

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036477.D
 Acq On : 25 Mar 2021 6:30
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 ICVVL032521

Manual Integrations
 APPROVED

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

Quant Time: Mar 25 09:39:25 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Mar 25 09:34:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1666969	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4042661	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3637282m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3033056	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	2037199	7.493 ppbv	95
3) Chlorodifluoromethane	2.98	51	2508760	8.055 ppbv	99
4) Chloromethane	3.13	50	864722	7.860 ppbv	99
5) Vinyl Chloride	3.25	62	863477	7.634 ppbv	99
6) Bromomethane	3.47	94	485720m	7.799 ppbv	
7) Chloroethane	3.55	64	316561m	8.144 ppbv	
8) Dichlorotetrafluoroethane	3.18	85	2020673	7.787 ppbv	100
9) Propene	3.01	41	816893	8.227 ppbv	97
10) Heptane	8.12	43	2100673	8.305 ppbv	99
11) Trichlorofluoromethane	3.95	101	2120316m	7.652 ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1396109	7.881 ppbv	100
13) Ethanol	3.60	45	86178m	7.289 ppbv	
14) Bromoethene	3.74	108	628281m	8.531 ppbv	
15) Acetone	3.85	43	1194237	7.279 ppbv	97
16) 1,3-Butadiene	3.32	39	925550	8.103 ppbv	98
17) tert-Butyl alcohol	4.29	59	1191115	8.340 ppbv	100
18) 1,1-Dichloroethene	4.28	96	640758	8.131 ppbv	98
19) Isopropyl Alcohol	3.97	45	699513	7.751 ppbv	# 95
20) Methylene Chloride	4.34	84	568489m	7.401 ppbv	
21) Allyl Chloride	4.41	41	1037729	7.934 ppbv	100
22) trans-1,2-Dichloroethene	4.88	96	602349	8.245 ppbv	93
23) Vinyl Acetate	5.07	43	2477446m	8.828 ppbv	
24) 1,1-Dichloroethane	5.01	63	1612108	7.881 ppbv	# 99
25) Ethyl Acetate	5.68	43	3069956	7.870 ppbv	99
26) Hexane	5.69	57	1481629	8.185 ppbv	97
27) Carbon Disulfide	4.55	76	1578548	8.852 ppbv	98
28) Methyl tert-Butyl Ether	5.04	73	1694768	7.939 ppbv	100
29) Chloroform	5.75	83	2220358	7.670 ppbv	99
30) Cyclohexane	7.13	84	1205324	8.210 ppbv	97
31) cis-1,2-Dichloroethene	5.55	61	1455951	8.316 ppbv	99
32) 1,1,1-Trichloroethane	6.51	97	2262130	7.754 ppbv	100
34) 2-Butanone	5.24	43	1457463	7.386 ppbv	99
35) Carbon Tetrachloride	7.02	117	2325825	7.490 ppbv	97
36) Benzene	6.89	78	2999853	8.046 ppbv	99
37) 1,2-Dichloroethane	6.31	62	1690407	7.703 ppbv	100
38) Trichloroethene	7.84	130	1109245	7.645 ppbv	98
39) 1,2-Dichloropropane	7.62	63	1198676	7.925 ppbv	97
40) 1,4-Dioxane	7.83	88	262055m	7.445 ppbv	
41) Tetrahydrofuran	6.05	42	693582m	7.623 ppbv	
42) Bromodichloromethane	7.79	83	2431319	8.145 ppbv	99
43) Methyl Methacrylate	8.02	69	1154774	9.224 ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5104827	7.779	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1048580	7.335	ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	1365074m	7.470	ppbv	
47) 1,1,2-Trichloroethane	9.48	97	1199317	7.829	ppbv	96
48) Dibromochloromethane	10.30	129	2006493	8.592	ppbv	99
49) Bromoform	13.05	173	1636350	8.697	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2261604	7.921	ppbv	99
51) 2-Hexanone	10.14	43	1235963	8.578	ppbv #	100
52) Tetrachloroethene	11.22	164	1035128	7.540	ppbv	99
53) Toluene	9.81	91	3360506	8.464	ppbv	99
54) 1,2-Dibromoethane	10.61	107	1738886	8.038	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.13	131	1361437	8.275	ppbv #	51
57) Chlorobenzene	12.15	112	2457824	7.942	ppbv	98
58) Ethyl Benzene	12.71	91	4516777	8.536	ppbv	98
59) m/p-Xylene	13.00	91	7597980m	16.462	ppbv	
60) o-Xylene	13.70	91	3576556	8.014	ppbv	100
61) Styrene	13.53	104	1998334	8.900	ppbv	99
62) Isopropylbenzene	14.67	105	4972690	8.274	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	2546684	7.481	ppbv	99
64) n-propylbenzene	15.57	120	1294769	8.812	ppbv	100
65) tert-Butylbenzene	16.75	119	4271379	8.196	ppbv	99
66) Benzyl Chloride	17.00	91	470787m	8.173	ppbv	
67) sec-Butylbenzene	17.30	105	6026513	8.192	ppbv	100
69) p-Isopropyltoluene	17.66	119	5001225	8.706	ppbv	98
70) n-Butylbenzene	18.55	91	5134820	8.621	ppbv	100
71) 2-Chlorotoluene	15.46	91	3841968	8.531	ppbv	99
72) 4-Ethyltoluene	15.84	105	4202643	8.594	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	3853340m	8.443	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	3914251	8.014	ppbv	98
75) 1,3-Dichlorobenzene	17.00	146	2251178	8.188	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	2314127m	8.478	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	2191221	8.479	ppbv	99
78) Hexachloro-1,3-Butadiene	23.38	225	1759536m	7.602	ppbv	
79) Naphthalene	22.20	128	2595242	9.106	ppbv	98
80) Naphthalene, 2-methyl-	24.98	142	575622	10.242	ppbv	98
81) 1,2,4-Trichlorobenzene	21.93	180	1596792	9.074	ppbv	98

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

