

TEST REPORT

Report No.:	BCTC2011875281-1E
Applicant:	ELITEGROUP COMPUTER SYSTEMS CO., LTD
Product Name:	tablet PC
Model/Type Ref.:	TG10MK
Tested Date:	2020-11-30 to 2020-12-03
Issued Date:	2020-12-03

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AEKR-TG10MK

Product Name:	tablet PC			
Trademark:	N/A			
Model/Type Ref.:	TG10MK M104ETx, TG10MKx			
Prepared For:	ELITEGROUP COMPUTER SYSTEMS CO., LTD			
Address:	No. 239, Sec. 2 Ti Ding Blvd., Taipei, Taiwan 94954			
Manufacturer:	Shenzhen NST Industry and Trade Co., Ltd			
Address:	3/F, Bldg 1, Hongbang Technology Park, No.30 Cuibao Road, Baolong Street, Longgang District, Shenzhen, China			
Prepared By:	Shenzhen BCTC Testing Co., Ltd.			
Address:	1-2/F., East of B Building, Pengzhou Industrial Park, Fuyuan 1st R oad, Qiaotou, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China			
Sample Received Date:	2020-11-30			
Sample tested Date:	2020-11-30 to 2020-12-03			
Issue Date:	2020-12-03			
Report No.:	BCTC2011875281-1E			
Test Standards	FCC Part15.247 ANSI C63.10-2013			
Test Results	PASS			
Remark:	This is Bluetooth Classic radio test report.			

Tested by:

Willem Wong

Willem Wang/Project Handler



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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2011875281-1E	2020-12-03	Original	Valid



2. TEST SUMMARY

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Conducted emission AC power port	§15.207	PASS
2	Conducted peak output power for FHSS	§15.247(b)(1)	PASS
3	20dB Occupied bandwidth	§15.247(a)(1)	PASS
4	Number of hoppingfrequencies	§15.247(a)(1)(iii)	PASS
5	Dwell Time	§15.247(a)(1)(iii)	PASS
6	Spurious RF conducted emissions	§15.247(d)	PASS
7	Band edge	§15.247(d)	PASS
8	Spurious radiated emissions for transmitter	§15.247(d) & §15.209 & §15.205	PASS
9	Antenna Requirement	15.203	PASS



3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
3	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
4	Conducted Adjacent channel power	U=1.38dB
5	Conducted output power uncertainty Above 1G	U=1.576dB
6	Conducted output power uncertainty below 1G	U=1.28dB
7	humidity uncertainty	U=5.3%
8	Temperature uncertainty	U=0.59°C



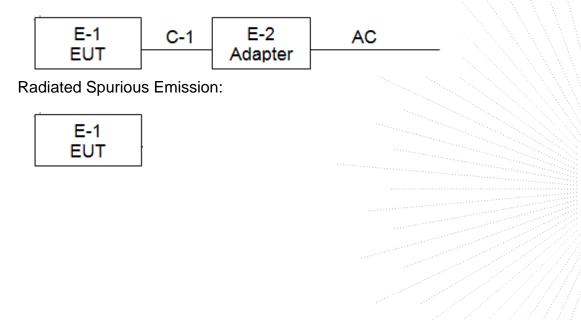
4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model/Type Ref.:	TG10MK M104ETx, TG10MKx
Model differences:	All the model are the same circuit and RF module, except model names and color
Bluetooth Version:	BT 5.0
Hardware Version:	RC-F716-TC U1.0
Software Version:	F716U_TC.Q0.V4.24.RC-V01.8168.64
Operation Frequency:	Bluetooth: 2402-2480MHz
Type of Modulation:	Bluetooth: GFSK, Pi/4 DQPSK, 8DPSK
Number Of Channel	79CH
Antenna installation:	Bluetooth: FPCB antenna
Antenna Gain:	Bluetooth: 2.36dBi
Ratings:	DC 5V from adapter
A denter laferantica.	DC 3.7V from Battery
Adapter Information:	Model No.:K-T100502000U Input: AC 100-240V 50/60Hz 0.35A Max Output: DC 5V 2A

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment. Conducted Emission:





4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Data Cable	Power Cord
E-1	tablet PC	N/A	TG10MK	N/A	EUT	E-1
E-2	Adapter	N/A	K-T100502 000U	N/A	Auxiliary	E-2

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.6M	DC cable unshielded

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

Ona			1				
СН	Frequency (MHz)	СН	Frequency (MHz)	СН	Frequency (MHz)	СН	Frequency (MHz)
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	79	1



4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Mode	Test mode	Low channel	Middle channel	High channel			
1	Transmitting(GFSK)	2402MHz	2441MHz	2480MHz			
2	Transmitting(Pi/4DQPSK)	2402MHz	2441MHz	2480MHz			
3	Transmitting(8DPSK)	2402MHz	2441MHz	2480MHz			
4	Transmitting (conducted emission&Radiated emission)						

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test

4.6 table of parameters of text software setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	SecureCRT		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters	DEF	DEF	DEF



5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., East of B Building, Pengzhou Industrial Park, Fuyuan 1st Road, Qiaotou, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

5.2 Test Instrument Used

	Conducted emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
Receiver	R&S	ESR3	102075	Jun. 08, 2020	Jun. 07, 2021	
LISN	R&S	ENV216	101375	Jun. 04, 2020	Jun. 03, 2021	
ISN	HPX	ISN T800	S1509001	Jun. 04, 2020	Jun. 03, 2021	
Software	Frad	EZ-EMC	EMC-CON 3A1	١	\	

