

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111319\
 Data File : VN059212.D
 Acq On : 13 Nov 2019 16:21
 Operator : JC/SP
 Sample : K5814-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30535

Quant Time: Nov 14 08:11:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	433998	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	673816	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	587288	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	235476	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	282189	52.89	ug/l	0.00
Spiked Amount						
			Recovery	=	105.78%	
35) Dibromofluoromethane	7.57	113	218255	54.25	ug/l	0.00
Spiked Amount						
			Recovery	=	108.50%	
50) Toluene-d8	10.08	98	870560	54.93	ug/l	0.00
Spiked Amount						
			Recovery	=	109.86%	
62) 4-Bromofluorobenzene	12.40	95	288782	50.54	ug/l	0.00
Spiked Amount						
			Recovery	=	101.08%	

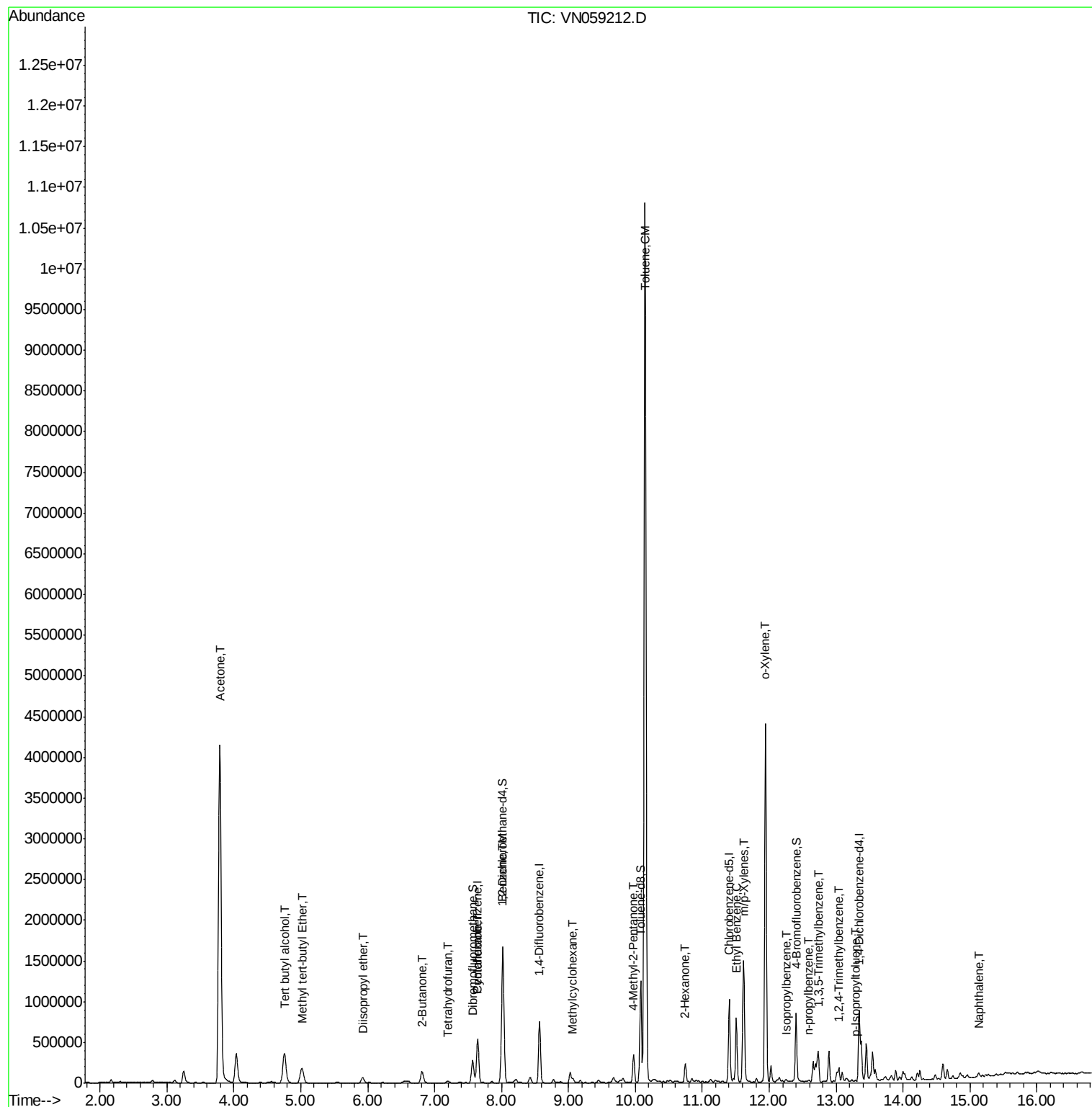
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	713933	702.188	ug/l	100
16) Acetone	3.79	43	7017657	2529.542	ug/l #	78
19) Methyl tert-butyl Ether	5.02	73	307125	22.034	ug/l	95
22) Diisopropyl ether	5.92	45	85720	5.457	ug/l	91
25) 2-Butanone	6.81	43	264002	72.204	ug/l	98
29) Tetrahydrofuran	7.19	42	9822	4.228	ug/l	96
31) Cyclohexane	7.63	56	24719	2.976	ug/l #	55
39) Methylcyclohexane	9.07	83	19135	2.618	ug/l	93
40) Benzene	8.02	78	1570937	82.828	ug/l	100
51) 4-Methyl-2-Pentanone	9.97	43	232962	36.859	ug/l	100
52) Toluene	10.15	92	5573136	490.259	ug/l #	65
59) 2-Hexanone	10.74	43	165173	34.048	ug/l	97
67) Ethyl Benzene	11.51	91	581946	28.650	ug/l	99
68) m/p-Xylenes	11.62	106	467971	61.504	ug/l	98
69) o-Xylene	11.95	106	1219182	165.805	ug/l	95
73) Isopropylbenzene	12.25	105	15535	0.907	ug/l	98
78) n-propylbenzene	12.59	91	20892	1.065	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	173571	11.959	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	94629	6.739	ug/l	99
86) p-Isopropyltoluene	13.29	119	5487	0.381	ug/l	99
95) Naphthalene	15.13	128	29917	5.347	ug/l	99

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

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Quant Title : SW846 8260
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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: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA_N

ClientSampled :

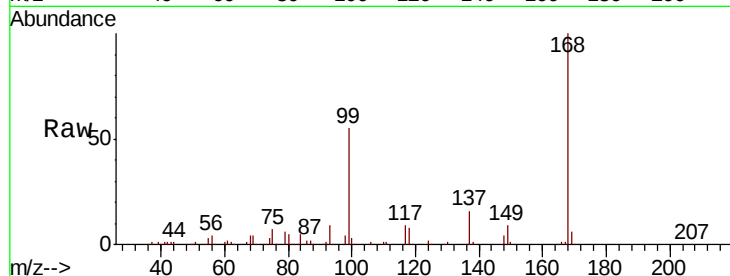
30535

Tot Ion:168 Resp: 433998

Ion Ratio Lower Upper

168 100

99 54.7 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

200000

150000

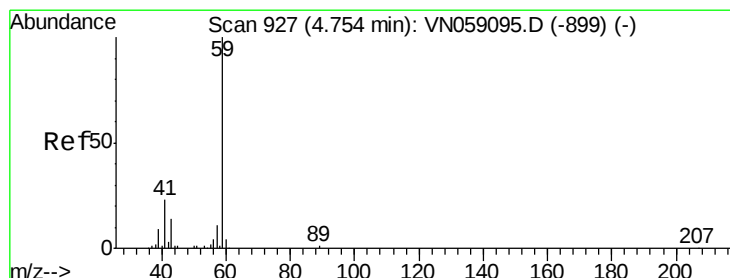
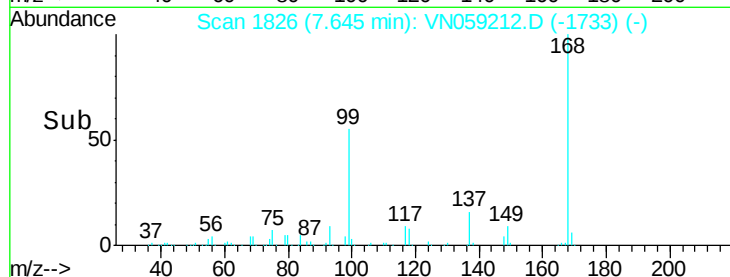
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 702.188 ug/l

RT: 4.75 min Scan# 927

Delta R.T. 0.00 min

Lab File: VN059212.D

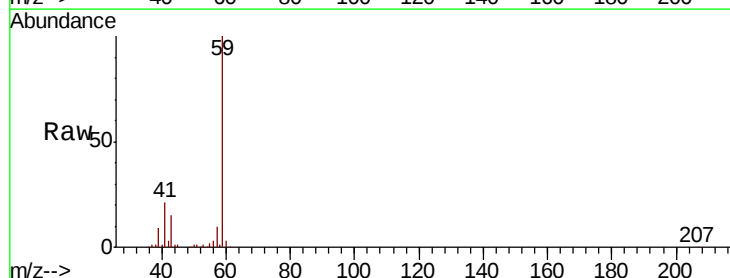
Acq: 13 Nov 2019 16:21

Tgt Ion: 59 Resp: 713933

Ion Ratio Lower Upper

59 100

57 10.3 8.3 12.5



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.75

200000

150000

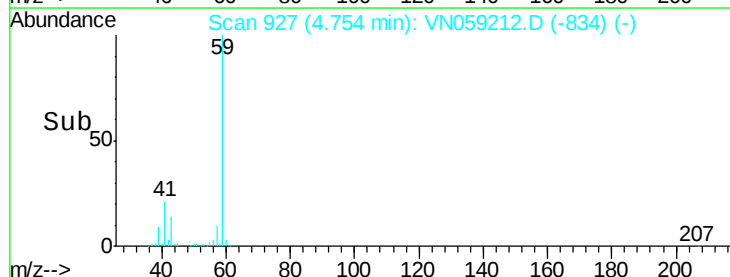
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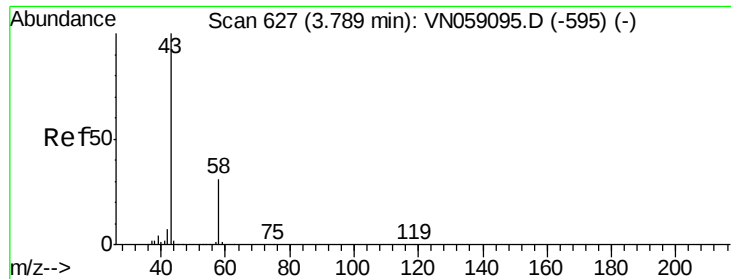
50000

