Appendix A

RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)

Product Name: BT500ANC Over Ear Wireless Headphones Trade Mark: Monoprice, IIIP

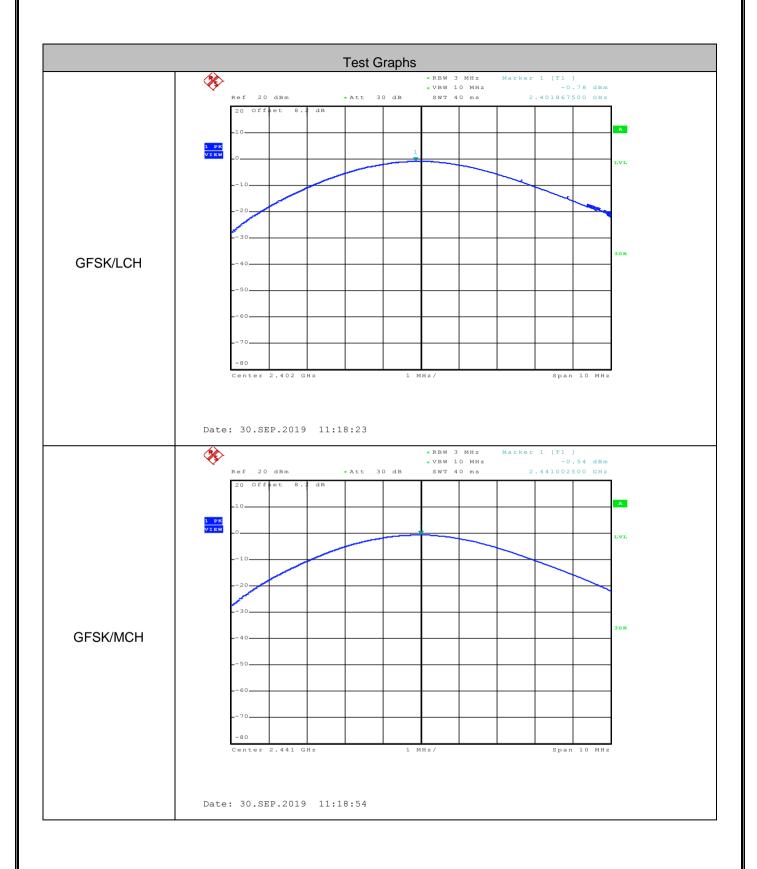
Test Model: 39160

Environmental Conditions

Temperature:	24.5 ° C
Relative Humidity:	54.4%
ATM Pressure:	100.0 kPa
Test Engineer:	JK ZHOU
Supervised by:	Wang.Chuang

A.1 Maxmum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-0.780	30	PASS
GFSK	MCH	-0.540	30	PASS
	НСН	-1.240	30	PASS
	LCH	-1.670	21	PASS
π/4DQPSK	MCH	-0.450	21	PASS
	HCH	-1.060	21	PASS
8DPSK	LCH	-1.820	21	PASS
	MCH	-1.270	21	PASS
	НСН	-1.520	21	PASS



* RBW 3 MHz * VBW 10 MHz 2.479928750 GHz 1 PK VIEW GFSK/HCH Center 2.48 GHz Span 10 MHz Date: 30.SEP.2019 11:19:18 * RBW 3 MHz * VBW 10 MHz SWT 40 ms **%** -1.67 dBm 2.401967500 GHz $\pi/4DQPSK/LCH$ Span 10 MHz Center 2.402 GHz Date: 30.SEP.2019 11:19:46

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA

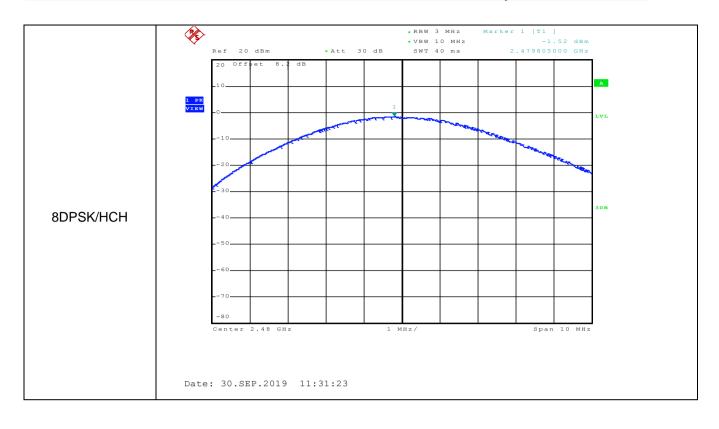
* RBW 3 MHz * VBW 10 MHz 2.440817500 GHz 1 PK VIEW π/4DQPSK/MCH Center 2.441 GHz Date: 30.SEP.2019 11:22:14 * RBW 3 MHz * VBW 10 MHz SWT 40 ms **%** -1.06 dBm 2.479970000 GHz π/4DQPSK/HCH Span 10 MHz Center 2.48 GHz Date: 30.SEP.2019 11:24:35

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA * RBW 3 MHz * VBW 10 MHz 1 PK VIEW 8DPSK/LCH Center 2.402 GHz Span 10 MHz Date: 30.SEP.2019 11:27:14 * RBW 3 MHz * VBW 10 MHz SWT 40 ms **%** -1.27 dBm 2.440846250 GHz 8DPSK/MCH Center 2.441 GHz Span 10 MHz

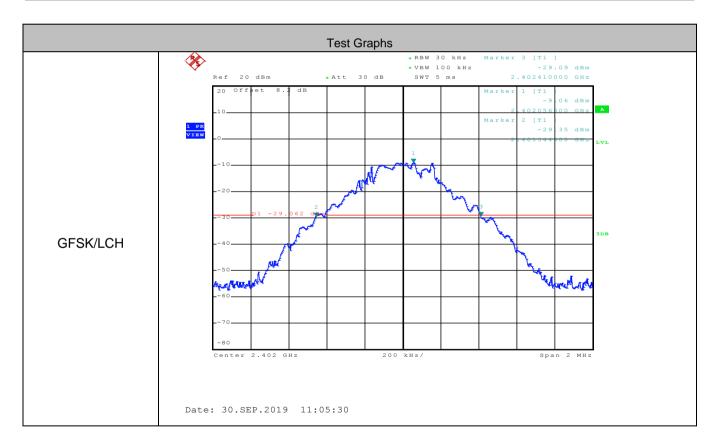
Date: 30.SEP.2019 11:29:44

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA



A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.866	Not Specified	PASS
GFSK	MCH	0.860	Not Specified	PASS
	HCH	0.864	Not Specified	PASS
	LCH	1.262	Not Specified	PASS
π/4DQPSK	MCH	1.260	Not Specified	PASS
	НСН	1.262	Not Specified	PASS
8DPSK	LCH	1.262	Not Specified	PASS
	MCH	1.280	Not Specified	PASS
	HCH	1.266	Not Specified	PASS



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA * RBW 30 kHz * VBW 100 kHz 2 [T1 -28 Marke: 1 PK VIEW 73 dBm GFSK/MCH top top Center 2.441 GHz Date: 30.SEP.2019 11:08:21 * RBW 30 kHz * VBW 100 kHz **%** 57 dBm 2 [T1 -29 Marke: 1 PK VIEW M GFSK/HCH Center 2.48 GHz Span 2 MHz Date: 30.SEP.2019 11:12:31

