

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110121\
 Data File : VL037935.D
 Acq On : 1 Nov 2021 10:02
 Operator : SY/AP
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/05/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Quant Time: Nov 01 11:37:00 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110121AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Nov 01 11:37:00 2021

QLast Update : Mon Nov 01 11:08:47 2021

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.661	49	1652331	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.169	114	4782824	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.079	117	4471630	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.407	95	3048172	9.748	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.054	85	434925	1.648	ppbv	94
3) Chlorodifluoromethane	2.993	51	649669	2.046	ppbv	100
4) Chloromethane	3.144	50	236981	2.038	ppbv	98
5) Vinyl Chloride	3.263	62	229634	2.154	ppbv	99
6) Bromomethane	3.475	94	123755	2.146	ppbv	92
7) Chloroethane	3.559	64	84478m	2.155	ppbv	
8) Dichlorotetrafluoroethane	3.192	85	542612	2.080	ppbv	100
9) Propene	3.012	41	233132m	1.996	ppbv	
10) Heptane	8.115	43	548426	2.067	ppbv	98
11) Trichlorofluoromethane	3.954	101	479256	2.035	ppbv	95
12) 1,1,2-Trichlorotrifluoro...	4.488	101	387574	2.172	ppbv	100
13) Ethanol	3.620	45	26122m	2.734	ppbv	
14) Bromoethene	3.742	108	158102	2.015	ppbv	97
15) Acetone	3.858	43	293715	1.980	ppbv	98
16) 1,3-Butadiene	3.330	39	217018	2.011	ppbv	95
17) tert-Butyl alcohol	4.298	59	294240m	1.926	ppbv	
18) 1,1-Dichloroethene	4.292	96	173171	2.136	ppbv	94
19) Isopropyl Alcohol	3.980	45	185208m	2.007	ppbv	
20) Methylene Chloride	4.346	84	161258m	2.152	ppbv	
21) Allyl Chloride	4.411	41	277876m	2.115	ppbv	
22) trans-1,2-Dichloroethene	4.883	96	164471	2.018	ppbv	94
23) Vinyl Acetate	5.070	43	445008m	2.002	ppbv	
24) 1,1-Dichloroethane	5.009	63	346676	2.142	ppbv	98
25) Ethyl Acetate	5.677	43	848614	2.039	ppbv	99
26) Hexane	5.687	57	407846	1.990	ppbv	97
27) Carbon Disulfide	4.549	76	400628	2.206	ppbv	96
28) Methyl tert-Butyl Ether	5.038	73	329623	1.932	ppbv	96
29) Chloroform	5.745	83	595467	2.033	ppbv	93
30) Cyclohexane	7.128	84	325411	1.872	ppbv	86
31) cis-1,2-Dichloroethene	5.546	61	355602	1.911	ppbv	98
32) 1,1,1-Trichloroethane	6.510	97	544892	1.962	ppbv	98
34) 2-Butanone	5.247	43	372887	1.931	ppbv	99
35) Carbon Tetrachloride	7.018	117	574565m	2.115	ppbv	
36) Benzene	6.890	78	844069	2.066	ppbv	97
37) 1,2-Dichloroethane	6.304	62	385539	2.004	ppbv	98
38) Trichloroethene	7.829	130	338365m	2.097	ppbv	
39) 1,2-Dichloropropane	7.610	63	318261	2.071	ppbv	96
40) 1,4-Dioxane	7.848	88	80738m	2.100	ppbv	
41) Tetrahydrofuran	6.060	42	194474m	2.057	ppbv	
42) Bromodichloromethane	7.787	83	590221	2.089	ppbv	94
43) Methyl Methacrylate	8.009	69	277362m	2.079	ppbv	
44) 2,2,4-Trimethylpentane	7.864	57	1485861	2.165	ppbv	99
45) t-1,3-Dichloropropene	9.275	75	183581	2.000	ppbv	98

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Response via : Initial Calibration

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46) cis-1,3-Dichloropropene	8.697	75	247469	1.945	ppbv	98
47) 1,1,2-Trichloroethane	9.468	97	342496	2.050	ppbv	97
48) Dibromochloromethane	10.298	129	483077	2.029	ppbv	98
49) Bromoform	13.034	173	401441	2.203	ppbv	98
50) 4-Methyl-2-Pentanone	8.748	43	510325m	2.030	ppbv	
51) 2-Hexanone	10.144	43	213329m	1.901	ppbv	
52) Tetrachloroethene	11.217	164	302980	1.906	ppbv	95
53) Toluene	9.796	91	929595	2.053	ppbv	99
54) 1,2-Dibromoethane	10.603	107	455471	2.019	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.118	131	371355	2.006	ppbv #	1
57) Chlorobenzene	12.140	112	736477	2.008	ppbv	96
58) Ethyl Benzene	12.703	91	1196467	1.993	ppbv	96
59) m/p-Xylene	12.986	91	2152020m	4.175	ppbv	
60) o-Xylene	13.687	91	978751	1.981	ppbv	99
61) Styrene	13.520	104	460229	1.926	ppbv	99
62) Isopropylbenzene	14.658	105	1401417	2.034	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.668	83	757142	1.986	ppbv	98
64) n-propylbenzene	15.552	120	359227	2.091	ppbv	88
65) tert-Butylbenzene	16.732	119	1299942	2.144	ppbv	99
66) Benzyl Chloride	16.976	91	57999m	1.938	ppbv	
67) sec-Butylbenzene	17.282	105	1815215	2.189	ppbv	98
69) p-Isopropyltoluene	17.638	119	1440973	2.149	ppbv	99
70) n-Butylbenzene	18.539	91	1361382	2.138	ppbv	98
71) 2-Chlorotoluene	15.439	91	988550	2.032	ppbv	99
72) 4-Ethyltoluene	15.828	105	1174818	2.095	ppbv	98
73) 1,3,5-Trimethylbenzene	15.986	105	1076179	2.112	ppbv	98
74) 1,2,4-Trimethylbenzene	16.748	105	1150604	2.151	ppbv #	87
75) 1,3-Dichlorobenzene	16.983	146	691153	2.085	ppbv	100
76) 1,4-Dichlorobenzene	17.124	146	668927m	2.116	ppbv	
77) 1,2-Dichlorobenzene	17.806	146	647820	2.035	ppbv	98
78) Hexachloro-1,3-Butadiene	23.362	225	569944m	2.192	ppbv	
79) Naphthalene	22.185	128	629025	1.920	ppbv	97
80) Naphthalene,2-methyl-	24.969	142	51411	0.584	ppbv	94
81) 1,2,4-Trichlorobenzene	21.915	180	416867	1.989	ppbv	98

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

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