

TEST REPORT

Report No. : **CHTEW23100069**

Report verification:



Project No. : **SHT2304024504EW**

FCC ID : **2AE6C-EP8100VHF**

Applicant's name : **Shenzhen Excera Technology Co., Ltd.**

Address..... : 201, Building B, Tongfang Information Harbour, No.11 Langshan Road, Nanshan District, Shenzhen 518057, P.R.China

Product name : **Digital Portable Radio**

Trade Mark..... : EXCERA

Model No. : EP8100 VHF

Listed Model(s)..... : EP8000 VHF

Standard..... : **FCC CFR Title 47 Part 90**

Date of receipt of test sample..... : Aug. 10, 2023

Date of testing..... : Aug. 29, 2023- Oct. 13, 2023

Date of issue..... : Oct. 19, 2023

Result : **PASS**

Compiled by

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Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

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The test report merely correspond to the test sample.

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1 TEST STANDARDS AND REPORT VERSION

1.1. Test standard

The tests were performed according to following standards:

[FCC Rules Part 90](#): Private land mobile radio services.

[FCC Rules Part 2](#): Frequency allocations and radio treaty matters; General rules and regulations

[ANSI C63.26-2015](#): American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

[ANSI/TIA-603-E-2016](#): Land Mobile FM or PM Communications Equipment and Performance Standards

1.2. Report revised information

Revised No.	Date of issued	Description
N/A	2023-10-19	Original

2 TEST DESCRIPTION

Section	Test Item	Section	Result	Test Engineer
5.1	Conducted carrier output power	Part 90.205 Part 2.1046(a)	Pass	Caspar Chen
5.2	99% occupied bandwidth & 26dB bandwidth	Part 90.209 & 210 Part 2.1049	Pass	Caspar Chen
5.3	Emission mask	Part 90.209 & 210 Part 2.1049	Pass	Caspar Chen
5.4	Modulation limit	Part 2.1047(b)	Pass	Caspar Chen
5.5	Audio frequency response	Part 2.1047(a)	Pass	Caspar Chen
5.6	Frequency stability VS temperature	Part 90.213 Part 2.1055	Pass	Caspar Chen
5.7	Frequency stability VS voltage	Part 90.213 Part 2.1055	Pass	Caspar Chen
5.8	Transient frequency behavior	Part 90.214	Pass	Caspar Chen
5.9	Transmit conducted spurious emission	Part 90.210 Part 2.1051	Pass	Caspar Chen
5.10	Transmit radiated spurious emission	Part 90.210 Part 2.1053	Pass	Yifan Wang

Note:

The measurement uncertainty is not included in the test result.

3 SUMMARY

3.1 Client information

Applicant:	Shenzhen Excera Technology Co., Ltd.
Address:	201, Building B, Tongfang Information Harbour, No.11 Langshan Road, Nanshan District, Shenzhen 518057, P.R.China
Manufacturer:	Shenzhen Excera Technology Co., Ltd.
Address:	201, Building B, Tongfang Information Harbour, No.11 Langshan Road, Nanshan District, Shenzhen 518057, P.R.China
Factory:	Shenzhen Excera Technology Co., Ltd.
Address:	201, Building B, Tongfang Information Harbour, No.11 Langshan Road, Nanshan District, Shenzhen 518057, P.R.China

3.2 Product description

Main unit information:	
Product name:	Digital Portable Radio
Trade mark:	EXCERA
Model No.:	EP8100 VHF
Listed model(s):	EP8000 VHF
Power supply:	DC 7.2V from Battery
Hardware version:	EP8100 VHF -F
Software version:	EXCERA OneKeyUpdate 1.4.01.15D
Accessory unit information:	
Battery information:	MODEL: EB242L DC 7.2V 2400mAh/17.28Wh
Charger information:	MODEL: DSA-12PFU-12 FCA 120100 INPUT:100-240V~50/60Hz 0.5A OUTPUT: DC 12V 1.0A, 12W
Adapter information:	MODEL: ESC102L INPUT: DC 12V 1A OUTPUT: DC 8.4V 1A

3.3 Radio Specification Description ^{*1}

Device type:	<input checked="" type="checkbox"/> Portable <input type="checkbox"/> Mobile
Support Frequency Range:	136MHz~174MHz
Support type:	<input checked="" type="checkbox"/> Analog <input checked="" type="checkbox"/> Digital
Support digital protocol: ^{*3}	DMR
Support data rate for DMR:	9.6kbps
Modulation type:	Analog: FM
	Digital: 4FSK

Channel Separation:	Analog:	<input checked="" type="checkbox"/> 12.5kHz	<input type="checkbox"/> 25kHz
	Digital :	<input type="checkbox"/> 6.25kHz	<input checked="" type="checkbox"/> 12.5kHz
Emission Designator: *4	Analog:	11K0F3E	
	Digital:	7K10FXE, 7K10FXD	
Rated power class:	<input checked="" type="checkbox"/> High Power: 4.2W	<input checked="" type="checkbox"/> Low Power: 1.2W	
Antenna Type:	Helicalantenna		
Antenna Gain:	0dBi		

Note:

- (1) *¹ This information is provided by this applicant.
- (2) *³ The DMR standard specifies two-slot Time Division Multiplexing Technology to split the 12.5 kHz channel into two virtual 6.25kHz communication paths. This equates to an efficiency of one voice channel per 6.25 kHz of bandwidth even though it operates in channels of 12.5 kHz
- (3) *⁴ According to FCC Part 2.202 requirements, the Necessary Bandwidth is calculated as follows:
- For FM Voice Modulation
Channel Spacing = 12.5 KHz, D = 2.5 KHz max, K = 1, M = 3 KHz
 $B_n = 2M + 2DK = 2*3 + 2*2.5*1 = 11 \text{ KHz}$
Emission designation: 11K0F3E
 - For FM Data Modulation
Channel Spacing = 12.5 KHz, R = 9600 bps, D = 2160 Hz, S = 4, K = 0.518
 $B_n = (R/\log_2 S) + 2DK = 7037 \approx 7.1 \text{ KHz}$
Emission designation: 7K10FXE, 7K10FXD

3.4 Testing laboratory information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China	
Connect information:	Tel: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC Test Firm Registration Number	762235
	FCC Designation Number	CN1181

4 TEST CONFIGURATION

4.1 Test frequency list

According to ANSI C63.26 section 5.1.2.1:

Measurements of transmitters shall be performed and, if required, reported for each frequency band in which the EUT can be operated with the device transmitting at the number of frequencies in each band specified in Table 2.

Frequency range over which EUT operates	Number of frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

So test frequency as follow:

Frequency Bands (MHz)	Test Channel	Test Frequency (MHz)
136MHz ~ 174MHz	CH _L	136.1
	CH _M	155
	CH _H	173.9

4.2 Operation mode

Test Mode	Transmitting	Digital	Analog	Power Level	
		12.5kHz	12.5kHz	High	Low
TX-DNH	√	√		√	
TX-DNL	√	√			√
TX-ANH	√		√	√	
TX-ANL	√		√		√

Note: √: is operation mode.

Modulation Type	Description
UM	Un-modulation
AM2	Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation.
AM6	Apply a 1000 Hz modulating signal to the transmitter from the audio frequency generator, and adjust the level to obtain 60% of full rated system deviation, then increase the level from the audio generator by 20 dB
AM5	Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation.
DM	A 511 bit binary pseudo-random bit sequence based on ITU-T Rec. O.153

Pre-scan above all test mode, found below test mode which it was worse case mode, so only show the test data for worse case mode on the test report.

Section	Test Item	Modulation Type	Test mode (Worse case mode)
5.1	Conducted carrier output power	UM	TX-DNH, TX-DNL, TX-ANH, TX-ANL, TX-AWH, TX-AWL
5.2	99% occupied bandwidth & 26dB bandwidth	AM6, DM	TX-DNH, TX-DNL, TX-ANH, TX-ANL, TX-AWH, TX-AWL
5.3	Emission mask	AM5, DM	TX-DNH, TX-DNL, TX-ANH, TX-ANL, TX-AWH, TX-AWL
5.4	Modulation limit	AM6	TX-ANH, TX-AWH
5.5	Audio frequency response	AM2	TX-ANH, TX-AWH
5.6	Frequency stability VS temperature	UM	TX-DNH, TX-ANH, TX-AWH
5.7	Frequency stability VS voltage	UM	TX-DNH, TX-ANH, TX-AWH
5.8	Transient frequency behavior	UM	TX-DNH, TX-ANH, TX-AWH
5.9	Transmit conducted spurious emission	AM5, DM	TX-DNH, TX-ANH, TX-AWH
5.10	Transmit radiated spurious emission	AM5, DM	TX-DNH, TX-ANH, TX-AWH

4.3 Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?			
✓ No			
Item	Equipment	Trade Name	Model No.
1			
2			

4.4 Testing environmental condition

Type	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar
Test voltage:	Normal voltage:	DC 7.2V
	Extreme lower voltage:	DC 6.29V
	Extreme upper voltage:	DC 7.2V

4.5 Measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	Conducted Carrier Output Power	0.63
2	99% Occupied Bandwidth & 26dB bandwidth	0.002%
3	Emission Mask	0.92dB
4	Frequency Stability	0.06ppm
5	Transmit Conducted Spurious Emission	1.68dB
6	Transmit Radiated Spurious Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.6 Equipment used during the testing

● RF Conducted test item							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2023/08/22	2024/08/21
●	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2023/08/22	2024/08/21
●	RF Communication Test Set	HP	HTWE0038	8920A	3813A10206	2023/08/22	2024/08/21
●	Digital intercom communication tester	Aeroflex	HTWE0255	3920B	1001682041	2023/08/22	2024/08/21
●	RF Control Unit	Tonscend	HTWE0294	JS0806-2	N/A	2023/08/22	2024/08/21
●	Filter-VHF	Microwave	HTWE0309	N26460M1	498702	2023/08/22	2024/08/21
●	Filter-UHF	Microwave	HTWE0311	N25155M2	498704	2023/08/22	2024/08/21
●	Attenuator	JFW	HTWE0292	50FH-030-100	N/A	2023/05/15	2024/05/14
●	Attenuator	Eastsheep	HTWE0387	NCP-20-3-100W	/	2023/05/15	2024/05/14
●	Attenuator	Eastsheep	HTWE0388	NCP-10-3-100W	/	2023/05/15	2024/05/14
●	High Pass Filter	RFSYS	HTWE0390-05	RFSYS-GTA10	200615-1-04	2023/05/15	2024/05/14
●	Filter-UHF	Microwave	HTWE0310	N26460M1	498703 DC1808	2023/05/15	2024/05/14
●	Filter-VHF	Microwave	HTWE0312	N25155M2	498704 DC1808	2023/05/15	2024/05/14
●	Test software	HTW	N/A	Radio ATE	N/A	N/A	N/A

● Auxiliary Equipment							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Climate chamber	ESPEC	HTWS0715	GPL-2	N/A	2023/08/21	2024/08/20
●	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A

● Radiated Spurious Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2023/4/17	2026/4/16
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2023/08/22	2024/08/21
●	Spectrum Analyzer	R&S	HTWE0385	N9020A	MY54486658	2023/08/22	2024/08/21
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/4/6	2024/4/5
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/2/14	2026/2/13
●	Pre-Amplifier	CD	HTWE0071	PAP-0102	12004	2023/5/25	2024/5/24
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2023/5/25	2024/5/24
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

5 TEST CONDITIONS AND RESULTS

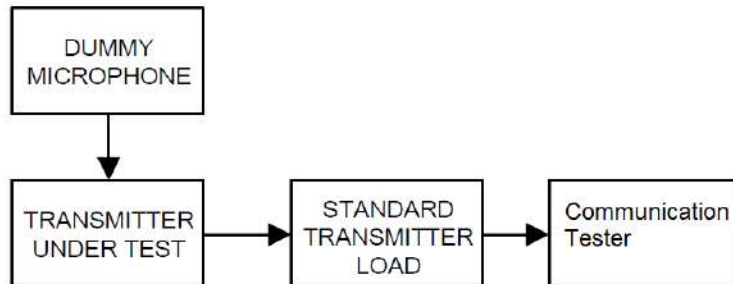
5.1 Conducted carrier output power

LIMIT

FCC Part 90.205, FCC Part 2.1046

Applicants for licenses must request and use no more power than the actual power necessary for satisfactory operation.

TEST CONFIGURATION



TEST PROCEDURE

- (1) Connect the equipment as illustrated
- (2) Correct for all losses in the RF path
- (3) Measure the transmitter output power with RMS detector
- (4) If the power output is adjustable, measurements shall be made for the highest and lowest power levels.

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

TEST DATA

Refer to the appendix report

5.2 99% occupied bandwidth & 26dB bandwidth

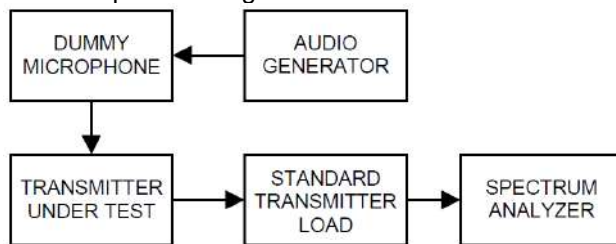
LIMIT

FCC Part 90.209, FCC Part 2.1049

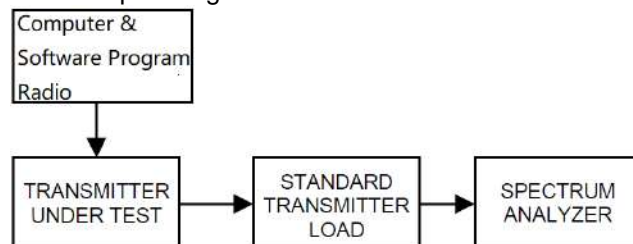
Frequency band (MHz)	Channel spacing (kHz)	Authorized bandwidth (kHz)
Below 25 ²		
25-50	20	20
72-76	20	20
150-174	¹ 7.5	^{1 3} 20/11.25/6
216-220 ⁵	6.25	20/11.25/6
220-222	5	4
406-512 ²	¹ 6.25	^{13 6} 20/11.25/6
806-809/851-854	12.5	20
809-824/854-869	25	⁶ 20
896-901/935-940	12.5	13.6
902-928 ⁴		
929-930	25	20
1427-1432 ⁵	12.5	12.5
³ 2450-2483.5 ²		
Above 2500 ²		

TEST CONFIGURATION

Test setup for Analog:



Test setup for Digital:



TEST PROCEDURE

- (1) Connect the equipment as illustrated
- (2) Spectrum set as follow:
 Centre frequency = the nominal EUT channel center frequency,
 Span shall be set wide enough to capture all modulation products including the emission skirts (typically a span of $1.5 \times \text{OBW}$ is sufficient)
 RBW = 1% to 5% of the anticipated OBW, VBW $\geq 3 \times \text{RBW}$, Sweep = auto,
 Detector function = peak, Trace = max hold
- (3) Set 99% Occupied Bandwidth and 26dB Bandwidth
- (4) Measure and record the results in the test report.

