

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111819\
 Data File : VN059293.D
 Acq On : 18 Nov 2019 18:40
 Operator : JC/SP
 Sample : K5900-16 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30725

Quant Time: Nov 19 08:52:04 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	442666	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	678418	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	594078	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	325597	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	249371	45.83	ug/l	0.00
Spiked Amount			Recovery	=	91.66%	
35) Dibromofluoromethane	7.57	113	200087	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
50) Toluene-d8	10.08	98	831481	52.11	ug/l	0.00
Spiked Amount			Recovery	=	104.22%	
62) 4-Bromofluorobenzene	12.40	95	293356	50.99	ug/l	0.00
Spiked Amount			Recovery	=	101.98%	

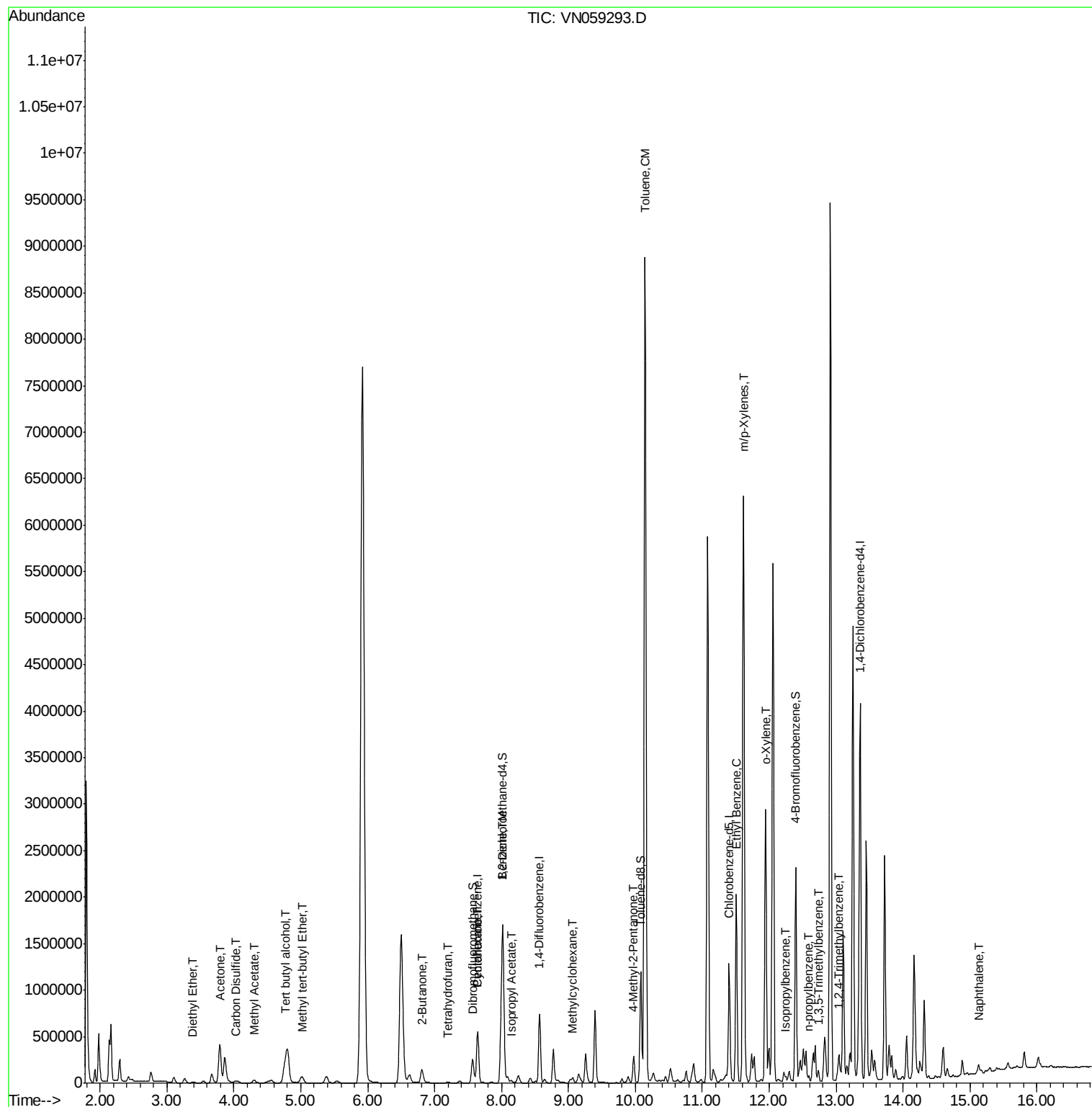
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.39	74	5781	2.024	ug/l	91
11) Tert butyl alcohol	4.76	59	432774	417.319	ug/l	98
16) Acetone	3.79	43	676592	239.105	ug/l	97
17) Carbon Disulfide	4.02	76	27043	2.110	ug/l	98
18) Methyl Acetate	4.30	43	60829	9.057	ug/l	99
19) Methyl tert-butyl Ether	5.01	73	82978	5.837	ug/l #	40
25) 2-Butanone	6.81	43	249238	66.831	ug/l	98
29) Tetrahydrofuran	7.20	42	6728	2.839	ug/l #	87
31) Cyclohexane	7.63	56	28887	3.410	ug/l #	51
39) Methylcyclohexane	9.07	83	21369	2.904	ug/l	97
40) Benzene	8.02	78	1537752	80.529	ug/l	100
43) Isopropyl Acetate	8.15	43	25357	2.255	ug/l #	64
51) 4-Methyl-2-Pentanone	9.97	43	191947	30.163	ug/l	98
52) Toluene	10.15	92	4656333	406.831	ug/l #	71
67) Ethyl Benzene	11.51	91	1510849	73.531	ug/l	98
68) m/p-Xylenes	11.62	106	2134226	277.291	ug/l	88
69) o-Xylene	11.95	106	817937	109.966	ug/l	98
73) Isopropylbenzene	12.25	105	33902	1.431	ug/l	100
78) n-propylbenzene	12.59	91	40466	1.492	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	57946	2.887	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	164399	8.467	ug/l	98
95) Naphthalene	15.13	128	75582	7.252	ug/l	98

