TESTING LABORATORY
CERTIFICATE #4820.01

FCC PART 22, PART 74 AND PART 90

TEST REPORT

For

Tait International Limited

245 Wooldridge Road, Harewood, 1645, Christchurch, New Zealand

FCC ID: CASTPEB1E

Report Type:	**Product Type:**
Original Report	Two way radio

Report Number:	RDG190213001-00C
Report Date:	2019-03-05
Reviewed By:	Jerry Zhang EMC Manager
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:		Two way radio
EUT Model:		T03-00303-BCAA
Multiple Model:		T03-00303-BAAA, T03-00303-BBAA
Operation Frequency:		136-174 MHz
Output Power(Conducted):		High: 5W Low: 1W
Modulation Type:		FM/4FSK
Channel Spacing:		12.5/25kHz
Rated Input Voltage:		7.4V DC from battery or DC 12V from adapter
Adapter Information	**Model:**	ICP30-120-2000
	Input:	AC 100-240V, 50/60Hz,0.8A
	Output:	DC 12V, 2000mA
External Dimension:		145mm(L)*67mm(W)*36mm(H)
Serial Number:		190213001-1(model: T03-00303-BCAA) 190213001-2(model: T03-00303-BAAA) 190213001-3(model: T03-00303-BBAA)
EUT Received Date:		2019-02-18

Note: The series products models T03-00303-BCAA, T03-00303-BAAA, T03-00303-BBAA are electrically identical, we selected T03-00303-BCAA for fully testing, and all model for radiation emission test, the details of the difference between them were explained in the attached declaration letter.

Objective

This test report is prepared on behalf of *Tait International Limited* in accordance with Part 2, part 22, part 74 and Part 90 of the Federal Communication Commission rules.

Related Submittal(s)/Grant(s)

FCC Part 15C DSS submissions with FCC ID: CASTPEB1E.
FCC Part 15C DTS submissions with FCC ID: CASTPEB1E.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of federal Regulations Title 47 Part 2, Sub-part J as well as the following individual parts:

Part 22 – Public Mobile Service
Part 74 – Experimental Radio, Auxiliary, Special Broadcast and other Program Distributonal Service
Part 90 – Private Land Mobile Radio Service

Applicable Standards: TIA 603-D

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Unwanted Emissions, radiated	30MHz ~ 1GHz:5.85 dB 1G~26.5GHz: 5.23 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier : CN0022.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a test mode which has been done in the factory.

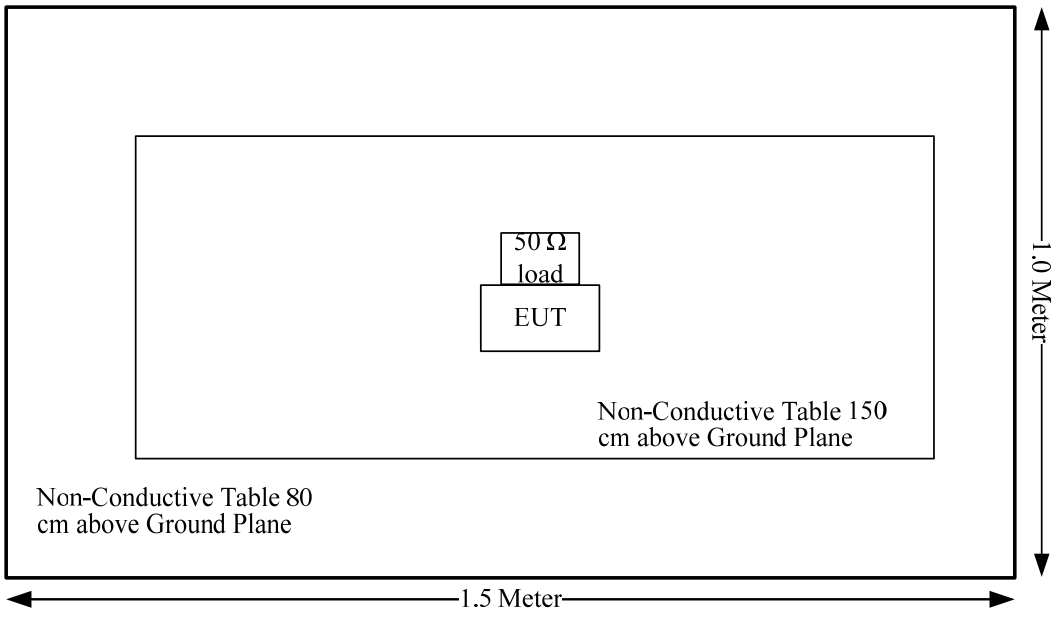
Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	50 Load Teminal	100W	100W-1

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§1.1310 and §2.1093	RF Exposure	Compliance
§2.1046; § 22.727; §74.461; §90.205	RF Output Power	Compliance
§2.1047;§90.207	Modulation Characteristic	Compliance
§2.1049;§22.357;§ 22.731; §74.462; §90.209; §90.210	Occupied Bandwidth	Compliance
§2.1051; §22.861; §74.462; §90.210	Spurious Emission at Antenna Terminal	Compliance
§2.1053;§22.861; §74.462;§90.210	Spurious Radiated Emissions	Compliance
§2.1055; § 22.355; §74.464;§90.213	Frequency Stability	Compliance
§90.214	Transient Frequency Behavior	Compliance

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
R&S	EMI Test Receiver	ESCI	100224	2018-12-10	2019-12-10
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2018-05-06	2019-05-06
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2018-09-05	2019-09-05
HP	Amplifier	8447D	2727A05902	2018-09-05	2019-09-05
Agilent	Spectrum Analyzer	E4440A	SG43360054	2019-01-04	2020-01-04
TDK RF	Horn Antenna	HRN-0118	130 084	2018-10-12	2021-10-12
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2018-09-05	2019-09-05
MITEQ	Amplifier	AFS42-00101800-25-S-42	2001271	2018-09-05	2019-09-05
Agilent	Signal Generator	E8247C	MY43321350	2018-12-10	2019-12-10
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2018-08-03	2019-08-03
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	2018-05-06	2019-05-06
Weinschel	Coaxial Attenuators	53-20-34	LN749	2018-09-06	2019-09-06
HP	RF Communications Test Set	8920A	3438A05201	2019-01-04	2020-01-04
UNI-T	Multimeter	UT39A	M130199938	2018-07-24	2019-07-24
Pro instrument	DC Power Supply	pps3300	3300012	N/A	N/A
Agilent	MXG Vector Signal Generator	N5182B	MY51350142	2018-07-19	2019-07-19

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

FCC §1.1310 & §2.1093 - RF EXPOSURE

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliance, please refer to the SAR report: RDG190213001-20A.

FCC §2.1046 & § 22.727 & §74.461 & §90.205- RF OUTPUT POWER

Applicable Standard

FCC §2.1046, § 22.727, §74.461 and §90.205

Test Procedure

Conducted RF Output Power:

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

Spectrum Analyzer Setting:

RBW	VBW
100 kHz	300 kHz

Test Data

Environmental Conditions

Temperature:	24.5℃
Relative Humidity:	67 %
ATM Pressure:	100.4 kPa

The testing was performed by Andy Huang on 2019-02-21.

Test Mode: Transmitting

Test Result: Compliance. Please refer to following table.

Modulation Mode	Channel Separation	f_c	Reading (W)		Note
		MHz	High Power Level	Low Power Level	
FM	12.5kHz	136.0125	5.90	0.95	FCC part 90
		155.7525	5.08	0.93	
		173.3875	5.60	0.90	
4FSK	12.5kHz	136.0125	5.89	1.09	
		155.7525	5.24	1.17	
		173.3875	5.70	1.07	
FM	12.5kHz	150.8125	5.26	0.86	FCC part 22
	25 kHz		5.25	0.86	
4FSK	12.5kHz		5.45	1.00	
FM	12.5kHz	161.1	5.35	0.95	FCC part 74
	25 kHz		5.35	0.95	
4FSK	12.5kHz		5.53	1.10	

Note:
The high rated power level is 5W, and low rated power level is 1W.
(Limit: <6W for high power level, < 1.2W for low power level)

FCC §2.1047 - MODULATION CHARACTERISTIC

Applicable Standard

FCC §2.1047

(a) Equipment which utilizes voice modulated communication shall show the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz. for equipment which is required to have a low pass filter, the frequency response of the filter, or all of the circuitry installed between the modulation limited and the modulated stage shall be supplied.
(b) Equipment which employs modulation limiting, a curve showing the percentage of modulation versus the modulation input voltage shall be supplied.

Test Procedure

Test Method: TIA/EIA-603 2.2.3

Test Data

Environmental Conditions

Temperature:	24.5 ℃
Relative Humidity:	67 %
ATM Pressure:	100.4 kPa

The testing was performed by Andy Huang on 2019-02-21.

Test Mode: Transmitting

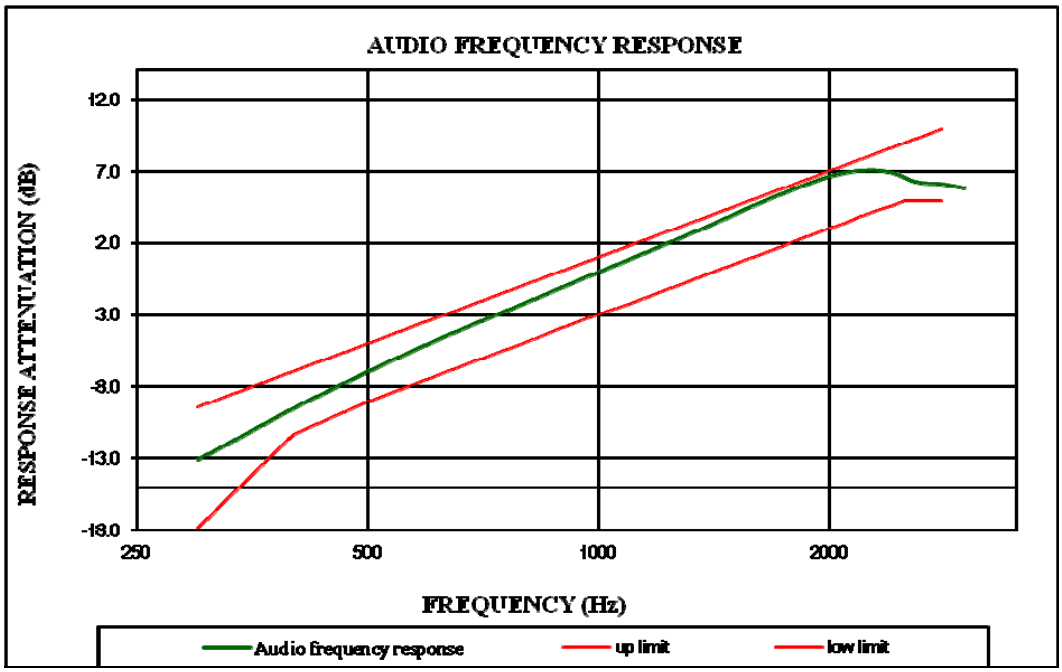
Result: Compliance.

12.5kHz:

Audio Frequency Response – High Power,12.5kHz

Carrier Frequency: 155.7525 MHz

Modulation Frequency (Hz)	Response data (dB)
300	-13.09
400	-9.49
500	-6.95
600	-4.98
700	-3.47
800	-2.17
900	-1.02
1000	0.00
1200	1.76
1400	3.28
1600	4.68
1800	5.79
2000	6.66
2200	7.07
2400	6.96
2600	6.26
2800	6.13
3000	5.84

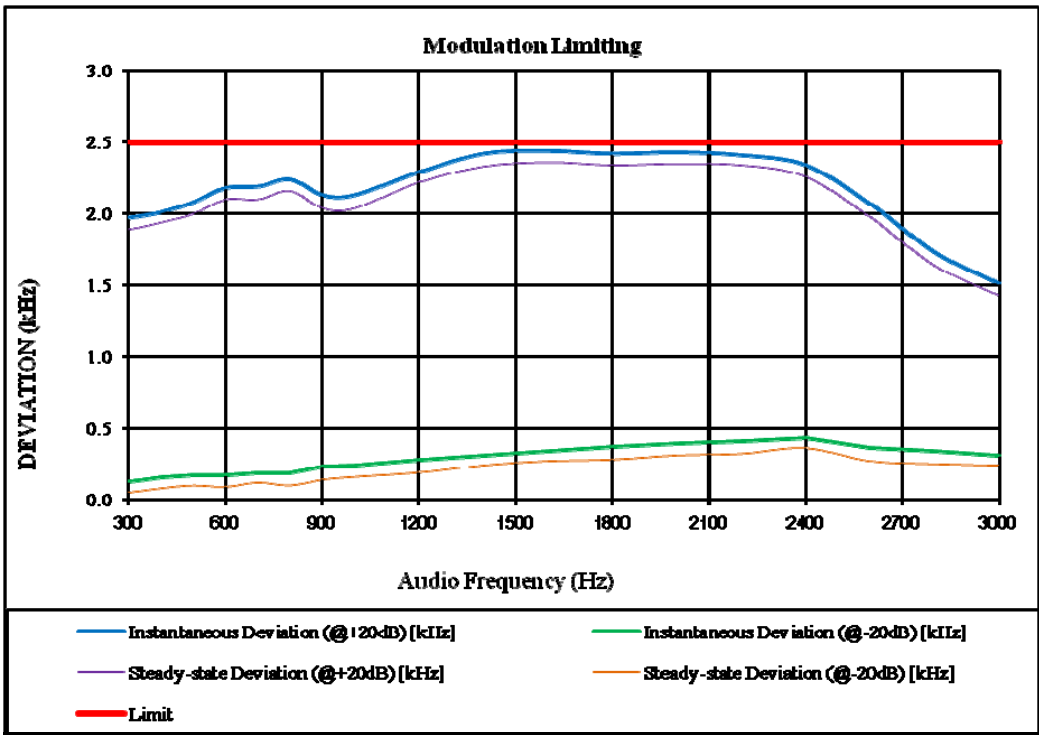


MODULATION LIMITING – High Power

12.5kHz

Carrier Frequency: 155.7525 MHz

Audio Frequency (Hz)	Instantaneous		Steady-state		Limit [kHz]
	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	
300	1.97	0.13	1.89	0.05	2.5
400	2.01	0.16	1.94	0.08	2.5
500	2.08	0.17	2.00	0.10	2.5
600	2.18	0.17	2.10	0.09	2.5
700	2.19	0.19	2.10	0.12	2.5
800	2.24	0.19	2.16	0.10	2.5
900	2.13	0.23	2.04	0.14	2.5
1000	2.13	0.24	2.04	0.16	2.5
1200	2.29	0.28	2.22	0.19	2.5
1400	2.42	0.31	2.33	0.24	2.5
1600	2.44	0.34	2.36	0.27	2.5
1800	2.42	0.37	2.34	0.28	2.5
2000	2.43	0.39	2.35	0.31	2.5
2200	2.41	0.41	2.34	0.32	2.5
2400	2.34	0.43	2.26	0.36	2.5
2600	2.07	0.36	1.98	0.27	2.5
2800	1.73	0.34	1.64	0.25	2.5
3000	1.51	0.31	1.43	0.24	2.5

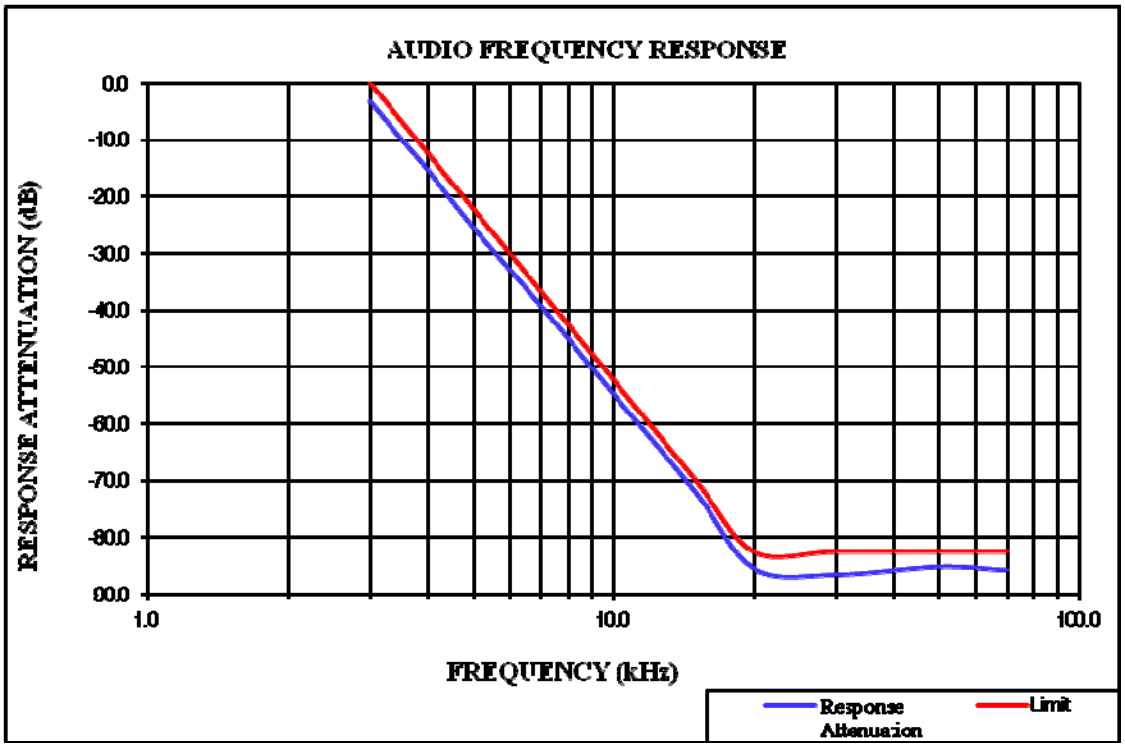


Audio Frequency Low Pass Filter Response – High Power

12.5kHz:

Carrier Frequency: 155.7525 MHz

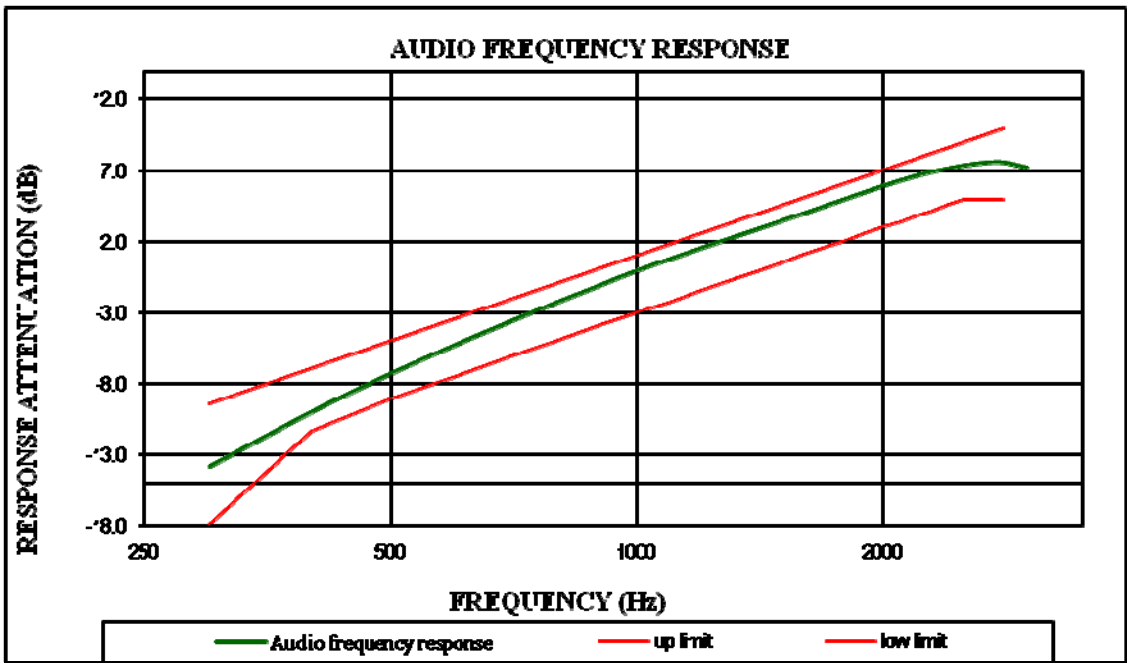
Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
3.0	-3.1	0.0
3.5	-9.7	-6.7
4.0	-15.3	-12.5
5.0	-25.4	-22.2
7.0	-39.3	-36.8
10.0	-54.8	-52.3
15.0	-72.1	-69.9
20.0	-85.6	-82.5
30.0	-86.7	-82.5
50.0	-85.3	-82.5
70.0	-85.9	-82.5