0

4.60 4.70 4.80 4.90

Time-->

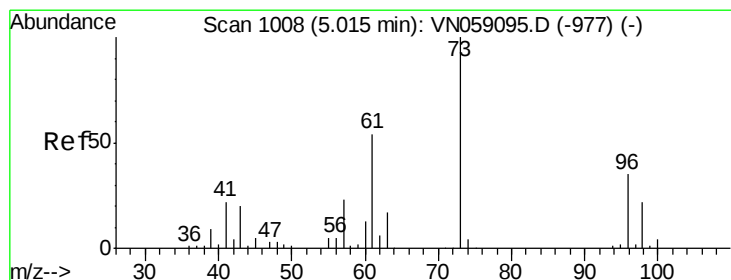
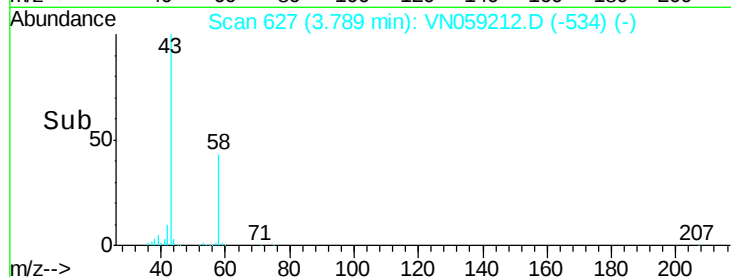
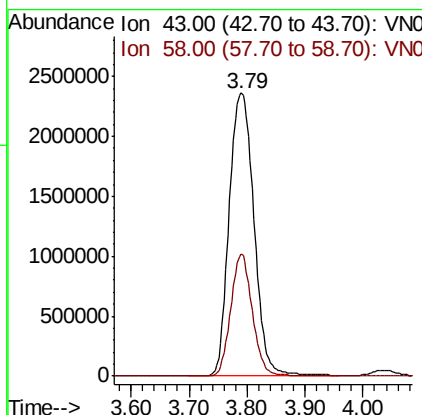
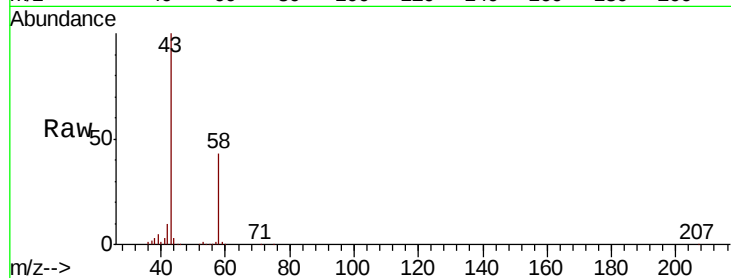




#16
Acetone
Concen: 2529.542 ug/l
RT: 3.79 min Scan# 627
Delta R.T. -0.00 min
Lab File: VN059212.D
Acq: 13 Nov 2019 16:21

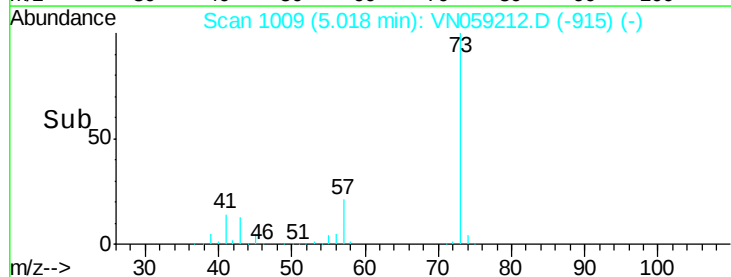
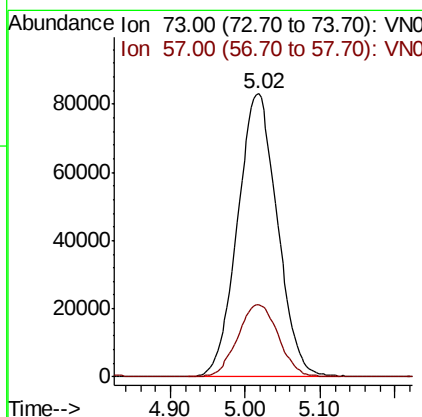
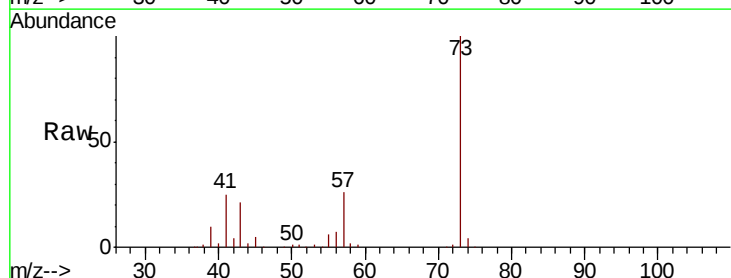
Instrument :
MSVOA_N
ClientSampled :
30535

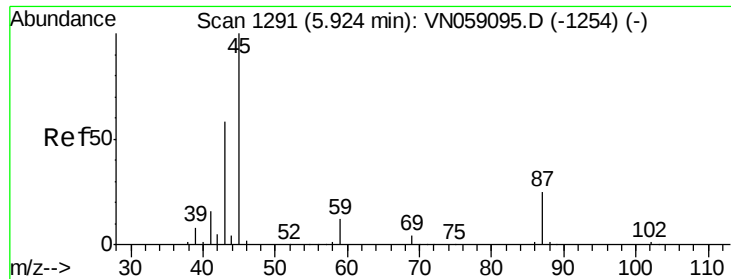
Tot Ion: 43 Resp: 7017657
Ion Ratio Lower Upper
43 100
58 43.2 24.9 37.3#



#19
Methyl tert-butyl Ether
Concen: 22.034 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN059212.D
Acq: 13 Nov 2019 16:21

Tgt Ion: 73 Resp: 307125
Ion Ratio Lower Upper
73 100
57 25.6 18.4 27.6

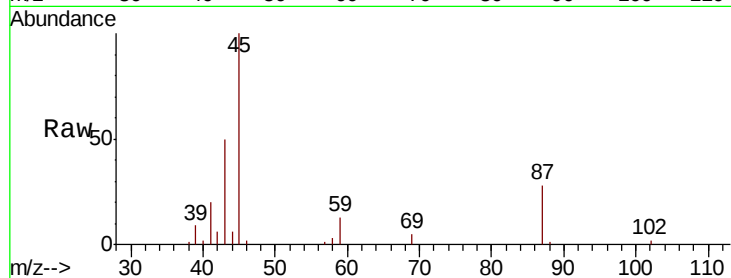




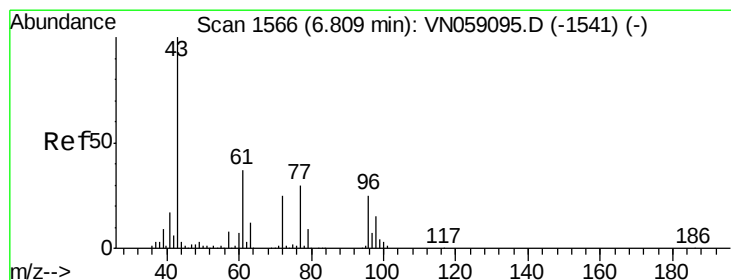
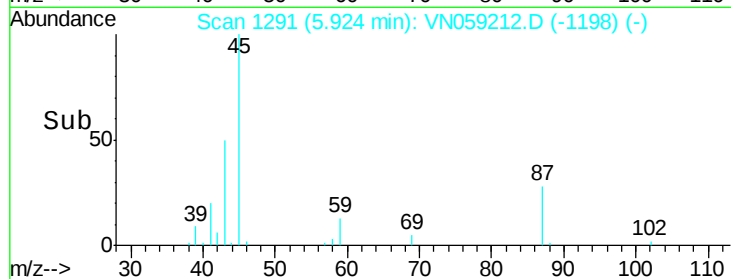
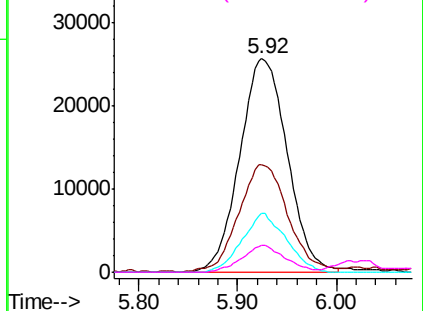
#22
Diisopropyl ether
Concen: 5.457 ug/l
RT: 5.92 min Scan# 1291
Delta R.T. -0.00 min
Lab File: VN059212.D
Acq: 13 Nov 2019 16:21

Instrument :
MSVOA_N
ClientSampleId :
30535

Tot Ion:	45	Resp:	85720
Ion	Ratio	Lower	Upper
45	100		
43	49.6	46.7	70.1
87	27.6	20.5	30.7
59	12.9	9.6	14.4

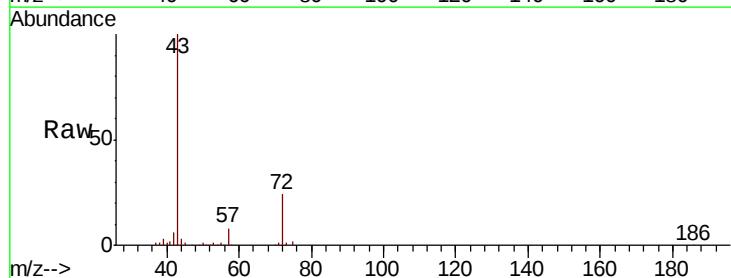


Abundance Ion 45.00 (44.70 to 45.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 87.00 (86.70 to 87.70): VN0
Ion 59.00 (58.70 to 59.70): VN0

