

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 151 von 285

Page 151 of 285

Modulation: 802.11ax _ HE 40MHz

Data rate: MCS11

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	98.77	-	-
	5190 (Av)		79.51	-	-
	5150 (Pk)		58.17	74*	-15.83
	5150 (Av)		39.88	54*	-14.12
	10380 (Pk)		51.37	68.23	-16.86
	10380 (Av)		39.53	54	-14.47
	15570 (Pk)		52.41	68.23	-15.82
	15570 (Av)		41.20	54	-12.80
	5190 (Pk)	Horizontal	95.50	-	-
	5190 (Av)		75.92	-	-
	5150 (Pk)		55.33	74*	-18.67
	5150 (Av)		37.35	54*	-16.65
	10380 (Pk)		52.07	68.23	-16.16
	10380 (Av)		39.57	54	-14.43
	15570 (Pk)		53.67	68.23	-14.56
	15570 (Av)		41.23	54	-12.77
5230	5230 (Pk)	Vertical	99.07	-	-
	5230 (Av)		79.93	-	-
	5350 (Pk)		47.19	74*	-26.81
	5350 (Av)		32.33	54*	-21.67
	10460 (Pk)		51.78	68.23	-16.45
	10460 (Av)		39.77	54	-14.23
	15690 (Pk)		53.29	68.23	-14.94
	15690 (Av)		40.96	54	-13.04
	5230 (Pk)	Horizontal	95.08	-	-
	5230 (Av)		75.60	-	-
	5350 (Pk)		43.57	74*	-30.43
	5350 (Av)		30.83	54*	-23.17
	10460 (Pk)		52.60	68.23	-15.63
	10460 (Av)		39.74	54	-14.26
	15690 (Pk)		52.37	68.23	-15.86
	15690 (Av)		40.93	54	-13.07
5270	5270 (Pk)	Vertical	99.42	-	-
	5270 (Av)		80.07	-	-
	5350 (Pk)		46.84	74*	-27.16
	5350 (Av)		32.46	54*	-21.54
	10540 (Pk)		51.53	68.23	-16.70
	10540 (Av)		39.98	54	-14.02
	15810 (Pk)		53.78	68.23	-14.45
	15810 (Av)		40.84	54	-13.16
	5270 (Pk)	Horizontal	94.05	-	-
	5270 (Av)		74.75	-	-
	5350 (Pk)		43.49	74*	-30.51
	5350 (Av)		30.80	54*	-23.20
	10540 (Pk)		52.27	68.23	-15.96
	10540 (Av)		40.07	54	-13.93
	15810 (Pk)		53.30	68.23	-14.93
	15810 (Av)		40.88	54	-13.12

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 152 von 285

Page 152 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5310	5310 (Pk)	Vertical	98.66	-	-
	5310 (Av)		79.03	-	-
	5350 (Pk)		57.14	74*	-16.86
	5350 (Av)		37.90	54*	-16.10
	10620 (Pk)		51.71	68.23	-16.52
	10620 (Av)		39.89	54	-14.11
	15930 (Pk)		53.28	68.23	-14.95
	15930 (Av)		41.34	54	-12.66
	5310 (Pk)	Horizontal	92.40	-	-
	5310 (Av)		72.83	-	-
	5350 (Pk)		50.58	74*	-23.42
	5350 (Av)		33.53	54*	-20.47
	10620 (Pk)		51.29	68.23	-16.94
	10620 (Av)		39.92	54	-14.08
	15930 (Pk)		53.31	68.23	-14.92
	15930 (Av)		41.28	54	-12.72
5510	5510 (Pk)	Vertical	98.02	-	-
	5510 (Av)		78.56	-	-
	5460 (Pk)		54.47	74*	-19.53
	5460 (Av)		35.41	54*	-18.59
	11020 (Pk)		52.17	68.23	-16.06
	11020 (Av)		40.60	54	-13.40
	16530 (Pk)		55.28	68.23	-12.95
	16530 (Av)		43.35	54	-10.65
	5510 (Pk)	Horizontal	92.40	-	-
	5510 (Av)		73.05	-	-
	5460 (Pk)		48.64	74*	-25.36
	5460 (Av)		32.69	54*	-21.31
	11020 (Pk)		52.65	68.23	-15.58
	11020 (Av)		40.62	54	-13.38
	16530 (Pk)		55.35	68.23	-12.88
	16530 (Av)		43.37	54	-10.63
5590	5590 (Pk)	Vertical	98.36	-	-
	5590 (Av)		79.12	-	-
	5460 (Pk)		44.60	74*	-29.40
	5460 (Av)		31.39	54*	-22.61
	11180 (Pk)		52.46	68.23	-15.77
	11180 (Av)		40.25	54	-13.75
	16770 (Pk)		55.59	68.23	-12.64
	16770 (Av)		44.24	54	-9.76
	5590 (Pk)	Horizontal	86.23	-	-
	5590 (Av)		68.47	-	-
	5460 (Pk)		42.56	74*	-31.44
	5460 (Av)		30.23	54*	-23.77
	11180 (Pk)		52.33	68.23	-15.90
	11180 (Av)		40.25	54	-13.75
	16770 (Pk)		56.25	68.23	-11.98
	16770 (Av)		44.23	54	-9.77

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 153 von 285

Page 153 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5670	5670 (Pk)	Vertical	96.67	-	-
	5670 (Av)		78.06	-	-
	5460 (Pk)		43.76	74*	-30.24
	5460 (Av)		30.85	54*	-23.15
	11340 (Pk)		53.18	68.23	-15.05
	11340 (Av)		40.67	54	-13.33
	17010 (Pk)		56.32	68.23	-11.91
	17010 (Av)		44.16	54	-9.84
	5670 (Pk)	Horizontal	90.45	-	-
	5670 (Av)		71.64	-	-
	5460 (Pk)		43.28	74*	-30.72
	5460 (Av)		30.31	54*	-23.69
	11340 (Pk)		53.08	68.23	-15.15
	11340 (Av)		40.70	54	-13.30
	17010 (Pk)		56.98	68.23	-11.25
	17010 (Av)		44.16	54	-9.84
5710	5710 (Pk)	Vertical	96.51	-	-
	5710 (Av)		78.10	-	-
	5460 (Pk)		43.71	74*	-30.29
	5460 (Av)		30.51	54*	-23.49
	11420 (Pk)		52.92	68.23	-15.31
	11420 (Av)		41.29	54	-12.71
	17130 (Pk)		56.73	68.23	-11.50
	17130 (Av)		44.49	54	-9.51
	5710 (Pk)	Horizontal	88.85	-	-
	5710 (Av)		70.28	-	-
	5460 (Pk)		43.07	74*	-30.93
	5460 (Av)		30.20	54*	-23.80
	11420 (Pk)		52.99	68.23	-15.24
	11420 (Av)		41.27	54	-12.73
	17130 (Pk)		55.72	68.23	-12.51
	17130 (Av)		44.48	54	-9.52
5755	5755 (Pk)	Vertical	96.93	-	-
	5755 (Av)		78.06	-	-
	5715(Pk)		58.73	78.20*	-19.47
	5725(Pk)		61.32	78.20*	-16.88
	11510 (Pk)		53.85	68.23	-14.38
	11510 (Av)		42.15	54	-11.85
	17265(Pk)		57.06	68.23	-11.17
	17265(Av)		44.94	54	-9.06
	5755 (Pk)	Horizontal	87.66	-	-
	5755 (Av)		68.78	-	-
	5715(Pk)		51.32	78.20*	-26.88
	5725(Pk)		51.93	78.20*	-26.27
	11510 (Pk)		54.53	68.23	-13.70
	11510 (Av)		42.14	54	-11.86
	17265(Pk)		56.58	68.23	-11.65
	17265(Av)		44.92	54	-9.08

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 154 von 285

Page 154 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	96.77	-	-
	5795 (Av)		77.58	-	-
	5850 (Pk)		48.91	78.20*	-29.29
	5860 (Pk)		48.24	78.20*	-29.96
	11590 (Pk)		53.04	68.23	-15.19
	11590 (Av)		41.42	54	-12.58
	17385 (Pk)		57.14	68.23	-11.09
	17385 (Av)		45.62	54	-8.38
	5795 (Pk)	Horizontal	87.81	-	-
	5795 (Av)		68.81	-	-
	5850 (Pk)		44.21	78.20*	-33.99
	5860 (Pk)		43.90	78.20*	-34.30
	11590 (Pk)		53.04	68.23	-15.19
	11590 (Av)		41.34	54	-12.66
	17385 (Pk)		58.28	68.23	-9.95
	17385 (Pk)		45.61	54	-8.39

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 155 von 285

Page 155 of 285

Modulation: 802.11ac _ VHT 80MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	97.74	-	-
	5210 (Av)		83.68	-	-
	5150 (Pk)		65.30	74*	-8.70
	5150 (Av)		49.41	54*	-4.59
	10420 (Pk)		51.91	68.23	-16.32
	10420 (Av)		39.70	54	-14.30
	15630 (Pk)		52.99	68.23	-15.24
	15630 (Av)		41.44	54	-12.56
	5210 (Pk)	Horizontal	89.46	-	-
	5210 (Av)		76.22	-	-
	5150 (Pk)		57.28	74*	-16.72
	5150 (Av)		41.22	54*	-12.78
	10420 (Pk)		52.45	68.23	-15.78
	10420 (Av)		39.79	54	-14.21
	15630 (Pk)		54.32	68.23	-13.91
	15630 (Av)		41.57	54	-12.43
5290	5290 (Pk)	Vertical	97.53	-	-
	5290 (Av)		83.93	-	-
	5350 (Pk)		64.86	74*	-9.14
	5350 (Av)		47.95	54*	-6.05
	10580 (Pk)		51.95	68.23	-16.28
	10580 (Av)		40.15	54	-13.85
	15870 (Pk)		53.27	68.23	-14.96
	15870 (Av)		41.14	54	-12.86
	5290 (Pk)	Horizontal	86.85	-	-
	5290 (Av)		73.50	-	-
	5350 (Pk)		53.32	74*	-20.68
	5350 (Av)		36.75	54*	-17.25
	10580 (Pk)		52.31	68.23	-15.92
	10580 (Av)		40.13	54	-13.87
	15870 (Pk)		52.65	68.23	-15.58
	15870 (Av)		41.16	54	-12.84
5530	5530 (Pk)	Vertical	95.04	-	-
	5530 (Av)		81.67	-	-
	5460 (Pk)		59.93	74*	-14.07
	5460 (Av)		40.48	54*	-13.52
	11060 (Pk)		52.57	68.23	-15.66
	11060 (Av)		40.77	54	-13.23
	16590 (Pk)		55.29	68.23	-12.94
	16590 (Av)		43.38	54	-10.62
	5530 (Pk)	Horizontal	84.50	-	-
	5530 (Av)		70.75	-	-
	5460 (Pk)		46.40	74*	-27.60
	5460 (Av)		32.92	54*	-21.08
	11060 (Pk)		52.49	s	-15.74
	11060 (Av)		40.85	54	-13.15
	16590 (Pk)		55.02	68.23	-13.21
	16590 (Av)		43.04	54	-10.96

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 156 von 285

Page 156 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5690	5690 (Pk)	Vertical	100.17	-	-
	5690 (Av)		86.42	-	-
	5460 (Pk)		51.90	74*	-22.10
	5460 (Av)		36.96	54*	-17.04
	11380 (Pk)		53.96	68.23	-14.27
	11380 (Av)		41.56	54	-12.44
	17070 (Pk)		55.93	68.23	-12.30
	17070 (Av)		44.29	54	-9.71
	5690 (Pk)	Horizontal	87.57	-	-
	5690 (Av)		74.27	-	-
	5460 (Pk)		44.18	74*	-29.82
	5460 (Av)		31.39	54*	-22.61
	11380 (Pk)		53.73	68.23	-14.50
	11380 (Av)		41.54	54	-12.46
	17070 (Pk)		56.10	68.23	-12.13
	17070 (Av)		44.22	54	-9.78
5775	5775 (Pk)	Vertical	99.73	-	-
	5775 (Av)		86.14	-	-
	11550 (Pk)		53.55	68.23	-14.68
	11550 (Av)		42.43	54	-11.57
	17325 (Pk)		57.93	68.23	-10.30
	17325 (Av)		45.23	54	-8.77
	5775 (Pk)	Horizontal	85.76	-	-
	5775 (Av)		72.05	-	-
	11550 (Pk)		54.06	68.23	-14.17
	11550 (Av)		42.44	54	-11.56
	17325 (Pk)		56.96	68.23	-11.27
	17325 (Av)		45.07	54	-8.93

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 157 von 285

Page 157 of 285

Modulation: 802.11ac _ VHT 80MHz

Data rate: MCS9

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	97.03	-	-
	5210 (Av)		77.09	-	-
	5150 (Pk)		59.96	74*	-14.04
	5150 (Av)		39.51	54*	-14.49
	10420 (Pk)		51.79	68.23	-16.44
	10420 (Av)		39.62	54	-14.38
	15630 (Pk)		53.38	68.23	-14.85
	15630 (Av)		41.44	54	-12.56
	5210 (Pk)	Horizontal	88.95	-	-
	5210 (Av)		69.22	-	-
	5150 (Pk)		52.58	74*	-21.42
	5150 (Av)		34.70	54*	-19.30
	10420 (Pk)		52.12	68.23	-16.11
	10420 (Av)		39.59	54	-14.41
	15630 (Pk)		52.36	68.23	-15.87
	15630 (Av)		41.33	54	-12.67
5290	5290 (Pk)	Vertical	96.01	-	-
	5290 (Av)		75.86	-	-
	5350 (Pk)		58.52	74*	-15.48
	5350 (Av)		38.08	54*	-15.92
	10580 (Pk)		51.58	68.23	-16.65
	10580 (Av)		40.02	54	-13.98
	15870 (Pk)		53.72	68.23	-14.51
	15870 (Av)		41.05	54	-12.95
	5290 (Pk)	Horizontal	87.18	-	-
	5290 (Av)		67.40	-	-
	5350 (Pk)		49.71	74*	-24.29
	5350 (Av)		32.40	54*	-21.60
	10580 (Pk)		51.97	68.23	-16.26
	10580 (Av)		40.04	54	-13.96
	15870 (Pk)		53.05	68.23	-15.18
	15870 (Av)		41.12	54	-12.88
5530	5530 (Pk)	Vertical	94.62	-	-
	5530 (Av)		74.41	-	-
	5460 (Pk)		54.93	74*	-19.07
	5460 (Av)		36.27	54*	-17.73
	11060 (Pk)		52.64	68.23	-15.59
	11060 (Av)		40.75	54	-13.25
	16590 (Pk)		55.31	68.23	-12.92
	16590 (Av)		43.37	54	-10.63
	5530 (Pk)	Horizontal	83.09	-	-
	5530 (Av)		62.95	-	-
	5460 (Pk)		44.91	74*	-29.09
	5460 (Av)		31.12	54*	-22.88
	11060 (Pk)		52.62	68.23	-15.61
	11060 (Av)		40.83	54	-13.17
	16590 (Pk)		55.08	68.23	-13.15
	16590 (Av)		43.40	54	-10.60

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 158 von 285

Page 158 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5690	5690 (Pk)	Vertical	96.87	-	-
	5690 (Av)		76.75	-	-
	5460 (Pk)		47.43	74*	-26.57
	5460 (Av)		31.92	54*	-22.08
	11380 (Pk)		53.21	68.23	-15.02
	11380 (Av)		41.54	54	-12.46
	17070 (Pk)		56.06	68.23	-12.17
	17070 (Av)		44.24	54	-9.76
	5690 (Pk)	Horizontal	84.56	-	-
	5690 (Av)		64.63	-	-
	5460 (Pk)		43.10	74*	-30.90
	5460 (Av)		30.42	54*	-23.58
	11380 (Pk)		52.92	68.23	-15.31
	11380 (Av)		41.47	54	-12.53
	17070 (Pk)		56.45	68.23	-11.78
	17070 (Av)		44.25	54	-9.75
5775	5775 (Pk)	Vertical	96.59	-	-
	5775 (Av)		76.24	-	-
	11550 (Pk)		54.63	68.23	-13.60
	11550 (Av)		42.47	54	-11.53
	17325 (Pk)		57.16	68.23	-11.07
	17325 (Av)		45.26	54	-8.74
	5775 (Pk)	Horizontal	84.39	-	-
	5775 (Av)		63.75	-	-
	11550 (Pk)		53.44	68.23	-14.79
	11550 (Av)		42.41	54	-11.59
	17325 (Pk)		56.89	68.23	-11.34
	17325 (Av)		45.22	54	-8.78

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 159 von 285

Page 159 of 285

Modulation: 802.11ax _ HE 80MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	100.20	-	-
	5210 (Av)		84.09	-	-
	5150 (Pk)		67.32	74*	-6.68
	5150 (Av)		49.21	54*	-4.79
	10420 (Pk)		52.05	68.23	-16.18
	10420 (Av)		39.42	54	-14.58
	15630 (Pk)		53.03	68.23	-15.20
	15630 (Av)		41.17	54	-12.83
	5210 (Pk)	Horizontal	91.67	-	-
	5210 (Av)		76.24	-	-
	5150 (Pk)		58.70	74*	-15.30
	5150 (Av)		41.28	54*	-12.72
	10420 (Pk)		52.05	68.23	-16.18
	10420 (Av)		39.46	54	-14.54
	15630 (Pk)		53.51	68.23	-14.72
	15630 (Av)		41.10	54	-12.90
5290	5290 (Pk)	Vertical	99.69	-	-
	5290 (Av)		82.98	-	-
	5350 (Pk)		66.92	74*	-7.08
	5350 (Av)		47.77	54*	-6.23
	10580 (Pk)		51.56	68.23	-16.67
	10580 (Av)		39.89	54	-14.11
	15870 (Pk)		52.05	68.23	-16.18
	15870 (Av)		40.96	54	-13.04
	5290 (Pk)	Horizontal	88.78	-	-
	5290 (Av)		73.33	-	-
	5350 (Pk)		54.85	74*	-19.15
	5350 (Av)		38.36	54*	-15.64
	10580 (Pk)		50.92	68.23	-17.31
	10580 (Av)		39.86	54	-14.14
	15870 (Pk)		52.25	68.23	-15.98
	15870 (Av)		40.88	54	-13.12
5530	5530 (Pk)	Vertical	97.25	-	-
	5530 (Av)		81.31	-	-
	5460 (Pk)		57.35	74*	-16.65
	5460 (Av)		40.64	54*	-13.36
	11060 (Pk)		52.48	68.23	-15.75
	11060 (Av)		40.73	54	-13.27
	16590 (Pk)		55.45	68.23	-12.78
	16590 (Av)		43.38	54	-10.62
	5530 (Pk)	Horizontal	86.28	-	-
	5530 (Av)		70.17	-	-
	5460 (Pk)		47.73	74*	-26.27
	5460 (Av)		33.16	54*	-20.84
	11060 (Pk)		52.99	68.23	-15.24
	11060 (Av)		40.74	54	-13.26
	16590 (Pk)		55.47	68.23	-12.76
	16590 (Av)		43.45	54	-10.55

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 160 von 285

Page 160 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5690	5690 (Pk)	Vertical	102.61	-	-
	5690 (Av)		86.34	-	-
	5460 (Pk)		53.17	74*	-20.83
	5460 (Av)		38.44	54*	-15.56
	11380 (Pk)		53.36	68.23	-14.87
	11380 (Av)		41.48	54	-12.52
	17070 (Pk)		55.57	68.23	-12.66
	17070 (Av)		44.01	54	-9.99
	5690 (Pk)	Horizontal	90.70	-	-
	5690 (Av)		75.23	-	-
	5460 (Pk)		44.86	74*	-29.14
	5460 (Av)		32.04	54*	-21.96
	11380 (Pk)		53.23	68.23	-15.00
	11380 (Av)		41.36	54	-12.64
	17070 (Pk)		52.27	68.23	-15.96
	17070 (Av)		44.02	54	-9.98
5775	5775 (Pk)	Vertical	102.53	-	-
	5775 (Av)		85.91	-	-
	11550 (Pk)		54.00	68.23	-14.23
	11550 (Av)		42.11	54	-11.89
	17325 (Pk)		57.09	68.23	-11.14
	17325 (Av)		45.38	54	-8.62
	5775 (Pk)	Horizontal	88.18	-	-
	5775 (Av)		72.03	-	-
	11550 (Pk)		53.82	68.23	-14.41
	11550 (Av)		41.76	54	-12.24
	17325 (Pk)		57.17	68.23	-11.06
	17325 (Av)		45.32	54	-8.68

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 161 von 285

Page 161 of 285

Modulation: 802.11ax _ HE 80MHz

Data rate: MCS11

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	94.64	-	-
	5210 (Av)		74.35	-	-
	5150 (Pk)		56.22	74*	-17.78
	5150 (Av)		35.54	54*	-18.46
	10420 (Pk)		53.16	68.23	-15.07
	10420 (Av)		39.48	54	-14.52
	15630 (Pk)		53.05	68.23	-15.18
	15630 (Av)		41.17	54	-12.83
	5210 (Pk)	Horizontal	84.66	-	-
	5210 (Av)		64.93	-	-
	5150 (Pk)		48.64	74*	-25.36
	5150 (Av)		31.50	54*	-22.50
	10420 (Pk)		51.77	68.23	-16.46
	10420 (Av)		39.44	54	-14.56
	15630 (Pk)		53.48	68.23	-14.75
	15630 (Av)		41.11	54	-12.89
5290	5290 (Pk)	Vertical	93.28	-	-
	5290 (Av)		73.09	-	-
	5350 (Pk)		53.31	74*	-20.69
	5350 (Av)		33.84	54*	-20.16
	10580 (Pk)		51.87	68.23	-16.36
	10580 (Av)		39.93	54	-14.07
	15870 (Pk)		52.74	68.23	-15.49
	15870 (Av)		41.04	54	-12.96
	5290 (Pk)	Horizontal	84.20	-	-
	5290 (Av)		64.24	-	-
	5350 (Pk)		44.41	74*	-29.59
	5350 (Av)		30.42	54*	-23.58
	10580 (Pk)		52.29	68.23	-15.94
	10580 (Av)		39.94	54	-14.06
	15870 (Pk)		52.59	68.23	-15.64
	15870 (Av)		40.96	54	-13.04
5530	5530 (Pk)	Vertical	93.07	-	-
	5530 (Av)		73.11	-	-
	5460 (Pk)		51.60	74*	-22.40
	5460 (Av)		33.72	54*	-20.28
	11060 (Pk)		53.59	68.23	-14.64
	11060 (Av)		40.76	54	-13.24
	16590 (Pk)		55.60	68.23	-12.63
	16590 (Av)		44.18	54	-9.82
	5530 (Pk)	Horizontal	82.36	-	-
	5530 (Av)		62.76	-	-
	5460 (Pk)		43.66	74*	-30.34
	5460 (Av)		30.69	54*	-23.31
	11060 (Pk)		53.21	68.23	-15.02
	11060 (Av)		40.69	54	-13.31
	16590 (Pk)		56.42	68.23	-11.81
	16590 (Av)		43.44	54	-10.56

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 162 von 285

Page 162 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5690	5690 (Pk)	Vertical	93.54	-	-
	5690 (Av)		74.14	-	-
	5460 (Pk)		44.50	74*	-29.50
	5460 (Av)		31.40	54*	-22.60
	11380 (Pk)		53.56	68.23	-14.67
	11380 (Av)		41.38	54	-12.62
	17070 (Pk)		55.82	68.23	-12.41
	17070 (Av)		44.07	54	-9.93
	5690 (Pk)	Horizontal	81.62	-	-
	5690 (Av)		61.81	-	-
	5460 (Pk)		43.06	74*	-30.94
	5460 (Av)		30.43	54*	-23.57
	11380 (Pk)		53.20	68.23	-15.03
	11380 (Av)		41.30	54	-12.70
	17070 (Pk)		56.46	68.23	-11.77
	17070 (Av)		44.00	54	-10.00
5755	5755 (Pk)	Vertical	94.14	-	-
	5755 (Av)		74.01	-	-
	11510 (Pk)		54.02	68.23	-14.21
	11510 (Av)		41.69	54	-12.31
	17265 (Pk)		57.26	68.23	-10.97
	17265 (Av)		45.34	54	-8.66
	5755 (Pk)	Horizontal	82.05	-	-
	5755 (Av)		61.90	-	-
	11510 (Pk)		54.60	68.23	-13.63
	11510 (Av)		41.75	54	-12.25
	17265 (Pk)		57.47	68.23	-10.76
	17265 (Av)		45.33	54	-8.67

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av : Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 163 von 285

Page 163 of 285

Antenna Type: 1001932PT (Flex/PCB) Port1 & Port2 MIMO Antenna Results

Modulation: 802.11a

Data rate: 6Mbps

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	100.24	-	-
	5180 (Av)		89.72	-	-
	5150 (Pk)		58.11	74*	-15.89
	5150 (Av)		33.82	54*	-20.18
	10360 (Pk)		51.02	68.23	-17.21
	10360 (Av)		39.34	54	-14.66
	15540 (Pk)		52.76	68.23	-15.47
	15540 (Av)		41.26	54	-12.74
	5180 (Pk)	Horizontal	108.94	-	-
	5180 (Av)		100.14	-	-
	5150 (Pk)		64.65	74*	-9.35
	5150 (Av)		42.08	54*	-11.92
	10360 (Pk)		52.37	68.23	-15.86
	10360 (Av)		39.33	54	-14.67
	15540 (Pk)		53.73	68.23	-14.50
	15540 (Av)		41.29	54	-12.71
5240	5240 (Pk)	Vertical	107.82	-	-
	5240 (Av)		96.81	-	-
	5350 (Pk)		48.32	74*	-25.68
	5350 (Av)		35.55	54*	-18.45
	10480 (Pk)		51.17	68.23	-17.06
	10480 (Av)		39.88	54	-14.12
	15720 (Pk)		53.61	68.23	-14.62
	15720 (Av)		41.20	54	-12.80
	5240 (Pk)	Horizontal	115.82	-	-
	5240 (Av)		106.32	-	-
	5350 (Pk)		56.39	74*	-17.61
	5350 (Av)		42.35	54*	-11.65
	10480 (Pk)		51.82	68.23	-16.41
	10480 (Av)		39.94	54	-14.06
	15720 (Pk)		52.58	68.23	-15.65
	15720 (Av)		41.23	54	-12.77
5260	5260 (Pk)	Vertical	107.10	-	-
	5260 (Av)		96.23	-	-
	5350 (Pk)		51.09	74*	-22.91
	5350 (Av)		37.66	54*	-16.34
	10520 (Pk)		51.17	68.23	-17.06
	10520 (Av)		39.98	54	-14.02
	15780 (Pk)		52.88	68.23	-15.35
	15780 (Av)		41.02	54	-12.98
	5260 (Pk)	Horizontal	113.61	-	-
	5260 (Av)		104.90	-	-
	5350 (Pk)		57.27	74*	-16.73
	5350 (Av)		43.10	54*	-10.90
	10520 (Pk)		51.74	68.23	-16.49
	10520 (Av)		39.99	54	-14.01
	15780 (Pk)		53.17	68.23	-15.06
	15780 (Av)		41.02	54	-12.98

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 164 von 285

Page 164 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	101.77	-	-
	5320 (Av)		91.52	-	-
	5350 (Pk)		56.20	74*	-17.80
	5350 (Av)		35.19	54*	-18.81
	10640 (Pk)		51.05	68.23	-17.18
	10640 (Av)		40.01	54	-13.99
	15960 (Pk)		53.11	68.23	-15.12
	15960 (Av)		41.67	54	-12.33
	5320 (Pk)	Horizontal	108.66	-	-
	5320 (Av)		99.77	-	-
	5350 (Pk)		62.76	74*	-11.24
	5350 (Av)		40.52	54*	-13.48
	10640 (Pk)		52.17	68.23	-16.06
	10640 (Av)		40.08	54	-13.92
	15960 (Pk)		53.26	68.23	-14.97
	15960 (Av)		41.70	54	-12.30
5500	5500 (Pk)	Vertical	103.00	-	-
	5500 (Av)		92.75	-	-
	5460 (Pk)		57.46	74*	-16.54
	5460 (Av)		35.53	54*	-18.47
	11000 (Pk)		51.75	68.23	-16.48
	11000 (Av)		40.70	54	-13.30
	16500 (Pk)		54.63	68.23	-13.60
	16500 (Av)		43.39	54	-10.61
	5500 (Pk)	Horizontal	101.08	-	-
	5500 (Av)		97.87	-	-
	5460 (Pk)		56.31	74*	-17.69
	5460 (Av)		38.39	54*	-15.61
	11000 (Pk)		52.26	68.23	-15.97
	11000 (Av)		40.70	54	-13.30
	16500 (Pk)		54.50	68.23	-13.73
	16500 (Av)		43.37	54	-10.63
5700	5700 (Pk)	Vertical	102.41	-	-
	5700 (Av)		92.57	-	-
	5460 (Pk)		42.33	74*	-31.67
	5460 (Av)		30.04	54*	-23.96
	11400 (Pk)		53.11	68.23	-15.12
	11400 (Av)		41.60	54	-12.40
	17100 (Pk)		55.07	68.23	-13.16
	17100 (Av)		44.28	54	-9.72
	5700 (Pk)	Horizontal	108.11	-	-
	5700 (Av)		99.43	-	-
	5460 (Pk)		43.26	74*	-30.74
	5460 (Av)		30.53	54*	-23.47
	11400 (Pk)		53.36	68.23	-14.87
	11400 (Av)		41.54	54	-12.46
	17100 (Pk)		56.11	68.23	-12.12
	17100 (Av)		44.30	54	-9.70

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 165 von 285

Page 165 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	109.48	-	-
	5720 (Av)		99.05	-	-
	5460 (Pk)		42.70	74*	-31.30
	5460 (Av)		30.20	54*	-23.80
	11440 (Pk)		52.71	68.23	-15.52
	11440 (Av)		41.56	54	-12.44
	17160 (Pk)		55.58	68.23	-12.65
	17160 (Av)		44.43	54	-9.57
	5720 (Pk)	Horizontal	113.23	-	-
	5720 (Av)		104.31	-	-
	5460 (Pk)		43.06	74*	-30.94
	5460 (Av)		30.64	54*	-23.36
	11440 (Pk)		53.32	68.23	-14.91
	11440 (Av)		41.57	54	-12.43
	17160 (Pk)		55.91	68.23	-12.32
	17160 (Av)		44.60	54	-9.40
5745	5715(Pk)	Vertical	63.36	78.20*	-14.84
	5725(Pk)		69.10	78.20*	-9.10
	5745 (Pk)		102.83	-	-
	5745 (Av)		93.43	-	-
	11490 (Pk)		54.51	68.23	-13.72
	11490 (Av)		42.35	54	-11.65
	17235 (Pk)		56.50	68.23	-11.73
	17235 (Av)		45.33	54	-8.67
	5715(Pk)	Horizontal	68.77	78.20*	-9.43
	5725(Pk)		75.23	78.20*	-2.97
	5745 (Pk)		108.77	-	-
	5745 (Av)		99.55	-	-
	11490 (Pk)		54.51	68.23	-13.72
	11490 (Av)		42.40	54	-11.60
	17235 (Pk)		57.17	68.23	-11.06
	17235 (Av)		45.31	54	-8.69
5825	5825 (Pk)	Vertical	104.33	-	-
	5825 (Av)		94.88	-	-
	5850 (Pk)		62.72	78.20*	-15.48
	5860 (Pk)		60.09	78.20*	-18.11
	11650 (Pk)		54.26	68.23	-13.97
	11650 (Av)		41.69	54	-12.31
	17475 (Pk)		58.52	68.23	-9.71
	17475 (Av)		47.20	54	-6.80
	5825 (Pk)	Horizontal	110.62	-	-
	5825 (Av)		100.81	-	-
	5850 (Pk)		71.16	78.20*	-7.04
	5860 (Pk)		65.34	78.20*	-12.86
	11650 (Pk)		53.17	68.23	-15.06
	11650 (Av)		41.66	54	-12.34
	17475 (Pk)		58.70	68.23	-9.53
	17475 (Av)		47.18	54	-6.82

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 166 von 285

Page 166 of 285

Modulation: 802.11a

Data rate: 54Mbps

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	100.87	-	-
	5180 (Av)		86.05	-	-
	5150 (Pk)		57.96	74*	-16.04
	5150 (Av)		34.70	54*	-19.30
	10360 (Pk)		51.52	68.23	-16.71
	10360 (Av)		39.42	54	-14.58
	15540 (Pk)		53.50	68.23	-14.73
	15540 (Av)		41.49	54	-12.51
	5180 (Pk)	Horizontal	110.73	*	-
	5180 (Av)		96.24	*	-
	5150 (Pk)		67.12	74*	-6.88
	5150 (Av)		44.25	54*	-9.75
	10360 (Pk)		51.66	68.23	-16.57
	10360 (Av)		39.64	54	-14.36
	15540 (Pk)		53.40	68.23	-14.83
	15540 (Av)		41.53	54	-12.47
5240	5240 (Pk)	Vertical	106.99	-	-
	5240 (Av)		91.26	-	-
	5350 (Pk)		46.08	74*	-27.92
	5350 (Av)		33.04	54*	-20.96
	10480 (Pk)		52.23	68.23	-16.00
	10480 (Av)		40.38	54	-13.62
	15720 (Pk)		53.06	68.23	-15.17
	15720 (Av)		41.37	54	-12.63
	5240 (Pk)	Horizontal	114.00	-	-
	5240 (Av)		99.44	-	-
	5350 (Pk)		52.44	74*	-21.56
	5350 (Av)		37.41	54*	-16.59
	10480 (Pk)		52.71	68.23	-15.52
	10480 (Av)		40.12	54	-13.88
	15720 (Pk)		53.71	68.23	-14.52
	15720 (Av)		41.29	54	-12.71
5260	5260 (Pk)	Vertical	102.48	-	-
	5260 (Av)		87.38	-	-
	5350 (Pk)		44.29	74*	-29.71
	5350 (Av)		31.29	54*	-22.71
	10520 (Pk)		52.87	68.23	-15.36
	10520 (Av)		40.14	54	-13.86
	15780 (Pk)		53.31	68.23	-14.92
	15780 (Av)		41.08	54	-12.92
	5260 (Pk)	Horizontal	114.81	-	-
	5260 (Av)		99.57	-	-
	5350 (Pk)		54.13	74*	-19.87
	5350 (Av)		37.75	54*	-16.25
	10520 (Pk)		52.35	68.23	-15.88
	10520 (Av)		40.15	54	-13.85
	15780 (Pk)		53.07	68.23	-15.16
	15780 (Av)		41.07	54	-12.93

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 167 von 285

Page 167 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	100.18	-	-
	5320 (Av)		84.87	-	-
	5350 (Pk)		58.73	74*	-15.27
	5350 (Av)		33.14	54*	-20.86
	10640 (Pk)		52.34	68.23	-15.89
	10640 (Av)		40.16	54	-13.84
	15960 (Pk)		53.95	68.23	-14.28
	15960 (Av)		41.81	54	-12.19
	5320 (Pk)	Horizontal	111.22	-	-
	5320 (Av)		95.79	-	-
	5350 (Pk)		70.23	74*	-3.77
	5350 (Av)		41.98	54*	-12.02
	10640 (Pk)		52.47	68.23	-15.76
	10640 (Av)		40.17	54	-13.83
	15960 (Pk)		53.53	68.23	-14.70
	15960 (Av)		41.76	54	-12.24
5500	5500 (Pk)	Vertical	101.96	-	-
	5500 (Av)		86.11	-	-
	5460 (Pk)		53.42	74*	-20.58
	5460 (Av)		32.88	54*	-21.12
	11000 (Pk)		53.03	68.23	-15.20
	11000 (Av)		40.78	54	-13.22
	16500 (Pk)		56.31	68.23	-11.92
	16500 (Av)		43.50	54	-10.50
	5500 (Pk)	Horizontal	110.12	-	-
	5500 (Av)		94.51	-	-
	5460 (Pk)		64.73	74*	-9.27
	5460 (Av)		39.92	54*	-14.08
	11000 (Pk)		52.57	68.23	-15.66
	11000 (Av)		40.80	54	-13.20
	16500 (Pk)		55.98	68.23	-12.25
	16500 (Av)		43.50	54	-10.50
5700	5700 (Pk)	Vertical	102.65	-	-
	5700 (Av)		87.15	-	-
	5460 (Pk)		43.49	74*	-30.51
	5460 (Av)		29.88	54*	-24.12
	11400 (Pk)		53.75	68.23	-14.48
	11400 (Av)		41.67	54	-12.33
	17100 (Pk)		56.47	68.23	-11.76
	17100 (Av)		44.47	54	-9.53
	5700 (Pk)	Horizontal	107.55	-	-
	5700 (Av)		92.07	-	-
	5460 (Pk)		43.15	74*	-30.85
	5460 (Av)		30.60	54*	-23.40
	11400 (Pk)		54.35	68.23	-13.88
	11400 (Av)		41.70	54	-12.30
	17100 (Pk)		56.34	68.23	-11.89
	17100 (Av)		44.43	54	-9.57

