

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
 Data File : VL036272.D
 Acq On : 28 Jan 2021 13:30
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 2/1/2021 1:51:58 PM

Quant Time: Jan 29 02:50:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1464373	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3281704	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3234615m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2651645	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	1662818	8.471 ppbv	100
3) Chlorodifluoromethane	2.98	51	1781211	9.904 ppbv	98
4) Chloromethane	3.13	50	853321	9.600 ppbv	98
5) Vinyl Chloride	3.25	62	821283	9.764 ppbv	97
6) Bromomethane	3.47	94	467349	9.939 ppbv	97
7) Chloroethane	3.55	64	298433	10.303 ppbv	96
8) Dichlorotetrafluoroethane	3.18	85	1916376	10.077 ppbv	99
9) Propene	3.00	41	809254	9.449 ppbv	98
10) Heptane	8.12	43	2089964	9.831 ppbv	99
11) Trichlorofluoromethane	3.95	101	2057059	10.308 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1296002	10.712 ppbv	98
13) Ethanol	3.60	45	144845	10.771 ppbv	97
14) Bromoethene	3.74	108	554477	10.065 ppbv	100
15) Acetone	3.85	43	1676374	9.347 ppbv	96
16) 1,3-Butadiene	3.32	39	877924	10.048 ppbv	98
17) tert-Butyl alcohol	4.29	59	1681366	11.361 ppbv	100
18) 1,1-Dichloroethene	4.28	96	576383	10.276 ppbv	94
19) Isopropyl Alcohol	3.97	45	1155941	10.691 ppbv	99
20) Methylene Chloride	4.34	84	498718	8.713 ppbv	98
21) Allyl Chloride	4.41	41	1025717	10.507 ppbv	95
22) trans-1,2-Dichloroethene	4.88	96	564578	10.894 ppbv	99
23) Vinyl Acetate	5.07	43	2327698	10.711 ppbv #	98
24) 1,1-Dichloroethane	5.01	63	1613722	10.251 ppbv	98
25) Ethyl Acetate	5.68	43	3520588	9.778 ppbv	100
26) Hexane	5.68	57	1409396	9.402 ppbv	99
27) Carbon Disulfide	4.55	76	1484027	12.380 ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	2037792	10.052 ppbv	97
29) Chloroform	5.75	83	2181136	10.162 ppbv	96
30) Cyclohexane	7.13	84	1190449	10.392 ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1485880	10.370 ppbv	93
32) 1,1,1-Trichloroethane	6.51	97	2201326	10.604 ppbv	99
34) 2-Butanone	5.24	43	2214250	9.162 ppbv	98
35) Carbon Tetrachloride	7.01	117	2226446	10.738 ppbv	98
36) Benzene	6.89	78	2893409	9.622 ppbv	98
37) 1,2-Dichloroethane	6.30	62	1820669	10.062 ppbv	99
38) Trichloroethene	7.83	130	982162	8.819 ppbv	95
39) 1,2-Dichloropropane	7.61	63	1202377	9.848 ppbv	99
40) 1,4-Dioxane	7.83	88	370615	8.392 ppbv #	1
41) Tetrahydrofuran	6.05	42	1347200	9.646 ppbv	98
42) Bromodichloromethane	7.79	83	2439171	10.725 ppbv	100
43) Methyl Methacrylate	8.01	69	1318293	10.316 ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5008320	9.068	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1447143	11.923	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1758211	11.273	ppbv	98
47) 1,1,2-Trichloroethane	9.48	97	1176432	10.072	ppbv	95
48) Dibromochloromethane	10.31	129	1909125	11.172	ppbv	98
49) Bromoform	13.05	173	1602239	11.233	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	3502807	9.721	ppbv	100
51) 2-Hexanone	10.14	43	2879920	10.131	ppbv	99
52) Tetrachloroethene	11.22	164	964424	8.704	ppbv	99
53) Toluene	9.81	91	3309199	9.838	ppbv	100
54) 1,2-Dibromoethane	10.61	107	1732388	10.006	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.13	131	1401886	9.712	ppbv #	93
57) Chlorobenzene	12.15	112	2319378	9.139	ppbv	98
58) Ethyl Benzene	12.72	91	4482351	9.338	ppbv	99
59) m/p-Xylene	13.00	91	7555746m	18.320	ppbv	
60) o-Xylene	13.69	91	3497024	8.796	ppbv	100
61) Styrene	13.53	104	2497856	9.950	ppbv	99
62) Isopropylbenzene	14.67	105	5274072	8.923	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	2484468	8.393	ppbv	99
64) n-propylbenzene	15.56	120	1352777	9.315	ppbv	100
65) tert-Butylbenzene	16.75	119	4455692	8.896	ppbv	100
66) Benzyl Chloride	17.00	91	1672381	13.069	ppbv	99
67) sec-Butylbenzene	17.30	105	6483774	8.721	ppbv	100
69) p-Isopropyltoluene	17.66	119	5251024	8.905	ppbv	100
70) n-Butylbenzene	18.55	91	5654613	9.000	ppbv	99
71) 2-Chlorotoluene	15.46	91	4158591	8.951	ppbv	100
72) 4-Ethyltoluene	15.84	105	4029864	8.982	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	3894248	9.106	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	3957404	9.021	ppbv	97
75) 1,3-Dichlorobenzene	17.00	146	2102778	8.937	ppbv	99
76) 1,4-Dichlorobenzene	17.15	146	2107517	9.067	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	2081229	9.056	ppbv	100
78) Hexachloro-1,3-Butadiene	23.38	225	1530451	8.327	ppbv	99
79) Naphthalene	22.21	128	2962122	11.552	ppbv	98
80) Naphthalene, 2-methyl-	24.98	142	1095072	20.014	ppbv	94
81) 1,2,4-Trichlorobenzene	21.94	180	1508281	10.075	ppbv	99

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

