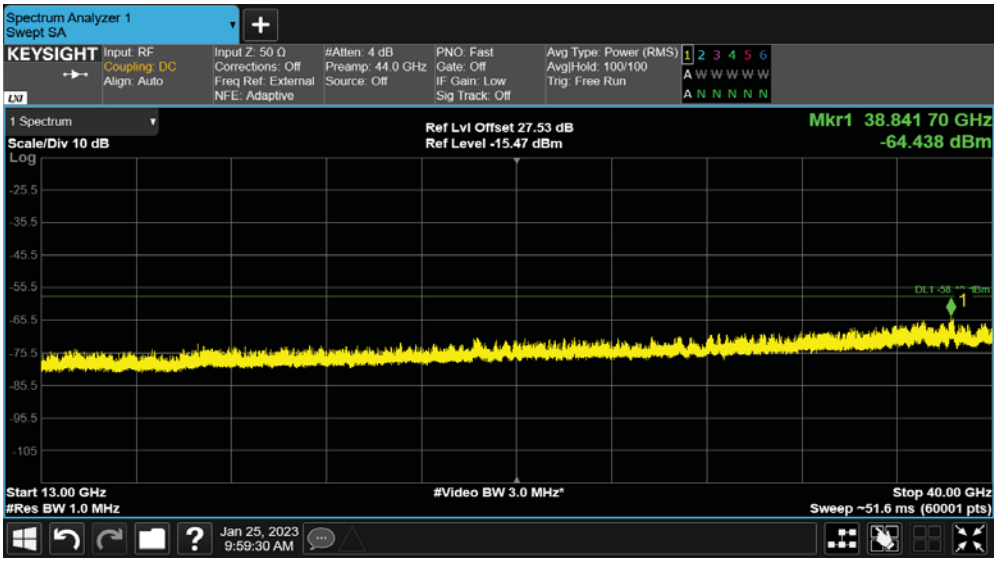


Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 2					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	3.4 GHz - 4.03 GHz	3860.05	-33.59	-31.1	Pass

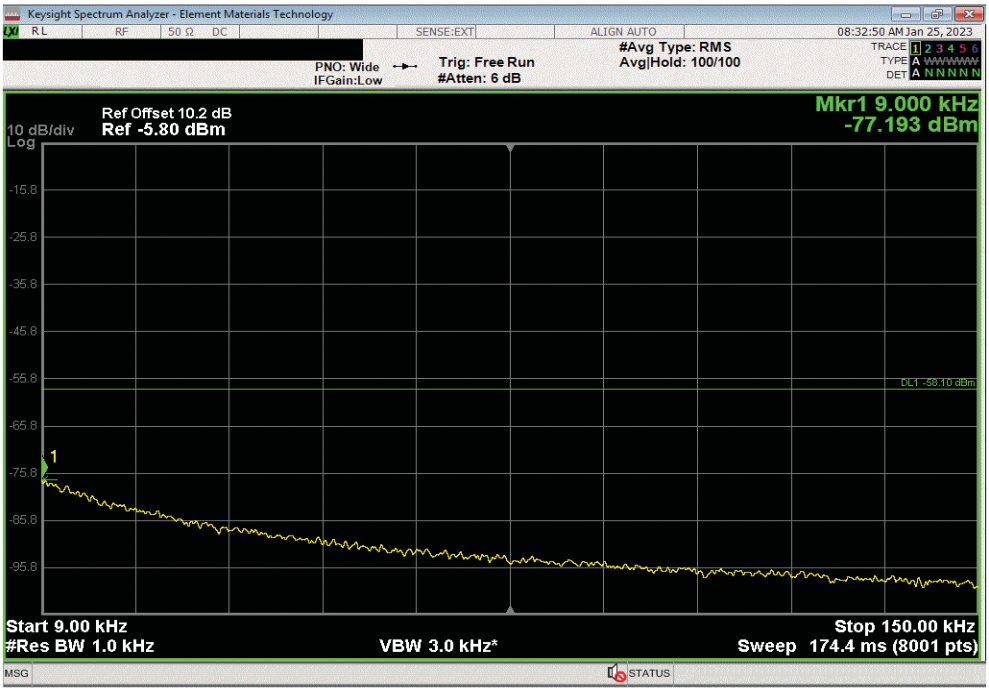
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 2				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
6 GHz - 13 GHz	7655.15	-66.34	-58.1	Pass



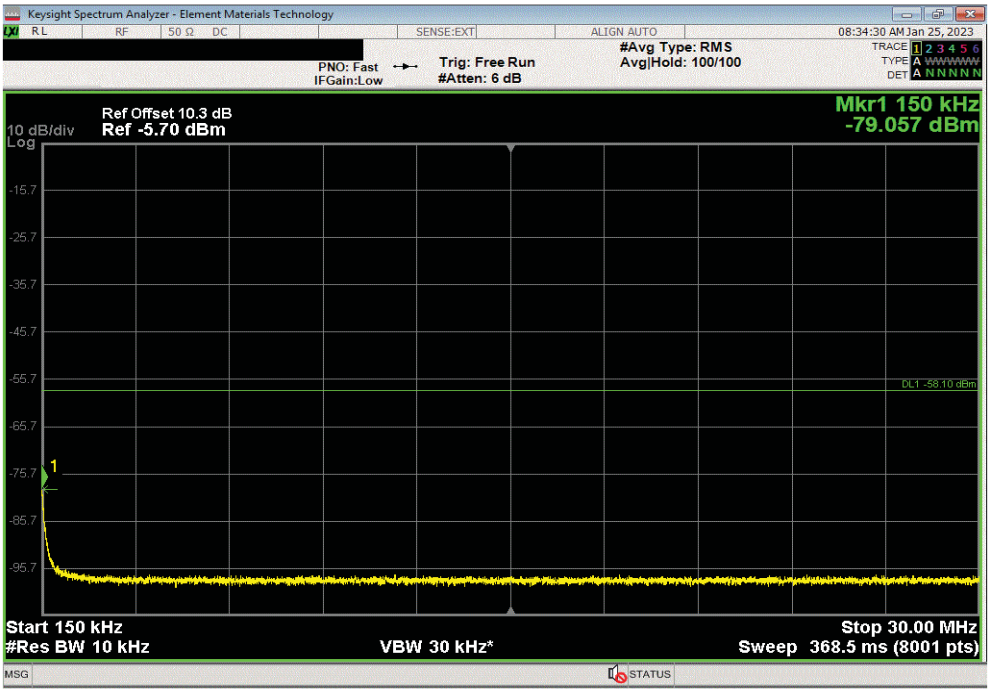
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 2				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
13 GHz - 40 GHz	38842	-64.44	-58.1	Pass



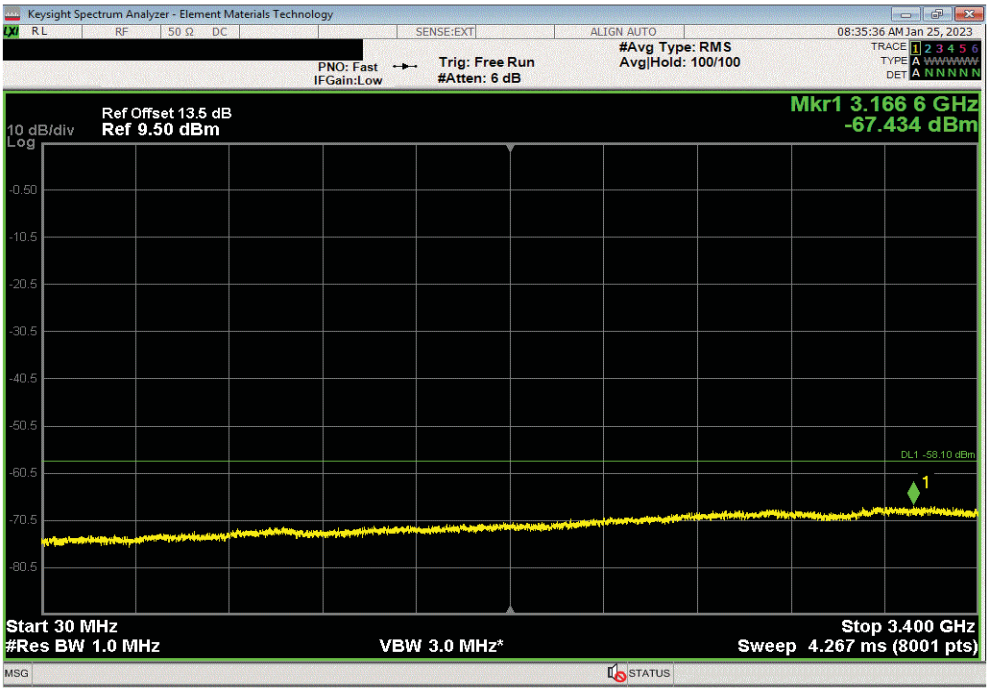
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 3					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	9 kHz - 150 kHz	0.01	-77.19	-58.1	Pass



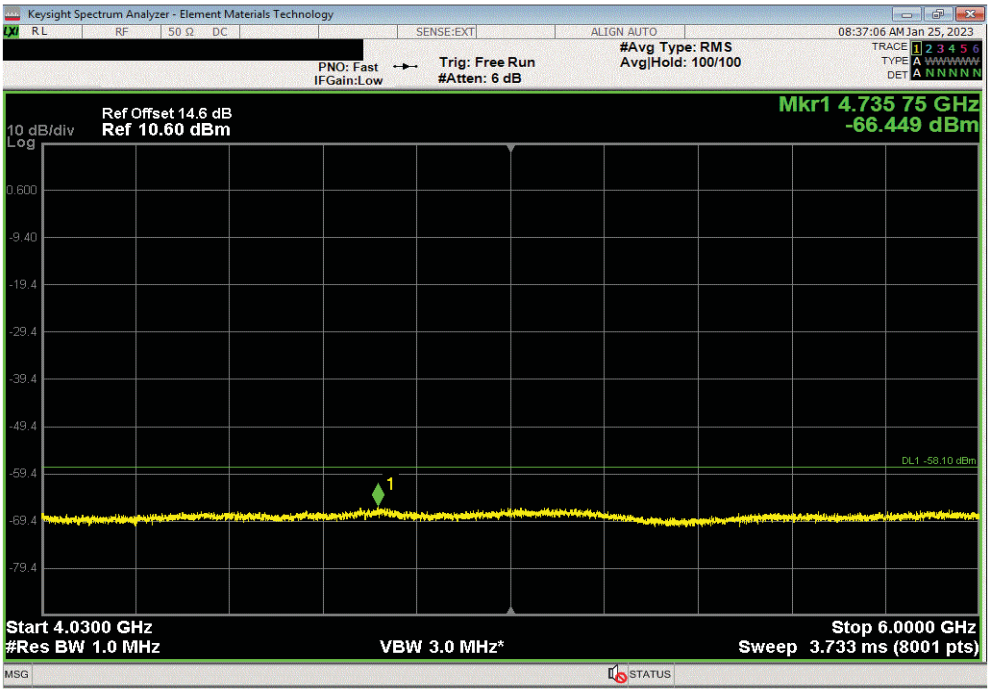
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 3				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
150 kHz - 30 MHz	0.15	-79.06	-58.1	Pass



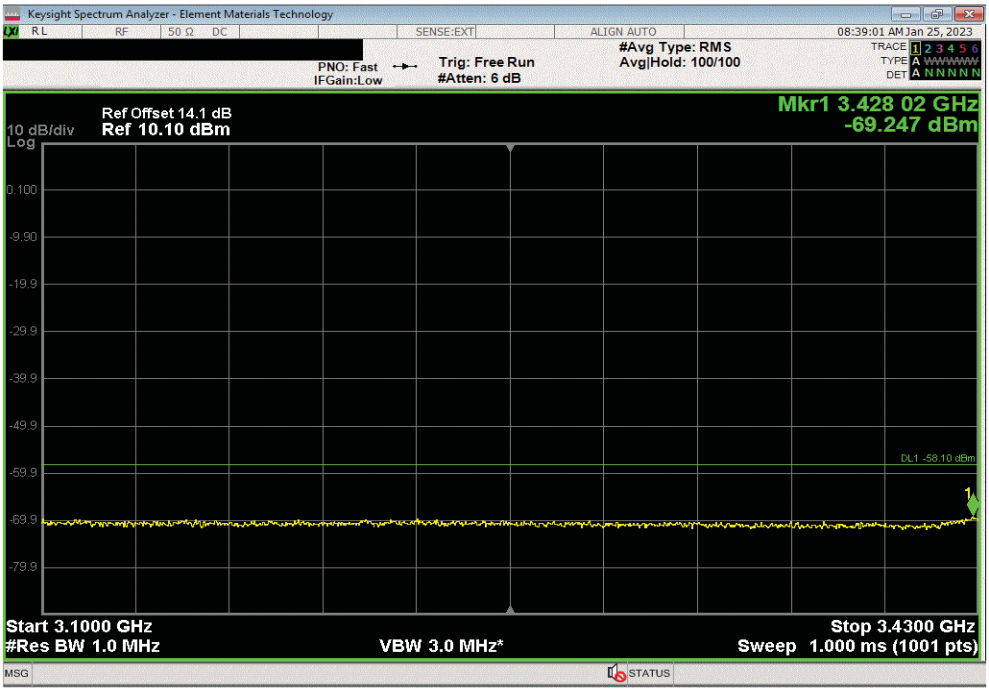
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 3				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
30 MHz - 3.4 GHz	3166.63	-67.43	-58.1	Pass



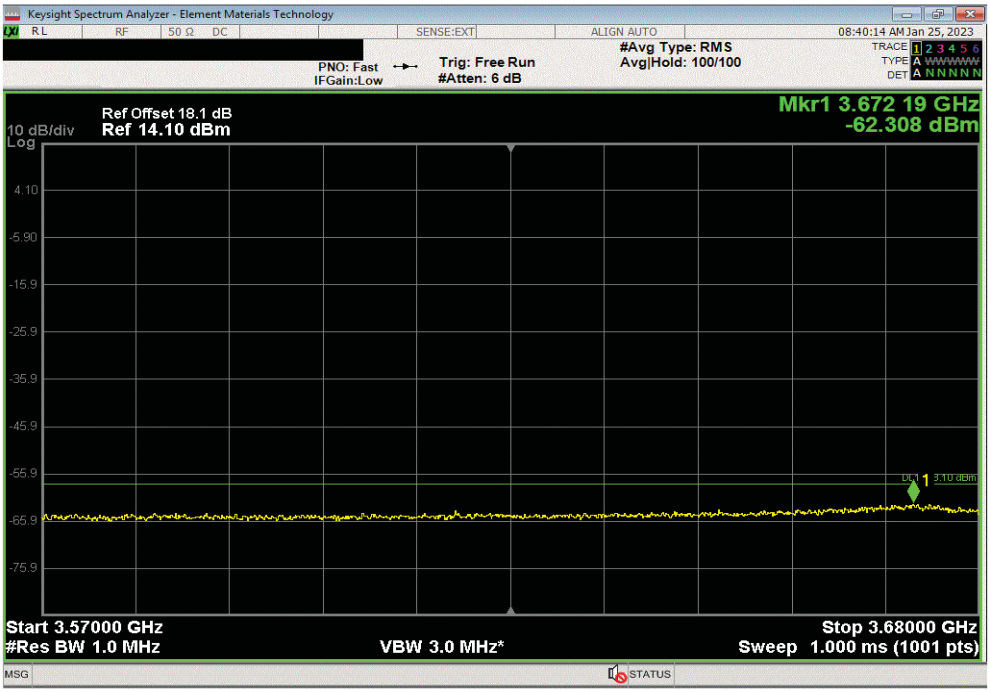
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 3				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
4.03 GHz - 6 GHz	4735.75	-66.45	-58.1	Pass



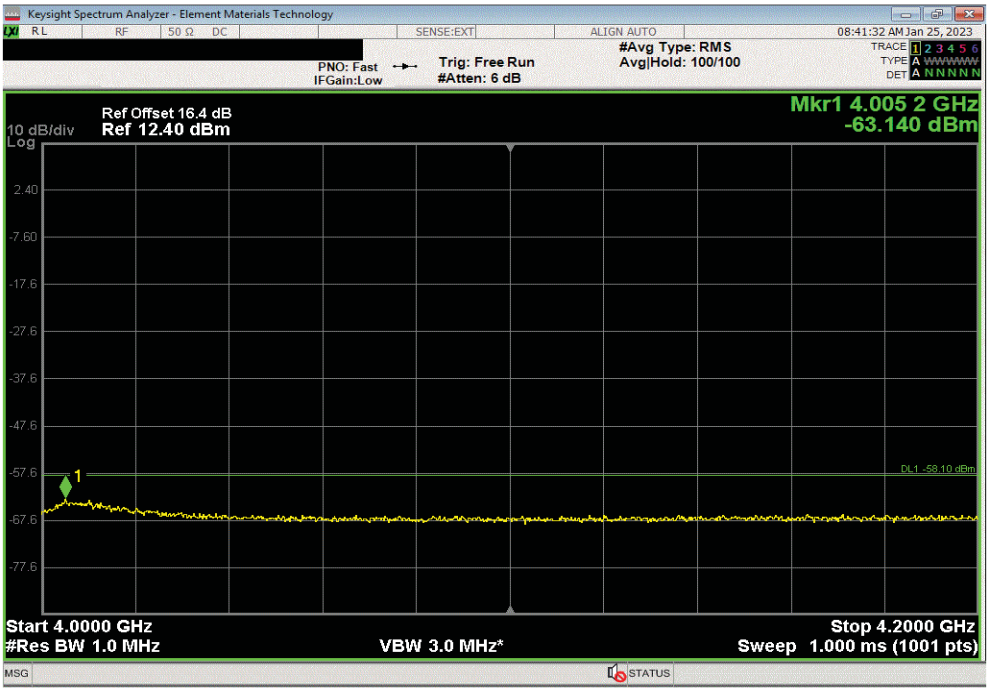
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 3				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.1 GHz - 3.43 GHz	3428.02	-69.25	-58.1	Pass



