

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033332.D
 Acq On : 15 Mar 2019 14:18
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:27 AM

Quant Time: Mar 15 14:51:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
 QLast Update : Fri Mar 15 14:26:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	816797	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1886767	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2281279	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	1656731	9.55	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2039883	13.794	ppbv	98
3) Chlorodifluoromethane	3.01	51	1325601	14.179	ppbv	98
4) Chloromethane	3.17	50	702310	13.821	ppbv	98
5) Vinyl Chloride	3.29	62	687205	13.331	ppbv	99
6) Bromomethane	3.52	94	447762	14.323	ppbv	98
7) Chloroethane	3.60	64	261153	14.126	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1714772	13.606	ppbv	100
9) Propene	3.04	41	575451	13.729	ppbv	100
10) Heptane	8.26	43	1549831	14.647	ppbv	100
11) Trichlorofluoromethane	4.01	101	2013882	14.339	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1299155	14.122	ppbv	99
13) Ethanol	3.65	45	138587	9.509	ppbv	98
14) Bromoethene	3.79	108	572046	14.701	ppbv	99
15) Acetone	3.90	43	1306983	10.451	ppbv	100
16) 1,3-Butadiene	3.36	39	619702	14.114	ppbv	93
17) tert-Butyl alcohol	4.36	59	239331	13.417	ppbv	99
18) 1,1-Dichloroethene	4.35	96	614874	15.091	ppbv	97
19) Isopropyl Alcohol	4.03	45	814767	12.986	ppbv	100
20) Methylene Chloride	4.41	84	509051	12.706	ppbv	99
21) Allyl Chloride	4.48	41	916219	14.809	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	635015	15.689	ppbv	96
23) Vinyl Acetate	5.16	43	2196751	15.041	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1504028	14.451	ppbv	99
25) Ethyl Acetate	5.77	43	2574467	14.224	ppbv	100
26) Hexane	5.79	57	1139056	13.754	ppbv	99
27) Carbon Disulfide	4.62	76	1492491	15.974	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	1779092	14.917	ppbv	100
29) Chloroform	5.86	83	1931691	14.311	ppbv	99
30) Cyclohexane	7.25	84	979044	14.930	ppbv	98
31) cis-1,2-Dichloroethene	5.65	61	1231642	15.006	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	1919135	14.324	ppbv	99
34) 2-Butanone	5.33	43	1708424	14.276	ppbv	99
35) Carbon Tetrachloride	7.14	117	2085038	15.312	ppbv	99
36) Benzene	7.01	78	2502811	14.841	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1518235	14.439	ppbv	100
38) Trichloroethene	7.97	130	935926	14.100	ppbv	98
39) 1,2-Dichloropropane	7.74	63	922734	14.379	ppbv	98
40) 1,4-Dioxane	7.96	88	319612	13.597	ppbv	95
41) Tetrahydrofuran	6.15	42	993446	14.970	ppbv	99
42) Bromodichloromethane	7.93	83	2175151	15.178	ppbv	98
43) Methyl Methacrylate	8.14	69	1027940	15.634	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4026806	14.237	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1435136	17.815	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1593265	16.837	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1027887	14.890	ppbv	96
48) Dibromochloromethane	10.46	129	1882487	15.958	ppbv	100
49) Bromoform	13.21	173	1906989	17.859	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2584545	14.766	ppbv	99
51) 2-Hexanone	10.28	43	2067749	14.832	ppbv #	100
52) Tetrachloroethene	11.38	164	1045990	15.354	ppbv	97
53) Toluene	9.96	91	2947052	15.320	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1852891	16.468	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.29	131	1477490	14.433	ppbv #	71
57) Chlorobenzene	12.31	112	2459402	13.573	ppbv	99
58) Ethyl Benzene	12.88	91	4672240	14.475	ppbv	99
59) m/p-Xylene	13.16	91	7771155m	28.262	ppbv	
60) o-Xylene	13.86	91	3809368	14.145	ppbv	100
61) Styrene	13.70	104	2884635	15.334	ppbv	99
62) Isopropylbenzene	14.84	105	5295329	14.227	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2621168	12.871	ppbv	100
64) n-propylbenzene	15.73	120	1365706	14.536	ppbv	97
65) tert-Butylbenzene	16.92	119	4747906	13.842	ppbv	99
66) Benzyl Chloride	17.17	91	2784209	19.894	ppbv	100
67) sec-Butylbenzene	17.47	105	6769777	13.811	ppbv	99
69) p-Isopropyltoluene	17.83	119	5563718	13.946	ppbv	99
70) n-Butylbenzene	18.72	91	5887497	13.816	ppbv	100
71) 2-Chlorotoluene	15.63	91	4153112	14.012	ppbv	100
72) 4-Ethyltoluene	16.01	105	4461213	14.517	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	4295785	14.116	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	4373522	13.654	ppbv	99
75) 1,3-Dichlorobenzene	17.18	146	2522908	13.541	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2555168	13.927	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2480222	13.758	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1345814	12.403	ppbv	99
79) Naphthalene	22.42	128	4362187	13.944	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	2039868	13.525	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	2164175	13.342	ppbv	99

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