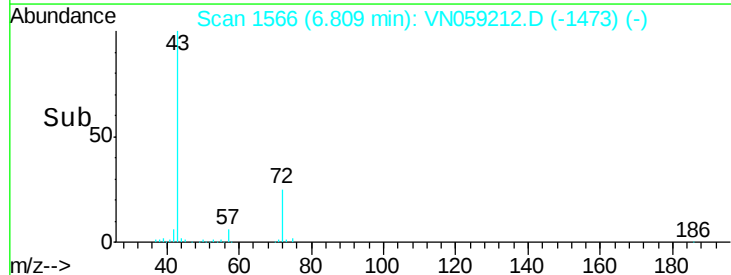
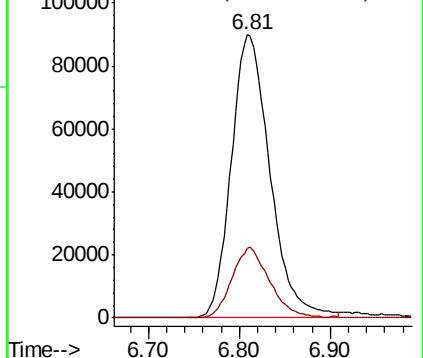


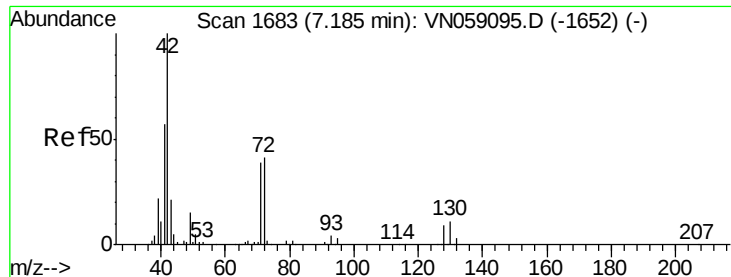
#25
2-Butanone
Concen: 72.204 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VN059212.D
Acq: 13 Nov 2019 16:21

Tgt Ion:	43	Resp:	264002
Ion	Ratio	Lower	Upper
43	100		
72	24.4	20.3	30.5



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





#29

Tetrahydrofuran

Concen: 4.228 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

30535

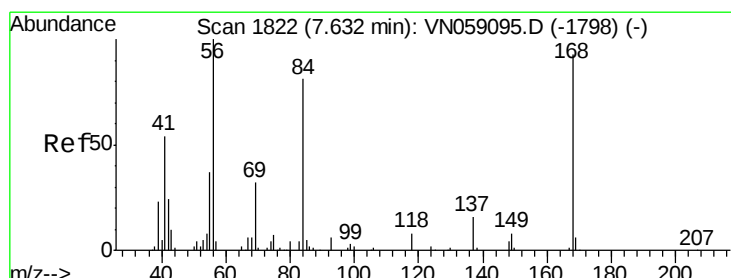
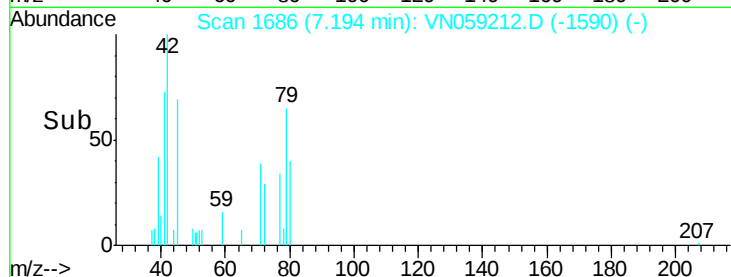
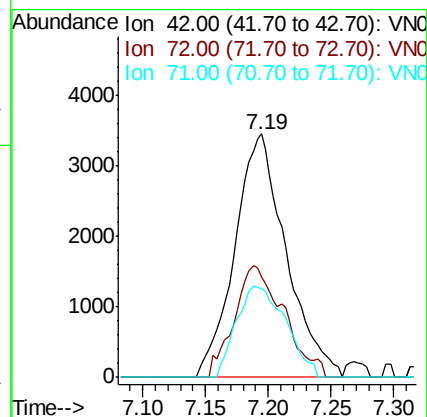
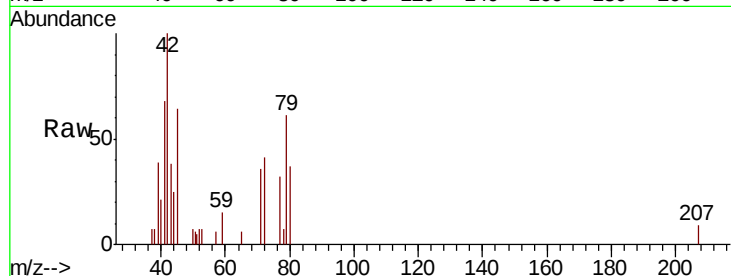
Tot Ion: 42 Resp: 9822

Ion Ratio Lower Upper

42 100

72 44.0 33.1 49.7

71 35.9 30.9 46.3



#31

Cyclohexane

Concen: 2.976 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

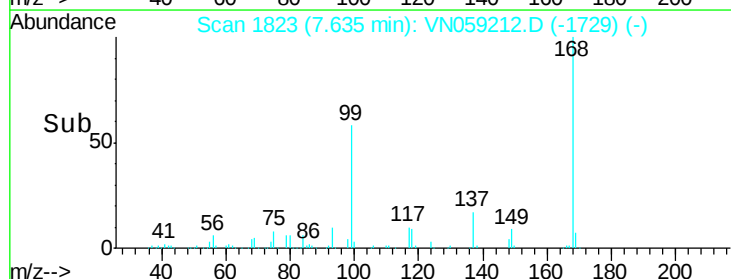
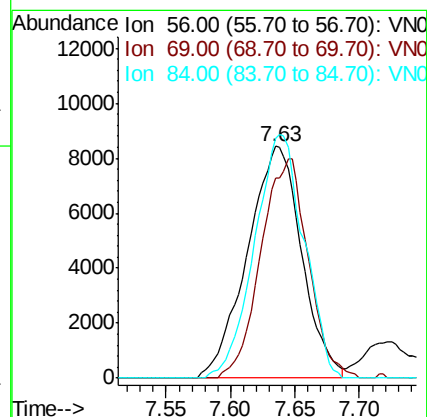
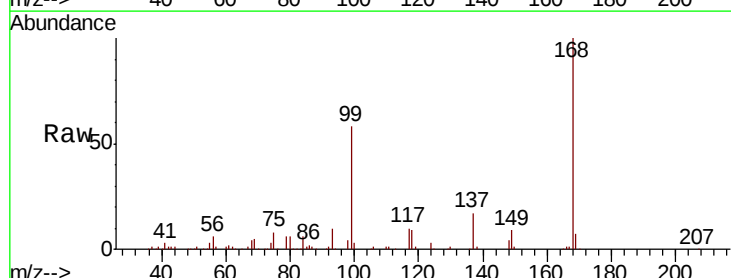
Tgt Ion: 56 Resp: 24719

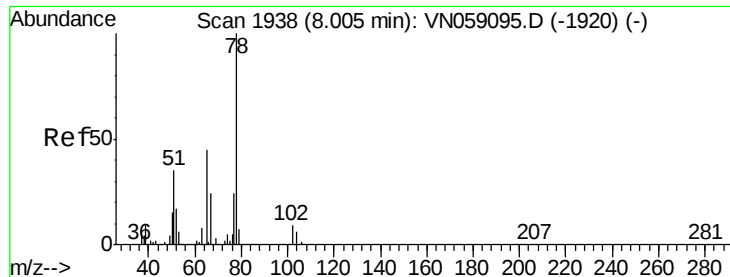
Ion Ratio Lower Upper

56 100

69 86.3 25.8 38.8#

84 103.5 65.0 97.4#

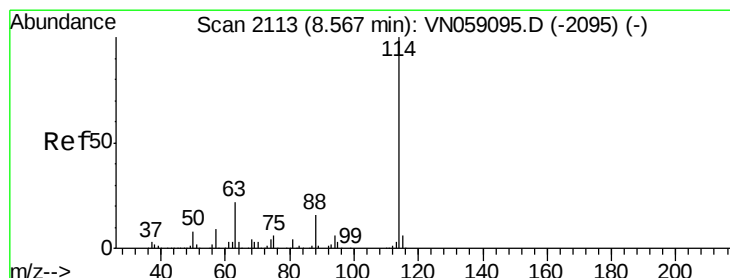
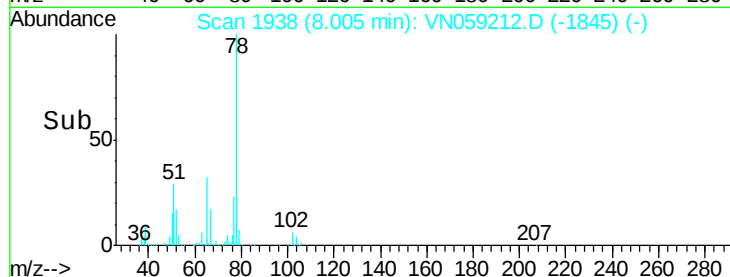
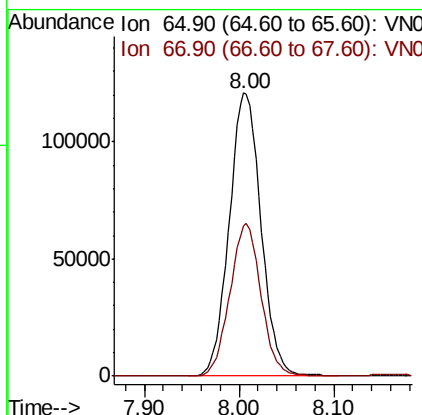
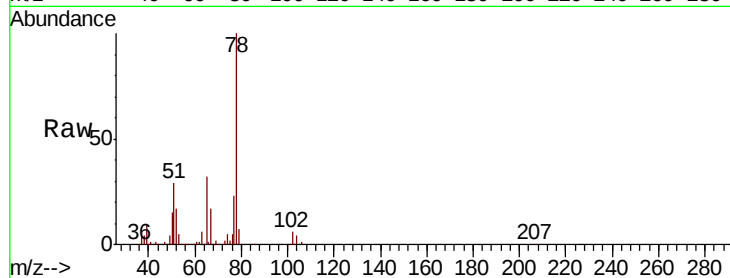




#33
 1,2-Dichloroethane-d4
 Concen: 52.894 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059212.D
 Acq: 13 Nov 2019 16:21

