

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062619\
 Data File : VL033964.D
 Acq On : 26 Jun 2019 11:44
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 6/27/2019 3:00:36 PM

Quant Time: Jun 27 04:08:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	943377	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.27	114	2204365	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.21	117	2387152m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.55	95	1809785	9.23	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	1616354	10.559	ppbv 100
3) Chlorodifluoromethane	3.00	51	1129729	10.173	ppbv 98
4) Chloromethane	3.16	50	590029	9.314	ppbv 98
5) Vinyl Chloride	3.28	62	605536	10.302	ppbv 98
6) Bromomethane	3.50	94	393831	10.086	ppbv 90
7) Chloroethane	3.59	64	230965	9.936	ppbv 94
8) Dichlorotetrafluoroethane	3.21	85	1587656	9.705	ppbv 99
9) Propene	3.03	41	446545	10.746	ppbv 100
10) Heptane	8.22	43	1145515	10.906	ppbv 100
11) Trichlorofluoromethane	3.99	101	1917222	9.706	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1304243	9.770	ppbv 99
13) Ethanol	3.64	45	155699	11.516	ppbv 97
14) Bromoethene	3.77	108	522055	10.495	ppbv 99
15) Acetone	3.89	43	1415159	10.286	ppbv 99
16) 1,3-Butadiene	3.35	39	533222	10.182	ppbv 100
17) tert-Butyl alcohol	4.34	59	1252180	11.642	ppbv 100
18) 1,1-Dichloroethene	4.34	96	569834	10.106	ppbv 95
19) Isopropyl Alcohol	4.01	45	947422	12.054	ppbv 99
20) Methylene Chloride	4.39	84	474504	8.844	ppbv 99
21) Allyl Chloride	4.46	41	807371	10.330	ppbv 100
22) trans-1,2-Dichloroethene	4.94	96	599212	10.082	ppbv 99
23) Vinyl Acetate	5.14	43	1816631	11.359	ppbv 99
24) 1,1-Dichloroethane	5.07	63	1235267	9.931	ppbv 99
25) Ethyl Acetate	5.75	43	2071315	9.885	ppbv 100
26) Hexane	5.76	57	916812	9.610	ppbv 99
27) Carbon Disulfide	4.60	76	1421738	10.727	ppbv 98
28) Methyl tert-Butyl Ether	5.09	73	1701169	11.792	ppbv 100
29) Chloroform	5.83	83	1588943	9.725	ppbv 97
30) Cyclohexane	7.22	84	756261	11.219	ppbv 100
31) cis-1,2-Dichloroethene	5.62	61	935111	11.178	ppbv 98
32) 1,1,1-Trichloroethane	6.60	97	1676177	10.634	ppbv 100
34) 2-Butanone	5.31	43	1363885	10.967	ppbv 100
35) Carbon Tetrachloride	7.11	117	1747368	10.260	ppbv 97
36) Benzene	6.98	78	1831770	10.878	ppbv 99
37) 1,2-Dichloroethane	6.39	62	1226592	9.850	ppbv 99
38) Trichloroethene	7.94	130	764849	11.666	ppbv 96
39) 1,2-Dichloropropane	7.71	63	696723	10.721	ppbv 94
40) 1,4-Dioxane	7.93	88	284547	10.735	ppbv 87
41) Tetrahydrofuran	6.12	42	731359	11.587	ppbv 99
42) Bromodichloromethane	7.89	83	1731733	10.406	ppbv 99
43) Methyl Methacrylate	8.11	69	744810	11.827	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.96	57	3148415	10.514	ppbv	100
45) t-1,3-Dichloropropene	9.39	75	947777	11.469	ppbv	97
46) cis-1,3-Dichloropropene	8.81	75	1086313	11.474	ppbv	98
47) 1,1,2-Trichloroethane	9.59	97	782027	10.094	ppbv	97
48) Dibromochloromethane	10.43	129	1487079	10.681	ppbv	100
49) Bromoform	13.17	173	1317429	10.719	ppbv	99
50) 4-Methyl-2-Pentanone	8.84	43	1983679	10.697	ppbv	100
51) 2-Hexanone	10.25	43	1622414	11.204	ppbv #	100
52) Tetrachloroethene	11.34	164	711698	12.012	ppbv	98
53) Toluene	9.92	91	2136649	11.466	ppbv	99
54) 1,2-Dibromoethane	10.73	107	1238200	10.602	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.25	131	998062	9.571	ppbv	99
57) Chlorobenzene	12.27	112	1679831	9.396	ppbv	97
58) Ethyl Benzene	12.83	91	2952612	10.971	ppbv	98
59) m/p-Xylene	13.12	91	5022099m	20.520	ppbv	
60) o-Xylene	13.82	91	2570326	10.172	ppbv	100
61) Styrene	13.66	104	1808647	11.060	ppbv	99
62) Isopropylbenzene	14.80	105	3456990	10.150	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.81	83	1806961	9.500	ppbv	99
64) n-propylbenzene	15.69	120	896451	10.278	ppbv	98
65) tert-Butylbenzene	16.88	119	3205357	10.171	ppbv	100
66) Benzyl Chloride	17.13	91	1455930	9.117	ppbv	99
67) sec-Butylbenzene	17.43	105	4444848	10.054	ppbv	100
69) p-Isopropyltoluene	17.79	119	3729797	10.140	ppbv	100
70) n-Butylbenzene	18.69	91	3881802	9.635	ppbv	100
71) 2-Chlorotoluene	15.59	91	2679547	10.679	ppbv	99
72) 4-Ethyltoluene	15.97	105	3003577	10.445	ppbv	99
73) 1,3,5-Trimethylbenzene	16.13	105	2894096	10.217	ppbv	99
74) 1,2,4-Trimethylbenzene	16.90	105	3036021	9.300	ppbv	97
75) 1,3-Dichlorobenzene	17.14	146	1752454	8.571	ppbv	99
76) 1,4-Dichlorobenzene	17.28	146	1697252	9.041	ppbv	100
77) 1,2-Dichlorobenzene	17.96	146	1667071	8.836	ppbv	99
78) Hexachloro-1,3-Butadiene	23.51	225	1281825	8.698	ppbv	99
79) Naphthalene	22.37	128	2419255	9.271	ppbv	99
80) Naphthalene, 2-methyl-	25.09	142	757150	7.272	ppbv #	94
81) 1,2,4-Trichlorobenzene	22.10	180	1350150	8.195	ppbv	100

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