25kHz:

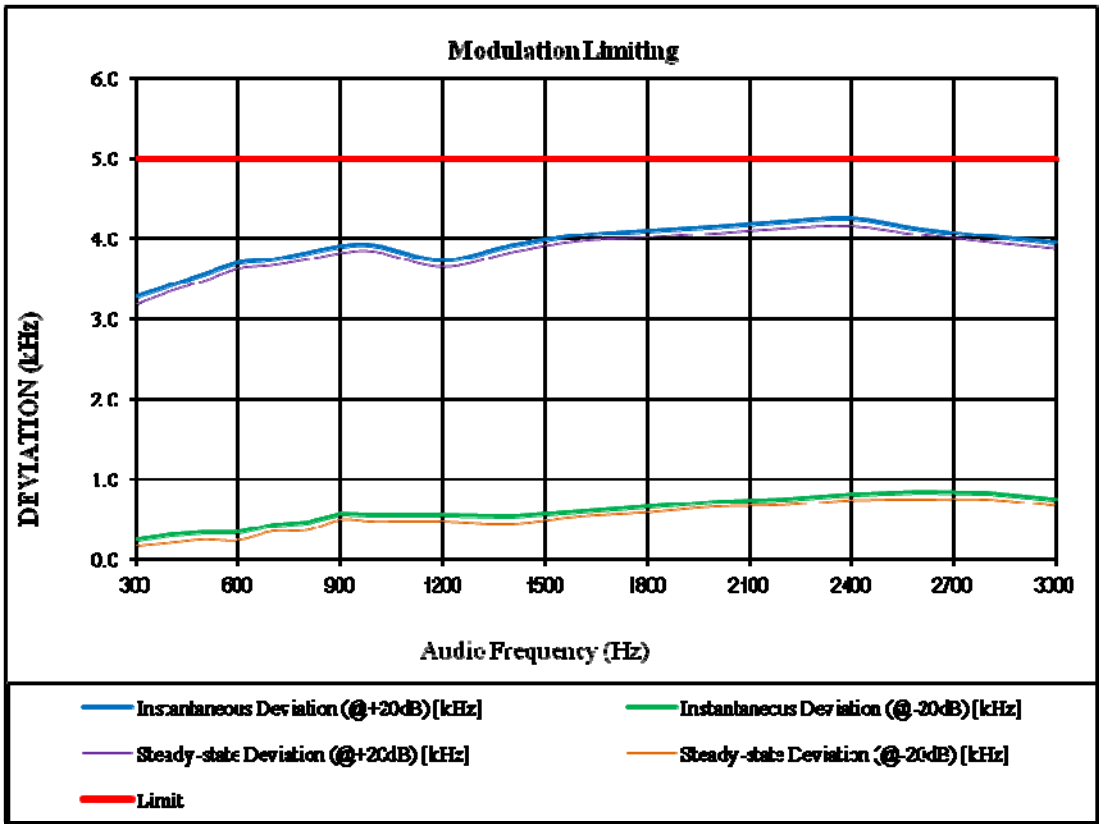
Carrier Frequency: 161.1 MHz, Channel Separation:25kHz

Modulation Frequency (Hz)	Response data (dB)
300	-13.76
400	-9.92
500	-7.23
600	-5.20
700	-3.56
800	-2.20
900	-1.04
1000	0.00
1200	1.60
1400	2.90
1600	4.03
1800	5.05
2000	5.95
2200	6.67
2400	7.18
2600	7.52
2800	7.62
3000	7.24



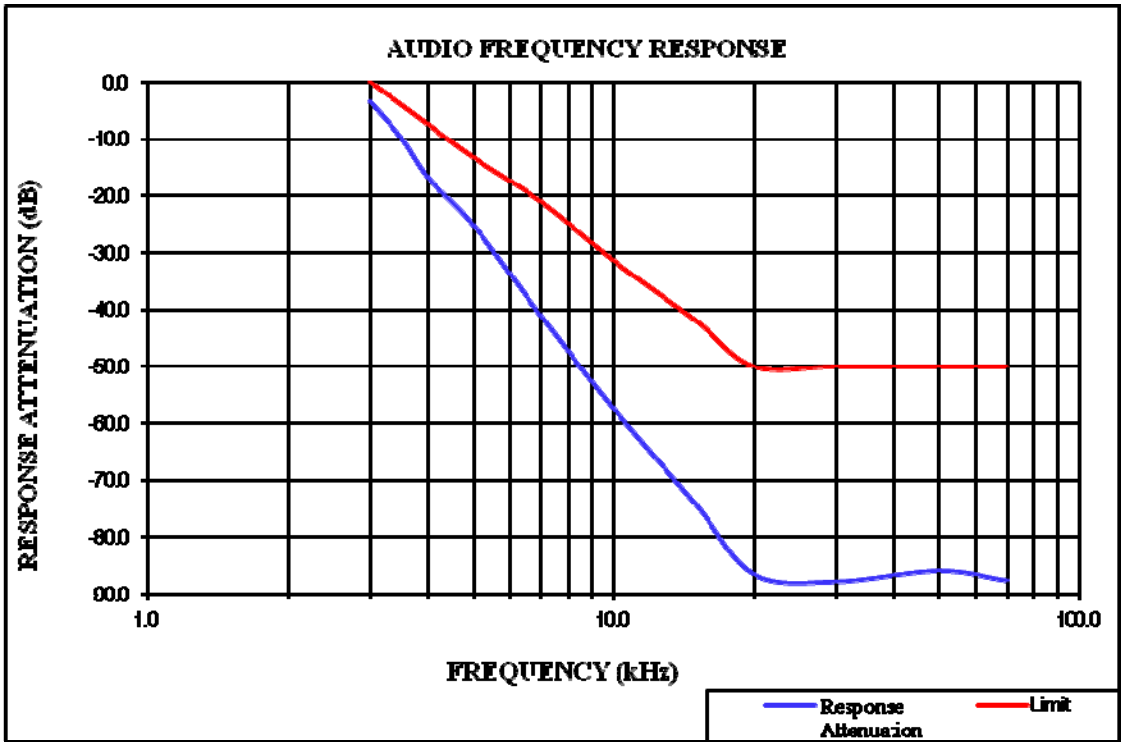
Carrier Frequency: 161.1 MHz, Channel Separation:25kHz

Audio Frequency (Hz)	Instantaneous		Steady-state		Limit [KHz]
	Deviation (@+20dB) [KHz]	Deviation (@-20dB) [KHz]	Deviation (@+20dB) [KHz]	Deviation (@-20dB) [KHz]	
300	3.29	0.26	3.20	0.18	5.0
400	3.43	0.31	3.36	0.22	5.0
500	3.57	0.34	3.49	0.26	5.0
600	3.71	0.34	3.64	0.25	5.0
700	3.75	0.44	3.68	0.36	5.0
800	3.83	0.46	3.75	0.37	5.0
900	3.91	0.57	3.83	0.50	5.0
1000	3.92	0.55	3.85	0.48	5.0
1200	3.74	0.56	3.66	0.48	5.0
1400	3.92	0.54	3.84	0.45	5.0
1600	4.05	0.61	3.98	0.54	5.0
1800	4.11	0.66	4.02	0.59	5.0
2000	4.16	0.73	4.08	0.66	5.0
2200	4.22	0.76	4.14	0.68	5.0
2400	4.26	0.81	4.17	0.74	5.0
2600	4.13	0.84	4.06	0.75	5.0
2800	4.04	0.83	3.97	0.75	5.0
3000	3.96	0.76	3.89	0.67	5.0



Carrier Frequency: 161.1 MHz, Channel Spacing 25 kHz

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
3.0	-3.5	0.0
3.5	-9.8	-4.0
4.0	-16.9	-7.5
5.0	-25.2	-13.3
7.0	-41.2	-21.1
10.0	-57.4	-31.4
15.0	-74.2	-41.9
20.0	-86.5	-50.0
30.0	-87.8	-50.0
50.0	-85.9	-50.0
70.0	-87.6	-50.0



FCC §2.1049 & §22.357 & § 22.731 & §74.462& §90.209 & §90.210 – OCCUPIED BANDWIDTH

Applicable Standard

FCC §2.1049, §22.357, § 22.731, §74.462, §90.209 and §90.210

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 300 Hz.

Test Data

Environmental Conditions

Temperature:	24.5℃
Relative Humidity:	67 %
ATM Pressure:	100.4 kPa

The testing was performed by Andy Huang on 2019-02-21.

Modulation Mode	Channel Separation	f_c	99% Occupied Bandwidth	26 dB Bandwidth	Power Level	Note
		MHz	kHz	kHz		
FM	12.5kHz	155.7525	9.920	10.321	High	FCC part 90
			9.920	10.321	Low	
4FSK	12.5kHz		8.116	10.922	High	
			7.315	9.519	Low	
FM	12.5kHz	150.8125	9.920	10.321	High	FCC part 22
			9.820	10.321	Low	
	25kHz		14.529	16.032	High	
			13.026	16.032	Low	
4FSK	12.5kHz		7.014	10.621	High	
			7.515	20.220	Low	
FM	12.5kHz	161.1	9.920	10.220	High	FCC part 74
			9.920	10.321	Low	
	25kHz		14.529	16.283	High	
			14.279	16.533	Low	
4FSK	12.5kHz		7.615	11.022	High	
			7.515	10.321	Low	

Note: Emission bandwidth was based on calculation method instead of measurement.
Emission Designator
Per CFR 47 §2.201& §2.202, BW = 2M + 2D

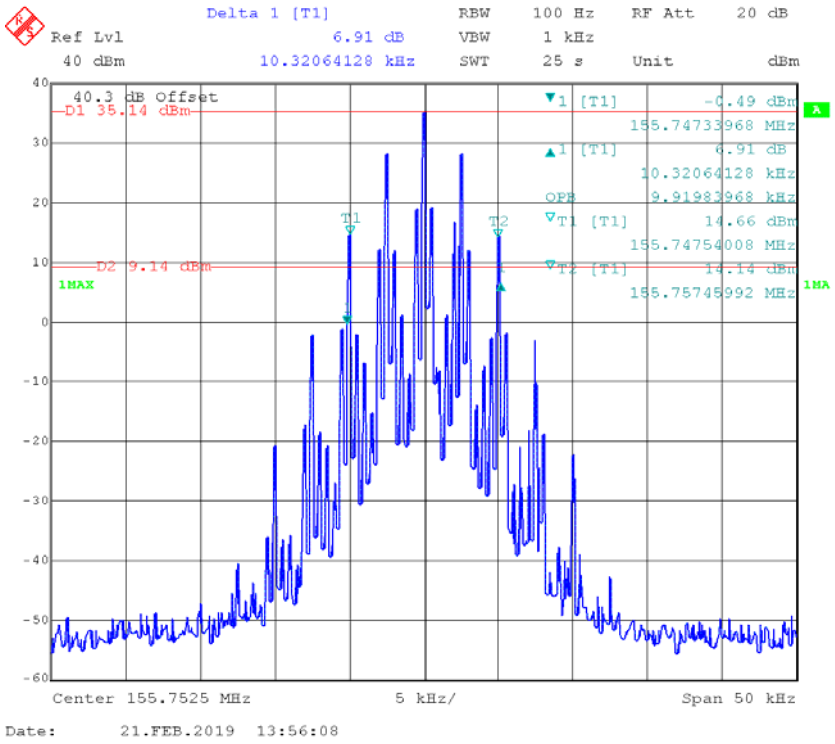
For FM Mode (Channel Spacing: 12.5 kHz)
Emission Designator 11K0F3E
In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.
BW = 2(M+D) = 2*(3.0 kHz + 2.5 kHz) = 11 kHz = 11K0
F3E portion of the designator represents an FM voice transmission
Therefore, the entire designator for 12.5 kHz channel spacing FM mode is 11K0F3E.

For FM Mode (Channel Spacing: 25 kHz)
Emission Designator 16K0F3E
In this case, the maximum modulating frequency is 3.0 kHz with a 5.0 kHz deviation.
BW = 2(M+D) = 2*(3.0 kHz + 5.0 kHz) = 16 kHz =16K0
F3E portion of the designator represents an FM voice transmission
Therefore, the entire designator for 25 kHz channel spacing FM mode is 16K0F3E.

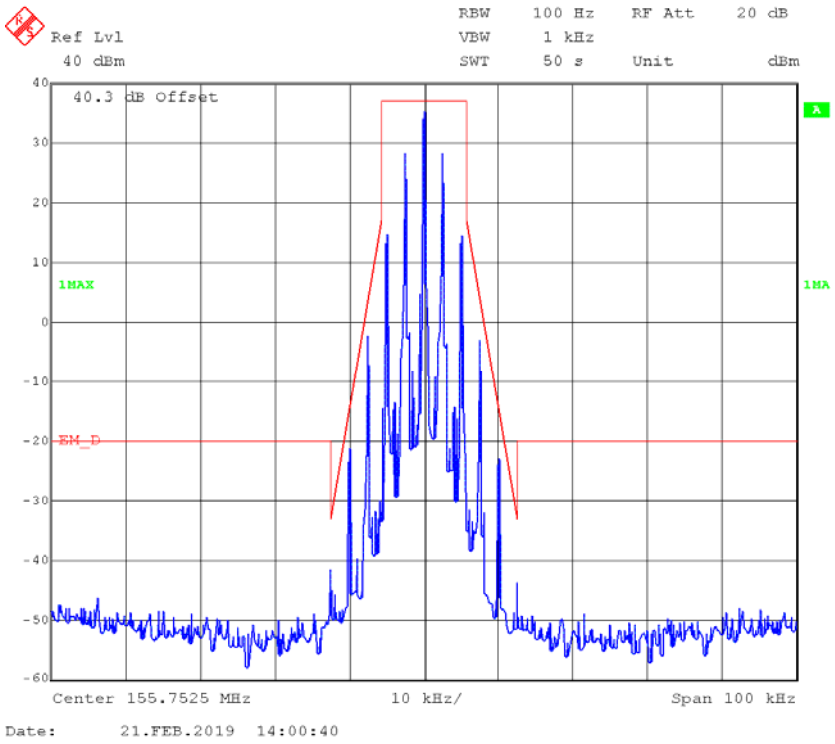
For Digital Mode (Channel Spacing: 12.5 kHz)
Emission Designator 7K60F1D and 7K60F1E
The 99% energy rule (title 47CFR 2.1049) was used for digital mode. It basically states that 99% of the modulation energy falls within X kHz, in this case, 7.60 kHz. The emission mask was obtained from 47CFR 90.210(d).
F1D and F1E portion of the designator indicates digital information.
Therefore, the entire designator for 12.5 kHz channel spacing digital mode is 7K60F1D and 7K60F1E.

Part 90:

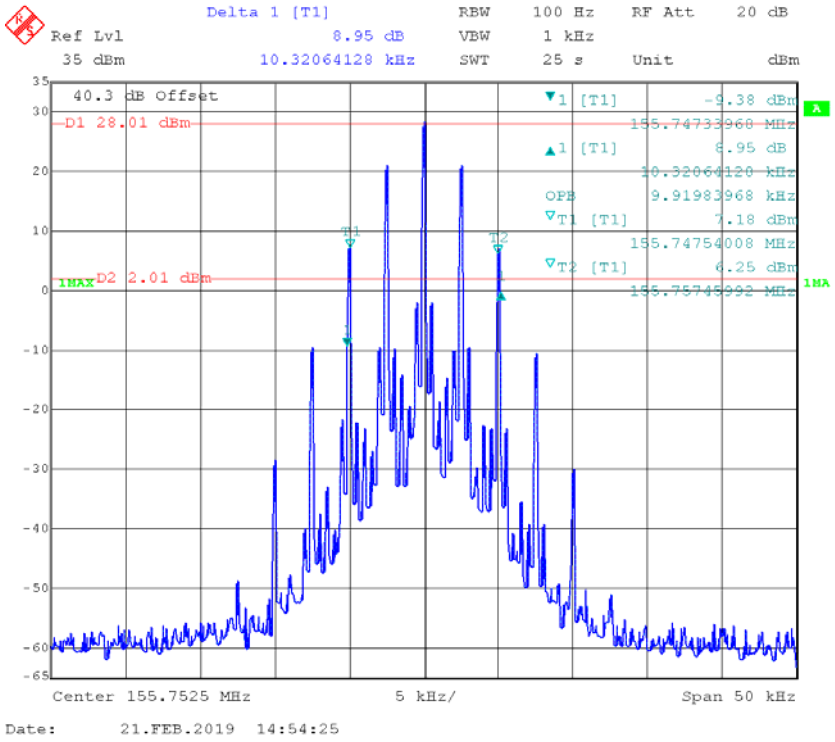
FM,12.5kHz,High Power - Frequency 155.7525 MHz: 99% Occupied & 26 dB Bandwidth