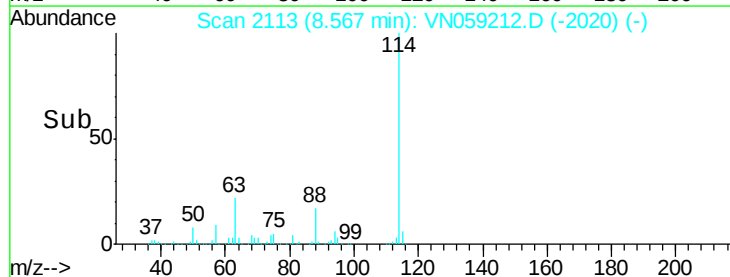
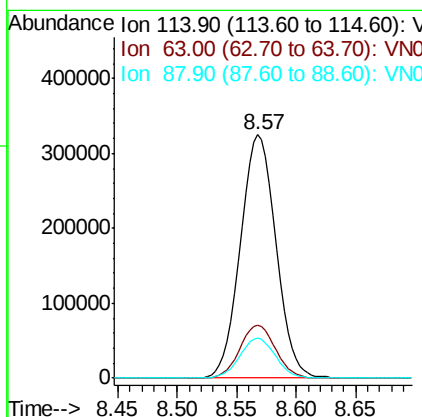
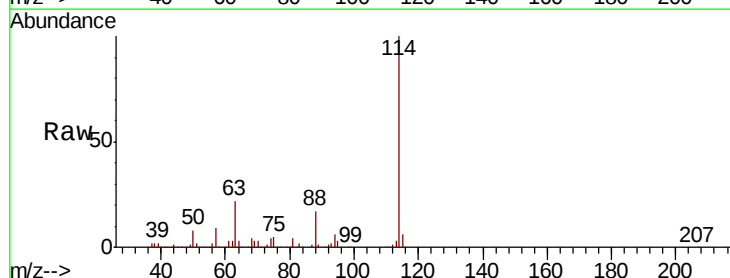
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 MSVOA_N
 ClientSampled :
 30535

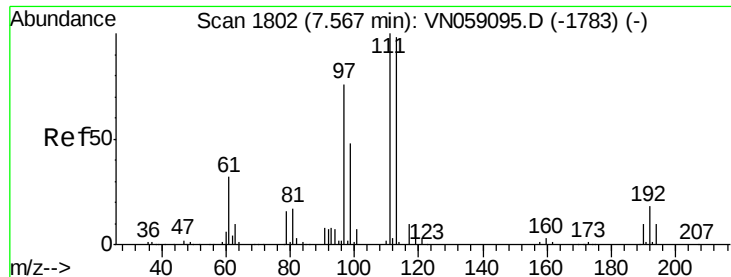
Tot Ion: 65 Resp: 282189
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059212.D
 Acq: 13 Nov 2019 16:21

Tgt Ion: 114 Resp: 673816
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.4
 88 16.6 0.0 32.2

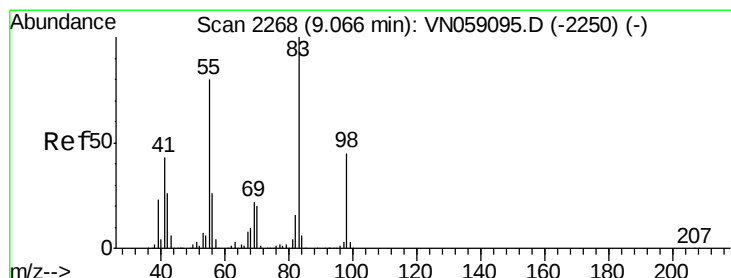
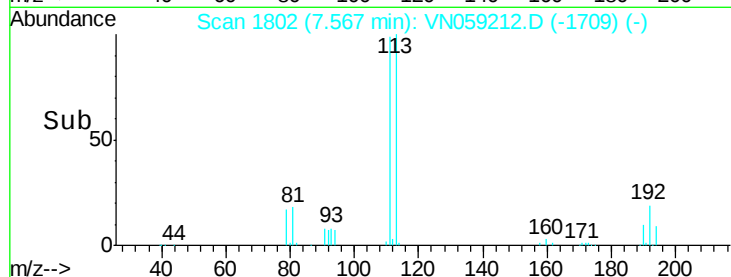
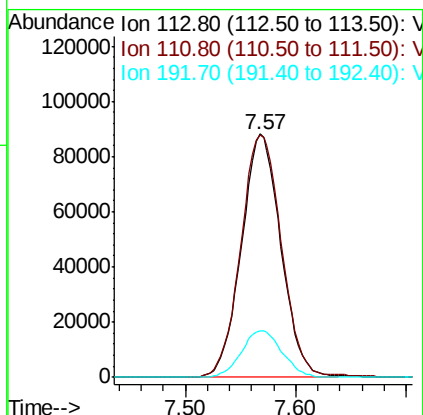
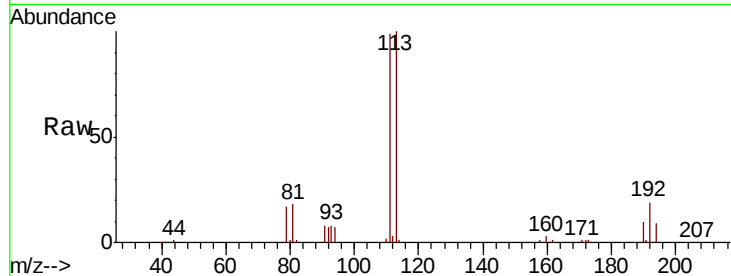




#35
Dibromofluoromethane
Concen: 54.247 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN059212.D
Acq: 13 Nov 2019 16:21

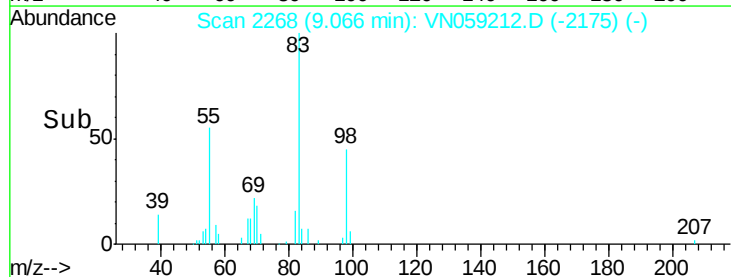
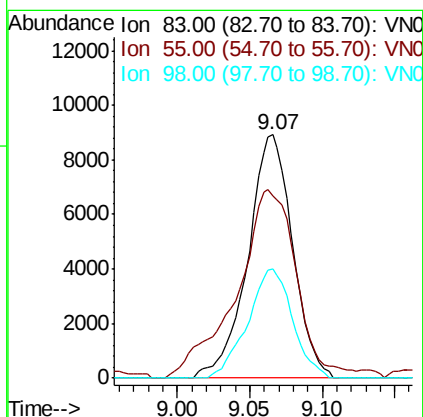
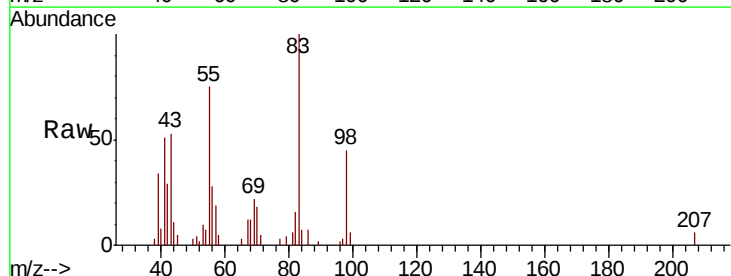
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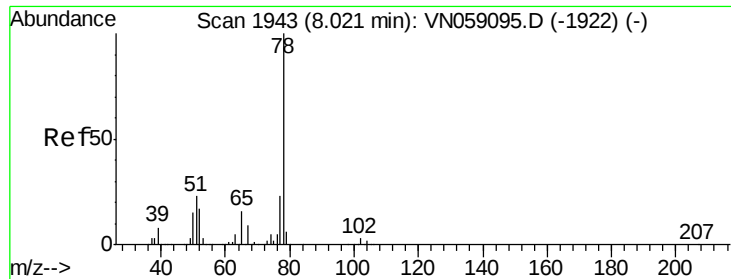
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.8	124.2
192	19.9	16.1	24.1



#39
Methylcyclohexane
Concen: 2.618 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059212.D
Acq: 13 Nov 2019 16:21

Tgt Ion	Ratio	Lower	Upper
83	100		
55	70.8	63.9	95.9
98	44.8	35.6	53.4





#40

Benzene

Concen: 82.828 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

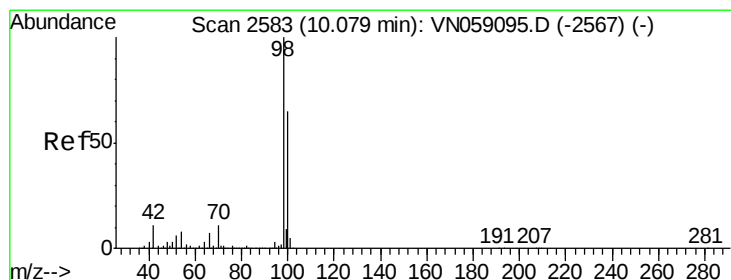
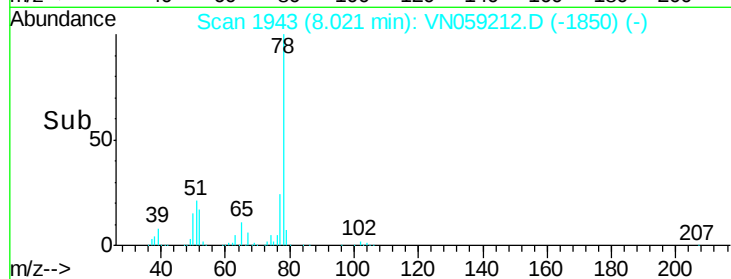
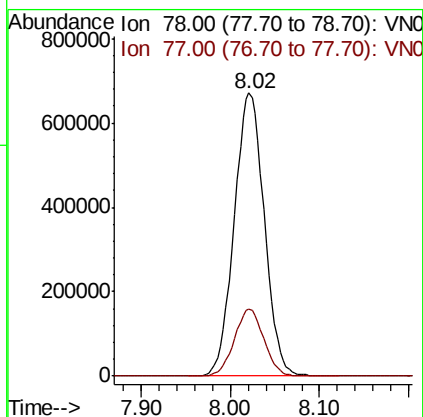
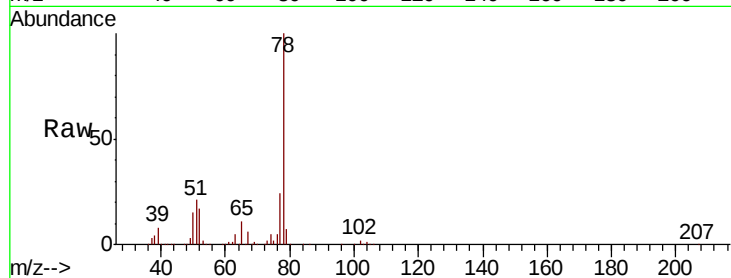
30535

