

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120319\
 Data File : VL034453.D
 Acq On : 3 Dec 2019 10:15
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

apatel
 12/3/2019 5:03:29 PM

Quant Time: Dec 03 12:16:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	958137	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1923419	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	2069983	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1686842	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1864238	10.755	ppbv	99
3) Chlorodifluoromethane	2.96	51	1090270	9.120	ppbv	98
4) Chloromethane	3.12	50	663087	9.404	ppbv	99
5) Vinyl Chloride	3.24	62	615254	9.313	ppbv	93
6) Bromomethane	3.46	94	321994	9.686	ppbv	96
7) Chloroethane	3.54	64	225195	9.391	ppbv	97
8) Dichlorotetrafluoroethane	3.17	85	1441737	9.262	ppbv	100
9) Propene	2.99	41	471866	8.891	ppbv	98
10) Heptane	8.16	43	1258127	9.186	ppbv	100
11) Trichlorofluoromethane	3.94	101	1640197	9.508	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1110898	9.697	ppbv	98
13) Ethanol	3.59	45	102261	6.917	ppbv	95
14) Bromoethene	3.73	108	439389	9.433	ppbv	99
15) Acetone	3.84	43	1179348	8.596	ppbv	99
16) 1,3-Butadiene	3.31	39	561875	9.401	ppbv	98
17) tert-Butyl alcohol	4.29	59	1010976	8.766	ppbv	99
18) 1,1-Dichloroethene	4.29	96	486566	9.710	ppbv	94
19) Isopropyl Alcohol	3.96	45	805169	9.156	ppbv #	99
20) Methylene Chloride	4.34	84	431017	8.859	ppbv	93
21) Allyl Chloride	4.41	41	845196	10.281	ppbv	100
22) trans-1,2-Dichloroethene	4.89	96	504251	9.982	ppbv	98
23) Vinyl Acetate	5.08	43	1744164	9.732	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1301316	9.452	ppbv	99
25) Ethyl Acetate	5.69	43	2237791	9.140	ppbv	100
26) Hexane	5.70	57	954581	9.074	ppbv	99
27) Carbon Disulfide	4.55	76	1272260	11.103	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	1673442	9.593	ppbv	100
29) Chloroform	5.77	83	1580917	9.280	ppbv	97
30) Cyclohexane	7.17	84	745812	9.377	ppbv	97
31) cis-1,2-Dichloroethene	5.57	61	1030872	9.482	ppbv	100
32) 1,1,1-Trichloroethane	6.54	97	1606836	10.060	ppbv	99
34) 2-Butanone	5.26	43	1476315	9.325	ppbv	99
35) Carbon Tetrachloride	7.05	117	1698336	10.270	ppbv	96
36) Benzene	6.92	78	1804601	9.386	ppbv	95
37) 1,2-Dichloroethane	6.34	62	1395055	9.767	ppbv	99
38) Trichloroethene	7.88	130	728476	9.232	ppbv	98
39) 1,2-Dichloropropane	7.65	63	749129	10.113	ppbv	93
40) 1,4-Dioxane	7.87	88	277200	8.567	ppbv #	100
41) Tetrahydrofuran	6.07	42	831008	9.358	ppbv	99
42) Bromodichloromethane	7.83	83	1760454	9.855	ppbv	97
43) Methyl Methacrylate	8.05	69	786046m	9.857	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3237570	9.214	ppbv	100
45) t-1,3-Dichloropropene	9.33	75	1104513	10.800	ppbv	97
46) cis-1,3-Dichloropropene	8.75	75	1201138	10.456	ppbv	97
47) 1,1,2-Trichloroethane	9.53	97	780741	9.475	ppbv	96
48) Dibromochloromethane	10.36	129	1453783	10.276	ppbv	99
49) Bromoform	13.11	173	1325514	10.495	ppbv	100
50) 4-Methyl-2-Pentanone	8.78	43	2193272	9.575	ppbv	100
51) 2-Hexanone	10.18	43	1841402	9.597	ppbv #	98
52) Tetrachloroethene	11.28	164	686981	8.258	ppbv	98
53) Toluene	9.86	91	2097652	9.605	ppbv	100
54) 1,2-Dibromoethane	10.67	107	1181946	9.356	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.19	131	969505	9.575	ppbv	96
57) Chlorobenzene	12.21	112	1630432	8.713	ppbv	98
58) Ethyl Benzene	12.77	91	2920388	9.091	ppbv	100
59) m/p-Xylene	13.06	91	4942624m	17.800	ppbv	
60) o-Xylene	13.76	91	2457779	8.952	ppbv	99
61) Styrene	13.59	104	1813656	9.161	ppbv	100
62) Isopropylbenzene	14.73	105	3192572	8.792	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.75	83	1716591	8.318	ppbv	100
64) n-propylbenzene	15.63	120	838478	8.892	ppbv	98
65) tert-Butylbenzene	16.82	119	2831606	8.682	ppbv	100
66) Benzyl Chloride	17.07	91	1450089	11.557	ppbv	99
67) sec-Butylbenzene	17.37	105	3958958	8.677	ppbv	99
69) p-Isopropyltoluene	17.73	119	3289711	8.688	ppbv	99
70) n-Butylbenzene	18.63	91	3508125	8.611	ppbv	99
71) 2-Chlorotoluene	15.53	91	2511895	8.676	ppbv	100
72) 4-Ethyltoluene	15.91	105	2821515	8.894	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	2701415	8.700	ppbv	97
74) 1,2,4-Trimethylbenzene	16.84	105	2800029	8.489	ppbv	96
75) 1,3-Dichlorobenzene	17.08	146	1591533	8.394	ppbv	100
76) 1,4-Dichlorobenzene	17.22	146	1590814	8.641	ppbv	99
77) 1,2-Dichlorobenzene	17.90	146	1549130	8.460	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	1406927	8.942	ppbv	99
79) Naphthalene	22.30	128	2380337	8.325	ppbv	97
80) Naphthalene, 2-methyl-	25.04	142	1307825	10.129	ppbv	99
81) 1,2,4-Trichlorobenzene	22.03	180	1434398	8.166	ppbv	99

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