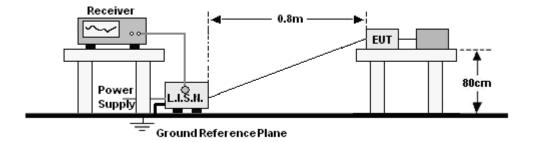


	Radiated emissions Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023	
Receiver	R&S	ESR3	102075	Jun. 08, 2020	Jun. 07, 2021	
Receiver	R&S	ESRP	101154	Jun. 08, 2020	Jun. 07, 2021	
Amplifier	Schwarzbeck	BBV9718	9718-309	Jun. 04, 2020	Jun. 03, 2021	
Amplifier	Schwarzbeck	BBV9744	9744-0037	Jun. 04, 2020	Jun. 03, 2021	
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	VULB9163- 942	Jun. 08, 2020	Jun. 07, 2021	
Horn Antenna	SCHWARZBE CK	BBHA9120 D	1201	Jun. 10, 2020	Jun. 09, 2021	
Horn Antenna (18GHz-40 GHz)	SCHWARZBE CK	BBHA9170	822	Jun. 10, 2020	Jun. 09, 2021	
Amplifier (18GHz-40 GHz)	MITEQ	TTA1840-3 5-HG	2034381	Jun. 08, 2020	Jun. 07, 2021	
Loop Antenna (9KHz-30M Hz)	SCHWARZBE CK	FMZB1519 B	014	Jun. 08, 2020	Jun. 07, 2021	
RF cables1 (9kHz-30MH z)	Huber+Suhnar	9kHz-30M Hz	B1702988- 0008	Jun. 08, 2020	Jun. 07, 2021	
RF cables2 (30MHz-1G Hz)	Huber+Suhnar	30MHz-1G Hz	1486150	Jun. 08, 2020	Jun. 07, 2021	
RF cables3 (1GHz-40G Hz)	Huber+Suhnar	1GHz-40G Hz	1607106	Jun. 08, 2020	Jun. 07, 2021	
Power Metter	Keysight	E4419B	١	Jun. 08, 2020	Jun. 07, 2021	
Power Sensor (AV)	Keysight	E9 300A	λ	Jun. 08, 2020	Jun. 07, 2021	
Signal Analyzer 20kHz-26.5 GHz	KEYSIGHT	N9020A	MY491000 60	Jun. 04, 2020	Jun. 03, 2021	
Spectrum Analyzer 9kHz-40G Hz	Agilent	FSP40	100363	Jun. 13, 2020	Jun. 12, 2021	
Software	Frad	EZ-EMC	FA-03A2 RE		١	



6. CONDUCTED EMISSIONS

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)		
	Quas-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	
Notes: 1. *Decreasing linearly with logarithm of frequency.			

2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

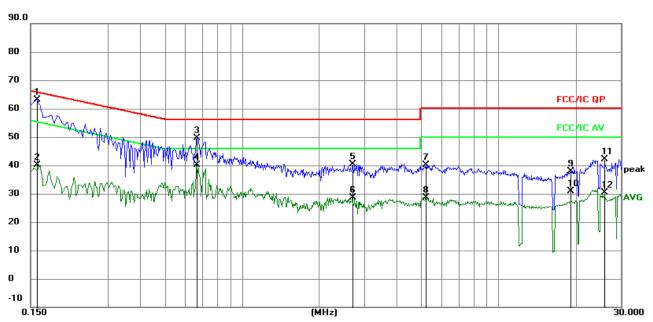
6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



6.5 Test Result

Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 4



Remark:

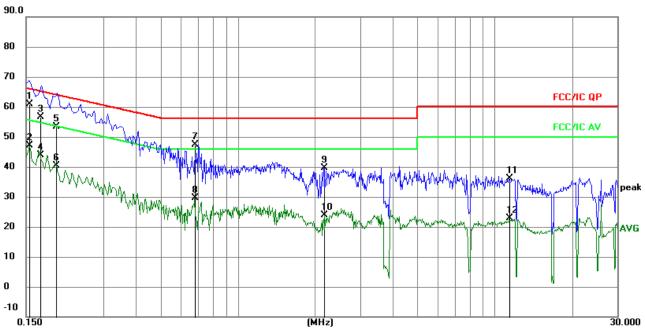
1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.

No.	Mk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1	* 0.1590	53.67	9.51	63.18	65.52	-2.34	QP
2	0.1590	30.60	9.51	40.11	55.52	-15.41	AVG
3	0.6675	39.86	9.76	49.62	56.00	-6.38	QP
4	0.6675	30.36	9.76	40.12	46.00	-5.88	AVG
5	2.7015	30.73	9.64	40.37	56.00	-15.63	QP
6	2.7015	18.89	9.64	28.53	46.00	-17.47	AVG
7	5.2080	30.30	9.79	40.09	60.00	-19.91	QP
8	5.2080	18.94	9.79	28.73	50.00	-21.27	AVG
9	19.0545	28.01	9.77	37.78	60.00	-22.22	QP
10	19.0545	21.08	9.77	30.85	50.00	-19.15	AVG
11	25.9980	32.35	9.74	42.09	60.00	-17.91	QP
12	25.9980	20.75	9.74	30.49	50.00	-19.51	AVG



Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101kPa	Phase :	Ν
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 4



Remark:

1. All readings are Quasi-Peak and Average values.

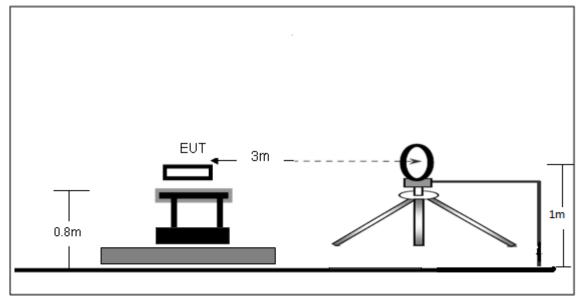
2. Factor = Insertion Loss + Cable Loss.

