

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033440.D
 Acq On : 25 Mar 2019 14:28
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:49 AM

Quant Time: Mar 25 14:59:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	690465	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1607772	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1820648	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1363502	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1580738	13.019	ppbv	95
3) Chlorodifluoromethane	3.01	51	1164204	14.690	ppbv	98
4) Chloromethane	3.17	50	616429	14.364	ppbv	96
5) Vinyl Chloride	3.29	62	613649	13.861	ppbv	98
6) Bromomethane	3.51	94	394046	14.974	ppbv	98
7) Chloroethane	3.60	64	236411	15.282	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1550139	14.996	ppbv	99
9) Propene	3.04	41	491389	13.890	ppbv	100
10) Heptane	8.25	43	1447626	16.498	ppbv	100
11) Trichlorofluoromethane	4.00	101	1881079	15.558	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1276301	15.910	ppbv	99
13) Ethanol	3.65	45	108854	6.454	ppbv	94
14) Bromoethene	3.79	108	517545	15.478	ppbv	99
15) Acetone	3.90	43	1152327	10.736	ppbv	98
16) 1,3-Butadiene	3.36	39	506377	14.525	ppbv	98
17) tert-Butyl alcohol	4.36	59	184132	12.190	ppbv	98
18) 1,1-Dichloroethene	4.35	96	562219	15.327	ppbv	99
19) Isopropyl Alcohol	4.02	45	598107	11.715	ppbv	99
20) Methylene Chloride	4.41	84	475382	13.581	ppbv	99
21) Allyl Chloride	4.48	41	850668	16.338	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	584282	16.437	ppbv	97
23) Vinyl Acetate	5.16	43	1916836	15.435	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1326631	14.791	ppbv	99
25) Ethyl Acetate	5.77	43	2341874	15.010	ppbv	100
26) Hexane	5.78	57	1032727	14.806	ppbv	99
27) Carbon Disulfide	4.62	76	1447458	18.026	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1539394	14.859	ppbv	99
29) Chloroform	5.85	83	1786032	15.638	ppbv	100
30) Cyclohexane	7.25	84	876049	15.665	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1100924	15.786	ppbv	94
32) 1,1,1-Trichloroethane	6.62	97	1790846	15.970	ppbv	99
34) 2-Butanone	5.33	43	1543220	14.615	ppbv	99
35) Carbon Tetrachloride	7.14	117	1909733	16.848	ppbv	98
36) Benzene	7.01	78	2163147	15.034	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1390295	15.281	ppbv	99
38) Trichloroethene	7.97	130	889795	16.342	ppbv	95
39) 1,2-Dichloropropane	7.74	63	829223	15.389	ppbv	98
40) 1,4-Dioxane	7.96	88	254576	13.417	ppbv #	1
41) Tetrahydrofuran	6.15	42	886169	15.727	ppbv	99
42) Bromodichloromethane	7.92	83	2051588	16.819	ppbv	100
43) Methyl Methacrylate	8.14	69	956846	17.079	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	3747886	15.726	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1347704	19.484	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1483381	18.213	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	972805	16.340	ppbv	94
48) Dibromochloromethane	10.46	129	1814817	18.176	ppbv	100
49) Bromoform	13.21	173	1675272	17.687	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2388920	16.018	ppbv	100
51) 2-Hexanone	10.27	43	1918107	16.670	ppbv #	100
52) Tetrachloroethene	11.38	164	894365	14.920	ppbv	98
53) Toluene	9.95	91	2777257	16.987	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1596699	15.865	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1253780	15.394	ppbv #	73
57) Chlorobenzene	12.31	112	2098630	14.554	ppbv	99
58) Ethyl Benzene	12.87	91	3916340	15.206	ppbv	98
59) m/p-Xylene	13.16	91	6655837m	30.071	ppbv	
60) o-Xylene	13.86	91	3224006	14.930	ppbv	99
61) Styrene	13.69	104	2441729	16.150	ppbv	100
62) Isopropylbenzene	14.83	105	4560623	15.192	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2242225	14.364	ppbv	100
64) n-propylbenzene	15.73	120	1188254	15.642	ppbv	96
65) tert-Butylbenzene	16.92	119	4111595	15.213	ppbv	98
66) Benzyl Chloride	17.16	91	2482201	22.224	ppbv	99
67) sec-Butylbenzene	17.47	105	5863044	15.309	ppbv	99
69) p-Isopropyltoluene	17.82	119	4855149	15.517	ppbv	99
70) n-Butylbenzene	18.72	91	5136557	15.396	ppbv	100
71) 2-Chlorotoluene	15.62	91	3580246	15.321	ppbv	99
72) 4-Ethyltoluene	16.01	105	3825977	15.602	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	3659073	15.317	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	3783889	14.956	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	2243789	15.047	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2267585	15.706	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2218744	15.710	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1679115	19.831	ppbv	100
79) Naphthalene	22.42	128	3923764	16.094	ppbv	97
80) Naphthalene, 2-methyl-	25.12	142	1770271	15.313	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1980769	15.932	ppbv	99

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

