SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Shenzhen, Guangdong, China 518057

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TEST REPORT

Application No.:	SZEM1802001299CR
Applicant:	Hytera Communications Corporation Limited
Address of Applicant:	Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, 518057, China
Manufacturer:	Hytera Communications Corporation Limited
Address of Manufacturer:	Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, 518057, China
Factory:	Hytera Communications Corporation Limited Baolong Branch
Address of Factory:	Plant No.3, Hytera Hi-Tech Park, Baolong Industrial Area, Longgang District, Shenzhen, People's Republic of China
Equipment Under Test (EUT):	
EUT Name:	Multi-mode Radio
Model No.:	PDC760 V1B1
Trade mark:	Hytera
FCC ID:	YAMPDC760V1B1
Standard(s):	47 CFR Part 90
Date of Receipt:	2018-02-11
Date of Test:	2018-03-01 to 2018-03-16
Date of Issue:	2018-04-09
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2018-04-09		Original

Authorized for issue by:				
				
		Edison Li /Project Engineer		
				
		Eric Fu /Reviewer		

2 Test Summary

Radio Spectrum Technical Requirement				
Item	**Standard**	**Method**	**Requirement**	**Result**
Antenna Requirement	47 CFR FCC Part90	N/A	47 CFR Part 90.205(g,h)	Pass

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
RF Power Output	47 CFR FCC Part90	ANSI/TIA-603-D:2010 ANSI C63.4.2014 TIA-102 CCAA-A TIA-102 CCAB-D TIA-102 CCAA-D ANSI C63.26-2015	47 CFR FCC Part 2.1046, Part90.205	Pass
Frequency Stability	47 CFR FCC Part90		47 CFR FCC Part 2.1055, Part90.213	Pass
Audio Frequency Response	47 CFR FCC Part90		47 CFR FCC Part2.1047, Part90.212	Pass
Modulation Limiting	47 CFR FCC Part90		47 CFR FCC Part2.1047, Part90.212,	Pass
Occupied Bandwidth	47 CFR FCC Part90		47 CFR FCC Part 2.1049, Part90.209	Pass
Transient Frequency Behaviour	47 CFR FCC Part90		47 CFR FCC Part90.214	Pass
Conducted Spurious Emission	47 CFR FCC Part90		47 CFR FCC Part 2.1051, Part90.210	Pass
Radiated Spurious Emission	47 CFR FCC Part90		47 CFR FCC Part 2.1051, Part90.210	Pass

3 Contents

4 General Information

4.1 Details of E.U.T.

Power supply:	DC 7.6V, 2900mAh Li-ion battery which charged by MCU Charger MCU Charger Model: CH20L08 Input: DC 12V, 2000mA Output: DC12V, 2000mA AC Adapter Model: HKA02412020-XG Input: AC 100-240V, 50/60Hz, 0.8A Output: DC 12V, 2A
Test voltage:	DC 7.6V
Cable:	DC cable: 171cm unshielded
Internal source:	More than 108MHz
Operation Frequency:	136-174MHz
Modulation Type:	FM for Analog; 4FSK for Digital
Channel Separation:	12.5KHz & 25KHz for FM; 12.5KHz for 4FSK
Number of Channels:	The equipment is able to operate on any designated channel within the specified frequency range.
Antenna Type:	External

4.2 Description of Support Units

The EUT has been tested independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25×10^{-8}
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	RF Radiated power	4.5dB (below 1GHz)
		4.8dB (above 1GHz)
8	Radiated Spurious emission test	4.5dB (Below 1GHz)
		4.8dB (Above 1GHz)
9	Temperature test	1℃
10	Humidity test	3%
11	Supply voltages	1.5%

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

RF conducted test					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Vector Signal Generator	Rohde & Schwarz	SMU200	105050	2017.11.09	2018.11.08
Spectrum analyzer	Rohde & Schwarz	FSV	102389	2017.11.09	2018.11.09
Signal Generator	Rohde & Schwarz	SMB100A	106638	2017.11.09	2018.11.09
Signal Generator	Rohde & Schwarz	SMB100A	106636	2017.11.09	2018.11.09
Attenuator Control Unit	Agilent	J7211A	HYT143117	N/A	N/A
DC Power Supply	HP	6652A	3347A01324	2017.05.04	2018.05.03
DC Power Supply	Chroma	6202P-100-50	62012PE0251 0	N/A	N/A
Attenuator	Shanghai huaxiang	WDTS500-40dB-8G	16051603	N/A	N/A
SPLITTER	Mini-Circuits	ZFSC-3-+	BUU47601527	N/A	N/A
Audio Analyzer	Rohde & Schwarz	UPL	SEM008-01	2017-09-27	2018-09-26

Radiated Spurious Emissions					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2017-07-13	2018-07-12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-13
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-26
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2017-09-27	2018-09-27
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2017-12-04	2018-12-03
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Band filter	N/A	N/A	SEM023-01	N/A	N/A

RE in Chamber					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2017-09-27	2018-09-26
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2017-04-14	2018-04-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2017-07-13	2018-07-12

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2017-09-29	2018-09-28
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-17

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part90.205

6.1.2 Conclusion

90.205 Requirement:

(d) 150-174 MHz. (1) The maximum allowable station ERP is dependent upon the station's antenna HAAT and required service area and will be authorized in accordance with table 1. Applicants requesting an ERP in excess of that listed in table 1 must submit an engineering analysis based upon generally accepted engineering practices and standards that includes coverage contours to demonstrate that the requested station parameters will not produce coverage in excess of that which the applicant requires.

(2) Applications for stations where special circumstances exist that make it necessary to deviate from the ERP and antenna heights in Table 1 will be submitted to the frequency coordinator accompanied by a technical analysis, based upon generally accepted engineering practices and standards, that demonstrates that the requested station parameters will not produce a signal strength in excess of 37 dBu at any point along the edge of the requested service area. The coordinator may then recommend any ERP appropriate to meet this condition.

(3) An applicant for a station with a service area radius greater than 40 km (25 mi) must justify the requested service area radius, which will be authorized only in accordance with table 1, note 4. For base stations with service areas greater than 80 km, all operations 80 km or less from the base station will be on a primary basis and all operations outside of 80 km from the base station will be on a secondary basis and will be entitled to no protection from primary operations.

EUT Antenna:

Antenna location: Refer to Appendix(External photos)

7 Radio Spectrum Matter Test Results

7.1 RF Power Output

Test Requirement 47 CFR FCC Part2.1046 & FCC Part90.205;

Test Method: ANSI/TIA-603-D:2010; ANSI C63.4.2014; TIA-102 CCAA-A; TIA-102 CCAB-D; TIA-102 CCAA-D; ANSI C63.26-2015

Limit:

For FCC Part 90.205:

(d) 150-174 MHz. (1) The maximum allowable station ERP is dependent upon the station's antenna HAAT and required service area and will be authorized in accordance with table 1. Applicants requesting an ERP in excess of that listed in table 1 must submit an engineering analysis based upon generally accepted engineering practices and standards that includes coverage contours to demonstrate that the requested station parameters will not produce coverage in excess of that which the applicant requires.

(2) Applications for stations where special circumstances exist that make it necessary to deviate from the ERP and antenna heights in Table 1 will be submitted to the frequency coordinator accompanied by a technical analysis, based upon generally accepted engineering practices and standards, that demonstrates that the requested station parameters will not produce a signal strength in excess of 37 dBu at any point along the edge of the requested service area. The coordinator may then recommend any ERP appropriate to meet this condition.

(3) An applicant for a station with a service area radius greater than 40 km (25 mi) must justify the requested service area radius, which will be authorized only in accordance with table 1, note 4. For base stations with service areas greater than 80 km, all operations 80 km or less from the base station will be on a primary basis and all operations outside of 80 km from the base station will be on a secondary basis and will be entitled to no protection from primary operations.

Table 1—150-174MHz—Maximum ERP/Reference HAAT for a Specific Service Area Radius

	Service area radius (km)									
	3	**8**	**13**	**16**	**24**	**32**	**40**	**48[4]**	**64[4]**	**80[4]**
Maximum ERP (w)[1]	1	28	178	[2]500	[2]500	[2]500	500	[2]500	[2]500	[2]500
Up to reference HAAT (m)[3]	15	15	15	15	33	65	110	160	380	670

[1]Maximum ERP indicated provides for a 37 dBu signal strength at the edge of the service area per FCC Report R-6602, Fig. 19 (See §73.699, Fig. 10).

[2]Maximum ERP of 500 watts allowed. Signal strength at the service area contour may be less than 37 dBu.

[3]When the actual antenna HAAT is greater than the reference HAAT, the allowable ERP will be reduced in accordance with the following equation: $ERP_{allow} = ERPmax \times (HAAT_{ref} / HAAT_{actual})^2$.

[4]Applications for this service area radius may be granted upon specific request with justification and must include a technical demonstration that the signal strength at the edge of the service area does not exceed 37 dBu.

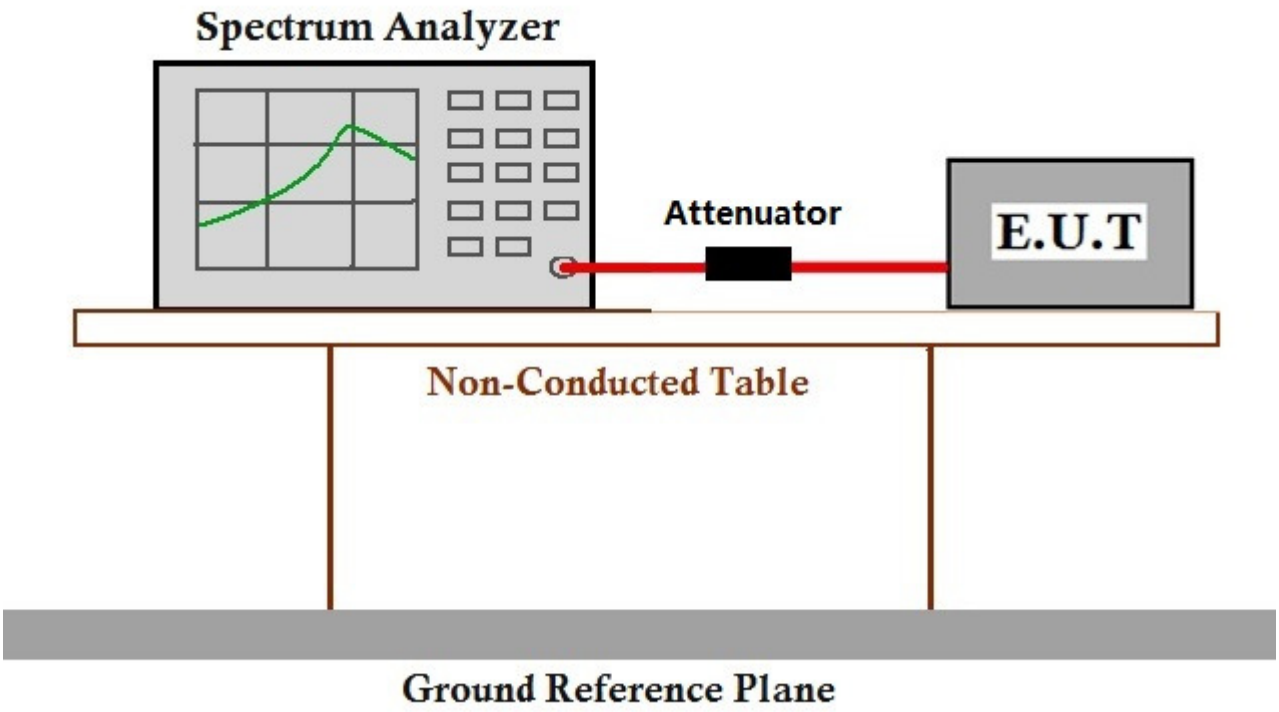
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 49.3 % RH Atmospheric Pressure: 1020 mbar

Test mode: p: Tx mode, Keep the EUT in transmitting mode.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix FCC data.

7.2 Frequency Stability

Test Requirement 47 CFR FCC Part2.1055 & FCC Part90.213;

Test Method: ANSI/TIA-603-D:2010; ANSI C63.4.2014; TIA-102 CCAA-A; TIA-102 CCAB-D; TIA-102 CCAA-D; ANSI C63.26-2015

Limit:

For FCC Part 90.213:

Frequency range (MHz)	Fixed and base stations	Mobile stations	
		Over 2 watts output power	2 watts or less output power
Below 25	[1] [2] [3] 100	100	200
25-50	20	20	50
72-76	5		50
150-174	[5] [11] 5	[6] 5	[4] [6] 50
216-220	1.0		1.0
220-222[12]	0.1	1.5	1.5
421-512	[7] [11] [14] 2.5	[8] 5	[8] 5
806-809	[14] 1.0	1.5	1.5
809-824	[14] 1.5	2.5	2.5
851-854	1.0	1.5	1.5
854-869	1.5	2.5	2.5
896-901	[14] 0.1	1.5	1.5
902-928	2.5	2.5	2.5
902-928[13]	2.5	2.5	2.5
929-930	1.5		
935-940	0.1	1.5	1.5
1427-1435	[9] 300	300	300
Above 2450[10]			

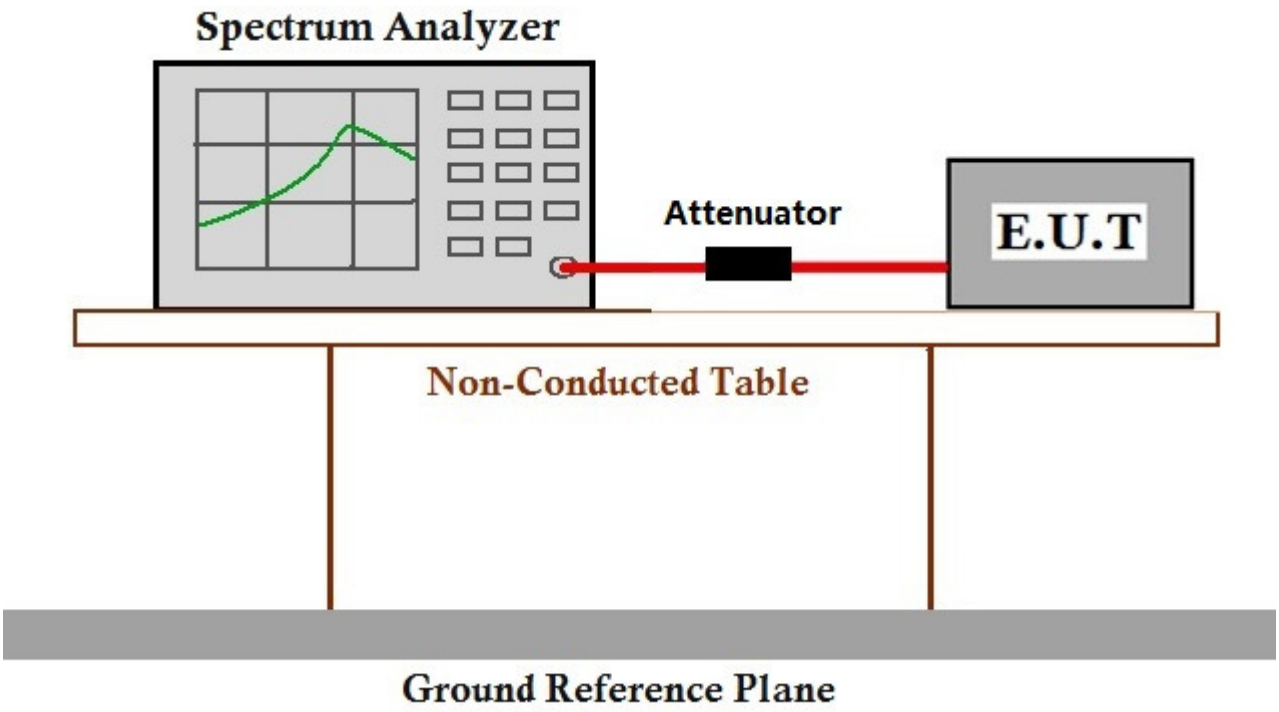
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 49.2 % RH Atmospheric Pressure: 1020 mbar

Test mode: p: Tx mode, Keep the EUT in transmitting mode.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix FCC data.

7.3 Modulation characteristics

Test Requirement 47 CFR FCC Part2.1047 & FCC Part90.212;

Test Method: ANSI/TIA-603-D:2010; ANSI C63.4.2014; TIA-102 CCAA-A; TIA-102 CCAB-D; TIA-102 CCAA-D; ANSI C63.26-2015

Limit:

For FCC Part 90.212:

(a) Analog scrambling techniques may be employed at any station authorized the use of A3E, F3E, or G3E emission, subject to the provision of paragraph (d) of this section.

(b) The use of digital scrambling techniques or digital voice modulation requires the specific authorization of F1E or G1E emission, and these emissions will only be authorized subject to the provisions of paragraph (d) of this section.

(c) The transmission of any non-voice information or data under the authorization of F1E or G1E emission is prohibited. However, stations authorized the use of F1E or G1E emission may also be authorized F1D, F2D, G1D or G2D emission for non-voice communication purposes, pursuant to §90.207(l).

(d) Station identification shall be transmitted in the unscrambled analog mode (clear voice) or Morse code in accordance with the provisions of §90.425. All digital encoding and digital modulation shall be disabled during station identification.

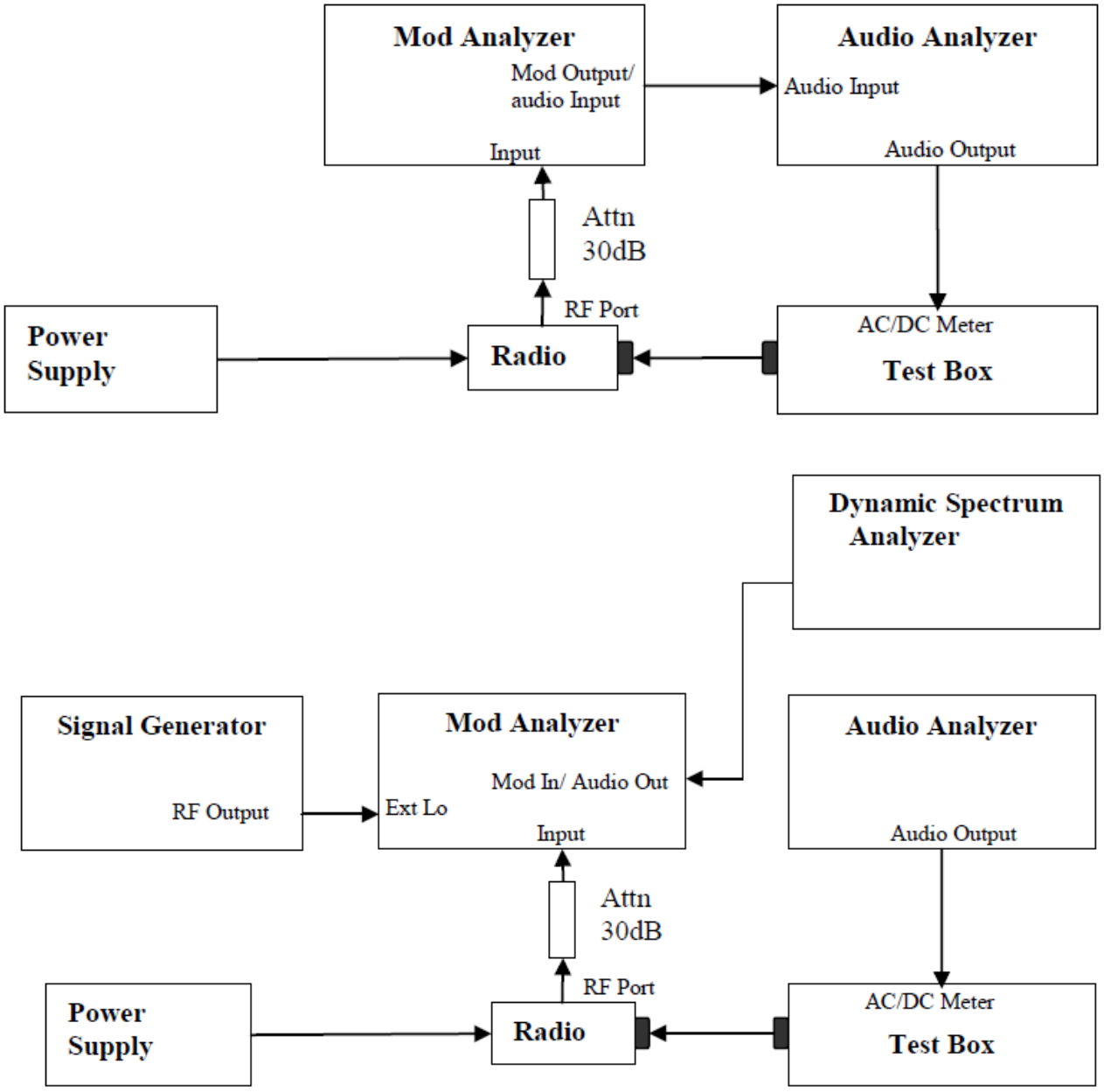
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 49.2 % RH Atmospheric Pressure: 1020 mbar

Test mode: p: Tx mode, Keep the EUT in transmitting mode.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix FCC data.

7.4 Occupied Bandwidth

Test Requirement 47 CFR FCC Part2.1049 & FCC Part90.209;

Test Method: ANSI/TIA-603-D:2010; ANSI C63.4.2014; TIA-102 CCAA-A; TIA-102 CCAB-D; TIA-102 CCAA-D; ANSI C63.26-2015

Limit:

For FCC Part 90.209:

(a) Each authorization issued to a station licensed under this part will show an emission designator representing the class of emission authorized. The designator will be prefixed by a specified necessary bandwidth. This number does not necessarily indicate the bandwidth occupied by the emission at any instant. In those cases where §2.202 of this chapter does not provide a formula for the computation of necessary bandwidth, the occupied bandwidth, as defined in part 2 of this chapter, may be used in lieu of the necessary bandwidth.

(b) The maximum authorized single channel bandwidth of emission corresponding to the type of emission specified in §90.207 is as follows:

(1) For A1A or A1B emissions, the maximum authorized bandwidth is 0.25 kHz. The maximum authorized bandwidth for type A3E emission is 8 kHz.

(2) For operations below 25 MHz utilizing J3E emission, the bandwidth occupied by the emission shall not exceed 3000 Hz. The assigned frequency will be specified in the authorization. The authorized carrier frequency will be 1400 Hz lower in frequency than the assigned frequency. Only upper sideband emission may be used. In the case of regularly available double sideband radiotelephone channels, an assigned frequency for J3E emissions is available either 1600 Hz below or 1400 Hz above the double sideband radiotelephone assigned frequency.

(3) For all other types of emissions, the maximum authorized bandwidth shall not be more than that normally authorized for voice operations.

(4) Where a frequency is assigned exclusively to a single licensee, more than a single emission may be used within the authorized bandwidth. In such cases, the frequency stability requirements of §90.213 must be met for each emission.

(5) Unless specified elsewhere, channel spacings and bandwidths that will be authorized in the following frequency bands are given in the following table.

band (MHz)	Channel spacing (kHz)	Authorized bandwidth (kHz)
Below 25[2]		
25-50	20	20
72-76	20	20
150-174	[1]7.5	[1 3]20/11.25/6
216-220[5]	6.25	20/11.25/6
220-222	5	4
406-512[2]	[1]6.25	[136]20/11.25/6
806-809/851-854	12.5	20
809-824/854-869	25	[6]20
896-901/935-940	12.5	13.6
902-928[4]		
929-930	25	20

1427-1432[5]	12.5	12.5
[3]2450-2483.5[2]		
Above 2500[2]		

[1]For stations authorized on or after August 18, 1995.

[2]Bandwidths for radiolocation stations in the 420-450 MHz band and for stations operating in bands subject to this footnote will be reviewed and authorized on a case-by-case basis.

[3]Operations using equipment designed to operate with a 25 kHz channel bandwidth will be authorized a 20 kHz bandwidth. Operations using equipment designed to operate with a 12.5 kHz channel bandwidth will be authorized a 11.25 kHz bandwidth. Operations using equipment designed to operate with a 6.25 kHz channel bandwidth will be authorized a 6 kHz bandwidth. All stations must operate on channels with a bandwidth of 12.5 kHz or less beginning January 1, 2013, unless the operations meet the efficiency standard of §90.203(j)(3).

[4]The maximum authorized bandwidth shall be 12 MHz for non-multilateration LMS operations in the band 909.75-921.75 MHz and 2 MHz in the band 902.00-904.00 MHz. The maximum authorized bandwidth for multilateration LMS operations shall be 5.75 MHz in the 904.00-909.75 MHz band; 2 MHz in the 919.75-921.75 MHz band; 5.75 MHz in the 921.75-927.25 MHz band and its associated 927.25-927.50 MHz narrowband forward link; and 8.00 MHz if the 919.75-921.75 MHz and 921.75-927.25 MHz bands and their associated 927.25-927.50 MHz and 927.50-927.75 MHz narrowband forward links are aggregated.

[5]See §90.259.

[6]Operations using equipment designed to operate with a 25 kHz channel bandwidth may be authorized up to a 22 kHz bandwidth if the equipment meets the Adjacent Channel Power limits of §90.221.

(6)(i) Beginning January 1, 2011, no new applications for the 150-174 MHz and/or 421-512 MHz bands will be acceptable for filing if the applicant utilizes channels with an authorized bandwidth exceeding 11.25 kHz, unless specified elsewhere or the operations meet the efficiency standards of §90.203(j)(3).

(ii) Beginning January 1, 2011, no modification applications for stations in the 150-174 MHz and/or 421-512 MHz bands that increase the station's authorized interference contour, will be acceptable for filing if the applicant utilizes channels with an authorized bandwidth exceeding 11.25 kHz, unless specified elsewhere or the operations meet the efficiency standards of §90.203(j)(3). See §90.187(b)(2)(iii) and (iv) for interference contour designations and calculations. Applications submitted pursuant to this paragraph must comply with frequency coordination requirements of §90.175.

(7) Economic Area (EA)-based licensees in frequencies 817-824/862-869 MHz (813.5-824/858.5-869 MHz in the counties listed in §90.614(c)) may exceed the standard channel spacing and authorized bandwidth listed in paragraph (b)(5) of this section in any National Public Safety Planning Advisory Committee Region when all 800 MHz public safety licensees in the Region have completed band reconfiguration consistent with this part. In any National Public Safety Planning Advisory Committee Region where the 800 MHz band reconfiguration is incomplete, EA-based licensees in frequencies 817-821/862-866 MHz (813.5-821/858.5-866 MHz in the counties listed in §90.614(c)) may exceed the standard channel spacing and authorized bandwidth listed in paragraph (b)(5) of this section. Upon all 800 MHz public safety licensees in a National Public Safety Planning Advisory Committee Region completing band reconfiguration, EA-based 800 MHz SMR licensees in the 821-824/866-869 MHz band may exceed the channel spacing and authorized bandwidth in paragraph (b)(5) of this section. Licensees authorized to exceed the standard channel spacing and authorized bandwidth under this paragraph must provide at least 30 days written notice prior to initiating such service in the bands listed herein to every 800 MHz public safety licensee with a base station in an affected National Public Safety Planning Advisory Committee Region, and every 800 MHz public safety licensee with a base station within 113 kilometers (70 miles) of an affected National Public Safety Planning Advisory Committee Region. Such notice shall include the estimated date upon which the EA-based 800 MHz SMR licensee intends to begin operations that exceed the channel spacing and authorized bandwidth in paragraph (b)(5) of this section.

