

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012420\
 Data File : VN059845.D
 Acq On : 24 Jan 2020 15:07
 Operator : JC/MD
 Sample : L1244-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 25 00:28:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	211627	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	317544	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	283324	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	116397	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	111668	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
35) Dibromofluoromethane	7.57	113	95435	50.40	ug/l	0.00
Spiked Amount			Recovery	=	100.80%	
50) Toluene-d8	10.08	98	372815	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	12.40	95	125363	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	

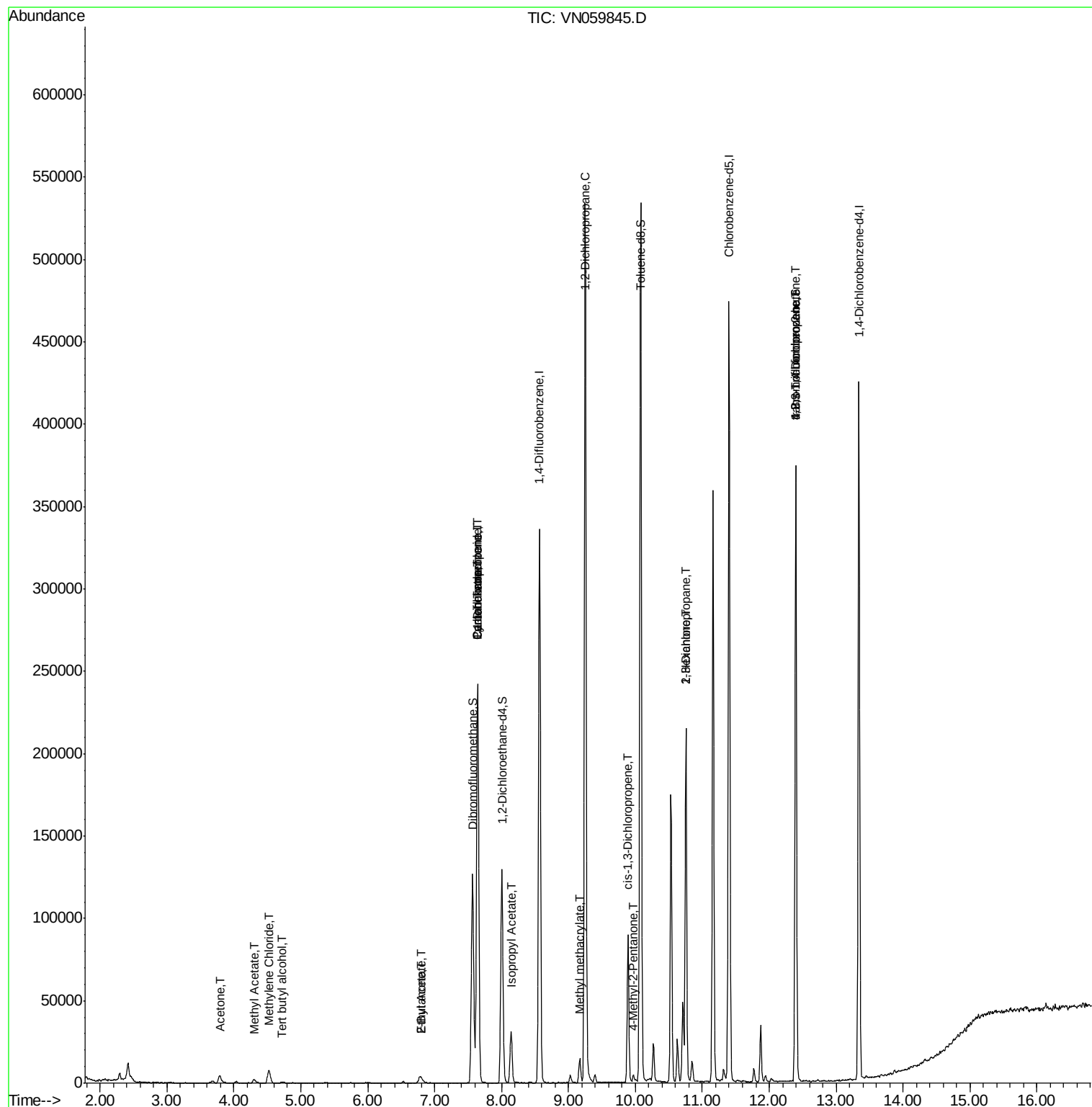
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	697	1.762	ug/l #	72
16) Acetone	3.79	43	8363	0.440	ug/l	90
18) Methyl Acetate	4.30	43	3931	1.432	ug/l	98
20) Methylene Chloride	4.52	84	6351	1.738	ug/l #	79
25) 2-Butanone	6.82	43	4311	3.239	ug/l	90
31) Cyclohexane	7.64	56	4316	1.241	ug/l #	27
36) 1,1-Dichloropropene	7.64	75	14164	5.122	ug/l #	50
37) Ethyl Acetate	6.82	43	4311	1.662	ug/l #	69
38) Carbon Tetrachloride	7.64	117	19619	6.522	ug/l #	16
43) Isopropyl Acetate	8.14	43	36930	8.278	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	471	0.231	ug/l #	44
48) Methyl methacrylate	9.16	41	2204	1.105	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3314	1.285	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	17731	5.202	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	2240	0.684	ug/l #	42
59) 2-Hexanone	10.75	43	29450	15.501	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	63055	32.190	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	63055	69.128	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.33	75	214	Below Cal	#	6

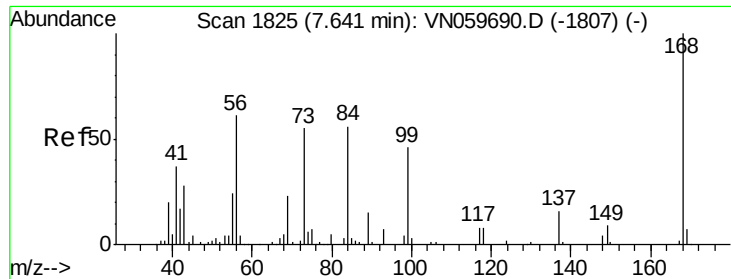
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059845.D

Acq: 24 Jan 2020 15:07

Instrument :

MSVOA_N

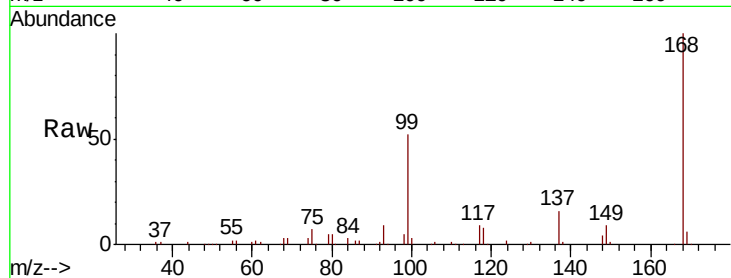
ClientSampleId :

Tot Ion:168 Resp: 211627

Ion Ratio Lower Upper

168 100

99 52.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059690.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059690.D (-1807) (-)

7.64

80000

60000

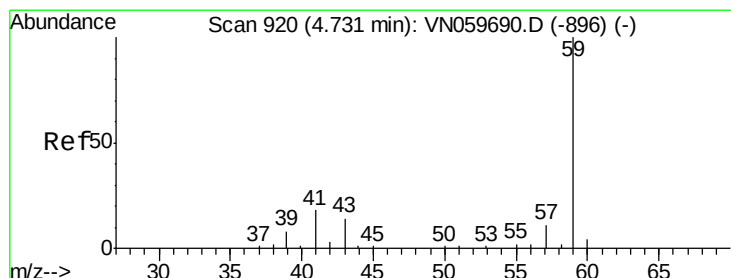
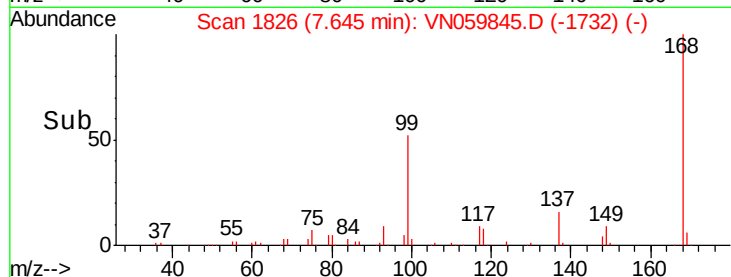
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 1.762 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.01 min

Lab File: VN059845.D

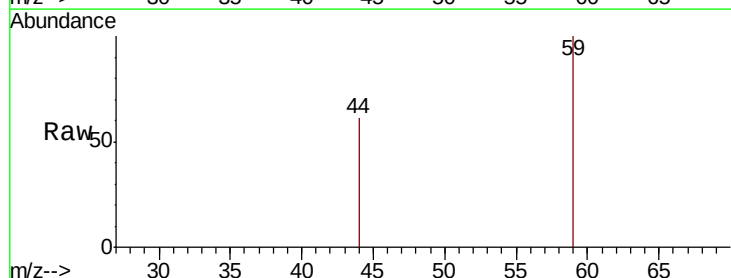
Acq: 24 Jan 2020 15:07

Tgt Ion: 59 Resp: 697

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN059690.D (-896) (-)

Ion 57.00 (56.70 to 57.70): VN059690.D (-896) (-)