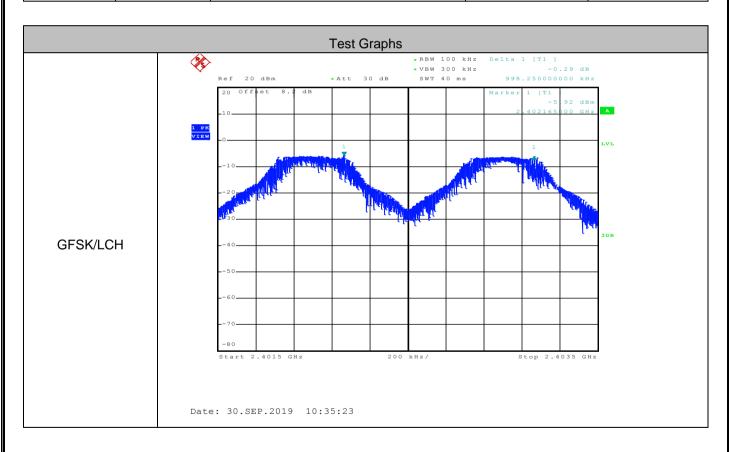
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA * RBW 30 kHz * VBW 100 kHz -30.45 dBm 2 [T1 -30 Marke: 1 PK VIEW Mayor Morard π/4DQPSK/LCH W MANNY NY the wholey what Center 2.402 GHz Date: 30.SEP.2019 11:15:28 * RBW 30 kHz * VBW 100 kHz **%** 77 dBm 2 [T1 -24 Marke 1 PK VIEW 15 dBm $\pi/4DQPSK/MCH$ Center 2.441 GHz Span 2 MHz Date: 30.SEP.2019 11:21:38

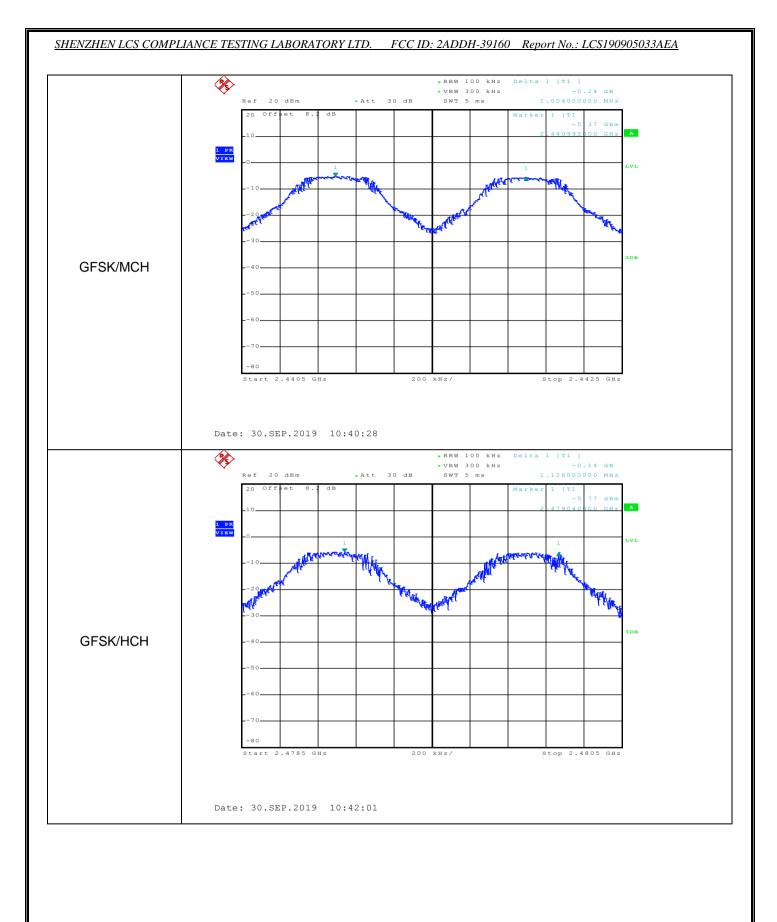
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA * RBW 30 kHz * VBW 100 kHz 2 [T1 -25 Marke: 22 dBm 1 PK VIEW π/4DQPSK/HCH Center 2.48 GHz Date: 30.SEP.2019 11:23:59 * RBW 30 kHz * VBW 100 kHz **%** -25.15 dBm 2.402618000 GHz 82 dBm 2 [T1 -24 Marke 1 PK VIEW 8DPSK/LCH Center 2.402 GHz Span 2 MHz Date: 30.SEP.2019 11:26:38

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA * RBW 30 kHz * VBW 100 kHz -25.15 dBm 12 dBm 2 [T1 -25 Marke: 16 dBm 1 PK VIEW 8DPSK/MCH Center 2.441 GHz Date: 30.SEP.2019 11:29:08 **%** *RBW 30 kHz * VBW 100 kHz 65 dBm 2 [T1 -24 Marke 1 PK VIEW 8DPSK/HCH Center 2.48 GHz Span 2 MHz Date: 30.SEP.2019 11:30:47

A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.998	0.571	PASS
GFSK	MCH	1.004	0.571	PASS
	HCH	1.126	0.571	PASS
	LCH	1.004	0.845	PASS
π/4DQPSK	MCH	0.984	0.845	PASS
	НСН	0.966	0.845	PASS
8DPSK	LCH	1.176	0.848	PASS
	MCH	1.000	0.848	PASS
	НСН	1.334	0.848	PASS

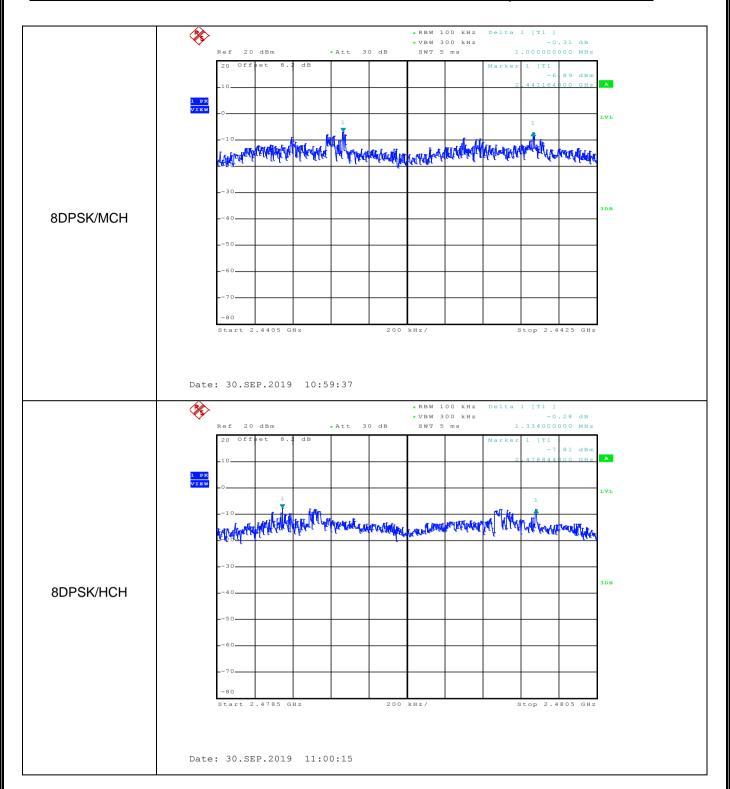




SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA *RBW 100 kHz Delta 1 [T1] * VBW 300 kHz 1 PK VIEW π/4DQPSK/LCH Start 2.4015 GHz Date: 30.SEP.2019 10:48:26 * RBW 100 kHz * VBW 300 kHz 39 dBr $\pi/4DQPSK/MCH$ Start 2.4405 GHz Stop 2.4425 GHz Date: 30.SEP.2019 10:51:19

