

TABLE OF CONTENTS

A.1	CONDUCTED EMISSION	2
A.2	RADIATED EMISSION	4
	A.2.1 Emissions within Restricted Frequency Bands	4
	A.2.2 Emissions outside the frequency band:	12
	A.2.3 Emissions in Non-restricted Frequency Bands:	13
A.3	20dB BANDWIDTH	14
	A.3.1 6dB Bandwidth Result	14
	A.3.2 Measurement Plots	15
A.4	CARRIER FREQUENCY SEPARATION	16
A.5	TIME OF OCCUPANCY	17
	A.5.1 Time of Occupancy	17
A.6	NUMBER OF HOPPING CHANNELS	19
A.7	MAXIMUM PEAK OUTPUT POWER	20
	A.7.1 Maximum Peak Output Power	20
	A.7.2 Measurement Plots	21
A.8	EMISSION LIMITATIONS MEASUREMENT	22
	A.8.1 Band Edge	22
	A.8.2 Spurious Emission	23

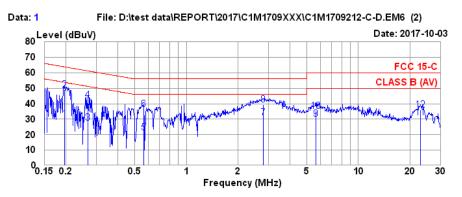


New Taipei City244, Taiwan

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A.1 CONDUCTED EMISSION

Test Date	2017/10/03	Temp./Hum.	26°C/54%
Test Voltage		AC 120V, 60	Hz



Data no.

Site no. : No.7 Shielded Room Conditi

Env.

: M-CC2BRS EUT Power Rating: 120Vac/60Hz Test Mode : Operaing

Condition	: ESH2-25 366(ADAPTER)	Pnase	: LINE
Limit	: FCC 15-C		
Env. / Ins.	: 26*C / 54% ESCI(1276)	Engineer	: Nick Du

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBµV)	Limits (dBμV)	Margin (dB)	Remark
1	0.195	0.16	0.04	9.86	20.09	30.15	53.80	23.65	Average
2	0.195	0.16	0.04	9.86	38.94	49.00	63.80	14.80	QP
3	0.269	0.17	0.04	9.86	17.41	27.48	51.16	23.68	Average
4	0.269	0.17	0.04	9.86	32.41	42.48	61.16	18.68	QP
5	0.567	0.19	0.04	9.86	11.47	21.56	46.00	24.44	Average
6	0.567	0.19	0.04	9.86	26.40	36.49	56.00	19.51	QP
7	2.809	0.29	0.14	9.87	20.91	31.21	46.00	14.79	Average
8	2.809	0.29	0.14	9.87	29.00	39.30	56.00	16.70	QP
9	5.653	0.42	0.18	9.87	19.70	30.17	50.00	19.83	Average
10	5.653	0.42	0.18	9.87	24.72	35.19	60.00	24.81	QP
11	22.896	1.18	0.32	9.96	19.72	31.18	50.00	18.82	Average
12	22.896	1.18	0.32	9.96	24.67	36.13	60.00	23.87	QP

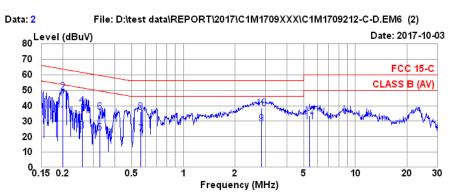
Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

^{2.} If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Test Date	2017/10/03	Temp./Hum.	26°C/54%
Test Voltage		AC 120V, 60	Hz



Site no. : No.7 Shielded Room Condition : ESH2-Z5 366(ADAPTER) Data no. : 2 Phase : NEUTRAL

Limit : FCC 15-C

Env. / Ins. : 26*C / 54% ESCI(1276)

