

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121718\
 Data File : VL032997.D
 Acq On : 17 Dec 2018 13:01
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 1:56:37 PM

Quant Time: Dec 18 01:22:56 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	1225073	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3020926	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3440726m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2524319	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1713526	10.478	ppbv 99
3) Chlorodifluoromethane	3.02	51	946021	10.196	ppbv 98
4) Chloromethane	3.17	50	518687	9.603	ppbv 98
5) Vinyl Chloride	3.29	62	536806	9.767	ppbv 99
6) Bromomethane	3.52	94	351339	10.221	ppbv 97
7) Chloroethane	3.61	64	205105	10.413	ppbv 95
8) Dichlorotetrafluoroethane	3.22	85	1350555	9.937	ppbv 97
9) Propene	3.04	41	400596	10.920	ppbv 97
10) Heptane	8.25	43	1305111	9.470	ppbv 100
11) Trichlorofluoromethane	4.01	101	1515441	9.835	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1075359	8.180	ppbv 100
13) Ethanol	3.65	45	91594	7.251	ppbv 96
14) Bromoethene	3.79	108	471200	10.796	ppbv 99
15) Acetone	3.91	43	971669	9.241	ppbv 98
16) 1,3-Butadiene	3.37	39	444139	10.646	ppbv 97
17) tert-Butyl alcohol	4.36	59	259214	9.682	ppbv # 82
18) 1,1-Dichloroethene	4.36	96	502522	9.760	ppbv 97
19) Isopropyl Alcohol	4.03	45	684165	10.361	ppbv 100
20) Methylene Chloride	4.41	84	423891	8.248	ppbv 99
21) Allyl Chloride	4.48	41	769985	8.985	ppbv 98
22) trans-1,2-Dichloroethene	4.97	96	639318	10.005	ppbv 100
23) Vinyl Acetate	5.16	43	2031062	11.408	ppbv 99
24) 1,1-Dichloroethane	5.10	63	1524151	9.845	ppbv 99
25) Ethyl Acetate	5.78	43	2469377	9.941	ppbv 100
26) Hexane	5.79	57	1135052	9.897	ppbv 98
27) Carbon Disulfide	4.62	76	1499356	10.457	ppbv 99
28) Methyl tert-Butyl Ether	5.12	73	1914688	11.117	ppbv 100
29) Chloroform	5.86	83	1901703	9.294	ppbv 100
30) Cyclohexane	7.26	84	964901	10.151	ppbv 100
31) cis-1,2-Dichloroethene	5.65	61	1179329	11.206	ppbv 98
32) 1,1,1-Trichloroethane	6.63	97	1971143	9.104	ppbv 99
34) 2-Butanone	5.34	43	1549183	11.773	ppbv 100
35) Carbon Tetrachloride	7.14	117	2139869	9.012	ppbv 100
36) Benzene	7.01	78	2294201	10.325	ppbv 98
37) 1,2-Dichloroethane	6.42	62	1452593	9.602	ppbv 98
38) Trichloroethene	7.97	130	944622	10.215	ppbv 99
39) 1,2-Dichloropropane	7.75	63	820836	9.741	ppbv 96
40) 1,4-Dioxane	7.97	88	283724	9.141	ppbv # 98
41) Tetrahydrofuran	6.16	42	892257	10.903	ppbv 99
42) Bromodichloromethane	7.93	83	1961690	9.359	ppbv 100
43) Methyl Methacrylate	8.15	69	866950	10.530	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3689058	9.781	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1239018	12.274	ppbv	99
46) cis-1,3-Dichloropropene	8.85	75	1422446	11.513	ppbv	99
47) 1,1,2-Trichloroethane	9.63	97	938853m	10.122	ppbv	
48) Dibromochloromethane	10.46	129	1760089	10.115	ppbv	99
49) Bromoform	13.21	173	1801762	12.590	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2140030	10.170	ppbv	99
51) 2-Hexanone	10.28	43	1618823	11.344	ppbv #	98
52) Tetrachloroethene	11.38	164	924996	11.445	ppbv	98
53) Toluene	9.96	91	2621760	11.125	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1453911	10.034	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1457963	9.505	ppbv	97
57) Chlorobenzene	12.31	112	2406510	9.684	ppbv	97
58) Ethyl Benzene	12.88	91	4200586	11.444	ppbv	99
59) m/p-Xylene	13.14	91	7064826m	21.230	ppbv	
60) o-Xylene	13.86	91	3305086	9.835	ppbv	99
61) Styrene	13.70	104	2496526	11.168	ppbv	99
62) Isopropylbenzene	14.84	105	5131267	10.944	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2255323	8.643	ppbv	100
64) n-propylbenzene	15.74	120	1257455	10.326	ppbv	94
65) tert-Butylbenzene	16.92	119	4427422	10.186	ppbv	99
66) Benzyl Chloride	17.17	91	2638505	10.952	ppbv	99
67) sec-Butylbenzene	17.47	105	6178363	9.641	ppbv	100
69) p-Isopropyltoluene	17.83	119	5157753	9.931	ppbv	100
70) n-Butylbenzene	18.73	91	4560260	9.544	ppbv	99
71) 2-Chlorotoluene	15.63	91	3587889	10.290	ppbv	99
72) 4-Ethyltoluene	16.01	105	3964634	10.567	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	3859772	10.538	ppbv	97
74) 1,2,4-Trimethylbenzene	16.94	105	3965968	9.590	ppbv	97
75) 1,3-Dichlorobenzene	17.18	146	2254052	9.255	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2189794	9.636	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2235299	9.828	ppbv	99
78) Hexachloro-1,3-Butadiene	23.56	225	1274614	10.190	ppbv	99
79) Naphthalene	22.43	128	2818987	10.557	ppbv	98
80) Naphthalene, 2-methyl-	25.13	142	714610	12.525	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1398532	9.875	ppbv	100

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