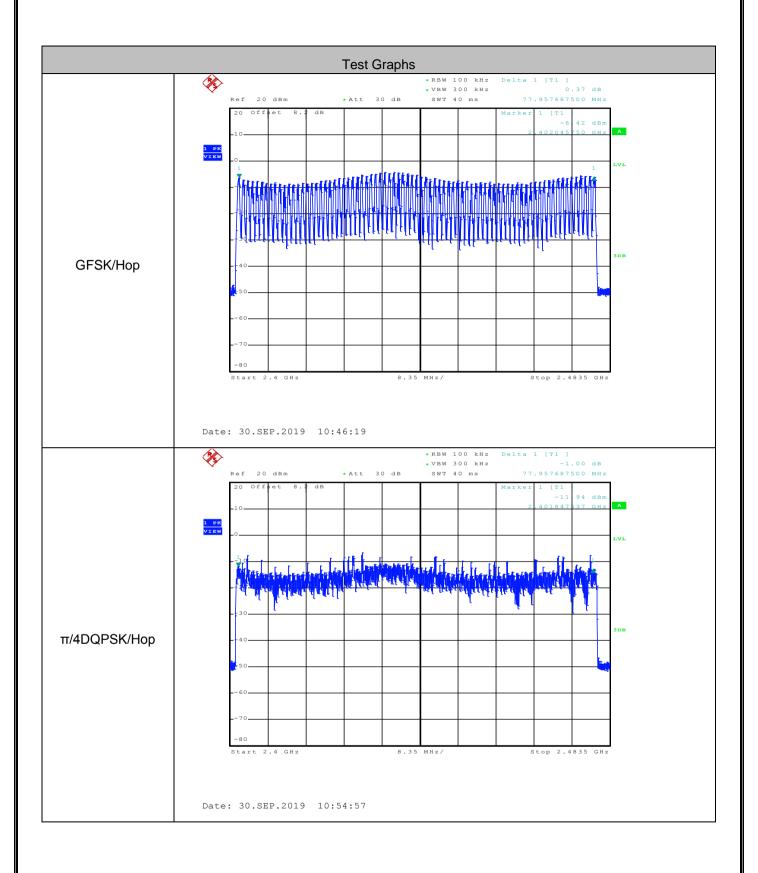
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA *RBW 100 kHz Delta 1 [T1] * VBW 300 kHz 52 dBr 1 PK VIEW π/4DQPSK/HCH Date: 30.SEP.2019 10:51:49 * RBW 100 kHz * VBW 300 kHz 72 dBr 1 PK VIEW 8DPSK/LCH Start 2.4015 GHz Stop 2.4035 GHz Date: 30.SEP.2019 10:56:54

