

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071719\
 Data File : VL034046.D
 Acq On : 18 Jul 2019 10:38
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 1:37:30 AM

Quant Time: Jul 18 12:18:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1099511	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	2823217	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.19	117	2640018	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.53	95	2030956	9.02	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	1873649	8.258	ppbv	96
3) Chlorodifluoromethane	2.99	51	1256715	9.256	ppbv	99
4) Chloromethane	3.15	50	632650	8.103	ppbv	100
5) Vinyl Chloride	3.27	62	718253	8.182	ppbv	99
6) Bromomethane	3.49	94	482164	9.314	ppbv	98
7) Chloroethane	3.58	64	287483	9.163	ppbv	99
8) Dichlorotetrafluoroethane	3.20	85	1933253	8.739	ppbv	98
9) Propene	3.02	41	436601	8.741	ppbv	97
10) Heptane	8.20	43	1251169	10.004	ppbv	99
11) Trichlorofluoromethane	3.98	101	2037427	7.985	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1493265	8.269	ppbv	99
13) Ethanol	3.62	45	155999	10.054	ppbv	95
14) Bromoethene	3.76	108	610940	9.059	ppbv	98
15) Acetone	3.87	43	1447943	7.833	ppbv	100
16) 1,3-Butadiene	3.34	39	606702	9.294	ppbv	98
17) tert-Butyl alcohol	4.33	59	1392054	9.445	ppbv	98
18) 1,1-Dichloroethene	4.32	96	681316	8.470	ppbv	94
19) Isopropyl Alcohol	4.00	45	1031774	8.315	ppbv	99
20) Methylene Chloride	4.38	84	577859	7.167	ppbv	96
21) Allyl Chloride	4.45	41	994525	8.628	ppbv	98
22) trans-1,2-Dichloroethene	4.93	96	670847	8.753	ppbv	94
23) Vinyl Acetate	5.12	43	1766768	9.575	ppbv	99
24) 1,1-Dichloroethane	5.06	63	1463713	8.951	ppbv	100
25) Ethyl Acetate	5.73	43	2326354	9.201	ppbv	99
26) Hexane	5.74	57	1099096	9.499	ppbv	96
27) Carbon Disulfide	4.59	76	1738397	8.838	ppbv	99
28) Methyl tert-Butyl Ether	5.08	73	1882565	9.608	ppbv	99
29) Chloroform	5.82	83	1903527	8.754	ppbv	97
30) Cyclohexane	7.20	84	916297m	10.254	ppbv	
31) cis-1,2-Dichloroethene	5.61	61	1084321	9.700	ppbv	98
32) 1,1,1-Trichloroethane	6.58	97	1913891	8.684	ppbv	99
34) 2-Butanone	5.30	43	1420851	9.509	ppbv	99
35) Carbon Tetrachloride	7.09	117	2011924	9.002	ppbv	97
36) Benzene	6.97	78	2195762	9.940	ppbv	98
37) 1,2-Dichloroethane	6.38	62	1461479	8.980	ppbv	99
38) Trichloroethene	7.92	130	945922	9.624	ppbv	98
39) 1,2-Dichloropropane	7.70	63	802290	9.767	ppbv	97
40) 1,4-Dioxane	7.91	88	344023	9.071	ppbv #	99
41) Tetrahydrofuran	6.11	42	764460	10.433	ppbv	99
42) Bromodichloromethane	7.88	83	2079128	9.522	ppbv	96
43) Methyl Methacrylate	8.10	69	887662	10.591	ppbv	99

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

44) 2,2,4-Trimethylpentane	7.95	57	3772728	9.894	ppbv	100
45) t-1,3-Dichloropropene	9.37	75	1496048	13.650	ppbv	92
46) cis-1,3-Dichloropropene	8.80	75	1300692	10.247	ppbv	99
47) 1,1,2-Trichloroethane	9.57	97	861820	8.344	ppbv	95
48) Dibromochloromethane	10.41	129	1623283	8.237	ppbv	99
49) Bromoform	13.15	173	1475148	8.762	ppbv	100
50) 4-Methyl-2-Pentanone	8.83	43	2192448	9.888	ppbv	100
51) 2-Hexanone	10.23	43	1605846	8.981	ppbv #	98
52) Tetrachloroethene	11.33	164	803122m	8.447	ppbv	
53) Toluene	9.90	91	2418583	9.564	ppbv	99
54) 1,2-Dibromoethane	10.71	107	1352332	8.872	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.23	131	1105630	9.370	ppbv	97
57) Chlorobenzene	12.25	112	1885881	8.972	ppbv	98
58) Ethyl Benzene	12.82	91	3354237	10.565	ppbv	99
59) m/p-Xylene	13.10	91	5666961m	19.714	ppbv	
60) o-Xylene	13.80	91	2797318	9.727	ppbv	99
61) Styrene	13.64	104	1966791	10.334	ppbv	100
62) Isopropylbenzene	14.78	105	3789777	8.573	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	1937061	8.702	ppbv	99
64) n-propylbenzene	15.68	120	992121	8.654	ppbv	97
65) tert-Butylbenzene	16.86	119	3585402	9.538	ppbv	100
66) Benzyl Chloride	17.11	91	1535165	7.982	ppbv	99
67) sec-Butylbenzene	17.42	105	5034861	9.542	ppbv	99
69) p-Isopropyltoluene	17.77	119	4140118	9.516	ppbv	100
70) n-Butylbenzene	18.67	91	4279183	9.363	ppbv	99
71) 2-Chlorotoluene	15.57	91	2937638	9.080	ppbv	99
72) 4-Ethyltoluene	15.95	105	3309968	8.963	ppbv	98
73) 1,3,5-Trimethylbenzene	16.11	105	3223531	9.381	ppbv	100
74) 1,2,4-Trimethylbenzene	16.88	105	3376745	8.873	ppbv #	91
75) 1,3-Dichlorobenzene	17.12	146	1959371	8.105	ppbv	100
76) 1,4-Dichlorobenzene	17.26	146	1890293	8.302	ppbv	100
77) 1,2-Dichlorobenzene	17.94	146	1859748	8.308	ppbv	99
78) Hexachloro-1,3-Butadiene	23.50	225	1536192	8.065	ppbv	99
79) Naphthalene	22.35	128	2608907	8.154	ppbv	99
80) Naphthalene, 2-methyl-	25.08	142	699248	6.005	ppbv	97
81) 1,2,4-Trichlorobenzene	22.08	180	1561444	7.598	ppbv	99

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

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