

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036471.D
 Acq On : 25 Mar 2021 2:42
 Operator : SY/AP
 Sample : VSTDICC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/26/2021
 Supervised By : Mahesh Dadoda 03/29/2021

Quant Time: Mar 25 08:54:11 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Mar 25 07:52:30 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1640650	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3906966	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3665586	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2815908	9.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	547511	2.310	ppbv	93
3) Chlorodifluoromethane	2.99	51	654781	3.058	ppbv	99
4) Chloromethane	3.14	50	230942	2.438	ppbv	97
5) Vinyl Chloride	3.26	62	226050	2.523	ppbv	97
6) Bromomethane	3.47	94	128542	2.314	ppbv	86
7) Chloroethane	3.56	64	78744	2.353	ppbv	96
8) Dichlorotetrafluoroethane	3.19	85	564446	2.461	ppbv	99
9) Propene	3.01	41	210766	2.418	ppbv	100
10) Heptane	8.12	43	558484	2.593	ppbv	100
11) Trichlorofluoromethane	3.95	101	593904	2.467	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	366853	2.374	ppbv	98
13) Ethanol	3.61	45	24613m	1.969	ppbv	
14) Bromoethene	3.74	108	157990	2.468	ppbv	100
15) Acetone	3.85	43	362993	1.983	ppbv #	83
16) 1,3-Butadiene	3.33	39	236134	2.489	ppbv	99
17) tert-Butyl alcohol	4.30	59	270419	1.845	ppbv	99
18) 1,1-Dichloroethene	4.29	96	155145	2.246	ppbv	97
19) Isopropyl Alcohol	3.97	45	172711m	1.690	ppbv	
20) Methylene Chloride	4.34	84	160333	2.435	ppbv	98
21) Allyl Chloride	4.41	41	271741	2.461	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	145362	2.309	ppbv	99
23) Vinyl Acetate	5.08	43	629657	2.826	ppbv	97
24) 1,1-Dichloroethane	5.01	63	421306	2.426	ppbv	99
25) Ethyl Acetate	5.68	43	822264	2.242	ppbv	99
26) Hexane	5.69	57	392648	2.536	ppbv	98
27) Carbon Disulfide	4.55	76	388665	2.549	ppbv	98
28) Methyl tert-Butyl Ether	5.04	73	439147	2.168	ppbv	97
29) Chloroform	5.75	83	607656	2.419	ppbv	98
30) Cyclohexane	7.13	84	308186	2.407	ppbv #	82
31) cis-1,2-Dichloroethene	5.55	61	380147	2.535	ppbv	95
32) 1,1,1-Trichloroethane	6.51	97	588934	2.341	ppbv	96
34) 2-Butanone	5.25	43	397490	1.742	ppbv	97
35) Carbon Tetrachloride	7.02	117	622314	2.421	ppbv	94
36) Benzene	6.89	78	787411	2.530	ppbv	99
37) 1,2-Dichloroethane	6.31	62	444533	2.286	ppbv	99
38) Trichloroethene	7.83	130	294964m	2.525	ppbv	
39) 1,2-Dichloropropane	7.61	63	318855	2.400	ppbv	98
40) 1,4-Dioxane	7.86	88	69026m	1.700	ppbv	
41) Tetrahydrofuran	6.06	42	188566m	1.558	ppbv	
42) Bromodichloromethane	7.79	83	624209	2.375	ppbv	99
43) Methyl Methacrylate	8.02	69	261174	2.145	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	1434989	2.545	ppbv	98
45) t-1,3-Dichloropropene	9.28	75	292075	2.401	ppbv	91
46) cis-1,3-Dichloropropene	8.70	75	379386m	2.388	ppbv	
47) 1,1,2-Trichloroethane	9.48	97	325400	2.476	ppbv	89
48) Dibromochloromethane	10.31	129	492261	2.467	ppbv	100
49) Bromoform	13.04	173	394340	2.422	ppbv	98
50) 4-Methyl-2-Pentanone	8.75	43	608009	1.850	ppbv	100
51) 2-Hexanone	10.15	43	308130	1.320	ppbv #	98
52) Tetrachloroethene	11.23	164	274329	2.365	ppbv	96
53) Toluene	9.81	91	859704	2.562	ppbv	100
54) 1,2-Dibromoethane	10.61	107	452708	2.395	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.13	131	354061	2.161	ppbv #	1
57) Chlorobenzene	12.15	112	667460	2.447	ppbv	97
58) Ethyl Benzene	12.72	91	1188541	2.527	ppbv	98
59) m/p-Xylene	13.00	91	2087259m	5.050	ppbv	
60) o-Xylene	13.69	91	1007102	2.537	ppbv	98
61) Styrene	13.54	104	499434	2.139	ppbv	98
62) Isopropylbenzene	14.67	105	1341688	2.282	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.68	83	721865	2.351	ppbv	98
64) n-propylbenzene	15.57	120	329053	2.248	ppbv	84
65) tert-Butylbenzene	16.75	119	1217589	2.382	ppbv	97
66) Benzyl Chloride	17.00	91	119675m	1.001	ppbv	
67) sec-Butylbenzene	17.30	105	1685151	2.364	ppbv	98
69) p-Isopropyltoluene	17.66	119	1327313	2.327	ppbv	99
70) n-Butylbenzene	18.55	91	1410203	2.394	ppbv	97
71) 2-Chlorotoluene	15.46	91	1022262	2.321	ppbv	98
72) 4-Ethyltoluene	15.84	105	1094788	2.533	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	1020840	2.451	ppbv	97
74) 1,2,4-Trimethylbenzene	16.76	105	1106162	2.503	ppbv	93
75) 1,3-Dichlorobenzene	17.00	146	579267	2.342	ppbv	95
76) 1,4-Dichlorobenzene	17.14	146	602700m	2.442	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	564600	2.347	ppbv	99
78) Hexachloro-1,3-Butadiene	23.39	225	527204m	2.701	ppbv	
79) Naphthalene	22.21	128	629818m	2.393	ppbv	
80) Naphthalene,2-methyl-	25.00	142	56592	1.011	ppbv	98
81) 1,2,4-Trichlorobenzene	21.93	180	390878	2.542	ppbv	97

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

