

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026663.D
 Acq On : 9 Jan 2016 6:25
 Operator : SY/AP
 Sample : H1002-19
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-5

Manual Integrations
 APPROVED

MMdadoda
 1/14/2016 10:51:20 AM

Quant Time: Jan 12 04:56:28 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	651009	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	2069563	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	2849825	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.26	95	2341412	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.63	85	89314	0.52	ppbv	99
3) Chlorodifluoromethane	3.56	51	41942	0.48	ppbv	98
4) Chloromethane	3.75	50	17852	0.42	ppbv #	73
5) Vinyl Chloride	3.88	62	19937m	0.39	ppbv	
6) Bromomethane	4.14	94	15957	0.44	ppbv	89
7) Chloroethane	4.23	64	8927	0.43	ppbv	91
8) Dichlorotetrafluoroethane	3.79	85	68916	0.51	ppbv	97
9) Propene	3.59	41	10951	0.35	ppbv	98
10) Heptane	9.33	43	40216	0.35	ppbv	90
11) Trichlorofluoromethane	4.68	101	94510	0.53	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	5.29	101	54029	0.49	ppbv	97
13) Ethanol	4.34	45	1851m	0.31	ppbv	
14) Bromoethene	4.45	108	17376	0.44	ppbv	98
15) Acetone	4.61	43	65754m	0.61	ppbv	
16) 1,3-Butadiene	3.96	39	19057	0.45	ppbv	87
17) tert-Butyl alcohol	5.15	59	30023m	0.37	ppbv	
18) 1,1-Dichloroethene	5.07	96	22824m	0.50	ppbv	
19) Isopropyl Alcohol	4.78	45	15926m	0.36	ppbv	
20) Methylene Chloride	5.14	84	24195	0.55	ppbv #	76
21) Allyl Chloride	5.21	41	27319m	0.42	ppbv	
22) trans-1,2-Dichloroethene	5.75	96	21567	0.41	ppbv	86
23) Vinyl Acetate	5.98	43	54698	0.33	ppbv #	96
24) 1,1-Dichloroethane	5.89	63	51884	0.44	ppbv	97
25) Ethyl Acetate	6.67	43	47602	0.29	ppbv #	91
26) Hexane	6.63	57	31238	0.37	ppbv	95
27) Carbon Disulfide	5.37	76	54848	0.43	ppbv #	89
28) Methyl tert-Butyl Ether	5.96	73	59672m	0.35	ppbv	
29) Chloroform	6.72	83	75140	0.48	ppbv	92
30) Cyclohexane	8.26	84	32007	0.38	ppbv #	27
31) cis-1,2-Dichloroethene	6.49	61	30244	0.35	ppbv	95
32) 1,1,1-Trichloroethane	7.57	97	76594	0.44	ppbv	96
34) 2-Butanone	6.21	43	39407	0.36	ppbv	98
35) Carbon Tetrachloride	8.13	117	73055	0.40	ppbv #	91
36) Benzene	8.00	78	65958	0.31	ppbv	95
37) 1,2-Dichloroethane	7.35	62	58887	0.40	ppbv	100
38) Trichloroethene	9.05	130	35349m	0.37	ppbv	
39) 1,2-Dichloropropane	8.81	63	29721	0.40	ppbv	91
40) 1,4-Dioxane	9.17	88	4054m	0.24	ppbv	
41) Tetrahydrofuran	7.15	42	14102m	0.26	ppbv	
42) Bromodichloromethane	9.00	83	77266	0.41	ppbv	100
43) Methyl Methacrylate	9.25	69	24692	0.32	ppbv	83

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 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	9.06	57	109302	0.32	ppbv	91
45) t-1,3-Dichloropropene	10.63	75	35359m	0.28	ppbv	
46) cis-1,3-Dichloropropene	10.00	75	42009	0.29	ppbv #	88
47) 1,1,2-Trichloroethane	10.85	97	41762	0.40	ppbv	97
48) Dibromochloromethane	11.77	129	63886	0.41	ppbv	99
49) Bromoform	14.79	173	54148	0.42	ppbv	97
50) 4-Methyl-2-Pentanone	10.09	43	43060	0.28	ppbv	95
51) 2-Hexanone	11.62	43	33918	0.24	ppbv #	99
52) Tetrachloroethene	12.76	164	43753	0.41	ppbv	87
53) Toluene	11.21	91	95611	0.32	ppbv	98
54) 1,2-Dibromoethane	12.11	107	70732m	0.43	ppbv	
56) 1,1,1,2-Tetrachloroethane	13.76	131	57386	0.44	ppbv #	1
57) Chlorobenzene	13.78	112	134474	0.46	ppbv	92
58) Ethyl Benzene	14.38	91	162857	0.32	ppbv #	89
59) m/p-Xylene	14.69	91	317002	0.76	ppbv	98
60) o-Xylene	15.46	91	188462	0.42	ppbv	95
61) Styrene	15.29	104	53372	0.30	ppbv	99
62) Isopropylbenzene	16.52	105	238216	0.40	ppbv	97
63) 1,1,2,2-Tetrachloroethane	15.46	83	149454	0.44	ppbv	98
64) n-propylbenzene	17.49	120	63046	0.39	ppbv	92
65) tert-Butylbenzene	18.79	119	227574	0.41	ppbv	94
66) Benzyl Chloride	19.07	91	58425	0.30	ppbv #	98
67) sec-Butylbenzene	19.38	105	330269	0.40	ppbv	99
69) p-Isopropyltoluene	19.76	119	222050	0.36	ppbv	99
70) n-Butylbenzene	20.74	91	223683	0.34	ppbv	97
71) 2-Chlorotoluene	17.40	91	152399	0.33	ppbv	95
72) 4-Ethyltoluene	17.79	105	169921	0.34	ppbv	98
73) 1,3,5-Trimethylbenzene	17.96	105	176100	0.37	ppbv	96
74) 1,2,4-Trimethylbenzene	18.80	105	219456	0.43	ppbv #	86
75) 1,3-Dichlorobenzene	19.08	146	143803	0.46	ppbv	100
76) 1,4-Dichlorobenzene	19.25	146	138636	0.43	ppbv	99
77) 1,2-Dichlorobenzene	20.00	146	132851	0.42	ppbv	96
78) Hexachloro-1,3-Butadiene	24.64	225	54833	0.42	ppbv	98
79) Naphthalene	23.91	128	86098	0.25	ppbv #	96
80) Naphthalene, 2-methyl-	26.03	142	16047m	0.30	ppbv	
81) 1,2,4-Trichlorobenzene	23.71	180	48687	0.31	ppbv	94

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

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