

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012422\
 Data File : VL038256.D
 Acq On : 24 Jan 2022 11:21
 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

Quant Time: Jan 24 12:02:13 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012422A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Jan 24 11:15:25 2022

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 01/25/2022
 Supervised By : Mahesh Dadoda 01/26/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	818572	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2228548	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1916916	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1445521	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	96281	0.624 ppbv	96
3) Chlorodifluoromethane	3.00	51	87021	0.506 ppbv	99
4) Chloromethane	3.15	50	30294	0.508 ppbv #	86
5) Vinyl Chloride	3.27	62	26644	0.444 ppbv	93
6) Bromomethane	3.48	94	15357	0.503 ppbv	95
7) Chloroethane	3.56	64	10169	0.504 ppbv #	84
8) Dichlorotetrafluoroethane	3.20	85	72800	0.497 ppbv	97
9) Propene	3.02	41	27213	0.456 ppbv	85
10) Heptane	8.13	43	70336	0.464 ppbv	98
11) Trichlorofluoromethane	3.96	101	67493	0.476 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.50	101	55803m	0.522 ppbv	
13) Ethanol	3.64	45	2702m	0.267 ppbv	
14) Bromoethene	3.75	108	19688m	0.462 ppbv	
15) Acetone	3.88	43	40200m	0.489 ppbv	
16) 1,3-Butadiene	3.34	39	27045m	0.483 ppbv	
17) tert-Butyl alcohol	4.33	59	44642m	0.495 ppbv	
18) 1,1-Dichloroethene	4.29	96	23030m	0.491 ppbv	
19) Isopropyl Alcohol	4.00	45	25377m	0.495 ppbv	
20) Methylene Chloride	4.35	84	25571m	0.551 ppbv	
21) Allyl Chloride	4.42	41	31580	0.454 ppbv #	85
22) trans-1,2-Dichloroethene	4.90	96	22824	0.477 ppbv	84
23) Vinyl Acetate	5.09	43	56387m	0.507 ppbv	
24) 1,1-Dichloroethane	5.01	63	47970	0.482 ppbv	96
25) Ethyl Acetate	5.70	43	101004	0.454 ppbv #	95
26) Hexane	5.70	57	49788	0.446 ppbv	95
27) Carbon Disulfide	4.56	76	52026	0.529 ppbv	96
28) Methyl tert-Butyl Ether	5.05	73	49079	0.437 ppbv	93
29) Chloroform	5.76	83	78206	0.472 ppbv	95
30) Cyclohexane	7.13	84	40857	0.413 ppbv	96
31) cis-1,2-Dichloroethene	5.55	61	47346m	0.541 ppbv	
32) 1,1,1-Trichloroethane	6.52	97	80104m	0.487 ppbv	
34) 2-Butanone	5.27	43	36098	0.539 ppbv	99
35) Carbon Tetrachloride	7.02	117	78426	0.570 ppbv	99
36) Benzene	6.89	78	97296	0.468 ppbv	97
37) 1,2-Dichloroethane	6.31	62	57415	0.550 ppbv	98
38) Trichloroethene	7.84	130	38263m	0.484 ppbv	
39) 1,2-Dichloropropane	7.61	63	41885m	0.524 ppbv	
40) 1,4-Dioxane	7.87	88	10350m	0.445 ppbv	
41) Tetrahydrofuran	6.09	42	24417m	0.498 ppbv	
42) Bromodichloromethane	7.80	83	87851m	0.592 ppbv	
43) Methyl Methacrylate	8.02	69	32926m	0.460 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	182768	0.518	ppbv	96
45) t-1,3-Dichloropropene	9.28	75	23959m	0.453	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	35559m	0.485	ppbv	
47) 1,1,2-Trichloroethane	9.48	97	41635	0.501	ppbv	90
48) Dibromochloromethane	10.30	129	67132m	0.575	ppbv	
49) Bromoform	13.04	173	44619	0.538	ppbv	98
50) 4-Methyl-2-Pentanone	8.78	43	63392m	0.521	ppbv	
51) 2-Hexanone	10.16	43	26191m	0.449	ppbv	
52) Tetrachloroethene	11.22	164	34626	0.451	ppbv	86
53) Toluene	9.81	91	106074	0.442	ppbv	99
54) 1,2-Dibromoethane	10.61	107	56245m	0.478	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.13	131	45750	0.574	ppbv #	1
57) Chlorobenzene	12.14	112	82149	0.494	ppbv	95
58) Ethyl Benzene	12.71	91	149709m	0.503	ppbv	
59) m/p-Xylene	13.00	91	254627m	1.001	ppbv	
60) o-Xylene	13.69	91	119373	0.506	ppbv	99
61) Styrene	13.53	104	47821	0.400	ppbv	98
62) Isopropylbenzene	14.67	105	156525	0.473	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.68	83	87404m	0.482	ppbv	
64) n-propylbenzene	15.56	120	34619	0.421	ppbv	76
65) tert-Butylbenzene	16.75	119	126847m	0.435	ppbv	
66) Benzyl Chloride	16.98	91	4728m	0.435	ppbv	
67) sec-Butylbenzene	17.30	105	176150	0.440	ppbv	99
69) p-Isopropyltoluene	17.66	119	131682	0.409	ppbv	95
70) n-Butylbenzene	18.55	91	122356	0.400	ppbv	99
71) 2-Chlorotoluene	15.45	91	114699	0.466	ppbv	97
72) 4-Ethyltoluene	15.84	105	114204	0.421	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.00	105	106560	0.439	ppbv	91
74) 1,2,4-Trimethylbenzene	16.77	105	117435m	0.460	ppbv	
75) 1,3-Dichlorobenzene	16.99	146	63433m	0.460	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	61600m	0.450	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	62411m	0.473	ppbv	
78) Hexachloro-1,3-Butadiene	23.38	225	43634m	0.536	ppbv	
79) Naphthalene	22.21	128	38468m	0.292	ppbv	
81) 1,2,4-Trichlorobenzene	21.93	180	25755m	0.342	ppbv	

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

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