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA

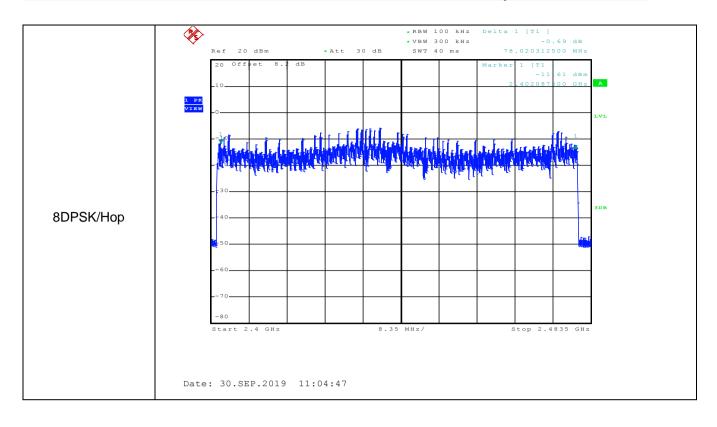


A.4 Hopping Channel Number

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

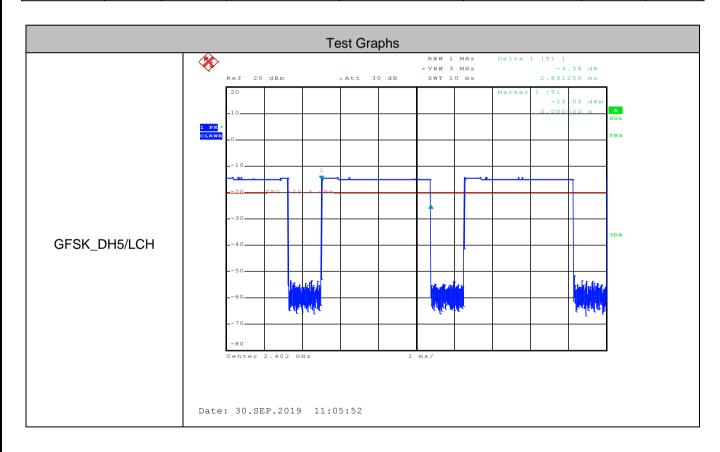


SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA

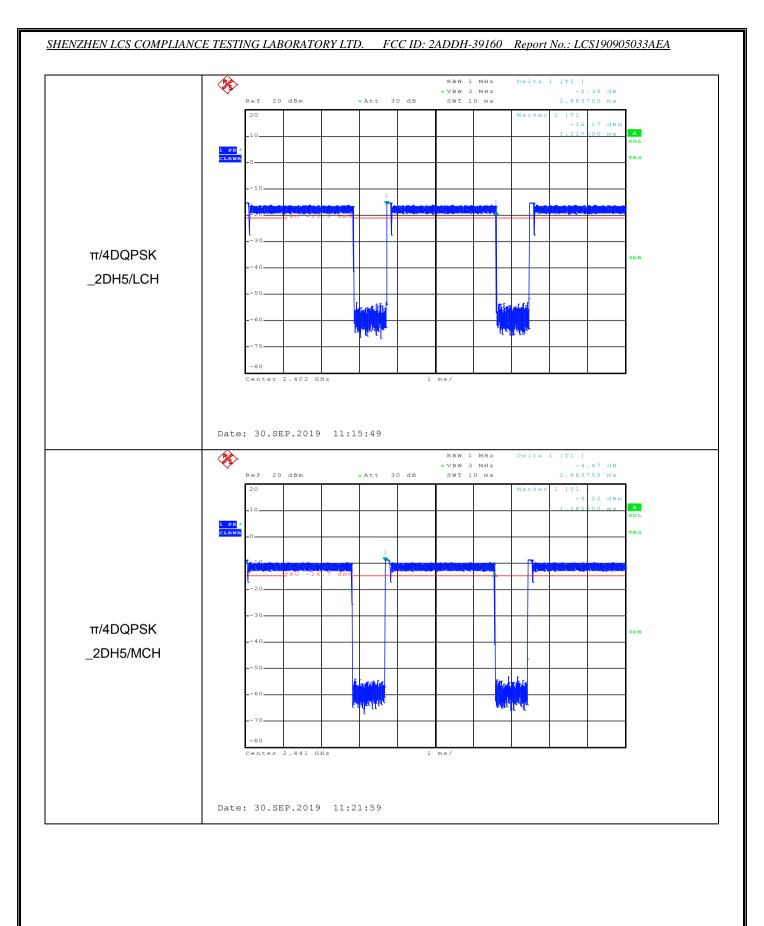


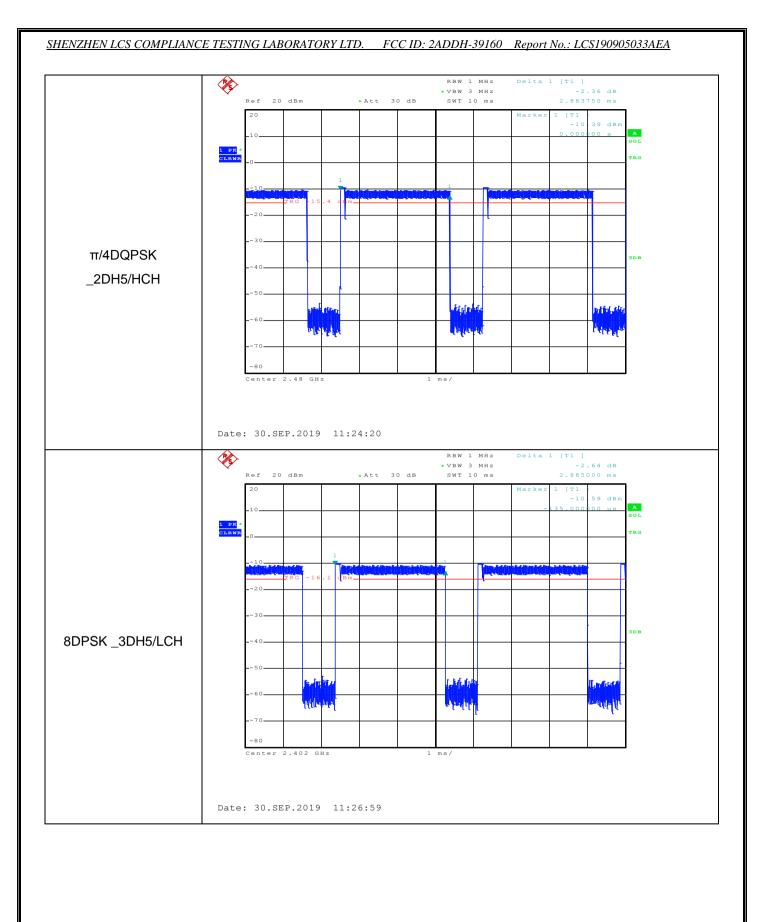
A.5 Dwell Time

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS
	3DH5	LCH	2.88	106.7	0.308	0.4	PASS
8DPSK	3DH5	MCH	2.88	106.7	0.308	0.4	PASS
	3DH5	HCH	2.88	106.7	0.308	0.4	PASS



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA **%** RBW 1 MHz 68 dBm 1 PK GFSK_DH5/MCH 4114 Till or Center 2.441 GHz Date: 30.SEP.2019 11:08:43 RBW 1 MHz **%** -1.73 dB 2.881250 ms 36 dBm 1 PK * GFSK_DH5/HCH Date: 30.SEP.2019 11:12:53

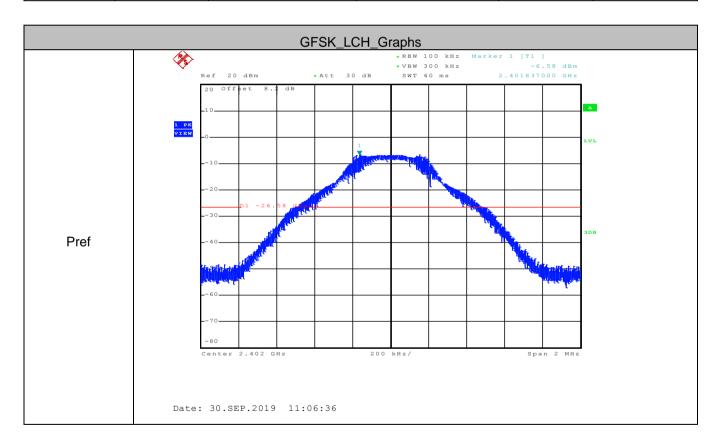




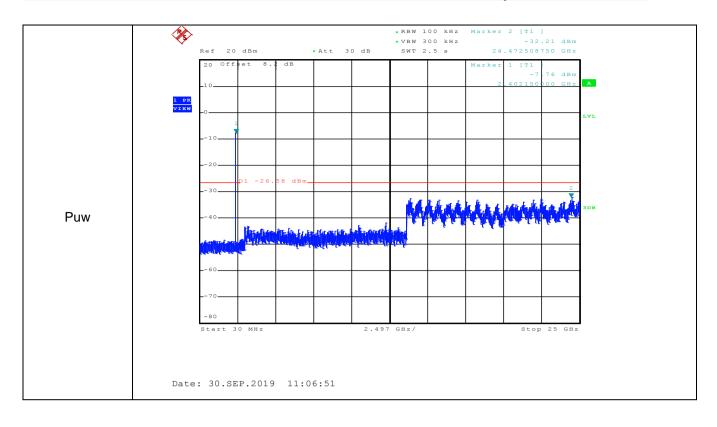
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA **%** RBW 1 MHz 37 dBm 1 PK 8DPSK _3DH5/MCH Center 2.441 GHz Date: 30.SEP.2019 11:29:29 RBW 1 MHz **%** -2.40 dB 2.885000 ms 50 dBm 1 PK * 8DPSK _3DH5/HCH يل الموطل إرا पृष्टिक Center 2.48 GHz Date: 30.SEP.2019 11:31:08

