RF Test Report

Applicant	:	PepperlFuchs SE
Product Name	:	Phone
Trade Name	:	PEPPERL+FUCHS
Model Number	:	Smart-Ex 03
Applicable Standard	:	FCC 47 CFR PART 22H FCC 47 CFR PART 24E FCC 47 CFR PART 27 FCC 47 CFR PART 90 FCC 47 CFR PART 90S FCC 47 CFR PART 90R ANSI C63.26 2015
Received Date	:	Apr. 20, 2023
Test Period	:	Jul. 24 ~ Nov. 24, 2023
Issued Date	:	Nov. 28, 2023

Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.
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Taoyuan City 334025, Taiwan (R.O.C.)
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Taiwan Accreditation Foundation accreditation number: 1330
Frequency Range: 9 kHz to 325 GHz (Bade test site)
Test Firm Registration Number: 226252 (Bade test site)
Test Firm Registration Number: 191812 (Wugu test site)

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	Nov. 28, 2023	Initial Issue	Snow Wang

Verification of Compliance

Applicant	:	PepperlFuchs SE
Product Name	:	Phone
Trade Name	:	PEPPERL+FUCHS
Model Number	:	Smart-Ex 03
FCC ID	:	2AXZAS03GR01
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
Performing Lab.	:	Eurofins E&E Wireless Taiwan Co., Ltd. No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan (R.O.C.) Tel：+886-3-2710188 / Fax：+886-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330

Testing Laboratory 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) §96.41(b)	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 §96.41(g)	Peak to average ratio	Pass
§2.1051 §22.917 §24.238 §27.53 §90.543 (Part 90R) §90.691 (Part 90S) §96.41(e)	Band Edge	Pass
§2.1051 §22.917 §24.238 §27.53 §90.543 (Part 90R) §90.691 (Part 90S) §96.41(e)	Conducted Spurious Emissions	Pass
§2.1053 §22.917 §24.238 §27.53 §90.543 (Part 90R) §90.691 (Part 90S) §96.41(e)	Radiated Spurious Emissions	Pass
§96.47	End user device additional requirements.	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 334025, 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	1.4×10^{-7} x fc (Hz)	2.0×10^{-7} x fc (Hz)
Emission Bandwidth & Occupied Bandwidth	4.5 %	4.5 %
Peak to Average 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
Radiated Emission	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

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

Test Setting Condition		
L.V.	Low Voltage	AC 102 V
N.V.	Normal Voltage	AC 120 V
H.V.	High Voltage	AC 138 V
L.T.	Low Temperature	-20 °C
N.T.	Normal Temperature	+25 °C
H.T.	High Temperature	+60 °C

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.

Applicant	PepperlFuchs SE Lilienthalstrasse 200, Mannheim Germany
Product Name	Phone
Trade Name	PEPPERL+FUCHS
Model Number	Smart-Ex 03
Variants Description	Smart-Ex 03 is provided to the end user in two variants, one with camera features and the other as a non-camera variant. The camera modules are also populated in the non-camera variant; only SW deactivation and assembling physical camera opening covers, which are not metal, are required. Therefore, the testing was completed on the DUT with the camera features only.
FCC ID	2AXZAS03GR01
Operate Temp. Range	-20 ~ +60 ℃
EUT Power Rating	3.70 Vdc, 4400 mAh

5G NR				
Operation Band (NR):	☒ n2	☒ n5	☒ n7	☒ n12
	☒ n13	☒ n14	☒ n25	☐ n26
	☒ n30	☒ n38	☒ n41	☒ n48
	☒ n66	☐ n70	☒ n71	☒ n77
	☒ n78			
Support type:	☒ Standalone	☒ EN-DC		
	☐ CA-UL	☒ CA-DL	☒ MIMO-UL	
Modulation type:	☒ DFT-s-OFDM	PI/2-BPSK, QPSK, 16QAM, 64QAM, 256QAM		
	☒ CP-OFDM	QPSK, 16QAM, 64QAM, 256QAM		
Power Class:	☒ Class 3	☒ Class 2 (n78,)		☐ Class 1.5 (n41)
Note: 1. Detail Power information shall refer to power table.				

EN-DC Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations
LTE Anchor Bands for NR n2	LTE Band 4, 30, 48, 66
LTE Anchor Bands for NR n5	LTE Band 2, 7, 12, 30, 48, 66
LTE Anchor Bands for NR n7	LTE Band 71
LTE Anchor Bands for NR n12	LTE Band 2, 7, 30, 48, 66
LTE Anchor Bands for NR n14	LTE Band 2, 66
LTE Anchor Bands for NR n25	LTE Band 5, 13, 26, 48, 66, 71
LTE Anchor Bands for NR n30	LTE Band 2, 66
LTE Anchor Bands for NR n38	LTE Band 2, 4, 66
LTE Anchor Bands for NR n41	LTE Band 2, 4, 5, 25, 26, 40, 66
LTE Anchor Bands for NR n48	LTE Band 2, 66
LTE Anchor Bands for NR n66	LTE Band 2, 30, 48
LTE Anchor Bands for NR n71	LTE Band 2, 7, 41, 48, 66
LTE Anchor Bands for NR n77	LTE Band 2, 7, 30, 40, 41, 66, 71
LTE Anchor Bands for NR n78	LTE Band 2, 4, 7, 13, 38, 40, 41, 66

NR n2	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
5	-	-	0.368	-	-	0.293
10	-	-	0.363	-	-	0.287
15	-	-	0.371	-	-	0.290
20	-	-	0.372	-	-	0.295

NR n5	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
5	4.4840	4M48G7D	0.183	4.4777	4M47W7D	0.141
10	9.2729	9M27G7D	0.184	9.2979	9M30W7D	0.144
15	14.0710	14M1G7D	0.183	14.0640	14M1W7D	0.143
20	18.8690	18M9G7D	0.184	18.8410	18M8W7D	0.141

NR n7	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
5	4.4867	4M49G7D	0.219	4.4687	4M47W7D	0.180
10	9.2596	9M26G7D	0.222	9.2919	9M29W7D	0.179
15	14.0820	14M1G7D	0.221	14.0730	14M1W7D	0.180
20	18.9380	18M9G7D	0.223	18.8860	18M9W7D	0.179

NR n12	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
5	4.4708	4M47G7D	0.165	4.4807	4M48W7D	0.131
10	9.2612	9M26G7D	0.166	9.3575	9M36W7D	0.130
15	14.0720	14M1G7D	0.169	14.0580	14M1W7D	0.133

NR n13	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
5	4.4782	4M48G7D	0.166	4.4697	4M47W7D	0.127
10	9.2405	9M24G7D	0.167	9.2623	9M26W7D	0.135

NR n14	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
5	4.4798	4M48G7D	0.244	4.4809	4M48W7D	0.197
10	9.2726	9M27G7D	0.197	9.3004	9M30W7D	0.195

NR n25	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
5	4.4754	4M48G7D	0.367	4.4795	4M48W7D	0.295
10	9.2754	9M28G7D	0.366	9.2978	9M30W7D	0.289
15	14.1020	14M1G7D	0.367	14.0780	14M1W7D	0.294
20	18.9260	18M9G7D	0.372	18.9290	18M9W7D	0.293

NR n30	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
5	4.4979	4M50G7D	0.274	4.5003	4M50W7D	0.218
10	9.3619	9M36G7D	0.288	9.3790	9M38W7D	0.226

NR n38	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
20	18.2010	18M2G7D	0.221	18.2370	18M2W7D	0.175
30	27.8410	27M8G7D	0.226	27.8480	27M9W7D	0.178
40	37.8590	37M9G7D	0.229	37.8620	37M9W7D	0.179

NR n41	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
20	18.2020	18M2G7D	0.286	18.2130	18M2W7D	0.217
30	27.8370	27M8G7D	0.286	27.8550	27M9W7D	0.217
40	37.8320	37M8G7D	0.284	37.7940	37M8W7D	0.219
50	47.4970	47M5G7D	0.286	47.4840	47M5W7D	0.215
60	57.9130	57M9G7D	0.281	57.8250	57M8W7D	0.211
70	67.4810	67M5G7D	0.284	67.4760	67M5W7D	0.213
80	77.4010	77M4G7D	0.281	77.4640	77M5W7D	0.206
90	87.4770	87M5G7D	0.285	87.3250	87M3W7D	0.210
100	97.3810	97M4G7D	0.287	97.3900	97M4W7D	0.213

NR n48	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
10	8.5860	8M59G7D	0.136	8.5752	8M58W7D	0.134
20	18.1860	18M2G7D	0.142	18.1790	18M2W7D	0.142
40	37.7750	37M8G7D	0.143	37.7760	37M8W7D	0.142

NR n66	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
5	4.5035	4M50G7D	0.258	4.5026	4M50W7D	0.209
10	9.3593	9M36G7D	0.257	9.3662	9M37W7D	0.209
15	14.1510	14M2G7D	0.262	14.1610	14M2W7D	0.205
20	18.9960	19M0G7D	0.263	18.9450	19M0W7D	0.209

NR n71	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
5	4.5025	4M50G7D	0.133	4.5057	4M50W7D	0.107
10	9.3559	9M36G7D	0.133	9.3518	9M36W7D	0.105
15	14.0980	14M1G7D	0.133	14.1370	14M1W7D	0.106
20	18.9290	18M9G7D	0.134	18.8620	18M9W7D	0.107

NR n77 (3700-3980)	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
20	18.1820	18M2G7D	0.439	18.2120	18M2W7D	0.338
30	27.8180	27M8G7D	0.441	27.7870	27M8W7D	0.338
40	37.8000	37M8G7D	0.443	37.8240	37M8W7D	0.339
60	57.8280	57M8G7D	0.438	57.7780	57M8W7D	0.337
80	77.4130	77M4G7D	0.442	77.4070	77M4W7D	0.338
90	87.3900	87M4G7D	0.443	87.4630	87M5W7D	0.339
100	97.4440	97M4G7D	0.443	97.4650	97M5W7D	0.339

NR n77 (3450-3550)	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
20	18.1790	18M2G7D	0.279	18.2010	18M2W7D	0.232
30	27.8260	27M8G7D	0.278	27.8140	27M8W7D	0.236
40	37.7910	37M8G7D	0.278	37.8120	37M8W7D	0.236
60	57.7680	57M8G7D	0.281	57.7750	57M8W7D	0.236
80	77.3830	77M4G7D	0.279	77.4160	77M4W7D	0.232
90	87.4440	87M4G7D	0.281	87.4140	87M4W7D	0.231
100	97.3770	97M4G7D	0.288	97.3990	97M4W7D	0.231

NR n78 PC2 (3700-3800)	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
20	---	---	0.488	---	---	0.453
30	---	---	0.455	---	---	0.415
40	---	---	0.453	---	---	0.412
50	---	---	0.486	---	---	0.421
60	---	---	0.486	---	---	0.379
70	---	---	0.465	---	---	0.363
80	---	---	0.469	---	---	0.361
100	---	---	0.541	---	---	0.472

NR n78 PC2 (3450-3550)	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
20	---	---	0.502	---	---	0.499
30	---	---	0.498	---	---	0.499
40	---	---	0.500	---	---	0.500
50	---	---	0.499	---	---	0.499
60	---	---	0.497	---	---	0.506
70	---	---	0.508	---	---	0.499
80	---	---	0.505	---	---	0.500
100	---	---	0.536	---	---	0.494

UL MIMO

NR n41	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
20	18.1820	18M2G7D	0.582	18.2320	18M2W7D	0.441
30	27.8350	27M8G7D	0.583	27.7980	27M8W7D	0.444
40	37.8340	37M8G7D	0.583	37.8100	37M8W7D	0.441
50	47.4870	47M5G7D	0.580	47.4600	47M5W7D	0.443
60	57.8400	57M8G7D	0.582	57.8460	57M8W7D	0.444
70	67.5010	67M5G7D	0.582	67.4450	67M4W7D	0.443
80	77.4590	77M5G7D	0.580	77.3920	77M4W7D	0.442
90	87.4200	87M4G7D	0.581	87.4780	87M5W7D	0.443
100	97.3260	97M3G7D	0.584	97.2760	97M3W7D	0.442

NR n48	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
10	8.5921	8M59G7D	0.177	8.5699	8M57W7D	0.160
20	18.2120	18M2G7D	0.176	18.2020	18M2W7D	0.160
40	37.8350	37M8G7D	0.186	37.8490	37M8W7D	0.163

NR n77 (3700-3980)	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
20	18.1520	18M2G7D	0.830	18.1660	18M2W7D	0.686
30	27.8240	27M8G7D	0.824	27.8110	27M8W7D	0.683
40	37.8020	37M8G7D	0.825	37.8880	37M9W7D	0.683
60	57.8310	57M8G7D	0.825	57.8560	57M9W7D	0.683
80	77.3970	77M4G7D	0.821	77.5170	77M5W7D	0.685
90	87.0530	87M1G7D	0.825	87.4580	87M5W7D	0.683
100	97.5350	97M5G7D	0.844	97.4290	97M4W7D	0.683

NR n77 (3450-3550)	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
20	18.1670	18M2G7D	0.824	18.2270	18M2W7D	0.685
30	27.8140	27M8G7D	0.822	27.8360	27M8W7D	0.686
40	37.8150	37M8G7D	0.824	37.8180	37M8W7D	0.683
60	57.8110	57M8G7D	0.823	57.7560	57M8W7D	0.684
80	77.3380	77M3G7D	0.824	77.2900	77M3W7D	0.686
90	87.3680	87M4G7D	0.824	87.4110	87M4W7D	0.683
100	97.3520	97M4G7D	0.842	97.3570	97M4W7D	0.685

NR n78 PC2 (3700-3800)	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
20	18.1950	18M2G7D	0.897	18.1980	18M2W7D	0.785
30	27.8460	27M8G7D	0.882	27.8220	27M8W7D	0.790
40	37.7770	37M8G7D	0.887	37.8690	37M9W7D	0.789
50	47.5410	47M5G7D	0.885	47.4950	47M5W7D	0.783
60	57.9310	57M9G7D	0.885	57.8340	57M8W7D	0.786
70	67.4500	67M5G7D	0.900	67.4530	67M5W7D	0.788
80	77.2640	77M3G7D	0.883	77.6240	77M6W7D	0.790
100	97.6600	97M7G7D	0.974	97.5810	97M6W7D	0.783

NR n78 PC2 (3450-3550)	PI2 BPSK / QPSK			16QAM / 64QAM / 256QAM		
BW(MHz)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)	Occupied Bandwidth (MHz)	Emission Desigator	Maximum ERP/EIRP(W)
20	18.1850	18M2G7D	0.906	18.2340	18M2W7D	0.786
30	27.8200	27M8G7D	0.884	27.8540	27M9W7D	0.789
40	37.8310	37M8G7D	0.885	37.8280	37M8W7D	0.788
50	47.3620	47M4G7D	0.884	47.3970	47M4W7D	0.786
60	57.8230	57M8G7D	0.884	57.8060	57M8W7D	0.789
70	67.4280	67M4G7D	0.901	67.4840	67M5W7D	0.788
80	77.3770	77M4G7D	0.883	77.4070	77M4W7D	0.790
100	97.3450	97M4G7D	0.978	97.2920	97M3W7D	0.785

2.1. Product Specification of Equipment Under Test

Antenna information		
Type	Max. Gain (dBi)	
PIFA Antennas (LDS technology)	600-700 MHz	-2.4
	700-800 MHz	-1.0
	800-900 MHz	-1.2
	1700-1800 MHz	0.5
	1800-1900 MHz	2.0
	1900-2000 MHz	-0.2
	2300 MHz	0.9
	2500-2700 MHz	-0.4
	3300-3800 MHz	2.5
	3800-4200 MHz	-2.9
	4200-5000 MHz	-4.2

Channel Bandwidth:

5G FR1 Bands																	
FCC																	
Bands	Support Power Class	Support Mode	Support / Non supportive	SCS (kHz)	Channel bandwidth (MHz)												
					5	10	15	20	25	30	40	50	60	70	80	90	100
n2	3	SA&NSA	Support	15	V	V	V	V	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n5	3	SA&NSA	Support	15	V	V	V	V	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n7	3	SA&NSA	Support	15	V	V	V	V	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n12	3	SA&NSA	Support	15	V	V	V	X	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n13	3	SA&NSA	Support	15	V	V	X	X	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n14	3	SA&NSA	Support	15	V	V	X	X	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n25	3	SA&NSA	Support	15	V	V	V	V	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n30	3	SA&NSA	Support	15	V	V	X	X	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n38	3	SA&NSA	Support	15	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	30	X	V	V	V	V	V	V	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n41	3	SA&NSA	N/A	15	X	X	X	X	X	X	X	X	X	X	X	X	X
			Support	30	X	V	V	V	X	V	V	V	V	V	V	V	V
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X

5G FR1 Bands																	
FCC																	
Bands	Support Power Class	Support Mode	Support / Non supportive	SCS (kHz)	Channel bandwidth (MHz)												
					5	10	15	20	25	30	40	50	60	70	80	90	100
n48	3	SA&NSA	N/A	15	X	X	X	X	X	X	X	X	X	X	X	X	X
			Support	30	X	V	V	V	X	V	V	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n66	3	SA&NSA	Support	15	V	V	V	V	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n71	3	SA&NSA	Support	15	V	V	V	V	X	X	X	X	X	X	X	X	X
			N/A	30	X	X	X	X	X	X	X	X	X	X	X	X	X
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n77	3	SA&NSA	N/A	15	X	X	X	X	X	X	X	X	X	X	X	X	X
			Support	30	X	X	X	V	X	V	V	X	V	X	V	V	V
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X
n78	2	SA&NSA	N/A	15	X	X	X	X	X	X	X	X	X	X	X	X	X
			Support	30	X	X	X	V	X	V	V	V	V	V	V	X	V
			N/A	60	X	X	X	X	X	X	X	X	X	X	X	X	X

2.2. Mode of Operation

Three channels had been tested for each channel bandwidth.

5G NR n2				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	370500	1852.5	371000	1855
Middle CH	376000	1880	376000	1880
High CH	381500	1907.5	381000	1905
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	371500	1857.5	372000	1860
Middle CH	376000	1880	376000	1880
High CH	380500	1902.5	380000	1900

5G NR n5				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	165300	826.5	165800	829
Middle CH	167300	836.5	167300	836.5
High CH	169300	846.5	168800	844
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	166300	831.5	166800	834
Middle CH	167300	836.5	167300	836.5
High CH	168300	841.5	167800	839

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.

5G NR n7				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	500500	2502.5	501000	2505
Middle CH	507000	2535	507000	2535
High CH	513500	2567.5	513000	2565
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	501500	2507.5	502000	2510
Middle CH	507000	2535	507000	2535
High CH	512500	2562.5	512000	2560

5G NR n12						
Channel Bandwidth	5 MHz		10 MHz		15 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	140300	701.5	140800	704	141300	706.5
Middle CH	141500	707.5	141500	707.5	141500	707.5
High CH	142700	713.5	142200	711	141700	708.5

5G NR n13				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	155900	779.5	---	---
Middle CH	156400	782	156400	782
High CH	156900	784.5	---	---

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.

5G NR n14				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	158100	790.5	---	---
Middle CH	158600	793	158600	793
High CH	159100	795.5	---	---

5G NR n25						
Channel Bandwidth	5 MHz		10 MHz		15 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	370500	1852.5	371000	1855	371500	1857.5
Middle CH	376500	1882.5	376500	1882.5	376500	1882.5
High CH	382500	1912.5	382000	1910	381500	1907.5
Channel Bandwidth	20 MHz		25 MHz		30 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	372000	1860	372500	1862.5	373000	1865
Middle CH	376500	1882.5	376500	1882.5	376500	1882.5
High CH	381000	1905	380500	1902.5	380000	1990
Channel Bandwidth	20 MHz		---		---	
	Channel	Frequency (MHz)	---	---	---	---
Low CH	372000	1860	---	---	---	---
Middle CH	376500	1882.5	---	---	---	---
High CH	381000	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.

5G NR n30				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	27685	2307.5	---	---
Middle CH	27710	2310	27710	2310
High CH	27735	2312.5	---	---

5G NR n38						
Channel Bandwidth	20 MHz		30 MHz		40 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	516000	2580	517000	2585	518000	2590
Middle CH	519000	2595	519000	2595	519000	2595
High CH	522000	2610	521000	2605	520000	2600

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.

5G NR n41						
Channel Bandwidth	20 MHz		30 MHz		40 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	501204	2506	502200	2511	503202	2516
Middle CH	518598	2593	518598	2593	518598	2593
High CH	535998	2680	534996	2675	534000	2670
Channel Bandwidth	50 MHz		60 MHz		70 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	504204	2521	505200	2526	506202	2531
Middle CH	518598	2593	518598	2593	518598	2593
High CH	532998	2665	531996	2660	531000	2655
Channel Bandwidth	80 MHz		90 MHz		100 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	507204	2536	508200	2541	509202	2546
Middle CH	518598	2593	518598	2593	518598	2593
High CH	529998	2650	528996	2645	528000	2640

5G NR n48						
Channel Bandwidth	10 MHz		20 MHz		40 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	515000	2575	516000	2580	518000	2590
Middle CH	519000	2595	519000	2595	519000	2595
High CH	523000	2615	522000	2610	520000	2600

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.

5G NR n66				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	342500	1712.5	343000	1715
Middle CH	349000	1745	349000	1745
High CH	355500	1777.5	355000	1775
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	343500	1717.5	344000	1720
Middle CH	349000	1745	349000	1745
High CH	354500	1772.5	354000	1770

5G NR n71				
Channel Bandwidth	5 MHz		10 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	133100	665.5	133600	668
Middle CH	136100	680.5	136100	680.5
High CH	139100	695.5	138600	693
Channel Bandwidth	15 MHz		20 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	134100	670.5	134600	673
Middle CH	136100	680.5	136100	680.5
High CH	138100	690.5	137600	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.

5G NR n77 (3450~3550 MHz)						
Channel Bandwidth	20 MHz		30 MHz		40 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	630668	3460.02	631002	3465.03	631335	3470.02
Middle CH	633334	3500.01	633334	3500.01	633334	3500.01
High CH	636000	3540	635666	3534.99	635333	3529.99
Channel Bandwidth	60 MHz		80 MHz		90 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	632002	3480.03	632668	3490.02	633002	3495.03
Middle CH	633334	3500.01	633334	3500.01	633334	3500.01
High CH	634666	3519.99	634000	3510	633666	3504.99
Channel Bandwidth	100 MHz		---		---	
	Channel	Frequency (MHz)	---	---	---	---
Low CH	---	---	---	---	---	---
Middle CH	633334	633334	---	---	---	---
High CH	---	---	---	---	---	---

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.

5G NR n77 (3700~3980 MHz)						
Channel Bandwidth	20 MHz		30 MHz		40 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	647334	3710	647667	3715	648000	3720
Middle CH	656000	3840	656000	3840	656000	3840
High CH	664666	3970	664333	3965	664000	3960
Channel Bandwidth	60 MHz		80 MHz		90 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	648667	3730	649334	3740	649667	3745.01
Middle CH	656000	3840	656000	3840	656000	3840
High CH	663333	3950	662666	3940	662333	3934.99
Channel Bandwidth	100 MHz		---		---	
	Channel	Frequency (MHz)	---	---	---	---
Low CH	650000	650000	---	---	---	---
Middle CH	656000	656000	---	---	---	---
High CH	662000	662000	---	---	---	---

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.

5G NR n78 (3450~3550 MHz)						
Channel Bandwidth	20 MHz		30 MHz		40 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	630668	3460	631002	3465	631335	3470
Middle CH	633334	3500.01	633334	3500.01	633334	3500.01
High CH	636000	3540	635666	3535	635333	3530
Channel Bandwidth	50 MHz		60 MHz		70 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	631668	3475	632002	3480	632336	3485
Middle CH	633334	3500.01	633334	3500.01	633334	3500.01
High CH	635000	3525	634666	3520	634332	3515
Channel Bandwidth	80 MHz		100 MHz		---	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	---	---
Low CH	632668	3490	---	---	---	---
Middle CH	633334	3500.01	633334	3500.01	---	---
High CH	634000	3510	---	---	---	---

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.

5G NR n78 (3700~3800 MHz)						
Channel Bandwidth	20 MHz		30 MHz		40 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	647334	3710.01	647668	3715.02	648000	3720
Middle CH	650000	3750	650000	3750	650000	3750
High CH	652666	3789.99	652332	3784.98	652000	3780
Channel Bandwidth	50 MHz		60 MHz		70 MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	648334	3725.01	648668	3730.02	649000	3735
Middle CH	650000	3840	650000	3750	656000	3840
High CH	651666	3774.99	651332	3769.98	663000	3945
Channel Bandwidth	80 MHz		100 MHz		---	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	---	---
Low CH	649334	3740.01	---	---	---	---
Middle CH	650000	3750	650000	3500.01	---	---
High CH	650666	3759.99	---	---	---	---

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

Test Item	NR Band	bandwidth (MHz)													Modulation					RB Config.			Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	50 %	100 %	L	M	H
Max. output Power	n2	V	V	V	V	X	X	X	X	X	X	X	X	X	v	v	v	v	v	v	v	v	v	v	v
	n5	V	V	V	V	X	X	X	X	X	X	X	X	X	v	v	v	v	v	v	v	v	v	v	v
	n7	V	V	V	V	X	X	X	X	X	X	X	X	X	v	v	v	v	v	v	v	v	v	v	v
	n12	V	V	V	X	X	X	X	X	X	X	X	X	X	v	v	v	v	v	v	v	v	v	v	v
	n13	V	V	X	X	X	X	X	X	X	X	X	X	X	v	v	v	v	v	v	v	v	v	v	v
	n14	V	V	X	X	X	X	X	X	X	X	X	X	X	v	v	v	v	v	v	v	v	v	v	v
	n25	V	V	V	V	X	X	X	X	X	X	X	X	X	v	v	v	v	v	v	v	v	v	v	v
	n30	V	V	X	X	X	X	X	X	X	X	X	X	X	v	v	v	v	v	v	v	v	v	v	v
	n38	X	V	V	V	V	V	V	X	X	X	X	X	X	v	v	v	v	v	v	v	v	v	v	v
	n41	X	V	V	V	X	V	V	V	V	V	V	V	V	v	v	v	v	v	v	v	v	v	v	v
	n48	X	V	X	V	X	X	V	X	X	X	X	X	X	v	v	v	v	v	v	v	v	v	v	v
	n66	V	V	V	V	X	X	X	X	X	X	X	X	X	v	v	v	v	v	v	v	v	v	v	v
	n71	V	V	V	V	X	X	X	X	X	X	X	X	X	v	v	v	v	v	v	v	v	v	v	v
	n77	X	X	X	V	X	V	V	X	V	X	V	X	V	v	v	v	v	v	v	v	v	v	v	v
	n78	X	X	X	V	X	V	V	V	V	V	V	X	V	v	v	v	v	v	v	v	v	v	v	v
E.R.P / E.I.R.P	n2	V	V	V	V	X	X	X	X	X	X	X	X	X	Modulation of MAX. POWER					v	v	v	v	v	v
	n5	V	V	V	V	X	X	X	X	X	X	X	X	X						v	v	v	v	v	v
	n7	V	V	V	V	X	X	X	X	X	X	X	X	X						v	v	v	v	v	v
	n12	V	V	V	X	X	X	X	X	X	X	X	X	X						v	v	v	v	v	v
	n13	V	V	X	X	X	X	X	X	X	X	X	X	X						v	v	v	v	v	v
	n14	V	V	X	X	X	X	X	X	X	X	X	X	X						v	v	v	v	v	v
	n25	V	V	V	V	X	X	X	X	X	X	X	X	X						v	v	v	v	v	v
	n30	V	V	X	X	X	X	X	X	X	X	X	X	X						v	v	v	v	v	v
	n38	X	X	X	V	X	V	V	X	X	X	X	X	X						v	v	v	v	v	v
	n41	X	X	X	V	X	V	V	V	V	V	V	V	V						v	v	v	v	v	v
	n48	X	V	X	V	X	X	V	X	X	X	X	X	X						v	v	v	v	v	v
	n66	V	V	V	V	X	X	X	X	X	X	X	X	X						v	v	v	v	v	v
	n71	V	V	V	V	X	X	X	X	X	X	X	X	X						v	v	v	v	v	v
	n77	X	X	X	V	X	V	V	X	V	X	V	V	V						v	v	v	v	v	v
	n78	X	X	X	V	X	V	V	V	V	V	V	X	V						v	v	v	v	v	v

Test Item	NR Band	bandwidth (MHz)													Modulation					RB Config.			Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	50 %	100 %	L	M	H
Peak-to-Average-Ratio	n5	MAX Bandwidth													-	v	v	-	-	-	-	v	-	v	-
	n7														v	v	-	-	-	v	-	v	v	v	v
	n12														v	v	-	-	-	v	-	v	v	v	v
	n13														v	v	-	-	-	v	-	v	v	v	v
	n14														v	v	-	-	-	v	-	v	v	v	v
	n25														v	v	-	-	-	v	-	v	v	v	v
	n30														v	v	-	-	-	v	-	v	v	v	v
	n38														v	v	-	-	-	v	-	v	v	v	v
	n41														v	v	-	-	-	v	-	v	v	v	v
	n48														v	v	-	-	-	v	-	v	v	v	v
	n66														v	v	-	-	-	v	-	v	v	v	v
	n71														v	v	-	-	-	v	-	v	v	v	v
	n77														v	v	-	-	-	v	-	v	v	v	v
26dB and 99% Bandwidth	n5	V	V	V	V	X	X	X	X	X	X	X	X	X	-	v	v	-	-	-	-	v	-	v	-
	n7	V	V	V	V	X	X	X	X	X	X	X	X	X	-	v	v	-	-	-	-	v	-	v	-
	n12	V	V	V	X	X	X	X	X	X	X	X	X	X	-	v	v	-	-	-	-	v	-	v	-
	n13	V	V	X	X	X	X	X	X	X	X	X	X	X	-	v	v	-	-	-	-	v	-	v	-
	n14	V	V	X	X	X	X	X	X	X	X	X	X	X	-	v	v	-	-	-	-	v	-	v	-
	n25	V	V	V	V	X	X	X	X	X	X	X	X	X	-	v	v	-	-	-	-	v	-	v	-
	n30	V	V	X	X	X	X	X	X	X	X	X	X	X	-	v	v	-	-	-	-	v	-	v	-
	n38	X	X	X	V	X	V	V	X	X	X	X	X	X	-	v	v	-	-	-	-	v	-	v	-
	n41	X	X	X	V	X	V	V	V	V	V	V	V	V	-	v	v	-	-	-	-	v	-	v	-
	n48	X	V	X	V	X	X	V	X	X	X	X	X	X	-	v	v	-	-	-	-	v	-	v	-
	n66	V	V	V	V	X	X	X	X	X	X	X	X	X	-	v	v	-	-	-	-	v	-	v	-
	n71	V	V	V	V	X	X	X	X	X	X	X	X	X	-	v	v	-	-	-	-	v	-	v	-
	n77	X	X	X	V	X	V	V	X	V	X	V	V	V	-	v	v	-	-	-	-	v	-	v	-

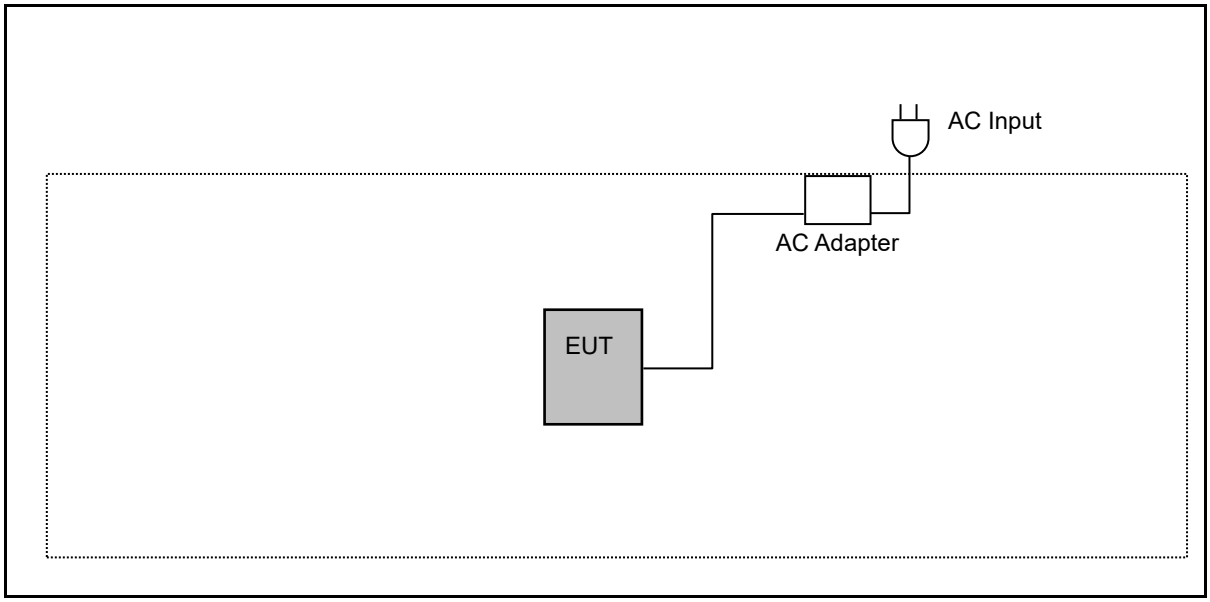
Test Item	NR Band	bandwidth (MHz)													Modulation					RB Config.			Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	50 %	100 %	L	M	H
Conducted Band Edge	n5	V	V	V	V	X	X	X	X	X	X	X	X	X	Modulation of MAX. POWER					v	-	v	v	-	v
	n7	V	V	V	V	X	X	X	X	X	X	X	X	X						v	-	v	v	-	v
	n12	V	V	V	X	X	X	X	X	X	X	X	X	X						v	-	v	v	-	v
	n13	V	V	X	X	X	X	X	X	X	X	X	X	X						v	-	v	v	-	v
	n14	V	V	X	X	X	X	X	X	X	X	X	X	X						v	-	v	v	-	v
	n25	V	V	V	V	X	X	X	X	X	X	X	X	X						v	-	v	v	-	v
	n30	V	V	X	X	X	X	X	X	X	X	X	X	X						v	-	v	v	-	v
	n38	X	X	X	V	X	V	V	X	X	X	X	X	X						v	-	v	v	-	v
	n41	X	X	X	V	X	X	X	X	V	X	X	X	V						v	-	v	v	-	v
	n48	X	V	X	V	X	X	V	X	X	X	X	X	X						v	-	v	v	-	v
	n66	V	V	V	V	X	X	X	X	X	X	X	X	X						v	-	v	v	-	v
	n71	V	V	V	V	X	X	X	X	X	X	X	X	X						v	-	v	v	-	v
	n77	X	X	X	V	X	X	X	X	V	X	X	X	V						v	-	v	v	-	v
Conducted Spurious Emission	n5	Bandwidth and Modulation of MAX. POWER																		v	-	-	v	v	v
	n7																			v	-	-	v	v	v
	n12																			v	-	-	v	v	v
	n13																			v	-	-	v	v	v
	n14																			v	-	-	v	v	v
	n25																			v	-	-	v	v	v
	n30																			v	-	-	v	v	v
	n38																			v	-	-	v	v	v
	n41																			v	-	-	v	v	v
	n48																			v	-	-	v	v	v
	n66																			v	-	-	v	v	v
	n71																			v	-	-	v	v	v
	n77																			v	-	-	v	v	v

Test Item	NR Band	bandwidth (MHz)													Modulation					RB Config.			Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	50 %	100 %	L	M	H
Frequency Stability Radiated Spurious Emission	n5	MAX Bandwidth													-	v	-	-	-	-	-	v	-	v	-
	n7														-	v	-	-	-	-	-	v	-	v	-
	n12														-	v	-	-	-	-	-	v	-	v	-
	n13														-	v	-	-	-	-	-	v	-	v	-
	n14														-	v	-	-	-	-	-	v	-	v	-
	n25														-	v	-	-	-	-	-	v	-	v	-
	n30														-	v	-	-	-	-	-	v	-	v	-
	n38														-	v	-	-	-	-	-	v	-	v	-
	n41														-	v	-	-	-	-	-	v	-	v	-
	n48														-	v	-	-	-	-	-	v	-	v	-
	n66														-	v	-	-	-	-	-	v	-	v	-
	n71														-	v	-	-	-	-	-	v	-	v	-
	n77														-	v	-	-	-	-	-	v	-	v	-
Radiation Spurious Emission	n5	Bandwidth and Modulation of MAX. POWER																		v	-	-	v	v	v
	n7																			v	-	-	v	v	v
	n12																			v	-	-	v	v	v
	n13																			v	-	-	v	v	v
	n14																			v	-	-	v	v	v
	n25																			v	-	-	v	v	v
	n30																			v	-	-	v	v	v
	n38																			v	-	-	v	v	v
	n41																			v	-	-	v	v	v
	n48																			v	-	-	v	v	v
	n66																			v	-	-	v	v	v
	n71																			v	-	-	v	v	v
	n77																			v	-	-	v	v	v
Remark	1. n25 can cover n2 since operating frequency range of n2 within n25 and power setting are the same 2. N77 can cover n78 since operating frequency range of n78 within n77 and power setting are the same																								

2.3. 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.

2.4. Configuration of Test System Details



2.5. Test Instruments

For Conducted
Test Period: Jul. 24, 2023~ Nov. 02, 2023
Testing Engineer: Gavin Hu

Test Site		RF02-WG				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Radio Communication Test System	Anritsu	MT8000A	6272368745	Jan. 05, 2023	1 year
☒	Spectrum Analyzer	R&S	FSV3044	101416	Nov. 02, 2022 Oct. 30, 2023	1 year
☒	Power Supply	RIGOL	DP711	DP7A243601513	Nov. 21, 2022	1 year
☒	Spectrum Analyzer	Keysight	N9010B	MY63460164	Mar. 06, 2023	1 year

For Radiated Emissions
Test Period: Oct. 31 ~ Nov. 24, 2023
Testing Engineer: Jason Yeh

Radiation test sites		Semi Anechoic Room 96603-WG				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	LOOP Antenna (9 kHz~30 MHz)	Schwarzbeck Mess-Elektronik	FMZB 1513-60	00031	Feb. 21, 2023	1 year
☒	Trilog Broadband Antenna (30 MHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	1276	Feb. 09, 2023	1 year
☒	Broadband Horn Antenna (1 GHz~18 GHz)	RF SPIN	DRH18-E	210307A18ES	Dec. 22, 2022	1 year
☒	Broadband Horn Antenna (15 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	BBHA9170	1133	Feb. 13, 2023	1 year
☒	Spectrum Analyzer (2 Hz~50 GHz)	KEYSIGHT	N9030B	MY57153537	Apr. 18, 2023	1 year
☒	Pre-Amplifier	EMCI	EMC001330	980859	Dec. 01, 2022	1 year
☒	Pre-Amplifier	EMCI	EMC118A45SE	980818	Dec. 15, 2022	1 year
☒	Pre-Amplifier	EMCI	EMC184045SE	980861	Dec. 15, 2022	1 year

Note: N.C.R. = No Calibration Request

For Radiated Emissions
Test Period: Oct. 31 ~ Nov. 24, 2023
Testing Engineer: Jason Yeh

Radiation test sites		Semi Anechoic Room 96603-WG				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Coaxial Cable (10 kHz~3000 MHz)	EMCI	EMCCFD400-NM-NM-2000	211009	Dec. 28, 2022	1 year
☒	Coaxial Cable (10 kHz~3000 MHz)	EMCI	EMCCFD400-NM-NM-2000	211010	Dec. 28, 2022	1 year
☒	Coaxial Cable (10 kHz~3000 MHz)	EMCI	EMCCFD400-NM-NM-6000	211018	Dec. 28, 2022	1 year
☒	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM-1000	211029	Dec. 28, 2022	1 year
☒	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM-2000	211033	Dec. 28, 2022	1 year
☒	Coaxial Cable (1 GHz~18 GHz)	EMCI	EMC104-SM-SM-8000	211038	Dec. 28, 2022	1 year
☒	Coaxial Cable (18GHz~40GHz)	EMCI	EMC101G-KM-KM-600	211211	Jan. 17, 2023	1 year
☒	Coaxial Cable (18GHz~40GHz)	EMCI	EMC101G-KM-KM-2000	211210	Jan. 17, 2023	1 year
☒	Coaxial Cable (18GHz~40GHz)	EMCI	EMC101G-KM-KM-6000	211209	Jan. 17, 2023	1 year
☒	Highpass Filter	Warison	STI15-9796	001	Dec. 02, 2022	
☒	Highpass Filter	Warison	WFIL-H3000-20000F	WR4BBFWC2B1	Dec. 02, 2022	1 year
☒	Highpass Filter	Warison	WFIL-H6000-26500F	WR4BBFWC4B1	Dec. 02, 2022	1 year
☒	Wireless Test Platform	Keysight	UXM 5G	MY59020225	Feb. 28, 2023	1 year
☒	Software	R_RAM	V1.3	N/A	N.C.R.	---

Note: N.C.R. = No Calibration Request

3 Measurement Procedure

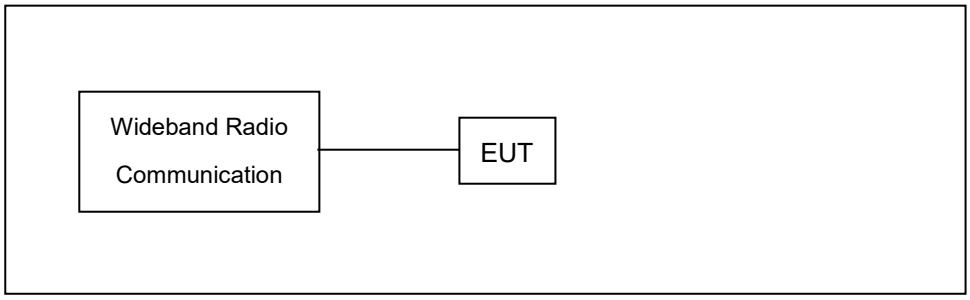
3.1. Conducted Output Average Power Test

■ **Limit**

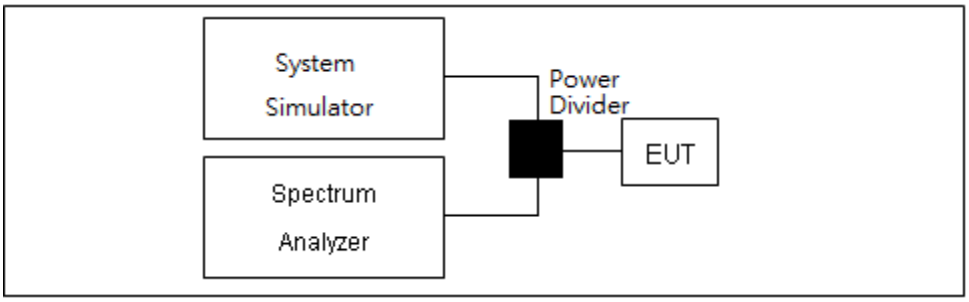
N/A

■ **Test Setup**

(For dBm/Channel BW)



(For dBm/10 MHz)



■ 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.

(For dBm/10 MHz)

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

b. Set instrument center frequency to OBW center frequency.

c. Set span to at least 1.5 times the OBW.

d. Set the RBW to the specified reference bandwidth (often 10 MHz).

e. Set VBW ≥ 3 × RBW.

f. Detector = RMS (power averaging).

g. Employ trace averaging (RMS) mode over a minimum of 100 traces.

h. Ensure that the number of measurement points in the sweep ≥ 2 × span/RBW.

i. Spectrum is configured to trigger a sweep at the beginning of each transmission burst.

j. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).

3.2. Effective Radiated Power / Equivalent Isotropic Radiated Power Test

■ Limit

For FCC Part 27: The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 1 Watts.

For FCC Part 27.50(b)(10): Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

For FCC Part 27.50(c)(10): Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP

For FCC Part 27.50(h)(2): Mobile stations are limited to 2.0 watts EIRP.

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

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

For FCC Part 27.50(h)(2): Mobile stations in BRS and EBS band are limited to 2 watts EIRP.

For FCC Part 90.635(b): ERP maximum power is 100 watts for mobile stations.

For FCC Part 90.542(7): Portable stations in the 758-768 MHz band and the 788-798 MHz are limited to 3 watts ERP

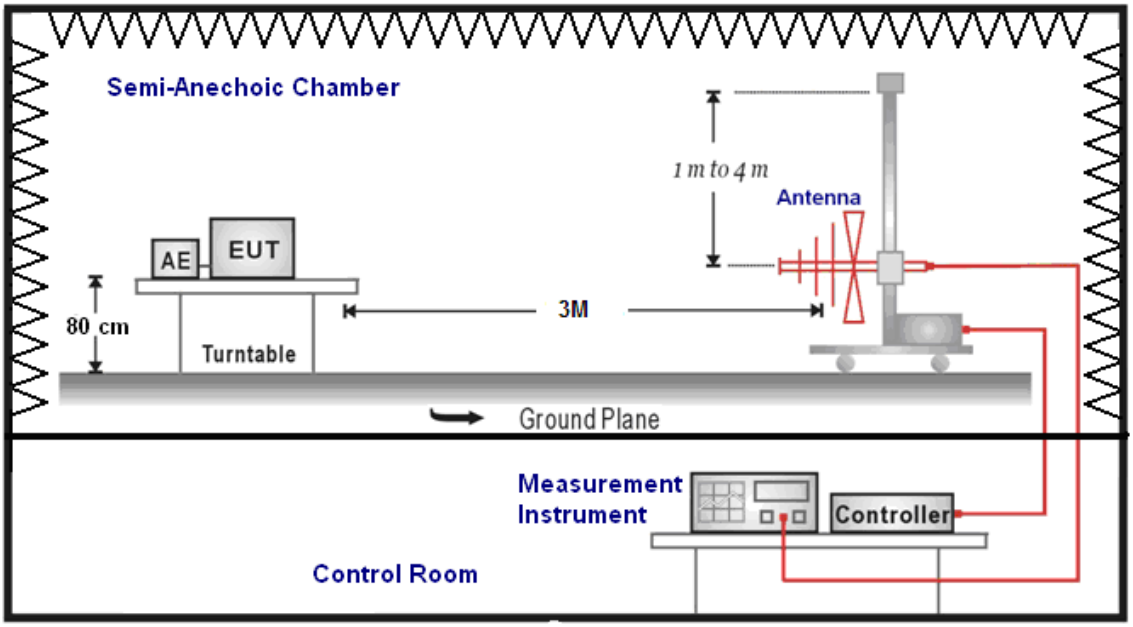
The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Partnership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth.

For mobile subscriber equipment, the e.i.r.p. shall not exceed 2 W. For fixed subscriber equipment, the transmitter output power shall not exceed 2 W and the e.i.r.p. shall be limited to 40 W.

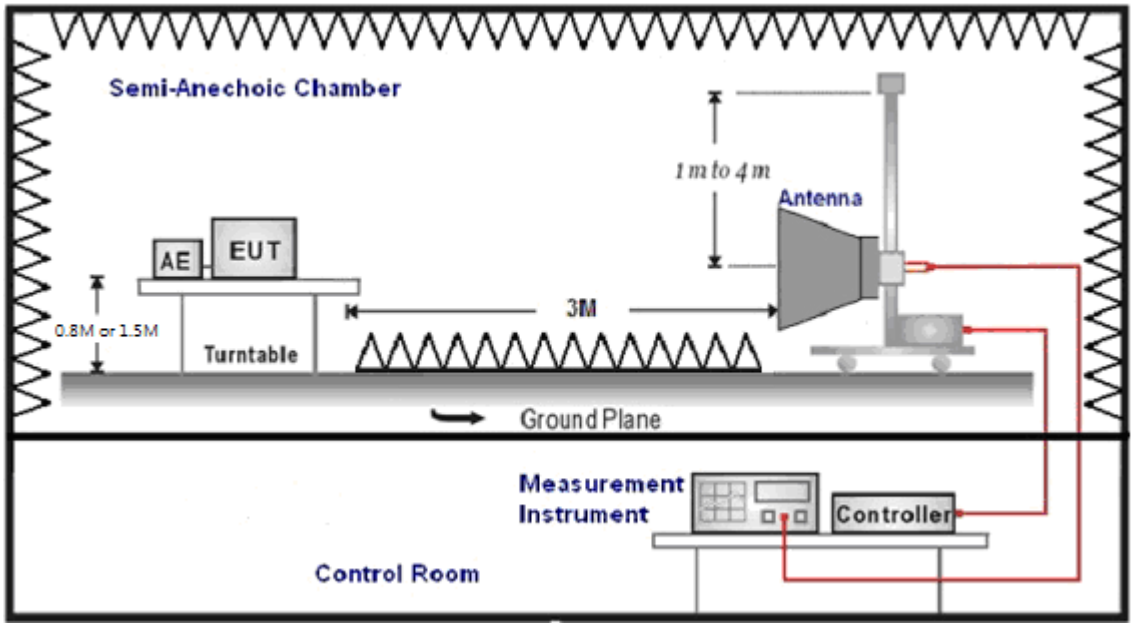
Device		Maximum EIRP (dBm/10 MHz)	Maximum PSD (EIRP) (dBm/MHz)
■	End User Device	23	N/A
□	Category A CBSD	30	20
□	Category B CBSD	47	37

■ Test Setup

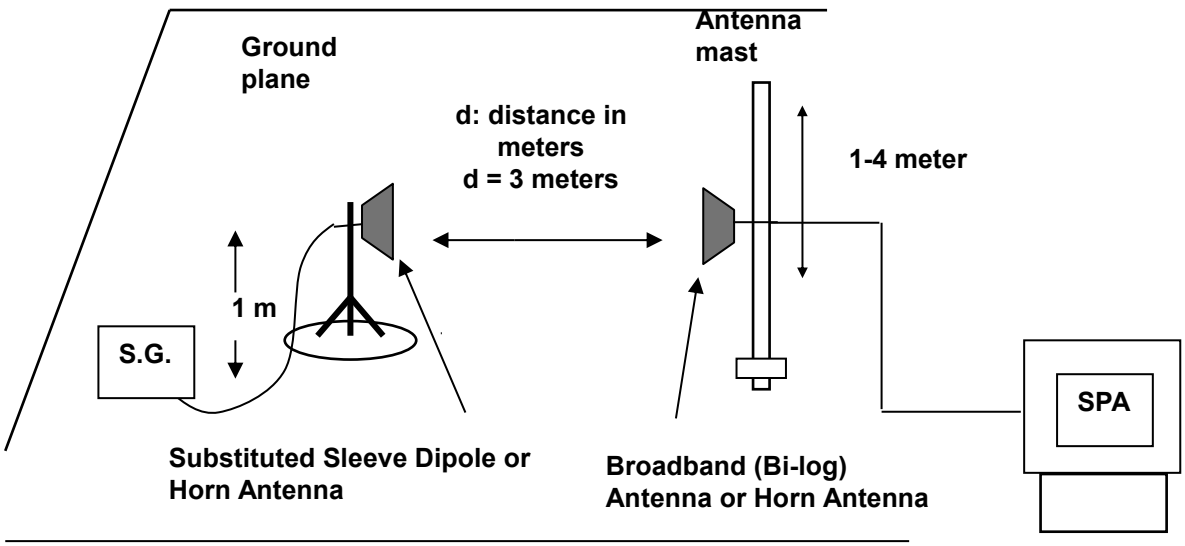
Below 1 GHz



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

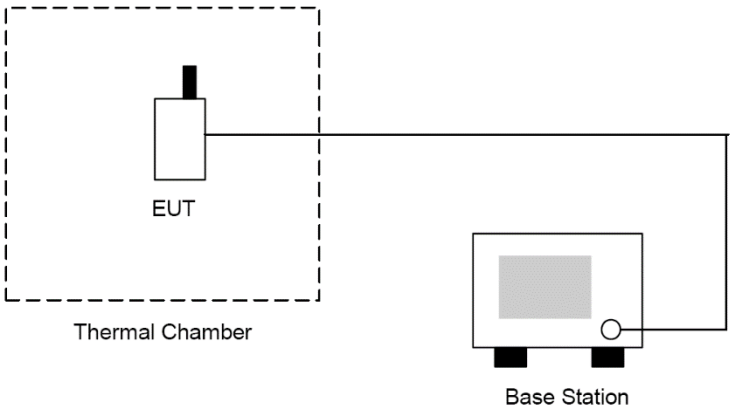
2. Above 1 GHz Substituted Method Test：Horn antenna to Horn Antenna

3.3. Frequency Stability Test

■ Limit

According to the FCC and IC 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) and Section 6.11 of RSS-Gen 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) and Section 6.11 of RSS-Gen -30 ℃ ~ 50 ℃.