Engineer : Nick Du

EUT : M-CC2BRS
Power Rating : 120Vac/60Hz
Test Mode : Operaing

		AMN	Cable	Pulse		Emission			
	Freq.	Factor	Loss	Att.	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dB)	(dBµV)	(dBμV)	(dBµV)	(dB)	
1	0.199	0.17	0.04	9.86	24.00	34.07	53.67	19.60	Average
2	0.199	0.17	0.04	9.86	38.82	48.89	63.67	14.78	QP
3	0.259	0.18	0.04	9.86	13.88	23.96	51.47	27.51	Average
4	0.259	0.18	0.04	9.86	30.15	40.23	61.47	21.24	QP
5	0.329	0.18	0.04	9.86	12.40	22.48	49.49	27.01	Average
6	0.329	0.18	0.04	9.86	25.76	35.84	59.49	23.65	QP
7	0.567	0.20	0.04	9.86	11.83	21.93	46.00	24.07	Average
8	0.567	0.20	0.04	9.86	25.92	36.02	56.00	19.98	QP
9	2.854	0.29	0.14	9.87	18.35	28.65	46.00	17.35	Average
10	2.854	0.29	0.14	9.87	28.44	38.74	56.00	17.26	QP
11	5.419	0.39	0.18	9.87	19.29	29.73	50.00	20.27	Average
12	5.419	0.39	0.18	9.87	23.27	33.71	60.00	26.29	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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A.2 RADIATED EMISSION

Test Date	2017/10/03	Temp./Hum.	23°C/53%					
Test Voltage		AC 120V, 60Hz						

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

A.2.1.2 Frequency Below 1 GHz

Mode	GFSK	Frequency	TX 2402MHz
		1 ,	

Antenna at Horizontal Polarization

Emission	Antenna	Cable	Meter	Emission	Limits	Margin	
Frequency	Factor	Loss	Reading	Level			Detector
 (MHz)	(dB/m)	(dB)	$(dB\mu V)$	$\left(dB\mu V/m\right)$	$(dB\mu V/m)$	(dB)	
216.24	16.92	3.50	14.16	34.58	46.00	11.42	Peak
365.62	21.25	5.16	14.21	40.62	46.00	5.38	Peak
577.08	24.32	6.68	1.07	32.07	46.00	13.93	Peak
971.87	27.56	8.65	2.67	38.88	54.00	15.12	Peak

Antenna at Vertical Polarization

Emission	Antenna	Cable	Meter	Emission	Limits	Margin	_
Frequency	Factor	Loss	Reading	Level			Detector
(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	
270.56	19.30	4.02	5.41	28.73	46.00	17.27	Peak
455.83	22.70	6.07	2.88	31.65	46.00	14.35	Peak
672.14	24.81	7.00	5.26	37.07	46.00	8.93	Peak
965.08	27.49	8.61	4.33	40.43	54.00	13.57	Peak



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Mode Grak Frequency TA 244 TWITZ

Antenna at Horizontal Polarization

Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Limits	Margin	Detector
(MHz)	(dB/m)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	
144.46	17.47	2.77	6.85	27.09	43.50	16.41	Peak
332.64	20.40	4.75	11.53	36.68	46.00	9.32	Peak
527.61	23.60	6.52	2.63	32.75	46.00	13.25	Peak
954.41	27.39	8.54	2.99	38.92	46.00	7.08	Peak

Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Limits	Margin	Detector
(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	
143.49	17.55	2.76	12.57	32.88	43.50	10.62	Peak
216.24	16.92	3.50	7.70	28.12	46.00	17.88	Peak
503.36	23.20	6.43	5.64	35.27	46.00	10.73	Peak
792.42	25.86	7.57	3.36	36.79	46.00	9.21	Peak



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Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

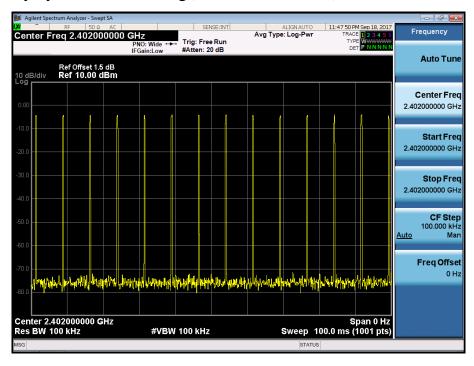
Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Limits	Margin	Detector
(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	
326.82	20.25	4.68	7.43	32.36	46.00	13.64	Peak
468.44	22.83	6.17	5.64	34.64	46.00	11.36	Peak
672.14	24.81	7.00	1.64	33.45	46.00	12.55	Peak
924.34	27.08	8.35	1.66	37.09	46.00	8.91	Peak

