

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122018\
 Data File : VL033024.D
 Acq On : 20 Dec 2018 13:15
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 12/24/2018 8:26:18 AM

Quant Time: Dec 21 06:27:27 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	1181039	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2928740	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2906906m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2218519	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1699639	10.780	ppbv	99
3) Chlorodifluoromethane	3.02	51	911017	10.185	ppbv	100
4) Chloromethane	3.17	50	500790	9.617	ppbv	95
5) Vinyl Chloride	3.29	62	520122	9.817	ppbv	99
6) Bromomethane	3.52	94	340659	10.280	ppbv	95
7) Chloroethane	3.60	64	202288	10.652	ppbv	94
8) Dichlorotetrafluoroethane	3.22	85	1318493	10.063	ppbv	99
9) Propene	3.04	41	372851	10.542	ppbv	96
10) Heptane	8.25	43	1330789	10.017	ppbv	99
11) Trichlorofluoromethane	4.01	101	1544518	10.398	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1052047	8.301	ppbv	100
13) Ethanol	3.65	45	101050	8.298	ppbv	98
14) Bromoethene	3.79	108	461498	10.968	ppbv	99
15) Acetone	3.90	43	985689	9.723	ppbv	100
16) 1,3-Butadiene	3.37	39	459107	11.415	ppbv	95
17) tert-Butyl alcohol	4.36	59	249906	9.683	ppbv #	81
18) 1,1-Dichloroethene	4.35	96	481035	9.691	ppbv	98
19) Isopropyl Alcohol	4.02	45	701463	11.019	ppbv	99
20) Methylene Chloride	4.41	84	414988	8.376	ppbv	99
21) Allyl Chloride	4.48	41	756354	9.155	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	480680	7.803	ppbv	97
23) Vinyl Acetate	5.16	43	1968339	11.468	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1463178	9.804	ppbv	99
25) Ethyl Acetate	5.77	43	2477541	10.346	ppbv	100
26) Hexane	5.79	57	1143858	10.346	ppbv	98
27) Carbon Disulfide	4.62	76	1219939	8.825	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	1906046	11.479	ppbv	100
29) Chloroform	5.85	83	1893427	9.598	ppbv	95
30) Cyclohexane	7.25	84	959774	10.474	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1184894	11.679	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1972750	9.451	ppbv	99
34) 2-Butanone	5.33	43	1178637	9.239	ppbv	99
35) Carbon Tetrachloride	7.14	117	2155214	9.362	ppbv	99
36) Benzene	7.01	78	2215840	10.286	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1495887	10.199	ppbv	99
38) Trichloroethene	7.96	130	950088	10.598	ppbv	99
39) 1,2-Dichloropropane	7.74	63	818546	10.019	ppbv	97
40) 1,4-Dioxane	7.96	88	313055	10.403	ppbv #	95
41) Tetrahydrofuran	6.15	42	881112	11.105	ppbv	100
42) Bromodichloromethane	7.92	83	1972792	9.709	ppbv	99
43) Methyl Methacrylate	8.14	69	858746m	10.758	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3841818	10.507	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1233145	12.600	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1102481	9.204	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	940109	10.455	ppbv	98
48) Dibromochloromethane	10.46	129	1753232	10.393	ppbv	99
49) Bromoform	13.21	173	1193431	8.602	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1664852	8.161	ppbv	100
51) 2-Hexanone	10.28	43	1633616	11.808	ppbv	99
52) Tetrachloroethene	11.38	164	835058	10.657	ppbv	98
53) Toluene	9.95	91	2599964	11.380	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1145604	8.155	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1242325	9.586	ppbv	99
57) Chlorobenzene	12.31	112	2032143	9.679	ppbv	99
58) Ethyl Benzene	12.87	91	2817779	9.087	ppbv	99
59) m/p-Xylene	13.16	91	4801580m	17.079	ppbv	
60) o-Xylene	13.86	91	3074041	10.827	ppbv	99
61) Styrene	13.69	104	2271464	12.027	ppbv	100
62) Isopropylbenzene	14.83	105	4367893	11.027	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2110383	9.573	ppbv	99
64) n-propylbenzene	15.73	120	1113568	10.823	ppbv	98
65) tert-Butylbenzene	16.92	119	3827564	10.423	ppbv	100
66) Benzyl Chloride	17.16	91	2261882	11.113	ppbv	99
67) sec-Butylbenzene	17.47	105	5392063	9.959	ppbv	100
69) p-Isopropyltoluene	17.82	119	4529531	10.323	ppbv	100
70) n-Butylbenzene	18.72	91	4589584	11.369	ppbv	100
71) 2-Chlorotoluene	15.62	91	3219159	10.928	ppbv	100
72) 4-Ethyltoluene	16.01	105	3587106	11.317	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3472635	11.222	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3471620	9.936	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	1964803	9.549	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	1910077	9.948	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	1928399	10.036	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	929856	8.799	ppbv	99
79) Naphthalene	22.42	128	2801557	12.418	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	690502	14.325	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1410410	11.788	ppbv	99

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