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059293.D

Acq: 18 Nov 2019 18:40

Instrument :

MSVOA_N

ClientSampled :

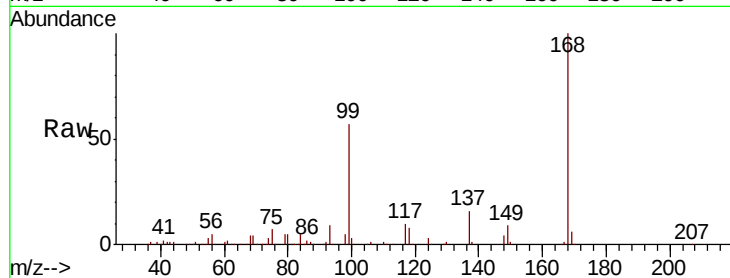
30725

Tot Ion:168 Resp: 442666

Ion Ratio Lower Upper

168 100

99 56.6 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

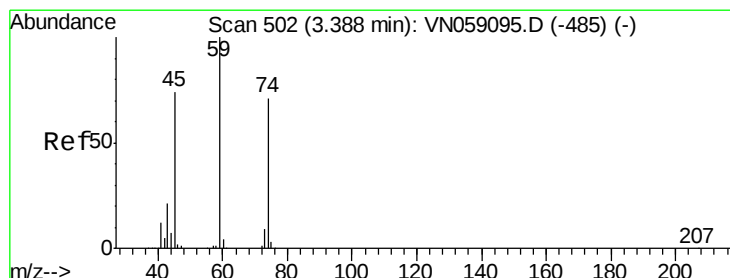
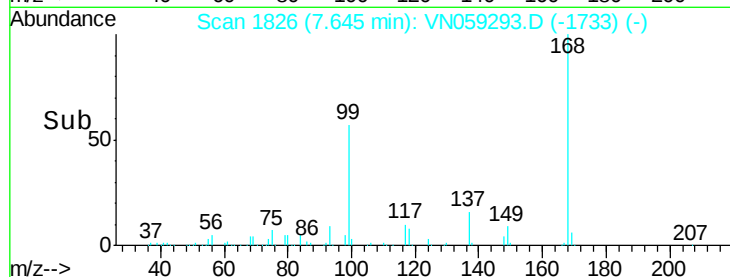
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#8

Diethyl Ether

Concen: 2.024 ug/l

RT: 3.39 min Scan# 502

Delta R.T. 0.00 min

Lab File: VN059293.D

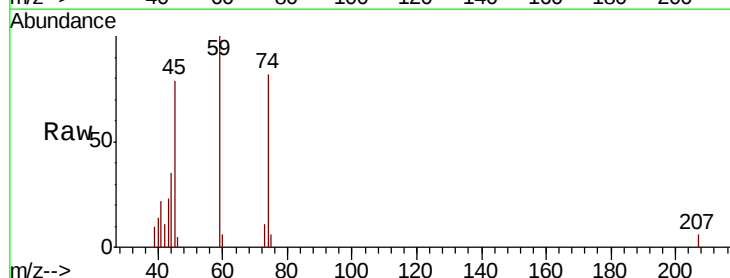
Acq: 18 Nov 2019 18:40

Tgt Ion: 74 Resp: 5781

Ion Ratio Lower Upper

74 100

45 112.3 51.6 154.9



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

3.39

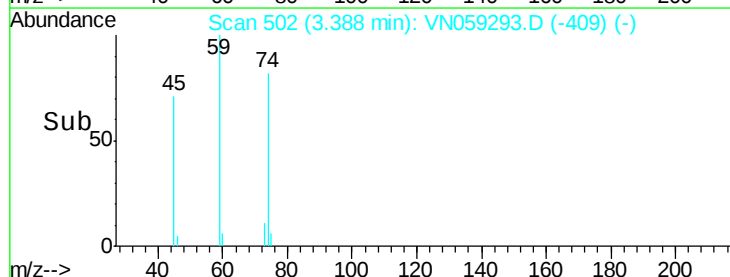
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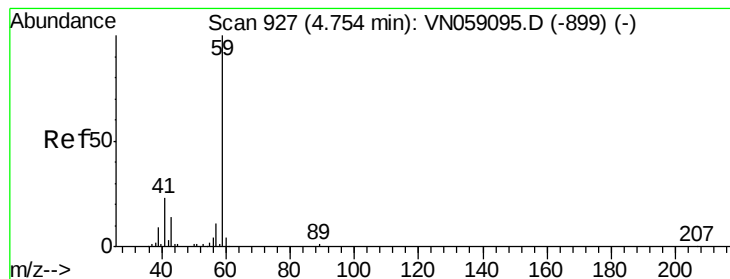
2000

