

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040721\
 Data File : VL036744.D
 Acq On : 8 Apr 2021 9:01
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/12/2021 11:16:44 AM

Quant Time: Apr 08 09:36:23 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1270088	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3176929	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	2876360m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2344529	10.23	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	1735771	8.379 ppbv	98
3) Chlorodifluoromethane	2.98	51	2305609	9.716 ppbv	100
4) Chloromethane	3.13	50	728649	8.693 ppbv	96
5) Vinyl Chloride	3.25	62	749261	8.694 ppbv	98
6) Bromomethane	3.47	94	406712	8.571 ppbv	99
7) Chloroethane	3.55	64	259522	8.763 ppbv	96
8) Dichlorotetrafluoroethane	3.18	85	1735197	8.776 ppbv	96
9) Propene	3.00	41	671232	8.873 ppbv	99
10) Heptane	8.11	43	1797875	9.329 ppbv	98
11) Trichlorofluoromethane	3.94	101	1808263	8.565 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1192525	8.835 ppbv	100
13) Ethanol	3.60	45	83712	9.292 ppbv	93
14) Bromoethene	3.73	108	492423	8.775 ppbv	99
15) Acetone	3.84	43	985557	7.884 ppbv	97
16) 1,3-Butadiene	3.32	39	809516	9.302 ppbv	96
17) tert-Butyl alcohol	4.29	59	1084347	9.965 ppbv	99
18) 1,1-Dichloroethene	4.28	96	512464	8.536 ppbv	98
19) Isopropyl Alcohol	3.96	45	592803	8.621 ppbv	99
20) Methylene Chloride	4.33	84	452377	7.729 ppbv	92
21) Allyl Chloride	4.40	41	880213	8.833 ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	499992	8.983 ppbv	91
23) Vinyl Acetate	5.06	43	1997077	9.340 ppbv	99
24) 1,1-Dichloroethane	5.00	63	1390908	8.924 ppbv	99
25) Ethyl Acetate	5.67	43	2663108	8.961 ppbv	99
26) Hexane	5.68	57	1248266	9.051 ppbv	98
27) Carbon Disulfide	4.54	76	1293307	9.519 ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	1434674	8.821 ppbv	98
29) Chloroform	5.74	83	2044944	9.271 ppbv	97
30) Cyclohexane	7.12	84	1060629	9.482 ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1255335	9.411 ppbv	96
32) 1,1,1-Trichloroethane	6.50	97	2060925	9.272 ppbv	100
34) 2-Butanone	5.23	43	1296101	8.358 ppbv	100
35) Carbon Tetrachloride	7.01	117	2150452	8.813 ppbv	97
36) Benzene	6.88	78	2687850	9.174 ppbv	99
37) 1,2-Dichloroethane	6.30	62	1558600	9.038 ppbv	100
38) Trichloroethene	7.83	130	968586	8.494 ppbv	98
39) 1,2-Dichloropropane	7.61	63	1055889	8.884 ppbv	99
40) 1,4-Dioxane	7.83	88	246188	8.900 ppbv	97
41) Tetrahydrofuran	6.04	42	565670	7.911 ppbv	96
42) Bromodichloromethane	7.78	83	2180229	9.295 ppbv	98
43) Methyl Methacrylate	8.01	69	1017425	10.341 ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	4593484	8.908	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	1006731	8.961	ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	1273670	8.869	ppbv	98
47) 1,1,2-Trichloroethane	9.47	97	1088270	9.040	ppbv	98
48) Dibromochloromethane	10.29	129	1821292	9.924	ppbv	99
49) Bromoform	13.03	173	1499925	10.144	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	1959357	8.732	ppbv	99
51) 2-Hexanone	10.13	43	1063210	9.389	ppbv #	98
52) Tetrachloroethene	11.22	164	929519	8.615	ppbv	98
53) Toluene	9.80	91	3038654	9.739	ppbv	100
54) 1,2-Dibromoethane	10.60	107	1596955	9.393	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	1273404	9.788	ppbv	95
57) Chlorobenzene	12.14	112	2268225	9.268	ppbv	98
58) Ethyl Benzene	12.71	91	4108255	9.817	ppbv	99
59) m/p-Xylene	12.99	91	6975272m	19.110	ppbv	
60) o-Xylene	13.69	91	3282443	9.301	ppbv	100
61) Styrene	13.52	104	1799694	10.136	ppbv	99
62) Isopropylbenzene	14.66	105	4578874	9.634	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	2417415	8.979	ppbv	99
64) n-propylbenzene	15.55	120	1186685	10.213	ppbv	99
65) tert-Butylbenzene	16.74	119	3997406	9.700	ppbv	99
66) Benzyl Chloride	16.99	91	308196	6.766	ppbv	99
67) sec-Butylbenzene	17.29	105	5626981	9.673	ppbv	99
69) p-Isopropyltoluene	17.65	119	4646490	10.228	ppbv	99
70) n-Butylbenzene	18.55	91	4756818	10.099	ppbv	99
71) 2-Chlorotoluene	15.45	91	3504449	9.840	ppbv	100
72) 4-Ethyltoluene	15.83	105	3903453	10.094	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	3464492	9.599	ppbv	97
74) 1,2,4-Trimethylbenzene	16.76	105	3611589	9.350	ppbv	94
75) 1,3-Dichlorobenzene	16.99	146	2123727	9.768	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	2093424	9.698	ppbv	100
77) 1,2-Dichlorobenzene	17.82	146	2107665	10.313	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	1659493	9.067	ppbv	99
79) Naphthalene	22.19	128	2588639	11.485	ppbv	99
80) Naphthalene, 2-methyl-	24.98	142	511726	11.514	ppbv	97
81) 1,2,4-Trichlorobenzene	21.92	180	1544148	11.096	ppbv	98

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

