

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031921\
 Data File : VN066280.D
 Acq On : 19 Mar 2021 15:05
 Operator : JC/MD
 Sample : M1682-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-MANHOLE

Quant Time: Mar 20 04:58:38 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031621W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 17 05:05:15 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

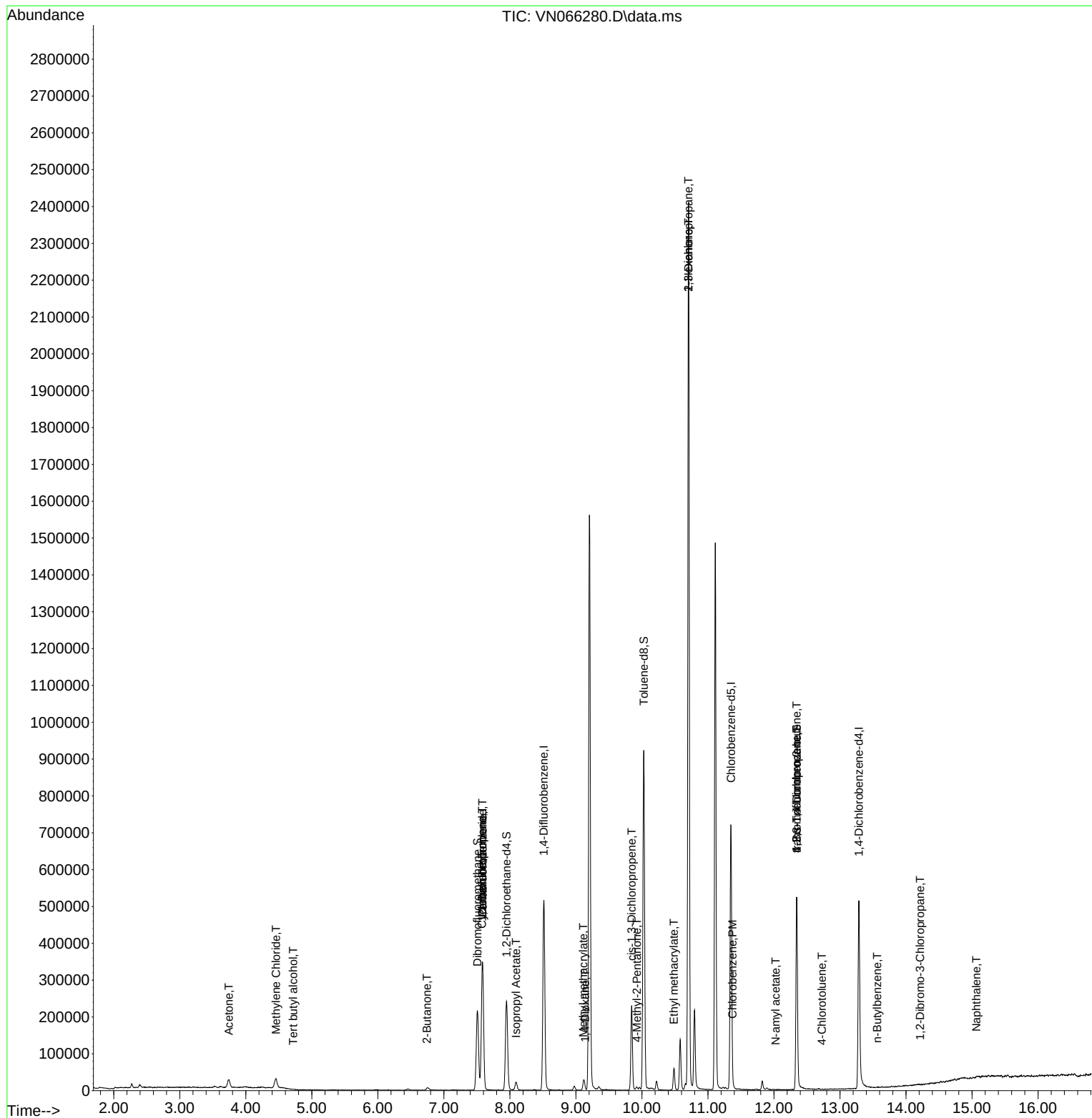
Internal Standards						
1) Pentafluorobenzene	7.587	168	315292	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.515	114	471027	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.350	117	438348	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.286	152	163215	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.949	65	205129	45.16	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	90.32%		
35) Dibromofluoromethane	7.509	113	166628	55.45	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	110.90%		
50) Toluene-d8	10.028	98	641600	55.22	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	110.44%		
62) 4-Bromofluorobenzene	12.345	95	179930	42.96	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	85.92%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.717	59	223	0.29	ug/l #	73
13) Acrolein	3.537	56	2828	Below Cal	#	70
16) Acetone	3.744	43	35095	16.08	ug/l	93
20) Methylene Chloride	4.460	84	16055	4.70	ug/l	95
25) 2-Butanone	6.745	43	3830	1.13	ug/l	95
31) Cyclohexane	7.579	56	2538	0.37	ug/l #	1
36) 1,1-Dichloropropene	7.582	75	19609	4.11	ug/l #	50
38) Carbon Tetrachloride	7.584	117	25683	6.01	ug/l #	18
43) Isopropyl Acetate	8.094	43	26870	2.55	ug/l #	89
48) Methyl methacrylate	9.113	41	7458	1.49	ug/l #	21
49) 1,4-Dioxane	9.143	88	24	0.44	ug/l #	16
51) 4-Methyl-2-Pentanone	9.923	43	6535	1.03	ug/l	96
54) cis-1,3-Dichloropropene	9.845	75	39902	6.45	ug/l #	55
56) Ethyl methacrylate	10.484	69	641	2.26	ug/l #	1
57) 1,3-Dichloropropane	10.706	76	23401	3.82	ug/l #	44
59) 2-Hexanone	10.706	43	336553	68.54	ug/l #	59
65) Chlorobenzene	11.374	112	5425	0.62	ug/l	92
74) N-amyl acetate	12.026	43	316	2.21	ug/l #	49
76) 1,2,3-Trichloropropane	12.345	75	82881	19.66	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.345	75	82881	58.84	ug/l #	11
82) 4-Chlorotoluene	12.726	91	63	0.48	ug/l #	43
89) n-Butylbenzene	13.563	91	437	2.28	ug/l #	58
92) 1,2-Dibromo-3-Chloropr...	14.214	75	112	0.96	ug/l #	8
95) Naphthalene	15.067	128	2460	0.26	ug/l #	72

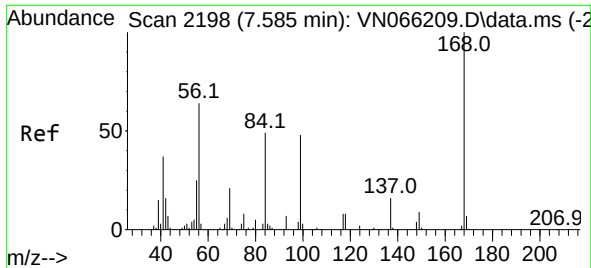
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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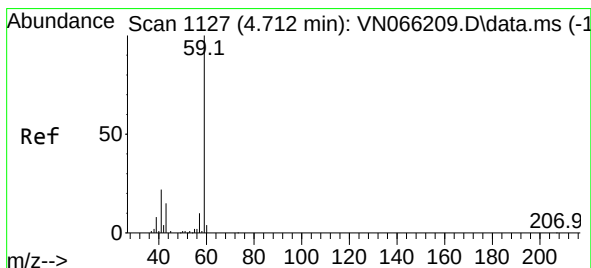
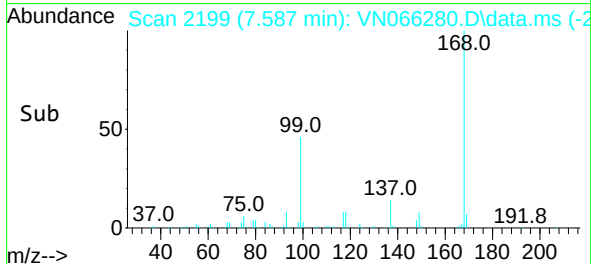
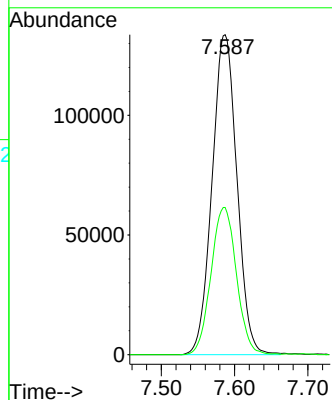
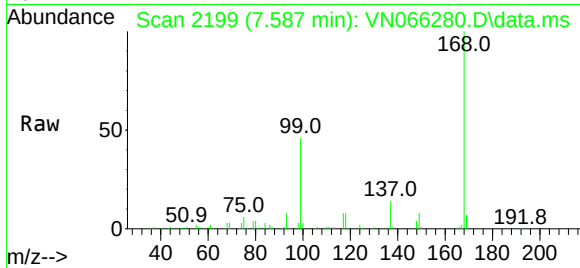




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.587 min Scan# 2199
Delta R.T. 0.002 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

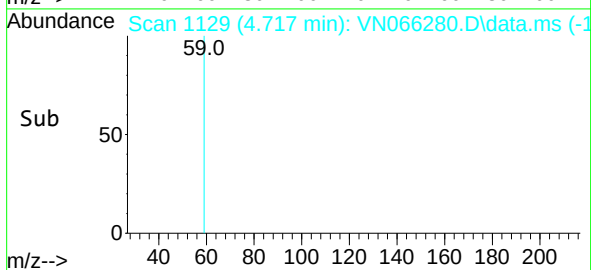
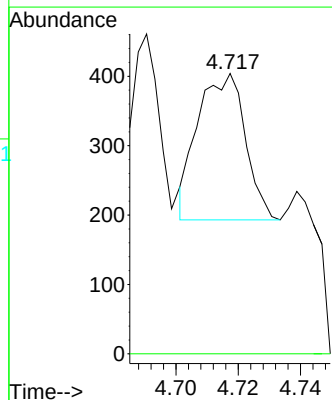
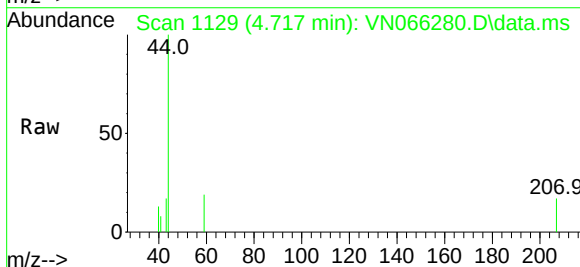
Instrument :
MSVOA_N
ClientSampled :
SP-MANHOLE

