

30MHz - 1GHz







Plot 7-170. Ant2-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam)

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Plot 7-171. Ant2-n260 Radiated Spurious Plot 1GHz - 18GHz (1CC QPSK Mid Channel H Beam – ENDC)



Plot 7-172. Ant2-n260 Radiated Spurious Plot 1GHz - 18GHz (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
8407.15	Low	50	Н	QPSK	V	155	332	-46.83	-13.00	-33.83
8407.15	Low	50	V	QPSK	Н	240	8	-48.14	-13.00	-35.14
9109.17	Mid	50	Н	QPSK	V	214	346	-41.72	-13.00	-28.72
9109.17	Mid	50	V	QPSK	Н	161	312	-46.27	-13.00	-33.27
9144.46	High	50	Н	QPSK	V	145	350	-43.12	-13.00	-30.12
9144.46	High	50	V	QPSK	Н	143	315	-47.69	-13.00	-34.69

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8

Table 7-113. Ant2 - SISO -Spurious Emissions Table (1GHz - 18GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-44.43	-13.00	-31.43
Mid	50 QPSK		-40.41	-13.00	-27.41
High	50	QPSK	-41.82	-13.00	-28.82
Table 74	44 4 4 40 14		- Emissions Tabl		40011-1

Table 7-114. Ant2 - MIMO -Spurious Emissions Table (1GHz - 18GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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Plot 7-174. Ant2-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
36701.70	Low	50	Н	QPSK	Н	120	55	-31.39	-13.00	-18.39
36420.20	Low	50	V	QPSK	V	145	23	-31.17	-13.00	-18.17
36985.15	Mid	50	Н	QPSK	Н	149	54	-31.74	-13.00	-18.74
36999.10	Mid	50	V	QPSK	V	157	33	-30.38	-13.00	-17.38
36725.50	High	50	Н	QPSK	Н	118	45	-31.25	-13.00	-18.25
36663.50	High	50	V	QPSK	V	55	124	-30.88	-13.00	-17.88

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8

Table 7-115. Ant2 - SISO -Spurious Emissions Table (18GHz – 36.85GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-28.27	-13.00	-15.27
Mid	50	QPSK	-27.99	-13.00	-14.99
High	50	QPSK	-28.05	-13.00	-15.05

Table 7-116. Ant2 - MIMO -Spurious Emissions Table (18GHz – 36.85GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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40.15GHz - 60GHz







Plot 7-176. Ant2-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1.5 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
44083.13	Low	50	Н	QPSK	V	129	150	-29.17	-13.00	-16.17
44083.30	Low	50	V	QPSK	V	180	153	-30.25	-13.00	-17.25
44083.14	Mid	50	Н	QPSK	V	130	155	-30.14	-13.00	-17.14
44083.04	Mid	50	V	QPSK	V	179	153	-32.32	-13.00	-19.32
44083.15	High	50	Н	QPSK	V	125	155	-31.73	-13.00	-18.73
44083.15	High	50	V	QPSK	V	181	155	-30.65	-13.00	-17.65

Table 7-117. Ant2 - SISO -Spurious Emissions Table (40.15GHz - 60GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-26.67	-13.00	-13.67
Mid	50	QPSK	-28.08	-13.00	-15.08
High	50	QPSK	-28.14	-13.00	-15.14

Table 7-118. Ant2 - MIMO -Spurious Emissions Table (40.15GHz - 60GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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Plot 7-178. Ant2-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
74056.14	Low	50	Н	QPSK	Н	287	167	-53.54	-13.00	-40.54
74055.60	Low	50	V	QPSK	V	272	77	-54.23	-13.00	-41.23
76996.41	Mid	50	Н	QPSK	Н	76	257	-50.50	-13.00	-37.50
76995.99	Mid	50	V	QPSK	V	99	321	-51.70	-13.00	-38.70
79933.95	High	50	Н	QPSK	Н	248	14	-52.67	-13.00	-39.67
79933.77	High	50	V	QPSK	V	76	264	-47.91	-13.00	-34.91

Table 7-119. Ant2 - SISO -Spurious Emissions Table (60GHz - 90GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-50.86	-13.00	-37.86
Mid	50	QPSK	-48.05	-13.00	-35.05
High	50	QPSK	-46.66	-13.00	-33.66

