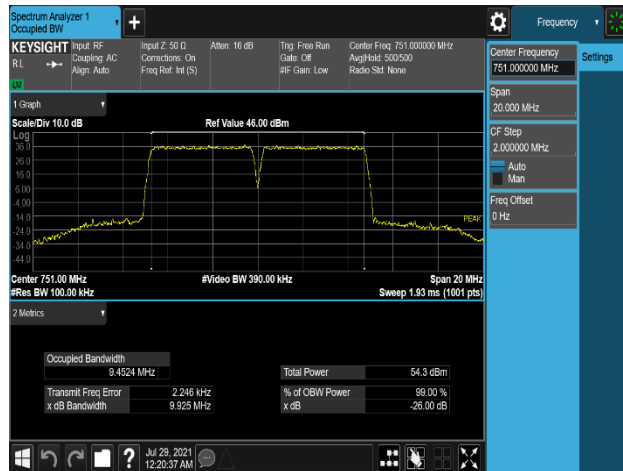
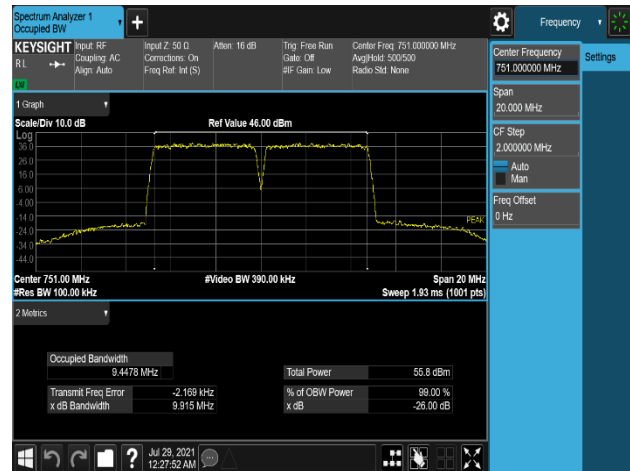


Channel	Port	OBW (MHz)			
		QPSK	16QAM	64QAM	256QAM
Mid	0	9.45	9.43	9.43	9.45
	1	9.45	9.42	9.45	9.45
	2	9.43	9.45	9.44	9.46
	3	9.43	9.43	9.45	9.45

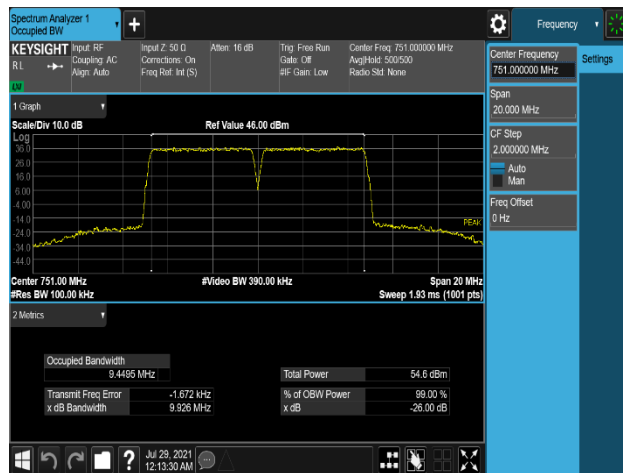
Table 7-17. Occupied Bandwidth Summary Data (B13_5M+5M_2C_4T)



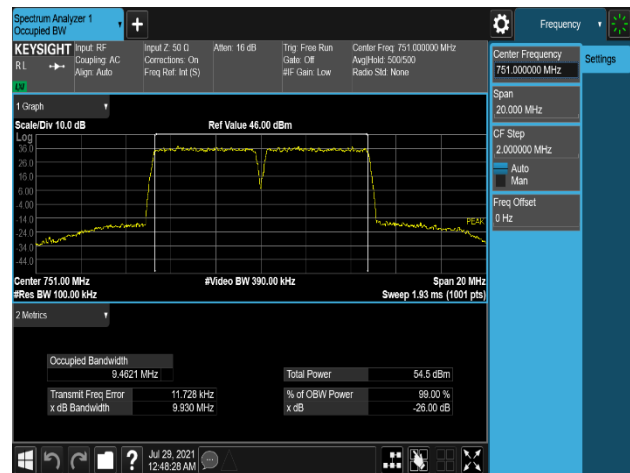
Plot 7-141. Occupied Bandwidth Plot (B13_5M+5M_2C_QPSK - Port 1)



Plot 7-142. Occupied Bandwidth Plot (B13_5M+5M_2C_16QAM - Port 2)



Plot 7-143. Occupied Bandwidth Plot (B13_5M+5M_2C_64QAM - Port 1)



Plot 7-144. Occupied Bandwidth Plot (B13_5M+5M_2C_256QAM - Port 2)

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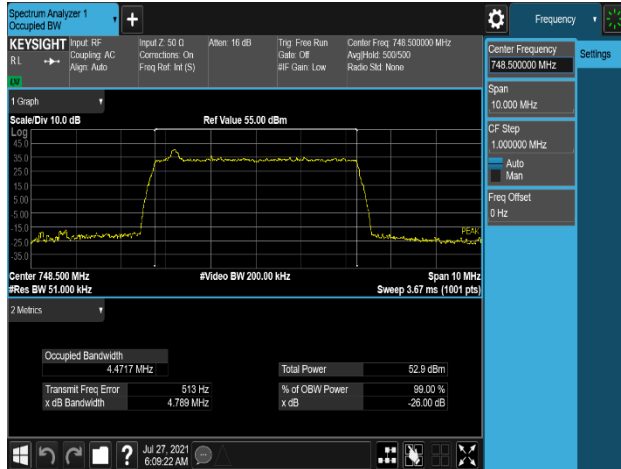
Channel	Port	OBW (MHz)
		QPSK
Low	0	4.47
	1	4.47
Middle	0	4.48
	1	4.47
High	0	4.48
	1	4.48

Table 7-18. Occupied Bandwidth Summary Data (B13_5M+NB-IoT(IB)_1C_2T)

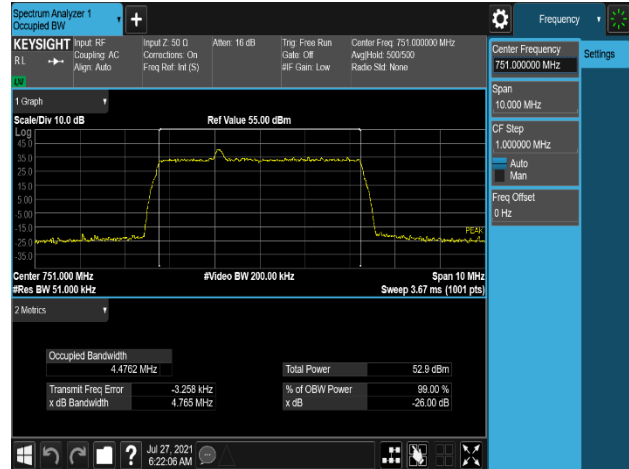
Configuration	Port	OBW (MHz)
		QPSK
B13_10M+Low_NB-IoT(IB)+High_NB-IoT(IB)_1C	0	8.95
	1	8.94
B13_10M+Low_NB-IoT(IB)+Low_NB-IoT(IB)_1C	0	8.96
	1	8.95
B13_10M+High_NB-IoT(IB)+High_NB-IoT(IB)_1C	0	8.94
	1	8.95

Table 7-19. Occupied Bandwidth Summary Data (B13_10M+NB-IoT(IB)+ NB-IoT(IB)_1C_2T)

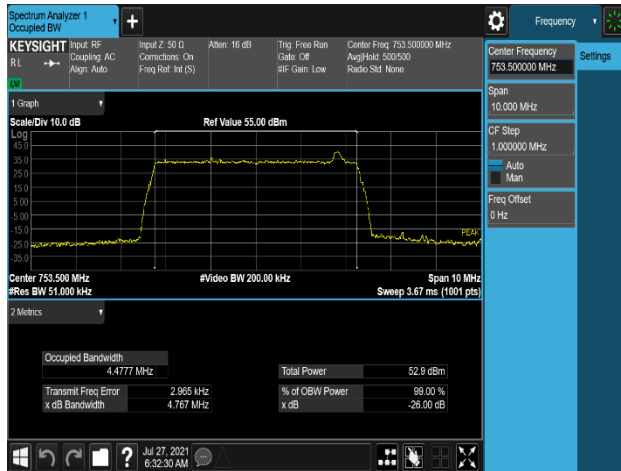
FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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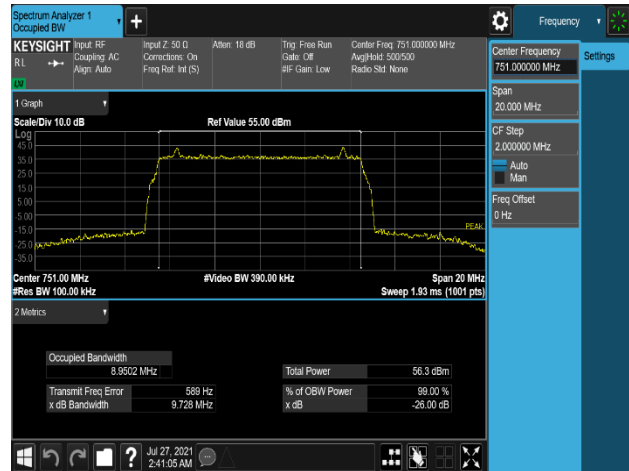
Plot 7-145. Occupied Bandwidth Plot
(B13_5M+NB-lot(IB)_1C_QPSK - Low Channel, Port 1)