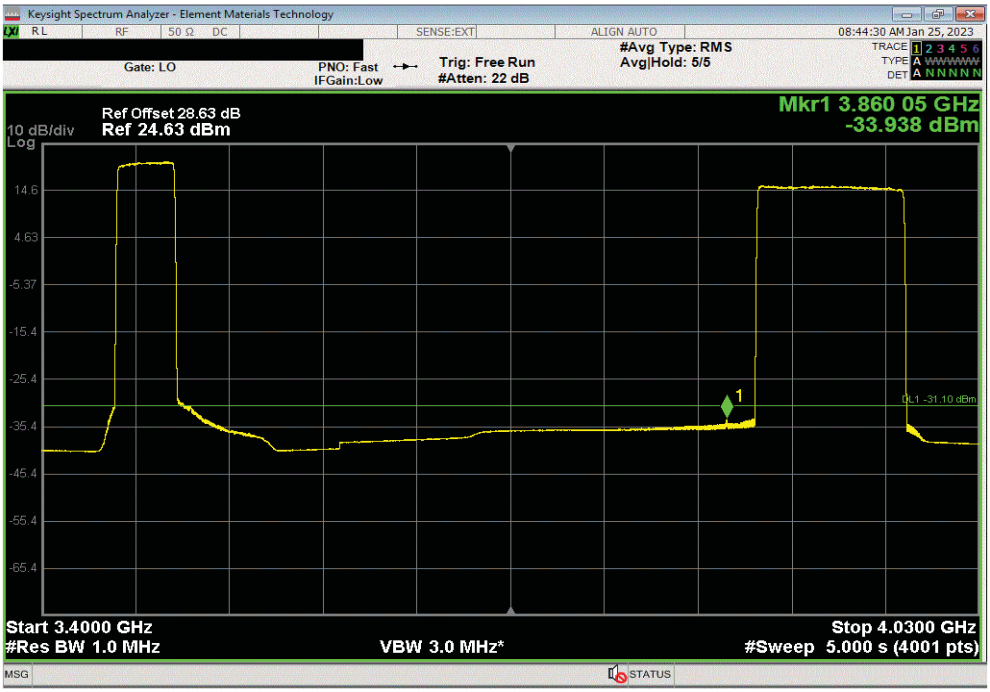
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 3				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.57 GHz - 3.68 GHz	3672.19	-62.31	-58.1	Pass



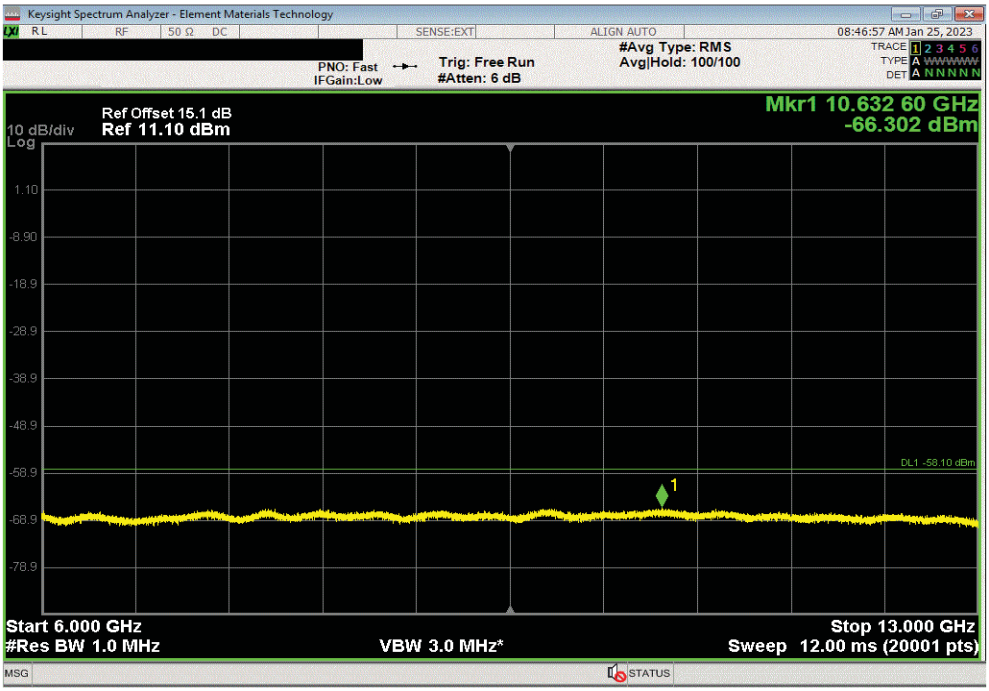
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 3					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	4 GHz - 4.2 GHz	4005.2	-63.14	-58.1	Pass



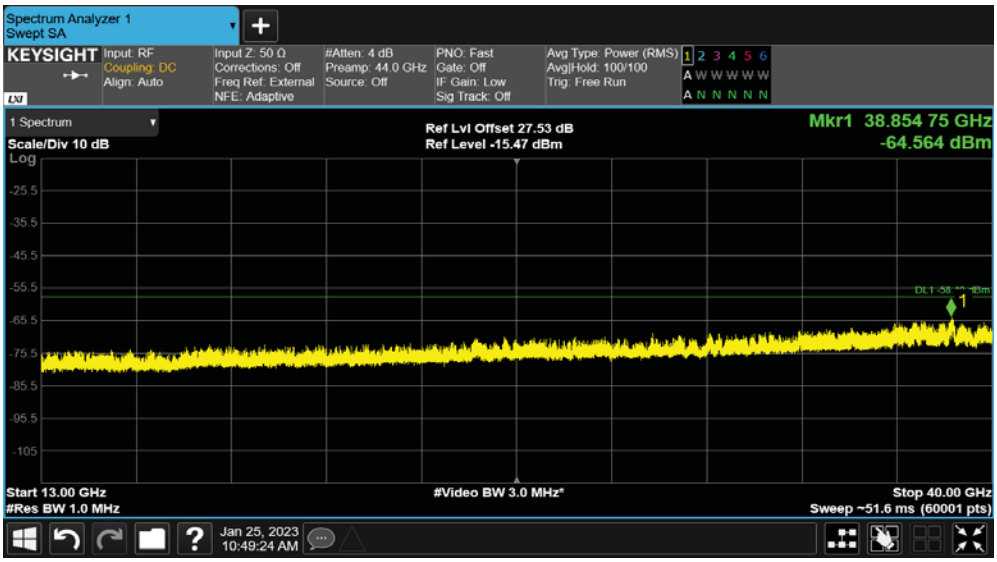
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 3				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.4 GHz - 4.03 GHz	3860.05	-33.94	-31.1	Pass



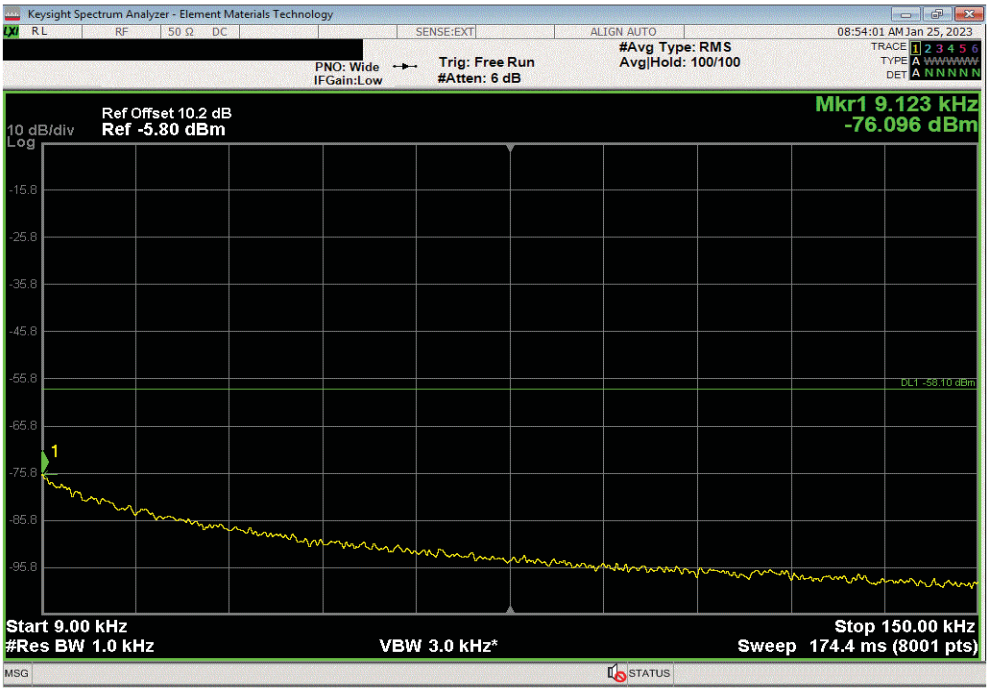
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 3					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	6 GHz - 13 GHz	10632.6	-66.3	-58.1	Pass



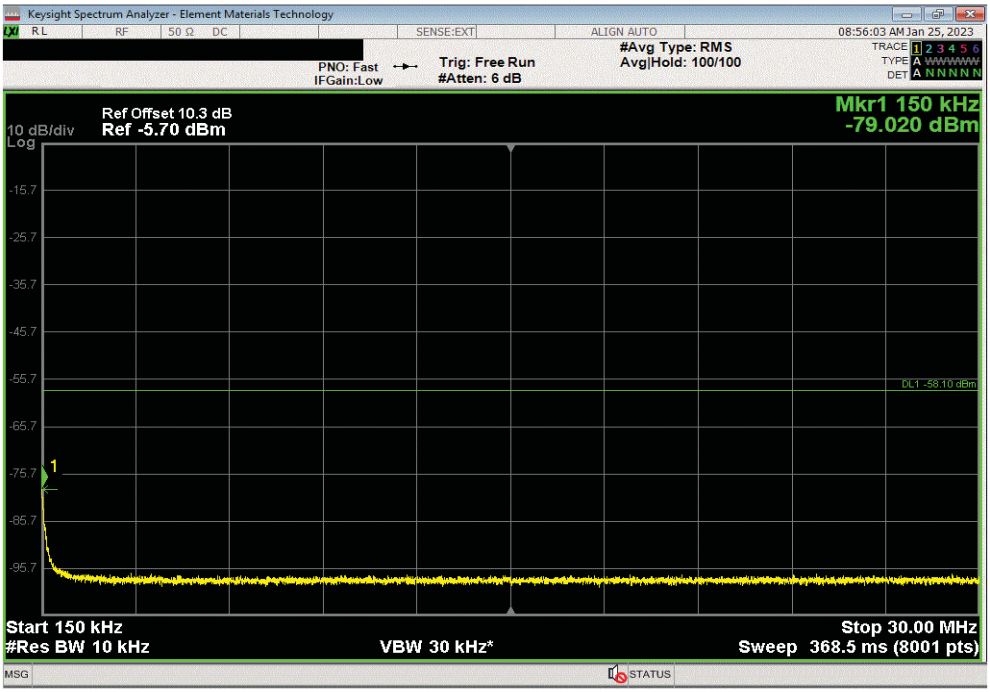
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 3					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	13 GHz - 40 GHz	38855	-64.564	-58.1	Pass



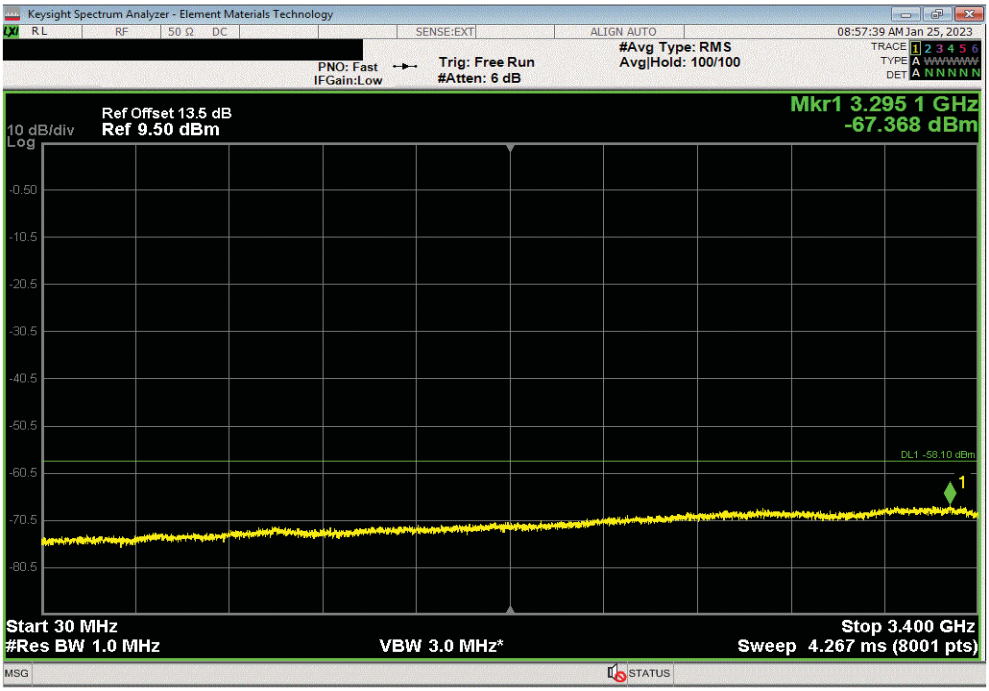
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 4					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	9 kHz - 150 kHz	0.01	-76.1	-58.1	Pass



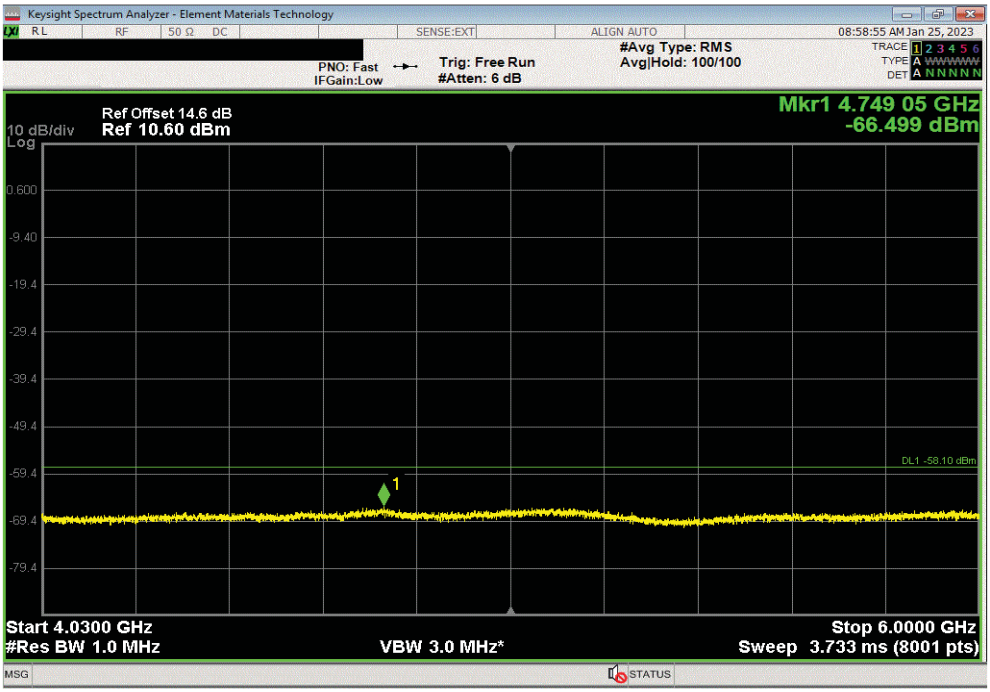
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 4					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	150 kHz - 30 MHz	0.15	-79.02	-58.1	Pass



