RF Test Report

Applicant	:	Micro-Star INT'L CO., LTD.
Product Name	:	Industrial Data Machine
Trade Name	:	msi
Model Number	:	MS-C923
Applicable Standard	:	FCC 47 CFR PART 22H FCC 47 CFR PART 24E FCC 47 CFR PART 27 FCC 47 CFR PART 90S FCC 47 CFR PART 90R FCC 47 CFR PART 96 ANSI C63.26 2015
Received Date	:	Apr. 23, 2025
Test Period	:	May 16, 2025 ~ Jun. 06, 2025
Issued Date	:	Jul. 07, 2025

Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City, Taiwan (R.O.C.)
Tel：+886-3-2710188 / Fax：+886-3-2710190

Taiwan Accreditation Foundation accreditation number: 1330
Frequency Range: 9 kHz to 40 GHz
Bade test site：
Test Firm Registration Number: 226252
Test Firm Designation Number: TW0010
Wugu test site：
Test Firm Registration Number: 191812
Test Firm Designation Number: TW0034

Note:
1.The test results are valid only for samples provided by customers and under the test conditions described in this report.
2.This report shall not be reproduced except in full, without the written approval of Eurofins E&E Wireless Taiwan Co., Ltd.
3.The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

Revision History

Rev.	Issued Date	Description	Revised by
00	Jul. 07, 2025	Initial Issue	Snow Wang

Verification of Compliance

Applicant	:	Micro-Star INT'L CO., LTD.
Product Name	:	Industrial Data Machine
Trade Name	:	msi
Model Number	:	MS-C923
FCC ID	:	I4L-MSC923
Applicable Standard	:	FCC 47 CFR PART 22H FCC 47 CFR PART 24E FCC 47 CFR PART 27 FCC 47 CFR PART 90S FCC 47 CFR PART 90R FCC 47 CFR PART 96 ANSI C63.26 2015
Test Result	:	Complied
Issued By	:	Eurofins E&E Wireless Taiwan Co., Ltd. No. 140-1, Changan Street, Bade District, Taoyuan City, Taiwan (R.O.C.) Tel：+886-3-2710188 / Fax：+886-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330

Eurofins E&E Wireless Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Eurofins E&E Wireless Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : Kai Yu Yang

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1 General Information

1.1. Summary of Test Result

FCC Rule	Description	Result
§2.1046	Conducted Output Average Power	Reference
§22.913 §24.232 §27. 50 §90.542(Part 90R) §90.635(Part 90S)	Equivalent Isotropic Radiated Power / Equivalent Radiated Power	Pass
§2.1055 §22.355 §24.235 §27. 54	Frequency Stability	Pass
§2.1049	Emission Bandwidth & Occupied Bandwidth	Reference
§24.232 §27.50	Peak to Average Power Ratio	Pass
§2.1051 §22.917 §24.238 §27.53 §90.543(Part 90R)	Band Edge	Pass
§2.1051 §22.917 §24.238 §27.53 §90.543(Part 90R)	Conducted Spurious Emissions	Pass
§2.1053 §22.917 §24.238 §27.53 §90.691 §90.543(Part 90R)	Radiated Spurious Emissions	Pass

Decision Rule

■ Uncertainty is not included.

□ Uncertainty is included.

1.2. Testing Location

Lab Name: Eurofins E&E Wireless Taiwan Co., Ltd.

Site Address: ■ No. 140-1, Changan Street, Bade District, Taoyuan City, Taiwan (R.O.C.)

Site Address: □ No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

1.3. Measurement Uncertainty

Parameter	Uncertainty	
	BD	WG
Conducted Output Average Power	1.1 dB	1.1 dB
Effective Radiated Power / Equivalent Isotropic Radiated Power	1.1 dB	1.1 dB
Frequency Stability	1.3 x 10^{-7} x fc (Hz)	1.3 x 10^{-7} x fc (Hz)
Emission Bandwidth & Occupied Bandwidth	4.4 %	4.4 %
Peak to Average Power Ratio	1.1 dB	1.1 dB
Band Edge	1.1 dB	1.1 dB
Conducted Spurious Emission	1.1 dB	1.1 dB

Parameter	Uncertainty				
	96601-BD	96603-BD	96602-WG	96603-WG	96604-WG
Radiated Emission	6.3 dB	6.3 dB	6.3 dB	6.3 dB	6.3 dB

1.4. Test Site Environment

Items	Required (IEC 68-1)	Interval(*)
Temperature (°C)	15-35	20-30
Humidity (%RH)	25-75	45-75
Barometric pressure (mbar)	860-1060	990-1005

(*)The measurement ambient temperature is within this range.

Test Setting Condition		
L.V.	Low Voltage	DC 3.27 V
N.V.	Normal Voltage	DC 3.85 V
H.V.	High Voltage	DC 4.43 V
L.T.	Low Temperature	-20 ℃
N.T.	Normal Temperature	+25 ℃
H.T.	High Temperature	+60 ℃

2 EUT Description

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity(except E.R.P. /E.I.R.P., Occupied Bandwidth, Emission Designator).

Applicant	Micro-Star INT'L CO., LTD. No.69, Lide St., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C)		
Product Name	Industrial Data Machine		
Trade Name	msi		
Model Number	MS-C923		
FCC ID	I4L-MSC923		
IMEI No.	869283050935867		
Operate Band	Frequency Range (MHz)	Modulation	Channel Bandwidth
LTE Band 2	UL: 1850 ~ 1910	QPSK, 16QAM	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	DL: 1930 ~ 1990		
LTE Band 4	UL: 1710 ~ 1755		1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	DL: 2110 ~ 2155		
LTE Band 5	UL: 824 ~ 849		1.4 MHz, 3 MHz, 5 MHz, 10 MHz
	DL: 869 ~ 894		
LTE Band 7	UL: 2500 ~ 2570		5 MHz, 10 MHz, 15 MHz, 20 MHz
	DL: 2620 ~ 2690		
LTE Band 12	UL: 699 ~ 716		1.4 MHz, 3 MHz, 5 MHz, 10 MHz
	DL: 728 ~ 746		
LTE Band 13	UL: 777 ~ 787		5 MHz, 10 MHz
	DL: 746 ~ 756		
LTE Band 14 (Part 90R)	UL: 788 ~ 798		5 MHz, 10 MHz
	DL: 758 ~ 768		
LTE Band 25	UL: 1850 ~ 1915		1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	DL: 1930 ~ 1995		
LTE Band 26 (Part 22)	UL: 824 ~ 849		1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz
	DL: 869 ~ 894		
LTE Band 26 (Part 90S)	UL: 814.7 ~ 823.3		1.4 MHz, 3 MHz, 5 MHz, 10 MHz
	DL: 859.7 ~ 868.3		
LTE Band 38 (Part 27)	UL/DL: 2570 ~ 2620		5 MHz, 10 MHz, 15 MHz, 20 MHz
LTE Band 41 (Part 27)	UL/DL: 2496 ~ 2690		5 MHz, 10 MHz, 15 MHz, 20 MHz
LTE Band 66	UL: 1710 ~ 1780		1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	DL: 2110 ~ 2200		
LTE Band 71	UL: 663 ~698		5 MHz, 10 MHz, 15 MHz, 20 MHz
	DL: 617 ~ 652		

	Type	Max. Gain (dBi)	
Antenna information	Dipole Antenna	LTE Band 2	2.44
		LTE Band 4	2.97
		LTE Band 5	-0.8
		LTE Band 7	-0.33
		LTE Band 12	1.38
		LTE Band 13	-0.04
		LTE Band 14	0
		LTE Band 25	2.44
		LTE Band 26	-0.52
		LTE Band 38	0.82
		LTE Band 41	0.82
		LTE Band 66	3.38
		LTE Band 71	1.87
Operate Temp. Range	-20 ~ 60 ℃		
EUT Power Rating	DC 19 V, 3.42 A		

Testing Sample No.	
Test Item	Sample Number
Radiated Emissions	C254288_A004
Conducted	C254288_A004

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.I.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 2	1.4 MHz	QPSK	18607	1850.7	3	3	24.65	2.44	27.09	0.512	≦ 2	1.0966	1M10G7D
		16QAM	18607	1850.7	3	1	23.87	2.44	26.31	0.428	≦ 2	1.0969	1M10W7D
	3 MHz	QPSK	19185	1908.5	1	0	24.55	2.44	26.99	0.500	≦ 2	2.713	2M70G7D
		16QAM	19185	1908.5	1	0	23.34	2.44	25.78	0.378	≦ 2	2.6955	2M70W7D
	5 MHz	QPSK	18625	1852.5	1	24	24.64	2.44	27.08	0.511	≦ 2	4.5124	4M50G7D
		16QAM	18625	1852.5	1	24	23.25	2.44	25.69	0.371	≦ 2	4.5279	4M50W7D
	10 MHz	QPSK	18650	1855	1	24	24.72	2.44	27.16	0.520	≦ 2	8.9998	9M00G7D
		16QAM	18650	1855	1	24	23.47	2.44	25.91	0.390	≦ 2	9.0285	9M00W7D
	15 MHz	QPSK	18675	1857.5	1	37	24.63	2.44	27.07	0.509	≦ 2	13.484	13M5G7D
		16QAM	19125	1902.5	1	37	23.62	2.44	26.06	0.404	≦ 2	13.471	13M5W7D
	20 MHz	QPSK	18700	1860	1	49	24.71	2.44	27.15	0.519	≦ 2	17.972	18M0G7D
		16QAM	19100	1900	1	49	23.46	2.44	25.90	0.389	≦ 2	17.961	18M0W7D
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.I.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 4	1.4 MHz	QPSK	19957	1710.7	3	3	24.70	2.97	27.67	0.585	≦ 1	1.0968	1M10G7D
		16QAM	20175	1732.5	3	1	23.72	2.97	26.69	0.467	≦ 1	1.0968	1M10W7D
	3 MHz	QPSK	20385	1753.5	1	14	24.67	2.97	27.64	0.581	≦ 1	2.7128	2M70G7D
		16QAM	20175	1732.5	1	0	23.45	2.97	26.42	0.439	≦ 1	2.695	2M70W7D
	5 MHz	QPSK	20375	1752.5	1	24	24.65	2.97	27.62	0.578	≦ 1	4.5137	4M50G7D
		16QAM	20175	1732.5	1	0	23.33	2.97	26.30	0.427	≦ 1	4.529	4M50W7D
	10 MHz	QPSK	20000	1715	1	49	24.70	2.97	27.67	0.585	≦ 1	9.0038	9M00G7D
		16QAM	20350	1750	1	49	23.36	2.97	26.33	0.430	≦ 1	9.0253	9M00W7D
	15 MHz	QPSK	20025	1717.5	1	74	24.76	2.97	27.73	0.593	≦ 1	13.474	13M5G7D
		16QAM	20025	1717.5	1	0	23.44	2.97	26.41	0.438	≦ 1	13.47	13M5W7D
	20 MHz	QPSK	20300	1745	1	0	24.75	2.97	27.72	0.592	≦ 1	17.955	18M0G7D
		16QAM	20175	1732.5	1	0	23.47	2.97	26.44	0.441	≦ 1	17.955	18M0W7D

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 5	1.4 MHz	QPSK	20407	824.7	3	3	24.75	-0.8	21.80	0.151	≦ 3	1.0987	1M10G7D
		16QAM	20407	824.7	3	3	23.78	-0.8	20.83	0.121	≦ 3	1.0967	1M10W7D
	3 MHz	QPSK	20525	836.5	1	7	24.71	-0.8	21.76	0.150	≦ 3	2.7136	2M70G7D
		16QAM	20525	836.5	1	7	23.57	-0.8	20.62	0.115	≦ 3	2.698	2M70W7D
	5 MHz	QPSK	20625	846.5	1	12	24.69	-0.8	21.74	0.149	≦ 3	4.5116	4M50G7D
		16QAM	20425	826.5	1	12	23.63	-0.8	20.68	0.117	≦ 3	4.5293	4M50W7D
	10 MHz	QPSK	20600	844	1	24	24.72	-0.8	21.77	0.150	≦ 3	9.0026	9M00G7D
		16QAM	20600	844	1	24	23.43	-0.8	20.48	0.112	≦ 3	9.0262	9M00W7D
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.I.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 7	5 MHz	QPSK	21100	2535	1	24	24.62	-0.33	24.29	0.269	≦ 2	4.5095	4M50G7D
		16QAM	21100	2535	1	0	23.19	-0.33	22.86	0.193	≦ 2	4.5265	4M50W7D
	10 MHz	QPSK	21100	2535	1	49	24.63	-0.33	24.30	0.269	≦ 2	8.9987	9M00G7D
		16QAM	21400	2565	1	49	23.33	-0.33	23.00	0.200	≦ 2	9.0224	9M00W7D
	15 MHz	QPSK	21100	2535	1	74	24.65	-0.33	24.32	0.270	≦ 2	13.493	13M5G7D
		16QAM	21375	2562.5	1	74	23.34	-0.33	23.01	0.200	≦ 2	13.477	13M5W7D
	20 MHz	QPSK	20850	2510	1	49	24.61	-0.33	24.28	0.268	≦ 2	17.969	18M0G7D
		16QAM	21350	2560	1	99	23.33	-0.33	23.00	0.200	≦ 2	17.969	18M0W7D
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 12	1.4 MHz	QPSK	23095	707.5	3	1	24.72	1.38	23.95	0.248	≦ 3	1.099	1M10G7D
		16QAM	23095	707.5	3	3	23.72	1.38	22.95	0.197	≦ 3	1.0963	1M10W7D
	3 MHz	QPSK	23095	707.5	1	7	24.77	1.38	24.00	0.251	≦ 3	2.7142	2M70G7D
		16QAM	23025	700.5	1	14	23.34	1.38	22.57	0.181	≦ 3	2.6966	2M70W7D
	5 MHz	QPSK	23095	707.5	1	12	24.65	1.38	23.88	0.244	≦ 3	4.5141	4M50G7D
		16QAM	23035	701.5	1	24	23.26	1.38	22.49	0.177	≦ 3	4.5281	4M50W7D
	10 MHz	QPSK	23060	704	1	49	24.63	1.38	23.86	0.243	≦ 3	9.0104	9M00G7D
		16QAM	23060	704	1	49	23.23	1.38	22.46	0.176	≦ 3	9.0351	9M00W7D

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 13	5 MHz	QPSK	23205	779.5	1	24	24.73	-0.04	22.54	0.179	≦ 3	4.5184	4M50G7D
		16QAM	23230	782	1	24	23.43	-0.04	21.24	0.133	≦ 3	4.5351	4M50W7D
	10 MHz	QPSK	23230	782	1	24	24.74	-0.04	22.55	0.180	≦ 3	8.9854	9M00G7D
		16QAM	23230	782	1	24	23.32	-0.04	21.13	0.130	≦ 3	9.0099	9M00W7D
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 14	5 MHz	QPSK	23330	793	1	24	24.79	0	22.64	0.184	≦ 3	4.5158	4M50G7D
		16QAM	23355	795.5	1	0	23.34	0	21.19	0.132	≦ 3	4.5344	4M50W7D
	10 MHz	QPSK	23330	793	1	49	24.74	0	22.59	0.182	≦ 3	8.9962	9M00G7D
		16QAM	23330	793	1	49	23.58	0	21.43	0.139	≦ 3	9.0167	9M00W7D
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.I.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 25	1.4 MHz	QPSK	26047	1850.7	3	1	24.77	2.44	27.21	0.526	≦ 2	1.0974	1M10G7D
		16QAM	26047	1850.7	3	1	23.60	2.44	26.04	0.402	≦ 2	1.1008	1M10W7D
	3 MHz	QPSK	26055	1851.5	1	7	24.67	2.44	27.11	0.514	≦ 2	2.7138	2M70G7D
		16QAM	26055	1851.5	1	0	23.39	2.44	25.83	0.383	≦ 2	2.6968	2M70W7D
	5 MHz	QPSK	26065	1852.5	1	24	24.60	2.44	27.04	0.506	≦ 2	4.5175	4M50G7D
		16QAM	26065	1852.5	1	0	23.35	2.44	25.79	0.379	≦ 2	4.5347	4M50W7D
	10 MHz	QPSK	26090	1855	1	24	24.62	2.44	27.06	0.508	≦ 2	9.0028	9M00G7D
		16QAM	26090	1855	1	0	23.37	2.44	25.81	0.381	≦ 2	9.028	9M00W7D
	15 MHz	QPSK	26115	1857.5	1	0	24.58	2.44	27.02	0.504	≦ 2	13.486	13M5G7D
		16QAM	26115	1857.5	1	37	23.60	2.44	26.04	0.402	≦ 2	13.477	13M5W7D
	20 MHz	QPSK	26140	1860	1	0	24.63	2.44	27.07	0.509	≦ 2	17.968	18M0G7D
		16QAM	26140	1860	1	0	23.49	2.44	25.93	0.392	≦ 2	17.957	18M0W7D

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 26 814~824MHz	1.4 MHz	QPSK	26783	823.3	3	1	24.66	-0.52	21.99	0.158	NA	1.0977	1M10G7D
		16QAM	26697	814.7	3	1	23.63	-0.52	20.96	0.125	NA	1.0974	1M10W7D
	3 MHz	QPSK	26705	815.5	1	7	24.58	-0.52	21.91	0.155	NA	2.7127	2M70G7D
		16QAM	26740	819	1	7	23.30	-0.52	20.63	0.116	NA	2.6966	2M70W7D
	5 MHz	QPSK	26740	819	1	12	24.65	-0.52	21.98	0.158	NA	4.5111	4M50G7D
		16QAM	26715	816.5	1	12	23.24	-0.52	20.57	0.114	NA	4.5273	4M50W7D
	10 MHz	QPSK	26740	819	1	24	24.52	-0.52	21.85	0.153	NA	8.9972	9M00G7D
		16QAM	26740	819	1	24	23.22	-0.52	20.55	0.114	NA	9.0213	9M00W7D
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 26 824~849MHz	1.4 MHz	QPSK	26915	836.5	3	3	24.56	-0.52	21.89	0.155	≦ 7	1.0983	1M10G7D
		16QAM	26915	836.5	3	1	23.63	-0.52	20.96	0.125	≦ 7	1.0967	1M10W7D
	3 MHz	QPSK	26805	825.5	1	7	24.50	-0.52	21.83	0.152	≦ 7	2.713	2M70G7D
		16QAM	26805	825.5	1	7	23.26	-0.52	20.59	0.115	≦ 7	2.6974	2M70W7D
	5 MHz	QPSK	26815	826.5	1	12	24.51	-0.52	21.84	0.153	≦ 7	4.512	4M50G7D
		16QAM	26815	826.5	1	12	23.18	-0.52	20.51	0.112	≦ 7	4.5282	4M50W7D
	10 MHz	QPSK	26990	844	1	24	24.55	-0.52	21.88	0.154	≦ 7	9.0015	9M00G7D
		16QAM	26990	844	1	24	23.29	-0.52	20.62	0.115	≦ 7	9.0244	9M00W7D
	15 MHz	QPSK	26965	841.5	1	37	24.64	-0.52	21.97	0.157	≦ 7	13.479	13M5G7D
		16QAM	26915	836.5	1	37	23.33	-0.52	20.66	0.116	≦ 7	13.473	13M5W7D
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.I.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 38	5 MHz	QPSK	38000	2595	1	12	24.61	0.82	25.43	0.349	≦ 2	4.5192	4M50G7D
		16QAM	37775	2572.5	1	0	22.95	0.82	23.77	0.238	≦ 2	4.5362	4M50W7D
	10 MHz	QPSK	38200	2615	1	24	24.66	0.82	25.48	0.353	≦ 2	9.0197	9M00G7D
		16QAM	38200	2615	1	24	23.05	0.82	23.87	0.244	≦ 2	8.9932	9M00W7D
	15 MHz	QPSK	37825	2577.5	1	37	24.65	0.82	25.47	0.352	≦ 2	13.512	13M5G7D
		16QAM	37825	2577.5	1	0	23.05	0.82	23.87	0.244	≦ 2	13.492	13M5W7D
	20 MHz	QPSK	38000	2595	1	49	24.62	0.82	25.44	0.350	≦ 2	17.983	18M0G7D
		16QAM	38150	2610	1	49	23.07	0.82	23.89	0.245	≦ 2	17.979	18M0W7D

Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.I.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 41	5 MHz	QPSK	41565	2687.5	1	12	24.60	0.82	25.42	0.348	≦ 2	4.5213	4M50G7D
		16QAM	41565	2687.5	1	12	23.23	0.82	24.05	0.254	≦ 2	4.5387	4M50W7D
	10 MHz	QPSK	41540	2685	1	49	24.63	0.82	25.45	0.351	≦ 2	9.0295	9M00G7D
		16QAM	41540	2685	1	24	23.32	0.82	24.14	0.259	≦ 2	8.9926	9M00W7D
	15 MHz	QPSK	41515	2682.5	1	74	24.61	0.82	25.43	0.349	≦ 2	13.513	13M5G7D
		16QAM	41515	2682.5	1	0	23.21	0.82	24.03	0.253	≦ 2	13.485	13M5W7D
	20 MHz	QPSK	41490	2680	1	99	24.57	0.82	25.39	0.346	≦ 2	17.978	18M0G7D
		16QAM	41490	2680	1	49	23.36	0.82	24.18	0.262	≦ 2	17.984	18M0W7D
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.I.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 66	1.4 MHz	QPSK	131979	1710.7	3	1	24.75	3.38	28.13	0.650	≦ 1	1.0931	1M10G7D
		16QAM	132322	1745	3	1	23.71	3.38	27.09	0.512	≦ 1	1.1039	1M10W7D
	3 MHz	QPSK	131987	1711.5	1	0	24.63	3.38	28.01	0.632	≦ 1	2.7116	2M70G7D
		16QAM	132322	1745	1	7	23.35	3.38	26.73	0.471	≦ 1	2.7003	2M70W7D
	5 MHz	QPSK	232647	1777.5	1	24	24.65	3.38	28.03	0.635	≦ 1	4.5013	4M50G7D
		16QAM	131997	1712.5	1	0	23.35	3.38	26.73	0.471	≦ 1	4.5025	4M50W7D
	10 MHz	QPSK	132622	1775	1	0	24.64	3.38	28.02	0.634	≦ 1	9.0234	9M00G7D
		16QAM	132622	1775	1	49	23.28	3.38	26.66	0.463	≦ 1	8.9629	9M00W7D
	15 MHz	QPSK	132047	1717.5	1	74	24.68	3.38	28.06	0.640	≦ 1	13.497	13M5G7D
		16QAM	132047	1717.5	1	0	23.29	3.38	26.67	0.465	≦ 1	13.466	13M5W7D
	20 MHz	QPSK	132072	1720	1	49	24.65	3.38	28.03	0.635	≦ 1	18.055	18M1G7D
		16QAM	132322	1745	1	0	23.44	3.38	26.82	0.481	≦ 1	17.966	18M0W7D
Band	Channel Bandwidth	Modulation	CH	Frequency	RB Configuration		Average Power	Antenna Gain	E.R.P.		Limit	Occupied Bandwidth	Emission Designator
				(MHz)	Size	Offset	(dBm)	(dBi)	(dBm)	(W)	(W)	(MHz)	
LTE Band 71	5 MHz	QPSK	133297	680.5	1	12	24.57	1.87	24.29	0.269	≦ 3	4.5011	4M50G7D
		16QAM	133147	665.5	1	12	24.27	1.87	23.99	0.251	≦ 3	4.5046	4M50W7D
	10 MHz	QPSK	133172	668	1	24	24.51	1.87	24.23	0.265	≦ 3	9.0245	9M00G7D
		16QAM	133422	693	1	49	24.25	1.87	23.97	0.249	≦ 3	8.9655	9M00W7D
	15 MHz	QPSK	133297	680.5	1	37	24.54	1.87	24.26	0.267	≦ 3	13.519	13M5G7D
		16QAM	133197	670.5	1	0	24.29	1.87	24.01	0.252	≦ 3	13.484	13M5W7D
	20 MHz	QPSK	133372	688	1	49	24.53	1.87	24.25	0.266	≦ 3	18.031	18M0G7D
		16QAM	133372	688	1	49	24.30	1.87	24.02	0.252	≦ 3	17.95	18M0W7D

2.1. Mode of Operation

Three channels had been tested for each channel bandwidth.

LTE Band 2						
Channel Bandwidth	1.4 MHz		3 MHz		5 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	18607	1850.7	18615	1851.5	18625	1852.5
Middle CH	18900	1880.0	18900	1880.0	18900	1880.0
High CH	19193	1909.3	19185	1908.5	19175	1907.5
Channel Bandwidth	10 MHz		15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	18650	1855.0	18675	1857.5	18700	1860.0
Middle CH	18900	1880.0	18900	1880.0	18900	1880.0
High CH	19150	1905.0	19125	1902.5	19100	1900.0

LTE Band 4						
Channel Bandwidth	1.4 MHz		3 MHz		5 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	19957	1710.7	19965	1711.5	19975	1712.5
Middle CH	20175	1732.5	20175	1732.5	20175	1732.5
High CH	20393	1754.3	20385	1753.5	20375	1752.5
Channel Bandwidth	10 MHz		15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20000	1715.0	20025	1717.5	20050	1720.0
Middle CH	20175	1732.5	20175	1732.5	20175	1732.5
High CH	20350	1750.0	20325	1747.5	20300	1745.0

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 5				
Channel Bandwidth	1.4 MHz		3 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20407	824.7	20415	825.5
Middle CH	20525	836.5	20525	836.5
High CH	20643	848.3	20635	847.5
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20425	826.5	20450	829.0
Middle CH	20525	836.5	20525	836.5
High CH	20625	846.5	20600	844.0

LTE Band 7				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20775	2502.5	20800	2505.0
Middle CH	21100	2535.0	21100	2535.0
High CH	21425	2567.5	21400	2565.0
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20825	2507.5	20850	2510.0
Middle CH	21100	2535.0	21100	2535.0
High CH	21375	2562.5	21350	2560.0

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 12				
Channel Bandwidth	1.4 MHz		3 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23017	699.7	23025	700.5
Middle CH	23095	707.5	23095	707.5
High CH	23173	715.3	23165	714.5
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23035	701.5	23060	704.0
Middle CH	23095	707.5	23095	707.5
High CH	23155	713.5	23130	711.0

LTE Band 13				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23205	779.5	---	---
Middle CH	23230	782.0	23230	782.0
High CH	23255	784.5	---	---

LTE Band 14				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23305	790.5	---	---
Middle CH	23330	793	23330	793
High CH	23355	795.5	---	---

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 25						
Channel Bandwidth	1.4 MHz		3 MHz		5 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	26047	1850.7	26055	1851.5	26065	1852.5
Middle CH	26365	1882.5	26365	1882.5	26365	1882.5
High CH	26683	1914.3	26675	1913.5	26665	1912.5
Channel Bandwidth	10 MHz		15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	26090	1855	26115	1857.5	26140	1860
Middle CH	26365	1882.5	26365	1882.5	26365	1882.5
High CH	26640	1910	26615	1907.5	26590	1905

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 26 (Part 22)						
Channel Bandwidth	1.4 MHz		3 MHz		5 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	26797	824.7	26805	825.5	26815	826.5
Middle CH	26915	836.5	26915	836.5	26915	836.5
High CH	27003	848.3	27025	847.5	27015	846.5
Channel Bandwidth	10 MHz		15 MHz		NA	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	NA	NA
Low CH	26840	829.0	26865	831.5	NA	NA
Middle CH	26915	836.5	26915	836.5	NA	NA
High CH	26990	844.0	26965	841.5	NA	NA

LTE Band 26 (Part 90S)				
Channel Bandwidth	1.4 MHz		3 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	26697	814.7	26705	815.5
Middle CH	26740	819.0	26740	819.0
High CH	26783	823.3	26775	822.5
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	26715	816.5	26740	819.0
Middle CH	26740	819.0		
High CH	26765	821.5		

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 38 (Part 27)				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	37775	2572.5	37800	2575
Middle CH	38000	2595.0	38000	2595.0
High CH	38225	2617.5	38200	2615
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	37825	2577.5	37850	2580.0
Middle CH	38000	2595.0	38000	2595.0
High CH	38175	2612.5	38150	2610

LTE Band 41 (Part 27)				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	39675	2498.5	39700	2501.0
Middle CH	40620	2593.0	40620	2593.0
High CH	41565	2687.5	41540	2685.0
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	39725	2503.5	39750	2506.0
Middle CH	40620	2593.0	40620	2593.0
High CH	41515	2682.5	41490	2680.0

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

LTE Band 66						
Channel Bandwidth	1.4 MHz		3 MHz		5 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	131979	1710.7	131987	1711.5	131997	1712.5
Middle CH	132322	1745.0	132322	1745.0	132322	1745.0
High CH	132665	1779.3	132657	1778.5	132647	1777.5
Channel Bandwidth	10 MHz		15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	132022	1715.0	132047	1717.5	132072	1720.0
Middle CH	132322	1745.0	132322	1745.0	132322	1745.0
High CH	132622	1775.0	132597	1772.5	132572	1770.0

LTE Band 71				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	133147	665.5	133172	668
Middle CH	133297	680.5	133297	680.5
High CH	133447	695.5	133422	693
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	133197	670.5	133222	673
Middle CH	133297	680.5	133322	683
High CH	133397	690.5	133372	688

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission: 9 kHz to10th Harmonic

Band	Channel Bandwidth	Test Modes	
LTE Band 2	1.4 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 2) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 0) Link ☐ LTE(RB Size 3, RB Offset 1) Link ■ LTE(RB Size 3, RB Offset 3) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	■ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 7) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 0) Link ☐ LTE(RB Size 8, RB Offset 3) Link ☐ LTE(RB Size 8, RB Offset 7) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 37) Link ☐ LTE(RB Size 1, RB Offset 74) Link ☐ LTE(RB Size 36, RB Offset 0) Link ☐ LTE(RB Size 36, RB Offset 19) Link ☐ LTE(RB Size 36, RB Offset 39) Link ☐ LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 1, RB Offset 99) Link ☐ LTE(RB Size 50, RB Offset 0) Link ☐ LTE(RB Size 50, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 50) Link ☐ LTE(RB Size 100, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 4	1.4 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 2) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 0) Link ☐ LTE(RB Size 3, RB Offset 1) Link ■ LTE(RB Size 3, RB Offset 3) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 7) Link ■ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 0) Link ☐ LTE(RB Size 8, RB Offset 3) Link ☐ LTE(RB Size 8, RB Offset 7) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ■ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 37) Link ■ LTE(RB Size 1, RB Offset 74) Link ☐ LTE(RB Size 36, RB Offset 0) Link ☐ LTE(RB Size 36, RB Offset 19) Link ☐ LTE(RB Size 36, RB Offset 39) Link ☐ LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	■ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 1, RB Offset 99) Link ☐ LTE(RB Size 50, RB Offset 0) Link ☐ LTE(RB Size 50, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 50) Link ☐ LTE(RB Size 100, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 5	1.4 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 2) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 0) Link ☐ LTE(RB Size 3, RB Offset 1) Link ■ LTE(RB Size 3, RB Offset 3) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 7) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 0) Link ☐ LTE(RB Size 8, RB Offset 3) Link ☐ LTE(RB Size 8, RB Offset 7) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
LTE Band 7	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ■ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 37) Link ■ LTE(RB Size 1, RB Offset 74) Link ☐ LTE(RB Size 36, RB Offset 0) Link ☐ LTE(RB Size 36, RB Offset 19) Link ☐ LTE(RB Size 36, RB Offset 39) Link ☐ LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 1, RB Offset 99) Link ☐ LTE(RB Size 50, RB Offset 0) Link ☐ LTE(RB Size 50, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 50) Link ☐ LTE(RB Size 100, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 12	1.4 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 2) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 0) Link ■ LTE(RB Size 3, RB Offset 1) Link ☐ LTE(RB Size 3, RB Offset 3) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 7) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 0) Link ☐ LTE(RB Size 8, RB Offset 3) Link ☐ LTE(RB Size 8, RB Offset 7) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ■ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
LTE Band 13	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
LTE Band 14	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ■ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 25	1.4 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 2) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 0) Link ■ LTE(RB Size 3, RB Offset 1) Link ☐ LTE(RB Size 3, RB Offset 3) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 7) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 0) Link ☐ LTE(RB Size 8, RB Offset 3) Link ☐ LTE(RB Size 8, RB Offset 7) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	■ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 37) Link ☐ LTE(RB Size 1, RB Offset 74) Link ☐ LTE(RB Size 36, RB Offset 0) Link ☐ LTE(RB Size 36, RB Offset 19) Link ☐ LTE(RB Size 36, RB Offset 39) Link ☐ LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	■ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 1, RB Offset 99) Link ☐ LTE(RB Size 50, RB Offset 0) Link ☐ LTE(RB Size 50, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 50) Link ☐ LTE(RB Size 100, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 26 (Part 22)	1.4 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 2) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 0) Link ☐ LTE(RB Size 3, RB Offset 1) Link ■ LTE(RB Size 3, RB Offset 3) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 7) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 0) Link ☐ LTE(RB Size 8, RB Offset 3) Link ☐ LTE(RB Size 8, RB Offset 7) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 37) Link ☐ LTE(RB Size 1, RB Offset 74) Link ☐ LTE(RB Size 36, RB Offset 0) Link ☐ LTE(RB Size 36, RB Offset 19) Link ☐ LTE(RB Size 36, RB Offset 39) Link ☐ LTE(RB Size 75, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 26 (Part 90S)	1.4 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 2) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 0) Link ■ LTE(RB Size 3, RB Offset 1) Link ☐ LTE(RB Size 3, RB Offset 3) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 7) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 0) Link ☐ LTE(RB Size 8, RB Offset 3) Link ☐ LTE(RB Size 8, RB Offset 7) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 38 (Part 27)	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 37) Link ☐ LTE(RB Size 1, RB Offset 74) Link ☐ LTE(RB Size 36, RB Offset 0) Link ☐ LTE(RB Size 36, RB Offset 19) Link ☐ LTE(RB Size 36, RB Offset 39) Link ☐ LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 1, RB Offset 99) Link ☐ LTE(RB Size 50, RB Offset 0) Link ☐ LTE(RB Size 50, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 50) Link ☐ LTE(RB Size 100, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 41 (Part 27)	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ■ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 37) Link ■ LTE(RB Size 1, RB Offset 74) Link ☐ LTE(RB Size 36, RB Offset 0) Link ☐ LTE(RB Size 36, RB Offset 19) Link ☐ LTE(RB Size 36, RB Offset 39) Link ☐ LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 49) Link ■ LTE(RB Size 1, RB Offset 99) Link ☐ LTE(RB Size 50, RB Offset 0) Link ☐ LTE(RB Size 50, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 50) Link ☐ LTE(RB Size 100, RB Offset 0) Link	QPSK

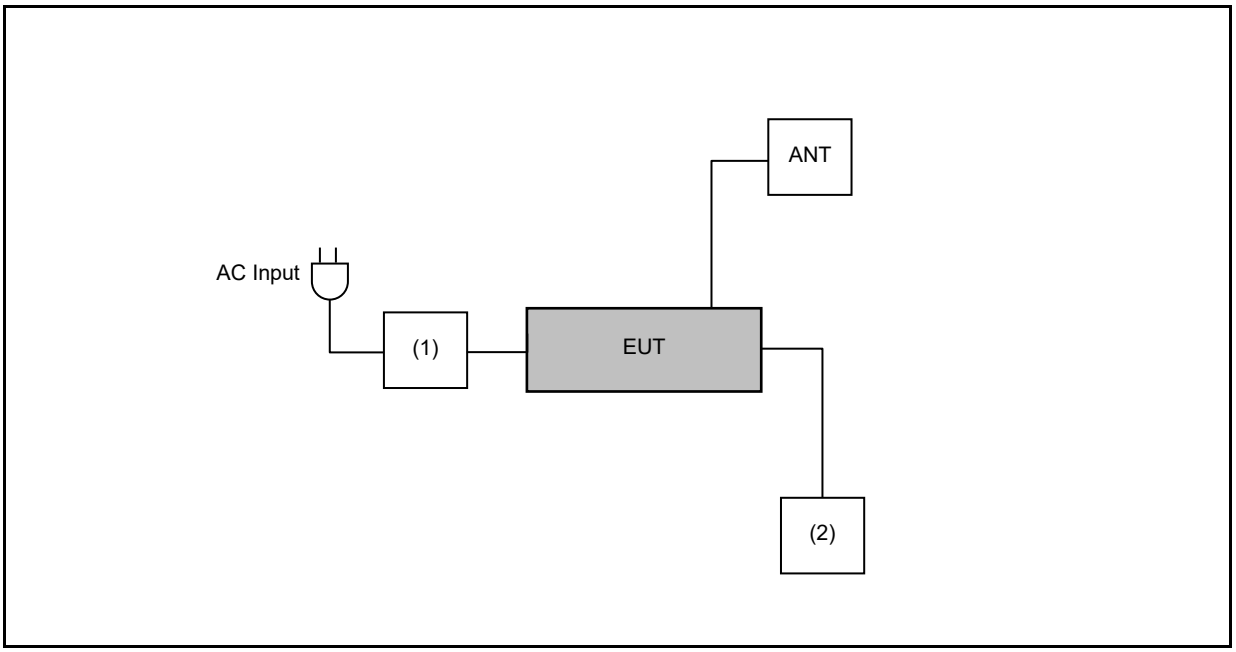
Band	Channel Bandwidth	Test Modes	
LTE Band 66	1.4 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 2) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 0) Link ■ LTE(RB Size 3, RB Offset 1) Link ☐ LTE(RB Size 3, RB Offset 3) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	■ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 7) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 0) Link ☐ LTE(RB Size 8, RB Offset 3) Link ☐ LTE(RB Size 8, RB Offset 7) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	■ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 37) Link ■ LTE(RB Size 1, RB Offset 74) Link ☐ LTE(RB Size 36, RB Offset 0) Link ☐ LTE(RB Size 36, RB Offset 19) Link ☐ LTE(RB Size 36, RB Offset 39) Link ☐ LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 1, RB Offset 99) Link ☐ LTE(RB Size 50, RB Offset 0) Link ☐ LTE(RB Size 50, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 50) Link ☐ LTE(RB Size 100, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 71	5 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 37) Link ☐ LTE(RB Size 1, RB Offset 74) Link ☐ LTE(RB Size 36, RB Offset 0) Link ☐ LTE(RB Size 36, RB Offset 19) Link ☐ LTE(RB Size 36, RB Offset 39) Link ☐ LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	☐ LTE(RB Size 1, RB Offset 0) Link ■ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 1, RB Offset 99) Link ☐ LTE(RB Size 50, RB Offset 0) Link ☐ LTE(RB Size 50, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 50) Link ☐ LTE(RB Size 100, RB Offset 0) Link	QPSK

2.2. EUT Test Step

1	Setup the EUT shown on “Configuration of Test System Details”.
2	Turn on the power of all equipment.
3	EUT run test program test.