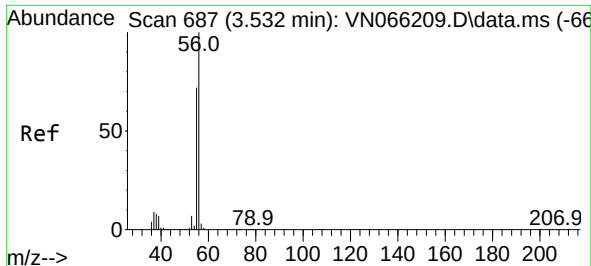
Tgt Ion:168 Resp: 315292
Ion Ratio Lower Upper
168 100
99 46.0 45.4 68.0



#11
Tert butyl alcohol
Concen: 0.29 ug/l
RT: 4.717 min Scan# 1129
Delta R.T. 0.005 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

Tgt Ion: 59 Resp: 223
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

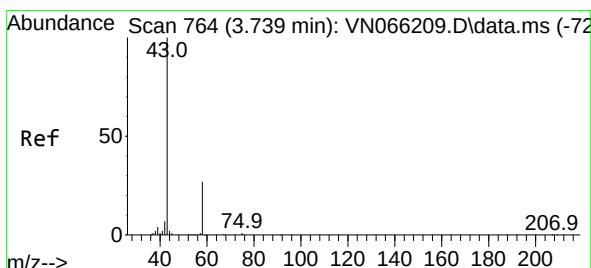
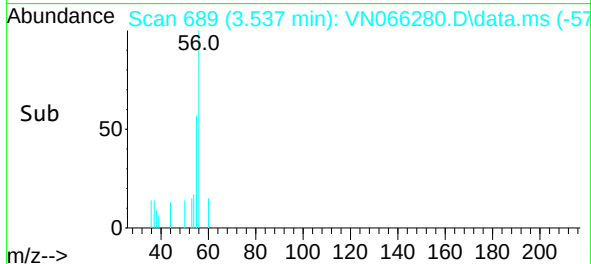
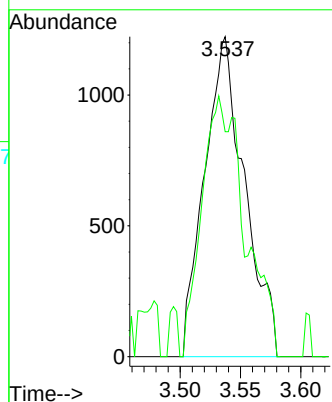
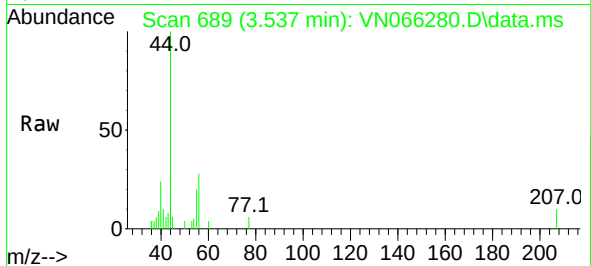




#13
Acrolein
Concen: Below Cal
RT: 3.537 min Scan# 689
Delta R.T. 0.005 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

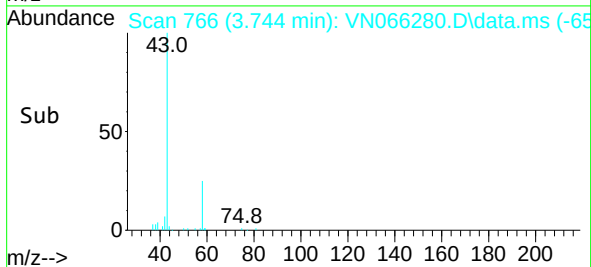
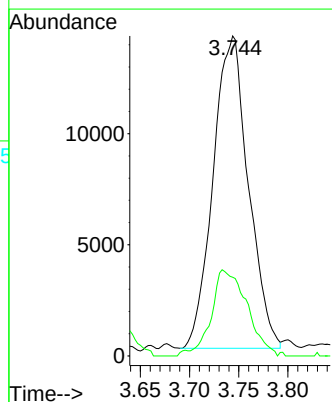
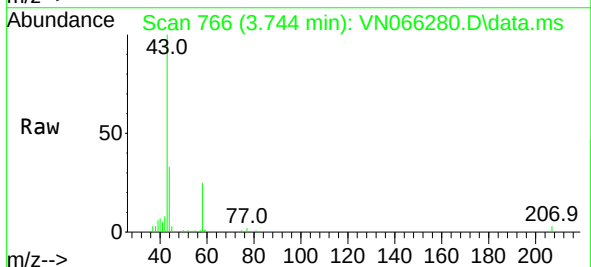
Instrument :
MSVOA_N
ClientSampleId :
SP-MANHOLE

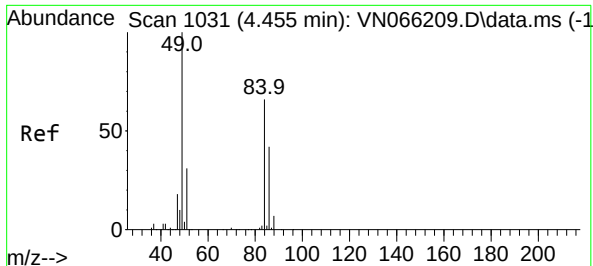
Tgt Ion: 56 Resp: 2828
Ion Ratio Lower Upper
56 100
55 47.5 58.0 87.0#



#16
Acetone
Concen: 16.08 ug/l
RT: 3.744 min Scan# 766
Delta R.T. 0.005 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

Tgt Ion: 43 Resp: 35095
Ion Ratio Lower Upper
43 100
58 24.1 22.3 33.5





#20

Methylene Chloride

Concen: 4.70 ug/l

RT: 4.460 min Scan# 1033

Delta R.T. 0.005 min

Lab File: VN066280.D

Acq: 19 Mar 2021 15:05

Tgt Ion: 84 Resp: 16055

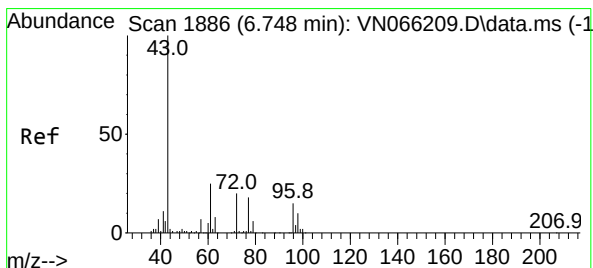
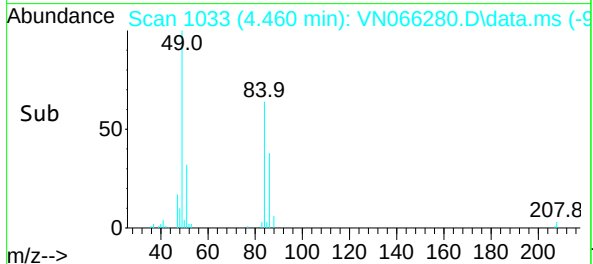
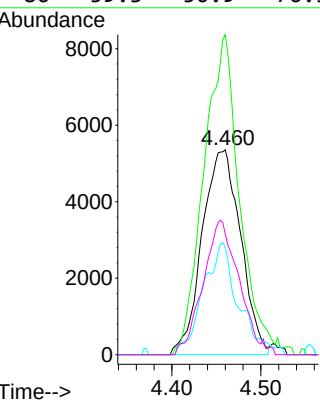
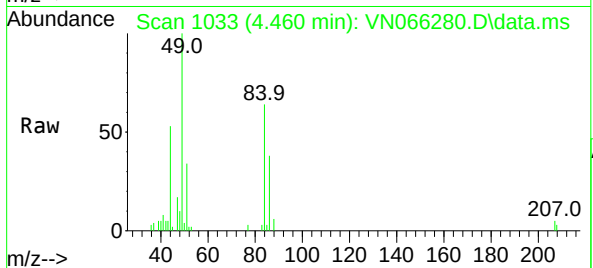
Ion Ratio Lower Upper

84 100

49 156.2 130.0 195.0

51 52.7 39.1 58.7

86 59.3 50.9 76.3



#25

2-Butanone

Concen: 1.13 ug/l

RT: 6.745 min Scan# 1885

Delta R.T. -0.003 min

Lab File: VN066280.D

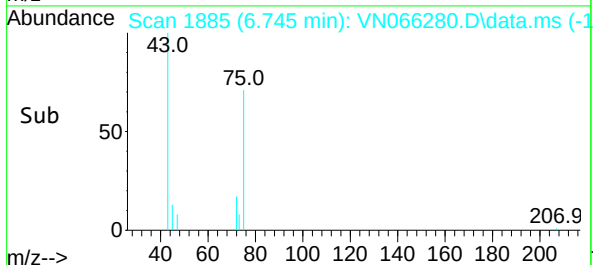
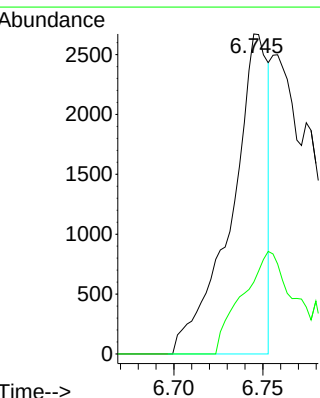
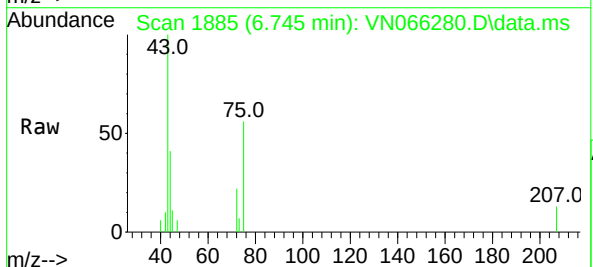
Acq: 19 Mar 2021 15:05