■ 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.

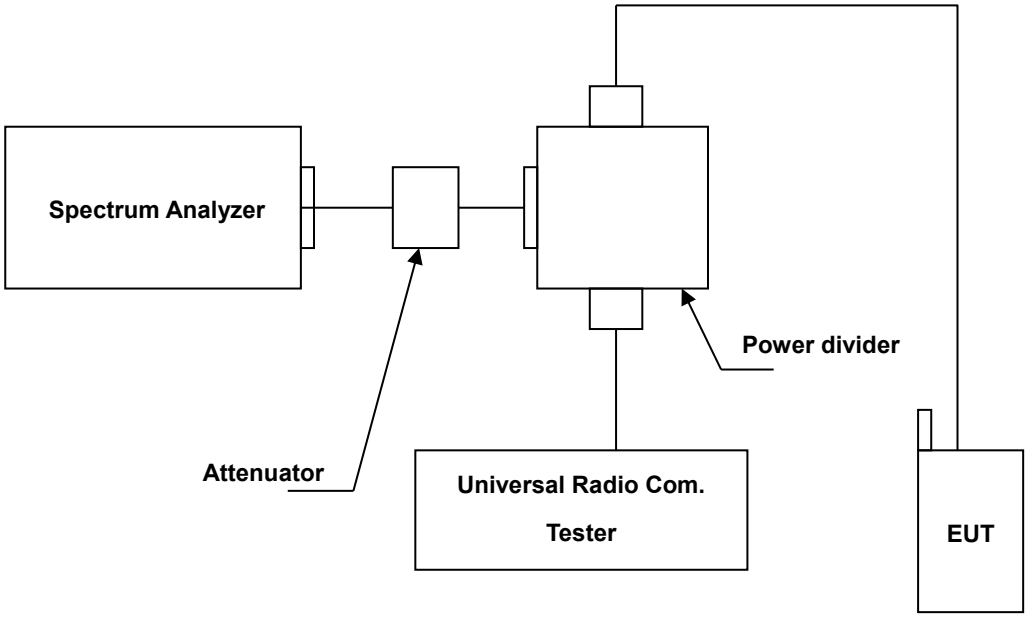
3.4. Emission Bandwidth & Occupied Bandwidth Test

■ 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.

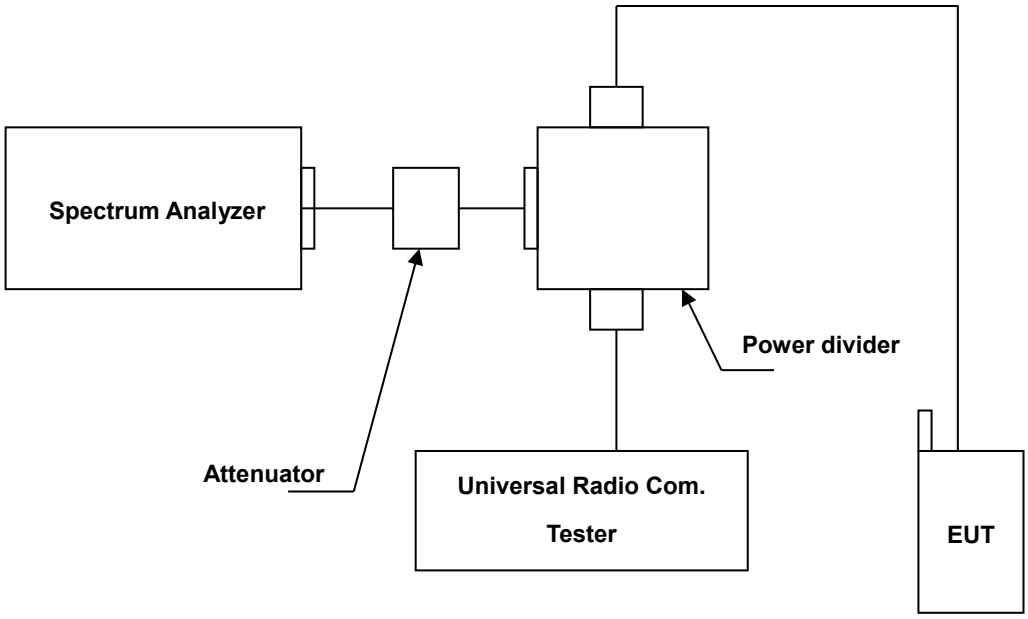
c. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % or 26 dB occupied bandwidth.

3.5. Peak to Average Ratio Test

■ Limit

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) 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:

NR n2, n5, n25, n66:

§22.917(a), §24.238(a) , §27.53(h)(1)

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.

NR n12, n71:

§27.53(g)

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

NR n7, n38, n41:

§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.

NR n14:

§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.

§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.

NR n30:

§27.53(a)(4)(i)

By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz.

§27.53(a)(4)(ii)

By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz.

§27.53(a)(4)(iii)

By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

NR n77 (3450~3550 MHz):

§27.53(n)(2)

For mobile operations in the 3450–3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

NR n77 (3700~3980 MHz):

§27.53(l)(2)

For mobile operations in the 3700–3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

NR n26(814~849 MHz)

§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.

5G NR n14_BW=5 M				
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 ~ 806	-51.865	-53.906	-35	PASS

5G NR n14_BW=10 M				
Frequency (MHz)	RBW=10 kHz Measurement (dBm)	RBW=6.25 kHz Measurement (dBm)	Limit -35d Bm/6.25 kHz	Result
769 ~ 775	-42.106	-44.147	-35	PASS
799 ~ 806	-41.867	-43.908	-35	PASS

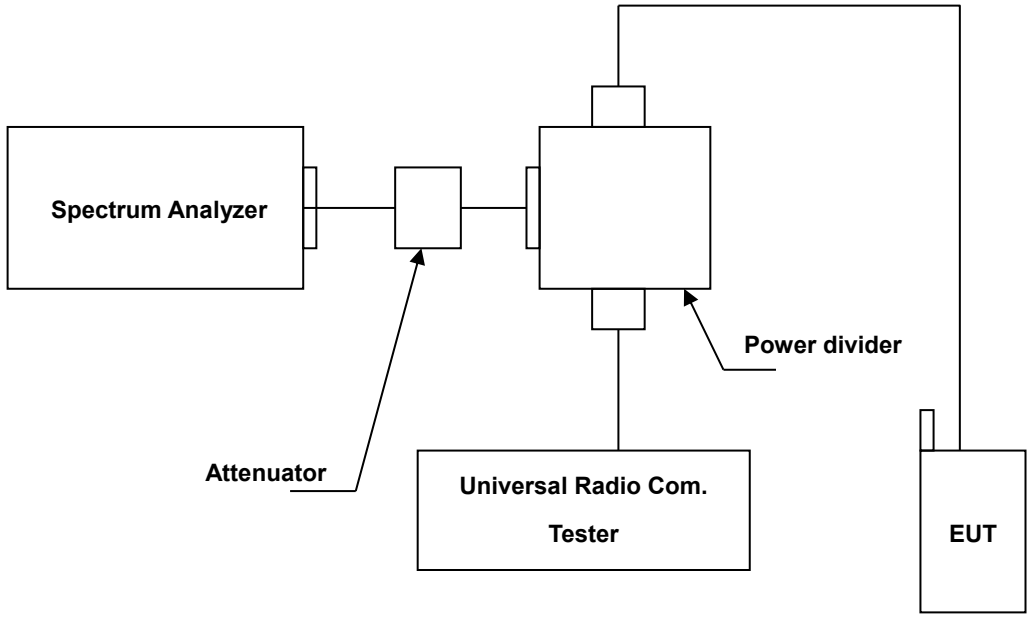
5G NR n13_BW=5 M				
Frequency (MHz)	RBW=10 kHz Measurement (dBm)	RBW=6.25 kHz Measurement (dBm)	Limit -35 dBm/6.25 kHz	Result
763 ~ 775	-39.670	-41.711	-35	PASS
793 ~ 805	-51.865	-53.906	-35	PASS

5G NR n13_BW=10 M				
Frequency (MHz)	RBW=10 kHz Measurement (dBm)	RBW=6.25 kHz Measurement (dBm)	Limit -35d Bm/6.25 kHz	Result
763 ~775	-42.106	-44.147	-35	PASS
793 ~805	-41.867	-43.908	-35	PASS

Device		Power of emission outside the fundamental	Limit (dBm/MHz)
■	End User Device	Within 0 MHz to B MHz above and below the assigned channel.	-13
		Greater than B MHz above and below the assigned channel. The conducted power of emissions below 3540 or above 3710 MHz.	-25
		The conducted power of emissions below 3530 or above 3720 MHz.	-40
		The Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.	
□ □	Category A CBSD Category B CBSD	Within 0 MHz to 10 MHz above and below the assigned channel.	-13
		Greater than 10 MHz above and below the assigned channel. The conducted power of emissions below 3540 or above 3710 MHz.	-25
		The conducted power of emissions below 3530 or above 3720 MHz.	-40

Note: Where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device.

■ 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.

For ACLR:

a. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.

b. The measured ACLR ratio shall be at least 30 dB.

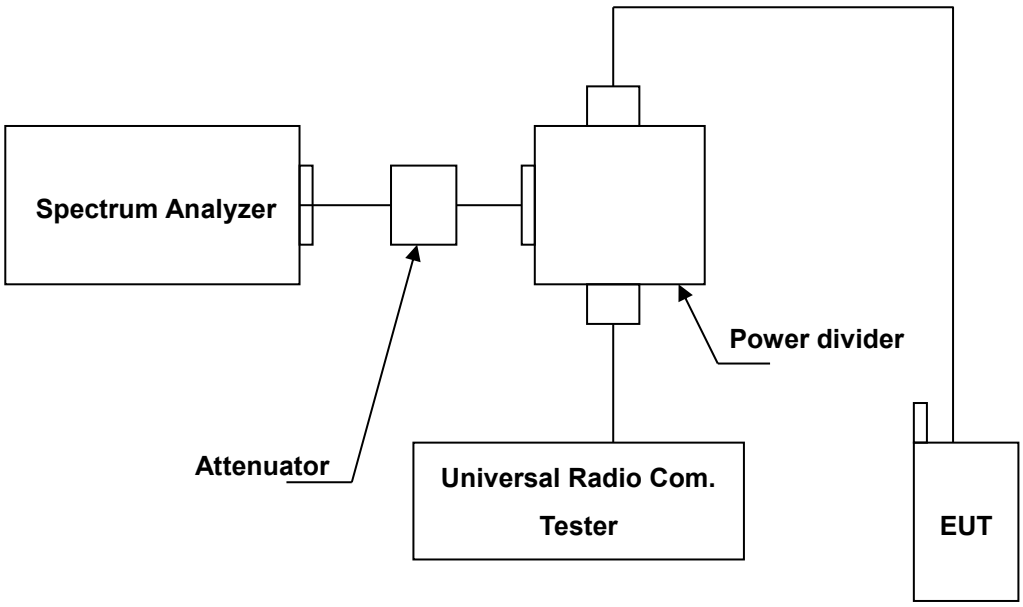
3.7. Conducted Spurious Emission Test

■ Limit

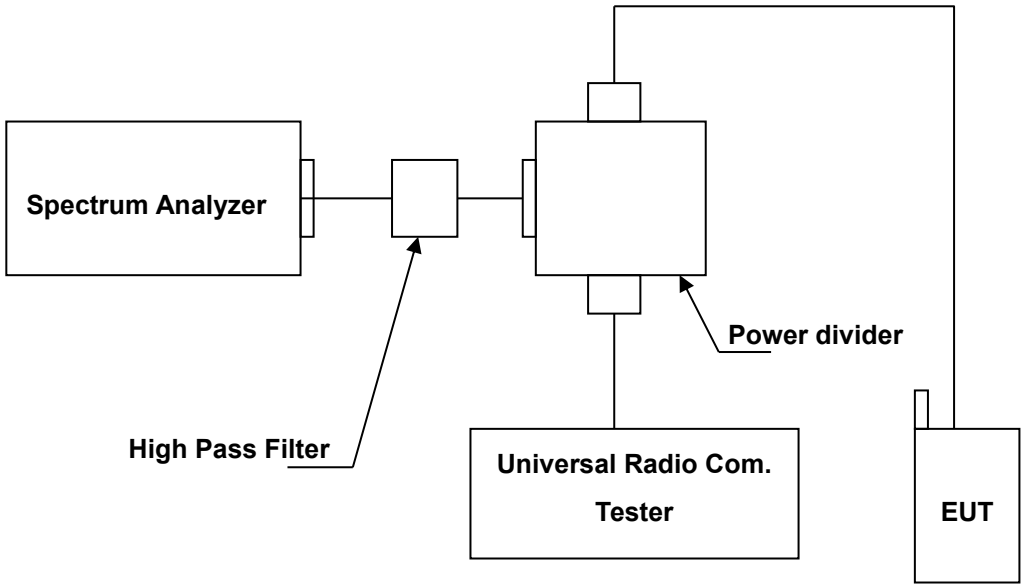
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 $\log_{10}$(P) dB. The limit of emission equal to -13 dBm

■ 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

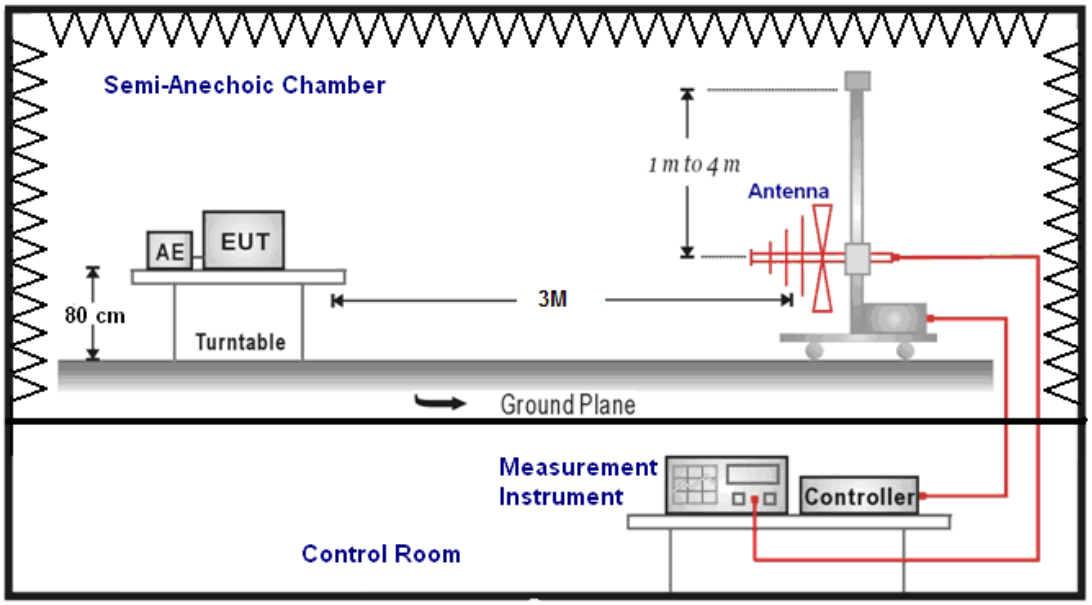
■ Limit

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

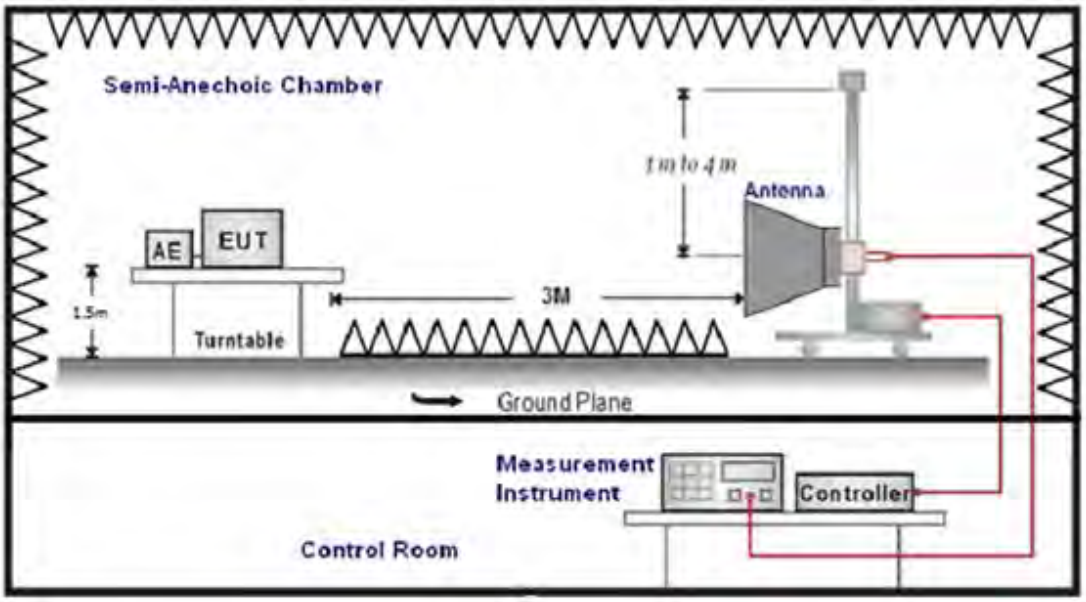
The conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40 dBm/MHz.

■ Setup

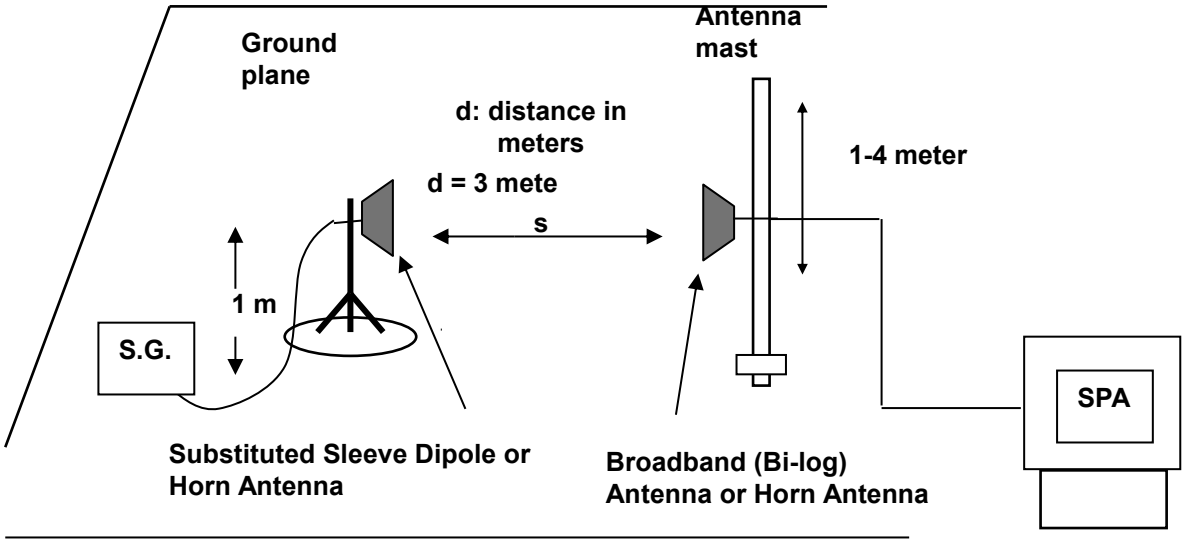
Below 1 GHz



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

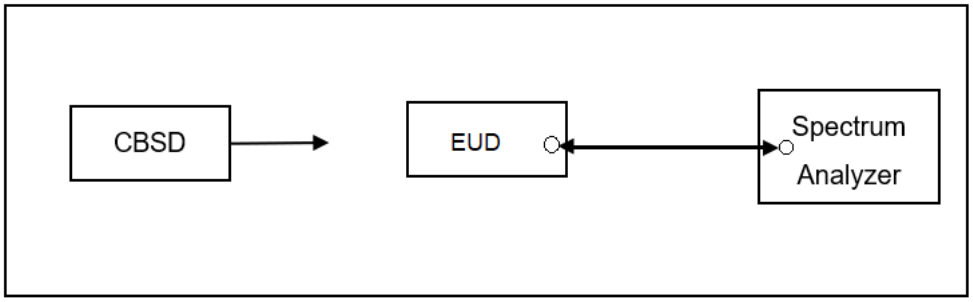
3.9. End user device additional requirements Test

■ Limit

(a) End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

(1) An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

■ Test Setup



Note: CBSD (FCC ID: P27-SCE4255W). LTE

■ Test Procedure

The EUT was connects to a certified CBSD and spectrum analyzer. The following procedure is performed by applying WINNF-TS-0122 CBRS CBSD Test Specification:

1. Setup with low channel and power level 10 dBm/MHz.

Note. Set one of the BW supported by the DUT.

2. Enable AP service from EPC management.
3. Check EUD Tx frequency and power.
4. Disable AP service from EPC management.
5. Check EUD stops transmission within 10 seconds.
6. Setup with high channel and power level 15 dBm/MHz.

Note. Set one of the BW supported by the DUT.

7. Enable AP service from EPC management.
8. Check EUD Tx frequency and power.
9. Disable AP service from EPC management.
10. Check EUD stops transmission within 10 seconds.

4 Test Results

4.1. Conducted Output Average Power and Effective Radiated Power / Equivalent Isotropic Radiated Power

The equipment passed the requirement of this clause, the detail results refer to Appendix A. Test Results_Power and ERP, EIRP

4.2. Emission Bandwidth & Occupied Bandwidth / Peak to Average Ratio / Band Edge / Conducted Spurious Emission

The equipment passed the requirement of this clause, the detail results refer to Appendix B. Test Results_Band n5,n7,n12,n13,n14,n25,n30,n38,n41,n48,n66,n71,n77

4.3. Frequency Stability

Frequency Stability (Temperature Variation)

QPSK_Full RB	NR Band 5_BW 20MHz =	836.5 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-6.7	-0.008	2.5
-20	-2.4	-0.003	2.5
-10	4.5	0.005	2.5
0	9.8	0.012	2.5
10	7.2	0.009	2.5
20	-1.3	-0.002	2.5
30	8.4	0.010	2.5
40	6.9	0.008	2.5
50	-5.2	-0.006	2.5
QPSK_Full RB	NR Band 7_BW 20MHz =	2535 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-4.8	-0.002	2.5
-20	-1.3	-0.001	2.5
-10	7.7	0.003	2.5
0	5.7	0.002	2.5
10	6.6	0.003	2.5
20	4.5	0.002	2.5
30	5.9	0.002	2.5
40	7.4	0.003	2.5
50	-1.4	-0.001	2.5

QPSK_Full RB	NR Band 12_BW 15MHz =	707.5 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-8.9	-0.013	2.5
-20	5.9	0.008	2.5
-10	2.5	0.004	2.5
0	-2.6	-0.004	2.5
10	-3.7	-0.005	2.5
20	-6.7	-0.009	2.5
30	1.5	0.002	2.5
40	-7.2	-0.010	2.5
50	-3.5	-0.005	2.5
QPSK_Full RB	NR Band 13_BW 10MHz =	782 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	7.7	0.010	2.5
-20	-7.2	-0.009	2.5
-10	6.8	0.009	2.5
0	9.1	0.012	2.5
10	-4.3	-0.005	2.5
20	2.6	0.003	2.5
30	1.7	0.002	2.5
40	8.5	0.011	2.5
50	-4.6	-0.006	2.5

QPSK_Full RB	NR Band 14_BW 10MHz =	793 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	2.9	0.004	2.5
-20	2.5	0.003	2.5
-10	3.2	0.004	2.5
0	-4.2	-0.005	2.5
10	-1.5	-0.002	2.5
20	2.7	0.003	2.5
30	4.7	0.006	2.5
40	-2.1	-0.003	2.5
50	1.9	0.002	2.5
QPSK_Full RB	NR Band 25_BW 20MHz =	1882.5 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	9.1	0.005	2.5
-20	4.1	0.002	2.5
-10	12.2	0.006	2.5
0	8.5	0.005	2.5
10	3.4	0.002	2.5
20	4.9	0.003	2.5
30	9.9	0.005	2.5
40	11.9	0.006	2.5
50	10.6	0.006	2.5

QPSK_Full RB	NR Band 30_BW 10MHz =	2310 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	4.5	0.002	2.5
-20	-2.6	-0.001	2.5
-10	-8.7	-0.004	2.5
0	4.7	0.002	2.5
10	9.1	0.004	2.5
20	2.7	0.001	2.5
30	-5.7	-0.002	2.5
40	2.4	0.001	2.5
50	8.4	0.004	2.5
QPSK_Full RB	NR Band 38_BW 40MHz =	2595 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-2.4	-0.001	2.5
-20	-9.5	-0.004	2.5
-10	-15.5	-0.006	2.5
0	-13.7	-0.005	2.5
10	-7.2	-0.003	2.5
20	3.9	0.002	2.5
30	-14.7	-0.006	2.5
40	-17.2	-0.007	2.5
50	-12.8	-0.005	2.5

QPSK_Full RB	NR Band 41_BW 100MHz =	2592.99 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-17.9	-0.007	2.5
-20	-32.9	-0.013	2.5
-10	-25.4	-0.010	2.5
0	-19.4	-0.007	2.5
10	4.3	0.002	2.5
20	-17.1	-0.007	2.5
30	4.1	0.002	2.5
40	-22.2	-0.009	2.5
50	-19	-0.007	2.5
QPSK_Full RB	NR Band 48_BW 40MHz =	3624.99 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	12.5	0.003	2.5
-20	8.9	0.002	2.5
-10	-12.6	-0.003	2.5
0	-7.5	-0.002	2.5
10	11.5	0.003	2.5
20	7.9	0.002	2.5
30	-14.5	-0.004	2.5
40	18.1	0.005	2.5
50	10.9	0.003	2.5

QPSK_Full RB	NR Band 66_BW 20MHz =	1745 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	3.5	0.002	2.5
-20	-2.6	-0.001	2.5
-10	-5.8	-0.003	2.5
0	8.4	0.005	2.5
10	6.9	0.004	2.5
20	-4.7	-0.003	2.5
30	-3.7	-0.002	2.5
40	2.8	0.002	2.5
50	9.5	0.005	2.5
QPSK_Full RB	NR Band 71_BW 20MHz =	680.5 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-3.7	-0.005	2.5
-20	2.8	0.004	2.5
-10	9.4	0.014	2.5
0	6.8	0.010	2.5
10	-4.8	-0.007	2.5
20	8.2	0.012	2.5
30	4.7	0.007	2.5
40	-5.8	-0.009	2.5
50	3.9	0.006	2.5

QPSK_Full RB	NR Band 77_BW 100MHz =	3840 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-14.3	-0.004	2.5
-20	-17.1	-0.004	2.5
-10	7.5	0.002	2.5
0	-9.6	-0.003	2.5
10	2.7	0.001	2.5
20	-9.4	-0.002	2.5
30	-12.5	-0.003	2.5
40	9.3	0.002	2.5
50	6.5	0.002	2.5
QPSK_Full RB	NR Band 77_BW 100MHz =	3500.01 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-12.4	-0.004	2.5
-20	9.7	0.003	2.5
-10	-5.8	-0.002	2.5
0	6.6	0.002	2.5
10	8.7	0.002	2.5
20	-4.2	-0.001	2.5
30	-11.6	-0.003	2.5
40	8.1	0.002	2.5
50	-7.4	-0.002	2.5

BPSK_Full RB	NR Band 5_BW 20MHz =	836.5 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-7.4	-0.009	2.5
-20	-2.3	-0.003	2.5
-10	4.6	0.005	2.5
0	5.9	0.007	2.5
10	7.1	0.008	2.5
20	-2.8	-0.003	2.5
30	-9.4	-0.011	2.5
40	6.3	0.008	2.5
50	8.2	0.010	2.5
BPSK_Full RB	NR Band 7_BW 20MHz =	2535 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-3.7	-0.001	2.5
-20	6.2	0.002	2.5
-10	5.2	0.002	2.5
0	-2.5	-0.001	2.5
10	-6.1	-0.002	2.5
20	7.2	0.003	2.5
30	4.5	0.002	2.5
40	-5.6	-0.002	2.5
50	7.7	0.003	2.5

BPSK_Full RB	NR Band 12_BW 15MHz =	707.5 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	4.7	0.007	2.5
-20	-5.3	-0.007	2.5
-10	-8.2	-0.012	2.5
0	4.5	0.006	2.5
10	-7.7	-0.011	2.5
20	2.5	0.004	2.5
30	3.7	0.005	2.5
40	7.2	0.010	2.5
50	-6.4	-0.009	2.5
BPSK_Full RB	NR Band 13_BW 10MHz =	782 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	3.8	0.005	2.5
-20	-5.7	-0.007	2.5
-10	-4.7	-0.006	2.5
0	1.8	0.002	2.5
10	2.9	0.004	2.5
20	8.4	0.011	2.5
30	-5.8	-0.007	2.5
40	-7.2	-0.009	2.5
50	2.6	0.003	2.5

BPSK_Full RB	NR Band 14_BW 10MHz =	793 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-3.7	-0.005	2.5
-20	4.5	0.006	2.5
-10	2.2	0.003	2.5
0	-3.1	-0.004	2.5
10	1.5	0.002	2.5
20	2.7	0.003	2.5
30	4.3	0.005	2.5
40	-3.9	-0.005	2.5
50	1.6	0.002	2.5
BPSK_Full RB	NR Band 25_BW 20MHz =	1882.5 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	7.8	0.004	2.5
-20	5.1	0.003	2.5
-10	11.1	0.006	2.5
0	10.6	0.006	2.5
10	8.9	0.005	2.5
20	4.7	0.002	2.5
30	8.2	0.004	2.5
40	6.9	0.004	2.5
50	3.6	0.002	2.5

BPSK_Full RB	NR Band 30_BW 10MHz =	2310 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	2.3	0.001	2.5
-20	-6.8	-0.003	2.5
-10	-9.1	-0.004	2.5
0	2.7	0.001	2.5
10	8.4	0.004	2.5
20	5.9	0.003	2.5
30	-6.7	-0.003	2.5
40	9.4	0.004	2.5
50	2.8	0.001	2.5
BPSK_Full RB	NR Band 38_BW 40MHz =	2595 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-16.2	-0.006	2.5
-20	-14.7	-0.006	2.5
-10	3.3	0.001	2.5
0	-12.7	-0.005	2.5
10	2.6	0.001	2.5
20	-14.8	-0.006	2.5
30	-17.7	-0.007	2.5
40	-15.8	-0.006	2.5
50	-9.6	-0.004	2.5

BPSK_Full RB	NR Band 41_BW 100MHz =	2592.99 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	3.6	0.001	2.5
-20	-21.8	-0.008	2.5
-10	-17.4	-0.007	2.5
0	2.4	0.001	2.5
10	-16.9	-0.007	2.5
20	-5.7	-0.002	2.5
30	-24.7	-0.010	2.5
40	-18.3	-0.007	2.5
50	-12.5	-0.005	2.5
BPSK_Full RB	NR Band 48_BW 40MHz =	3624.99 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	16.7	0.005	2.5
-20	-12.4	-0.003	2.5
-10	3.9	0.001	2.5
0	18.8	0.005	2.5
10	-11.6	-0.003	2.5
20	19.4	0.005	2.5
30	-10.7	-0.003	2.5
40	-5.8	-0.002	2.5
50	16.6	0.005	2.5

BPSK_Full RB	NR Band 66_BW 20MHz =	1745 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-4.6	-0.003	2.5
-20	2.8	0.002	2.5
-10	-6.7	-0.004	2.5
0	9.5	0.005	2.5
10	-3.7	-0.002	2.5
20	6.8	0.004	2.5
30	2.9	0.002	2.5
40	5.4	0.003	2.5
50	-6.7	-0.004	2.5
BPSK_Full RB	NR Band 71_BW 20MHz =	680.5 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	4.7	0.007	2.5
-20	-5.7	-0.008	2.5
-10	2.9	0.004	2.5
0	4.8	0.007	2.5
10	-5.7	-0.008	2.5
20	9.5	0.014	2.5
30	-6.7	-0.010	2.5
40	4.6	0.007	2.5
50	-7.8	-0.011	2.5

BPSK_Full RB	NR Band 77_BW 100MHz =	3840 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-11.1	-0.003	2.5
-20	8.9	0.002	2.5
-10	-14.5	-0.004	2.5
0	7.7	0.002	2.5
10	-12.8	-0.003	2.5
20	6.5	0.002	2.5
30	3.8	0.001	2.5
40	-7.4	-0.002	2.5
50	8.6	0.002	2.5
BPSK_Full RB	NR Band 77_BW 100MHz =	3500.01 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-14.2	-0.004	2.5
-20	7.7	0.002	2.5
-10	-11.9	-0.003	2.5
0	8.4	0.002	2.5
10	6.3	0.002	2.5
20	-12.4	-0.004	2.5
30	5.5	0.002	2.5
40	9.2	0.003	2.5
50	-8.8	-0.003	2.5

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QPSK_Full RB	NR Band 41_BW 100MHz =	2592.99 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-13.7	-0.005	2.5
-20	9.5	0.004	2.5
-10	4.2	0.002	2.5
0	-11.4	-0.004	2.5
10	8.8	0.003	2.5
20	7.6	0.003	2.5
30	-3.9	-0.002	2.5
40	6.1	0.002	2.5
50	12.2	0.005	2.5
QPSK_Full RB	NR Band 48_BW 40MHz =	3624.99 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	7.42	0.002	2.5
-20	-6.95	-0.002	2.5
-10	3.9	0.001	2.5
0	-10.63	-0.003	2.5
10	-6.46	-0.002	2.5
20	-3.39	-0.001	2.5
30	2.63	0.001	2.5
40	-4.32	-0.001	2.5
50	8.84	0.002	2.5

QPSK_Full RB	NR Band 77_BW 100MHz =	3840 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-7.39	-0.002	2.5
-20	4.13	0.001	2.5
-10	9.51	0.002	2.5
0	4.59	0.001	2.5
10	-10.86	-0.003	2.5
20	0.61	0.000	2.5
30	3.35	0.001	2.5
40	11.09	0.003	2.5
50	-3.85	-0.001	2.5
QPSK_Full RB	NR Band 77_BW 100MHz =	3500.01 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-6.15	-0.002	2.5
-20	4.16	0.001	2.5
-10	8.8	0.003	2.5
0	-1.86	-0.001	2.5
10	-7.9	-0.002	2.5
20	-4.18	-0.001	2.5
30	8.18	0.002	2.5
40	-2.85	-0.001	2.5
50	1.02	0.000	2.5

BPSK_Full RB	NR Band 41_BW 100MHz =	2592.99 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-9.44	-0.004	2.5
-20	3.58	0.001	2.5
-10	4.69	0.002	2.5
0	6.3	0.002	2.5
10	3.36	0.001	2.5
20	-6.98	-0.003	2.5
30	1.95	0.001	2.5
40	-3.43	-0.001	2.5
50	-3.14	-0.001	2.5
BPSK_Full RB	NR Band 48_BW 40MHz =	3624.99 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	11.93	0.003	2.5
-20	8.41	0.002	2.5
-10	-1.86	-0.001	2.5
0	4.94	0.001	2.5
10	8.19	0.002	2.5
20	-10.43	-0.003	2.5
30	-3.04	-0.001	2.5
40	-4.65	-0.001	2.5
50	8.08	0.002	2.5

BPSK_Full RB	NR Band 77_BW 100MHz =	3840 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	-7.89	-0.002	2.5
-20	-2.11	-0.001	2.5
-10	5.2	0.001	2.5
0	-2.34	-0.001	2.5
10	5.75	0.001	2.5
20	-4.71	-0.001	2.5
30	10.25	0.003	2.5
40	-2.93	-0.001	2.5
50	-2.11	-0.001	2.5
BPSK_Full RB	NR Band 77_BW 100MHz =	3500.01 MHz	
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	7.79	0.002	2.5
-20	-0.3	0.000	2.5
-10	-5	-0.001	2.5
0	9.11	0.003	2.5
10	-9.55	-0.003	2.5
20	-7.72	-0.002	2.5
30	-7.16	-0.002	2.5
40	6.66	0.002	2.5
50	9.86	0.003	2.5

Frequency Stability vs. Voltage

QPSK_Full RB	NR Band 5_BW 20MHz =	836.5 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	8.1	0.010	2.5
Normal	3.70	-6.3	-0.008	2.5
Battery cut-off point	3.33	4.7	0.006	2.5
QPSK_Full RB	NR Band 7_BW 20MHz =	2535 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	4.6	0.002	2.5
Normal	3.70	-3.8	-0.001	2.5
Battery cut-off point	3.33	6.2	0.002	2.5
QPSK_Full RB	NR Band 12_BW 15MHz =	707.5 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-7.2	-0.010	2.5
Normal	3.70	4.5	0.006	2.5
Battery cut-off point	3.33	-8.1	-0.011	2.5
QPSK_Full RB	NR Band 13_BW 10MHz =	782 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	4.7	0.006	2.5
Normal	3.70	-8.2	-0.010	2.5
Battery cut-off point	3.33	3.6	0.005	2.5
QPSK_Full RB	NR Band 14_BW 10MHz =	793 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	3.2	0.004	2.5
Normal	3.70	-1.1	-0.001	2.5
Battery cut-off point	3.33	2.4	0.003	2.5
QPSK_Full RB	NR Band 25_BW 20MHz =	1882.5 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	10.9	0.006	2.5
Normal	3.70	8.4	0.004	2.5
Battery cut-off point	3.33	7.9	0.004	2.5
QPSK_Full RB	NR Band 30_BW 10MHz =	2310 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	2.8	0.001	2.5
Normal	3.70	-8.5	-0.004	2.5
Battery cut-off point	3.33	7.2	0.003	2.5

QPSK_Full RB	NR Band 38_BW 40MHz =	2595 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-16.8	-0.006	2.5
Normal	3.70	2.2	0.001	2.5
Battery cut-off point	3.33	-15.4	-0.006	2.5
QPSK_Full RB	NR Band 41_BW 100MHz =	2592.99 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-24.4	-0.009	2.5
Normal	3.70	-16.2	-0.006	2.5
Battery cut-off point	3.33	3.9	0.002	2.5
QPSK_Full RB	NR Band 48_BW 40MHz =	3624.99 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-11.2	-0.003	2.5
Normal	3.70	16.3	0.004	2.5
Battery cut-off point	3.33	7.8	0.002	2.5
QPSK_Full RB	NR Band 66_BW 20MHz =	1745 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	4.6	0.003	2.5
Normal	3.70	-7.2	-0.004	2.5
Battery cut-off point	3.33	-1.7	-0.001	2.5
QPSK_Full RB	NR Band 71_BW 20MHz =	680.5 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	3.9	0.006	2.5
Normal	3.70	-6.8	-0.010	2.5
Battery cut-off point	3.33	4.4	0.006	2.5
QPSK_Full RB	NR Band 77_BW 100MHz =	3840 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	9.1	0.002	2.5
Normal	3.70	-14.4	-0.004	2.5
Battery cut-off point	3.33	12.6	0.003	2.5
QPSK_Full RB	NR Band 77_BW 100MHz =	3500.01 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	7.2	0.002	2.5
Normal	3.70	-11.6	-0.003	2.5
Battery cut-off point	3.33	13.4	0.004	2.5

BPSK_Full RB	NR Band 5_BW 20MHz =	836.5 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-4.3	-0.005	2.5
Normal	3.70	7.2	0.009	2.5
Battery cut-off point	3.33	5.9	0.007	2.5
BPSK_Full RB	NR Band 7_BW 20MHz =	2535 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	7.2	0.003	2.5
Normal	3.70	-4.1	-0.002	2.5
Battery cut-off point	3.33	3.6	0.001	2.5
BPSK_Full RB	NR Band 12_BW 15MHz =	707.5 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-7.1	-0.010	2.5
Normal	3.70	4.5	0.006	2.5
Battery cut-off point	3.33	1.2	0.002	2.5
BPSK_Full RB	NR Band 13_BW 10MHz =	782 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-4.7	-0.006	2.5
Normal	3.70	9.2	0.012	2.5
Battery cut-off point	3.33	6.8	0.009	2.5
BPSK_Full RB	NR Band 14_BW 10MHz =	793 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	3.6	0.005	2.5
Normal	3.70	-2.5	-0.003	2.5
Battery cut-off point	3.33	-4.4	-0.006	2.5
BPSK_Full RB	NR Band 25_BW 20MHz =	1882.5 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	9.8	0.005	2.5
Normal	3.70	6.7	0.004	2.5
Battery cut-off point	3.33	11.4	0.006	2.5
BPSK_Full RB	NR Band 30_BW 10MHz =	2310 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-9.2	-0.004	2.5
Normal	3.70	6.8	0.003	2.5
Battery cut-off point	3.33	-3.6	-0.002	2.5

BPSK_Full RB	NR Band 38_BW 40MHz =	2595 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-15.6	-0.006	2.5
Normal	3.70	3.3	0.001	2.5
Battery cut-off point	3.33	-14.2	-0.005	2.5
BPSK_Full RB	NR Band 41_BW 100MHz =	2592.99 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-16.9	-0.007	2.5
Normal	3.70	-22.8	-0.009	2.5
Battery cut-off point	3.33	4.1	0.002	2.5
BPSK_Full RB	NR Band 48_BW 40MHz =	3624.99 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	17.2	0.005	2.5
Normal	3.70	-18.9	-0.005	2.5
Battery cut-off point	3.33	6.9	0.002	2.5
BPSK_Full RB	NR Band 66_BW 20MHz =	1745 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-9.1	-0.005	2.5
Normal	3.70	4.7	0.003	2.5
Battery cut-off point	3.33	8.5	0.005	2.5
BPSK_Full RB	NR Band 71_BW 20MHz =	680.5 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	2.6	0.004	2.5
Normal	3.70	7.9	0.012	2.5
Battery cut-off point	3.33	-5.8	-0.009	2.5
BPSK_Full RB	NR Band 77_BW 100MHz =	3840 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-16.6	-0.004	2.5
Normal	3.70	8.8	0.002	2.5
Battery cut-off point	3.33	-12.4	-0.003	2.5
BPSK_Full RB	NR Band 77_BW 100MHz =	3500.01 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-14.8	-0.004	2.5
Normal	3.70	9.7	0.003	2.5
Battery cut-off point	3.33	-11.3	-0.003	2.5

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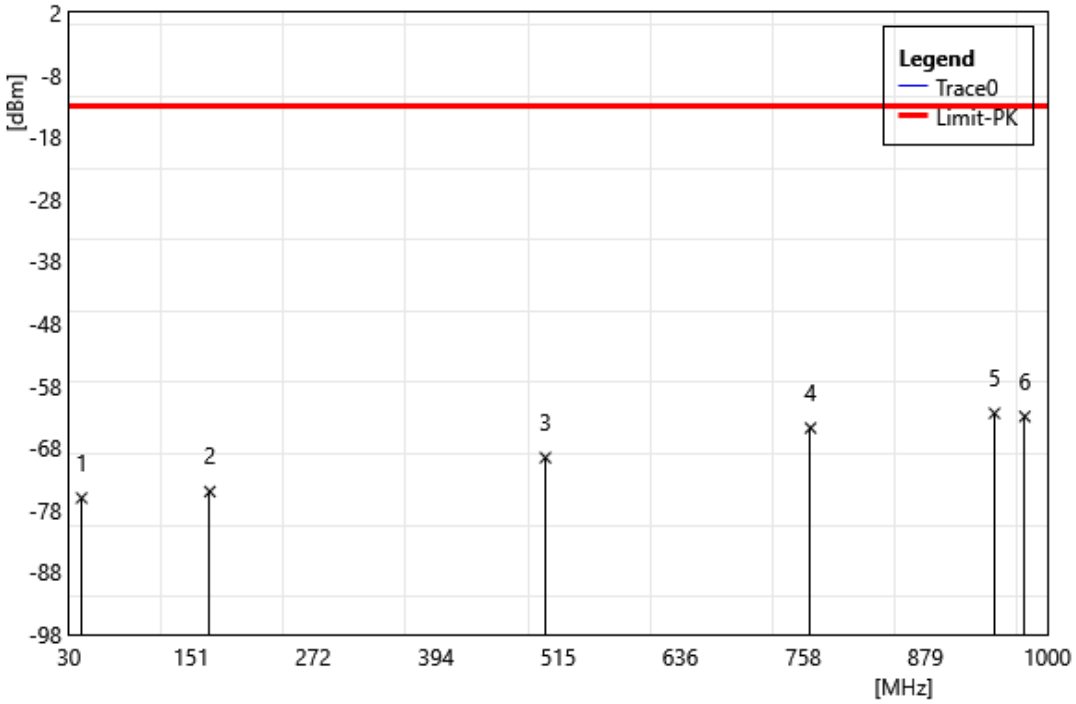
QPSK_Full RB	NR Band 41_BW 100MHz =	2592.99 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-12.6	-0.005	2.5
Normal	3.70	9.2	0.004	2.5
Battery cut-off point	3.33	5.7	0.002	2.5
QPSK_Full RB	NR Band 48_BW 40MHz =	3624.99 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	11.3	0.003	2.5
Normal	3.70	6.8	0.002	2.5
Battery cut-off point	3.33	3.4	0.001	2.5
QPSK_Full RB	NR Band 77_BW 100MHz =	3840 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	7.4	0.002	2.5
Normal	3.70	-11.5	-0.003	2.5
Battery cut-off point	3.33	6.2	0.002	2.5
QPSK_Full RB	NR Band 77_BW 100MHz =	3500.01 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	8.3	0.002	2.5
Normal	3.70	7.6	0.002	2.5
Battery cut-off point	3.33	-10.2	-0.003	2.5
BPSK_Full RB	NR Band 41_BW 100MHz =	2592.99 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	10.9	0.004	2.5
Normal	3.70	-5.7	-0.002	2.5
Battery cut-off point	3.33	4.2	0.002	2.5

BPSK_Full RB	NR Band 48_BW 40MHz =	3624.99 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	6.3	0.002	2.5
Normal	3.70	-11.4	-0.003	2.5
Battery cut-off point	3.33	-2.2	-0.001	2.5
BPSK_Full RB	NR Band 77_BW 100MHz =	3840 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	4.3	0.001	2.5
Normal	3.70	8.1	0.002	2.5
Battery cut-off point	3.33	-12.6	-0.003	2.5
BPSK_Full RB	NR Band 77_BW 100MHz =	3500.01 MHz		
Level	Voltage [V]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Battery full point	4.07	-13.6	-0.004	2.5
Normal	3.70	7.1	0.002	2.5
Battery cut-off point	3.33	4.9	0.001	2.5

4.4. Radiated Emission

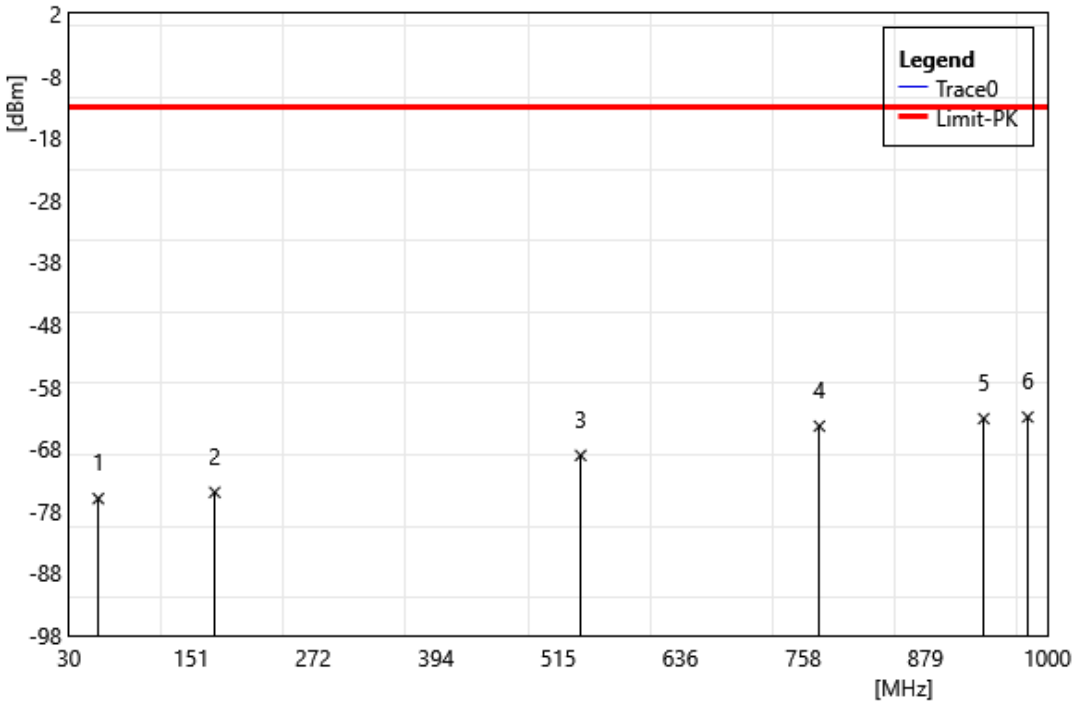
Below 1 GHz

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n7 SA 15k QPSK BW:20M		
	2525 MHz		
Polarization:	Horizontal		
Remark:			



