



FCC PART 22, AND PART 90

TEST REPORT

For

SHENZHEN COVALUE COMMUNICATIONS CO.,LTD.

2/F., Bldg. 24, XiLi Industrial Park, No.119 Xinguang Rd, Xili, Nanshan Shenzhen China

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RDG190929002-00A

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Jerry Zhang
EMC Manager

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:		DP7000-1
N	Multiple Model:	DP7100-1;DP6100-1;DP6000-1
Operat	ion Frequency:	136-174 MHz
Output Powe	er(Conducted):	High: 5W Low: 1W
Mo	dulation Type:	FM/4FSK
Ch	annel Spacing:	12.5/25kHz
Rated Input Voltage:		7.4V DC from battery or 12V DC from charger
	Model:	MR-1201000US
Adapter Information	Input:	100-240V~50/60Hz 0.3A
mormation	Output:	DC12V 1.0A
Exter	nal Dimension:	26.5mm(L)* 6mm(W)*3.5 mm(H)
Serial Number:		190929002-1(Model:DP7000-1) 190929002-2(Model:DP6100-1)
EUT Received Date:		2019/9/29
	EUT Status:	Good

Note: The series products models DP7000-1, DP7100-1;DP6100-1;DP6000-1 are electrically identical, we selected DP7000-1 for fully testing, and DP6100-1 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 *SHENZHEN COVALUE COMMUNICATIONS CO.,LTD.* in accordance with Part 2, part 22, and Part 90 of the Federal Communication Commission rules.

Related Submittal(s)/Grant(s)

No related submittal(s)/grant(s).

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 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%

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

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.

Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

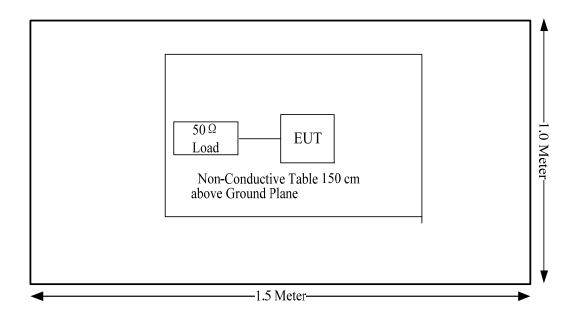
Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Manufacturer Description		Serial Number
Unknown 50Ω Load Terminal		100W	100W-1
HP	RF Communication Tester	8920A	00 247

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; §90.205	RF Output Power	Compliance
§2.1047;§90.207	Modulation Characteristic	Compliance
§2.1049;§22.357;§ 22.731; §90.209; §90.210	Occupied Bandwidth	Compliance
§2.1051; §22.861; §90.210	Spurious Emission at Antenna Terminal	Compliance
§2.1053;§22.861; §90.210	Spurious Radiated Emissions	Compliance
§2.1055; § 22.355;§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 emissions below 1GHz							
R&S	EMI Test Receiver	ESR3	102453	2019-06-26	2020-06-26		
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	2019-09-05	2020-09-05		
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2019-09-05	2020-09-05		
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2019-05-06	2020-05-06		
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05		
Agilent	Signal Generator	E8247C	MY43321350	2018-12-10	2019-12-10		
Ouli	Bandpass Filter	136-174M	021	2019-07-23	2020-07-23		
	Radi	ated emissions abo	ove 1GHz				
Agilent	Spectrum Analyzer	E4440A	SG43360054	2019-05-09	2020-05-09		
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	2019-09-05	2020-09-05		
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2019-09-05	2020-09-05		
MITEQ	Amplifier	AFS42- 00101800-25-S- 42	2001271	2019-09-05	2020-09-05		
Agilent	Signal Generator	E8247C	MY43321350	2018-12-10	2019-12-10		
		RF Conducted T	est				
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2019-08-03	2020-08-03		
Unknown	Coaxial Cable	C-SJ00-0010	C0010/02	Each time	N/A		
Unknown	Coaxial Cable	C-SJ00-0010	C0010/05	Each time	N/A		
E-Microwave	Blocking Control	EMDCB-00036	0E01201048	Each time	N/A		
E-Microwave	Coaxial Attenuators	EMCA40- 200SN-6	OE01201046	Each time	N/A		
Ouli	Bandpass Filter	136-174M	021	2019-07-23	2020-07-23		
HP	RF Communications Test Set	8920A	3438A05201	2019-05-09	2020-05-09		
ESPEC	Constant temperature and humidity Tester	ESX-4CA	018 463	2019-03-26	2020-03-26		
UNI-T	Multimeter	UT39A	M130199938	2019-07-23	2020-07-23		

^{*} 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: RDG190929002-20A.

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

Applicable Standard

FCC §2.1046, § 22.727, 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:	27.8°C
Relative Humidity:	63 %
ATM Pressure:	100.4 kPa
Tester:	Blake Yang
Test Date:	2019-10-11

Test Mode: Transmitting

Test Result: Compliance. Please refer to following table.

Modulation Channel		\mathbf{f}_{c}	Reading (W)		Nede
Mode	Separation	MHz	High Power Level	Low Power Level	Note
		136.0125	5.28	1.02	
FM	12.5kHz	155.7525	5.28	1.13	
		173.3875	5.22	1.12	ECC mart 00
	12.5kHz	136.0125	5.55	1.11	FCC part 90
4FSK		155.7525	5.31	1.07	
		173.3875	5.66	1.04	
EM	12.5kHz	150.8125	5.37	1.10	
FM	25kHz	150.8125	5.19	1.13	FCC part 22
4FSK	12.5kHz	150.8125	5.27	1.08	

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:	27.8°C	
Relative Humidity:	63 %	
ATM Pressure:	100.4 kPa	
Tester:	Blake Yang	
Test Date:	2019-10-11	

Test Mode: Transmitting

Result: Compliance.

12.5 kHz:

Audio Frequency Response – High Power

Report No.: RDG190929002-00A

Carrier Frequency: 155.7525 MHz

Modulation Frequency (Hz)	Response data (dB)
300	-12.89
400	-9.80
500	-7.38
600	-5.25
700	-3.49
800	-2.15
900	-1.03
1000	0.00
1200	1.45
1400	2.58
1600	3.53
1800	4.87
2000	6.45
2200	7.36
2400	8.24
2600	8.64
2800	8.68
3000	8.17

