Report No.: T1861291 06

		1GI	Hz—25G	Hz Rad	iated en	nissison Tes	st result		
EU'	Γ: M.CRA	AFTSMAN	LCM	N	M/N: L0	CM			
Pow	er: DC 1	9V From D	C Port						
Tes	t date: 20	16-08-08	Test site:	3m Ch	amber	Tested by:	Reak		
Tes	t mode: 1	π /4 DQPSI	K Tx Cl	H79 248	80MHz				
Ant	enna pola	rity: Vertic	al						
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960	43.97	33.98	10.22	34.25	53.92	74	20.08	PK
2	4960	32.58	33.98	10.22	34.25	42.53	54	11.47	AV
3	7440	/							
4	9920	/							
5	12400	/							
Ant	enna Pola	arity: Horizo	ontal						
1	4960	42.75	33.98	10.22	34.25	52.7	74	21.3	PK
2	4960	31.72	33.98	10.22	34.25	41.67	54	12.33	AV
3	7440	/							
4	9920	/					_		

## Note:

12400

- 1, Measuring frequency from 1GHz to 25GHz
- 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

1 011	O C CITT	D 11 . 1		TT . 1.
1( tH7—	-25(iHz	Radiated	emissison	Test result

EUT: M.CRAFTSMAN LCM M/N: LCM

Power: DC 19V From DC Port

Test date: 2016-08-08 Test site: 3m Chamber Tested by: Reak

Test mode: 8- DQPSK Tx CH1 2402MHz

Antenna polarity: Vertical

	Jiiii p o iu	110) 01010.							
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804	43.89	33.95	10.18	34.26	53.76	74	20.24	PK
2	4804	33.86	33.95	10.18	34.26	43.73	54	10.27	AV
3	7206	/							
4	9608	/							
5	12010	/							
Ante	enna Pola	rity: Horizo	ontal						
1	4804	42.37	33.95	10.18	34.26	52.24	74	21.76	PK
2	4804	31.91	33.95	10.18	34.26	41.78	54	12.22	AV
3	7206	/							
4	9608	/							
5	12010	/							

- 1, Measuring frequency from 1GHz to 25GHz
- 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Report No.: T1861291 06

		1GH	z—25GH	Iz Radia	ated em	issison Test	result						
EUT:	M.CRAF	FTSMAN L	CM	N	1/N: LC	<sup>2</sup> M							
Powe	r: DC 19	V From DC	Port										
Test c	date: 2016	5-08-08	Γest site:	3m Cha	mber	Tested by:	Reak						
Test r	node: 8- 1	DQPSK Tx	CH40 24	41MHz	Z								
Anten	na polari	ty: Vertical											
No	No Freq (MHz) Read Level (dBuV/m) Result (dBuV/m) Result (dBuV/m) Remark												
1	4882	43.79	33.93	10.2	34.29	53.63	74	20.37	PK				
2	4882	33.12	33.93	10.2	34.29	42.96	54	11.04	AV				
3	7323	/											
4	9764	/											
5	12205	/											
Anten	na Polari	ty: Horizon	tal		•								
1	4882	42.45	33.93	10.2	34.29	52.29	74	21.71	PK				
2	4882	32.23	33.93	10.2	34.29	42.07	54	11.93	AV				
3	3 7323 /												
4	9764	/											
5	12205	/											

- 1, Measuring frequency from 1GHz to 25GHz
- 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