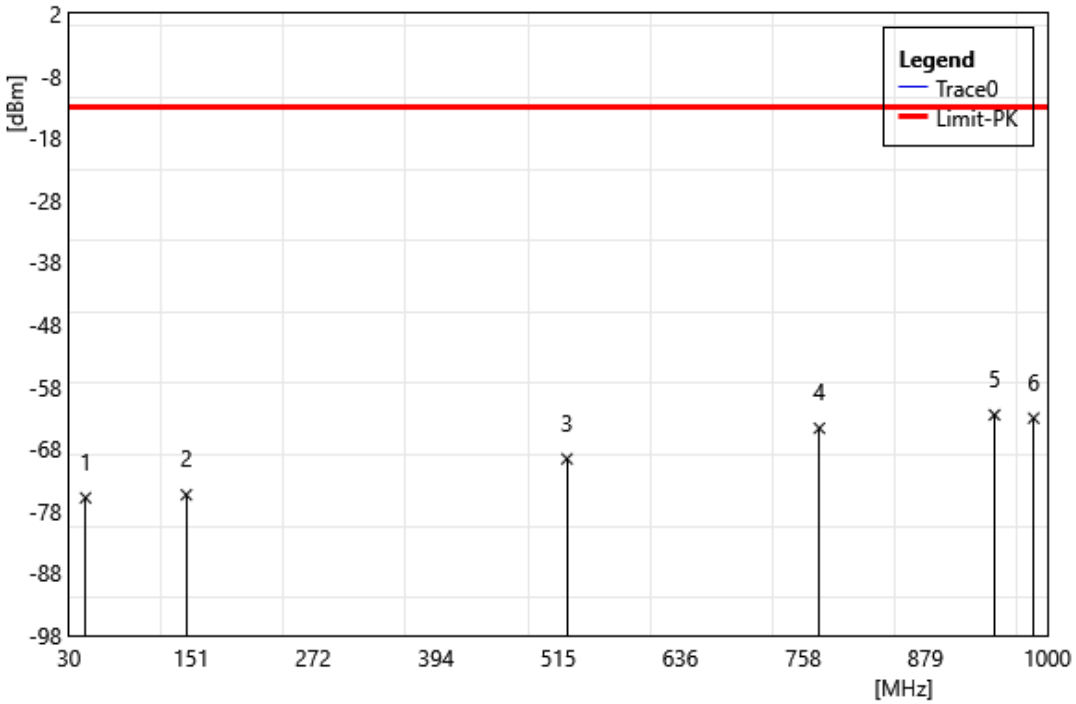
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	42.61	-64.27	-11.79	-76.06	-13.00	-63.06	PEAK
2	169.68	-62.84	-12.19	-75.03	-13.00	-62.03	PEAK
3	502.39	-62.63	-6.95	-69.58	-13.00	-56.58	PEAK
4	765.26	-62.63	-2.17	-64.80	-13.00	-51.80	PEAK
5	947.62	-62.60	0.17	-62.43	-13.00	-49.43	PEAK
6	977.69	-62.50	-0.45	-62.95	-13.00	-49.95	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n7 SA 15k QPSK BW:20M		
	2525 MHz		
Polarization:	Vertical		
Remark:			



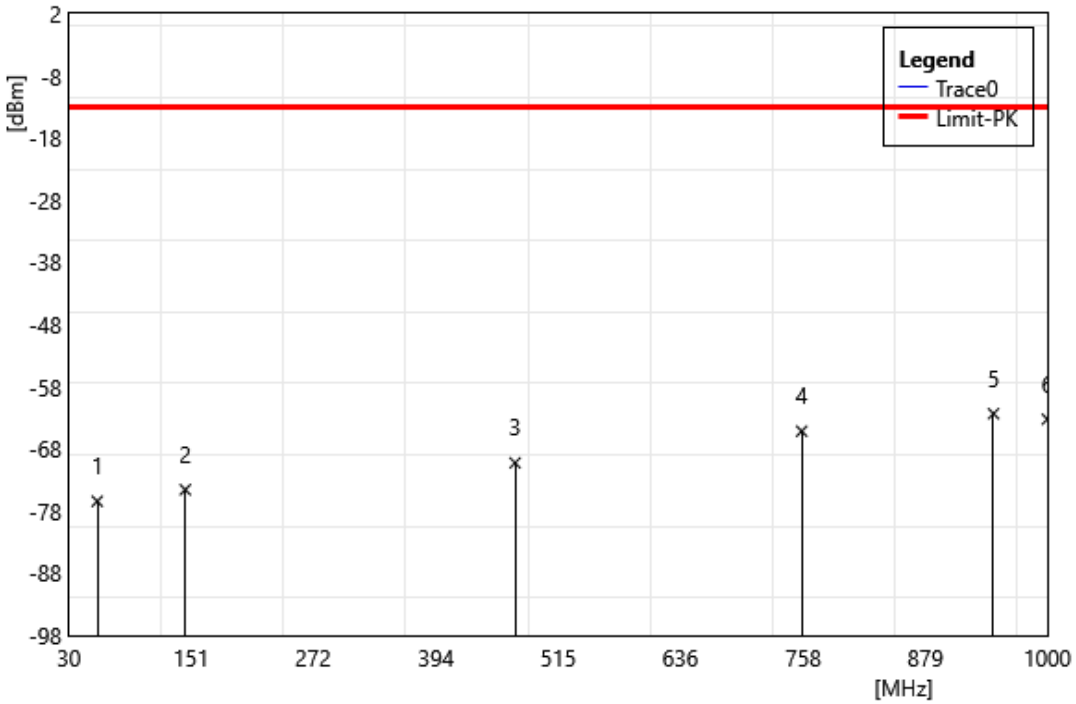
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	59.10	-63.33	-12.67	-76.00	-13.00	-63.00	PEAK
2	174.53	-62.41	-12.57	-74.98	-13.00	-61.98	PEAK
3	537.31	-62.69	-6.36	-69.05	-13.00	-56.05	PEAK
4	773.99	-62.21	-2.13	-64.34	-13.00	-51.34	PEAK
5	936.95	-63.04	-0.10	-63.14	-13.00	-50.14	PEAK
6	980.60	-62.52	-0.36	-62.88	-13.00	-49.88	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n7 SA 15k QPSK BW:20M		
	2535 MHz		
Polarization:	Horizontal		
Remark:			



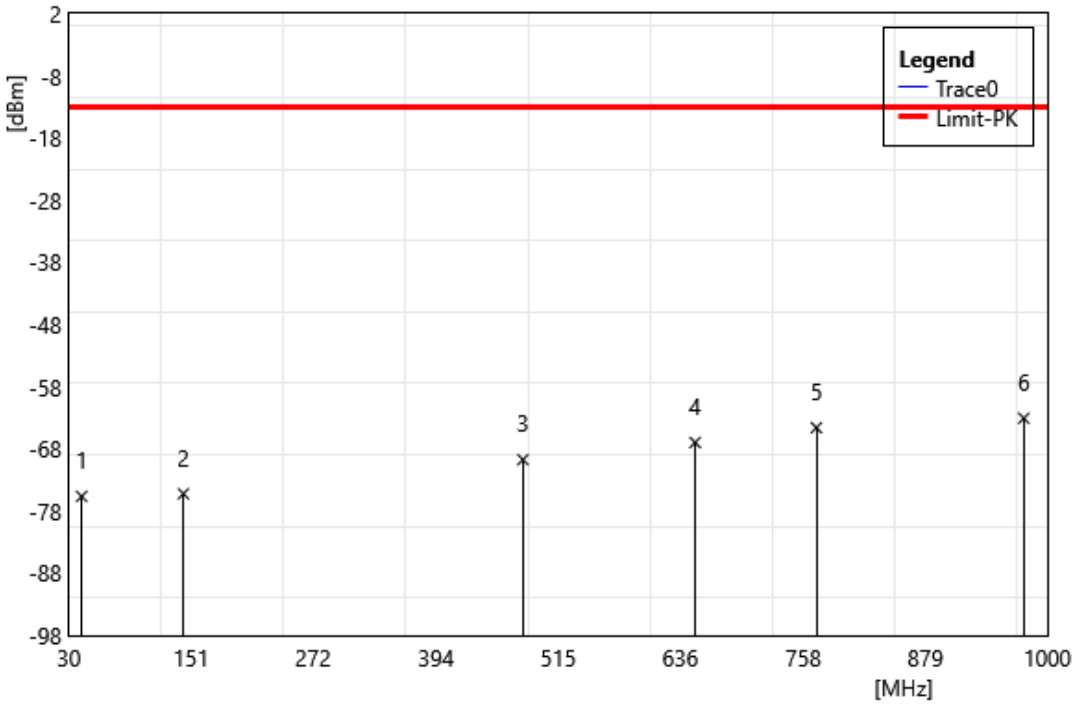
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	46.49	-63.92	-11.95	-75.87	-13.00	-62.87	PEAK
2	146.40	-63.55	-11.83	-75.38	-13.00	-62.38	PEAK
3	523.73	-62.88	-6.73	-69.61	-13.00	-56.61	PEAK
4	773.99	-62.55	-2.13	-64.68	-13.00	-51.68	PEAK
5	947.62	-62.70	0.17	-62.53	-13.00	-49.53	PEAK
6	986.42	-62.78	-0.27	-63.05	-13.00	-50.05	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n7 SA 15k QPSK BW:20M		
	2535 MHz		
Polarization:	Vertical		
Remark:			



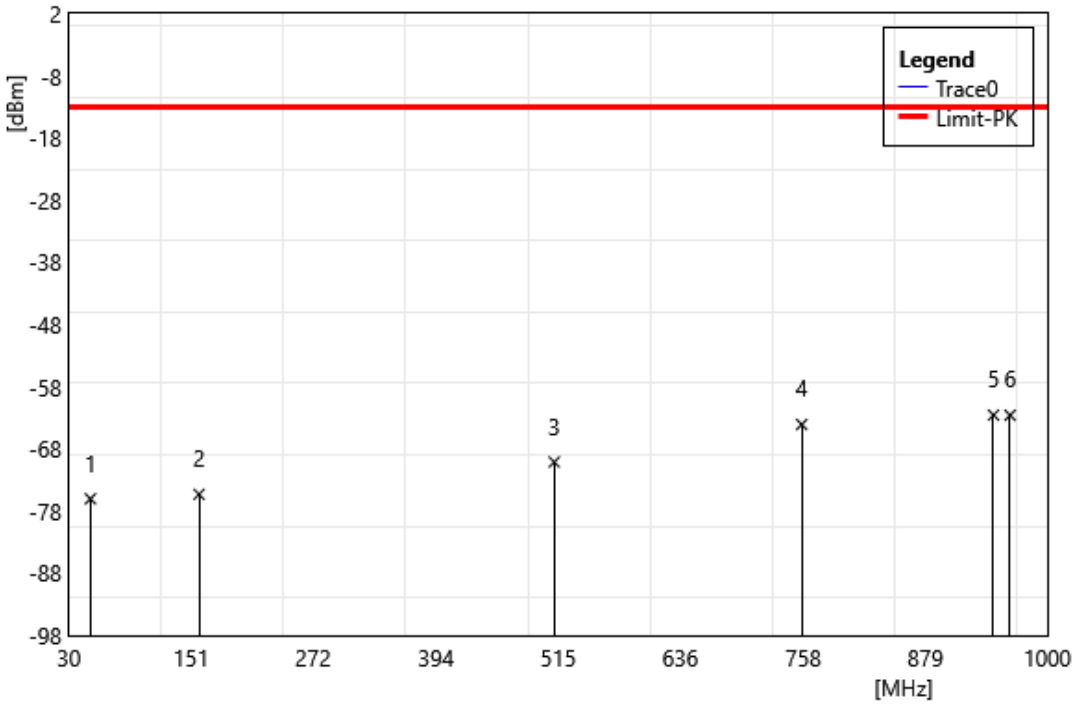
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	58.13	-63.76	-12.67	-76.43	-13.00	-63.43	PEAK
2	145.43	-62.58	-11.98	-74.57	-13.00	-61.57	PEAK
3	472.32	-62.84	-7.40	-70.25	-13.00	-57.25	PEAK
4	756.53	-62.85	-2.31	-65.16	-13.00	-52.16	PEAK
5	946.65	-62.51	0.17	-62.34	-13.00	-49.34	PEAK
6	1000.00	-63.07	-0.16	-63.23	-13.00	-50.23	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n7 SA 15k QPSK BW:20M		
	2545 MHz		
Polarization:	Horizontal		
Remark:			



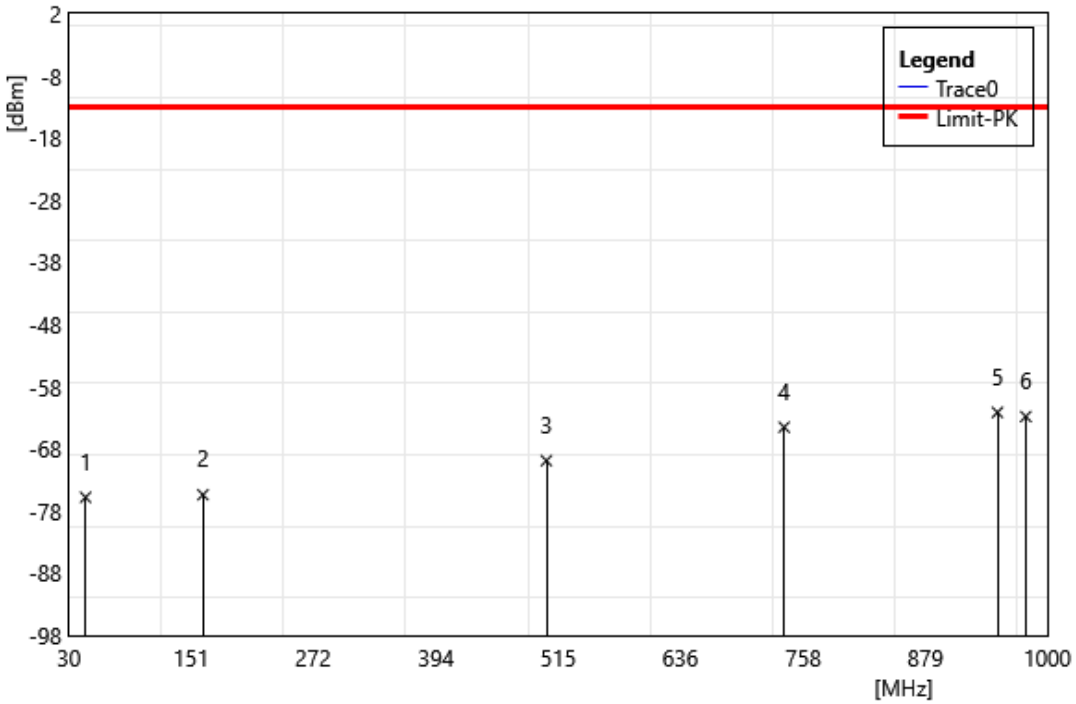
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	42.61	-63.85	-11.79	-75.64	-13.00	-62.64	PEAK
2	143.49	-63.30	-11.92	-75.22	-13.00	-62.22	PEAK
3	480.08	-62.49	-7.25	-69.74	-13.00	-56.74	PEAK
4	650.80	-63.15	-3.81	-66.96	-13.00	-53.96	PEAK
5	771.08	-62.41	-2.18	-64.59	-13.00	-51.59	PEAK
6	976.72	-62.58	-0.48	-63.06	-13.00	-50.06	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n7 SA 15k QPSK BW:20M		
	2545 MHz		
Polarization:	Vertical		
Remark:			



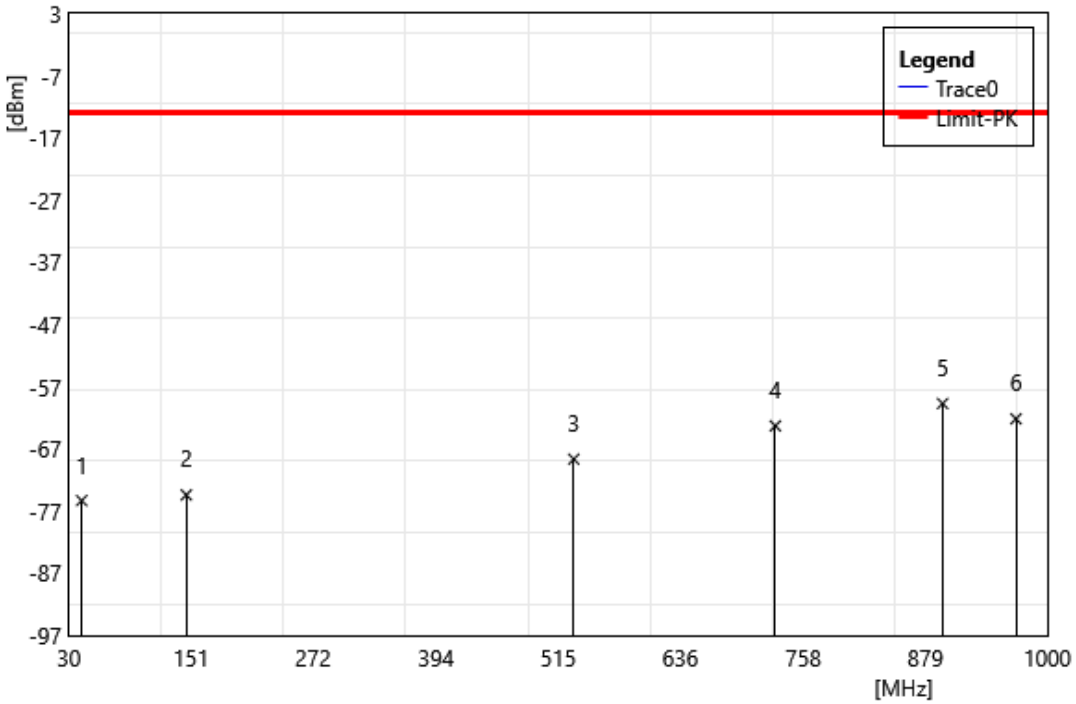
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	51.34	-63.90	-12.13	-76.04	-13.00	-63.04	PEAK
2	159.01	-63.41	-11.90	-75.31	-13.00	-62.31	PEAK
3	511.12	-63.37	-6.74	-70.11	-13.00	-57.11	PEAK
4	756.53	-61.76	-2.31	-64.07	-13.00	-51.07	PEAK
5	946.65	-62.73	0.17	-62.56	-13.00	-49.56	PEAK
6	963.14	-62.44	-0.15	-62.59	-13.00	-49.59	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n12 SA 15k QPSK BW:15M		
	706.5 MHz		
Polarization:	Horizontal		
Remark:			



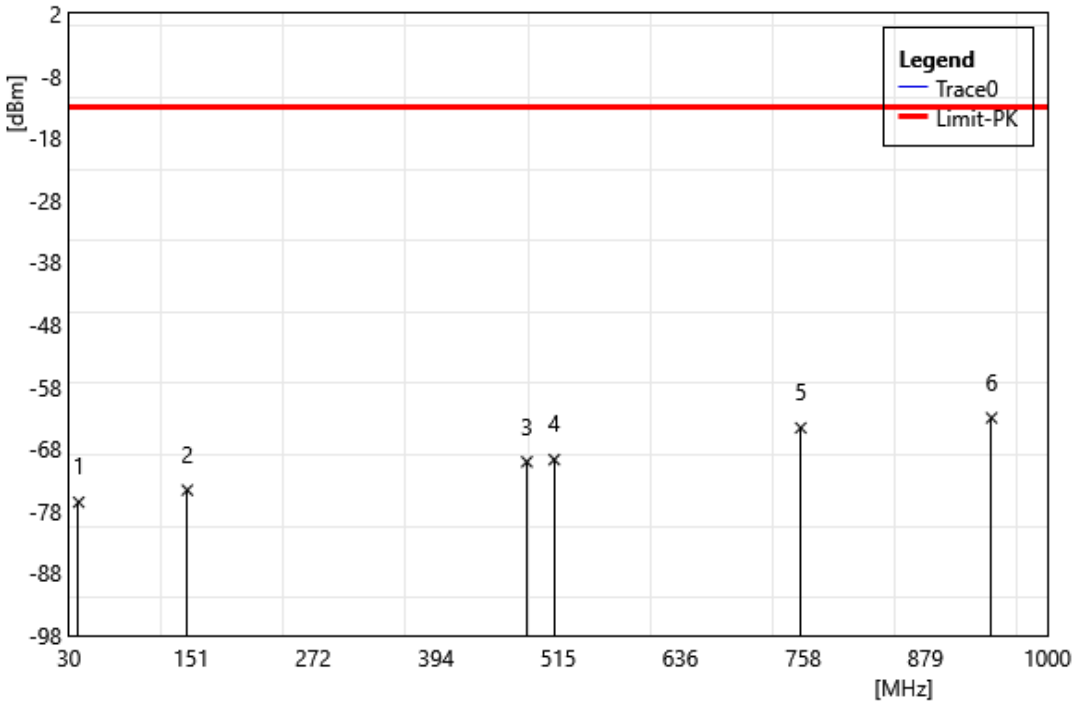
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	46.49	-63.83	-11.95	-75.79	-13.00	-62.79	PEAK
2	162.89	-63.41	-11.97	-75.38	-13.00	-62.38	PEAK
3	503.36	-62.97	-6.92	-69.89	-13.00	-56.89	PEAK
4	739.07	-61.76	-2.76	-64.52	-13.00	-51.52	PEAK
5	950.53	-62.30	0.16	-62.14	-13.00	-49.14	PEAK
6	978.66	-62.39	-0.41	-62.80	-13.00	-49.80	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n12 SA 15k QPSK BW:15M		
	706.5 MHz		
Polarization:	Vertical		
Remark:			



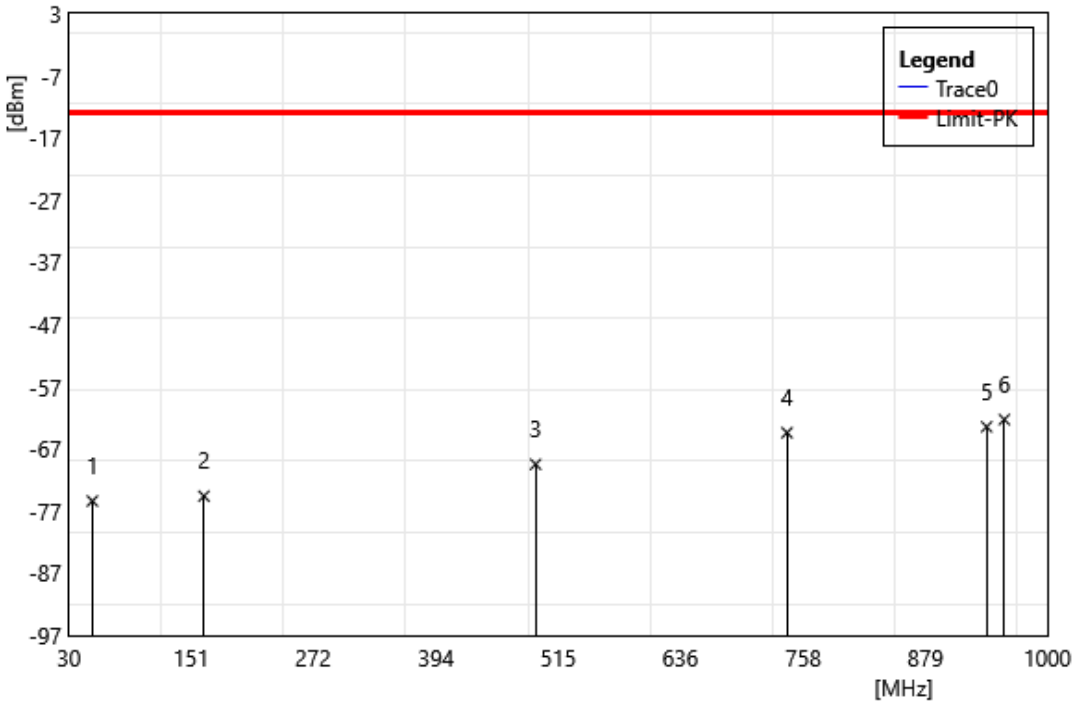
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	42.61	-63.52	-11.79	-75.31	-13.00	-62.31	PEAK
2	146.40	-62.57	-11.83	-74.40	-13.00	-61.40	PEAK
3	530.52	-62.13	-6.51	-68.64	-13.00	-55.64	PEAK
4	730.34	-60.37	-2.93	-63.30	-13.00	-50.30	PEAK
5	896.21	-58.66	-1.04	-59.70	-13.00	-46.70	PEAK
6	968.96	-61.79	-0.38	-62.17	-13.00	-49.17	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n12 SA 15k QPSK BW:15M		
	707.5 MHz		
Polarization:	Horizontal		
Remark:			



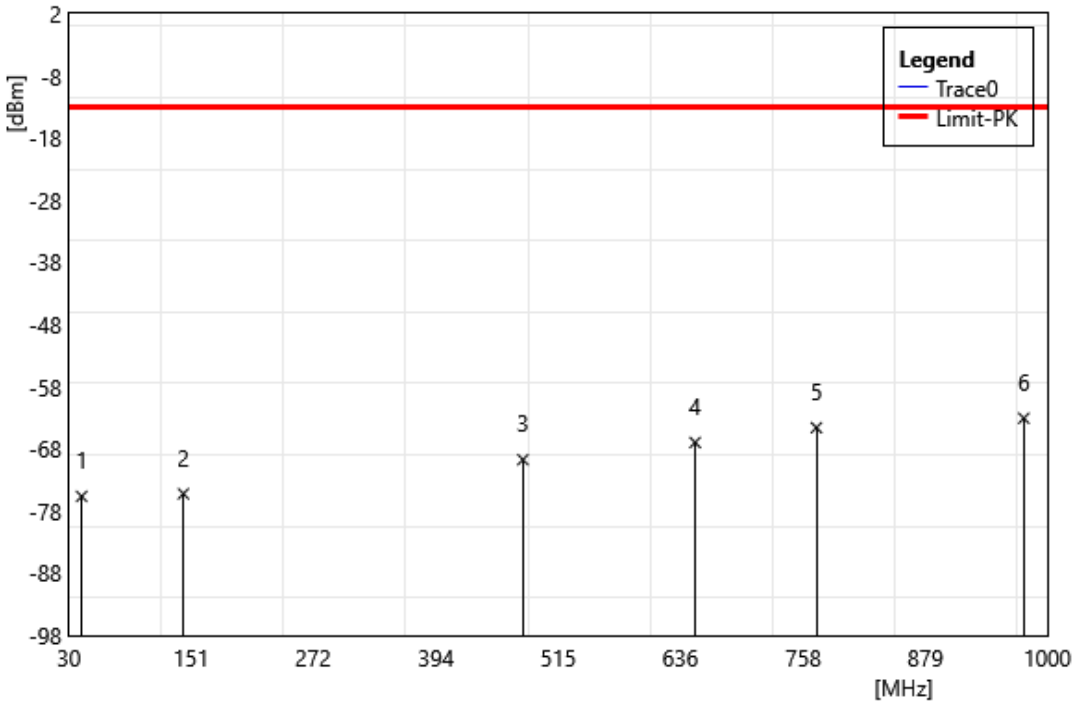
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	39.70	-64.34	-12.24	-76.58	-13.00	-63.58	PEAK
2	147.37	-62.78	-11.85	-74.63	-13.00	-61.63	PEAK
3	483.96	-62.91	-7.17	-70.08	-13.00	-57.08	PEAK
4	511.12	-62.99	-6.74	-69.73	-13.00	-56.73	PEAK
5	755.56	-62.30	-2.33	-64.63	-13.00	-51.63	PEAK
6	944.71	-63.16	0.15	-63.01	-13.00	-50.01	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n12 SA 15k QPSK BW:15M		
	707.5 MHz		
Polarization:	Vertical		
Remark:			



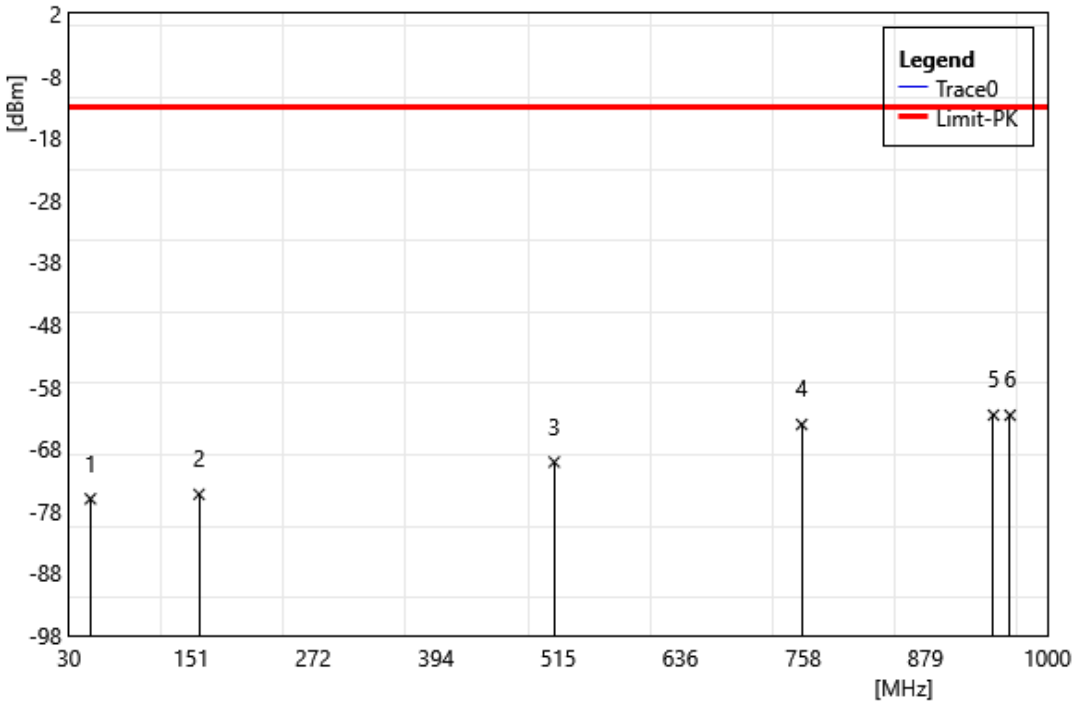
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	53.28	-63.01	-12.38	-75.39	-13.00	-62.39	PEAK
2	163.86	-62.74	-11.86	-74.60	-13.00	-61.60	PEAK
3	492.69	-62.44	-7.05	-69.49	-13.00	-56.49	PEAK
4	741.98	-61.76	-2.64	-64.40	-13.00	-51.40	PEAK
5	939.86	-63.42	-0.03	-63.45	-13.00	-50.45	PEAK
6	957.32	-62.27	-0.02	-62.29	-13.00	-49.29	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n12 SA 15k QPSK BW:15M		
	708.5 MHz		
Polarization:	Horizontal		
Remark:			



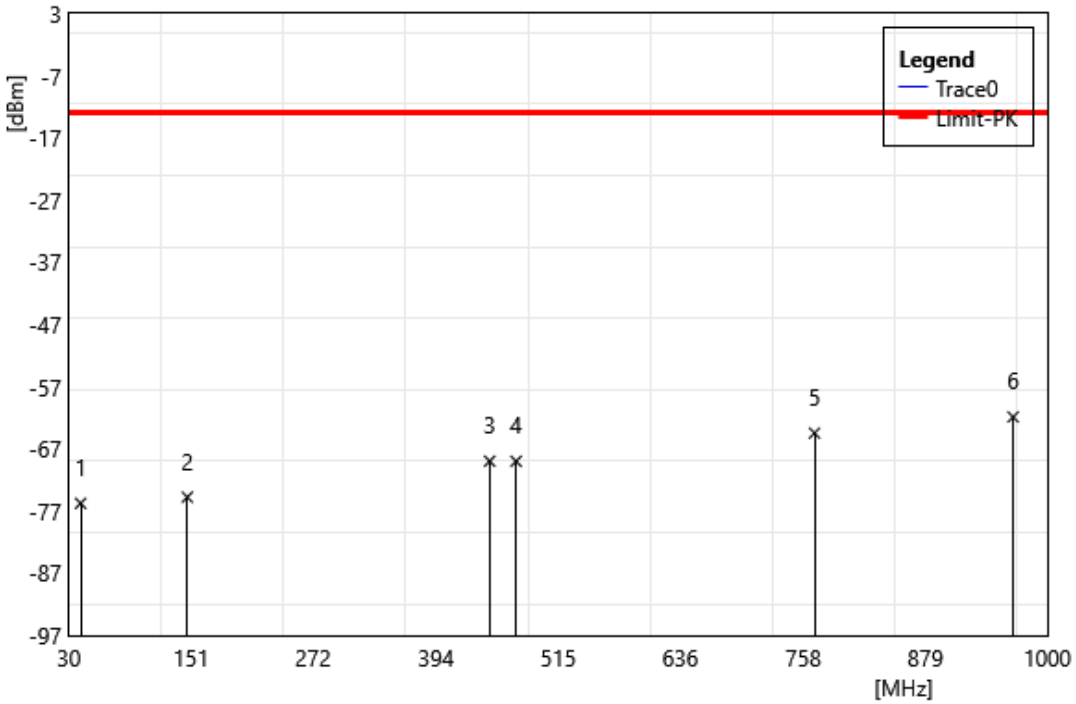
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	42.61	-63.85	-11.79	-75.64	-13.00	-62.64	PEAK
2	143.49	-63.30	-11.92	-75.22	-13.00	-62.22	PEAK
3	480.08	-62.49	-7.25	-69.74	-13.00	-56.74	PEAK
4	650.80	-63.15	-3.81	-66.96	-13.00	-53.96	PEAK
5	771.08	-62.41	-2.18	-64.59	-13.00	-51.59	PEAK
6	976.72	-62.58	-0.48	-63.06	-13.00	-50.06	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n12 SA 15k QPSK BW:15M		
	708.5 MHz		
Polarization:	Vertical		
Remark:			



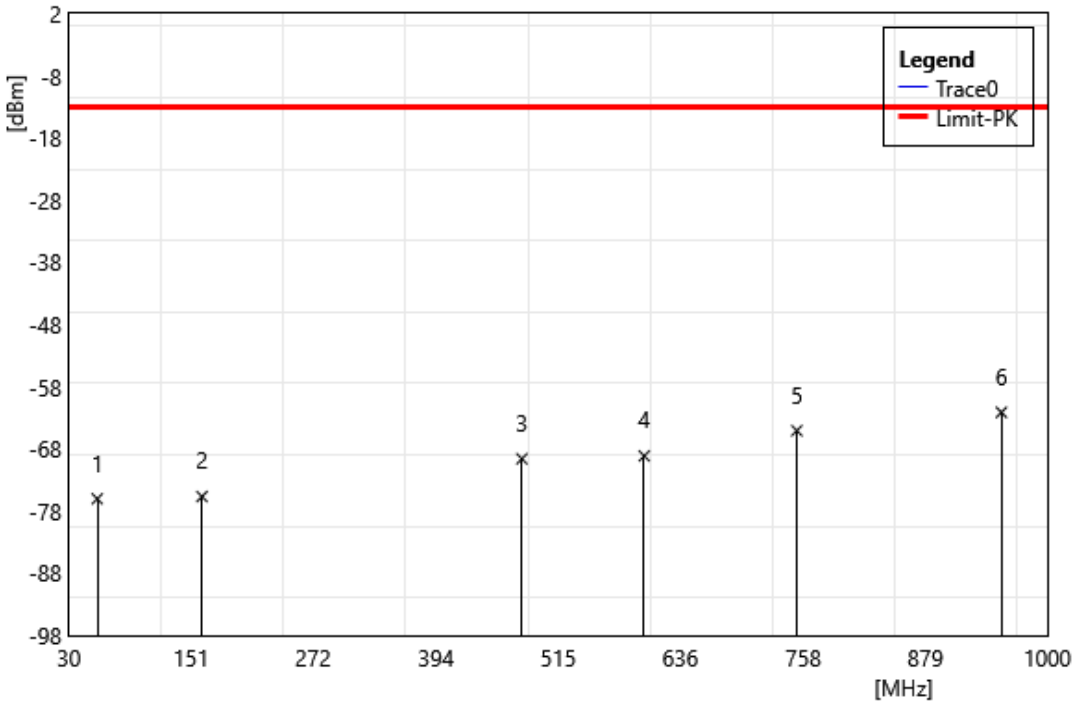
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	51.34	-63.90	-12.13	-76.04	-13.00	-63.04	PEAK
2	159.01	-63.41	-11.90	-75.31	-13.00	-62.31	PEAK
3	511.12	-63.37	-6.74	-70.11	-13.00	-57.11	PEAK
4	756.53	-61.76	-2.31	-64.07	-13.00	-51.07	PEAK
5	946.65	-62.73	0.17	-62.56	-13.00	-49.56	PEAK
6	963.14	-62.44	-0.15	-62.59	-13.00	-49.59	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n13 SA 15k QPSK BW:10M		
	782 MHz		
Polarization:	Horizontal		
Remark:			



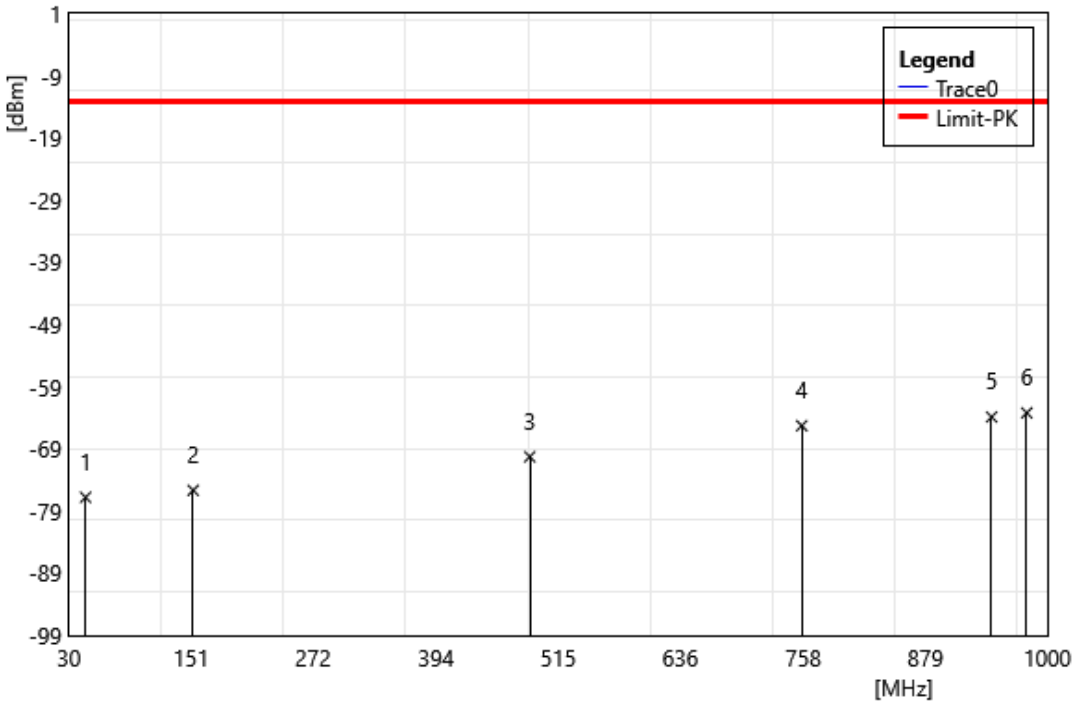
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	41.64	-63.77	-11.99	-75.76	-13.00	-62.76	PEAK
2	147.37	-62.92	-11.85	-74.77	-13.00	-61.77	PEAK
3	447.10	-61.31	-7.66	-68.97	-13.00	-55.97	PEAK
4	473.29	-61.61	-7.38	-68.99	-13.00	-55.99	PEAK
5	769.14	-62.27	-2.19	-64.46	-13.00	-51.46	PEAK
6	966.05	-61.62	-0.24	-61.86	-13.00	-48.86	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n13 SA 15k QPSK BW:10M		
	782 MHz		
Polarization:	Vertical		
Remark:			



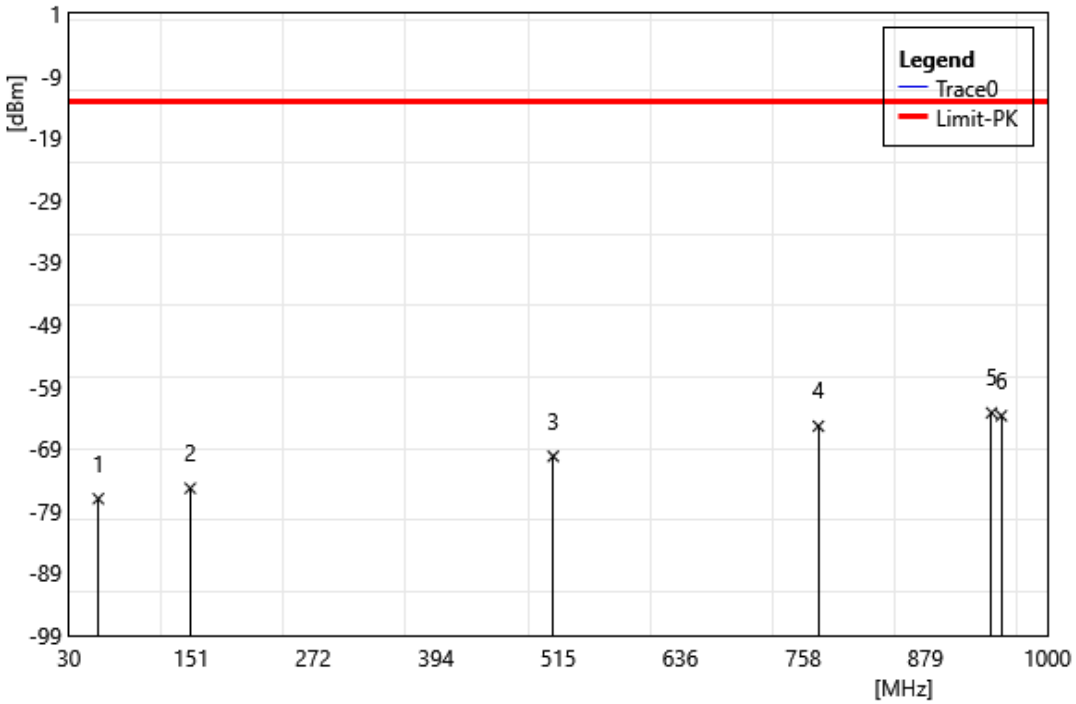
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	58.13	-63.35	-12.67	-76.02	-13.00	-63.02	PEAK
2	161.92	-63.67	-12.00	-75.67	-13.00	-62.67	PEAK
3	479.11	-62.32	-7.27	-69.59	-13.00	-56.59	PEAK
4	600.36	-64.24	-4.89	-69.13	-13.00	-56.13	PEAK
5	751.68	-62.67	-2.40	-65.07	-13.00	-52.07	PEAK
6	954.41	-62.18	0.06	-62.12	-13.00	-49.12	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n30 SA 15k QPSK BW:10M		
	2310 MHz		
Polarization:	Horizontal		
Remark:			



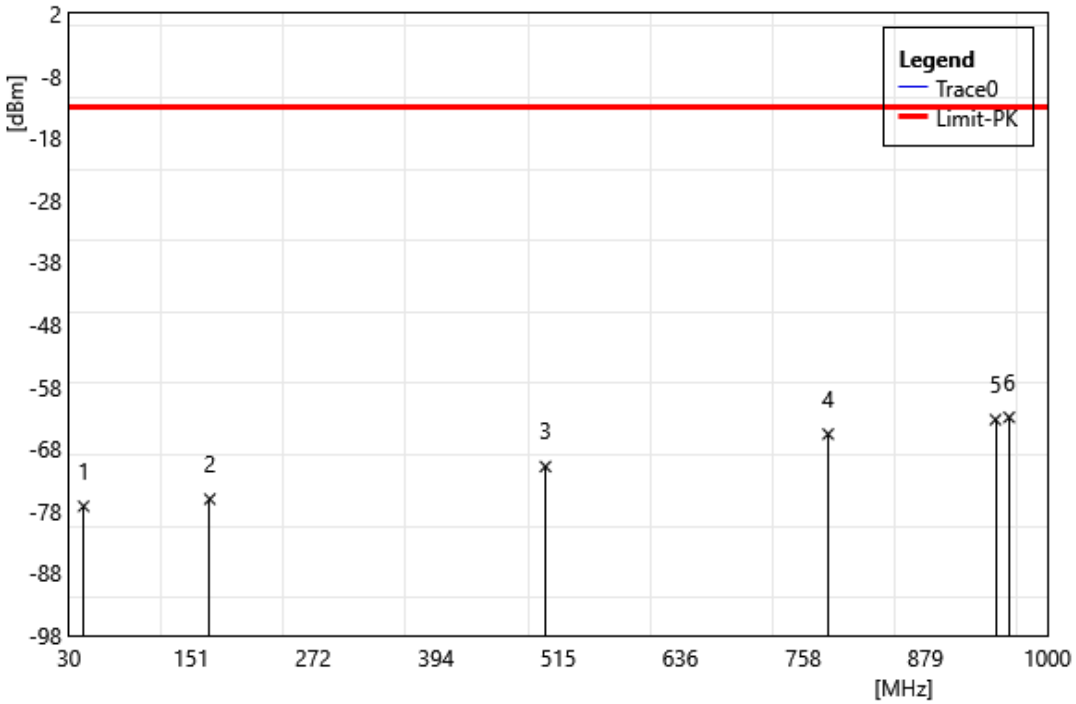
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	46.49	-64.83	-11.95	-76.78	-13.00	-63.78	PEAK
2	153.19	-63.47	-12.20	-75.67	-13.00	-62.67	PEAK
3	486.87	-63.16	-7.11	-70.27	-13.00	-57.27	PEAK
4	756.53	-62.96	-2.31	-65.28	-13.00	-52.28	PEAK
5	944.71	-64.02	0.15	-63.87	-13.00	-50.87	PEAK
6	979.63	-62.83	-0.37	-63.20	-13.00	-50.20	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n30 SA 15k QPSK BW:10M		
	2310 MHz		
Polarization:	Vertical		
Remark:			



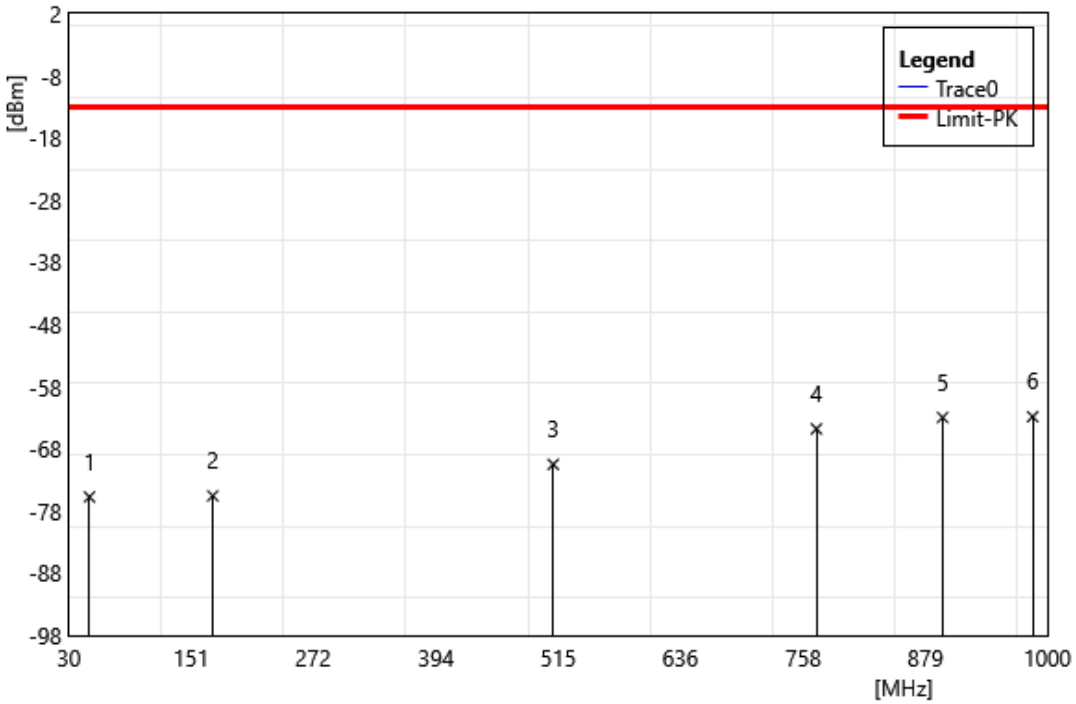
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	59.10	-64.34	-12.67	-77.01	-13.00	-64.01	PEAK
2	150.28	-63.47	-11.86	-75.33	-13.00	-62.33	PEAK
3	510.15	-63.45	-6.74	-70.19	-13.00	-57.19	PEAK
4	773.02	-63.21	-2.14	-65.35	-13.00	-52.35	PEAK
5	944.71	-63.36	0.15	-63.21	-13.00	-50.21	PEAK
6	954.41	-63.73	0.06	-63.67	-13.00	-50.67	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n38 SA 30k QPSK BW:40M		
	2590 MHz		
Polarization:	Horizontal		
Remark:			