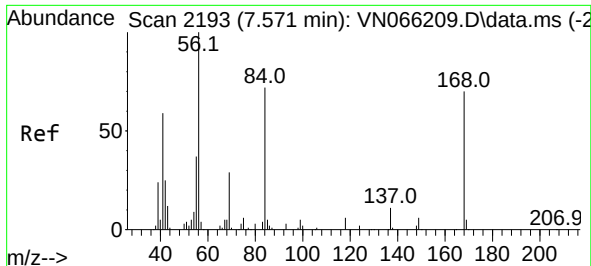
Tgt Ion: 43 Resp: 3830

Ion Ratio Lower Upper

43 100

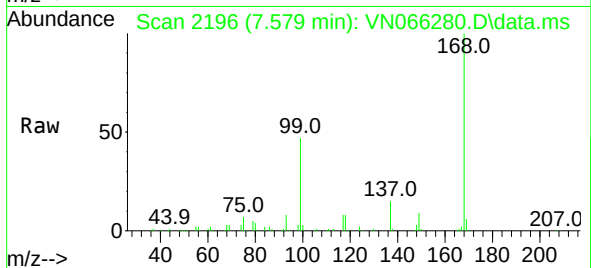
72 22.5 16.2 24.2



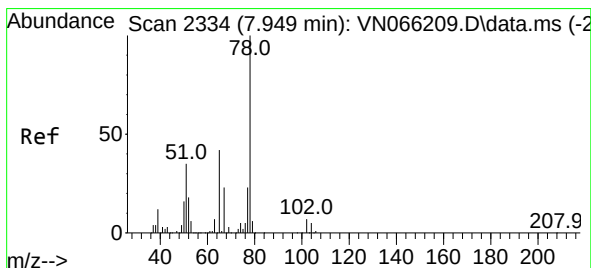
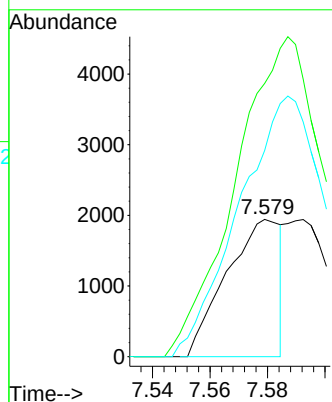
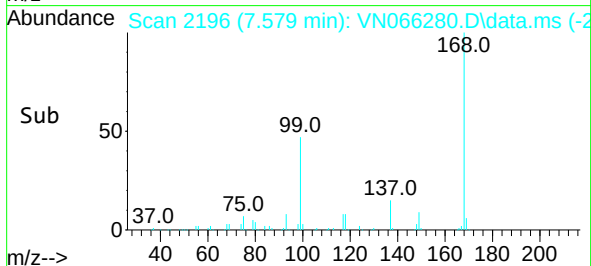


#31
Cyclohexane
Concen: 0.37 ug/l
RT: 7.579 min Scan# 2196
Delta R.T. 0.008 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

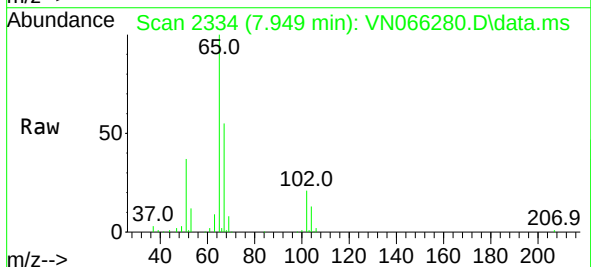
Instrument :
MSVOA_N
ClientSampled :
SP-MANHOLE



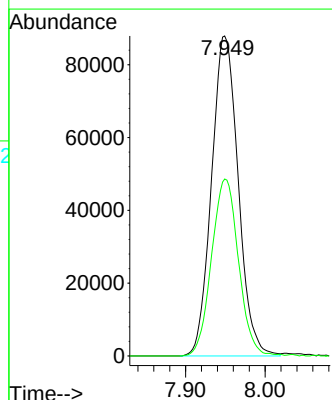
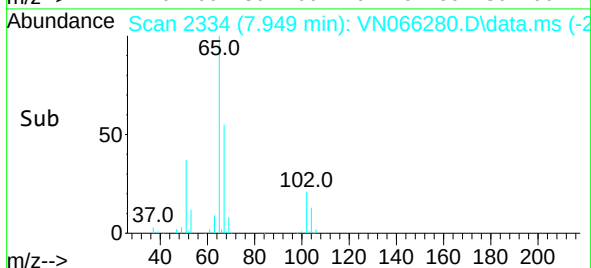
Tgt Ion: 56 Resp: 2538
Ion Ratio Lower Upper
56 100
69 182.0 23.4 35.0#
84 140.8 57.8 86.6#

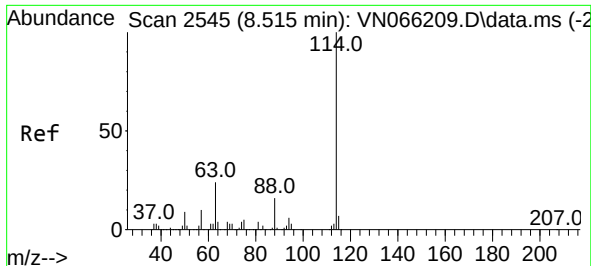


#33
1,2-Dichloroethane-d4
Concen: 45.16 ug/l
RT: 7.949 min Scan# 2334
Delta R.T. 0.000 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05



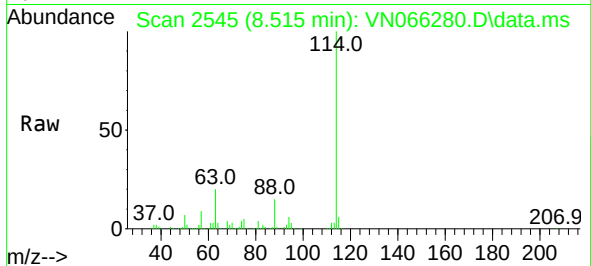
Tgt Ion: 65 Resp: 205129
Ion Ratio Lower Upper
65 100
67 55.7 0.0 107.2



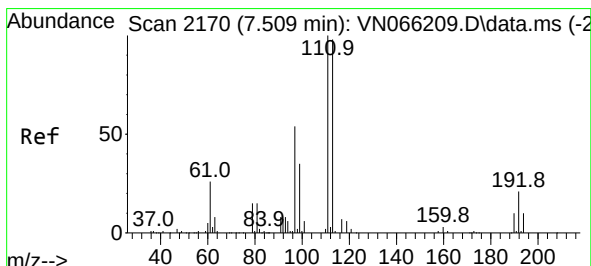
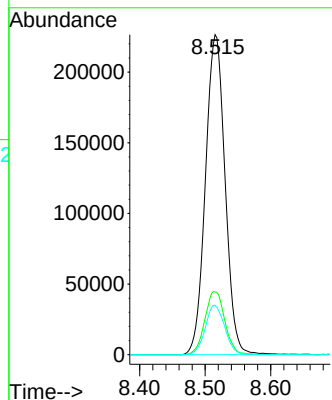
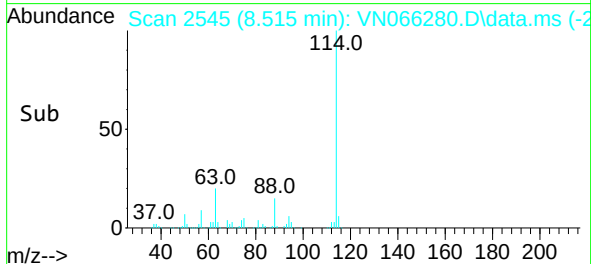


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.515 min Scan# 2545
Delta R.T. 0.000 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

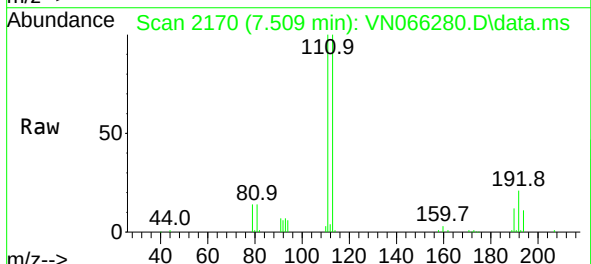
Instrument :
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SP-MANHOLE



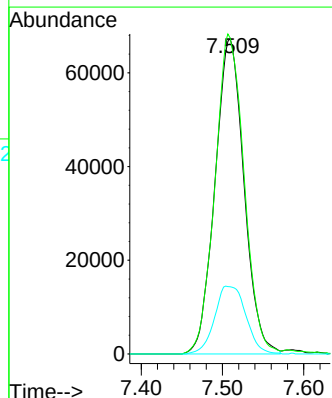
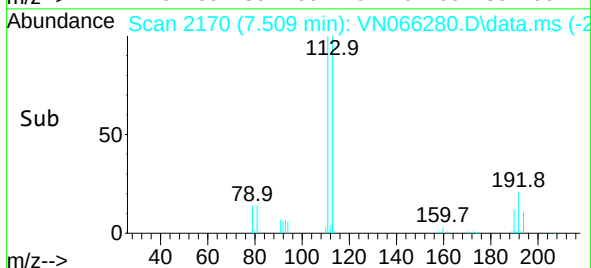
Tgt Ion:114 Resp: 471027
Ion Ratio Lower Upper
114 100
63 19.6 0.0 49.2
88 15.4 0.0 33.8

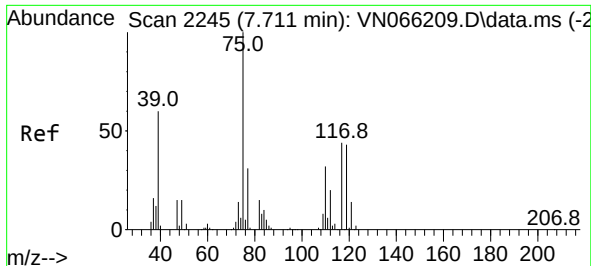


#35
Dibromofluoromethane
Concen: 55.45 ug/l
RT: 7.509 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05