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 168 von 285

Page 168 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	106.63	-	-
	5720 (Av)		91.01	-	-
	5460 (Pk)		42.58	74*	-31.42
	5460 (Av)		29.94	54*	-24.06
	11440 (Pk)		53.87	68.23	-14.36
	11440 (Av)		41.82	54	-12.18
	17160 (Pk)		57.35	68.23	-10.88
	17160 (Av)		44.64	54	-9.36
	5720 (Pk)	Horizontal	112.29	-	-
	5720 (Av)		97.13	-	-
	5460 (Pk)		43.53	74*	-30.47
	5460 (Av)		30.76	54*	-23.24
	11440 (Pk)		54.38	68.23	-13.85
	11440 (Av)		42.00	54	-12.00
	17160 (Pk)		57.12	68.23	-11.11
	17160 (Av)		44.62	54	-9.38
5745	5715(Pk)	Vertical	60.31	78.2*	-17.89
	5725(Pk)		67.12	78.2*	-11.08
	5745 (Pk)		103.87	-	-
	5745 (Av)		88.49	-	-
	11490 (Pk)		54.66	68.23	-13.57
	11490 (Av)		42.57	54	-11.43
	17235 (Pk)		57.32	68.23	-10.91
	17235 (Av)		45.46	54	-8.54
	5715(Pk)	Horizontal	69.21	78.2*	-8.99
	5725(Pk)		74.56	78.2*	-3.64
	5745 (Pk)		110.44	-	-
	5745 (Av)		93.38	-	-
	11490 (Pk)		54.91	68.23	-13.32
	11490 (Av)		42.71	54	-11.29
	17235 (Pk)		57.56	68.23	-10.67
	17235 (Av)		45.41	54	-8.59
5825	5825 (Pk)	Vertical	104.48	-	-
	5825 (Av)		88.84	-	-
	5850 (Pk)		66.76	78.2*	-11.44
	5860 (Pk)		62.40	78.2*	-15.80
	11650 (Pk)		54.64	68.23	-13.59
	11650 (Av)		42.43	54	-11.57
	17475 (Pk)		59.53	68.23	-8.70
	17475 (Av)		47.34	54	-6.66
	5825 (Pk)	Horizontal	108.74	-	-
	5825 (Av)		93.56	-	-
	5850 (Pk)		66.17	78.2	-12.03
	5860 (Pk)		61.95	78.2	-16.25
	11650 (Pk)		54.51	68.23	-13.72
	11650 (Av)		42.30	54	-11.70
	17475 (Pk)		59.51	68.23	-8.72
	17475 (Av)		47.32	54	-6.68

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 169 von 285

Page 169 of 285

Modulation: 802.11n _ HT 20MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	98.47	-	-
	5180 (Av)		88.31	-	-
	5150 (Pk)		61.97	74*	-12.03
	5150 (Av)		38.18	54*	-15.82
	10360 (Pk)		52.17	68.23	-16.06
	10360 (Av)		39.41	54	-14.59
	15540 (Pk)		53.88	68.23	-14.35
	15540 (Av)		41.42	54	-12.58
	5180 (Pk)	Horizontal	109.61	-	-
	5180 (Av)		99.77	-	-
	5150 (Pk)		72.75	74*	-1.25
	5150 (Av)		47.30	54*	-6.70
	10360 (Pk)		51.24	68.23	-16.99
	10360 (Av)		39.44	54	-14.56
	15540 (Pk)		53.21	68.23	-15.02
	15540 (Av)		41.45	54	-12.55
5240	5240 (Pk)	Vertical	102.98	-	-
	5240 (Av)		93.16	-	-
	5350 (Pk)		45.62	74*	-28.38
	5350 (Av)		33.10	54*	-20.90
	10480 (Pk)		52.07	68.23	-16.16
	10480 (Av)		40.19	54	-13.81
	15720 (Pk)		53.81	68.23	-14.42
	15720 (Av)		41.27	54	-12.73
	5240 (Pk)	Horizontal	114.27	-	-
	5240 (Av)		104.90	-	-
	5350 (Pk)		54.66	74*	-19.34
	5350 (Av)		41.17	54*	-12.83
	10480 (Pk)		52.17	68.23	-16.06
	10480 (Av)		40.21	54	-13.79
	15720 (Pk)		53.22	68.23	-15.01
	15720 (Av)		41.26	54	-12.74
5260	5260 (Pk)	Vertical	103.40	-	-
	5260 (Av)		92.24	-	-
	5350 (Pk)		50.66	74*	-23.34
	5350 (Av)		35.88	54*	-18.12
	10520 (Pk)		52.74	68.23	-15.49
	10520 (Av)		40.49	54	-13.51
	15780 (Pk)		53.34	68.23	-14.89
	15780 (Av)		41.10	54	-12.90
	5260 (Pk)	Horizontal	110.60	-	-
	5260 (Av)		100.85	-	-
	5350 (Pk)		55.99	74*	-18.01
	5350 (Av)		41.46	54*	-12.54
	10520 (Pk)		52.36	68.23	-15.87
	10520 (Av)		40.28	54	-13.72
	15780 (Pk)		52.87	68.23	-15.36
	15780 (Av)		41.04	54	-12.96

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 170 von 285

Page 170 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	99.33	-	-
	5320 (Av)		88.45	-	-
	5350 (Pk)		59.48	74*	-14.52
	5350 (Av)		33.28	54*	-20.72
	10640 (Pk)		52.04	68.23	-16.19
	10640 (Av)		40.12	54	-13.88
	15960 (Pk)		53.66	68.23	-14.57
	15960 (Av)		41.75	54	-12.25
	5320 (Pk)	Horizontal	105.50	-	-
	5320 (Av)		95.81	-	-
	5350 (Pk)		62.65	74*	-11.35
	5350 (Av)		38.14	54*	-15.86
	10640 (Pk)		52.83	68.23	-15.40
	10640 (Av)		40.16	54	-13.84
	15960 (Pk)		54.41	68.23	-13.82
	15960 (Av)		41.75	54	-12.25
5500	5500 (Pk)	Vertical	99.13	-	-
	5500 (Av)		88.71	-	-
	5460 (Pk)		53.92	74*	-20.08
	5460 (Av)		33.37	54*	-20.63
	11000 (Pk)		53.09	68.23	-15.14
	11000 (Av)		40.75	54	-13.25
	16500 (Pk)		55.87	68.23	-12.36
	16500 (Av)		43.46	54	-10.54
	5500 (Pk)	Horizontal	105.87	-	-
	5500 (Av)		97.34	-	-
	5460 (Pk)		61.60	74*	-12.40
	5460 (Av)		40.00	54*	-14.00
	11000 (Pk)		52.73	68.23	-15.50
	11000 (Av)		40.75	54	-13.25
	16500 (Pk)		55.14	68.23	-13.09
	16500 (Av)		43.47	54	-10.53
5700	5700 (Pk)	Vertical	98.35	-	-
	5700 (Av)		88.55	-	-
	5460 (Pk)		42.86	74*	-31.14
	5460 (Av)		30.07	54*	-23.93
	11400 (Pk)		53.84	68.23	-14.39
	11400 (Av)		41.65	54	-12.35
	17100 (Pk)		56.53	68.23	-11.70
	17100 (Av)		44.42	54	-9.58
	5700 (Pk)	Horizontal	104.04	-	-
	5700 (Av)		94.09	-	-
	5460 (Pk)		43.05	74*	-30.95
	5460 (Av)		30.46	54*	-23.54
	11400 (Pk)		54.14	68.23	-14.09
	11400 (Av)		41.69	54	-12.31
	17100 (Pk)		56.06	68.23	-12.17
	17100 (Av)		44.41	54	-9.59

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av : Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 171 von 285

Page 171 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	105.28	-	-
	5720 (Av)		94.77	-	-
	5460 (Pk)		43.07	74*	-30.93
	5460 (Av)		30.13	54*	-23.87
	11440 (Pk)		54.16	68.23	-14.07
	11440 (Av)		41.80	54	-12.20
	17160 (Pk)		57.00	68.23	-11.23
	17160 (Av)		44.63	54	-9.37
	5720 (Pk)	Horizontal	109.91	-	-
	5720 (Av)		101.30	-	-
	5460 (Pk)		43.40	74*	-30.60
	5460 (Av)		30.88	54*	-23.12
	11440 (Pk)		53.86	68.23	-14.37
	11440 (Av)		42.24	54	-11.76
	17160 (Pk)		56.98	68.23	-11.25
	17160 (Av)		44.67	54	-9.33
5745	5715(Pk)	Vertical	66.74	-	-11.46
	5725(Pk)		70.05	-	-8.15
	5745 (Pk)		103.48	74*	-
	5745 (Av)		93.93	54*	-
	11490 (Pk)		54.55	68.23	-13.68
	11490 (Av)		42.66	54	-11.34
	17235 (Pk)		57.28	68.23	-10.95
	17235 (Av)		45.47	54	-8.53
	5715(Pk)	Horizontal	71.26	-	-6.94
	5725(Pk)		75.34	-	-2.86
	5745 (Pk)		107.39	74*	-
	5745 (Av)		97.51	54*	-
	11490 (Pk)		55.40	68.23	-12.83
	11490 (Av)		43.06	54	-10.94
	17235 (Pk)		57.51	68.23	-10.72
	17235 (Av)		45.44	54	-8.56
5825	5825 (Pk)	Vertical	102.13	-	-
	5825 (Av)		92.16	-	-
	5850 (Pk)		61.86	74*	-16.34
	5860 (Pk)		59.00	54*	-19.20
	11650 (Pk)		54.16	68.23	-14.07
	11650 (Av)		42.05	54	-11.95
	17475 (Pk)		58.64	68.23	-9.59
	17475 (Av)		47.34	54	-6.66
	5825 (Pk)	Horizontal	103.61	-	-
	5825 (Av)		93.61	-	-
	5850 (Pk)		66.04	74*	-12.16
	5860 (Pk)		61.36	54*	-16.84
	11650 (Pk)		54.40	68.23	-13.83
	11650 (Av)		42.42	54	-11.58
	17475 (Pk)		58.65	68.23	-9.58
	17475 (Av)		47.32	54	-6.68

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 172 von 285

Page 172 of 285

Modulation: 802.11n _ HT 20MHz

Data rate: MCS7

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	97.89	-	-
	5180 (Av)		82.79	-	-
	5150 (Pk)		55.05	74*	-18.95
	5150 (Av)		33.23	54*	-20.77
	10360 (Pk)		51.74	68.23	-16.49
	10360 (Av)		39.43	54	-14.57
	15540 (Pk)		53.15	68.23	-15.08
	15540 (Av)		41.43	54	-12.57
	5180 (Pk)	Horizontal	108.11	-	-
	5180 (Av)		93.18	-	-
	5150 (Pk)		64.33	74*	-9.67
	5150 (Av)		41.25	54*	-12.75
	10360 (Pk)		51.74	68.23	-16.49
	10360 (Av)		39.40	54	-14.60
	15540 (Pk)		53.81	68.23	-14.42
	15540 (Av)		41.40	54	-12.60
5240	5240 (Pk)	Vertical	100.82	-	-
	5240 (Av)		86.19	-	-
	5350 (Pk)		46.38	74*	-27.62
	5350 (Av)		31.03	54*	-22.97
	10480 (Pk)		52.28	68.23	-15.95
	10480 (Av)		40.21	54	-13.79
	15720 (Pk)		53.14	68.23	-15.09
	15720 (Av)		41.29	54	-12.71
	5240 (Pk)	Horizontal	111.71	-	-
	5240 (Av)		96.70	-	-
	5350 (Pk)		51.26	74*	-22.74
	5350 (Av)		36.47	54*	-17.53
	10480 (Pk)		52.05	68.23	-16.18
	10480 (Av)		40.32	54	-13.68
	15720 (Pk)		54.29	68.23	-13.94
	15720 (Av)		41.26	54	-12.74
5260	5260 (Pk)	Vertical	100.04	-	-
	5260 (Av)		85.46	-	-
	5350 (Pk)		44.92	74*	-29.08
	5350 (Av)		31.33	54*	-22.67
	10520 (Pk)		53.10	68.23	-15.13
	10520 (Av)		40.53	54	-13.47
	15780 (Pk)		53.20	68.23	-15.03
	15780 (Av)		41.04	54	-12.96
	5260 (Pk)	Horizontal	111.48	-	-
	5260 (Av)		96.21	-	-
	5350 (Pk)		54.82	74*	-19.18
	5350 (Av)		37.12	54*	-16.88
	10520 (Pk)		52.69	68.23	-15.54
	10520 (Av)		40.43	54	-13.57
	15780 (Pk)		53.81	68.23	-14.42
	15780 (Av)		41.09	54	-12.91

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 173 von 285

Page 173 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	104.92	-	-
	5320 (Av)		89.71	-	-
	5350 (Pk)		58.48	74*	-15.52
	5350 (Av)		35.83	54*	-18.17
	10640 (Pk)		52.86	68.23	-15.37
	10640 (Av)		40.33	54	-13.67
	15960 (Pk)		54.09	68.23	-14.14
	15960 (Av)		41.76	54	-12.24
	5320 (Pk)	Horizontal	106.01	-	-
	5320 (Av)		91.19	-	-
	5350 (Pk)		62.80	74*	-11.20
	5350 (Av)		37.10	54*	-16.90
	10640 (Pk)		52.17	68.23	-16.06
	10640 (Av)		40.19	54	-13.81
	15960 (Pk)		54.11	68.23	-14.12
	15960 (Av)		41.76	54	-12.24
5500	5500 (Pk)	Vertical	99.28	-	-
	5500 (Av)		84.32	-	-
	5460 (Pk)		50.97	74*	-23.03
	5460 (Av)		32.80	54*	-21.20
	11000 (Pk)		53.20	68.23	-15.03
	11000 (Av)		40.85	54	-13.15
	16500 (Pk)		55.97	68.23	-12.26
	16500 (Av)		43.52	54	-10.48
	5500 (Pk)	Horizontal	106.11	-	-
	5500 (Av)		91.46	-	-
	5460 (Pk)		60.27	74*	-13.73
	5460 (Av)		39.46	54*	-14.54
	11000 (Pk)		52.82	68.23	-15.41
	11000 (Av)		40.77	54	-13.23
	16500 (Pk)		55.47	68.23	-12.76
	16500 (Av)		43.53	54	-10.47
5700	5700 (Pk)	Vertical	97.60	-	-
	5700 (Av)		82.39	-	-
	5460 (Pk)		42.79	74*	-31.21
	5460 (Av)		30.15	54*	-23.85
	11400 (Pk)		55.02	68.23	-13.21
	11400 (Av)		42.65	54	-11.35
	17100 (Pk)		57.65	68.23	-10.58
	17100 (Av)		45.45	54	-8.55
	5700 (Pk)	Horizontal	101.09	-	-
	5700 (Av)		86.09	-	-
	5460 (Pk)		43.06	74*	-30.94
	5460 (Av)		30.29	54*	-23.71
	11400 (Pk)		53.86	68.23	-14.37
	11400 (Av)		41.74	54	-12.26
	17100 (Pk)		57.09	68.23	-11.14
	17100 (Av)		44.47	54	-9.53

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 174 von 285

Page 174 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	103.75	-	-
	5720 (Av)		88.37	-	-
	5460 (Pk)		43.03	74*	-30.97
	5460 (Av)		30.12	54*	-23.88
	11440 (Pk)		53.79	68.23	-14.44
	11440 (Av)		41.76	54	-12.24
	17160 (Pk)		56.87	68.23	-11.36
	17160 (Av)		44.61	54	-9.39
	5720 (Pk)	Horizontal	109.12	-	-
	5720 (Av)		94.16	-	-
	5460 (Pk)		42.98	74*	-31.02
	5460 (Av)		30.59	54*	-23.41
	11440 (Pk)		54.17	68.23	-14.06
	11440 (Av)		42.15	54	-11.85
	17160 (Pk)		56.22	68.23	-12.01
	17160 (Av)		44.65	54	-9.35
5745	5715(Pk)	Vertical	62.51	78.20*	-15.69
	5725(Pk)		67.03	78.20*	-11.17
	5745 (Pk)		102.63	-	-
	5745 (Av)		86.88	-	-
	11490 (Pk)		55.02	68.23	-13.21
	11490 (Av)		42.65	54	-11.35
	17235 (Pk)		57.65	68.23	-10.58
	17235 (Av)		45.45	54	-8.55
	5715(Pk)	Horizontal	67.75	78.20*	-10.45
	5725(Pk)		72.24	78.20*	-5.96
	5745 (Pk)		108.06	-	-
	5745 (Av)		92.66	-	-
	11490 (Pk)		54.71	68.23	-13.52
	11490 (Av)		42.75	54	-11.25
	17235 (Pk)		57.41	68.23	-10.82
	17235 (Av)		45.46	54	-8.54
5825	5825 (Pk)	Vertical	101.26	-	-
	5825 (Av)		86.09	-	-
	5850 (Pk)		60.44	78.20*	-17.76
	5860 (Pk)		54.87	78.20*	-23.33
	11650 (Pk)		53.67	68.23	-14.56
	11650 (Av)		42.04	54	-11.96
	17475 (Pk)		59.34	68.23	-8.89
	17475 (Av)		47.46	54	-6.54
	5825 (Pk)	Horizontal	108.52	-	-
	5825 (Av)		93.49	-	-
	5850 (Pk)		67.58	78.20*	-10.62
	5860 (Pk)		63.50	78.20*	-14.70
	11650 (Pk)		54.11	68.23	-14.12
	11650 (Av)		42.13	54	-11.87
	17475 (Pk)		60.73	68.23	-7.50
	17475 (Av)		47.47	54	-6.53

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 175 von 285

Page 175 of 285

Modulation: 802.11ac _ VHT 20MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	97.13	-	-
	5180 (Av)		86.79	-	-
	5150 (Pk)		57.89	74*	-16.11
	5150 (Av)		32.53	54*	-21.47
	10360 (Pk)		51.23	68.23	-17.00
	10360 (Av)		39.61	54	-14.39
	15540 (Pk)		53.59	68.23	-14.64
	15540 (Av)		41.55	54	-12.45
	5180 (Pk)	Horizontal	107.45	-	-
	5180 (Av)		98.18	-	-
	5150 (Pk)		66.07	74*	-7.93
	5150 (Av)		41.23	54*	-12.77
	10360 (Pk)		52.18	68.23	-16.05
	10360 (Av)		39.58	54	-14.42
	15540 (Pk)		53.67	68.23	-14.56
	15540 (Av)		41.61	54	-12.39
5240	5240 (Pk)	Vertical	103.41	-	-
	5240 (Av)		93.20	-	-
	5350 (Pk)		46.20	74*	-27.80
	5350 (Av)		33.73	54*	-20.27
	10480 (Pk)		52.54	68.23	-15.69
	10480 (Av)		40.60	54	-13.40
	15720 (Pk)		54.26	68.23	-13.97
	15720 (Av)		41.39	54	-12.61
	5240 (Pk)	Horizontal	113.11	-	-
	5240 (Av)		103.67	-	-
	5350 (Pk)		51.97	74*	-22.03
	5350 (Av)		38.81	54*	-15.19
	10480 (Pk)		53.39	68.23	-14.84
	10480 (Av)		43.65	54	-10.35
	15720 (Pk)		53.32	68.23	-14.91
	15720 (Av)		41.40	54	-12.60
5260	5260 (Pk)	Vertical	104.57	-	-
	5260 (Av)		94.68	-	-
	5350 (Pk)		50.65	74*	-23.35
	5350 (Av)		36.42	54*	-17.58
	10520 (Pk)		53.27	68.23	-14.96
	10520 (Av)		41.16	54	-12.84
	15780 (Pk)		53.19	68.23	-15.04
	15780 (Av)		41.10	54	-12.90
	5260 (Pk)	Horizontal	113.27	-	-
	5260 (Av)		103.08	-	-
	5350 (Pk)		57.92	74*	-16.08
	5350 (Av)		42.33	54*	-11.67
	10520 (Pk)		52.63	68.23	-15.60
	10520 (Av)		40.92	54	-13.08
	15780 (Pk)		53.67	68.23	-14.56
	15780 (Av)		41.16	54	-12.84

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 176 von 285

Page 176 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	97.78	-	-
	5320 (Av)		87.75	-	-
	5350 (Pk)		60.63	74*	-13.37
	5350 (Av)		33.18	54*	-20.82
	10640 (Pk)		52.30	68.23	-15.93
	10640 (Av)		40.21	54	-13.79
	15960 (Pk)		53.33	68.23	-14.90
	15960 (Av)		41.89	54	-12.11
	5320 (Pk)	Horizontal	107.11	-	-
	5320 (Av)		97.99	-	-
	5350 (Pk)		69.16	74*	-4.84
	5350 (Av)		40.22	54*	-13.78
	10640 (Pk)		53.13	68.23	-15.10
	10640 (Av)		40.27	54	-13.73
	15960 (Pk)		54.83	68.23	-13.40
	15960 (Av)		41.86	54	-12.14
5500	5500 (Pk)	Vertical	99.81	-	-
	5500 (Av)		90.10	-	-
	5460 (Pk)		59.76	74*	-14.24
	5460 (Av)		34.73	54*	-19.27
	11000 (Pk)		53.08	68.23	-15.15
	11000 (Av)		40.79	54	-13.21
	16500 (Pk)		56.21	68.23	-12.02
	16500 (Av)		43.52	54	-10.48
	5500 (Pk)	Horizontal	104.22	-	-
	5500 (Av)		94.34	-	-
	5460 (Pk)		63.28	74*	-10.72
	5460 (Av)		37.24	54*	-16.76
	11000 (Pk)		52.70	68.23	-15.53
	11000 (Av)		40.81	54	-13.19
	16500 (Pk)		55.31	68.23	-12.92
	16500 (Av)		43.54	54	-10.46
5700	5700 (Pk)	Vertical	98.92	-	-
	5700 (Av)		88.07	-	-
	5460 (Pk)		43.07	74*	-30.93
	5460 (Av)		30.19	54*	-23.81
	11400 (Pk)		53.40	68.23	-14.83
	11400 (Av)		41.70	54	-12.30
	17100 (Pk)		56.42	68.23	-11.81
	17100 (Av)		44.47	54	-9.53
	5700 (Pk)	Horizontal	105.14	-	-
	5700 (Av)		95.45	-	-
	5460 (Pk)		43.12	74*	-30.88
	5460 (Av)		30.71	54*	-23.29
	11400 (Pk)		55.07	68.23	-13.16
	11400 (Av)		42.18	54	-11.82
	17100 (Pk)		56.83	68.23	-11.40
	17100 (Av)		44.51	54	-9.49

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av : Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 177 von 285

Page 177 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	107.07	-	-
	5720 (Av)		97.08	-	-
	5460 (Pk)		42.80	74*	-31.20
	5460 (Av)		30.32	54*	-23.68
	11440 (Pk)		54.55	68.23	-13.68
	11440 (Av)		42.46	54	-11.54
	17160 (Pk)		56.75	68.23	-11.48
	17160 (Av)		44.74	54	-9.26
	5720 (Pk)	Horizontal	112.13	-	-
	5720 (Av)		102.80	-	-
	5460 (Pk)		43.80	74*	-30.20
	5460 (Av)		31.26	54*	-22.74
	11440 (Pk)		64.28	68.23	-3.95
	11440 (Av)		47.99	54	-6.01
	17160 (Pk)		58.21	68.23	-10.02
	17160 (Av)		44.73	54	-9.27
5745	5715(Pk)	Vertical	64.63	78.20*	-13.57
	5725(Pk)		69.52	78.20*	-8.68
	5745 (Pk)		101.26	-	-
	5745 (Av)		90.20	-	-
	11490 (Pk)		54.90	68.23	-13.33
	11490 (Av)		42.63	54	-11.37
	17235 (Pk)		57.28	68.23	-10.95
	17235 (Av)		45.47	54	-8.53
	5715(Pk)	Horizontal	66.35	78.20*	-11.85
	5725(Pk)		70.24	78.20*	-7.96
	5745 (Pk)		102.83	-	-
	5745 (Av)		93.12	-	-
	11490 (Pk)		57.85	68.23	-10.38
	11490 (Av)		44.00	54	-10.00
	17235 (Pk)		57.99	68.23	-10.24
	17235 (Av)		45.47	54	-8.53
5825	5825 (Pk)	Vertical	107.05	-	-
	5825 (Av)		96.19	-	-
	5850 (Pk)		72.80	78.20*	-5.40
	5860 (Pk)		65.72	78.20*	-12.48
	11650 (Pk)		55.95	68.23	-12.28
	11650 (Av)		42.19	54	-11.81
	17475 (Pk)		59.44	68.23	-8.79
	17475 (Av)		47.32	54	-6.68
	5825 (Pk)	Horizontal	108.34	-	-
	5825 (Av)		98.17	-	-
	5850 (Pk)		75.39	78.20*	-2.81
	5860 (Pk)		67.77	78.20*	-10.43
	11650 (Pk)		60.48	68.23	-7.75
	11650 (Av)		46.27	54	-7.73
	17475 (Pk)		59.38	68.23	-8.85
	17475 (Av)		47.30	54	-6.70

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 178 von 285

Page 178 of 285

Modulation: 802.11ac _ VHT 20MHz

Data rate: MCS9

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	100.41	-	-
	5180 (Av)		84.39	-	-
	5150 (Pk)		58.84	74*	-15.16
	5150 (Av)		34.11	54*	-19.89
	10360 (Pk)		50.94	68.23	-17.29
	10360 (Av)		39.34	54	-14.66
	15540 (Pk)		53.45	68.23	-14.78
	15540 (Av)		41.40	54	-12.60
	5180 (Pk)	Horizontal	108.94	-	-
	5180 (Av)		93.09	-	-
	5150 (Pk)		64.93	74*	-9.07
	5150 (Av)		41.68	54*	-12.32
	10360 (Pk)		51.07	68.23	-17.16
	10360 (Av)		39.40	54	-14.60
	15540 (Pk)		53.73	68.23	-14.50
	15540 (Av)		41.44	54	-12.56
5240	5240 (Pk)	Vertical	102.03	-	-
	5240 (Av)		86.33	-	-
	5350 (Pk)		43.04	74*	-30.96
	5350 (Av)		31.05	54*	-22.95
	10480 (Pk)		52.04	68.23	-16.19
	10480 (Av)		39.97	54	-14.03
	15720 (Pk)		52.82	68.23	-15.41
	15720 (Av)		41.21	54	-12.79
	5240 (Pk)	Horizontal	111.05	-	-
	5240 (Av)		94.61	-	-
	5350 (Pk)		48.96	74*	-25.04
	5350 (Av)		35.54	54*	-18.46
	10480 (Pk)		51.92	68.23	-16.31
	10480 (Av)		40.08	54	-13.92
	15720 (Pk)		53.48	68.23	-14.75
	15720 (Av)		41.24	54	-12.76
5260	5260 (Pk)	Vertical	99.48	-	-
	5260 (Av)		83.22	-	-
	5350 (Pk)		44.48	74*	-29.52
	5350 (Av)		30.82	54*	-23.18
	10520 (Pk)		53.09	68.23	-15.14
	10520 (Av)		40.19	54	-13.81
	15780 (Pk)		53.04	68.23	-15.19
	15780 (Av)		41.03	54	-12.97
	5260 (Pk)	Horizontal	110.19	-	-
	5260 (Av)		93.04	-	-
	5350 (Pk)		50.84	74*	-23.16
	5350 (Av)		36.01	54*	-17.99
	10520 (Pk)		52.54	68.23	-15.69
	10520 (Av)		40.11	54	-13.89
	15780 (Pk)		52.73	68.23	-15.50
	15780 (Av)		41.07	54	-12.93

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 179 von 285

Page 179 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	97.81	-	-
	5320 (Av)		82.41	-	-
	5350 (Pk)		55.10	74*	-18.90
	5350 (Av)		32.36	54*	-21.64
	10640 (Pk)		51.97	68.23	-16.26
	10640 (Av)		40.19	54	-13.81
	15960 (Pk)		54.24	68.23	-13.99
	15960 (Av)		41.81	54	-12.19
	5320 (Pk)	Horizontal	107.03	-	-
	5320 (Av)		90.49	-	-
	5350 (Pk)		65.48	74*	-8.52
	5350 (Av)		36.67	54*	-17.33
	10640 (Pk)		53.00	68.23	-15.23
	10640 (Av)		40.15	54	-13.85
	15960 (Pk)		54.27	68.23	-13.96
	15960 (Av)		41.83	54	-12.17
5500	5500 (Pk)	Vertical	97.55	-	-
	5500 (Av)		82.33	-	-
	5460 (Pk)		44.41	74*	-29.59
	5460 (Av)		32.31	54*	-21.69
	11000 (Pk)		53.09	68.23	-15.14
	11000 (Av)		40.71	54	-13.29
	16500 (Pk)		55.59	68.23	-12.64
	16500 (Av)		43.52	54	-10.48
	5500 (Pk)	Horizontal	105.13	-	-
	5500 (Av)		89.04	-	-
	5460 (Pk)		51.59	74*	-22.41
	5460 (Av)		36.29	54*	-17.71
	11000 (Pk)		52.94	68.23	-15.29
	11000 (Av)		40.72	54	-13.28
	16500 (Pk)		55.54	68.23	-12.69
	16500 (Av)		43.50	54	-10.50
5700	5700 (Pk)	Vertical	97.05	-	-
	5700 (Av)		81.47	-	-
	5460 (Pk)		42.57	74*	-31.43
	5460 (Av)		29.97	54*	-24.03
	11400 (Pk)		53.98	68.23	-14.25
	11400 (Av)		41.67	54	-12.33
	17100 (Pk)		56.22	68.23	-12.01
	17100 (Av)		44.41	54	-9.59
	5700 (Pk)	Horizontal	103.62	-	-
	5700 (Av)		87.22	-	-
	5460 (Pk)		42.38	74*	-31.62
	5460 (Av)		30.25	54*	-23.75
	11400 (Pk)		53.76	68.23	-14.47
	11400 (Av)		41.86	54	-12.14
	17100 (Pk)		56.72	68.23	-11.51
	17100 (Av)		44.43	54	-9.57

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 180 von 285

Page 180 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	102.36	-	-
	5720 (Av)		86.19	-	-
	5460 (Pk)		43.26	74*	-30.74
	5460 (Av)		30.00	54*	-24.00
	11440 (Pk)		53.87	68.23	-14.36
	11440 (Av)		41.67	54	-12.33
	17160 (Pk)		56.42	68.23	-11.81
	17160 (Av)		44.70	54	-9.30
	5720 (Pk)	Horizontal	104.69	-	-
	5720 (Av)		88.40	-	-
	5460 (Pk)		42.83	74*	-31.17
	5460 (Av)		30.23	54*	-23.77
	11440 (Pk)		56.16	68.23	-12.07
	11440 (Av)		42.42	54	-11.58
	17160 (Pk)		56.65	68.23	-11.58
	17160 (Av)		44.65	54	-9.35
5745	5715(Pk)	Vertical	62.65	78.20*	-15.55
	5725(Pk)		69.52	78.20*	-8.68
	5745 (Pk)		102.34	-	-
	5745 (Av)		86.49	-	-
	11490 (Pk)		55.36	68.23	-12.87
	11490 (Av)		42.52	54	-11.48
	17235 (Pk)		57.78	68.23	-10.45
	17235 (Av)		45.48	54	-8.52
	5715(Pk)	Horizontal	66.70	78.20*	-11.50
	5725(Pk)		71.47	78.20*	-6.73
	5745 (Pk)		105.78	-	-
	5745 (Av)		89.89	-	-
	11490 (Pk)		57.24	68.23	-10.99
	11490 (Av)		44.00	54	-10.00
	17235 (Pk)		58.12	68.23	-10.11
	17235 (Av)		45.46	54	-8.54
5825	5825 (Pk)	Vertical	102.25	-	-
	5825 (Av)		85.95	-	-
	5850 (Pk)		63.33	78.20*	-14.87
	5860 (Pk)		56.34	78.20*	-21.86
	11650 (Pk)		55.72	68.23	-12.51
	11650 (Av)		42.55	54	-11.45
	17475 (Pk)		59.44	68.23	-8.79
	17475 (Av)		47.29	54	-6.71
	5825 (Pk)	Horizontal	108.77	-	-
	5825 (Av)		93.19	-	-
	5850 (Pk)		68.61	78.20*	-9.59
	5860 (Pk)		63.18	78.20*	-15.02
	11650 (Pk)		60.48	68.23	-7.75
	11650 (Av)		45.68	54	-8.32
	17475 (Pk)		59.92	68.23	-8.31
	17475 (Av)		47.29	54	-6.71

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 181 von 285

Page 181 of 285

Modulation: 802.11ax_ HE 20MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	100.86	-	-
	5180 (Av)		87.89	-	-
	5150 (Pk)		56.95	74*	-17.05
	5150 (Av)		34.09	54*	-19.91
	10360 (Pk)		51.25	68.23	-16.98
	10360 (Av)		39.37	54	-14.63
	15540 (Pk)		53.65	68.23	-14.58
	15540 (Av)		41.39	54	-12.61
	5180 (Pk)	Horizontal	111.44	-	-
	5180 (Av)		99.24	-	-
	5150 (Pk)		67.93	74*	-6.07
	5150 (Av)		43.20	54*	-10.80
	10360 (Pk)		51.28	68.23	-16.95
	10360 (Av)		39.41	54	-14.59
	15540 (Pk)		53.11	68.23	-15.12
	15540 (Av)		41.43	54	-12.57
5240	5240 (Pk)	Vertical	106.56	-	-
	5240 (Av)		93.09	-	-
	5350 (Pk)		54.45	74*	-19.55
	5350 (Av)		40.63	54*	-13.37
	10480 (Pk)		51.87	68.23	-16.36
	10480 (Av)		40.33	54	-13.67
	15720 (Pk)		53.42	68.23	-14.81
	15720 (Av)		41.28	54	-12.72
	5240 (Pk)	Horizontal	117.71	-	-
	5240 (Av)		104.87	-	-
	5350 (Pk)		62.71	74*	-11.29
	5350 (Av)		49.13	54*	-4.87
	10480 (Pk)		51.76	68.23	-16.47
	10480 (Av)		39.49	54	-14.51
	15720 (Pk)		53.65	68.23	-14.58
	15720 (Av)		41.23	54	-12.77
5260	5260 (Pk)	Vertical	106.97	-	-
	5260 (Av)		93.30	-	-
	5350 (Pk)		55.76	74*	-18.24
	5350 (Av)		40.19	54*	-13.81
	10520 (Pk)		52.83	68.23	-15.40
	10520 (Av)		41.46	54	-12.54
	15780 (Pk)		53.16	68.23	-15.07
	15780 (Av)		41.04	54	-12.96
	5260 (Pk)	Horizontal	116.46	-	-
	5260 (Av)		102.84	-	-
	5350 (Pk)		63.01	74*	-10.99
	5350 (Av)		47.40	54*	-6.60
	10520 (Pk)		52.79	68.23	-15.44
	10520 (Av)		40.50	54	-13.50
	15780 (Pk)		53.18	68.23	-15.05
	15780 (Av)		41.01	54	-12.99

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 182 von 285

Page 182 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	102.13	-	-
	5320 (Av)		88.55	-	-
	5350 (Pk)		61.14	74*	-12.86
	5350 (Av)		33.91	54*	-20.09
	10640 (Pk)		52.33	68.23	-15.90
	10640 (Av)		40.17	54	-13.83
	15960 (Pk)		54.18	68.23	-14.05
	15960 (Av)		41.72	54	-12.28
	5320 (Pk)	Horizontal	110.72	-	-
	5320 (Av)		97.27	-	-
	5350 (Pk)		67.45	74*	-6.55
	5350 (Av)		40.17	54*	-13.83
	10640 (Pk)		52.66	68.23	-15.57
	10640 (Av)		40.23	54	-13.77
	15960 (Pk)		53.56	68.23	-14.67
	15960 (Av)		41.78	54	-12.22
5500	5500 (Pk)	Vertical	102.51	-	-
	5500 (Av)		89.09	-	-
	5460 (Pk)		54.24	74*	-19.76
	5460 (Av)		33.41	54*	-20.59
	11000 (Pk)		52.64	68.23	-15.59
	11000 (Av)		40.76	54	-13.24
	16500 (Pk)		55.28	68.23	-12.95
	16500 (Av)		43.48	54	-10.52
	5500 (Pk)	Horizontal	110.00	-	-
	5500 (Av)		97.33	-	-
	5460 (Pk)		64.22	74*	-9.78
	5460 (Av)		40.14	54*	-13.86
	11000 (Pk)		52.58	68.23	-15.65
	11000 (Av)		40.80	54	-13.20
	16500 (Pk)		55.26	68.23	-12.97
	16500 (Av)		43.51	54	-10.49
5700	5700 (Pk)	Vertical	100.66	-	-
	5700 (Av)		87.15	-	-
	5460 (Pk)		43.53	74*	-30.47
	5460 (Av)		30.00	54*	-24.00
	11400 (Pk)		53.69	68.23	-14.54
	11400 (Av)		41.68	54	-12.32
	17100 (Pk)		56.27	68.23	-11.96
	17100 (Av)		44.41	54	-9.59
	5700 (Pk)	Horizontal	105.67	-	-
	5700 (Av)		92.29	-	-
	5460 (Pk)		42.59	74*	-31.41
	5460 (Av)		30.38	54*	-23.62
	11400 (Pk)		53.90	68.23	-14.33
	11400 (Av)		42.15	54	-11.85
	17100 (Pk)		56.54	68.23	-11.69
	17100 (Av)		44.44	54	-9.56

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av : Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 183 von 285