Table 7-120. Ant2 - MIMO - Spurious Emissions Table (60GHz - 90GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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Plot 7-180. Ant2-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
111083.34	Low	50	Н	QPSK	Н	48	354	-49.90	-13.00	-36.90
111082.08	Low	50	V	QPSK	Н	-	-	-51.24	-13.00	-38.24
115494.93	Mid	50	Н	QPSK	Н	-	-	-51.44	-13.00	-38.44
115504.14	Mid	50	V	QPSK	Н	-	-	-51.38	-13.00	-38.38
119900.40	High	50	Н	QPSK	Н	337	49	-44.98	-13.00	-31.98
119900.58	High	50	V	QPSK	Н	283	49	-43.30	-13.00	-30.30

Table 7-121. Ant2 - SISO -Spurious Emissions Table (90GHz - 140GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-47.51	-13.00	-34.51
Mid	50	QPSK	-48.40	-13.00	-35.40
High	50	QPSK	-41.05	-13.00	-28.05

Table 7-122. Ant2 - MIMO -Spurious Emissions Table (90GHz - 140GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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Plot 7-182. Ant2-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
141445.50	Low	50	Н	QPSK	н	-	-	-32.58	-13.00	-19.58
141490.50	Low	50	V	QPSK	Н	-	-	-32.38	-13.00	-19.38
141472.00	Mid	50	Н	QPSK	Н	-	-	-32.39	-13.00	-19.39
141432.50	Mid	50	V	QPSK	Н	-	-	-32.78	-13.00	-19.78
141465.50	High	50	Н	QPSK	Н	-	-	-32.50	-13.00	-19.50
141472.50	High	50	V	QPSK	Н	-	-	-32.80	-13.00	-19.80

Table 7-123. Ant2 - SISO -Spurious Emissions Table (140GHz - 170GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-29.47	-13.00	-16.47
Mid	50	QPSK	-29.57	-13.00	-16.57
High	50	QPSK	-29.64	-13.00	-16.64

 Table 7-124. Ant2 - MIMO - Spurious Emissions Table (140GHz - 170GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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Plot 7-184. Ant2-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
172061.00	Low	50	Н	QPSK	н	-	-	-35.28	-13.00	-22.28
172060.50	Low	50	V	QPSK	Н	-	-	-35.10	-13.00	-22.10
171935.50	Mid	50	Н	QPSK	Н	-	-	-35.09	-13.00	-22.09
190916.50	Mid	50	V	QPSK	Н	-	-	-35.17	-13.00	-22.17
171886.00	High	50	Н	QPSK	Н	-	-	-34.85	-13.00	-21.85
171822.00	High	50	V	QPSK	Н	-	-	-35.15	-13.00	-22.15

Table 7-125. Ant2 - SISO -Spurious Emissions Table (170GHz - 200GHz)

Channnel	Bandwidth (MHz)	Modulation	ation Spurious [dBm]		Margin [dB]
Low	50	QPSK	-32.18	-13.00	-19.18
Mid	50	QPSK	-32.12	-13.00	-19.12
High	50	QPSK	-31.98	-13.00	-18.98

Table 7-126. Ant2 - MIMO -Spurious Emissions Table (170GHz - 200GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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30MHz - 1GHz







Plot 7-186. Ant3-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam)

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Plot 7-187. Ant3-n260 Radiated Spurious Plot 1GHz - 18GHz (1CC QPSK Mid Channel H Beam – ENDC)



Plot 7-188. Ant3-n260 Radiated Spurious Plot 1GHz - 18GHz (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
8407.15	Low	50	Н	QPSK	Н	209	3	-52.57	-13.00	-39.57
8407.15	Low	50	V	QPSK	Н	183	30	-50.09	-13.00	-37.09
9109.17	Mid	50	Н	QPSK	Н	165	59	-48.14	-13.00	-35.14
9109.17	Mid	50	V	QPSK	Н	158	7	-48.73	-13.00	-35.73
9144.46	High	50	Н	QPSK	Н	148	61	-48.83	-13.00	-35.83
9144.46	High	50	V	QPSK	Н	148	5	-48.67	-13.00	-35.67

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8

Table 7-127. Ant3 - SISO -Spurious Emissions Table (1GHz - 18GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-48.15	-13.00	-35.15
Mid	50	QPSK	-45.77	-13.00	-32.77
High	50	QPSK	-45.74	-13.00	-32.74