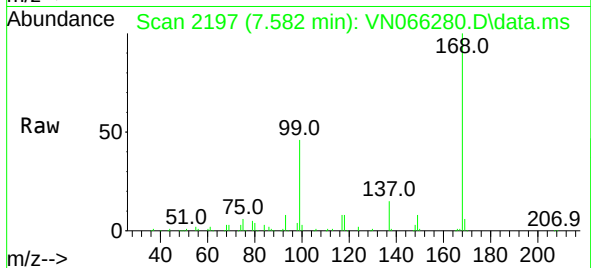
Tgt Ion:113 Resp: 166628
Ion Ratio Lower Upper
113 100
111 102.0 84.0 126.0
192 23.2 16.7 25.1



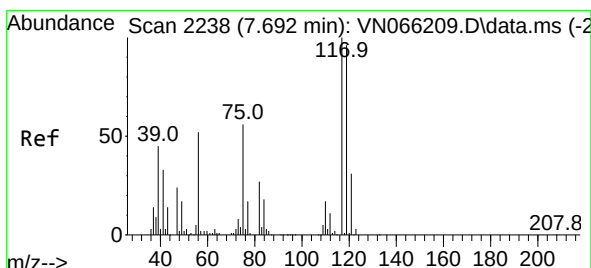
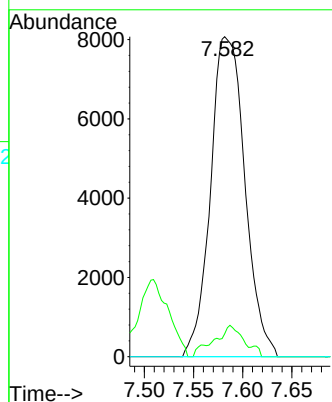
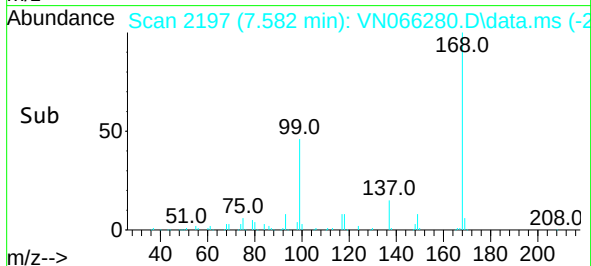


#36
1,1-Dichloropropene
Concen: 4.11 ug/l
RT: 7.582 min Scan# 2197
Delta R.T. -0.129 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

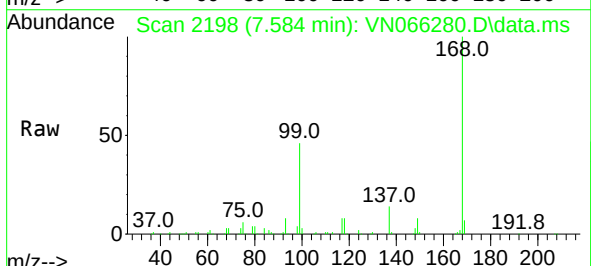
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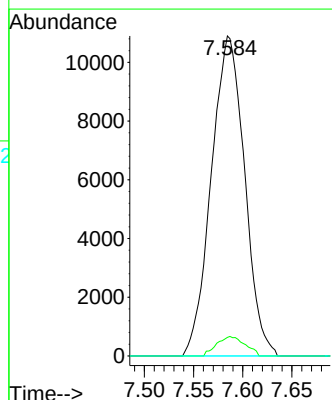
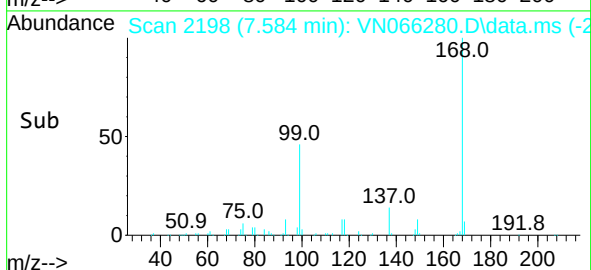
Tgt Ion: 75 Resp: 19609
Ion Ratio Lower Upper
75 100
110 7.9 16.0 48.0#
77 0.0 24.9 37.3#

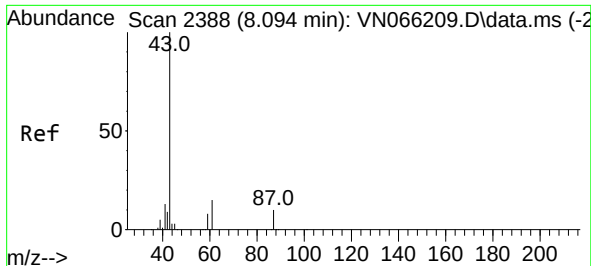


#38
Carbon Tetrachloride
Concen: 6.01 ug/l
RT: 7.584 min Scan# 2198
Delta R.T. -0.108 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05



Tgt Ion: 117 Resp: 25683
Ion Ratio Lower Upper
117 100
119 5.8 74.6 111.8#
121 0.0 23.9 35.9#

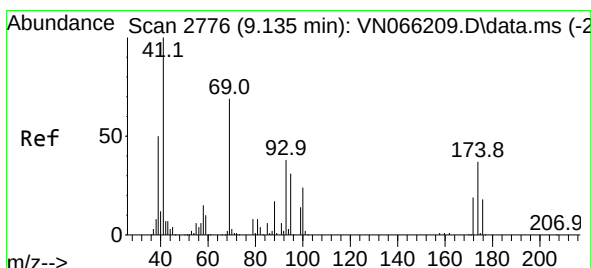
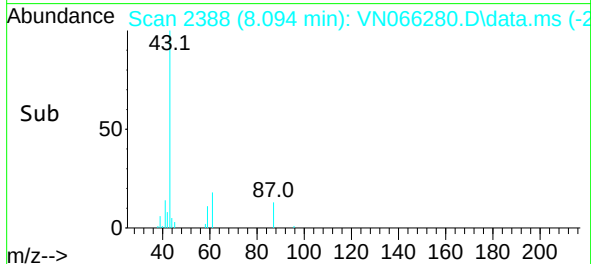
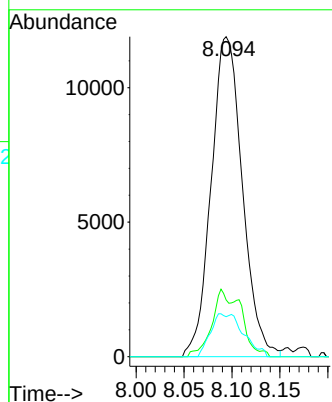
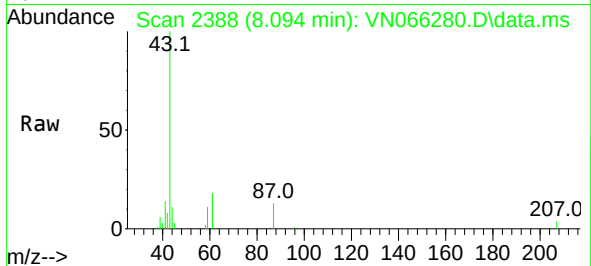




#43
Isopropyl Acetate
Concen: 2.55 ug/l
RT: 8.094 min Scan# 2388
Delta R.T. -0.000 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

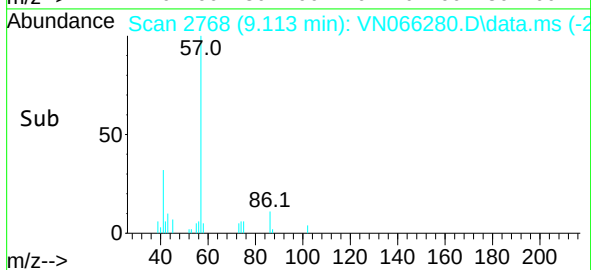
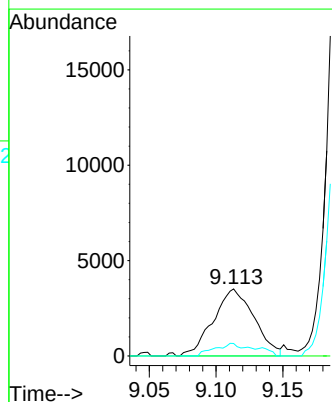
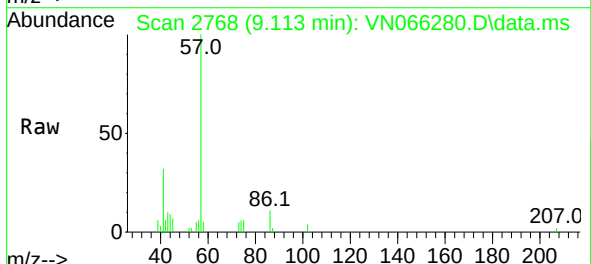
Instrument :
MSVOA_N
ClientSampleId :
SP-MANHOLE

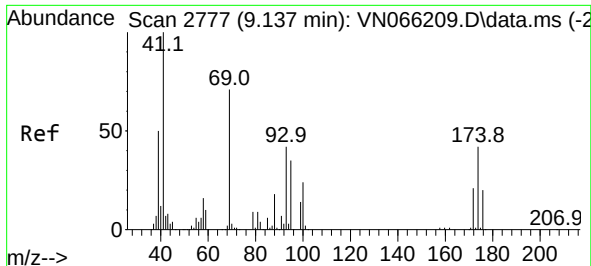
Tgt Ion:	43	Resp:	26870
Ion	Ratio	Lower	Upper
43	100		
61	12.2	14.0	21.0#
87	6.9	7.9	11.9#



#48
Methyl methacrylate
Concen: 1.49 ug/l
RT: 9.113 min Scan# 2768
Delta R.T. -0.022 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

Tgt Ion:	41	Resp:	7458
Ion	Ratio	Lower	Upper
41	100		
69	0.0	54.7	82.1#
39	0.0	40.2	60.2#

