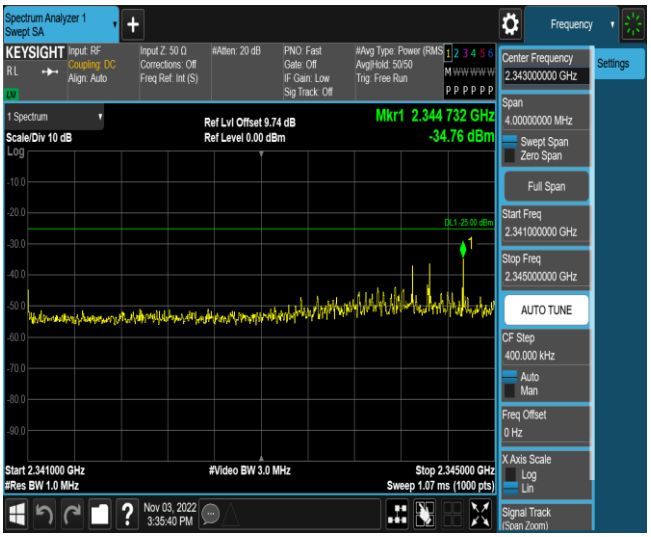
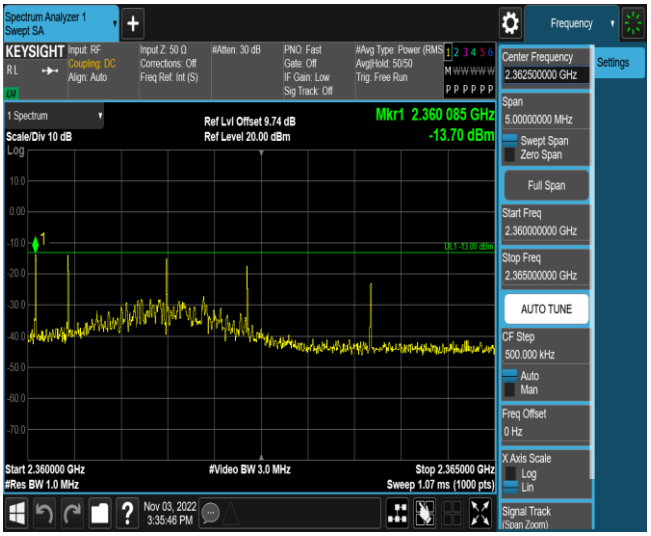
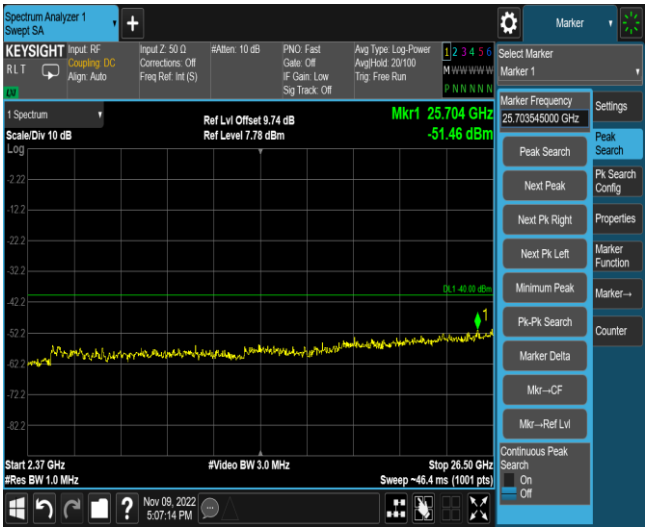
Band40-5MHz-16QAM-39200-1RB#0-Range13:2341~2345MHz



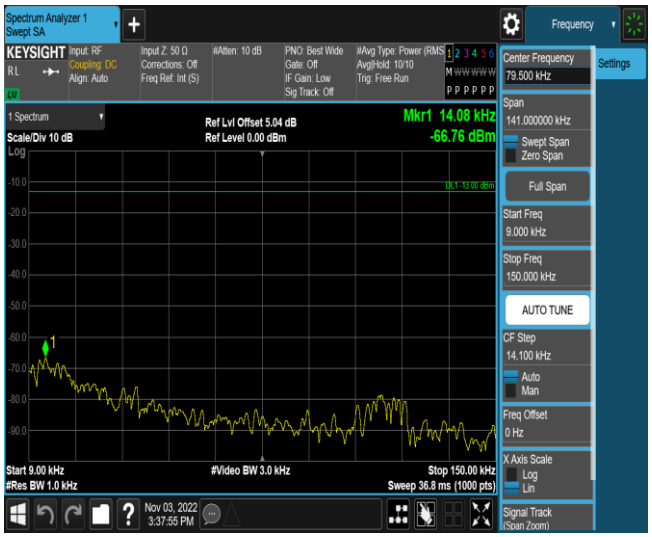
Band40-5MHz-16QAM-39200-1RB#0-Range14:2360~2365MHz



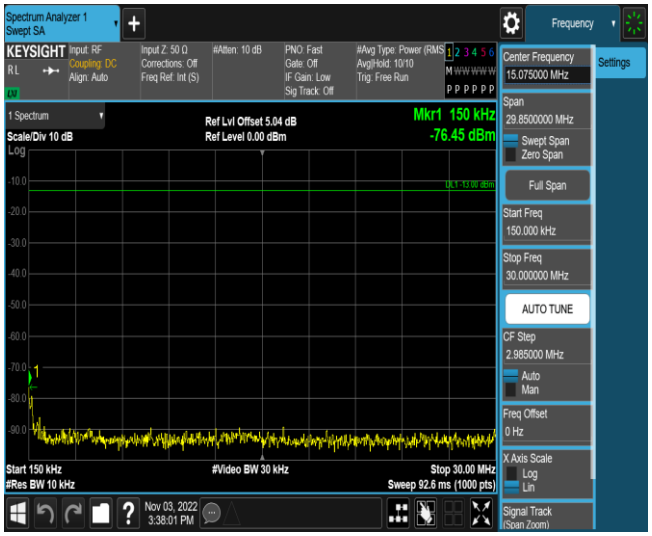
Band40-5MHz-16QAM-39200-1RB#0-Range15:2365~26500MHz



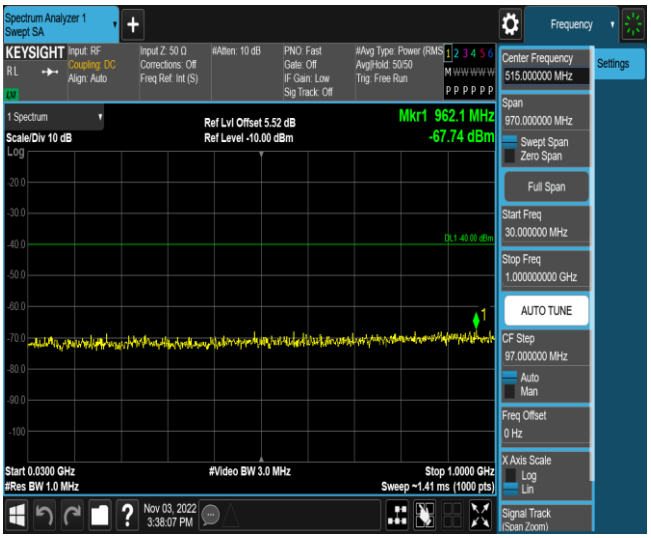
Band40-5MHz-16QAM-39225-1RB#0-Range1:0.009~0.15MHz



