

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021523\
 Data File : VL040172.D
 Acq On : 15 Feb 2023 12:23
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

Quant Time: Feb 15 12:53:15 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M

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

QLast Update : Wed Feb 15 11:34:13 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.182	49	973701	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2578544	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2319012	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1902007	9.869	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.716	85	103502	0.606	ppbv	100
3) Chlorodifluoromethane	2.658	51	63015	0.540	ppbv	96
4) Chloromethane	2.803	50	36058	0.500	ppbv #	87
5) Vinyl Chloride	2.909	62	33938	0.555	ppbv	91
6) Bromomethane	3.108	94	11038	0.494	ppbv #	74
7) Chloroethane	3.182	64	11295	0.483	ppbv #	81
8) Dichlorotetrafluoroethane	2.845	85	83073	0.521	ppbv	100
9) Propene	2.681	41	25914	0.534	ppbv	95
10) Heptane	7.578	43	53792m	0.481	ppbv	
11) Trichlorofluoromethane	3.552	101	82824	0.486	ppbv	95
12) 1,1,2-Trichlorotrifluo...	4.057	101	61194	0.478	ppbv	95
13) Ethanol	3.247	45	2982m	0.668	ppbv	
14) Bromoethene	3.356	108	24528	0.516	ppbv	99
15) Acetone	3.468	43	66003	0.565	ppbv	97
16) 1,3-Butadiene	2.973	39	27672	0.508	ppbv	94
17) tert-Butyl alcohol	3.883	59	63638m	0.585	ppbv	
18) 1,1-Dichloroethene	3.870	96	27901	0.501	ppbv	97
19) Isopropyl Alcohol	3.578	45	33824m	0.592	ppbv	
20) Methylene Chloride	3.925	84	39409	0.765	ppbv	87
21) Allyl Chloride	3.986	41	34941	0.466	ppbv	92
22) trans-1,2-Dichloroethene	4.439	96	26376	0.464	ppbv	89
23) Vinyl Acetate	4.620	43	17516m	0.463	ppbv	
24) 1,1-Dichloroethane	4.552	63	55007	0.480	ppbv #	96
25) Ethyl Acetate	5.205	43	113921	0.554	ppbv	99
26) Hexane	5.208	57	48668	0.541	ppbv	96
27) Carbon Disulfide	4.118	76	52623	0.451	ppbv #	90
28) Methyl tert-Butyl Ether	4.591	73	50860	0.502	ppbv	100
29) Chloroform	5.263	83	85072	0.591	ppbv	93
30) Cyclohexane	6.600	84	40387m	0.564	ppbv	
31) cis-1,2-Dichloroethene	5.070	61	46524m	0.534	ppbv	
32) 1,1,1-Trichloroethane	5.996	97	77698	0.531	ppbv	98
34) 2-Butanone	4.787	43	61077m	0.501	ppbv	
35) Carbon Tetrachloride	6.488	117	76338	0.524	ppbv	87
36) Benzene	6.365	78	100994	0.529	ppbv	99
37) 1,2-Dichloroethane	5.800	62	60225	0.491	ppbv	98
38) Trichloroethene	7.285	130	52375	0.484	ppbv	93
39) 1,2-Dichloropropane	7.073	63	39201m	0.525	ppbv	
40) 1,4-Dioxane	7.317	88	16078m	0.543	ppbv	
41) Tetrahydrofuran	5.568	42	39079m	0.555	ppbv	
42) Bromodichloromethane	7.246	83	77833	0.470	ppbv	98
43) Methyl Methacrylate	7.484	69	33530m	0.479	ppbv	
44) 2,2,4-Trimethylpentane	7.324	57	159922	0.504	ppbv	97
45) t-1,3-Dichloropropene	8.706	75	25977m	0.416	ppbv	

02/16/2023
 Supervised By : Mahesh
 adoda

02/18/2023

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QLast Update : Wed Feb 15 11:34:13 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	8.147	75	37246m	0.437	ppbv		02/16/2023
47) 1,1,2-Trichloroethane	8.899	97	42377m	0.539	ppbv		Supervised By : Mahesh Dadoda
48) Dibromochloromethane	9.709	129	57184	0.453	ppbv	97	
49) Bromoform	12.407	173	40969m	0.421	ppbv		
50) 4-Methyl-2-Pentanone	8.201	43	92970	0.485	ppbv	99	
51) 2-Hexanone	9.574	43	65604m	0.451	ppbv		
52) Tetrachloroethene	10.613	164	31671m	0.507	ppbv		02/18/2023
53) Toluene	9.217	91	97217m	0.478	ppbv		
54) 1,2-Dibromoethane	10.015	107	42062m	0.511	ppbv		
56) 1,1,1,2-Tetrachloroethane	11.510	131	48159	0.534	ppbv #	1	
57) Chlorobenzene	11.526	112	88386m	0.559	ppbv		
58) Ethyl Benzene	12.095	91	129129	0.499	ppbv	89	
59) m/p-Xylene	12.349	91	233562m	1.004	ppbv		
60) o-Xylene	13.063	91	111477	0.505	ppbv	99	
61) Styrene	12.905	104	50965	0.443	ppbv	98	
62) Isopropylbenzene	14.037	105	166066	0.523	ppbv	98	
63) 1,1,2,2-Tetrachloroethane	13.050	83	47121m	0.588	ppbv		
64) n-propylbenzene	14.921	120	34250	0.434	ppbv #	47	
65) tert-Butylbenzene	16.095	119	139638	0.513	ppbv	92	
66) Benzyl Chloride	16.339	91	8299m	0.446	ppbv		
67) sec-Butylbenzene	16.642	105	206465	0.535	ppbv	99	
69) p-Isopropyltoluene	16.998	119	156084	0.515	ppbv	97	
70) n-Butylbenzene	17.896	91	169685	0.519	ppbv	99	
71) 2-Chlorotoluene	14.802	91	123826	0.507	ppbv	99	
72) 4-Ethyltoluene	15.204	105	119656	0.488	ppbv #	96	
73) 1,3,5-Trimethylbenzene	15.359	105	110754	0.502	ppbv	93	
74) 1,2,4-Trimethylbenzene	16.114	105	127634	0.522	ppbv	92	
75) 1,3-Dichlorobenzene	16.339	146	71872m	0.529	ppbv		
76) 1,4-Dichlorobenzene	16.474	146	66264	0.496	ppbv	90	
77) 1,2-Dichlorobenzene	17.156	146	71815m	0.553	ppbv		
78) Hexachloro-1,3-Butadiene	22.651	225	54292m	0.571	ppbv		
79) Naphthalene	21.407	128	61603m	0.440	ppbv		
80) Naphthalene,2-methyl-	24.397	142	10275	0.218	ppbv	92	
81) 1,2,4-Trichlorobenzene	21.156	180	40685m	0.471	ppbv		

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

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
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Response via : Initial Calibration

