

Appendix A

RF Test Data for GFSK (Conducted Measurement)

Product Name: Digital Video Baby Monitor

Trade Mark: /

Test Model: VB605-M

Environmental Conditions

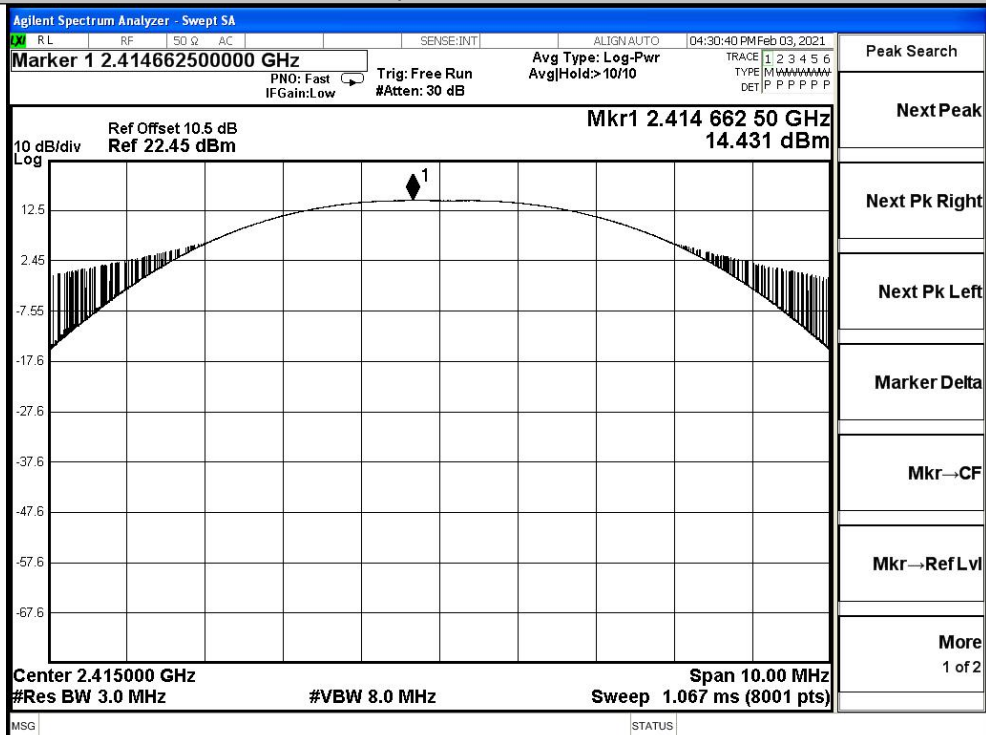
Temperature:	24.6 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

A.1 Maxmum Conducted Peak Output Power

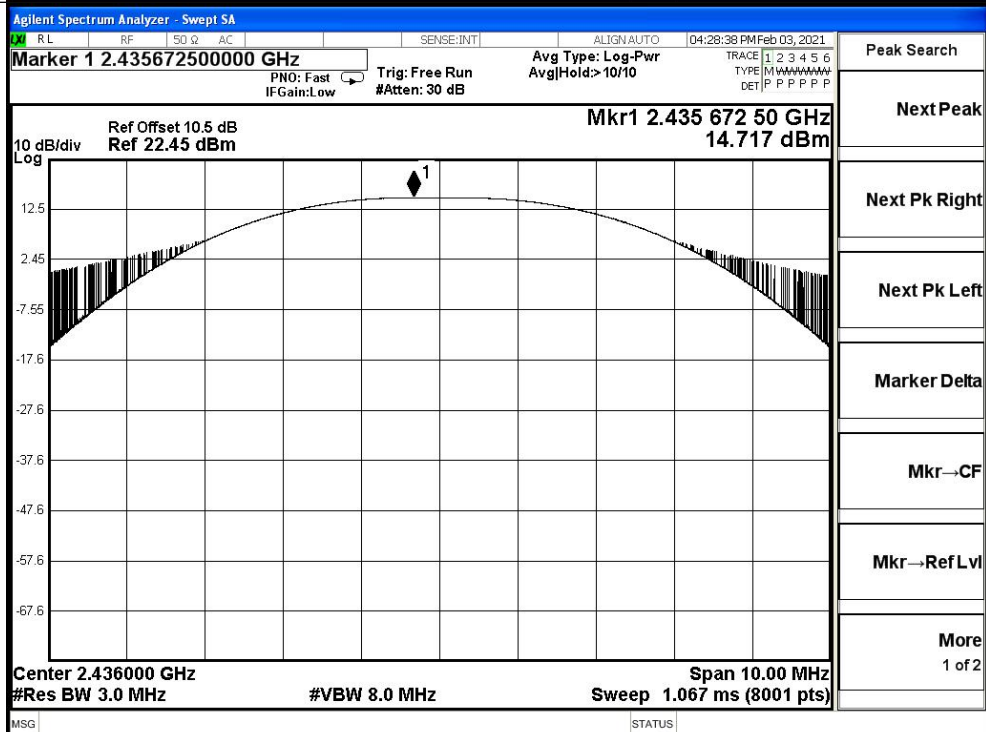
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	14.431	21	PASS
	MCH	14.717	21	PASS
	HCH	14.457	21	PASS

Test Graphs

GFSK/LCH



GFSK/MCH



Agilent Spectrum Analyzer - Swept SA

ON	R/L	RF	SQ	Z	AC	SENSE:INT	ALIGN:AUTO	04:29:14 PM Feb 03, 2021
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Marker 1 2.459553750000 GHz

PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: >10/10

TRACE 1 2 3 4 5 6
TYPE M M M M M M M M
DET P P P P P P P

Ref Offset 10.6 dB Ref 22.45 dBm Mkr1 2.459 553 75 GHz 14.457 dBm

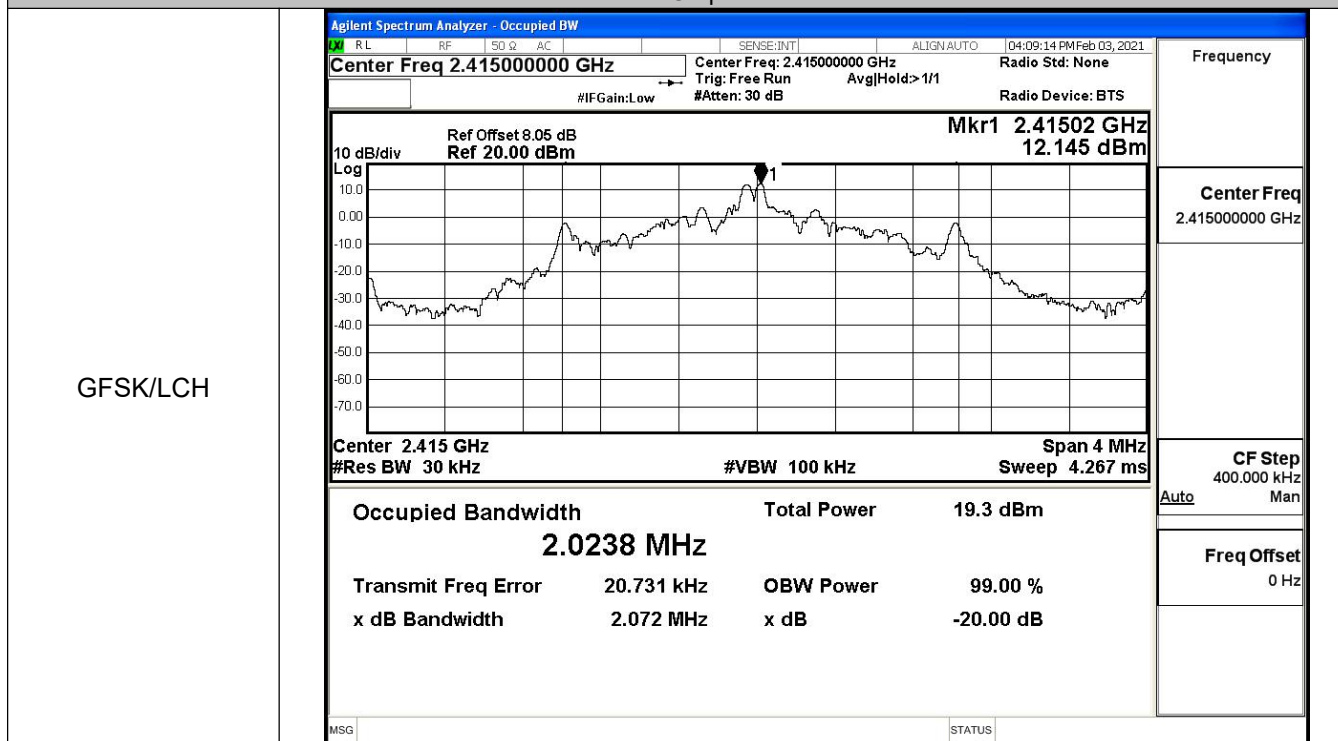
Center 2.460000 GHz Span 10.00 MHz
#Res BW 3.0 MHz #VBW 8.0 MHz Sweep 1.067 ms (8001 pts)

