

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042721\
 Data File : VL036845.D
 Acq On : 27 Apr 2021 3:20
 Operator : SY/AP
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

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

Quant Time: Apr 27 08:58:39 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	1612046	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3923728	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3535123	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2813136	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	156056	0.595 ppbv	96
3) Chlorodifluoromethane	2.99	51	148911	0.495 ppbv	98
4) Chloromethane	3.13	50	50073	0.477 ppbv #	81
5) Vinyl Chloride	3.25	62	45209	0.420 ppbv	92
6) Bromomethane	3.47	94	24522	0.416 ppbv	98
7) Chloroethane	3.55	64	17350m	0.470 ppbv	
8) Dichlorotetrafluoroethane	3.19	85	125286	0.506 ppbv	99
9) Propene	3.01	41	40581	0.426 ppbv #	81
10) Heptane	8.12	43	98915m	0.407 ppbv	
11) Trichlorofluoromethane	3.94	101	118393	0.452 ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.48	101	77944m	0.464 ppbv	
13) Ethanol	3.63	45	5765m	0.523 ppbv	
14) Bromoethene	3.74	108	29150	0.420 ppbv #	89
15) Acetone	3.87	43	82685m	0.532 ppbv	
16) 1,3-Butadiene	3.33	39	41714m	0.386 ppbv	
17) tert-Butyl alcohol	4.34	59	68083m	0.500 ppbv	
18) 1,1-Dichloroethene	4.28	96	34343m	0.464 ppbv	
19) Isopropyl Alcohol	4.00	45	44822m	0.529 ppbv	
20) Methylene Chloride	4.34	84	43357m	0.600 ppbv	
21) Allyl Chloride	4.40	41	53709m	0.437 ppbv	
22) trans-1,2-Dichloroethene	4.88	96	31287	0.449 ppbv	96
23) Vinyl Acetate	5.08	43	85089	0.325 ppbv #	93
24) 1,1-Dichloroethane	5.01	63	74929	0.402 ppbv	97
25) Ethyl Acetate	5.69	43	177711	0.473 ppbv	98
26) Hexane	5.68	57	85288	0.493 ppbv	94
27) Carbon Disulfide	4.55	76	65316m	0.385 ppbv	
28) Methyl tert-Butyl Ether	5.05	73	77628m	0.397 ppbv	
29) Chloroform	5.74	83	137948m	0.494 ppbv	
30) Cyclohexane	7.12	84	65037m	0.462 ppbv	
31) cis-1,2-Dichloroethene	5.55	61	64880	0.389 ppbv	94
32) 1,1,1-Trichloroethane	6.51	97	132480	0.471 ppbv	97
34) 2-Butanone	5.26	43	86188m	0.459 ppbv	
35) Carbon Tetrachloride	7.01	117	131775	0.439 ppbv	97
36) Benzene	6.88	78	155940m	0.436 ppbv	
37) 1,2-Dichloroethane	6.30	62	88092	0.420 ppbv #	95
38) Trichloroethene	7.83	130	60360m	0.430 ppbv	
39) 1,2-Dichloropropane	7.61	63	68781	0.476 ppbv	93
40) 1,4-Dioxane	7.87	88	19822m	0.582 ppbv	
41) Tetrahydrofuran	6.08	42	31368m	0.365 ppbv	
42) Bromodichloromethane	7.78	83	121078	0.424 ppbv #	95
43) Methyl Methacrylate	8.02	69	43731m	0.367 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	267277	0.423	ppbv	94
45) t-1,3-Dichloropropene	9.27	75	39676m	0.292	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	57942m	0.334	ppbv	
47) 1,1,2-Trichloroethane	9.47	97	66285	0.449	ppbv	99
48) Dibromochloromethane	10.29	129	86611m	0.387	ppbv	
49) Bromoform	13.03	173	65502	0.363	ppbv	97
50) 4-Methyl-2-Pentanone	8.77	43	96773m	0.357	ppbv	
51) 2-Hexanone	10.17	43	43889m	0.323	ppbv	
52) Tetrachloroethene	11.22	164	57316m	0.433	ppbv	
53) Toluene	9.80	91	142181	0.374	ppbv	98
54) 1,2-Dibromoethane	10.60	107	90737m	0.437	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.12	131	74086	0.472	ppbv #	1
57) Chlorobenzene	12.14	112	139544	0.470	ppbv	97
58) Ethyl Benzene	12.71	91	184205	0.365	ppbv	94
59) m/p-Xylene	12.99	91	351859m	0.798	ppbv	
60) o-Xylene	13.68	91	181163m	0.425	ppbv	
61) Styrene	13.53	104	56352m	0.265	ppbv	
62) Isopropylbenzene	14.66	105	252352	0.440	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.68	83	149687	0.456	ppbv	95
64) n-propylbenzene	15.56	120	55283m	0.393	ppbv	
65) tert-Butylbenzene	16.74	119	202523	0.404	ppbv	85
66) Benzyl Chloride	17.00	91	18974m	0.354	ppbv	
67) sec-Butylbenzene	17.29	105	281196	0.398	ppbv	96
69) p-Isopropyltoluene	17.66	119	206941	0.374	ppbv	95
70) n-Butylbenzene	18.56	91	200597	0.350	ppbv	97
71) 2-Chlorotoluene	15.45	91	167057	0.388	ppbv	96
72) 4-Ethyltoluene	15.84	105	152422	0.324	ppbv #	88
73) 1,3,5-Trimethylbenzene	16.00	105	173305m	0.395	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	180224	0.383	ppbv	93
75) 1,3-Dichlorobenzene	16.99	146	121268m	0.457	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	120756m	0.459	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	122085m	0.488	ppbv	
78) Hexachloro-1,3-Butadiene	23.37	225	111117	0.496	ppbv	95
79) Naphthalene	22.21	128	72559m	0.268	ppbv	
80) Naphthalene, 2-methyl-	25.08	142	8402m	0.184	ppbv	
81) 1,2,4-Trichlorobenzene	21.93	180	56361m	0.336	ppbv	

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

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