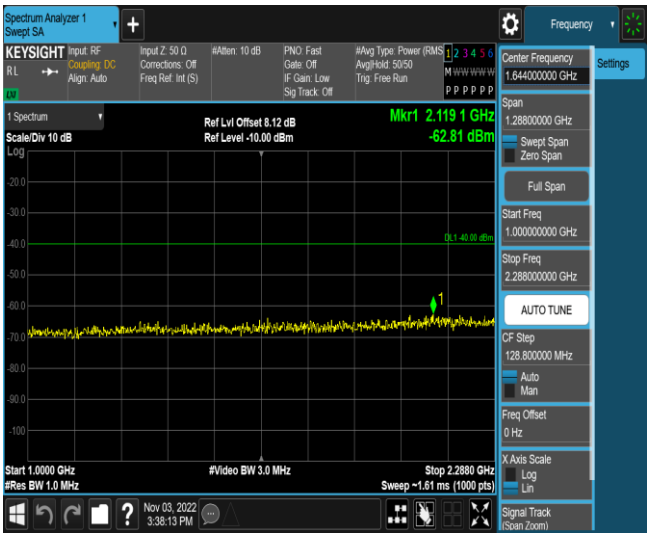
Band40-5MHz-16QAM-39225-1RB#0-Range2:0.15~30MHz



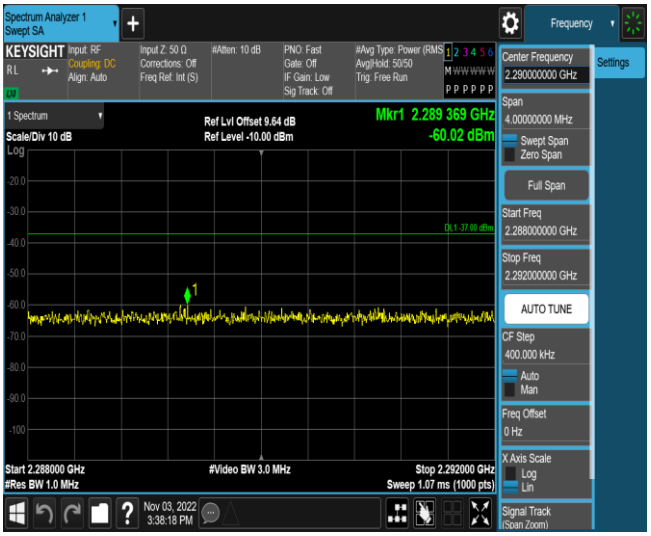
Band40-5MHz-16QAM-39225-1RB#0-Range3:30~1000MHz



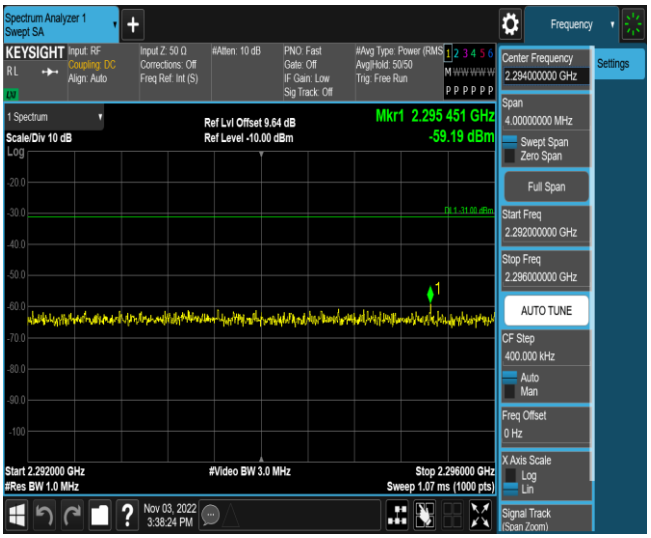
Band40-5MHz-16QAM-39225-1RB#0-Range4:1000~2288MHz



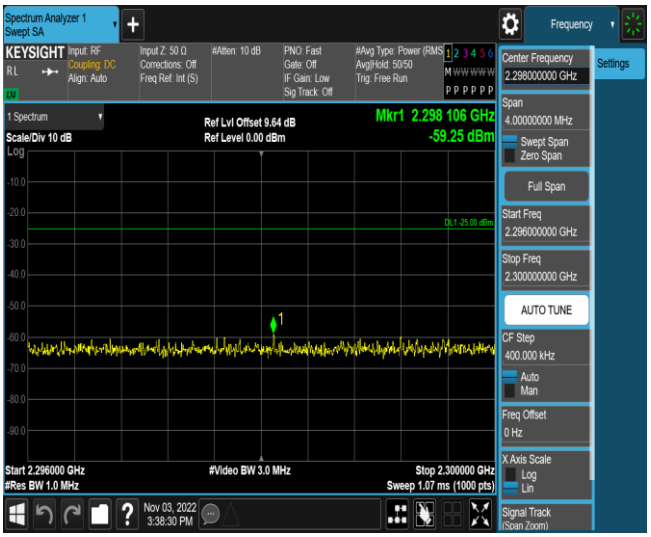
Band40-5MHz-16QAM-39225-1RB#0-Range5:2288~2292MHz