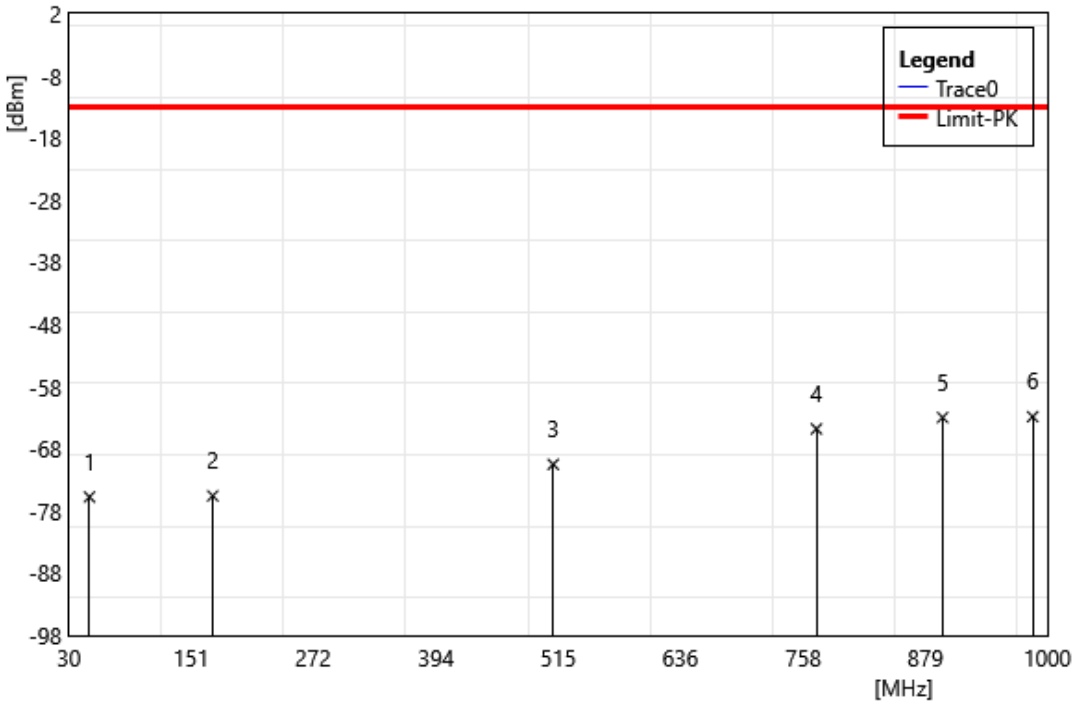
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	44.55	-65.28	-11.95	-77.23	-13.00	-64.23	PEAK
2	169.68	-63.90	-12.19	-76.09	-13.00	-63.09	PEAK
3	502.39	-63.90	-6.95	-70.85	-13.00	-57.85	PEAK
4	782.72	-63.48	-2.14	-65.62	-13.00	-52.62	PEAK
5	948.59	-63.47	0.17	-63.30	-13.00	-50.30	PEAK
6	962.17	-62.79	-0.13	-62.92	-13.00	-49.92	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n38 SA 30k QPSK BW:40M		
	2590 MHz		
Polarization:	Vertical		
Remark:			



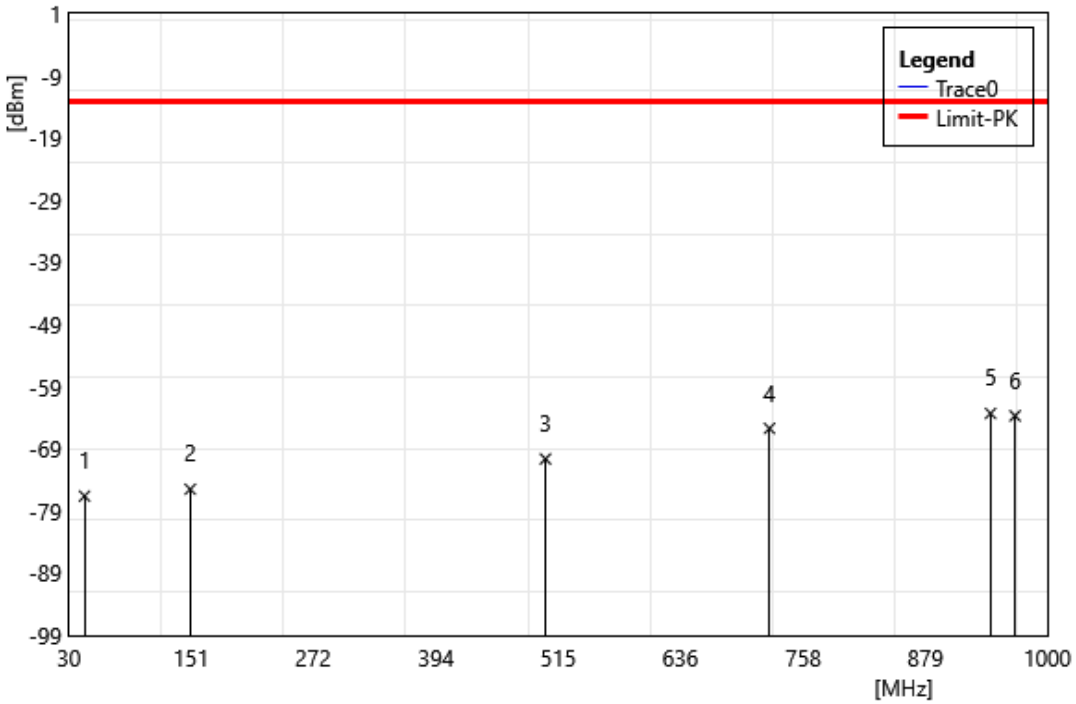
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	50.37	-63.55	-12.17	-75.72	-13.00	-62.72	PEAK
2	172.59	-63.12	-12.44	-75.56	-13.00	-62.56	PEAK
3	510.15	-63.75	-6.74	-70.49	-13.00	-57.49	PEAK
4	771.08	-62.60	-2.18	-64.78	-13.00	-51.78	PEAK
5	896.21	-61.91	-1.04	-62.95	-13.00	-49.95	PEAK
6	985.45	-62.54	-0.28	-62.82	-13.00	-49.82	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n38 SA 30k QPSK BW:40M		
	2595 MHz		
Polarization:	Horizontal		
Remark:			



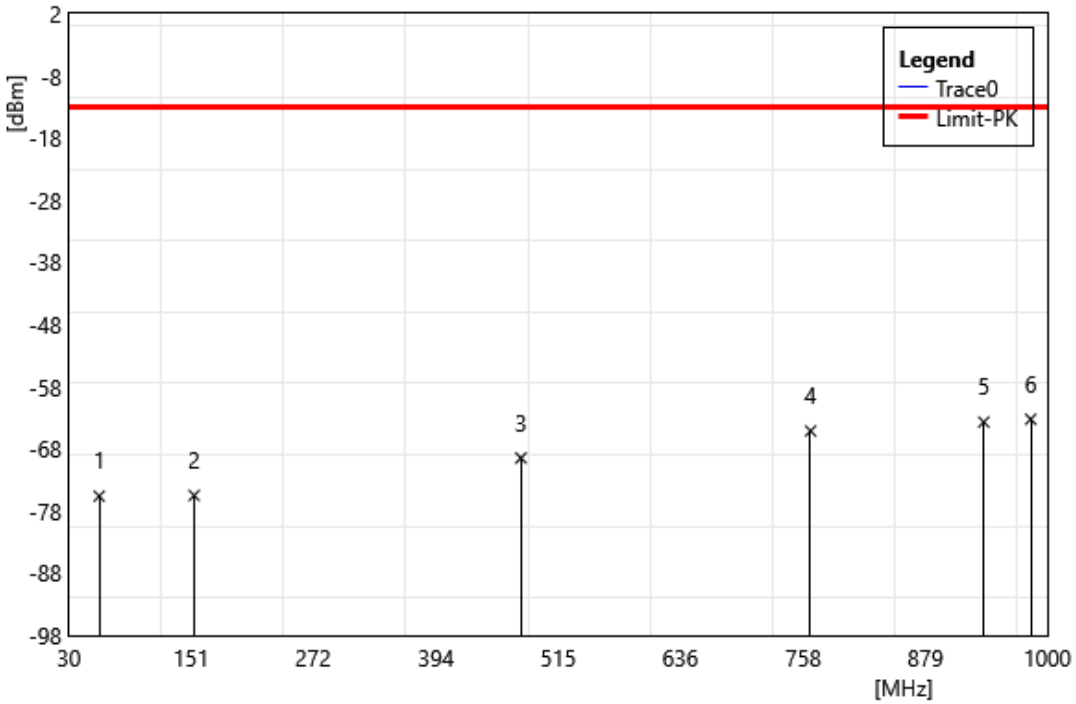
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	50.37	-63.55	-12.17	-75.72	-13.00	-62.72	PEAK
2	172.59	-63.12	-12.44	-75.56	-13.00	-62.56	PEAK
3	510.15	-63.75	-6.74	-70.49	-13.00	-57.49	PEAK
4	771.08	-62.60	-2.18	-64.78	-13.00	-51.78	PEAK
5	896.21	-61.91	-1.04	-62.95	-13.00	-49.95	PEAK
6	985.45	-62.54	-0.28	-62.82	-13.00	-49.82	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n38 SA 30k QPSK BW:40M		
	2595 MHz		
Polarization:	Vertical		
Remark:			



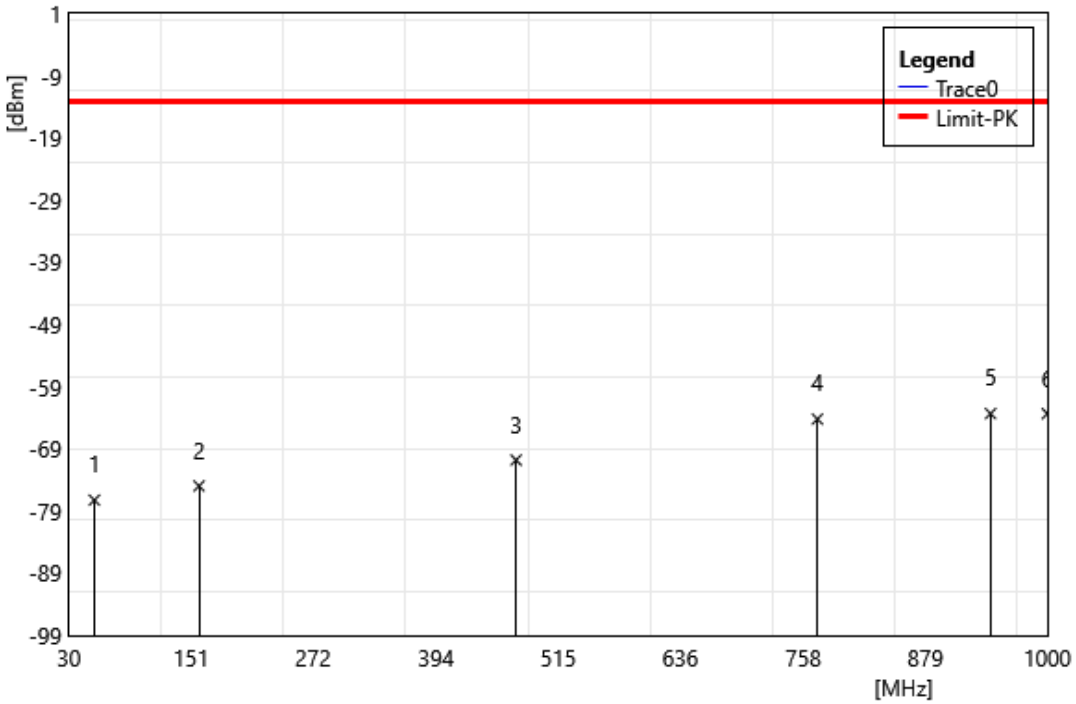
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	45.52	-64.84	-11.75	-76.59	-13.00	-63.59	PEAK
2	150.28	-63.62	-11.86	-75.48	-13.00	-62.48	PEAK
3	502.39	-63.67	-6.95	-70.62	-13.00	-57.62	PEAK
4	724.52	-62.66	-3.04	-65.71	-13.00	-52.71	PEAK
5	943.74	-63.41	0.11	-63.30	-13.00	-50.30	PEAK
6	967.99	-63.35	-0.33	-63.68	-13.00	-50.68	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n38 SA 30k QPSK BW:40M		
	2600 MHz		
Polarization:	Horizontal		
Remark:			



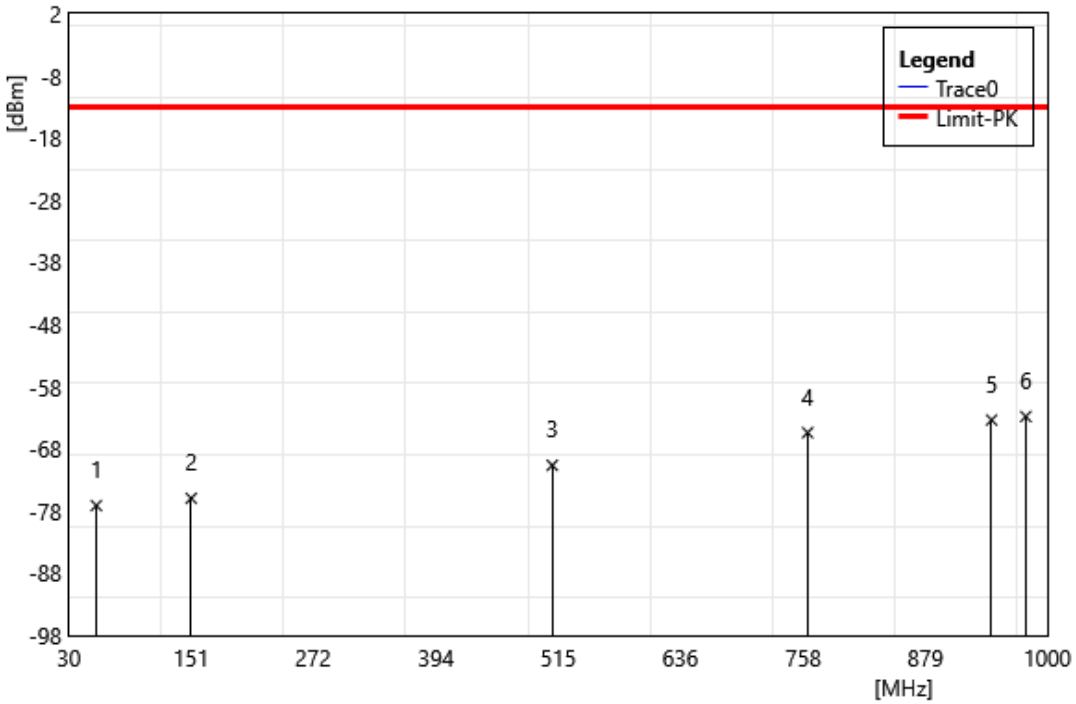
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	60.07	-63.13	-12.47	-75.60	-13.00	-62.60	PEAK
2	154.16	-63.36	-12.13	-75.49	-13.00	-62.49	PEAK
3	478.14	-62.18	-7.29	-69.47	-13.00	-56.47	PEAK
4	765.26	-62.95	-2.17	-65.12	-13.00	-52.12	PEAK
5	936.95	-63.59	-0.10	-63.69	-13.00	-50.69	PEAK
6	983.51	-62.91	-0.32	-63.23	-13.00	-50.23	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n38 SA 30k QPSK BW:40M		
	2600 MHz		
Polarization:	Vertical		
Remark:			



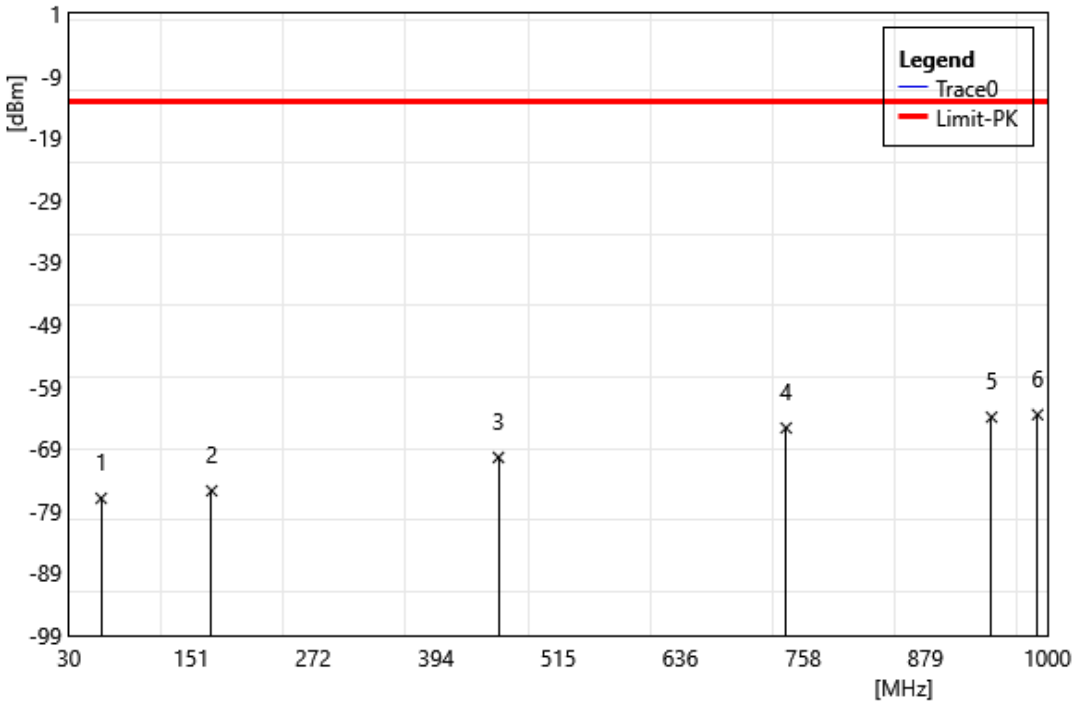
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	55.22	-64.63	-12.60	-77.23	-13.00	-64.23	PEAK
2	159.01	-63.06	-11.90	-74.96	-13.00	-61.96	PEAK
3	473.29	-63.41	-7.38	-70.79	-13.00	-57.79	PEAK
4	772.05	-62.05	-2.16	-64.21	-13.00	-51.21	PEAK
5	943.74	-63.43	0.11	-63.32	-13.00	-50.32	PEAK
6	1000.00	-63.18	-0.16	-63.34	-13.00	-50.34	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n41 SA 30k QPSK		
	BW:100M 2546.01 MHz		
Polarization:	Horizontal		
Remark:			



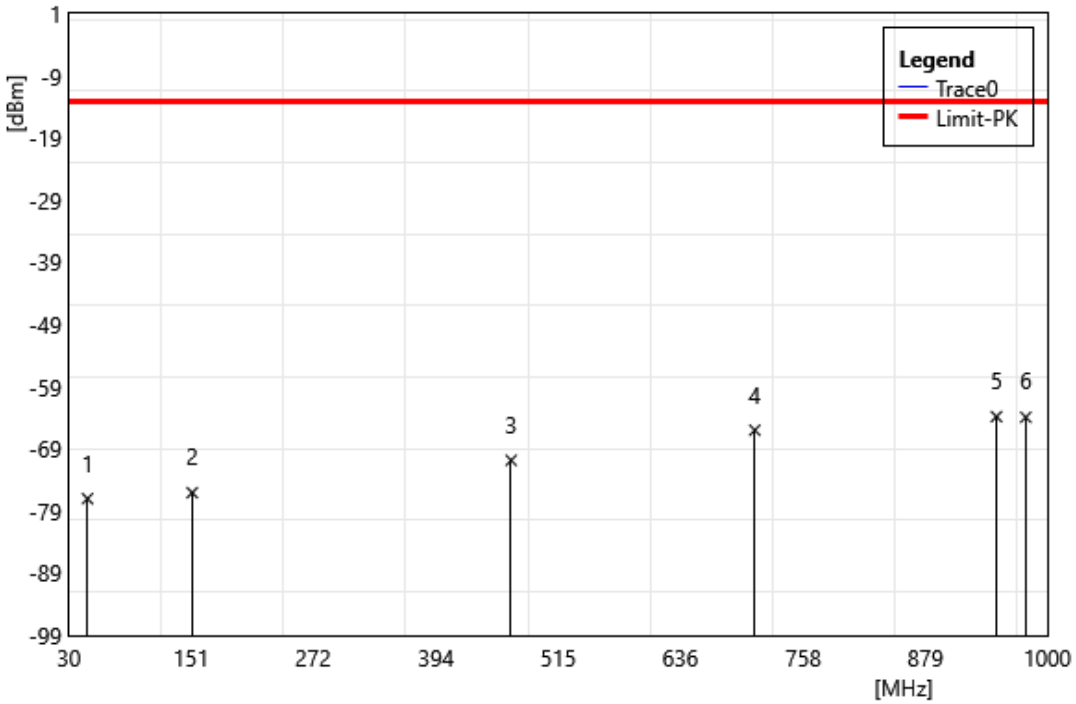
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	57.16	-64.73	-12.39	-77.12	-13.00	-64.12	PEAK
2	151.25	-63.98	-11.97	-75.95	-13.00	-62.95	PEAK
3	509.18	-63.88	-6.76	-70.64	-13.00	-57.64	PEAK
4	762.35	-63.18	-2.21	-65.39	-13.00	-52.39	PEAK
5	944.71	-63.51	0.15	-63.36	-13.00	-50.36	PEAK
6	978.66	-62.38	-0.41	-62.79	-13.00	-49.79	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n41 SA 30k QPSK		
	BW:100M 2546.01 MHz		
Polarization:	Vertical		
Remark:			



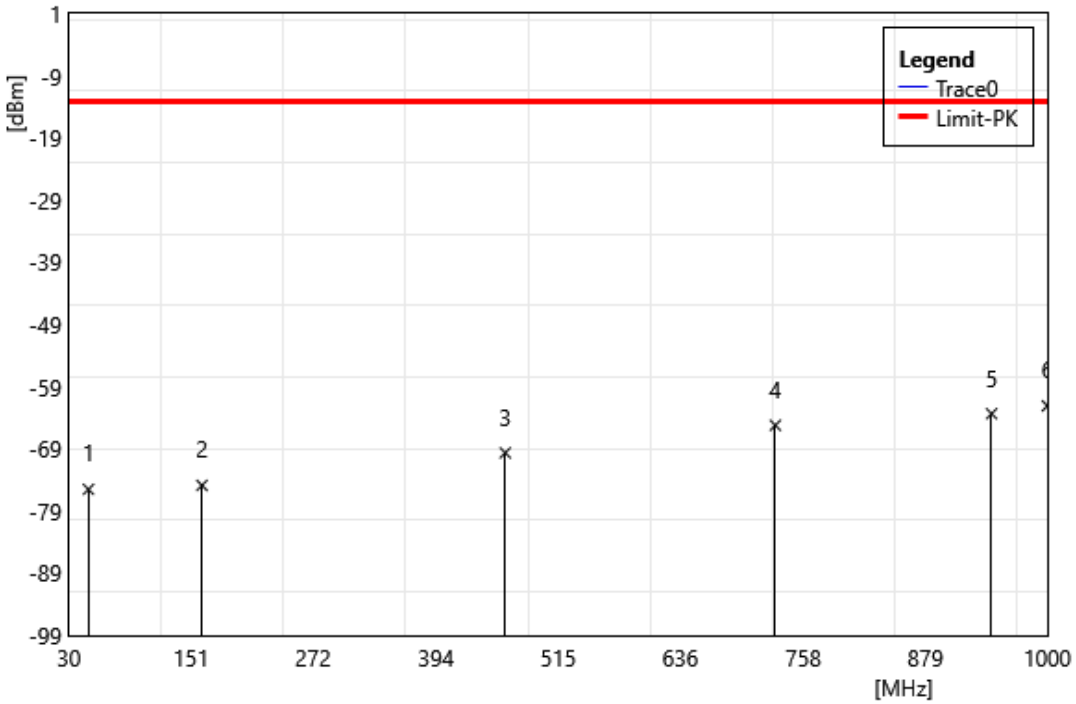
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	62.01	-63.71	-13.24	-76.95	-13.00	-63.95	PEAK
2	171.62	-63.40	-12.35	-75.75	-13.00	-62.75	PEAK
3	455.83	-62.85	-7.53	-70.38	-13.00	-57.38	PEAK
4	741.01	-62.96	-2.68	-65.64	-13.00	-52.64	PEAK
5	944.71	-64.05	0.15	-63.90	-13.00	-50.90	PEAK
6	990.30	-63.27	-0.21	-63.48	-13.00	-50.48	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n41 SA 30k QPSK		
	BW:100M 2592.99 MHz		
Polarization:	Horizontal		
Remark:			



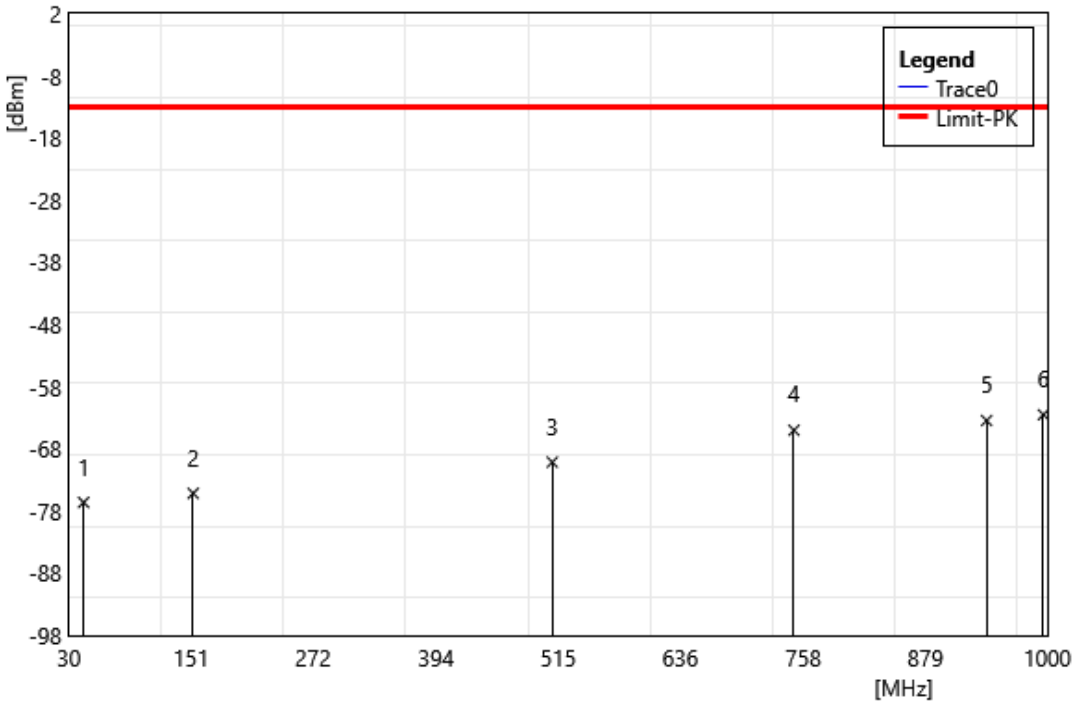
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	48.43	-65.08	-11.93	-77.01	-13.00	-64.01	PEAK
2	152.22	-64.00	-12.04	-76.05	-13.00	-63.05	PEAK
3	468.44	-63.42	-7.42	-70.84	-13.00	-57.84	PEAK
4	709.97	-62.76	-3.24	-66.00	-13.00	-53.00	PEAK
5	949.56	-63.98	0.17	-63.81	-13.00	-50.81	PEAK
6	978.66	-63.50	-0.41	-63.91	-13.00	-50.91	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n41 SA 30k QPSK		
	BW:100M 2592.99 MHz		
Polarization:	Vertical		
Remark:			



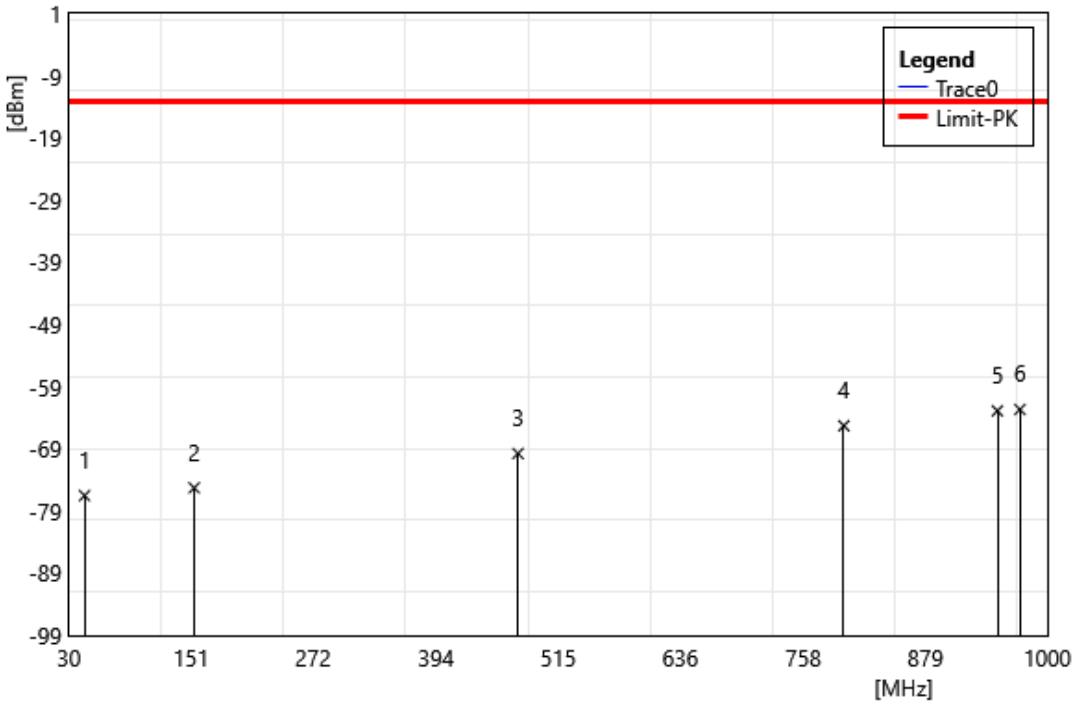
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	49.40	-63.38	-12.11	-75.49	-13.00	-62.49	PEAK
2	161.92	-62.87	-12.00	-74.87	-13.00	-61.87	PEAK
3	462.62	-62.24	-7.40	-69.64	-13.00	-56.64	PEAK
4	730.34	-62.27	-2.93	-65.20	-13.00	-52.20	PEAK
5	944.71	-63.49	0.15	-63.34	-13.00	-50.34	PEAK
6	1000.00	-61.92	-0.16	-62.08	-13.00	-49.08	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n41 SA 30k QPSK		
	BW:100M 2640 MHz		
Polarization:	Horizontal		
Remark:			



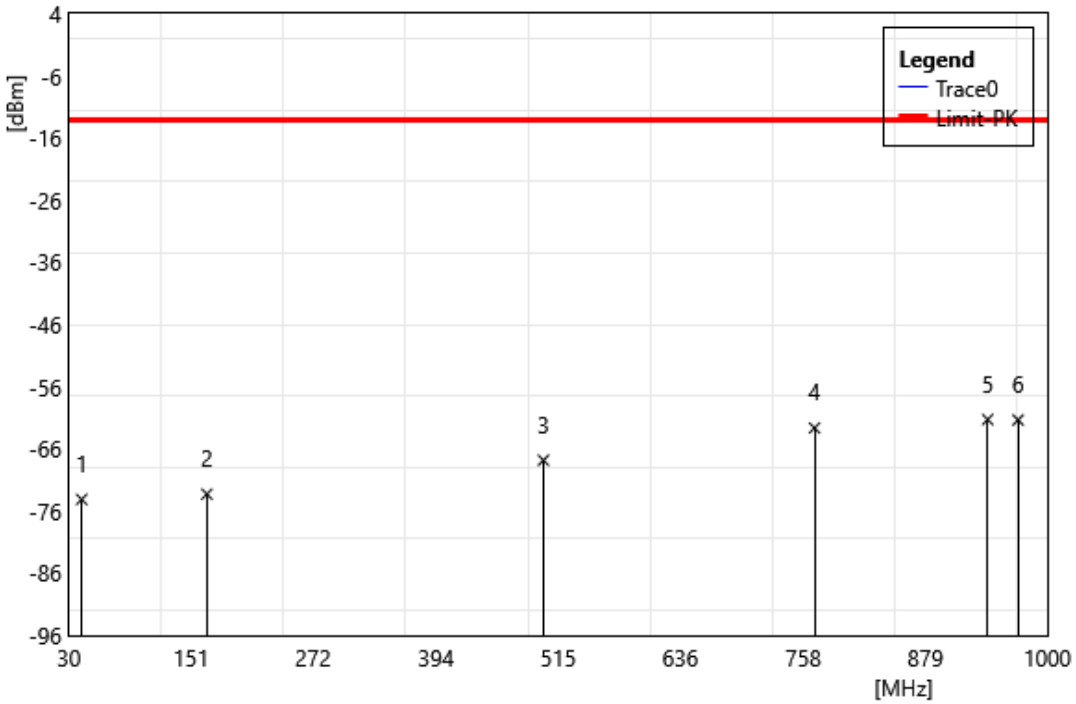
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	44.55	-64.66	-11.95	-76.61	-13.00	-63.61	PEAK
2	153.19	-62.95	-12.20	-75.15	-13.00	-62.15	PEAK
3	509.18	-63.37	-6.76	-70.13	-13.00	-57.13	PEAK
4	748.77	-62.55	-2.44	-64.99	-13.00	-51.99	PEAK
5	939.86	-63.40	-0.03	-63.44	-13.00	-50.44	PEAK
6	996.12	-62.27	-0.23	-62.50	-13.00	-49.50	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n41 SA 30k QPSK		
	BW:100M 2640 MHz		
Polarization:	Vertical		
Remark:			



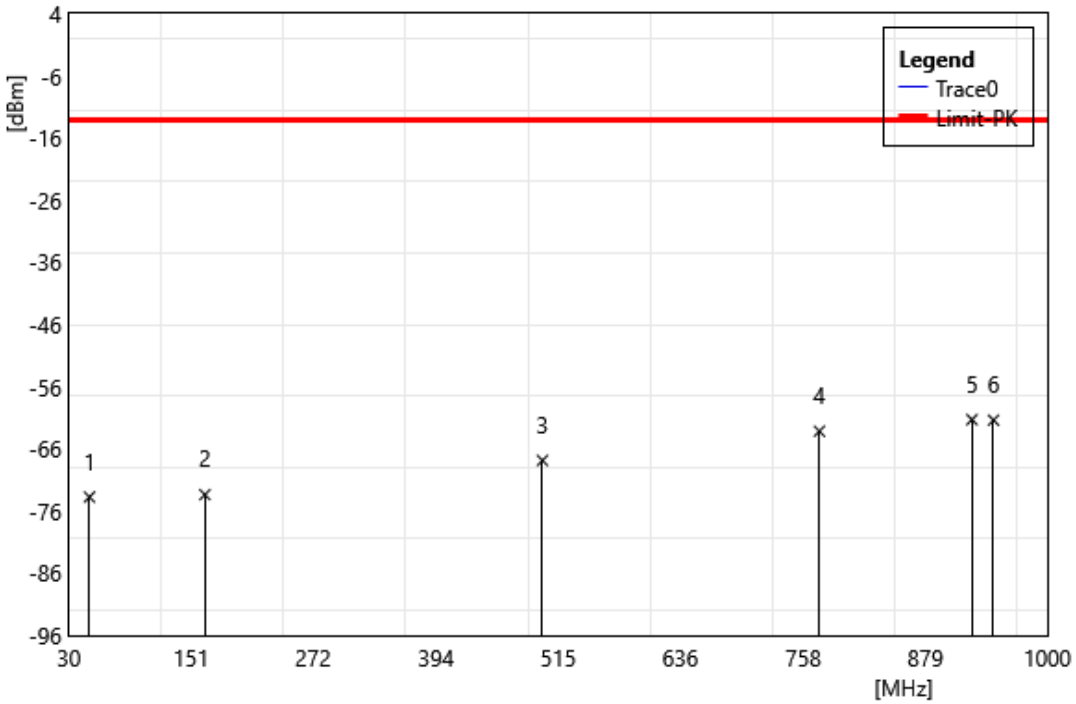
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	45.52	-64.76	-11.75	-76.51	-13.00	-63.51	PEAK
2	154.16	-63.12	-12.13	-75.25	-13.00	-62.25	PEAK
3	475.23	-62.40	-7.35	-69.75	-13.00	-56.75	PEAK
4	798.24	-63.09	-2.19	-65.28	-13.00	-52.28	PEAK
5	950.53	-63.04	0.16	-62.88	-13.00	-49.88	PEAK
6	972.84	-62.16	-0.50	-62.66	-13.00	-49.66	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n66 SA 15k QPSK BW:20M		
	1730 MHz		
Polarization:	Horizontal		
Remark:			



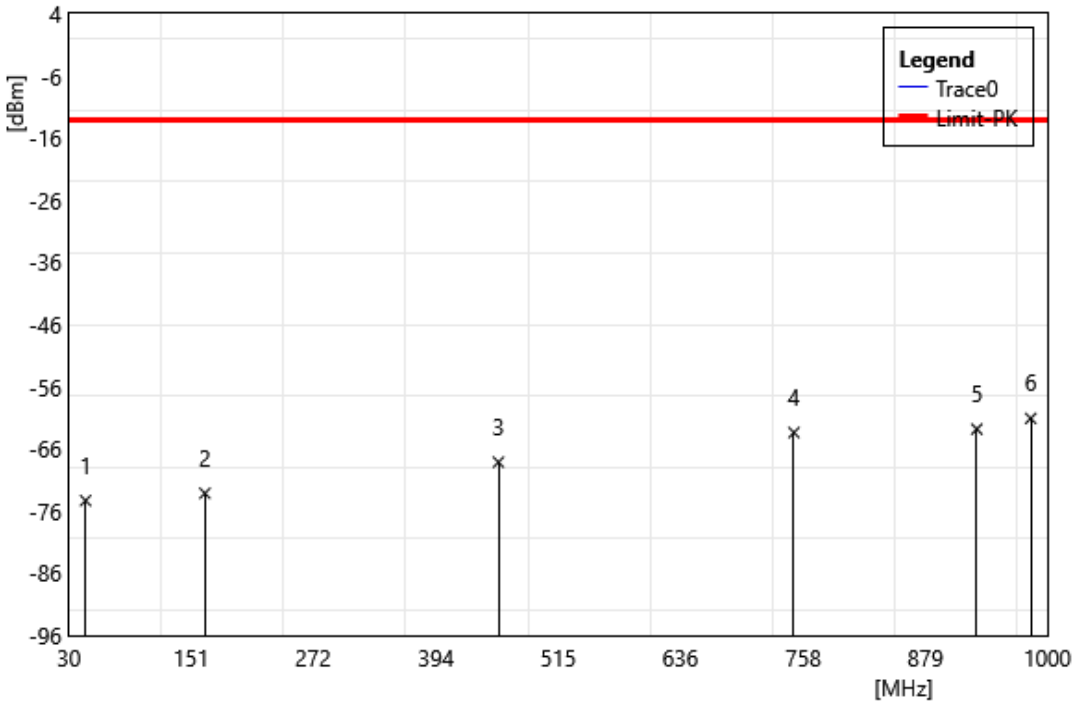
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	42.61	-62.34	-11.79	-74.13	-13.00	-61.13	PEAK
2	166.77	-61.23	-12.05	-73.28	-13.00	-60.28	PEAK
3	500.45	-60.80	-7.03	-67.83	-13.00	-54.83	PEAK
4	769.14	-60.44	-2.19	-62.64	-13.00	-49.64	PEAK
5	940.83	-61.28	0.00	-61.28	-13.00	-48.28	PEAK
6	970.90	-60.90	-0.45	-61.35	-13.00	-48.35	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n66 SA 15k QPSK BW:20M		
	1730 MHz		
Polarization:	Vertical		
Remark:			



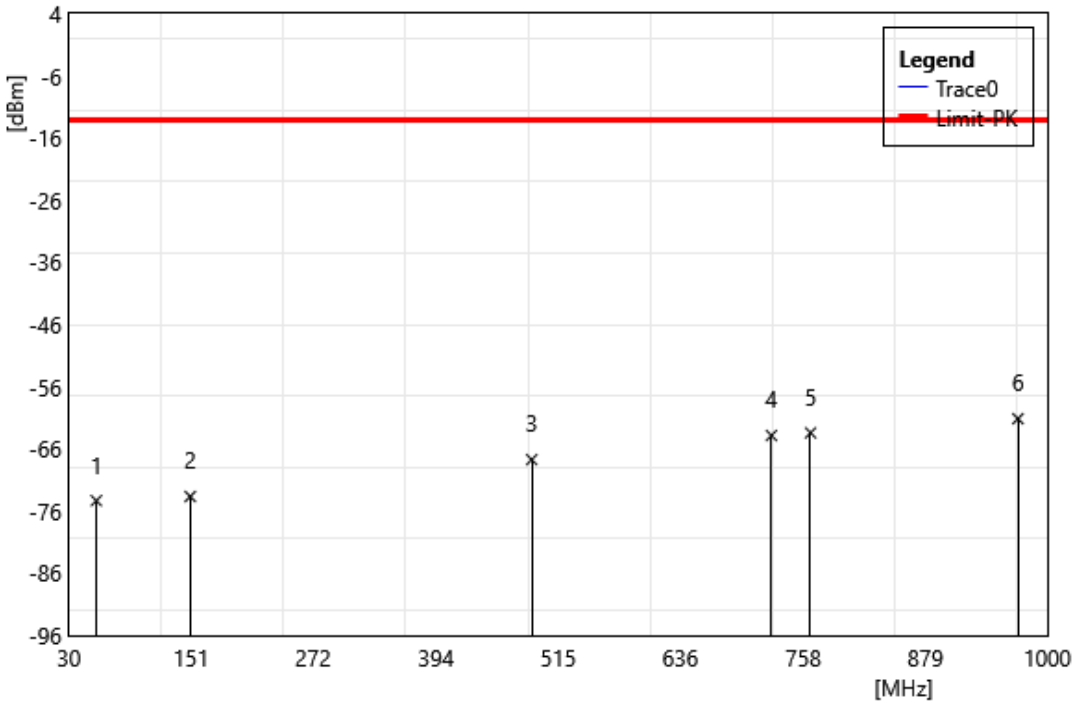
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	50.37	-61.57	-12.17	-73.74	-13.00	-60.74	PEAK
2	164.83	-61.37	-11.99	-73.36	-13.00	-60.36	PEAK
3	499.48	-60.80	-7.05	-67.85	-13.00	-54.85	PEAK
4	773.99	-61.02	-2.13	-63.15	-13.00	-50.15	PEAK
5	925.31	-60.96	-0.33	-61.29	-13.00	-48.29	PEAK
6	946.65	-61.55	0.17	-61.38	-13.00	-48.38	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n66 SA 15k QPSK BW:20M		
	1745 MHz		
Polarization:	Horizontal		
Remark:			



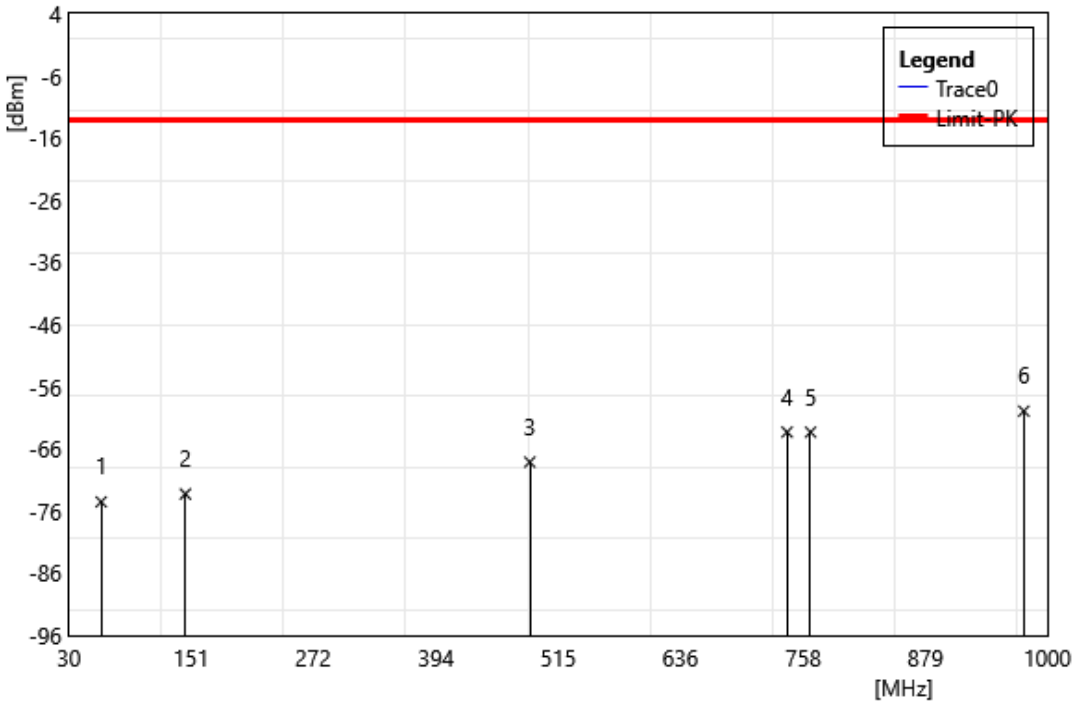
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	46.49	-62.38	-11.95	-74.33	-13.00	-61.33	PEAK
2	164.83	-61.14	-11.99	-73.13	-13.00	-60.13	PEAK
3	455.83	-60.60	-7.53	-68.13	-13.00	-55.13	PEAK
4	748.77	-60.93	-2.44	-63.37	-13.00	-50.37	PEAK
5	930.16	-62.59	-0.23	-62.82	-13.00	-49.82	PEAK
6	983.51	-60.77	-0.32	-61.09	-13.00	-48.09	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n66 SA 15k QPSK BW:20M		
	1745 MHz		
Polarization:	Vertical		
Remark:			



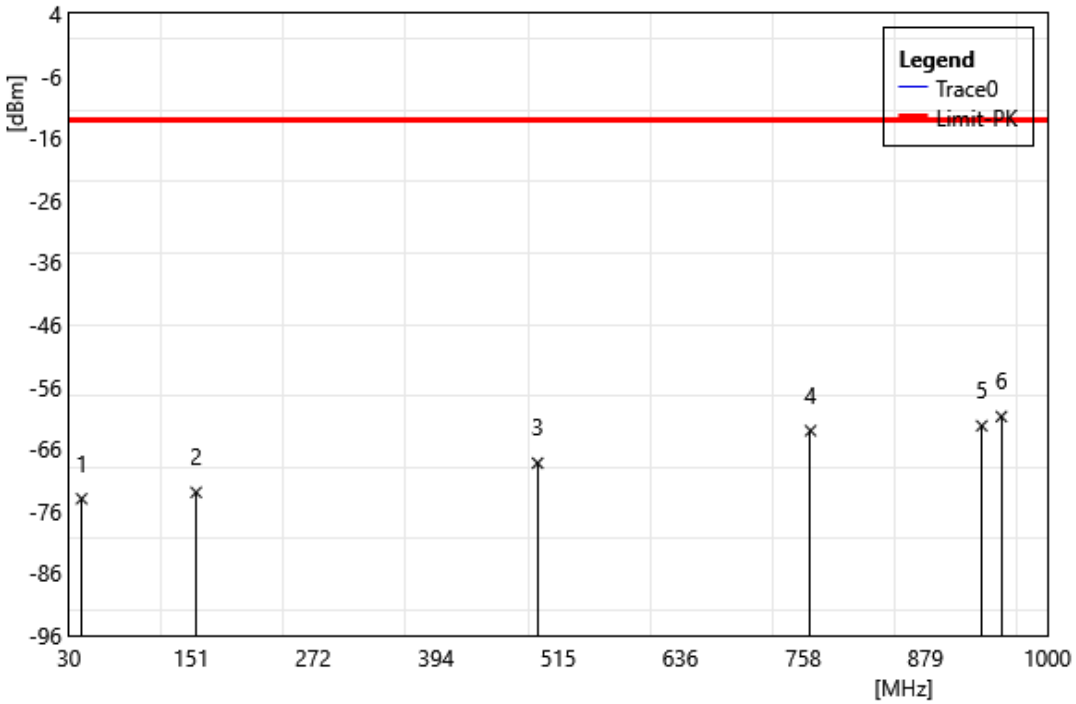
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	57.16	-61.93	-12.39	-74.32	-13.00	-61.32	PEAK
2	150.28	-61.80	-11.86	-73.66	-13.00	-60.66	PEAK
3	488.81	-60.65	-7.07	-67.73	-13.00	-54.73	PEAK
4	726.46	-60.86	-3.00	-63.86	-13.00	-50.86	PEAK
5	765.26	-61.25	-2.17	-63.42	-13.00	-50.42	PEAK
6	970.90	-60.69	-0.45	-61.14	-13.00	-48.14	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n66 SA 15k QPSK BW:20M		
	1760 MHz		
Polarization:	Horizontal		
Remark:			