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

TEST DATA

Refer to the appendix report

5.3 Emission mask

LIMIT

FCC Part 90.210, FCC Part 2.1049

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

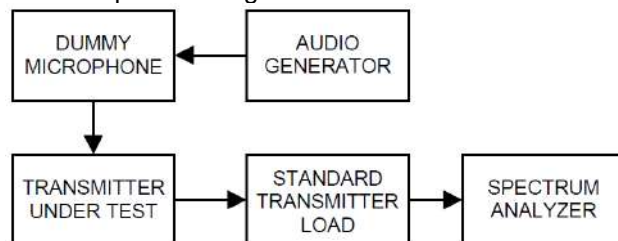
Emission Mask D — 12.5 kHz channel bandwidth equipment

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:

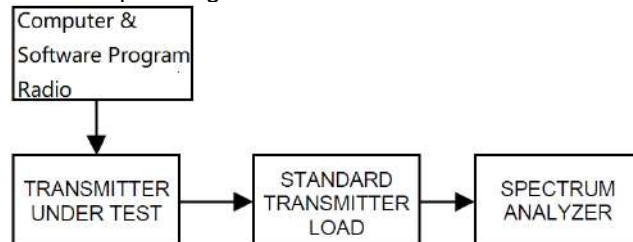
- (1) On any frequency from the centre of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : 0dB
- (2) On any frequency removed from the centre of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27(f_d - 2.88 \text{ kHz})$ dB.
- (3) On any frequency removed from the centre of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz: At least $50 + 10 \log (P)$ dB or 70 dB, whichever is the lesser attenuation.

TEST CONFIGURATION

Test setup for Analog:



Test setup for Digital:



TEST PROCEDURE

- 1) Connect the equipment as illustrated.
- 2) Spectrum set as follow:
Centre frequency = fundamental frequency, span=120kHz for 12.5kHz channel spacing,
RBW=100Hz, VBW=1000Hz, Sweep = auto,
Detector function = peak, Trace = max hold
- 3) Key the transmitter, and set the level of the unmodulated carrier to a full scale reference line. This is the 0dB reference for the measurement.
- 4) Apply Input Modulation Signal to EUT according to Section 4.2
- 5) Measure and record the results in the test report.

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

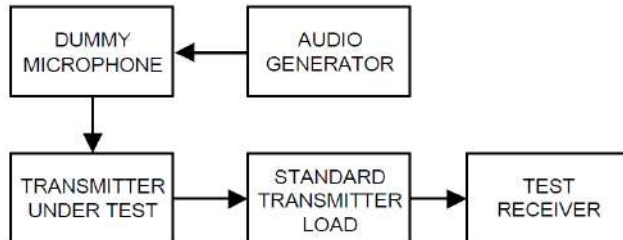
5.4 Modulation limit

LIMIT

FCC Part 2.1047(b)

2.5kHz for 12.5 KHz Channel Spacing System.

TEST CONFIGURATION



TEST PROCEDURE

- 1) Connect the equipment as illustrated.
- 2) Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- 3) Set the test receiver to measure peak positive deviation. Set the audio bandwidth for ≤ 0.25 Hz to $\geq 15,000$ Hz. Turn the de-emphasis function off.
- 4) Apply Input Modulation Signal to EUT according to Section 4.2 and vary the input level from -20 to $+20$ dB.
- 5) Measure both the instantaneous and steady-state deviation at and after the time of increasing the audio input level
- 6) Repeat step 4-5 with input frequency changing to 300Hz, 1004Hz, 1500Hz and 2500Hz in sequence.

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

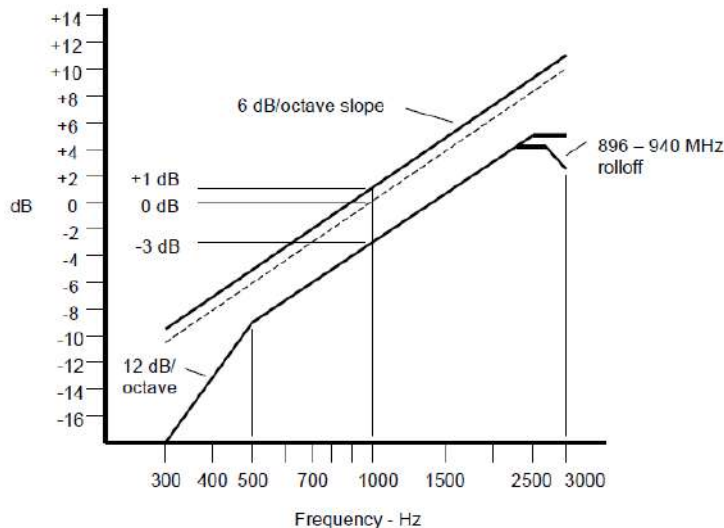
Refer to the appendix report

5.5 Audio frequency response

LIMIT

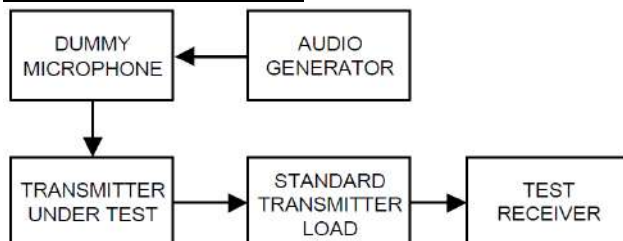
FCC Part 2.1047(a):

Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted. For equipment required to have an audio low-pass filter, a curve showing the frequency response of the filter or of all circuitry installed between the modulation limiter and the modulated stage shall be submitted.



An additional 6 dB per octave attenuation is allowed from 2500 Hz to 3000 Hz in equipment operating in the 25 MHz to 869 MHz range.

TEST CONFIGURATION



TEST PROCEDURE

- 1) Connect the equipment as illustrated.
- 2) Set the test receiver to measure peak positive deviation. Set the audio bandwidth for 50 Hz to 15,000 Hz. Turn the de-emphasis function off.
- 3) Set the DMM to measure rms voltage.
- 4) Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- 5) Apply Input Modulation Signal to EUT according to Section 4.2
- 6) Set the test receiver to measure rms deviation and record the deviation reading.
- 7) Record the DMM reading as V_{REF} .
- 8) Set the audio frequency generator to the desired test frequency between 300 Hz and 3000 Hz.
- 9) Vary the audio frequency generator output level until the deviation reading that was recorded in step 6) is obtained.
- 10) Record the DMM reading as V_{FREQ} .
- 11) Calculate the audio frequency response at the present frequency as:
audio frequency response = $20 \log_{10} (V_{FREQ}/V_{REF})$.
- 12) Repeat steps 8) through 11) for all the desired test frequencies

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

TEST DATA

Refer to the appendix report

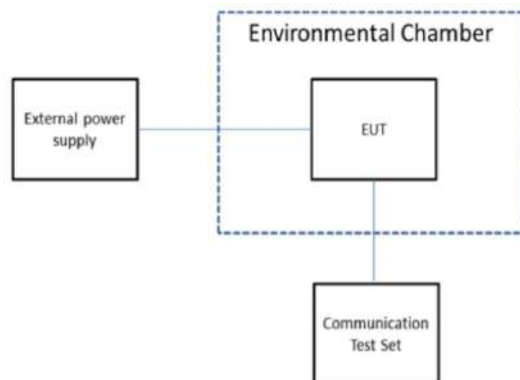
5.6 Frequency stability VS temperature

LIMIT

FCC Part 90.213, FCC Part 2.1055

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			

TEST CONFIGURATION



TEST PROCEDURE

- 1) The EUT output port was connected to communication tester.
- 2) The EUT was placed inside the temperature chamber.
- 3) Turn EUT off and set the chamber temperature to -30°C . After the temperature stabilized for approximately 30 minutes recorded the frequency as MCF_{MHz} .
- 4) Calculate the ppm frequency error by the following:

$$\text{ppm error} = (MCF_{\text{MHz}} / ACF_{\text{MHz}} - 1) * 10^6$$
 where
 MCF_{MHz} is the Measured Carrier Frequency in MHz
 ACF_{MHz} is the Assigned Carrier Frequency in MHz
- 5) Repeat step 3 measure with 10°C increased per stage until the highest temperature of $+50^{\circ}\text{C}$ reached.

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

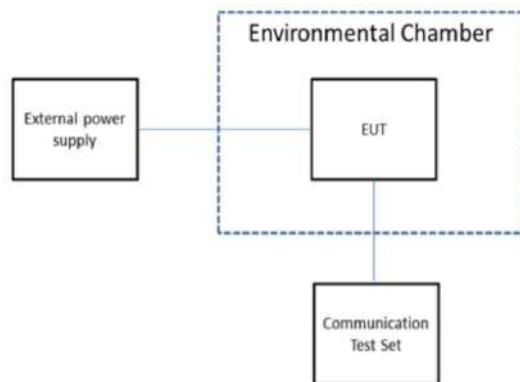
5.7 Frequency stability VS voltage

LIMIT

FCC Part 90.213, FCC Part 2.1055

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	1 4 1.0	1.5	1.5
809-824	1 4 1.5	2.5	2.5
851-854	1.0	1.5	1.5
854-869	1.5	2.5	2.5
896-901	1 4 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			

TEST CONFIGURATION



TEST PROCEDURE

- 1) The EUT output port was connected to communication tester.
- 2) The EUT was placed inside the temperature chamber at 25°C
- 3) Record the carrier frequency of the transmitter as MCF_{MHz}
- 4) Calculate the ppm frequency error by the following:

$$ppm\ error = (MCF_{MHz} / ACF_{MHz} - 1) * 10^6$$
 where
 MCF_{MHz} is the Measured Carrier Frequency in MHz
 ACF_{MHz} is the Assigned Carrier Frequency in MHz
- 5) Repeat step 3 measure with varied $\pm 15\%$ of the nominal value measured at the input to the EUT

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

5.8 Transmitter frequency behavior

LIMIT

FCC part 90.214

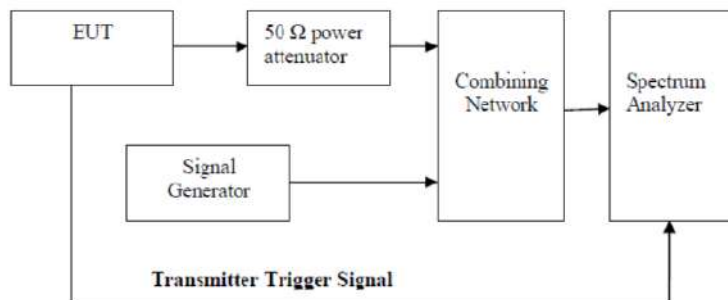
Transmitters designed to operate in the 150-174 MHz and 421-512 MHz frequency bands must maintain transient frequencies within the maximum frequency difference limits during the time intervals indicated:

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

Note:

- 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 ton.
 - 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 toff.
 - t_{off} is the instant when the 1 kHz test signal starts to rise.
- 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.
- Difference between the actual transmitter frequency and the assigned transmitter frequency.
- 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.

TEST CONFIGURATION



TEST PROCEDURE

- Connect test equipment as shown in above figure
- Verify RF attenuator power rating for EUT providing adequate protection to the combining network and measurement equipment.
- Tune spectrum analyzer center frequency to EUT frequency and span to at least 100 kHz. Set amplitude according to EUT RF power.
- Switch transmitter on and adjust settings in accordance with step c); switch transmitter to the off position.
- Set analyzer to FM mode; re-tune analyzer to EUT frequency and span according to step c), while in FM demodulation mode.
- An RF test signal of the same frequency as the EUT from the signal generator shall be modulated by a frequency of 1 kHz with a deviation equal to plus or minus the value of the channel spacing (separation). The RF signal strength shall be adjusted allowing the analyzer to demodulate the signal in FM mode.
- Adjust analyzer x axis to capture at least 100 ms of demodulated signal.
- Adjust analyzer y axis for the correct deviation amplitude.
- The analyzer display should show a continuous 1 kHz signal and the channel spacing deviation amplitude.

- j) Change analyzer settings to single sweep and external trigger. For newer analyzers, the channel bandwidth might have to be adjusted for the correct sample rate and sweep speed.
- k) Turn on EUT and adjust analyzer to display desired signal by adjusting trigger settings and considerations in step j). Turn off EUT.
- l) Repeat step k) until optimum set-up is achieved.
- m) Start measurement by turning on EUT. Observe measurements results in analyzer display, EUT_{ON} starts at the moment the 1 kHz signal is suppressed (t₂). See Figure 11 for transient frequency behavior with switch on.
- n) Record values observed in step m) as frequency difference versus time.
- o) Turn off EUT. EUT_{OFF} is considered at the start of the 1 kHz signal defined as t₃. See Figure 12 for transient frequency behavior with switch off.
- p) Record the values observed in step o) as frequency difference versus time.

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

TEST DATA

Refer to the appendix report

5.9 Transmit conducted spurious emission

LIMIT

FCC Part 90.210, FCC Part 2.1051

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:

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

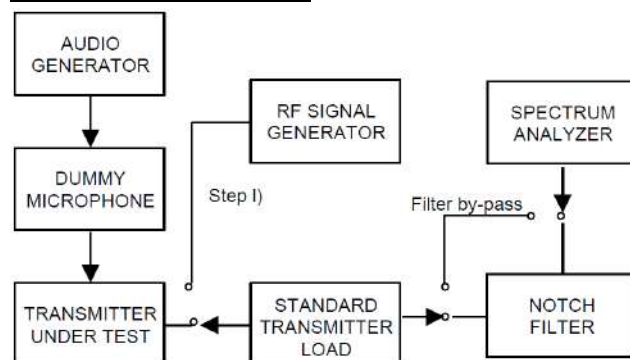
In general, the worse case attenuation requirement shown above was applied.

Calculation: Limit (dBm) = $EL - 50 - 10 \log(P)$

EL is the emission level of the Output Power expressed in dBm,

Limit (dBm) = $P(\text{dBm}) - 50 - 10 \log(P_{\text{watts}}) = -20 \text{ dBm}$

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the equipment as illustrated, with the notch filter by-passed.
2. Apply Input Modulation Signal to EUT according to Section 4.2
3. Adjust the spectrum analyzer for the following settings:
Below 1GHz: RBW=100kHz, VBW=300kHz
Above 1GHz: RBW=1MHz, VBW=3MHz
Detector=Peak, Sweep time=Auto, Trace=Max hold
4. Scan frequency range up to 10th harmonic.
5. Record the frequencies and levels of spurious emissions

TEST MODE

Refer to the section 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

5.10 Transmitter radiated spurious emission

LIMIT

FCC Part 90.210, FCC Part 2.1051

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:

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

In general, the worse case attenuation requirement shown above was applied.

