

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
 Data File : VL037195.D
 Acq On : 17 Jun 2021 10:17
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 6/21/2021 12:53:46 PM

Quant Time: Jun 18 01:33:19 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 1
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1515584	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4462329	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4283505m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	3203641	9.87	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	2552504	9.684	ppbv 98
3) Chlorodifluoromethane	2.99	51	2727373	9.255	ppbv 100
4) Chloromethane	3.14	50	949336	9.666	ppbv 99
5) Vinyl Chloride	3.26	62	1042985	9.662	ppbv 100
6) Bromomethane	3.47	94	634684	9.856	ppbv 94
7) Chloroethane	3.56	64	377104	9.773	ppbv 94
8) Dichlorotetrafluoroethane	3.19	85	2597459	9.606	ppbv 97
9) Propene	3.01	41	915659	9.717	ppbv 98
10) Heptane	8.12	43	2254427	9.879	ppbv 99
11) Trichlorofluoromethane	3.95	101	2691980	9.572	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1877720	9.471	ppbv 100
13) Ethanol	3.61	45	121467	8.333	ppbv 57
14) Bromoethene	3.74	108	822728	9.943	ppbv 100
15) Acetone	3.85	43	1349485	7.896	ppbv 98
16) 1,3-Butadiene	3.32	39	1004319	9.940	ppbv 99
17) tert-Butyl alcohol	4.29	59	1720297	10.891	ppbv 99
18) 1,1-Dichloroethene	4.29	96	828310	9.428	ppbv 93
19) Isopropyl Alcohol	3.97	45	1016644	9.821	ppbv # 98
20) Methylene Chloride	4.34	84	743341	7.265	ppbv 99
21) Allyl Chloride	4.41	41	1247083	9.680	ppbv 98
22) trans-1,2-Dichloroethene	4.89	96	864644	9.946	ppbv 93
23) Vinyl Acetate	5.07	43	2528030	10.316	ppbv 98
24) 1,1-Dichloroethane	5.01	63	1871523	9.485	ppbv 100
25) Ethyl Acetate	5.68	43	3597569	9.723	ppbv 100
26) Hexane	5.69	57	1725345	9.226	ppbv 99
27) Carbon Disulfide	4.55	76	2026923	11.063	ppbv 100
28) Methyl tert-Butyl Ether	5.03	73	2224642	9.895	ppbv 100
29) Chloroform	5.75	83	2749742	9.519	ppbv 98
30) Cyclohexane	7.13	84	1502217	9.641	ppbv 99
31) cis-1,2-Dichloroethene	5.55	61	1737614	10.112	ppbv 97
32) 1,1,1-Trichloroethane	6.51	97	2853799	9.232	ppbv 100
34) 2-Butanone	5.24	43	1668216	9.613	ppbv 100
35) Carbon Tetrachloride	7.02	117	3037404	10.149	ppbv 98
36) Benzene	6.89	78	3538921	9.808	ppbv 100
37) 1,2-Dichloroethane	6.31	62	2075459	9.901	ppbv 100
38) Trichloroethene	7.83	130	1491585	8.696	ppbv 99
39) 1,2-Dichloropropane	7.61	63	1368348	10.205	ppbv 99
40) 1,4-Dioxane	7.83	88	342963	9.327	ppbv # 1
41) Tetrahydrofuran	6.05	42	832051	10.322	ppbv 98
42) Bromodichloromethane	7.79	83	2926833	10.121	ppbv 99
43) Methyl Methacrylate	8.01	69	1312925	10.536	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5854725	9.636	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	1338102	12.171	ppbv	100
46) cis-1,3-Dichloropropene	8.70	75	1712738	11.388	ppbv	99
47) 1,1,2-Trichloroethane	9.47	97	1499700	9.804	ppbv	98
48) Dibromochloromethane	10.30	129	2670034	11.057	ppbv	99
49) Bromoform	13.04	173	2150838	11.955	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	2487775	10.437	ppbv	100
51) 2-Hexanone	10.14	43	1255524	10.825	ppbv #	98
52) Tetrachloroethene	11.22	164	1478641	8.819	ppbv	97
53) Toluene	9.81	91	4245863	9.851	ppbv	99
54) 1,2-Dibromoethane	10.61	107	2253090	10.249	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.12	131	1810158	9.665	ppbv #	61
57) Chlorobenzene	12.15	112	3249594	9.354	ppbv	96
58) Ethyl Benzene	12.71	91	5632484	9.552	ppbv	98
59) m/p-Xylene	13.00	91	9476461m	18.964	ppbv	
60) o-Xylene	13.69	91	4495055	9.447	ppbv	100
61) Styrene	13.53	104	2583914	10.522	ppbv	98
62) Isopropylbenzene	14.66	105	6215998	9.187	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	2966247	9.362	ppbv	99
64) n-propylbenzene	15.56	120	1704813	10.061	ppbv	97
65) tert-Butylbenzene	16.74	119	5672336	9.452	ppbv	99
66) Benzyl Chloride	16.99	91	290994	11.443	ppbv	100
67) sec-Butylbenzene	17.29	105	7600898	9.498	ppbv	100
69) p-Isopropyltoluene	17.65	119	6651791	9.841	ppbv	100
70) n-Butylbenzene	18.55	91	6323368	10.108	ppbv	99
71) 2-Chlorotoluene	15.45	91	4571514	9.664	ppbv	100
72) 4-Ethyltoluene	15.84	105	5442353	10.068	ppbv	100
73) 1,3,5-Trimethylbenzene	16.00	105	5042730	9.651	ppbv	96
74) 1,2,4-Trimethylbenzene	16.76	105	5219626	9.695	ppbv	95
75) 1,3-Dichlorobenzene	17.00	146	3221295	9.840	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	3195254	9.773	ppbv	98
77) 1,2-Dichlorobenzene	17.82	146	3111554	9.826	ppbv	100
78) Hexachloro-1,3-Butadiene	23.37	225	2080246	7.640	ppbv	99
79) Naphthalene	22.20	128	4173371	9.297	ppbv	100
80) Naphthalene, 2-methyl-	24.97	142	944368	8.022	ppbv	95
81) 1,2,4-Trichlorobenzene	21.93	180	2329205	8.992	ppbv	99

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