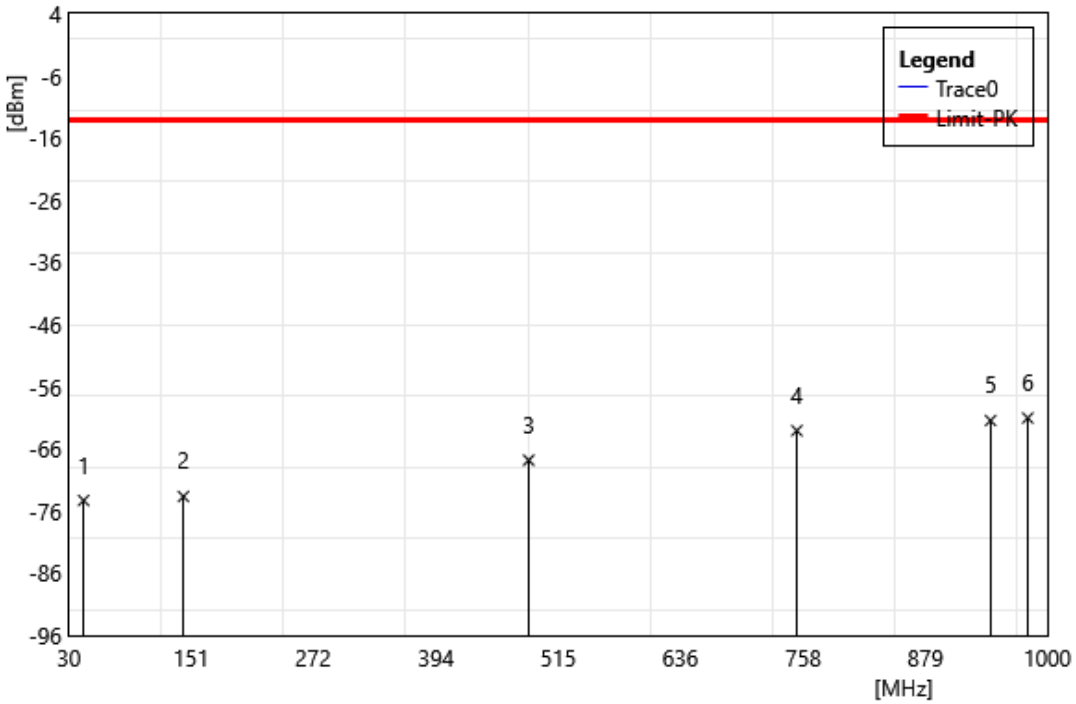
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	62.01	-61.28	-13.24	-74.52	-13.00	-61.52	PEAK
2	145.43	-61.27	-11.98	-73.26	-13.00	-60.26	PEAK
3	486.87	-61.01	-7.11	-68.12	-13.00	-55.12	PEAK
4	741.98	-60.66	-2.64	-63.30	-13.00	-50.30	PEAK
5	765.26	-61.14	-2.17	-63.31	-13.00	-50.31	PEAK
6	976.72	-59.45	-0.48	-59.93	-13.00	-46.93	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n66 SA 15k QPSK BW:20M		
	1760 MHz		
Polarization:	Vertical		
Remark:			



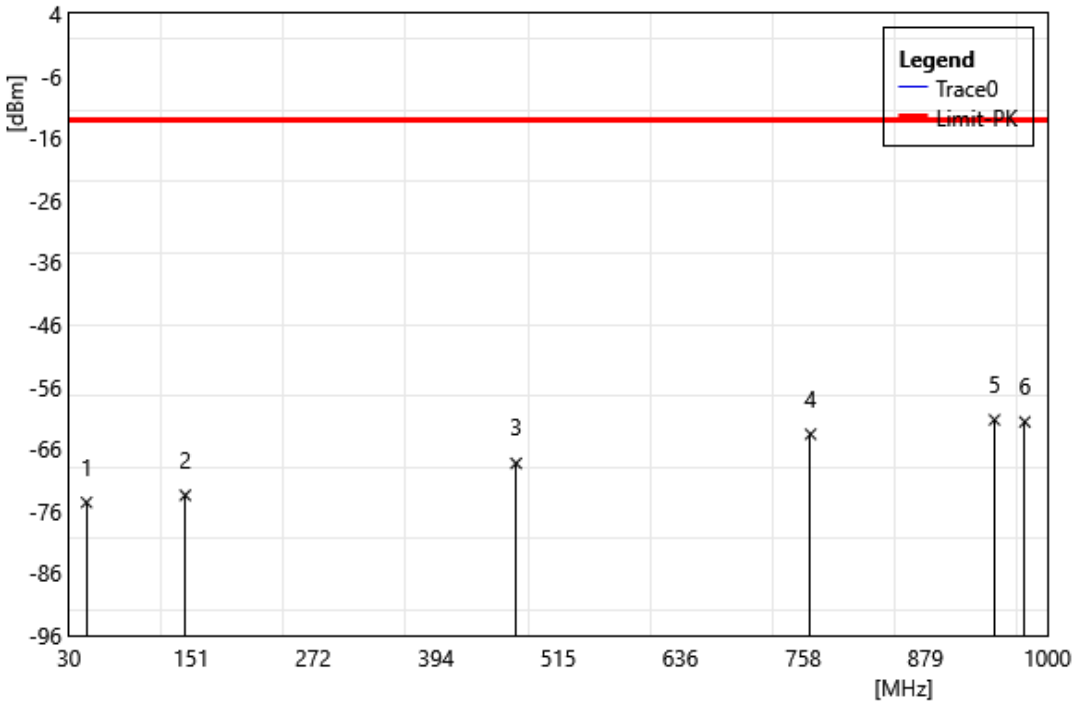
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	42.61	-62.23	-11.79	-74.02	-13.00	-61.02	PEAK
2	156.10	-60.92	-12.06	-72.99	-13.00	-59.99	PEAK
3	494.63	-61.24	-7.05	-68.29	-13.00	-55.29	PEAK
4	765.26	-60.90	-2.17	-63.07	-13.00	-50.07	PEAK
5	935.01	-62.15	-0.14	-62.29	-13.00	-49.29	PEAK
6	954.41	-60.86	0.06	-60.80	-13.00	-47.80	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n71 SA 15k QPSK BW:20M		
	673 MHz		
Polarization:	Horizontal		
Remark:			



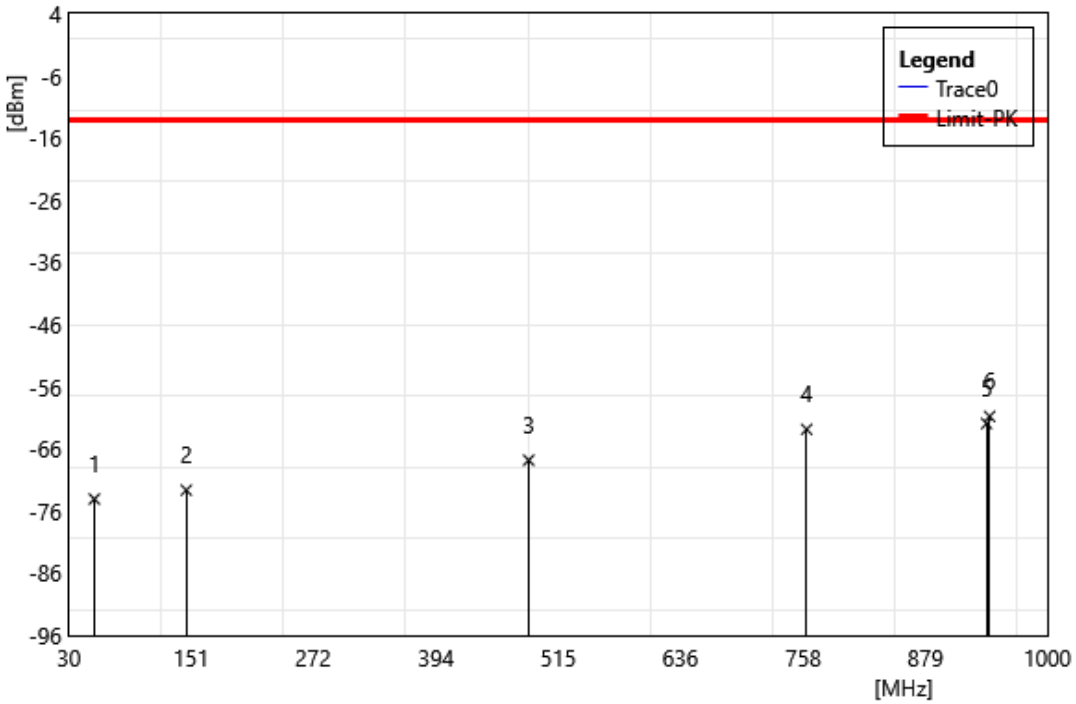
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	44.55	-62.36	-11.95	-74.31	-13.00	-61.31	PEAK
2	143.49	-61.73	-11.92	-73.65	-13.00	-60.65	PEAK
3	485.90	-60.69	-7.13	-67.82	-13.00	-54.82	PEAK
4	751.68	-60.66	-2.40	-63.06	-13.00	-50.06	PEAK
5	943.74	-61.55	0.11	-61.44	-13.00	-48.44	PEAK
6	980.60	-60.66	-0.36	-61.02	-13.00	-48.02	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n71 SA 15k QPSK BW:20M		
	673 MHz		
Polarization:	Vertical		
Remark:			



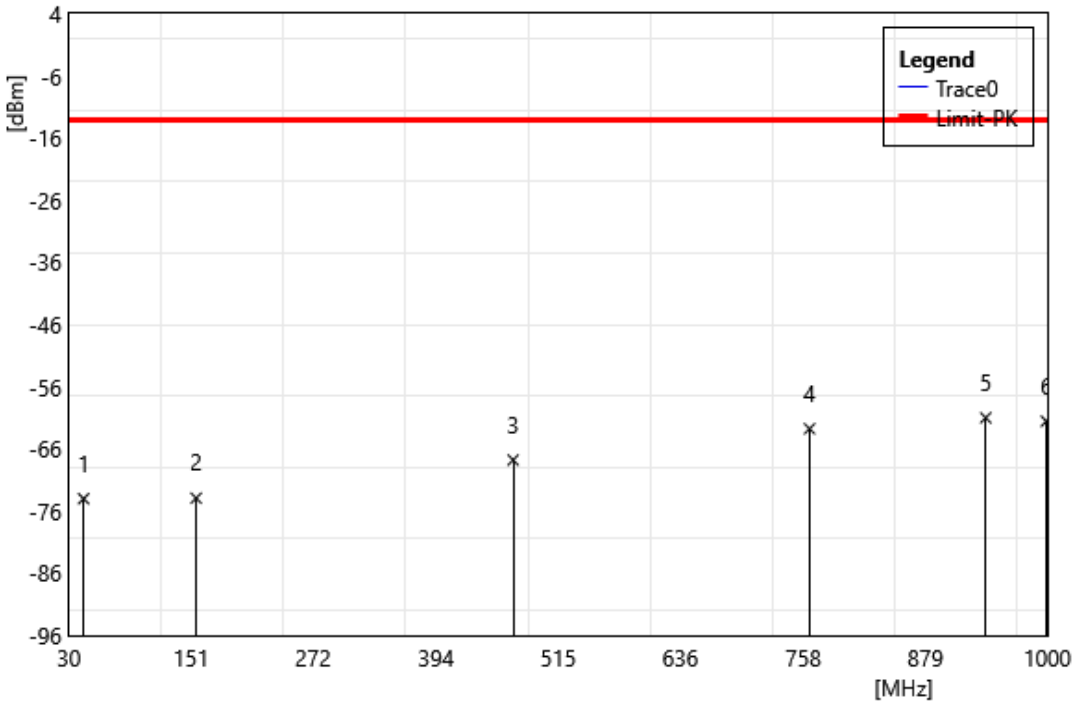
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	47.46	-62.61	-12.00	-74.61	-13.00	-61.61	PEAK
2	145.43	-61.47	-11.98	-73.46	-13.00	-60.46	PEAK
3	473.29	-60.94	-7.38	-68.33	-13.00	-55.33	PEAK
4	765.26	-61.47	-2.17	-63.64	-13.00	-50.64	PEAK
5	947.62	-61.49	0.17	-61.32	-13.00	-48.32	PEAK
6	977.69	-61.21	-0.45	-61.66	-13.00	-48.66	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n71 SA 15k QPSK BW:20M		
	680.5 MHz		
Polarization:	Horizontal		
Remark:			



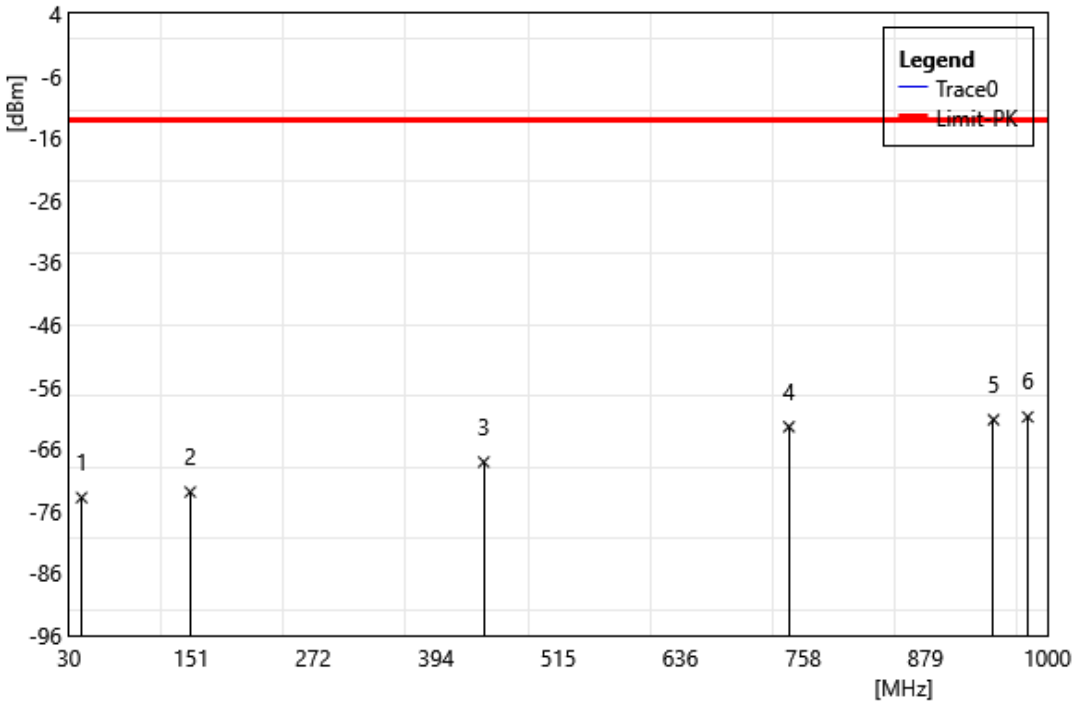
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	55.22	-61.47	-12.60	-74.07	-13.00	-61.07	PEAK
2	146.40	-60.80	-11.83	-72.63	-13.00	-59.63	PEAK
3	485.90	-60.69	-7.13	-67.82	-13.00	-54.82	PEAK
4	761.38	-60.62	-2.23	-62.85	-13.00	-49.85	PEAK
5	939.86	-61.89	-0.03	-61.92	-13.00	-48.92	PEAK
6	942.77	-60.84	0.08	-60.76	-13.00	-47.76	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n71 SA 15k QPSK BW:20M		
	680.5 MHz		
Polarization:	Vertical		
Remark:			



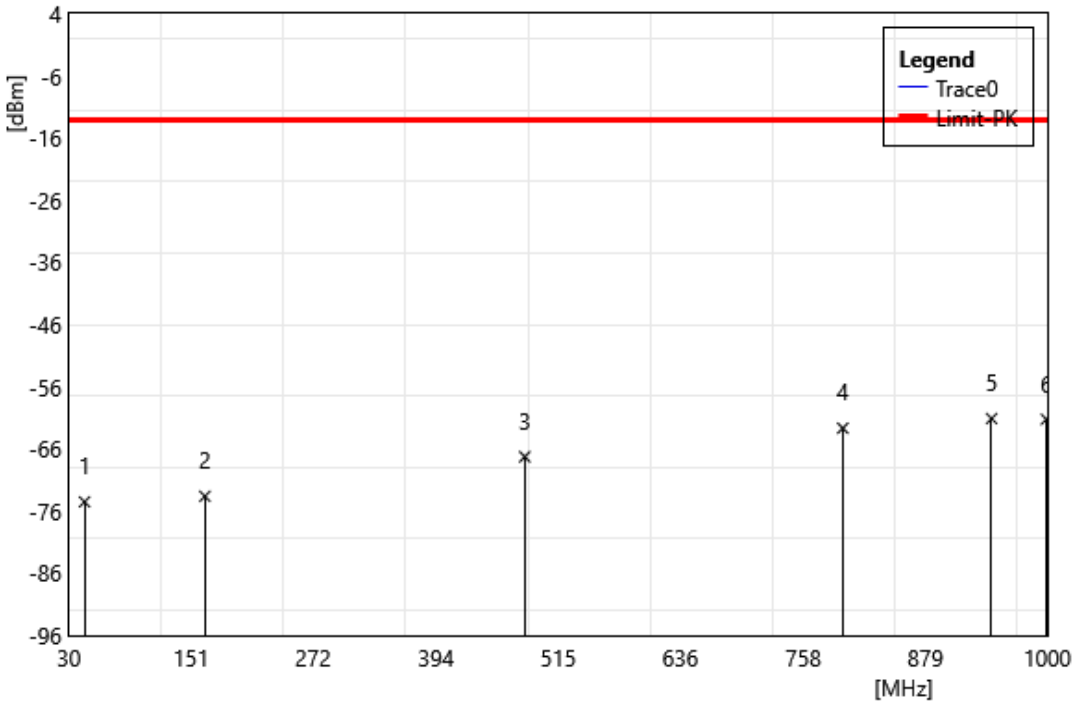
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	44.55	-62.06	-11.95	-74.01	-13.00	-61.01	PEAK
2	156.10	-61.86	-12.06	-73.92	-13.00	-60.92	PEAK
3	470.38	-60.35	-7.44	-67.79	-13.00	-54.79	PEAK
4	764.29	-60.58	-2.18	-62.76	-13.00	-49.76	PEAK
5	938.89	-60.95	-0.05	-61.00	-13.00	-48.00	PEAK
6	999.03	-61.37	-0.18	-61.55	-13.00	-48.55	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n71 SA 15k QPSK BW:20M		
	688 MHz		
Polarization:	Horizontal		
Remark:			



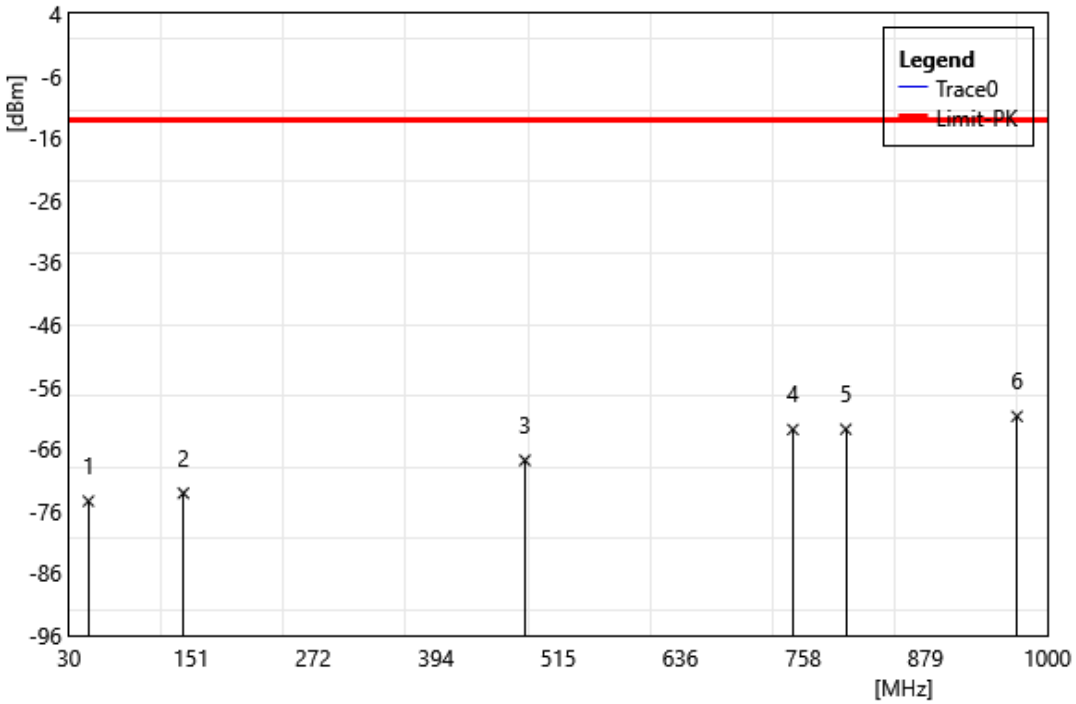
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	42.61	-62.05	-11.79	-73.84	-13.00	-60.84	PEAK
2	150.28	-61.06	-11.86	-72.92	-13.00	-59.92	PEAK
3	441.28	-60.36	-7.75	-68.11	-13.00	-55.11	PEAK
4	743.92	-59.89	-2.56	-62.45	-13.00	-49.45	PEAK
5	946.65	-61.48	0.17	-61.32	-13.00	-48.32	PEAK
6	980.60	-60.49	-0.36	-60.85	-13.00	-47.85	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n71 SA 15k QPSK BW:20M		
	688 MHz		
Polarization:	Vertical		
Remark:			



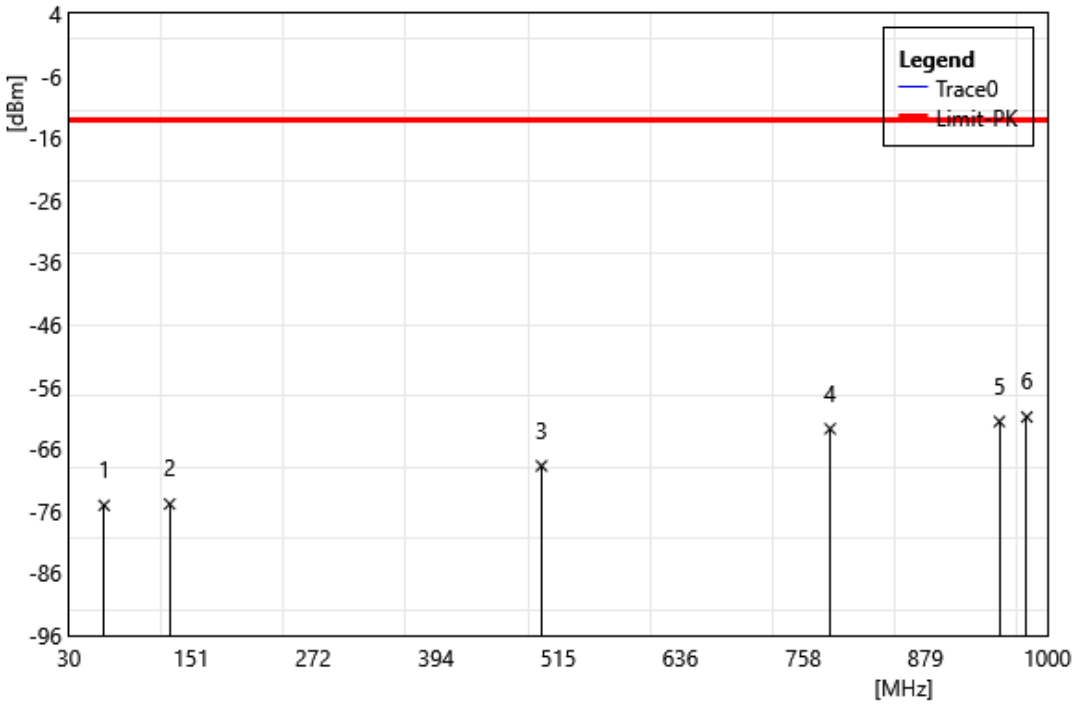
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	45.52	-62.76	-11.75	-74.51	-13.00	-61.51	PEAK
2	164.83	-61.63	-11.99	-73.62	-13.00	-60.62	PEAK
3	482.02	-60.06	-7.21	-67.27	-13.00	-54.27	PEAK
4	797.27	-60.48	-2.19	-62.67	-13.00	-49.67	PEAK
5	944.71	-61.27	0.15	-61.12	-13.00	-48.12	PEAK
6	999.03	-61.07	-0.18	-61.25	-13.00	-48.25	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n77 SA 30k QPSK		
	BW:100M 3750 MHz		
Polarization:	Horizontal		
Remark:			



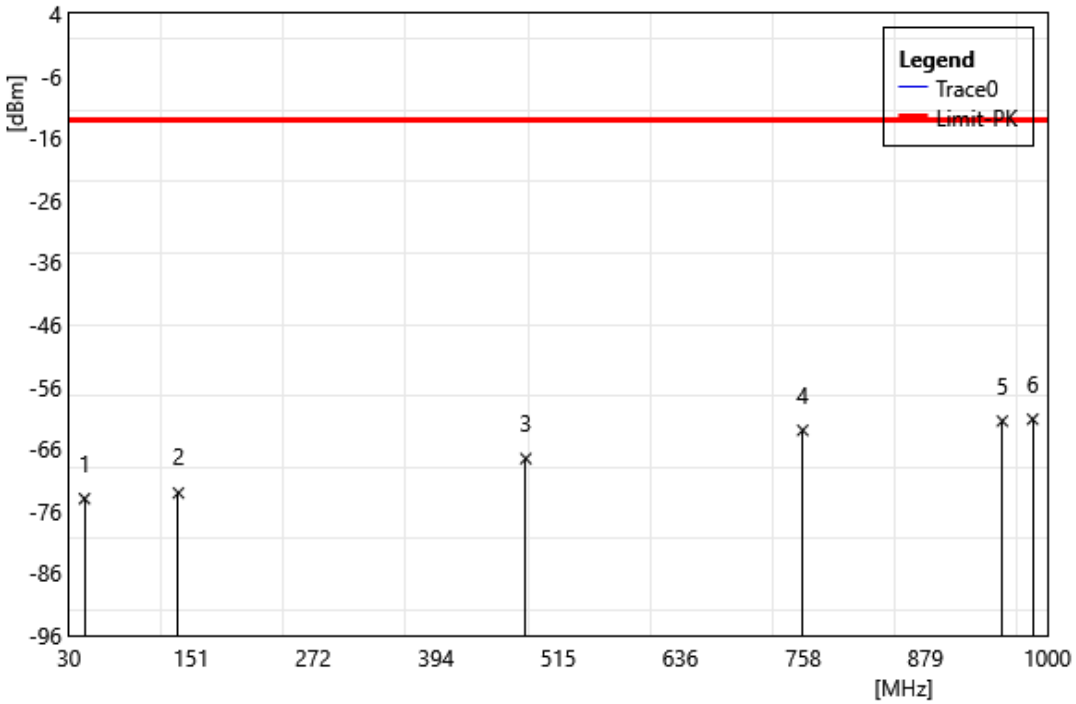
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	49.40	-62.29	-12.11	-74.40	-13.00	-61.40	PEAK
2	143.49	-61.20	-11.92	-73.12	-13.00	-60.12	PEAK
3	482.02	-60.63	-7.21	-67.84	-13.00	-54.84	PEAK
4	747.80	-60.42	-2.46	-62.88	-13.00	-49.88	PEAK
5	800.18	-60.63	-2.20	-62.83	-13.00	-49.83	PEAK
6	969.93	-60.33	-0.43	-60.76	-13.00	-47.76	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n77 SA 30k QPSK		
	BW:100M 3750 MHz		
Polarization:	Vertical		
Remark:			



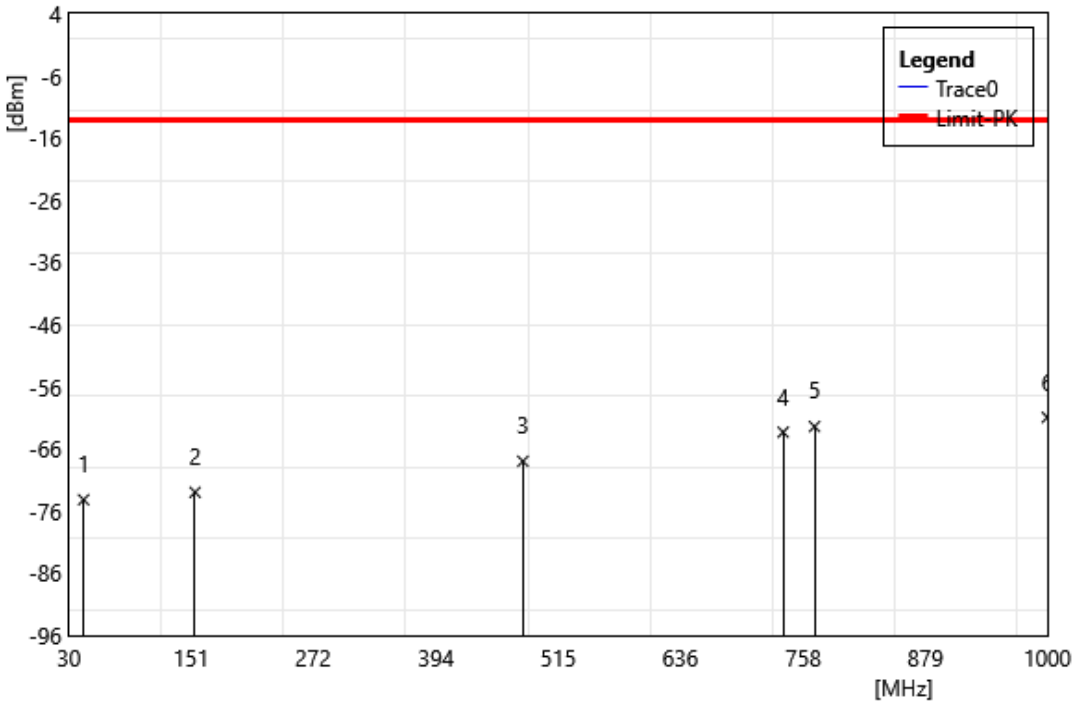
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	64.92	-61.36	-13.72	-75.08	-13.00	-62.08	PEAK
2	129.91	-61.46	-13.40	-74.86	-13.00	-61.86	PEAK
3	498.51	-61.68	-7.05	-68.73	-13.00	-55.73	PEAK
4	784.66	-60.62	-2.14	-62.76	-13.00	-49.76	PEAK
5	952.47	-61.71	0.11	-61.60	-13.00	-48.60	PEAK
6	979.63	-60.50	-0.37	-60.87	-13.00	-47.87	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n77 SA 30k QPSK		
	BW:100M 3858 MHz		
Polarization:	Horizontal		
Remark:			



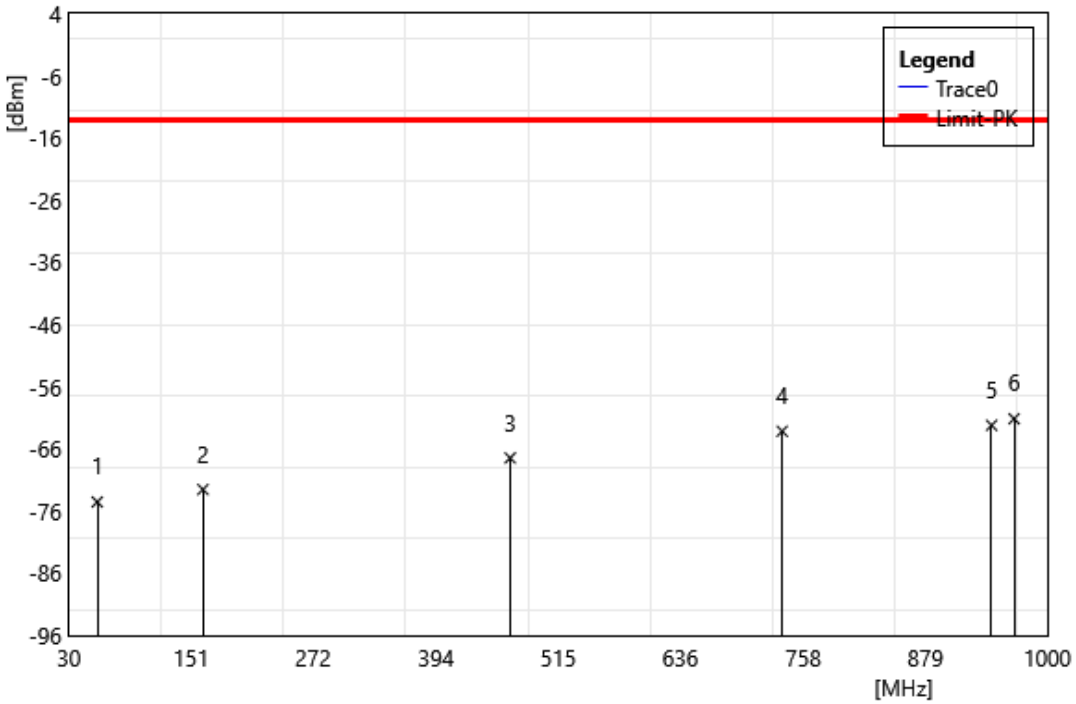
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	45.52	-62.27	-11.75	-74.02	-13.00	-61.02	PEAK
2	138.64	-60.60	-12.50	-73.10	-13.00	-60.10	PEAK
3	482.99	-60.38	-7.19	-67.57	-13.00	-54.57	PEAK
4	757.50	-60.72	-2.30	-63.02	-13.00	-50.02	PEAK
5	955.38	-61.57	0.04	-61.53	-13.00	-48.53	PEAK
6	985.45	-60.95	-0.28	-61.23	-13.00	-48.23	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n77 SA 30k QPSK		
	BW:100M 3858 MHz		
Polarization:	Vertical		
Remark:			



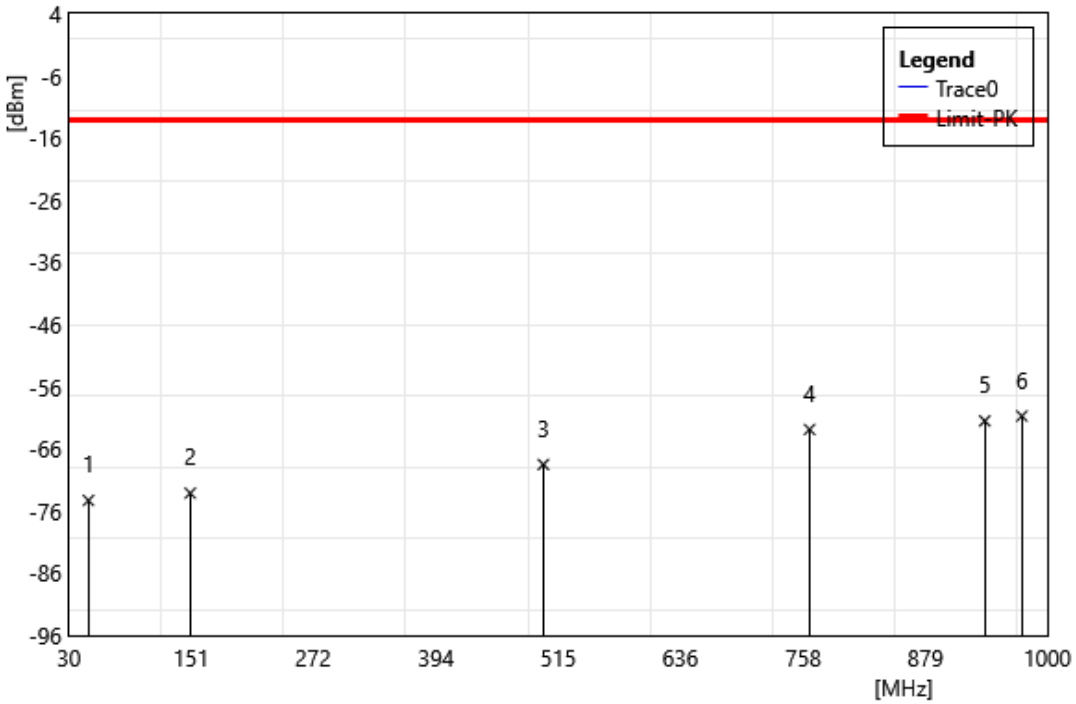
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	44.55	-62.22	-11.95	-74.17	-13.00	-61.17	PEAK
2	155.13	-60.99	-11.99	-72.98	-13.00	-59.98	PEAK
3	480.08	-60.72	-7.25	-67.98	-13.00	-54.98	PEAK
4	738.10	-60.52	-2.80	-63.32	-13.00	-50.32	PEAK
5	769.14	-60.21	-2.19	-62.40	-13.00	-49.40	PEAK
6	1000.00	-60.77	-0.16	-60.93	-13.00	-47.93	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n77 SA 30k QPSK		
	BW:100M 3930 MHz		
Polarization:	Horizontal		
Remark:			



ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	58.13	-61.86	-12.67	-74.54	-13.00	-61.54	PEAK
2	162.89	-60.57	-11.97	-72.54	-13.00	-59.54	PEAK
3	467.47	-60.06	-7.40	-67.46	-13.00	-54.46	PEAK
4	737.13	-60.32	-2.84	-63.17	-13.00	-50.17	PEAK
5	944.71	-62.36	0.15	-62.21	-13.00	-49.21	PEAK
6	967.02	-60.87	-0.28	-61.15	-13.00	-48.15	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n77 SA 30k QPSK		
	BW:100M 3930 MHz		
Polarization:	Vertical		
Remark:			

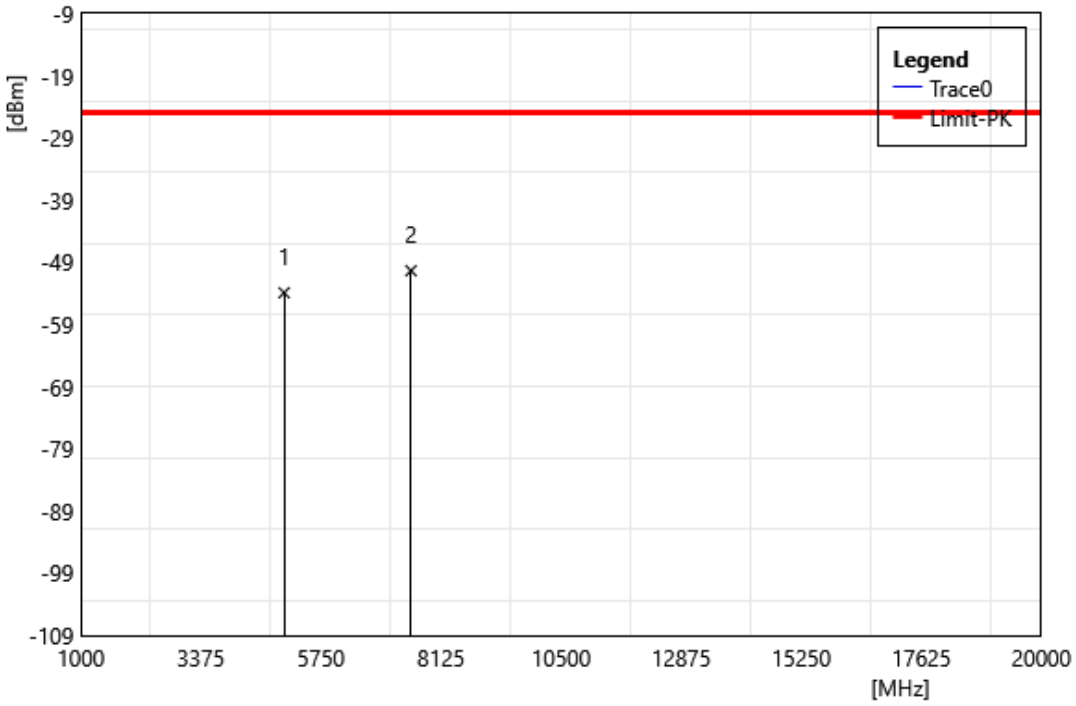


ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	49.40	-62.17	-12.11	-74.28	-13.00	-61.28	PEAK
2	150.28	-61.25	-11.86	-73.11	-13.00	-60.11	PEAK
3	500.45	-61.48	-7.03	-68.51	-13.00	-55.51	PEAK
4	764.29	-60.70	-2.18	-62.88	-13.00	-49.88	PEAK
5	937.92	-61.43	-0.07	-61.50	-13.00	-48.50	PEAK
6	974.78	-60.17	-0.54	-60.71	-13.00	-47.71	PEAK

Harmonic

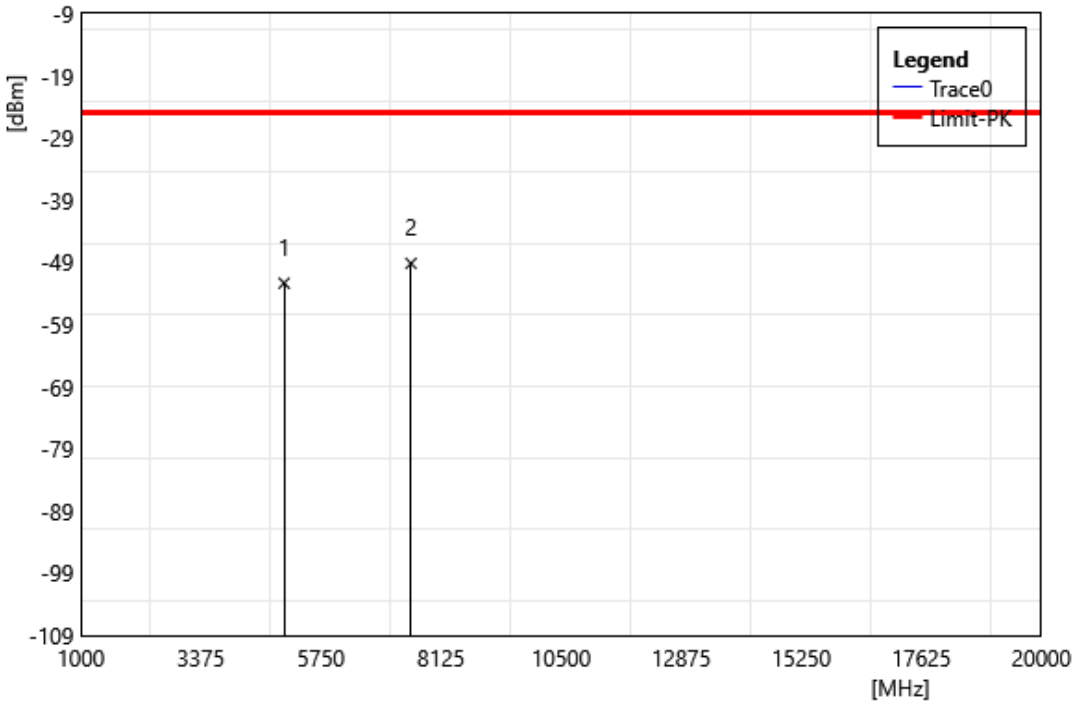
Above 1 GHz

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n7 SA 15k QPSK BW:20M		
	2510 MHz		
Polarization:	Horizontal		
Remark:			



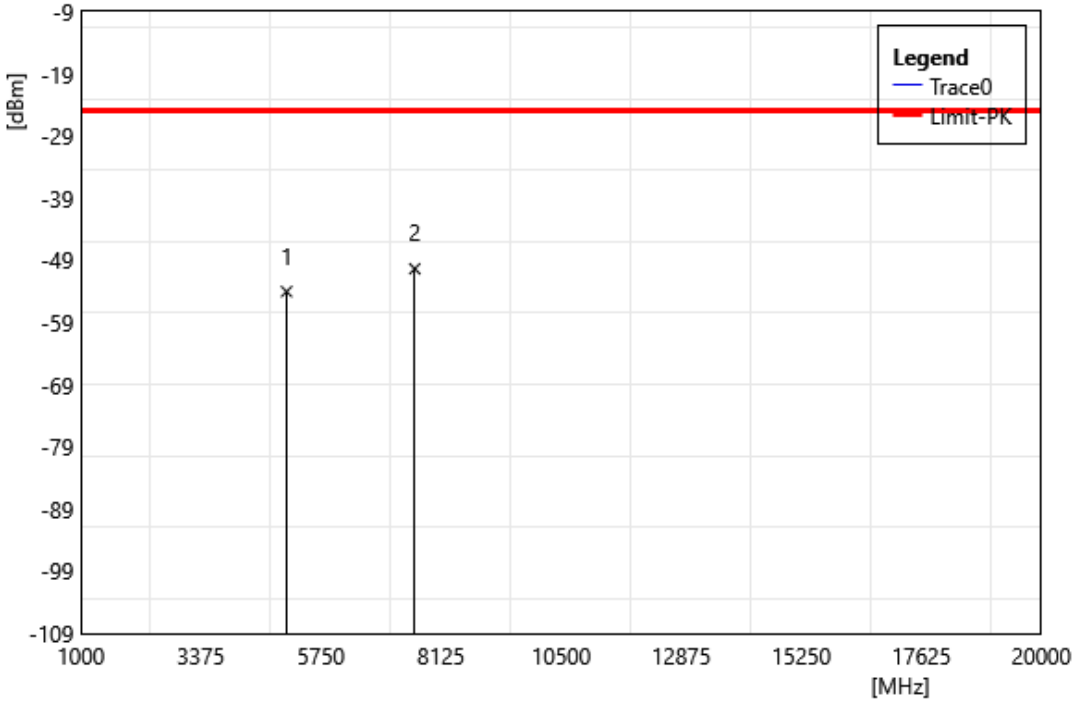
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5020.00	-55.44	1.55	-53.89	-13.00	-40.89	PEAK
2	7530.00	-57.11	6.77	-50.34	-13.00	-37.34	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n7 SA 15k QPSK BW:20M		
	2510 MHz		
Polarization:	Vertical		
Remark:			



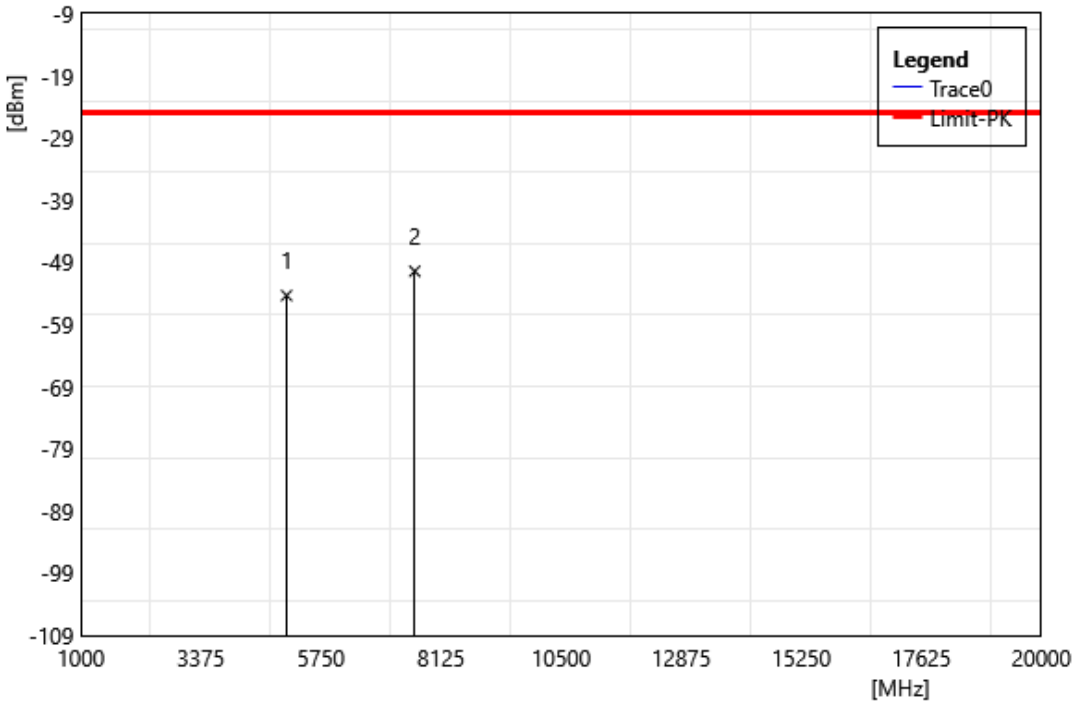
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5020.00	-53.90	1.55	-52.35	-13.00	-39.35	PEAK
2	7530.00	-55.93	6.77	-49.16	-13.00	-36.16	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n7 SA 15k QPSK BW:20M		
	2535 MHz		
Polarization:	Horizontal		
Remark:			



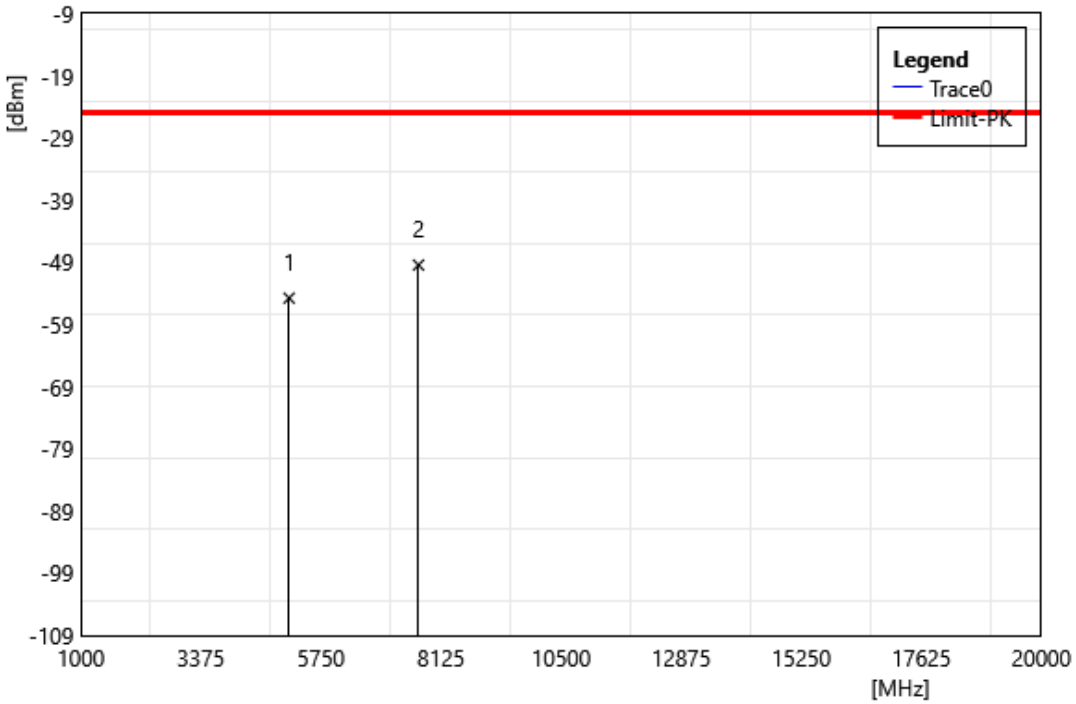
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5070.00	-55.70	1.68	-54.02	-13.00	-41.02	PEAK
2	7605.00	-57.11	6.75	-50.36	-13.00	-37.36	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n7 SA 15k QPSK BW:20M		
	2535 MHz		
Polarization:	Vertical		
Remark:			