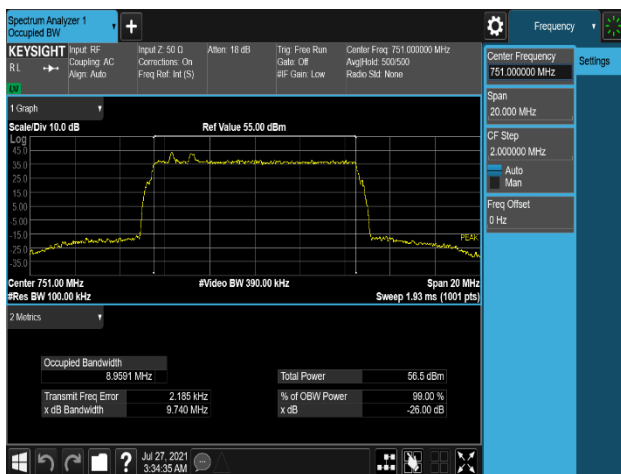
Plot 7-146. Occupied Bandwidth Plot
(B13_5M+NB-lot(IB)_1C_QPSK - Mid Channel, Port 0)



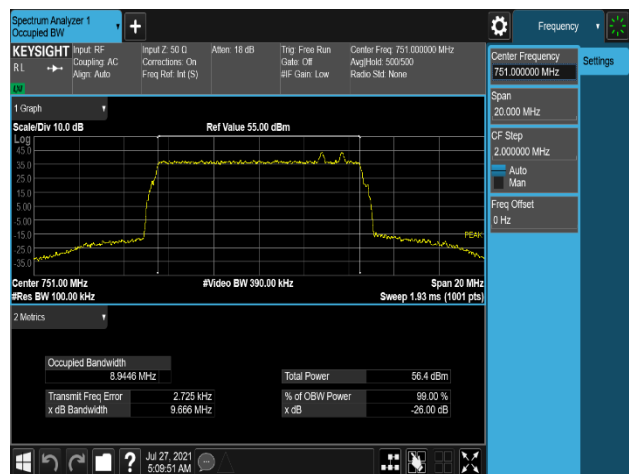
Plot 7-147. Occupied Bandwidth Plot
(B13_5M+NB-lot(IB)_1C_QPSK - High Channel, Port 1)



Plot 7-148. Occupied Bandwidth Plot
(B13_10M+Low_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK - Port 0)



Plot 7-149. Occupied Bandwidth Plot
(B13_10M+Low_NB-lot(IB)+Low_NB-lot(IB)_1C_QPSK - Port 0)



Plot 7-150. Occupied Bandwidth Plot
(B13_10M+High_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK - Port 1)

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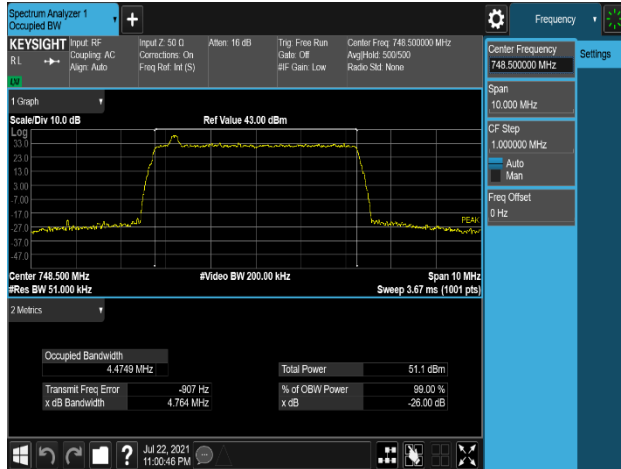
Channel	Port	OBW (MHz)
		QPSK
Low	0	4.47
	1	4.47
	2	4.47
	3	4.47
Middle	0	4.47
	1	4.48
	2	4.47
	3	4.48
High	0	4.47
	1	4.47
	2	4.48
	3	4.48

Table 7-20. Occupied Bandwidth Summary Data (B13_5M+NB-lot(IB)_1C_4T)

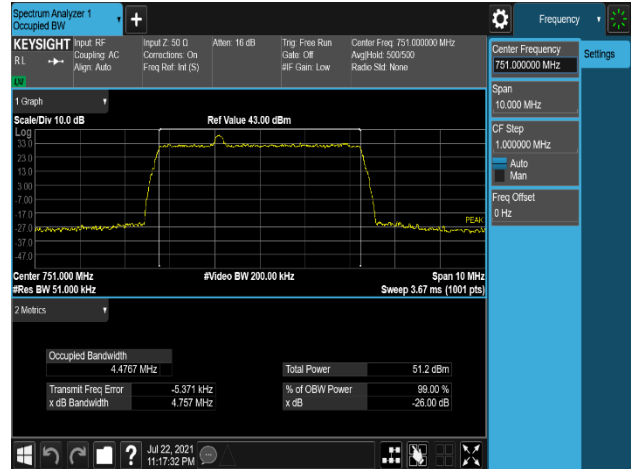
Channel	Port	OBW (MHz)
		QPSK
B13_10M+Low_NB-lot(IB)+High_NB-lot(IB)_1C	0	8.95
	1	8.95
	2	8.96
	3	8.96
B13_10M+Low_NB-lot(IB)+Low_NB-lot(IB)_1C	0	8.95
	1	8.95
	2	8.95
	3	8.95
B13_10M+High_NB-lot(IB)+High_NB-lot(IB)_1C	0	8.94
	1	8.94
	2	8.94
	3	8.95

Table 7-21. Occupied Bandwidth Summary Data (B13_10M+NB-lot(IB)+ NB-lot(IB)_1C_4T)

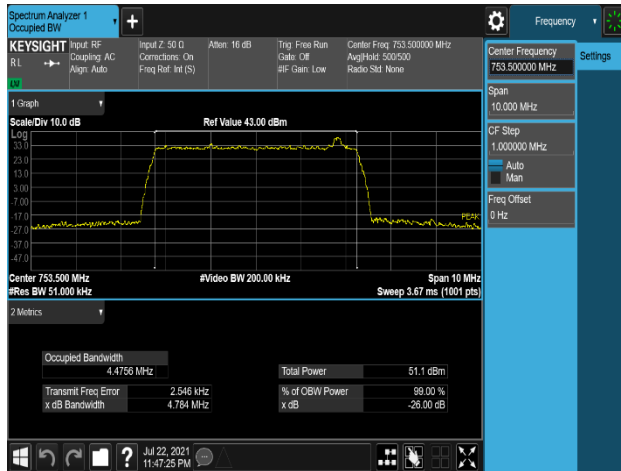
FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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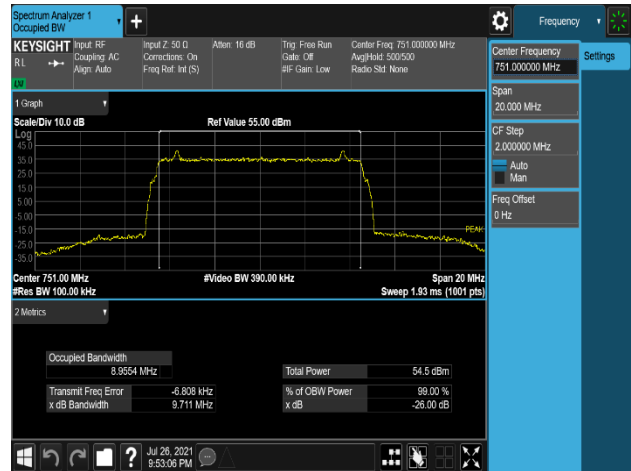
Plot 7-151. Occupied Bandwidth Plot
(B13_5M+NB-lot(IB)_1C_QPSK - Low Channel, Port 1)



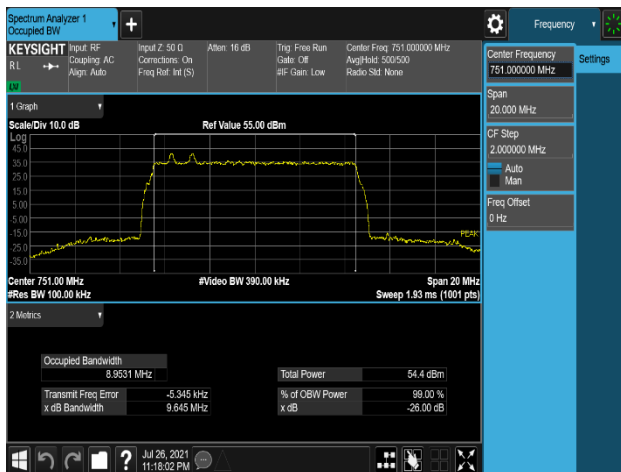
Plot 7-152. Occupied Bandwidth Plot
(B13_5M+NB-lot(IB)_1C_QPSK - Mid Channel, Port 1)



Plot 7-153. Occupied Bandwidth Plot
(B13_5M+NB-lot(IB)_1C_QPSK - High Channel, Port 2)



Plot 7-154. Occupied Bandwidth Plot
(B13_10M+Low_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK - Port 2)



Plot 7-155. Occupied Bandwidth Plot
(B13_10M+Low_NB-lot(IB)+Low_NB-lot(IB)_1C_QPSK - Port 3)



Plot 7-156. Occupied Bandwidth Plot
(B13_10M+High_NB-lot(IB)+High_NB-lot(IB)_1C_QPSK - Port 3)

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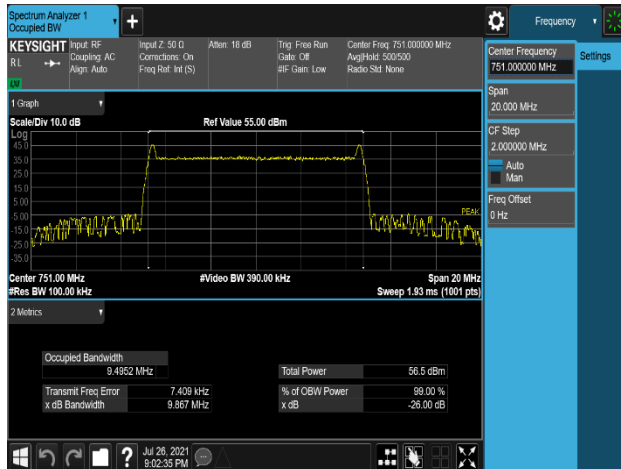
Configuration	Port	OBW (MHz)
		QPSK
NB-lot(GB) Low Edge + Hight Edge	0	9.50
	1	9.48