4.73

300

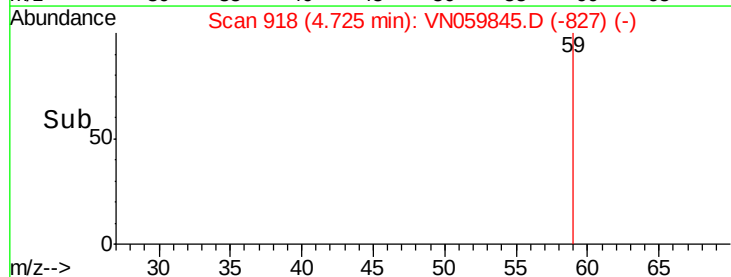
200

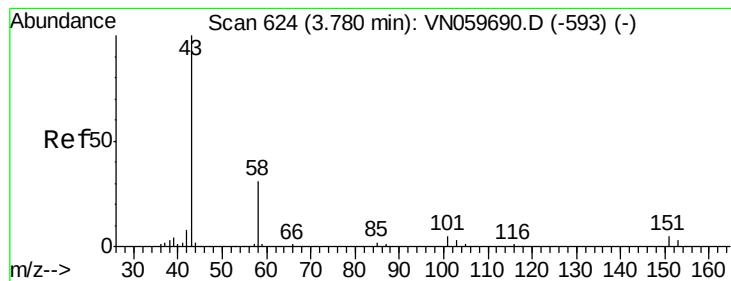
100

0

4.70 4.75

Time-->





#16

Acetone

Concen: 0.440 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059845.D

Acq: 24 Jan 2020 15:07

Instrument :

MSVOA_N

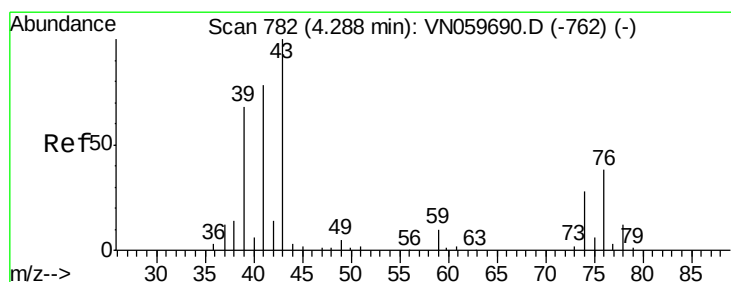
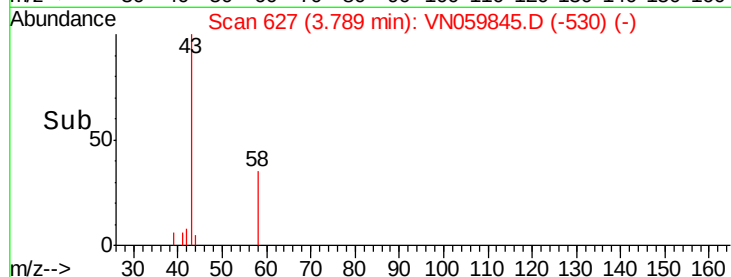
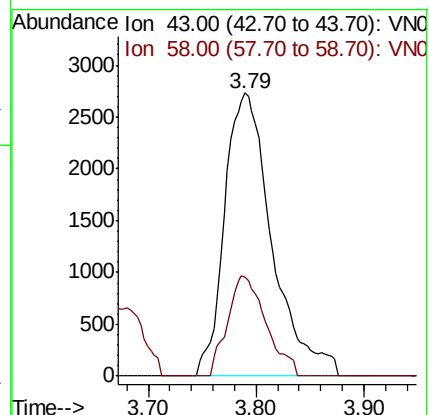
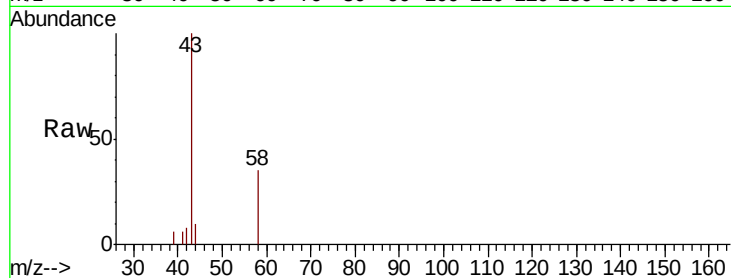
ClientSampled :

Tot Ion: 43 Resp: 8363

Ion Ratio Lower Upper

43 100

58 35.1 23.6 35.4



#18

Methyl Acetate

Concen: 1.432 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.01 min

Lab File: VN059845.D

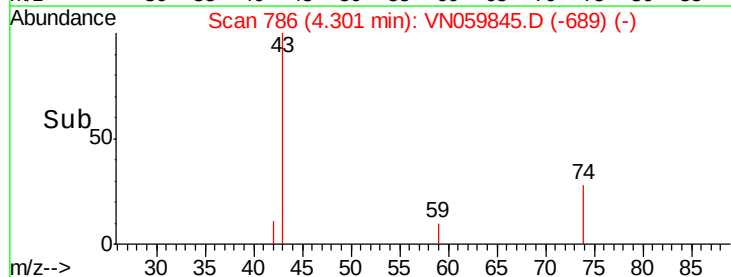
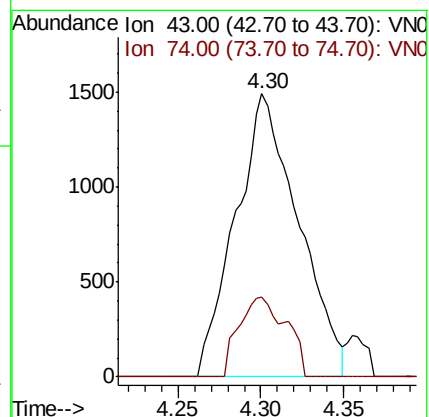
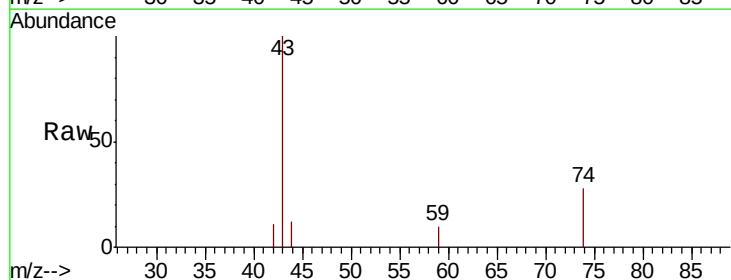
Acq: 24 Jan 2020 15:07

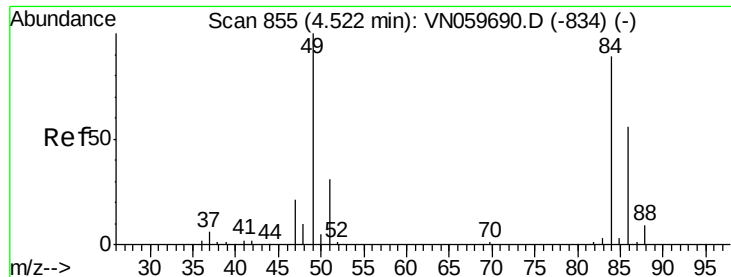
Tgt Ion: 43 Resp: 3931

Ion Ratio Lower Upper

43 100

74 20.9 17.5 26.3

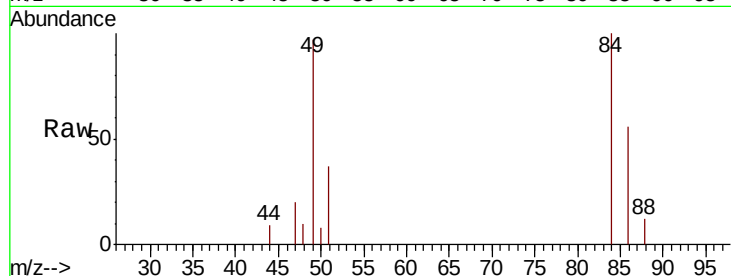




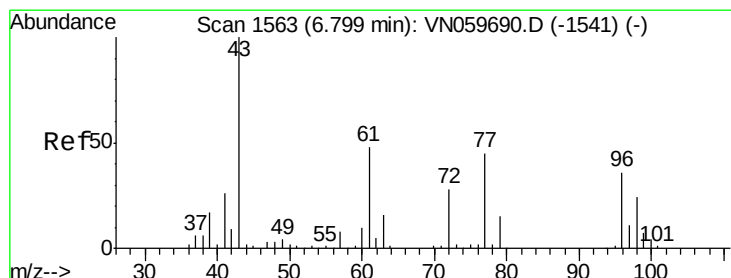
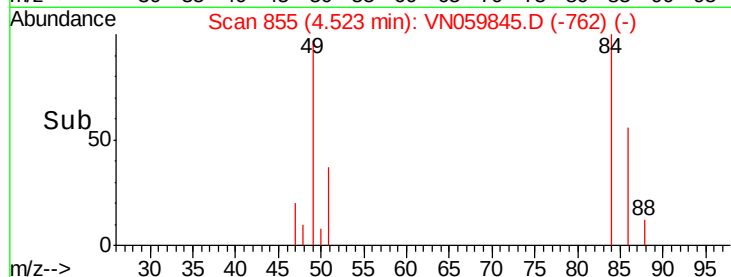
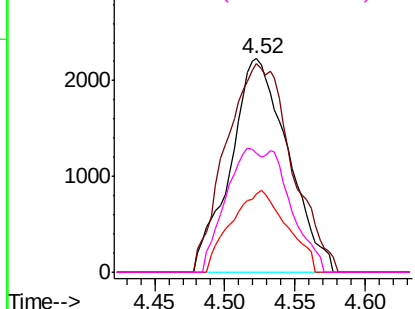
#20
Methvlene Chloride
Concen: 1.738 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059845.D
Acq: 24 Jan 2020 15:07

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 6351
Ion Ratio Lower Upper
84 100
49 97.5 106.6 160.0#
51 36.8 31.9 47.9
86 55.9 50.8 76.2

