

## Appendix F: Test Data for E-UTRA Band 17

**Product Name: 4G Car DVR**

**Trade Mark: AddSecure**

**Test Model: AddSecure FFC LTE NA**

### Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

## F.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.68	20.60	PASS
		1	12	21.72	19.81	PASS
		1	24	21.64	20.18	PASS
		12	0	20.58	19.58	PASS
		12	6	20.43	19.39	PASS
		12	13	20.53	19.47	PASS
		25	0	20.63	19.68	PASS
	MCH	1	0	21.42	20.18	PASS
		1	12	21.64	20.20	PASS
		1	24	21.35	19.97	PASS
		12	0	20.41	20.06	PASS
		12	6	20.20	19.79	PASS
		12	13	20.18	19.74	PASS
		25	0	20.88	19.96	PASS
	HCH	1	0	21.58	20.21	PASS
		1	12	21.80	20.15	PASS
		1	24	21.41	20.17	PASS
		12	0	20.76	19.33	PASS
		12	6	20.51	19.27	PASS
		12	13	20.47	19.31	PASS
		25	0	20.56	19.73	PASS

## Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)

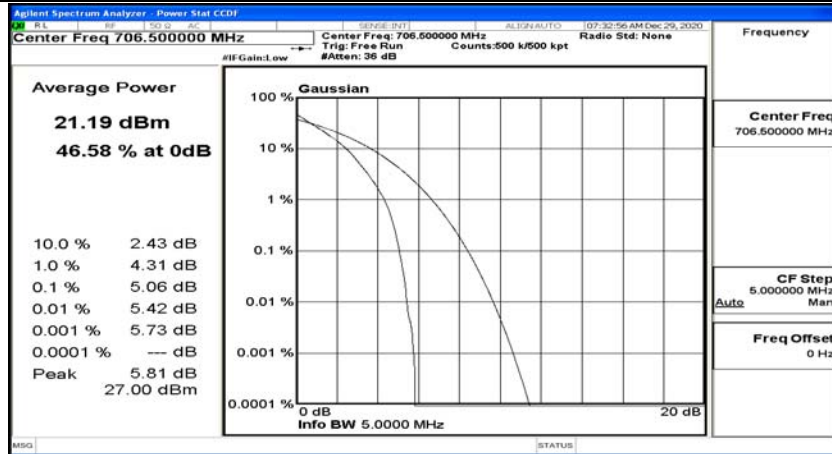
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.23	21.54	PASS
		1	24	22.17	21.64	PASS
		1	49	21.85	20.68	PASS
		25	0	21.28	20.26	PASS
		25	12	21.08	20.04	PASS
		25	25	20.86	19.89	PASS
		50	0	21.53	20.05	PASS
	MCH	1	0	22.18	21.61	PASS
		1	24	21.70	21.42	PASS
		1	49	21.46	21.10	PASS
		25	0	21.16	20.15	PASS
		25	12	20.99	19.83	PASS
		25	25	20.89	19.65	PASS
		50	0	20.89	19.88	PASS
	HCH	1	0	22.30	20.97	PASS
		1	24	21.59	20.73	PASS
		1	49	21.63	19.90	PASS
		25	0	21.11	19.96	PASS
		25	12	20.91	19.72	PASS
		25	25	20.79	19.79	PASS
		50	0	20.91	19.82	PASS

**F.2 Peak-to-Average Ratio**

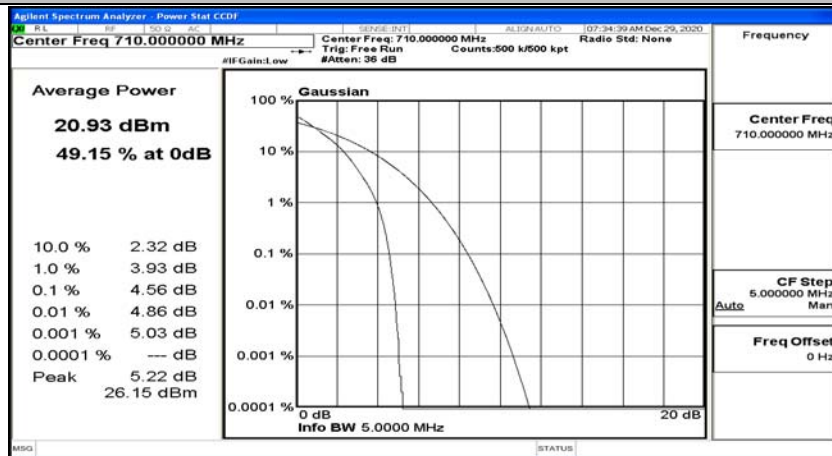
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.06	<13	PASS
	MCH	4.56	<13	PASS
	HCH	4.46	<13	PASS
16QAM	LCH	5.91	<13	PASS
	MCH	5.44	<13	PASS
	HCH	5.21	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.65	<13	PASS
	MCH	4.64	<13	PASS
	HCH	4.68	<13	PASS
16QAM	LCH	5.59	<13	PASS
	MCH	5.55	<13	PASS
	HCH	5.59	<13	PASS

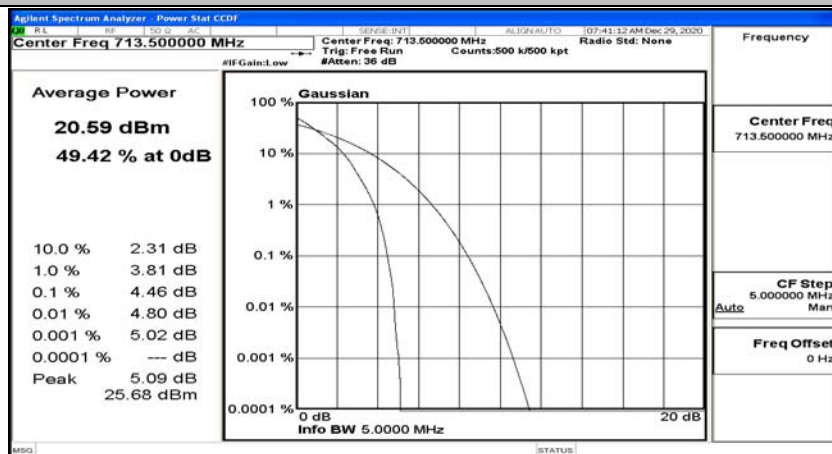
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



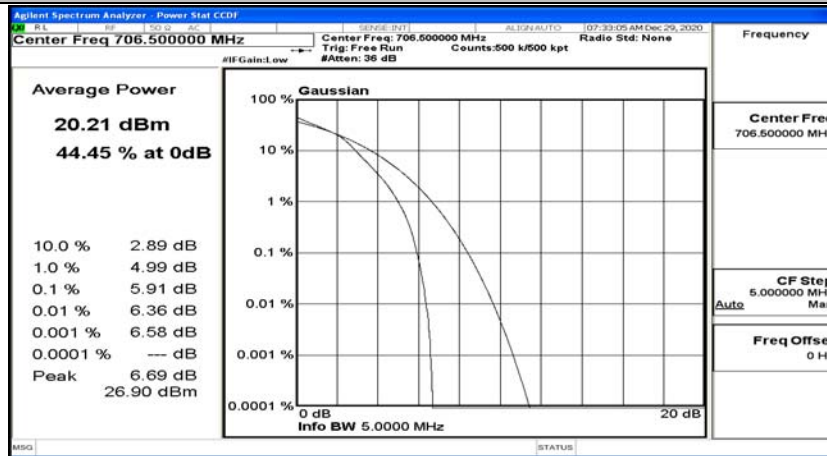
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



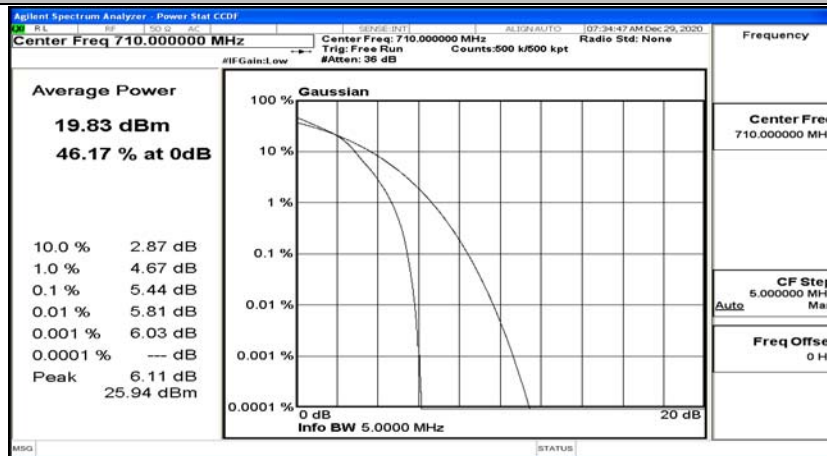
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



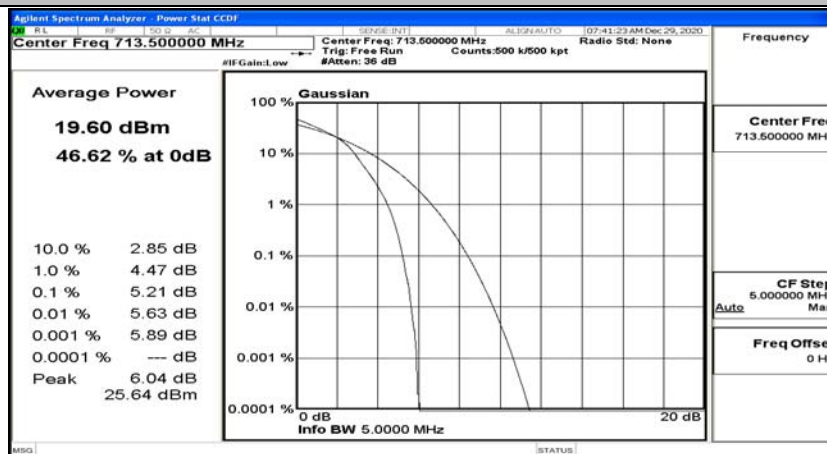
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



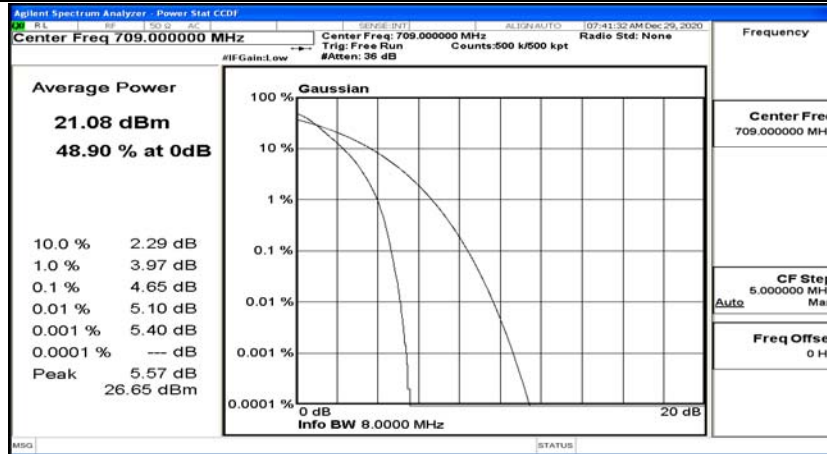
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



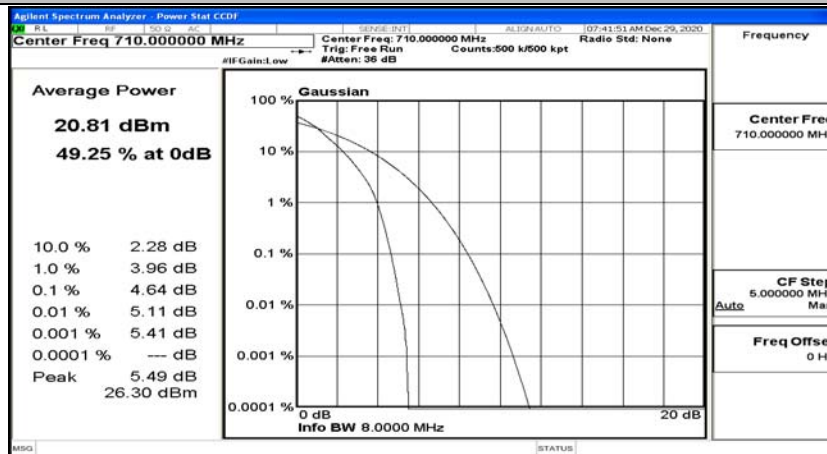
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



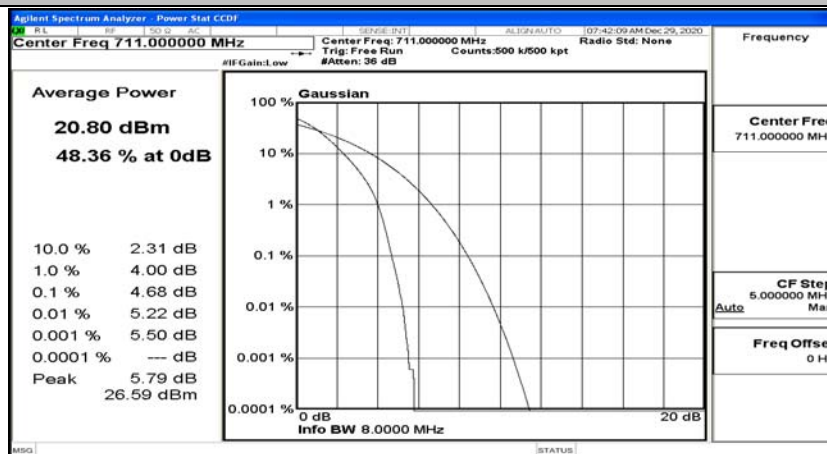
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



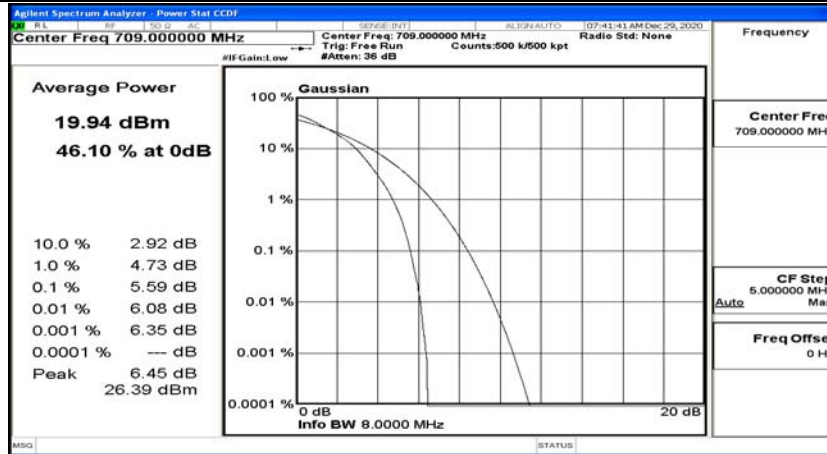
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



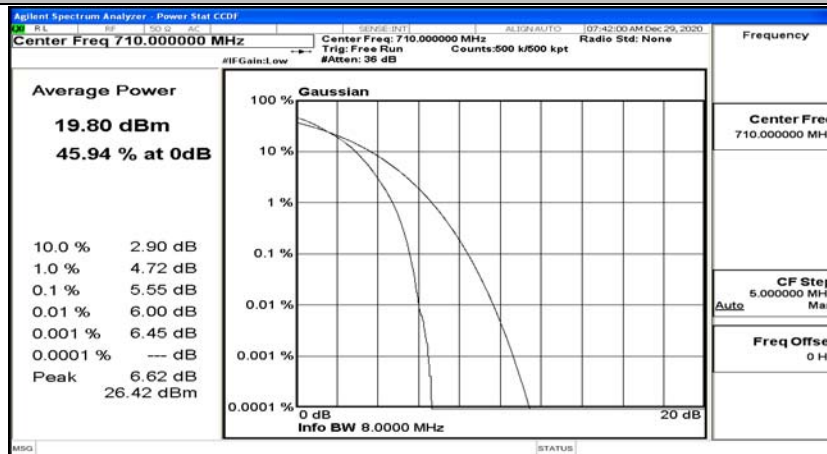
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



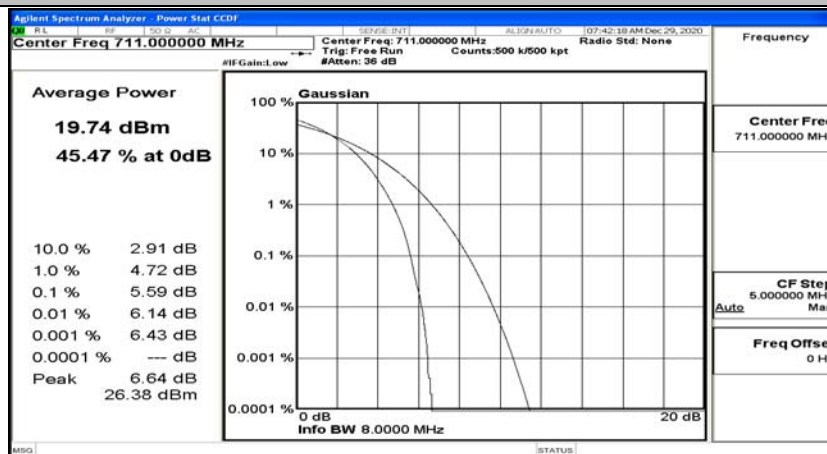
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM



## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM



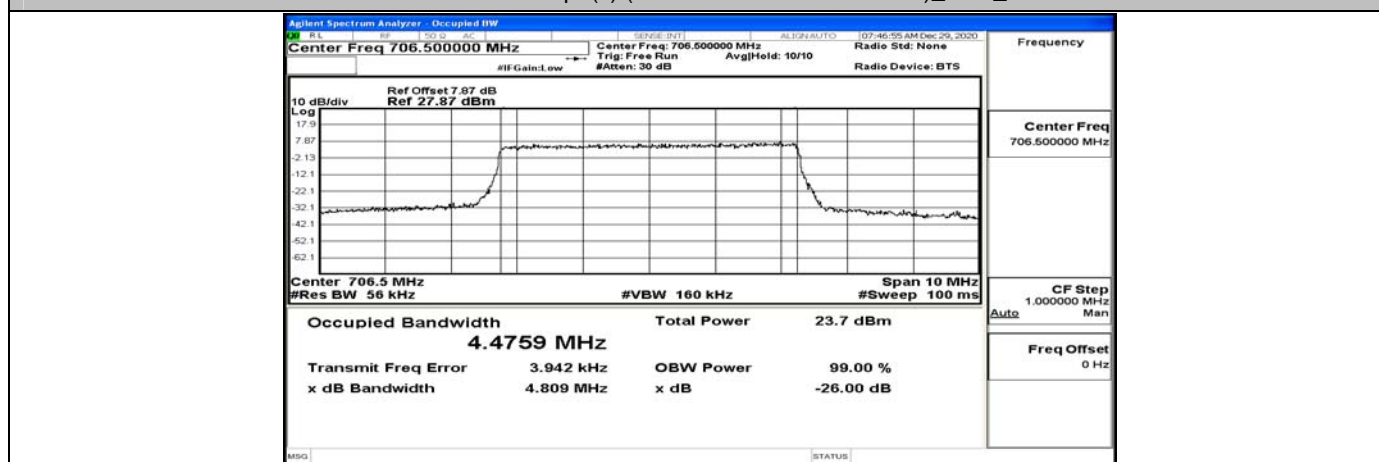


### F.3 26dB Bandwidth and Occupied Bandwidth

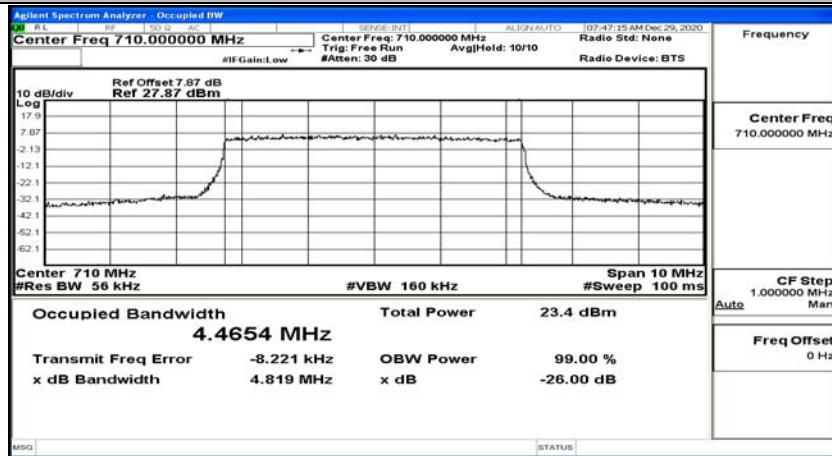
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4759	4.809	PASS
	MCH	4.4654	4.819	PASS
	HCH	4.4845	4.865	PASS
16QAM	LCH	4.4797	4.753	PASS
	MCH	4.4615	4.775	PASS
	HCH	4.4834	4.819	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.8826	9.381	PASS
	MCH	8.8745	9.361	PASS
	HCH	8.9071	9.377	PASS
16QAM	LCH	8.8760	9.312	PASS
	MCH	8.8819	9.356	PASS
	HCH	8.8855	9.392	PASS

