

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026661.D
 Acq On : 9 Jan 2016 5:09
 Operator : SY/AP
 Sample : H1002-17
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Manual Integrations
 APPROVED

MMdadoda
 1/14/2016 10:51:17 AM

Quant Time: Jan 12 05:16:15 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 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	6.63	49	675113	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	2139698	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	2885040	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.25	95	2367031	10.29	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.64	85	89813	0.50	ppbv	98
3) Chlorodifluoromethane	3.57	51	42288	0.47	ppbv	98
4) Chloromethane	3.75	50	17961	0.41	ppbv	93
5) Vinyl Chloride	3.88	62	19753	0.37	ppbv #	83
6) Bromomethane	4.14	94	14957	0.39	ppbv	86
7) Chloroethane	4.24	64	9250	0.43	ppbv	95
8) Dichlorotetrafluoroethane	3.79	85	65872	0.47	ppbv	98
9) Propene	3.59	41	11115	0.34	ppbv	88
10) Heptane	9.34	43	42980	0.36	ppbv	89
11) Trichlorofluoromethane	4.68	101	97964	0.53	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	5.29	101	55167	0.48	ppbv	97
13) Ethanol	4.35	45	2077	0.34	ppbv	88
14) Bromoethene	4.45	108	16763	0.41	ppbv	88
15) Acetone	4.62	43	63541m	0.57	ppbv	
16) 1,3-Butadiene	3.96	39	18345	0.41	ppbv	92
17) tert-Butyl alcohol	5.15	59	34041m	0.41	ppbv	
18) 1,1-Dichloroethene	5.07	96	21773	0.46	ppbv #	84
19) Isopropyl Alcohol	4.78	45	17007	0.37	ppbv #	96
20) Methylene Chloride	5.14	84	23532m	0.52	ppbv	
21) Allyl Chloride	5.21	41	26261	0.39	ppbv #	68
22) trans-1,2-Dichloroethene	5.76	96	23833	0.44	ppbv	85
23) Vinyl Acetate	5.98	43	59798	0.35	ppbv	98
24) 1,1-Dichloroethane	5.90	63	51650	0.42	ppbv	95
25) Ethyl Acetate	6.68	43	42590m	0.25	ppbv	
26) Hexane	6.64	57	31761	0.36	ppbv	97
27) Carbon Disulfide	5.37	76	54717	0.42	ppbv #	85
28) Methyl tert-Butyl Ether	5.96	73	66694	0.38	ppbv	99
29) Chloroform	6.73	83	79489	0.49	ppbv	91
30) Cyclohexane	8.27	84	33996m	0.39	ppbv	
31) cis-1,2-Dichloroethene	6.50	61	32514	0.36	ppbv	87
32) 1,1,1-Trichloroethane	7.57	97	77866	0.43	ppbv	99
34) 2-Butanone	6.21	43	41192	0.36	ppbv	98
35) Carbon Tetrachloride	8.13	117	78105	0.41	ppbv	92
36) Benzene	8.01	78	73820	0.34	ppbv	95
37) 1,2-Dichloroethane	7.35	62	63119m	0.42	ppbv	
38) Trichloroethene	9.05	130	36972	0.38	ppbv	91
39) 1,2-Dichloropropane	8.80	63	30057	0.39	ppbv	88
40) 1,4-Dioxane	9.18	88	4290	0.25	ppbv #	1
41) Tetrahydrofuran	7.14	42	15011m	0.27	ppbv	
42) Bromodichloromethane	9.00	83	79769	0.41	ppbv #	91
43) Methyl Methacrylate	9.26	69	22912	0.28	ppbv	95

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 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)
44) 2,2,4-Trimethylpentane	9.06	57	121720	0.34	ppbv	98
45) t-1,3-Dichloropropene	10.63	75	35665	0.27	ppbv	97
46) cis-1,3-Dichloropropene	10.00	75	42195	0.28	ppbv #	91
47) 1,1,2-Trichloroethane	10.86	97	43215	0.40	ppbv	98
48) Dibromochloromethane	11.77	129	64149	0.39	ppbv	99
49) Bromoform	14.79	173	52066	0.39	ppbv	97
50) 4-Methyl-2-Pentanone	10.09	43	44410	0.28	ppbv	97
51) 2-Hexanone	11.62	43	36523	0.25	ppbv #	95
52) Tetrachloroethene	12.77	164	42893	0.39	ppbv	95
53) Toluene	11.21	91	100491	0.32	ppbv	95
54) 1,2-Dibromoethane	12.12	107	69819	0.41	ppbv	94
56) 1,1,1,2-Tetrachloroethane	13.76	131	56643	0.43	ppbv #	1
57) Chlorobenzene	13.79	112	142496	0.48	ppbv	91
58) Ethyl Benzene	14.39	91	166396	0.32	ppbv	98
59) m/p-Xylene	14.69	91	326847	0.77	ppbv	98
60) o-Xylene	15.47	91	197632	0.43	ppbv	99
61) Styrene	15.29	104	53559	0.30	ppbv	99
62) Isopropylbenzene	16.52	105	245893	0.40	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.45	83	149632	0.44	ppbv	99
64) n-propylbenzene	17.50	120	63590	0.39	ppbv	87
65) tert-Butylbenzene	18.79	119	235875	0.42	ppbv	94
66) Benzyl Chloride	19.08	91	60039	0.30	ppbv	95
67) sec-Butylbenzene	19.38	105	336786	0.41	ppbv	98
69) p-Isopropyltoluene	19.77	119	231281	0.37	ppbv	98
70) n-Butylbenzene	20.74	91	228272	0.35	ppbv	95
71) 2-Chlorotoluene	17.40	91	151666	0.32	ppbv	97
72) 4-Ethyltoluene	17.80	105	181572	0.35	ppbv	97
73) 1,3,5-Trimethylbenzene	17.96	105	182239	0.37	ppbv	95
74) 1,2,4-Trimethylbenzene	18.80	105	222350	0.43	ppbv #	86
75) 1,3-Dichlorobenzene	19.10	146	144670	0.45	ppbv	98
76) 1,4-Dichlorobenzene	19.25	146	142698	0.44	ppbv	98
77) 1,2-Dichlorobenzene	20.00	146	136407	0.42	ppbv	98
78) Hexachloro-1,3-Butadiene	24.65	225	52523	0.40	ppbv	96
79) Naphthalene	23.92	128	86001	0.25	ppbv	99
80) Naphthalene, 2-methyl-	26.03	142	15368	0.28	ppbv #	84
81) 1,2,4-Trichlorobenzene	23.72	180	49002	0.31	ppbv	97

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

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