MSG STATUS

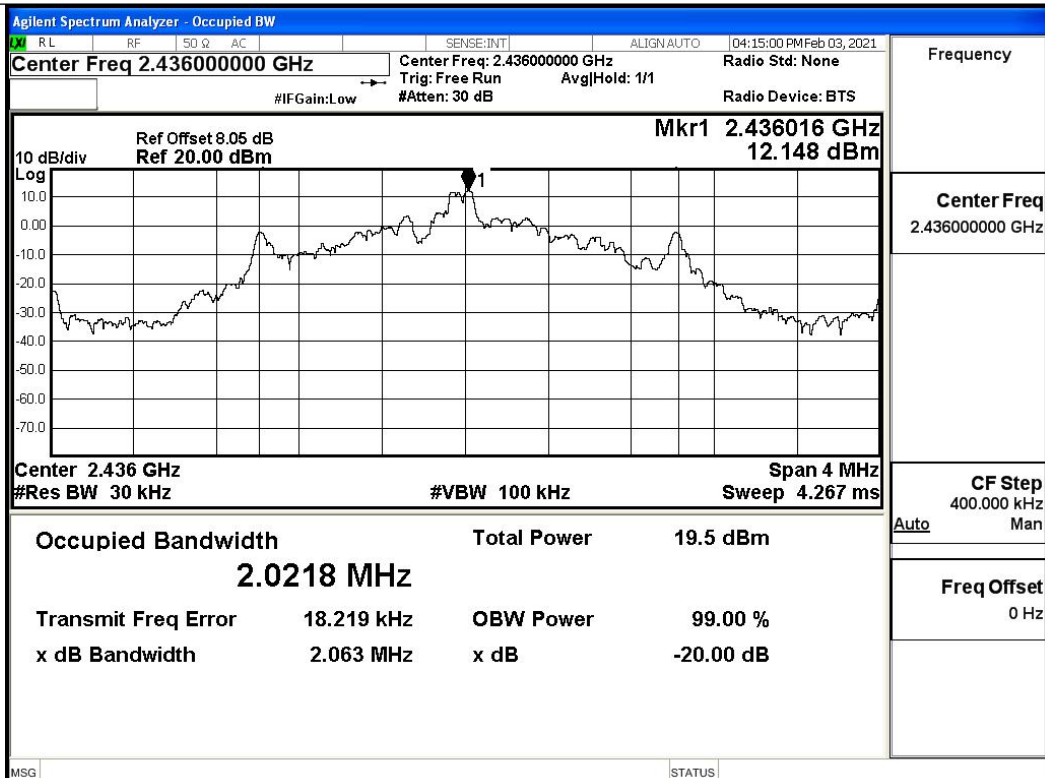
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	2.0238	Not Specified	PASS
	MCH	2.0218	Not Specified	PASS
	HCH	2.0270	Not Specified	PASS

