

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112919\
 Data File : VN059440.D
 Acq On : 29 Nov 2019 12:12
 Operator : JC/SP
 Sample : PB125144TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 29 22:25:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112719W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 27 16:56:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	373450	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	569654	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	489395	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	185455	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	207838	47.51	ug/l	0.00
Spiked Amount 50.000			Recovery =	95.02%		
35) Dibromofluoromethane	7.57	113	171635	49.46	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.92%		
50) Toluene-d8	10.08	98	687831	49.75	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.50%		
62) 4-Bromofluorobenzene	12.40	95	217842	45.25	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.50%		

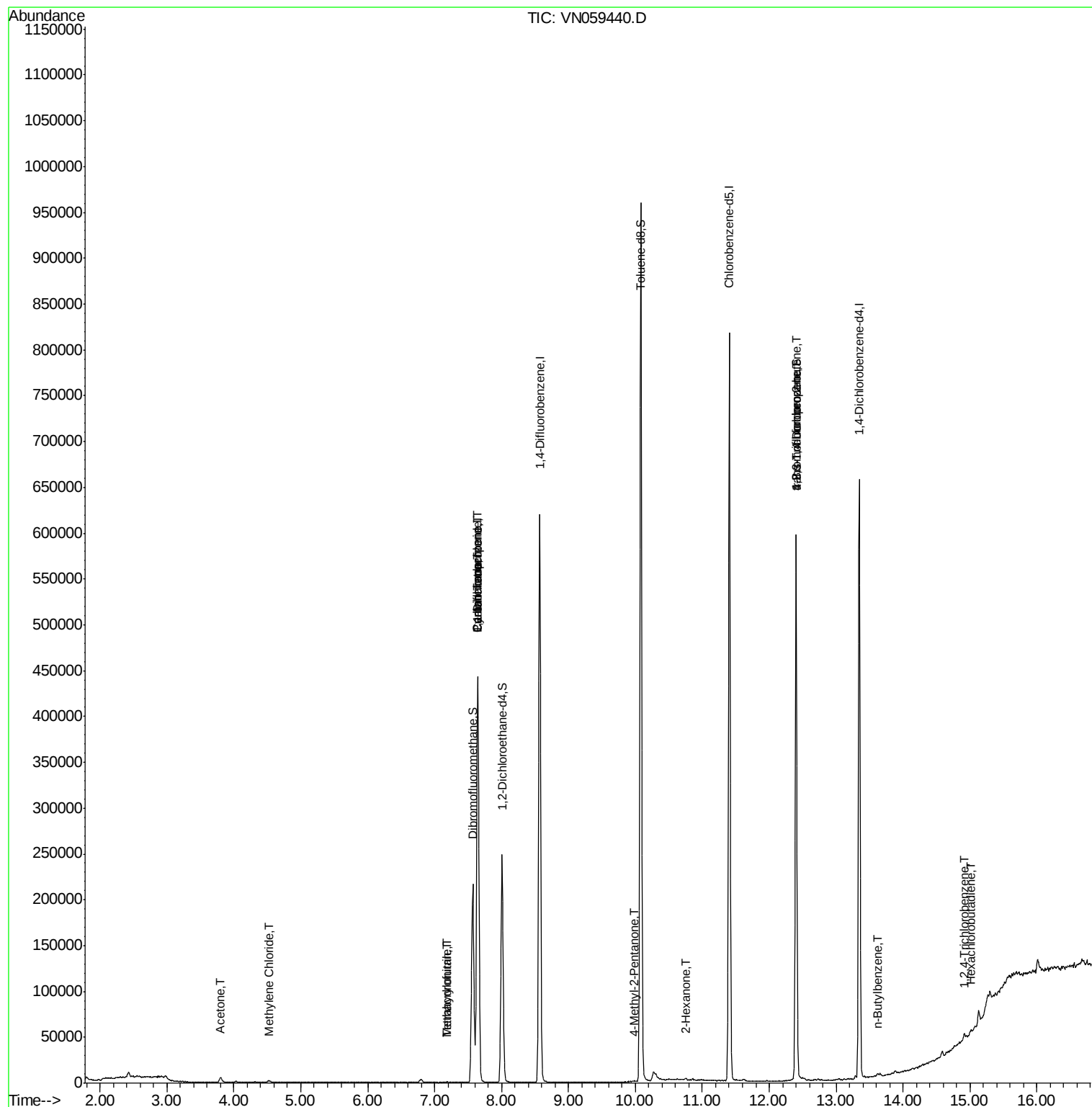
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	3055	1.466	ug/l	90
20) Methylene Chloride	4.53	84	982	0.232	ug/l #	75
29) Tetrahydrofuran	7.19	42	429	0.225	ug/l #	33
31) Cyclohexane	7.64	56	6648	0.902	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	26834	4.898	ug/l #	49
38) Carbon Tetrachloride	7.64	117	34553	6.684	ug/l #	16
41) Methacrylonitrile	7.19	41	600	0.222	ug/l #	100
51) 4-Methyl-2-Pentanone	9.98	43	1041	0.204	ug/l #	81
59) 2-Hexanone	10.75	43	1644	0.434	ug/l	81
70) Styrene	11.96	104	565	Below Cal	#	58
74) N-amyl acetate	12.07	43	844	Below Cal	#	47
76) 1,2,3-Trichloropropane	12.40	75	102834	24.511	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	102834	62.979	ug/l #	17
89) n-Butylbenzene	13.62	91	2103	0.202	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	14.28	75	626	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	2542	0.700	ug/l	87
94) Hexachlorobutadiene	15.01	225	537	0.241	ug/l	94
95) Naphthalene	15.13	128	10576	Below Cal		97
96) 1,2,3-Trichlorobenzene	15.29	180	3445	Below Cal		86

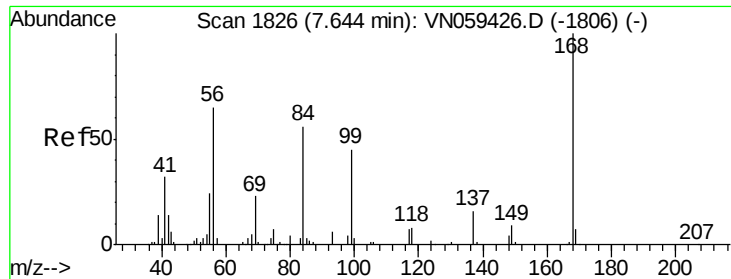
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 27 16:56:05 2019
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: VN059440.D

Acq: 29 Nov 2019 12:12

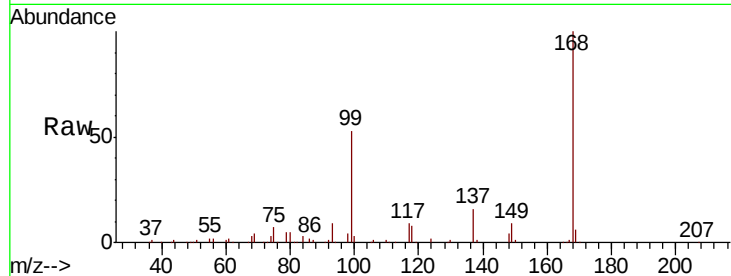
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 373450

Ion Ratio Lower Upper

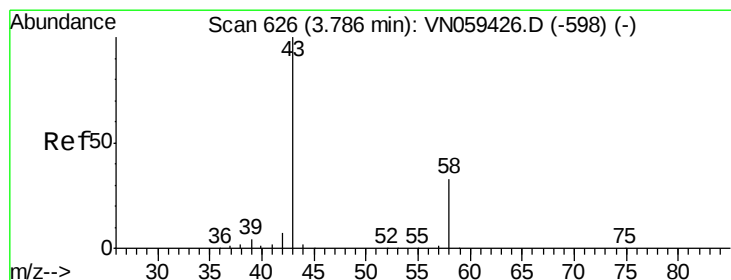
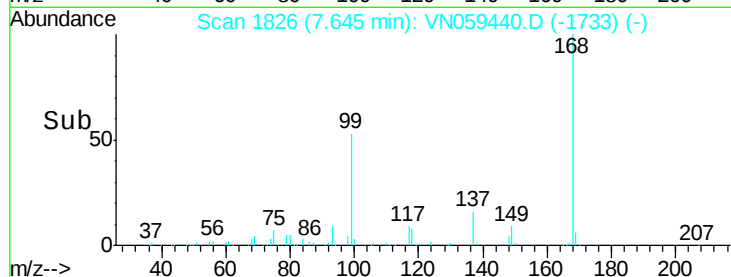
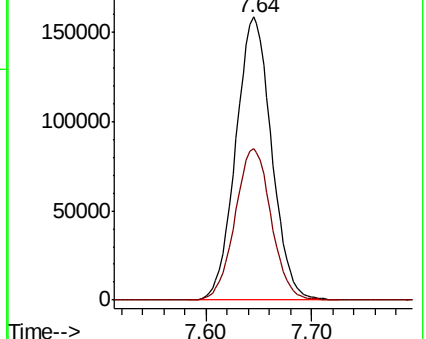
168 100

99 53.4 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 1.466 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059440.D