1000

0

Time--> 3.35 3.40 3.45



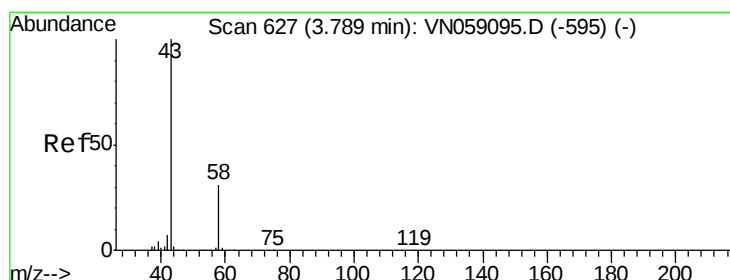
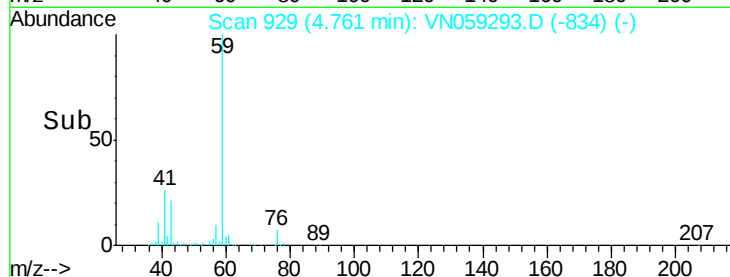
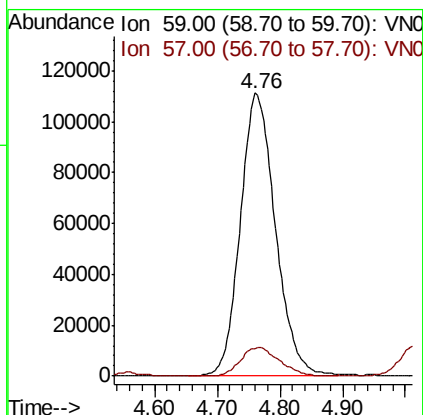
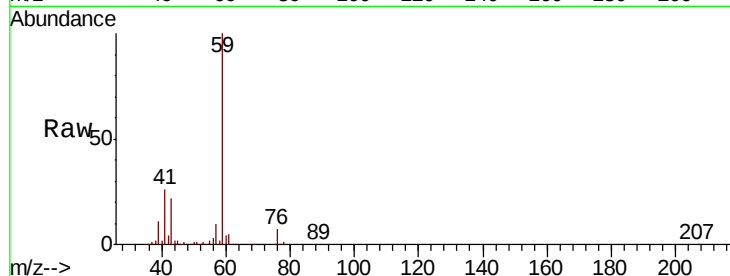


#11

Tert butyl alcohol
 Concen: 417.319 ug/l
 RT: 4.76 min Scan# 929
 Delta R.T. 0.01 min
 Lab File: VN059293.D
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Instrument :
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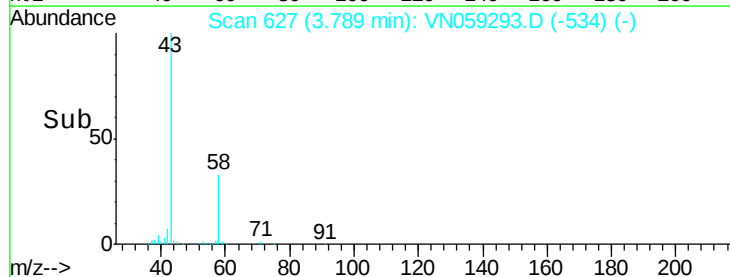
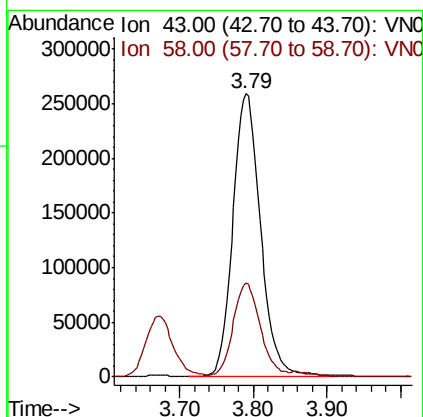
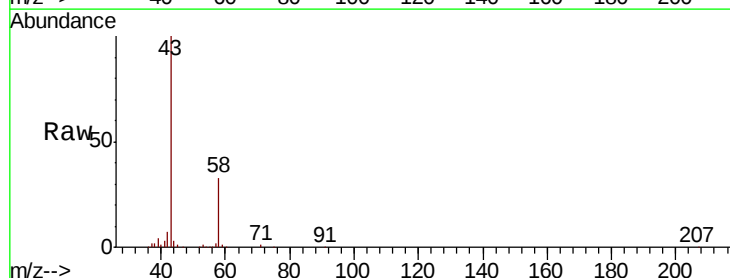
Tot Ion: 59 Resp: 432774
 Ion Ratio Lower Upper
 59 100
 57 11.2 8.3 12.5

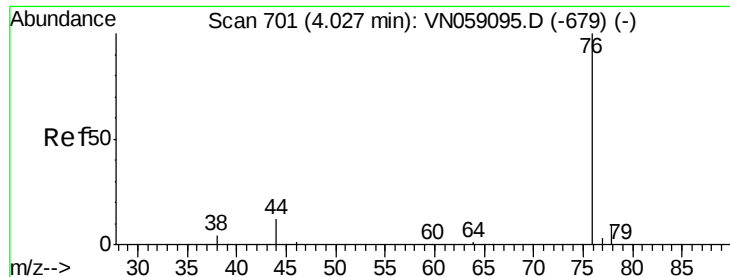


#16

Acetone
 Concen: 239.105 ug/l
 RT: 3.79 min Scan# 627
 Delta R.T. 0.00 min
 Lab File: VN059293.D
 Acq: 18 Nov 2019 18:40

