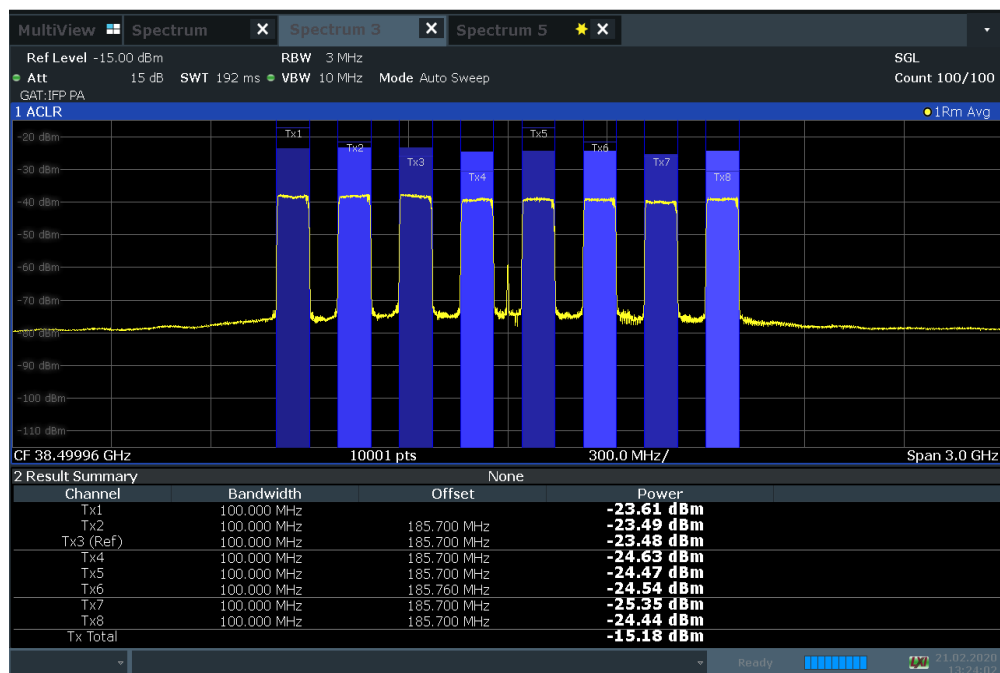


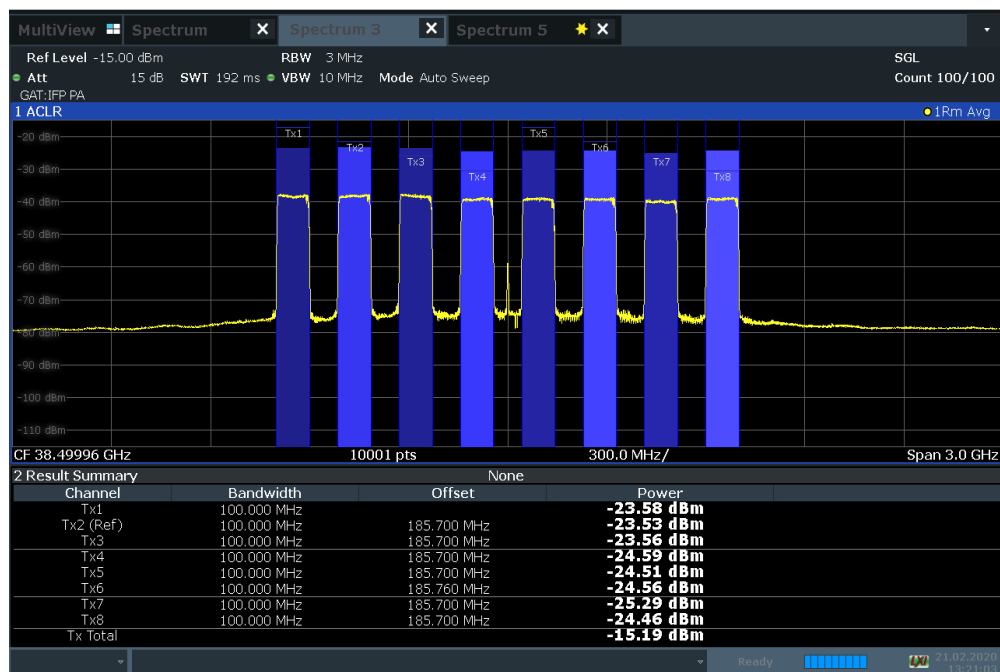
ACLRRResults



13:24:03 21.02.2020

Plot 7-149. Antenna B EIRP Density Plot (100MHz BW 8CC NC 16QAM Mid Channel)

ACLRRResults

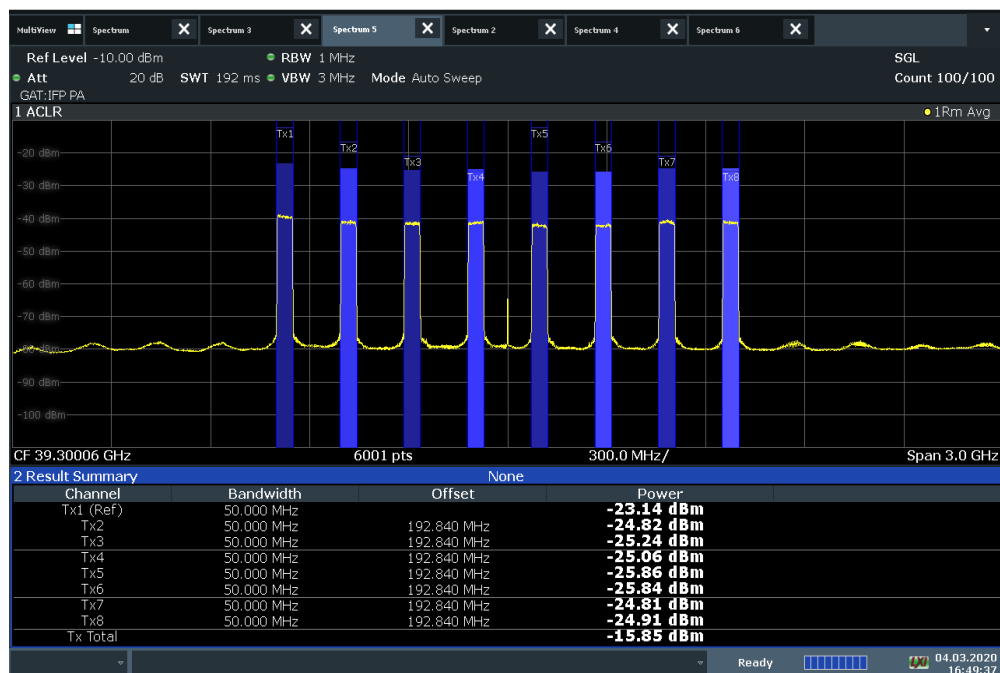


13:21:03 21.02.2020

Plot 7-150. Antenna B EIRP Density Plot (100MHz BW 8CC NC 64QAM Mid Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 102 of 360

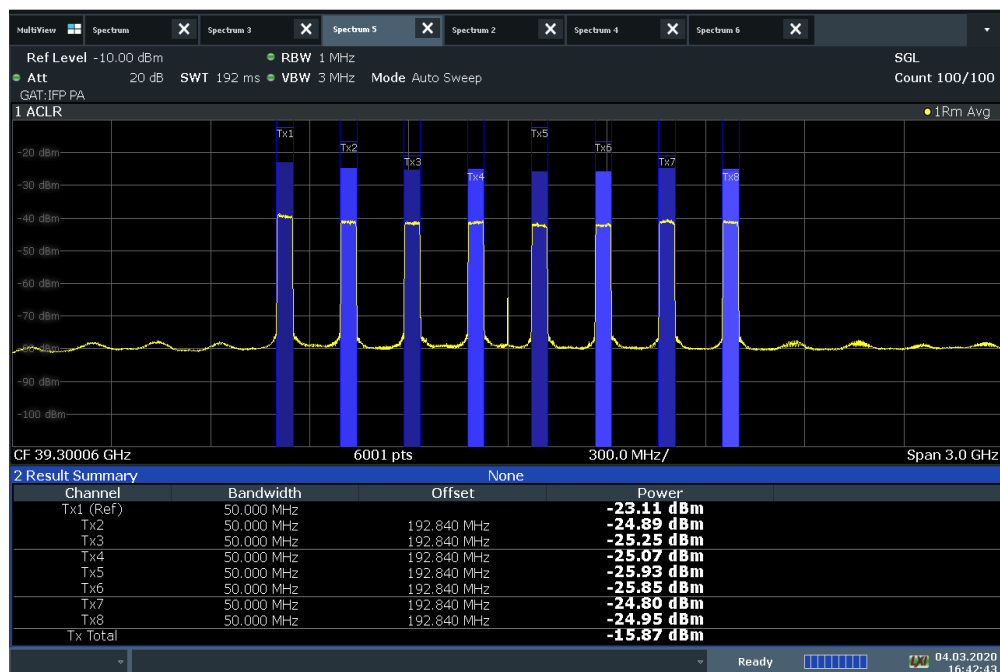
ACLRRResults



16:49:37 04.03.2020

Plot 7-151. Antenna B EIRP Density Plot (50MHz BW 8CC NC QPSK High Channel)

ACLRRResults

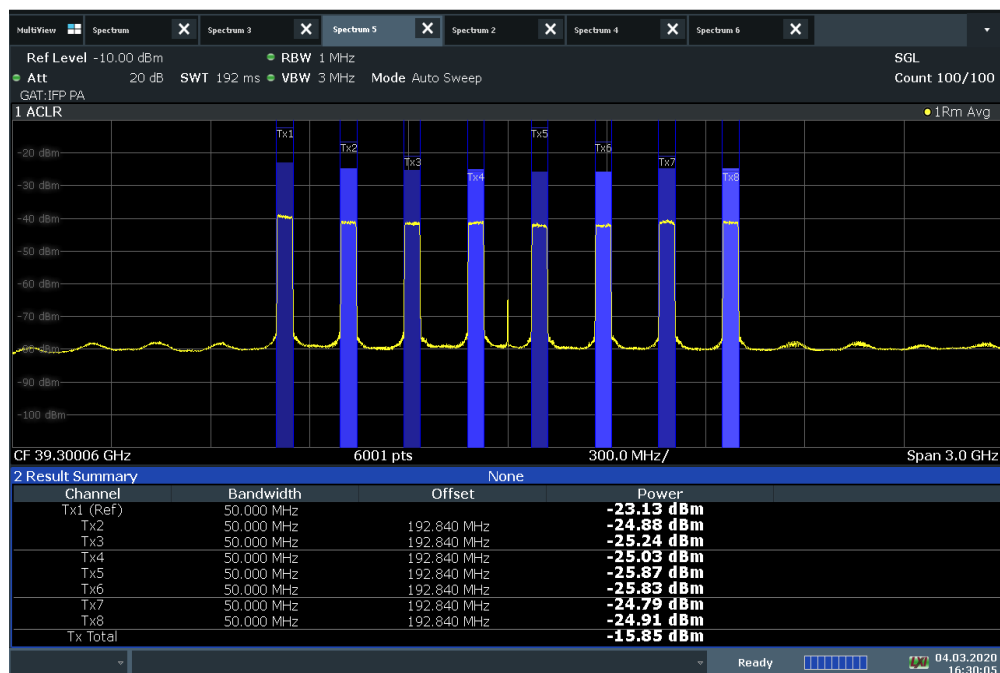


16:42:43 04.03.2020

Plot 7-152. Antenna B EIRP Density Plot (50MHz BW 8CC NC 16QAM High Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 103 of 360

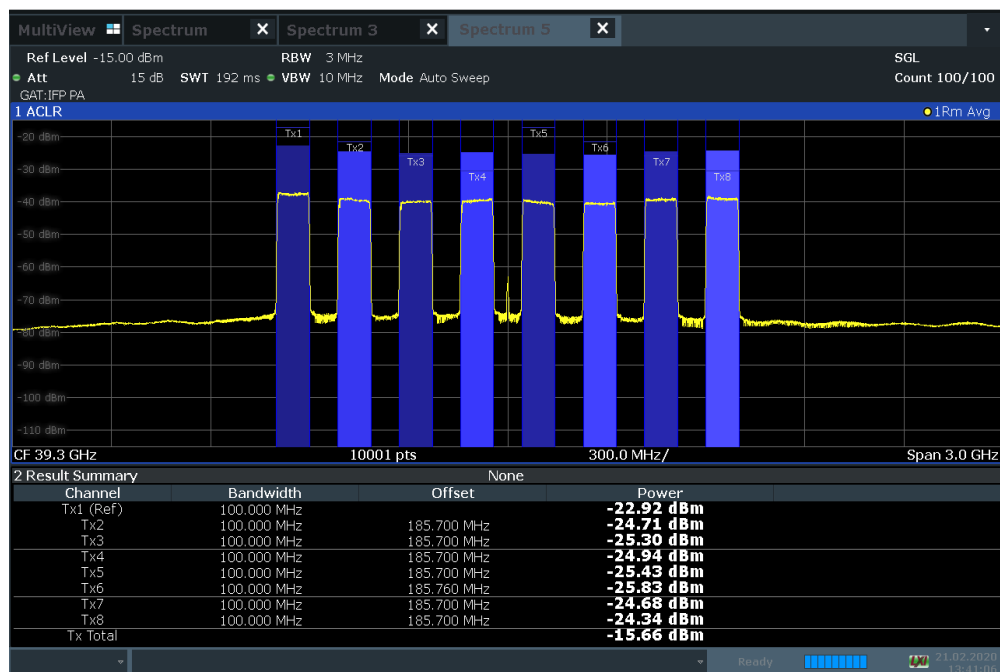
ACLRRResults



16:30:05 04.03.2020

Plot 7-153. Antenna B EIRP Density Plot (50MHz BW 8CC NC 64QAM High Channel)

ACLRRResults

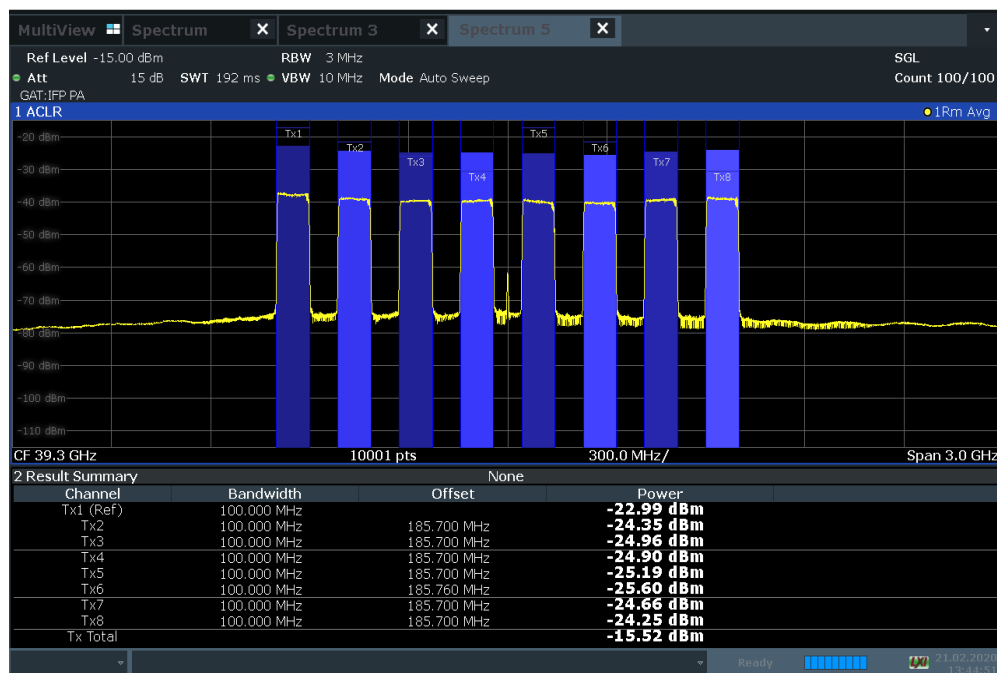


13:41:07 21.02.2020

Plot 7-154. Antenna B EIRP Density Plot (100MHz BW 8CC NC QPSK High Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 104 of 360

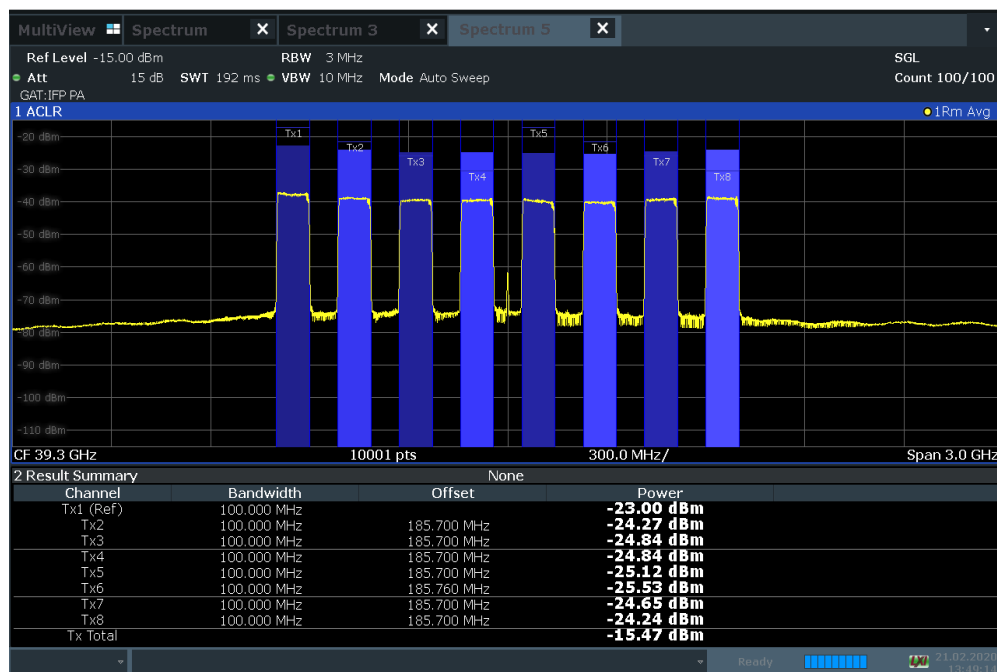
ACLRRResults



13:44:52 21.02.2020

Plot 7-155. Antenna B EIRP Density Plot (100MHz BW 8CC NC 16QAM High Channel)

ACLRRResults



13:49:15 21.02.2020

Plot 7-156. Antenna B EIRP Density Plot (100MHz BW 8CC NC 64QAM High Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 105 of 360

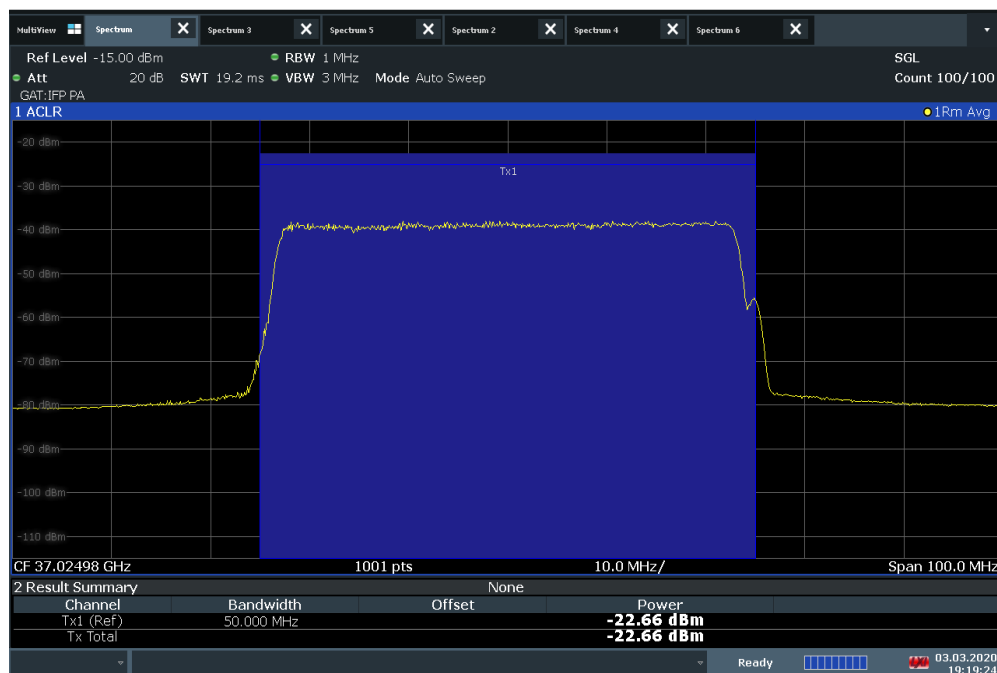
7.3.3 Antenna C EIRP Density

Antenna	Bandwidth	Channel	CCs active	Modulation	Horn Angle	Horn Height	Turntable Azimuth	Analyzer Level	AFCL	Average e.i.r.p. PSD	PSD Limit	Margin
	[MHz]				[degrees]	[cm]	[degrees]	[dBm]	[dB/m]	[dBm/100MHz]	[dBm/100MHz]	[dB]
C	50	Low	0	QPSK	135.0	155	9	-22.66	57.22	48.10	75.00	-29.91
		Low	0	16QAM	135.0	155	9	-22.73	57.22	48.03	75.00	-29.98
		Low	0	64QAM	135.0	155	9	-22.66	57.22	48.10	75.00	-29.91
	100	Low	0	QPSK	135.0	155	9	-18.95	57.22	48.80	75.00	-26.20
		Low	0	16QAM	135.0	155	9	-18.94	57.22	48.81	75.00	-26.19
		Low	0	64QAM	135.0	155	9	-18.95	57.22	48.80	75.00	-26.20
	50	Mid	4	QPSK	135.0	155	9	-22.69	57.17	48.02	75.00	-29.99
		Mid	4	16QAM	135.0	155	9	-22.67	57.17	48.04	75.00	-29.97
		Mid	4	64QAM	135.0	155	9	-22.65	57.17	48.06	75.00	-29.95
	100	Mid	4	QPSK	135.0	155	9	-19.19	57.17	48.51	75.00	-26.49
		Mid	4	16QAM	135.0	155	9	-19.22	57.17	48.48	75.00	-26.52
		Mid	4	64QAM	135.0	155	9	-19.25	57.17	48.45	75.00	-26.55
	50	High	7	QPSK	135.0	155	9	-23.50	58.95	48.99	75.00	-29.02
		High	7	16QAM	135.0	155	9	-23.49	58.95	49.00	75.00	-29.01
		High	7	64QAM	135.0	155	9	-23.49	58.95	49.00	75.00	-29.01
	100	High	7	QPSK	135.0	155	9	-19.73	58.95	49.75	75.00	-25.25
		High	7	16QAM	135.0	155	9	-19.57	58.95	49.91	75.00	-25.09
		High	7	64QAM	135.0	155	9	-19.57	58.95	49.91	75.00	-25.09
	50	Low	0-7	QPSK	135.0	155	9	-24.81	57.22	45.95	75.00	-32.06
		Low	0-7	16QAM	135.0	155	9	-24.74	57.22	46.02	75.00	-31.99
		Low	0-7	64QAM	135.0	155	9	-24.81	57.22	45.95	75.00	-32.06
	100	Low	0-7	QPSK	135.0	155	9	-24.03	57.22	43.72	75.00	-31.28
		Low	0-7	16QAM	135.0	155	9	-24.02	57.22	43.73	75.00	-31.27
		Low	0-7	64QAM	135.0	155	9	-24.04	57.22	43.71	75.00	-31.29
	50	Mid	0-7	QPSK	135.0	155	9	-24.12	57.17	46.59	75.00	-31.42
		Mid	0-7	16QAM	135.0	155	9	-24.15	57.17	46.56	75.00	-31.45
		Mid	0-7	64QAM	135.0	155	9	-24.16	57.17	46.55	75.00	-31.46
	100	Mid	0-7	QPSK	135.0	155	9	-23.11	57.17	44.59	75.00	-30.41
		Mid	0-7	16QAM	135.0	155	9	-23.25	57.17	44.45	75.00	-30.55
		Mid	0-7	64QAM	135.0	155	9	-23.24	57.17	44.46	75.00	-30.54
	50	High	0-7	QPSK	135.0	155	9	-25.25	58.95	47.24	75.00	-30.77
		High	0-7	16QAM	135.0	155	9	-25.25	58.95	47.24	75.00	-30.77
		High	0-7	64QAM	135.0	155	9	-25.25	58.95	47.24	75.00	-30.77
	100	High	0-7	QPSK	135.0	155	9	-23.83	58.95	45.65	75.00	-29.35
		High	0-7	16QAM	135.0	155	9	-23.83	58.95	45.65	75.00	-29.35
		High	0-7	64QAM	135.0	155	9	-23.81	58.95	45.67	75.00	-29.33
	50	Low	0-7(NC)	QPSK	135.0	155	9	-23.92	57.22	46.84	75.00	-31.17
		Low	0-7(NC)	16QAM	135.0	155	9	-23.91	57.22	46.85	75.00	-31.16
		Low	0-7(NC)	64QAM	135.0	155	9	-23.93	57.22	46.83	75.00	-31.18
	100	Low	0-7(NC)	QPSK	135.0	155	9	-23.57	57.22	44.18	75.00	-30.82
		Low	0-7(NC)	16QAM	135.0	155	9	-23.55	57.22	44.20	75.00	-30.80
		Low	0-7(NC)	64QAM	135.0	155	9	-23.61	57.22	44.14	75.00	-30.86
	50	Mid	0-7(NC)	QPSK	135.0	155	9	-23.98	57.17	46.73	75.00	-31.28
		Mid	0-7(NC)	16QAM	135.0	155	9	-24.03	57.17	46.68	75.00	-31.33
		Mid	0-7(NC)	64QAM	135.0	155	9	-24.05	57.17	46.66	75.00	-31.35
	100	Mid	0-7(NC)	QPSK	135.0	155	9	-24.07	57.17	43.63	75.00	-31.37
		Mid	0-7(NC)	16QAM	135.0	155	9	-24.15	57.17	43.55	75.00	-31.45
		Mid	0-7(NC)	64QAM	135.0	155	9	-24.15	57.17	43.55	75.00	-31.45
	50	High	0-7(NC)	QPSK	135.0	155	9	-23.72	58.95	48.77	75.00	-29.24
		High	0-7(NC)	16QAM	135.0	155	9	-23.74	58.95	48.75	75.00	-29.26
		High	0-7(NC)	64QAM	135.0	155	9	-23.73	58.95	48.76	75.00	-29.25
	100	High	0-7(NC)	QPSK	135.0	155	9	-23.17	58.95	46.31	75.00	-28.69
		High	0-7(NC)	16QAM	135.0	155	9	-23.35	58.95	46.13	75.00	-28.87
		High	0-7(NC)	64QAM	135.0	155	9	-23.36	58.95	46.12	75.00	-28.88