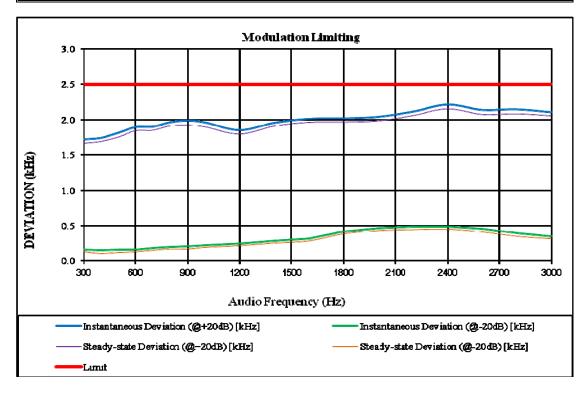


MODULATION LIMITING – High Power

Report No.: RDG190929002-00A

Carrier Frequency: 155.7525 MHz

	Instantaneous		Instantaneous Steady-state			
Audio Frequency (Hz)	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	Limit [kHz]	
300	1.724	0.161	1.666	0.133	2.5	
400	1.745	0.153	1.692	0.108	2.5	
500	1.817	0.159	1.753	0.122	2.5	
600	1.896	0.160	1.845	0.132	2.5	
700	1.902	0.187	1.851	0.153	2.5	
800	1.966	0.203	1.913	0.172	2.5	
900	1.987	0.206	1.922	0.171	2.5	
1000	1.963	0.225	1.899	0.193	2.5	
1200	1.854	0.248	1.797	0.218	2.5	
1400	1.957	0.283	1.909	0.254	2.5	
1600	2.013	0.317	1.963	0.284	2.5	
1800	2.019	0.415	1.967	0.385	2.5	
2000	2.041	0.469	1.983	0.431	2.5	
2200	2.113	0.486	2.058	0.445	2.5	
2400	2.214	0.490	2.154	0.451	2.5	
2600	2.138	0.456	2.074	0.412	2.5	
2800	2.146	0.394	2.083	0.350	2.5	
3000	2.105	0.352	2.055	0.315	2.5	

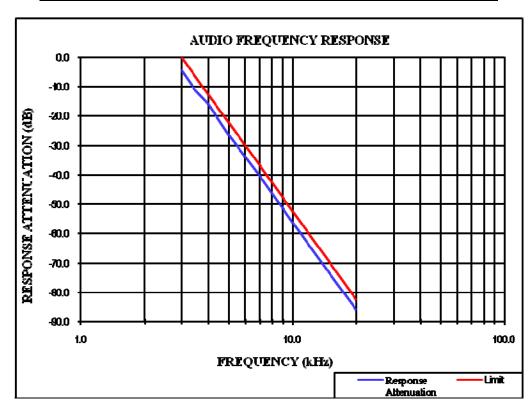


Audio Frequency Low Pass Filter Response – High Power

Report No.: RDG190929002-00A

Carrier Frequency: 155.7525 MHz

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
3.0	-4.5	0.0
3.5	-11.3	-6.7
4.0	-15.7	-12.5
5.0	-26.4	-22.2
7.0	-40.3	-36.8
10.0	-56.1	-52.3
15.0	-73.8	-69.9
20.0	-85.7	-82.5



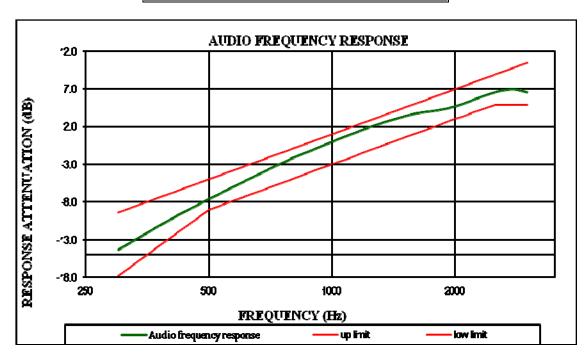
25 kHz:

Audio Frequency Response – High Power

Report No.: RDG190929002-00A

Carrier Frequency: 150.8125 MHz

Modulation Frequency (Hz)	Response data (dB)
300	-14.31
400	-10.37
500	-7.60
600	-5.44
700	-3.65
800	-2.17
900	-1.03
1000	0.00
1200	1.69
1400	2.89
1600	3.75
1800	4.13
2000	4.68
2200	5.50
2400	6.25
2600	6.79
2800	6.95
3000	6.58

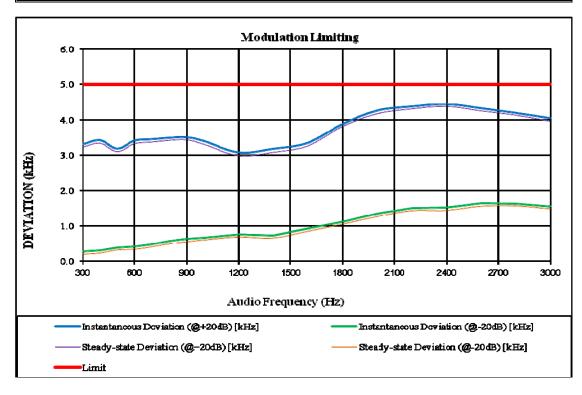


MODULATION LIMITING – High Power

Report No.: RDG190929002-00A

Carrier Frequency: 150.8125 MHz

	Instantaneous Steady-state				
Audio Frequency (Hz)	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	Limit [kHz]
300	3.306	0.273	3.228	0.205	5
400	3.426	0.313	3.341	0.240	5
500	3.187	0.385	3.107	0.327	5
600	3.415	0.414	3.329	0.345	5
700	3.454	0.487	3.376	0.415	5
800	3.494	0.572	3.423	0.498	5
900	3.508	0.629	3.437	0.557	5
1000	3.404	0.671	3.312	0.608	5
1200	3.079	0.762	2.991	0.691	5
1400	3.183	0.733	3.088	0.664	5
1600	3.352	0.926	3.266	0.856	5
1800	3.881	1.114	3.811	1.055	5
2000	4.261	1.343	4.168	1.270	5
2200	4.376	1.497	4.304	1.435	5
2400	4.443	1.517	4.374	1.445	5
2600	4.325	1.637	4.245	1.564	5
2800	4.194	1.632	4.126	1.574	5
3000	4.044	1.558	3.955	1.488	5

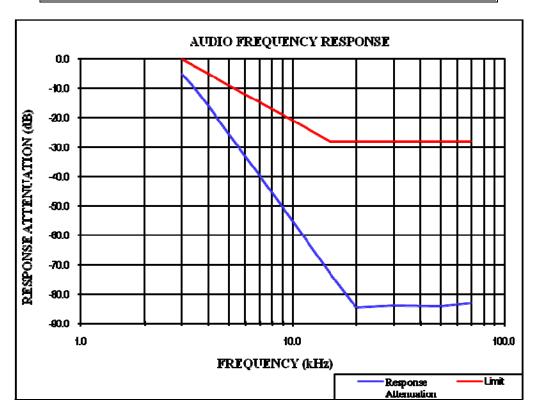


Audio Frequency Low Pass Filter Response – High Power

Report No.: RDG190929002-00A

Carrier Frequency: 150.8125 MHz

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
3.0	-5.2	0.0
3.5	-10.3	-2.7
4.0	-15.7	-5.0
5.0	-25.4	-8.9
7.0	-39.6	-14.7
10.0	-55.1	-20.9
15.0	-72.8	-28.0
20.0	-84.6	-28.0
30.0	-83.8	-28.0
50.0	-84.2	-28.0
70.0	-83.1	-28.0



FCC §2.1049 & §22.357 & § 22.731 & §90.209 & §90.210 – OCCUPIED BANDWIDTH&EMISSION MASK

Applicable Standard

FCC §2.1049, §22.357, § 22.731,§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 shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\ge 3 \times RBW$.