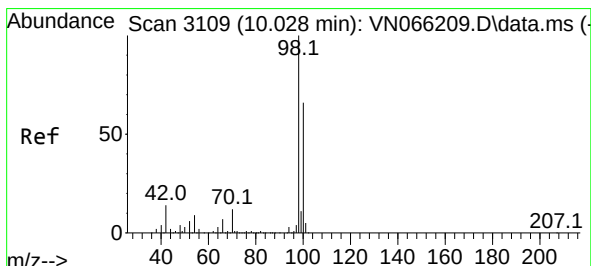
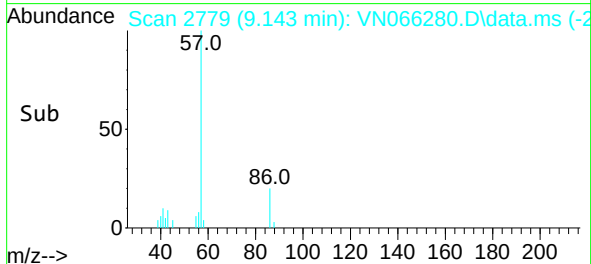
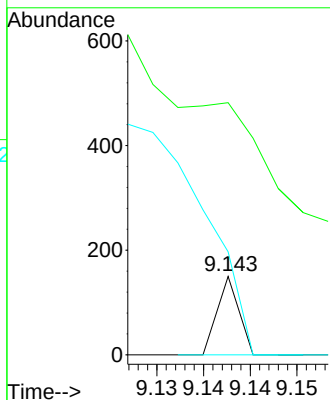
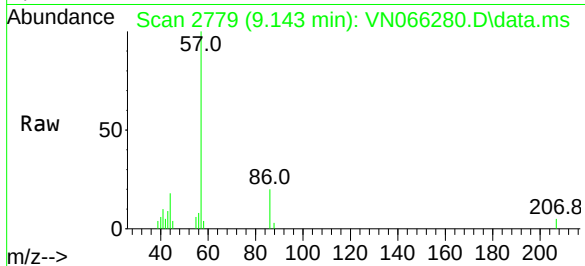




#49
1,4-Dioxane
Concen: 0.44 ug/l
RT: 9.143 min Scan# 2779
Delta R.T. 0.006 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

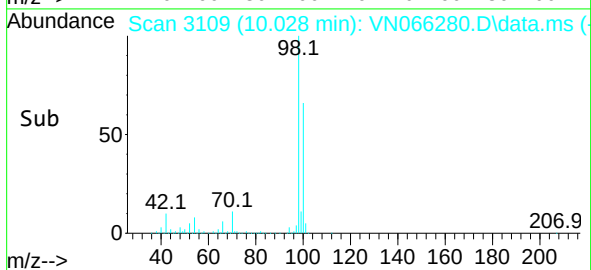
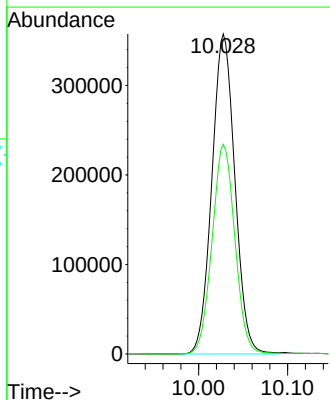
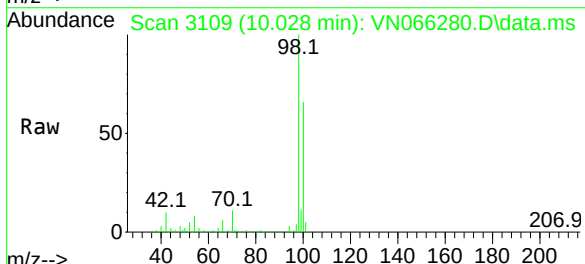
Instrument :
MSVOA_N
ClientSampleId :
SP-MANHOLE

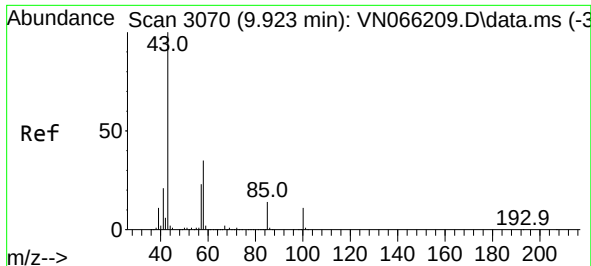
Tgt Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 0.0 34.4 51.6#
58 0.0 67.3 100.9#



#50
Toluene-d8
Concen: 55.22 ug/l
RT: 10.028 min Scan# 3109
Delta R.T. -0.000 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

Tgt Ion: 98 Resp: 641600
Ion Ratio Lower Upper
98 100
100 65.1 51.0 76.6

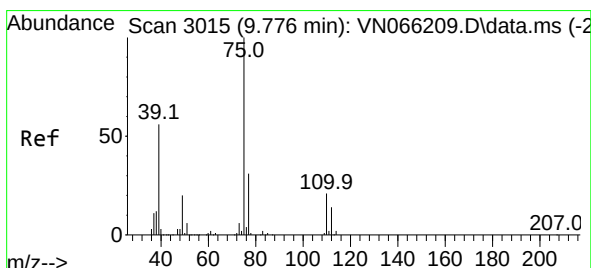
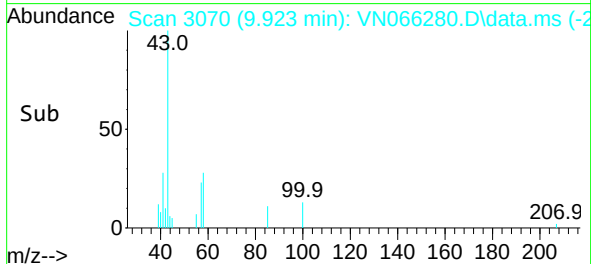
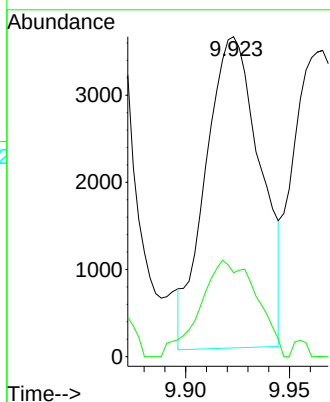
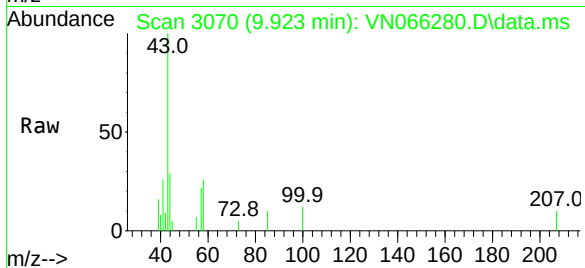




#51
4-Methyl-2-Pentanone
Concen: 1.03 ug/l
RT: 9.923 min Scan# 3070
Delta R.T. 0.000 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

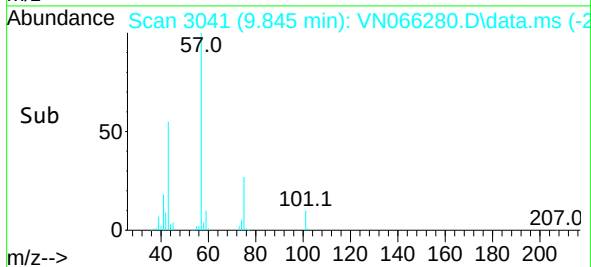
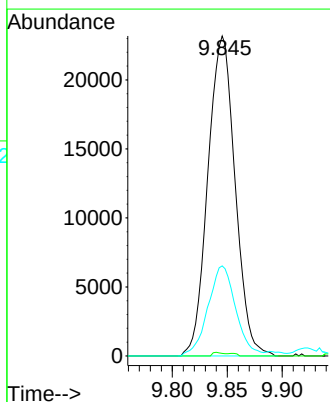
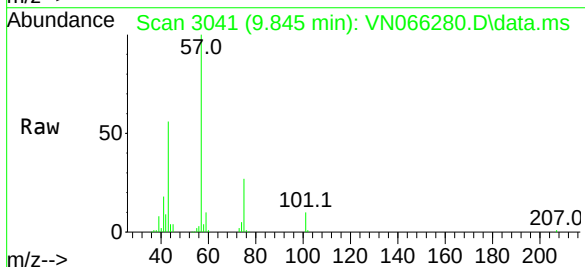
Instrument :
MSVOA_N
ClientSampleId :
SP-MANHOLE

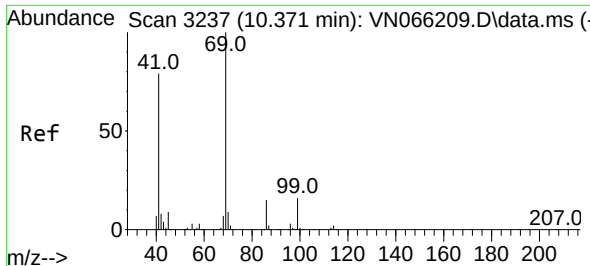
Tgt Ion: 43 Resp: 6535
Ion Ratio Lower Upper
43 100
58 32.0 27.5 41.3



#54
cis-1,3-Dichloropropene
Concen: 6.45 ug/l
RT: 9.845 min Scan# 3041
Delta R.T. 0.069 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

Tgt Ion: 75 Resp: 39902
Ion Ratio Lower Upper
75 100
77 0.8 25.0 37.4#
39 28.2 46.2 69.2#