Page 183 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	106.59	-	-
	5720 (Av)		93.49	-	-
	5460 (Pk)		42.66	74*	-31.34
	5460 (Av)		30.12	54*	-23.88
	11440 (Pk)		55.10	68.23	-13.13
	11440 (Av)		42.19	54	-11.81
	17160 (Pk)		56.42	68.23	-11.81
	17160 (Av)		44.70	54	-9.30
	5720 (Pk)	Horizontal	112.71	-	-
	5720 (Av)		99.37	-	-
	5460 (Pk)		43.26	74*	-30.74
	5460 (Av)		31.10	54*	-22.90
	11440 (Pk)		63.93	68.23	-4.30
	11440 (Av)		48.52	54	-5.48
	17160 (Pk)		56.65	68.23	-11.58
	17160 (Av)		44.65	54	-9.35
5745	5715(Pk)	Vertical	56.54	78.20*	-21.66
	5725(Pk)		60.70	78.20*	-17.50
	5745 (Pk)		101.57	-	-
	5745 (Av)		88.14	-	-
	11490 (Pk)		55.02	68.23	-13.21
	11490 (Av)		42.59	54	-11.41
	17235 (Pk)		57.06	68.23	-11.17
	17235 (Av)		45.45	54	-8.55
	5715(Pk)	Horizontal	61.84	78.20*	-16.36
	5725(Pk)		68.89	78.20*	-9.31
	5745 (Pk)		106.39	-	-
	5745 (Av)		92.97	-	-
	11490 (Pk)		58.89	68.23	-9.34
	11490 (Av)		45.12	54	-8.88
	17235 (Pk)		57.01	68.23	-11.22
	17235 (Av)		45.44	54	-8.56
5825	5825 (Pk)	Vertical	103.31	-	-
	5825 (Av)		89.97	-	-
	5850 (Pk)		63.23	78.20*	-14.97
	5860 (Pk)		57.55	78.20*	-20.65
	11650 (Pk)		55.41	68.23	-12.82
	11650 (Av)		42.45	54	-11.55
	17475 (Pk)		59.62	68.23	-8.61
	17475 (Av)		47.38	54	-6.62
	5825 (Pk)	Horizontal	109.98	-	-
	5825 (Av)		96.45	-	-
	5850 (Pk)		68.98	78.20*	-9.22
	5860 (Pk)		64.02	78.20*	-14.18
	11650 (Pk)		61.36	68.23	-6.87
	11650 (Av)		46.74	54	-7.26
	17475 (Pk)		59.96	68.23	-8.27
	17475 (Av)		47.27	54	-6.73

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 184 von 285

Page 184 of 285

Modulation: 802.11ax _ HE 20MHz

Data rate: MCS11

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	99.72	-	-
	5180 (Av)		81.90	-	-
	5150 (Pk)		53.68	74*	-20.32
	5150 (Av)		33.53	54*	-20.47
	10360 (Pk)		50.97	68.23	-17.26
	10360 (Av)		39.34	54	-14.66
	15540 (Pk)		53.48	68.23	-14.75
	15540 (Av)		41.37	54	-12.63
	5180 (Pk)	Horizontal	109.00	-	-
	5180 (Av)		90.20	-	-
	5150 (Pk)		64.85	74*	-9.15
	5150 (Av)		40.41	54*	-13.59
	10360 (Pk)		51.09	68.23	-17.14
	10360 (Av)		39.38	54	-14.62
	15540 (Pk)		53.04	68.23	-15.19
	15540 (Av)		41.37	54	-12.63
5240	5240 (Pk)	Vertical	99.53	-	-
	5240 (Av)		81.80	-	-
	5350 (Pk)		42.64	74*	-31.36
	5350 (Av)		30.47	54*	-23.53
	10480 (Pk)		51.93	68.23	-16.30
	10480 (Av)		39.95	54	-14.05
	15720 (Pk)		53.01	68.23	-15.22
	15720 (Av)		41.27	54	-12.73
	5240 (Pk)	Horizontal	108.23	-	-
	5240 (Av)		89.74	-	-
	5350 (Pk)		48.21	74*	-25.79
	5350 (Av)		33.29	54*	-20.71
	10480 (Pk)		52.04	68.23	-16.19
	10480 (Av)		39.97	54	-14.03
	15720 (Pk)		53.48	68.23	-14.75
	15720 (Av)		41.30	54	-12.70
5260	5260 (Pk)	Vertical	97.81	-	-
	5260 (Av)		78.79	-	-
	5350 (Pk)		42.94	74*	-31.06
	5350 (Av)		30.12	54*	-23.88
	10520 (Pk)		52.58	68.23	-15.65
	10520 (Av)		40.07	54	-13.93
	15780 (Pk)		52.61	68.23	-15.62
	15780 (Av)		41.06	54	-12.94
	5260 (Pk)	Horizontal	108.30	-	-
	5260 (Av)		89.74	-	-
	5350 (Pk)		48.84	74*	-25.16
	5350 (Av)		33.86	54*	-20.14
	10520 (Pk)		52.24	68.23	-15.99
	10520 (Av)		39.94	54	-14.06
	15780 (Pk)		53.25	68.23	-14.98
	15780 (Av)		40.91	54	-13.09

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 185 von 285

Page 185 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	99.52	-	-
	5320 (Av)		81.47	-	-
	5350 (Pk)		48.75	74*	-25.25
	5350 (Av)		31.60	54*	-22.40
	10640 (Pk)		51.72	68.23	-16.51
	10640 (Av)		39.94	54	-14.06
	15960 (Pk)		53.46	68.23	-14.77
	15960 (Av)		41.66	54	-12.34
	5320 (Pk)	Horizontal	107.65	-	-
	5320 (Av)		89.04	-	-
	5350 (Pk)		56.77	74*	-17.23
	5350 (Av)		35.91	54*	-18.09
	10640 (Pk)		51.50	68.23	-16.73
	10640 (Av)		40.05	54	-13.95
	15960 (Pk)		53.92	68.23	-14.31
	15960 (Av)		41.72	54	-12.28
5500	5500 (Pk)	Vertical	100.07	-	-
	5500 (Av)		82.25	-	-
	5460 (Pk)		45.62	74*	-28.38
	5460 (Av)		32.44	54*	-21.56
	11000 (Pk)		53.48	68.23	-14.75
	11000 (Av)		40.61	54	-13.39
	16500 (Pk)		55.85	68.23	-12.38
	16500 (Av)		43.33	54	-10.67
	5500 (Pk)	Horizontal	104.41	-	-
	5500 (Av)		85.90	-	-
	5460 (Pk)		52.28	74*	-21.72
	5460 (Av)		35.45	54*	-18.55
	11000 (Pk)		53.31	68.23	-14.92
	11000 (Av)		40.56	54	-13.44
	16500 (Pk)		56.01	68.23	-12.22
	16500 (Av)		43.29	54	-10.71
5700	5700 (Pk)	Vertical	98.17	-	-
	5700 (Av)		80.32	-	-
	5460 (Pk)		43.00	74*	-31.00
	5460 (Av)		29.92	54*	-24.08
	11400 (Pk)		53.90	68.23	-14.33
	11400 (Av)		41.45	54	-12.55
	17100 (Pk)		56.37	68.23	-11.86
	17100 (Av)		44.17	54	-9.83
	5700 (Pk)	Horizontal	105.66	-	-
	5700 (Av)		87.90	-	-
	5460 (Pk)		43.23	74*	-30.77
	5460 (Av)		30.25	54*	-23.75
	11400 (Pk)		53.60	68.23	-14.63
	11400 (Av)		41.53	54	-12.47
	17100 (Pk)		56.18	68.23	-12.05
	17100 (Av)		44.20	54	-9.80

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 186 von 285

Page 186 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	98.35	-	-
	5720 (Av)		80.11	-	-
	5460 (Pk)		43.00	74*	-31.00
	5460 (Av)		29.87	54*	-24.13
	11440 (Pk)		52.64	68.23	-15.59
	11440 (Av)		41.35	54	-12.65
	17160 (Pk)		56.95	68.23	-11.28
	17160 (Av)		44.25	54	-9.75
	5720 (Pk)	Horizontal	105.95	-	-
	5720 (Av)		87.71	-	-
	5460 (Pk)		42.76	74*	-31.24
	5460 (Av)		30.15	54*	-23.85
	11440 (Pk)		53.44	68.23	-14.79
	11440 (Av)		41.39	54	-12.61
	17160 (Pk)		56.20	68.23	-12.03
	17160 (Av)		44.28	54	-9.72
5745	5715(Pk)	Vertical	48.90	78.20*	-29.30
	5725(Pk)		57.48	78.20*	-20.72
	5745 (Pk)		98.79	-	-
	5745 (Av)		80.22	-	-
	11490 (Pk)		55.46	68.23	-12.77
	11490 (Av)		42.23	54	-11.77
	17235 (Pk)		57.89	68.23	-10.34
	17235 (Av)		45.09	54	-8.91
	5715(Pk)	Horizontal	57.65	78.20*	-20.55
	5725(Pk)		64.30	78.20*	-13.90
	5745 (Pk)		104.30	-	-
	5745 (Av)		85.65	-	-
	11490 (Pk)		54.58	68.23	-13.65
	11490 (Av)		42.24	54	-11.76
	17235 (Pk)		57.21	68.23	-11.02
	17235 (Av)		45.12	54	-8.88
5825	5825 (Pk)	Vertical	100.00	-	-
	5825 (Av)		81.15	-	-
	5850 (Pk)		54.25	78.20*	-23.95
	5860 (Pk)		46.91	78.20*	-31.29
	11650 (Pk)		53.42	68.23	-14.81
	11650 (Av)		41.41	54	-12.59
	17475 (Pk)		58.97	68.23	-9.26
	17475 (Av)		46.94	54	-7.06
	5825 (Pk)	Horizontal	106.25	-	-
	5825 (Av)		87.16	-	-
	5850 (Pk)		61.92	78.20*	-16.28
	5860 (Pk)		35.18	78.20*	-43.02
	11650 (Pk)		53.67	68.23	-14.56
	11650 (Av)		41.61	54	-12.39
	17475 (Pk)		59.36	68.23	-8.87
	17475 (Av)		46.93	54	-7.07

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 187 von 285

Page 187 of 285

Modulation: 802.11n _ HT 40MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	95.29	-	-
	5190 (Av)		84.30	-	-
	5150 (Pk)		58.78	74*	-15.22
	5150 (Av)		38.20	54*	-15.80
	10380 (Pk)		52.17	68.23	-16.06
	10380 (Av)		39.64	54	-14.36
	15570 (Pk)		52.74	68.23	-15.49
	15570 (Av)		40.69	54	-13.31
	5190 (Pk)	Horizontal	104.52	-	-
	5190 (Av)		93.56	-	-
	5150 (Pk)		70.59	74*	-3.41
	5150 (Av)		49.60	54*	-4.40
	10380 (Pk)		51.65	68.23	-16.58
	10380 (Av)		39.64	54	-14.36
	15570 (Pk)		51.98	68.23	-16.25
	15570 (Av)		40.55	54	-13.45
5230	5230 (Pk)	Vertical	97.90	-	-
	5230 (Av)		86.63	-	-
	5350 (Pk)		49.95	74*	-24.05
	5350 (Av)		32.79	54*	-21.21
	10460 (Pk)		51.33	68.23	-16.90
	10460 (Av)		39.67	54	-14.33
	15690 (Pk)		52.73	68.23	-15.50
	15690 (Av)		40.23	54	-13.77
	5230 (Pk)	Horizontal	107.49	-	-
	5230 (Av)		96.37	-	-
	5350 (Pk)		57.05	74*	-16.95
	5350 (Av)		38.38	54*	-15.62
	10460 (Pk)		51.58	68.23	-16.65
	10460 (Av)		39.77	54	-14.23
	15690 (Pk)		52.84	68.23	-15.39
	15690 (Av)		40.27	54	-13.73
5270	5270 (Pk)	Vertical	99.65	-	-
	5270 (Av)		88.63	-	-
	5350 (Pk)		58.10	74*	-15.90
	5350 (Av)		40.49	54*	-13.51
	10540 (Pk)		51.73	68.23	-16.50
	10540 (Av)		39.87	54	-14.13
	15810 (Pk)		52.73	68.23	-15.50
	15810 (Av)		40.08	54	-13.92
	5270 (Pk)	Horizontal	109.33	-	-
	5270 (Av)		98.72	-	-
	5350 (Pk)		66.65	74*	-7.35
	5350 (Av)		48.04	54*	-5.96
	10540 (Pk)		51.85	68.23	-16.38
	10540 (Av)		39.91	54	-14.09
	15810 (Pk)		51.46	68.23	-16.77
	15810 (Av)		40.02	54	-13.98

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 188 von 285

Page 188 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5310	5310 (Pk)	Vertical	97.13	-	-
	5310 (Av)		86.48	-	-
	5350 (Pk)		57.99	74*	-16.01
	5350 (Av)		40.09	54*	-13.91
	10620 (Pk)		51.93	68.23	-16.30
	10620 (Av)		39.64	54	-14.36
	15930 (Pk)		53.16	68.23	-15.07
	15930 (Av)		40.66	54	-13.34
	5310 (Pk)	Horizontal	106.34	-	-
	5310 (Av)		95.01	-	-
	5350 (Pk)		69.37	74*	-4.63
	5350 (Av)		49.75	54*	-4.25
	10620 (Pk)		51.83	68.23	-16.40
	10620 (Av)		36.69	54	-17.31
	15930 (Pk)		52.88	68.23	-15.35
	15930 (Av)		40.63	54	-13.37
5510	5510 (Pk)	Vertical	94.21	-	-
	5510 (Av)		83.57	-	-
	5460 (Pk)		49.90	74*	-24.10
	5460 (Av)		33.58	54*	-20.42
	11020 (Pk)		52.21	68.23	-16.02
	11020 (Av)		40.52	54	-13.48
	16530 (Pk)		54.25	68.23	-13.98
	16530 (Av)		42.73	54	-11.27
	5510 (Pk)	Horizontal	100.27	-	-
	5510 (Av)		89.46	-	-
	5460 (Pk)		56.14	74*	-17.86
	5460 (Av)		38.51	54*	-15.49
	11020 (Pk)		53.12	68.23	-15.11
	11020 (Av)		40.46	54	-13.54
	16530 (Pk)		54.44	68.23	-13.79
	16530 (Av)		42.77	54	-11.23
5590	5590 (Pk)	Vertical	103.07	-	-
	5590 (Av)		91.71	-	-
	5460 (Pk)		53.02	74*	-20.98
	5460 (Av)		38.46	54*	-15.54
	11180 (Pk)		52.32	68.23	-15.91
	11180 (Av)		40.10	54	-13.90
	16770 (Pk)		56.49	68.23	-11.74
	16770 (Av)		43.59	54	-10.41
	5590 (Pk)	Horizontal	107.96	-	-
	5590 (Av)		96.92	-	-
	5460 (Pk)		60.49	74*	-13.51
	5460 (Av)		44.42	54*	-9.58
	11180 (Pk)		51.87	68.23	-16.36
	11180 (Av)		40.13	54	-13.87
	16770 (Pk)		54.99	68.23	-13.24
	16770 (Av)		43.53	54	-10.47

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 189 von 285

Page 189 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5670	5670 (Pk)	Vertical	96.89	-	-
	5670 (Av)		86.11	-	-
	5460 (Pk)		42.90	74*	-31.10
	5460 (Av)		30.40	54*	-23.60
	11340 (Pk)		53.22	68.23	-15.01
	11340 (Av)		40.54	54	-13.46
	17010 (Pk)		55.52	68.23	-12.71
	17010 (Av)		43.57	54	-10.43
	5670 (Pk)	Horizontal	102.56	-	-
	5670 (Av)		91.57	-	-
	5460 (Pk)		44.56	74*	-29.44
	5460 (Av)		31.54	54*	-22.46
	11340 (Pk)		52.75	68.23	-15.48
	11340 (Av)		40.47	54	-13.53
	17010 (Pk)		56.51	68.23	-11.72
	17010 (Av)		43.60	54	-10.40
5710	5710 (Pk)	Vertical	102.91	-	-
	5710 (Av)		91.68	-	-
	5460 (Pk)		43.44	74*	-30.56
	5460 (Av)		30.57	54*	-23.43
	11420 (Pk)		53.69	68.23	-14.54
	11420 (Av)		41.28	54	-12.72
	17130 (Pk)		56.09	68.23	-12.14
	17130 (Av)		43.97	54	-10.03
	5710 (Pk)	Horizontal	107.40	-	-
	5710 (Av)		96.28	-	-
	5460 (Pk)		43.83	74*	-30.17
	5460 (Av)		31.91	54*	-22.09
	11420 (Pk)		53.45	68.23	-14.78
	11420 (Av)		41.52	54	-12.48
	17130 (Pk)		55.65	68.23	-12.58
	17130 (Av)		43.94	54	-10.06
5755	5755 (Pk)	Vertical	97.84	-	-
	5755 (Av)		86.39	-	-
	5715(Pk)		62.88	78.20*	-15.32
	5725(Pk)		66.03	78.20*	-12.17
	11510 (Pk)		54.17	68.23	-14.06
	11510 (Av)		42.14	54	-11.86
	17265(Pk)		57.56	68.23	-10.67
	17265(Av)		44.42	54	-9.58
	5755 (Pk)	Horizontal	103.22	-	-
	5755 (Av)		92.49	-	-
	5715(Pk)		71.20	78.20*	-7.00
	5725(Pk)		72.84	78.20*	-5.36
	11510 (Pk)		54.90	68.23	-13.33
	11510 (Av)		42.23	54	-11.77
	17265(Pk)		56.28	68.23	-11.95
	17265(Av)		44.43	54	-9.57

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 190 von 285

Page 190 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	101.61	-	-
	5795 (Av)		90.18	-	-
	5850 (Pk)		62.33	78.20*	-15.87
	5860 (Pk)		58.08	78.20*	-20.12
	11590 (Pk)		54.47	68.23	-13.76
	11590 (Av)		41.72	54	-12.28
	17385 (Pk)		57.18	68.23	-11.05
	17385 (Av)		45.00	54	-9.00
	5795 (Pk)	Horizontal	106.56	-	-
	5795 (Av)		95.14	-	-
	5850 (Pk)		68.54	78.20*	-9.66
	5860 (Pk)		62.71	78.20*	-15.49
	11590 (Pk)		53.76	68.23	-14.47
	11590 (Av)		41.87	54	-12.13
	17385 (Pk)		56.36	68.23	-11.87
	17385 (Pk)		45.00	54	-9.00

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 191 von 285

Page 191 of 285

Modulation: 802.11n _ HT 40MHz

Data rate: MCS7

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	94.20	-	-
	5190 (Av)		76.88	-	-
	5150 (Pk)		52.55	74*	-21.45
	5150 (Av)		35.13	54*	-18.87
	10380 (Pk)		51.45	68.23	-16.78
	10380 (Av)		39.23	54	-14.77
	15570 (Pk)		52.64	68.23	-15.59
	15570 (Av)		40.38	54	-13.62
	5190 (Pk)	Horizontal	103.25	-	-
	5190 (Av)		86.40	-	-
	5150 (Pk)		67.62	74*	-6.38
	5150 (Av)		45.66	54*	-8.34
	10380 (Pk)		51.14	68.23	-17.09
	10380 (Av)		39.22	54	-14.78
	15570 (Pk)		52.74	68.23	-15.49
	15570 (Av)		40.37	54	-13.63
5230	5230 (Pk)	Vertical	98.07	-	-
	5230 (Av)		80.67	-	-
	5350 (Pk)		45.83	74*	-28.17
	5350 (Av)		31.41	54*	-22.59
	10460 (Pk)		51.99	68.23	-16.24
	10460 (Av)		39.37	54	-14.63
	15690 (Pk)		52.18	68.23	-16.05
	15690 (Av)		40.01	54	-13.99
	5230 (Pk)	Horizontal	107.64	-	-
	5230 (Av)		91.23	-	-
	5350 (Pk)		54.54	74*	-19.46
	5350 (Av)		36.50	54*	-17.50
	10460 (Pk)		52.10	68.23	-16.13
	10460 (Av)		39.40	54	-14.60
	15690 (Pk)		52.07	68.23	-16.16
	15690 (Av)		40.07	54	-13.93
5270	5270 (Pk)	Vertical	97.59	-	-
	5270 (Av)		80.34	-	-
	5350 (Pk)		52.04	74*	-21.96
	5350 (Av)		32.13	54*	-21.87
	10540 (Pk)		51.89	68.23	-16.34
	10540 (Av)		39.58	54	-14.42
	15810 (Pk)		52.20	68.23	-16.03
	15810 (Av)		39.91	54	-14.09
	5270 (Pk)	Horizontal	106.67	-	-
	5270 (Av)		89.94	-	-
	5350 (Pk)		60.79	74*	-13.21
	5350 (Av)		37.08	54*	-16.92
	10540 (Pk)		51.72	68.23	-16.51
	10540 (Av)		39.61	54	-14.39
	15810 (Pk)		52.06	68.23	-16.17
	15810 (Av)		39.89	54	-14.11

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 192 von 285

Page 192 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5310	5310 (Pk)	Vertical	96.60	-	-
	5310 (Av)		79.24	-	-
	5350 (Pk)		58.72	74*	-15.28
	5350 (Av)		37.23	54*	-16.77
	10620 (Pk)		50.83	68.23	-17.40
	10620 (Av)		39.51	54	-14.49
	15930 (Pk)		52.80	68.23	-15.43
	15930 (Av)		40.57	54	-13.43
	5310 (Pk)	Horizontal	105.27	-	-
	5310 (Av)		88.29	-	-
	5350 (Pk)		69.11	74*	-4.89
	5350 (Av)		45.62	54*	-8.38
	10620 (Pk)		52.50	68.23	-15.73
	10620 (Av)		39.49	54	-14.51
	15930 (Pk)		52.79	68.23	-15.44
	15930 (Av)		40.58	54	-13.42
5510	5510 (Pk)	Vertical	93.52	-	-
	5510 (Av)		76.52	-	-
	5460 (Pk)		47.65	74*	-26.35
	5460 (Av)		32.43	54*	-21.57
	11020 (Pk)		53.05	68.23	-15.18
	11020 (Av)		40.33	54	-13.67
	16530 (Pk)		54.42	68.23	-13.81
	16530 (Av)		42.66	54	-11.34
	5510 (Pk)	Horizontal	99.37	-	-
	5510 (Av)		82.43	-	-
	5460 (Pk)		55.43	74*	-18.57
	5460 (Av)		36.07	54*	-17.93
	11020 (Pk)		52.16	68.23	-16.07
	11020 (Av)		40.36	54	-13.64
	16530 (Pk)		54.60	68.23	-13.63
	16530 (Av)		42.62	54	-11.38
5590	5590 (Pk)	Vertical	98.58	-	-
	5590 (Av)		81.33	-	-
	5460 (Pk)		43.65	74*	-30.35
	5460 (Av)		30.76	54*	-23.24
	11180 (Pk)		52.12	68.23	-16.11
	11180 (Av)		39.96	54	-14.04
	16770 (Pk)		56.51	68.23	-11.72
	16770 (Av)		43.42	54	-10.58
	5590 (Pk)	Horizontal	104.67	-	-
	5590 (Av)		87.39	-	-
	5460 (Pk)		49.23	74*	-24.77
	5460 (Av)		32.77	54*	-21.23
	11180 (Pk)		52.29	68.23	-15.94
	11180 (Av)		40.00	54	-14.00
	16770 (Pk)		55.66	68.23	-12.57
	16770 (Av)		43.46	54	-10.54

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 193 von 285

Page 193 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5670	5670 (Pk)	Vertical	96.62	-	-
	5670 (Av)		79.68	-	-
	5460 (Pk)		43.38	74*	-30.62
	5460 (Av)		30.24	54*	-23.76
	11340 (Pk)		53.25	68.23	-14.98
	11340 (Av)		40.44	54	-13.56
	17010 (Pk)		54.99	68.23	-13.24
	17010 (Av)		43.57	54	-10.43
	5670 (Pk)	Horizontal	102.21	-	-
	5670 (Av)		85.02	-	-
	5460 (Pk)		43.72	74*	-30.28
	5460 (Av)		30.80	54*	-23.20
	11340 (Pk)		52.30	68.23	-15.93
	11340 (Av)		40.42	54	-13.58
	17010 (Pk)		56.40	68.23	-11.83
	17010 (Av)		43.54	54	-10.46
5710	5710 (Pk)	Vertical	98.65	-	-
	5710 (Av)		81.78	-	-
	5460 (Pk)		42.58	74*	-31.42
	5460 (Av)		30.22	54*	-23.78
	11420 (Pk)		53.52	68.23	-14.71
	11420 (Av)		41.11	54	-12.89
	17130 (Pk)		55.76	68.23	-12.47
	17130 (Av)		43.97	54	-10.03
	5710 (Pk)	Horizontal	103.76	-	-
	5710 (Av)		86.69	-	-
	5460 (Pk)		43.17	74*	-30.83
	5460 (Av)		30.67	54*	-23.33
	11420 (Pk)		53.76	68.23	-14.47
	11420 (Av)		41.08	54	-12.92
	17130 (Pk)		55.96	68.23	-12.27
	17130 (Av)		43.89	54	-10.11
5755	5755 (Pk)	Vertical	98.29	-	-
	5755 (Av)		80.66	-	-
	5715(Pk)		62.37	78.20*	-15.83
	5725(Pk)		62.23	78.20*	-15.97
	11510 (Pk)		53.99	68.23	-14.24
	11510 (Av)		42.10	54	-11.9
	17265(Pk)		55.82	68.23	-12.41
	17265(Av)		44.38	54	-9.62
	5755 (Pk)	Horizontal	103.36	-	-
	5755 (Av)		85.92	-	-
	5715(Pk)		69.64	78.20*	-8.56
	5725(Pk)		71.22	78.20*	-6.98
	11510 (Pk)		54.96	68.23	-13.27
	11510 (Av)		42.19	54	-11.81
	17265(Pk)		56.54	68.23	-11.69
	17265(Av)		44.38	54	-9.62

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 194 von 285

Page 194 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	97.99	-	-
	5795 (Av)		80.43	-	-
	5850 (Pk)		56.57	78.20*	-21.63
	5860 (Pk)		53.32	78.20*	-24.88
	11590 (Pk)		53.03	68.23	-15.20
	11590 (Av)		41.49	54	-12.51
	17385 (Pk)		56.72	68.23	-11.51
	17385 (Av)		44.96	54	-9.04
	5795 (Pk)	Horizontal	104.46	-	-
	5795 (Av)		87.59	-	-
	5850 (Pk)		62.33	78.20*	-15.87
	5860 (Pk)		57.24	78.20*	-20.96
	11590 (Pk)		54.12	68.23	-14.11
	11590 (Av)		41.53	54	-12.47
	17385 (Pk)		56.45	68.23	-11.78
	17385 (Pk)		44.98	54	-9.02

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 195 von 285

Page 195 of 285

Modulation: 802.11ac _ VHT 40MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	94.47	-	-
	5190 (Av)		83.58	-	-
	5150 (Pk)		55.50	74*	-18.50
	5150 (Av)		38.01	54*	-15.99
	10380 (Pk)		51.91	68.23	-16.32
	10380 (Av)		39.26	54	-14.74
	15570 (Pk)		53.21	68.23	-15.02
	15570 (Av)		40.38	54	-13.62
	5190 (Pk)	Horizontal	105.20	-	-
	5190 (Av)		93.77	-	-
	5150 (Pk)		66.79	74*	-7.21
	5150 (Av)		49.24	54*	-4.76
	10380 (Pk)		51.08	68.23	-17.15
	10380 (Av)		39.26	54	-14.74
	15570 (Pk)		52.40	68.23	-15.83
	15570 (Av)		40.27	54	-13.73
5230	5230 (Pk)	Vertical	99.49	-	-
	5230 (Av)		88.07	-	-
	5350 (Pk)		50.83	74*	-23.17
	5350 (Av)		34.49	54*	-19.51
	10460 (Pk)		52.54	68.23	-15.69
	10460 (Av)		39.42	54	-14.58
	15690 (Pk)		51.82	68.23	-16.41
	15690 (Av)		40.04	54	-13.96
	5230 (Pk)	Horizontal	108.23	-	-
	5230 (Av)		97.54	-	-
	5350 (Pk)		61.14	74*	-12.86
	5350 (Av)		43.49	54*	-10.51
	10460 (Pk)		52.00	68.23	-16.23
	10460 (Av)		39.41	54	-14.59
	15690 (Pk)		52.70	68.23	-15.53
	15690 (Av)		40.06	54	-13.94
5270	5270 (Pk)	Vertical	100.90	-	-
	5270 (Av)		89.48	-	-
	5350 (Pk)		58.86	74*	-15.14
	5350 (Av)		42.00	54*	-12.00
	10540 (Pk)		51.32	68.23	-16.91
	10540 (Av)		39.62	54	-14.38
	15810 (Pk)		51.42	68.23	-16.81
	15810 (Av)		39.93	54	-14.07
	5270 (Pk)	Horizontal	108.89	-	-
	5270 (Av)		97.97	-	-
	5350 (Pk)		67.72	74*	-6.28
	5350 (Av)		49.08	54*	-4.92
	10540 (Pk)		52.24	68.23	-15.99
	10540 (Av)		39.61	54	-14.39
	15810 (Pk)		51.60	68.23	-16.63
	15810 (Av)		39.86	54	-14.14

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 196 von 285

Page 196 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5310	5310 (Pk)	Vertical	97.12	-	-
	5310 (Av)		86.32	-	-
	5350 (Pk)		57.26	74*	-16.74
	5350 (Av)		40.21	54*	-13.79
	10620 (Pk)		50.34	68.23	-17.89
	10620 (Av)		39.47	54	-14.53
	15930 (Pk)		52.43	68.23	-15.80
	15930 (Av)		40.51	54	-13.49
	5310 (Pk)	Horizontal	105.91	-	-
	5310 (Av)		95.21	-	-
	5350 (Pk)		68.85	74*	-5.15
	5350 (Av)		49.78	54*	-4.22
	10620 (Pk)		51.00	68.23	-17.23
	10620 (Av)		39.50	54	-14.50
	15930 (Pk)		52.09	68.23	-16.14
	15930 (Av)		40.51	54	-13.49
5510	5510 (Pk)	Vertical	94.41	-	-
	5510 (Av)		83.28	-	-
	5460 (Pk)		48.45	74*	-25.55
	5460 (Av)		33.12	54*	-20.88
	11020 (Pk)		52.52	68.23	-15.71
	11020 (Av)		40.36	54	-13.64
	16530 (Pk)		54.49	68.23	-13.74
	16530 (Av)		42.67	54	-11.33
	5510 (Pk)	Horizontal	101.19	-	-
	5510 (Av)		89.95	-	-
	5460 (Pk)		57.54	74*	-16.46
	5460 (Av)		38.94	54*	-15.06
	11020 (Pk)		52.25	68.23	-15.98
	11020 (Av)		40.35	54	-13.65
	16530 (Pk)		55.33	68.23	-12.90
	16530 (Av)		42.64	54	-11.36
5590	5590 (Pk)	Vertical	101.36	-	-
	5590 (Av)		90.67	-	-
	5460 (Pk)		49.40	74*	-24.60
	5460 (Av)		34.38	54*	-19.62
	11180 (Pk)		52.43	68.23	-15.80
	11180 (Av)		39.96	54	-14.04
	16770 (Pk)		55.27	68.23	-12.96
	16770 (Av)		43.45	54	-10.55
	5590 (Pk)	Horizontal	106.99	-	-
	5590 (Av)		96.21	-	-
	5460 (Pk)		55.04	74*	-18.96
	5460 (Av)		39.72	54*	-14.28
	11180 (Pk)		52.17	68.23	-16.06
	11180 (Av)		39.97	54	-14.03
	16770 (Pk)		55.06	68.23	-13.17
	16770 (Av)		43.49	54	-10.51

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 197 von 285

Page 197 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5670	5670 (Pk)	Vertical	97.47	-	-
	5670 (Av)		86.46	-	-
	5460 (Pk)		43.40	74*	-30.60
	5460 (Av)		30.44	54*	-23.56
	11340 (Pk)		52.38	68.23	-15.85
	11340 (Av)		40.44	54	-13.56
	17010 (Pk)		55.02	68.23	-13.21
	17010 (Av)		43.56	54	-10.44
	5670 (Pk)	Horizontal	102.92	-	-
	5670 (Av)		91.80	-	-
	5460 (Pk)		44.16	74*	-29.84
	5460 (Av)		31.53	54*	-22.47
	11340 (Pk)		52.55	68.23	-15.68
	11340 (Av)		40.49	54	-13.51
	17010 (Pk)		55.21	68.23	-13.02
	17010 (Av)		43.53	54	-10.47
5710	5710 (Pk)	Vertical	101.77	-	-
	5710 (Av)		90.79	-	-
	5460 (Pk)		42.67	74*	-31.33
	5460 (Av)		30.46	54*	-23.54
	11420 (Pk)		52.96	68.23	-15.27
	11420 (Av)		41.24	54	-12.76
	17130 (Pk)		56.13	68.23	-12.10
	17130 (Av)		43.93	54	-10.07
	5710 (Pk)	Horizontal	106.79	-	-
	5710 (Av)		95.13	-	-
	5460 (Pk)		44.15	74*	-29.85
	5460 (Av)		31.68	54*	-22.32
	11420 (Pk)		53.77	68.23	-14.46
	11420 (Av)		41.31	54	-12.69
	17130 (Pk)		55.19	68.23	-13.04
	17130 (Av)		43.55	54	-10.45
5755	5755 (Pk)	Vertical	99.01	-	-
	5755 (Av)		87.63	-	-
	5715(Pk)		66.16	78.20*	-12.04
	5725(Pk)		64.46	78.20*	-13.74
	11510 (Pk)		54.60	68.23	-13.63
	11510 (Av)		42.21	54	-11.79
	17265(Pk)		56.39	68.23	-11.84
	17265(Av)		44.41	54	-9.59
	5755 (Pk)	Horizontal	104.86	-	-
	5755 (Av)		93.51	-	-
	5715(Pk)		73.52	78.20*	-4.68
	5725(Pk)		75.03	78.20*	-3.17
	11510 (Pk)		53.91	68.23	-14.32
	11510 (Av)		42.22	54	-11.78
	17265(Pk)		55.87	68.23	-12.36
	17265(Av)		44.33	54	-9.67

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 198 von 285

Page 198 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	100.67	-	-
	5795 (Av)		89.15	-	-
	5850 (Pk)		55.95	78.20*	-22.25
	5860 (Pk)		54.21	78.20*	-23.99
	11590 (Pk)		53.18	68.23	-15.05
	11590 (Av)		41.56	54	-12.44
	17385 (Pk)		57.42	68.23	-10.81
	17385 (Av)		44.96	54	-9.04
	5795 (Pk)	Horizontal	105.74	-	-
	5795 (Av)		93.98	-	-
	5850 (Pk)		61.31	78.20*	-16.89
	5860 (Pk)		59.17	78.20*	-19.03
	11590 (Pk)		53.74	68.23	-14.49
	11590 (Av)		41.71	54	-12.29
	17385 (Pk)		57.30	68.23	-10.93
	17385 (Pk)		45.01	54	-8.99

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 199 von 285

Page 199 of 285

Modulation: 802.11ac _ VHT 40MHz

Data rate: MCS9

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	94.38	-	-
	5190 (Av)		76.42	-	-
	5150 (Pk)		53.34	74*	-20.66
	5150 (Av)		35.20	54*	-18.80
	10380 (Pk)		51.78	68.23	-16.45
	10380 (Av)		39.18	54	-14.82
	15570 (Pk)		51.83	68.23	-16.40
	15570 (Av)		40.27	54	-13.73
	5190 (Pk)	Horizontal	104.55	-	-
	5190 (Av)		86.98	-	-
	5150 (Pk)		65.99	74*	-8.01
	5150 (Av)		45.76	54*	-8.24
	10380 (Pk)		50.67	68.23	-17.56
	10380 (Av)		39.21	54	-14.79
	15570 (Pk)		52.51	68.23	-15.72
	15570 (Av)		40.33	54	-13.67
5230	5230 (Pk)	Vertical	97.40	-	-
	5230 (Av)		79.27	-	-
	5350 (Pk)		45.22	74*	-28.78
	5350 (Av)		31.18	54*	-22.82
	10460 (Pk)		51.27	68.23	-16.96
	10460 (Av)		39.35	54	-14.65
	15690 (Pk)		51.34	68.23	-16.89
	15690 (Av)		39.97	54	-14.03
	5230 (Pk)	Horizontal	107.33	-	-
	5230 (Av)		89.57	-	-
	5350 (Pk)		51.88	74*	-22.12
	5350 (Av)		35.04	54*	-18.96
	10460 (Pk)		51.39	68.23	-16.84
	10460 (Av)		39.37	54	-14.63
	15690 (Pk)		51.51	68.23	-16.72
	15690 (Av)		39.95	54	-14.05
5270	5270 (Pk)	Vertical	96.68	-	-
	5270 (Av)		78.85	-	-
	5350 (Pk)		51.64	74*	-22.36
	5350 (Av)		31.47	54*	-22.53
	10540 (Pk)		52.21	68.23	-16.02
	10540 (Av)		39.58	54	-14.42
	15810 (Pk)		51.74	68.23	-16.49
	15810 (Av)		39.58	54	-14.42
	5270 (Pk)	Horizontal	106.32	-	-
	5270 (Av)		88.63	-	-
	5350 (Pk)		59.00	74*	-15.00
	5350 (Av)		36.05	54*	-17.95
	10540 (Pk)		50.74	68.23	-17.49
	10540 (Av)		39.59	54	-14.41
	15810 (Pk)		51.15	68.23	-17.08
	15810 (Av)		39.81	54	-14.19