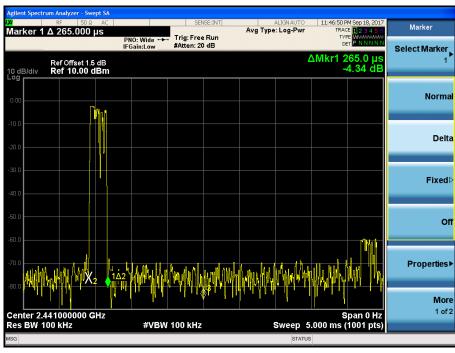
Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Limits	Margin	Detector
(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	
95.96	16.75	2.22	11.37	30.34	43.50	13.16	Peak
216.24	16.92	3.50	13.79	34.21	46.00	11.79	Peak
436.43	22.49	5.90	8.26	36.65	46.00	9.35	Peak
835.10	26.25	7.82	7.28	41.35	46.00	4.65	Peak



The duty cycle factor for calculate average level is -28.613dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit.

Duty cycle factor = 20log(Dwell time/100ms)= -28.613dB







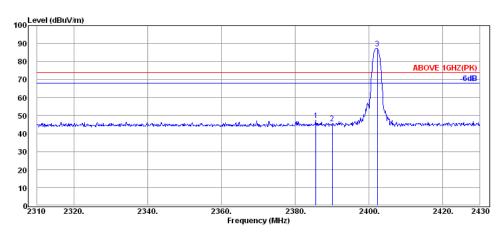
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

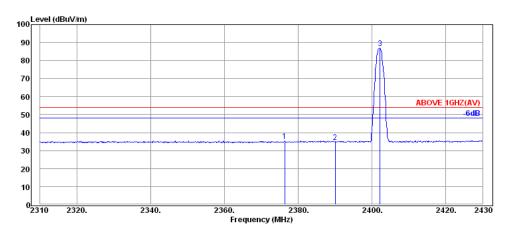
Band Edge:

Mode GFSK Frequency 1X 2402MHz



Antenna at Horizontal Polarization

Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Limits	Margin	Detector
(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	
2385.60	32.16	6.57	8.75	47.48	74.00	26.52	Peak
2390.04	32.16	6.57	6.89	45.62	74.00	28.38	Peak
2402.28	32.16	6.57	48.57	87.30			Peak



Antenna at Horizontal Polarization

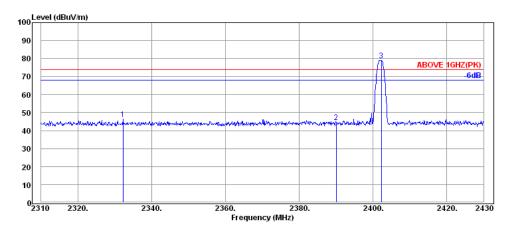
Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Limits	Margin	Datastor
(MHz)	(dB/m)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)	(dB)	Detector
2376.36	32.13	6.55	-3.17	35.51	54.00	18.49	Average
2390.04	32.16	6.57	-3.94	34.79	54.00	19.21	Average
2402.16	32.16	6.57	48.14	86.87			Average

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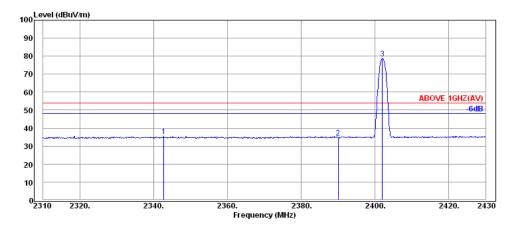
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Antenna at Vertical Polarization

Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Limits	Margin	Detector
(MHz)	(dB/m)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	
2332.20	32.06	6.49	7.91	46.46	74.00	27.54	Peak
2390.04	32.16	6.57	6.00	44.73	74.00	29.27	Peak
2402.28	32.16	6.57	40.48	79.21			Peak

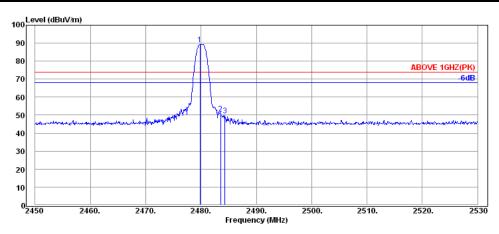


Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Limits	Margin	Detector
(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$\left(dB\mu V/m\right)$	$(dB\mu V/m)$	(dB)	
2342.76	32.08	6.51	-3.17	35.42	54.00	18.58	Average
2390.04	32.16	6.57	-4.02	34.71	54.00	19.29	Average
2402.04	32.16	6.57	39.97	78.70			Average



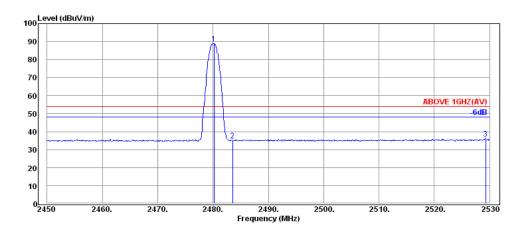
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Mode GFSK Frequency TX 2480MHz



Antenna at Horizontal Polarization

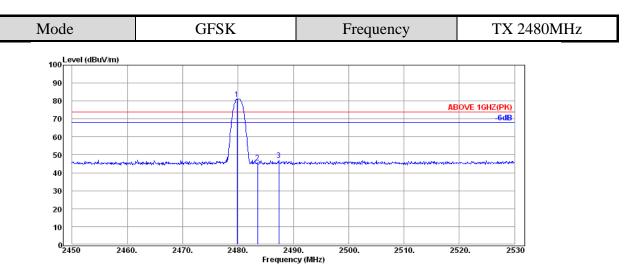
_								
_	Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Limits	Margin	Detector
	(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$\left(dB\mu V/m\right)$	$(dB\mu V/m)$	(dB)	
	2479.84	32.28	6.67	50.55	89.50			Peak
	2483.52	32.28	6.67	12.05	51.00	74.00	23.00	Peak
	2484.32	32.28	6.67	11.00	49.95	74.00	24.05	Peak



Antenna at Horizontal Polarization

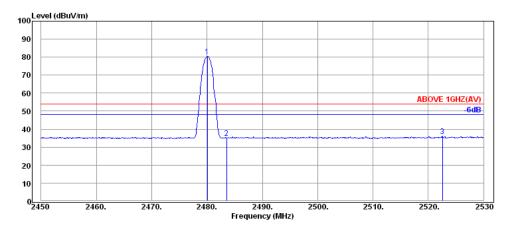
Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Limits	Margin	Detector
(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$\left(dB\mu V/m\right)$	$(dB\mu V/m)$	(dB)	
2480.16	32.28	6.67	50.14	89.09			Average
2483.52	32.28	6.67	-3.76	35.19	54.00	18.81	Average
2529.28	32.34	6.74	-2.92	36.16	54.00	17.84	Average

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Antenna at Vertical Polarization

_								
	Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Limits	Margin	Detector
	(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$\left(dB\mu V/m\right)$	$(dB\mu V/m)$	(dB)	
	2479.84	32.28	6.67	42.31	81.26			Peak
	2483.52	32.28	6.67	6.70	45.65	74.00	28.35	Peak
	2487.36	32.28	6.67	8.28	47.23	74.00	26.77	Peak



Emission	Antenna	Cable	Meter	Emission	Limits	Margin	
Frequency	Factor	Loss	Reading	Level			Detector
(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	
2480.08	32.28	6.67	41.43	80.38	54.00		Average
2483.52	32.28	6.67	-3.80	35.15	54.00	18.85	Average
2522.56	32.34	6.74	-3.14	35.94	54.00	18.06	Average

