

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110320\
 Data File : VL035799.D
 Acq On : 3 Nov 2020 10:30
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 2:13:05 PM

Quant Time: Nov 03 14:49:04 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110320AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 2

QLast Update : Wed Sep 23 07:38:05 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1230599	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.18	114	4801765	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	4464913m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3293410	9.84	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	1923783	9.527	ppbv	100
3) Chlorodifluoromethane	2.98	51	1296686	9.794	ppbv	98
4) Chloromethane	3.14	50	646760	9.094	ppbv	99
5) Vinyl Chloride	3.25	62	796972	9.474	ppbv	100
6) Bromomethane	3.47	94	655852	9.223	ppbv	98
7) Chloroethane	3.56	64	291898	9.461	ppbv	100
8) Dichlorotetrafluoroethane	3.18	85	2265732	9.251	ppbv	100
9) Propene	3.01	41	491551	10.226	ppbv	100
10) Heptane	8.13	43	1356187	10.120	ppbv	99
11) Trichlorofluoromethane	3.95	101	2612989	9.070	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1961052	9.131	ppbv	100
13) Ethanol	3.61	45	88944	7.503	ppbv	94
14) Bromoethene	3.74	108	869199	9.608	ppbv	99
15) Acetone	3.85	43	1064750	8.041	ppbv	100
16) 1,3-Butadiene	3.32	39	501590	10.354	ppbv	100
17) tert-Butyl alcohol	4.29	59	1531840	10.620	ppbv	99
18) 1,1-Dichloroethene	4.29	96	893972	9.507	ppbv	99
19) Isopropyl Alcohol	3.97	45	702167	9.748	ppbv	99
20) Methylene Chloride	4.34	84	732228	7.528	ppbv	97
21) Allyl Chloride	4.41	41	665273	10.365	ppbv	97
22) trans-1,2-Dichloroethene	4.88	96	926430	9.325	ppbv	98
23) Vinyl Acetate	5.07	43	1612049	9.939	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1555955	8.808	ppbv	99
25) Ethyl Acetate	5.68	43	2309036	9.691	ppbv	99
26) Hexane	5.69	57	1237504	9.478	ppbv	96
27) Carbon Disulfide	4.55	76	2004821	10.302	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	2180763	10.537	ppbv	100
29) Chloroform	5.75	83	2466957	9.304	ppbv	99
30) Cyclohexane	7.13	84	1332225	10.342	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	1320644	10.478	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	2446765	10.468	ppbv	99
34) 2-Butanone	5.24	43	1475947	9.293	ppbv	99
35) Carbon Tetrachloride	7.02	117	2448215	9.779	ppbv	97
36) Benzene	6.90	78	3167224	10.123	ppbv	100
37) 1,2-Dichloroethane	6.31	62	1550570	9.508	ppbv	100
38) Trichloroethene	7.84	130	1480128	9.483	ppbv	99
39) 1,2-Dichloropropane	7.62	63	1082361	9.544	ppbv	99
40) 1,4-Dioxane	7.83	88	510492	9.843	ppbv	98
41) Tetrahydrofuran	6.05	42	875140	10.937	ppbv	99
42) Bromodichloromethane	7.80	83	2626114	9.997	ppbv	99
43) Methyl Methacrylate	8.02	69	1294829	10.405	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4213897	9.386	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1436215	11.432	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1748291	11.289	ppbv	97
47) 1,1,2-Trichloroethane	9.48	97	1466641	9.029	ppbv	99
48) Dibromochloromethane	10.31	129	2427153	9.818	ppbv	100
49) Bromoform	13.05	173	2078262	9.907	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	2280087	9.829	ppbv	99
51) 2-Hexanone	10.14	43	1862506	9.965	ppbv #	99
52) Tetrachloroethene	11.23	164	1390863	9.244	ppbv	99
53) Toluene	9.81	91	3813582	10.336	ppbv	100
54) 1,2-Dibromoethane	10.62	107	2245515	9.232	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.14	131	1865585	9.965	ppbv	96
57) Chlorobenzene	12.16	112	3070327	9.104	ppbv	98
58) Ethyl Benzene	12.72	91	4866284	10.859	ppbv	98
59) m/p-Xylene	13.01	91	8216779m	20.996	ppbv	
60) o-Xylene	13.70	91	3976827	10.045	ppbv	99
61) Styrene	13.54	104	3079375	11.249	ppbv	100
62) Isopropylbenzene	14.68	105	5994220	9.762	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.69	83	2814774	8.671	ppbv	100
64) n-propylbenzene	15.58	120	1779083	9.899	ppbv	94
65) tert-Butylbenzene	16.76	119	5332554	9.552	ppbv	99
66) Benzyl Chloride	17.00	91	1921017	11.357	ppbv	98
67) sec-Butylbenzene	17.31	105	7128857	9.247	ppbv	99
69) p-Isopropyltoluene	17.67	119	5910560	9.423	ppbv	98
70) n-Butylbenzene	18.56	91	5794132	8.971	ppbv	98
71) 2-Chlorotoluene	15.46	91	4483095	10.009	ppbv	100
72) 4-Ethyltoluene	15.85	105	4734524	10.095	ppbv	99
73) 1,3,5-Trimethylbenzene	16.01	105	4351362	9.819	ppbv	97
74) 1,2,4-Trimethylbenzene	16.78	105	4493445	8.994	ppbv	97
75) 1,3-Dichlorobenzene	17.01	146	2871840	8.420	ppbv	99
76) 1,4-Dichlorobenzene	17.15	146	2833248	8.690	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	2757096	8.558	ppbv	99
78) Hexachloro-1,3-Butadiene	23.39	225	1289044	7.253	ppbv	99
79) Naphthalene	22.22	128	3192439	6.700	ppbv	99
80) Naphthalene,2-methyl-	24.99	142	632868	5.631	ppbv	99
81) 1,2,4-Trichlorobenzene	21.95	180	1749222	7.084	ppbv	99

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