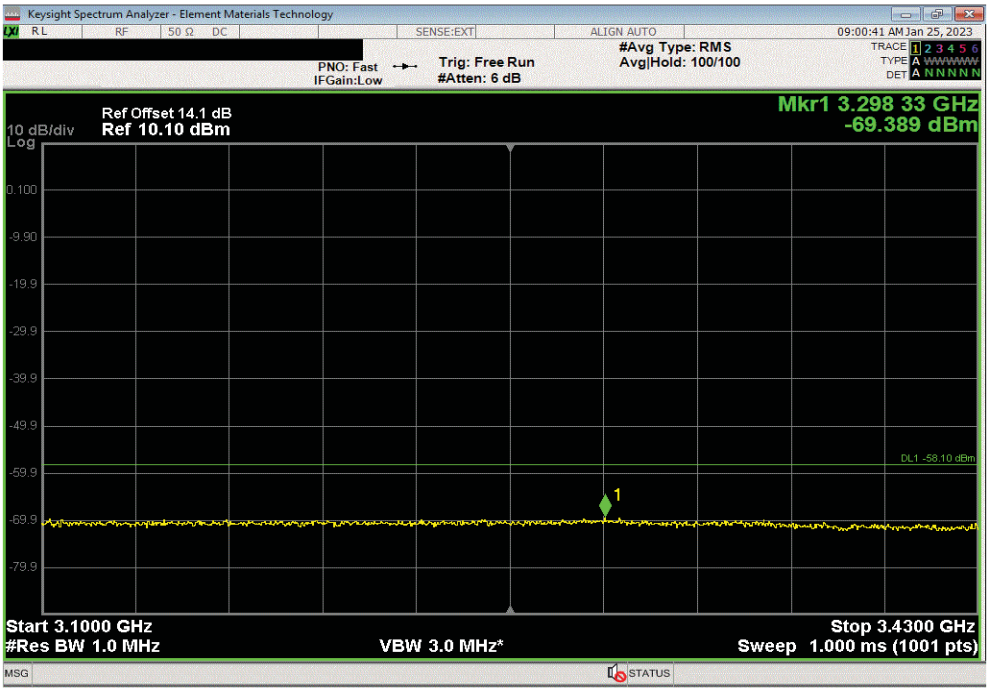
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 4				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
30 MHz - 3.4 GHz	3295.11	-67.37	-58.1	Pass



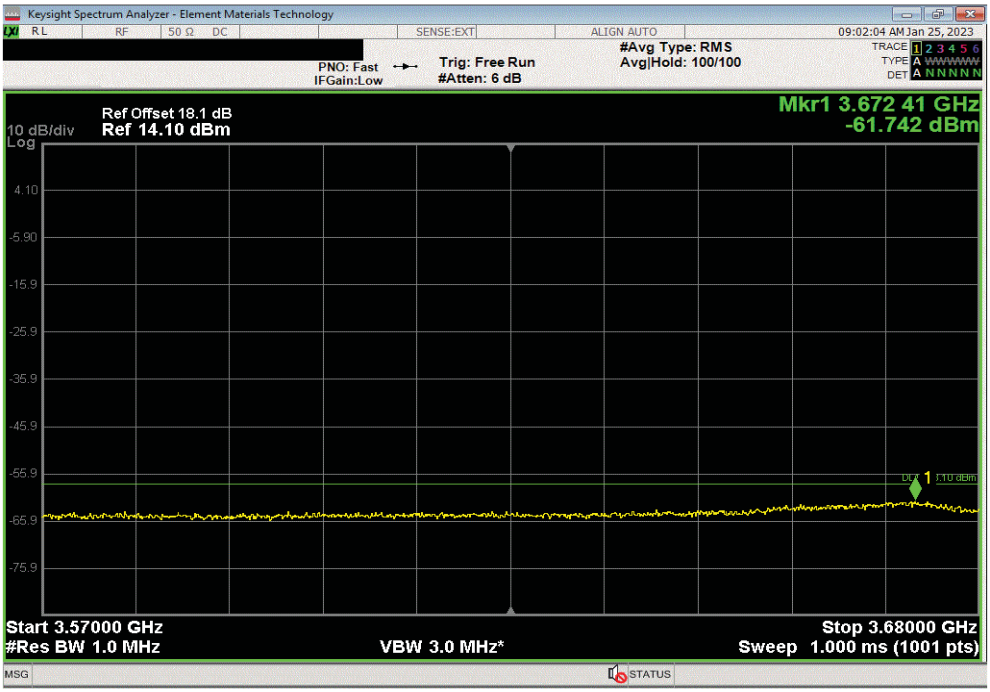
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 4				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
4.03 GHz - 6 GHz	4749.05	-66.5	-58.1	Pass



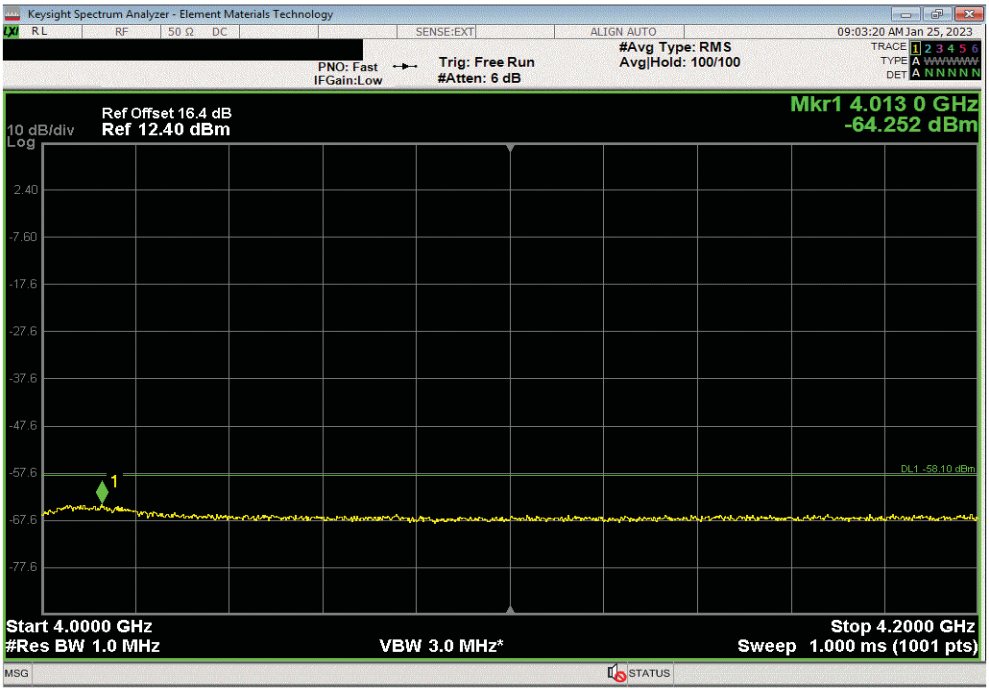
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 4				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.1 GHz - 3.43 GHz	3298.33	-69.39	-58.1	Pass



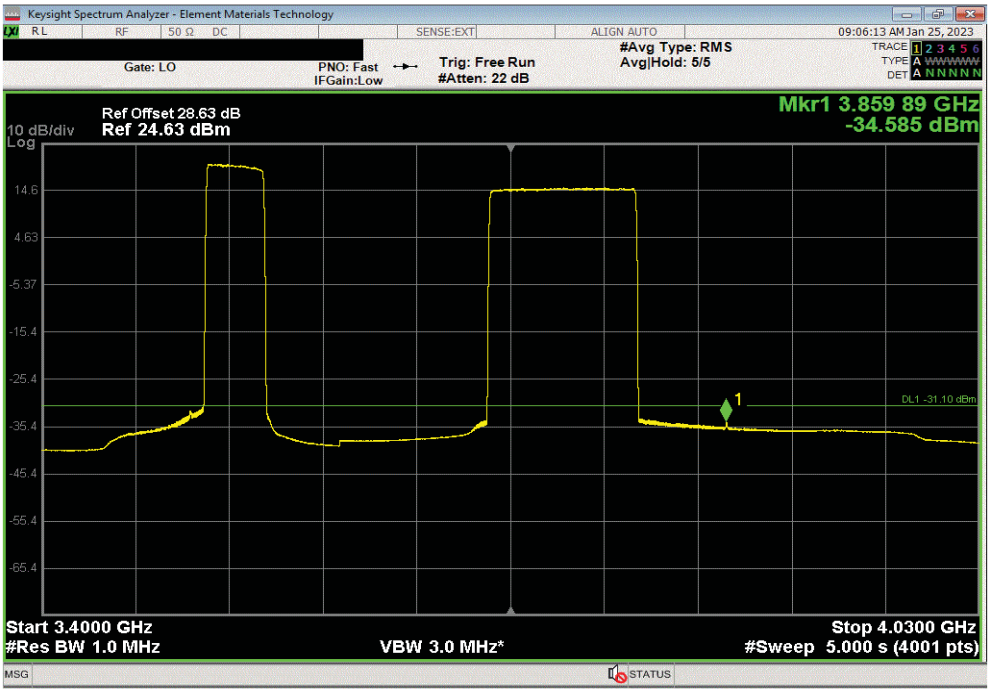
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 4				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.57 GHz - 3.68 GHz	3672.41	-61.74	-58.1	Pass



Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 4					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	4 GHz - 4.2 GHz	4013	-64.25	-58.1	Pass

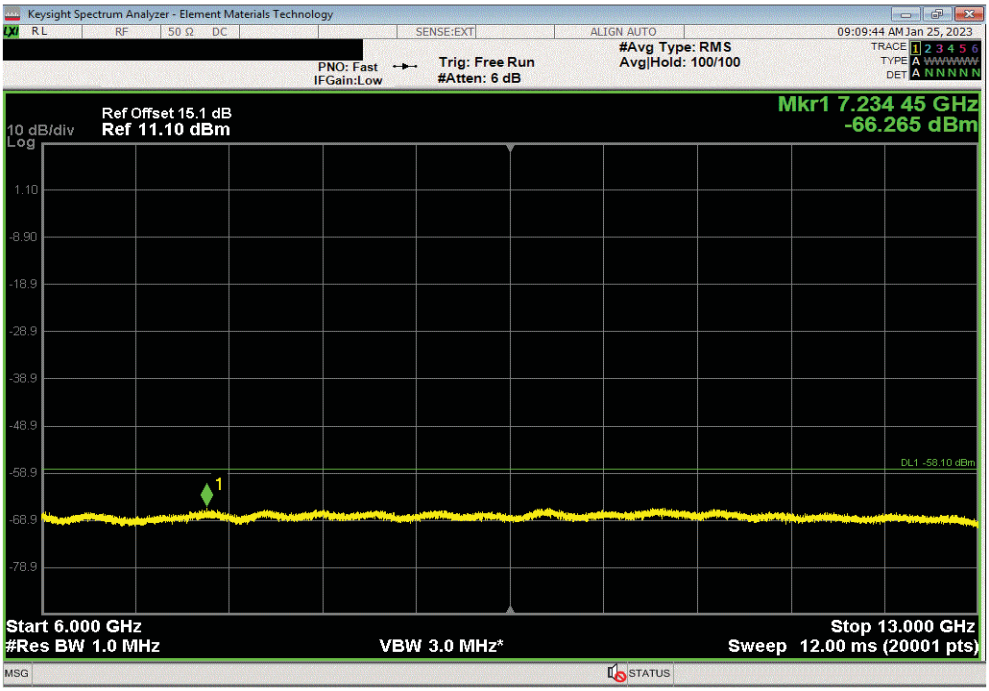


Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 4					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	3.4 GHz - 4.03 GHz	3859.89	-34.59	-31.1	Pass

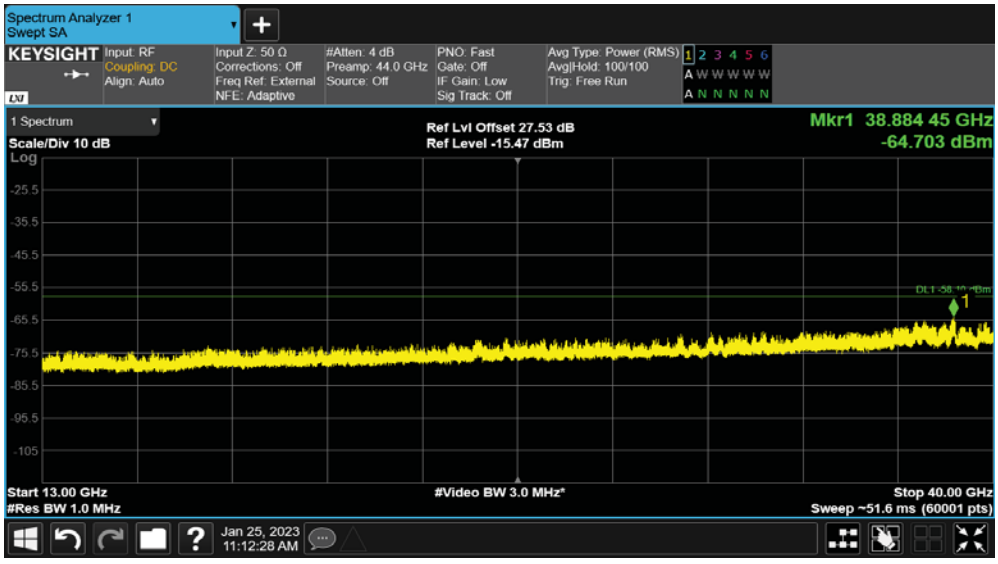


SPURIOUS CONDUCTED EMISSIONS - MULTIBAND

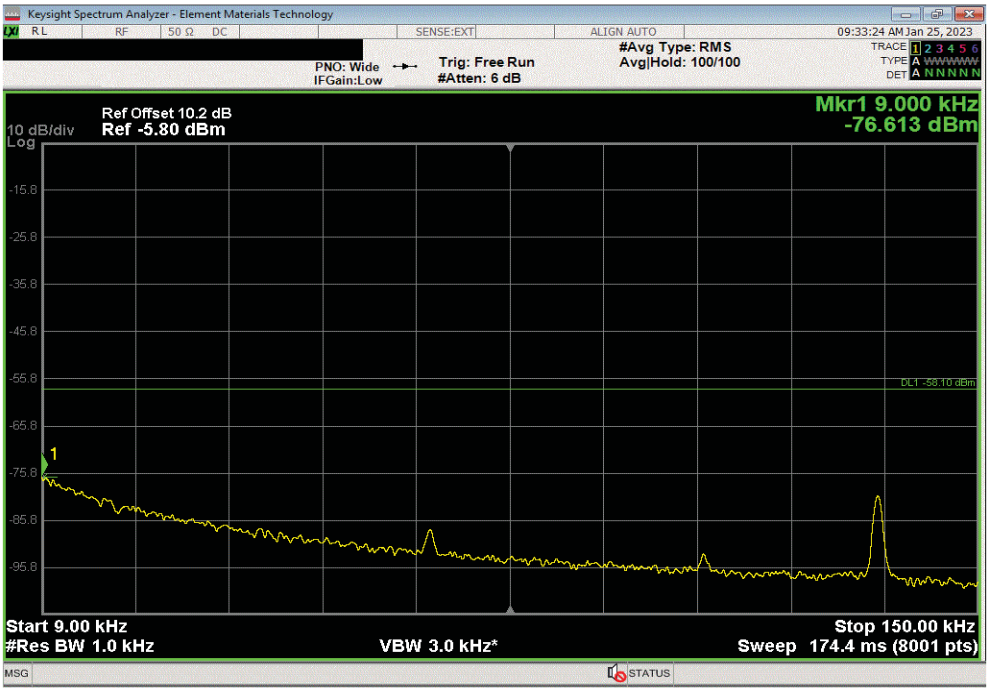
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 4					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	6 GHz - 13 GHz	7234.45	-66.27	-58.1	Pass



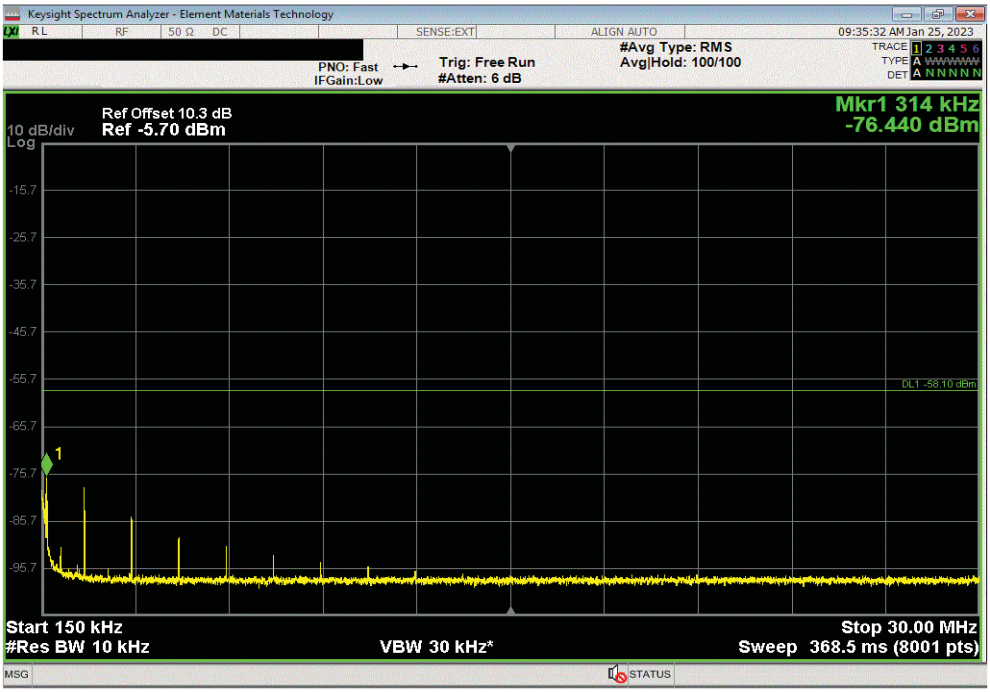
Worst Case Port, Dual Band Mode, 3.45G (Max Power) and 3.7G Bands, 5G NR, Configuration 4					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	13 GHz - 40 GHz	38884	-64.703	-58.1	Pass