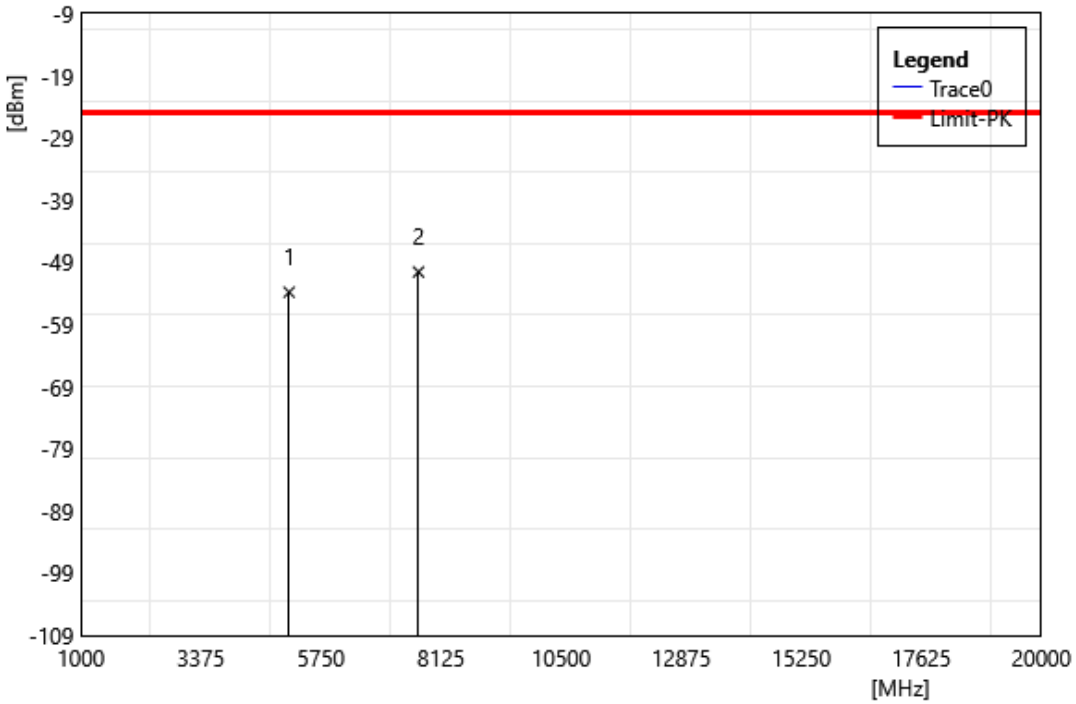
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5070.00	-56.01	1.68	-54.33	-13.00	-41.33	PEAK
2	7605.00	-57.18	6.75	-50.43	-13.00	-37.43	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n7 SA 15k QPSK BW:20M		
	2560 MHz		
Polarization:	Horizontal		
Remark:			



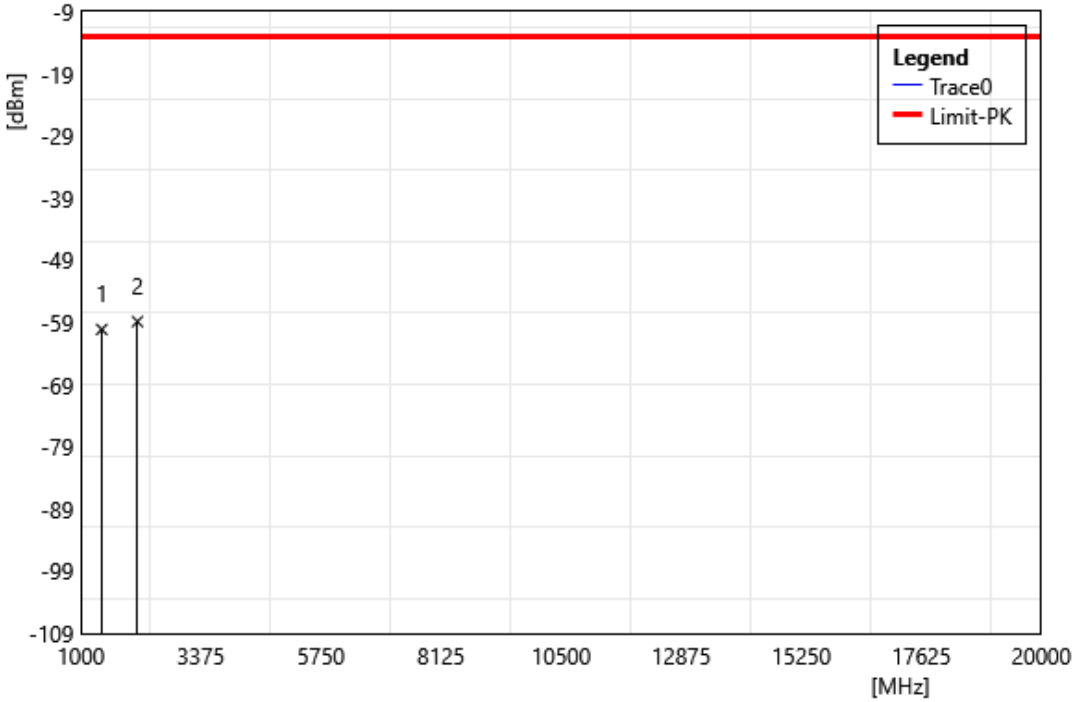
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5120.00	-56.44	1.69	-54.75	-13.00	-41.75	PEAK
2	7680.00	-56.27	6.84	-49.43	-13.00	-36.43	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n7 SA 15k QPSK BW:20M		
	2560 MHz		
Polarization:	Vertical		
Remark:			



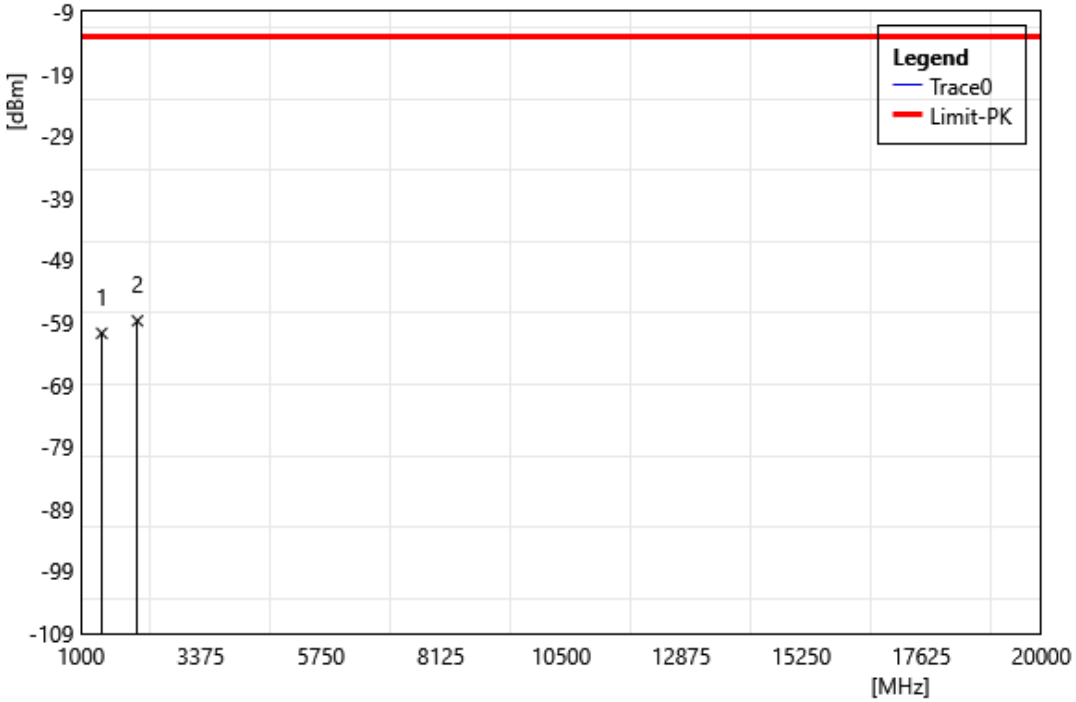
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5120.00	-55.48	1.69	-53.79	-13.00	-40.79	PEAK
2	7680.00	-57.39	6.84	-50.55	-13.00	-37.55	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n12 SA 15k QPSK BW:15M		
	706.5 MHz		
Polarization:	Horizontal		
Remark:			



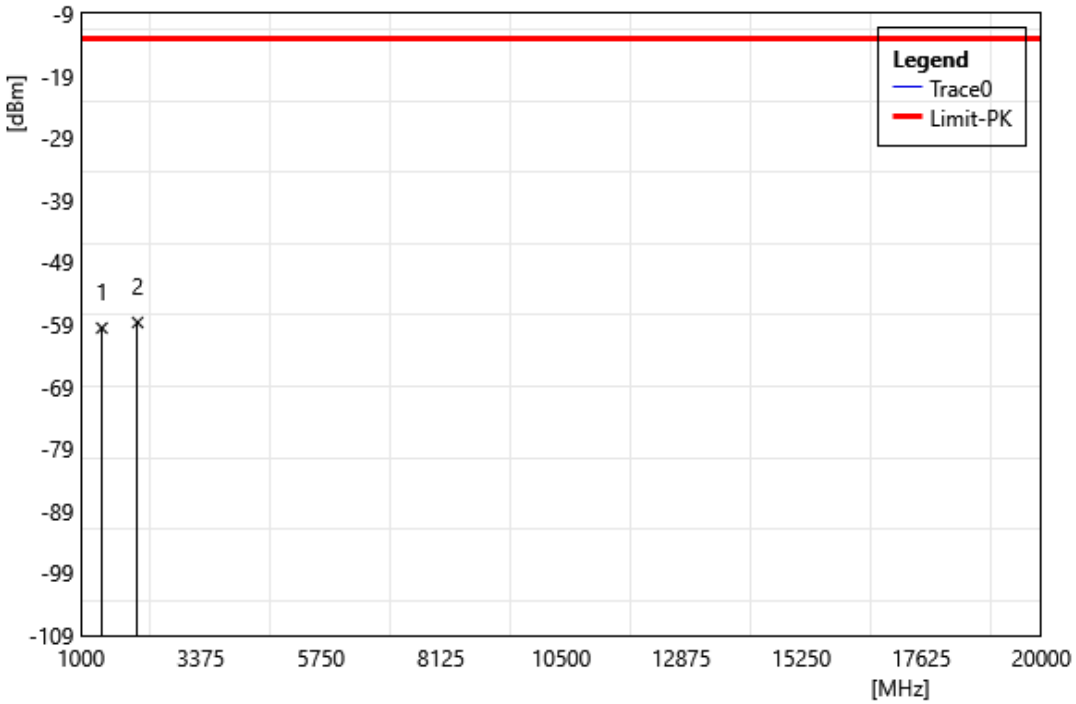
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1413.00	-53.21	-6.90	-60.11	-13.00	-47.11	PEAK
2	2119.50	-53.24	-5.62	-58.86	-13.00	-45.86	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n12 SA 15k QPSK BW:15M		
	706.5 MHz		
Polarization:	Vertical		
Remark:			



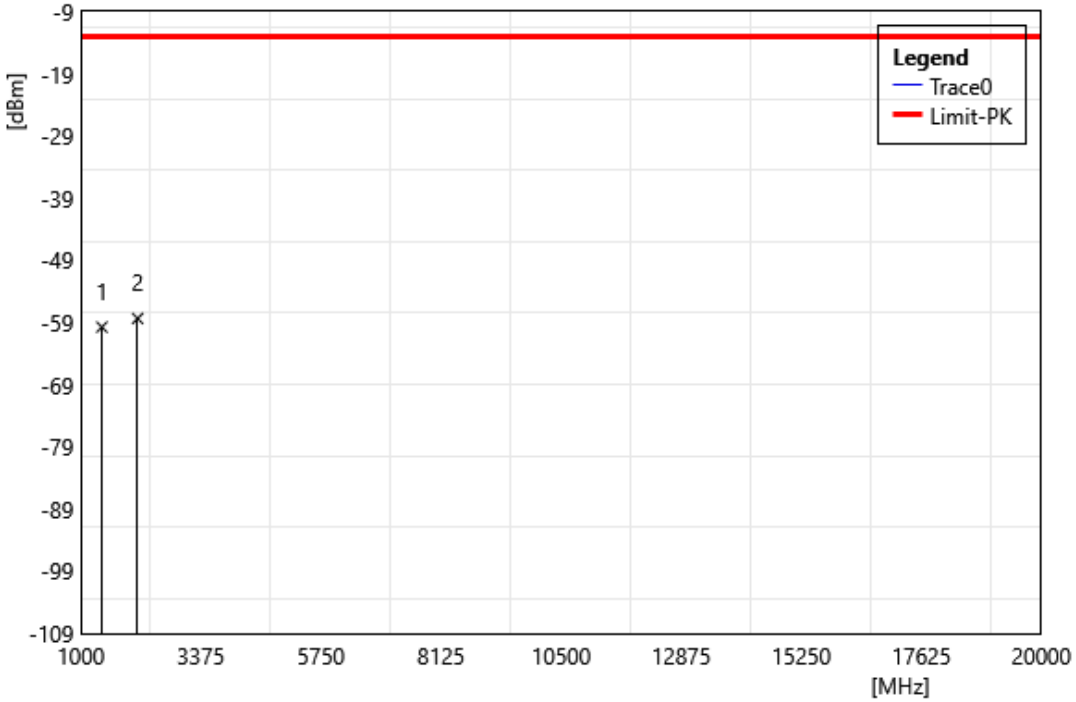
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1413.00	-53.83	-6.90	-60.73	-13.00	-47.73	PEAK
2	2119.50	-53.10	-5.62	-58.72	-13.00	-45.72	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n12 SA 15k QPSK BW:15M		
	707.5 MHz		
Polarization:	Horizontal		
Remark:			



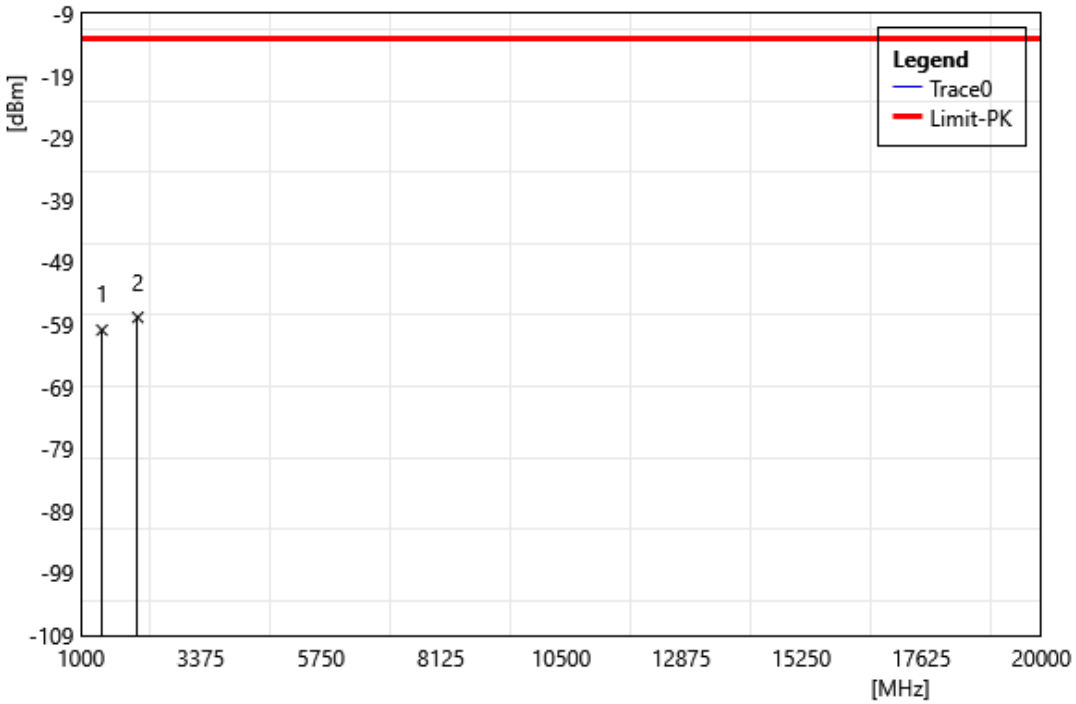
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1415.00	-52.67	-6.90	-59.57	-13.00	-46.57	PEAK
2	2122.50	-53.09	-5.58	-58.67	-13.00	-45.67	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n12 SA 15k QPSK BW:15M		
	707.5 MHz		
Polarization:	Vertical		
Remark:			



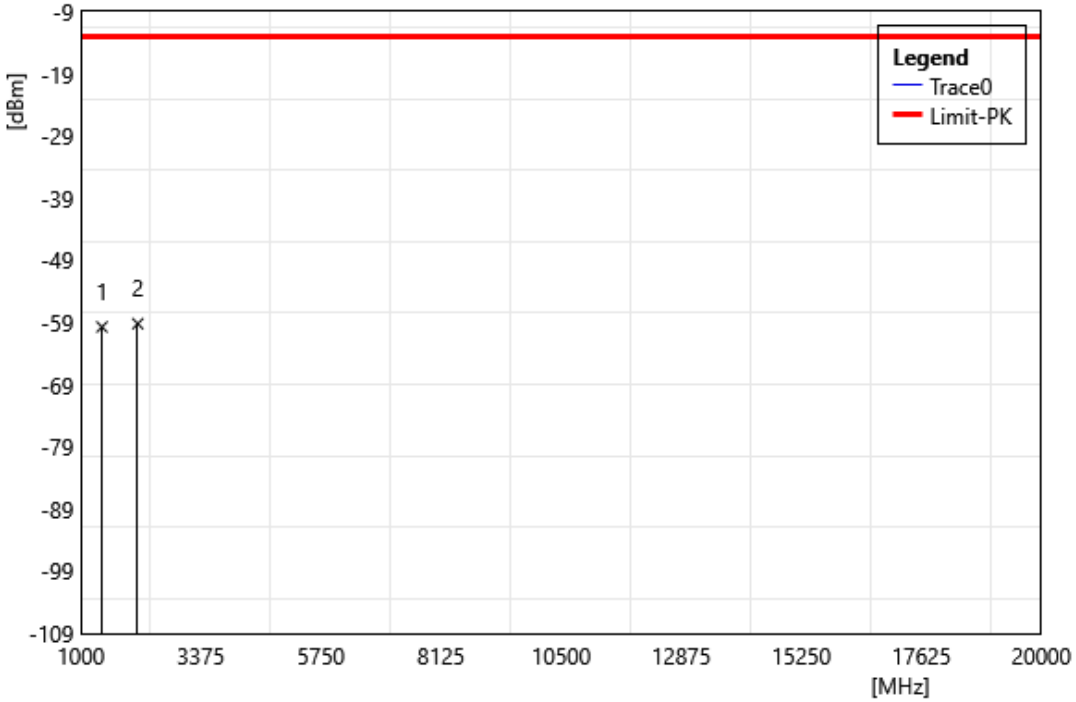
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1415.00	-52.84	-6.90	-59.74	-13.00	-46.74	PEAK
2	2122.50	-52.77	-5.58	-58.35	-13.00	-45.35	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n12 SA 15k QPSK BW:15M		
	708.5 MHz		
Polarization:	Horizontal		
Remark:			



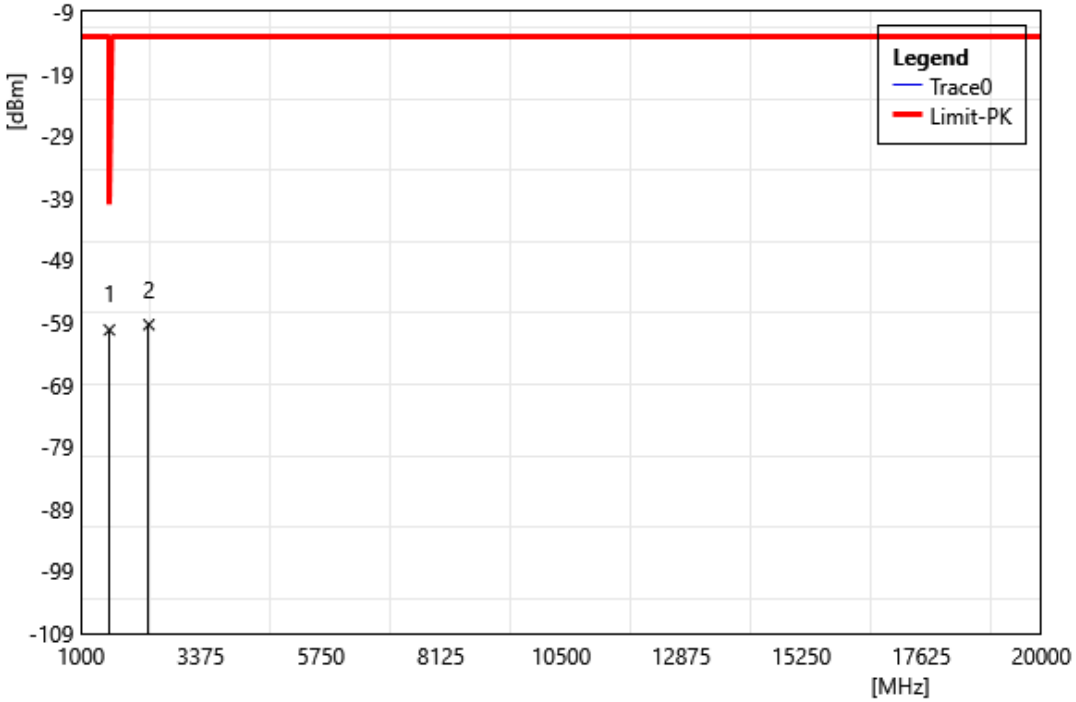
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1417.00	-53.00	-6.89	-59.89	-13.00	-46.89	PEAK
2	2125.50	-52.32	-5.53	-57.85	-13.00	-44.85	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n12 SA 15k QPSK BW:15M		
	708.5 MHz		
Polarization:	Vertical		
Remark:			



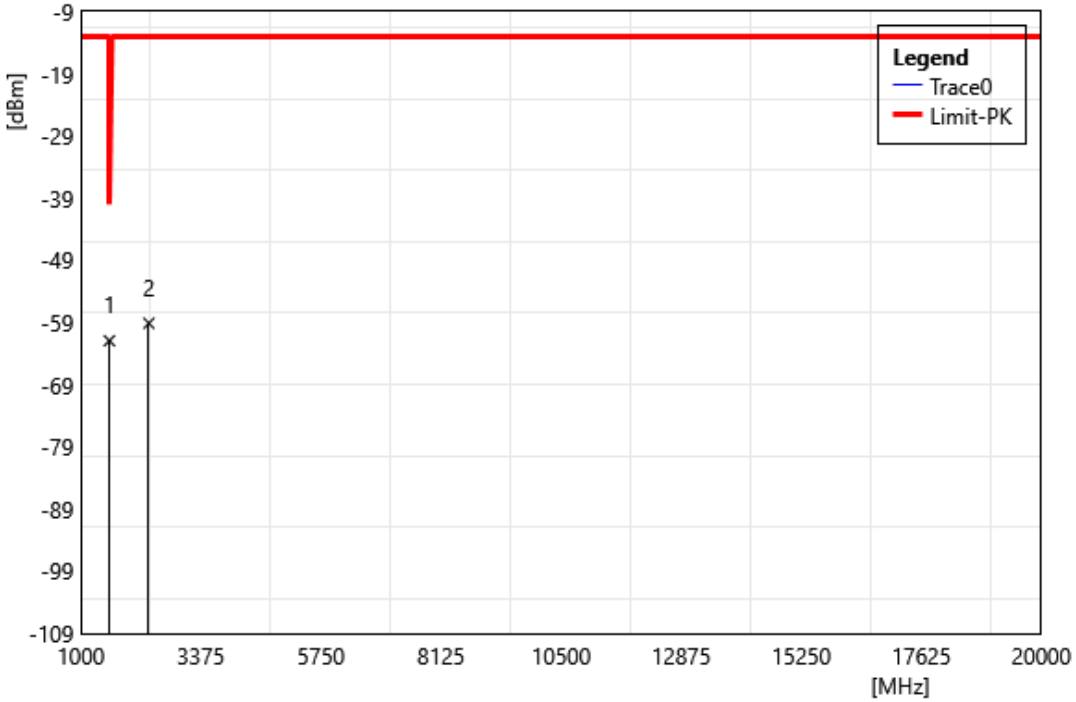
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1417.00	-52.81	-6.89	-59.70	-13.00	-46.70	PEAK
2	2125.50	-53.66	-5.53	-59.19	-13.00	-46.19	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n13 SA 15k QPSK BW:10M		
	782 MHz		
Polarization:	Horizontal		
Remark:			



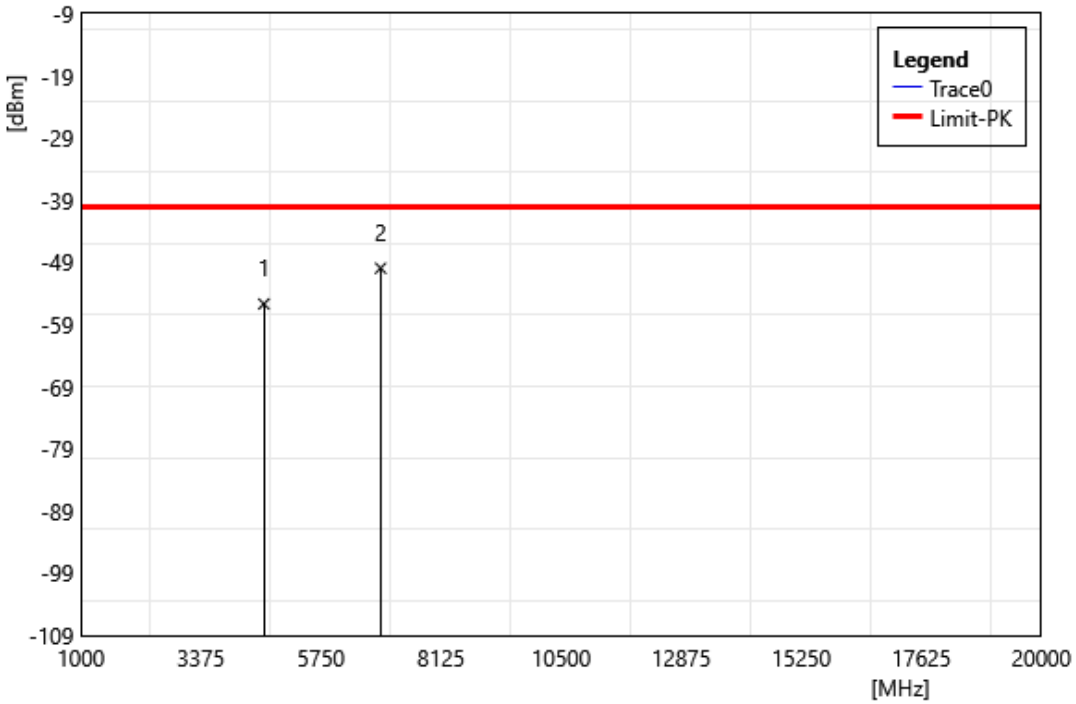
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1564.00	-52.68	-7.51	-60.19	-40.00	-20.19	PEAK
2	2346.00	-54.66	-4.69	-59.35	-13.00	-46.35	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n13 SA 15k QPSK BW:10M		
	782 MHz		
Polarization:	Vertical		
Remark:			



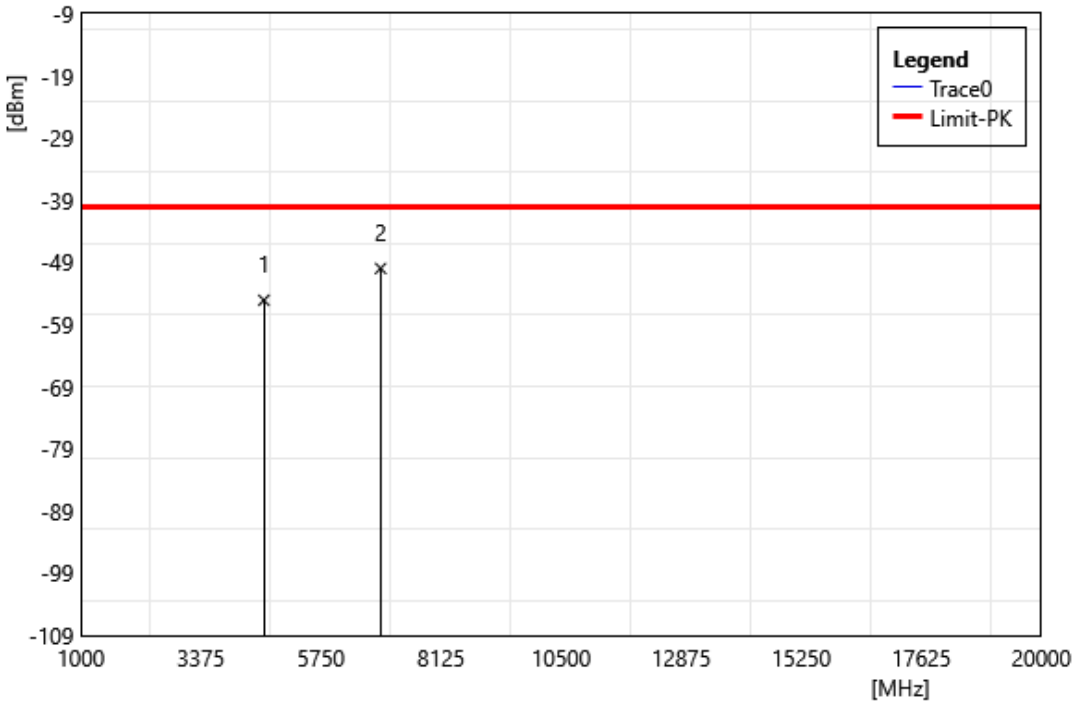
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1564.00	-54.42	-7.51	-61.93	-40.00	-21.93	PEAK
2	2346.00	-54.42	-4.69	-59.11	-13.00	-46.11	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n30 SA 15k QPSK BW:10M		
	2310 MHz		
Polarization:	Horizontal		
Remark:			



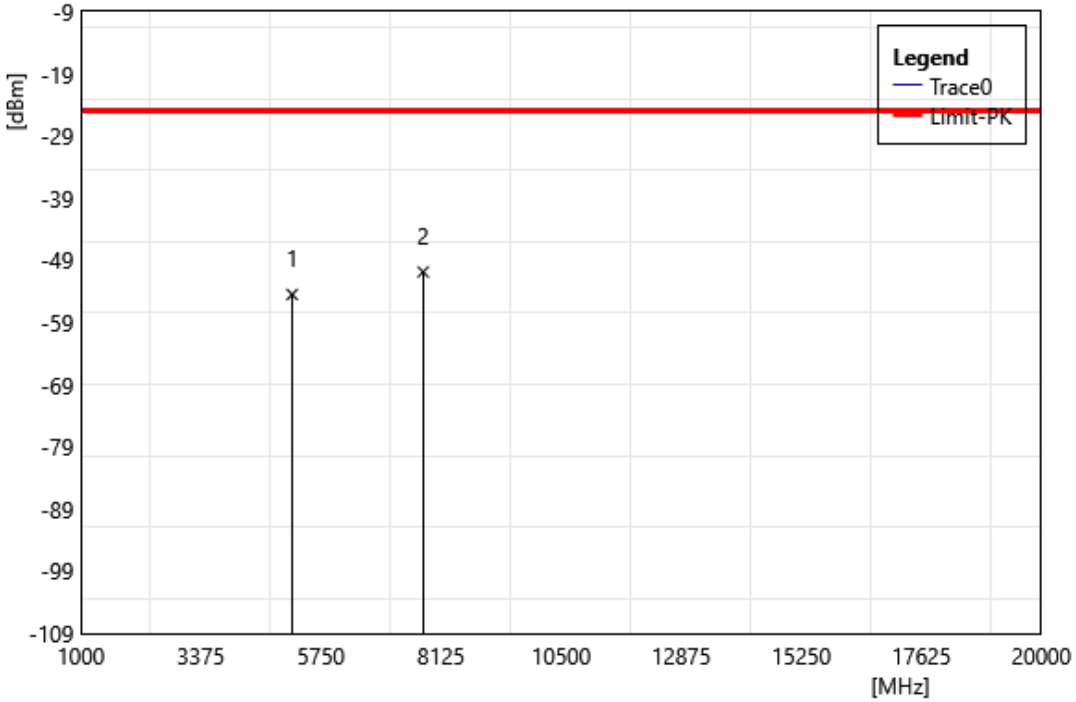
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	4620.00	-56.58	0.89	-55.69	-13.00	-42.69	PEAK
2	6930.00	-56.20	6.25	-49.95	-13.00	-36.95	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n30 SA 15k QPSK BW:10M		
	2310 MHz		
Polarization:	Vertical		
Remark:			



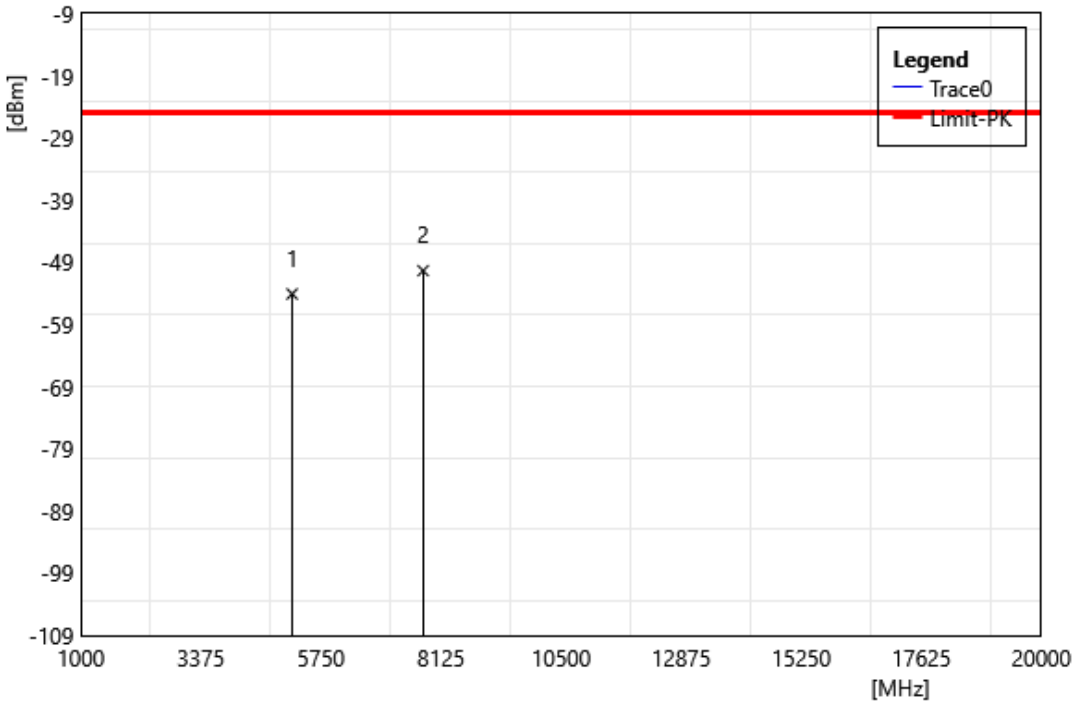
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	4620.00	-55.98	0.89	-55.09	-13.00	-42.09	PEAK
2	6930.00	-56.23	6.25	-49.98	-13.00	-36.98	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n38 SA 30k QPSK BW:40M		
	2600 MHz		
Polarization:	Horizontal		
Remark:			



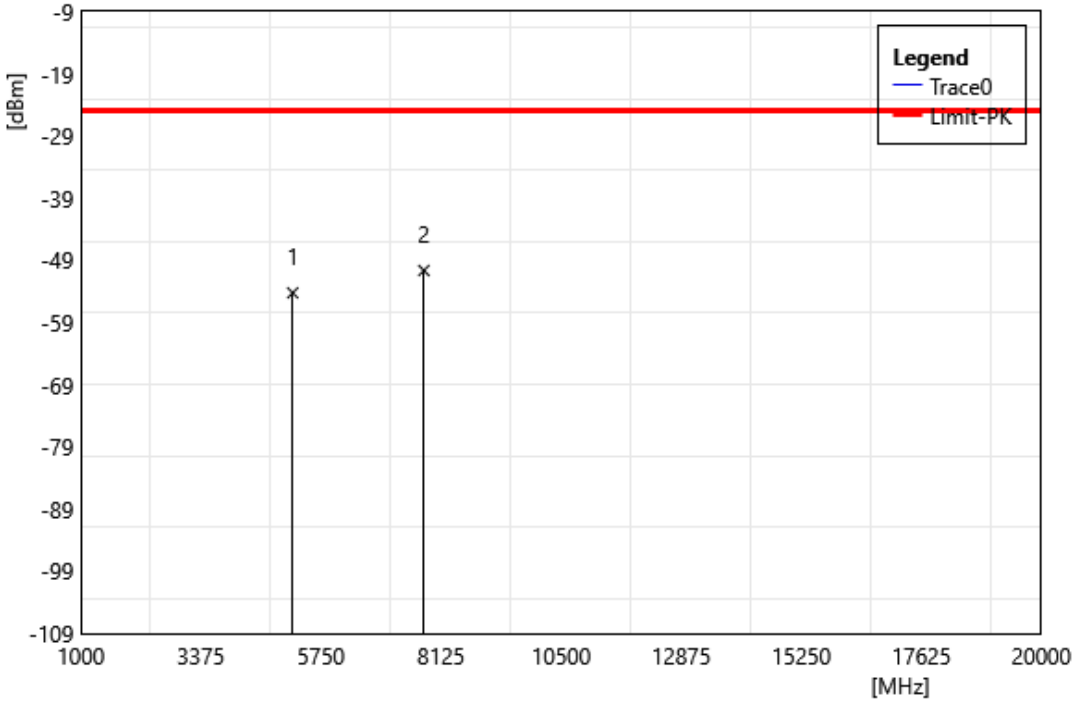
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5180.00	-56.22	1.73	-54.49	-13.00	-41.49	PEAK
2	7770.00	-57.41	6.55	-50.86	-13.00	-37.86	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n38 SA 30k QPSK BW:40M		
	2600 MHz		
Polarization:	Vertical		
Remark:			



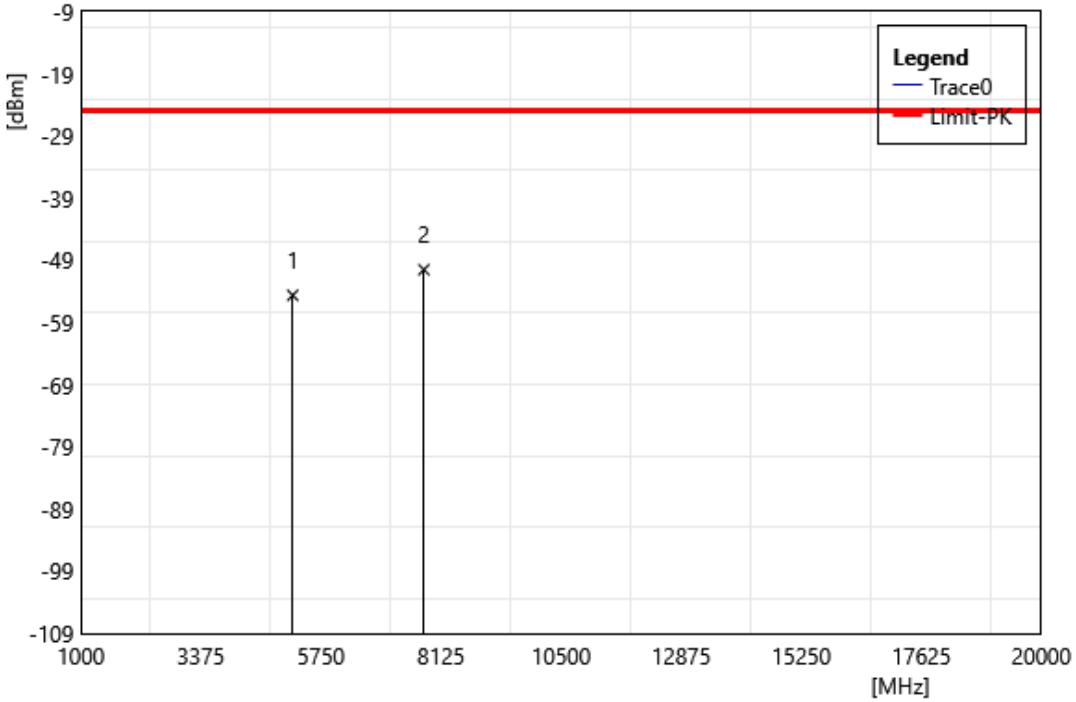
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5180.00	-55.81	1.73	-54.08	-13.00	-41.08	PEAK
2	7770.00	-56.89	6.55	-50.34	-13.00	-37.34	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n38 SA 30k QPSK BW:40M		
	2595 MHz		
Polarization:	Horizontal		
Remark:			



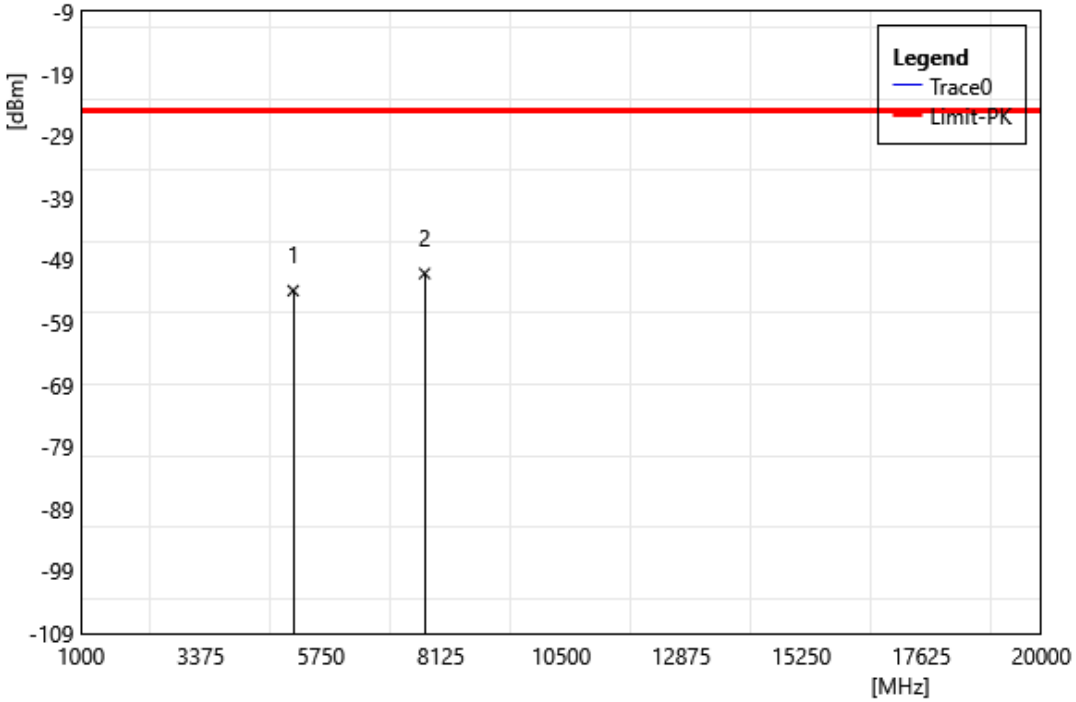
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5190.00	-55.97	1.75	-54.22	-13.00	-41.22	PEAK
2	7785.00	-57.10	6.47	-50.63	-13.00	-37.63	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n38 SA 30k QPSK BW:40M		
	2595 MHz		
Polarization:	Vertical		
Remark:			



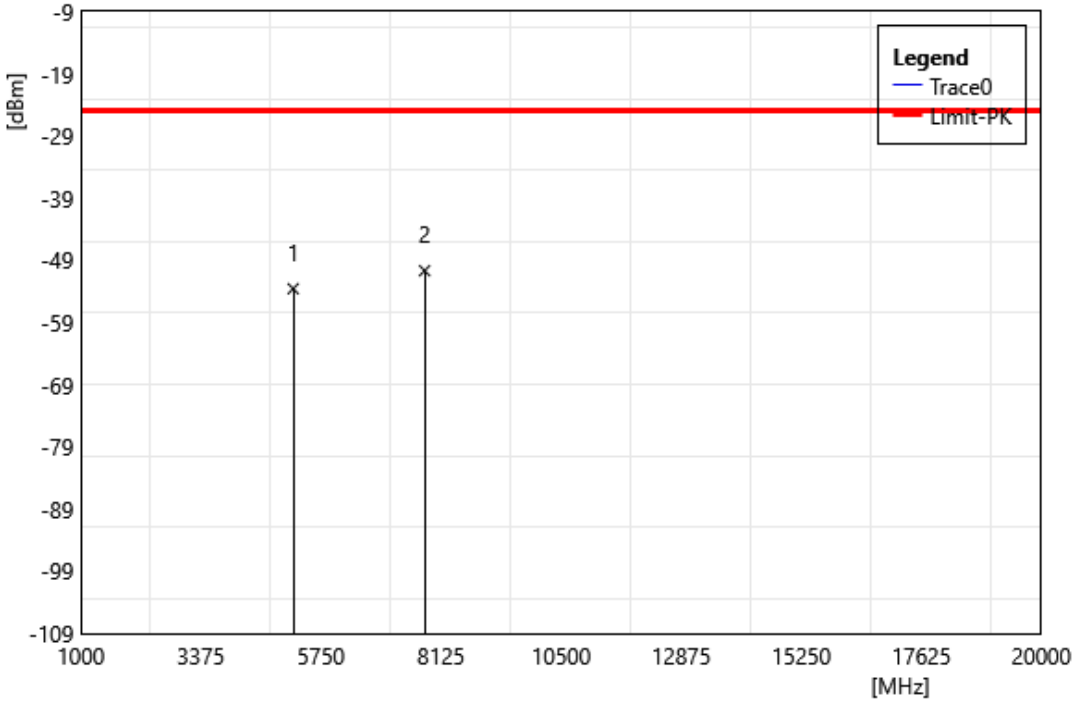
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5190.00	-56.37	1.75	-54.62	-13.00	-41.62	PEAK
2	7785.00	-56.97	6.47	-50.50	-13.00	-37.50	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n38 SA 30k QPSK BW:40M		
	2600 MHz		
Polarization:	Horizontal		
Remark:			



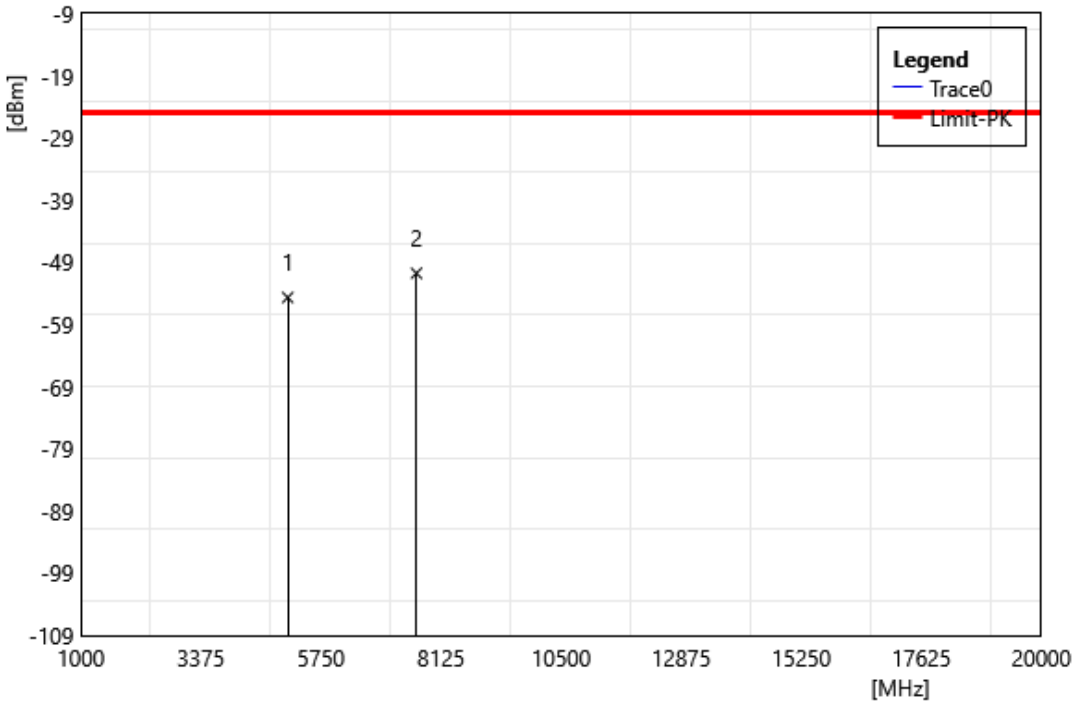
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5200.00	-55.66	1.78	-53.88	-13.00	-40.88	PEAK
2	7800.00	-57.51	6.39	-51.12	-13.00	-38.12	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n38 SA 30k QPSK BW:40M		
	2600 MHz		
Polarization:	Vertical		
Remark:			