2.3. Configuration of Test System Details



Devices Description					
Product		Manufacturer	Model Number	Serial Number	Power Cord
(1)	Adapter	Microseni	PD-9501GR/AC	---	---
(2)	Monitor	ASUS	VP327	---	---

2.4. Test Instruments

For Conducted
Test Period: May 16, 2025 ~ Jun. 02, 2025
Testing Engineer: Eric Ou Yang, Amy Wen

Test Site		RF02-BD				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☐	Divider	Warison	WDIV-2I0.5-26.5S20	WR222AM2B1	Feb. 18, 2025	1 year
☒	Divider	Warison	WDIV-2I0.5-26.5S20	WR222AM2B2	Aug. 26, 2024	1 year
☐	Spectrum Analyzer (3 Hz~13.2 GHz)	Agilent	E4445A	MY45300744	Oct. 24, 2024	1 year
☒	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Mar. 07, 2025	1 year
☐	Universal Radio Communication Tester	R&S	CMU200	112387	Mar. 24, 2025	1 year
☐	Wideband Radio Communication Tester	R&S	CMW500	170768	Nov. 30, 2022	1 year
☐	Universal Radio Communication Tester	Agilent	E5515C	MY47511156	Sep. 09, 2024	1 year
☐	Radio Communication Analyzer	Anritsu	MT8820C	6201342039	Dec. 02, 2024	1 year
☒	Radio Communication Analyzer	Anritsu	MT8821C	6201300618	Jun. 06, 2024	1 year
☐	Radio Communication Analyzer	Anritsu	MT8000A	6272354178	Jan. 09, 2025	1 year
☐	UXM 5G Wireless Test Platform	Keysight	E7515B	MY59321574	Jul. 17, 2024	1 year
☐	Signalling Tester	Anritsu	MD8475A	6201357755	Feb. 23, 2025	1 year
☐	USB sound vibration measurement system	National Instruments	USB-4432	1AF01D4	Sep. 03, 2024	1 year
☐	USB sound vibration measurement system	PCB	352C65	LW161409	Sep. 03, 2024	1 year
☐	USB sound vibration measurement system	G.R.A.S	40PH	186006	Aug. 28, 2024	1 year
☒	Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	Mar. 26, 2025	1 year
☐	Electromagnetic high frequency vibration testing machine	KING DESIGN	KD-9363-EM-30F4K-10N10	RZ110218299	Aug. 16, 2024	1 year
☐	Power Supply	KEITHLEY	2303	4045290	Jan. 03, 2025	1 year
☐	Power Supply	IDRC	CP-268	268711	Dec. 19, 2024	1 year
☒	Power Supply	GW	SPD-3606	GEP891818	Nov. 14, 2024	1 year
☐	Software	PWS Test	1.1.1	N/A	N.C.R.	---
☐	Software	EZ EMC	1.1.4.4	N/A	N.C.R.	---

☒ means with testing used ;
☐ means without testing used
Note: N.C.R. = No Calibration Request..

For Radiated Emissions
Test Period: Jun. 05, 2025 ~ Jun. 06, 2025
Testing Engineer: Hung Chou

Test Site		96603-BD				
Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☐	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	Jan. 04, 2024	1 year
☐	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Dec. 27, 2023	1 year
☒	Spectrum Analyzer (2 Hz~50 GHz)	Keysight	N9030B	MY57143537	Apr. 18, 2023	1 year
☐	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9020B	MY60112363	Jan. 10, 2024	1 year
☒	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	Jan. 10, 2024	1 year
☐	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A10961	Jul. 10, 2023	1 year
☐	Broadband Amplifier (100 kHz~1 GHz)	Titan	T0910E00014330 A1F	001	Jul. 24, 2023	1 year
☐	Amplifier (1 GHz~26.5 GHz)	Agilent	8449B	3008A02237	Oct. 31, 2023	1 year
☒	Broadband Amplifier (1 GHz~26.5 GHz)	Titan	T0912E01263025 A1F	002	Jul. 24, 2023	1 year
☐	Preamplifier (26.5 GHz~40 GHz)	EMCI	EMC2654045	980028	Sep. 01, 2023	1 year
☐	Preamplifier (18 GHz~40 GHz)	EMCI	EMC184045SE	980861	Dec. 21, 2023	1 year
☒	Loop Antenna (9 kHz~30 MHz)	COM-POWER CORPORATION	AL-130	121014	Mar. 23, 2023	1 year
☒	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	01146	Jun. 26, 2023	1 year
☐	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	416	Jun. 13,2023	1 year
☒	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	02207	Jul. 07, 2023	1 year
☐	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	9120D-550	Jul. 21, 2023	1 year
☐	Broadband Horn Antenna (18 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	9170	9170-320	Jul. 21, 2023	1 year
☐	Horn Antenna (18 GHz~40 GHz)	ETS	3116	00086467	Dec. 08, 2023	1 year

☒ means with testing used ;
☐ means without testing used
Note: N.C.R. = No Calibration Request.

For Radiated Emissions
Test Period: Jun. 05, 2025 ~ Jun. 06, 2025
Testing Engineer: Hung Chou

Test Site		96603-BD				
Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Coaxial Cable	Titan	T0710AT327A10A 100	J11005	Aug. 10, 2023	1 year
☒	Coaxial Cable	Titan	T0710AT327A10A 900	J11004	Aug. 10, 2023	1 year
☒	Coaxial Cable	Titan	CFD400NL-LW	001	Aug. 10, 2023	1 year
☐	Universal Radio Communication Tester	R&S	CMU200	112387	Feb. 24, 2023	1 year
☐	Wideband Radio Communication Tester	R&S	CMW500	170768	Nov. 30, 2022	2 year
☐	Universal Radio Communication Tester	Agilent	E5515C	MY47511156	Sep. 01, 2023	1 year
☐	Radio Communication Analyzer	Anritsu	MT8820C	6201342039	Nov. 30, 2023	1 year
☐	Radio Communication Analyzer	Anritsu	MT8821C	6201300618	Jun. 07, 2023	1 year
☐	UXM 5G Wireless Test Platform	Keysight	E7515B	MY59321574	Jul. 21, 2023	1 year
☐	Radio Communication Analyzer	Anritsu	MT8000A	6272354178	Jan. 11, 2024	1 year
☐	Millimeter-Wave Signal Analyzer Frequency Extension Module (50-75GHz)	VDI	N9029AV15 (SAX 410)	US54250165	Aug. 23, 2023	2 years
☐	Millimeter-Wave Signal Analyzer Frequency Extension Module (60-90GHz)	VDI	N9029AV12 (SAX 409)	US54250171	Aug. 23, 2023	2 years
☐	Millimeter-Wave Signal Analyzer Frequency Extension Module (90-140GHz)	VDI	N9029AV08 (SAX 406)	US53250013	Aug. 24, 2023	2 years

☒ means with testing used ;
☐ means without testing used
Note: N.C.R. = No Calibration Request.

For Radiated Emissions
Test Period: Jun. 05, 2025 ~ Jun. 06, 2025
Testing Engineer: Hung Chou

Test Site		96603-BD				
Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☐	Millimeter-Wave Signal Analyzer Frequency Extension Module (140-220GHz)	VDI	N9029AV05 (SAX 407)	US53250020	Aug. 28, 2023	2 years
☐	Millimeter-Wave Signal Analyzer Frequency Extension Module (220-330GHz)	VDI	N9029AV03 (SAX 408)	US53250022	Aug. 28, 2023	2 years
☐	Horn Antenna (33-50GHz)	QuinStar	QWH-QPRR00	1231900027	Aug. 21, 2023	2 years
☐	Std Gain Horn Antenna Std Gain (50-75GHz)	VDI	N9029AH15 (WR15)	WR15-01	Aug. 22, 2023	2 years
☐	Std Gain Horn Antenna Std Gain (60-90GHz)	VDI	N9029AH12 (WR12)	WR12-01	Aug. 22, 2023	2 years
☐	Std Gain Horn Antenna Std Gain (90-140GHz)	VDI	N9029AH08 (WR8.0)	WR08-01	Aug. 22, 2023	2 years
☐	Std Gain Horn Antenna Std Gain (140-220GHz)	VDI	N9029AH05 (WR5.0)	WR05-01	Aug. 28, 2023	2 years
☐	Std Gain Horn Antenna Std Gain (220-325GHz)	VDI	N9029AH03 (WR3.4)	WR3.4-01	Aug. 28, 2023	2 years
☒	Software	R_RAN	1.4	N/A	N.C.R.	---
☐	Software	EZ EMC	1.1.4.4	N/A	N.C.R.	---

☒ means with testing used ;
☐ means without testing used
Note: N.C.R. = No Calibration Request.

3 Measurement Procedure

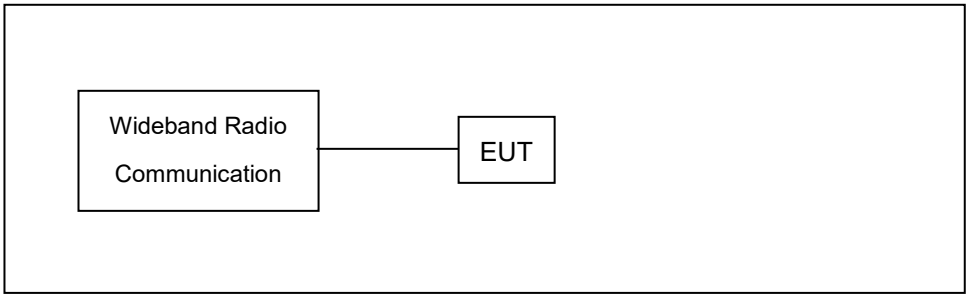
3.1. Conducted Output Average Power Test

■ Limit

N/A

■ Test Setup

(For dBm/Channel BW)



■ Test Procedure

(For dBm/Channel BW)

a. The EUT was set up for the maximum power with simulator.

b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.2. Effective Radiated Power / Equivalent Isotropic Radiated Power Test

■ Limit

(For B5,26)

§22.913(a)(5): The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

(For B2,25)

§24.232(c): The E.I.R.P. of Mobile and portable stations test transmitters must not exceed 2 Watts.

(For B13)

§27.50(b)(9): Control stations and mobile stations transmitting in the 746-757 MHz, and 776-788 MHz and 805-806 MHz bands are limited to 30 watts ERP.

(For B12,17)

§27.50(c)(9): Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

(For B71)

§27.50(c)(10): Portable stations (hand-held devices), fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

(For B4,66)

§27.50(d)(4): Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

(For B7,38,41)

§27.50(h)(2): Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

(For P90R、B14)

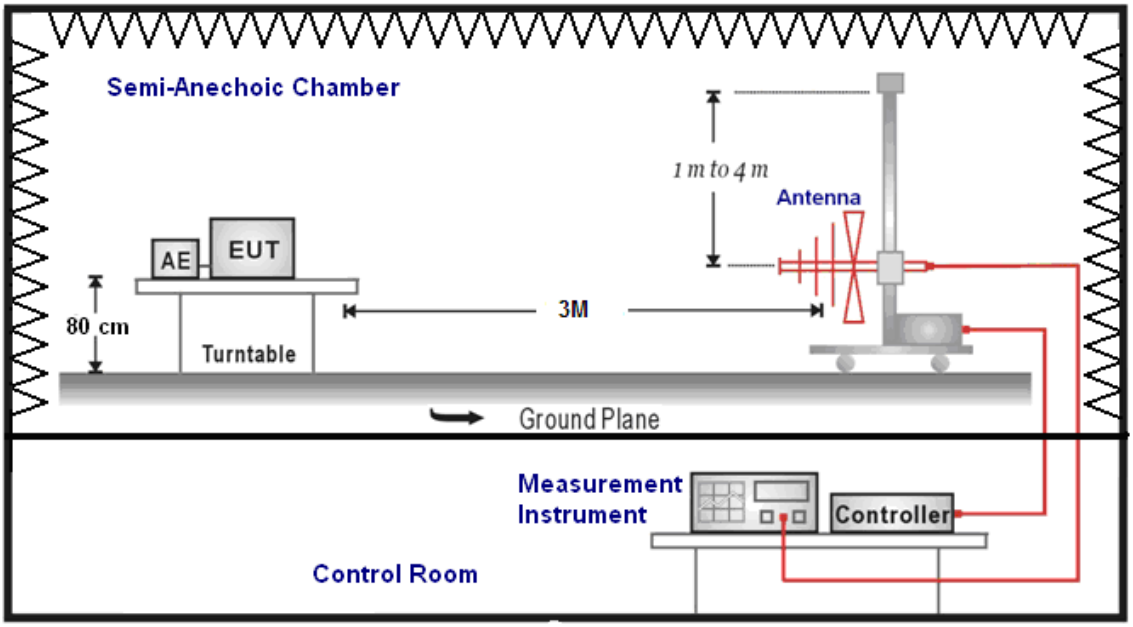
§90.542(a)(6): Control and mobile stations in the 758-768 MHz band and the 788-798 MHz are limited to 30 watts ERP.

(For P90S、B26)

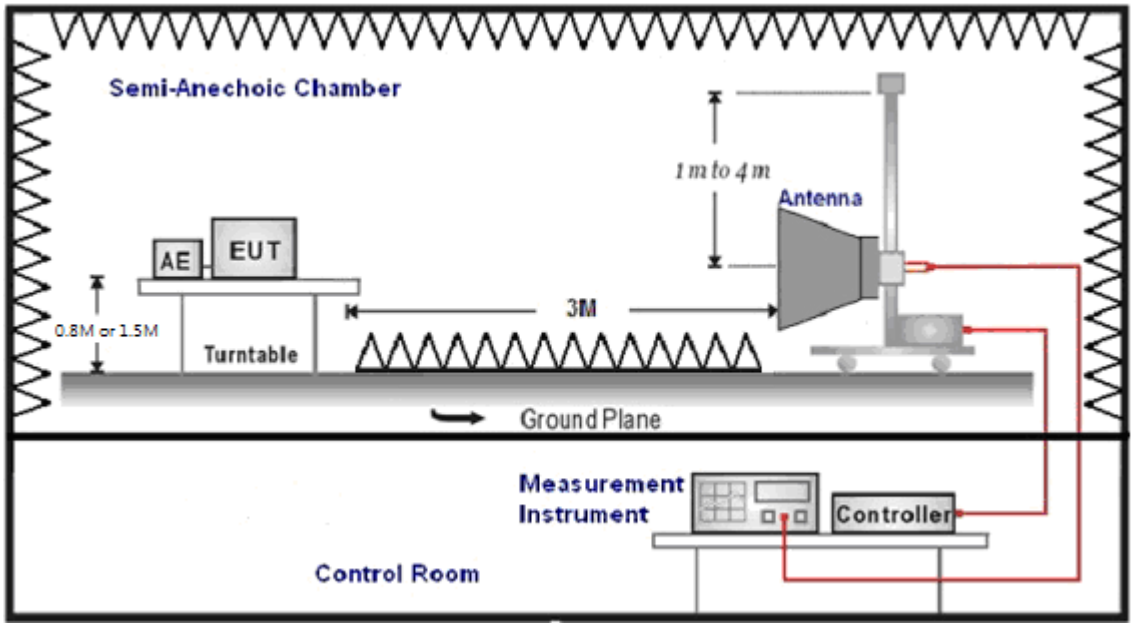
§90.635(b): ERP maximum power is 100 watts for mobile stations.

■ Test Setup

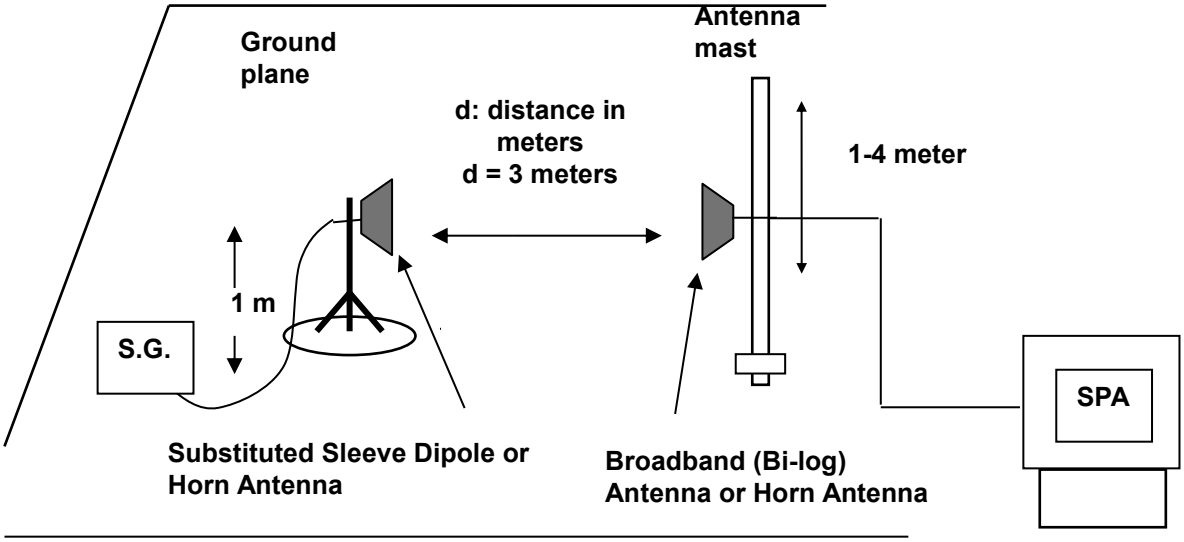
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



■ Test Procedure

a. The EUT was set up for the maximum power with WWAN link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range).

b. E.I.R.P power measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (1.5 m for above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

c. The substitution antenna (Note:1 & 2) is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G.

d. E.I.R.P. = Output power level of S.G - TX cable loss + Antenna gain of substitution horn

e. E.R.P. = E.I.R.P- 2.15 dB

Note: 1. Below 1 GHz Substituted Method Test：Sleeve dipole antenna to Bi-Log Antenna

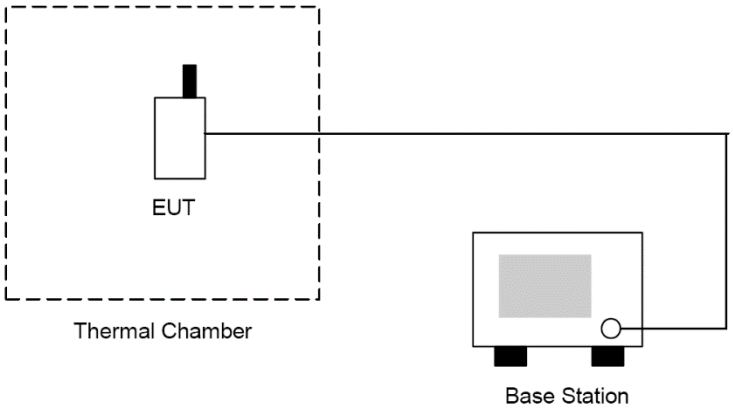
2. Above 1 GHz Substituted Method Test：Horn antenna to Horn Antenna

3.3. Frequency Stability Test

■ Limit

According to the FCC rule shall be tested the frequency stability. The rule is defined that" The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation. The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with the 2.1055(a)(1) -30 °C ~ 50 °C.

■ Setup



■ Test Procedure

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to -30 ℃ and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
3. With power OFF, the temperature was raised in 10 ℃ steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The EUT was placed in a temperature chamber at 25±5 ℃ and connected as the following section.
5. The power supply voltage to the EUT was varied from BEP to 115 % of the nominal value measured at the input to the EUT.
6. The temperature tests were performed for the worst case.
7. Test data was recorded.

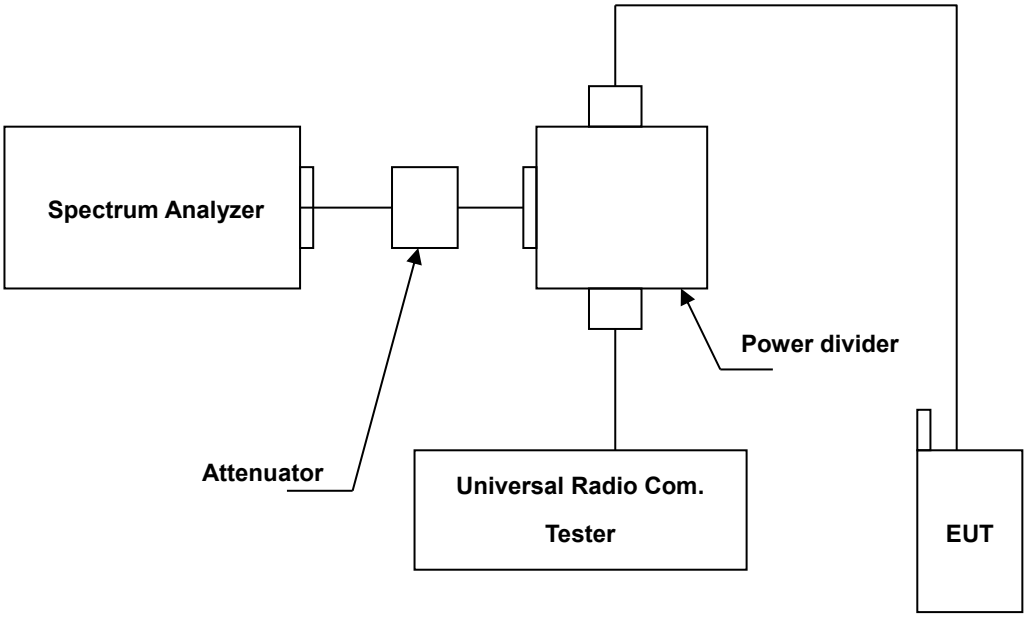
3.4. Emission Bandwidth & Occupied Bandwidth Test

■ Limit

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

■ Setup



■ Test Procedure

a. The EUT makes a phone call to the communication simulator. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels. (low, middle and high operational frequency range.)

b. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

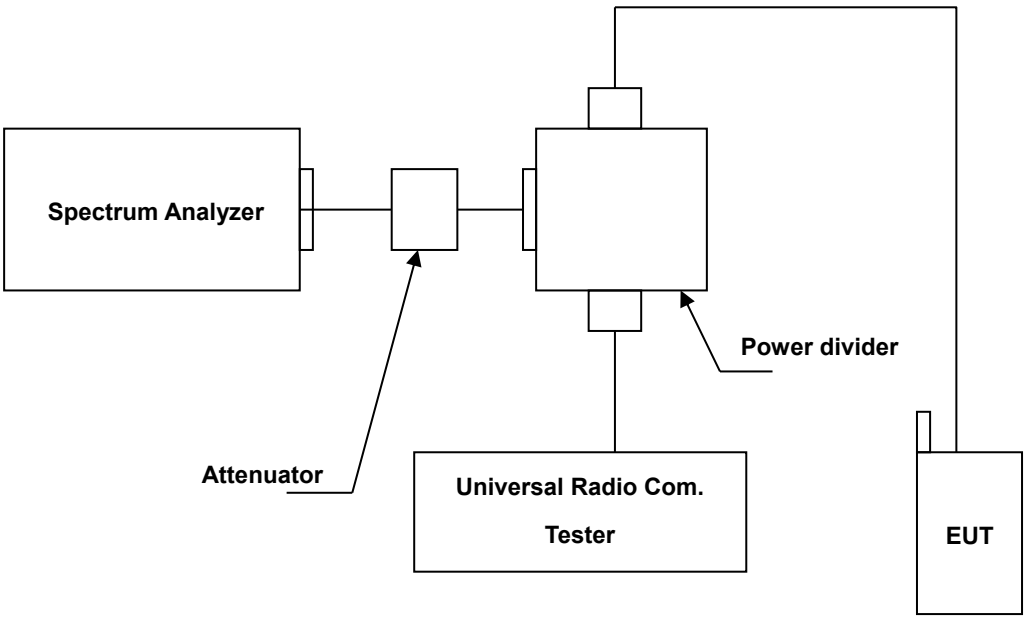
c. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.5. Peak to Average Power Ratio Test

■ Limit

In measuring transmissions in this band using an average power technique, the peak to-average power ratio (PAPR) of the transmission may not exceed 13 dB.

■ Setup



■ Test Procedure

a. Set resolution/measurement bandwidth signal's occupied bandwidth;

b. Set the number of counts to a value that stabilizes the measured CCDF curve;

c. Record the maximum PAPR level associated with a probability of 0.1 %.

3.6. Band Edge Test

■ Limit

The Band Edge Limit:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

(For B13)

§27.53(c)(4): On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(For B7,38,41)

§27.53(m): For mobile digital stations, the attenuation factor shall be not less than 43+10 log(P) dB at the channel edge and 55+10 log(P) dB at 5.5 megahertz from the channel edges.

(For P90R、B14)

§90.543 (e)(2): On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(For P90R、B14)

§90.543 (e)(3): On all frequencies between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

(For P90S、B26)

§90.691 :The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 50 + 10 log10 (P[Watts]) at Band Edge and for all out-of-band emissions within 37.5 kHz of Block Edge.

(For B13)

LTE Band 13_BW=5 MHz				
Frequency (MHz)	RBW=10 kHz Measurement (dBm)	RBW=6.25 kHz Measurement (dBm)	Limit -35 dBm/6.25 kHz	Result
763 ~ 775	-39.670	-41.711	-35	PASS
793 ~ 805	-51.865	-53.906	-35	PASS

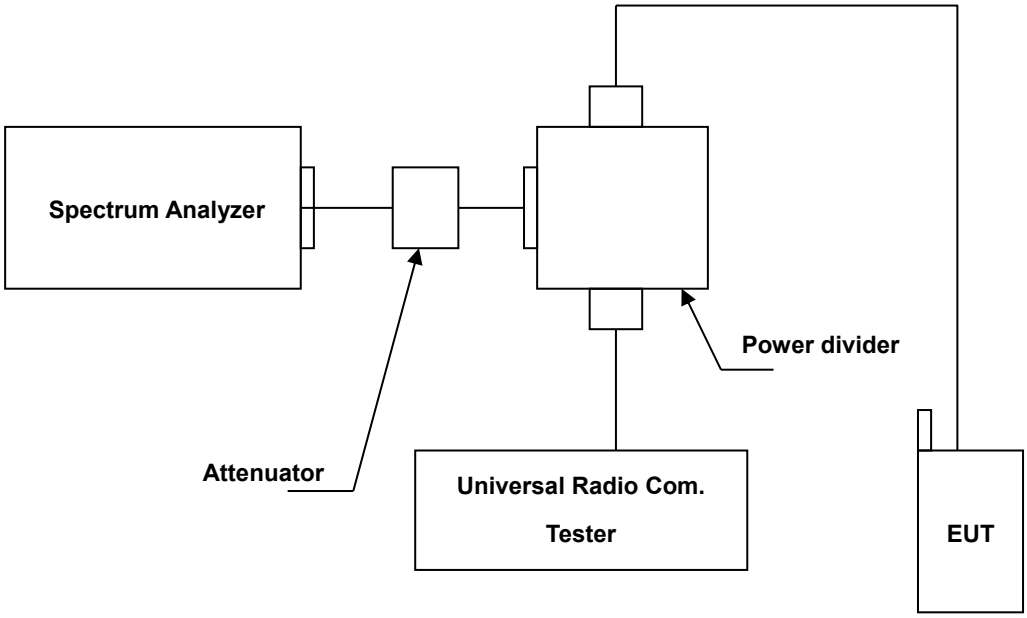
LTE Band 13_BW=10 MHz				
Frequency (MHz)	RBW=10 kHz Measurement (dBm)	RBW=6.25 kHz Measurement (dBm)	Limit -35 dBm/6.25 kHz	Result
763 ~775	-42.106	-44.147	-35	PASS
793 ~805	-41.867	-43.908	-35	PASS

(For B14)

LTE Band 14_BW=5 MHz				
Frequency (MHz)	RBW=10 kHz Measurement (dBm)	RBW=6.25 kHz Measurement (dBm)	Limit -35 dBm/6.25 kHz	Result
769 ~ 775	-39.670	-41.711	-35	PASS
799 ~ 805	-51.865	-53.906	-35	PASS

LTE Band 14_BW=10 MHz				
Frequency (MHz)	RBW=10 kHz Measurement (dBm)	RBW=6.25 kHz Measurement (dBm)	Limit -35 dBm/6.25 kHz	Result
769 ~ 775	-42.106	-44.147	-35	PASS
799 ~ 805	-41.867	-43.908	-35	PASS

■ Setup



■ Test Procedure

a. The EUT was set up for the maximum peak power with WWAN link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.)

b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. This splitter loss and cable loss are the worst loss in the transmitted path track.

c. The center frequency of spectrum is the band edge frequency and span is 10 MHz. RB of the resolution bandwidth of at least one percent of the emission bandwidth.

d. Record the max trace plot into the test report.

