

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040760.D
 Acq On : 11 Oct 2023 15:51
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/12/2023
 Supervised By : Mahesh Dadoda 10/16/2023

Quant Time: Oct 11 16:21:11 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

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

QLast Update : Wed Oct 11 14:34:59 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.214	49	1067156	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2977892	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2977568	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.789 95 2154780 9.367 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.764	85	2617160	11.131	ppbv	98
3) Chlorodifluoromethane	2.709	51	2179118	12.534	ppbv	100
4) Chloromethane	2.845	50	874912	13.145	ppbv	99
5) Vinyl Chloride	2.954	62	879572	11.182	ppbv	96
6) Bromomethane	3.150	94	390536	10.290	ppbv	99
7) Chloroethane	3.227	64	301108	11.145	ppbv	98
8) Dichlorotetrafluoroethane	2.890	85	1960689	10.101	ppbv	96
9) Propene	2.729	41	824359	16.460	ppbv	97
10) Heptane	7.597	43	2031597	18.002	ppbv	100
11) Trichlorofluoromethane	3.591	101	2067091	10.000	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.092	101	1467962	9.928	ppbv	100
13) Ethanol	3.272	45	163613	11.037	ppbv	97
14) Bromoethene	3.394	108	643226	10.372	ppbv	97
15) Acetone	3.494	43	1486178	10.558	ppbv	99
16) 1,3-Butadiene	3.015	39	853938	13.920	ppbv	99
17) tert-Butyl alcohol	3.906	59	1414607	9.811	ppbv	100
18) 1,1-Dichloroethene	3.906	96	666766	10.145	ppbv	99
19) Isopropyl Alcohol	3.603	45	949716	11.197	ppbv	92
20) Methylene Chloride	3.960	84	549504	7.253	ppbv	94
21) Allyl Chloride	4.021	41	1068129	12.382	ppbv	99
22) trans-1,2-Dichloroethene	4.471	96	853209	13.130	ppbv	98
23) Vinyl Acetate	4.652	43	2479878	17.035	ppbv	98
24) 1,1-Dichloroethane	4.587	63	1856515	13.628	ppbv	98
25) Ethyl Acetate	5.227	43	3387780	14.923	ppbv	100
26) Hexane	5.237	57	1505796	14.027	ppbv	99
27) Carbon Disulfide	4.150	76	1778268	11.879	ppbv	99
28) Methyl tert-Butyl Ether	4.610	73	1544387	16.721	ppbv	98
29) Chloroform	5.298	83	2300721	12.413	ppbv	98
30) Cyclohexane	6.623	84	1316698	16.288	ppbv	98
31) cis-1,2-Dichloroethene	5.102	61	1542498	15.487	ppbv	99
32) 1,1,1-Trichloroethane	6.024	97	2336836	12.332	ppbv	99
34) 2-Butanone	4.809	43	2141636	14.300	ppbv	97
35) Carbon Tetrachloride	6.513	117	2443629	11.951	ppbv	97
36) Benzene	6.391	78	3219244	14.599	ppbv	100
37) 1,2-Dichloroethane	5.832	62	1739732	11.527	ppbv	99
38) Trichloroethene	7.311	130	1263778	15.028	ppbv	98
39) 1,2-Dichloropropane	7.092	63	1265293	14.907	ppbv	100
40) 1,4-Dioxane	7.301	88	468819	14.610	ppbv #	52
41) Tetrahydrofuran	5.578	42	1382163	17.998	ppbv	99
42) Bromodichloromethane	7.269	83	2550114	12.384	ppbv	98
43) Methyl Methacrylate	7.494	69	1350177	16.473	ppbv	98
44) 2,2,4-Trimethylpentane	7.346	57	5169123	14.722	ppbv	99
45) t-1,3-Dichloropropene	8.725	75	1195669	18.812	ppbv	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.163	75	1352875	17.397	ppbv	98
47) 1,1,2-Trichloroethane	8.918	97	1329789	13.651	ppbv	98
48) Dibromochloromethane	9.729	129	2340656	14.566	ppbv	100
49) Bromoform	12.423	173	1971116	14.936	ppbv	99
50) 4-Methyl-2-Pentanone	8.195	43	3280519	16.210	ppbv	100
51) 2-Hexanone	9.565	43	2506096	17.942	ppbv #	99
52) Tetrachloroethene	10.632	164	1226536	17.051	ppbv	97
53) Toluene	9.237	91	3744491	16.084	ppbv	100
54) 1,2-Dibromoethane	10.028	107	1949799	15.682	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.526	131	1664595	11.728	ppbv	96
57) Chlorobenzene	11.545	112	2852906	12.652	ppbv	98
58) Ethyl Benzene	12.105	91	4944221	14.564	ppbv	100
59) m/p-Xylene	12.388	91	8050652m	25.255	ppbv	
60) o-Xylene	13.076	91	3808798	12.529	ppbv	99
61) Styrene	12.912	104	2313412	18.158	ppbv	100
62) Isopropylbenzene	14.043	105	5856158	12.758	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.060	83	2723791	11.432	ppbv	99
64) n-propylbenzene	14.931	120	1643180	14.318	ppbv	96
65) tert-Butylbenzene	16.104	119	5118402	12.424	ppbv	100
66) Benzyl Chloride	16.342	91	679722	14.137	ppbv	100
67) sec-Butylbenzene	16.648	105	7126812	12.084	ppbv	100
69) p-Isopropyltoluene	17.011	119	6038125	13.027	ppbv	99
70) n-Butylbenzene	17.899	91	6030712	11.821	ppbv	99
71) 2-Chlorotoluene	14.815	91	4470181	13.163	ppbv	99
72) 4-Ethyltoluene	15.207	105	4769025	13.989	ppbv	99
73) 1,3,5-Trimethylbenzene	15.365	105	4112917	13.399	ppbv	99
74) 1,2,4-Trimethylbenzene	16.124	105	4316410	11.535	ppbv	98
75) 1,3-Dichlorobenzene	16.346	146	2784299	13.059	ppbv	99
76) 1,4-Dichlorobenzene	16.487	146	2789049	13.295	ppbv	99
77) 1,2-Dichlorobenzene	17.156	146	2714482	12.782	ppbv	100
78) Hexachloro-1,3-Butadiene	22.648	225	1736651	10.808	ppbv	100
79) Naphthalene	21.397	128	4215333	18.102	ppbv	99
80) Naphthalene,2-methyl-	24.384	142	1352427	23.712	ppbv	99
81) 1,2,4-Trichlorobenzene	21.156	180	2089792	13.739	ppbv	99

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

