

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032684.D
 Acq On : 19 Oct 2018 14:55
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:07:02 PM

Quant Time: Oct 20 00:02:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 2018
 QLast Update : Fri Oct 19 01:25:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1511178	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3824524	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3842110m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2893296	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1098637	7.136	ppbv	98
3) Chlorodifluoromethane	3.02	51	1094344	9.260	ppbv	99
4) Chloromethane	3.18	50	633847	9.597	ppbv	97
5) Vinyl Chloride	3.30	62	634228	8.866	ppbv	97
6) Bromomethane	3.53	94	390749	8.761	ppbv	93
7) Chloroethane	3.61	64	233214	8.853	ppbv	96
8) Dichlorotetrafluoroethane	3.23	85	1464804	9.026	ppbv	92
9) Propene	3.05	41	490105	10.077	ppbv	99
10) Heptane	8.26	43	1979941	10.564	ppbv	99
11) Trichlorofluoromethane	4.02	101	1615268	8.032	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1590327	9.509	ppbv	91
13) Ethanol	3.66	45	119905	8.626	ppbv	98
14) Bromoethene	3.80	108	518166	9.167	ppbv	100
15) Acetone	3.91	43	1102447	7.900	ppbv	100
16) 1,3-Butadiene	3.37	39	520681	10.143	ppbv	82
17) tert-Butyl alcohol	4.37	59	487547	11.879	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	747613	10.175	ppbv	98
19) Isopropyl Alcohol	4.04	45	862990	8.684	ppbv #	97
20) Methylene Chloride	4.42	84	635590	8.973	ppbv	97
21) Allyl Chloride	4.49	41	1246510	10.880	ppbv	100
22) trans-1,2-Dichloroethene	4.98	96	756674	10.040	ppbv	90
23) Vinyl Acetate	5.17	43	2595247	10.495	ppbv	100
24) 1,1-Dichloroethane	5.11	63	1886414	9.718	ppbv	98
25) Ethyl Acetate	5.79	43	3141581	9.781	ppbv	99
26) Hexane	5.80	57	1482304	9.753	ppbv	99
27) Carbon Disulfide	4.63	76	1880012	10.197	ppbv	99
28) Methyl tert-Butyl Ether	5.13	73	2313795	10.593	ppbv	100
29) Chloroform	5.87	83	2341366	9.645	ppbv	99
30) Cyclohexane	7.27	84	1298472	10.794	ppbv	98
31) cis-1,2-Dichloroethene	5.66	61	1510054	10.716	ppbv	97
32) 1,1,1-Trichloroethane	6.64	97	2317555	9.394	ppbv	99
34) 2-Butanone	5.35	43	2012642	9.817	ppbv	99
35) Carbon Tetrachloride	7.15	117	2500361	9.212	ppbv	97
36) Benzene	7.03	78	3054012	9.834	ppbv	99
37) 1,2-Dichloroethane	6.43	62	1776318	9.325	ppbv	98
38) Trichloroethene	7.98	130	1210394	10.528	ppbv	99
39) 1,2-Dichloropropane	7.76	63	1184850	9.880	ppbv	99
40) 1,4-Dioxane	7.98	88	401741	9.808	ppbv #	97
41) Tetrahydrofuran	6.17	42	1244591	10.894	ppbv	99
42) Bromodichloromethane	7.94	83	2565194	9.611	ppbv	98
43) Methyl Methacrylate	8.16	69	1245426	10.942	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	5261143	9.923	ppbv	99
45) t-1,3-Dichloropropene	9.44	75	1823498	11.968	ppbv	99
46) cis-1,3-Dichloropropene	8.86	75	1927837	11.075	ppbv	99
47) 1,1,2-Trichloroethane	9.64	97	1400415	9.882	ppbv	98
48) Dibromochloromethane	10.47	129	2277012	9.640	ppbv	100
49) Bromoform	13.22	173	1838467	9.905	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	3049992	10.042	ppbv	99
51) 2-Hexanone	10.29	43	2568254	11.375	ppbv	98
52) Tetrachloroethene	11.40	164	1165236	10.762	ppbv	96
53) Toluene	9.97	91	3918082	11.006	ppbv	100
54) 1,2-Dibromoethane	10.78	107	1892316	9.825	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.30	131	1567313	9.329	ppbv	97
57) Chlorobenzene	12.33	112	2728470	9.656	ppbv	94
58) Ethyl Benzene	12.89	91	4832454	10.827	ppbv	100
59) m/p-Xylene	13.17	91	8035566m	20.217	ppbv	
60) o-Xylene	13.87	91	3829821	9.989	ppbv	99
61) Styrene	13.71	104	2940207	11.437	ppbv	98
62) Isopropylbenzene	14.85	105	5329351	9.821	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.86	83	2600180	8.656	ppbv	99
64) n-propylbenzene	15.75	120	1370545	10.163	ppbv	95
65) tert-Butylbenzene	16.93	119	4539196	9.822	ppbv	96
66) Benzyl Chloride	17.18	91	2630780	11.025	ppbv	99
67) sec-Butylbenzene	17.48	105	6379192	9.706	ppbv	99
69) p-Isopropyltoluene	17.84	119	5170173	9.926	ppbv	98
70) n-Butylbenzene	18.74	91	5243103	9.778	ppbv	99
71) 2-Chlorotoluene	15.64	91	3984496	10.332	ppbv	98
72) 4-Ethyltoluene	16.02	105	4346974	10.645	ppbv	99
73) 1,3,5-Trimethylbenzene	16.18	105	4036683	10.149	ppbv	96
74) 1,2,4-Trimethylbenzene	16.95	105	4098848	9.650	ppbv	97
75) 1,3-Dichlorobenzene	17.19	146	2278038	9.326	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	2262083	10.036	ppbv	98
77) 1,2-Dichlorobenzene	18.01	146	2167814	9.368	ppbv	99
78) Hexachloro-1,3-Butadiene	23.57	225	1363917	12.474	ppbv	99
79) Naphthalene	22.43	128	3423573	12.968	ppbv	100
80) Naphthalene, 2-methyl-	25.13	142	1343430	20.926	ppbv	100
81) 1,2,4-Trichlorobenzene	22.16	180	1612339	11.792	ppbv	99

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