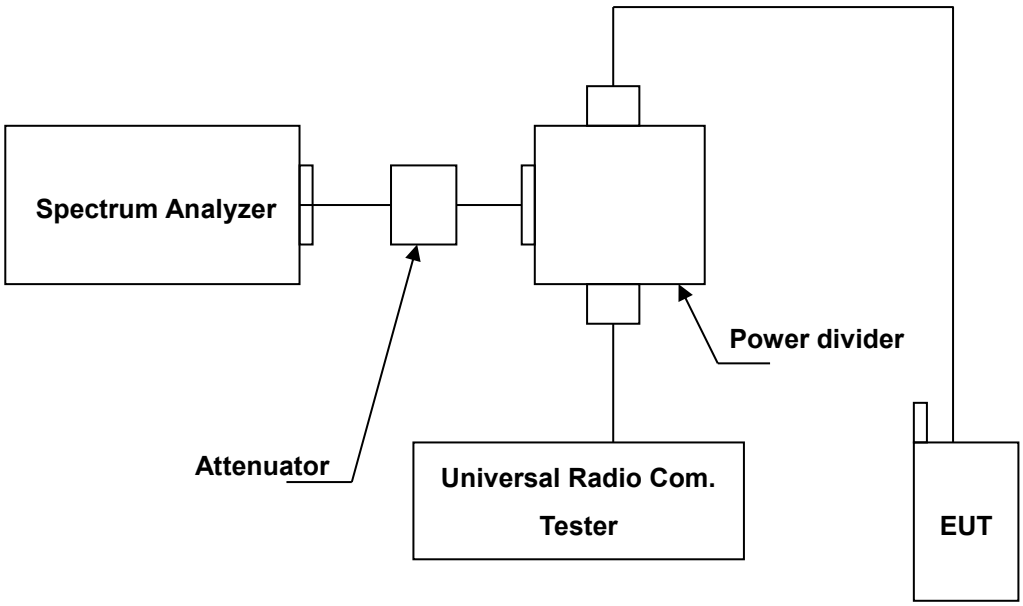
3.7. Conducted Spurious Emission Test

■ Limit

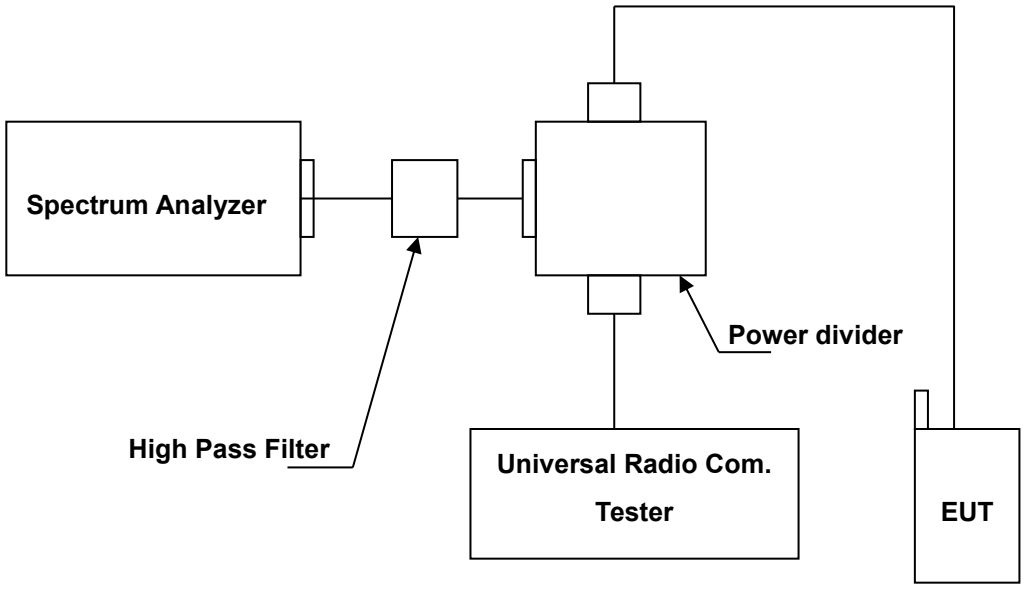
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 $\log_{10}$(P) dB. The limit of emission equal to -13 dBm.

■ Setup

Below 2.8 GHz



Above 2.8 GHz



■ Test Procedure

a. The EUT was set up for the maximum peak power with WWAN link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range.).

b. The conducted spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

c. When the spectrum scanned from 10 MHz to 2.5 GHz (Band 7and Band 41: scanned from 10 MHz to 4 GHz), it shall be connected to the band reject filter attenuated the carried frequency. The spectrum set RB=1 MHz, VB=3 MHz.

d. When the spectrum scanned from 2.5 GHz to 10th harmonic (Band 7 and Band 41: scanned from 4 GHz to 10th harmonic). The spectrum set RB=1 MHz, VB=3 MHz.

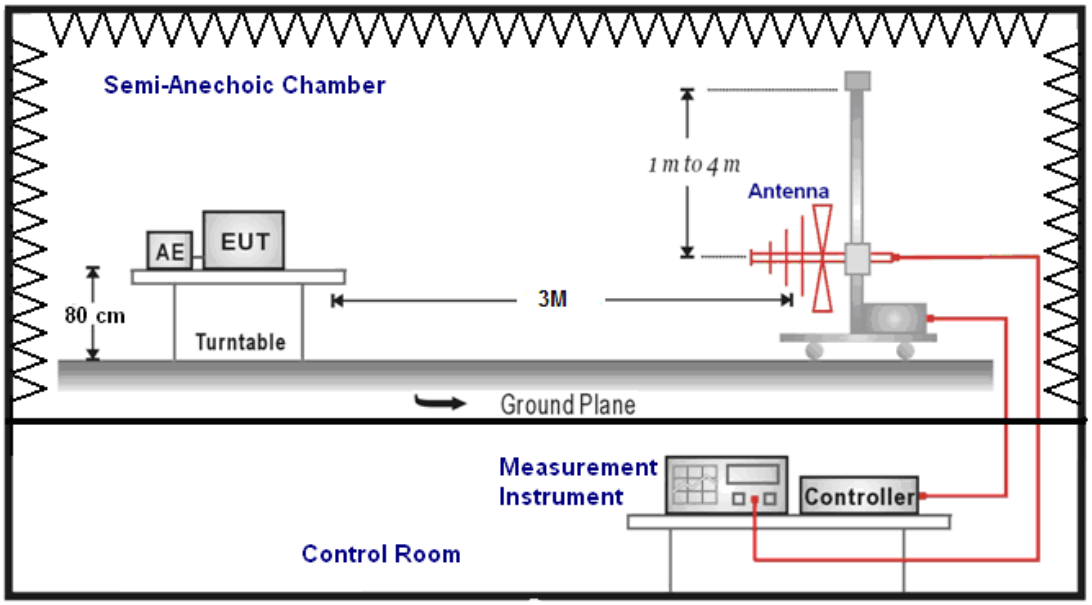
3.8. Radiated Emission Test

■ Limit

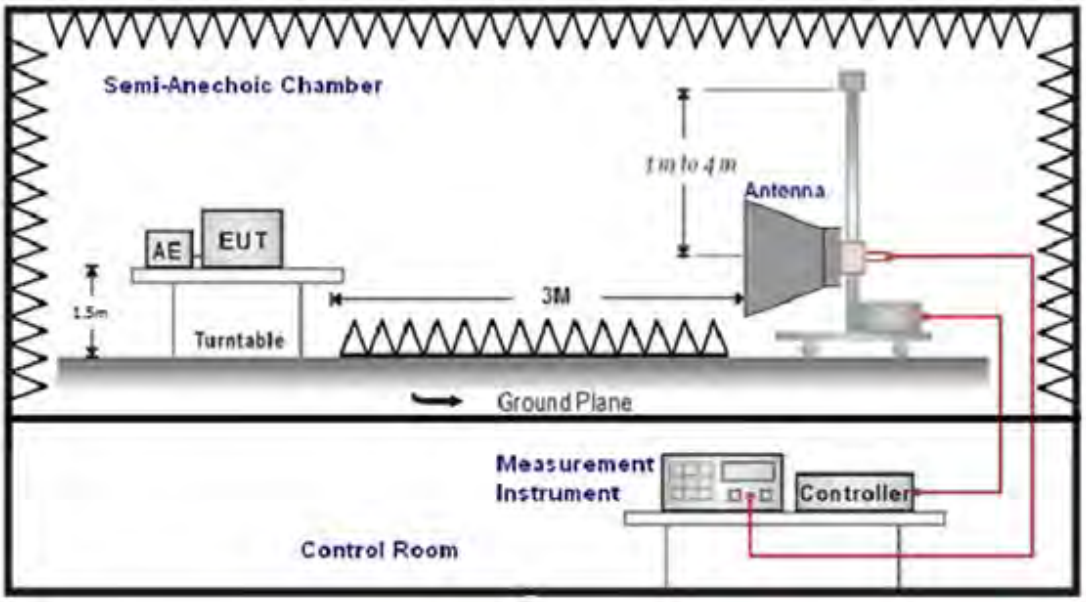
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 $\log_{10}$(P) dB. The limit of emission equal to -13 dBm.

■ Setup

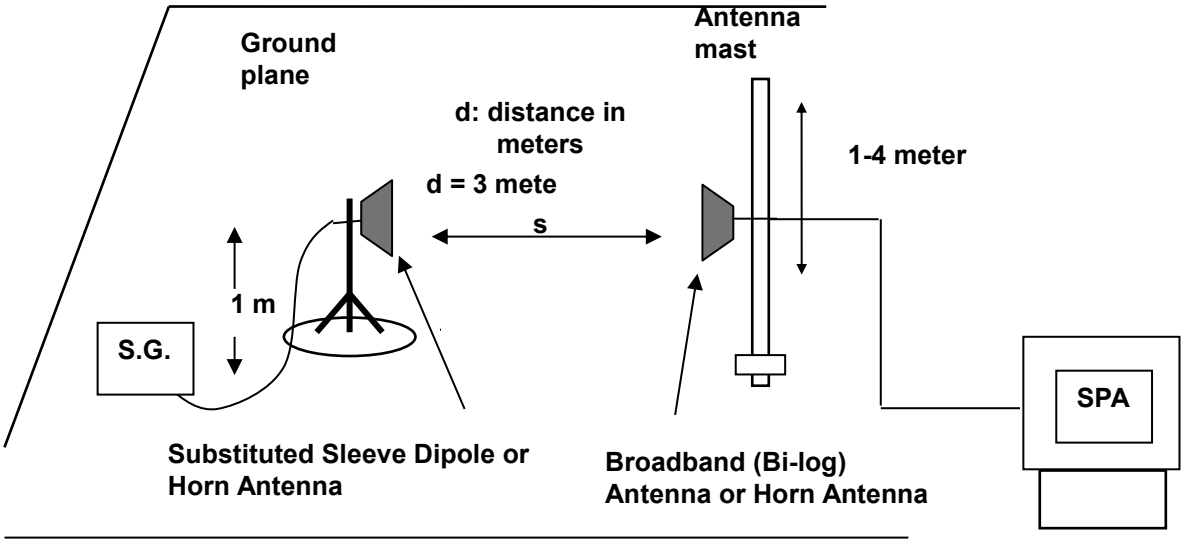
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



■ Test Procedure

a. The EUT was set up for the maximum power with WWAN link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range).

b. Radiation Emission measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (1.5 m for above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

c. The substitution antenna (Note:1 & 2) is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G.

d. E.I.R.P. = Output power level of S.G - TX cable loss + Antenna gain of substitution horn

e. E.R.P. = E.I.R.P- 2.15 dB

f. Measurement range 9 kHz - 10 th Harmonic

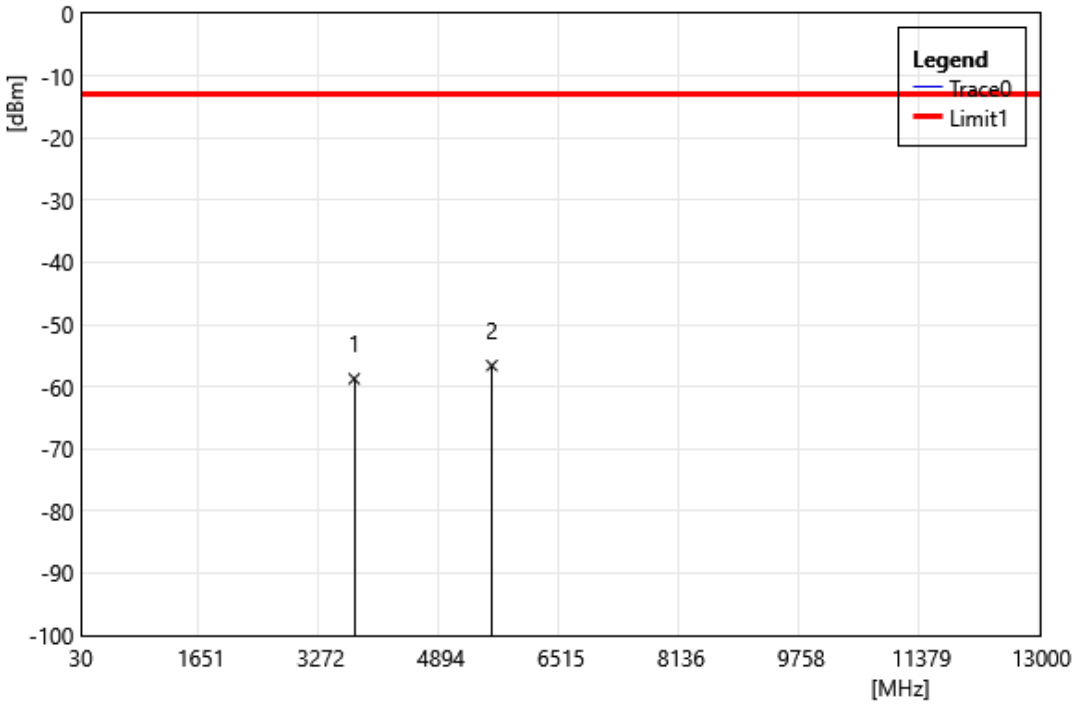
Note: 1. Below 1 GHz Substituted Method Test：Sleeve dipole antenna to Bi-Log Antenna

2. Above 1 GHz Substituted Method Test：Horn antenna to Horn Antenna

4 Test Results

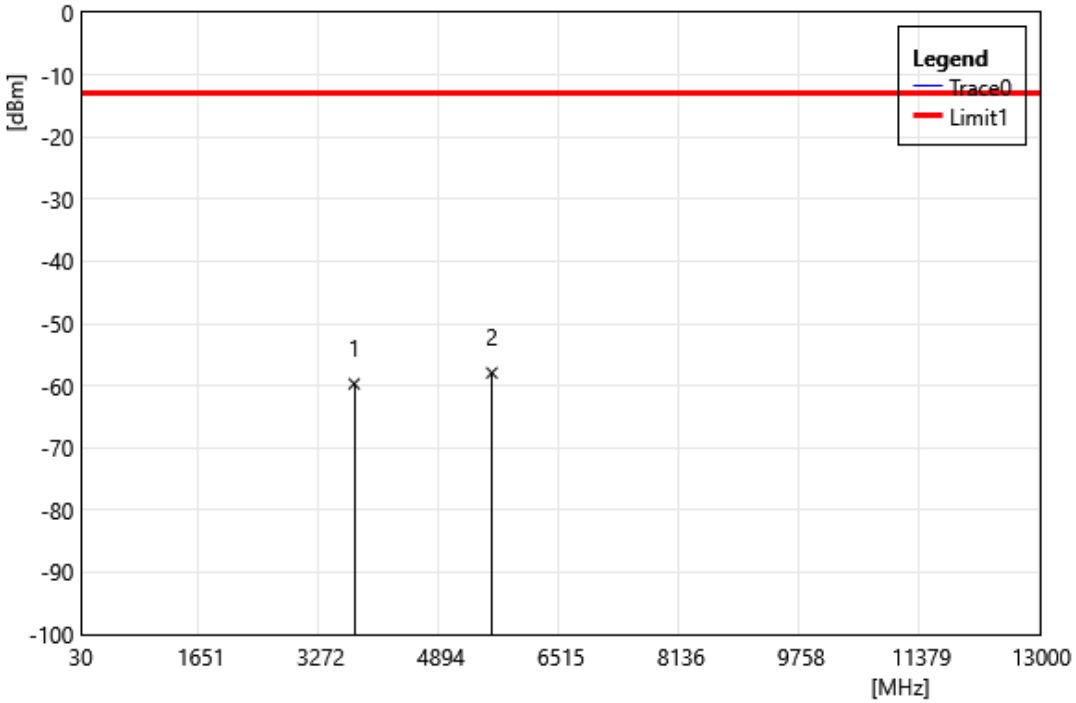
4.1. Radiated Emission

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	2_20MHz_QPSK_CH18700		
Polarization:	Vertical		
Remark:			



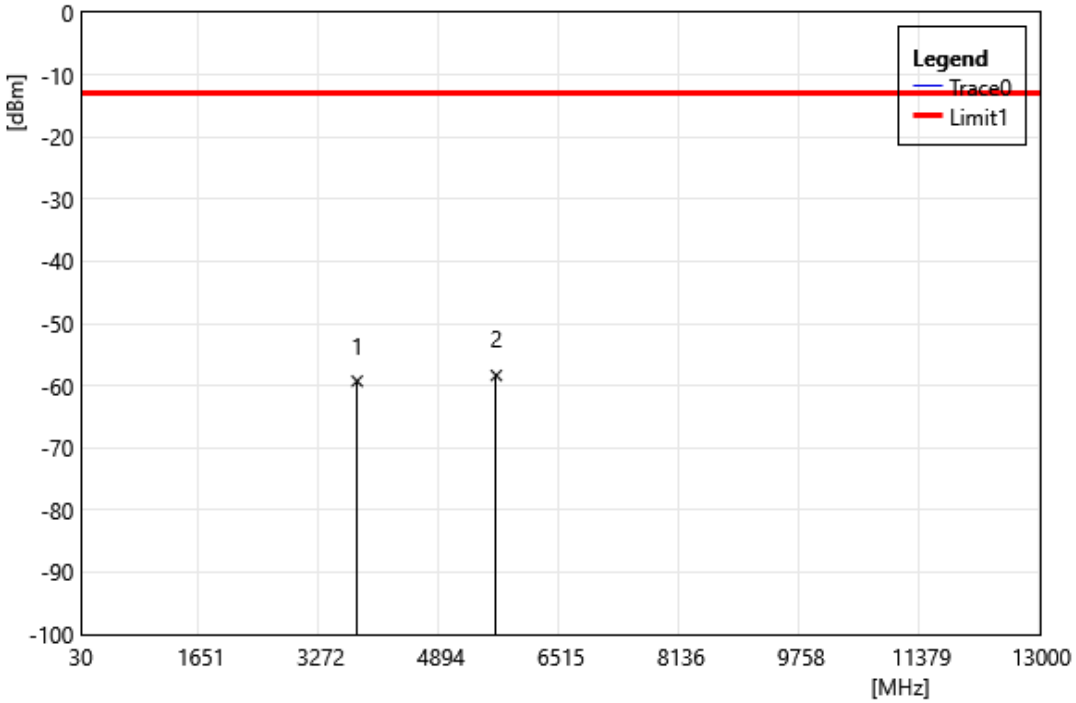
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3720.00	-65.62	6.89	-58.73	-13.00	-45.73	PEAK
2	5580.00	-68.10	11.49	-56.61	-13.00	-43.61	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	2_20MHz_QPSK_CH18700		
Polarization:	Horizontal		
Remark:			



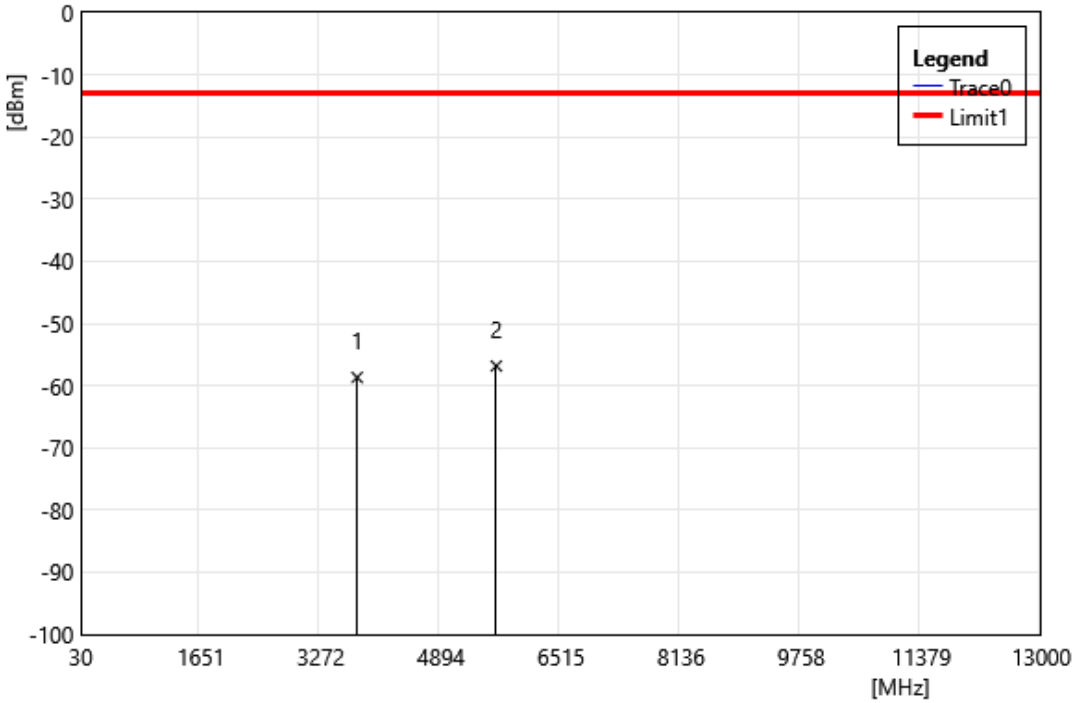
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3720.00	-66.60	6.89	-59.71	-13.00	-46.71	PEAK
2	5580.00	-69.43	11.49	-57.94	-13.00	-44.94	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	2_20MHz_QPSK_CH18900		
Polarization:	Vertical		
Remark:			



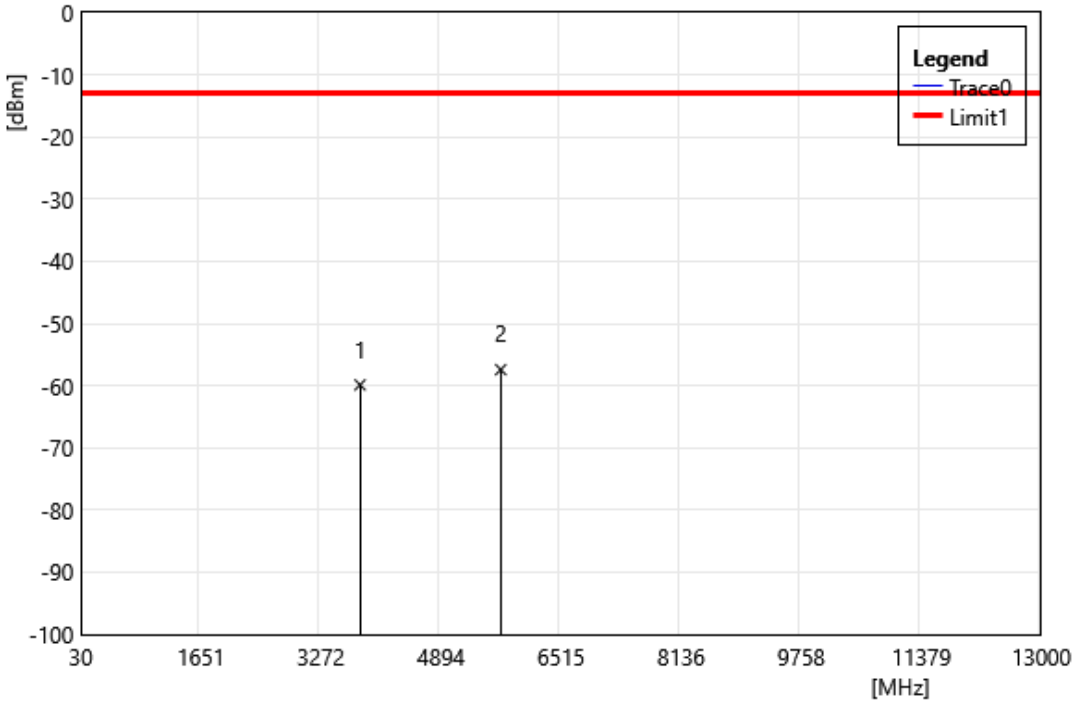
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3760.00	-66.27	7.01	-59.26	-13.00	-46.26	PEAK
2	5640.00	-69.97	11.62	-58.35	-13.00	-45.35	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	2_20MHz_QPSK_CH18900		
Polarization:	Horizontal		
Remark:			



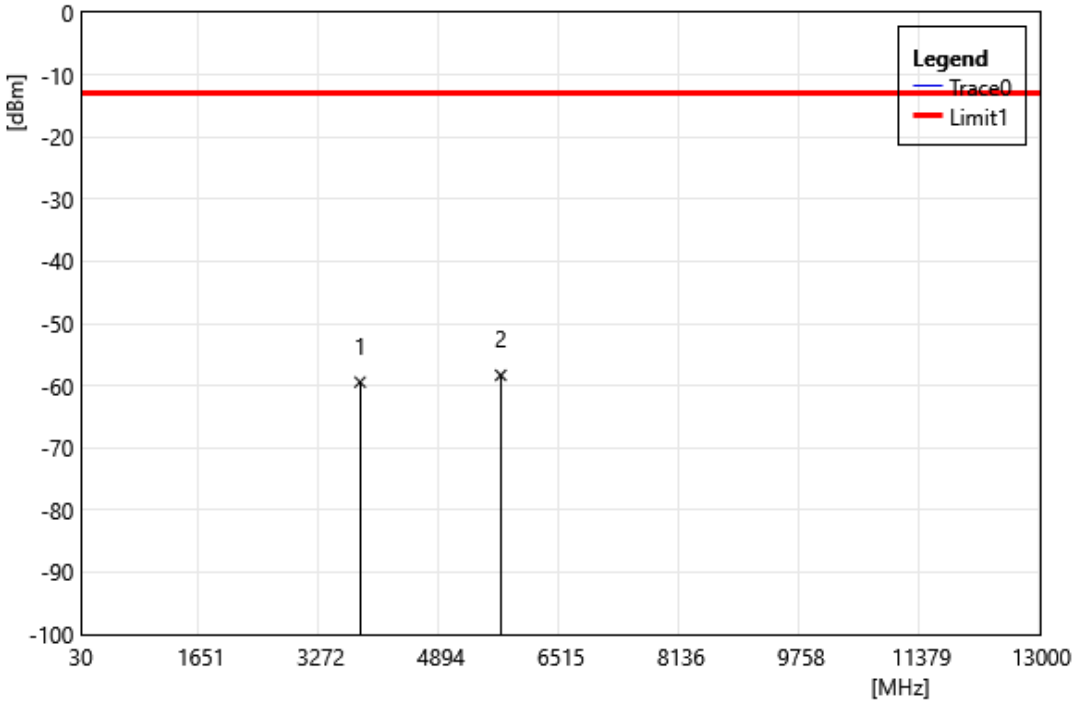
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3760.00	-65.67	7.01	-58.66	-13.00	-45.66	PEAK
2	5640.00	-68.44	11.62	-56.82	-13.00	-43.82	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	2_20MHz_QPSK_CH19100		
Polarization:	Vertical		
Remark:			



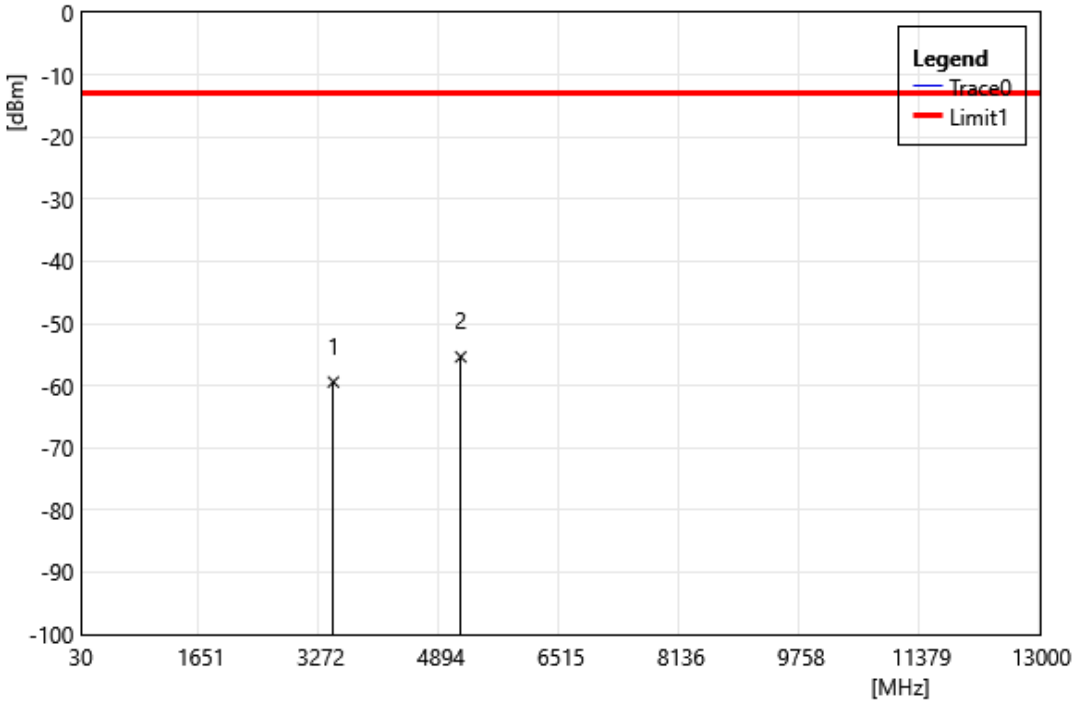
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3800.00	-67.00	7.12	-59.88	-13.00	-46.88	PEAK
2	5700.00	-69.16	11.74	-57.42	-13.00	-44.42	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	2_20MHz_QPSK_CH19100		
Polarization:	Horizontal		
Remark:			



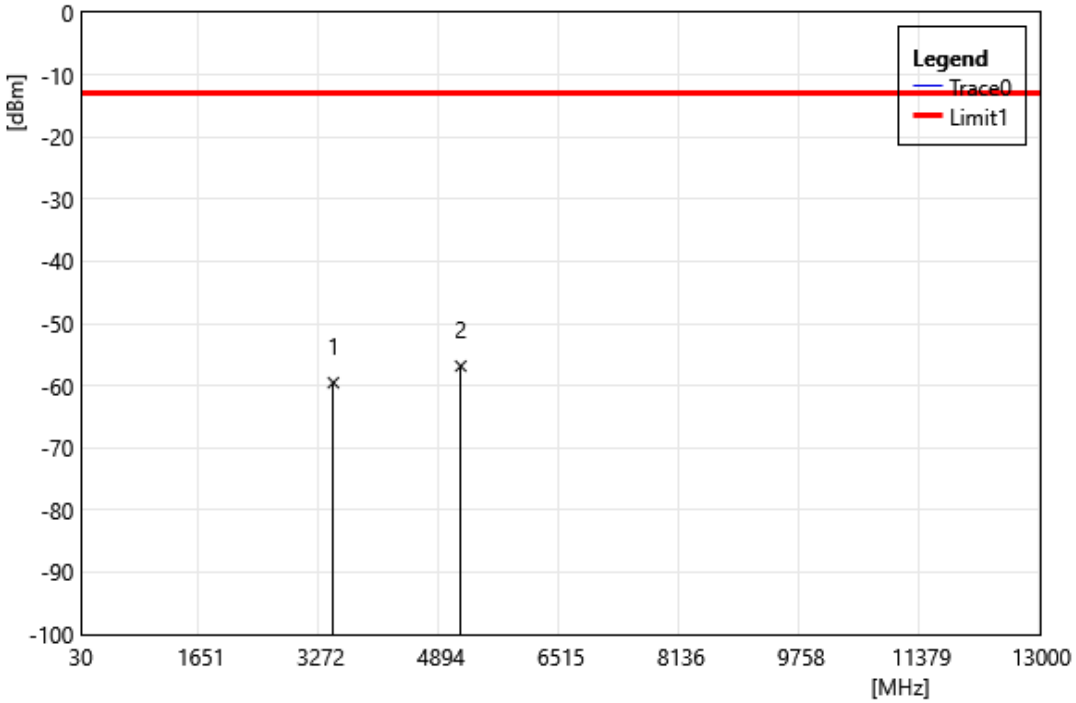
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3800.00	-66.55	7.12	-59.43	-13.00	-46.43	PEAK
2	5700.00	-70.06	11.74	-58.32	-13.00	-45.32	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	4_20MHz_QPSK_CH20050		
Polarization:	Vertical		
Remark:			



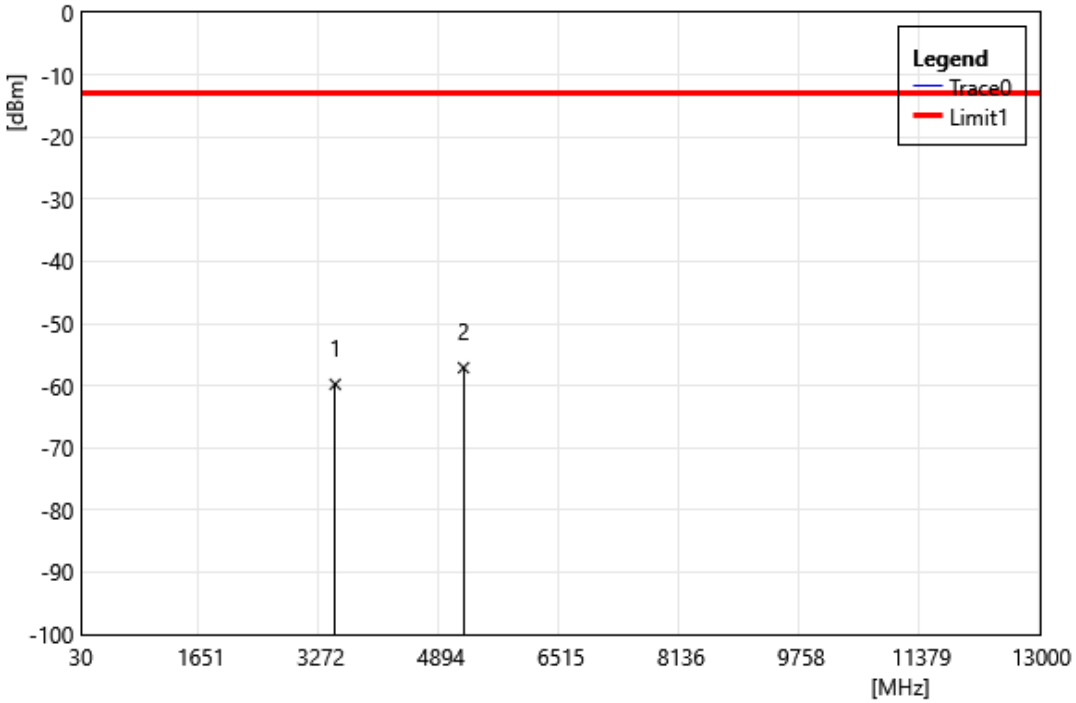
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3440.00	-65.60	6.19	-59.41	-13.00	-46.41	PEAK
2	5160.00	-66.03	10.66	-55.37	-13.00	-42.37	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	4_20MHz_QPSK_CH20050		
Polarization:	Horizontal		
Remark:			



