

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038047.D
 Acq On : 18 Nov 2021 9:27
 Operator : SY/AP
 Sample : VSTDICC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Quant Time: Nov 18 10:41:50 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 10:39:10 2021
 Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 11/25/2021
 Supervised By : Mahesh Dadoda 11/29/2021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	942219	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2794807	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2575159	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1801247	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	287047	1.498	ppbv	95
3) Chlorodifluoromethane	2.99	51	416047	1.699	ppbv	98
4) Chloromethane	3.15	50	145532	1.670	ppbv	100
5) Vinyl Chloride	3.26	62	138228	1.652	ppbv	97
6) Bromomethane	3.48	94	70751	1.582	ppbv	94
7) Chloroethane	3.56	64	49745m	1.691	ppbv	
8) Dichlorotetrafluoroethane	3.19	85	328912	1.657	ppbv	100
9) Propene	3.02	41	153616	1.663	ppbv	98
10) Heptane	8.12	43	389693	1.714	ppbv	99
11) Trichlorofluoromethane	3.95	101	323158m	1.706	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.49	101	222512	1.516	ppbv	100
13) Ethanol	3.61	45	14739m	1.800	ppbv	
14) Bromoethene	3.74	108	99199m	1.616	ppbv	
15) Acetone	3.86	43	176203m	1.591	ppbv	
16) 1,3-Butadiene	3.33	39	132385	1.614	ppbv	99
17) tert-Butyl alcohol	4.29	59	207218m	1.393	ppbv	
18) 1,1-Dichloroethene	4.29	96	99766	1.473	ppbv	92
19) Isopropyl Alcohol	3.98	45	119708m	1.476	ppbv	
20) Methylene Chloride	4.35	84	97389m	1.499	ppbv	
21) Allyl Chloride	4.41	41	154883	1.397	ppbv	97
22) trans-1,2-Dichloroethene	4.88	96	98781	1.445	ppbv	99
23) Vinyl Acetate	5.07	43	232451	1.267	ppbv	98
24) 1,1-Dichloroethane	5.01	63	201619	1.409	ppbv	99
25) Ethyl Acetate	5.68	43	586757	2.252	ppbv	100
26) Hexane	5.69	57	280779	2.145	ppbv	99
27) Carbon Disulfide	4.55	76	243247	1.417	ppbv #	91
28) Methyl tert-Butyl Ether	5.04	73	237832	1.417	ppbv	99
29) Chloroform	5.75	83	416332	2.111	ppbv	99
30) Cyclohexane	7.12	84	250434	1.699	ppbv	90
31) cis-1,2-Dichloroethene	5.55	61	265695	2.451	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	416237	1.664	ppbv	99
34) 2-Butanone	5.25	43	239770	2.601	ppbv	98
35) Carbon Tetrachloride	7.01	117	424824	2.199	ppbv	94
36) Benzene	6.89	78	596276	2.243	ppbv	99
37) 1,2-Dichloroethane	6.30	62	287309	2.328	ppbv	100
38) Trichloroethene	7.83	130	216465	2.004	ppbv	98
39) 1,2-Dichloropropane	7.61	63	226433	2.203	ppbv	94
40) 1,4-Dioxane	7.85	88	57986	2.188	ppbv #	1
41) Tetrahydrofuran	6.06	42	148337m	2.243	ppbv	
42) Bromodichloromethane	7.79	83	443963	2.285	ppbv	99
43) Methyl Methacrylate	8.01	69	202220	2.132	ppbv	96

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44) 2,2,4-Trimethylpentane	7.87	57	1038278	2.273	ppbv	98
45) t-1,3-Dichloropropene	9.27	75	158433	2.017	ppbv	96
46) cis-1,3-Dichloropropene	8.70	75	221481	2.158	ppbv	97
47) 1,1,2-Trichloroethane	9.46	97	240912	2.308	ppbv	98
48) Dibromochloromethane	10.30	129	377266	2.223	ppbv	99
49) Bromoform	13.03	173	279105	2.131	ppbv	97
50) 4-Methyl-2-Pentanone	8.75	43	360959	2.172	ppbv	95
51) 2-Hexanone	10.14	43	173891m	2.240	ppbv	
52) Tetrachloroethene	11.21	164	211602	2.108	ppbv	99
53) Toluene	9.80	91	698655	2.247	ppbv	99
54) 1,2-Dibromoethane	10.60	107	339012	2.318	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.12	131	259575	2.309	ppbv #	1
57) Chlorobenzene	12.14	112	497733	2.357	ppbv	98
58) Ethyl Benzene	12.70	91	924494	2.364	ppbv	98
59) m/p-Xylene	12.99	91	1560839m	4.802	ppbv	
60) o-Xylene	13.68	91	717068	2.377	ppbv	99
61) Styrene	13.52	104	381649	2.269	ppbv	98
62) Isopropylbenzene	14.66	105	1024588	2.349	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	518972	2.301	ppbv	100
64) n-propylbenzene	15.55	120	265602	2.389	ppbv	94
65) tert-Butylbenzene	16.73	119	926963	2.422	ppbv	98
66) Benzyl Chloride	16.98	91	44833m	1.677	ppbv	
67) sec-Butylbenzene	17.28	105	1304730	2.468	ppbv	99
69) p-Isopropyltoluene	17.64	119	1033039	2.424	ppbv	100
70) n-Butylbenzene	18.54	91	981117	2.511	ppbv	100
71) 2-Chlorotoluene	15.44	91	752342	2.410	ppbv	100
72) 4-Ethyltoluene	15.83	105	848840	2.360	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	781280	2.375	ppbv	96
74) 1,2,4-Trimethylbenzene	16.75	105	829116	2.503	ppbv	98
75) 1,3-Dichlorobenzene	16.99	146	442706	2.422	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	452367m	2.415	ppbv	
77) 1,2-Dichlorobenzene	17.80	146	434265m	2.477	ppbv	
78) Hexachloro-1,3-Butadiene	23.37	225	277153	2.437	ppbv	99
79) Naphthalene	22.18	128	435556	2.397	ppbv	98
80) Naphthalene, 2-methyl-	24.97	142	93864	2.736	ppbv	94
81) 1,2,4-Trichlorobenzene	21.91	180	247729	2.411	ppbv	98

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

