

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052219\
 Data File : VL033741.D
 Acq On : 22 May 2019 12:10
 Operator : SY/AP
 Sample : VL0522ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0522ABS01

Manual Integrations
 APPROVED

Quant Time: May 23 04:45:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	991362	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2632958	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2697826m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2221093	10.16	ppbv	0.00	MMDadoda
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%	

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.07	85	1631422	7.809	ppbv	99
3) Chlorodifluoromethane	3.01	51	1085285	9.557	ppbv	97
4) Chloromethane	3.17	50	630672	9.710	ppbv	99
5) Vinyl Chloride	3.29	62	636411	9.619	ppbv	95
6) Bromomethane	3.51	94	405908	10.055	ppbv	99
7) Chloroethane	3.59	64	240320	10.221	ppbv	94
8) Dichlorotetrafluoroethane	3.21	85	1648011	9.784	ppbv	99
9) Propene	3.03	41	462162	9.569	ppbv	100
10) Heptane	8.24	43	1425255	10.420	ppbv	100
11) Trichlorofluoromethane	4.00	101	1959259	9.826	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1311636	9.420	ppbv	99
13) Ethanol	3.64	45	88750	5.685	ppbv	97
14) Bromoethene	3.78	108	530685	10.367	ppbv	99
15) Acetone	3.89	43	1192429	8.669	ppbv	100
16) 1,3-Butadiene	3.36	39	568303	10.375	ppbv	99
17) tert-Butyl alcohol	4.35	59	1129702	10.157	ppbv	100
18) 1,1-Dichloroethene	4.35	96	581733	9.898	ppbv	98
19) Isopropyl Alcohol	4.02	45	798451	9.003	ppbv #	99
20) Methylene Chloride	4.40	84	491838	9.287	ppbv	99
21) Allyl Chloride	4.47	41	845420	9.854	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	594113	9.862	ppbv	94
23) Vinyl Acetate	5.15	43	1824267	10.059	ppbv	99
24) 1,1-Dichloroethane	5.08	63	1301642	9.442	ppbv	99
25) Ethyl Acetate	5.76	43	2255248	9.334	ppbv	100
26) Hexane	5.77	57	978811	9.423	ppbv	97
27) Carbon Disulfide	4.61	76	1467548	10.298	ppbv	99
28) Methyl tert-Butyl Ether	5.10	73	1657970	9.791	ppbv	99
29) Chloroform	5.84	83	1712522	8.950	ppbv	99
30) Cyclohexane	7.24	84	963036	11.028	ppbv	99
31) cis-1,2-Dichloroethene	5.63	61	1017319	9.877	ppbv	98
32) 1,1,1-Trichloroethane	6.61	97	2031290	10.632	ppbv	99
34) 2-Butanone	5.32	43	1447745	8.871	ppbv	100
35) Carbon Tetrachloride	7.12	117	2177133	10.322	ppbv	97
36) Benzene	7.00	78	2328044	9.720	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1513873	9.799	ppbv	99
38) Trichloroethene	7.95	130	950020	10.690	ppbv	94
39) 1,2-Dichloropropane	7.73	63	853289	9.556	ppbv	99
40) 1,4-Dioxane	7.94	88	317912	8.511	ppbv #	97
41) Tetrahydrofuran	6.14	42	800517	8.754	ppbv	99
42) Bromodichloromethane	7.91	83	2107570	9.964	ppbv	94
43) Methyl Methacrylate	8.13	69	918040	10.415	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3861622	9.540	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1245098	11.142	ppbv	95
46) cis-1,3-Dichloropropene	8.83	75	1409788	10.775	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	971068	9.573	ppbv	97
48) Dibromochloromethane	10.44	129	1789699	10.182	ppbv	99
49) Bromoform	13.19	173	1659702	11.222	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	2466839	9.827	ppbv	99
51) 2-Hexanone	10.26	43	2039698	10.411	ppbv #	100
52) Tetrachloroethene	11.36	164	881844	10.474	ppbv	97
53) Toluene	9.94	91	2703371	10.465	ppbv	99
54) 1,2-Dibromoethane	10.75	107	1530936	9.889	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.27	131	1235329	9.895	ppbv	97
57) Chlorobenzene	12.29	112	2131812	9.600	ppbv	99
58) Ethyl Benzene	12.86	91	3789563	10.607	ppbv	99
59) m/p-Xylene	13.14	91	6365534m	20.383	ppbv	
60) o-Xylene	13.84	91	3234893	10.275	ppbv	100
61) Styrene	13.68	104	2386024	11.257	ppbv	99
62) Isopropylbenzene	14.82	105	4332946	10.220	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	2273511	9.931	ppbv	100
64) n-propylbenzene	15.71	120	1133708	10.338	ppbv	99
65) tert-Butylbenzene	16.90	119	4041765	10.441	ppbv	99
66) Benzyl Chloride	17.15	91	2114466	11.469	ppbv	99
67) sec-Butylbenzene	17.45	105	5547036	10.238	ppbv	100
69) p-Isopropyltoluene	17.81	119	4612526	10.300	ppbv	99
70) n-Butylbenzene	18.71	91	4739000	9.868	ppbv	100
71) 2-Chlorotoluene	15.61	91	3295789	10.478	ppbv	100
72) 4-Ethyltoluene	15.99	105	3886727	10.798	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3692389	10.513	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	3849829	10.072	ppbv	99
75) 1,3-Dichlorobenzene	17.15	146	2205141	9.415	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	2173495	9.764	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	2122245	9.643	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1393504	8.375	ppbv	100
79) Naphthalene	22.40	128	3010170	8.479	ppbv	99
80) Naphthalene, 2-methyl-	25.10	142	945789	7.011	ppbv	96
81) 1,2,4-Trichlorobenzene	22.13	180	1717143	8.260	ppbv	99

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