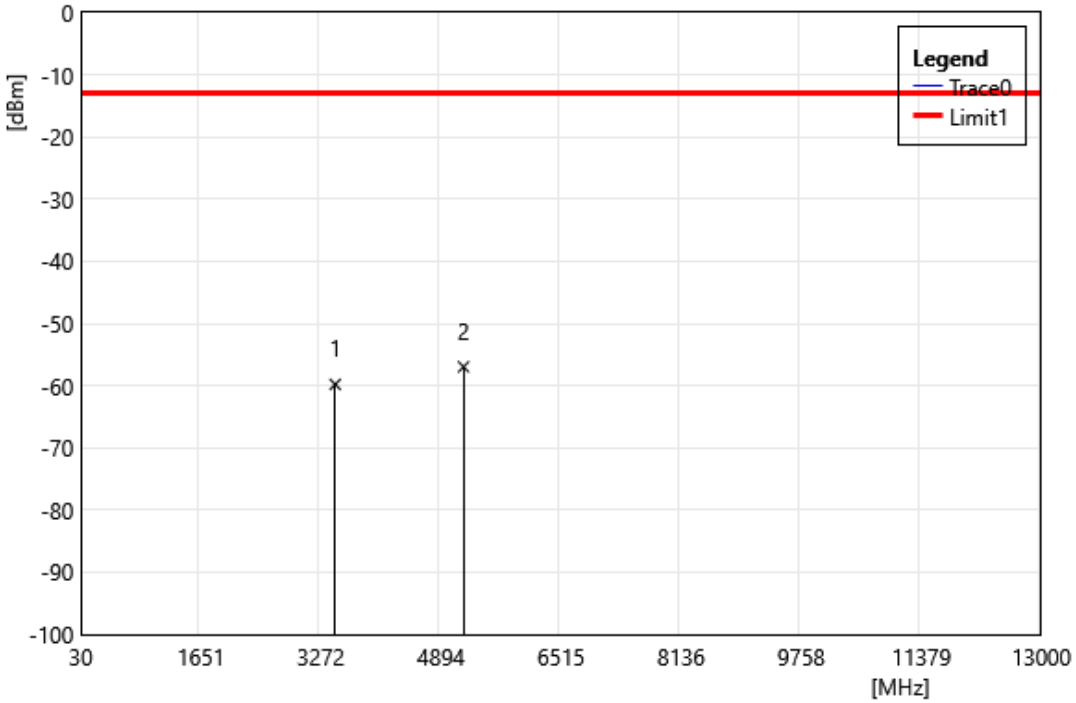
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3440.00	-65.72	6.19	-59.53	-13.00	-46.53	PEAK
2	5160.00	-67.51	10.66	-56.85	-13.00	-43.85	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	4_20MHz_QPSK_CH20175		
Polarization:	Vertical		
Remark:			



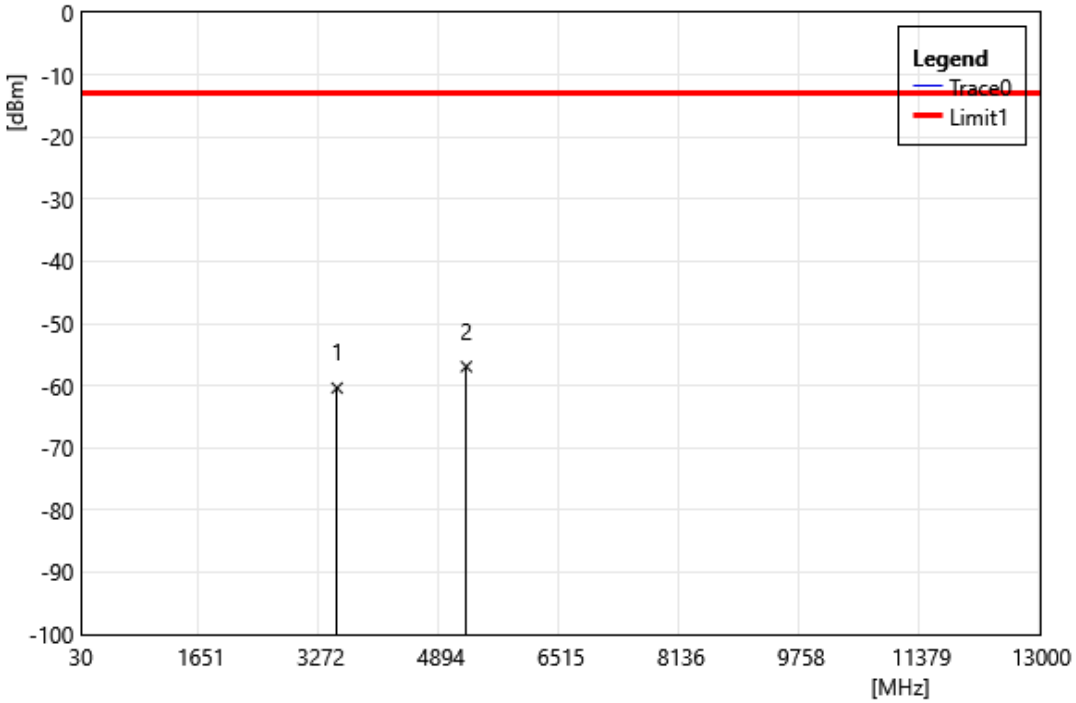
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3465.00	-65.99	6.21	-59.78	-13.00	-46.78	PEAK
2	5197.50	-67.83	10.73	-57.10	-13.00	-44.10	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	4_20MHz_QPSK_CH20175		
Polarization:	Horizontal		
Remark:			



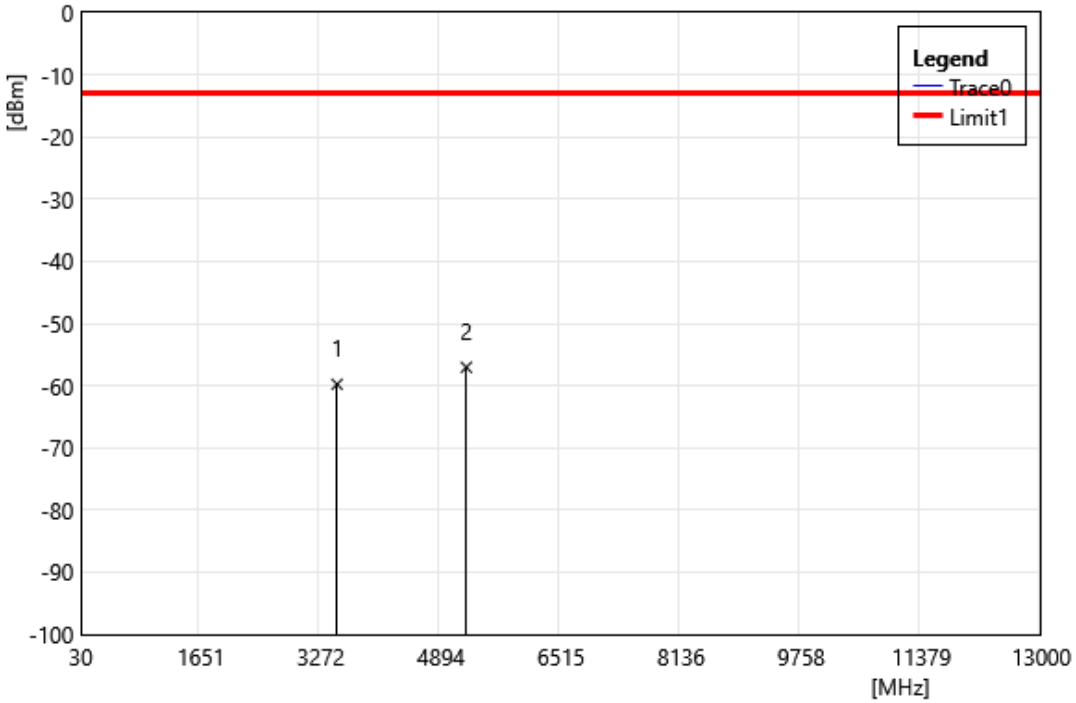
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3465.00	-66.00	6.21	-59.79	-13.00	-46.79	PEAK
2	5197.50	-67.68	10.73	-56.95	-13.00	-43.95	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	4_20MHz_QPSK_CH20300		
Polarization:	Vertical		
Remark:			



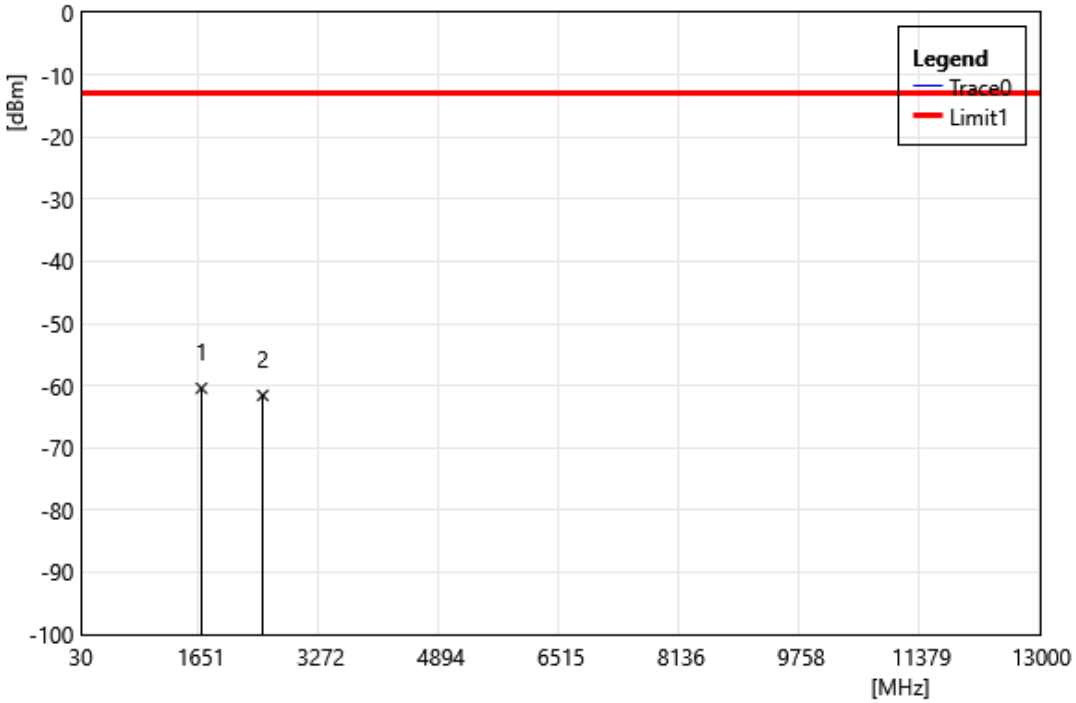
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3490.00	-66.61	6.24	-60.37	-13.00	-47.37	PEAK
2	5235.00	-67.75	10.81	-56.94	-13.00	-43.94	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	4_20MHz_QPSK_CH20300		
Polarization:	Horizontal		
Remark:			



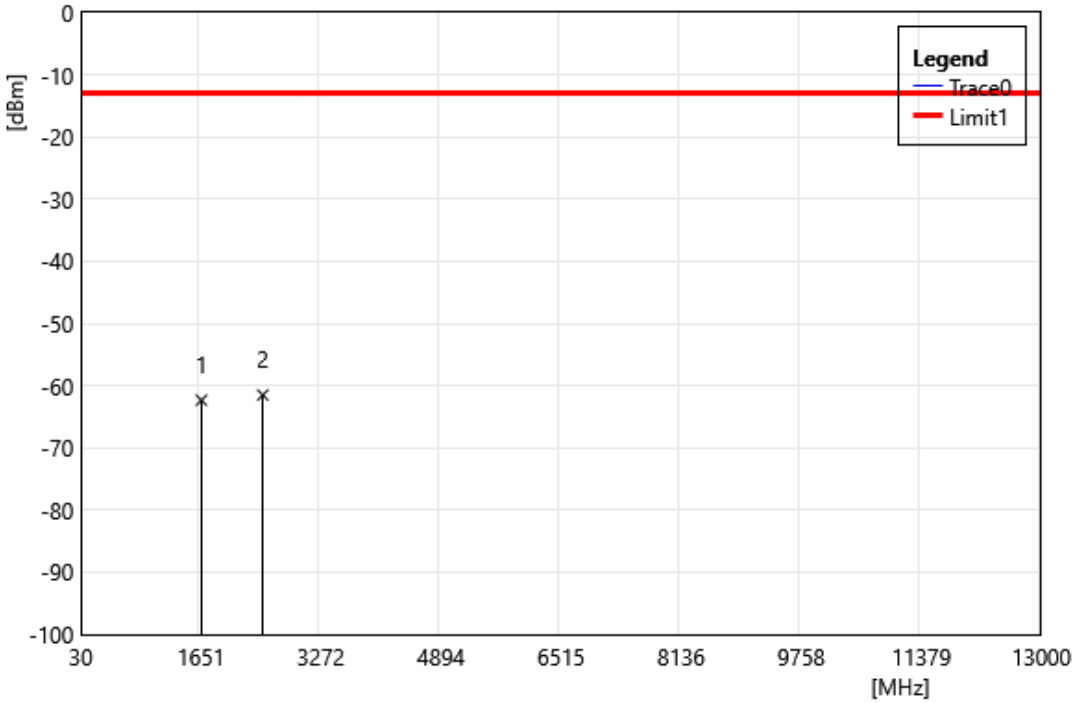
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3490.00	-66.00	6.24	-59.76	-13.00	-46.76	PEAK
2	5235.00	-67.83	10.81	-57.02	-13.00	-44.02	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	5_10MHz_QPSK_CH20450		
Polarization:	Vertical		
Remark:			



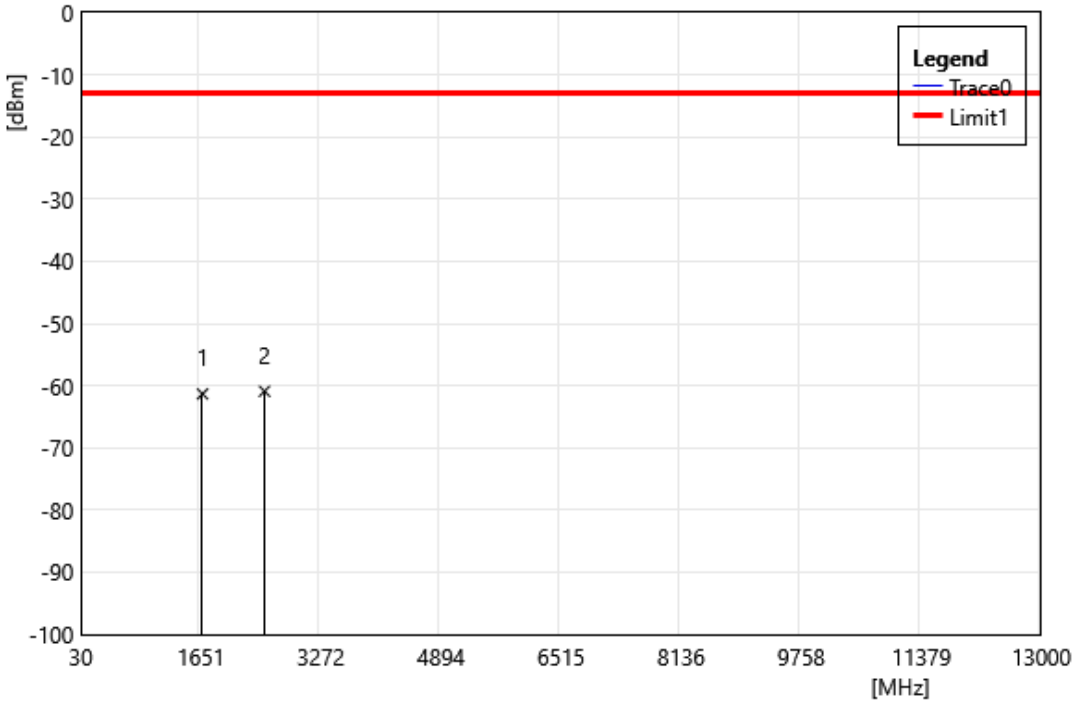
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1658.00	-62.00	1.58	-60.42	-13.00	-47.42	PEAK
2	2487.00	-65.45	3.89	-61.56	-13.00	-48.56	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	5_10MHz_QPSK_CH20450		
Polarization:	Horizontal		
Remark:			



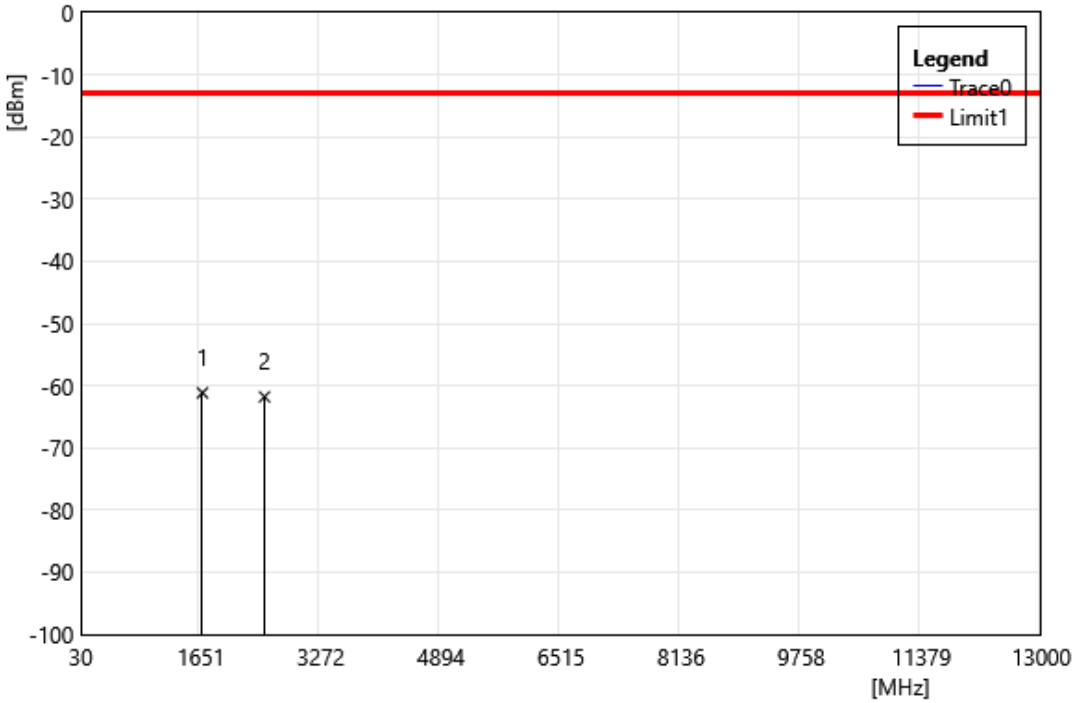
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1658.00	-63.92	1.58	-62.34	-13.00	-49.34	PEAK
2	2487.00	-65.38	3.89	-61.49	-13.00	-48.49	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	5_10MHz_QPSK_CH20525		
Polarization:	Vertical		
Remark:			



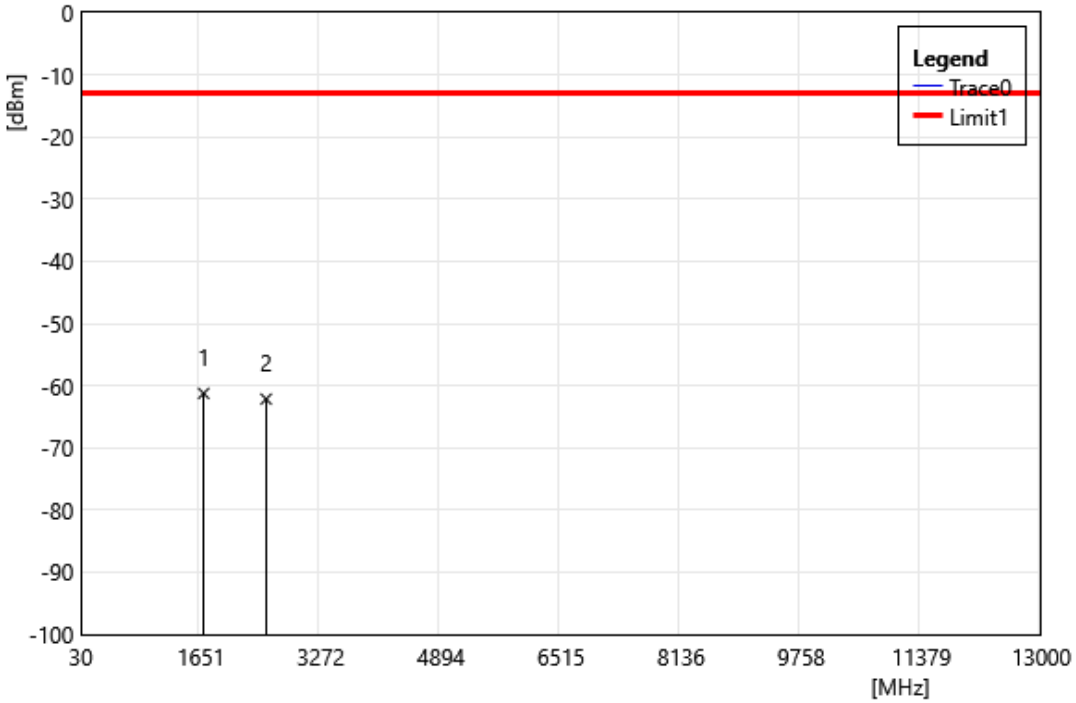
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1673.00	-62.94	1.62	-61.32	-13.00	-48.32	PEAK
2	2509.50	-64.87	3.97	-60.90	-13.00	-47.90	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	5_10MHz_QPSK_CH20525		
Polarization:	Horizontal		
Remark:			



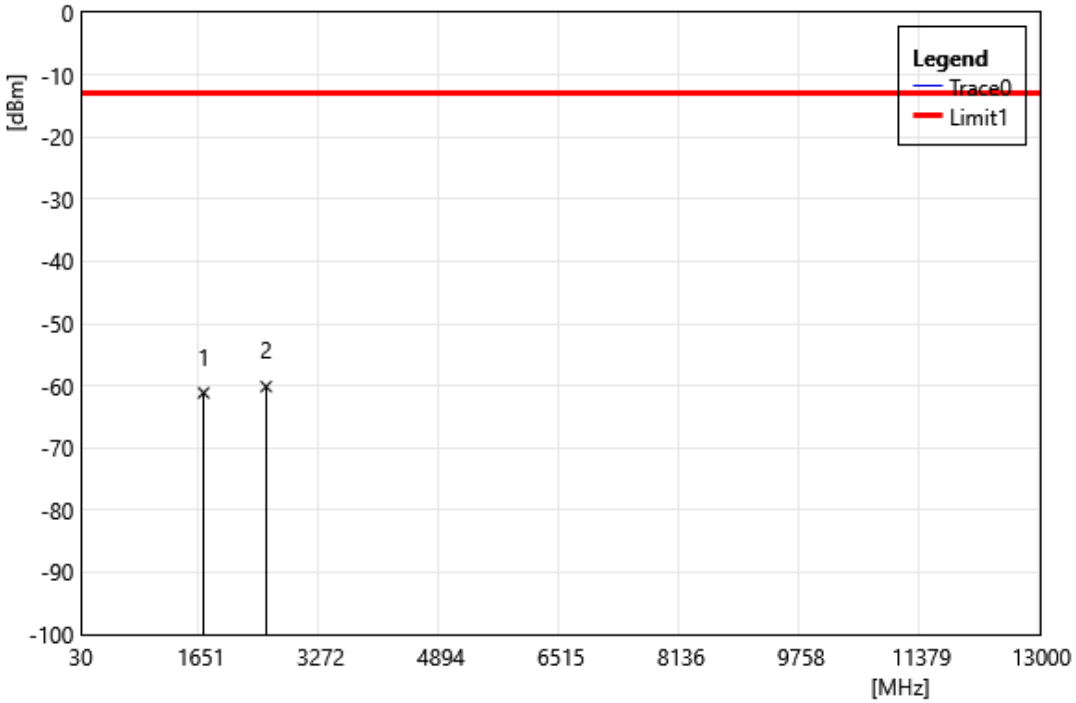
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1673.00	-62.77	1.62	-61.15	-13.00	-48.15	PEAK
2	2509.50	-65.76	3.97	-61.79	-13.00	-48.79	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	5_10MHz_QPSK_CH20600		
Polarization:	Vertical		
Remark:			



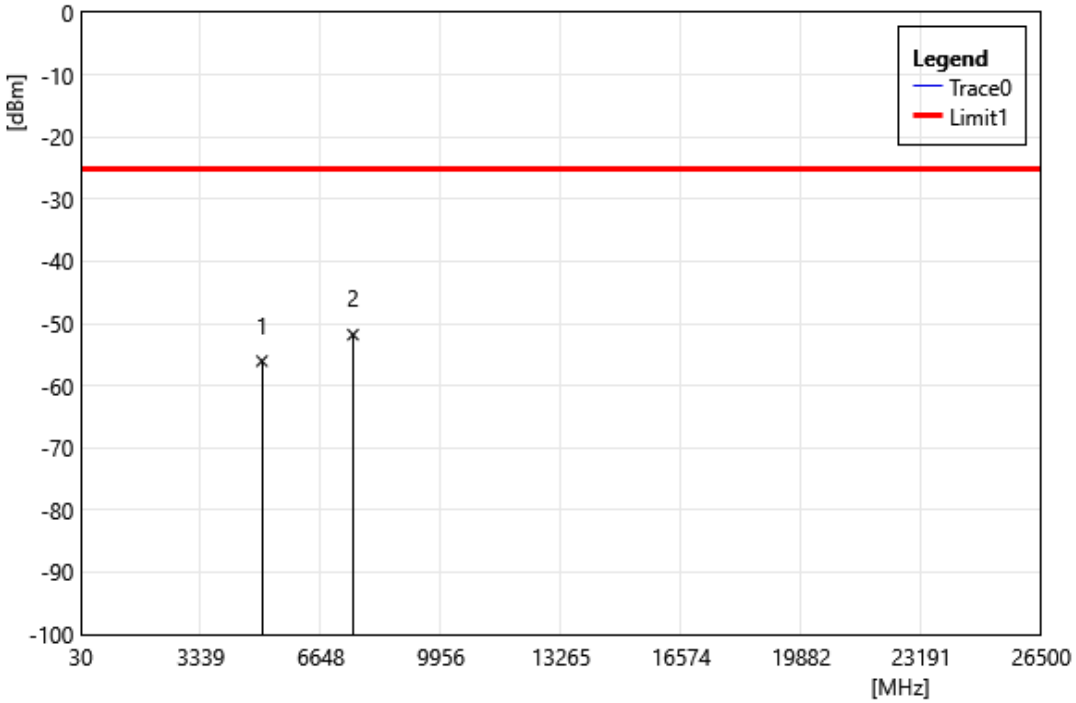
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1688.00	-62.90	1.66	-61.24	-13.00	-48.24	PEAK
2	2532.00	-66.19	4.05	-62.14	-13.00	-49.14	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	5_10MHz_QPSK_CH20600		
Polarization:	Horizontal		
Remark:			



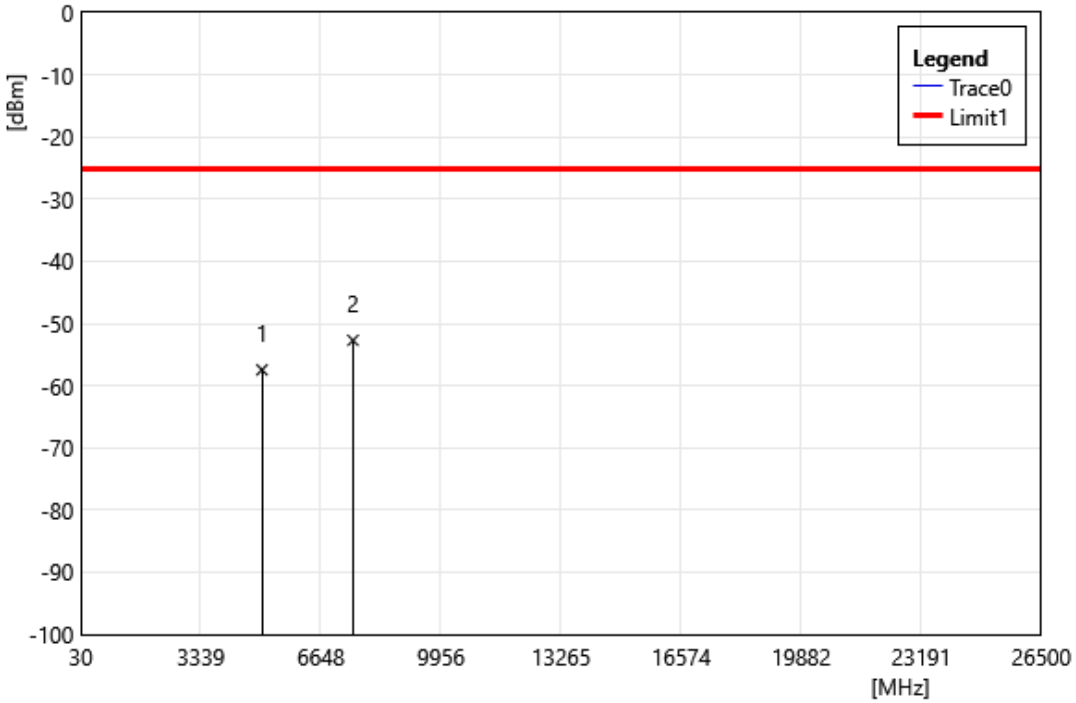
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1688.00	-62.81	1.66	-61.15	-13.00	-48.15	PEAK
2	2532.00	-64.20	4.05	-60.15	-13.00	-47.15	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	7_20MHz_QPSK_CH20850		
Polarization:	Vertical		
Remark:			



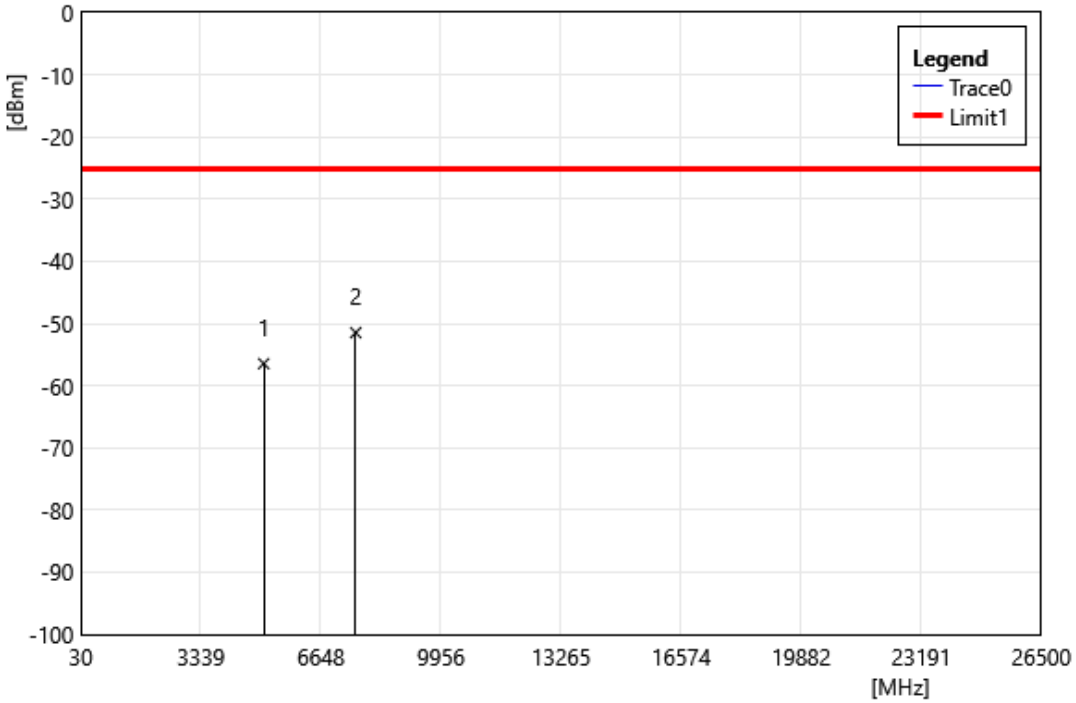
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5020.00	-66.43	10.39	-56.04	-25.00	-31.04	PEAK
2	7530.00	-69.66	17.86	-51.80	-25.00	-26.80	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	7_20MHz_QPSK_CH20850		
Polarization:	Horizontal		
Remark:			



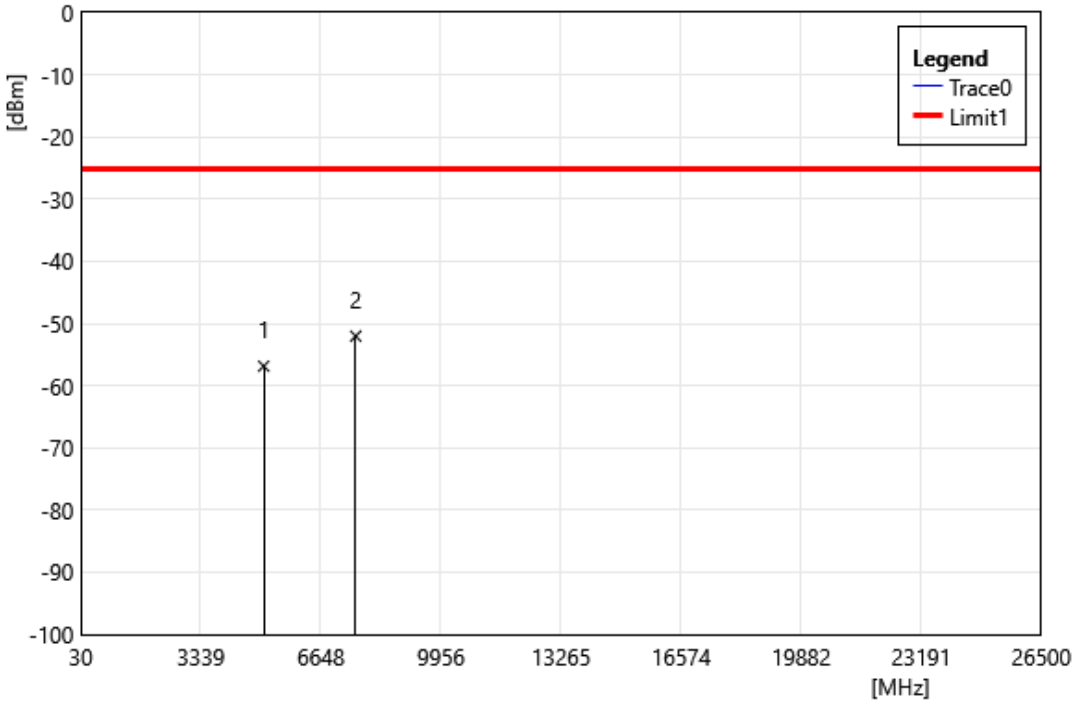
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5020.00	-67.84	10.39	-57.45	-25.00	-32.45	PEAK
2	7530.00	-70.55	17.86	-52.69	-25.00	-27.69	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	7_20MHz_QPSK_CH21100		
Polarization:	Vertical		
Remark:			