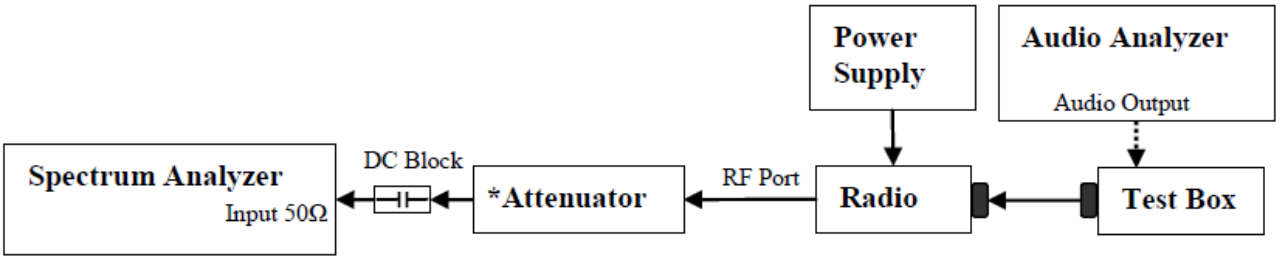
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 49.2 % RH Atmospheric Pressure: 1020 mbar

Test mode: p: Tx mode, Keep the EUT in transmitting mode.

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix FCC data.

7.5 Transient Frequency Behaviour

Test Requirement 47 CFR FCC Part 90.214

Test Method: ANSI/TIA-603-D:2010; ANSI C63.4.2014; TIA-102 CCAA-A; TIA-102 CCAB-D; TIA-102 CCAA-D; ANSI C63.26-2015

Limit:

Time intervals[1] [2]	Maximum frequency difference[3]	All equipment	
		150 to 174 MHz	421 to 512 MHz
Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels			
t_1[4]	±25.0 kHz	5.0 ms	10.0 ms
t_2	±12.5 kHz	20.0 ms	25.0 ms
t_3[4]	±25.0 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels			
t_1[4]	±12.5 kHz	5.0 ms	10.0 ms
t_2	±6.25 kHz	20.0 ms	25.0 ms
t_3[4]	±12.5 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels			
t_1[4]	±6.25 kHz	5.0 ms	10.0 ms
t_2	±3.125 kHz	20.0 ms	25.0 ms
t_3[4]	±6.25 kHz	5.0 ms	10.0 ms

[1]on is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing.

t_1 is the time period immediately following t_{on}.

t_2 is the time period immediately following t_1.

t_3 is the time period from the instant when the transmitter is turned off until t_{off}.

t_{off} is the instant when the 1 kHz test signal starts to rise.

[2] During the time from the end of t_2 to the beginning of t_3, the frequency difference must not exceed the limits specified in §90.213.

[3] Difference between the actual transmitter frequency and the assigned transmitter frequency.

[4] If the transmitter carrier output power rating is 6 watts or less, the frequency difference during this time period may exceed the maximum frequency difference for this time period.

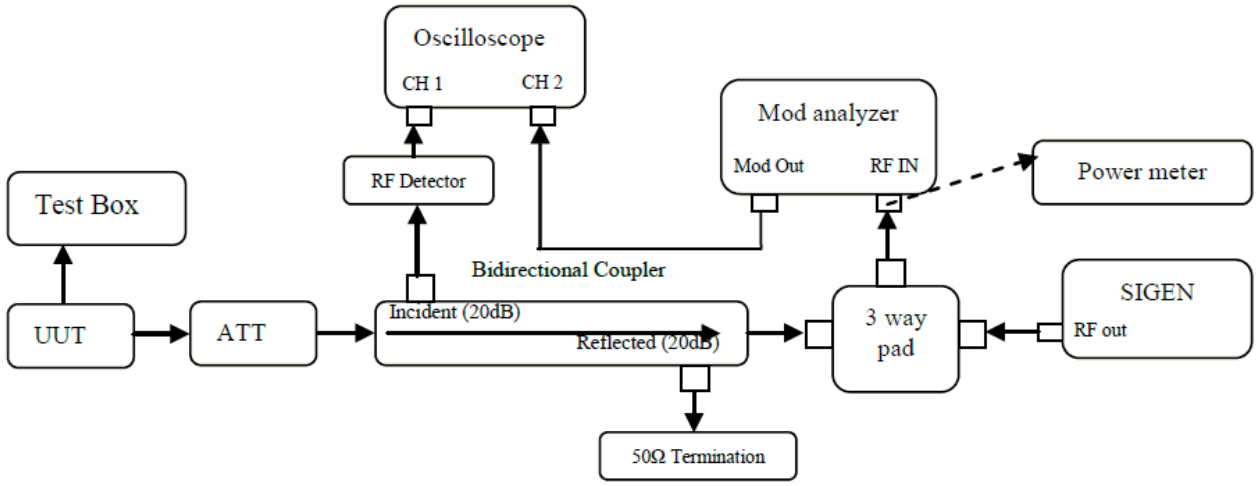
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 48 % RH Atmospheric Pressure: 1020 mbar

Test mode: p: Tx mode, Keep the EUT in transmitting mode.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix FCC data.

7.6 Conducted Spurious Emissions

Test Requirement 47 CFR FCC Part2.1051 & FCC Part90.210;

Test Method: ANSI/TIA-603-D:2010; ANSI C63.4.2014; TIA-102 CCAA-A; TIA-102 CCAB-D; TIA-102 CCAA-D; ANSI C63.26-2015

Limit:

For FCC Part 90.210:

Frequency band (MHz)	Mask for equipment with audio low pass filter	Mask for equipment without audio low pass filter
Below 25[1]	A or B	A or C
25-50	B	C
72-76	B	C
150-174[2]	B, D, or E	C, D or E
150 paging only	B	C
220-222	F	F
421-512[2 5]	B, D, or E	C, D, or E
450 paging only	B	G
806-809/851-854[6]	B	H
809-824/854-869[3 5]	B	G
896-901/935-940	I	J
902-928	K	K
929-930	B	G
4940-4990 MHz	L or M	L or M
5850-5925[4]		
All other bands	B	C

(b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.

(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

(c) Emission Mask C. For transmitters that are not equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier output power (P) as follows:

(1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 5 kHz, but not more than 10 kHz: At least 83 log (fd/5) dB;

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 10 kHz, but not more than 250 percent of the authorized bandwidth: At least 29 log (fd2/11) dB or 50 dB, whichever is the lesser attenuation;

(3) On any frequency removed from the center of the authorized bandwidth by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

(4) In the 1427-1432 MHz band, licensees are encouraged to take all reasonable steps to ensure that unwanted emissions power does not exceed the following levels in the 1400-1427 MHz band:

(i) For stations of point-to-point systems in the fixed service: –45 dBW/27 MHz.

(ii) For stations in the mobile service: –60 dBW/27 MHz.

(d) Emission Mask D—12.5 kHz channel bandwidth equipment. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(1) On any frequency from the center of the authorized bandwidth f0 to 5.625 kHz removed from f0: Zero dB.

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least 7.27(fd–2.88 kHz) dB.

(3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 12.5 kHz: At least 50 + 10 log (P) dB or 70 dB, whichever is the lesser attenuation.

(4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

(e) Emission Mask E—6.25 kHz or less channel bandwidth equipment. For transmitters designed to operate with a 6.25 kHz or less bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(1) On any frequency from the center of the authorized bandwidth f0 to 3.0 kHz removed from f0: Zero dB.

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 3.0 kHz but no more than 4.6 kHz: At least 30 + 16.67(fd–3 kHz) or 55 + 10 log (P) or 65 dB, whichever is the lesser attenuation.

(3) On any frequency removed from the center of the authorized bandwidth by more than 4.6 kHz: At least 55 + 10 log (P) or 65 dB, whichever is the lesser attenuation.

(4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

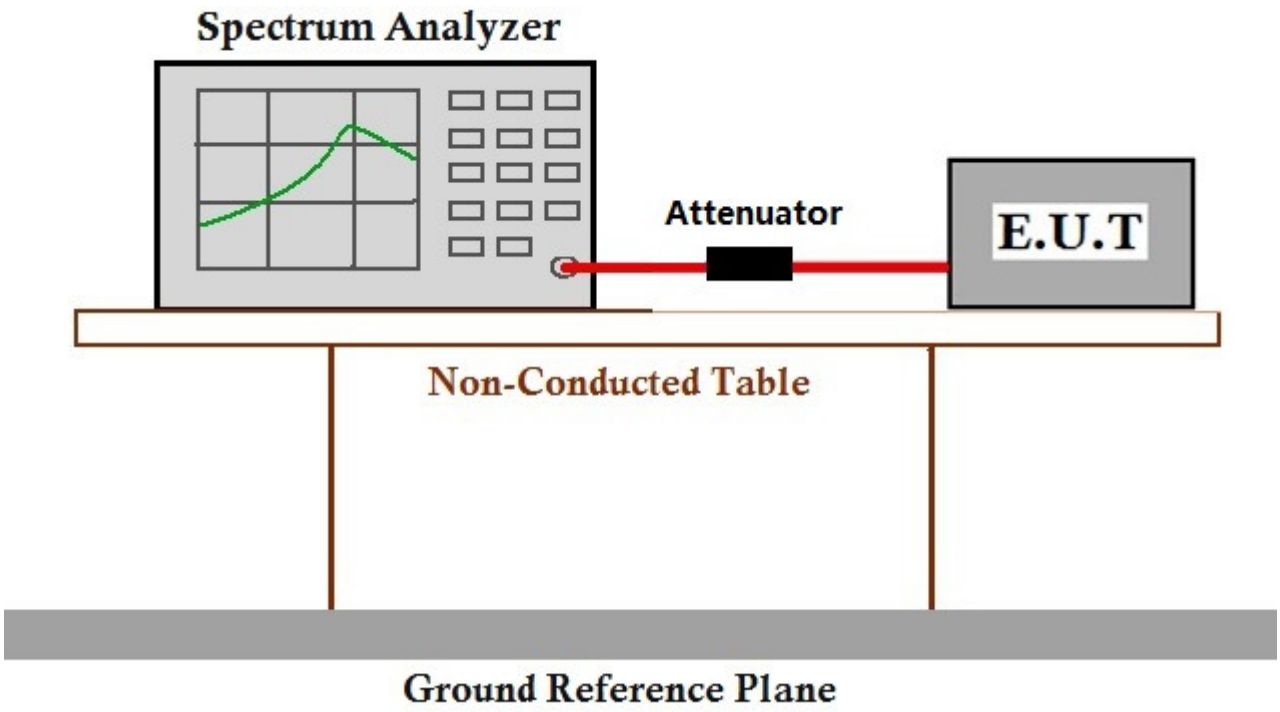
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 18.7 °C Humidity: 41.1 % RH Atmospheric Pressure: 1015 mbar

Test mode: p: Tx mode, Keep the EUT in transmitting mode.

7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix FCC data.

7.7 Radiated Spurious Emissions

Test Requirement 47 CFR FCC Part2.1051 & FCC Part90.210;

Test Method: ANSI/TIA-603-D:2010; ANSI C63.4.2014; TIA-102 CCAA-A; TIA-102 CCAB-D; TIA-102 CCAA-D; ANSI C63.26-2015

Measurement Distance: 3m

Limit:

For FCC Part 90.210:

Frequency band (MHz)	Mask for equipment with audio low pass filter	Mask for equipment without audio low pass filter
Below 25[1]	A or B	A or C
25-50	B	C
72-76	B	C
150-174[2]	B, D, or E	C, D or E
150 paging only	B	C
220-222	F	F
421-512[2 5]	B, D, or E	C, D, or E
450 paging only	B	G
806-809/851-854[6]	B	H
809-824/854-869[3 5]	B	G
896-901/935-940	I	J
902-928	K	K
929-930	B	G
4940-4990 MHz	L or M	L or M
5850-5925[4]		
All other bands	B	C

(b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.

(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

(c) Emission Mask C. For transmitters that are not equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier output power (P) as follows:

(1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 5 kHz, but not more than 10 kHz: At least 83 log (fd/5) dB;

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 10 kHz, but not more than 250 percent of the authorized bandwidth: At least 29 log (fd2/11) dB or 50 dB, whichever is the lesser attenuation;

(3) On any frequency removed from the center of the authorized bandwidth by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

(4) In the 1427-1432 MHz band, licensees are encouraged to take all reasonable steps to ensure that unwanted emissions power does not exceed the following levels in the 1400-1427 MHz band:

(i) For stations of point-to-point systems in the fixed service: –45 dBW/27 MHz.

(ii) For stations in the mobile service: –60 dBW/27 MHz.

(d) Emission Mask D—12.5 kHz channel bandwidth equipment. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(1) On any frequency from the center of the authorized bandwidth f0 to 5.625 kHz removed from f0: Zero dB.

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least 7.27(fd–2.88 kHz) dB.

(3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 12.5 kHz: At least 50 + 10 log (P) dB or 70 dB, whichever is the lesser attenuation.

(4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

(e) Emission Mask E—6.25 kHz or less channel bandwidth equipment. For transmitters designed to operate with a 6.25 kHz or less bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(1) On any frequency from the center of the authorized bandwidth f0 to 3.0 kHz removed from f0: Zero dB.

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 3.0 kHz but no more than 4.6 kHz: At least 30 + 16.67(fd–3 kHz) or 55 + 10 log (P) or 65 dB, whichever is the lesser attenuation.

(3) On any frequency removed from the center of the authorized bandwidth by more than 4.6 kHz: At least 55 + 10 log (P) or 65 dB, whichever is the lesser attenuation.

(4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

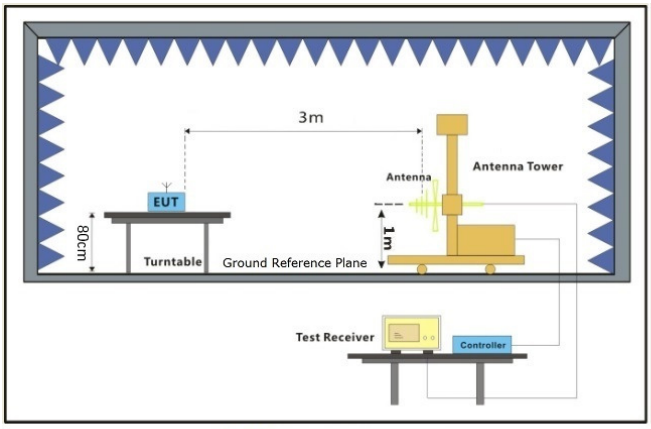
7.7.1 E.U.T. Operation

Operating Environment:

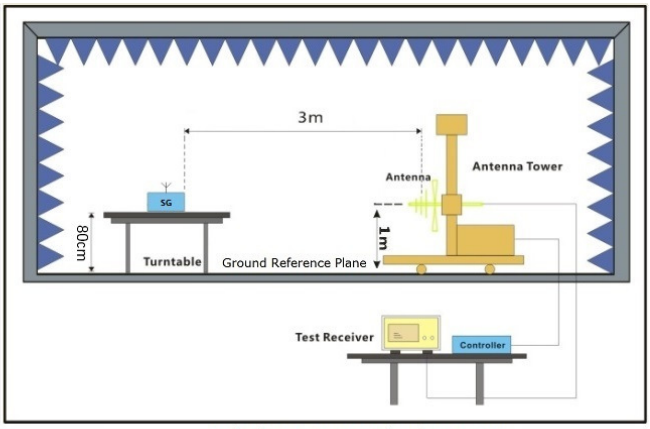
Temperature: 23.1 °C Humidity: 48 % RH Atmospheric Pressure: 1020 mbar

Test mode: p: Tx mode, Keep the EUT in transmitting mode.

7.7.2 Test Setup Diagram



EUT



Substiute Antenna+Signal Generator

7.7.3 Measurement Procedure and Data

Test Procedure:

(1)On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
(2)The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
(3)The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
(4)The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
(5)The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
(6)The transmitter shall than be rotated through 360°in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
(7)The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
(8)The maximum signal level detected by the measuring receiver shall be noted.
(9)The measurement shall be repeated with the test antenna set to horizontal polarization.
(10) Replace the antenna with a proper Antenna (substitution antenna).
(11)The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
(12)The substitution antenna shall be connected to a calibrated signal generator.
(13)If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
(14)The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
(15)The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
(16)The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
(17)The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

The detailed test data see: Appendix FCC data.

8 EUT Constructional Details

8.1 Test Setup Photo of Radiated Emission

8.2 EUT Constructional Details (EUT Photos)

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1802001299CR.

- End of the Report -

9 Appendix FCC data

1.RF Output Power

Modulation Type	Channel Separation	Frequency (MHz)	Power Level	RF Output Power(dBm)	RF Output Power(W)	Remark
Analog FM	12.5KHz/ 25KHz	136.05	Max	36.59	4.56	/
			Low	30.79	1.20	
		155.05	Max	36.45	4.42	/
			Low	30.09	1.02	
		173.95	Max	36.54	4.51	/
			Low	30.79	1.20	
Digital 4FSK	12.5KHz	136.05	Max	36.44	4.41	/
			Low	30.13	1.03	
		155.05	Max	36.31	4.28	/
			Low	29.78	0.95	
		173.95	Max	36.45	4.42	/
			Low	30.76	1.19	

Note: The max rated power is 5W(37dBm), the low rated power is 1W(30dBm).

The limit is dependent upon the station's antenna HAAT and required service area.

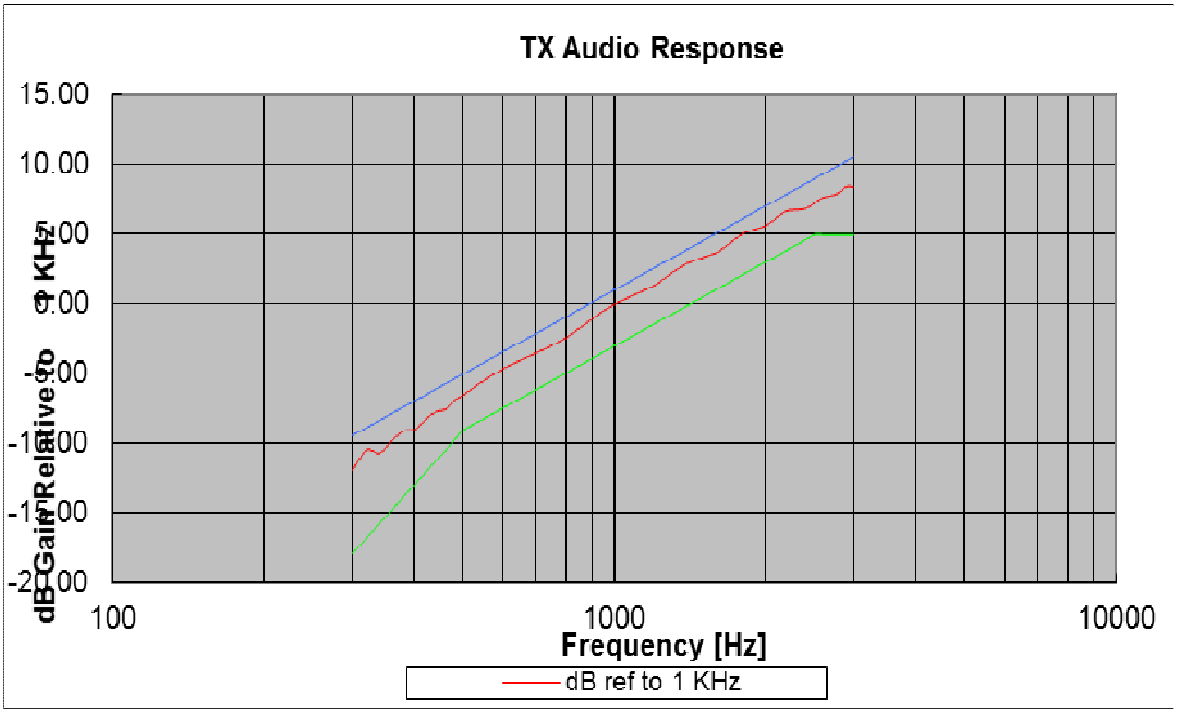
2.Frequency Stability

12.5KHz/25KHz, Analog modulation, Assigned Frequency: 136.05MHz					
Voltage(V)	Temperature (℃)	Measured Frequency(MHz)	Frequency Deviation(ppm)	FCC Limit (ppm)	Result
7.6	-30	136.050030	0.22	±2.5	Pass
	-20	136.050025	0.18		
	-10	136.050020	0.15		
	0	136.050010	0.08		
	10	136.050008	0.06		
	20	136.050006	0.04		
	30	136.050006	0.04		
	40	136.050013	0.10		
	50	136.050013	0.10		
6.46	25	136.050005	0.04		
8.74	25	136.050005	0.04		

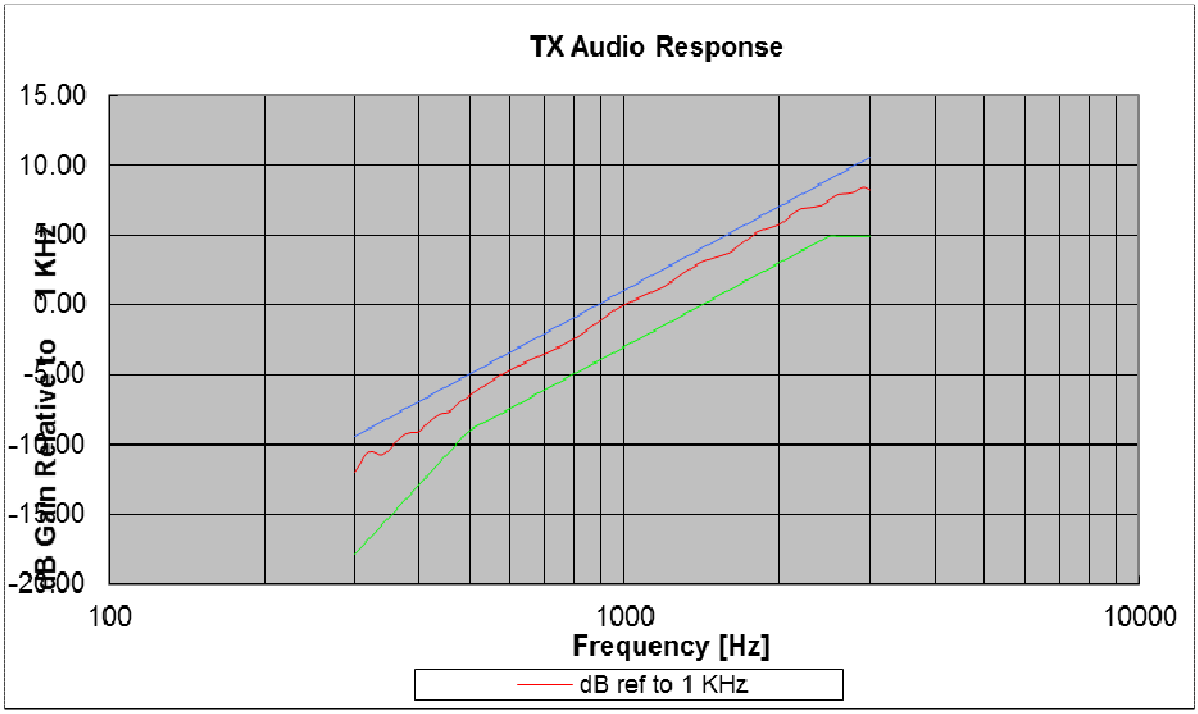
12.5KHz, Digital modulation, Assigned Frequency: 136.05MHz					
Voltage(V)	Temperature (℃)	Measured Frequency(MHz)	Frequency Deviation(ppm)	FCC Limit (ppm)	Result
7.6	-30	136.050030	0.22	±2.5	Pass
	-20	136.050025	0.18		
	-10	136.050020	0.15		
	0	136.050010	0.08		
	10	136.050008	0.06		
	20	136.050006	0.04		
	30	136.050006	0.04		
	40	136.050013	0.10		
	50	136.050013	0.10		
6.46	25	136.050005	0.04		
8.74	25	136.050005	0.04		

3.Audio Frequency Response

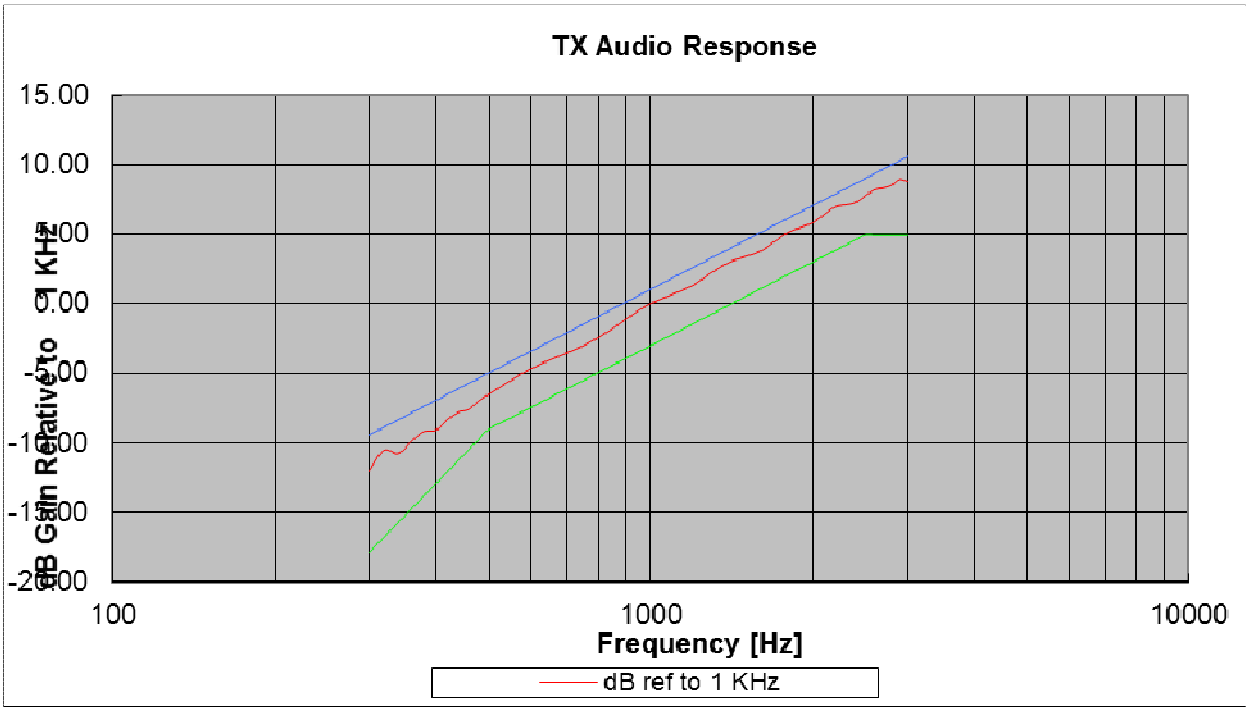
12.5KHz, Analog modulation, Assigned Frequency: 136.05MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-11.99
400	-9.06
500	-6.53
600	-4.66
700	-3.51
800	-2.43
900	-1.11
1000	-0.01
1200	1.35
1400	2.95
1600	3.73
1800	5.06
2000	5.66
2100	6.21
2200	6.69
2300	6.78
2400	6.86
2500	7.27
2600	7.67
2700	7.80
2800	8.01
2900	8.47
3000	8.40