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 200 von 285

Page 200 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5310	5310 (Pk)	Vertical	96.98	-	-
	5310 (Av)		78.73	-	-
	5350 (Pk)		57.80	74*	-16.20
	5350 (Av)		36.44	54*	-17.56
	10620 (Pk)		50.64	68.23	-17.59
	10620 (Av)		39.40	54	-14.60
	15930 (Pk)		52.24	68.23	-15.99
	15930 (Av)		40.57	54	-13.43
	5310 (Pk)	Horizontal	105.89	-	-
	5310 (Av)		88.18	-	-
	5350 (Pk)		66.63	74*	-7.37
	5350 (Av)		45.06	54*	-8.94
	10620 (Pk)		51.85	68.23	-16.38
	10620 (Av)		39.48	54	-14.52
	15930 (Pk)		51.98	68.23	-16.25
	15930 (Av)		40.55	54	-13.45
5510	5510 (Pk)	Vertical	93.60	-	-
	5510 (Av)		75.65	-	-
	5460 (Pk)		47.33	74*	-26.67
	5460 (Av)		32.14	54*	-21.86
	11020 (Pk)		52.36	68.23	-15.87
	11020 (Av)		40.35	54	-13.65
	16530 (Pk)		54.34	68.23	-13.89
	16530 (Av)		42.65	54	-11.35
	5510 (Pk)	Horizontal	100.41	-	-
	5510 (Av)		82.77	-	-
	5460 (Pk)		55.24	74*	-18.76
	5460 (Av)		35.84	54*	-18.16
	11020 (Pk)		52.71	68.23	-15.52
	11020 (Av)		40.35	54	-13.65
	16530 (Pk)		55.27	68.23	-12.96
	16530 (Av)		42.69	54	-11.31
5590	5590 (Pk)	Vertical	97.41	-	-
	5590 (Av)		79.92	-	-
	5460 (Pk)		43.28	74*	-30.72
	5460 (Av)		30.68	54*	-23.32
	11180 (Pk)		51.67	68.23	-16.56
	11180 (Av)		39.89	54	-14.11
	16770 (Pk)		54.78	68.23	-13.45
	16770 (Av)		43.40	54	-10.60
	5590 (Pk)	Horizontal	103.79	-	-
	5590 (Av)		86.06	-	-
	5460 (Pk)		48.02	74*	-25.98
	5460 (Av)		32.31	54*	-21.69
	11180 (Pk)		51.38	68.23	-16.85
	11180 (Av)		39.97	54	-14.03
	16770 (Pk)		55.16	68.23	-13.07
	16770 (Av)		43.41	54	-10.59

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 201 von 285

Page 201 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5670	5670 (Pk)	Vertical	97.64	-	-
	5670 (Av)		79.61	-	-
	5460 (Pk)		43.36	74*	-30.64
	5460 (Av)		30.27	54*	-23.73
	11340 (Pk)		51.91	68.23	-16.32
	11340 (Av)		40.42	54	-13.58
	17010 (Pk)		55.06	68.23	-13.17
	17010 (Av)		43.58	54	-10.42
	5670 (Pk)	Horizontal	102.32	-	-
	5670 (Av)		84.79	-	-
	5460 (Pk)		43.92	74*	-30.08
	5460 (Av)		30.83	54*	-23.17
	11340 (Pk)		51.93	68.23	-16.30
	11340 (Av)		40.40	54	-13.60
	17010 (Pk)		55.79	68.23	-12.44
	17010 (Av)		43.55	54	-10.45
5710	5710 (Pk)	Vertical	97.58	-	-
	5710 (Av)		79.31	-	-
	5460 (Pk)		42.65	74*	-31.35
	5460 (Av)		30.22	54*	-23.78
	11420 (Pk)		52.35	68.23	-15.88
	11420 (Av)		41.11	54	-12.89
	17130 (Pk)		55.93	68.23	-12.30
	17130 (Av)		43.87	54	-10.13
	5710 (Pk)	Horizontal	103.50	-	-
	5710 (Av)		85.84	-	-
	5460 (Pk)		43.44	74*	-30.56
	5460 (Av)		30.65	54*	-23.35
	11420 (Pk)		53.54	68.23	-14.69
	11420 (Av)		41.20	54	-12.80
	17130 (Pk)		55.19	68.23	-13.04
	17130 (Av)		43.83	54	-10.17
5755	5755 (Pk)	Vertical	98.96	-	-
	5755 (Av)		80.19	-	-
	5715(Pk)		60.66	78.20*	-17.54
	5725(Pk)		63.01	78.20*	-15.19
	11510 (Pk)		54.86	68.23	-13.37
	11510 (Av)		42.15	54	-11.85
	17265(Pk)		56.54	68.23	-11.69
	17265(Av)		44.41	54	-9.59
	5755 (Pk)	Horizontal	103.01	-	-
	5755 (Av)		85.30	-	-
	5715(Pk)		67.36	78.20*	-10.84
	5725(Pk)		70.32	78.20*	-7.88
	11510 (Pk)		54.61	68.23	-13.62
	11510 (Av)		42.29	54	-11.71
	17265(Pk)		57.21	68.23	-11.02
	17265(Av)		44.38	54	-9.62

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 202 von 285

Page 202 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	99.43	-	-
	5795 (Av)		80.77	-	-
	5850 (Pk)		54.02	78.20*	-24.18
	5860 (Pk)		50.79	78.20*	-27.41
	11590 (Pk)		53.71	68.23	-14.52
	11590 (Av)		41.52	54	-12.48
	17385 (Pk)		57.33	68.23	-10.90
	17385 (Av)		44.92	54	-9.08
	5795 (Pk)	Horizontal	103.78	-	-
	5795 (Av)		86.18	-	-
	5850 (Pk)		58.44	78.20*	-19.76
	5860 (Pk)		56.87	78.20*	-21.33
	11590 (Pk)		53.87	68.23	-14.36
	11590 (Av)		41.53	54	-12.47
	17385 (Pk)		57.75	68.23	-10.48
	17385 (Pk)		45.00	54	-9.00

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 203 von 285

Page 203 of 285

Modulation: 802.11ax _ HE 40MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	96.38	-	-
	5190 (Av)		82.27	-	-
	5150 (Pk)		56.52	74*	-17.48
	5150 (Av)		39.86	54*	-14.14
	10380 (Pk)		50.90	68.23	-17.33
	10380 (Av)		39.44	54	-14.56
	15570 (Pk)		52.33	68.23	-15.90
	15570 (Av)		40.41	54	-13.59
	5190 (Pk)	Horizontal	106.75	-	-
	5190 (Av)		92.88	-	-
	5150 (Pk)		69.92	74*	-4.08
	5150 (Av)		52.22	54*	-1.78
	10380 (Pk)		51.12	68.23	-17.11
	10380 (Av)		39.55	54	-14.45
	15570 (Pk)		53.12	68.23	-15.11
	15570 (Av)		40.44	54	-13.56
5230	5230 (Pk)	Vertical	100.42	-	-
	5230 (Av)		86.20	-	-
	5350 (Pk)		55.41	74*	-18.59
	5350 (Av)		38.69	54*	-15.31
	10460 (Pk)		51.71	68.23	-16.52
	10460 (Av)		39.47	54	-14.53
	15690 (Pk)		57.67	68.23	-10.56
	15690 (Av)		40.21	54	-13.79
	5230 (Pk)	Horizontal	111.12	-	-
	5230 (Av)		96.36	-	-
	5350 (Pk)		63.69	74*	-10.31
	5350 (Av)		45.73	54*	-8.27
	10460 (Pk)		52.45	68.23	-15.78
	10460 (Av)		39.62	54	-14.38
	15690 (Pk)		52.28	68.23	-15.95
	15690 (Av)		40.22	54	-13.78
5270	5270 (Pk)	Vertical	102.26	-	-
	5270 (Av)		87.56	-	-
	5350 (Pk)		58.32	74*	-15.68
	5350 (Av)		42.05	54*	-11.95
	10540 (Pk)		51.58	68.23	-16.65
	10540 (Av)		39.78	54	-14.22
	15810 (Pk)		51.14	68.23	-17.09
	15810 (Av)		39.98	54	-14.02
	5270 (Pk)	Horizontal	110.95	-	-
	5270 (Av)		96.91	-	-
	5350 (Pk)		68.82	74*	-5.18
	5350 (Av)		49.76	54*	-4.24
	10540 (Pk)		51.82	68.23	-16.41
	10540 (Av)		39.83	54	-14.17
	15810 (Pk)		51.74	68.23	-16.49
	15810 (Av)		40.01	54	-13.99

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 204 von 285

Page 204 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5310	5310 (Pk)	Vertical	87.55	-	-
	5310 (Av)		73.05	-	-
	5350 (Pk)		52.54	74*	-21.46
	5350 (Av)		34.93	54*	-19.07
	10620 (Pk)		51.32	68.23	-16.91
	10620 (Av)		39.63	54	-14.37
	15930 (Pk)		52.47	68.23	-15.76
	15930 (Av)		40.60	54	-13.40
	5310 (Pk)	Horizontal	106.52	-	-
	5310 (Av)		92.81	-	-
	5350 (Pk)		67.59	74*	-6.41
	5350 (Av)		51.04	54*	-2.96
	10620 (Pk)		50.86	68.23	-17.37
	10620 (Av)		39.59	54	-14.41
	15930 (Pk)		52.65	68.23	-15.58
	15930 (Av)		40.62	54	-13.38
5510	5510 (Pk)	Vertical	95.25	-	-
	5510 (Av)		80.67	-	-
	5460 (Pk)		49.69	74*	-24.31
	5460 (Av)		33.43	54*	-20.57
	11020 (Pk)		52.95	68.23	-15.28
	11020 (Av)		40.52	54	-13.48
	16530 (Pk)		55.11	68.23	-13.12
	16530 (Av)		42.71	54	-11.29
	5510 (Pk)	Horizontal	102.80	-	-
	5510 (Av)		88.52	-	-
	5460 (Pk)		59.49	74*	-14.51
	5460 (Av)		40.90	54*	-13.10
	11020 (Pk)		53.18	68.23	-15.05
	11020 (Av)		40.52	54	-13.48
	16530 (Pk)		55.68	68.23	-12.55
	16530 (Av)		42.72	54	-11.28
5590	5590 (Pk)	Vertical	103.85	-	-
	5590 (Av)		89.63	-	-
	5460 (Pk)		52.69	74*	-21.31
	5460 (Av)		36.62	54*	-17.38
	11180 (Pk)		52.04	68.23	-16.19
	11180 (Av)		40.16	54	-13.84
	16770 (Pk)		55.56	68.23	-12.67
	16770 (Av)		43.49	54	-10.51
	5590 (Pk)	Horizontal	109.80	-	-
	5590 (Av)		95.31	-	-
	5460 (Pk)		60.21	74*	-13.79
	5460 (Av)		42.92	54*	-11.08
	11180 (Pk)		52.42	68.23	-15.81
	11180 (Av)		40.16	54	-13.84
	16770 (Pk)		55.56	68.23	-12.67
	16770 (Av)		43.43	54	-10.57

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 205 von 285

Page 205 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5670	5670 (Pk)	Vertical	98.50	-	-
	5670 (Av)		84.76	-	-
	5460 (Pk)		43.15	74*	-30.85
	5460 (Av)		30.66	54*	-23.34
	11340 (Pk)		51.81	68.23	-16.42
	11340 (Av)		40.60	54	-13.40
	17010 (Pk)		55.27	68.23	-12.96
	17010 (Av)		43.52	54	-10.48
	5670 (Pk)	Horizontal	104.30	-	-
	5670 (Av)		90.10	-	-
	5460 (Pk)		45.37	74*	-28.63
	5460 (Av)		32.56	54*	-21.44
	11340 (Pk)		52.28	68.23	-15.95
	11340 (Av)		40.50	54	-13.50
	17010 (Pk)		54.83	68.23	-13.40
	17010 (Av)		43.56	54	-10.44
5710	5710 (Pk)	Vertical	104.75	-	-
	5710 (Av)		89.94	-	-
	5460 (Pk)		44.69	74*	-29.31
	5460 (Av)		31.97	54*	-22.03
	11420 (Pk)		52.82	68.23	-15.41
	11420 (Av)		41.33	54	-12.67
	17130 (Pk)		55.61	68.23	-12.62
	17130 (Av)		43.87	54	-10.13
	5710 (Pk)	Horizontal	109.58	-	-
	5710 (Av)		95.21	-	-
	5460 (Pk)		49.47	74*	-24.53
	5460 (Av)		35.57	54*	-18.43
	11420 (Pk)		53.75	68.23	-14.48
	11420 (Av)		41.52	54	-12.48
	17130 (Pk)		54.51	68.23	-13.72
	17130 (Av)		43.89	54	-10.11
5755	5755 (Pk)	Vertical	101.15	-	-
	5755 (Av)		86.31	-	-
	5715(Pk)		65.15	78.20*	-13.05
	5725(Pk)		68.74	78.20*	-9.46
	11510 (Pk)		53.53	68.23	-14.7
	11510 (Av)		42.22	54	-11.78
	17265(Pk)		56.22	68.23	-12.01
	17265(Av)		44.32	54	-9.68
	5755 (Pk)	Horizontal	105.33	-	-
	5755 (Av)		90.67	-	-
	5715(Pk)		71.51	78.20*	-6.69
	5725(Pk)		74.67	78.20*	-3.53
	11510 (Pk)		54.69	68.23	-13.54
	11510 (Av)		42.24	54	-11.76
	17265(Pk)		56.71	68.23	-11.52
	17265(Av)		44.37	54	-9.63

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 206 von 285

Page 206 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	100.80	-	-
	5795 (Av)		86.24	-	-
	5850 (Pk)		56.40	78.20*	-21.80
	5860 (Pk)		54.46	78.20*	-23.74
	11590 (Pk)		53.73	68.23	-14.50
	11590 (Av)		41.48	54	-12.52
	17385 (Pk)		57.36	68.23	-10.87
	17385 (Av)		44.97	54	-9.03
	5795 (Pk)	Horizontal	105.92	-	-
	5795 (Av)		91.53	-	-
	5850 (Pk)		60.51	78.20*	-17.69
	5860 (Pk)		59.56	78.20*	-18.64
	11590 (Pk)		53.74	68.23	-14.49
	11590 (Av)		41.66	54	-12.34
	17385 (Pk)		57.52	68.23	-10.71
	17385 (Pk)		44.95	54	-9.05

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 207 von 285

Page 207 of 285

Modulation: 802.11ax _ HE 40MHz

Data rate: MCS11

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	96.08	-	-
	5190 (Av)		76.31	-	-
	5150 (Pk)		56.31	74*	-17.69
	5150 (Av)		37.87	54*	-16.13
	10380 (Pk)		51.08	68.23	-17.15
	10380 (Av)		39.25	54	-14.75
	15570 (Pk)		51.71	68.23	-16.52
	15570 (Av)		40.41	54	-13.59
	5190 (Pk)	Horizontal	105.56	-	-
	5190 (Av)		86.08	-	-
	5150 (Pk)		67.06	74*	-6.94
	5150 (Av)		46.61	54*	-7.39
	10380 (Pk)		51.12	68.23	-17.11
	10380 (Av)		39.29	54	-14.71
	15570 (Pk)		52.68	68.23	-15.55
	15570 (Av)		40.42	54	-13.58
5230	5230 (Pk)	Vertical	97.63	-	-
	5230 (Av)		78.21	-	-
	5350 (Pk)		45.43	74*	-28.57
	5350 (Av)		31.10	54*	-22.90
	10460 (Pk)		51.26	68.23	-16.97
	10460 (Av)		39.37	54	-14.63
	15690 (Pk)		51.37	68.23	-16.86
	15690 (Av)		40.08	54	-13.92
	5230 (Pk)	Horizontal	104.89	-	-
	5230 (Av)		86.38	-	-
	5350 (Pk)		52.92	74*	-21.08
	5350 (Av)		34.37	54*	-19.63
	10460 (Pk)		51.76	68.23	-16.47
	10460 (Av)		39.41	54	-14.59
	15690 (Pk)		51.61	68.23	-16.62
	15690 (Av)		40.09	54	-13.91
5270	5270 (Pk)	Vertical	94.55	-	-
	5270 (Av)		74.88	-	-
	5350 (Pk)		43.41	74*	-30.59
	5350 (Av)		30.43	54*	-23.57
	10540 (Pk)		51.90	68.23	-16.33
	10540 (Av)		39.66	54	-14.34
	15810 (Pk)		51.82	68.23	-16.41
	15810 (Av)		39.94	54	-14.06
	5270 (Pk)	Horizontal	98.85	-	-
	5270 (Av)		79.80	-	-
	5350 (Pk)		45.89	74*	-28.11
	5350 (Av)		32.02	54*	-21.98
	10540 (Pk)		51.90	68.23	-16.33
	10540 (Av)		39.66	54	-14.34
	15810 (Pk)		51.82	68.23	-16.41
	15810 (Av)		39.94	54	-14.06

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 208 von 285

Page 208 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5310	5310 (Pk)	Vertical	97.67	-	-
	5310 (Av)		78.00	-	-
	5350 (Pk)		52.83	74*	-21.17
	5350 (Av)		34.94	54*	-19.06
	10620 (Pk)		51.56	68.23	-16.67
	10620 (Av)		39.61	54	-14.39
	15930 (Pk)		52.49	68.23	-15.74
	15930 (Av)		40.61	54	-13.39
	5310 (Pk)	Horizontal	103.77	-	-
	5310 (Av)		84.57	-	-
	5350 (Pk)		59.73	74*	-14.27
	5350 (Av)		40.00	54*	-14.00
	10620 (Pk)		51.45	68.23	-16.78
	10620 (Av)		39.58	54	-14.42
	15930 (Pk)		53.43	68.23	-14.80
	15930 (Av)		40.59	54	-13.41
5510	5510 (Pk)	Vertical	98.78	-	-
	5510 (Av)		79.38	-	-
	5460 (Pk)		54.55	74*	-19.45
	5460 (Av)		34.96	54*	-19.04
	11020 (Pk)		52.32	68.23	-15.91
	11020 (Av)		40.42	54	-13.58
	16530 (Pk)		54.88	68.23	-13.35
	16530 (Av)		42.66	54	-11.34
	5510 (Pk)	Horizontal	99.51	-	-
	5510 (Av)		80.82	-	-
	5460 (Pk)		58.29	74*	-15.71
	5460 (Av)		36.34	54*	-17.66
	11020 (Pk)		51.71	68.23	-16.52
	11020 (Av)		40.42	54	-13.58
	16530 (Pk)		54.33	68.23	-13.90
	16530 (Av)		42.59	54	-11.41
5590	5590 (Pk)	Vertical	98.50	-	-
	5590 (Av)		79.69	-	-
	5460 (Pk)		44.55	74*	-29.45
	5460 (Av)		30.80	54*	-23.20
	11180 (Pk)		52.19	68.23	-16.04
	11180 (Av)		40.00	54	-14.00
	16770 (Pk)		55.25	68.23	-12.98
	16770 (Av)		43.45	54	-10.55
	5590 (Pk)	Horizontal	99.17	-	-
	5590 (Av)		81.21	-	-
	5460 (Pk)		44.03	74*	-29.97
	5460 (Av)		31.08	54*	-22.92
	11180 (Pk)		51.24	68.23	-16.99
	11180 (Av)		40.00	54	-14.00
	16770 (Pk)		55.60	68.23	-12.63
	16770 (Av)		43.44	54	-10.56

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 209 von 285

Page 209 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5670	5670 (Pk)	Vertical	99.14	-	-
	5670 (Av)		79.30	-	-
	5460 (Pk)		43.00	74*	-31.00
	5460 (Av)		30.40	54*	-23.60
	11340 (Pk)		52.57	68.23	-15.66
	11340 (Av)		40.47	54	-13.53
	17010 (Pk)		55.35	68.23	-12.88
	17010 (Av)		43.49	54	-10.51
	5670 (Pk)	Horizontal	102.23	-	-
	5670 (Av)		84.25	-	-
	5460 (Pk)		44.01	74*	-29.99
	5460 (Av)		31.19	54*	-22.81
	11340 (Pk)		52.41	68.23	-15.82
	11340 (Av)		40.54	54	-13.46
	17010 (Pk)		54.93	68.23	-13.30
	17010 (Av)		43.56	54	-10.44
5710	5710 (Pk)	Vertical	98.63	-	-
	5710 (Av)		79.26	-	-
	5460 (Pk)		43.16	74*	-30.84
	5460 (Av)		30.28	54*	-23.72
	11420 (Pk)		53.32	68.23	-14.91
	11420 (Av)		41.10	54	-12.90
	17130 (Pk)		55.75	68.23	-12.48
	17130 (Av)		43.92	54	-10.08
	5710 (Pk)	Horizontal	98.82	-	-
	5710 (Av)		80.27	-	-
	5460 (Pk)		43.28	74*	-30.72
	5460 (Av)		30.30	54*	-23.70
	11420 (Pk)		52.94	68.23	-15.29
	11420 (Av)		41.07	54	-12.93
	17130 (Pk)		54.95	68.23	-13.28
	17130 (Av)		43.90	54	-10.10
5755	5755 (Pk)	Vertical	97.67	-	-
	5755 (Av)		78.55	-	-
	5715(Pk)		57.00	78.20*	-21.2
	5725(Pk)		59.48	78.20*	-18.72
	11510 (Pk)		54.04	68.23	-14.19
	11510 (Av)		42.18	54	-11.82
	17265(Pk)		56.32	68.23	-11.91
	17265(Av)		44.38	54	-9.62
	5755 (Pk)	Horizontal	99.71	-	-
	5755 (Av)		81.72	-	-
	5715(Pk)		61.87	78.20*	-16.33
	5725(Pk)		63.57	78.20*	-14.63
	11510 (Pk)		54.47	68.23	-13.76
	11510 (Av)		42.17	54	-11.83
	17265(Pk)		56.98	68.23	-11.25
	17265(Av)		44.40	54	-9.6

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 210 von 285

Page 210 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	95.77	-	-
	5795 (Av)		77.59	-	-
	5850 (Pk)		47.84	78.20*	-30.36
	5860 (Pk)		46.45	78.20*	-31.75
	11590 (Pk)		53.13	68.23	-15.10
	11590 (Av)		41.45	54	-12.55
	17385 (Pk)		57.26	68.23	-10.97
	17385 (Av)		44.96	54	-9.04
	5795 (Pk)	Horizontal	101.35	-	-
	5795 (Av)		82.67	-	-
	5850 (Pk)		52.99	78.20*	-25.21
	5860 (Pk)		49.59	78.20*	-28.61
	11590 (Pk)		53.92	68.23	-14.31
	11590 (Av)		41.43	54	-12.57
	17385 (Pk)		57.17	68.23	-11.06
	17385 (Pk)		45.01	54	-8.99

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 211 von 285

Page 211 of 285

Modulation: 802.11ac _ VHT 80MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	88.76	-	-
	5210 (Av)		75.45	-	-
	5150 (Pk)		51.83	74*	-22.17
	5150 (Av)		35.66	54*	-18.34
	10420 (Pk)		50.84	68.23	-17.39
	10420 (Av)		39.11	54	-14.89
	15630 (Pk)		53.46	68.23	-14.77
	15630 (Av)		40.32	54	-13.68
	5210 (Pk)	Horizontal	98.95	-	-
	5210 (Av)		84.32	-	-
	5150 (Pk)		63.39	74*	-10.61
	5150 (Av)		44.34	54*	-9.66
	10420 (Pk)		51.53	68.23	-16.70
	10420 (Av)		39.10	54	-14.90
	15630 (Pk)		53.40	68.23	-14.83
	15630 (Av)		40.28	54	-13.72
5290	5290 (Pk)	Vertical	88.77	-	-
	5290 (Av)		74.55	-	-
	5350 (Pk)		54.56	74*	-19.44
	5350 (Av)		38.18	54*	-15.82
	10580 (Pk)		52.88	68.23	-15.35
	10580 (Av)		39.70	54	-14.30
	15870 (Pk)		51.87	68.23	-16.36
	15870 (Av)		40.13	54	-13.87
	5290 (Pk)	Horizontal	99.74	-	-
	5290 (Av)		84.92	-	-
	5350 (Pk)		64.54	74*	-9.46
	5350 (Av)		46.54	54*	-7.46
	10580 (Pk)		51.59	68.23	-16.64
	10580 (Av)		39.66	54	-14.34
	15870 (Pk)		52.81	68.23	-15.42
	15870 (Av)		40.13	54	-13.87
5530	5530 (Pk)	Vertical	90.91	-	-
	5530 (Av)		77.82	-	-
	5460 (Pk)		55.83	74*	-18.17
	5460 (Av)		38.05	54*	-15.95
	11060 (Pk)		53.97	68.23	-14.26
	11060 (Av)		40.44	54	-13.56
	16590 (Pk)		55.04	68.23	-13.19
	16590 (Av)		42.67	54	-11.33
	5530 (Pk)	Horizontal	98.29	-	-
	5530 (Av)		84.41	-	-
	5460 (Pk)		61.58	74*	-12.42
	5460 (Av)		44.72	54*	-9.28
	11060 (Pk)		51.99	68.23	-16.24
	11060 (Av)		40.47	54	-13.53
	16590 (Pk)		54.89	68.23	-13.34
	16590 (Av)		42.68	54	-11.32

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:
Test Report No.:

IN23ESPY 001

Seite 212 von 285
Page 212 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5690	5690 (Pk)	Vertical	95.19	-	-
	5690 (Av)		80.89	-	-
	5460 (Pk)		48.08	74*	-25.92
	5460 (Av)		33.73	54*	-20.27
	11380 (Pk)		53.27	68.23	-14.96
	11380 (Av)		41.21	54	-12.79
	17070 (Pk)		55.05	68.23	-13.18
	17070 (Av)		43.55	54	-10.45
	5690 (Pk)	Horizontal	102.71	-	-
	5690 (Av)		88.35	-	-
	5460 (Pk)		57.72	74*	-16.28
	5460 (Av)		39.70	54*	-14.30
	11380 (Pk)		53.24	68.23	-14.99
	11380 (Av)		41.24	54	-12.76
	17070 (Pk)		55.97	68.23	-12.26
	17070 (Av)		43.47	54	-10.53
5775	5775 (Pk)	Vertical	94.34	-	-
	5775 (Av)		79.39	-	-
	11550 (Pk)		56.65	68.23	-11.58
	11550 (Av)		42.22	54	-11.78
	17325 (Pk)		55.84	68.23	-12.39
	17325 (Av)		44.37	54	-9.63
	5775 (Pk)	Horizontal	99.50	-	-
	5775 (Av)		83.58	-	-
	11550 (Pk)		53.93	68.23	-14.30
	11550 (Av)		42.23	54	-11.77
	17325 (Pk)		56.23	68.23	-12.00
	17325 (Av)		44.38	54	-9.62

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 213 von 285

Page 213 of 285

Modulation: 802.11ac _ VHT 80MHz

Data rate: MCS9

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	88.47	-	-
	5210 (Av)		67.92	-	-
	5150 (Pk)		50.41	74*	-23.59
	5150 (Av)		34.14	54*	-19.86
	10420 (Pk)		51.69	68.23	-16.54
	10420 (Av)		39.09	54	-14.91
	15630 (Pk)		52.18	68.23	-16.05
	15630 (Av)		40.31	54	-13.69
	5210 (Pk)	Horizontal	101.48	-	-
	5210 (Av)		81.95	-	-
	5150 (Pk)		63.00	74*	-11.00
	5150 (Av)		44.52	54*	-9.48
	10420 (Pk)		51.42	68.23	-16.81
	10420 (Av)		39.08	54	-14.92
	15630 (Pk)		52.66	68.23	-15.57
	15630 (Av)		40.32	54	-13.68
5290	5290 (Pk)	Vertical	89.41	-	-
	5290 (Av)		69.40	-	-
	5350 (Pk)		56.03	74*	-17.97
	5350 (Av)		34.99	54*	-19.01
	10580 (Pk)		51.24	68.23	-16.99
	10580 (Av)		39.67	54	-14.33
	15870 (Pk)		51.84	68.23	-16.39
	15870 (Av)		40.14	54	-13.86
	5290 (Pk)	Horizontal	100.36	-	-
	5290 (Av)		80.67	-	-
	5350 (Pk)		65.00	74*	-9.00
	5350 (Av)		42.41	54*	-11.59
	10580 (Pk)		51.76	68.23	-16.47
	10580 (Av)		39.65	54	-14.35
	15870 (Pk)		53.86	68.23	-14.37
	15870 (Av)		40.15	54	-13.85
5530	5530 (Pk)	Vertical	92.27	-	-
	5530 (Av)		73.08	-	-
	5460 (Pk)		53.11	74*	-20.89
	5460 (Av)		34.61	54*	-19.39
	11060 (Pk)		52.17	68.23	-16.06
	11060 (Av)		40.42	54	-13.58
	16590 (Pk)		54.79	68.23	-13.44
	16590 (Av)		42.17	54	-11.83
	5530 (Pk)	Horizontal	97.86	-	-
	5530 (Av)		78.92	-	-
	5460 (Pk)		57.79	74*	-16.21
	5460 (Av)		37.80	54*	-16.20
	11060 (Pk)		52.37	68.23	-15.86
	11060 (Av)		40.40	54	-13.60
	16590 (Pk)		54.50	68.23	-13.73
	16590 (Av)		42.69	54	-11.31

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 214 von 285

Page 214 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5690	5690 (Pk)	Vertical	92.88	-	-
	5690 (Av)		72.3	-	-
	5460 (Pk)		44.17	74*	-29.83
	5460 (Av)		30.87	54*	-23.13
	11380 (Pk)		53.64	68.23	-14.59
	11380 (Av)		41.22	54	-12.78
	17070 (Pk)		55.39	68.23	-12.84
	17070 (Av)		43.47	54	-10.53
	5690 (Pk)	Horizontal	99.05	-	-
	5690 (Av)		79.84	-	-
	5460 (Pk)		49.05	74*	-24.95
	5460 (Av)		32.79	54*	-21.21
	11380 (Pk)		54.29	68.23	-13.94
	11380 (Av)		41.24	54	-12.76
	17070 (Pk)		55.01	68.23	-13.22
	17070 (Av)		43.55	54	-10.45
5775	5775 (Pk)	Vertical	90.22	-	-
	5775 (Av)		70.76	-	-
	11550 (Pk)		53.73	68.23	-14.50
	11550 (Av)		42.14	54	-11.86
	17325 (Pk)		56.57	68.23	-11.66
	17325 (Av)		44.39	54	-9.61
	5775 (Pk)	Horizontal	98.95	-	-
	5775 (Av)		79.31	-	-
	11550 (Pk)		54.24	68.23	-13.99
	11550 (Av)		42.13	54	-11.87
	17325 (Pk)		56.08	68.23	-12.15
	17325 (Av)		44.37	54	-9.63

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av : Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 215 von 285

Page 215 of 285

Modulation: 802.11ax _ HE 80MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	94.17	-	-
	5210 (Av)		78.66	-	-
	5150 (Pk)		56.88	74*	-17.12
	5150 (Av)		40.14	54*	-13.86
	10420 (Pk)		52.13	68.23	-16.10
	10420 (Av)		39.16	54	-14.84
	15630 (Pk)		52.44	68.23	-15.79
	15630 (Av)		40.45	54	-13.55
	5210 (Pk)	Horizontal	104.77	-	-
	5210 (Av)		88.61	-	-
	5150 (Pk)		67.05	74*	-6.95
	5150 (Av)		47.13	54*	-6.87
	10420 (Pk)		51.57	68.23	-16.66
	10420 (Av)		39.16	54	-14.84
	15630 (Pk)		52.32	68.23	-15.91
	15630 (Av)		40.40	54	-13.60
5290	5290 (Pk)	Vertical	93.06	-	-
	5290 (Av)		77.40	-	-
	5350 (Pk)		56.34	74*	-17.66
	5350 (Av)		39.36	54*	-14.64
	10580 (Pk)		52.74	68.23	-15.49
	10580 (Av)		39.69	54	-14.31
	15870 (Pk)		52.87	68.23	-15.36
	15870 (Av)		40.21	54	-13.79
	5290 (Pk)	Horizontal	100.52	-	-
	5290 (Av)		84.40	-	-
	5350 (Pk)		61.17	74*	-12.83
	5350 (Av)		44.52	54*	-9.48
	10580 (Pk)		51.33	68.23	-16.90
	10580 (Av)		39.63	54	-14.37
	15870 (Pk)		52.59	68.23	-15.64
	15870 (Av)		40.25	54	-13.75
5530	5530 (Pk)	Vertical	92.17	-	-
	5530 (Av)		76.43	-	-
	5460 (Pk)		55.87	74*	-18.13
	5460 (Av)		38.65	54*	-15.35
	11060 (Pk)		51.79	68.23	-16.44
	11060 (Av)		40.48	54	-13.52
	16590 (Pk)		54.59	68.23	-13.64
	16590 (Av)		42.71	54	-11.29
	5530 (Pk)	Horizontal	103.02	-	-
	5530 (Av)		86.94	-	-
	5460 (Pk)		64.10	74*	-9.90
	5460 (Av)		46.55	54*	-7.45
	11060 (Pk)		53.23	68.23	-15.00
	11060 (Av)		40.39	54	-13.61
	16590 (Pk)		54.31	68.23	-13.92
	16590 (Av)		42.69	54	-11.31

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 216 von 285

Page 216 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5690	5690 (Pk)	Vertical	97.92	-	-
	5690 (Av)		81.84	-	-
	5460 (Pk)		49.20	74*	-24.80
	5460 (Av)		34.62	54*	-19.38
	11380 (Pk)		52.69	68.23	-15.54
	11380 (Av)		41.25	54	-12.75
	17070 (Pk)		56.20	68.23	-12.03
	17070 (Av)		43.54	54	-10.46
	5690 (Pk)	Horizontal	104.46	-	-
	5690 (Av)		88.56	-	-
	5460 (Pk)		55.06	74*	-18.94
	5460 (Av)		38.25	54*	-15.75
	11380 (Pk)		53.20	68.23	-15.03
	11380 (Av)		41.25	54	-12.75
	17070 (Pk)		55.82	68.23	-12.41
	17070 (Av)		43.54	54	-10.46
5775	5775 (Pk)	Vertical	101.32	-	-
	5775 (Av)		84.63	-	-
	11550 (Pk)		53.80	68.23	-14.43
	11550 (Av)		42.28	54	-11.72
	17325 (Pk)		57.55	68.23	-10.68
	17325 (Av)		44.54	54	-9.46
	5775 (Pk)	Horizontal	106.91	-	-
	5775 (Av)		90.57	-	-
	11550 (Pk)		55.05	68.23	-13.18
	11550 (Av)		42.29	54	-11.71
	17325 (Pk)		56.51	68.23	-11.72
	17325 (Av)		44.56	54	-9.44

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 217 von 285

Page 217 of 285

Modulation: 802.11ax _ HE 80MHz

Data rate: MCS11

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	89.08	-	-
	5210 (Av)		71.19	-	-
	5150 (Pk)		53.55	74*	-20.45
	5150 (Av)		33.85	54*	-20.15
	10420 (Pk)		51.74	68.23	-16.49
	10420 (Av)		39.18	54	-14.82
	15630 (Pk)		52.99	68.23	-15.24
	15630 (Av)		40.46	54	-13.54
	5210 (Pk)	Horizontal	99.93	-	-
	5210 (Av)		81.08	-	-
	5150 (Pk)		57.66	74*	-16.34
	5150 (Av)		39.26	54*	-14.74
	10420 (Pk)		51.22	68.23	-17.01
	10420 (Av)		39.19	54	-14.81
	15630 (Pk)		52.49	68.23	-15.74
	15630 (Av)		40.45	54	-13.55
5290	5290 (Pk)	Vertical	89.18	-	-
	5290 (Av)		69.05	-	-
	5350 (Pk)		50.76	74*	-23.24
	5350 (Av)		33.26	54*	-20.74
	10580 (Pk)		51.51	68.23	-16.72
	10580 (Av)		39.66	54	-14.34
	15870 (Pk)		52.20	68.23	-16.03
	15870 (Av)		40.21	54	-13.79
	5290 (Pk)	Horizontal	100.26	-	-
	5290 (Av)		79.80	-	-
	5350 (Pk)		60.02	74*	-13.98
	5350 (Av)		39.56	54*	-14.44
	10580 (Pk)		51.78	68.23	-16.45
	10580 (Av)		39.61	54	-14.39
	15870 (Pk)		52.13	68.23	-16.10
	15870 (Av)		40.21	54	-13.79
5530	5530 (Pk)	Vertical	88.44	-	-
	5530 (Av)		68.61	-	-
	5460 (Pk)		46.63	74*	-27.37
	5460 (Av)		31.75	54*	-22.25
	11060 (Pk)		52.63	68.23	-15.60
	11060 (Av)		40.44	54	-13.56
	16590 (Pk)		54.70	68.23	-13.53
	16590 (Av)		42.71	54	-11.29
	5530 (Pk)	Horizontal	95.85	-	-
	5530 (Av)		78.27	-	-
	5460 (Pk)		52.56	74*	-21.44
	5460 (Av)		35.60	54*	-18.40
	11060 (Pk)		53.33	68.23	-14.90
	11060 (Av)		40.44	54	-13.56
	16590 (Pk)		54.94	68.23	-13.29
	16590 (Av)		42.70	54	-11.30

