

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032349.D
 Acq On : 15 Aug 2018 10:38
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:22 PM

Quant Time: Aug 15 12:57:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 2
 QLast Update : Wed Aug 15 11:44:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2456238	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.35	114	4815985	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.31	117	4768167	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.65	95	3550340	9.59	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.11	85	425457	1.44	ppbv	98
3) Chlorodifluoromethane	3.05	51	459195	1.87	ppbv	100
4) Chloromethane	3.21	50	264121	1.78	ppbv	99
5) Vinyl Chloride	3.33	62	245810	1.82	ppbv	98
6) Bromomethane	3.56	94	139240	1.88	ppbv	99
7) Chloroethane	3.64	64	91253	1.90	ppbv	95
8) Dichlorotetrafluoroethane	3.26	85	571167	1.91	ppbv	99
9) Propene	3.07	41	196339	1.78	ppbv	99
10) Heptane	8.31	43	602863	1.56	ppbv	97
11) Trichlorofluoromethane	4.05	101	548811	1.94	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.60	101	374243	1.94	ppbv	98
13) Ethanol	3.70	45	53962	1.70	ppbv	96
14) Bromoethene	3.83	108	153789	1.81	ppbv	96
15) Acetone	3.95	43	481159	2.08	ppbv	98
16) 1,3-Butadiene	3.40	39	195242	1.63	ppbv	93
17) tert-Butyl alcohol	4.42	59	81049	1.10	ppbv	99
18) 1,1-Dichloroethene	4.40	96	176431	1.97	ppbv	97
19) Isopropyl Alcohol	4.07	45	321301	2.08	ppbv #	98
20) Methylene Chloride	4.46	84	176693	1.90	ppbv	99
21) Allyl Chloride	4.52	41	300721	1.90	ppbv	99
22) trans-1,2-Dichloroethene	5.01	96	181451	2.10	ppbv	98
23) Vinyl Acetate	5.21	43	827894	1.99	ppbv	99
24) 1,1-Dichloroethane	5.14	63	626720	2.10	ppbv	98
25) Ethyl Acetate	5.83	43	1046426	2.01	ppbv	99
26) Hexane	5.84	57	474633	2.02	ppbv	99
27) Carbon Disulfide	4.67	76	409736	1.92	ppbv	95
28) Methyl tert-Butyl Ether	5.17	73	648713	2.04	ppbv	100
29) Chloroform	5.90	83	636807	1.86	ppbv	94
30) Cyclohexane	7.31	84	334981	1.83	ppbv	85
31) cis-1,2-Dichloroethene	5.70	61	445194	2.04	ppbv	95
32) 1,1,1-Trichloroethane	6.68	97	627443	2.07	ppbv	98
34) 2-Butanone	5.39	43	705304	2.26	ppbv	99
35) Carbon Tetrachloride	7.20	117	613103	2.24	ppbv	96
36) Benzene	7.06	78	869900	2.05	ppbv	99
37) 1,2-Dichloroethane	6.47	62	513839	2.09	ppbv	99
38) Trichloroethene	8.02	130	303653	1.85	ppbv	99
39) 1,2-Dichloropropane	7.80	63	349459	1.64	ppbv	93
40) 1,4-Dioxane	8.03	88	112260m	1.79	ppbv	
41) Tetrahydrofuran	6.22	42	383232	2.17	ppbv	100
42) Bromodichloromethane	7.98	83	675066	1.70	ppbv	97
43) Methyl Methacrylate	8.20	69	345020	1.69	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	1616674	1.76	ppbv	99
45) t-1,3-Dichloropropene	9.48	75	434870	1.84	ppbv	96
46) cis-1,3-Dichloropropene	8.90	75	552092	1.91	ppbv	93
47) 1,1,2-Trichloroethane	9.68	97	390876	1.88	ppbv	96
48) Dibromochloromethane	10.52	129	524347	1.71	ppbv	100
49) Bromoform	13.27	173	449198	1.78	ppbv	99
50) 4-Methyl-2-Pentanone	8.94	43	1057379	1.92	ppbv	99
51) 2-Hexanone	10.34	43	679009	1.62	ppbv #	100
52) Tetrachloroethene	11.44	164	267539	1.87	ppbv	93
53) Toluene	10.01	91	1015392	2.00	ppbv	99
54) 1,2-Dibromoethane	10.82	107	517603	1.75	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.35	131	426572	2.17	ppbv #	1
57) Chlorobenzene	12.37	112	774293	2.09	ppbv	98
58) Ethyl Benzene	12.93	91	1267147	2.12	ppbv	96
59) m/p-Xylene	13.22	91	2132309m	4.19	ppbv	
60) o-Xylene	13.92	91	1054853	2.11	ppbv	99
61) Styrene	13.75	104	747097	2.03	ppbv	99
62) Isopropylbenzene	14.89	105	1491840	2.10	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.90	83	841837	2.07	ppbv	100
64) n-propylbenzene	15.79	120	382058	2.07	ppbv	93
65) tert-Butylbenzene	16.98	119	1343354	2.24	ppbv	99
66) Benzyl Chloride	17.22	91	761425	2.13	ppbv	97
67) sec-Butylbenzene	17.53	105	1973079	2.20	ppbv	99
69) p-Isopropyltoluene	17.88	119	1539037	2.21	ppbv	100
70) n-Butylbenzene	18.78	91	1651829	2.06	ppbv	97
71) 2-Chlorotoluene	15.69	91	1166354	2.10	ppbv	99
72) 4-Ethyltoluene	16.07	105	1199879	2.15	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	1142612	2.08	ppbv	97
74) 1,2,4-Trimethylbenzene	16.99	105	1234436	2.13	ppbv #	88
75) 1,3-Dichlorobenzene	17.23	146	721851	2.15	ppbv	97
76) 1,4-Dichlorobenzene	17.37	146	693571	2.15	ppbv	99
77) 1,2-Dichlorobenzene	18.05	146	703872	2.13	ppbv	100
78) Hexachloro-1,3-Butadiene	23.60	225	218627	1.88	ppbv	98
79) Naphthalene	22.49	128	786383	1.56	ppbv	98
80) Naphthalene, 2-methyl-	25.17	142	88659	0.44	ppbv	98
81) 1,2,4-Trichlorobenzene	22.22	180	439552	1.75	ppbv	99

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

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