Table 7-22. Occupied Bandwidth Summary Data (B13_10M+NB-lot(GB)+ NB-lot(GB)_3C_2T)

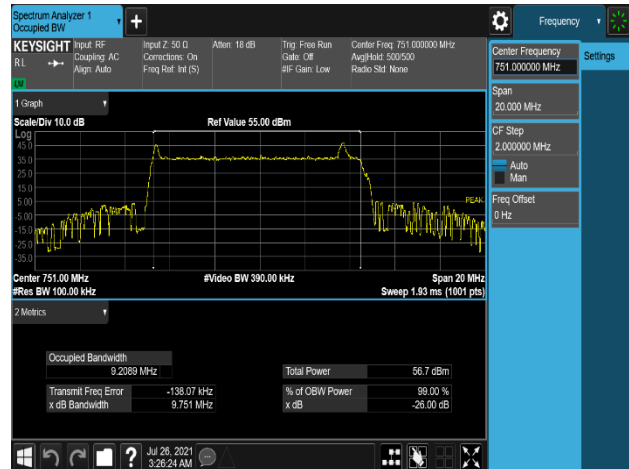
Configuration	Port	OBW (MHz)
		QPSK
NB-lot(GB)_Low Edge + NB-lot(IB) High Edge	0	9.20
	1	9.21
NB-lot(GB)_High Edge + NB-lot(IB) Low Edge	0	9.23
	1	9.20

Table 7-23. Occupied Bandwidth Summary Data (B13_10M+NB-lot(IB)+ NB-lot(GB)_2C_2T)

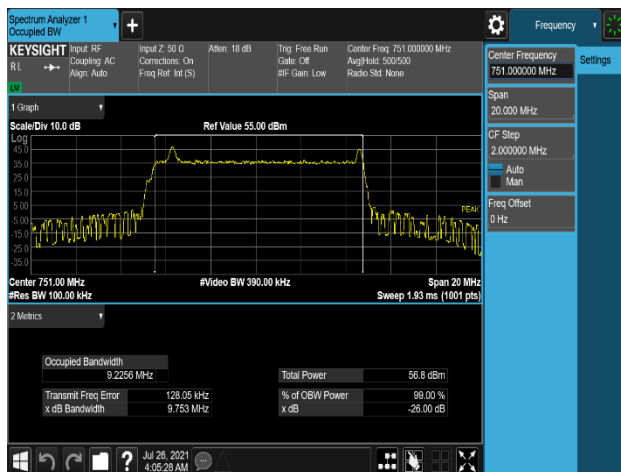
FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-157. Occupied Bandwidth Plot
(B13_10M+NB-lot(GB)+ NB-lot(GB)_3C_QPSK - Port 0)



Plot 7-158. Occupied Bandwidth Plot
(B13_10M+NB-lot(IB)+ NB-lot(GB)_2C_QPSK - Port 1)



Plot 7-159. Occupied Bandwidth Plot
(B13_10M+NB-lot(IB)+ NB-lot(GB)_2C_QPSK - Port 0)

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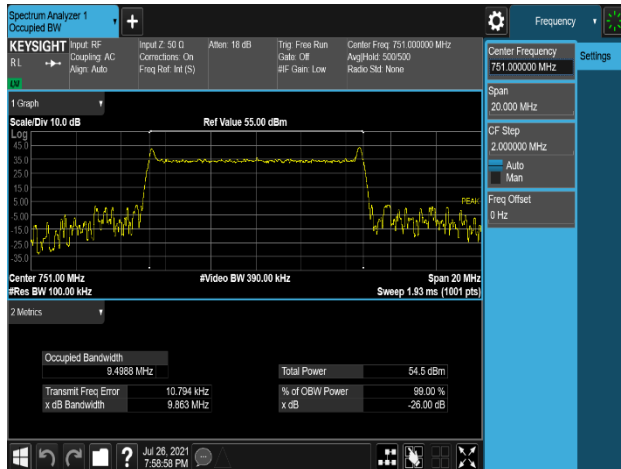
Configuration	Port	OBW (MHz)
		QPSK
NB-lot(GB) Low Edge + Hight Edge	0	9.47
	1	9.49
	2	9.50
	3	9.49

Table 7-24. Occupied Bandwidth Summary Data (B13_10M+NB-lot(GB)+ NB-lot(GB)_3C_4T)

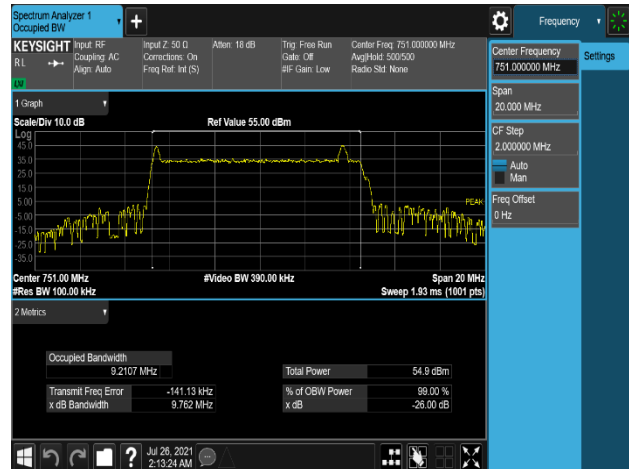
Configuration	Port	OBW (MHz)
		QPSK
NB-lot(GB)_Low Edge + NB-lot(IB) High Edge	0	9.19
	1	9.20
	2	9.21
	3	9.19
NB-lot(GB)_High Edge + NB-lot(IB) Low Edge	0	9.20
	1	9.21
	2	9.20
	3	9.21

Table 7-25. Occupied Bandwidth Summary Data (B13_10M+NB-lot(IB)+ NB-lot(GB)_2C_4T)

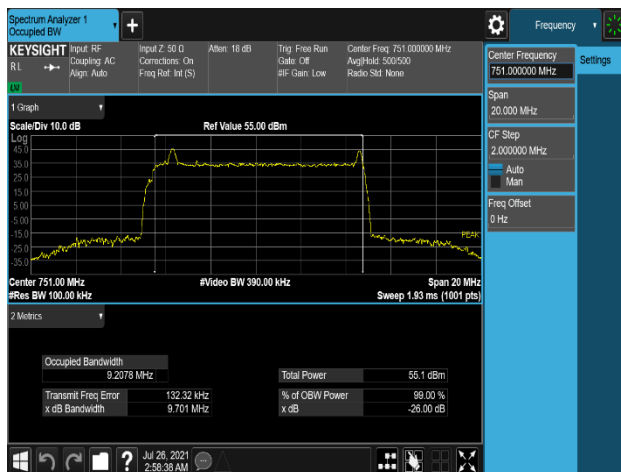
FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-160. Occupied Bandwidth Plot
(B13_10M+NB-lot(GB)+ NB-lot(GB)_3C_QPSK - Port 2)



Plot 7-161. Occupied Bandwidth Plot
(B13_10M+NB-lot(IB)+ NB-lot(GB)_2C_QPSK - Port 2)



Plot 7-162. Occupied Bandwidth Plot
(B13_10M+NB-lot(IB)+ NB-lot(GB)_2C_QPSK - Port 1)

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DSS Ratio	Channel	Port	OBW (MHz)			
			QPSK	16QAM	64QAM	256QAM
LTE 9 : NR 1	Low	0	9.24	9.17	9.21	9.18
		1	9.20	9.19	9.17	9.13
		2	9.23	9.16	9.19	9.18
		3	9.21	9.18	9.20	9.19
	Middle	0	9.23	9.17	9.22	9.18
		1	9.22	9.15	9.18	9.19
		2	9.22	9.21	9.21	9.20
		3	9.21	9.18	9.21	9.17
	High	0	9.21	9.20	9.22	9.20
		1	9.23	9.14	9.19	9.17
		2	9.22	9.17	9.20	9.19
		3	9.21	9.21	9.19	9.21
LTE 8 : NR 2	Low	0	9.26	9.17	9.22	9.20
		1	9.26	9.20	9.22	9.19
		2	9.26	9.19	9.21	9.20
		3	9.26	9.17	9.24	9.21
	Middle	0	9.27	9.22	9.26	9.19
		1	9.24	9.18	9.24	9.21
		2	9.26	9.18	9.21	9.20
		3	9.25	9.19	9.26	9.18
	High	0	9.26	9.20	9.21	9.20
		1	9.26	9.18	9.23	9.22
		2	9.26	9.19	9.23	9.20
		3	9.25	9.18	9.23	9.23
LTE 7 : NR 3	Low	0	9.27	9.19	9.26	9.23
		1	9.27	9.19	9.21	9.22
		2	9.28	9.20	9.25	9.22
		3	9.28	9.19	9.24	9.23
	Middle	0	9.27	9.18	9.22	9.23
		1	9.27	9.22	9.24	9.23
		2	9.27	9.22	9.22	9.24
		3	9.28	9.19	9.26	9.23
	High	0	9.27	9.19	9.22	9.21
		1	9.27	9.18	9.23	9.23
		2	9.27	9.20	9.24	9.22
		3	9.28	9.19	9.23	9.22
LTE 6 : NR 4	Low	0	9.29	9.20	9.24	9.23
		1	9.27	9.20	9.23	9.23
		2	9.29	9.19	9.26	9.24
		3	9.28	9.20	9.25	9.22
	Middle	0	9.29	9.21	9.25	9.22
		1	9.28	9.20	9.25	9.22
		2	9.28	9.19	9.25	9.24
		3	9.28	9.20	9.25	9.23
	High	0	9.27	9.23	9.25	9.23
		1	9.28	9.22	9.26	9.24
		2	9.27	9.23	9.24	9.23
		3	9.29	9.22	9.25	9.23

