

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026666.D
 Acq On : 9 Jan 2016 8:19
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMdadoda
 1/14/2016 10:51:24 AM

Quant Time: Jan 12 05:10:23 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 18
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.64	49	677589	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	2138247	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.73	117	2681599m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.27	95	2369185	11.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.80%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.63	85	2094278	11.63	ppbv	100
3) Chlorodifluoromethane	3.56	51	902087	10.00	ppbv	94
4) Chloromethane	3.74	50	401651	9.10	ppbv	99
5) Vinyl Chloride	3.87	62	488613	9.14	ppbv	98
6) Bromomethane	4.13	94	390523	10.26	ppbv	92
7) Chloroethane	4.23	64	216449	10.02	ppbv	99
8) Dichlorotetrafluoroethane	3.79	85	1510881	10.67	ppbv	99
9) Propene	3.58	41	278660	8.59	ppbv	99
10) Heptane	9.34	43	1149815	9.51	ppbv	96
11) Trichlorofluoromethane	4.68	101	2205215	11.81	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	5.29	101	1273375	11.10	ppbv	99
13) Ethanol	4.31	45	53323	8.65	ppbv	98
14) Bromoethene	4.44	108	442325	10.70	ppbv	98
15) Acetone	4.59	43	1049486	9.42	ppbv	97
16) 1,3-Butadiene	3.96	39	429973	9.66	ppbv	97
17) tert-Butyl alcohol	5.11	59	908332	10.81	ppbv	100
18) 1,1-Dichloroethene	5.07	96	518543	10.84	ppbv	100
19) Isopropyl Alcohol	4.73	45	456806	9.94	ppbv	100
20) Methylene Chloride	5.14	84	466934	10.21	ppbv	98
21) Allyl Chloride	5.21	41	678919	9.93	ppbv	86
22) trans-1,2-Dichloroethene	5.75	96	573081	10.49	ppbv	98
23) Vinyl Acetate	5.97	43	1754317	10.25	ppbv	100
24) 1,1-Dichloroethane	5.90	63	1242373	10.07	ppbv	99
25) Ethyl Acetate	6.65	43	1696015	9.86	ppbv	99
26) Hexane	6.64	57	856499	9.63	ppbv	97
27) Carbon Disulfide	5.37	76	1468871	11.11	ppbv	96
28) Methyl tert-Butyl Ether	5.94	73	1894720	10.71	ppbv	97
29) Chloroform	6.73	83	1773296	10.98	ppbv	99
30) Cyclohexane	8.26	84	924450	10.53	ppbv	94
31) cis-1,2-Dichloroethene	6.50	61	947080	10.56	ppbv	98
32) 1,1,1-Trichloroethane	7.58	97	1975827	10.84	ppbv	99
34) 2-Butanone	6.18	43	991817	8.70	ppbv	97
35) Carbon Tetrachloride	8.15	117	2018378	10.73	ppbv	98
36) Benzene	8.01	78	2055355	9.34	ppbv	97
37) 1,2-Dichloroethane	7.36	62	1618256	10.75	ppbv	98
38) Trichloroethene	9.05	130	858438	8.74	ppbv	98
39) 1,2-Dichloropropane	8.81	63	694638	9.13	ppbv	92
40) 1,4-Dioxane	9.09	88	187608	10.73	ppbv	61
41) Tetrahydrofuran	7.10	42	518699	9.19	ppbv	95
42) Bromodichloromethane	9.01	83	2088557	10.75	ppbv	99
43) Methyl Methacrylate	9.24	69	831595	10.35	ppbv	96

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

44) 2,2,4-Trimethylpentane	9.07	57	3175566	8.94	ppbv	97
45) t-1,3-Dichloropropene	10.63	75	1518808	11.67	ppbv	97
46) cis-1,3-Dichloropropene	10.00	75	1607290	10.86	ppbv	99
47) 1,1,2-Trichloroethane	10.86	97	1078069	9.94	ppbv	97
48) Dibromochloromethane	11.78	129	1844528	11.34	ppbv	100
49) Bromoform	14.79	173	1557010	11.73	ppbv	100
50) 4-Methyl-2-Pentanone	10.07	43	1536686	9.59	ppbv	99
51) 2-Hexanone	11.60	43	1550636	10.50	ppbv #	100
52) Tetrachloroethene	12.77	164	1020357	9.28	ppbv	98
53) Toluene	11.22	91	3195219	10.30	ppbv	99
54) 1,2-Dibromoethane	12.12	107	1777580	10.36	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.77	131	1361990	11.03	ppbv	96
57) Chlorobenzene	13.79	112	2767381	10.02	ppbv	98
58) Ethyl Benzene	14.39	91	5248709	10.96	ppbv	99
59) m/p-Xylene	14.69	91	8277355	20.97	ppbv	99
60) o-Xylene	15.47	91	4314419	10.11	ppbv	100
61) Styrene	15.29	104	2020404	12.12	ppbv	100
62) Isopropylbenzene	16.52	105	6025714	10.67	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.46	83	2700935	8.49	ppbv	100
64) n-propylbenzene	17.50	120	1616794	10.67	ppbv	100
65) tert-Butylbenzene	18.78	119	5130890	9.91	ppbv	100
66) Benzyl Chloride	19.08	91	2327903	12.59	ppbv	100
67) sec-Butylbenzene	19.39	105	8107201	10.56	ppbv	100
69) p-Isopropyltoluene	19.77	119	6360868	10.83	ppbv	99
70) n-Butylbenzene	20.74	91	6739964	11.03	ppbv	99
71) 2-Chlorotoluene	17.41	91	4896635	11.13	ppbv	99
72) 4-Ethyltoluene	17.80	105	5351282	11.22	ppbv	99
73) 1,3,5-Trimethylbenzene	17.97	105	4948078	10.94	ppbv	99
74) 1,2,4-Trimethylbenzene	18.82	105	4791857	9.98	ppbv	99
75) 1,3-Dichlorobenzene	19.10	146	3074076	10.37	ppbv	100
76) 1,4-Dichlorobenzene	19.25	146	3189357	10.48	ppbv	100
77) 1,2-Dichlorobenzene	20.00	146	3214836	10.68	ppbv	99
78) Hexachloro-1,3-Butadiene	24.65	225	1159479	9.44	ppbv	99
79) Naphthalene	23.91	128	3618818	11.17	ppbv	99
80) Naphthalene, 2-methyl-	26.02	142	816268	16.23	ppbv	99
81) 1,2,4-Trichlorobenzene	23.71	180	1583328	10.74	ppbv	99

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

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