

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080621\
 Data File : VL037373.D
 Acq On : 7 Aug 2021 10:36
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/10/2021 6:11:01 PM

Quant Time: Aug 09 02:09:41 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 0
 QLast Update : Fri Aug 06 17:52:04 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	861513	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2845485	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2533598m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1724596	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1270922	6.511	ppbv	100
3) Chlorodifluoromethane	2.99	51	1818892	10.587	ppbv	99
4) Chloromethane	3.14	50	641383	10.922	ppbv	97
5) Vinyl Chloride	3.25	62	708077	9.986	ppbv	99
6) Bromomethane	3.47	94	445240	12.589	ppbv	95
7) Chloroethane	3.55	64	257950	10.858	ppbv	96
8) Dichlorotetrafluoroethane	3.18	85	1747715	10.430	ppbv	98
9) Propene	3.01	41	601651	10.434	ppbv	100
10) Heptane	8.11	43	1517393	11.323	ppbv	99
11) Trichlorofluoromethane	3.94	101	1750945	10.462	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1306515	10.500	ppbv	100
13) Ethanol	3.61	45	81816m	7.693	ppbv	
14) Bromoethene	3.74	108	592111	11.184	ppbv	99
15) Acetone	3.84	43	868261	9.671	ppbv	99
16) 1,3-Butadiene	3.32	39	645107	10.690	ppbv	100
17) tert-Butyl alcohol	4.28	59	1092172	11.429	ppbv	99
18) 1,1-Dichloroethene	4.28	96	607187	11.215	ppbv	99
19) Isopropyl Alcohol	3.96	45	605338	11.140	ppbv	# 98
20) Methylene Chloride	4.34	84	522464	6.949	ppbv	98
21) Allyl Chloride	4.41	41	778418	10.486	ppbv	96
22) trans-1,2-Dichloroethene	4.88	96	588659	11.170	ppbv	98
23) Vinyl Acetate	5.07	43	1616511	12.974	ppbv	100
24) 1,1-Dichloroethane	5.01	63	1302483	12.147	ppbv	99
25) Ethyl Acetate	5.67	43	2395201	10.786	ppbv	99
26) Hexane	5.68	57	1208034	9.627	ppbv	99
27) Carbon Disulfide	4.55	76	1307040	11.998	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1485559	11.887	ppbv	100
29) Chloroform	5.75	83	1867348	11.093	ppbv	98
30) Cyclohexane	7.12	84	1068433	10.918	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1167625	11.789	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	1881983	10.545	ppbv	99
34) 2-Butanone	5.24	43	1084448	11.351	ppbv	99
35) Carbon Tetrachloride	7.01	117	2025519	11.375	ppbv	99
36) Benzene	6.88	78	2550627	11.695	ppbv	98
37) 1,2-Dichloroethane	6.30	62	1312283	11.506	ppbv	99
38) Trichloroethene	7.83	130	1116527	10.449	ppbv	98
39) 1,2-Dichloropropane	7.61	63	937869	11.802	ppbv	98
40) 1,4-Dioxane	7.83	88	240877	10.325	ppbv	# 100
41) Tetrahydrofuran	6.04	42	548434	11.669	ppbv	99
42) Bromodichloromethane	7.78	83	1951265	11.900	ppbv	99
43) Methyl Methacrylate	8.01	69	911791	12.848	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.86	57	4088589	11.211	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	846552	18.396	ppbv	100
46) cis-1,3-Dichloropropene	8.70	75	1108725	16.930	ppbv	98
47) 1,1,2-Trichloroethane	9.47	97	1054313	11.485	ppbv	96
48) Dibromochloromethane	10.29	129	1773630	12.511	ppbv	99
49) Bromoform	13.03	173	1295198	12.486	ppbv	94
50) 4-Methyl-2-Pentanone	8.74	43	1552130	11.846	ppbv	100
51) 2-Hexanone	10.13	43	743591	11.326	ppbv #	100
52) Tetrachloroethene	11.21	164	1068589	10.274	ppbv	99
53) Toluene	9.80	91	3047765	11.989	ppbv	100
54) 1,2-Dibromoethane	10.60	107	1544736	12.181	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.11	131	1179512	10.987	ppbv	89
57) Chlorobenzene	12.14	112	2211105	11.138	ppbv	100
58) Ethyl Benzene	12.70	91	3846973	11.615	ppbv	98
59) m/p-Xylene	12.99	91	6420215m	22.293	ppbv	
60) o-Xylene	13.68	91	2975735	11.148	ppbv	96
61) Styrene	13.52	104	1631730	11.870	ppbv	97
62) Isopropylbenzene	14.66	105	4054445	10.316	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.66	83	1992413	9.519	ppbv	98
64) n-propylbenzene	15.55	120	1152547	11.564	ppbv	94
65) tert-Butylbenzene	16.73	119	3852264	10.691	ppbv	99
66) Benzyl Chloride	16.98	91	193965	13.525	ppbv	92
67) sec-Butylbenzene	17.28	105	5199584	10.900	ppbv	100
69) p-Isopropyltoluene	17.64	119	4598733	11.163	ppbv	100
70) n-Butylbenzene	18.54	91	4356044	11.848	ppbv	100
71) 2-Chlorotoluene	15.44	91	2866043	10.870	ppbv	95
72) 4-Ethyltoluene	15.83	105	3754444	11.893	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	3317189	11.127	ppbv	97
74) 1,2,4-Trimethylbenzene	16.75	105	3460128	11.057	ppbv	97
75) 1,3-Dichlorobenzene	16.98	146	2200634	11.110	ppbv	100
76) 1,4-Dichlorobenzene	17.12	146	2190768	11.277	ppbv	99
77) 1,2-Dichlorobenzene	17.80	146	2167231	11.276	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	1869474	12.301	ppbv	99
79) Naphthalene	22.18	128	3899949	17.626	ppbv	98
80) Naphthalene, 2-methyl-	24.96	142	752493	18.714	ppbv	98
81) 1,2,4-Trichlorobenzene	21.91	180	2154190	15.038	ppbv	99

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