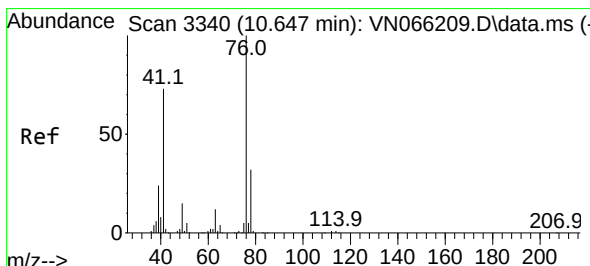
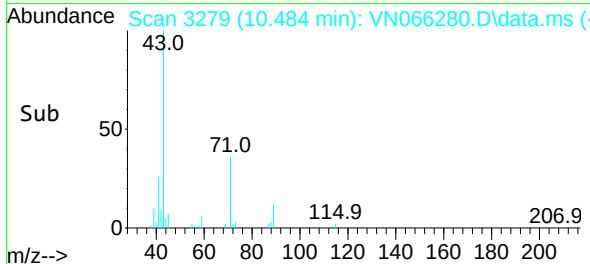
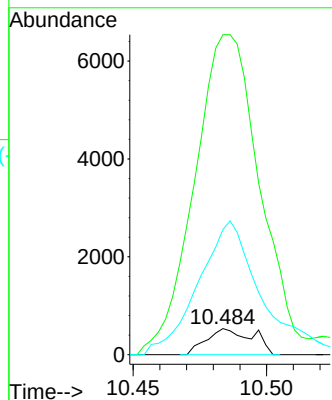
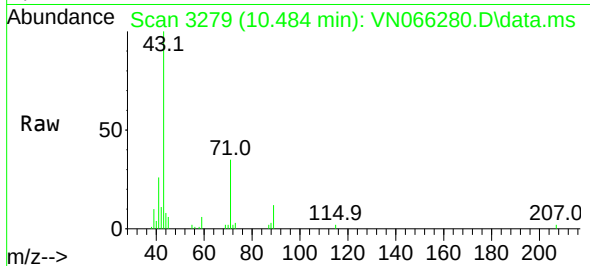




#56
Ethyl methacrylate
Concen: 2.26 ug/l
RT: 10.484 min Scan# 3279
Delta R.T. 0.113 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

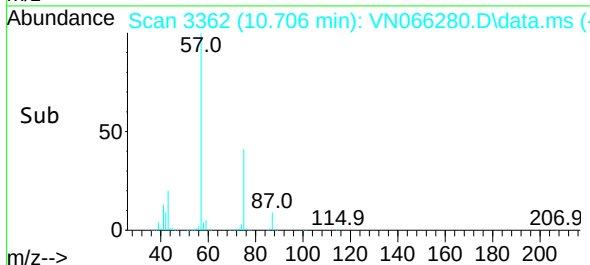
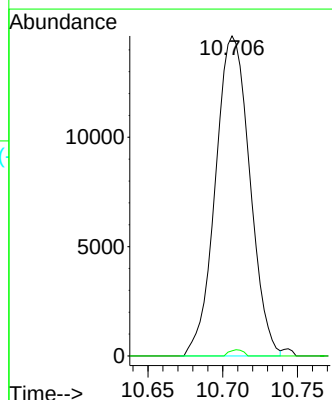
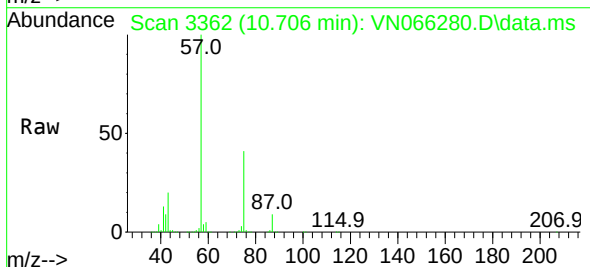
Instrument :
MSVOA_N
ClientSampled :
SP-MANHOLE

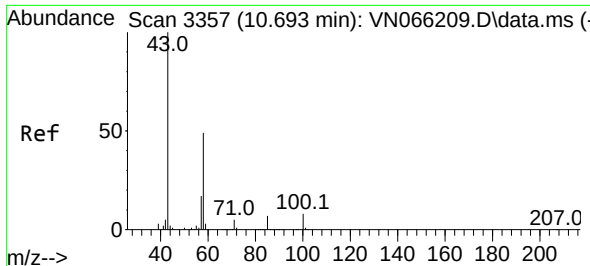
Tgt Ion: 69 Resp: 641
Ion Ratio Lower Upper
69 100
41 1738.5 66.2 99.4#
39 696.1 31.5 47.3#



#57
1,3-Dichloropropane
Concen: 3.82 ug/l
RT: 10.706 min Scan# 3362
Delta R.T. 0.059 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

Tgt Ion: 76 Resp: 23401
Ion Ratio Lower Upper
76 100
78 0.8 25.4 38.2#

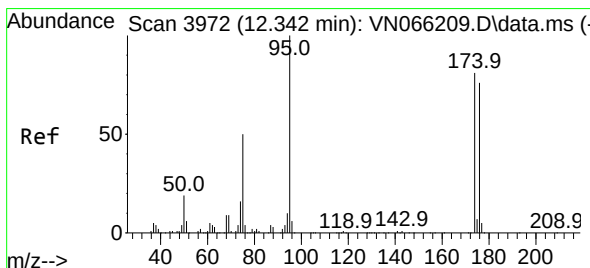
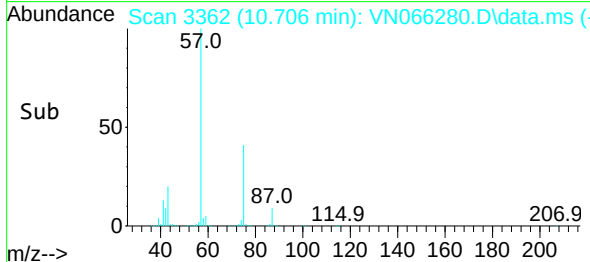
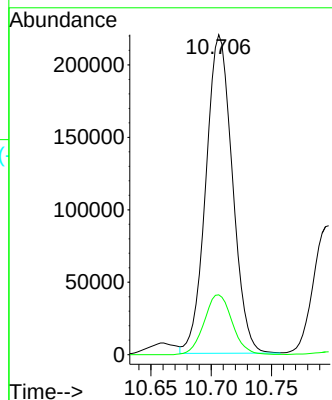
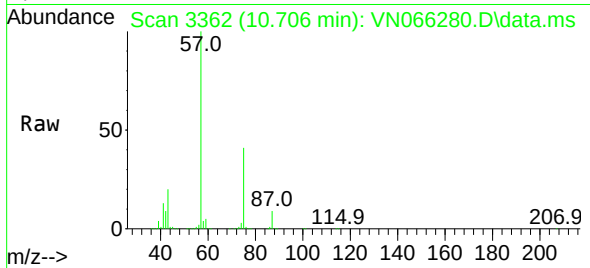




#59
2-Hexanone
Concen: 68.54 ug/l
RT: 10.706 min Scan# 3362
Delta R.T. 0.013 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

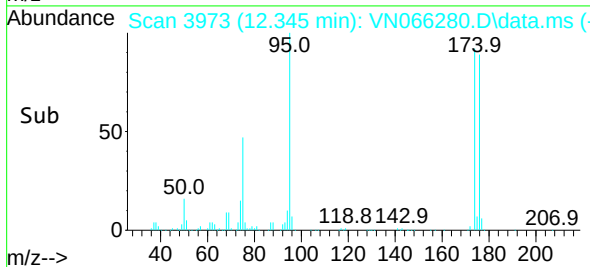
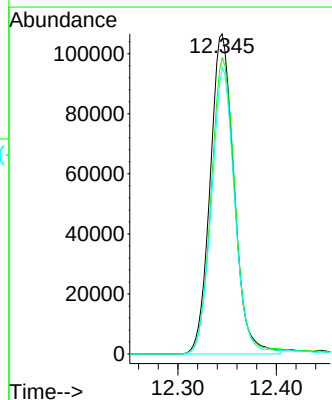
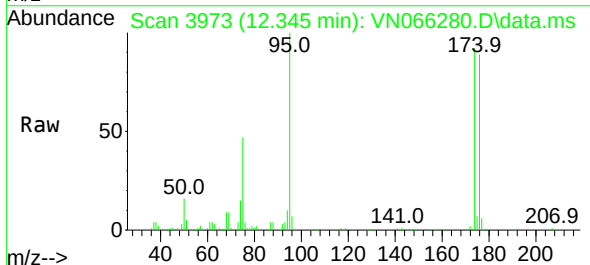
Instrument :
MSVOA_N
ClientSampleId :
SP-MANHOLE

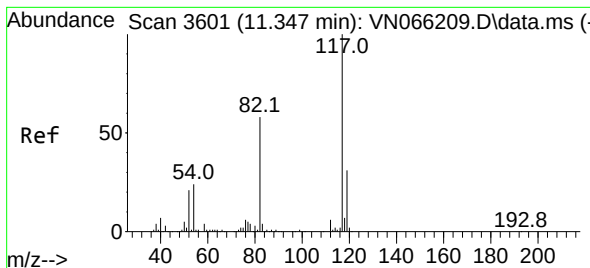
Tgt Ion: 43 Resp: 336553
Ion Ratio Lower Upper
43 100
58 20.0 23.8 71.5#



#62
4-Bromofluorobenzene
Concen: 42.96 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. 0.003 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

Tgt Ion: 95 Resp: 179930
Ion Ratio Lower Upper
95 100
174 93.2 0.0 162.4
176 87.4 0.0 156.2

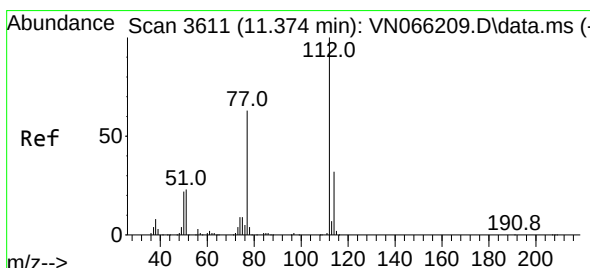
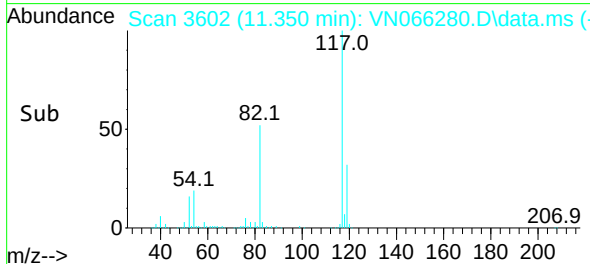
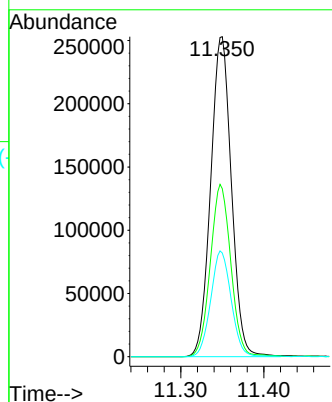
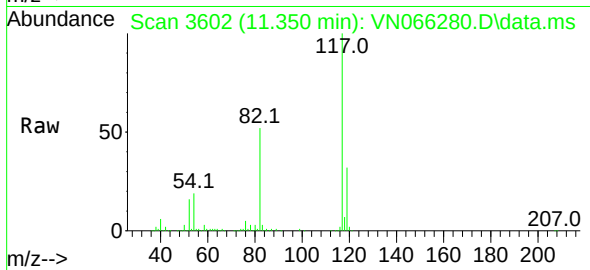




