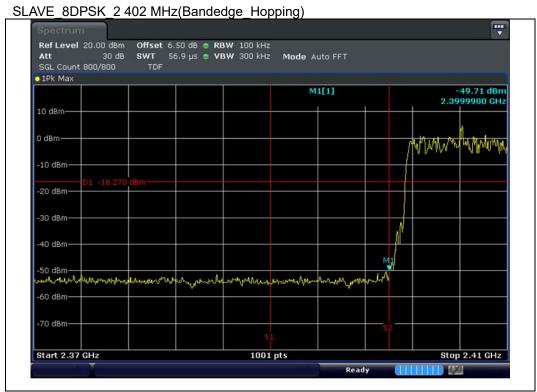
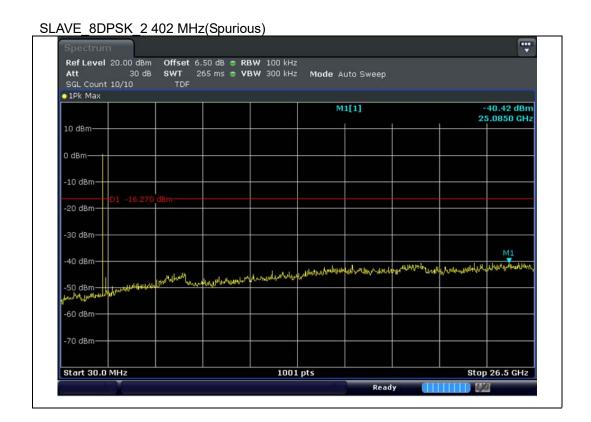