Table 7-9. Antenna C Power Density Summary Data

FCC ID: A3LAT1K02-A10		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 106 of 360

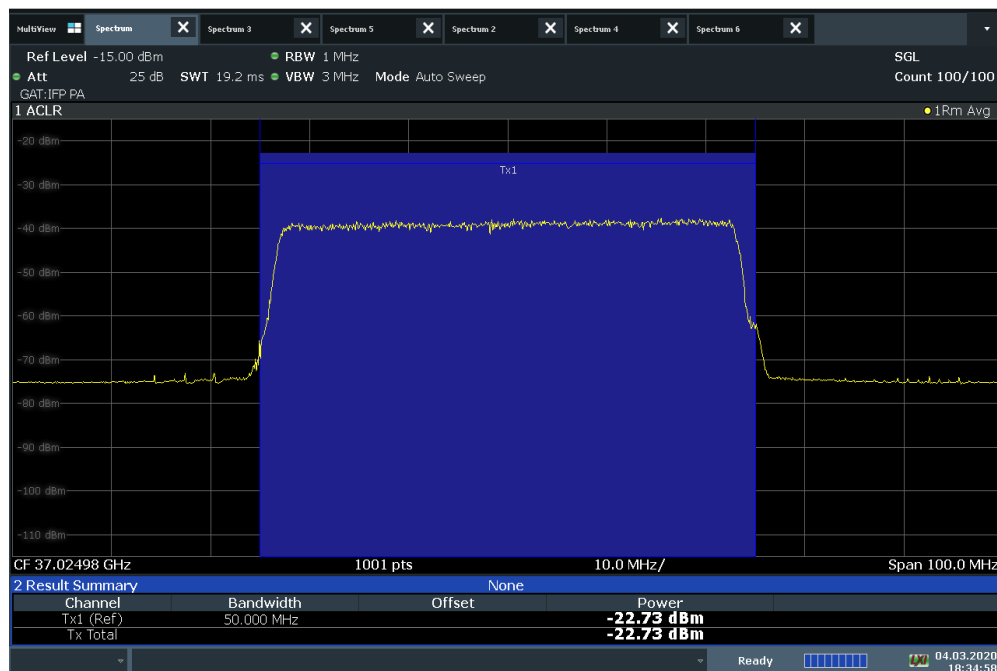
ACLRResults



19:19:24 03.03.2020

Plot 7-157. Antenna C EIRP Density Plot (50MHz BW 1CC QPSK Low Channel)

ACLRResults

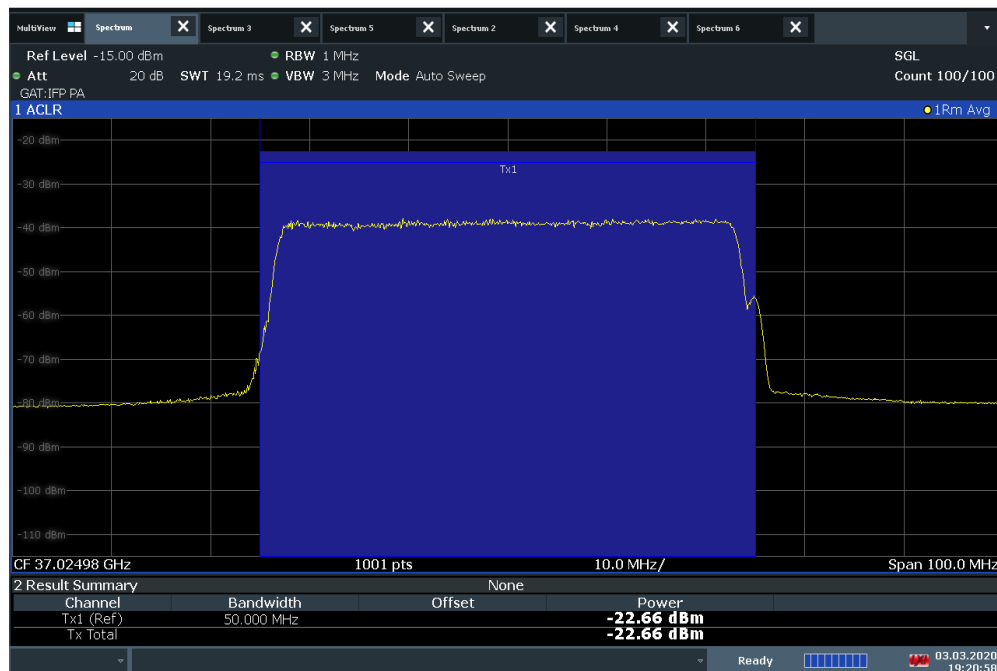


18:34:59 04.03.2020

Plot 7-158. Antenna C EIRP Density Plot (50MHz BW 1CC 16QAM Low Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 107 of 360

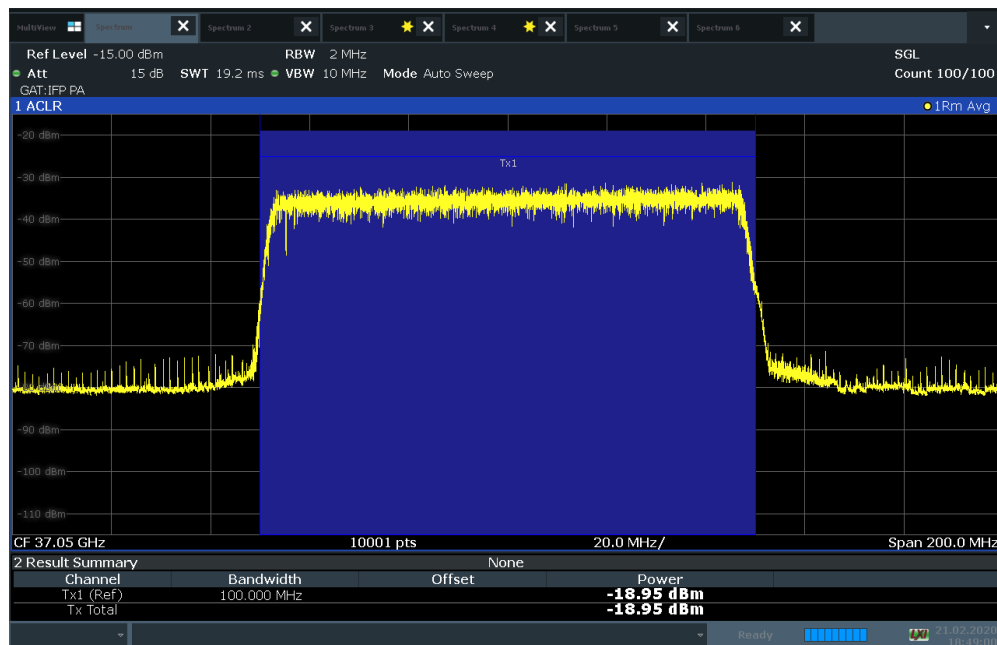
ACLRResults



19:20:59 03.03.2020

Plot 7-159. Antenna C EIRP Density Plot (50MHz BW 1CC 64QAM Low Channel)

ACLRResults

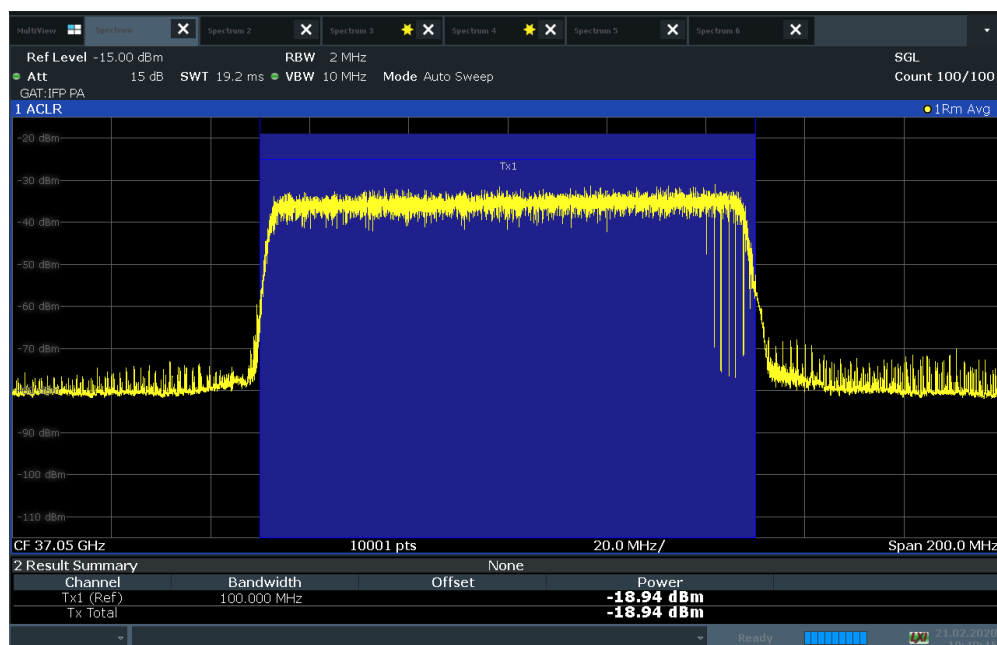


18:49:01 21.02.2020

Plot 7-160. Antenna C EIRP Density Plot (100MHz BW 1CC QPSK Low Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 108 of 360

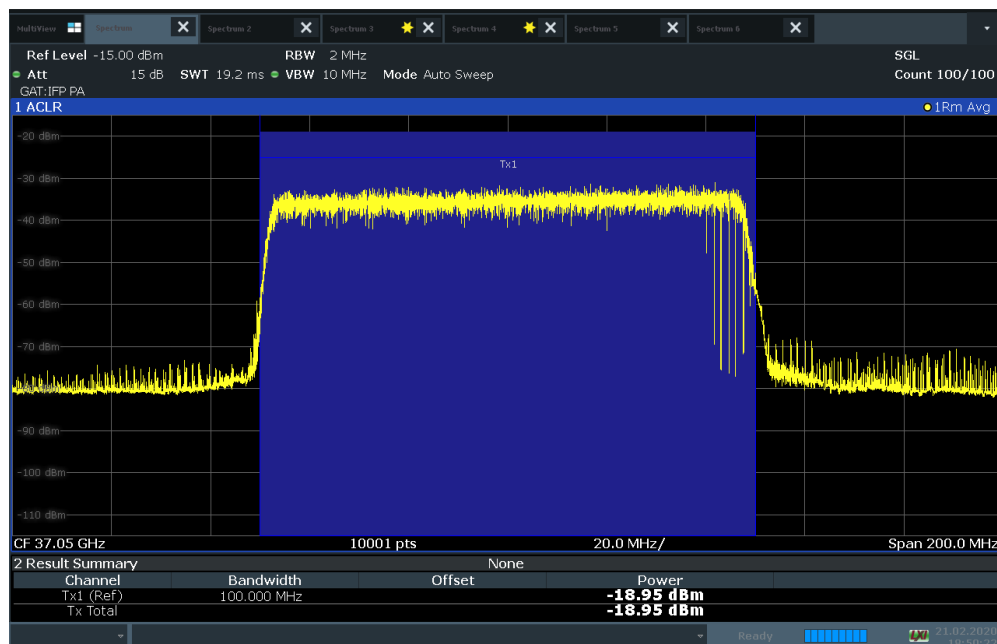
ACLRResults



18:49:45 21.02.2020

Plot 7-161. Antenna C EIRP Density Plot (100MHz BW 1CC 16QAM Low Channel)

ACLRResults

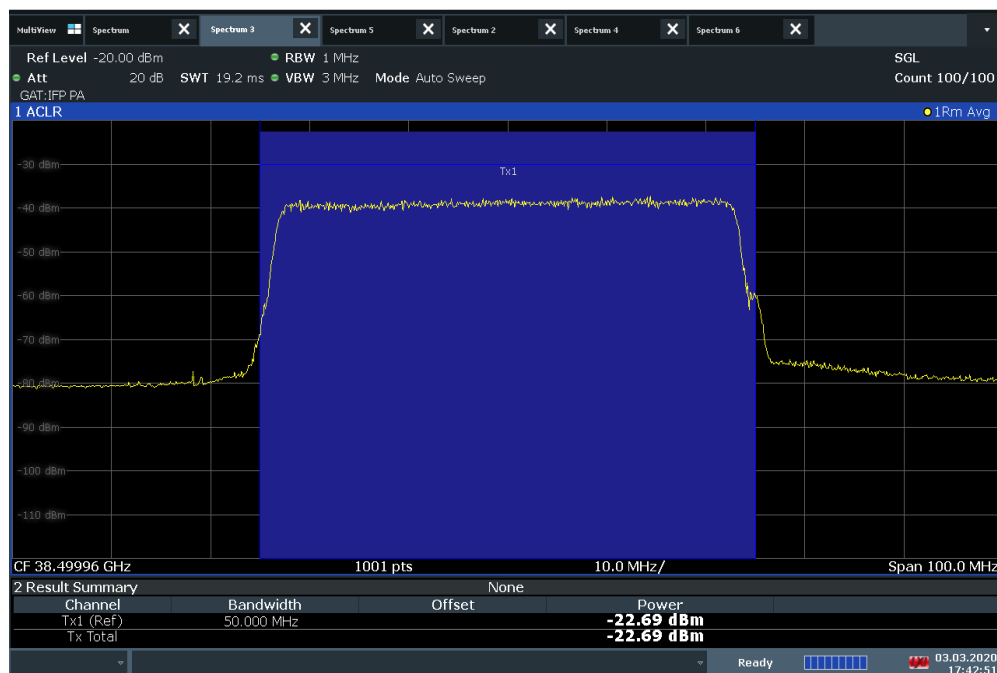


18:50:22 21.02.2020

Plot 7-162. Antenna C EIRP Density Plot (100MHz BW 1CC 64QAM Low Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 109 of 360

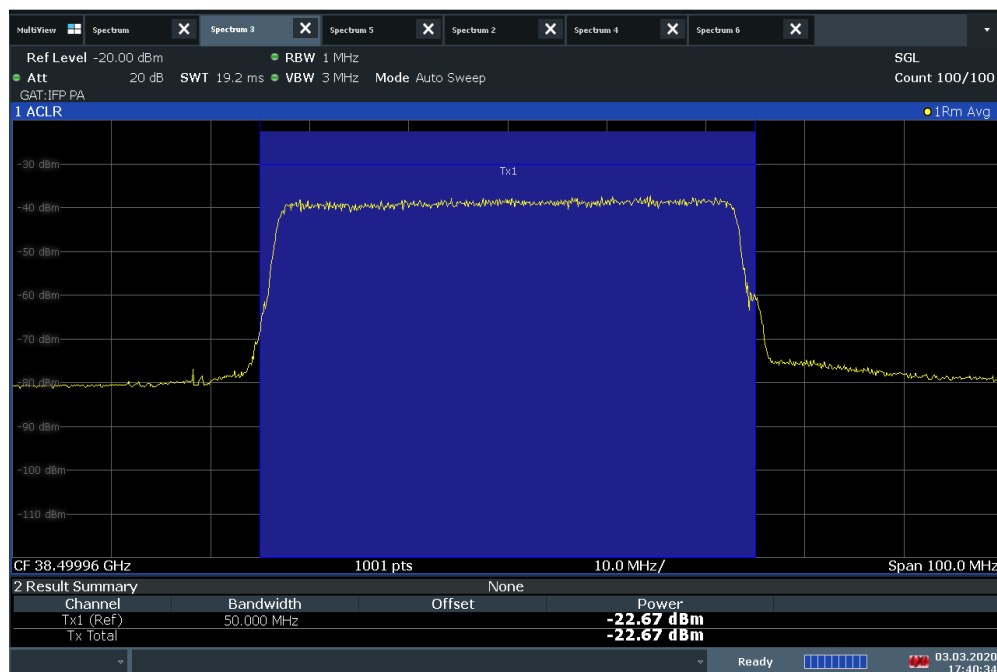
ACLRRResults



17:42:51 03.03.2020

Plot 7-163. Antenna C EIRP Density Plot (50MHz BW 1CC QPSK Mid Channel)

ACLRRResults

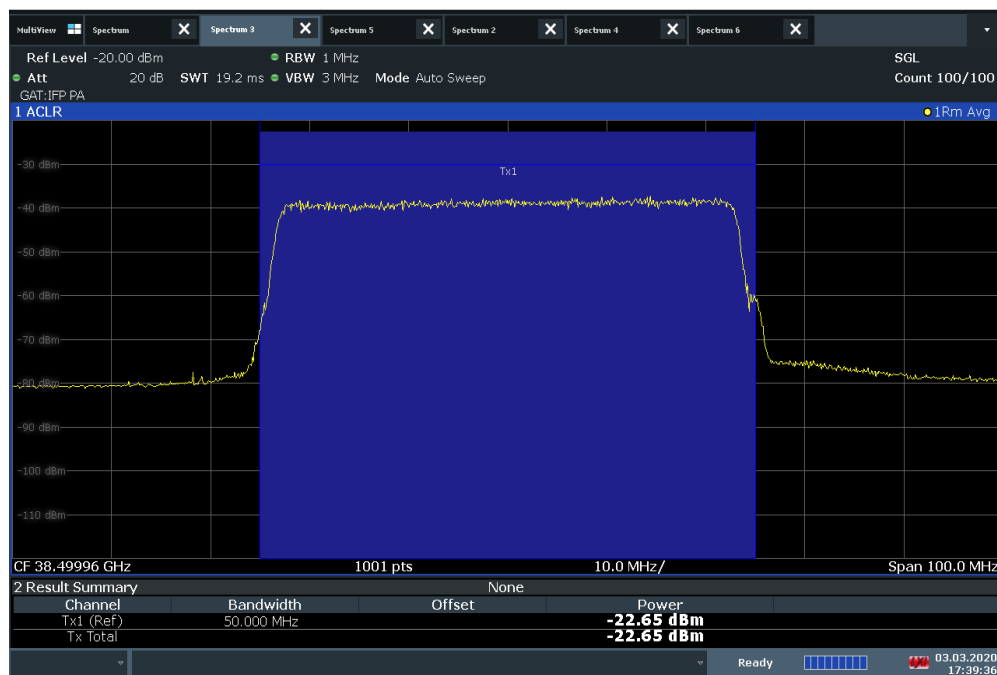


17:40:34 03.03.2020

Plot 7-164. Antenna C EIRP Density Plot (50MHz BW 1CC 16QAM Mid Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 110 of 360

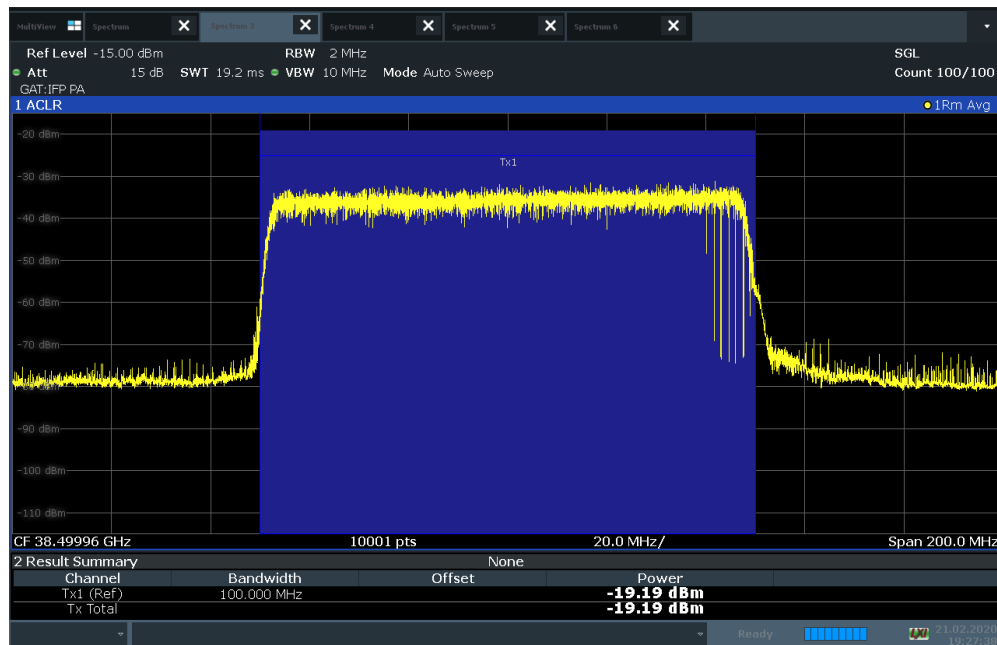
ACLRResults



17:39:37 03.03.2020

Plot 7-165. Antenna C EIRP Density Plot (50MHz BW 1CC 64QAM Mid Channel)