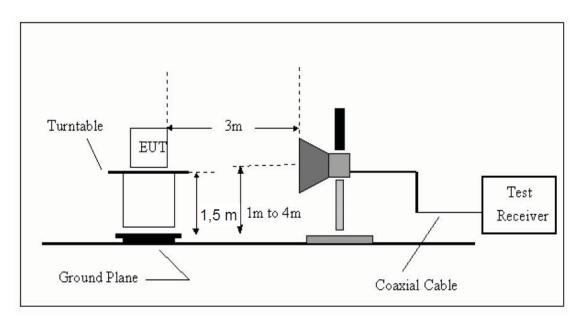
Report No.: T1861291 06

		1GI	Hz—25G]	Hz Rad	iated en	nissison Tes	st result		
EU'	T: M.CR	AFTSMAN	LCM	M	[/N: LC]	M			
Pow	ver: DC	19V From	DC Port						
Test	t date: 20	16-08-08	Test site	e: 3m C	hamber	Tested by	y: Reak		
Test	t mode: 8	- DQPSK	Tx CH79	9 2480N	ИНz				
Ant	enna pola	rity: Vertic	al						
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960	43.97	33.98	10.22	34.25	53.92	74	20.08	PK
2	4960	33.56	33.98	10.22	34.25	43.51	54	10.49	AV
3	7440	/							
4	9920	/							
5	12400	/							
Ant	enna Pola	arity: Horiz	ontal						
1	4960	42.88	33.98	10.22	34.25	52.83	74	21.17	PK
2	4960	32.92	33.98	10.22	34.25	42.87	54	11.13	AV
3	7440	/							
4	9920	/							
5	12400	/							

- 1, Measuring frequency from 1GHz to 25GHz
- 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

# 9. Band Edge Compliance

# 9.1. Block Diagram of Test Setup



# 9.2. Limit

All the lower and upper band-edges emissions appearing within restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

## 9.3. Test Procedure

All restriction band and non- restriction band have been tested , only worse case is reported.

# 9.4. Test Result

#### PASS. (See below detailed test data)

# Radiated Method

GFSK (CH Low)

			Band Ed	dge Test	result							
EUT: M.CRA	FTSMAN	LCM		M/N: L	CM							
Power: DC 19	9V From De	C Port										
Test date: 201	16-08-08	Test site	: 3m Cl	namber	Tested by	: Reak						
Test mode: T	x CH Low 2	2402MHz	Z									
Antenna pola	rity: Vertica	al										
Freq (MHz)	$(MHz) \qquad (dBuV/m) \qquad (dB/m) \qquad B) \qquad (dB) \qquad (dBuV/m) \qquad (dBuV/m) \qquad (dB)$											
2390	45.37	27.62	3.92	34.97	41.94	74	32.06	PK				
A		4 - 1										
Antenna Pola			2.02	24.07	41.40	7.4	22.51	DIZ				
2390	44.92	27.62	3.92	34.97	41.49	74	32.51	PK				
NI-4												

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

# GFSK (CH High)

			Band Ed	dge Test	result						
EUT: M.CRA	AFTSMAN	LCM		M/N: L	CM						
Power: DC 19	9V From D	C Port									
Test date: 20	16-08-08	Test site:	3m Cha	amber	Tested by:	Reak					
Test mode: T	x CH High	2480MH	Z								
Antenna pola	rity: Vertica	al									
Freq (MHz)	$(MHz) \qquad (dBuV/m) \qquad (dB/m) \qquad B) \qquad (dB) \qquad (dBuV/m) \qquad (dB) \qquad (dB)$										
2483.5	45.38	27.89	4	34.97	42.3	74	31.7	PK			
Antenna Pola	rity: Horizo	ntal									
2483.5	46.51	27.89	4	34.97	43.43	74	30.57	PK			
2483.5  Antenna Pola	45.38 rity: Horizo	27.89 ontal	4	34.97	42.3	74	31.7				

