

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042821\
 Data File : VL036894.D
 Acq On : 29 Apr 2021 8:39
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/29/2021 5:53:19 PM

Quant Time: Apr 29 09:31:51 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 29 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1526204	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3805118	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	3458325m	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3037630	10.94	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	1931102	8.034	ppbv	99
3) Chlorodifluoromethane	3.00	51	2531091	9.105	ppbv	99
4) Chloromethane	3.15	50	827178	9.053	ppbv	99
5) Vinyl Chloride	3.27	62	803731	8.721	ppbv	96
6) Bromomethane	3.49	94	421489	8.504	ppbv	98
7) Chloroethane	3.57	64	277409	9.159	ppbv #	87
8) Dichlorotetrafluoroethane	3.20	85	1942081	8.858	ppbv	98
9) Propene	3.02	41	728658	8.601	ppbv	99
10) Heptane	8.14	43	1965477	9.225	ppbv	98
11) Trichlorofluoromethane	3.96	101	1915726	8.929	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1230215	8.567	ppbv	100
13) Ethanol	3.62	45	70142	6.493	ppbv	95
14) Bromoethene	3.75	108	502289	8.562	ppbv	97
15) Acetone	3.86	43	1233677	8.576	ppbv	100
16) 1,3-Butadiene	3.34	39	846627	9.204	ppbv	94
17) tert-Butyl alcohol	4.30	59	1074357	9.201	ppbv	98
18) 1,1-Dichloroethene	4.30	96	542815	8.698	ppbv	98
19) Isopropyl Alcohol	3.99	45	623864	8.753	ppbv #	96
20) Methylene Chloride	4.36	84	486727	7.076	ppbv	89
21) Allyl Chloride	4.43	41	825892	7.726	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	534847	8.540	ppbv	97
23) Vinyl Acetate	5.09	43	1922920	9.827	ppbv #	97
24) 1,1-Dichloroethane	5.02	63	1499430	10.795	ppbv	100
25) Ethyl Acetate	5.70	43	2934791	8.352	ppbv	99
26) Hexane	5.70	57	1422168	8.651	ppbv	94
27) Carbon Disulfide	4.56	76	1357016	9.503	ppbv	100
28) Methyl tert-Butyl Ether	5.05	73	1455315	9.987	ppbv	100
29) Chloroform	5.77	83	2324970	9.071	ppbv	99
30) Cyclohexane	7.15	84	1195443	9.170	ppbv	98
31) cis-1,2-Dichloroethene	5.56	61	1342259	9.096	ppbv	100
32) 1,1,1-Trichloroethane	6.53	97	2300251	8.826	ppbv	99
34) 2-Butanone	5.26	43	1380970	8.285	ppbv	99
35) Carbon Tetrachloride	7.04	117	2465455	9.549	ppbv	98
36) Benzene	6.91	78	2961183	9.236	ppbv	97
37) 1,2-Dichloroethane	6.32	62	1713114	9.436	ppbv	100
38) Trichloroethene	7.85	130	1085538	9.510	ppbv	97
39) 1,2-Dichloropropane	7.64	63	1157131	9.009	ppbv	96
40) 1,4-Dioxane	7.86	88	283965	9.156	ppbv	96
41) Tetrahydrofuran	6.07	42	570600	7.826	ppbv	99
42) Bromodichloromethane	7.81	83	2489182	9.868	ppbv	98
43) Methyl Methacrylate	8.03	69	1058453	10.118	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	5083884	9.253	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	771426m	6.840	ppbv	
46) cis-1,3-Dichloropropene	8.72	75	1055829	7.302	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	1235773	9.293	ppbv	99
48) Dibromochloromethane	10.33	129	2043802	10.372	ppbv	98
49) Bromoform	13.06	173	1717588	10.919	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2080851	9.133	ppbv	99
51) 2-Hexanone	10.16	43	1085150	9.549	ppbv #	98
52) Tetrachloroethene	11.24	164	1006669	9.221	ppbv	98
53) Toluene	9.83	91	3343286	9.966	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1751272	9.328	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.15	131	1449680	9.999	ppbv #	63
57) Chlorobenzene	12.17	112	2548716	9.462	ppbv	98
58) Ethyl Benzene	12.73	91	4530427	10.328	ppbv	99
59) m/p-Xylene	13.01	91	7840385m	19.999	ppbv	
60) o-Xylene	13.72	91	3766228	9.935	ppbv	100
61) Styrene	13.55	104	1944170	10.921	ppbv	100
62) Isopropylbenzene	14.69	105	5083265	9.856	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	2867255	9.436	ppbv	99
64) n-propylbenzene	15.59	120	1326601	10.321	ppbv	96
65) tert-Butylbenzene	16.77	119	4474686	9.813	ppbv	99
66) Benzyl Chloride	17.01	91	350456m	7.860	ppbv	
67) sec-Butylbenzene	17.32	105	6320531	9.982	ppbv	100
69) p-Isopropyltoluene	17.67	119	5120020	10.086	ppbv	99
70) n-Butylbenzene	18.57	91	5395911	10.546	ppbv	99
71) 2-Chlorotoluene	15.47	91	3931341	10.292	ppbv	100
72) 4-Ethyltoluene	15.86	105	4234362	10.407	ppbv	97
73) 1,3,5-Trimethylbenzene	16.02	105	3886208	9.849	ppbv	99
74) 1,2,4-Trimethylbenzene	16.79	105	4097968	9.777	ppbv	98
75) 1,3-Dichlorobenzene	17.02	146	2458521	9.923	ppbv	100
76) 1,4-Dichlorobenzene	17.16	146	2352257	9.701	ppbv	99
77) 1,2-Dichlorobenzene	17.84	146	2377654	9.825	ppbv	100
78) Hexachloro-1,3-Butadiene	23.40	225	1825289	8.876	ppbv	99
79) Naphthalene	22.23	128	2720875	11.591	ppbv	100
80) Naphthalene, 2-methyl-	25.00	142	418699	16.174	ppbv	96
81) 1,2,4-Trichlorobenzene	21.96	180	1698611m	11.187	ppbv	

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