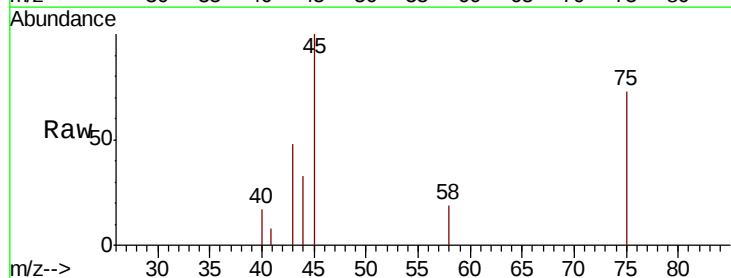
Acq: 29 Nov 2019 12:12

Tgt Ion: 43 Resp: 3055

Ion Ratio Lower Upper

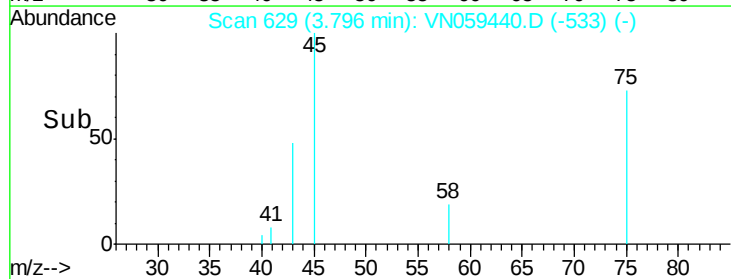
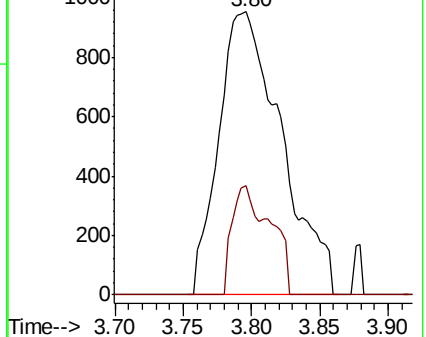
43 100

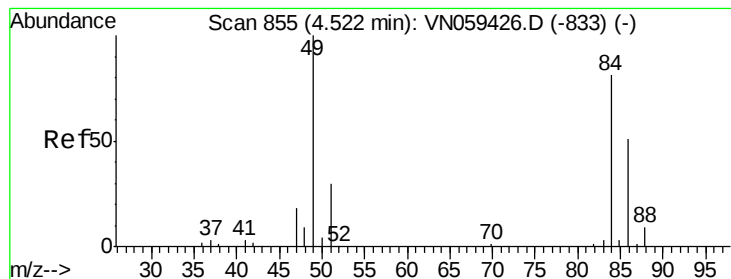
58 38.8 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#20

Methylene Chloride

Concen: 0.232 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 84 Resp: 982

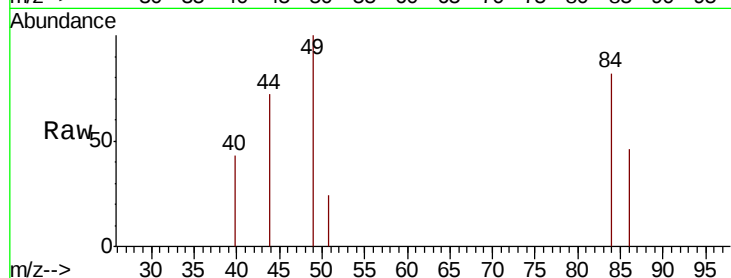
Ion Ratio Lower Upper

84 100

49 81.5 98.6 148.0#

51 29.2 29.4 44.0#

86 56.2 50.6 76.0

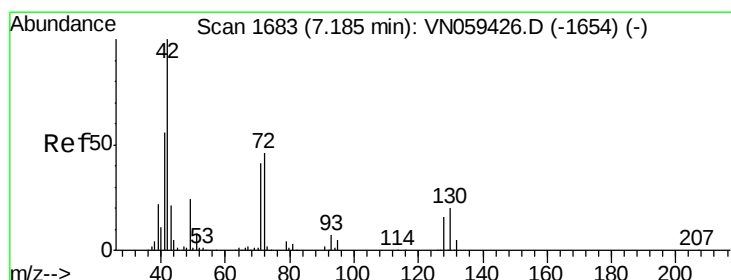
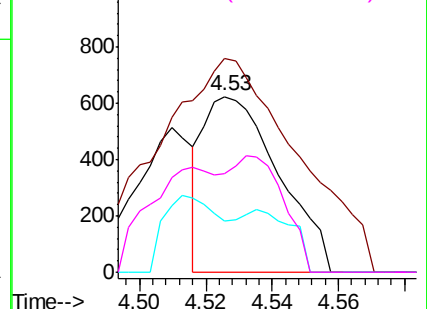
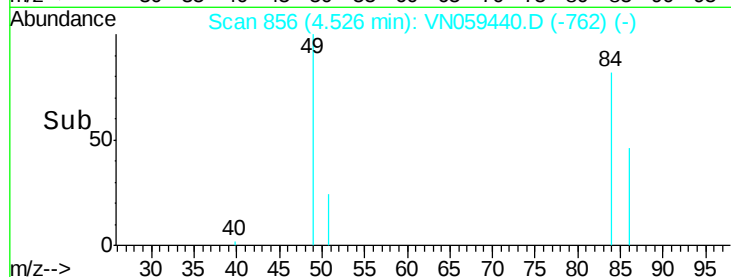


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#29

Tetrahydrofuran

Concen: 0.225 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

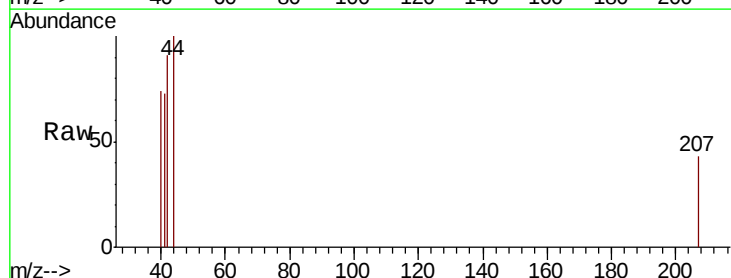
Tgt Ion: 42 Resp: 429

Ion Ratio Lower Upper

42 100

72 0.0 34.6 51.8#

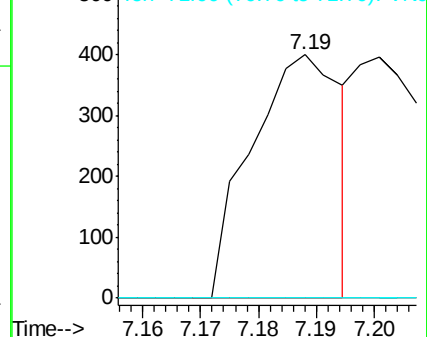
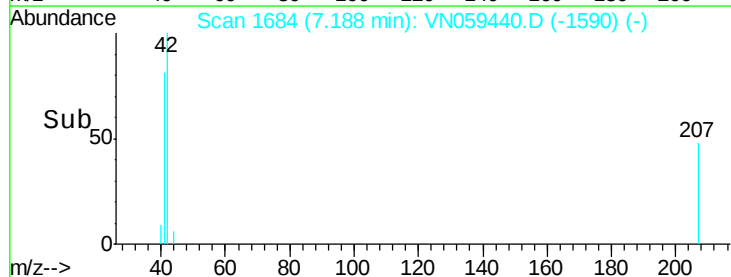
71 0.0 33.0 49.6#

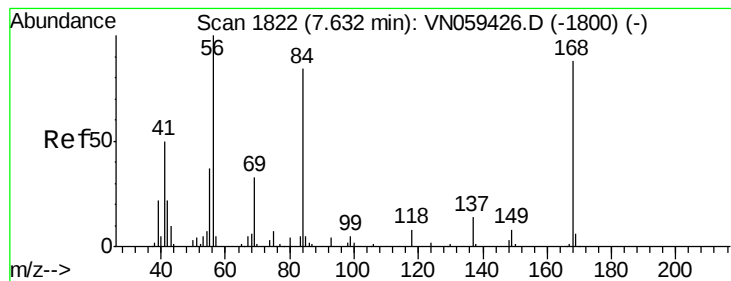


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 0.902 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

Instrument :
MSVOA_N
ClientSampleId :

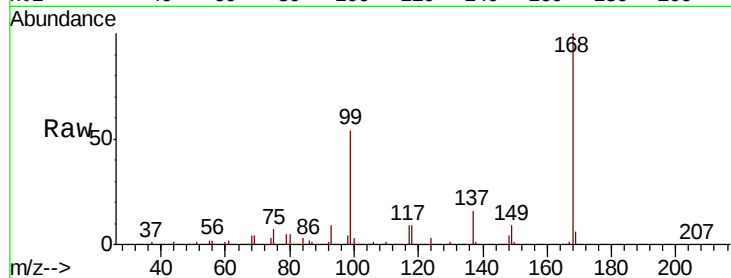
Tot Ion: 56 Resp: 6648

Ion Ratio Lower Upper

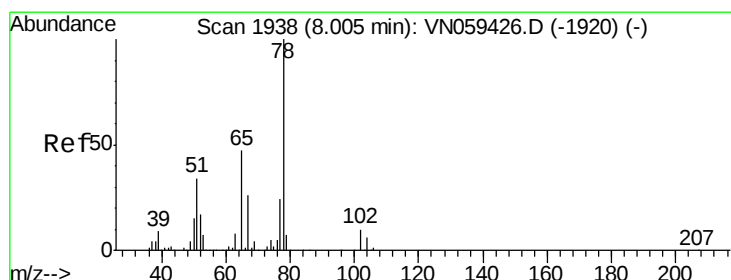
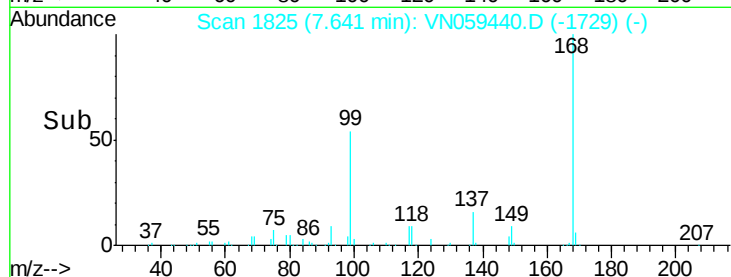
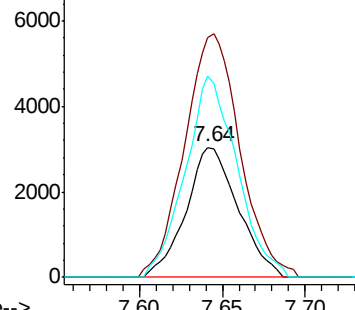
56 100

