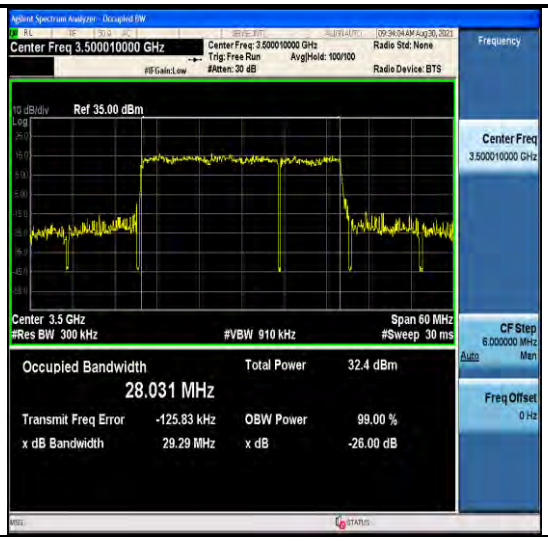

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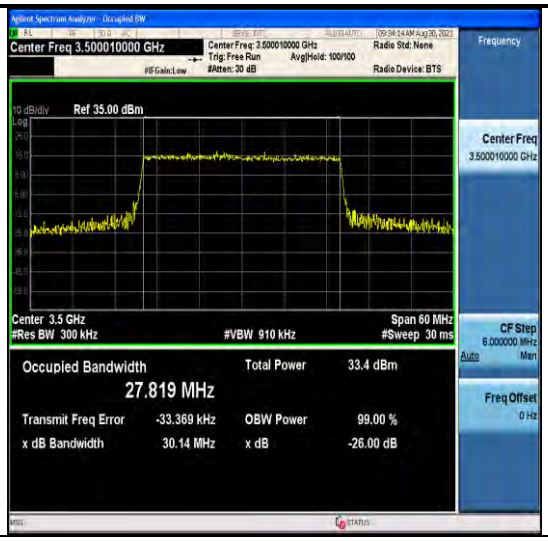

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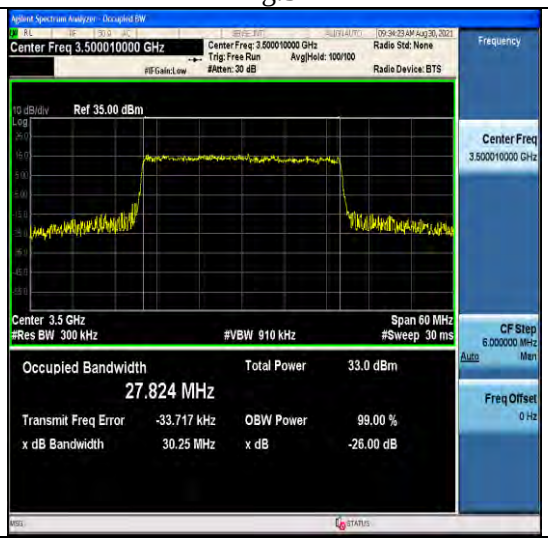

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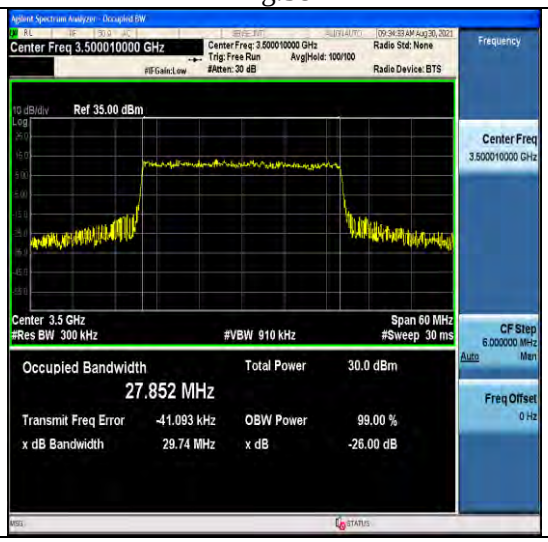

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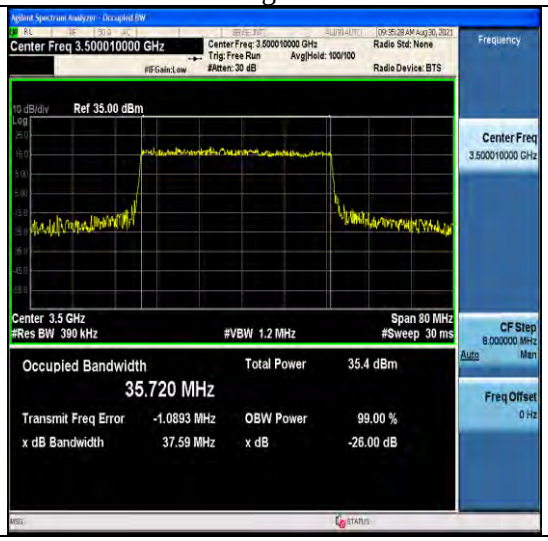

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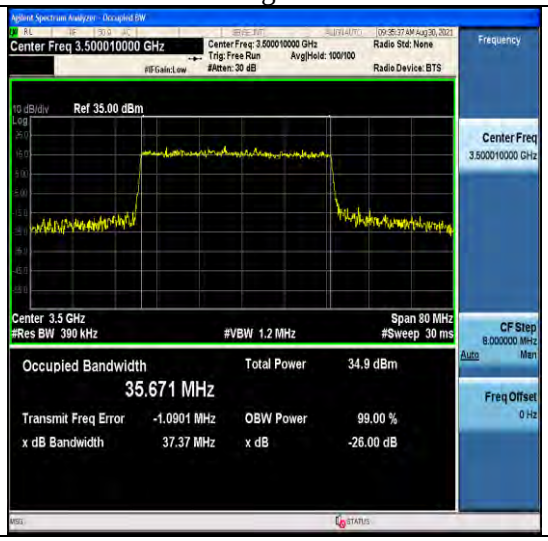

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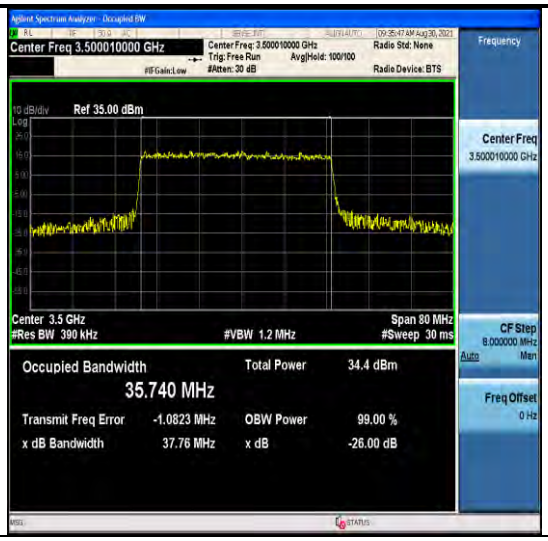

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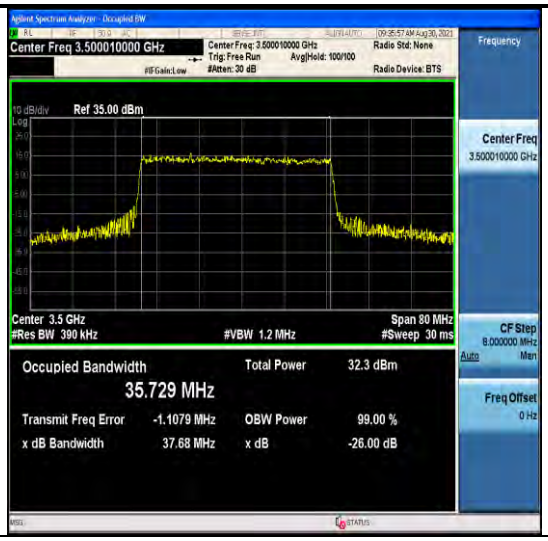

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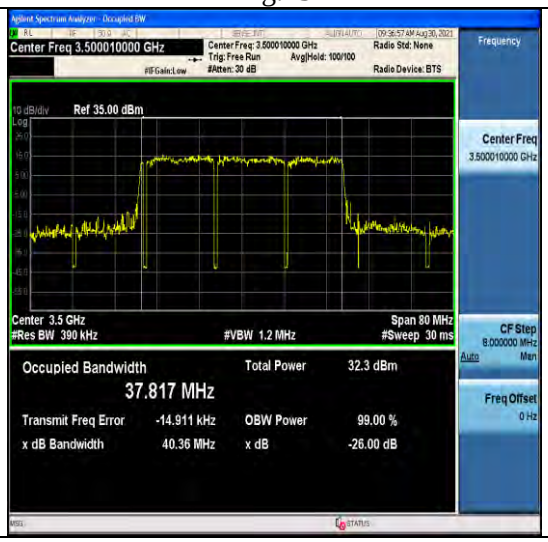

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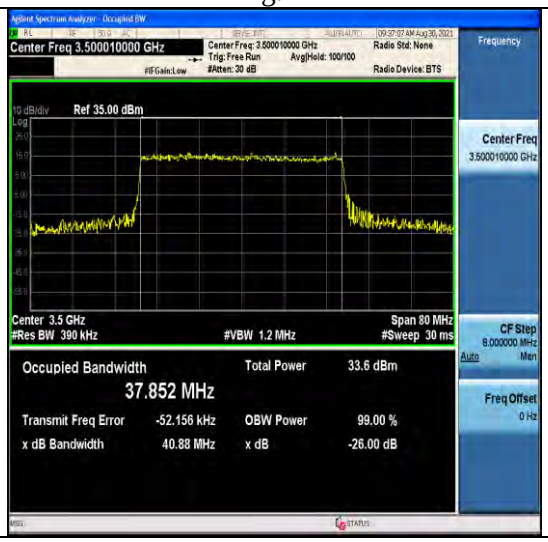

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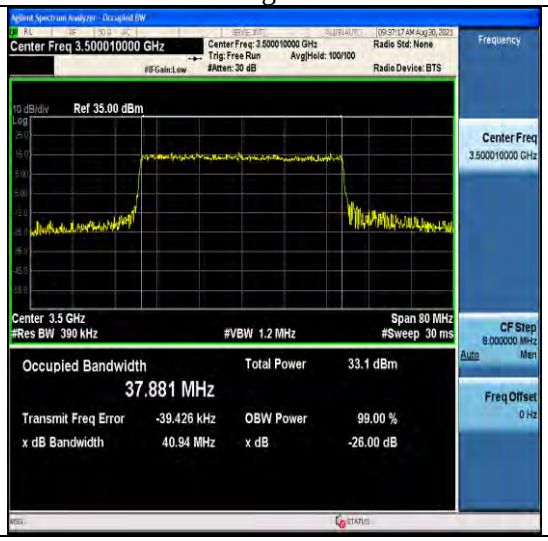

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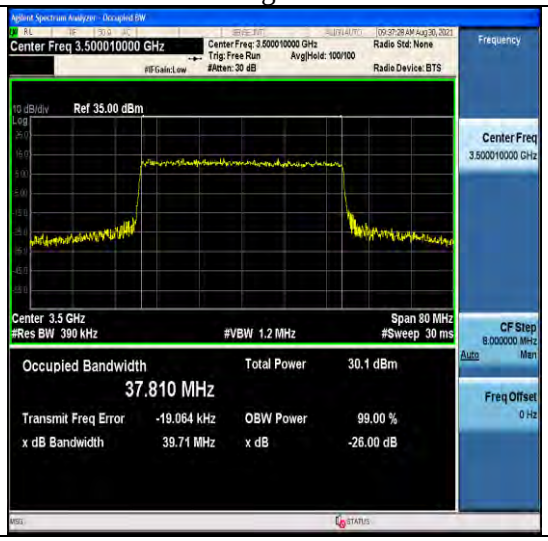

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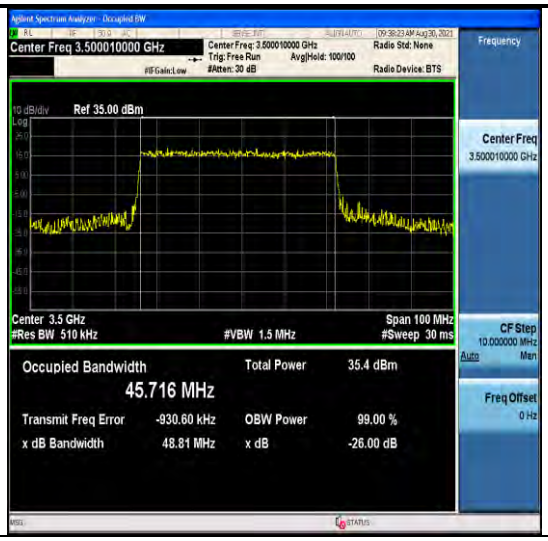

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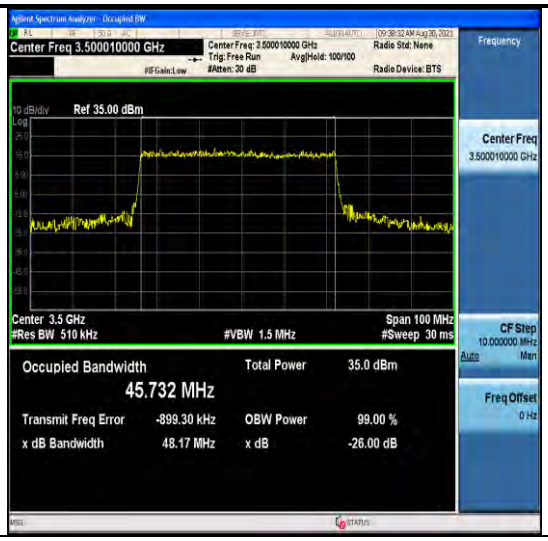
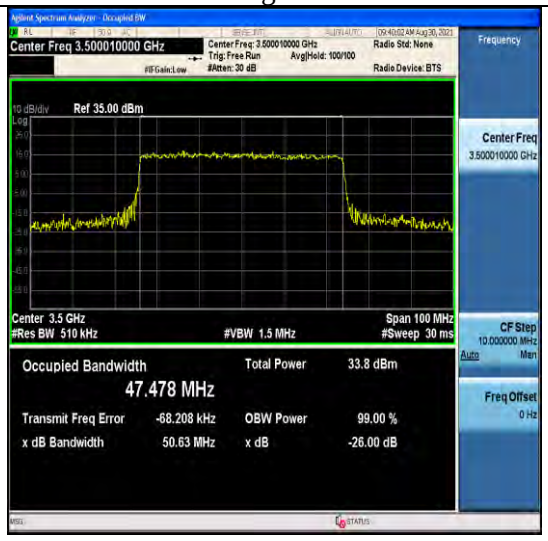


Fig.50

Fig.51

Fig.52

Fig.53



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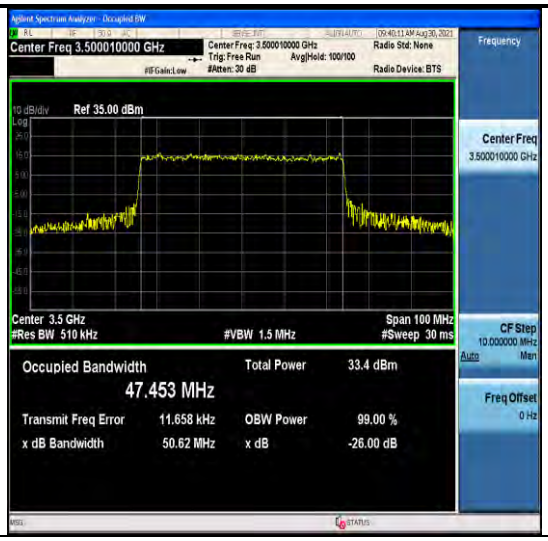

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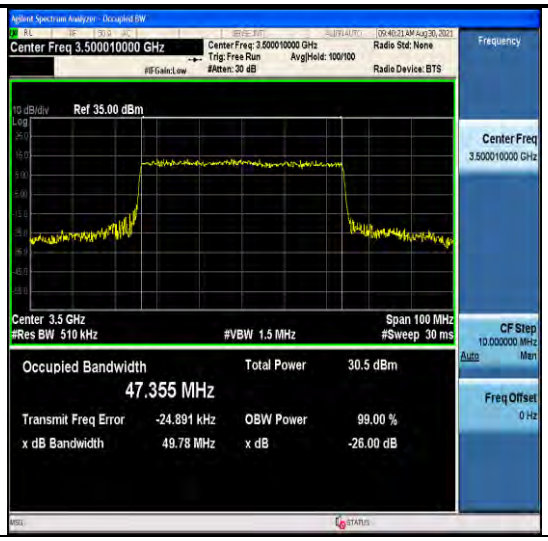
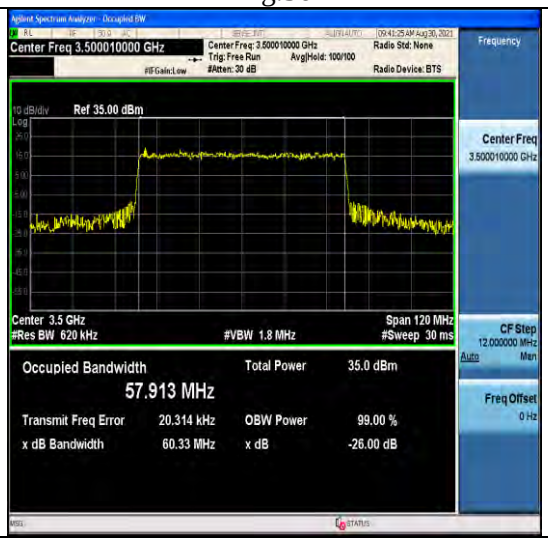


Fig.56

Fig.57



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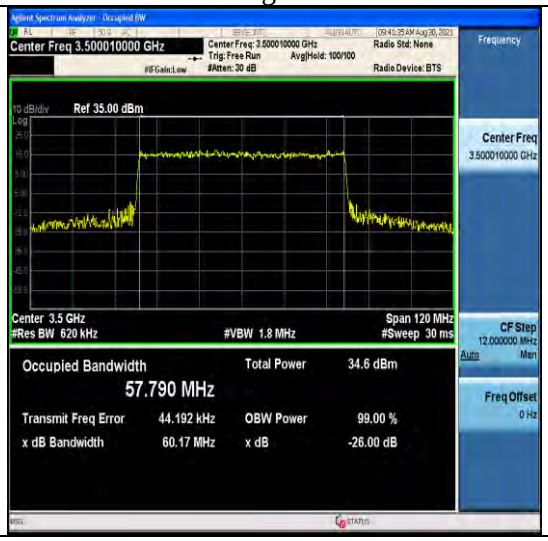
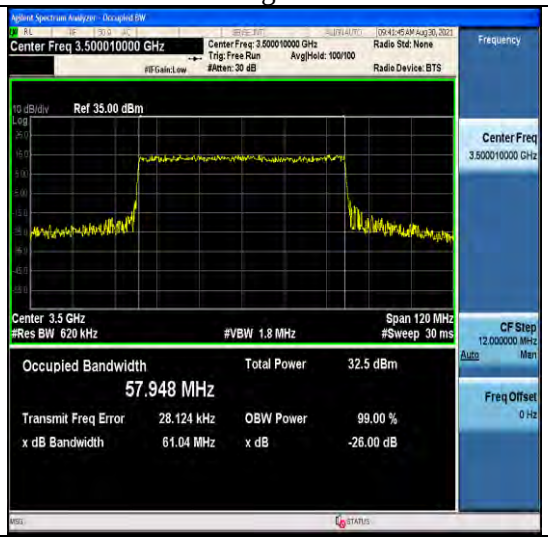


Fig.59



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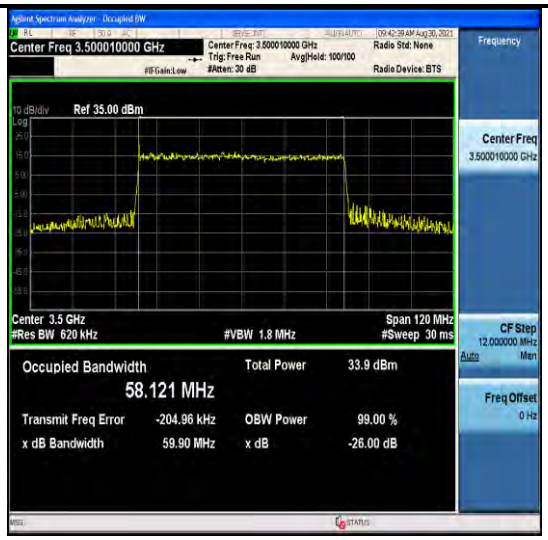