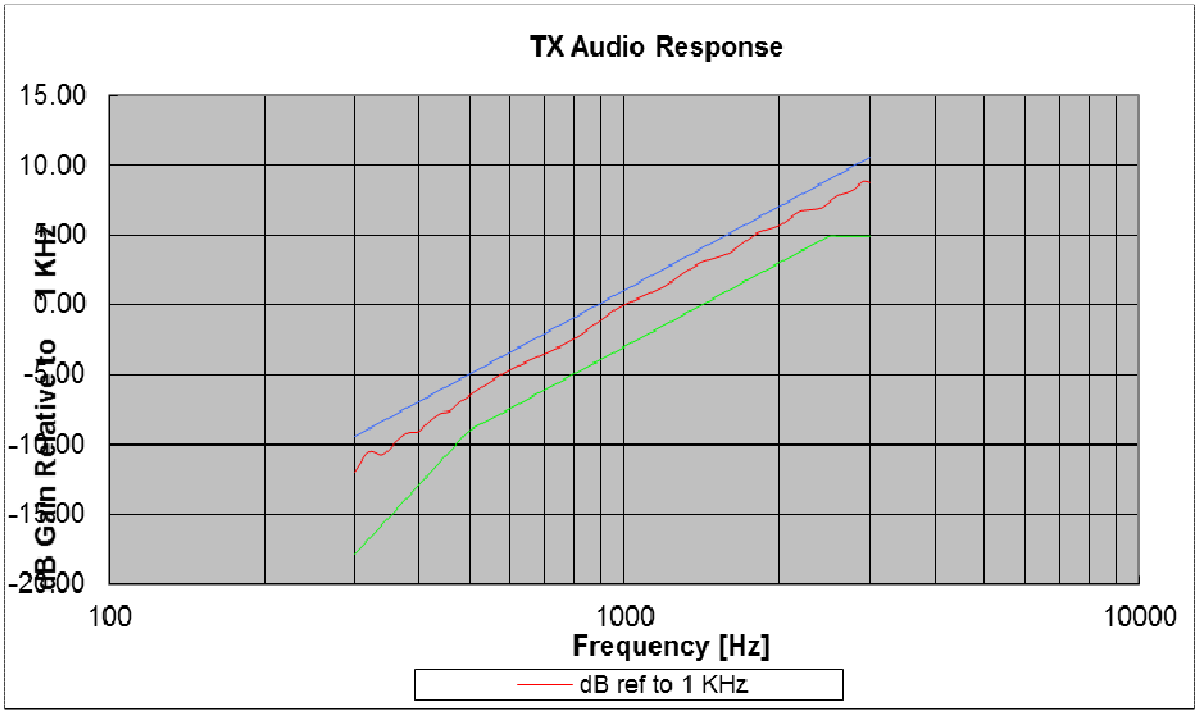
12.5KHz, Analog modulation, Assigned Frequency: 155.05MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-12.0
400	-9.06
500	-6.53
600	-4.67
700	-3.52
800	-2.43
900	-1.09
1000	0.0
1200	1.34
1400	2.97
1600	3.75
1800	5.12
2000	5.75
2100	6.35
2200	6.84
2300	6.96
2400	7.09
2500	7.49
2600	7.87
2700	7.95
2800	8.07
2900	8.44
3000	8.23



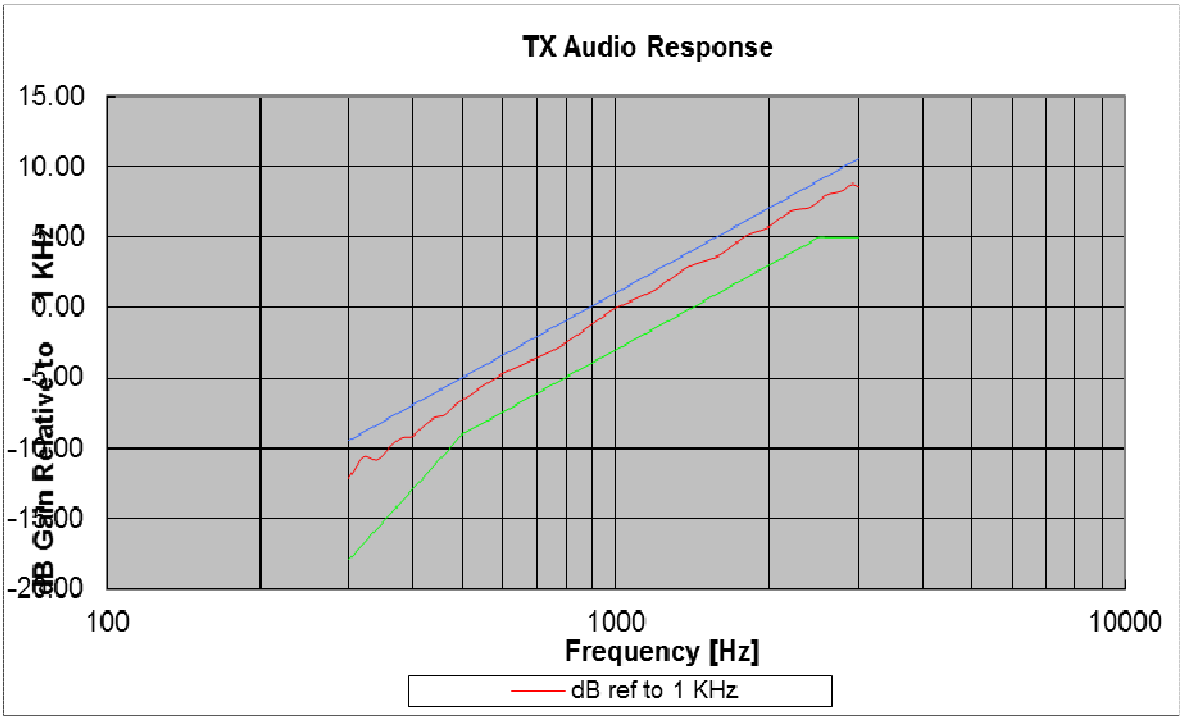
12.5KHz, Analog modulation, Assigned Frequency:173.95MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-11.99
400	-9.06
500	-6.51
600	-4.66
700	-3.52
800	-2.42
900	-1.10
1000	0.01
1200	1.34
1400	2.99
1600	3.78
1800	5.13
2000	5.81
2100	6.41
2200	6.95
2300	7.10
2400	7.26
2500	7.73
2600	8.18
2700	8.32
2800	8.50
2900	8.93
3000	8.77



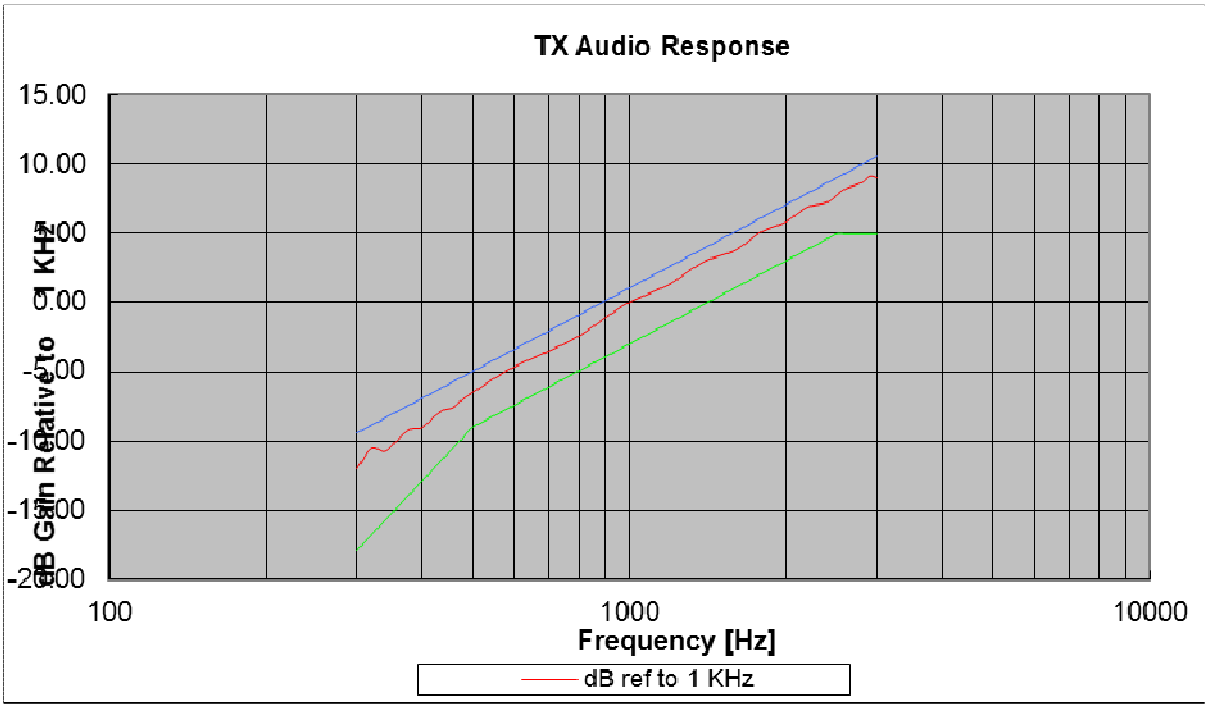
25KHz, Analog modulation, Assigned Frequency: 136.05MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-12.03
400	-9.07
500	-6.53
600	-4.66
700	-3.52
800	-2.42
900	-1.08
1000	0.01
1200	1.36
1400	2.99
1600	3.75
1800	5.09
2000	5.69
2100	6.25
2200	6.72
2300	6.83
2400	6.94
2500	7.39
2600	7.85
2700	8.05
2800	8.32
2900	8.84
3000	8.75



25KHz, Analog modulation, Assigned Frequency:155.05MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-12.07
400	-9.10
500	-6.56
600	-4.69
700	-3.55
800	-2.45
900	-1.14
1000	0
1200	1.33
1400	2.97
1600	3.75
1800	5.10
2000	5.76
2100	6.34
2200	6.83
2300	6.98
2400	7.11
2500	7.55
2600	8.01
2700	8.16
2800	8.34
2900	8.77
3000	8.60

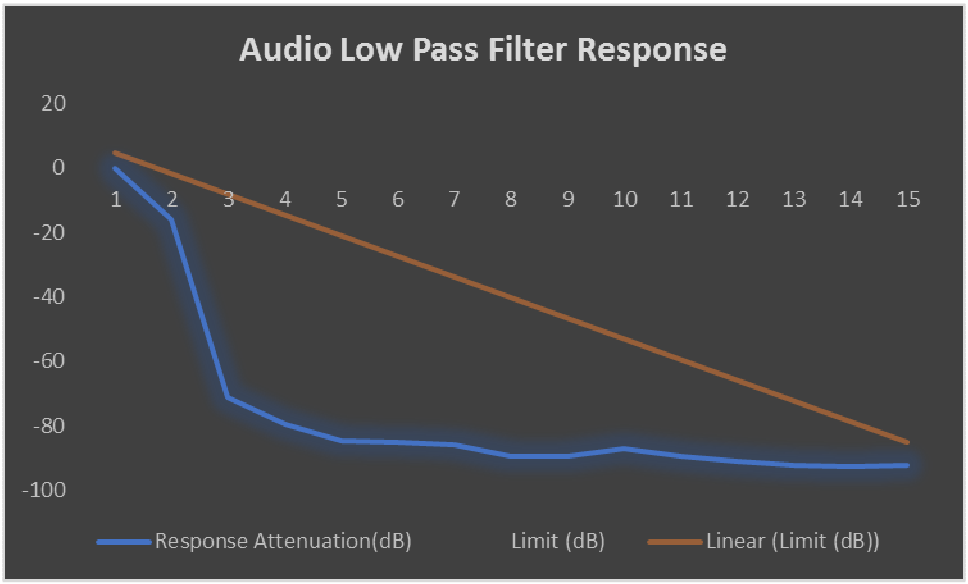


25KHz, Analog modulation, Assigned Frequency: 173.95MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-12.04
400	-9.08
500	-6.53
600	-4.67
700	-3.53
800	-2.44
900	-1.10
1000	0.0
1200	1.35
1400	3.00
1600	3.78
1800	5.15
2000	5.82
2100	6.40
2200	6.91
2300	7.08
2400	7.24
2500	7.74
2600	8.24
2700	8.44
2800	8.68
2900	9.15
3000	9.01

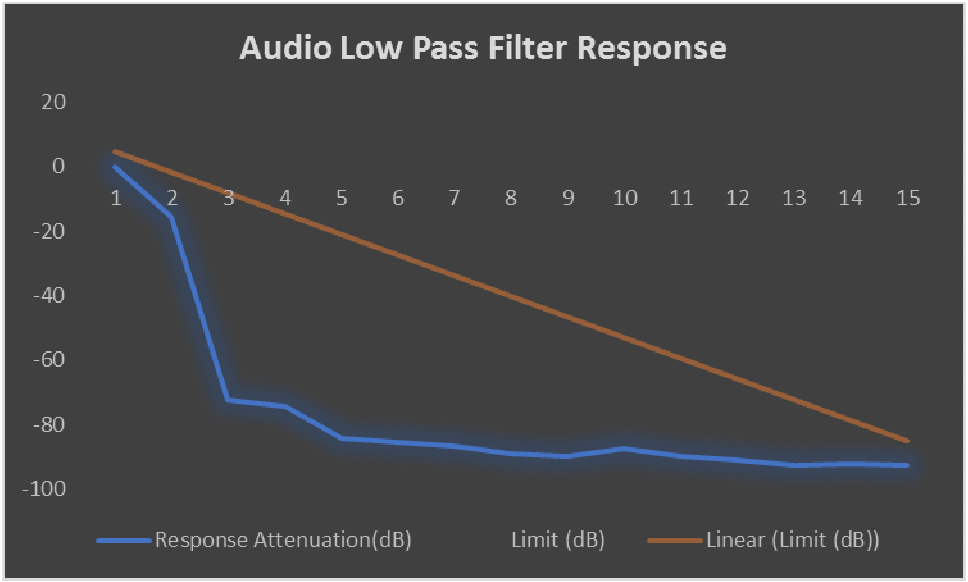


4.Audio Low Pass Filter Response

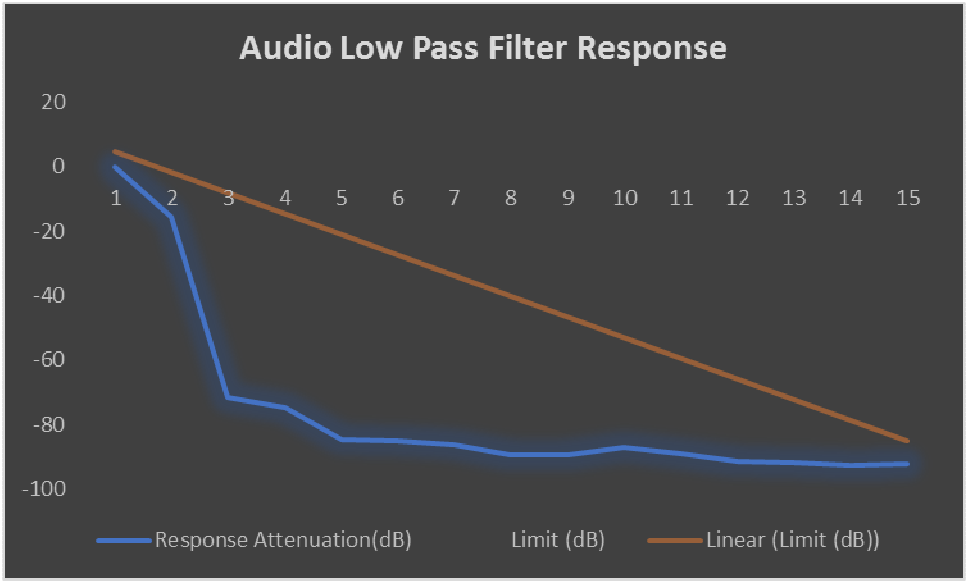
25KHz, Analog modulation, Assigned Frequency: 136.05MHz		
Audio Frequency(KHz)	Response Attenuation(dB)	Limit (dB)
1	0	0
2	-15.88	0
3	-71.11	0
4	-74.68	-12.5
5	-84.85	-22.2
6	-85.22	-30.1
7	-86.02	-36.8
8	-89.69	-42.6
9	-89.44	-47.7
10	-87.21	-52.3
12	-89.32	-60.2
14	-91.27	-66.9
16	-92.33	-72.7
18	-92.82	-77.8
20	-92.14	-82.5



25KHz, Analog modulation, Assigned Frequency: 155.05MHz		
Audio Frequency(KHz)	Response Attenuation(dB)	Limit (dB)
1	0	0
2	-15.47	0
3	-72.34	0
4	-74.25	-12.5
5	-84.51	-22.2
6	-85.67	-30.1
7	-86.71	-36.8
8	-89.27	-42.6
9	-89.91	-47.7
10	-87.63	-52.3
12	-89.77	-60.2
14	-91.12	-66.9
16	-92.54	-72.7
18	-92.36	-77.8
20	-92.85	-82.5

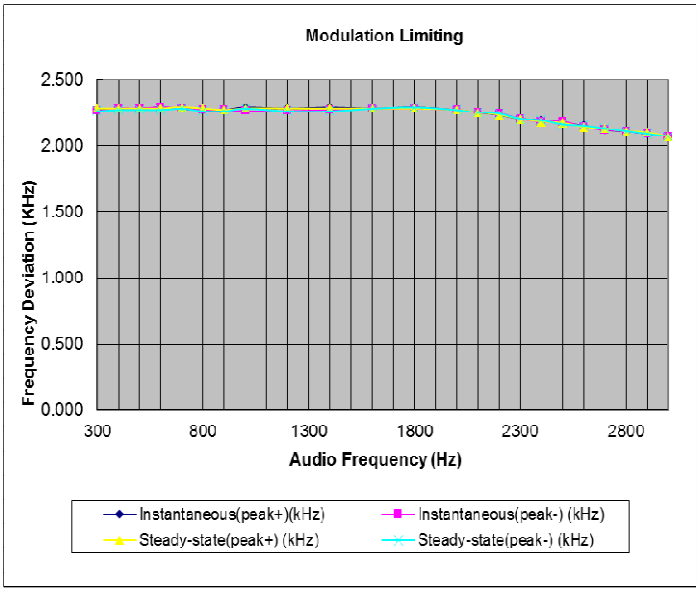


25KHz, Analog modulation, Assigned Frequency: 173.95MHz		
Audio Frequency(KHz)	Response Attenuation(dB)	Limit (dB)
1	0	0
2	-15.52	0
3	-72.72	0
4	-74.94	-12.5
5	-84.78	-22.2
6	-85.24	-30.1
7	-86.16	-36.8
8	-89.66	-42.6
9	-89.32	-47.7
10	-87.26	-52.3
12	-89.11	-60.2
14	-91.42	-66.9
16	-92.07	-72.7
18	-92.67	-77.8
20	-92.39	-82.5

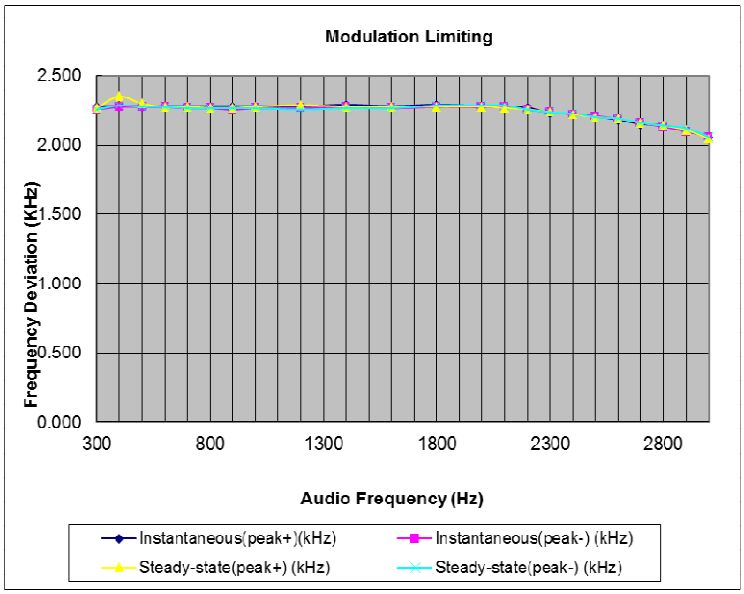


5.Modulation Limiting

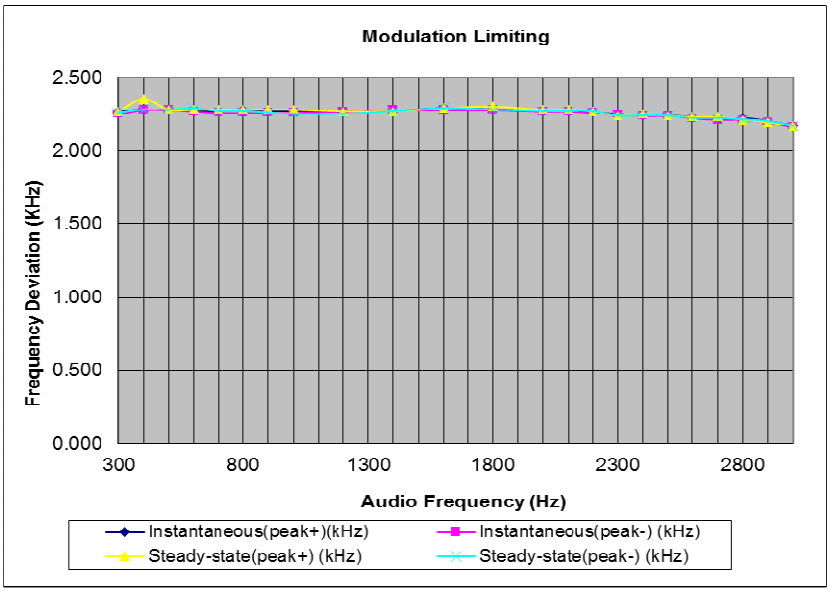
12.5KHz, Analog modulation, Assigned Frequency:136.05MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	2.270	2.260	2.280	2.260	2.5
400	2.280	2.280	2.280	2.270	2.5
500	2.280	2.280	2.280	2.270	2.5
600	2.290	2.290	2.280	2.270	2.5
700	2.280	2.280	2.290	2.280	2.5
800	2.270	2.270	2.280	2.260	2.5
900	2.270	2.270	2.270	2.260	2.5
1000	2.290	2.260	2.280	2.280	2.5
1200	2.280	2.260	2.280	2.260	2.5
1400	2.290	2.270	2.280	2.260	2.5
1600	2.280	2.280	2.280	2.280	2.5
1800	2.290	2.280	2.280	2.290	2.5
2000	2.270	2.270	2.270	2.270	2.5
2100	2.250	2.250	2.250	2.250	2.5
2200	2.230	2.240	2.230	2.240	2.5
2300	2.200	2.200	2.200	2.200	2.5
2400	2.190	2.180	2.180	2.190	2.5
2500	2.170	2.180	2.170	2.160	2.5
2600	2.150	2.140	2.140	2.150	2.5
2700	2.120	2.120	2.130	2.130	2.5
2800	2.110	2.110	2.110	2.110	2.5
2900	2.090	2.090	2.100	2.090	2.5
3000	2.070	2.070	2.070	2.070	2.5



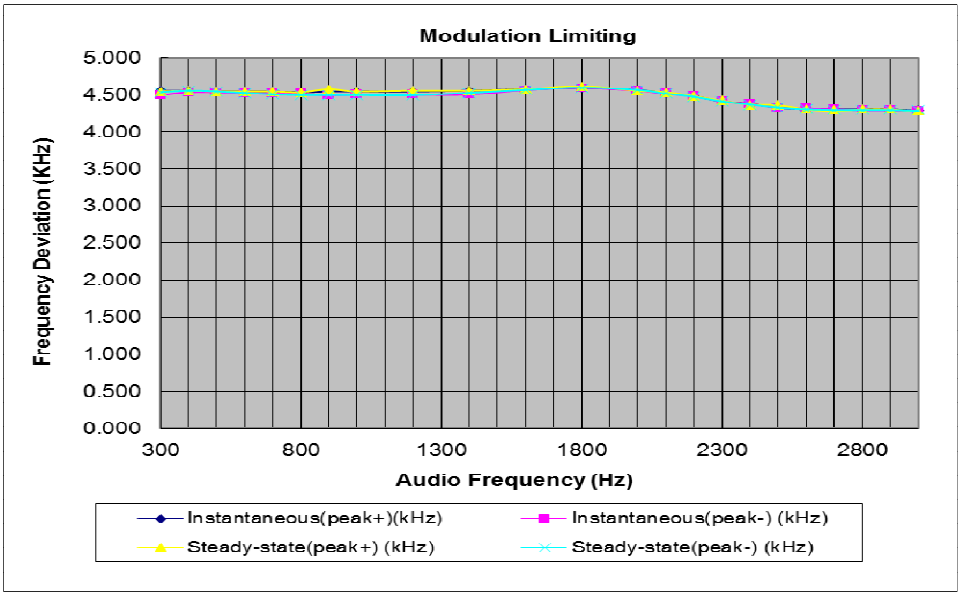
12.5KHz, Analog modulation, Assigned Frequency:155.05MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	2.280	2.260	2.270	2.260	2.5
400	2.280	2.280	2.350	2.290	2.5
500	2.280	2.280	2.300	2.280	2.5
600	2.280	2.280	2.280	2.280	2.5
700	2.280	2.270	2.280	2.270	2.5
800	2.280	2.270	2.270	2.270	2.5
900	2.280	2.260	2.270	2.270	2.5
1000	2.280	2.270	2.280	2.270	2.5
1200	2.280	2.270	2.290	2.260	2.5
1400	2.290	2.280	2.280	2.270	2.5
1600	2.280	2.270	2.280	2.270	2.5
1800	2.290	2.280	2.280	2.290	2.5
2000	2.280	2.280	2.280	2.290	2.5
2100	2.270	2.280	2.270	2.290	2.5
2200	2.270	2.260	2.260	2.260	2.5
2300	2.230	2.240	2.240	2.240	2.5
2400	2.220	2.220	2.220	2.230	2.5
2500	2.200	2.210	2.200	2.200	2.5
2600	2.180	2.190	2.190	2.190	2.5
2700	2.150	2.160	2.160	2.160	2.5
2800	2.140	2.130	2.140	2.140	2.5
2900	2.100	2.100	2.110	2.120	2.5
3000	2.060	2.060	2.050	2.060	2.5