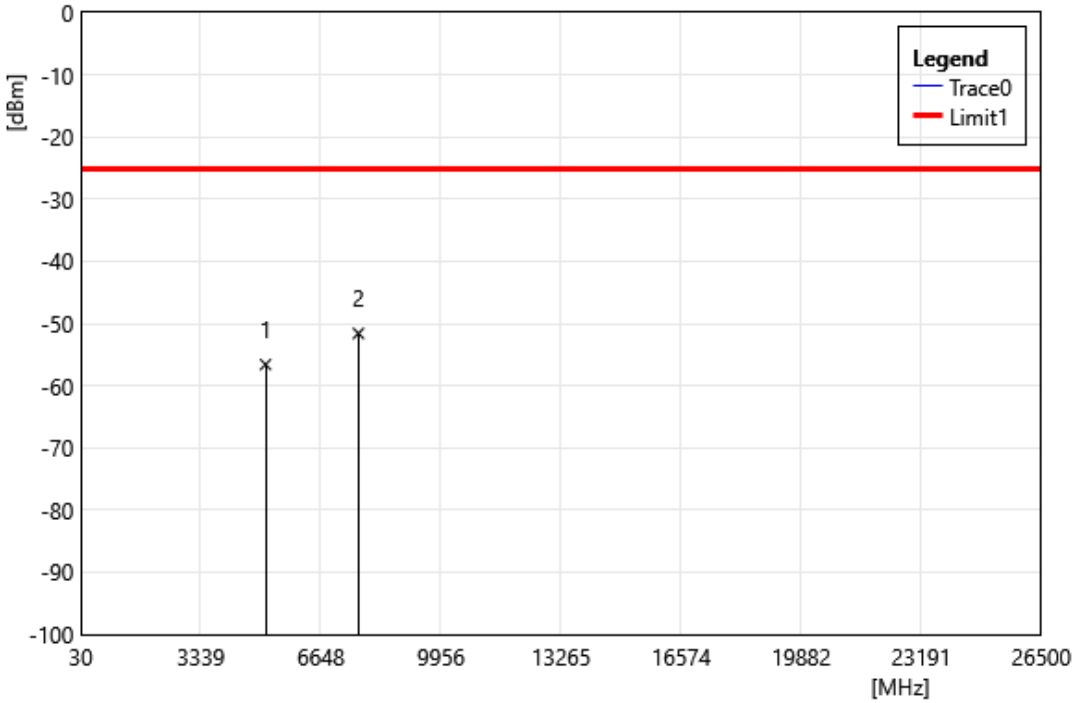
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5070.00	-66.94	10.49	-56.45	-25.00	-31.45	PEAK
2	7605.00	-69.47	17.99	-51.48	-25.00	-26.48	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	7_20MHz_QPSK_CH21100		
Polarization:	Horizontal		
Remark:			



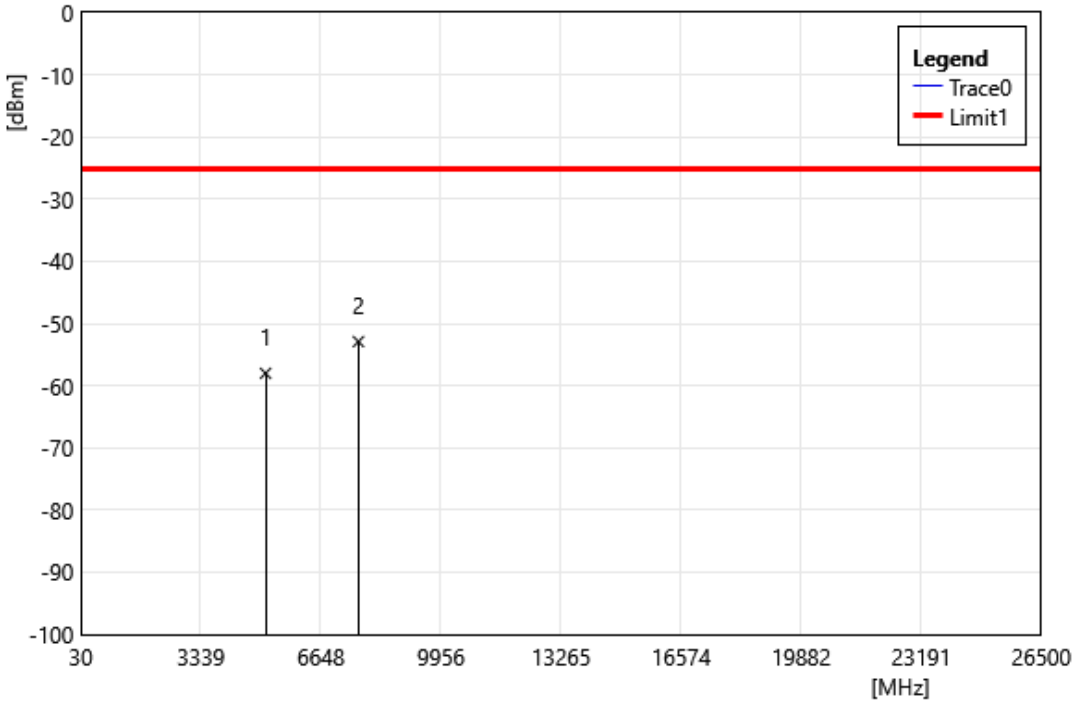
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5070.00	-67.36	10.49	-56.87	-25.00	-31.87	PEAK
2	7605.00	-70.01	17.99	-52.02	-25.00	-27.02	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	7_20MHz_QPSK_CH21350		
Polarization:	Vertical		
Remark:			



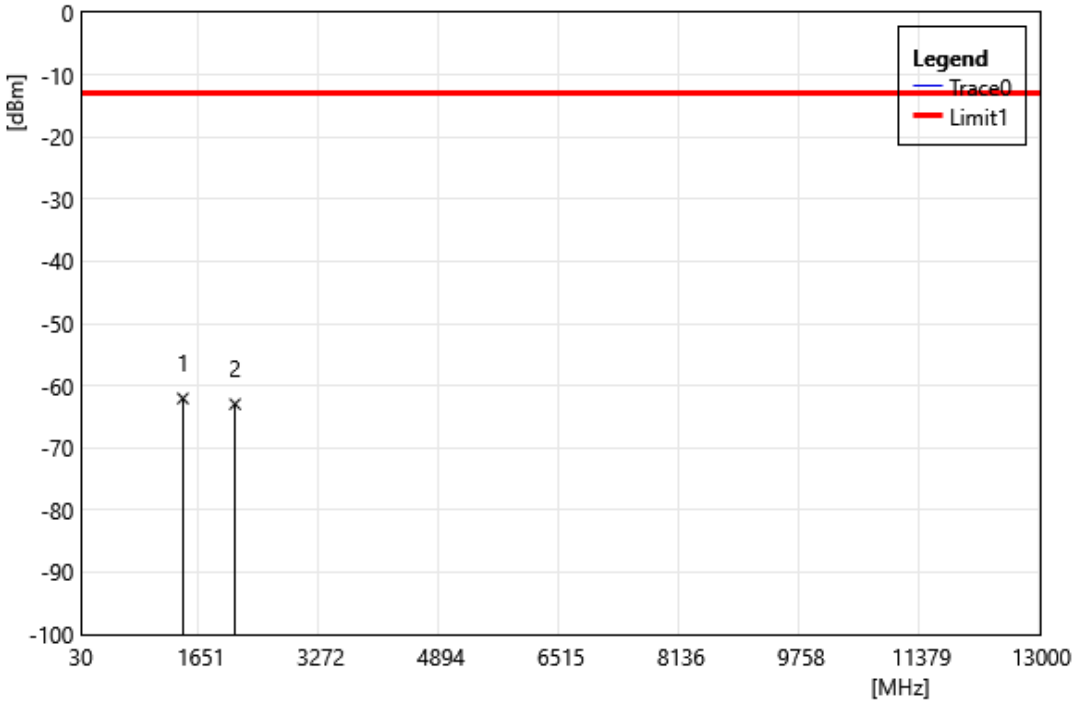
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5120.00	-67.18	10.58	-56.60	-25.00	-31.60	PEAK
2	7680.00	-69.71	18.12	-51.59	-25.00	-26.59	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	7_20MHz_QPSK_CH21350		
Polarization:	Horizontal		
Remark:			



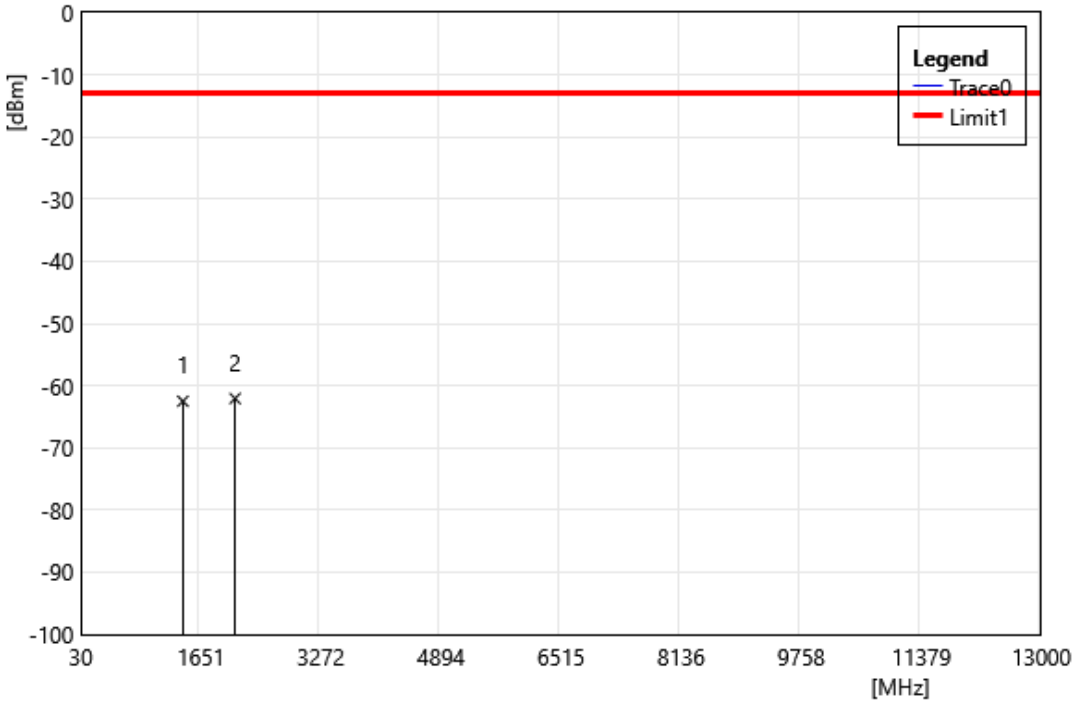
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5120.00	-68.59	10.58	-58.01	-25.00	-33.01	PEAK
2	7680.00	-71.03	18.12	-52.91	-25.00	-27.91	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	12_10MHz_QPSK_CH23060		
Polarization:	Vertical		
Remark:			



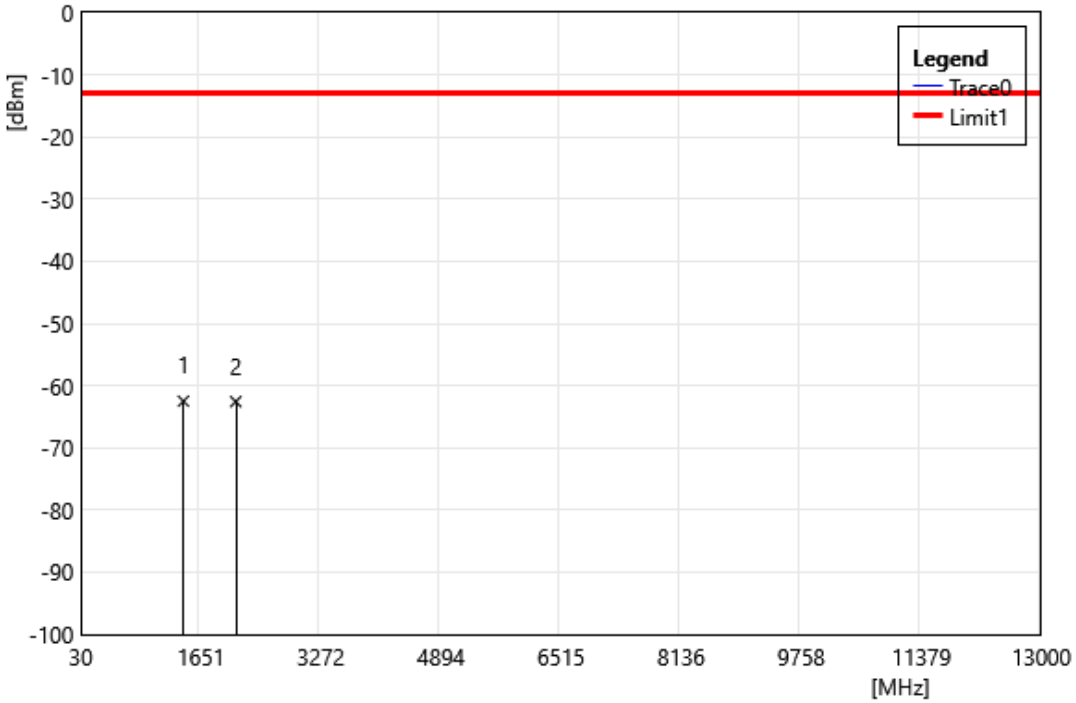
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1408.00	-62.79	0.74	-62.05	-25.00	-37.05	PEAK
2	2112.00	-65.76	2.80	-62.96	-25.00	-37.96	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	12_10MHz_QPSK_CH23060		
Polarization:	Horizontal		
Remark:			



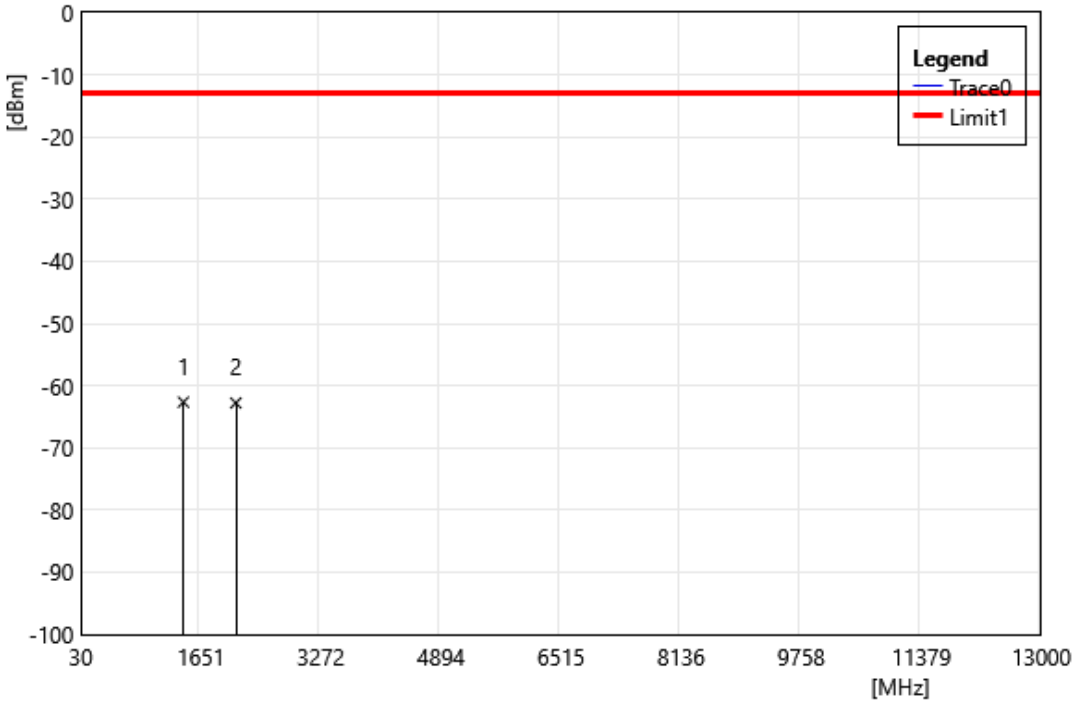
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1408.00	-63.23	0.74	-62.49	-25.00	-37.49	PEAK
2	2112.00	-64.86	2.80	-62.06	-25.00	-37.06	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	12_10MHz_QPSK_CH23095		
Polarization:	Vertical		
Remark:			



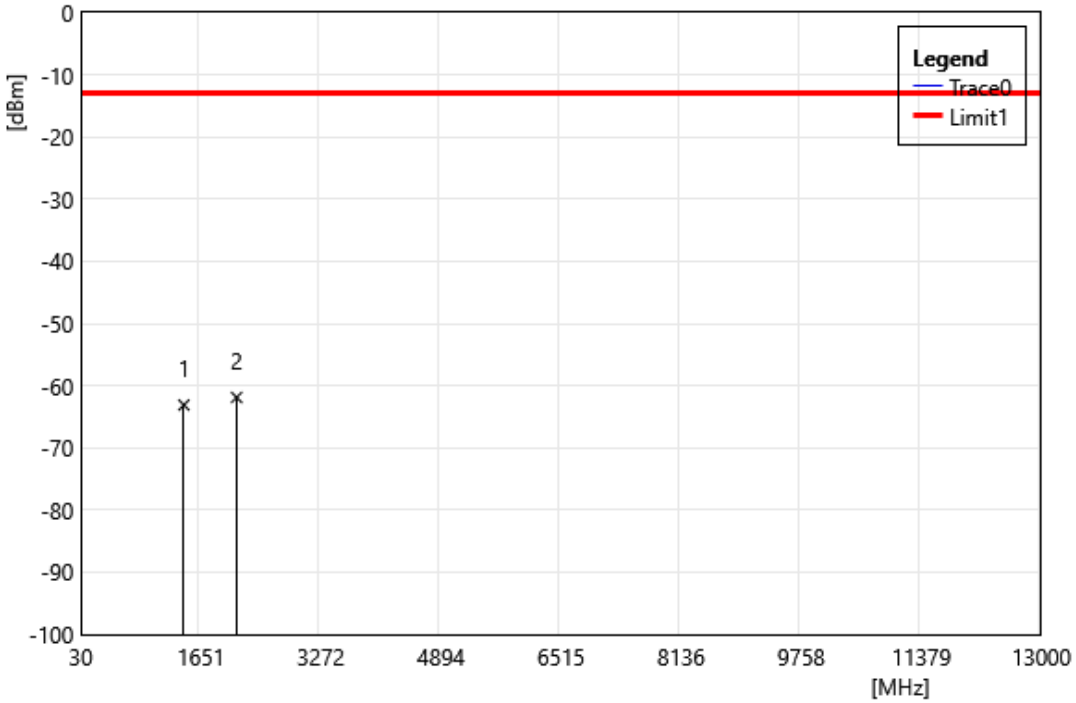
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1415.00	-63.25	0.77	-62.48	-25.00	-37.48	PEAK
2	2122.50	-65.40	2.84	-62.56	-25.00	-37.56	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	12_10MHz_QPSK_CH23095		
Polarization:	Horizontal		
Remark:			



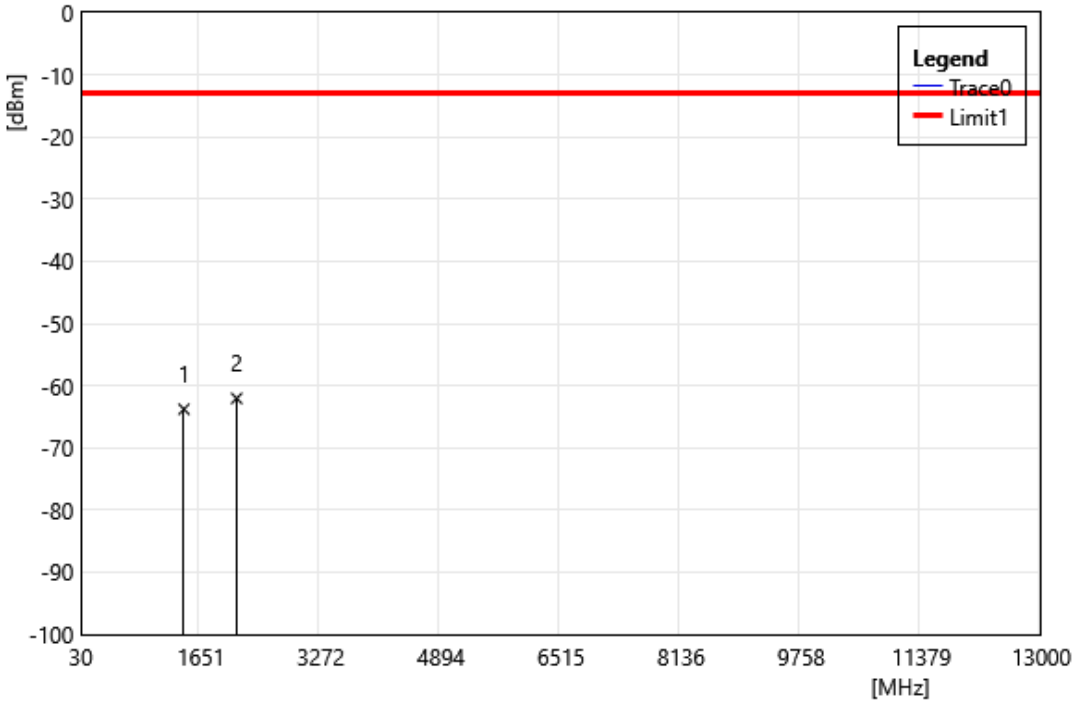
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1415.00	-63.42	0.77	-62.65	-25.00	-37.65	PEAK
2	2122.50	-65.62	2.84	-62.78	-25.00	-37.78	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	12_10MHz_QPSK_CH23130		
Polarization:	Vertical		
Remark:			



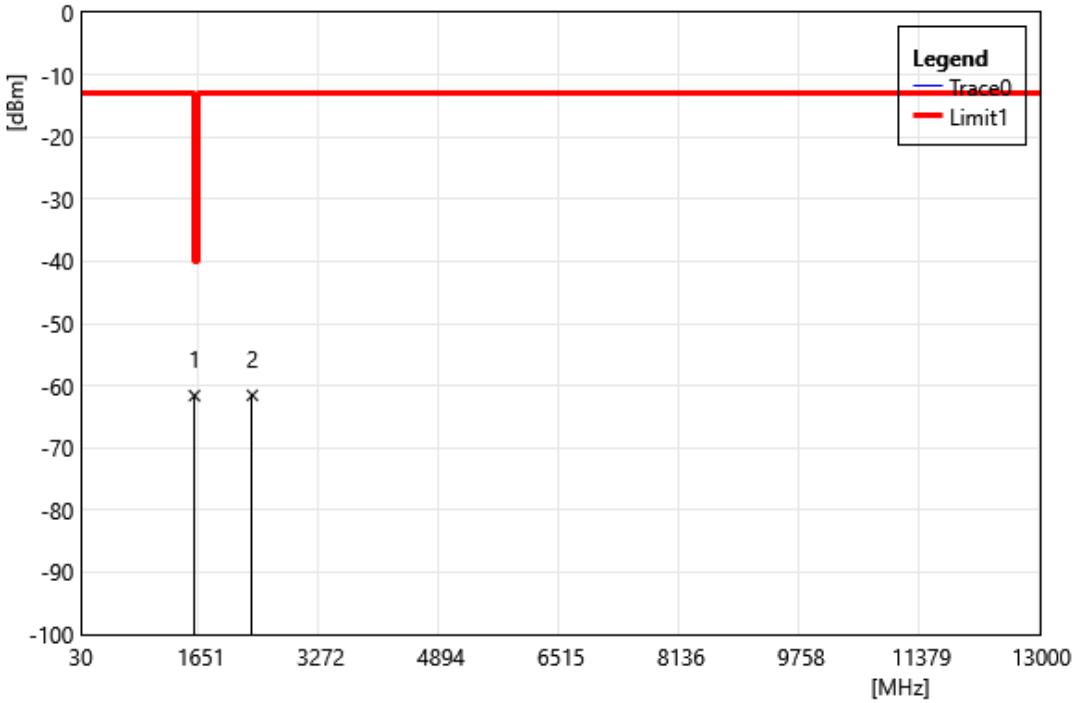
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1422.00	-63.90	0.80	-63.10	-25.00	-38.10	PEAK
2	2133.00	-64.76	2.87	-61.89	-25.00	-36.89	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	12_10MHz_QPSK_CH23130		
Polarization:	Horizontal		
Remark:			



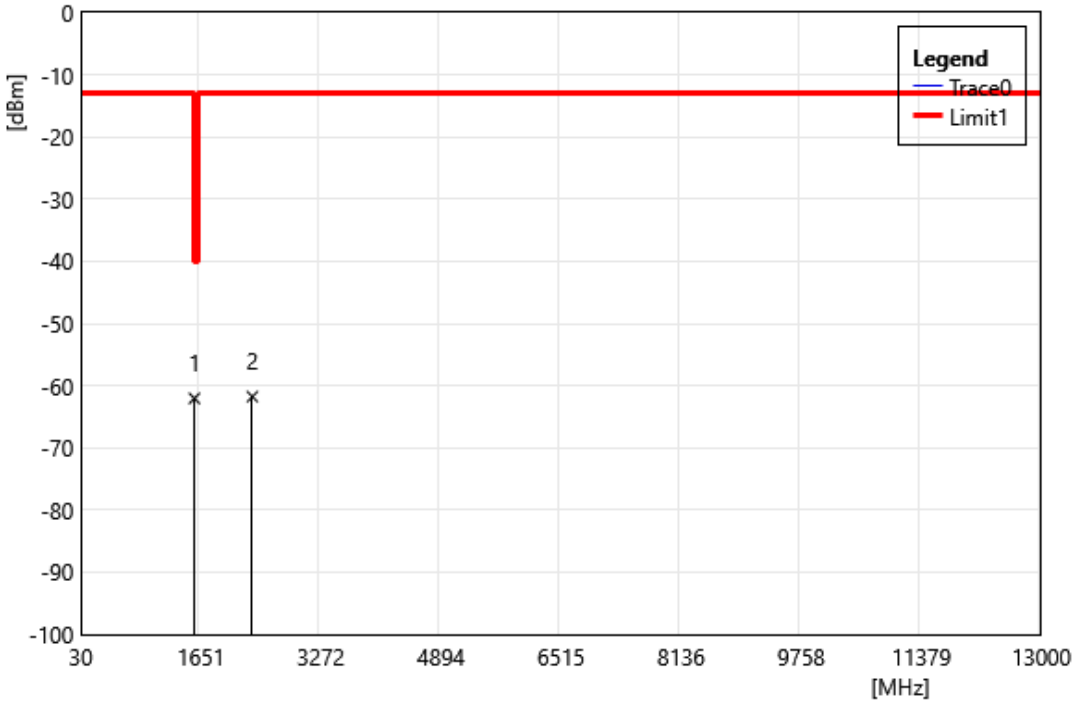
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1422.00	-64.58	0.80	-63.78	-25.00	-38.78	PEAK
2	2133.00	-64.91	2.87	-62.04	-25.00	-37.04	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	13_10MHz_QPSK_CH23230		
Polarization:	Vertical		
Remark:			



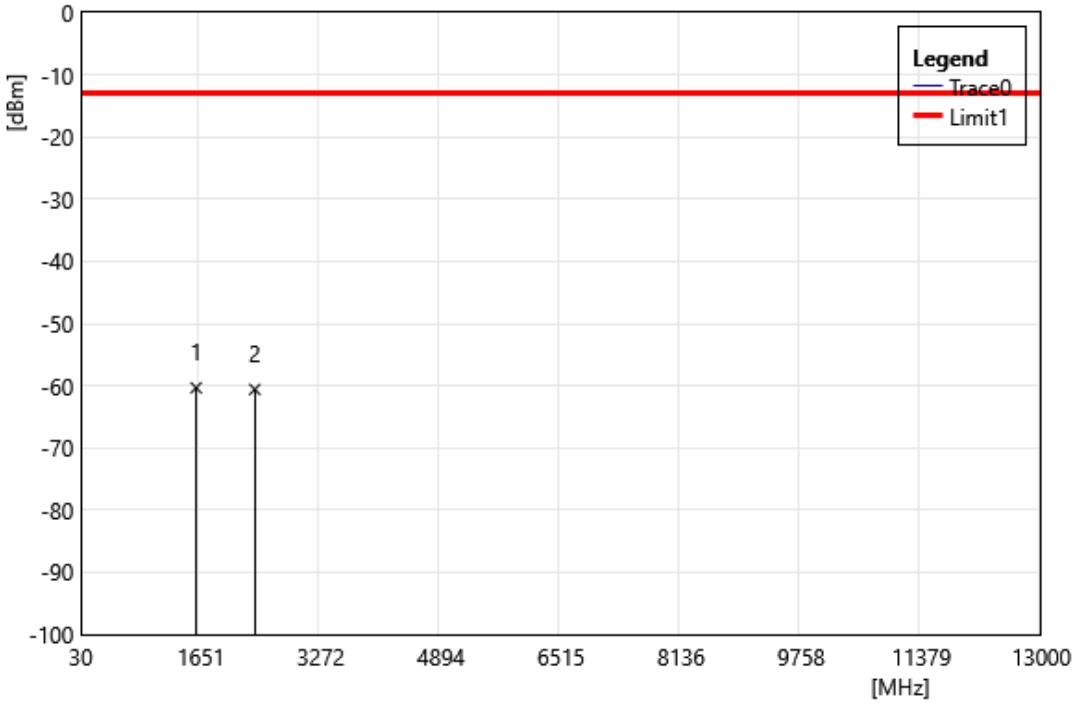
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1564.00	-62.94	1.33	-61.61	-25.00	-36.61	PEAK
2	2346.00	-65.03	3.48	-61.55	-25.00	-36.55	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	13_10MHz_QPSK_CH23230		
Polarization:	Horizontal		
Remark:			



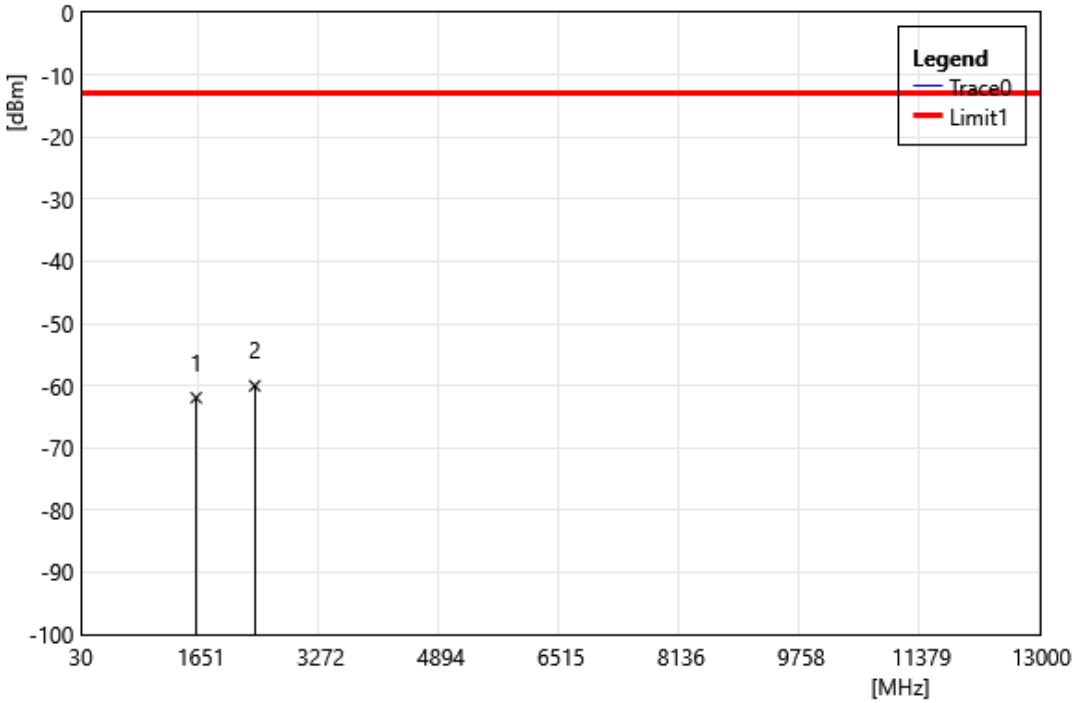
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1564.00	-63.37	1.33	-62.04	-40.00	-22.04	PEAK
2	2346.00	-65.23	3.48	-61.75	-13.00	-48.75	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	14_10MHz_QPSK_CH23330		
Polarization:	Vertical		
Remark:			



