

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012720\
 Data File : VL034557.D
 Acq On : 27 Jan 2020 10:31
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 1/29/2020 10:26:31 AM

Quant Time: Jan 28 12:47:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 09 03:01:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1052232	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2175109	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2224056	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1865256	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1471083	8.865	ppbv	98
3) Chlorodifluoromethane	2.95	51	1179716	9.410	ppbv	98
4) Chloromethane	3.11	50	720045	9.669	ppbv	97
5) Vinyl Chloride	3.23	62	682135	9.354	ppbv	99
6) Bromomethane	3.45	94	380721	10.488	ppbv	97
7) Chloroethane	3.53	64	259201	10.200	ppbv	93
8) Dichlorotetrafluoroethane	3.16	85	1645306	9.886	ppbv	99
9) Propene	2.98	41	473034	9.787	ppbv	100
10) Heptane	8.15	43	1280914	10.262	ppbv	99
11) Trichlorofluoromethane	3.93	101	1943395	10.120	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1290378	10.565	ppbv	99
13) Ethanol	3.58	45	101340m	7.556	ppbv	
14) Bromoethene	3.72	108	536316	10.857	ppbv	98
15) Acetone	3.83	43	1383216	9.007	ppbv	99
16) 1,3-Butadiene	3.30	39	610922	10.344	ppbv	98
17) tert-Butyl alcohol	4.28	59	1095470	8.909	ppbv	100
18) 1,1-Dichloroethene	4.28	96	562802	10.578	ppbv	99
19) Isopropyl Alcohol	3.95	45	794476	7.992	ppbv #	98
20) Methylene Chloride	4.33	84	503643	8.335	ppbv	98
21) Allyl Chloride	4.40	41	942787	10.682	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	595941	11.012	ppbv	96
23) Vinyl Acetate	5.07	43	1790492	10.099	ppbv #	97
24) 1,1-Dichloroethane	5.01	63	1401559	9.840	ppbv	99
25) Ethyl Acetate	5.68	43	2346136	9.783	ppbv	100
26) Hexane	5.69	57	1019995	10.094	ppbv	98
27) Carbon Disulfide	4.54	76	1507555	11.803	ppbv	100
28) Methyl tert-Butyl Ether	5.03	73	1832868	10.860	ppbv	100
29) Chloroform	5.76	83	1730359	9.896	ppbv	98
30) Cyclohexane	7.15	84	803291	10.695	ppbv	97
31) cis-1,2-Dichloroethene	5.56	61	1087976	10.565	ppbv	99
32) 1,1,1-Trichloroethane	6.53	97	1816935	10.011	ppbv	99
34) 2-Butanone	5.24	43	1506081	9.689	ppbv	99
35) Carbon Tetrachloride	7.04	117	1982772	10.052	ppbv	94
36) Benzene	6.91	78	1906289	10.054	ppbv	99
37) 1,2-Dichloroethane	6.32	62	1528734	9.929	ppbv	100
38) Trichloroethene	7.86	130	816392	10.659	ppbv	100
39) 1,2-Dichloropropane	7.64	63	773693	9.924	ppbv	90
40) 1,4-Dioxane	7.85	88	270795	8.582	ppbv #	93
41) Tetrahydrofuran	6.05	42	817842	10.257	ppbv	97
42) Bromodichloromethane	7.82	83	1938050	10.229	ppbv	96
43) Methyl Methacrylate	8.04	69	824361	10.659	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3390710	9.667	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1186345	11.908	ppbv	99
46) cis-1,3-Dichloropropene	8.74	75	1293156	11.355	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	842920	9.808	ppbv	98
48) Dibromochloromethane	10.35	129	1631038	10.947	ppbv	98
49) Bromoform	13.10	173	1482928	10.994	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	2249533	9.970	ppbv	99
51) 2-Hexanone	10.17	43	1874401	10.291	ppbv #	99
52) Tetrachloroethene	11.27	164	762464	10.305	ppbv	98
53) Toluene	9.84	91	2244236	10.774	ppbv	100
54) 1,2-Dibromoethane	10.65	107	1305485	10.438	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.18	131	1092312	10.174	ppbv	98
57) Chlorobenzene	12.19	112	1800349	9.812	ppbv	99
58) Ethyl Benzene	12.76	91	3116824	10.391	ppbv	99
59) m/p-Xylene	13.04	91	5288594m	20.163	ppbv	
60) o-Xylene	13.74	91	2664985	10.126	ppbv	100
61) Styrene	13.58	104	1966817	10.930	ppbv	99
62) Isopropylbenzene	14.72	105	3480901	10.111	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	1879922	8.904	ppbv	98
64) n-propylbenzene	15.62	120	905220	10.297	ppbv	100
65) tert-Butylbenzene	16.81	119	3168257	10.186	ppbv	100
66) Benzyl Chloride	17.05	91	1658820	12.169	ppbv	99
67) sec-Butylbenzene	17.36	105	4296656	9.837	ppbv	100
69) p-Isopropyltoluene	17.71	119	3620598	10.220	ppbv	100
70) n-Butylbenzene	18.61	91	3733440	9.767	ppbv	100
71) 2-Chlorotoluene	15.51	91	2700019	10.099	ppbv	99
72) 4-Ethyltoluene	15.90	105	3073315	10.435	ppbv	100
73) 1,3,5-Trimethylbenzene	16.05	105	2928465	10.135	ppbv	96
74) 1,2,4-Trimethylbenzene	16.82	105	3050565	9.869	ppbv	94
75) 1,3-Dichlorobenzene	17.06	146	1744942	9.425	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	1738653	9.754	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1668816	9.592	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1593693	9.650	ppbv	99
79) Naphthalene	22.28	128	2796900	12.013	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	1436393	22.272	ppbv #	94
81) 1,2,4-Trichlorobenzene	22.01	180	1683523	11.106	ppbv	99

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