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 218 von 285

Page 218 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5690	5690 (Pk)	Vertical	92.03	-	-
	5690 (Av)		72.10	-	-
	5460 (Pk)		43.59	74*	-30.41
	5460 (Av)		30.54	54*	-23.46
	11380 (Pk)		53.83	68.23	-14.40
	11380 (Av)		41.24	54	-12.76
	17070 (Pk)		56.80	68.23	-11.43
	17070 (Av)		43.50	54	-10.50
	5690 (Pk)	Horizontal	97.82	-	-
	5690 (Av)		77.66	-	-
	5460 (Pk)		46.03	74*	-27.97
	5460 (Av)		31.72	54*	-22.28
	11380 (Pk)		54.04	68.23	-14.19
	11380 (Av)		41.26	54	-12.74
	17070 (Pk)		55.78	68.23	-12.45
	17070 (Av)		43.53	54	-10.47
5775	5775 (Pk)	Vertical	89.10	-	-
	5775 (Av)		69.58	-	-
	11550 (Pk)		53.77	68.23	-14.46
	11550 (Av)		42.18	54	-11.82
	17325 (Pk)		56.71	68.23	-11.52
	17325 (Av)		44.51	54	-9.49
	5775 (Pk)	Horizontal	98.54	-	-
	5775 (Av)		77.93	-	-
	11550 (Pk)		54.14	68.23	-14.09
	11550 (Av)		42.20	54	-11.80
	17325 (Pk)		56.71	68.23	-11.52
	17325 (Av)		44.52	54	-9.48

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av : Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 219 von 285

Page 219 of 285

Antenna Type: FPA3020-10 (Flex/PCB) Port1 & Port2 MIMO Antenna Results

Modulation: 802.11a

Data rate: 6Mbps

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	99.82	-	-
	5180 (Av)		89.82	-	-
	5150 (Pk)		63.75	74*	-10.25
	5150 (Av)		44.05	54*	-9.95
	10360 (Pk)		51.01	68.23	-17.22
	10360 (Av)		39.46	54	-14.54
	15540 (Pk)		53.45	68.23	-14.78
	15540 (Av)		41.52	54	-12.48
	5180 (Pk)	Horizontal	103.34	-	-
	5180 (Av)		93.62	-	-
	5150 (Pk)		68.75	74*	-5.25
	5150 (Av)		50.00	54*	-4.00
	10360 (Pk)		51.68	68.23	-16.55
	10360 (Av)		39.46	54	-14.54
	15540 (Pk)		54.22	68.23	-14.01
	15540 (Av)		41.56	54	-12.44
5240	5240 (Pk)	Vertical	109.12	-	-
	5240 (Av)		96.49	-	-
	5350 (Pk)		66.56	74*	-7.44
	5350 (Av)		42.06	54*	-11.94
	10480 (Pk)		52.09	68.23	-16.14
	10480 (Av)		40.00	54	-14.00
	15720 (Pk)		52.92	68.23	-15.31
	15720 (Av)		41.31	54	-12.69
	5240 (Pk)	Horizontal	110.91	-	-
	5240 (Av)		98.67	-	-
	5350 (Pk)		68.59	74*	-5.41
	5350 (Av)		43.47	54*	-10.53
	10480 (Pk)		51.76	68.23	-16.47
	10480 (Av)		39.98	54	-14.02
	15720 (Pk)		53.74	68.23	-14.49
	15720 (Av)		41.38	54	-12.62
5260	5260 (Pk)	Vertical	109.24	-	-
	5260 (Av)		96.14	-	-
	5350 (Pk)		67.00	74*	-7.00
	5350 (Av)		45.43	54*	-8.57
	10520 (Pk)		52.23	68.23	-16.00
	10520 (Av)		40.04	54	-13.96
	15780 (Pk)		52.73	68.23	-15.50
	15780 (Av)		41.10	54	-12.90
	5260 (Pk)	Horizontal	110.33	-	-
	5260 (Av)		98.34	-	-
	5350 (Pk)		69.05	74*	-4.95
	5350 (Av)		47.37	54*	-6.63
	10520 (Pk)		52.62	68.23	-15.61
	10520 (Av)		40.04	54	-13.96
	15780 (Pk)		53.33	68.23	-14.90
	15780 (Av)		41.09	54	-12.91

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 220 von 285

Page 220 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	99.11	-	-
	5320 (Av)		89.31	-	-
	5350 (Pk)		56.32	74*	-17.68
	5350 (Av)		33.53	54*	-20.47
	10640 (Pk)		52.84	68.23	-15.39
	10640 (Av)		40.13	54	-13.87
	15960 (Pk)		54.38	68.23	-13.85
	15960 (Av)		41.73	54	-12.27
	5320 (Pk)	Horizontal	98.90	-	-
	5320 (Av)		89.13	-	-
	5350 (Pk)		55.31	74*	-18.69
	5350 (Av)		32.99	54*	-21.01
	10640 (Pk)		52.99	68.23	-15.24
	10640 (Av)		40.10	54	-13.90
	15960 (Pk)		53.90	68.23	-14.33
	15960 (Av)		41.74	54	-12.26
5500	5500 (Pk)	Vertical	99.12	-	-
	5500 (Av)		89.66	-	-
	5460 (Pk)		52.54	74*	-21.46
	5460 (Av)		33.43	54*	-20.57
	11000 (Pk)		52.68	68.23	-15.55
	11000 (Av)		40.69	54	-13.31
	16500 (Pk)		55.56	68.23	-12.67
	16500 (Av)		43.48	54	-10.52
	5500 (Pk)	Horizontal	102.05	-	-
	5500 (Av)		92.62	-	-
	5460 (Pk)		53.59	74*	-20.41
	5460 (Av)		34.51	54*	-19.49
	11000 (Pk)		53.31	68.23	-14.92
	11000 (Av)		40.76	54	-13.24
	16500 (Pk)		56.24	68.23	-11.99
	16500 (Av)		43.47	54	-10.53
5700	5700 (Pk)	Vertical	100.54	-	-
	5700 (Av)		90.78	-	-
	5460 (Pk)		42.76	74*	-31.24
	5460 (Av)		30.14	54*	-23.86
	11400 (Pk)		54.68	68.23	-13.55
	11400 (Av)		41.67	54	-12.33
	17100 (Pk)		56.50	68.23	-11.73
	17100 (Av)		44.36	54	-9.64
	5700 (Pk)	Horizontal	101.61	-	-
	5700 (Av)		92.46	-	-
	5460 (Pk)		43.00	74*	-31.00
	5460 (Av)		30.22	54*	-23.78
	11400 (Pk)		54.36	68.23	-13.87
	11400 (Av)		41.67	54	-12.33
	17100 (Pk)		56.86	68.23	-11.37
	17100 (Av)		44.37	54	-9.63

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 221 von 285

Page 221 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	105.85	-	-
	5720 (Av)		95.74	-	-
	5460 (Pk)		42.84	74*	-31.16
	5460 (Av)		30.12	54*	-23.88
	11440 (Pk)		53.34	68.23	-14.89
	11440 (Av)		41.88	54	-12.12
	17160 (Pk)		56.48	68.23	-11.75
	17160 (Av)		44.57	54	-9.43
	5720 (Pk)	Horizontal	106.83	-	-
	5720 (Av)		96.86	-	-
	5460 (Pk)		42.48	74*	-31.52
	5460 (Av)		30.33	54*	-23.67
	11440 (Pk)		53.45	68.23	-14.78
	11440 (Av)		41.90	54	-12.10
	17160 (Pk)		56.34	68.23	-11.89
	17160 (Av)		44.72	54	-9.28
5745	5715(Pk)	Vertical	68.51	78.20*	-9.69
	5725(Pk)		73.31	78.20*	-4.89
	5745 (Pk)		105.25	-	-
	5745 (Av)		94.82	-	-
	11490 (Pk)		54.78	68.23	-13.45
	11490 (Av)		42.55	54	-11.45
	17235 (Pk)		57.12	68.23	-11.11
	17235 (Av)		45.41	54	-8.59
	5715(Pk)	Horizontal	67.46	78.20*	-10.74
	5725(Pk)		72.20	78.20*	-6.00
	5745 (Pk)		103.41	-	-
	5745 (Av)		93.10	-	-
	11490 (Pk)		55.10	68.23	-13.13
	11490 (Av)		42.62	54	-11.38
	17235 (Pk)		57.43	68.23	-10.80
	17235 (Av)		45.39	54	-8.61
5825	5825 (Pk)	Vertical	104.91	-	-
	5825 (Av)		95.62	-	-
	5850 (Pk)		67.50	78.20*	-10.70
	5860 (Pk)		60.71	78.20*	-17.49
	11650 (Pk)		55.28	68.23	-12.95
	11650 (Av)		42.42	54	-11.58
	17475 (Pk)		59.94	68.23	-8.29
	17475 (Av)		47.29	54	-6.71
	5825 (Pk)	Horizontal	105.13	-	-
	5825 (Av)		94.99	-	-
	5850 (Pk)		68.36	78.20*	-9.84
	5860 (Pk)		61.65	78.20*	-16.55
	11650 (Pk)		54.05	68.23	-14.18
	11650 (Av)		42.02	54	-11.98
	17475 (Pk)		59.02	68.23	-9.21
	17475 (Av)		47.35	54	-6.65

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 222 von 285

Page 222 of 285

Modulation: 802.11a

Data rate: 54Mbps

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	100.04	-	-
	5180 (Av)		85.79	-	-
	5150 (Pk)		61.96	74*	-12.04
	5150 (Av)		38.93	54*	-15.07
	10360 (Pk)		51.77	68.23	-16.46
	10360 (Av)		39.31	54	-14.69
	15540 (Pk)		52.65	68.23	-15.58
	15540 (Av)		41.32	54	-12.68
	5180 (Pk)	Horizontal	102.49	-	-
	5180 (Av)		87.83	-	-
	5150 (Pk)		65.54	74*	-8.46
	5150 (Av)		41.33	54*	-12.67
	10360 (Pk)		52.10	68.23	-16.13
	10360 (Av)		39.44	54	-14.56
	15540 (Pk)		53.86	68.23	-14.37
	15540 (Av)		41.49	54	-12.51
5240	5240 (Pk)	Vertical	108.61	-	-
	5240 (Av)		91.01	-	-
	5350 (Pk)		65.28	74*	-8.72
	5350 (Av)		41.97	54*	-12.03
	10480 (Pk)		52.12	68.23	-16.11
	10480 (Av)		39.96	54	-14.04
	15720 (Pk)		52.95	68.23	-15.28
	15720 (Av)		41.13	54	-12.87
	5240 (Pk)	Horizontal	109.75	-	-
	5240 (Av)		92.87	-	-
	5350 (Pk)		65.92	74*	-8.08
	5350 (Av)		42.45	54*	-11.55
	10480 (Pk)		52.69	68.23	-15.54
	10480 (Av)		39.86	54	-14.14
	15720 (Pk)		53.11	68.23	-15.12
	15720 (Av)		41.13	54	-12.87
5260	5260 (Pk)	Vertical	107.76	-	-
	5260 (Av)		90.09	-	-
	5350 (Pk)		68.80	74*	-5.20
	5350 (Av)		45.08	54*	-8.92
	10520 (Pk)		51.64	68.23	-16.59
	10520 (Av)		39.94	54	-14.06
	15780 (Pk)		52.03	68.23	-16.20
	15780 (Av)		40.94	54	-13.06
	5260 (Pk)	Horizontal	109.53	-	-
	5260 (Av)		92.02	-	-
	5350 (Pk)		69.11	74*	-4.89
	5350 (Av)		45.30	54*	-8.70
	10520 (Pk)		51.36	68.23	-16.87
	10520 (Av)		39.90	54	-14.10
	15780 (Pk)		53.05	68.23	-15.18
	15780 (Av)		40.95	54	-13.05

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 223 von 285

Page 223 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	98.98	-	-
	5320 (Av)		85.00	-	-
	5350 (Pk)		56.72	74*	-17.28
	5350 (Av)		32.71	54*	-21.29
	10640 (Pk)		52.30	68.23	-15.93
	10640 (Av)		40.06	54	-13.94
	15960 (Pk)		53.86	68.23	-14.37
	15960 (Av)		41.69	54	-12.31
	5320 (Pk)	Horizontal	101.01	-	-
	5320 (Av)		86.40	-	-
	5350 (Pk)		58.46	74*	-15.54
	5350 (Av)		33.69	54*	-20.31
	10640 (Pk)		52.08	68.23	-16.15
	10640 (Av)		39.96	54	-14.04
	15960 (Pk)		52.97	68.23	-15.26
	15960 (Av)		41.62	54	-12.38
5500	5500 (Pk)	Vertical	99.47	-	-
	5500 (Av)		84.22	-	-
	5460 (Pk)		49.58	74*	-24.42
	5460 (Av)		32.73	54*	-21.27
	11000 (Pk)		53.00	68.23	-15.23
	11000 (Av)		40.69	54	-13.31
	16500 (Pk)		55.00	68.23	-13.23
	16500 (Av)		43.39	54	-10.61
	5500 (Pk)	Horizontal	99.65	-	-
	5500 (Av)		85.14	-	-
	5460 (Pk)		50.76	74*	-23.24
	5460 (Av)		33.00	54*	-21.00
	11000 (Pk)		52.55	68.23	-15.68
	11000 (Av)		40.63	54	-13.37
	16500 (Pk)		55.54	68.23	-12.69
	16500 (Av)		43.41	54	-10.59
5700	5700 (Pk)	Vertical	99.82	-	-
	5700 (Av)		85.18	-	-
	5460 (Pk)		42.96	74*	-31.04
	5460 (Av)		30.17	54*	-23.83
	11400 (Pk)		53.28	68.23	-14.95
	11400 (Av)		41.61	54	-12.39
	17100 (Pk)		56.03	68.23	-12.20
	17100 (Av)		44.21	54	-9.79
	5700 (Pk)	Horizontal	98.40	-	-
	5700 (Av)		83.32	-	-
	5460 (Pk)		43.59	74*	-30.41
	5460 (Av)		30.07	54*	-23.93
	11400 (Pk)		53.28	68.23	-14.95
	11400 (Av)		41.62	54	-12.38
	17100 (Pk)		55.93	68.23	-12.30
	17100 (Av)		44.25	54	-9.75

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 224 von 285

Page 224 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	103.59	-	-
	5720 (Av)		88.82	-	-
	5460 (Pk)		42.69	74*	-31.31
	5460 (Av)		30.12	54*	-23.88
	11440 (Pk)		53.05	68.23	-15.18
	11440 (Av)		41.54	54	-12.46
	17160 (Pk)		56.60	68.23	-11.63
	17160 (Av)		44.48	54	-9.52
	5720 (Pk)	Horizontal	103.40	-	-
	5720 (Av)		88.62	-	-
	5460 (Pk)		43.15	74*	-30.85
	5460 (Av)		30.08	54*	-23.92
	11440 (Pk)		53.81	68.23	-14.42
	11440 (Av)		41.60	54	-12.40
	17160 (Pk)		55.96	68.23	-12.27
	17160 (Av)		44.52	54	-9.48
5745	5715(Pk)	Vertical	66.65	78.20*	-11.55
	5725(Pk)		72.79	78.20*	-5.41
	5745 (Pk)		104.06	-	-
	5745 (Av)		89.96	-	-
	11490 (Pk)		54.38	68.23	-13.85
	11490 (Av)		42.46	54	-11.54
	17235 (Pk)		57.04	68.23	-11.19
	17235 (Av)		45.41	54	-8.59
	5715(Pk)	Horizontal	66.37	78.20*	-11.83
	5725(Pk)		71.80	78.20*	-6.40
	5745 (Pk)		102.13	-	-
	5745 (Av)		87.73	-	-
	11490 (Pk)		53.92	68.23	-14.31
	11490 (Av)		42.46	54	-11.54
	17235 (Pk)		56.92	68.23	-11.31
	17235 (Av)		45.37	54	-8.63
5825	5825 (Pk)	Vertical	105.79	-	-
	5825 (Av)		91.03	-	-
	5850 (Pk)		65.92	78.20*	-12.28
	5860 (Pk)		61.00	78.20*	-17.20
	11650 (Pk)		54.42	68.23	-13.81
	11650 (Av)		41.94	54	-12.06
	17475 (Pk)		59.17	68.23	-9.06
	17475 (Av)		47.26	54	-6.74
	5825 (Pk)	Horizontal	102.45	-	-
	5825 (Av)		87.60	-	-
	5850 (Pk)		62.99	78.20*	-15.21
	5860 (Pk)		58.76	78.20*	-19.44
	11650 (Pk)		53.08	68.23	-15.15
	11650 (Av)		41.87	54	-12.13
	17475 (Pk)		58.97	68.23	-9.26
	17475 (Av)		47.19	54	-6.81

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 225 von 285

Page 225 of 285

Modulation: 802.11n _ HT 20MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	96.92	-	-
	5180 (Av)		86.71	-	-
	5150 (Pk)		63.60	74*	-10.40
	5150 (Av)		37.08	54*	-16.92
	10360 (Pk)		51.24	68.23	-16.99
	10360 (Av)		39.32	54	-14.68
	15540 (Pk)		53.14	68.23	-15.09
	15540 (Av)		41.37	54	-12.63
	5180 (Pk)	Horizontal	99.28	-	-
	5180 (Av)		89.68	-	-
	5150 (Pk)		63.27	74*	-10.73
	5150 (Av)		38.82	54*	-15.18
	10360 (Pk)		51.76	68.23	-16.47
	10360 (Av)		39.31	54	-14.69
	15540 (Pk)		52.52	68.23	-15.71
	15540 (Av)		41.20	54	-12.80
5240	5240 (Pk)	Vertical	106.56	-	-
	5240 (Av)		93.64	-	-
	5350 (Pk)		65.58	74*	-8.42
	5350 (Av)		43.12	54*	-10.88
	10480 (Pk)		51.73	68.23	-16.50
	10480 (Av)		39.95	54	-14.05
	15720 (Pk)		53.55	68.23	-14.68
	15720 (Av)		41.18	54	-12.82
	5240 (Pk)	Horizontal	105.54	-	-
	5240 (Av)		92.77	-	-
	5350 (Pk)		64.37	74*	-9.63
	5350 (Av)		41.90	54*	-12.10
	10480 (Pk)		51.25	68.23	-16.98
	10480 (Av)		39.90	54	-14.10
	15720 (Pk)		52.38	68.23	-15.85
	15720 (Av)		41.23	54	-12.77
5260	5260 (Pk)	Vertical	106.90	-	-
	5260 (Av)		93.40	-	-
	5350 (Pk)		67.88	74*	-6.12
	5350 (Av)		45.01	54*	-8.99
	10520 (Pk)		52.27	68.23	-15.96
	10520 (Av)		39.92	54	-14.08
	15780 (Pk)		52.69	68.23	-15.54
	15780 (Av)		40.97	54	-13.03
	5260 (Pk)	Horizontal	106.56	-	-
	5260 (Av)		45.16	-	-
	5350 (Pk)		67.76	74*	-6.24
	5350 (Av)		45.16	54*	-8.84
	10520 (Pk)		51.78	68.23	-16.45
	10520 (Av)		39.95	54	-14.05
	15780 (Pk)		53.10	68.23	-15.13
	15780 (Av)		40.97	54	-13.03

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 226 von 285

Page 226 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	97.62	-	-
	5320 (Av)		87.74	-	-
	5350 (Pk)		60.23	74*	-13.77
	5350 (Av)		35.39	54*	-18.61
	10640 (Pk)		52.14	68.23	-16.09
	10640 (Av)		40.11	54	-13.89
	15960 (Pk)		53.49	68.23	-14.74
	15960 (Av)		41.68	54	-12.32
	5320 (Pk)	Horizontal	97.71	-	-
	5320 (Av)		88.03	-	-
	5350 (Pk)		58.89	74*	-15.11
	5350 (Av)		34.83	54*	-19.17
	10640 (Pk)		51.77	68.23	-16.46
	10640 (Av)		40.04	54	-13.96
	15960 (Pk)		53.75	68.23	-14.48
	15960 (Av)		41.69	54	-12.31
5500	5500 (Pk)	Vertical	98.75	-	-
	5500 (Av)		89.28	-	-
	5460 (Pk)		54.85	74*	-19.15
	5460 (Av)		33.16	54*	-20.84
	11000 (Pk)		52.76	68.23	-15.47
	11000 (Av)		40.69	54	-13.31
	16500 (Pk)		55.27	68.23	-12.96
	16500 (Av)		43.42	54	-10.58
	5500 (Pk)	Horizontal	99.51	-	-
	5500 (Av)		89.34	-	-
	5460 (Pk)		55.16	74*	-18.84
	5460 (Av)		33.53	54*	-20.47
	11000 (Pk)		53.23	68.23	-15.00
	11000 (Av)		40.67	54	-13.33
	16500 (Pk)		56.05	68.23	-12.18
	16500 (Av)		43.37	54	-10.63
5700	5700 (Pk)	Vertical	98.20	-	-
	5700 (Av)		88.26	-	-
	5460 (Pk)		42.68	74*	-31.32
	5460 (Av)		30.24	54*	-23.76
	11400 (Pk)		53.14	68.23	-15.09
	11400 (Av)		41.55	54	-12.45
	17100 (Pk)		55.31	68.23	-12.92
	17100 (Av)		44.28	54	-9.72
	5700 (Pk)	Horizontal	99.00	-	-
	5700 (Av)		88.67	-	-
	5460 (Pk)		43.14	74*	-30.86
	5460 (Av)		30.36	54*	-23.64
	11400 (Pk)		54.12	68.23	-14.11
	11400 (Av)		41.63	54	-12.37
	17100 (Pk)		56.22	68.23	-12.01
	17100 (Av)		44.33	54	-9.67

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av : Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 227 von 285

Page 227 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	105.10	-	-
	5720 (Av)		94.96	-	-
	5460 (Pk)		43.31	74*	-30.69
	5460 (Av)		30.26	54*	-23.74
	11440 (Pk)		53.47	68.23	-14.76
	11440 (Av)		41.54	54	-12.46
	17160 (Pk)		56.90	68.23	-11.33
	17160 (Av)		44.47	54	-9.53
	5720 (Pk)	Horizontal	105.83	-	-
	5720 (Av)		95.77	-	-
	5460 (Pk)		43.07	74*	-30.93
	5460 (Av)		30.40	54*	-23.60
	11440 (Pk)		53.49	68.23	-14.74
	11440 (Av)		41.57	54	-12.43
	17160 (Pk)		55.97	68.23	-12.26
	17160 (Av)		44.49	54	-9.51
5745	5715(Pk)	Vertical	67.79	-	-10.41
	5725(Pk)		73.16	-	-5.04
	5745 (Pk)		103.21	74*	-
	5745 (Av)		93.61	54*	-
	11490 (Pk)		54.37	68.23	-13.86
	11490 (Av)		42.41	54	-11.59
	17235 (Pk)		57.22	68.23	-11.01
	17235 (Av)		45.36	54	-8.64
	5715(Pk)	Horizontal	69.76	-	-8.44
	5725(Pk)		74.90	-	-3.30
	5745 (Pk)		104.41	74*	-
	5745 (Av)		93.89	54*	-
	11490 (Pk)		54.24	68.23	-13.99
	11490 (Av)		42.46	54	-11.54
	17235 (Pk)		56.83	68.23	-11.40
	17235 (Av)		45.35	54	-8.65
5825	5825 (Pk)	Vertical	106.28	-	-
	5825 (Av)		95.64	-	-
	5850 (Pk)		74.21	74*	-3.99
	5860 (Pk)		67.22	54*	-10.98
	11650 (Pk)		55.19	68.23	-13.04
	11650 (Av)		42.47	54	-11.53
	17475 (Pk)		59.58	68.23	-8.65
	17475 (Av)		47.21	54	-6.79
	5825 (Pk)	Horizontal	106.51	-	-
	5825 (Av)		96.22	-	-
	5850 (Pk)		72.45	74*	-5.75
	5860 (Pk)		67.29	54*	-10.91
	11650 (Pk)		53.83	68.23	-14.40
	11650 (Av)		42.18	54	-11.82
	17475 (Pk)		60.66	68.23	-7.57
	17475 (Av)		47.22	54	-6.78

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 228 von 285

Page 228 of 285

Modulation: 802.11n _ HT 20MHz

Data rate: MCS7

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	101.96	-	-
	5180 (Av)		87.08	-	-
	5150 (Pk)		61.38	74*	-12.62
	5150 (Av)		37.92	54*	-16.08
	10360 (Pk)		51.05	68.23	-17.18
	10360 (Av)		39.26	68.23	-14.74
	15540 (Pk)		53.01	68.23	-15.22
	15540 (Av)		41.36	68.23	-12.64
	5180 (Pk)	Horizontal	101.83	-	-
	5180 (Av)		87.03	-	-
	5150 (Pk)		62.24	74*	-11.76
	5150 (Av)		38.05	54*	-15.95
	10360 (Pk)		51.84	68.23	-16.39
	10360 (Av)		39.40	68.23	-14.60
	15540 (Pk)		53.60	68.23	-14.63
	15540 (Av)		41.42	68.23	-12.58
5240	5240 (Pk)	Vertical	103.55	-	-
	5240 (Av)		87.22	-	-
	5350 (Pk)		47.68	74*	-26.32
	5350 (Av)		31.81	54*	-22.19
	10480 (Pk)		52.04	68.23	-16.19
	10480 (Av)		39.85	68.23	-14.15
	15720 (Pk)		53.11	68.23	-15.12
	15720 (Av)		41.14	68.23	-12.86
	5240 (Pk)	Horizontal	106.61	-	-
	5240 (Av)		91.19	-	-
	5350 (Pk)		49.53	74*	-24.47
	5350 (Av)		33.59	54*	-20.41
	10480 (Pk)		51.45	68.23	-16.78
	10480 (Av)		39.92	68.23	-14.08
	15720 (Pk)		53.58	68.23	-14.65
	15720 (Av)		41.20	68.23	-12.80
5260	5260 (Pk)	Vertical	101.06	-	-
	5260 (Av)		86.31	-	-
	5350 (Pk)		45.12	74*	-28.88
	5350 (Av)		31.41	54*	-22.59
	10520 (Pk)		51.61	68.23	-16.62
	10520 (Av)		39.89	68.23	-14.11
	15780 (Pk)		52.19	68.23	-16.04
	15780 (Av)		40.88	68.23	-13.12
	5260 (Pk)	Horizontal	104.86	-	-
	5260 (Av)		90.07	-	-
	5350 (Pk)		47.74	74*	-26.26
	5350 (Av)		33.26	54*	-20.74
	10520 (Pk)		52.35	68.23	-15.88
	10520 (Av)		39.91	68.23	-14.09
	15780 (Pk)		52.83	68.23	-15.40
	15780 (Av)		40.92	68.23	-13.08

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 229 von 285

Page 229 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	97.42	-	-
	5320 (Av)		83.00	-	-
	5350 (Pk)		59.04	74*	-14.96
	5350 (Av)		32.47	54*	-21.53
	10640 (Pk)		52.19	68.23	-16.04
	10640 (Av)		40.04	68.23	-13.96
	15960 (Pk)		53.62	68.23	-14.61
	15960 (Av)		41.72	68.23	-12.28
	5320 (Pk)	Horizontal	100.49	-	-
	5320 (Av)		85.79	-	-
	5350 (Pk)		60.36	74*	-13.64
	5350 (Av)		34.16	54*	-19.84
	10640 (Pk)		52.28	68.23	-15.95
	10640 (Av)		40.05	68.23	-13.95
	15960 (Pk)		53.35	68.23	-14.88
	15960 (Av)		41.69	68.23	-12.31
5500	5500 (Pk)	Vertical	97.58	-	-
	5500 (Av)		83.19	-	-
	5460 (Pk)		50.88	74*	-23.12
	5460 (Av)		32.52	54*	-21.48
	11000 (Pk)		52.99	68.23	-15.24
	11000 (Av)		40.64	68.23	-13.36
	16500 (Pk)		55.17	68.23	-13.06
	16500 (Av)		43.37	68.23	-10.63
	5500 (Pk)	Horizontal	100.37	-	-
	5500 (Av)		85.51	-	-
	5460 (Pk)		52.29	74*	-21.71
	5460 (Av)		33.11	54*	-20.89
	11000 (Pk)		52.15	68.23	-16.08
	11000 (Av)		40.67	68.23	-13.33
	16500 (Pk)		55.31	68.23	-12.92
	16500 (Av)		43.38	68.23	-10.62
5700	5700 (Pk)	Vertical	98.08	-	-
	5700 (Av)		83.48	-	-
	5460 (Pk)		43.34	74*	-30.66
	5460 (Av)		30.03	54*	-23.97
	11400 (Pk)		53.98	68.23	-14.25
	11400 (Av)		41.59	68.23	-12.41
	17100 (Pk)		57.08	68.23	-11.15
	17100 (Av)		44.30	68.23	-9.70
	5700 (Pk)	Horizontal	99.16	-	-
	5700 (Av)		84.19	-	-
	5460 (Pk)		43.88	74*	-30.12
	5460 (Av)		30.07	54*	-23.93
	11400 (Pk)		53.59	68.23	-14.64
	11400 (Av)		41.66	68.23	-12.34
	17100 (Pk)		55.77	68.23	-12.46
	17100 (Av)		44.25	68.23	-9.75

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 230 von 285

Page 230 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	103.02	-	-
	5720 (Av)		87.67	-	-
	5460 (Pk)		42.40	74*	-31.60
	5460 (Av)		30.03	54*	-23.97
	11440 (Pk)		53.21	68.23	-15.02
	11440 (Av)		41.48	54	-12.52
	17160 (Pk)		56.08	68.23	-12.15
	17160 (Av)		44.46	54	-9.54
	5720 (Pk)	Horizontal	104.21	-	-
	5720 (Av)		89.08	-	-
	5460 (Pk)		42.50	74*	-31.50
	5460 (Av)		30.06	54*	-23.94
	11440 (Pk)		53.06	68.23	-15.17
	11440 (Av)		41.48	54	-12.52
	17160 (Pk)		56.10	68.23	-12.13
	17160 (Av)		44.43	54	-9.57
5745	5715(Pk)	Vertical	69.50	78.20*	-8.70
	5725(Pk)		73.00	78.20*	-5.20
	5745 (Pk)		103.77	-	-
	5745 (Av)		88.17	-	-
	11490 (Pk)		53.03	68.23	-15.20
	11490 (Av)		42.36	54	-11.64
	17235 (Pk)		56.37	68.23	-11.86
	17235 (Av)		45.30	54	-8.70
	5715(Pk)	Horizontal	70.07	78.20*	-8.13
	5725(Pk)		73.57	78.20*	-4.63
	5745 (Pk)		104.15	-	-
	5745 (Av)		88.59	-	-
	11490 (Pk)		54.32	68.23	-13.91
	11490 (Av)		42.46	54	-11.54
	17235 (Pk)		56.83	68.23	-11.40
	17235 (Av)		45.26	54	-8.74
5825	5825 (Pk)	Vertical	104.84	-	-
	5825 (Av)		89.18	-	-
	5850 (Pk)		67.75	78.20*	-10.45
	5860 (Pk)		58.47	78.20*	-19.73
	11650 (Pk)		54.52	68.23	-13.71
	11650 (Av)		41.78	54	-12.22
	17475 (Pk)		60.03	68.23	-8.20
	17475 (Av)		47.21	54	-6.79
	5825 (Pk)	Horizontal	104.23	-	-
	5825 (Av)		89.18	-	-
	5850 (Pk)		67.71	78.20*	-10.49
	5860 (Pk)		57.86	78.20*	-20.34
	11650 (Pk)		53.46	68.23	-14.77
	11650 (Av)		41.78	54	-12.22
	17475 (Pk)		58.52	68.23	-9.71
	17475 (Av)		47.21	54	-6.79

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 231 von 285

Page 231 of 285

Modulation: 802.11ac _ VHT 20MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	97.67	-	-
	5180 (Av)		87.67	-	-
	5150 (Pk)		62.51	74*	-11.49
	5150 (Av)		37.98	54*	-16.02
	10360 (Pk)		52.59	68.23	-15.64
	10360 (Av)		39.37	54	-14.63
	15540 (Pk)		53.64	68.23	-14.59
	15540 (Av)		41.31	54	-12.69
	5180 (Pk)	Horizontal	99.25	-	-
	5180 (Av)		89.39	-	-
	5150 (Pk)		63.92	74*	-10.08
	5150 (Av)		38.56	54*	-15.44
	10360 (Pk)		50.86	68.23	-17.37
	10360 (Av)		39.29	54	-14.71
	15540 (Pk)		52.79	68.23	-15.44
	15540 (Av)		41.33	54	-12.67
5240	5240 (Pk)	Vertical	108.13	-	-
	5240 (Av)		94.20	-	-
	5350 (Pk)		64.50	74*	-9.50
	5350 (Av)		43.56	54*	-10.44
	10480 (Pk)		51.47	68.23	-16.76
	10480 (Av)		39.80	54	-14.20
	15720 (Pk)		53.57	68.23	-14.66
	15720 (Av)		41.16	54	-12.84
	5240 (Pk)	Horizontal	110.78	-	-
	5240 (Av)		98.30	-	-
	5350 (Pk)		68.01	74*	-5.99
	5350 (Av)		46.07	54*	-7.93
	10480 (Pk)		51.24	68.23	-16.99
	10480 (Av)		39.93	54	-14.07
	15720 (Pk)		53.76	68.23	-14.47
	15720 (Av)		41.19	54	-12.81
5260	5260 (Pk)	Vertical	107.83	-	-
	5260 (Av)		93.78	-	-
	5350 (Pk)		69.02	74*	-4.98
	5350 (Av)		45.65	54*	-8.35
	10520 (Pk)		53.16	68.23	-15.07
	10520 (Av)		39.88	54	-14.12
	15780 (Pk)		52.54	68.23	-15.69
	15780 (Av)		40.92	54	-13.08
	5260 (Pk)	Horizontal	110.05	-	-
	5260 (Av)		97.61	-	-
	5350 (Pk)		70.24	74*	-3.76
	5350 (Av)		48.87	54*	-5.13
	10520 (Pk)		51.96	68.23	-16.27
	10520 (Av)		39.94	54	-14.06
	15780 (Pk)		52.90	68.23	-15.33
	15780 (Av)		40.98	54	-13.02

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 232 von 285

Page 232 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	97.85	-	-
	5320 (Av)		88.22	-	-
	5350 (Pk)		59.78	74*	-14.22
	5350 (Av)		33.19	54*	-20.81
	10640 (Pk)		51.70	68.23	-16.53
	10640 (Av)		40.02	54	-13.98
	15960 (Pk)		53.14	68.23	-15.09
	15960 (Av)		41.65	54	-12.35
	5320 (Pk)	Horizontal	101.89	-	-
	5320 (Av)		92.11	-	-
	5350 (Pk)		62.73	74*	-11.27
	5350 (Av)		35.98	54*	-18.02
	10640 (Pk)		52.50	68.23	-15.73
	10640 (Av)		40.09	54	-13.91
	15960 (Pk)		53.37	68.23	-14.86
	15960 (Av)		41.66	54	-12.34
5500	5500 (Pk)	Vertical	98.12	-	-
	5500 (Av)		88.44	-	-
	5460 (Pk)		52.12	74*	-21.88
	5460 (Av)		32.80	54*	-21.20
	11000 (Pk)		52.17	68.23	-16.06
	11000 (Av)		40.63	54	-13.37
	16500 (Pk)		55.14	68.23	-13.09
	16500 (Av)		43.38	54	-10.62
	5500 (Pk)	Horizontal	101.07	-	-
	5500 (Av)		90.77	-	-
	5460 (Pk)		54.50	74*	-19.50
	5460 (Av)		35.31	54*	-18.69
	11000 (Pk)		53.18	68.23	-15.05
	11000 (Av)		40.67	54	-13.33
	16500 (Pk)		55.47	68.23	-12.76
	16500 (Av)		43.28	54	-10.72
5700	5700 (Pk)	Vertical	98.01	-	-
	5700 (Av)		88.13	-	-
	5460 (Pk)		43.01	74*	-30.99
	5460 (Av)		29.99	54*	-24.01
	11400 (Pk)		54.45	68.23	-13.78
	11400 (Av)		41.56	54	-12.44
	17100 (Pk)		55.83	68.23	-12.40
	17100 (Av)		44.30	54	-9.70
	5700 (Pk)	Horizontal	99.82	-	-
	5700 (Av)		89.71	-	-
	5460 (Pk)		42.77	74*	-31.23
	5460 (Av)		30.10	54*	-23.90
	11400 (Pk)		52.52	68.23	-15.71
	11400 (Av)		41.53	54	-12.47
	17100 (Pk)		56.18	68.23	-12.05
	17100 (Av)		44.36	54	-9.64

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av : Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 233 von 285