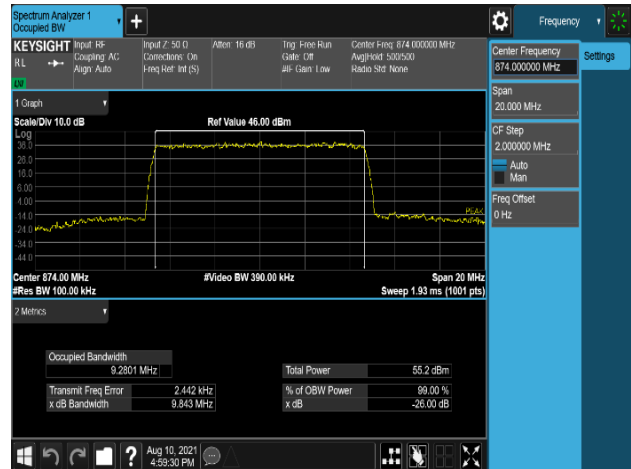
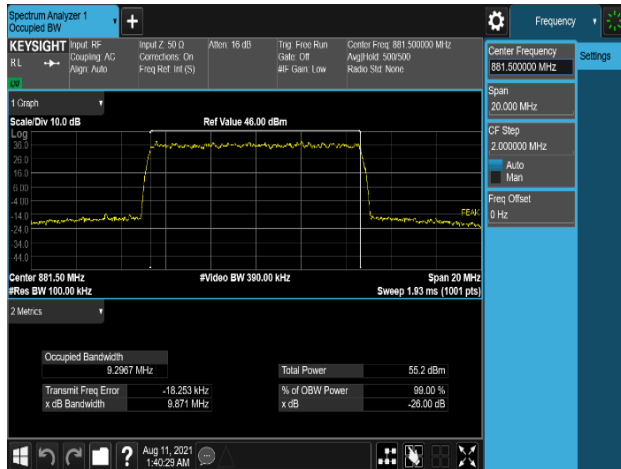
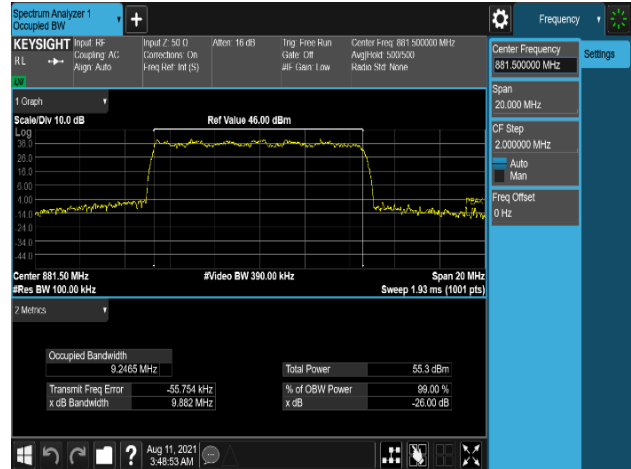
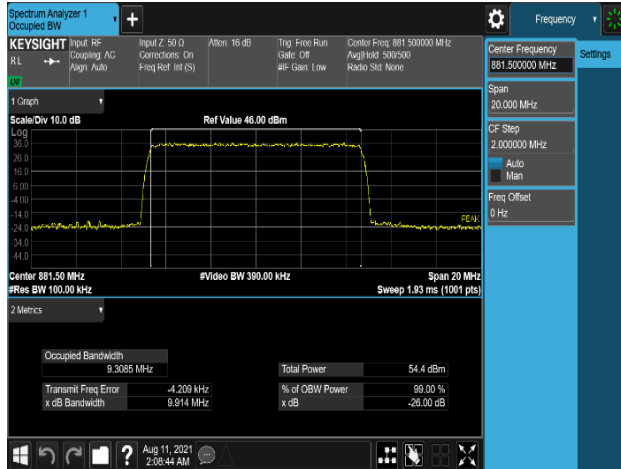
FCC ID: A3LRF4440D-13A		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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LTE 5 : NR 5	Low	0	9.28	9.20	9.27	9.25
		1	9.29	9.20	9.24	9.25
		2	9.28	9.20	9.25	9.25
		3	9.28	9.20	9.26	9.25
	Middle	0	9.29	9.21	9.26	9.23
		1	9.29	9.20	9.26	9.25
		2	9.29	9.22	9.27	9.22
		3	9.28	9.22	9.26	9.25
	High	0	9.29	9.21	9.23	9.23
		1	9.27	9.22	9.26	9.24
		2	9.27	9.22	9.25	9.25
		3	9.29	9.22	9.25	9.23
LTE 4 : NR 6	Low	0	9.30	9.22	9.27	9.25
		1	9.29	9.21	9.28	9.26
		2	9.29	9.22	9.27	9.26
		3	9.29	9.21	9.28	9.25
	Middle	0	9.29	9.22	9.28	9.25
		1	9.29	9.23	9.27	9.26
		2	9.30	9.21	9.30	9.26
		3	9.30	9.21	9.29	9.26
	High	0	9.29	9.20	9.25	9.24
		1	9.29	9.21	9.26	9.26
		2	9.29	9.23	9.26	9.24
		3	9.29	9.21	9.26	9.25
LTE 3 : NR 7	Low	0	9.30	9.22	9.27	9.26
		1	9.30	9.23	9.27	9.27
		2	9.30	9.20	9.27	9.26
		3	9.30	9.21	9.26	9.25
	Middle	0	9.31	9.23	9.27	9.26
		1	9.30	9.22	9.27	9.26
		2	9.30	9.21	9.26	9.25
		3	9.30	9.22	9.29	9.26
	High	0	9.30	9.21	9.27	9.23
		1	9.29	9.24	9.26	9.23
		2	9.29	9.22	9.26	9.24
		3	9.29	9.22	9.26	9.25
LTE 2 : NR 8	Low	0	9.30	9.22	9.29	9.28
		1	9.30	9.21	9.27	9.27
		2	9.30	9.22	9.28	9.28
		3	9.30	9.21	9.27	9.27
	Middle	0	9.30	9.23	9.29	9.27
		1	9.31	9.25	9.28	9.27
		2	9.30	9.24	9.28	9.28
		3	9.30	9.22	9.29	9.27
	High	0	9.24	9.20	9.24	9.23
		1	9.25	9.19	9.24	9.23
		2	9.25	9.20	9.24	9.25
		3	9.25	9.21	9.25	9.23

Table 7-26. Occupied Bandwidth Summary Data (B5_10M(DSS)_1C_4T)

Note: Test result is no big difference depending on DSS Ratio. So, the only worst-ratio plots are included in this report.

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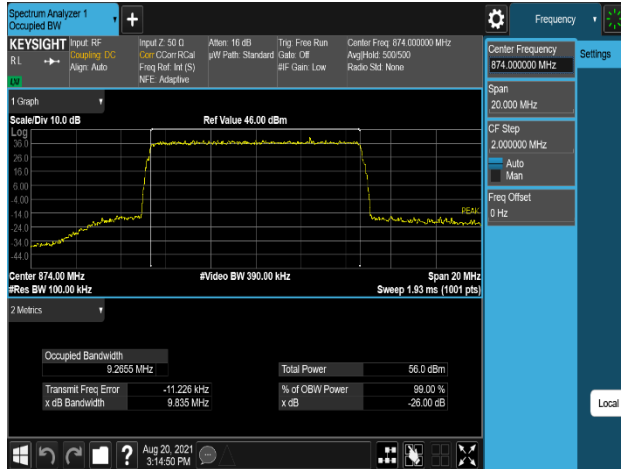


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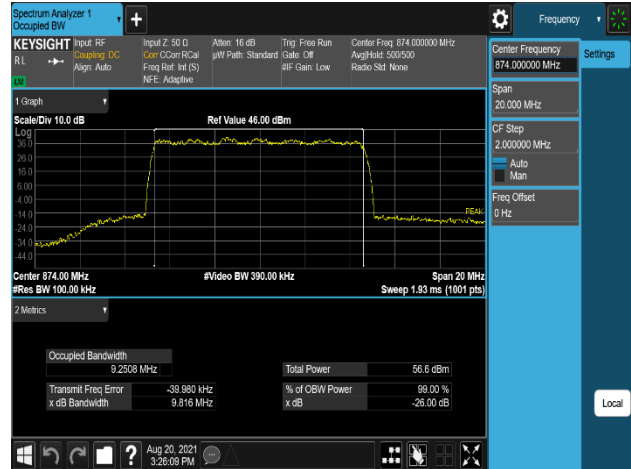
DSS Ratio	Channel	Port	OBW (MHz)			
			QPSK	16QAM	64QAM	256QAM
LTE 5 : NR 5	Low	0	9.27	9.25	9.25	9.24
		1	9.27	9.24	9.27	9.23
	Middle	0	9.27	9.22	9.25	9.24
		1	9.27	9.22	9.27	9.25
	High	0	9.28	9.21	9.25	9.24
		1	9.26	9.23	9.26	9.23

Table 7-27. Occupied Bandwidth Summary Data (B5_10M(DSS)_1C_2T)

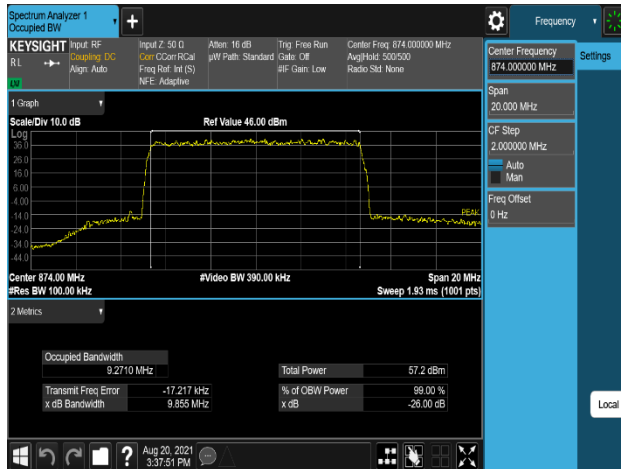
FCC ID: A3LRF4440D-13A	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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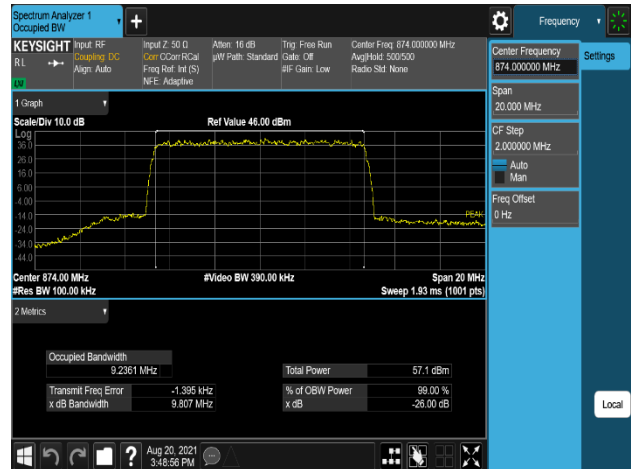
Plot 7-167. Occupied Bandwidth Plot
(B5_10M(DSS)_1C__QPSK - Low Channel, Port 0)



