

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031020\
 Data File : VL034883.D
 Acq On : 11 Mar 2020 9:38
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

sam
 3/16/2020 9:13:43 AM

Quant Time: Mar 11 12:54:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	924151	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2010623	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2062610	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1681655	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1545717	12.214	ppbv	99
3) Chlorodifluoromethane	2.95	51	987707	9.568	ppbv	96
4) Chloromethane	3.10	50	577552	9.899	ppbv	99
5) Vinyl Chloride	3.22	62	555992	9.912	ppbv	93
6) Bromomethane	3.44	94	333929	10.227	ppbv	100
7) Chloroethane	3.52	64	210426	10.388	ppbv	97
8) Dichlorotetrafluoroethane	3.15	85	1263430	9.613	ppbv	96
9) Propene	2.97	41	448590	9.101	ppbv	100
10) Heptane	8.13	43	1203699	9.923	ppbv	99
11) Trichlorofluoromethane	3.92	101	1281002	9.515	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	903930	9.593	ppbv	95
13) Ethanol	3.57	45	111859	7.465	ppbv	97
14) Bromoethene	3.71	108	392152	9.636	ppbv	99
15) Acetone	3.82	43	1166028	9.735	ppbv	99
16) 1,3-Butadiene	3.29	39	533506	9.850	ppbv	99
17) tert-Butyl alcohol	4.27	59	826910	7.166	ppbv	99
18) 1,1-Dichloroethene	4.26	96	408433	9.788	ppbv	99
19) Isopropyl Alcohol	3.94	45	563356	7.448	ppbv #	42
20) Methylene Chloride	4.32	84	358765	9.474	ppbv	95
21) Allyl Chloride	4.38	41	719444	9.352	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	415863	9.823	ppbv	96
23) Vinyl Acetate	5.06	43	1719218	9.717	ppbv	98
24) 1,1-Dichloroethane	4.99	63	1127611	9.507	ppbv	99
25) Ethyl Acetate	5.66	43	2006120	9.401	ppbv	100
26) Hexane	5.67	57	894717	9.737	ppbv	98
27) Carbon Disulfide	4.53	76	989603	9.490	ppbv	98
28) Methyl tert-Butyl Ether	5.01	73	1385773	9.064	ppbv	99
29) Chloroform	5.74	83	1355434	9.668	ppbv	96
30) Cyclohexane	7.13	84	739247	9.642	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	913908	9.725	ppbv	99
32) 1,1,1-Trichloroethane	6.51	97	1327524	9.717	ppbv	99
34) 2-Butanone	5.23	43	1342896	10.050	ppbv	100
35) Carbon Tetrachloride	7.02	117	1335322	10.678	ppbv	99
36) Benzene	6.90	78	1771289	9.883	ppbv	99
37) 1,2-Dichloroethane	6.30	62	1053458	10.425	ppbv	98
38) Trichloroethene	7.84	130	675575	9.925	ppbv	97
39) 1,2-Dichloropropane	7.62	63	680774	9.588	ppbv	94
40) 1,4-Dioxane	7.83	88	226811	8.458	ppbv #	88
41) Tetrahydrofuran	6.04	42	739368	10.227	ppbv	100
42) Bromodichloromethane	7.80	83	1411335	10.247	ppbv	96
43) Methyl Methacrylate	8.02	69	811662	10.750	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.87	57	3069043	10.134	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	930081	10.485	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1099755	10.433	ppbv	97
47) 1,1,2-Trichloroethane	9.49	97	727655	9.986	ppbv	97
48) Dibromochloromethane	10.33	129	1153192	9.772	ppbv	100
49) Bromoform	13.07	173	993639	9.443	ppbv	100
50) 4-Methyl-2-Pentanone	8.75	43	1995018	10.372	ppbv	99
51) 2-Hexanone	10.15	43	1614668	10.330	ppbv #	99
52) Tetrachloroethene	11.25	164	618887	8.729	ppbv	96
53) Toluene	9.82	91	2060294	9.955	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1087591	9.915	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.15	131	878729	9.484	ppbv	99
57) Chlorobenzene	12.17	112	1508654	9.348	ppbv	94
58) Ethyl Benzene	12.73	91	2732807	9.784	ppbv	100
59) m/p-Xylene	13.00	91	4617560m	19.732	ppbv	
60) o-Xylene	13.72	91	2214113	9.690	ppbv	98
61) Styrene	13.56	104	1606539m	10.019	ppbv	
62) Isopropylbenzene	14.70	105	3216140	9.309	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	1516029	9.774	ppbv	99
64) n-propylbenzene	15.59	120	848229	9.433	ppbv	94
65) tert-Butylbenzene	16.78	119	2787533	9.230	ppbv	97
66) Benzyl Chloride	17.03	91	1229385	9.762	ppbv	97
67) sec-Butylbenzene	17.33	105	3997432	9.545	ppbv	99
69) p-Isopropyltoluene	17.69	119	3327897	9.477	ppbv	99
70) n-Butylbenzene	18.59	91	3532972	9.861	ppbv	99
71) 2-Chlorotoluene	15.49	91	2463796	9.417	ppbv	99
72) 4-Ethyltoluene	15.87	105	2621817	9.716	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2462051	9.747	ppbv	95
74) 1,2,4-Trimethylbenzene	16.80	105	2563912	9.852	ppbv	97
75) 1,3-Dichlorobenzene	17.04	146	1458500	9.295	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1481486	9.461	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	1434003	9.428	ppbv	97
78) Hexachloro-1,3-Butadiene	23.42	225	1274997	10.036	ppbv	99
79) Naphthalene	22.25	128	2548029	12.555	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	986379	18.598	ppbv	98
81) 1,2,4-Trichlorobenzene	21.99	180	1459613	11.320	ppbv	100

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