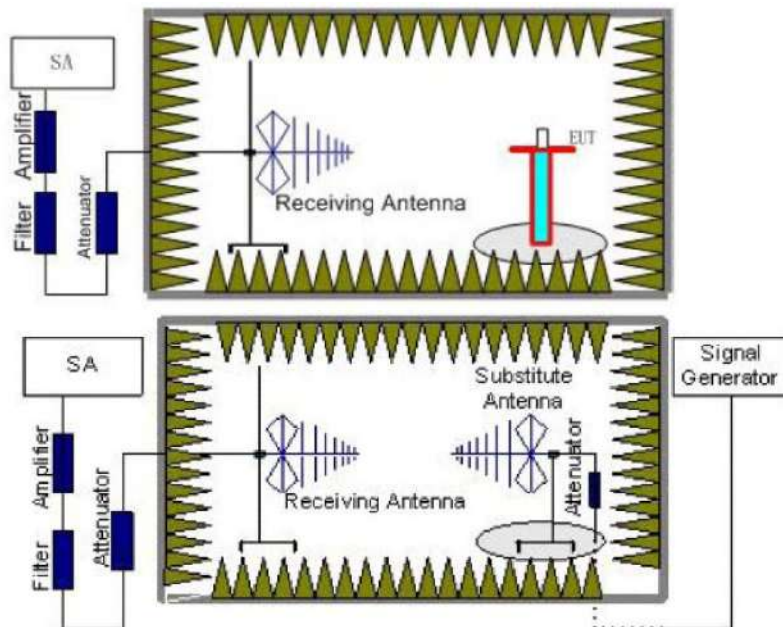
Calculation: Limit (dBm) = $EL - 50 - 10 \log(P)$

EL is the emission level of the Output Power expressed in dBm,

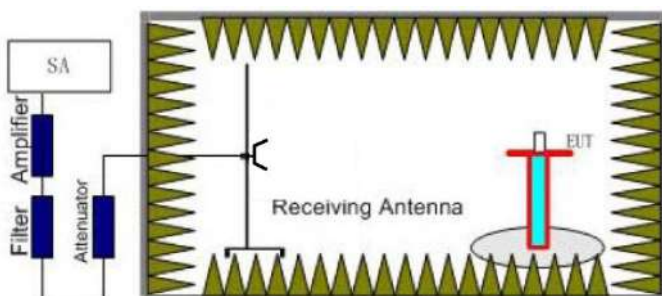
Limit (dBm) = $P(\text{dBm}) - 50 - 10 \log(P_{\text{watts}}) = -20 \text{ dBm}$

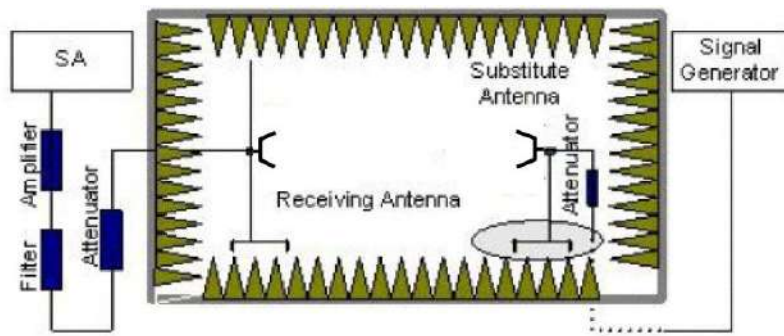
TEST CONFIGURATION

Below 1GHz:



Above 1GHz:





TEST PROCEDURE

1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
4. Receiver or Spectrum set as follow:
 Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto
 Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

$$P_e = P_s(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$
 where
 P_e = equivalent emission power in dBm
 P_s = source (signal generator) power in dBm
 NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.
13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:

$$\text{gain (dBd)} = \text{gain (dBi)} - 2.15 \text{ dB.}$$
 If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