NOTE: F1: 2 390 MHz, F2: 2 400 MHz



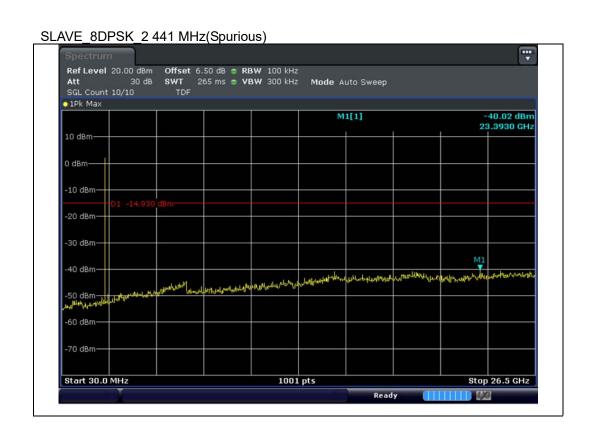


NOTE: F1: 2 390 MHz, F2: 2 400 MHz

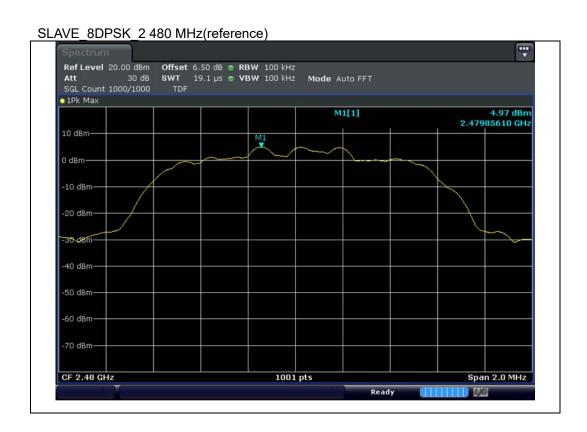


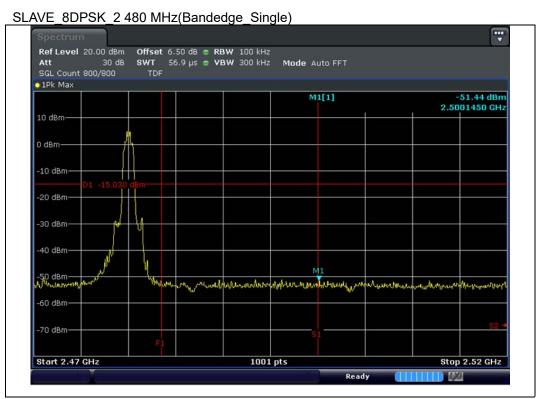




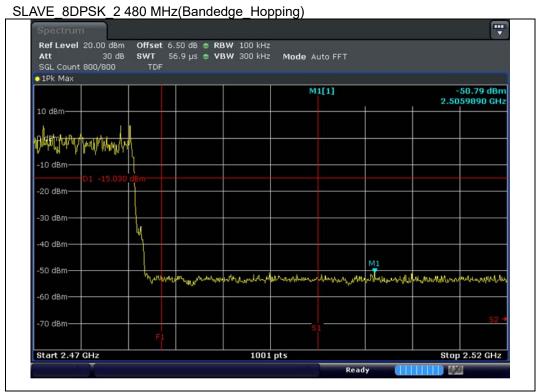


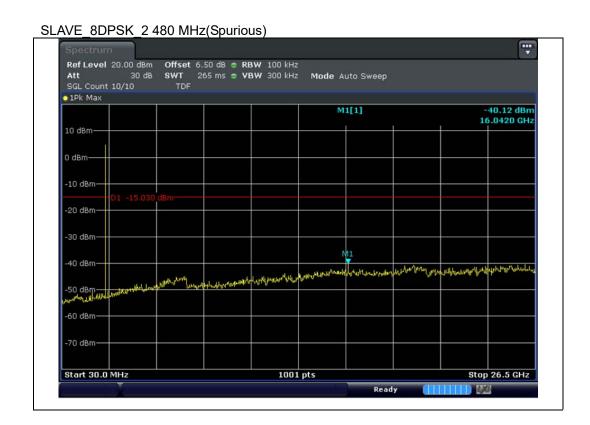






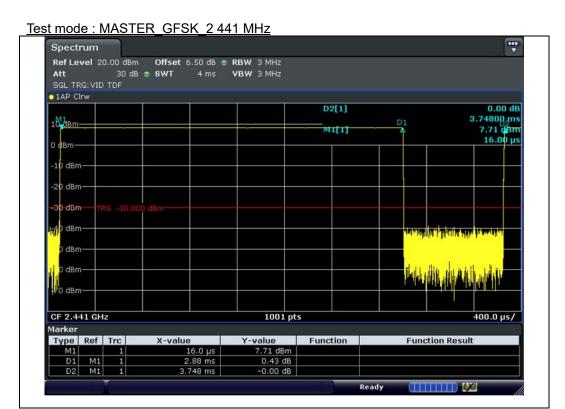






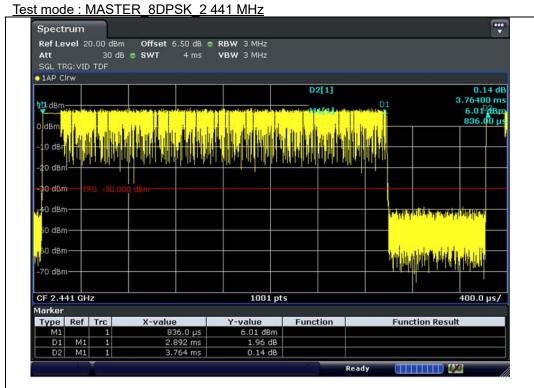


#### 4.4.7.7 Measurement Plot\_Dutycycle



NOTE:

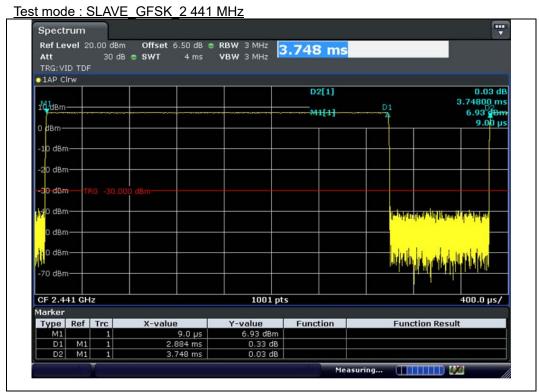
Dwell time: on time\*No. of hop Dutycycle Factor : 20log(dwell time/100) = 20log((2.88\*2)/100) = -24.79



NOTE: Dwell time: on time\*No. of hop

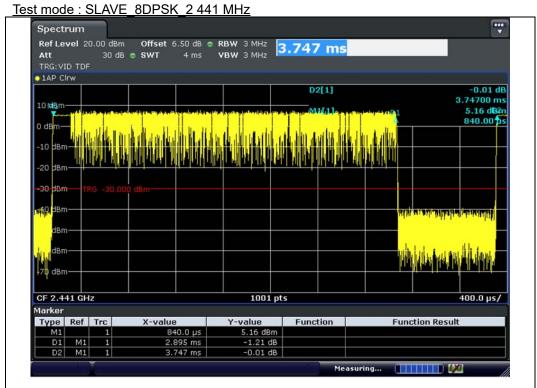
Dutycycle Factor: 20log(dwell time/100) = 20log((2.892\*2)/100) = -24.76





NOTE: Dwell time: on time\*No. of hop

Dutycycle Factor : 20log(dwell time/100) = 20log((2.884\*2)/100) = -24.78



NOTE: Dwell time: on time\*No. of hop

Dutycycle Factor : 20log(dwell time/100) = 20log((2.895\*2)/100) = -24.75





### 4.4.8 Conducted Emission

#### 4.4.8.1 Regulation

According to §15.207(a) and RSS-GEN §8.8 for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu\text{H}/50~\Omega$  line impedance stabilization network (LISN).

Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Fraguency of emission (MHz)	Conducted limit (dBμV)			
Frequency of emission (MHz)	Qausi-peak	Average		
0.15 – 0.5	66 to 56 *	56 to 46 *		
0.5 – 5	56	46		
5 - 30	60	50		

<sup>\*</sup> Decreases with the logarithm of the frequency.