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.350 min Scan# 3602
Delta R.T. 0.003 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

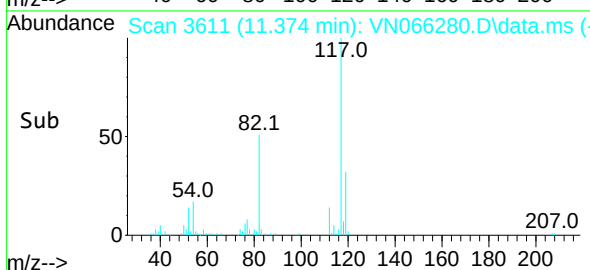
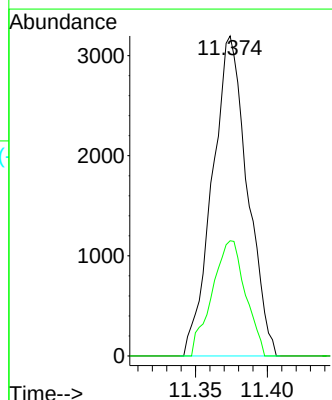
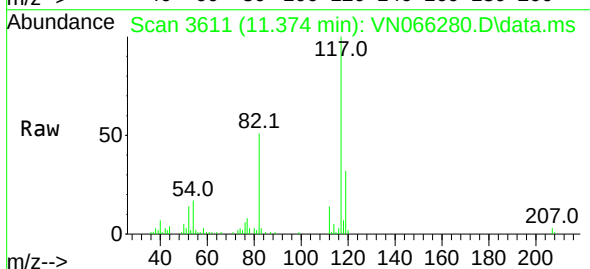
Instrument :
MSVOA_N
ClientSampleId :
SP-MANHOLE

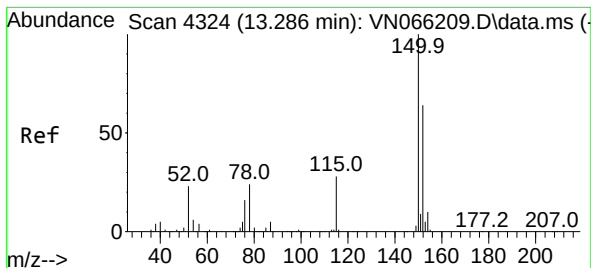
Tgt Ion:117 Resp: 438348
Ion Ratio Lower Upper
117 100
82 52.5 49.0 73.6
119 32.4 25.7 38.5



#65
Chlorobenzene
Concen: 0.62 ug/l
RT: 11.374 min Scan# 3611
Delta R.T. 0.000 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

Tgt Ion:112 Resp: 5425
Ion Ratio Lower Upper
112 100
114 36.0 25.4 38.0

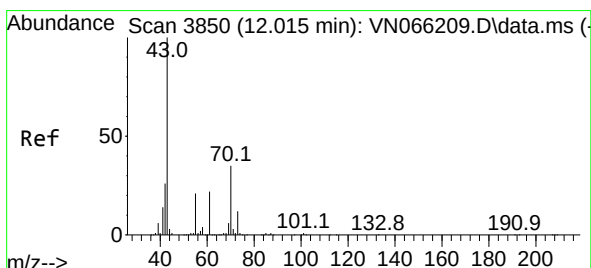
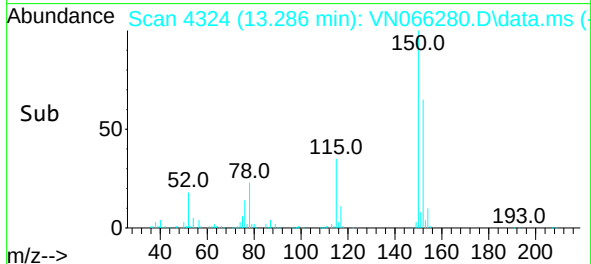
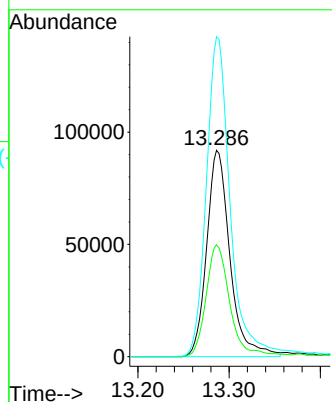
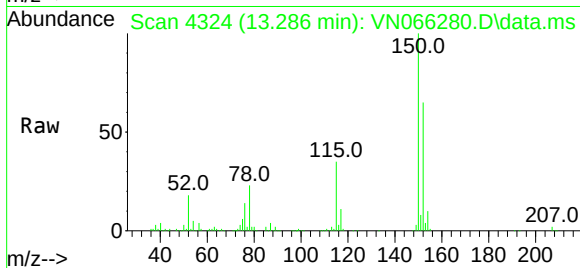




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.286 min Scan# 4324
Delta R.T. 0.000 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

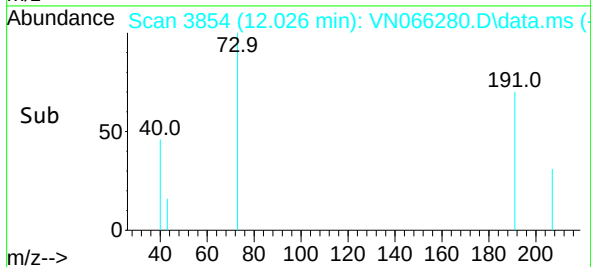
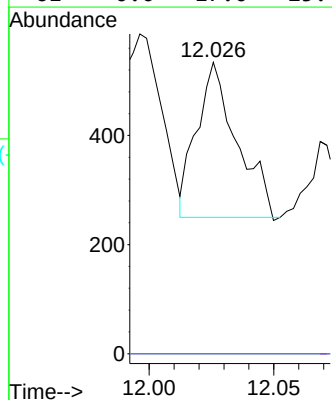
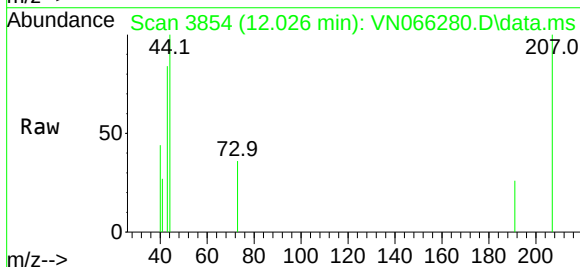
Instrument :
MSVOA_N
ClientSampleId :
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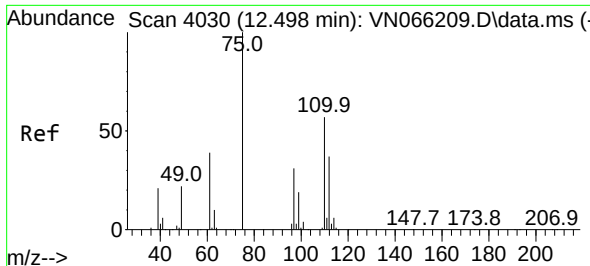
Tgt Ion:152 Resp: 163215
Ion Ratio Lower Upper
152 100
115 55.5 29.4 88.3
150 160.7 0.0 352.2



#74
N-ethyl acetate
Concen: 2.21 ug/l
RT: 12.026 min Scan# 3854
Delta R.T. 0.011 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

Tgt Ion: 43 Resp: 316
Ion Ratio Lower Upper
43 100
70 0.0 26.2 39.4#
55 0.0 17.2 25.8#
61 0.0 17.0 25.4#

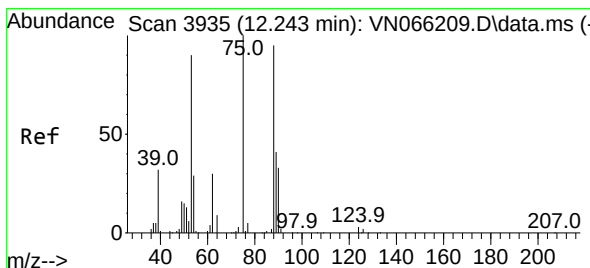
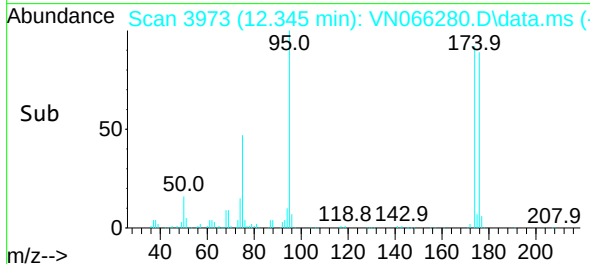
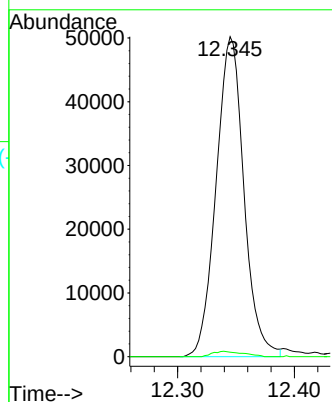
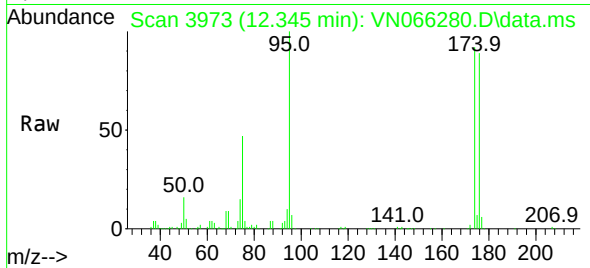