69 184.3 26.4 39.6#

84 155.4 67.0 100.6#



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



#33

1,2-Dichloroethane-d4

Concen: 47.510 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059440.D

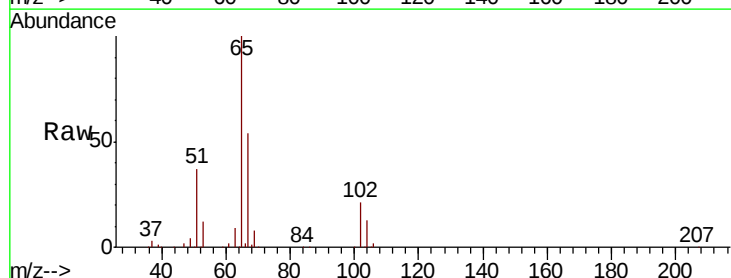
Acq: 29 Nov 2019 12:12

Tgt Ion: 65 Resp: 207838

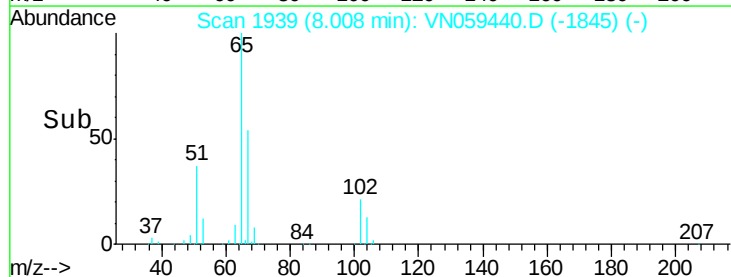
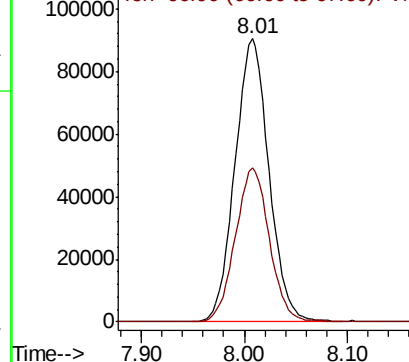
Ion Ratio Lower Upper

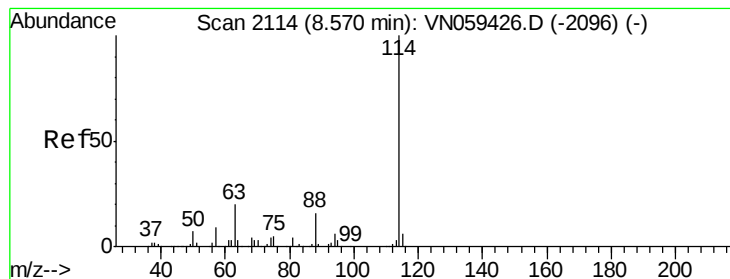
65 100

67 54.6 0.0 111.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

Instrument :

MSVOA_N

ClientSampleId :

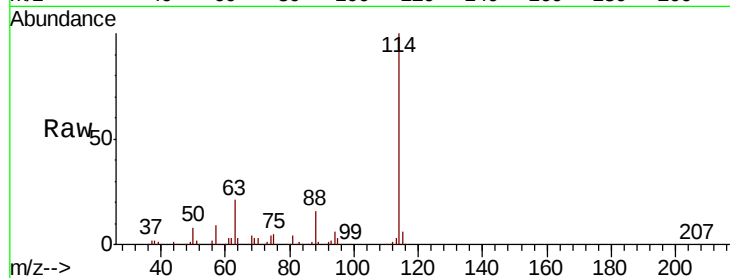
Tot Ion:114 Resp: 569654

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.4

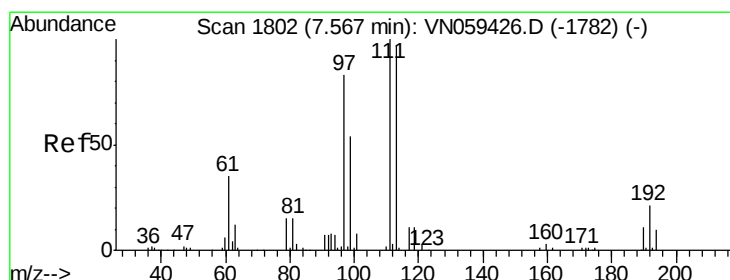
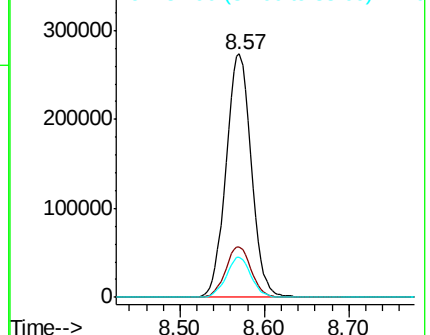
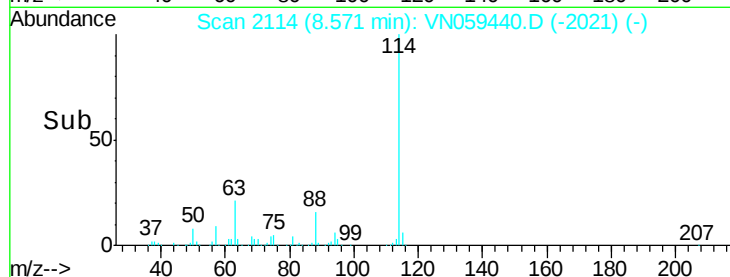
88 16.3 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 49.464 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

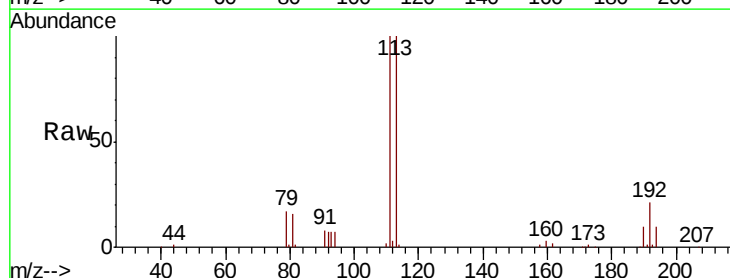
Tgt Ion:113 Resp: 171635

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

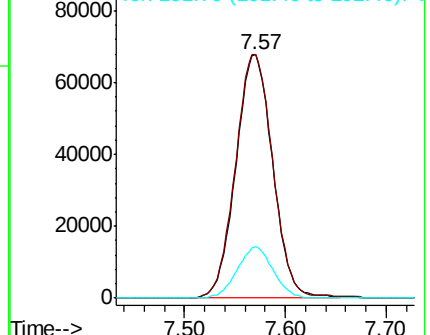
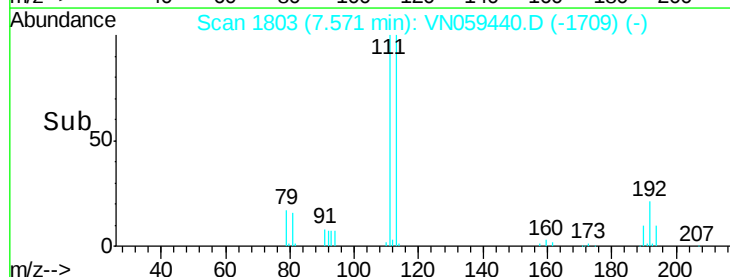
192 20.5 16.6 24.8

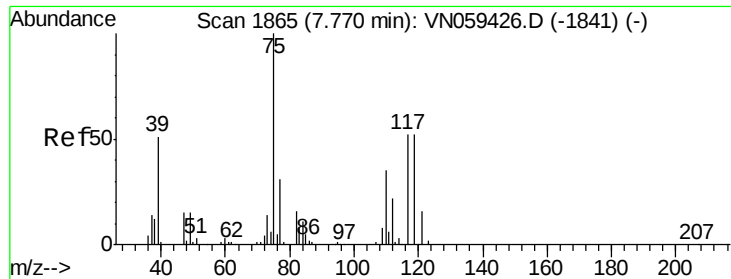


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

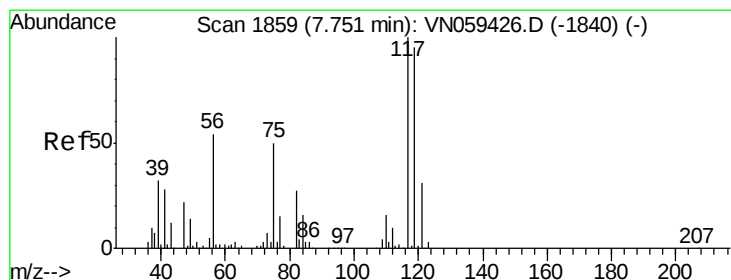
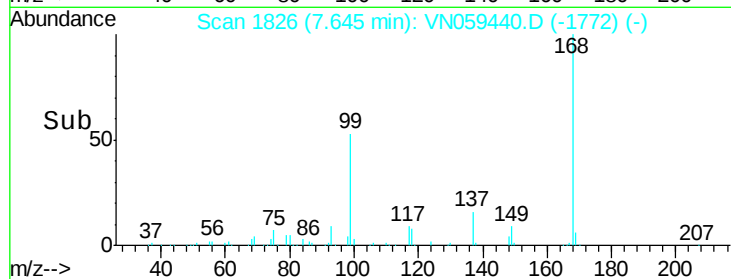
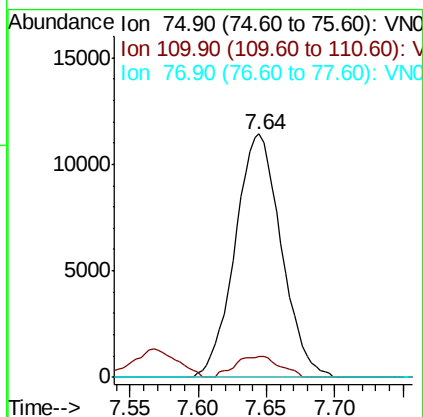
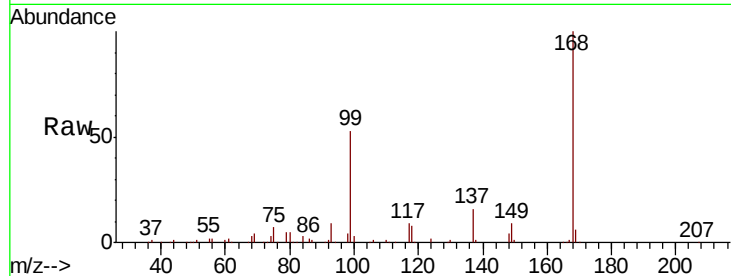