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1 *	0.1545	51.41	9.51	60.92	65.75	-4.83	QP
2	0.1545	37.70	9.51	47.21	55.75	-8.54	AVG
3	0.1703	47.03	9.50	56.53	64.95	-8.42	QP
4	0.1703	34.28	9.50	43.78	54.95	-11.17	AVG
5	0.1965	43.86	9.46	53.32	63.76	-10.44	QP
6	0.1965	30.90	9.46	40.36	53.76	-13.40	AVG
7	0.6809	37.63	9.72	47.35	56.00	-8.65	QP
8	0.6809	20.03	9.72	29.75	46.00	-16.25	AVG
9	2.1705	30.12	9.60	39.72	56.00	-16.28	QP
10	2.1705	14.40	9.60	24.00	46.00	-22.00	AVG
11	11.4270	26.50	9.69	36.19	60.00	-23.81	QP
12	11.4270	13.11	9.69	22.80	50.00	-27.20	AVG

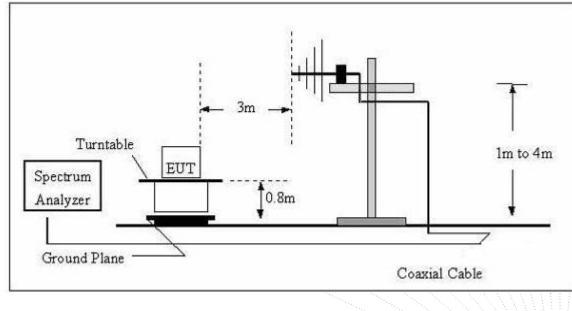


7. RADIATED EMISSIONS

- 7.1 Block Diagram Of Test Setup
 - (A) Radiated Emission Test-Up Frequency Below 30MHz

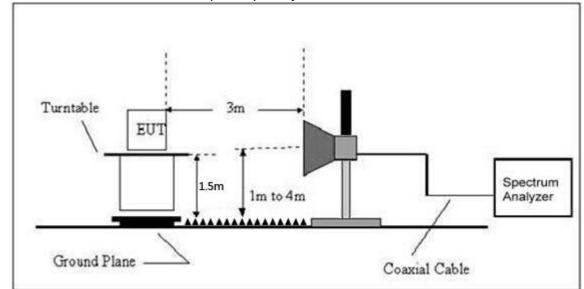


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance		
(MHz)	uV/m	(m)	uV/m	dBuV/m	
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80	
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40	
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40	
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾	
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾	
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾	
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾	

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENC	Limit (dBuV/m) (at 3M)		
Y (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).



FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 - 500	2000
500 – 1000	5000
Above 1000	10 th harmonic of the highest frequency or 40 GHz, whichever is lower

7.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Spectrum Parameter	Setting		
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average		

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).

h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g.Test the EUT in the lowest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



7.5 Test Result

Below 30MHz

Temperature:	26 ℃	Relative Humidtity:	24%
Pressure:	101 kPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 4	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

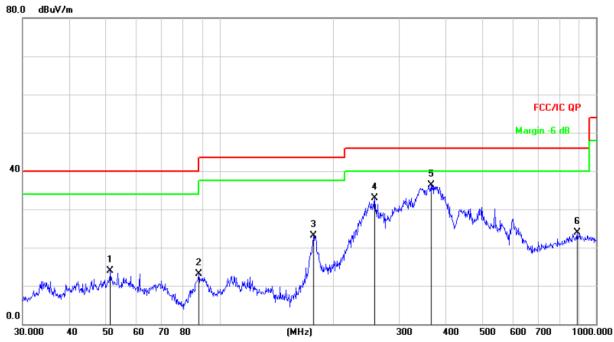
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



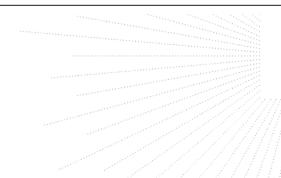
	Between Solving – TGHZ				
Temperature:	26 ℃	Relative Humidtity:	54%		
Pressure:	101 kPa	Test Voltage :	DC 3.7V		
Test Mode :	Mode 4	Polarization :	Horizontal		





Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		51.3005	28.10	-14.16	13.94	40.00	-26.06	QP
2		88.0329	30.93	-17.89	13.04	43.50	-30.46	QP
3		177.5092	39.91	-16.81	23.10	43.50	-20.40	QP
4		258.3264	46.92	-13.93	32.99	46.00	-13.01	QP
5	*	364.2595	47.04	-10.67	36.37	46.00	-9.63	QP
6		890.7278	24.15	-0.20	23.95	46.00	-22.05	QP





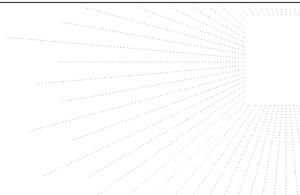
Temperature:	26 ℃	Relative Humidtity:	54%
Pressure:	101 kpa	Test Voltage :	DC 3.7V
Test Mode :	Mode 4	Polarization :	Vertical

80.0 dBuV/m



Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		35.3750	33.84	-15.48	18.36	40.00	-21.64	QP
2	*	52.0251	35.84	-14.20	21.64	40.00	-18.36	QP
3		91.4949	34.74	-17.19	17.55	43.50	-25.95	QP
4	:	252.9482	36.47	-14.12	22.35	46.00	-23.65	QP
5		351.7079	37.67	-11.02	26.65	46.00	-19.35	QP
6	4	432.5457	36.28	-8.99	27.29	46.00	-18.71	QP





