

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030620\
 Data File : VL034819.D
 Acq On : 6 Mar 2020 15:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/9/2020 9:20:23 AM

Quant Time: Mar 06 18:51:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 0
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	879506	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.20	114	2038779	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.13	117	2077980m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1597551	9.22	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	925697	6.450	ppbv	100
3) Chlorodifluoromethane	2.95	51	849649	8.479	ppbv	97
4) Chloromethane	3.11	50	507960	9.412	ppbv	99
5) Vinyl Chloride	3.23	62	468909	8.224	ppbv	100
6) Bromomethane	3.45	94	269734	8.668	ppbv	98
7) Chloroethane	3.53	64	171363	8.692	ppbv	98
8) Dichlorotetrafluoroethane	3.16	85	1025795	8.227	ppbv	91
9) Propene	2.98	41	432624	10.969	ppbv	99
10) Heptane	8.14	43	1092580	10.900	ppbv	95
11) Trichlorofluoromethane	3.93	101	1050213	8.177	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	751140	8.476	ppbv	91
13) Ethanol	3.58	45	114484	8.472	ppbv	100
14) Bromoethene	3.72	108	337871	9.292	ppbv	97
15) Acetone	3.83	43	937301	8.900	ppbv	99
16) 1,3-Butadiene	3.30	39	455841	9.566	ppbv	99
17) tert-Butyl alcohol	4.28	59	1056605	12.723	ppbv	99
18) 1,1-Dichloroethene	4.28	96	350108	8.958	ppbv	95
19) Isopropyl Alcohol	3.95	45	683658	10.834	ppbv	# 1
20) Methylene Chloride	4.33	84	302313	8.043	ppbv	99
21) Allyl Chloride	4.40	41	653325	9.796	ppbv	96
22) trans-1,2-Dichloroethene	4.88	96	353099	9.255	ppbv	98
23) Vinyl Acetate	5.07	43	1580457	11.191	ppbv	99
24) 1,1-Dichloroethane	5.01	63	962784	8.783	ppbv	99
25) Ethyl Acetate	5.68	43	1778804	9.774	ppbv	100
26) Hexane	5.69	57	774193	9.737	ppbv	97
27) Carbon Disulfide	4.54	76	934741	10.064	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	1286971	10.875	ppbv	99
29) Chloroform	5.76	83	1110948	8.301	ppbv	98
30) Cyclohexane	7.15	84	670607	11.025	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	793345	9.728	ppbv	100
32) 1,1,1-Trichloroethane	6.52	97	1116998	8.446	ppbv	97
34) 2-Butanone	5.24	43	1219029	9.191	ppbv	99
35) Carbon Tetrachloride	7.03	117	1167731	7.591	ppbv	96
36) Benzene	6.91	78	1589767	9.125	ppbv	98
37) 1,2-Dichloroethane	6.32	62	867118	7.287	ppbv	97
38) Trichloroethene	7.86	130	614140	9.045	ppbv	93
39) 1,2-Dichloropropane	7.64	63	634977	9.031	ppbv	93
40) 1,4-Dioxane	7.85	88	217472	8.943	ppbv	# 97
41) Tetrahydrofuran	6.05	42	708720	10.472	ppbv	94
42) Bromodichloromethane	7.82	83	1230693	8.174	ppbv	99
43) Methyl Methacrylate	8.04	69	707254	9.580	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	2723835	8.947	ppbv	98
45) t-1,3-Dichloropropene	9.31	75	882542	11.387	ppbv	99
46) cis-1,3-Dichloropropene	8.73	75	1020720	10.786	ppbv	94
47) 1,1,2-Trichloroethane	9.51	97	628958	8.473	ppbv	95
48) Dibromochloromethane	10.34	129	1088992	9.382	ppbv	99
49) Bromoform	13.09	173	976810	9.644	ppbv	100
50) 4-Methyl-2-Pentanone	8.77	43	1756012	9.240	ppbv	99
51) 2-Hexanone	10.17	43	1469203	9.855	ppbv #	99
52) Tetrachloroethene	11.26	164	593229	9.217	ppbv	98
53) Toluene	9.84	91	1841121	9.985	ppbv	99
54) 1,2-Dibromoethane	10.65	107	957935	8.728	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.17	131	808185	8.778	ppbv #	61
57) Chlorobenzene	12.19	112	1336134	8.417	ppbv	98
58) Ethyl Benzene	12.75	91	2406404	9.397	ppbv	93
59) m/p-Xylene	13.01	91	3898713m	17.588	ppbv	
60) o-Xylene	13.74	91	1854023	8.266	ppbv	96
61) Styrene	13.57	104	1457730	10.477	ppbv	96
62) Isopropylbenzene	14.71	105	2867377	8.686	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	1248982	7.064	ppbv	99
64) n-propylbenzene	15.61	120	760205	9.185	ppbv	91
65) tert-Butylbenzene	16.79	119	2498526	8.957	ppbv	93
66) Benzyl Chloride	17.04	91	1368632	15.175	ppbv	94
67) sec-Butylbenzene	17.35	105	3497788	8.605	ppbv	99
69) p-Isopropyltoluene	17.71	119	3001422	9.124	ppbv	97
70) n-Butylbenzene	18.60	91	3039560	8.450	ppbv	98
71) 2-Chlorotoluene	15.50	91	2137143	8.572	ppbv	95
72) 4-Ethyltoluene	15.89	105	2322569	9.301	ppbv	98
73) 1,3,5-Trimethylbenzene	16.05	105	2143252	8.948	ppbv	97
74) 1,2,4-Trimethylbenzene	16.82	105	2179211	8.369	ppbv	93
75) 1,3-Dichlorobenzene	17.05	146	1318252	8.552	ppbv	98
76) 1,4-Dichlorobenzene	17.19	146	1333662	9.042	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	1303878	8.842	ppbv	97
78) Hexachloro-1,3-Butadiene	23.43	225	1158420	9.413	ppbv	99
79) Naphthalene	22.27	128	2404306	12.287	ppbv	97
80) Naphthalene, 2-methyl-	25.03	142	683184	14.617	ppbv	99
81) 1,2,4-Trichlorobenzene	22.00	180	1390609	11.242	ppbv	100

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