Emission Mask D



FM,12.5kHz,Low Power - Frequency 155.7525 MHz: 99% Occupied & 26 dB Bandwidth



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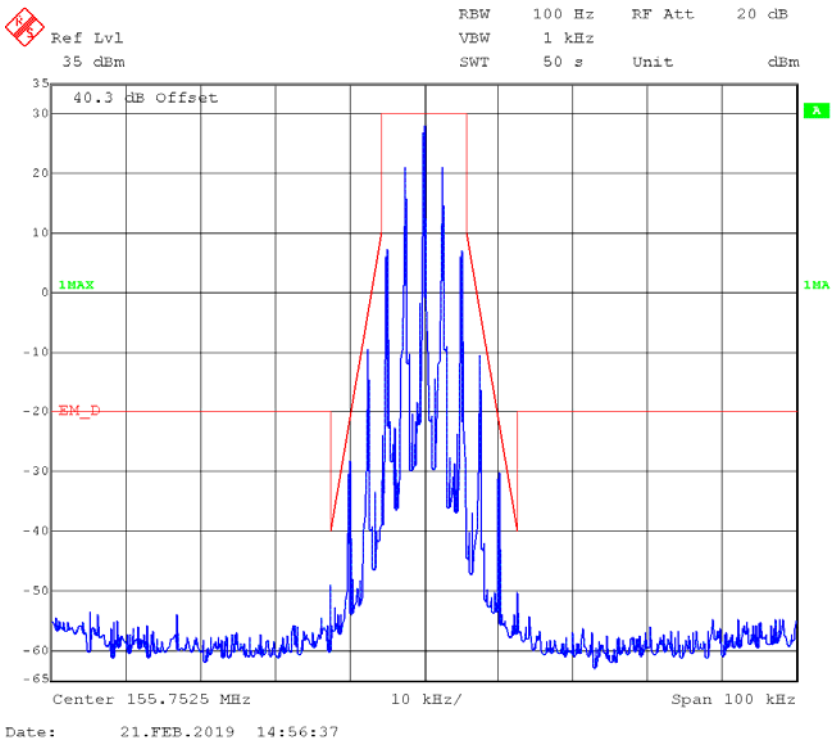
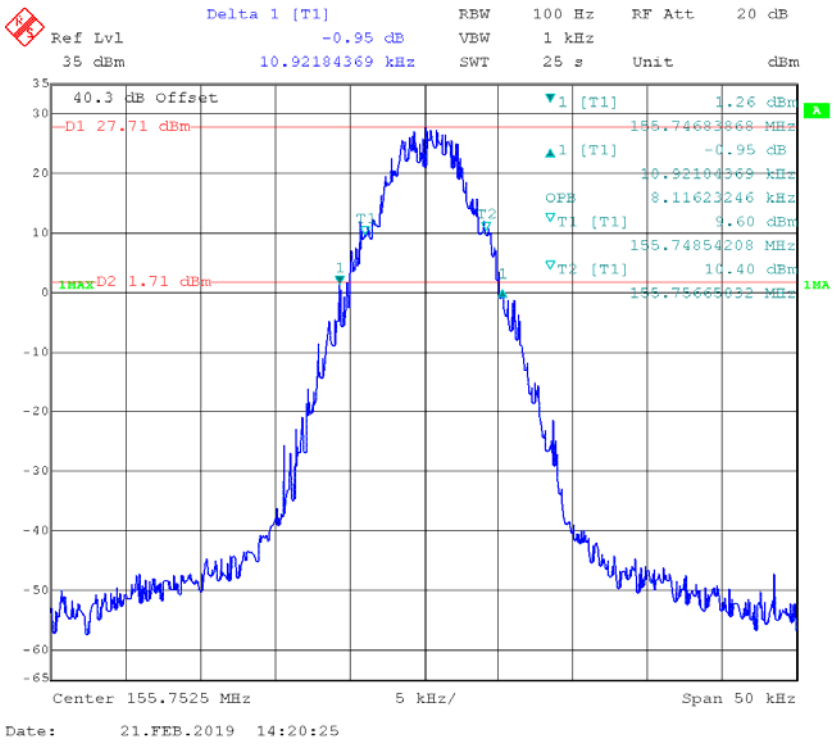


4FSK,12.5kHz,High Power - Frequency 155.7525 MHz: 99% Occupied & 26 dB Bandwidth



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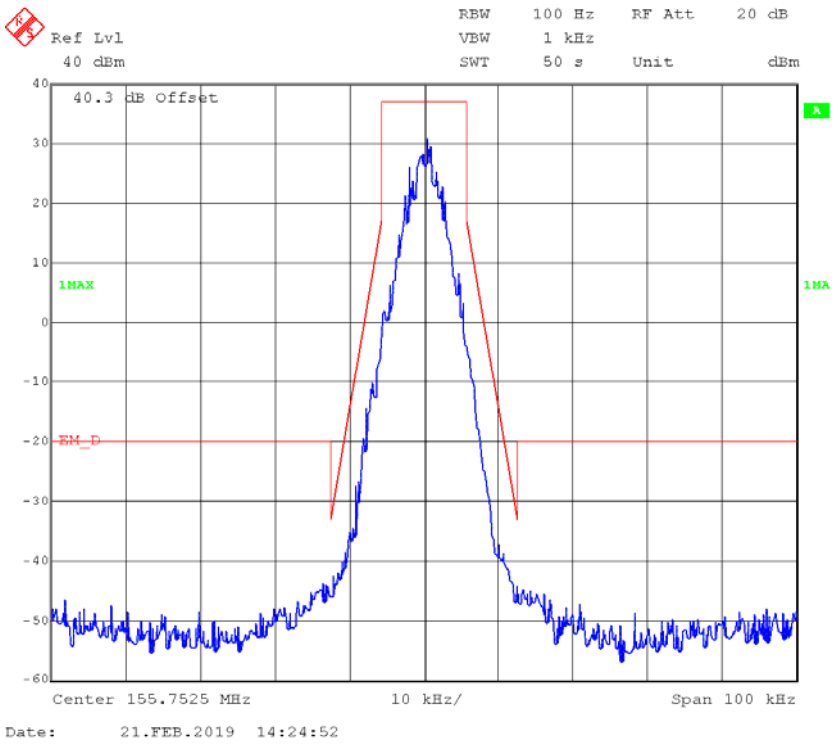
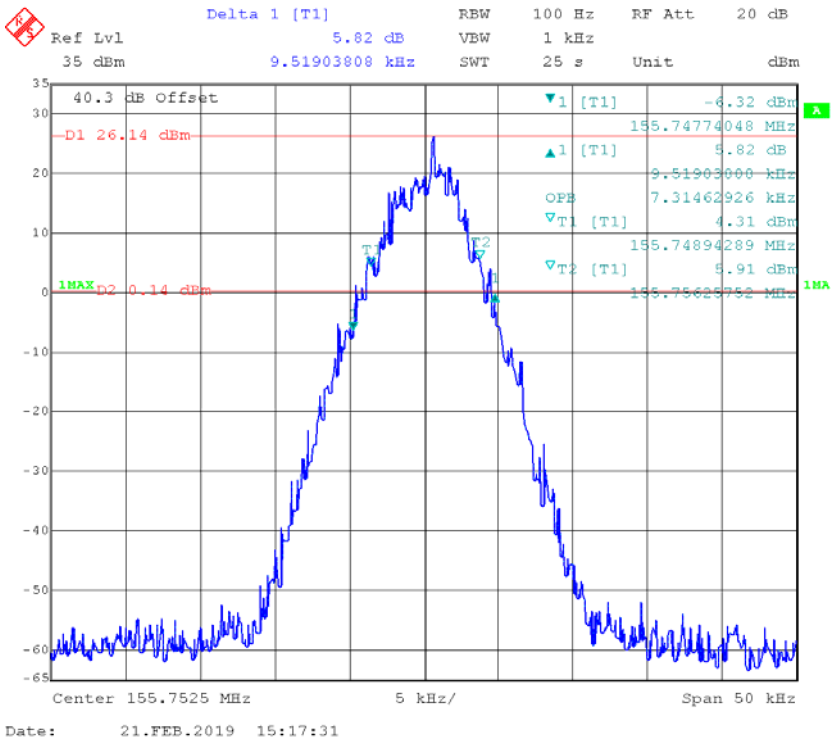


4FSK,12.5kHz,Low Power - Frequency 155.7525 MHz: 99% Occupied & 26 dB Bandwidth



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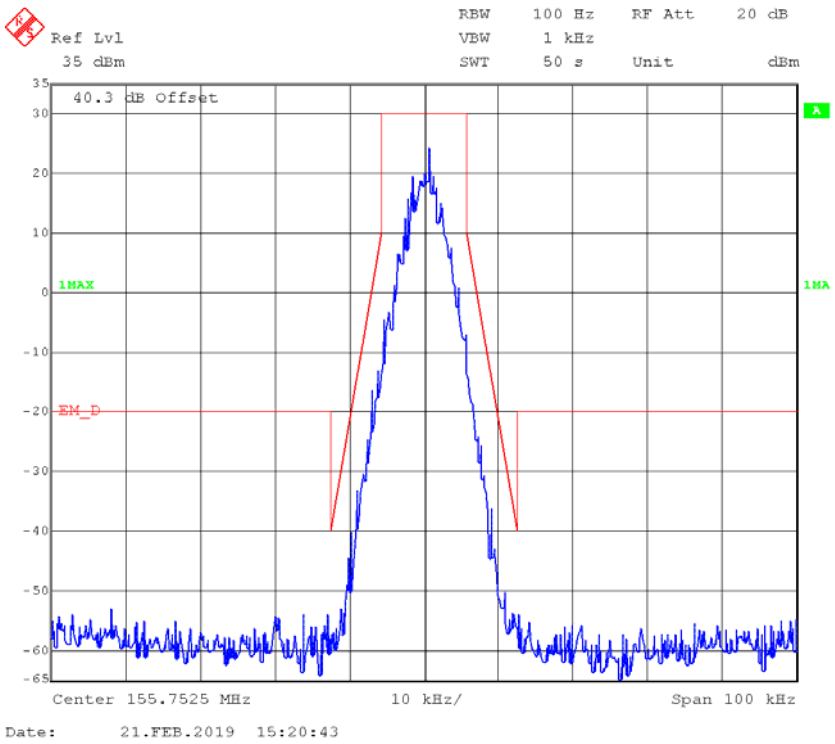
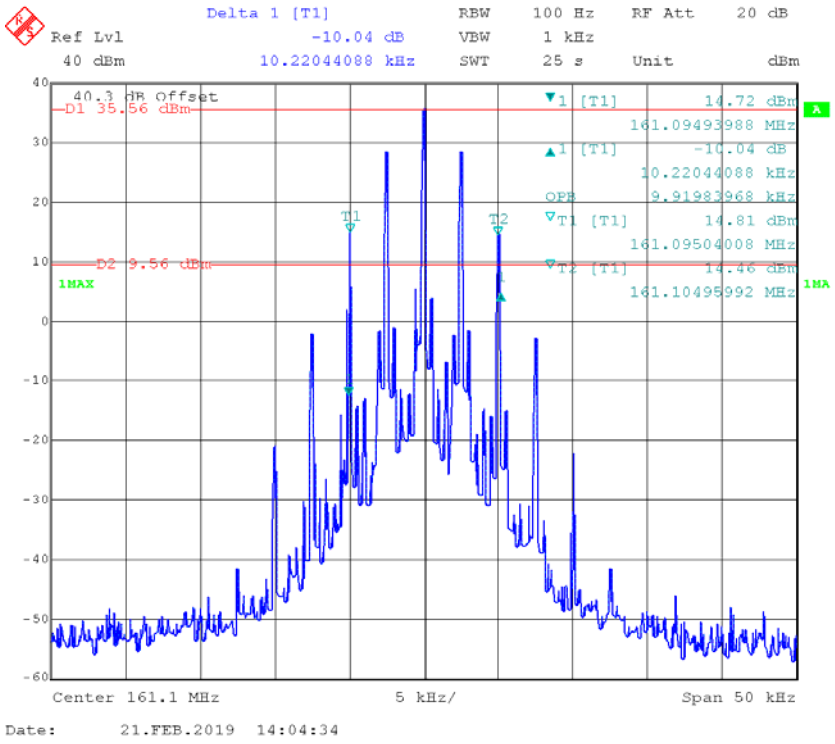
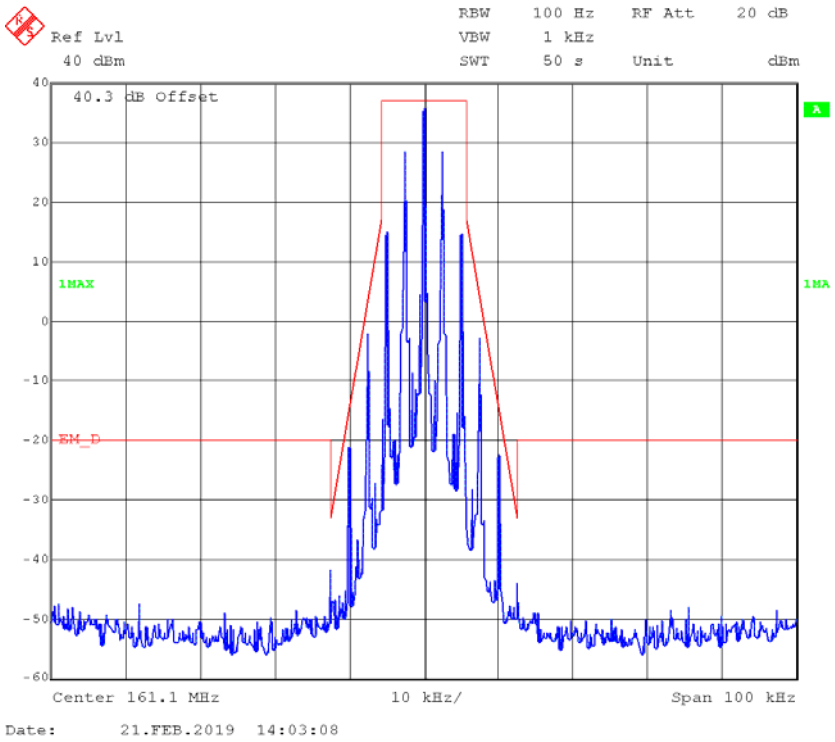


Part 74

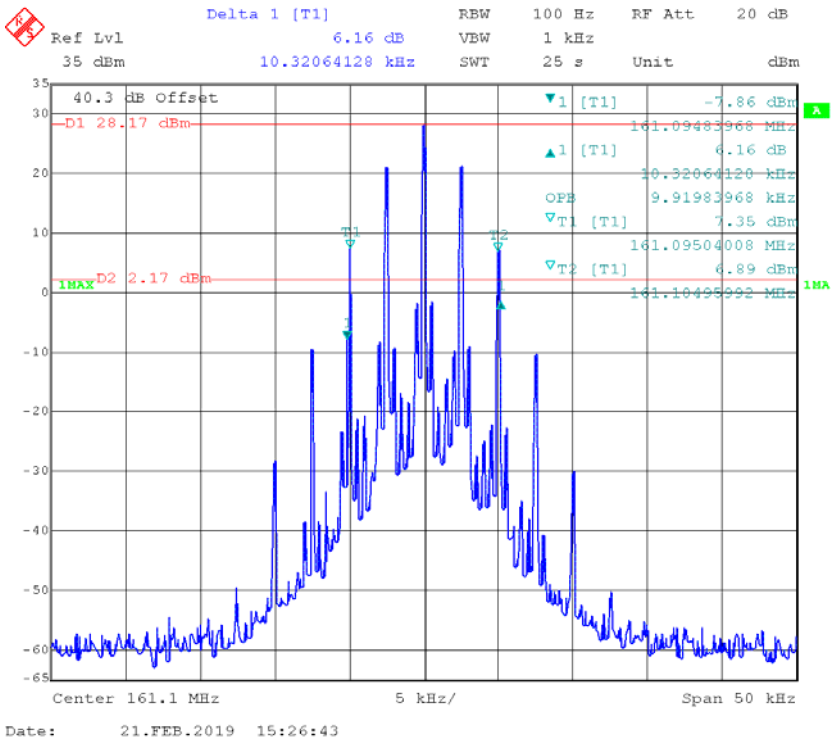
FM,12.5kHz,High Power - Frequency 161.1 MHz: 99% Occupied & 26 dB Bandwidth



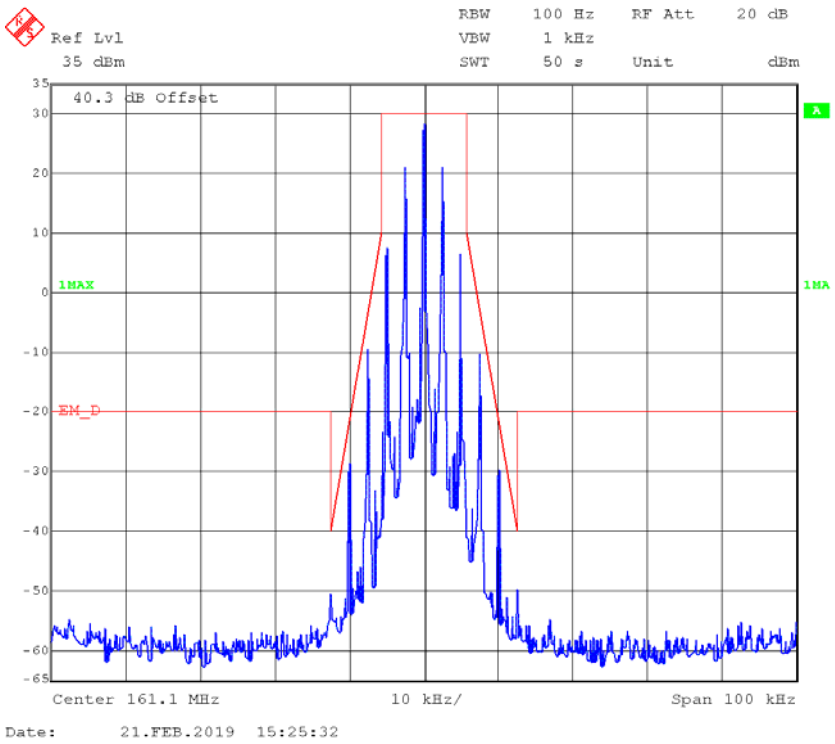
Emission Mask D



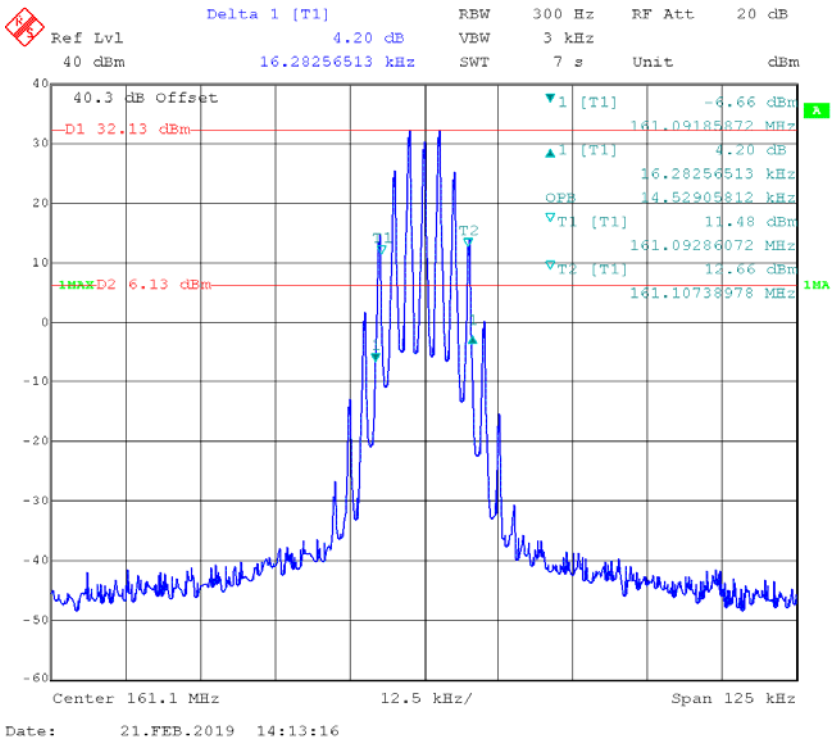
FM,12.5kHz,Low Power - Frequency 161.1 MHz: 99% Occupied & 26 dB Bandwidth