A.2.2 Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

Mode			GFSK		Frequency			TX 2402MHz		MHz
Antenna a	t Horiz	zontal	Polarizat	ion						
Emission	Ante	enna	Cable	Mete	er	Emission	Limits	s N	I argin	
Frequency	Fac	etor	Loss	Readi	ng	Level				Detector
(MHz)	(dB	/m)	(dB)	(dBµ	V)	$(dB\mu V/m)$	$(dB\mu V/I)$	m)	(dB)	
4805.00	34.	22	9.54	-1.1	1	42.65	54.00	1	11.35	Peak
7205.00	35.	80	11.80	-1.4	3	46.17	54.00		7.83	Peak

Antenna at Vertical Polarization

Emission	Antenna	Cable	Meter	Emission	Limits	Margin	
Frequency	Factor	Loss	Reading	Level			Detector
(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	
4805.00	34.22	9.54	-0.60	43.16	54.00	10.84	Peak
7205.00	35.80	11.80	-0.68	46.92	54.00	7.08	Peak

Mode		GFS	K	Frequency	7	TX 2441MHz		ИHz
Antenna a	at Horizont	al Polarizati	on					
Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission g Level	Li	mits	Margin	Detector
(MHz)	(dB/m)	(dB)	(dBµV) $(dB\mu V/m)$	(dBµ	ιV/m)	(dB)	
4880.00	34.25	9.56	0.08	43.89	54	1.00	10.11	Peak
7325.00	35.80	11.92	-1.45	46.27	54	1.00	7.73	Peak

Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Limits	Margin	Detector
(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	
4880.00	34.25	9.56	-0.60	43.21	54.00	10.79	Peak
7325.00	35.80	11.92	-0.36	47.36	54.00	6.64	Peak



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Mode		GFS1	K	Frequency		TX 2480MHz	
Antenna a	at Horizont	al Polarizati	on				
Emission Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Evel	Limits	Margin	Detector
(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$(dB\mu V/m)$	$(dB\mu V/m$	(dB)	
4960.00	34.29	9.60	-1.20	42.69	54.00	11.31	Peak
7440.00	35.80	12.04	-0.68	47.16	54.00	6.84	Peak

Antenna at Vertical Polarization

Emission	Antenna	Cable	Meter	Emission	Limits	Margin	
Frequency	Factor	Loss	Reading	Level			Detector
(MHz)	(dB/m)	(dB)	$(dB\mu V)$	$\left(dB\mu V/m\right)$	$(dB\mu V/m)$	(dB)	
4960.00	34.29	9.60	-0.96	42.93	54.00	11.07	Peak
7440.00	35.80	12.04	0.20	48.04	54.00	5.96	Peak

A.2.3 Emissions in Non-restricted Frequency Bands:

All emission levels below the 15.209 general radiated emissions limits is not required.



A.3 20dB BANDWIDTH

Test Date	2017/09/18	Temp./Hum.	23.1℃/53.2%
Test Voltage		AC 120V, 60	Hz

A.3.1 6dB Bandwidth Result

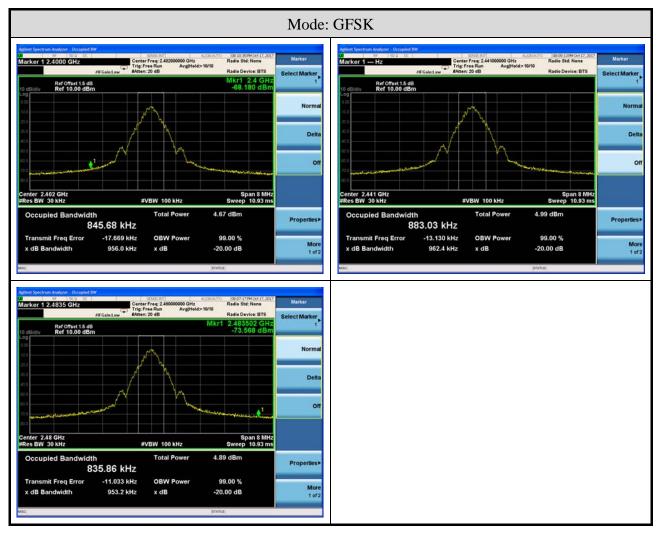
Mode	Centre Frequency (MHz)	20dB Bandwidth (MHz)	2/3 (20dB Bandwidth)
	2402	0.9560	0.6373
GFSK	2441	0.9624	0.6416
	2480	0.9532	0.6355