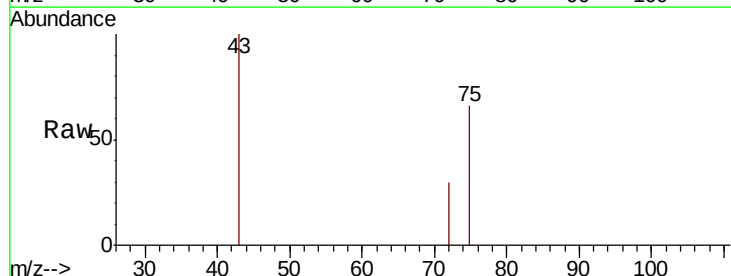


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

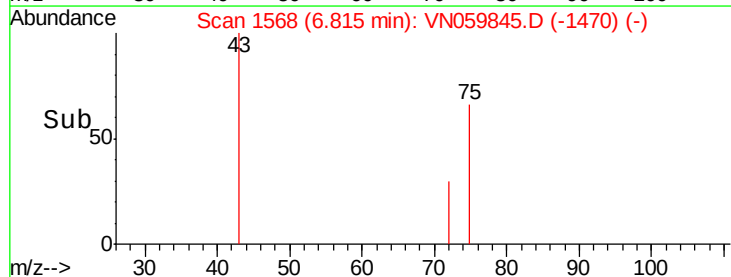
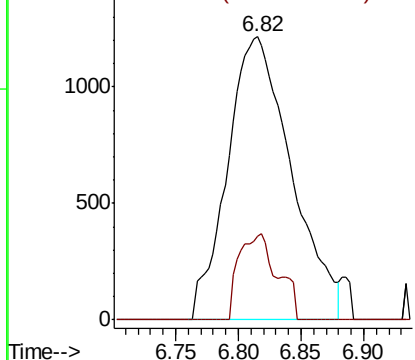


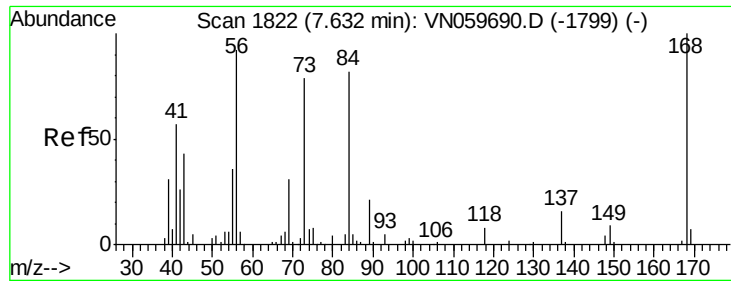
#25
2-Butanone
Concen: 3.239 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN059845.D
Acq: 24 Jan 2020 15:07

Tgt Ion: 43 Resp: 4311
Ion Ratio Lower Upper
43 100
72 29.7 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

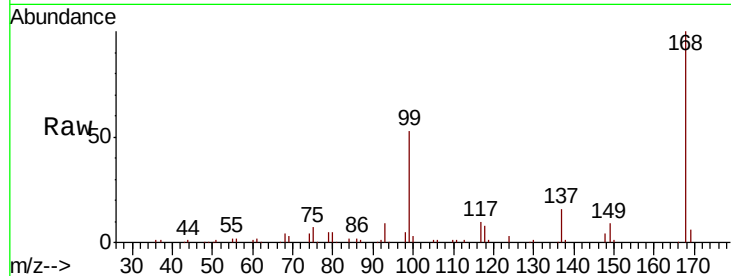




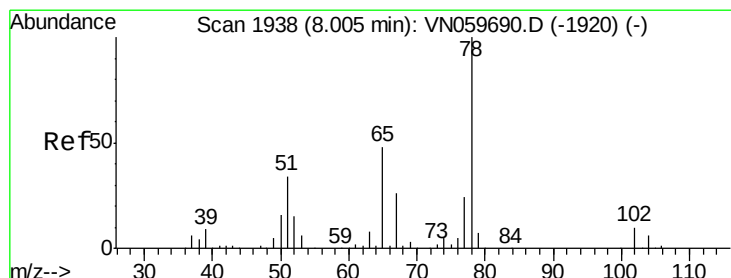
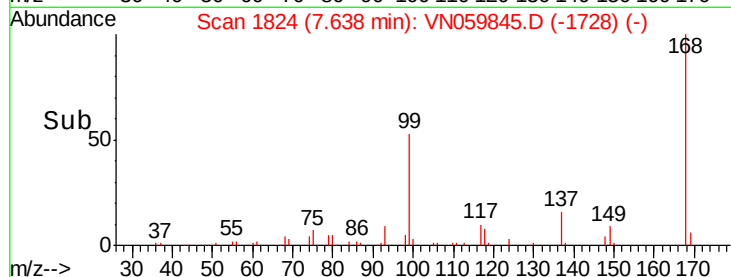
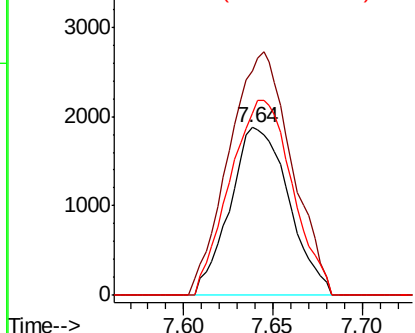
#31
Cyclohexane
Concen: 1.241 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059845.D
Acq: 24 Jan 2020 15:07

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4316
Ion Ratio Lower Upper
56 100
69 134.0 26.5 39.7#
84 108.8 65.3 97.9#

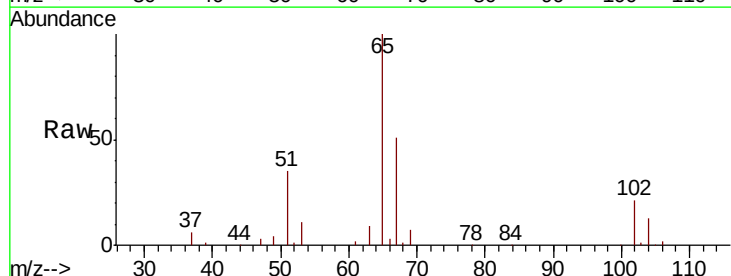


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

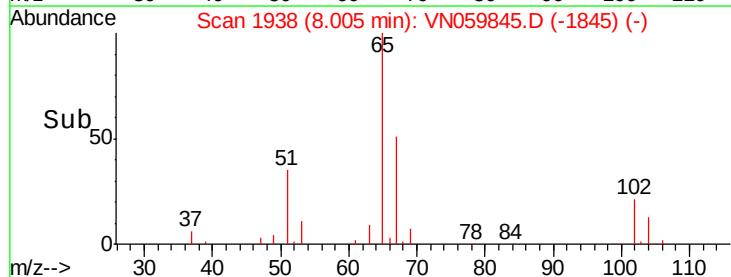
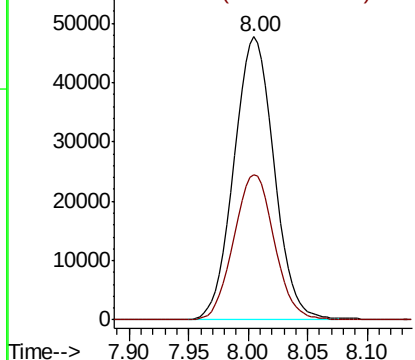


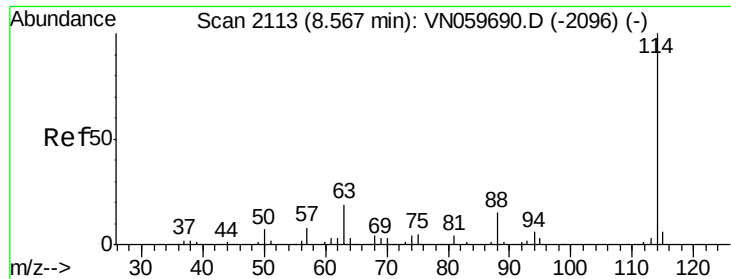
#33
1,2-Dichloroethane-d4
Concen: 47.515 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059845.D
Acq: 24 Jan 2020 15:07

Tgt Ion: 65 Resp: 111668
Ion Ratio Lower Upper
65 100
67 51.8 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

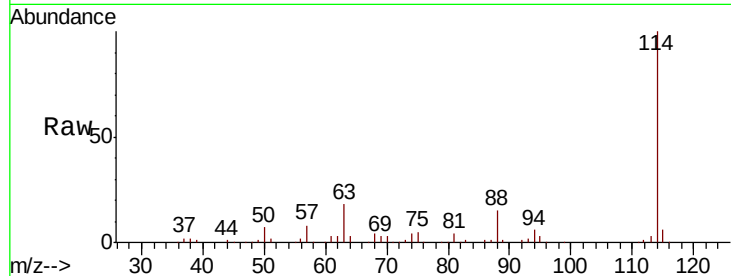




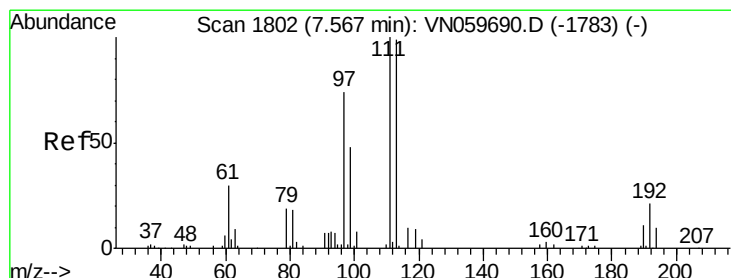
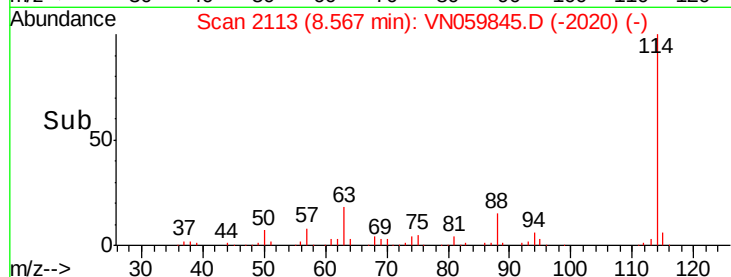
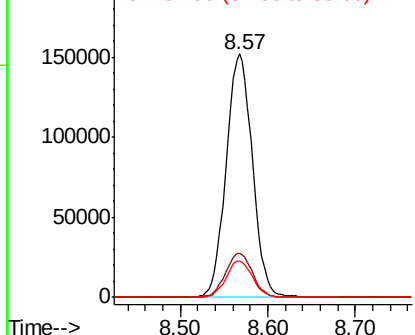
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059845.D
 Acq: 24 Jan 2020 15:07