Band40-5MHz-16QAM-39225-1RB#0-Range6:2292~2296MHz

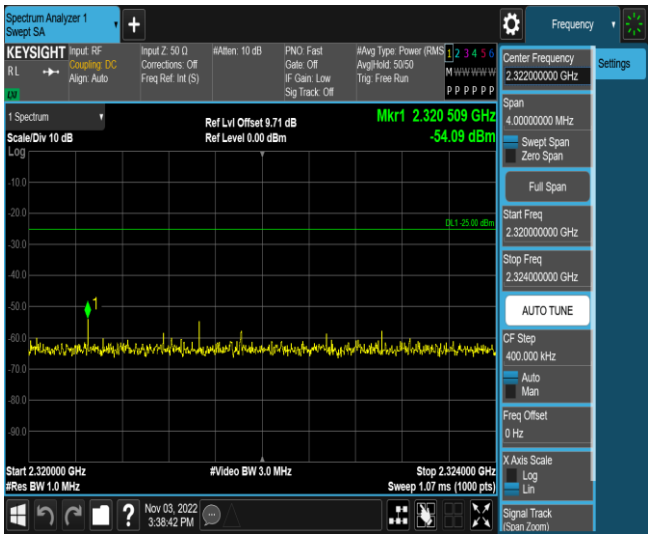


Band40-5MHz-16QAM-39225-1RB#0-Range7:2296~2300MHz

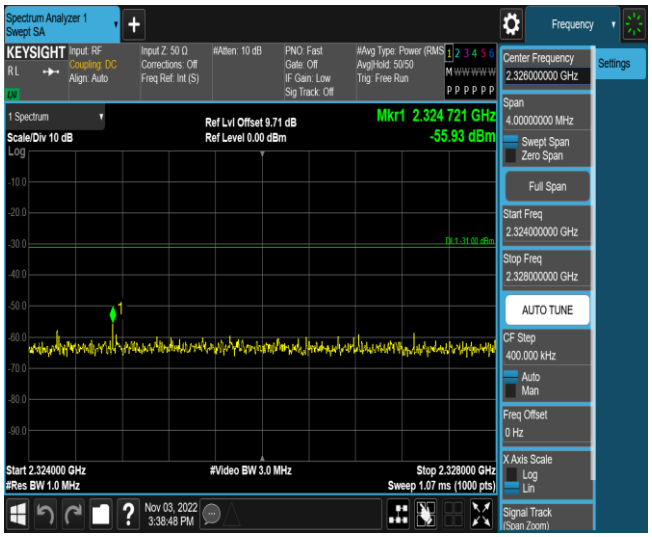


Band40-5MHz-16QAM-39225-1RB#0-Range8:2300~2305MHz

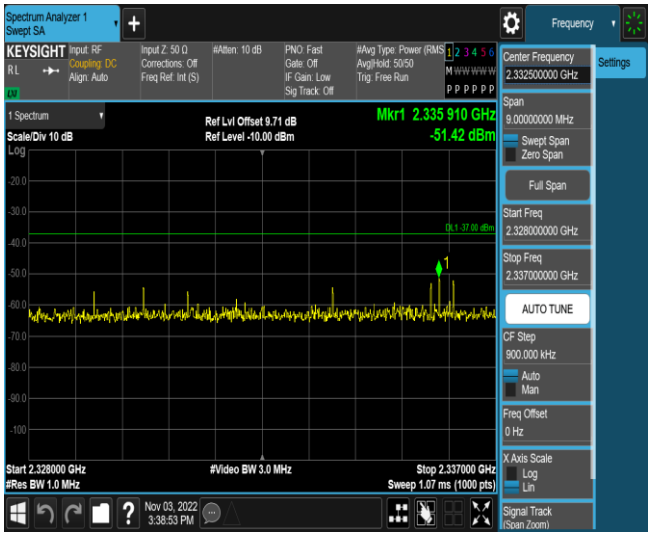
Band40-5MHz-16QAM-39225-1RB#0-Range9:2320~2324MHz



Band40-5MHz-16QAM-39225-1RB#0-Range10:2324~2328MHz

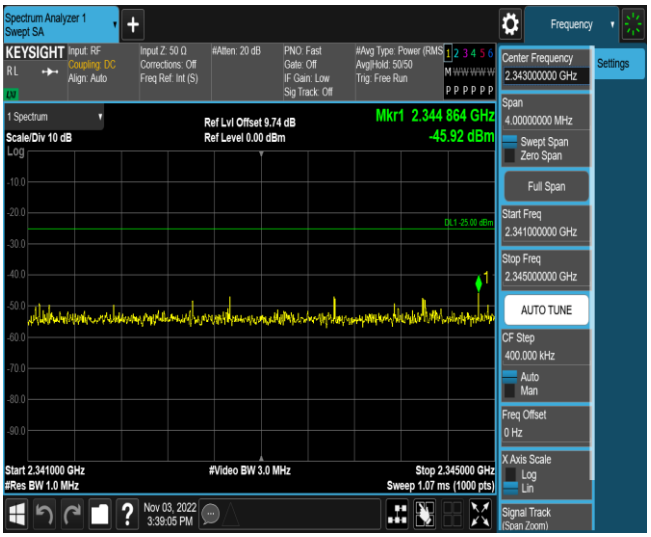


Band40-5MHz-16QAM-39225-1RB#0-Range11:2328~2337MHz

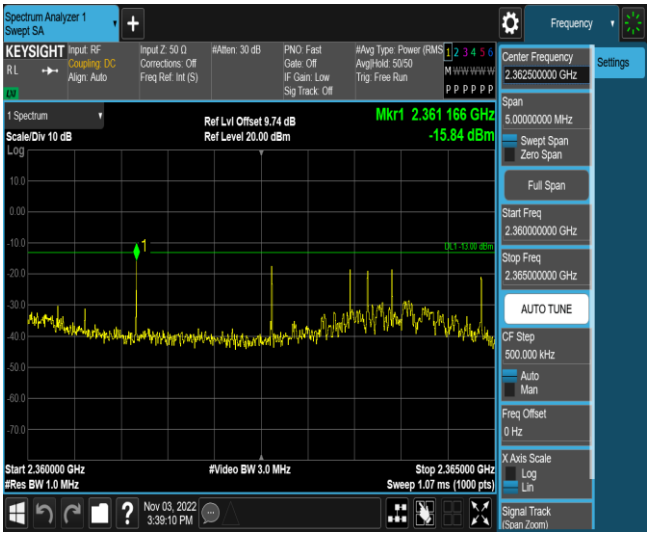


Band40-5MHz-16QAM-39225-1RB#0-Range12:2337~2341MHz

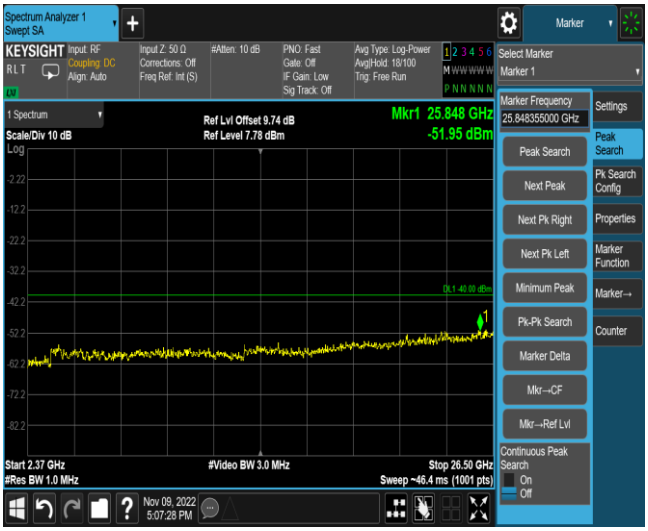
Band40-5MHz-16QAM-39225-1RB#0-Range13:2341~2345MHz



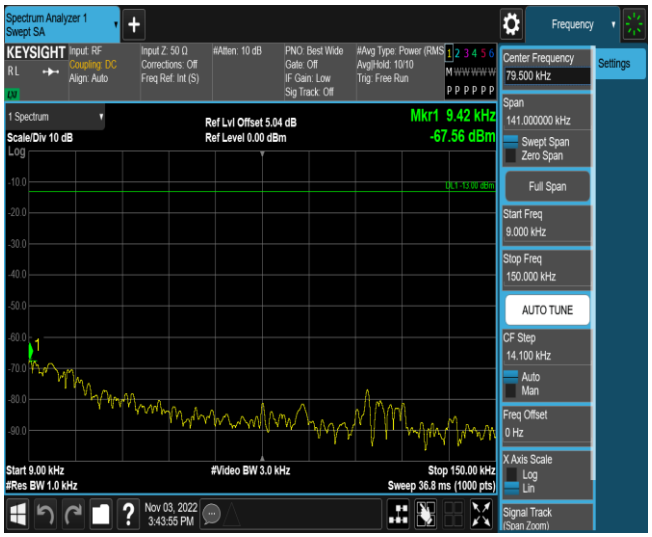
Band40-5MHz-16QAM-39225-1RB#0-Range14:2360~2365MHz