Remark: The maximum two-thirds of the 20dB bandwidth is the limit for carrier frequency separation presented.

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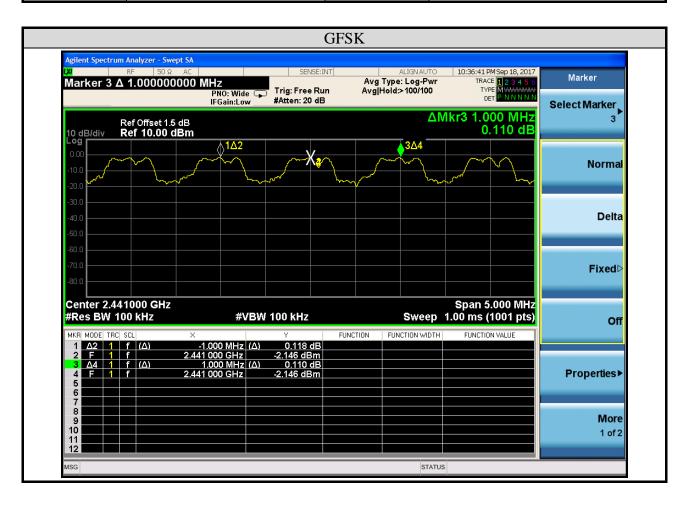
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A.3.2 Measurement Plots



A.4 CARRIER FREQUENCY SEPARATION

Test Date	2017/09/18	Temp./Hum.	22.1°C/51.3%
Cable Loss	1.5dB	Test Voltage	AC 120V, 60Hz



A.5 TIME OF OCCUPANCY

Test Date	2017/09/18	Temp./Hum.	22°C/52.2%
Cable Loss	1.5dB	Test Voltage	AC 120V, 60Hz

A.5.1 Time of Occupancy

Mode	Centre Frequency (MHz)	Mode	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
	DH1	0.252	81.844		
GFSK	GFSK 2441	DH3	0.255	47.248	<400
		DH5	0.290	51.571	

Observation Period: 79 channels/5 seconds *0.4 seconds = 6.32 seconds

Test Mode: GFSK

Centre Frequency: 2441MHz

DH1: For each second of 46 channel appearance, the longest time of occupancy for each of 6.32 seconds is:

50 channels*6.32 seconds* **0.259** ms= **81.844** ms

DH3: For each second of 23 channel appearance, the longest time of occupancy for each of 6.32 seconds is:

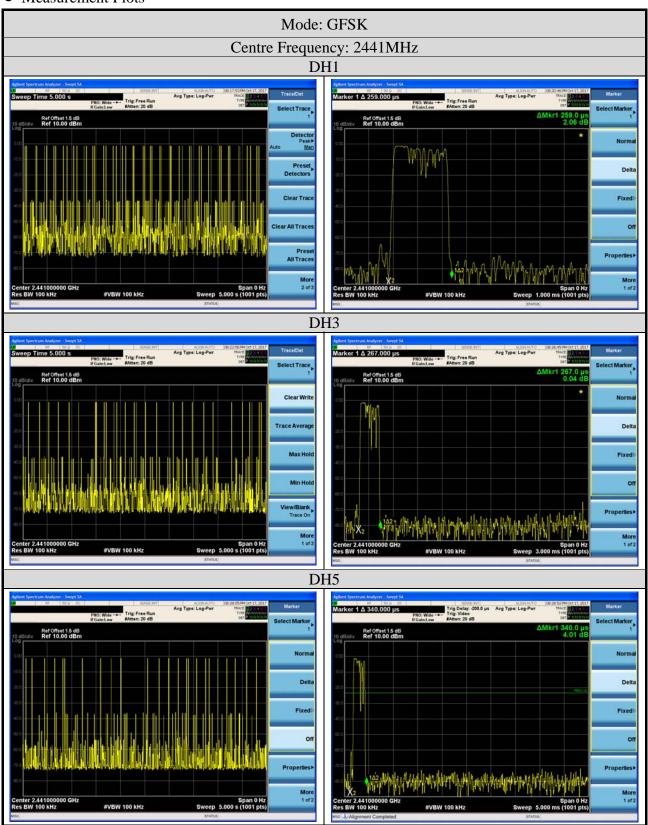
28 channels*6.32 seconds* 0.267 ms= 47.248 ms

