

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121318\
 Data File : VL032984.D
 Acq On : 13 Dec 2018 14:26
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 11:18:48 AM

Quant Time: Dec 14 02:36:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1336001	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3405450	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3364398m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2536668	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1856995	10.412	ppbv	99
3) Chlorodifluoromethane	3.02	51	1021344	10.094	ppbv	98
4) Chloromethane	3.17	50	564211	9.578	ppbv	96
5) Vinyl Chloride	3.29	62	572821	9.557	ppbv	98
6) Bromomethane	3.52	94	381714	10.183	ppbv	94
7) Chloroethane	3.60	64	219664	10.226	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1459939	9.850	ppbv	100
9) Propene	3.04	41	420690	10.515	ppbv	98
10) Heptane	8.25	43	1436973	9.562	ppbv	100
11) Trichlorofluoromethane	4.01	101	1617597	9.627	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1341959	9.361	ppbv	98
13) Ethanol	3.65	45	98926	7.182	ppbv	95
14) Bromoethene	3.79	108	490288	10.301	ppbv	99
15) Acetone	3.90	43	1022076	8.913	ppbv	99
16) 1,3-Butadiene	3.36	39	452354	9.943	ppbv	92
17) tert-Butyl alcohol	4.37	59	332910m	11.403	ppbv	
18) 1,1-Dichloroethene	4.35	96	617602	10.999	ppbv	95
19) Isopropyl Alcohol	4.03	45	714395	9.920	ppbv	100
20) Methylene Chloride	4.41	84	524348	9.356	ppbv	96
21) Allyl Chloride	4.48	41	963916	10.315	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	627068	8.999	ppbv	100
23) Vinyl Acetate	5.16	43	2311100	11.903	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1764703	10.453	ppbv	99
25) Ethyl Acetate	5.77	43	2653196	9.795	ppbv	99
26) Hexane	5.78	57	1223435	9.782	ppbv	99
27) Carbon Disulfide	4.62	76	1559510	9.973	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2202893	11.728	ppbv	100
29) Chloroform	5.86	83	2040132	9.142	ppbv	97
30) Cyclohexane	7.25	84	1091226	10.527	ppbv	100
31) cis-1,2-Dichloroethene	5.65	61	1169416	10.190	ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	2242826	9.499	ppbv	99
34) 2-Butanone	5.33	43	1687613	11.377	ppbv	99
35) Carbon Tetrachloride	7.14	117	2369990	8.854	ppbv	100
36) Benzene	7.01	78	2350189	9.383	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1567717	9.193	ppbv	99
38) Trichloroethene	7.97	130	1035145	9.930	ppbv	99
39) 1,2-Dichloropropane	7.74	63	877765	9.240	ppbv	96
40) 1,4-Dioxane	7.97	88	339545	9.704	ppbv #	97
41) Tetrahydrofuran	6.15	42	1007443	10.920	ppbv	99
42) Bromodichloromethane	7.92	83	2133759	9.031	ppbv	99
43) Methyl Methacrylate	8.15	69	950194	10.238	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4325659	10.174	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1432717	12.590	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1657221	11.898	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1093089	10.454	ppbv	97
48) Dibromochloromethane	10.46	129	2012957	10.262	ppbv	100
49) Bromoform	13.21	173	1786206	11.072	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	2494827	10.518	ppbv	100
51) 2-Hexanone	10.28	43	1847400	11.484	ppbv #	99
52) Tetrachloroethene	11.38	164	996954	10.942	ppbv	98
53) Toluene	9.96	91	3039923	11.443	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1675924	10.260	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.28	131	1414353	9.429	ppbv	97
57) Chlorobenzene	12.31	112	2318339	9.541	ppbv	98
58) Ethyl Benzene	12.87	91	4076876	11.359	ppbv	100
59) m/p-Xylene	13.15	91	7120674m	21.883	ppbv	
60) o-Xylene	13.86	91	3372238	10.262	ppbv	99
61) Styrene	13.69	104	2622862	11.999	ppbv	100
62) Isopropylbenzene	14.83	105	5059791	11.036	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2342695	9.181	ppbv	99
64) n-propylbenzene	15.73	120	1226190	10.297	ppbv	100
65) tert-Butylbenzene	16.92	119	4296787	10.109	ppbv	100
66) Benzyl Chloride	17.16	91	2582480	10.962	ppbv	100
67) sec-Butylbenzene	17.46	105	6035773	9.632	ppbv	100
69) p-Isopropyltoluene	17.82	119	5169471	10.179	ppbv	100
70) n-Butylbenzene	18.72	91	5296591	11.336	ppbv	100
71) 2-Chlorotoluene	15.62	91	3587353	10.522	ppbv	100
72) 4-Ethyltoluene	16.01	105	3878245	10.571	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3890223	10.862	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	3896124	9.634	ppbv #	91
75) 1,3-Dichlorobenzene	17.17	146	2183659	9.169	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2126338	9.569	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2212062	9.947	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1076161	8.799	ppbv	100
79) Naphthalene	22.42	128	3136182	12.011	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	713699	12.793	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1525728	11.018	ppbv	100

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