Tgt Ion: 43 Resp: 676592
 Ion Ratio Lower Upper
 43 100
 58 33.0 24.9 37.3

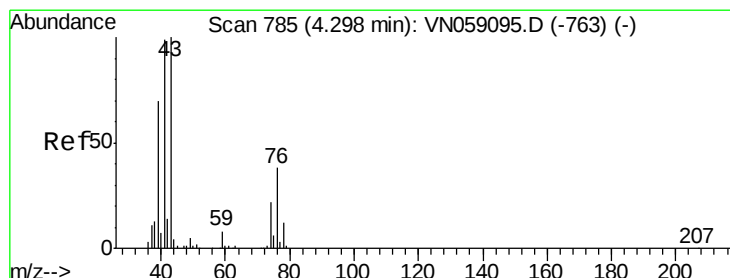
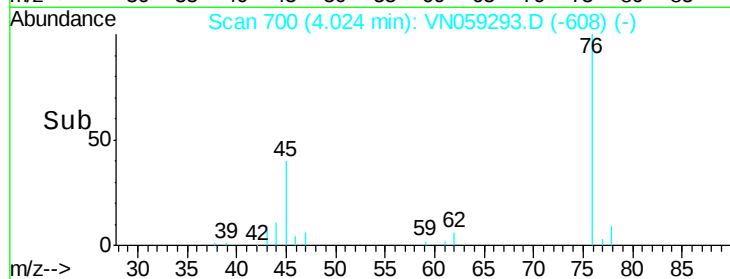
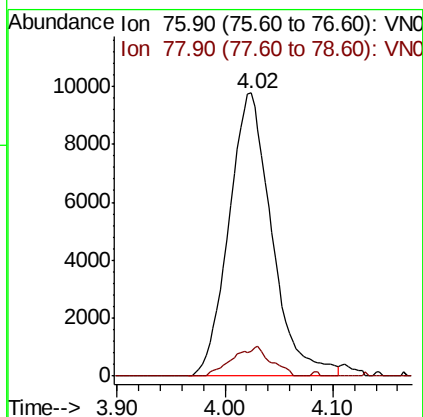
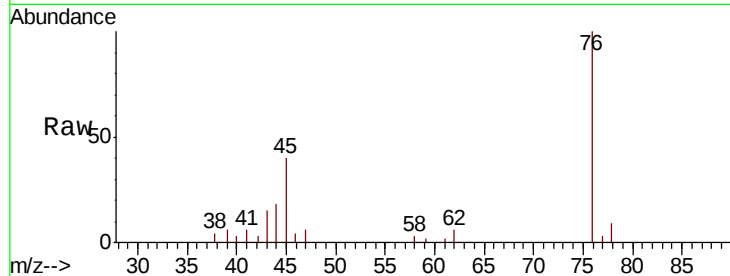




#17
Carbon Disulfide
Concen: 2.110 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.00 min
Lab File: VN059293.D
Acq: 18 Nov 2019 18:40

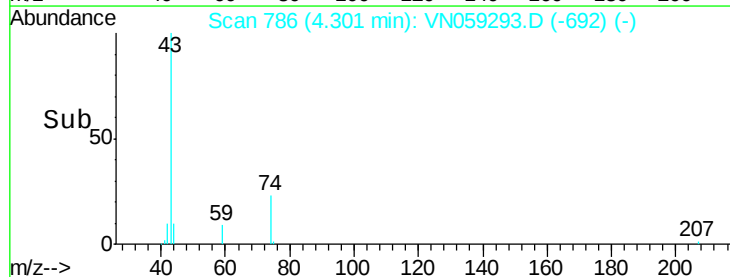
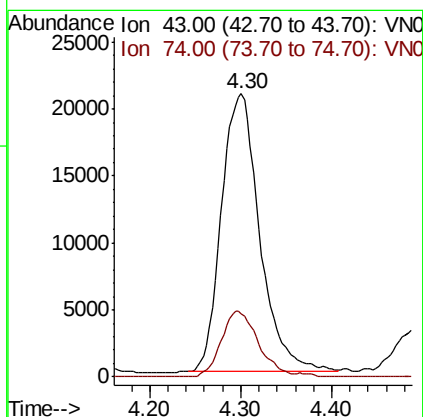
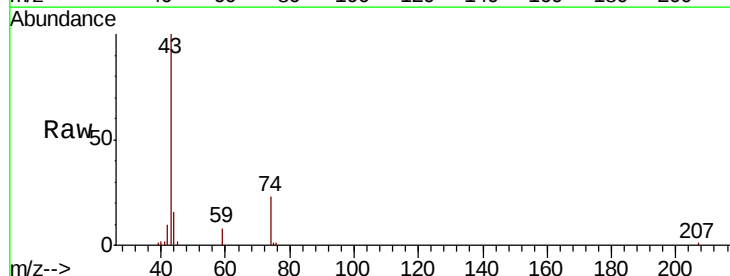
Instrument :
MSVOA_N
ClientSampled :
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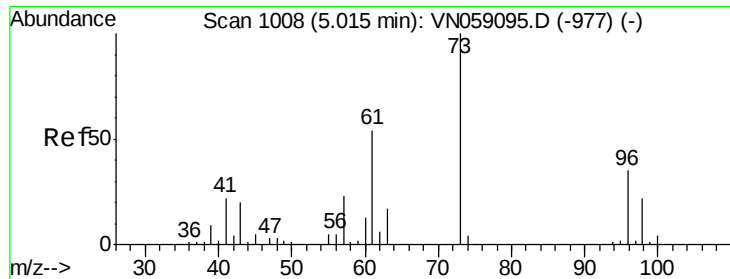
Tot Ion: 76 Resp: 27043
Ion Ratio Lower Upper
76 100
78 8.6 7.4 11.0



#18
Methyl Acetate
Concen: 9.057 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.00 min
Lab File: VN059293.D
Acq: 18 Nov 2019 18:40