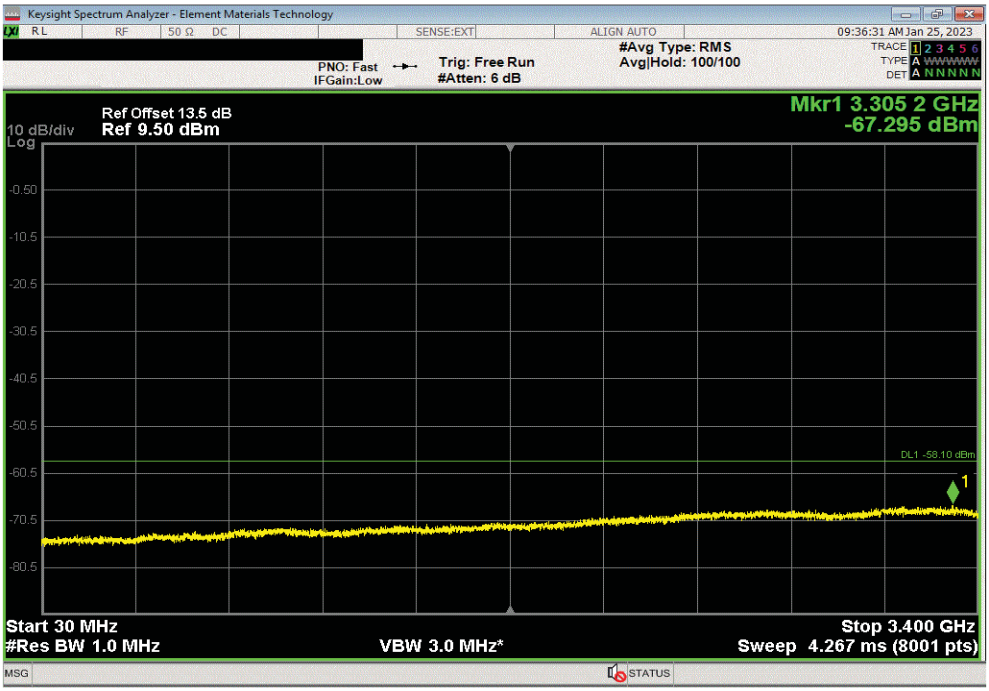
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 1					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	9 kHz - 150 kHz	0.01	-76.61	-58.1	Pass



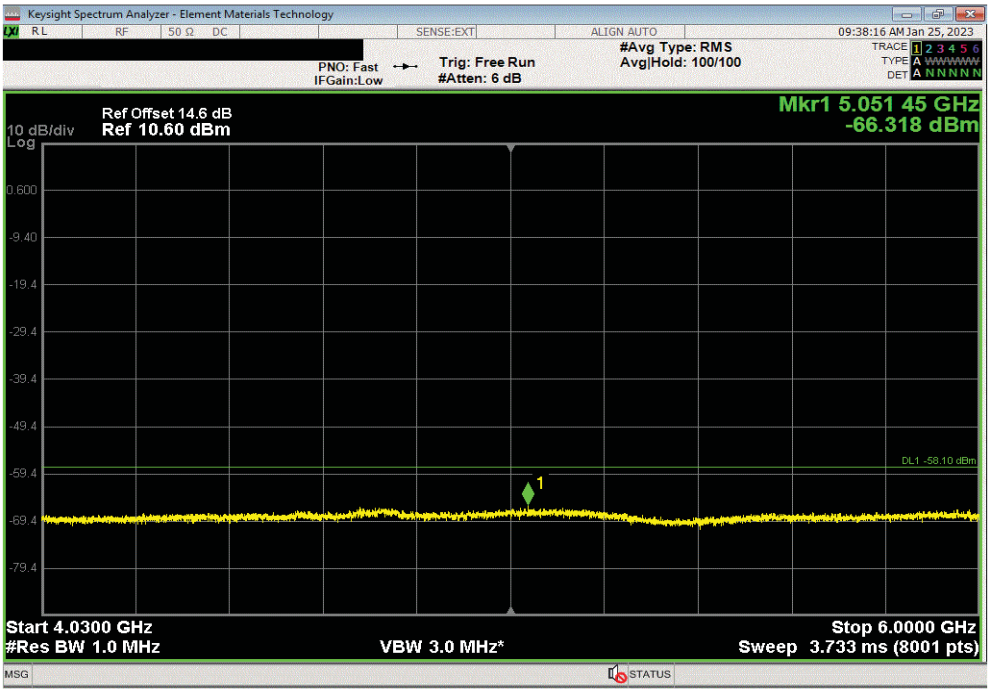
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 1					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	150 kHz - 30 MHz	0.31	-76.44	-58.1	Pass



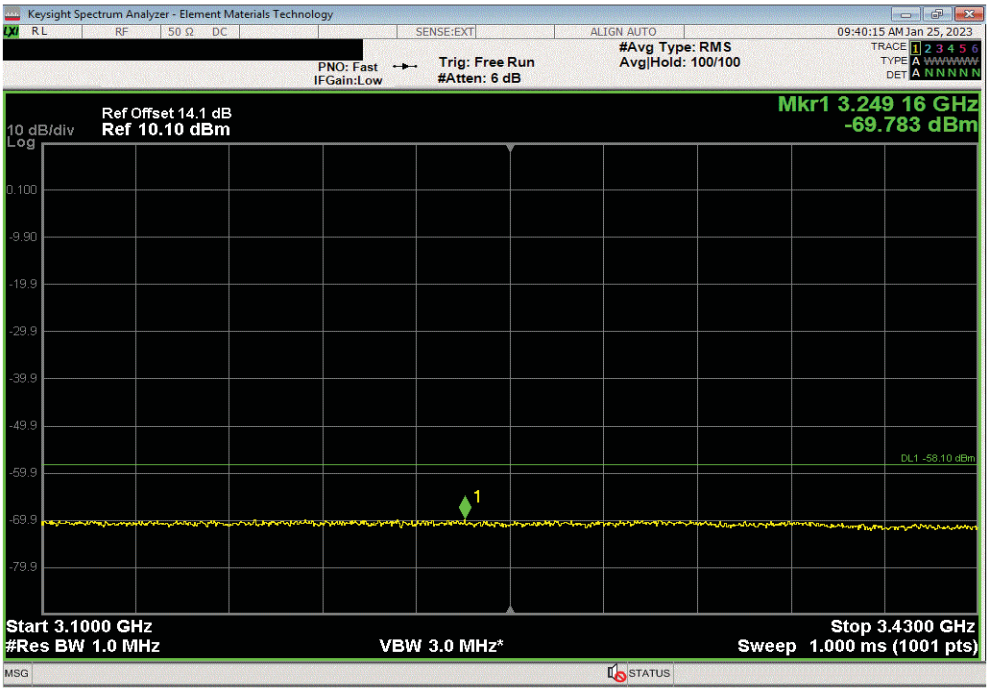
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 1				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
30 MHz - 3.4 GHz	3305.22	-67.3	-58.1	Pass



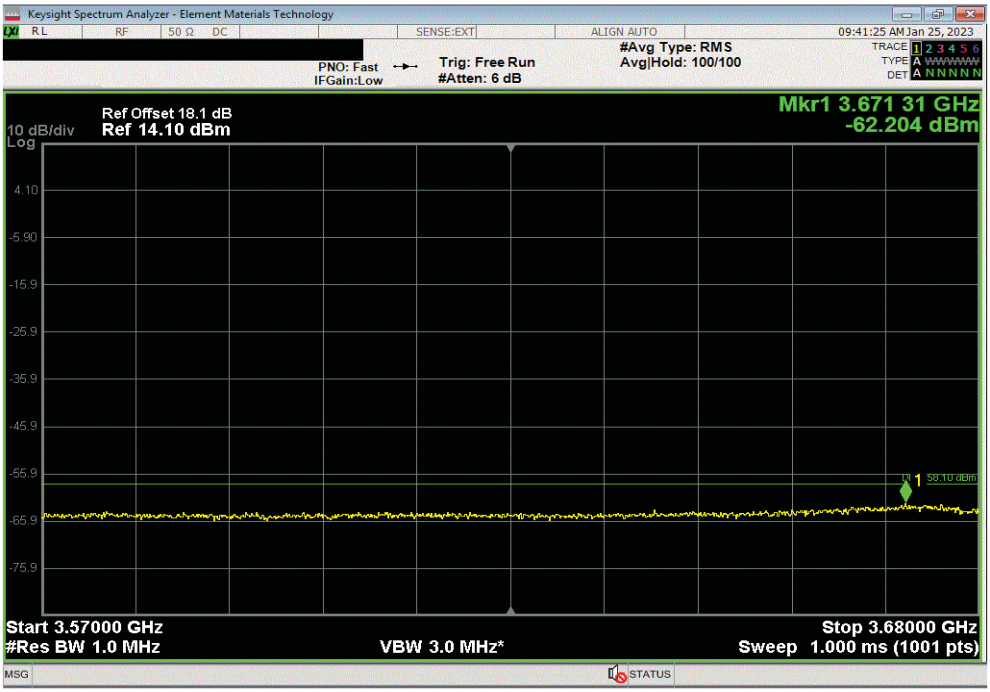
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 1				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
4.03 GHz - 6 GHz	5051.45	-66.32	-58.1	Pass



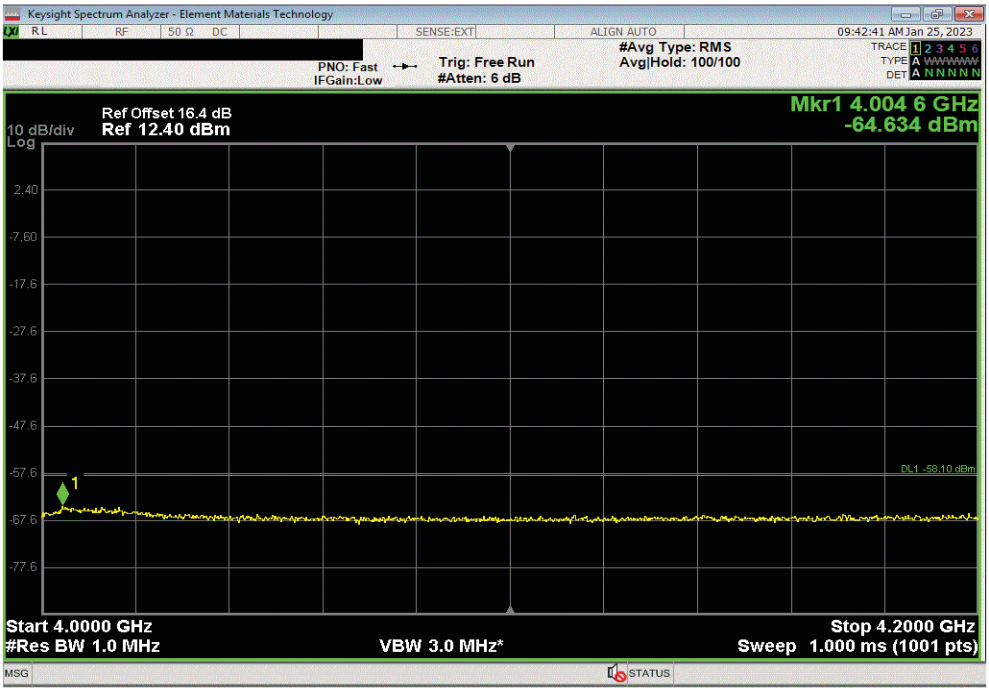
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 1				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.1 GHz - 3.43 GHz	3249.16	-69.78	-58.1	Pass



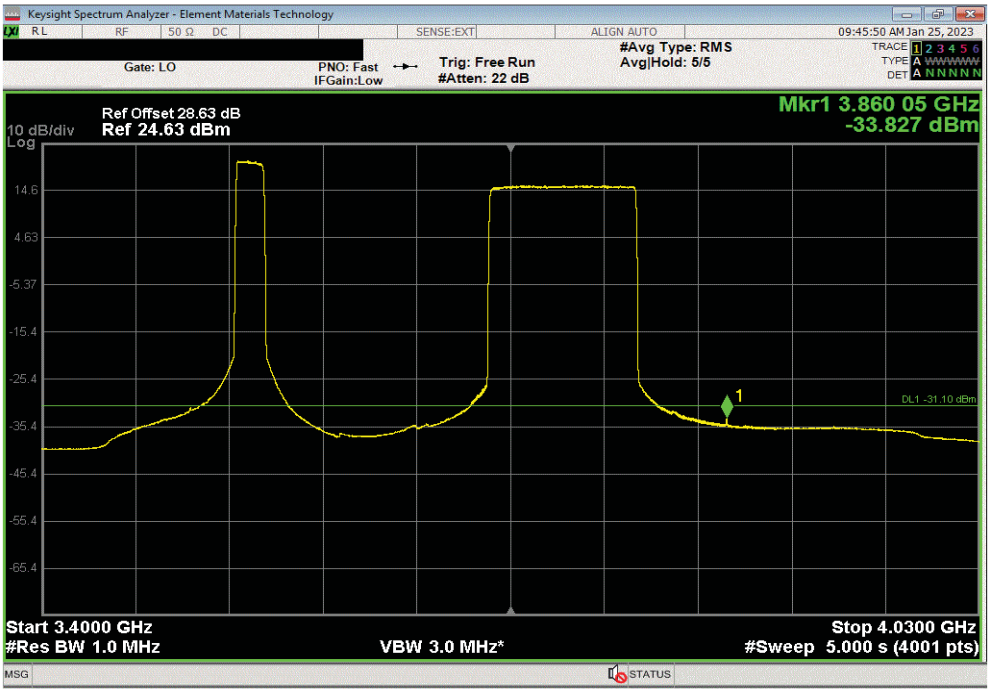
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 1				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.57 GHz - 3.68 GHz	3671.31	-62.2	-58.1	Pass



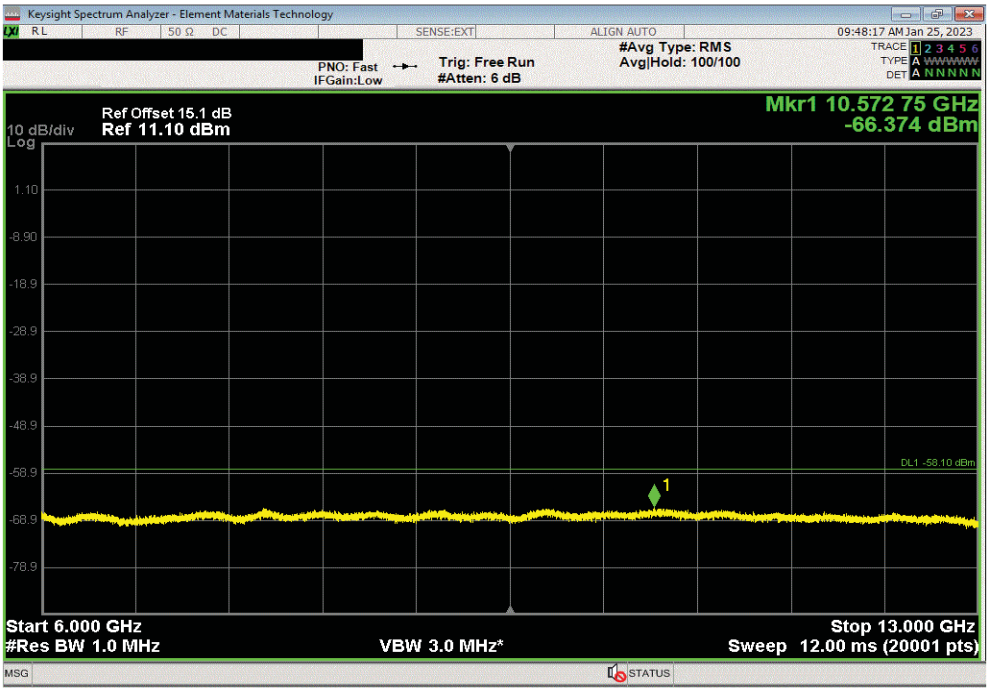
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 1					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	4 GHz - 4.2 GHz	4004.6	-64.63	-58.1	Pass