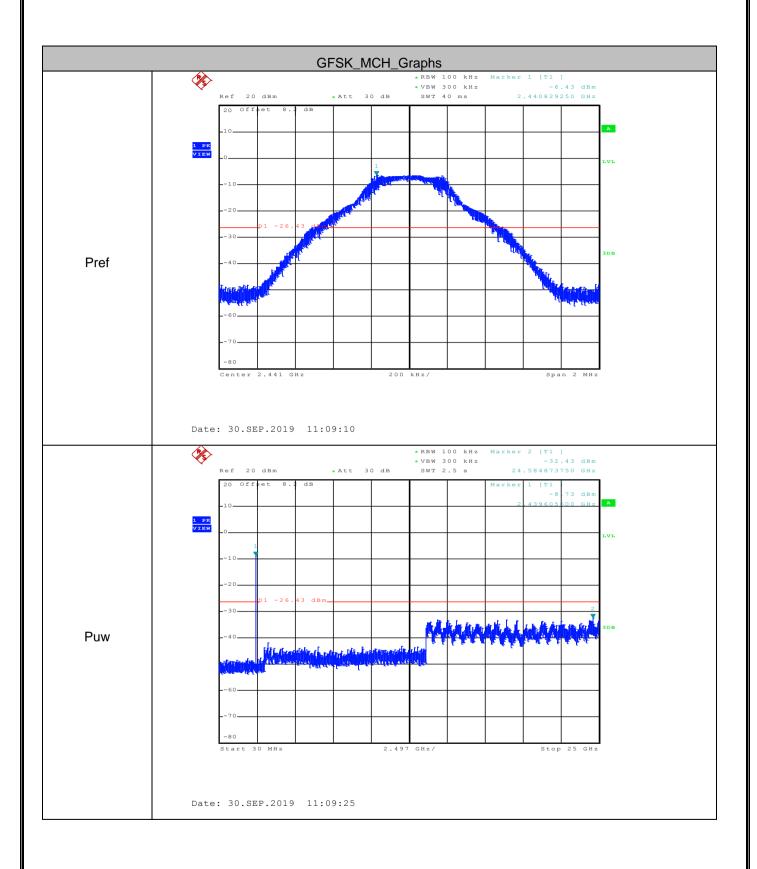
A.6 RF Conducted Spurious Emissions

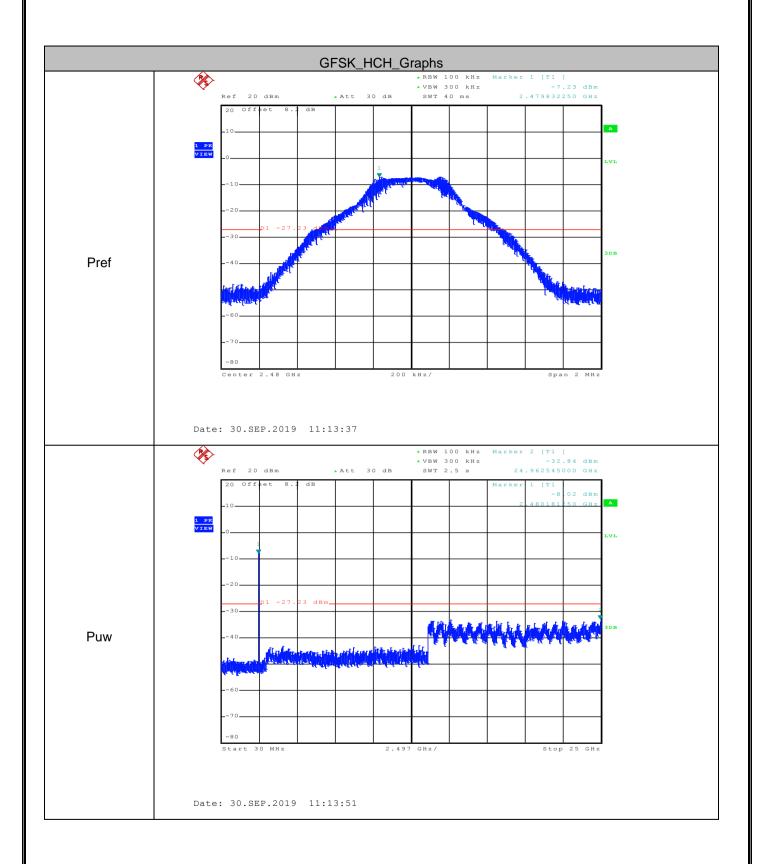
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-6.58	-32.210	-26.580	PASS
GFSK	MCH	-6.43	-32.430	-26.430	PASS
	HCH	-7.23	-32.840	-27.230	PASS
	LCH	-1.06	-31.160	-21.060	PASS
π/4DQPSK	MCH	-0.82	-31.680	-20.820	PASS
	HCH	-1.46	-32.210	-21.460	PASS
	LCH	-2.48	-31.750	-22.480	PASS
8DPSK	MCH	-1.71	-32.400	-21.710	PASS
	HCH	-2.06	-32.630	-22.060	PASS

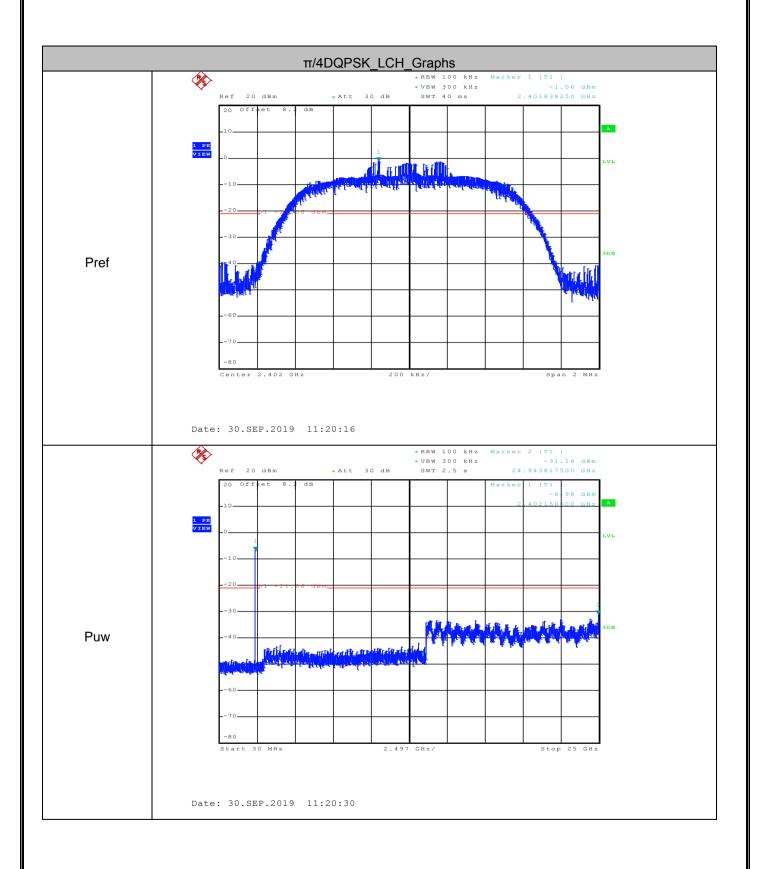


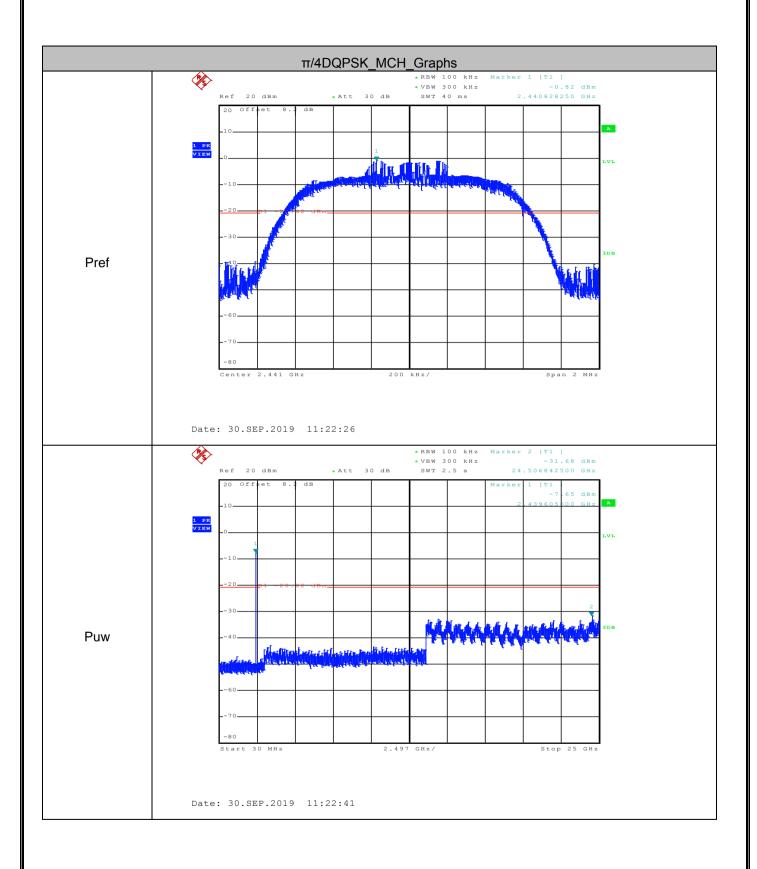
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA

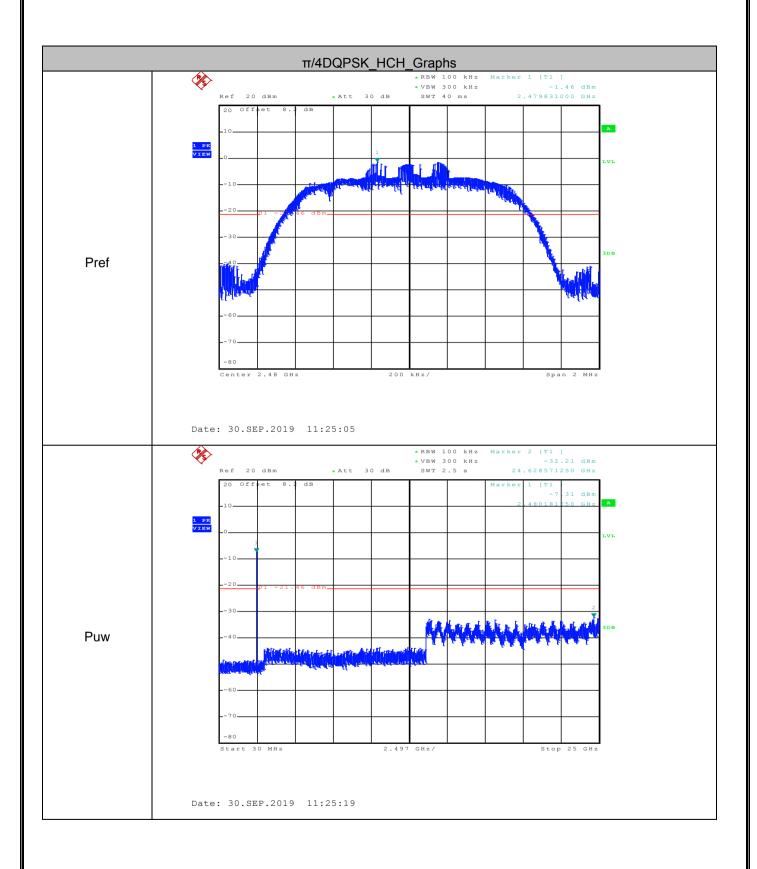


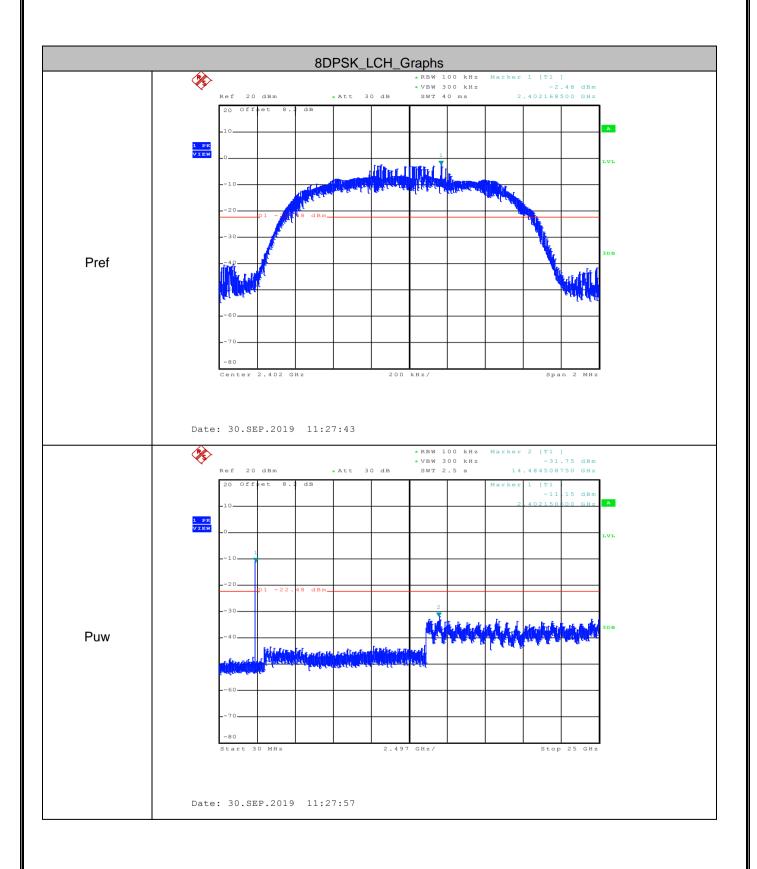


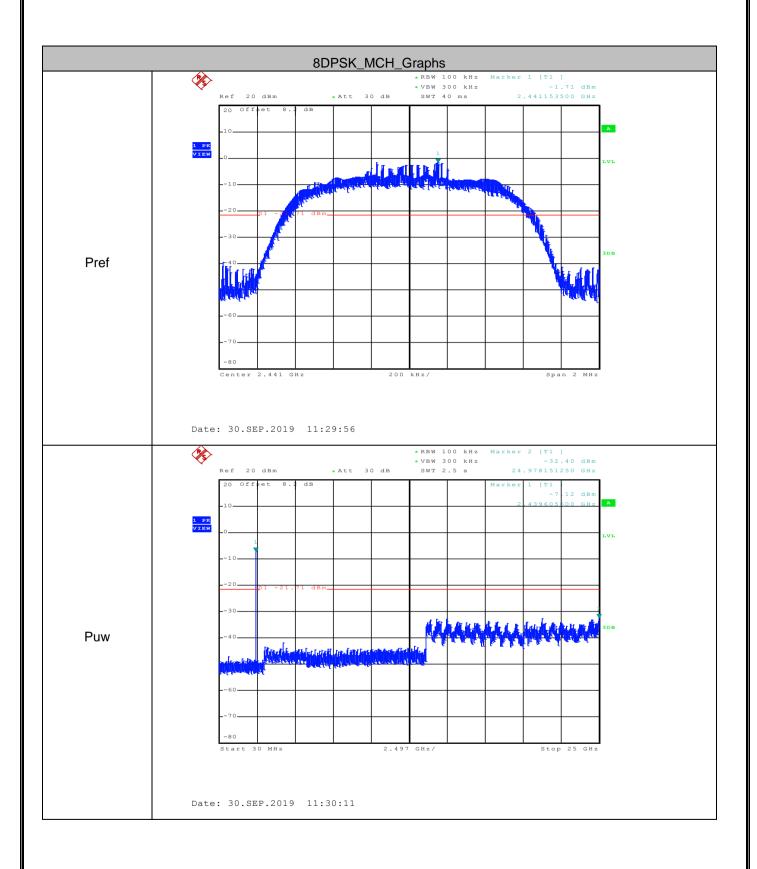


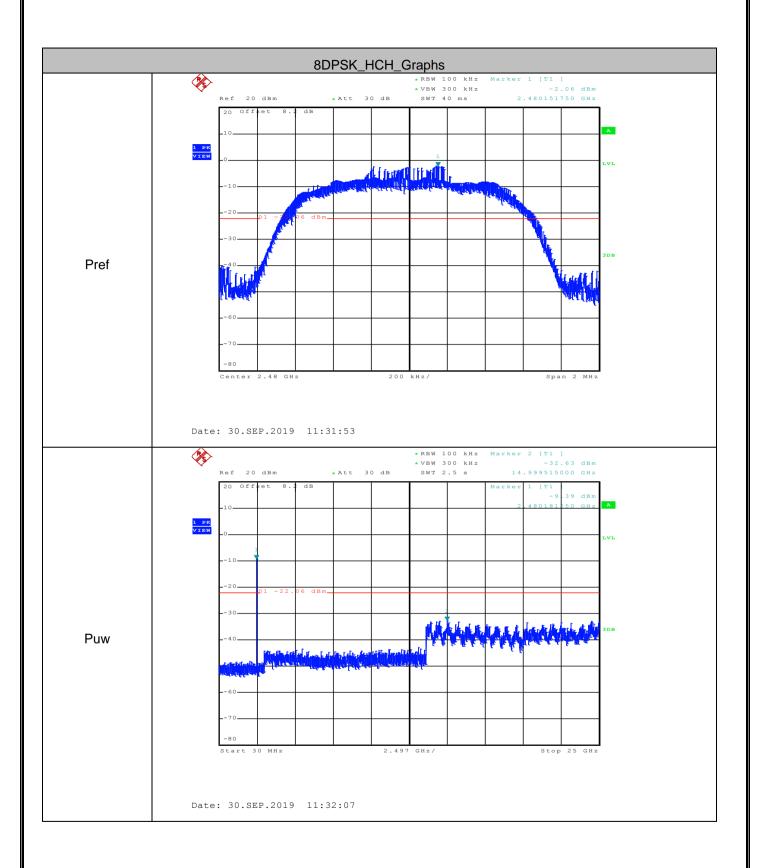






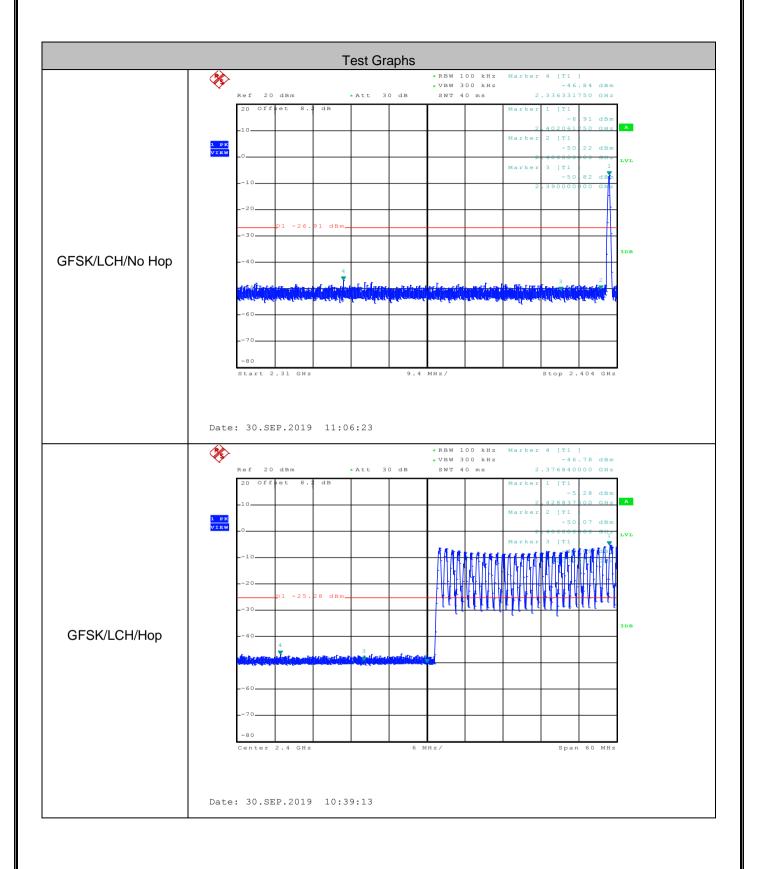






A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict		
		0.400	-6.910	Off	-46.841	-26.91	PASS		
0501	LCH	2402	-5.280	On	-46.777	-25.28	PASS		
GFSK	НСН		-7.310	Off	-47.500	-27.31	PASS		
		2480	-5.600	On	-46.918	-25.6	PASS		
	LCH				-1.760	Off	-47.370	-21.76	PASS
		2402	-6.620	On	-46.594	-26.62	PASS		
π/4DQPSK	нсн		-2.070	Off	-47.221	-22.07	PASS		
		2480	-7.590	On	-46.801	-27.59	PASS		
			-2.320	Off	-47.409	-22.32	PASS		
	LCH	2402	-7.210	On	-46.496	-27.21	PASS		
8DPSK		0.400	-2.960	Off	-47.004	-22.96	PASS		
	HCH	2480	-7.870	On	-46.622	-27.87	PASS		



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA *RBW 100 kHz -47.50 dBm * VBW 300 kHz 31 dBm Marker 2 [T1 -53 02 dBr 1 PK VIEW 3 [T1 Marke GFSK/HCH/No Hop Start 2.478 GHz Stop 2.5 GHz Date: 30.SEP.2019 11:13:24 * RBW 100 kHz * VBW 300 kHz 60 dBm 2 [T1 -49 Marke 1 PK VIEW 80 dBr 3 [T1 GFSK/HCH/Hop Center 2.4835 GHz Span 60 MHz Date: 30.SEP.2019 10:43:54

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA *RBW 100 kHz * VBW 300 kHz Marke: 2 [T1 -51 1 PK VIEW Marke 3 [T1 π/4DQPSK/LCH/No Hop Start 2.31 GHz Stop 2.404 GHz Date: 30.SEP.2019 11:20:02 * RBW 100 kHz * VBW 300 kHz 62 dBm 2 [T1 -49 1 PK VIEW 3 [T1 p1 -26. 62 dBm, $\pi/4DQPSK/LCH/Hop$ Span 60 MHz Center 2.4 GHz Date: 30.SEP.2019 10:50:00

