

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031966.D
 Acq On : 3 May 2018 15:21
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:02 PM

Quant Time: May 03 15:51:17 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 03 2018
 QLast Update : Thu May 03 12:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1350413	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2791592m	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2937570	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	2228738	9.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	2172294	7.80	ppbv	98
3) Chlorodifluoromethane	3.10	51	1377470	8.77	ppbv	98
4) Chloromethane	3.26	50	818098	10.20	ppbv	95
5) Vinyl Chloride	3.38	62	888633	9.84	ppbv	97
6) Bromomethane	3.61	94	594738	10.02	ppbv	98
7) Chloroethane	3.69	64	367083	10.20	ppbv #	89
8) Dichlorotetrafluoroethane	3.31	85	2134318	9.33	ppbv	98
9) Propene	3.12	41	631140	11.62	ppbv	100
10) Heptane	8.39	43	2170550	12.32	ppbv	99
11) Trichlorofluoromethane	4.11	101	2374350	8.69	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.66	101	1862274	10.49	ppbv	97
13) Ethanol	3.74	45	175862	9.54	ppbv	100
14) Bromoethene	3.89	108	704290	10.53	ppbv	98
15) Acetone	4.00	43	1652178	7.95	ppbv	100
16) 1,3-Butadiene	3.45	39	803313	10.45	ppbv	94
17) tert-Butyl alcohol	4.46	59	631673	7.35	ppbv	98
18) 1,1-Dichloroethene	4.46	96	713918	9.36	ppbv	89
19) Isopropyl Alcohol	4.12	45	1079917	9.30	ppbv #	98
20) Methylene Chloride	4.52	84	745779	9.85	ppbv	94
21) Allyl Chloride	4.59	41	1412327	11.89	ppbv	97
22) trans-1,2-Dichloroethene	5.08	96	917479	11.61	ppbv	97
23) Vinyl Acetate	5.27	43	2797986	13.28	ppbv	99
24) 1,1-Dichloroethane	5.21	63	2446321	11.65	ppbv	99
25) Ethyl Acetate	5.89	43	4259651	13.14	ppbv	100
26) Hexane	5.90	57	2009239	13.29	ppbv	100
27) Carbon Disulfide	4.73	76	2338765	11.92	ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	2355435	12.66	ppbv	100
29) Chloroform	5.97	83	3067130	11.97	ppbv	99
30) Cyclohexane	7.39	84	1530753	14.18	ppbv	98
31) cis-1,2-Dichloroethene	5.76	61	1913117	13.97	ppbv	93
32) 1,1,1-Trichloroethane	6.75	97	3035508	12.17	ppbv	99
34) 2-Butanone	5.45	43	2546525	13.15	ppbv	100
35) Carbon Tetrachloride	7.27	117	3078160	12.70	ppbv	98
36) Benzene	7.14	78	4079062	16.24	ppbv	99
37) 1,2-Dichloroethane	6.55	62	2512378	13.45	ppbv	98
38) Trichloroethene	8.10	130	1277067	12.53	ppbv	96
39) 1,2-Dichloropropane	7.88	63	1178875	12.63	ppbv	98
40) 1,4-Dioxane	8.09	88	498590	13.16	ppbv	100
41) Tetrahydrofuran	6.27	42	1397078	15.59	ppbv	99
42) Bromodichloromethane	8.06	83	2702855	12.09	ppbv	99
43) Methyl Methacrylate	8.28	69	1228641	13.91	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	5362754	12.40	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1775005	15.49	ppbv	100
46) cis-1,3-Dichloropropene	8.98	75	2092274	14.28	ppbv	95
47) 1,1,2-Trichloroethane	9.76	97	1394857	12.57	ppbv	97
48) Dibromochloromethane	10.60	129	2356027	13.14	ppbv	99
49) Bromoform	13.36	173	2017423	14.62	ppbv	99
50) 4-Methyl-2-Pentanone	9.01	43	2871305	12.95	ppbv	100
51) 2-Hexanone	10.42	43	2641585	13.63	ppbv	99
52) Tetrachloroethene	11.52	164	1316218	13.45	ppbv	97
53) Toluene	10.10	91	3919724	14.00	ppbv	99
54) 1,2-Dibromoethane	10.91	107	2215656	13.76	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.43	131	1703930	12.33	ppbv	90
57) Chlorobenzene	12.46	112	3182457	12.78	ppbv	98
58) Ethyl Benzene	13.02	91	5801761	14.22	ppbv	99
59) m/p-Xylene	13.30	91	9418970m	26.59	ppbv	
60) o-Xylene	14.00	91	4820936	13.62	ppbv	99
61) Styrene	13.84	104	1186549	17.60	ppbv	99
62) Isopropylbenzene	14.98	105	6174013	13.58	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.99	83	3260614	11.98	ppbv	100
64) n-propylbenzene	15.87	120	1585866	14.34	ppbv	96
65) tert-Butylbenzene	17.06	119	5442709	13.91	ppbv	97
66) Benzyl Chloride	17.31	91	723992m	20.54	ppbv	
67) sec-Butylbenzene	17.61	105	7834159	13.90	ppbv	99
69) p-Isopropyltoluene	17.97	119	6475974	14.83	ppbv	99
70) n-Butylbenzene	18.86	91	6694892	14.72	ppbv	99
71) 2-Chlorotoluene	15.77	91	4769816	14.51	ppbv	98
72) 4-Ethyltoluene	16.15	105	5262363	14.54	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	4746377	14.33	ppbv	100
74) 1,2,4-Trimethylbenzene	17.08	105	5033368	13.61	ppbv	97
75) 1,3-Dichlorobenzene	17.32	146	3198986	14.11	ppbv	100
76) 1,4-Dichlorobenzene	17.47	146	3210799	14.60	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	3196091	14.31	ppbv	99
78) Hexachloro-1,3-Butadiene	23.68	225	1874780	21.86	ppbv	99
79) Naphthalene	22.59	128	4433775	21.30	ppbv	98
80) Naphthalene, 2-methyl-	25.23	142	1431765	35.24	ppbv	98
81) 1,2,4-Trichlorobenzene	22.31	180	2195773	19.02	ppbv	100

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