Tot Ion: 78 Resp: 1570937

Ion Ratio Lower Upper

78 100

77 23.6 18.8 28.2



#50

Toluene-d8

Concen: 54.933 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059212.D

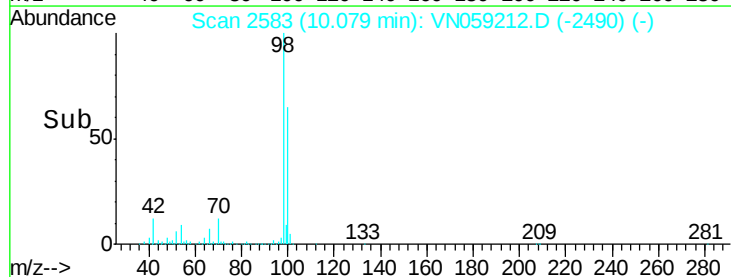
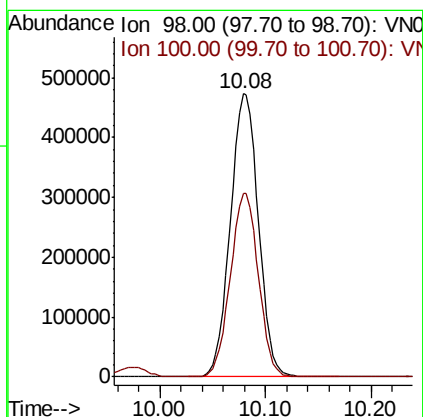
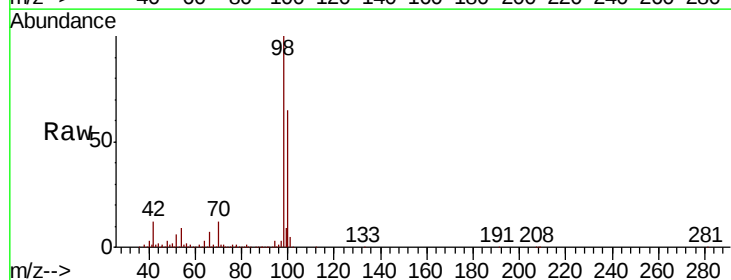
Acq: 13 Nov 2019 16:21

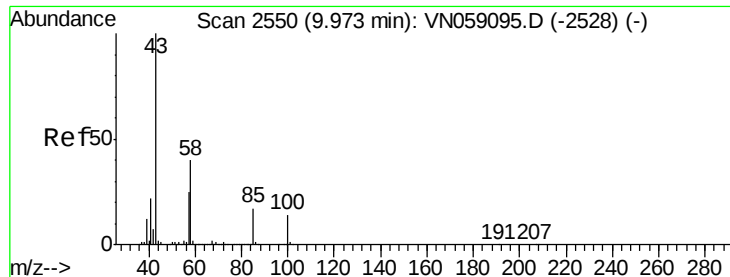
Tgt Ion: 98 Resp: 870560

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 36.859 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

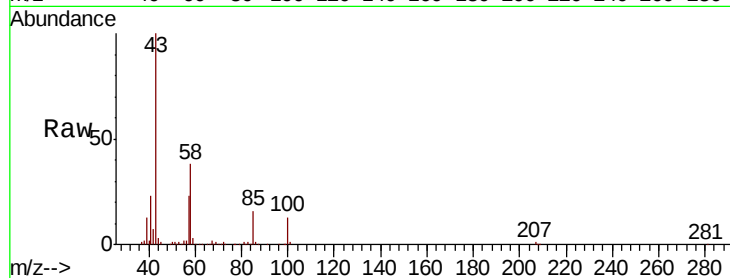
30535

Tot Ion: 43 Resp: 232962

Ion Ratio Lower Upper

43 100

58 39.2 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VN059095.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN059095.D (-2528) (-)

9.97

150000

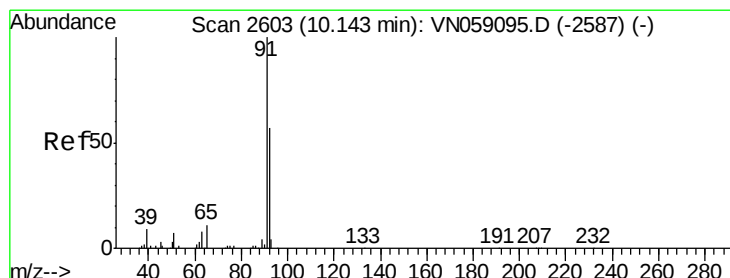
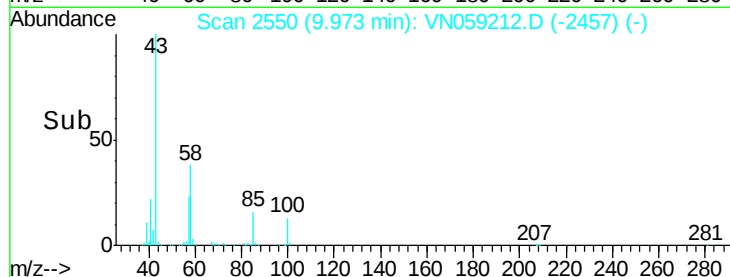
100000

50000

0

9.90 9.95 10.00 10.05

Time-->



#52

Toluene

Concen: 490.259 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059212.D

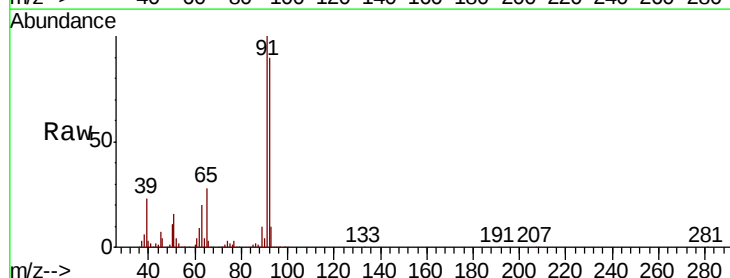
Acq: 13 Nov 2019 16:21

Tgt Ion: 92 Resp: 5573136

Ion Ratio Lower Upper

92 100

91 126.1 139.5 209.3#



Abundance Ion 92.00 (91.70 to 92.70): VN059095.D (-2587) (-)

Ion 91.00 (90.70 to 91.70): VN059095.D (-2587) (-)

10.15

3000000

2500000

2000000

1500000

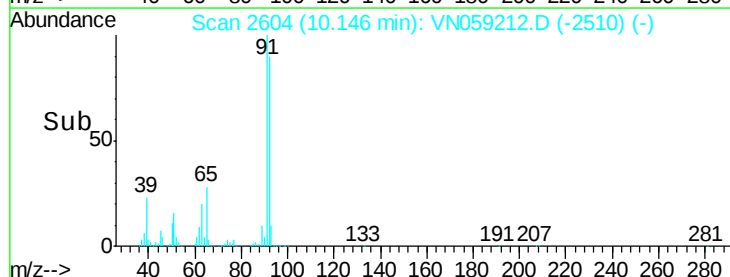
1000000

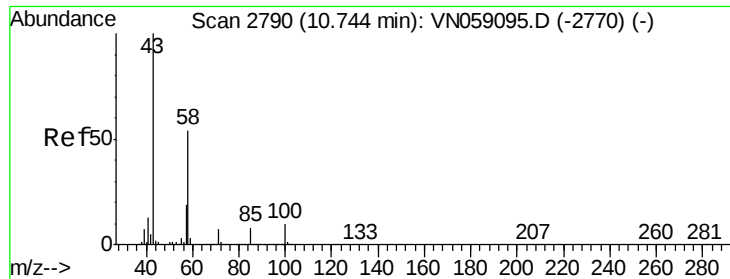
500000

0

10.00 10.20 10.40

Time-->

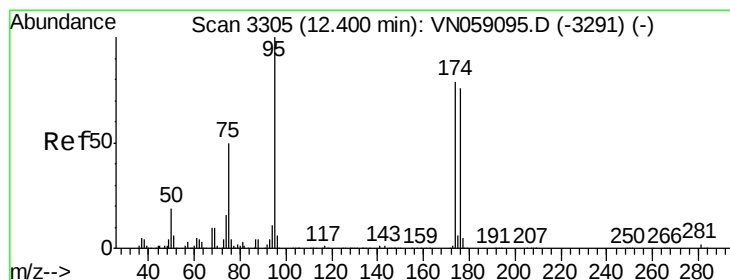
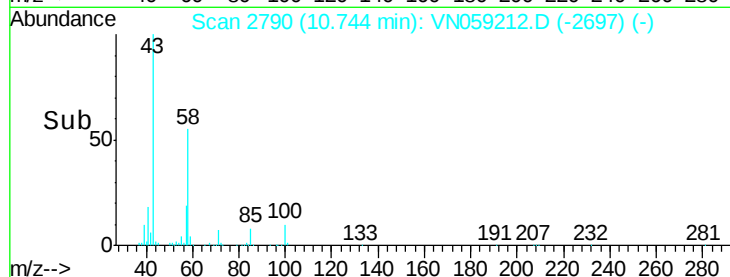
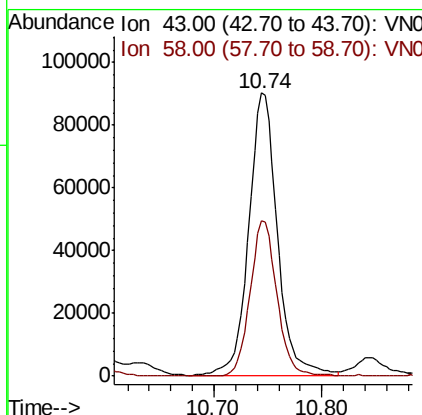
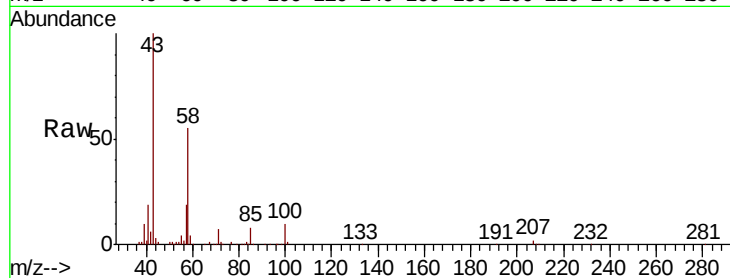




