

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
 Data File : VL038214.D
 Acq On : 21 Dec 2021 14:39
 Operator : SY/AP
 Sample : VSTDICC001
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/22/2021
 Supervised By :Mahesh Dadoda 12/29/2021

Quant Time: Dec 21 17:45:31 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Dec 21 15:18:51 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	741027	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2362916	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2139236	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1633588	10.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	144190	1.091 ppbv	98
3) Chlorodifluoromethane	3.00	51	172843	1.103 ppbv	99
4) Chloromethane	3.15	50	60334	1.127 ppbv	93
5) Vinyl Chloride	3.27	62	57029	1.077 ppbv	97
6) Bromomethane	3.48	94	30409	1.063 ppbv	85
7) Chloroethane	3.56	64	19274m	1.025 ppbv	
8) Dichlorotetrafluoroethane	3.20	85	140470	1.117 ppbv	96
9) Propene	3.02	41	61367	1.085 ppbv	100
10) Heptane	8.12	43	152096	1.080 ppbv	99
11) Trichlorofluoromethane	3.96	101	140630	1.134 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	104443	1.147 ppbv	99
13) Ethanol	3.63	45	12484m	1.401 ppbv	
14) Bromoethene	3.75	108	37474	0.990 ppbv #	87
15) Acetone	3.87	43	81565	1.174 ppbv	98
16) 1,3-Butadiene	3.33	39	50903	1.010 ppbv	89
17) tert-Butyl alcohol	4.31	59	84959	1.069 ppbv	95
18) 1,1-Dichloroethene	4.29	96	45879	1.126 ppbv	98
19) Isopropyl Alcohol	3.99	45	49688	1.079 ppbv #	80
20) Methylene Chloride	4.35	84	48660	1.233 ppbv	97
21) Allyl Chloride	4.42	41	69148	1.116 ppbv	98
22) trans-1,2-Dichloroethene	4.89	96	44005	1.058 ppbv	95
23) Vinyl Acetate	5.08	43	105437	1.079 ppbv #	95
24) 1,1-Dichloroethane	5.02	63	97363	1.136 ppbv	98
25) Ethyl Acetate	5.69	43	220325	1.053 ppbv #	97
26) Hexane	5.69	57	112738	1.104 ppbv	98
27) Carbon Disulfide	4.56	76	89185	0.981 ppbv #	93
28) Methyl tert-Butyl Ether	5.05	73	106923	1.115 ppbv	99
29) Chloroform	5.75	83	159800	1.062 ppbv	96
30) Cyclohexane	7.13	84	97677	1.052 ppbv #	70
31) cis-1,2-Dichloroethene	5.55	61	76552	0.904 ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	159272	1.041 ppbv	99
34) 2-Butanone	5.26	43	73147	0.891 ppbv	96
35) Carbon Tetrachloride	7.01	117	150745	0.954 ppbv	94
36) Benzene	6.89	78	234340	1.036 ppbv	98
37) 1,2-Dichloroethane	6.31	62	111582	1.009 ppbv	98
38) Trichloroethene	7.83	130	87461	1.015 ppbv	95
39) 1,2-Dichloropropane	7.61	63	89844	1.028 ppbv	93
40) 1,4-Dioxane	7.87	88	30521m	1.290 ppbv	
41) Tetrahydrofuran	6.08	42	47707	0.887 ppbv #	88
42) Bromodichloromethane	7.79	83	156842	0.969 ppbv	99
43) Methyl Methacrylate	8.02	69	76981	0.990 ppbv	93

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

44) 2,2,4-Trimethylpentane	7.87	57	414834	1.094	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	48518	0.821	ppbv	96
46) cis-1,3-Dichloropropene	8.70	75	75001m	0.913	ppbv	
47) 1,1,2-Trichloroethane	9.47	97	93712	1.036	ppbv	97
48) Dibromochloromethane	10.30	129	121829	0.927	ppbv	99
49) Bromoform	13.04	173	81332	0.877	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	122575	0.903	ppbv	89
51) 2-Hexanone	10.16	43	50753	0.817	ppbv #	82
52) Tetrachloroethene	11.22	164	82818	0.979	ppbv	93
53) Toluene	9.80	91	272266	1.047	ppbv	99
54) 1,2-Dibromoethane	10.60	107	129895	1.019	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.13	131	95876m	1.051	ppbv	
57) Chlorobenzene	12.14	112	204786m	1.110	ppbv	
58) Ethyl Benzene	12.71	91	357323	1.061	ppbv	96
59) m/p-Xylene	13.00	91	626076m	2.205	ppbv	
60) o-Xylene	13.68	91	293612	1.104	ppbv	99
61) Styrene	13.52	104	140007	1.020	ppbv	100
62) Isopropylbenzene	14.66	105	406114	1.083	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.67	83	204056	1.030	ppbv	98
64) n-propylbenzene	15.55	120	101374m	1.064	ppbv	
65) tert-Butylbenzene	16.74	119	369728	1.121	ppbv	98
66) Benzyl Chloride	16.98	91	10578m	0.775	ppbv	
67) sec-Butylbenzene	17.29	105	501511	1.095	ppbv	99
69) p-Isopropyltoluene	17.65	119	396152	1.101	ppbv	98
70) n-Butylbenzene	18.55	91	372800	1.088	ppbv	100
71) 2-Chlorotoluene	15.45	91	301487	1.092	ppbv	99
72) 4-Ethyltoluene	15.83	105	334777	1.090	ppbv	98
73) 1,3,5-Trimethylbenzene	15.99	105	301603	1.072	ppbv	99
74) 1,2,4-Trimethylbenzene	16.75	105	32682m	1.129	ppbv	
75) 1,3-Dichlorobenzene	16.99	146	171717	1.088	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	154940	1.016	ppbv	92
77) 1,2-Dichlorobenzene	17.82	146	159919	1.053	ppbv	94
78) Hexachloro-1,3-Butadiene	23.37	225	108243m	1.145	ppbv	
79) Naphthalene	22.19	128	146444	0.967	ppbv	98
80) Naphthalene,2-methyl-	24.98	142	27795m	0.885	ppbv	
81) 1,2,4-Trichlorobenzene	21.92	180	92215m	1.067	ppbv	

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

