

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022520\
 Data File : VL034673.D
 Acq On : 25 Feb 2020 15:09
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 2/26/2020 12:38:58 PM

Quant Time: Feb 25 15:42:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 25 2020
 QLast Update : Tue Feb 25 12:01:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1148353	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2442664	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2657547	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2144842	9.55	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1856257	7.339	ppbv	99
3) Chlorodifluoromethane	2.95	51	1706453	12.298	ppbv	99
4) Chloromethane	3.11	50	1124281	13.243	ppbv	98
5) Vinyl Chloride	3.22	62	1058750	13.056	ppbv	100
6) Bromomethane	3.44	94	530805	12.584	ppbv	95
7) Chloroethane	3.53	64	388422	12.880	ppbv	98
8) Dichlorotetrafluoroethane	3.15	85	2144896	10.849	ppbv	98
9) Propene	2.97	41	793413	14.686	ppbv	97
10) Heptane	8.14	43	2206406	16.228	ppbv	99
11) Trichlorofluoromethane	3.93	101	2223633	9.678	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1570130	10.474	ppbv	98
13) Ethanol	3.58	45	170433	11.777	ppbv	99
14) Bromoethene	3.71	108	717132	12.195	ppbv	100
15) Acetone	3.83	43	1845219	10.933	ppbv	98
16) 1,3-Butadiene	3.29	39	945857	14.113	ppbv	99
17) tert-Butyl alcohol	4.28	59	1381607	11.131	ppbv	99
18) 1,1-Dichloroethene	4.27	96	743999	11.757	ppbv	92
19) Isopropyl Alcohol	3.95	45	1309705	13.298	ppbv	100
20) Methylene Chloride	4.32	84	677284	10.539	ppbv	97
21) Allyl Chloride	4.39	41	1334884	12.735	ppbv	100
22) trans-1,2-Dichloroethene	4.87	96	746119	11.258	ppbv	96
23) Vinyl Acetate	5.07	43	2773263	14.403	ppbv	100
24) 1,1-Dichloroethane	5.00	63	2084733	12.968	ppbv	98
25) Ethyl Acetate	5.67	43	3642788	13.332	ppbv	98
26) Hexane	5.68	57	1654326	14.455	ppbv	99
27) Carbon Disulfide	4.53	76	1983006	12.841	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	2360920	12.096	ppbv	99
29) Chloroform	5.75	83	2504352	12.375	ppbv	99
30) Cyclohexane	7.14	84	1381611	16.291	ppbv	97
31) cis-1,2-Dichloroethene	5.55	61	1718409	14.452	ppbv	96
32) 1,1,1-Trichloroethane	6.52	97	2340726	10.772	ppbv	99
34) 2-Butanone	5.24	43	2444450	13.782	ppbv	98
35) Carbon Tetrachloride	7.03	117	2463774	10.550	ppbv	99
36) Benzene	6.91	78	3231456	14.876	ppbv	98
37) 1,2-Dichloroethane	6.32	62	2029451	11.198	ppbv	100
38) Trichloroethene	7.85	130	1214967	13.269	ppbv	97
39) 1,2-Dichloropropane	7.63	63	1342740	14.911	ppbv	98
40) 1,4-Dioxane	7.85	88	474481	13.707	ppbv #	1
41) Tetrahydrofuran	6.05	42	1411567	15.256	ppbv	98
42) Bromodichloromethane	7.81	83	2719331	12.191	ppbv	99
43) Methyl Methacrylate	8.03	69	1414406	16.189	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	5486404	13.921	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	1791724	15.661	ppbv	97
46) cis-1,3-Dichloropropene	8.73	75	2029752	15.610	ppbv	99
47) 1,1,2-Trichloroethane	9.50	97	1372820	14.076	ppbv	99
48) Dibromochloromethane	10.34	129	2269403	12.698	ppbv	100
49) Bromoform	13.09	173	2001720	12.757	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	3680200	14.550	ppbv	99
51) 2-Hexanone	10.16	43	3110679	15.623	ppbv #	98
52) Tetrachloroethene	11.26	164	1112996	12.755	ppbv	98
53) Toluene	9.83	91	3701476	15.511	ppbv	98
54) 1,2-Dibromoethane	10.65	107	1985943	13.588	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.16	131	1468331	11.191	ppbv #	64
57) Chlorobenzene	12.19	112	2738685	12.524	ppbv	97
58) Ethyl Benzene	12.75	91	4865876	13.683	ppbv	96
59) m/p-Xylene	13.03	91	8007360m	25.472	ppbv	
60) o-Xylene	13.74	91	3935957	12.467	ppbv	99
61) Styrene	13.57	104	3173474	15.076	ppbv	100
62) Isopropylbenzene	14.71	105	5148123	12.584	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	2820036	11.549	ppbv	99
64) n-propylbenzene	15.61	120	1405523	13.353	ppbv	91
65) tert-Butylbenzene	16.79	119	4439225	11.977	ppbv	99
66) Benzyl Chloride	17.04	91	2190252	14.093	ppbv	100
67) sec-Butylbenzene	17.34	105	6245015	12.260	ppbv	98
69) p-Isopropyltoluene	17.70	119	5080082	12.283	ppbv	98
70) n-Butylbenzene	18.60	91	5396823	12.292	ppbv	98
71) 2-Chlorotoluene	15.50	91	4100862	13.205	ppbv	98
72) 4-Ethyltoluene	15.89	105	4599918	13.264	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	4325406	12.764	ppbv	95
74) 1,2,4-Trimethylbenzene	16.82	105	4345478	11.584	ppbv	98
75) 1,3-Dichlorobenzene	17.05	146	2466185	11.417	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	2493573	11.713	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	2417388	11.650	ppbv	100
78) Hexachloro-1,3-Butadiene	23.43	225	1815476	9.149	ppbv	99
79) Naphthalene	22.27	128	4022037	13.619	ppbv	100
80) Naphthalene, 2-methyl-	25.02	142	1079017	9.497	ppbv	99
81) 1,2,4-Trichlorobenzene	22.00	180	2243703	12.323	ppbv	99

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

