

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091819\
 Data File : VL034195.D
 Acq On : 19 Sep 2019 10:34
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:37:20 AM

Quant Time: Sep 19 11:13:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 19
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1159054	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1950494	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	2101716m	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.50	95	1823178	9.98	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1435392	8.384	ppbv	99
3) Chlorodifluoromethane	2.97	51	1241454	9.135	ppbv	99
4) Chloromethane	3.12	50	749245	9.382	ppbv	97
5) Vinyl Chloride	3.24	62	659773	9.040	ppbv	99
6) Bromomethane	3.47	94	313794	9.215	ppbv	95
7) Chloroethane	3.55	64	241201	9.455	ppbv	98
8) Dichlorotetrafluoroethane	3.17	85	1381112	9.140	ppbv	99
9) Propene	2.99	41	609479	9.090	ppbv	100
10) Heptane	8.17	43	1623530	9.291	ppbv	99
11) Trichlorofluoromethane	3.95	101	1473746	9.457	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.49	101	958847	9.402	ppbv	99
13) Ethanol	3.60	45	136056	8.380	ppbv	97
14) Bromoethene	3.73	108	411255	9.863	ppbv	99
15) Acetone	3.84	43	1260580	8.115	ppbv	98
16) 1,3-Butadiene	3.31	39	657378	9.697	ppbv	98
17) tert-Butyl alcohol	4.29	59	1081319	10.986	ppbv	100
18) 1,1-Dichloroethene	4.29	96	430312	9.674	ppbv	95
19) Isopropyl Alcohol	3.97	45	987763	10.340	ppbv	100
20) Methylene Chloride	4.35	84	395330	8.826	ppbv	97
21) Allyl Chloride	4.42	41	884718	10.083	ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	435604	9.788	ppbv	97
23) Vinyl Acetate	5.09	43	2128696	9.299	ppbv	99
24) 1,1-Dichloroethane	5.03	63	1390640	9.022	ppbv	99
25) Ethyl Acetate	5.70	43	2604113	8.865	ppbv	100
26) Hexane	5.71	57	1094645	8.958	ppbv	99
27) Carbon Disulfide	4.56	76	1226796	10.886	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	1678420	9.248	ppbv	99
29) Chloroform	5.78	83	1634945	9.363	ppbv	99
30) Cyclohexane	7.17	84	815839	9.248	ppbv	99
31) cis-1,2-Dichloroethene	5.57	61	1172703	9.414	ppbv	100
32) 1,1,1-Trichloroethane	6.55	97	1568555	9.314	ppbv	99
34) 2-Butanone	5.26	43	1814946	9.113	ppbv	100
35) Carbon Tetrachloride	7.06	117	1574131	9.714	ppbv	98
36) Benzene	6.93	78	1975874	9.172	ppbv	98
37) 1,2-Dichloroethane	6.34	62	1494831	9.756	ppbv	100
38) Trichloroethene	7.89	130	668494	8.685	ppbv	94
39) 1,2-Dichloropropane	7.66	63	873077	9.020	ppbv	98
40) 1,4-Dioxane	7.88	88	291423	9.304	ppbv #	94
41) Tetrahydrofuran	6.08	42	1069814	9.538	ppbv	99
42) Bromodichloromethane	7.84	83	1810269	9.845	ppbv	98
43) Methyl Methacrylate	8.06	69	877794	9.864	ppbv	99

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44) 2,2,4-Trimethylpentane	7.92	57	3726606	8.986	ppbv	99
45) t-1,3-Dichloropropene	9.34	75	1148237	10.913	ppbv	97
46) cis-1,3-Dichloropropene	8.76	75	1295769	10.238	ppbv	98
47) 1,1,2-Trichloroethane	9.54	97	790242	9.092	ppbv	95
48) Dibromochloromethane	10.37	129	1366474	9.920	ppbv	100
49) Bromoform	13.12	173	1109076	9.949	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	2664827	9.194	ppbv	99
51) 2-Hexanone	10.19	43	2258819	9.286	ppbv #	99
52) Tetrachloroethene	11.29	164	594931	8.359	ppbv	94
53) Toluene	9.87	91	2175744	9.241	ppbv	100
54) 1,2-Dibromoethane	10.68	107	1187043	9.184	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.20	131	875229	9.338	ppbv	98
57) Chlorobenzene	12.22	112	1556506	8.506	ppbv	100
58) Ethyl Benzene	12.78	91	3004378m	8.859	ppbv	
59) m/p-Xylene	13.07	91	4937695m	17.579	ppbv	
60) o-Xylene	13.77	91	2438480	8.682	ppbv	98
61) Styrene	13.61	104	1792933	8.912	ppbv	99
62) Isopropylbenzene	14.75	105	3168624	8.715	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1776068	7.712	ppbv	100
64) n-propylbenzene	15.64	120	811796	8.825	ppbv	93
65) tert-Butylbenzene	16.83	119	2655307	8.358	ppbv	99
66) Benzyl Chloride	17.08	91	1240290	11.035	ppbv	99
67) sec-Butylbenzene	17.38	105	3853780	8.483	ppbv	99
69) p-Isopropyltoluene	17.74	119	3107635	8.448	ppbv	100
70) n-Butylbenzene	18.64	91	3604517	8.415	ppbv	98
71) 2-Chlorotoluene	15.54	91	2556376	8.605	ppbv	100
72) 4-Ethyltoluene	15.92	105	2788973	8.789	ppbv	99
73) 1,3,5-Trimethylbenzene	16.08	105	2654600	8.659	ppbv	100
74) 1,2,4-Trimethylbenzene	16.85	105	2680844	8.236	ppbv	95
75) 1,3-Dichlorobenzene	17.09	146	1446099	8.280	ppbv	99
76) 1,4-Dichlorobenzene	17.22	146	1468713	8.212	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1430066	8.090	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	1054169	9.004	ppbv	98
79) Naphthalene	22.31	128	2369396	8.268	ppbv	99
80) Naphthalene, 2-methyl-	25.05	142	1014921	7.616	ppbv	100
81) 1,2,4-Trichlorobenzene	22.04	180	1278324	8.053	ppbv	100

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