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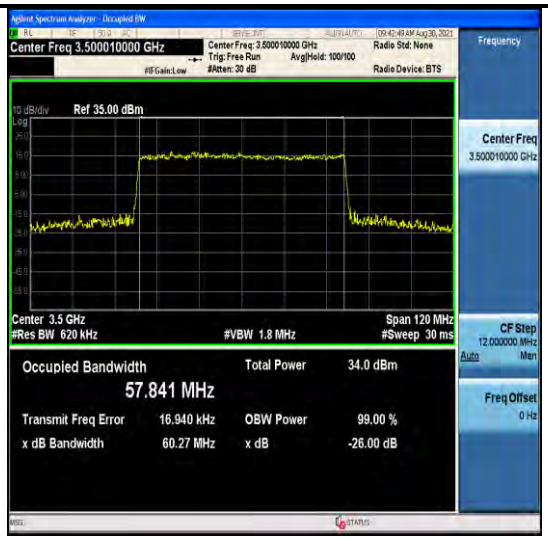
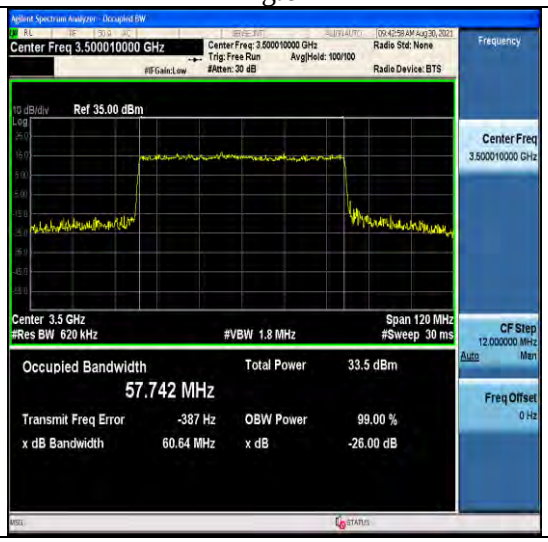


Fig.62



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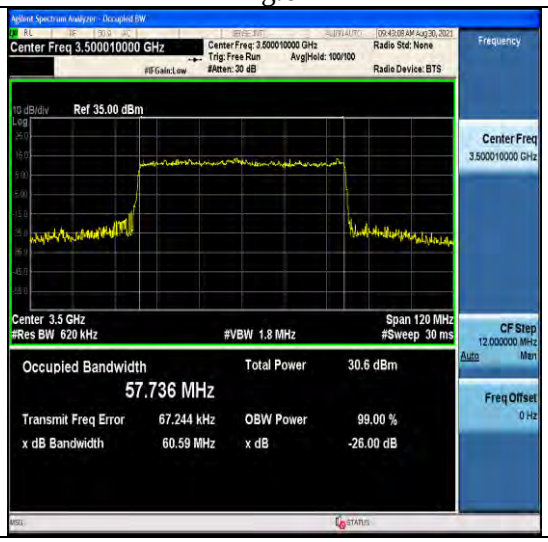

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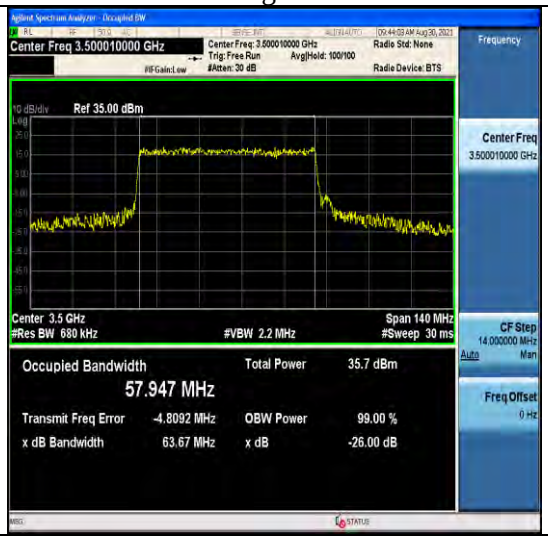

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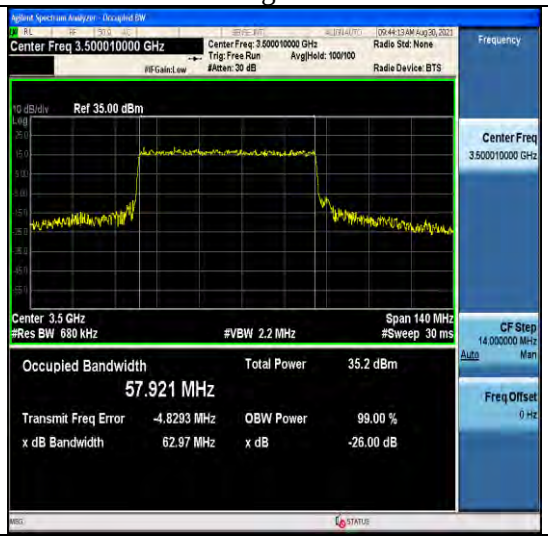

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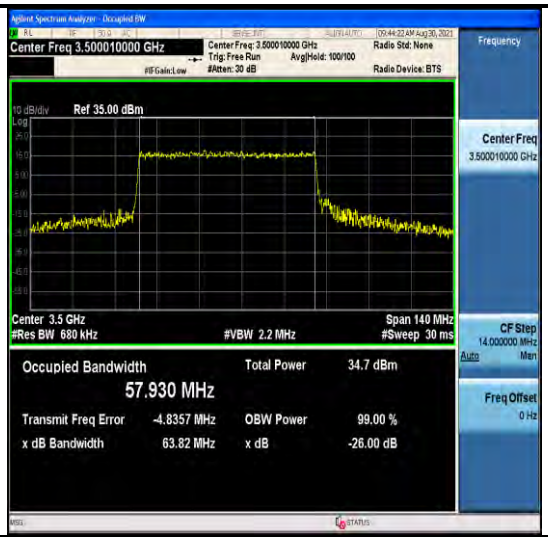
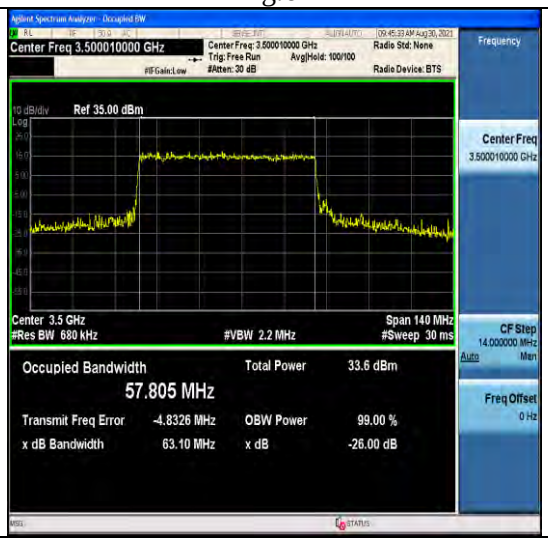


Fig.67

Fig.68



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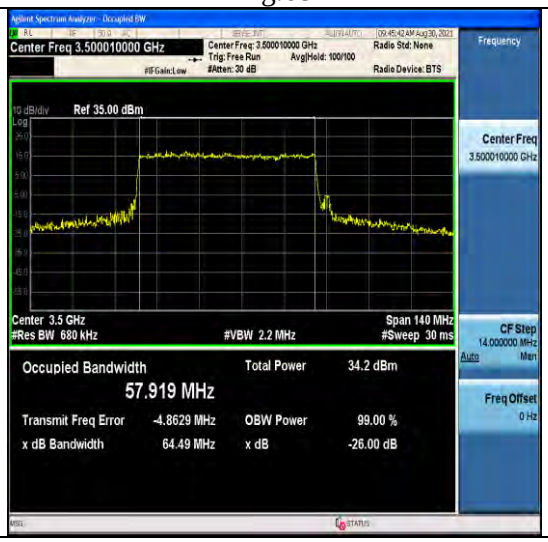


Fig.70

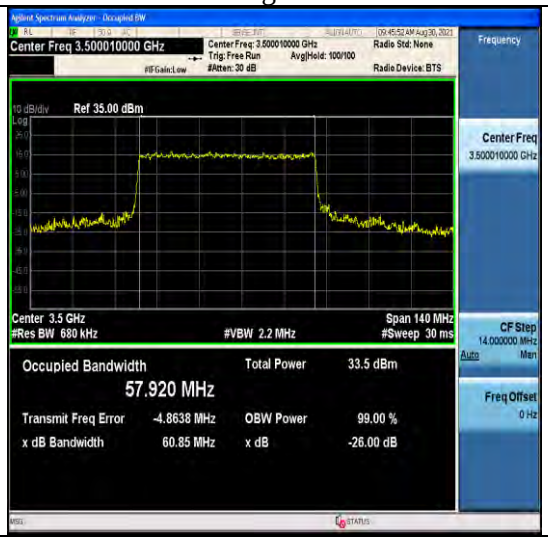
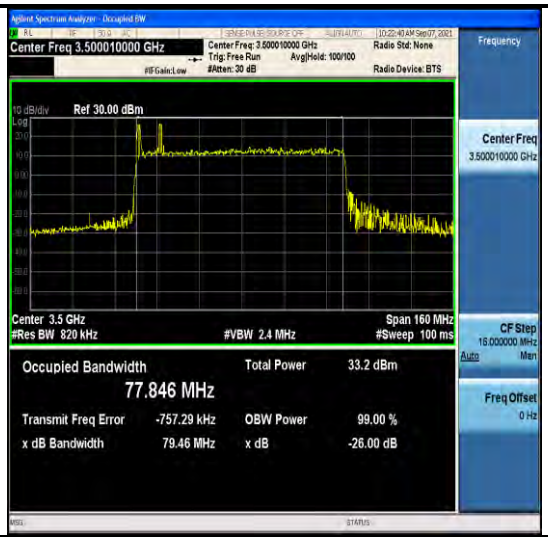


Fig.71

Fig.72



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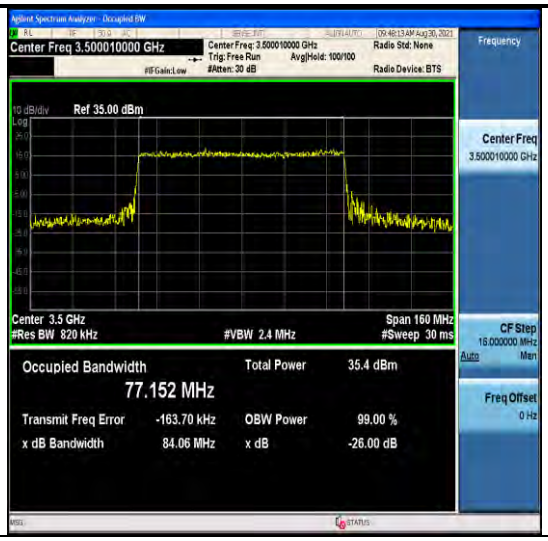

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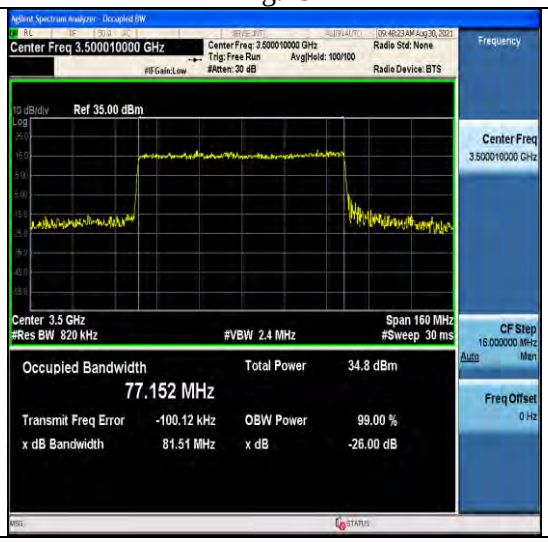
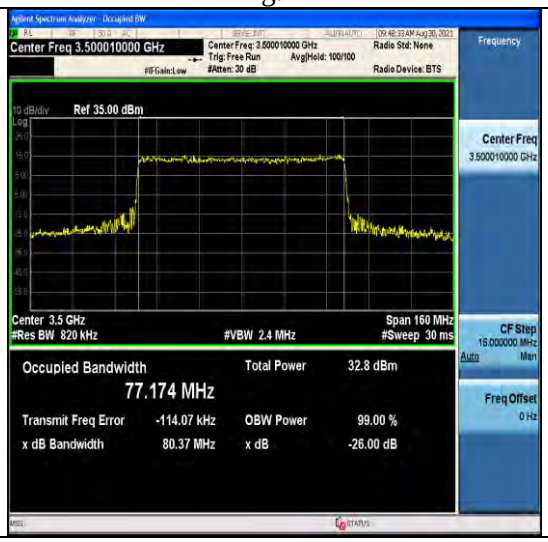


Fig.75



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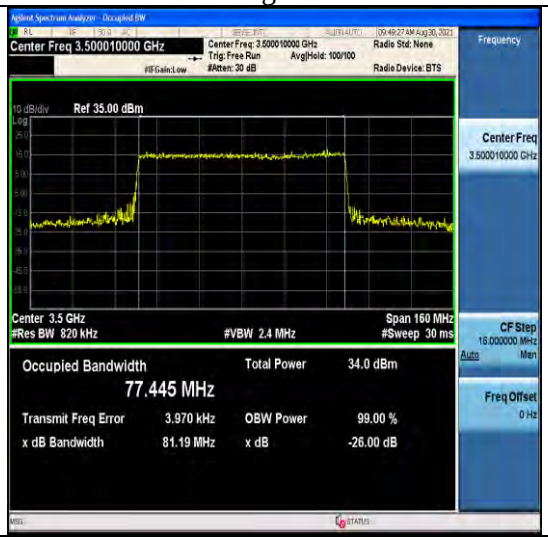


