

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062624\
 Data File : VL041354.D
 Acq On : 26 Jun 2024 10:13
 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 06/27/2024
 Supervised By :Mahesh Dadoda 06/27/2024

Quant Time: Jun 26 10:49:40 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL062624AIR.M

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

QLast Update : Wed Jun 26 09:48:16 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.205	49	1079733	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2931450	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2677200	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.790 95 2003165 9.691 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.900%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	2.739	85	209641	1.216	ppbv	96
3) Chlorodifluoromethane	2.681	51	208960	1.225	ppbv	99
4) Chloromethane	2.819	50	78102	1.216	ppbv	98
5) Vinyl Chloride	2.928	62	78097	1.207	ppbv	100
6) Bromomethane	3.128	94	24835	1.080	ppbv	90
7) Chloroethane	3.202	64	29455	1.322	ppbv	89
8) Dichlorotetrafluoroethane	2.864	85	200171	1.262	ppbv	99
9) Propene	2.703	41	70667	1.163	ppbv	99
10) Heptane	7.594	43	164221	1.140	ppbv	99
11) Trichlorofluoromethane	3.571	101	197150	1.244	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.076	101	141297	1.262	ppbv	98
13) Ethanol	3.269	45	13347m	0.844	ppbv	
14) Bromoethene	3.378	108	52601	1.161	ppbv #	87
15) Acetone	3.488	43	171403	1.390	ppbv	96
16) 1,3-Butadiene	2.993	39	64660	1.043	ppbv #	77
17) tert-Butyl alcohol	3.899	59	114480	1.009	ppbv	96
18) 1,1-Dichloroethene	3.893	96	58863	1.232	ppbv	93
19) Isopropyl Alcohol	3.597	45	84942m	1.097	ppbv	
20) Methylene Chloride	3.944	84	59733	1.333	ppbv	94
21) Allyl Chloride	4.005	41	88770	1.137	ppbv	91
22) trans-1,2-Dichloroethene	4.459	96	57135	1.148	ppbv	93
23) Vinyl Acetate	4.642	43	132191	1.048	ppbv #	97
24) 1,1-Dichloroethane	4.574	63	133991	1.208	ppbv #	96
25) Ethyl Acetate	5.221	43	293468	1.203	ppbv	99
26) Hexane	5.227	57	129091	1.177	ppbv	93
27) Carbon Disulfide	4.137	76	149130	1.228	ppbv #	91
28) Methyl tert-Butyl Ether	4.607	73	92004	1.132	ppbv	98
29) Chloroform	5.288	83	201295	1.196	ppbv	90
30) Cyclohexane	6.613	84	101332	1.140	ppbv	91
31) cis-1,2-Dichloroethene	5.092	61	121085	1.168	ppbv	98
32) 1,1,1-Trichloroethane	6.015	97	189501	1.189	ppbv	99
34) 2-Butanone	4.806	43	169152	1.204	ppbv	98
35) Carbon Tetrachloride	6.507	117	189395	1.137	ppbv	99
36) Benzene	6.381	78	260568	1.147	ppbv	97
37) 1,2-Dichloroethane	5.816	62	150065	1.133	ppbv	98
38) Trichloroethene	7.301	130	105095m	1.141	ppbv	
39) 1,2-Dichloropropane	7.086	63	98476	1.088	ppbv	95
40) 1,4-Dioxane	7.327	88	32637m	0.985	ppbv	
41) Tetrahydrofuran	5.584	42	96506	1.056	ppbv	96
42) Bromodichloromethane	7.259	83	205863	1.082	ppbv	92
43) Methyl Methacrylate	7.494	69	95568m	1.104	ppbv	
44) 2,2,4-Trimethylpentane	7.340	57	449456	1.150	ppbv	100
45) t-1,3-Dichloropropene	8.729	75	55700m	0.953	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.160	75	77498	1.031	ppbv	92
47) 1,1,2-Trichloroethane	8.912	97	106962	1.131	ppbv	94
48) Dibromochloromethane	9.722	129	169856	1.090	ppbv	99
49) Bromoform	12.413	173	136078m	1.084	ppbv	
50) 4-Methyl-2-Pentanone	8.208	43	268205	1.154	ppbv	99
51) 2-Hexanone	9.584	43	187959	1.138	ppbv #	98
52) Tetrachloroethene	10.626	164	93787	1.132	ppbv	94
53) Toluene	9.233	91	286524	1.096	ppbv	98
54) 1,2-Dibromoethane	10.021	107	136878	1.110	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.516	131	135253m	1.194	ppbv	
57) Chlorobenzene	11.539	112	233514	1.174	ppbv #	94
58) Ethyl Benzene	12.102	91	398770	1.162	ppbv	97
59) m/p-Xylene	12.391	91	691650m	2.352	ppbv	
60) o-Xylene	13.073	91	331475	1.183	ppbv	99
61) Styrene	12.912	104	151027	1.099	ppbv	98
62) Isopropylbenzene	14.044	105	512092	1.208	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.063	83	237424m	1.191	ppbv	
64) n-propylbenzene	14.931	120	129653	1.187	ppbv	91
65) tert-Butylbenzene	16.108	119	461952	1.226	ppbv	97
66) Benzyl Chloride	16.349	91	24496m	0.988	ppbv	
67) sec-Butylbenzene	16.654	105	641703	1.205	ppbv	99
69) p-Isopropyltoluene	17.014	119	527960	1.203	ppbv	100
70) n-Butylbenzene	17.902	91	530043m	1.164	ppbv	
71) 2-Chlorotoluene	14.812	91	377532	1.164	ppbv	99
72) 4-Ethyltoluene	15.207	105	377290	1.155	ppbv	99
73) 1,3,5-Trimethylbenzene	15.362	105	329198	1.161	ppbv	92
74) 1,2,4-Trimethylbenzene	16.124	105	372859	1.163	ppbv	93
75) 1,3-Dichlorobenzene	16.346	146	221285	1.176	ppbv	96
76) 1,4-Dichlorobenzene	16.490	146	216216	1.150	ppbv	96
77) 1,2-Dichlorobenzene	17.162	146	223264	1.185	ppbv	97
78) Hexachloro-1,3-Butadiene	22.657	225	171714	1.112	ppbv	98
79) Naphthalene	21.419	128	190823m	0.686	ppbv	
81) 1,2,4-Trichlorobenzene	21.172	180	116921m	0.754	ppbv	

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