Test Data

Environmental Conditions

Temperature:	27.8°C	
Relative Humidity:	63 %	
ATM Pressure:	100.4 kPa	
Tester:	Blake Yang	
Test Date:	2019-10-11	

Test Mode: Transmitting

Result: Compliance.

Modulation Mode	Channel Separation	f _c MHz	99% Occupied Bandwidth kHz	26 dB Bandwidth kHz	Power Level	Note	
FM 12.5kHz		9.920	10.321	High	igh		
LIM	FWI 12.3KHZ	155.7525	9.920	10.421	Low	FCC part	
4ECV	4FSK 12.5kHz	12.5kHz	133./323	6.132	9.210	High	90
4F5K			12.3KHZ	12.3КПZ	IIZ	6.313	8.517
FM 12.5kHz 25kHz		9.920	10.271	High			
		9.920	10.271	Low			
	251-11-	150.8125	15.030	15.832	High	FCC part	
	ZSKHZ		14.830	15.832	Low	22	
4FSK 12.	12 51-11-		6.513	8.818	High		
	12.3KHZ	12.5kHz	6.913	9.118	Low		

Note: Emission bandwidth was based on calculation method instead of measurement.

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

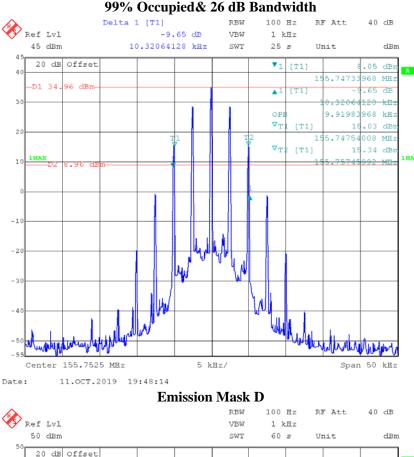
The 99% energy rule was used for digital mode. It basically states that 99% of the modulation energy falls within X kHz, in this case, 7.60 kHz.

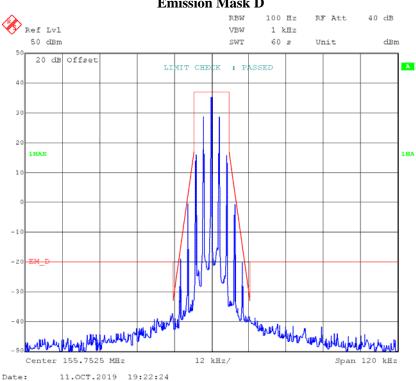
F1D and F1E portion of the designator indicates digital information.

Therefore, the entire designator for 12.5 kHz channel spacing digital mode is 7K60F1D and 7K60F1E.

Date:

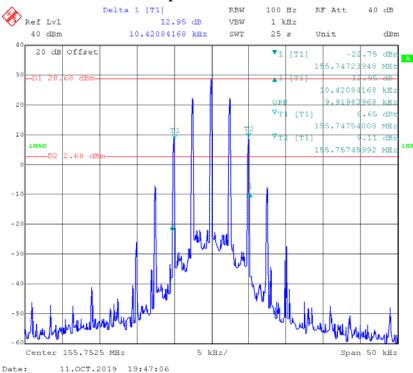
FM,12.5kHz, High Power - Frequency 155.7525 MHz: 99% Occupied& 26 dB Bandwidth



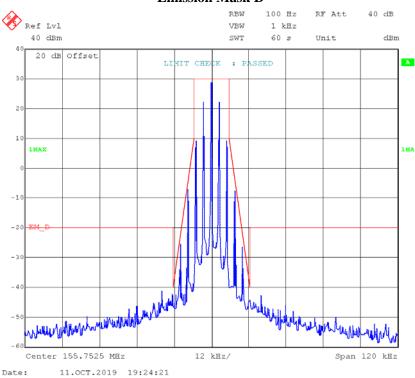


FM,12.5kHz, Low Power - Frequency 155.7525 MHz:

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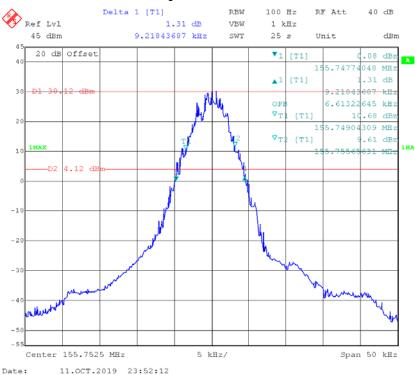


Emission Mask D

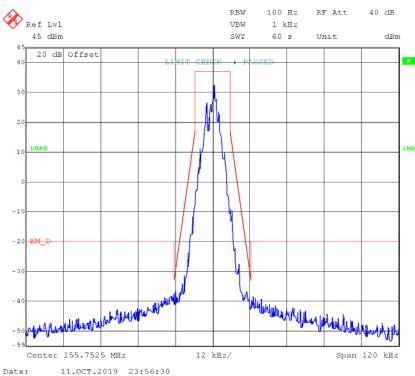


4FSK,12.5kHz, High Power - Frequency 155.7525 MHz:

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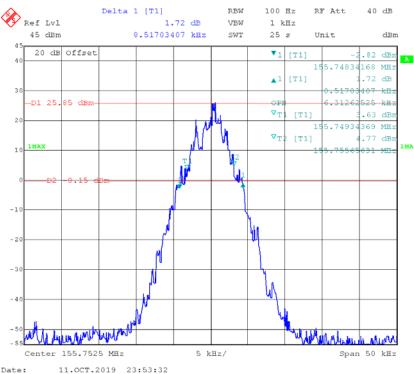
Emission Mask D



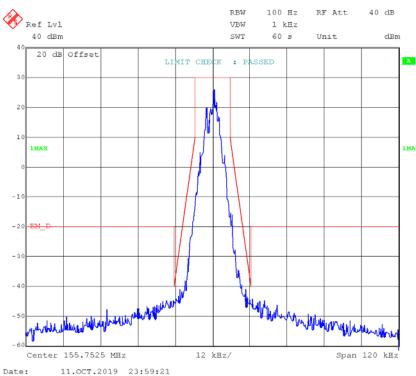
4FSK,12.5kHz, Low Power - Frequency 155.7525 MHz:

99% Occupied& 26 dB Bandwidth

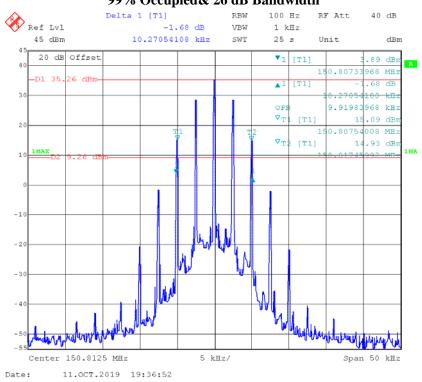
Report No.: RDG190929002-00A



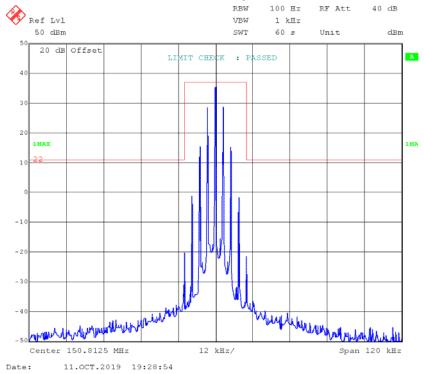
Emission Mask D



Part 22 FM,12.5kHz, High Power - Frequency 150.8125 MHz: 99% Occupied& 26 dB Bandwidth

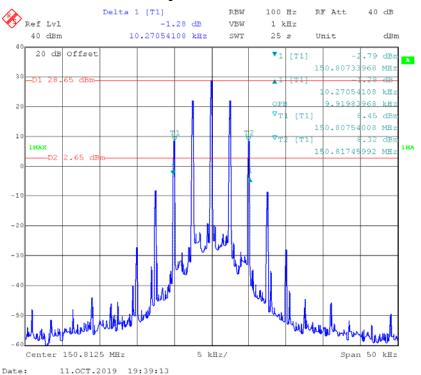


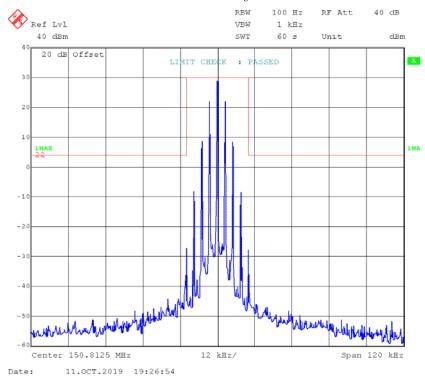
Emission Mask-§22.359



FM,12.5kHz, Low Power – Frequency 150.8125 MHz:

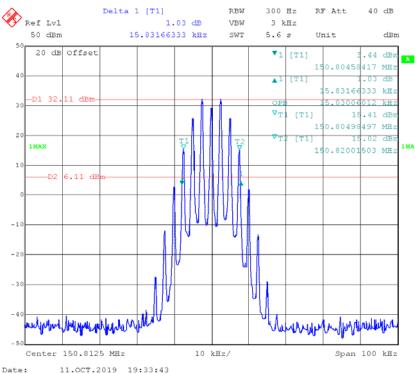
Report No.: RDG190929002-00A

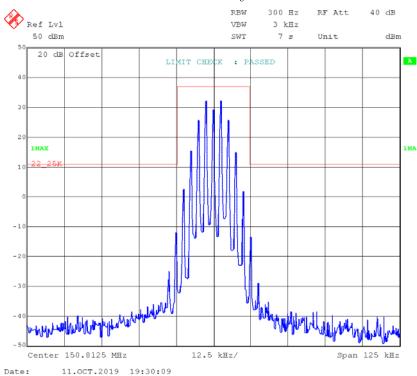




FM,25kHz, High Power - Frequency 150.8125 MHz:

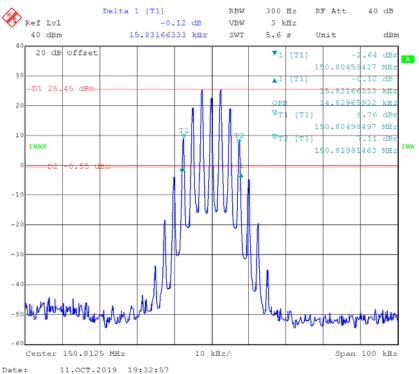
Report No.: RDG190929002-00A

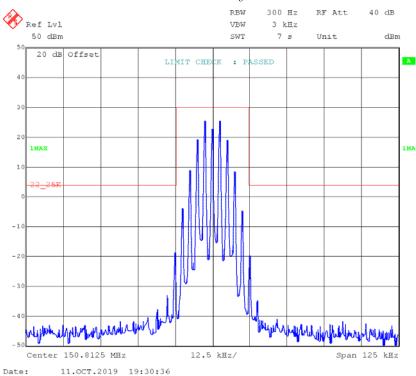




FM, 25 kHz, Low Power – Frequency 150.8125 MHz:

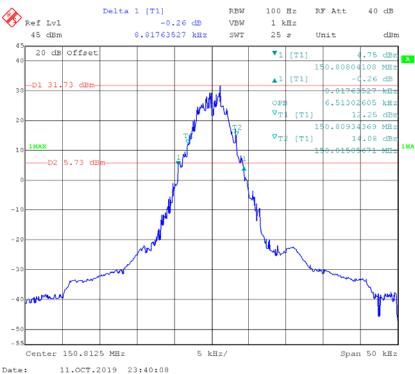
Report No.: RDG190929002-00A

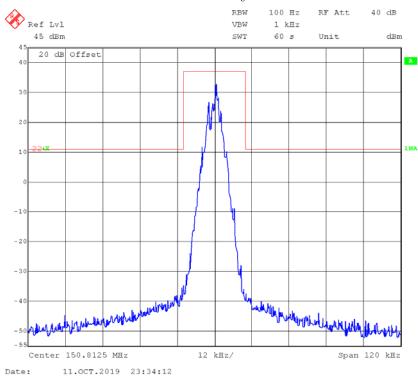




4FSK,12.5 kHz, High Power - Frequency 150.8125 MHz:

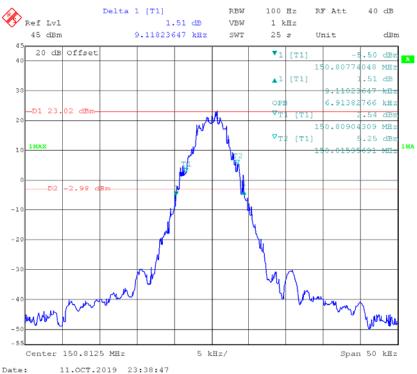
Report No.: RDG190929002-00A

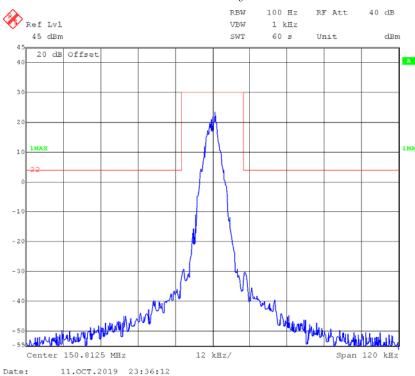




4FSK,12.5 kHz, Low Power - Frequency 150.8125 MHz:

Report No.: RDG190929002-00A





FCC $\S 2.1051$ & $\S 22.861$ & $\S 90.210$ - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Report No.: RDG190929002-00A