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

# GFSK (Hopping Low)

		Band Ed	dge Test	result							
AFTSMAN	LCM		M/N: L	CM							
9V From D	C Port										
16-08-08	Test site	: 3m Cł	namber	Tested by	: Reak						
X											
rity: Vertica	al										
Freq (MHz)         Read (Antenna Level (MHz))         Antenna Level (dBuV/m)         Cable (aBuV/m)         Amp (aBuV/m)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dBuV/m)         Remark           2390         43.96         27.62         3.92         34.97         40.53         74         33.47         PK											
43.96	27.62	3.92	34.97	40.53	74	33.47	PK				
rity: Horizo	ntal										
44.59	27.62	3.92	34.97	41.16	74	32.84	PK				
	PV From Do 16-08-08  x rity: Vertica Read Level (dBuV/m) 43.96	rity: Vertical  Read Antenna Level Factor (dBuV/m) (dB/m)  43.96 27.62  rity: Horizontal	AFTSMAN LCM  9V From DC Port  16-08-08 Test site: 3m Ch  x  rity: Vertical  Read Antenna Cable  Level Factor loss(d  (dBuV/m) (dB/m) B)  43.96 27.62 3.92  rity: Horizontal	AFTSMAN LCM 9V From DC Port 16-08-08 Test site: 3m Chamber x rity: Vertical Read Antenna Cable Amp Level Factor loss(d Factor (dBuV/m) (dB/m) B) (dB) 43.96 27.62 3.92 34.97  rity: Horizontal	PV From DC Port  16-08-08 Test site: 3m Chamber Tested by x  rity: Vertical  Read Antenna Cable Amp Level Factor loss(d Factor (dBuV/m) (dB/m) B) (dB)  43.96 27.62 3.92 34.97 40.53  rity: Horizontal	AFTSMAN LCM  9V From DC Port  16-08-08 Test site: 3m Chamber Tested by: Reak  x  rity: Vertical  Read Antenna Cable Amp Level Factor (dBuV/m) (dB/m) B) (dB)  43.96 27.62 3.92 34.97 40.53 74  rity: Horizontal	AFTSMAN LCM  9V From DC Port  16-08-08 Test site: 3m Chamber Tested by: Reak  x  rity: Vertical  Read Antenna Cable Amp Factor (dBuV/m) (dB/m) B) (dB)  43.96 27.62 3.92 34.97 40.53 74 33.47  rity: Horizontal				

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

# GFSK (Hopping High)

			Band Ed	dge Test	result							
EUT: M.CRA	AFTSMAN	LCM		M/N: L	CM							
Power: DC 19	9V From D	C Port										
Test date: 201	16-08-08	Test site	: 3m Cł	namber	Tested by	: Reak						
Test mode: T	X											
Antenna pola	rity: Vertica	al										
Freq (MHz)	$(MHz) \qquad (dBuV/m) \qquad (dB/m) \qquad B) \qquad (dB) \qquad (dBuV/m) \qquad (dBuV/m) \qquad (dB)$											
2483.5	43.52	27.89	4	34.97	40.44	74	33.56	PK				
Antenna Pola	rity: Horizo	ntal										
2483.5	44.17	27.89	4	34.97	41.09	74	32.91	PK				

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

# $\pi$ /4 DQPSK ( CH Low )

	(							
			Band Ed	dge Test	result			
EUT: M.CRA	AFTSMAN	LCM		M/N: L	CM			
Power: DC 19	9V From D	C Port						
Test date: 201	16-08-08	Test site	: 3m Cl	namber	Tested by	: Reak		
Test mode: T	x CH Low 2	2402MHz	Z					
Antenna pola	rity: Vertica	al						
Г	Read	Antenna		Amp	Result	Limit	Margin	D 1
Freq (MHz)	Level (dBuV/m)	Factor (dB/m)	loss(d B)	Factor (dB)	(dBuV/m)	(dBuV/m)	(dB)	Remark
2390	44.65	27.62	3.92	34.97	41.22	74	32.78	PK
Antenna Pola	rity: Horizo	ntal						
2390	45.81	27.62	3.92	34.97	42.38	74	31.62	PK
Mata								

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

## $\pi$ /4 DQPSK ( CH High )

			Dana L	age rest	resurt			
EUT: M.CRA	AFTSMAN	LCM		M/N: L	CM			
Power: DC 19	9V From D	C Port						
Test date: 20	16-08-08	Test site	: 3m Cl	namber	Tested by	: Reak		
Test mode: T	x CH High	2480MH:	Z					
Antenna pola	rity: Vertica	al						
	Read	Antenna	Cable	Amp	D 1	T ' '	3.4	
Freq	Level	Factor	loss(d	Factor	Result	Limit	Margin	Remark
(MHz)	(dBuV/m)	(dB/m)	B)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
2483.5	43.92	27.89	4	34.97	40.84	74	33.16	PK
Antenna Pola	rity: Horizo	ontal						
2483.5	44.81	27.89	4	34.97	41.73	74	32.27	PK
Note:	<u> </u>	<u> </u>	<u> </u>	<u> </u>	I		1	