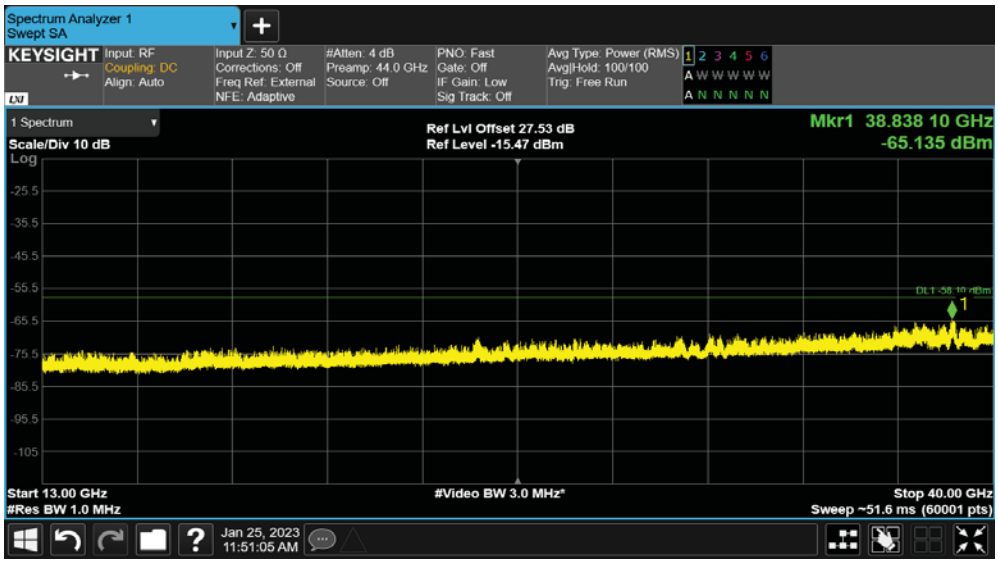
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 1					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	3.4 GHz - 4.03 GHz	3860.05	-33.83	-31.1	Pass



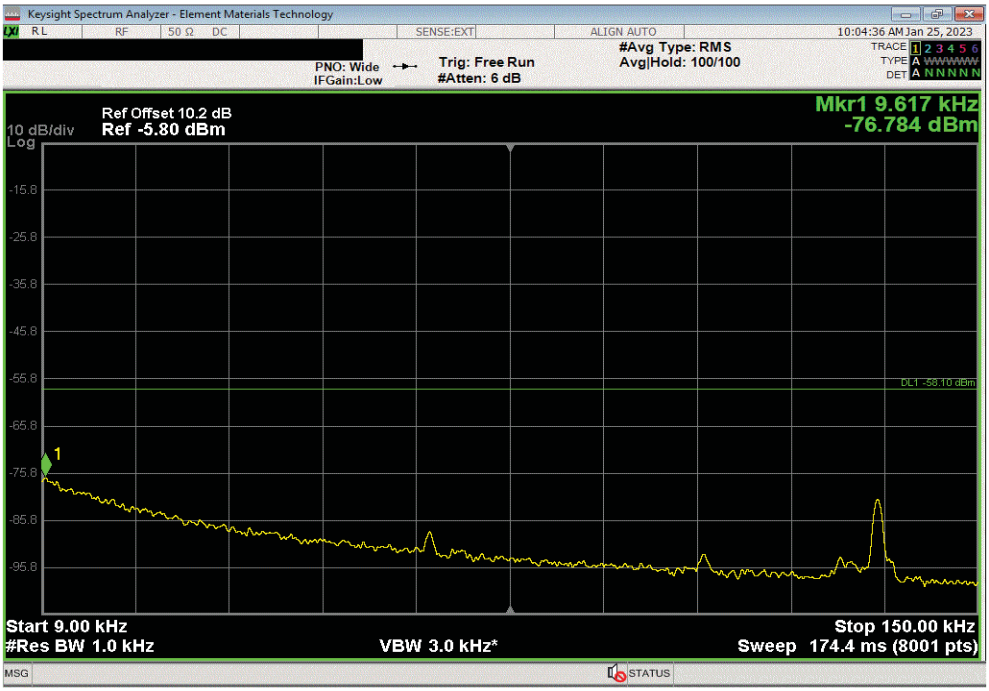
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 1					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	6 GHz - 13 GHz	10572.75	-66.37	-58.1	Pass



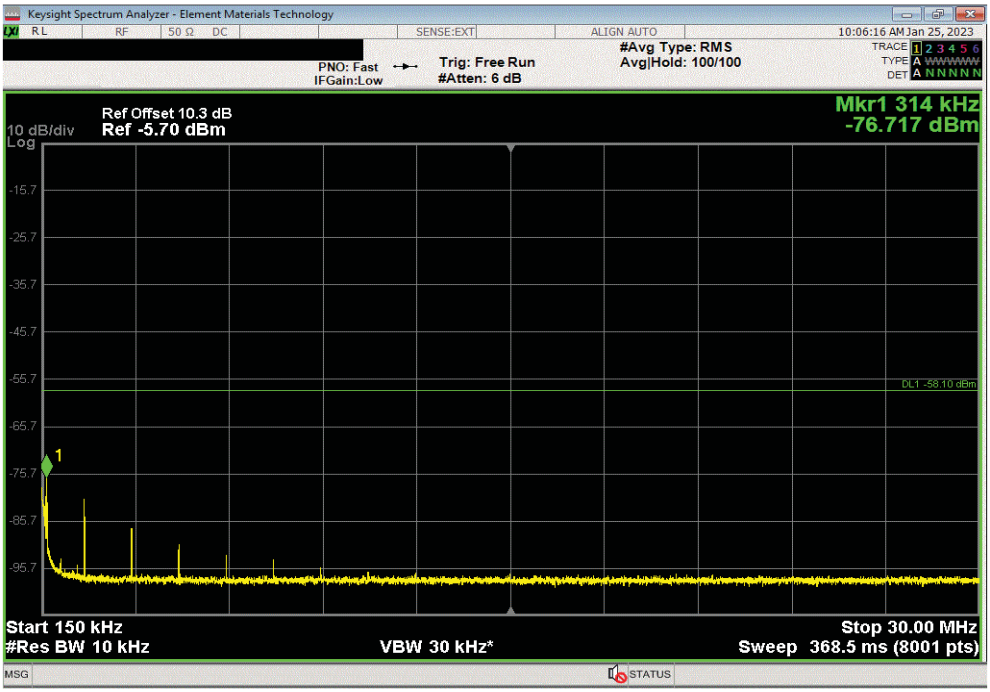
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 1					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	13 GHz - 40 GHz	38838	-65.135	-58.1	Pass



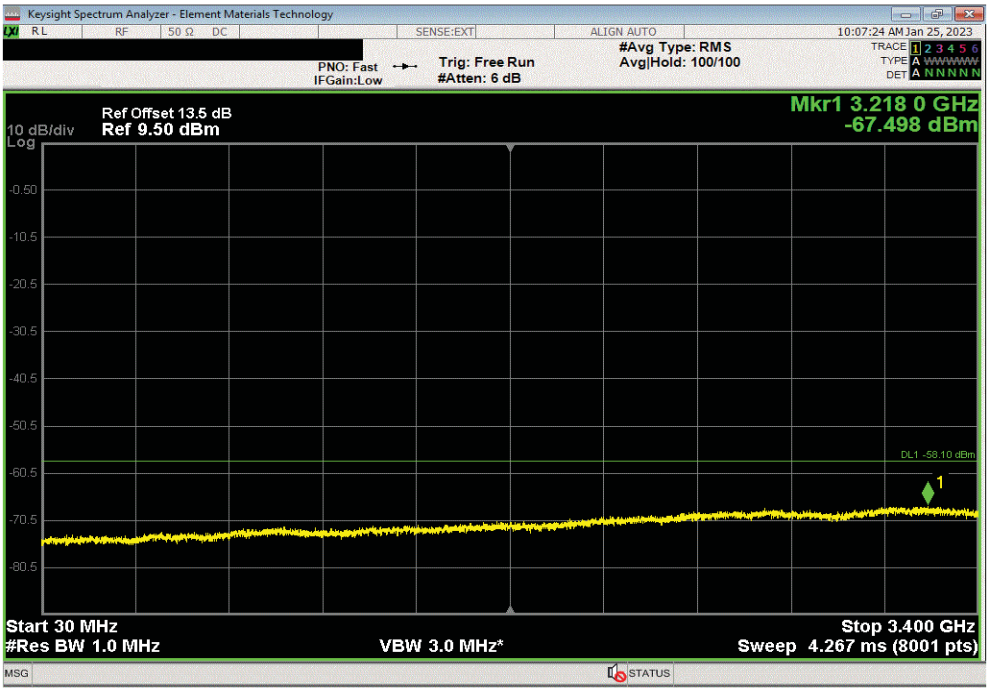
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 2					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	9 kHz - 150 kHz	0.01	-76.78	-58.1	Pass



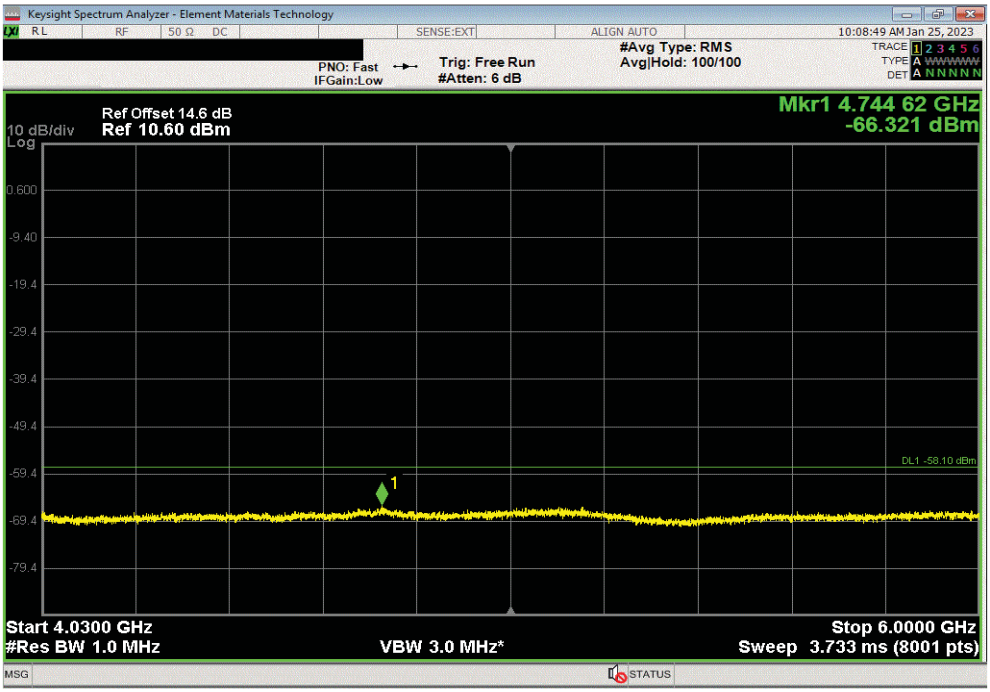
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 2					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	150 kHz - 30 MHz	0.31	-76.72	-58.1	Pass



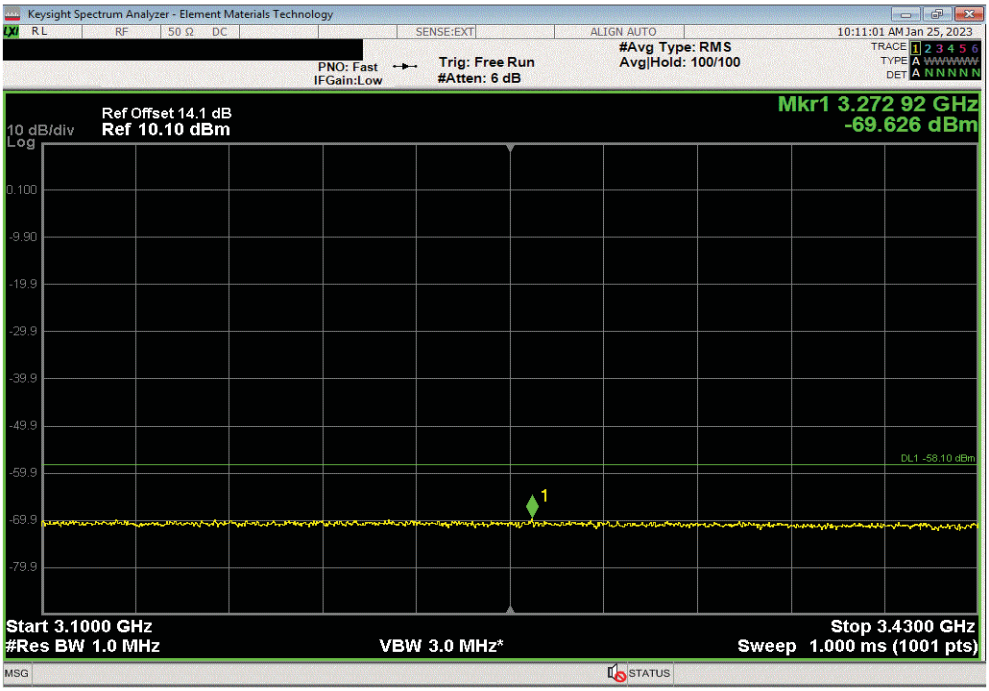
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 2				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
30 MHz - 3.4 GHz	3218.02	-67.5	-58.1	Pass



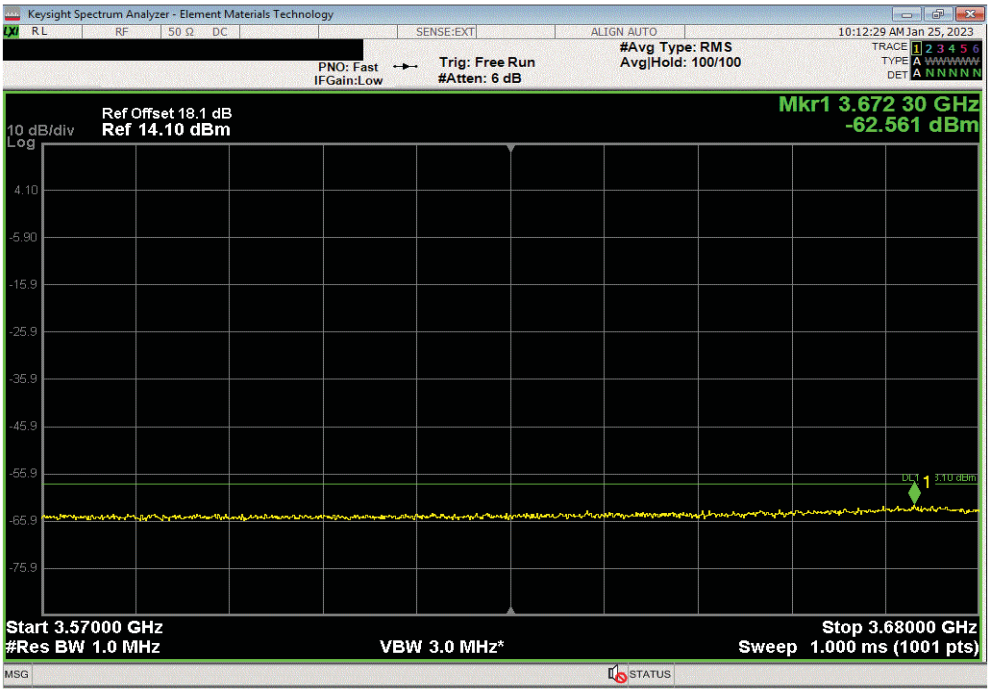
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 2				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
4.03 GHz - 6 GHz	4744.62	-66.32	-58.1	Pass



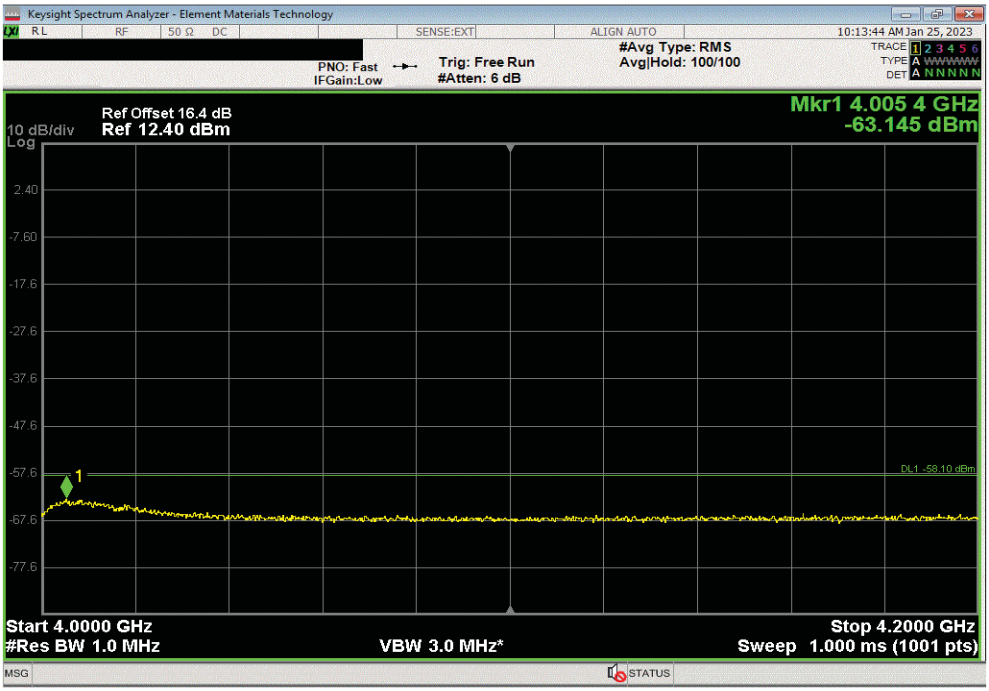
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 2				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.1 GHz - 3.43 GHz	3272.92	-69.63	-58.1	Pass