Fig.77

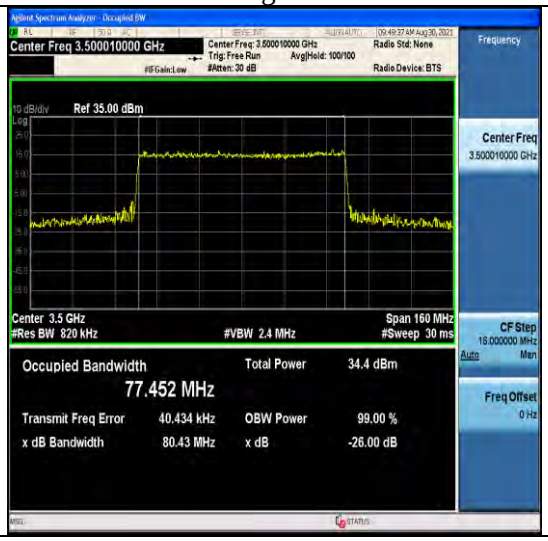


Fig.78

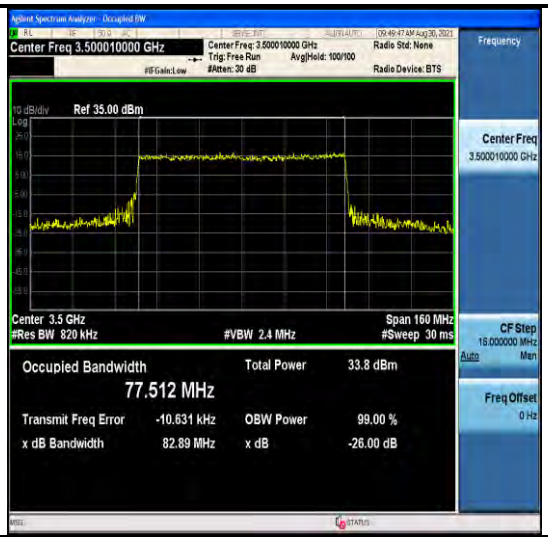


Fig.79

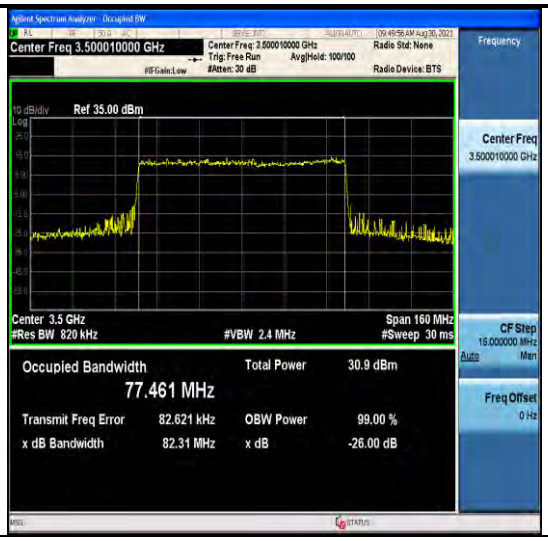


Fig.80

Fig.81

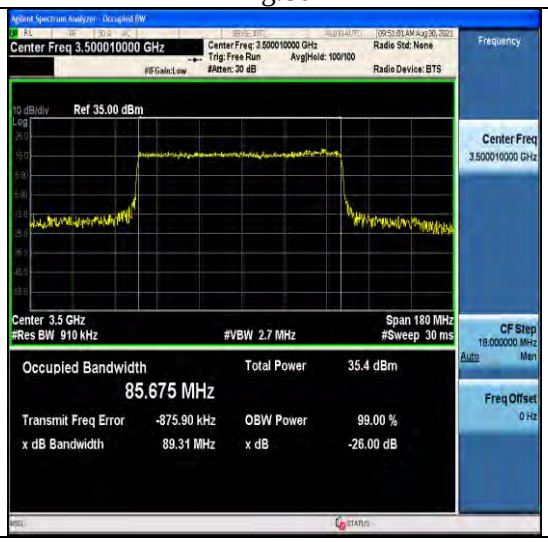


Fig.82

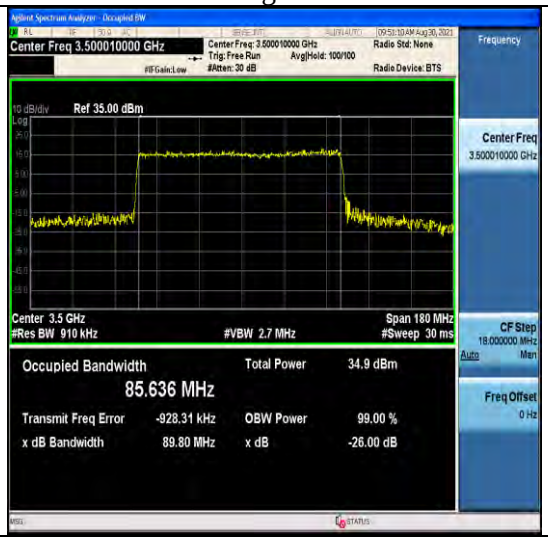


Fig.83

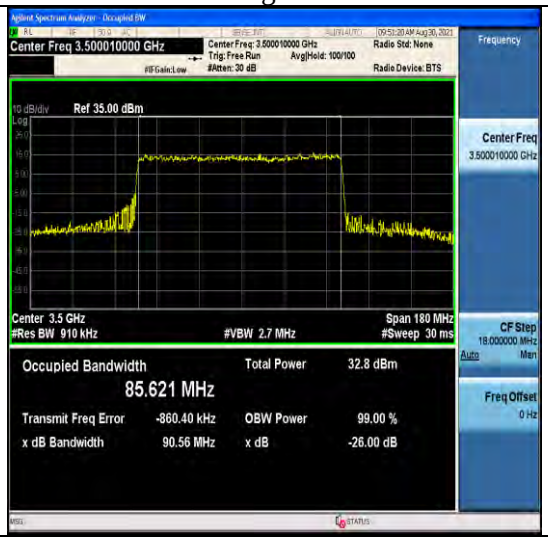


Fig.84

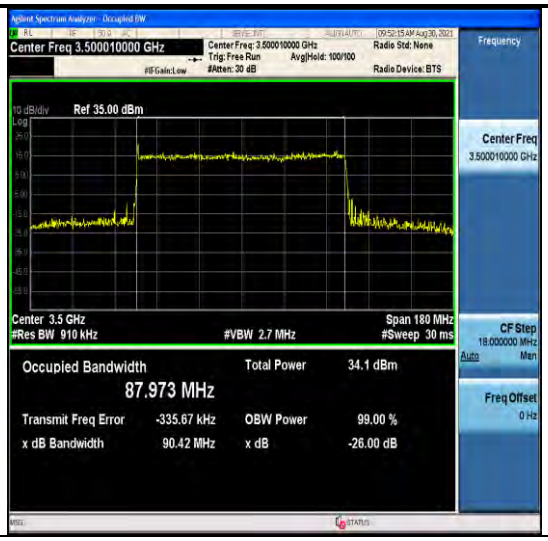


Fig.85

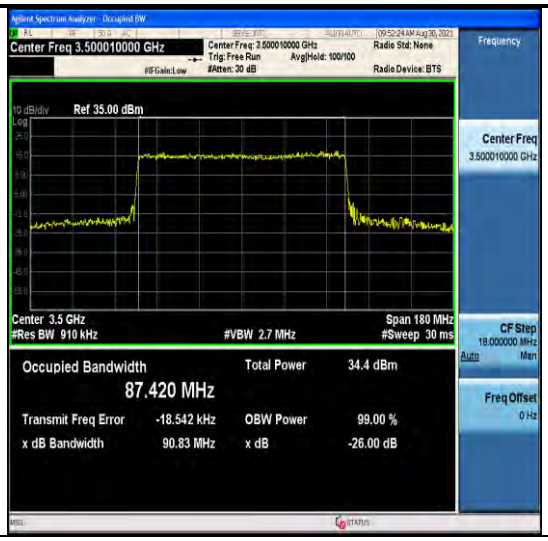


Fig.86

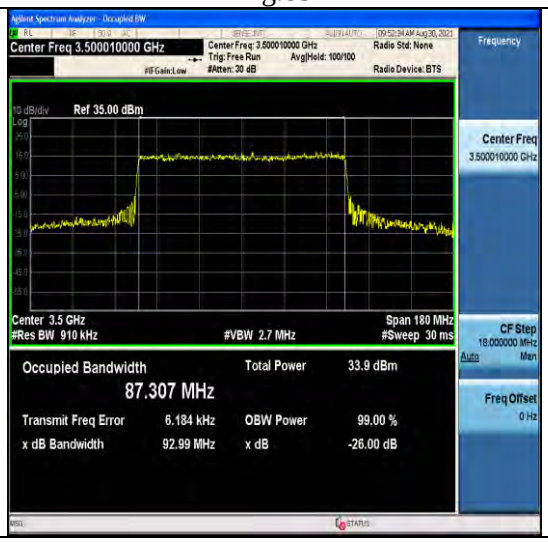


Fig.87

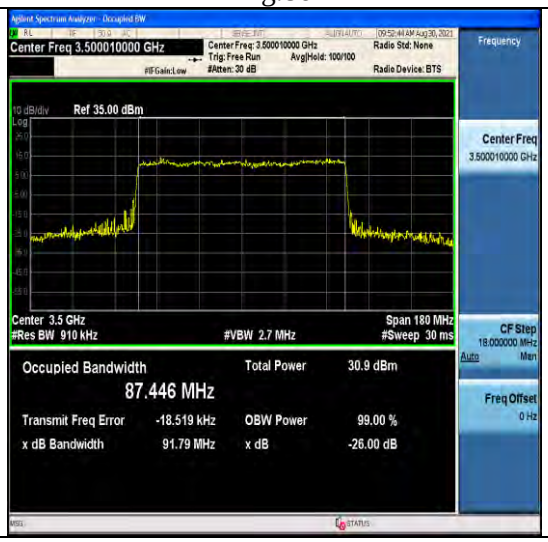


Fig.88

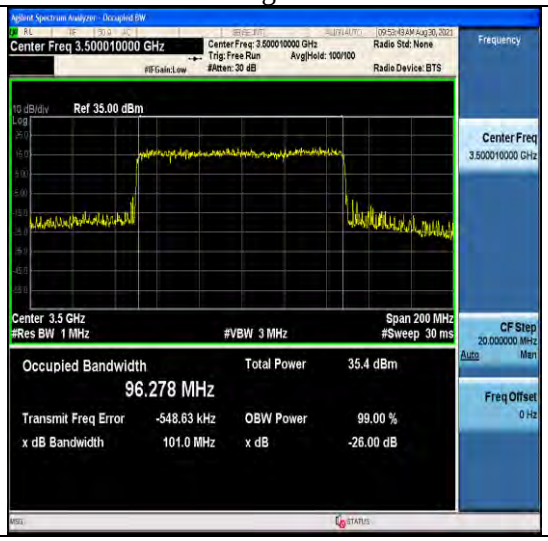


Fig.89

Fig.90

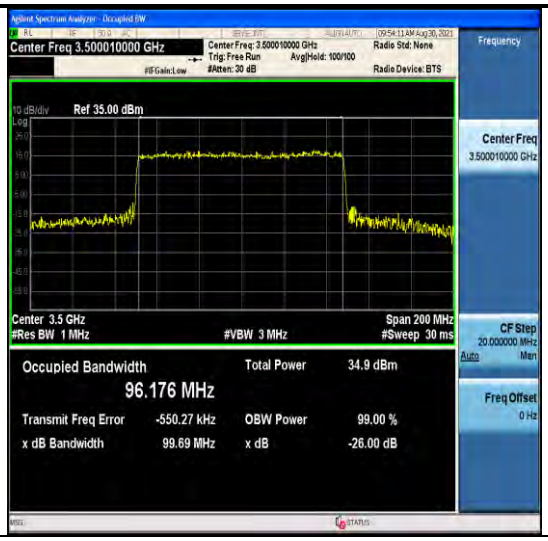


Fig.91

Fig.92

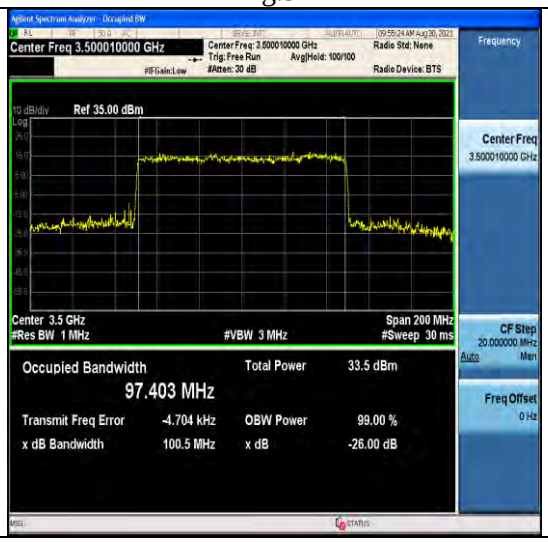


Fig.93

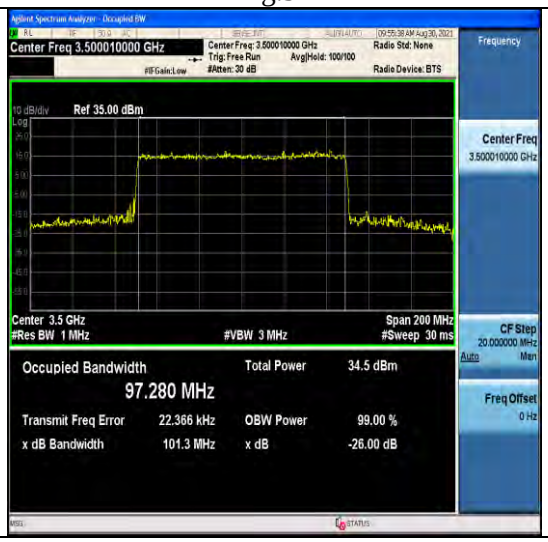


Fig.94

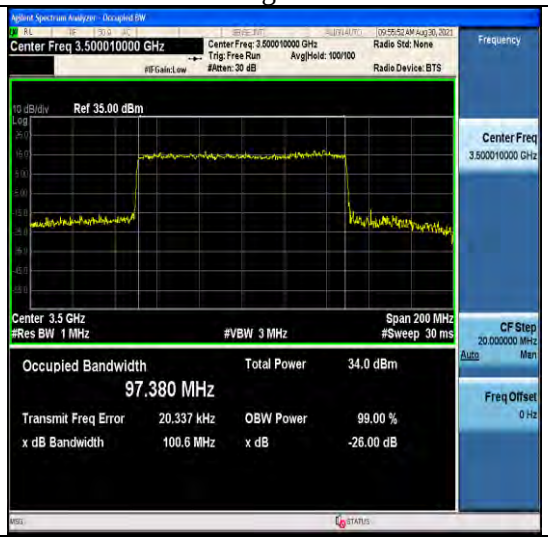


Fig.95

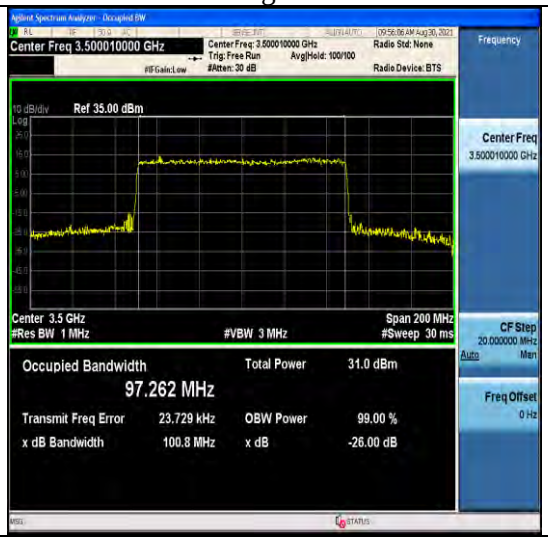


Fig.96

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	SCS	RB Config	DFT-QPSK	CP-QPSK
N78	3500.01	633334	100	30kHz	Outer_Full	Fig.1	Fig.2

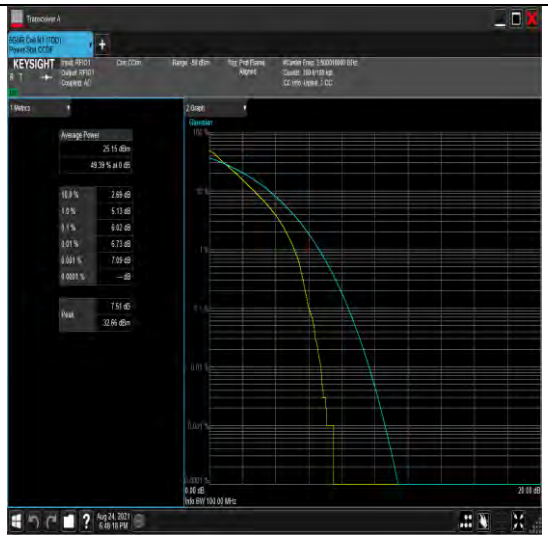
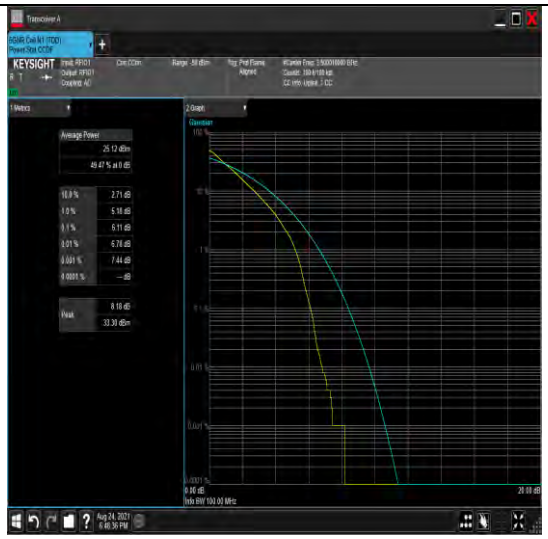
	

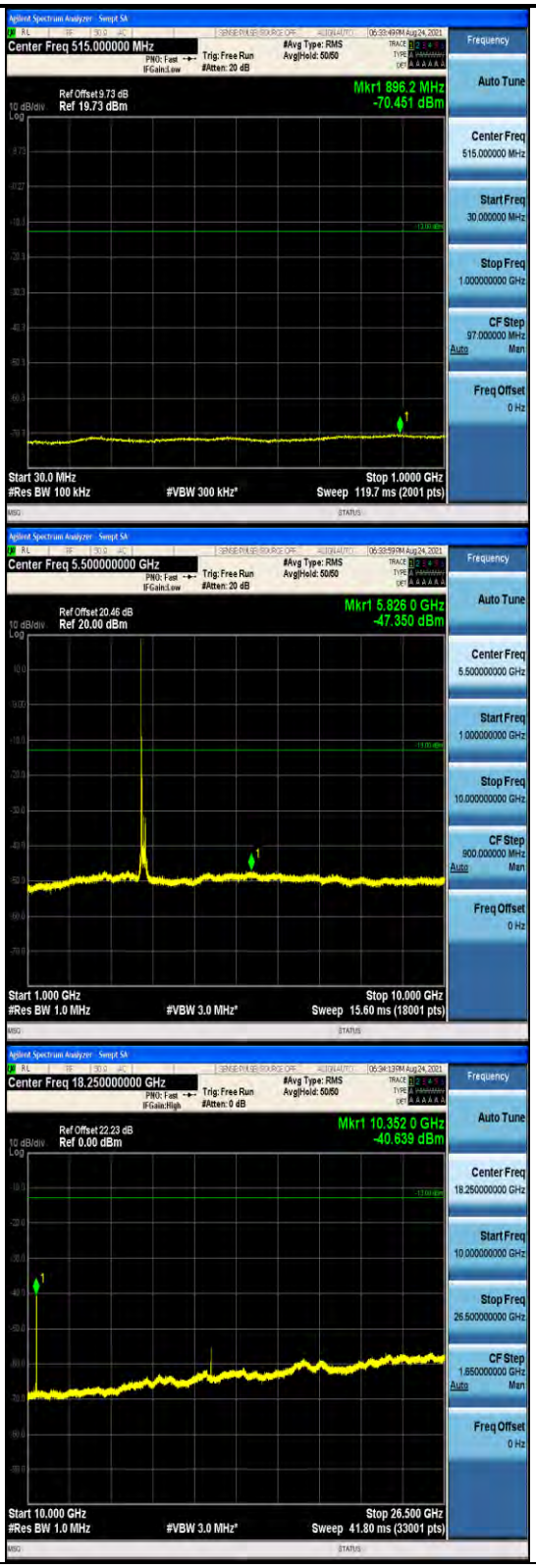
Fig.1	Fig.2

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	SCS	RB Size	RB Offset	Conducted Spurious Plot
							DFT-QPSK
N78	3500.01	633334	100	30kHz	1	0	Fig.1

MIMO:

Band	Carrier frequency (MHz)	Channel	BW	SCS	RB Size	RB Offset	Conducted Spurious Plot	
							CP-QPSK (ANT1)	CP-QPSK (ANT2)
N78	3500.01	633334	100	30kHz	1	0	Fig.2	Fig.3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Center Freq 515.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 50/50
Ref Offset 9.73 dB
10 dB/div
Ref 19.73 dBm
Mkr1 896.2 MHz
-70.451 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 1.0000 GHz
Sweep 119.7 ms (2001 pts)
Frequency
Auto Tune
Center Freq
515.000000 MHz
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz
Center Freq 5.500000000 GHz
Ref Offset 20.46 dB
Ref 20.00 dBm
Mkr1 5.826 0 GHz
-47.350 dBm
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 15.60 ms (18001 pts)
5.500000000 GHz
1.000000000 GHz
10.000000000 GHz
900.000000 MHz
Center Freq 18.250000000 GHz
Ref Offset 22.23 dB
Ref 0.00 dBm
Mkr1 10.352 0 GHz
-40.639 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.80 ms (33001 pts)
18.250000000 GHz
10.000000000 GHz
26.500000000 GHz
1.650000000 GHz

Fig.1

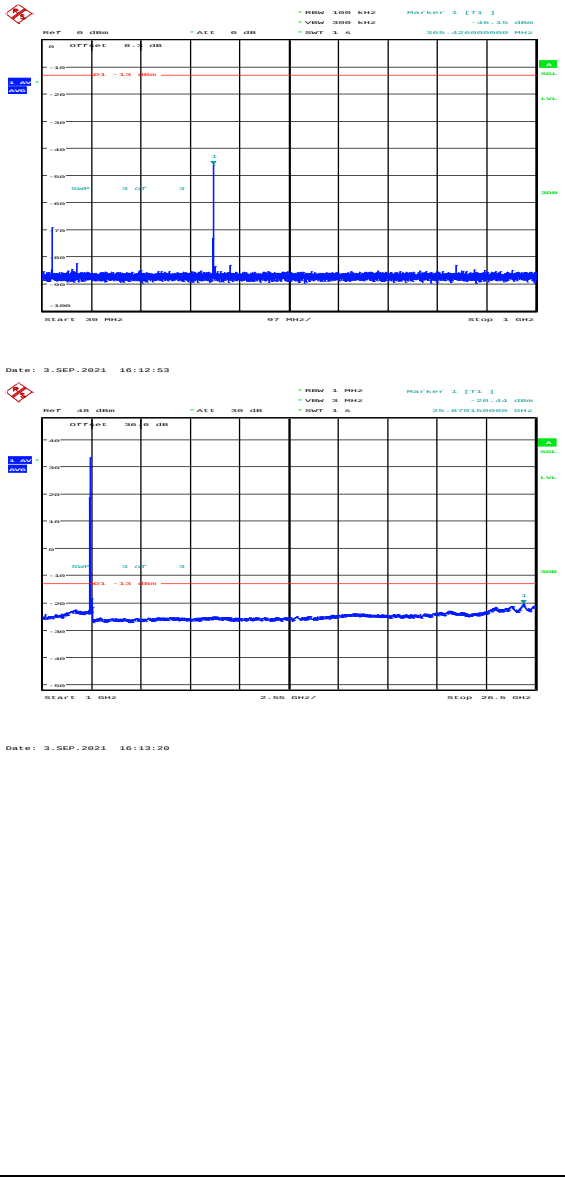

Date: 3.SEP.2021 16:12:53
Date: 3.SEP.2021 16:13:20

Fig.2

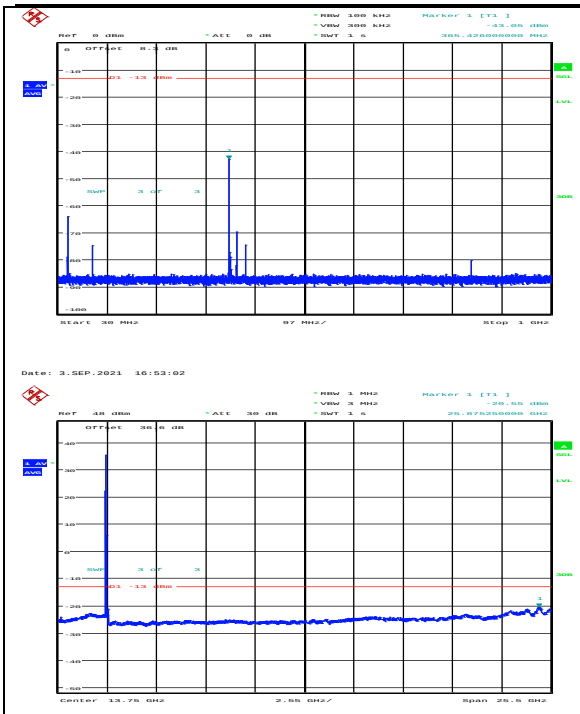

RBW 100 kHz
VBW 300 kHz
SWT 1 s
Marker 1 [T1]
-43.85 dBm
355.426666666 MHz
Ref 0 dBm
Att 0 dB
OFFset 8.3 dB
D1 -13 dBm
Start 30 MHz
97 MHz/
Stop 1 GHz
Date: 3.SEP.2021 16:53:02
RBW 1 MHz
VBW 3 MHz
SWT 1 s
Marker 1 [T1]
-28.55 dBm
25.875258889 GHz
Ref 48 dBm
Att 30 dB
OFFset 38.6 dB
D1 -13 dBm
Center 13.75 GHz
2.55 GHz/
Span 25.5 GHz
Date: 3.SEP.2021 16:53:24

Fig.3

6 Band Edges Compliance

Band	Carrier frequency (MHz)	Channel	BW	SCS	RB Config Outer_Full	Band Edges Plot	
						DFT-QPSK	CP-QPSK
N78	3455.01	630334	10	30kHz	Edge_1RB_Left	Fig.1	Fig.5
					Outer_Full	Fig.2	Fig.6
	3545.01	636334			Edge_1RB_Right	Fig.3	Fig.7
					Outer_Full	Fig.4	Fig.8
	3457.5	630500	15		Edge_1RB_Left	Fig.9	Fig.13
					Outer_Full	Fig.10	Fig.14
	3542.49	636166			Edge_1RB_Right	Fig.11	Fig.15
					Outer_Full	Fig.12	Fig.16
	3460.02	630668	20		Edge_1RB_Left	Fig.17	Fig.21
					Outer_Full	Fig.18	Fig.22
	3540	636000			Edge_1RB_Right	Fig.19	Fig.23
					Outer_Full	Fig.20	Fig.24
	3462.51	630834	25		Edge_1RB_Left	Fig.25	Fig.29
					Outer_Full	Fig.26	Fig.30
	3537.51	635834			Edge_1RB_Right	Fig.27	Fig.31
					Outer_Full	Fig.28	Fig.32
	3465	631000	30		Edge_1RB_Left	Fig.33	Fig.37
					Outer_Full	Fig.34	Fig.38
	3534.99	635666			Edge_1RB_Right	Fig.35	Fig.39
					Outer_Full	Fig.36	Fig.40
	3470.01	631334	40		Edge_1RB_Left	Fig.41	Fig.45
					Outer_Full	Fig.42	Fig.46
	3530.01	635334			Edge_1RB_Right	Fig.43	Fig.47
					Outer_Full	Fig.44	Fig.48
	3475.02	631668	50		Edge_1RB_Left	Fig.49	Fig.53
					Outer_Full	Fig.50	Fig.54
	3525	635000			Edge_1RB_Right	Fig.51	Fig.55
					Outer_Full	Fig.52	Fig.56
	3480	632000	60		Edge_1RB_Left	Fig.57	Fig.61
					Outer_Full	Fig.58	Fig.62
	3519.99	634666			Edge_1RB_Right	Fig.59	Fig.63
					Outer_Full	Fig.60	Fig.64
	3485.01	632334	70		Edge_1RB_Left	Fig.65	Fig.69
					Outer_Full	Fig.66	Fig.70
	3515.01	634334			Edge_1RB_Right	Fig.67	Fig.71
					Outer_Full	Fig.68	Fig.72
	3490.02	632668	80		Edge_1RB_Left	Fig.73	Fig.77
					Outer_Full	Fig.74	Fig.78
	3510	634000			Edge_1RB_Right	Fig.75	Fig.79
					Outer_Full	Fig.76	Fig.80
	3495	633000	90		Edge_1RB_Left	Fig.81	Fig.85