ACLRResults

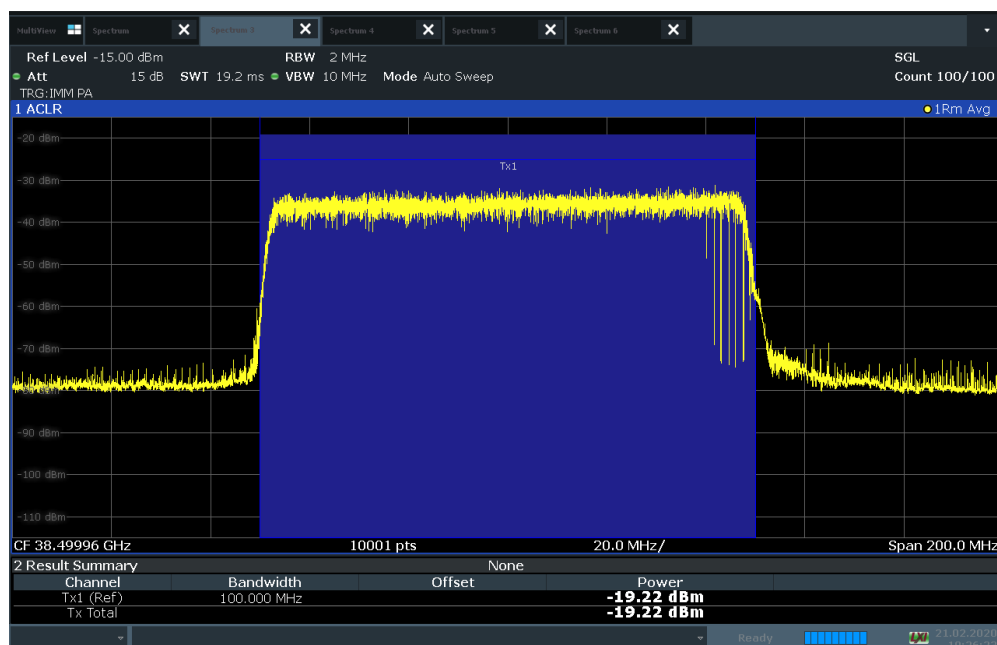


19:27:39 21.02.2020

Plot 7-166. Antenna C EIRP Density Plot (100MHz BW 1CC QPSK Mid Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 111 of 360

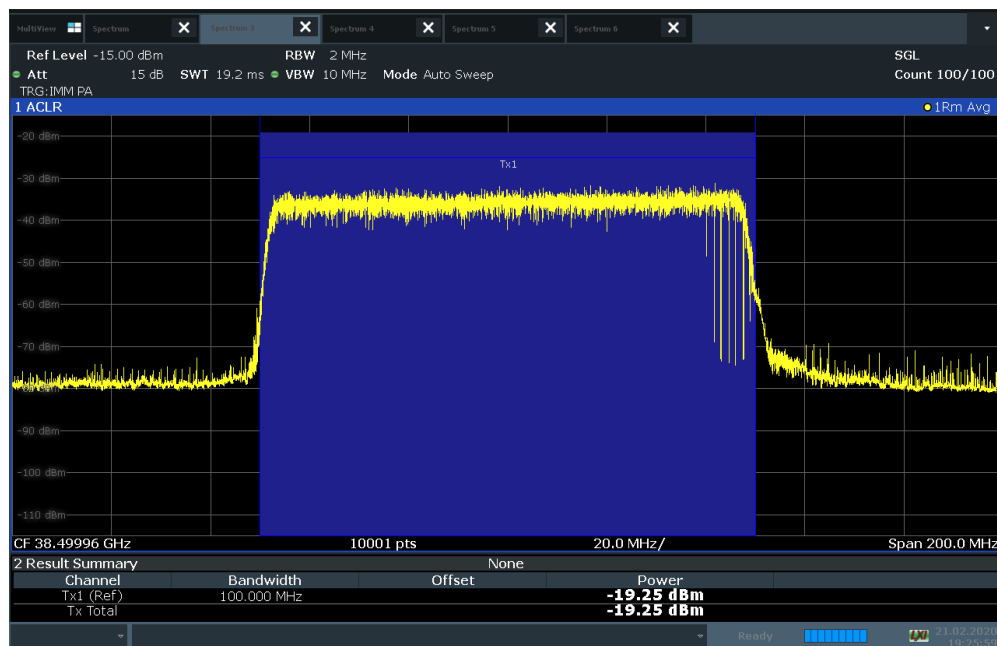
ACLRResults



19:26:24 21.02.2020

Plot 7-167. Antenna C EIRP Density Plot (100MHz BW 1CC 16QAM Mid Channel)

ACLRResults

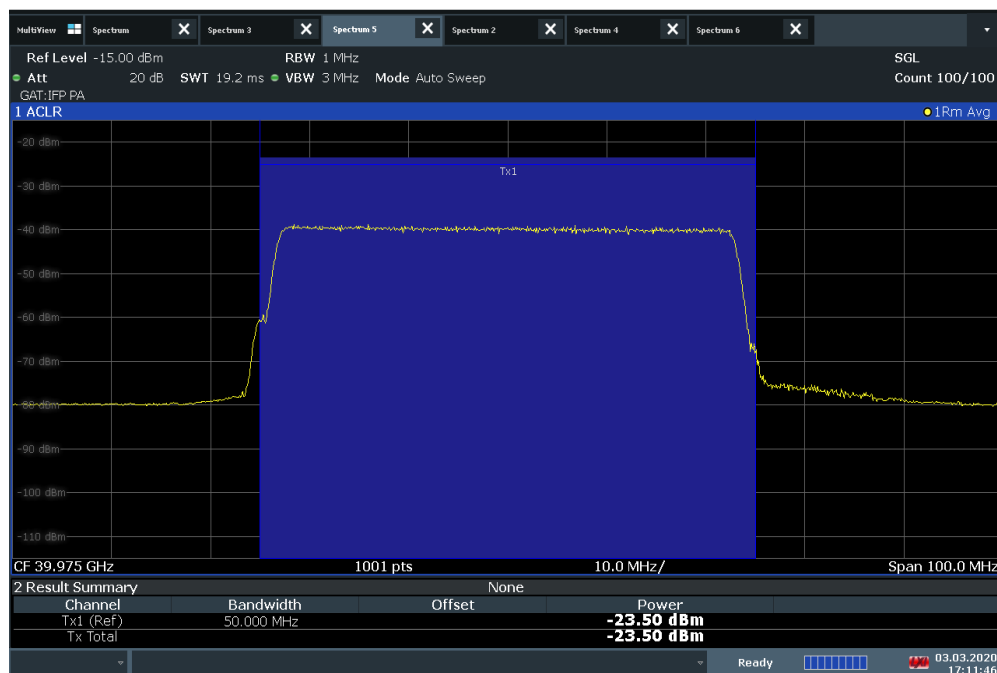


19:25:59 21.02.2020

Plot 7-168. Antenna C EIRP Density Plot (100MHz BW 1CC 64QAM Mid Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 112 of 360

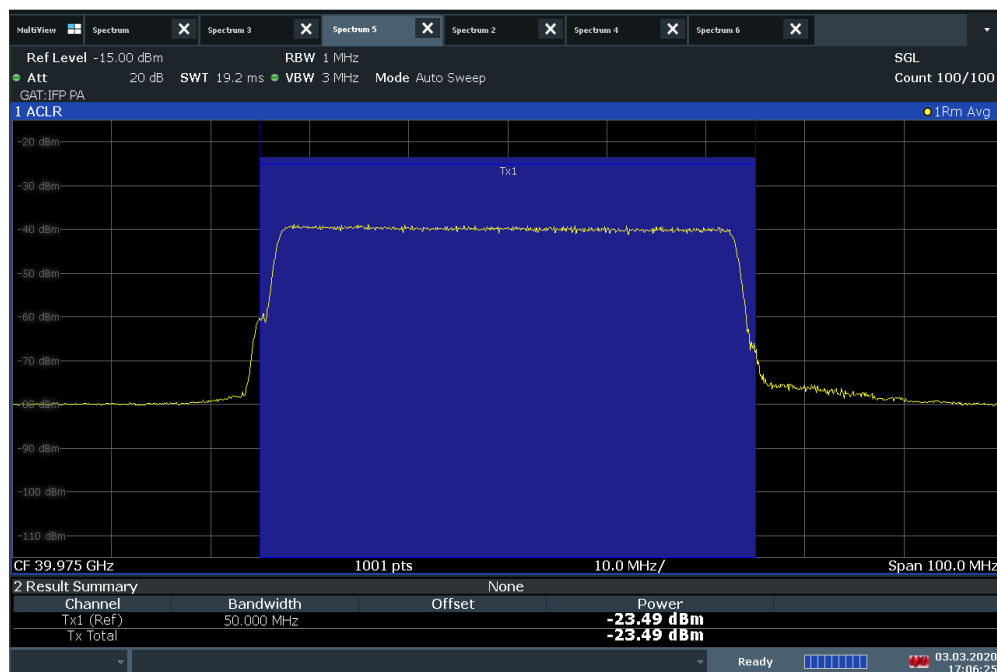
ACLRResults



17:11:47 03.03.2020

Plot 7-169. Antenna C EIRP Density Plot (50MHz BW 1CC QPSK High Channel)

ACLRResults

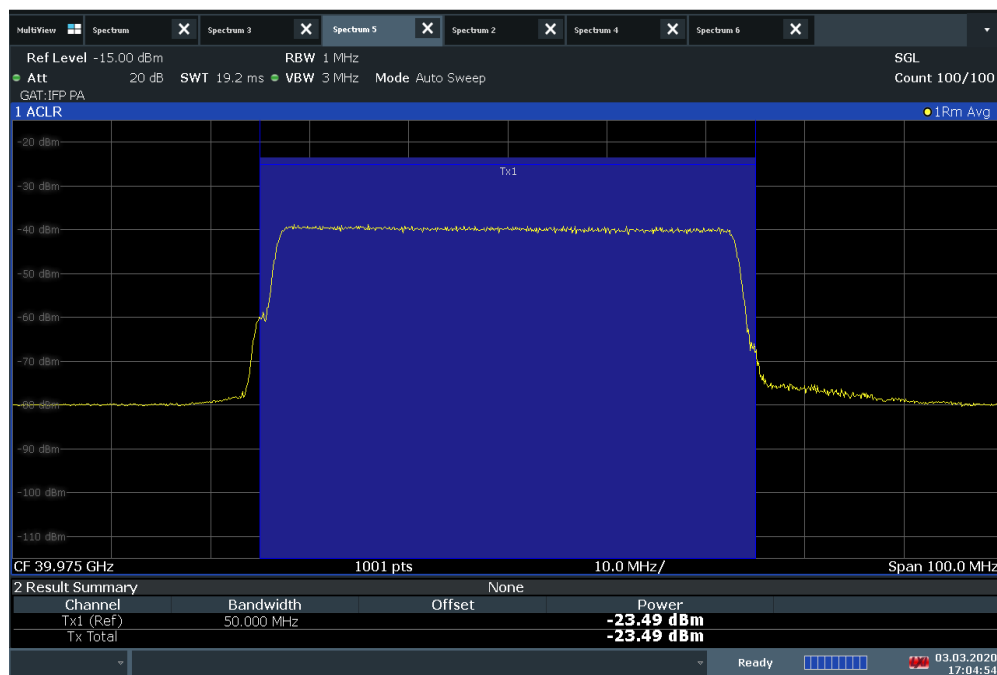


17:06:25 03.03.2020

Plot 7-170. Antenna C EIRP Density Plot (50MHz BW 1CC 16QAM High Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 113 of 360

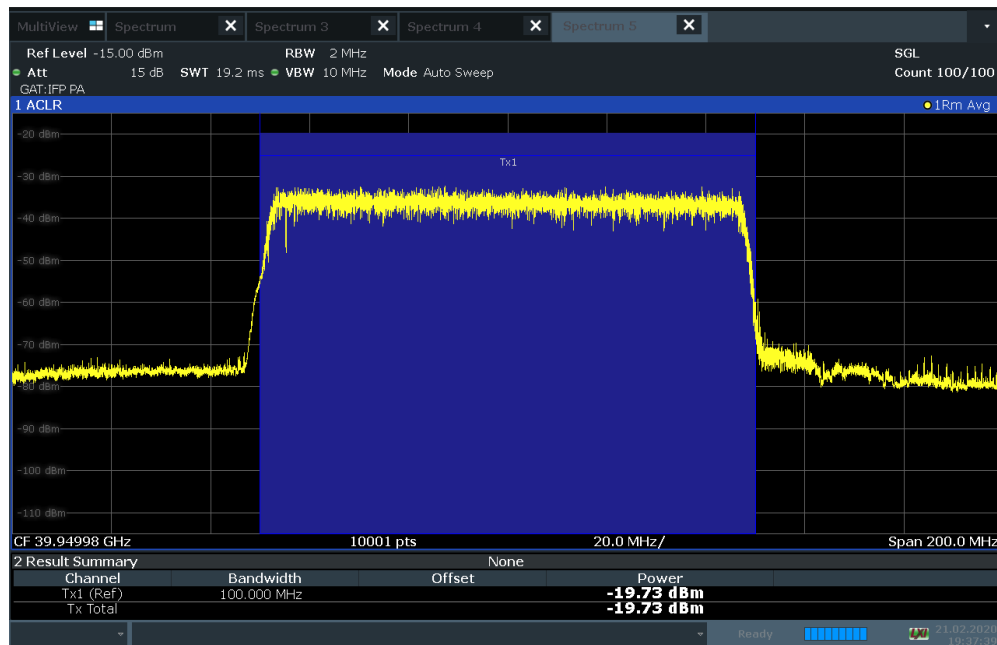
ACLRResults



17:04:55 03.03.2020

Plot 7-171. Antenna C EIRP Density Plot (50MHz BW 1CC 64QAM High Channel)

ACLRResults

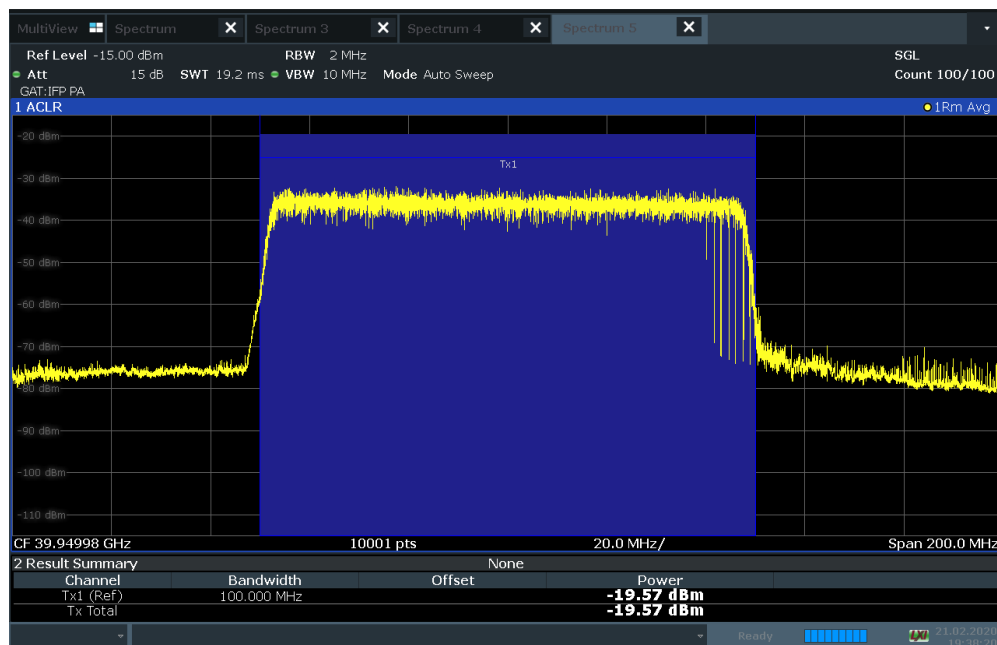


19:37:40 21.02.2020

Plot 7-172. Antenna C EIRP Density Plot (100MHz BW 1CC QPSK High Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 114 of 360

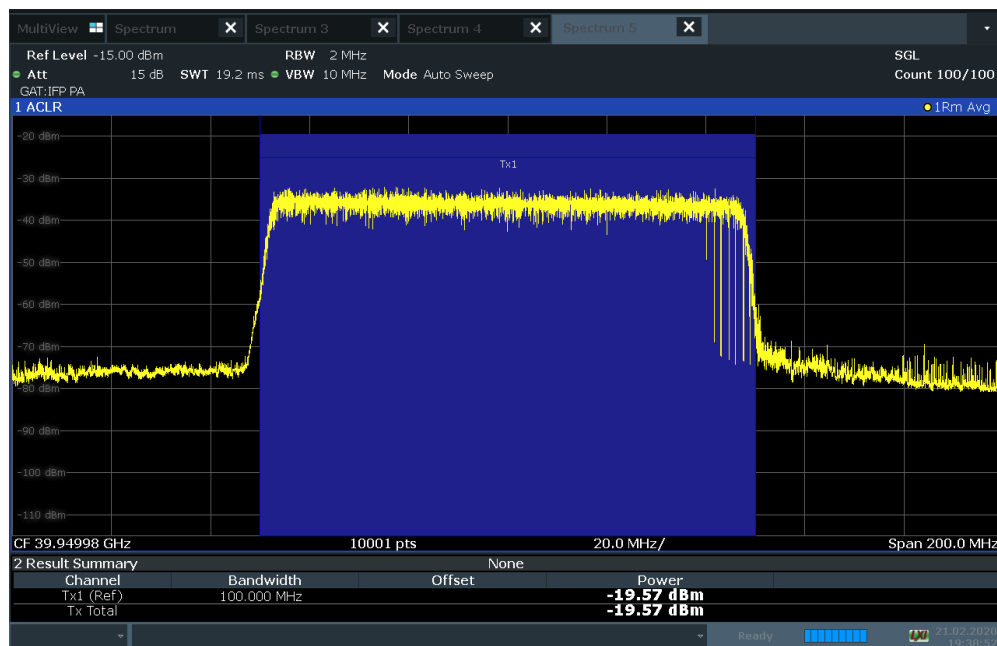
ACLRRResults



19:38:21 21.02.2020

Plot 7-173. Antenna C EIRP Density Plot (100MHz BW 1CC 16QAM High Channel)

ACLRRResults



19:38:52 21.02.2020

Plot 7-174. Antenna C EIRP Density Plot (100MHz BW 1CC 64QAM High Channel)

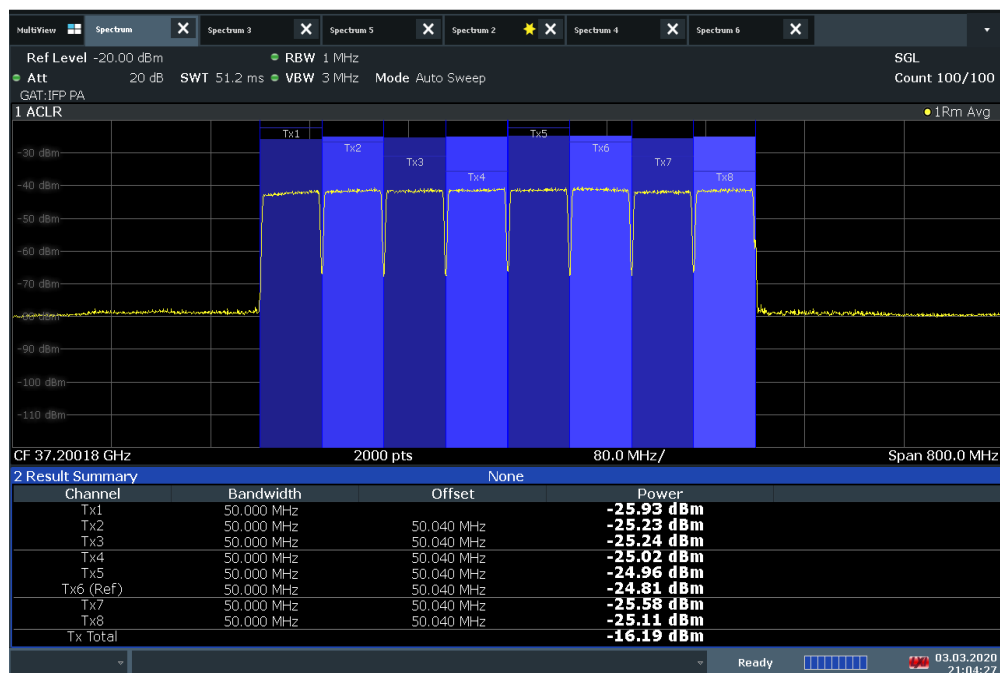
FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 115 of 360

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V9.0 02/01/2019

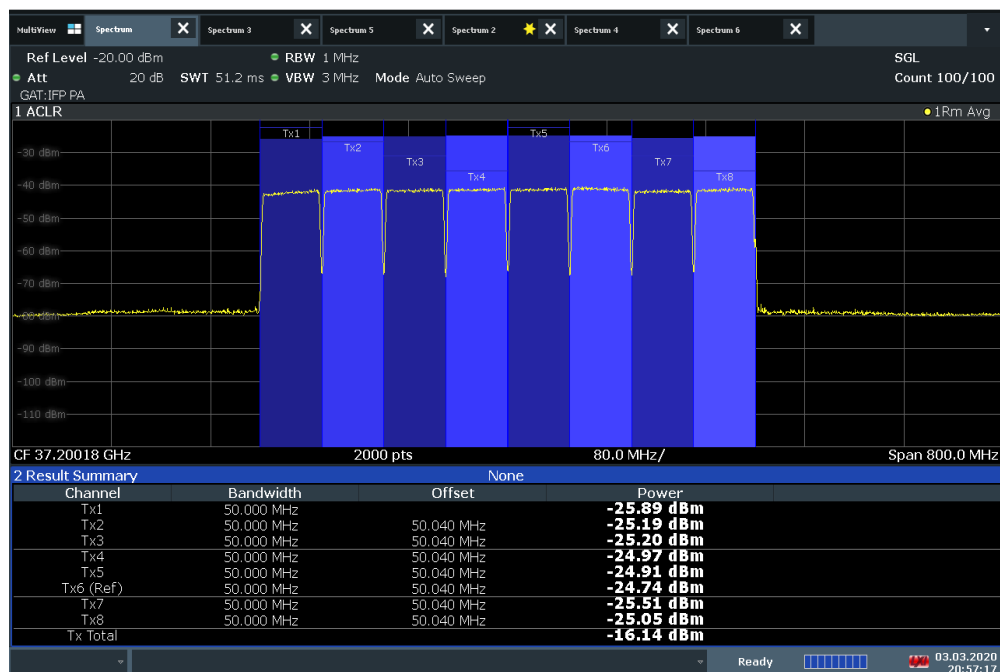
ACLRRResults



21:04:27 03.03.2020

Plot 7-175. Antenna C EIRP Density Plot (50MHz BW 8CC QPSK Low Channel)

ACLRRResults

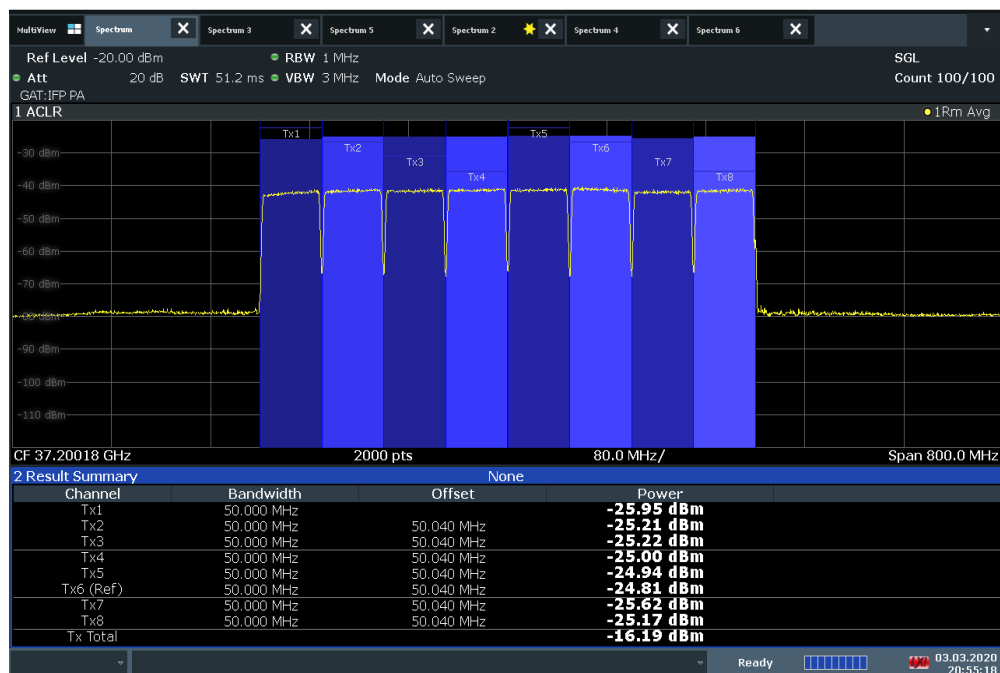


20:57:18 03.03.2020

Plot 7-176. Antenna C EIRP Density Plot (50MHz BW 8CC 16QAM Low Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 116 of 360