TEST MODE

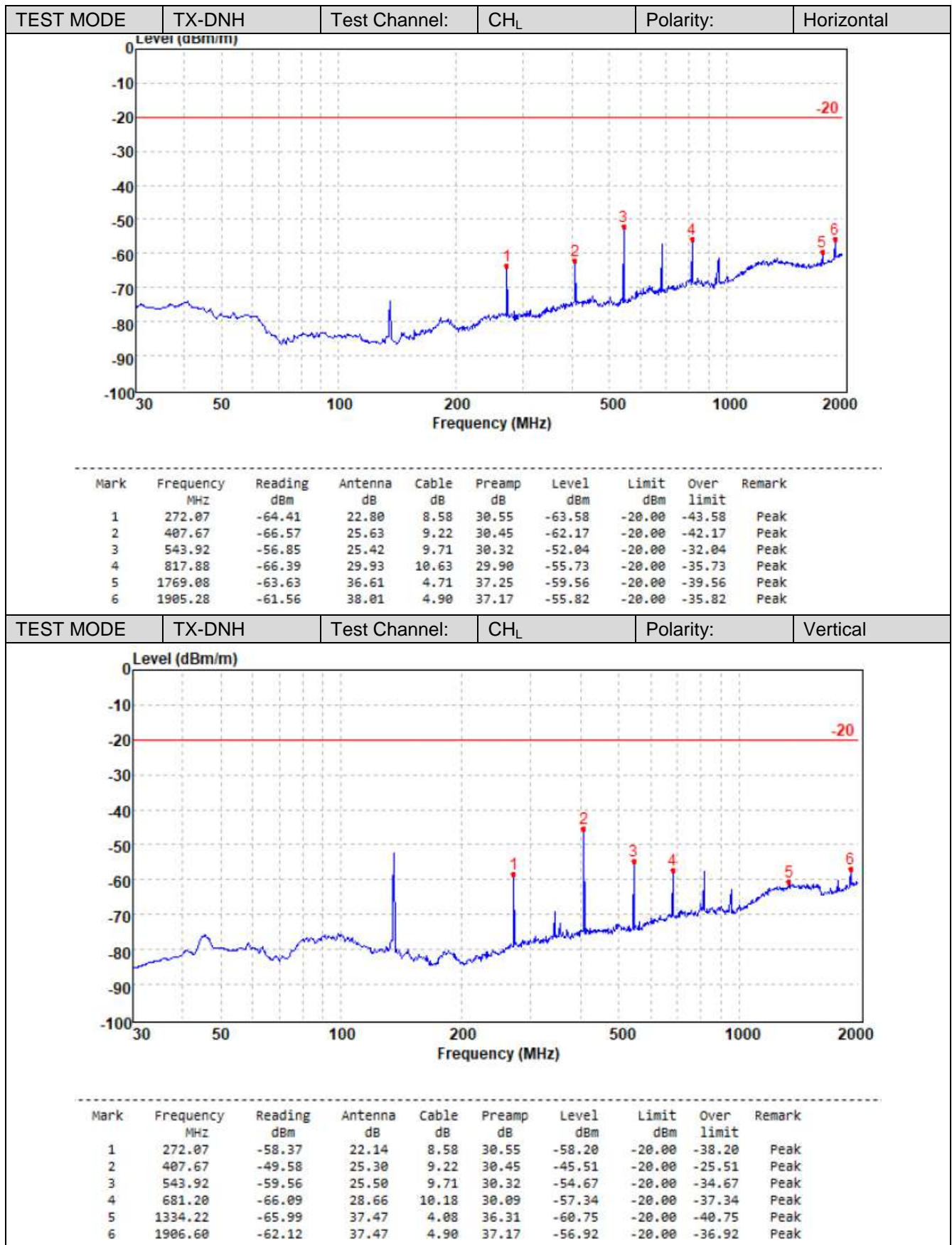
Refer to the section 4.2

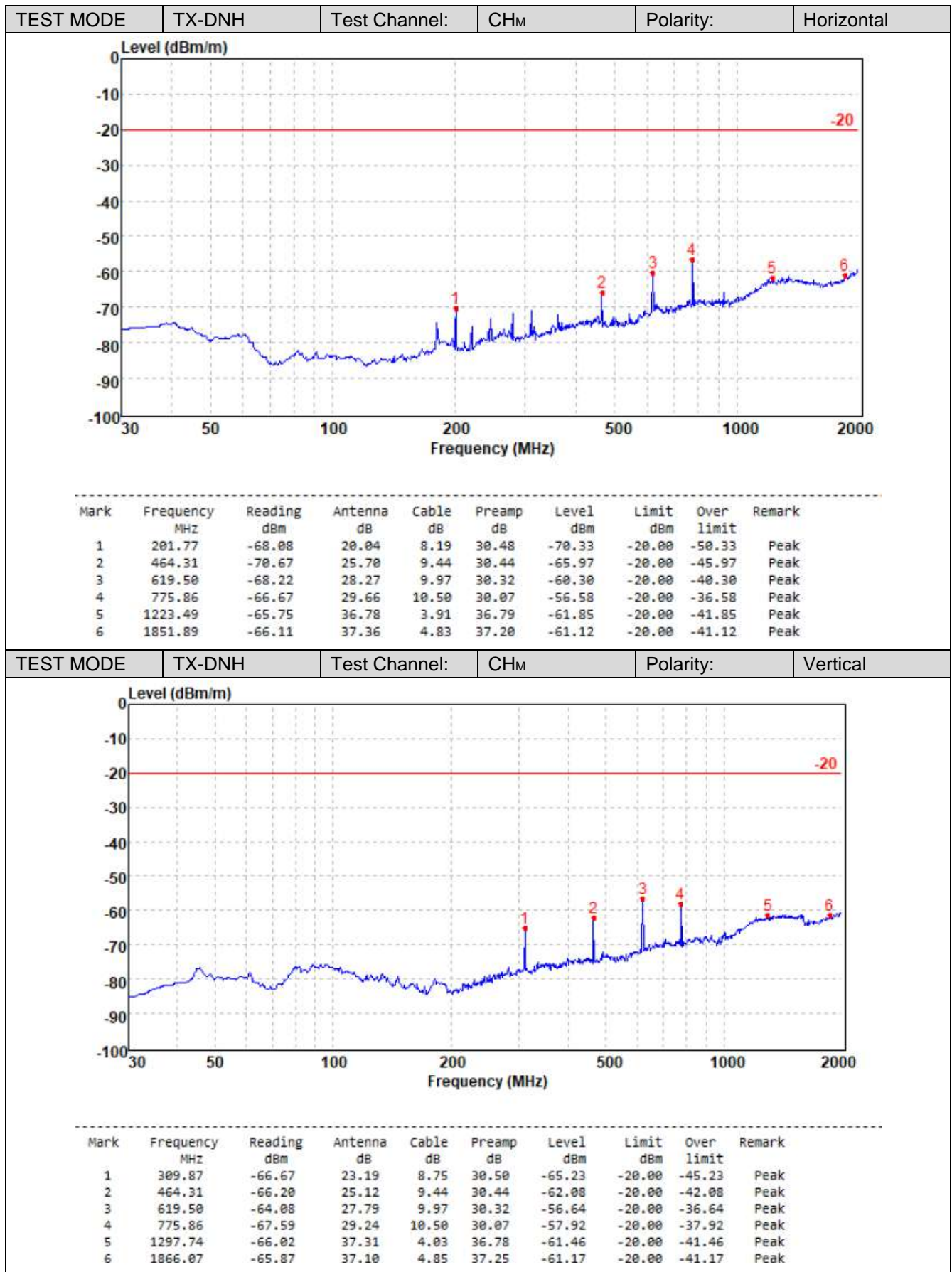
TEST RESULT

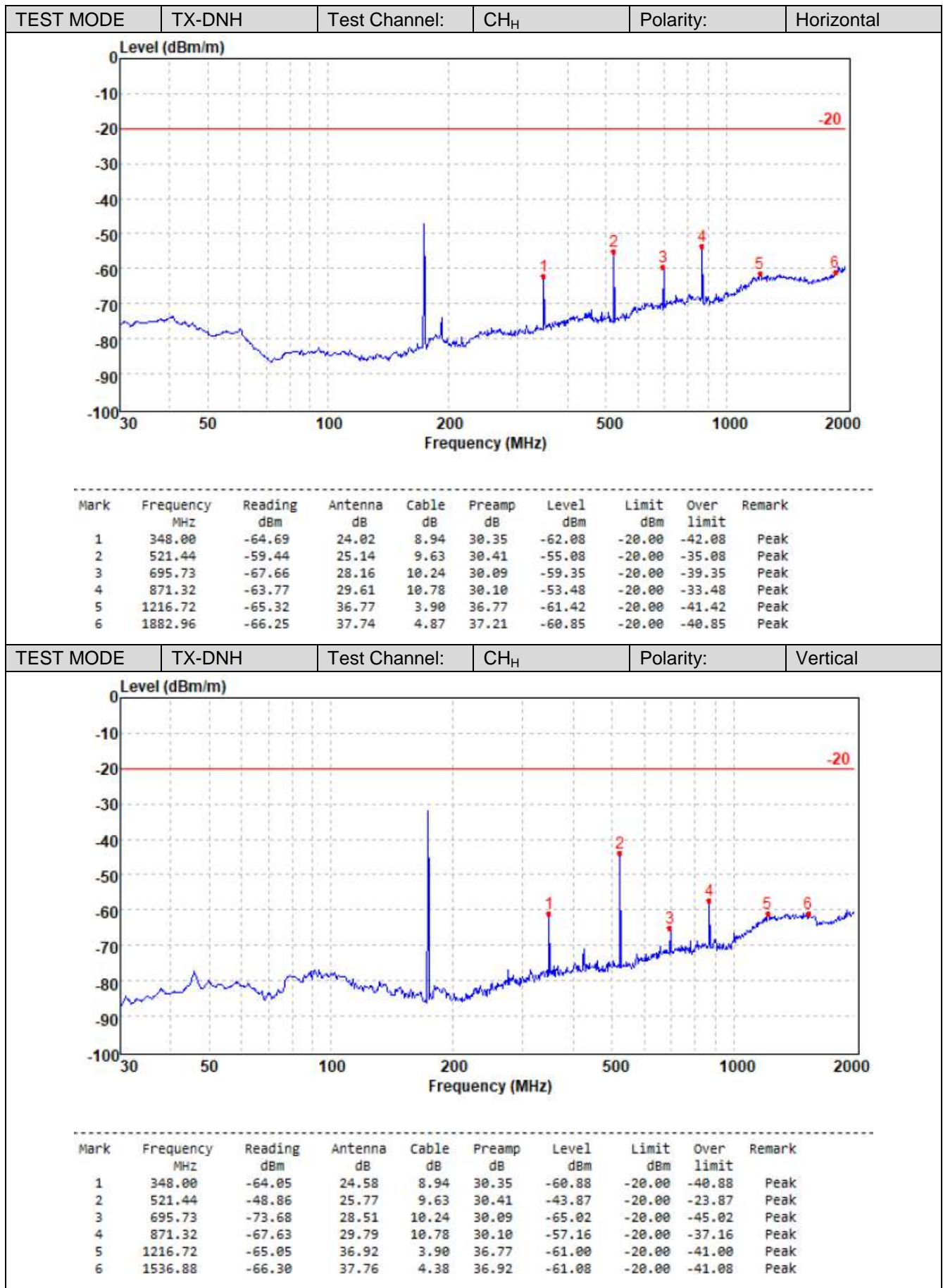
☒ **Passed** ☐ **Not Applicable**

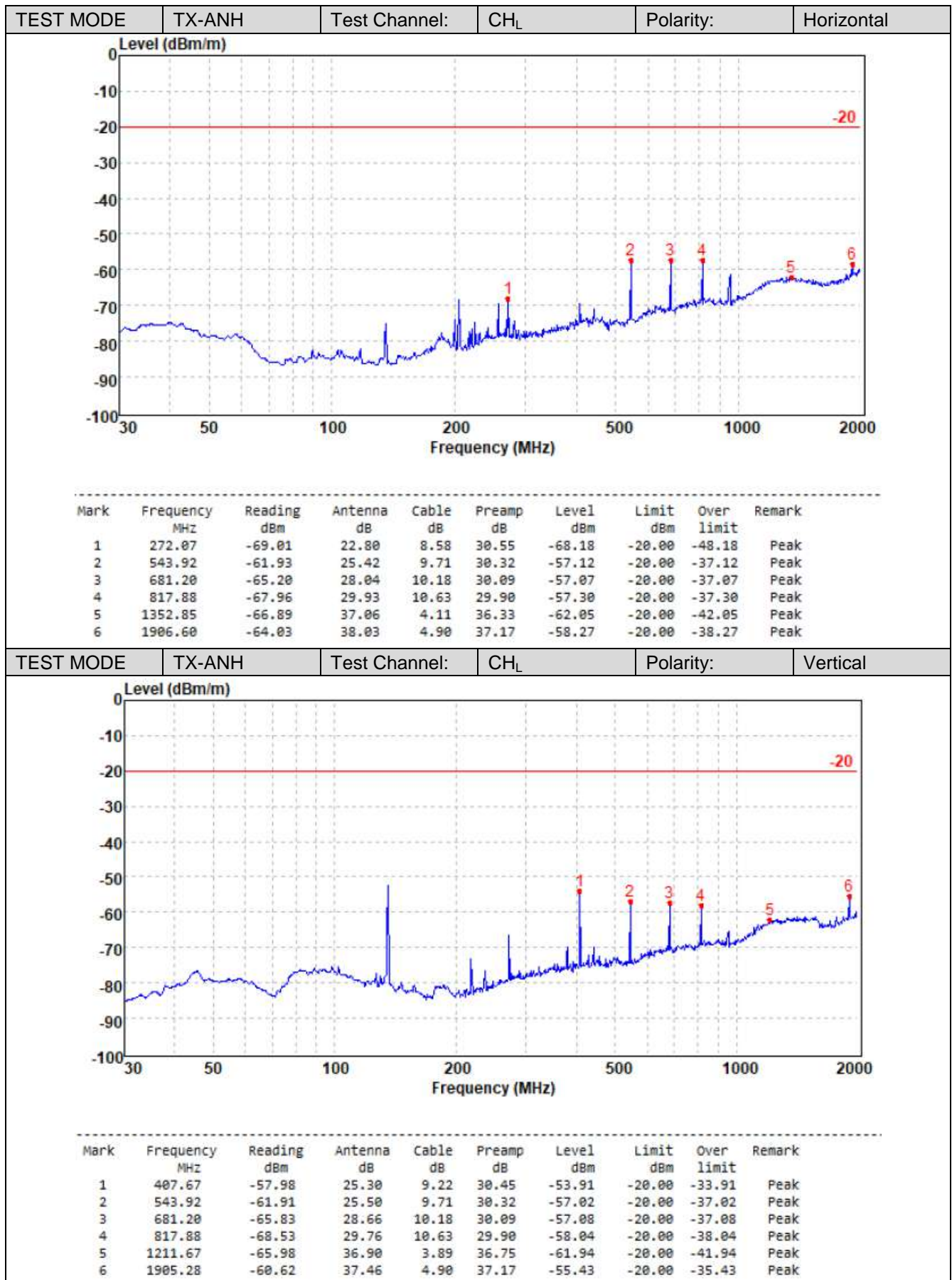
TEST DATA

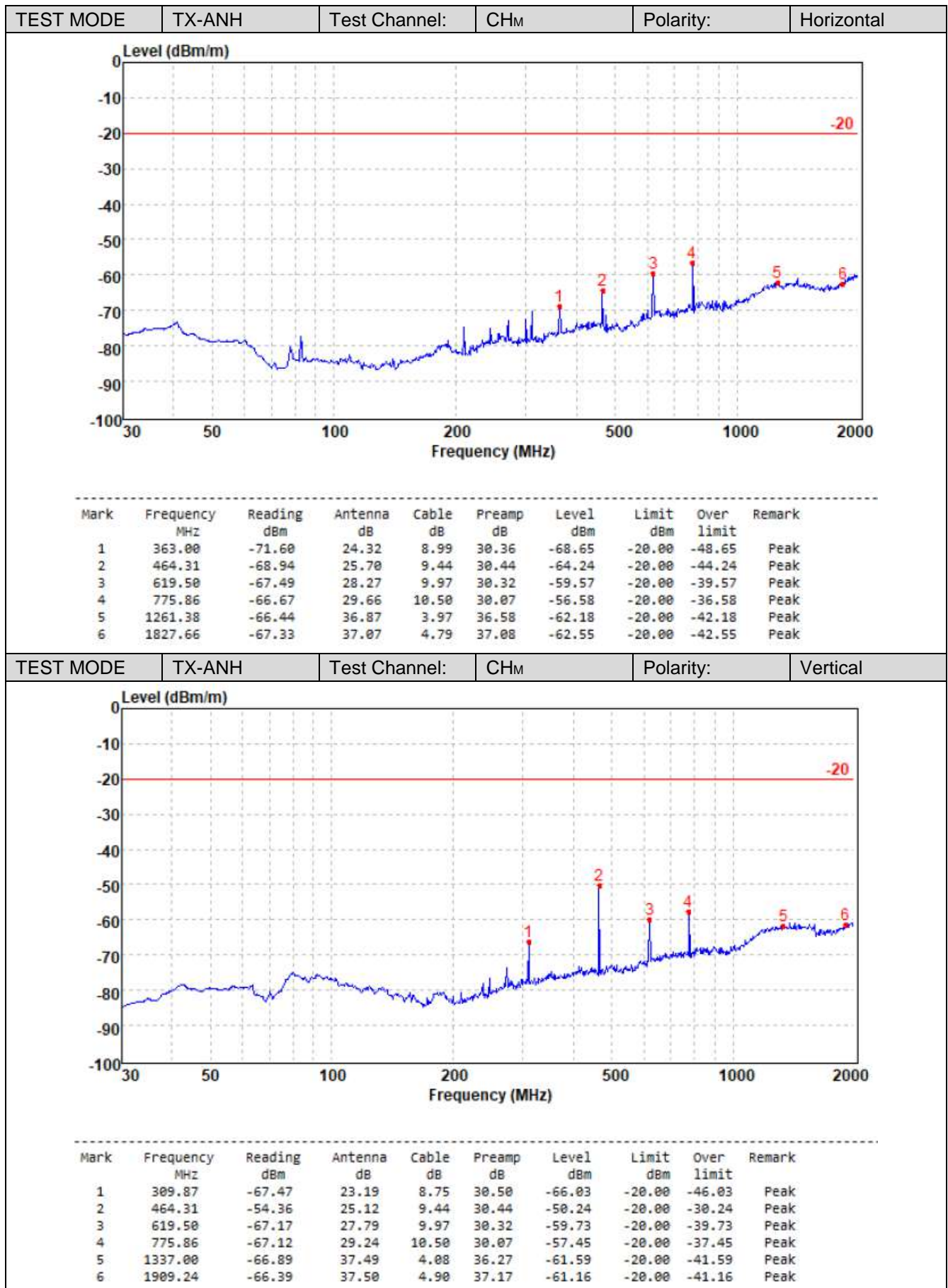
Refer to the below test data

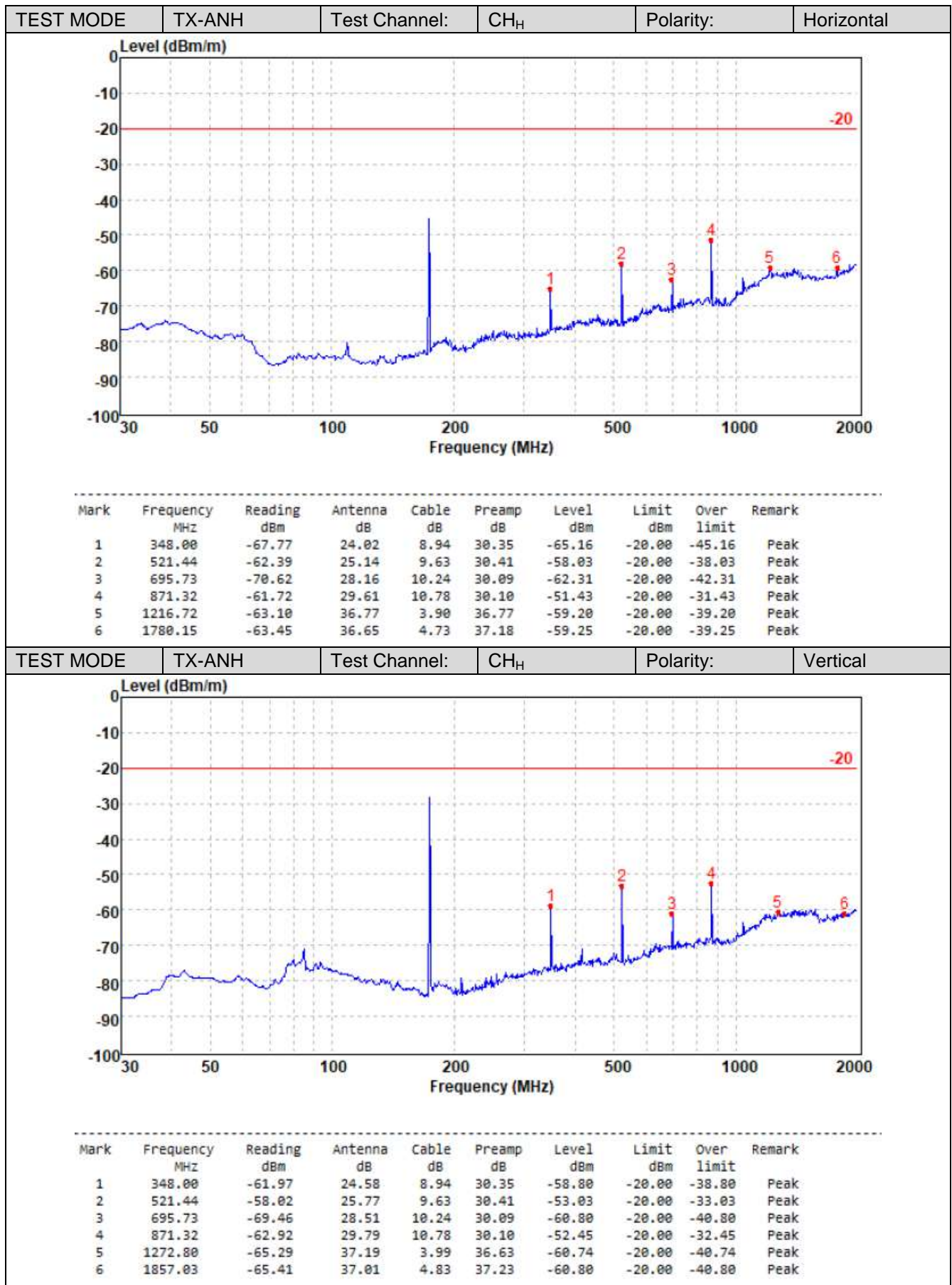




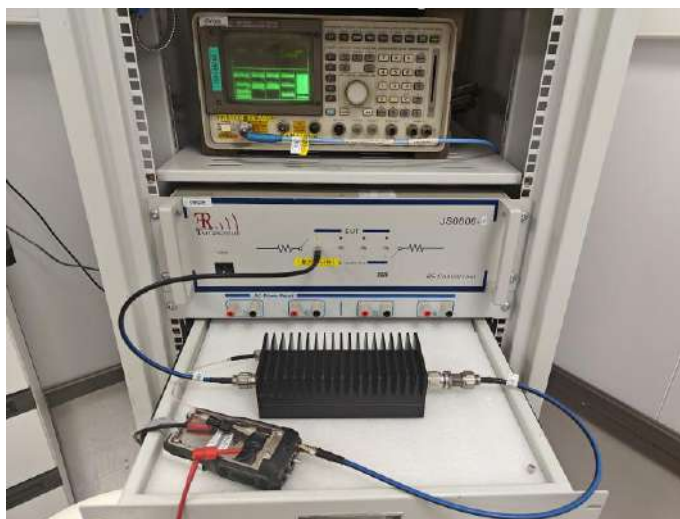








6 TEST SETUP PHOTOS



7 EXTERNAL AND INTERNAL PHOTOS

Refer to the test report No.: CHTEW23100067

8 APPENDIX REPORT

Project No.	SHT2304024504EW		
Test sample No.	YPHT23040245005	Model No.	EP8100 VHF
Start test date	2023/9/5	Finish date	2023/9/25
Temperature	24.2℃	Humidity	46%
Test Engineer	<i>Casper Chen</i>	Auditor	<i>Xiaodong Zhu</i>

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	9/25	PASS
B	Occupied Bandwidth	9/25	PASS
C	Emission Mask	9/25	PASS
D	Modulation Limit	9/25	PASS
E	Audio Frequency Response	9/25	PASS
F	Frequency Stability Test & Temperature	9/25	PASS
G	Frequency Stability Test & Voltage	9/25	PASS
H	Transmitter Frequency Behavior	9/25	PASS
I	Spurious Emission On Antenna Port	9/25	PASS

Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power (dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	36.3	4.23	4.20	0.7	±20	PASS
TX-DNH	4FSK	CH _M	36.3	4.23	4.20	0.7	±20	PASS
TX-DNH	4FSK	CH _H	36.3	4.24	4.20	1.0	±20	PASS
TX-DNL	4FSK	CH _L	30.2	1.05	1.20	-12.5	±20	PASS
TX-DNL	4FSK	CH _M	30.2	1.05	1.20	-12.5	±20	PASS
TX-DNL	4FSK	CH _H	30.1	1.02	1.20	-15.0	±20	PASS
TX-ANH	FM	CH _L	37.0	5.01	4.20	19.3	±20	PASS
TX-ANH	FM	CH _M	37.0	5.01	4.20	19.3	±20	PASS
TX-ANH	FM	CH _H	36.9	4.90	4.20	16.7	±20	PASS
TX-ANL	FM	CH _L	31.4	1.39	1.20	15.8	±20	PASS
TX-ANL	FM	CH _M	31.4	1.39	1.20	15.8	±20	PASS
TX-ANL	FM	CH _H	31.1	1.30	1.20	8.3	±20	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _L	7.690	9.571	≤11.25	PASS
TX-DNH	4FSK	CH _M	7.792	9.908	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.996	9.695	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.844	9.669	≤11.25	PASS
TX-DNL	4FSK	CH _M	7.702	9.920	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.758	9.470	≤11.25	PASS
TX-ANH	FM	CH _L	9.993	10.170	≤11.25	PASS
TX-ANH	FM	CH _M	9.993	10.160	≤11.25	PASS
TX-ANH	FM	CH _H	9.999	10.170	≤11.25	PASS
TX-ANL	FM	CH _L	9.994	10.170	≤11.25	PASS
TX-ANL	FM	CH _M	9.986	10.170	≤11.25	PASS
TX-ANL	FM	CH _H	9.999	10.170	≤11.25	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 136.100000 MHz, Ref: 41.32 dBm, Trig: Free Run, Avg/Hold: 10/10, Radio Std: None, Radio Device: BTS</p> <p>10 dB/div, 31.3, 21.3, 11.3, 1.32, 0.60, 0.20, 0.07, 0.02, 0.01</p> <p>Center 136.1 MHz, #Res BW 100 Hz, #VBW 300 Hz, Span 50 kHz, Sweep FFT</p> <p>Occupied Bandwidth: 7.690 kHz, Total Power: 43.8 dBm</p> <p>Transmit Freq Error: 17 Hz, OBW Power: 99.00 %</p> <p>x dB Bandwidth: 9.571 kHz, x dB: -26.00 dB</p> <p>Frequency: Center Freq 136.100000 MHz, CF Step 5.000 kHz, Freq Offset 0 Hz</p> <p>STATUS, DC Coupled</p>
TX-DNH	4FSK	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 155.000000 MHz, Ref: 41.36 dBm, Trig: Free Run, Avg/Hold: 10/10, Radio Std: None, Radio Device: BTS</p> <p>10 dB/div, 31.4, 21.4, 11.4, 1.36, 0.64, 0.20, 0.07, 0.02, 0.01</p> <p>Center 155 MHz, #Res BW 100 Hz, #VBW 300 Hz, Span 50 kHz, Sweep FFT</p> <p>Occupied Bandwidth: 7.792 kHz, Total Power: 44.4 dBm</p> <p>Transmit Freq Error: 29 Hz, OBW Power: 99.00 %</p> <p>x dB Bandwidth: 9.908 kHz, x dB: -26.00 dB</p> <p>Frequency: Center Freq 155.000000 MHz, CF Step 5.000 kHz, Freq Offset 0 Hz</p> <p>STATUS, DC Coupled</p>
TX-DNH	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 173.900000 MHz, Ref: 41.43 dBm, Trig: Free Run, Avg/Hold: 10/10, Radio Std: None, Radio Device: BTS</p> <p>10 dB/div, 31.4, 21.4, 11.4, 1.43, 0.67, 0.20, 0.07, 0.02, 0.01</p> <p>Center 173.9 MHz, #Res BW 100 Hz, #VBW 300 Hz, Span 50 kHz, Sweep FFT</p> <p>Occupied Bandwidth: 7.996 kHz, Total Power: 44.3 dBm</p> <p>Transmit Freq Error: -12 Hz, OBW Power: 99.00 %</p> <p>x dB Bandwidth: 9.695 kHz, x dB: -26.00 dB</p> <p>Frequency: Center Freq 173.900000 MHz, CF Step 5.000 kHz, Freq Offset 0 Hz</p> <p>STATUS, DC Coupled</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 136.100000 MHz</p> <p>Occupied Bandwidth: 7.844 kHz</p> <p>Total Power: 38.0 dBm</p> <p>Transmit Freq Error: 52 Hz</p> <p>OBW Power: 99.00 %</p>
TX-DNL	4FSK	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 155.000000 MHz</p> <p>Occupied Bandwidth: 7.702 kHz</p> <p>Total Power: 38.0 dBm</p> <p>Transmit Freq Error: 38 Hz</p> <p>OBW Power: 99.00 %</p>
TX-DNL	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 173.900000 MHz</p> <p>Occupied Bandwidth: 7.758 kHz</p> <p>Total Power: 37.7 dBm</p> <p>Transmit Freq Error: 23 Hz</p> <p>OBW Power: 99.00 %</p>

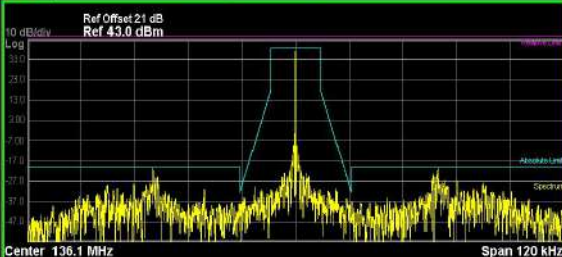
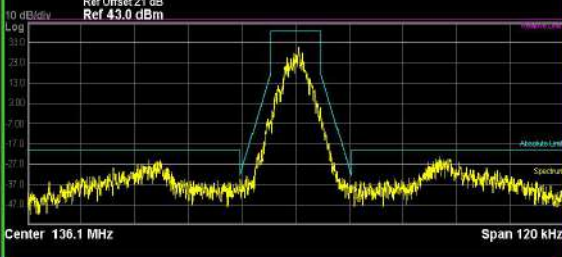
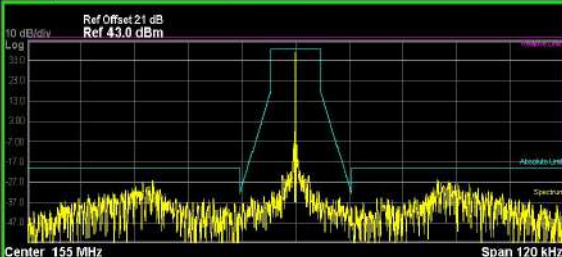
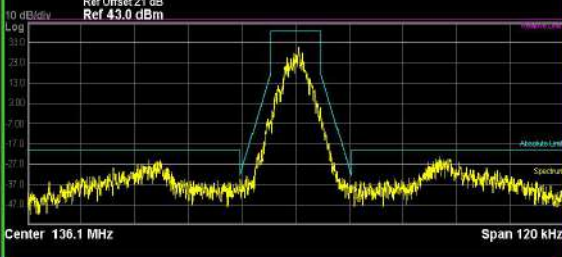
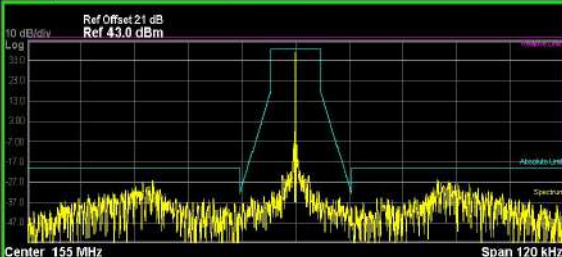
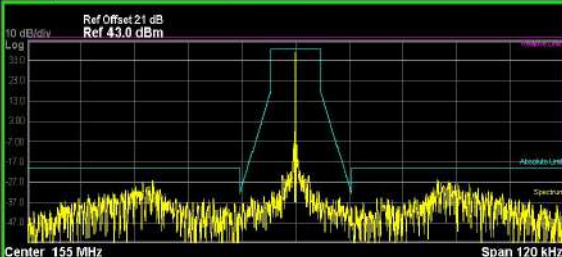
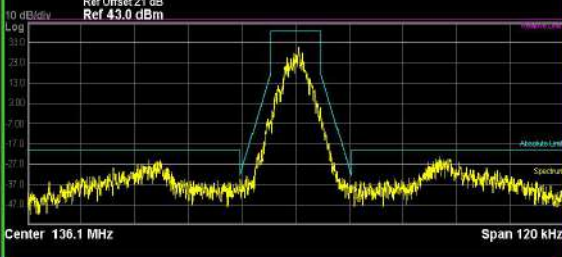
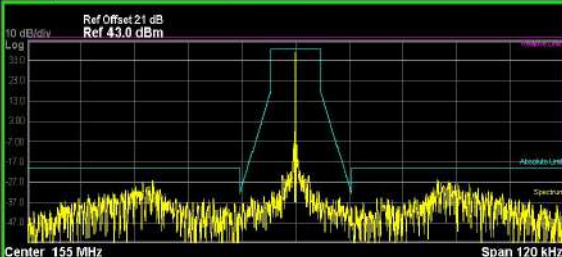
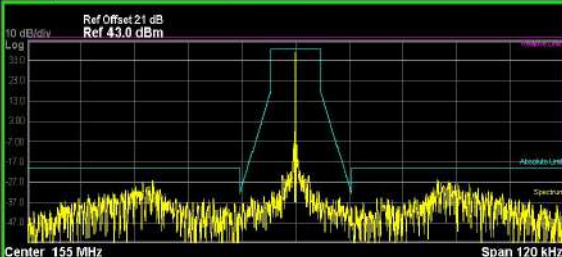
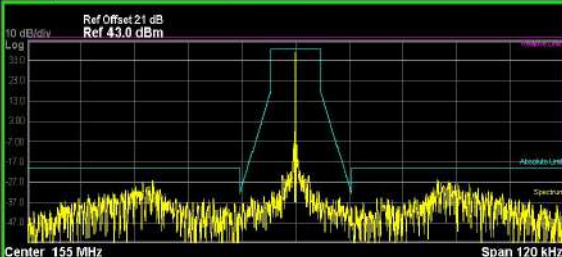
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 136.100000 MHz</p> <p>Ref 41.31 dBm</p> <p>Center 136.1 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 9.993 kHz</p> <p>Total Power 37.1 dBm</p> <p>Transmit Freq Error -13 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.17 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-ANH	FM	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 155.000000 MHz</p> <p>Ref 41.31 dBm</p> <p>Center 155 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 9.993 kHz</p> <p>Total Power 37.4 dBm</p> <p>Transmit Freq Error -20 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.16 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-ANH	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 173.900000 MHz</p> <p>Ref 41.28 dBm</p> <p>Center 173.9 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 9.999 kHz</p> <p>Total Power 37.1 dBm</p> <p>Transmit Freq Error -39 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.17 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS DC Coupled</p>


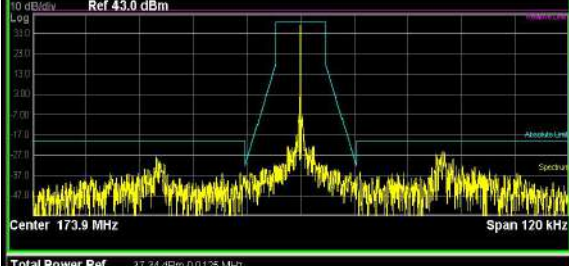
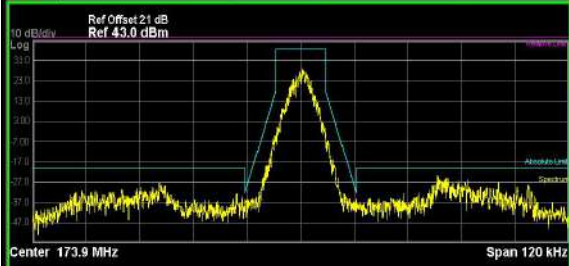
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 136.100000 MHz</p> <p>Occupied Bandwidth: 9.994 kHz</p> <p>Total Power: 31.1 dBm</p> <p>Transmit Freq Error: -15 Hz</p> <p>OBW Power: 99.00 %</p>
TX-ANL	FM	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 155.000000 MHz</p> <p>Occupied Bandwidth: 9.986 kHz</p> <p>Total Power: 31.4 dBm</p> <p>Transmit Freq Error: -34 Hz</p> <p>OBW Power: 99.00 %</p>
TX-ANL	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 173.900000 MHz</p> <p>Occupied Bandwidth: 9.999 kHz</p> <p>Total Power: 30.8 dBm</p> <p>Transmit Freq Error: -45 Hz</p> <p>OBW Power: 99.00 %</p>

