

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091423\
 Data File : VL040685.D
 Acq On : 14 Sep 2023 15:06
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/15/2023
 Supervised By : Mahesh Dadoda 09/15/2023

Quant Time: Sep 14 16:30:36 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M

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

QLast Update : Thu Sep 14 15:02:53 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.182	49	1236048	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	3288817	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2811422	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	2154406	9.635	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.722	85	286337	1.075	ppbv	90
3) Chlorodifluoromethane	2.668	51	216461	1.067	ppbv	98
4) Chloromethane	2.806	50	85415	1.079	ppbv	96
5) Vinyl Chloride	2.912	62	87387	1.040	ppbv	89
6) Bromomethane	3.112	94	45309	1.028	ppbv	93
7) Chloroethane	3.189	64	30940	1.009	ppbv	93
8) Dichlorotetrafluoroethane	2.848	85	245058	1.137	ppbv	100
9) Propene	2.684	41	64017	1.018	ppbv	98
10) Heptane	7.571	43	133093m	0.919	ppbv	
11) Trichlorofluoromethane	3.555	101	251977	1.172	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.060	101	183574	1.151	ppbv	100
13) Ethanol	3.243	45	18382	1.047	ppbv	72
14) Bromoethene	3.359	108	74552	1.151	ppbv	97
15) Acetone	3.465	43	178248	1.179	ppbv	99
16) 1,3-Butadiene	2.976	39	76161	1.013	ppbv	95
17) tert-Butyl alcohol	3.877	59	178830	1.115	ppbv	98
18) 1,1-Dichloroethene	3.874	96	78309	1.083	ppbv	87
19) Isopropyl Alcohol	3.575	45	108986	1.137	ppbv #	93
20) Methylene Chloride	3.925	84	96823	1.311	ppbv	97
21) Allyl Chloride	3.989	41	101310	1.013	ppbv	89
22) trans-1,2-Dichloroethene	4.436	96	72690	1.024	ppbv	98
23) Vinyl Acetate	4.620	43	181499m	1.054	ppbv	
24) 1,1-Dichloroethane	4.558	63	166425	1.130	ppbv	98
25) Ethyl Acetate	5.205	43	279692	0.985	ppbv	99
26) Hexane	5.201	57	134612	0.980	ppbv	96
27) Carbon Disulfide	4.118	76	160440	0.981	ppbv #	87
28) Methyl tert-Butyl Ether	4.584	73	111900	1.054	ppbv	94
29) Chloroform	5.266	83	225005	1.035	ppbv	94
30) Cyclohexane	6.594	84	101245m	0.963	ppbv	
31) cis-1,2-Dichloroethene	5.073	61	119056	0.960	ppbv	91
32) 1,1,1-Trichloroethane	5.992	97	222898	1.070	ppbv	97
34) 2-Butanone	4.780	43	179529m	1.082	ppbv	
35) Carbon Tetrachloride	6.488	117	229233	1.114	ppbv	94
36) Benzene	6.362	78	245324	0.938	ppbv	95
37) 1,2-Dichloroethane	5.796	62	171618m	1.088	ppbv	
38) Trichloroethene	7.285	130	97874	0.966	ppbv	96
39) 1,2-Dichloropropane	7.066	63	95104	0.955	ppbv	94
40) 1,4-Dioxane	7.301	88	38014m	1.008	ppbv	
41) Tetrahydrofuran	5.562	42	82988	0.885	ppbv	97
42) Bromodichloromethane	7.243	83	228240	1.039	ppbv	98
43) Methyl Methacrylate	7.471	69	84652m	0.864	ppbv	
44) 2,2,4-Trimethylpentane	7.320	57	392304	0.928	ppbv	97
45) t-1,3-Dichloropropene	8.706	75	59096	0.755	ppbv	89

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Sep 14 15:02:53 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.137	75	75145	0.787	ppbv	93
47) 1,1,2-Trichloroethane	8.893	97	105969	0.942	ppbv	95
48) Dibromochloromethane	9.706	129	166029	0.943	ppbv	96
49) Bromoform	12.401	173	125224	0.888	ppbv	95
50) 4-Methyl-2-Pentanone	8.188	43	214764	0.886	ppbv	97
51) 2-Hexanone	9.558	43	138793m	0.813	ppbv	
52) Tetrachloroethene	10.610	164	83962m	1.025	ppbv	
53) Toluene	9.217	91	247413	0.890	ppbv	97
54) 1,2-Dibromoethane	10.005	107	139490	0.974	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.500	131	142422m	1.095	ppbv	
57) Chlorobenzene	11.520	112	225587	1.040	ppbv	96
58) Ethyl Benzene	12.082	91	322318	0.951	ppbv	98
59) m/p-Xylene	12.368	91	616532m	1.994	ppbv	
60) o-Xylene	13.053	91	290384	0.991	ppbv	98
61) Styrene	12.892	104	107302m	0.835	ppbv	
62) Isopropylbenzene	14.027	105	453295	1.022	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.047	83	235025	1.071	ppbv	95
64) n-propylbenzene	14.918	120	111883m	0.998	ppbv	
65) tert-Butylbenzene	16.085	119	406273	1.057	ppbv	97
66) Benzyl Chloride	16.333	91	41702m	0.863	ppbv	
67) sec-Butylbenzene	16.629	105	592434	1.056	ppbv	98
69) p-Isopropyltoluene	16.989	119	459006m	1.046	ppbv	
70) n-Butylbenzene	17.886	91	505656	1.055	ppbv	97
71) 2-Chlorotoluene	14.799	91	322054	0.978	ppbv	100
72) 4-Ethyltoluene	15.188	105	321074	0.970	ppbv #	97
73) 1,3,5-Trimethylbenzene	15.349	105	295367	0.999	ppbv	99
74) 1,2,4-Trimethylbenzene	16.105	105	377775	1.094	ppbv #	88
75) 1,3-Dichlorobenzene	16.326	146	213176	1.067	ppbv	99
76) 1,4-Dichlorobenzene	16.465	146	207136m	1.061	ppbv	
77) 1,2-Dichlorobenzene	17.146	146	220250m	1.121	ppbv	
78) Hexachloro-1,3-Butadiene	22.622	225	168137m	1.128	ppbv	
79) Naphthalene	21.384	128	223430m	0.979	ppbv	
80) Naphthalene,2-methyl-	24.378	142	33026m	0.503	ppbv	
81) 1,2,4-Trichlorobenzene	21.143	180	145974m	0.972	ppbv	

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