Report No.: BCTC2011875281-1E

Between 1GHz – 25GHz

Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
		G	FSK Low cl	nannel			
V	4804.00	54.39	-0.43	53.96	74.00	-20.04	PK
V	4804.00	45.33	-0.43	44.90	54.00	-9.10	AV
V	7206.00	46.02	8.31	54.33	74.00	-19.67	PK
V	7206.00	36.53	8.31	44.84	54.00	-9.16	AV
Н	4804.00	51.00	-0.43	50.57	74.00	-23.43	PK
Н	4804.00	41.98	-0.43	41.55	54.00	-12.45	AV
Н	7206.00	44.61	8.31	52.92	74.00	-21.08	PK
Н	7206.00	37.38	8.31	45.69	54.00	-8.31	AV
	-	GF	SK Middle (channel			
V	4882.00	51.60	-0.38	51.22	74.00	-22.78	PK
V	4882.00	44.72	-0.38	44.34	54.00	-9.66	AV
V	7323.00	44.28	8.83	53.11	74.00	-20.89	PK
V	7323.00	36.15	8.83	44.98	54.00	-9.02	AV
Н	4882.00	48.25	-0.38	47.87	74.00	-26.13	PK
Н	4882.00	37.88	-0.38	37.50	54.00	-16.50	AV
Н	7323.00	42.80	8.83	51.63	74.00	-22.37	PK
Н	7323.00	34.18	8.83	43.01	54.00	-10.99	AV
		G	-SK High c	hannel			
V	4960.00	53.38	-0.32	53.06	74.00	-20.94	PK
V	4960.00	44.87	-0.32	44.55	54.00	-9.45	AV
V	7440.00	46.99	9.35	56.34	74.00	-17.66	PK
V	7440.00	36.10	9.35	45.45	54.00	-8.55	AV
Н	4960.00	50.91	-0.32	50.59	74.00	-23.41	PK
Н	4960.00	40.40	-0.32	40.08	54.00	-13.92	AV
Н	7440.00	45.92	9.35	55.27	74.00	-18.73	PK
Н	7440.00	38.80	9.35	48.15	54.00	-5.85	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

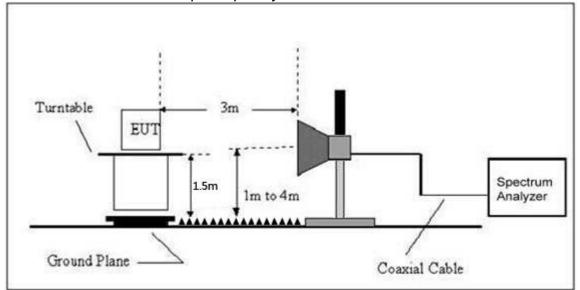
5.All the Modulation are test, the worst mode is GFSK, the data recording in the report.



8. RADIATED BAND EMISSION MEASUREMENT AND RESTRICTED BANDS OF OPERATION

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENC	Limit (dBuV/	/m) (at 3M)
Y (MHz)	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3)Emission level (dBuV/m)=20log Emission level (uV/m).



8.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g.Test the EUT in the lowest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

8.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



8.5 Test Result

	Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	me (dBu	sure- ent V/m)	Over	Result			
			· · · ·	、	PK	□PK	AV	PK				
			<u>l</u>	ow Chanr	nel 2402MHz							
	Н	2390.00	56.53	-6.70	49.83	74.00	54.00	-24.17	PASS			
	Н	2400.00	47.77	-6.71	41.06	74.00	54.00	-32.94	PASS			
	V	2390.00	56.51	-6.70	49.81	74.00	54.00	-24.19	PASS			
GFSK	V	2400.00	49.26	-6.71	42.55	74.00	54.00	-31.45	PASS			
Gran			F	ligh Chani	nel 2480MHz							
	Н	2483.50	56.59	-6.79	49.80	74.00	54.00	-24.20	PASS			
	Н	2485.00	48.41	-6.81	41.60	74.00	54.00	-32.40	PASS			
	V	2483.50	56.79	-6.79	50.00	74.00	54.00	-24.00	PASS			
	V	2485.00	48.98	-6.81	42.17	74.00	54.00	-31.83	PASS			
	Low Channel 2402MHz											
	Н	2390.00	57.50	-6.70	50.80	74.00	54.00	-23.2	PASS			
	Н	2400.00	48.93	-6.71	42.22	74.00	54.00	-31.78	PASS			
Pi/4	V	2390.00	57.50	-6.70	50.80	74.00	54.00	-23.20	PASS			
	V	2400.00	49.44	-6.71	42.73	74.00	54.00	-31.27	PASS			
DQPSK	High Channel 2480MHz											
	Н	2483.50	57.94	-6.79	51.15	74.00	54.00	-22.85	PASS			
	Н	2485.00	50.28	-6.81	43.47	74.00	54.00	-30.53	PASS			
	V	2483.50	57.31	-6.79	50.52	74.00	54.00	-23.48	PASS			
	V	2485.00	48.86	-6.81	42.05	74.00	54.00	-31.95	PASS			
			L	ow Chanr	nel 2402MHz							
	Н	2390.00	57.08	-6.70	50.38	74.00	54.00	-23.62	PASS			
	Н	2400.00	49.12	-6.71	42.41	74.00	54.00	-31.59	PASS			
	V	2390.00	56.95	-6.70	50.25	74.00	54.00	-23.75	PASS			
8DPSK	V	2400.00	49.64	-6.71	42.93	74.00	54.00	-31.07	PASS			
ODESK			ŀ	ligh Chan	nel 2480MHz							
	Н	2483.50	56.51	-6.79	49.72	74.00	54.00	-24.28	PASS			
	Н	2485.00	49.59	-6.81	42.78	74.00	54.00	-31.22	PASS			
	V	2483.50	55.06	-6.79	48.27	74.00	54.00	-25.73	PASS			
	V	2485.00	47.22	-6.81	40.41	74.00	54.00	-33.59	PASS			

Remark:

1. Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Over= Emission Level - Limit

2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



9. CONDUCTED EMISSION

9.1 Block Diagram Of Test Setup



9.2 Limit

Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.209(a) (see §15.205(c))

9.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

2. Set the spectrum analyzer:

Below 30MHz:

RBW = 100kHz, VBW = 300kHz, Sweep = auto

Detector function = peak, Trace = max hold

Above 30MHz:

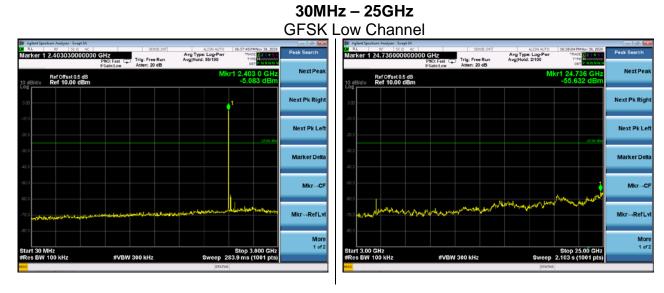
RBW = 100KHz, VBW = 300KHz, Sweep = auto

Detector function = peak, Trace = max hold

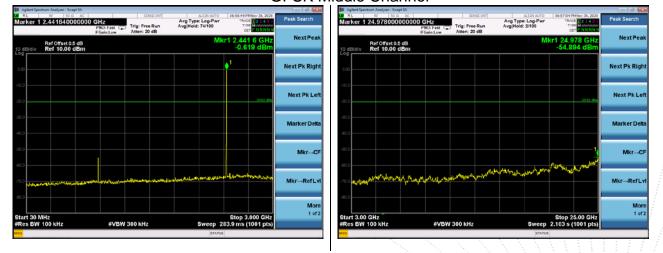


9.4 Test Result

Temperature :	26 ℃	Relative Humidity :	54%
Test Voltage :	DC 3.7V	Remark:	N/A



GFSK Middle Channel



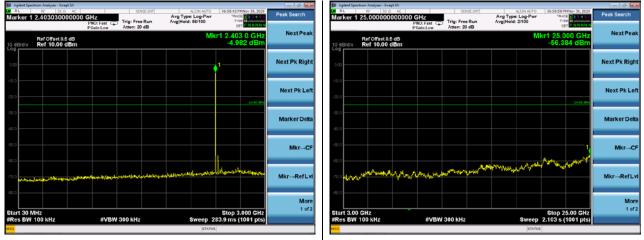
GFSK High Channel

Peak Search	06.54.59 PMNor 38, 2028 TRACE 2 3 4 5 1 TYPE MUNICIPAL	Aug Type: Log-Pwr Avg Hold:>100/100	ISE.IVT		GHz	480250000000	RL larker 1
NextPeal	r1 2.480 3 GHz -1.914 dBm		dB	Atten: 20	PNO: Fast G	Ref Offset 0.5 dB Ref 10.00 dBm	0 dB/div
Next Pk Righ	↑ ¹						
Next Pk Le	-21 51 404						20.0
Marker Delt							20.0
Mkr→C	Į						60.0
Mkr→RefL	Martin all days and	موهمار بحودم امري ې ديارو او	وراوديسوس	polansa Andra	and an	and the construction of the second	70.0
Mor 1 of	Stop 3.000 GHz 83.9 ms (1001 pts)	Sween 2		300 kHz	±VB₩		Start 30 M
		SWCCP Z		500 KH2	94 D 11	55 KH2	sa

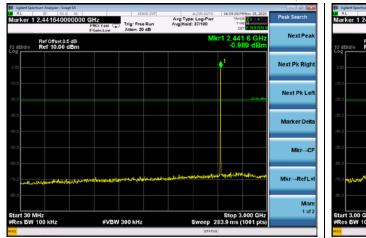
Report No.: BCTC2011875281-1E



Pi/4 DQPSK Low Channel



Pi/4 DQPSK Middle Channel





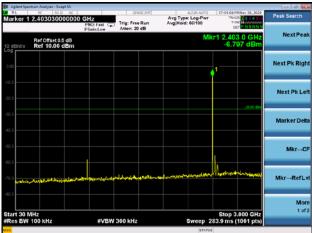
Pi/4 DQPSK High Channel

0 dB/div Ref	Offset 0.5 dB ' 10.00 dBm					MI	(r1 2.48 -3.9	0 3 GHz 04 dBm	NextPeak
							• ¹		Next Pk Righ
0.0								-23 50 dbm	Next Pk Lef
0.0									Marker Delta
60.0							1		Mkr→Cf
	adaran fungakaran pak	-Mathanaint-an	eenthalisteen	nelolonen	an dina	a for the second se	J.,.asso	hogon with	Mkr⊸RefLv
tart 30 MHz Res BW 100			300 kHz				Stop 3	.000 GHz (1001 pts)	More 1 of 3

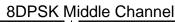
Report No.: BCTC2011875281-1E

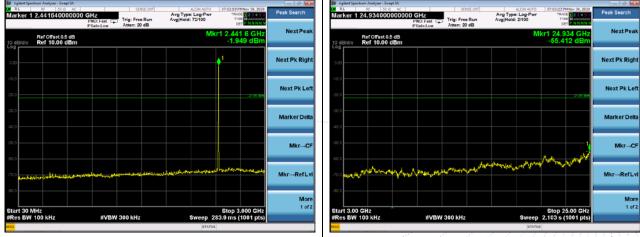


8DPSK Low Channel









8DPSK High Channel

RL RF 50 R AC Marker 1 2.480250000000	GHZ PNO: Fast	SENSE.IVI	Avg Type: Log-Pw Avg Hold: 57/100	TRACE	Nor 38, 2028	Peak Search
Ref Offset 0.5 dB 0 dB/d/v Ref 10.00 dBm	IFGain:Low	Atten: 20 dB	N	⁰⁶⁷ الاr1 2.480 -3.06		Next Peak
0.00				•1		Next Pk Righ
0.0					-27.05 #04	Next Pk Lef
00.0						Marker Delt
						Mkr→Cl
0.0 Managalan and Managalan and	entretangi antak	alterne and a strength of the second strengt	مراده رواد المحيار في المحالي المالي المالي	مميندانالم	lown	Mkr⊸RefLv
itart 30 MHz Res BW 100 kHz		300 kHz	Oween	Stop 3.0 283.9 ms (1		More 1 of 3