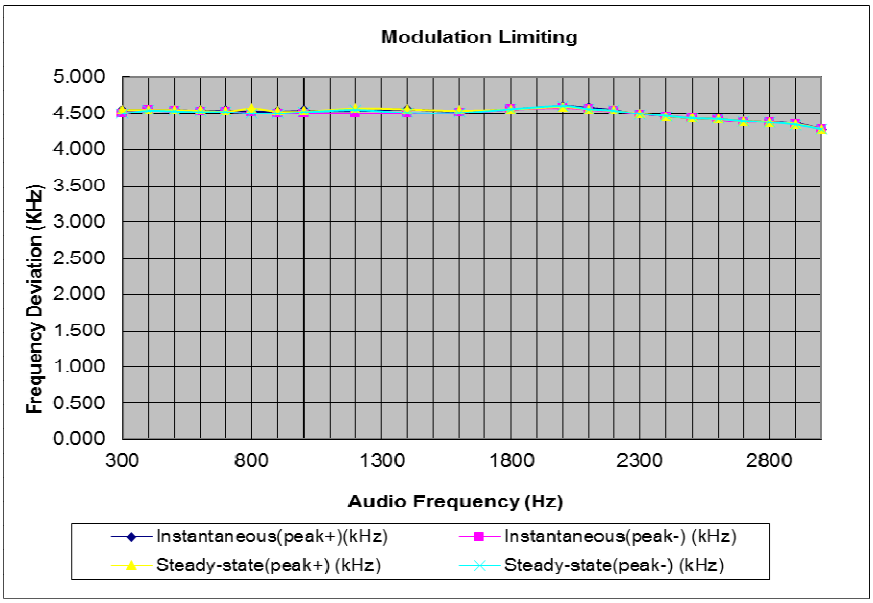
12.5KHz, Analog modulation, Assigned Frequency:173.95MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	2.270	2.250	2.270	2.260	2.5
400	2.280	2.280	2.350	2.280	2.5
500	2.280	2.280	2.280	2.280	2.5
600	2.270	2.270	2.280	2.290	2.5
700	2.270	2.260	2.280	2.270	2.5
800	2.280	2.260	2.280	2.270	2.5
900	2.270	2.260	2.280	2.260	2.5
1000	2.270	2.260	2.280	2.250	2.5
1200	2.270	2.270	2.270	2.250	2.5
1400	2.270	2.280	2.270	2.270	2.5
1600	2.290	2.280	2.290	2.290	2.5
1800	2.280	2.280	2.300	2.280	2.5
2000	2.270	2.270	2.280	2.270	2.5
2100	2.270	2.270	2.280	2.270	2.5
2200	2.260	2.260	2.270	2.270	2.5
2300	2.250	2.250	2.240	2.240	2.5
2400	2.240	2.240	2.250	2.240	2.5
2500	2.240	2.240	2.240	2.240	2.5
2600	2.230	2.220	2.230	2.220	2.5
2700	2.220	2.210	2.230	2.220	2.5
2800	2.220	2.210	2.210	2.210	2.5
2900	2.200	2.190	2.190	2.200	2.5
3000	2.170	2.160	2.170	2.170	2.5



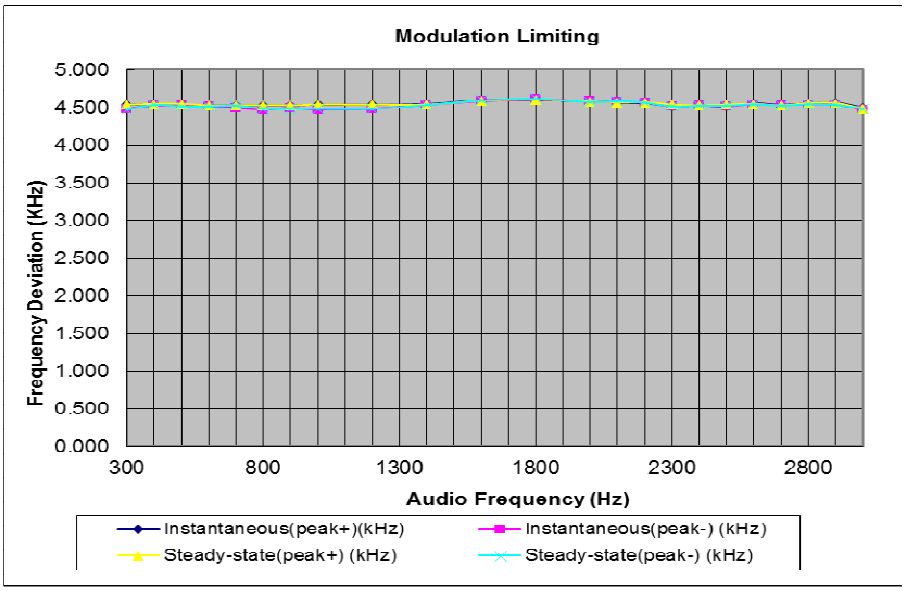
25KHz, Analog modulation, Assigned Frequency: 136.05MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	4.550	4.490	4.540	4.530	5.0
400	4.550	4.530	4.550	4.550	5.0
500	4.540	4.530	4.540	4.540	5.0
600	4.540	4.520	4.540	4.520	5.0
700	4.540	4.510	4.540	4.500	5.0
800	4.530	4.510	4.530	4.490	5.0
900	4.540	4.490	4.570	4.490	5.0
1000	4.540	4.500	4.540	4.490	5.0
1200	4.540	4.500	4.550	4.490	5.0
1400	4.550	4.500	4.550	4.520	5.0
1600	4.570	4.560	4.570	4.560	5.0
1800	4.590	4.590	4.610	4.590	5.0
2000	4.560	4.550	4.550	4.560	5.0
2100	4.520	4.510	4.530	4.510	5.0
2200	4.480	4.480	4.480	4.470	5.0
2300	4.410	4.410	4.420	4.410	5.0
2400	4.380	4.380	4.370	4.370	5.0
2500	4.330	4.330	4.360	4.330	5.0
2600	4.310	4.320	4.310	4.310	5.0
2700	4.310	4.310	4.290	4.300	5.0
2800	4.310	4.300	4.310	4.300	5.0
2900	4.310	4.300	4.310	4.300	5.0
3000	4.290	4.280	4.280	4.290	5.0



25KHz, Analog modulation, Assigned Frequency:155.05MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	4.550	4.500	4.550	4.500	5.0
400	4.550	4.550	4.550	4.540	5.0
500	4.550	4.530	4.550	4.530	5.0
600	4.540	4.520	4.540	4.520	5.0
700	4.540	4.520	4.530	4.520	5.0
800	4.530	4.510	4.570	4.500	5.0
900	4.530	4.500	4.530	4.500	5.0
1000	4.540	4.500	4.530	4.520	5.0
1200	4.540	4.500	4.570	4.550	5.0
1400	4.560	4.500	4.560	4.510	5.0
1600	4.530	4.510	4.540	4.510	5.0
1800	4.560	4.560	4.560	4.560	5.0
2000	4.600	4.580	4.590	4.600	5.0
2100	4.580	4.560	4.560	4.560	5.0
2200	4.550	4.530	4.540	4.540	5.0
2300	4.490	4.490	4.500	4.490	5.0
2400	4.460	4.460	4.460	4.460	5.0
2500	4.430	4.440	4.430	4.430	5.0
2600	4.420	4.410	4.420	4.420	5.0
2700	4.390	4.380	4.390	4.390	5.0
2800	4.380	4.380	4.380	4.370	5.0
2900	4.360	4.350	4.350	4.340	5.0
3000	4.280	4.280	4.280	4.280	5.0



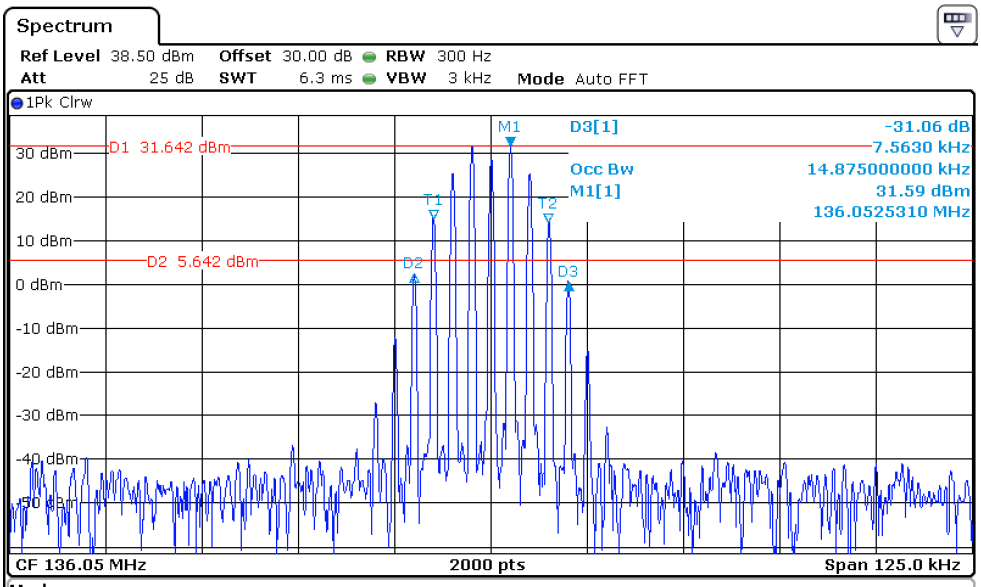
25KHz, Analog modulation, Assigned Frequency:173.95MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	4.540	4.490	4.540	4.480	5.0
400	4.550	4.530	4.550	4.540	5.0
500	4.540	4.530	4.550	4.520	5.0
600	4.530	4.520	4.530	4.520	5.0
700	4.530	4.500	4.530	4.530	5.0
800	4.530	4.480	4.530	4.490	5.0
900	4.530	4.500	4.530	4.490	5.0
1000	4.540	4.480	4.540	4.490	5.0
1200	4.540	4.490	4.540	4.490	5.0
1400	4.550	4.540	4.540	4.540	5.0
1600	4.600	4.590	4.590	4.600	5.0
1800	4.600	4.610	4.600	4.620	5.0
2000	4.590	4.590	4.580	4.580	5.0
2100	4.570	4.580	4.570	4.590	5.0
2200	4.560	4.570	4.570	4.570	5.0
2300	4.520	4.520	4.540	4.520	5.0
2400	4.530	4.530	4.530	4.530	5.0
2500	4.520	4.520	4.540	4.530	5.0
2600	4.560	4.550	4.550	4.550	5.0
2700	4.540	4.540	4.530	4.530	5.0
2800	4.560	4.550	4.560	4.550	5.0
2900	4.570	4.540	4.560	4.540	5.0
3000	4.500	4.480	4.490	4.490	5.0



6.Occupied Bandwidth

Modulation Type	Channel Separation	Frequency (MHz)	Power Level	99% Occupied Bandwidth (kHz)	26dB Emissions Bandwidth (kHz)	Remark
Analog FM	25KHz	136.05	Max	14.875	20.041	/
			Low	14.938	19.978	
		155.05	Max	14.938	19.978	/
			Low	14.938	20.041	
		173.95	Max	15.000	19.978	/
			Low	15.000	19.978	
	12.5KHz	136.05	Max	9.938	10.160	/
			Low	9.938	10.174	
		155.05	Max	9.969	10.160	/
			Low	9.969	10.130	
		173.95	Max	9.969	10.160	/
			Low	9.969	10.205	
Digital 4FSK	12.5KHz	136.05	Max	7.236	9.316	/
			Low	7.326	9.316	
		155.05	Max	7.236	9.135	/
			Low	7.326	9.588	
		173.95	Max	7.326	9.407	/
			Low	7.145	9.316	

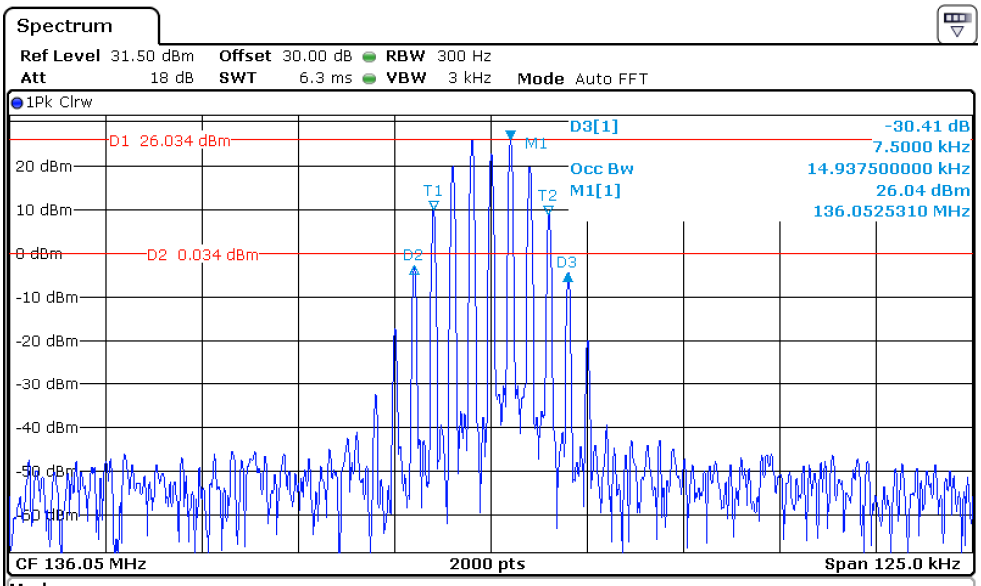
25KHz, Analog modulation, Assigned Frequency: 136.05MHz, High Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	136.052531 MHz	31.59 dBm		
T1		1	136.0425938 MHz	14.93 dBm	Occ Bw	14.875 kHz
T2		1	136.0574687 MHz	14.19 dBm		
D2	M1	1	-12.478 kHz	-29.08 dB		
D3	M1	1	7.563 kHz	-31.06 dB		

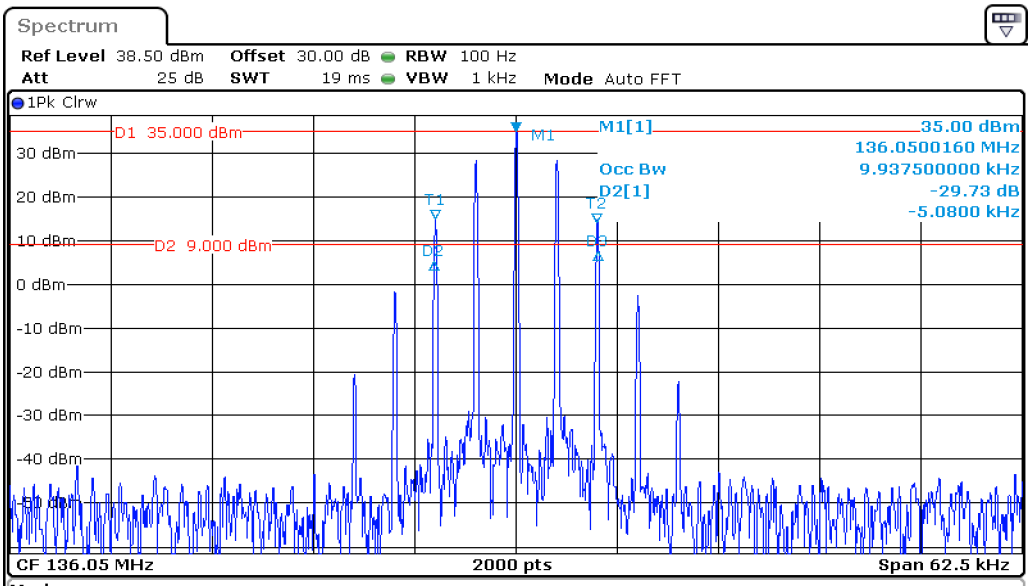
25KHz, Analog modulation, Assigned Frequency: 136.05MHz, Low Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	136.052531 MHz	26.04 dBm		
T1		1	136.0425312 MHz	9.79 dBm	Occ Bw	14.9375 kHz
T2		1	136.0574687 MHz	8.85 dBm		
D2	M1	1	-12.478 kHz	-28.83 dB		
D3	M1	1	7.5 kHz	-30.41 dB		

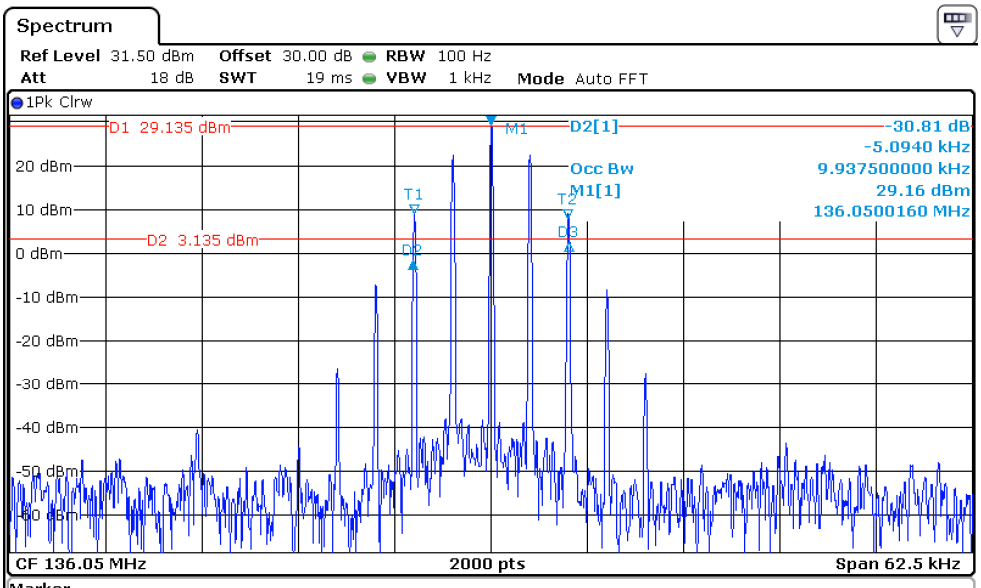
12.5KHz, Analog modulation, Assigned Frequency: 136.05MHz, High Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	136.050016 MHz	35.00 dBm		
T1		1	136.0450469 MHz	14.84 dBm	Occ Bw	9.9375 kHz
T2		1	136.0549844 MHz	14.02 dBm		
D2	M1	1	-5.08 kHz	-29.73 dB		
D3	M1	1	5.08 kHz	-27.59 dB		

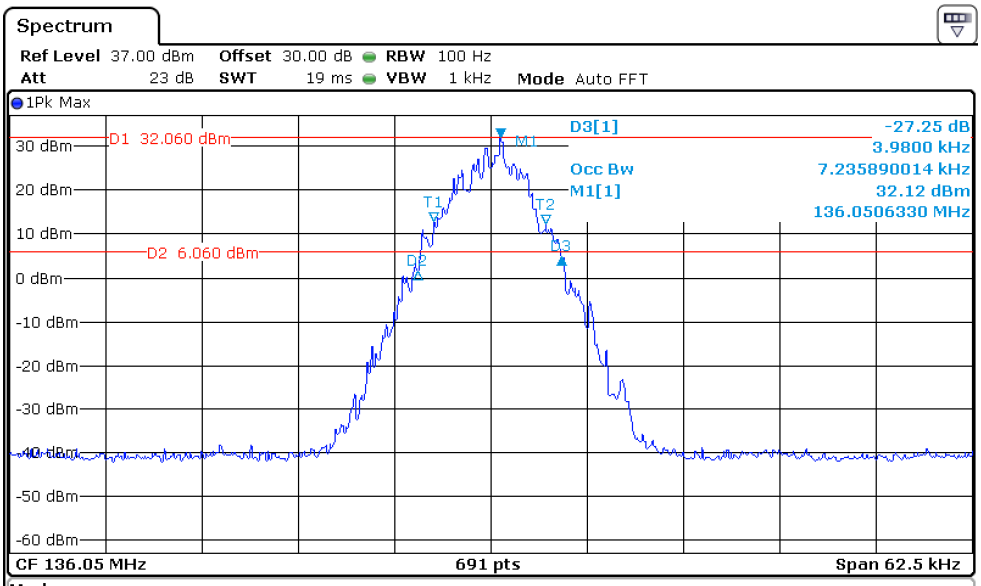
12.5KHz, Analog modulation, Assigned Frequency: 136.05MHz, Low Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	136.050016 MHz	29.16 dBm		
T1		1	136.0450469 MHz	9.13 dBm	Occ Bw	9.9375 kHz
T2		1	136.0549844 MHz	7.90 dBm		
D2	M1	1	-5.094 kHz	-30.81 dB		
D3	M1	1	5.08 kHz	-26.78 dB		

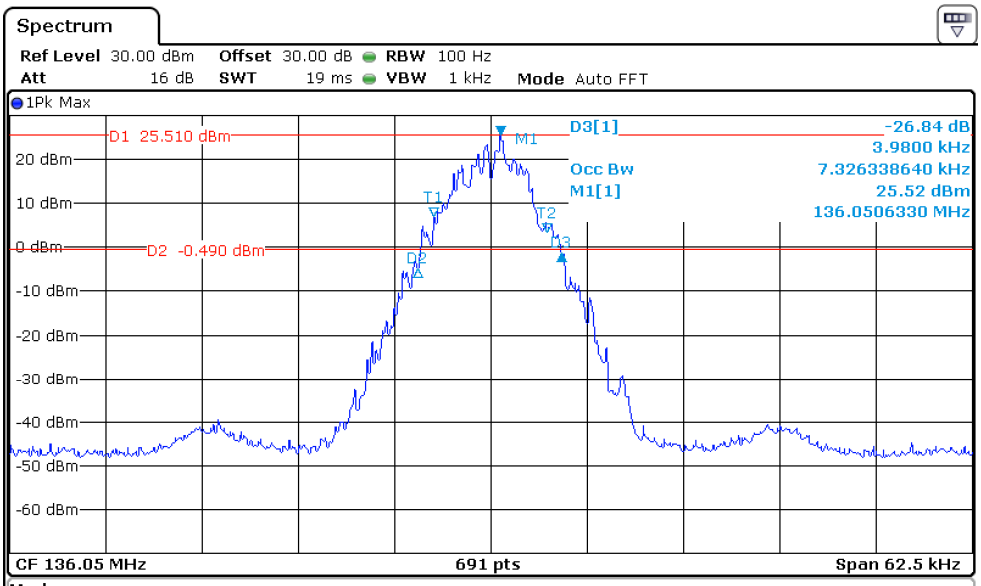
12.5KHz, Digital modulation, Assigned Frequency: 136.05MHz, High Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	136.050633 MHz	32.12 dBm		
T1		1	136.0462916 MHz	12.90 dBm	Occ Bw	7.235890014 kHz
T2		1	136.0535275 MHz	12.30 dBm		
D2	M1	1	-5.336 kHz	-30.56 dB		
D3	M1	1	3.98 kHz	-27.25 dB		

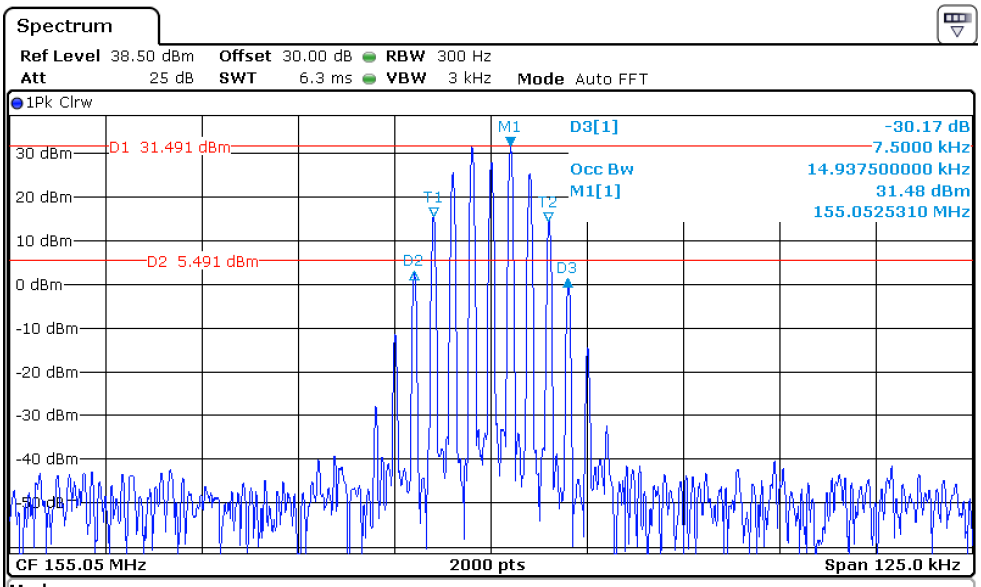
12.5KHz, Digital modulation, Assigned Frequency: 136.05MHz, Low Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	136.050633 MHz	25.52 dBm		
T1		1	136.0462916 MHz	6.96 dBm	Occ Bw	7.32633864 kHz
T2		1	136.0536179 MHz	3.48 dBm		
D2	M1	1	-5.336 kHz	-30.37 dB		
D3	M1	1	3.98 kHz	-26.84 dB		

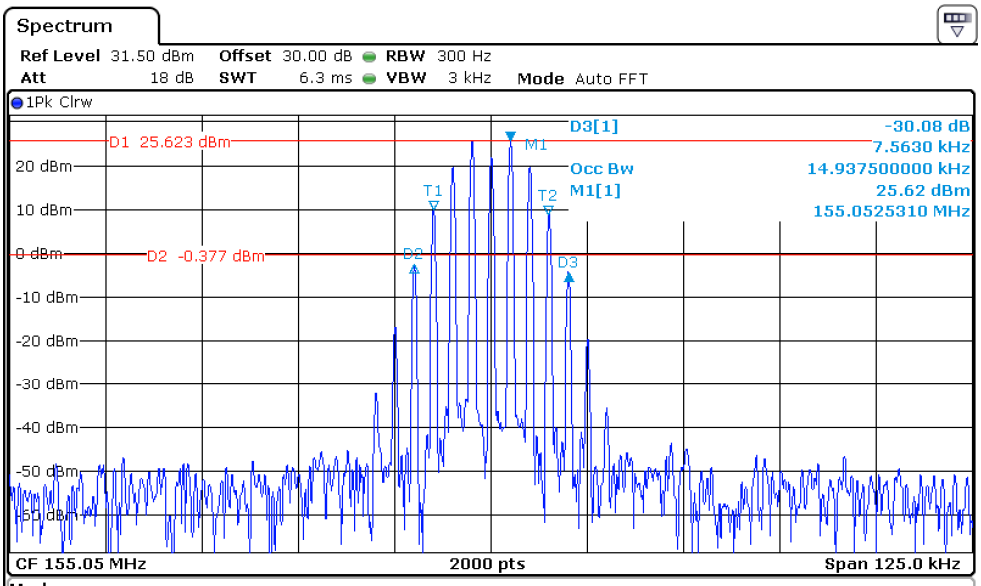
25KHz, Analog modulation, Assigned Frequency: 155.05MHz, High Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	155.052531 MHz	31.48 dBm		
T1		1	155.0425312 MHz	15.49 dBm	Occ Bw	14.9375 kHz
T2		1	155.0574687 MHz	14.36 dBm		
D2	M1	1	-12.478 kHz	-28.48 dB		
D3	M1	1	7.5 kHz	-30.17 dB		