#36
 1,1-Dichloropropene
 Concen: 4.898 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059440.D
 Acq: 29 Nov 2019 12:12

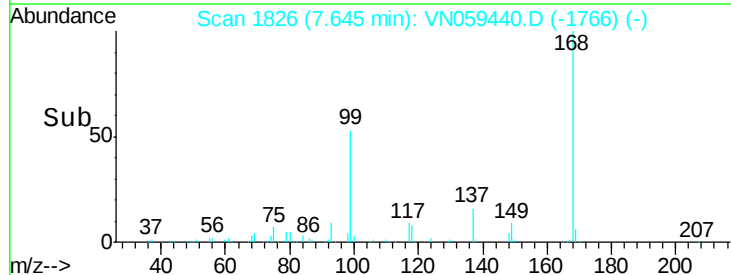
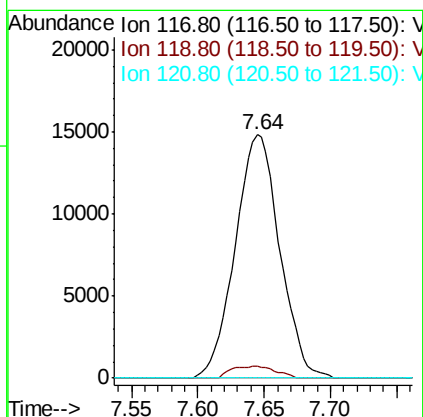
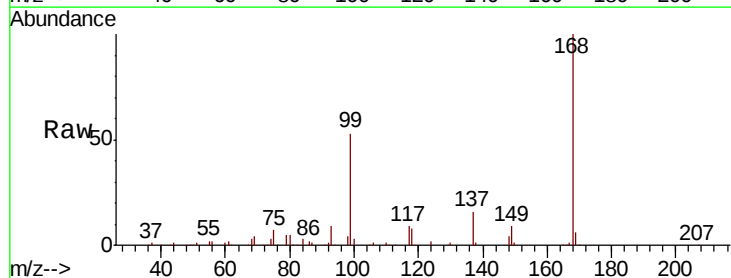
Instrument :
 MSVOA_N
 ClientSampleId :

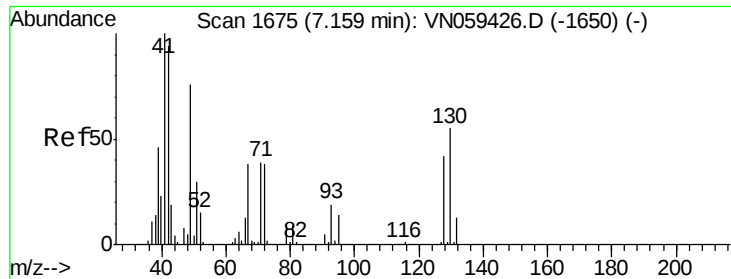
Tot Ion	75	Resp	26834
Ion Ratio	Lower	Upper	
75	100		
110	8.4	17.3	52.0#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.684 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059440.D
 Acq: 29 Nov 2019 12:12

Tgt Ion	117	Resp	34553
Ion Ratio	Lower	Upper	
117	100		
119	4.7	75.9	113.9#
121	0.0	24.6	36.8#

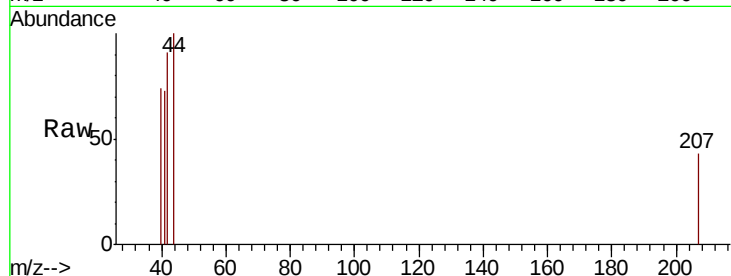




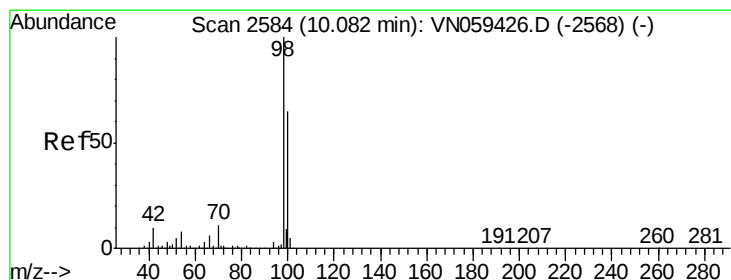
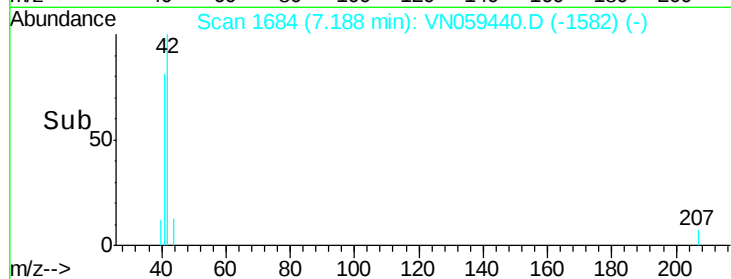
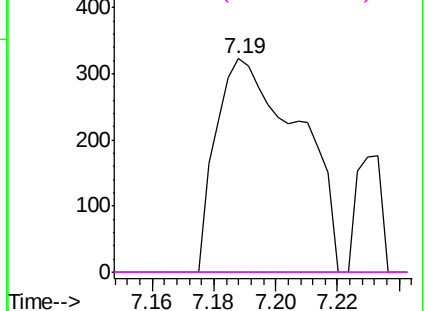
#41
Methacrylonitrile
Concen: 0.222 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.03 min
Lab File: VN059440.D
Acq: 29 Nov 2019 12:12

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	41	Resp:	600
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

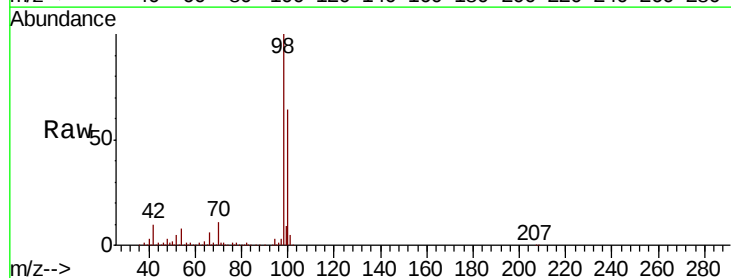


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

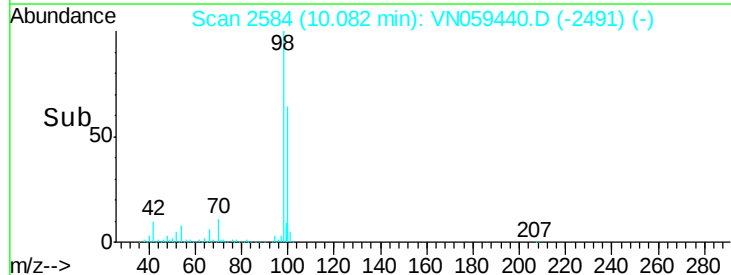
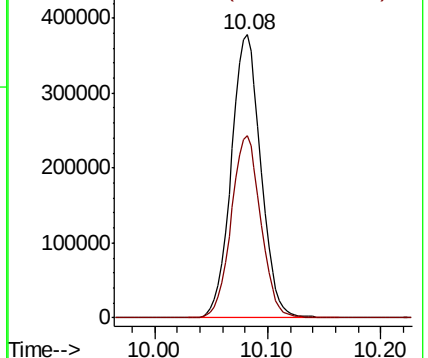


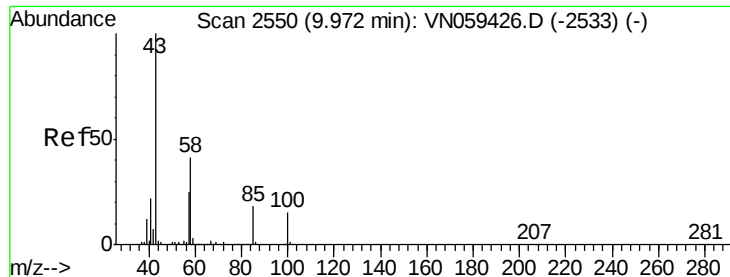
#50
Toluene-d8
Concen: 49.750 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059440.D
Acq: 29 Nov 2019 12:12