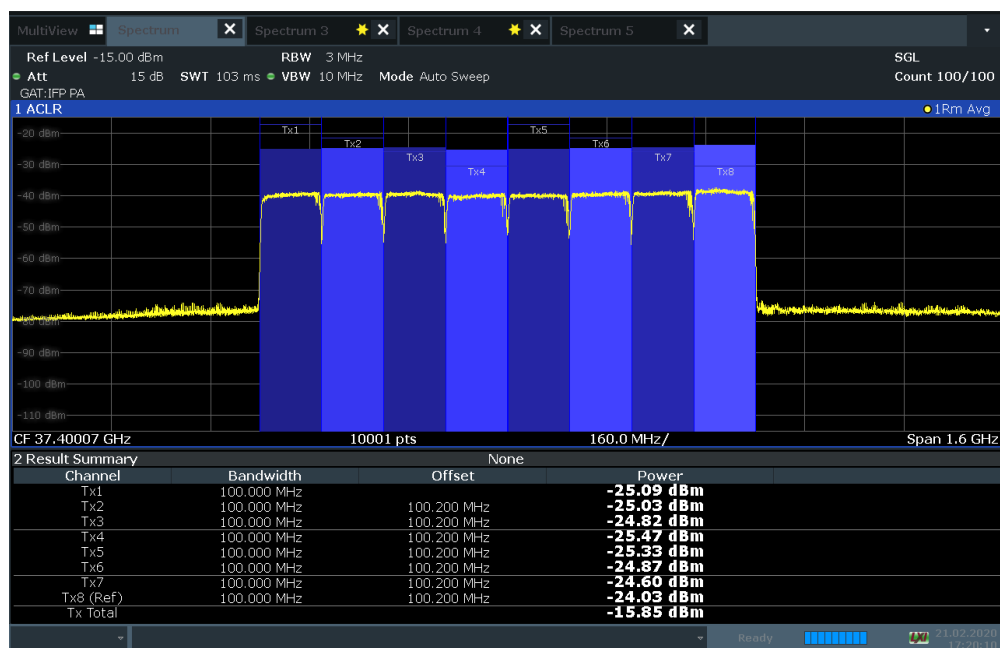
ACLRResults



20:55:19 03.03.2020

Plot 7-177. Antenna C EIRP Density Plot (50MHz BW 8CC 64QAM Low Channel)

ACLRResults

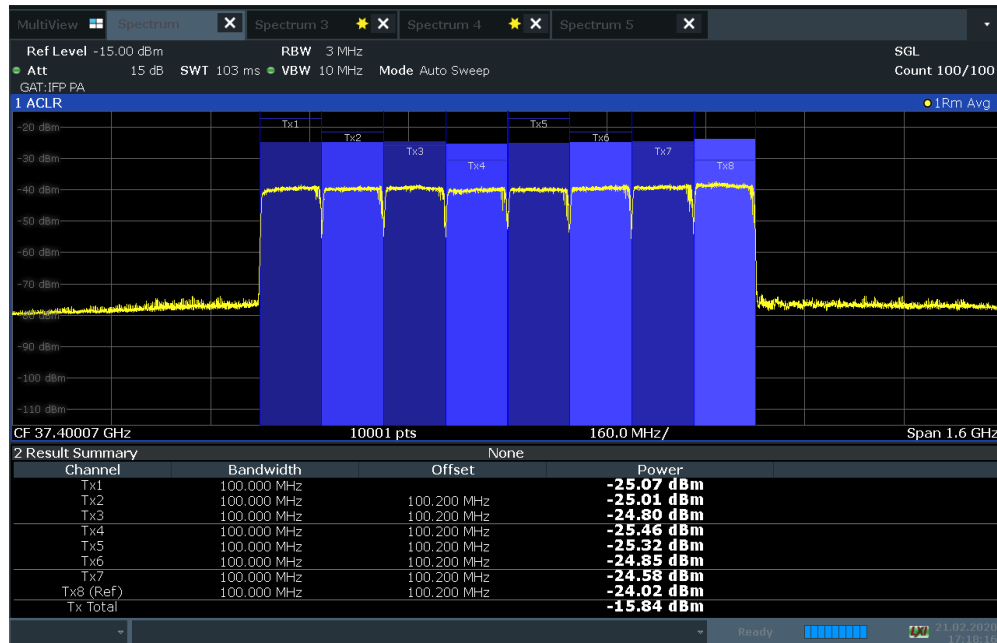


17:20:11 21.02.2020

Plot 7-178. Antenna C EIRP Density Plot (100MHz BW 8CC QPSK Low Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 117 of 360

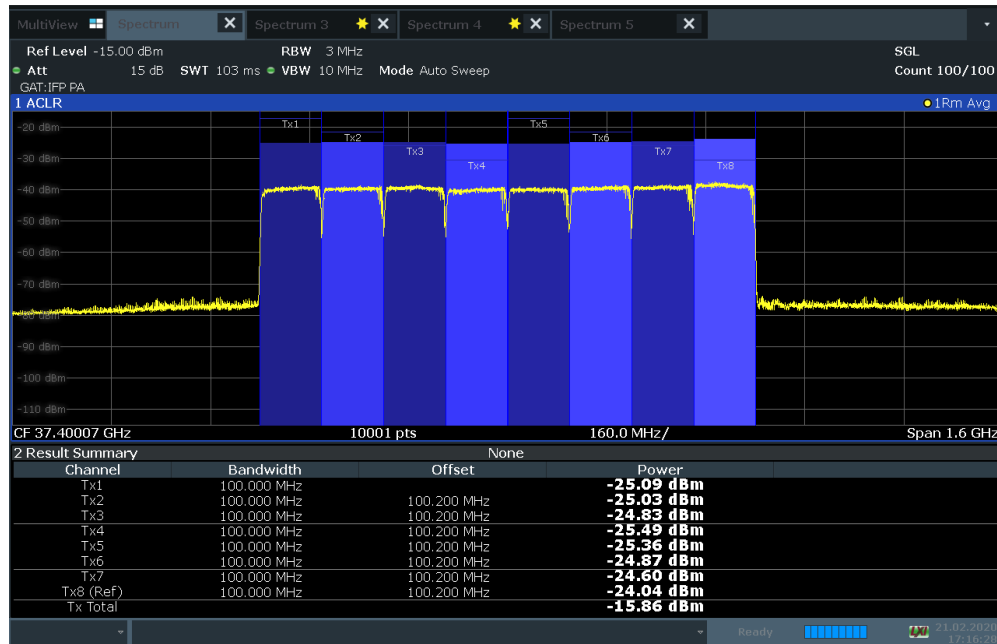
ACLRRResults



17:18:16 21.02.2020

Plot 7-179. Antenna C EIRP Density Plot (100MHz BW 8CC 16QAM Low Channel)

ACLRRResults

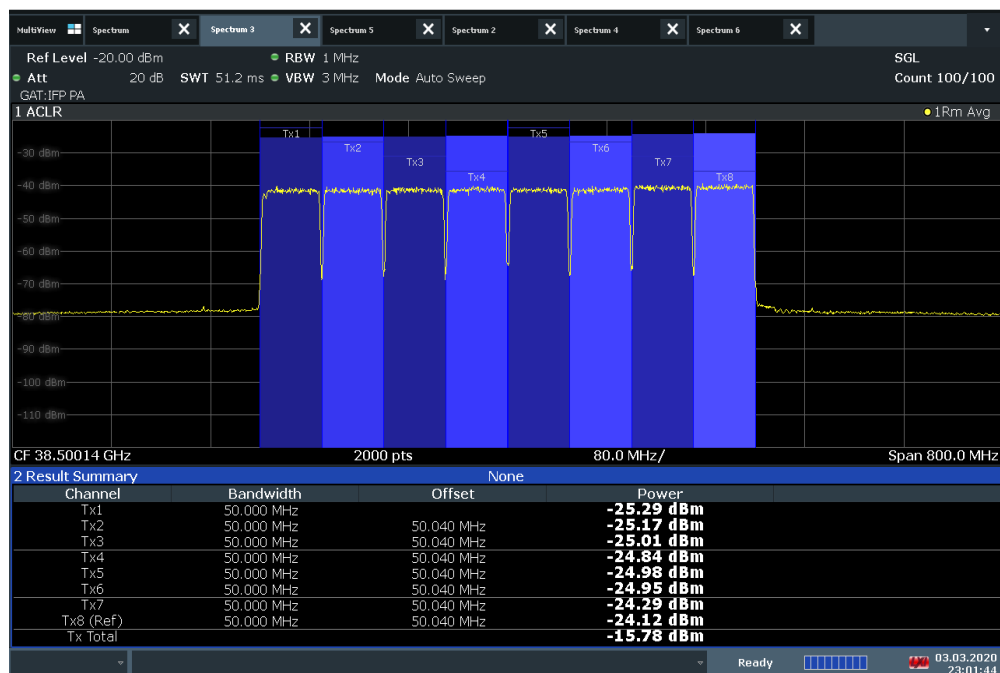


17:16:28 21.02.2020

Plot 7-180. Antenna C EIRP Density Plot (100MHz BW 8CC 64QAM Low Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 118 of 360

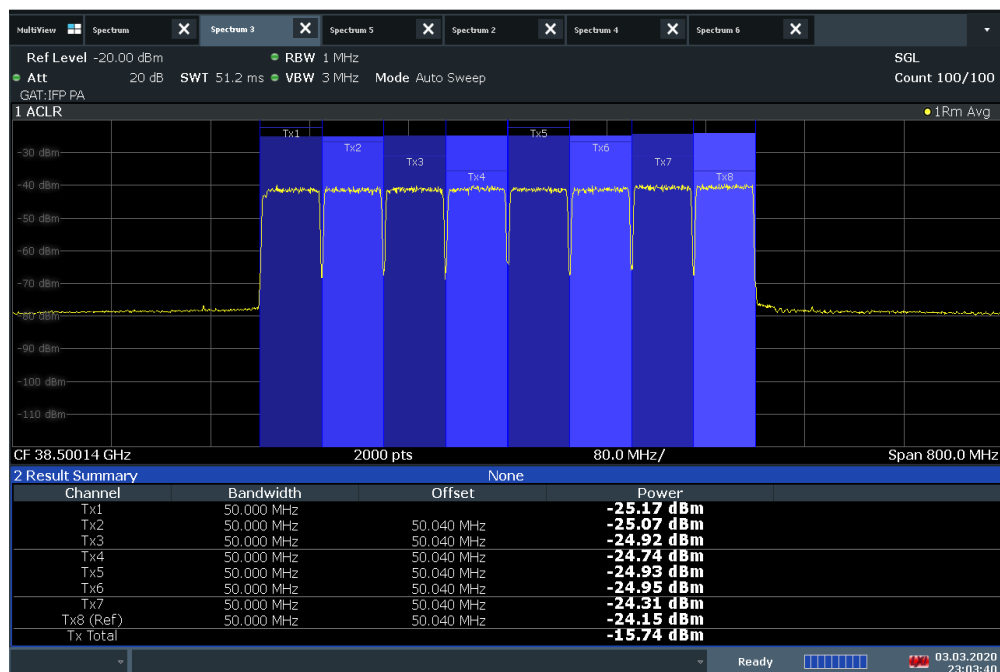
ACLRRResults



23:01:45 03.03.2020

Plot 7-181. Antenna C EIRP Density Plot (50MHz BW 8CC QPSK Mid Channel)

ACLRRResults

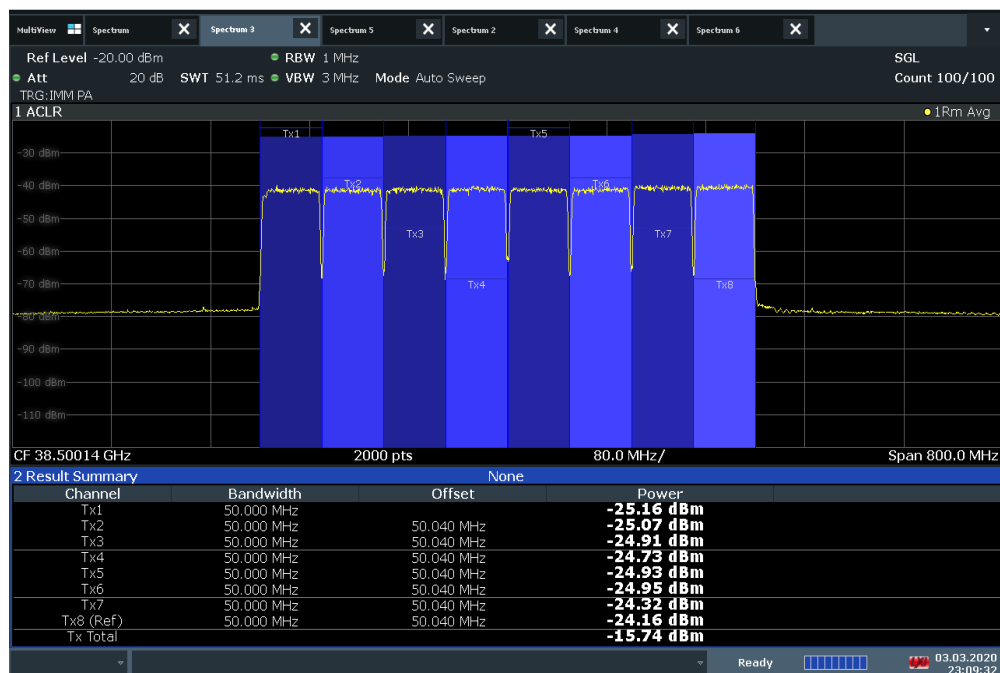


23:03:40 03.03.2020

Plot 7-182. Antenna C EIRP Density Plot (50MHz BW 8CC 16QAM Mid Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 119 of 360

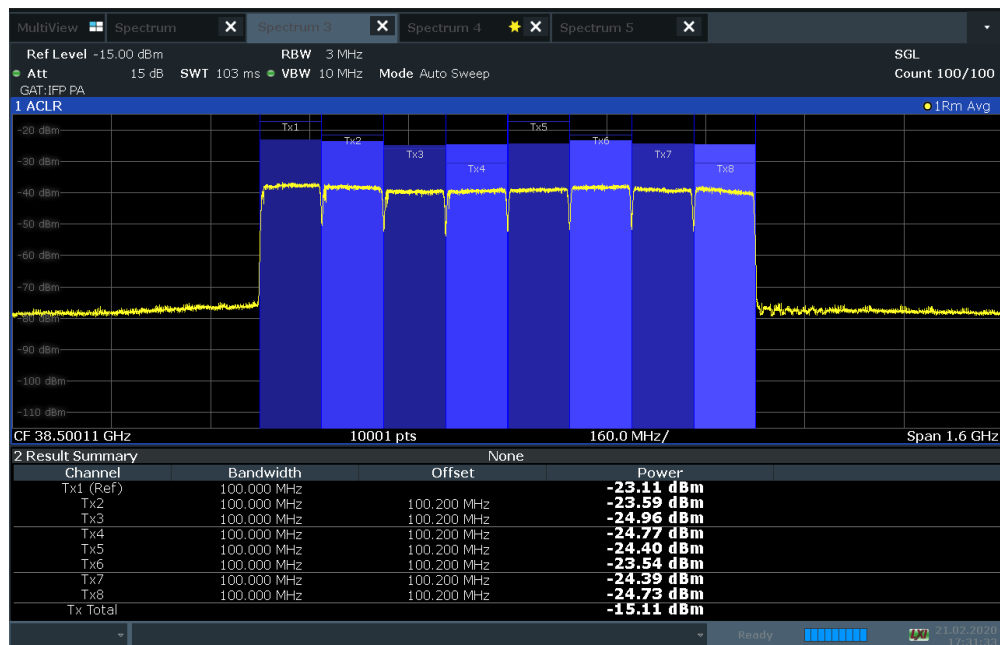
ACLRResults



23:09:33 03.03.2020

Plot 7-183. Antenna C EIRP Density Plot (50MHz BW 8CC 64QAM Mid Channel)

ACLRResults

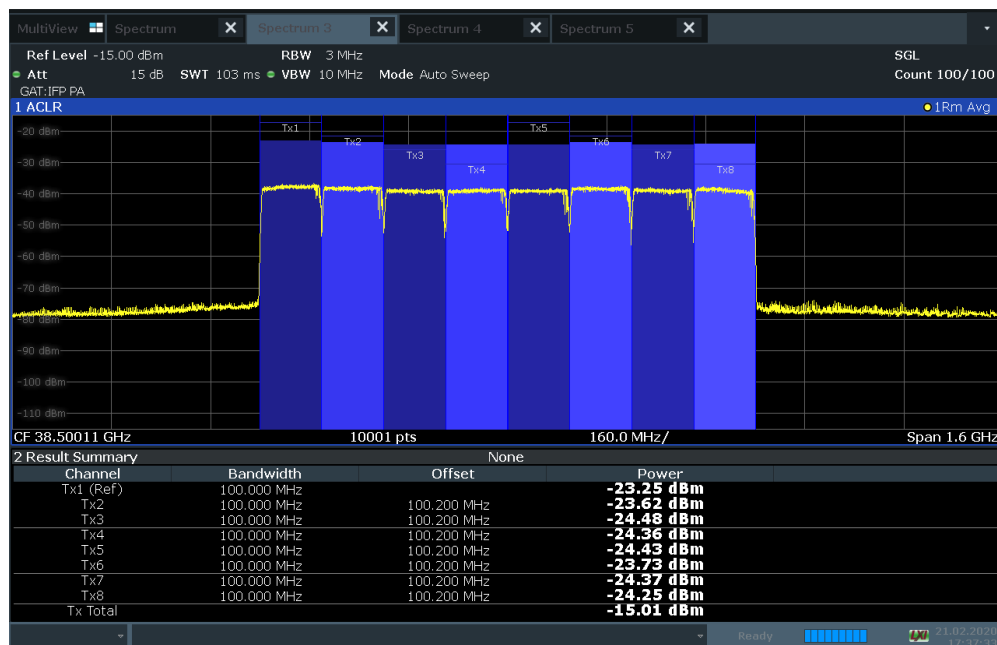


17:31:34 21.02.2020

Plot 7-184. Antenna C EIRP Density Plot (100MHz BW 8CC QPSK Mid Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 120 of 360

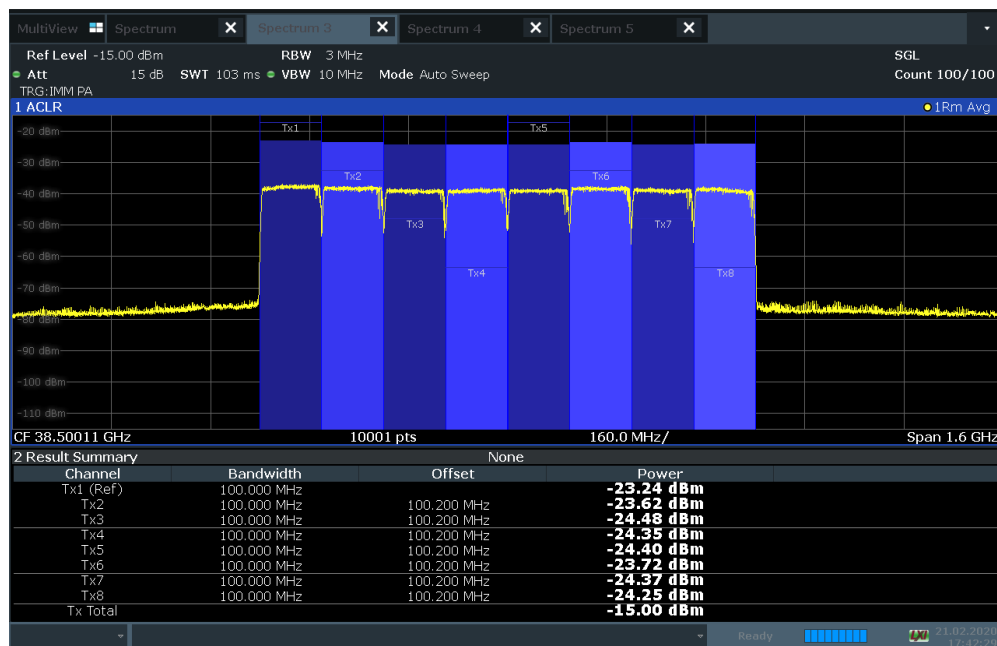
ACLRRResults



17:37:34 21.02.2020

Plot 7-185. Antenna C EIRP Density Plot (100MHz BW 8CC 16QAM Mid Channel)

ACLRRResults

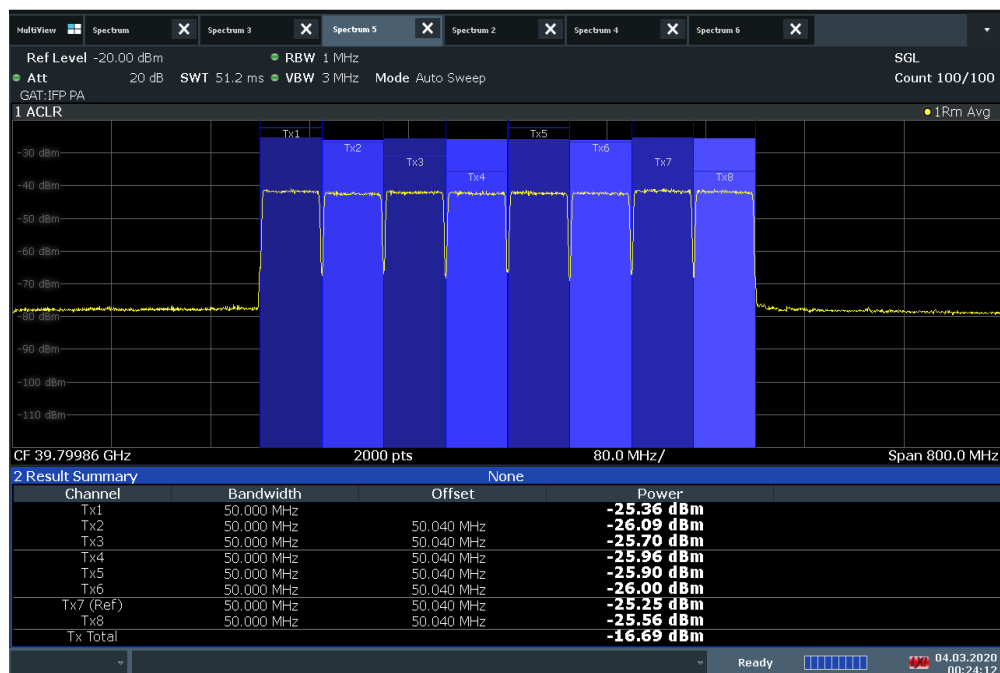


17:42:30 21.02.2020

Plot 7-186. Antenna C EIRP Density Plot (100MHz BW 8CC 64QAM Mid Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 121 of 360