Page 233 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	105.83	-	-
	5720 (Av)		95.75	-	-
	5460 (Pk)		43.89	74*	-30.11
	5460 (Av)		30.07	54*	-23.93
	11440 (Pk)		52.96	68.23	-15.27
	11440 (Av)		41.60	54	-12.40
	17160 (Pk)		56.01	68.23	-12.22
	17160 (Av)		44.45	54	-9.55
	5720 (Pk)	Horizontal	106.95	-	-
	5720 (Av)		97.02	-	-
	5460 (Pk)		43.12	74*	-30.88
	5460 (Av)		30.29	54*	-23.71
	11440 (Pk)		53.72	68.23	-14.51
	11440 (Av)		41.61	54	-12.39
	17160 (Pk)		56.53	68.23	-11.70
	17160 (Av)		44.56	54	-9.44
5745	5715(Pk)	Vertical	102.28	78.20*	24.08
	5725(Pk)		92.53	78.20*	14.33
	5745 (Pk)		72.26	-	-
	5745 (Av)		66.90	-	-
	11490 (Pk)		54.62	68.23	-13.61
	11490 (Av)		42.42	54	-11.58
	17235 (Pk)		56.35	68.23	-11.88
	17235 (Av)		45.34	54	-8.66
	5715(Pk)	Horizontal	103.40	78.20*	25.20
	5725(Pk)		92.99	78.20*	14.79
	5745 (Pk)		74.24	-	-
	5745 (Av)		68.59	-	-
	11490 (Pk)		54.09	68.23	-14.14
	11490 (Av)		42.40	54	-11.60
	17235 (Pk)		56.87	68.23	-11.36
	17235 (Av)		45.36	54	-8.64
5825	5825 (Pk)	Vertical	106.81	-	-
	5825 (Av)		96.45	-	-
	5850 (Pk)		76.02	78.20*	-2.18
	5860 (Pk)		70.11	78.20*	-8.09
	11650 (Pk)		56.02	68.23	-12.21
	11650 (Av)		42.68	54	-11.32
	17475 (Pk)		59.38	68.23	-8.85
	17475 (Av)		47.20	54	-6.80
	5825 (Pk)	Horizontal	107.08	-	-
	5825 (Av)		96.86	-	-
	5850 (Pk)		75.90	78.20*	-2.30
	5860 (Pk)		69.04	78.20*	-9.16
	11650 (Pk)		55.23	68.23	-13.00
	11650 (Av)		42.35	54	-11.65
	17475 (Pk)		58.67	68.23	-9.56
	17475 (Av)		47.15	54	-6.85

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 234 von 285

Page 234 of 285

Modulation: 802.11ac _ VHT 20MHz

Data rate: MCS9

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	97.58	-	-
	5180 (Av)		82.36	-	-
	5150 (Pk)		56.88	74*	-17.12
	5150 (Av)		34.93	54*	-19.07
	10360 (Pk)		50.96	68.23	-17.27
	10360 (Av)		39.31	54	-14.69
	15540 (Pk)		54.01	68.23	-14.22
	15540 (Av)		41.34	54	-12.66
	5180 (Pk)	Horizontal	100.83	-	-
	5180 (Av)		85.37	-	-
	5150 (Pk)		60.93	74*	-13.07
	5150 (Av)		36.40	54*	-17.60
	10360 (Pk)		52.25	68.23	-15.98
	10360 (Av)		39.35	54	-14.65
	15540 (Pk)		54.01	68.23	-14.22
	15540 (Av)		41.33	54	-12.67
5240	5240 (Pk)	Vertical	100.15	-	-
	5240 (Av)		84.80	-	-
	5350 (Pk)		44.64	74*	-29.36
	5350 (Av)		30.92	54*	-23.08
	10480 (Pk)		51.79	68.23	-16.44
	10480 (Av)		39.90	54	-14.10
	15720 (Pk)		52.81	68.23	-15.42
	15720 (Av)		41.17	54	-12.83
	5240 (Pk)	Horizontal	104.14	-	-
	5240 (Av)		88.50	-	-
	5350 (Pk)		46.60	74*	-27.40
	5350 (Av)		32.57	54*	-21.43
	10480 (Pk)		51.76	68.23	-16.47
	10480 (Av)		39.93	54	-14.07
	15720 (Pk)		53.95	68.23	-14.28
	15720 (Av)		41.18	54	-12.82
5260	5260 (Pk)	Vertical	99.66	-	-
	5260 (Av)		84.31	-	-
	5350 (Pk)		44.75	74*	-29.25
	5350 (Av)		30.87	54*	-23.13
	10520 (Pk)		52.28	68.23	-15.95
	10520 (Av)		39.94	54	-14.06
	15780 (Pk)		52.91	68.23	-15.32
	15780 (Av)		41.03	54	-12.97
	5260 (Pk)	Horizontal	102.79	-	-
	5260 (Av)		87.34	-	-
	5350 (Pk)		47.30	74*	-26.70
	5350 (Av)		31.52	54*	-22.48
	10520 (Pk)		52.08	68.23	-16.15
	10520 (Av)		39.95	54	-14.05
	15780 (Pk)		52.96	68.23	-15.27
	15780 (Av)		41.01	54	-12.99

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 235 von 285

Page 235 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	98.03	-	-
	5320 (Av)		82.73	-	-
	5350 (Pk)		59.63	74*	-14.37
	5350 (Av)		32.53	54*	-21.47
	10640 (Pk)		52.26	68.23	-15.97
	10640 (Av)		39.98	54	-14.02
	15960 (Pk)		53.65	68.23	-14.58
	15960 (Av)		41.63	54	-12.37
	5320 (Pk)	Horizontal	102.90	-	-
	5320 (Av)		86.50	-	-
	5350 (Pk)		62.21	74*	-11.79
	5350 (Av)		34.31	54*	-19.69
	10640 (Pk)		52.12	68.23	-16.11
	10640 (Av)		40.08	54	-13.92
	15960 (Pk)		52.75	68.23	-15.48
	15960 (Av)		41.70	54	-12.30
5500	5500 (Pk)	Vertical	98.47	-	-
	5500 (Av)		83.49	-	-
	5460 (Pk)		52.47	74*	-21.53
	5460 (Av)		32.47	54*	-21.53
	11000 (Pk)		52.50	68.23	-15.73
	11000 (Av)		40.73	54	-13.27
	16500 (Pk)		54.92	68.23	-13.31
	16500 (Av)		43.42	54	-10.58
	5500 (Pk)	Horizontal	101.64	-	-
	5500 (Av)		86.29	-	-
	5460 (Pk)		53.63	74*	-20.37
	5460 (Av)		35.05	54*	-18.95
	11000 (Pk)		52.07	68.23	-16.16
	11000 (Av)		40.72	54	-13.28
	16500 (Pk)		55.72	68.23	-12.51
	16500 (Av)		43.45	54	-10.55
5700	5700 (Pk)	Vertical	98.22	-	-
	5700 (Av)		83.18	-	-
	5460 (Pk)		42.89	74*	-31.11
	5460 (Av)		29.95	54*	-24.05
	11400 (Pk)		52.55	68.23	-15.68
	11400 (Av)		41.52	54	-12.48
	17100 (Pk)		55.55	68.23	-12.68
	17100 (Av)		44.28	54	-9.72
	5700 (Pk)	Horizontal	99.87	-	-
	5700 (Av)		83.93	-	-
	5460 (Pk)		42.25	74*	-31.75
	5460 (Av)		30.16	54*	-23.84
	11400 (Pk)		53.07	68.23	-15.16
	11400 (Av)		41.56	54	-12.44
	17100 (Pk)		56.83	68.23	-11.40
	17100 (Av)		44.29	54	-9.71

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 236 von 285

Page 236 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	101.19	-	-
	5720 (Av)		85.09	-	-
	5460 (Pk)		43.30	74*	-30.70
	5460 (Av)		30.14	54*	-23.86
	11440 (Pk)		53.02	68.23	-15.21
	11440 (Av)		41.48	54	-12.52
	17160 (Pk)		57.01	68.23	-11.22
	17160 (Av)		44.42	54	-9.58
	5720 (Pk)	Horizontal	102.62	-	-
	5720 (Av)		86.38	-	-
	5460 (Pk)		42.65	74*	-31.35
	5460 (Av)		30.17	54*	-23.83
	11440 (Pk)		53.16	68.23	-15.07
	11440 (Av)		41.47	54	-12.53
	17160 (Pk)		56.01	68.23	-12.22
	17160 (Av)		44.42	54	-9.58
5745	5715(Pk)	Vertical	55.95	78.20*	-22.25
	5725(Pk)		64.54	78.20*	-13.66
	5745 (Pk)		101.65	-	-
	5745 (Av)		85.62	-	-
	11490 (Pk)		53.50	68.23	-14.73
	11490 (Av)		42.41	54	-11.59
	17235 (Pk)		57.39	68.23	-10.84
	17235 (Av)		45.29	54	-8.71
	5715(Pk)	Horizontal	57.83	78.20*	-20.37
	5725(Pk)		64.30	78.20*	-13.90
	5745 (Pk)		101.70	-	-
	5745 (Av)		85.48	-	-
	11490 (Pk)		53.52	68.23	-14.71
	11490 (Av)		42.40	54	-11.60
	17235 (Pk)		56.16	68.23	-12.07
	17235 (Av)		45.27	54	-8.73
5825	5825 (Pk)	Vertical	103.79	-	-
	5825 (Av)		87.64	-	-
	5850 (Pk)		60.46	78.20*	-17.74
	5860 (Pk)		59.60	78.20*	-18.60
	11650 (Pk)		53.91	68.23	-14.32
	11650 (Av)		41.68	54	-12.32
	17475 (Pk)		58.30	68.23	-9.93
	17475 (Av)		47.16	54	-6.84
	5825 (Pk)	Horizontal	101.61	-	-
	5825 (Av)		85.88	-	-
	5850 (Pk)		57.92	78.20*	-20.28
	5860 (Pk)		57.73	78.20*	-20.47
	11650 (Pk)		53.39	68.23	-14.84
	11650 (Av)		41.62	54	-12.38
	17475 (Pk)		58.97	68.23	-9.26
	17475 (Av)		47.19	54	-6.81

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 237 von 285

Page 237 of 285

Modulation: 802.11ax_ HE 20MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	102.45	-	-
	5180 (Av)		89.39	-	-
	5150 (Pk)		59.86	74*	-14.14
	5150 (Av)		37.32	54*	-16.68
	10360 (Pk)		51.68	68.23	-16.55
	10360 (Av)		39.36	54	-14.64
	15540 (Pk)		53.59	68.23	-14.64
	15540 (Av)		41.38	54	-12.62
	5180 (Pk)	Horizontal	105.12	-	-
	5180 (Av)		92.12	-	-
	5150 (Pk)		61.33	74*	-12.67
	5150 (Av)		39.73	54*	-14.27
	10360 (Pk)		51.23	68.23	-17.00
	10360 (Av)		39.33	54	-14.67
	15540 (Pk)		54.00	68.23	-14.23
	15540 (Av)		41.31	54	-12.69
5240	5240 (Pk)	Vertical	109.50	-	-
	5240 (Av)		95.33	-	-
	5350 (Pk)		63.85	74*	-10.15
	5350 (Av)		41.65	54*	-12.35
	10480 (Pk)		51.29	68.23	-16.94
	10480 (Av)		39.82	54	-14.18
	15720 (Pk)		53.01	68.23	-15.22
	15720 (Av)		41.13	54	-12.87
	5240 (Pk)	Horizontal	110.85	-	-
	5240 (Av)		96.41	-	-
	5350 (Pk)		66.17	74*	-7.83
	5350 (Av)		44.07	54*	-9.93
	10480 (Pk)		51.65	68.23	-16.58
	10480 (Av)		39.91	54	-14.09
	15720 (Pk)		52.29	68.23	-15.94
	15720 (Av)		41.20	54	-12.80
5260	5260 (Pk)	Vertical	109.28	-	-
	5260 (Av)		95.45	-	-
	5350 (Pk)		67.86	74*	-6.14
	5350 (Av)		44.89	54*	-9.11
	10520 (Pk)		51.91	68.23	-16.32
	10520 (Av)		39.89	54	-14.11
	15780 (Pk)		52.58	68.23	-15.65
	15780 (Av)		40.97	54	-13.03
	5260 (Pk)	Horizontal	112.40	-	-
	5260 (Av)		97.63	-	-
	5350 (Pk)		71.25	74*	-2.75
	5350 (Av)		48.32	54*	-5.68
	10520 (Pk)		51.59	68.23	-16.64
	10520 (Av)		39.99	54	-14.01
	15780 (Pk)		52.39	68.23	-15.84
	15780 (Av)		40.99	54	-13.01

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 238 von 285

Page 238 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	101.73	-	-
	5320 (Av)		88.70	-	-
	5350 (Pk)		56.78	74*	-17.22
	5350 (Av)		33.79	54*	-20.21
	10640 (Pk)		51.91	68.23	-16.32
	10640 (Av)		40.03	54	-13.97
	15960 (Pk)		53.51	68.23	-14.72
	15960 (Av)		41.69	54	-12.31
	5320 (Pk)	Horizontal	104.99	-	-
	5320 (Av)		91.26	-	-
	5350 (Pk)		59.53	74*	-14.47
	5350 (Av)		35.00	54*	-19.00
	10640 (Pk)		51.77	68.23	-16.46
	10640 (Av)		40.01	54	-13.99
	15960 (Pk)		54.84	68.23	-13.39
	15960 (Av)		41.65	54	-12.35
5500	5500 (Pk)	Vertical	99.82	-	-
	5500 (Av)		87.84	-	-
	5460 (Pk)		52.41	74*	-21.59
	5460 (Av)		32.92	54*	-21.08
	11000 (Pk)		53.10	68.23	-15.13
	11000 (Av)		40.66	54	-13.34
	16500 (Pk)		54.57	68.23	-13.66
	16500 (Av)		43.32	54	-10.68
	5500 (Pk)	Horizontal	104.19	-	-
	5500 (Av)		91.02	-	-
	5460 (Pk)		54.71	74*	-19.29
	5460 (Av)		34.02	54*	-19.98
	11000 (Pk)		52.04	68.23	-16.19
	11000 (Av)		40.61	54	-13.39
	16500 (Pk)		55.23	68.23	-13.00
	16500 (Av)		43.25	54	-10.75
5700	5700 (Pk)	Vertical	101.46	-	-
	5700 (Av)		88.45	-	-
	5460 (Pk)		42.96	74*	-31.04
	5460 (Av)		30.27	54*	-23.73
	11400 (Pk)		53.07	68.23	-15.16
	11400 (Av)		41.50	54	-12.50
	17100 (Pk)		55.62	68.23	-12.61
	17100 (Av)		44.29	54	-9.71
	5700 (Pk)	Horizontal	103.32	-	-
	5700 (Av)		89.98	-	-
	5460 (Pk)		43.33	74*	-30.67
	5460 (Av)		30.30	54*	-23.70
	11400 (Pk)		54.04	68.23	-14.19
	11400 (Av)		41.48	54	-12.52
	17100 (Pk)		55.63	68.23	-12.60
	17100 (Av)		44.35	54	-9.65

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av : Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 239 von 285

Page 239 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	108.25	-	-
	5720 (Av)		95.08	-	-
	5460 (Pk)		43.04	74*	-30.96
	5460 (Av)		30.32	54*	-23.68
	11440 (Pk)		52.68	68.23	-15.55
	11440 (Av)		41.55	54	-12.45
	17160 (Pk)		56.71	68.23	-11.52
	17160 (Av)		44.40	54	-9.60
	5720 (Pk)	Horizontal	109.53	-	-
	5720 (Av)		96.31	-	-
	5460 (Pk)		43.01	74*	-30.99
	5460 (Av)		30.38	54*	-23.62
	11440 (Pk)		53.37	68.23	-14.86
	11440 (Av)		41.56	54	-12.44
	17160 (Pk)		56.66	68.23	-11.57
	17160 (Av)		44.52	54	-9.48
5745	5715(Pk)	Vertical	68.99	78.20*	-9.21
	5725(Pk)		76.52	78.20*	-1.68
	5745 (Pk)		107.59	-	-
	5745 (Av)		93.61	-	-
	11490 (Pk)		53.99	68.23	-14.24
	11490 (Av)		42.48	54	-11.52
	17235 (Pk)		57.26	68.23	-10.97
	17235 (Av)		45.34	54	-8.66
	5715(Pk)	Horizontal	69.00	78.20*	-9.20
	5725(Pk)		74.02	78.20*	-4.18
	5745 (Pk)		107.05	-	-
	5745 (Av)		93.92	-	-
	11490 (Pk)		53.93	68.23	-14.30
	11490 (Av)		42.47	54	-11.53
	17235 (Pk)		56.62	68.23	-11.61
	17235 (Av)		45.34	54	-8.66
5825	5825 (Pk)	Vertical	110.09	-	-
	5825 (Av)		96.51	-	-
	5850 (Pk)		74.92	78.20*	-3.28
	5860 (Pk)		67.45	78.20*	-10.75
	11650 (Pk)		56.61	68.23	-11.62
	11650 (Av)		43.51	54	-10.49
	17475 (Pk)		58.34	68.23	-9.89
	17475 (Av)		47.13	54	-6.87
	5825 (Pk)	Horizontal	108.87	-	-
	5825 (Av)		95.33	-	-
	5850 (Pk)		73.15	78.20*	-5.05
	5860 (Pk)		66.91	78.20*	-11.29
	11650 (Pk)		54.18	68.23	-14.05
	11650 (Av)		42.18	54	-11.82
	17475 (Pk)		58.00	68.23	-10.23
	17475 (Av)		47.26	54	-6.74

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 240 von 285

Page 240 of 285

Modulation: 802.11ax _ HE 20MHz

Data rate: MCS11

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	100.55	-	-
	5180 (Av)		81.89	-	-
	5150 (Pk)		57.73	74*	-16.27
	5150 (Av)		34.45	54*	-19.55
	10360 (Pk)		50.86	68.23	-17.37
	10360 (Av)		39.32	54	-14.68
	15540 (Pk)		53.27	68.23	-14.96
	15540 (Av)		41.33	54	-12.67
	5180 (Pk)	Horizontal	101.87	-	-
	5180 (Av)		83.80	-	-
	5150 (Pk)		58.27	74*	-15.73
	5150 (Av)		35.38	54*	-18.62
	10360 (Pk)		51.75	68.23	-16.48
	10360 (Av)		39.27	54	-14.73
	15540 (Pk)		53.52	68.23	-14.71
	15540 (Av)		41.29	54	-12.71
5240	5240 (Pk)	Vertical	100.52	-	-
	5240 (Av)		82.24	-	-
	5350 (Pk)		43.40	74*	-30.60
	5350 (Av)		30.40	54*	-23.60
	10480 (Pk)		52.54	68.23	-15.69
	10480 (Av)		39.93	54	-14.07
	15720 (Pk)		53.14	68.23	-15.09
	15720 (Av)		41.22	54	-12.78
	5240 (Pk)	Horizontal	102.07	-	-
	5240 (Av)		84.10	-	-
	5350 (Pk)		46.70	74*	-27.30
	5350 (Av)		31.26	54*	-22.74
	10480 (Pk)		51.39	68.23	-16.84
	10480 (Av)		39.85	54	-14.15
	15720 (Pk)		53.13	68.23	-15.10
	15720 (Av)		41.19	54	-12.81
5260	5260 (Pk)	Vertical	100.42	-	-
	5260 (Av)		81.47	-	-
	5350 (Pk)		43.16	74*	-30.84
	5350 (Av)		30.39	54*	-23.61
	10520 (Pk)		51.86	68.23	-16.37
	10520 (Av)		39.96	54	-14.04
	15780 (Pk)		54.02	68.23	-14.21
	15780 (Av)		41.06	54	-12.94
	5260 (Pk)	Horizontal	101.70	-	-
	5260 (Av)		83.28	-	-
	5350 (Pk)		44.97	74*	-29.03
	5350 (Av)		31.22	54*	-22.78
	10520 (Pk)		51.11	68.23	-17.12
	10520 (Av)		39.94	54	-14.06
	15780 (Pk)		52.71	68.23	-15.52
	15780 (Av)		40.99	54	-13.01

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 241 von 285

Page 241 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5320	5320 (Pk)	Vertical	98.58	-	-
	5320 (Av)		79.77	-	-
	5350 (Pk)		47.99	74*	-26.01
	5350 (Av)		31.17	54*	-22.83
	10640 (Pk)		52.06	68.23	-16.17
	10640 (Av)		40.11	54	-13.89
	15960 (Pk)		53.23	68.23	-15.00
	15960 (Av)		41.71	54	-12.29
	5320 (Pk)	Horizontal	99.96	-	-
	5320 (Av)		81.62	-	-
	5350 (Pk)		50.31	74*	-23.69
	5350 (Av)		31.79	54*	-22.21
	10640 (Pk)		50.90	68.23	-17.33
	10640 (Av)		39.98	54	-14.02
	15960 (Pk)		52.90	68.23	-15.33
	15960 (Av)		41.69	54	-12.31
5500	5500 (Pk)	Vertical	97.79	-	-
	5500 (Av)		80.44	-	-
	5460 (Pk)		46.40	74*	-27.60
	5460 (Av)		32.35	54*	-21.65
	11000 (Pk)		54.99	68.23	-13.24
	11000 (Av)		41.56	54	-12.44
	16500 (Pk)		57.37	68.23	-10.86
	16500 (Av)		44.25	54	-9.75
	5500 (Pk)	Horizontal	101.12	-	-
	5500 (Av)		82.14	-	-
	5460 (Pk)		47.75	74*	-26.25
	5460 (Av)		32.83	54*	-21.17
	11000 (Pk)		53.00	68.23	-15.23
	11000 (Av)		40.71	54	-13.29
	16500 (Pk)		55.06	68.23	-13.17
	16500 (Av)		43.30	54	-10.70
5700	5700 (Pk)	Vertical	99.99	-	-
	5700 (Av)		81.53	-	-
	5460 (Pk)		43.46	74*	-30.54
	5460 (Av)		30.17	54*	-23.83
	11400 (Pk)		53.89	68.23	-14.34
	11400 (Av)		41.59	54	-12.41
	17100 (Pk)		55.99	68.23	-12.24
	17100 (Av)		44.23	54	-9.77
	5700 (Pk)	Horizontal	100.92	-	-
	5700 (Av)		82.67	-	-
	5460 (Pk)		42.85	74*	-31.15
	5460 (Av)		30.20	54*	-23.80
	11400 (Pk)		53.11	68.23	-15.12
	11400 (Av)		41.56	54	-12.44
	17100 (Pk)		56.25	68.23	-11.98
	17100 (Av)		44.33	54	-9.67

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 242 von 285

Page 242 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5720	5720 (Pk)	Vertical	100.01	-	-
	5720 (Av)		81.06	-	-
	5460 (Pk)		43.14	74*	-30.86
	5460 (Av)		30.16	54*	-23.84
	11440 (Pk)		53.16	68.23	-15.07
	11440 (Av)		41.46	54	-12.54
	17160 (Pk)		56.39	68.23	-11.84
	17160 (Av)		44.45	54	-9.55
	5720 (Pk)	Horizontal	100.68	-	-
	5720 (Av)		82.11	-	-
	5460 (Pk)		43.27	74*	-30.73
	5460 (Av)		30.19	54*	-23.81
	11440 (Pk)		53.87	68.23	-14.36
	11440 (Av)		41.46	54	-12.54
	17160 (Pk)		55.57	68.23	-12.66
	17160 (Av)		44.41	54	-9.59
5745	5715(Pk)	Vertical	49.28	78.20*	-28.92
	5725(Pk)		58.35	78.20*	-19.85
	5745 (Pk)		99.92	-	-
	5745 (Av)		81.39	-	-
	11490 (Pk)		54.54	68.23	-13.69
	11490 (Av)		42.45	54	-11.55
	17235 (Pk)		57.23	68.23	-11.00
	17235 (Av)		45.34	54	-8.66
	5715(Pk)	Horizontal	50.55	78.20*	-27.65
	5725(Pk)		59.51	78.20*	-18.69
	5745 (Pk)		100.60	-	-
	5745 (Av)		81.35	-	-
	11490 (Pk)		54.00	68.23	-14.23
	11490 (Av)		42.36	54	-11.64
	17235 (Pk)		57.31	68.23	-10.92
	17235 (Av)		45.31	54	-8.69
5825	5825 (Pk)	Vertical	100.80	-	-
	5825 (Av)		81.90	-	-
	5850 (Pk)		55.92	78.20*	-22.28
	5860 (Pk)		47.87	78.20*	-30.33
	11650 (Pk)		54.34	68.23	-13.89
	11650 (Av)		41.53	54	-12.47
	17475 (Pk)		59.85	68.23	-8.38
	17475 (Av)		47.23	54	-6.77
	5825 (Pk)	Horizontal	100.67	-	-
	5825 (Av)		81.17	-	-
	5850 (Pk)		53.72	78.20*	-24.48
	5860 (Pk)		46.63	78.20*	-31.57
	11650 (Pk)		53.71	68.23	-14.52
	11650 (Av)		41.57	54	-12.43
	17475 (Pk)		59.11	68.23	-9.12
	17475 (Av)		47.26	54	-6.74

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 243 von 285

Page 243 of 285

Modulation: 802.11n _ HT 40MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	95.38	-	-
	5190 (Av)		84.24	-	-
	5150 (Pk)		63.74	74*	-10.26
	5150 (Av)		43.99	54*	-10.01
	10380 (Pk)		51.73	68.23	-16.50
	10380 (Av)		39.81	54	-14.19
	15570 (Pk)		53.45	68.23	-14.78
	15570 (Av)		41.32	54	-12.68
	5190 (Pk)	Horizontal	96.92	-	-
	5190 (Av)		86.36	-	-
	5150 (Pk)		65.35	74*	-8.65
	5150 (Av)		45.96	54*	-8.04
	10380 (Pk)		52.40	68.23	-15.83
	10380 (Av)		39.86	54	-14.14
	15570 (Pk)		53.54	68.23	-14.69
	15570 (Av)		41.47	54	-12.53
5230	5230 (Pk)	Vertical	98.11	-	-
	5230 (Av)		87.09	-	-
	5350 (Pk)		54.90	74*	-19.10
	5350 (Av)		36.27	54*	-17.73
	10460 (Pk)		52.59	68.23	-15.64
	10460 (Av)		40.17	54	-13.83
	15690 (Pk)		53.28	68.23	-14.95
	15690 (Av)		41.01	54	-12.99
	5230 (Pk)	Horizontal	100.76	-	-
	5230 (Av)		90.08	-	-
	5350 (Pk)		55.35	74*	-18.65
	5350 (Av)		38.64	54*	-15.36
	10460 (Pk)		52.72	68.23	-15.51
	10460 (Av)		40.19	54	-13.81
	15690 (Pk)		53.43	68.23	-14.80
	15690 (Av)		41.01	54	-12.99
5270	5270 (Pk)	Vertical	101.85	-	-
	5270 (Av)		90.53	-	-
	5350 (Pk)		61.15	74*	-12.85
	5350 (Av)		44.07	54*	-9.93
	10540 (Pk)		51.13	68.23	-17.10
	10540 (Av)		40.27	54	-13.73
	15810 (Pk)		52.23	68.23	-16.00
	15810 (Av)		40.75	54	-13.25
	5270 (Pk)	Horizontal	103.54	-	-
	5270 (Av)		91.68	-	-
	5350 (Pk)		65.75	74*	-8.25
	5350 (Av)		48.35	54*	-5.65
	10540 (Pk)		52.21	68.23	-16.02
	10540 (Av)		40.31	54	-13.69
	15810 (Pk)		53.09	68.23	-15.14
	15810 (Av)		40.76	54	-13.24

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 244 von 285

Page 244 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5310	5310 (Pk)	Vertical	97.75	-	-
	5310 (Av)		86.71	-	-
	5350 (Pk)		60.95	74*	-13.05
	5350 (Av)		41.67	54*	-12.33
	10620 (Pk)		53.28	68.23	-14.95
	10620 (Av)		40.34	54	-13.66
	15930 (Pk)		53.76	68.23	-14.47
	15930 (Av)		41.22	54	-12.78
	5310 (Pk)	Horizontal	98.73	-	-
	5310 (Av)		87.87	-	-
	5350 (Pk)		65.20	74*	-8.80
	5350 (Av)		46.02	54*	-7.98
	10620 (Pk)		51.15	68.23	-17.08
	10620 (Av)		40.29	54	-13.71
	15930 (Pk)		52.15	68.23	-16.08
	15930 (Av)		41.17	54	-12.83
5510	5510 (Pk)	Vertical	94.00	-	-
	5510 (Av)		82.80	-	-
	5460 (Pk)		49.84	74*	-24.16
	5460 (Av)		32.85	54*	-21.15
	11020 (Pk)		53.24	68.23	-14.99
	11020 (Av)		41.06	54	-12.94
	16530 (Pk)		56.47	68.23	-11.76
	16530 (Av)		43.16	54	-10.84
	5510 (Pk)	Horizontal	96.03	-	-
	5510 (Av)		85.13	-	-
	5460 (Pk)		48.74	74*	-25.26
	5460 (Av)		34.46	54*	-19.54
	11020 (Pk)		52.56	68.23	-15.67
	11020 (Av)		41.03	54	-12.97
	16530 (Pk)		55.16	68.23	-13.07
	16530 (Av)		43.13	54	-10.87
5590	5590 (Pk)	Vertical	103.44	-	-
	5590 (Av)		91.42	-	-
	5460 (Pk)		54.52	74*	-19.48
	5460 (Av)		37.49	54*	-16.51
	11180 (Pk)		51.95	68.23	-16.28
	11180 (Av)		40.75	54	-13.25
	16770 (Pk)		56.07	68.23	-12.16
	16770 (Av)		43.81	54	-10.19
	5590 (Pk)	Horizontal	103.75	-	-
	5590 (Av)		92.69	-	-
	5460 (Pk)		53.69	74*	-20.31
	5460 (Av)		37.93	54*	-16.07
	11180 (Pk)		52.29	68.23	-15.94
	11180 (Av)		40.71	54	-13.29
	16770 (Pk)		55.84	68.23	-12.39
	16770 (Av)		43.87	54	-10.13

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 245 von 285

Page 245 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5670	5670 (Pk)	Vertical	96.67	-	-
	5670 (Av)		85.55	-	-
	5460 (Pk)		43.04	74*	-30.96
	5460 (Av)		30.34	54*	-23.66
	11340 (Pk)		53.38	68.23	-14.85
	11340 (Av)		41.22	54	-12.78
	17010 (Pk)		55.07	68.23	-13.16
	17010 (Av)		43.28	54	-10.72
	5670 (Pk)	Horizontal	98.82	-	-
	5670 (Av)		87.91	-	-
	5460 (Pk)		43.17	74*	-30.83
	5460 (Av)		30.37	54*	-23.63
	11340 (Pk)		53.40	68.23	-14.83
	11340 (Av)		41.27	54	-12.73
	17010 (Pk)		54.60	68.23	-13.63
	17010 (Av)		43.31	54	-10.69
5710	5710 (Pk)	Vertical	100.95	-	-
	5710 (Av)		89.95	-	-
	5460 (Pk)		42.88	74*	-31.12
	5460 (Av)		30.37	54*	-23.63
	11420 (Pk)		53.66	68.23	-14.57
	11420 (Av)		41.95	54	-12.05
	17130 (Pk)		54.83	68.23	-13.40
	17130 (Av)		43.36	54	-10.64
	5710 (Pk)	Horizontal	103.88	-	-
	5710 (Av)		92.82	-	-
	5460 (Pk)		42.72	74*	-31.28
	5460 (Av)		30.47	54*	-23.53
	11420 (Pk)		54.51	68.23	-13.72
	11420 (Av)		42.02	54	-11.98
	17130 (Pk)		55.05	68.23	-13.18
	17130 (Av)		43.35	54	-10.65
5755	5755 (Pk)	Vertical	97.05	-	-
	5755 (Av)		86.11	-	-
	5715(Pk)		62.66	78.20*	-15.54
	5725(Pk)		64.87	78.20*	-13.33
	11510 (Pk)		54.51	68.23	-13.72
	11510 (Av)		42.69	54	-11.31
	17265(Pk)		54.38	68.23	-13.85
	17265(Av)		43.52	54	-10.48
	5755 (Pk)	Horizontal	100.03	-	-
	5755 (Av)		88.67	-	-
	5715(Pk)		68.74	78.20*	-9.46
	5725(Pk)		66.96	78.20*	-11.24
	11510 (Pk)		55.17	68.23	-13.06
	11510 (Av)		42.76	54	-11.24
	17265(Pk)		55.02	68.23	-13.21
	17265(Av)		43.49	54	-10.51

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 246 von 285

Page 246 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	100.28	-	-
	5795 (Av)		89.06	-	-
	5850 (Pk)		59.28	78.20*	-18.92
	5860 (Pk)		56.76	78.20*	-21.44
	11590 (Pk)		53.37	68.23	-14.86
	11590 (Av)		42.25	54	-11.75
	17385 (Pk)		56.04	68.23	-12.19
	17385 (Av)		43.85	54	-10.15
	5795 (Pk)	Horizontal	102.95	-	-
	5795 (Av)		91.76	-	-
	5850 (Pk)		61.59	78.20*	-16.61
	5860 (Pk)		57.88	78.20*	-20.32
	11590 (Pk)		54.27	68.23	-13.96
	11590 (Av)		42.09	54	-11.91
	17385 (Pk)		54.94	68.23	-13.29
	17385 (Pk)		43.81	54	-10.19

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 247 von 285

Page 247 of 285

Modulation: 802.11n _ HT 40MHz

Data rate: MCS7

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	96.06	-	-
	5190 (Av)		78.73	-	-
	5150 (Pk)		58.17	74*	-15.83
	5150 (Av)		38.87	54*	-15.13
	10380 (Pk)		51.77	68.23	-16.46
	10380 (Av)		39.76	54	-14.24
	15570 (Pk)		53.22	68.23	-15.01
	15570 (Av)		41.22	54	-12.78
	5190 (Pk)	Horizontal	97.58	-	-
	5190 (Av)		80.53	-	-
	5150 (Pk)		61.20	74*	-12.80
	5150 (Av)		40.57	54*	-13.43
	10380 (Pk)		52.91	68.23	-15.32
	10380 (Av)		39.73	54	-14.27
	15570 (Pk)		52.79	68.23	-15.44
	15570 (Av)		41.26	54	-12.74
5230	5230 (Pk)	Vertical	100.31	-	-
	5230 (Av)		82.70	-	-
	5350 (Pk)		55.22	74*	-18.78
	5350 (Av)		37.10	54*	-16.90
	10460 (Pk)		52.36	68.23	-15.87
	10460 (Av)		40.11	54	-13.89
	15690 (Pk)		52.73	68.23	-15.50
	15690 (Av)		40.90	54	-13.10
	5230 (Pk)	Horizontal	102.36	-	-
	5230 (Av)		84.98	-	-
	5150 (Pk)		55.76	74*	-18.24
	5150 (Av)		36.96	54*	-17.04
	10460 (Pk)		53.24	68.23	-14.99
	10460 (Av)		40.15	54	-13.85
	15690 (Pk)		53.96	68.23	-14.27
	15690 (Av)		40.96	54	-13.04
5270	5270 (Pk)	Vertical	99.21	-	-
	5270 (Av)		81.76	-	-
	5350 (Pk)		56.01	74*	-17.99
	5350 (Av)		34.46	54*	-19.54
	10540 (Pk)		52.08	68.23	-16.15
	10540 (Av)		40.20	54	-13.80
	15810 (Pk)		52.46	68.23	-15.77
	15810 (Av)		40.78	54	-13.22
	5270 (Pk)	Horizontal	100.78	-	-
	5270 (Av)		83.21	-	-
	5350 (Pk)		56.58	74*	-17.42
	5350 (Av)		34.98	54*	-19.02
	10540 (Pk)		52.13	68.23	-16.10
	10540 (Av)		40.16	54	-13.84
	15810 (Pk)		52.17	68.23	-16.06
	15810 (Av)		40.79	54	-13.21

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 248 von 285

Page 248 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5310	5310 (Pk)	Vertical	97.97	-	-
	5310 (Av)		80.64	-	-
	5350 (Pk)		63.67	74*	-10.33
	5350 (Av)		40.46	54*	-13.54
	10620 (Pk)		52.64	68.23	-15.59
	10620 (Av)		40.29	54	-13.71
	15930 (Pk)		53.43	68.23	-14.80
	15930 (Av)		41.24	54	-12.76
	5310 (Pk)	Horizontal	98.62	-	-
	5310 (Av)		81.40	-	-
	5350 (Pk)		65.81	74*	-8.19
	5350 (Av)		42.45	54*	-11.55
	10620 (Pk)		52.03	68.23	-16.20
	10620 (Av)		40.25	54	-13.75
	15930 (Pk)		53.88	68.23	-14.35
	15930 (Av)		41.28	54	-12.72
5510	5510 (Pk)	Vertical	94.55	-	-
	5510 (Av)		77.59	-	-
	5460 (Pk)		50.07	74*	-23.93
	5460 (Av)		32.90	54*	-21.10
	11020 (Pk)		52.86	68.23	-15.37
	11020 (Av)		40.95	54	-13.05
	16530 (Pk)		54.94	68.23	-13.29
	16530 (Av)		43.20	54	-10.80
	5510 (Pk)	Horizontal	95.73	-	-
	5510 (Av)		78.49	-	-
	5460 (Pk)		50.51	74*	-23.49
	5460 (Av)		33.63	54*	-20.37
	11020 (Pk)		52.68	68.23	-15.55
	11020 (Av)		41.02	54	-12.98
	16530 (Pk)		55.38	68.23	-12.85
	16530 (Av)		43.14	54	-10.86
5590	5590 (Pk)	Vertical	98.04	-	-
	5590 (Av)		81.75	-	-
	5460 (Pk)		45.65	74*	-28.35
	5460 (Av)		31.36	54*	-22.64
	11180 (Pk)		52.06	68.23	-16.17
	11180 (Av)		40.64	54	-13.36
	16770 (Pk)		55.54	68.23	-12.69
	16770 (Av)		43.83	54	-10.17
	5590 (Pk)	Horizontal	100.89	-	-
	5590 (Av)		83.78	-	-
	5460 (Pk)		47.54	74*	-26.46
	5460 (Av)		31.48	54*	-22.52
	11180 (Pk)		52.42	68.23	-15.81
	11180 (Av)		40.60	54	-13.40
	16770 (Pk)		55.39	68.23	-12.84
	16770 (Av)		43.85	54	-10.15