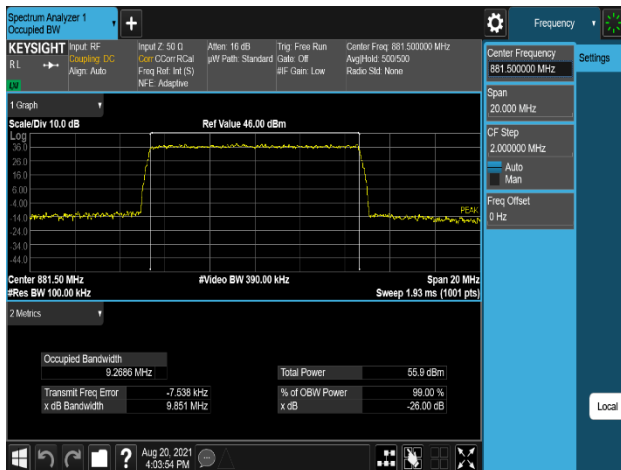
Plot 7-168. Occupied Bandwidth Plot
(B5_10M(DSS)_1C__16QAM - Low Channel, Port 0)



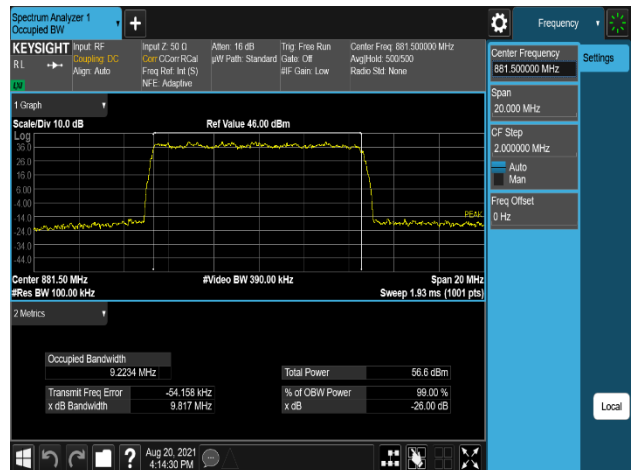
Plot 7-169. Occupied Bandwidth Plot
(B5_10M(DSS)_1C__64QAM - Low Channel, Port 1)



Plot 7-170. Occupied Bandwidth Plot
(B5_10M(DSS)_1C__256QAM - Low Channel, Port 0)

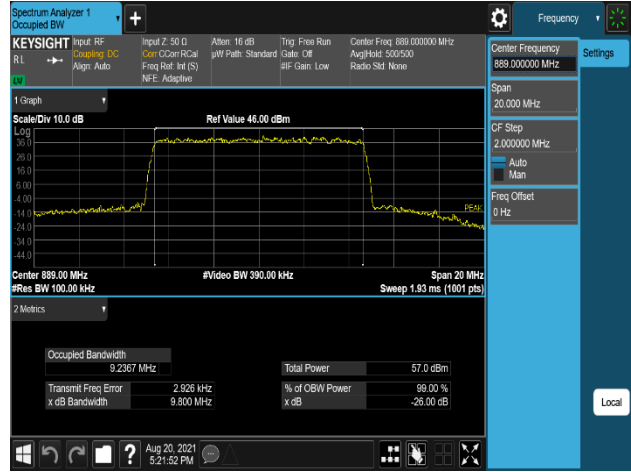
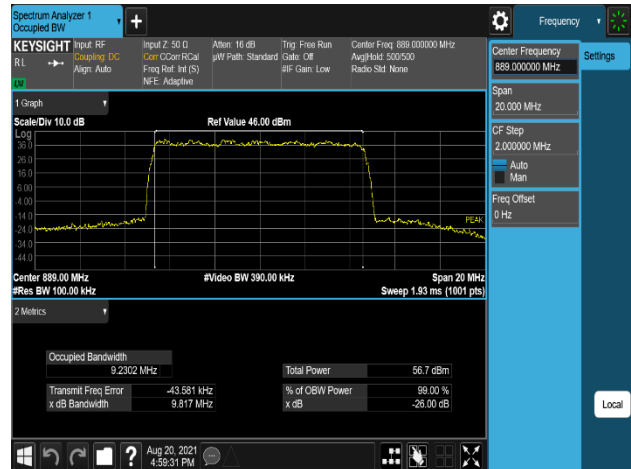
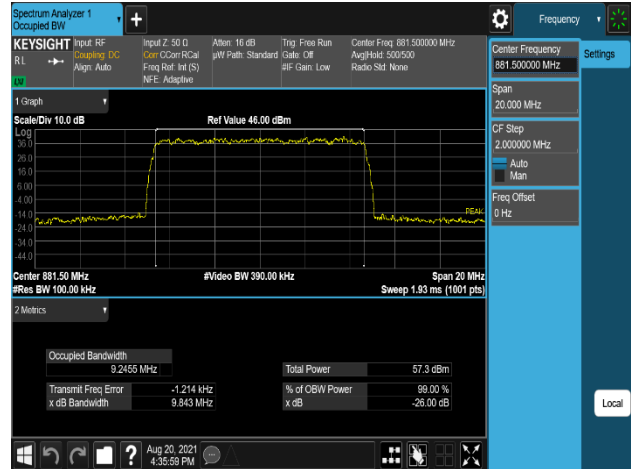
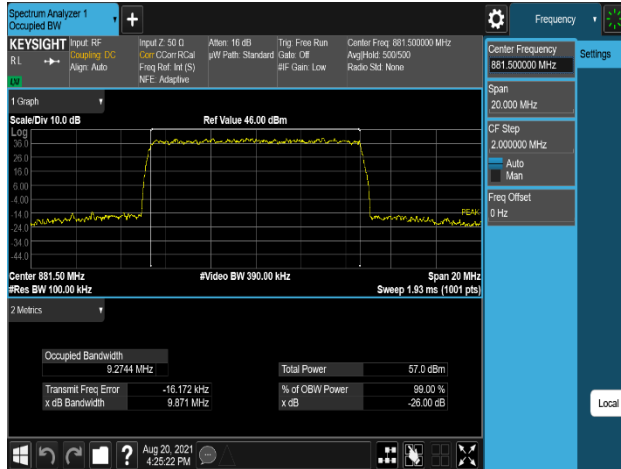


Plot 7-171. Occupied Bandwidth Plot
(B5_10M(DSS)_1C__QPSK - Mid Channel, Port 0)



Plot 7-172. Occupied Bandwidth Plot
(B5_10M(DSS)_1C__16QAM - Mid Channel, Port 0)