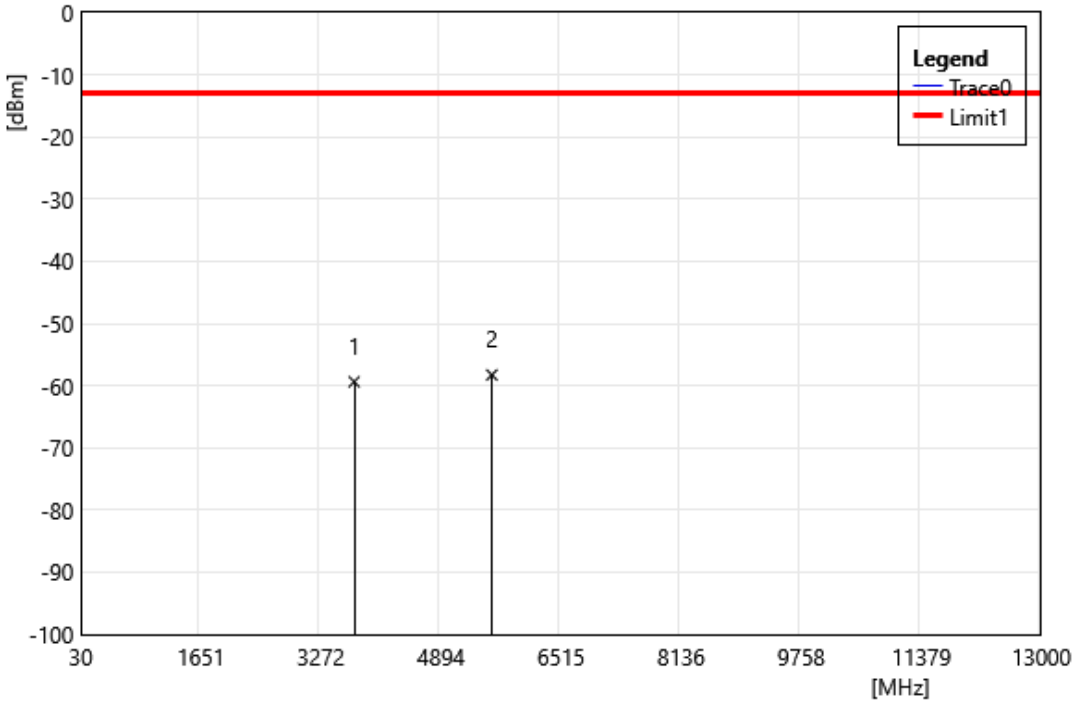
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1586.00	-61.73	1.39	-60.34	-13.00	-47.34	PEAK
2	2379.00	-64.18	3.58	-60.60	-13.00	-47.60	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	14_10MHz_QPSK_CH23330		
Polarization:	Horizontal		
Remark:			



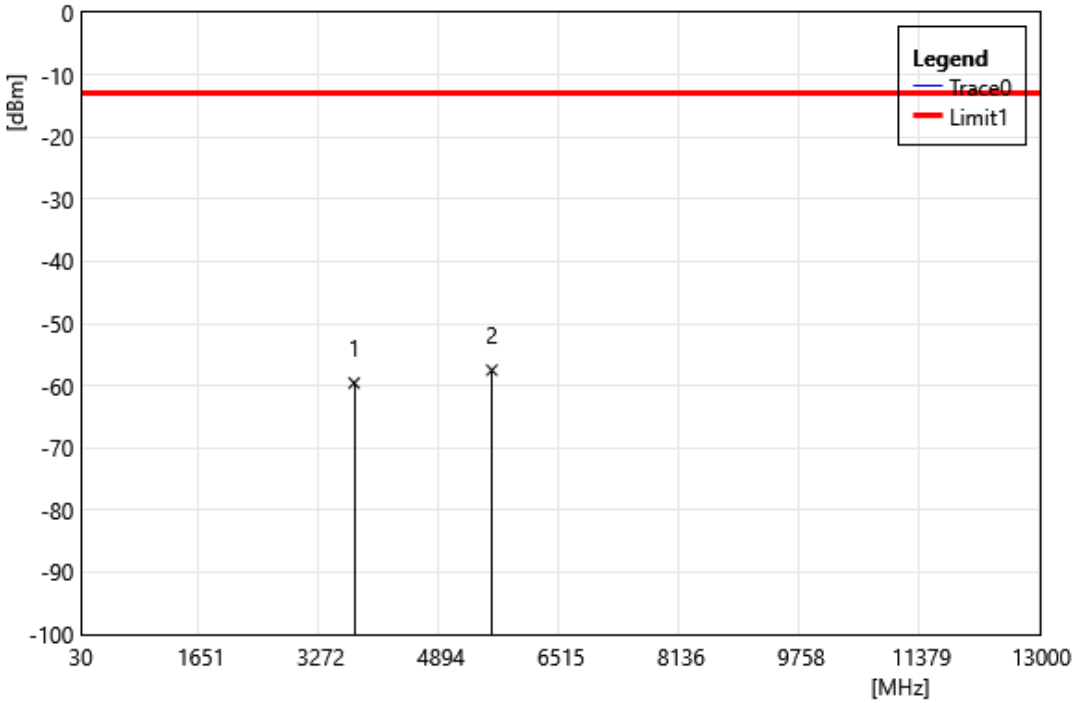
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1586.00	-63.33	1.39	-61.94	-13.00	-48.94	PEAK
2	2379.00	-63.59	3.58	-60.01	-13.00	-47.01	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	25_20MHz_QPSK_CH26140		
Polarization:	Vertical		
Remark:			



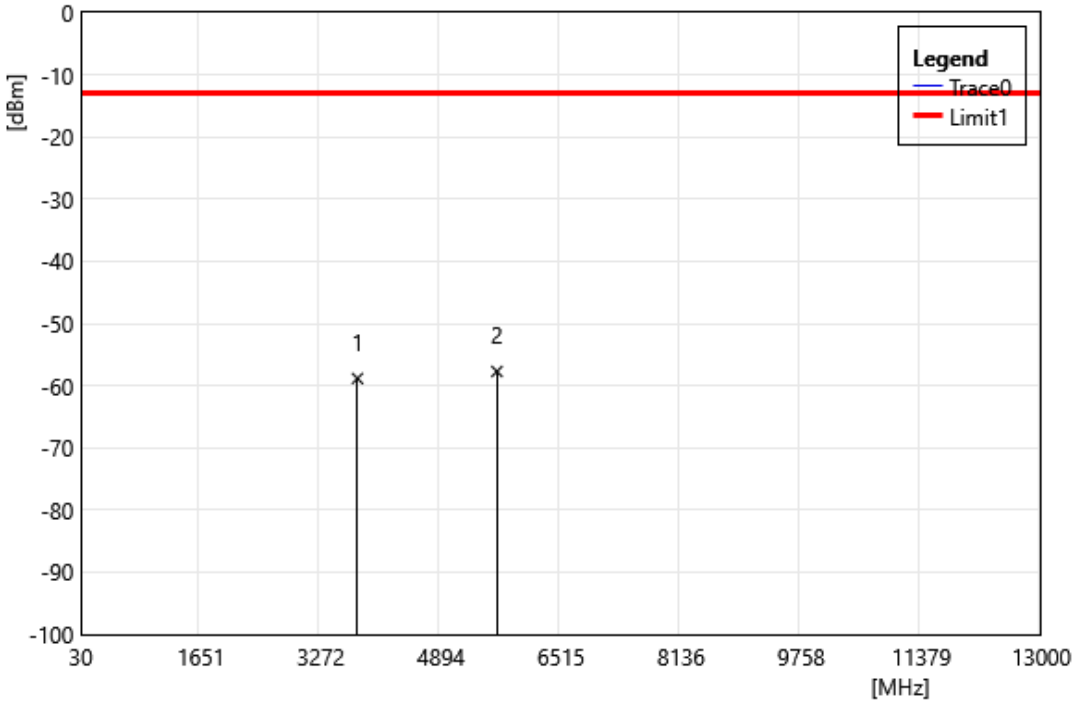
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3720.00	-66.26	6.89	-59.37	-13.00	-46.37	PEAK
2	5580.00	-69.76	11.49	-58.27	-13.00	-45.27	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	25_20MHz_QPSK_CH26140		
Polarization:	Horizontal		
Remark:			



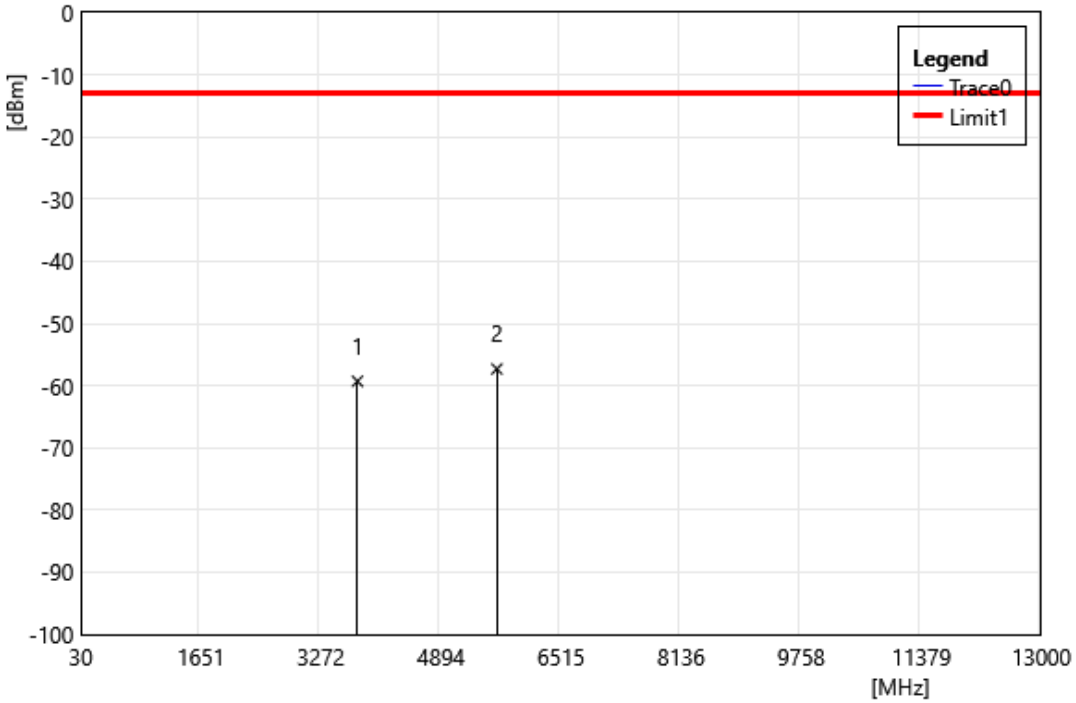
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3720.00	-66.46	6.89	-59.57	-13.00	-46.57	PEAK
2	5580.00	-68.98	11.49	-57.49	-13.00	-44.49	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	25_20MHz_QPSK_CH26365		
Polarization:	Vertical		
Remark:			



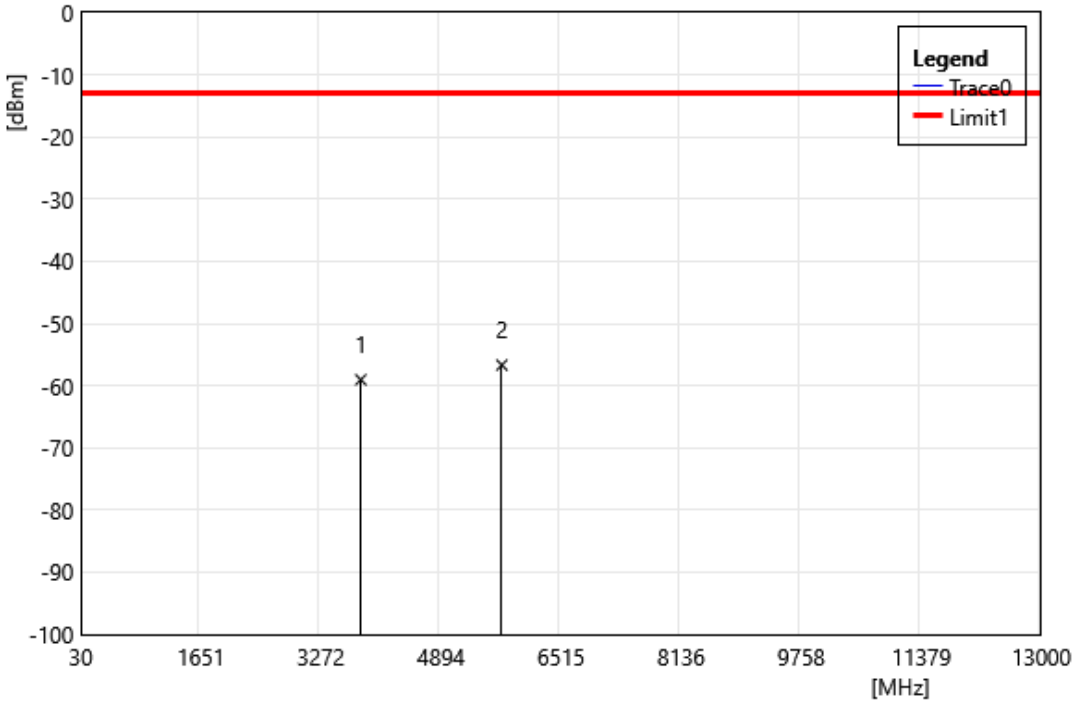
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3765.00	-65.85	7.02	-58.83	-13.00	-45.83	PEAK
2	5647.50	-69.34	11.63	-57.71	-13.00	-44.71	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	25_20MHz_QPSK_CH26365		
Polarization:	Horizontal		
Remark:			



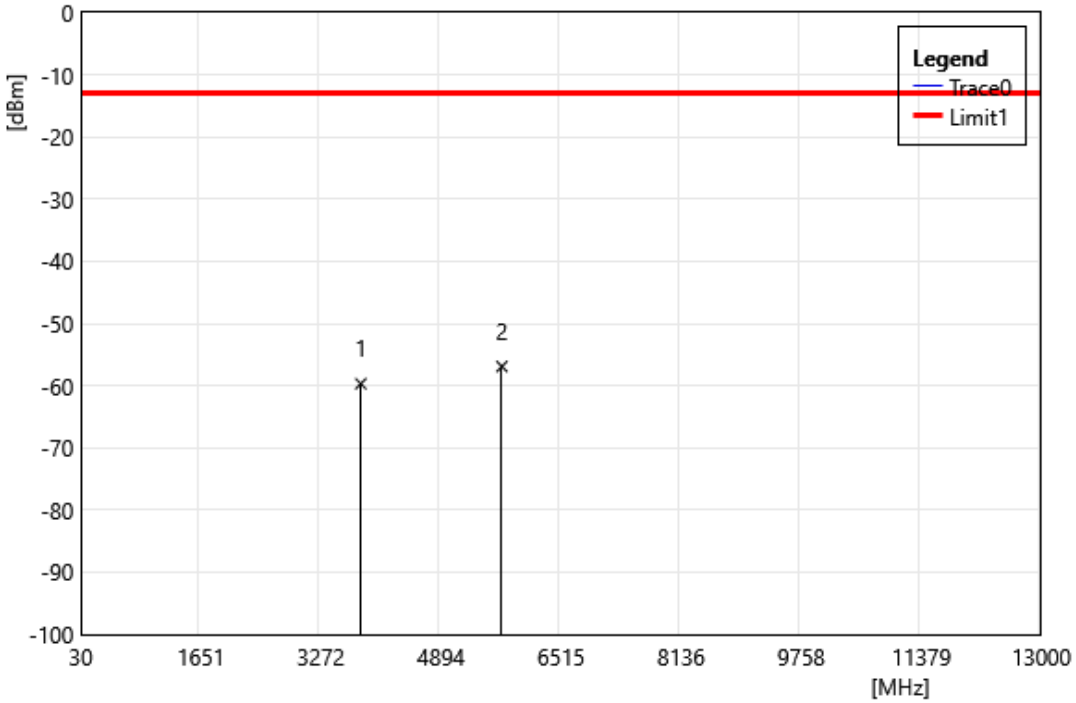
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3765.00	-66.30	7.02	-59.28	-13.00	-46.28	PEAK
2	5647.50	-68.94	11.63	-57.31	-13.00	-44.31	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	25_20MHz_QPSK_CH26590		
Polarization:	Vertical		
Remark:			



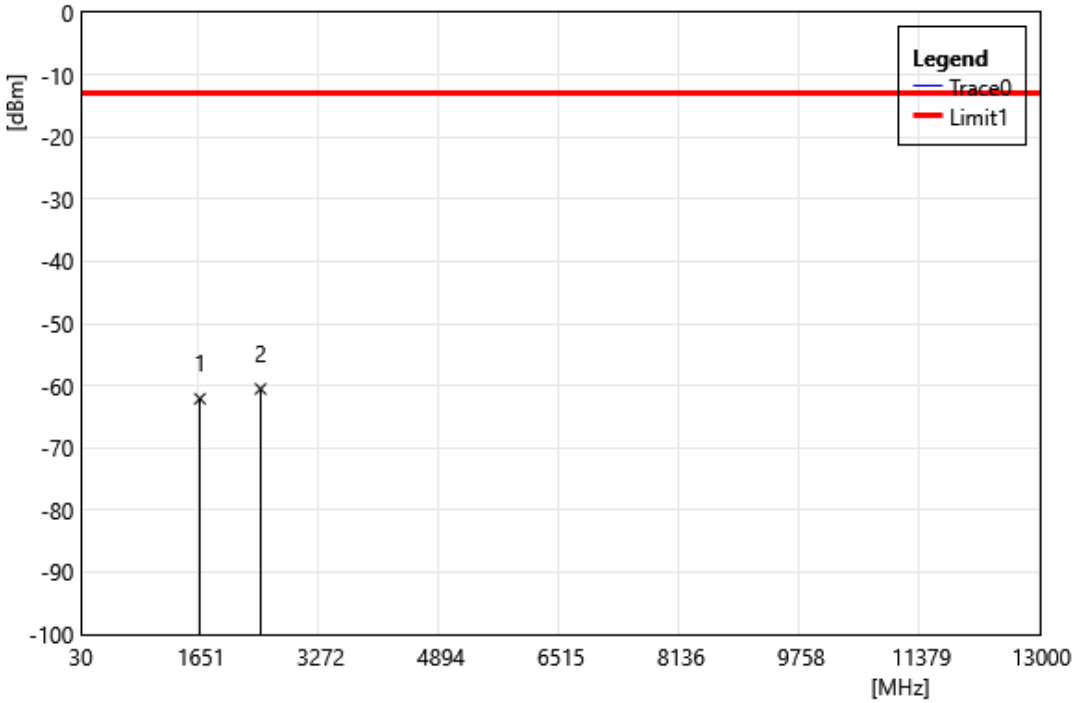
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3810.00	-66.19	7.15	-59.04	-13.00	-46.04	PEAK
2	5715.00	-68.46	11.78	-56.68	-13.00	-43.68	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	25_20MHz_QPSK_CH26590		
Polarization:	Horizontal		
Remark:			



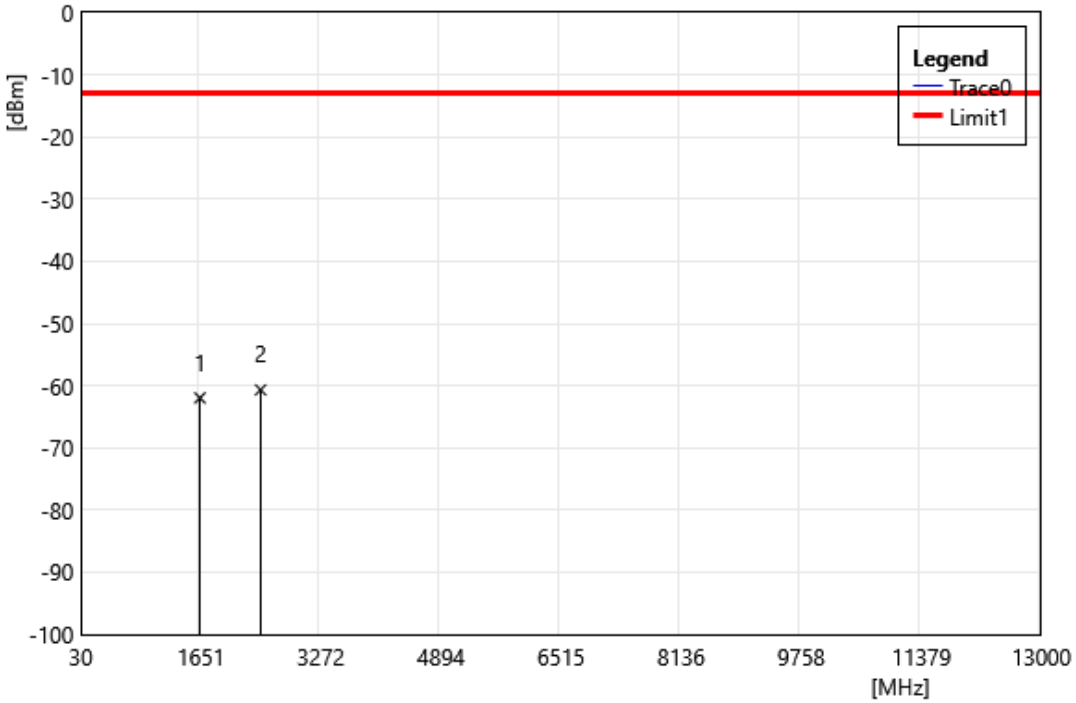
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3810.00	-66.84	7.15	-59.69	-13.00	-46.69	PEAK
2	5715.00	-68.69	11.78	-56.91	-13.00	-43.91	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	26_10MHz_QPSK_CH26740		
Polarization:	Vertical		
Remark:			



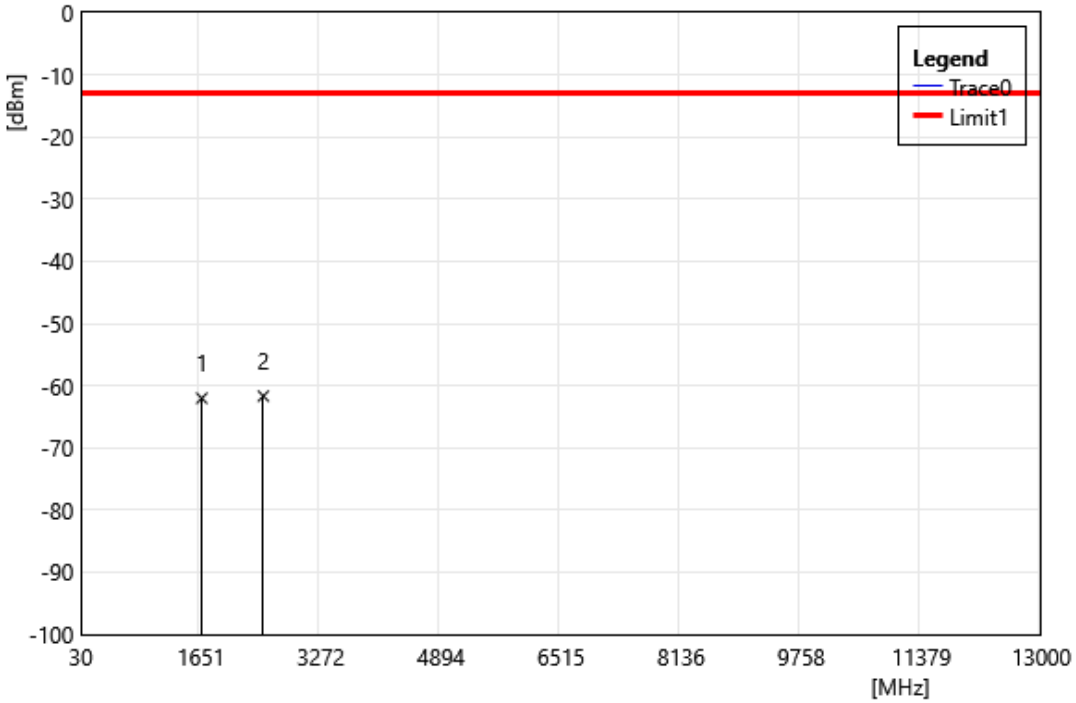
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1638.00	-63.62	1.52	-62.10	-13.00	-49.10	PEAK
2	2457.00	-64.34	3.81	-60.53	-13.00	-47.53	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	26_10MHz_QPSK_CH26740		
Polarization:	Horizontal		
Remark:			



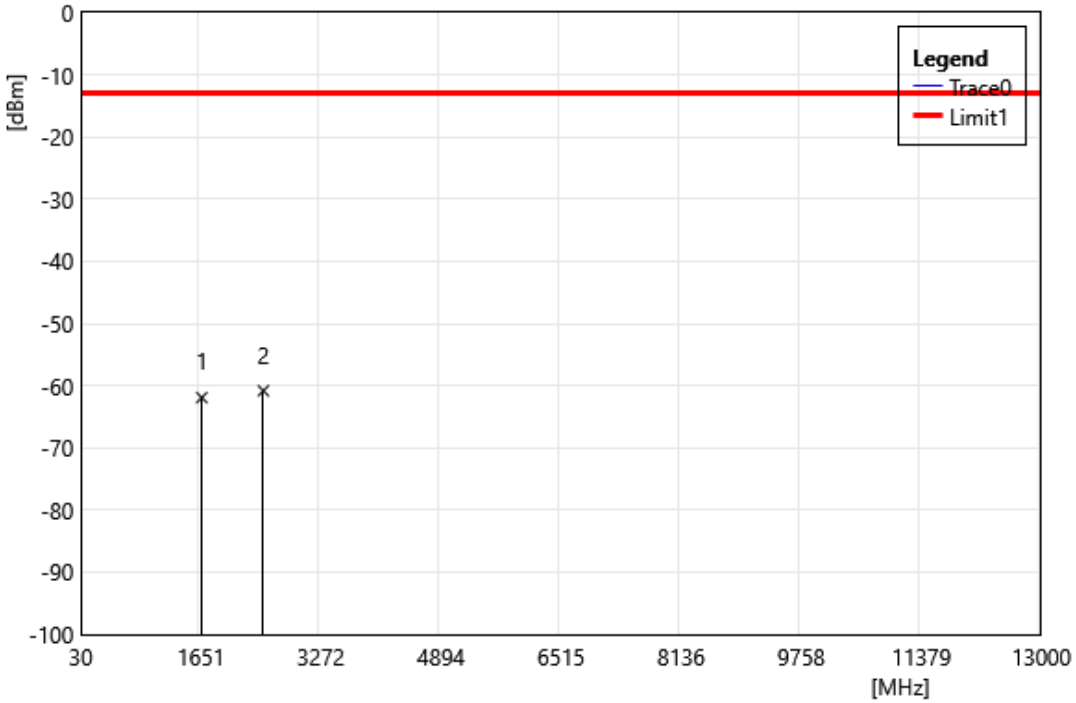
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1638.00	-63.49	1.52	-61.97	-13.00	-48.97	PEAK
2	2457.00	-64.49	3.81	-60.68	-13.00	-47.68	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	26_15MHz_QPSK_CH26865		
Polarization:	Vertical		
Remark:			



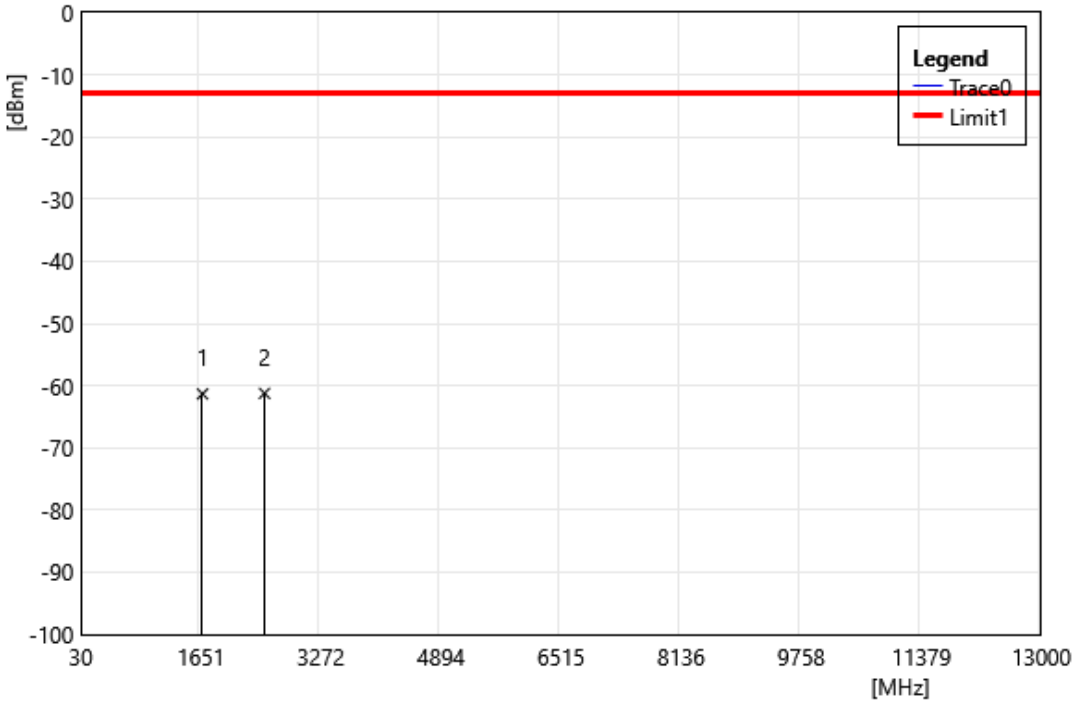
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1663.00	-63.60	1.59	-62.01	-13.00	-49.01	PEAK
2	2494.50	-65.59	3.91	-61.68	-13.00	-48.68	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	26_15MHz_QPSK_CH26865		
Polarization:	Horizontal		
Remark:			



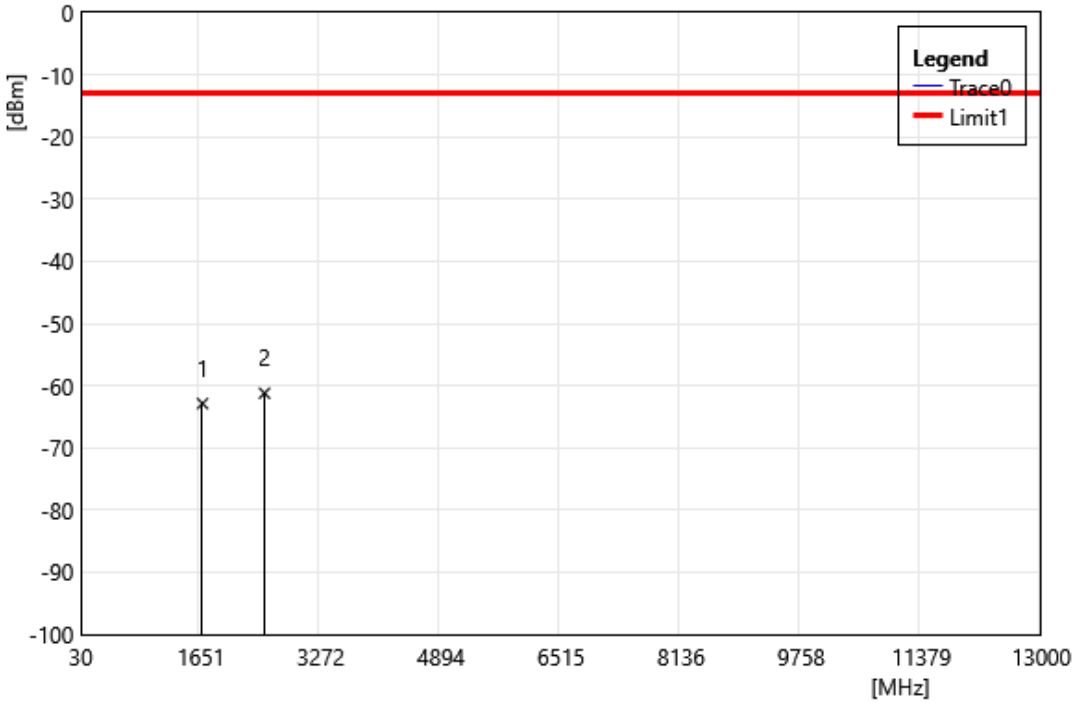
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1663.00	-63.51	1.59	-61.92	-13.00	-48.92	PEAK
2	2494.50	-64.73	3.91	-60.82	-13.00	-47.82	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	26_15MHz_QPSK_CH26915		
Polarization:	Vertical		
Remark:			



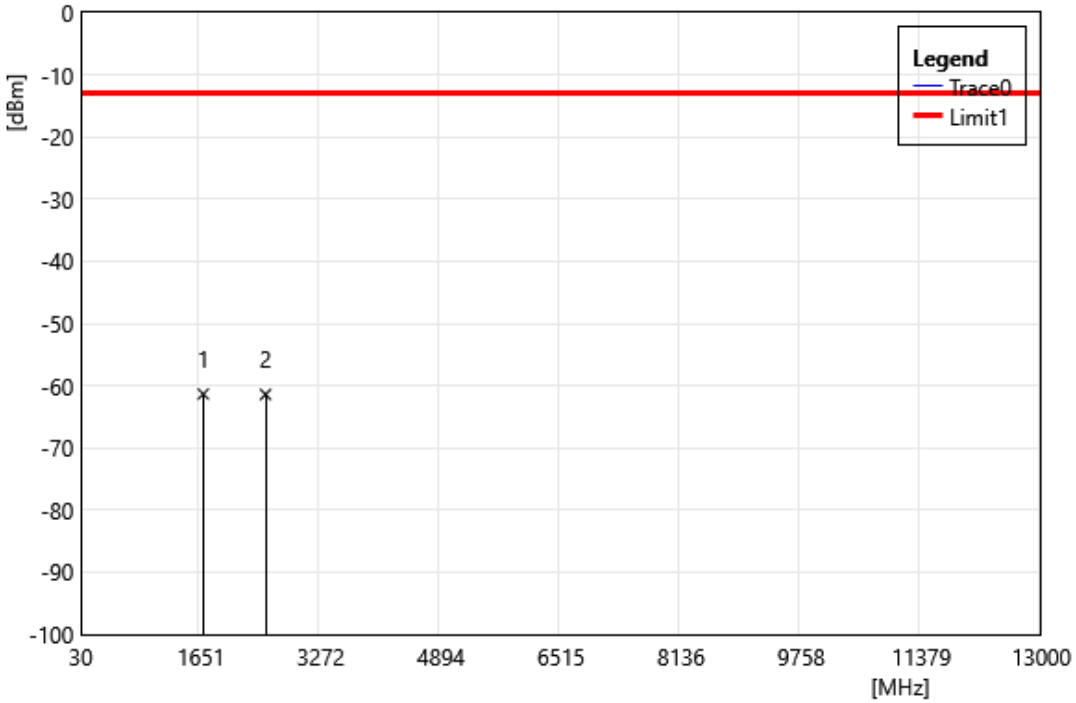
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1673.00	-62.94	1.62	-61.32	-13.00	-48.32	PEAK
2	2509.50	-65.20	3.97	-61.23	-13.00	-48.23	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	26_15MHz_QPSK_CH26915		
Polarization:	Horizontal		
Remark:			



