

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031986.D
 Acq On : 4 May 2018 6:42
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:22 PM

Quant Time: May 04 07:12:33 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1230532	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2524366	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2611790m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	2049226	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	1327622	8.17	ppbv	100
3) Chlorodifluoromethane	3.10	51	1103820	9.53	ppbv	97
4) Chloromethane	3.25	50	572107	9.38	ppbv	99
5) Vinyl Chloride	3.38	62	606469	8.81	ppbv	96
6) Bromomethane	3.60	94	413115	9.22	ppbv	99
7) Chloroethane	3.69	64	245232	9.37	ppbv	93
8) Dichlorotetrafluoroethane	3.31	85	1533852	9.48	ppbv	96
9) Propene	3.12	41	408999	9.64	ppbv	100
10) Heptane	8.39	43	1399516	9.59	ppbv	98
11) Trichlorofluoromethane	4.11	101	1699558	8.66	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.66	101	1326798	9.60	ppbv	98
13) Ethanol	3.74	45	133745	8.44	ppbv #	100
14) Bromoethene	3.88	108	458196	8.97	ppbv	99
15) Acetone	4.00	43	1169988	6.73	ppbv	98
16) 1,3-Butadiene	3.45	39	515555	9.22	ppbv	90
17) tert-Butyl alcohol	4.46	59	714130	9.93	ppbv	100
18) 1,1-Dichloroethene	4.46	96	615406	10.15	ppbv	99
19) Isopropyl Alcohol	4.12	45	790937	8.41	ppbv	100
20) Methylene Chloride	4.51	84	579617	9.87	ppbv	98
21) Allyl Chloride	4.59	41	992479	10.01	ppbv	100
22) trans-1,2-Dichloroethene	5.08	96	654360	9.73	ppbv	98
23) Vinyl Acetate	5.27	43	1979307	9.96	ppbv	99
24) 1,1-Dichloroethane	5.21	63	1796213	9.68	ppbv	100
25) Ethyl Acetate	5.89	43	2730769	9.14	ppbv	99
26) Hexane	5.90	57	1292328	9.21	ppbv	99
27) Carbon Disulfide	4.73	76	1668570	10.61	ppbv	100
28) Methyl tert-Butyl Ether	5.23	73	1732372	10.03	ppbv	100
29) Chloroform	5.97	83	2065188	9.30	ppbv	99
30) Cyclohexane	7.39	84	896797m	9.58	ppbv	
31) cis-1,2-Dichloroethene	5.76	61	1212341	9.44	ppbv	96
32) 1,1,1-Trichloroethane	6.75	97	2125867	10.38	ppbv	99
34) 2-Butanone	5.45	43	1817363	8.73	ppbv	99
35) Carbon Tetrachloride	7.27	117	1894173	9.47	ppbv	97
36) Benzene	7.14	78	2110158	8.87	ppbv	99
37) 1,2-Dichloroethane	6.54	62	1775059	10.38	ppbv	99
38) Trichloroethene	8.10	130	890242	9.86	ppbv	97
39) 1,2-Dichloropropane	7.87	63	782925	9.46	ppbv	98
40) 1,4-Dioxane	8.09	88	366546	9.83	ppbv	95
41) Tetrahydrofuran	6.27	42	917513	10.11	ppbv	99
42) Bromodichloromethane	8.06	83	1849210	9.71	ppbv	99
43) Methyl Methacrylate	8.27	69	810492	10.11	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	3650286	9.52	ppbv	100
45) t-1,3-Dichloropropene	9.56	75	1157737	10.90	ppbv	99
46) cis-1,3-Dichloropropene	8.98	75	1403182	10.70	ppbv	98
47) 1,1,2-Trichloroethane	9.76	97	908693	9.28	ppbv	98
48) Dibromochloromethane	10.60	129	1598835	10.18	ppbv	100
49) Bromoform	13.35	173	1232346	10.12	ppbv	100
50) 4-Methyl-2-Pentanone	9.01	43	1903787	9.68	ppbv	99
51) 2-Hexanone	10.41	43	1850436	10.33	ppbv #	100
52) Tetrachloroethene	11.52	164	829221	9.42	ppbv	97
53) Toluene	10.09	91	2557877	9.98	ppbv	99
54) 1,2-Dibromoethane	10.91	107	1415935	9.70	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.43	131	1076870	9.05	ppbv	97
57) Chlorobenzene	12.45	112	2041105	9.06	ppbv	99
58) Ethyl Benzene	13.02	91	3610544	9.65	ppbv	99
59) m/p-Xylene	13.30	91	6081631m	19.17	ppbv	
60) o-Xylene	14.00	91	3096884	9.73	ppbv	100
61) Styrene	13.84	104	707111	10.95	ppbv	98
62) Isopropylbenzene	14.97	105	3814140	9.37	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.98	83	1983546	8.77	ppbv	99
64) n-propylbenzene	15.87	120	970502	9.51	ppbv	99
65) tert-Butylbenzene	17.06	119	3315887	9.13	ppbv	99
66) Benzyl Chloride	17.31	91	322335	9.77	ppbv	99
67) sec-Butylbenzene	17.61	105	4683729	9.29	ppbv	100
69) p-Isopropyltoluene	17.96	119	3881730	9.58	ppbv	99
70) n-Butylbenzene	18.86	91	4081637	9.74	ppbv	99
71) 2-Chlorotoluene	15.77	91	2867578	9.62	ppbv	99
72) 4-Ethyltoluene	16.15	105	3197512	9.89	ppbv	99
73) 1,3,5-Trimethylbenzene	16.31	105	2880793	9.64	ppbv	96
74) 1,2,4-Trimethylbenzene	17.08	105	3058343	9.25	ppbv	96
75) 1,3-Dichlorobenzene	17.32	146	1924677	9.43	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	1965172	9.73	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	1911640	9.31	ppbv	99
78) Hexachloro-1,3-Butadiene	23.68	225	1495063	16.02	ppbv	100
79) Naphthalene	22.59	128	3417687	14.85	ppbv	99
80) Naphthalene, 2-methyl-	25.23	142	1554504	28.31	ppbv	99
81) 1,2,4-Trichlorobenzene	22.31	180	1683542	13.19	ppbv	99

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

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