

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022620\
 Data File : VL034679.D
 Acq On : 26 Feb 2020 4:23
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:24 PM

Quant Time: Feb 26 06:38:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 2020
 QLast Update : Wed Feb 26 03:37:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1121067	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2348486	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2294995	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1921042	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	108141	0.624 ppbv	98
3) Chlorodifluoromethane	2.95	51	64073	0.472 ppbv	97
4) Chloromethane	3.11	50	33739	0.413 ppbv	92
5) Vinyl Chloride	3.23	62	32879	0.433 ppbv	97
6) Bromomethane	3.44	94	20534	0.518 ppbv #	77
7) Chloroethane	3.53	64	13510	0.484 ppbv #	81
8) Dichlorotetrafluoroethane	3.16	85	85950	0.494 ppbv	98
9) Propene	2.97	41	25958	0.473 ppbv	100
10) Heptane	8.13	43	59201	0.410 ppbv	96
11) Trichlorofluoromethane	3.93	101	82348	0.468 ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.47	101	60194	0.496 ppbv	98
13) Ethanol	3.59	45	11820m	0.699 ppbv	
14) Bromoethene	3.71	108	23519	0.470 ppbv #	97
15) Acetone	3.84	43	70409	0.463 ppbv	95
16) 1,3-Butadiene	3.29	39	30439	0.470 ppbv	98
17) tert-Butyl alcohol	4.29	59	56944m	0.492 ppbv	
18) 1,1-Dichloroethene	4.27	96	25369	0.458 ppbv	89
19) Isopropyl Alcohol	3.96	45	46769	0.447 ppbv #	91
20) Methylene Chloride	4.33	84	26647m	0.478 ppbv	
21) Allyl Chloride	4.40	41	43075	0.465 ppbv	96
22) trans-1,2-Dichloroethene	4.88	96	25304	0.466 ppbv #	85
23) Vinyl Acetate	5.07	43	79875	0.424 ppbv #	98
24) 1,1-Dichloroethane	5.00	63	75145	0.479 ppbv #	95
25) Ethyl Acetate	5.68	43	113176	0.431 ppbv	98
26) Hexane	5.68	57	52024	0.447 ppbv	95
27) Carbon Disulfide	4.54	76	52943	0.400 ppbv #	94
28) Methyl tert-Butyl Ether	5.03	73	70346	0.418 ppbv	95
29) Chloroform	5.74	83	89055	0.480 ppbv	89
30) Cyclohexane	7.14	84	37523m	0.421 ppbv	
31) cis-1,2-Dichloroethene	5.54	61	48296	0.428 ppbv	89
32) 1,1,1-Trichloroethane	6.51	97	74234	0.437 ppbv	97
34) 2-Butanone	5.25	43	73496	0.441 ppbv	100
35) Carbon Tetrachloride	7.02	117	76450	0.427 ppbv	88
36) Benzene	6.89	78	101942	0.461 ppbv	94
37) 1,2-Dichloroethane	6.31	62	65433	0.452 ppbv	100
38) Trichloroethene	7.85	130	37118	0.442 ppbv	88
39) 1,2-Dichloropropane	7.62	63	40136	0.441 ppbv #	82
40) 1,4-Dioxane	7.88	88	15207m	0.447 ppbv	
41) Tetrahydrofuran	6.07	42	35026m	0.402 ppbv	
42) Bromodichloromethane	7.80	83	79939	0.426 ppbv #	93
43) Methyl Methacrylate	8.03	69	37896	0.437 ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	171753	0.432	ppbv	97
45) t-1,3-Dichloropropene	9.29	75	35202m	0.347	ppbv	
46) cis-1,3-Dichloropropene	8.72	75	45332m	0.382	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	40886m	0.425	ppbv	
48) Dibromochloromethane	10.32	129	57733m	0.391	ppbv	
49) Bromoform	13.07	173	47706m	0.369	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	93491m	0.395	ppbv	
51) 2-Hexanone	10.17	43	67036m	0.359	ppbv	
52) Tetrachloroethene	11.25	164	34210	0.438	ppbv	94
53) Toluene	9.83	91	92883	0.390	ppbv	98
54) 1,2-Dibromoethane	10.64	107	57789	0.431	ppbv	82
56) 1,1,1,2-Tetrachloroethane	12.16	131	55558m	0.554	ppbv	
57) Chlorobenzene	12.18	112	90323	0.476	ppbv	93
58) Ethyl Benzene	12.74	91	126751	0.415	ppbv	93
59) m/p-Xylene	13.02	91	234199m	0.874	ppbv	
60) o-Xylene	13.72	91	119259	0.446	ppbv	97
61) Styrene	13.56	104	60789	0.332	ppbv	93
62) Isopropylbenzene	14.71	105	173736m	0.490	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.71	83	96702m	0.455	ppbv	
64) n-propylbenzene	15.60	120	45129m	0.502	ppbv	
65) tert-Butylbenzene	16.79	119	142938m	0.462	ppbv	
66) Benzyl Chloride	17.03	91	42156m	0.353	ppbv	
67) sec-Butylbenzene	17.33	105	208052m	0.471	ppbv	
69) p-Isopropyltoluene	17.69	119	171880	0.490	ppbv	97
70) n-Butylbenzene	18.60	91	187722	0.500	ppbv	95
71) 2-Chlorotoluene	15.49	91	130577m	0.480	ppbv	
72) 4-Ethyltoluene	15.88	105	120342	0.407	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.04	105	120220m	0.429	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	144351	0.478	ppbv #	91
75) 1,3-Dichlorobenzene	17.04	146	86928	0.491	ppbv	97
76) 1,4-Dichlorobenzene	17.18	146	86322m	0.494	ppbv	
77) 1,2-Dichlorobenzene	17.86	146	82979	0.486	ppbv	97
78) Hexachloro-1,3-Butadiene	23.42	225	77519m	0.555	ppbv	
79) Naphthalene	22.27	128	109293m	0.476	ppbv	
80) Naphthalene, 2-methyl-	25.01	142	31022	0.641	ppbv	93
81) 1,2,4-Trichlorobenzene	22.00	180	75032m	0.535	ppbv	

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

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