					Outer_Full	Fig.82	Fig.86
	3504.99	633666			Edge_1RB_Right	Fig.83	Fig.87
					Outer_Full	Fig.84	Fig.88

MIMO:

Band	Carrier frequency (MHz)	Channel	BW	SCS	RB Config Outer_Full	Band Edges Plot	
						CP-QPSK (ANT1)	CP-QPSK (ANT2)
N78	3455.01	630334	10	30kHz	Edge_1RB_Left	Fig.89	Fig.93
					Outer_Full	Fig.90	Fig.94
	3545.01	636334			Edge_1RB_Right	Fig.91	Fig.95
					Outer_Full	Fig92	Fig.96
	3457.5	630500	15		Edge_1RB_Left	Fig.97	Fig.101
					Outer_Full	Fig.98	Fig.102
	3542.49	636166			Edge_1RB_Right	Fig.99	Fig.103
					Outer_Full	Fig.100	Fig.104
	3460.02	630668	20		Edge_1RB_Left	Fig.105	Fig.109
					Outer_Full	Fig.106	Fig.110
	3540	636000			Edge_1RB_Right	Fig.107	Fig.111
					Outer_Full	Fig.108	Fig.112
	3462.51	630834	25		Edge_1RB_Left	Fig.113	Fig.117
					Outer_Full	Fig.114	Fig.118
	3537.51	635834			Edge_1RB_Right	Fig.115	Fig.119
					Outer_Full	Fig.116	Fig.120
	3465	631000	30		Edge_1RB_Left	Fig.121	Fig.125
					Outer_Full	Fig.122	Fig.126
	3534.99	635666			Edge_1RB_Right	Fig.123	Fig.127
					Outer_Full	Fig.124	Fig.128
	3470.01	631334	40		Edge_1RB_Left	Fig.129	Fig.133
					Outer_Full	Fig.130	Fig.134
	3530.01	635334			Edge_1RB_Right	Fig.131	Fig.135
					Outer_Full	Fig.132	Fig.136
	3475.02	631668	50		Edge_1RB_Left	Fig.137	Fig.141
					Outer_Full	Fig.138	Fig.142
	3525	635000			Edge_1RB_Right	Fig.139	Fig.143
					Outer_Full	Fig.140	Fig.144
	3480	632000	60		Edge_1RB_Left	Fig.145	Fig.149
					Outer_Full	Fig.146	Fig.150
	3519.99	634666			Edge_1RB_Right	Fig.147	Fig.151
					Outer_Full	Fig.148	Fig.152
	3485.01	632334	70		Edge_1RB_Left	Fig.153	Fig.157
					Outer_Full	Fig.154	Fig.158
	3515.01	634334			Edge_1RB_Right	Fig.155	Fig.159
					Outer_Full	Fig.156	Fig.160
	3490.02	632668	80		Edge_1RB_Left	Fig.161	Fig.165
					Outer_Full	Fig.162	Fig.166

	3510	634000			Edge_1RB_Right	Fig.163	Fig.167
					Outer_Full	Fig.164	Fig.168
	3495	633000	90		Edge_1RB_Left	Fig.169	Fig.173
					Outer_Full	Fig.170	Fig.174
	3504.99	633666			Edge_1RB_Right	Fig.171	Fig.175
					Outer_Full	Fig.172	Fig.176

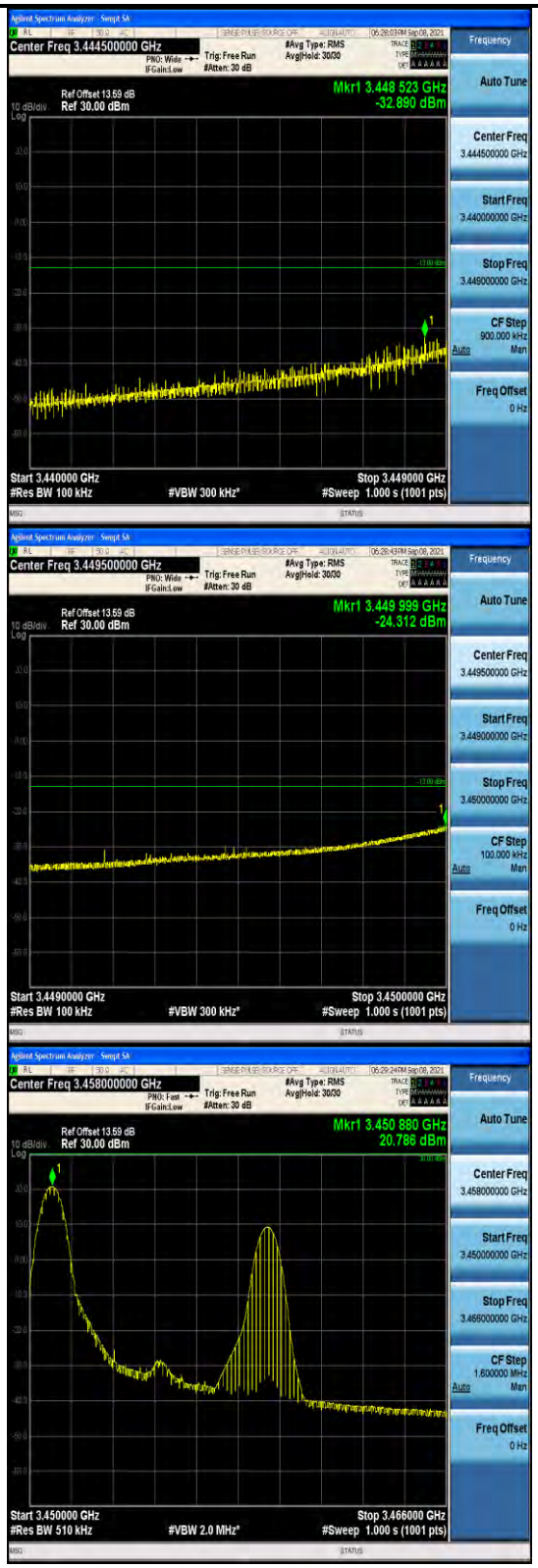
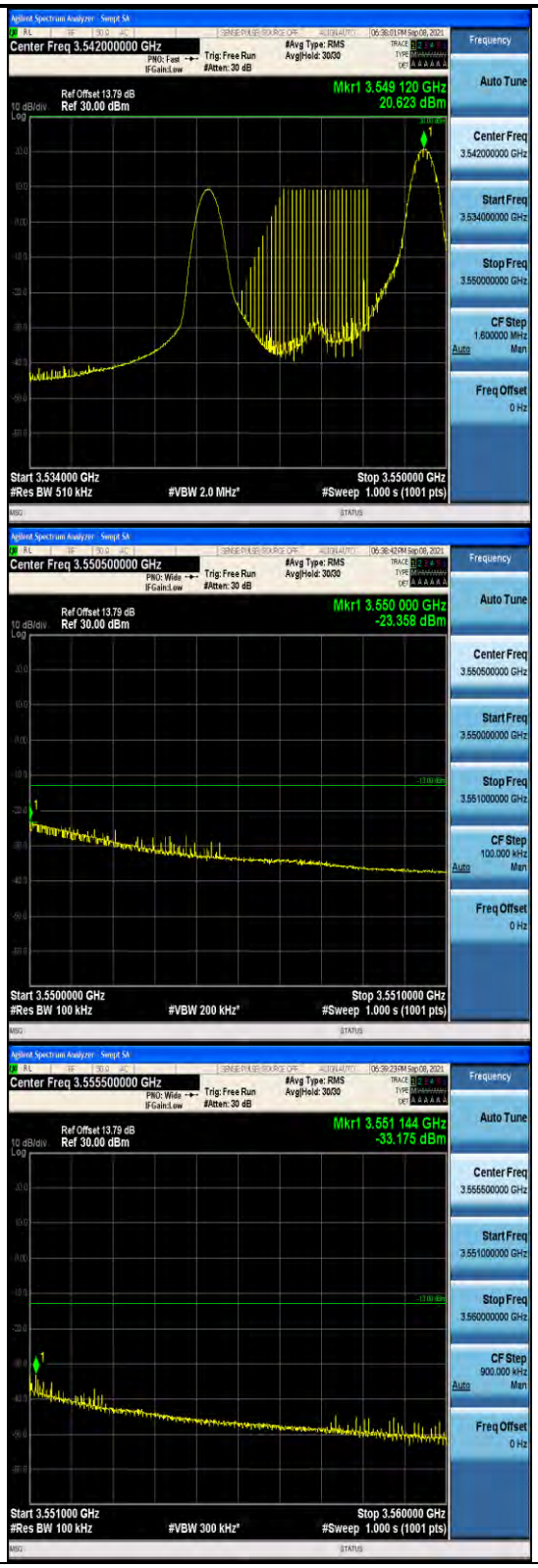

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 523 GHz
-32.890 dBm
Start 3.440000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 999 GHz
-24.312 dBm
Start 3.4490000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.458000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.450 880 GHz
20.786 dBm
Start 3.450000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.466000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.458000000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.466000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.1

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 586 GHz
-34.816 dBm
Start 3.440000 GHz
#Res BW 91 kHz
#VBW 270 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 772 GHz
-32.069 dBm
Start 3.4490000 GHz
#Res BW 91 kHz
#VBW 270 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.459320000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.457 214 GHz
9.778 dBm
Start 3.450000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.468640 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.459320000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.468640000 GHz
CF Step
1.864000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.2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Center Freq 3.542000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.549 120 GHz
20.623 dBm
Start 3.534000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.550000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.542000000 GHz
Start Freq
3.534000000 GHz
Stop Freq
3.550000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.550 000 GHz
-23.358 dBm
Start 3.5500000 GHz
#Res BW 100 kHz
#VBW 200 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.551 144 GHz
-33.175 dBm
Start 3.551000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.3

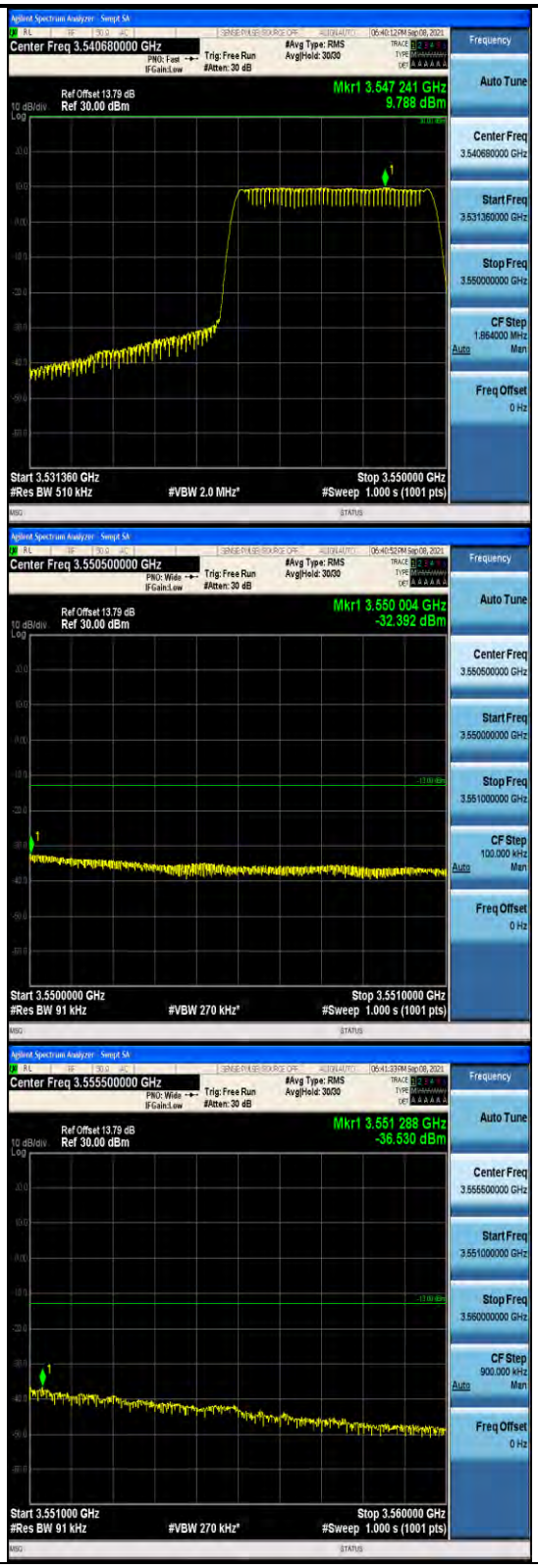

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.540680000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.547 241 GHz
9.788 dBm
Start 3.531360 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.550000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.540680000 GHz
Start Freq
3.531360000 GHz
Stop Freq
3.550000000 GHz
CF Step
1.864000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.550 004 GHz
-32.392 dBm
Start 3.5500000 GHz
#Res BW 91 kHz
#VBW 270 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.551 288 GHz
-36.530 dBm
Start 3.551000 GHz
#Res BW 91 kHz
#VBW 270 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.4

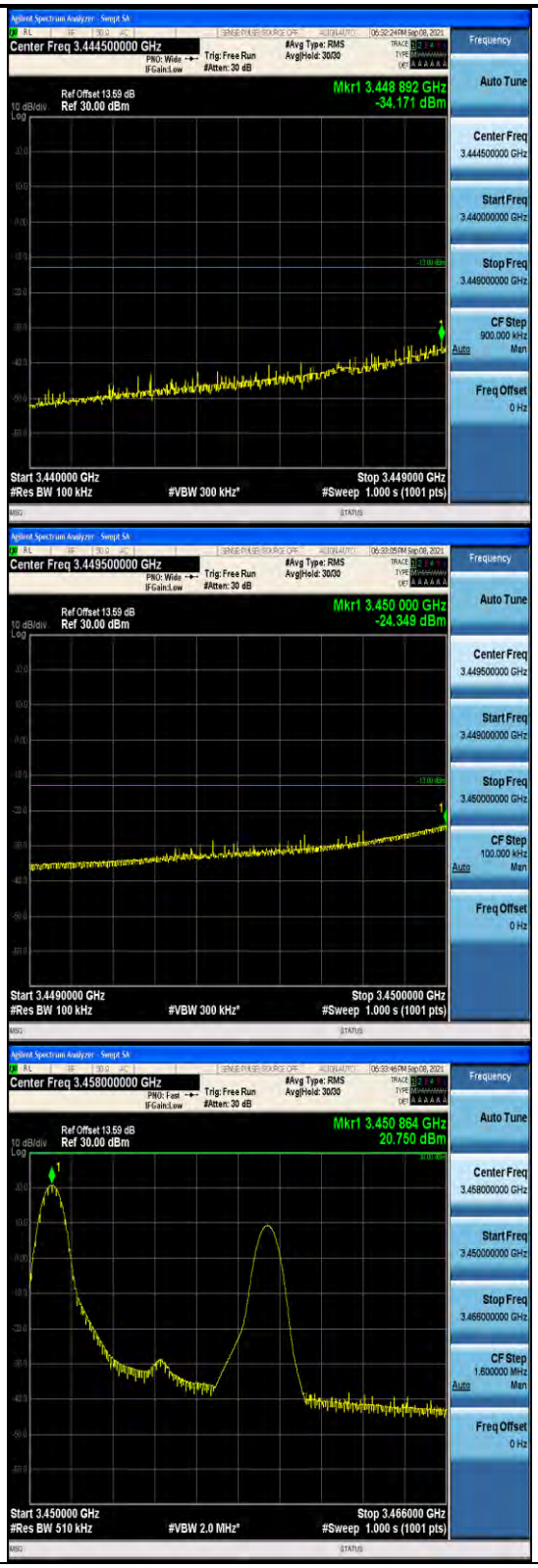

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 892 GHz
-34.171 dBm
Start 3.440000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.450 000 GHz
-24.349 dBm
Start 3.4490000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.458000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.450 864 GHz
20.750 dBm
Start 3.450000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.466000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.458000000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.466000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.5

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 586 GHz
-34.770 dBm
Start 3.440000 GHz
#Res BW 91 kHz
#VBW 270 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 927 GHz
-32.281 dBm
Start 3.4490000 GHz
#Res BW 91 kHz
#VBW 270 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.459320000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.457 288 GHz
9.780 dBm
Start 3.450000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.468840 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.459320000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.468840000 GHz
CF Step
1.884000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.6

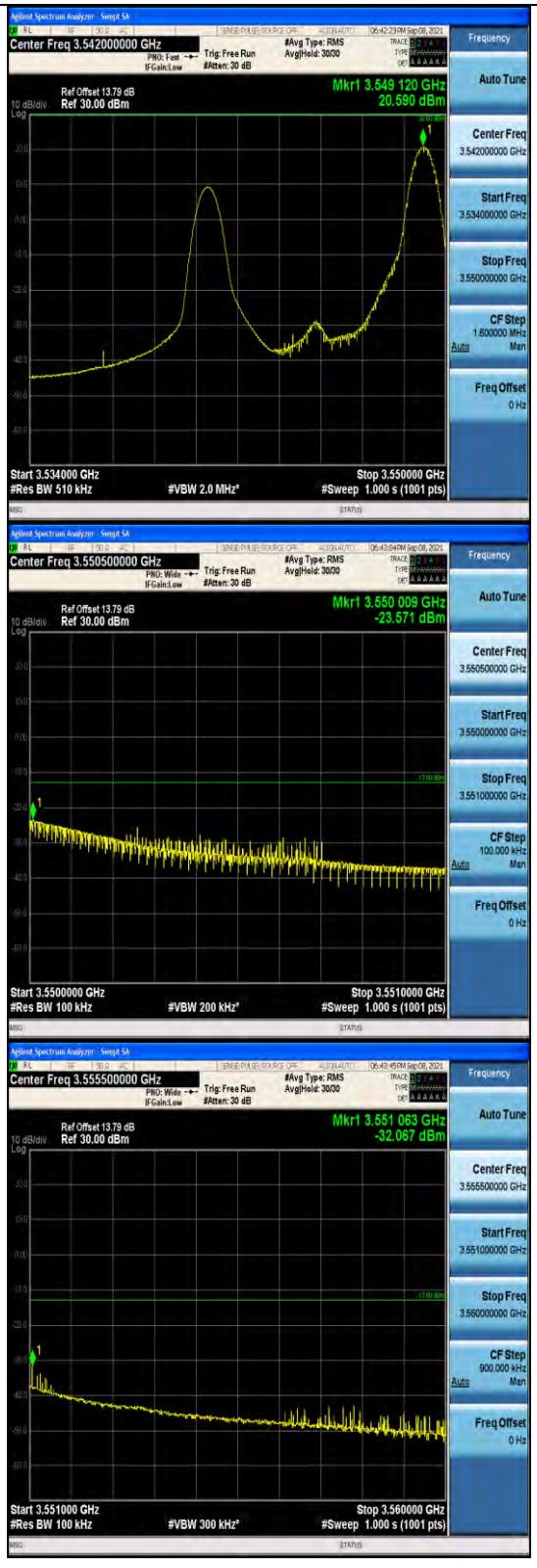

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.542000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.549 120 GHz
20.590 dBm
Start 3.534000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.550000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.542000000 GHz
Start Freq
3.534000000 GHz
Stop Freq
3.550000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.550 009 GHz
-23.571 dBm
Start 3.5500000 GHz
#Res BW 100 kHz
#VBW 200 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.551 063 GHz
-32.067 dBm
Start 3.551000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.7