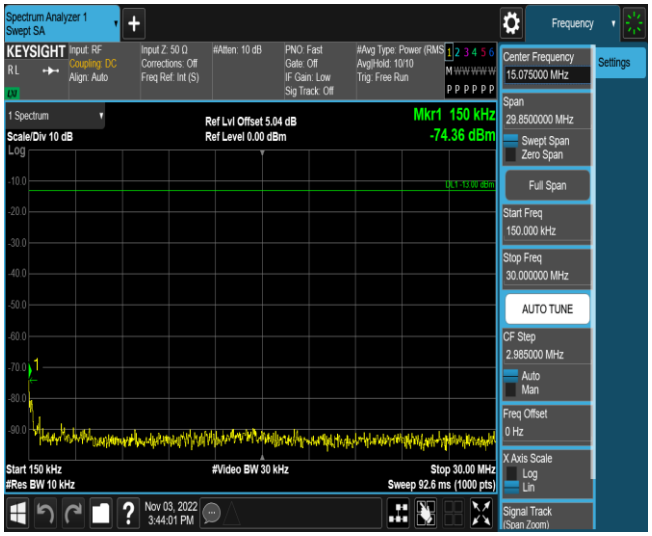
Band40-5MHz-16QAM-39225-1RB#0-Range15:2365~26500MHz



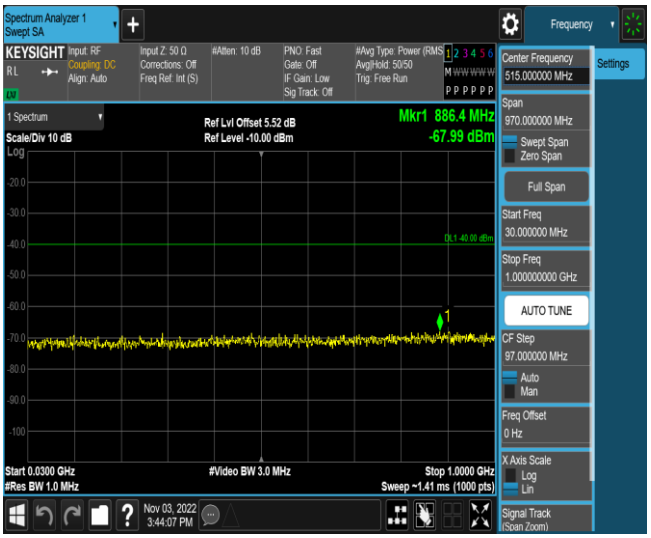
Band40-10MHz-QPSK-39200-1RB#0-Range1:0.009~0.15MHz



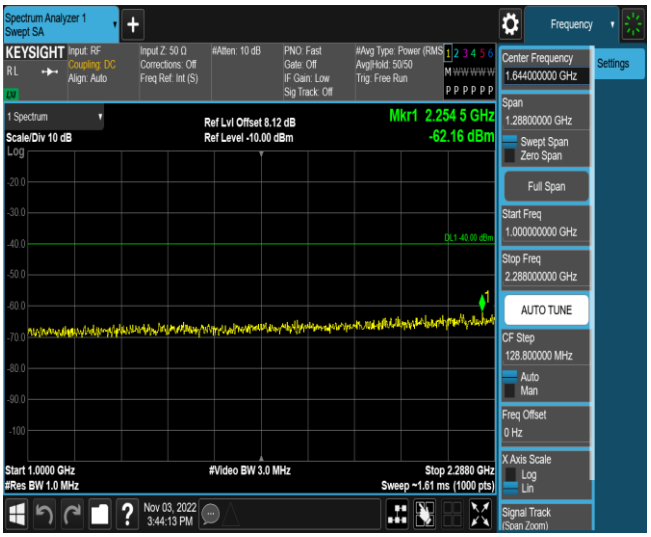
Band40-10MHz-QPSK-39200-1RB#0-Range2:0.15~30MHz



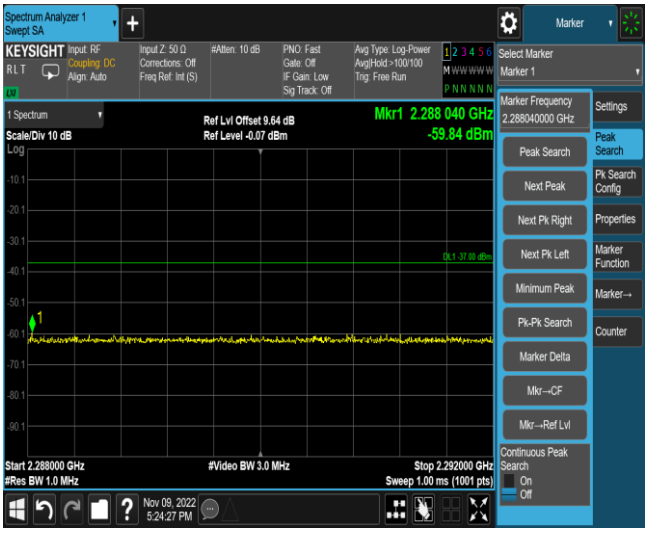
Band40-10MHz-QPSK-39200-1RB#0-Range3:30~1000MHz



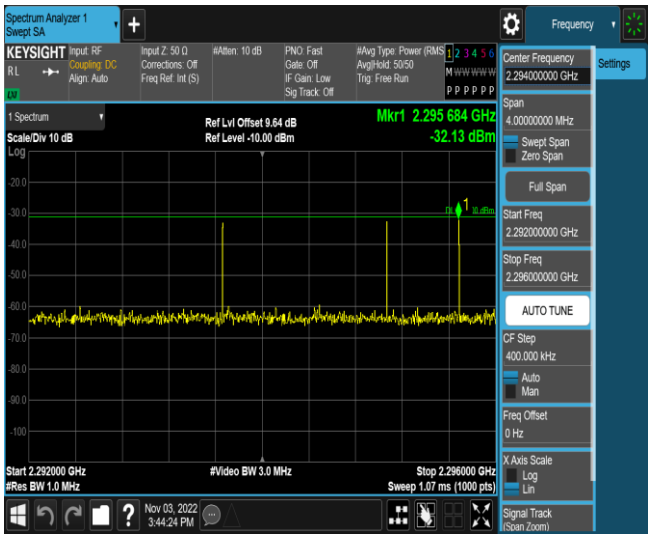
Band40-10MHz-QPSK-39200-1RB#0-Range4:1000~2288MHz



