

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110121\
 Data File : VL037936.D
 Acq On : 1 Nov 2021 10:40
 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 : Semsettin Yesilyurt 11/05/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Quant Time: Nov 01 10:46:02 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110121A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Nov 01 11:08:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1596755	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4667842	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	4189130	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2982618	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	240280	0.942	ppbv	100
3) Chlorodifluoromethane	2.99	51	314397	1.025	ppbv	99
4) Chloromethane	3.14	50	121940	1.085	ppbv #	88
5) Vinyl Chloride	3.26	62	102934	0.999	ppbv	94
6) Bromomethane	3.47	94	60092	1.078	ppbv	96
7) Chloroethane	3.56	64	39629	1.046	ppbv #	86
8) Dichlorotetrafluoroethane	3.19	85	274550	1.089	ppbv	97
9) Propene	3.02	41	106271	0.941	ppbv	100
10) Heptane	8.12	43	249260	0.972	ppbv	97
11) Trichlorofluoromethane	3.95	101	237660	1.044	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	179129	1.039	ppbv	92
13) Ethanol	3.63	45	11876	1.286	ppbv	79
14) Bromoethene	3.74	108	78969m	1.042	ppbv	
15) Acetone	3.86	43	152484m	1.064	ppbv	
16) 1,3-Butadiene	3.33	39	103334	0.991	ppbv	94
17) tert-Butyl alcohol	4.31	59	139021m	0.942	ppbv	
18) 1,1-Dichloroethene	4.29	96	84909m	1.084	ppbv	
19) Isopropyl Alcohol	3.99	45	93101m	1.044	ppbv	
20) Methylene Chloride	4.34	84	74616	1.030	ppbv	93
21) Allyl Chloride	4.41	41	117694	0.927	ppbv	91
22) trans-1,2-Dichloroethene	4.89	96	84304m	1.070	ppbv	
23) Vinyl Acetate	5.08	43	174815	0.814	ppbv #	94
24) 1,1-Dichloroethane	5.01	63	172462	1.103	ppbv	97
25) Ethyl Acetate	5.68	43	410309	1.020	ppbv	99
26) Hexane	5.68	57	197002	0.995	ppbv	97
27) Carbon Disulfide	4.55	76	176080	1.003	ppbv #	93
28) Methyl tert-Butyl Ether	5.05	73	166225m	1.008	ppbv	
29) Chloroform	5.75	83	297429m	1.051	ppbv	
30) Cyclohexane	7.13	84	166671m	0.992	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	174410m	0.970	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	269261m	1.003	ppbv	
34) 2-Butanone	5.25	43	191725m	1.017	ppbv	
35) Carbon Tetrachloride	7.01	117	264202	0.997	ppbv	93
36) Benzene	6.88	78	401480	1.007	ppbv #	95
37) 1,2-Dichloroethane	6.30	62	184590	0.983	ppbv	100
38) Trichloroethene	7.83	130	149405	0.949	ppbv	97
39) 1,2-Dichloropropane	7.61	63	138880	0.926	ppbv	98
40) 1,4-Dioxane	7.86	88	43484m	1.159	ppbv	
41) Tetrahydrofuran	6.07	42	84495m	0.916	ppbv	
42) Bromodichloromethane	7.78	83	278311	1.009	ppbv #	99
43) Methyl Methacrylate	8.02	69	123749m	0.950	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	703521	1.050	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	79704m	0.890	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	117213m	0.944	ppbv	
47) 1,1,2-Trichloroethane	9.47	97	172995m	1.061	ppbv	
48) Dibromochloromethane	10.29	129	231293m	0.995	ppbv	
49) Bromoform	13.03	173	173066m	0.973	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	223979m	0.913	ppbv	
51) 2-Hexanone	10.15	43	82931m	0.757	ppbv	
52) Tetrachloroethene	11.22	164	142705	0.920	ppbv	97
53) Toluene	9.80	91	400632	0.907	ppbv	99
54) 1,2-Dibromoethane	10.60	107	201753	0.916	ppbv	87
56) 1,1,1,2-Tetrachloroethane	12.11	131	180186	1.039	ppbv #	1
57) Chlorobenzene	12.13	112	372064m	1.083	ppbv	
58) Ethyl Benzene	12.70	91	522590	0.929	ppbv	96
59) m/p-Xylene	12.99	91	986832m	2.044	ppbv	
60) o-Xylene	13.68	91	463946	1.003	ppbv	98
61) Styrene	13.52	104	178358m	0.797	ppbv	
62) Isopropylbenzene	14.66	105	652087	1.010	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.66	83	368112	1.031	ppbv	97
64) n-propylbenzene	15.55	120	159568	0.991	ppbv	78
65) tert-Butylbenzene	16.73	119	598756	1.054	ppbv	99
66) Benzyl Chloride	16.98	91	20852m	0.744	ppbv	
67) sec-Butylbenzene	17.28	105	805233	1.037	ppbv	97
69) p-Isopropyltoluene	17.64	119	635509	1.012	ppbv	98
70) n-Butylbenzene	18.54	91	567662	0.951	ppbv	97
71) 2-Chlorotoluene	15.44	91	454644m	0.997	ppbv	
72) 4-Ethyltoluene	15.83	105	538957m	1.026	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	502895m	1.054	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	524234	1.046	ppbv	97
75) 1,3-Dichlorobenzene	16.99	146	319191	1.028	ppbv	97
76) 1,4-Dichlorobenzene	17.12	146	298355	1.007	ppbv	97
77) 1,2-Dichlorobenzene	17.81	146	296491	0.994	ppbv	96
78) Hexachloro-1,3-Butadiene	23.36	225	280266m	1.151	ppbv	
79) Naphthalene	22.18	128	234664m	0.765	ppbv	
80) Naphthalene,2-methyl-	24.96	142	20164m	0.245	ppbv	
81) 1,2,4-Trichlorobenzene	21.92	180	172374m	0.878	ppbv	

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