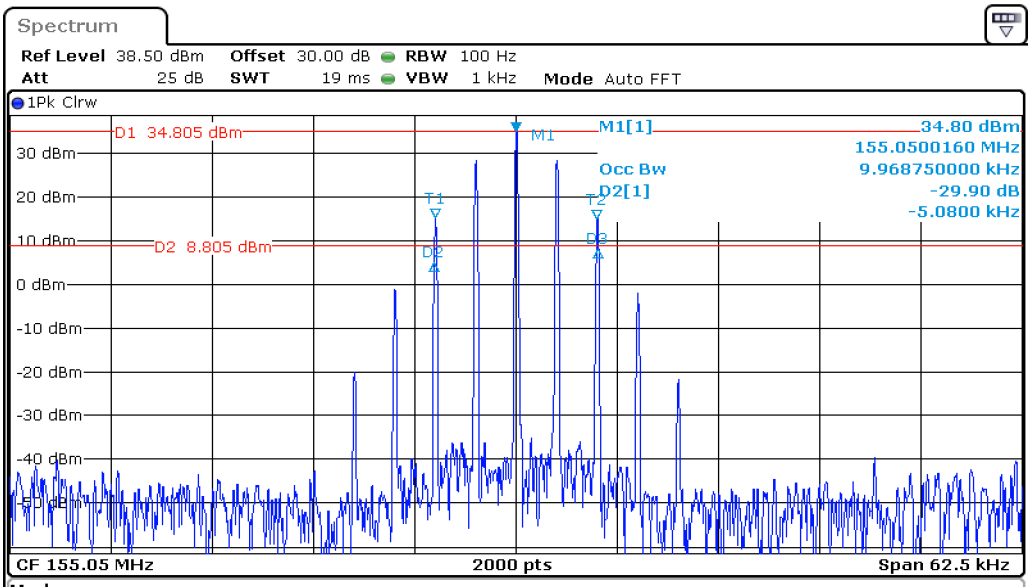
25KHz, Analog modulation, Assigned Frequency: 155.05MHz, Low Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	155.052531 MHz	25.62 dBm		
T1		1	155.0425312 MHz	9.86 dBm	Occ Bw	14.9375 kHz
T2		1	155.0574687 MHz	8.74 dBm		
D2	M1	1	-12.478 kHz	-28.18 dB		
D3	M1	1	7.563 kHz	-30.08 dB		

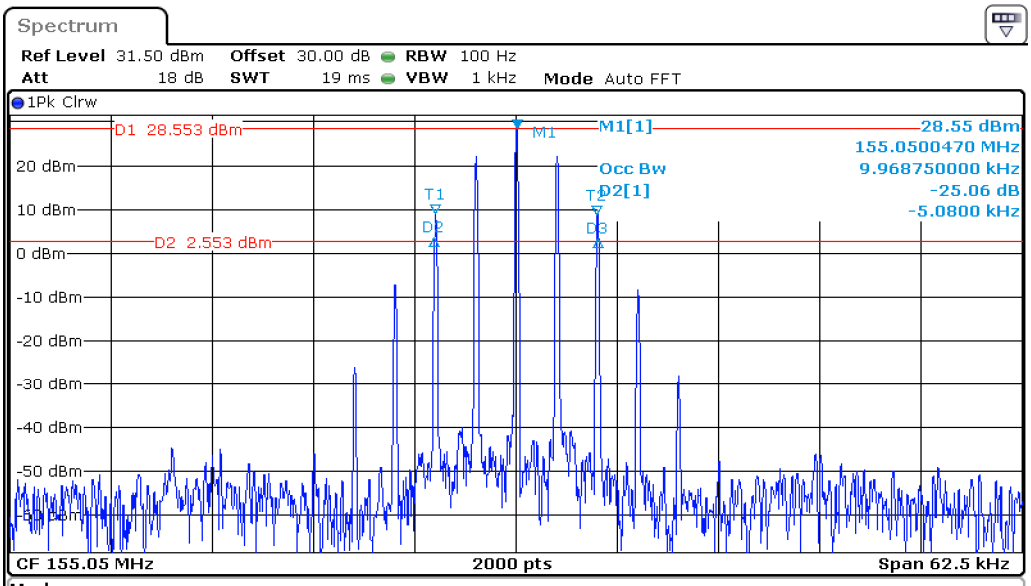
12.5KHz, Analog modulation, Assigned Frequency: 155.05MHz, High Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	155.050016 MHz	34.80 dBm		
T1		1	155.0450469 MHz	15.11 dBm	Occ Bw	9.96875 kHz
T2		1	155.0550156 MHz	15.03 dBm		
D2	M1	1	-5.08 kHz	-29.90 dB		
D3	M1	1	5.08 kHz	-26.74 dB		

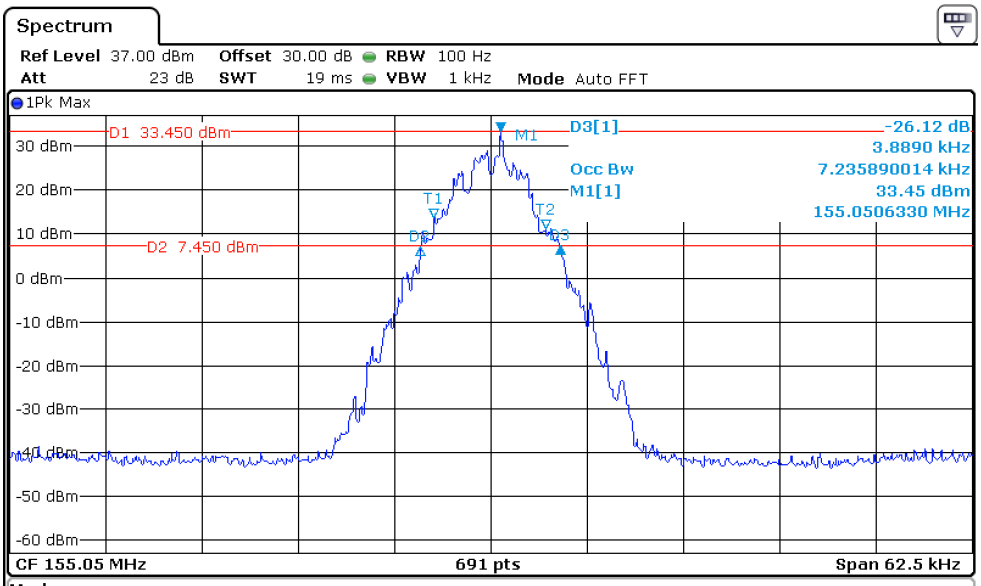
12.5KHz, Analog modulation, Assigned Frequency: 155.05MHz, Low Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	155.050047 MHz	28.55 dBm		
T1		1	155.0450469 MHz	9.05 dBm	Occ Bw	9.96875 kHz
T2		1	155.0550156 MHz	8.79 dBm		
D2	M1	1	-5.08 kHz	-25.06 dB		
D3	M1	1	5.05 kHz	-25.30 dB		

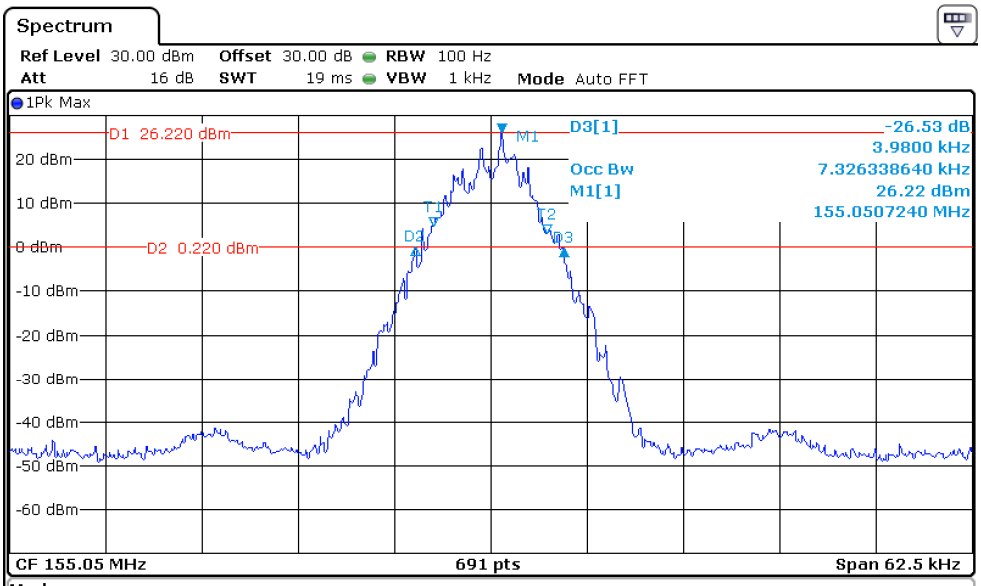
12.5KHz, Digital modulation, Assigned Frequency: 155.05MHz, High Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	155.050633 MHz	33.45 dBm		
T1		1	155.0462916 MHz	13.72 dBm	Occ Bw	7.235890014 kHz
T2		1	155.0535275 MHz	11.31 dBm		
D2	M1	1	-5.246 kHz	-26.30 dB		
D3	M1	1	3.889 kHz	-26.12 dB		

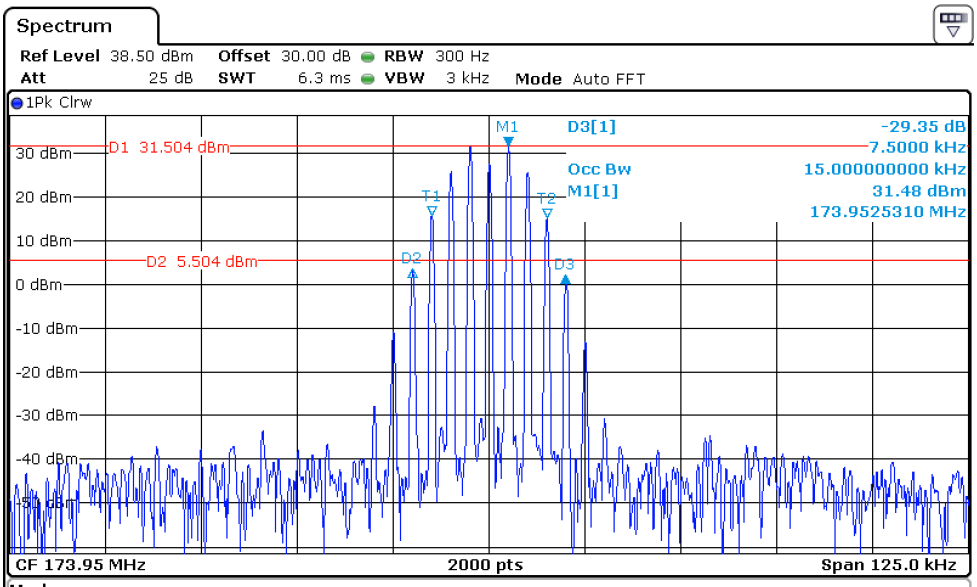
12.5KHz, Digital modulation, Assigned Frequency: 155.05MHz, Low Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	155.050724 MHz	26.22 dBm		
T1		1	155.0462916 MHz	4.84 dBm	Occ Bw	7.32633864 kHz
T2		1	155.0536179 MHz	3.25 dBm		
D2	M1	1	-5.608 kHz	-26.21 dB		
D3	M1	1	3.98 kHz	-26.53 dB		

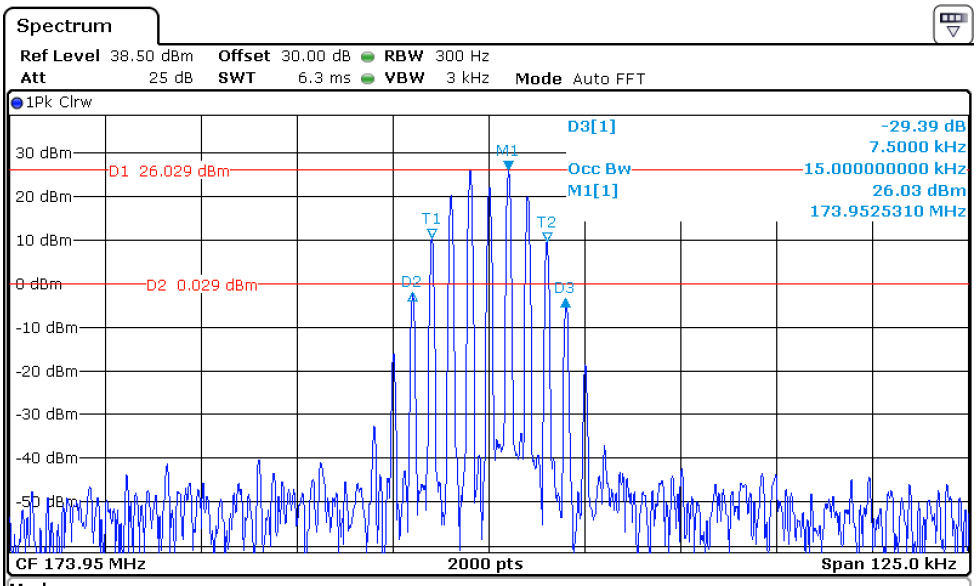
25KHz, Analog modulation, Assigned Frequency:173.95MHz, High Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	173.952531 MHz	31.48 dBm		
T1		1	173.9425313 MHz	15.87 dBm	Occ Bw	15.0 kHz
T2		1	173.9575313 MHz	15.25 dBm		
D2	M1	1	-12.478 kHz	-27.97 dB		
D3	M1	1	7.5 kHz	-29.35 dB		

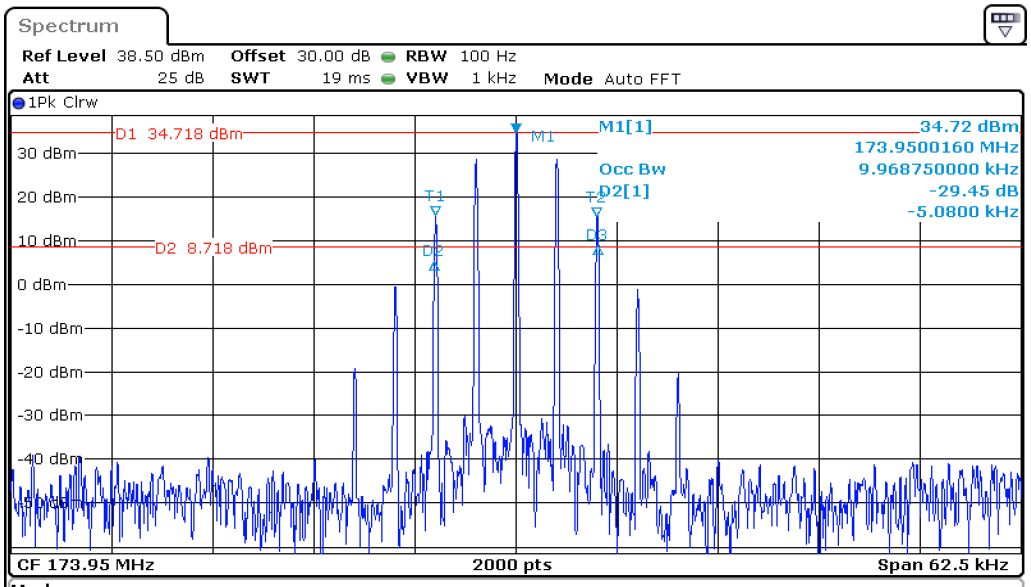
25KHz, Analog modulation, Assigned Frequency: 173.95MHz, Low Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	173.952531 MHz	26.03 dBm		
T1		1	173.9425313 MHz	10.39 dBm	Occ Bw	15.0 kHz
T2		1	173.9575313 MHz	9.79 dBm		
D2	M1	1	-12.478 kHz	-28.00 dB		
D3	M1	1	7.5 kHz	-29.39 dB		

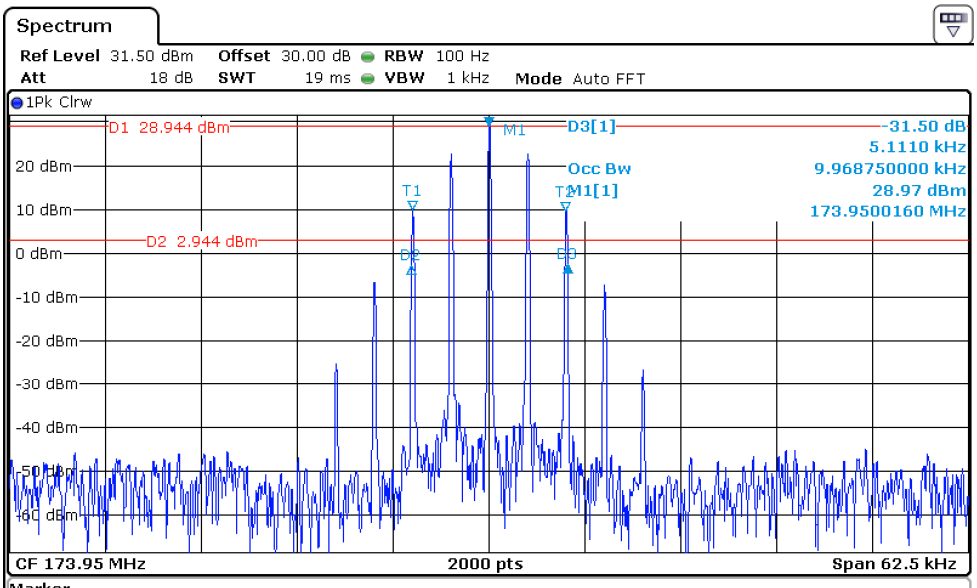
12.5KHz, Analog modulation, Assigned Frequency: 173.95MHz, High Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	173.950016 MHz	34.72 dBm		
T1		1	173.9450469 MHz	15.65 dBm	Occ Bw	9.96875 kHz
T2		1	173.9550156 MHz	15.61 dBm		
D2	M1	1	-5.08 kHz	-29.45 dB		
D3	M1	1	5.08 kHz	-25.94 dB		

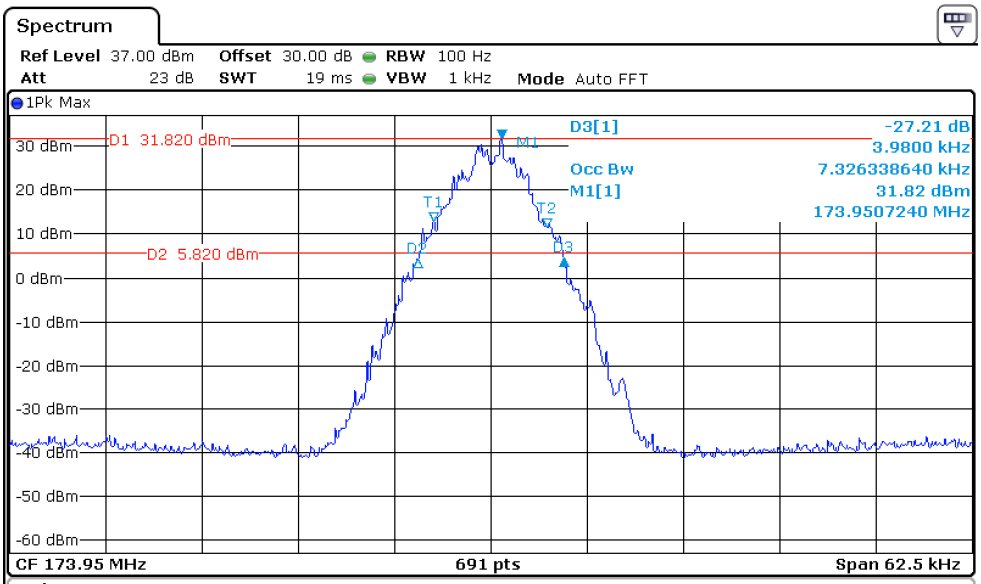
12.5KHz, Analog modulation, Assigned Frequency: 173.95MHz, Low Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	173.950016 MHz	28.97 dBm		
T1		1	173.9450469 MHz	9.76 dBm	Occ Bw	9.96875 kHz
T2		1	173.9550156 MHz	9.51 dBm		
D2	M1	1	-5.094 kHz	-31.78 dB		
D3	M1	1	5.111 kHz	-31.50 dB		

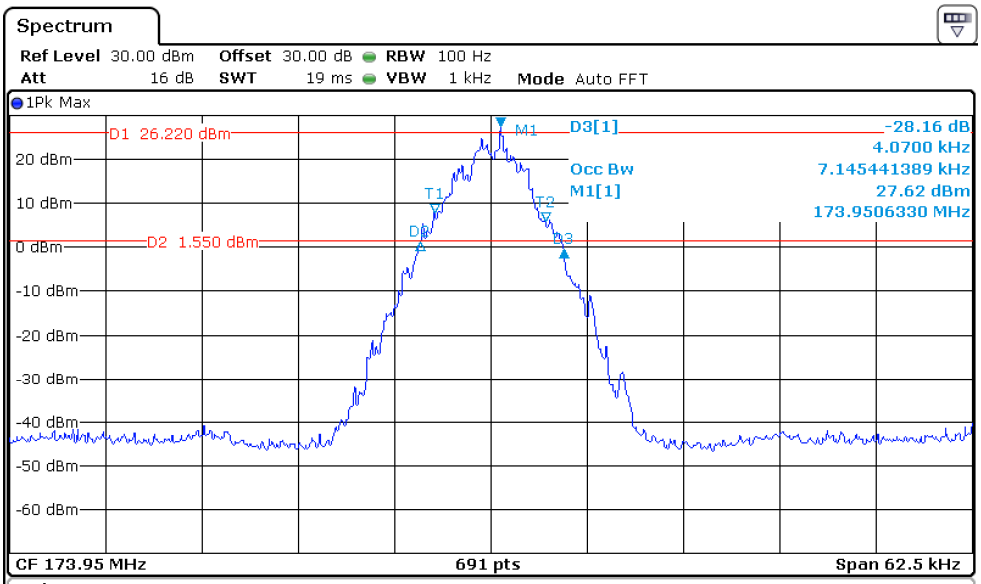
12.5KHz, Digital modulation, Assigned Frequency: 173.95MHz, High Power



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	173.950724 MHz	31.82 dBm		
T1		1	173.9462916 MHz	12.78 dBm	Occ Bw	7.32633864 kHz
T2		1	173.9536179 MHz	11.40 dBm		
D2	M1	1	-5.427 kHz	-27.61 dB		
D3	M1	1	3.98 kHz	-27.21 dB		

12.5KHz, Digital modulation, Assigned Frequency: 173.95MHz, Low Power

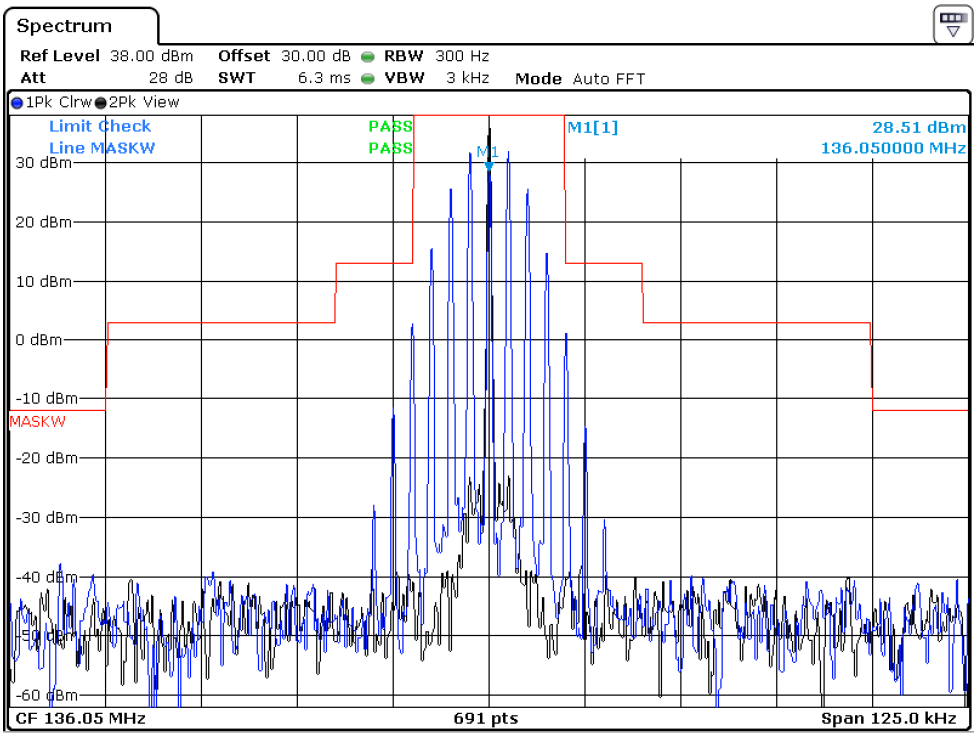


Marker

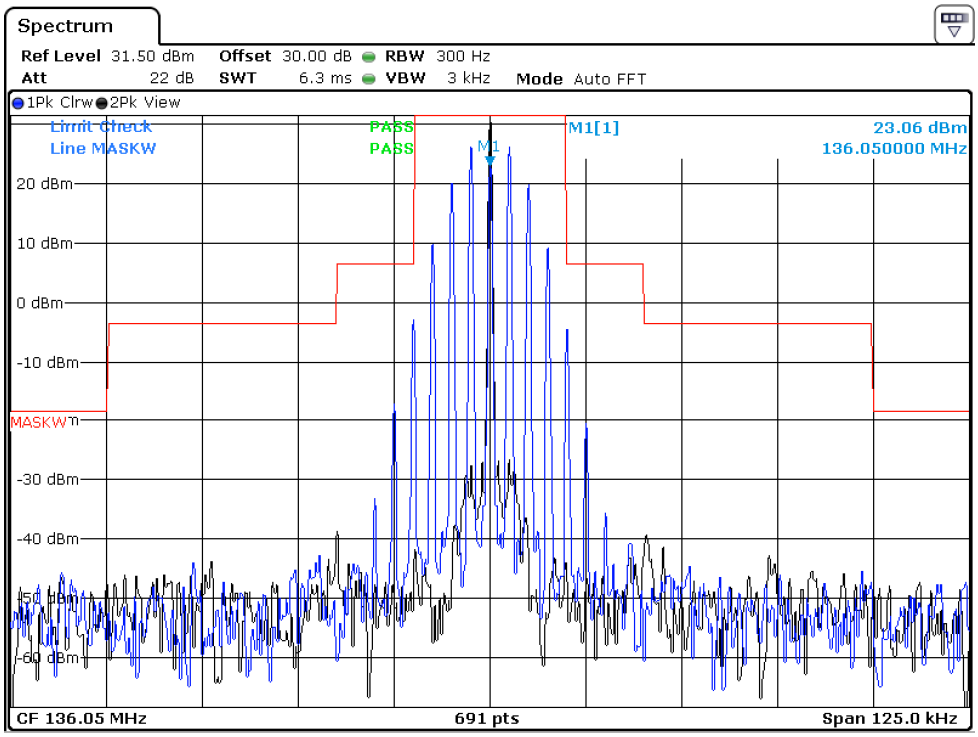
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	173.950633 MHz	27.62 dBm		
T1		1	173.9463821 MHz	7.97 dBm	Occ Bw	7.145441389 kHz
T2		1	173.9535275 MHz	5.77 dBm		
D2	M1	1	-5.246 kHz	-26.46 dB		
D3	M1	1	4.07 kHz	-28.16 dB		

