

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111323\
 Data File : VL040842.D
 Acq On : 13 Nov 2023 16:01
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111323

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/15/2023
 Supervised By :Semsettin Yesilyurt 11/15/2023

Quant Time: Nov 13 16:44:11 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Mon Nov 13 15:42:46 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.198	49	1188652	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	6.651	114	3060801	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.452	117	3037062m	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.764 95 2304142 9.690 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.758	85	2101680	8.722	ppbv	100
3) Chlorodifluoromethane	2.703	51	1691479	8.913	ppbv	99
4) Chloromethane	2.841	50	614786	9.009	ppbv	100
5) Vinyl Chloride	2.944	62	643432	9.480	ppbv	100
6) Bromomethane	3.144	94	236353	9.123	ppbv	99
7) Chloroethane	3.221	64	212295	9.033	ppbv	96
8) Dichlorotetrafluoroethane	2.883	85	1560562	8.969	ppbv	99
9) Propene	2.722	41	584981	9.146	ppbv	99
10) Heptane	7.574	43	1464250	9.306	ppbv	99
11) Trichlorofluoromethane	3.581	101	1680943	9.079	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.082	101	1195987	9.093	ppbv	99
13) Ethanol	3.259	45	98454	7.928	ppbv #	100
14) Bromoethene	3.385	108	513562	9.707	ppbv	99
15) Acetone	3.488	43	1137807	8.988	ppbv	99
16) 1,3-Butadiene	3.008	39	621599	9.705	ppbv	99
17) tert-Butyl alcohol	3.896	59	1013933	9.366	ppbv	100
18) 1,1-Dichloroethene	3.896	96	525126	8.957	ppbv	94
19) Isopropyl Alcohol	3.594	45	741496	9.733	ppbv	99
20) Methylene Chloride	3.947	84	429284	8.217	ppbv	97
21) Allyl Chloride	4.012	41	768786	9.489	ppbv	99
22) trans-1,2-Dichloroethene	4.455	96	569825	8.564	ppbv	96
23) Vinyl Acetate	4.635	43	1603288	9.808	ppbv	100
24) 1,1-Dichloroethane	4.571	63	1145256	7.860	ppbv	99
25) Ethyl Acetate	5.208	43	2480499	9.463	ppbv	99
26) Hexane	5.217	57	1074548	9.262	ppbv	99
27) Carbon Disulfide	4.137	76	1382530	9.398	ppbv	100
28) Methyl tert-Butyl Ether	4.597	73	891686	8.499	ppbv	98
29) Chloroform	5.282	83	1779044	9.048	ppbv	96
30) Cyclohexane	6.600	84	936472	9.383	ppbv	99
31) cis-1,2-Dichloroethene	5.086	61	1125466	9.804	ppbv	98
32) 1,1,1-Trichloroethane	6.005	97	1793724	9.778	ppbv	99
34) 2-Butanone	4.793	43	1521674	9.759	ppbv	99
35) Carbon Tetrachloride	6.491	117	1886320	10.045	ppbv	99
36) Benzene	6.372	78	2310381	9.300	ppbv	98
37) 1,2-Dichloroethane	5.809	62	1383005	9.440	ppbv	99
38) Trichloroethene	7.291	130	853726	8.842	ppbv	97
39) 1,2-Dichloropropane	7.073	63	903522	9.173	ppbv	95
40) 1,4-Dioxane	7.282	88	338140	8.652	ppbv #	97
41) Tetrahydrofuran	5.558	42	962225	10.023	ppbv	99
42) Bromodichloromethane	7.246	83	1990673	9.494	ppbv	99
43) Methyl Methacrylate	7.468	69	969064	10.237	ppbv	99
44) 2,2,4-Trimethylpentane	7.323	57	3770963	9.139	ppbv	100
45) t-1,3-Dichloropropene	8.703	75	620480	11.154	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111323\
 Data File : VL040842.D
 Acq On : 13 Nov 2023 16:01
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111323

Manual Integrations
 APPROVED

Reviewed By : Mahesh Dadoda 11/15/2023
 Supervised By : Semsettin Yesilyurt 11/15/2023

Quant Time: Nov 13 16:44:11 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Mon Nov 13 15:42:46 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	758840	10.521	ppbv	97
47) 1,1,2-Trichloroethane	8.889	97	949609	9.201	ppbv	97
48) Dibromochloromethane	9.700	129	1699272	9.923	ppbv	100
49) Bromoform	12.394	173	1345003	10.442	ppbv	99
50) 4-Methyl-2-Pentanone	8.172	43	2384967	9.883	ppbv	100
51) 2-Hexanone	9.542	43	1727898	10.158	ppbv #	98
52) Tetrachloroethene	10.603	164	789068	9.433	ppbv	98
53) Toluene	9.214	91	2606324	9.534	ppbv	100
54) 1,2-Dibromoethane	9.999	107	1325859	9.982	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.497	131	1191982	9.170	ppbv	98
57) Chlorobenzene	11.513	112	1999278	8.881	ppbv	98
58) Ethyl Benzene	12.076	91	3525229	8.896	ppbv	98
59) m/p-Xylene	12.359	91	5915189m	17.529	ppbv	
60) o-Xylene	13.043	91	2792834	8.694	ppbv	99
61) Styrene	12.883	104	1488888	9.611	ppbv	99
62) Isopropylbenzene	14.014	105	4101396	8.642	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.034	83	2015425	8.852	ppbv	100
64) n-propylbenzene	14.902	120	1064028	8.945	ppbv	100
65) tert-Butylbenzene	16.079	119	3541850	8.851	ppbv	100
66) Benzyl Chloride	16.310	91	146125m	9.910	ppbv	
67) sec-Butylbenzene	16.619	105	4976252	8.705	ppbv	100
69) p-Isopropyltoluene	16.982	119	4042810	8.869	ppbv	99
70) n-Butylbenzene	17.873	91	4255355	8.841	ppbv	100
71) 2-Chlorotoluene	14.786	91	3173568	8.772	ppbv	98
72) 4-Ethyltoluene	15.178	105	3202689	9.069	ppbv	100
73) 1,3,5-Trimethylbenzene	15.333	105	2778206	8.896	ppbv	100
74) 1,2,4-Trimethylbenzene	16.092	105	3007923	8.630	ppbv	97
75) 1,3-Dichlorobenzene	16.317	146	1709242	8.882	ppbv	99
76) 1,4-Dichlorobenzene	16.458	146	1673996	9.086	ppbv	99
77) 1,2-Dichlorobenzene	17.127	146	1660372	8.873	ppbv	99
78) Hexachloro-1,3-Butadiene	22.615	225	945952	8.074	ppbv	99
79) Naphthalene	21.371	128	2116125	11.813	ppbv	98
80) Naphthalene,2-methyl-	24.365	142	456712	14.443	ppbv	98
81) 1,2,4-Trichlorobenzene	21.127	180	1078580	9.904	ppbv	100

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

