

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032922.D
 Acq On : 7 Dec 2018 4:57
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 10:08:11 AM

Quant Time: Dec 07 06:04:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 2018
 QLast Update : Fri Dec 07 05:41:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1318889	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3216028	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3007611	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2253277	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	185000	1.023	ppbv	98
3) Chlorodifluoromethane	3.02	51	102565	0.997	ppbv	97
4) Chloromethane	3.17	50	61191	1.009	ppbv	89
5) Vinyl Chloride	3.29	62	56948	0.959	ppbv	93
6) Bromomethane	3.52	94	37203	0.966	ppbv	88
7) Chloroethane	3.61	64	20828	0.905	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	152118	1.033	ppbv	99
9) Propene	3.04	41	40279	0.978	ppbv	98
10) Heptane	8.25	43	138274	0.883	ppbv	99
11) Trichlorofluoromethane	4.01	101	163570	0.913	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	148605	1.092	ppbv	99
13) Ethanol	3.66	45	15441	1.108	ppbv	87
14) Bromoethene	3.79	108	45826	0.920	ppbv	100
15) Acetone	3.91	43	120071	1.020	ppbv	98
16) 1,3-Butadiene	3.36	39	41973	0.893	ppbv	87
17) tert-Butyl alcohol	4.38	59	32794m	1.003	ppbv	
18) 1,1-Dichloroethene	4.36	96	61428	1.039	ppbv	88
19) Isopropyl Alcohol	4.04	45	74771m	0.878	ppbv	
20) Methylene Chloride	4.41	84	62536	0.945	ppbv	94
21) Allyl Chloride	4.48	41	87619	1.009	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	64217	0.899	ppbv	87
23) Vinyl Acetate	5.16	43	182286	0.822	ppbv	98
24) 1,1-Dichloroethane	5.09	63	173867	1.018	ppbv	99
25) Ethyl Acetate	5.78	43	274357	0.988	ppbv	99
26) Hexane	5.78	57	126437	0.970	ppbv	97
27) Carbon Disulfide	4.63	76	157332m	0.954	ppbv	
28) Methyl tert-Butyl Ether	5.12	73	176644	0.845	ppbv	98
29) Chloroform	5.85	83	226055	1.044	ppbv	94
30) Cyclohexane	7.26	84	96321m	0.905	ppbv	
31) cis-1,2-Dichloroethene	5.64	61	106000	0.893	ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	210277	0.867	ppbv	98
34) 2-Butanone	5.34	43	135955	0.854	ppbv	100
35) Carbon Tetrachloride	7.14	117	236041	0.987	ppbv	93
36) Benzene	7.01	78	235681	0.935	ppbv	97
37) 1,2-Dichloroethane	6.41	62	162759	1.005	ppbv	99
38) Trichloroethene	7.97	130	95055m	0.947	ppbv	
39) 1,2-Dichloropropane	7.74	63	89477	0.969	ppbv	94
40) 1,4-Dioxane	7.99	88	33443m	0.959	ppbv	
41) Tetrahydrofuran	6.17	42	84931m	0.937	ppbv	
42) Bromodichloromethane	7.92	83	225697	1.002	ppbv	98
43) Methyl Methacrylate	8.15	69	81484	0.875	ppbv	95

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44) 2,2,4-Trimethylpentane	8.00	57	403643	0.982	ppbv	97
45) t-1,3-Dichloropropene	9.42	75	86514	0.707	ppbv	96
46) cis-1,3-Dichloropropene	8.84	75	108936	0.785	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	97465	0.893	ppbv	96
48) Dibromochloromethane	10.45	129	177199	0.879	ppbv	99
49) Bromoform	13.20	173	143385	0.847	ppbv	97
50) 4-Methyl-2-Pentanone	8.89	43	205905	0.884	ppbv	95
51) 2-Hexanone	10.29	43	139140	0.808	ppbv #	93
52) Tetrachloroethene	11.38	164	83152	0.882	ppbv	96
53) Toluene	9.95	91	235142	0.824	ppbv	99
54) 1,2-Dibromoethane	10.77	107	141011	0.866	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.29	131	143194	1.054	ppbv #	1
57) Chlorobenzene	12.31	112	240559	1.071	ppbv	97
58) Ethyl Benzene	12.87	91	315067	0.919	ppbv	94
59) m/p-Xylene	13.16	91	602433m	1.947	ppbv	
60) o-Xylene	13.86	91	289766	0.959	ppbv	100
61) Styrene	13.69	104	178878m	0.886	ppbv	
62) Isopropylbenzene	14.83	105	420332	0.980	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.84	83	218785	0.960	ppbv	98
64) n-propylbenzene	15.73	120	109136	1.009	ppbv	88
65) tert-Butylbenzene	16.91	119	409178	1.112	ppbv	94
66) Benzyl Chloride	17.16	91	188492	0.966	ppbv	100
67) sec-Butylbenzene	17.47	105	576731	1.105	ppbv	98
69) p-Isopropyltoluene	17.82	119	461359	1.113	ppbv	98
70) n-Butylbenzene	18.73	91	409995m	1.005	ppbv	
71) 2-Chlorotoluene	15.62	91	297275	0.959	ppbv	99
72) 4-Ethyltoluene	16.01	105	322234	1.010	ppbv	98
73) 1,3,5-Trimethylbenzene	16.16	105	311688	1.014	ppbv #	85
74) 1,2,4-Trimethylbenzene	16.93	105	396930	1.188	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	219609	1.122	ppbv	97
76) 1,4-Dichlorobenzene	17.31	146	197623	1.078	ppbv	97
77) 1,2-Dichlorobenzene	17.99	146	202374	1.097	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	110581m	0.948	ppbv	
79) Naphthalene	22.43	128	203655m	1.031	ppbv	
80) Naphthalene,2-methyl-	25.13	142	31901	0.722	ppbv	94
81) 1,2,4-Trichlorobenzene	22.14	180	118821m	1.140	ppbv	

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

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