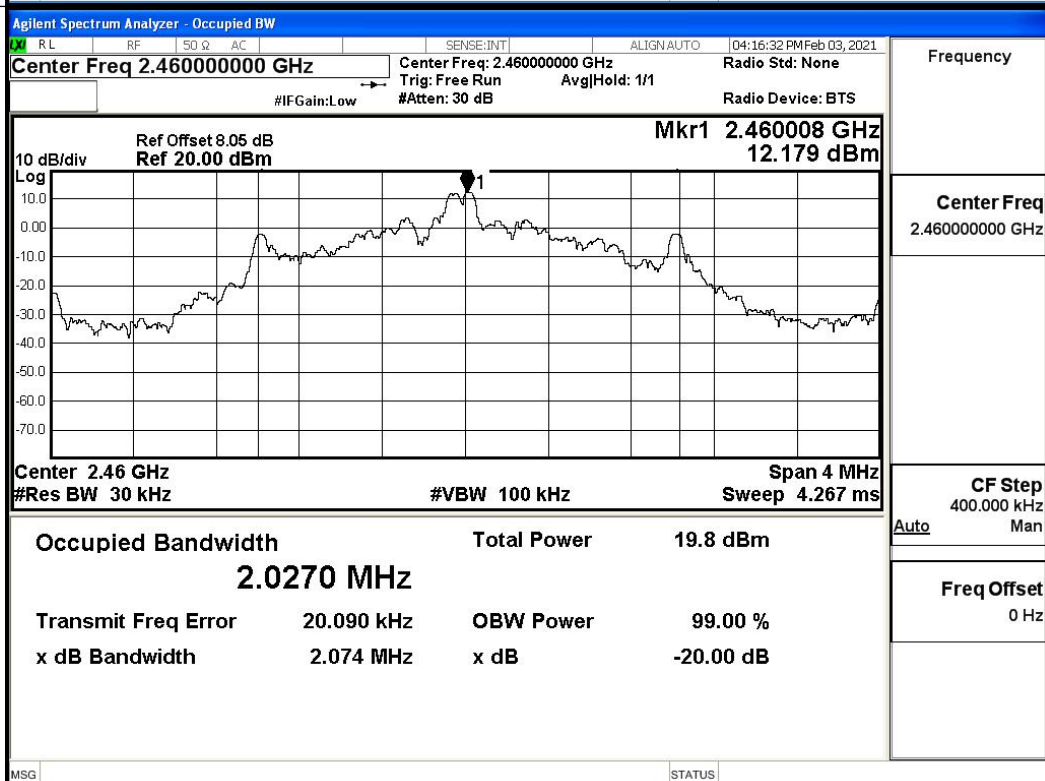
Test Graphs



GFSK/MCH

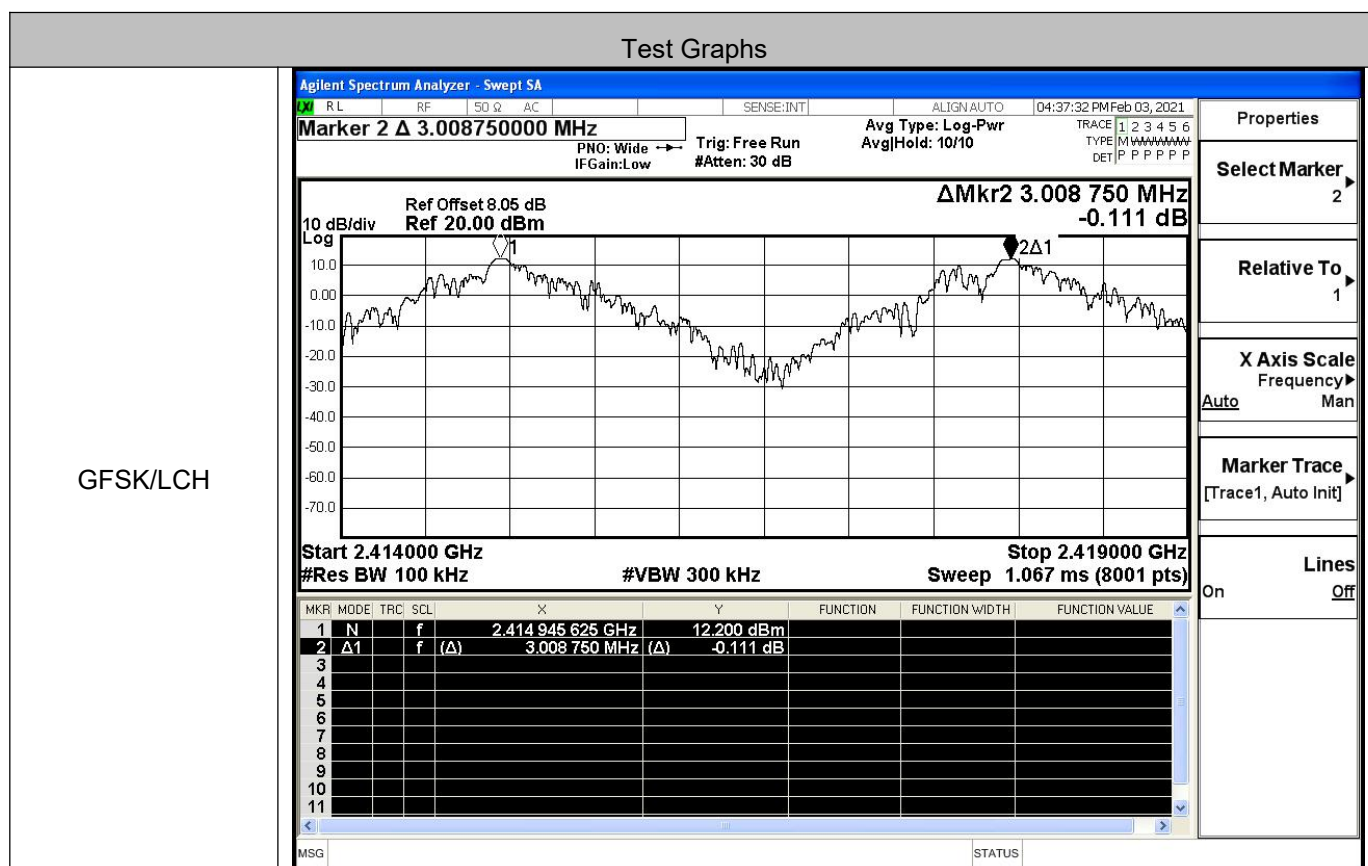


GFSK/HCH

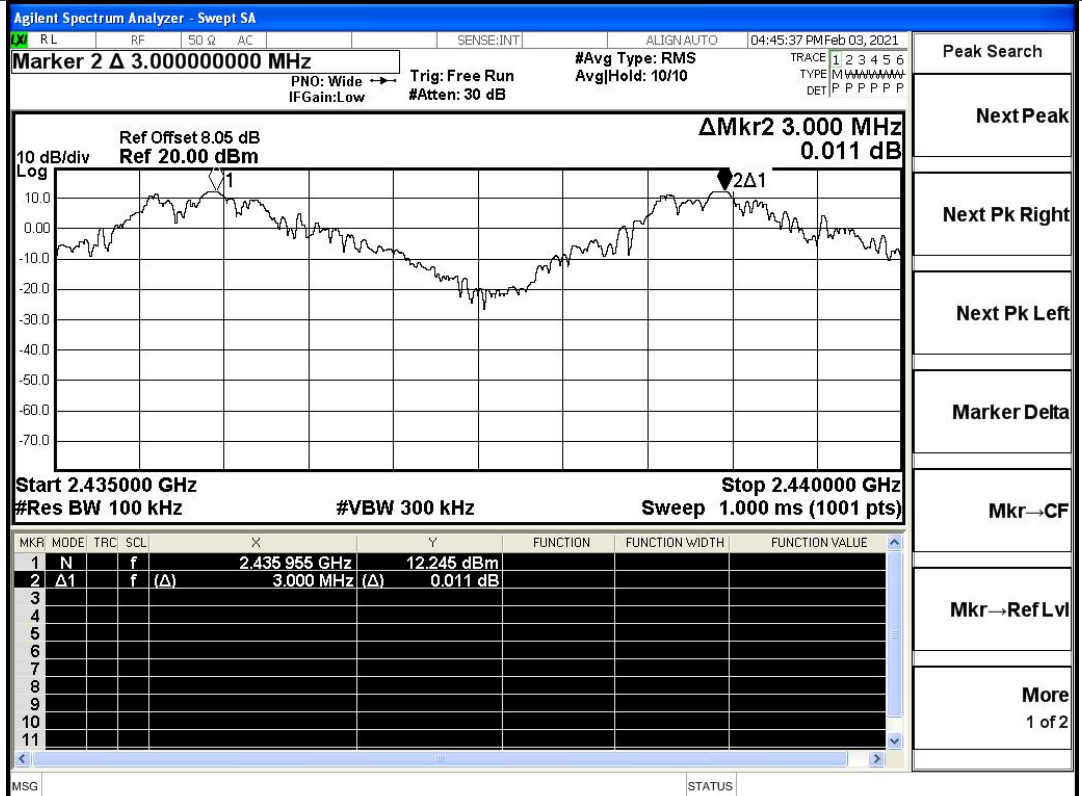


A.3 Carrier Frequency Separation

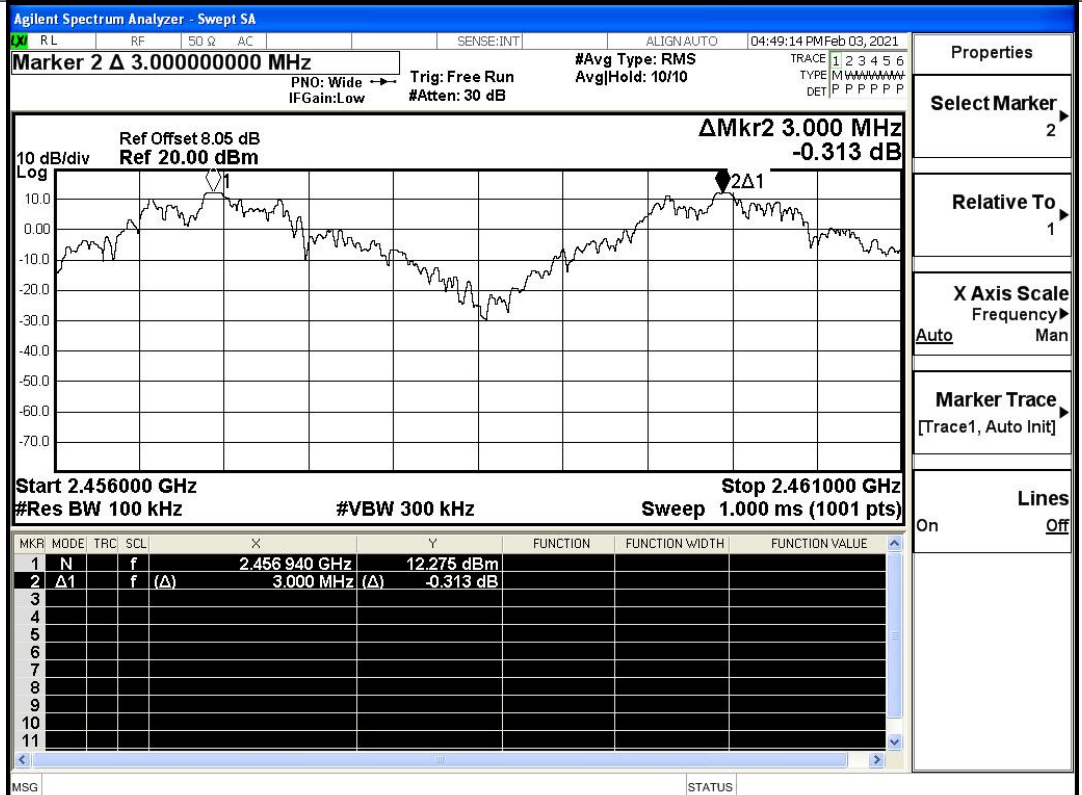
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	3.008	1.375	PASS
	MCH	3.000	1.375	PASS
	HCH	3.000	1.375	PASS