Tgt Ion:	98	Resp:	687831
Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.2	78.2



Abundance Ion 98.00 (97.70 to 98.70): VNC
Ion 100.00 (99.70 to 100.70): VNC





#51

4-Methyl-2-Pentanone

Concen: 0.204 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.01 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

Instrument :

MSVOA_N

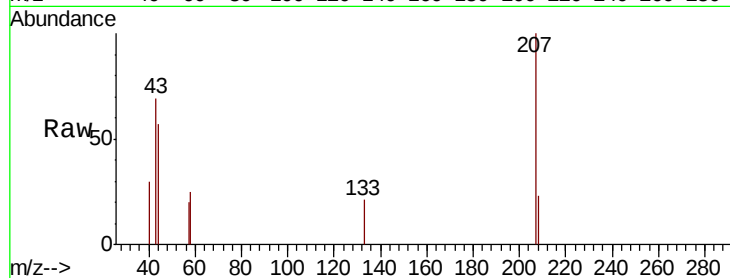
ClientSampled :

Tot Ion: 43 Resp: 1041

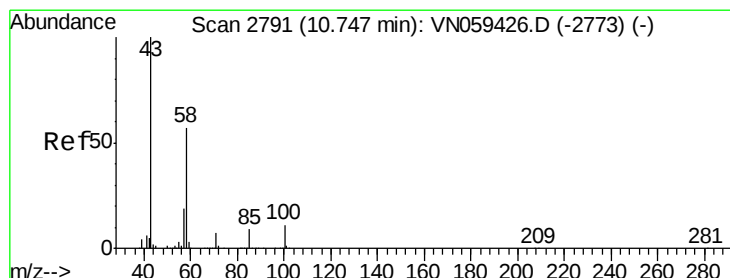
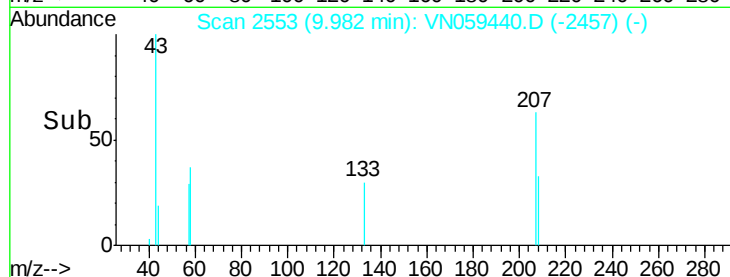
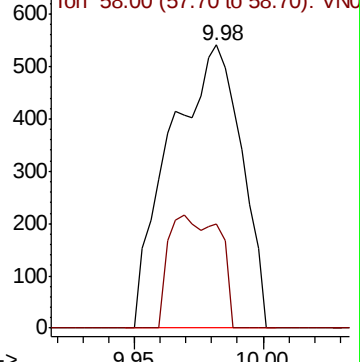
Ion Ratio Lower Upper

43 100

58 28.6 32.5 48.7#



Abundance Ion 43.00 (42.70 to 43.70): VN059440.D (-2457) (-)



#59

2-Hexanone

Concen: 0.434 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059440.D

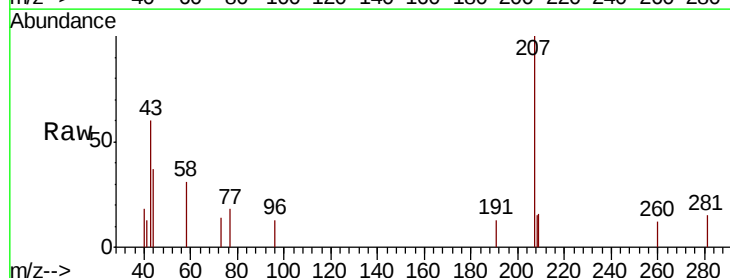
Acq: 29 Nov 2019 12:12

Tgt Ion: 43 Resp: 1644

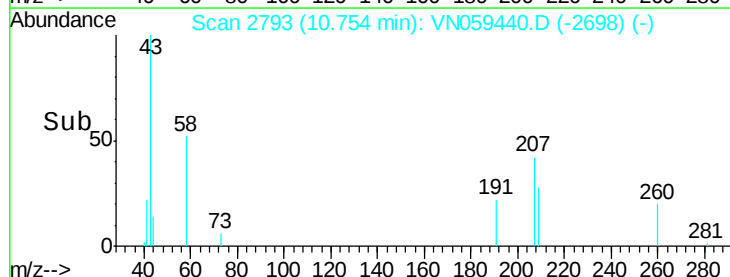
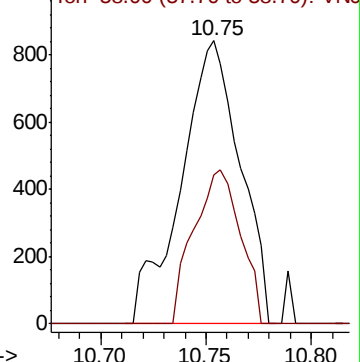
Ion Ratio Lower Upper

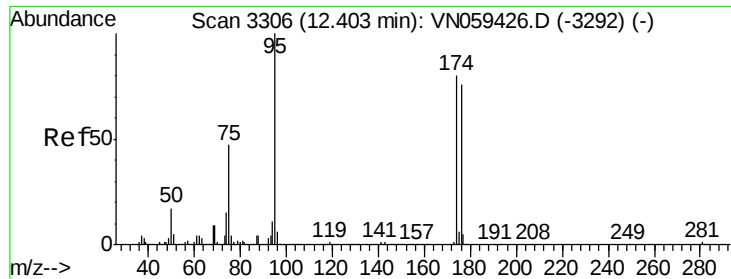
43 100

58 43.1 28.3 85.0



Abundance Ion 43.00 (42.70 to 43.70): VN059440.D (-2698) (-)





#62

4-Bromofluorobenzene

Concen: 45.253 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

Instrument :

MSVOA_N

ClientSampleId :

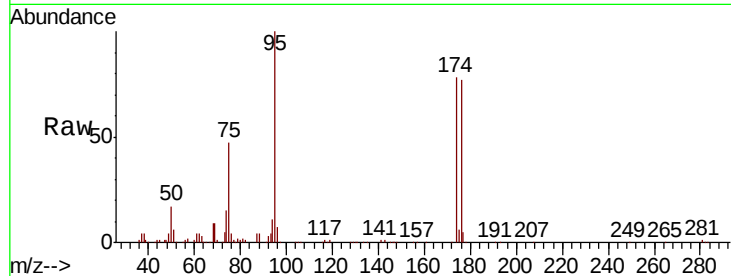
Tot Ion: 95 Resp: 217842

Ion Ratio Lower Upper

95 100

174 79.3 0.0 158.0

176 76.9 0.0 153.0



Abundance Ion 94.90 (94.60 to 95.60): VN059426.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN059426.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN059426.D (-3292) (-)

12.40

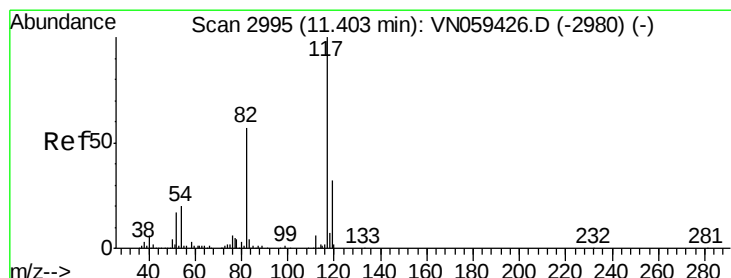
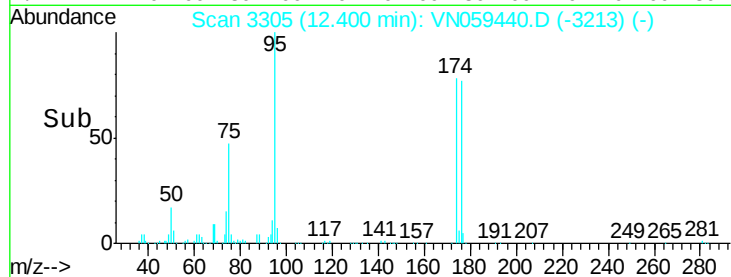
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

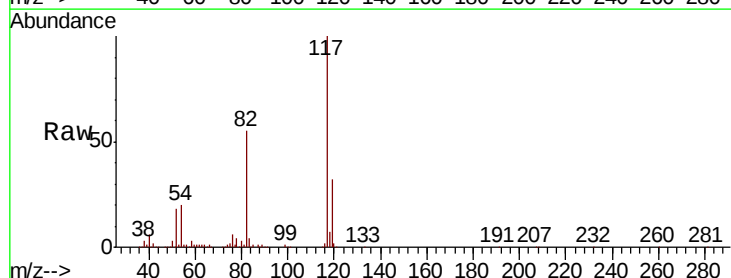
Tgt Ion: 117 Resp: 489395

Ion Ratio Lower Upper

117 100

82 55.1 45.4 68.0

119 32.3 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): VN059426.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN059426.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN059426.D (-2980) (-)

