

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070819\
 Data File : VL034010.D
 Acq On : 8 Jul 2019 13:19
 Operator : SY/AP
 Sample : VL0708ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0708ABS01

Manual Integrations
 APPROVED

MMDadoda
 7/10/2019 8:49:55 AM

Quant Time: Jul 09 04:10:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 09
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1143973	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2967458	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.21	117	3202686	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	2393432	8.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	1743113	7.384	ppbv 98
3) Chlorodifluoromethane	2.99	51	1341918	9.499	ppbv 100
4) Chloromethane	3.15	50	790813	9.736	ppbv 93
5) Vinyl Chloride	3.27	62	838518	9.180	ppbv 93
6) Bromomethane	3.49	94	541252	10.049	ppbv 92
7) Chloroethane	3.58	64	322948	9.893	ppbv 94
8) Dichlorotetrafluoroethane	3.20	85	2158381	9.377	ppbv 100
9) Propene	3.01	41	513645	9.884	ppbv 97
10) Heptane	8.21	43	1444374	11.100	ppbv 99
11) Trichlorofluoromethane	3.98	101	2268568	8.546	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1636529	8.710	ppbv 99
13) Ethanol	3.62	45	130994	8.114	ppbv 96
14) Bromoethene	3.76	108	705464	10.054	ppbv 98
15) Acetone	3.88	43	1545468	8.035	ppbv 98
16) 1,3-Butadiene	3.34	39	703748	10.362	ppbv 99
17) tert-Butyl alcohol	4.33	59	1359055	8.863	ppbv 99
18) 1,1-Dichloroethene	4.33	96	762433	9.111	ppbv 95
19) Isopropyl Alcohol	4.00	45	1061152	8.219	ppbv 99
20) Methylene Chloride	4.38	84	657393	7.837	ppbv 98
21) Allyl Chloride	4.45	41	1127434	9.401	ppbv 99
22) trans-1,2-Dichloroethene	4.93	96	758364	9.510	ppbv 89
23) Vinyl Acetate	5.12	43	2045774	10.657	ppbv 99
24) 1,1-Dichloroethane	5.06	63	1637127	9.622	ppbv 99
25) Ethyl Acetate	5.74	43	2764804	10.510	ppbv 99
26) Hexane	5.75	57	1284838	10.673	ppbv 96
27) Carbon Disulfide	4.59	76	1961600	9.585	ppbv 99
28) Methyl tert-Butyl Ether	5.08	73	2134288	10.469	ppbv 100
29) Chloroform	5.82	83	2182917	9.649	ppbv 99
30) Cyclohexane	7.21	84	1069777	11.507	ppbv 96
31) cis-1,2-Dichloroethene	5.61	61	1279058	10.997	ppbv 97
32) 1,1,1-Trichloroethane	6.59	97	2186449	9.535	ppbv 99
34) 2-Butanone	5.30	43	1589987	10.124	ppbv 100
35) Carbon Tetrachloride	7.10	117	2300011	9.791	ppbv 98
36) Benzene	6.97	78	2550166	10.983	ppbv 97
37) 1,2-Dichloroethane	6.38	62	1696912	9.920	ppbv 100
38) Trichloroethene	7.93	130	1107795	10.723	ppbv 98
39) 1,2-Dichloropropane	7.70	63	907399	10.509	ppbv 98
40) 1,4-Dioxane	7.92	88	378212	9.488	ppbv # 99
41) Tetrahydrofuran	6.11	42	895795	11.631	ppbv 100
42) Bromodichloromethane	7.88	83	2391442	10.419	ppbv 98
43) Methyl Methacrylate	8.10	69	1032026	11.714	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.96	57	4240894	10.581	ppbv	100
45) t-1,3-Dichloropropene	9.38	75	1465968	12.725	ppbv	98
46) cis-1,3-Dichloropropene	8.80	75	1600271	11.994	ppbv	96
47) 1,1,2-Trichloroethane	9.58	97	1148508	10.580	ppbv	93
48) Dibromochloromethane	10.42	129	2092944	10.104	ppbv	100
49) Bromoform	13.16	173	1950336	11.021	ppbv	99
50) 4-Methyl-2-Pentanone	8.83	43	2520677	10.816	ppbv	100
51) 2-Hexanone	10.23	43	2089065	11.115	ppbv #	100
52) Tetrachloroethene	11.34	164	1073273	10.740	ppbv	97
53) Toluene	9.91	91	3192844	12.013	ppbv	98
54) 1,2-Dibromoethane	10.72	107	1754592	10.952	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.24	131	1403518	9.805	ppbv	99
57) Chlorobenzene	12.26	112	2513264	9.857	ppbv	98
58) Ethyl Benzene	12.83	91	4326573	11.234	ppbv	99
59) m/p-Xylene	13.12	91	7273787m	20.858	ppbv	
60) o-Xylene	13.81	91	3679086	10.546	ppbv	98
61) Styrene	13.65	104	2719316	11.778	ppbv	99
62) Isopropylbenzene	14.79	105	4886770	9.112	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.80	83	2513842	9.309	ppbv	99
64) n-propylbenzene	15.68	120	1261011	9.067	ppbv	97
65) tert-Butylbenzene	16.87	119	4406890	9.663	ppbv	99
66) Benzyl Chloride	17.12	91	2476180	10.612	ppbv	100
67) sec-Butylbenzene	17.42	105	6133150	9.581	ppbv	100
69) p-Isopropyltoluene	17.78	119	5106155	9.675	ppbv	99
70) n-Butylbenzene	18.68	91	5231136	9.435	ppbv	100
71) 2-Chlorotoluene	15.58	91	3654641	9.312	ppbv	100
72) 4-Ethyltoluene	15.97	105	4279475	9.552	ppbv	98
73) 1,3,5-Trimethylbenzene	16.12	105	4068787	9.761	ppbv	96
74) 1,2,4-Trimethylbenzene	16.89	105	4276032	9.262	ppbv	95
75) 1,3-Dichlorobenzene	17.13	146	2531067	8.630	ppbv	99
76) 1,4-Dichlorobenzene	17.27	146	2518071	9.116	ppbv	99
77) 1,2-Dichlorobenzene	17.95	146	2415159	8.893	ppbv	99
78) Hexachloro-1,3-Butadiene	23.51	225	2228302	9.643	ppbv	100
79) Naphthalene	22.36	128	3940966	10.153	ppbv	98
80) Naphthalene, 2-methyl-	25.08	142	2004611	14.192	ppbv	98
81) 1,2,4-Trichlorobenzene	22.09	180	2332301	9.356	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