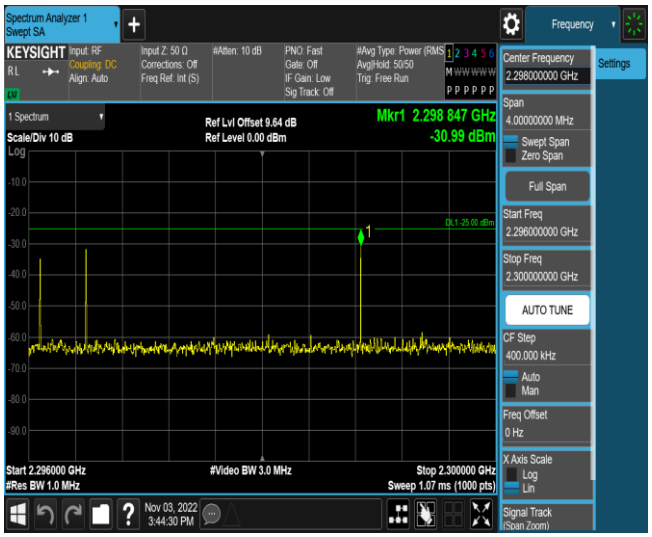
Band40-10MHz-QPSK-39200-1RB#0-Range5:2288~2292MHz



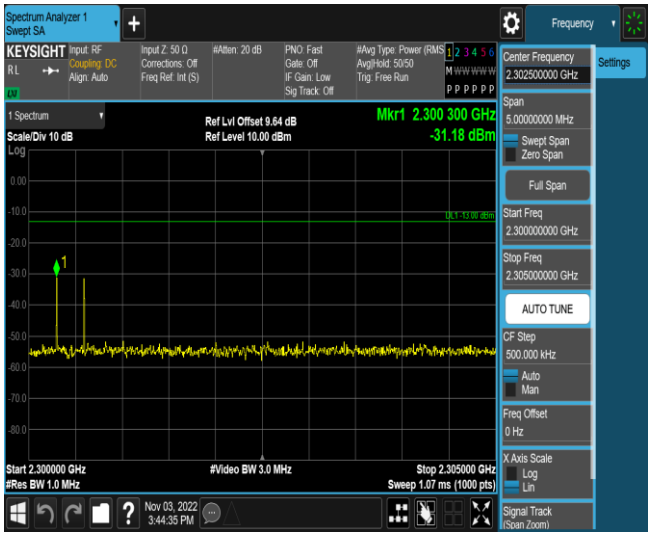
Band40-10MHz-QPSK-39200-1RB#0-Range6:2292~2296MHz



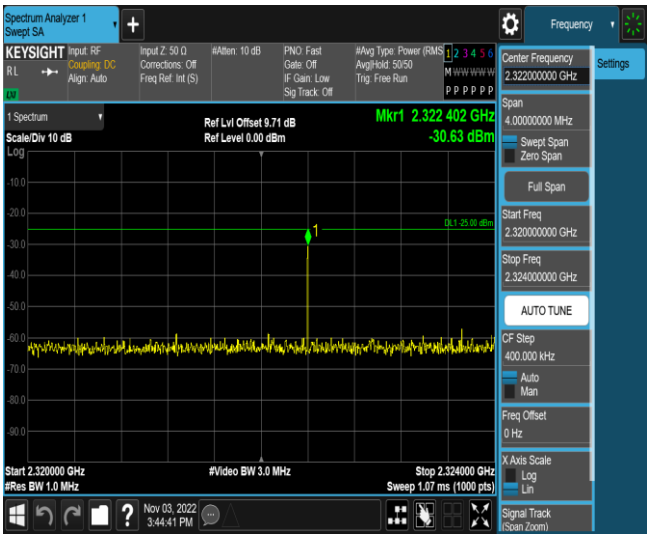
Band40-10MHz-QPSK-39200-1RB#0-Range7:2296~2300MHz



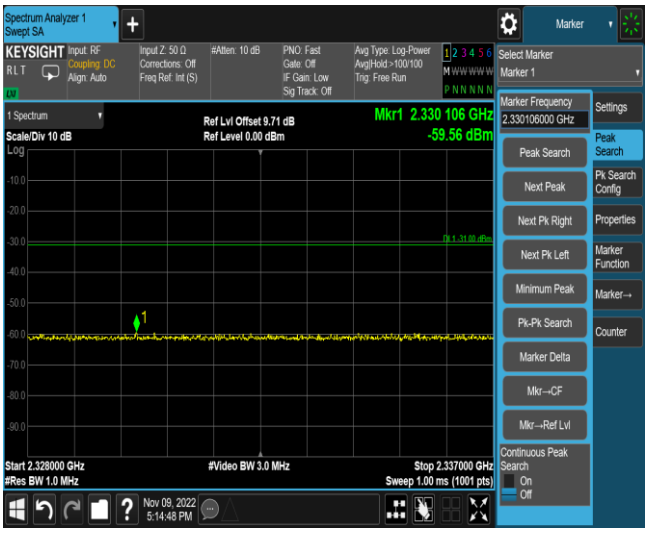
Band40-10MHz-QPSK-39200-1RB#0-Range8:2300~2305MHz



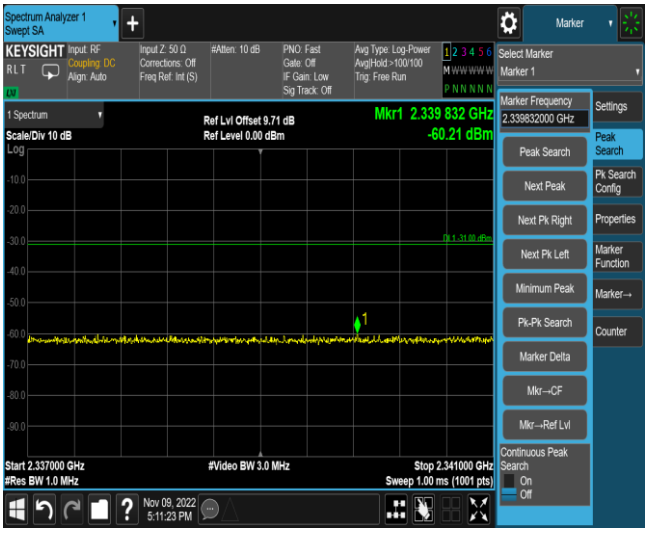
Band40-10MHz-QPSK-39200-1RB#0-Range9:2320~2324MHz



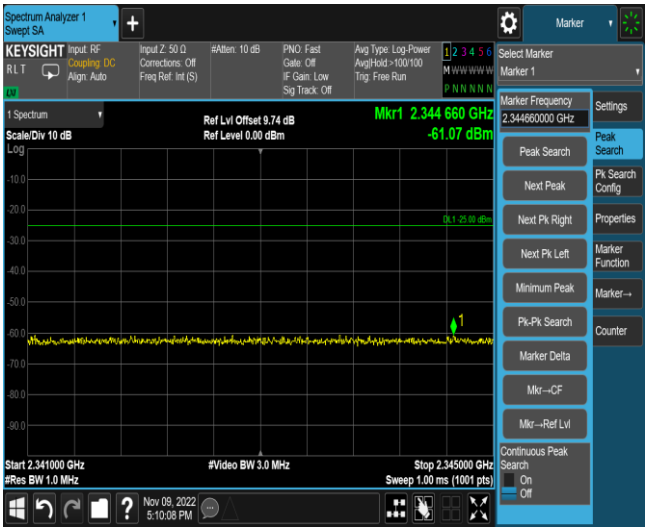
Band40-10MHz-QPSK-39200-1RB#0-Range11:2328~2337MHz