Band Edge Test result

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

# $\pi$ /4 DQPSK (Hopping Low)

			Band Ed	dge Test	result			
EUT: M.CRA	AFTSMAN	LCM		M/N: L	CM			
Power: DC 1	9V From D	C Port						
Test date: 20	16-08-08	Test site	: 3m Cl	namber	Tested by	: Reak		
Test mode: T	X							
Antenna pola	rity: Vertica	al						
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	43.65	27.62	3.92	34.97	40.22	74	33.78	PK
Antenna Pola	rity: Horizo	ontal						
2390	44.44	27.62	3.92	34.97	41.01	74	32.99	PK

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

π /4 DQPSK (Hopping High )

			Band Ed	dge Test	result			
EUT: M.CRA	FTSMAN	LCM		M/N: L	CM			
Power: DC 19	V From D	C Port						
Test date: 201	16-08-08	Test site	: 3m Cl	namber	Tested by	: Reak		
Test mode: To	X							
Antenna pola	rity: Vertica	al						
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)		Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	43.56	27.89	4	34.97	40.48	74	33.52	PK
Antenna Pola			Ī	ı	T	<u> </u>	1	
2483.5	44.65	27.89	4	34.97	41.57	74	32.43	PK

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

# 8- DPSK (CH Low)

			Band Ed	dge Test	result			
EUT: M.CRA	AFTSMAN	LCM		M/N: L	CM			
Power: DC 19	9V From D	C Port						
Test date: 20	16-08-08	Test site	: 3m Cl	namber	Tested by	: Reak		
Test mode: T	x CH Low 2	2402MHz	Z					
Antenna pola	rity: Vertica	al						
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	43.99	27.62	3.92	34.97	40.56	74	33.44	PK
Antenna Pola	rity: Horiza	ontal						
2390	44.63	27.62	3.92	34.97	41.2	74	32.8	PK
Antenna Pola 2390	T T		3.92	34.97	41.2	74	32.8	PK

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

8- DPSK (CH High)

0- DI SIX ( C.	11 111 <u>5</u> 11 <i>)</i>							
			Band Ed	dge Test	result			
EUT: M.CRA	AFTSMAN	LCM		M/N: L	CM			
Power: DC 1	9V From D	C Port						
Test date: 20	16-08-08	Test site	: 3m Cl	namber	Tested by	: Reak		
Test mode: T	x CH High	2480MH	Z					
Antenna pola	rity: Vertica	al						
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	43.82	27.89	4	34.97	40.74	74	33.26	PK
Antenna Pola	 arity: Horizo	ontal						
2483.5	44.69	27.89	4	34.97	41.61	74	32.39	PK
Notas	1			I	I		<u> </u>	<u> </u>

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

8- DPSK (Hopping Low)

			Band E	dge Test	result			
EUT: M.CRA	AFTSMAN	LCM		M/N: L	CM			
Power: DC 1	9V From D	C Port						
Test date: 20	16-08-08	Test site	: 3m Cl	namber	Tested by	: Reak		
Test mode: T	x							
Antenna pola	rity: Vertica	al						
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	43.98	27.62	3.92	34.97	40.55	74	33.45	PK
Antenna Pola	 arity: Horizo	ntal						
2390	45.12	27.62	3.92	34.97	41.69	74	32.31	PK
Nictor	1	I		l	1	I	1	I

Rand Edge Test result

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

8- DPSK (Hopping High)

EUT: M.CRA	AFTSMAN	LCM		M/N: L	CM			
Power: DC 1	9V From D	C Port						
Test date: 20	16-08-08	Test site	: 3m Cl	namber	Tested by	: Reak		
Test mode: T	X							
Antenna pola	rity: Vertica	al						
	Read	Antenna	Cable	Amp	D14	T ::4	N / :	
Freq	Level	Factor	loss(d	Factor	Result	Limit (dBuV/m)	Margin (dB)	Remark
(MHz)	(dBuV/m)	(dB/m)	B)	(dB)	(dBuV/m)			
2483.5	44.11	27.89	4	34.97	41.03	74	32.97	PK
Antenna Pola	rity: Horizo	ontal						
2483.5	44.92	27.89	4	34.97	41.84	74	32.16	PK
N.T.								