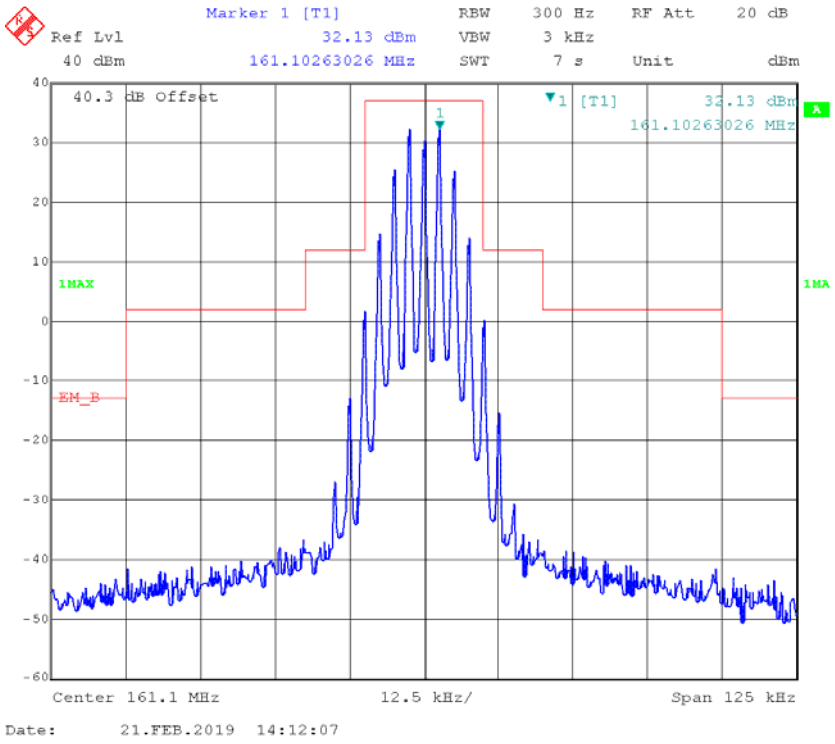
Emission Mask D



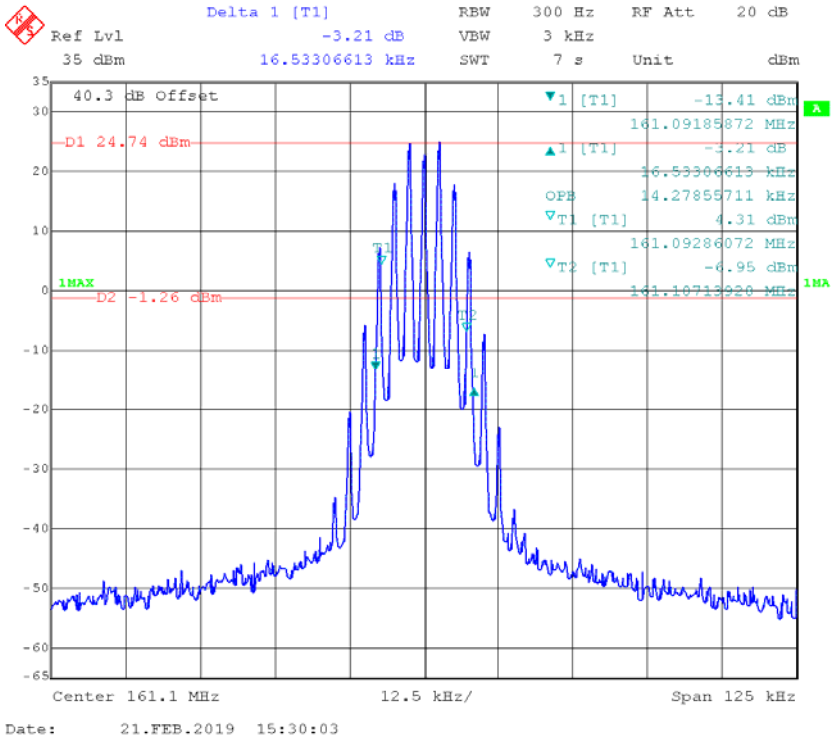
FM,25kHz,High Power - Frequency 161.1 MHz: 99% Occupied & 26 dB Bandwidth



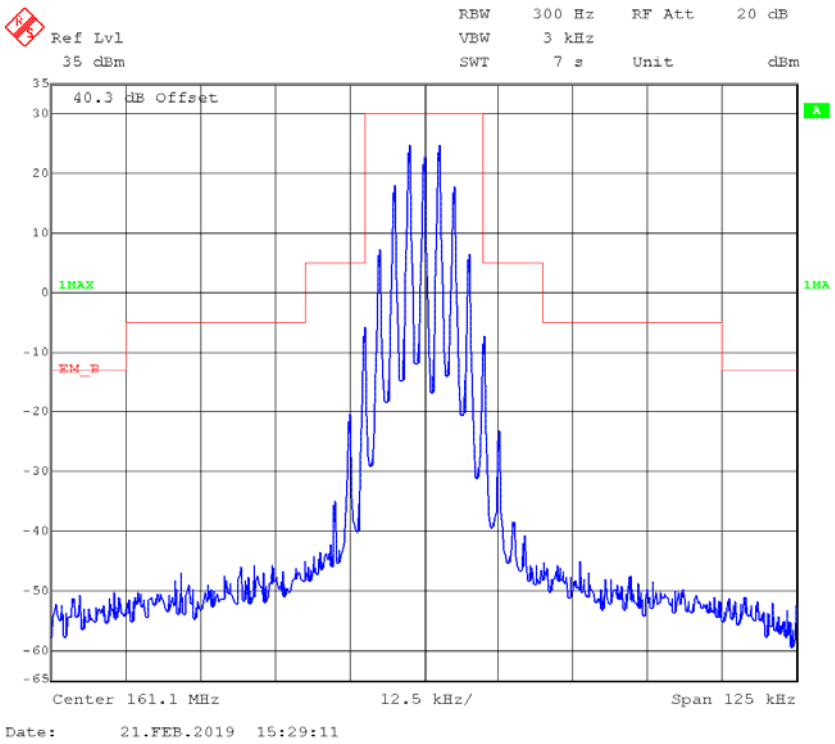
Emission Mask B



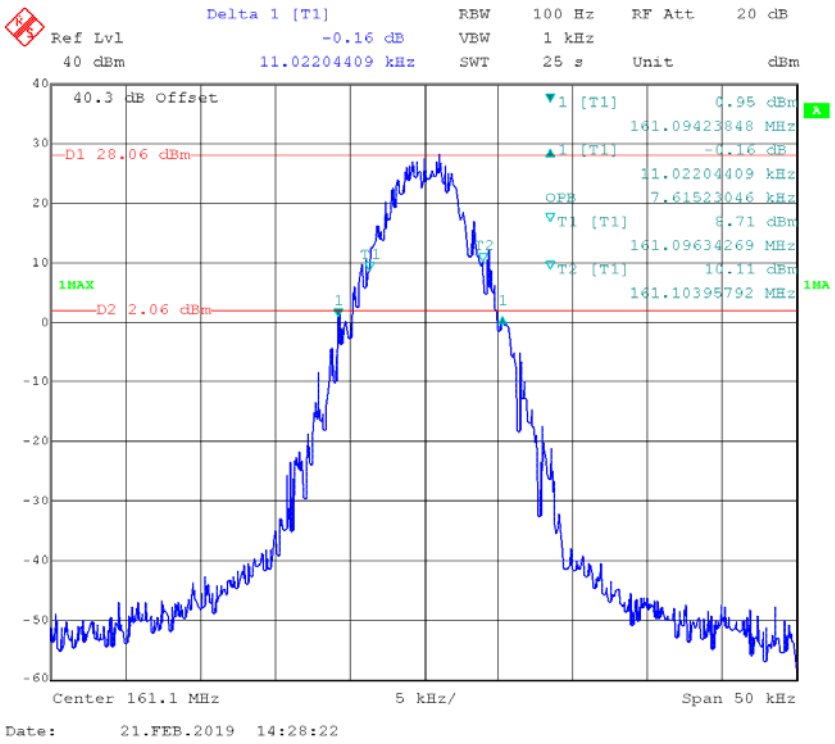
FM,25kHz,Low Power - Frequency 161.1 MHz: 99% Occupied & 26 dB Bandwidth



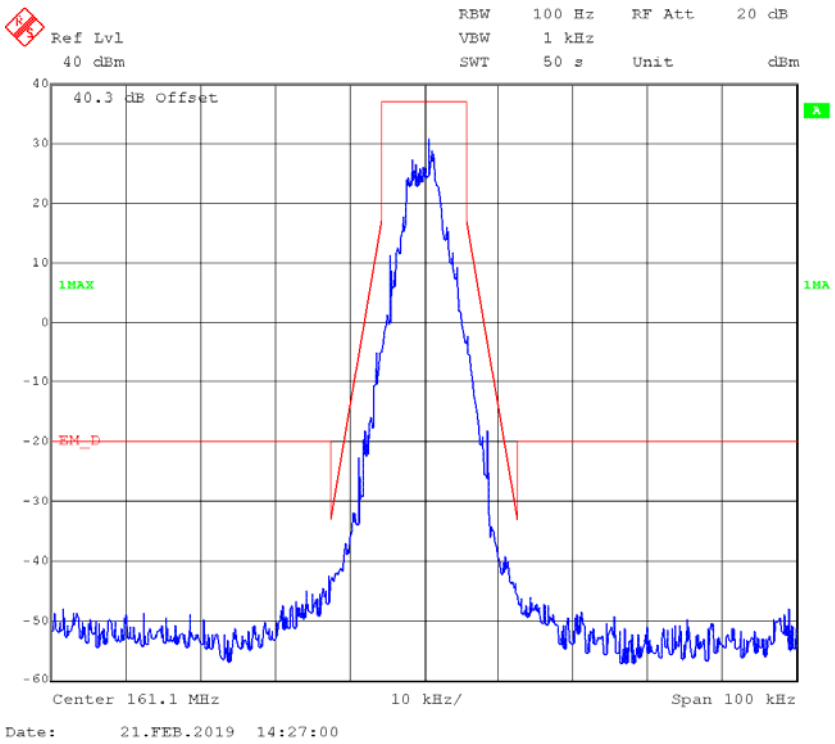
Emission Mask B



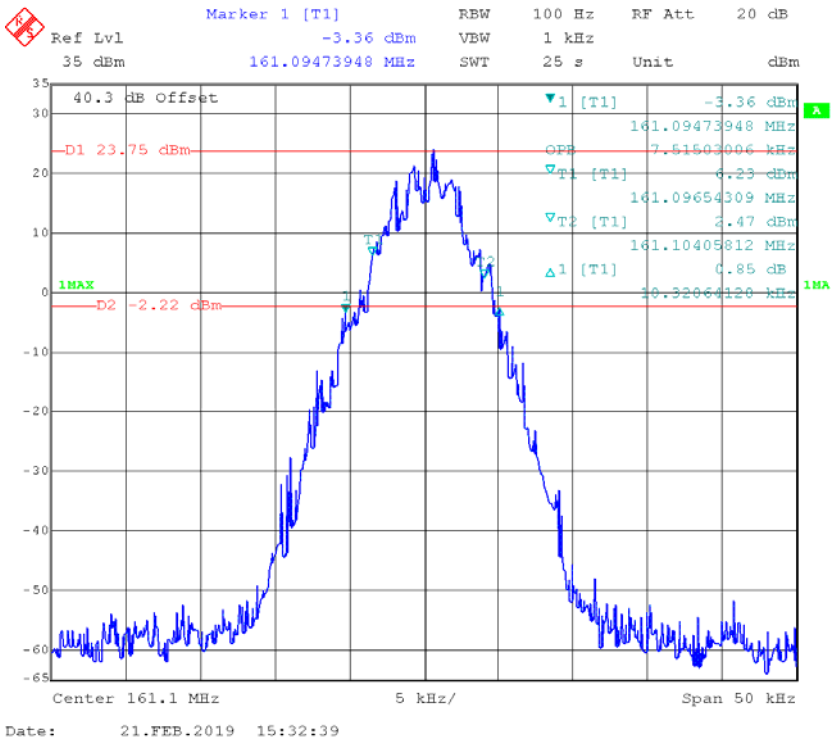
4FSK,12.5kHz,High Power - Frequency 161.1 MHz: 99% Occupied & 26 dB Bandwidth



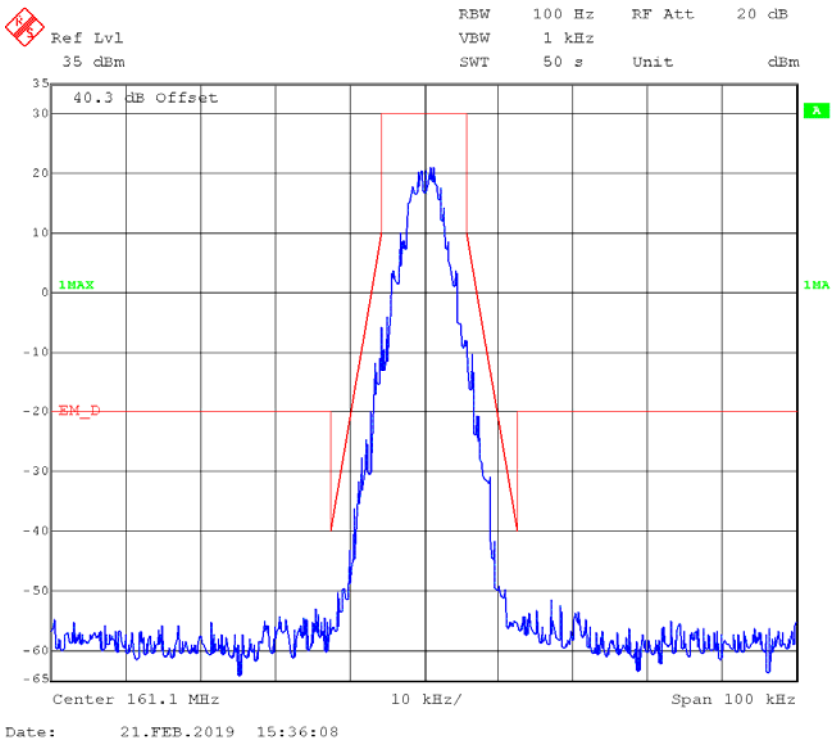
Emission Mask D



4FSK,12.5kHz,Low Power - Frequency 161.1 MHz: 99% Occupied & 26 dB Bandwidth

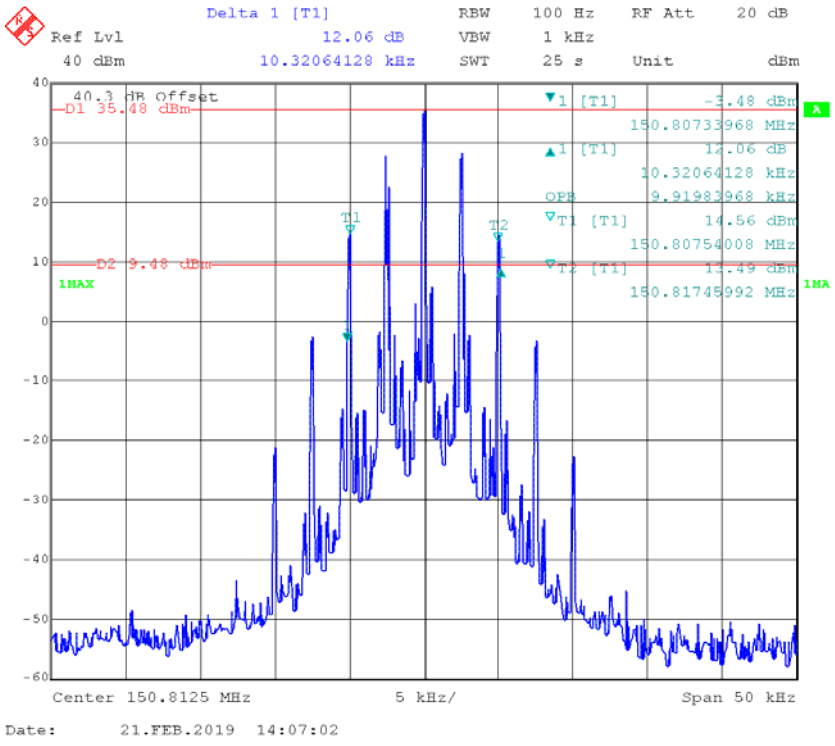


Emission Mask D

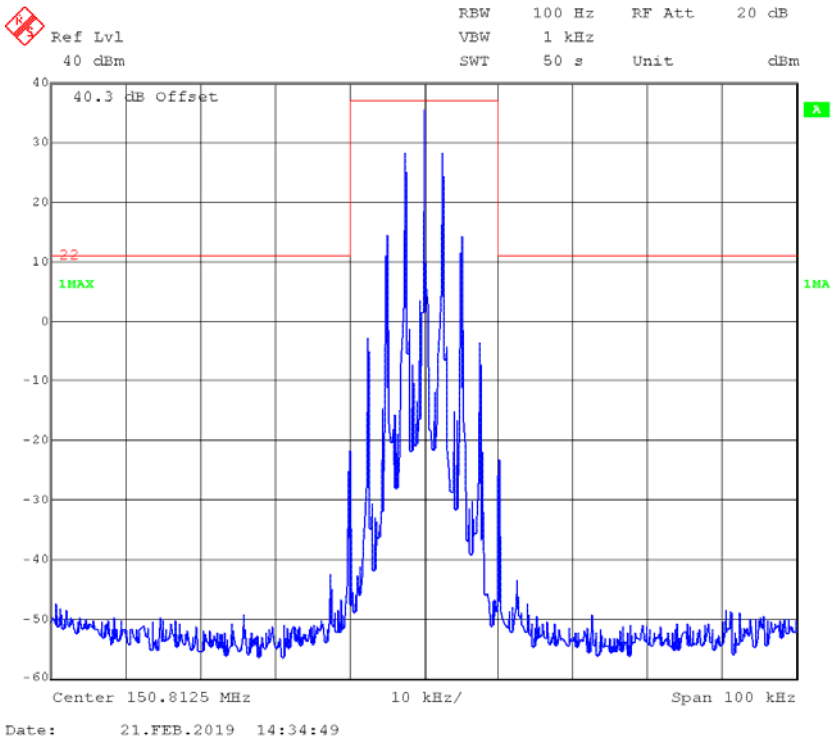


Part 22

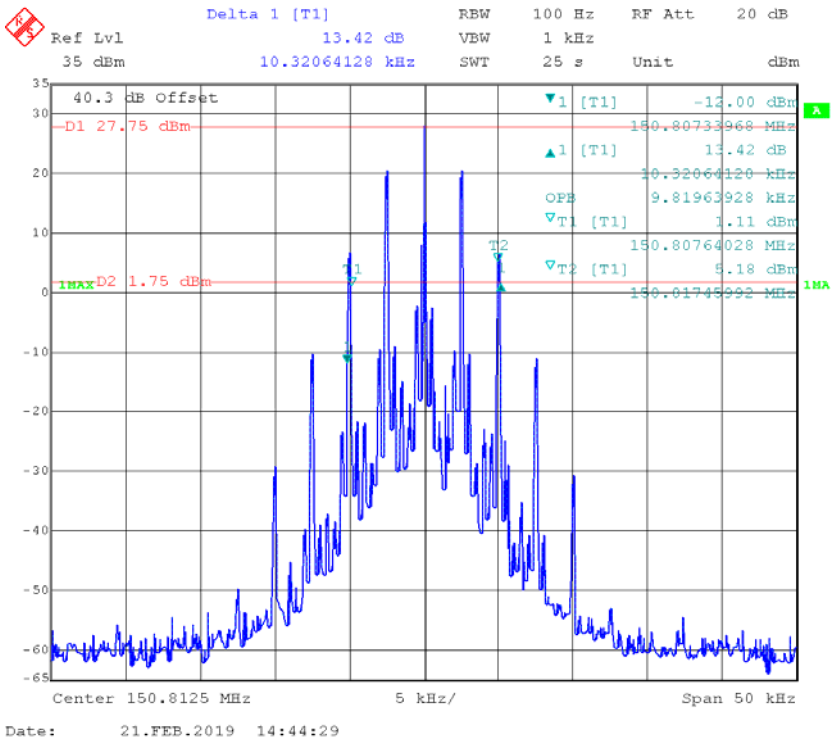
FM,12.5kHz,High Power - Frequency 150.8125 MHz: 99% Occupied & 26 dB Bandwidth