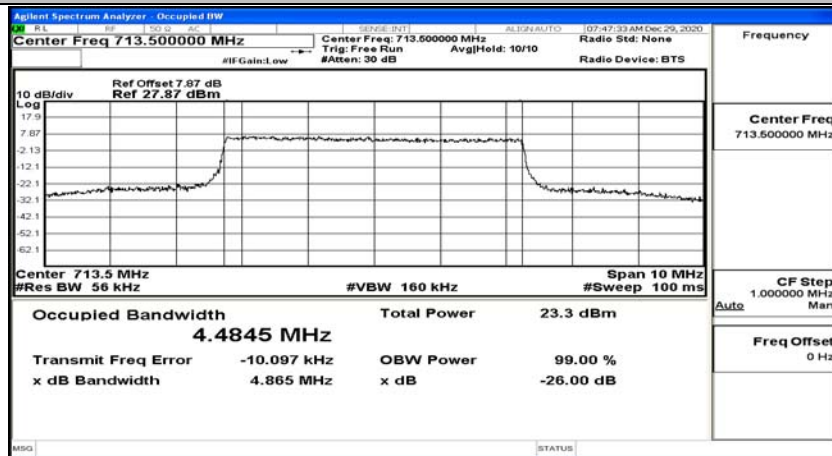
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



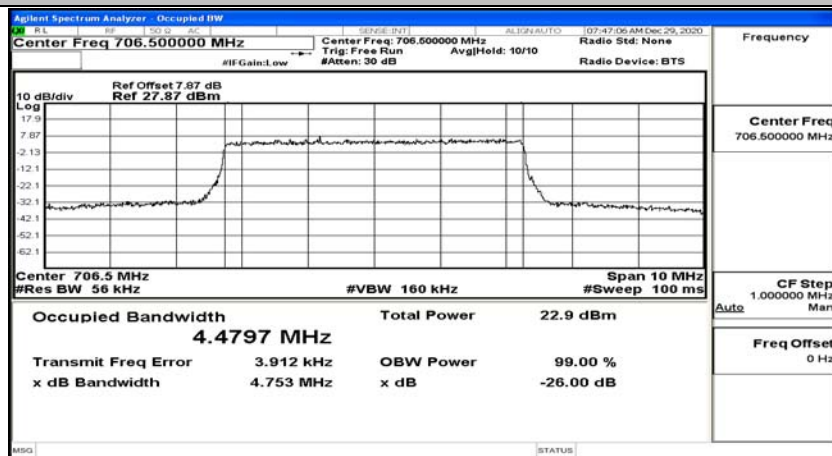
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



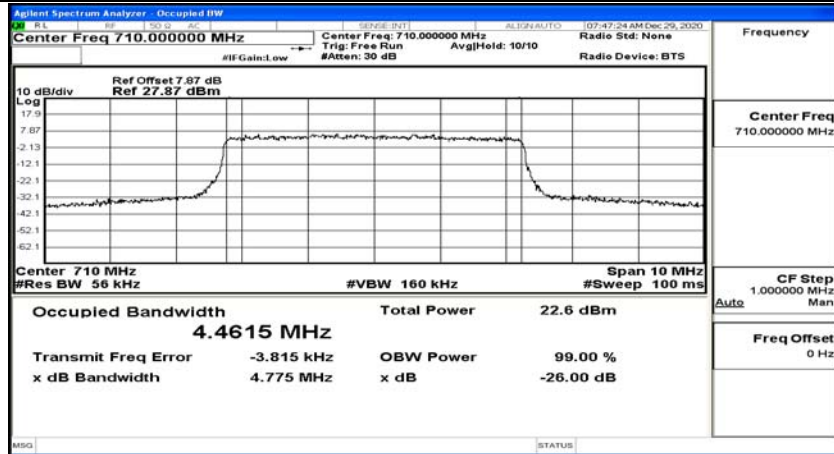
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



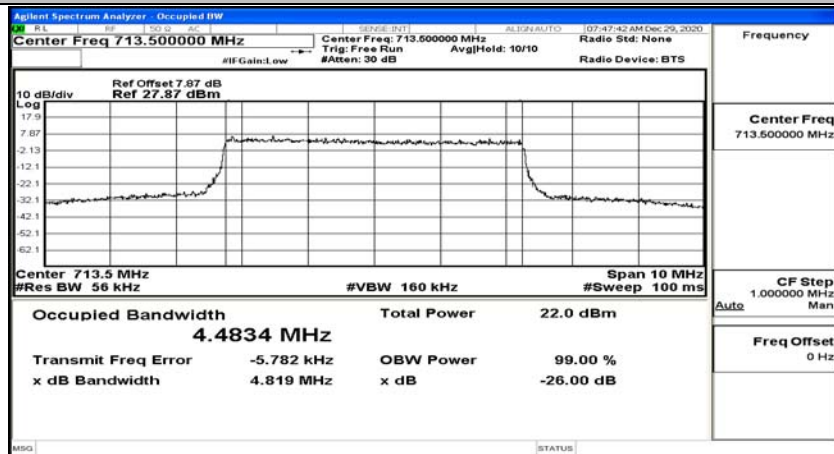
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



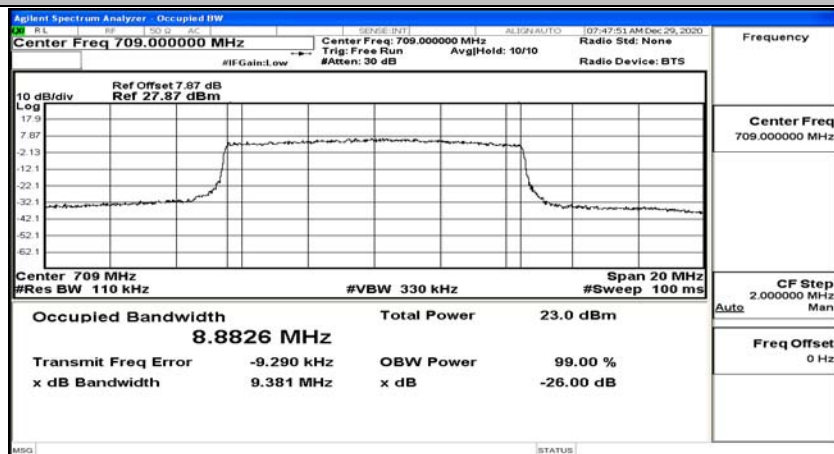
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



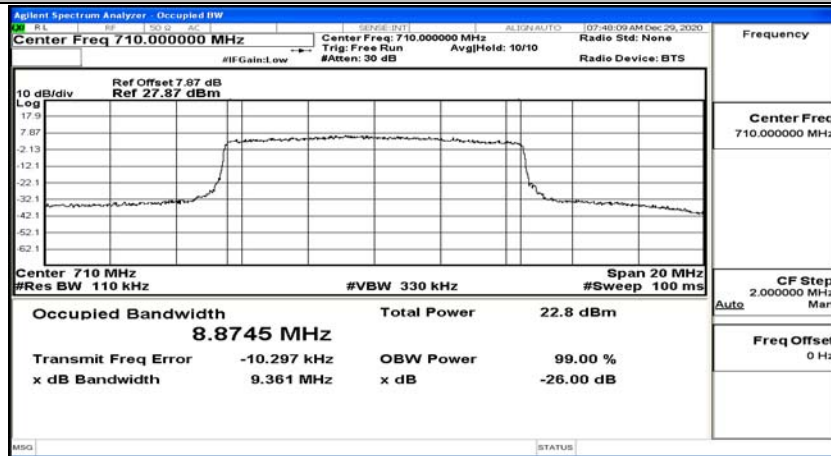
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



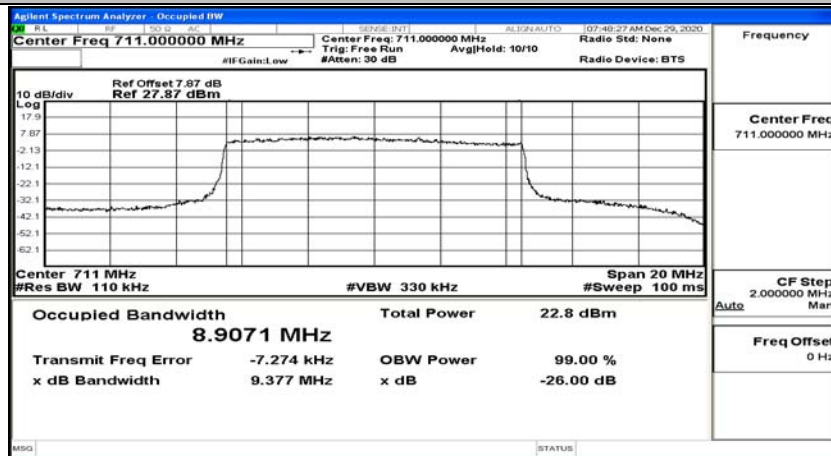
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



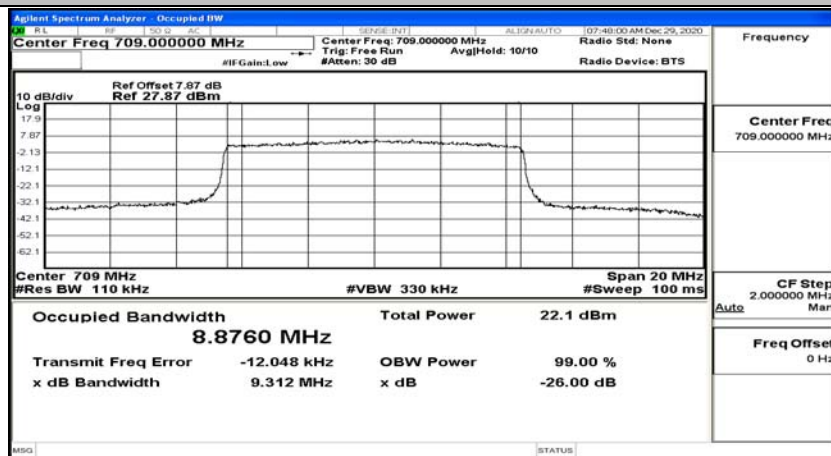
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



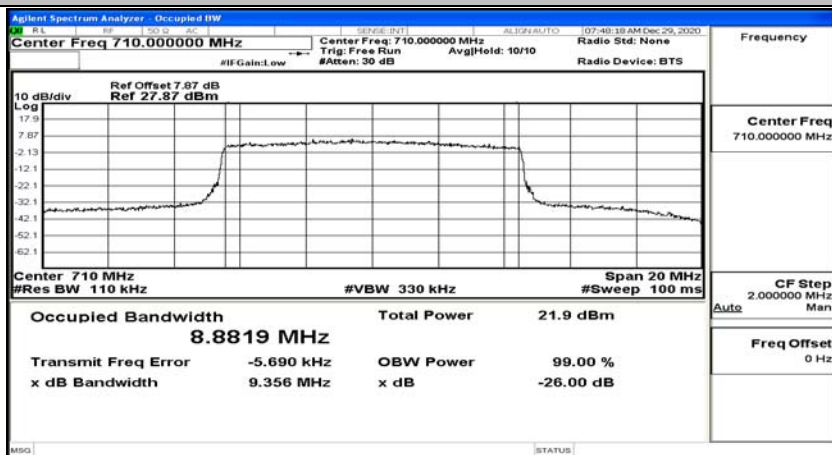
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



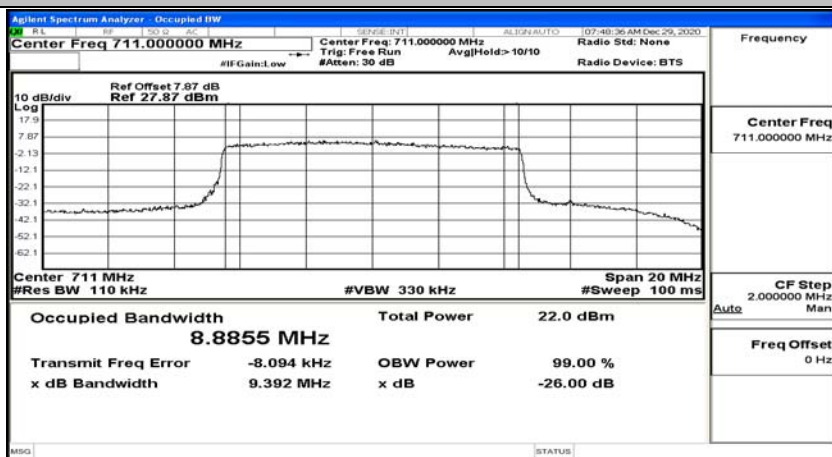
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM

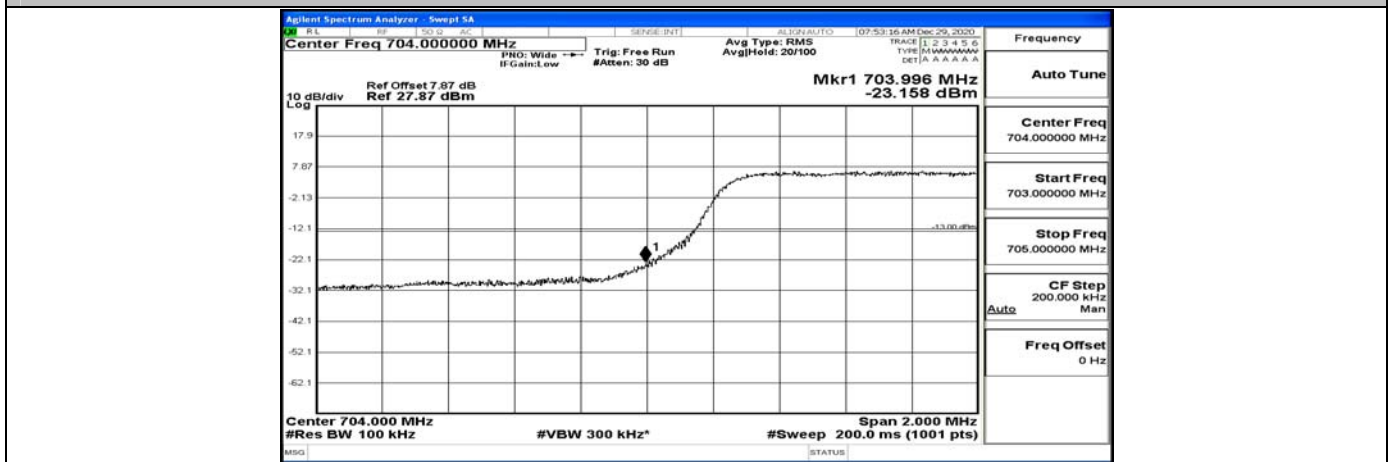


## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM

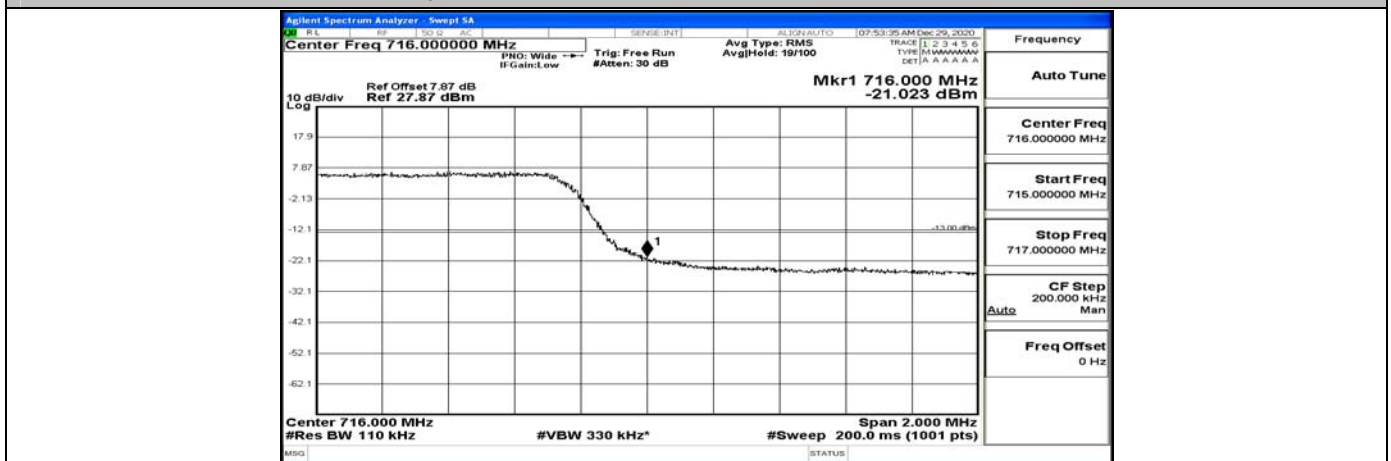


## F.4 Band Edge

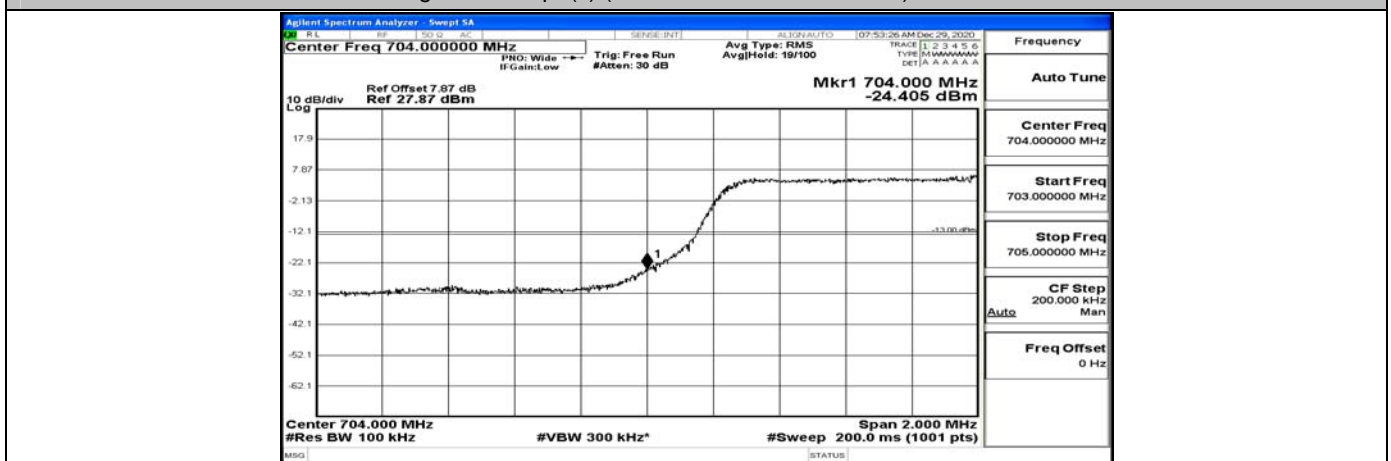
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK

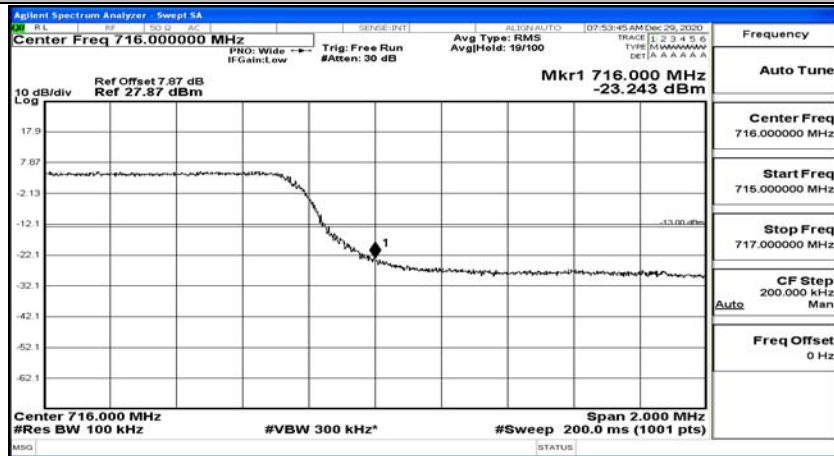


Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM

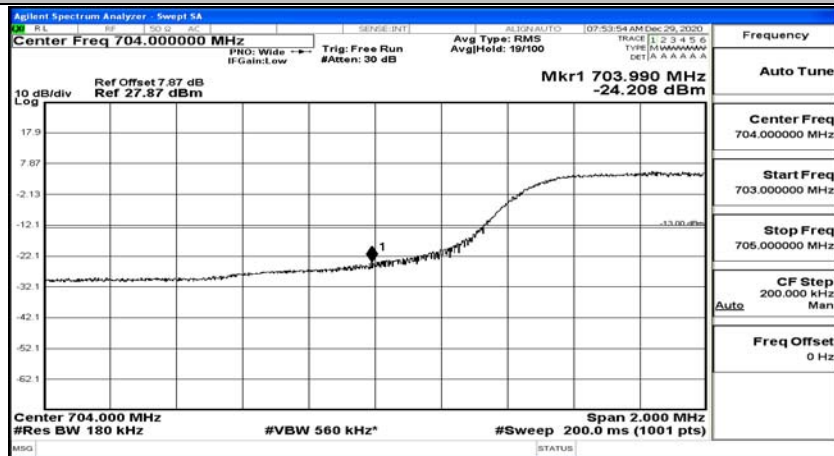




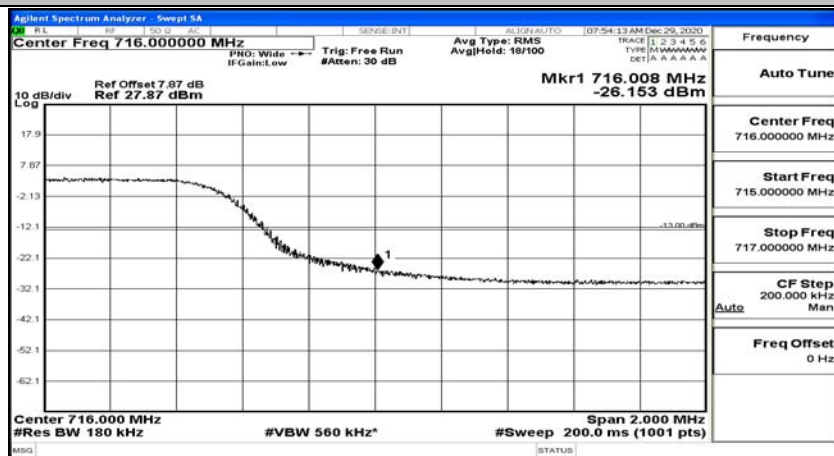
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



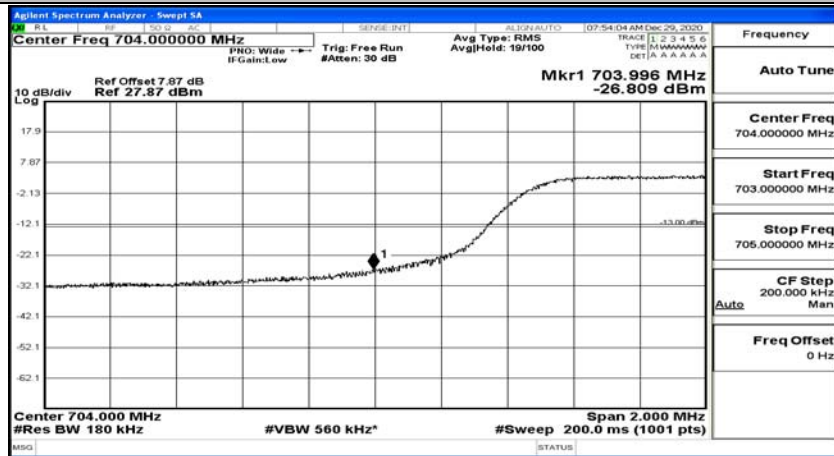
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



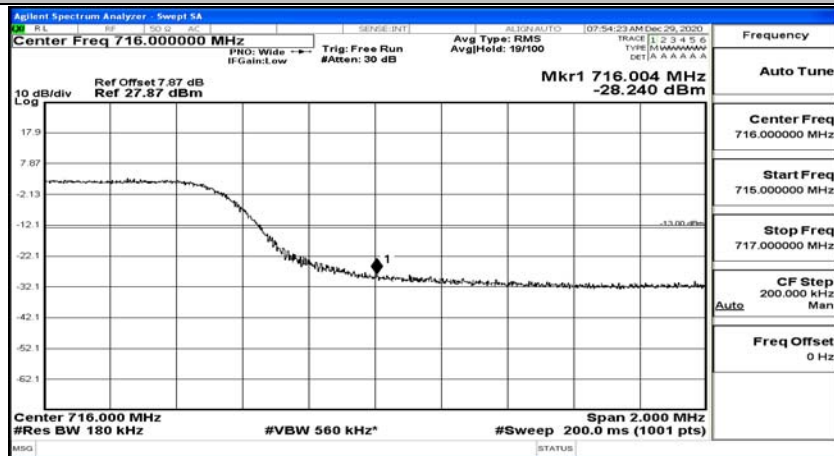
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz) LCH\_16QAM



## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz) HCH\_16QAM





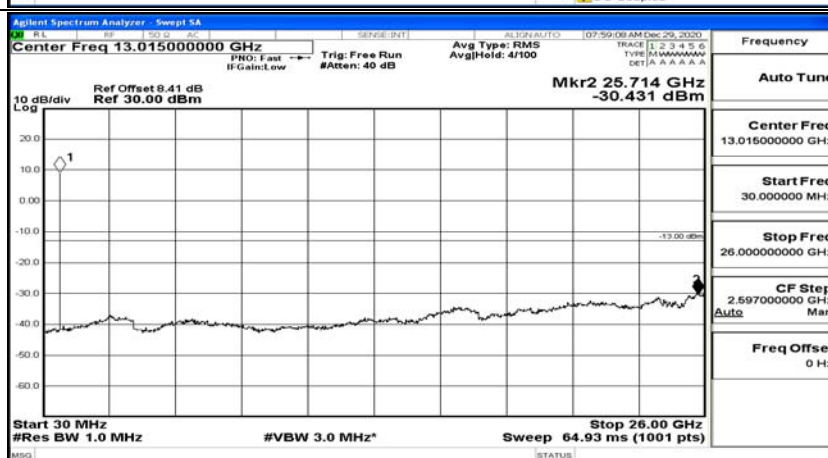
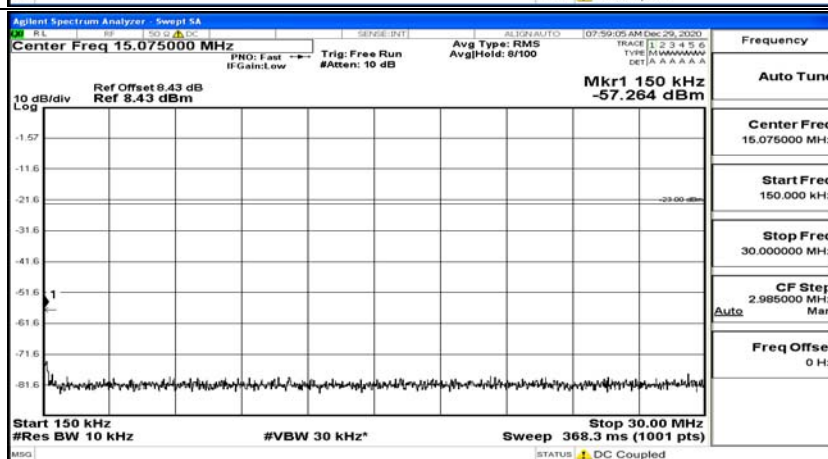
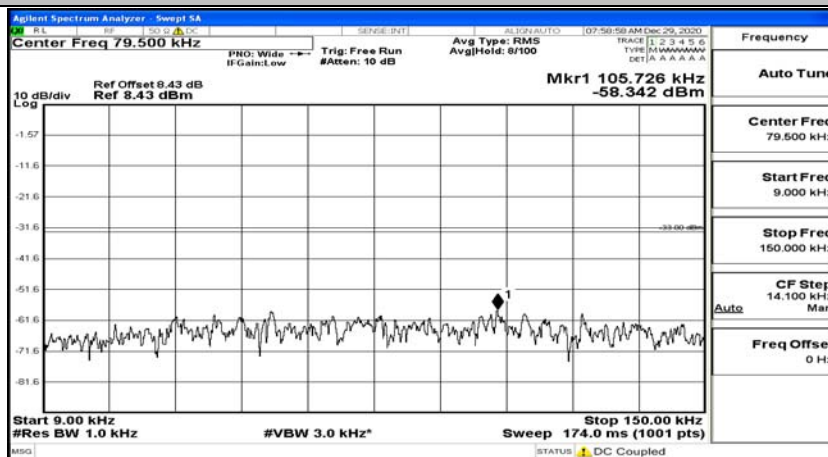
## F.5 Conducted Spurious Emission

### Appendix E: Conducted Spurious Emission

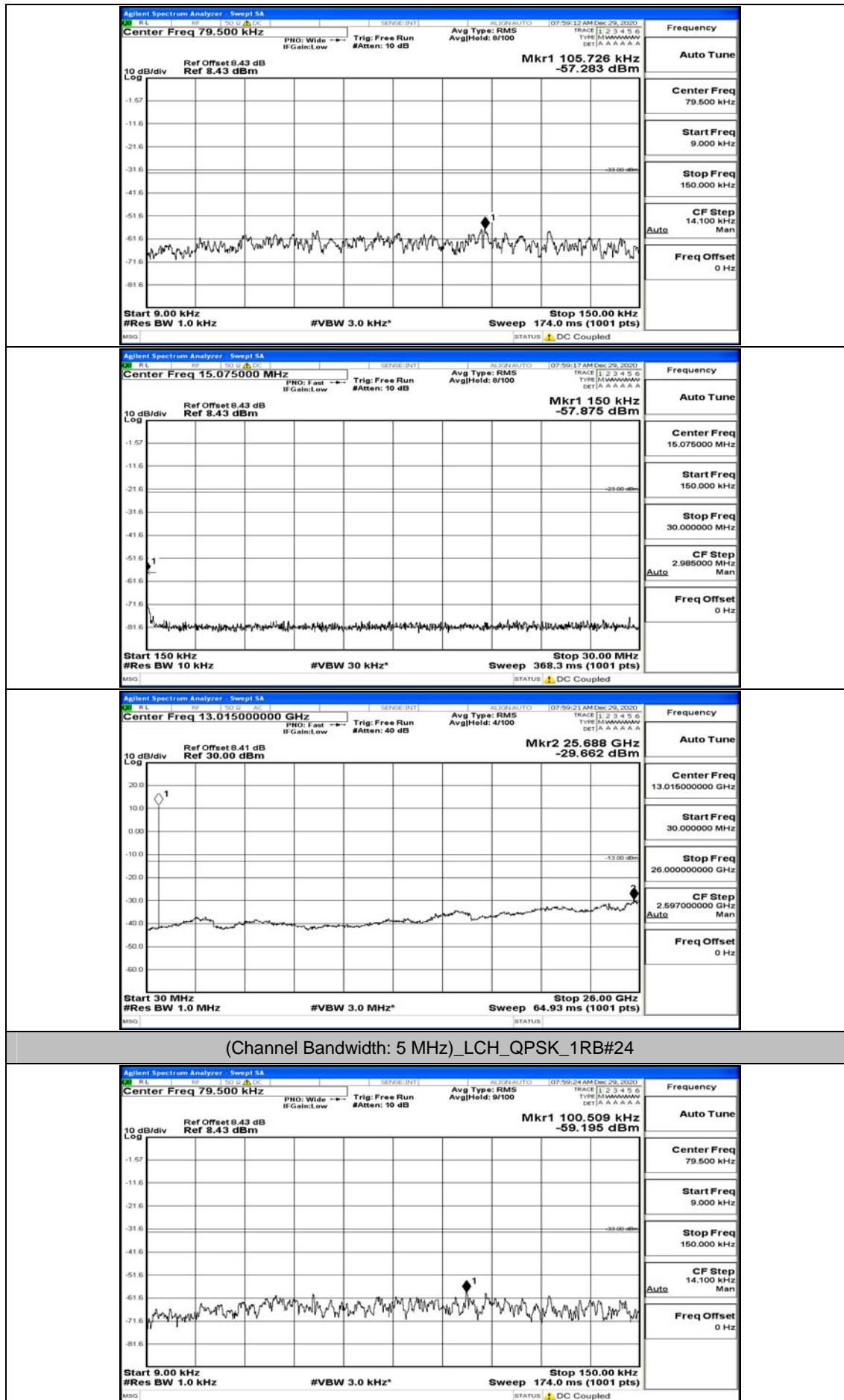
#### Test Graphs

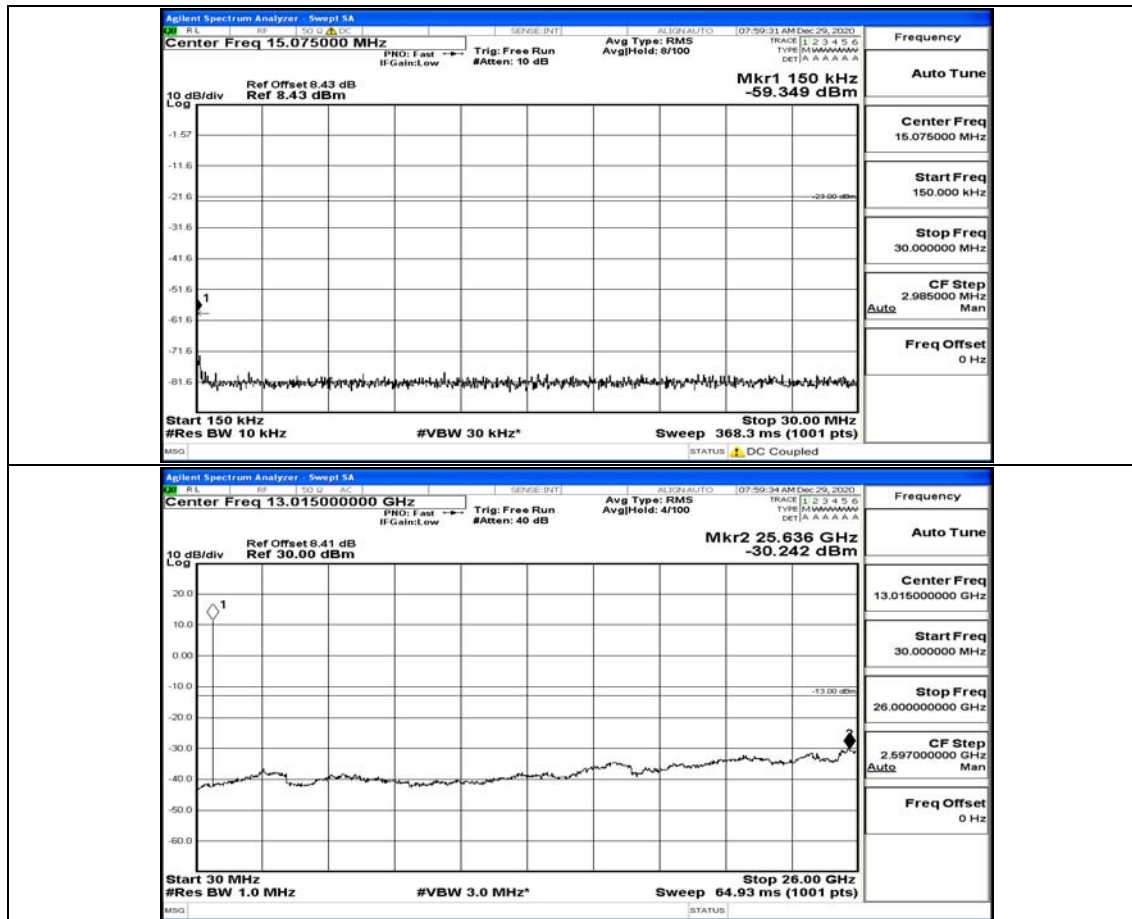
Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#0