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 249 von 285

Page 249 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5670	5670 (Pk)	Vertical	96.87	-	-
	5670 (Av)		80.49	-	-
	5460 (Pk)		42.96	74*	-31.04
	5460 (Av)		30.28	54*	-23.72
	11340 (Pk)		52.52	68.23	-15.71
	11340 (Av)		41.19	54	-12.81
	17010 (Pk)		54.58	68.23	-13.65
	17010 (Av)		43.31	54	-10.69
	5670 (Pk)	Horizontal	100.14	-	-
	5670 (Av)		82.99	-	-
	5460 (Pk)		43.54	74*	-30.46
	5460 (Av)		30.36	54*	-23.64
	11340 (Pk)		53.10	68.23	-15.13
	11340 (Av)		41.22	54	-12.78
	17010 (Pk)		54.84	68.23	-13.39
	17010 (Av)		43.27	54	-10.73
5710	5710 (Pk)	Vertical	99.35	-	-
	5710 (Av)		81.97	-	-
	5460 (Pk)		43.29	74*	-30.71
	5460 (Av)		30.25	54*	-23.75
	11420 (Pk)		53.32	68.23	-14.91
	11420 (Av)		41.86	54	-12.14
	17130 (Pk)		55.04	68.23	-13.19
	17130 (Av)		43.38	54	-10.62
	5710 (Pk)	Horizontal	101.01	-	-
	5710 (Av)		83.76	-	-
	5460 (Pk)		43.04	74*	-30.96
	5460 (Av)		30.29	54*	-23.71
	11420 (Pk)		53.57	68.23	-14.66
	11420 (Av)		41.91	54	-12.09
	17130 (Pk)		55.27	68.23	-12.96
	17130 (Av)		43.47	54	-10.53
5755	5755 (Pk)	Vertical	99.37	-	-
	5755 (Av)		82.16	-	-
	5715(Pk)		65.31	78.20*	-12.89
	5725(Pk)		67.38	78.20*	-10.82
	11510 (Pk)		54.62	68.23	-13.61
	11510 (Av)		42.72	54	-11.28
	17265(Pk)		55.97	68.23	-12.26
	17265(Av)		43.52	54	-10.48
	5755 (Pk)	Horizontal	102.09	-	-
	5755 (Av)		84.99	-	-
	5715(Pk)		67.49	78.20*	-10.71
	5725(Pk)		69.17	78.20*	-9.03
	11510 (Pk)		54.37	68.23	-13.86
	11510 (Av)		42.71	54	-11.29
	17265(Pk)		54.29	68.23	-13.94
	17265(Av)		43.48	54	-10.52

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 250 von 285

Page 250 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	100.28	-	-
	5795 (Av)		83.17	-	-
	5850 (Pk)		56.54	78.20*	-21.66
	5860 (Pk)		53.46	78.20*	-24.74
	11590 (Pk)		53.68	68.23	-14.55
	11590 (Av)		42.12	54	-11.88
	17385 (Pk)		55.29	68.23	-12.94
	17385 (Av)		43.79	54	-10.21
	5795 (Pk)	Horizontal	101.47	-	-
	5795 (Av)		83.94	-	-
	5850 (Pk)		57.24	78.20*	-20.96
	5860 (Pk)		55.91	78.20*	-22.29
	11590 (Pk)		53.89	68.23	-14.34
	11590 (Av)		42.06	54	-11.94
	17385 (Pk)		55.57	68.23	-12.66
	17385 (Pk)		43.73	54	-10.27

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 251 von 285

Page 251 of 285

Modulation: 802.11ac _ VHT 40MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	95.84	-	-
	5190 (Av)		85.26	-	-
	5150 (Pk)		59.09	74*	-14.91
	5150 (Av)		42.70	54*	-11.30
	10380 (Pk)		51.80	68.23	-16.43
	10380 (Av)		39.71	54	-14.29
	15570 (Pk)		53.22	68.23	-15.01
	15570 (Av)		41.34	54	-12.66
	5190 (Pk)	Horizontal	98.06	-	-
	5190 (Av)		87.07	-	-
	5150 (Pk)		61.68	74*	-12.32
	5150 (Av)		44.75	54*	-9.25
	10380 (Pk)		52.00	68.23	-16.23
	10380 (Av)		39.72	54	-14.28
	15570 (Pk)		53.13	68.23	-15.10
	15570 (Av)		41.29	54	-12.71
5230	5230 (Pk)	Vertical	101.39	-	-
	5230 (Av)		89.50	-	-
	5350 (Pk)		58.92	74*	-15.08
	5350 (Av)		41.39	54*	-12.61
	10460 (Pk)		51.63	68.23	-16.60
	10460 (Av)		40.08	54	-13.92
	15690 (Pk)		52.34	68.23	-15.89
	15690 (Av)		40.94	54	-13.06
	5230 (Pk)	Horizontal	102.13	-	-
	5230 (Av)		91.16	-	-
	5350 (Pk)		54.14	74*	-19.86
	5350 (Av)		39.23	54*	-14.77
	10460 (Pk)		52.13	68.23	-16.10
	10460 (Av)		40.10	54	-13.90
	15690 (Pk)		52.87	68.23	-15.36
	15690 (Av)		41.00	54	-13.00
5270	5270 (Pk)	Vertical	99.83	-	-
	5270 (Av)		88.81	-	-
	5350 (Pk)		58.40	74*	-15.60
	5350 (Av)		41.97	54*	-12.03
	10540 (Pk)		52.50	68.23	-15.73
	10540 (Av)		40.21	54	-13.79
	15810 (Pk)		52.37	68.23	-15.86
	15810 (Av)		40.76	54	-13.24
	5270 (Pk)	Horizontal	101.21	-	-
	5270 (Av)		89.67	-	-
	5350 (Pk)		58.50	74*	-15.50
	5350 (Av)		41.24	54*	-12.76
	10540 (Pk)		51.90	68.23	-16.33
	10540 (Av)		40.18	54	-13.82
	15810 (Pk)		52.58	68.23	-15.65
	15810 (Av)		40.72	54	-13.28

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 252 von 285

Page 252 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5310	5310 (Pk)	Vertical	98.84	-	-
	5310 (Av)		87.65	-	-
	5350 (Pk)		61.99	74*	-12.01
	5350 (Av)		44.02	54*	-9.98
	10620 (Pk)		51.83	68.23	-16.40
	10620 (Av)		40.23	54	-13.77
	15930 (Pk)		53.45	68.23	-14.78
	15930 (Av)		41.22	54	-12.78
	5310 (Pk)	Horizontal	99.78	-	-
	5310 (Av)		88.69	-	-
	5350 (Pk)		65.82	74*	-8.18
	5350 (Av)		46.65	54*	-7.35
	10620 (Pk)		51.89	68.23	-16.34
	10620 (Av)		40.27	54	-13.73
	15930 (Pk)		53.10	68.23	-15.13
	15930 (Av)		41.20	54	-12.80
5510	5510 (Pk)	Vertical	95.07	-	-
	5510 (Av)		84.59	-	-
	5460 (Pk)		51.20	74*	-22.80
	5460 (Av)		34.72	54*	-19.28
	11020 (Pk)		53.35	68.23	-14.88
	11020 (Av)		41.03	54	-12.97
	16530 (Pk)		56.39	68.23	-11.84
	16530 (Av)		43.16	54	-10.84
	5510 (Pk)	Horizontal	96.71	-	-
	5510 (Av)		85.25	-	-
	5460 (Pk)		51.35	74*	-22.65
	5460 (Av)		34.88	54*	-19.12
	11020 (Pk)		53.78	68.23	-14.45
	11020 (Av)		40.99	54	-13.01
	16530 (Pk)		55.92	68.23	-12.31
	16530 (Av)		43.13	54	-10.87
5590	5590 (Pk)	Vertical	101.08	-	-
	5590 (Av)		90.41	-	-
	5460 (Pk)		52.17	74*	-21.83
	5460 (Av)		36.83	54*	-17.17
	11180 (Pk)		51.98	68.23	-16.25
	11180 (Av)		40.67	54	-13.33
	16770 (Pk)		56.20	68.23	-12.03
	16770 (Av)		43.87	54	-10.13
	5590 (Pk)	Horizontal	103.33	-	-
	5590 (Av)		91.85	-	-
	5460 (Pk)		51.74	74*	-22.26
	5460 (Av)		36.99	54*	-17.01
	11180 (Pk)		52.99	68.23	-15.24
	11180 (Av)		40.68	54	-13.32
	16770 (Pk)		55.73	68.23	-12.50
	16770 (Av)		43.88	54	-10.12

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 253 von 285

Page 253 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5670	5670 (Pk)	Vertical	97.70	-	-
	5670 (Av)		87.21	-	-
	5460 (Pk)		43.70	74*	-30.30
	5460 (Av)		30.49	54*	-23.51
	11340 (Pk)		53.84	68.23	-14.39
	11340 (Av)		41.30	54	-12.70
	17010 (Pk)		55.83	68.23	-12.40
	17010 (Av)		43.38	54	-10.62
	5670 (Pk)	Horizontal	99.22	-	-
	5670 (Av)		88.03	-	-
	5460 (Pk)		42.81	74*	-31.19
	5460 (Av)		30.55	54*	-23.45
	11340 (Pk)		53.15	68.23	-15.08
	11340 (Av)		41.23	54	-12.77
	17010 (Pk)		55.50	68.23	-12.73
	17010 (Av)		43.32	54	-10.68
5710	5710 (Pk)	Vertical	102.30	-	-
	5710 (Av)		91.43	-	-
	5460 (Pk)		42.89	74*	-31.11
	5460 (Av)		30.52	54*	-23.48
	11420 (Pk)		55.09	68.23	-13.14
	11420 (Av)		41.94	54	-12.06
	17130 (Pk)		55.70	68.23	-12.53
	17130 (Av)		43.40	54	-10.60
	5710 (Pk)	Horizontal	102.44	-	-
	5710 (Av)		91.21	-	-
	5460 (Pk)		43.58	74*	-30.42
	5460 (Av)		30.52	54*	-23.48
	11420 (Pk)		53.47	68.23	-14.76
	11420 (Av)		41.90	54	-12.10
	17130 (Pk)		55.34	68.23	-12.89
	17130 (Av)		43.37	54	-10.63
5755	5755 (Pk)	Vertical	100.91	-	-
	5755 (Av)		89.78	-	-
	5715(Pk)		66.45	78.20*	-11.75
	5725(Pk)		69.44	78.20*	-8.76
	11510 (Pk)		54.33	68.23	-13.9
	11510 (Av)		42.78	54	-11.22
	17265(Pk)		55.72	68.23	-12.51
	17265(Av)		43.53	54	-10.47
	5755 (Pk)	Horizontal	101.73	-	-
	5755 (Av)		90.59	-	-
	5715(Pk)		71.20	78.20*	-7
	5725(Pk)		69.41	78.20*	-8.79
	11510 (Pk)		54.94	68.23	-13.29
	11510 (Av)		42.78	54	-11.22
	17265(Pk)		55.71	68.23	-12.52
	17265(Av)		43.56	54	-10.44

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 254 von 285

Page 254 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	100.56	-	-
	5795 (Av)		89.27	-	-
	5850 (Pk)		56.72	78.20*	-21.48
	5860 (Pk)		52.91	78.20*	-25.29
	11590 (Pk)		53.94	68.23	-14.29
	11590 (Av)		42.16	54	-11.84
	17385 (Pk)		55.16	68.23	-13.07
	17385 (Av)		43.80	54	-10.2
	5795 (Pk)	Horizontal	101.45	-	-
	5795 (Av)		89.79	-	-
	5850 (Pk)		56.99	78.20*	-21.21
	5860 (Pk)		54.63	78.20*	-23.57
	11590 (Pk)		53.78	68.23	-14.45
	11590 (Av)		42.07	54	-11.93
	17385 (Pk)		55.10	68.23	-13.13
	17385 (Pk)		43.82	54	-10.18

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 255 von 285

Page 255 of 285

Modulation: 802.11ac _ VHT 40MHz

Data rate: MCS9

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	95.98	-	-
	5190 (Av)		77.64	-	-
	5150 (Pk)		57.05	74*	-16.95
	5150 (Av)		38.35	54*	-15.65
	10380 (Pk)		51.62	68.23	-16.61
	10380 (Av)		39.79	54	-14.21
	15570 (Pk)		53.26	68.23	-14.97
	15570 (Av)		41.04	54	-12.96
	5190 (Pk)	Horizontal	98.19	-	-
	5190 (Av)		79.84	-	-
	5150 (Pk)		59.52	74*	-14.48
	5150 (Av)		39.84	54*	-14.16
	10380 (Pk)		51.69	68.23	-16.54
	10380 (Av)		39.84	54	-14.16
	15570 (Pk)		52.52	68.23	-15.71
	15570 (Av)		41.13	54	-12.87
5230	5230 (Pk)	Vertical	99.33	-	-
	5230 (Av)		81.24	-	-
	5350 (Pk)		55.87	74*	-18.13
	5350 (Av)		35.31	54*	-18.69
	10460 (Pk)		52.22	68.23	-16.01
	10460 (Av)		39.85	54	-14.15
	15690 (Pk)		53.73	68.23	-14.50
	15690 (Av)		41.18	54	-12.82
	5230 (Pk)	Horizontal	101.91	-	-
	5230 (Av)		83.16	-	-
	5350 (Pk)		55.25	74*	-18.75
	5350 (Av)		34.94	54*	-19.06
	10460 (Pk)		50.92	68.23	-17.31
	10460 (Av)		39.77	54	-14.23
	15690 (Pk)		52.67	68.23	-15.56
	15690 (Av)		41.19	54	-12.81
5270	5270 (Pk)	Vertical	98.64	-	-
	5270 (Av)		80.15	-	-
	5350 (Pk)		50.74	74*	-23.26
	5350 (Av)		33.16	54*	-20.84
	10540 (Pk)		52.46	68.23	-15.77
	10540 (Av)		40.26	54	-13.74
	15810 (Pk)		53.50	68.23	-14.73
	15810 (Av)		40.80	54	-13.20
	5270 (Pk)	Horizontal	99.74	-	-
	5270 (Av)		82.20	-	-
	5350 (Pk)		50.36	74*	-23.64
	5350 (Av)		32.94	54*	-21.06
	10540 (Pk)		51.21	68.23	-17.02
	10540 (Av)		40.24	54	-13.76
	15810 (Pk)		52.08	68.23	-16.15
	15810 (Av)		40.74	54	-13.26

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 256 von 285

Page 256 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5310	5310 (Pk)	Vertical	98.80	-	-
	5310 (Av)		80.28	-	-
	5350 (Pk)		61.86	74*	-12.14
	5350 (Av)		40.16	54*	-13.84
	10620 (Pk)		52.33	68.23	-15.90
	10620 (Av)		40.33	54	-13.67
	15930 (Pk)		53.22	68.23	-15.01
	15930 (Av)		41.26	54	-12.74
	5310 (Pk)	Horizontal	99.41	-	-
	5310 (Av)		81.40	-	-
	5350 (Pk)		62.82	74*	-11.18
	5350 (Av)		41.91	54*	-12.09
	10620 (Pk)		52.77	68.23	-15.46
	10620 (Av)		41.08	54	-12.92
	15930 (Pk)		55.15	68.23	-13.08
	15930 (Av)		43.15	54	-10.85
5510	5510 (Pk)	Vertical	95.22	-	-
	5510 (Av)		76.85	-	-
	5460 (Pk)		49.49	74*	-24.51
	5460 (Av)		32.90	54*	-21.10
	11020 (Pk)		52.93	68.23	-15.30
	11020 (Av)		41.00	54	-13.00
	16530 (Pk)		54.92	68.23	-13.31
	16530 (Av)		43.16	54	-10.84
	5510 (Pk)	Horizontal	96.92	-	-
	5510 (Av)		78.81	-	-
	5460 (Pk)		51.23	74*	-22.77
	5460 (Av)		33.96	54*	-20.04
	11020 (Pk)		53.13	68.23	-15.10
	11020 (Av)		41.02	54	-12.98
	16530 (Pk)		54.43	68.23	-13.80
	16530 (Av)		43.08	54	-10.92
5590	5590 (Pk)	Vertical	98.65	-	-
	5590 (Av)		80.03	-	-
	5460 (Pk)		44.93	74*	-29.07
	5460 (Av)		31.04	54*	-22.96
	11180 (Pk)		52.48	68.23	-15.75
	11180 (Av)		40.76	54	-13.24
	16770 (Pk)		55.43	68.23	-12.80
	16770 (Av)		43.88	54	-10.12
	5590 (Pk)	Horizontal	99.63	-	-
	5590 (Av)		81.60	-	-
	5460 (Pk)		44.41	74*	-29.59
	5460 (Av)		30.97	54*	-23.03
	11180 (Pk)		53.18	68.23	-15.05
	11180 (Av)		40.75	54	-13.25
	16770 (Pk)		56.03	68.23	-12.20
	16770 (Av)		43.88	54	-10.12

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 257 von 285

Page 257 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5670	5670 (Pk)	Vertical	98.31	-	-
	5670 (Av)		80.32	-	-
	5460 (Pk)		43.25	74*	-30.75
	5460 (Av)		30.17	54*	-23.83
	11340 (Pk)		52.82	68.23	-15.41
	11340 (Av)		41.22	54	-12.78
	17010 (Pk)		54.99	68.23	-13.24
	17010 (Av)		43.35	54	-10.65
	5670 (Pk)	Horizontal	98.88	-	-
	5670 (Av)		81.22	-	-
	5460 (Pk)		42.95	74*	-31.05
	5460 (Av)		30.22	54*	-23.78
	11340 (Pk)		52.55	68.23	-15.68
	11340 (Av)		41.18	54	-12.82
	17010 (Pk)		54.83	68.23	-13.40
	17010 (Av)		43.35	54	-10.65
5710	5710 (Pk)	Vertical	95.57	-	-
	5710 (Av)		77.47	-	-
	5460 (Pk)		43.14	74*	-30.86
	5460 (Av)		30.07	54*	-23.93
	11420 (Pk)		53.17	68.23	-15.06
	11420 (Av)		41.88	54	-12.12
	17130 (Pk)		54.99	68.23	-13.24
	17130 (Av)		43.42	54	-10.58
	5710 (Pk)	Horizontal	98.84	-	-
	5710 (Av)		81.00	-	-
	5460 (Pk)		43.23	74*	-30.77
	5460 (Av)		30.12	54*	-23.88
	11420 (Pk)		53.64	68.23	-14.59
	11420 (Av)		41.89	54	-12.11
	17130 (Pk)		55.83	68.23	-12.40
	17130 (Av)		43.41	54	-10.59
5755	5755 (Pk)	Vertical	99.06	-	-
	5755 (Av)		80.76	-	-
	5715(Pk)		61.61	78.20*	-16.59
	5725(Pk)		65.17	78.20*	-13.03
	11510 (Pk)		54.54	68.23	-13.69
	11510 (Av)		42.82	54	-11.18
	17265(Pk)		54.67	68.23	-13.56
	17265(Av)		43.48	54	-10.52
	5755 (Pk)	Horizontal	101.34	-	-
	5755 (Av)		83.50	-	-
	5715(Pk)		64.43	78.20*	-13.77
	5725(Pk)		67.07	78.20*	-11.13
	11510 (Pk)		55.05	68.23	-13.18
	11510 (Av)		42.68	54	-11.32
	17265(Pk)		55.36	68.23	-12.87
	17265(Av)		43.52	54	-10.48

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 258 von 285

Page 258 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	99.01	-	-
	5795 (Av)		81.07	-	-
	5850 (Pk)		53.22	78.20*	-24.98
	5860 (Pk)		52.00	78.20*	-26.2
	11590 (Pk)		54.28	68.23	-13.95
	11590 (Av)		42.13	54	-11.87
	17385 (Pk)		56.39	68.23	-11.84
	17385 (Av)		43.86	54	-10.14
	5795 (Pk)	Horizontal	100.11	-	-
	5795 (Av)		82.42	-	-
	5850 (Pk)		54.73	78.20*	-23.47
	5860 (Pk)		53.60	78.20*	-24.6
	11590 (Pk)		54.23	68.23	-14
	11590 (Av)		42.12	54	-11.88
	17385 (Pk)		56.03	68.23	-12.2
	17385 (Pk)		43.89	54	-10.11

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 259 von 285

Page 259 of 285

Modulation: 802.11ax _ HE 40MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	98.42	-	-
	5190 (Av)		84.18	-	-
	5150 (Pk)		62.96	74*	-11.04
	5150 (Av)		45.27	54*	-8.73
	10380 (Pk)		51.36	68.23	-16.87
	10380 (Av)		39.73	54	-14.27
	15570 (Pk)		52.12	68.23	-16.11
	15570 (Av)		41.27	54	-12.73
	5190 (Pk)	Horizontal	100.25	-	-
	5190 (Av)		85.75	-	-
	5150 (Pk)		65.03	74*	-8.97
	5150 (Av)		47.30	54*	-6.70
	10380 (Pk)		51.63	68.23	-16.60
	10380 (Av)		39.75	54	-14.25
	15570 (Pk)		52.60	68.23	-15.63
	15570 (Av)		41.27	54	-12.73
5230	5230 (Pk)	Vertical	102.67	-	-
	5230 (Av)		88.13	-	-
	5350 (Pk)		56.39	74*	-17.61
	5350 (Av)		41.60	54*	-12.40
	10460 (Pk)		51.61	68.23	-16.62
	10460 (Av)		40.11	54	-13.89
	15690 (Pk)		52.72	68.23	-15.51
	15690 (Av)		40.95	54	-13.05
	5230 (Pk)	Horizontal	104.35	-	-
	5230 (Av)		89.87	-	-
	5350 (Pk)		56.69	74*	-17.31
	5350 (Av)		41.52	54*	-12.48
	10460 (Pk)		52.85	68.23	-15.38
	10460 (Av)		40.16	54	-13.84
	15690 (Pk)		53.24	68.23	-14.99
	15690 (Av)		41.00	54	-13.00
5270	5270 (Pk)	Vertical	104.09	-	-
	5270 (Av)		89.15	-	-
	5350 (Pk)		62.75	74*	-11.25
	5350 (Av)		47.23	54*	-6.77
	10540 (Pk)		52.99	68.23	-15.24
	10540 (Av)		40.30	54	-13.70
	15810 (Pk)		53.31	68.23	-14.92
	15810 (Av)		40.85	54	-13.15
	5270 (Pk)	Horizontal	105.84	-	-
	5270 (Av)		91.11	-	-
	5350 (Pk)		63.15	74*	-10.85
	5350 (Av)		48.54	54*	-5.46
	10540 (Pk)		53.30	68.23	-14.93
	10540 (Av)		40.29	54	-13.71
	15810 (Pk)		53.05	68.23	-15.18
	15810 (Av)		40.87	54	-13.13

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 260 von 285

Page 260 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5310	5310 (Pk)	Vertical	99.05	-	-
	5310 (Av)		85.42	-	-
	5350 (Pk)		61.24	74*	-12.76
	5350 (Av)		44.13	54*	-9.87
	10620 (Pk)		51.84	68.23	-16.39
	10620 (Av)		40.35	54	-13.65
	15930 (Pk)		53.25	68.23	-14.98
	15930 (Av)		41.26	54	-12.74
	5310 (Pk)	Horizontal	100.56	-	-
	5310 (Av)		86.19	-	-
	5350 (Pk)		64.12	74*	-9.88
	5350 (Av)		46.29	54*	-7.71
	10620 (Pk)		51.49	68.23	-16.74
	10620 (Av)		40.28	54	-13.72
	15930 (Pk)		52.09	68.23	-16.14
	15930 (Av)		41.28	54	-12.72
5510	5510 (Pk)	Vertical	97.56	-	-
	5510 (Av)		82.83	-	-
	5460 (Pk)		54.72	74*	-19.28
	5460 (Av)		36.29	54*	-17.71
	11020 (Pk)		52.87	68.23	-15.36
	11020 (Av)		41.03	54	-12.97
	16530 (Pk)		54.29	68.23	-13.94
	16530 (Av)		43.15	54	-10.85
	5510 (Pk)	Horizontal	98.48	-	-
	5510 (Av)		84.40	-	-
	5460 (Pk)		54.64	74*	-19.36
	5460 (Av)		36.91	54*	-17.09
	11020 (Pk)		53.39	68.23	-14.84
	11020 (Av)		41.02	54	-12.98
	16530 (Pk)		54.26	68.23	-13.97
	16530 (Av)		43.18	54	-10.82
5590	5590 (Pk)	Vertical	104.24	-	-
	5590 (Av)		89.91	-	-
	5460 (Pk)		57.88	74*	-16.12
	5460 (Av)		43.00	54*	-11.00
	11180 (Pk)		52.29	68.23	-15.94
	11180 (Av)		40.66	54	-13.34
	16770 (Pk)		55.29	68.23	-12.94
	16770 (Av)		43.85	54	-10.15
	5590 (Pk)	Horizontal	105.79	-	-
	5590 (Av)		91.68	-	-
	5460 (Pk)		57.18	74*	-16.82
	5460 (Av)		42.40	54*	-11.60
	11180 (Pk)		52.99	68.23	-15.24
	11180 (Av)		40.65	54	-13.35
	16770 (Pk)		55.70	68.23	-12.53
	16770 (Av)		43.91	54	-10.09

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 261 von 285

Page 261 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5670	5670 (Pk)	Vertical	100.80	-	-
	5670 (Av)		86.11	-	-
	5460 (Pk)		43.24	74*	-30.76
	5460 (Av)		30.84	54*	-23.16
	11340 (Pk)		54.16	68.23	-14.07
	11340 (Av)		41.26	54	-12.74
	17010 (Pk)		55.72	68.23	-12.51
	17010 (Av)		43.38	54	-10.62
	5670 (Pk)	Horizontal	101.31	-	-
	5670 (Av)		86.64	-	-
	5460 (Pk)		43.27	74*	-30.73
	5460 (Av)		30.80	54*	-23.20
	11340 (Pk)		52.99	68.23	-15.24
	11340 (Av)		41.23	54	-12.77
	17010 (Pk)		54.37	68.23	-13.86
	17010 (Av)		43.35	54	-10.65
5710	5710 (Pk)	Vertical	105.59	-	-
	5710 (Av)		90.99	-	-
	5460 (Pk)		44.57	74*	-29.43
	5460 (Av)		31.33	54*	-22.67
	11420 (Pk)		53.87	68.23	-14.36
	11420 (Av)		42.01	54	-11.99
	17130 (Pk)		55.56	68.23	-12.67
	17130 (Av)		43.42	54	-10.58
	5710 (Pk)	Horizontal	106.11	-	-
	5710 (Av)		91.73	-	-
	5460 (Pk)		44.96	74*	-29.04
	5460 (Av)		31.32	54*	-22.68
	11420 (Pk)		54.62	68.23	-13.61
	11420 (Av)		41.97	54	-12.03
	17130 (Pk)		55.10	68.23	-13.13
	17130 (Av)		43.41	54	-10.59
5755	5755 (Pk)	Vertical	101.11	-	-
	5755 (Av)		86.60	-	-
	5715(Pk)		66.44	78.20*	-11.76
	5725(Pk)		69.74	78.20*	-8.46
	11510 (Pk)		54.05	68.23	-14.18
	11510 (Av)		42.79	54	-11.21
	17265(Pk)		55.69	68.23	-12.54
	17265(Av)		43.52	54	-10.48
	5755 (Pk)	Horizontal	103.55	-	-
	5755 (Av)		89.12	-	-
	5715(Pk)		69.55	78.20*	-8.65
	5725(Pk)		72.67	78.20*	-5.53
	11510 (Pk)		53.94	68.23	-14.29
	11510 (Av)		42.77	54	-11.23
	17265(Pk)		54.97	68.23	-13.26
	17265(Av)		43.52	54	-10.48

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 262 von 285

Page 262 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	100.95	-	-
	5795 (Av)		86.48	-	-
	5850 (Pk)		55.97	78.20*	-22.23
	5860 (Pk)		53.27	78.20*	-24.93
	11590 (Pk)		53.66	68.23	-14.57
	11590 (Av)		42.23	54	-11.77
	17385 (Pk)		56.46	68.23	-11.77
	17385 (Av)		43.82	54	-10.18
	5795 (Pk)	Horizontal	102.51	-	-
	5795 (Av)		88.13	-	-
	5850 (Pk)		57.41	78.20*	-20.79
	5860 (Pk)		52.91	78.20*	-25.29
	11590 (Pk)		53.61	68.23	-14.62
	11590 (Av)		42.11	54	-11.89
	17385 (Pk)		55.60	68.23	-12.63
	17385 (Pk)		43.81	54	-10.19

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 263 von 285

Page 263 of 285

Modulation: 802.11ax _ HE 40MHz

Data rate: MCS11

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	97.68	-	-
	5190 (Av)		78.06	-	-
	5150 (Pk)		58.63	74*	-15.37
	5150 (Av)		39.55	54*	-14.45
	10380 (Pk)		51.18	68.23	-17.05
	10380 (Av)		39.77	54	-14.23
	15570 (Pk)		53.14	68.23	-15.09
	15570 (Av)		41.29	54	-12.71
	5190 (Pk)	Horizontal	99.42	-	-
	5190 (Av)		79.88	-	-
	5150 (Pk)		61.17	74*	-12.83
	5150 (Av)		41.03	54*	-12.97
	10380 (Pk)		51.17	68.23	-17.06
	10380 (Av)		39.77	54	-14.23
	15570 (Pk)		52.89	68.23	-15.34
	15570 (Av)		41.29	54	-12.71
5230	5230 (Pk)	Vertical	97.84	-	-
	5230 (Av)		78.34	-	-
	5350 (Pk)		46.16	74*	-27.84
	5350 (Av)		31.46	54*	-22.54
	10460 (Pk)		52.05	68.23	-16.18
	10460 (Av)		40.11	54	-13.89
	15690 (Pk)		52.55	68.23	-15.68
	15690 (Av)		40.93	54	-13.07
	5230 (Pk)	Horizontal	99.54	-	-
	5230 (Av)		80.15	-	-
	5350 (Pk)		45.40	74*	-28.60
	5350 (Av)		31.54	54*	-22.46
	10460 (Pk)		51.51	68.23	-16.72
	10460 (Av)		40.10	54	-13.90
	15690 (Pk)		52.20	68.23	-16.03
	15690 (Av)		41.01	54	-12.99
5270	5270 (Pk)	Vertical	97.19	-	-
	5270 (Av)		77.02	-	-
	5350 (Pk)		44.93	74*	-29.07
	5350 (Av)		31.28	54*	-22.72
	10540 (Pk)		52.39	68.23	-15.84
	10540 (Av)		40.22	54	-13.78
	15810 (Pk)		51.94	68.23	-16.29
	15810 (Av)		40.77	54	-13.23
	5270 (Pk)	Horizontal	97.73	-	-
	5270 (Av)		78.20	-	-
	5350 (Pk)		45.43	74*	-28.57
	5350 (Av)		31.57	54*	-22.43
	10540 (Pk)		52.14	68.23	-16.09
	10540 (Av)		40.24	54	-13.76
	15810 (Pk)		52.72	68.23	-15.51
	15810 (Av)		40.81	54	-13.19

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 264 von 285

Page 264 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5310	5310 (Pk)	Vertical	97.37	-	-
	5310 (Av)		77.22	-	-
	5350 (Pk)		54.47	74*	-19.53
	5350 (Av)		34.93	54*	-19.07
	10620 (Pk)		51.22	68.23	-17.01
	10620 (Av)		40.23	54	-13.77
	15930 (Pk)		53.19	68.23	-15.04
	15930 (Av)		41.24	54	-12.76
	5310 (Pk)	Horizontal	97.86	-	-
	5310 (Av)		78.32	-	-
	5350 (Pk)		57.01	74*	-16.99
	5350 (Av)		36.79	54*	-17.21
	10620 (Pk)		52.19	68.23	-16.04
	10620 (Av)		40.29	54	-13.71
	15930 (Pk)		53.23	68.23	-15.00
	15930 (Av)		41.25	54	-12.75
5510	5510 (Pk)	Vertical	96.54	-	-
	5510 (Av)		77.26	-	-
	5460 (Pk)		52.83	74*	-21.17
	5460 (Av)		33.39	54*	-20.61
	11020 (Pk)		52.87	68.23	-15.36
	11020 (Av)		40.98	54	-13.02
	16530 (Pk)		54.96	68.23	-13.27
	16530 (Av)		43.17	54	-10.83
	5510 (Pk)	Horizontal	97.96	-	-
	5510 (Av)		78.70	-	-
	5460 (Pk)		54.07	74*	-19.93
	5460 (Av)		34.61	54*	-19.39
	11020 (Pk)		52.58	68.23	-15.65
	11020 (Av)		41.00	54	-13.00
	16530 (Pk)		54.63	68.23	-13.60
	16530 (Av)		43.12	54	-10.88
5590	5590 (Pk)	Vertical	95.89	-	-
	5590 (Av)		75.71	-	-
	5460 (Pk)		43.02	74*	-30.98
	5460 (Av)		30.48	54*	-23.52
	11180 (Pk)		52.13	68.23	-16.10
	11180 (Av)		40.63	54	-13.37
	16770 (Pk)		54.80	68.23	-13.43
	16770 (Av)		43.82	54	-10.18
	5590 (Pk)	Horizontal	97.76	-	-
	5590 (Av)		78.53	-	-
	5460 (Pk)		43.42	74*	-30.58
	5460 (Av)		30.72	54*	-23.28
	11180 (Pk)		52.68	68.23	-15.55
	11180 (Av)		40.69	54	-13.31
	16770 (Pk)		55.45	68.23	-12.78
	16770 (Av)		43.84	54	-10.16

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 265 von 285

Page 265 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5670	5670 (Pk)	Vertical	96.99	-	-
	5670 (Av)		77.59	-	-
	5460 (Pk)		43.11	74*	-30.89
	5460 (Av)		30.39	54*	-23.61
	11340 (Pk)		53.73	68.23	-14.50
	11340 (Av)		41.23	54	-12.77
	17010 (Pk)		54.76	68.23	-13.47
	17010 (Av)		43.41	54	-10.59
	5670 (Pk)	Horizontal	97.85	-	-
	5670 (Av)		78.55	-	-
	5460 (Pk)		42.80	74*	-31.20
	5460 (Av)		30.45	54*	-23.55
	11340 (Pk)		53.71	68.23	-14.52
	11340 (Av)		41.20	54	-12.80
	17010 (Pk)		54.85	68.23	-13.38
	17010 (Av)		43.37	54	-10.63
5710	5710 (Pk)	Vertical	96.98	-	-
	5710 (Av)		77.23	-	-
	5460 (Pk)		42.95	74*	-31.05
	5460 (Av)		30.20	54*	-23.80
	11420 (Pk)		53.99	68.23	-14.24
	11420 (Av)		41.91	54	-12.09
	17130 (Pk)		55.25	68.23	-12.98
	17130 (Av)		43.47	54	-10.53
	5710 (Pk)	Horizontal	97.45	-	-
	5710 (Av)		78.60	-	-
	5460 (Pk)		43.46	74*	-30.54
	5460 (Av)		30.30	54*	-23.70
	11420 (Pk)		54.50	68.23	-13.73
	11420 (Av)		41.96	54	-12.04
	17130 (Pk)		56.14	68.23	-12.09
	17130 (Av)		43.46	54	-10.54
5755	5755 (Pk)	Vertical	97.38	-	-
	5755 (Av)		77.96	-	-
	5715(Pk)		57.57	78.20*	-20.63
	5725(Pk)		59.64	78.20*	-18.56
	11510 (Pk)		54.28	68.23	-13.95
	11510 (Av)		42.66	54	-11.34
	17265(Pk)		55.70	68.23	-12.53
	17265(Av)		43.53	54	-10.47
	5755 (Pk)	Horizontal	97.84	-	-
	5755 (Av)		78.26	-	-
	5715(Pk)		58.58	78.20*	-19.62
	5725(Pk)		59.91	78.20*	-18.29
	11510 (Pk)		53.66	68.23	-14.57
	11510 (Av)		42.72	54	-11.28
	17265(Pk)		55.26	68.23	-12.97
	17265(Av)		43.52	54	-10.48

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 266 von 285

Page 266 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	97.17	-	-
	5795 (Av)		78.83	-	-
	5850 (Pk)		48.27	78.20*	-29.93
	5860 (Pk)		46.30	78.20*	-31.9
	11590 (Pk)		53.76	68.23	-14.47
	11590 (Av)		42.06	54	-11.94
	17385 (Pk)		55.19	68.23	-13.04
	17385 (Av)		43.84	54	-10.16
	5795 (Pk)	Horizontal	98.56	-	-
	5795 (Av)		78.94	-	-
	5850 (Pk)		49.31	78.20*	-28.89
	5860 (Pk)		46.53	78.20*	-31.67
	11590 (Pk)		54.49	68.23	-13.74
	11590 (Av)		42.09	54	-11.91
	17385 (Pk)		54.91	68.23	-13.32
	17385 (Pk)		43.84	54	-10.16