Report No.: BCTC2011875281-1E



GFSK Transmitting Band edge-left side

Agine Spectrum Analyzer - Swept SA Image: Spectrum Analyzer - Swept SA Narker 1 2.402000000000 GHz Avg Type: Log-Pwr Arg Hold:>100/100 Trace I 2.402 0 GHz Trace I 2.402 0 GHz Arg Type: Log-Pwr Arg Hold:>100/100 Trace I 2.402 0 GHz Trace I 2.402 0 GHz 4.279 dBm Peak Search Ref 0ffset 0.5 dB 0 dB/d/w Mkr 1 2.402 0 GHz 4.279 dBm Next Pk Rig Mkr Hold B Next Pk Rig Mkr Hold B 10 dB/d/w Ref 10.00 dBm Image: Spectrum Analyzer - Spectrum Argentia
Rarker 1 2.402000000000 GHz Avg Type: Log-Pwr Trace 12.402 Peak Search PNO: Fast Trig: Free Run Avg Type: Log-Pwr Trine 12.402 Next Peak Ref Offset 0.5 dB Mkr1 2.402 0 GHz Next Peak Next Peak 0 dB/div Ref 10.00 dBm -4.279 dBm Next Pk Rig 0 00 3 -4.279 dBm Next Pk Rig 0 00 -4.279 dBm -4.279 dBm Next Pk Rig 0 00 -4.00 -4.279 dBm Next Pk Log 0 00 -4.00 -4.279 dBm Next Pk Log 0 00 -4.279 dBm -4.279 dBm Next Pk Log 0 00 -4.279 dBm -4.279 dBm Next Pk Log 0 00 -4.279 dBm -4.279 dBm Next Pk Log 0 00 -4.279 dBm -4.279 dBm Ne
Ref Offset 0.5 dB Mkr1 2.402 0 GHz Ref Offset 0.5 dB Mkr1 2.402 0 GHz Ref Offset 0.5 dB Mkr1 2.402 0 GHz 000
Ref Offset 0.5 dB Mkr1 2.402 0 GHz 000 -4.279 dBm 001 -4.279 dBm 002 -4.279 dBm 003 -4.279 dBm 004 -4.279 dBm 005 -4.279 dBm 005 -4.279 dBm 006 -4.279 dBm 007 -4.279 dBm 008 -4.279 dBm 009 -4.279 dBm 000 -4.279 dBm
Ref Offset 0.5 dB Mkr1 2.402 0 GHz 0 dB/div Ref 10.00 dBm 0 dB/div -4.279 d
Ref Offset 0.5 dB MKr1 2.402 0 GH2 0 dB/div -4.279 dBm 0 aB/div -4.279 dBm Next Pk Lg Next Pk Lg Next Pk Lg Marker De 0 aB/div -4.279 dBm 0 aB/div -4.279 d
Op dBrdiv Ref 10.00 dBm -4.279 dBm 0.00
Org
Next Pk Rig Next Pk
100 100
200 21.31000 GHz 3 22.31000 GHz Marker Del Start 2.31000 GHz #VBW 300 KHZ Stop 2.41000 GHz Marker Del Start 2.31000 GHz #VBW 300 KHZ Stop 2.41000 GHz Marker Del
000 400
300 300
Next Pk Lo 50 0 3 2 60 0 3 2 70 0 3 2 70 0 3 2 70 0 3 2 Start 2.31000 GHz #VBW 300 kHz Stop 2.41000 GHz Rese BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) MRR MODE TRC SCL X Y
Store Store Marker De 60 0 0
Stor 3 2 Marker De 700 0
600 3 2 4 Marker De 700 900 3 4
Marker De 800
800 Start 2.31000 GHz Stop 2.41000 GHz Stop 2.41000 GHz Stop 2.41000 GHz Stop 2.41000 GHz Mkr-4 Mkr-4 Mkr-4
Stop Stop 2.41000 GHz Start 2.31000 GHz Stop 2.41000 GHz Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) MKR MODE TRC I SCL X Y FUNCTION INDITH FUNCTION VALUE
Start 2.31000 GHz #Res BW 100 kHz Stop 2.41000 GHz #VBW 300 kHz Stop 2.41000 GHz Sweep 9.600 ms (1001 pts) Mkr-0 MKR_MODE TRC SCL X Y FUNCTION VIDITH FU
#Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) Mkr-40 MKR MODE TRC SCL X Y FUNCTION INDITH FUNCTION VALUE A
Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) Mkr-40 MRR_MODE_TRC[SCL] X Y FUNCTION VIDITH FUN
IKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2402 0 GHz 4279 dBm
2 N 1 f 2.400 0 GHz -67.168 dBm
3 N 1 f 2.362 4 GHz -68.534 dBm Mkr→RefL
4
9
10 10 10 10 10 10 10 10 10 10 10 10 10 1
G STATUS

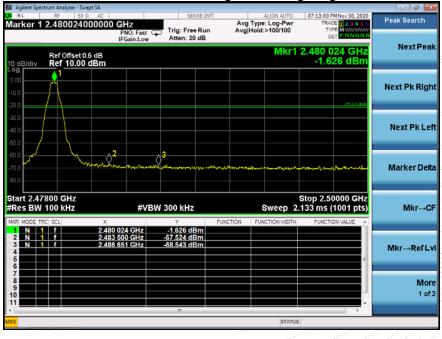
GFSK Hopping Band edge-left side



Report No.: BCTC2011875281-1E

RL	trum Analyzer - Swept : RF 50 Ω	AC	SENSE:INT	ALIGN AUTO	07:07:47 PM Nov 30, 2020	Peak Search
larker 1	2.43000000	DOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run Atten: 20 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNNN	
0 dB/div	Ref Offset 0.5 Ref 10.00 di			Mkr1	2.430 00 GHz 1.623 dBm	NextPe
og 0.00 10.0 20.0						Next Pk Rig
0.0						Next Pk L
i0.0 70.0	17494 ¹ 740	and an	n,			Marker D
tart 2.31 Res BW	100 kHz	#VB	W 300 kHz	Sweep 11	top 2.43000 GHz .53 ms (1001 pts)	Mkr
1 N 1 2 N 1 3 N 1 4 5 6	f	2.430 00 GHz 2.400 0 GHz 2.392 04 GHz	1.623 dBm -70.134 dBm -69.007 dBm	UNCTION FORCEOR WIDTH	POINT HOR VALUE	Mkr→Ref
7 8 9 10						M 1
G				STATUS	,	

