

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036241.D
 Acq On : 14 Jan 2021 1:47
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 1/18/2021 3:50:03 PM

Quant Time: Jan 14 03:18:19 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 1
 QLast Update : Wed Jan 13 07:53:51 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1570380	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3468850	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	3385562m	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2718446	9.70	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	2136008	10.025 ppbv	99
3) Chlorodifluoromethane	2.99	51	1837257	9.429 ppbv	98
4) Chloromethane	3.14	50	901423	9.359 ppbv	94
5) Vinyl Chloride	3.26	62	869707	9.680 ppbv	95
6) Bromomethane	3.48	94	451812	9.551 ppbv	99
7) Chloroethane	3.56	64	307459	10.157 ppbv	98
8) Dichlorotetrafluoroethane	3.19	85	1956407	9.942 ppbv	99
9) Propene	3.01	41	770002	8.293 ppbv	98
10) Heptane	8.14	43	2097396	9.111 ppbv	98
11) Trichlorofluoromethane	3.95	101	1978145	9.477 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1207359	9.215 ppbv	99
13) Ethanol	3.61	45	102384	5.252 ppbv	100
14) Bromoethene	3.74	108	554712	10.018 ppbv	96
15) Acetone	3.86	43	1580840	8.476 ppbv	98
16) 1,3-Butadiene	3.33	39	822209	9.250 ppbv	95
17) tert-Butyl alcohol	4.30	59	1498409	9.806 ppbv	100
18) 1,1-Dichloroethene	4.29	96	520467	9.216 ppbv	96
19) Isopropyl Alcohol	3.98	45	1007583	9.346 ppbv	100
20) Methylene Chloride	4.35	84	455436	7.974 ppbv	95
21) Allyl Chloride	4.42	41	934932	9.187 ppbv	93
22) trans-1,2-Dichloroethene	4.89	96	475531	9.033 ppbv	98
23) Vinyl Acetate	5.08	43	2095236	8.914 ppbv	97
24) 1,1-Dichloroethane	5.02	63	1592081	9.542 ppbv	98
25) Ethyl Acetate	5.69	43	3518694	9.265 ppbv	99
26) Hexane	5.70	57	1420720	8.945 ppbv	99
27) Carbon Disulfide	4.56	76	1365386	10.695 ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	1981307	9.239 ppbv	97
29) Chloroform	5.76	83	2258132	9.713 ppbv	97
30) Cyclohexane	7.14	84	1184254	9.548 ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	1483115	9.682 ppbv	97
32) 1,1,1-Trichloroethane	6.53	97	2222218	9.916 ppbv	99
34) 2-Butanone	5.26	43	2219819	10.041 ppbv	99
35) Carbon Tetrachloride	7.03	117	2210692	10.087 ppbv	99
36) Benzene	6.90	78	2953158	9.291 ppbv	97
37) 1,2-Dichloroethane	6.32	62	1877770	9.818 ppbv	100
38) Trichloroethene	7.85	130	975566	8.208 ppbv	97
39) 1,2-Dichloropropane	7.63	63	1192757	9.243 ppbv	98
40) 1,4-Dioxane	7.84	88	391160m	8.379 ppbv	
41) Tetrahydrofuran	6.06	42	1316884	10.131 ppbv	99
42) Bromodichloromethane	7.81	83	2436666	10.136 ppbv	99
43) Methyl Methacrylate	8.02	69	1336155	10.058 ppbv	96

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

44) 2,2,4-Trimethylpentane	7.88	57	5100528	8.737	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1382016	10.772	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1696759	10.292	ppbv	99
47) 1,1,2-Trichloroethane	9.49	97	1131462	9.165	ppbv	95
48) Dibromochloromethane	10.32	129	1775641	9.831	ppbv	100
49) Bromoform	13.06	173	1338610	9.077	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	3440119	9.282	ppbv	100
51) 2-Hexanone	10.15	43	2786952	9.643	ppbv #	100
52) Tetrachloroethene	11.24	164	892179	7.617	ppbv	97
53) Toluene	9.82	91	3207191	9.116	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1651872	9.129	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.14	131	1310722	8.675	ppbv	99
57) Chlorobenzene	12.17	112	2161778	8.138	ppbv	98
58) Ethyl Benzene	12.73	91	4258834	8.477	ppbv	98
59) m/p-Xylene	13.01	91	7169589m	16.608	ppbv	
60) o-Xylene	13.71	91	3278722	7.879	ppbv	99
61) Styrene	13.55	104	2283051	8.689	ppbv	99
62) Isopropylbenzene	14.68	105	4888255	7.901	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.70	83	2189695	7.067	ppbv	99
64) n-propylbenzene	15.58	120	1232936	8.111	ppbv	97
65) tert-Butylbenzene	16.76	119	3992237	7.615	ppbv	99
66) Benzyl Chloride	17.00	91	1212501	9.053	ppbv	100
67) sec-Butylbenzene	17.31	105	5794142	7.446	ppbv	100
69) p-Isopropyltoluene	17.67	119	4772420	7.825	ppbv	99
70) n-Butylbenzene	18.57	91	5264012	8.005	ppbv	100
71) 2-Chlorotoluene	15.47	91	3757795	7.728	ppbv	100
72) 4-Ethyltoluene	15.86	105	3728913	7.941	ppbv	99
73) 1,3,5-Trimethylbenzene	16.01	105	3506010	7.832	ppbv	100
74) 1,2,4-Trimethylbenzene	16.78	105	3582009	7.801	ppbv	97
75) 1,3-Dichlorobenzene	17.01	146	1870218	7.790	ppbv	100
76) 1,4-Dichlorobenzene	17.16	146	1829554	7.954	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	1913707	8.110	ppbv	98
78) Hexachloro-1,3-Butadiene	23.39	225	1829179	9.731	ppbv	98
79) Naphthalene	22.22	128	3762035	14.323	ppbv	97
80) Naphthalene, 2-methyl-	24.99	142	1005110	18.661	ppbv	96
81) 1,2,4-Trichlorobenzene	21.94	180	1881275m	12.750	ppbv	

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