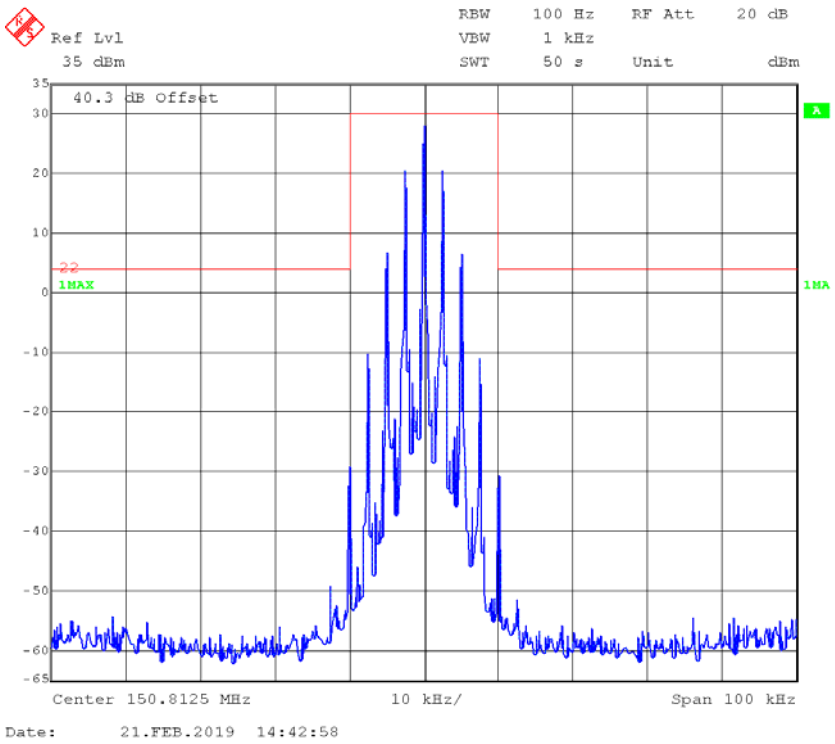
Emission Mask-§22.359



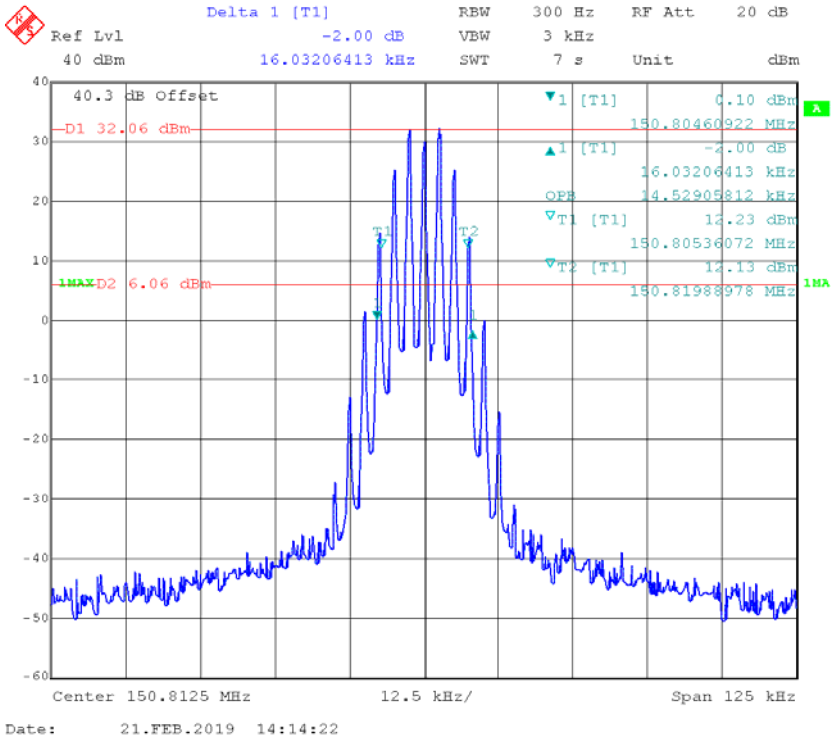
FM,12.5kHz,Low Power - Frequency 150.8125 MHz: 99% Occupied & 26 dB Bandwidth



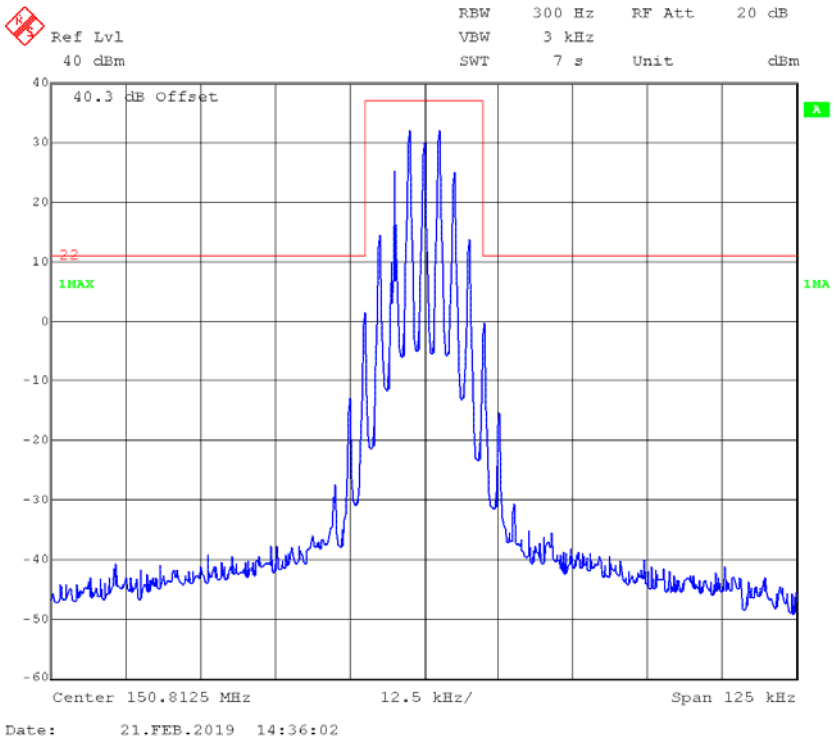
Emission Mask-§22.359



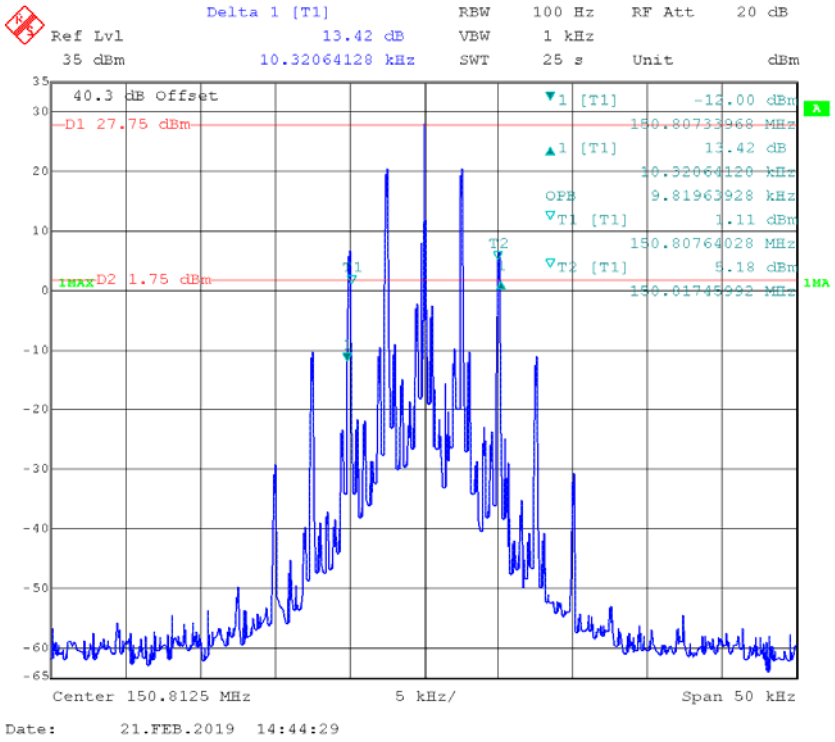
FM,25kHz,High Power - Frequency 150.8125 MHz: 99% Occupied & 26 dB Bandwidth



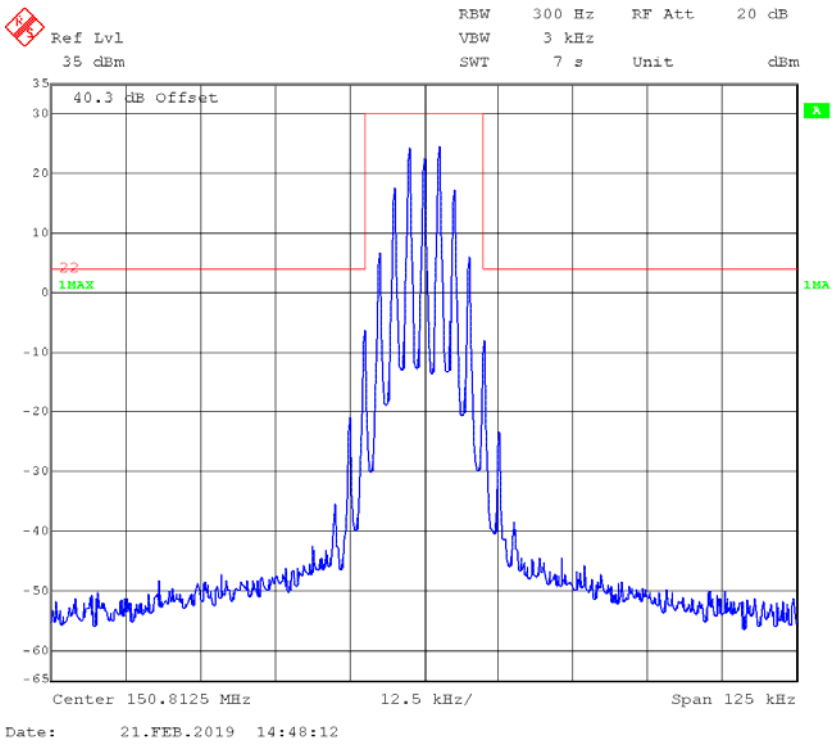
Emission Mask-§22.359



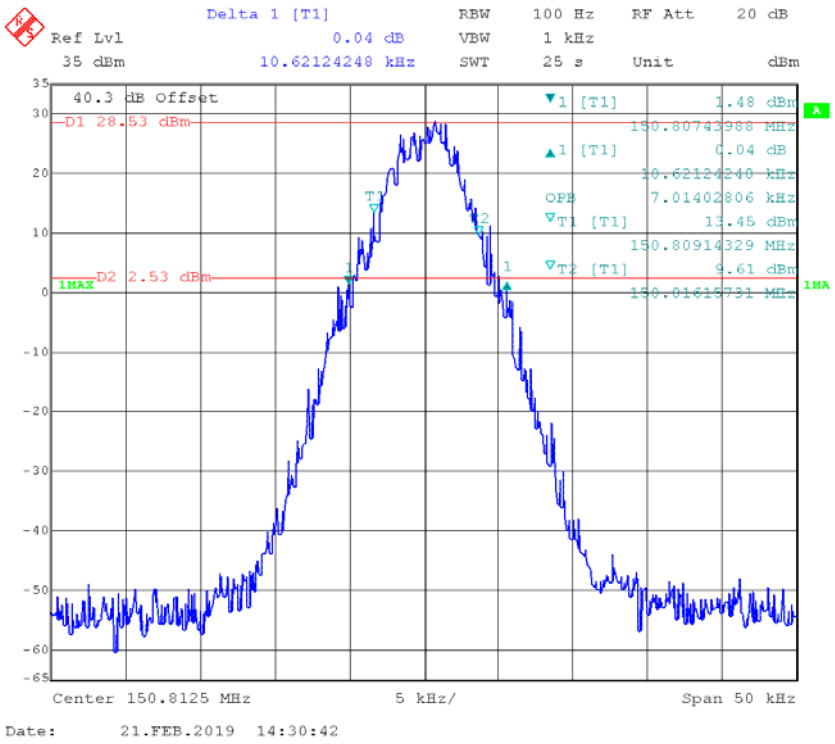
FM,25kHz,Low Power - Frequency 150.8125 MHz: 99% Occupied & 26 dB Bandwidth



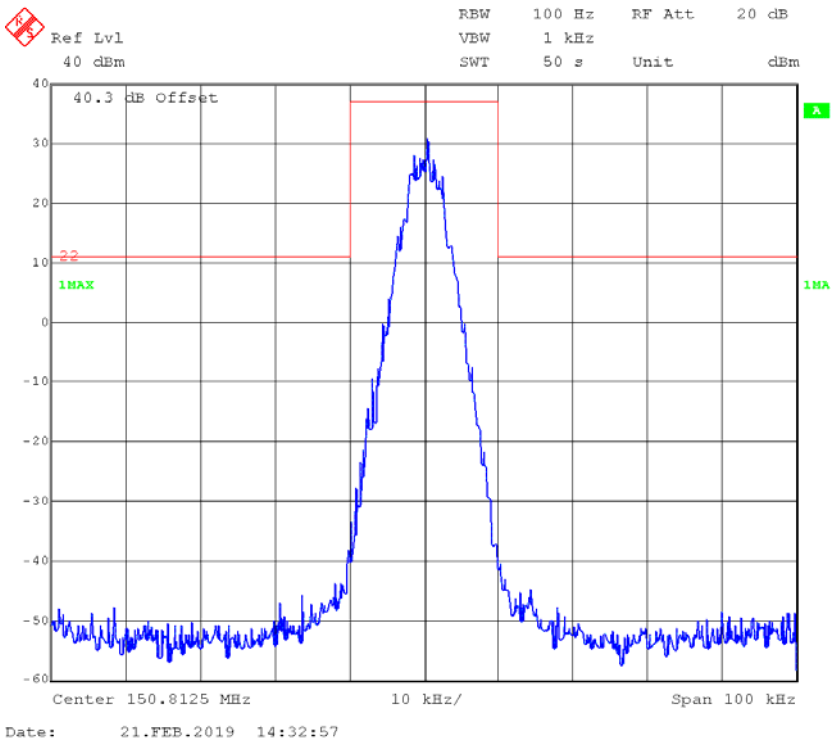
Emission Mask -§22.359



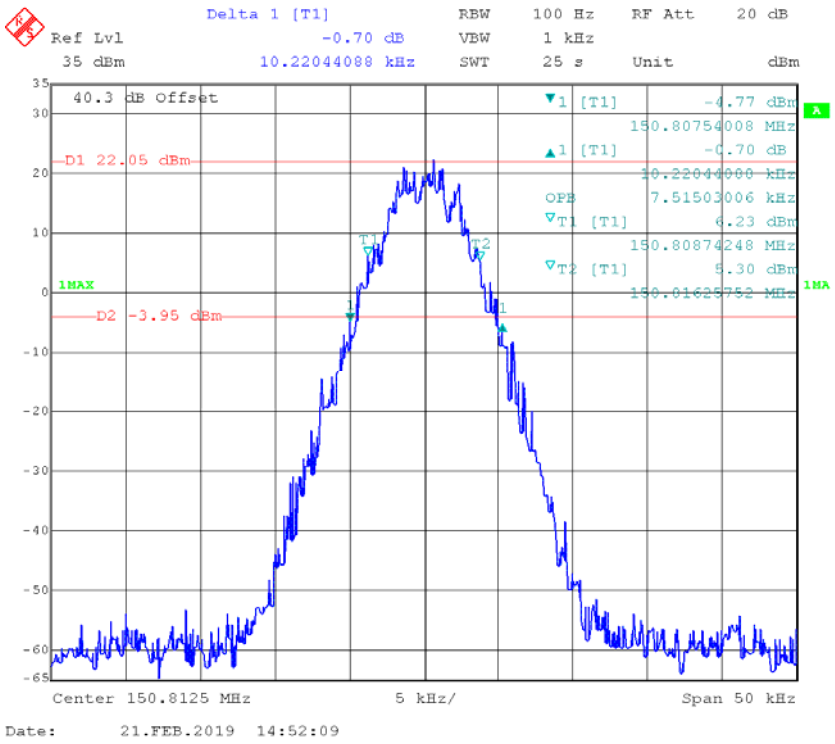
4FSK,12.5kHz,High Power - Frequency 150.8125 MHz: 99% Occupied & 26 dB Bandwidth



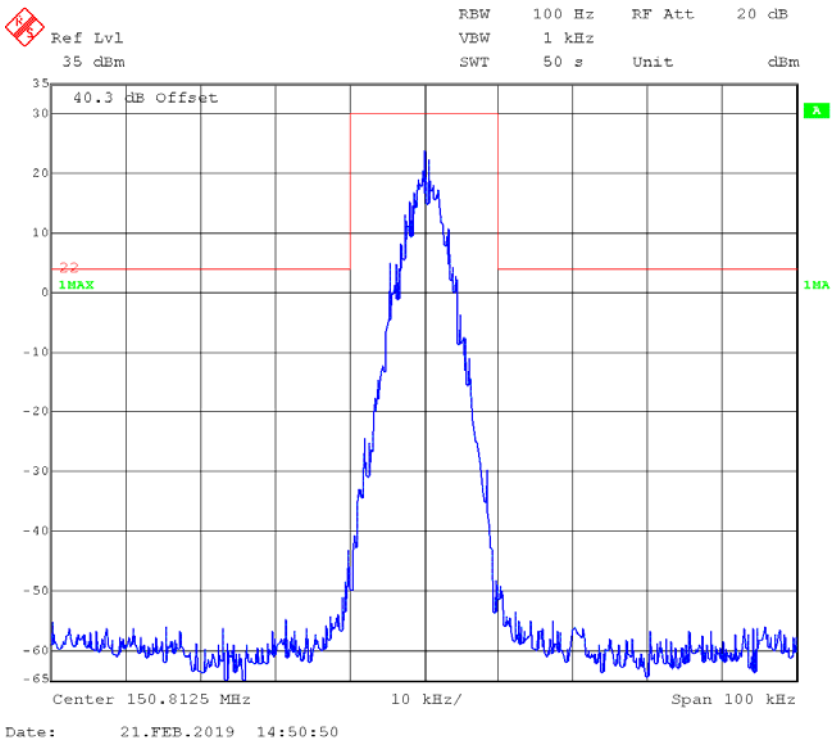
Emission Mask - §22.359



4FSK,12.5kHz,Low Power - Frequency 150.8125 MHz: 99% Occupied & 26 dB Bandwidth



Emission Mask - §22.359



FCC §2.1051 & §22.861 & §74.462 & §90.210 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standard

FCC §2.1051, §22.861, §74.462 and §90.210

Test Procedure

The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100kHz for below 1GHz, and 1MHz for above 1GHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.