GFSK Transmitting Band edge-right side



GFSK Hopping Band edge-right side



Report No.: BCTC2011875281-1E

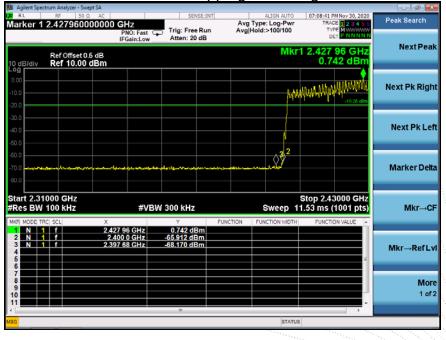
NextPe	PE MWWWWW ET P NNNNN		loid:>100/100	Avg		Trig: Fre Atten: 2	PNO: Fast FGain:Low				
NextPe	50 GHz 52 dBm		Mkr1					idB dBm	ef Offset 0. ef 10.00	liv R	dB/di
Next Pk Rig	-21.35.cBm							1	M		
Next Pk L).0).0).0
Marker De	nt prantinentes	graam fi ^{to} res tyterige	~_^_~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ur of the second second	3 1		~~~~ ²	h.).0).0).0
Mkr→		.400 ms	Sweep 2		Iz	3W 300 KH:	#VI		0 kHz	2.4750 3W 10	les B
Mkr→Refl	ON VALUE	FUNCT	FUNCTION WIDTH	FUNCTION	dBm	+ -1.352 d -70.090 d -68.099 d	50 GHz 00 GHz 75 GHz	2.483 5			N 2 N 3 N
M c 1 c											



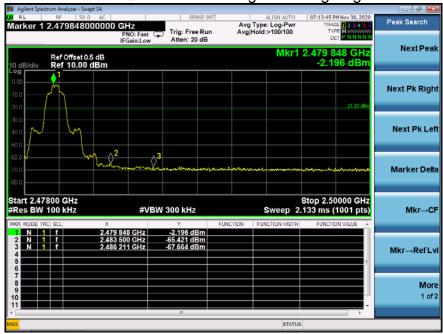
RL	ctrum Analyzer - Swept RF 50 Ω 2.40180000	AC	SENSE:II	Avg	ALIGN AUTO Type: Log-Pwr Hold:>100/100	07:05:59 PM Nov 30, 2 TRACE 2 2 3 4 TYPE M WWW DET P N N N	5 6 F	Peak Search
0 dB/div	Ref Offset 0.5 Ref 10.00 d	dB			Mk	r1 2.401 8 GF -4.985 dB		Next Pea
0.00 10.0 20.0								lext Pk Rig
40.0						21.99		Next Pk L
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7 8 9 0								Мс 1 с
G			m		STATUS	•		

Pi/4 DQPSK Transmitting Band edge-left side

Pi/4 DQPSK Hopping Band edge-left side

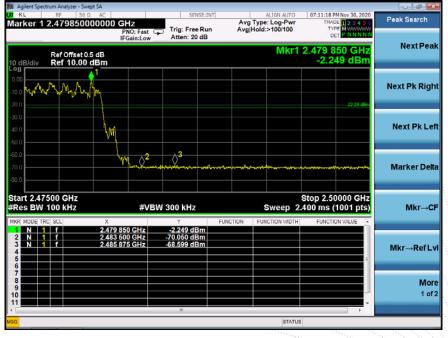






Pi/4 DQPSK Transmitting Band edge-right side

Pi/4 DQPSK Hopping Band edge-right side

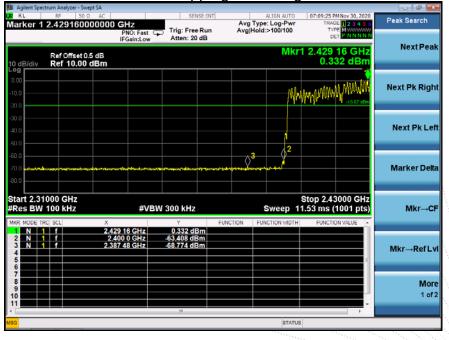




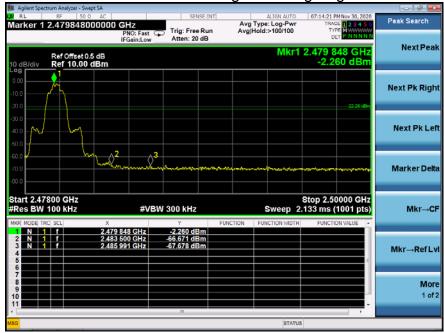
E Agilent Spe	ctrum Analyzer - Swe RF 50 Ω		SENSE:IN	er.	ALIGN AUTO	07:05:17 PM Nov 30, 2020	
	2.4020000	00000 GHz		Avg	Type: Log-Pwr	TRACE 1 2 3 4 5 0	Peak Search
		PNO: Fast (IFGain:Low	Trig: Free Run Atten: 20 dB	Avg	Hold:>100/100	DET P NNNN	
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<u> </u>					arAtus		

8DPSK Transmitting Band edge-left side

8DPSK Hopping Band edge-left side

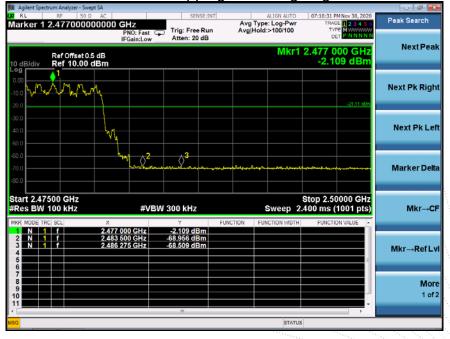






8DPSK Transmitting Band edge-right side

8DPSK Hopping Band edge-right side





10. 20 DB BANDWIDTH

10.1 Block Diagram Of Test Setup



10.2 Limit

N/A

- 10.3 Test procedure
- 1. Set RBW = 30kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.