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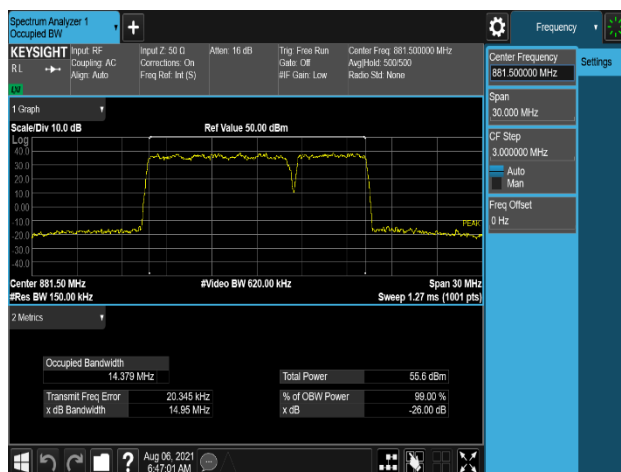
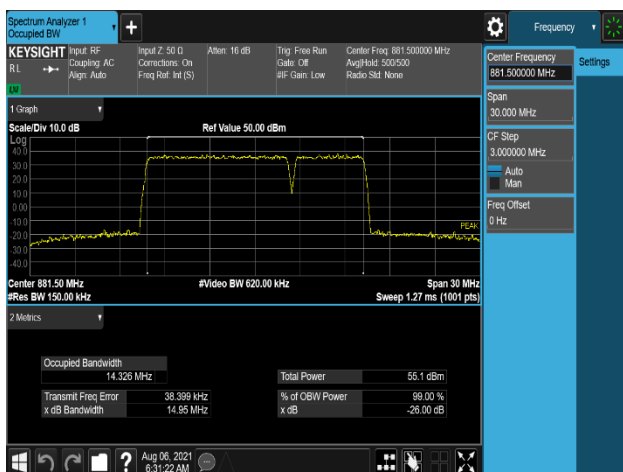
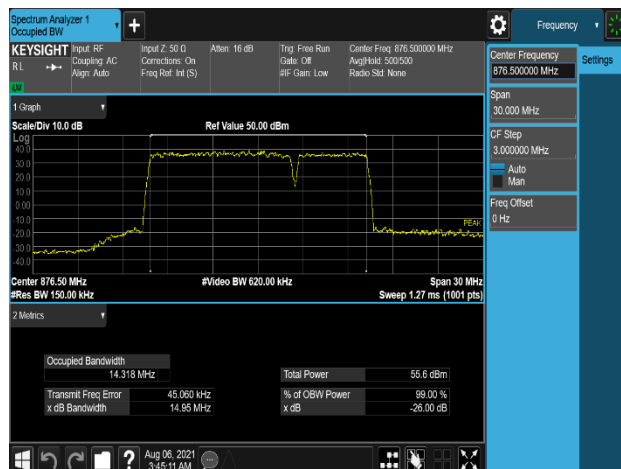
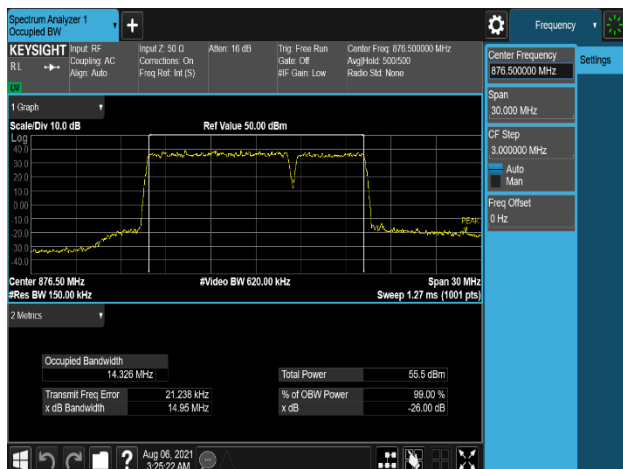
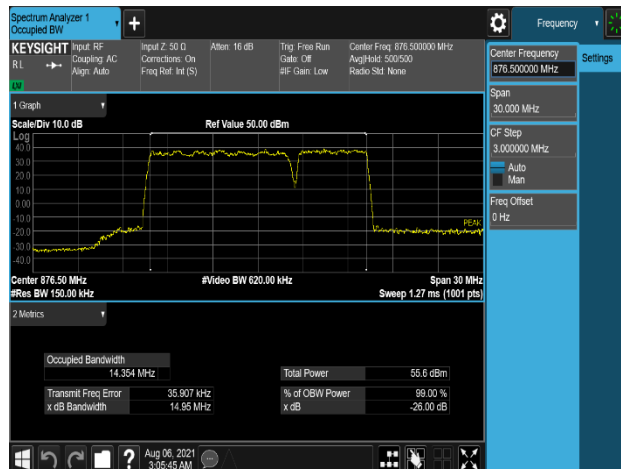
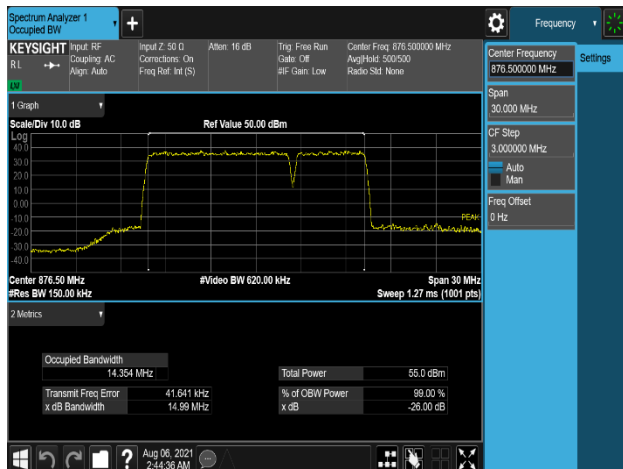
DSS Ratio	Channel	Port	OBW (MHz)			
			QPSK	16QAM	64QAM	256QAM
LTE 5 : NR 5	Low	0	14.34	14.35	14.33	14.29
		1	14.35	14.35	14.31	14.32
		2	14.33	14.35	14.31	14.29
		3	14.34	14.30	14.28	14.30
	Middle	0	14.30	14.36	14.31	14.28
		1	14.33	14.33	14.29	14.31
		2	14.31	14.38	14.28	14.31
		3	14.32	14.32	14.28	14.29
	High	0	14.32	14.19	14.31	14.29
		1	14.30	14.18	14.31	14.29
		2	14.33	14.18	14.30	14.30
		3	14.33	14.19	14.28	14.28

Table 7-28. Occupied Bandwidth Summary Data (B5_10M(DSS)+5M_2C_4T)

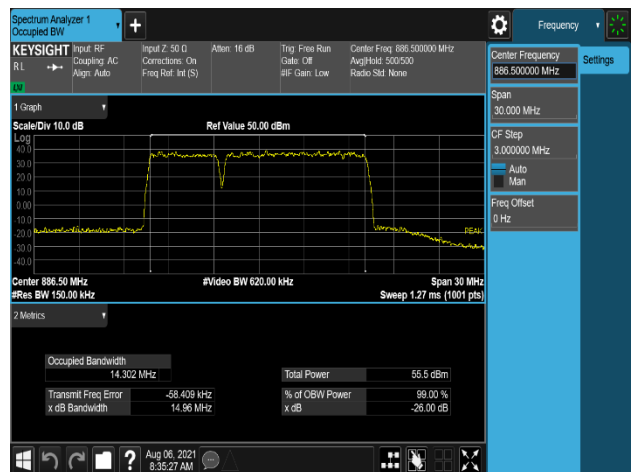
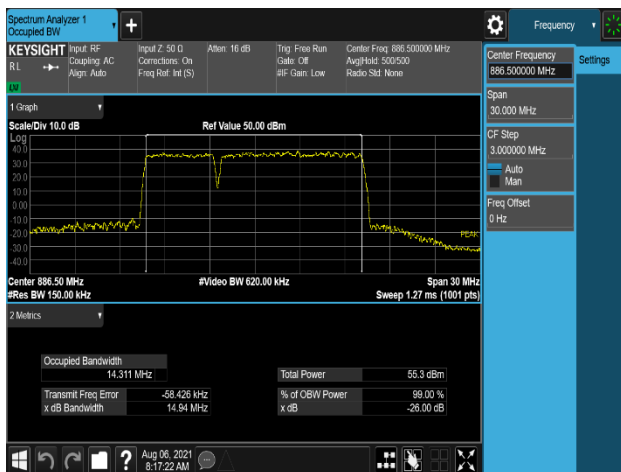
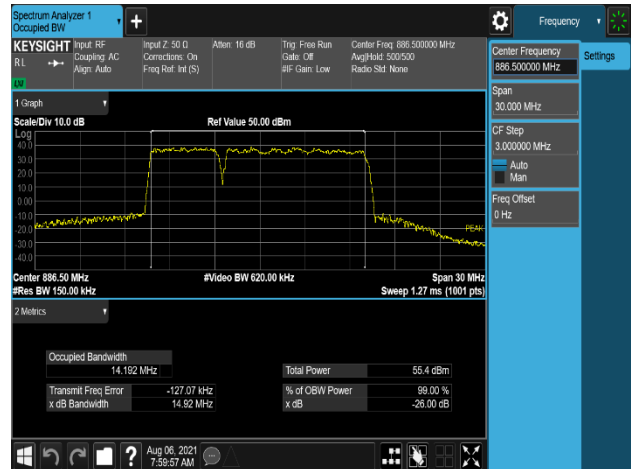
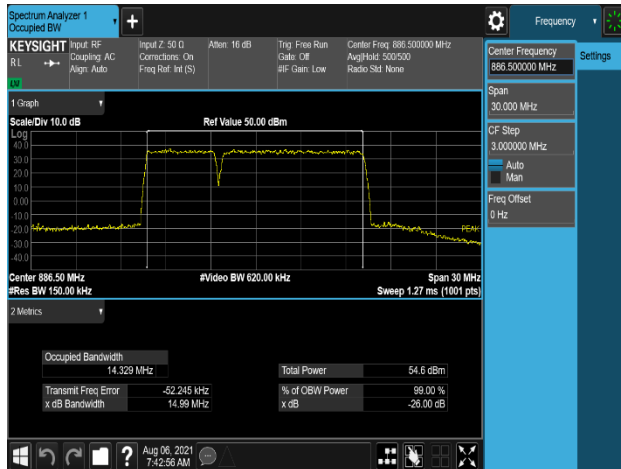
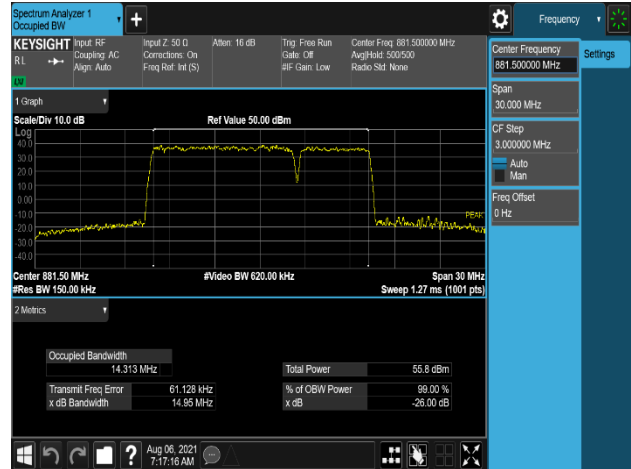
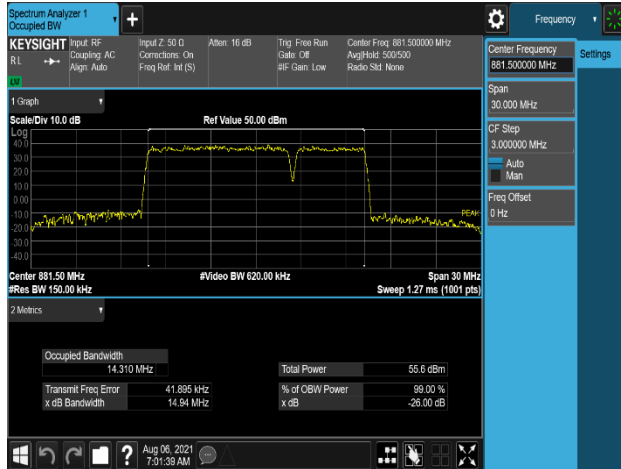
DSS Ratio	Channel	Port	OBW (MHz)			
			QPSK	16QAM	64QAM	256QAM
LTE 5 : NR 5	Low	0	19.02	19.08	18.99	19.03
		1	19.03	19.09	19.01	19.02
		2	19.06	19.06	19.06	18.99
		3	19.03	19.11	19.03	19.04
	Middle	0	19.07	19.12	19.02	19.05
		1	19.04	19.10	19.00	19.03
		2	19.02	19.07	19.03	19.03
		3	19.04	19.09	19.07	19.01
	High	0	19.03	18.90	19.01	18.99
		1	19.03	18.89	19.01	19.00
		2	19.04	18.88	19.03	18.99
		3	19.01	18.89	19.03	18.97