Table 7-128. Ant3 - MIMO -Spurious Emissions Table (1GHz - 18GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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Plot 7-190. Ant3-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
34669.80	Low	50	Н	QPSK	Н	-	-	-31.82	-13.00	-18.82
34545.90	Low	50	V	QPSK	V	-	-	-31.44	-13.00	-18.44
36480.10	Mid	50	Н	QPSK	Н	-	-	-30.19	-13.00	-17.19
36683.50	Mid	50	V	QPSK	V	-	-	-30.88	-13.00	-17.88
36452.20	High	50	Н	QPSK	Н	-	-	-31.00	-13.00	-18.00
36746.50	High	50	V	QPSK	V	-	-	-31.01	-13.00	-18.01

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8

Table 7-129. Ant3 - SISO -Spurious Emissions Table (18GHz – 36.85GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-28.61	-13.00	-15.61
Mid	50	QPSK	-27.51	-13.00	-14.51
High	50	QPSK	-28.00	-13.00	-15.00

Table 7-130. Ant3 - MIMO -Spurious Emissions Table (18GHz – 36.85GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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40.15GHz - 60GHz







Plot 7-192. Ant3-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1.5 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
44082.98	Low	50	Н	QPSK	Н	171	150	-36.95	-13.00	-23.95
44083.18	Low	50	V	QPSK	Н	138	152	-31.52	-13.00	-18.52
44083.16	Mid	50	Н	QPSK	Н	170	150	-38.48	-13.00	-25.48
44083.16	Mid	50	V	QPSK	Н	139	151	-31.50	-13.00	-18.50
44083.14	High	50	Н	QPSK	Н	170	150	-36.49	-13.00	-23.49
44083.11	High	50	V	QPSK	Н	137	152	-33.17	-13.00	-20.17

Table 7-131. Ant3 - SISO - Spurious Emissions Table (40.15GHz - 60GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-30.42	-13.00	-17.42
Mid	50	QPSK	-30.71	-13.00	-17.71
High	50	QPSK	-31.51	-13.00	-18.51

Table 7-132. Ant3 - MIMO -Spurious Emissions Table (40.15GHz - 60GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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Plot 7-194. Ant3-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam - ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
740010.06	Low	50	Н	QPSK	Н	65	327	-49.62	-13.00	-36.62
74009.61	Low	50	V	QPSK	Н	98	336	-53.01	-13.00	-40.01
76950.12	Mid	50	Н	QPSK	Н	72	346	-51.88	-13.00	-38.88
76950.12	Mid	50	V	QPSK	Н	101	335	-51.67	-13.00	-38.67
79894.31	High	50	Н	QPSK	Н	-	-	-53.88	-13.00	-40.88
79929.15	High	50	V	QPSK	Н	-	-	-53.81	-13.00	-40.81

Table 7-133. Ant1 - SISO -Spurious Emissions Table (60GHz - 90GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-47.98	-13.00	-34.98
Mid	50	QPSK	-48.76	-13.00	-35.76
High	50	QPSK	-50.83	-13.00	-37.83

Table 7-134. Ant1 - MIMO - Spurious Emissions Table (60GHz - 90GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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Plot 7-196. Ant3-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
111083.52	Low	50	Н	QPSK	Н	11	348	-45.43	-13.00	-32.43
111083.67	Low	50	V	QPSK	V	326	5	-48.57	-13.00	-35.57
115493.82	Mid	50	Н	QPSK	Н	6	349	-46.66	-13.00	-33.66
115468.23	Mid	50	V	QPSK	V	17	290	-45.67	-13.00	-32.67
119900.88	High	50	Н	QPSK	Н	343	33	-47.94	-13.00	-34.94
119896.35	High	50	V	QPSK	V	300	27	-48.02	-13.00	-35.02

Table 7-135. Ant3 - SISO -Spurious Emissions Table (90GHz - 140GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-43.71	-13.00	-30.71
Mid	50	QPSK	-43.13	-13.00	-30.13
High	50	QPSK	-44.97	-13.00	-31.97

Table 7-136. Ant3 - MIMO -Spurious Emissions Table (90GHz - 140GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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Plot 7-198. Ant3-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
141444.50	Low	50	Н	QPSK	Н	-	-	-32.47	-13.00	-19.47
141476.50	Low	50	V	QPSK	V	-	-	-32.26	-13.00	-19.26
141457.00	Mid	50	Н	QPSK	Н	-	-	-33.13	-13.00	-20.13
141492.00	Mid	50	V	QPSK	V	-	-	-32.68	-13.00	-19.68
141475.50	High	50	Н	QPSK	Н	-	-	-32.54	-13.00	-19.54
141486.50	High	50	V	QPSK	V	-	-	-32.18	-13.00	-19.18

