

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031221.D
 Acq On : 14 Dec 2017 5:31
 Operator : SY/AP
 Sample : VL1213ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1213ABS01

Manual Integrations
 APPROVED

MMDadoda
 12/15/2017 4:07:02 PM

Quant Time: Dec 14 12:08:19 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 04:29:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1642243	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	4145947	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.42	117	4455737m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	3195229	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	1371657	9.89	ppbv	100
3) Chlorodifluoromethane	3.12	51	1509571	8.08	ppbv	100
4) Chloromethane	3.28	50	953198	9.45	ppbv	99
5) Vinyl Chloride	3.40	62	900677	8.63	ppbv	99
6) Bromomethane	3.63	94	559089	9.04	ppbv	97
7) Chloroethane	3.72	64	356759	9.23	ppbv	100
8) Dichlorotetrafluoroethane	3.33	85	1919876	9.97	ppbv	98
9) Propene	3.14	41	834225	9.10	ppbv	99
10) Heptane	8.41	43	2381763	8.54	ppbv	100
11) Trichlorofluoromethane	4.13	101	2107680	9.24	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.69	101	1402487	8.78	ppbv	98
13) Ethanol	3.77	45	186861	7.07	ppbv	98
14) Bromoethene	3.91	108	651171	9.48	ppbv	99
15) Acetone	4.02	43	1847235	8.52	ppbv	98
16) 1,3-Butadiene	3.47	39	822754	8.82	ppbv	97
17) tert-Butyl alcohol	4.49	59	875421	7.20	ppbv	99
18) 1,1-Dichloroethene	4.48	96	681929	9.53	ppbv	92
19) Isopropyl Alcohol	4.15	45	1146207	8.36	ppbv #	85
20) Methylene Chloride	4.54	84	630601	8.79	ppbv	95
21) Allyl Chloride	4.61	41	1149226	9.01	ppbv	99
22) trans-1,2-Dichloroethene	5.11	96	760083	8.64	ppbv	97
23) Vinyl Acetate	5.30	43	2705503	7.75	ppbv	99
24) 1,1-Dichloroethane	5.23	63	2144831	8.46	ppbv	99
25) Ethyl Acetate	5.92	43	3572332	8.07	ppbv	99
26) Hexane	5.93	57	1705307	8.12	ppbv	97
27) Carbon Disulfide	4.76	76	1811365	8.61	ppbv	98
28) Methyl tert-Butyl Ether	5.25	73	2221932	8.09	ppbv	99
29) Chloroform	6.00	83	2453002	8.65	ppbv	100
30) Cyclohexane	7.41	84	1463431	7.91	ppbv	99
31) cis-1,2-Dichloroethene	5.79	61	1594740	8.37	ppbv	100
32) 1,1,1-Trichloroethane	6.78	97	2437649	8.04	ppbv	100
34) 2-Butanone	5.47	43	2445624	8.35	ppbv	100
35) Carbon Tetrachloride	7.30	117	2416931	8.14	ppbv	99
36) Benzene	7.17	78	3516492	8.00	ppbv	99
37) 1,2-Dichloroethane	6.57	62	1964481	8.10	ppbv	100
38) Trichloroethene	8.13	130	1351134	7.88	ppbv	96
39) 1,2-Dichloropropane	7.90	63	1310563	8.44	ppbv	95
40) 1,4-Dioxane	8.12	88	486386	8.67	ppbv #	100
41) Tetrahydrofuran	6.30	42	1409585	8.56	ppbv	99
42) Bromodichloromethane	8.08	83	2581732	9.04	ppbv	99
43) Methyl Methacrylate	8.30	69	1301339	8.84	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.16	57	5686583	8.57	ppbv	100
45) t-1,3-Dichloropropene	9.58	75	1825412	9.07	ppbv	98
46) cis-1,3-Dichloropropene	9.00	75	2208808	8.73	ppbv	97
47) 1,1,2-Trichloroethane	9.79	97	1480669	9.19	ppbv	98
48) Dibromochloromethane	10.63	129	2414336	9.59	ppbv	100
49) Bromoform	13.38	173	1728469	9.31	ppbv	100
50) 4-Methyl-2-Pentanone	9.04	43	3093285	8.63	ppbv	100
51) 2-Hexanone	10.44	43	2956539	8.65	ppbv #	99
52) Tetrachloroethene	11.55	164	1346531	8.31	ppbv	98
53) Toluene	10.12	91	4341035	9.11	ppbv	100
54) 1,2-Dibromoethane	10.94	107	2283158	9.35	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.46	131	1647212	8.29	ppbv	94
57) Chlorobenzene	12.48	112	3292214	7.93	ppbv	98
58) Ethyl Benzene	13.04	91	5736629	7.80	ppbv	99
59) m/p-Xylene	13.33	91	8945506m	15.19	ppbv	
60) o-Xylene	14.03	91	4570710	7.70	ppbv	99
61) Styrene	13.86	104	1338728	7.86	ppbv	99
62) Isopropylbenzene	15.00	105	6121932	7.87	ppbv	99
63) 1,1,2,2-Tetrachloroethane	14.01	83	2977107	7.48	ppbv	100
64) n-propylbenzene	15.90	120	1642028	7.95	ppbv	100
65) tert-Butylbenzene	17.08	119	5231435	7.59	ppbv	99
66) Benzyl Chloride	17.33	91	600587	8.08	ppbv	99
67) sec-Butylbenzene	17.63	105	7384084	7.79	ppbv	100
69) p-Isopropyltoluene	17.99	119	6112921	7.73	ppbv	100
70) n-Butylbenzene	18.89	91	5998368	7.87	ppbv	100
71) 2-Chlorotoluene	15.79	91	4574050	7.92	ppbv	100
72) 4-Ethyltoluene	16.17	105	5126726	7.88	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	4494126	7.77	ppbv	99
74) 1,2,4-Trimethylbenzene	17.10	105	4554198	7.48	ppbv	96
75) 1,3-Dichlorobenzene	17.34	146	2935213	7.60	ppbv	99
76) 1,4-Dichlorobenzene	17.48	146	3000736	7.69	ppbv	100
77) 1,2-Dichlorobenzene	18.17	146	2948900	7.82	ppbv	100
78) Hexachloro-1,3-Butadiene	23.71	225	631945	7.29	ppbv	99
79) Naphthalene	22.61	128	3791128	7.69	ppbv	99
80) Naphthalene, 2-methyl-	25.25	142	1141965	6.22	ppbv	100
81) 1,2,4-Trichlorobenzene	22.34	180	1690451	7.37	ppbv	100

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

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