

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120219\
 Data File : VL034421.D
 Acq On : 2 Dec 2019 9:25
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

apatel
 12/4/2019 4:46:10 PM

Quant Time: Dec 03 03:04:51 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	935075	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1882343	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	2000468	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1674228	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	1957860	11.574	ppbv 98
3) Chlorodifluoromethane	2.96	51	1149987	9.857	ppbv 99
4) Chloromethane	3.12	50	697344	10.134	ppbv 99
5) Vinyl Chloride	3.24	62	645609	10.013	ppbv 93
6) Bromomethane	3.46	94	340588	10.499	ppbv 95
7) Chloroethane	3.54	64	240425	10.274	ppbv 97
8) Dichlorotetrafluoroethane	3.17	85	1491424	9.818	ppbv 100
9) Propene	2.99	41	500121	9.656	ppbv 98
10) Heptane	8.17	43	1339261	10.019	ppbv 100
11) Trichlorofluoromethane	3.94	101	1683864	10.002	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1139861	10.195	ppbv 99
13) Ethanol	3.60	45	108698m	7.534	ppbv
14) Bromoethene	3.73	108	464076	10.208	ppbv 98
15) Acetone	3.84	43	1247018	9.313	ppbv 100
16) 1,3-Butadiene	3.31	39	606251	10.394	ppbv 100
17) tert-Butyl alcohol	4.29	59	942984	8.378	ppbv 99
18) 1,1-Dichloroethene	4.29	96	511127	10.451	ppbv 96
19) Isopropyl Alcohol	3.96	45	752140	8.764	ppbv 100
20) Methylene Chloride	4.34	84	439908	9.265	ppbv 97
21) Allyl Chloride	4.41	41	875594	10.913	ppbv 100
22) trans-1,2-Dichloroethene	4.89	96	524637	10.642	ppbv 97
23) Vinyl Acetate	5.09	43	1847677	10.563	ppbv # 99
24) 1,1-Dichloroethane	5.02	63	1356489	10.096	ppbv 100
25) Ethyl Acetate	5.70	43	2351884	9.843	ppbv 99
26) Hexane	5.71	57	998381	9.724	ppbv 98
27) Carbon Disulfide	4.55	76	1338360	11.968	ppbv 98
28) Methyl tert-Butyl Ether	5.04	73	1745770	10.254	ppbv 100
29) Chloroform	5.78	83	1653578	9.945	ppbv 97
30) Cyclohexane	7.17	84	819221	10.554	ppbv 98
31) cis-1,2-Dichloroethene	5.57	61	1095651	10.327	ppbv 95
32) 1,1,1-Trichloroethane	6.54	97	1686563	10.819	ppbv 99
34) 2-Butanone	5.26	43	1565553	10.104	ppbv 99
35) Carbon Tetrachloride	7.06	117	1774094	10.962	ppbv 96
36) Benzene	6.93	78	1922209	10.215	ppbv 98
37) 1,2-Dichloroethane	6.34	62	1427940	10.215	ppbv 100
38) Trichloroethene	7.88	130	775227	10.039	ppbv 99
39) 1,2-Dichloropropane	7.65	63	806150	11.121	ppbv 99
40) 1,4-Dioxane	7.87	88	278203	8.785	ppbv # 97
41) Tetrahydrofuran	6.07	42	896137	10.312	ppbv 98
42) Bromodichloromethane	7.84	83	1856476	10.619	ppbv 100
43) Methyl Methacrylate	8.06	69	829744	10.632	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3441866	10.009	ppbv	100
45) t-1,3-Dichloropropene	9.33	75	1169367	11.683	ppbv	99
46) cis-1,3-Dichloropropene	8.75	75	1305780	11.615	ppbv	98
47) 1,1,2-Trichloroethane	9.53	97	828538	10.274	ppbv	97
48) Dibromochloromethane	10.37	129	1560518	11.271	ppbv	99
49) Bromoform	13.11	173	1405384	11.371	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	2305957	10.286	ppbv	100
51) 2-Hexanone	10.18	43	1954405	10.408	ppbv	98
52) Tetrachloroethene	11.28	164	741171	9.104	ppbv	98
53) Toluene	9.86	91	2244723	10.502	ppbv	99
54) 1,2-Dibromoethane	10.67	107	1260418	10.195	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.19	131	1019770	10.421	ppbv	96
57) Chlorobenzene	12.22	112	1729298	9.563	ppbv	99
58) Ethyl Benzene	12.78	91	3103565	9.997	ppbv	100
59) m/p-Xylene	13.06	91	5171873m	19.273	ppbv	
60) o-Xylene	13.76	91	2584387	9.740	ppbv	99
61) Styrene	13.60	104	1938188	10.130	ppbv	100
62) Isopropylbenzene	14.74	105	3390518	9.662	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.75	83	1820229m	9.127	ppbv	
64) n-propylbenzene	15.64	120	894033	9.811	ppbv	99
65) tert-Butylbenzene	16.82	119	3023734	9.593	ppbv	100
66) Benzyl Chloride	17.07	91	1570678	12.953	ppbv	100
67) sec-Butylbenzene	17.37	105	4138901	9.387	ppbv	100
69) p-Isopropyltoluene	17.73	119	3506721	9.583	ppbv	100
70) n-Butylbenzene	18.63	91	3712046	9.428	ppbv	99
71) 2-Chlorotoluene	15.53	91	2691927	9.621	ppbv	100
72) 4-Ethyltoluene	15.92	105	2997528	9.778	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	2874032	9.577	ppbv	97
74) 1,2,4-Trimethylbenzene	16.84	105	2973194	9.327	ppbv #	88
75) 1,3-Dichlorobenzene	17.08	146	1701714	9.287	ppbv	100
76) 1,4-Dichlorobenzene	17.22	146	1708064	9.600	ppbv	99
77) 1,2-Dichlorobenzene	17.90	146	1639129	9.262	ppbv	100
78) Hexachloro-1,3-Butadiene	23.46	225	1488721	9.791	ppbv	100
79) Naphthalene	22.31	128	2595297	9.392	ppbv	97
80) Naphthalene, 2-methyl-	25.05	142	1470148	11.782	ppbv	100
81) 1,2,4-Trichlorobenzene	22.03	180	1571848	9.259	ppbv	100

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

