

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051623\
 Data File : VL040433.D
 Acq On : 16 May 2023 10:54
 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 05/17/2023
 Supervised By : Mahesh Dadoda 05/17/2023

Quant Time: May 16 12:45:35 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051623AIR.M

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

QLast Update : Tue May 16 11:16:05 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	1081652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2730067	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2448894	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.786 95 1952598 9.642 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.400%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	2.722	85	242668m	1.244	ppbv	
3) Chlorodifluoromethane	2.664	51	148335	1.049	ppbv	98
4) Chloromethane	2.806	50	91790	1.028	ppbv	100
5) Vinyl Chloride	2.912	62	74113	1.006	ppbv	98
6) Bromomethane	3.111	94	23963	0.987	ppbv	92
7) Chloroethane	3.192	64	26005	0.932	ppbv	98
8) Dichlorotetrafluoroethane	2.851	85	199119	1.045	ppbv	97
9) Propene	2.687	41	55434	0.993	ppbv	96
10) Heptane	7.587	43	122128	0.962	ppbv	99
11) Trichlorofluoromethane	3.558	101	194612	0.986	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.060	101	146209	1.059	ppbv	99
13) Ethanol	3.263	45	4713m	1.011	ppbv	
14) Bromoethene	3.359	108	56174	0.995	ppbv #	94
15) Acetone	3.472	43	137626	0.898	ppbv	92
16) 1,3-Butadiene	2.980	39	60518	0.955	ppbv	90
17) tert-Butyl alcohol	3.883	59	142592	1.014	ppbv	98
18) 1,1-Dichloroethene	3.877	96	62843	1.009	ppbv	92
19) Isopropyl Alcohol	3.587	45	70902m	1.014	ppbv	
20) Methylene Chloride	3.928	84	68327	1.117	ppbv	95
21) Allyl Chloride	3.996	41	85645	0.984	ppbv	92
22) trans-1,2-Dichloroethene	4.446	96	60316	0.969	ppbv	96
23) Vinyl Acetate	4.629	43	40027m	1.026	ppbv	
24) 1,1-Dichloroethane	4.562	63	134842	1.039	ppbv	99
25) Ethyl Acetate	5.211	43	258588	1.003	ppbv	98
26) Hexane	5.214	57	108443	0.998	ppbv	92
27) Carbon Disulfide	4.121	76	130936	0.931	ppbv #	97
28) Methyl tert-Butyl Ether	4.594	73	116450	1.038	ppbv	97
29) Chloroform	5.275	83	200898	1.038	ppbv	97
30) Cyclohexane	6.610	84	81113	0.964	ppbv	89
31) cis-1,2-Dichloroethene	5.079	61	105646	0.981	ppbv	96
32) 1,1,1-Trichloroethane	6.005	97	194555	1.034	ppbv	98
34) 2-Butanone	4.790	43	150633	1.023	ppbv	100
35) Carbon Tetrachloride	6.494	117	191462	0.996	ppbv	95
36) Benzene	6.375	78	220451	0.990	ppbv	97
37) 1,2-Dichloroethane	5.803	62	144867	0.990	ppbv	97
38) Trichloroethene	7.295	130	126022	0.994	ppbv	95
39) 1,2-Dichloropropane	7.076	63	87733	1.001	ppbv	95
40) 1,4-Dioxane	7.320	88	36103m	1.076	ppbv	
41) Tetrahydrofuran	5.578	42	78696m	0.976	ppbv	
42) Bromodichloromethane	7.253	83	193487	0.968	ppbv	99
43) Methyl Methacrylate	7.487	69	76418	0.924	ppbv	93
44) 2,2,4-Trimethylpentane	7.327	57	379587m	1.020	ppbv	
45) t-1,3-Dichloropropene	8.719	75	58440	0.791	ppbv	90

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.150	75	87739	0.853	ppbv	98
47) 1,1,2-Trichloroethane	8.905	97	95459m	0.993	ppbv	
48) Dibromochloromethane	9.719	129	144886	0.936	ppbv	98
49) Bromoform	12.416	173	108742	0.901	ppbv	96
50) 4-Methyl-2-Pentanone	8.198	43	219930	0.985	ppbv	98
51) 2-Hexanone	9.574	43	150170m	0.910	ppbv	
52) Tetrachloroethene	10.619	164	73393m	1.053	ppbv	
53) Toluene	9.230	91	219263	0.929	ppbv	100
54) 1,2-Dibromoethane	10.021	107	92718	0.952	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.516	131	115214	1.031	ppbv #	1
57) Chlorobenzene	11.532	112	206134	1.075	ppbv #	93
58) Ethyl Benzene	12.105	91	311000	1.032	ppbv	99
59) m/p-Xylene	12.384	91	572393m	2.066	ppbv	
60) o-Xylene	13.069	91	275423	1.036	ppbv	100
61) Styrene	12.912	104	120500	0.905	ppbv	96
62) Isopropylbenzene	14.040	105	408617	1.067	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.060	83	98997	1.017	ppbv	97
64) n-propylbenzene	14.931	120	95089	1.009	ppbv	82
65) tert-Butylbenzene	16.104	119	356097	1.057	ppbv	96
66) Benzyl Chloride	16.346	91	20800m	0.997	ppbv	
67) sec-Butylbenzene	16.645	105	519827	1.074	ppbv	99
69) p-Isopropyltoluene	17.008	119	401852	1.064	ppbv	96
70) n-Butylbenzene	17.902	91	450839	1.076	ppbv	97
71) 2-Chlorotoluene	14.815	91	303062	1.031	ppbv	98
72) 4-Ethyltoluene	15.204	105	298244	1.016	ppbv	97
73) 1,3,5-Trimethylbenzene	15.365	105	280182	1.033	ppbv	89
74) 1,2,4-Trimethylbenzene	16.117	105	341599	1.102	ppbv	94
75) 1,3-Dichlorobenzene	16.346	146	182487	1.075	ppbv	97
76) 1,4-Dichlorobenzene	16.487	146	171355	1.022	ppbv	94
77) 1,2-Dichlorobenzene	17.159	146	176452	1.051	ppbv	94
78) Hexachloro-1,3-Butadiene	22.651	225	137187	1.020	ppbv	99
79) Naphthalene	21.410	128	193972m	0.927	ppbv	
80) Naphthalene,2-methyl-	24.394	142	27272	0.438	ppbv	91
81) 1,2,4-Trichlorobenzene	21.159	180	114326m	0.889	ppbv	

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