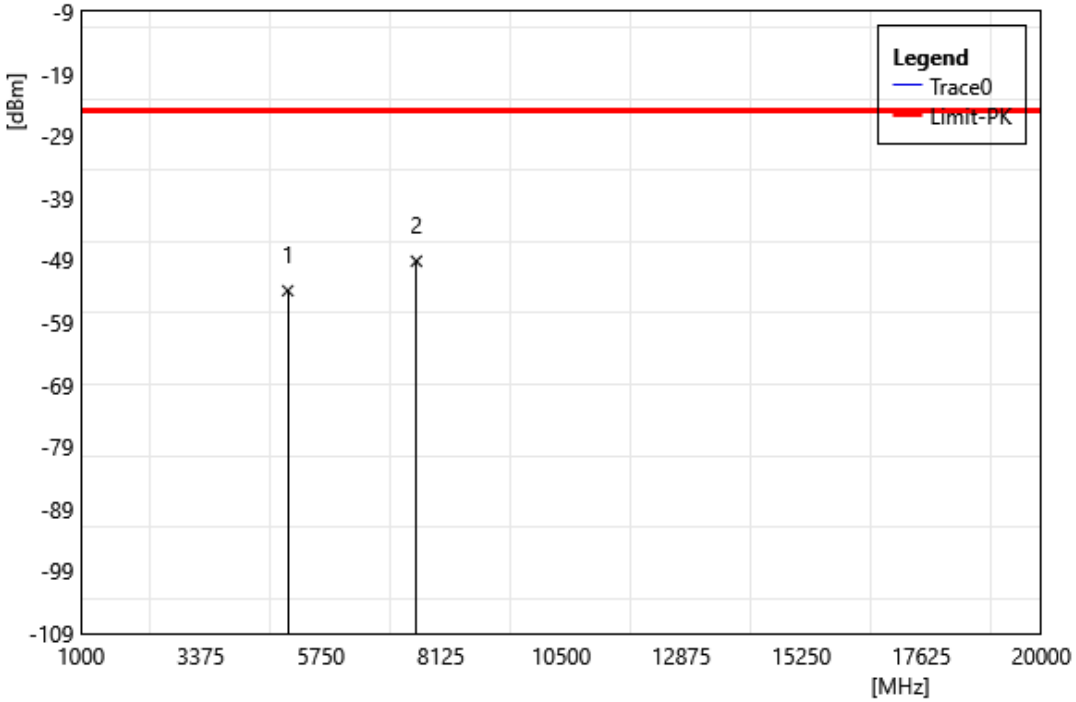
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5200.00	-55.34	1.78	-53.56	-13.00	-40.56	PEAK
2	7800.00	-57.06	6.39	-50.67	-13.00	-37.67	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n41 SA 30k QPSK		
	BW:100M 2546.01 MHz		
Polarization:	Horizontal		
Remark:			



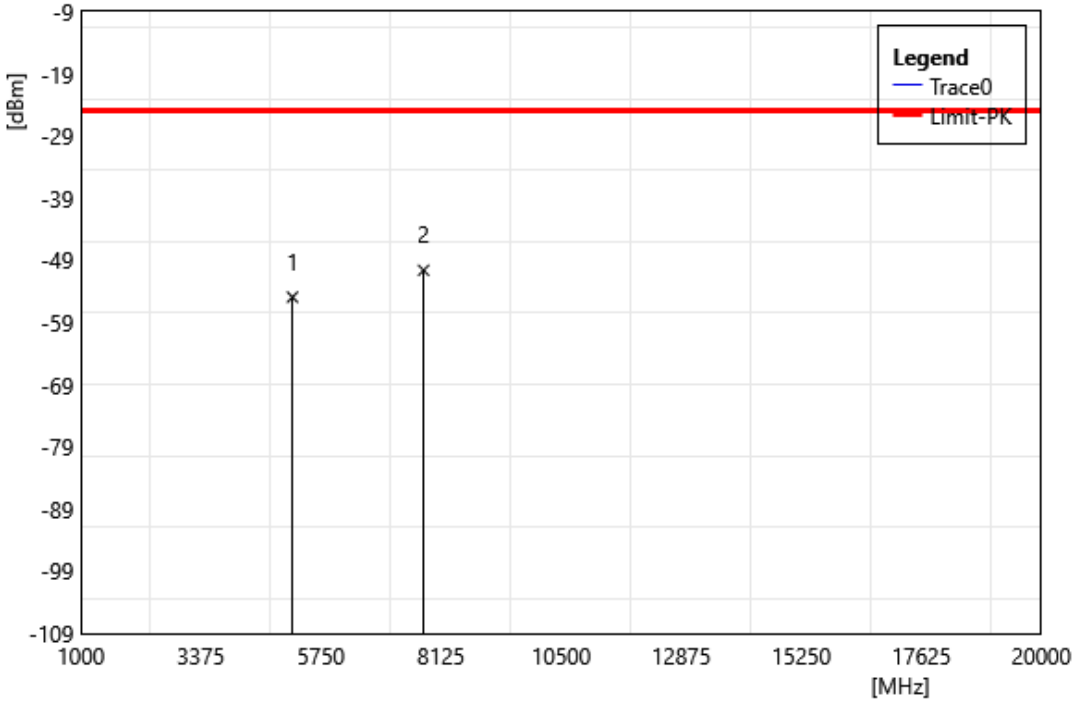
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5092.02	-56.36	1.71	-54.65	-13.00	-41.65	PEAK
2	7638.03	-57.46	6.71	-50.75	-13.00	-37.75	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n41 SA 30k QPSK		
	BW:100M 2546.01 MHz		
Polarization:	Vertical		
Remark:			



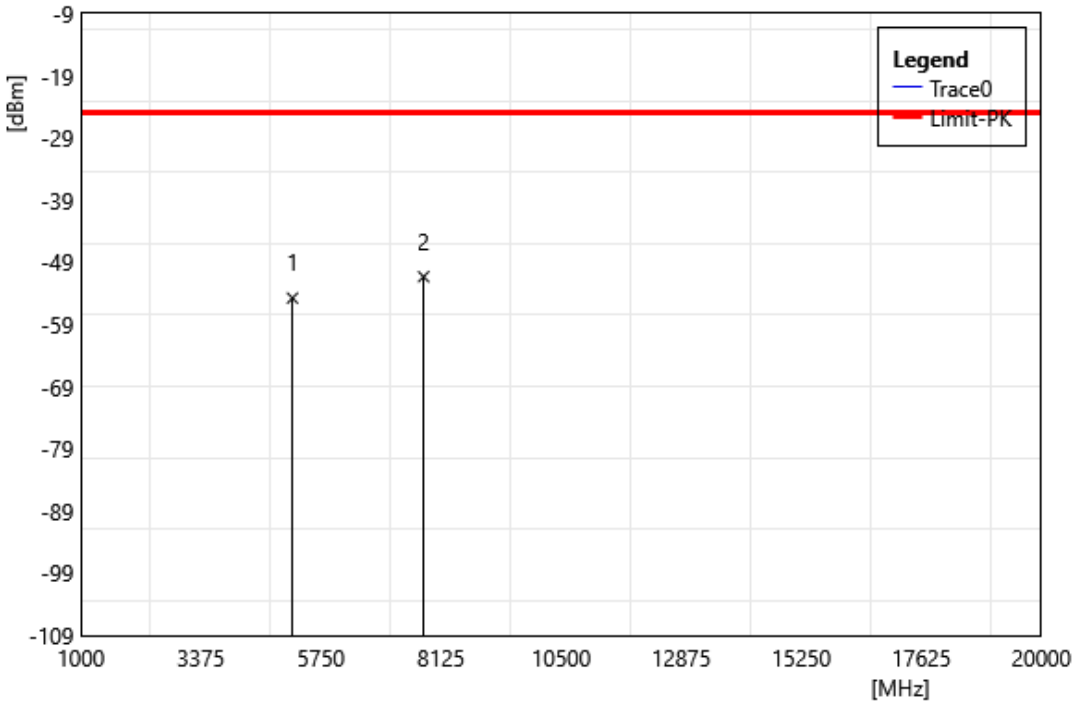
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5092.02	-55.60	1.71	-53.89	-13.00	-40.89	PEAK
2	7638.03	-55.85	6.71	-49.14	-13.00	-36.14	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n41 SA 30k QPSK		
	BW:100M 2592.99 MHz		
Polarization:	Horizontal		
Remark:			



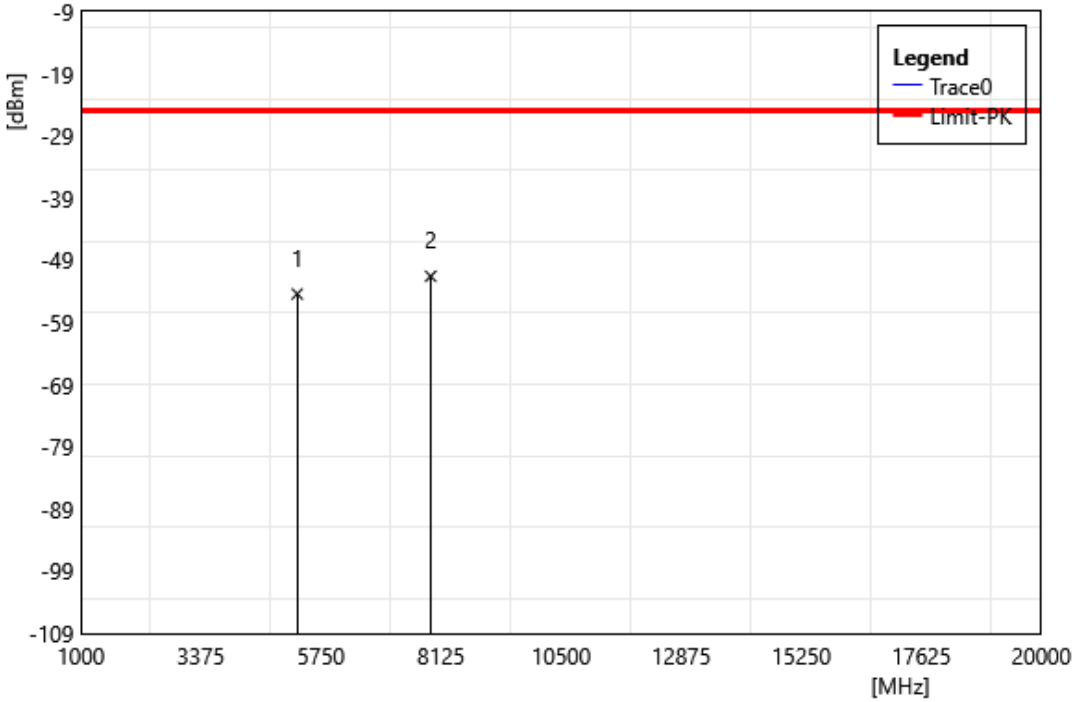
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5185.98	-56.66	1.74	-54.92	-13.00	-41.92	PEAK
2	7778.97	-57.09	6.50	-50.59	-13.00	-37.59	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n41 SA 30k QPSK		
	BW:100M 2592.99 MHz		
Polarization:	Vertical		
Remark:			



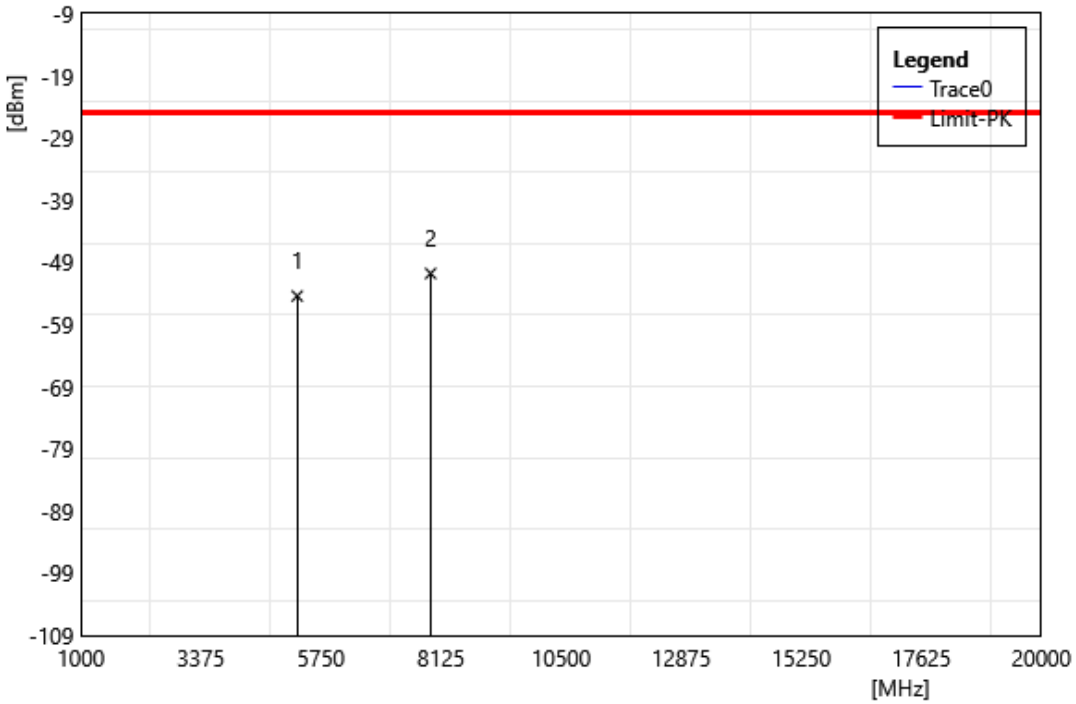
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5185.98	-56.48	1.74	-54.74	-13.00	-41.74	PEAK
2	7778.97	-57.81	6.50	-51.31	-13.00	-38.31	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n41 SA 30k QPSK		
	BW:100M 2640 MHz		
Polarization:	Horizontal		
Remark:			



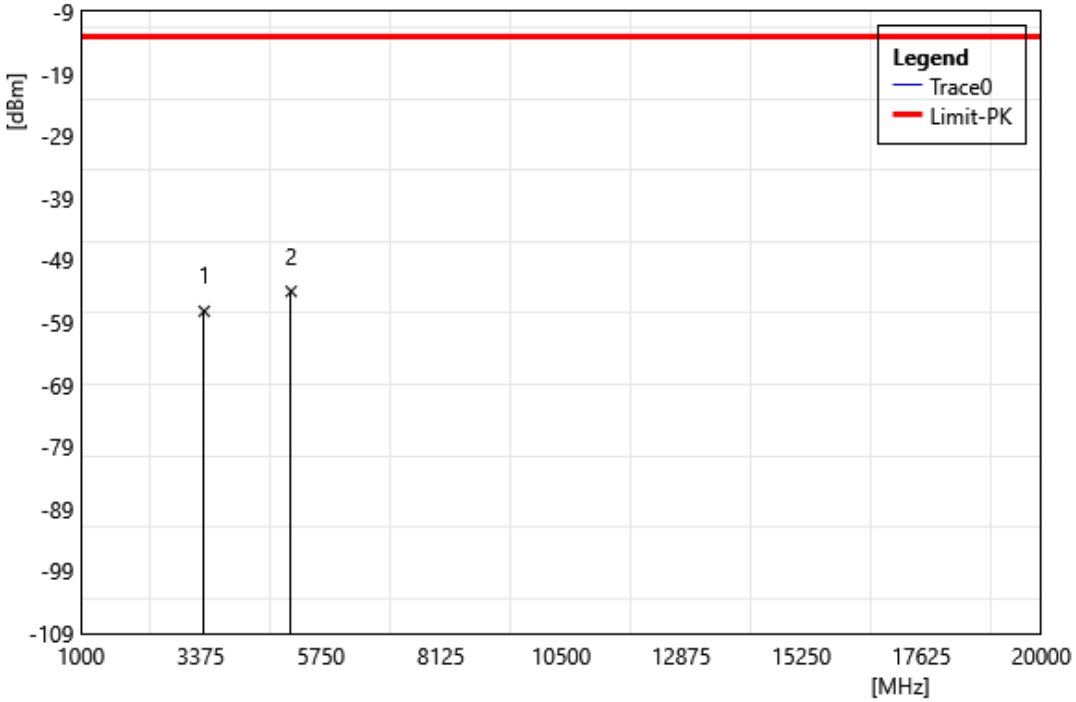
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5280.00	-55.79	1.38	-54.41	-13.00	-41.41	PEAK
2	7920.00	-57.62	6.06	-51.56	-13.00	-38.56	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n41 SA 30k QPSK		
	BW:100M 2640 MHz		
Polarization:	Vertical		
Remark:			



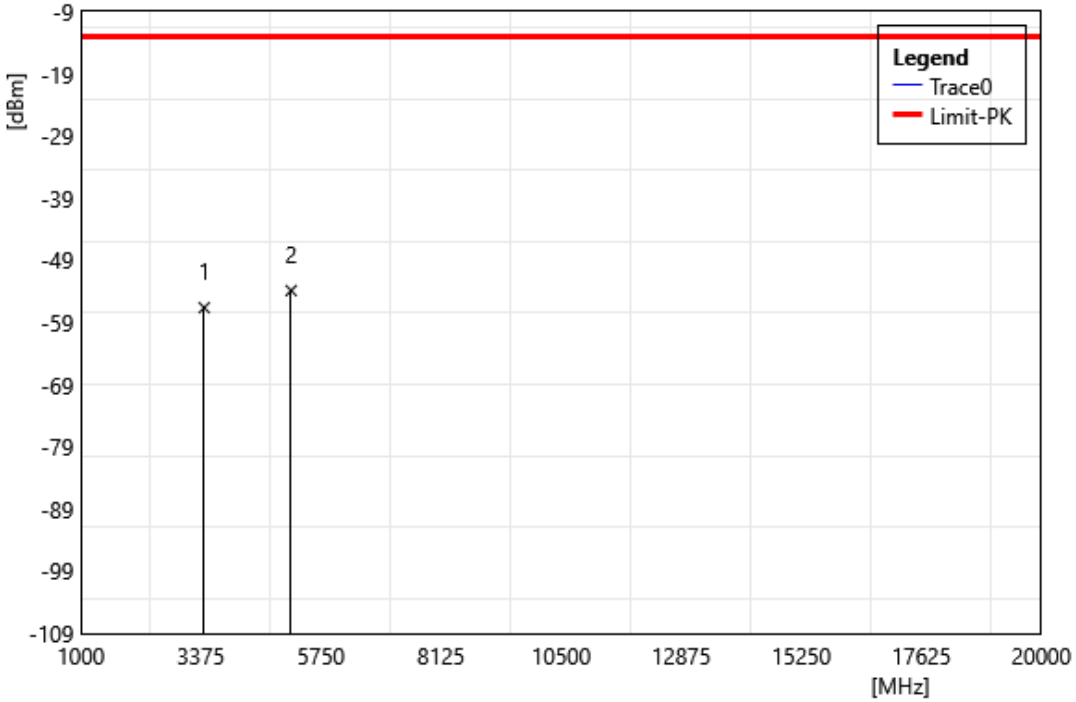
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5280.00	-55.80	1.38	-54.42	-13.00	-41.42	PEAK
2	7920.00	-56.85	6.06	-50.79	-13.00	-37.79	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n66 SA 15k QPSK BW:20M		
	1720 MHz		
Polarization:	Horizontal		
Remark:			



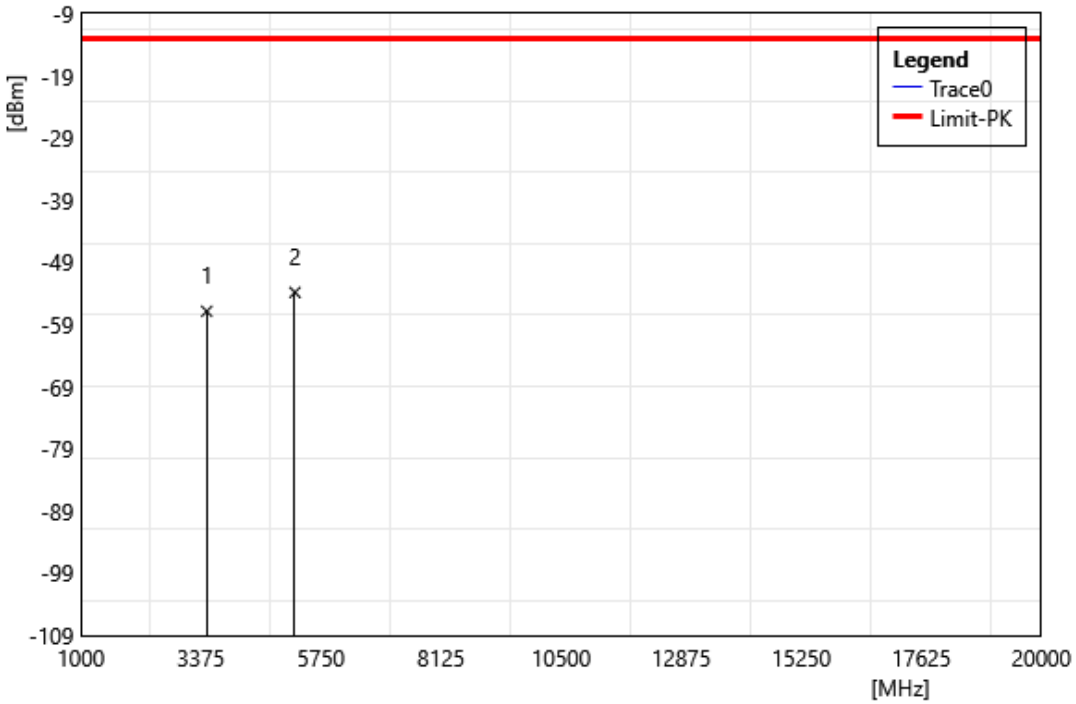
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3440.00	-55.09	-2.10	-57.19	-13.00	-44.19	PEAK
2	5160.00	-55.68	1.68	-54.00	-13.00	-41.00	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n66 SA 15k QPSK BW:20M		
	1720 MHz		
Polarization:	Vertical		
Remark:			



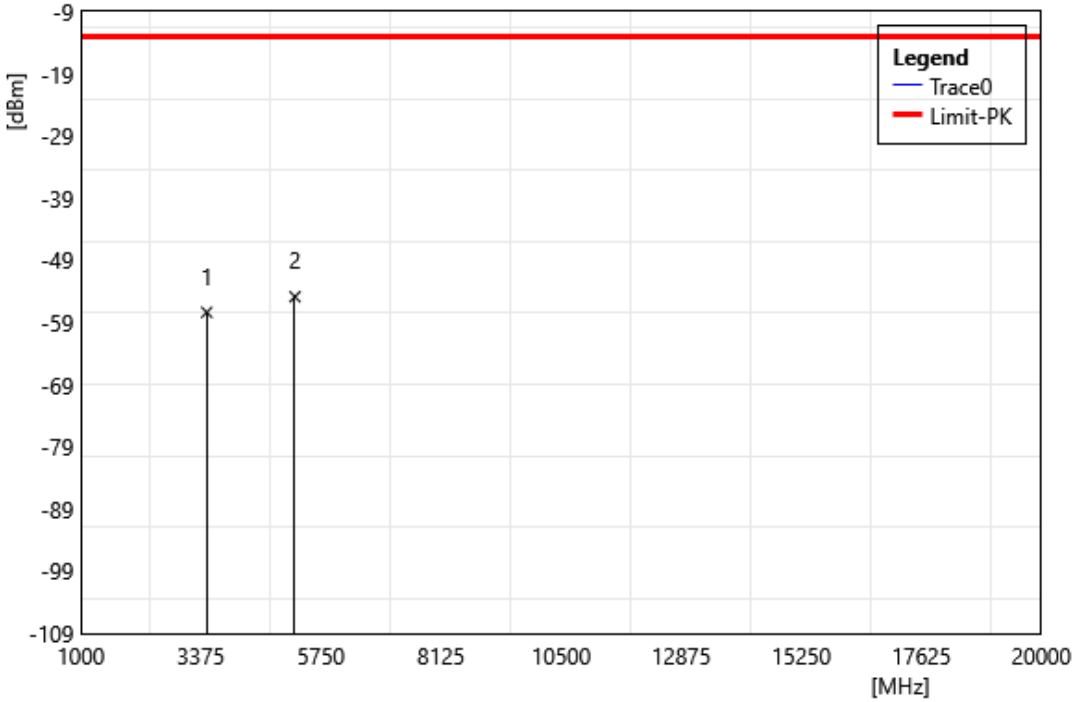
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3440.00	-54.50	-2.10	-56.60	-13.00	-43.60	PEAK
2	5160.00	-55.55	1.68	-53.87	-13.00	-40.87	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n66 SA 15k QPSK BW:20M		
	1745 MHz		
Polarization:	Horizontal		
Remark:			



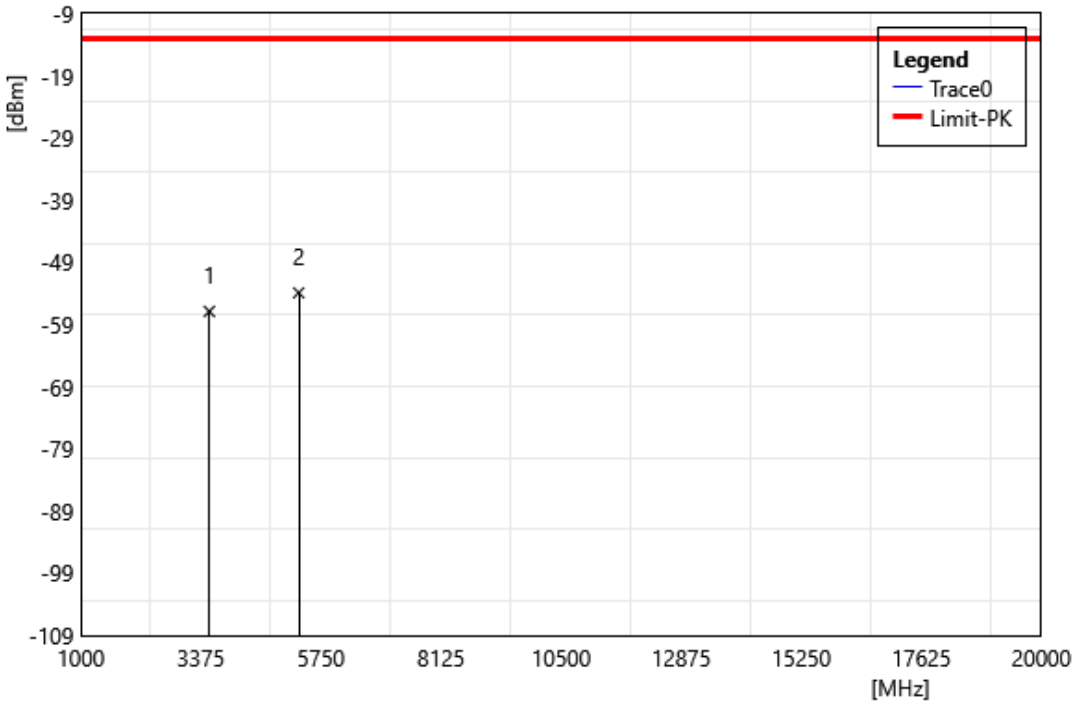
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3490.00	-55.08	-1.78	-56.86	-13.00	-43.86	PEAK
2	5235.00	-55.40	1.57	-53.83	-13.00	-40.83	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n66 SA 15k QPSK BW:20M		
	1745 MHz		
Polarization:	Vertical		
Remark:			



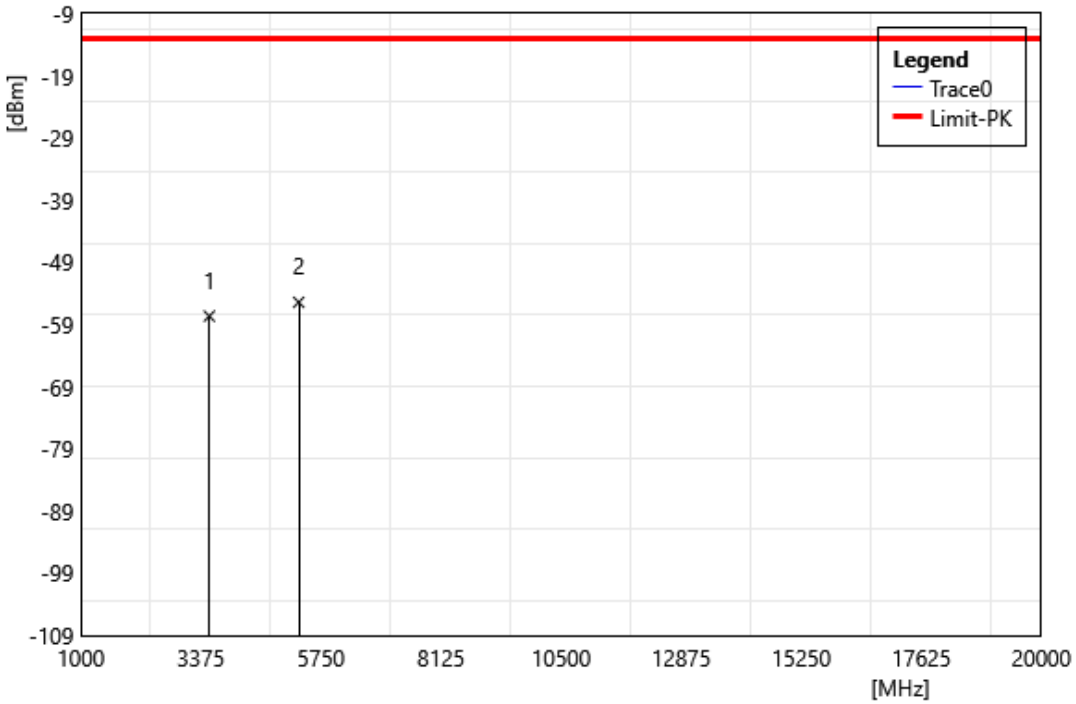
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3490.00	-55.58	-1.78	-57.36	-13.00	-44.36	PEAK
2	5235.00	-56.42	1.57	-54.85	-13.00	-41.85	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n66 SA 15k QPSK BW:20M		
	1770 MHz		
Polarization:	Horizontal		
Remark:			



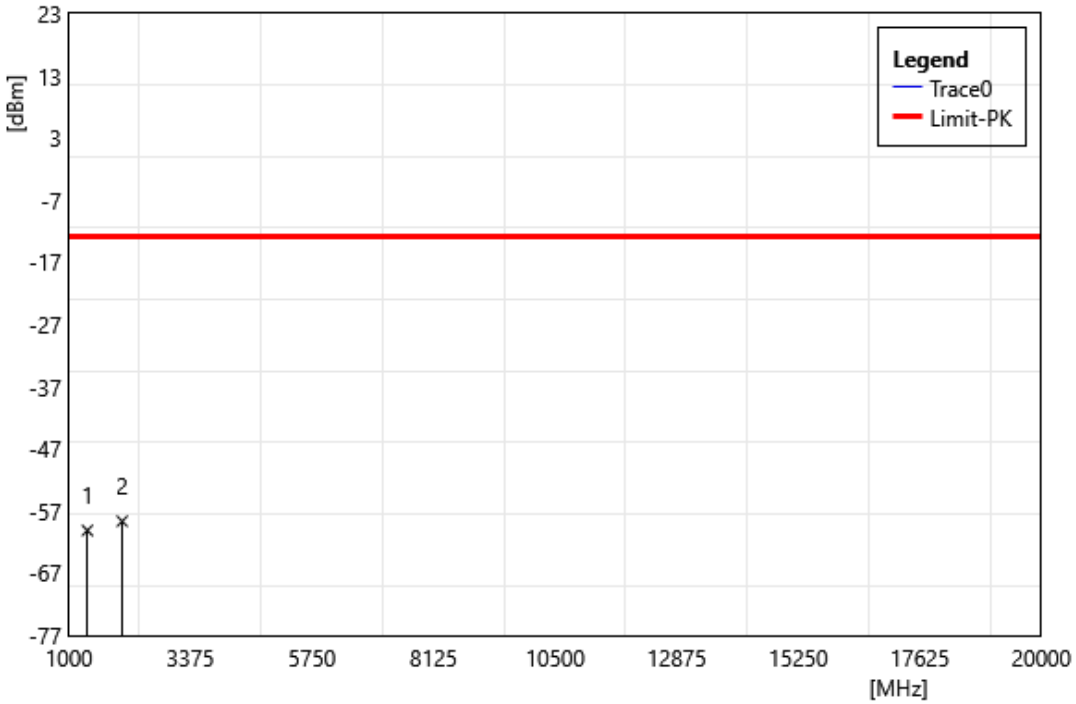
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3540.00	-55.14	-1.75	-56.89	-13.00	-43.89	PEAK
2	5310.00	-55.20	1.29	-53.91	-13.00	-40.91	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n66 SA 15k QPSK BW:20M		
	1770 MHz		
Polarization:	Vertical		
Remark:			



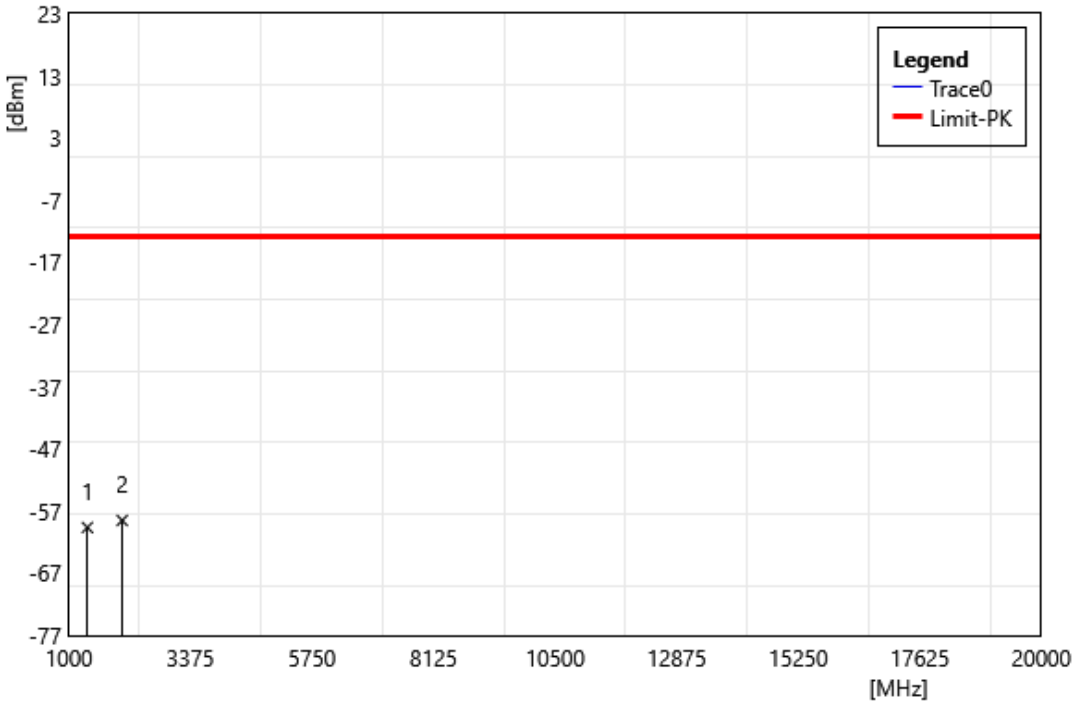
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	3540.00	-55.89	-1.75	-57.64	-13.00	-44.64	PEAK
2	5310.00	-56.72	1.29	-55.44	-13.00	-42.44	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n71 SA 30k QPSK BW:20M		
	673 MHz		
Polarization:	Horizontal		
Remark:			



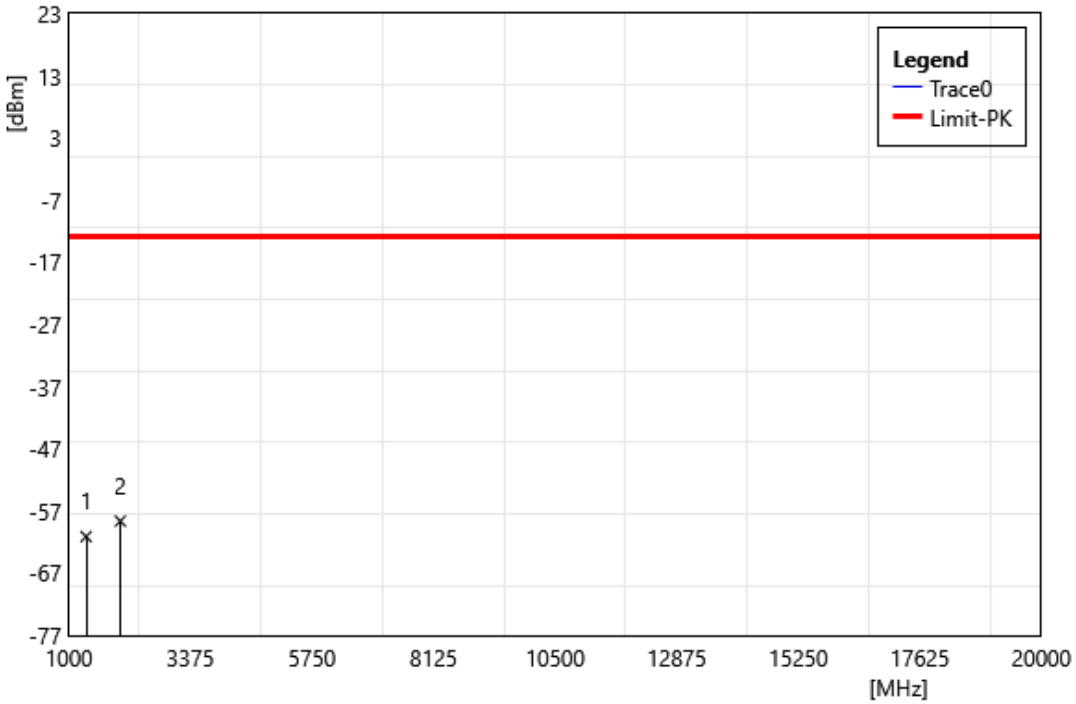
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1361.00	-51.97	-8.15	-60.12	-13.00	-47.12	PEAK
2	2041.50	-52.82	-5.81	-58.63	-13.00	-45.63	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n71 SA 30k QPSK BW:20M		
	673 MHz		
Polarization:	Vertical		
Remark:			



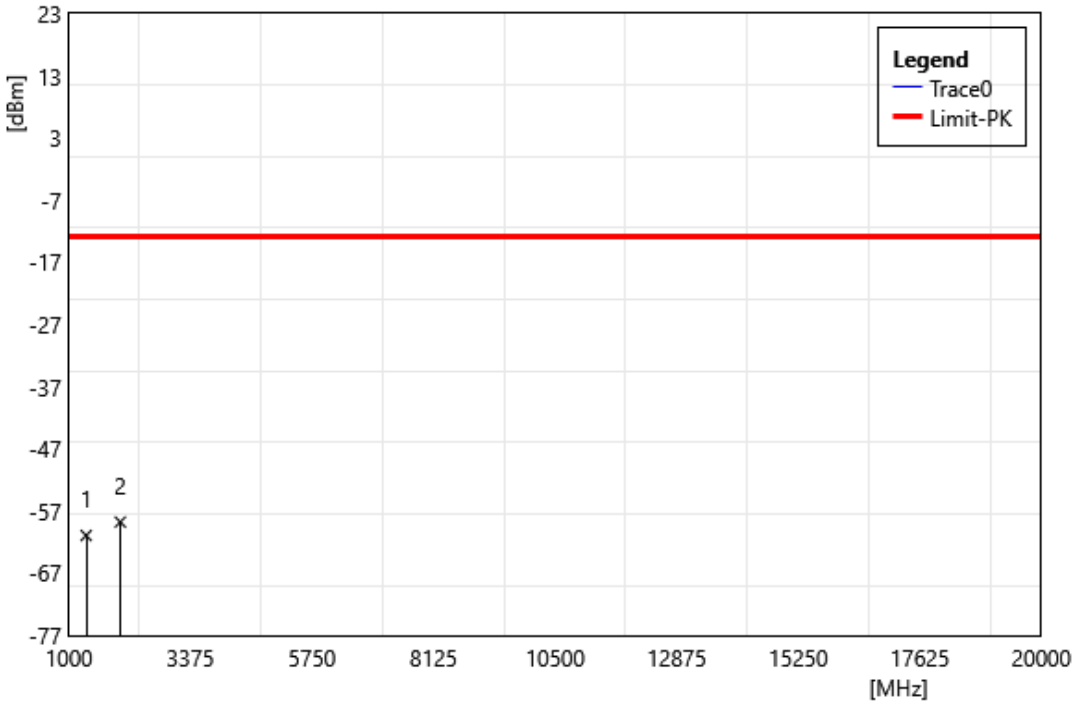
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1361.00	-51.49	-8.15	-59.64	-13.00	-46.64	PEAK
2	2041.50	-52.70	-5.81	-58.51	-13.00	-45.51	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n71 SA 30k QPSK BW:20M		
	680.5 MHz		
Polarization:	Horizontal		
Remark:			



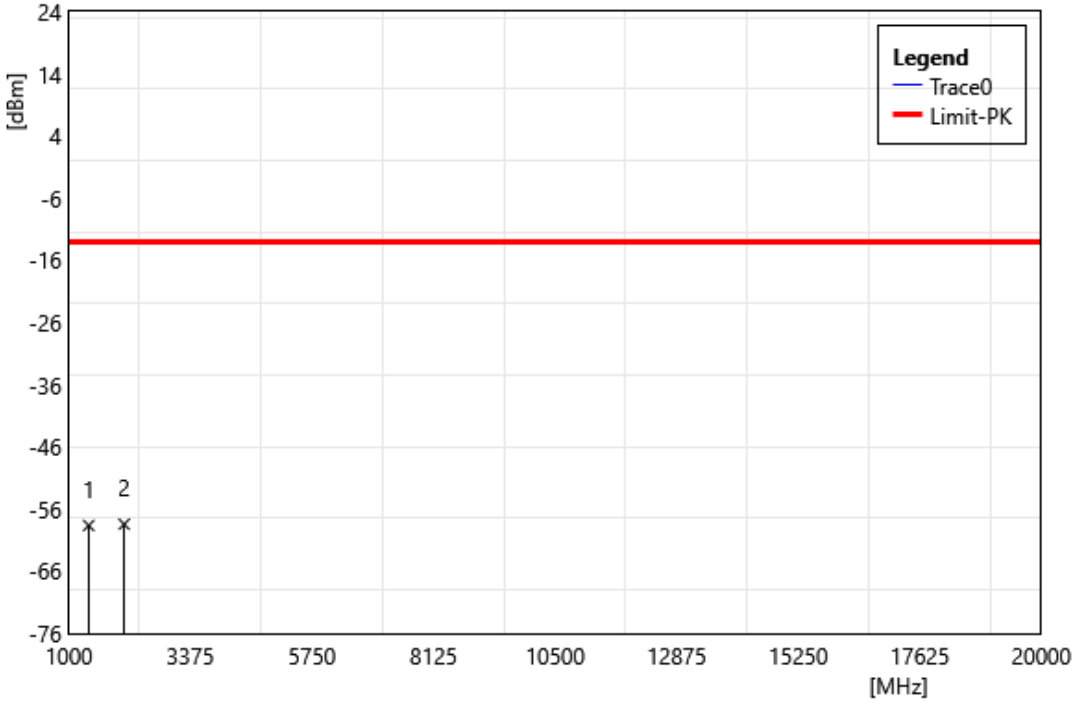
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1336.00	-52.79	-8.32	-61.11	-13.00	-48.11	PEAK
2	2004.00	-52.72	-5.89	-58.61	-13.00	-45.61	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n71 SA 30k QPSK BW:20M		
	680.5 MHz		
Polarization:	Vertical		
Remark:			



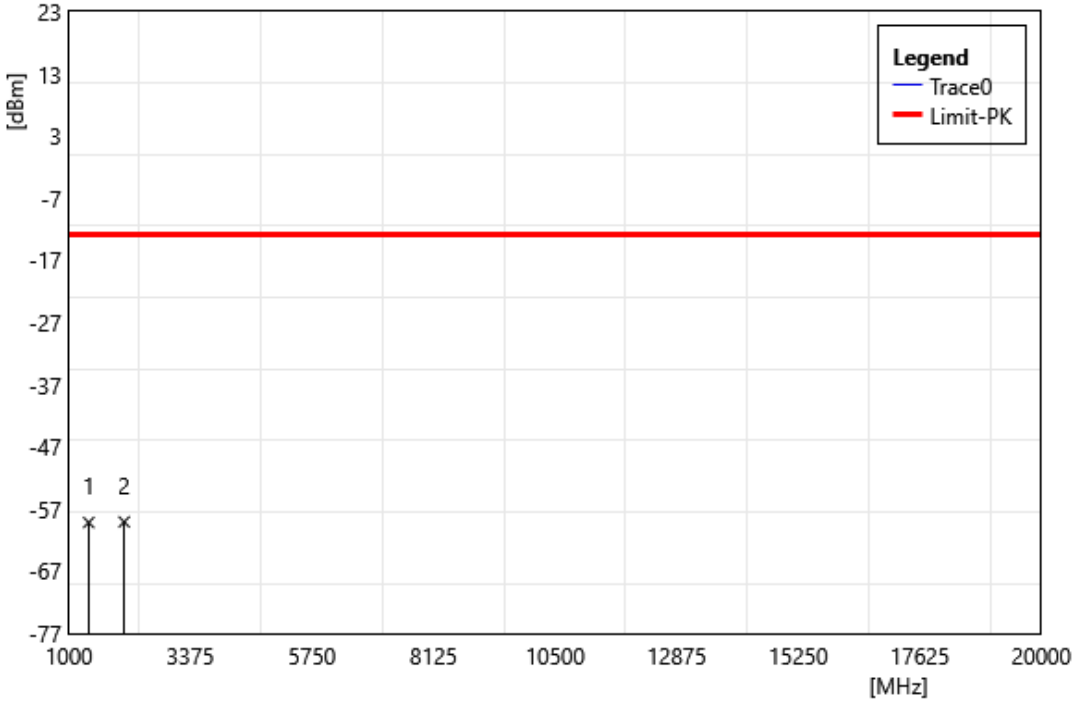
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1336.00	-52.61	-8.32	-60.93	-13.00	-47.93	PEAK
2	2004.00	-52.87	-5.89	-58.76	-13.00	-45.76	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n71 SA 30k QPSK BW:20M		
	688 MHz		
Polarization:	Horizontal		
Remark:			



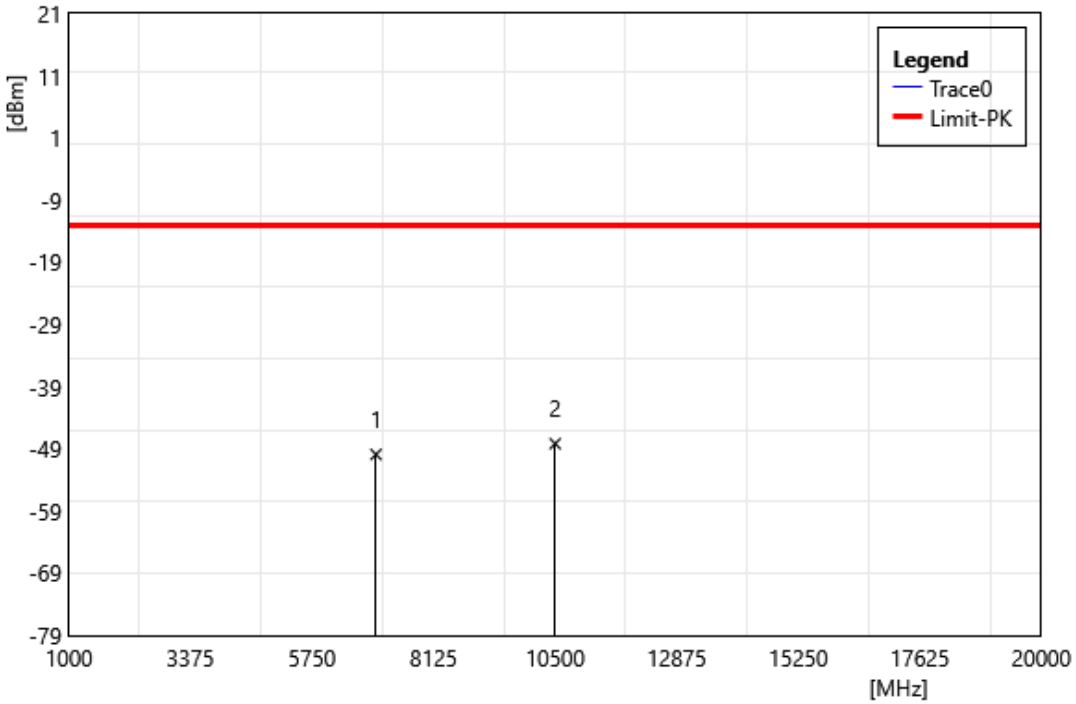
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1386.00	-51.30	-7.33	-58.63	-13.00	-45.63	PEAK
2	2079.00	-52.61	-5.82	-58.43	-13.00	-45.43	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n71 SA 30k QPSK BW:20M		
	688 MHz		
Polarization:	Vertical		
Remark:			



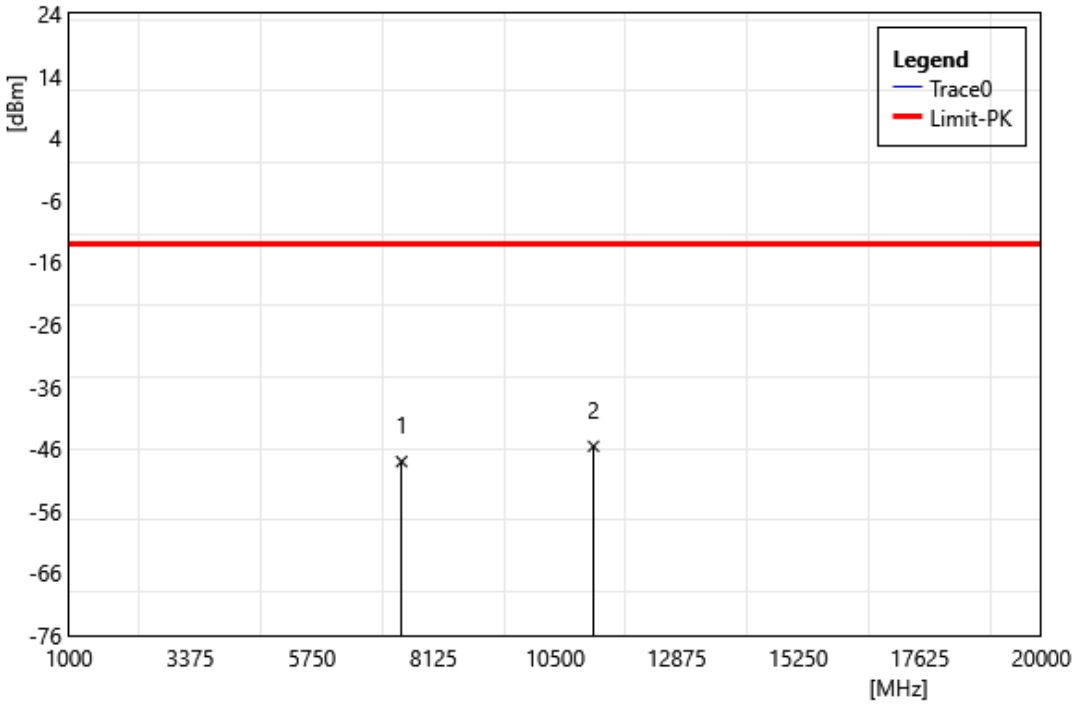
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1386.00	-51.83	-7.33	-59.16	-13.00	-46.16	PEAK
2	2079.00	-53.23	-5.82	-59.05	-13.00	-46.05	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n77 SA 30k QPSK		
	BW:100M 3750 MHz		
Polarization:	Horizontal		
Remark:			