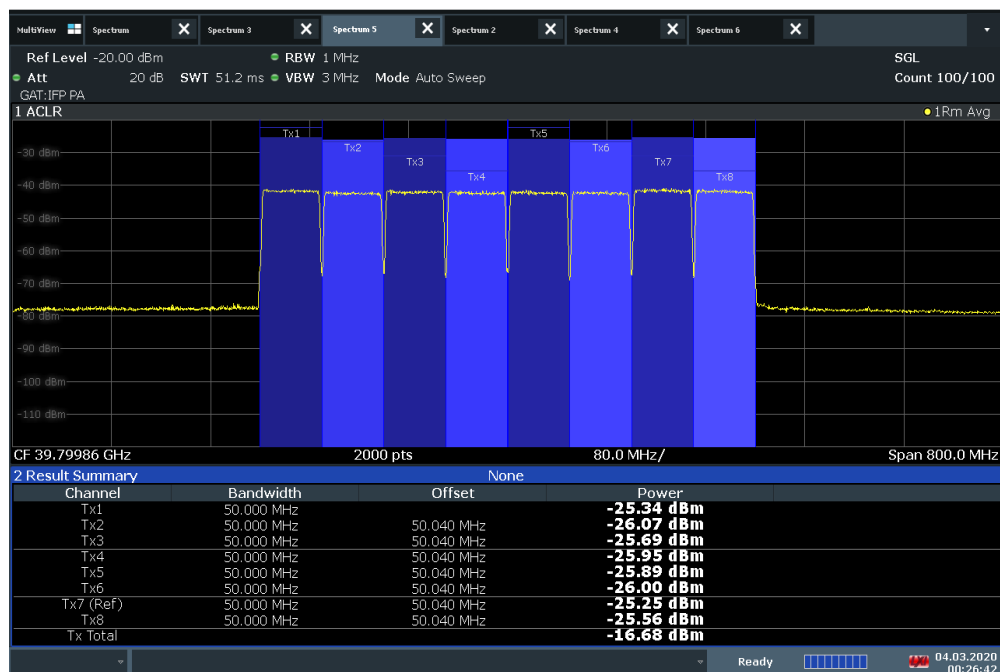
ACLRRResults



00:24:13 04.03.2020

Plot 7-187. Antenna C EIRP Density Plot (50MHz BW 8CC QPSK High Channel)

ACLRRResults

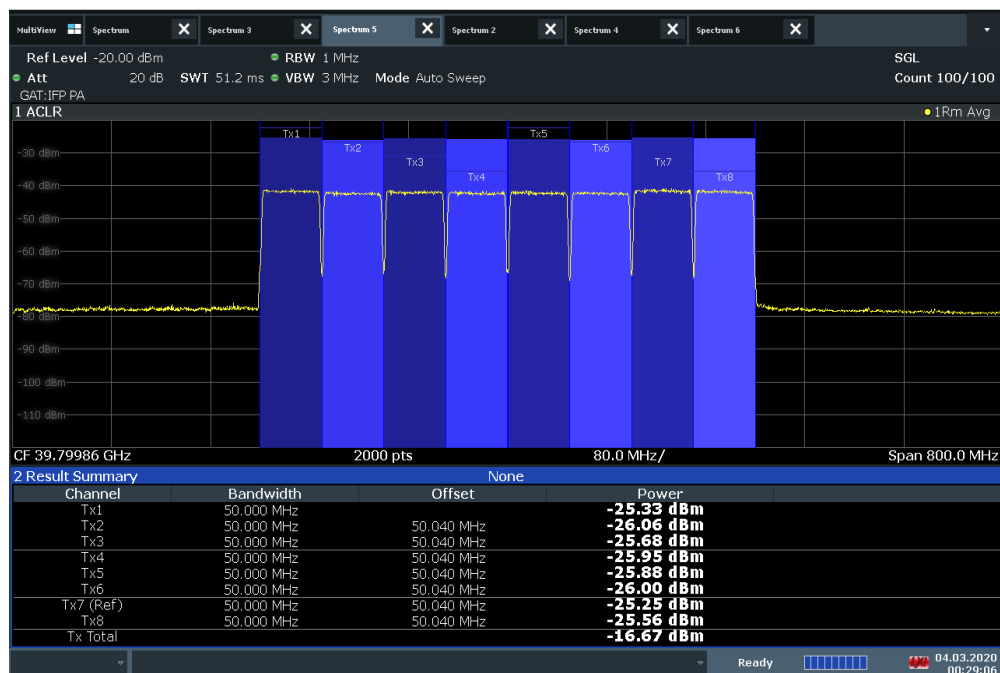


00:26:43 04.03.2020

Plot 7-188. Antenna C EIRP Density Plot (50MHz BW 8CC 16QAM High Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 122 of 360

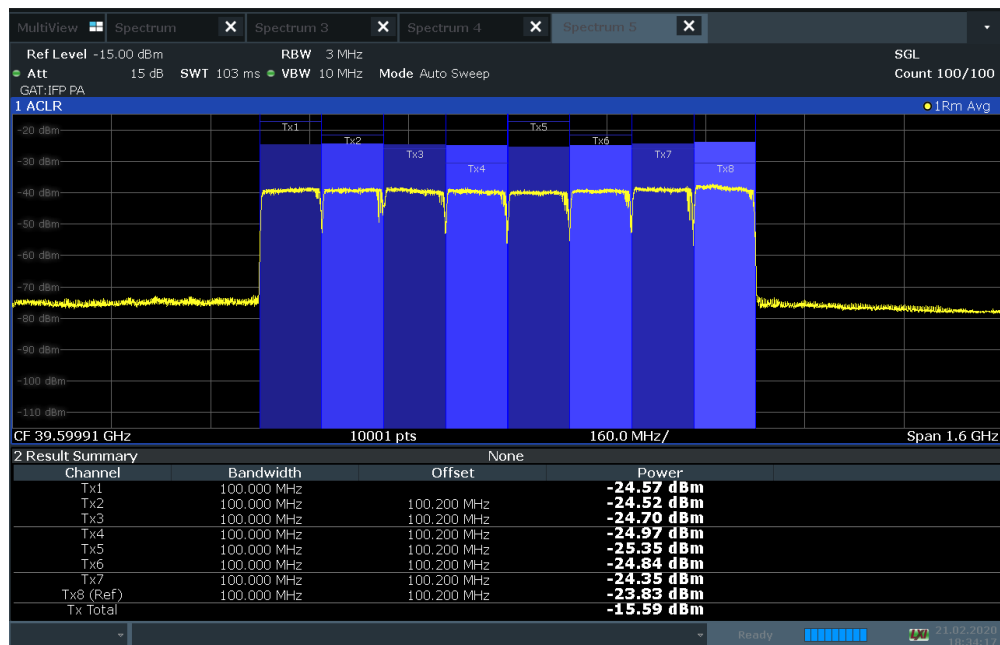
ACLRResults



00:29:07 04.03.2020

Plot 7-189. Antenna C EIRP Density Plot (50MHz BW 8CC 64QAM High Channel)

ACLRResults

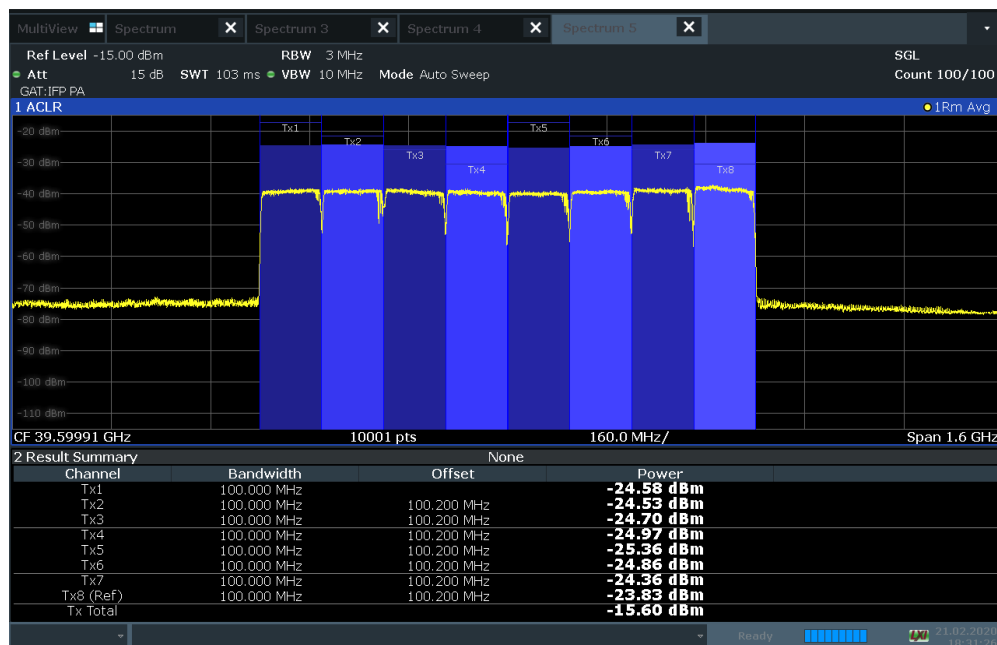


18:34:18 21.02.2020

Plot 7-190. Antenna C EIRP Density Plot (100MHz BW 8CC QPSK High Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 123 of 360

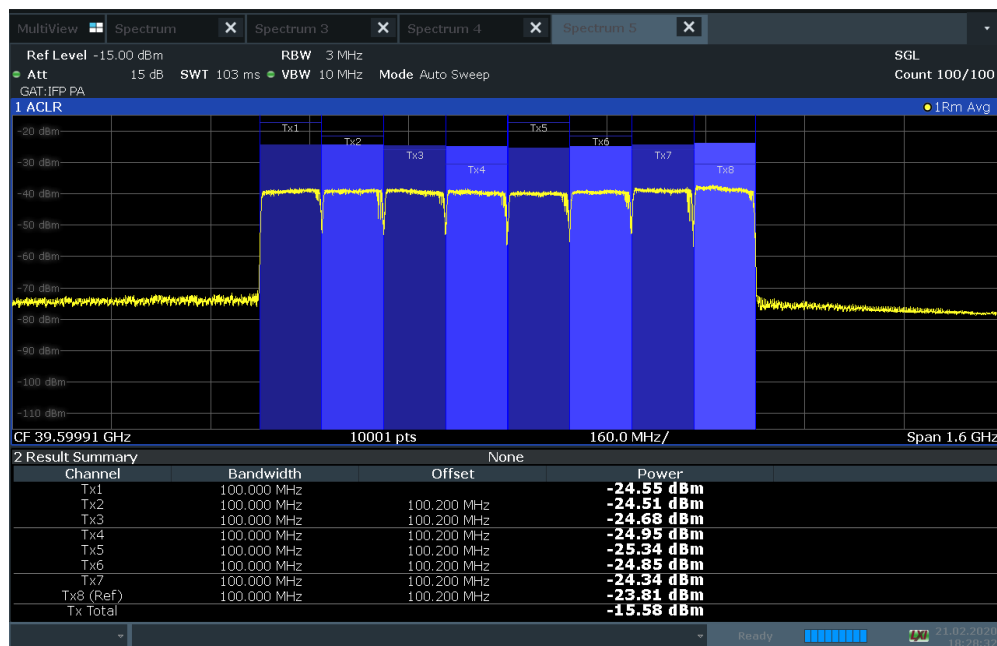
ACLRRResults



18:31:27 21.02.2020

Plot 7-191. Antenna C EIRP Density Plot (100MHz BW 8CC 16QAM High Channel)

ACLRRResults

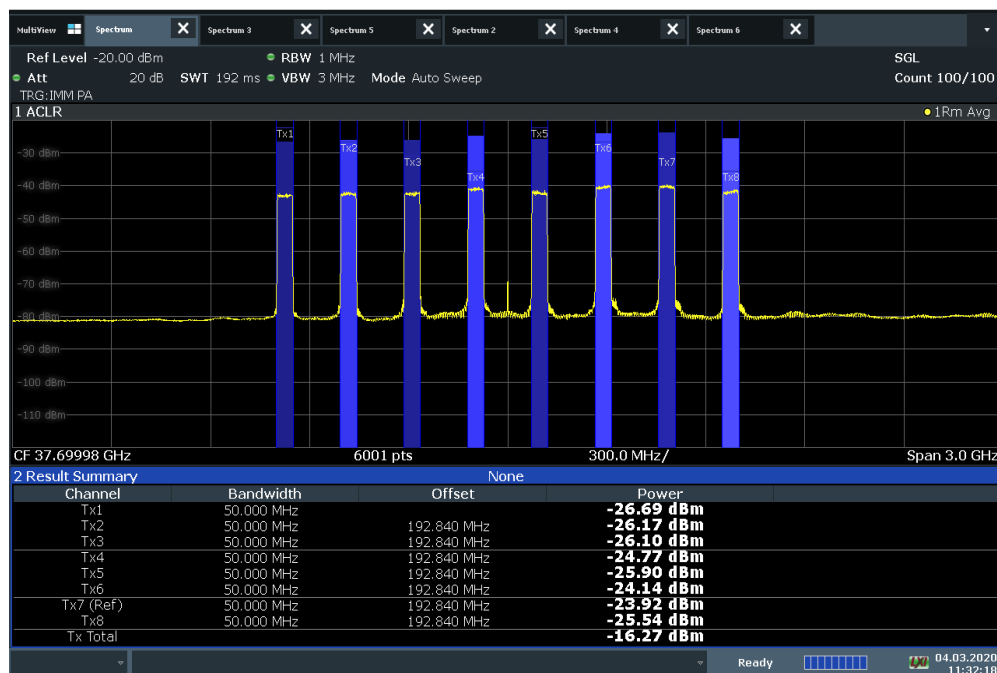


18:28:33 21.02.2020

Plot 7-192. Antenna C EIRP Density Plot (100MHz BW 8CC 64QAM High Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 124 of 360

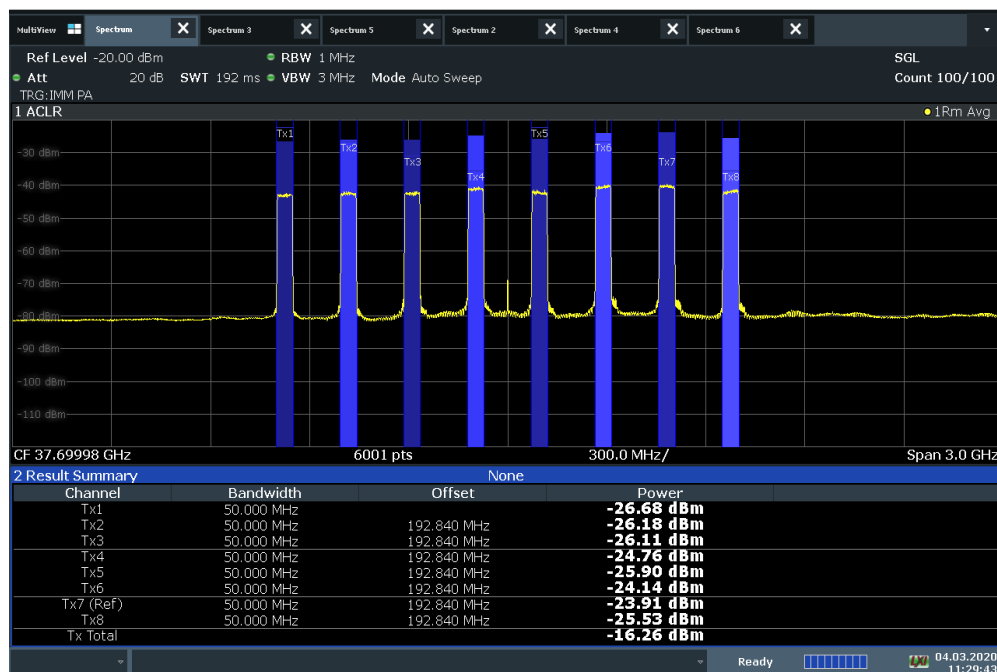
ACLRRResults



11:32:18 04.03.2020

Plot 7-193. Antenna C EIRP Density Plot (50MHz BW 8CC NC QPSK Low Channel)

ACLRRResults

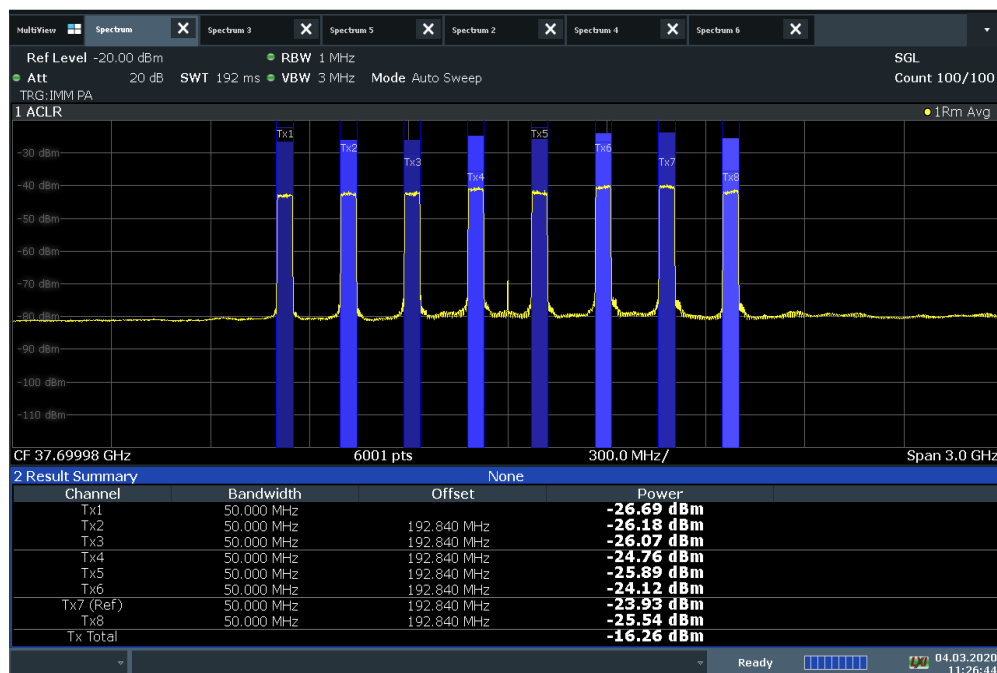


11:29:43 04.03.2020

Plot 7-194. Antenna C EIRP Density Plot (50MHz BW 8CC NC 16QAM Low Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 125 of 360

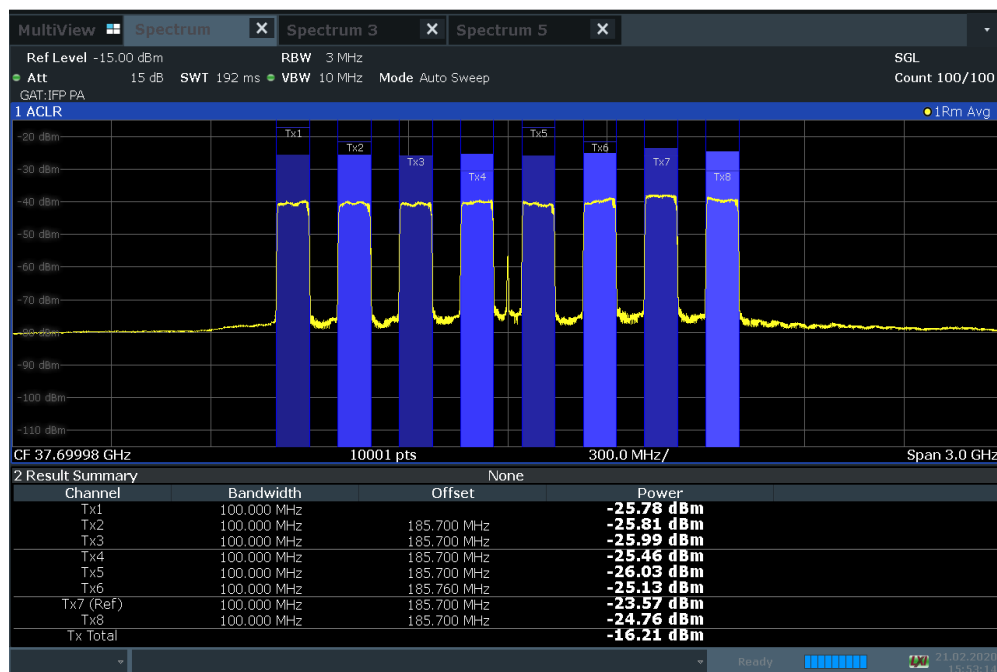
ACLRRResults



11:26:45 04.03.2020

Plot 7-195. Antenna C EIRP Density Plot (50MHz BW 8CC NC 64QAM Low Channel)

ACLRRResults

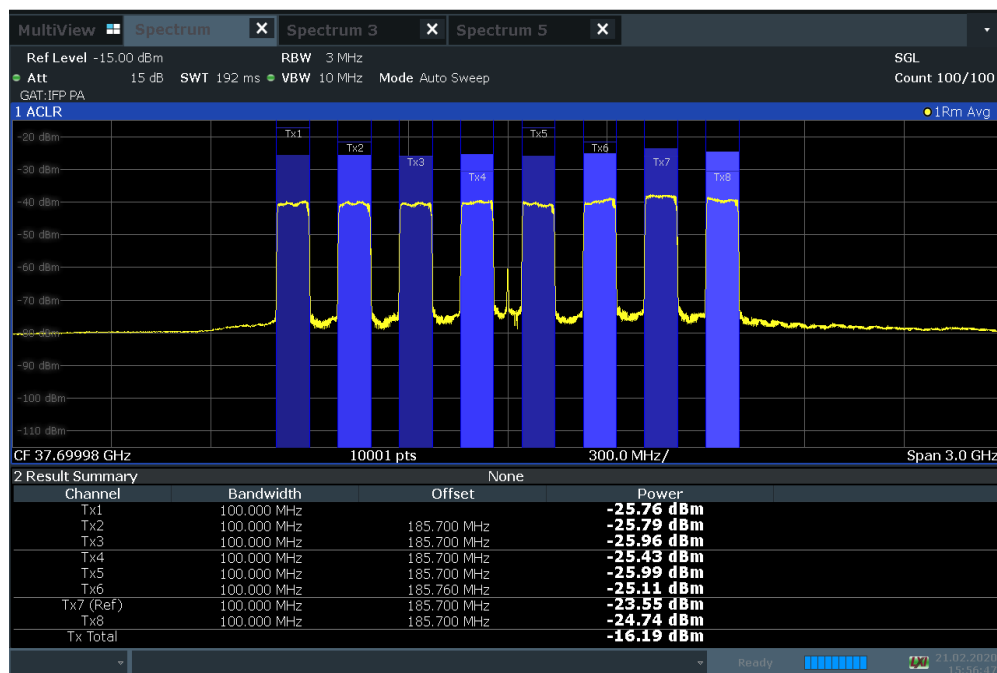


15:53:14 21.02.2020

Plot 7-196. Antenna C EIRP Density Plot (100MHz BW 8CC NC QPSK Low Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 126 of 360

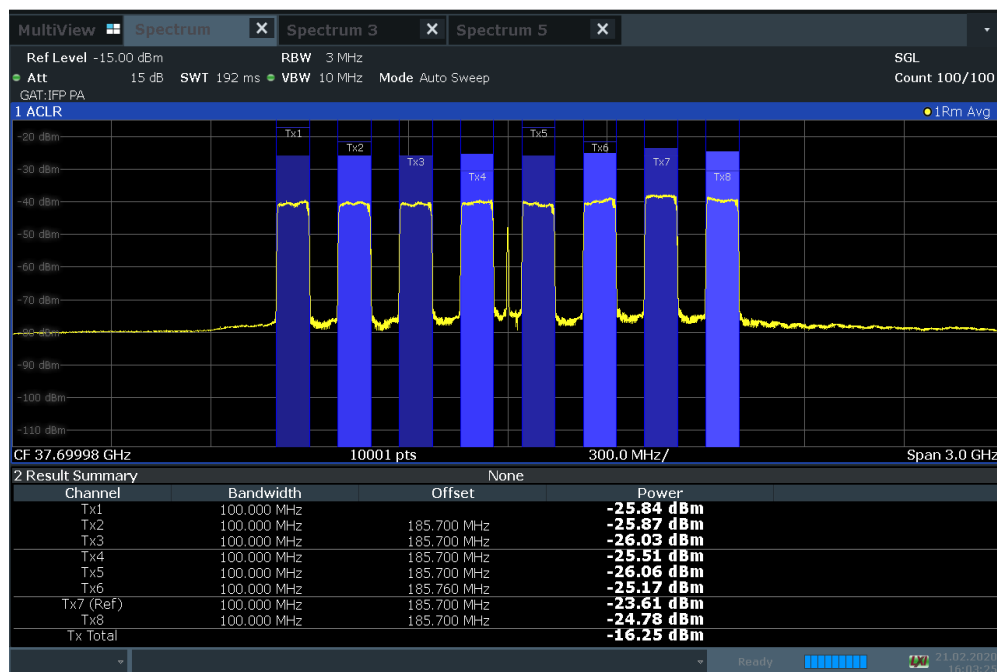
ACLRRResults



15:56:47 21.02.2020

Plot 7-197. Antenna C EIRP Density Plot (100MHz BW 8CC NC 16QAM Low Channel)