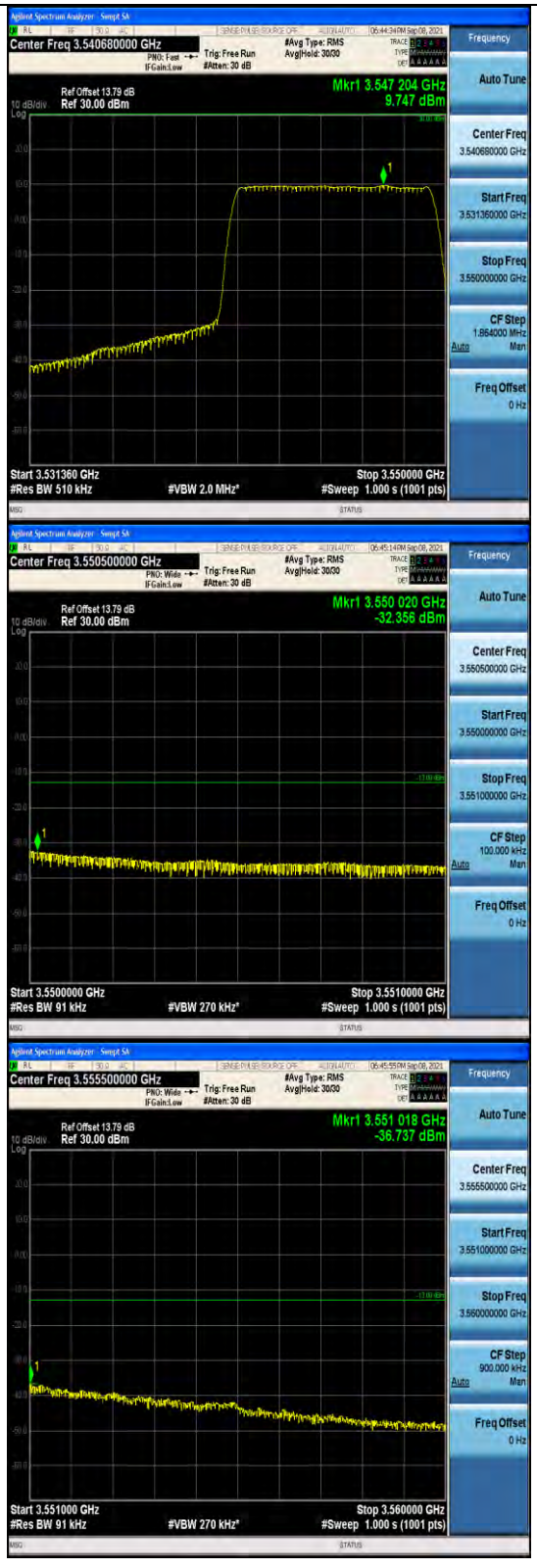

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.540680000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.547 204 GHz
9.747 dBm
Start 3.531360 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.550000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.540680000 GHz
Start Freq
3.531360000 GHz
Stop Freq
3.550000000 GHz
CF Step
1.864000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.550 020 GHz
-32.358 dBm
Start 3.5500000 GHz
#Res BW 91 kHz
#VBW 270 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.551 018 GHz
-36.737 dBm
Start 3.551000 GHz
#Res BW 91 kHz
#VBW 270 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.8

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div
Ref 30.00 dBm
Mkr1 3.448 748 GHz
-34.608 dBm
Start 3.440000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div
Ref 30.00 dBm
Mkr1 3.449 999 GHz
-22.017 dBm
Start 3.4490000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.458000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div
Ref 30.00 dBm
Mkr1 3.450 848 GHz
18.566 dBm
Start 3.450000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.466000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.458000000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.466000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.9

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div
Ref 30.00 dBm
Mkr1 3.448 892 GHz
-34.955 dBm
Start 3.440000 GHz
#Res BW 150 kHz
#VBW 390 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div
Ref 30.00 dBm
Mkr1 3.449 992 GHz
-32.453 dBm
Start 3.4490000 GHz
#Res BW 150 kHz
#VBW 390 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.461480000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div
Ref 30.00 dBm
Mkr1 3.459 069 GHz
9.530 dBm
Start 3.45000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.47296 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.461480000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.472960000 GHz
CF Step
2.296000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.10

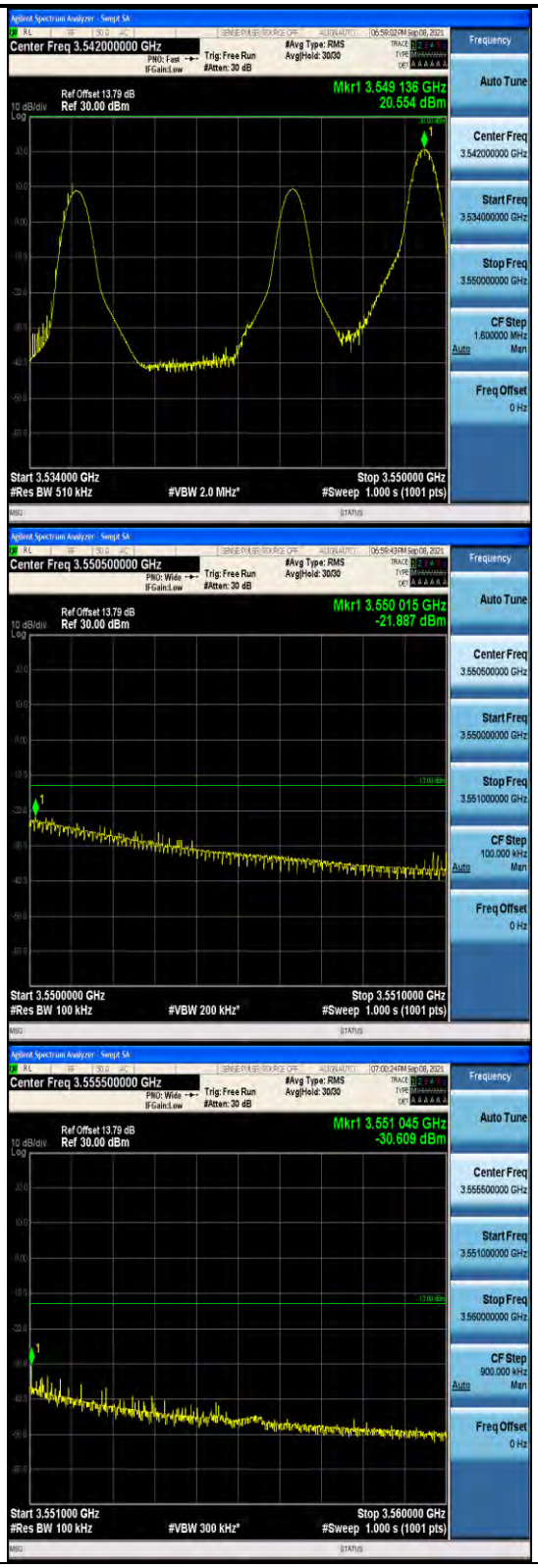

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.542000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.549 136 GHz
20.554 dBm
Start 3.534000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.550000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.542000000 GHz
Start Freq
3.534000000 GHz
Stop Freq
3.550000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.550 015 GHz
-21.887 dBm
Start 3.5500000 GHz
#Res BW 100 kHz
#VBW 200 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.551 045 GHz
-30.609 dBm
Start 3.551000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.11

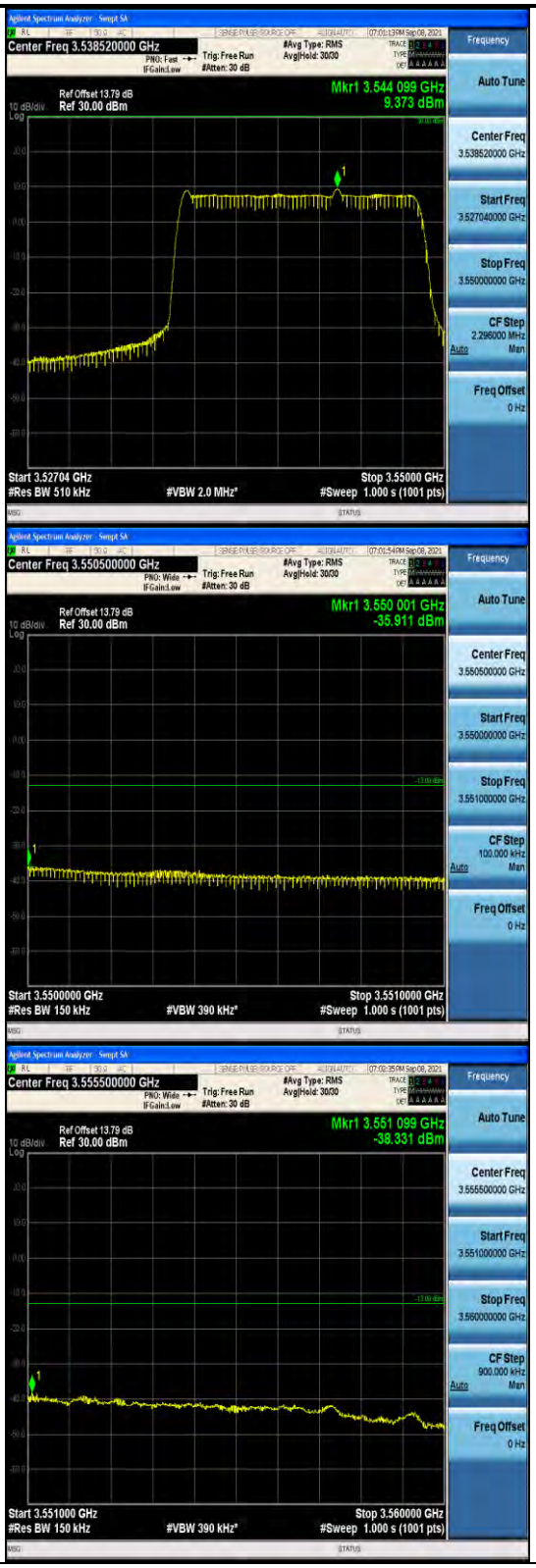

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.538520000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.544 099 GHz
9.373 dBm
Start 3.52704 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.55000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.538520000 GHz
Start Freq
3.527040000 GHz
Stop Freq
3.550000000 GHz
CF Step
2.296000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.550 001 GHz
-35.911 dBm
Start 3.5500000 GHz
#Res BW 150 kHz
#VBW 390 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.551 099 GHz
-38.331 dBm
Start 3.551000 GHz
#Res BW 150 kHz
#VBW 390 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.12

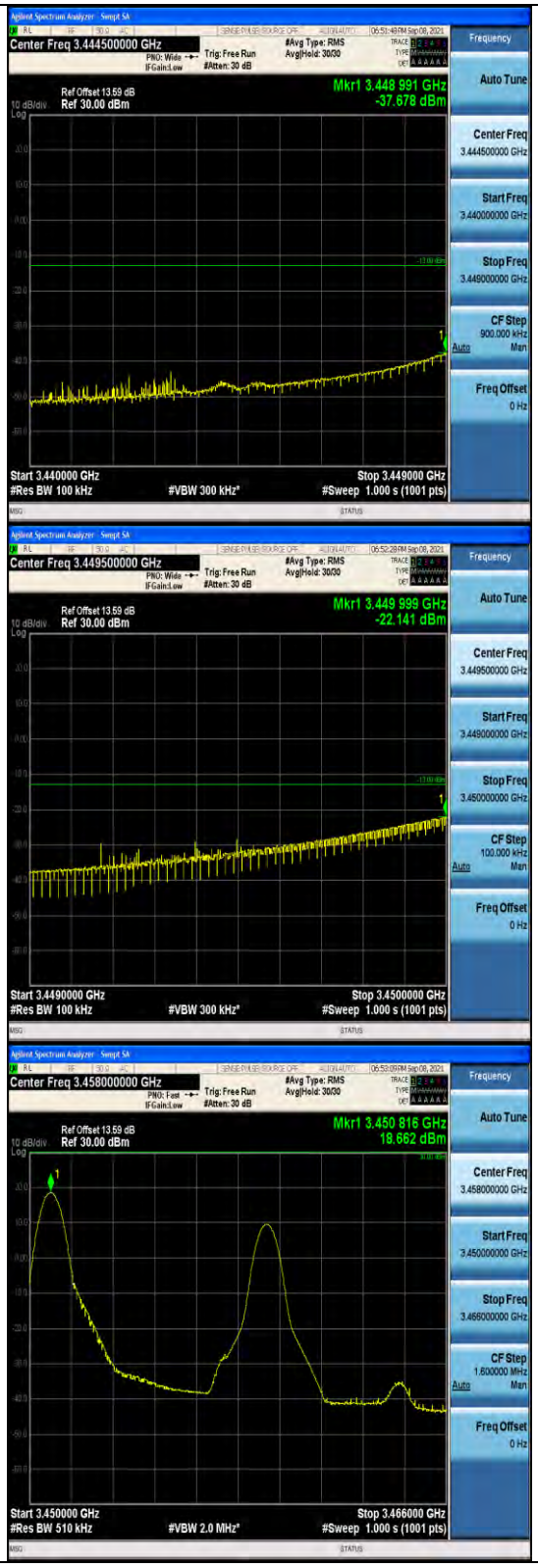

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 991 GHz
-37.678 dBm
Start 3.440000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 999 GHz
-22.141 dBm
Start 3.4490000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.458000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.450 816 GHz
18.662 dBm
Start 3.450000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.466000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.458000000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.466000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.13

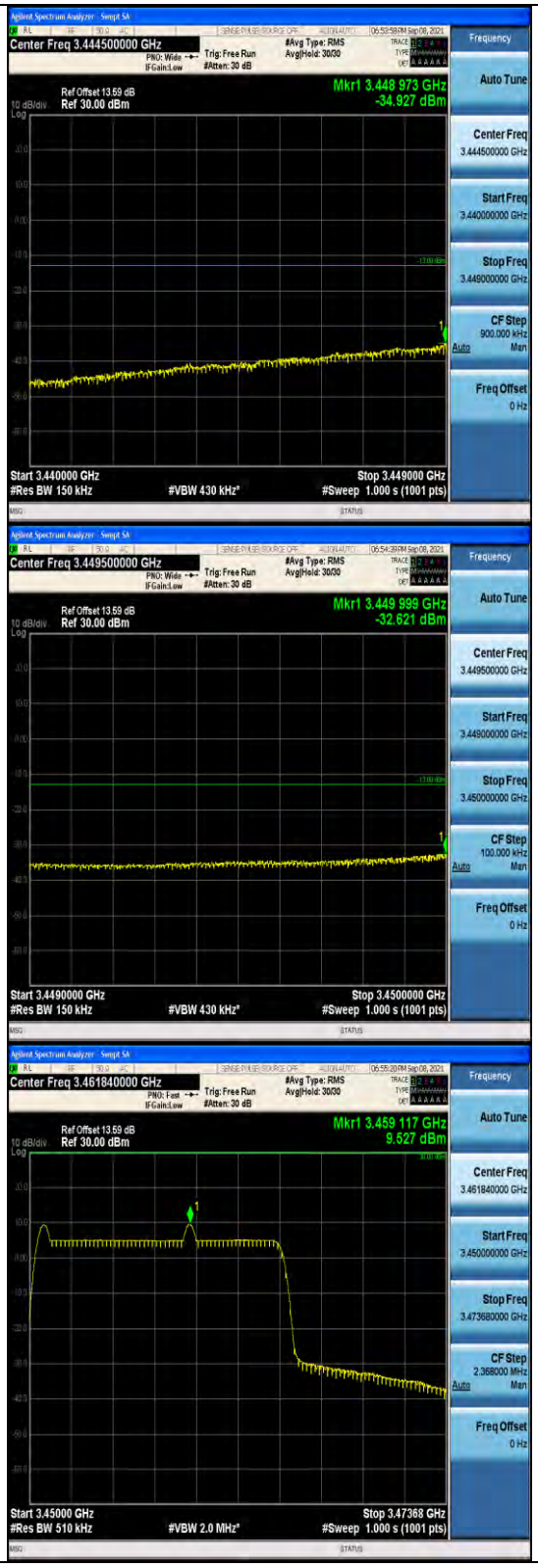

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 973 GHz
-34.927 dBm
Start 3.440000 GHz
#Res BW 150 kHz
#VBW 430 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 999 GHz
-32.821 dBm
Start 3.4490000 GHz
#Res BW 150 kHz
#VBW 430 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.461840000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.59 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.459 117 GHz
9.527 dBm
Start 3.45000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.47368 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.461840000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.473680000 GHz
CF Step
2.368000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.14

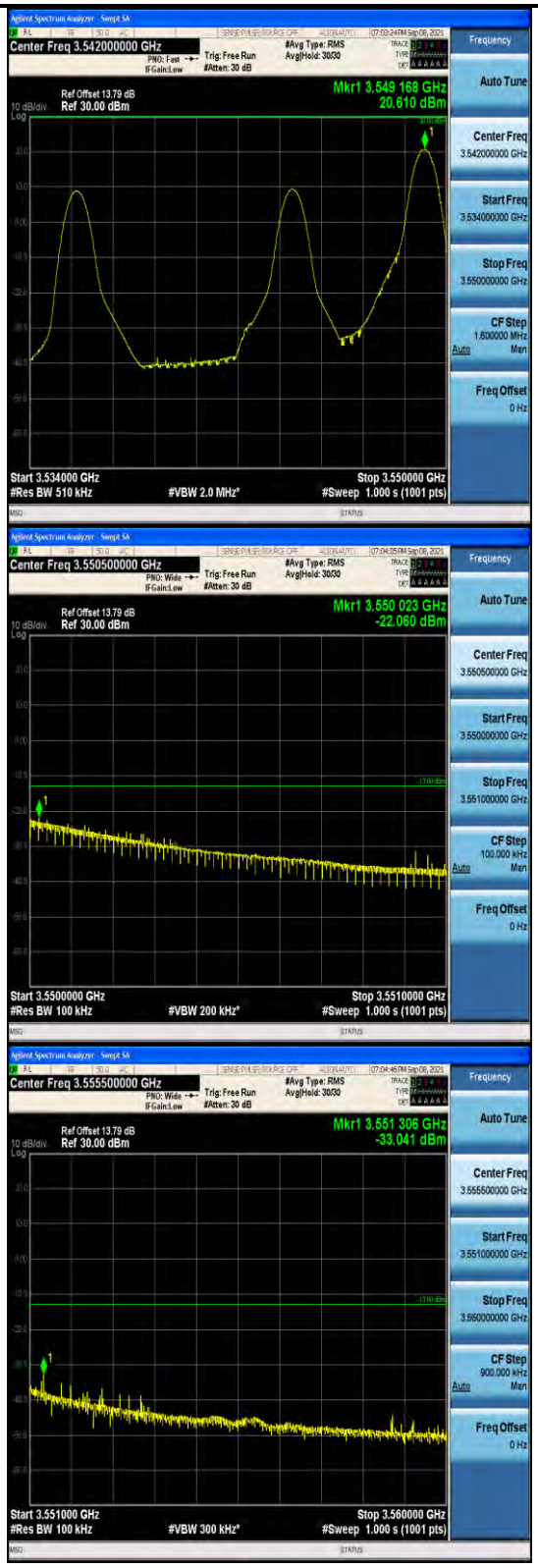

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.542000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.549 168 GHz
20.610 dBm
Start 3.534000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.550000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.542000000 GHz
Start Freq
3.534000000 GHz
Stop Freq
3.550000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.550 023 GHz
-22.080 dBm
Start 3.5500000 GHz
#Res BW 100 kHz
#VBW 200 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.551 306 GHz
-33.041 dBm
Start 3.551000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.15