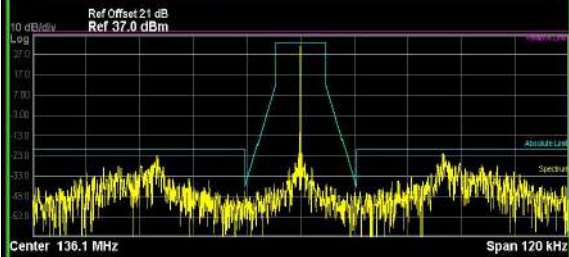
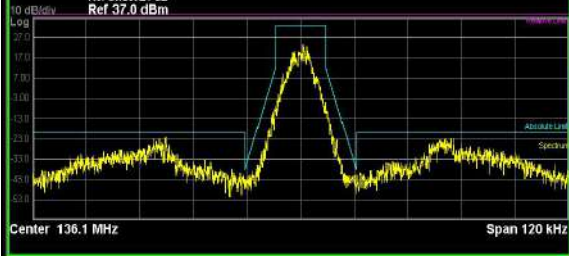
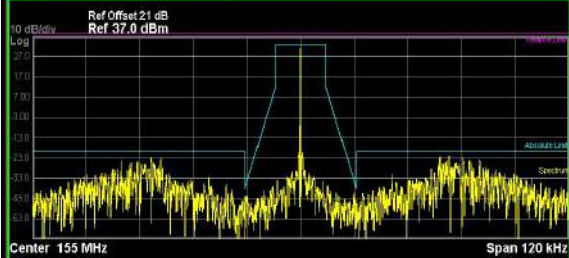
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-DNH	4FSK	CH _L	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 136.100000 MHz</div><div>Center Freq: 136.100000 MHz</div><div>Radio Std: None</div></div><div><div>PASS</div><div>If Gain: Low</div><div>#Attenu: 40 dB</div></div><div><div>Ref Offset 21 dB</div><div>Ref 43.0 dBm</div></div><div></div><div><div>Center 136.1 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref 37.14 dBm/0.0125 MHz</div><table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>37.01</td><td>(-1.76)</td><td>0.0</td><td>37.01</td><td>(-1.76)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.47</td><td>(7.26)</td><td>-12.50 k</td><td>-38.80</td><td>(7.95)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-20.63</td><td>(-0.63)</td><td>-31.85 k</td><td>-18.85</td><td>(-0.56)</td><td>31.80 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table></div><div><div>File <MASK.D.state> recalled</div><div>STATUS</div></div></div><div><div>Frequency</div><div>Center Freq 136.100000 MHz</div><div>CF Step 12.000 kHz</div><div>Auto</div><div>Freq Offset 0 Hz</div></div></div></div> <tr><td>TX-DNH</td><td>4FSK</td><td>CH_L</td><td><div><div><div><div>Agilent Spectrum Analyzer - 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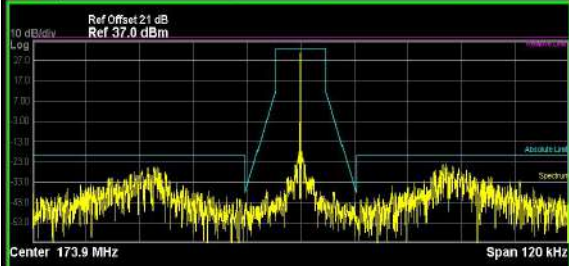
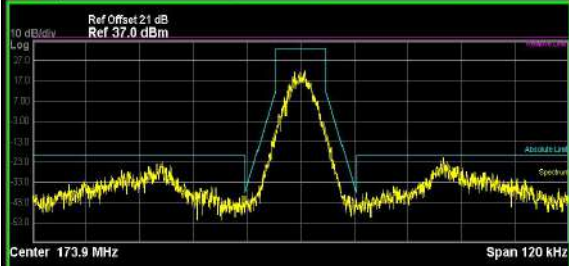
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
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TX-DNH	4FSK	CH _H	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 173.900000 MHz</div><div>Center Freq: 173.900000 MHz</div><div>Trig: Free Run</div><div>Avg: 100.00% of 10</div><div>Radio Std: None</div><div>Radio Device: BTS</div></div><div><div>PASS</div><div>If Gain: Low</div><div>#Attenu: 40 dB</div></div><div><div>Ref Offset 21 dB</div><div>Ref 43.0 dBm</div></div><div><div>Center 173.9 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>40.59 dBm/0.0125 MHz</div><table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>27.52</td><td>(-11.39)</td><td>-200.0</td><td>29.37</td><td>(-9.55)</td><td>500.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.89</td><td>(4.09)</td><td>-12.40 k</td><td>-35.06</td><td>(-2.54)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-27.26</td><td>(-7.26)</td><td>-31.50 k</td><td>-23.87</td><td>(-3.87)</td><td>30.60 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table></div></div></div><div><div>Frequency</div><div>Center Freq</div><div>173.900000 MHz</div><div>CF Step</div><div>12.000 kHz</div><div>Man</div><div>Freq Offset</div><div>0 Hz</div></div></div>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.52	(-11.39)	-200.0	29.37	(-9.55)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.89	(4.09)	-12.40 k	-35.06	(-2.54)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-27.26	(-7.26)	-31.50 k	-23.87	(-3.87)	30.60 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _L	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 136.100000 MHz</div><div>Center Freq: 136.100000 MHz</div><div>Trig: Free Run</div><div>#Atten: 40 dB</div></div><div><div>PASS</div><div>If Gain: Low</div></div><div><div>Ref Offset 21 dB</div><div>Ref 37.0 dBm</div></div><div><div>Radio Stk: None</div><div>Radio Device: BTS</div></div></div><div><div>Center 136.1 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref 31.04 dBm/0.0125 MHz</div><table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.93</td><td>(-2.26)</td><td>0.0</td><td>-30.93</td><td>(-2.26)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.25</td><td>(2.01)</td><td>-12.50 k</td><td>-43.39</td><td>(5.14)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-22.74</td><td>(2.74)</td><td>-31.90 k</td><td>-21.84</td><td>(-1.84)</td><td>31.85 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table></div><div>File <MASK.D.state> recalled</div><div>STATUS</div></div><div><div>Frequency</div><div>Center Freq 136.100000 MHz</div><div>CF Step 12.000 kHz</div><div>Auto</div><div>Freq Offset 0 Hz</div></div></div>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.93	(-2.26)	0.0	-30.93	(-2.26)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.25	(2.01)	-12.50 k	-43.39	(5.14)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-22.74	(2.74)	-31.90 k	-21.84	(-1.84)	31.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _L	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 136.100000 MHz</div><div>Center Freq: 136.100000 MHz</div><div>Trig: Free Run</div><div>Avg: 100.00% of 10</div><div>#Atten: 40 dB</div></div><div><div>PASS</div><div>If Gain: Low</div></div><div><div>Ref Offset 21 dB</div><div>Ref 37.0 dBm</div></div><div><div>Radio Stk: None</div><div>Radio Device: BTS</div></div></div><div><div>Center 136.1 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref 34.47 dBm/0.0125 MHz</div><table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>20.42</td><td>(-12.77)</td><td>-1.400 k</td><td>23.73</td><td>(-9.46)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.94</td><td>(6.52)</td><td>-12.25 k</td><td>-40.75</td><td>(-3.96)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-22.31</td><td>(-2.31)</td><td>-30.10 k</td><td>-22.81</td><td>(-2.81)</td><td>34.25 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table></div><div>File <Temp.png> saved</div><div>STATUS</div></div><div><div>Frequency</div><div>Center Freq 136.100000 MHz</div><div>CF Step 12.000 kHz</div><div>Auto</div><div>Freq Offset 0 Hz</div></div></div>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	20.42	(-12.77)	-1.400 k	23.73	(-9.46)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.94	(6.52)	-12.25 k	-40.75	(-3.96)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-22.31	(-2.31)	-30.10 k	-22.81	(-2.81)	34.25 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

