

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
 Data File : VL040023.D
 Acq On : 19 Dec 2022 11:29
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2022
 Supervised By : Mahesh Dadoda 12/20/2022

Quant Time: Dec 20 04:22:41 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 12 2022

QLast Update : Tue Dec 20 04:20:10 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.173	49	985788	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.636	114	2930157	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2576617	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.764 95 2012448 10.225 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.713	85	127820	0.693	ppbv	100
3) Chlorodifluoromethane	2.655	51	82509	0.567	ppbv	99
4) Chloromethane	2.793	50	49339	0.541	ppbv	91
5) Vinyl Chloride	2.899	62	40730	0.552	ppbv #	88
6) Bromomethane	3.099	94	14767	0.545	ppbv	90
7) Chloroethane	3.179	64	15760	0.567	ppbv	96
8) Dichlorotetrafluoroethane	2.838	85	110228	0.568	ppbv	98
9) Propene	2.674	41	33642	0.545	ppbv	88
10) Heptane	7.565	43	78476m	0.522	ppbv	
11) Trichlorofluoromethane	3.546	101	109425	0.546	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.047	101	84112	0.554	ppbv	100
13) Ethanol	3.247	45	3340m	0.641	ppbv	
14) Bromoethene	3.346	108	28004	0.490	ppbv #	90
15) Acetone	3.462	43	84581	0.555	ppbv	90
16) 1,3-Butadiene	2.967	39	32505	0.490	ppbv	90
17) tert-Butyl alcohol	3.877	59	87658m	0.587	ppbv	
18) 1,1-Dichloroethene	3.861	96	35783	0.541	ppbv	98
19) Isopropyl Alcohol	3.578	45	40026	0.533	ppbv #	89
20) Methylene Chloride	3.915	84	42003	0.648	ppbv #	85
21) Allyl Chloride	3.976	41	46735	0.510	ppbv	99
22) trans-1,2-Dichloroethene	4.430	96	32114	0.487	ppbv	93
23) Vinyl Acetate	4.613	43	24956m	0.516	ppbv	
24) 1,1-Dichloroethane	4.546	63	77591	0.547	ppbv #	98
25) Ethyl Acetate	5.192	43	144619	0.548	ppbv	98
26) Hexane	5.195	57	60298	0.543	ppbv	93
27) Carbon Disulfide	4.108	76	59880	0.428	ppbv #	91
28) Methyl tert-Butyl Ether	4.578	73	71753	0.548	ppbv	99
29) Chloroform	5.256	83	95203	0.562	ppbv	88
30) Cyclohexane	6.584	84	48570	0.494	ppbv	91
31) cis-1,2-Dichloroethene	5.060	61	56368	0.533	ppbv	90
32) 1,1,1-Trichloroethane	5.983	97	98689	0.543	ppbv	97
34) 2-Butanone	4.784	43	84212m	0.544	ppbv	
35) Carbon Tetrachloride	6.475	117	93388	0.512	ppbv	96
36) Benzene	6.353	78	131632	0.503	ppbv	99
37) 1,2-Dichloroethane	5.787	62	75605	0.492	ppbv #	96
38) Trichloroethene	7.275	130	71569	0.529	ppbv	92
39) 1,2-Dichloropropane	7.057	63	50087	0.511	ppbv #	85
40) 1,4-Dioxane	7.314	88	23586m	0.530	ppbv	
41) Tetrahydrofuran	5.562	42	51104m	0.532	ppbv	
42) Bromodichloromethane	7.227	83	101238m	0.482	ppbv	
43) Methyl Methacrylate	7.465	69	46806	0.477	ppbv	93
44) 2,2,4-Trimethylpentane	7.308	57	225468	0.523	ppbv	98
45) t-1,3-Dichloropropene	8.693	75	33821m	0.408	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.124	75	48397	0.413	ppbv	98
47) 1,1,2-Trichloroethane	8.880	97	55342m	0.516	ppbv	
48) Dibromochloromethane	9.693	129	70827	0.433	ppbv	99
49) Bromoform	12.388	173	50634m	0.406	ppbv	
50) 4-Methyl-2-Pentanone	8.182	43	124920	0.481	ppbv	100
51) 2-Hexanone	9.561	43	95988m	0.477	ppbv	
52) Tetrachloroethene	10.603	164	44530	0.497	ppbv	88
53) Toluene	9.208	91	140374	0.484	ppbv	99
54) 1,2-Dibromoethane	9.996	107	58612	0.510	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.500	131	61278m	0.515	ppbv	
57) Chlorobenzene	11.510	112	118779	0.543	ppbv #	95
58) Ethyl Benzene	12.073	91	187030m	0.511	ppbv	
59) m/p-Xylene	12.352	91	331203m	1.039	ppbv	
60) o-Xylene	13.040	91	155914m	0.511	ppbv	
61) Styrene	12.886	104	73990m	0.454	ppbv	
62) Isopropylbenzene	14.018	105	237452	0.539	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.037	83	66110m	0.588	ppbv	
64) n-propylbenzene	14.905	120	57165m	0.515	ppbv	
65) tert-Butylbenzene	16.082	119	202196m	0.529	ppbv	
66) Benzyl Chloride	16.314	91	10240m	0.515	ppbv	
67) sec-Butylbenzene	16.625	105	281762	0.525	ppbv	98
69) p-Isopropyltoluene	16.982	119	216183	0.504	ppbv	97
70) n-Butylbenzene	17.876	91	234342m	0.523	ppbv	
71) 2-Chlorotoluene	14.790	91	175146	0.521	ppbv	97
72) 4-Ethyltoluene	15.185	105	169967	0.501	ppbv #	97
73) 1,3,5-Trimethylbenzene	15.336	105	157778m	0.514	ppbv	
74) 1,2,4-Trimethylbenzene	16.098	105	181408	0.538	ppbv #	89
75) 1,3-Dichlorobenzene	16.320	146	95724m	0.520	ppbv	
76) 1,4-Dichlorobenzene	16.458	146	93753m	0.516	ppbv	
77) 1,2-Dichlorobenzene	17.134	146	96144m	0.543	ppbv	
78) Hexachloro-1,3-Butadiene	22.619	225	71439m	0.583	ppbv	
79) Naphthalene	21.381	128	95417m	0.476	ppbv	
80) Naphthalene,2-methyl-	24.381	142	28477m	0.495	ppbv	
81) 1,2,4-Trichlorobenzene	21.140	180	58073m	0.489	ppbv	

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

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