7.Emission Mask

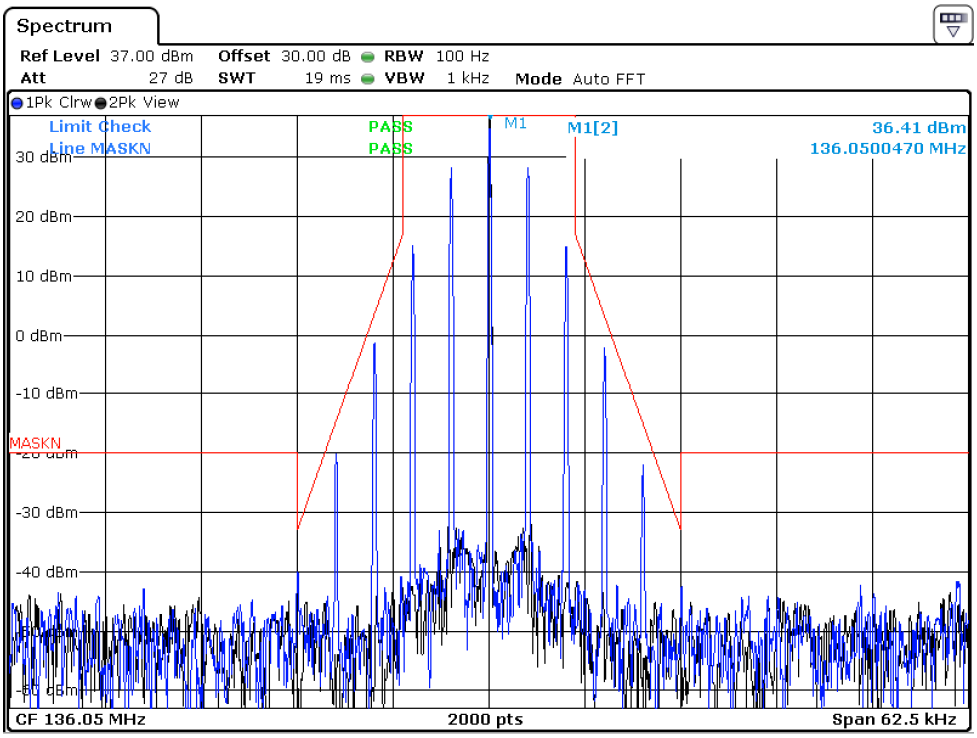
25KHz, Analog modulation, Assigned Frequency: 136.05MHz, High Power



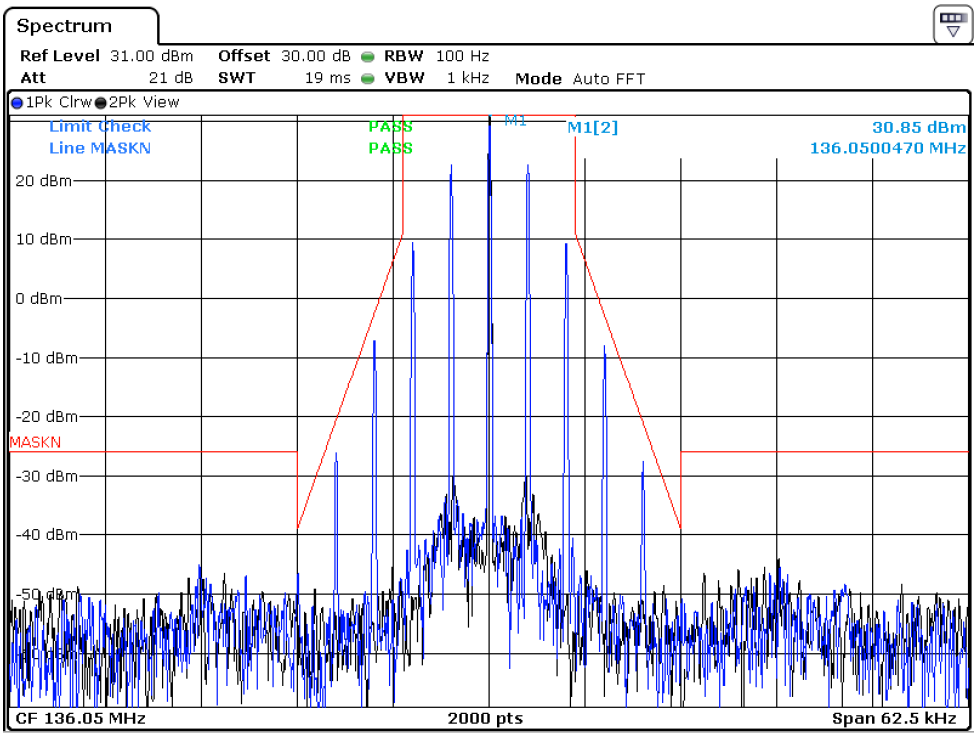
25KHz, Analog modulation, Assigned Frequency: 136.05MHz, Low Power



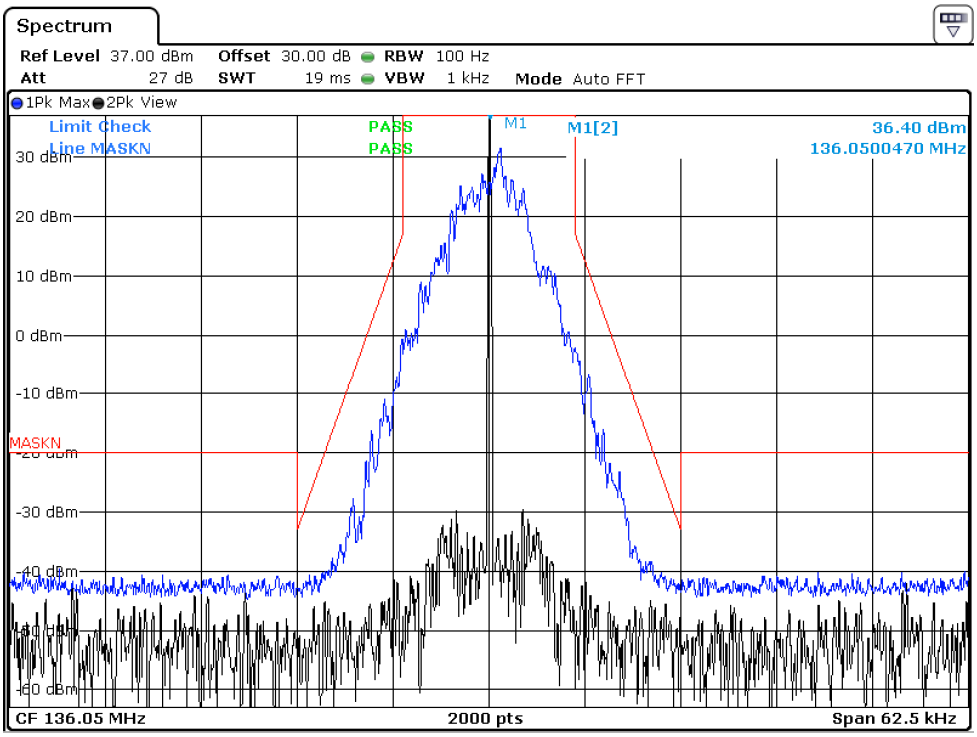
12.5KHz, Analog modulation, Assigned Frequency: 136.05MHz, High Power



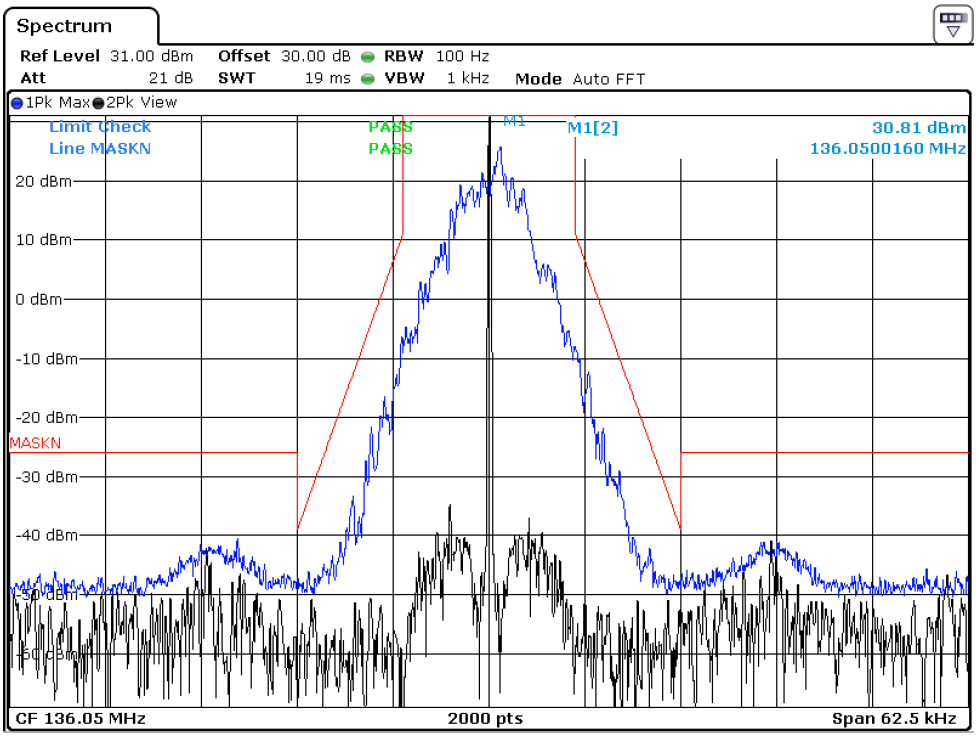
12.5KHz, Analog modulation, Assigned Frequency: 136.05MHz, Low Power



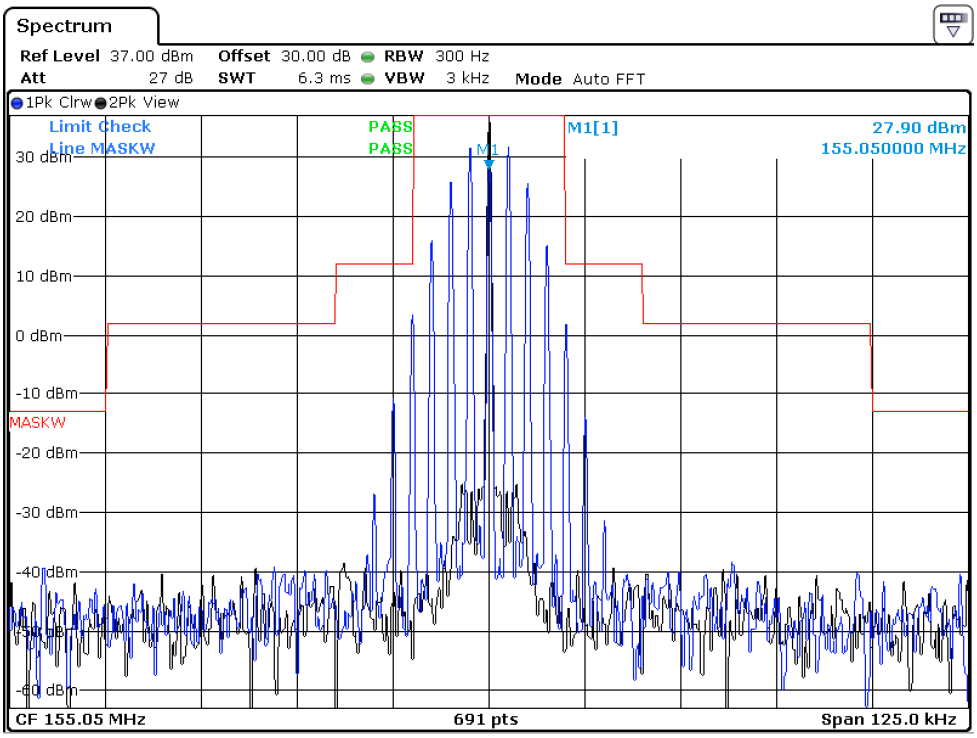
12.5KHz, Digital modulation, Assigned Frequency: 136.05MHz, High Power



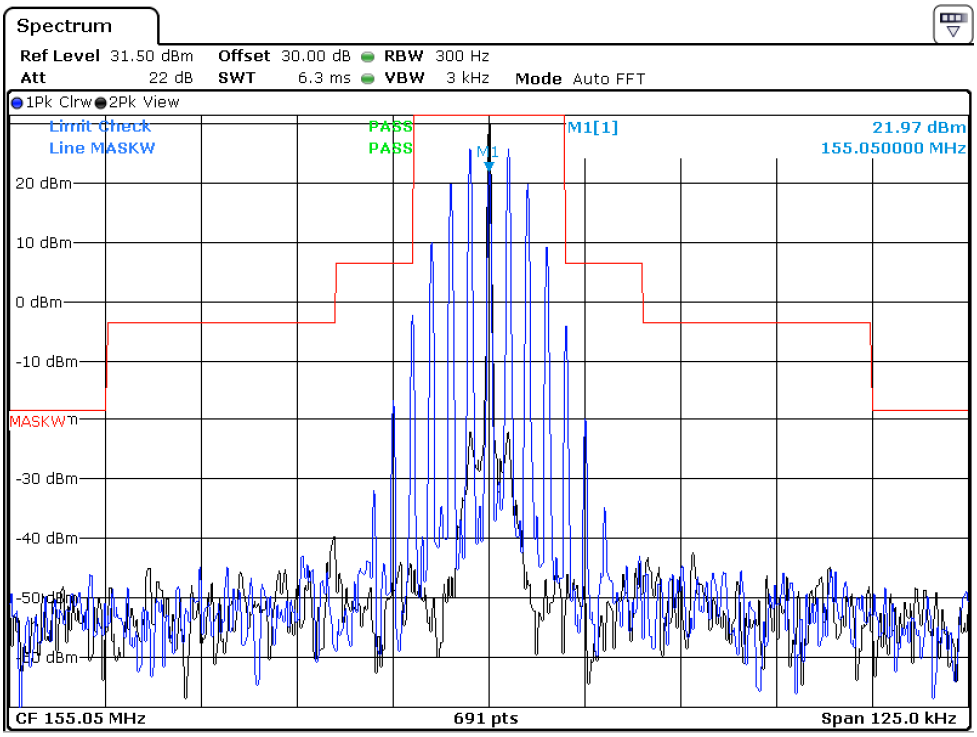
12.5KHz, Digital modulation, Assigned Frequency: 136.05MHz, Low Power



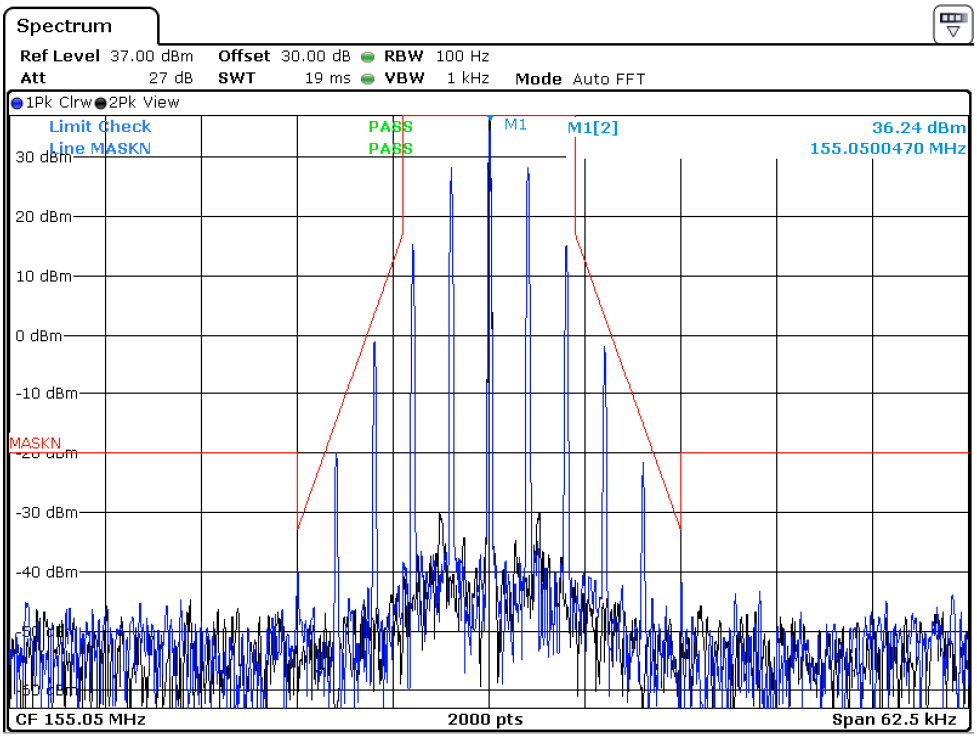
25KHz, Analog modulation, Assigned Frequency: 155.05MHz, High Power



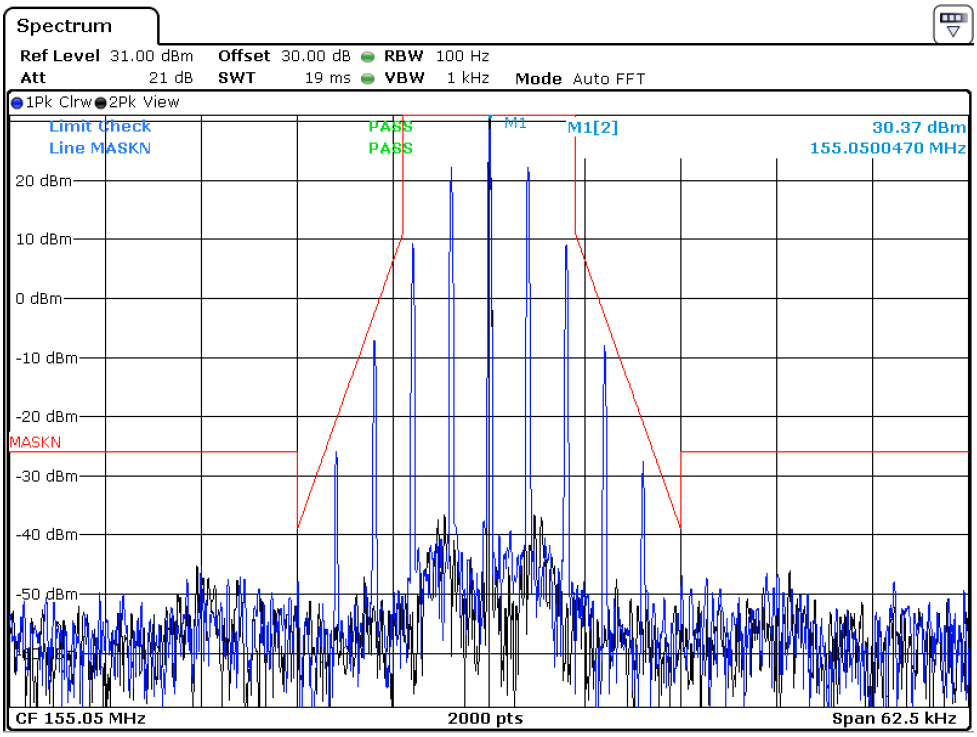
25KHz, Analog modulation, Assigned Frequency: 155.05MHz, Low Power



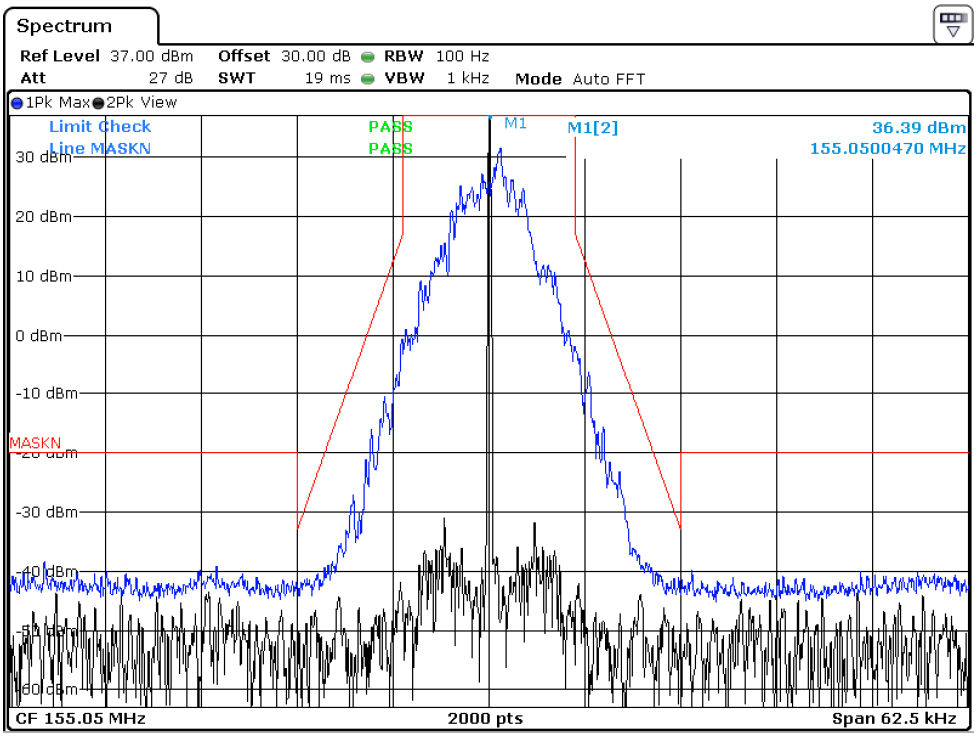
12.5KHz, Analog modulation, Assigned Frequency:155.05MHz, High Power



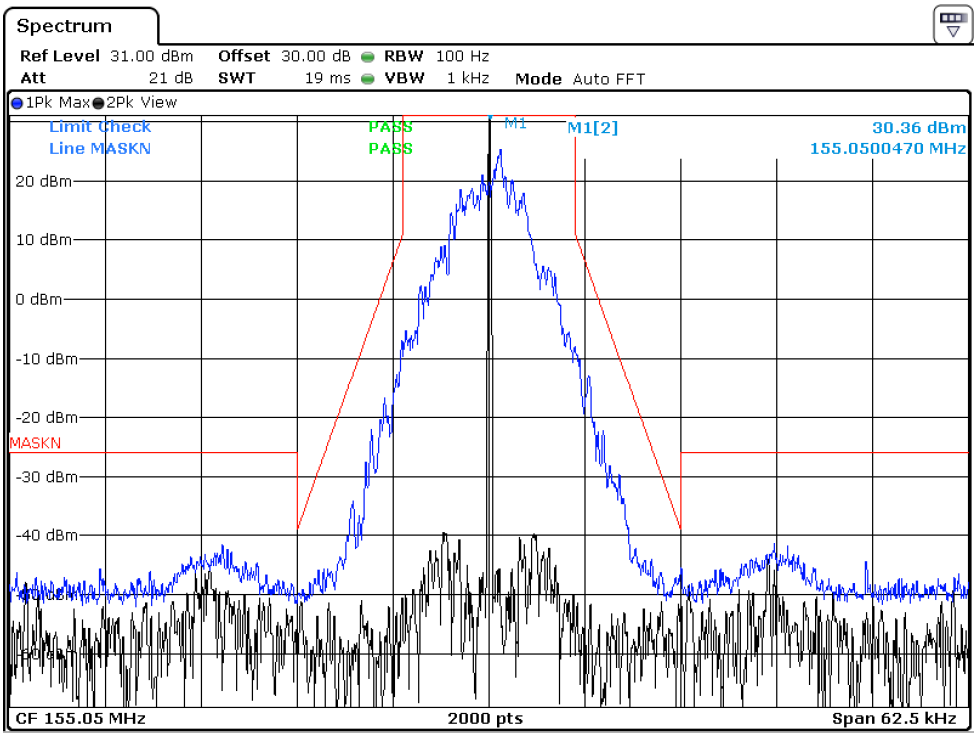
12.5KHz, Analog modulation, Assigned Frequency:155.05MHz, Low Power



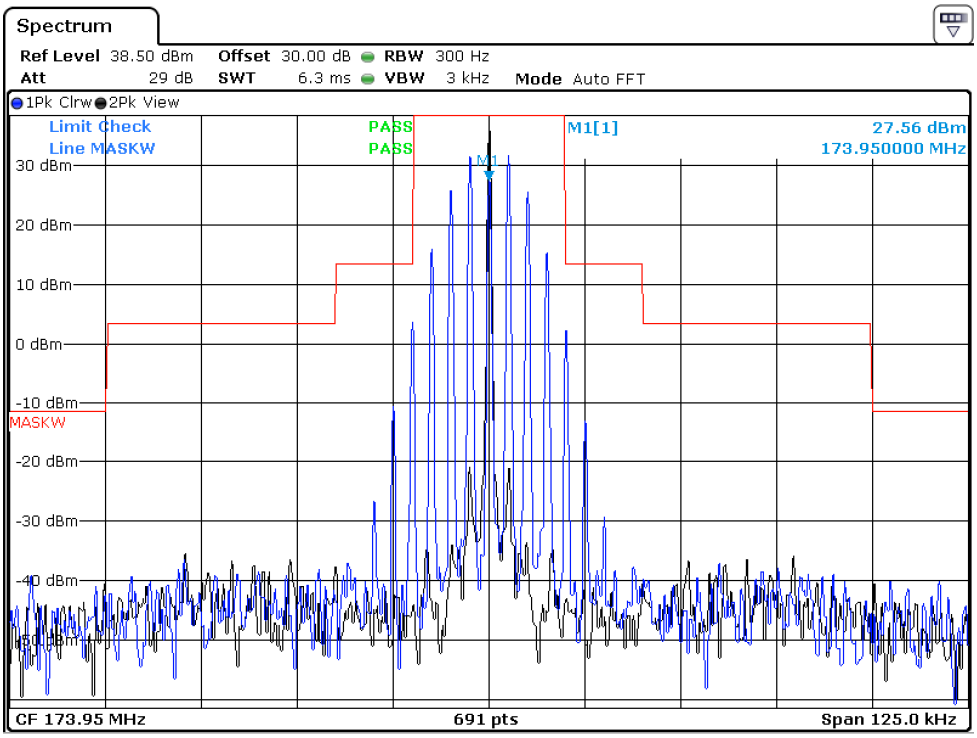
12.5KHz, Digital modulation, Assigned Frequency:155.05MHz, High Power