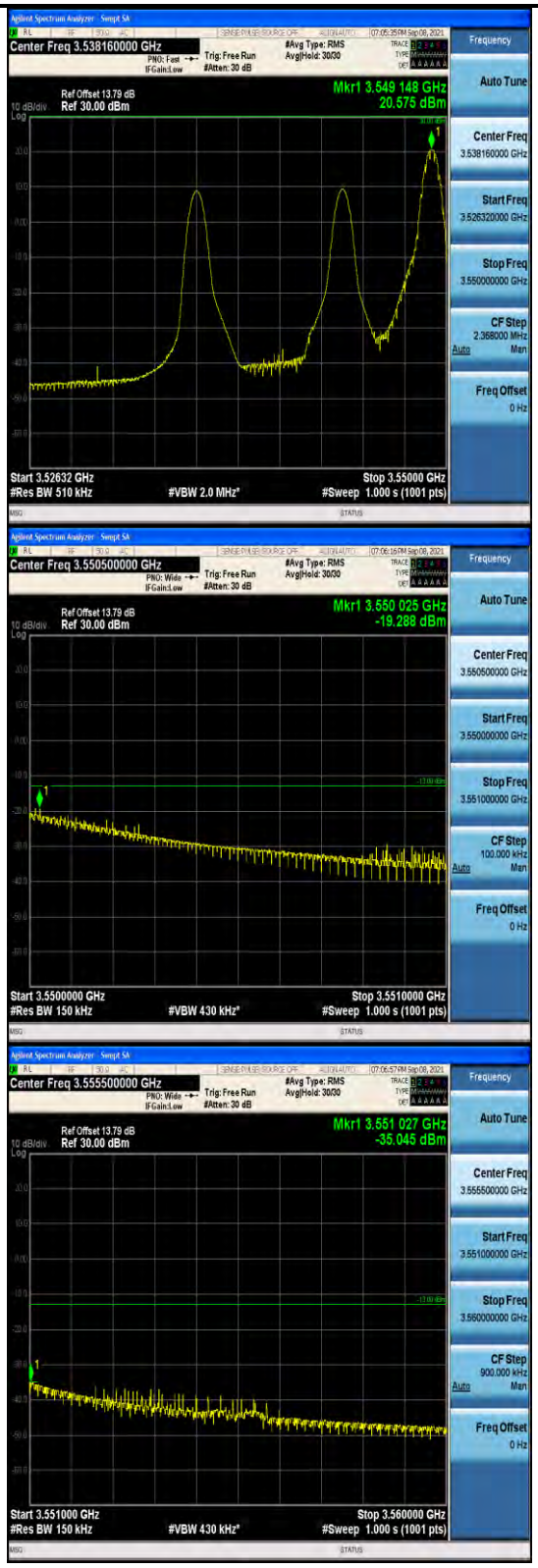
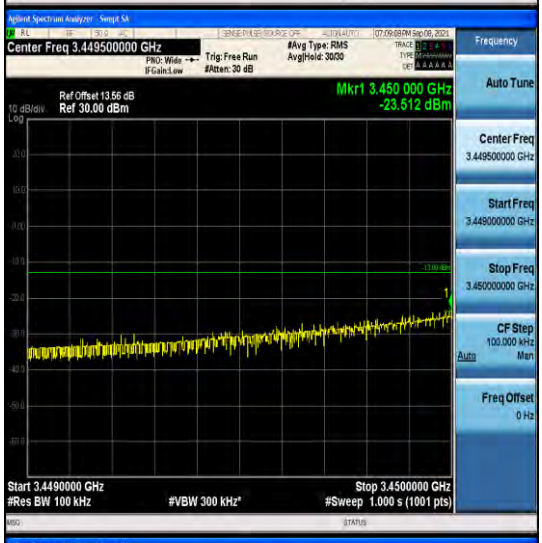

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.538160000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.549 148 GHz
20.575 dBm
Start 3.52632 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.55000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.538160000 GHz
Start Freq
3.526320000 GHz
Stop Freq
3.550000000 GHz
CF Step
2.368000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.550 025 GHz
-19.288 dBm
Start 3.5500000 GHz
#Res BW 150 kHz
#VBW 430 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.551 027 GHz
-35.045 dBm
Start 3.551000 GHz
#Res BW 150 kHz
#VBW 430 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.16

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 973 GHz
-32.628 dBm
Start 3.440000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.450 000 GHz
-23.512 dBm
Start 3.4490000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz

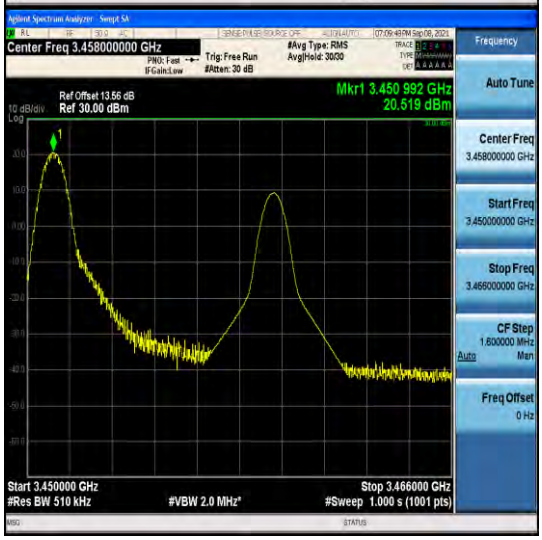
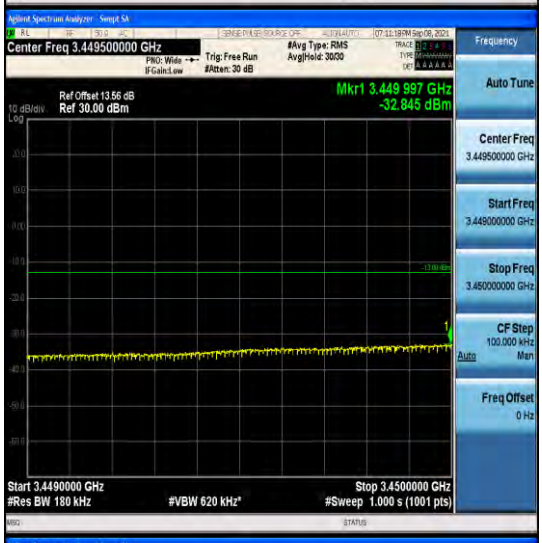

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.458000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.450 992 GHz
20.519 dBm
Start 3.450000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.466000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.458000000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.466000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.17

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 064 GHz
-35.797 dBm
Start 3.440000 GHz
#Res BW 180 kHz
#VBW 620 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 997 GHz
-32.845 dBm
Start 3.4490000 GHz
#Res BW 180 kHz
#VBW 620 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.464000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.459 296 GHz
9.174 dBm
Start 3.45000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.47800 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.464000000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.478000000 GHz
CF Step
2.800000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.18

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.542000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.548 960 GHz
20.657 dBm
Start 3.534000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.550000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.542000000 GHz
Start Freq
3.534000000 GHz
Stop Freq
3.550000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.550 031 GHz
-23.975 dBm
Start 3.5500000 GHz
#Res BW 100 kHz
#VBW 200 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.552 089 GHz
-35.697 dBm
Start 3.551000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.19

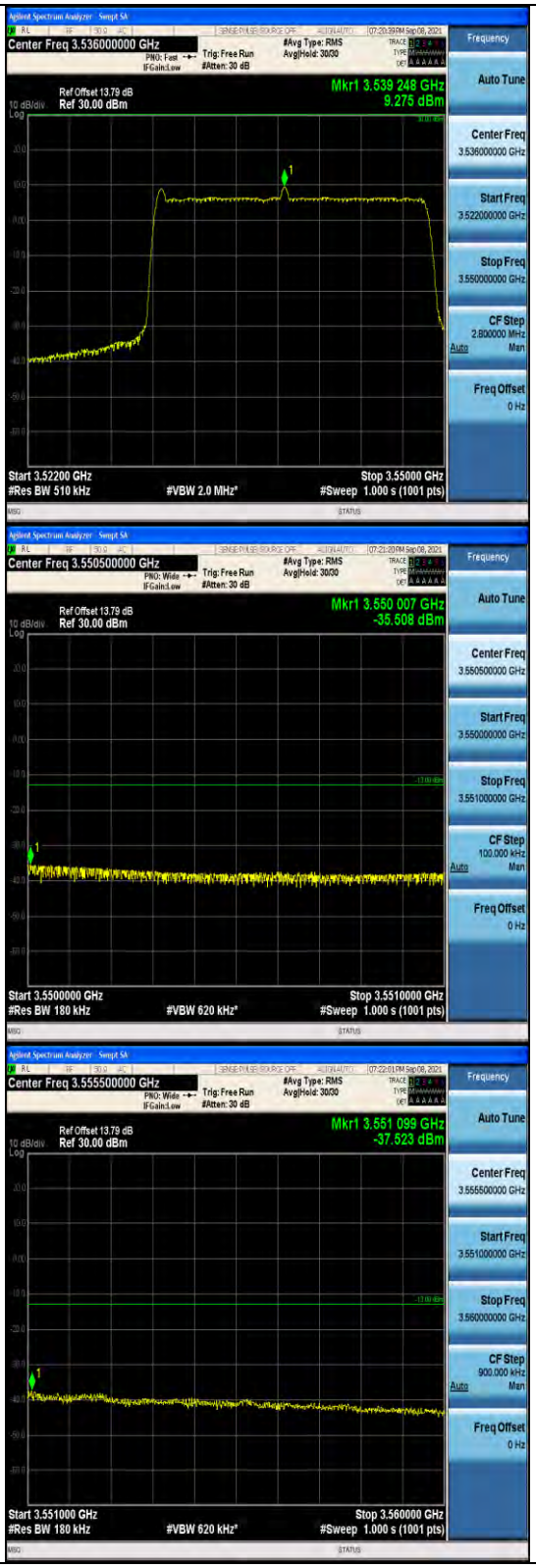

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.536000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.539 248 GHz
9.275 dBm
Start 3.52200 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.55000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.536000000 GHz
Start Freq
3.522000000 GHz
Stop Freq
3.550000000 GHz
CF Step
2.800000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.550 007 GHz
-35.508 dBm
Start 3.5500000 GHz
#Res BW 180 kHz
#VBW 620 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.551 099 GHz
-37.523 dBm
Start 3.551000 GHz
#Res BW 180 kHz
#VBW 620 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.20

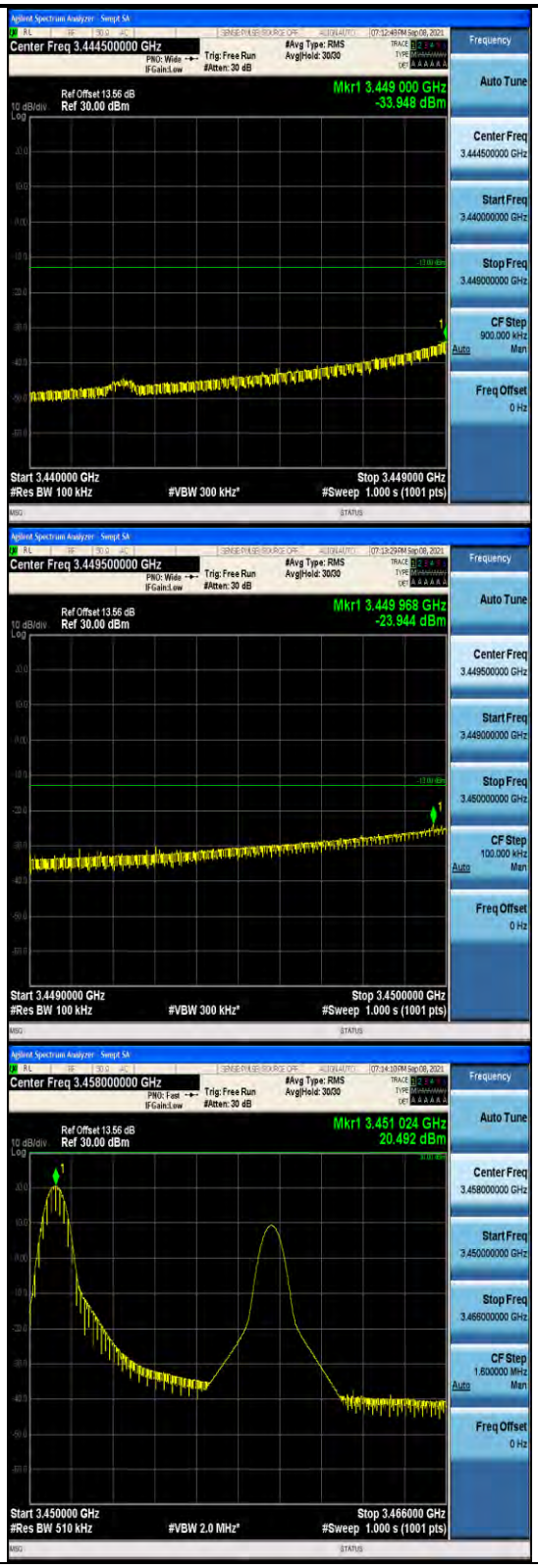

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 000 GHz
-33.948 dBm
Start 3.440000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 968 GHz
-23.944 dBm
Start 3.4490000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.458000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.451 024 GHz
20.492 dBm
Start 3.450000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.466000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.458000000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.466000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.21

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 937 GHz
-30.342 dBm
Start 3.440000 GHz
#Res BW 180 kHz
#VBW 620 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 949 GHz
-21.820 dBm
Start 3.4490000 GHz
#Res BW 180 kHz
#VBW 620 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.464180000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.450 993 GHz
20.472 dBm
Start 3.45000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.47836 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.464180000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.478360000 GHz
CF Step
2.836000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.22

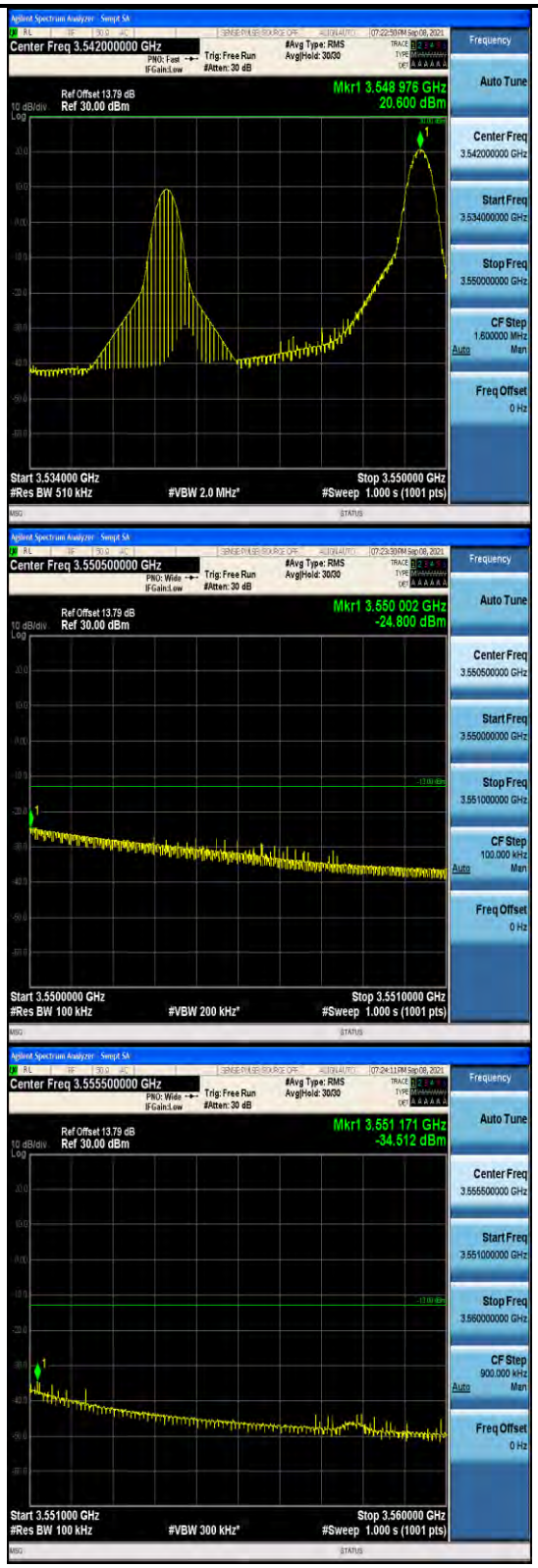

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.542000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.548 976 GHz
20.600 dBm
Start 3.534000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.550000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.542000000 GHz
Start Freq
3.534000000 GHz
Stop Freq
3.550000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.550 002 GHz
-24.800 dBm
Start 3.5500000 GHz
#Res BW 100 kHz
#VBW 200 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.551 171 GHz
-34.512 dBm
Start 3.551000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.23

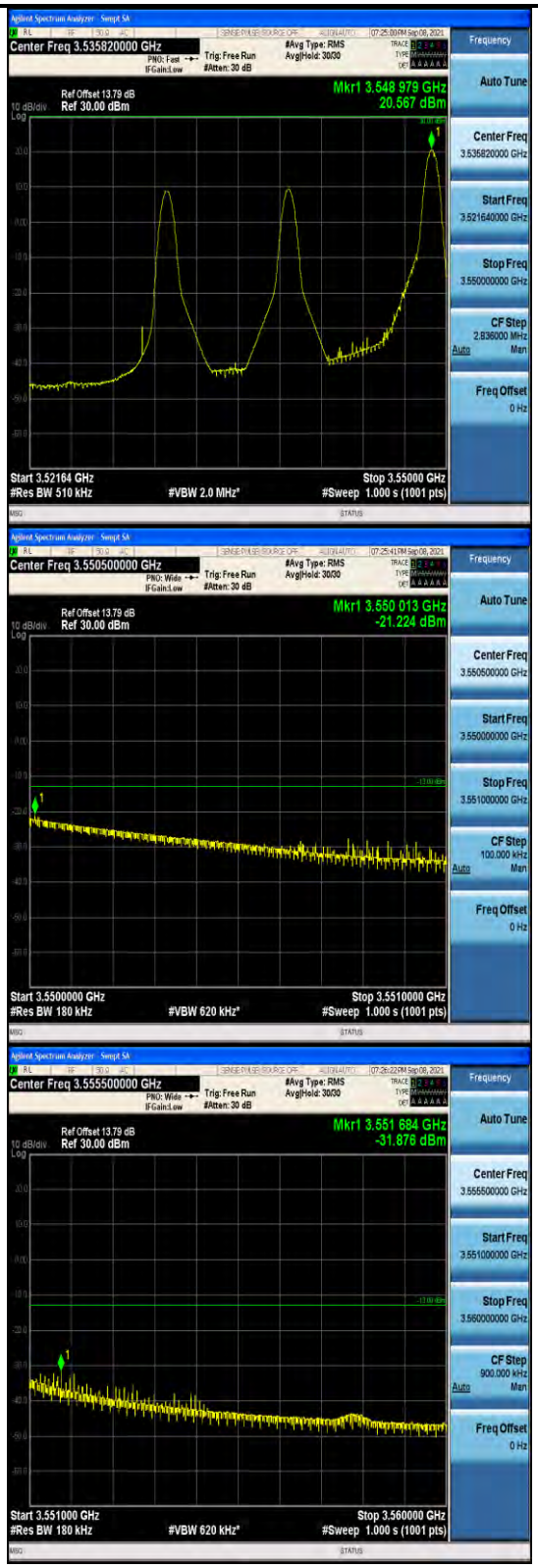

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.535820000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.548 979 GHz
20.567 dBm
Start 3.52164 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.55000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.535820000 GHz
Start Freq
3.521640000 GHz
Stop Freq
3.550000000 GHz
CF Step
2.836000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.550 013 GHz
-21.224 dBm
Start 3.5500000 GHz
#Res BW 180 kHz
#VBW 620 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.79 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.551 684 GHz
-31.878 dBm
Start 3.551000 GHz
#Res BW 180 kHz
#VBW 620 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.24

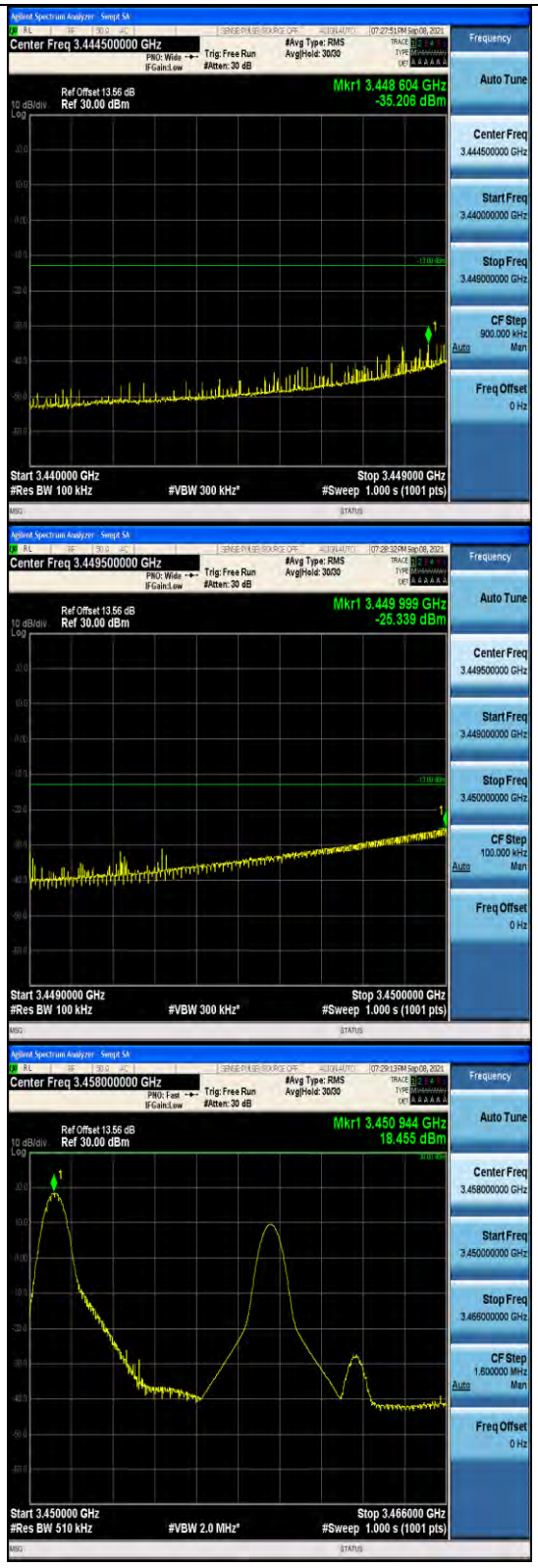

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 604 GHz
-35.206 dBm
Start 3.440000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 999 GHz
-25.339 dBm
Start 3.4490000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.458000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.450 944 GHz
18.455 dBm
Start 3.450000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.466000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.458000000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.466000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.25