Applicable Standard

FCC §2.1051, §22.861, 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 100 kHz 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

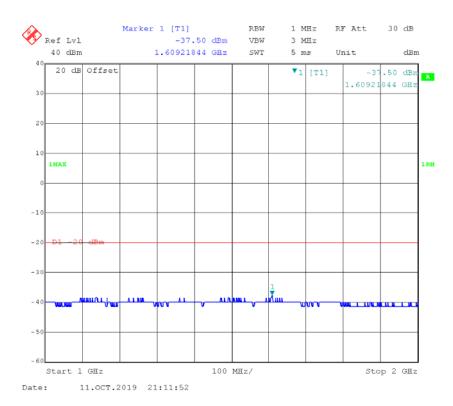
Temperature:	27.8°C	
Relative Humidity:	63 %	
ATM Pressure:	100.4 kPa	
Tester:	Blake Yang	
Test Date:	2019-10-11	

Test Mode: Transmitting

Part 90

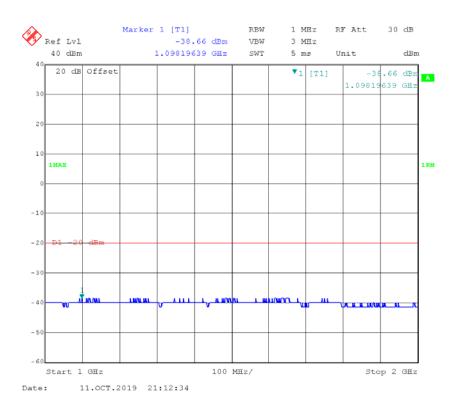
155.7525 MHz,12.5kHz,FM, High power





155.7525 MHz,12.5kHz, 4FSK, High power

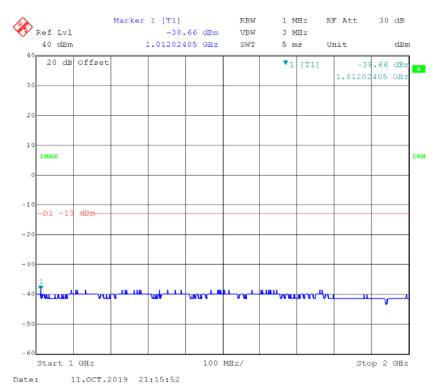




Part 22:

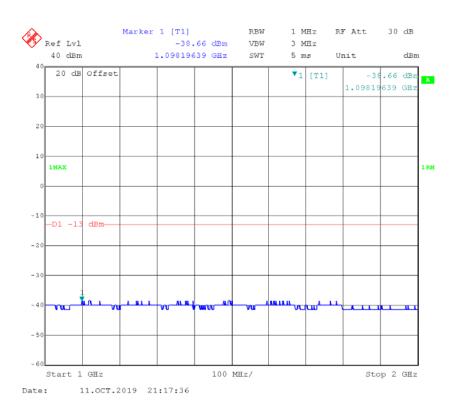
150.8125 MHz,12.5kHz,FM, High power



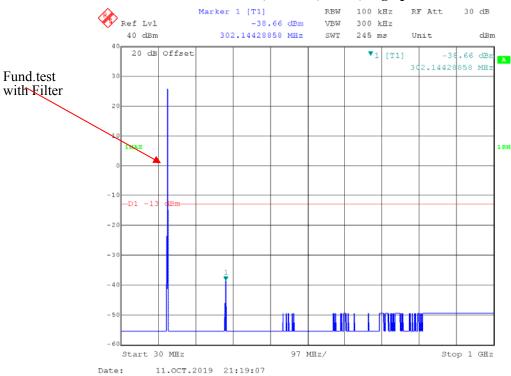


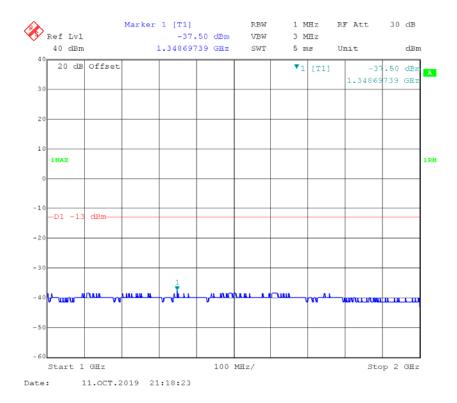
150.8125 MHz,25 kHz,FM, High power





150.8125 MHz,12.5kHz, 4FSK, High power





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

Applicable Standard

FCC §2.1053, §90.210, §22.861

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.

Test Data

Environmental Conditions

Test Item:	Radiated Spurious Emissions Below 1GHz	Radiated Spurious Emissions Above 1GHz		
Temperature:	26.5℃	26.8 ℃		
Relative Humidity:	50 %	54 %		
ATM Pressure:	100.8 kPa	100.8 kPa		
Tester:	Ade Xiao	Lucy Lu		
Test Date:	2019-10-16	2019-10-16		

Test Mode: Transmitting

30MHz - 2GHz: DP7000-1: Part 90:

			Sub	stituted Meth	od			Margin (dB)
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	
		FM,F	requency: 155.	7525MHz-12.	5 kHz, High	Power		
311.51	Н	35.97	-72.47	0.00	0.32	-72.79	-20.00	52.79
311.51	V	36.18	-70.48	0.00	0.32	-70.80	-20.00	50.8
467.26	Н	37.06	-68.80	0.00	0.36	-69.16	-20.00	49.16
467.26	V	37.14	-66.04	0.00	0.36	-66.40	-20.00	46.4
623.01	Н	45.39	-56.69	0.00	0.36	-57.05	-20.00	37.05
623.01	V	45.44	-54.00	0.00	0.36	-54.36	-20.00	34.36
778.76	Н	35.26	-63.77	0.00	0.47	-64.24	-20.00	44.24
778.76	V	35.54	-60.39	0.00	0.47	-60.86	-20.00	40.86
934.52	Н	35.75	-58.63	0.00	0.51	-59.14	-20.00	39.14
934.52	V	35.38	-55.85	0.00	0.51	-56.36	-20.00	36.36
1090.27	Н	47.84	-65.68	7.45	0.99	-59.22	-20.00	39.22
1090.27	V	51.54	-62.40	7.45	0.99	-55.94	-20.00	35.94
1246.02	Н	52.83	-60.23	7.76	1.14	-53.61	-20.00	33.61
1246.02	V	57.84	-56.23	7.76	1.14	-49.61	-20.00	29.61
1401.77	Н	52.54	-60.70	9.01	1.20	-52.89	-20.00	32.89
1401.77	V	53.13	-60.70	9.01	1.20	-52.89	-20.00	32.89
		4FSK,	Frequency: 155	.7525MHz-12	2.5 kHz, High	Power		
311.51	Н	37.68	-70.76	0.00	0.32	-71.08	-20.00	51.08
311.51	V	38.10	-68.56	0.00	0.32	-68.88	-20.00	48.88
467.26	Н	40.25	-65.61	0.00	0.36	-65.97	-20.00	45.97
467.26	V	40.43	-62.75	0.00	0.36	-63.11	-20.00	43.11
623.01	Н	41.31	-60.77	0.00	0.36	-61.13	-20.00	41.13
623.01	V	41.16	-58.28	0.00	0.36	-58.64	-20.00	38.64
778.76	Н	35.16	-63.87	0.00	0.47	-64.34	-20.00	44.34
778.76	V	35.24	-60.69	0.00	0.47	-61.16	-20.00	41.16
934.52	Н	35.81	-58.57	0.00	0.51	-59.08	-20.00	39.08
934.52	V	35.49	-55.74	0.00	0.51	-56.25	-20.00	36.25
1090.27	Н	46.81	-66.71	7.45	0.99	-60.25	-20.00	40.25
1090.27	V	50.96	-62.98	7.45	0.99	-56.52	-20.00	36.52
1246.02	Н	52.78	-60.28	7.76	1.14	-53.66	-20.00	33.66
1246.02	V	58.38	-55.69	7.76	1.14	-49.07	-20.00	29.07
1401.77	Н	52.39	-60.85	9.01	1.20	-53.04	-20.00	33.04
1401.77	V	53.11	-60.72	9.01	1.20	-52.91	-20.00	32.91