GFSK/MCH

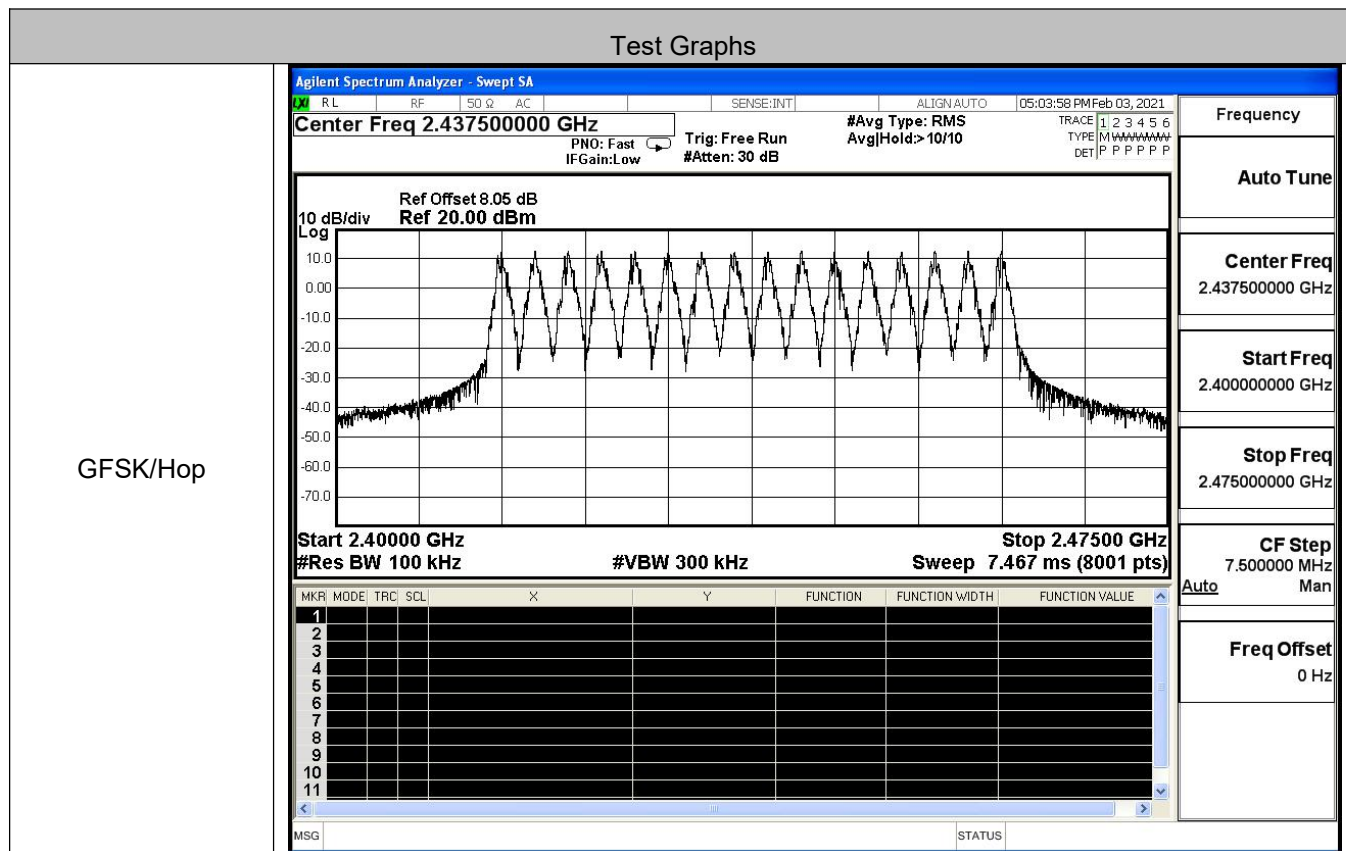


GFSK/HCH



A.4 Hopping Channel Number

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	16	>=15	PASS

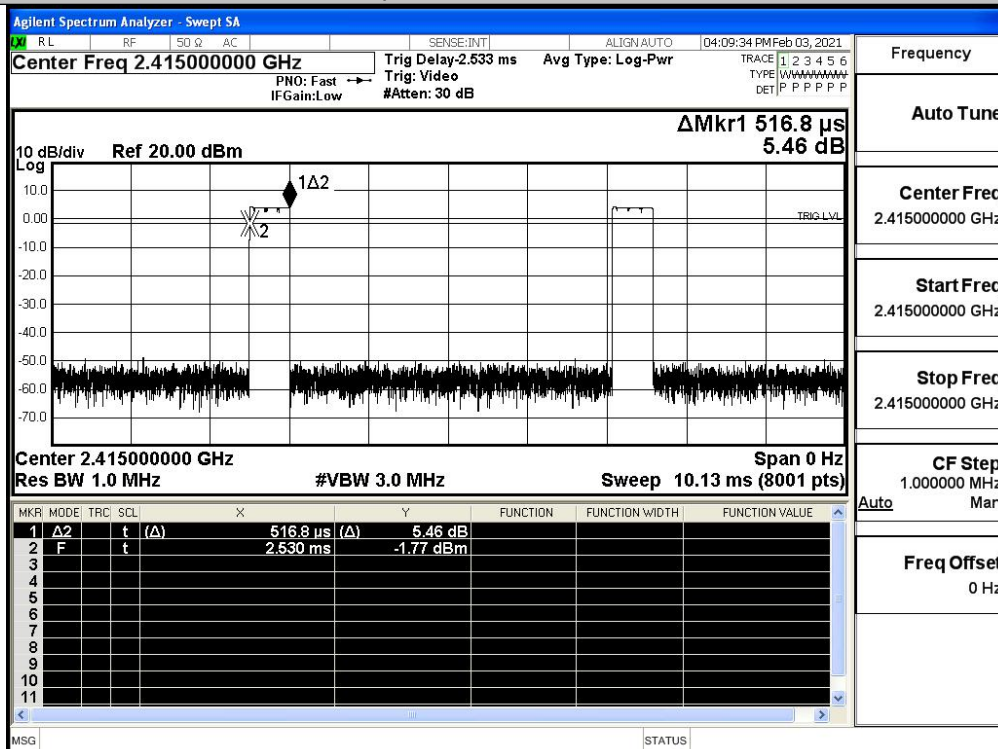


A.5 Dwell Time

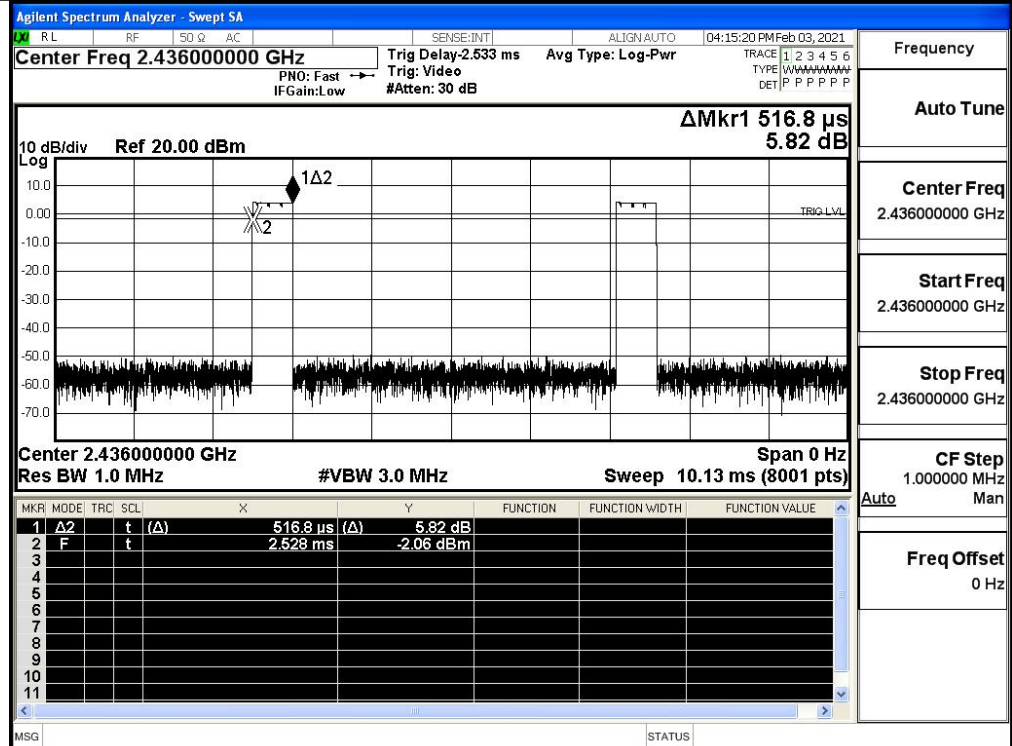
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	0.517	106.7	0.055	0.4	PASS
	DH5	MCH	0.517	106.7	0.055	0.4	PASS
	DH5	HCH	0.517	106.7	0.055	0.4	PASS