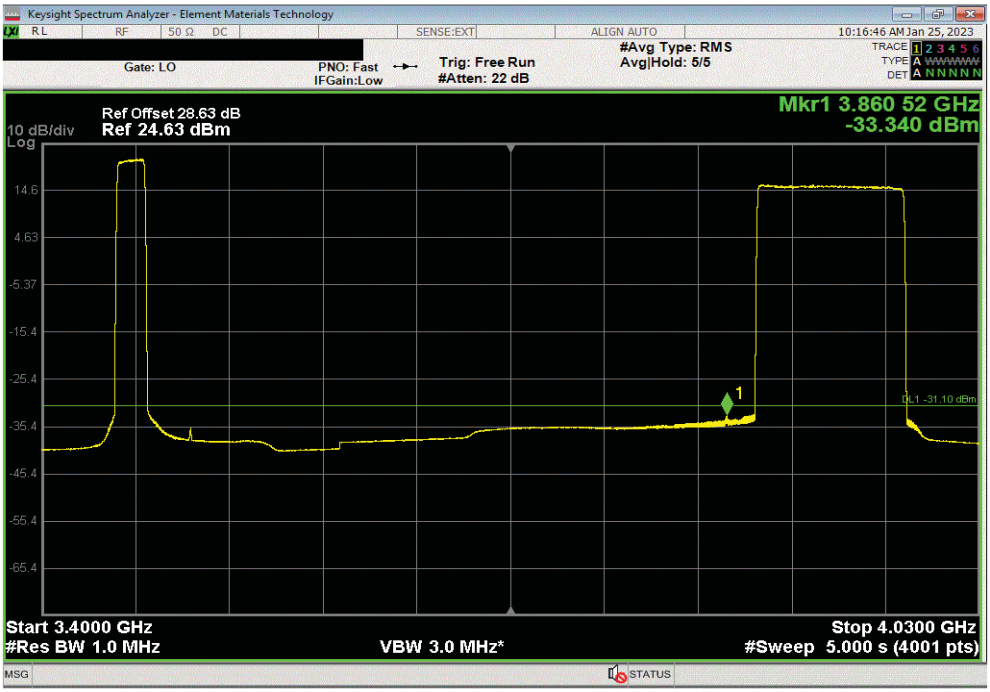
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 2				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.57 GHz - 3.68 GHz	3672.3	-62.56	-58.1	Pass



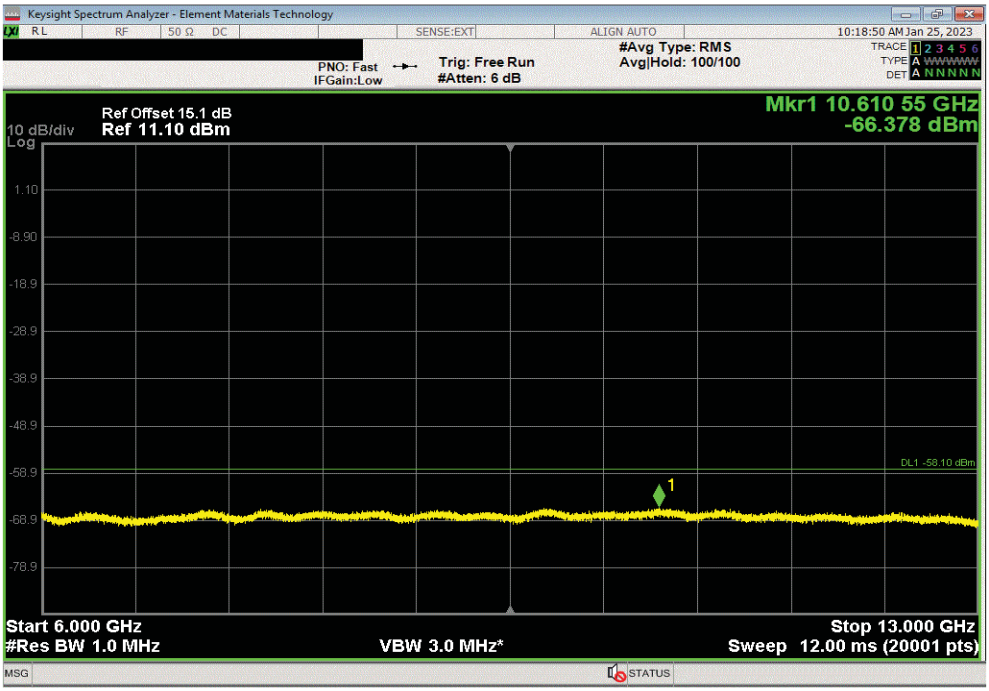
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 2					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	4 GHz - 4.2 GHz	4005.4	-63.15	-58.1	Pass



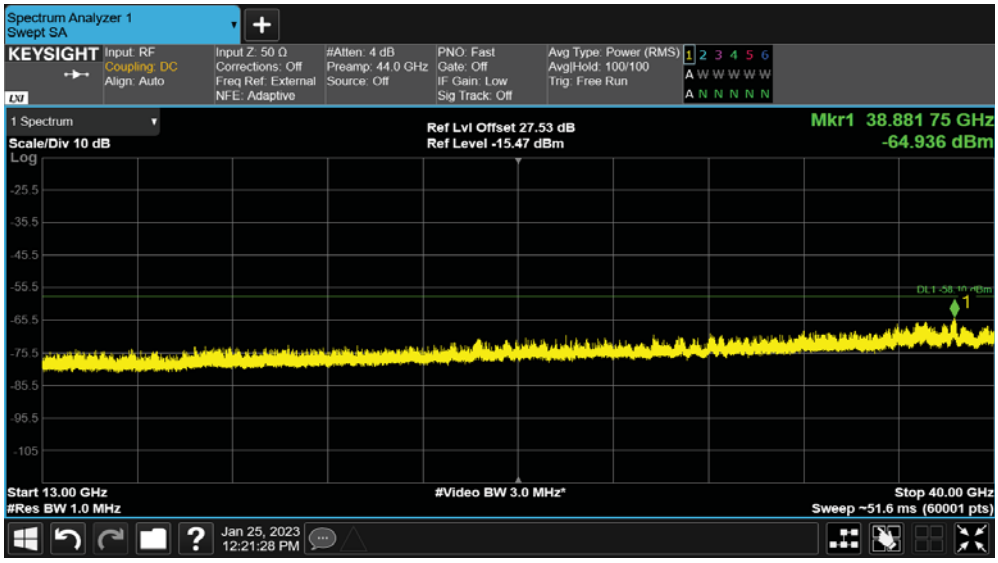
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 2					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	3.4 GHz - 4.03 GHz	3860.52	-33.34	-31.1	Pass



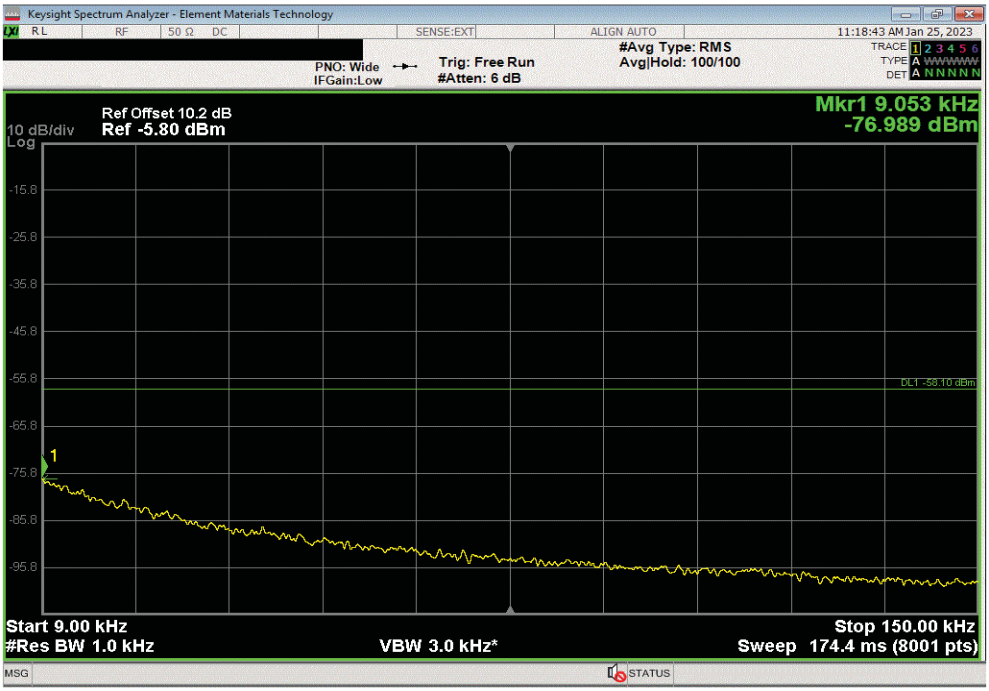
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 2					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	6 GHz - 13 GHz	10610.55	-66.38	-58.1	Pass



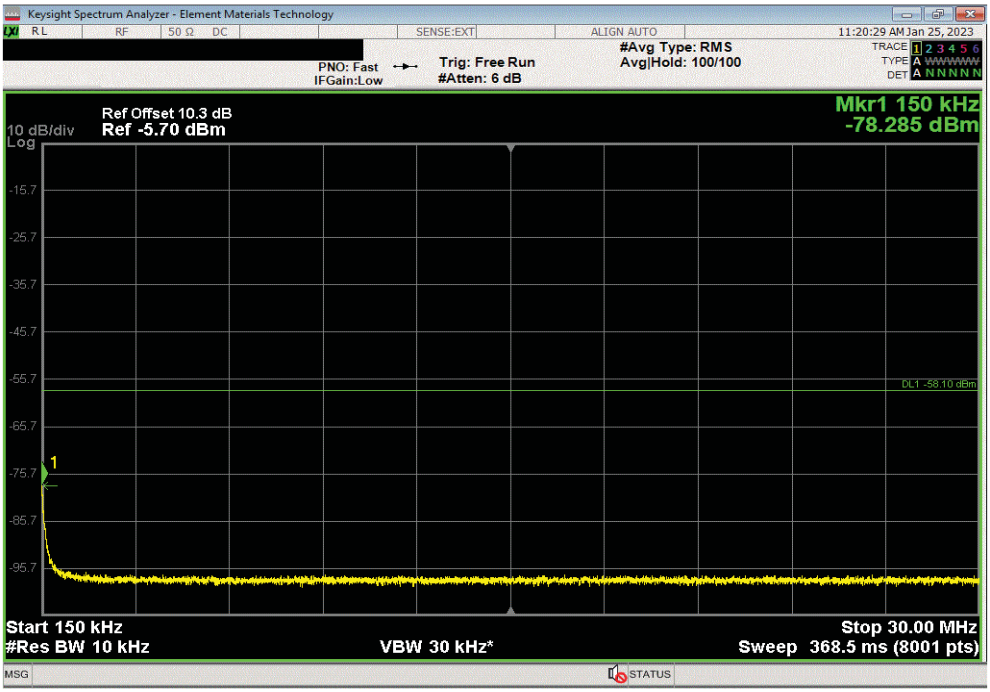
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 2					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	13 GHz - 40 GHz	38882	-64.936	-58.1	Pass



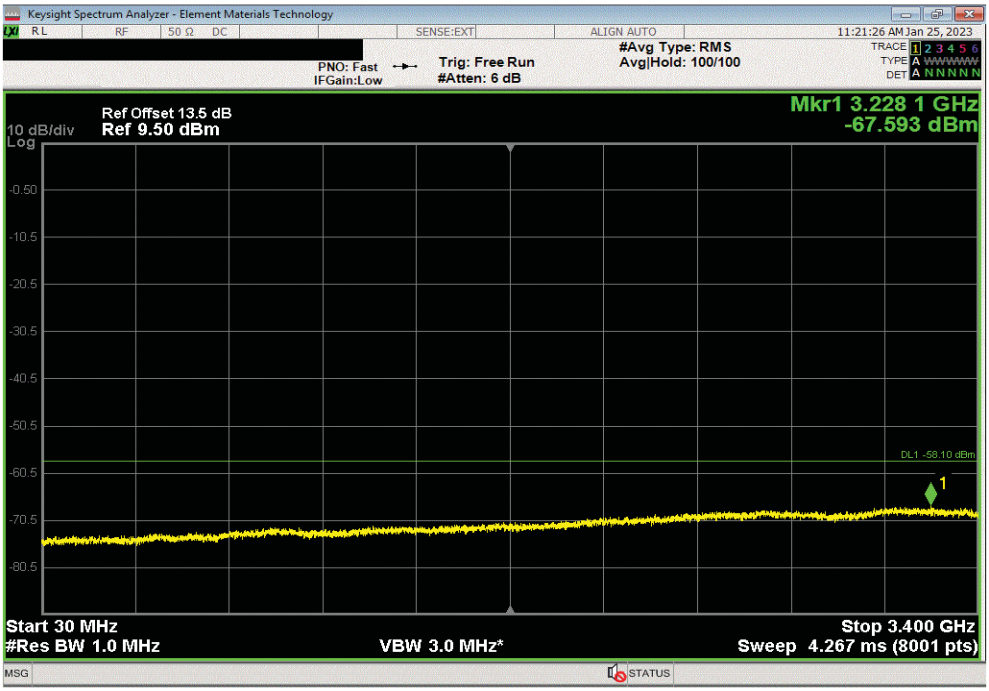
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 3					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	9 kHz - 150 kHz	0.01	-76.99	-58.1	Pass



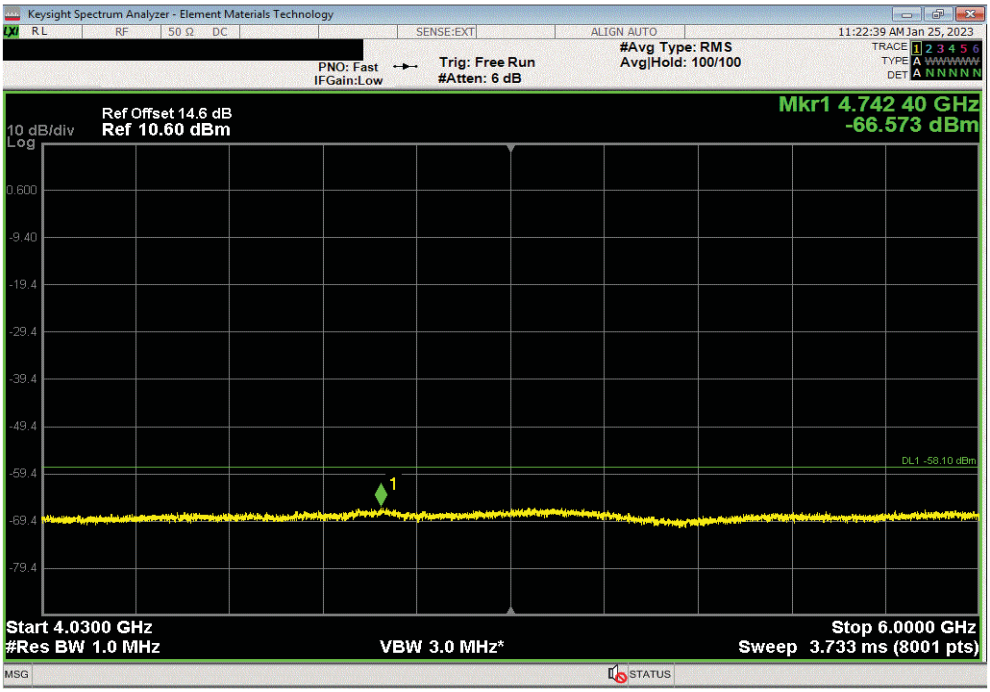
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 3					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	150 kHz - 30 MHz	0.15	-78.29	-58.1	Pass



