

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100421\
 Data File : VL037759.D
 Acq On : 4 Oct 2021 12:18
 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 :Mahesh Dadoda 10/05/2021
 Supervised By :Semsettin Yesilyurt 10/05/2021

Quant Time: Oct 04 12:53:03 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 12:52:19 2021

QLast Update : Mon Oct 04 12:52:19 2021

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.661	49	1486157	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.173	114	4399264	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.082	117	4009519	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.413 95 2682997 9.26 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.047	85	391068m	1.45	ppbv	
3) Chlorodifluoromethane	2.989	51	597383	2.13	ppbv	99
4) Chloromethane	3.141	50	215535	2.08	ppbv	97
5) Vinyl Chloride	3.260	62	212062	2.18	ppbv	97
6) Bromomethane	3.472	94	102844	1.82	ppbv	94
7) Chloroethane	3.555	64	75647	2.08	ppbv #	80
8) Dichlorotetrafluoroethane	3.189	85	463937	2.00	ppbv	97
9) Propene	3.009	41	212359	2.15	ppbv	98
10) Heptane	8.118	43	498076	2.16	ppbv	97
11) Trichlorofluoromethane	3.951	101	423491	1.96	ppbv	90
12) 1,1,2-Trichlorotrifluoro...	4.481	101	336336m	2.11	ppbv	
13) Ethanol	3.616	45	17983	1.86	ppbv	78
14) Bromoethene	3.739	108	143320	1.98	ppbv	97
15) Acetone	3.854	43	278249m	1.80	ppbv	
16) 1,3-Butadiene	3.324	39	205009	2.12	ppbv	100
17) tert-Butyl alcohol	4.295	59	290281m	2.22	ppbv	
18) 1,1-Dichloroethene	4.288	96	150680	2.03	ppbv	93
19) Isopropyl Alcohol	3.970	45	181875m	2.16	ppbv	
20) Methylene Chloride	4.343	84	149982	2.03	ppbv	89
21) Allyl Chloride	4.411	41	247106m	2.14	ppbv	
22) trans-1,2-Dichloroethene	4.887	96	137440	1.84	ppbv	99
23) Vinyl Acetate	5.070	43	441228	2.06	ppbv	98
24) 1,1-Dichloroethane	5.009	63	312341	2.04	ppbv	97
25) Ethyl Acetate	5.681	43	785584	2.10	ppbv	98
26) Hexane	5.687	57	386298	2.17	ppbv	98
27) Carbon Disulfide	4.549	76	339323	2.09	ppbv	98
28) Methyl tert-Butyl Ether	5.038	73	331790	2.12	ppbv	99
29) Chloroform	5.748	83	541872	2.09	ppbv	96
30) Cyclohexane	7.124	84	336517m	2.21	ppbv	
31) cis-1,2-Dichloroethene	5.542	61	356060m	2.21	ppbv	
32) 1,1,1-Trichloroethane	6.504	97	523130m	2.17	ppbv	
34) 2-Butanone	5.250	43	381378m	2.13	ppbv	
35) Carbon Tetrachloride	7.018	117	512141	2.06	ppbv	96
36) Benzene	6.886	78	781138	2.13	ppbv	97
37) 1,2-Dichloroethane	6.301	62	367277	2.04	ppbv	99
38) Trichloroethene	7.835	130	308273	2.01	ppbv	96
39) 1,2-Dichloropropane	7.607	63	285242	2.03	ppbv	95
40) 1,4-Dioxane	7.845	88	82515m	2.41	ppbv	
41) Tetrahydrofuran	6.063	42	192121m	2.29	ppbv	
42) Bromodichloromethane	7.787	83	544973	2.11	ppbv	99
43) Methyl Methacrylate	8.012	69	259793	2.13	ppbv	100
44) 2,2,4-Trimethylpentane	7.867	57	1349693	2.19	ppbv	99
45) t-1,3-Dichloropropene	9.275	75	166045	1.73	ppbv	96

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46) cis-1,3-Dichloropropene	8.700	75	238015	1.84	ppbv	96
47) 1,1,2-Trichloroethane	9.472	97	310636	2.00	ppbv	98
48) Dibromochloromethane	10.304	129	463975	2.14	ppbv	100
49) Bromoform	13.034	173	353933	2.04	ppbv	97
50) 4-Methyl-2-Pentanone	8.751	43	479915	2.11	ppbv	100
51) 2-Hexanone	10.147	43	205602	2.05	ppbv #	97
52) Tetrachloroethene	11.221	164	298915	2.12	ppbv	96
53) Toluene	9.803	91	882949	2.17	ppbv	99
54) 1,2-Dibromoethane	10.607	107	432145	2.03	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.121	131	341808	2.06	ppbv #	1
57) Chlorobenzene	12.140	112	680276	2.04	ppbv	95
58) Ethyl Benzene	12.709	91	1148730	2.16	ppbv	99
59) m/p-Xylene	12.992	91	1977702m	4.26	ppbv	
60) o-Xylene	13.687	91	928899	2.10	ppbv	99
61) Styrene	13.526	104	445624	2.05	ppbv	99
62) Isopropylbenzene	14.664	105	1310189	2.12	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.677	83	680067	1.97	ppbv	98
64) n-propylbenzene	15.555	120	326551	2.05	ppbv	92
65) tert-Butylbenzene	16.741	119	1178442	2.12	ppbv	99
66) Benzyl Chloride	16.979	91	47053m	1.55	ppbv	
67) sec-Butylbenzene	17.294	105	1614404	2.14	ppbv	98
69) p-Isopropyltoluene	17.648	119	1322652	2.15	ppbv	99
70) n-Butylbenzene	18.548	91	1256579	2.15	ppbv	99
71) 2-Chlorotoluene	15.449	91	909133	2.06	ppbv	100
72) 4-Ethyltoluene	15.838	105	1076311	2.12	ppbv	99
73) 1,3,5-Trimethylbenzene	15.992	105	961295	2.04	ppbv	96
74) 1,2,4-Trimethylbenzene	16.757	105	1049958	2.11	ppbv #	93
75) 1,3-Dichlorobenzene	16.989	146	606471	1.96	ppbv	98
76) 1,4-Dichlorobenzene	17.137	146	572932	1.88	ppbv	97
77) 1,2-Dichlorobenzene	17.815	146	592916	2.02	ppbv	99
78) Hexachloro-1,3-Butadiene	23.368	225	529840m	2.15	ppbv	
79) Naphthalene	22.195	128	700533m	2.29	ppbv	
80) Naphthalene,2-methyl-	24.973	142	256671	3.68	ppbv	95
81) 1,2,4-Trichlorobenzene	21.921	180	421787	2.15	ppbv	98

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

Manual Integrations

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