Tgt Ion: 43 Resp: 60829
Ion Ratio Lower Upper
43 100
74 22.7 17.8 26.8

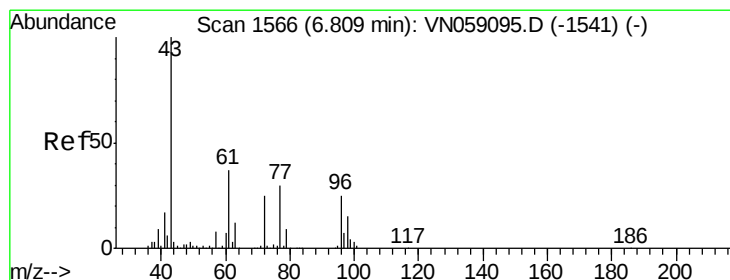
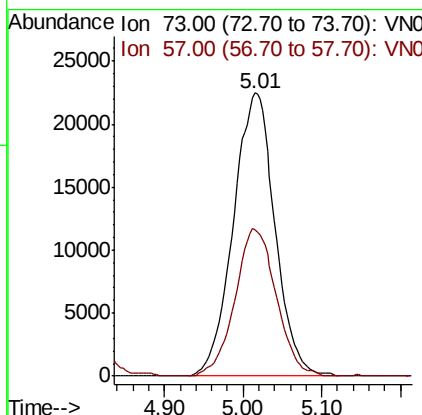
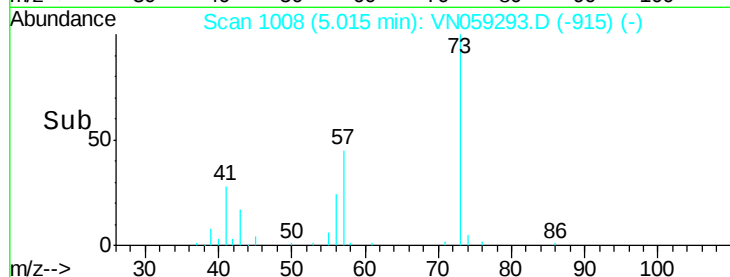
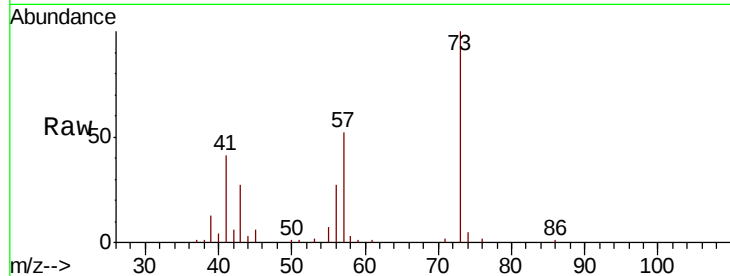




#19
Methvl tert-butvl Ether
Concen: 5.837 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN059293.D
Acq: 18 Nov 2019 18:40

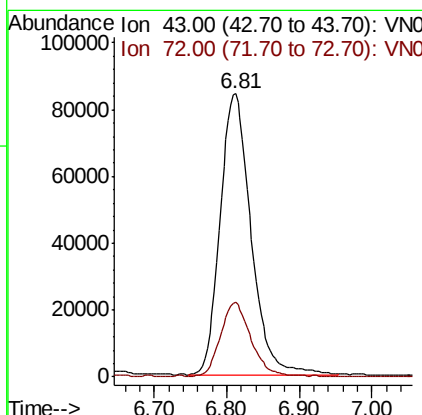
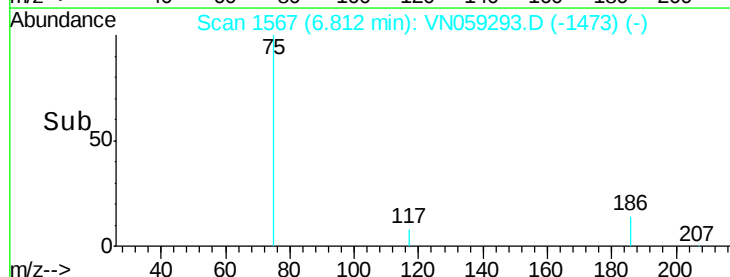
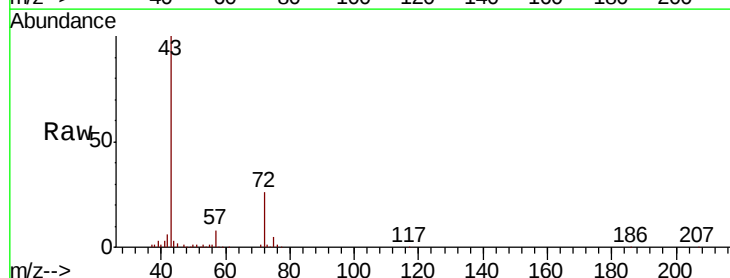
Instrument :
MSVOA_N
ClientSampled :
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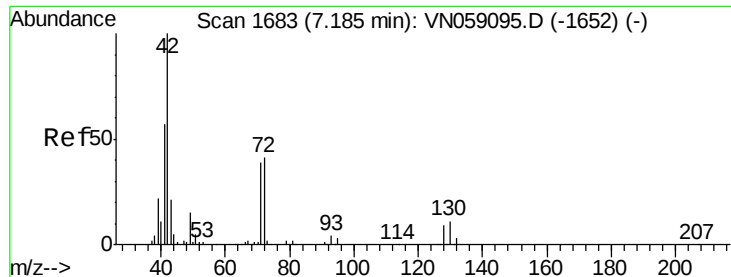
Tot Ion: 73 Resp: 82978
Ion Ratio Lower Upper
73 100
57 51.9 18.4 27.6#



#25
2-Butanone
Concen: 66.831 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VN059293.D
Acq: 18 Nov 2019 18:40

Tgt Ion: 43 Resp: 249238
Ion Ratio Lower Upper
43 100
72 26.2 20.3 30.5

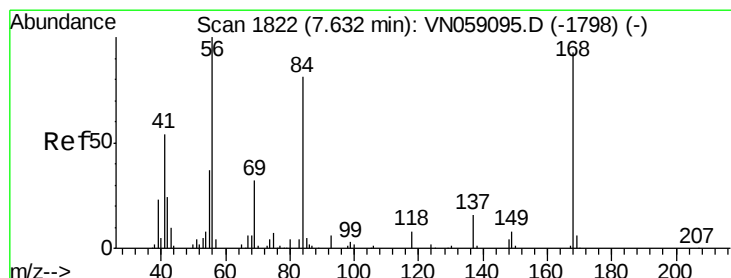
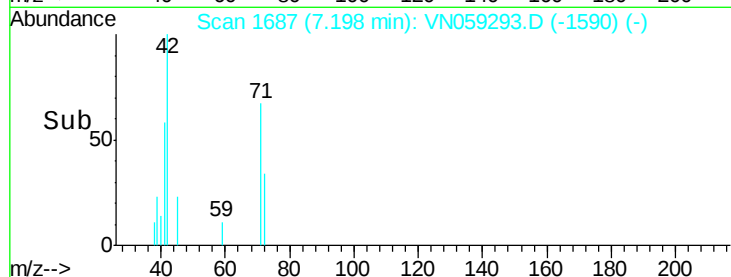
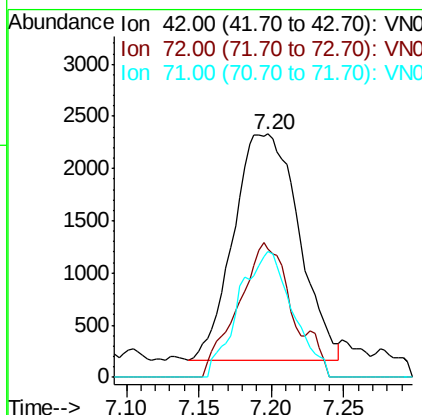
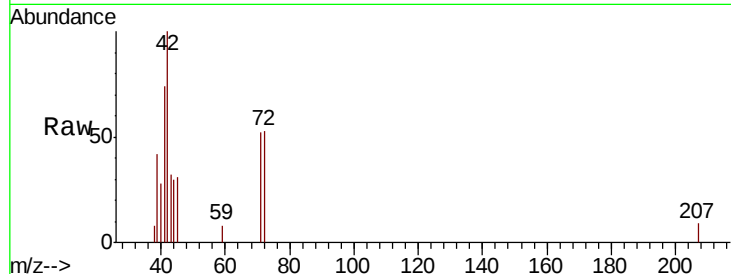