Test Data

Environmental Conditions

Temperature:	25.1℃
Relative Humidity:	59 %
ATM Pressure:	100.1 kPa

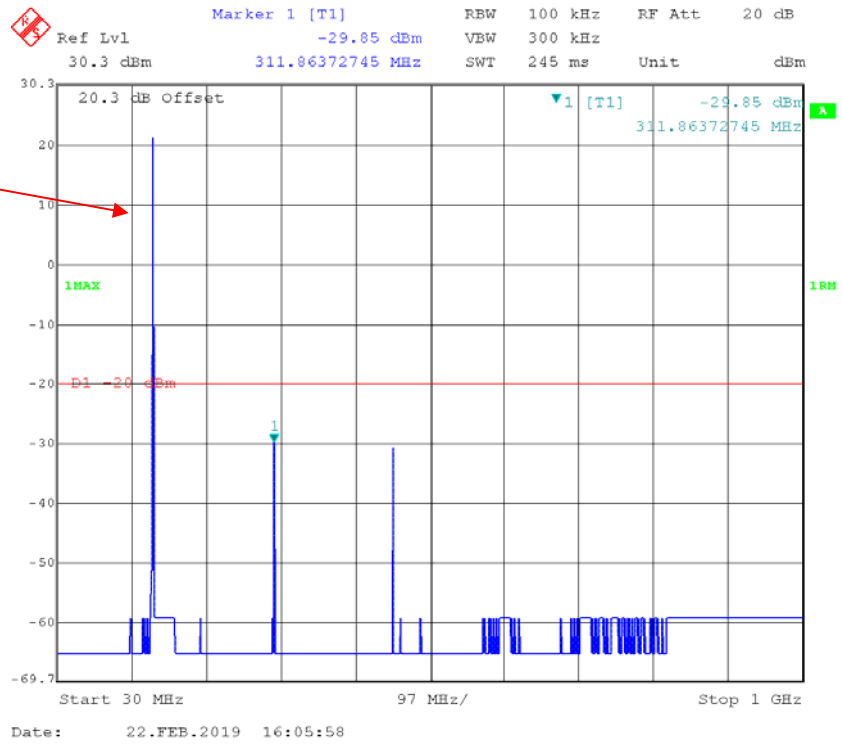
The testing was performed by Andy Huang on 2019-02-22.

Test Mode: Transmitting

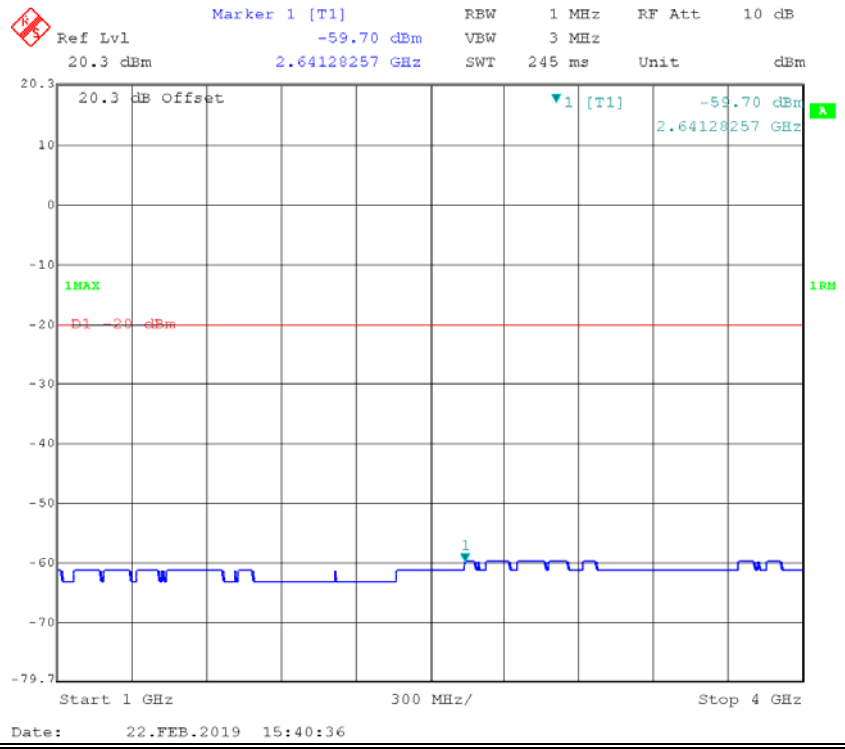
Part 90,
12.5kHz,FM, High power:

30MHz – 1 GHz, Channel Spacing 12.5 kHz, 155.7525 MHz

Fund.test

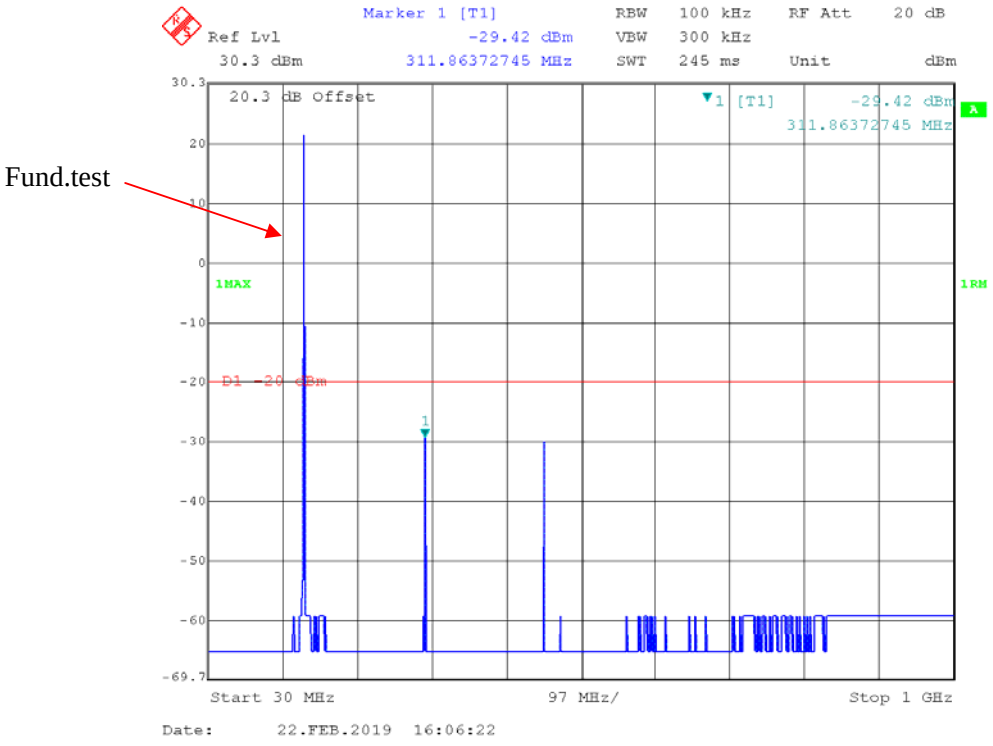


1 GHz – 4 GHz, Channel Spacing 12.5 kHz, 155.7525 MHz

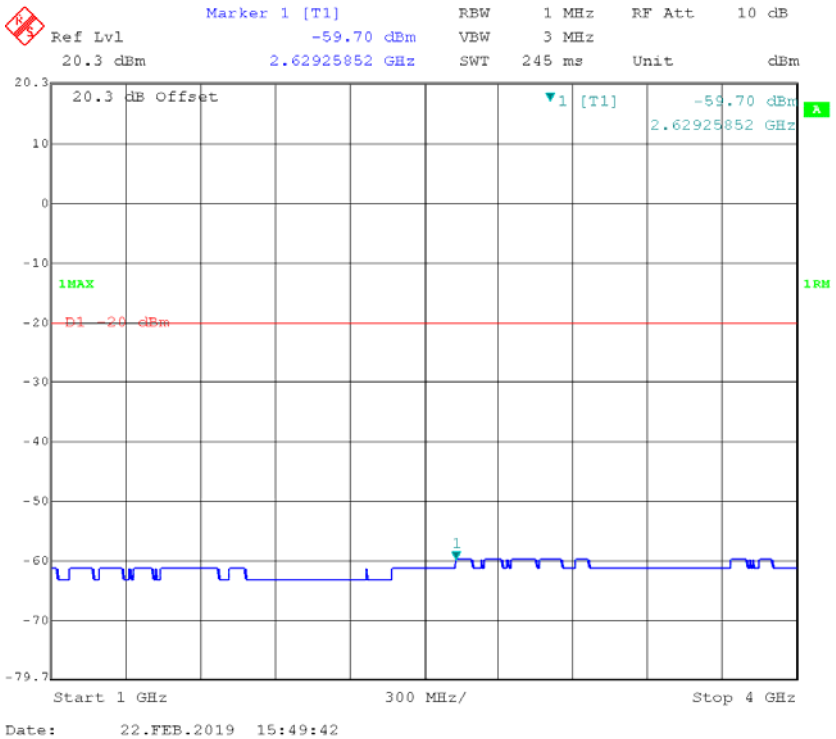


12.5kHz, 4FSK, High power:

30MHz – 1 GHz, Channel Spacing 12.5 kHz, 155.7525 MHz



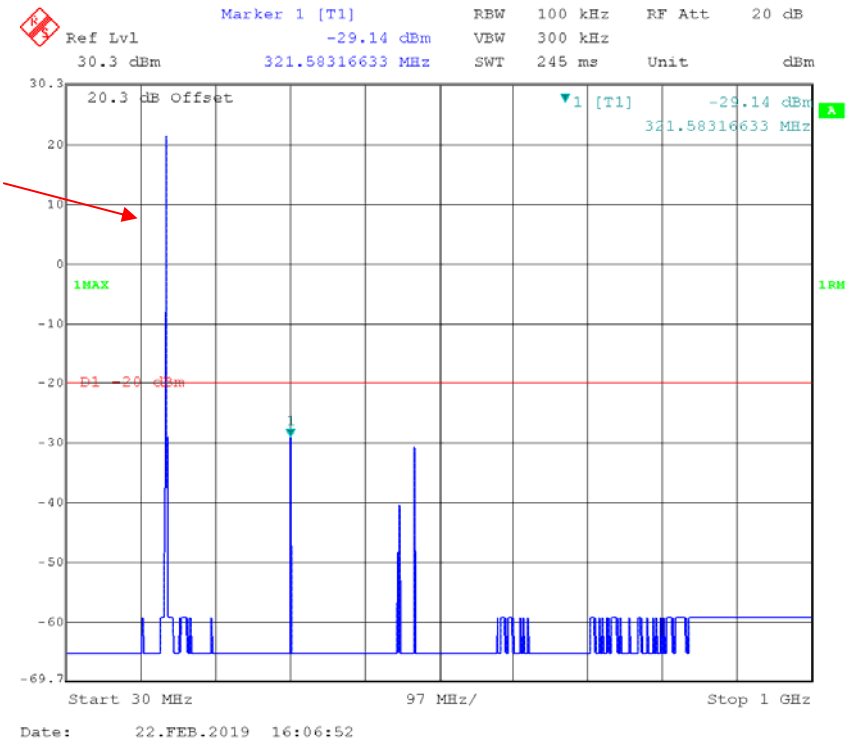
1 GHz – 4 GHz, Channel Spacing 12.5 kHz, 155.7525 MHz



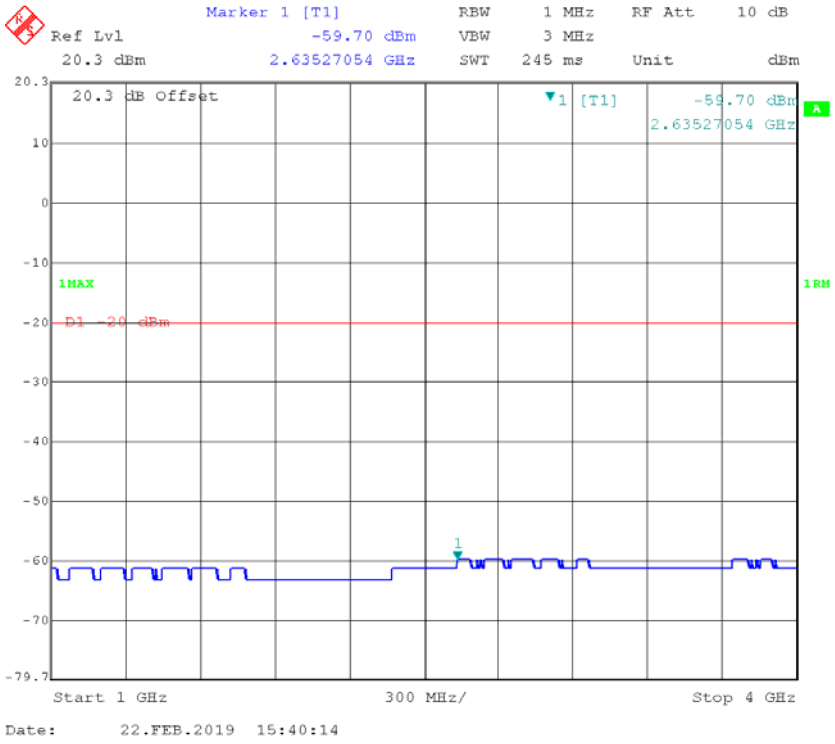
Part 74,
12.5kHz, FM, High power:

30MHz – 1 GHz, Channel Spacing 12.5 kHz, 161.1 MHz

Fund.test



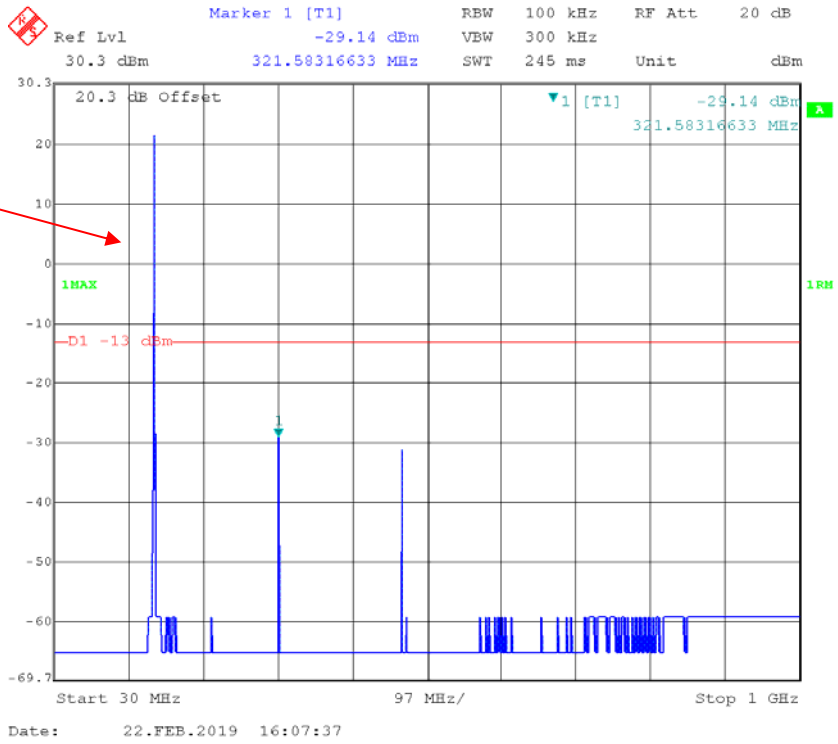
1 GHz – 4 GHz, Channel Spacing 12.5 kHz, 161.1 MHz



25kHz, FM, High power:

30MHz – 1 GHz, Channel Spacing 25 kHz, 161.1 MHz

Fund.test

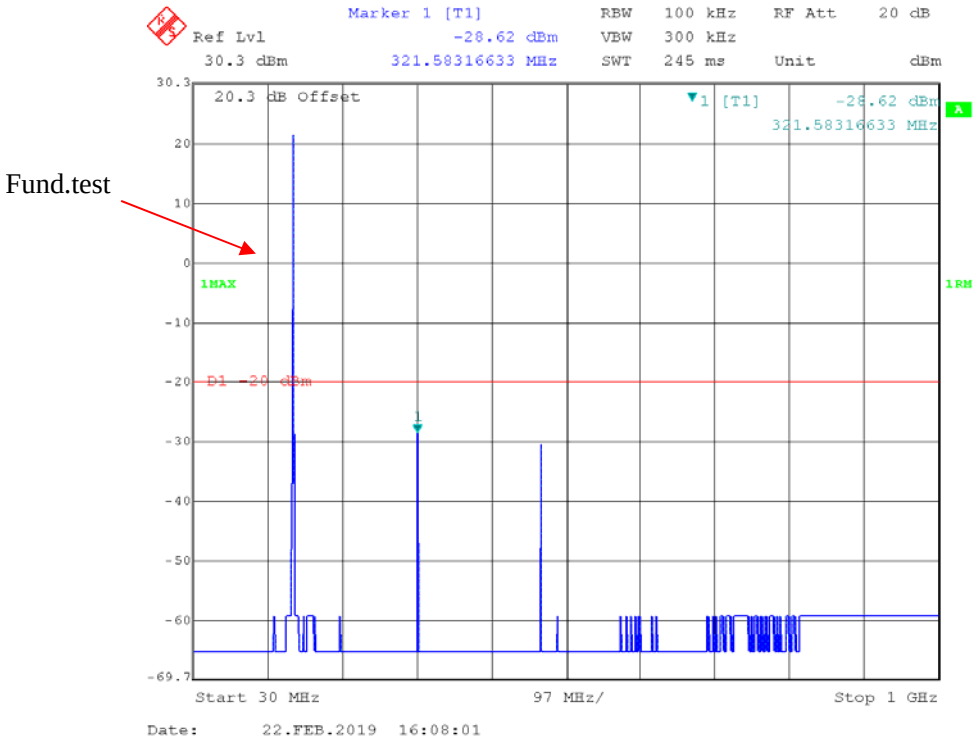


1 GHz – 4 GHz, Channel Spacing 25 kHz, 161.1 MHz

12.5kHz, 4FSK, High power:

30MHz – 1 GHz, Channel Spacing 12.5 kHz, 161.1 MHz

Fund.test

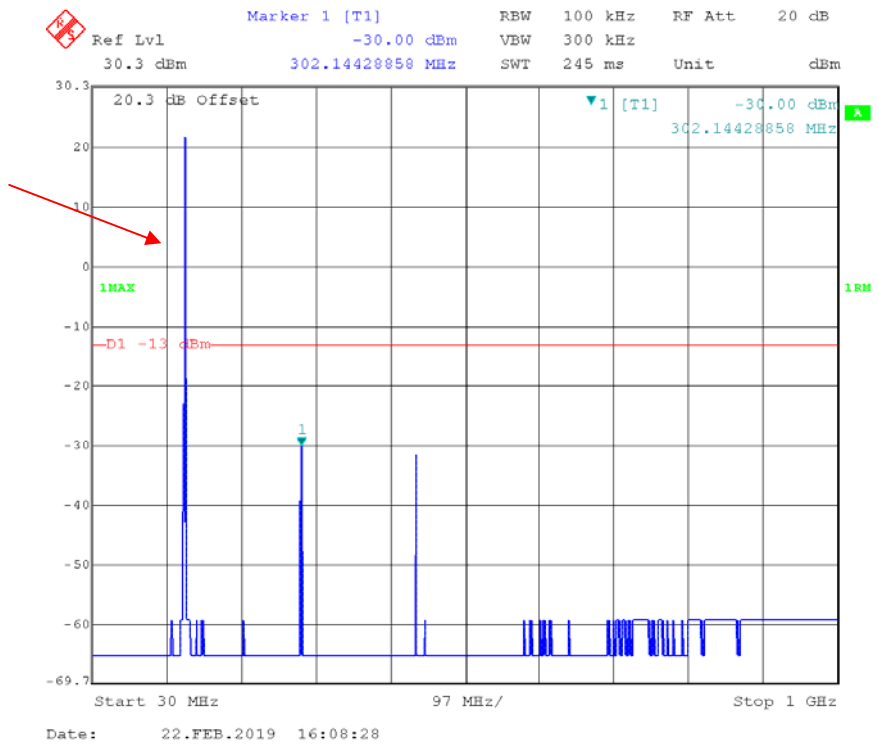


1 GHz – 4 GHz, Channel Spacing 12.5 kHz, 161.1 MHz

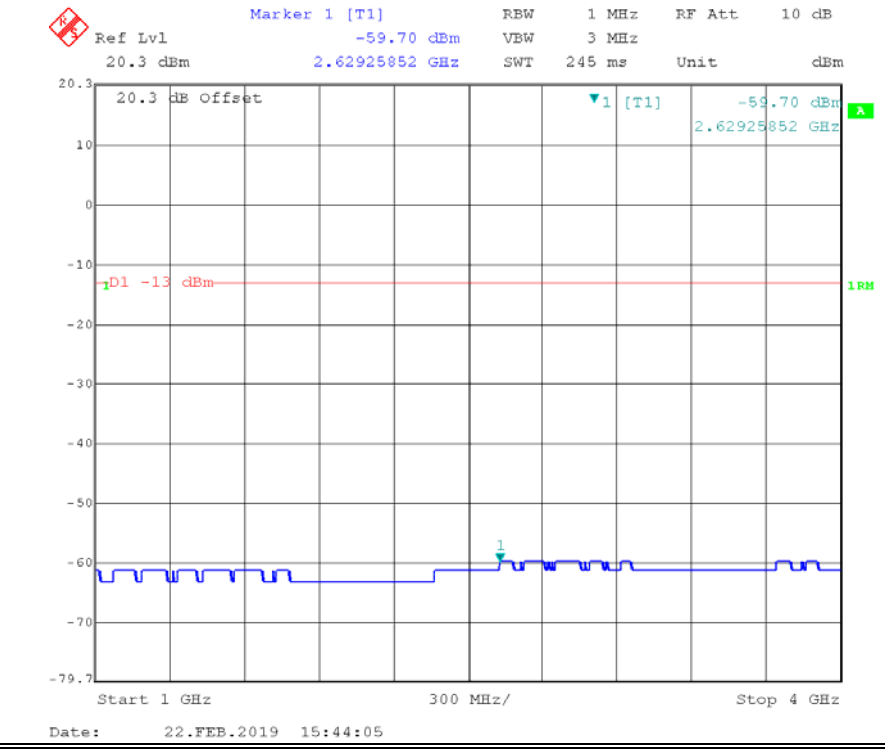
Part 22,
12.5kHz,FM, High power:

30MHz – 1 GHz, Channel Spacing 12.5 kHz, 150.8125 MHz

Fund.test



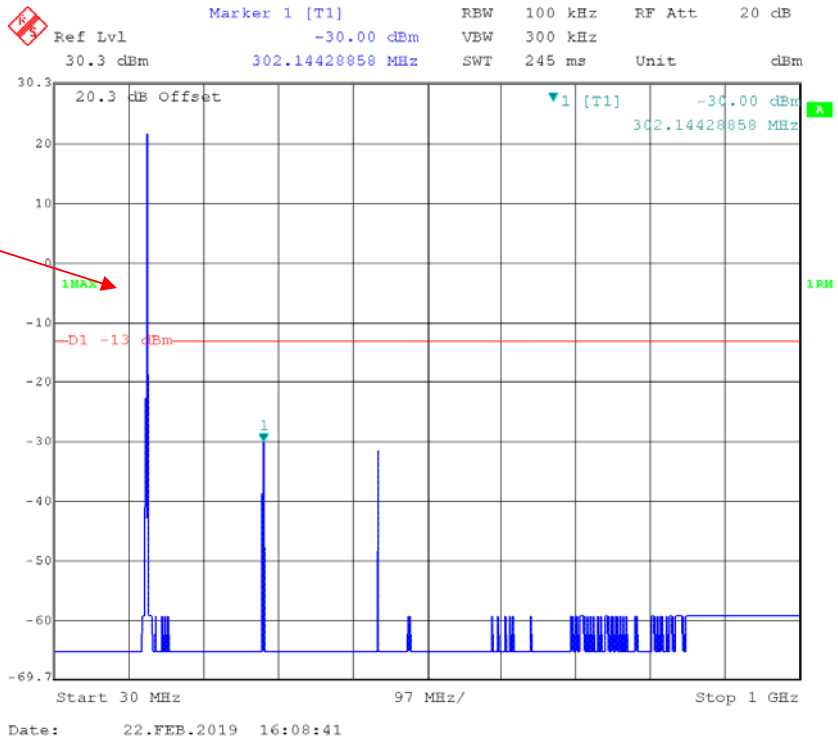
1 GHz – 4 GHz, Channel Spacing 12.5 kHz, 150.8125 MHz



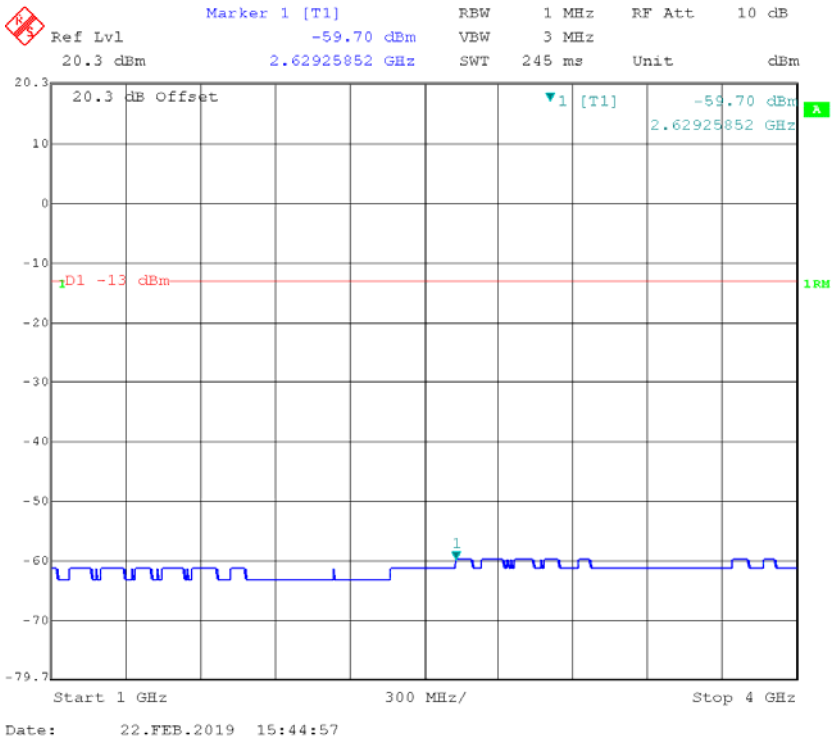
25kHz,FM, High power:

30MHz – 1 GHz, Channel Spacing 25 kHz, 150.8125 MHz

Fund.test

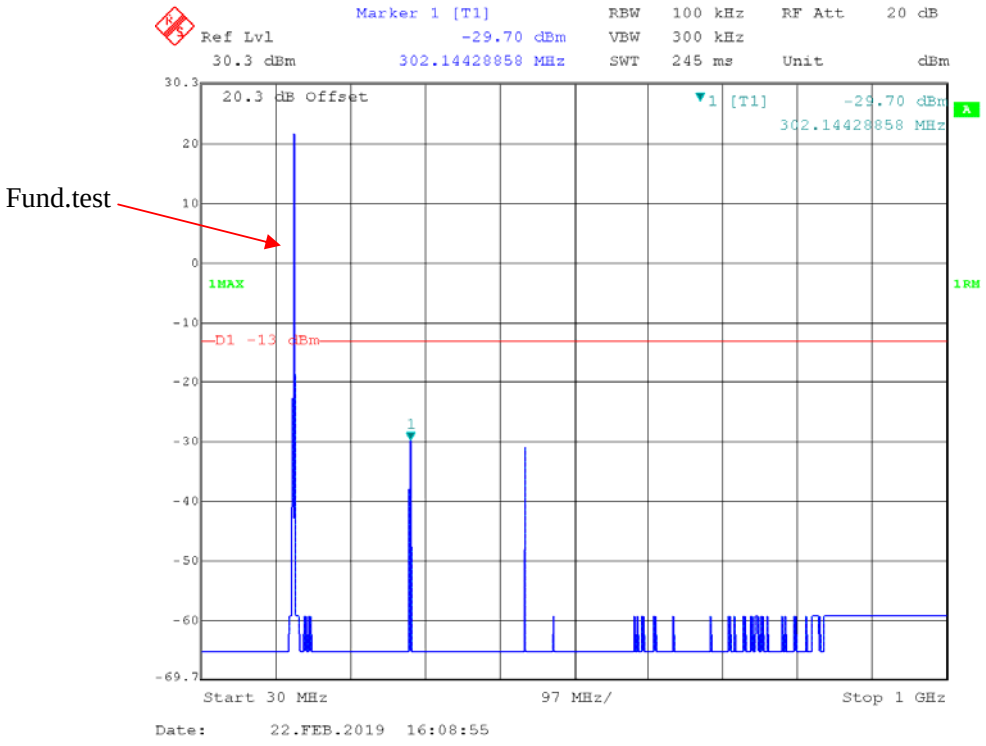


1 GHz – 4 GHz, Channel Spacing 25 kHz, 150.8125 MHz

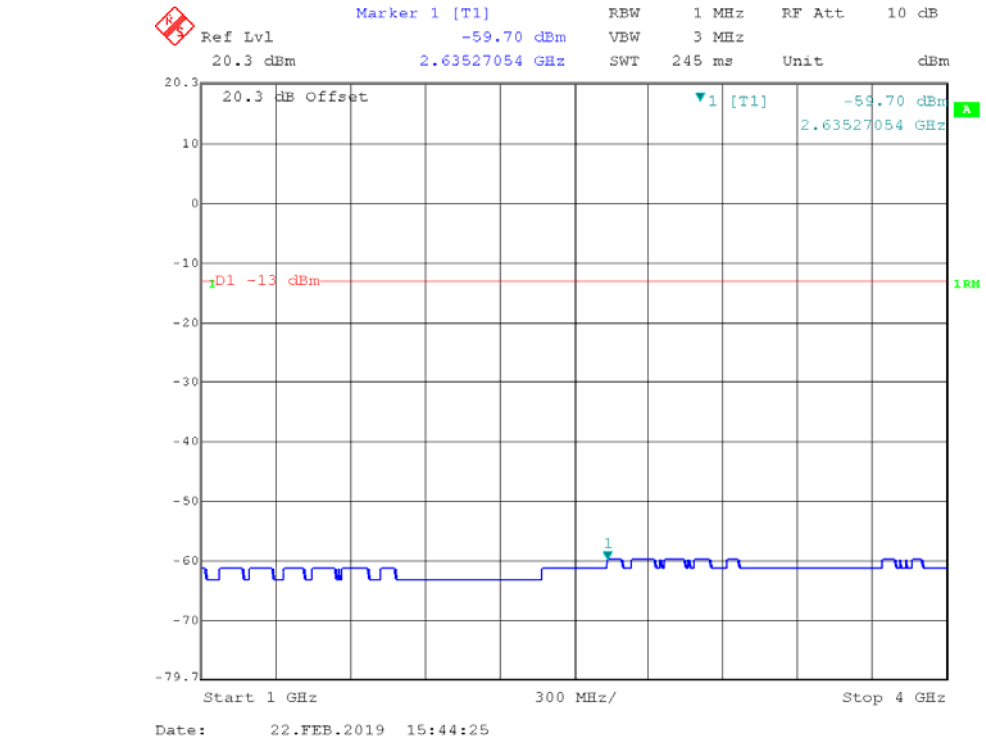


12.5kHz, 4FSK, High power:

30MHz – 1 GHz, Channel Spacing 12.5 kHz, 150.8125 MHz



1 GHz – 4 GHz, Channel Spacing 12.5 kHz, 150.8125 MHz



FCC §2.1053; §22.861; §74.462 & §90.210 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

FCC §2.1053, §90.210

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT .The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to teeth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB =10 1g (TXpwr in Watts/0.001)-the absolute level

Spurious attenuation limit in dB =43+10 Log_{10} (power out in Watts) for EUT with a 12.5 kHz channel bandwidth.

Test Data

Environmental Conditions

Temperature:	22.1~23.8 ℃
Relative Humidity:	52 ~ 58 %
ATM Pressure:	100.5 kPa

The testing was performed by Vern Shen & Neil Liao on 2019-02-20 & 2019-02-25.

*Test Mode: Transmitting(*T03-00303-BCAA was the worst and reported*)*

30MHz - 2GHz:

Part 90

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
FM,Frequency: 155.7525MHz-12.5 kHz								
311.5050	H	38.49	-69.71	0.00	0.53	-70.24	-20.00	50.24
311.5050	V	43.44	-66.33	0.00	0.53	-66.86	-20.00	46.86
467.2575	H	38.07	-66.35	0.00	0.68	-67.03	-20.00	47.03
467.2575	V	40.25	-67.31	0.00	0.68	-67.99	-20.00	47.99
623.0100	H	48.49	-53.48	0.00	0.80	-54.28	-20.00	34.28
623.0100	V	46.94	-58.11	0.00	0.80	-58.91	-20.00	38.91
778.7625	H	37.63	-61.61	0.00	0.93	-62.54	-20.00	42.54
778.7625	V	32.09	-70.64	0.00	0.93	-71.57	-20.00	51.57
934.5150	H	35.62	-60.08	0.00	0.94	-61.02	-20.00	41.02
934.5150	V	34.34	-63.13	0.00	0.94	-64.07	-20.00	44.07
1090.2675	H	48.48	-65.04	7.45	0.99	-58.58	-20.00	38.58
1090.2675	V	50.68	-63.26	7.45	0.99	-56.80	-20.00	36.80
1246.0200	H	47.21	-65.85	7.76	1.14	-59.23	-20.00	39.23
1246.0200	V	54.36	-59.71	7.76	1.14	-53.09	-20.00	33.09
1401.7725	H	47.15	-66.09	9.01	1.20	-58.28	-20.00	38.28
1401.7725	V	52.34	-61.49	9.01	1.20	-53.68	-20.00	33.68
1557.5250	H	47.26	-67.71	9.85	0.96	-58.82	-20.00	38.82
1557.5250	V	46.53	-68.83	9.85	0.96	-59.94	-20.00	39.94

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
4FSK,Frequency: 155.7525MHz-12.5 kHz								
311.5050	H	38.89	-69.31	0.00	0.53	-69.84	-20.00	49.84
311.5050	V	44.71	-65.06	0.00	0.53	-65.59	-20.00	45.59
467.2575	H	40.72	-63.70	0.00	0.68	-64.38	-20.00	44.38
467.2575	V	44.92	-62.64	0.00	0.68	-63.32	-20.00	43.32
623.0100	H	49.26	-52.71	0.00	0.80	-53.51	-20.00	33.51
623.0100	V	48.23	-56.82	0.00	0.80	-57.62	-20.00	37.62
778.7625	H	36.72	-62.52	0.00	0.93	-63.45	-20.00	43.45
778.7625	V	32.79	-69.94	0.00	0.93	-70.87	-20.00	50.87
934.5150	H	36.90	-58.80	0.00	0.94	-59.74	-20.00	39.74
934.5150	V	37.29	-60.18	0.00	0.94	-61.12	-20.00	41.12
1090.2675	H	47.00	-66.52	7.45	0.99	-60.06	-20.00	40.06
1090.2675	V	49.67	-64.27	7.45	0.99	-57.81	-20.00	37.81
1246.0200	H	46.57	-66.49	7.76	1.14	-59.87	-20.00	39.87
1246.0200	V	52.08	-61.99	7.76	1.14	-55.37	-20.00	35.37
1401.7725	H	46.86	-66.38	9.01	1.20	-58.57	-20.00	38.57
1401.7725	V	53.61	-60.22	9.01	1.20	-52.41	-20.00	32.41
1557.5250	H	46.36	-68.61	9.85	0.96	-59.72	-20.00	39.72
1557.5250	V	51.71	-63.65	9.85	0.96	-54.76	-20.00	34.76

Part 74

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
FM, Frequency: 161.1MHz-12.5 kHz								
322.2	H	39.57	-68.22	0.00	0.54	-68.76	-20.00	48.76
322.2	V	47.64	-61.94	0.00	0.54	-62.48	-20.00	42.48
483.3	H	37.79	-66.54	0.00	0.69	-67.23	-20.00	47.23
483.3	V	40.11	-67.30	0.00	0.69	-67.99	-20.00	47.99
644.4	H	45.22	-56.60	0.00	0.84	-57.44	-20.00	37.44
644.4	V	43.26	-61.47	0.00	0.84	-62.31	-20.00	42.31
805.5	H	36.72	-61.85	0.00	0.94	-62.79	-20.00	42.79
805.5	V	32.85	-69.38	0.00	0.94	-70.32	-20.00	50.32
966.6	H	41.12	-53.25	0.00	0.84	-54.09	-20.00	34.09
966.6	V	39.59	-56.32	0.00	0.84	-57.16	-20.00	37.16
1127.7	H	46.41	-66.84	7.37	1.04	-60.51	-20.00	40.51
1127.7	V	49.97	-63.87	7.37	1.04	-57.54	-20.00	37.54
1288.8	H	47.34	-66.15	8.19	1.18	-59.14	-20.00	39.14
1288.8	V	53.58	-60.83	8.19	1.18	-53.82	-20.00	33.82
1449.9	H	48.98	-65.22	9.25	1.27	-57.24	-20.00	37.24
1449.9	V	49.03	-65.52	9.25	1.27	-57.54	-20.00	37.54
1611.0	H	46.36	-68.35	10.18	0.69	-58.86	-20.00	38.86
1611.0	V	48.19	-67.12	10.18	0.69	-57.63	-20.00	37.63
4FSK,Frequency: 161.1MHz-12.5 kHz								
322.2	H	40.24	-67.55	0.00	0.54	-68.09	-20.00	48.09
322.2	V	47.92	-61.66	0.00	0.54	-62.20	-20.00	42.20
483.3	H	41.18	-63.15	0.00	0.69	-63.84	-20.00	43.84
483.3	V	44.30	-63.11	0.00	0.69	-63.80	-20.00	43.80
644.4	H	45.10	-56.72	0.00	0.84	-57.56	-20.00	37.56
644.4	V	42.32	-62.41	0.00	0.84	-63.25	-20.00	43.25
805.5	H	37.39	-61.18	0.00	0.94	-62.12	-20.00	42.12
805.5	V	32.00	-70.23	0.00	0.94	-71.17	-20.00	51.17
966.6	H	40.37	-54.00	0.00	0.84	-54.84	-20.00	34.84
966.6	V	37.98	-57.93	0.00	0.84	-58.77	-20.00	38.77
1127.7	H	46.41	-66.84	7.37	1.04	-60.51	-20.00	40.51
1127.7	V	49.20	-64.64	7.37	1.04	-58.31	-20.00	38.31
1288.8	H	48.63	-64.86	8.19	1.18	-57.85	-20.00	37.85
1288.8	V	53.60	-60.81	8.19	1.18	-53.80	-20.00	33.80
1449.9	H	48.91	-65.29	9.25	1.27	-57.31	-20.00	37.31
1449.9	V	48.90	-65.65	9.25	1.27	-57.67	-20.00	37.67
1611.0	H	47.31	-67.40	10.18	0.69	-57.91	-20.00	37.91
1611.0	V	48.94	-66.37	10.18	0.69	-56.88	-20.00	36.88