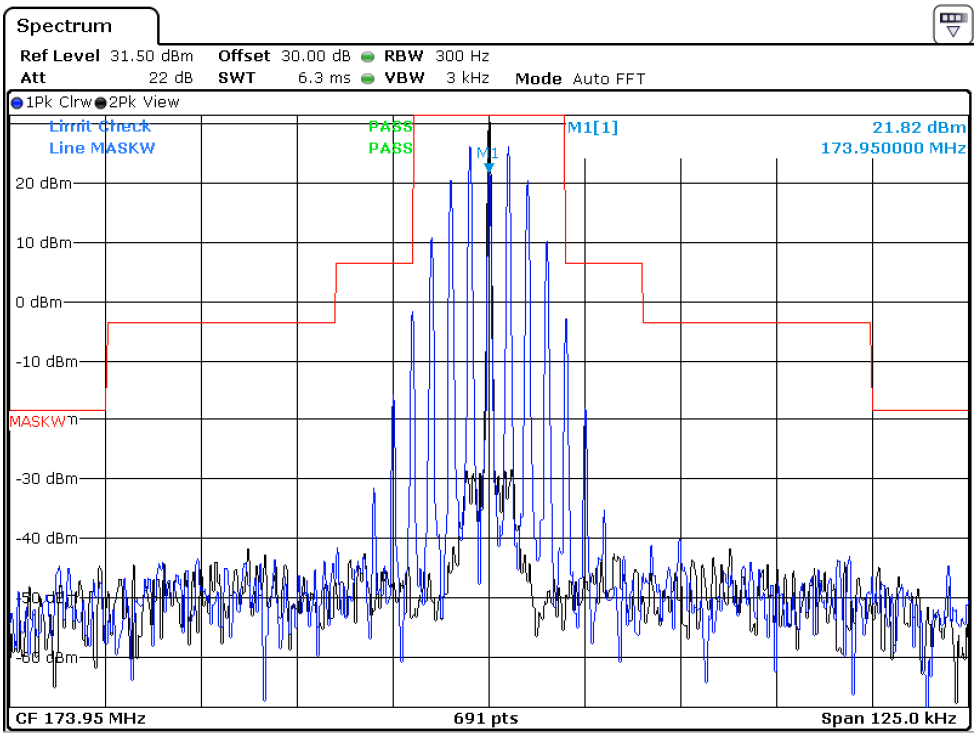
12.5KHz, Digital modulation, Assigned Frequency:155.05MHz, Low Power



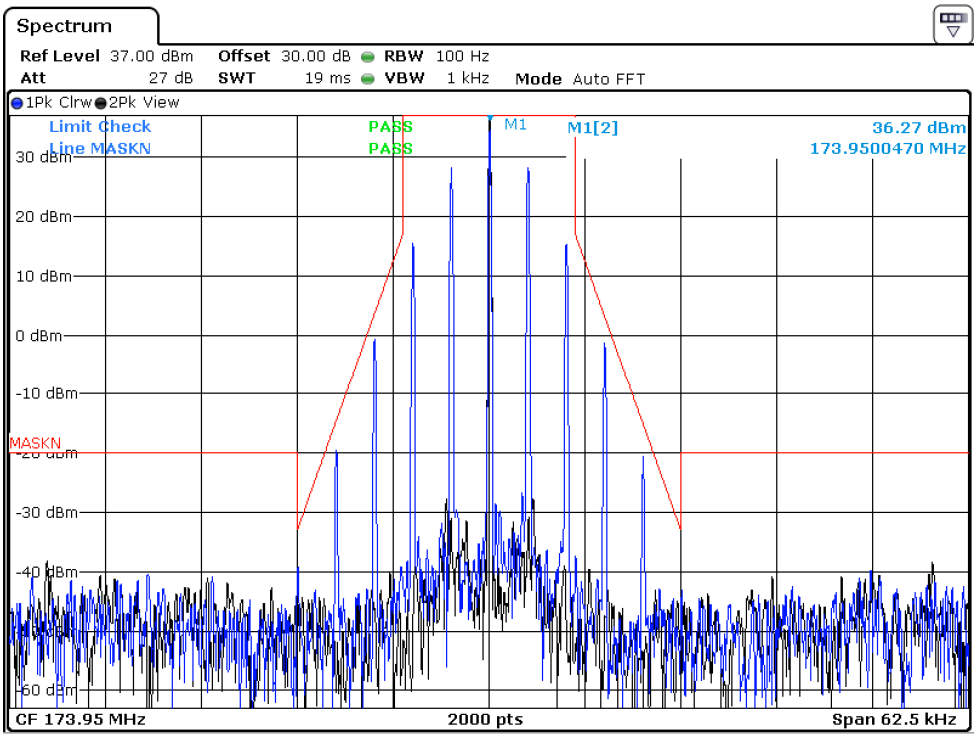
25KHz, Analog modulation, Assigned Frequency:173.95MHz, High Power



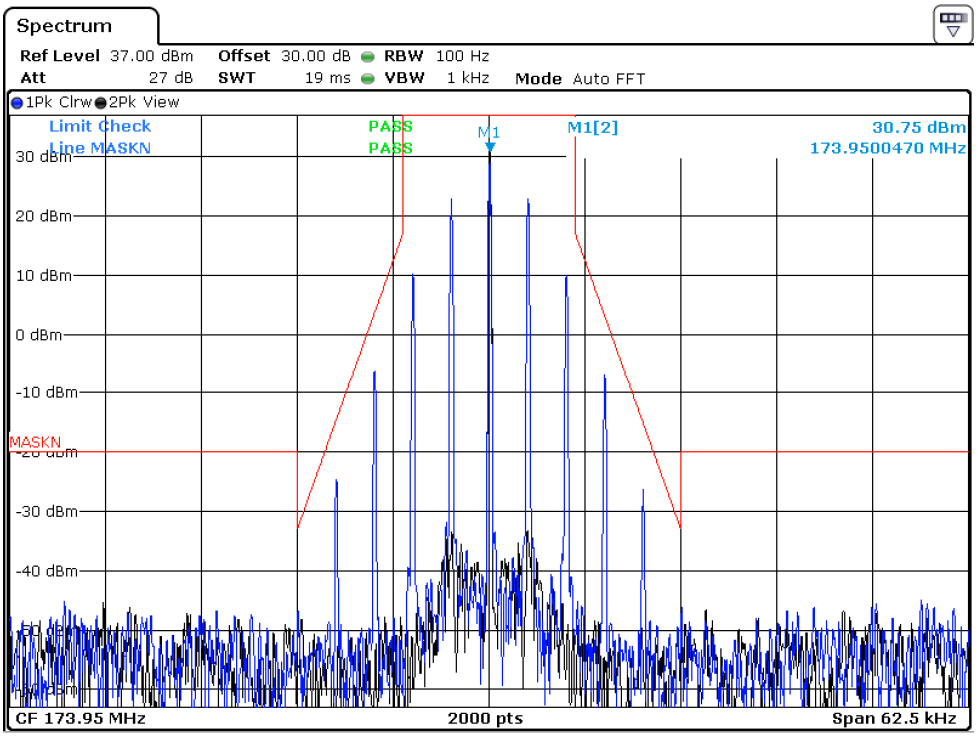
25KHz, Analog modulation, Assigned Frequency:173.95MHz, Low Power



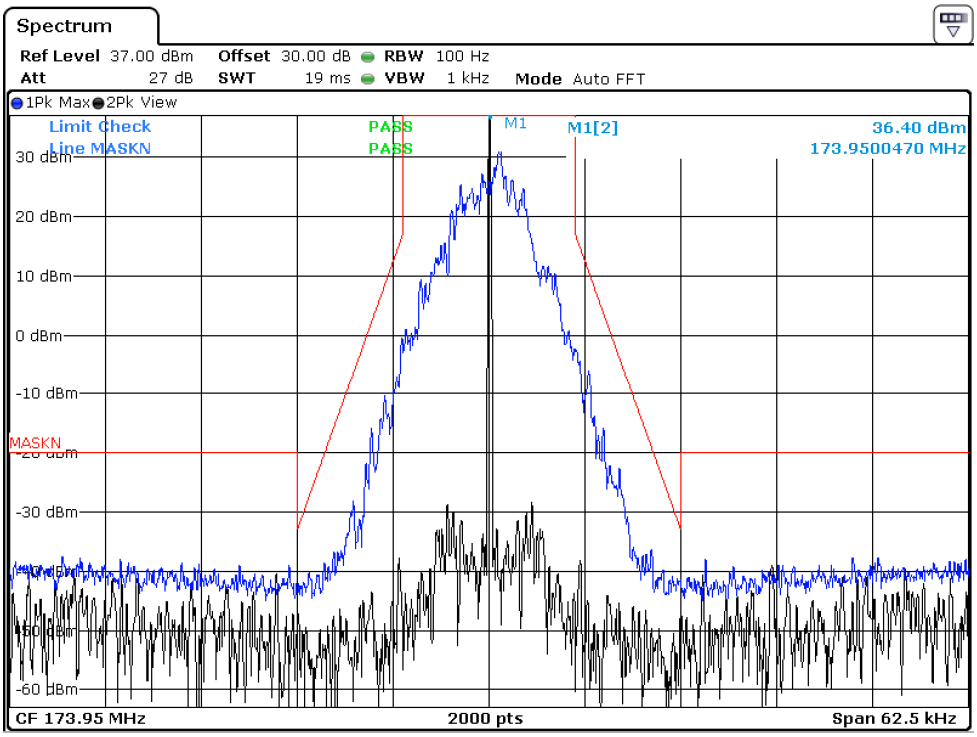
12.5KHz, Analog modulation, Assigned Frequency: 173.95MHz, High Power



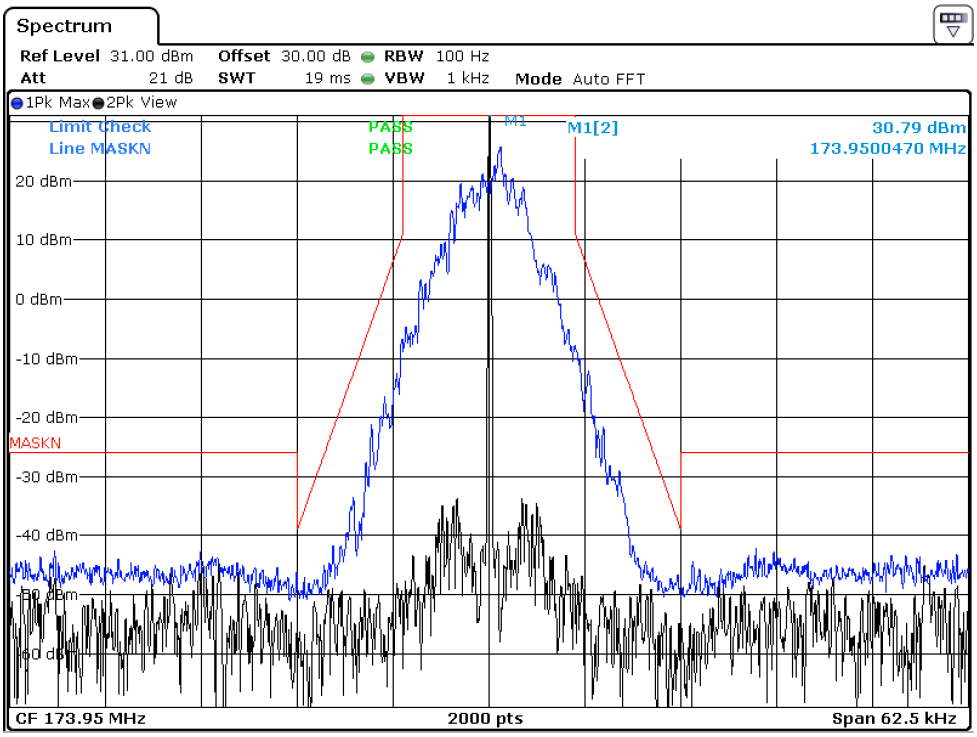
12.5KHz, Analog modulation, Assigned Frequency: 173.95MHz, Low Power



12.5KHz, Digital modulation, Assigned Frequency: 173.95MHz, High Power

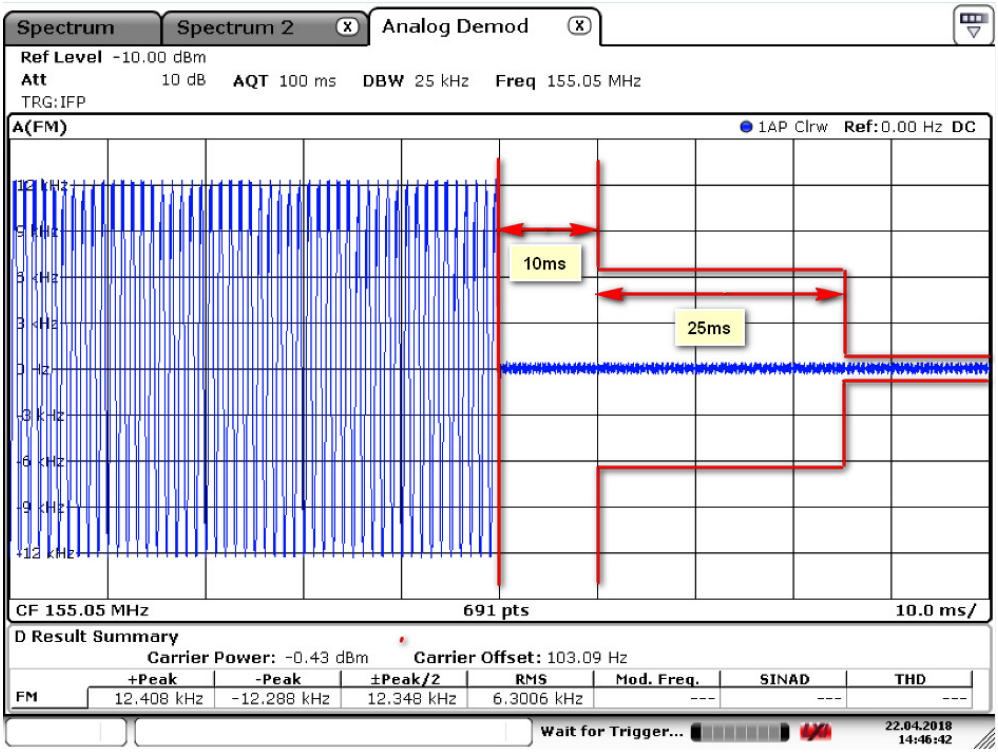


12.5KHz, Digital modulation, Assigned Frequency: 173.95MHz, Low Power

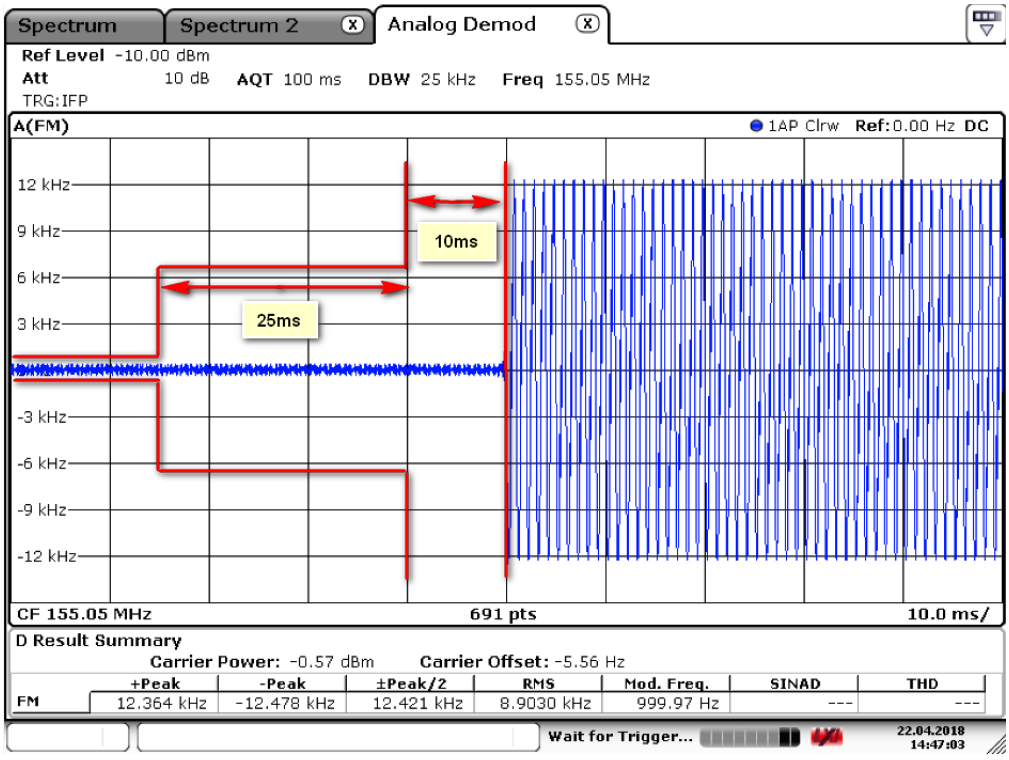


8.Transient Frequency Behavior

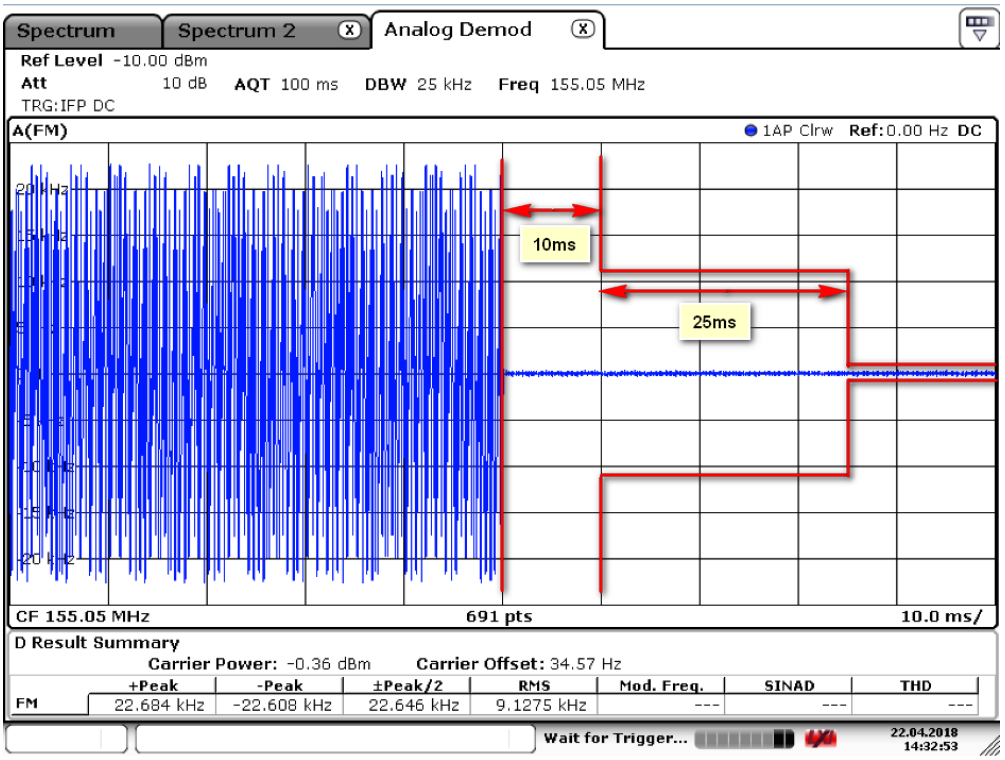
12.5KHz, Analog modulation, Assigned Frequency:155.05MHz, Turn On



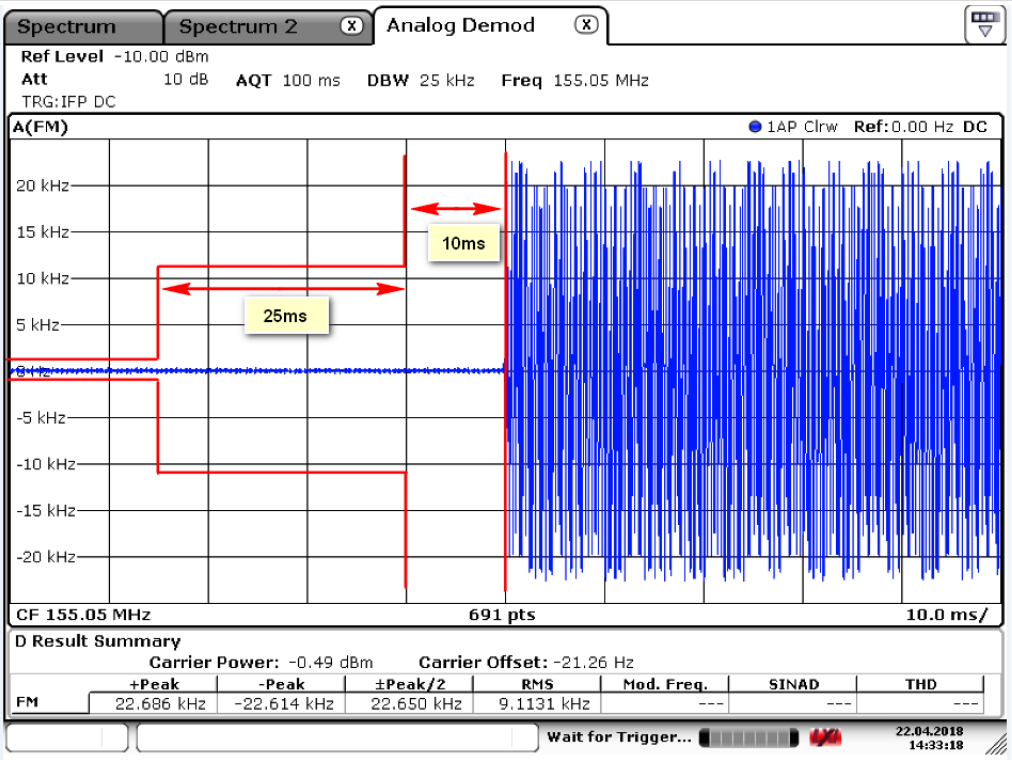
12.5KHz, Analog modulation, Assigned Frequency:155.05MHz, Turn Off



25KHz, Analog modulation, Assigned Frequency:155.05MHz, Turn On

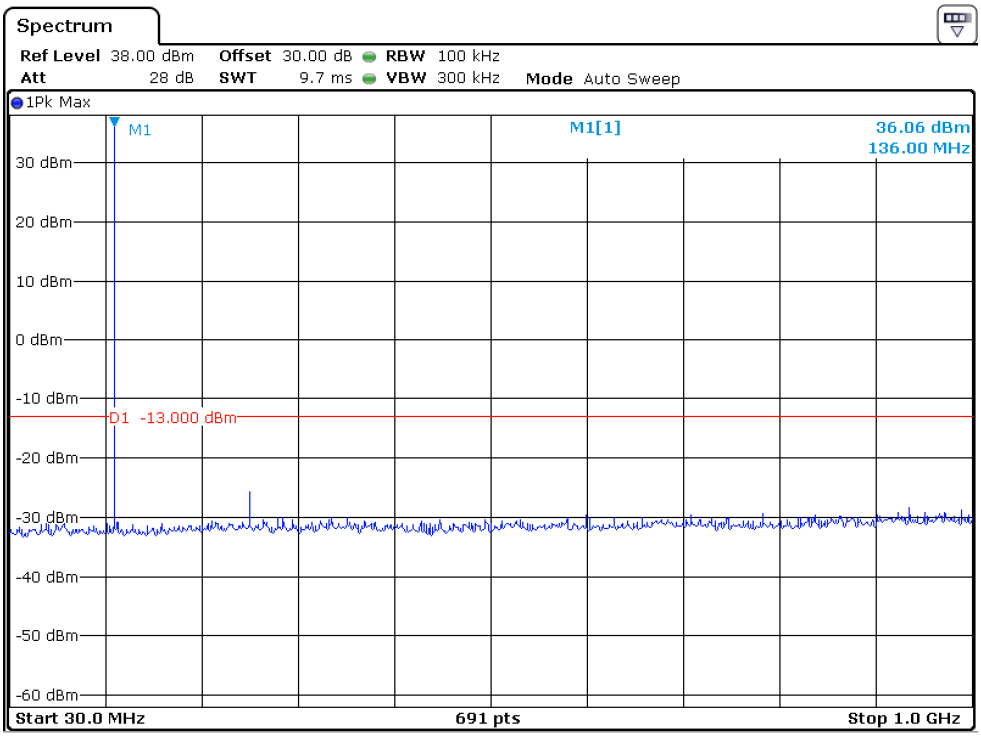


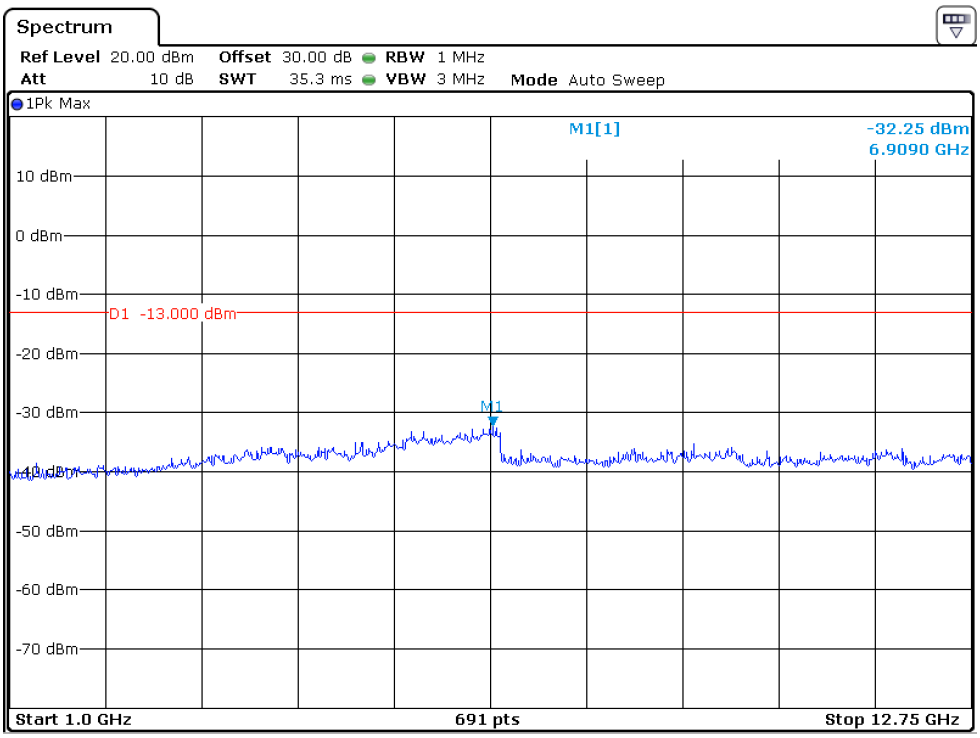
25KHz, Analog modulation, Assigned Frequency:155.05MHz, Turn Off