#29
Tetrahydrofuran
Concen: 2.839 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.01 min
Lab File: VN059293.D
Acq: 18 Nov 2019 18:40

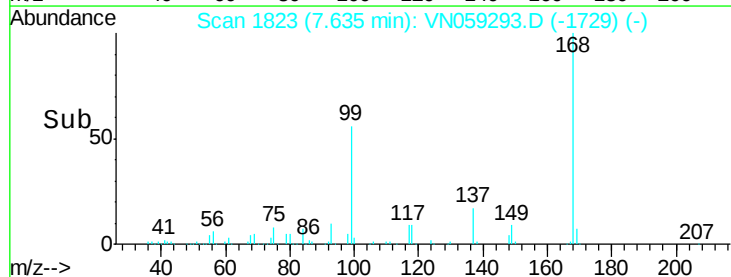
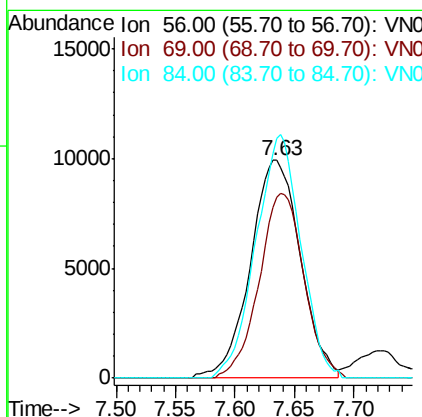
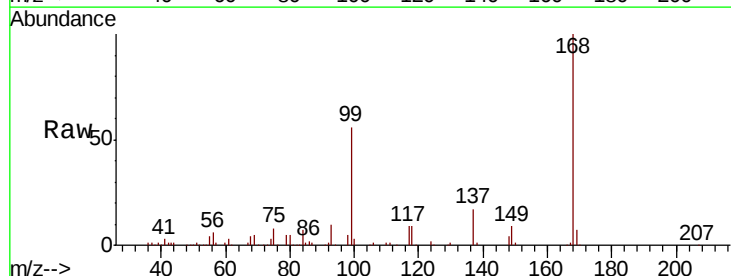
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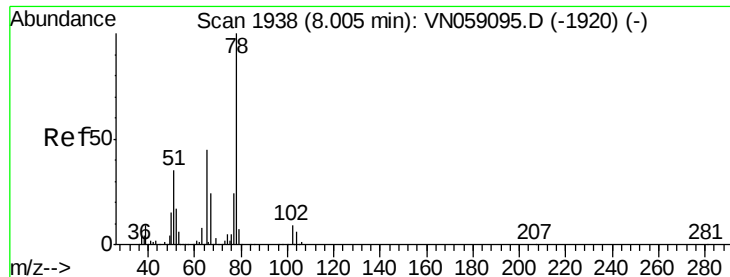
Tot Ion: 42 Resp: 6728
Ion Ratio Lower Upper
42 100
72 50.3 33.1 49.7#
71 46.3 30.9 46.3#



#31
Cyclohexane
Concen: 3.410 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN059293.D
Acq: 18 Nov 2019 18:40

Tgt Ion: 56 Resp: 28887
Ion Ratio Lower Upper
56 100
69 83.1 25.8 38.8#
84 109.8 65.0 97.4#





#33

1,2-Dichloroethane-d4

Concen: 45.828 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059293.D

Acq: 18 Nov 2019 18:40

Instrument :

MSVOA_N

ClientSampleId :

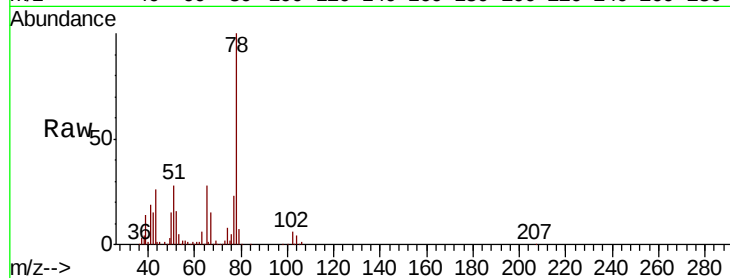
30725

Tot Ion: 65 Resp: 249371

Ion Ratio Lower Upper

65 100

67 55.3 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VN059293.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059293.D (-1845) (-)

