

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101118\
 Data File : VL032625.D
 Acq On : 12 Oct 2018 8:53
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/12/2018 2:07:49 PM

Quant Time: Oct 12 12:18:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1291303	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2970332	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3207115m	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2322848	9.60	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.09	85	1611833	13.495	ppbv 100
3) Chlorodifluoromethane	3.03	51	939329	8.747	ppbv 94
4) Chloromethane	3.19	50	503830	8.046	ppbv 99
5) Vinyl Chloride	3.31	62	517971	8.187	ppbv 98
6) Bromomethane	3.53	94	325850	9.417	ppbv 95
7) Chloroethane	3.62	64	207579	9.208	ppbv 95
8) Dichlorotetrafluoroethane	3.24	85	1264140	9.687	ppbv 97
9) Propene	3.05	41	351915	7.553	ppbv 99
10) Heptane	8.27	43	1585688	9.279	ppbv 95
11) Trichlorofluoromethane	4.02	101	1486859	10.472	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.57	101	995334	8.576	ppbv 99
13) Ethanol	3.67	45	95894	6.847	ppbv 96
14) Bromoethene	3.80	108	417336	10.134	ppbv 98
15) Acetone	3.92	43	1005973	8.875	ppbv 99
16) 1,3-Butadiene	3.38	39	416241	9.055	ppbv 98
17) tert-Butyl alcohol	4.38	59	107895	7.575	ppbv # 100
18) 1,1-Dichloroethene	4.37	96	454524	8.362	ppbv 98
19) Isopropyl Alcohol	4.04	45	647326	8.199	ppbv 100
20) Methylene Chloride	4.43	84	401607	7.317	ppbv 97
21) Allyl Chloride	4.50	41	749762	8.093	ppbv 95
22) trans-1,2-Dichloroethene	4.98	96	503494	9.829	ppbv 100
23) Vinyl Acetate	5.18	43	1838700	9.180	ppbv # 97
24) 1,1-Dichloroethane	5.11	63	1547081	9.276	ppbv 99
25) Ethyl Acetate	5.79	43	2591702	9.423	ppbv 99
26) Hexane	5.80	57	1202962	9.683	ppbv 99
27) Carbon Disulfide	4.64	76	1338617	10.023	ppbv 99
28) Methyl tert-Butyl Ether	5.14	73	1595015	10.307	ppbv 97
29) Chloroform	5.88	83	1990968	10.445	ppbv 99
30) Cyclohexane	7.27	84	1035001	10.232	ppbv 93
31) cis-1,2-Dichloroethene	5.67	61	1103141	9.323	ppbv 99
32) 1,1,1-Trichloroethane	6.65	97	1853379	9.124	ppbv 98
34) 2-Butanone	5.35	43	1568256	8.866	ppbv 98
35) Carbon Tetrachloride	7.16	117	2084079	10.097	ppbv 97
36) Benzene	7.03	78	2420324	10.083	ppbv 98
37) 1,2-Dichloroethane	6.44	62	1555155	10.750	ppbv 97
38) Trichloroethene	7.99	130	969426	10.551	ppbv 98
39) 1,2-Dichloropropane	7.77	63	953241	8.812	ppbv 95
40) 1,4-Dioxane	7.98	88	342759	10.334	ppbv 78
41) Tetrahydrofuran	6.17	42	847070	8.815	ppbv 92
42) Bromodichloromethane	7.95	83	2278427	10.512	ppbv 97
43) Methyl Methacrylate	8.16	69	1050941	10.480	ppbv 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.02	57	4457980	9.503	ppbv	99
45) t-1,3-Dichloropropene	9.44	75	1301981	10.438	ppbv	97
46) cis-1,3-Dichloropropene	8.87	75	1559865	10.661	ppbv	98
47) 1,1,2-Trichloroethane	9.64	97	1029697	8.570	ppbv	95
48) Dibromochloromethane	10.48	129	1978070	10.470	ppbv	99
49) Bromoform	13.23	173	1565127	10.842	ppbv	100
50) 4-Methyl-2-Pentanone	8.90	43	2562306	9.216	ppbv	99
51) 2-Hexanone	10.30	43	2200980	9.572	ppbv	99
52) Tetrachloroethene	11.40	164	880718	10.537	ppbv	97
53) Toluene	9.98	91	3117798	10.658	ppbv	100
54) 1,2-Dibromoethane	10.79	107	1724316	10.090	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.31	131	1436871	9.967	ppbv #	60
57) Chlorobenzene	12.33	112	2391938	9.259	ppbv	98
58) Ethyl Benzene	12.89	91	3987092	10.249	ppbv	97
59) m/p-Xylene	13.18	91	6663251m	19.251	ppbv	
60) o-Xylene	13.88	91	3319778	9.851	ppbv	99
61) Styrene	13.71	104	2345617	10.640	ppbv	98
62) Isopropylbenzene	14.86	105	4608148	9.669	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.87	83	2488974	8.314	ppbv	99
64) n-propylbenzene	15.75	120	1201462	9.813	ppbv	96
65) tert-Butylbenzene	16.94	119	3951259	9.673	ppbv	98
66) Benzyl Chloride	17.19	91	2362450	10.035	ppbv	99
67) sec-Butylbenzene	17.49	105	5793536	9.540	ppbv	99
69) p-Isopropyltoluene	17.85	119	4617908	9.845	ppbv	99
70) n-Butylbenzene	18.74	91	5042232	9.841	ppbv	99
71) 2-Chlorotoluene	15.65	91	3651116	10.059	ppbv	99
72) 4-Ethyltoluene	16.03	105	3790428	10.363	ppbv	99
73) 1,3,5-Trimethylbenzene	16.19	105	3629511	10.210	ppbv	97
74) 1,2,4-Trimethylbenzene	16.96	105	3680301	9.615	ppbv	95
75) 1,3-Dichlorobenzene	17.20	146	2040643	8.640	ppbv	100
76) 1,4-Dichlorobenzene	17.34	146	2007295	9.282	ppbv	100
77) 1,2-Dichlorobenzene	18.02	146	2027689	9.129	ppbv	100
78) Hexachloro-1,3-Butadiene	23.57	225	1211537	14.534	ppbv	100
79) Naphthalene	22.44	128	3032127	10.984	ppbv	99
80) Naphthalene, 2-methyl-	25.14	142	881963	13.609	ppbv	98
81) 1,2,4-Trichlorobenzene	22.17	180	1430581	10.111	ppbv	99

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