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 317544
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 43.6
 88 14.8 0.0 31.4

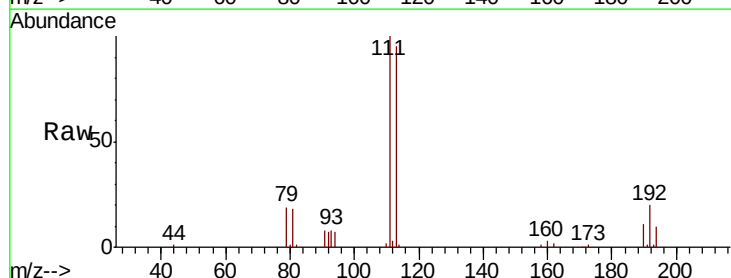


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

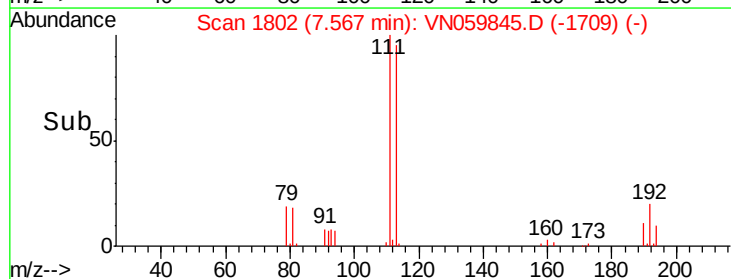
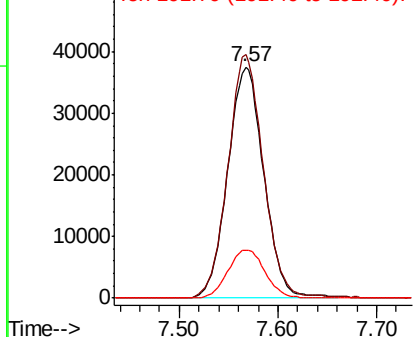


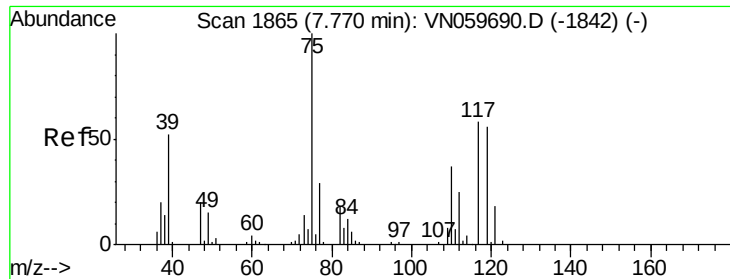
#35
 Dibromofluoromethane
 Concen: 50.397 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059845.D
 Acq: 24 Jan 2020 15:07

Tgt Ion:113 Resp: 95435
 Ion Ratio Lower Upper
 113 100
 111 102.6 83.5 125.3
 192 21.5 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

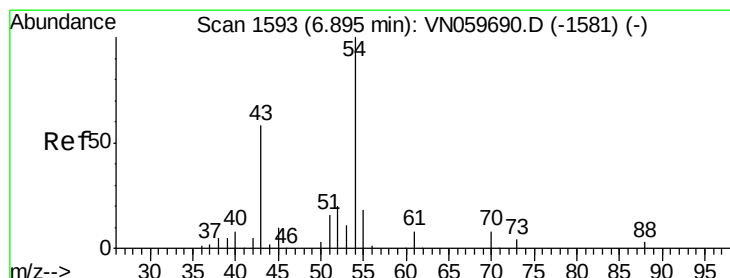
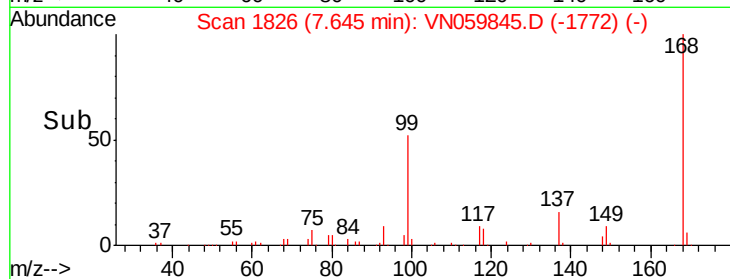
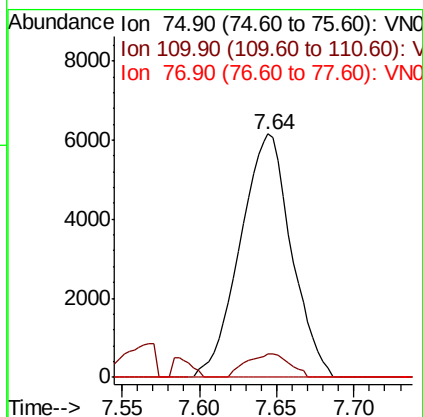
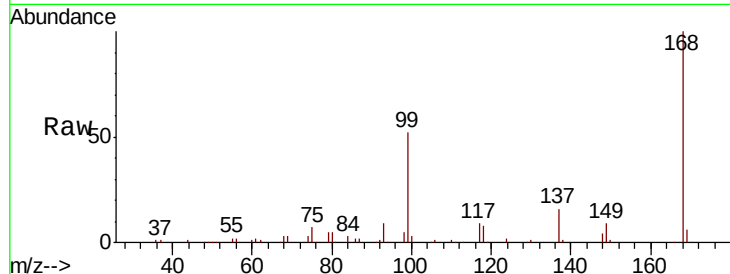




#36
 1,1-Dichloropropene
 Concen: 5.122 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059845.D
 Acq: 24 Jan 2020 15:07

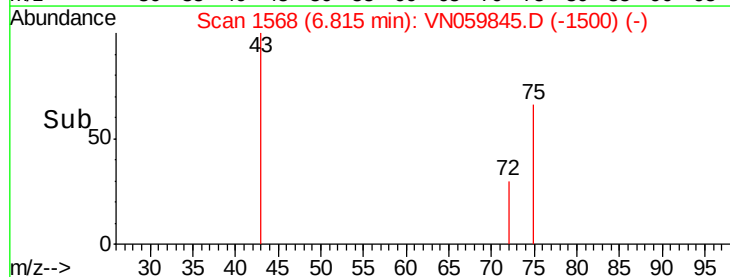
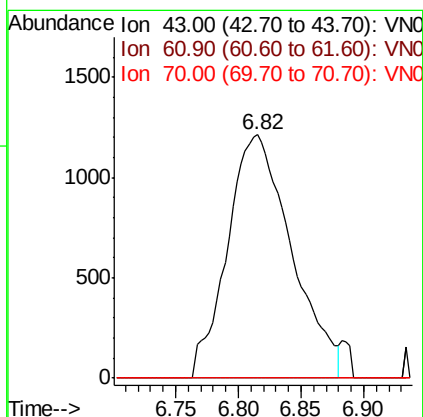
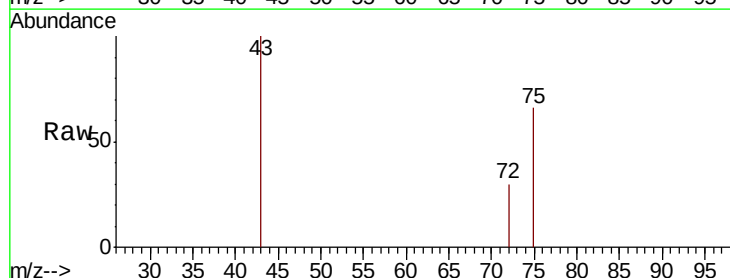
Instrument :
 MSVOA_N
 ClientSampled :

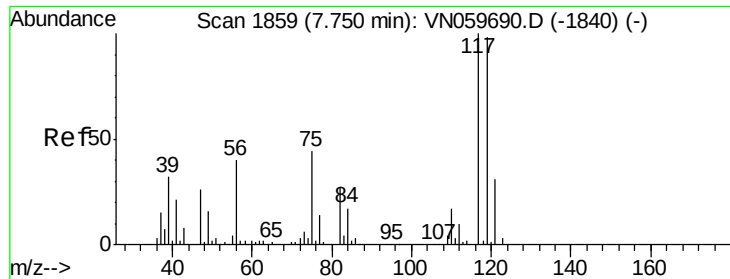
Tot Ion	75	Resp	14164
Ion Ratio	Lower	Upper	
75	100		
110	8.1	16.6	49.7#
77	0.0	25.1	37.7#



#37
 Ethyl Acetate
 Concen: 1.662 ug/l
 RT: 6.82 min Scan# 1568
 Delta R.T. -0.08 min
 Lab File: VN059845.D
 Acq: 24 Jan 2020 15:07