#59
2-Hexanone
Concen: 34.048 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. -0.00 min
Lab File: VN059212.D
Acq: 13 Nov 2019 16:21

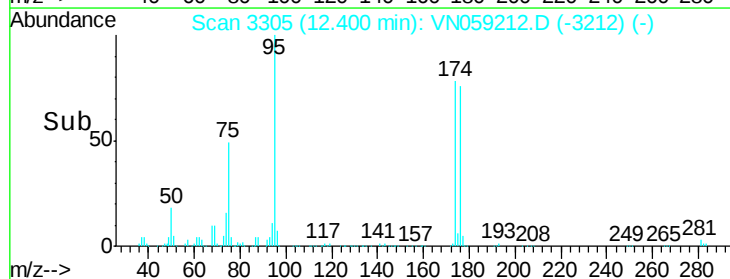
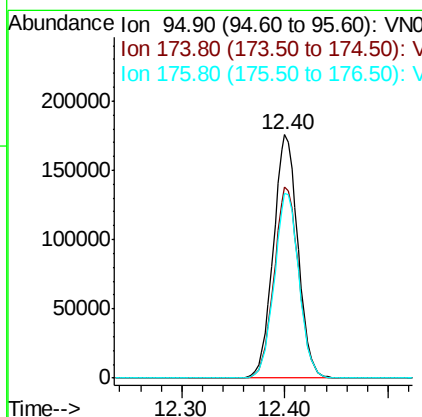
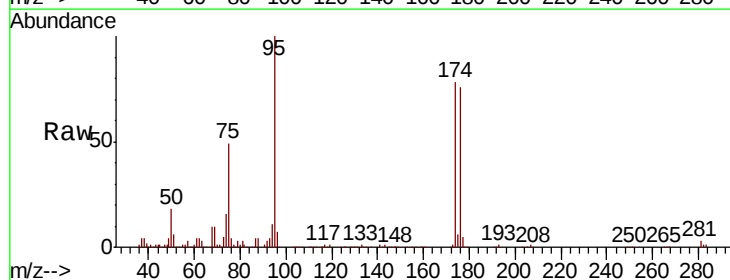
Instrument :
MSVOA_N
ClientSampled :
30535

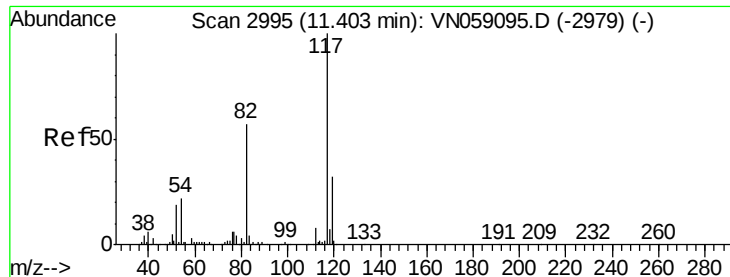
Tot Ion: 43 Resp: 165173
Ion Ratio Lower Upper
43 100
58 52.1 27.3 81.8



#62
4-Bromofluorobenzene
Concen: 50.539 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059212.D
Acq: 13 Nov 2019 16:21

Tgt Ion: 95 Resp: 288782
Ion Ratio Lower Upper
95 100
174 79.1 0.0 158.2
176 76.5 0.0 151.8

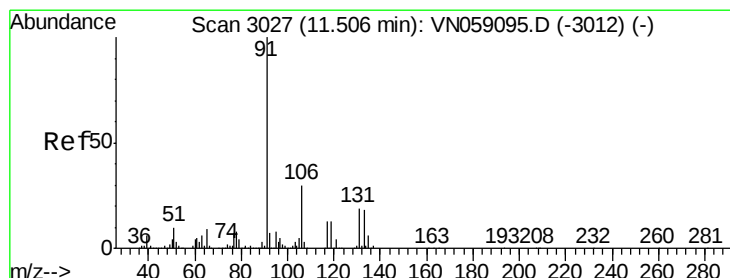
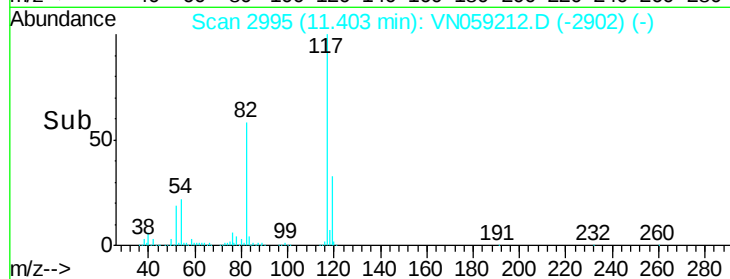
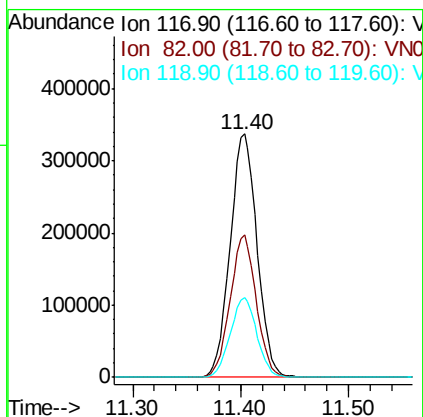
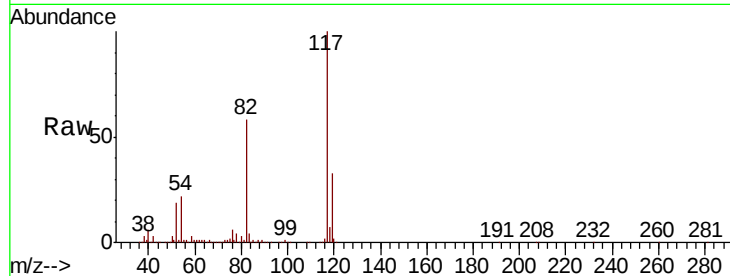




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN059212.D
Acq: 13 Nov 2019 16:21

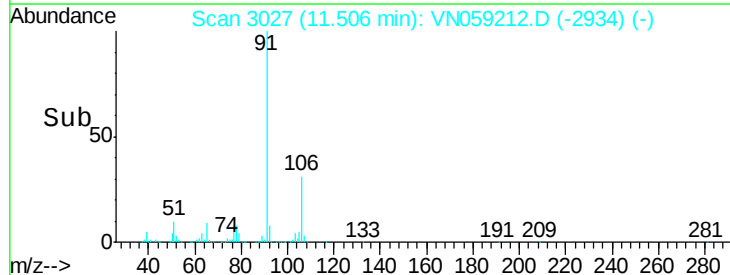
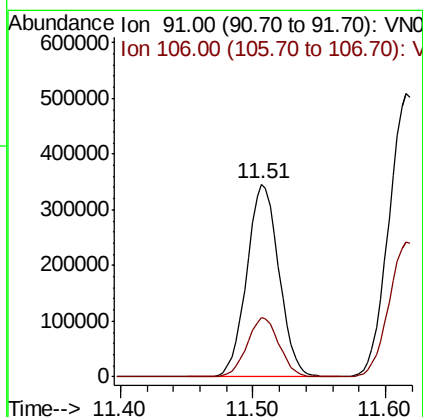
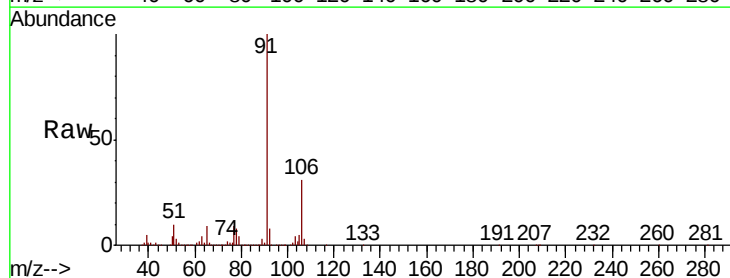
Instrument :
MSVOA_N
ClientSampled :
30535

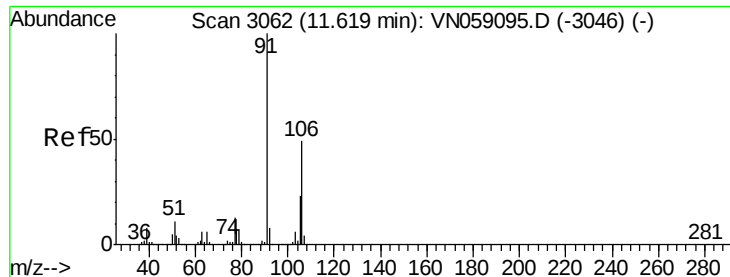
Tot Ion:117 Resp: 587288
Ion Ratio Lower Upper
117 100
82 58.2 45.8 68.8
119 32.7 25.8 38.6



#67
Ethyl Benzene
Concen: 28.650 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN059212.D
Acq: 13 Nov 2019 16:21

Tgt Ion: 91 Resp: 581946
Ion Ratio Lower Upper
91 100
106 30.6 24.1 36.1





#68

m/p-Xylenes

Concen: 61.504 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

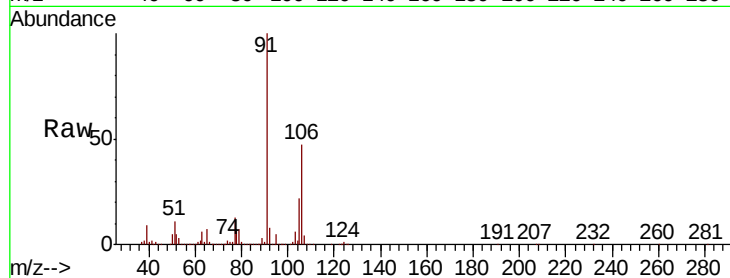
30535

Tot Ion:106 Resp: 467971

Ion Ratio Lower Upper

106 100

91 208.7 164.7 247.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

600000

500000

400000

300000

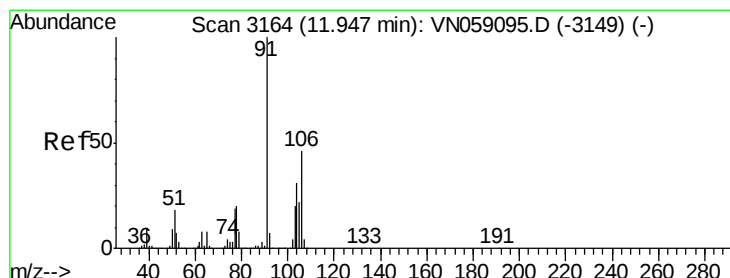
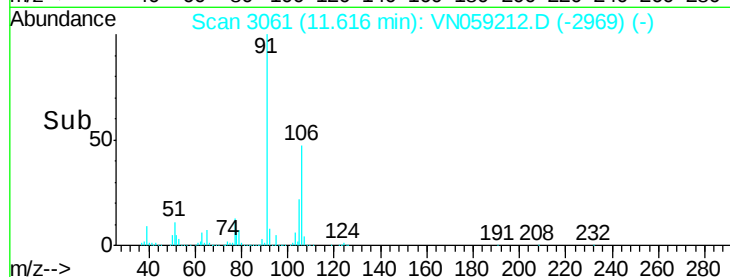
200000