11.40

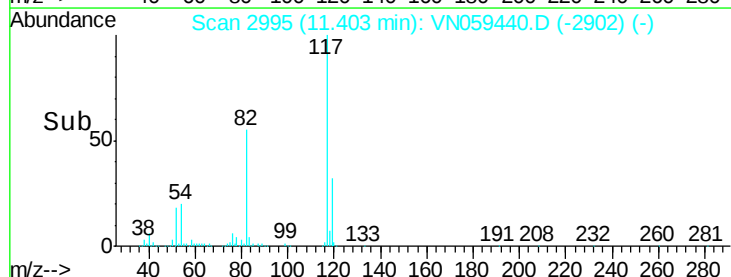
300000

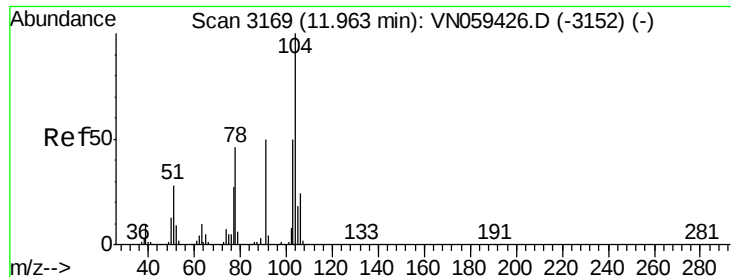
200000

100000

0

Time--> 11.30 11.40 11.50





#70

Stvrene

Concen: Below Cal

RT: 11.96 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

Instrument :

MSVOA_N

ClientSampled :

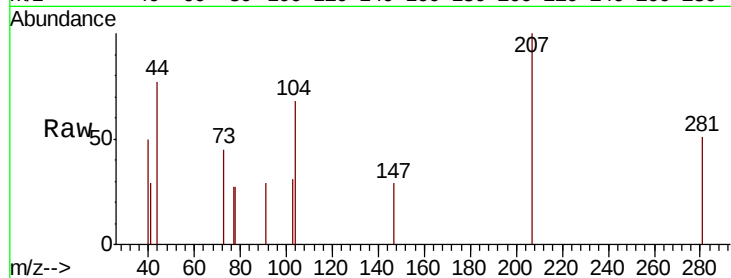
Tot Ion:104 Resp: 565

Ion Ratio Lower Upper

104 100

78 21.4 40.4 60.6#

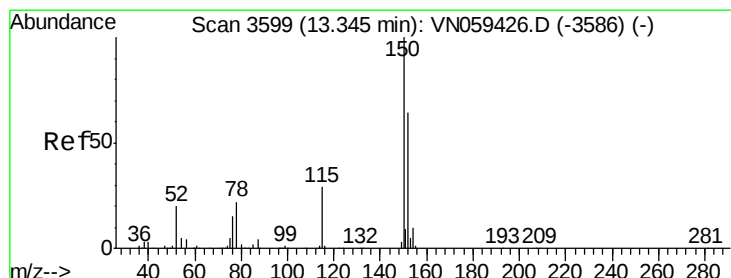
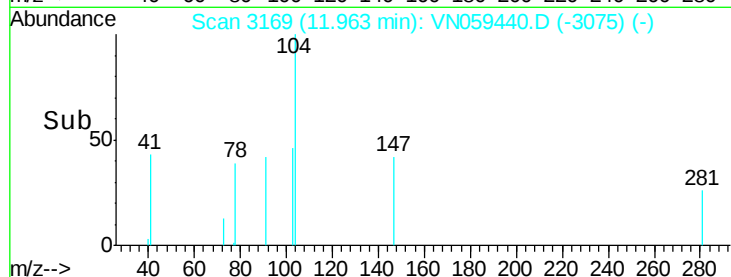
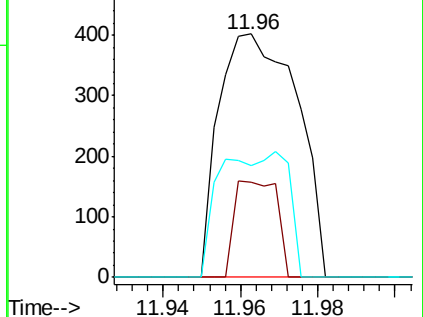
103 25.0 43.8 65.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

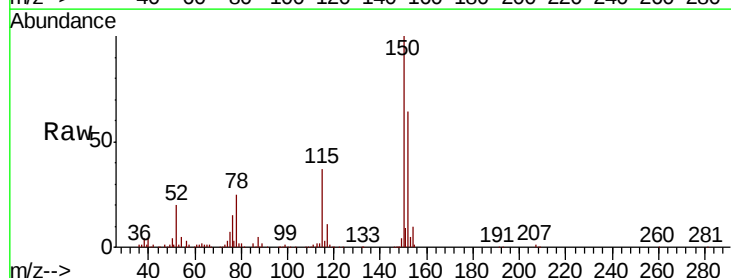
Tgt Ion:152 Resp: 185455

Ion Ratio Lower Upper

152 100

115 59.1 29.5 88.6

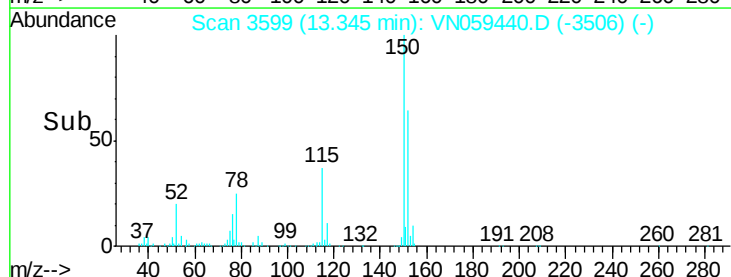
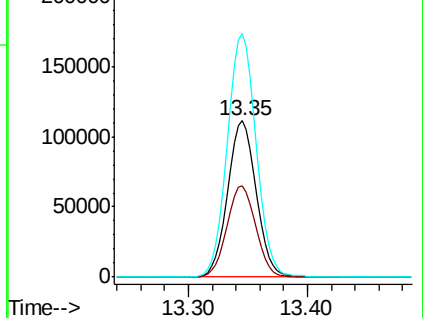
150 157.2 0.0 347.2

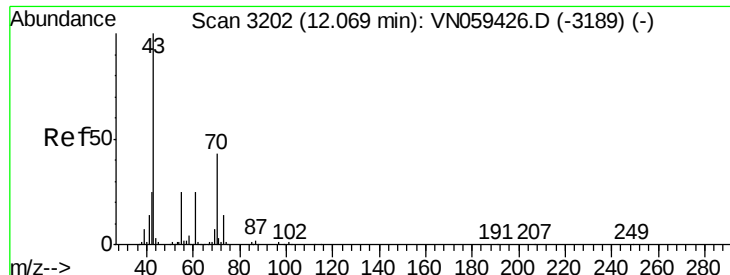


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 844

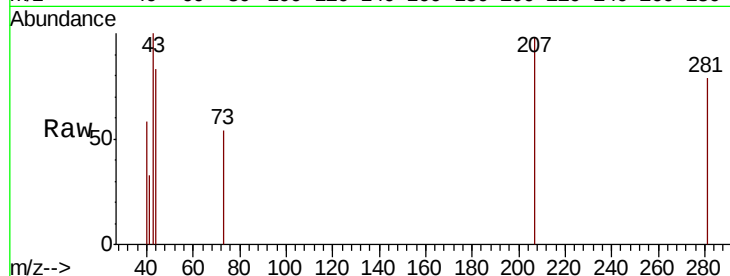
Ion Ratio Lower Upper

43 100

70 7.6 34.6 52.0#

55 0.0 20.5 30.7#

61 0.0 20.2 30.4#

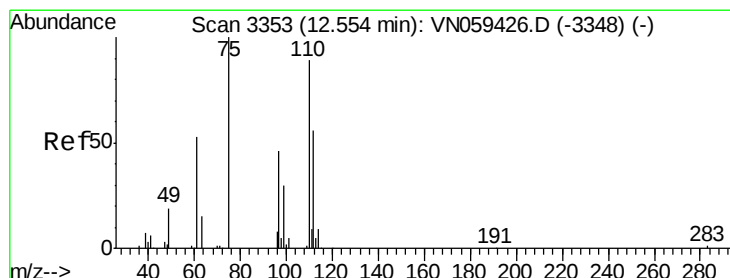
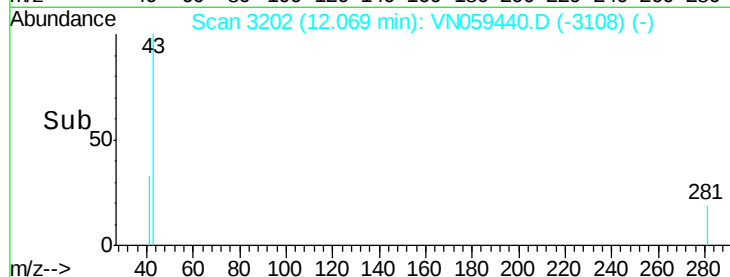
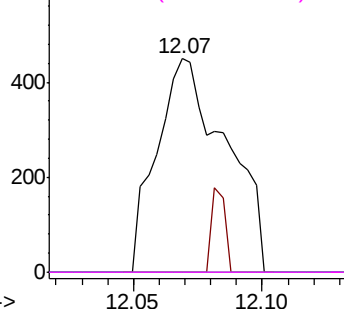


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 24.511 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059440.D