Table 7-29. Occupied Bandwidth Summary Data (B5_10M(DSS)+10M_2C_4T)

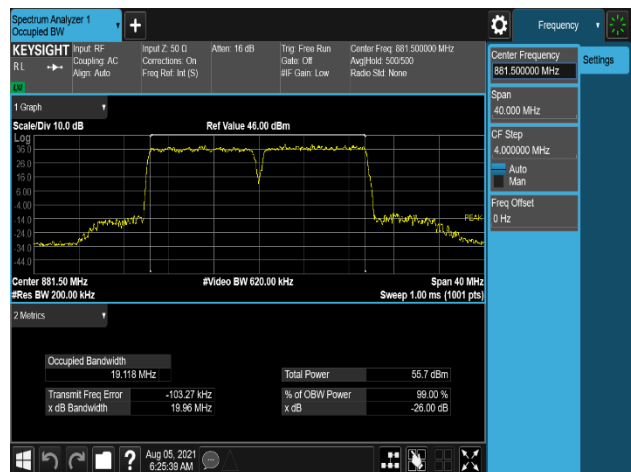
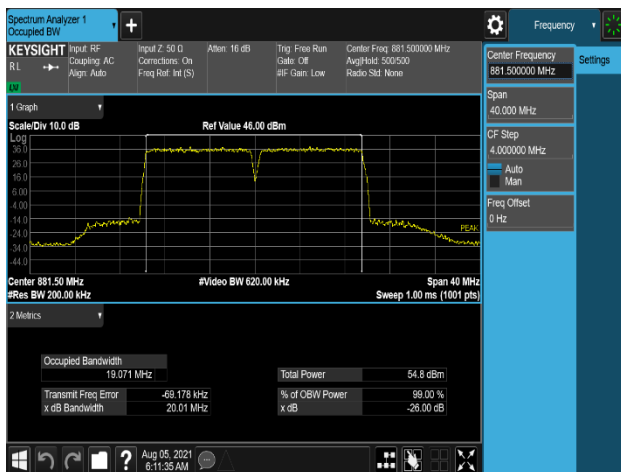
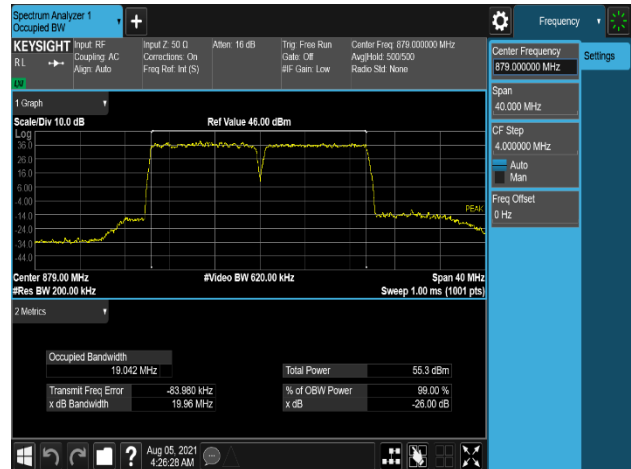
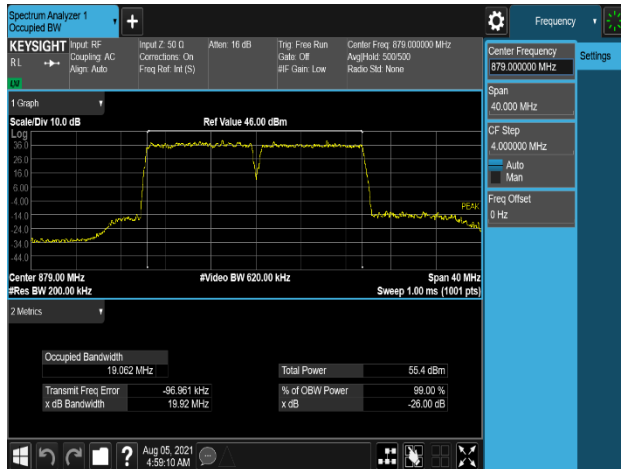
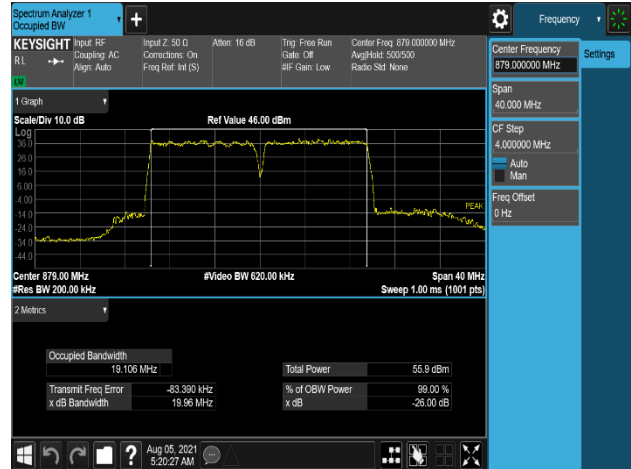
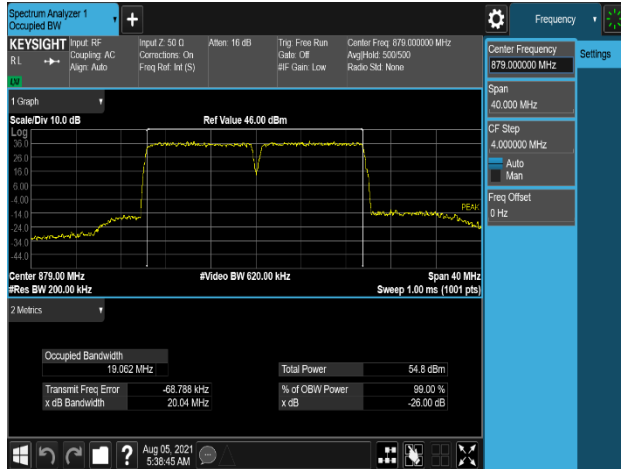
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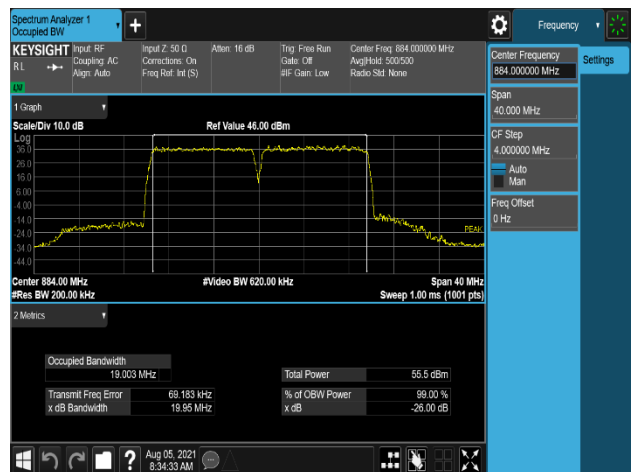
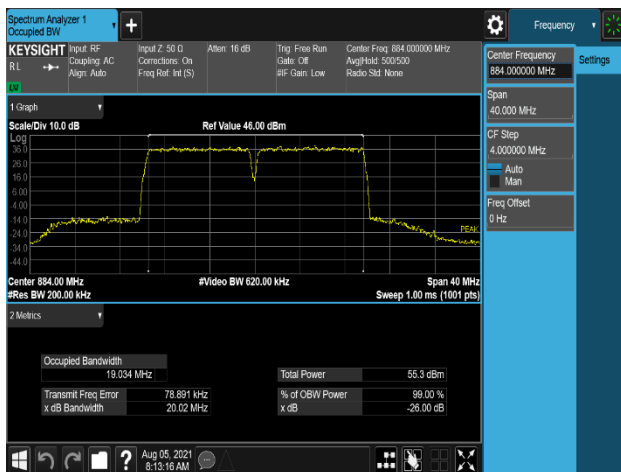
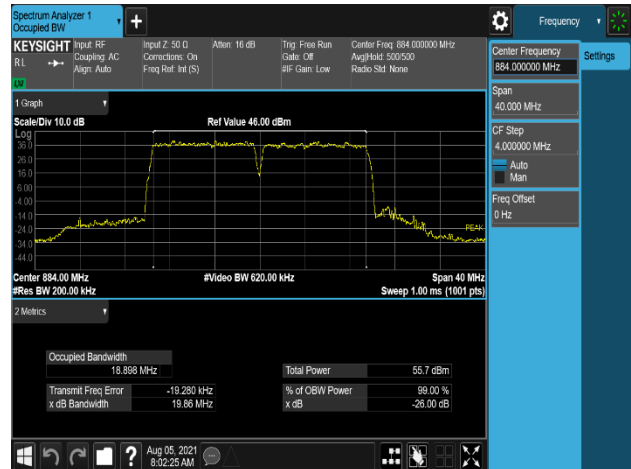
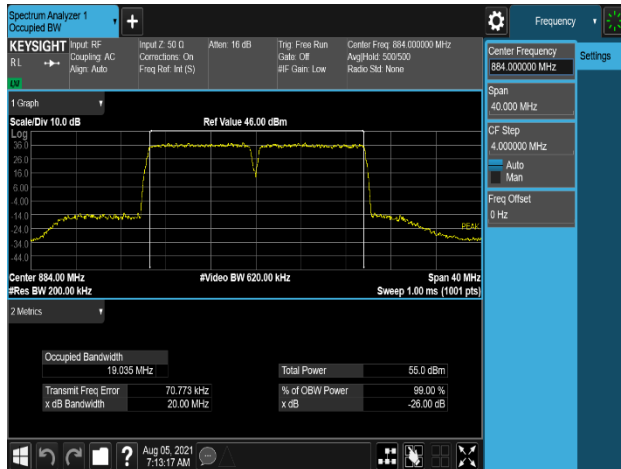
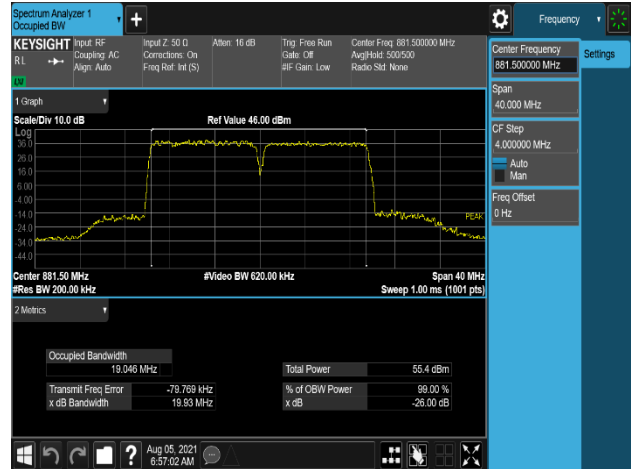
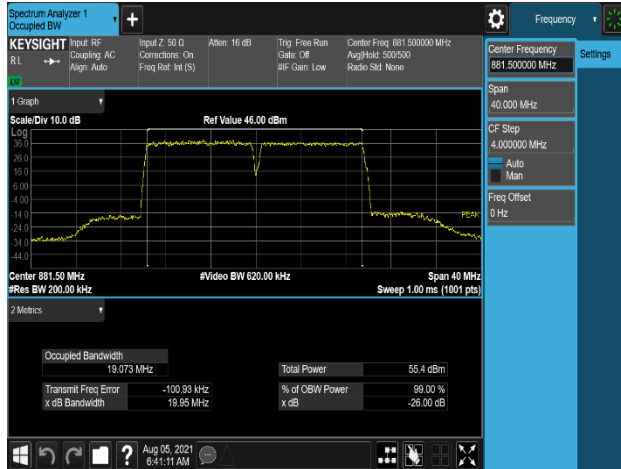
FCC ID: A3LRF4440D-13A	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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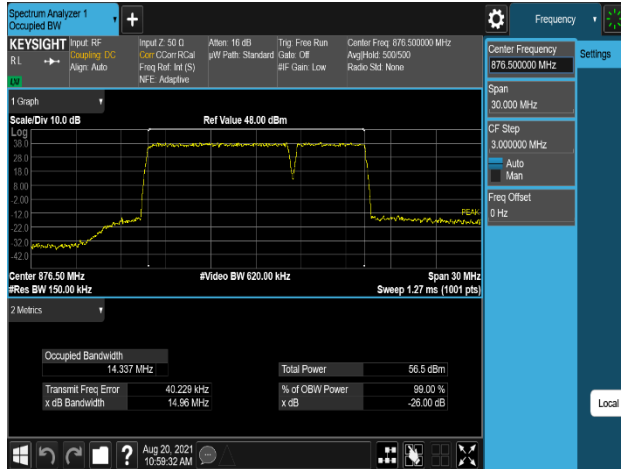
DSS Ratio	Channel	Port	OBW (MHz)			
			QPSK	16QAM	64QAM	256QAM
LTE 5 : NR 5	Low	0	14.30	14.31	14.31	14.30
		1	14.34	14.35	14.32	14.28
	Middle	0	14.31	14.35	14.31	14.29
		1	14.32	14.35	14.33	14.30
	High	0	14.29	14.17	14.18	14.31
		1	14.31	14.19	14.23	14.29