Table 7-137. Ant3 - SISO -Spurious Emissions Table (140GHz - 170GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-29.35	-13.00	-16.35
Mid	50	QPSK	-29.89	-13.00	-16.89
High	50	QPSK	-29.35	-13.00	-16.35

 Table 7-138. Ant3 - MIMO -Spurious Emissions Table (140GHz - 170GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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Plot 7-200. Ant3-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
191024.00	Low	50	Н	QPSK	Н	-	-	-34.81	-13.00	-21.81
171951.00	Low	50	V	QPSK	V	-	-	-35.27	-13.00	-22.27
171993.00	Mid	50	Н	QPSK	Н	-	-	-35.08	-13.00	-22.08
189915.50	Mid	50	V	QPSK	V	-	-	-34.93	-13.00	-21.93
172027.50	High	50	Н	QPSK	Н	-	-	-35.04	-13.00	-22.04
171910.50	High	50	V	QPSK	V	-	-	-35.19	-13.00	-22.19

Table 7-139. Ant3 - SISO -Spurious Emissions Table (170GHz - 200GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-32.02	-13.00	-19.02
Mid	50	QPSK	-31.99	-13.00	-18.99
High	50	QPSK	-32.10	-13.00	-19.10

 Table 7-140. Ant3 - MIMO -Spurious Emissions Table (170GHz - 200GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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30MHz - 1GHz







Plot 7-202. Ant4-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam)

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Plot 7-203. Ant4-n260 Radiated Spurious Plot 1GHz - 18GHz (1CC QPSK Mid Channel H Beam – ENDC)



Plot 7-204. Ant4-n260 Radiated Spurious Plot 1GHz - 18GHz (1CC QPSK Mid Channel V Beam - ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
8407.15	Low	50	Н	QPSK	Н	240	61	-50.39	-13.00	-37.39
8407.15	Low	50	V	QPSK	V	185	334	-44.11	-13.00	-31.11
9109.17	Mid	50	Н	QPSK	Н	203	55	-50.56	-13.00	-37.56
9109.17	Mid	50	V	QPSK	V	142	4	-41.76	-13.00	-28.76
9144.46	High	50	Н	QPSK	Н	154	62	-52.27	-13.00	-39.27
9144.46	High	50	V	QPSK	V	140	358	-43.25	-13.00	-30.25

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8

Table 7-141. Ant4 - SISO -Spurious Emissions Table (1GHz - 18GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]		
Low	50	QPSK	-43.19	-13.00	-30.19		
Mid	50	QPSK	-41.39	-13.00	-28.39		
High	50	QPSK	-42.74	-13.00	-29.74		
Table 7.442 Ante MIMO Spurious Emissions Table (4011- 40011-)							

Table 7-142. Ant4 - MIMO -Spurious Emissions Table (1GHz - 18GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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Plot 7-206. Ant4-n260 Radiated Spurious Plot (1CC QPSK Mid Channel V Beam – ENDC)

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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
36493.50	Low	50	Н	QPSK	Н	-	-	-31.11	-13.00	-18.11
36701.15	Low	50	V	QPSK	V	-	-	-31.13	-13.00	-18.13
36992.50	Mid	50	Н	QPSK	Н	-	-	-31.46	-13.00	-18.46
36468.50	Mid	50	V	QPSK	V	-	-	-31.61	-13.00	-18.61
36715.50	High	50	Н	QPSK	Н	-	-	-30.04	-13.00	-17.04
36459.50	High	50	V	QPSK	V	-	-	-30.70	-13.00	-17.70

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8

Table 7-143. Ant4 - SISO -Spurious Emissions Table (18GHz – 36.85GHz)

Channnel	Bandwidth (MHz)	Modulation	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Low	50	QPSK	-28.11	-13.00	-15.11
Mid	50	QPSK	-28.52	-13.00	-15.52
High	50	QPSK	-27.35	-13.00	-14.35

Table 7-144. Ant4 - MIMO -Spurious Emissions Table (18GHz – 36.85GHz)

<u>Notes</u>

1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

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