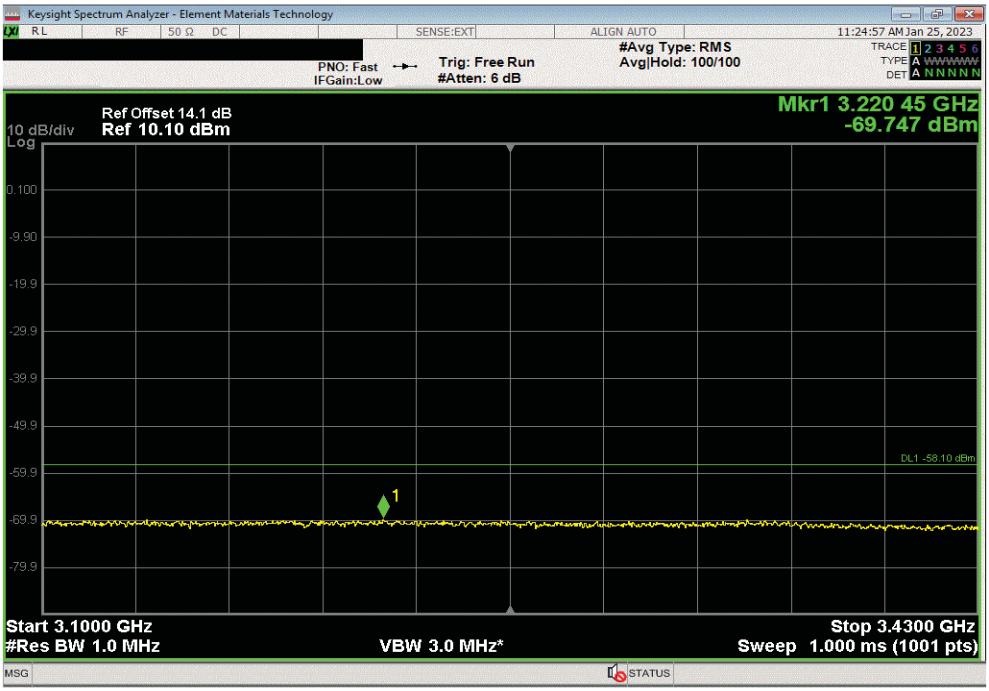
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 3				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
30 MHz - 3.4 GHz	3228.13	-67.59	-58.1	Pass



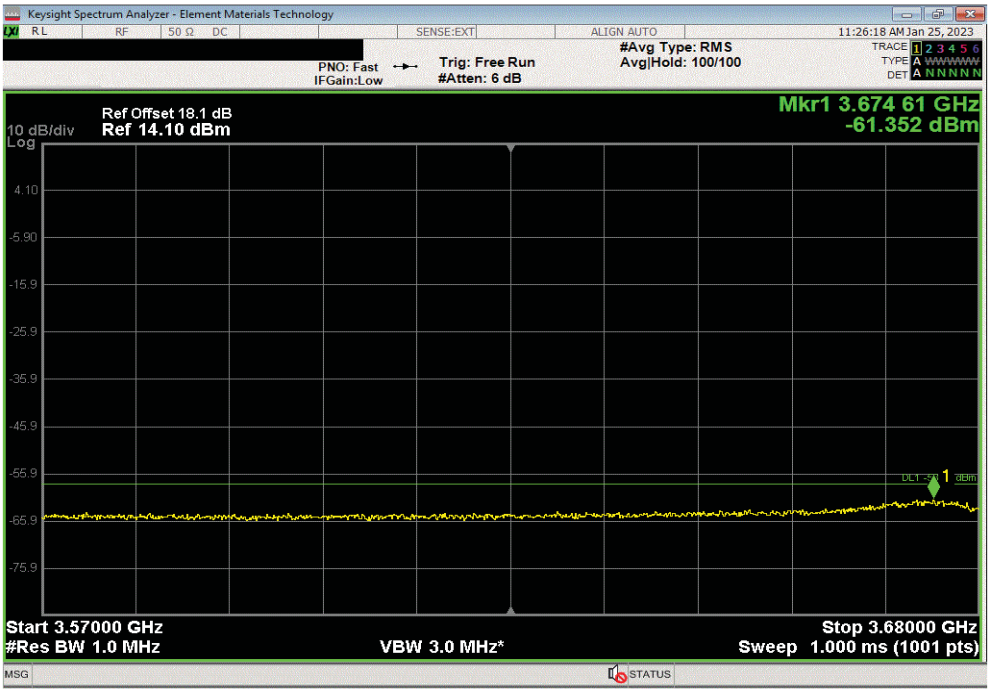
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 3				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
4.03 GHz - 6 GHz	4742.4	-66.57	-58.1	Pass



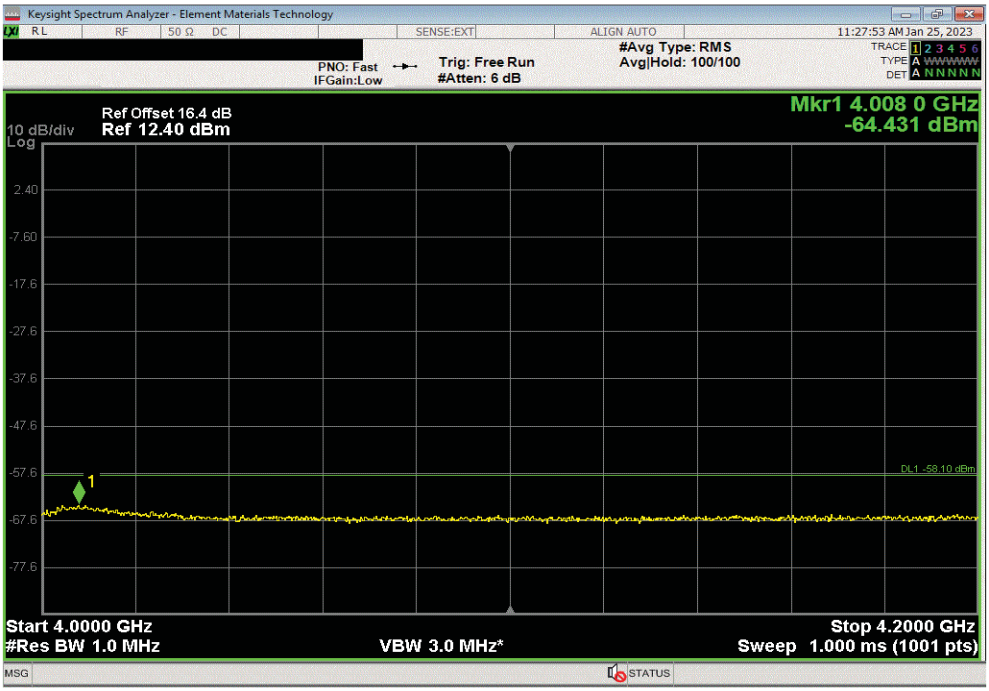
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 3				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.1 GHz - 3.43 GHz	3220.45	-69.75	-58.1	Pass



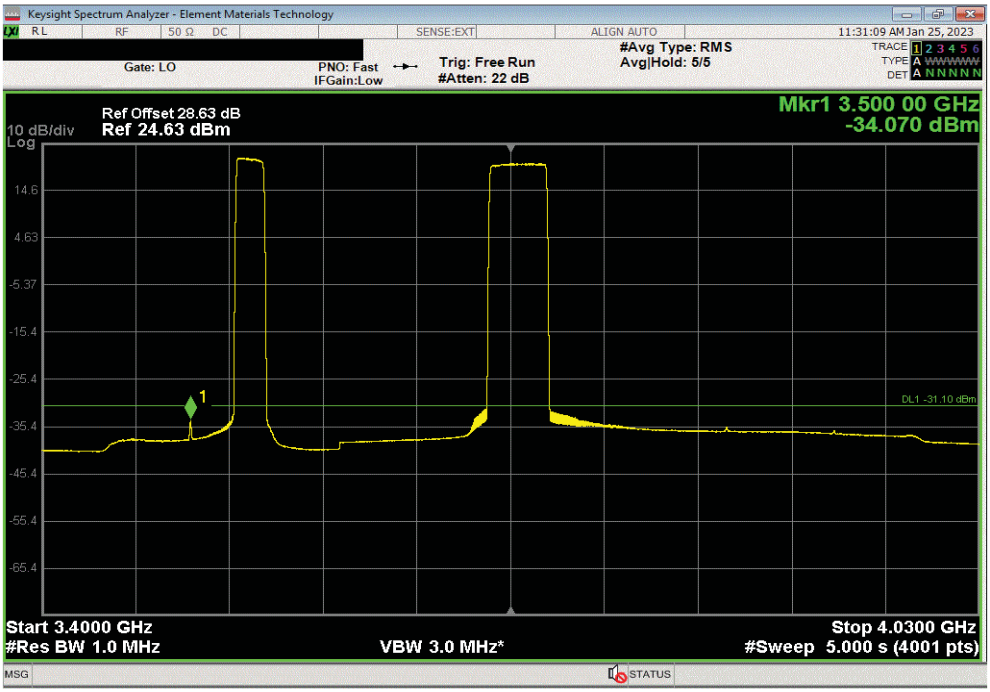
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 3				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.57 GHz - 3.68 GHz	3674.61	-61.35	-58.1	Pass



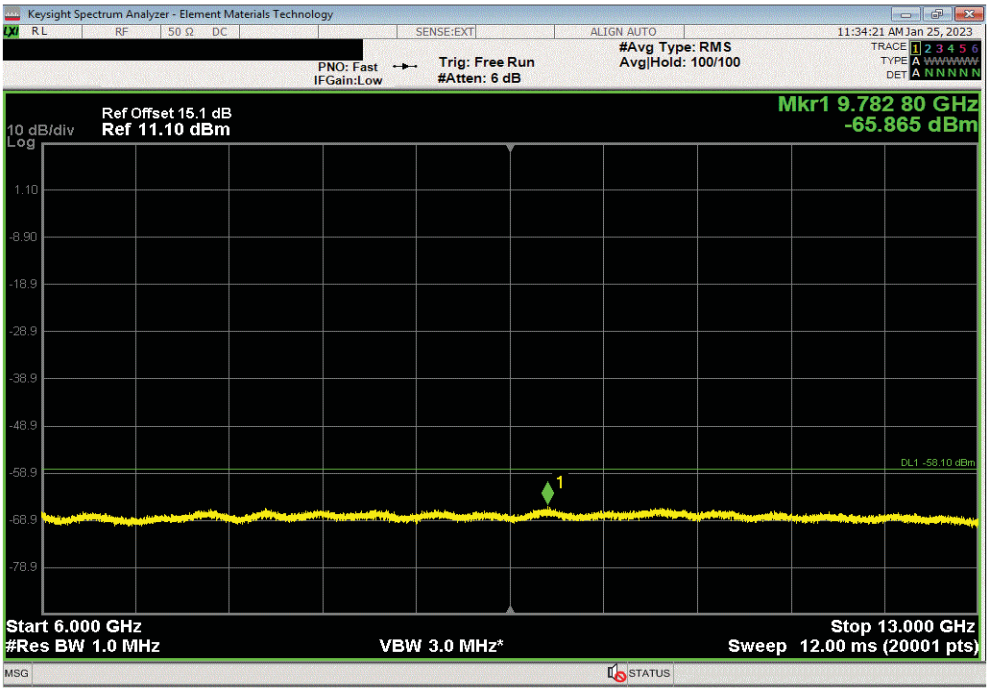
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 3					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	4 GHz - 4.2 GHz	4008	-64.43	-58.1	Pass



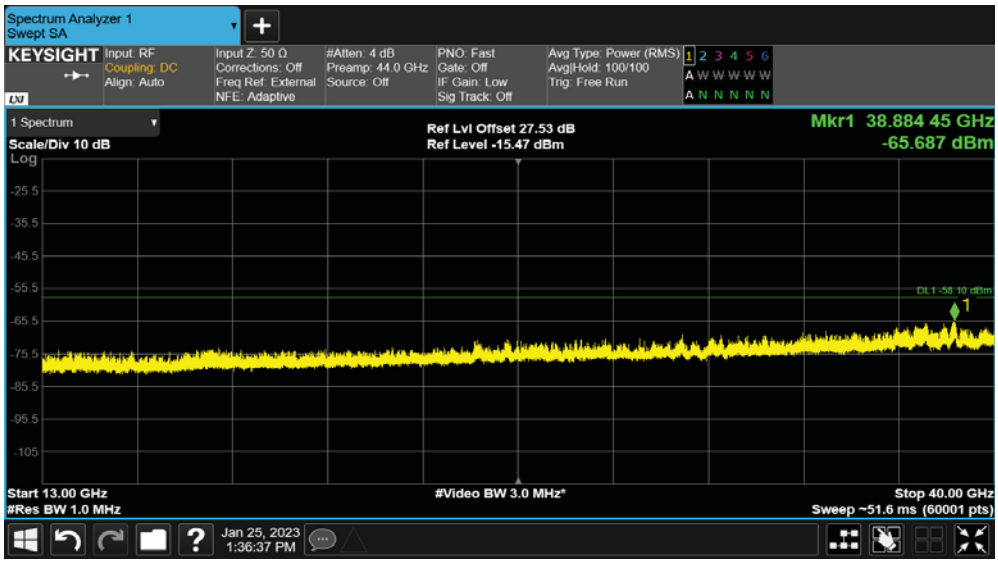
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 3					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	3.4 GHz - 4.03 GHz	3500	-34.07	-31.1	Pass



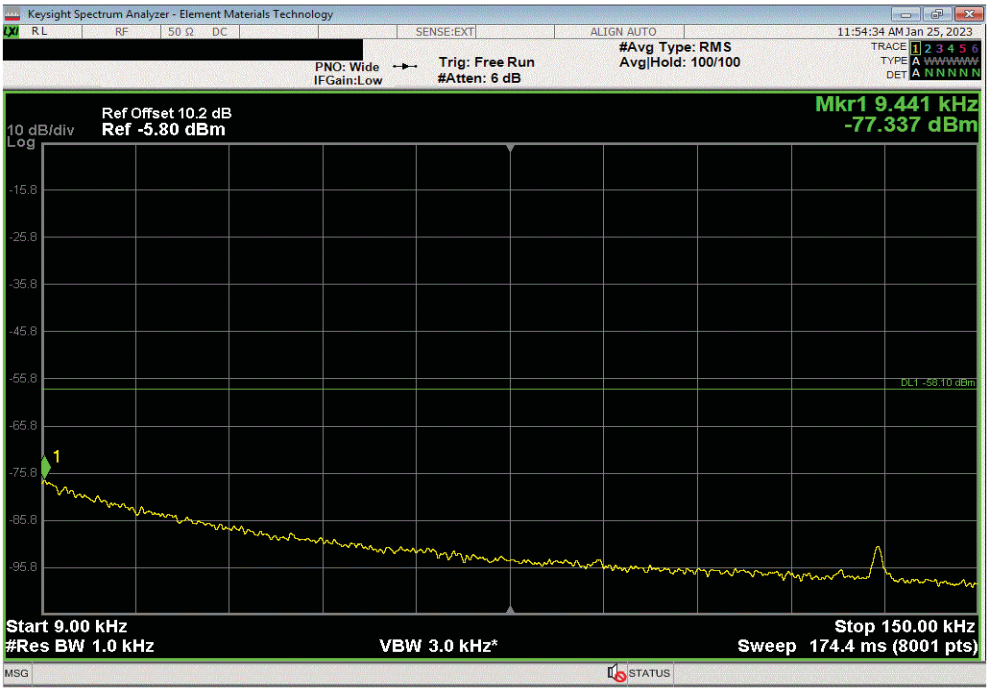
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 3					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	6 GHz - 13 GHz	9782.8	-65.86	-58.1	Pass



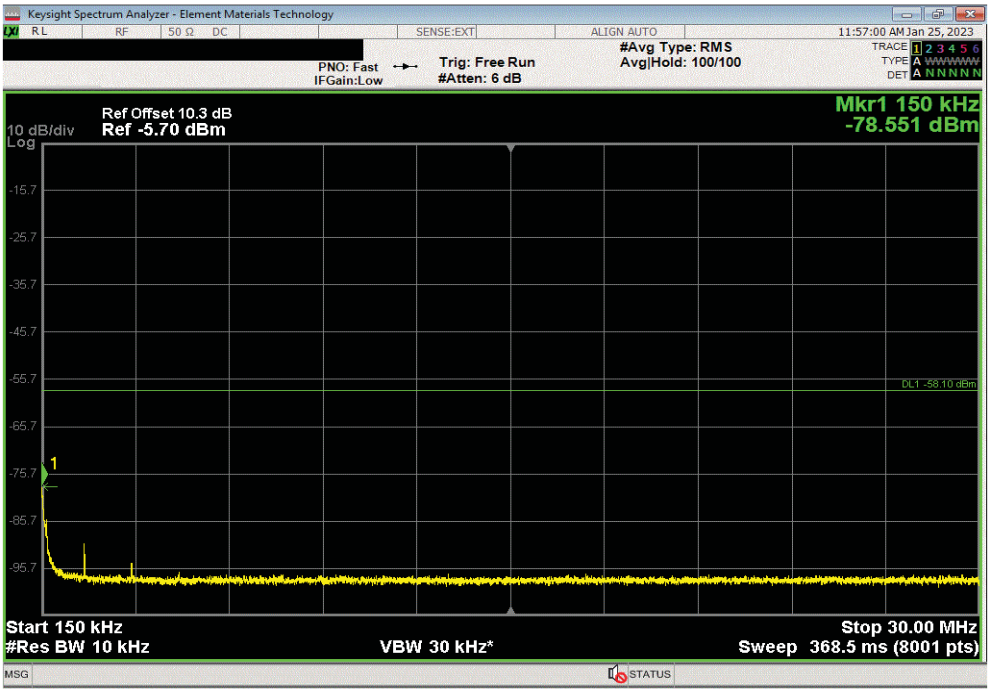
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 3					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	13 GHz - 40 GHz	38884	-65.687	-58.1	Pass