8.00

120000

100000

80000

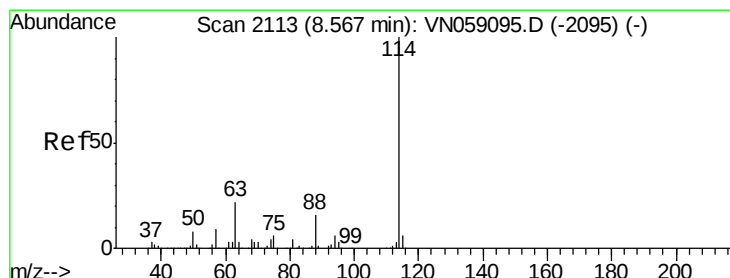
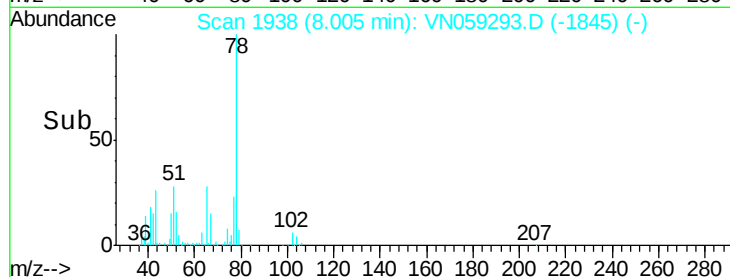
60000

40000

20000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN059293.D

Acq: 18 Nov 2019 18:40

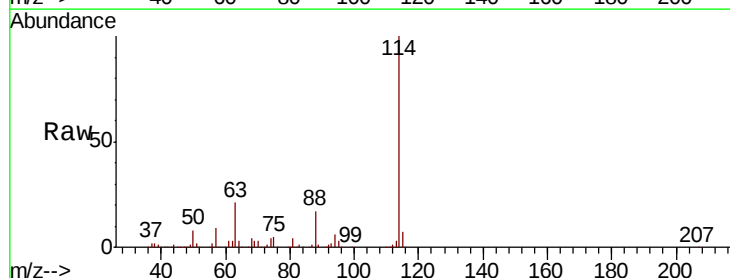
Tgt Ion: 114 Resp: 678418

Ion Ratio Lower Upper

114 100

63 20.7 0.0 43.4

88 16.5 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): VN059293.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN059293.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN059293.D (-2020) (-)

8.57

400000

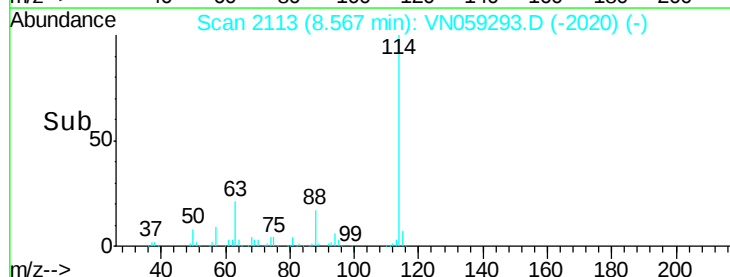
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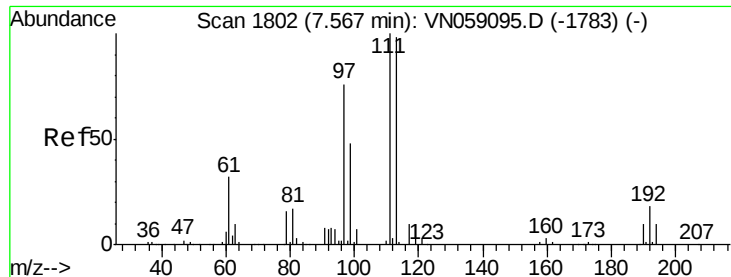
200000

100000

0

Time--> 8.45 8.50 8.55 8.60 8.65

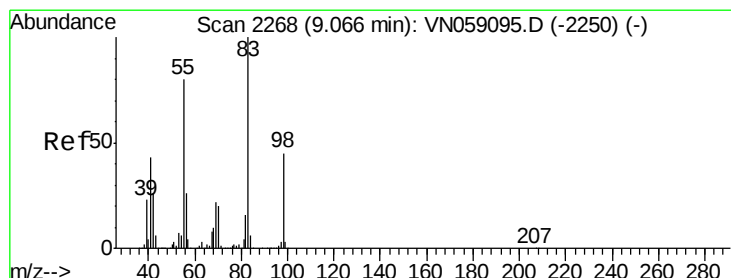
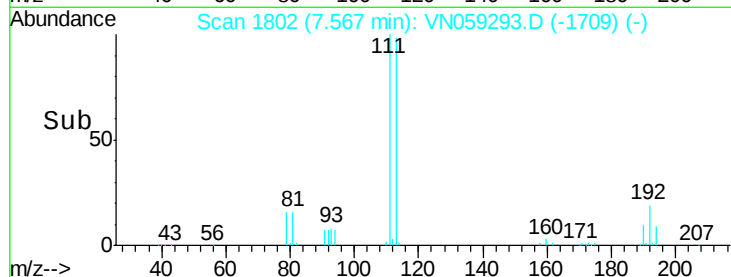
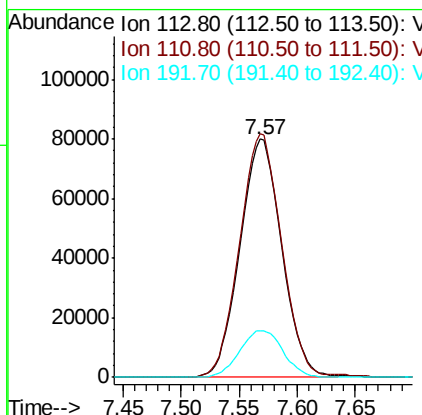
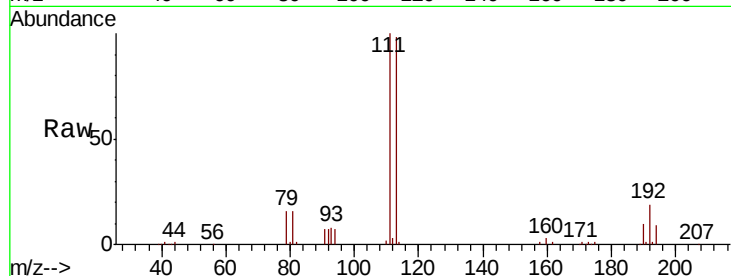