ACLRRResults

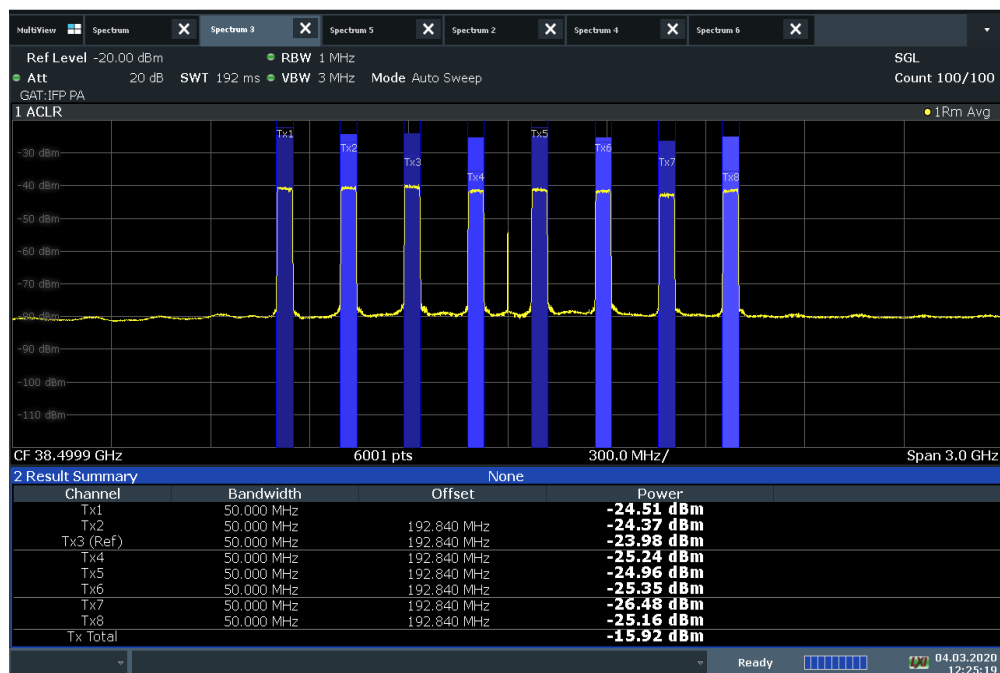


16:03:26 21.02.2020

Plot 7-198. Antenna C EIRP Density Plot (100MHz BW 8CC NC 64QAM Low Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 127 of 360

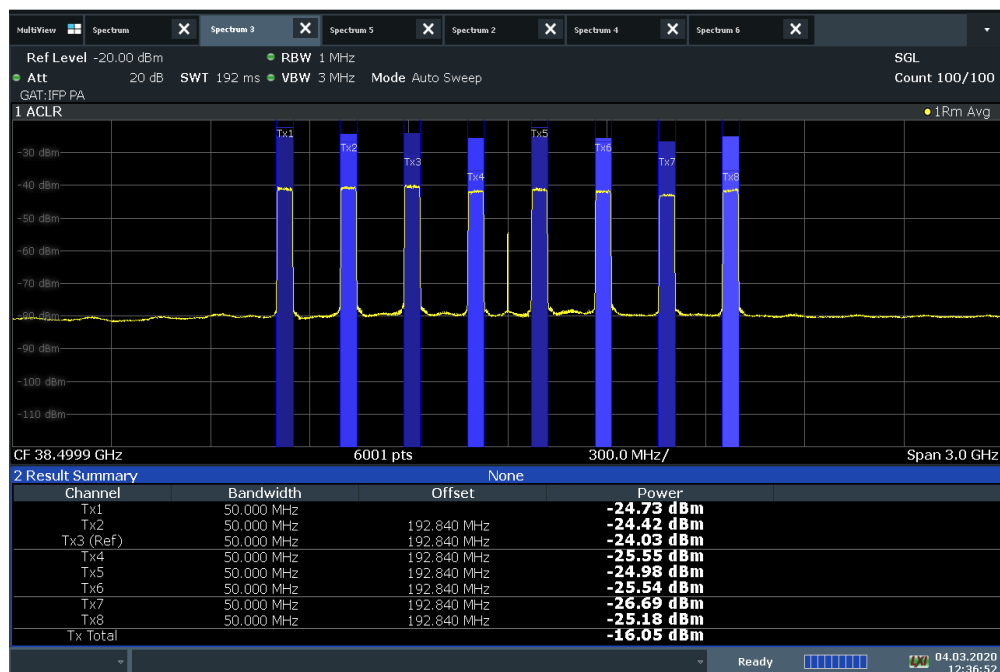
ACLRRResults



12:25:19 04.03.2020

Plot 7-199. Antenna C EIRP Density Plot (50MHz BW 8CC NC QPSK Mid Channel)

ACLRRResults

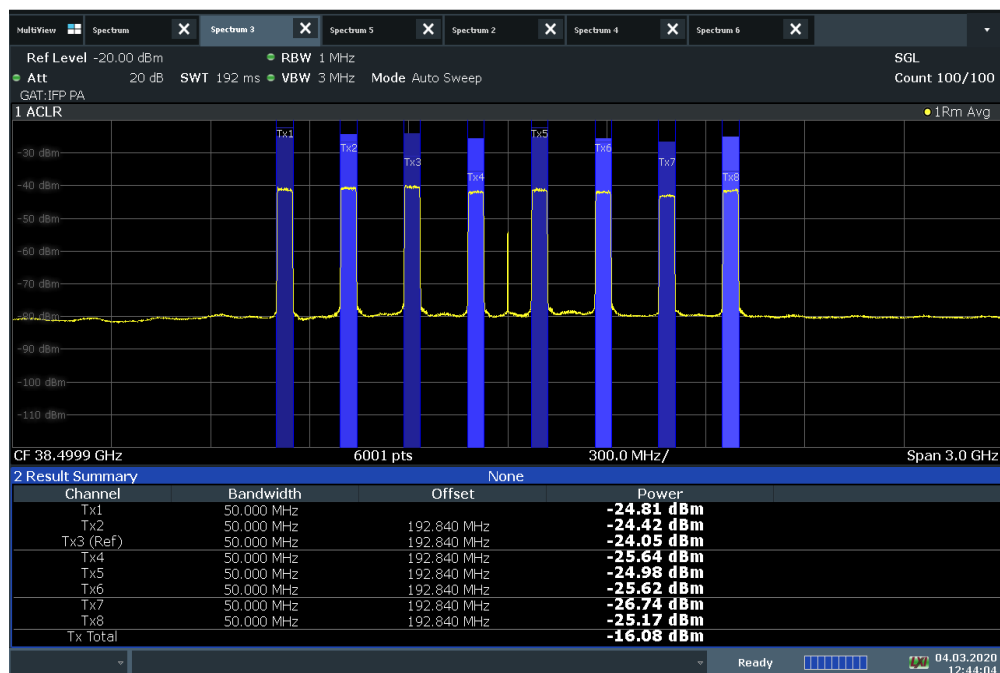


12:36:53 04.03.2020

Plot 7-200. Antenna C EIRP Density Plot (50MHz BW 8CC NC 16QAM Mid Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 128 of 360

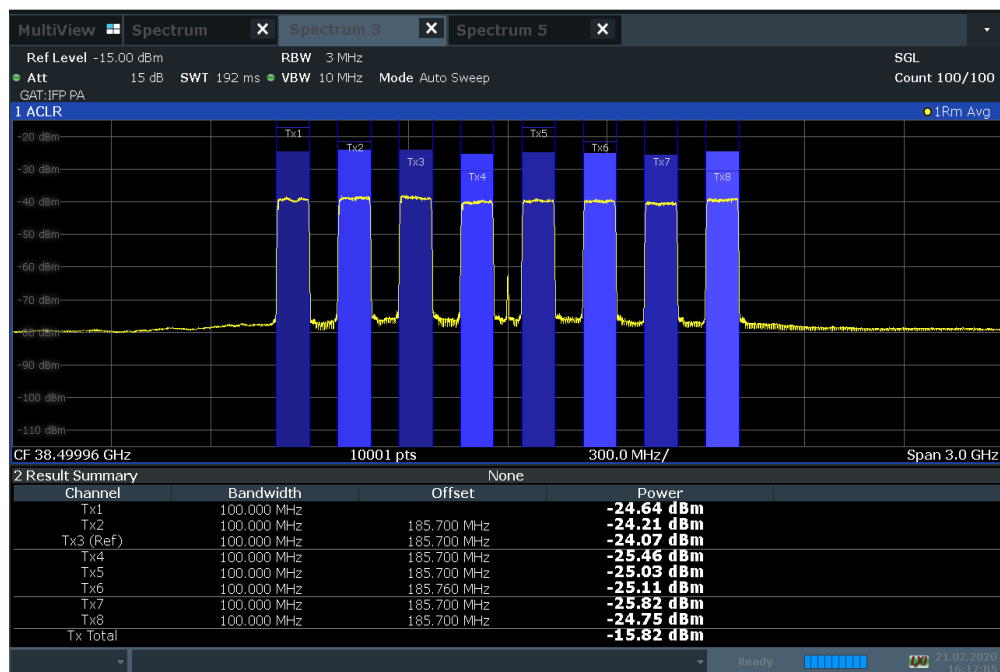
ACLRRResults



12:44:05 04.03.2020

Plot 7-201. Antenna C EIRP Density Plot (50MHz BW 8CC NC 64QAM Mid Channel)

ACLRRResults

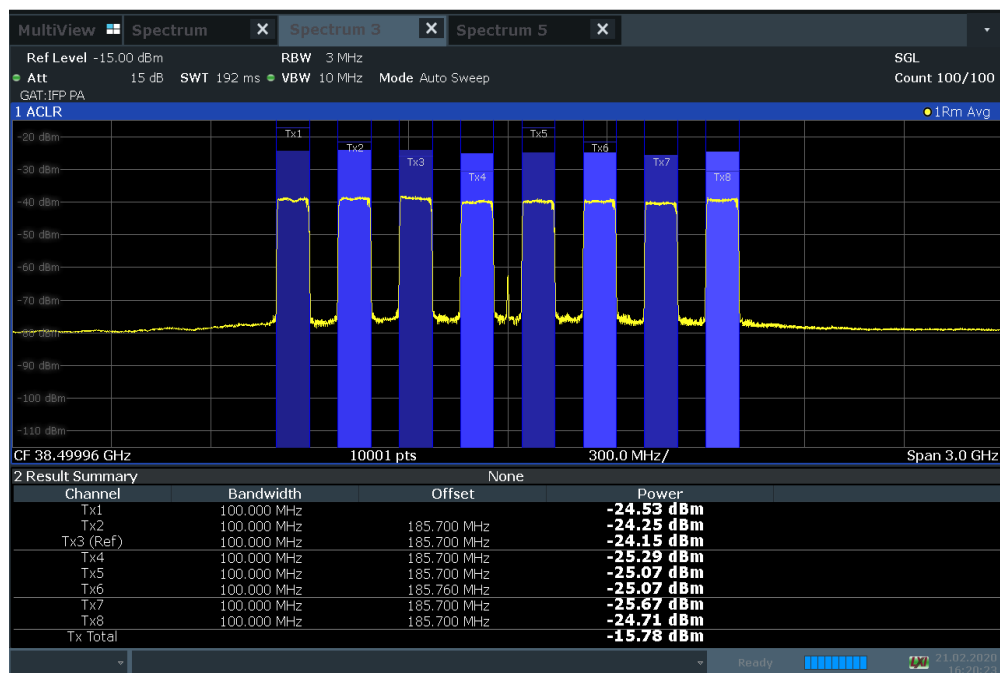


16:17:06 21.02.2020

Plot 7-202. Antenna C EIRP Density Plot (100MHz BW 8CC NC QPSK Mid Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 129 of 360

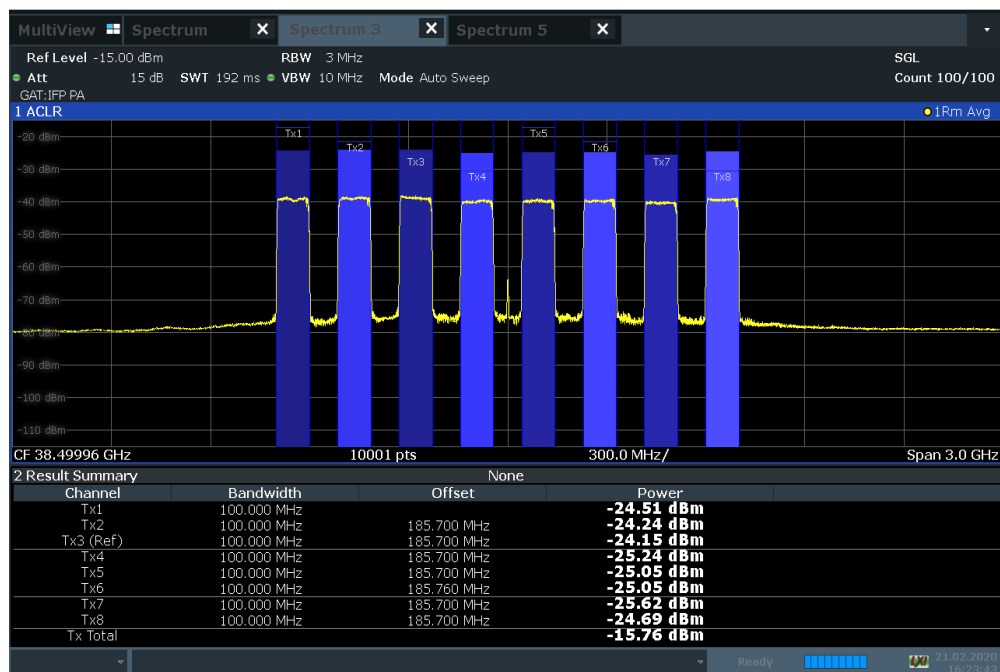
ACLRRResults



16:20:24 21.02.2020

Plot 7-203. Antenna C EIRP Density Plot (100MHz BW 8CC NC 16QAM Mid Channel)

ACLRRResults

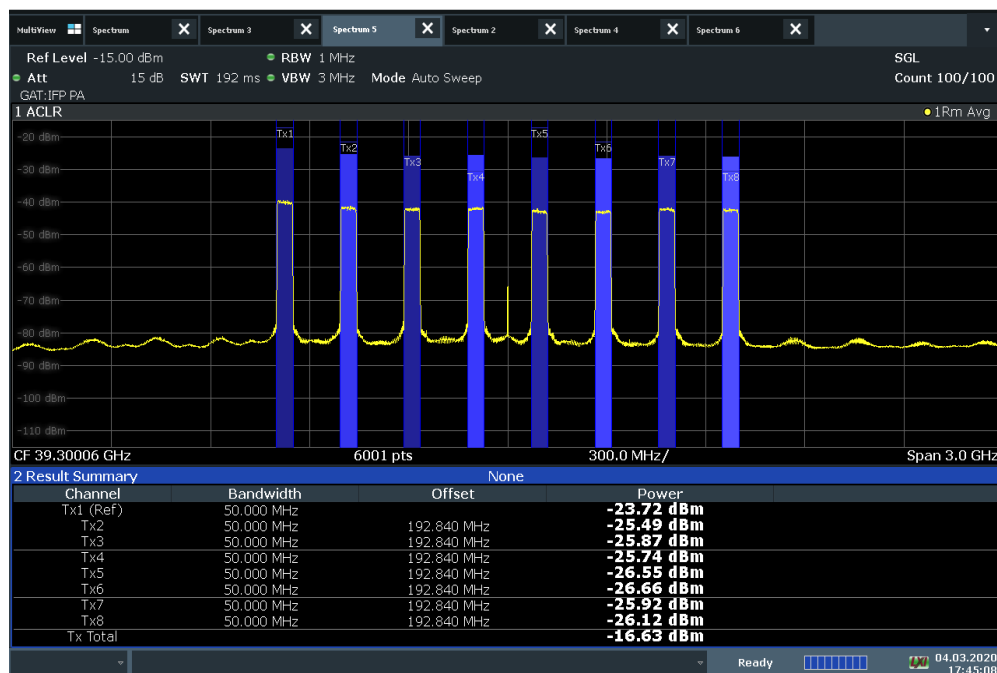


16:23:44 21.02.2020

Plot 7-204. Antenna C EIRP Density Plot (100MHz BW 8CC NC 64QAM Mid Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 130 of 360

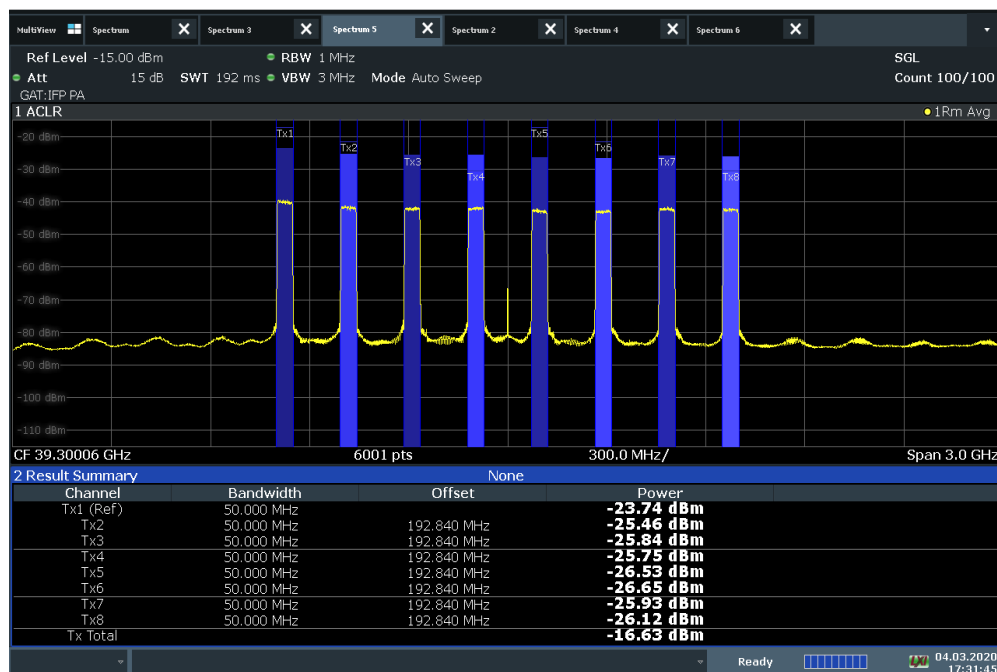
ACLRRResults



17:45:08 04.03.2020

Plot 7-205. Antenna C EIRP Density Plot (50MHz BW 8CC NC QPSK High Channel)

ACLRRResults

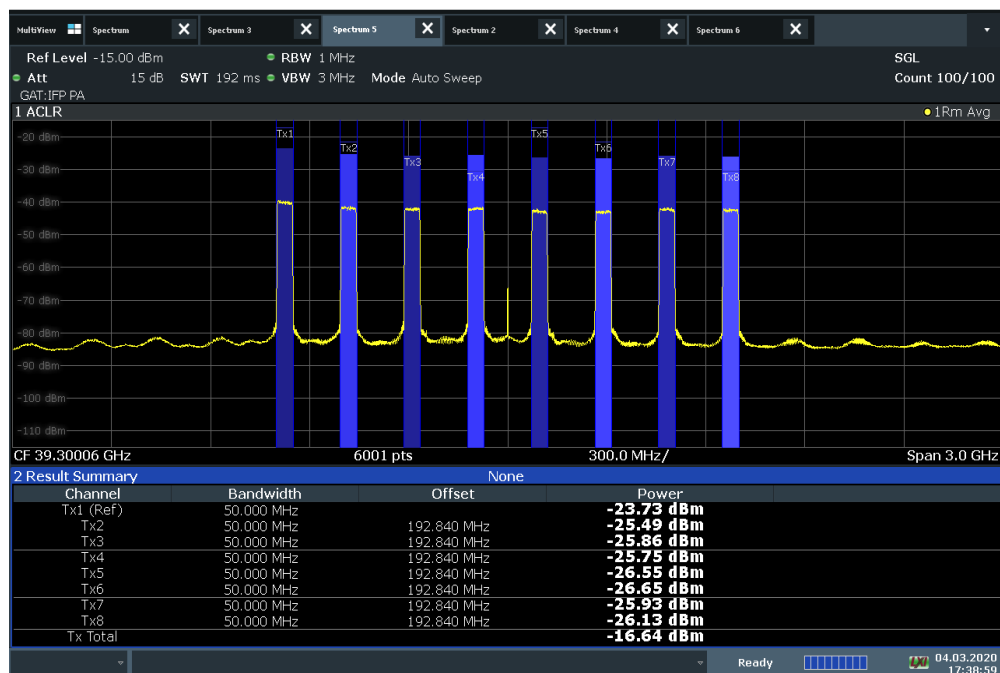


17:31:45 04.03.2020

Plot 7-206. Antenna C EIRP Density Plot (50MHz BW 8CC NC 16QAM High Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 131 of 360

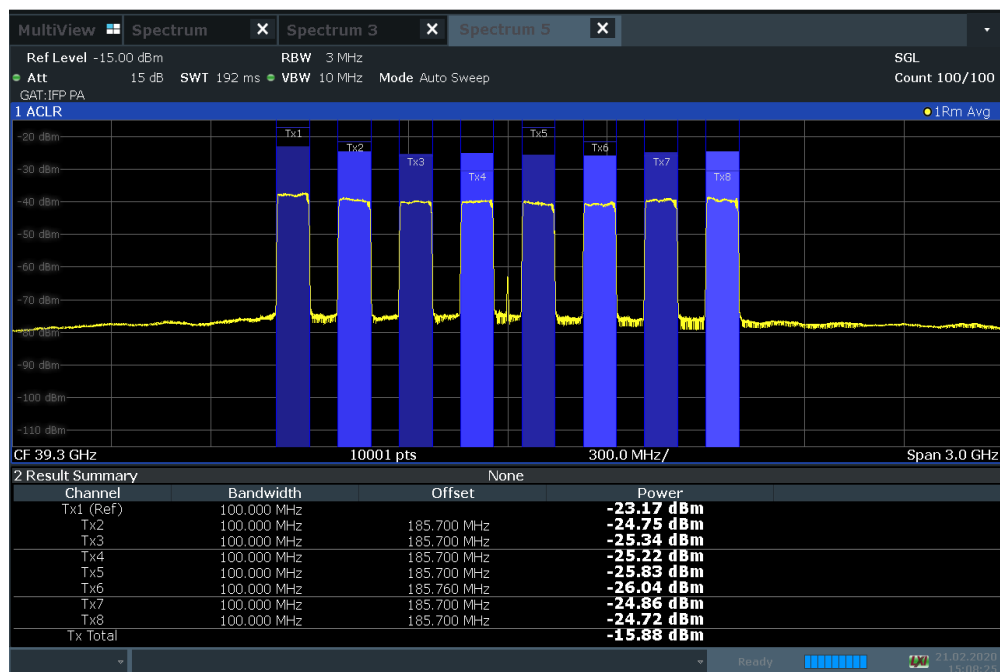
ACLRRResults



17:38:59 04.03.2020

Plot 7-207. Antenna C EIRP Density Plot (50MHz BW 8CC NC 64QAM High Channel)

