

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036536.D
 Acq On : 29 Mar 2021 11:04
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/30/2021 7:43:58 PM

Quant Time: Mar 30 06:59:04 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	5.67	49	1633341	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3885691	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3549357m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3057056	10.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	2624050	9.850	ppbv 98
3) Chlorodifluoromethane	2.99	51	2769665	9.076	ppbv 100
4) Chloromethane	3.14	50	1023054	9.491	ppbv 99
5) Vinyl Chloride	3.26	62	972551	8.775	ppbv 97
6) Bromomethane	3.47	94	559317	9.166	ppbv 93
7) Chloroethane	3.56	64	346155	9.089	ppbv 96
8) Dichlorotetrafluoroethane	3.18	85	2363458	9.295	ppbv 100
9) Propene	3.01	41	923445	9.492	ppbv 97
10) Heptane	8.12	43	2361020	9.526	ppbv 99
11) Trichlorofluoromethane	3.95	101	2559333	9.427	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1604869	9.246	ppbv 98
13) Ethanol	3.60	45	84496m	7.293	ppbv
14) Bromoethene	3.74	108	664151	9.204	ppbv 97
15) Acetone	3.85	43	1383089	8.603	ppbv 100
16) 1,3-Butadiene	3.32	39	1027637	9.182	ppbv 98
17) tert-Butyl alcohol	4.29	59	1245998	8.904	ppbv 100
18) 1,1-Dichloroethene	4.29	96	675497	8.749	ppbv 96
19) Isopropyl Alcohol	3.97	45	687463	7.774	ppbv 98
20) Methylene Chloride	4.34	84	624170	8.293	ppbv 97
21) Allyl Chloride	4.41	41	1210654	9.447	ppbv 99
22) trans-1,2-Dichloroethene	4.89	96	644618	9.005	ppbv 92
23) Vinyl Acetate	5.07	43	2614753	9.509	ppbv 99
24) 1,1-Dichloroethane	5.01	63	1875720	9.358	ppbv 98
25) Ethyl Acetate	5.68	43	3536978	9.254	ppbv 99
26) Hexane	5.68	57	1658273	9.350	ppbv 99
27) Carbon Disulfide	4.55	76	1794265	10.269	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	1926131	9.209	ppbv 98
29) Chloroform	5.75	83	2651739	9.349	ppbv 99
30) Cyclohexane	7.13	84	1346247	9.359	ppbv 96
31) cis-1,2-Dichloroethene	5.55	61	1614802	9.413	ppbv 97
32) 1,1,1-Trichloroethane	6.51	97	2631641	9.206	ppbv 98
34) 2-Butanone	5.25	43	1743404	9.192	ppbv 100
35) Carbon Tetrachloride	7.02	117	2776878	9.304	ppbv 98
36) Benzene	6.89	78	3380361	9.433	ppbv 99
37) 1,2-Dichloroethane	6.31	62	1987566	9.423	ppbv 100
38) Trichloroethene	7.83	130	1202145	8.620	ppbv 97
39) 1,2-Dichloropropane	7.62	63	1355192	9.322	ppbv 97
40) 1,4-Dioxane	7.84	88	268170m	7.926	ppbv
41) Tetrahydrofuran	6.05	42	795048	9.091	ppbv 98
42) Bromodichloromethane	7.79	83	2773750	9.668	ppbv 98
43) Methyl Methacrylate	8.01	69	1244740	10.344	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5755641	9.126	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1373189	9.993	ppbv	97
46) cis-1,3-Dichloropropene	8.71	75	1714542	9.761	ppbv	99
47) 1,1,2-Trichloroethane	9.48	97	1361779	9.248	ppbv	97
48) Dibromochloromethane	10.31	129	2213739	9.863	ppbv	100
49) Bromoform	13.04	173	1757590	9.718	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	2744538	10.000	ppbv	98
51) 2-Hexanone	10.14	43	1460871	10.548	ppbv #	100
52) Tetrachloroethene	11.23	164	1102015	8.351	ppbv	97
53) Toluene	9.81	91	3735697	9.789	ppbv	99
54) 1,2-Dibromoethane	10.62	107	1912670	9.198	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	1509035	9.400	ppbv #	59
57) Chlorobenzene	12.15	112	2658765	8.804	ppbv	98
58) Ethyl Benzene	12.71	91	4975767	9.636	ppbv	98
59) m/p-Xylene	13.00	91	8418230m	18.691	ppbv	
60) o-Xylene	13.70	91	3975267	9.128	ppbv	100
61) Styrene	13.53	104	2311207	10.549	ppbv	99
62) Isopropylbenzene	14.67	105	5291038	9.022	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	2806224	8.447	ppbv	100
64) n-propylbenzene	15.56	120	1379272	9.619	ppbv	98
65) tert-Butylbenzene	16.75	119	4558181	8.963	ppbv	99
66) Benzyl Chloride	16.99	91	598035	10.639	ppbv	100
67) sec-Butylbenzene	17.30	105	6409501	8.929	ppbv	100
69) p-Isopropyltoluene	17.66	119	5275544	9.411	ppbv	100
70) n-Butylbenzene	18.56	91	5523806	9.504	ppbv	100
71) 2-Chlorotoluene	15.46	91	4068183	9.257	ppbv	100
72) 4-Ethyltoluene	15.84	105	4552121	9.539	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	4114941	9.239	ppbv	99
74) 1,2,4-Trimethylbenzene	16.77	105	4226599	8.868	ppbv	99
75) 1,3-Dichlorobenzene	17.00	146	2323366	8.660	ppbv	100
76) 1,4-Dichlorobenzene	17.14	146	2280824	8.563	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	2244141	8.899	ppbv	98
78) Hexachloro-1,3-Butadiene	23.38	225	1883830	8.341	ppbv	98
79) Naphthalene	22.20	128	3385620	12.173	ppbv	99
80) Naphthalene, 2-methyl-	24.98	142	623437	11.367	ppbv	98
81) 1,2,4-Trichlorobenzene	21.93	180	1878733m	10.941	ppbv	

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