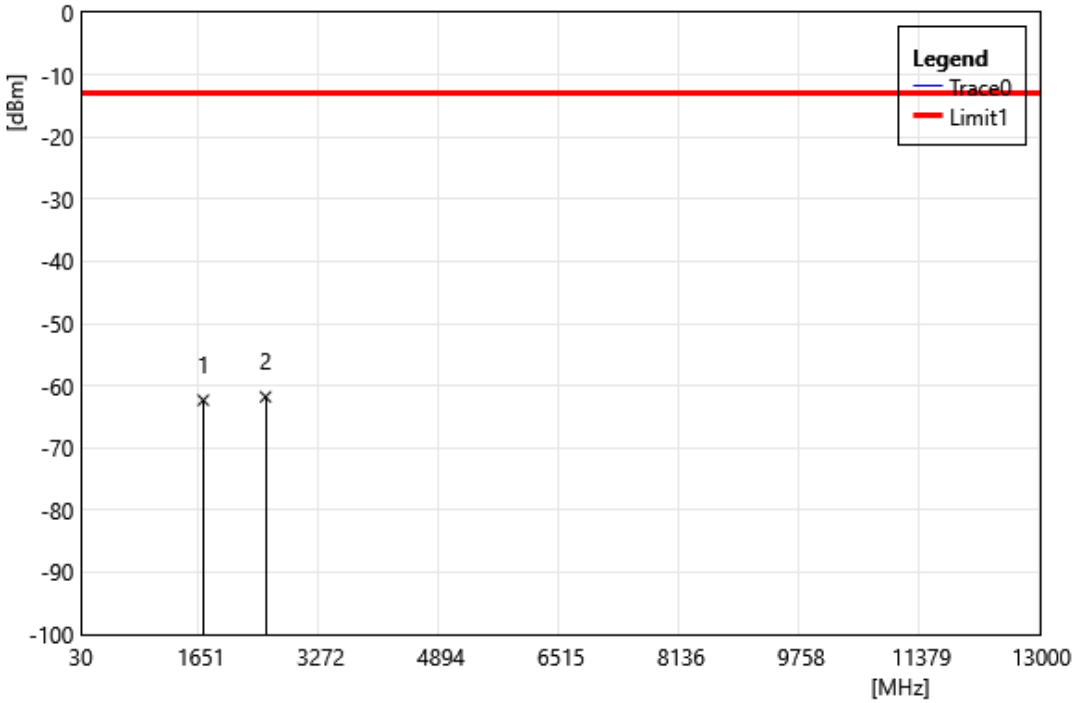
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1673.00	-64.49	1.62	-62.87	-13.00	-49.87	PEAK
2	2509.50	-65.17	3.97	-61.20	-13.00	-48.20	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	26_15MHz_QPSK_CH26965		
Polarization:	Vertical		
Remark:			



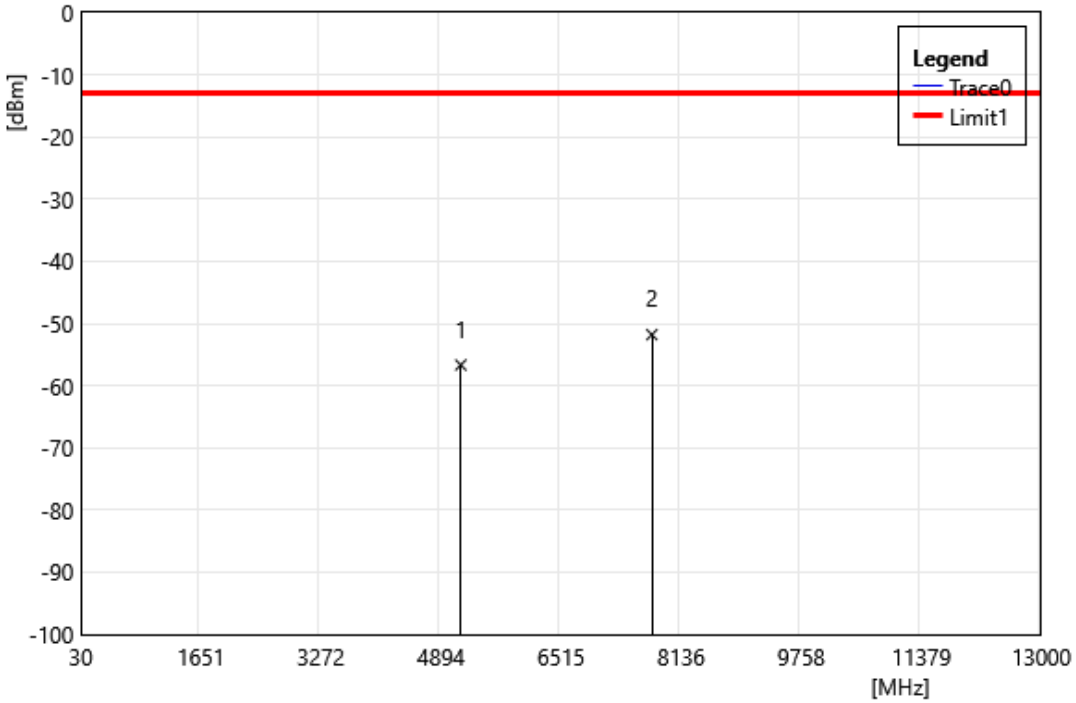
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1683.00	-62.99	1.64	-61.35	-13.00	-48.35	PEAK
2	2524.50	-65.43	4.02	-61.41	-13.00	-48.41	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	26_15MHz_QPSK_CH26965		
Polarization:	Horizontal		
Remark:			



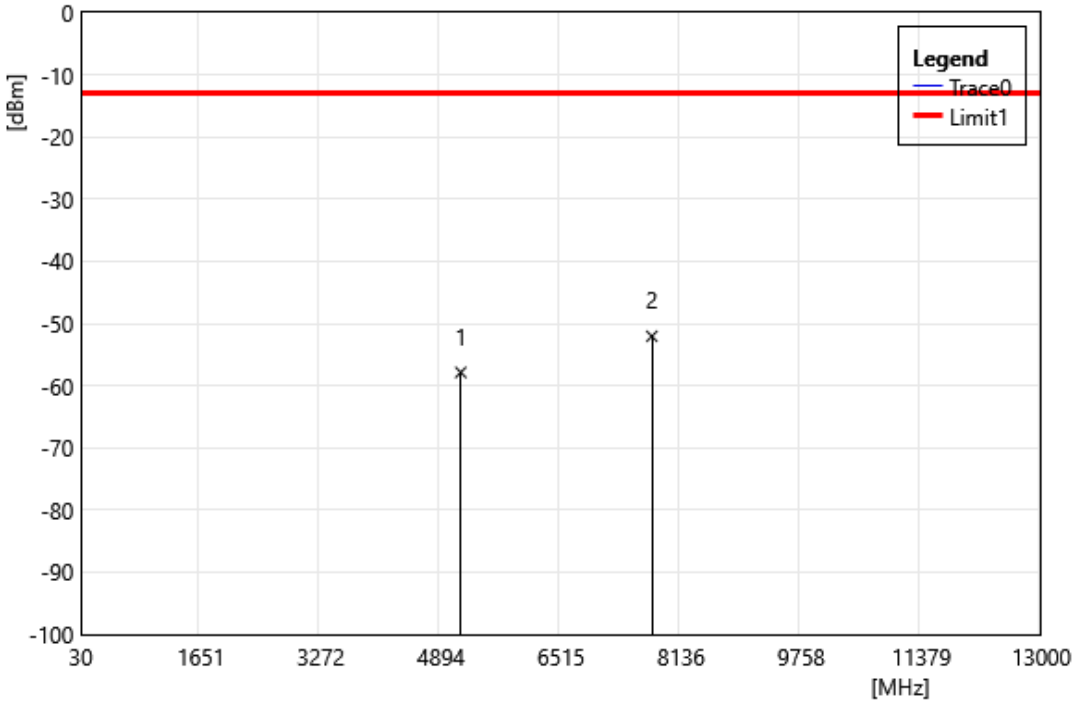
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1683.00	-63.97	1.64	-62.33	-13.00	-49.33	PEAK
2	2524.50	-65.80	4.02	-61.78	-13.00	-48.78	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	38_20MHz_QPSK_CH37850		
Polarization:	Vertical		
Remark:			



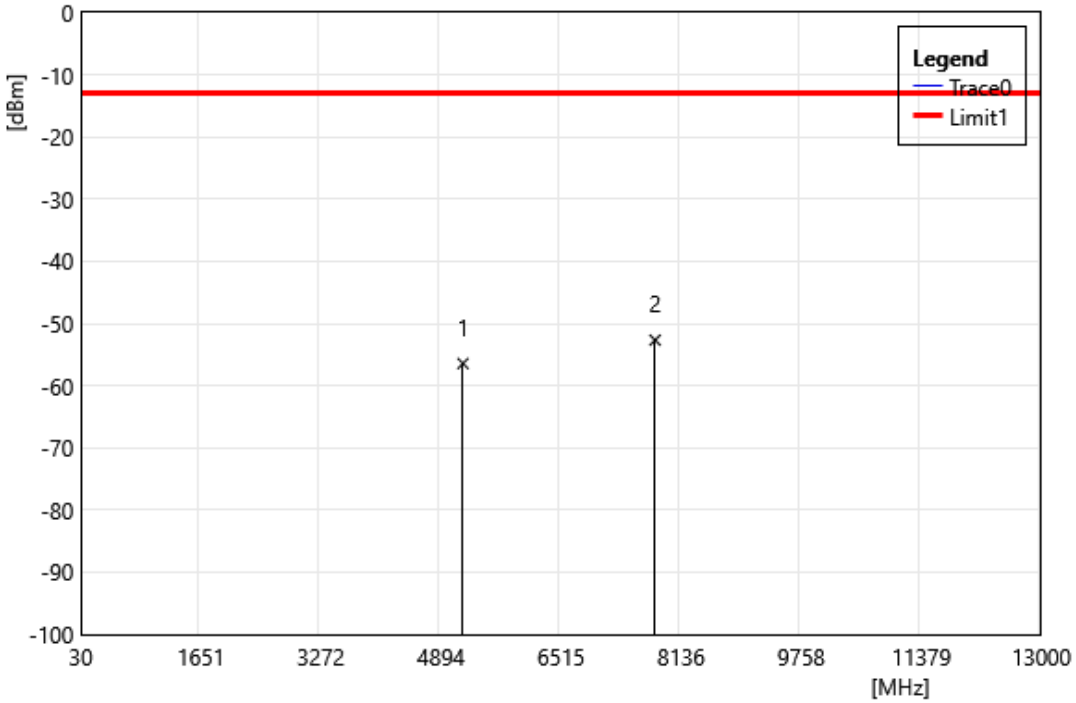
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5160.00	-67.33	10.66	-56.67	-13.00	-43.67	PEAK
2	7740.00	-70.02	18.23	-51.79	-13.00	-38.79	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	38_20MHz_QPSK_CH37850		
Polarization:	Horizontal		
Remark:			



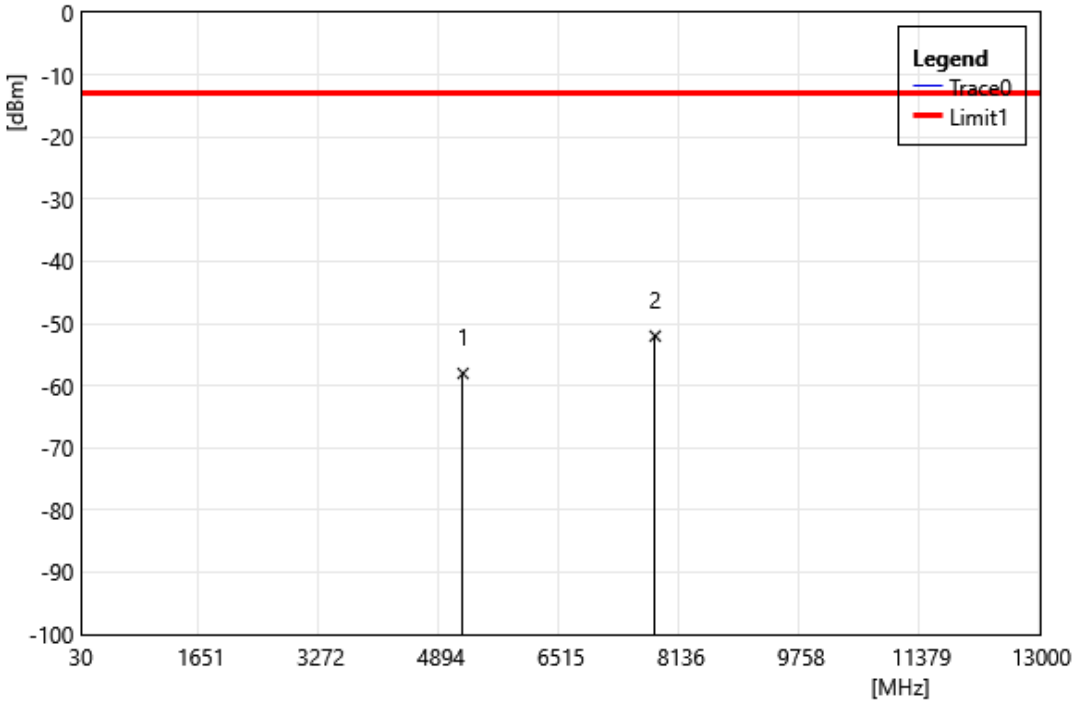
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5160.00	-68.53	10.66	-57.87	-13.00	-44.87	PEAK
2	7740.00	-70.28	18.23	-52.05	-13.00	-39.05	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	38_20MHz_QPSK_CH38000		
Polarization:	Vertical		
Remark:			



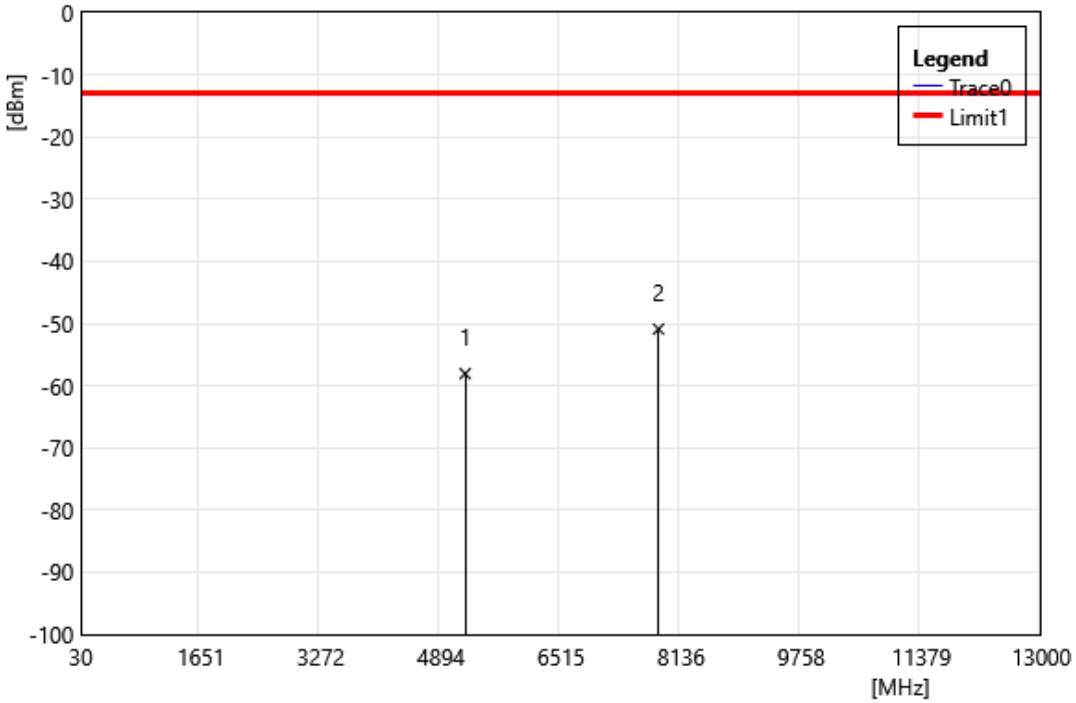
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5190.00	-67.15	10.72	-56.43	-13.00	-43.43	PEAK
2	7785.00	-70.98	18.31	-52.67	-13.00	-39.67	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	38_20MHz_QPSK_CH38000		
Polarization:	Horizontal		
Remark:			



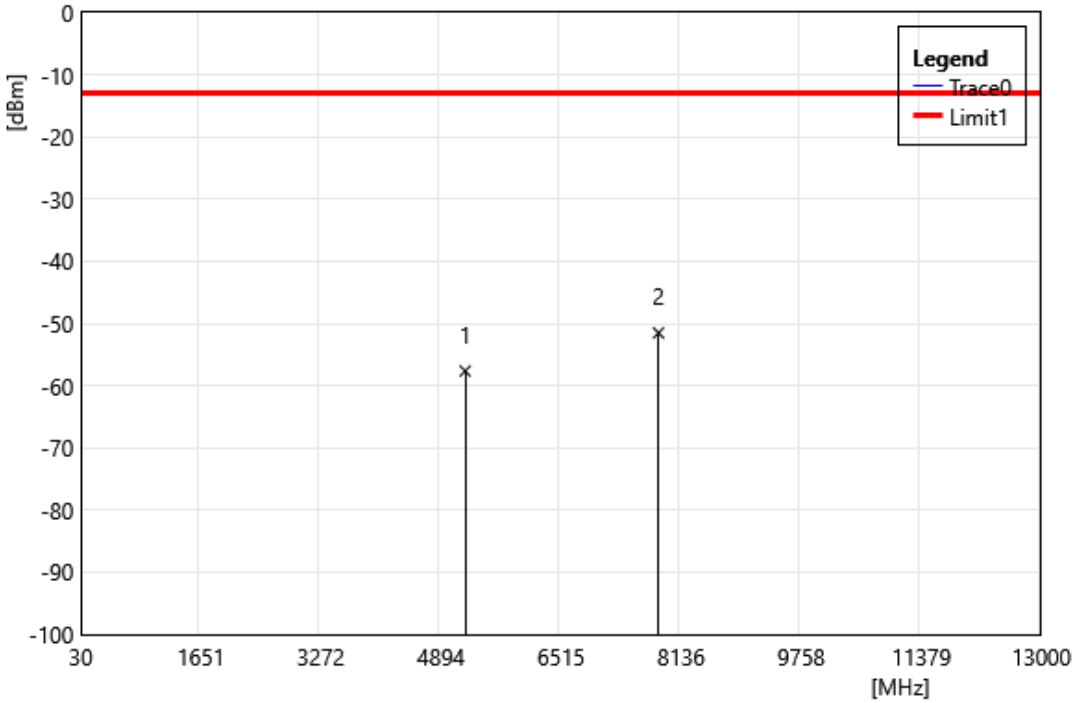
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5190.00	-68.75	10.72	-58.03	-13.00	-45.03	PEAK
2	7785.00	-70.33	18.31	-52.02	-13.00	-39.02	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	38_20MHz_QPSK_CH38150		
Polarization:	Vertical		
Remark:			



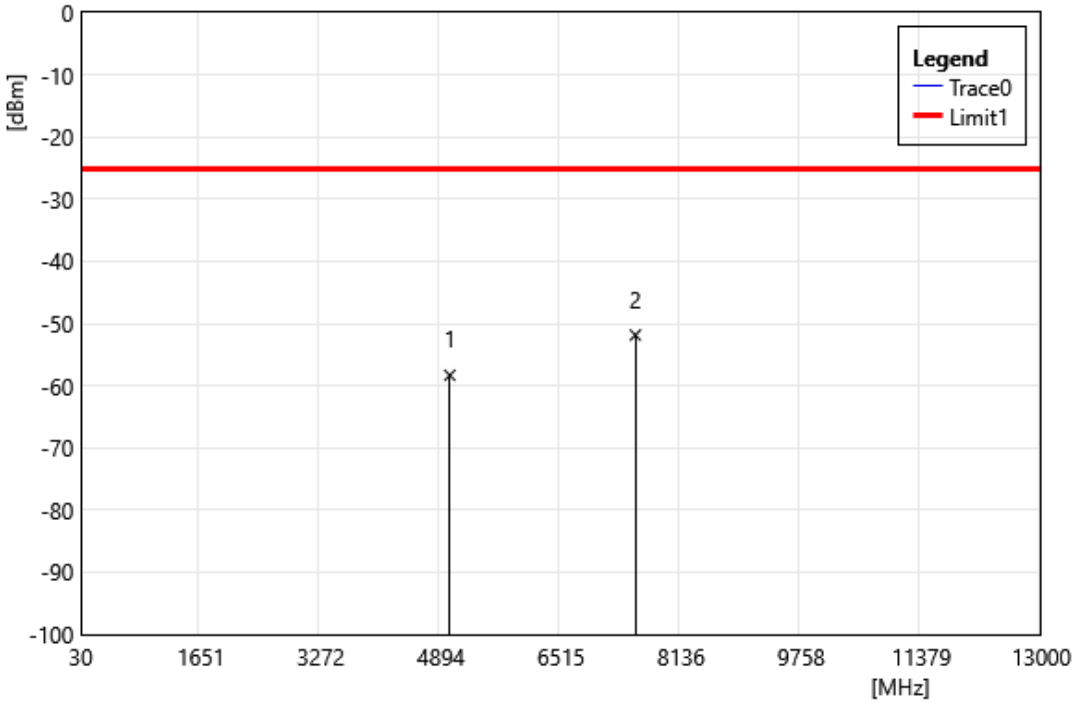
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5220.00	-68.84	10.78	-58.06	-13.00	-45.06	PEAK
2	7830.00	-69.29	18.39	-50.90	-13.00	-37.90	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	38_20MHz_QPSK_CH38150		
Polarization:	Horizontal		
Remark:			



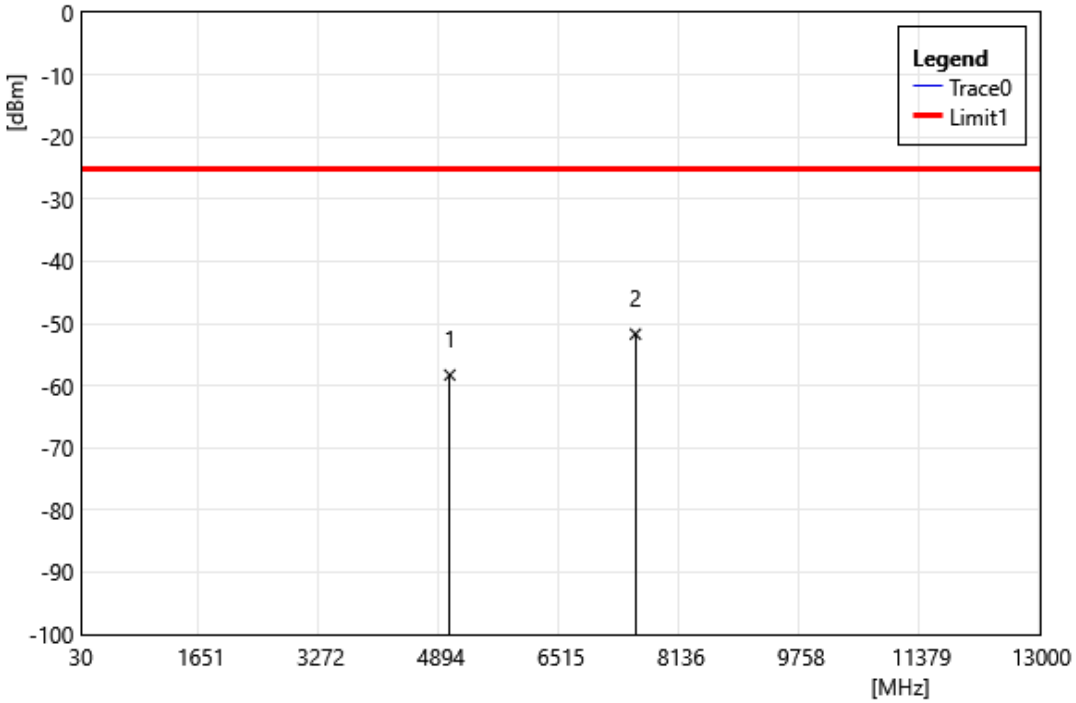
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5220.00	-68.40	10.78	-57.62	-13.00	-44.62	PEAK
2	7830.00	-69.90	18.39	-51.51	-13.00	-38.51	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	41_20MHz_QPSK_CH39750		
Polarization:	Vertical		
Remark:			



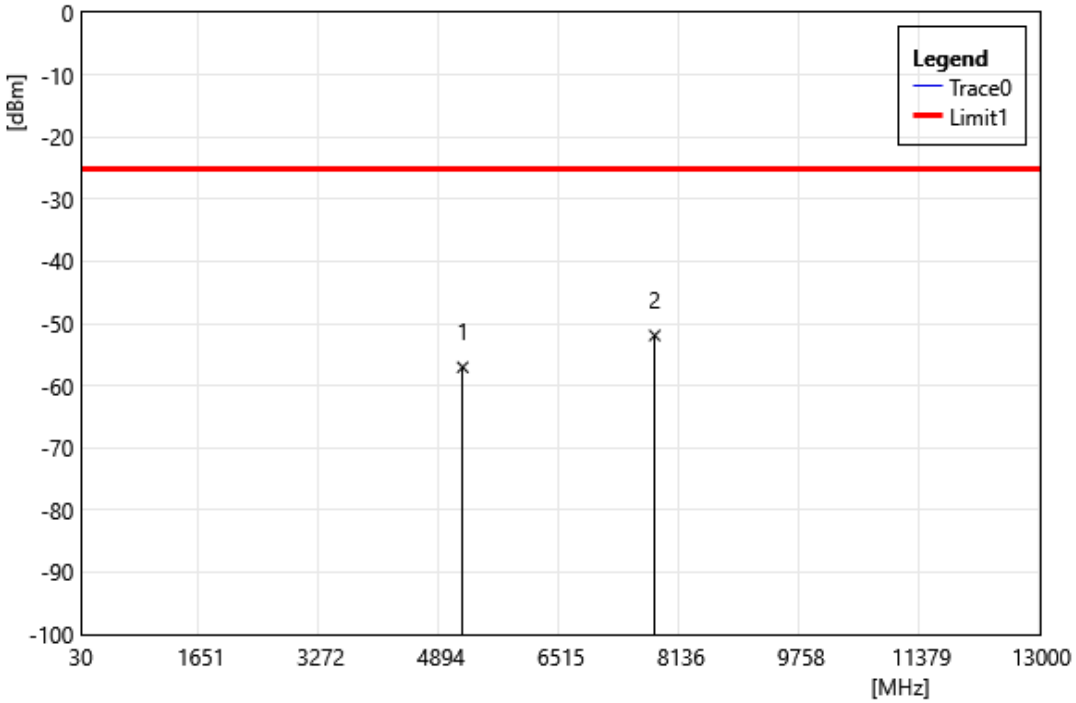
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5012.00	-68.69	10.37	-58.32	-25.00	-33.32	PEAK
2	7518.00	-69.70	17.84	-51.86	-25.00	-26.86	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	41_20MHz_QPSK_CH39750		
Polarization:	Horizontal		
Remark:			



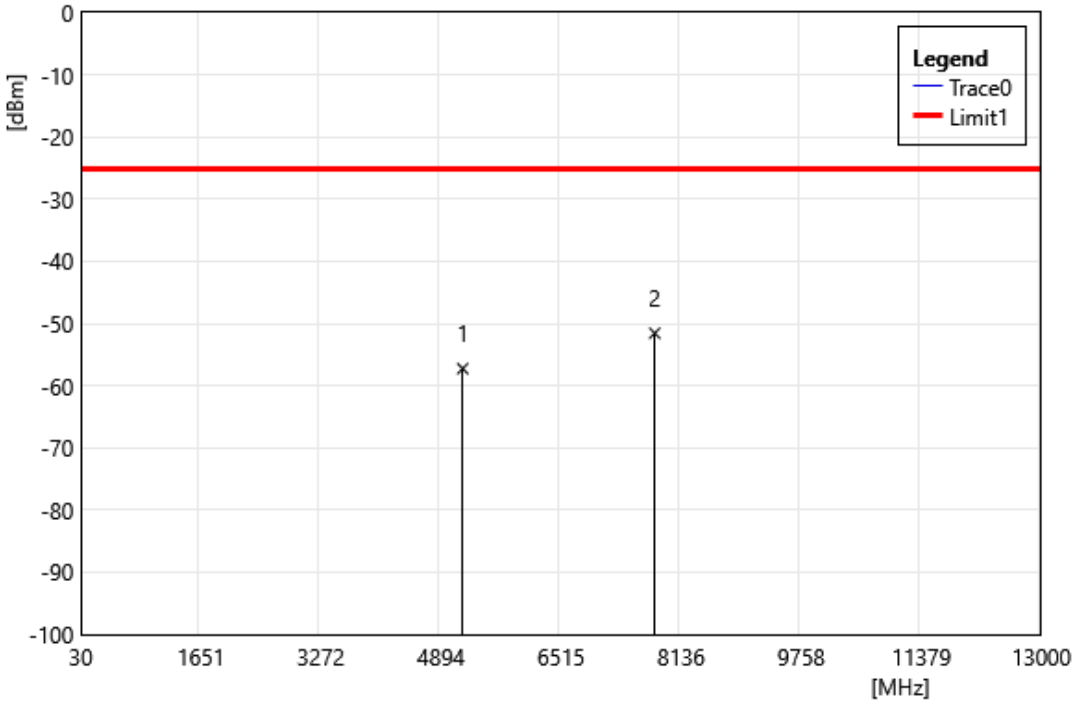
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5012.00	-68.64	10.37	-58.27	-25.00	-33.27	PEAK
2	7518.00	-69.54	17.84	-51.70	-25.00	-26.70	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	41_20MHz_QPSK_CH40620		
Polarization:	Vertical		
Remark:			



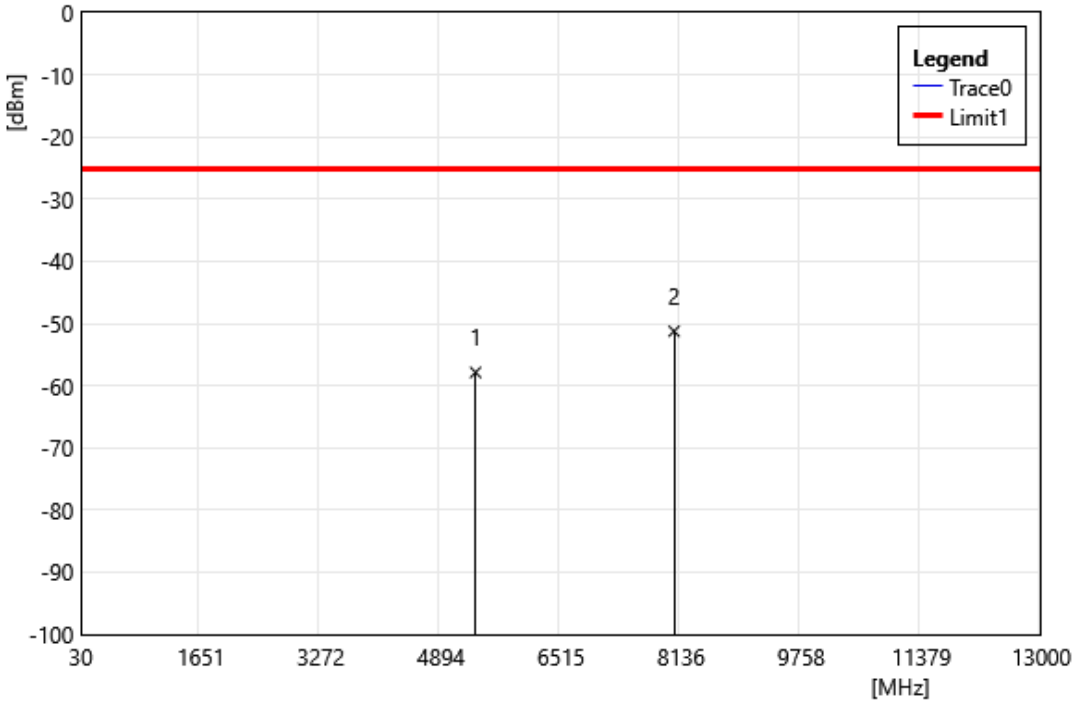
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5186.00	-67.74	10.71	-57.03	-25.00	-32.03	PEAK
2	7779.00	-70.21	18.30	-51.91	-25.00	-26.91	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	41_20MHz_QPSK_CH40620		
Polarization:	Horizontal		
Remark:			



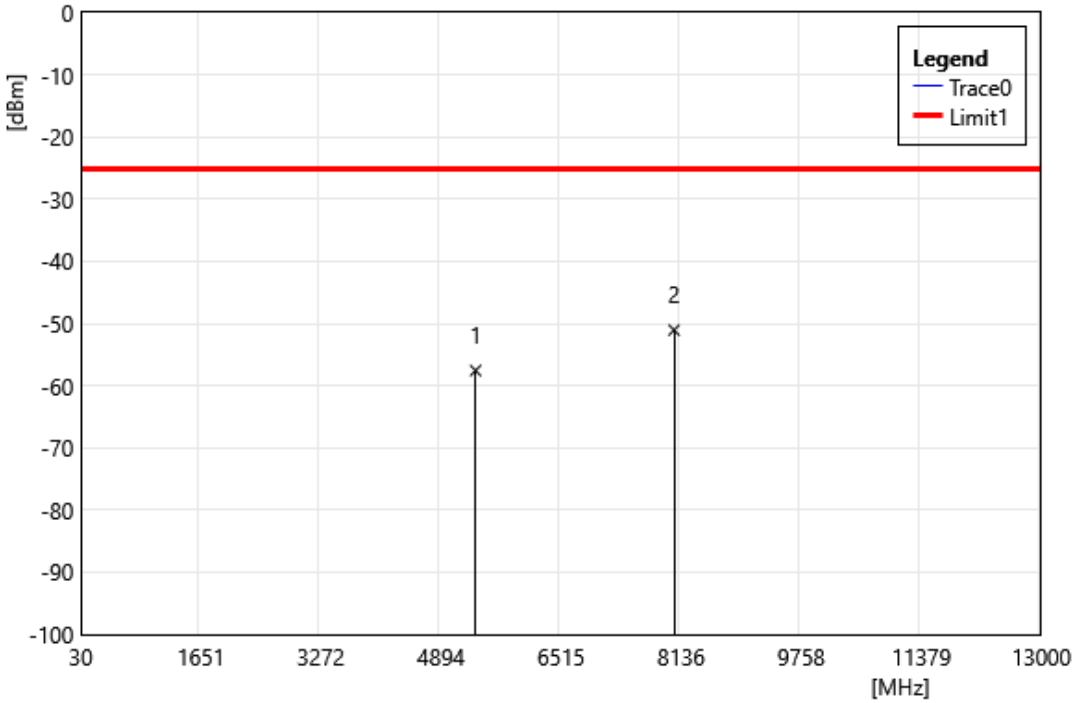
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5186.00	-67.96	10.71	-57.25	-25.00	-32.25	PEAK
2	7779.00	-69.86	18.30	-51.56	-25.00	-26.56	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	41_20MHz_QPSK_CH41490		
Polarization:	Vertical		
Remark:			