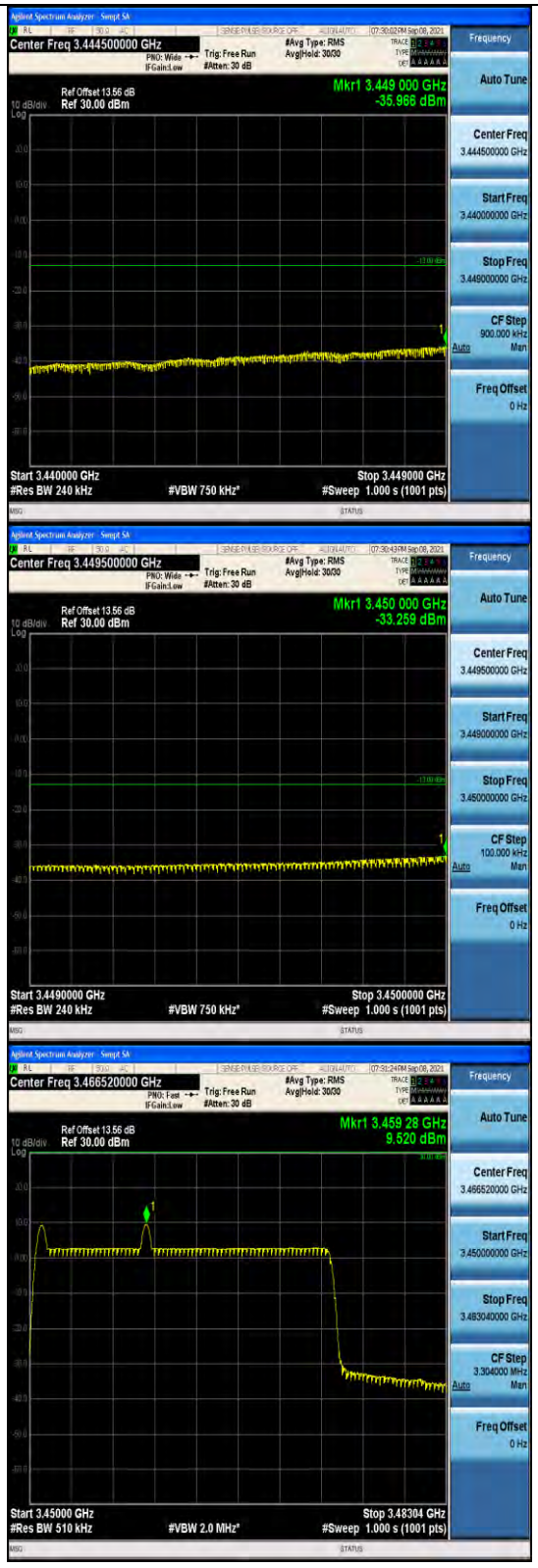

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 000 GHz
-35.986 dBm
Start 3.440000 GHz
#Res BW 240 kHz
#VBW 750 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.450 000 GHz
-33.259 dBm
Start 3.4490000 GHz
#Res BW 240 kHz
#VBW 750 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.466520000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.459 28 GHz
9.520 dBm
Start 3.45000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.48304 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.466520000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.483040000 GHz
CF Step
3.304000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.26

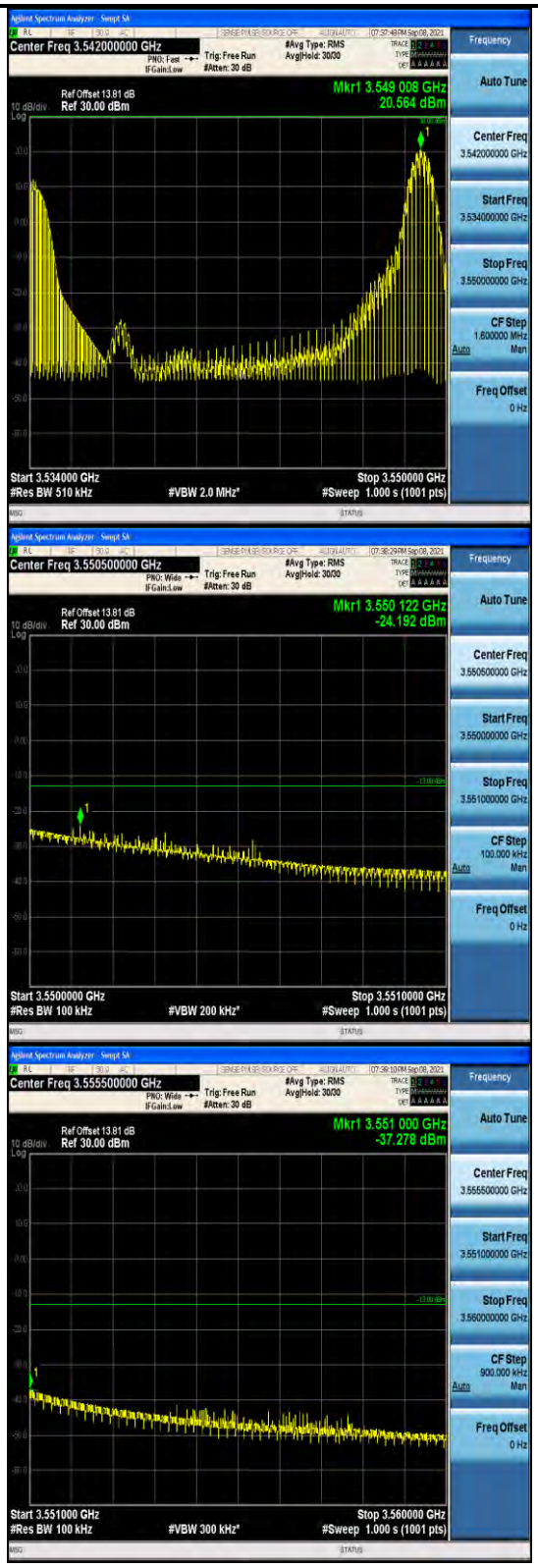

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.542000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.549 008 GHz
20.564 dBm
Start 3.534000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.550000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.542000000 GHz
Start Freq
3.534000000 GHz
Stop Freq
3.550000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.550 122 GHz
-24.192 dBm
Start 3.5500000 GHz
#Res BW 100 kHz
#VBW 200 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.551 000 GHz
-37.278 dBm
Start 3.551000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.27

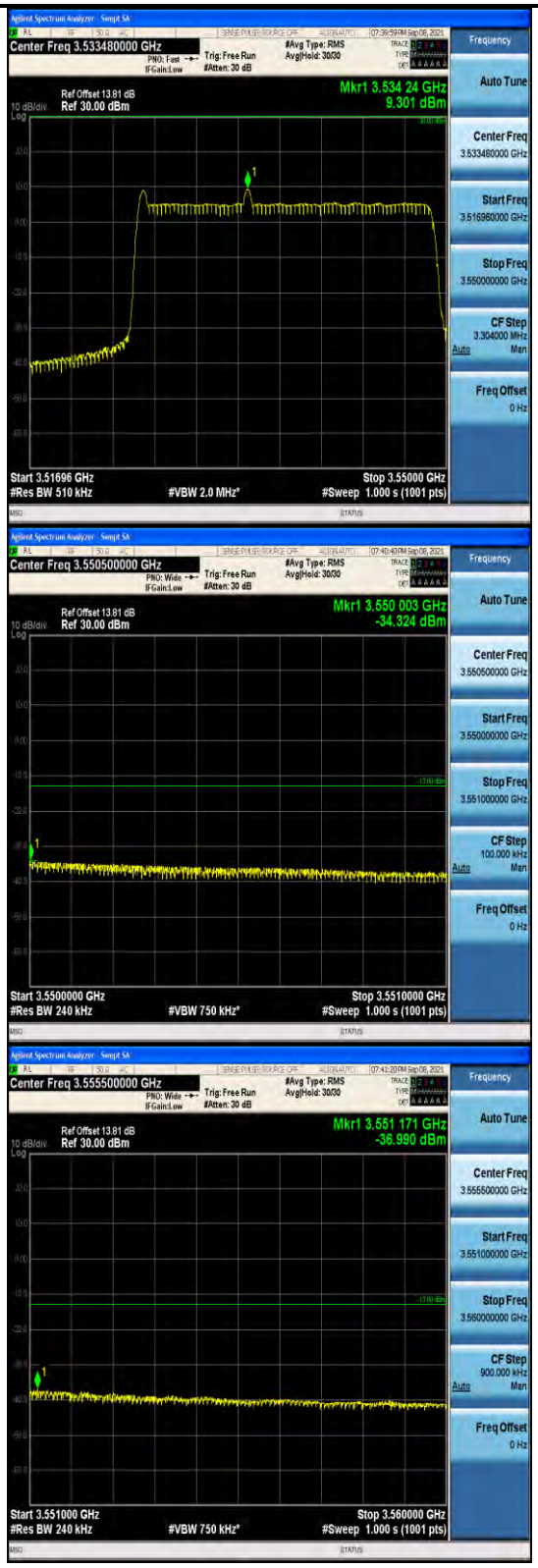

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.533480000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.534 24 GHz
9.301 dBm
Start 3.51696 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.55000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.533480000 GHz
Start Freq
3.516960000 GHz
Stop Freq
3.550000000 GHz
CF Step
3.304000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.550 003 GHz
-34.324 dBm
Start 3.5500000 GHz
#Res BW 240 kHz
#VBW 750 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.551 171 GHz
-36.990 dBm
Start 3.551000 GHz
#Res BW 240 kHz
#VBW 750 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.28

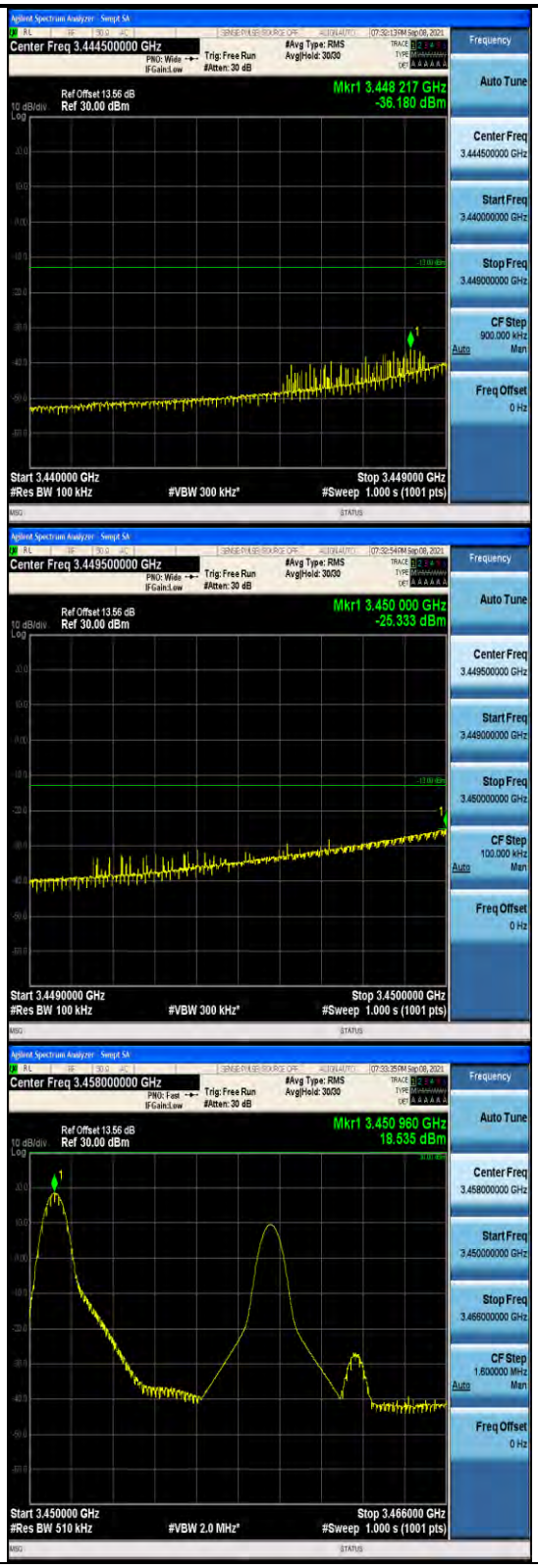

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 217 GHz
-36.180 dBm
Start 3.440000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.450 000 GHz
-25.333 dBm
Start 3.4490000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.458000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.450 960 GHz
18.535 dBm
Start 3.450000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.466000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.458000000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.466000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Fig.29

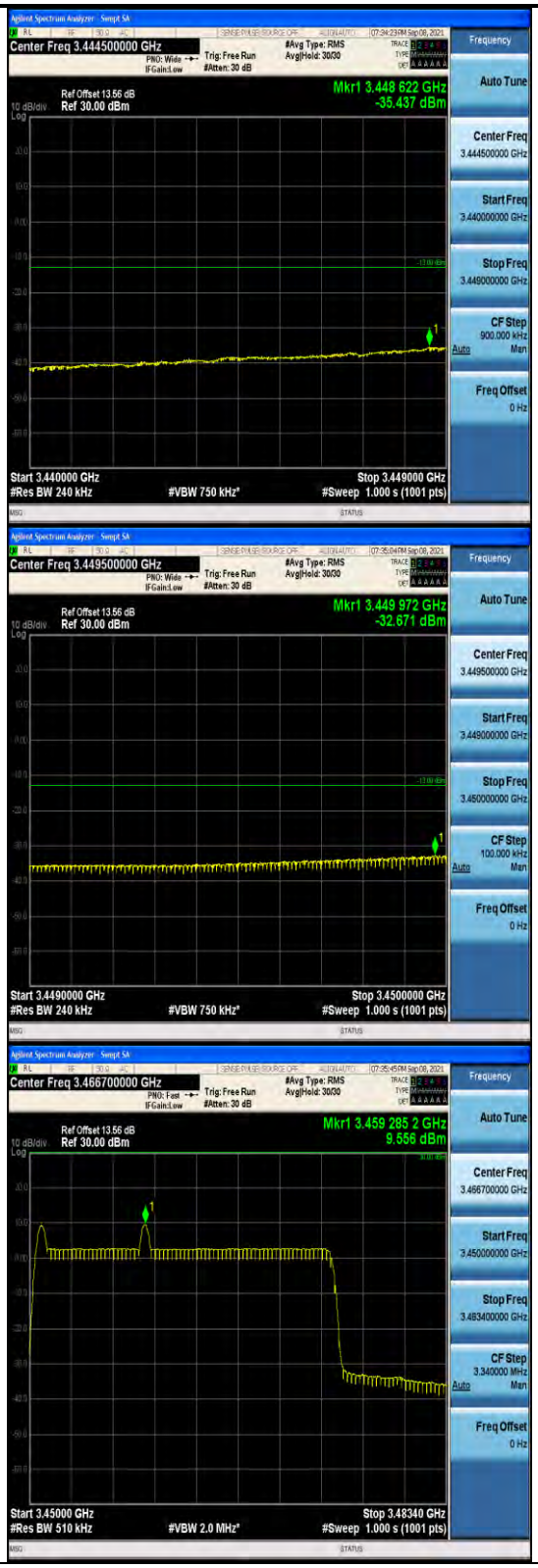

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 622 GHz
-35.437 dBm
Start 3.440000 GHz
#Res BW 240 kHz
#VBW 750 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 972 GHz
-32.671 dBm
Start 3.4490000 GHz
#Res BW 240 kHz
#VBW 750 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.466700000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.459 285 2 GHz
9.556 dBm
Start 3.45000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.48340 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.466700000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.483400000 GHz
CF Step
3.340000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Fig.30

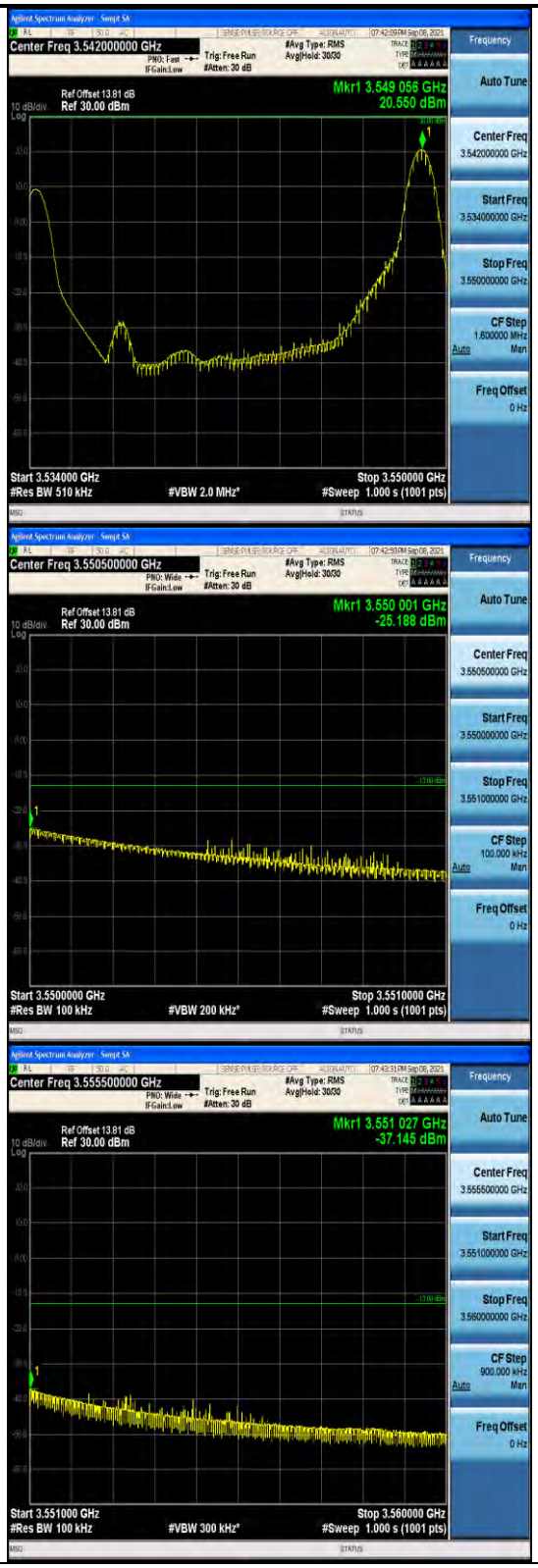

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.542000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.549 056 GHz
20.550 dBm
Start 3.534000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.550000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.542000000 GHz
Start Freq
3.534000000 GHz
Stop Freq
3.550000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.550 001 GHz
-25.188 dBm
Start 3.5500000 GHz
#Res BW 100 kHz
#VBW 200 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.551 027 GHz
-37.145 dBm
Start 3.551000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.31

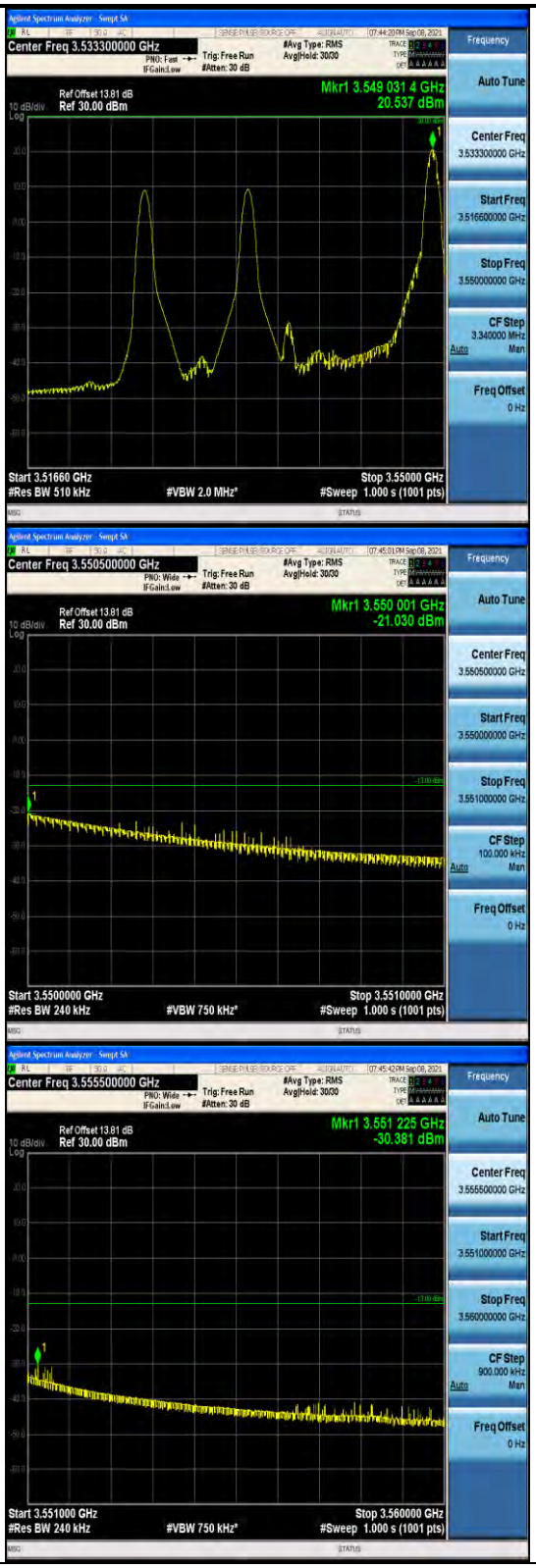

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.533300000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.549 031 4 GHz
20.537 dBm
Start 3.51660 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.55000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.533300000 GHz
Start Freq
3.516600000 GHz
Stop Freq
3.550000000 GHz
CF Step
3.340000 MHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.550 001 GHz
-21.030 dBm
Start 3.5500000 GHz
#Res BW 240 kHz
#VBW 750 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.551 225 GHz
-30.381 dBm
Start 3.551000 GHz
#Res BW 240 kHz
#VBW 750 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz

Fig.32

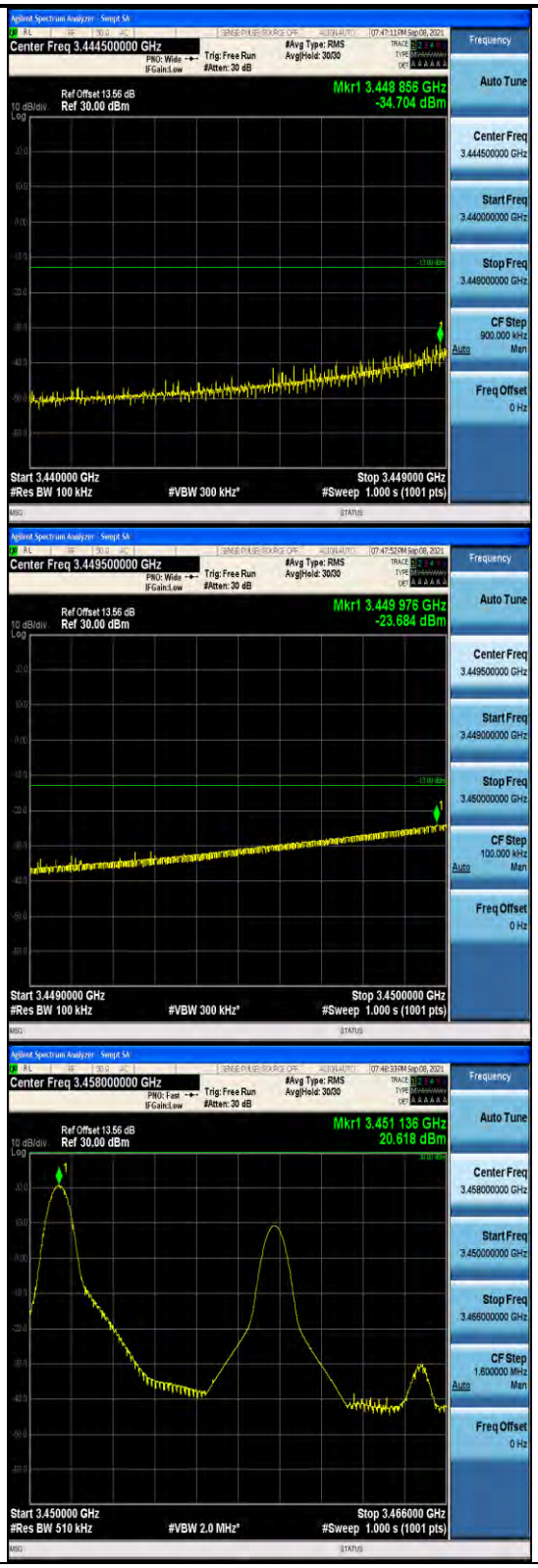

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 856 GHz
-34.704 dBm
Start 3.440000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 976 GHz
-23.684 dBm
Start 3.4490000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.458000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.451 136 GHz
20.618 dBm
Start 3.450000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.466000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.458000000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.466000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.33

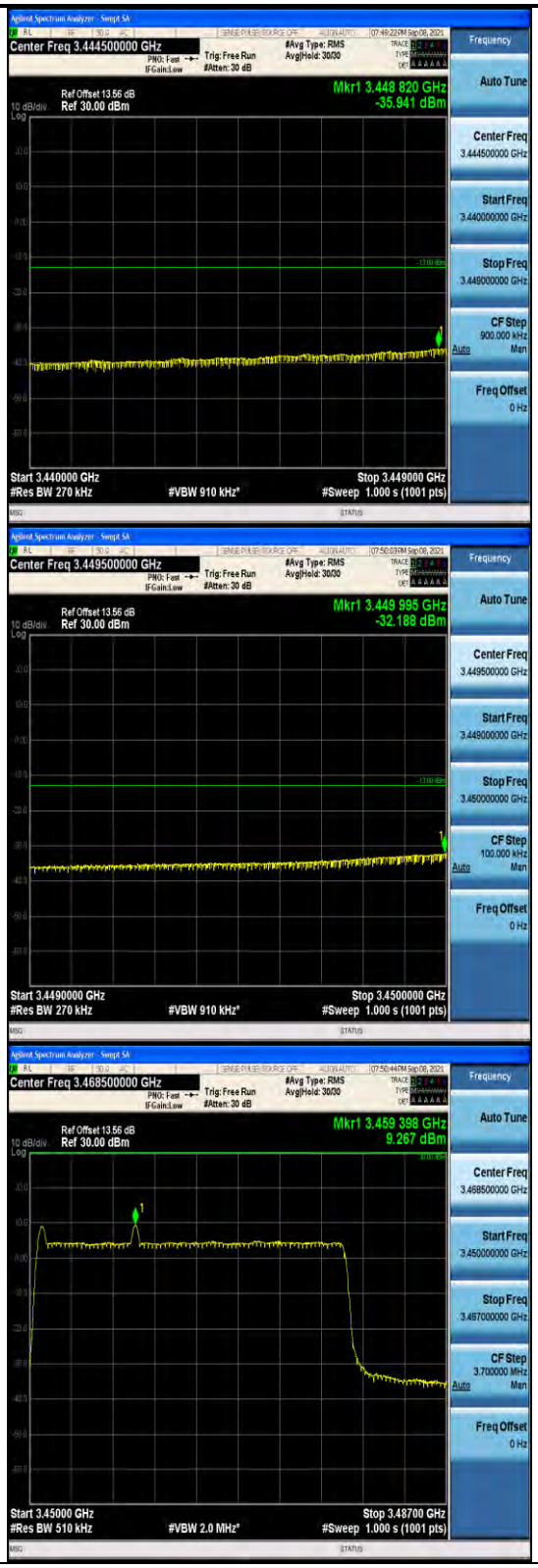

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.448 820 GHz
-35.941 dBm
Start 3.440000 GHz
#Res BW 270 kHz
#VBW 910 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.449 995 GHz
-32.188 dBm
Start 3.4490000 GHz
#Res BW 270 kHz
#VBW 910 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.468500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Log
Mkr1 3.459 398 GHz
9.267 dBm
Start 3.45000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.48700 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.468500000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.487000000 GHz
CF Step
3.700000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.34

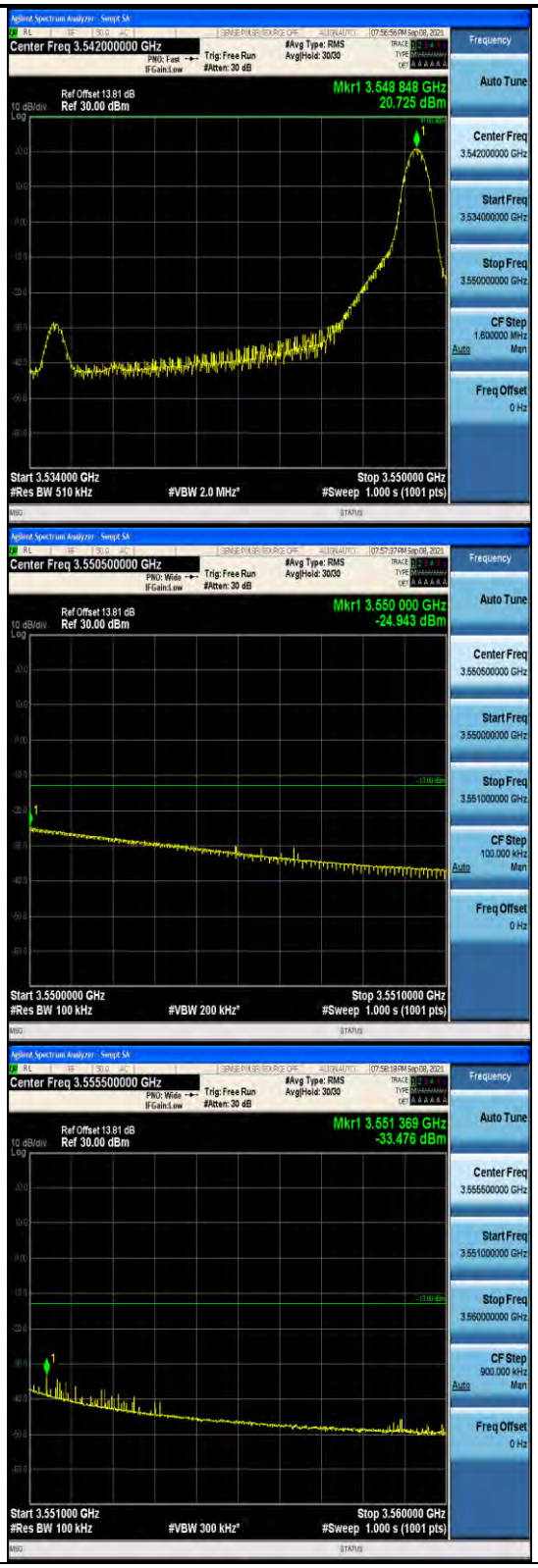

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.542000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 3.548 848 GHz
20.725 dBm
Start 3.534000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.550000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.542000000 GHz
Start Freq
3.534000000 GHz
Stop Freq
3.550000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 3.550 000 GHz
-24.943 dBm
Start 3.5500000 GHz
#Res BW 100 kHz
#VBW 200 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 3.551 369 GHz
-33.476 dBm
Start 3.551000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Fig.35

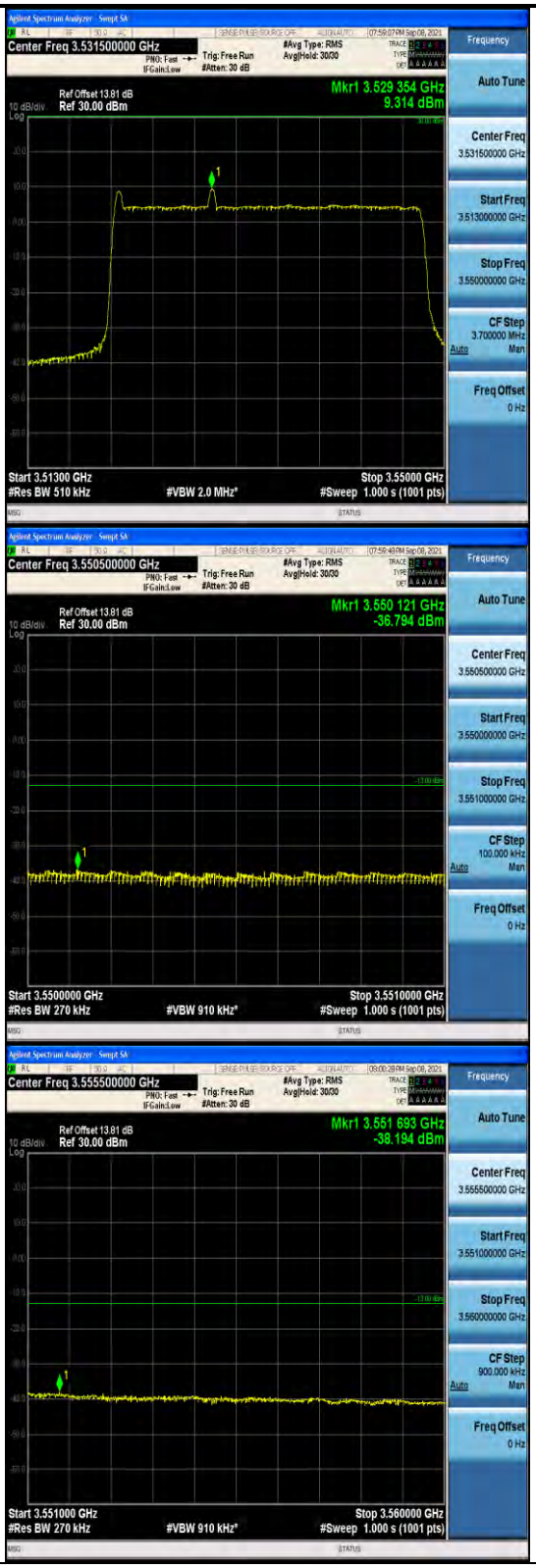

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.531500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 3.529 354 GHz
9.314 dBm
Start 3.51300 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.55000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.531500000 GHz
Start Freq
3.513000000 GHz
Stop Freq
3.550000000 GHz
CF Step
3.700000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.550500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 3.550 121 GHz
-36.794 dBm
Start 3.5500000 GHz
#Res BW 270 kHz
#VBW 910 kHz*
Stop 3.5510000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.550500000 GHz
Start Freq
3.550000000 GHz
Stop Freq
3.551000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.555500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.81 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 3.551 693 GHz
-38.194 dBm
Start 3.551000 GHz
#Res BW 270 kHz
#VBW 910 kHz*
Stop 3.560000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.555500000 GHz
Start Freq
3.551000000 GHz
Stop Freq
3.560000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Fig.36

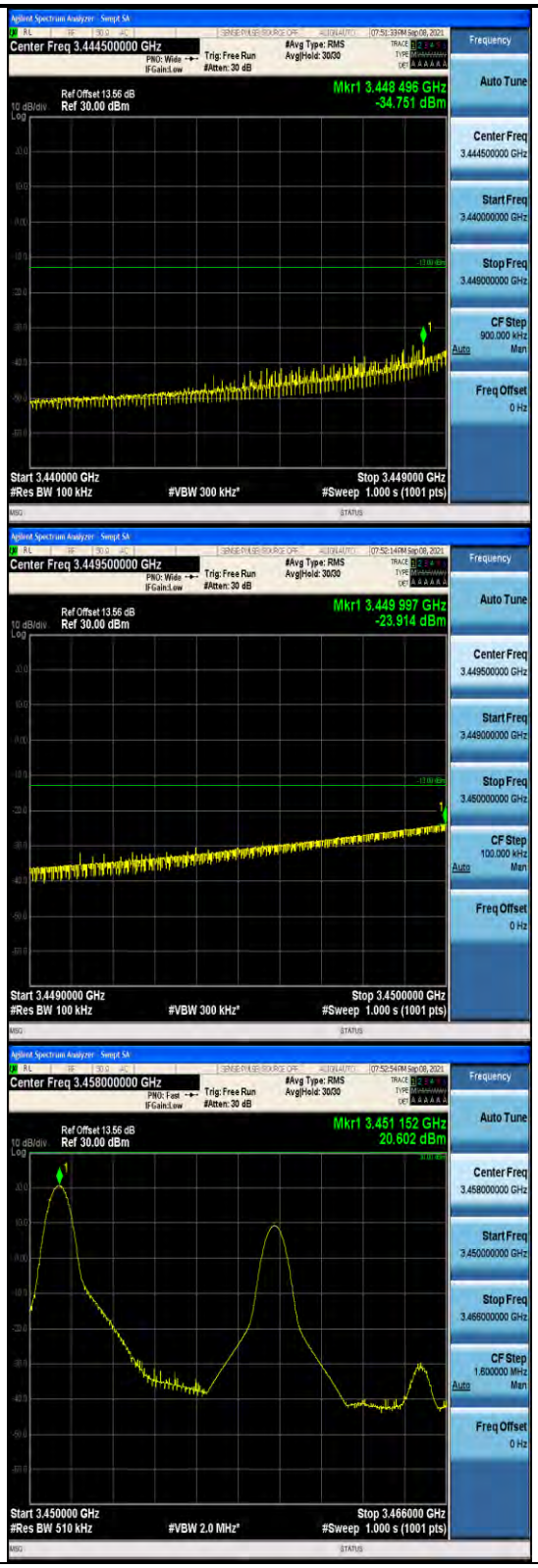

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.448 496 GHz
-34.751 dBm
Start 3.440000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.449 997 GHz
-23.914 dBm
Start 3.4490000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.458000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.451 152 GHz
20.602 dBm
Start 3.450000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.466000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.458000000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.466000000 GHz
CF Step
1.600000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.37

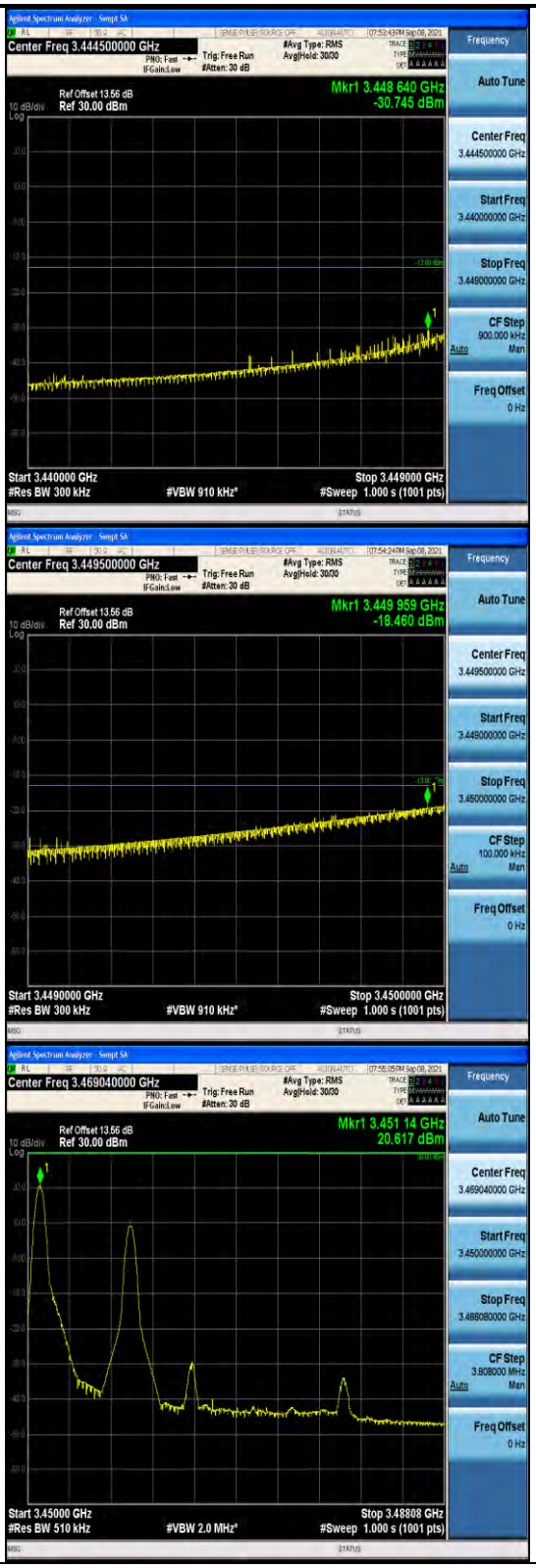

Agilent Spectrum Analyzer - Swept SA
Center Freq 3.444500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.448 640 GHz
-30.745 dBm
Start 3.440000 GHz
#Res BW 300 kHz
#VBW 910 kHz*
Stop 3.449000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.444500000 GHz
Start Freq
3.440000000 GHz
Stop Freq
3.449000000 GHz
CF Step
900.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.449500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.449 959 GHz
-18.460 dBm
Start 3.4490000 GHz
#Res BW 300 kHz
#VBW 910 kHz*
Stop 3.4500000 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.449500000 GHz
Start Freq
3.449000000 GHz
Stop Freq
3.450000000 GHz
CF Step
100.000 kHz
Auto
Man
Freq Offset
0 Hz
Agilent Spectrum Analyzer - Swept SA
Center Freq 3.469040000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 13.56 dB
10 dB/div Ref 30.00 dBm
Mkr1 3.451 14 GHz
20.617 dBm
Start 3.45000 GHz
#Res BW 510 kHz
#VBW 2.0 MHz*
Stop 3.48808 GHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
3.469040000 GHz
Start Freq
3.450000000 GHz
Stop Freq
3.488080000 GHz
CF Step
3.808000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.38