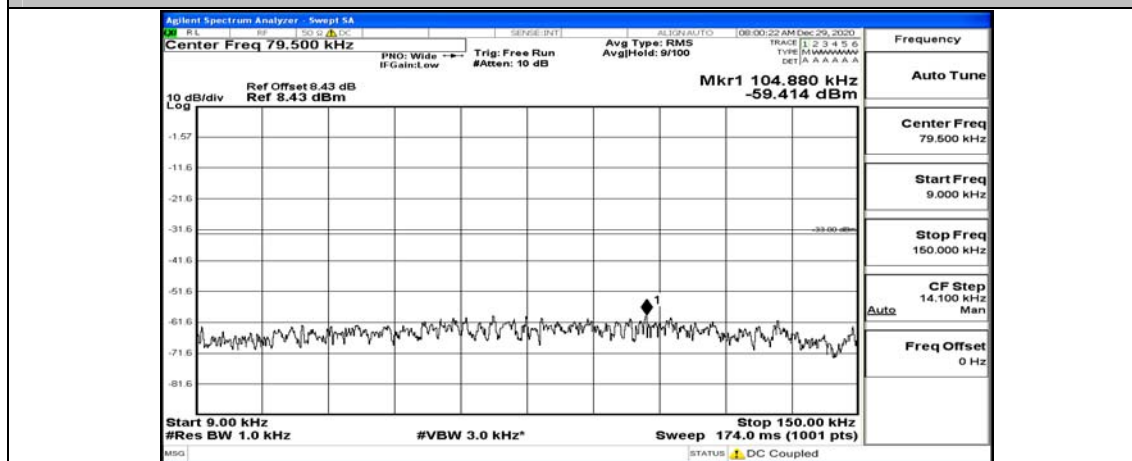


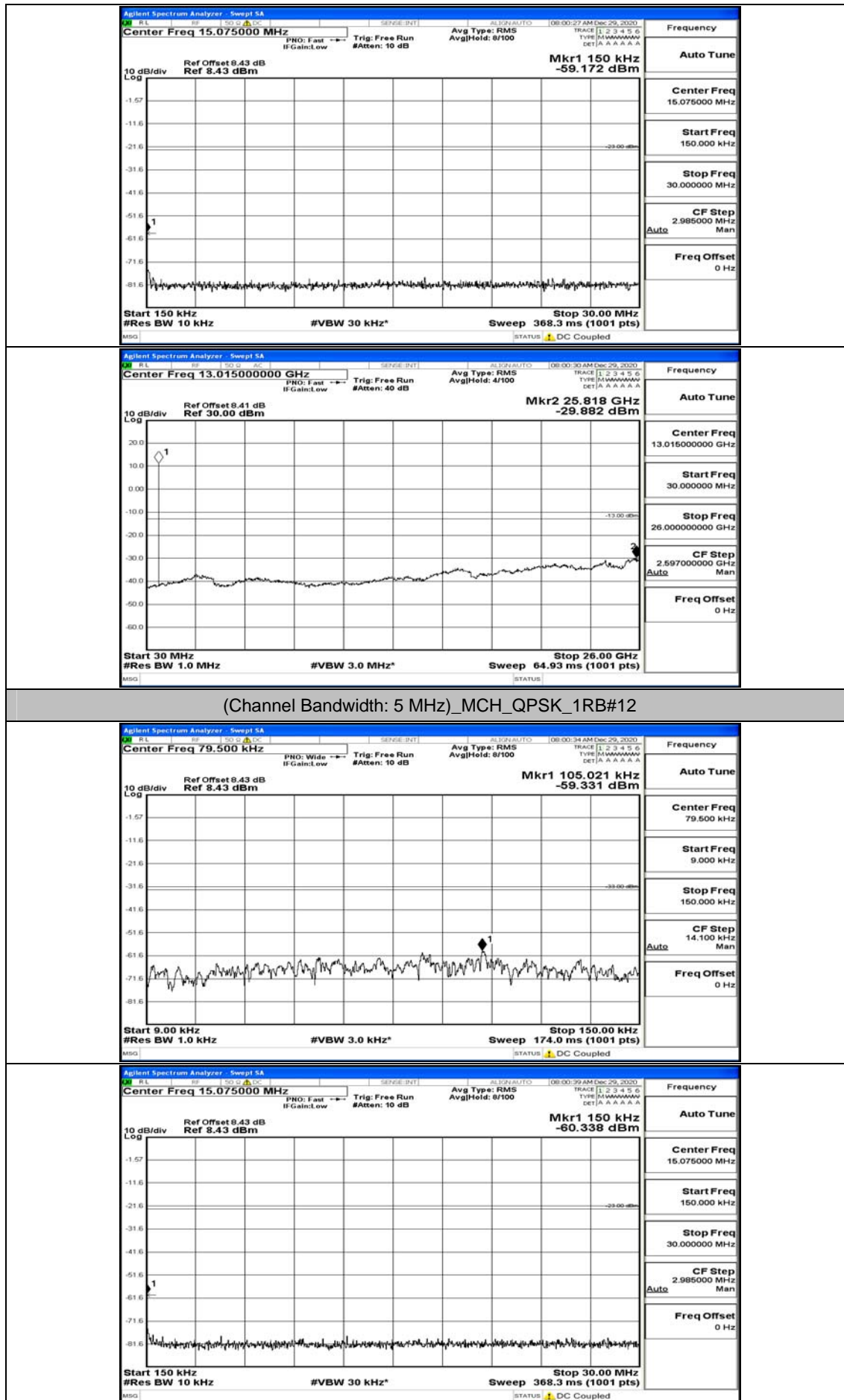
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#12





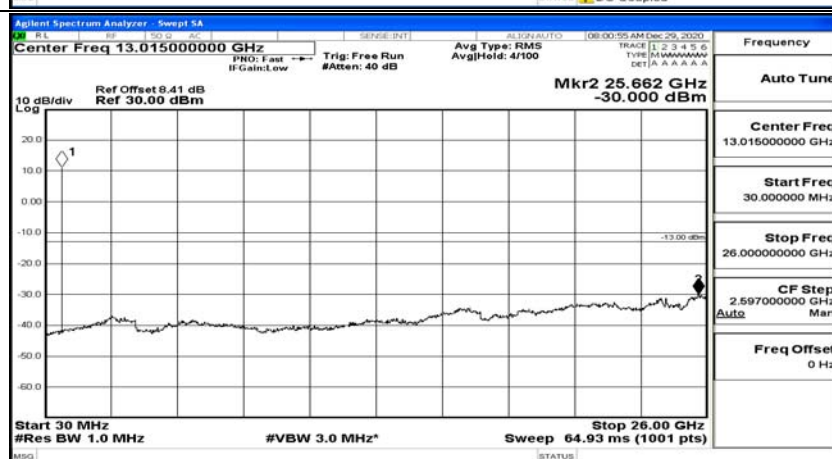
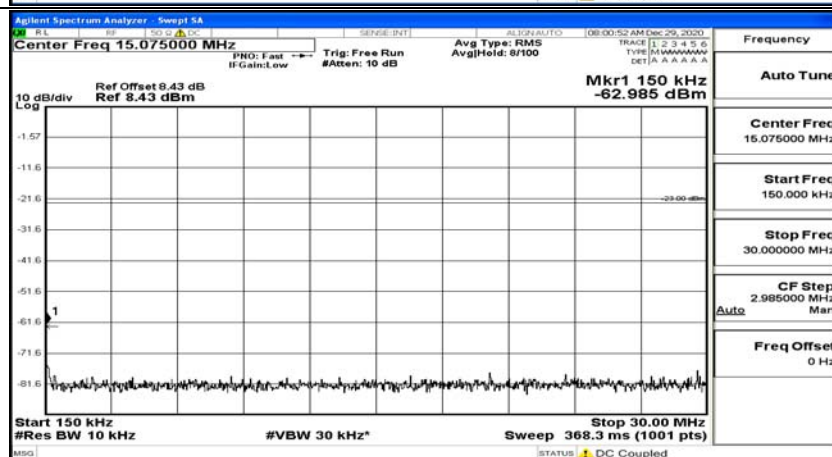
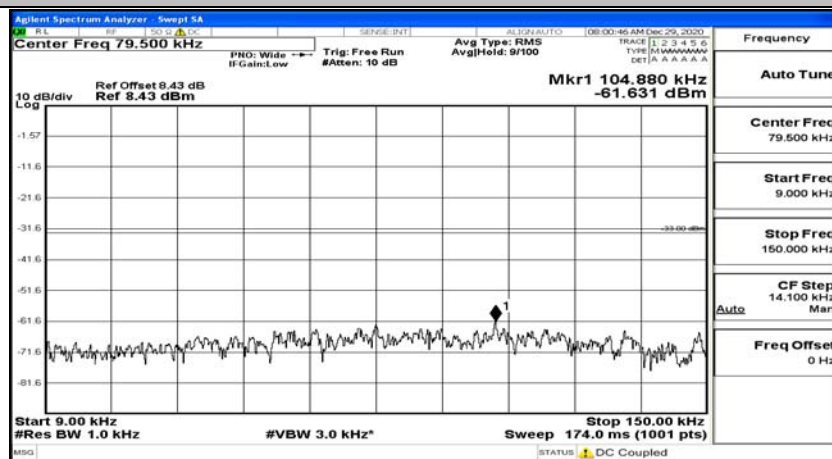
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0





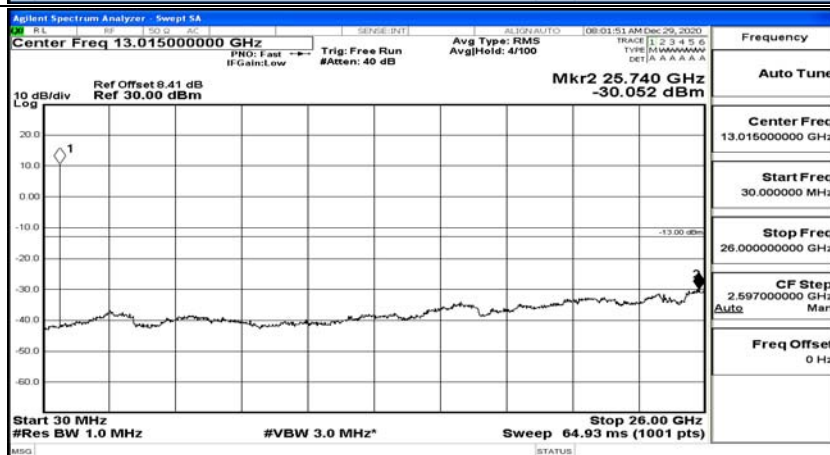
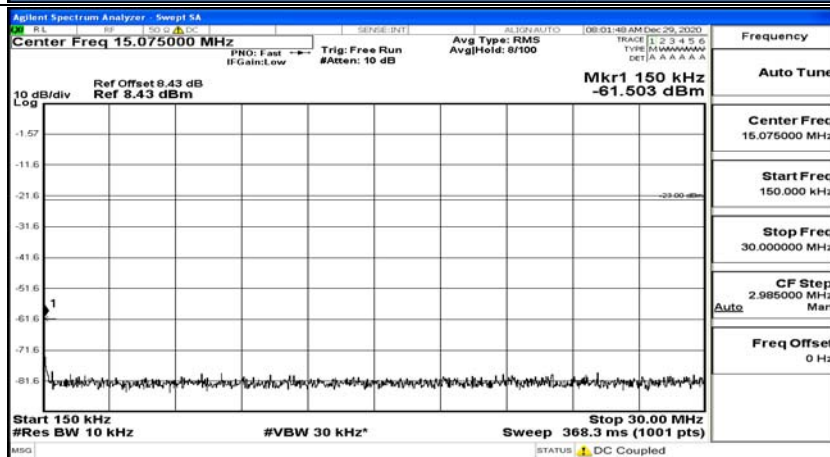
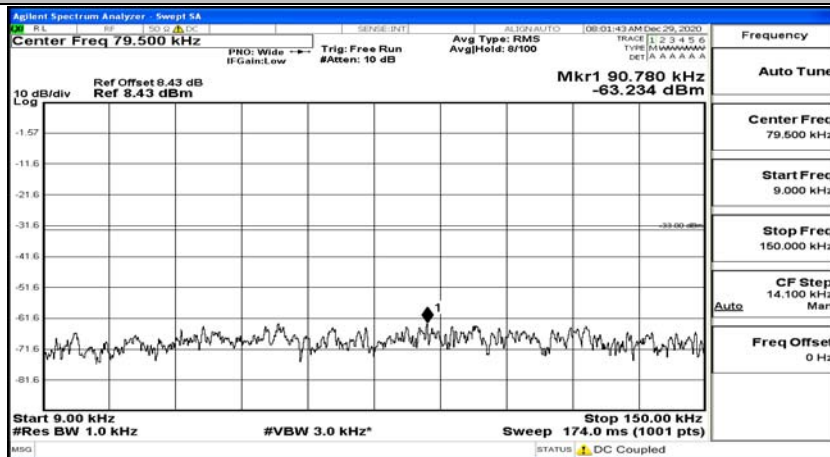