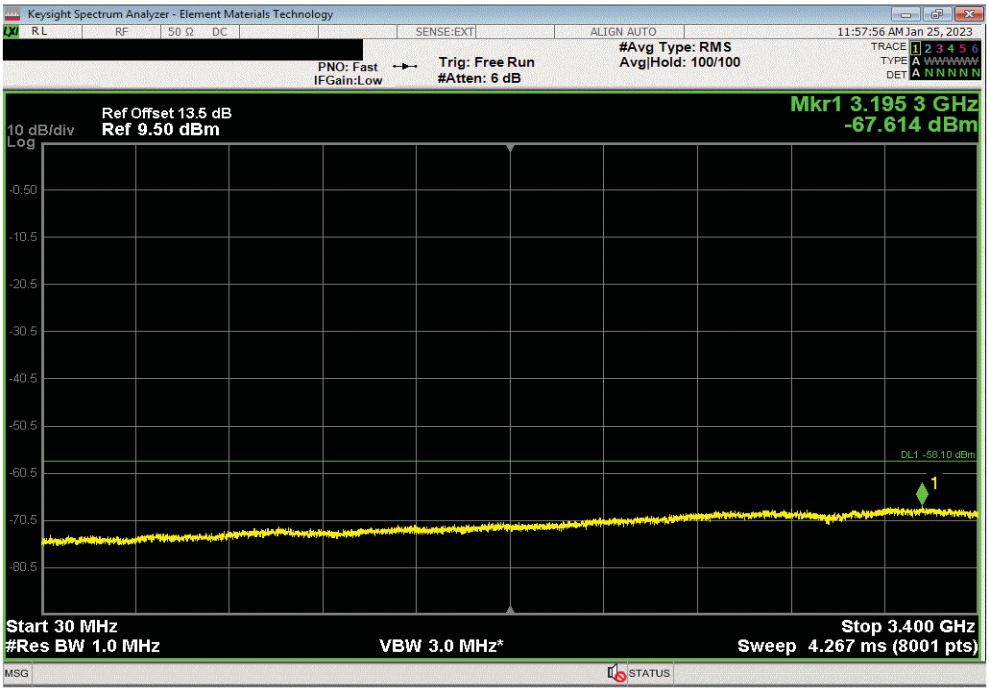
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 4					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	9 kHz - 150 kHz	0.01	-77.34	-58.1	Pass



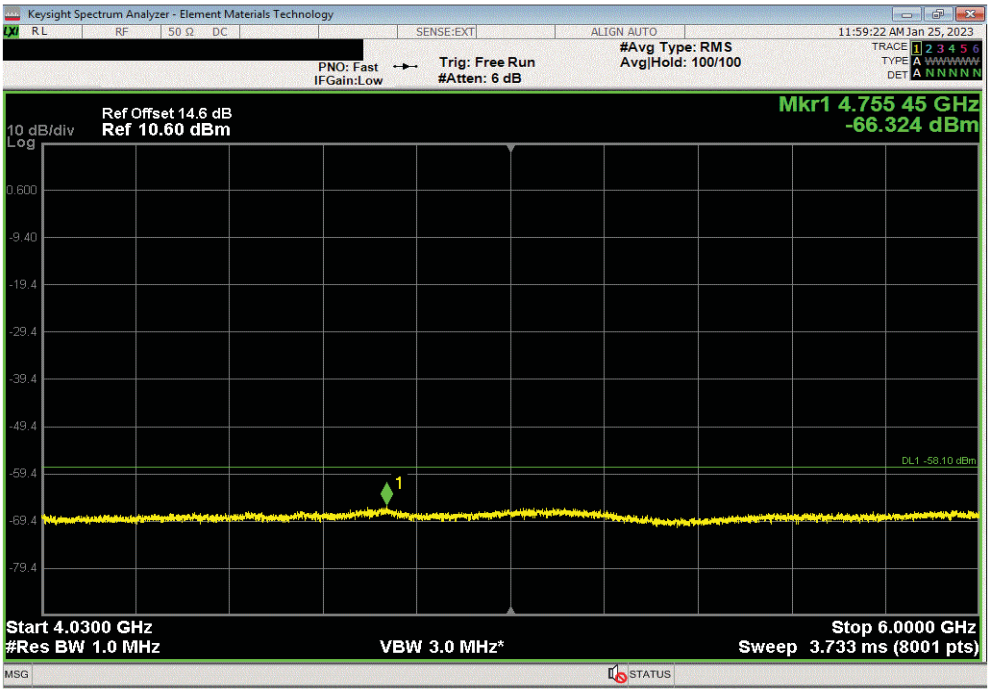
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 4					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	150 kHz - 30 MHz	0.15	-78.55	-58.1	Pass



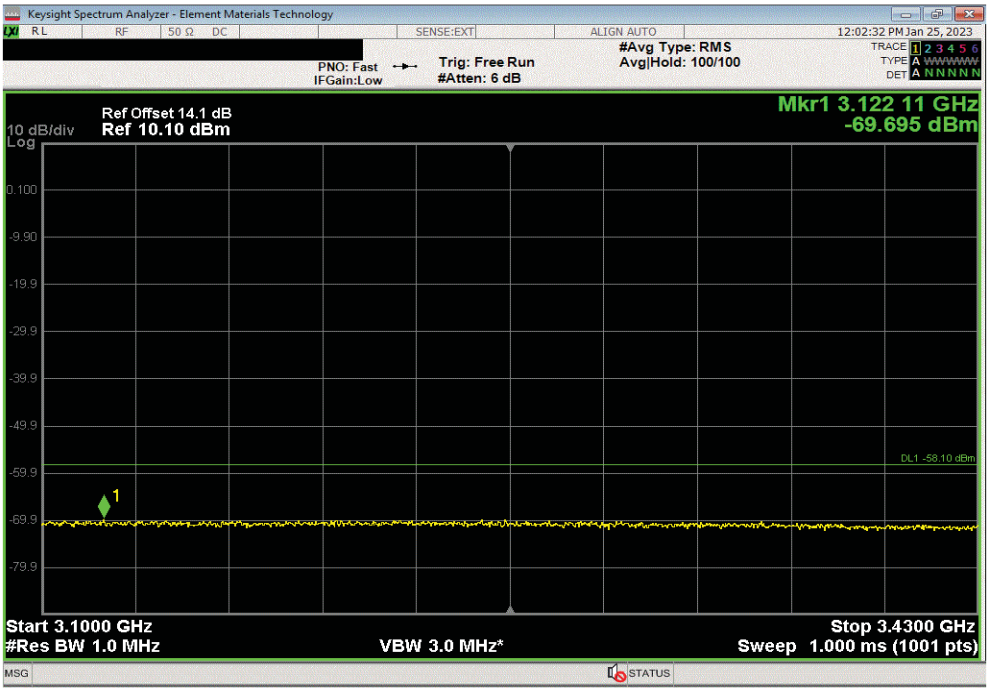
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 4				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
30 MHz - 3.4 GHz	3195.27	-67.61	-58.1	Pass



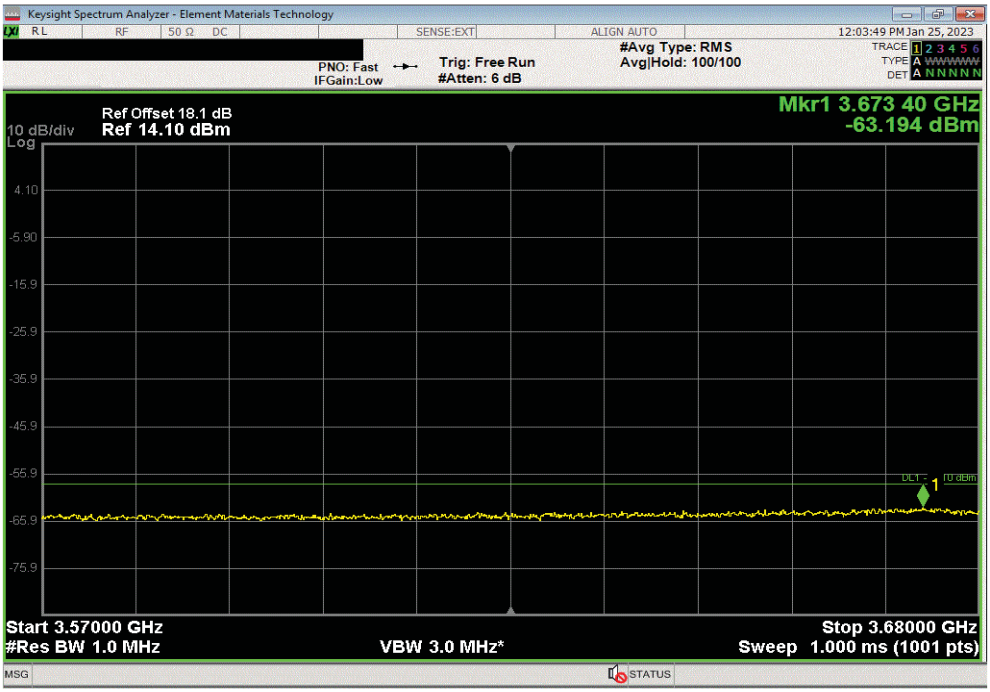
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 4				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
4.03 GHz - 6 GHz	4755.45	-66.32	-58.1	Pass



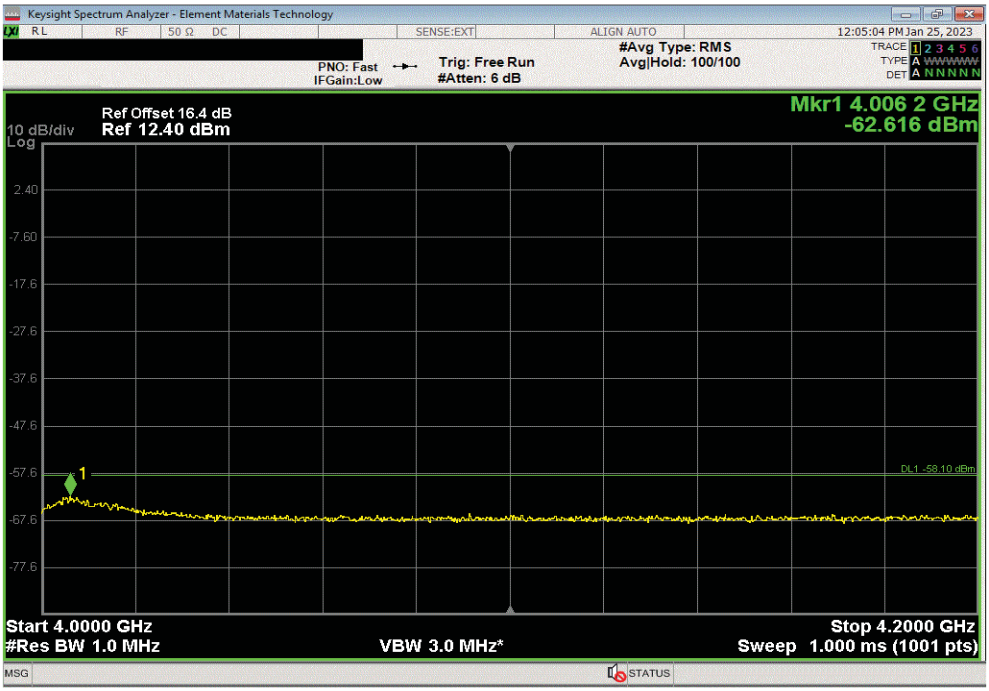
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 4				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.1 GHz - 3.43 GHz	3122.11	-69.7	-58.1	Pass



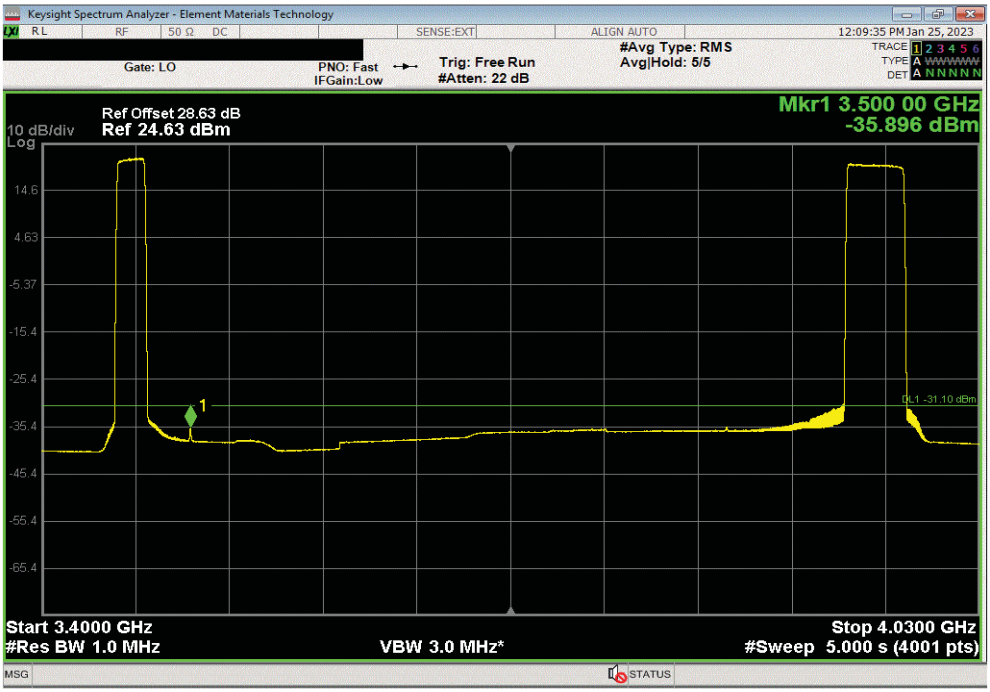
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 4				
Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
3.57 GHz - 3.68 GHz	3673.4	-63.19	-58.1	Pass



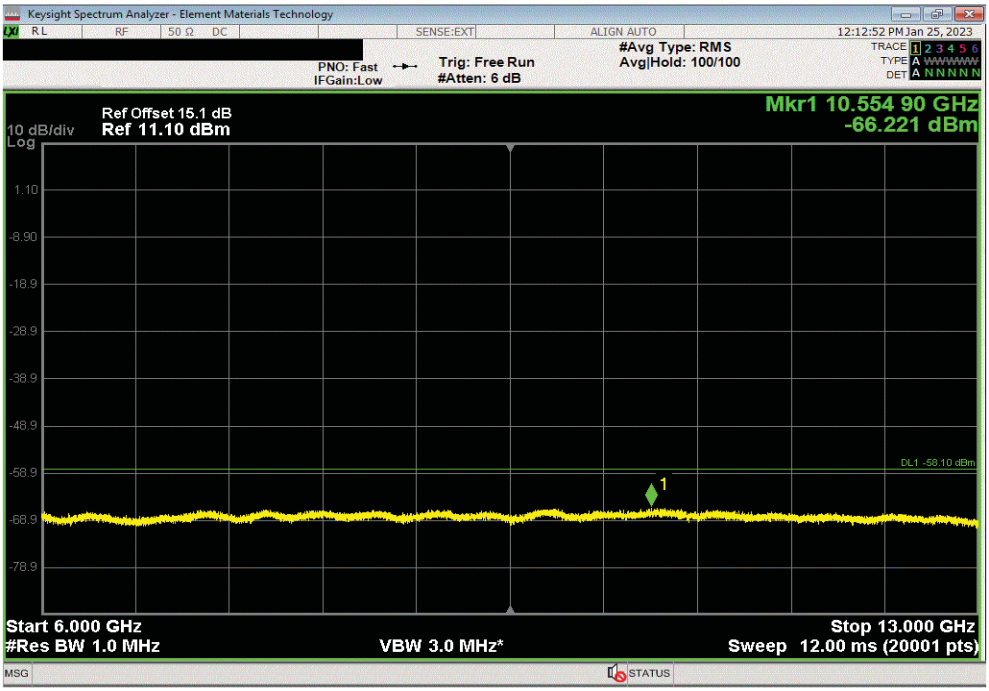
Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 4					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	4 GHz - 4.2 GHz	4006.2	-62.62	-58.1	Pass



Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 4					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	3.4 GHz - 4.03 GHz	3500	-35.9	-31.1	Pass



Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 4					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	6 GHz - 13 GHz	10554.9	-66.22	-58.1	Pass



Worst Case Port, Dual Band Mode, 3.45G and 3.7G (Max Power) Bands, 5G NR, Configuration 4					
	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit (dBm)	Result
	13 GHz - 40 GHz	38842	-65.216	-58.1	Pass