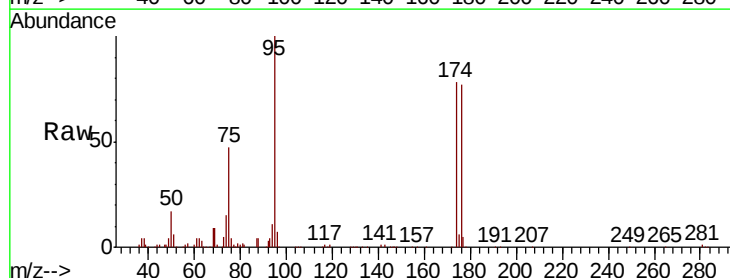
Acq: 29 Nov 2019 12:12

Tgt Ion: 75 Resp: 102834

Ion Ratio Lower Upper

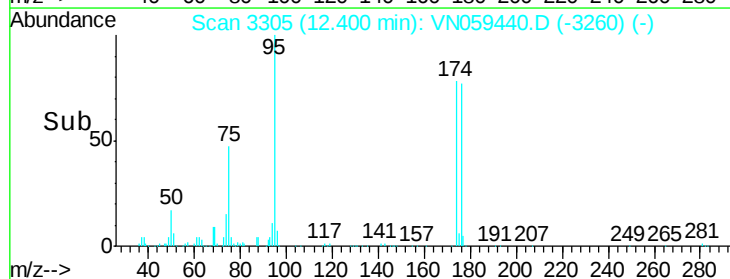
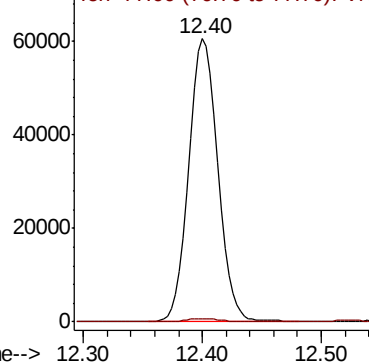
75 100

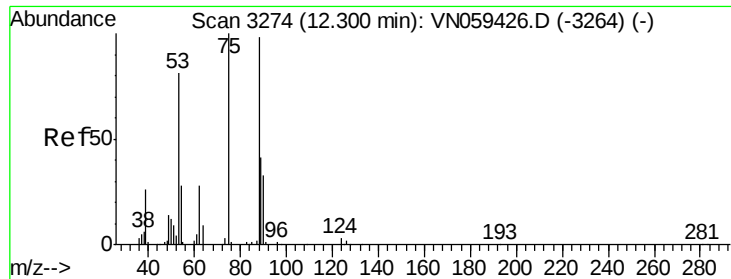
77 1.3 0.0 0.0#



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: 62.979 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

Instrument :

MSVOA_N

ClientSampled :

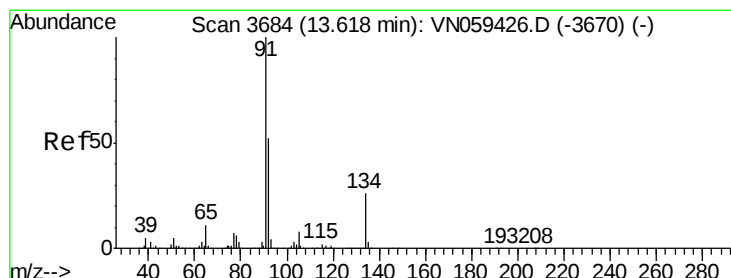
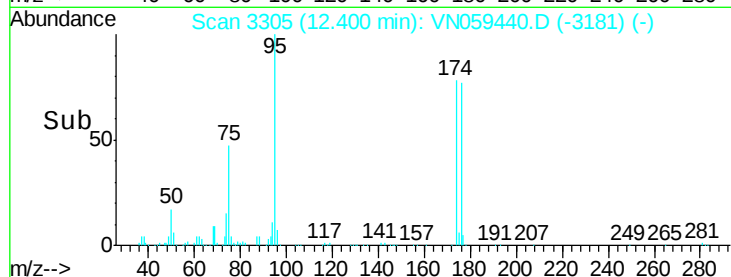
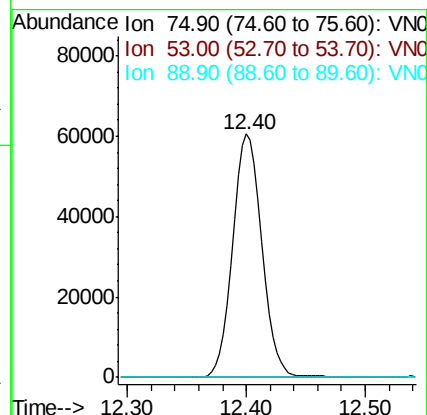
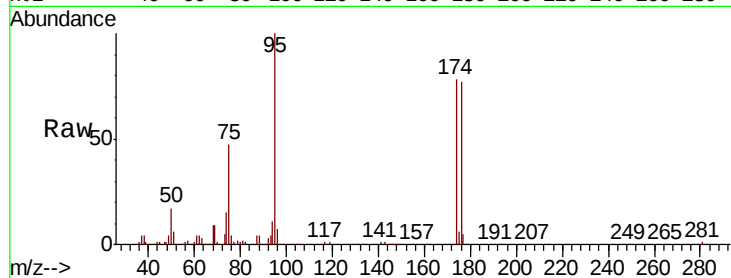
Tot Ion: 75 Resp: 102834

Ion Ratio Lower Upper

75 100

53 0.0 66.2 99.4#

89 0.0 33.9 50.9#



#89

n-Butylbenzene

Concen: 0.202 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

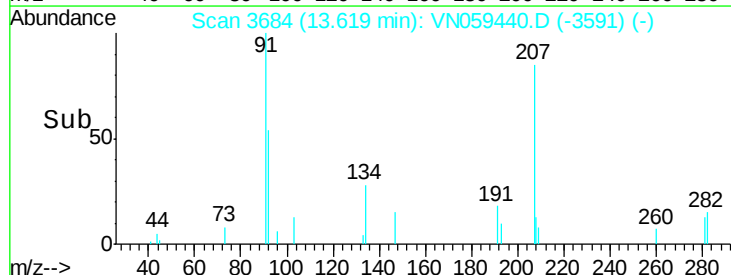
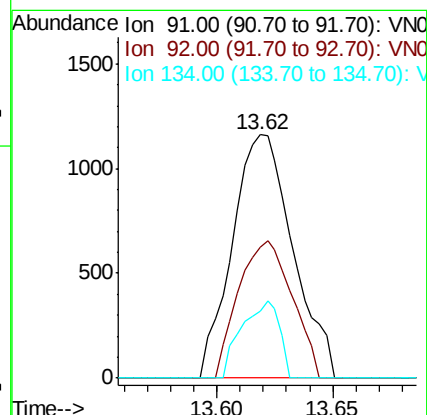
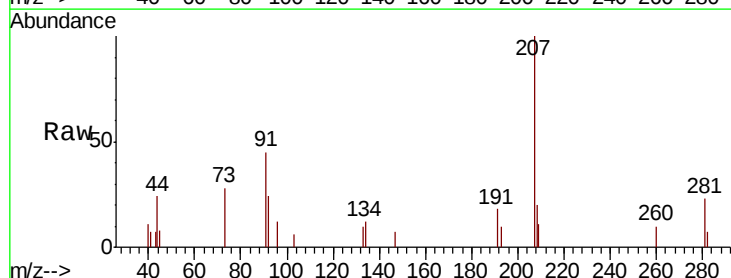
Tgt Ion: 91 Resp: 2103

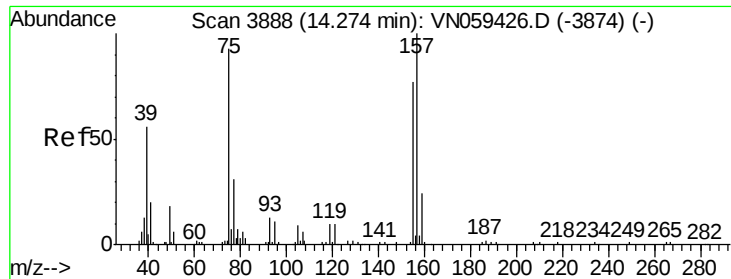
Ion Ratio Lower Upper

91 100

92 50.2 25.9 77.8

134 19.7 12.8 38.4

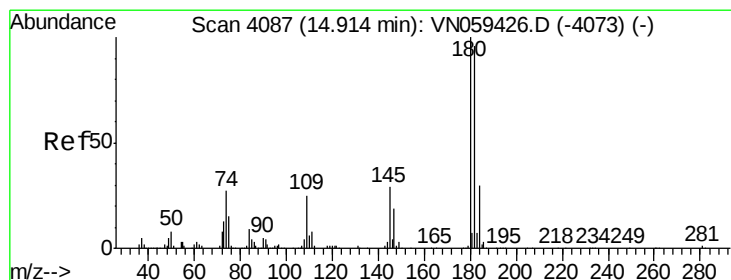
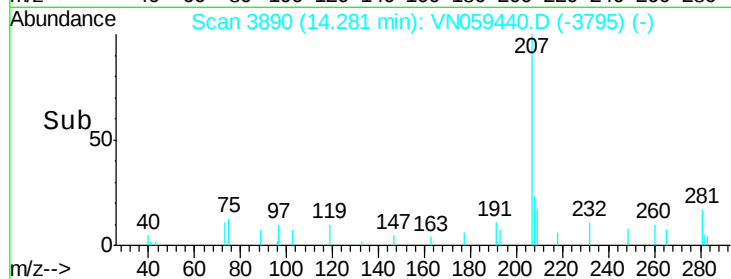
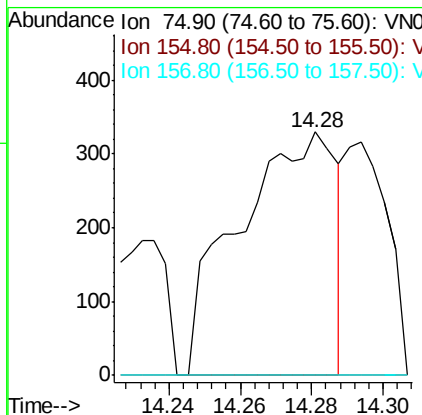
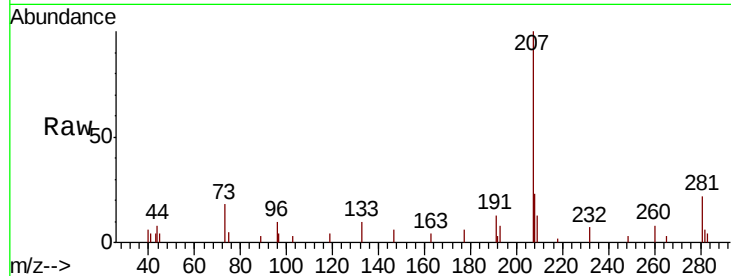




