

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032770.D
 Acq On : 14 Nov 2018 22:23
 Operator : SY/AP
 Sample : VL1114ABS02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS02

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:30:13 PM

Quant Time: Nov 15 07:08:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1506991	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3756850	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3659386m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2761300	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1984714	9.162	ppbv	99
3) Chlorodifluoromethane	3.02	51	1093756	9.155	ppbv	98
4) Chloromethane	3.17	50	596862	9.009	ppbv	96
5) Vinyl Chloride	3.30	62	613754	8.743	ppbv	99
6) Bromomethane	3.52	94	399299	9.298	ppbv	93
7) Chloroethane	3.61	64	234909	9.285	ppbv	100
8) Dichlorotetrafluoroethane	3.23	85	1539141	9.017	ppbv	99
9) Propene	3.04	41	439832	9.199	ppbv	99
10) Heptane	8.26	43	1815343	9.945	ppbv	99
11) Trichlorofluoromethane	4.01	101	1771545	8.678	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1449840	8.695	ppbv	99
13) Ethanol	3.65	45	108903	6.954	ppbv	100
14) Bromoethene	3.80	108	523287	9.459	ppbv	98
15) Acetone	3.91	43	1124650	8.172	ppbv	99
16) 1,3-Butadiene	3.37	39	542544	10.180	ppbv	98
17) tert-Butyl alcohol	4.36	59	423204	9.805	ppbv	99
18) 1,1-Dichloroethene	4.36	96	790406	9.639	ppbv	96
19) Isopropyl Alcohol	4.03	45	778161	8.488	ppbv	100
20) Methylene Chloride	4.42	84	665195	9.337	ppbv	98
21) Allyl Chloride	4.48	41	1260106	10.896	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	736192	9.195	ppbv	98
23) Vinyl Acetate	5.16	43	2458028	9.798	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1844682	9.249	ppbv	100
25) Ethyl Acetate	5.78	43	2993220	9.332	ppbv	99
26) Hexane	5.79	57	1361663	9.537	ppbv	98
27) Carbon Disulfide	4.63	76	1860262	10.275	ppbv	98
28) Methyl tert-Butyl Ether	5.12	73	2221097	9.755	ppbv	99
29) Chloroform	5.86	83	2315963	9.100	ppbv	96
30) Cyclohexane	7.26	84	1220870	9.776	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1402032	9.766	ppbv	98
32) 1,1,1-Trichloroethane	6.63	97	2485740	8.911	ppbv	100
34) 2-Butanone	5.34	43	1910816	9.806	ppbv	99
35) Carbon Tetrachloride	7.14	117	2719199	9.004	ppbv	99
36) Benzene	7.01	78	2901730	9.699	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1938096	9.624	ppbv	99
38) Trichloroethene	7.97	130	1170283	9.666	ppbv	94
39) 1,2-Dichloropropane	7.74	63	1094557	9.603	ppbv	99
40) 1,4-Dioxane	7.96	88	416232	10.224	ppbv	87
41) Tetrahydrofuran	6.16	42	1136926	10.172	ppbv	100
42) Bromodichloromethane	7.92	83	2657004	9.733	ppbv	99
43) Methyl Methacrylate	8.14	69	1174778	10.518	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4930882	9.863	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1710724	11.415	ppbv	96
46) cis-1,3-Dichloropropene	8.84	75	1985053	10.963	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	1311770	9.733	ppbv	98
48) Dibromochloromethane	10.46	129	2229563	9.733	ppbv	99
49) Bromoform	13.21	173	1804300	9.537	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	3078662	10.116	ppbv	99
51) 2-Hexanone	10.28	43	2190120	11.170	ppbv #	99
52) Tetrachloroethene	11.38	164	1037900	9.973	ppbv	98
53) Toluene	9.95	91	3391536	10.867	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1888375	9.911	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1569635	9.196	ppbv	97
57) Chlorobenzene	12.31	112	2533191	9.043	ppbv	97
58) Ethyl Benzene	12.87	91	4546438	10.323	ppbv	98
59) m/p-Xylene	13.13	91	7713589m	19.675	ppbv	
60) o-Xylene	13.86	91	3737883	9.482	ppbv	100
61) Styrene	13.69	104	2747093	10.705	ppbv	99
62) Isopropylbenzene	14.83	105	5176610	9.715	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2499868	8.135	ppbv	100
64) n-propylbenzene	15.73	120	1291291	9.214	ppbv	97
65) tert-Butylbenzene	16.92	119	4456736	9.331	ppbv	99
66) Benzyl Chloride	17.16	91	2574049	9.748	ppbv	100
67) sec-Butylbenzene	17.46	105	6383508	9.273	ppbv	99
69) p-Isopropyltoluene	17.82	119	5243146	9.579	ppbv	100
70) n-Butylbenzene	18.72	91	5437572	9.784	ppbv	99
71) 2-Chlorotoluene	15.62	91	3853065	9.697	ppbv	100
72) 4-Ethyltoluene	16.01	105	4207132	9.737	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3972893	9.404	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	4081279	9.028	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	2296994	8.858	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2236952	9.235	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2233799	9.311	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1173299	9.062	ppbv	99
79) Naphthalene	22.42	128	3872535	13.040	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	846230	11.377	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1857803	12.457	ppbv	98

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