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TX-DNL	4FSK	CH _H	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 173.900000 MHz</div><div>Center Freq: 173.900000 MHz</div><div>Trig: Free Run</div><div>Avg: 100.00% of 10</div><div>Radio Std: None</div><div>Radio Device: BTS</div></div><div><div>PASS</div><div>If Gain: Low</div><div>#Atten: 40 dB</div></div><div><div>Ref Offset 21 dB</div><div>Ref 37.0 dBm</div></div><div></div><div><div>Center 173.9 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>30.94 dBm/0.0125 MHz</div></div><div><table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.76</td><td>(-2.30)</td><td>-50.00</td><td>30.73</td><td>(-2.33)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.90</td><td>(6.98)</td><td>-12.30 k</td><td>-43.17</td><td>(6.61)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-25.55</td><td>(-5.55)</td><td>-32.75 k</td><td>-24.07</td><td>(-4.07)</td><td>32.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table></div></div><div><div>File <MASK.D.state> recalled</div><div>STATUS</div></div></div><div><div>Frequency</div><div>Center Freq</div><div>173.900000 MHz</div><div>CF Step</div><div>12.000 kHz</div><div>Auto</div><div>Man</div><div>Freq Offset</div><div>0 Hz</div></div></div>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.76	(-2.30)	-50.00	30.73	(-2.33)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.90	(6.98)	-12.30 k	-43.17	(6.61)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-25.55	(-5.55)	-32.75 k	-24.07	(-4.07)	32.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _L	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 136.100000 MHz</div><div>Center Freq: 136.100000 MHz</div><div>Trig: Free Run</div><div>#Atten: 40 dB</div></div><div><div>PASS</div><div>If Gain: Low</div></div><div><div>Ref Offset 21 dB</div><div>Ref 43.0 dBm</div></div><div><div>Radio Std: None</div><div>Radio Device: BTS</div></div></div><div><div>Frequency</div><div>Center Freq 136.100000 MHz</div><div>CF Step 12.000 kHz</div><div>Man</div><div>Freq Offset 0 Hz</div></div><div><div>10 dB/div</div><div>Log</div><div>31.0</div><div>28.0</div><div>25.0</div><div>22.0</div><div>19.0</div><div>16.0</div><div>13.0</div><div>10.0</div><div>7.0</div><div>4.0</div><div>1.0</div><div>-2.0</div><div>-5.0</div><div>-8.0</div><div>-11.0</div><div>-14.0</div><div>-17.0</div><div>-20.0</div><div>-23.0</div><div>-26.0</div><div>-29.0</div><div>-32.0</div><div>-35.0</div><div>-38.0</div><div>-41.0</div><div>-44.0</div><div>-47.0</div><div>-50.0</div></div><div><div>Spectrum</div><div>Absolute Limit</div></div><div>Center 136.1 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref 37.21 dBm/0.0125 MHz</div><table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>37.06</td><td>(-1.73)</td><td>0.0</td><td>37.06</td><td>(-1.73)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.23</td><td>(5.15)</td><td>-12.15 k</td><td>-35.94</td><td>(6.22)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-27.48</td><td>(7.48)</td><td>-33.25 k</td><td>-28.06</td><td>(8.06)</td><td>33.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table></div><div><div>File <MASK.D.state> recalled</div><div>STATUS</div></div></div>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.06	(-1.73)	0.0	37.06	(-1.73)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.23	(5.15)	-12.15 k	-35.94	(6.22)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-27.48	(7.48)	-33.25 k	-28.06	(8.06)	33.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _L	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 136.100000 MHz</div><div>Center Freq: 136.100000 MHz</div><div>Trig: Free Run</div><div>#Atten: 40 dB</div></div><div><div>PASS</div><div>If Gain: Low</div></div><div><div>Ref Offset 21 dB</div><div>Ref 43.0 dBm</div></div><div><div>Radio Std: None</div><div>Radio Device: BTS</div></div></div><div><div>Frequency</div><div>Center Freq 136.100000 MHz</div><div>CF Step 12.000 kHz</div><div>Man</div><div>Freq Offset 0 Hz</div></div><div><div>10 dB/div</div><div>Log</div><div>31.0</div><div>28.0</div><div>25.0</div><div>22.0</div><div>19.0</div><div>16.0</div><div>13.0</div><div>10.0</div><div>7.0</div><div>4.0</div><div>1.0</div><div>-2.0</div><div>-5.0</div><div>-8.0</div><div>-11.0</div><div>-14.0</div><div>-17.0</div><div>-20.0</div><div>-23.0</div><div>-26.0</div><div>-29.0</div><div>-32.0</div><div>-35.0</div><div>-38.0</div><div>-41.0</div><div>-44.0</div><div>-47.0</div><div>-50.0</div></div><div><div>Spectrum</div><div>Absolute Limit</div></div><div>Center 136.1 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref 37.30 dBm/0.0125 MHz</div><table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.23</td><td>(-3.59)</td><td>0.0</td><td>35.23</td><td>(-3.59)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-31.17</td><td>(-0.78)</td><td>-12.50 k</td><td>-33.89</td><td>(-1.26)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-24.51</td><td>(-4.51)</td><td>-31.45 k</td><td>-22.99</td><td>(-2.99)</td><td>31.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table></div><div><div>File <Temp.png> saved</div><div>STATUS</div></div></div>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.23	(-3.59)	0.0	35.23	(-3.59)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-31.17	(-0.78)	-12.50 k	-33.89	(-1.26)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-24.51	(-4.51)	-31.45 k	-22.99	(-2.99)	31.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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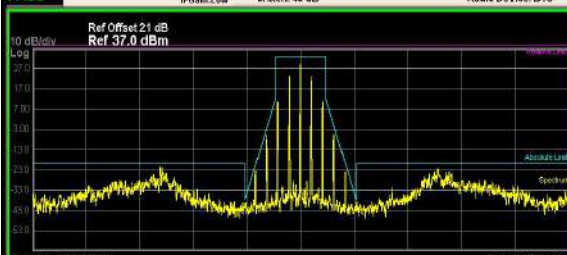
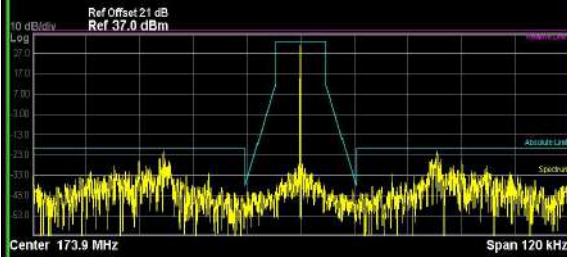
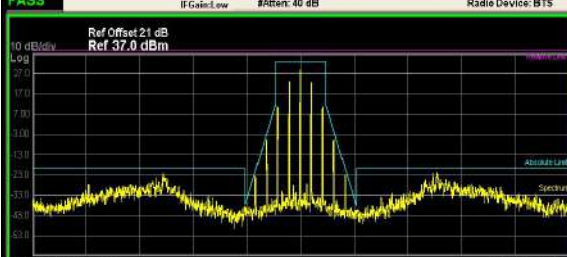
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _M	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 155.000000 MHz</div><div>Center Freq: 155.000000 MHz</div><div>Trig: Free Run</div><div>Avg: 100.00% of 10</div><div>Radio Std: None</div><div>Radio Device: BTS</div></div><div><div>PASS</div><div>If Gain: Low</div><div>#Attenu: 40 dB</div></div><div><div>Ref Offset 21 dB</div><div>Ref 43.0 dBm</div></div><div><div>Center 155 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>-37.61 dBm/0.0125 MHz</div></div><div><table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.24</td><td>(-3.57)</td><td>0.0</td><td>35.24</td><td>(-3.57)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-32.62</td><td>(-0.88)</td><td>-12.50 k</td><td>-34.44</td><td>(2.18)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-25.50</td><td>(-5.50)</td><td>-31.00 k</td><td>-23.61</td><td>(-3.61)</td><td>31.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table></div><div>File <Temp.png> saved</div></div><div><div>Frequency</div><div>Center Freq</div><div>155.000000 MHz</div><div>CF Step</div><div>12.000 kHz</div><div>Man</div><div>Freq Offset</div><div>0 Hz</div></div></div></div>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.24	(-3.57)	0.0	35.24	(-3.57)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-32.62	(-0.88)	-12.50 k	-34.44	(2.18)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-25.50	(-5.50)	-31.00 k	-23.61	(-3.61)	31.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-ANH	FM	CH _H	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 173.900000 MHz</div><div>Center Freq: 173.900000 MHz</div><div>Trig: Free Run</div><div>Avg: 100.00% of 10</div><div>Radio Std: None</div><div>Radio Device: BTS</div></div><div><div>PASS</div><div>If Gain: Low</div><div>#Attenu: 40 dB</div></div><div><div>Ref Offset 21 dB</div><div>Ref 43.0 dBm</div></div><div><div>Center 173.9 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>-37.75 dBm/0.0125 MHz</div></div><div><table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>37.14</td><td>(-1.69)</td><td>-50.00</td><td>36.96</td><td>(-1.67)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.36</td><td>(-3.57)</td><td>-12.25 k</td><td>-34.74</td><td>(-4.68)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-25.31</td><td>(-5.31)</td><td>-30.85 k</td><td>-21.60</td><td>(-1.60)</td><td>30.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table></div><div>File <MASK D.state> recalled</div></div><div><div>Frequency</div><div>Center Freq</div><div>173.900000 MHz</div><div>CF Step</div><div>12.000 kHz</div><div>Man</div><div>Freq Offset</div><div>0 Hz</div></div></div></div>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.14	(-1.69)	-50.00	36.96	(-1.67)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.36	(-3.57)	-12.25 k	-34.74	(-4.68)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-25.31	(-5.31)	-30.85 k	-21.60	(-1.60)	30.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _H	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 173.900000 MHz</div><div>Center Freq: 173.900000 MHz</div><div>Trig: Free Run</div><div>Avg: 100.00% of 10</div><div>Radio Std: None</div><div>Radio Device: BTS</div></div><div><div>PASS</div><div>If Gain: Low</div><div>#Attenu: 40 dB</div></div><div><div>Ref Offset 21 dB</div><div>Ref 43.0 dBm</div></div><div><div>Center 173.9 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>-37.56 dBm/0.0125 MHz</div></div><div><table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.23</td><td>(-3.60)</td><td>-50.00</td><td>35.04</td><td>(-3.60)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>0.894</td><td>(2.49)</td><td>-7.550 k</td><td>-32.78</td><td>(-0.17)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-24.79</td><td>(-4.79)</td><td>-30.70 k</td><td>-22.47</td><td>(-2.47)</td><td>30.45 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table></div><div>File <Temp.png> saved</div></div><div><div>Frequency</div><div>Center Freq</div><div>173.900000 MHz</div><div>CF Step</div><div>12.000 kHz</div><div>Man</div><div>Freq Offset</div><div>0 Hz</div></div></div></div>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.23	(-3.60)	-50.00	35.04	(-3.60)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	0.894	(2.49)	-7.550 k	-32.78	(-0.17)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-24.79	(-4.79)	-30.70 k	-22.47	(-2.47)	30.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _L	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 136.100000 MHz</div><div>Center Freq: 136.100000 MHz</div><div>Trig: Free Run</div><div>#Attenu: 40 dB</div><div>Radio Stk: None</div><div>Radio Device: BTS</div></div><div><div>PASS</div><div>If Gain: Low</div></div><div><div>Ref Offset 21 dB</div><div>Ref 37.0 dBm</div></div><div><div>10 dB/div</div><div>Log</div><div>27.0</div><div>7.0</div><div>3.0</div><div>13.0</div><div>23.0</div><div>33.0</div><div>43.0</div><div>53.0</div></div><div><div>Center 136.1 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>31.28 dBm/0.0125 MHz</div></div><div><table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.09</td><td>(-2.20)</td><td>0.0</td><td>31.09</td><td>(-2.20)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.01</td><td>(-9.32)</td><td>-12.50 k</td><td>-44.49</td><td>(-9.25)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-22.67</td><td>(-2.67)</td><td>-32.10 k</td><td>-21.98</td><td>(-1.98)</td><td>32.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table></div><div><div>File <MASK.D.state> recalled</div><div>STATUS</div></div></div></div><div><div>Frequency</div><div>Center Freq 136.100000 MHz</div><div>CF Step 12.000 kHz Auto Man</div><div>Freq Offset 0 Hz</div></div></div>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.09	(-2.20)	0.0	31.09	(-2.20)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.01	(-9.32)	-12.50 k	-44.49	(-9.25)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-22.67	(-2.67)	-32.10 k	-21.98	(-1.98)	32.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-ANL	FM	CH _M	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 155.000000 MHz</div><div>Center Freq: 155.000000 MHz</div><div>Trig: Free Run</div><div>#Attenu: 40 dB</div><div>Radio Stk: None</div><div>Radio Device: BTS</div></div><div><div>PASS</div><div>If Gain: Low</div></div><div><div>Ref Offset 21 dB</div><div>Ref 37.0 dBm</div></div><div><div>10 dB/div</div><div>Log</div><div>27.0</div><div>7.0</div><div>3.0</div><div>13.0</div><div>23.0</div><div>33.0</div><div>43.0</div><div>53.0</div></div><div><div>Center 155 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>31.67 dBm/0.0125 MHz</div></div><div><table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.05</td><td>(-2.24)</td><td>-50.00</td><td>31.04</td><td>(-2.25)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.19</td><td>(-7.04)</td><td>-12.50 k</td><td>-41.19</td><td>(-8.13)</td><td>11.80 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-23.11</td><td>(-3.11)</td><td>-30.50 k</td><td>-22.20</td><td>(-2.20)</td><td>30.40 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table></div><div><div>File <MASK.D.state> recalled</div><div>STATUS</div></div></div></div><div><div>Frequency</div><div>Center Freq 155.000000 MHz</div><div>CF Step 12.000 kHz Auto Man</div><div>Freq Offset 0 Hz</div></div></div>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.05	(-2.24)	-50.00	31.04	(-2.25)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.19	(-7.04)	-12.50 k	-41.19	(-8.13)	11.80 k	12.50 kHz	60.00 kHz	100.0 Hz	-23.11	(-3.11)	-30.50 k	-22.20	(-2.20)	30.40 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _M	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 155.000000 MHz</div><div>Center Freq: 155.000000 MHz</div><div>Radio Std: None</div></div><div><div>PASS</div><div>If Gain: Low</div><div>#Attenu: 40 dB</div><div>Avg: 100.00% of 10</div><div>Radio Device: BTS</div></div></div><div><div>Ref Offset 21 dB</div><div>Ref 37.0 dBm</div><div></div><div>Center 155 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>31.54 dBm/0.0125 MHz</div><table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>-29.19</td><td>(-4.10)</td><td>-50.00</td><td>-29.18</td><td>(-4.11)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.54</td><td>(-1.39)</td><td>-12.50 k</td><td>-39.13</td><td>(-0.88)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-21.53</td><td>(-1.53)</td><td>-31.35 k</td><td>-22.38</td><td>(-2.38)</td><td>30.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table></div><div>File <Temp.png> saved</div><div>STATUS</div></div><div><div>Frequency</div><div>Center Freq</div><div>155.000000 MHz</div><div>CF Step</div><div>12.000 kHz</div><div>Man</div><div>Freq Offset</div><div>0 Hz</div></div></div>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-29.19	(-4.10)	-50.00	-29.18	(-4.11)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.54	(-1.39)	-12.50 k	-39.13	(-0.88)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-21.53	(-1.53)	-31.35 k	-22.38	(-2.38)	30.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _H	<div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>Center Freq 173.900000 MHz</div><div>Center Freq: 173.900000 MHz</div><div>Radio Std: None</div></div><div><div>PASS</div><div>If Gain: Low</div><div>#Attenu: 40 dB</div><div>Avg: 100.00% of 10</div><div>Radio Device: BTS</div></div></div><div><div>Ref Offset 21 dB</div><div>Ref 37.0 dBm</div><div></div><div>Center 173.9 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>30.84 dBm/0.0125 MHz</div><table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>-30.64</td><td>(-2.18)</td><td>-50.00</td><td>-30.48</td><td>(-2.54)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.23</td><td>(-7.91)</td><td>-11.80 k</td><td>-40.23</td><td>(-7.26)</td><td>11.75 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-19.53</td><td>(-0.65)</td><td>-30.65 k</td><td>-18.69</td><td>(-0.50)</td><td>30.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table></div><div>File <MASK.D.state> recalled</div><div>STATUS</div></div><div><div>Frequency</div><div>Center Freq</div><div>173.900000 MHz</div><div>CF Step</div><div>12.000 kHz</div><div>Man</div><div>Freq Offset</div><div>0 Hz</div></div></div>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-30.64	(-2.18)	-50.00	-30.48	(-2.54)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.23	(-7.91)	-11.80 k	-40.23	(-7.26)	11.75 k	12.50 kHz	60.00 kHz	100.0 Hz	-19.53	(-0.65)	-30.65 k	-18.69	(-0.50)	30.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix D:Modulation Limit

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-ANH	FM	CH _M	-20	0.085	0.197	0.270	0.399	2.5	PASS
TX-ANH	FM	CH _M	-15	0.115	0.305	0.431	0.665	2.5	PASS
TX-ANH	FM	CH _M	-10	0.167	0.508	0.736	1.167	2.5	PASS
TX-ANH	FM	CH _M	-5	0.256	0.872	1.292	2.031	2.5	PASS
TX-ANH	FM	CH _M	0	0.432	1.547	2.286	2.287	2.5	PASS
TX-ANH	FM	CH _M	5	0.706	2.265	2.287	2.291	2.5	PASS
TX-ANH	FM	CH _M	10	1.235	2.266	2.292	2.299	2.5	PASS
TX-ANH	FM	CH _M	15	2.188	2.270	2.288	2.294	2.5	PASS
TX-ANH	FM	CH _M	20	2.238	2.265	2.300	2.295	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

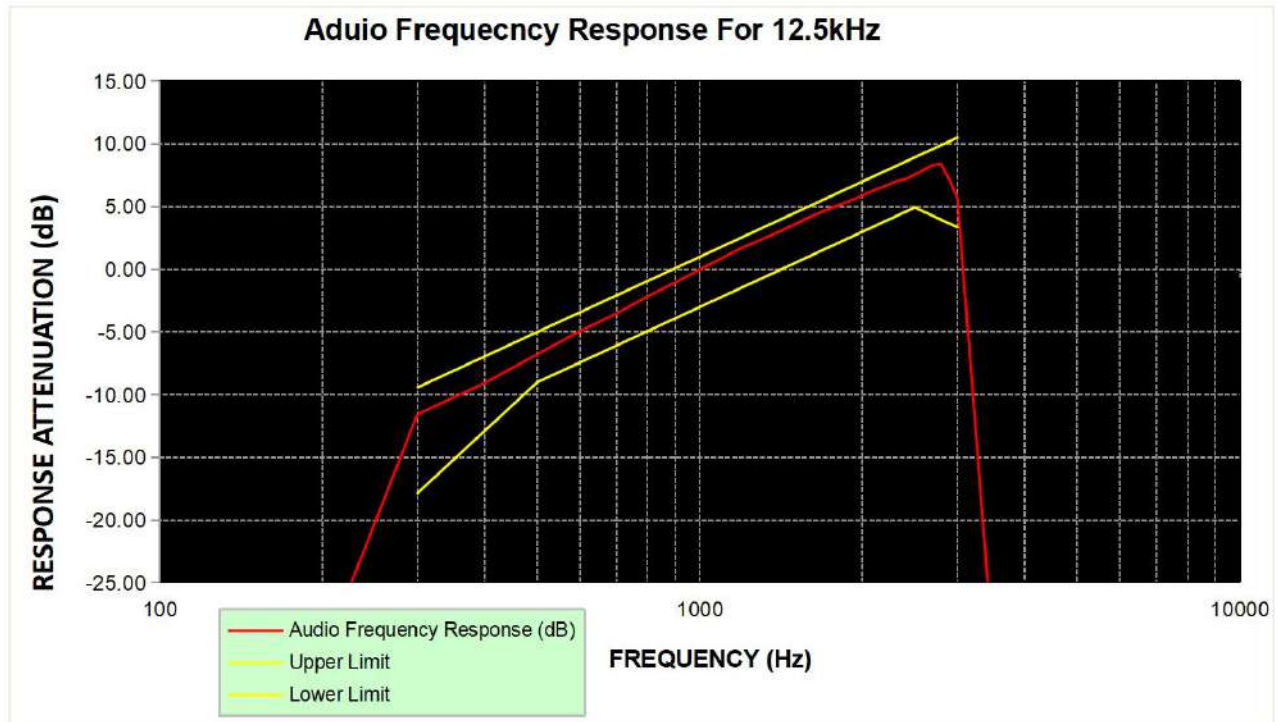


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _M	100	-30.76			PASS
TX-ANH	FM	CH _M	200	-30.89			PASS
TX-ANH	FM	CH _M	300	-11.56	-17.84	-9.42	PASS
TX-ANH	FM	CH _M	400	-9.07	-12.86	-6.93	PASS
TX-ANH	FM	CH _M	500	-6.78	-9.00	-5.00	PASS
TX-ANH	FM	CH _M	600	-4.92	-7.42	-3.42	PASS
TX-ANH	FM	CH _M	700	-3.54	-6.09	-2.09	PASS
TX-ANH	FM	CH _M	800	-2.16	-4.93	-0.93	PASS
TX-ANH	FM	CH _M	900	-1.06	-3.91	0.09	PASS
TX-ANH	FM	CH _M	1000	-0.01	-3.00	1.00	PASS
TX-ANH	FM	CH _M	1200	1.73	-1.42	2.58	PASS
TX-ANH	FM	CH _M	1400	2.98	-0.09	3.91	PASS
TX-ANH	FM	CH _M	1600	4.18	1.07	5.07	PASS
TX-ANH	FM	CH _M	1800	5.08	2.09	6.09	PASS
TX-ANH	FM	CH _M	2000	5.88	3.00	7.00	PASS
TX-ANH	FM	CH _M	2100	6.31	3.42	7.42	PASS
TX-ANH	FM	CH _M	2200	6.62	3.83	7.83	PASS
TX-ANH	FM	CH _M	2300	7.00	4.21	8.21	PASS
TX-ANH	FM	CH _M	2400	7.18	4.58	8.58	PASS
TX-ANH	FM	CH _M	2500	7.55	4.93	8.93	PASS
TX-ANH	FM	CH _M	2600	7.93	4.59	9.27	PASS
TX-ANH	FM	CH _M	2700	8.32	4.27	9.60	PASS
TX-ANH	FM	CH _M	2800	8.39	3.95	9.91	PASS
TX-ANH	FM	CH _M	2900	7.10	3.65	10.22	PASS
TX-ANH	FM	CH _M	3000	5.64	3.35	10.51	PASS
TX-ANH	FM	CH _M	3500	-30.97			PASS
TX-ANH	FM	CH _M	4000	-31.03			PASS
TX-ANH	FM	CH _M	4500	-30.99			PASS
TX-ANH	FM	CH _M	5000	-30.74			PASS

Appendix E:Audio Frequency Response

TEST PLOT RESULT



Note: The highest audio frequency response at 3kHz<3.125kHz, so meet the requirement.