ACLRRResults

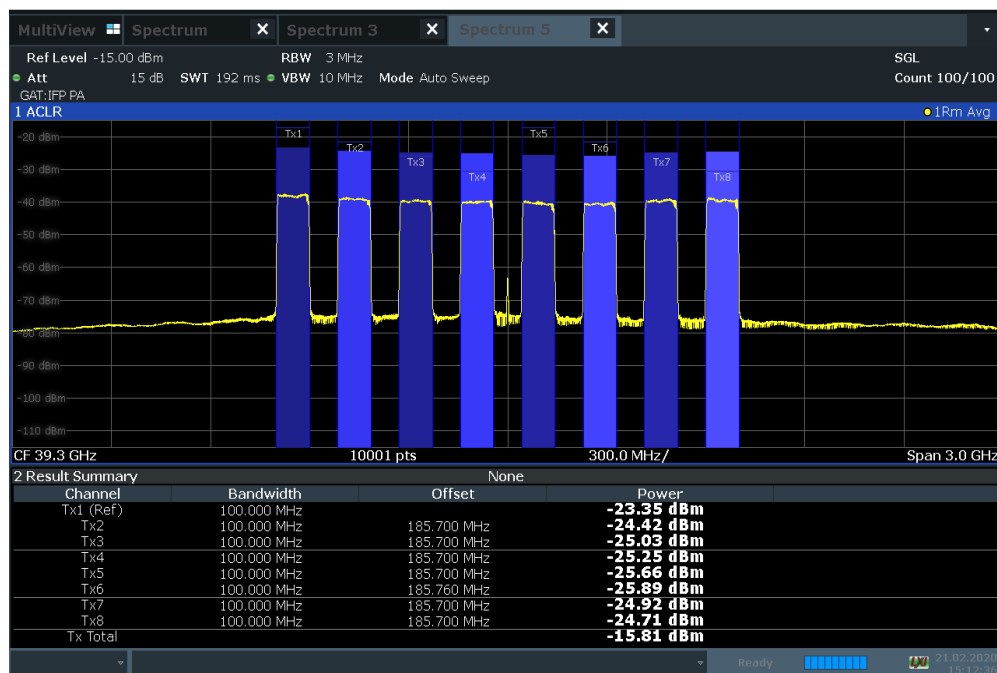


15:08:26 21.02.2020

Plot 7-208. Antenna C EIRP Density Plot (100MHz BW 8CC NC QPSK High Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 132 of 360

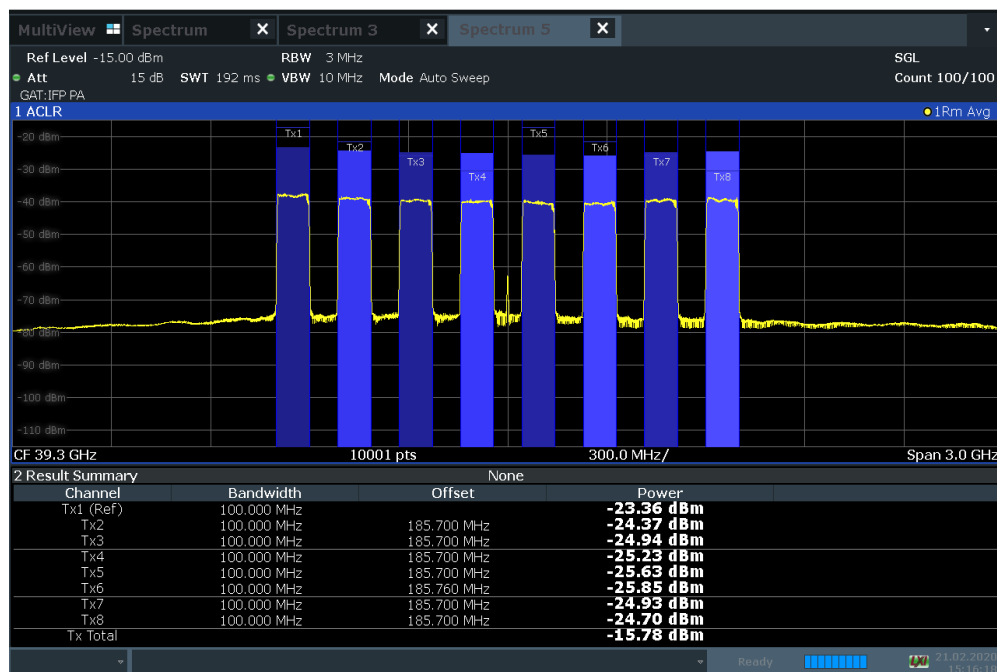
ACLRRResults



15:12:37 21.02.2020

Plot 7-209. Antenna C EIRP Density Plot (100MHz BW 8CC NC 16QAM High Channel)

ACLRRResults



15:16:19 21.02.2020

Plot 7-210. Antenna C EIRP Density Plot (100MHz BW 8CC NC 64QAM High Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 133 of 360

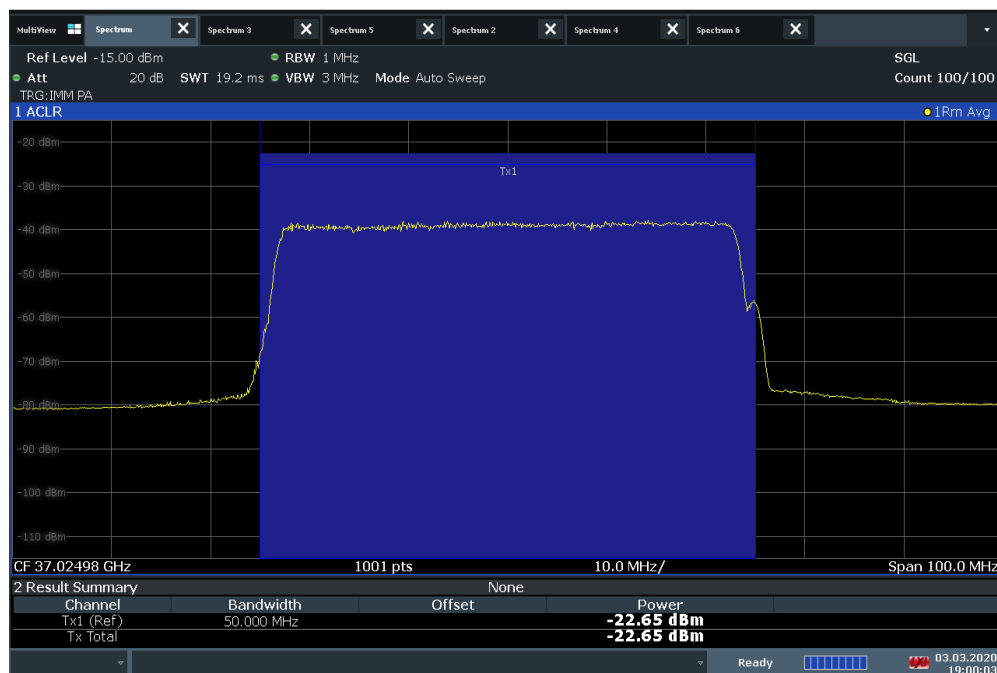
7.3.4 Antenna D EIRP Density

Antenna	Bandwidth	Channel	CCs active	Modulation	Horn Angle	Horn Height	Turntable Azimuth	Analyzer Level	AFCL	Average e.i.r.p. PSD	PSD Limit	Margin
	[MHz]				[degrees]	[cm]	[degrees]	[dBm]	[dB/m]	[dBm/100MHz]	[dBm/100MHz]	[dB]
D	50	Low	0	QPSK	45.0	141	10	-22.65	57.22	48.11	75.00	-29.90
		Low	0	16QAM	45.0	141	10	-22.63	57.22	48.13	75.00	-29.88
		Low	0	64QAM	45.0	141	10	-22.66	57.22	48.10	75.00	-29.91
	100	Low	0	QPSK	45.0	141	10	-18.73	57.22	49.02	75.00	-25.98
		Low	0	16QAM	45.0	141	10	-18.74	57.22	49.01	75.00	-25.99
		Low	0	64QAM	45.0	141	10	-18.75	57.22	49.00	75.00	-26.00
	50	Mid	4	QPSK	45.0	141	10	-22.59	57.17	48.12	75.00	-29.89
		Mid	4	16QAM	45.0	141	10	-22.60	57.17	48.11	75.00	-29.90
		Mid	4	64QAM	45.0	141	10	-22.58	57.17	48.13	75.00	-29.88
	100	Mid	4	QPSK	45.0	141	10	-19.13	57.17	48.57	75.00	-26.43
		Mid	4	16QAM	45.0	141	10	-19.13	57.17	48.57	75.00	-26.43
		Mid	4	64QAM	45.0	141	10	-19.14	57.17	48.56	75.00	-26.44
	50	High	7	QPSK	45.0	141	10	-22.73	58.95	49.76	75.00	-28.25
		High	7	16QAM	45.0	141	10	-22.75	58.95	49.74	75.00	-28.27
		High	7	64QAM	45.0	141	10	-22.74	58.95	49.75	75.00	-28.26
	100	High	7	QPSK	45.0	141	10	-19.81	58.95	49.67	75.00	-25.33
		High	7	16QAM	45.0	141	10	-19.82	58.95	49.66	75.00	-25.34
		High	7	64QAM	45.0	141	10	-19.81	58.95	49.67	75.00	-25.33
	50	Low	0-7	QPSK	45.0	141	10	-24.73	57.22	46.03	75.00	-31.98
		Low	0-7	16QAM	45.0	141	10	-24.67	57.22	46.09	75.00	-31.92
		Low	0-7	64QAM	45.0	141	10	-24.65	57.22	46.11	75.00	-31.90
	100	Low	0-7	QPSK	45.0	141	10	-23.95	57.22	43.80	75.00	-31.20
		Low	0-7	16QAM	45.0	141	10	-23.68	57.22	44.07	75.00	-30.93
		Low	0-7	64QAM	45.0	141	10	-23.65	57.22	44.10	75.00	-30.90
	50	Mid	0-7	QPSK	45.0	141	10	-23.99	57.17	46.72	75.00	-31.29
		Mid	0-7	16QAM	45.0	141	10	-24.00	57.17	46.71	75.00	-31.30
		Mid	0-7	64QAM	45.0	141	10	-24.08	57.17	46.63	75.00	-31.38
	100	Mid	0-7	QPSK	45.0	141	10	-23.05	57.17	44.65	75.00	-30.35
		Mid	0-7	16QAM	45.0	141	10	-23.20	57.17	44.50	75.00	-30.50
		Mid	0-7	64QAM	45.0	141	10	-23.67	57.17	44.03	75.00	-30.97
	50	High	0-7	QPSK	45.0	141	10	-24.74	58.95	47.75	75.00	-30.26
		High	0-7	16QAM	45.0	141	10	-24.76	58.95	47.73	75.00	-30.28
		High	0-7	64QAM	45.0	141	10	-24.79	58.95	47.70	75.00	-30.31
	100	High	0-7	QPSK	45.0	141	10	-24.43	58.95	45.05	75.00	-29.95
		High	0-7	16QAM	45.0	141	10	-23.97	58.95	45.51	75.00	-29.49
		High	0-7	64QAM	45.0	141	10	-23.96	58.95	45.52	75.00	-29.48
	50	Low	0-7(NC)	QPSK	45.0	141	10	-23.44	57.22	47.32	75.00	-30.69
		Low	0-7(NC)	16QAM	45.0	141	10	-23.43	57.22	47.33	75.00	-30.68
		Low	0-7(NC)	64QAM	45.0	141	10	-23.43	57.22	47.33	75.00	-30.68
	100	Low	0-7(NC)	QPSK	45.0	141	10	-22.48	57.22	45.27	75.00	-29.73
		Low	0-7(NC)	16QAM	45.0	141	10	-22.51	57.22	45.24	75.00	-29.76
		Low	0-7(NC)	64QAM	45.0	141	10	-22.61	57.22	45.14	75.00	-29.86
	50	Mid	0-7(NC)	QPSK	45.0	141	10	-23.96	57.17	46.75	75.00	-31.26
		Mid	0-7(NC)	16QAM	45.0	141	10	-23.94	57.17	46.77	75.00	-31.24
		Mid	0-7(NC)	64QAM	45.0	141	10	-23.94	57.17	46.77	75.00	-31.24
	100	Mid	0-7(NC)	QPSK	45.0	141	10	-23.56	57.17	44.14	75.00	-30.86
		Mid	0-7(NC)	16QAM	45.0	141	10	-23.27	57.17	44.43	75.00	-30.57
		Mid	0-7(NC)	64QAM	45.0	141	10	-23.23	57.17	44.47	75.00	-30.53
	50	High	0-7(NC)	QPSK	45.0	141	10	-23.83	58.95	48.66	75.00	-29.35
		High	0-7(NC)	16QAM	45.0	141	10	-23.89	58.95	48.60	75.00	-29.41
		High	0-7(NC)	64QAM	45.0	141	10	-23.71	58.95	48.78	75.00	-29.23
	100	High	0-7(NC)	QPSK	45.0	141	10	-22.72	58.95	46.76	75.00	-28.24
		High	0-7(NC)	16QAM	45.0	141	10	-22.75	58.95	46.73	75.00	-28.27
		High	0-7(NC)	64QAM	45.0	141	10	-22.79	58.95	46.69	75.00	-28.31

Table 7-10. Antenna D Power Density Summary Data

FCC ID: A3LAT1K02-A10	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 134 of 360

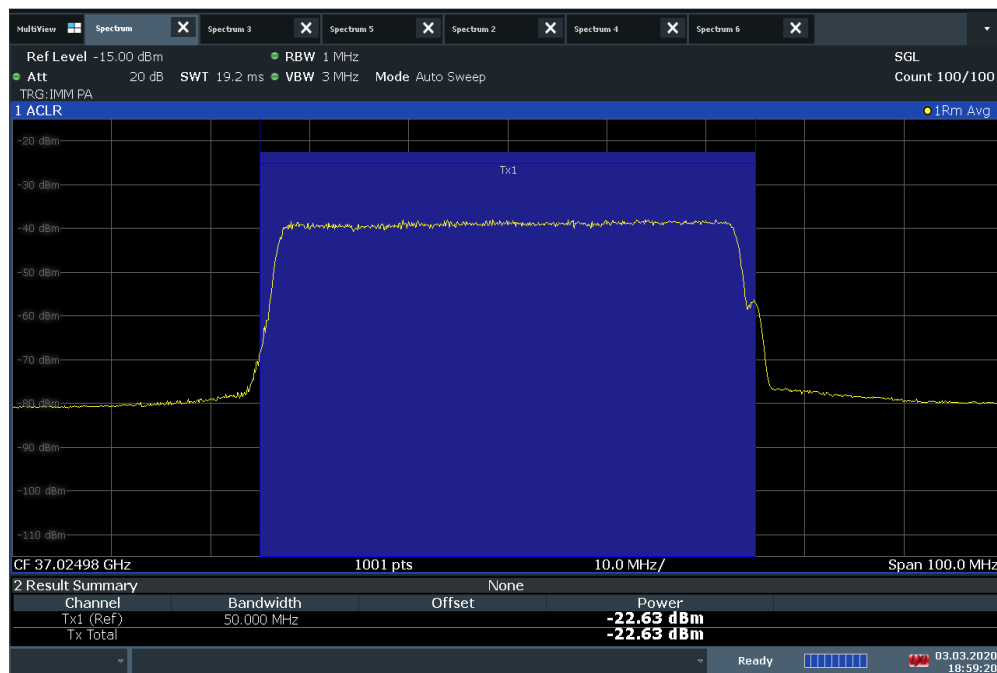
ACLRResults



19:00:03 03.03.2020

Plot 7-211. Antenna D EIRP Density Plot (50MHz BW 1CC QPSK Low Channel)

ACLRResults

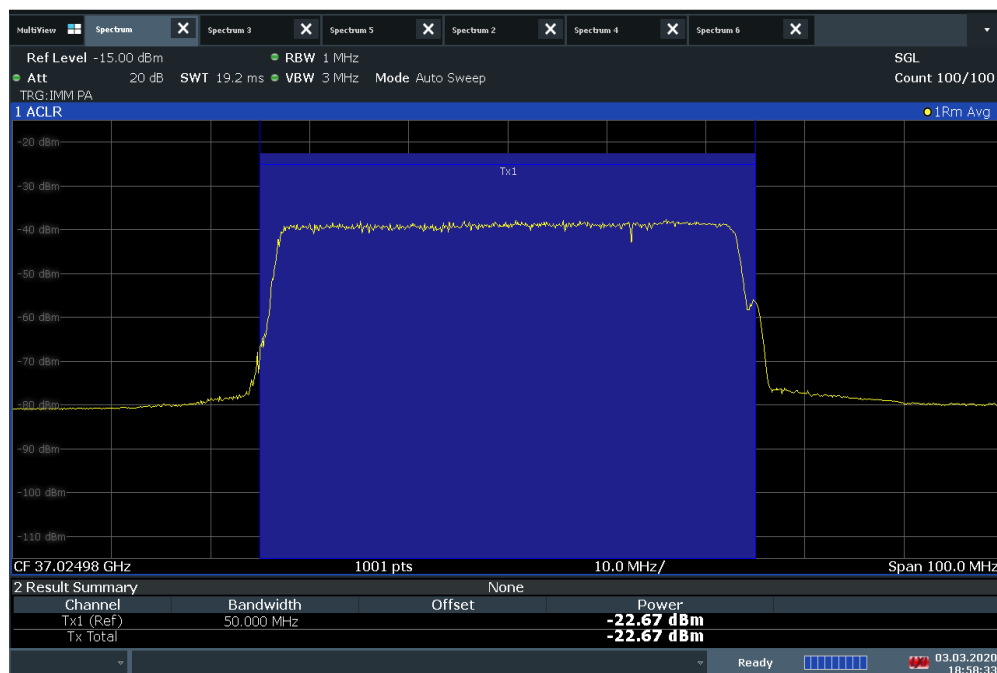


18:59:21 03.03.2020

Plot 7-212. Antenna D EIRP Density Plot (50MHz BW 1CC 16QAM Low Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 135 of 360

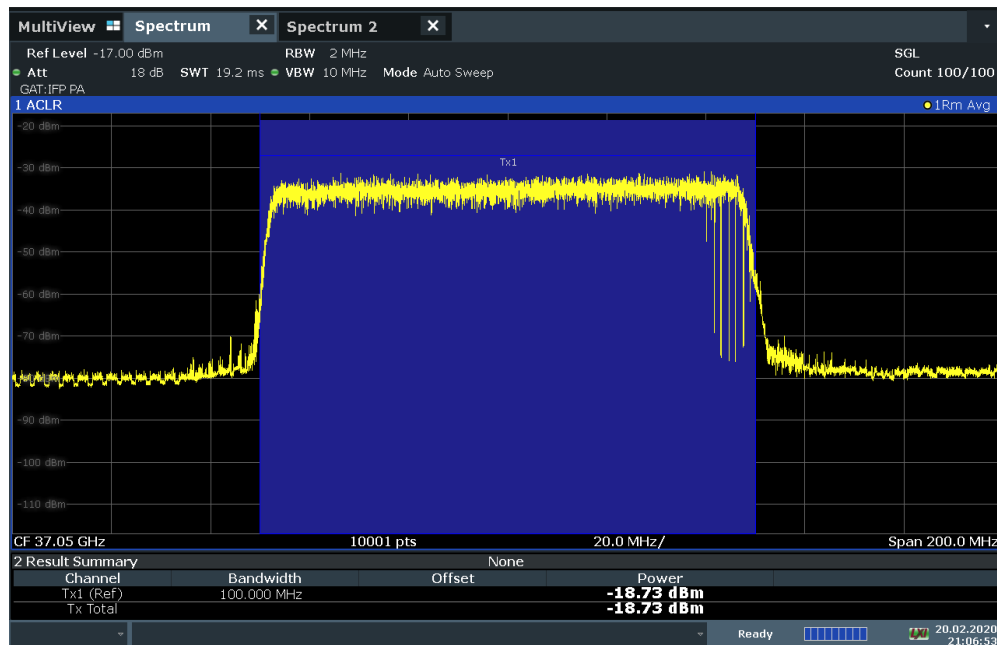
ACLRResults



18:58:33 03.03.2020

Plot 7-213. Antenna D EIRP Density Plot (50MHz BW 1CC 64QAM Low Channel)

ACLRResults

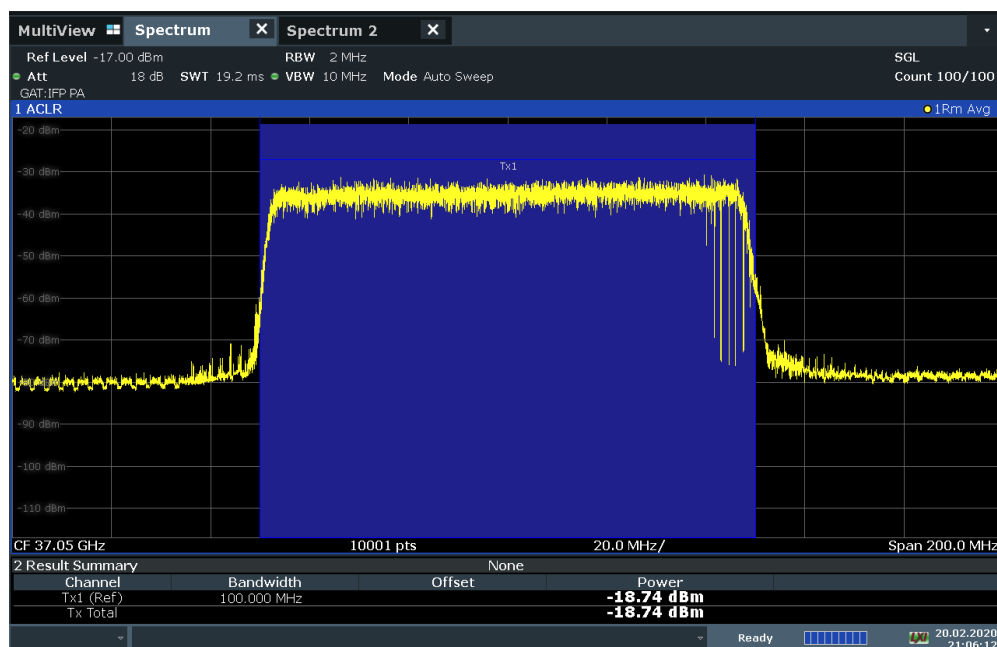


21:06:54 20.02.2020

Plot 7-214. Antenna D EIRP Density Plot (100MHz BW 1CC QPSK Low Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 136 of 360

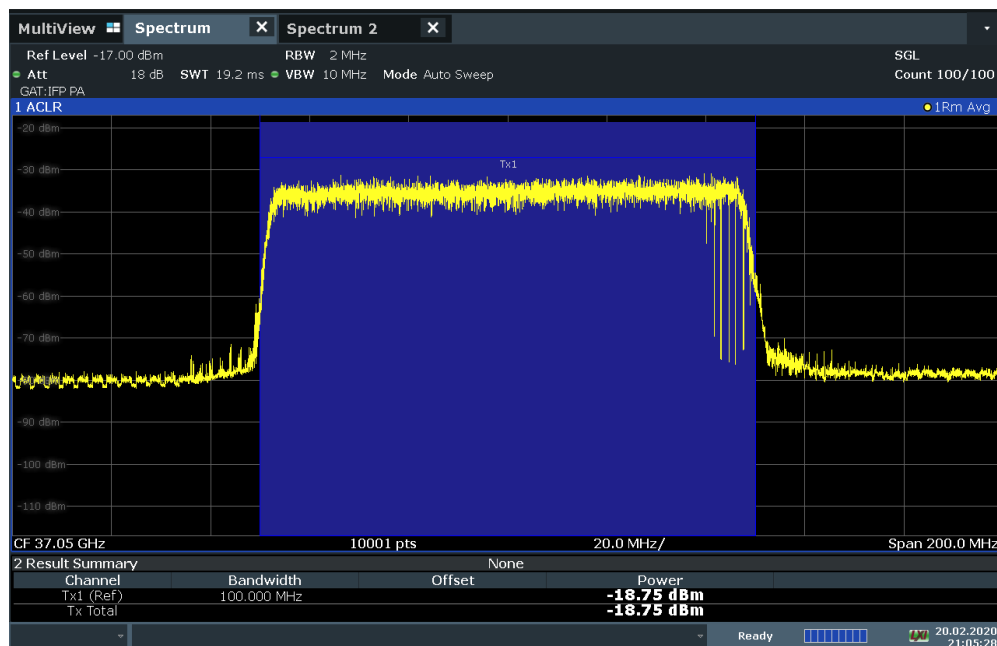
ACLRRResults



21:06:13 20.02.2020

Plot 7-215. Antenna D EIRP Density Plot (100MHz BW 1CC 16QAM Low Channel)