Test Graphs

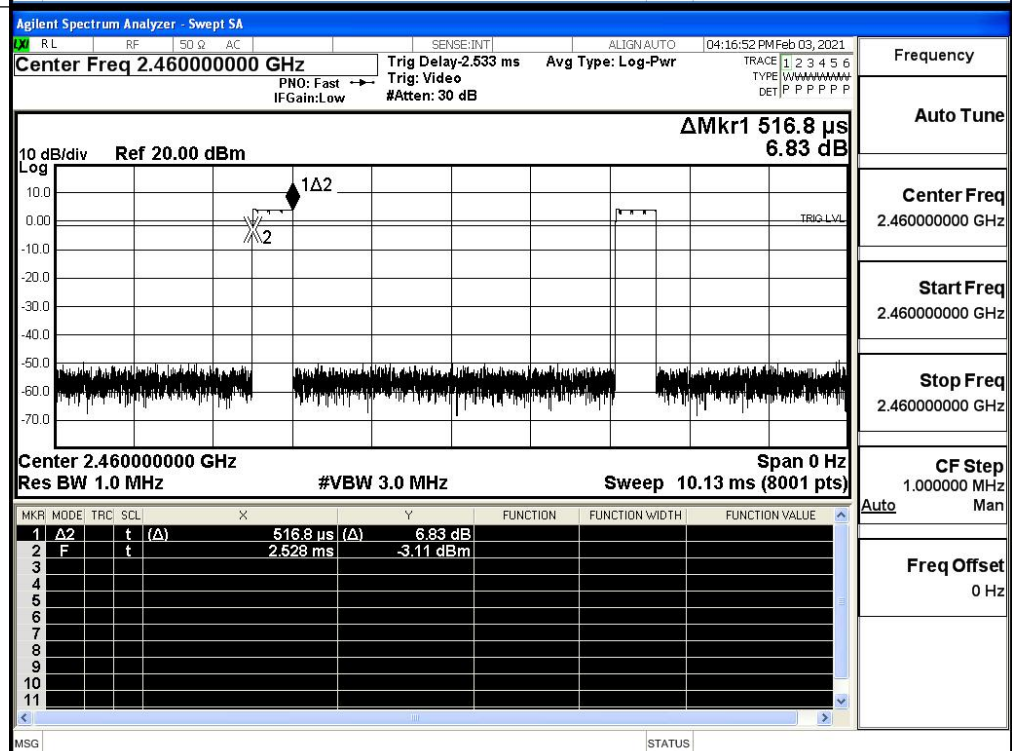
GFSK_DH5/LCH



GFSK_DH5/MCH



GFSK_DH5/HCH

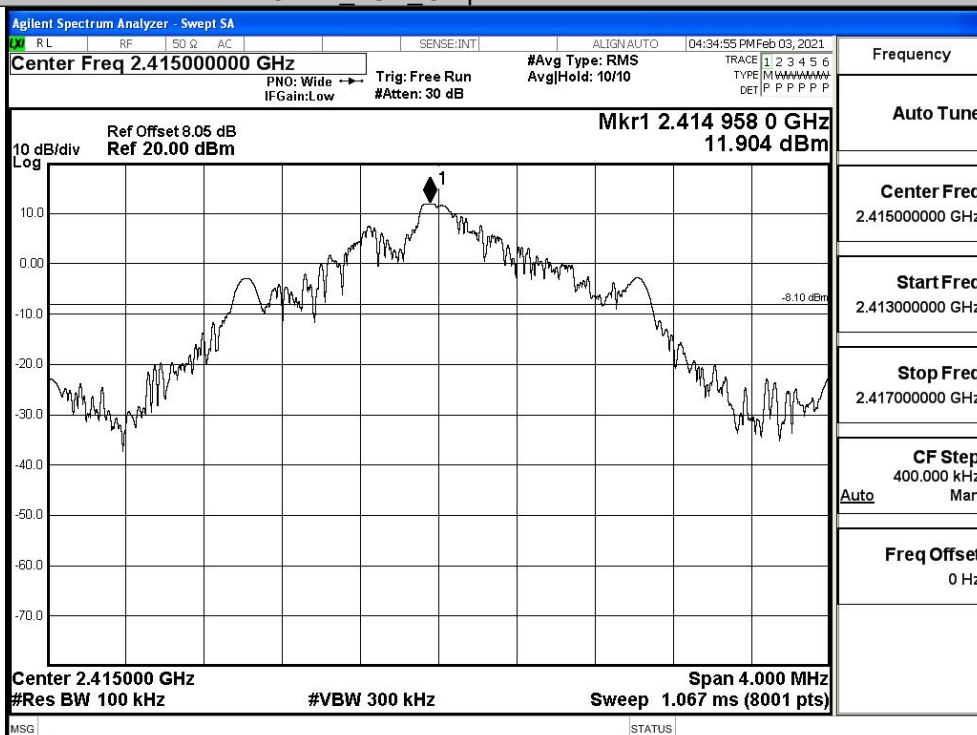


A.6 RF Conducted Spurious Emissions

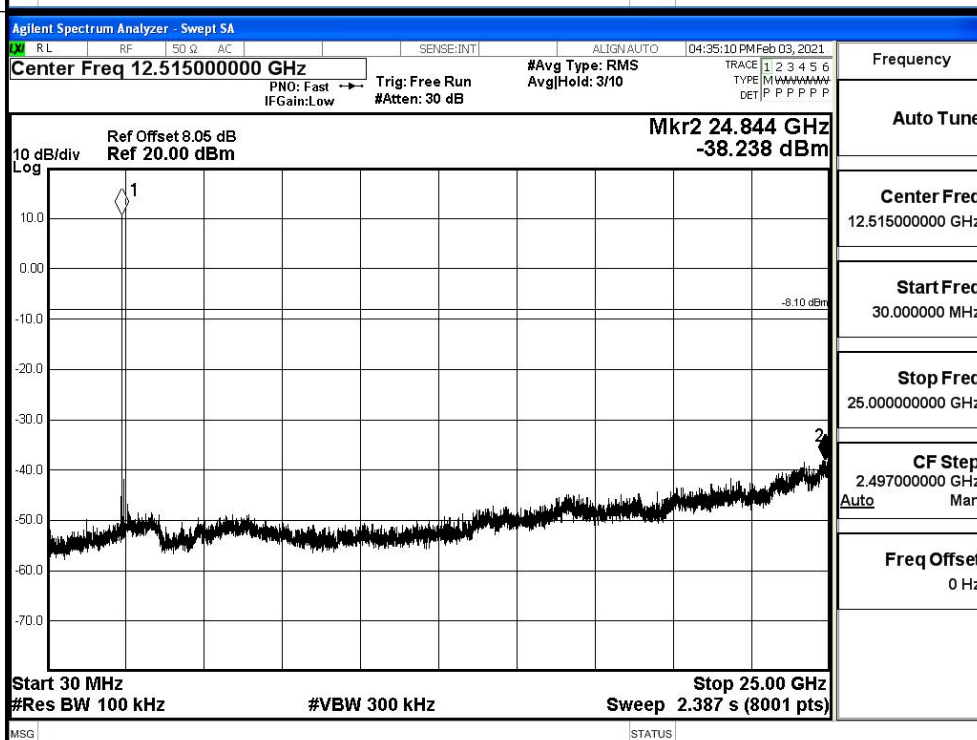
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	11.904	-38.238	-8.10	PASS
	MCH	12.177	-37.874	-7.82	PASS
	HCH	11.582	-38.018	-8.42	PASS

