

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050119\
 Data File : VL033614.D
 Acq On : 1 May 2019 11:52
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 4:03:44 PM

Quant Time: May 02 04:13:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 04:13:11 2019
 QLast Update : Thu May 02 04:03:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	1126620	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2740188	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	4765714m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2406567	6.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	65.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	1469189	8.653	ppbv	100
3) Chlorodifluoromethane	3.00	51	1219849	8.458	ppbv	100
4) Chloromethane	3.16	50	660257	8.999	ppbv	100
5) Vinyl Chloride	3.28	62	658327	8.552	ppbv	100
6) Bromomethane	3.51	94	411292	9.079	ppbv	100
7) Chloroethane	3.59	64	244373	9.523	ppbv	100
8) Dichlorotetrafluoroethane	3.21	85	1639106	8.874	ppbv	100
9) Propene	3.02	41	118438	3.071	ppbv	100
10) Heptane	8.24	43	1447783	10.151	ppbv	100
11) Trichlorofluoromethane	3.99	101	1816538	9.001	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1221162	8.823	ppbv	100
13) Ethanol	3.63	45	129525	7.407	ppbv	100
14) Bromoethene	3.78	108	538699	9.482	ppbv	100
15) Acetone	3.89	43	1130157	8.240	ppbv	100
16) 1,3-Butadiene	3.35	39	590609	9.568	ppbv	100
17) tert-Butyl alcohol	4.34	59	1149551	9.707	ppbv	100
18) 1,1-Dichloroethene	4.34	96	547726	9.106	ppbv	100
19) Isopropyl Alcohol	4.01	45	892775	9.483	ppbv	100
20) Methylene Chloride	4.40	84	449750	8.414	ppbv	100
21) Allyl Chloride	4.47	41	831848	9.641	ppbv	100
22) trans-1,2-Dichloroethene	4.95	96	545919	9.267	ppbv	100
23) Vinyl Acetate	5.14	43	2058682	10.093	ppbv	100
24) 1,1-Dichloroethane	5.08	63	1394856	9.186	ppbv	100
25) Ethyl Acetate	5.76	43	2449535	9.410	ppbv	100
26) Hexane	5.77	57	1058042	9.652	ppbv	100
27) Carbon Disulfide	4.61	76	1378891	10.387	ppbv	100
28) Methyl tert-Butyl Ether	5.10	73	1847632	9.996	ppbv	100
29) Chloroform	5.84	83	1828402	9.101	ppbv	100
30) Cyclohexane	7.24	84	942349	9.916	ppbv	100
31) cis-1,2-Dichloroethene	5.63	61	1100897	9.948	ppbv	100
32) 1,1,1-Trichloroethane	6.61	97	1902524	9.040	ppbv	100
34) 2-Butanone	5.32	43	1625221	9.661	ppbv	100
35) Carbon Tetrachloride	7.12	117	2039441	9.395	ppbv	100
36) Benzene	7.00	78	2272614	9.734	ppbv	100
37) 1,2-Dichloroethane	6.40	62	1403302	9.045	ppbv	100
38) Trichloroethene	7.95	130	906057	9.687	ppbv	100
39) 1,2-Dichloropropane	7.73	63	865132	9.826	ppbv	100
40) 1,4-Dioxane	7.94	88	367374	10.274	ppbv	100
41) Tetrahydrofuran	6.14	42	899934	10.017	ppbv	100
42) Bromodichloromethane	7.91	83	2038243	9.708	ppbv	100
43) Methyl Methacrylate	8.13	69	925760	10.471	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3873202	9.519	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1436290	12.234	ppbv	100
46) cis-1,3-Dichloropropene	8.82	75	1489005m	11.243	ppbv	
47) 1,1,2-Trichloroethane	9.61	97	1500837	13.070	ppbv	100
48) Dibromochloromethane	10.44	129	2771374	14.263	ppbv	100
49) Bromoform	13.19	173	1561379	10.486	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	2625171	9.959	ppbv	100
51) 2-Hexanone	10.26	43	3347315	14.464	ppbv	100
52) Tetrachloroethene	11.36	164	916613	10.210	ppbv	100
53) Toluene	9.94	91	4206515	14.277	ppbv	100
54) 1,2-Dibromoethane	10.74	107	1653413m	10.473	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.27	131	1826186	8.775	ppbv #	57
57) Chlorobenzene	12.29	112	3157065	8.518	ppbv	100
58) Ethyl Benzene	12.85	91	3780231	6.816	ppbv	100
59) m/p-Xylene	13.14	91	6193308m	12.918	ppbv	
60) o-Xylene	13.84	91	3181185	6.602	ppbv	100
61) Styrene	13.68	104	2434004	7.382	ppbv	100
62) Isopropylbenzene	14.82	105	4310249	6.693	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2214496	5.868	ppbv	100
64) n-propylbenzene	15.71	120	1121897	6.716	ppbv	100
65) tert-Butylbenzene	16.90	119	3940553	6.543	ppbv	100
66) Benzyl Chloride	17.15	91	2145895	7.843	ppbv	100
67) sec-Butylbenzene	17.45	105	5607742	6.630	ppbv	100
69) p-Isopropyltoluene	17.81	119	4780186	6.792	ppbv	100
70) n-Butylbenzene	18.70	91	4971673	6.494	ppbv	100
71) 2-Chlorotoluene	15.61	91	3266680	6.781	ppbv	100
72) 4-Ethyltoluene	15.99	105	3792762	6.907	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3623870	6.713	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	3816203	6.344	ppbv	100
75) 1,3-Dichlorobenzene	17.15	146	2261140	6.039	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	2316590	6.485	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	2186012	6.264	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1398033	5.256	ppbv	100
79) Naphthalene	22.40	128	3857150	6.939	ppbv	100
80) Naphthalene, 2-methyl-	25.10	142	1923492	7.975	ppbv	100
81) 1,2,4-Trichlorobenzene	22.13	180	2070656	6.430	ppbv	100

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

