

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020419\
 Data File : VL033157.D
 Acq On : 4 Feb 2019 15:04
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020419

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 10:27:41 AM

Quant Time: Feb 05 01:33:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Feb 05 2019
 QLast Update : Mon Feb 04 14:41:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1133662	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3158337	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3153596m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2449677	10.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1840619	11.026	ppbv	98
3) Chlorodifluoromethane	3.01	51	1168292	9.253	ppbv	98
4) Chloromethane	3.17	50	648841	9.132	ppbv	100
5) Vinyl Chloride	3.29	62	632458	9.019	ppbv	98
6) Bromomethane	3.52	94	375944	9.514	ppbv	99
7) Chloroethane	3.60	64	229768	9.637	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1426830	9.325	ppbv	97
9) Propene	3.04	41	589364	9.290	ppbv	100
10) Heptane	8.25	43	1824000	9.230	ppbv	99
11) Trichlorofluoromethane	4.00	101	1556827	9.652	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1008216	9.628	ppbv	98
13) Ethanol	3.64	45	144131	5.763	ppbv	99
14) Bromoethene	3.79	108	484423	10.035	ppbv	99
15) Acetone	3.90	43	1185139	8.781	ppbv	99
16) 1,3-Butadiene	3.36	39	546771	9.979	ppbv	98
17) tert-Butyl alcohol	4.35	59	276720	9.283	ppbv	99
18) 1,1-Dichloroethene	4.35	96	481232	9.986	ppbv	98
19) Isopropyl Alcohol	4.02	45	910425	9.496	ppbv	# 46
20) Methylene Chloride	4.41	84	410464	8.827	ppbv	99
21) Allyl Chloride	4.48	41	824311	10.143	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	468005	9.834	ppbv	97
23) Vinyl Acetate	5.15	43	2196368	10.003	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1461118	9.753	ppbv	99
25) Ethyl Acetate	5.77	43	2428400	8.706	ppbv	100
26) Hexane	5.78	57	1107483	8.487	ppbv	99
27) Carbon Disulfide	4.62	76	1178041	10.486	ppbv	97
28) Methyl tert-Butyl Ether	5.11	73	1822054	9.596	ppbv	100
29) Chloroform	5.85	83	1711445	8.668	ppbv	98
30) Cyclohexane	7.25	84	1146268	9.149	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1166522	9.380	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1916916	9.849	ppbv	# 83
34) 2-Butanone	5.33	43	1715637	8.637	ppbv	100
35) Carbon Tetrachloride	7.14	117	1921547m	9.500	ppbv	
36) Benzene	7.01	78	2761456	8.649	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1494399	9.164	ppbv	99
38) Trichloroethene	7.96	130	980644	8.457	ppbv	97
39) 1,2-Dichloropropane	7.74	63	1106841	9.038	ppbv	97
40) 1,4-Dioxane	7.95	88	398961	8.352	ppbv	99
41) Tetrahydrofuran	6.15	42	1190484	9.646	ppbv	99
42) Bromodichloromethane	7.92	83	2216910	9.290	ppbv	100
43) Methyl Methacrylate	8.14	69	1154861	9.093	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4620819	8.624	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1493259	9.527	ppbv	95
46) cis-1,3-Dichloropropene	8.84	75	1714611	9.095	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	1075529	8.181	ppbv	95
48) Dibromochloromethane	10.45	129	1735944	8.872	ppbv	99
49) Bromoform	13.20	173	1351541	8.369	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2810097	7.816	ppbv	100
51) 2-Hexanone	10.27	43	2243562	7.440	ppbv	100
52) Tetrachloroethene	11.37	164	908477	8.187	ppbv	96
53) Toluene	9.95	91	3158714	8.330	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1670300	8.391	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1221236	8.957	ppbv #	54
57) Chlorobenzene	12.30	112	2244822	8.538	ppbv	96
58) Ethyl Benzene	12.87	91	4253556	8.573	ppbv	100
59) m/p-Xylene	13.13	91	6917173m	17.025	ppbv	
60) o-Xylene	13.85	91	3238734	8.638	ppbv	96
61) Styrene	13.69	104	2567068	8.556	ppbv	98
62) Isopropylbenzene	14.83	105	4525121	8.455	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2098967	7.803	ppbv	100
64) n-propylbenzene	15.72	120	1157395	8.287	ppbv	94
65) tert-Butylbenzene	16.91	119	3679254	7.664	ppbv	96
66) Benzyl Chloride	17.16	91	1879382	8.620	ppbv	98
67) sec-Butylbenzene	17.46	105	5311900	7.741	ppbv	100
69) p-Isopropyltoluene	17.82	119	4366055	7.699	ppbv	98
70) n-Butylbenzene	18.72	91	4605674	7.464	ppbv	98
71) 2-Chlorotoluene	15.62	91	3464614	8.166	ppbv	97
72) 4-Ethyltoluene	16.00	105	3663893	8.176	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3433858	7.948	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	3358798	7.622	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	1828582	7.516	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1858994	7.607	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1833837	7.578	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1347901	11.197	ppbv	99
79) Naphthalene	22.42	128	3905036	7.568	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1596850	6.070	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1744821	7.461	ppbv	99

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

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