

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080320\
 Data File : VL035318.D
 Acq On : 3 Aug 2020 14:14
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

apatel
 8/6/2020 2:44:28 PM

Quant Time: Aug 03 15:19:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 03 2020
 QLast Update : Mon Aug 03 15:02:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1440224	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3599027	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3287264	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2831058	10.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	112337	0.653 ppbv	90
3) Chlorodifluoromethane	2.94	51	87068	0.546 ppbv	100
4) Chloromethane	3.10	50	51999	0.580 ppbv #	84
5) Vinyl Chloride	3.21	62	43094	0.461 ppbv	97
6) Bromomethane	3.43	94	31625	0.548 ppbv #	78
7) Chloroethane	3.52	64	19464	0.577 ppbv	93
8) Dichlorotetrafluoroethane	3.14	85	132524	0.607 ppbv	96
9) Propene	2.96	41	27721	0.499 ppbv	99
10) Heptane	8.12	43	61277	0.407 ppbv	100
11) Trichlorofluoromethane	3.92	101	137488	0.594 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	91032	0.555 ppbv	92
13) Ethanol	3.58	45	12553m	0.555 ppbv	
14) Bromoethene	3.70	108	33253m	0.497 ppbv	
15) Acetone	3.82	43	123524	0.643 ppbv	95
16) 1,3-Butadiene	3.28	39	37445	0.500 ppbv	99
17) tert-Butyl alcohol	4.27	59	99551m	0.537 ppbv	
18) 1,1-Dichloroethene	4.26	96	40243	0.552 ppbv #	84
19) Isopropyl Alcohol	3.94	45	66397	0.524 ppbv #	86
20) Methylene Chloride	4.31	84	60876	0.696 ppbv	88
21) Allyl Chloride	4.38	41	54840	0.501 ppbv #	85
22) trans-1,2-Dichloroethene	4.86	96	39874m	0.570 ppbv	
23) Vinyl Acetate	5.05	43	78663	0.408 ppbv #	91
24) 1,1-Dichloroethane	4.99	63	100148	0.556 ppbv	96
25) Ethyl Acetate	5.67	43	151455	0.505 ppbv	98
26) Hexane	5.67	57	60945	0.450 ppbv #	81
27) Carbon Disulfide	4.52	76	93688m	0.512 ppbv	
28) Methyl tert-Butyl Ether	5.02	73	89071	0.460 ppbv	98
29) Chloroform	5.74	83	125268	0.552 ppbv #	79
30) Cyclohexane	7.13	84	48147m	0.498 ppbv	
31) cis-1,2-Dichloroethene	5.53	61	55061	0.467 ppbv #	86
32) 1,1,1-Trichloroethane	6.50	97	117249	0.505 ppbv	98
34) 2-Butanone	5.23	43	80670	0.441 ppbv	99
35) Carbon Tetrachloride	7.01	117	116321m	0.483 ppbv	
36) Benzene	6.89	78	111578	0.446 ppbv #	96
37) 1,2-Dichloroethane	6.29	62	86996	0.498 ppbv	99
38) Trichloroethene	7.84	130	43383	0.418 ppbv	92
39) 1,2-Dichloropropane	7.62	63	44417	0.445 ppbv #	76
40) 1,4-Dioxane	7.87	88	20210m	0.514 ppbv	
41) Tetrahydrofuran	6.05	42	34215m	0.381 ppbv	
42) Bromodichloromethane	7.79	83	113457	0.486 ppbv	98
43) Methyl Methacrylate	8.02	69	38088m	0.351 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	183124	0.416	ppbv	94
45) t-1,3-Dichloropropene	9.28	75	38947m	0.357	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	47406m	0.356	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	58078m	0.493	ppbv	
48) Dibromochloromethane	10.32	129	87020m	0.469	ppbv	
49) Bromoform	13.07	173	69614	0.417	ppbv	96
50) 4-Methyl-2-Pentanone	8.76	43	99428m	0.375	ppbv	
51) 2-Hexanone	10.16	43	73317m	0.364	ppbv	
52) Tetrachloroethene	11.24	164	39705m	0.416	ppbv	
53) Toluene	9.82	91	92312m	0.347	ppbv	
54) 1,2-Dibromoethane	10.63	107	78400m	0.460	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.14	131	81249m	0.538	ppbv	
57) Chlorobenzene	12.16	112	126763m	0.512	ppbv	
58) Ethyl Benzene	12.73	91	123266	0.354	ppbv	98
59) m/p-Xylene	13.02	91	268244m	0.828	ppbv	
60) o-Xylene	13.72	91	127437	0.394	ppbv	91
61) Styrene	13.56	104	60612m	0.309	ppbv	
62) Isopropylbenzene	14.70	105	206254	0.429	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	134808m	0.484	ppbv	
64) n-propylbenzene	15.59	120	48977m	0.383	ppbv	
65) tert-Butylbenzene	16.79	119	179515m	0.412	ppbv	
66) Benzyl Chloride	17.03	91	69826m	0.409	ppbv	
67) sec-Butylbenzene	17.33	105	258102	0.405	ppbv	96
69) p-Isopropyltoluene	17.69	119	204350m	0.393	ppbv	
70) n-Butylbenzene	18.59	91	224547m	0.399	ppbv	
71) 2-Chlorotoluene	15.48	91	138788	0.382	ppbv	95
72) 4-Ethyltoluene	15.87	105	128191	0.352	ppbv #	94
73) 1,3,5-Trimethylbenzene	16.03	105	134699	0.379	ppbv	94
74) 1,2,4-Trimethylbenzene	16.79	105	185922m	0.450	ppbv	
75) 1,3-Dichlorobenzene	17.03	146	132853m	0.498	ppbv	
76) 1,4-Dichlorobenzene	17.17	146	114783m	0.476	ppbv	
77) 1,2-Dichlorobenzene	17.86	146	115397m	0.483	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	97817m	0.500	ppbv	
79) Naphthalene	22.26	128	114550m	0.349	ppbv	
80) Naphthalene, 2-methyl-	25.01	142	23568	0.222	ppbv	95
81) 1,2,4-Trichlorobenzene	21.98	180	80809m	0.404	ppbv	

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