GFSK LCH Graphs

Pref

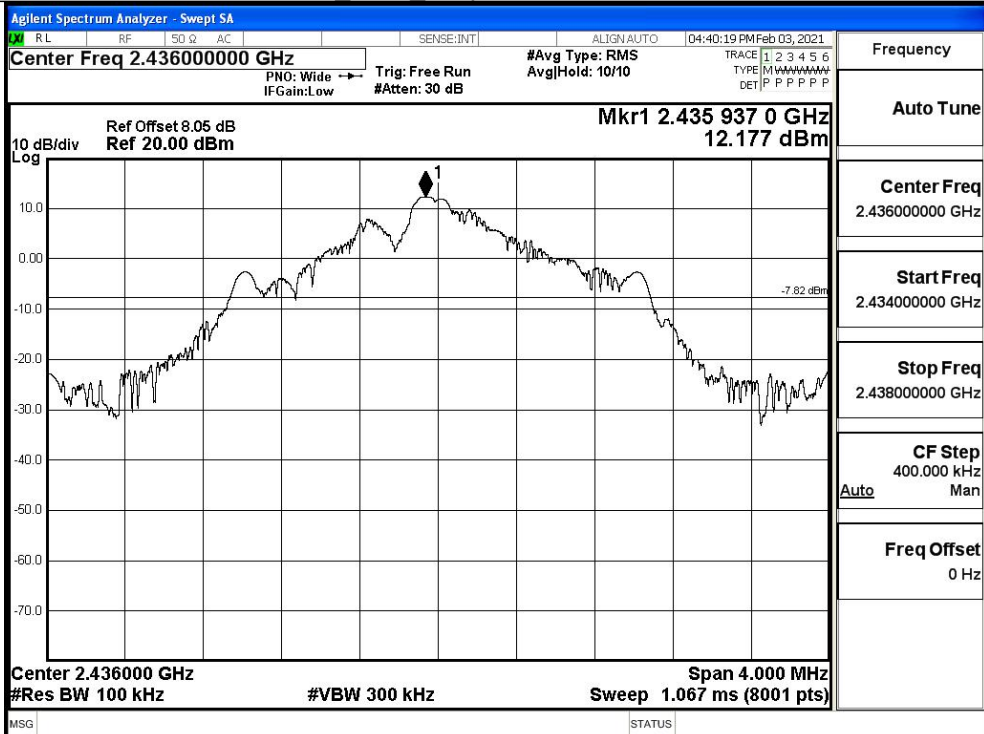


Puw

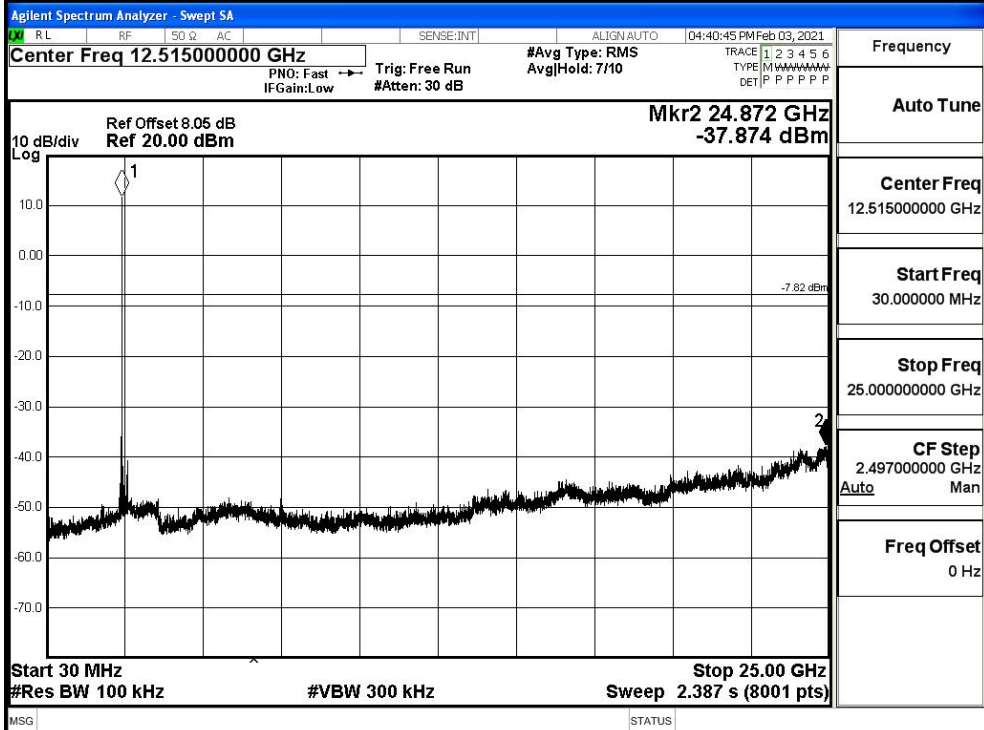


GFSK MCH Graphs

Pref

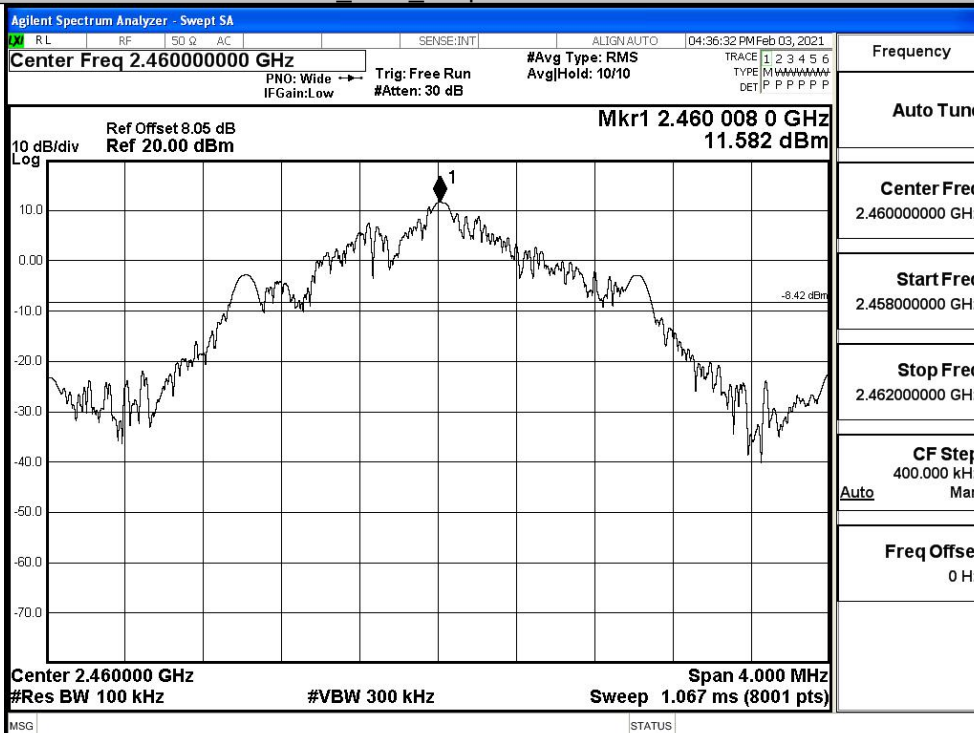


Puw



GFSK HCH_Graphs

Pref



Puw

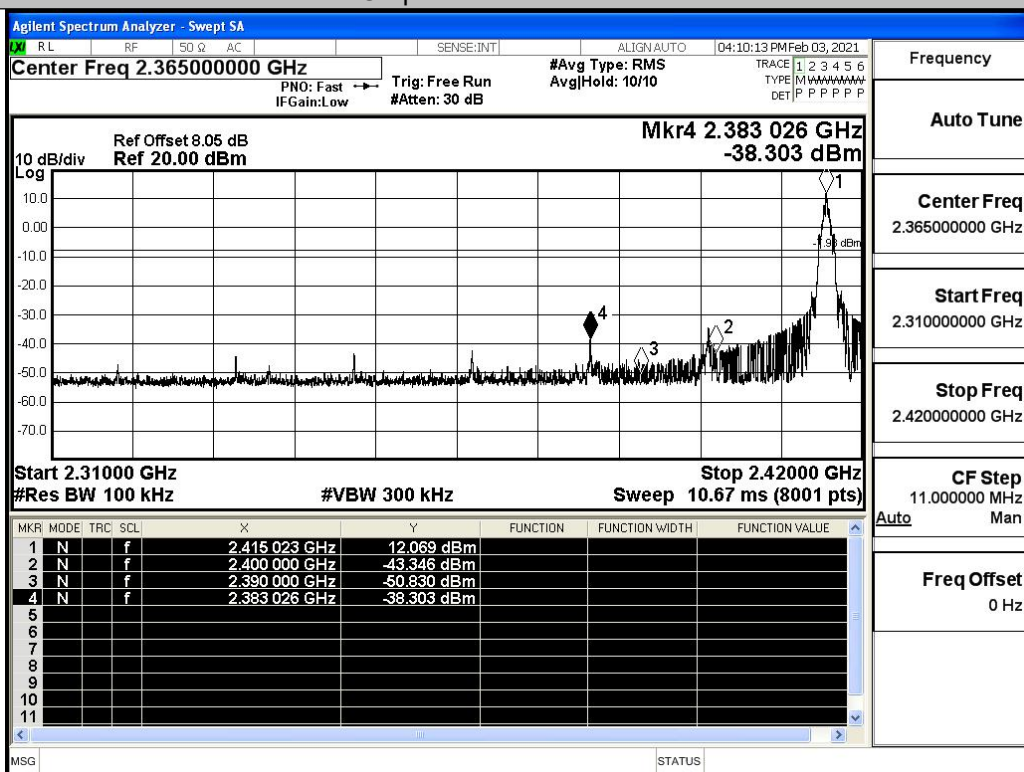


A.7 Band-edge for RF Conducted Emissions

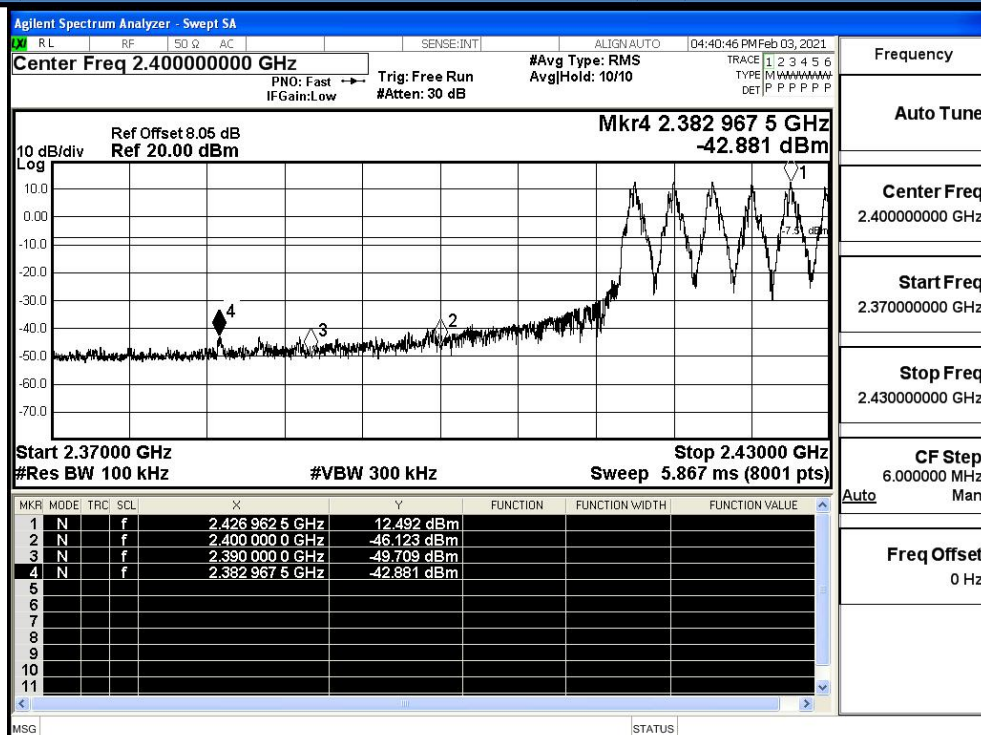
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2415	12.069	Off	-38.303	-7.93	PASS
