

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022520\
 Data File : VL034669.D
 Acq On : 25 Feb 2020 12:35
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 2/26/2020 12:38:43 PM

Quant Time: Feb 25 13:32:06 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	5.66	49	1159790	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2438188	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2437341	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2015639	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	202521	0.793	ppbv	91
3) Chlorodifluoromethane	2.95	51	154468	1.102	ppbv	96
4) Chloromethane	3.11	50	92779	1.082	ppbv	100
5) Vinyl Chloride	3.22	62	85195	1.040	ppbv #	86
6) Bromomethane	3.44	94	43619	1.024	ppbv	92
7) Chloroethane	3.52	64	29589	0.971	ppbv	98
8) Dichlorotetrafluoroethane	3.15	85	200271	1.003	ppbv	98
9) Propene	2.97	41	62978	1.154	ppbv	91
10) Heptane	8.13	43	156008	1.136	ppbv	98
11) Trichlorofluoromethane	3.93	101	202340	0.872	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.46	101	137499	0.908	ppbv	98
13) Ethanol	3.58	45	21155m	1.447	ppbv	
14) Bromoethene	3.71	108	54140	0.912	ppbv	96
15) Acetone	3.83	43	178499	1.047	ppbv	99
16) 1,3-Butadiene	3.29	39	67521	0.998	ppbv	99
17) tert-Butyl alcohol	4.28	59	128488	1.025	ppbv	98
18) 1,1-Dichloroethene	4.27	96	61166	0.957	ppbv	92
19) Isopropyl Alcohol	3.95	45	125865	1.265	ppbv #	94
20) Methylene Chloride	4.33	84	65079	1.003	ppbv	91
21) Allyl Chloride	4.39	41	99817	0.943	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	57351m	0.857	ppbv	
23) Vinyl Acetate	5.06	43	201400	1.036	ppbv	97
24) 1,1-Dichloroethane	5.00	63	178892	1.102	ppbv #	93
25) Ethyl Acetate	5.67	43	290703	1.053	ppbv	100
26) Hexane	5.68	57	131038	1.134	ppbv	99
27) Carbon Disulfide	4.53	76	140004	0.898	ppbv	95
28) Methyl tert-Butyl Ether	5.02	73	186465m	0.946	ppbv	
29) Chloroform	5.75	83	209754	1.026	ppbv	99
30) Cyclohexane	7.14	84	94561	1.104	ppbv	93
31) cis-1,2-Dichloroethene	5.54	61	121290	1.010	ppbv	91
32) 1,1,1-Trichloroethane	6.51	97	187354m	0.854	ppbv	
34) 2-Butanone	5.24	43	184030	1.040	ppbv	100
35) Carbon Tetrachloride	7.02	117	192715	0.827	ppbv #	92
36) Benzene	6.90	78	243634	1.124	ppbv	93
37) 1,2-Dichloroethane	6.31	62	165004	0.912	ppbv	99
38) Trichloroethene	7.85	130	96313m	1.054	ppbv	
39) 1,2-Dichloropropane	7.62	63	100459	1.118	ppbv	96
40) 1,4-Dioxane	7.86	88	39604m	1.146	ppbv	
41) Tetrahydrofuran	6.06	42	88905	0.963	ppbv	99
42) Bromodichloromethane	7.81	83	207165	0.930	ppbv	93
43) Methyl Methacrylate	8.03	69	86510	0.992	ppbv	99

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44) 2,2,4-Trimethylpentane	7.88	57	445921	1.134	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	95594	0.837	ppbv #	87
46) cis-1,3-Dichloropropene	8.72	75	114263	0.880	ppbv	92
47) 1,1,2-Trichloroethane	9.50	97	105741m	1.086	ppbv	
48) Dibromochloromethane	10.33	129	156340	0.876	ppbv	97
49) Bromoform	13.08	173	133440	0.852	ppbv	98
50) 4-Methyl-2-Pentanone	8.76	43	254789	1.009	ppbv	98
51) 2-Hexanone	10.17	43	189292	0.952	ppbv #	99
52) Tetrachloroethene	11.25	164	88138m	1.012	ppbv	
53) Toluene	9.83	91	251417	1.056	ppbv	97
54) 1,2-Dibromoethane	10.64	107	142610	0.978	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.16	131	116065	0.965	ppbv #	1
57) Chlorobenzene	12.18	112	226585m	1.130	ppbv	
58) Ethyl Benzene	12.74	91	346428	1.062	ppbv	96
59) m/p-Xylene	13.03	91	623283m	2.162	ppbv	
60) o-Xylene	13.73	91	322197	1.113	ppbv	95
61) Styrene	13.56	104	206032	1.067	ppbv	99
62) Isopropylbenzene	14.71	105	414661m	1.105	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.72	83	240839	1.075	ppbv	98
64) n-propylbenzene	15.60	120	101819	1.055	ppbv	83
65) tert-Butylbenzene	16.79	119	364955	1.074	ppbv	97
66) Benzyl Chloride	17.03	91	112503	0.789	ppbv	99
67) sec-Butylbenzene	17.34	105	525564	1.125	ppbv	98
69) p-Isopropyltoluene	17.69	119	409596	1.080	ppbv	99
70) n-Butylbenzene	18.60	91	437864	1.087	ppbv	97
71) 2-Chlorotoluene	15.49	91	311828	1.095	ppbv	96
72) 4-Ethyltoluene	15.88	105	352306m	1.108	ppbv	
73) 1,3,5-Trimethylbenzene	16.03	105	332135	1.069	ppbv	92
74) 1,2,4-Trimethylbenzene	16.80	105	360544	1.048	ppbv #	90
75) 1,3-Dichlorobenzene	17.04	146	208848	1.054	ppbv	98
76) 1,4-Dichlorobenzene	17.18	146	208169m	1.066	ppbv	
77) 1,2-Dichlorobenzene	17.86	146	202086	1.062	ppbv	99
78) Hexachloro-1,3-Butadiene	23.43	225	168055	0.923	ppbv	99
79) Naphthalene	22.27	128	239721m	0.885	ppbv	
80) Naphthalene, 2-methyl-	25.02	142	37741	0.362	ppbv	99
81) 1,2,4-Trichlorobenzene	21.99	180	153197m	0.917	ppbv	

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

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