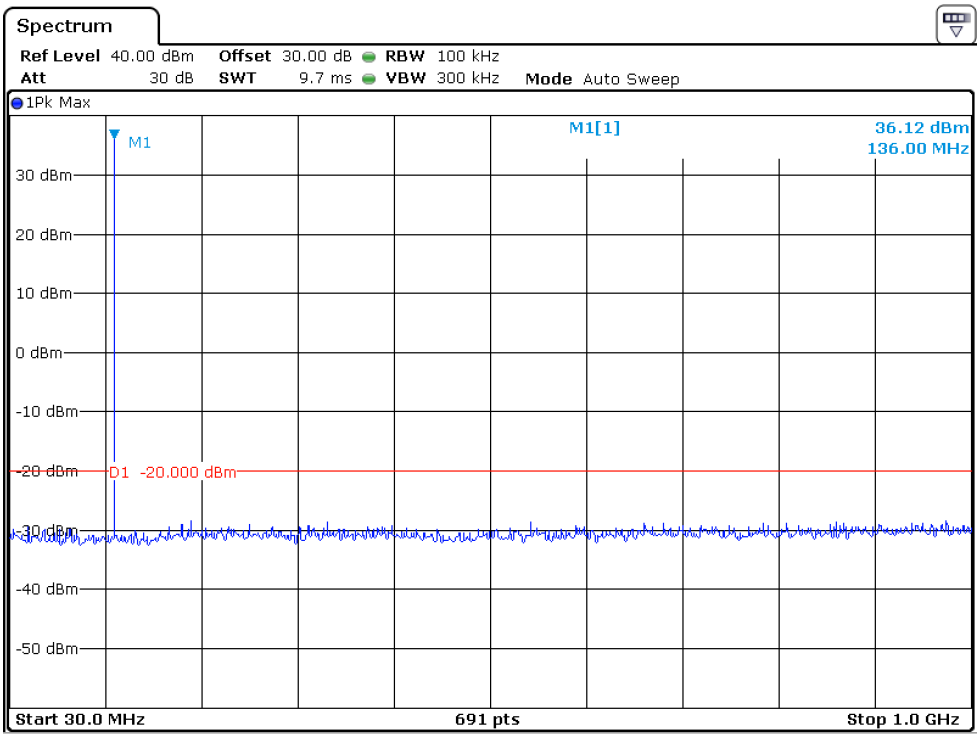
9.Conducted Spurious Emission

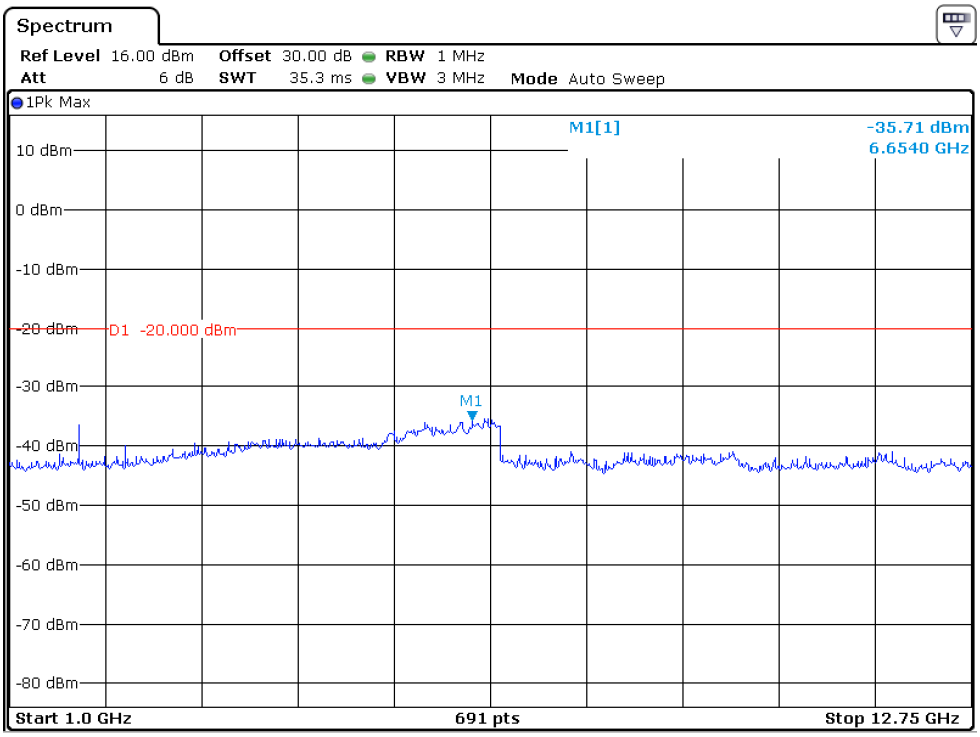
25KHz, Analog modulation, Assigned Frequency:136.05MHz, High Power



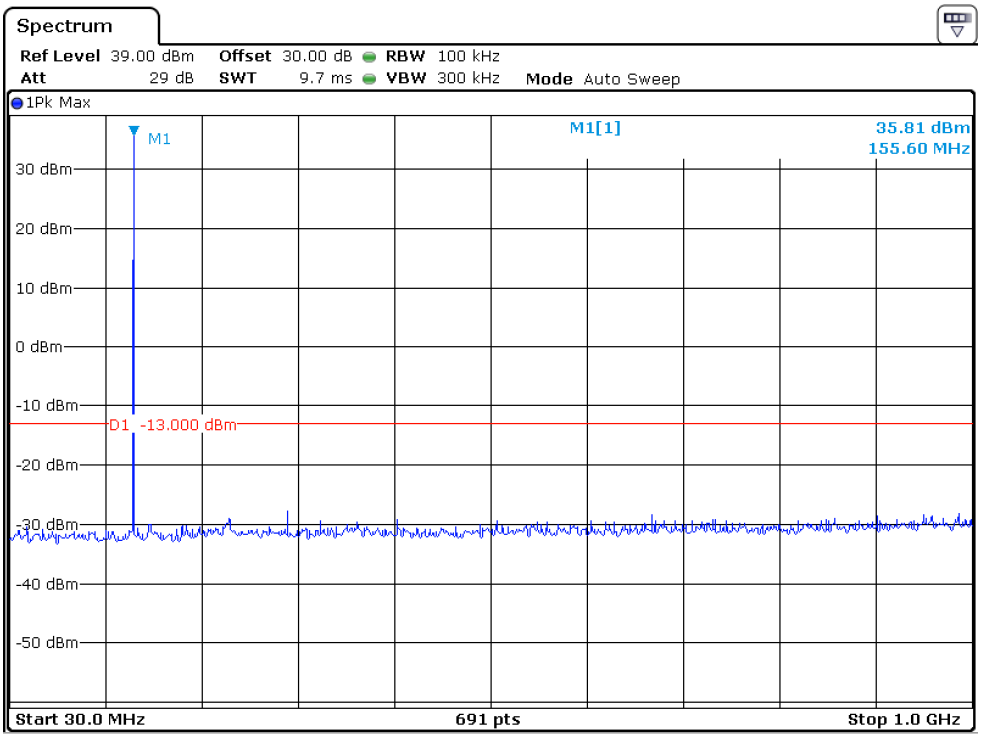


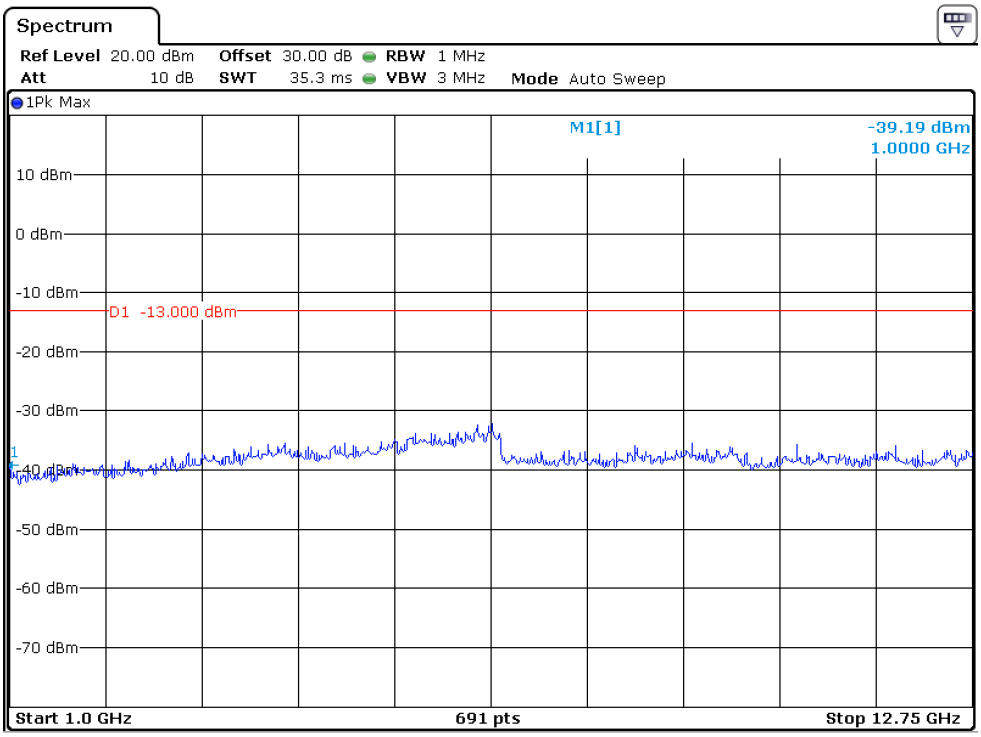
12.5KHz, Analog modulation, Assigned Frequency:136.05MHz, High Power



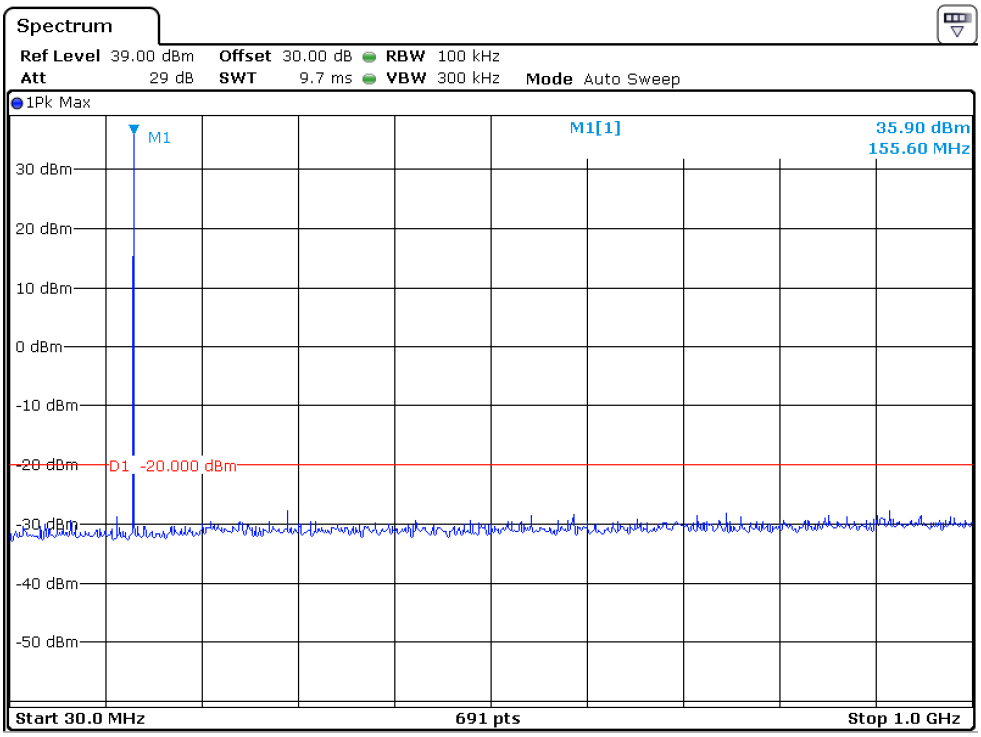


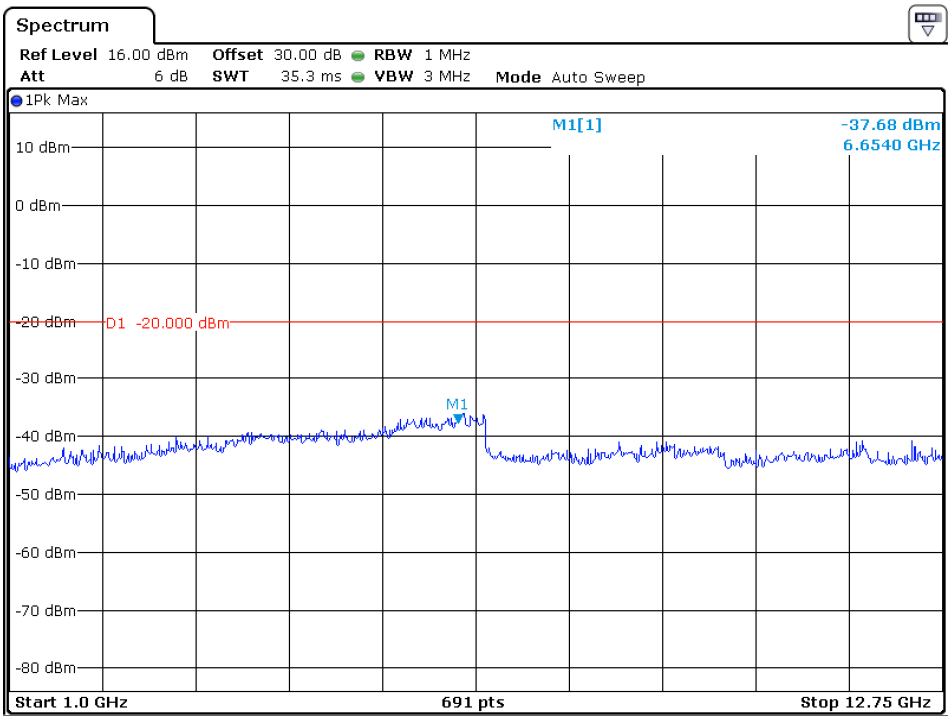
25KHz, Analog modulation, Assigned Frequency:155.05MHz, High Power



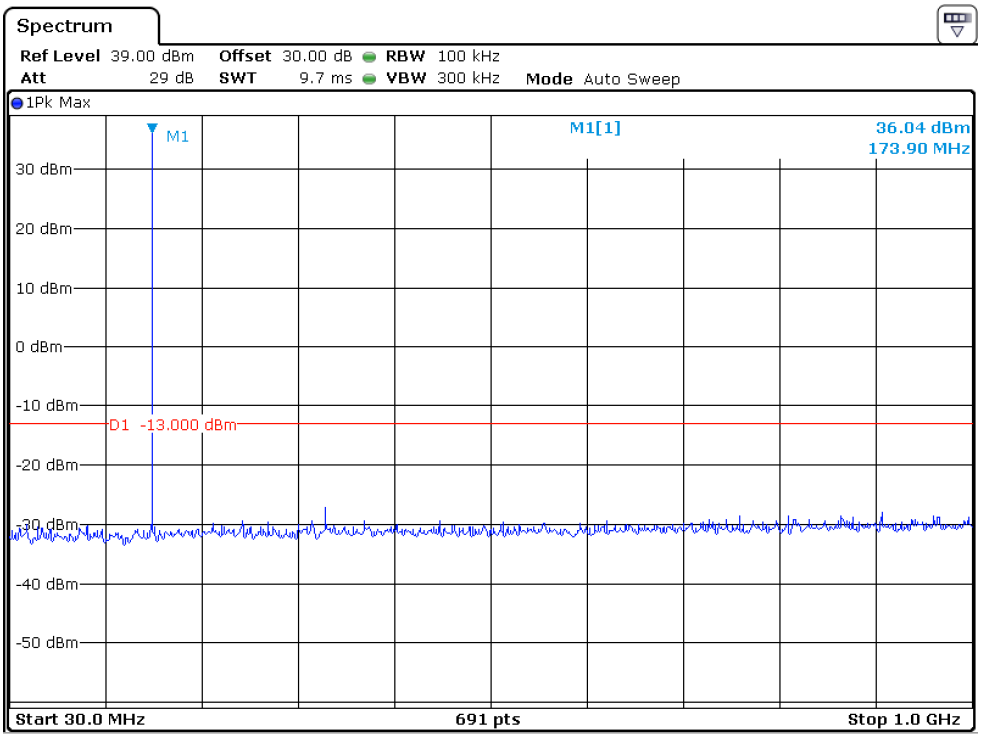


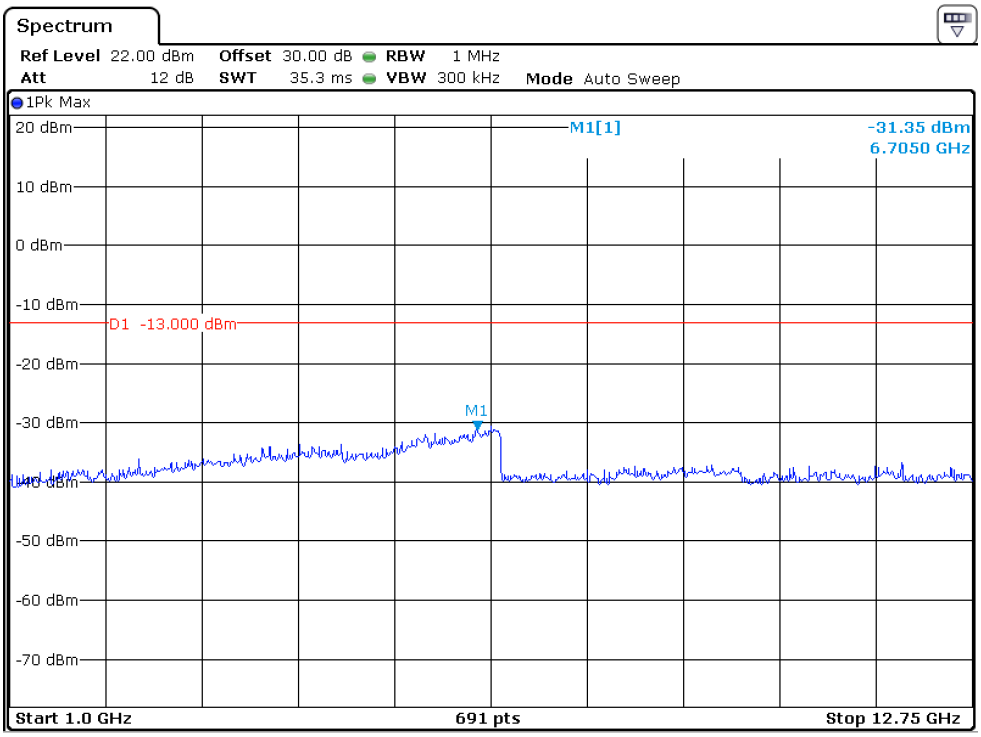
12.5KHz, Analog modulation, Assigned Frequency:155.05MHz, High Power



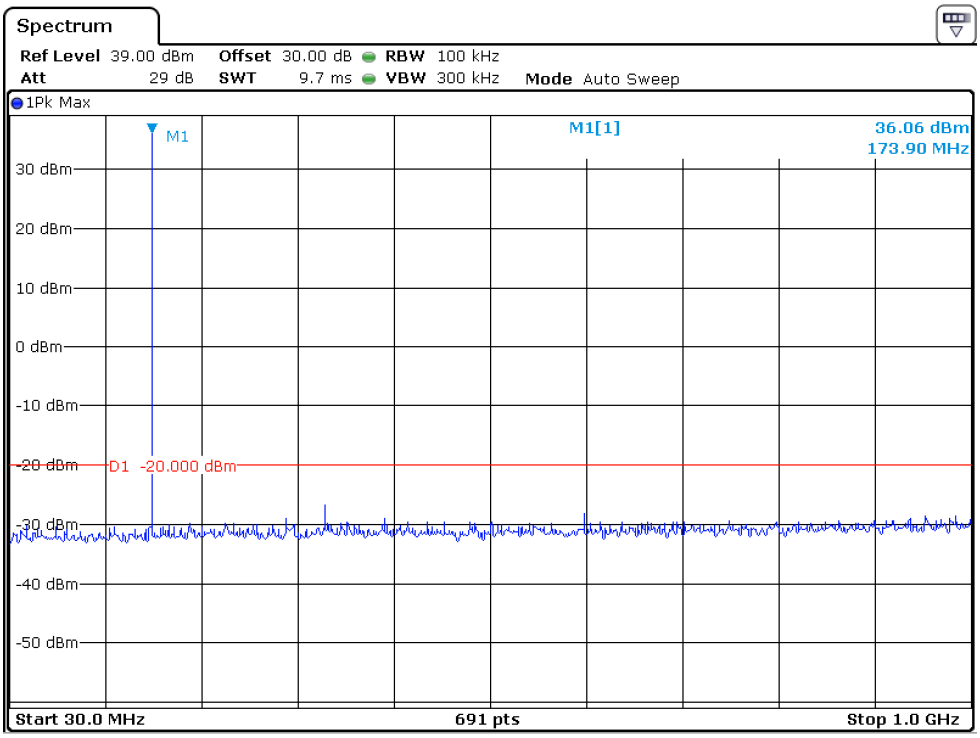


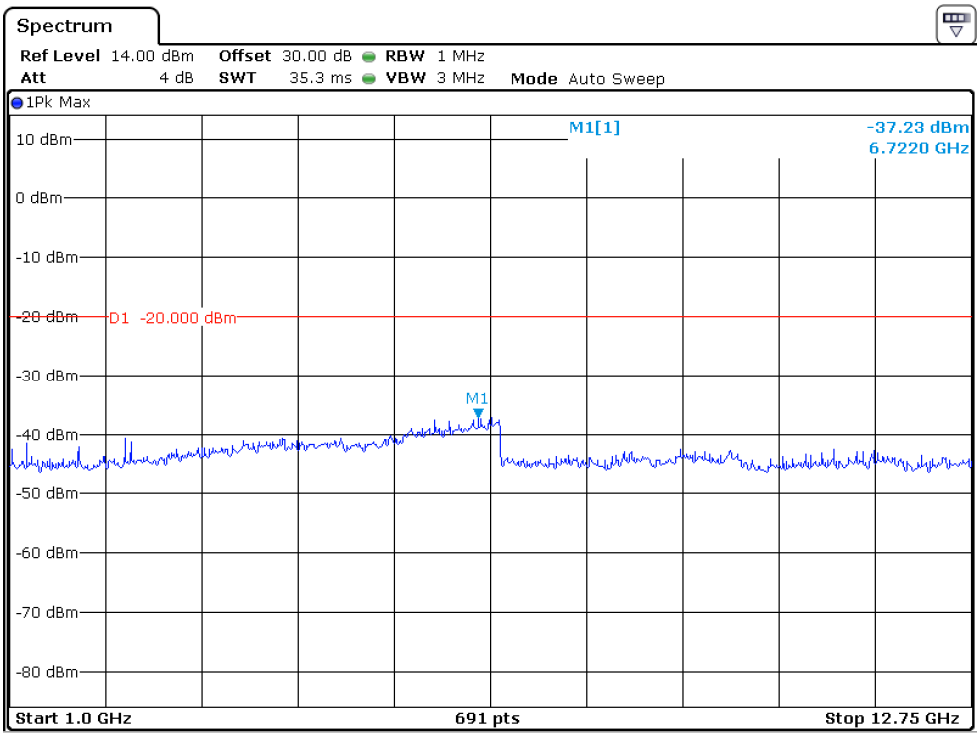
25KHz, Analog modulation, Assigned Frequency:173.95MHz, High Power





12.5KHz, Analog modulation, Assigned Frequency:173.95MHz, High Power





10.Radiated Spurious Emission

12.5KHz, Analog modulation, Assigned Frequency: 136.05MHz, High Power								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Polarization (H/V)	Result
2600.27	-43.08	0.59	5.3	-40.52	-20.00	-20.52	Horizontal	Pass
4508.81	-56.16	0.76	9.7	-49.37	-20.00	-29.37	Horizontal	Pass
5401.25	-54.9	0.82	9.6	-48.27	-20.00	-28.27	Horizontal	Pass
2580.26	-51	0.59	5.3	-48.44	-20.00	-28.44	Vertical	Pass
3383.42	-45.88	0.65	6.2	-42.48	-20.00	-22.48	Vertical	Pass
3967.81	-55	0.71	7.6	-50.26	-20.00	-30.26	Vertical	Pass

12.5KHz, Analog modulation, Assigned Frequency: 155.05MHz, High Power								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Polarization (H/V)	Result
2602.99	-41.66	0.59	5.3	-39.1	-20.00	-19.1	Horizontal	Pass
4511.53	-54.74	0.76	9.7	-47.95	-20.00	-27.95	Horizontal	Pass
5403.97	-53.48	0.82	9.6	-46.85	-20.00	-26.85	Horizontal	Pass
2582.98	-49.58	0.59	5.3	-47.02	-20.00	-27.02	Vertical	Pass
3586.14	-45.8	0.71	7.6	-41.06	-20.00	-21.06	Vertical	Pass
3970.53	-53.58	0.71	7.6	-48.84	-20.00	-28.84	Vertical	Pass

12.5KHz, Analog modulation, Assigned Frequency: 173.95MHz, High Power								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Polarization (H/V)	Result
2599.49	-43.74	0.59	5.3	-41.18	-20.00	-21.18	Horizontal	Pass
4508.03	-56.82	0.76	9.7	-50.03	-20.00	-30.03	Horizontal	Pass
5400.47	-55.56	0.82	9.6	-48.93	-20.00	-28.93	Horizontal	Pass
2579.48	-51.66	0.59	5.3	-49.1	-20.00	-29.1	Vertical	Pass
3182.64	-46.54	0.65	6.2	-43.14	-20.00	-23.14	Vertical	Pass
3967.03	-55.66	0.71	7.6	-50.92	-20.00	-30.92	Vertical	Pass