			12.492	On	-42.881	-7.51	PASS
	HCH	2460	12.646	Off	-39.281	-7.35	PASS
			12.476	On	-44.031	-7.52	PASS

Test Graphs

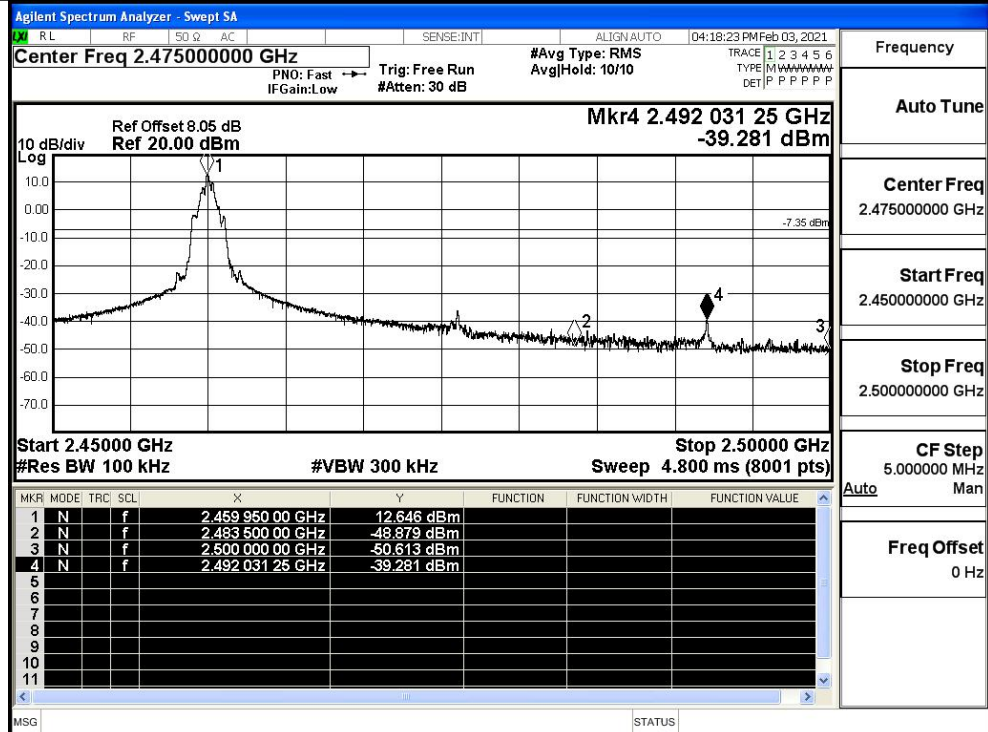
GFSK/LCH/No Hop



GFSK/LCH/Hop



GFSK/HCH/No Hop

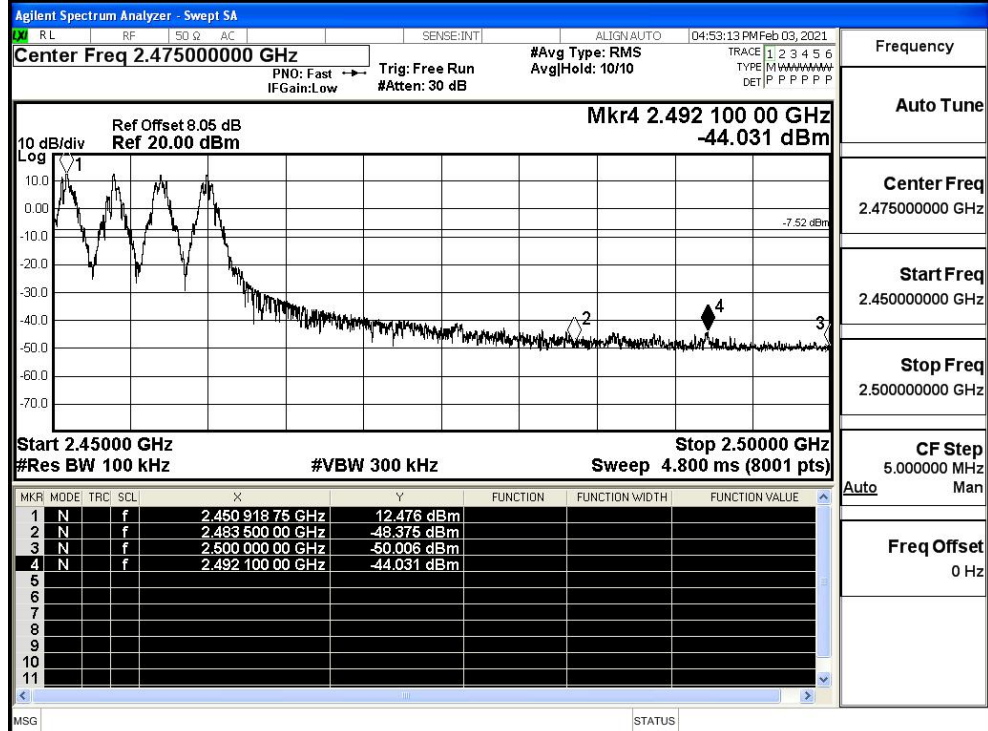


Frequency

Auto Tune

Center Freq
2.475000000 GHzStart Freq
2.450000000 GHzStop Freq
2.500000000 GHzCF Step
5.000000 MHz
Auto ManFreq Offset
0 Hz