Tgt Ion	43	Resp	4311
Ion Ratio	Lower	Upper	
43	100		
61	0.0	10.9	16.3#
70	0.0	7.7	11.5#





#38

Carbon Tetrachloride

Concen: 6.522 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059845.D

Acq: 24 Jan 2020 15:07

Instrument :
MSVOA_N
ClientSampled :

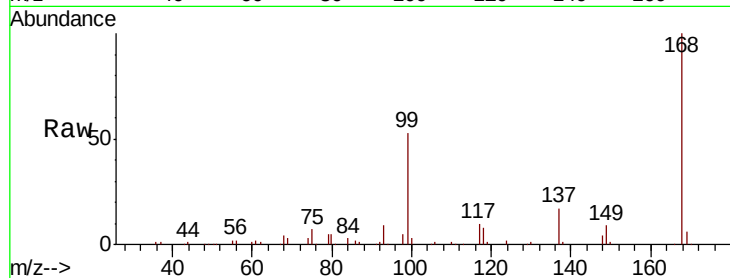
Tot Ion:117 Resp: 19619

Ion Ratio Lower Upper

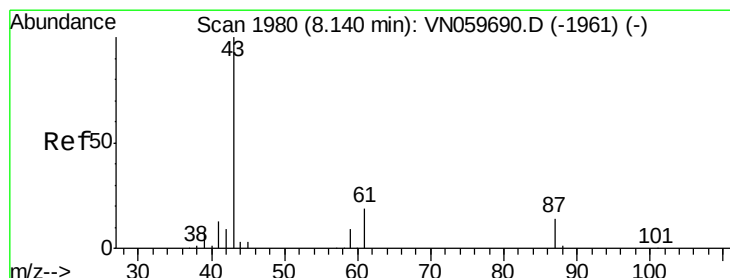
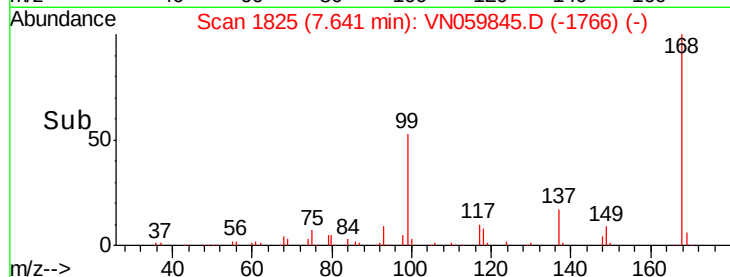
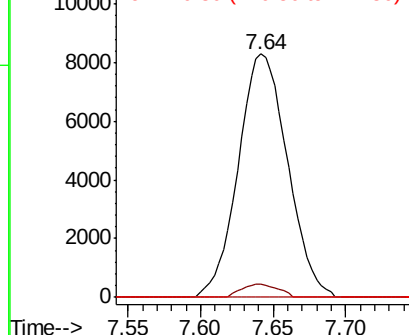
117 100

119 5.5 76.5 114.7#

121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 8.278 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059845.D

Acq: 24 Jan 2020 15:07

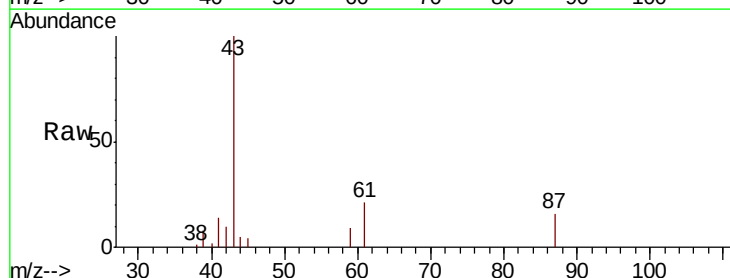
Tgt Ion: 43 Resp: 36930

Ion Ratio Lower Upper

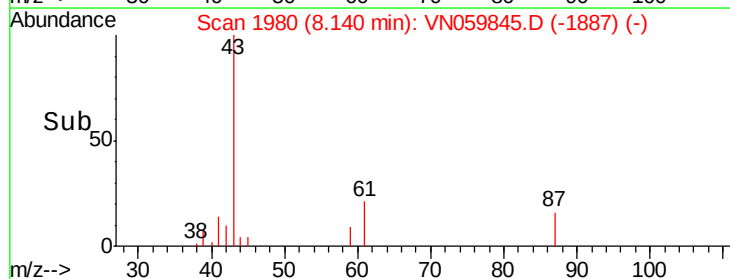
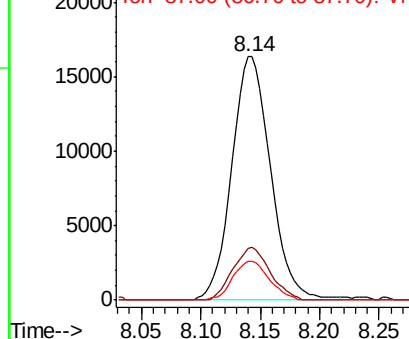
43 100

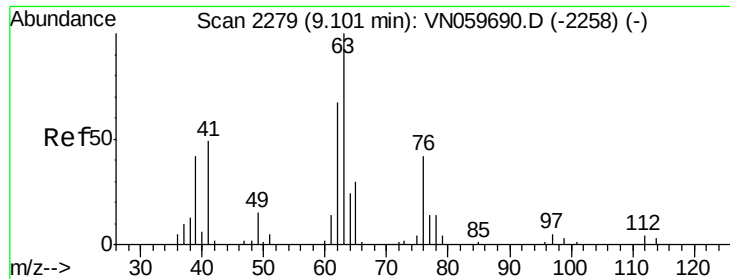
61 20.7 20.2 30.2

87 14.9 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.231 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059845.D

Acq: 24 Jan 2020 15:07

Instrument :

MSVOA_N

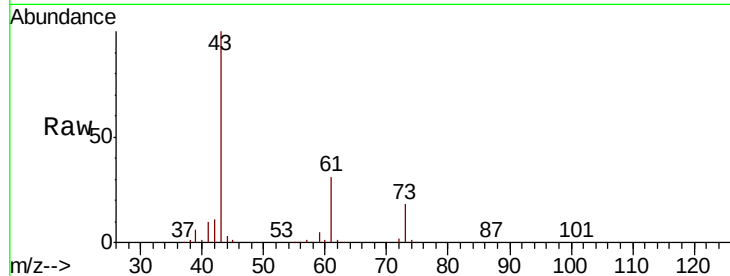
ClientSampled :

Tot Ion: 63 Resp: 471

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

400

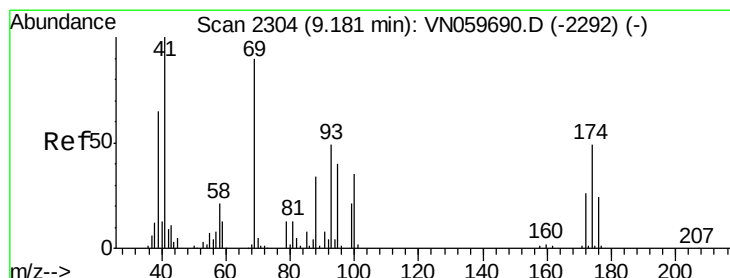
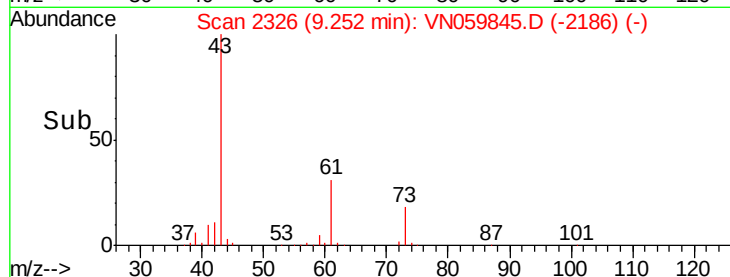
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.105 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN059845.D

Acq: 24 Jan 2020 15:07

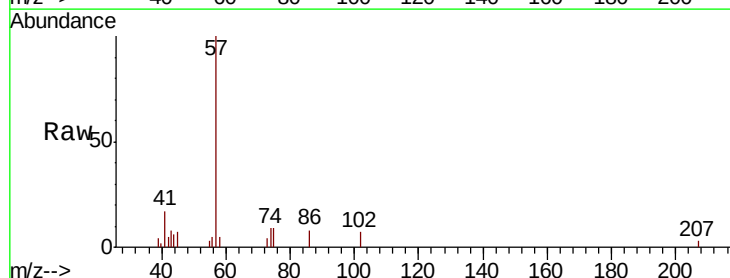
Tgt Ion: 41 Resp: 2204

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

39 0.0 51.3 76.9#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

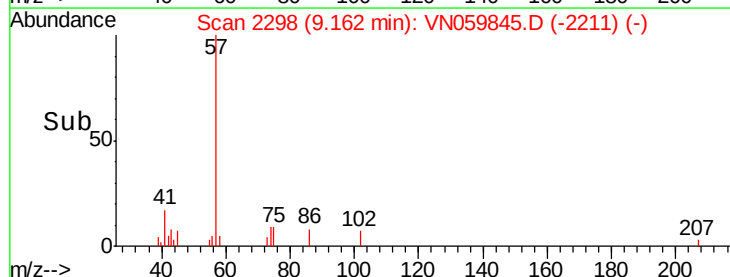
15000

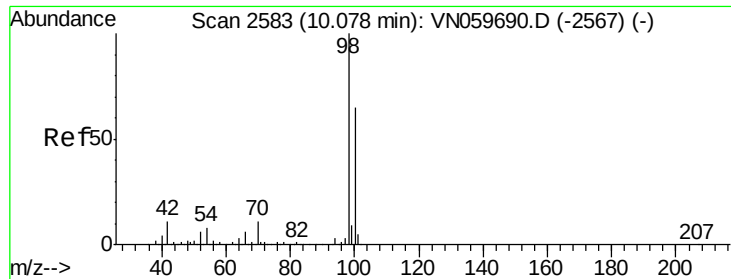
10000

5000

0

Time-->





#50

Toluene-d8

Concen: 50.813 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059845.D

Acq: 24 Jan 2020 15:07

Instrument :