#76
1,2,3-Trichloropropane
Concen: 19.66 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. -0.153 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

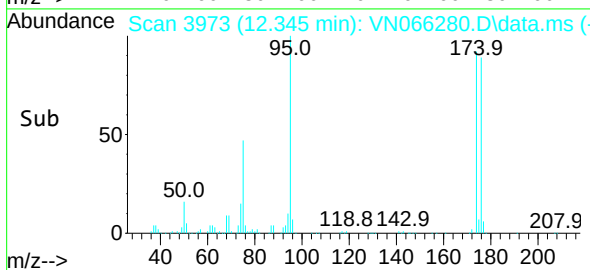
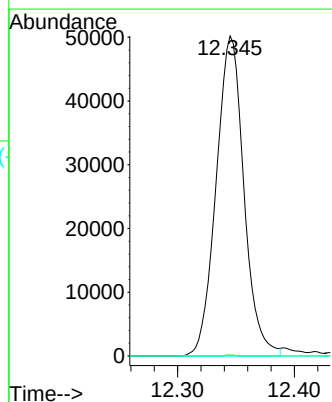
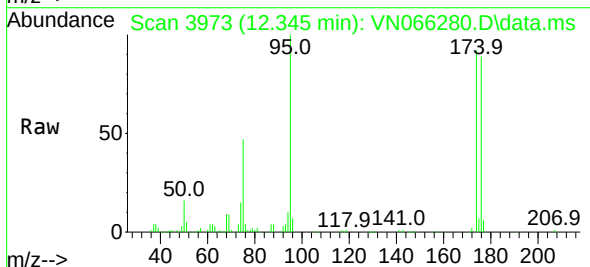
Instrument :
MSVOA_N
ClientSampleId :
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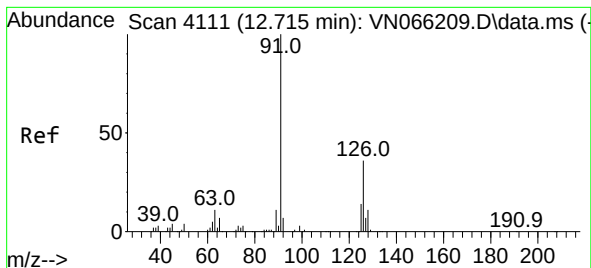
Tgt Ion: 75 Resp: 82881
Ion Ratio Lower Upper
75 100
77 1.9 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.84 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. 0.102 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

Tgt Ion: 75 Resp: 82881
Ion Ratio Lower Upper
75 100
53 0.1 77.8 116.6#
89 0.0 33.7 50.5#

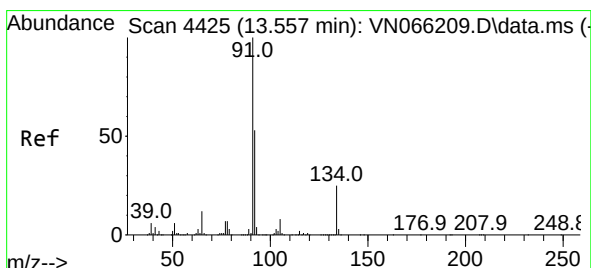
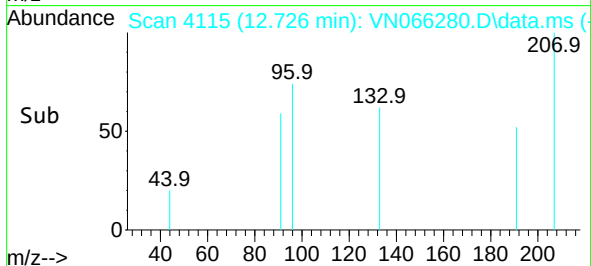
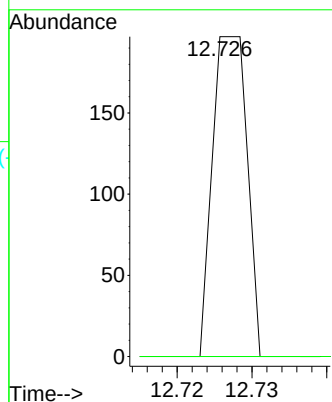
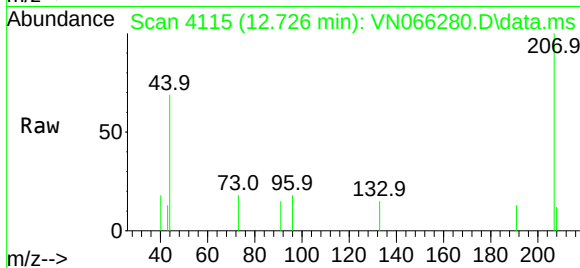




#82
4-Chlorotoluene
Concen: 0.48 ug/l
RT: 12.726 min Scan# 4115
Delta R.T. 0.011 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

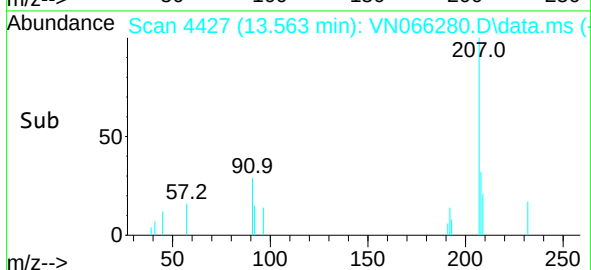
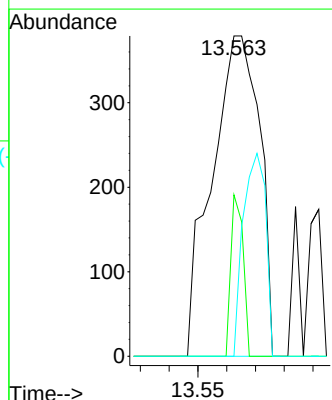
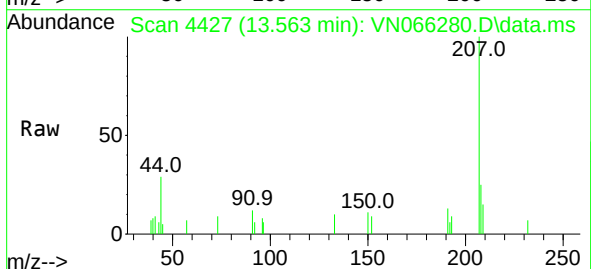
Instrument :
MSVOA_N
ClientSampled :
SP-MANHOLE

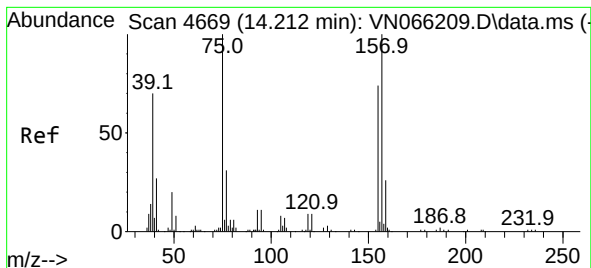
Tgt Ion: 91 Resp: 63
Ion Ratio Lower Upper
91 100
126 0.0 15.7 47.1#



#89
n-Butylbenzene
Concen: 2.28 ug/l
RT: 13.563 min Scan# 4427
Delta R.T. 0.005 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

Tgt Ion: 91 Resp: 437
Ion Ratio Lower Upper
91 100
92 12.8 25.7 77.0#
134 29.7 11.8 35.4

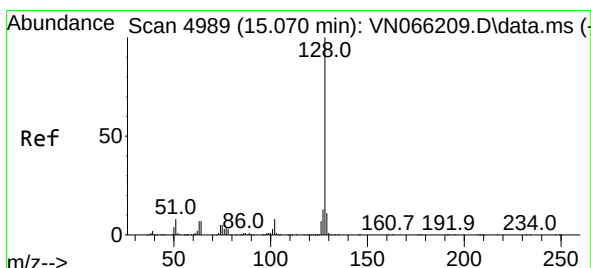
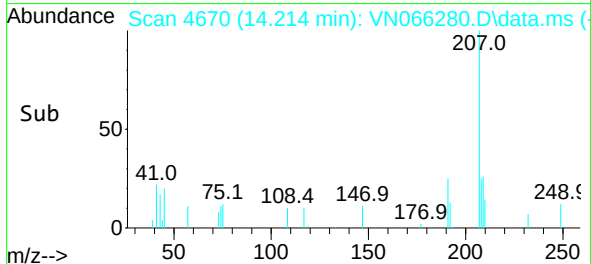
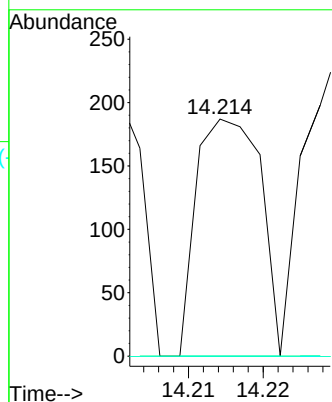
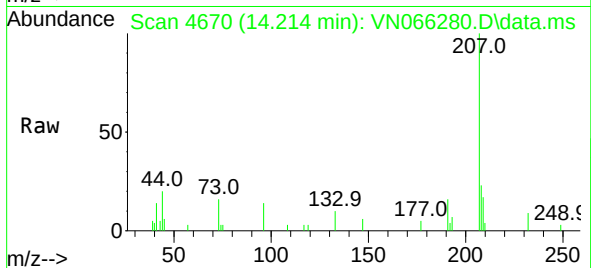




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.96 ug/l
RT: 14.214 min Scan# 4670
Delta R.T. 0.002 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

Instrument :
MSVOA_N
ClientSampled :
SP-MANHOLE

Tgt Ion: 75 Resp: 112
Ion Ratio Lower Upper
75 100
155 0.0 36.5 109.7#
157 0.0 46.3 138.8#



#95
Naphthalene
Concen: 0.26 ug/l
RT: 15.067 min Scan# 4988
Delta R.T. -0.003 min
Lab File: VN066280.D
Acq: 19 Mar 2021 15:05

Tgt Ion: 128 Resp: 2460
Ion Ratio Lower Upper
128 100
127 2.1 10.3 15.5#
129 0.0 8.4 12.6#

