

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042721\
 Data File : VL036844.D
 Acq On : 27 Apr 2021 2:44
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/28/2021
 Supervised By : Mahesh Dadoda 04/29/2021

Quant Time: Apr 27 09:02:38 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Apr 27 07:21:25 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1532863	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3897577	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3537522	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2840289	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	270144	1.084	ppbv	99
3) Chlorodifluoromethane	2.99	51	306848	1.073	ppbv	99
4) Chloromethane	3.14	50	92575	0.927	ppbv #	85
5) Vinyl Chloride	3.25	62	95915	0.936	ppbv	92
6) Bromomethane	3.47	94	52494	0.936	ppbv	92
7) Chloroethane	3.56	64	30227	0.862	ppbv	89
8) Dichlorotetrafluoroethane	3.18	85	235386	1.000	ppbv	97
9) Propene	3.01	41	89369	0.986	ppbv	96
10) Heptane	8.11	43	215892	0.935	ppbv	95
11) Trichlorofluoromethane	3.94	101	230369	0.926	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	143973	0.901	ppbv	89
13) Ethanol	3.63	45	13282m	1.266	ppbv	
14) Bromoethene	3.74	108	60627	0.918	ppbv #	94
15) Acetone	3.86	43	170572m	1.154	ppbv	
16) 1,3-Butadiene	3.32	39	102884m	1.001	ppbv	
17) tert-Butyl alcohol	4.32	59	136700m	1.056	ppbv	
18) 1,1-Dichloroethene	4.28	96	62236	0.884	ppbv	93
19) Isopropyl Alcohol	4.00	45	80740m	1.002	ppbv	
20) Methylene Chloride	4.34	84	82749m	1.204	ppbv	
21) Allyl Chloride	4.41	41	110921	0.949	ppbv	93
22) trans-1,2-Dichloroethene	4.88	96	69620	1.050	ppbv	96
23) Vinyl Acetate	5.08	43	207574	0.834	ppbv #	94
24) 1,1-Dichloroethane	5.01	63	143737	0.811	ppbv	98
25) Ethyl Acetate	5.68	43	385503	1.079	ppbv	98
26) Hexane	5.68	57	179829	1.094	ppbv	96
27) Carbon Disulfide	4.55	76	140391	0.870	ppbv #	92
28) Methyl tert-Butyl Ether	5.04	73	146433	0.788	ppbv	96
29) Chloroform	5.74	83	268774	1.012	ppbv	93
30) Cyclohexane	7.12	84	130860	0.977	ppbv	93
31) cis-1,2-Dichloroethene	5.54	61	155786	0.983	ppbv	96
32) 1,1,1-Trichloroethane	6.50	97	274769	1.027	ppbv	99
34) 2-Butanone	5.25	43	158364	0.849	ppbv	94
35) Carbon Tetrachloride	7.01	117	271520	0.912	ppbv	98
36) Benzene	6.88	78	346623	0.975	ppbv	96
37) 1,2-Dichloroethane	6.30	62	189466	0.908	ppbv #	95
38) Trichloroethene	7.83	130	127928m	0.918	ppbv	
39) 1,2-Dichloropropane	7.61	63	135538	0.944	ppbv	90
40) 1,4-Dioxane	7.87	88	36347m	1.074	ppbv	
41) Tetrahydrofuran	6.07	42	74732m	0.876	ppbv	
42) Bromodichloromethane	7.78	83	259889	0.917	ppbv	97
43) Methyl Methacrylate	8.01	69	102749m	0.867	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	608930	0.971	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	101957m	0.755	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	132423m	0.769	ppbv	
47) 1,1,2-Trichloroethane	9.47	97	144160m	0.984	ppbv	
48) Dibromochloromethane	10.30	129	191539	0.862	ppbv	95
49) Bromoform	13.04	173	152788m	0.852	ppbv	
50) 4-Methyl-2-Pentanone	8.76	43	227774	0.845	ppbv	100
51) 2-Hexanone	10.16	43	101679m	0.753	ppbv	
52) Tetrachloroethene	11.22	164	119465m	0.909	ppbv	
53) Toluene	9.80	91	345750	0.915	ppbv	100
54) 1,2-Dibromoethane	10.61	107	206070m	0.999	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.12	131	160638	1.022	ppbv #	1
57) Chlorobenzene	12.14	112	295697	0.995	ppbv	98
58) Ethyl Benzene	12.71	91	464834	0.921	ppbv	91
59) m/p-Xylene	12.99	91	871773m	1.975	ppbv	
60) o-Xylene	13.69	91	428843	1.005	ppbv	100
61) Styrene	13.52	104	158960	0.747	ppbv	92
62) Isopropylbenzene	14.66	105	569796	0.992	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	337582	1.027	ppbv	99
64) n-propylbenzene	15.55	120	138177m	0.981	ppbv	
65) tert-Butylbenzene	16.74	119	520153	1.037	ppbv	96
66) Benzyl Chloride	16.99	91	39328m	0.733	ppbv	
67) sec-Butylbenzene	17.29	105	716639	1.013	ppbv	99
69) p-Isopropyltoluene	17.65	119	566809	1.024	ppbv	97
70) n-Butylbenzene	18.55	91	552658	0.963	ppbv	98
71) 2-Chlorotoluene	15.45	91	415926	0.965	ppbv	100
72) 4-Ethyltoluene	15.84	105	435838	0.927	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	423261	0.965	ppbv	97
74) 1,2,4-Trimethylbenzene	16.76	105	469970	0.997	ppbv	97
75) 1,3-Dichlorobenzene	16.99	146	272932	1.028	ppbv	98
76) 1,4-Dichlorobenzene	17.13	146	277492m	1.054	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	268868m	1.074	ppbv	
78) Hexachloro-1,3-Butadiene	23.38	225	239141	1.066	ppbv	96
79) Naphthalene	22.21	128	181551	0.670	ppbv #	94
80) Naphthalene, 2-methyl-	25.00	142	19986m	0.438	ppbv	
81) 1,2,4-Trichlorobenzene	21.93	180	155487m	0.927	ppbv	

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