(Channel Bandwidth: 5 MHz) MCH\_QPSK\_1RB#24

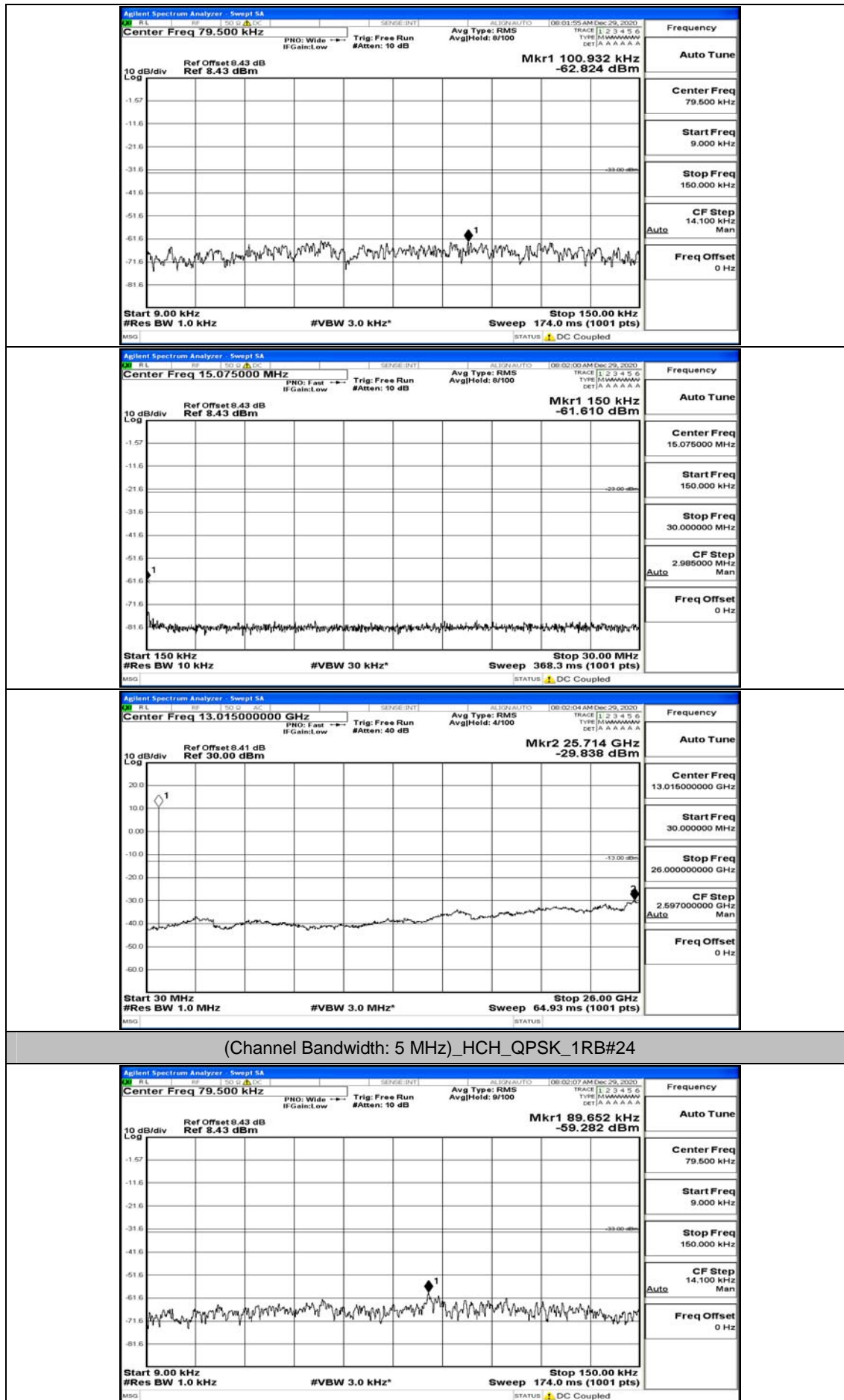


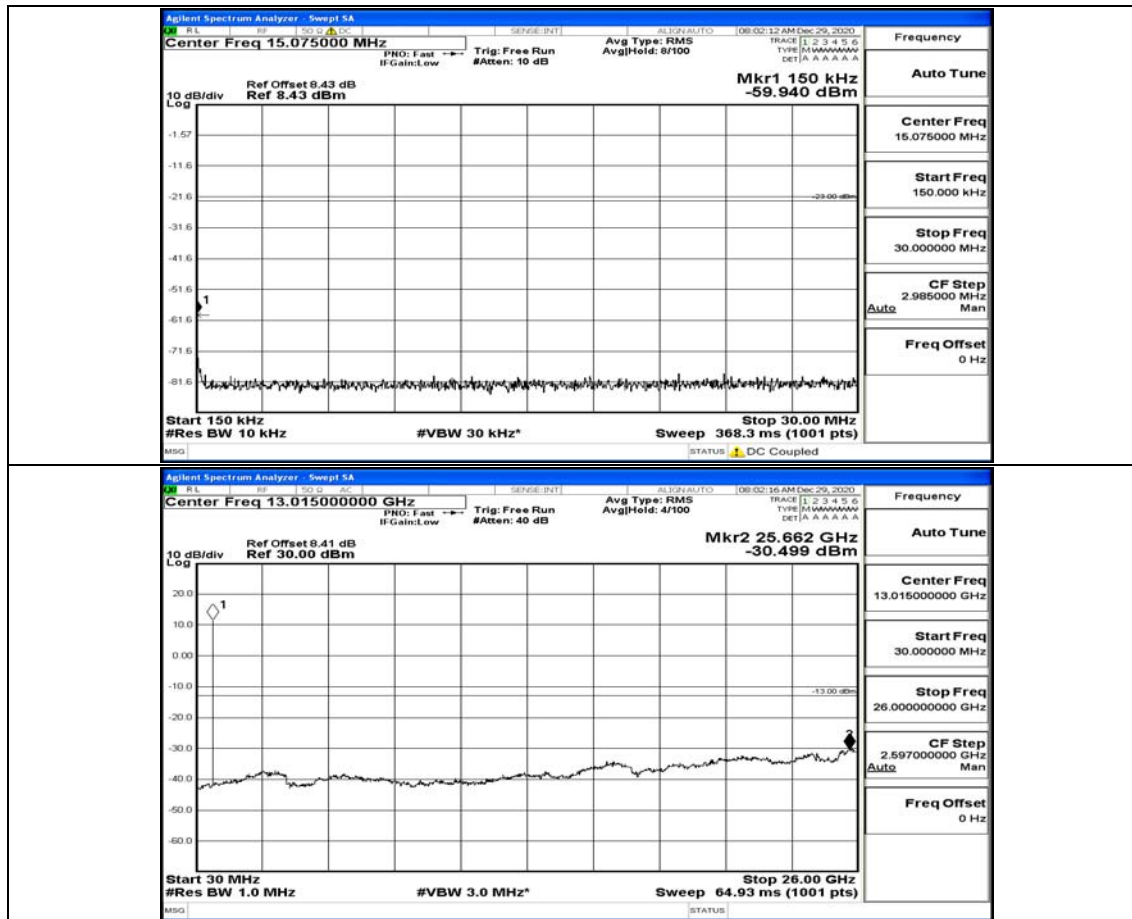


## (Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0

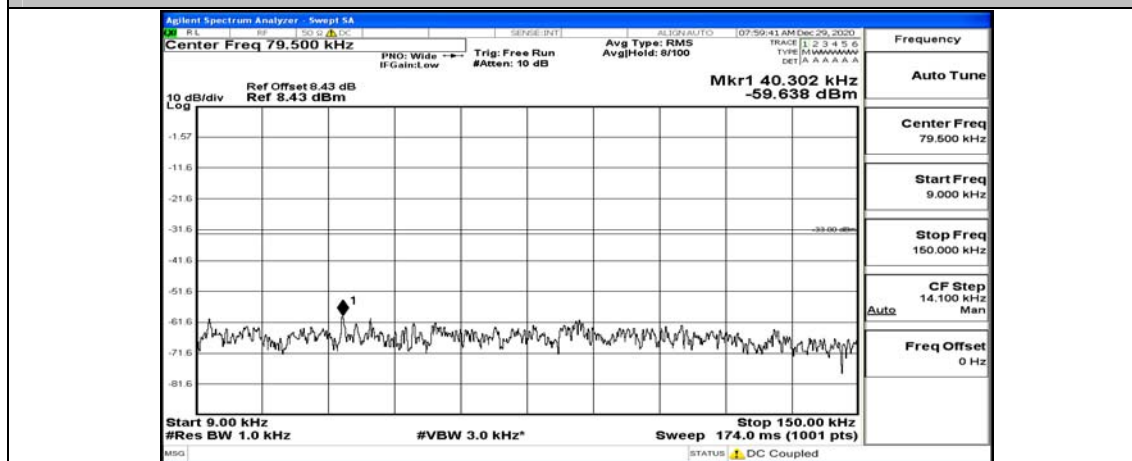


## (Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12

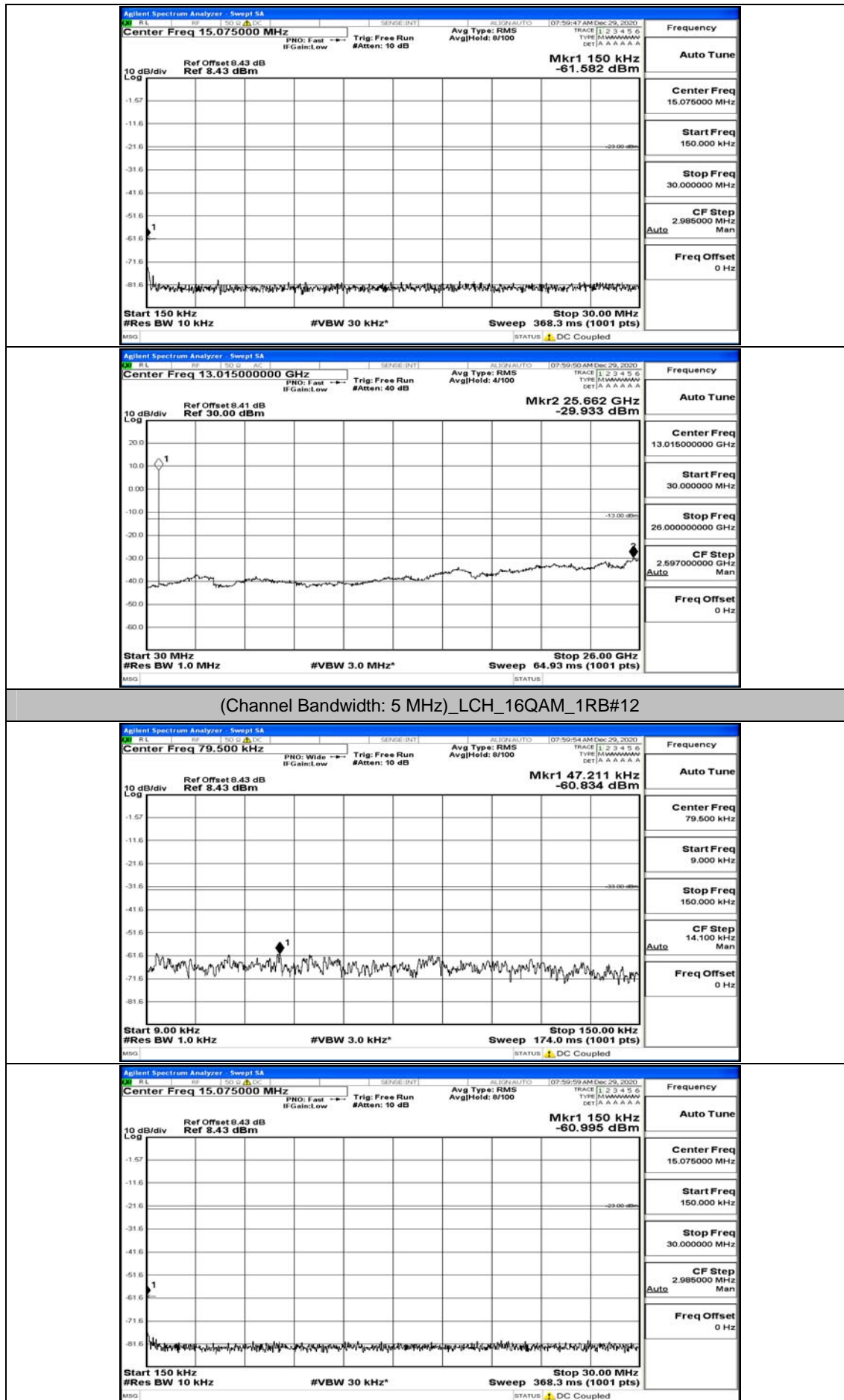


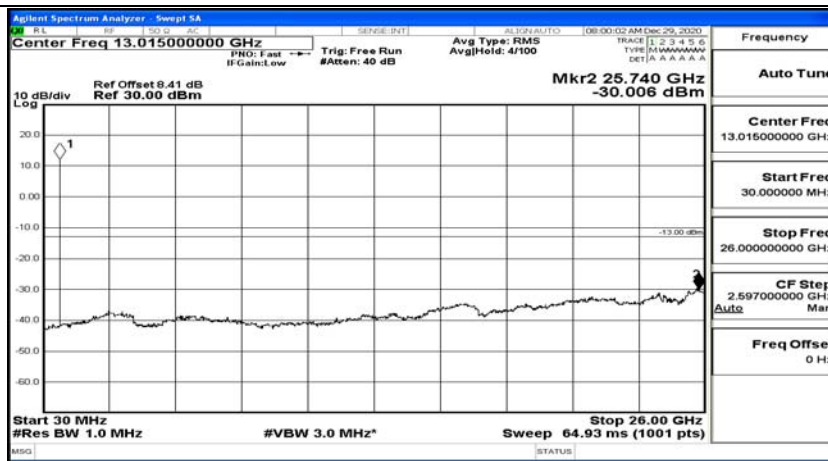


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0

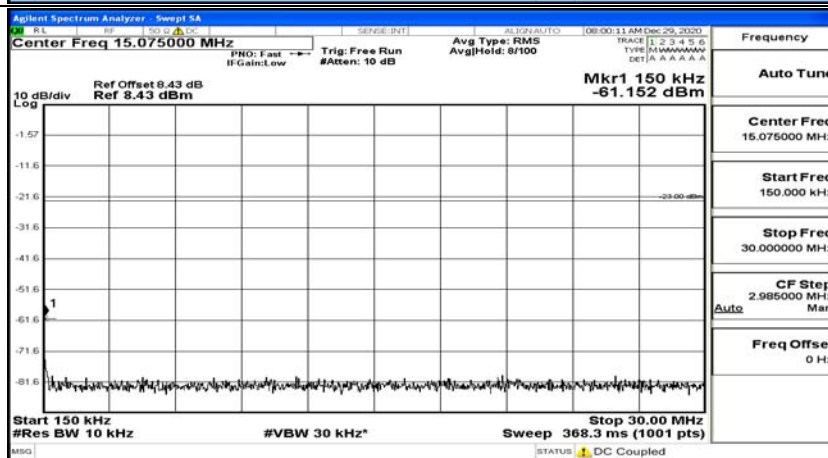
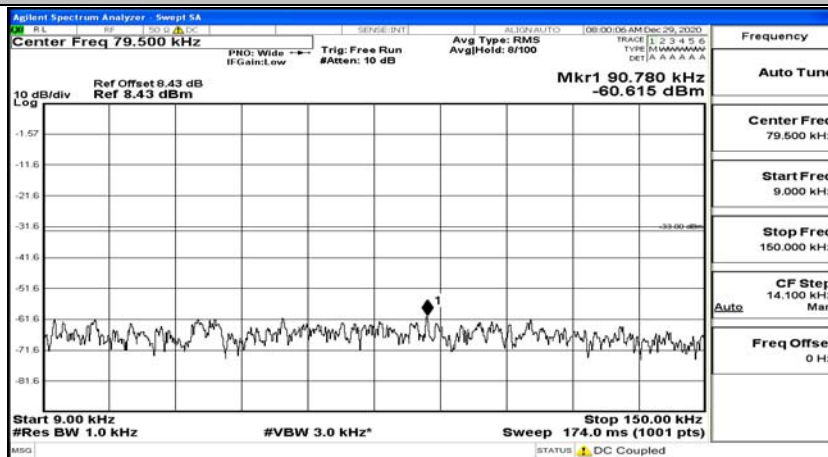




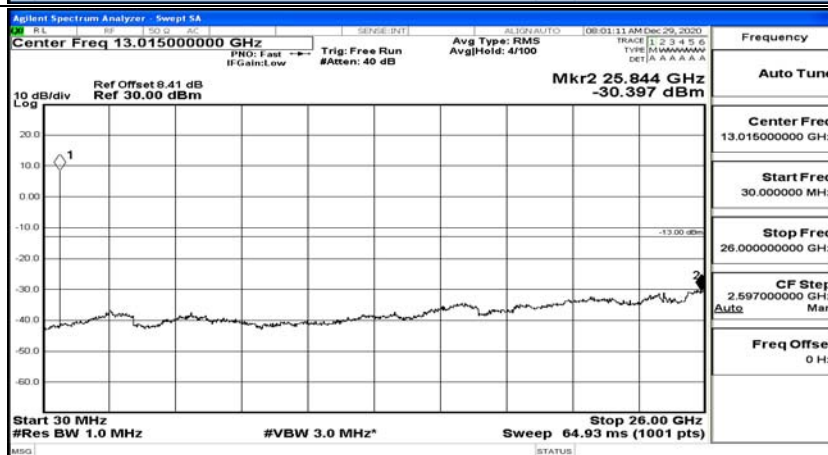
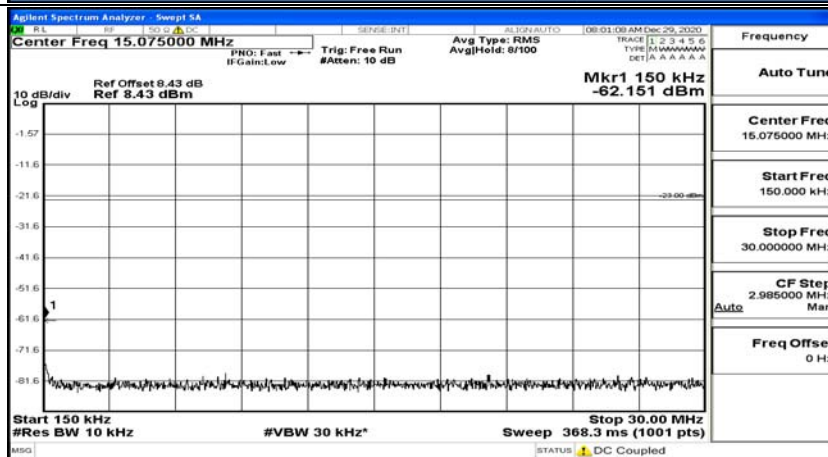
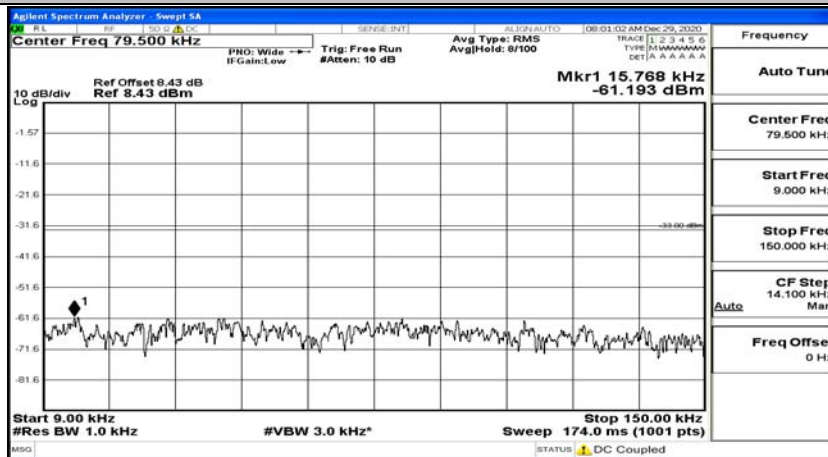




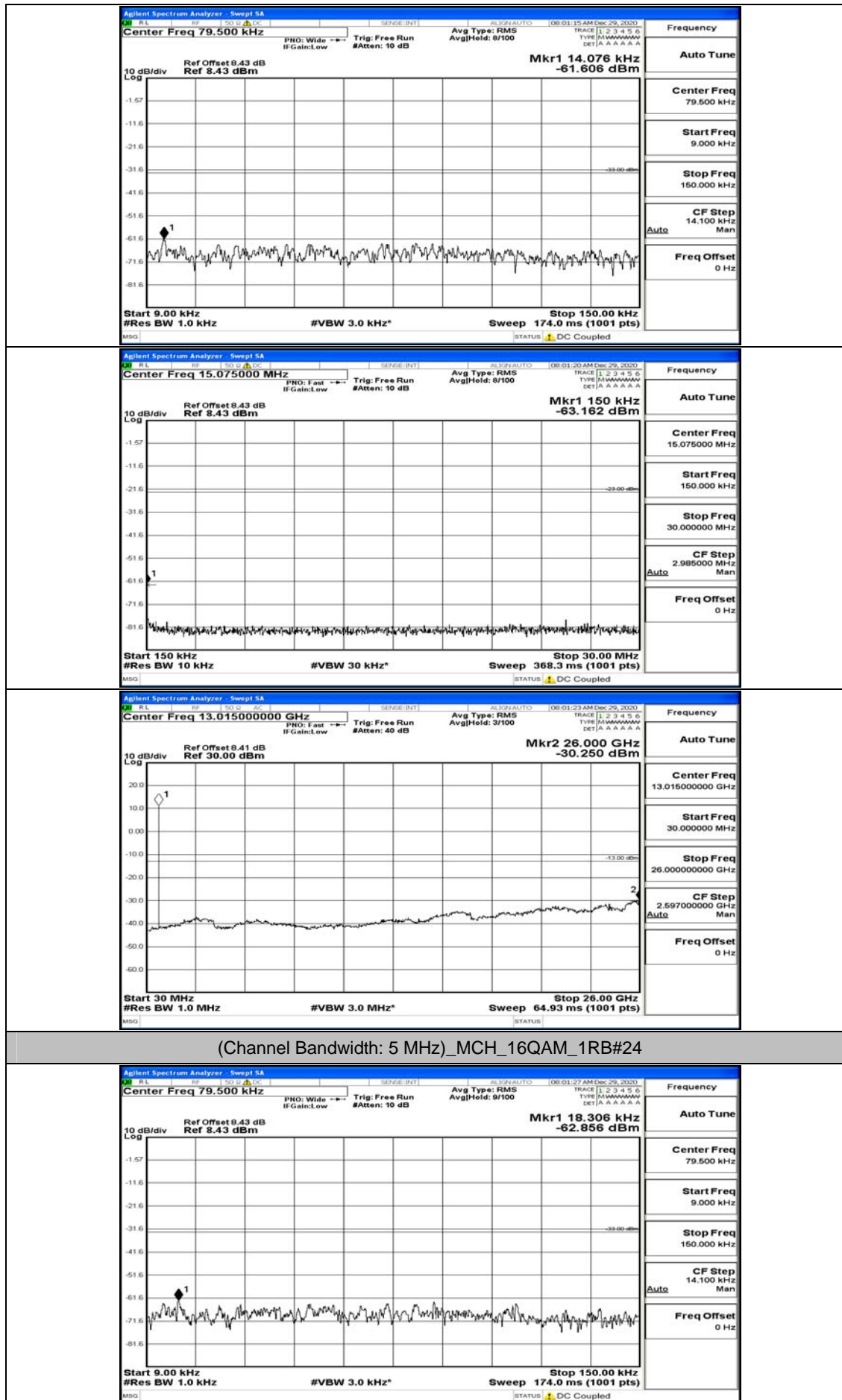
(Channel Bandwidth: 5 MHz) LCH\_16QAM\_1RB#24

