

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034779.D
 Acq On : 4 Mar 2020 3:19
 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

apatel
 3/4/2020 4:45:06 PM

Quant Time: Mar 04 06:24:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1067405	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2240610	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2179161	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1875021	10.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	112450	0.668 ppbv	99
3) Chlorodifluoromethane	2.96	51	68911	0.596 ppbv	97
4) Chloromethane	3.12	50	35441	0.553 ppbv	90
5) Vinyl Chloride	3.23	62	32945	0.523 ppbv	97
6) Bromomethane	3.46	94	20223	0.548 ppbv	86
7) Chloroethane	3.54	64	13356m	0.573 ppbv	
8) Dichlorotetrafluoroethane	3.16	85	87993	0.592 ppbv	99
9) Propene	2.99	41	25333	0.527 ppbv	97
10) Heptane	8.15	43	54574	0.440 ppbv	95
11) Trichlorofluoromethane	3.94	101	87148	0.591 ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.48	101	60859	0.587 ppbv	97
13) Ethanol	3.60	45	11392m	0.752 ppbv	
14) Bromoethene	3.73	108	22367	0.515 ppbv	83
15) Acetone	3.85	43	76838	0.631 ppbv	99
16) 1,3-Butadiene	3.31	39	29740	0.526 ppbv	98
17) tert-Butyl alcohol	4.30	59	58682m	0.628 ppbv	
18) 1,1-Dichloroethene	4.29	96	26070	0.560 ppbv	78
19) Isopropyl Alcohol	3.98	45	42997	0.592 ppbv #	91
20) Methylene Chloride	4.34	84	27125	0.601 ppbv #	88
21) Allyl Chloride	4.41	41	41719	0.523 ppbv	93
22) trans-1,2-Dichloroethene	4.89	96	24828	0.552 ppbv	87
23) Vinyl Acetate	5.09	43	78781	0.476 ppbv #	97
24) 1,1-Dichloroethane	5.02	63	74494	0.565 ppbv	99
25) Ethyl Acetate	5.70	43	114328	0.530 ppbv	99
26) Hexane	5.69	57	48127	0.485 ppbv	88
27) Carbon Disulfide	4.55	76	53988	0.485 ppbv #	81
28) Methyl tert-Butyl Ether	5.05	73	72619	0.514 ppbv	98
29) Chloroform	5.76	83	90406	0.572 ppbv	86
30) Cyclohexane	7.16	84	33813m	0.440 ppbv	
31) cis-1,2-Dichloroethene	5.56	61	49626	0.508 ppbv #	89
32) 1,1,1-Trichloroethane	6.53	97	79798	0.538 ppbv	96
34) 2-Butanone	5.26	43	69882	0.494 ppbv	100
35) Carbon Tetrachloride	7.04	117	81448	0.542 ppbv #	85
36) Benzene	6.92	78	95236	0.493 ppbv #	89
37) 1,2-Dichloroethane	6.33	62	71944	0.586 ppbv	98
38) Trichloroethene	7.86	130	34370	0.461 ppbv	87
39) 1,2-Dichloropropane	7.64	63	39712m	0.518 ppbv	
40) 1,4-Dioxane	7.90	88	13693m	0.525 ppbv	
41) Tetrahydrofuran	6.09	42	31451m	0.424 ppbv	
42) Bromodichloromethane	7.82	83	83110m	0.517 ppbv	
43) Methyl Methacrylate	8.05	69	34643	0.427 ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.90	57	160034m	0.474	ppbv	
45) t-1,3-Dichloropropene	9.32	75	31126m	0.353	ppbv	
46) cis-1,3-Dichloropropene	8.74	75	41484m	0.392	ppbv	
47) 1,1,2-Trichloroethane	9.52	97	42130m	0.533	ppbv	
48) Dibromochloromethane	10.35	129	57986m	0.470	ppbv	
49) Bromoform	13.10	173	49215m	0.458	ppbv	
50) 4-Methyl-2-Pentanone	8.79	43	94260	0.470	ppbv	96
51) 2-Hexanone	10.19	43	66213m	0.419	ppbv	
52) Tetrachloroethene	11.27	164	31455m	0.442	ppbv	
53) Toluene	9.84	91	80570	0.392	ppbv	98
54) 1,2-Dibromoethane	10.66	107	56425m	0.478	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.18	131	49557m	0.529	ppbv	
57) Chlorobenzene	12.19	112	92703	0.575	ppbv #	95
58) Ethyl Benzene	12.76	91	119815	0.452	ppbv #	75
59) m/p-Xylene	13.05	91	227904m	0.991	ppbv	
60) o-Xylene	13.74	91	114497m	0.500	ppbv	
61) Styrene	13.58	104	57261m	0.390	ppbv	
62) Isopropylbenzene	14.73	105	173283	0.518	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.74	83	97133m	0.544	ppbv	
64) n-propylbenzene	15.61	120	40595m	0.471	ppbv	
65) tert-Butylbenzene	16.81	119	133451	0.461	ppbv	89
66) Benzyl Chloride	17.06	91	36108m	0.344	ppbv	
67) sec-Butylbenzene	17.36	105	197778	0.474	ppbv	98
69) p-Isopropyltoluene	17.72	119	154349m	0.449	ppbv	
70) n-Butylbenzene	18.62	91	170876	0.456	ppbv	98
71) 2-Chlorotoluene	15.52	91	116294	0.448	ppbv	97
72) 4-Ethyltoluene	15.90	105	118595m	0.464	ppbv	
73) 1,3,5-Trimethylbenzene	16.06	105	116407	0.473	ppbv	90
74) 1,2,4-Trimethylbenzene	16.82	105	133757m	0.491	ppbv	
75) 1,3-Dichlorobenzene	17.07	146	83830m	0.533	ppbv	
76) 1,4-Dichlorobenzene	17.20	146	79115m	0.504	ppbv	
77) 1,2-Dichlorobenzene	17.88	146	79485m	0.524	ppbv	
78) Hexachloro-1,3-Butadiene	23.45	225	68602m	0.525	ppbv	
79) Naphthalene	22.30	128	70553m	0.294	ppbv	
80) Naphthalene, 2-methyl-	25.03	142	13428	0.181	ppbv	97
81) 1,2,4-Trichlorobenzene	22.02	180	53727m	0.374	ppbv	

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

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