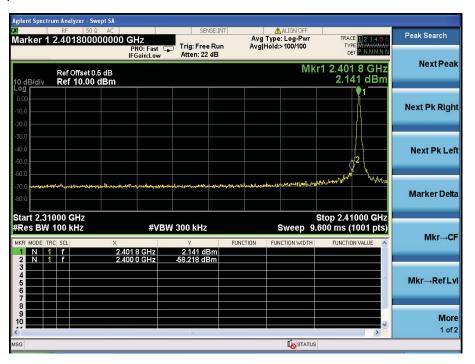
Band Edge Test result

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

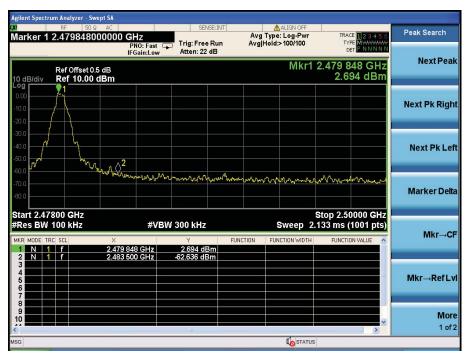
Conducted Method

**GFSK** 

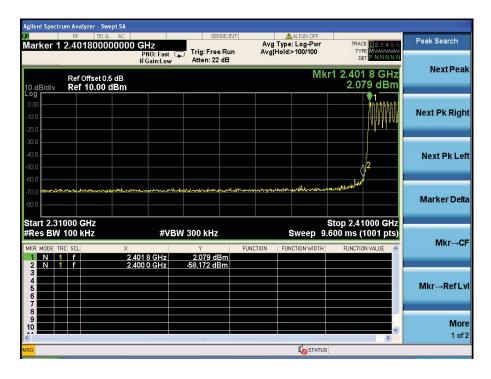
CH LOW:

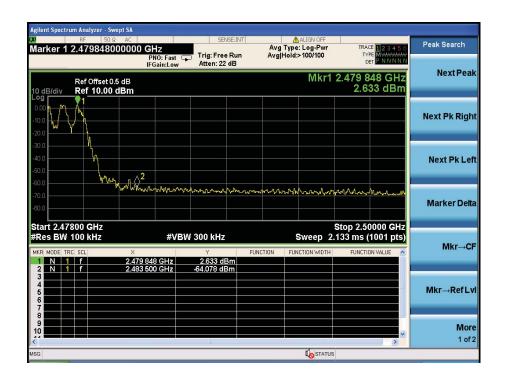


## CH High:



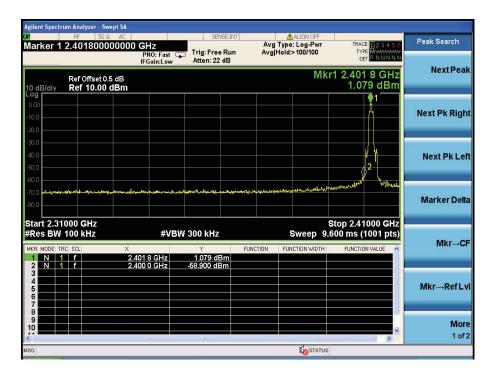
# Hopping Low



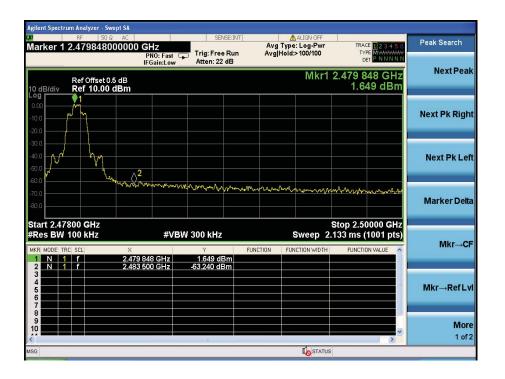


## $\pi$ /4 DQPSK

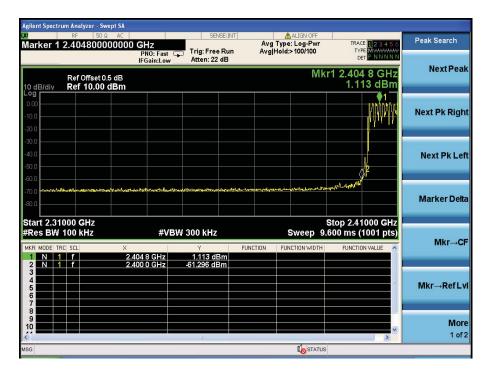
Low

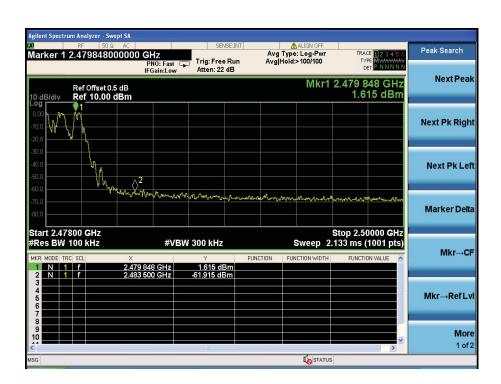


High



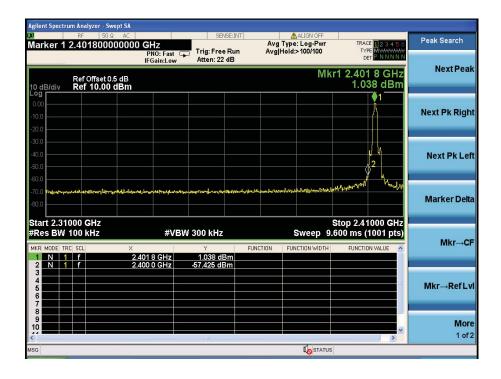
# Hopping Low

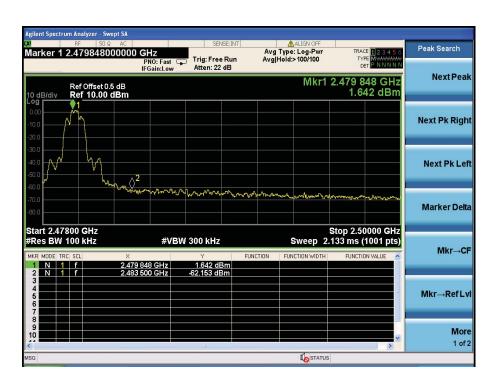




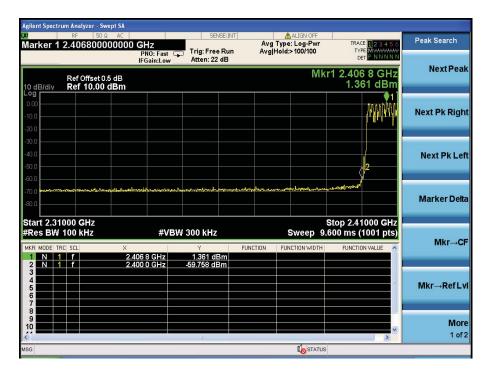
## 8- DPSK:

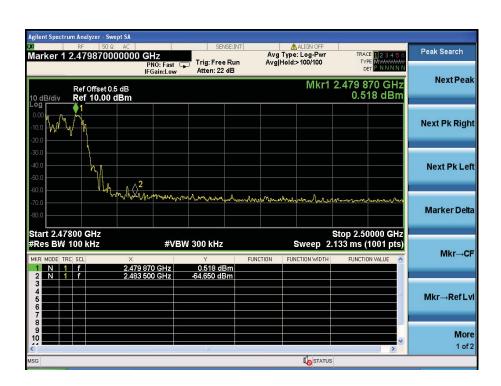
Low





# Hopping Low

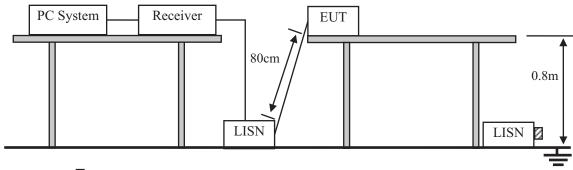




#### Report No.: T1861291 06

## 10. Power Line Conducted Emissions

# 10.1.Block Diagram of Test Setup



 $\mathbf{Z}$ :50 $\Omega$  Terminator

#### 10.2.Limit

	Maximum RF Line Voltage					
Frequency	Quasi-Peak Level	Average Level				
	$dB(\mu V)$	$dB(\mu V)$				
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*				
500kHz ~ 5MHz	56	46				
5MHz ~ 30MHz	60	50				

Notes: 1. \* Decreasing linearly with logarithm of frequency.