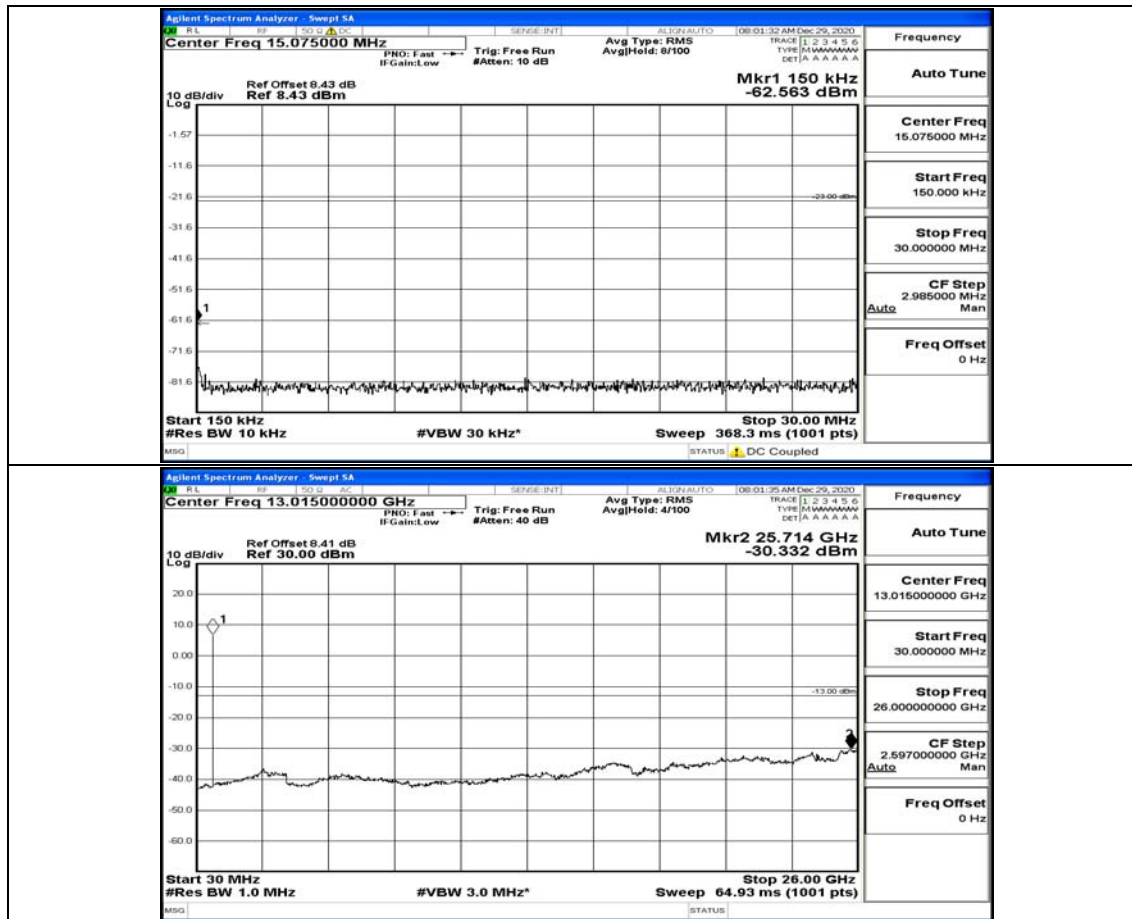


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0

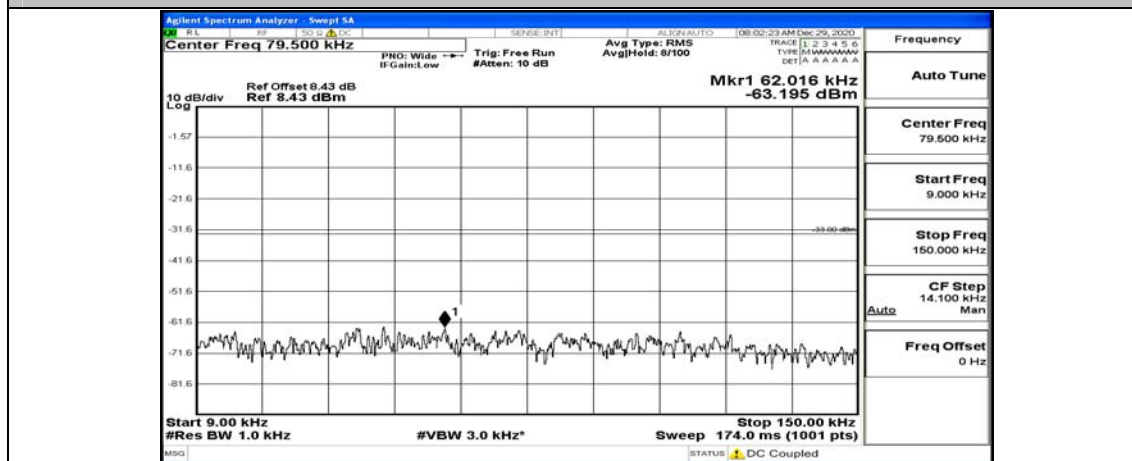


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12

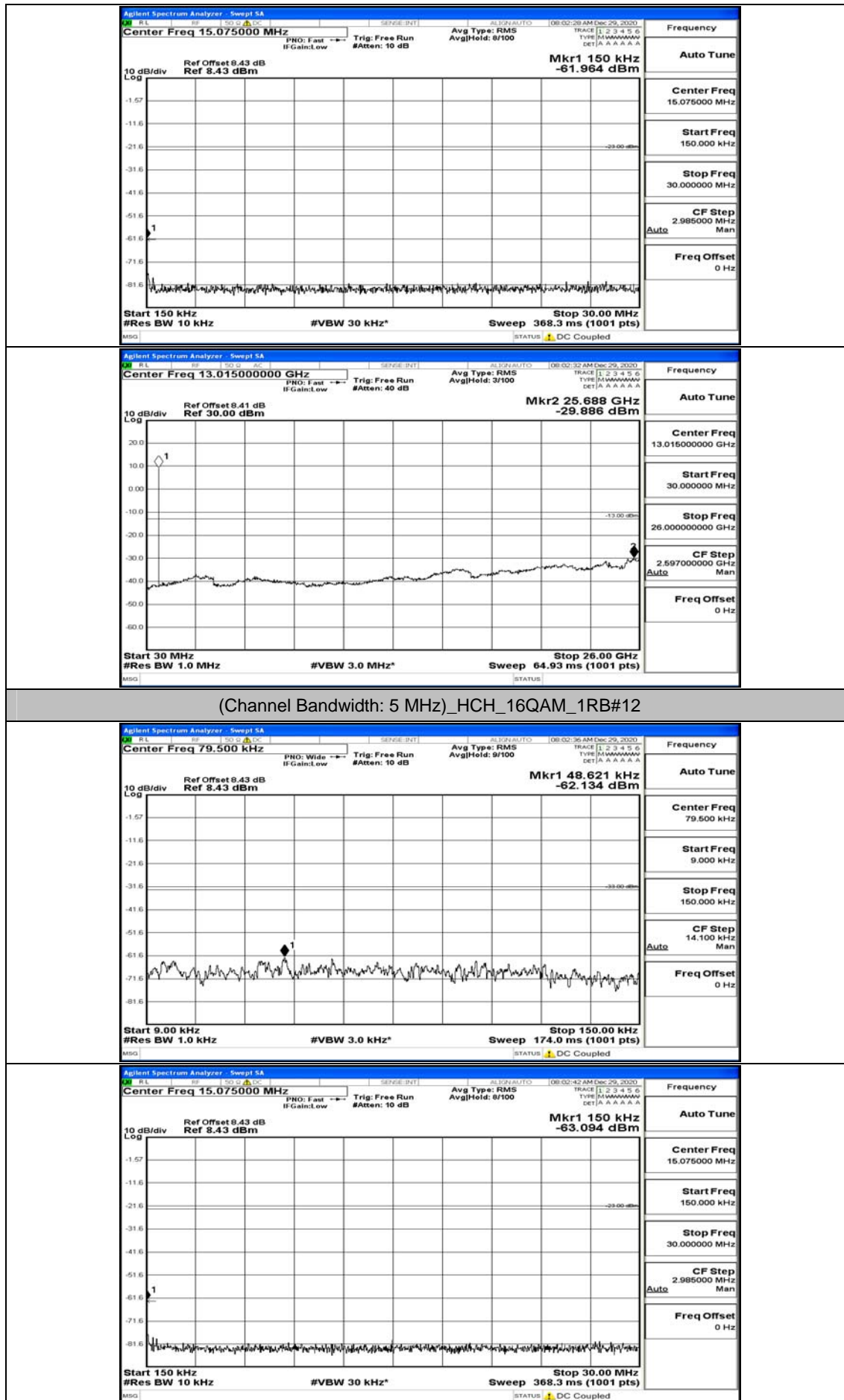




(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0

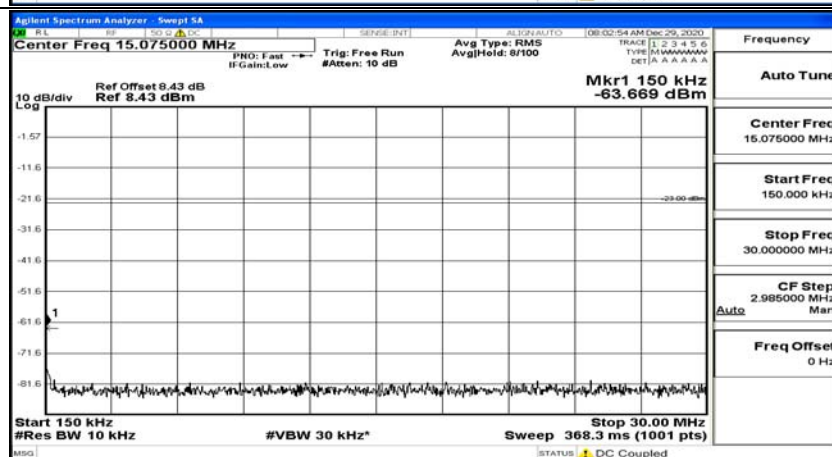
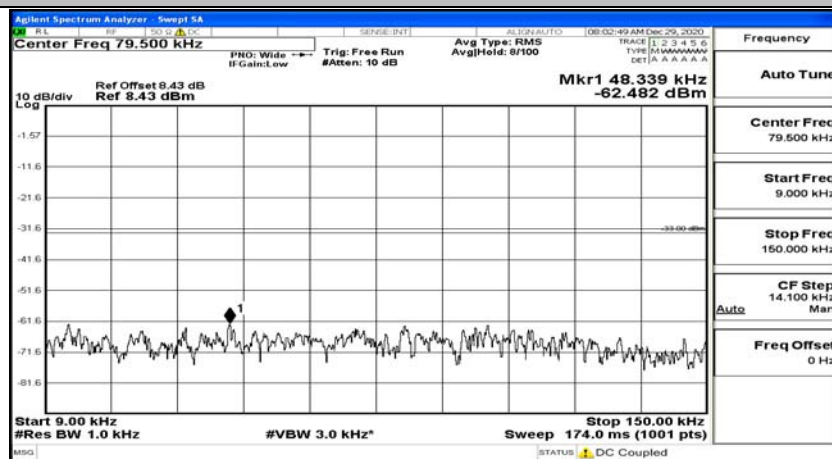




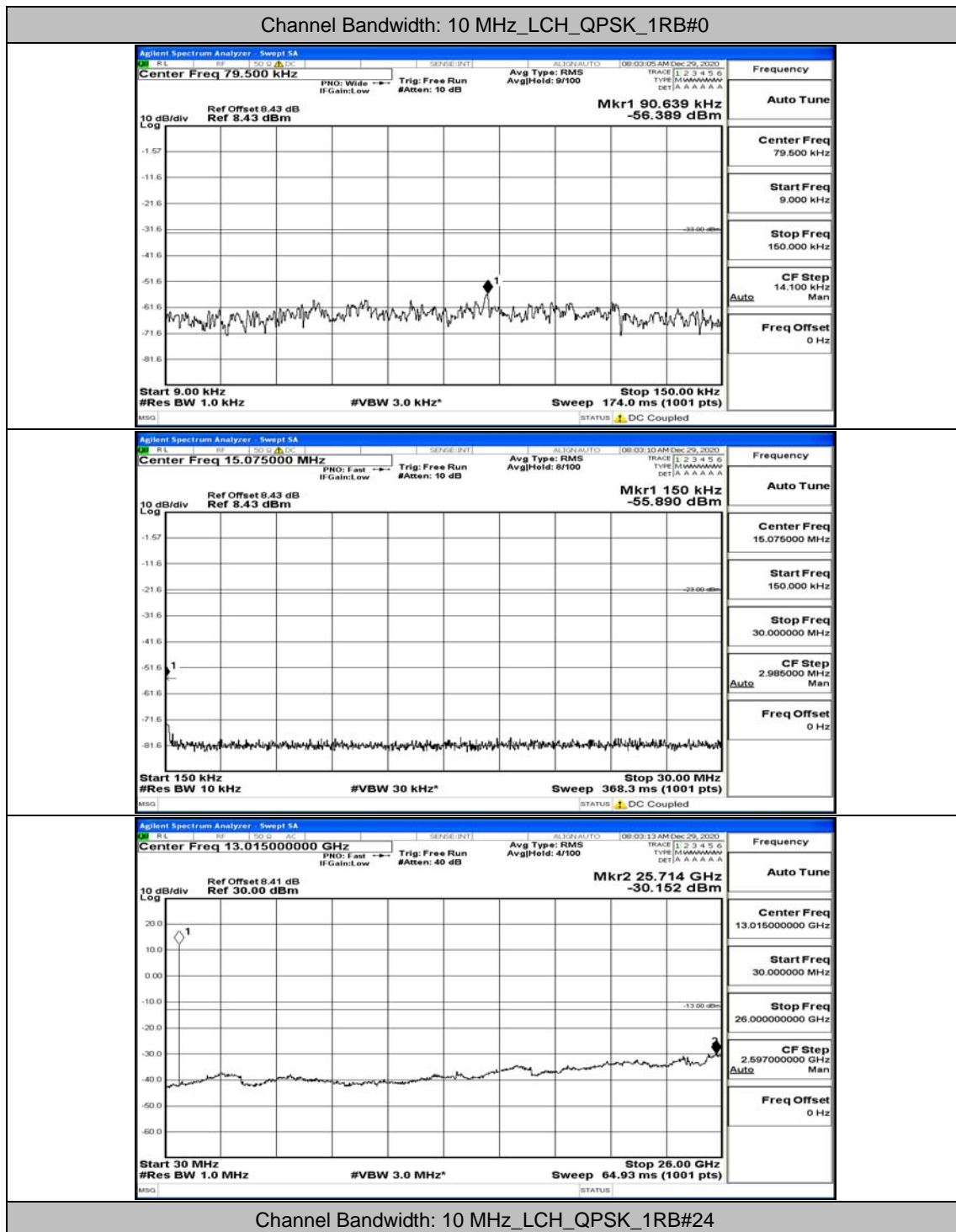




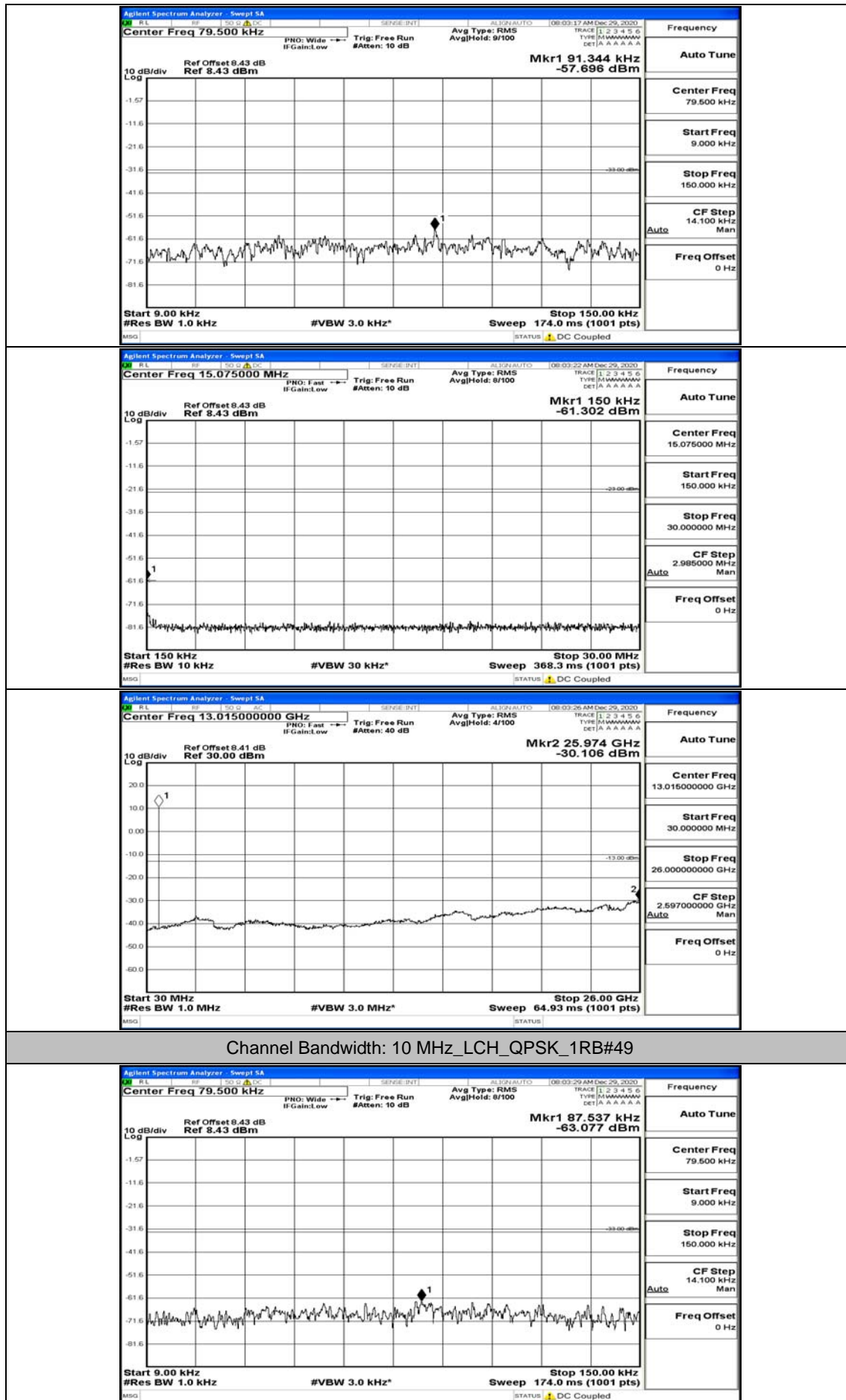
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#24