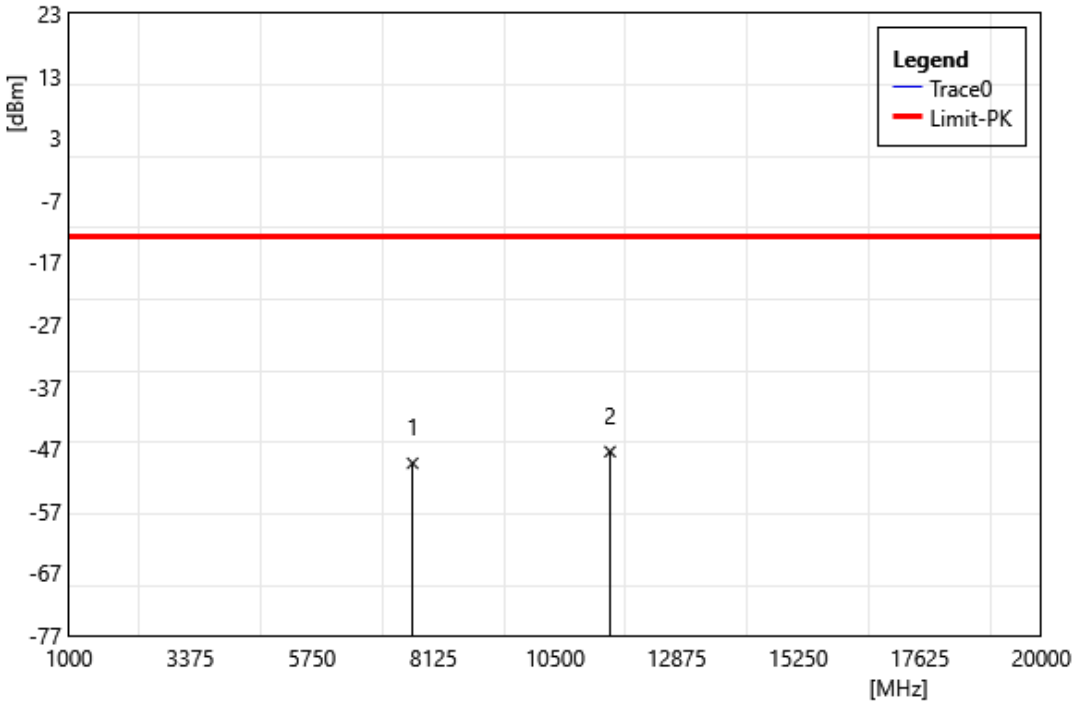
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7000.02	-56.32	6.43	-49.89	-13.00	-36.89	PEAK
2	10500.03	-55.54	7.37	-48.17	-13.00	-35.17	PEAK

Test Site:	96603-WG	Standard:	Part 24
Test Mode:	n77 SA 30k QPSK		
	BW:100M 3750 MHz		
Polarization:	Vertical		
Remark:			



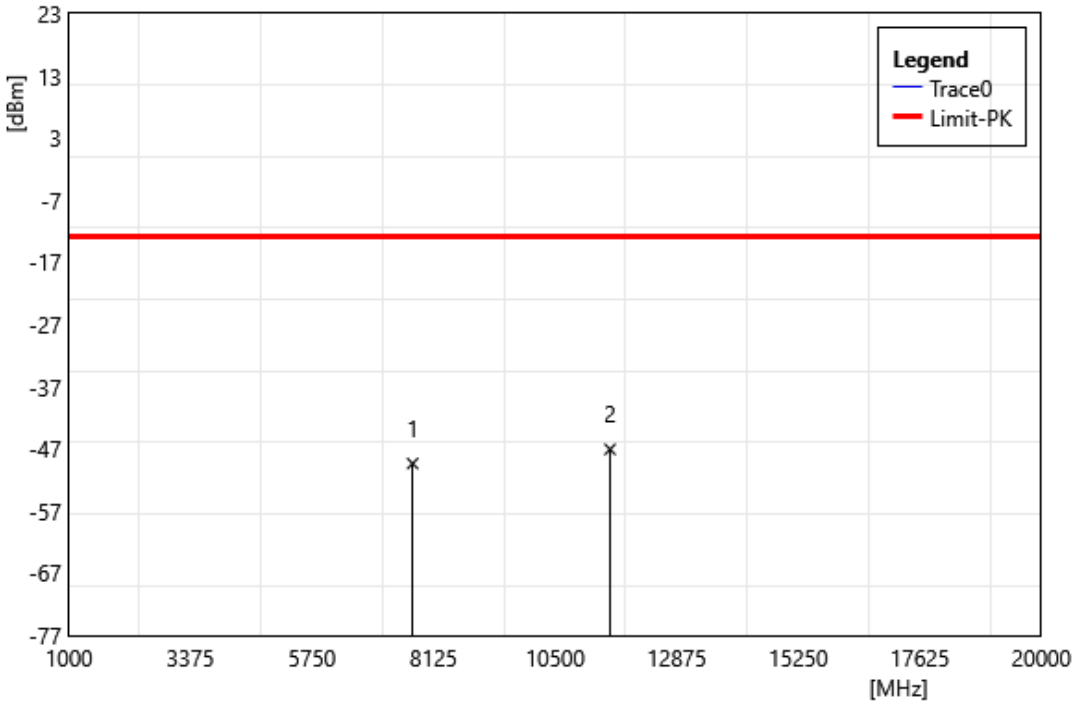
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7500.00	-54.82	6.78	-48.04	-13.00	-35.04	PEAK
2	11250.00	-53.23	7.64	-45.59	-13.00	-32.59	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n77 SA 30k QPSK		
	BW:100M 3858 MHz		
Polarization:	Horizontal		
Remark:			



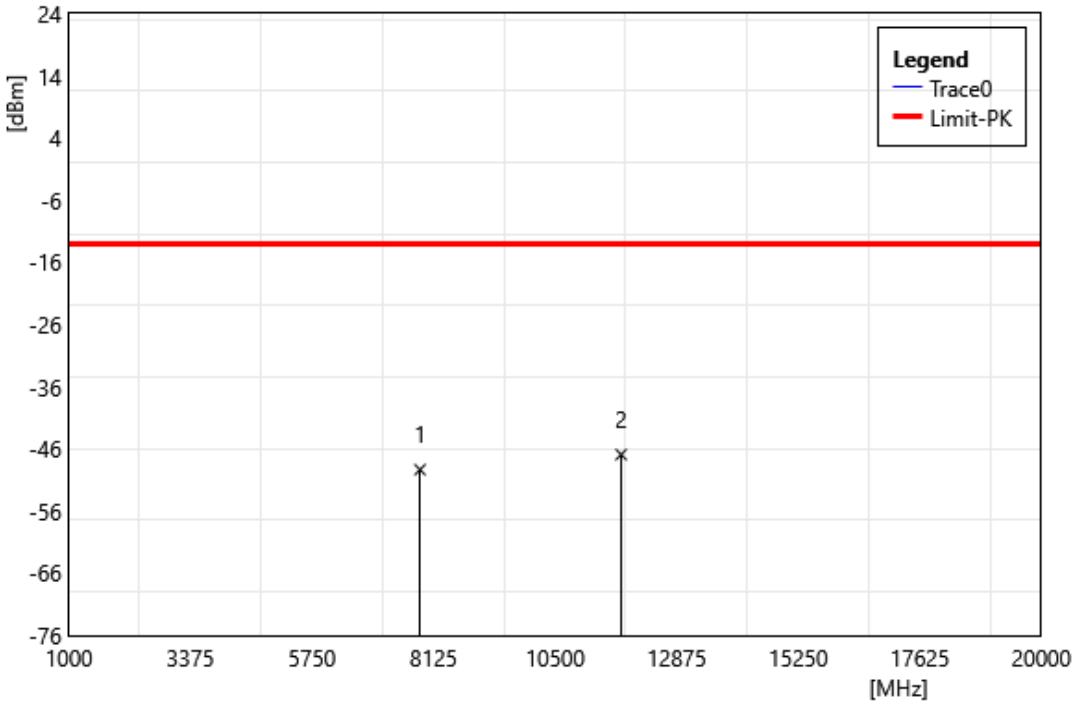
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7716.00	-56.16	6.85	-49.31	-13.00	-36.31	PEAK
2	11574.00	-55.12	7.67	-47.45	-13.00	-34.45	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n77 SA 30k QPSK		
	BW:100M 3858 MHz		
Polarization:	Vertical		
Remark:			



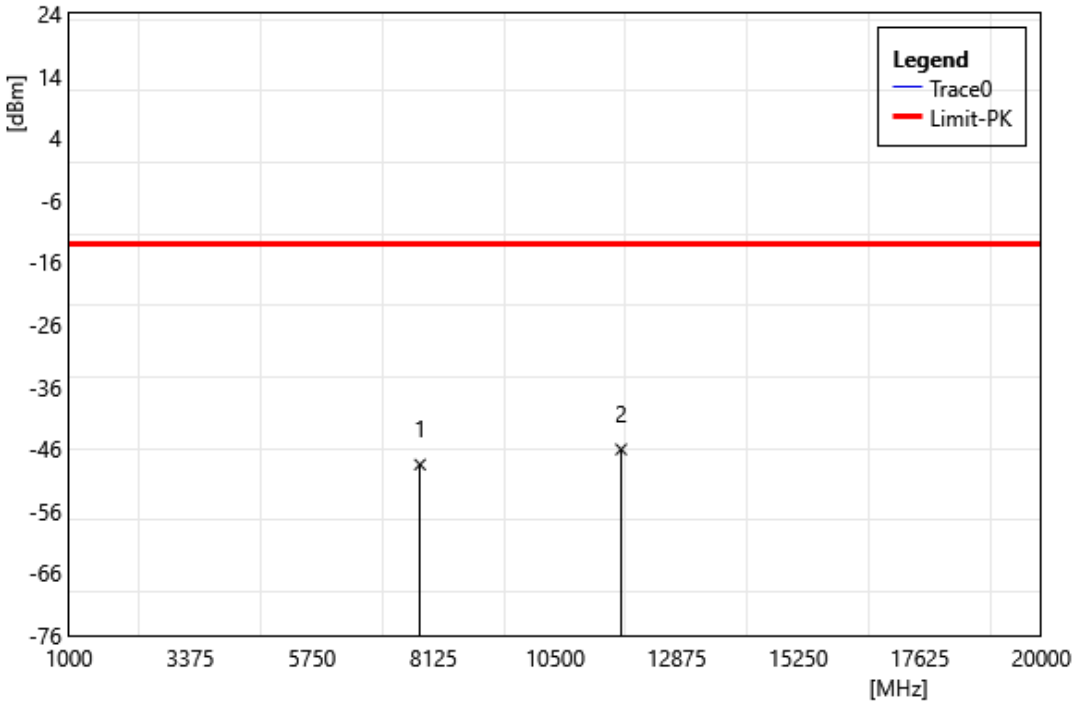
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7716.00	-56.21	6.85	-49.36	-13.00	-36.36	PEAK
2	11574.00	-54.75	7.67	-47.08	-13.00	-34.08	PEAK

Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n77 SA 30k QPSK		
	BW:100M 3930 MHz		
Polarization:	Horizontal		
Remark:			



ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7860.00	-55.50	6.17	-49.33	-13.00	-36.33	PEAK
2	11790.00	-54.54	7.62	-46.92	-13.00	-33.92	PEAK

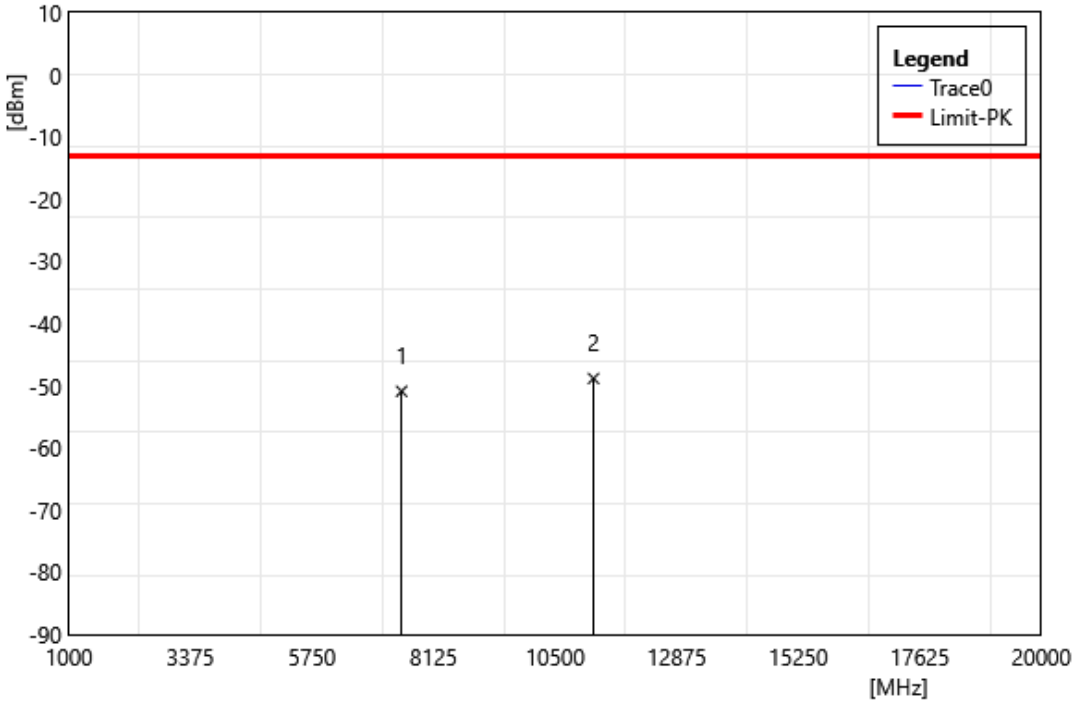
Test Site:	96603-WG	Standard:	Part 22H_24E_27_90_96
Test Mode:	n77 SA 30k QPSK		
	BW:100M 3930 MHz		
Polarization:	Vertical		
Remark:			



ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7860.00	-54.70	6.17	-48.53	-13.00	-35.53	PEAK
2	11790.00	-53.71	7.62	-46.09	-13.00	-33.09	PEAK

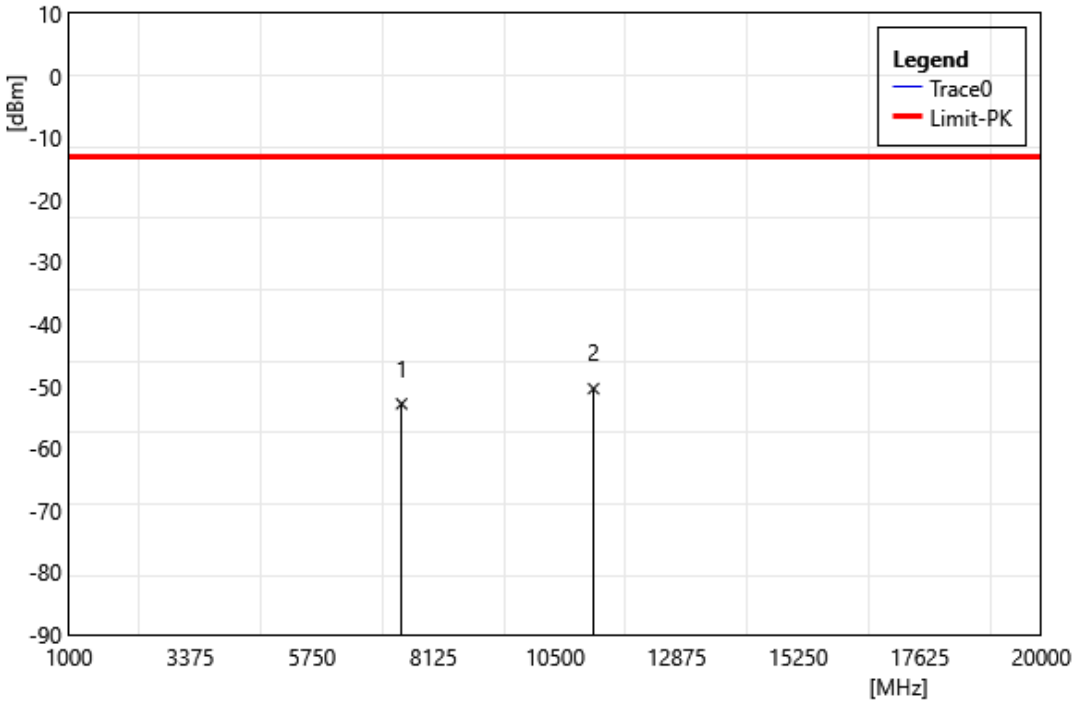
UL MIMO

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77 SA MIMO 30k QPSK		
	BW:100M 3750 MHz		
Polarization:	Horizontal		
Remark:			



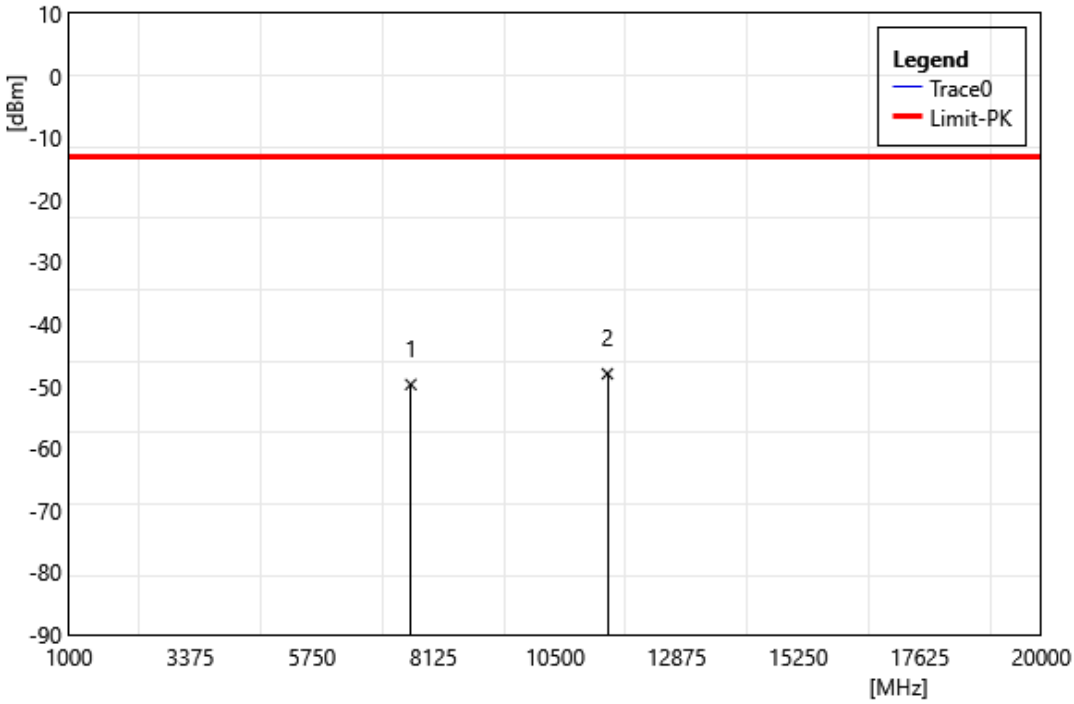
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7500.00	-57.67	6.78	-50.89	-13.00	-37.89	PEAK
2	11250.00	-56.48	7.64	-48.84	-13.00	-35.84	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77 SA MIMO 30k QPSK		
	BW:100M 3750 MHz		
Polarization:	Vertical		
Remark:			



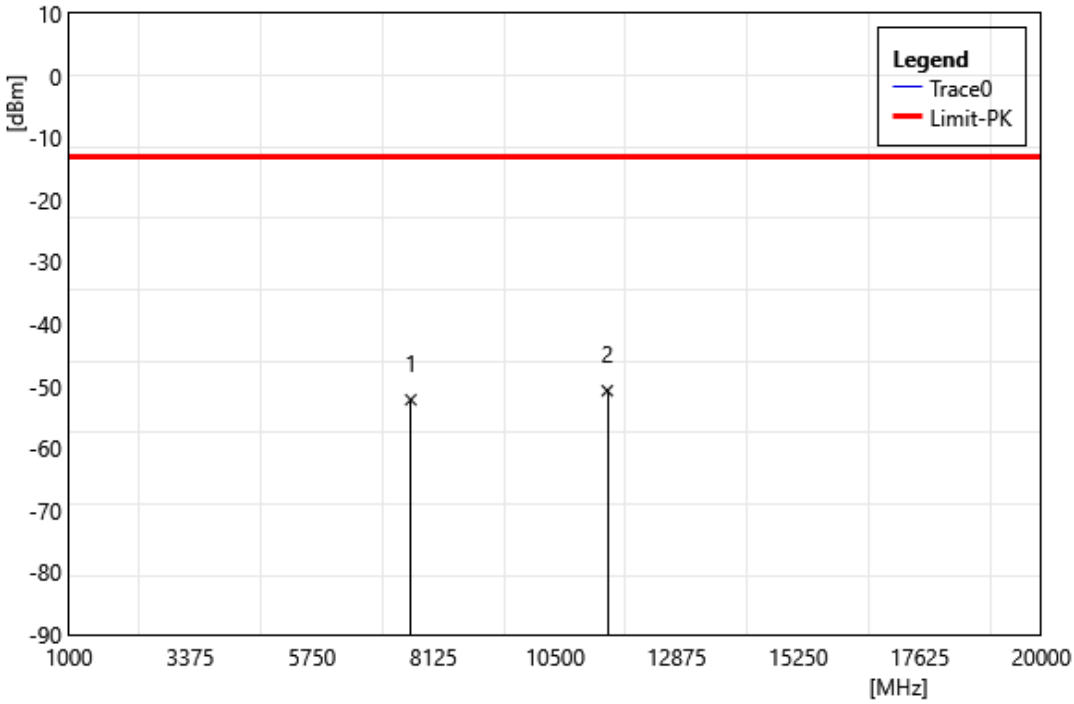
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7500.00	-59.63	6.78	-52.85	-13.00	-39.85	PEAK
2	11250.00	-58.05	7.64	-50.41	-13.00	-37.41	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77 SA MIMO 30k QPSK		
	BW:100M 3840 MHz		
Polarization:	Horizontal		
Remark:			



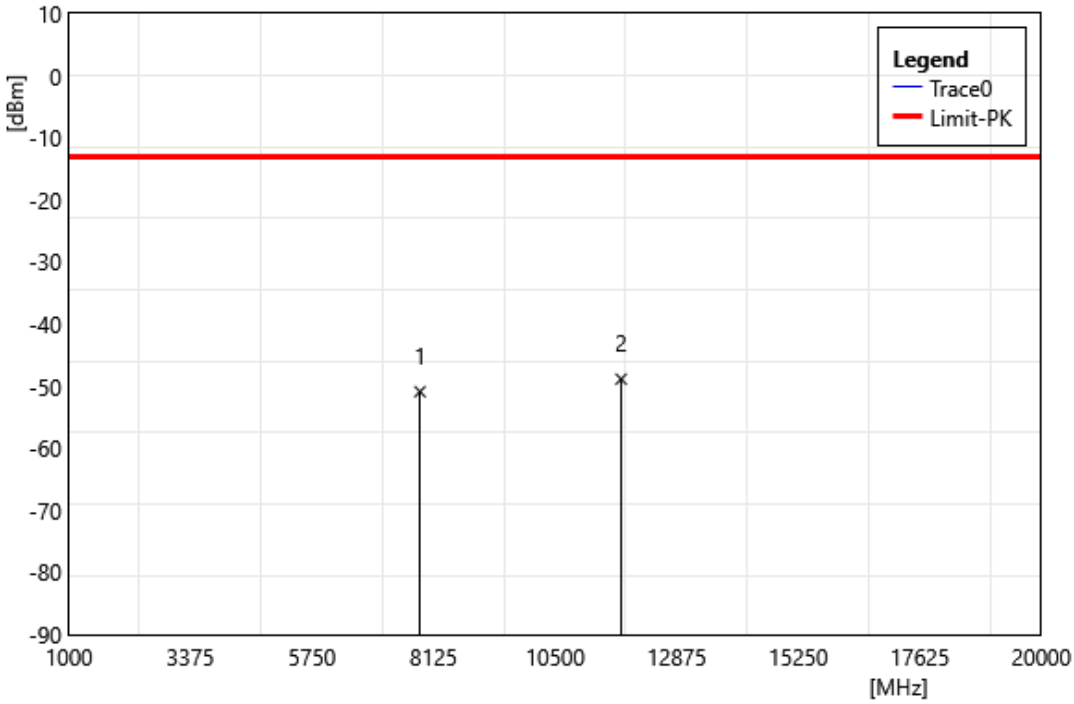
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7680.00	-56.58	6.84	-49.74	-13.00	-36.74	PEAK
2	11520.00	-55.58	7.57	-48.01	-13.00	-35.01	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77 SA MIMO 30k QPSK		
	BW:100M 3840 MHz		
Polarization:	Vertical		
Remark:			



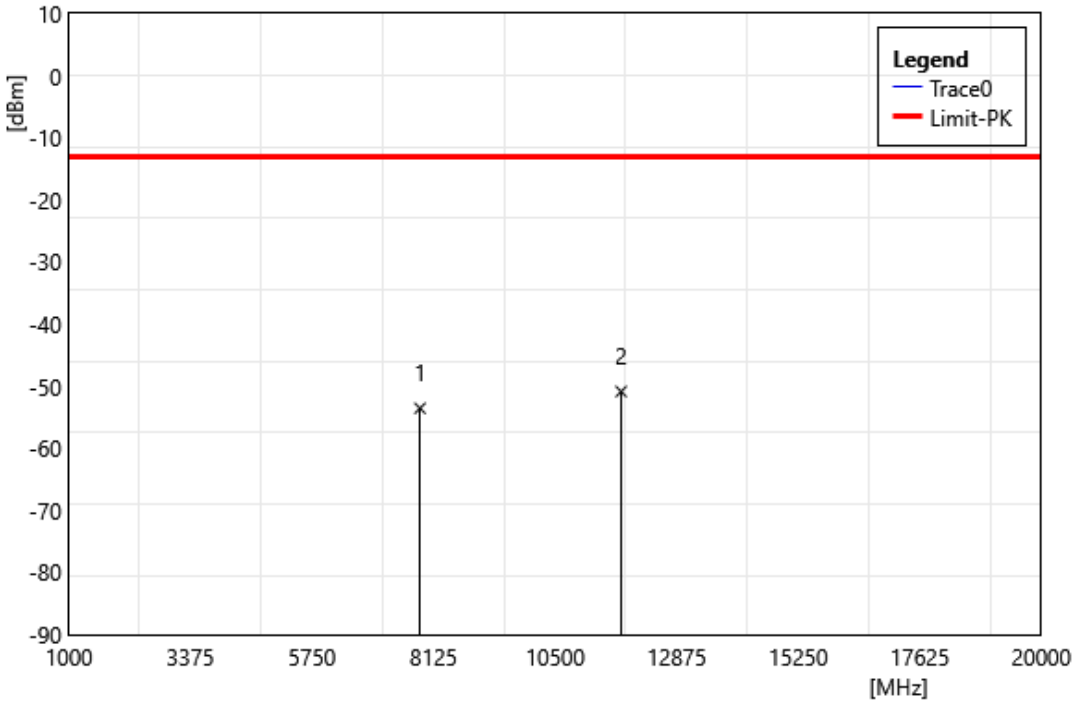
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7680.00	-59.03	6.84	-52.19	-13.00	-39.19	PEAK
2	11520.00	-58.31	7.57	-50.74	-13.00	-37.74	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77 SA MIMO 30k QPSK		
	BW:100M 3930 MHz		
Polarization:	Horizontal		
Remark:			



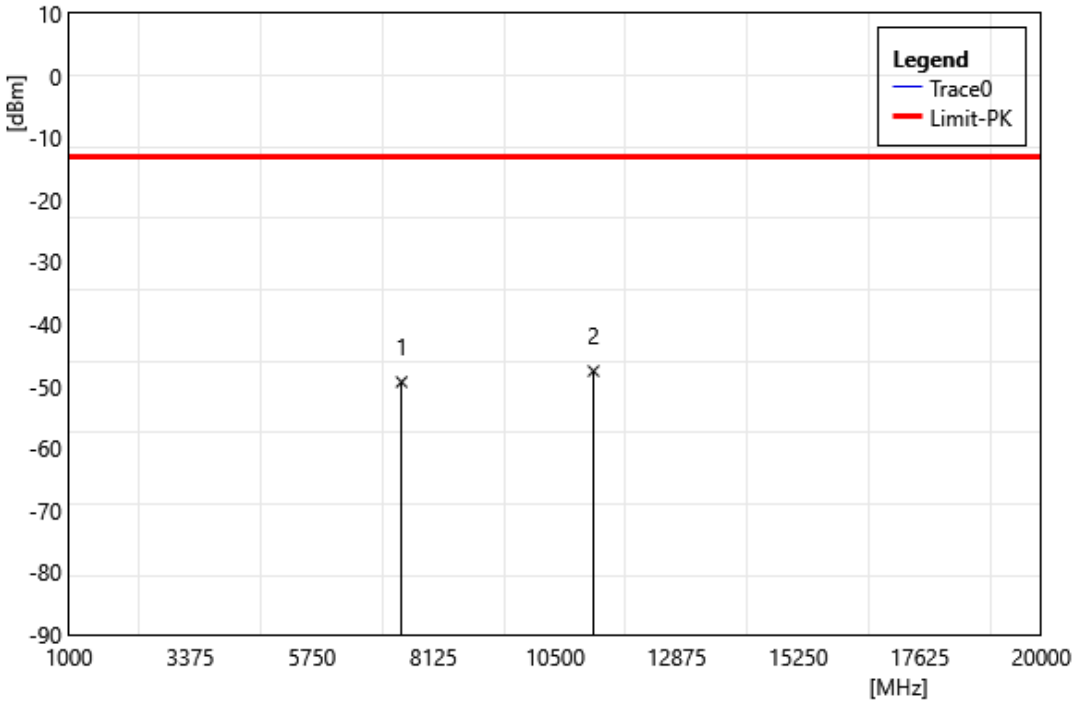
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7860.00	-57.07	6.17	-50.90	-13.00	-37.90	PEAK
2	11790.00	-56.49	7.62	-48.87	-13.00	-35.87	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n77 SA MIMO 30k QPSK		
	BW:100M 3930 MHz		
Polarization:	Vertical		
Remark:			



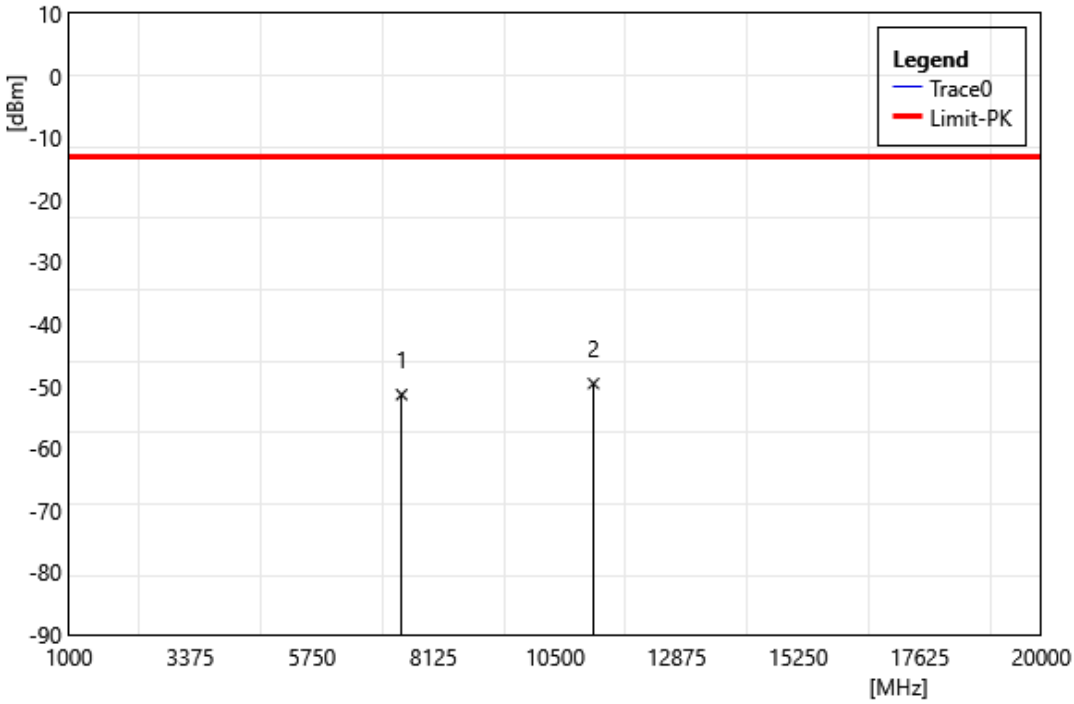
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7860.00	-59.72	6.17	-53.55	-13.00	-40.55	PEAK
2	11790.00	-58.49	7.62	-50.87	-13.00	-37.87	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n78 SA MIMO 30k QPSK		
	BW:100M 3750 MHz		
Polarization:	Horizontal		
Remark:			



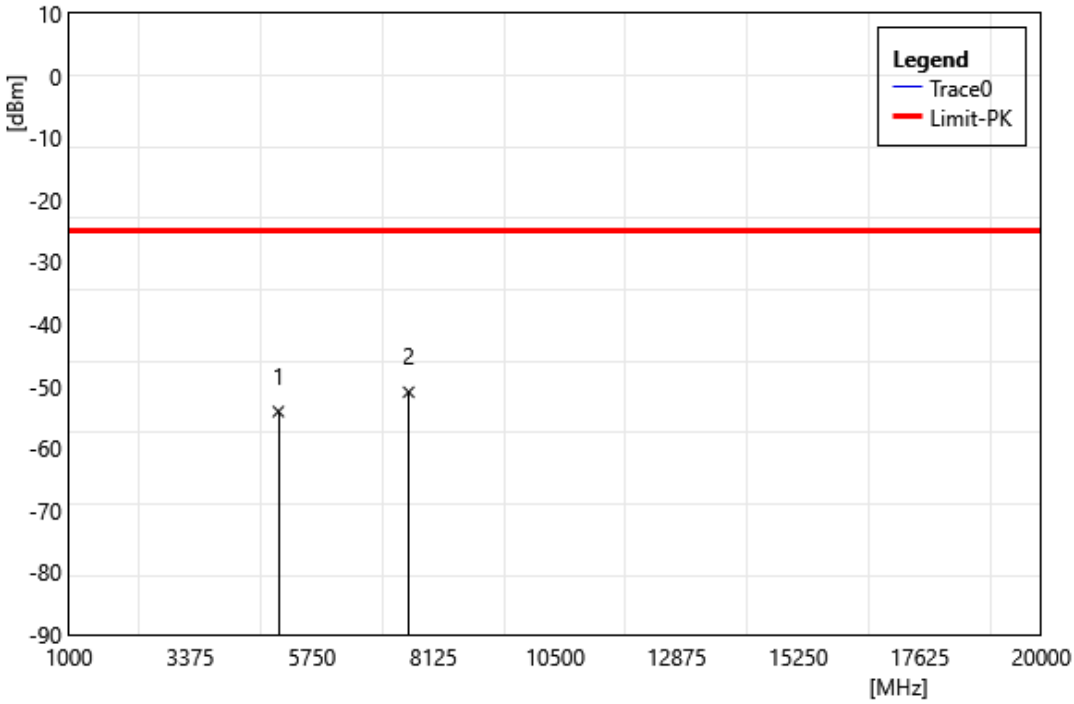
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7500.00	-56.11	6.78	-49.33	-13.00	-36.33	PEAK
2	11250.00	-55.21	7.64	-47.57	-13.00	-34.57	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n78 SA MIMO 30k QPSK		
	BW:100M 3750 MHz		
Polarization:	Vertical		
Remark:			



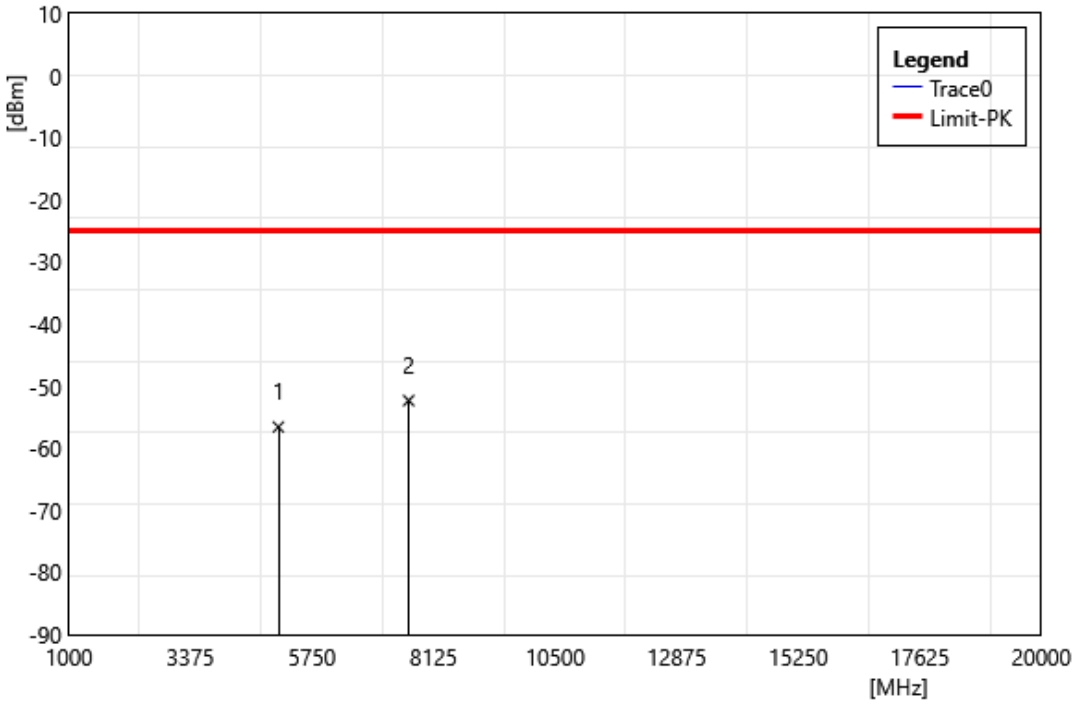
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	7500.00	-58.15	6.78	-51.37	-13.00	-38.37	PEAK
2	11250.00	-57.22	7.64	-49.58	-13.00	-36.58	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n41 SA MIMO 30k QPSK		
	BW:100M 2546.01 MHz		
Polarization:	Horizontal		
Remark:			



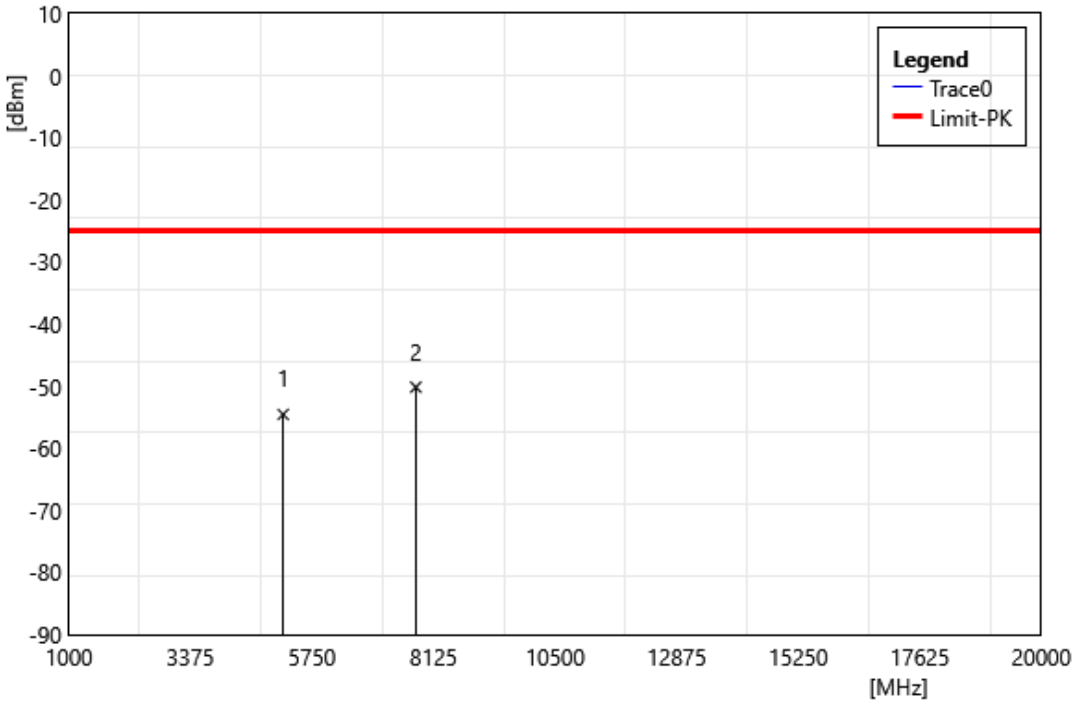
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5092.02	-55.80	1.71	-54.09	-25.00	-29.09	PEAK
2	7638.03	-57.68	6.71	-50.97	-25.00	-25.97	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n41 SA MIMO 30k QPSK		
	BW:100M 2546.01 MHz		
Polarization:	Vertical		
Remark:			



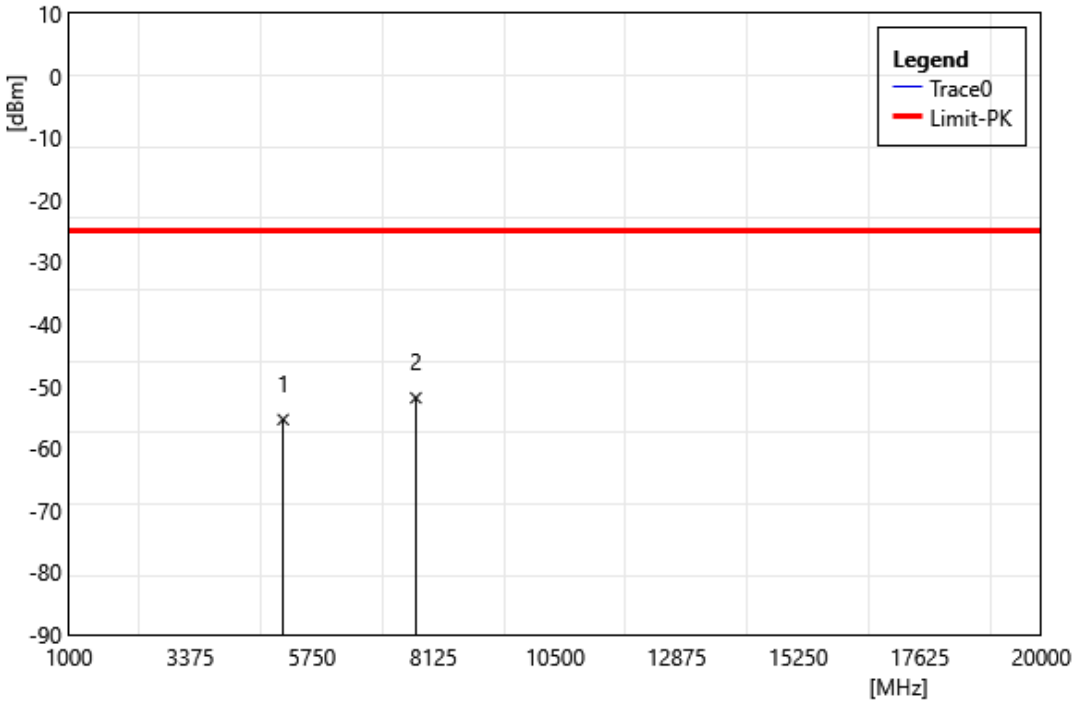
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5092.02	-58.28	1.71	-56.57	-25.00	-31.57	PEAK
2	7638.03	-59.03	6.71	-52.32	-25.00	-27.32	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n41 SA MIMO 30k QPSK		
	BW:100M 2592.99 MHz		
Polarization:	Horizontal		
Remark:			



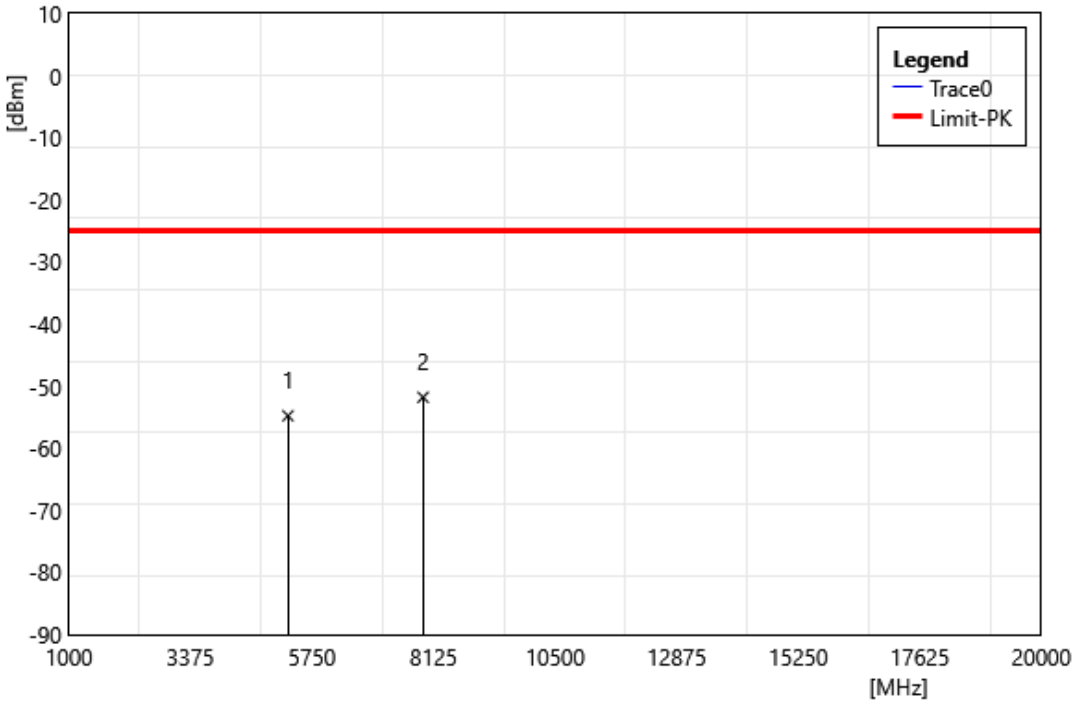
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5185.98	-56.29	1.74	-54.55	-25.00	-29.55	PEAK
2	7778.97	-56.66	6.50	-50.16	-25.00	-25.16	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n41 SA MIMO 30k QPSK		
	BW:100M 2592.99 MHz		
Polarization:	Vertical		
Remark:			



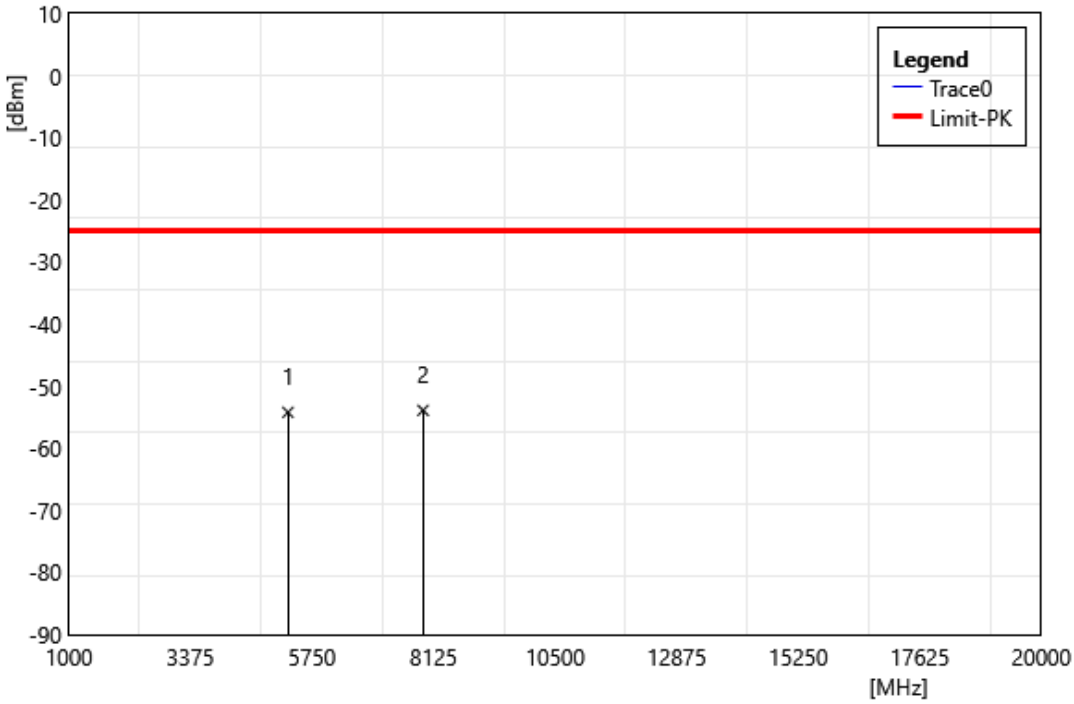
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5185.98	-57.11	1.74	-55.37	-25.00	-30.37	PEAK
2	7778.97	-58.38	6.50	-51.88	-25.00	-26.88	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n41 SA MIMO 30k QPSK		
	BW:100M 2640 MHz		
Polarization:	Horizontal		
Remark:			



ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5280.00	-56.15	1.38	-54.77	-25.00	-29.77	PEAK
2	7920.00	-57.85	6.06	-51.79	-25.00	-26.79	PEAK

Test Site:	96603-WG	Standard:	Part 27
Test Mode:	n41 SA MIMO 30k QPSK		
	BW:100M 2640 MHz		
Polarization:	Vertical		
Remark:			



ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	5280.00	-55.58	1.38	-54.20	-25.00	-29.20	PEAK
2	7920.00	-59.95	6.06	-53.89	-25.00	-28.89	PEAK

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