10.4 Test Result

Temperature :	260	Relative Humidity:	54%	
Test Voltage :	DC 3.7V	Remark	N/A	

Modulation	Test Channel	Bandwidth(MHz)
GFSK	Low	0.824
GFSK	Middle	0.786
GFSK	High	0.789
Pi/4 DQPSK	Low	1.222
Pi/4 DQPSK	Middle	1.223
Pi/4 DQPSK	High	1.236
8DPSK	Low	1.242
8DPSK	Middle	1.248
8DPSK	High	1.252

Test plots GFSK Low Channel





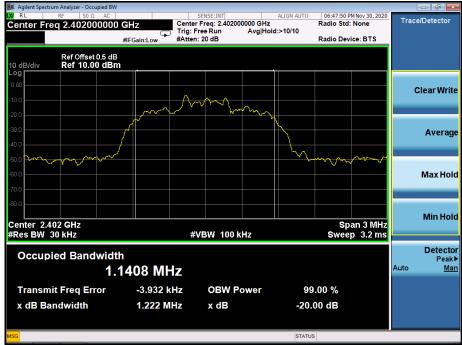


GFSK Middle Channel

GFSK High Channel





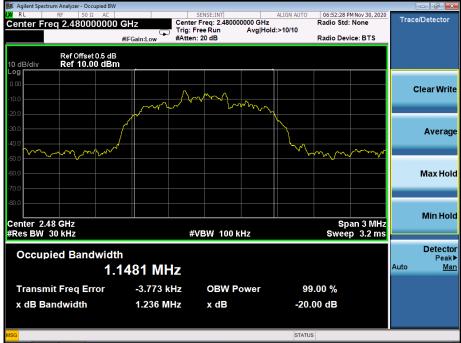


Pi/4 DQPSK Low Channel

Pi/4 DQPSK Middle Channel







Pi/4 DQPSK High Channel

8DPSK Low Channel

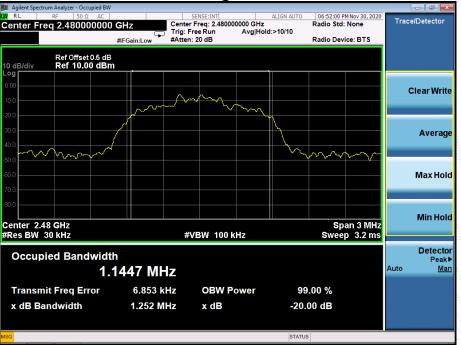






8DPSK Middle Channel

8DPSK High Channel





11. MAXIMUM PEAK OUTPUT POWER

11.1 Block Diagram Of Test Setup



11.2 Limit

	F	-CC Part15 (15.247)	, Subpart C	
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS

11.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 3MHz. VBW = 3MHz. Sweep = auto; Detector Function = Peak.

3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.



11.4 Test Result

Temperature :	260	Relative Humidity:	54%
Test Voltage :	DC 3.7V	Remark:	N/A

Modulation	Test Channel	Output Power (dBm)	Limit (dBm)
GFSK	Low	-4.052	21
GFSK	Middle	-0.206	21
GFSK	High	-1.735	21
Pi/4 DQPSK	Low	-4.787	21
Pi/4 DQPSK	Middle	-0.745	21
Pi/4 DQPSK	High	-2.213	21
8DPSK	Low	-4.763	21
8DPSK	Middle	-0.735	21
8DPSK	High	-2.204	21

Test plots GFSK Low Channel

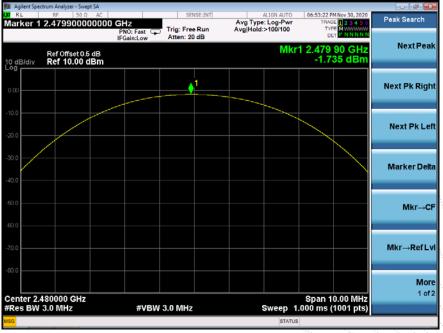




larker 1 2.44085000000	PNO: Fast G IFGain:Low	Trig: Free Run Atten: 20 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 2 3 4 5 6 TYPE MWWWWW DET PNNNNN	Peak Search Next Peak
Ref Offset 0.5 dB 0 dB/div Ref 10.00 dBm			Mkr	1 2.440 85 GHz -0.206 dBm	
•g		↓1 			Next Pk Rig
0.0					Next Pk L
0.0					Marker De
0.0					Mkr→
0.0					Mkr→Refl
enter 2.441000 GHz Res BW 3.0 MHz				Span 10.00 MHz .000 ms (1001 pts)	Мс 1 с

GFSK Middle Channel

GFSK High Channel





Peak Search	6:46:15 PM Nov 30, 2020 TRACE 1 2 3 4 5 6		Ανα Τγρ	ENSE:INT	SE	CH-7	0Ω AC		RL
NextPe	Avg Type: Log-Pwr Avg Hold:>100/100 Type OCT PININN Mkr1 2.401 91 GHz -4.787 dBm			PNO: Fast IFGain:Low Atten: 20 dB			larker 1 2.401910000000 Ref Offset 0.5 dB 0 dB/div Ref 10.00 dBm		
Next Pk Rig				↓ 1					
Next Pk L									0.0
Marker De									0.0
Mkr→									
Mkr→Refi									0.0
Мс 1 с	pan 10.00 MHz 0 ms (1001 pts)	Sweep 1		,	3.0 MHz	#VBM	łz	102000 GH 3.0 MHz	
		STATUS			ene minic	<i>"</i> , 1			G

Pi/4 DQPSK Low Channel

Pi/4 DQPSK Middle Channel