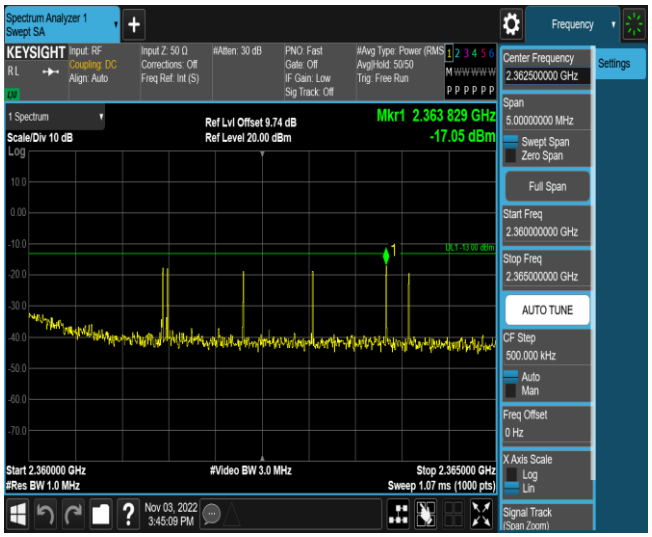
Band40-10MHz-QPSK-39200-1RB#0-Range12:2337~2341MHz



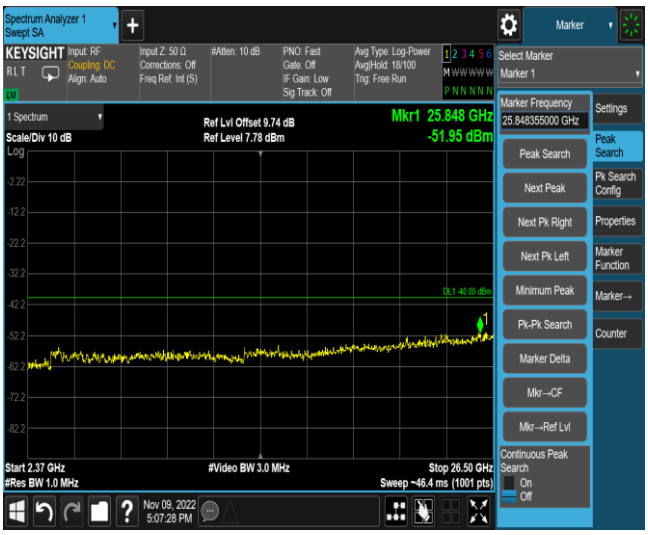
Band40-10MHz-QPSK-39200-1RB#0-Range13:2341~2345MHz



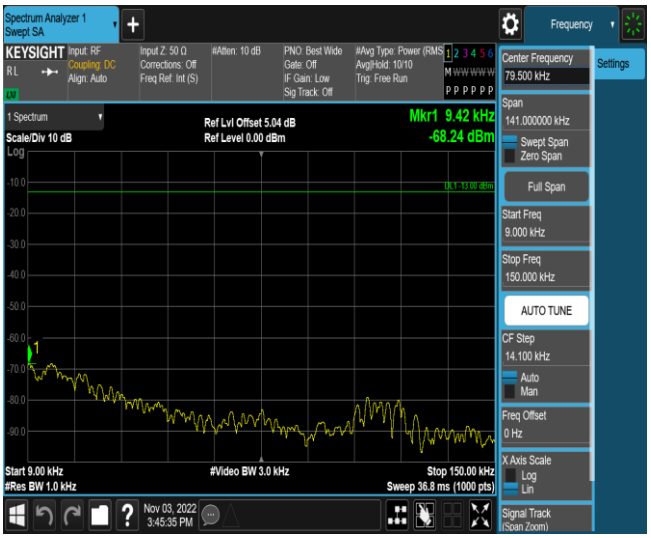
Band40-10MHz-QPSK-39200-1RB#0-Range14:2360~2365MHz



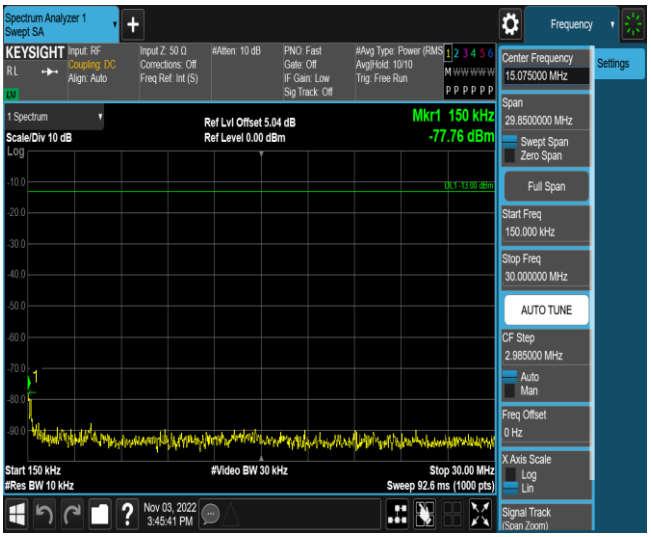
Band40-10MHz-QPSK-39200-1RB#0-Range15:2365~26500MHz



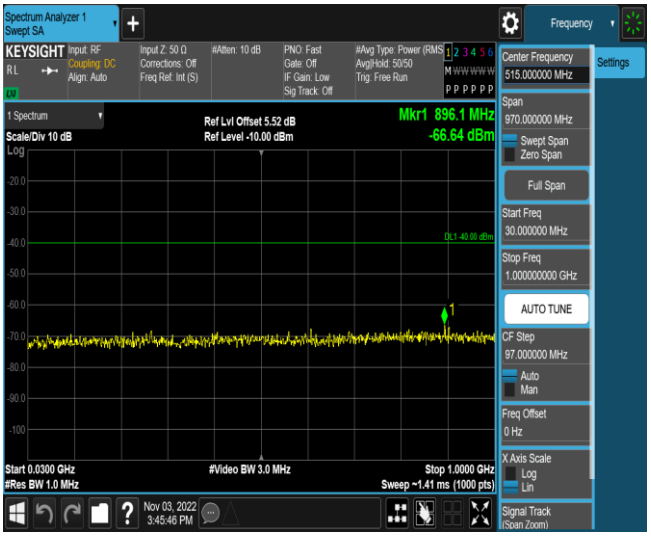
Band40-10MHz-16QAM-39200-1RB#0-Range1:0.009~0.15MHz



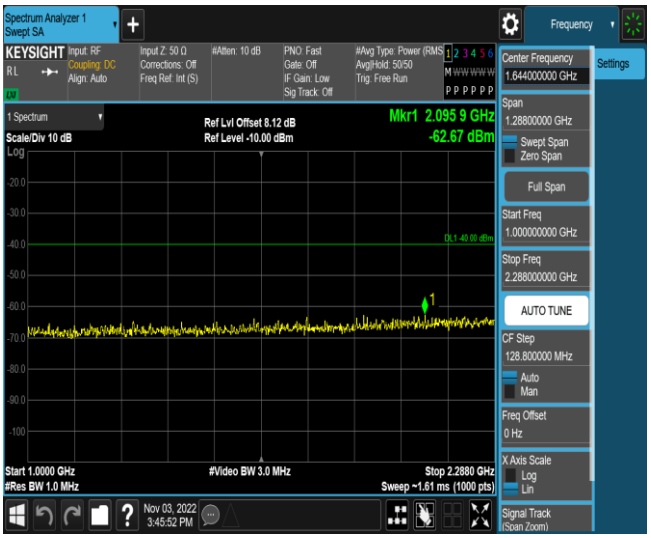
Band40-10MHz-16QAM-39200-1RB#0-Range2:0.15~30MHz



