

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030822\
 Data File : VL038556.D
 Acq On : 8 Mar 2022 13:03
 Operator : SY/AP
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Quant Time: Mar 08 20:34:20 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030822A

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

QLast Update : Tue Mar 08 13:53:01 2022

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/14/2022
 Supervised By : Mahesh Dadoda 03/14/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	882443	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2324161	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2049512	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1570018	9.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.04	85	85416	0.61	ppbv	99
3) Chlorodifluoromethane	2.98	51	85748	0.55	ppbv	98
4) Chloromethane	3.14	50	31746	0.59	ppbv	93
5) Vinyl Chloride	3.26	62	27740	0.49	ppbv	99
6) Bromomethane	3.47	94	16819m	0.56	ppbv	
7) Chloroethane	3.56	64	9961m	0.55	ppbv	
8) Dichlorotetrafluoroethane	3.18	85	72283	0.56	ppbv	100
9) Propene	3.01	41	28291	0.55	ppbv	90
10) Heptane	8.11	43	60991	0.49	ppbv	91
11) Trichlorofluoromethane	3.95	101	64313	0.48	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	47889m	0.49	ppbv	
13) Ethanol	3.61	45	4059m	0.79	ppbv	
14) Bromoethene	3.73	108	18304	0.47	ppbv	83
15) Acetone	3.86	43	34394m	0.46	ppbv	
16) 1,3-Butadiene	3.33	39	25108	0.50	ppbv	97
17) tert-Butyl alcohol	4.30	59	37773m	0.50	ppbv	
18) 1,1-Dichloroethene	4.28	96	22147m	0.51	ppbv	
19) Isopropyl Alcohol	3.98	45	24167m	0.56	ppbv	
20) Methylene Chloride	4.34	84	22381m	0.60	ppbv	
21) Allyl Chloride	4.41	41	32726m	0.52	ppbv	
22) trans-1,2-Dichloroethene	4.87	96	22487	0.52	ppbv #	87
23) Vinyl Acetate	5.07	43	44382	0.45	ppbv	97
24) 1,1-Dichloroethane	5.00	63	43713m	0.49	ppbv	
25) Ethyl Acetate	5.68	43	103391	0.51	ppbv	97
26) Hexane	5.68	57	48889	0.54	ppbv	88
27) Carbon Disulfide	4.54	76	49112m	0.48	ppbv	
28) Methyl tert-Butyl Ether	5.04	73	39660	0.43	ppbv	96
29) Chloroform	5.74	83	82606	0.55	ppbv	96
30) Cyclohexane	7.12	84	44298	0.59	ppbv #	84
31) cis-1,2-Dichloroethene	5.54	61	49131m	0.56	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	76180	0.51	ppbv	97
34) 2-Butanone	5.25	43	28630	0.39	ppbv	92
35) Carbon Tetrachloride	7.01	117	76532	0.47	ppbv	99
36) Benzene	6.88	78	105705	0.52	ppbv	98
37) 1,2-Dichloroethane	6.29	62	49039	0.41	ppbv	98
38) Trichloroethene	7.83	130	38391	0.52	ppbv	90
39) 1,2-Dichloropropane	7.60	63	40041	0.49	ppbv	92
40) 1,4-Dioxane	7.86	88	11751m	0.61	ppbv	
41) Tetrahydrofuran	6.07	42	23916m	0.48	ppbv	
42) Bromodichloromethane	7.78	83	80726m	0.47	ppbv	
43) Methyl Methacrylate	8.01	69	32332m	0.45	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	182541	0.52	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	20916m	0.37	ppbv	
46) cis-1,3-Dichloropropene	8.69	75	31365m	0.42	ppbv	
47) 1,1,2-Trichloroethane	9.46	97	40258	0.50	ppbv	97
48) Dibromochloromethane	10.29	129	60489	0.46	ppbv	97
49) Bromoform	13.02	173	45041m	0.46	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	55890m	0.43	ppbv	
51) 2-Hexanone	10.15	43	21347m	0.37	ppbv	
52) Tetrachloroethene	11.21	164	38584m	0.57	ppbv	
53) Toluene	9.79	91	103900	0.47	ppbv	98
54) 1,2-Dibromoethane	10.59	107	58163m	0.51	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.10	131	44899	0.53	ppbv #	1
57) Chlorobenzene	12.13	112	87243	0.55	ppbv	97
58) Ethyl Benzene	12.70	91	126550	0.45	ppbv	99
59) m/p-Xylene	12.98	91	234797m	0.98	ppbv	
60) o-Xylene	13.68	91	113300m	0.50	ppbv	
61) Styrene	13.51	104	44660	0.43	ppbv	96
62) Isopropylbenzene	14.65	105	152213	0.50	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	91587m	0.50	ppbv	
64) n-propylbenzene	15.55	120	36299	0.48	ppbv	77
65) tert-Butylbenzene	16.73	119	135185	0.51	ppbv	96
66) Benzyl Chloride	16.98	91	7056m	0.49	ppbv	
67) sec-Butylbenzene	17.28	105	189660	0.51	ppbv	99
69) p-Isopropyltoluene	17.64	119	148663	0.51	ppbv	97
70) n-Butylbenzene	18.54	91	158956	0.52	ppbv	97
71) 2-Chlorotoluene	15.44	91	108032	0.46	ppbv	98
72) 4-Ethyltoluene	15.82	105	116477	0.46	ppbv	98
73) 1,3,5-Trimethylbenzene	15.98	105	115959m	0.51	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	122383	0.51	ppbv #	88
75) 1,3-Dichlorobenzene	16.98	146	79504m	0.59	ppbv	
76) 1,4-Dichlorobenzene	17.12	146	77944m	0.59	ppbv	
77) 1,2-Dichlorobenzene	17.81	146	81212m	0.63	ppbv	
78) Hexachloro-1,3-Butadiene	23.36	225	85258	0.86	ppbv	98
79) Naphthalene	22.18	128	91285m	0.70	ppbv	
80) Naphthalene,2-methyl-	24.97	142	10780m	0.42	ppbv	
81) 1,2,4-Trichlorobenzene	21.91	180	62135m	0.79	ppbv	

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

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