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

#### 10.3. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4:2014on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

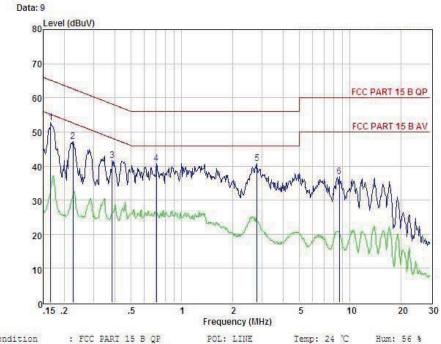
# 10.4. Test Result

# PASS. (See below detailed test data)

Note: If QP Result comply with AV limit, AV Result is deemed to comply with AV limit



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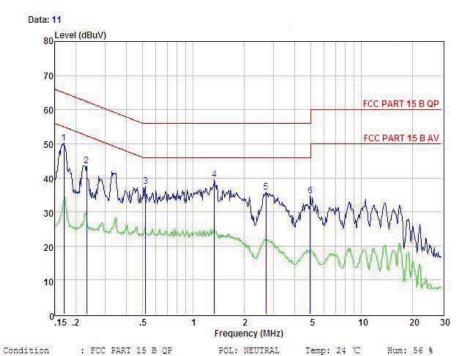
Condition
EUT
Model No
Test Mode
Power
Test Engineer
Remark

Item	Freq	Read Level	LISN Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.166	43.06	0.03	-9.52	0.10	52.71	65.16	-12.45	Peak
2	0.226	37.45	0.03	-9.52	0.10	47.10	62.61	-15.51	Peak
3	0.385	31.93	0.03	-9.57	0.10	41.63	58.17	-16.54	Peak
4	0.708	31.04	0.04	-9.59	0.10	40.77	56.00	-15.23	Peak
5	2.794	30.79	0.07	-9.78	0.12	40.76	56.00	-15.24	Peak
6	8.637	26.64	0.15	-9.95	0.17	36.91	60.00	-23.09	Peak

Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss



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EUT :
Model No :
Test Mode :
Power :
Test Engineer :
Remark :

Item	Freq	Read Level	LISN Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.170	40.49	0.03	-9.52	0.10	50.14	64.94	-14.80	Peak
2	0.233	33.96	0.03	-9.52	0.10	43.61	62.35	-18.74	Peak
3	0.521	27.81	0.03	-9.58	0.10	37.52	56.00	-18.48	Peak
4	1.338	29.66	0.05	-9.65	0.10	39.46	56.00	-16.54	Peak
5	2.707	25.89	0.07	-9.77	0.11	35.84	56.00	-20.16	Peak
6	4.952	24.60	0.10	-9.93	0.12	34.75	56.00	-21.25	Peak

Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss

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# 11. Antenna Requirements

# 11.1.Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### 11.2.Result

The antennas used for this product are PCB Antenna for Bluetooth, no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi for Bluetooth.