Part 22

		D .	Sub	stituted Meth	ıod	41 14		Margin (dB)
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	
		FM, I	Frequency:150.	8125MHz-12.	5 kHz, High	Power		
301.63	Н	38.41	-70.21	0.00	0.31	-70.52	-13.00	57.52
301.63	V	38.23	-68.71	0.00	0.31	-69.02	-13.00	56.02
452.44	Н	39.68	-66.39	0.00	0.36	-66.75	-13.00	53.75
452.44	V	40.79	-62.60	0.00	0.36	-62.96	-13.00	49.96
603.25	Н	37.04	-65.34	0.00	0.36	-65.70	-13.00	52.70
603.25	V	37.23	-62.70	0.00	0.36	-63.06	-13.00	50.06
754.06	Н	36.05	-63.57	0.00	0.44	-64.01	-13.00	51.01
754.06	V	35.93	-60.50	0.00	0.44	-60.94	-13.00	47.94
904.88	Н	35.48	-59.95	0.00	0.51	-60.46	-13.00	47.46
904.88	V	35.33	-56.75	0.00	0.51	-57.26	-13.00	44.26
1055.69	Н	48.06	-65.53	7.62	0.90	-58.81	-13.00	45.81
1055.69	V	49.72	-64.36	7.62	0.90	-57.64	-13.00	44.64
1206.50	Н	52.50	-60.17	7.37	1.10	-53.90	-13.00	40.90
1206.50	V	56.42	-57.33	7.37	1.10	-51.06	-13.00	38.06
1357.31	Н	50.08	-63.29	8.70	1.20	-55.79	-13.00	42.79
1357.31	V	49.78	-64.32	8.70	1.20	-56.82	-13.00	43.82
		FM,	Frequency:150	.8125MHz-25	kHz, High F	ower		
301.63	Н	36.83	-71.79	0.00	0.31	-72.10	-13.00	59.10
301.63	V	37.12	-69.82	0.00	0.31	-70.13	-13.00	57.13
452.44	Н	41.28	-64.79	0.00	0.36	-65.15	-13.00	52.15
452.44	V	41.35	-62.04	0.00	0.36	-62.40	-13.00	49.40
603.25	Н	36.12	-66.26	0.00	0.36	-66.62	-13.00	53.62
603.25	V	36.32	-63.61	0.00	0.36	-63.97	-13.00	50.97
754.06	Н	35.54	-64.08	0.00	0.44	-64.52	-13.00	51.52
754.06	V	35.61	-60.82	0.00	0.44	-61.26	-13.00	48.26
904.88	Н	35.31	-60.12	0.00	0.51	-60.63	-13.00	47.63
904.88	V	35.46	-56.62	0.00	0.51	-57.13	-13.00	44.13
1055.69	Н	47.26	-66.33	7.62	0.90	-59.61	-13.00	46.61
1055.69	V	50.50	-63.58	7.62	0.90	-56.86	-13.00	43.86
1206.50	Н	51.67	-61.00	7.37	1.10	-54.73	-13.00	41.73
1206.50	V	59.01	-54.74	7.37	1.10	-48.47	-13.00	35.47
1357.31	Н	49.03	-64.34	8.70	1.20	-56.84	-13.00	43.84
1357.31	V	49.39	-64.71	8.70	1.20	-57.21	-13.00	44.21

			Subs	stituted Meth	ıod	43. 3.		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		4FSK,	Frequency: 150	.8125MHz-12	2.5 kHz, High	Power		
301.63	Н	36.55	-72.07	0.00	0.31	-72.38	-13.00	59.38
301.63	V	36.73	-70.21	0.00	0.31	-70.52	-13.00	57.52
452.44	Н	40.92	-65.15	0.00	0.36	-65.51	-13.00	52.51
452.44	V	41.15	-62.24	0.00	0.36	-62.60	-13.00	49.60
603.25	Н	35.82	-66.56	0.00	0.36	-66.92	-13.00	53.92
603.25	V	36.72	-63.21	0.00	0.36	-63.57	-13.00	50.57
754.06	Н	35.52	-64.10	0.00	0.44	-64.54	-13.00	51.54
754.06	V	35.71	-60.72	0.00	0.44	-61.16	-13.00	48.16
904.88	Н	35.28	-60.15	0.00	0.51	-60.66	-13.00	47.66
904.88	V	35.39	-56.69	0.00	0.51	-57.20	-13.00	44.20
1055.69	Н	47.84	-65.75	7.62	0.90	-59.03	-13.00	46.03
1055.69	V	51.54	-62.54	7.62	0.90	-55.82	-13.00	42.82
1206.50	Н	52.83	-59.84	7.37	1.10	-53.57	-13.00	40.57
1206.50	V	57.84	-55.91	7.37	1.10	-49.64	-13.00	36.64
1357.31	Н	52.54	-60.83	8.70	1.20	-53.33	-13.00	40.33
1357.31	V	53.13	-60.97	8.70	1.20	-53.47	-13.00	40.47

DP6100-1: Part 90:

Part 90:						1		
		Receiver	Suk	stituted Met	hod	Absolute		
Frequency (MHz)	Polar (H/V)	Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Margin (dB)
		FM,Freq	uency: 155.	7525MHz-12	2.5 kHz, Hig	gh Power		
311.51	Н	35.62	-72.82	0.00	0.32	-73.14	-20.00	53.14
311.51	V	35.81	-70.85	0.00	0.32	-71.17	-20.00	51.17
467.26	Н	37.25	-68.61	0.00	0.36	-68.97	-20.00	48.97
467.26	V	37.32	-65.86	0.00	0.36	-66.22	-20.00	46.22
623.01	Н	45.55	-56.53	0.00	0.36	-56.89	-20.00	36.89
623.01	V	45.81	-53.63	0.00	0.36	-53.99	-20.00	33.99
778.76	Н	35.13	-63.90	0.00	0.47	-64.37	-20.00	44.37
778.76	V	35.22	-60.71	0.00	0.47	-61.18	-20.00	41.18
934.52	Н	35.62	-58.76	0.00	0.51	-59.27	-20.00	39.27
934.52	V	35.71	-55.52	0.00	0.51	-56.03	-20.00	36.03
1090.27	Н	47.56	-65.96	7.45	0.99	-59.50	-20.00	39.50
1090.27	V	50.55	-63.39	7.45	0.99	-56.93	-20.00	36.93
1246.02	Н	48.12	-64.94	7.76	1.14	-58.32	-20.00	38.32
1246.02	V	54.07	-60.00	7.76	1.14	-53.38	-20.00	33.38
1401.77	Н	50.82	-62.42	9.01	1.20	-54.61	-20.00	34.61
1401.77	V	55.82	-58.01	9.01	1.20	-50.20	-20.00	30.20
		4FSK,Fre	quency: 155	5.7525MHz-1	2.5 kHz, Hi	gh Power	•	•
311.51	Н	36.55	-71.89	0.00	0.32	-72.21	-20.00	52.21
311.51	V	36.62	-70.04	0.00	0.32	-70.36	-20.00	50.36
467.26	Н	39.68	-66.18	0.00	0.36	-66.54	-20.00	46.54
467.26	V	40.26	-62.92	0.00	0.36	-63.28	-20.00	43.28
623.01	Н	41.38	-60.70	0.00	0.36	-61.06	-20.00	41.06
623.01	V	42.52	-56.92	0.00	0.36	-57.28	-20.00	37.28
778.76	Н	35.85	-63.18	0.00	0.47	-63.65	-20.00	43.65
778.76	V	35.76	-60.17	0.00	0.47	-60.64	-20.00	40.64
934.52	Н	35.25	-59.13	0.00	0.51	-59.64	-20.00	39.64
934.52	V	35.67	-55.56	0.00	0.51	-56.07	-20.00	36.07
1090.27	Н	48.43	-65.09	7.45	0.99	-58.63	-20.00	38.63
1090.27	V	49.83	-64.11	7.45	0.99	-57.65	-20.00	37.65
1246.02	Н	54.02	-59.04	7.76	1.14	-52.42	-20.00	32.42
1246.02	V	59.35	-54.72	7.76	1.14	-48.10	-20.00	28.10
1401.77	Н	51.92	-61.32	9.01	1.20	-53.51	-20.00	33.51
1401.77	V	55.55	-58.28	9.01	1.20	-50.47	-20.00	30.47

Part 22:

		D •	Sul	ostituted Met	hod			Margin (dB)
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	
		FM, Fre	quency:150.	8125MHz-12	2.5 kHz, Hig	gh Power		
301.63	Н	38.41	-70.21	0.00	0.31	-70.52	-13.00	57.52
301.63	V	38.23	-68.71	0.00	0.31	-69.02	-13.00	56.02
452.44	Н	39.68	-66.39	0.00	0.36	-66.75	-13.00	53.75
452.44	V	40.79	-62.60	0.00	0.36	-62.96	-13.00	49.96
603.25	Н	37.04	-65.34	0.00	0.36	-65.70	-13.00	52.70
603.25	V	37.23	-62.70	0.00	0.36	-63.06	-13.00	50.06
754.06	Н	36.05	-63.57	0.00	0.44	-64.01	-13.00	51.01
754.06	V	35.93	-60.50	0.00	0.44	-60.94	-13.00	47.94
904.88	Н	35.48	-59.95	0.00	0.51	-60.46	-13.00	47.46
904.88	V	35.33	-56.75	0.00	0.51	-57.26	-13.00	44.26
1055.69	Н	46.51	-67.08	7.62	0.90	-60.36	-13.00	47.36
1055.69	V	49.26	-64.82	7.62	0.90	-58.10	-13.00	45.10
1206.50	Н	52.75	-59.92	7.37	1.10	-53.65	-13.00	40.65
1206.50	V	58.75	-55.00	7.37	1.10	-48.73	-13.00	35.73
1357.31	Н	49.61	-63.76	8.70	1.20	-56.26	-13.00	43.26
1357.31	V	53.83	-60.27	8.70	1.20	-52.77	-13.00	39.77
		FM, Fre	equency:150	.8125MHz-2	25 kHz, High	h Power		
301.63	Н	35.72	-72.90	0.00	0.31	-73.21	-13.00	60.21
301.63	V	36.16	-70.78	0.00	0.31	-71.09	-13.00	58.09
452.44	Н	40.81	-65.26	0.00	0.36	-65.62	-13.00	52.62
452.44	V	40.96	-62.43	0.00	0.36	-62.79	-13.00	49.79
603.25	Н	36.11	-66.27	0.00	0.36	-66.63	-13.00	53.63
603.25	V	36.52	-63.41	0.00	0.36	-63.77	-13.00	50.77
754.06	Н	35.41	-64.21	0.00	0.44	-64.65	-13.00	51.65
754.06	V	35.81	-60.62	0.00	0.44	-61.06	-13.00	48.06
904.88	Н	35.66	-59.77	0.00	0.51	-60.28	-13.00	47.28
904.88	V	35.74	-56.34	0.00	0.51	-56.85	-13.00	43.85
1055.69	Н	46.58	-67.01	7.62	0.90	-60.29	-13.00	47.29
1055.69	V	48.96	-65.12	7.62	0.90	-58.40	-13.00	45.40
1206.50	Н	52.05	-60.62	7.37	1.10	-54.35	-13.00	41.35
1206.50	V	57.43	-56.32	7.37	1.10	-50.05	-13.00	37.05

		ъ .	Sub	stituted Met	hod	41 1 4		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		4FSK,Fre	equency: 150	.8125MHz-1	12.5 kHz, Hi	gh Power		
301.63	Н	35.42	-73.20	0.00	0.31	-73.51	-13.00	60.51
301.63	V	35.86	-71.08	0.00	0.31	-71.39	-13.00	58.39
452.44	Н	41.12	-64.95	0.00	0.36	-65.31	-13.00	52.31
452.44	V	41.52	-61.87	0.00	0.36	-62.23	-13.00	49.23
603.25	Н	35.26	-67.12	0.00	0.36	-67.48	-13.00	54.48
603.25	V	35.47	-64.46	0.00	0.36	-64.82	-13.00	51.82
754.06	Н	35.44	-64.18	0.00	0.44	-64.62	-13.00	51.62
754.06	V	35.65	-60.78	0.00	0.44	-61.22	-13.00	48.22
904.88	Н	35.73	-59.70	0.00	0.51	-60.21	-13.00	47.21
904.88	V	35.86	-56.22	0.00	0.51	-56.73	-13.00	43.73
1055.69	Н	46.85	-66.74	7.62	0.90	-60.02	-13.00	47.02
1055.69	V	47.04	-67.03	7.62	0.90	-60.31	-13.00	47.31
1206.50	Н	53.15	-59.52	7.37	1.10	-53.25	-13.00	40.25
1206.50	V	58.85	-54.90	7.37	1.10	-48.63	-13.00	35.63

Note:

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

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

Applicable Standard

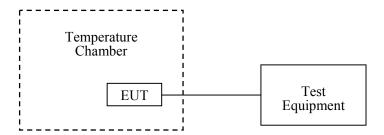
FCC §2.1055, § 22.355, § 90.213

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 communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The 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 communication test set.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set from 85% to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.