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 267 von 285

Page 267 of 285

Modulation: 802.11ac _ VHT 80MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	92.07	-	-
	5210 (Av)		77.61	-	-
	5150 (Pk)		61.54	74*	-12.46
	5150 (Av)		45.65	54*	-8.35
	10420 (Pk)		51.88	68.23	-16.35
	10420 (Av)		39.50	54	-14.50
	15630 (Pk)		53.44	68.23	-14.79
	15630 (Av)		40.96	54	-13.04
	5210 (Pk)	Horizontal	93.19	-	-
	5210 (Av)		78.06	-	-
	5150 (Pk)		65.73	74*	-8.27
	5150 (Av)		50.02	54*	-3.98
	10420 (Pk)		53.15	68.23	-15.08
	10420 (Av)		39.23	54	-14.77
	15630 (Pk)		53.24	68.23	-14.99
	15630 (Av)		40.93	54	-13.07
5290	5290 (Pk)	Vertical	91.74	-	-
	5290 (Av)		77.59	-	-
	5350 (Pk)		58.57	74*	-15.43
	5350 (Av)		41.13	54*	-12.87
	10580 (Pk)		51.86	68.23	-16.37
	10580 (Av)		39.75	54	-14.25
	15870 (Pk)		53.27	68.23	-14.96
	15870 (Av)		40.82	54	-13.18
	5290 (Pk)	Horizontal	92.81	-	-
	5290 (Av)		78.14	-	-
	5350 (Pk)		59.21	74*	-14.79
	5350 (Av)		41.63	54*	-12.37
	10580 (Pk)		51.64	68.23	-16.59
	10580 (Av)		39.77	54	-14.23
	15870 (Pk)		52.44	68.23	-15.79
	15870 (Av)		40.87	54	-13.13
5530	5530 (Pk)	Vertical	91.91	-	-
	5530 (Av)		76.78	-	-
	5460 (Pk)		51.69	74*	-22.31
	5460 (Av)		36.13	54*	-17.87
	11060 (Pk)		52.52	68.23	-15.71
	11060 (Av)		40.46	54	-13.54
	16590 (Pk)		54.76	68.23	-13.47
	16590 (Av)		43.19	54	-10.81
	5530 (Pk)	Horizontal	89.74	-	-
	5530 (Av)		73.81	-	-
	5460 (Pk)		48.85	74*	-25.15
	5460 (Av)		33.49	54*	-20.51
	11060 (Pk)		51.84	68.23	-16.39
	11060 (Av)		40.44	54	-13.56
	16590 (Pk)		55.44	68.23	-12.79
	16590 (Av)		43.22	54	-10.78

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:
Test Report No.:

IN23ESPY 001

Seite 268 von 285
Page 268 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5690	5690 (Pk)	Vertical	95.76	-	-
	5690 (Av)		80.40	-	-
	5460 (Pk)		51.10	74*	-22.90
	5460 (Av)		34.98	54*	-19.02
	11380 (Pk)		52.66	68.23	-15.57
	11380 (Av)		41.18	54	-12.82
	17070 (Pk)		55.09	68.23	-13.14
	17070 (Av)		43.84	54	-10.16
	5690 (Pk)	Horizontal	93.61	-	-
	5690 (Av)		76.80	-	-
	5460 (Pk)		48.73	74*	-25.27
	5460 (Av)		33.13	54*	-20.87
	11380 (Pk)		53.19	68.23	-15.04
	11380 (Av)		41.16	54	-12.84
	17070 (Pk)		56.03	68.23	-12.20
	17070 (Av)		43.83	54	-10.17
5775	5775 (Pk)	Vertical	95.10	-	-
	5775 (Av)		80.00	-	-
	11550 (Pk)		54.24	68.23	-13.99
	11550 (Av)		42.03	54	-11.97
	17325 (Pk)		57.25	68.23	-10.98
	17325 (Av)		44.79	54	-9.21
	5775 (Pk)	Horizontal	93.62	-	-
	5775 (Av)		77.18	-	-
	11550 (Pk)		53.62	68.23	-14.61
	11550 (Av)		41.99	54	-12.01
	17325 (Pk)		56.40	68.23	-11.83
	17325 (Av)		44.75	54	-9.25

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 269 von 285

Page 269 of 285

Modulation: 802.11ac _ VHT 80MHz

Data rate: MCS9

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	90.73	-	-
	5210 (Av)		71.04	-	-
	5150 (Pk)		51.81	74*	-22.19
	5150 (Av)		34.58	54*	-19.42
	10420 (Pk)		50.94	68.23	-17.29
	10420 (Av)		39.08	54	-14.92
	15630 (Pk)		52.89	68.23	-15.34
	15630 (Av)		40.96	54	-13.04
	5210 (Pk)	Horizontal	94.67	-	-
	5210 (Av)		73.46	-	-
	5150 (Pk)		54.35	74*	-19.65
	5150 (Av)		36.9	54*	-17.10
	10420 (Pk)		51.52	68.23	-16.71
	10420 (Av)		39.16	54	-14.84
	15630 (Pk)		52.59	68.23	-15.64
	15630 (Av)		41.02	54	-12.98
5290	5290 (Pk)	Vertical	90.04	-	-
	5290 (Av)		69.48	-	-
	5350 (Pk)		51.51	74*	-22.49
	5350 (Av)		33.31	54*	-20.69
	10580 (Pk)		51.7	68.23	-16.53
	10580 (Av)		39.68	54	-14.32
	15870 (Pk)		52.86	68.23	-15.37
	15870 (Av)		40.76	54	-13.24
	5290 (Pk)	Horizontal	92.79	-	-
	5290 (Av)		71.71	-	-
	5350 (Pk)		52.25	74*	-21.75
	5350 (Av)		34.86	54*	-19.14
	10580 (Pk)		51.26	68.23	-16.97
	10580 (Av)		39.63	54	-14.37
	15870 (Pk)		52.45	68.23	-15.78
	15870 (Av)		40.71	54	-13.29
5530	5530 (Pk)	Vertical	92.07	-	-
	5530 (Av)		71.91	-	-
	5460 (Pk)		49.55	74*	-24.45
	5460 (Av)		32.91	54*	-21.09
	11060 (Pk)		51.83	68.23	-16.40
	11060 (Av)		40.43	54	-13.57
	16590 (Pk)		54.6	68.23	-13.63
	16590 (Av)		43.19	54	-10.81
	5530 (Pk)	Horizontal	92.39	-	-
	5530 (Av)		72.96	-	-
	5460 (Pk)		49.50	74*	-24.50
	5460 (Av)		33.20	54*	-20.80
	11060 (Pk)		52.57	68.23	-15.66
	11060 (Av)		40.40	54	-13.60
	16590 (Pk)		55.06	68.23	-13.17
	16590 (Av)		43.18	54	-10.82

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 270 von 285

Page 270 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5690	5690 (Pk)	Vertical	91.09	-	-
	5690 (Av)		72.01	-	-
	5460 (Pk)		42.98	74*	-31.02
	5460 (Av)		30.79	54*	-23.21
	11380 (Pk)		53.80	68.23	-14.43
	11380 (Av)		41.11	54	-12.89
	17070 (Pk)		56.75	68.23	-11.48
	17070 (Av)		43.82	54	-10.18
	5690 (Pk)	Horizontal	92.50	-	-
	5690 (Av)		72.38	-	-
	5460 (Pk)		43.15	74*	-30.85
	5460 (Av)		30.62	54*	-23.38
	11380 (Pk)		54.21	68.23	-14.02
	11380 (Av)		41.21	54	-12.79
	17070 (Pk)		56.45	68.23	-11.78
	17070 (Av)		43.92	54	-10.08
5775	5775 (Pk)	Vertical	92.29	-	-
	5775 (Av)		72.15	-	-
	11550 (Pk)		53.86	68.23	-14.37
	11550 (Av)		42.05	54	-11.95
	17325 (Pk)		56.29	68.23	-11.94
	17325 (Av)		44.76	54	-9.24
	5775 (Pk)	Horizontal	89.57	-	-
	5775 (Av)		69.51	-	-
	11550 (Pk)		54.31	68.23	-13.92
	11550 (Av)		42.03	54	-11.97
	17325 (Pk)		56.12	68.23	-12.11
	17325 (Av)		44.82	54	-9.18

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av : Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 271 von 285

Page 271 of 285

Modulation: 802.11ax _ HE 80MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	96.18	-	-
	5210 (Av)		80.50	-	-
	5150 (Pk)		62.78	74*	-11.22
	5150 (Av)		43.08	54*	-10.92
	10420 (Pk)		51.02	68.23	-17.21
	10420 (Av)		39.15	54	-14.85
	15630 (Pk)		52.66	68.23	-15.57
	15630 (Av)		40.95	54	-13.05
	5210 (Pk)	Horizontal	98.66	-	-
	5210 (Av)		82.88	-	-
	5150 (Pk)		64.74	74*	-9.26
	5150 (Av)		45.41	54*	-8.59
	10420 (Pk)		50.79	68.23	-17.44
	10420 (Av)		39.11	54	-14.89
	15630 (Pk)		52.00	68.23	-16.23
	15630 (Av)		40.99	54	-13.01
5290	5290 (Pk)	Vertical	92.31	-	-
	5290 (Av)		75.43	-	-
	5350 (Pk)		59.85	74*	-14.15
	5350 (Av)		42.20	54*	-11.80
	10580 (Pk)		51.64	68.23	-16.59
	10580 (Av)		39.67	54	-14.33
	15870 (Pk)		53.30	68.23	-14.93
	15870 (Av)		40.75	54	-13.25
	5290 (Pk)	Horizontal	99.80	-	-
	5290 (Av)		83.71	-	-
	5350 (Pk)		63.66	74*	-10.34
	5350 (Av)		45.87	54*	-8.13
	10580 (Pk)		52.45	68.23	-15.78
	10580 (Av)		39.75	54	-14.25
	15870 (Pk)		52.45	68.23	-15.78
	15870 (Av)		40.75	54	-13.25
5530	5530 (Pk)	Vertical	96.17	-	-
	5530 (Av)		80.01	-	-
	5460 (Pk)		53.89	74*	-20.11
	5460 (Av)		37.49	54*	-16.51
	11060 (Pk)		52.17	68.23	-16.06
	11060 (Av)		40.42	54	-13.58
	16590 (Pk)		54.57	68.23	-13.66
	16590 (Av)		43.10	54	-10.90
	5530 (Pk)	Horizontal	98.47	-	-
	5530 (Av)		82.59	-	-
	5460 (Pk)		55.12	74*	-18.88
	5460 (Av)		37.37	54*	-16.63
	11060 (Pk)		51.83	68.23	-16.40
	11060 (Av)		40.45	54	-13.55
	16590 (Pk)		54.76	68.23	-13.47
	16590 (Av)		43.10	54	-10.90

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 272 von 285

Page 272 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5690	5690 (Pk)	Vertical	97.01	-	-
	5690 (Av)		81.74	-	-
	5460 (Pk)		47.73	74*	-26.27
	5460 (Av)		33.46	54*	-20.54
	11380 (Pk)		52.14	68.23	-16.09
	11380 (Av)		41.12	54	-12.88
	17070 (Pk)		55.55	68.23	-12.68
	17070 (Av)		43.89	54	-10.11
	5690 (Pk)	Horizontal	100.82	-	-
	5690 (Av)		84.80	-	-
	5460 (Pk)		51.54	74*	-22.46
	5460 (Av)		36.01	54*	-17.99
	11380 (Pk)		53.39	68.23	-14.84
	11380 (Av)		41.13	54	-12.87
	17070 (Pk)		55.23	68.23	-13.00
	17070 (Av)		43.90	54	-10.10
5775	5775 (Pk)	Vertical	99.86	-	-
	5775 (Av)		83.59	-	-
	11550 (Pk)		52.95	68.23	-15.28
	11550 (Av)		42.04	54	-11.96
	17325 (Pk)		56.14	68.23	-12.09
	17325 (Av)		44.76	54	-9.24
	5775 (Pk)	Horizontal	100.55	-	-
	5775 (Av)		84.64	-	-
	11550 (Pk)		54.01	68.23	-14.22
	11550 (Av)		42.03	54	-11.97
	17325 (Pk)		56.60	68.23	-11.63
	17325 (Av)		44.73	54	-9.27

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 273 von 285

Page 273 of 285

Modulation: 802.11ax _ HE 80MHz

Data rate: MCS11

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	90.00	-	-
	5210 (Av)		69.64	-	-
	5150 (Pk)		47.61	74*	-26.39
	5150 (Av)		32.02	54*	-21.98
	10420 (Pk)		50.93	68.23	-17.30
	10420 (Av)		39.15	54	-14.85
	15630 (Pk)		53.47	68.23	-14.76
	15630 (Av)		40.98	54	-13.02
	5210 (Pk)	Horizontal	91.46	-	-
	5210 (Av)		71.89	-	-
	5150 (Pk)		48.25	74*	-25.75
	5150 (Av)		32.62	54*	-21.38
	10420 (Pk)		50.61	68.23	-17.62
	10420 (Av)		39.10	54	-14.90
	15630 (Pk)		52.73	68.23	-15.50
	15630 (Av)		41.00	54	-13.00
5290	5290 (Pk)	Vertical	89.56	-	-
	5290 (Av)		69.77	-	-
	5350 (Pk)		49.16	74*	-24.84
	5350 (Av)		31.81	54*	-22.19
	10580 (Pk)		51.96	68.23	-16.27
	10580 (Av)		39.70	54	-14.30
	15870 (Pk)		53.90	68.23	-14.33
	15870 (Av)		40.74	54	-13.26
	5290 (Pk)	Horizontal	91.28	-	-
	5290 (Av)		72.71	-	-
	5350 (Pk)		50.11	74*	-23.89
	5350 (Av)		32.94	54*	-21.06
	10580 (Pk)		52.04	68.23	-16.19
	10580 (Av)		39.69	54	-14.31
	15870 (Pk)		52.98	68.23	-15.25
	15870 (Av)		40.74	54	-13.26
5530	5530 (Pk)	Vertical	92.55	-	-
	5530 (Av)		72.22	-	-
	5460 (Pk)		47.49	74*	-26.51
	5460 (Av)		31.61	54*	-22.39
	11060 (Pk)		52.68	68.23	-15.55
	11060 (Av)		40.46	54	-13.54
	16590 (Pk)		55.77	68.23	-12.46
	16590 (Av)		43.19	54	-10.81
	5530 (Pk)	Horizontal	93.07	-	-
	5530 (Av)		73.19	-	-
	5460 (Pk)		47.12	74*	-26.88
	5460 (Av)		31.90	54*	-22.10
	11060 (Pk)		52.05	68.23	-16.18
	11060 (Av)		40.39	54	-13.61
	16590 (Pk)		54.59	68.23	-13.64
	16590 (Av)		43.16	54	-10.84

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 274 von 285

Page 274 of 285

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5690	5690 (Pk)	Vertical	92.00	-	-
	5690 (Av)		72.09	-	-
	5460 (Pk)		43.65	74*	-30.35
	5460 (Av)		30.45	54*	-23.55
	11380 (Pk)		52.73	68.23	-15.50
	11380 (Av)		41.17	54	-12.83
	17070 (Pk)		55.24	68.23	-12.99
	17070 (Av)		43.88	54	-10.12
	5690 (Pk)	Horizontal	92.65	-	-
	5690 (Av)		73.01	-	-
	5460 (Pk)		43.56	74*	-30.44
	5460 (Av)		30.76	54*	-23.24
	11380 (Pk)		53.37	68.23	-14.86
	11380 (Av)		41.20	54	-12.80
	17070 (Pk)		55.91	68.23	-12.32
	17070 (Av)		43.85	54	-10.15
5775	5775 (Pk)	Vertical	90.96	-	-
	5775 (Av)		70.37	-	-
	11550 (Pk)		54.58	68.23	-13.65
	11550 (Av)		42.04	54	-11.96
	17325 (Pk)		56.91	68.23	-11.32
	17325 (Av)		44.76	54	-9.24
	5775 (Pk)	Horizontal	91.36	-	-
	5775 (Av)		71.08	-	-
	11550 (Pk)		54.60	68.23	-13.63
	11550 (Av)		42.05	54	-11.95
	17325 (Pk)		56.75	68.23	-11.48
	17325 (Av)		44.72	54	-9.28

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

8 Frequency Stability

Result

Pass

Test Specification

FCC part 15 Subpart C 15.407 (g) / RSS Gen Issue 5, Section 8.11

Test Method

Subclause 6.8.1 of ANSI C63.10

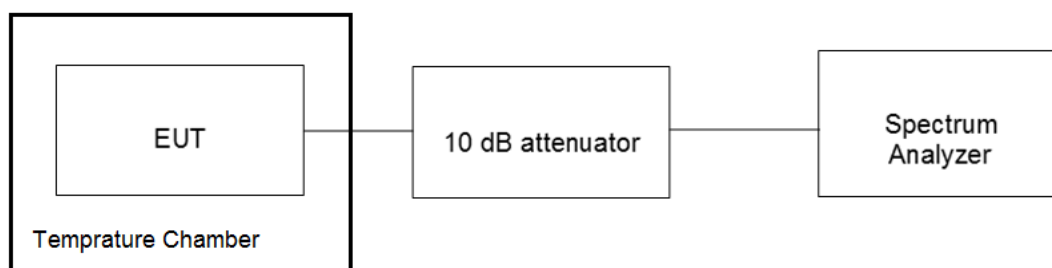
Port of testing

Antenna port

Requirement

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual

Test Method:



Test Condition:

Normal Test Condition:

Temperature (Norm) = + 25 °C

Voltage = 5.0V DC

Relative humidity: 62%

KDB Guidelines applied:

Measurements were made as per section 3 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 276 von 285

Page 276 of 285

Test results:

Channel Bandwidth (MHz)	Channel Frequency (MHz)	Temperature (°C)	Frequency deviation for different time interval (MHz)				Limit
			0Min	2Min	5Min	10Min	
20	5180	-20	-1.53	-1.08	-1.08	-1.08	Emission drift measured are maintained within the authorised band
		25	-0.06	0.30	0.06	0.33	
		60	-2.67	0.06	0.06	0.06	
	5240	-20	1.62	-2.37	-2.37	-2.37	
		25	-0.06	-0.87	-0.15	0.27	
		60	-0.45	0.12	0.09	0.09	
	5260	-20	-1.59	-1.08	-1.08	-1.08	
		25	-0.12	-2.10	-2.67	0.12	
		60	2.37	-0.15	-0.03	-0.03	
	5320	-20	-1.14	-2.37	-2.37	-2.37	
		25	0.24	0.18	0.36	0.21	
		60	0.33	-0.03	-0.03	-0.03	
	5500	-20	1.44	0.70	0.70	0.70	
		25	0.18	0.03	0.06	-0.18	
		60	-0.48	0.09	0.00	0.00	
	5700	-20	-1.17	-1.08	-1.08	-1.08	
		25	0.33	-0.03	0.12	-0.21	
		60	0.45	-0.09	-0.09	-0.06	
	5720	-20	0.54	-1.14	-1.14	-2.37	
		25	-0.18	0.18	0.06	0.18	
		60	-1.77	0.03	0.03	0.03	
	5745	-20	0.66	-2.37	-1.14	-1.14	
		25	0.74	0.33	-0.12	0.18	
		60	-1.41	2.34	-0.27	-0.15	
	5825	-20	-0.87	-1.56	1.56	-1.11	
		25	-0.09	0.33	0.27	0.84	
		60	-1.38	0.18	-0.03	-0.03	

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 277 von 285

Page 277 of 285

Channel Bandwidth (MHz)	Channel Frequency (MHz)	Temperature (°C)	Frequency deviation for different time interval (MHz)			Temperature (°C)	Limit
			0Min	2Min	5Min	10Min	
40	5190	-20	4.48	-9.60	-9.66	-9.66	Emission drift measured are maintained within the authorised band
		25	-9.78	-9.60	-9.90	-9.66	
		60	-15.00	-9.84	-9.78	-9.72	
	5230	-20	-5.64	-9.66	-9.78	-9.78	
		25	-15.90	-10.02	-10.02	-15.84	
		60	-16.02	-9.90	-9.78	-9.78	
	5270	-20	3.36	3.54	3.42	3.42	
		25	4.74	3.48	4.56	4.44	
		60	7.98	13.68	13.68	13.68	
	5310	-20	-6.36	-9.72	-9.84	-9.78	
		25	-9.72	-9.96	-9.72	-10.02	
		60	4.62	-9.84	-9.84	-9.84	
	5510	-20	-16.14	-9.96	-9.72	-9.78	
		25	-9.84	-9.48	-9.72	-9.60	
		60	-15.00	-9.84	-9.84	-9.84	
	5590	-20	2.94	-9.84	-9.84	-9.84	
		25	-9.84	-9.60	-9.60	-9.84	
		60	-6.18	-9.84	-9.84	-9.84	
	5670	-20	4.44	-9.78	-9.72	-9.72	
		25	-6.30	-9.54	-9.78	-10.00	
		60	4.80	-9.90	-9.90	-9.90	
	5710	-20	-16.08	-15.78	-15.78	-9.84	
		25	-15.90	-15.84	-15.72	-15.48	
		60	-7.56	-9.78	-9.84	-9.84	
	5755	-20	4.80	13.98	13.86	13.74	
		25	4.80	4.62	6.12	6.67	
		60	10.56	7.26	7.26	7.26	
	5795	-20	4.50	-9.96	-9.84	-9.72	
		25	2.70	3.36	3.66	3.48	
		60	6.18	-9.78	-9.78	-9.90	
80MHz	5210	-20	-12.10	15.80	15.80	15.80	
		25	2.00	8.00	15.70	6.10	
		60	12.60	15.60	15.70	15.80	
	5290	-20	30.20	30.20	15.90	15.90	
		25	19.10	24.80	30.30	29.90	
		60	5.90	15.70	15.90	15.90	
	5530	-20	-11.50	-12.00	-12.00	-12.00	
		25	-6.30	-8.90	-8.70	-6.20	
		60	-11.10	-2.70	-6.60	-11.00	
	5690	-20	-32.60	-30.40	-30.40	-30.40	
		25	8.00	6.00	8.20	7.80	
		60	-16.20	-31.00	-12.10	-12.10	
	5775	-20	-18.50	-30.60	-14.50	-11.90	
		25	-30.20	-30.50	-30.60	-30.20	
		60	-29.90	-14.60	-14.60	-14.60	

9 Conducted Spurious Emission test on AC Power Line

Result

Pass

Test Specification : FCC Part 15 Section 15.207 / RSS Gen Issue 5 Section 8.8

Test Method : ANSI C 63.10-2013

Testing Location : Screened room

Measurement Bandwidth : 9kHz

Frequency Range : 150kHz – 30MHz

Supply Voltage : 110VAC,60Hz

Test Method : Refer TEST METHODOLOGY

***Note: The product has tested with AC to DC adapter and Wireless Qi charger**

Limits of section 15.207

Frequency of emission (MHz)	QP Limit (dBμV)	AV Limit (dBμV/m)
0.15 – 0.5	66 – 56*	56 – 46*
0.5 – 5	56	46
5 – 30	60	50

* Decreases with the logarithm of the frequency

Test Conditions:

Normal Temperature = +24°C
RH = 64 %

Voltage (V norm) = 110V AC (Through AC to DC Adapter)

Prüfbericht - Nr.:

Test Report No.:

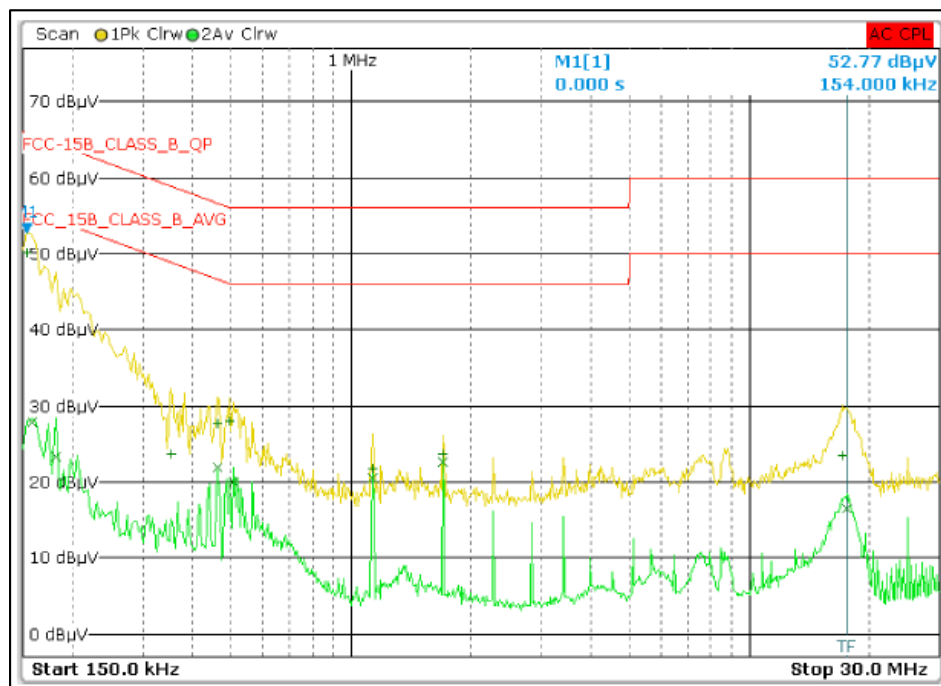
IN23ESPY 001

Seite 279 von 285

Page 279 of 285

Test result:

Power: 110V 60HZ_LINE



Line Graph

Trace	Frequency	Level (dBμV)	Phase	Detector	Delta Limit/dB
1	154.00000000 kHz	50.20		Quasi Peak	-15.58
2	1.70200000 MHz	22.70		Average	-23.30
2	462.00000000 kHz	21.96		Average	-24.70
2	1.13400000 MHz	20.59		Average	-25.41
2	506.00000000 kHz	19.96		Average	-26.04
2	158.00000000 kHz	27.82		Average	-27.75
1	494.00000000 kHz	27.97		Quasi Peak	-28.13
1	462.00000000 kHz	27.73		Quasi Peak	-28.93
2	182.00000000 kHz	23.32		Average	-31.07
1	1.70200000 MHz	23.69		Quasi Peak	-32.31
2	17.55800000 MHz	16.60		Average	-33.40
1	1.13400000 MHz	21.83		Quasi Peak	-34.17
1	354.00000000 kHz	23.74		Quasi Peak	-35.13
1	17.20600000 MHz	23.44		Quasi Peak	-36.56

Line Table

Prüfbericht - Nr.:

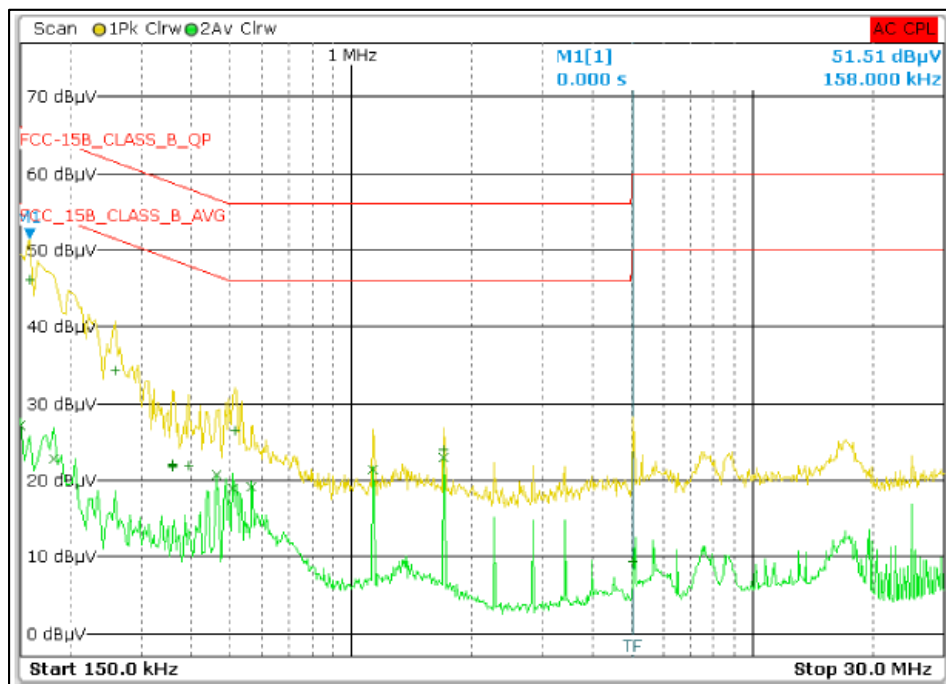
Test Report No.:

IN23ESPY 001

Seite 280 von 285

Page 280 of 285

Power: 110V60HZ_NEUTRAL



Neutral Graph

Trace	Frequency	Level (dBμV)	Phase	Detector	Delta Limit/dB
1	158.00000000 kHz	46.23		Quasi Peak	-19.34
2	1.702000000 MHz	23.02		Average	-22.98
2	1.134000000 MHz	21.40		Average	-24.60
2	462.00000000 kHz	20.64		Average	-26.02
2	566.00000000 kHz	19.17		Average	-26.83
2	506.00000000 kHz	18.92		Average	-27.08
1	258.00000000 kHz	34.31		Quasi Peak	-27.19
2	150.00000000 kHz	27.21		Average	-28.79
1	514.00000000 kHz	26.41		Quasi Peak	-29.59
2	182.00000000 kHz	22.79		Average	-31.60
1	1.702000000 MHz	24.01		Quasi Peak	-31.99
1	394.00000000 kHz	21.96		Quasi Peak	-36.02
1	394.00000000 kHz	21.90		Quasi Peak	-36.08
1	358.00000000 kHz	22.14		Quasi Peak	-36.63
1	358.00000000 kHz	21.94		Quasi Peak	-36.83
1	358.00000000 kHz	21.68		Quasi Peak	-37.09
1	5.034000000 MHz	9.29		Quasi Peak	-50.71

Neutral Table

10 LIST OF TABLES

Table 1: List of test and measurement instruments.....	6
Table 2: Instrument application Software versions.....	6
Table 3: Ratings and System Details as declared by the Client*	7
Table 4: Measurement Uncertainty	8
Table 5: List of Wi-Fi center Frequencies	10
Table 6: Undesirable emission limits	102
Table 7: Transmitter limits for Radiated emission	103

11 Power level used for testing

Antenna Type: MAF94367(Omni Directional Antenna)

6Mbps		HT20_MCS0		HT40_MCS0		HE40_MCS0	
5180	12	5180	10	5190	12	5190	12
5240	17	5240	17	5230	15	5230	15
5260	17	5260	17	5270	16	5270	16
5320	12	5320	12	5310	13	5310	13
5500	11	5500	11	5510	10	5510	10
5700	11	5700	10	5590	17	5590	17
5720	18	5720	17	5670	12	5670	12
5745	18	5745	17	5710	17	5710	17
5825	18	5825	17	5755	17	5755	17
54Mbps		HT20_MCS7		5795		5795	
5180	12	5180	11	HT40_MCS7		HE40_MCS11	
5240	16	5240	15	5190	12	5190	10
5260	16	5260	15	5230	14	5230	10
5320	12	5320	12	5270	14	5270	10
5500	11	5500	11	5310	13	5310	10
5700	11	5700	10	5510	10	5510	10
5720	16	5720	15	5590	14	5590	10
5745	16	5745	15	5670	12	5670	10
5825	16	5825	15	5710	14	5710	10
VHT20_MCS0		HE20_MCS0		5755	14	5755	10
5180	11	5180	11	5795	14	5795	10
5240	17	5240	17	VHT40_MCS0		VHT80_MCS0	
5260	17	5260	17	5190	12	5210	13
5320	12	5320	12	5230	15	5290	14
5500	11	5500	11	5270	16	5530	11
5700	10	5700	10	5310	13	5690	16
5720	18	5720	17	5510	10	5775	16
5745	16	5745	17	5590	16	VHT40_MCS9	
5825	18	5825	17	5670	12	5210	12
VHT20_MCS9		HE20_MCS11		5710	16	5290	12
5180	11	5180	10	5755	16	5530	11
5240	13	5240	10	5795	16	5690	12
5260	13	5260	10	VHT40_MCS9		5775	12
5320	12	5320	10	5190	12	HE80_MCS0	
5500	11	5500	10	5230	13	5190	13
5700	10	5700	10	5270	13	5230	14
5720	13	5720	10	5310	13	5270	11
5745	13	5745	10	5510	10	5310	16
5825	13	5825	11	5590	13	5510	16
				5670	12	HE80_MCS11	
				5710	13	5210	9
				5755	13	5290	9
				5795	13	5530	9
						5690	9
						5775	9

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 282 von 285

Page 282 of 285

Antenna Type: 1001932PT (Flex/PCB Antenna) U.FL Ports

6Mbps		HT20_MCS0		HT40_MCS0	
5180	10	5180	11	5190	10
5240	17	5240	17	5230	13
5260	17	5260	17	5270	16
5320	12	5320	12	5310	13
5500	11	5500	11	5510	10
5700	11	5700	10	5590	17
5720	18	5720	17	5670	12
5745	12	5745	16	5710	17
5825	18	5825	17	5755	13
54Mbps		HT20_MCS7		HT40_MCS7	
5180	12	5180	11	5190	10
5240	16	5240	15	5230	14
5260	16	5260	15	5270	14
5320	12	5320	12	5310	13
5500	11	5500	11	5510	10
5700	11	5700	10	5590	14
5720	16	5720	15	5670	12
5745	15	5745	15	5710	14
5825	16	5825	14	5755	14
VHT20_MCS0		HE20_MCS0		VHT40_MCS0	
5180	11	5180	11	5190	10
5240	17	5240	17	5230	14
5260	17	5260	17	5270	16
5320	11	5320	12	5310	13
5500	11	5500	11	5510	10
5700	10	5700	10	5590	16
5720	18	5720	17	5670	12
5745	12	5745	12	5710	16
5825	12	5825	13	5755	14
VHT20_MCS9		HE20_MCS11		VHT40_MCS9	
5180	11	5180	10	5190	10
5240	13	5240	10	5230	13
5260	13	5260	10	5270	13
5320	12	5320	10	5310	13
5500	11	5500	10	5510	10
5700	10	5700	10	5590	13
5720	13	5720	10	5670	12
5745	13	5745	10	5710	13
5825	13	5825	10	5755	13
				5795	13

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 283 von 285

Page 283 of 285

HE40_MCS0	
5190	10
5230	14
5270	16
5310	12
5510	10
5590	17
5670	12
5710	17
5755	13
5795	13
HE40_MCS11	
5190	10
5230	10
5270	10
5310	10
5510	10
5590	10
5670	10
5710	10
5755	10
5795	10
VHT80_MCS0	
5210	13
5290	14
5530	11
5690	16
5775	16
VHT40_MCS9	
5210	12
5290	12
5530	11
5690	12
5775	12
HE80_MCS0	
5190	13
5230	14
5270	11
5310	16
5510	16
HE80_MCS11	
5210	9
5290	9
5530	9
5690	9
5775	9

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 284 von 285

Page 284 of 285

Antenna Type: FPA3020 - 10 (Flex/PCB Antenna) U.FL Ports

6Mbps		HT20_MCS0		HT40_MCS0	
5180	12	5180	10	5190	10
5240	17	5240	17	5230	13
5260	17	5260	17	5270	16
5320	12	5320	12	5310	13
5500	11	5500	11	5510	10
5700	11	5700	12	5590	17
5720	18	5720	12	5670	12
5745	16	5745	12	5710	17
5825	16	5825	12	5755	13
54Mbps		HT20_MCS7		HT40_MCS7	
5180	12	5180	10	5190	10
5240	12	5240	17	5230	14
5260	12	5260	17	5270	14
5320	12	5320	12	5310	13
5500	11	5500	11	5510	10
5700	12	5700	12	5590	14
5720	16	5720	12	5670	12
5745	12	5745	12	5710	14
5825	16	5825	12	5755	14
				5795	14
VHT20_MCS0		HE20_MCS0		VHT40_MCS0	
5180	12	5180	12	5190	10
5240	12	5240	12	5230	14
5260	12	5260	12	5270	14
5320	12	5320	12	5310	13
5500	12	5500	12	5510	10
5700	12	5700	12	5590	16
5720	12	5720	12	5670	12
5745	14	5745	15	5710	16
5825	12	5825	12	5755	14
				5795	14
VHT20_MCS9		HE20_MCS11		VHT40_MCS9	
5180	12	5180	12	5190	10
5240	12	5240	12	5230	13
5260	12	5260	12	5270	13
5320	12	5320	12	5310	13
5500	12	5500	12	5510	10
5700	12	5700	12	5590	13
5720	12	5720	12	5670	12
5745	12	5745	12	5710	13
5825	12	5825	12	5755	13
				5795	13

Prüfbericht - Nr.:

Test Report No.:

IN23ESPY 001

Seite 285 von 285

Page 285 of 285

HE40_MCS0	
5190	10
5230	14
5270	16
5310	12
5510	10
5590	17
5670	12
5710	17
5755	13
5795	13
HE40_MCS11	
5190	10
5230	10
5270	10
5310	10
5510	10
5590	10
5670	10
5710	10
5755	10
5795	10
VHT80_MCS0	
5210	13
5290	14
5530	11
5690	16
5775	16
VHT40_MCS9	
5210	12
5290	12
5530	11
5690	12
5775	12
HE80_MCS0	
5190	13
5230	14
5270	11
5310	16
5510	16
HE80_MCS11	
5210	9
5290	9
5530	9
5690	9
5775	9

*****END OF TEST REPORT*****