Band40-10MHz-16QAM-39200-1RB#0-Range3:30~1000MHz

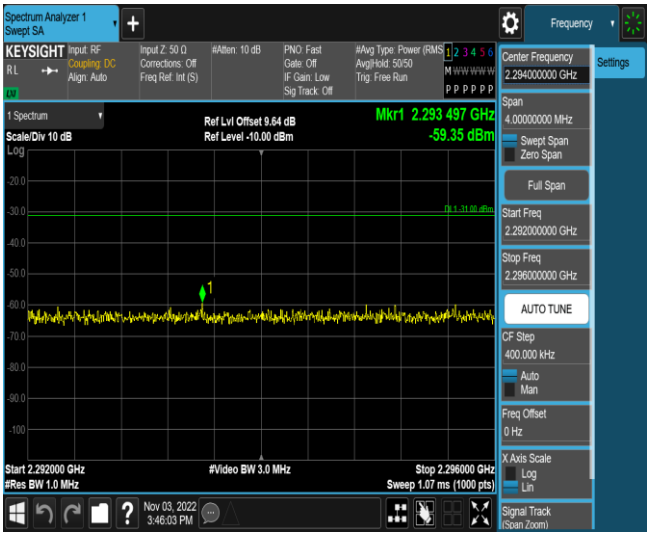


Band40-10MHz-16QAM-39200-1RB#0-Range4:1000~2288MHz

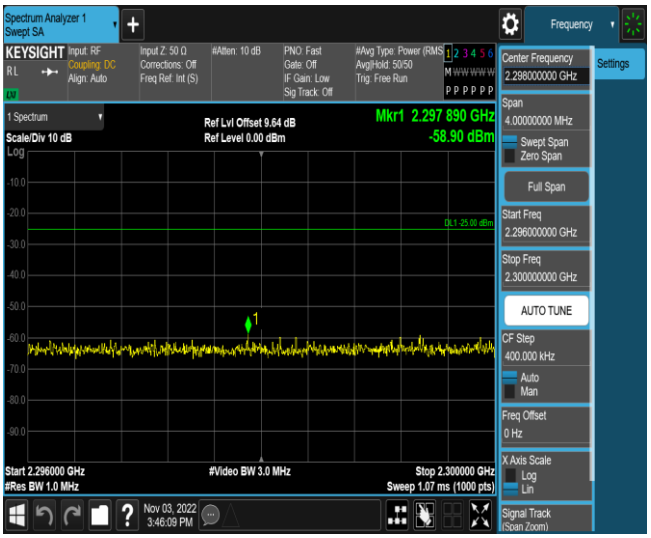


Band40-10MHz-16QAM-39200-1RB#0-Range5:2288~2292MHz

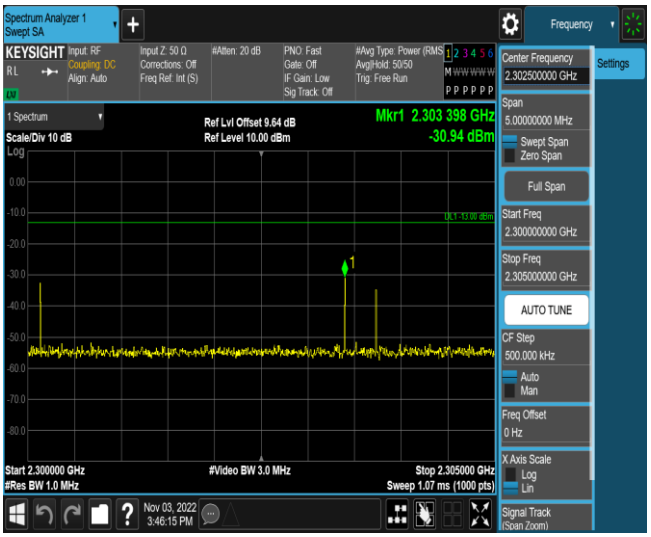
Band40-10MHz-16QAM-39200-1RB#0-Range6:2292~2296MHz



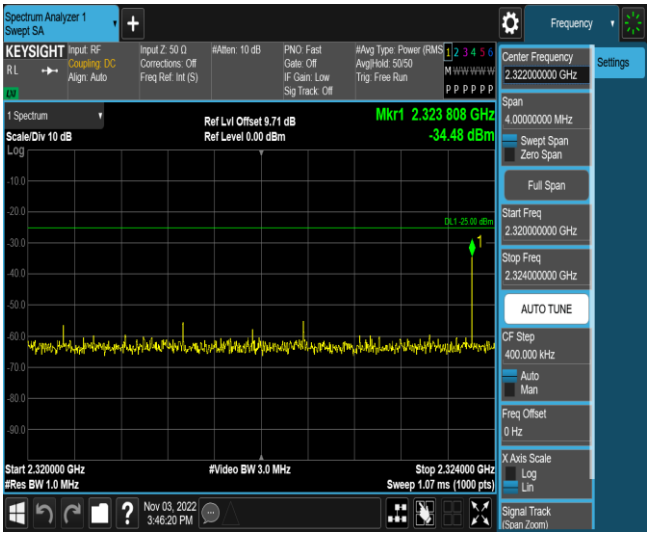
Band40-10MHz-16QAM-39200-1RB#0-Range7:2296~2300MHz



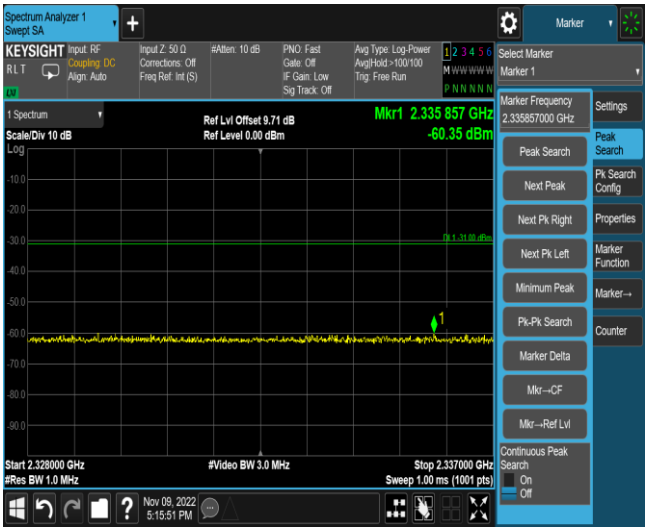
Band40-10MHz-16QAM-39200-1RB#0-Range8:2300~2305MHz