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.28 min Scan# 3890
 Delta R.T. 0.01 min
 Lab File: VN059440.D
 Acq: 29 Nov 2019 12:12

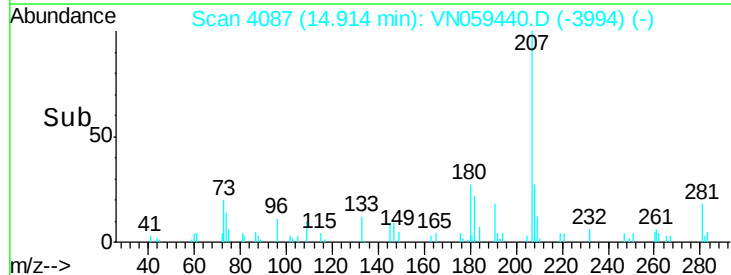
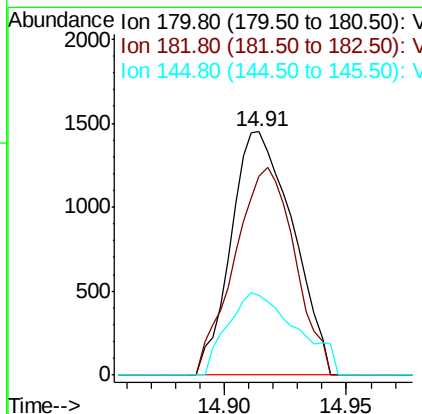
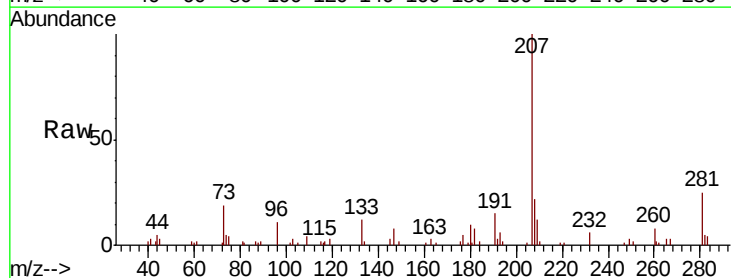
Instrument :
 MSVOA_N
 ClientSampled :

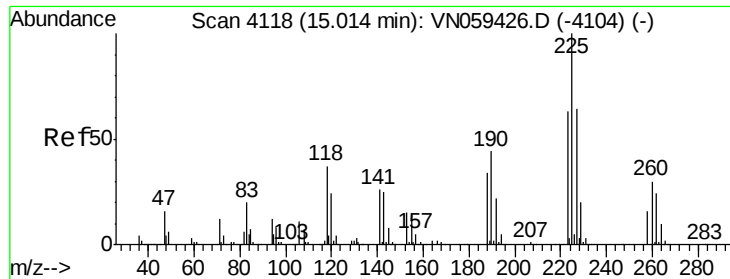
Tot Ion: 75 Resp: 626
 Ion Ratio Lower Upper
 75 100
 155 0.0 41.9 125.8#
 157 0.0 54.1 162.3#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.700 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059440.D
 Acq: 29 Nov 2019 12:12

Tgt Ion: 180 Resp: 2542
 Ion Ratio Lower Upper
 180 100
 182 83.4 47.3 142.0
 145 38.2 14.8 44.4





#94

Hexachlorobutadiene

Concen: 0.241 ug/l

RT: 15.01 min Scan# 4118

Delta R.T. 0.00 min

Lab File: VN059440.D

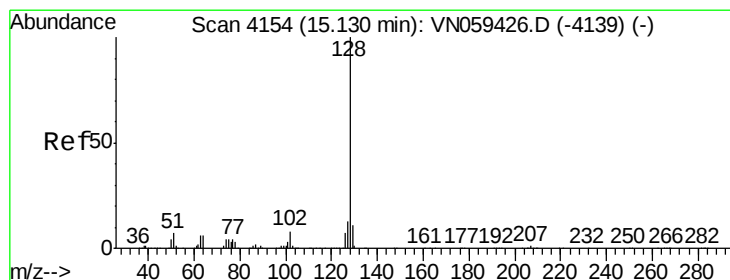
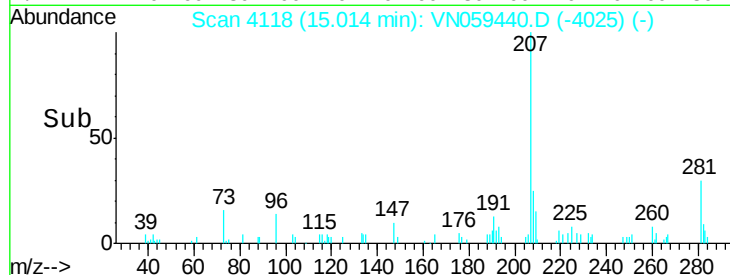
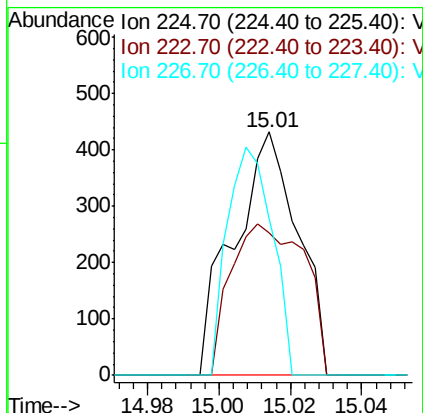
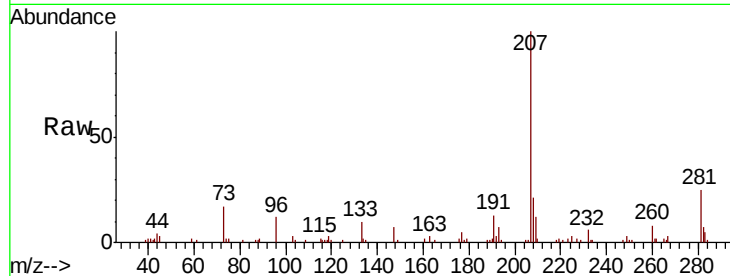
Acq: 29 Nov 2019 12:12

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	225	Resp:	537
Ion	Ratio	Lower	Upper
225	100		
223	71.3	31.5	94.5
227	65.4	31.9	95.7



#95

Naphthalene

Concen: Below Cal

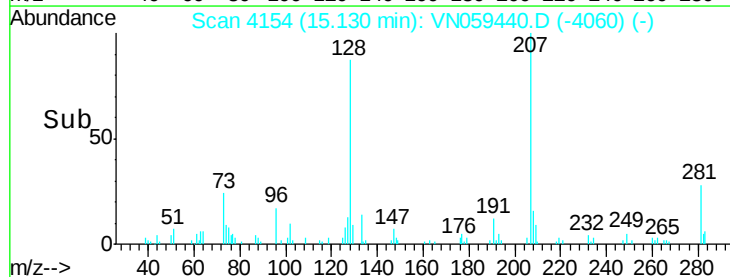
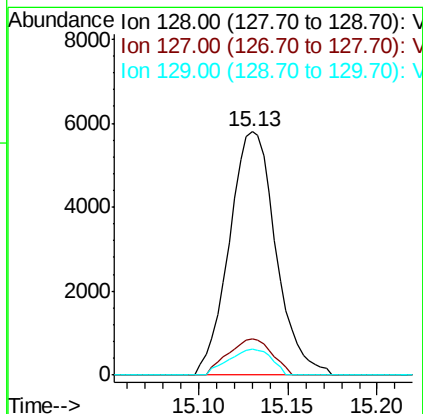
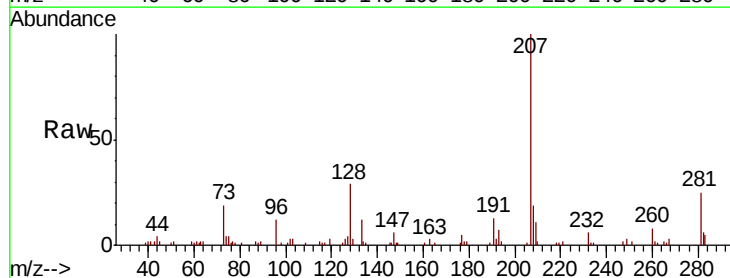
RT: 15.13 min Scan# 4154

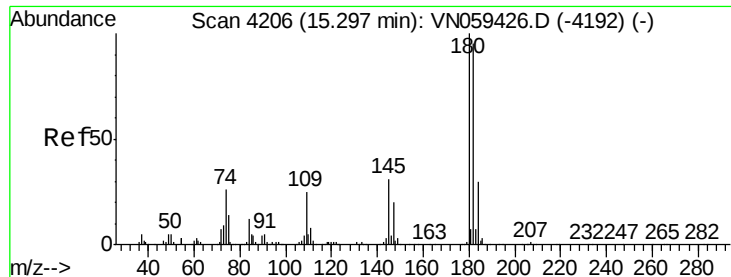
Delta R.T. 0.00 min

Lab File: VN059440.D

Acq: 29 Nov 2019 12:12

Tgt Ion:	128	Resp:	10576
Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.1	15.1
129	9.8	8.6	12.8





#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 15.29 min Scan# 4205
 Delta R.T. -0.00 min
 Lab File: VN059440.D
 Acq: 29 Nov 2019 12:12

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	83.5	47.5	142.6
145	19.4	15.7	47.1