100000

0

11.55 11.60 11.65 11.70

Time-->



#69

o-Xylene

Concen: 165.805 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN059212.D

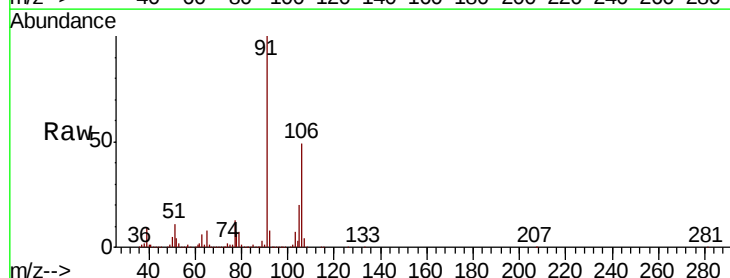
Acq: 13 Nov 2019 16:21

Tgt Ion:106 Resp: 1219182

Ion Ratio Lower Upper

106 100

91 212.1 110.1 330.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

1500000

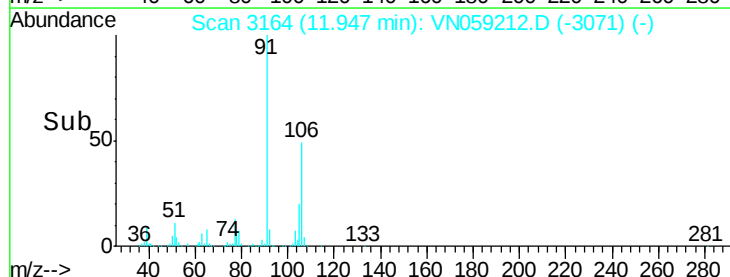
1000000

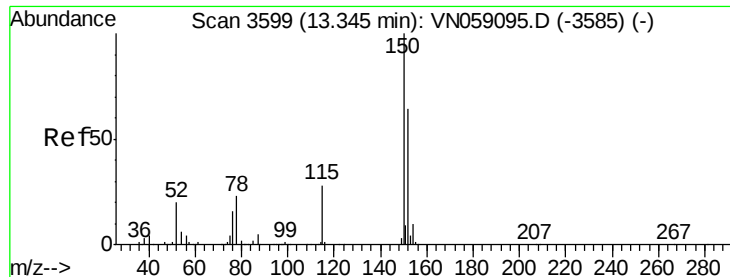
500000

0

11.90 12.00

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

30535

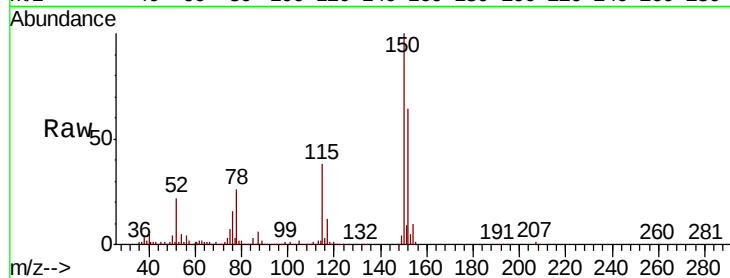
Tot Ion:152 Resp: 235476

Ion Ratio Lower Upper

152 100

115 63.2 29.4 88.2

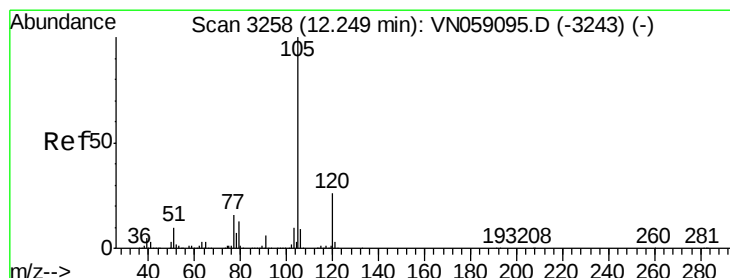
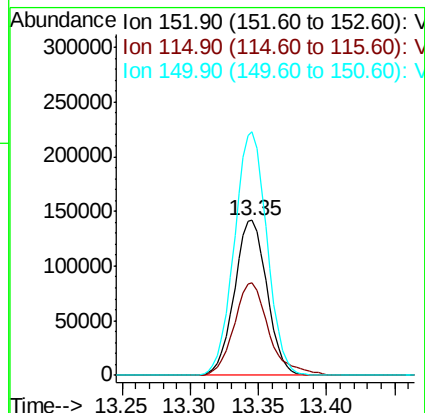
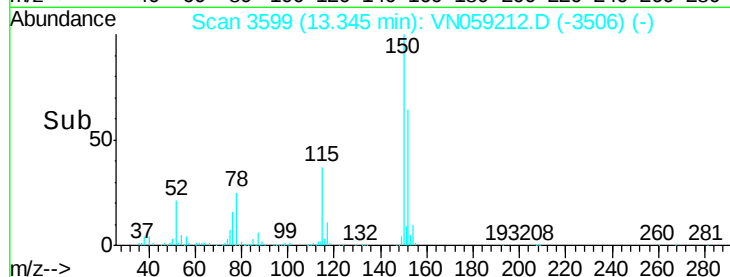
150 157.3 0.0 345.8



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



#73

Isopropylbenzene

Concen: 0.907 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059212.D

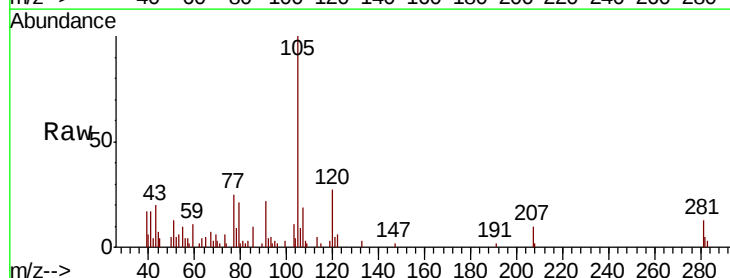
Acq: 13 Nov 2019 16:21

Tgt Ion:105 Resp: 15535

Ion Ratio Lower Upper

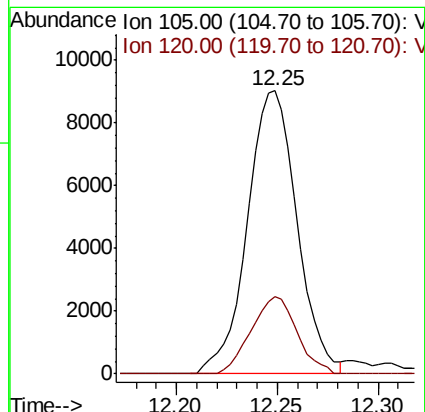
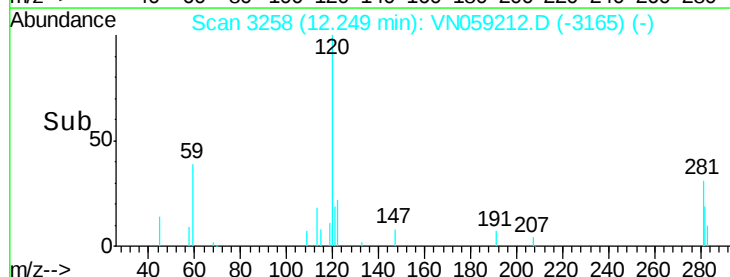
105 100

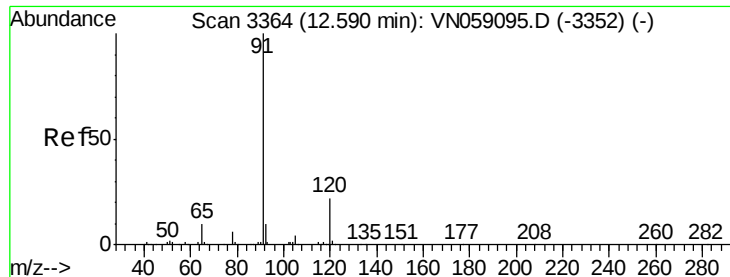
120 25.3 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 1.065 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA_N

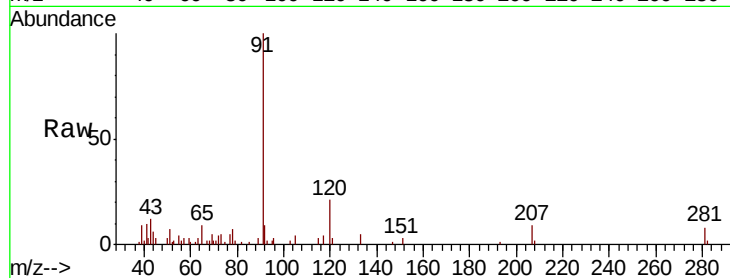
ClientSampleId :
30535

Tot Ion: 91 Resp: 20892

Ion Ratio Lower Upper

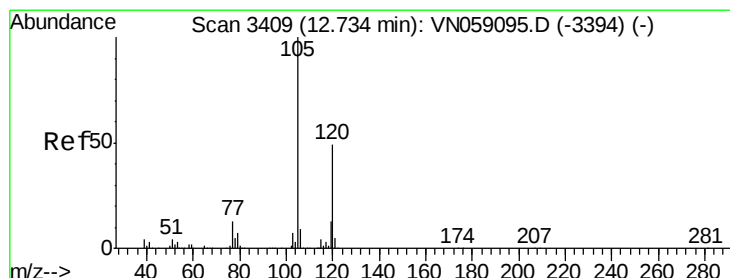
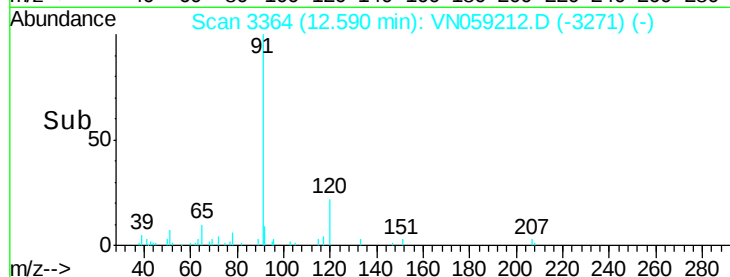
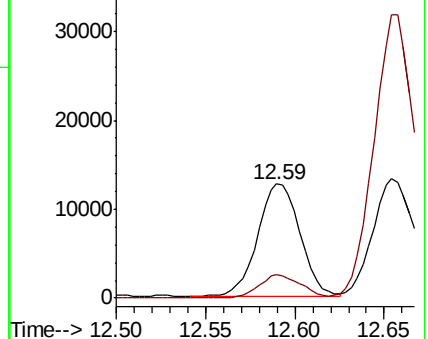
91 100