# 12. Test setup photo

# 12.1.Photos of Radiated emission



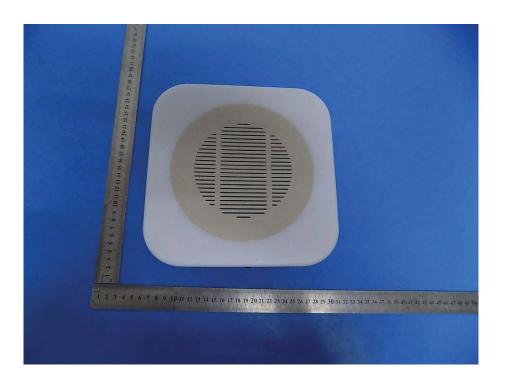


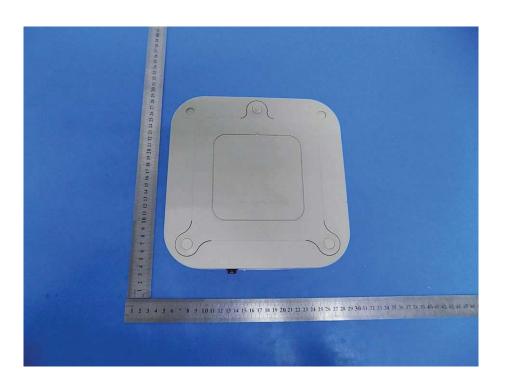
# 12.2.Photos of Conducted Emission test

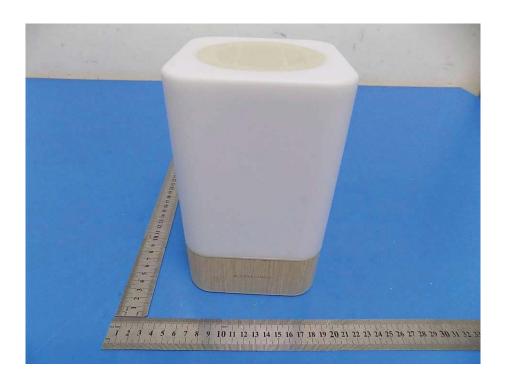


# 13. Photos of EUT

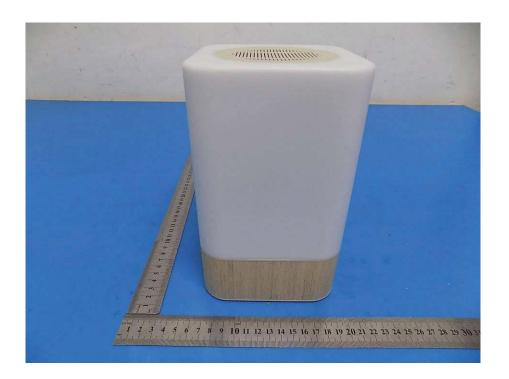


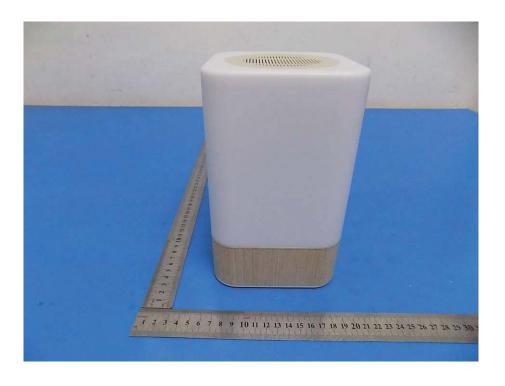








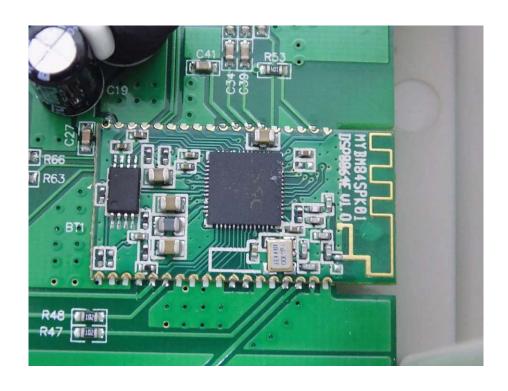




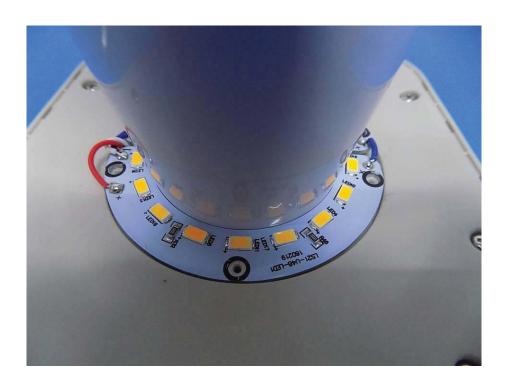












-----END OF THE REPORT-----