Appendix F:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-DNH	4FSK	V _N	-30	-0.228	-0.226	-0.230	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.229	-0.229	-0.233	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.230	-0.238	-0.232	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.220	-0.226	-0.242	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.224	-0.227	-0.244	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.226	-0.237	-0.254	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.007	-0.020	-0.033	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.007	-0.020	-0.033	±5.0	PASS
TX-DNH	4FSK	V _N	50	-0.007	-0.020	-0.033	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.011	-0.022	-0.033	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.011	-0.022	-0.034	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.011	-0.022	-0.034	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.228	-0.226	-0.230	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.229	-0.229	-0.233	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.230	-0.238	-0.232	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.220	-0.226	-0.242	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.224	-0.227	-0.244	±5.0	PASS
TX-DNL	4FSK	V _N	50	-0.226	-0.237	-0.254	±5.0	PASS
TX-ANH	FM	V _N	-30	-0.007	-0.020	-0.033	±5.0	PASS
TX-ANH	FM	V _N	-20	-0.007	-0.020	-0.033	±5.0	PASS
TX-ANH	FM	V _N	-10	-0.007	-0.020	-0.033	±5.0	PASS
TX-ANH	FM	V _N	0	-0.011	-0.022	-0.033	±5.0	PASS
TX-ANH	FM	V _N	10	-0.011	-0.022	-0.034	±5.0	PASS
TX-ANH	FM	V _N	20	-0.011	-0.022	-0.034	±5.0	PASS
TX-ANH	FM	V _N	30	-0.228	-0.226	-0.230	±5.0	PASS
TX-ANH	FM	V _N	40	-0.229	-0.229	-0.233	±5.0	PASS
TX-ANH	FM	V _N	50	-0.230	-0.238	-0.232	±5.0	PASS
TX-ANL	FM	V _N	-30	-0.220	-0.226	-0.242	±5.0	PASS
TX-ANL	FM	V _N	-20	-0.224	-0.227	-0.244	±5.0	PASS
TX-ANL	FM	V _N	-10	-0.226	-0.237	-0.254	±5.0	PASS
TX-ANL	FM	V _N	0	-0.007	-0.020	-0.033	±5.0	PASS
TX-ANL	FM	V _N	10	-0.007	-0.020	-0.033	±5.0	PASS
TX-ANL	FM	V _N	20	-0.007	-0.020	-0.033	±5.0	PASS
TX-ANL	FM	V _N	30	-0.011	-0.022	-0.033	±5.0	PASS
TX-ANL	FM	V _N	40	-0.011	-0.022	-0.034	±5.0	PASS
TX-ANL	FM	V _N	50	-0.011	-0.022	-0.034	±5.0	PASS

Appendix G:Frequency Stability Test & Voltage

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-DNH	4FSK	V _N	T _N	-0.228	-0.226	-0.230	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.229	-0.229	-0.233	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.230	-0.238	-0.232	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.220	-0.226	-0.242	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.224	-0.227	-0.244	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.226	-0.237	-0.254	±5.0	PASS
TX-ANH	FM	V _N	T _N	-0.007	-0.020	-0.033	±5.0	PASS
TX-ANH	FM	V _L	T _N	-0.007	-0.020	-0.033	±5.0	PASS
TX-ANH	FM	V _H	T _N	-0.007	-0.020	-0.033	±5.0	PASS
TX-ANL	FM	V _N	T _N	-0.011	-0.022	-0.033	±5.0	PASS
TX-ANL	FM	V _L	T _N	-0.011	-0.022	-0.034	±5.0	PASS
TX-ANL	FM	V _H	T _N	-0.011	-0.022	-0.034	±5.0	PASS




Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-DNH	4FSK	CH _M	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 50.00 dBm Offset 20.50 dB Att 39 dB AQT 100 ms DBW 25 kHz Freq 155.0 MHz TRG:IFR(17MHz) YIG Bypass</p> <p>1 FM Time Domain</p> <p>CF 155.0 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th colspan="2">Carrier Power 31.51 dBm</th> <th colspan="2">Carrier Offset -30.06 Hz</th> </tr> <tr> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> </tr> </thead> <tbody> <tr> <td>14.098 kHz</td> <td>-13.367 kHz</td> <td>13.732 kHz</td> <td>2.7279 kHz</td> </tr> </tbody> </table> <p>Mod. Freq. SINAD THD</p> <p>Analog Demod: Waiting for Trigger...</p> <p>Date: 8.OCT.2023 14:13:09</p>	Carrier Power 31.51 dBm		Carrier Offset -30.06 Hz		+Peak	-Peak	+Peak/2	RMS	14.098 kHz	-13.367 kHz	13.732 kHz	2.7279 kHz
Carrier Power 31.51 dBm		Carrier Offset -30.06 Hz													
+Peak	-Peak	+Peak/2	RMS												
14.098 kHz	-13.367 kHz	13.732 kHz	2.7279 kHz												
TX-DNH	4FSK	CH _M	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 50.00 dBm Offset 20.50 dB Att 39 dB AQT 100 ms DBW 25 kHz Freq 155.0 MHz TRG:IFR(17MHz) YIG Bypass</p> <p>1 FM Time Domain</p> <p>CF 155.0 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th colspan="2">Carrier Power 31.51 dBm</th> <th colspan="2">Carrier Offset -29.93 Hz</th> </tr> <tr> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> </tr> </thead> <tbody> <tr> <td>14.608 kHz</td> <td>-14.025 kHz</td> <td>14.316 kHz</td> <td>2.5424 kHz</td> </tr> </tbody> </table> <p>Mod. Freq. SINAD THD</p> <p>Analog Demod: Waiting for Trigger...</p> <p>Date: 8.OCT.2023 14:13:37</p>	Carrier Power 31.51 dBm		Carrier Offset -29.93 Hz		+Peak	-Peak	+Peak/2	RMS	14.608 kHz	-14.025 kHz	14.316 kHz	2.5424 kHz
Carrier Power 31.51 dBm		Carrier Offset -29.93 Hz													
+Peak	-Peak	+Peak/2	RMS												
14.608 kHz	-14.025 kHz	14.316 kHz	2.5424 kHz												
TX-ANH	FM	CH _M	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 50.00 dBm Offset 20.50 dB Att 39 dB AQT 100 ms DBW 25 kHz Freq 155.0 MHz TRG:IFR(17MHz) YIG Bypass</p> <p>1 FM Time Domain</p> <p>CF 155.0 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th colspan="2">Carrier Power 31.52 dBm</th> <th colspan="2">Carrier Offset -29.46 Hz</th> </tr> <tr> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> </tr> </thead> <tbody> <tr> <td>14.168 kHz</td> <td>-14.596 kHz</td> <td>14.382 kHz</td> <td>2.7462 kHz</td> </tr> </tbody> </table> <p>Mod. Freq. SINAD THD</p> <p>Analog Demod: Waiting for Trigger...</p> <p>Date: 8.OCT.2023 14:12:44</p>	Carrier Power 31.52 dBm		Carrier Offset -29.46 Hz		+Peak	-Peak	+Peak/2	RMS	14.168 kHz	-14.596 kHz	14.382 kHz	2.7462 kHz
Carrier Power 31.52 dBm		Carrier Offset -29.46 Hz													
+Peak	-Peak	+Peak/2	RMS												
14.168 kHz	-14.596 kHz	14.382 kHz	2.7462 kHz												


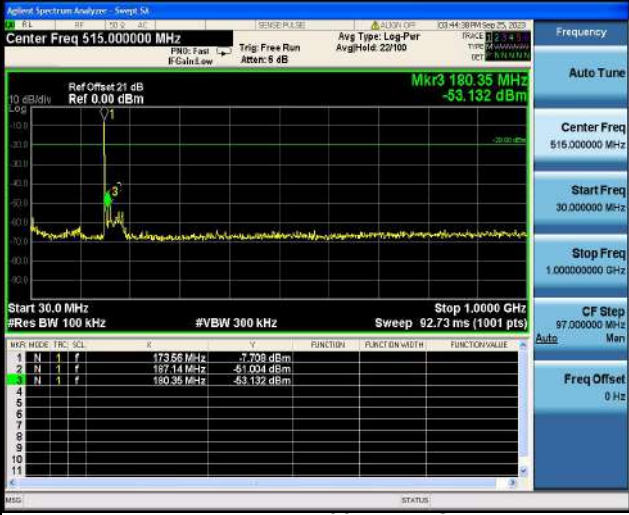

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-ANH	FM	CH _M	<div><div>MultiViewSpectrumAnalog Demod</div><div>Ref Level 50.00 dBm Offset 20.50 dB Att 39 dB AQT 100 ms DBW 25 kHz Freq 155.0 MHz TRG:JPR(17MHz) V93 Express</div><div>1 FM Time Domain</div><div><div>12.5 kHz</div><div>9.375 kHz</div><div>6.25 kHz</div><div>3.125 kHz</div><div>0 kHz</div><div>-3.125 kHz</div><div>-6.25 kHz</div><div>-9.375 kHz</div><div>-12.5 kHz</div></div><div>CF 155.0 MHz1001 pts10.0 ms</div><div>4 Result Summary</div><table><tr><td></td><td colspan="2">Carrier Power 31.51 dBm</td><td colspan="3">Carrier Offset -30.28 Hz</td></tr><tr><td>FM</td><td>+Peak 13.437 kHz</td><td>-Peak -14.356 kHz</td><td>+Peak/2 13.896 kHz</td><td>RMS 2.5511 kHz</td><td>Mod. Freq. --- SINAD --- THD ---</td></tr></table><div>Analog Demod: Waiting for Trigger...Measuring...</div><div>Date: 8.OCT.2023 14:14:59</div></div>		Carrier Power 31.51 dBm		Carrier Offset -30.28 Hz			FM	+Peak 13.437 kHz	-Peak -14.356 kHz	+Peak/2 13.896 kHz	RMS 2.5511 kHz	Mod. Freq. --- SINAD --- THD ---
	Carrier Power 31.51 dBm		Carrier Offset -30.28 Hz												
FM	+Peak 13.437 kHz	-Peak -14.356 kHz	+Peak/2 13.896 kHz	RMS 2.5511 kHz	Mod. Freq. --- SINAD --- THD ---										




Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	
TX-DNH	4FSK	CH _L	
TX-DNH	4FSK	CH _M	




Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _M	 <p>Agilent Spectrum Analyzer - Sweep 54</p> <p>Center Freq 1.27500000 GHz</p> <p>Ref Offset 21 dB Ref 0.00 dBm</p> <p>Mkr1 1.284 35 GHz -53.521 dBm</p> <p>Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p> <p>Stop 1.5500 GHz</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.27500000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 1.55000000 GHz</p> <p>CF Step 55.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
TX-DNH	4FSK	CH _H	 <p>Agilent Spectrum Analyzer - Sweep 54</p> <p>Center Freq 515.000000 MHz</p> <p>Ref Offset 21 dB Ref 0.00 dBm</p> <p>Mkr3 180.35 MHz -53.132 dBm</p> <p>Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 62.73 ms (1001 pts)</p> <p>Stop 1.0000 GHz</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 97.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
TX-DNH	4FSK	CH _H	 <p>Agilent Spectrum Analyzer - Sweep 54</p> <p>Center Freq 1.36950000 GHz</p> <p>Ref Offset 21 dB Ref 0.00 dBm</p> <p>Mkr1 1.678 402 GHz -53.087 dBm</p> <p>Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p> <p>Stop 1.7390 GHz</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.36950000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 1.73900000 GHz</p> <p>CF Step 73.900000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	 <p>Agilent Spectrum Analyzer - Sweep 54</p> <p>Center Freq 515.000000 MHz</p> <p>Ref Offset 21 dB</p> <p>Ref 0.00 dBm</p> <p>Mkr3 129.91 MHz</p> <p>-49.623 dBm</p> <p>Start 30.0 MHz</p> <p>Stop 1.0000 GHz</p> <p>Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Sweep 62.73 ms (1001 pts)</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Freq Offset 0 Hz</p>
TX-ANH	FM	CH _L	 <p>Agilent Spectrum Analyzer - Sweep 54</p> <p>Center Freq 1.180500000 GHz</p> <p>Ref Offset 21 dB</p> <p>Ref 0.00 dBm</p> <p>Mkr1 1.287356 GHz</p> <p>-53.962 dBm</p> <p>Start 1.0000 GHz</p> <p>Stop 1.3610 GHz</p> <p>Res BW 1.0 MHz</p> <p>#VBW 3.0 MHz</p> <p>Sweep 1.000 ms (1001 pts)</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.180500000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 1.361000000 GHz</p> <p>CF Step 36.100000 MHz</p> <p>Freq Offset 0 Hz</p>
TX-ANH	FM	CH _M	 <p>Agilent Spectrum Analyzer - Sweep 54</p> <p>Center Freq 515.000000 MHz</p> <p>Ref Offset 21 dB</p> <p>Ref 0.00 dBm</p> <p>Mkr3 122.15 MHz</p> <p>-51.699 dBm</p> <p>Start 30.0 MHz</p> <p>Stop 1.0000 GHz</p> <p>Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Sweep 62.73 ms (1001 pts)</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Freq Offset 0 Hz</p>

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _M	 <p>Agilent Spectrum Analyzer - Sweep 54</p> <p>Center Freq 1.275000000 GHz</p> <p>Ref Offset 21 dB Ref 0.00 dBm</p> <p>Mkr1 1.50105 GHz -53.785 dBm</p> <p>Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p> <p>Stop 1.5500 GHz</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.275000000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 1.550000000 GHz</p> <p>CF Step 55.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
TX-ANH	FM	CH _H	 <p>Agilent Spectrum Analyzer - Sweep 54</p> <p>Center Freq 515.0000000 MHz</p> <p>Ref Offset 21 dB Ref 0.00 dBm</p> <p>Mkr3 180.35 MHz -52.423 dBm</p> <p>Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 62.73 ms (1001 pts)</p> <p>Stop 1.0000 GHz</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.0000000 MHz</p> <p>Start Freq 30.0000000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 97.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
TX-ANH	FM	CH _H	 <p>Agilent Spectrum Analyzer - Sweep 54</p> <p>Center Freq 1.369500000 GHz</p> <p>Ref Offset 21 dB Ref 0.00 dBm</p> <p>Mkr1 1.736783 GHz -52.964 dBm</p> <p>Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p> <p>Stop 1.7390 GHz</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.369500000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 1.739000000 GHz</p> <p>CF Step 73.900000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>

----End of Report----