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
FM, Frequency: 161.1MHz-25 kHz								
322.2	H	40.59	-67.20	0.00	0.54	-67.74	-13.00	54.74
322.2	V	47.31	-62.27	0.00	0.54	-62.81	-13.00	49.81
483.3	H	41.67	-62.66	0.00	0.69	-63.35	-13.00	50.35
483.3	V	44.73	-62.68	0.00	0.69	-63.37	-13.00	50.37
644.4	H	44.22	-57.60	0.00	0.84	-58.44	-13.00	45.44
644.4	V	41.65	-63.08	0.00	0.84	-63.92	-13.00	50.92
805.5	H	37.29	-61.28	0.00	0.94	-62.22	-13.00	49.22
805.5	V	31.99	-70.24	0.00	0.94	-71.18	-13.00	58.18
966.6	H	39.26	-55.11	0.00	0.84	-55.95	-13.00	42.95
966.6	V	37.13	-58.78	0.00	0.84	-59.62	-13.00	46.62
1127.7	H	46.59	-66.66	7.37	1.04	-60.33	-13.00	47.33
1127.7	V	50.15	-63.69	7.37	1.04	-57.36	-13.00	44.36
1288.8	H	47.52	-65.97	8.19	1.18	-58.96	-13.00	45.96
1288.8	V	54.13	-60.28	8.19	1.18	-53.27	-13.00	40.27
1449.9	H	49.24	-64.96	9.25	1.27	-56.98	-13.00	43.98
1449.9	V	49.25	-65.30	9.25	1.27	-57.32	-13.00	44.32
1611.0	H	47.06	-67.65	10.18	0.69	-58.16	-13.00	45.16
1611.0	V	48.37	-66.94	10.18	0.69	-57.45	-13.00	44.45

Part 22

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
FM, Frequency: 150.8125MHz-12.5 kHz								
301.6250	H	37.62	-70.96	0.00	0.52	-71.48	-13.00	58.48
301.6250	V	43.80	-66.15	0.00	0.52	-66.67	-13.00	53.67
452.4375	H	45.99	-58.52	0.00	0.66	-59.18	-13.00	46.18
452.4375	V	42.98	-64.71	0.00	0.66	-65.37	-13.00	52.37
603.2500	H	49.32	-52.79	0.00	0.77	-53.56	-13.00	40.56
603.2500	V	48.93	-56.41	0.00	0.77	-57.18	-13.00	44.18
754.0625	H	36.08	-63.85	0.00	0.93	-64.78	-13.00	51.78
754.0625	V	32.82	-70.27	0.00	0.93	-71.20	-13.00	58.20
904.8750	H	38.11	-58.83	0.00	1.03	-59.86	-13.00	46.86
904.8750	V	39.80	-59.11	0.00	1.03	-60.14	-13.00	47.14
1055.6875	H	48.31	-65.28	7.62	0.90	-58.56	-13.00	45.56
1055.6875	V	49.58	-64.50	7.62	0.90	-57.78	-13.00	44.78
1206.5000	H	46.50	-66.17	7.37	1.10	-59.90	-13.00	46.90
1206.5000	V	51.17	-62.58	7.37	1.10	-56.31	-13.00	43.31
1357.3125	H	46.31	-67.06	8.70	1.20	-59.56	-13.00	46.56
1357.3125	V	52.66	-61.44	8.70	1.20	-53.94	-13.00	40.94
1508.1250	H	46.23	-68.94	9.55	1.30	-60.69	-13.00	47.69
1508.1250	V	46.93	-68.38	9.55	1.30	-60.13	-13.00	47.13
4FSK, Frequency: 150.8125MHz-12.5 kHz								
301.6250	H	38.26	-70.32	0.00	0.52	-70.84	-13.00	57.84
301.6250	V	43.25	-66.70	0.00	0.52	-67.22	-13.00	54.22
452.4375	H	37.36	-67.15	0.00	0.66	-67.81	-13.00	54.81
452.4375	V	43.50	-64.19	0.00	0.66	-64.85	-13.00	51.85
603.2500	H	53.95	-48.16	0.00	0.77	-48.93	-13.00	35.93
603.2500	V	52.50	-52.84	0.00	0.77	-53.61	-13.00	40.61
754.0625	H	36.04	-63.89	0.00	0.93	-64.82	-13.00	51.82
754.0625	V	32.01	-71.08	0.00	0.93	-72.01	-13.00	59.01
904.8750	H	35.09	-61.85	0.00	1.03	-62.88	-13.00	49.88
904.8750	V	39.49	-59.42	0.00	1.03	-60.45	-13.00	47.45
1055.6875	H	47.18	-66.41	7.62	0.90	-59.69	-13.00	46.69
1055.6875	V	49.96	-64.12	7.62	0.90	-57.40	-13.00	44.40
1206.5000	H	47.36	-65.31	7.37	1.10	-59.04	-13.00	46.04
1206.5000	V	51.86	-61.89	7.37	1.10	-55.62	-13.00	42.62
1357.3125	H	47.20	-66.17	8.70	1.20	-58.67	-13.00	45.67
1357.3125	V	53.08	-61.02	8.70	1.20	-53.52	-13.00	40.52
1508.1250	H	47.55	-67.62	9.55	1.30	-59.37	-13.00	46.37
1508.1250	V	50.05	-65.26	9.55	1.30	-57.01	-13.00	44.01

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
FM, Frequency: 150.8125MHz-25 kHz								
301.6250	H	38.16	-70.42	0.00	0.52	-70.94	-13.00	57.94
301.6250	V	43.69	-66.26	0.00	0.52	-66.78	-13.00	53.78
452.4375	H	46.08	-58.43	0.00	0.66	-59.09	-13.00	46.09
452.4375	V	43.48	-64.21	0.00	0.66	-64.87	-13.00	51.87
603.2500	H	53.28	-48.83	0.00	0.77	-49.60	-13.00	36.60
603.2500	V	51.40	-53.94	0.00	0.77	-54.71	-13.00	41.71
754.0625	H	36.61	-63.32	0.00	0.93	-64.25	-13.00	51.25
754.0625	V	32.37	-70.72	0.00	0.93	-71.65	-13.00	58.65
904.8750	H	38.93	-58.01	0.00	1.03	-59.04	-13.00	46.04
904.8750	V	38.48	-60.43	0.00	1.03	-61.46	-13.00	48.46
1055.6875	H	48.08	-65.51	7.62	0.90	-58.79	-13.00	45.79
1055.6875	V	49.46	-64.62	7.62	0.90	-57.90	-13.00	44.90
1206.5000	H	46.62	-66.05	7.37	1.10	-59.78	-13.00	46.78
1206.5000	V	51.24	-62.51	7.37	1.10	-56.24	-13.00	43.24
1357.3125	H	46.92	-66.45	8.70	1.20	-58.95	-13.00	45.95
1357.3125	V	52.81	-61.29	8.70	1.20	-53.79	-13.00	40.79
1508.1250	H	46.52	-68.65	9.55	1.30	-60.40	-13.00	47.40
1508.1250	V	46.10	-69.21	9.55	1.30	-60.96	-13.00	47.96

Note:
Absolute Level = SG Level - Cable loss + Antenna Gain
Margin = Limit- Absolute Level

FCC §2.1055 & § 22.355 & §74.464 & §90.213- FREQUENCY STABILITY

Applicable Standard

FCC §2.1055, § 22.355, §74.464, §90.213

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the counter.

Test Data

Environmental Conditions

Temperature:	24.5 ℃
Relative Humidity:	67 %
ATM Pressure:	100.4 kPa

The testing was performed by Andy Huang on 2019-02-21.

Test Mode: Transmitting

FCC Part 90:

FM,12.5kHz, Reference Frequency: 155.7525 MHz, Limit: ±2.5 ppm			
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
-30	7.4	155.752511	0.07
-20	7.4	155.752519	0.12
-10	7.4	155.752519	0.12
0	7.4	155.752521	0.13
10	7.4	155.752523	0.15
20	7.4	155.752515	0.10
30	7.4	155.752514	0.09
40	7.4	155.752526	0.17
50	7.4	155.752513	0.08
20	6.3	155.752508	0.05
20	8.4	155.752516	0.10

4FSK, 12.5kHz, Reference Frequency: 155.7525 MHz, Limit: ±2.5 ppm			
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
-30	7.4	155.752514	0.09
-20	7.4	155.752512	0.08
-10	7.4	155.752515	0.10
0	7.4	155.752521	0.13
10	7.4	155.752521	0.13
20	7.4	155.752515	0.10
30	7.4	155.752513	0.08
40	7.4	155.752521	0.13
50	7.4	155.752514	0.09
20	6.3	155.752508	0.05
20	8.4	155.752511	0.07

FCC Part 74:

FM, 12.5kHz, Reference Frequency: 161.1 MHz, Limit: ±2.5 ppm			
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
-30	7.4	161.099988	-0.07
-20	7.4	161.099987	-0.08
-10	7.4	161.099992	-0.05
0	7.4	161.099983	-0.11
10	7.4	161.099984	-0.10
20	7.4	161.099985	-0.09
30	7.4	161.099982	-0.11
40	7.4	161.099983	-0.11
50	7.4	161.099988	-0.07
20	6.3	161.099991	-0.06
20	8.4	161.099984	-0.10

4FSK, 12.5kHz, Reference Frequency: 161.1 MHz, Limit: ±2.5 ppm			
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
-30	7.4	161.099981	-0.12
-20	7.4	161.099986	-0.09
-10	7.4	161.099992	-0.05
0	7.4	161.099985	-0.09
10	7.4	161.099984	-0.10
20	7.4	161.099987	-0.08
30	7.4	161.099988	-0.07
40	7.4	161.099981	-0.12
50	7.4	161.099982	-0.11
20	6.3	161.099991	-0.06
20	8.4	161.099982	-0.11

FM, 25kHz, Reference Frequency: 161.1 MHz, Limit: ±5.0 ppm			
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
-30	7.4	161.099981	-0.12
-20	7.4	161.099982	-0.11
-10	7.4	161.099991	-0.06
0	7.4	161.099986	-0.09
10	7.4	161.099984	-0.10
20	7.4	161.099983	-0.11
30	7.4	161.099986	-0.09
40	7.4	161.099983	-0.11
50	7.4	161.099987	-0.08
20	6.3	161.099994	-0.04
20	8.4	161.099988	-0.07

FCC Part 22:

FM, 12.5kHz, Reference Frequency: 150.8125 MHz, Limit: ±2.5 ppm			
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
-30	7.4	150.812511	0.07
-20	7.4	150.812519	0.13
-10	7.4	150.812517	0.11
0	7.4	150.812520	0.13
10	7.4	150.812513	0.09
20	7.4	150.812515	0.10
30	7.4	150.812522	0.15
40	7.4	150.812516	0.11
50	7.4	150.812514	0.09
20	6.3	150.812513	0.09
20	8.4	150.812521	0.14

4FSK,12.5kHz, Reference Frequency: 150.8125 MHz, Limit: ±2.5 ppm			
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
-30	7.4	150.812515	0.10
-20	7.4	150.812513	0.09
-10	7.4	150.812521	0.14
0	7.4	150.812523	0.15
10	7.4	150.812515	0.10
20	7.4	150.812517	0.11
30	7.4	150.812520	0.13
40	7.4	150.812512	0.08
50	7.4	150.812511	0.07
20	6.3	150.812523	0.15
20	8.4	150.812521	0.14

FM, 25kHz, Reference Frequency: 150.8125 MHz, Limit: ±5 ppm			
Temperature (℃)	**Voltage Supplied (V_{DC})**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
-30	7.4	150.812514	0.09
-20	7.4	150.812521	0.14
-10	7.4	150.812511	0.07
0	7.4	150.812523	0.15
10	7.4	150.812515	0.10
20	7.4	150.812513	0.09
30	7.4	150.812526	0.17
40	7.4	150.812519	0.13
50	7.4	150.812514	0.09
20	6.3	150.812511	0.07
20	8.4	150.812521	0.14

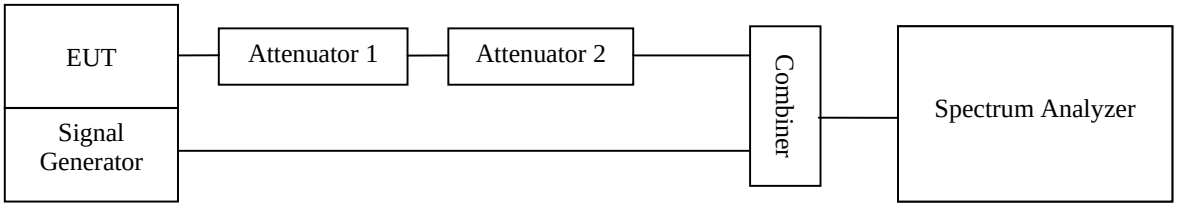
FCC §90.214 - TRANSIENT FREQUENCY BEHAVIOR

Applicable Standard

Regulations: FCC §90.214
Test method: ANSI/TIA-603-D 2010, section 2.2.19.3

Test Procedure

a) Connect the EUT and test equipment as shown on the following block diagram.
b) Set the Spectrum Analyzer to measure FM deviation, and tune the RF frequency to the transmitter assigned frequency.
c) Set the signal generator to the assigned transmitter frequency and modulate it with a 1 kHz tone at ±12.5 kHz deviation and set its output level to -100dBm.
d) Turn on the transmitter.
e) Supply sufficient attenuation via the RF attenuator to provide an input level to the Spectrum Analyzer that is 40 dB below the maximum allowed input power when the transmitter is operating at its rated power level. Note this power level on the Spectrum Analyzer as P_0.
f) Turn off the transmitter.
g) Adjust the RF level of the signal generator to provide RF power equal to P_0. This signal generator RF level shall be maintained throughout the rest of the measurement.
h) Remove the attenuation 1, so the input power to the Spectrum Analyzer is increased by 30 dB when the transmitter is turned on.
i) Adjust the vertical amplitude control of the spectrum analyzer to display the 1000 Hz at ±4 divisions vertically centered on the display. Set trigger mode of the Spectrum Analyzer to “Video”, and tune the “trigger level” on suitable level. Then set the “tiger offset” to -10ms for turn on and -15ms for turn off.
j) Turn on the transmitter and the transient wave will be captured on the screen of Spectrum Analyzer. Observe the stored display. The instant when the 1 kHz test signal is completely suppressed is considered to be t_{on}. The trace should be maintained within the allowed divisions during the period t_1 and t_2.
k) Then turn off the transmitter, and another transient wave will be captured on the screen of Spectrum Analyzer. The trace should be maintained within the allowed divisions during the period t_3.



Test Data

Environmental Conditions

Temperature:	24.5℃
Relative Humidity:	67 %
ATM Pressure:	100.4kPa

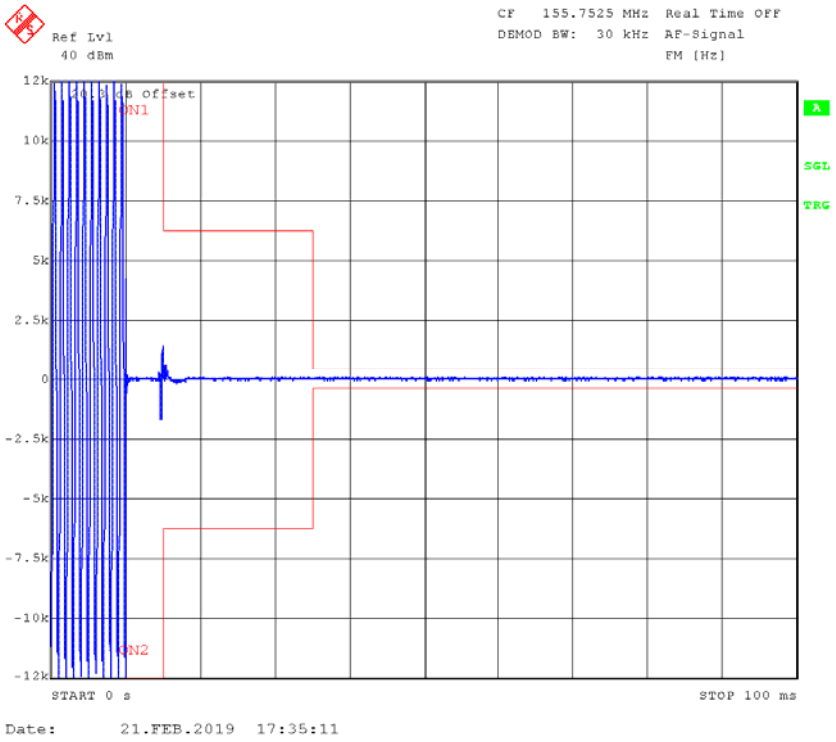
The testing was performed by Andy Huang on 2019-02-21.

Channel Spacing (kHz)	Transient Period (ms)	Transient Frequency	Result
12.5	<5(t_1)	±12.5 kHz	Pass
	<20(t_2)	±6.25 kHz	
	<5(t_3)	±12.5 kHz	

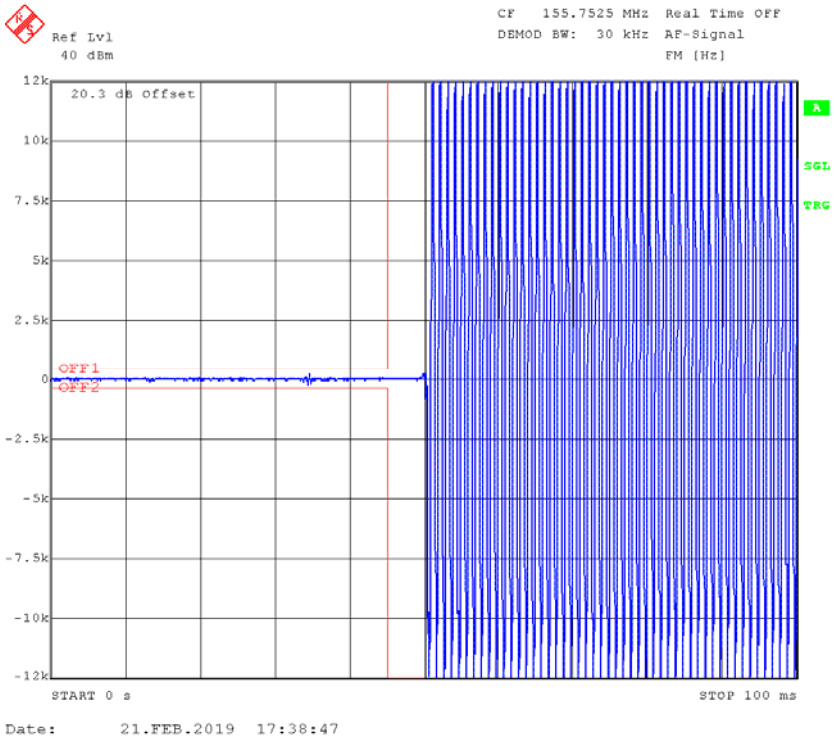
Please refer to the following plots.

High Power Channel: 155.7525 MHz

Turn on



Turn off



******* END OF REPORT *******