Test Data

Environmental Conditions

Temperature:	27.8°C
Relative Humidity:	63 %
ATM Pressure:	100.4 kPa
Tester:	Blake Yang
Test Date:	2019-10-11

Test Mode: Transmitting(the worst is high power level)

FCC Part 90:

FM,12.5	FM,12.5kHz, Reference Frequency: 155.7525 MHz, Limit: ±5.0 ppm						
Temperature (℃)	$\begin{array}{c} \textbf{Voltage Supplied} \\ \textbf{(V}_{DC}) \end{array}$	Measured Frequency (MHz)	Frequency Error (ppm)				
-30	7.4	155.752433	-0.43				
-20	7.4	155.752460	-0.26				
-10	7.4	155.752523	0.15				
0	7.4	155.752462	-0.24				
10	7.4	155.752462	-0.24				
20	7.4	155.752480	-0.13				
30	7.4	155.752508	0.05				
40	7.4	155.752450	-0.32				
50	7.4	155.752435	-0.42				
20	6.2	155.752529	0.19				
20	8.4	155.752504	0.03				

4FSK, 12	4FSK, 12.5kHz, Reference Frequency: 155.7525 MHz, Limit: ±5.0 ppm						
Temperature (°C)	Voltage Supplied (V _{DC})	Measured Frequency (MHz)	Frequency Error (ppm)				
-30	7.4	155.752473	-0.17				
-20	7.4	155.752476	-0.15				
-10	7.4	155.752528	0.18				
0	7.4	155.752433	-0.43				
10	7.4	155.752454	-0.30				
20	7.4	155.752480	-0.13				
30	7.4	155.752469	-0.20				
40	7.4	155.752459	-0.26				
50	7.4	155.752484	-0.10				
20	6.2	155.752448	-0.33				
20	8.4	155.752520	0.13				

FCC Part 22:

FM, 12.	FM, 12.5kHz, Reference Frequency: 150.8125 MHz, Limit: ±5.0 ppm						
Temperature (℃)	$\begin{array}{c} \textbf{Voltage Supplied} \\ \textbf{(V}_{DC}) \end{array}$	Measured Frequency (MHz)	Frequency Error (ppm)				
-30	7.4	150.812460	-0.27				
-20	7.4	150.812515	0.10				
-10	7.4	150.812487	-0.09				
0	7.4	150.812480	-0.13				
10	7.4	150.812440	-0.40				
20	7.4	150.812480	-0.13				
30	7.4	150.812467	-0.22				
40	7.4	150.812518	0.12				
50	7.4	150.812489	-0.07				
20	6.2	150.812482	-0.12				
20	8.4	150.812504	0.03				

4FSK, 12	4FSK, 12.5kHz, Reference Frequency: 150.8125 MHz, Limit: ±5.0 ppm						
Temperature (°C)	$ \begin{array}{c} \textbf{Voltage Supplied} \\ \textbf{(V}_{DC}) \end{array} $	Measured Frequency (MHz)	Frequency Error (ppm)				
-30	7.4	150.812435	-0.43				
-20	7.4	150.812520	0.13				
-10	7.4	150.812439	-0.40				
0	7.4	150.812526	0.17				
10	7.4	150.812476	-0.16				
20	7.4	150.812480	-0.13				
30	7.4	150.812466	-0.23				
40	7.4	150.812506	0.04				
50	7.4	150.812493	-0.05				
20	6.2	150.812499	-0.01				
20	8.4	150.812432	-0.45				

FM, 25	FM, 25kHz, Reference Frequency: 150.8125 MHz, Limit: ±5.0 ppm						
Temperature (°C)		Measured Frequency (MHz)	Frequency Error (ppm)				
-30	7.4	150.812431	-0.46				
-20	7.4	150.812516	0.11				
-10	7.4	150.812448	-0.34				
0	7.4	150.812510	0.07				
10	7.4	150.812445	-0.36				
20	7.4	150.812480	-0.13				
30	7.4	150.812522	0.15				
40	7.4	150.812441	-0.39				
50	7.4	150.812495	-0.03				
20	6.2	150.812435	-0.43				
20	8.4	150.812481	-0.13				

FCC §90.214 - TRANSIENT FREQUENCY BEHAVIOR

Applicable Standard

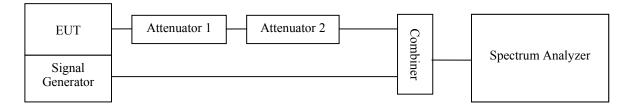
Regulations: FCC §90.214

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 P₀.
- f) Turn off the transmitter.
- g) Adjust the RF level of the signal generator to provide RF power equal to P₀. 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 t₁ and t₂.
- 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 t₃.



Test Data

Environmental Conditions

Temperature:	27.8°C	
Relative Humidity: 63 %		
ATM Pressure:	100.4 kPa	
Tester:	Blake Yang	
Test Date:	2019-10-11	

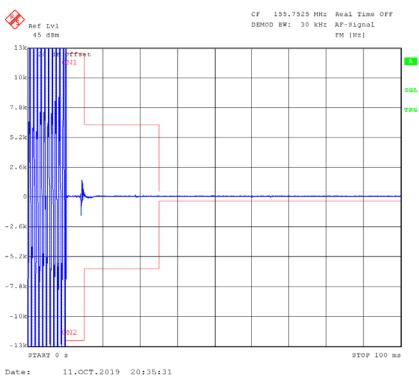
Channel Spacing (kHz)	Transient Period (ms)	Transient Frequency	Result
12.5	<5(t ₁)	±12.5 kHz	Pass
	<20(t ₂)	±6.25 kHz	
	<5(t ₃)	±12.5 kHz	

Please refer to the following plots.

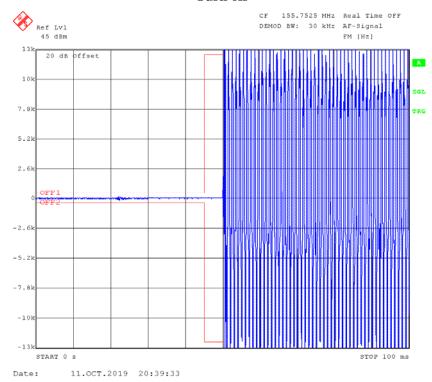
High Power

Turn on

Report No.: RDG190929002-00A



Turn off



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