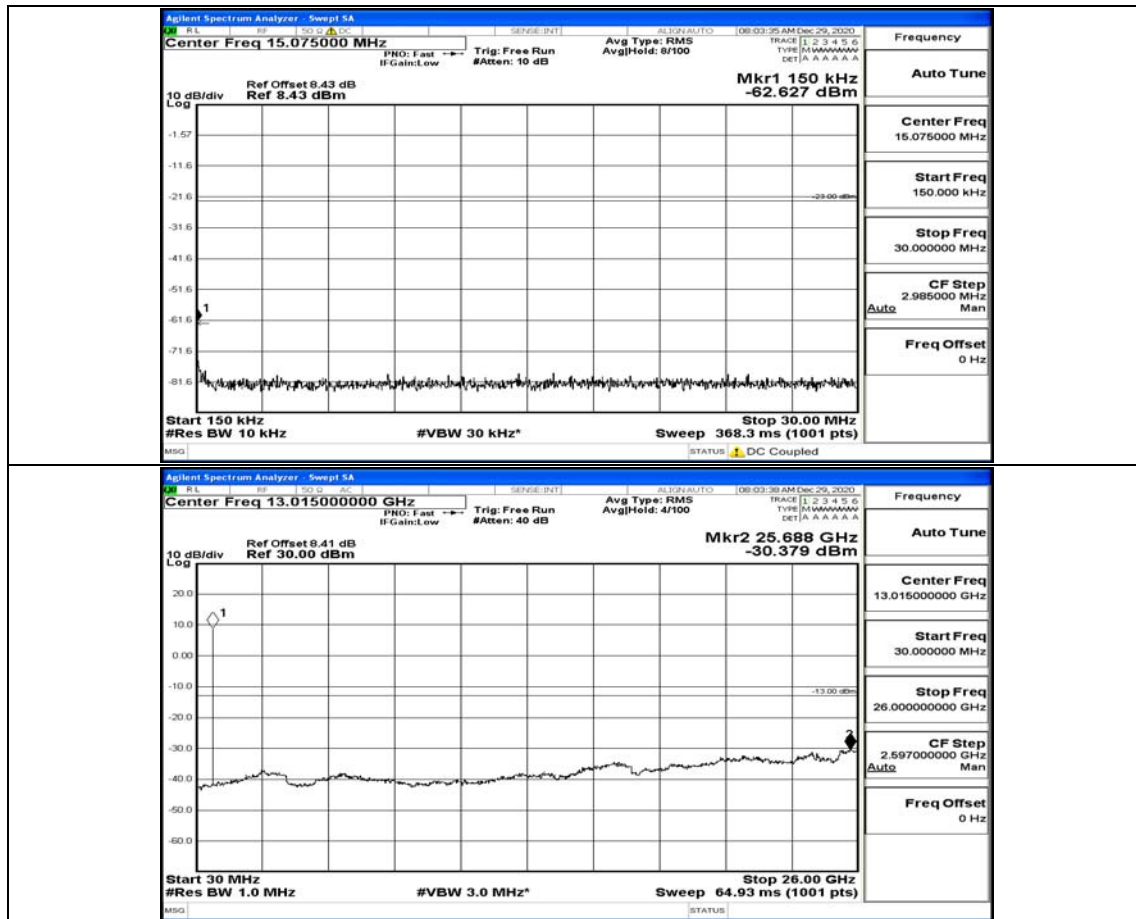


## Channel Bandwidth: 10 MHz

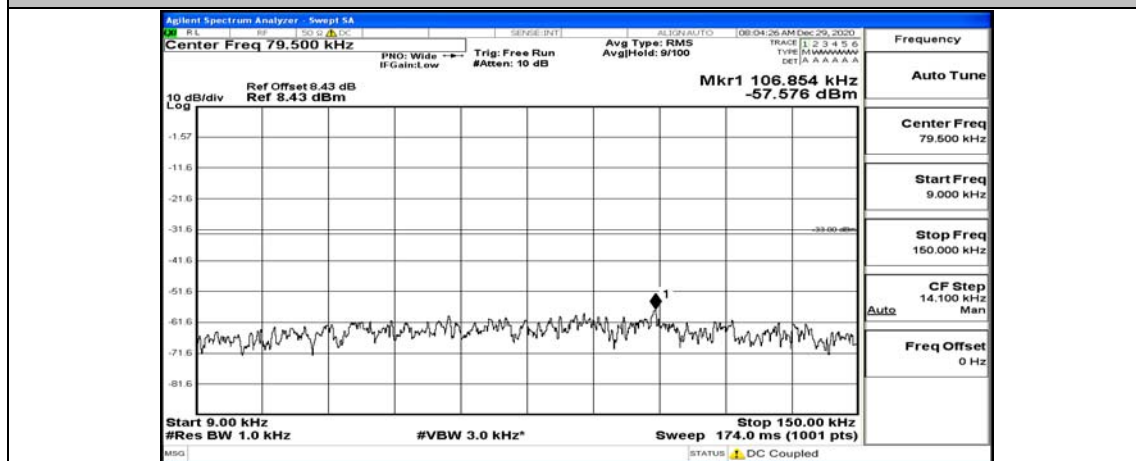


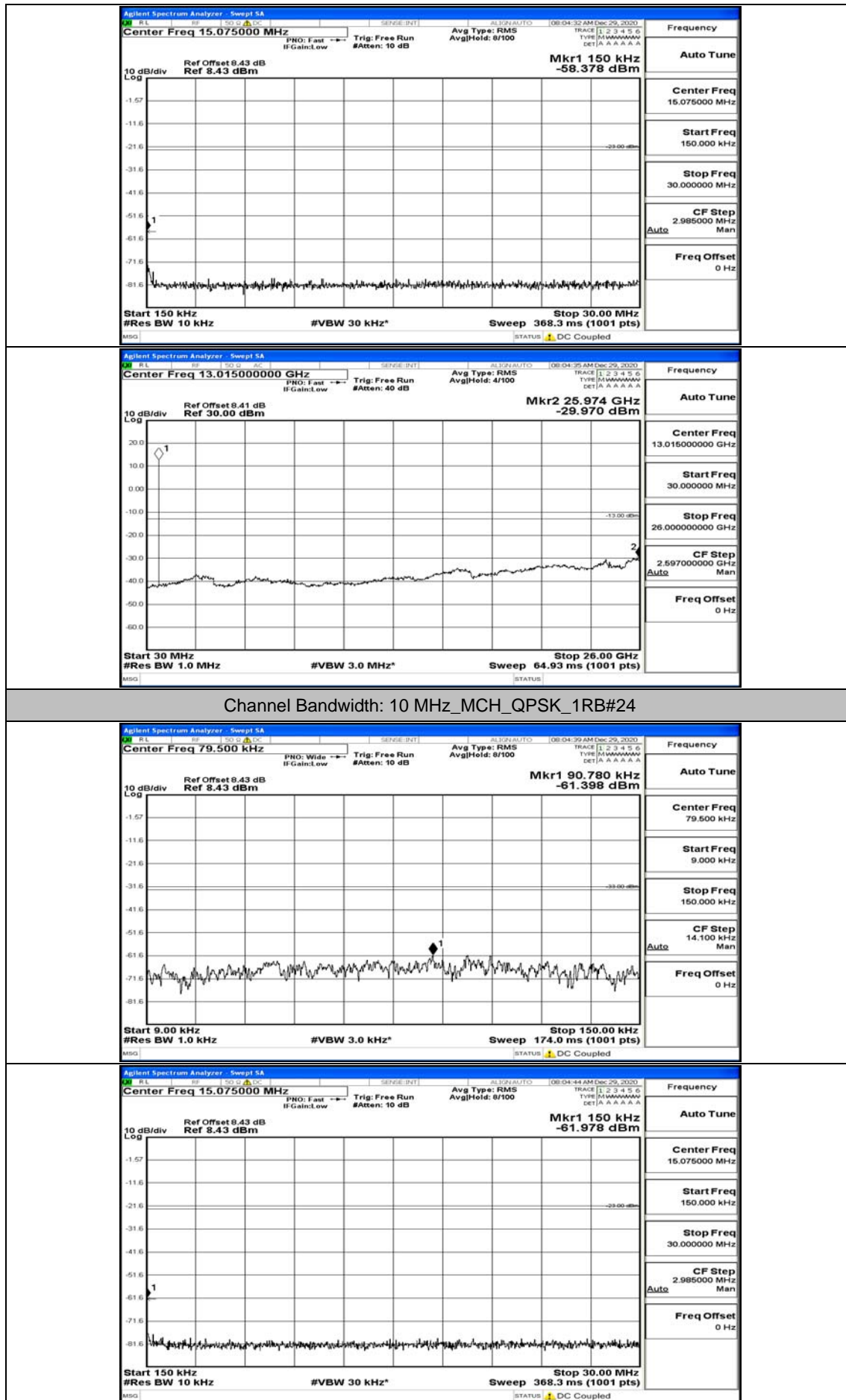


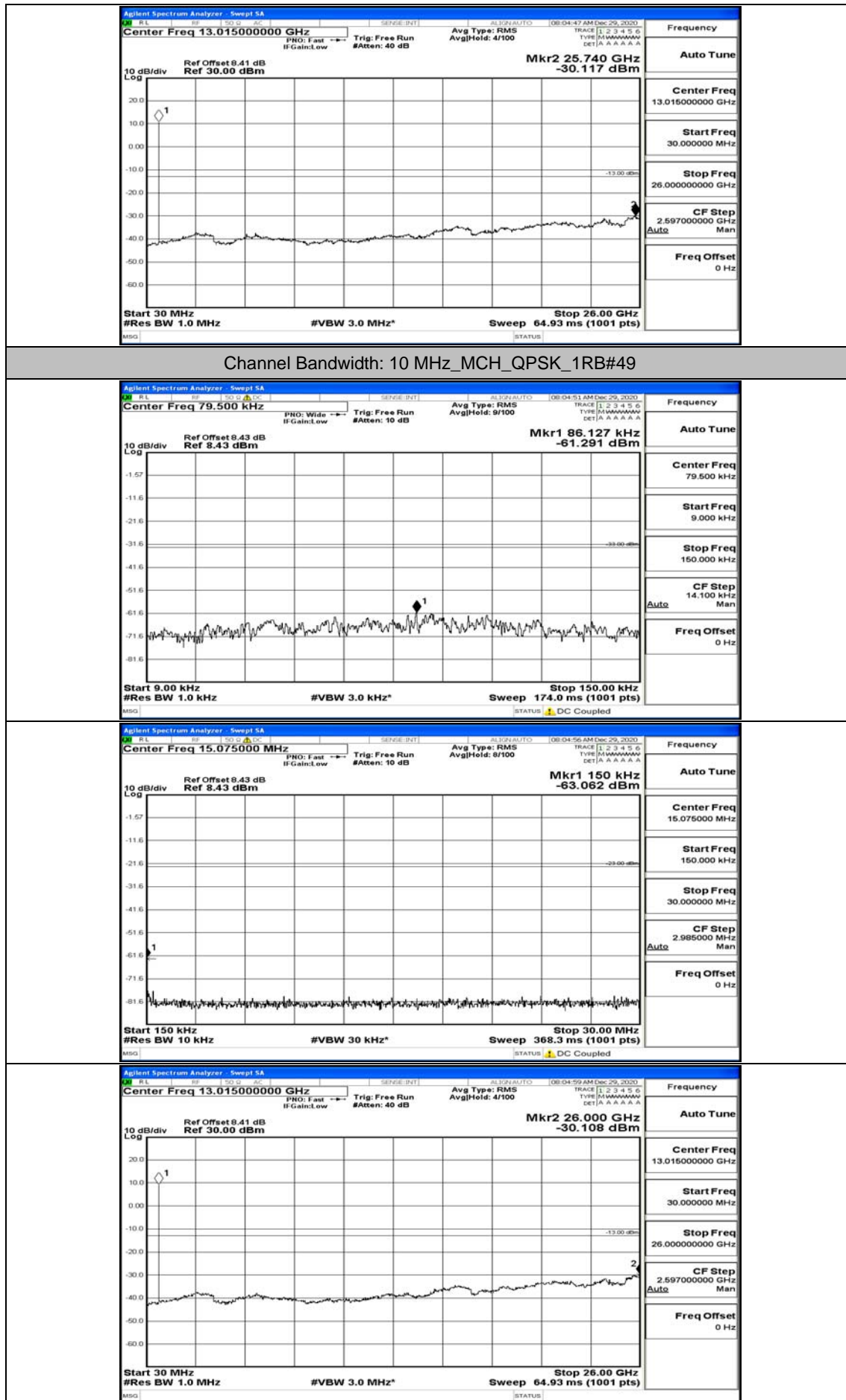




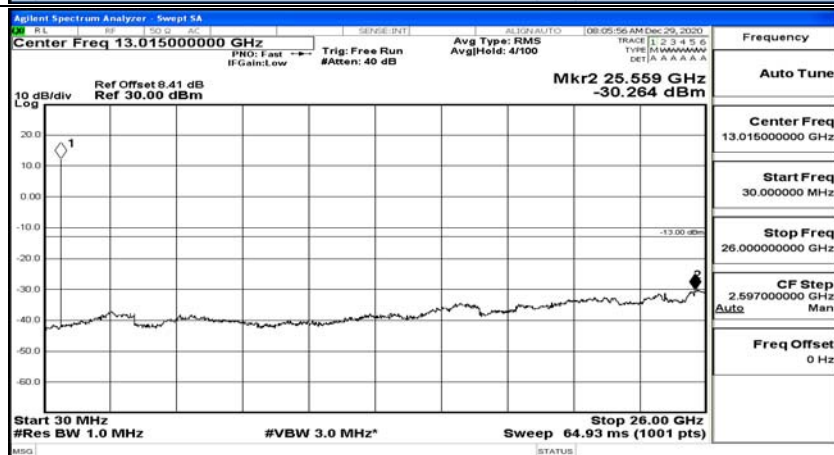
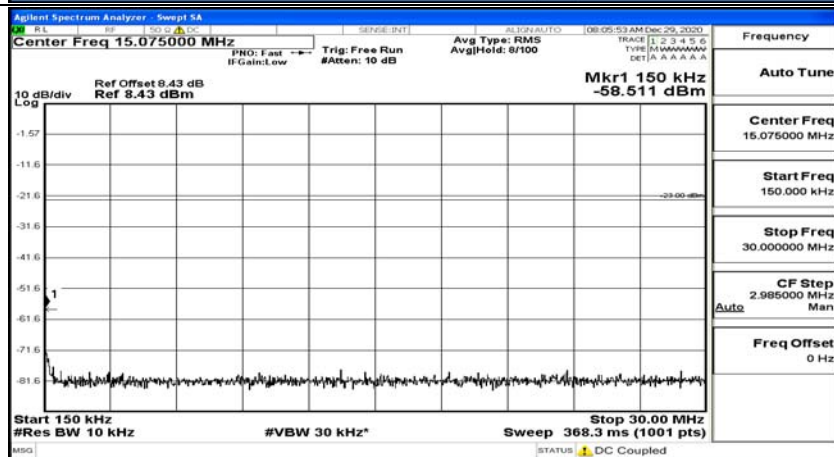
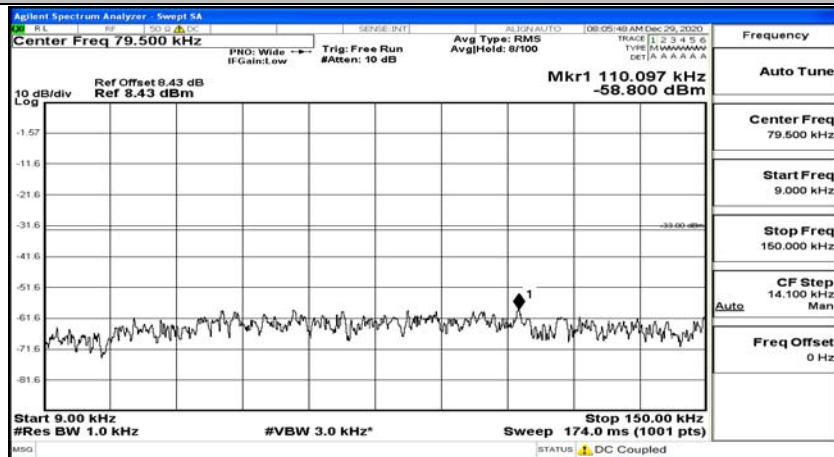
## Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#0





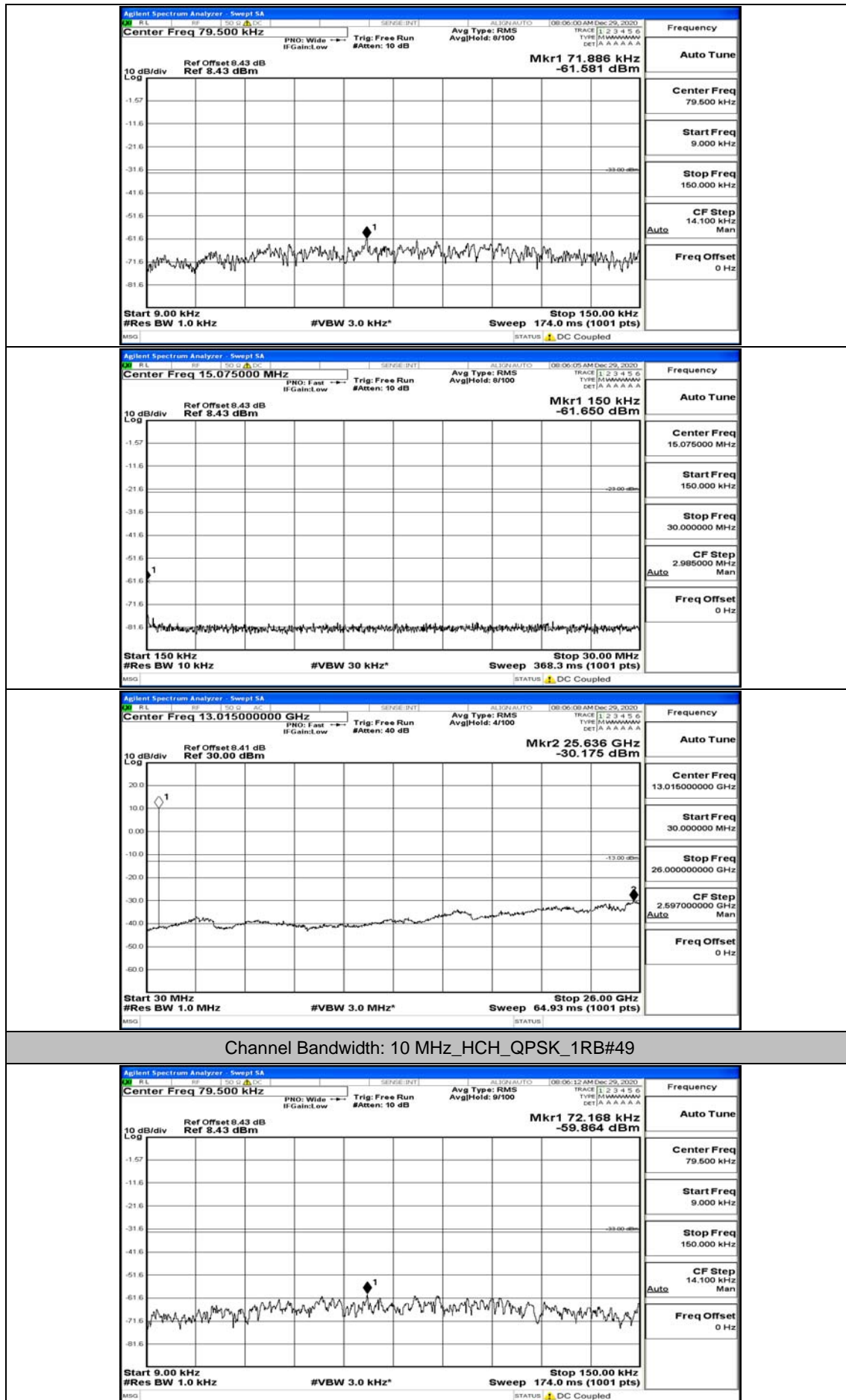


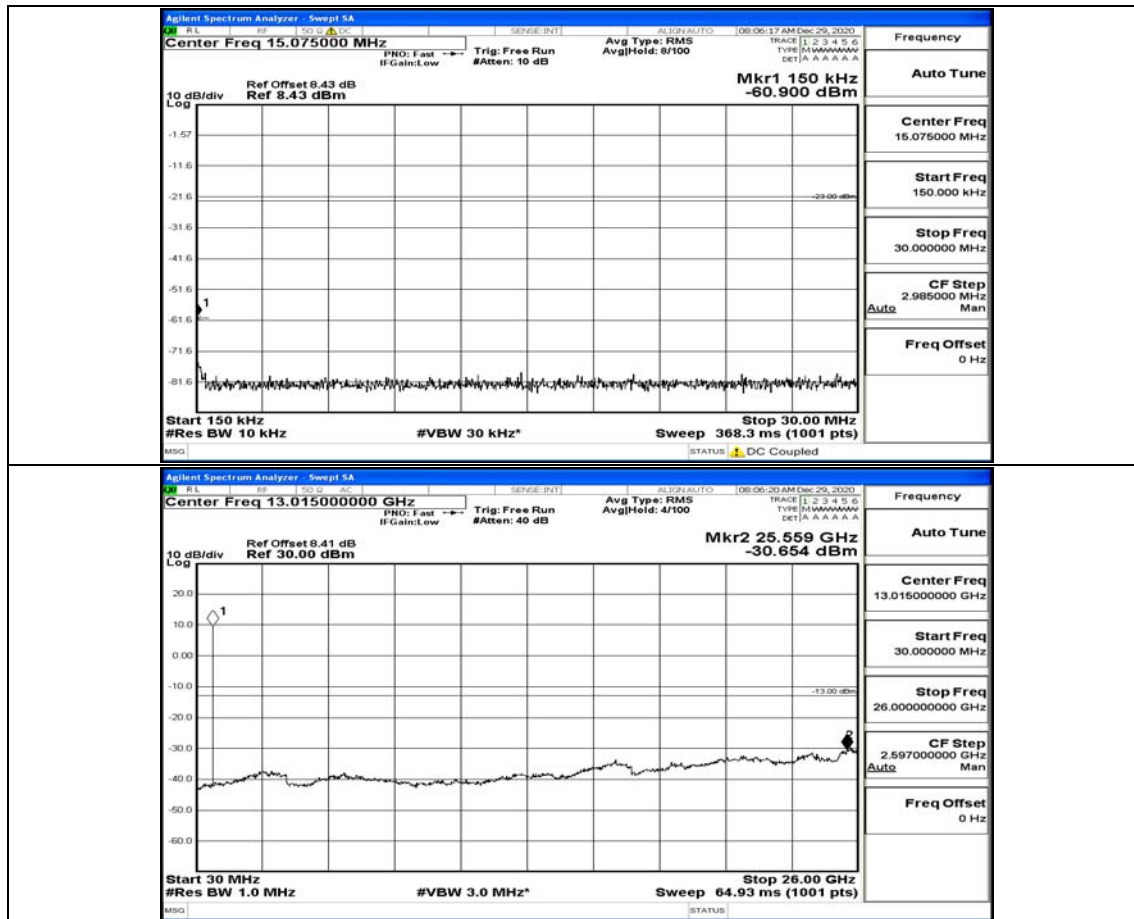
## Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0