120 20.9 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN059212.D (-3271) (-)

Ion 120.00 (119.70 to 120.70): VN059212.D (-3271) (-)



#80

1,3,5-Trimethylbenzene

Concen: 11.959 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059212.D

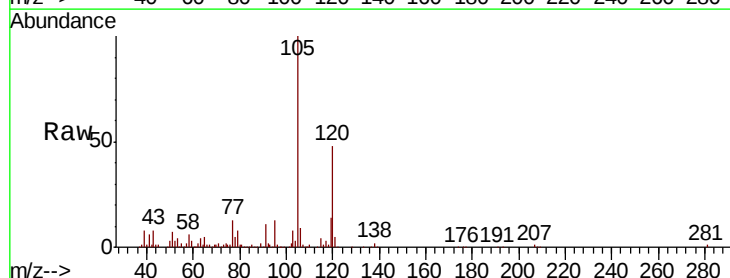
Acq: 13 Nov 2019 16:21

Tgt Ion: 105 Resp: 173571

Ion Ratio Lower Upper

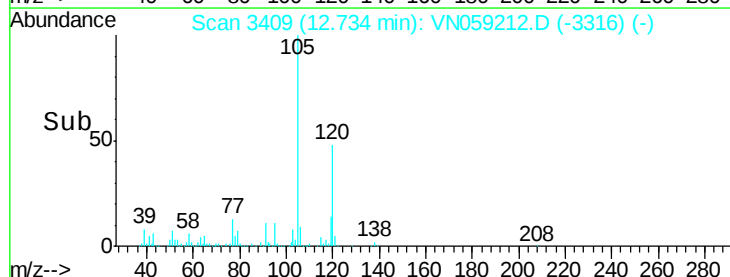
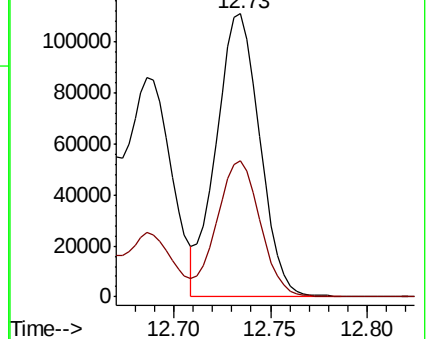
105 100

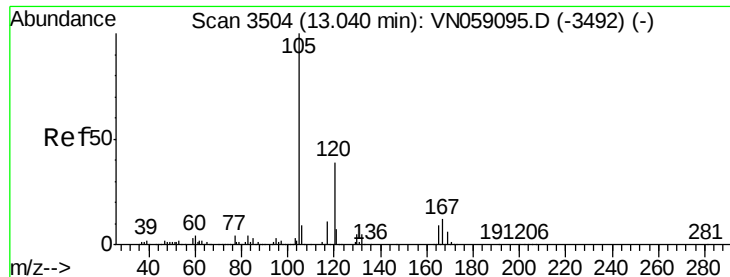
120 48.1 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): VN059212.D (-3316) (-)

Ion 120.00 (119.70 to 120.70): VN059212.D (-3316) (-)





#84

1,2,4-Trimethylbenzene

Concen: 6.739 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA_N

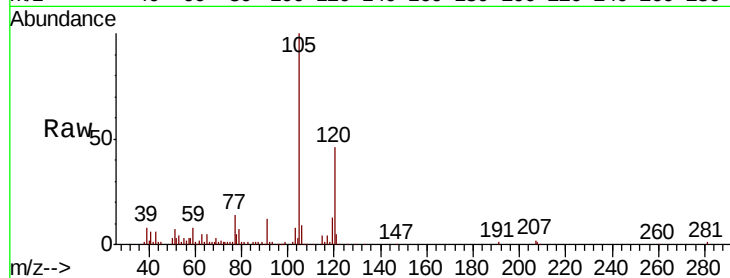
ClientSampleId :
30535

Tot Ion:105 Resp: 94629

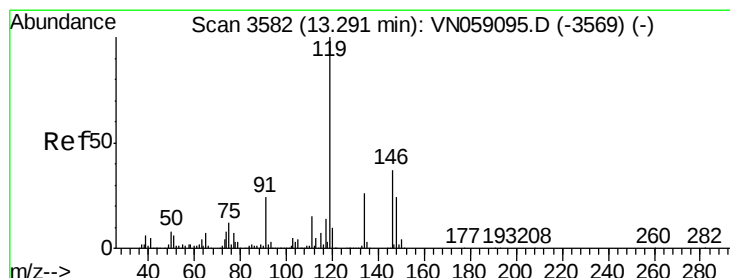
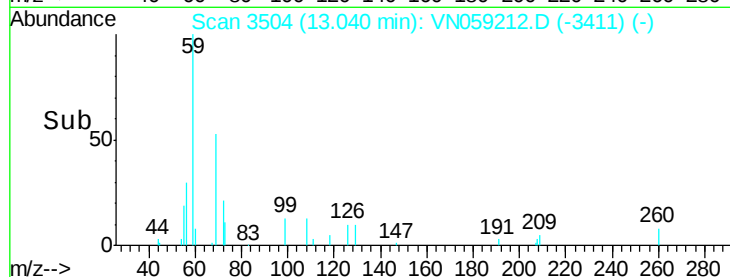
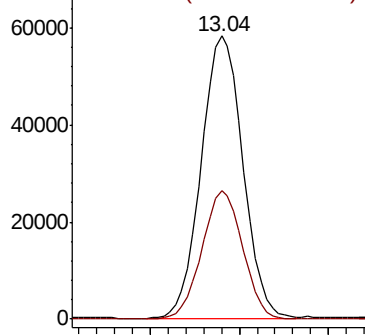
Ion Ratio Lower Upper

105 100

120 44.7 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V



#86

p-Isopropyltoluene

Concen: 0.381 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

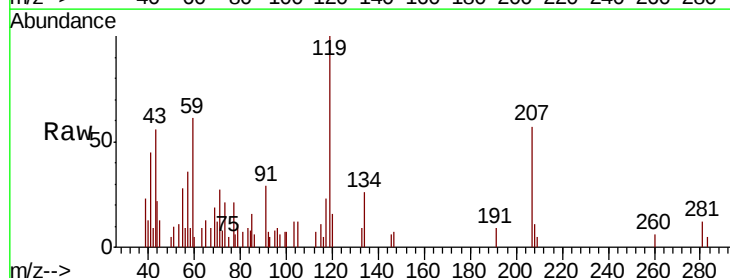
Tgt Ion:119 Resp: 5487

Ion Ratio Lower Upper

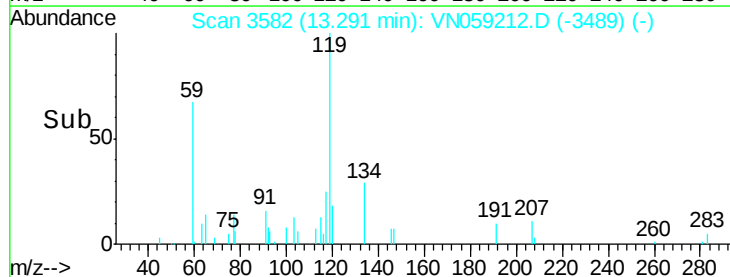
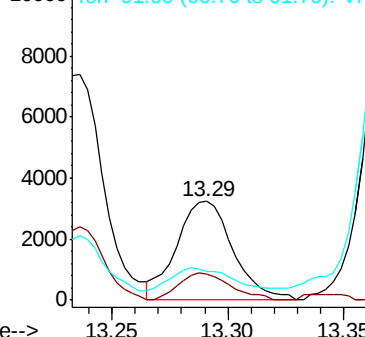
119 100

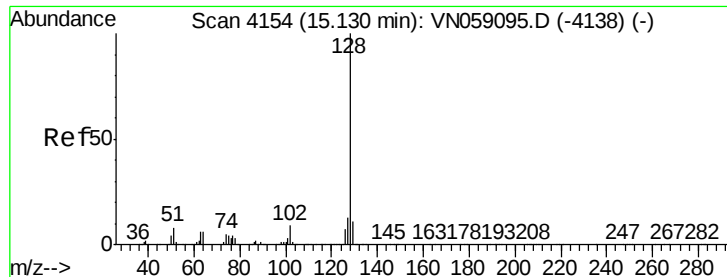
134 25.1 13.0 38.9

91 23.5 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V





#95

Naphthalene

Concen: 5.347 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

30535

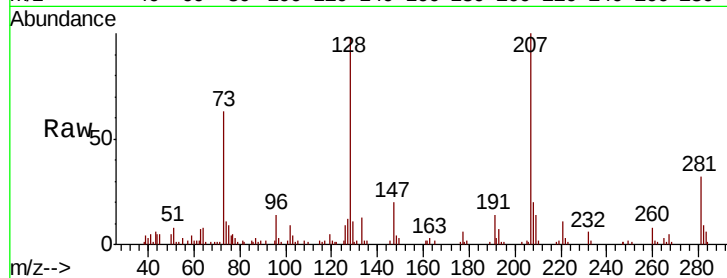
Tot Ion:128 Resp: 29917

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.2

129 11.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

