

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092920\
 Data File : VL035740.D
 Acq On : 30 Sep 2020 1:31
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/30/2020 5:32:19 PM

Quant Time: Sep 30 04:17:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1140167	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.22	114	4267430	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.14	117	4429638m	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	3254942	9.81	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	1636979	8.750	ppbv 99
3) Chlorodifluoromethane	3.00	51	1202934	9.807	ppbv 100
4) Chloromethane	3.15	50	663657	10.072	ppbv 97
5) Vinyl Chloride	3.27	62	776780	9.966	ppbv 99
6) Bromomethane	3.49	94	644991	9.790	ppbv 98
7) Chloroethane	3.57	64	283616	9.922	ppbv 100
8) Dichlorotetrafluoroethane	3.20	85	2160363	9.521	ppbv 100
9) Propene	3.02	41	465144	10.444	ppbv 100
10) Heptane	8.17	43	1409294	11.351	ppbv 99
11) Trichlorofluoromethane	3.97	101	2612413	9.787	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.51	101	1942799	9.763	ppbv 99
13) Ethanol	3.63	45	116200m	10.580	ppbv
14) Bromoethene	3.76	108	852886	10.175	ppbv 100
15) Acetone	3.87	43	1094835	8.924	ppbv 99
16) 1,3-Butadiene	3.34	39	490586	10.930	ppbv 97
17) tert-Butyl alcohol	4.32	59	1408458	10.539	ppbv 100
18) 1,1-Dichloroethene	4.31	96	894303	10.265	ppbv 97
19) Isopropyl Alcohol	3.99	45	739734	11.084	ppbv 100
20) Methylene Chloride	4.37	84	748257	8.303	ppbv 99
21) Allyl Chloride	4.44	41	627143	10.546	ppbv 99
22) trans-1,2-Dichloroethene	4.91	96	941581	10.230	ppbv 99
23) Vinyl Acetate	5.11	43	1640678	10.918	ppbv 99
24) 1,1-Dichloroethane	5.04	63	1635346	9.991	ppbv 100
25) Ethyl Acetate	5.71	43	2279145	10.324	ppbv 99
26) Hexane	5.72	57	1265793	10.464	ppbv 99
27) Carbon Disulfide	4.57	76	1968739	10.919	ppbv 99
28) Methyl tert-Butyl Ether	5.06	73	2003468	10.448	ppbv 99
29) Chloroform	5.79	83	2444553	9.951	ppbv 100
30) Cyclohexane	7.17	84	1348230	11.296	ppbv 99
31) cis-1,2-Dichloroethene	5.58	61	1297459	11.111	ppbv 97
32) 1,1,1-Trichloroethane	6.55	97	2336227	10.788	ppbv 99
34) 2-Butanone	5.28	43	1540552	10.914	ppbv 100
35) Carbon Tetrachloride	7.06	117	2454555	11.032	ppbv 99
36) Benzene	6.93	78	3061933	11.012	ppbv 100
37) 1,2-Dichloroethane	6.35	62	1515474	10.457	ppbv 100
38) Trichloroethene	7.88	130	1562141	11.262	ppbv 98
39) 1,2-Dichloropropane	7.66	63	1079621	10.712	ppbv 97
40) 1,4-Dioxane	7.87	88	538987	11.694	ppbv 96
41) Tetrahydrofuran	6.08	42	867222	12.196	ppbv 98
42) Bromodichloromethane	7.84	83	2550136	10.923	ppbv 100
43) Methyl Methacrylate	8.06	69	1316514	11.904	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	4293331	10.760	ppbv	100
45) t-1,3-Dichloropropene	9.33	75	1471418	13.178	ppbv	99
46) cis-1,3-Dichloropropene	8.75	75	1749355	12.710	ppbv	99
47) 1,1,2-Trichloroethane	9.53	97	1501335	10.400	ppbv	99
48) Dibromochloromethane	10.36	129	2525803	11.496	ppbv	100
49) Bromoform	13.10	173	2228050	11.951	ppbv	100
50) 4-Methyl-2-Pentanone	8.79	43	2327071	11.288	ppbv	99
51) 2-Hexanone	10.18	43	1980704	11.925	ppbv	99
52) Tetrachloroethene	11.28	164	1430286	10.696	ppbv	99
53) Toluene	9.86	91	3862125	11.779	ppbv	99
54) 1,2-Dibromoethane	10.66	107	2349443	10.869	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.18	131	1947438	10.485	ppbv	99
57) Chlorobenzene	12.20	112	3285257	9.819	ppbv	99
58) Ethyl Benzene	12.77	91	5043759	11.345	ppbv	99
59) m/p-Xylene	13.06	91	8423371m	21.695	ppbv	
60) o-Xylene	13.75	91	4265587	10.861	ppbv	99
61) Styrene	13.59	104	3322638	12.235	ppbv	99
62) Isopropylbenzene	14.73	105	6364590	10.447	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	3147270	9.772	ppbv	100
64) n-propylbenzene	15.62	120	1971703	11.059	ppbv	98
65) tert-Butylbenzene	16.81	119	5917808	10.684	ppbv	100
66) Benzyl Chloride	17.05	91	2292822	13.663	ppbv	100
67) sec-Butylbenzene	17.36	105	7962816	10.411	ppbv	100
69) p-Isopropyltoluene	17.72	119	6776353	10.890	ppbv	100
70) n-Butylbenzene	18.62	91	6880652	10.738	ppbv	99
71) 2-Chlorotoluene	15.52	91	4953385	11.147	ppbv	100
72) 4-Ethyltoluene	15.90	105	5271748	11.331	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	4911528	11.171	ppbv	98
74) 1,2,4-Trimethylbenzene	16.83	105	5151533	10.394	ppbv	97
75) 1,3-Dichlorobenzene	17.06	146	3400112	10.048	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	3411794	10.548	ppbv	100
77) 1,2-Dichlorobenzene	17.88	146	3296875	10.315	ppbv	100
78) Hexachloro-1,3-Butadiene	23.45	225	1884211	10.686	ppbv	99
79) Naphthalene	22.28	128	5340010	11.296	ppbv	98
80) Naphthalene, 2-methyl-	25.03	142	1944116	17.435	ppbv	99
81) 1,2,4-Trichlorobenzene	22.01	180	2670387	10.900	ppbv	100

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