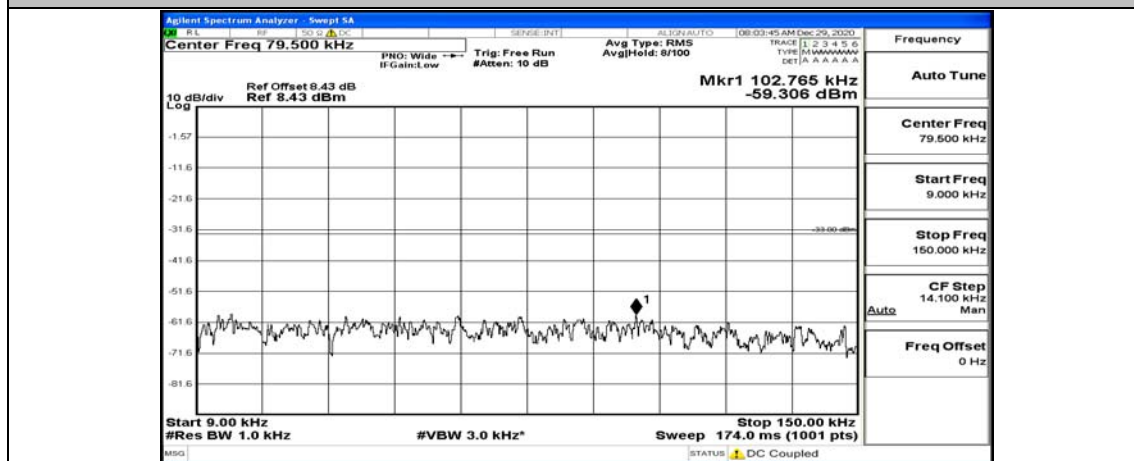
## Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#24

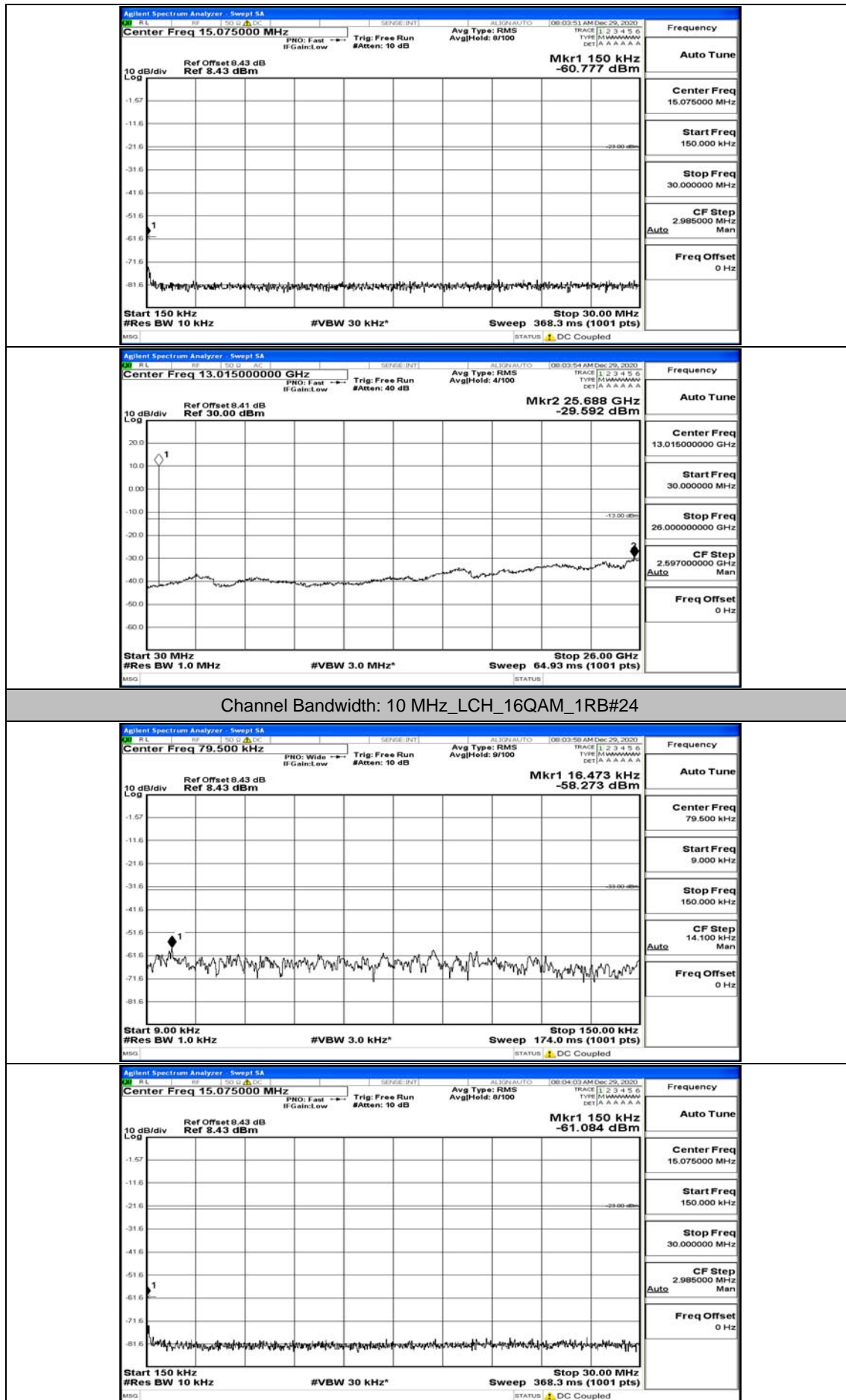




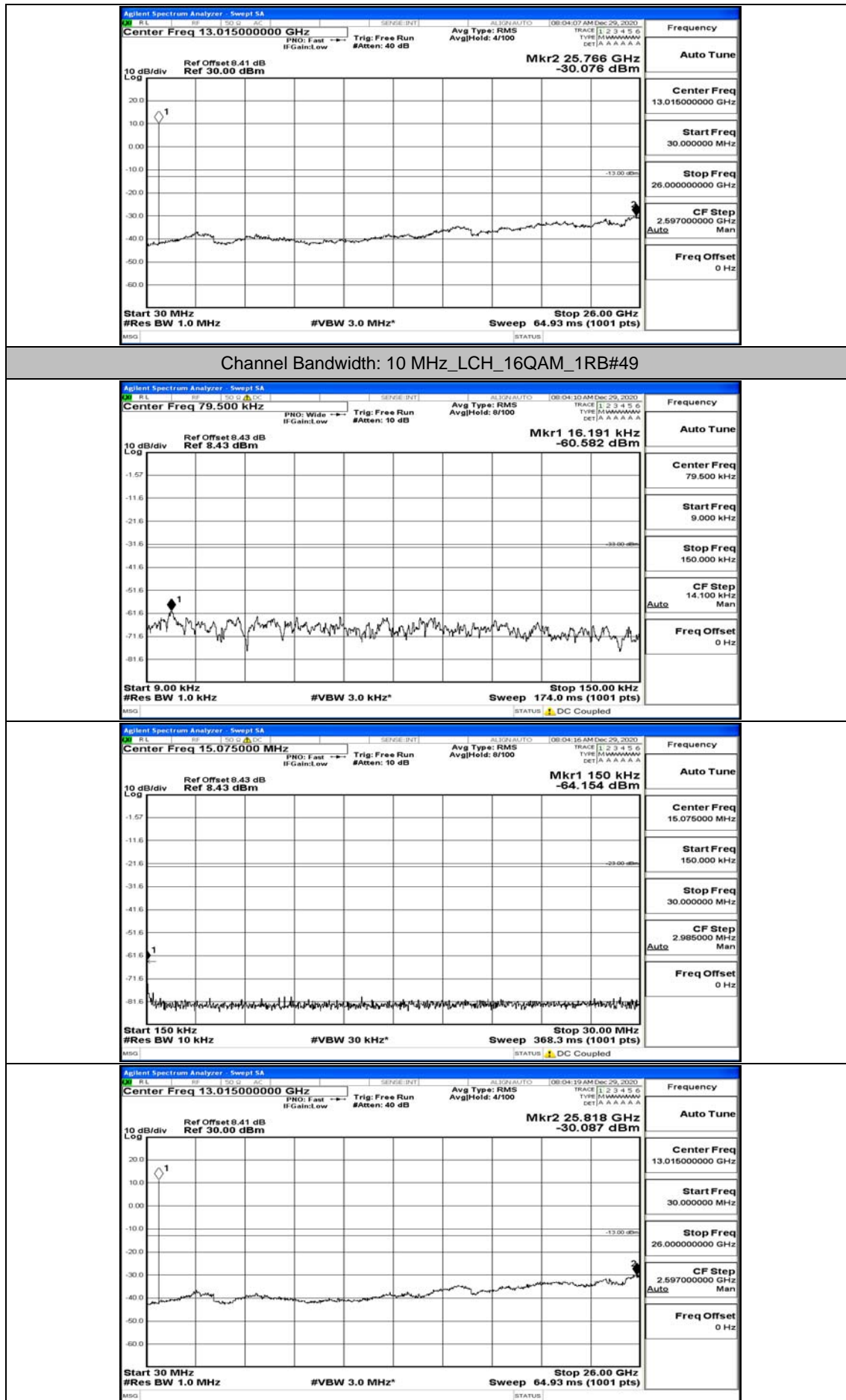


## Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0

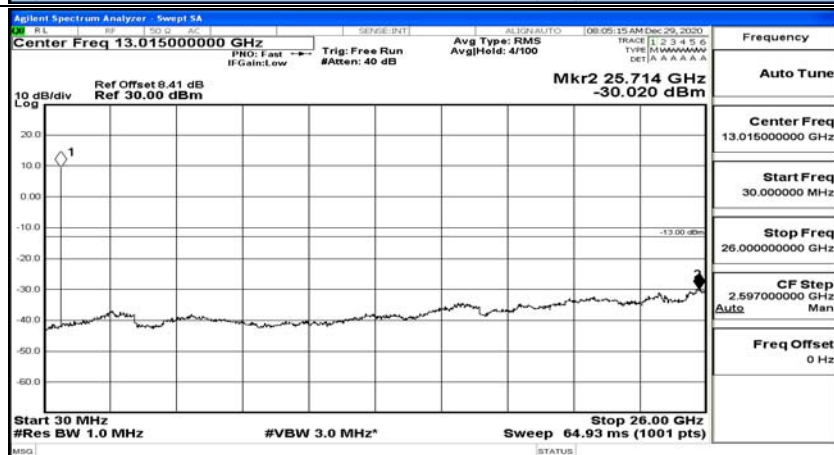
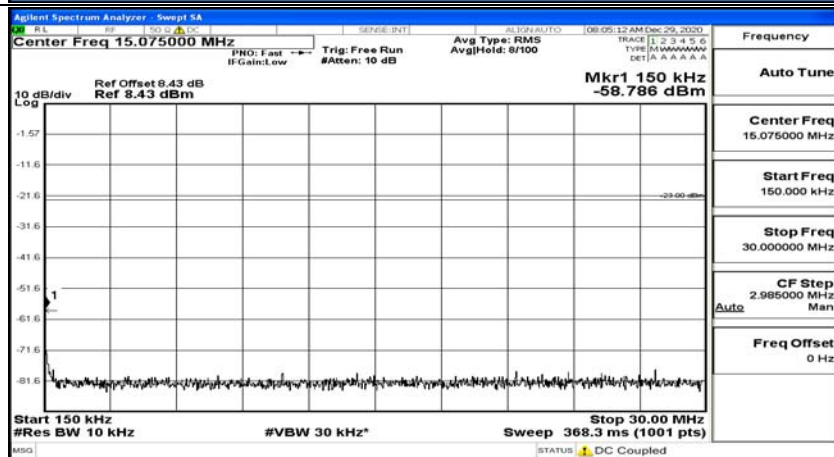
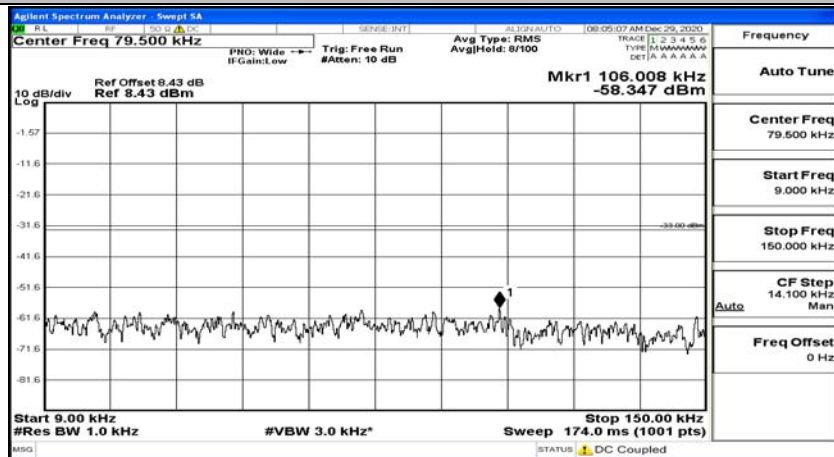




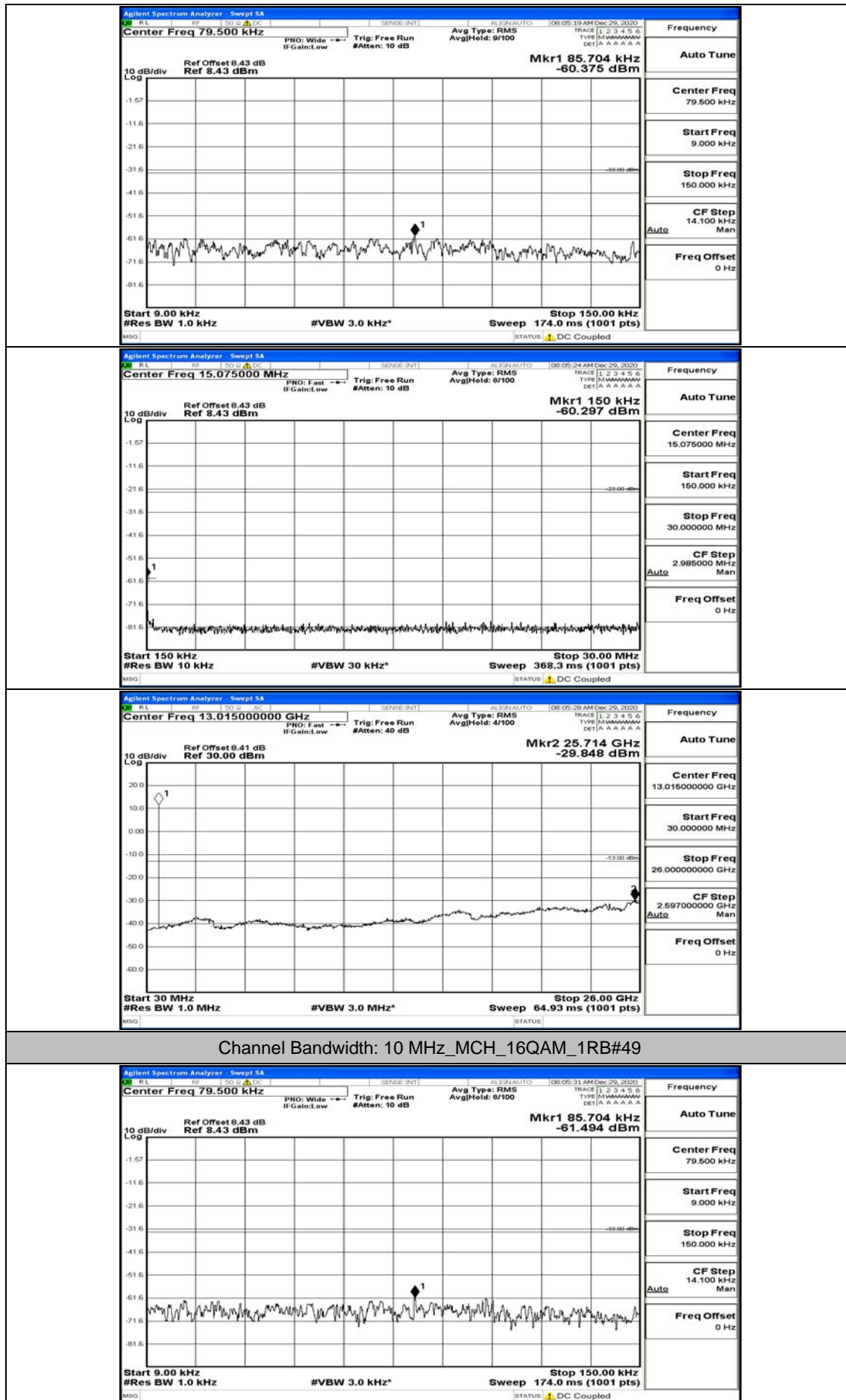


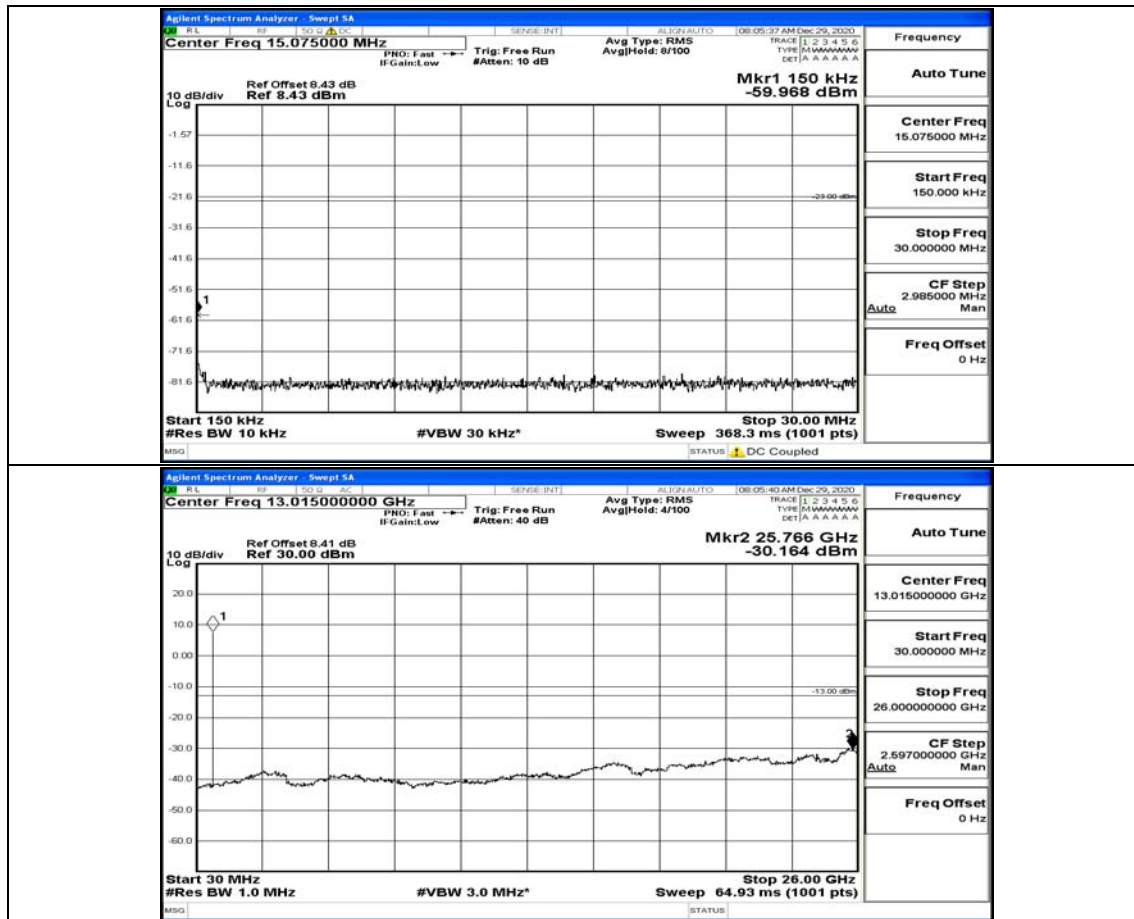


## Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0



## Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#24





## Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0