ACLRRResults

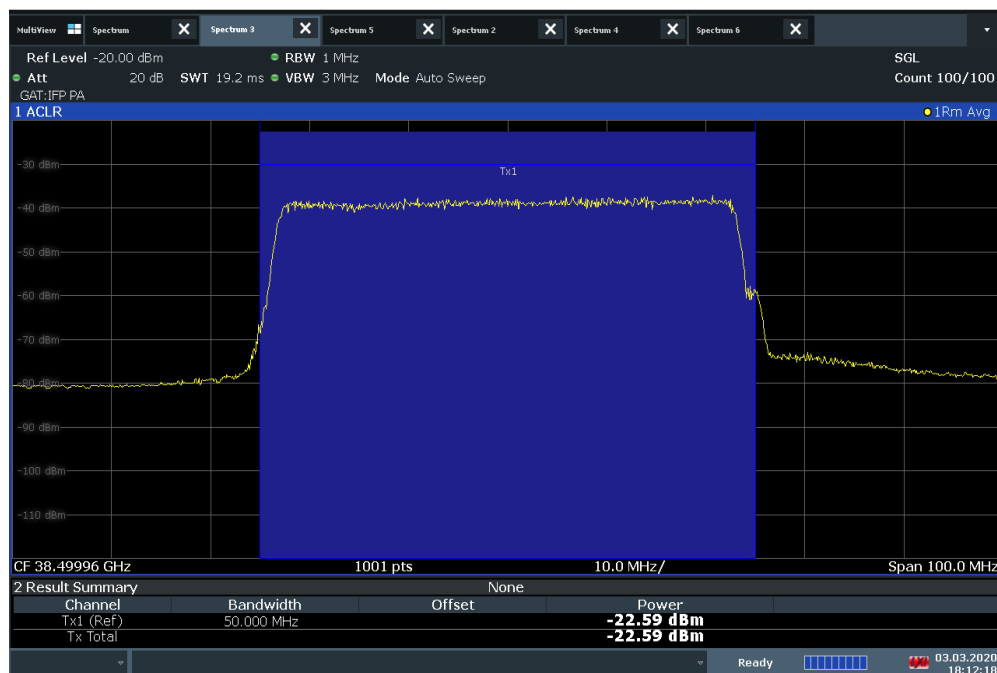


21:05:28 20.02.2020

Plot 7-216. Antenna D EIRP Density Plot (100MHz BW 1CC 64QAM Low Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 137 of 360

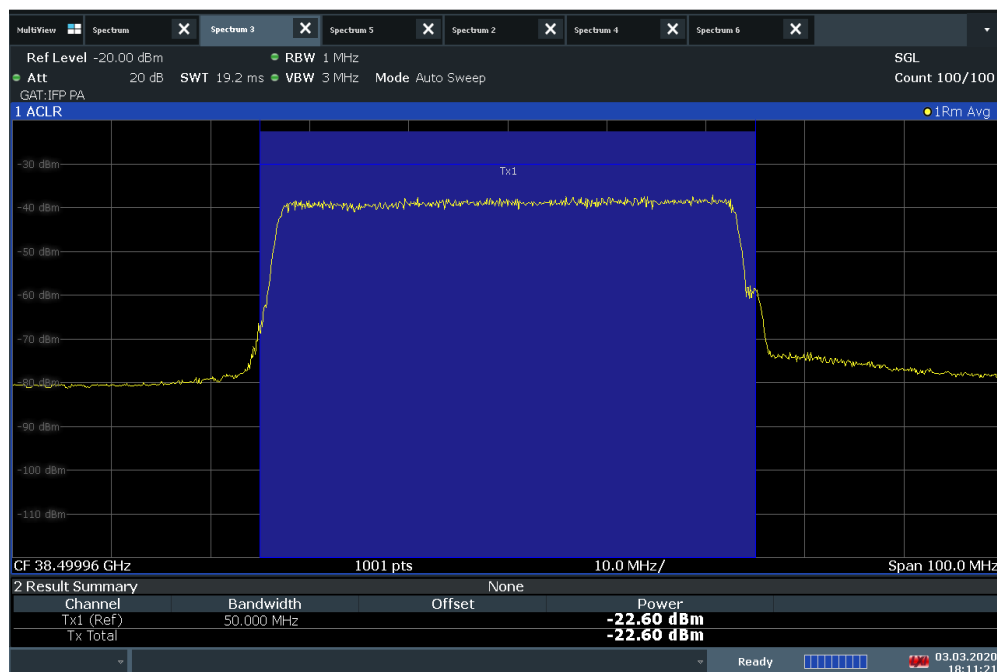
ACLRRResults



18:12:19 03.03.2020

Plot 7-217. Antenna D EIRP Density Plot (50MHz BW 1CC QPSK Mid Channel)

ACLRRResults

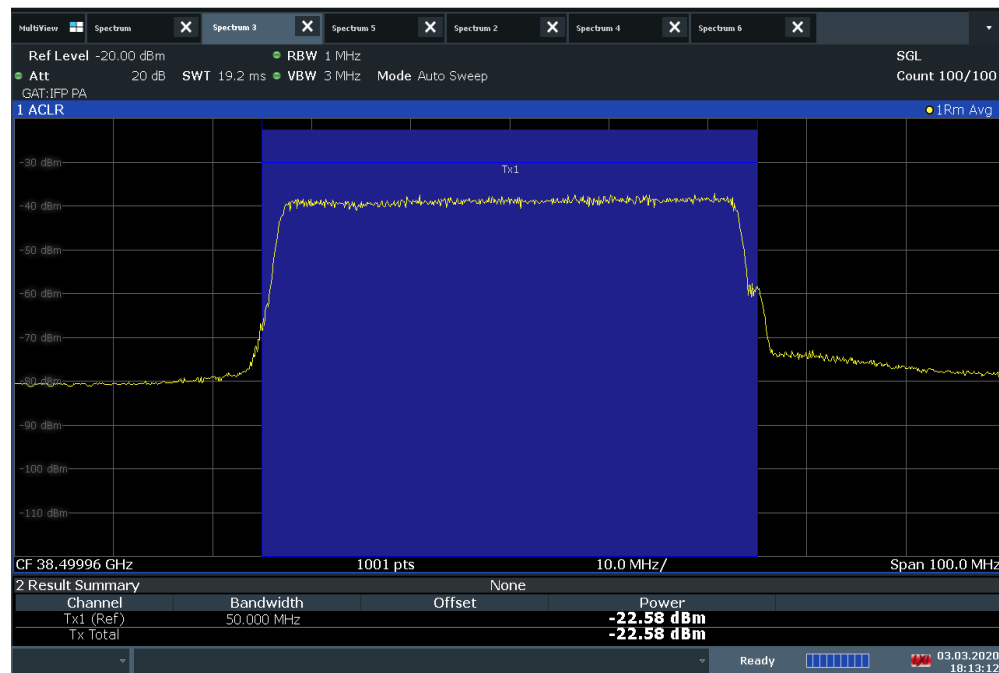


18:11:22 03.03.2020

Plot 7-218. Antenna D EIRP Density Plot (50MHz BW 1CC 16QAM Mid Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 138 of 360

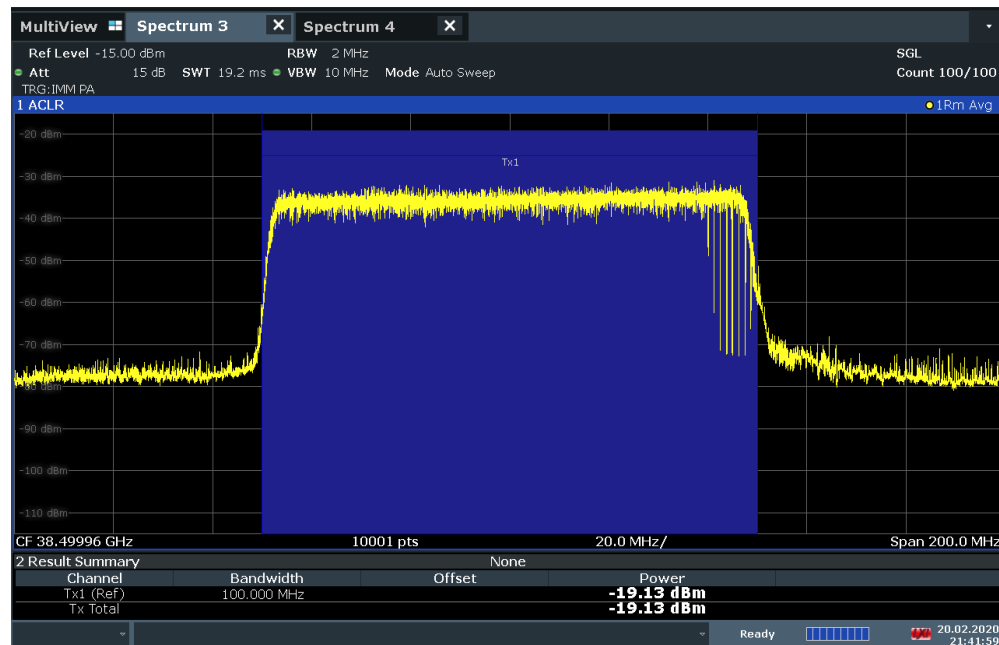
ACLRResults



18:13:13 03.03.2020

Plot 7-219. Antenna D EIRP Density Plot (50MHz BW 1CC 64QAM Mid Channel)

ACLRResults

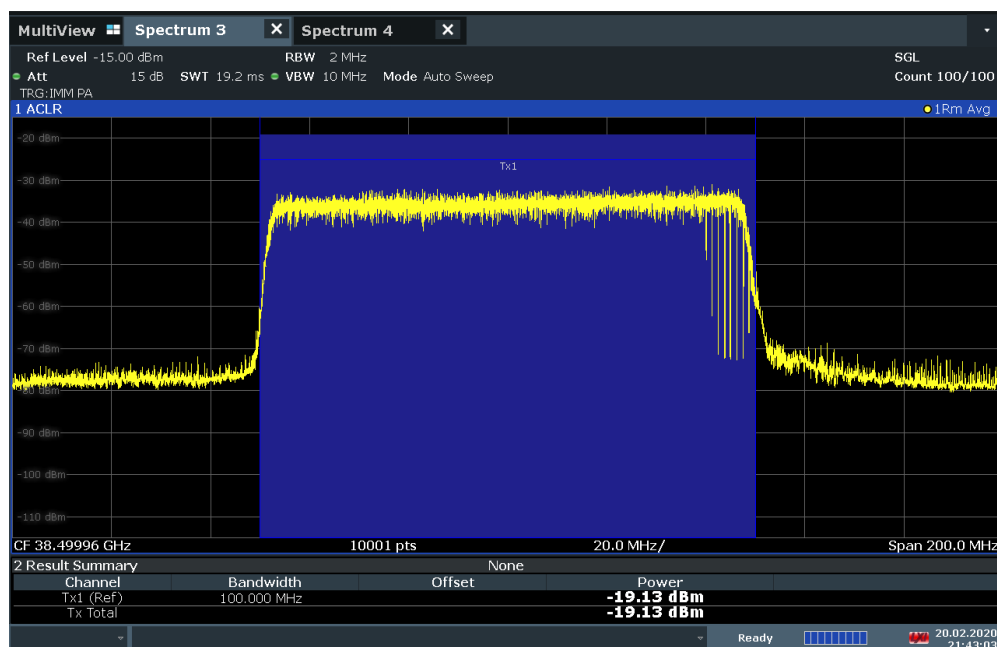


21:41:59 20.02.2020

Plot 7-220. Antenna D EIRP Density Plot (100MHz BW 1CC QPSK Mid Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 139 of 360

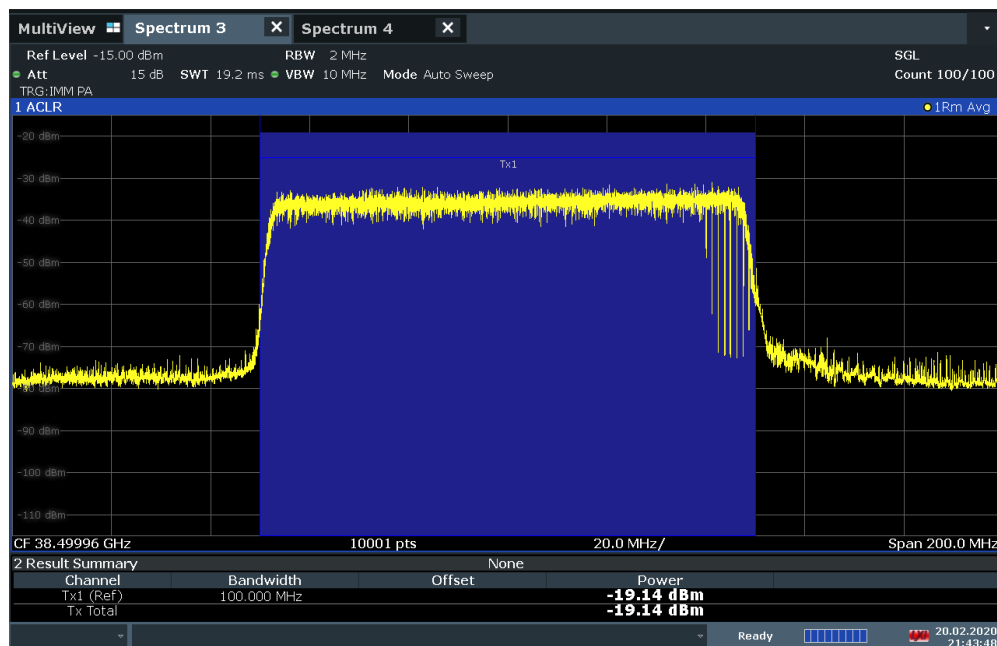
ACLRRResults



21:43:04 20.02.2020

Plot 7-221. Antenna D EIRP Density Plot (100MHz BW 1CC 16QAM Mid Channel)

ACLRRResults



21:43:48 20.02.2020

Plot 7-222. Antenna D EIRP Density Plot (100MHz BW 1CC 64QAM Mid Channel)

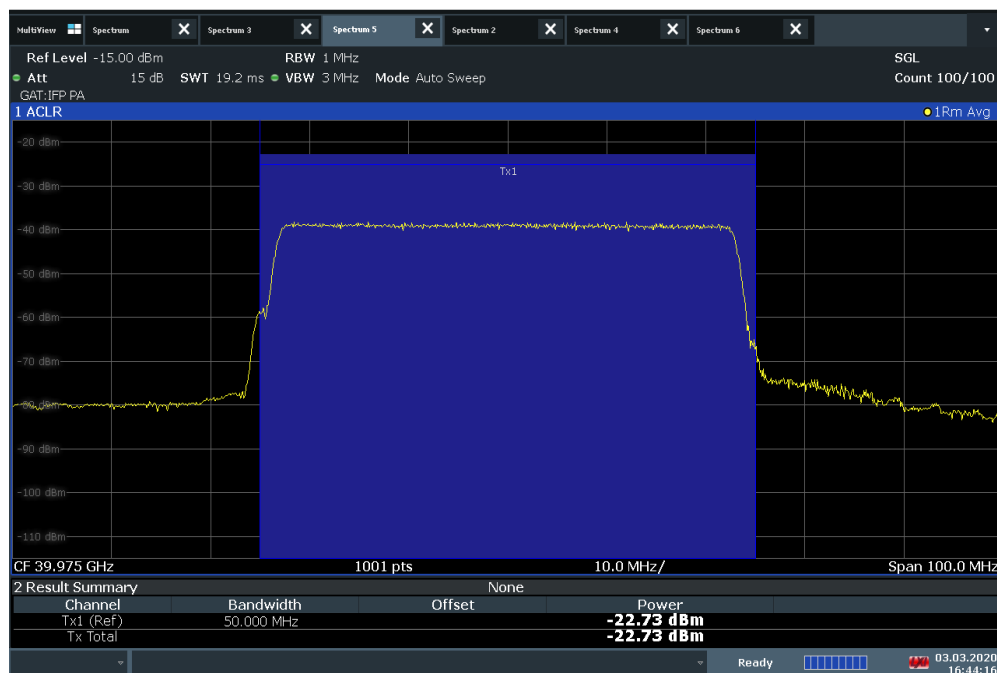
FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 140 of 360

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V9.0 02/01/2019

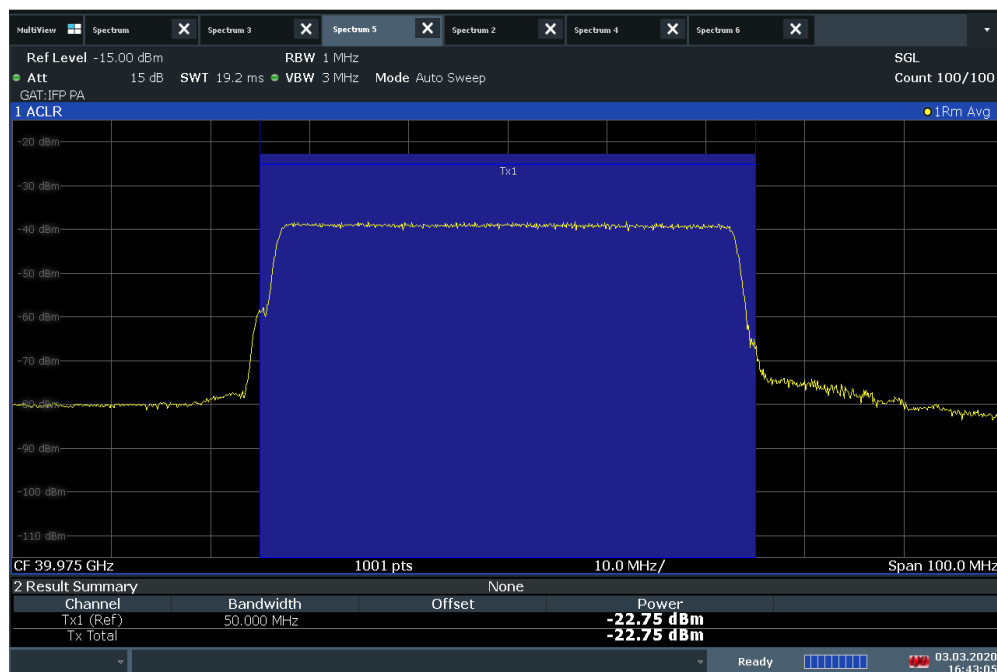
ACLRResults



16:44:17 03.03.2020

Plot 7-223. Antenna D EIRP Density Plot (50MHz BW 1CC QPSK High Channel)

ACLRResults

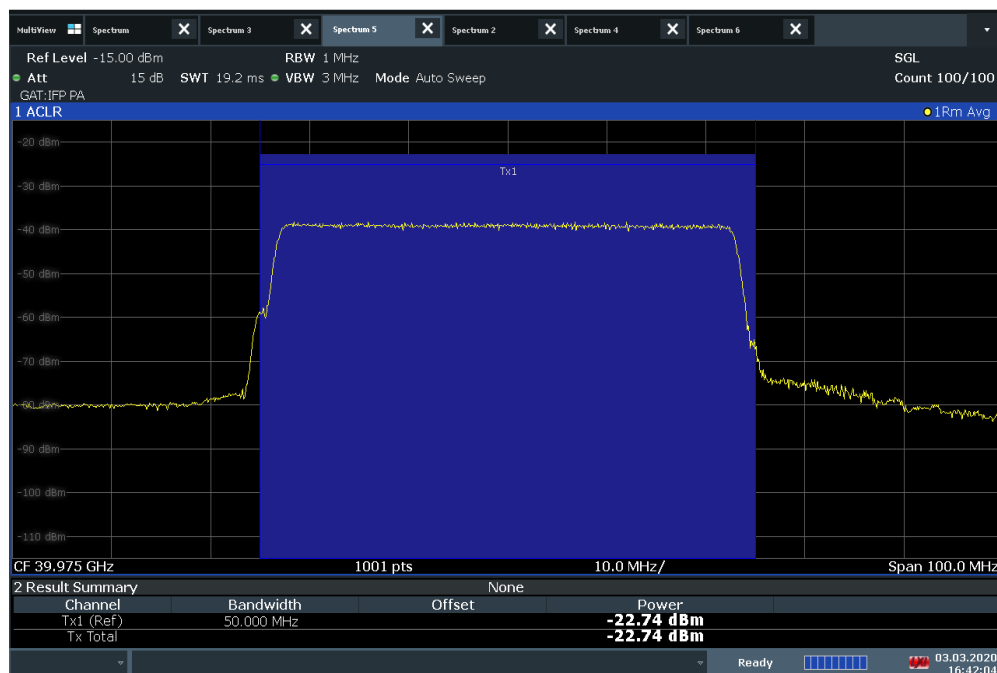


16:43:06 03.03.2020

Plot 7-224. Antenna D EIRP Density Plot (50MHz BW 1CC 16QAM High Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 141 of 360

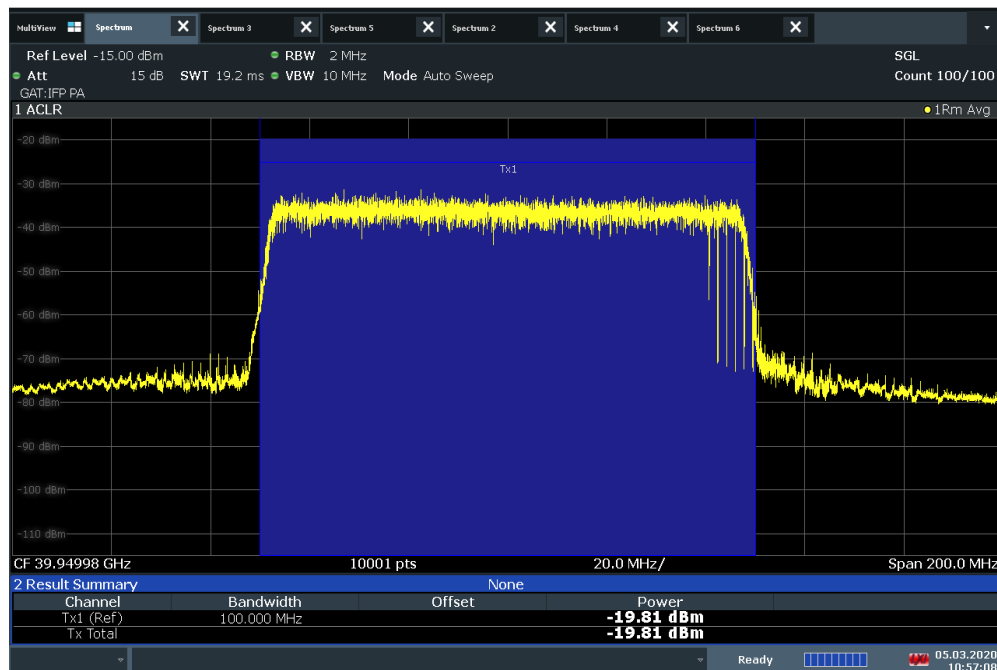
ACLRResults



16:42:05 03.03.2020

Plot 7-225. Antenna D EIRP Density Plot (50MHz BW 1CC 64QAM High Channel)

ACLRResults



10:57:09 05.03.2020

Plot 7-226. Antenna D EIRP Density Plot (100MHz BW 1CC QPSK High Channel)

FCC ID: A3LAT1K02-A10	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 8K19110702-01-R1.A3L	Test Dates: 02/18/2020-03/06/2020	EUT Type: 5G Access Unit		Page 142 of 360