Table 7-30. Occupied Bandwidth Summary Data (B5_10M(DSS)+5M_2C_2T)

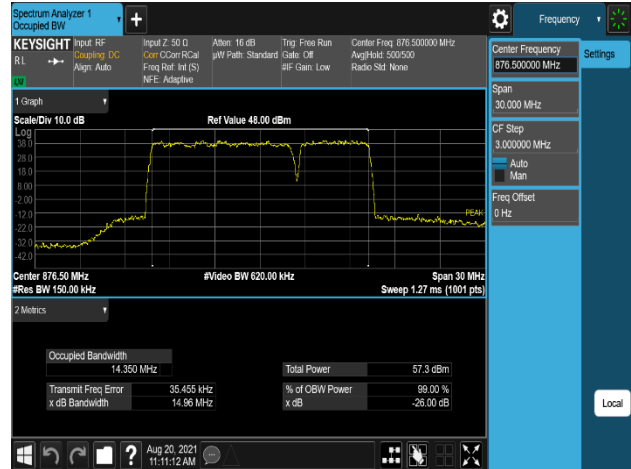
DSS Ratio	Channel	Port	OBW (MHz)			
			QPSK	16QAM	64QAM	256QAM
LTE 5 : NR 5	Low	0	19.03	19.08	19.02	19.01
		1	19.04	19.05	19.00	18.97
	Middle	0	19.04	19.04	19.04	19.02
		1	19.03	19.05	19.02	19.01
	High	0	18.98	18.93	19.00	19.00
		1	19.00	18.92	19.02	18.99

Table 7-31. Occupied Bandwidth Summary Data (B5_10M(DSS)+10M_2C_2T)

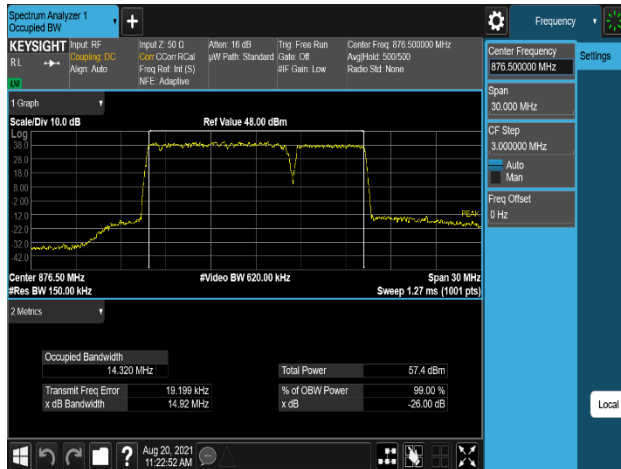
FCC ID: A3LRF4440D-13A	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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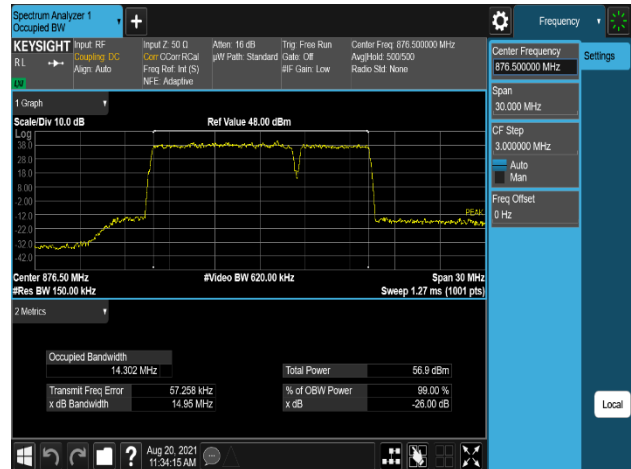
Plot 7-203. Occupied Bandwidth Plot
(B5_10M(DSS)+5M_2C_QPSK - Low Channel, Port 1)



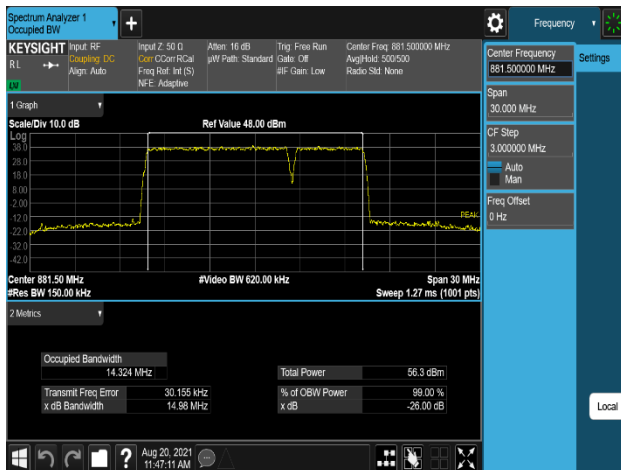
Plot 7-204. Occupied Bandwidth Plot
(B5_10M(DSS)+5M_2C_16QAM - Low Channel, Port 1)



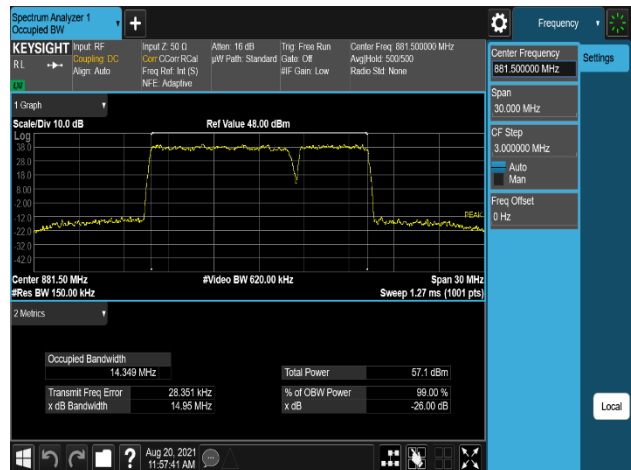
Plot 7-205. Occupied Bandwidth Plot
(B5_10M(DSS)+5M_2C_64QAM - Low Channel, Port 1)



Plot 7-206. Occupied Bandwidth Plot
(B5_10M(DSS)+5M_2C_256QAM - Low Channel, Port 0)



Plot 7-207. Occupied Bandwidth Plot
(B5_10M(DSS)+5M_2C_QPSK - Mid Channel, Port 1)



Plot 7-208. Occupied Bandwidth Plot
(B5_10M(DSS)+5M_2C_16QAM - Mid Channel, Port 0)

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