

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036314.D
 Acq On : 10 Feb 2021 11:19
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 2/12/2021 1:41:48 PM

Quant Time: Feb 10 13:51:06 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1577492	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3562996	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	3285887m	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2832778	10.42	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1999093	9.454	ppbv	100
3) Chlorodifluoromethane	2.97	51	1629634	8.412	ppbv	98
4) Chloromethane	3.12	50	781388	8.160	ppbv	98
5) Vinyl Chloride	3.24	62	780925	8.619	ppbv	96
6) Bromomethane	3.46	94	449666	8.877	ppbv	98
7) Chloroethane	3.54	64	273120	8.753	ppbv	99
8) Dichlorotetrafluoroethane	3.17	85	1814004	8.855	ppbv	99
9) Propene	2.99	41	733648	7.952	ppbv	99
10) Heptane	8.10	43	1883823	8.226	ppbv	98
11) Trichlorofluoromethane	3.93	101	1932283	8.988	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1179160	9.047	ppbv	98
13) Ethanol	3.59	45	109667	7.570	ppbv	94
14) Bromoethene	3.72	108	512297	8.632	ppbv	98
15) Acetone	3.83	43	1462246	7.569	ppbv	99
16) 1,3-Butadiene	3.31	39	762971	8.107	ppbv	97
17) tert-Butyl alcohol	4.27	59	1286592m	8.070	ppbv	
18) 1,1-Dichloroethene	4.27	96	545868m	9.034	ppbv	
19) Isopropyl Alcohol	3.95	45	848857	7.288	ppbv	100
20) Methylene Chloride	4.32	84	478969m	7.768	ppbv	
21) Allyl Chloride	4.39	41	901813	8.575	ppbv	97
22) trans-1,2-Dichloroethene	4.86	96	506794	9.078	ppbv	99
23) Vinyl Acetate	5.05	43	1990540	8.503	ppbv #	98
24) 1,1-Dichloroethane	4.99	63	1442198	8.505	ppbv	98
25) Ethyl Acetate	5.65	43	3160273	8.148	ppbv	100
26) Hexane	5.66	57	1286784	7.968	ppbv	98
27) Carbon Disulfide	4.53	76	1324560	10.258	ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	1744372	7.987	ppbv	97
29) Chloroform	5.73	83	2052811	8.878	ppbv	96
30) Cyclohexane	7.10	84	1068787	8.661	ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	1307850	8.473	ppbv	95
32) 1,1,1-Trichloroethane	6.49	97	1995658	8.924	ppbv	100
34) 2-Butanone	5.22	43	1979545	7.544	ppbv	98
35) Carbon Tetrachloride	7.00	117	2072195	9.205	ppbv	96
36) Benzene	6.87	78	2680686	8.211	ppbv	99
37) 1,2-Dichloroethane	6.28	62	1661706m	8.459	ppbv	
38) Trichloroethene	7.81	130	924334	7.644	ppbv	97
39) 1,2-Dichloropropane	7.59	63	1086231	8.195	ppbv	96
40) 1,4-Dioxane	7.81	88	359922	7.506	ppbv #	24
41) Tetrahydrofuran	6.02	42	1178554	7.772	ppbv	98
42) Bromodichloromethane	7.77	83	2236410	9.057	ppbv	97
43) Methyl Methacrylate	7.99	69	1205732	8.691	ppbv	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.84	57	4625295	7.713	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	1300649	9.870	ppbv	100
46) cis-1,3-Dichloropropene	8.68	75	1569042	9.266	ppbv	98
47) 1,1,2-Trichloroethane	9.45	97	1066925	8.414	ppbv	94
48) Dibromochloromethane	10.28	129	1782459	9.608	ppbv	99
49) Bromoform	13.02	173	1465918	9.466	ppbv	99
50) 4-Methyl-2-Pentanone	8.72	43	3145085	8.039	ppbv	100
51) 2-Hexanone	10.11	43	2507713	8.125	ppbv #	97
52) Tetrachloroethene	11.20	164	870740	7.238	ppbv	97
53) Toluene	9.78	91	3002219	8.221	ppbv	100
54) 1,2-Dibromoethane	10.59	107	1599084	8.507	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.10	131	1322688	9.020	ppbv #	55
57) Chlorobenzene	12.13	112	2138147	8.294	ppbv	96
58) Ethyl Benzene	12.69	91	4110158	8.429	ppbv	98
59) m/p-Xylene	12.97	91	6961812m	16.616	ppbv	
60) o-Xylene	13.67	91	3239543	8.021	ppbv	100
61) Styrene	13.51	104	2331575	9.142	ppbv	99
62) Isopropylbenzene	14.64	105	4833627	8.050	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	2339758	7.781	ppbv	100
64) n-propylbenzene	15.54	120	1265466	8.577	ppbv	98
65) tert-Butylbenzene	16.72	119	4103854	8.066	ppbv	99
66) Benzyl Chloride	16.97	91	1459832	11.230	ppbv	99
67) sec-Butylbenzene	17.27	105	5931657	7.853	ppbv	100
69) p-Isopropyltoluene	17.63	119	4827278	8.059	ppbv	100
70) n-Butylbenzene	18.53	91	5126311	8.032	ppbv	99
71) 2-Chlorotoluene	15.43	91	3850774	8.159	ppbv	100
72) 4-Ethyltoluene	15.82	105	3807919	8.355	ppbv	98
73) 1,3,5-Trimethylbenzene	15.98	105	3556689	8.187	ppbv	97
74) 1,2,4-Trimethylbenzene	16.74	105	3616750	8.116	ppbv	97
75) 1,3-Dichlorobenzene	16.98	146	1950866	8.162	ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	1999995m	8.470	ppbv	
77) 1,2-Dichlorobenzene	17.79	146	1903484	8.154	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	1317755	7.057	ppbv	99
79) Naphthalene	22.17	128	2495396m	9.580	ppbv	
80) Naphthalene, 2-methyl-	24.96	142	425844	7.661	ppbv	95
81) 1,2,4-Trichlorobenzene	21.90	180	1309391	8.610	ppbv	99

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