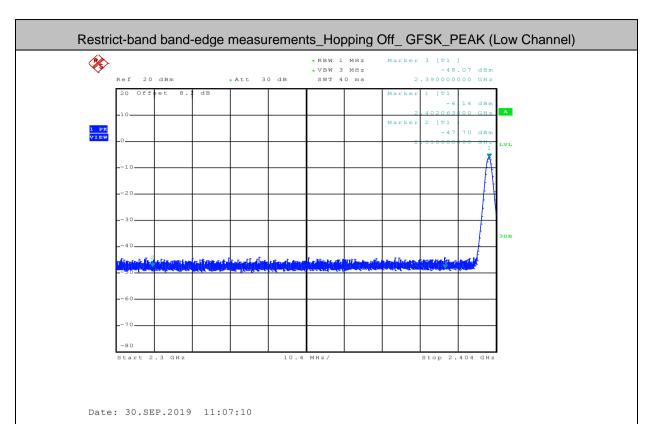
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA *RBW 100 kHz -47.22 dBm * VBW 300 kHz Marker 2 [T1 -50 1 PK VIEW 3 [T1 Marke π/4DQPSK/HCH/No Hop Start 2.478 GHz Stop 2.5 GHz Date: 30.SEP.2019 11:24:52 * RBW 100 kHz * VBW 300 kHz 59 dBm 2 [T1 -49 Marke 1 PK VIEW 22 dBr 3 [T1 $\pi/4DQPSK/HCH/Hop$ Center 2.4835 GHz Span 60 MHz Date: 30.SEP.2019 10:53:19

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA *RBW 100 kHz * VBW 300 kHz 32 dBm Marke: 2 [T1 -51 1 PK VIEW 3 [T1 Marke 8DPSK/LCH/No Hop Start 2.31 GHz Stop 2.404 GHz Date: 30.SEP.2019 11:27:30 * RBW 100 kHz * VBW 300 kHz 21 dBm 2 [T1 -50 1 PK VIEW 8DPSK/LCH/Hop Span 60 MHz Center 2.4 GHz Date: 30.SEP.2019 10:59:11

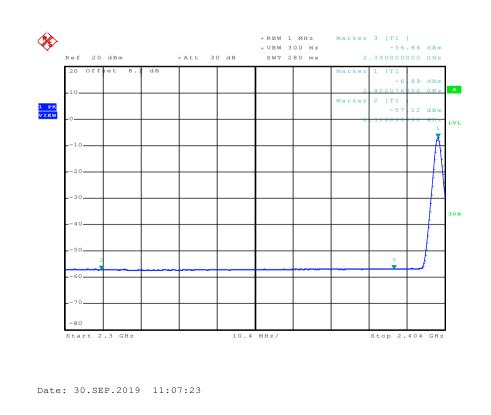
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADDH-39160 Report No.: LCS190905033AEA *RBW 100 kHz -47.00 dBm * VBW 300 kHz 96 dBm Marker 2 [T1 -52 1 PK VIEW Marke 3 [T1 8DPSK/HCH/No Hop Start 2.478 GHz Stop 2.5 GHz Date: 30.SEP.2019 11:31:40 * RBW 100 kHz * VBW 300 kHz 87 dBm 2 [T1 -49 Marke 1 PK VIEW 3 [T1 8DPSK/HCH/Hop Center 2.4835 GHz Span 60 MHz Date: 30.SEP.2019 11:02:36

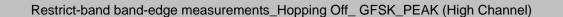
A.8 Restrict-band band-edge measurements