GFSK/HCH/Hop



Frequency

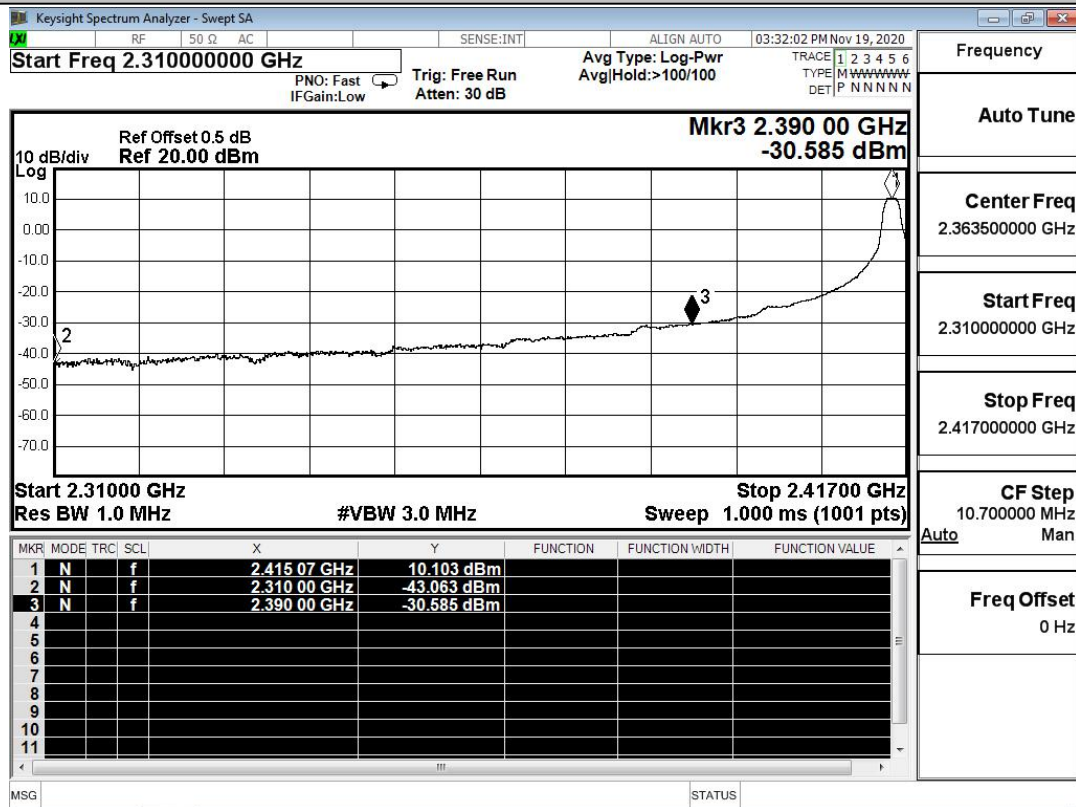
Auto Tune

Center Freq
2.475000000 GHzStart Freq
2.450000000 GHzStop Freq
2.500000000 GHzCF Step
5.000000 MHz
Auto ManFreq Offset
0 Hz

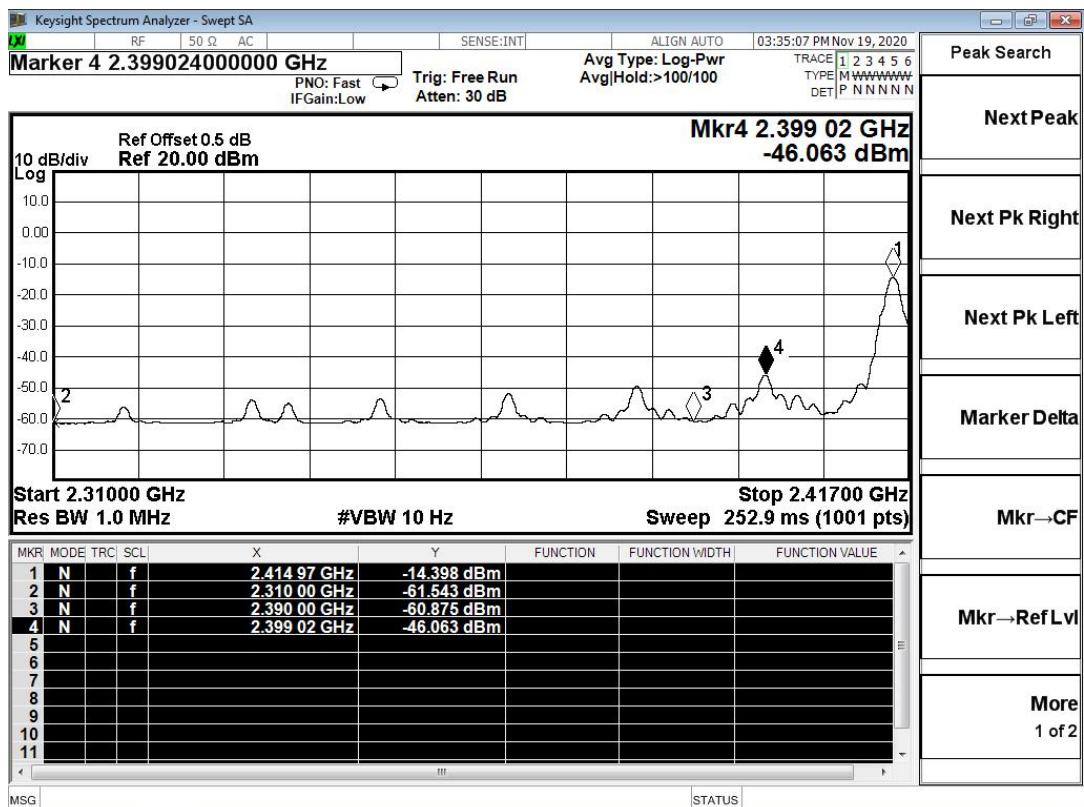
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-43.06	2.0	0	54.20	PEAK	74	PASS
	Off	2310.0	-61.54	2.0	0	35.72	AV	54	PASS
	Off	2390.0	-30.59	2.0	0	66.67	PEAK	74	PASS
	Off	2390.0	-60.88	2.0	0	36.38	AV	54	PASS
	Off	2483.5	-32.13	2.0	0	65.13	PEAK	74	PASS
	Off	2483.5	-61.06	2.0	0	36.20	AV	54	PASS
	Off	2500.0	-38.31	2.0	0	58.95	PEAK	74	PASS
	Off	2500.0	-61.18	2.0	0	36.08	AV	54	PASS

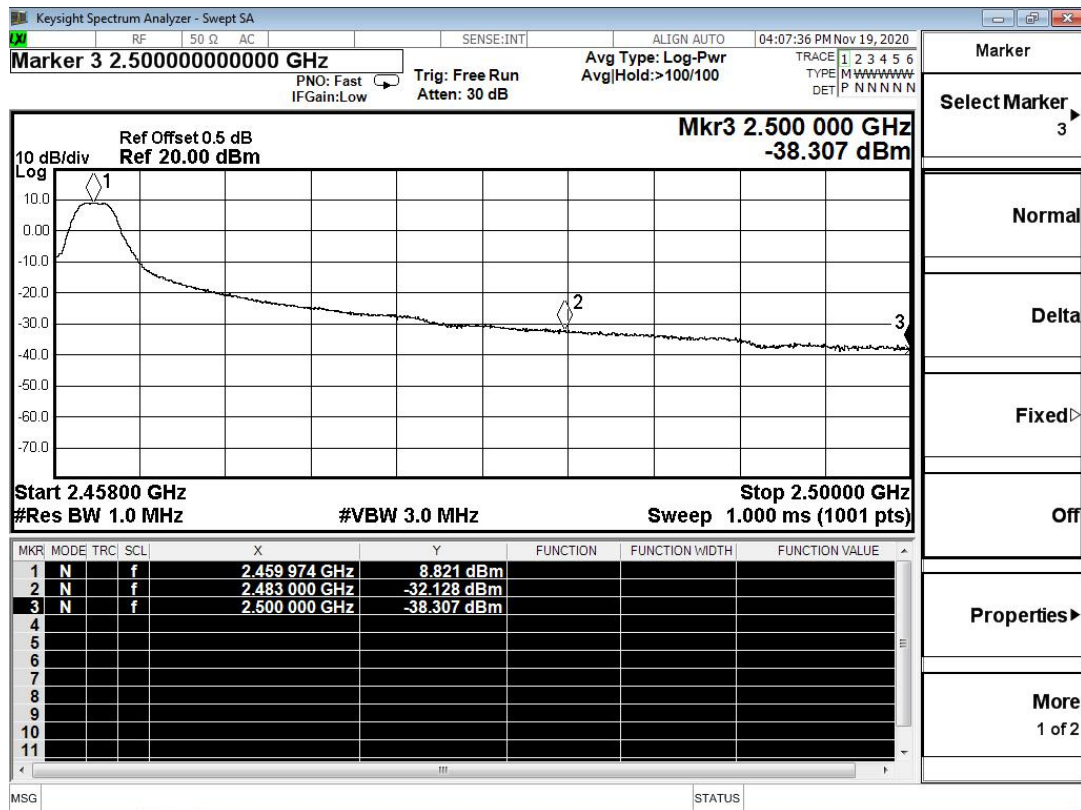
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (Low Channel)



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



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



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