MSVOA_N

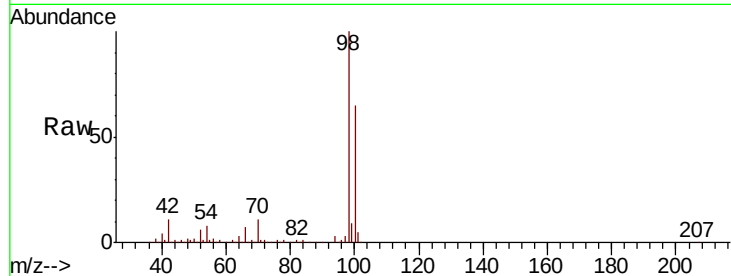
ClientSampleId :

Tot Ion: 98 Resp: 372815

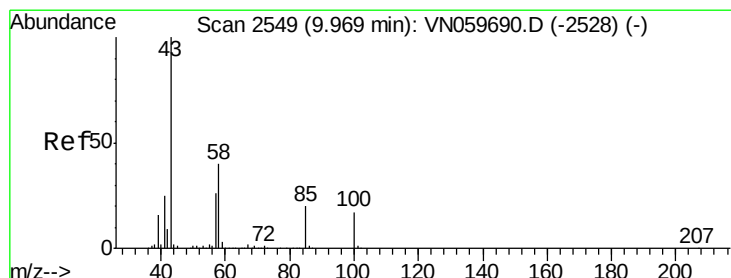
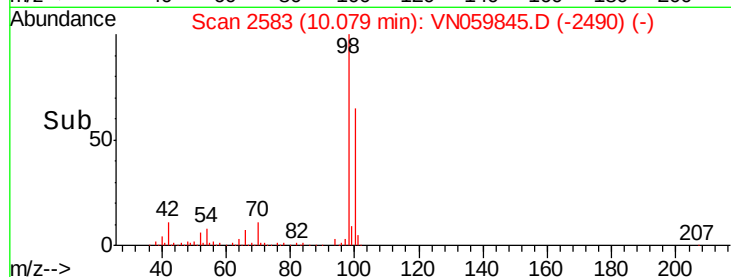
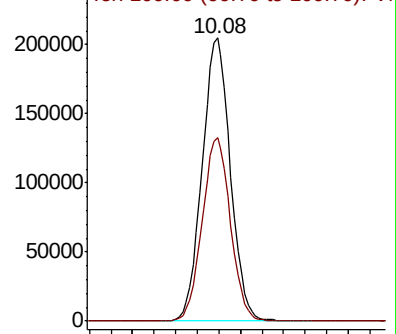
Ion Ratio Lower Upper

98 100

100 64.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN059690.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.285 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059845.D

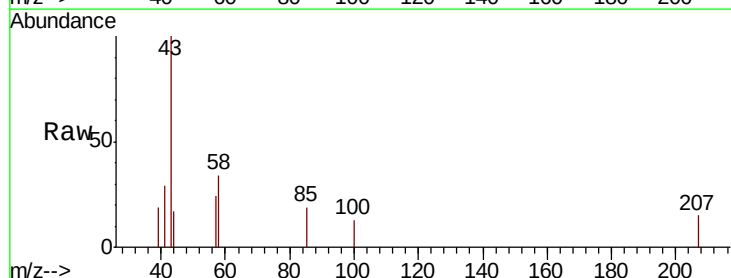
Acq: 24 Jan 2020 15:07

Tgt Ion: 43 Resp: 3314

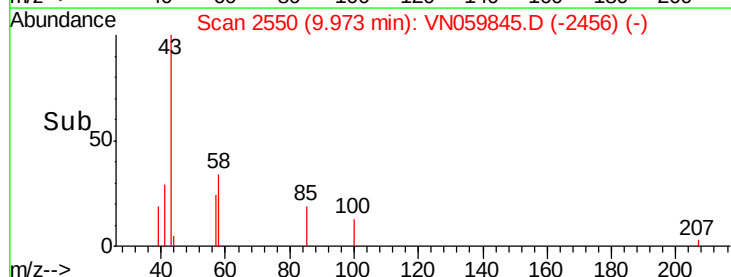
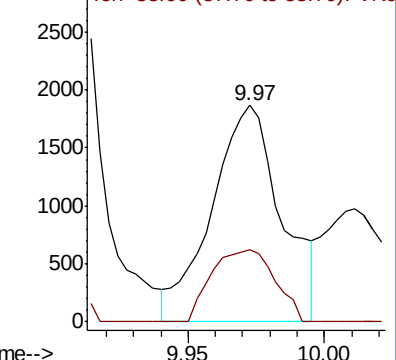
Ion Ratio Lower Upper

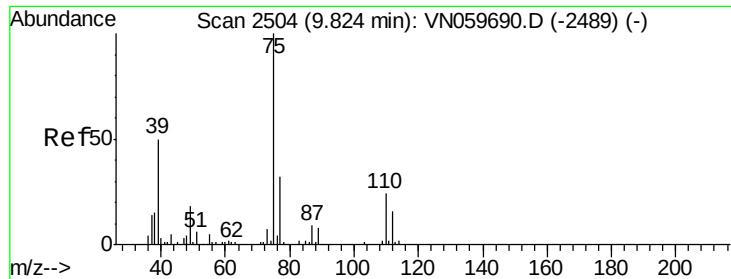
43 100

58 30.4 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-2528) (-)



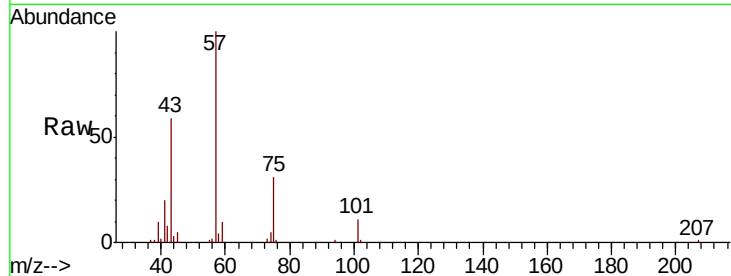


#54

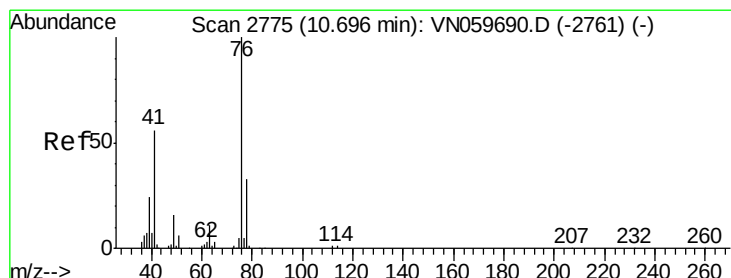
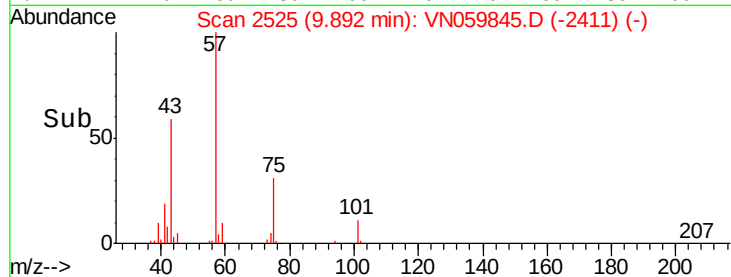
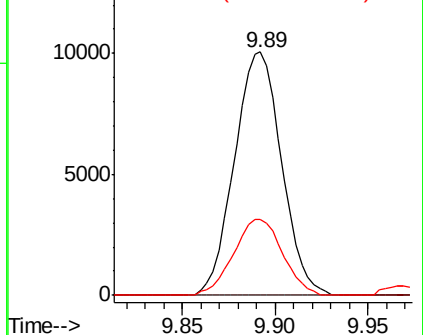
cis-1,3-Dichloropropene
 Concen: 5.202 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN059845.D
 Acq: 24 Jan 2020 15:07

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.1	37.7#
39	31.4	46.1	69.1#



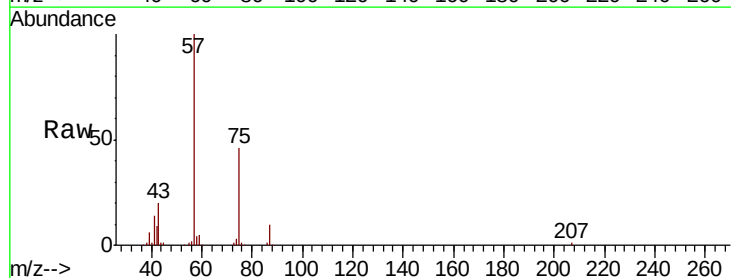
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