DH5: For each second of 16 channel appearance, the longest time of occupancy for each of 6.32 seconds is:

24 channels*6.32 seconds* 0.340 ms= 51.571 ms

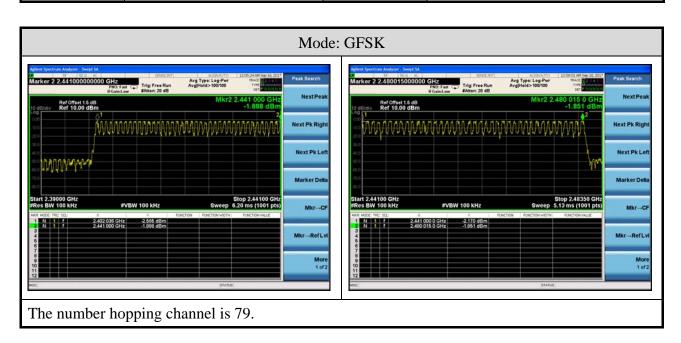
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Measurement Plots



A.6 NUMBER OF HOPPING CHANNELS

Test Date	2017/09/18	Temp./Hum.	22.3°C/51.1%
Cable Loss	1.5dB	Test Voltage	AC 120V, 60Hz





A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2017/09/13	Temp./Hum.	23.1℃/53.2%
Cable Loss	1.5dB	Test Voltage	AC 120V, 60Hz

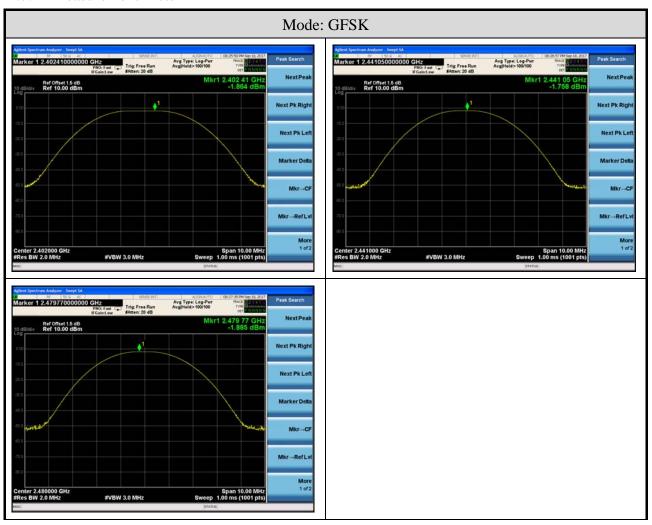
A.7.1 Maximum Peak Output Power

Modulation	Centre Frequency	Maximum Peak Output Power		Limit
Modulation	(MHz)	dBm	W	Lillit
	2402	-1.864	0.000651	01 ID
GFSK	2441	-1.758	0.000667	21dBm (0.125W)
	2480	-1.885	0.000648	