According to §15.107(a), for unintentional device, except for Class A digital devices, line conducted emission limits are the same as the above table.

#### 4.4.6.2 Measurement Procedure

- 1) The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5 m away from the side wall of the shielded room.
- 2) Each current-carrying conductor of the EUT power cord was individually connected through a 50  $\Omega$ /50  $\mu$ H LISN, which is an input transducer to a Spectrum Analyzer or an EMI/Field Intensity Meter, to the input power source.
- 3) Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
- 4) The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
- 5) The measurements were made with the detector set to PEAK amplitude within a bandwidth of 10 kHz or to QUASIPEAK and AVERAGE within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

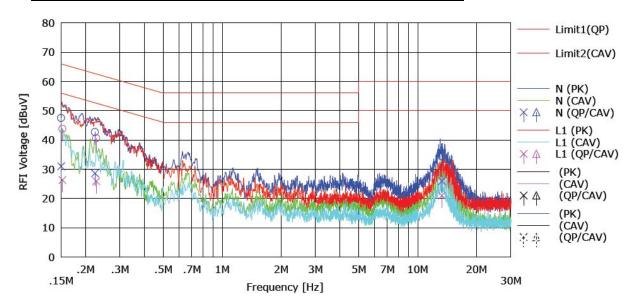
#### 4.4.8.3 Result

Comply (measurement data: refer to the next page)



#### 4.4.8.4 Measurement data

### Test mode: Charging mode (Worst case: MASTER GFSK 2441 MHz)



NO	FREQ	READING		C.FACTOR	RESULT		LIMIT		MARGIN		PHASE	
	[MHz]	QP [dBuV]	CAV [dBuV]	] [dB]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]		
1	0.15009	27.7	11.2	19.8	47.5	31.0	66.0	56.0	18.5	25.0	N	
2	0.22354	22.9	8.8	19.8	42.7	28.6	62.7	52.7	20.0	24.1	N	
3	13.30913	14.2	5.6	20.3	34.5	25.9	60.0	50.0	25.5	24.1	N	
4	0.15239	24.0	6.5	19.8	43.8	26.3	65.9	55.9	22.1	29.6	L1	
5	0.22715	20.8	6.1	19.8	40.6	25.9	62.6	52.6	22.0	26.7	L1	
6	13.29456	7.5	0.7	20.3	27.8	21.0	60.0	50.0	32.2	29.0	L1	



# **APPENDIX I**

## **TEST EQUIPMENT USED FOR TESTS**



To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment.

Equipment	Manufacturer	Model	Serial No.	Cal. Date (yy.mm.dd)	Next Cal.Date (yy.mm.dd)
FSV Signal Analyzer	ROHDE&SCHWARZ	FSV30	103370	2018-10-15	2019-10-15
Power Sensor	KEYSIGHT	U2022XA	MY55320008	2018-08-17	2019-08-17
DC Power Supply	HP	66332A	US37471465	2019-01-10	2020-01-10
Digital MultiMeter	HP	34401A	US36025428	2019-01-10	2020-01-10
Signal Generator	ROHDE&SCHWARZ	SMB100A	178384	2018-10-15	2019-10-15
EMI Test Receiver	ROHDE&SCHWARZ	ESU40	100445	2018-12-14	2019-12-14
BiLog Antenna	Schwarzbeck	VULB9160	9160-3381	2017-06-15	2019-06-15
Preamplifier	TSJ	MLA-10k01- b01-27	1870369	2018-04-23	2019-04-23
Antenna Mast(10 m)	TOKIN	5977	-	-	-
Antenna Mast(10 m)	Innco	MA4640- XPET-0800	578	-	-
Controller(10 m)	TOKIN	5909L	141909L-1	-	-
Controller(10 m)	Innco	CO3000	40040217	-	-
Turn Table(10 m)	TOKIN	5983-1.5	-	-	-
10 m Semi-Anechoic Chamber	SY CORPORATION	-	-	-	-
Active Loop H-Field	ETS	6502	00150598	2017-06-01	2019-06-01
Double Ridege Horn Antenna	ETS	3117	00168719	2017-09-01	2019-09-01
Double Ridege Horn Antenna	A.H Systems, Inc	SAS-574	465	2017-04-25	2019-04-25
PREAMPLIFIER	Agilent	8449B	3008A02110	2019-01-14	2020-01-14
PREAMPLIFIER	A.H Systems, Inc	PAM-1840VH	166	2019-01-14	2020-01-14
EMI Test Receiver	ROHDE&SCHWARZ	ESR7	101440	2018-12-14	2019-12-14
LISN	ROHDE&SCHWARZ	ENV216	101883	2018-04-24	2019-04-24
Pulse Limiter	Schwarzbeck	VTSD 9561-F	9561-F189	2018-04-23	2019-04-23
FSV Signal Analyzer	ROHDE&SCHWARZ	FSV40	101010	2018-04-24	2019-04-24
Band Reject Filter	wainwright instruments gmbh	WRCGV10- 2363.5-2400- 2483.5-2520- 60SS	7	2018-05-14	2019-05-14