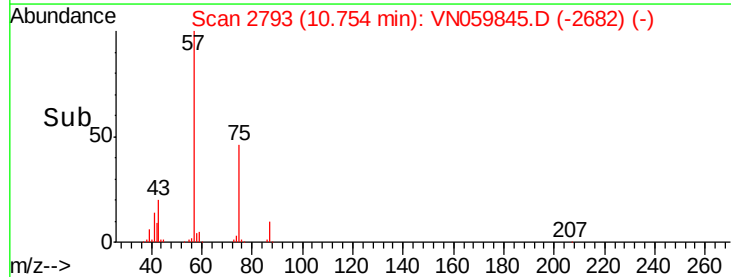
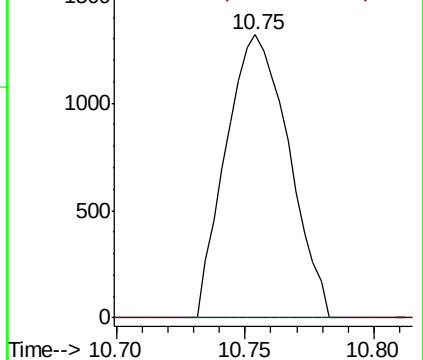
#57

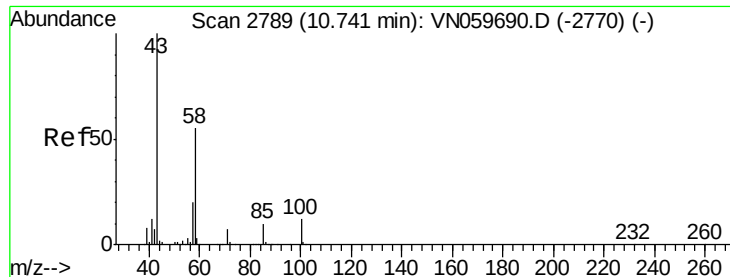
1,3-Dichloropropane
 Concen: 0.684 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059845.D
 Acq: 24 Jan 2020 15:07

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.8	38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 15.501 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059845.D

Acq: 24 Jan 2020 15:07

Instrument :

MSVOA_N

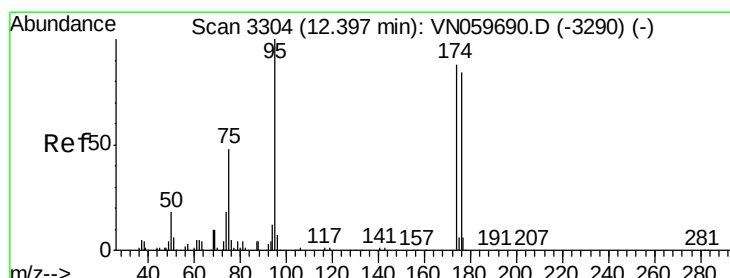
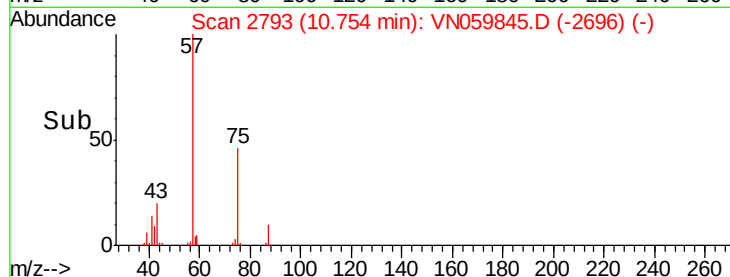
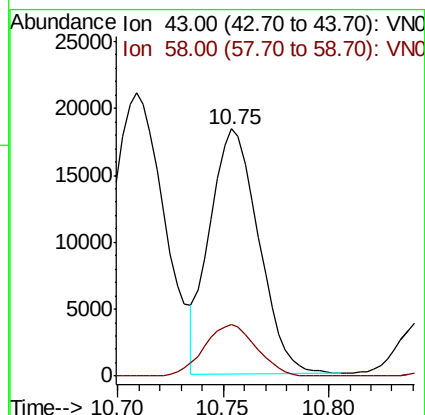
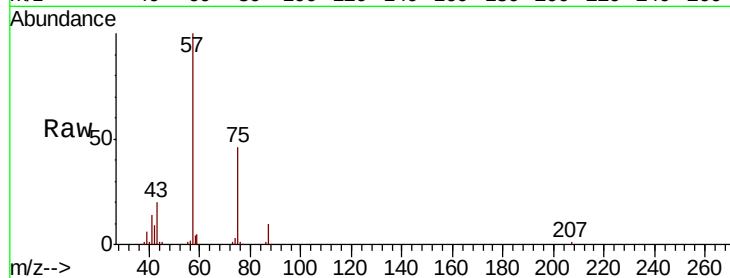
ClientSampled :

Tot Ion: 43 Resp: 29450

Ion Ratio Lower Upper

43 100

58 22.4 25.8 77.3#



#62

4-Bromofluorobenzene

Concen: 47.397 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059845.D

Acq: 24 Jan 2020 15:07

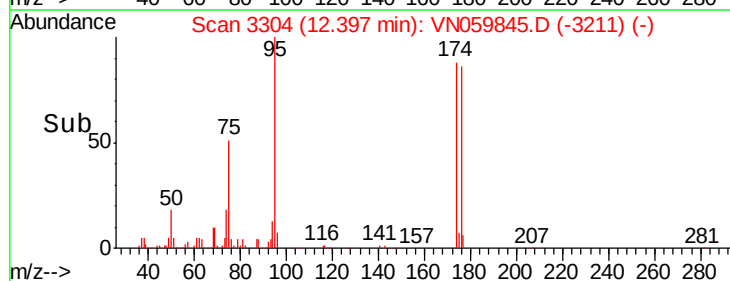
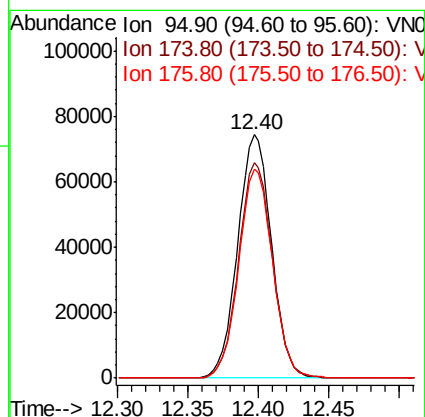
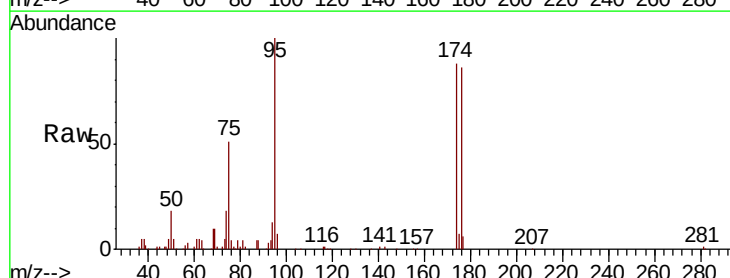
Tgt Ion: 95 Resp: 125363

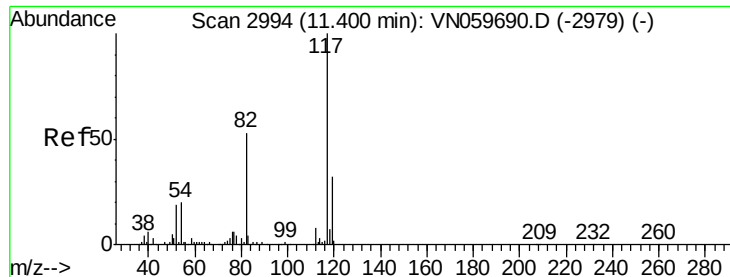
Ion Ratio Lower Upper

95 100

174 88.5 0.0 151.4

176 85.8 0.0 146.0

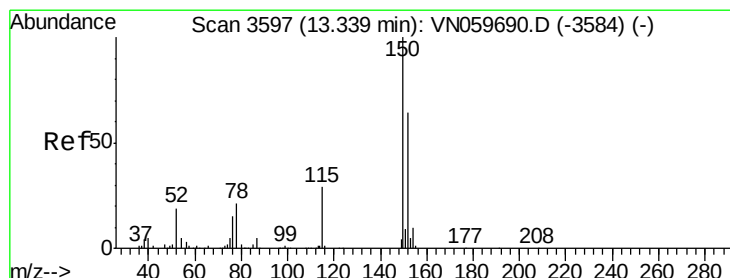
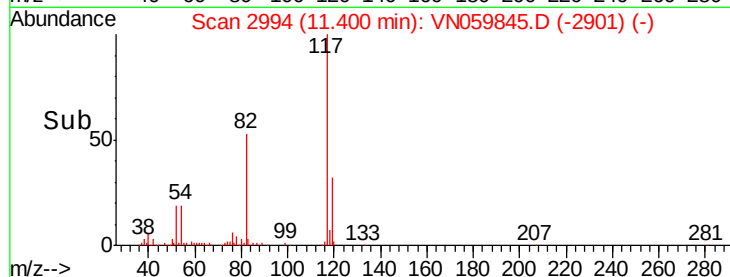
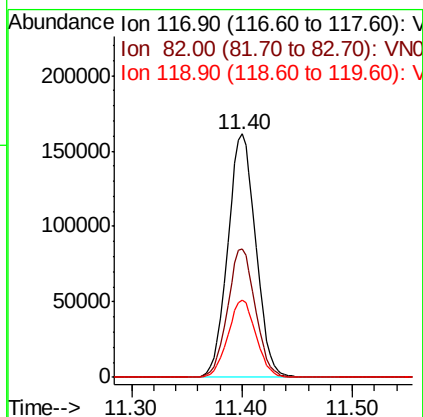
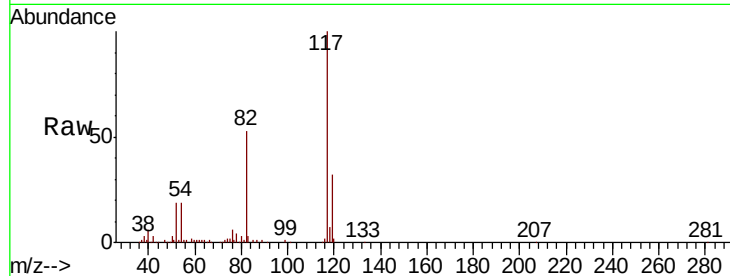