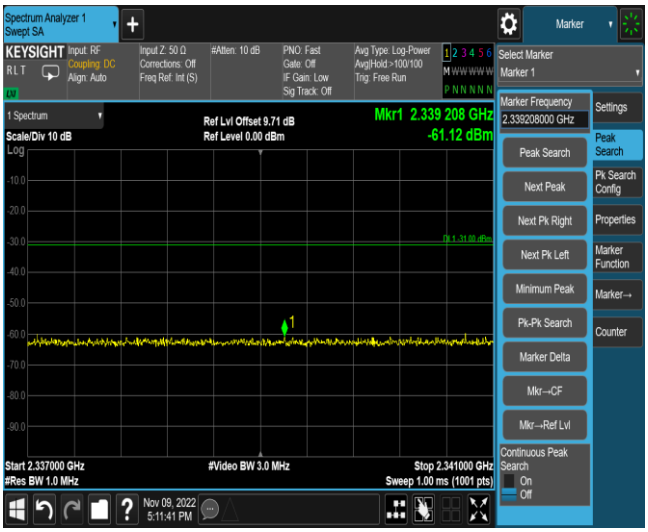
Band40-10MHz-16QAM-39200-1RB#0-Range9:2320~2324MHz



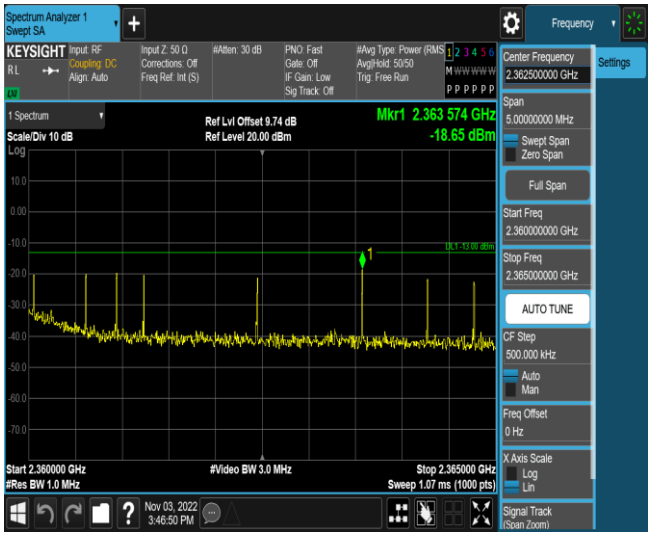
Band40-10MHz-16QAM-39200-1RB#0-Range11:2328~2337MHz



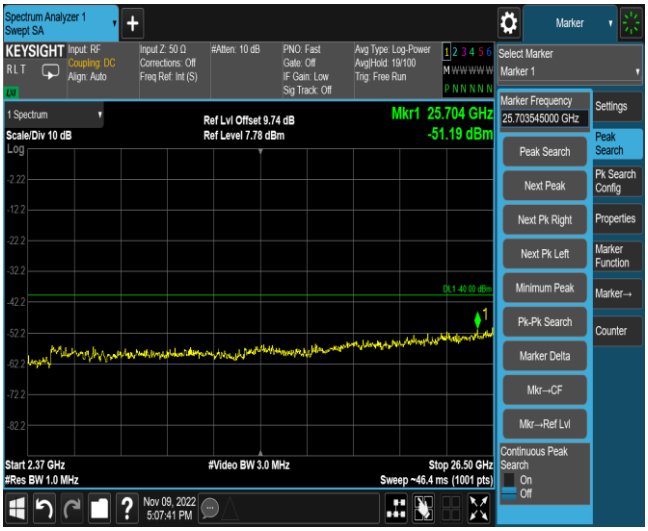
Band40-10MHz-16QAM-39200-1RB#0-Range12:2337~2341MHz



Band40-10MHz-16QAM-39200-1RB#0-Range14:2360~2365MHz



Band40-10MHz-16QAM-39200-1RB#0-Range15:2365~26500MHz


Spectrum Analyzer 1
Swept SA
Marker
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 10 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 19/100
Trig: Free Run
Select Marker
Marker 1
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 9.74 dB
Ref Level 7.78 dBm
Mkr1 25.704 GHz
-51.19 dBm
Start 2.37 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz
Stop 26.50 GHz
Sweep ~46.4 ms (1001 pts)
Nov 09, 2022
5:07:41 PM
Marker Frequency
25.703545000 GHz
Settings
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Minimum Peak
Pk-Pk Search
Marker Delta
Mkr→CF
Mkr→Ref Lvl
Peak Search
Pk Search Config
Properties
Marker Function
Marker→
Counter
Continuous Peak Search
On
Off

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band40	5MHz	QPSK	39175	25RB#0	VL	NT	-4.86	-0.002066	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	VN	NT	-8.78	-0.003732	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	VH	NT	-3.39	-0.001441	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	VL	NT	-2.75	-0.001168	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	VN	NT	8.28	0.003516	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	VH	NT	-7.77	-0.003299	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	VL	NT	-9.78	-0.004148	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	VN	NT	15.38	0.006524	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	VH	NT	6.87	0.002914	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	VL	NT	-12.50	-0.005313	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	VN	NT	-12.56	-0.005339	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	VH	NT	-17.29	-0.007350	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	VL	NT	-14.89	-0.006323	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	VN	NT	-13.83	-0.005873	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	VH	NT	-13.68	-0.005809	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	VL	NT	-4.53	-0.001922	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	VN	NT	4.36	0.001849	±2.5	PASS

Band40	5MHz	16QAM	39225	25RB#0	VH	NT	-4.25	-0.001803	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	VL	NT	-10.60	-0.004501	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	VN	NT	-11.09	-0.004709	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	VH	NT	-10.56	-0.004484	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	VL	NT	-12.20	-0.005180	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	VN	NT	-5.59	-0.002374	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	VH	NT	-4.82	-0.002047	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band40	5MHz	QPSK	39175	25RB#0	NV	-30	-10.71	-0.004553	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	-20	-7.41	-0.003150	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	0	-10.54	-0.004480	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	10	-10.34	-0.004395	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	20	-10.44	-0.004438	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	-30	-6.48	-0.002752	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	-20	-12.03	-0.005108	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	0	-10.56	-0.004484	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	10	-7.67	-0.003257	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	20	-11.01	-0.004675	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	-30	-5.45	-0.002312	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	-20	-4.69	-0.001989	±2.5	PASS

Band40	5MHz	QPSK	39225	25RB#0	NV	0	-2.06	-0.000874	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	10	-4.94	-0.002095	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	20	-3.75	-0.001591	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	-30	-13.65	-0.005802	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	-20	-15.12	-0.006427	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	0	-10.99	-0.004672	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	10	-13.22	-0.005620	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	20	-11.93	-0.005071	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	-30	-9.66	-0.004102	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	-20	-5.21	-0.002212	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	0	-11.46	-0.004866	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	10	-13.16	-0.005588	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	20	-10.20	-0.004331	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	-30	5.99	0.002541	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	-20	-9.44	-0.004004	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	0	3.38	0.001434	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	10	-3.22	-0.001366	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	20	-3.30	-0.001400	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	-30	-8.78	-0.003728	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	-20	-6.92	-0.002938	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	0	-11.49	-0.004879	±2.5	PASS

Band40	10MHz	QPSK	39200	50RB#0	NV	10	-10.24	-0.004348	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	20	-8.96	-0.003805	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	-30	-8.65	-0.003673	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	-20	-10.81	-0.004590	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	0	-6.32	-0.002684	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	10	-7.64	-0.003244	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	20	-7.25	-0.003079	±2.5	PASS