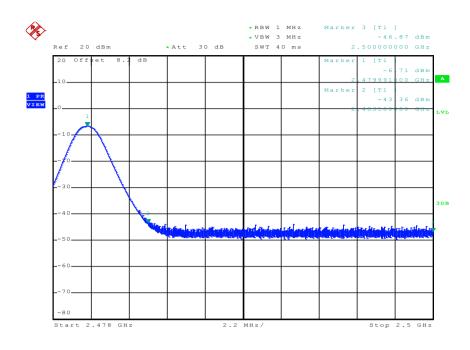
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-47.70	2.0	0	47.56	PEAK	74	PASS
	Off	2310.0	-57.12	2.0	0	38.14	AV	54	PASS
	Off	2390.0	-48.07	2.0	0	47.19	PEAK	74	PASS
0501	Off	2390.0	-56.84	2.0	0	38.42	AV	54	PASS
GFSK	Off	2483.5	-43.36	2.0	0	51.90	PEAK	74	PASS
	Off	2483.5	-48.60	2.0	0	46.66	AV	54	PASS
	Off	2500.0	-46.87	2.0	0	48.39	PEAK	74	PASS
	Off	2500.0	-57.37	2.0	0	37.89	AV	54	PASS
	Off	2310.0	-47.11	2.0	0	48.15	PEAK	74	PASS
	Off	2310.0	-57.05	2.0	0	38.21	AV	54	PASS
	Off	2390.0	-47.53	2.0	0	47.73	PEAK	74	PASS
/4D0D0K	Off	2390.0	-56.81	2.0	0	38.45	AV	54	PASS
π/4DQPSK	Off	2483.5	-39.61	2.0	0	55.65	PEAK	74	PASS
	Off	2483.5	-45.76	2.0	0	49.50	AV	54	PASS
	Off	2500.0	-47.23	2.0	0	48.03	PEAK	74	PASS
	Off	2500.0	-57.39	2.0	0	37.87	AV	54	PASS
	Off	2310.0	-47.39	2.0	0	47.87	PEAK	74	PASS
	Off	2310.0	-57.09	2.0	0	38.17	AV	54	PASS
	Off	2390.0	-48.07	2.0	0	47.19	PEAK	74	PASS
255014	Off	2390.0	-56.81	2.0	0	38.45	AV	54	PASS
8DPSK	Off	2483.5	-40.72	2.0	0	54.54	PEAK	74	PASS
	Off	2483.5	-46.15	2.0	0	49.11	AV	54	PASS
	Off	2500.0	-46.95	2.0	0	48.31	PEAK	74	PASS
	Off	2500.0	-57.40	2.0	0	37.86	AV	54	PASS



Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)

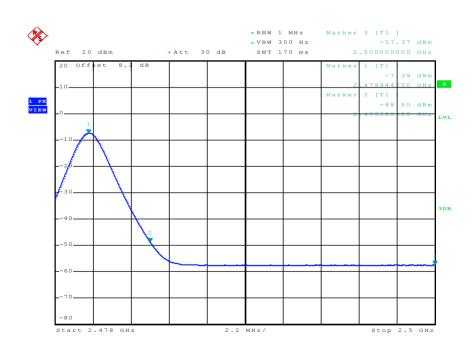




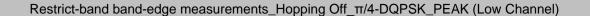


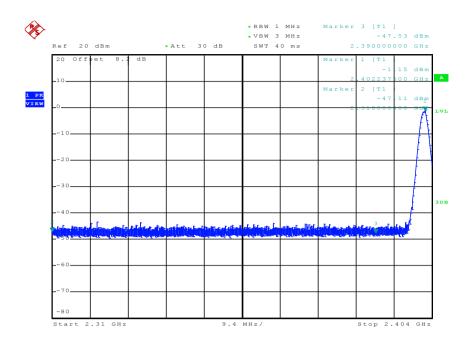
Date: 30.SEP.2019 11:14:10

Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



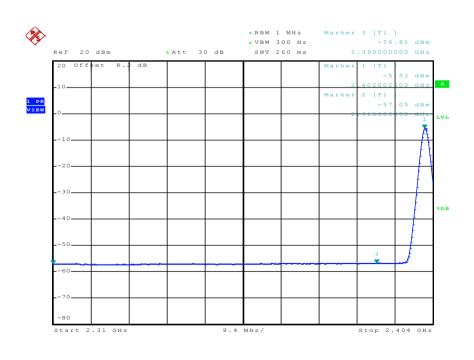
Date: 30.SEP.2019 11:14:23



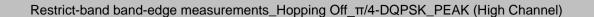


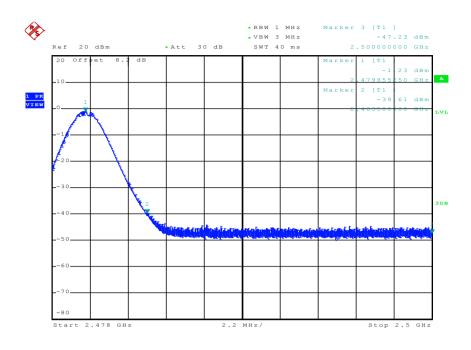
Date: 30.SEP.2019 11:20:49

Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



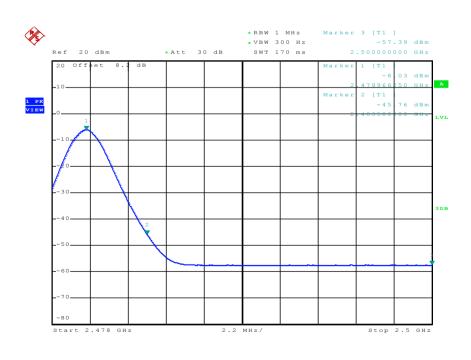
Date: 30.SEP.2019 11:21:02



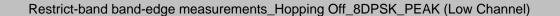


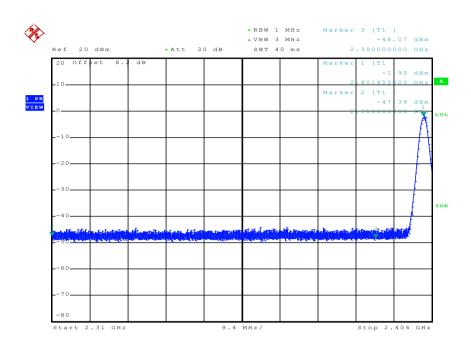
Date: 30.SEP.2019 11:25:38

Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



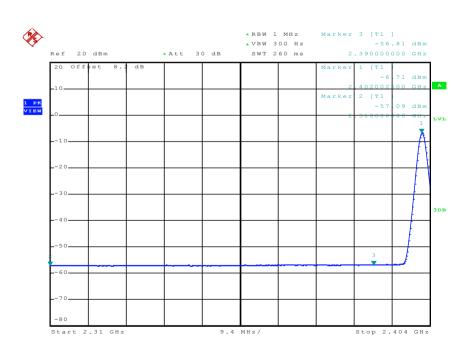
Date: 30.SEP.2019 11:25:51





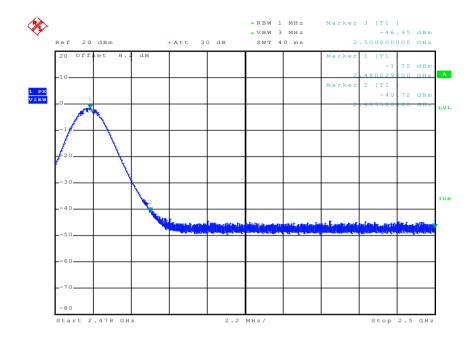
Date: 30.SEP.2019 11:28:16

Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



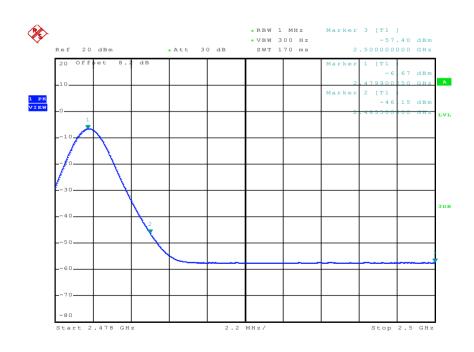
Date: 30.SEP.2019 11:28:30

Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (High Channel)



Date: 30.SEP.2019 11:32:26

Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (High Channel)



Date: 30.SEP.2019 11:32:39