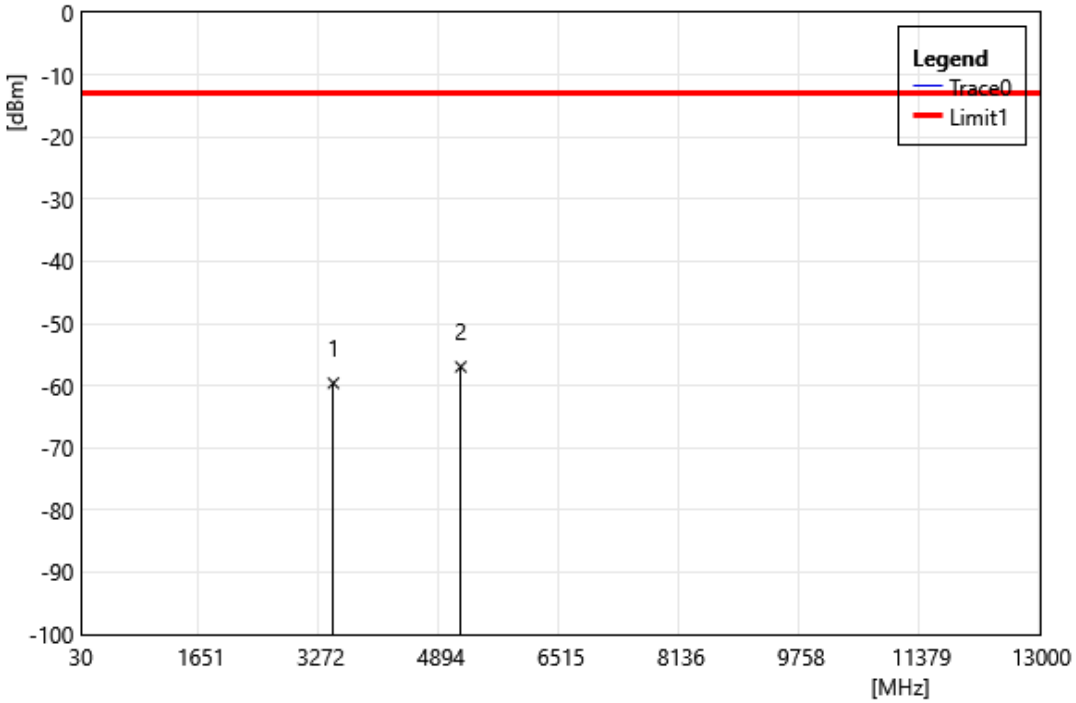
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5360.00	-68.91	11.05	-57.86	-25.00	-32.86	PEAK
2	8040.00	-69.94	18.71	-51.23	-25.00	-26.23	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	41_20MHz_QPSK_CH41490		
Polarization:	Horizontal		
Remark:			



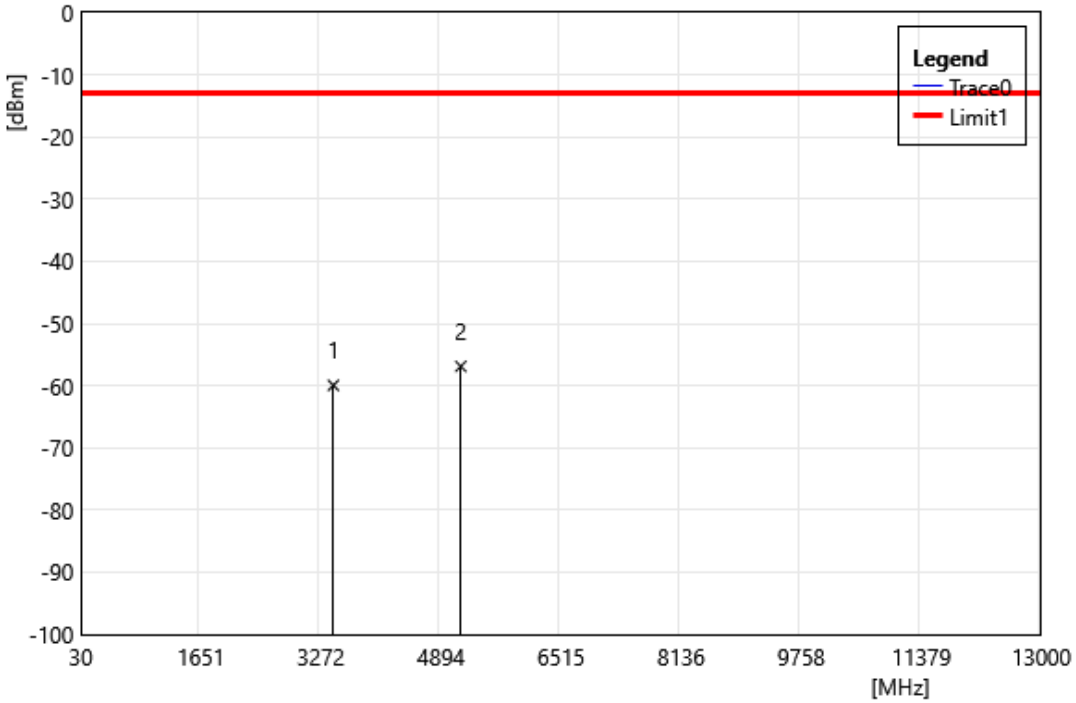
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5360.00	-68.61	11.05	-57.56	-25.00	-32.56	PEAK
2	8040.00	-69.76	18.71	-51.05	-25.00	-26.05	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	66_20MHz_QPSK_CH132072		
Polarization:	Vertical		
Remark:			



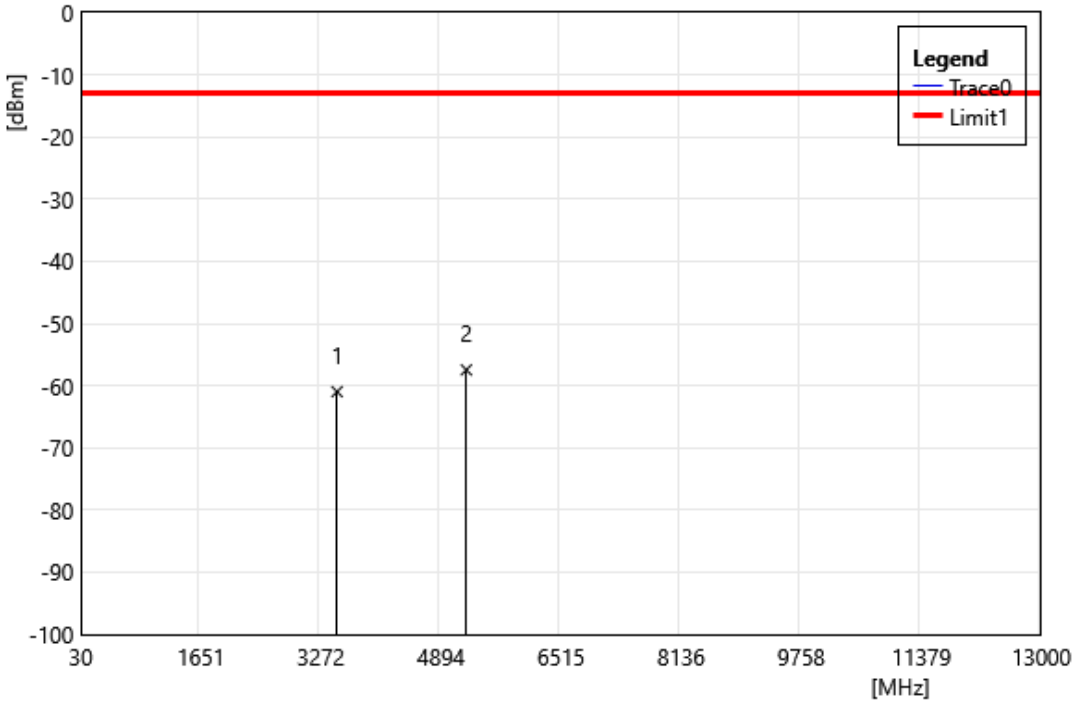
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3440.00	-65.78	6.19	-59.59	-25.00	-34.59	PEAK
2	5160.00	-67.62	10.66	-56.96	-25.00	-31.96	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	66_20MHz_QPSK_CH132072		
Polarization:	Horizontal		
Remark:			



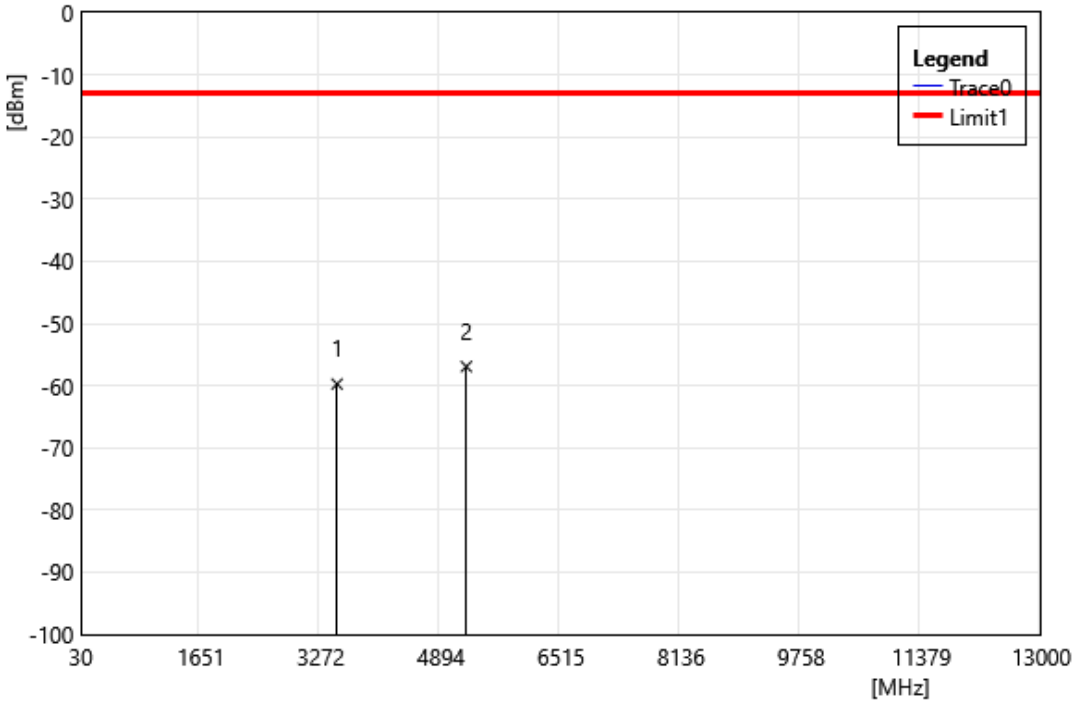
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3440.00	-66.13	6.19	-59.94	-25.00	-34.94	PEAK
2	5160.00	-67.55	10.66	-56.89	-25.00	-31.89	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	66_20MHz_QPSK_CH132322		
Polarization:	Vertical		
Remark:			



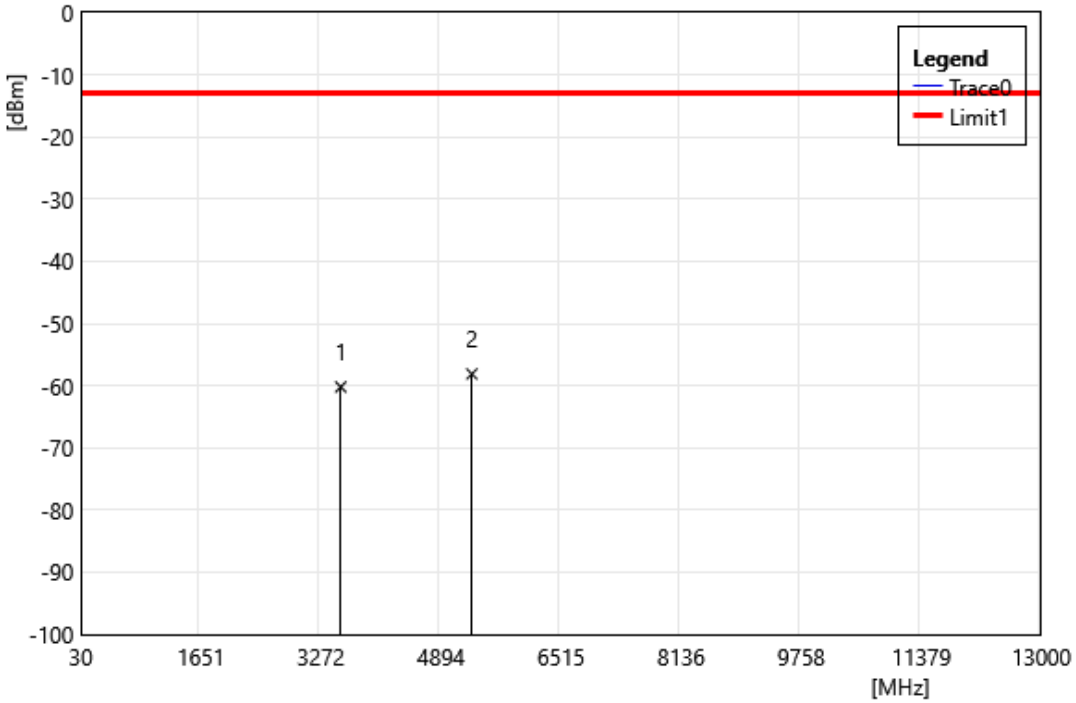
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3490.00	-67.19	6.24	-60.95	-25.00	-35.95	PEAK
2	5235.00	-68.27	10.81	-57.46	-25.00	-32.46	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	66_20MHz_QPSK_CH132322		
Polarization:	Horizontal		
Remark:			



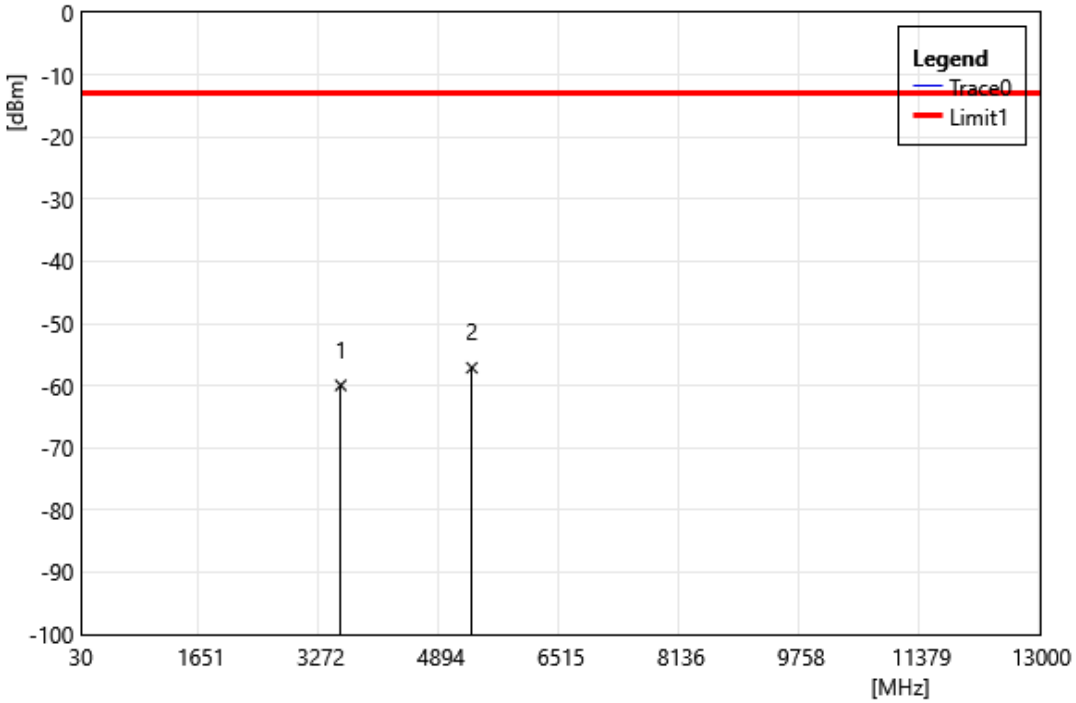
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3490.00	-65.97	6.24	-59.73	-25.00	-34.73	PEAK
2	5235.00	-67.73	10.81	-56.92	-25.00	-31.92	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	66_20MHz_QPSK_CH132572		
Polarization:	Vertical		
Remark:			



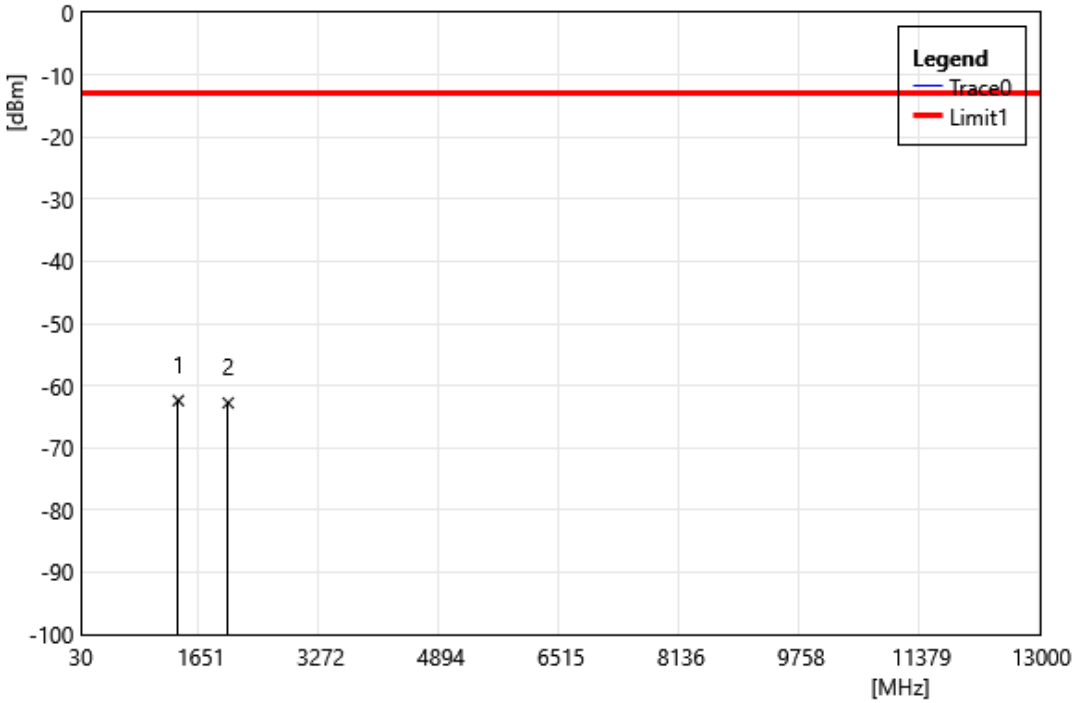
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3540.00	-66.56	6.36	-60.20	-25.00	-35.20	PEAK
2	5310.00	-69.06	10.95	-58.11	-25.00	-33.11	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	66_20MHz_QPSK_CH132572		
Polarization:	Horizontal		
Remark:			



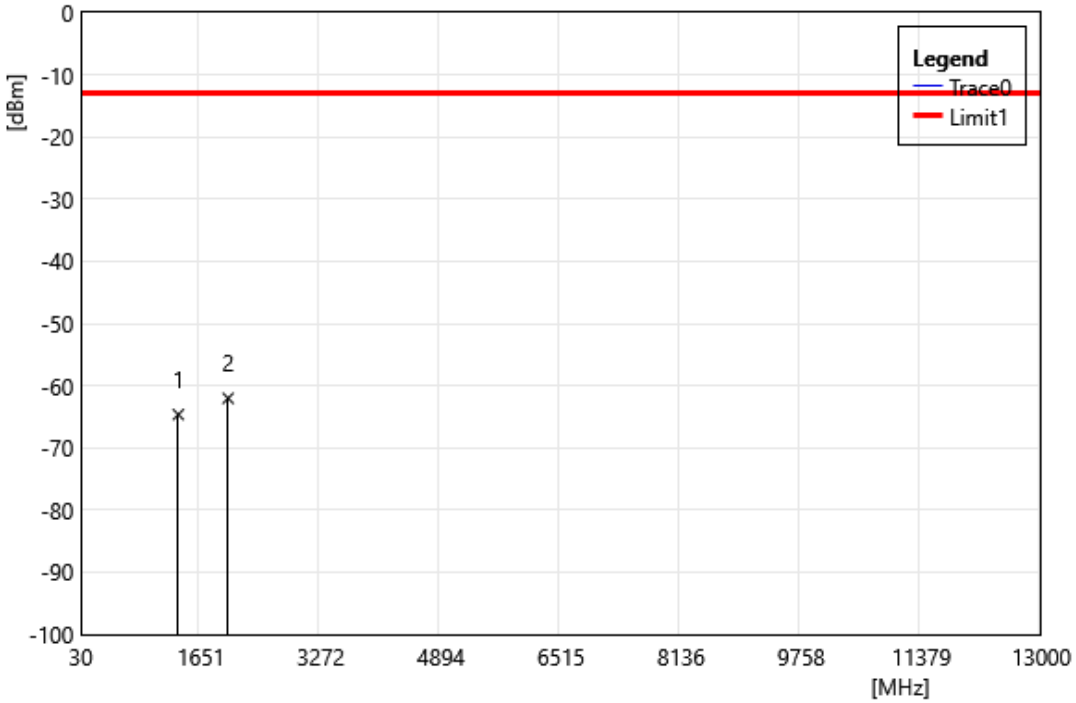
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3540.00	-66.30	6.36	-59.94	-25.00	-34.94	PEAK
2	5310.00	-68.07	10.95	-57.12	-25.00	-32.12	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	71_20MHz_QPSK_CH133222		
Polarization:	Vertical		
Remark:			



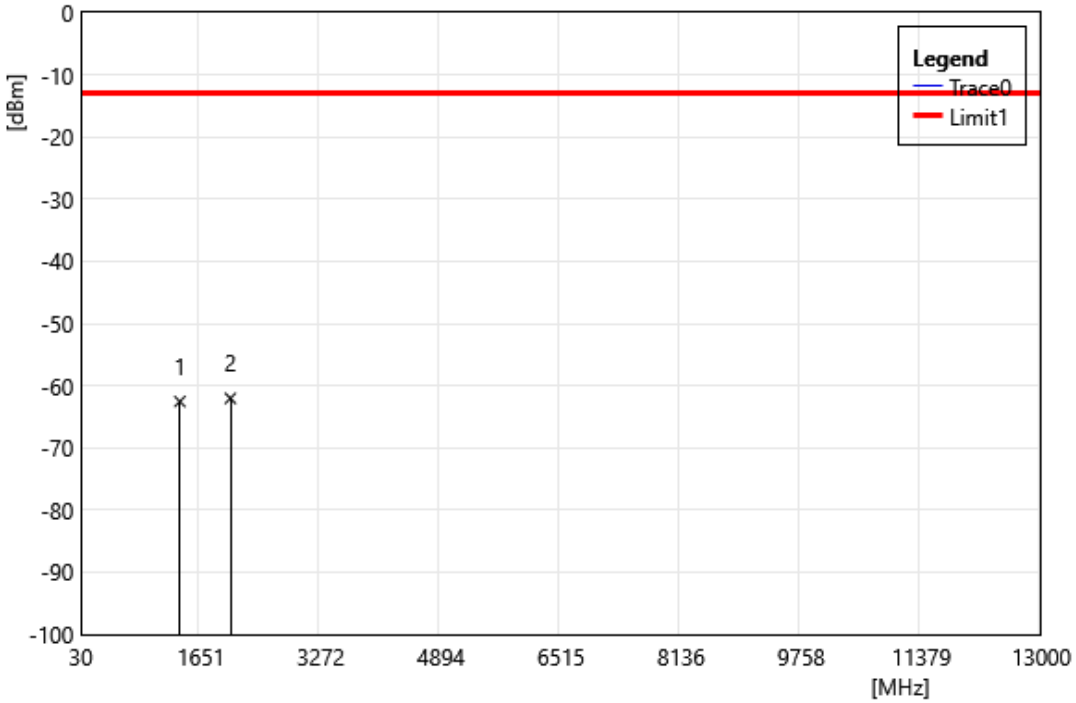
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1346.00	-62.85	0.46	-62.39	-13.00	-49.39	PEAK
2	2019.00	-65.31	2.54	-62.77	-13.00	-49.77	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	71_20MHz_QPSK_CH133222		
Polarization:	Horizontal		
Remark:			



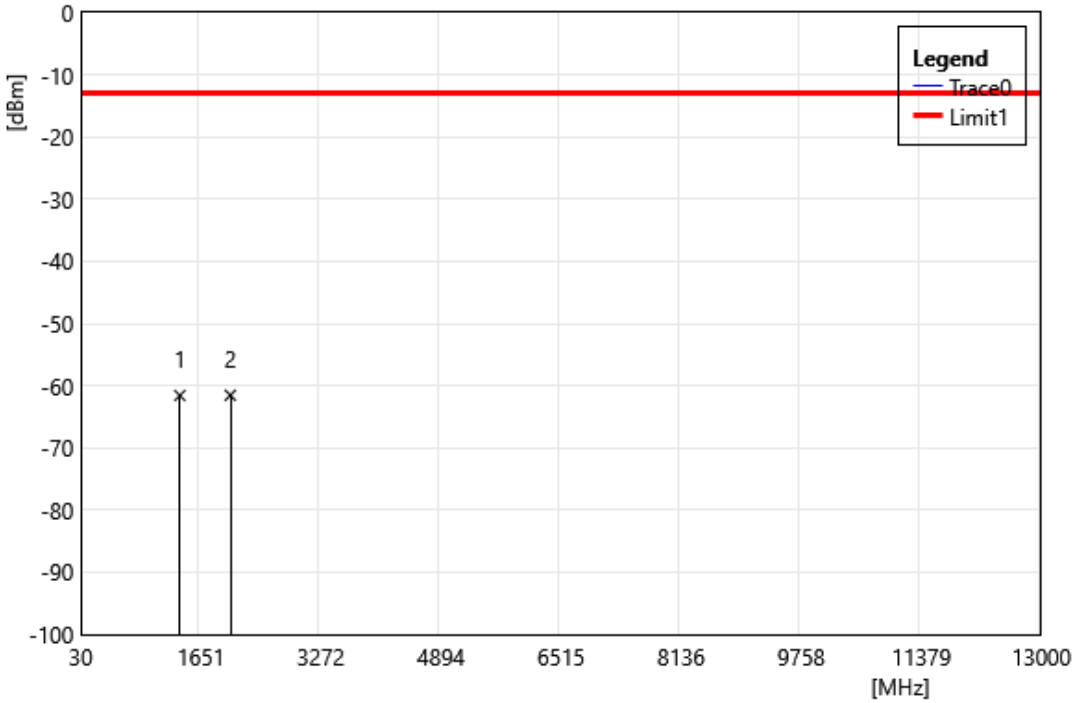
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1346.00	-65.10	0.46	-64.64	-13.00	-51.64	PEAK
2	2019.00	-64.57	2.54	-62.03	-13.00	-49.03	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	71_20MHz_QPSK_CH133322		
Polarization:	Vertical		
Remark:			



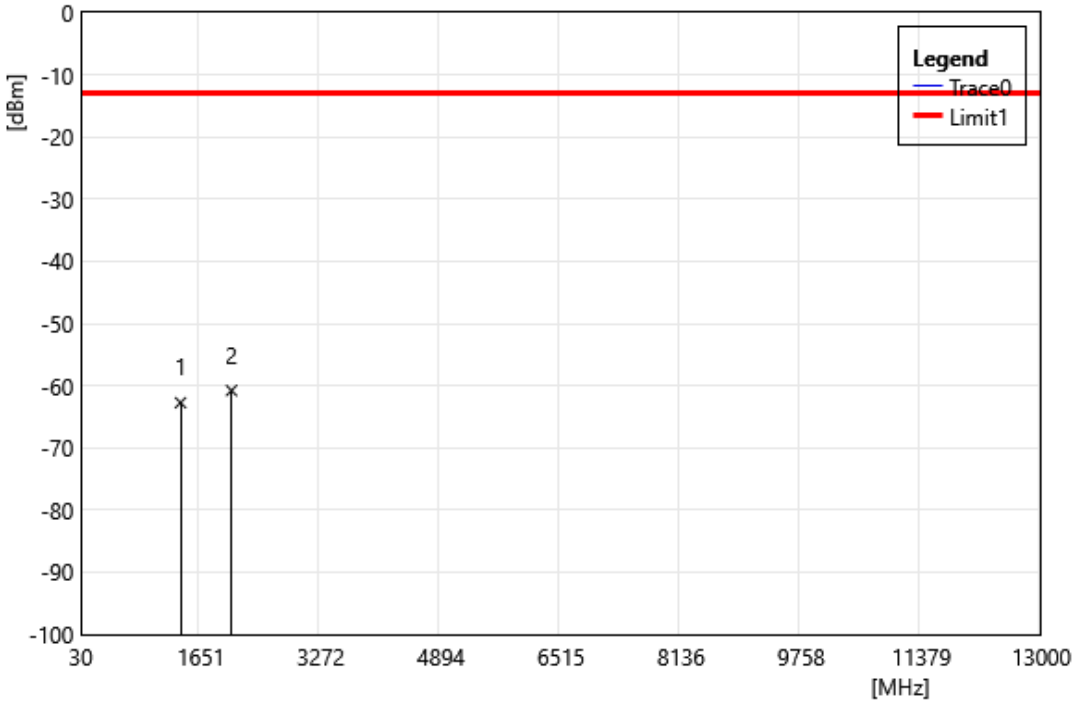
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1366.00	-63.09	0.55	-62.54	-13.00	-49.54	PEAK
2	2049.00	-64.65	2.62	-62.03	-13.00	-49.03	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	71_20MHz_QPSK_CH133322		
Polarization:	Horizontal		
Remark:			



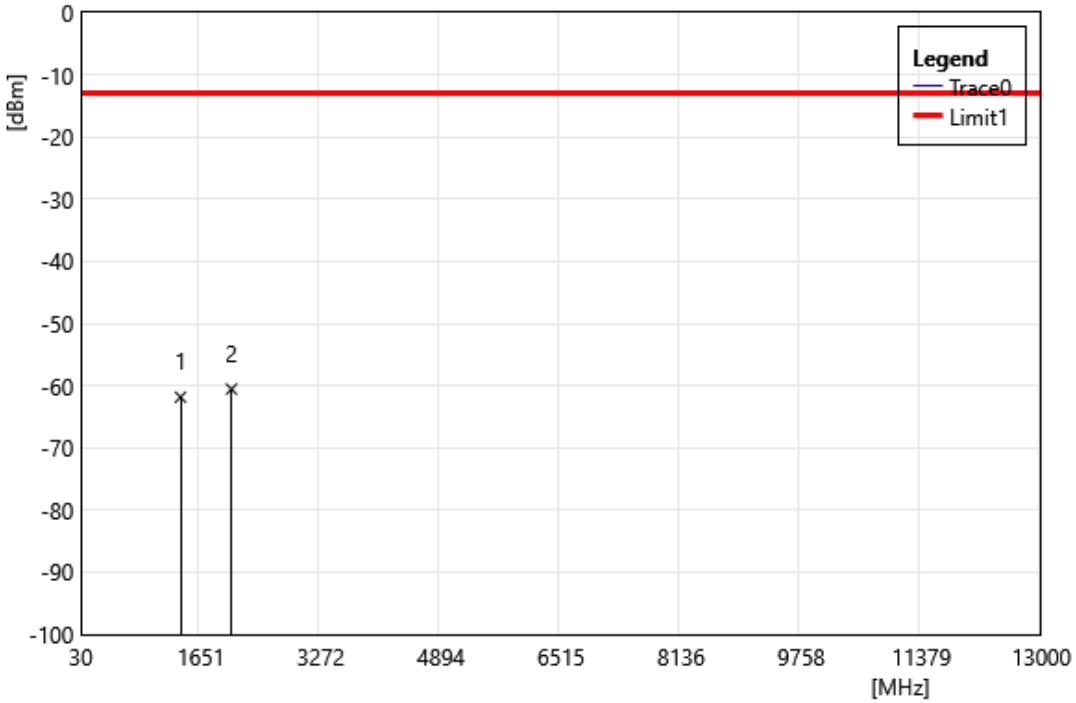
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1366.00	-62.12	0.55	-61.57	-13.00	-48.57	PEAK
2	2049.00	-64.16	2.62	-61.54	-13.00	-48.54	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	71_20MHz_QPSK_CH133372		
Polarization:	Vertical		
Remark:			



ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1376.00	-63.33	0.59	-62.74	-13.00	-49.74	PEAK
2	2064.00	-63.44	2.67	-60.77	-13.00	-47.77	PEAK

Test Site:	966 Chamber	Standard:	LTE
Test Mode:	4G_BAND		
	71_20MHz_QPSK_CH133372		
Polarization:	Horizontal		
Remark:			



ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1376.00	-62.44	0.59	-61.85	-13.00	-48.85	PEAK
2	2064.00	-63.21	2.67	-60.54	-13.00	-47.54	PEAK

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