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A.7.2 Measurement Plots

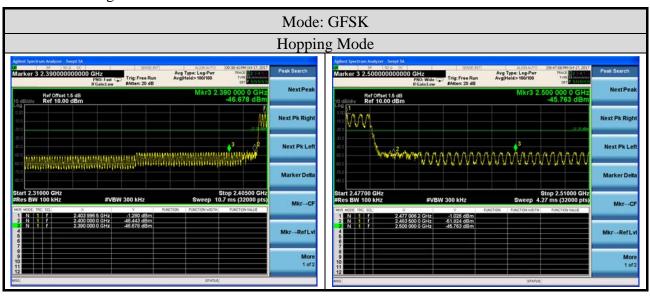




A.8 EMISSION LIMITATIONS MEASUREMENT

Test Date	2017/09/18	Temp./Hum.	22.3°C/51.1%
Cable Loss	1.5dB	Test Voltage	AC 120V, 60Hz

A.8.1 Band Edge

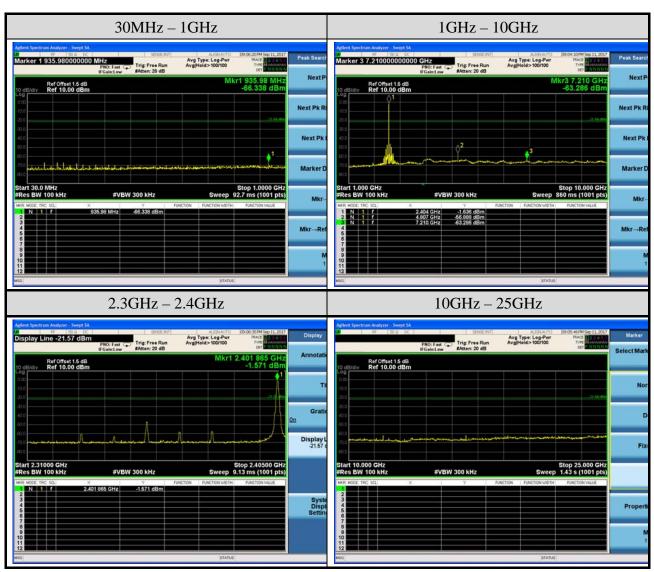


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A.8.2 Spurious Emission

Test Date	2017/09/11	Temp./Hum.	24°C/56%
Mode	GFSK	Frequency	2402MHz
Cable Loss	1.5dB	Test Voltage	AC 120V, 60Hz



Note: All results have been included cable loss.



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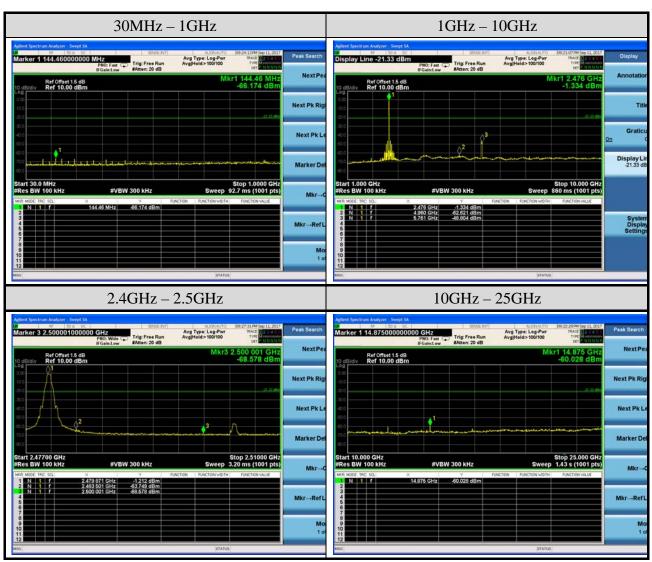
Test Date	2017/09/11	Temp./Hum.	24°C/56%
Mode	GFSK	Frequency	2441MHz
Cable Loss	1.5dB	Test Voltage	AC 120V, 60Hz



Note: All results have been included cable loss.



Test Date	2017/09/11	Temp./Hum.	24°C/56%
Mode	GFSK	Frequency	2480MHz
Cable Loss	1.5dB	Test Voltage	AC 120V, 60Hz



Note: All results have been included cable loss.