

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038049.D
 Acq On : 18 Nov 2021 10:41
 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

Reviewed By : Semsettin Yesilyurt 11/25/2021
 Supervised By : Mahesh Dadoda 11/29/2021

Quant Time: Nov 18 11:31:36 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 10:39:10 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	931017	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2732058	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2415069	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1752626	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	113937	0.602	ppbv	97
3) Chlorodifluoromethane	2.99	51	106086	0.438	ppbv	99
4) Chloromethane	3.15	50	34585	0.402	ppbv	99
5) Vinyl Chloride	3.26	62	31921	0.386	ppbv	96
6) Bromomethane	3.48	94	19211m	0.435	ppbv	
7) Chloroethane	3.56	64	12723m	0.438	ppbv	
8) Dichlorotetrafluoroethane	3.19	85	80636	0.411	ppbv	95
9) Propene	3.01	41	41111m	0.450	ppbv	
10) Heptane	8.12	43	97580m	0.434	ppbv	
11) Trichlorofluoromethane	3.95	101	78998m	0.422	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.49	101	55573m	0.383	ppbv	
13) Ethanol	3.63	45	4143m	0.512	ppbv	
14) Bromoethene	3.74	108	24807m	0.409	ppbv	
15) Acetone	3.87	43	43360m	0.396	ppbv	
16) 1,3-Butadiene	3.33	39	33351m	0.411	ppbv	
17) tert-Butyl alcohol	4.32	59	53060m	0.361	ppbv	
18) 1,1-Dichloroethene	4.29	96	25089	0.375	ppbv	84
19) Isopropyl Alcohol	4.00	45	35463m	0.442	ppbv	
20) Methylene Chloride	4.35	84	27317m	0.425	ppbv	
21) Allyl Chloride	4.41	41	39541m	0.361	ppbv	
22) trans-1,2-Dichloroethene	4.89	96	24844m	0.368	ppbv	
23) Vinyl Acetate	5.09	43	56674m	0.313	ppbv	
24) 1,1-Dichloroethane	5.01	63	52482m	0.371	ppbv	
25) Ethyl Acetate	5.69	43	147469m	0.573	ppbv	
26) Hexane	5.69	57	70918m	0.548	ppbv	
27) Carbon Disulfide	4.55	76	56704m	0.334	ppbv	
28) Methyl tert-Butyl Ether	5.05	73	57100	0.344	ppbv	98
29) Chloroform	5.75	83	101271m	0.520	ppbv	
30) Cyclohexane	7.13	84	64617m	0.444	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	64086m	0.598	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	98892	0.400	ppbv	99
34) 2-Butanone	5.27	43	60405m	0.670	ppbv	
35) Carbon Tetrachloride	7.01	117	96269	0.510	ppbv	98
36) Benzene	6.89	78	148372m	0.571	ppbv	
37) 1,2-Dichloroethane	6.30	62	67528	0.560	ppbv	99
38) Trichloroethene	7.83	130	55144m	0.522	ppbv	
39) 1,2-Dichloropropane	7.62	63	57649	0.574	ppbv	93
40) 1,4-Dioxane	7.88	88	15903m	0.614	ppbv	
41) Tetrahydrofuran	6.08	42	38243m	0.591	ppbv	
42) Bromodichloromethane	7.79	83	101637	0.535	ppbv	95
43) Methyl Methacrylate	8.02	69	45499	0.491	ppbv	93

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

44) 2,2,4-Trimethylpentane	7.87	57	248673	0.557	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	32819m	0.427	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	48547m	0.484	ppbv	
47) 1,1,2-Trichloroethane	9.47	97	59325m	0.581	ppbv	
48) Dibromochloromethane	10.30	129	80417m	0.485	ppbv	
49) Bromoform	13.04	173	52895	0.413	ppbv	96
50) 4-Methyl-2-Pentanone	8.77	43	86290m	0.531	ppbv	
51) 2-Hexanone	10.16	43	39263m	0.517	ppbv	
52) Tetrachloroethene	11.22	164	52113m	0.531	ppbv	
53) Toluene	9.80	91	169171	0.557	ppbv	98
54) 1,2-Dibromoethane	10.61	107	79237m	0.554	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.12	131	57616	0.546	ppbv #	1
57) Chlorobenzene	12.14	112	121770m	0.615	ppbv	
58) Ethyl Benzene	12.70	91	225114m	0.614	ppbv	
59) m/p-Xylene	12.99	91	379545m	1.245	ppbv	
60) o-Xylene	13.68	91	177511	0.627	ppbv	97
61) Styrene	13.52	104	83835m	0.531	ppbv	
62) Isopropylbenzene	14.66	105	250766	0.613	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	123858m	0.586	ppbv	
64) n-propylbenzene	15.55	120	64338m	0.617	ppbv	
65) tert-Butylbenzene	16.74	119	229282	0.639	ppbv	99
66) Benzyl Chloride	16.98	91	9530m	0.380	ppbv	
67) sec-Butylbenzene	17.29	105	319077m	0.643	ppbv	
69) p-Isopropyltoluene	17.65	119	234291	0.586	ppbv	96
70) n-Butylbenzene	18.55	91	220007	0.600	ppbv	99
71) 2-Chlorotoluene	15.45	91	186194	0.636	ppbv	98
72) 4-Ethyltoluene	15.83	105	194259	0.576	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	189352m	0.614	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	189202	0.609	ppbv	94
75) 1,3-Dichlorobenzene	16.99	146	102449m	0.598	ppbv	
76) 1,4-Dichlorobenzene	17.13	146	103529m	0.589	ppbv	
77) 1,2-Dichlorobenzene	17.81	146	104838m	0.638	ppbv	
78) Hexachloro-1,3-Butadiene	23.36	225	68993m	0.647	ppbv	
79) Naphthalene	22.20	128	83509m	0.490	ppbv	
80) Naphthalene, 2-methyl-	24.98	142	13958m	0.434	ppbv	
81) 1,2,4-Trichlorobenzene	21.92	180	52936m	0.549	ppbv	

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