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059845.D
Acq: 24 Jan 2020 15:07

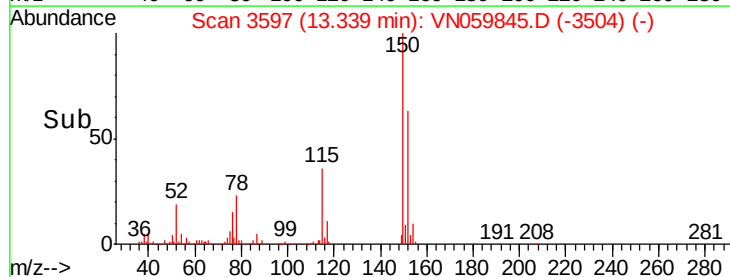
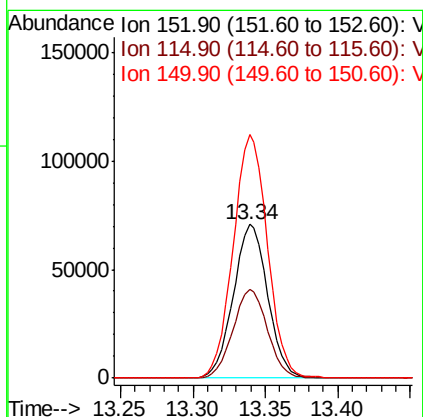
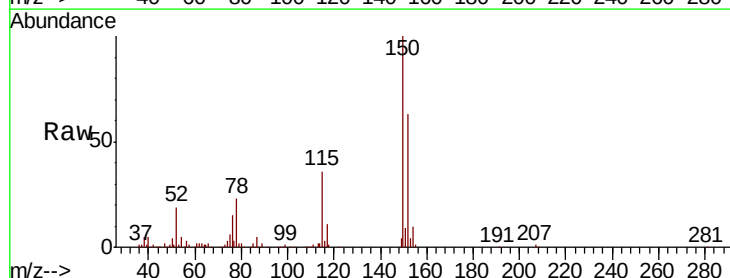
Instrument :
MSVOA_N
ClientSampled :

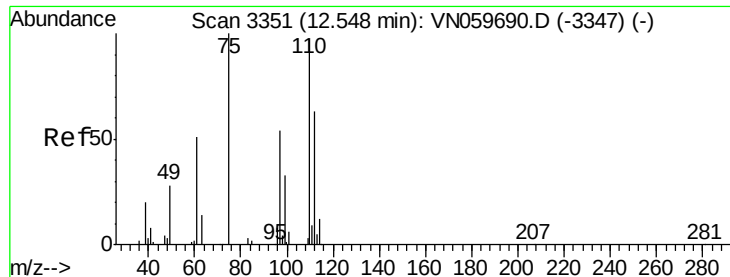
Tot Ion:117 Resp: 283324
Ion Ratio Lower Upper
117 100
82 52.9 45.9 68.9
119 31.9 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059845.D
Acq: 24 Jan 2020 15:07

Tgt Ion:152 Resp: 116397
Ion Ratio Lower Upper
152 100
115 57.7 30.3 90.9
150 158.2 0.0 345.2





#76

1,2,3-Trichloropropane

Concen: 32.190 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059845.D

Acq: 24 Jan 2020 15:07

Instrument :

MSVOA_N

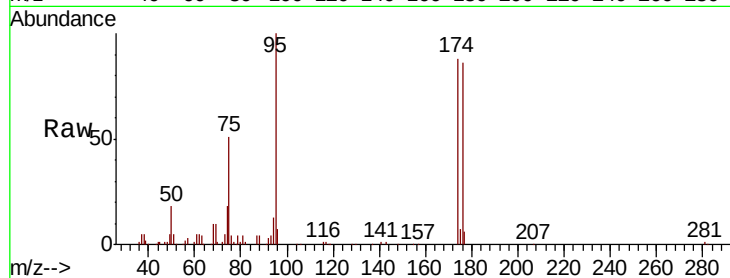
ClientSampleId :

Tot Ion: 75 Resp: 63055

Ion Ratio Lower Upper

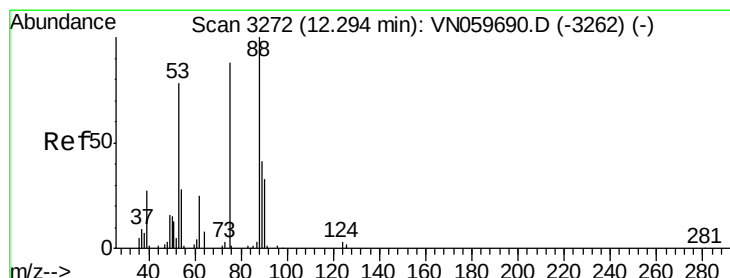
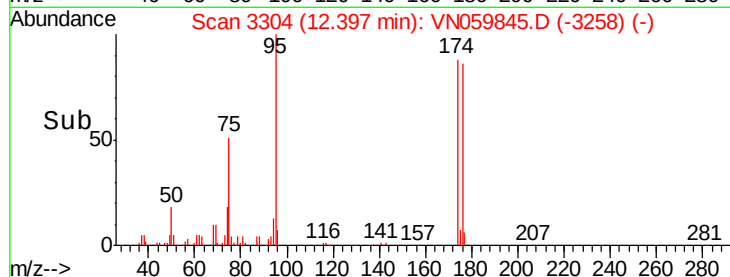
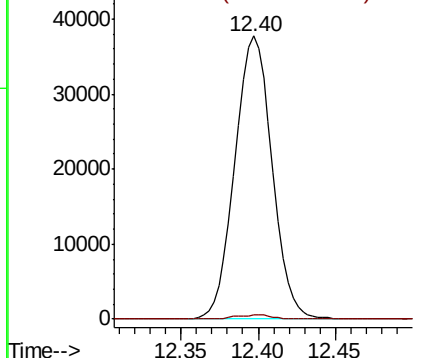
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 69.128 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059845.D

Acq: 24 Jan 2020 15:07

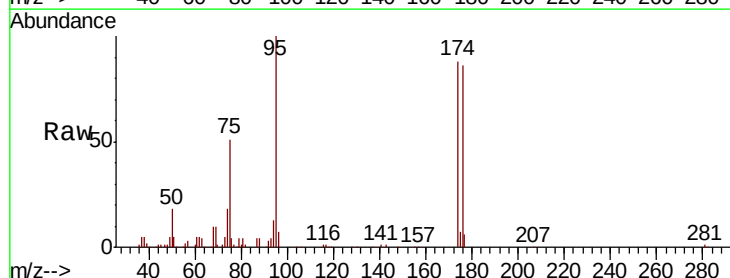
Tgt Ion: 75 Resp: 63055

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

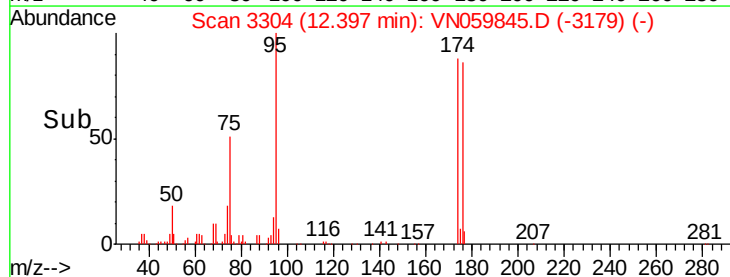
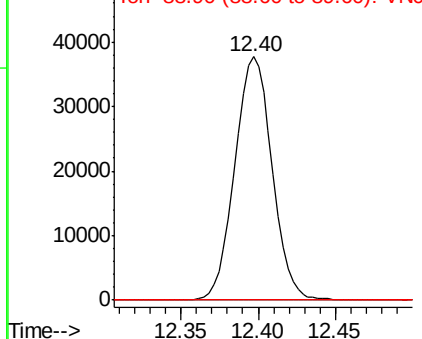
89 0.0 35.4 53.2#

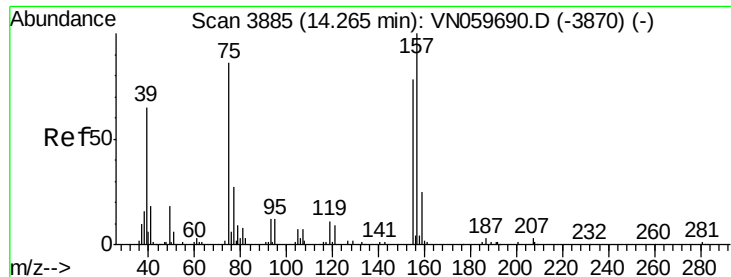


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.33 min Scan# 3905

Delta R.T. 0.07 min

Lab File: VN059845.D

Acq: 24 Jan 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

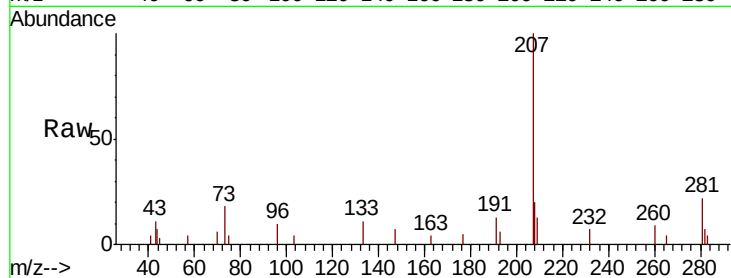
Tot Ion: 75 Resp: 214

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