#35
Dibromofluoromethane
Concen: 49.394 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN059293.D
Acq: 18 Nov 2019 18:40

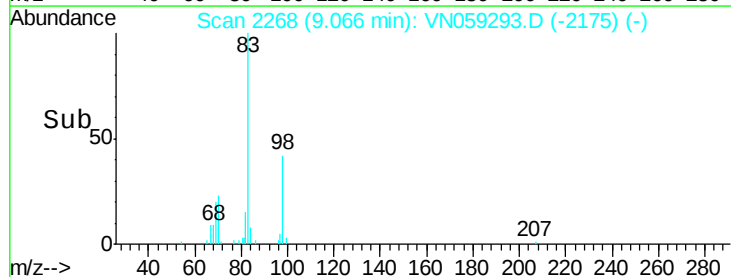
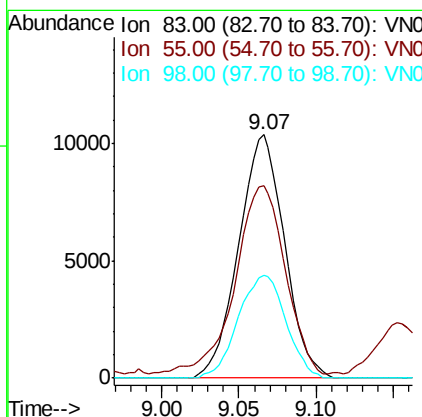
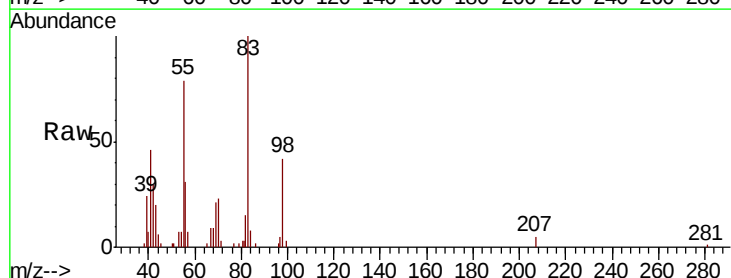
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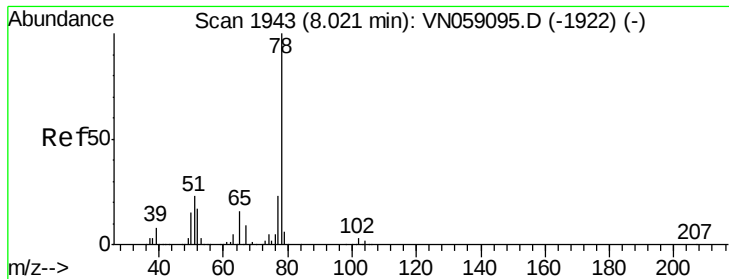
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.8	124.2
192	20.4	16.1	24.1



#39
Methylcyclohexane
Concen: 2.904 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. 0.00 min
Lab File: VN059293.D
Acq: 18 Nov 2019 18:40

Tgt Ion	Ratio	Lower	Upper
83	100		
55	76.9	63.9	95.9
98	42.5	35.6	53.4





#40

Benzene

Concen: 80.529 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN059293.D

Acq: 18 Nov 2019 18:40

Instrument :

MSVOA_N

ClientSampleId :

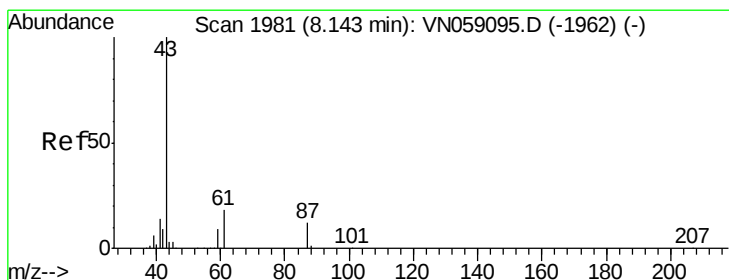
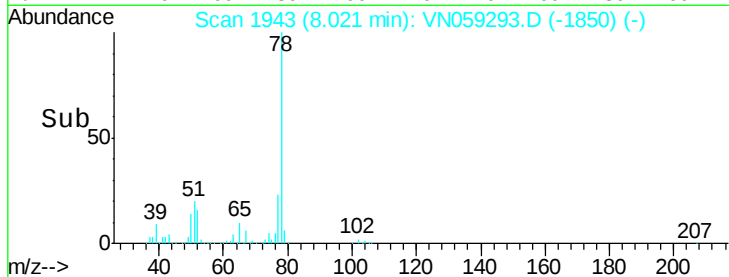
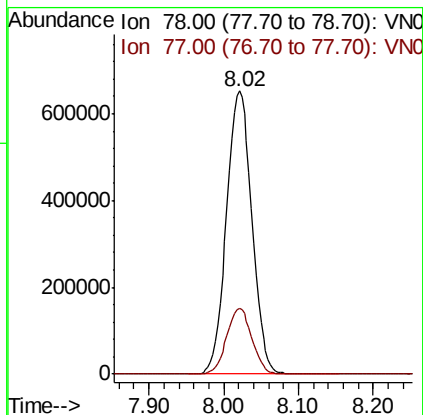
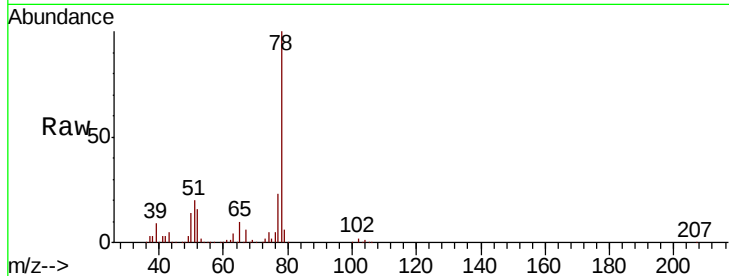
30725

Tot Ion: 78 Resp: 1537752

Ion Ratio Lower Upper

78 100

77 23.4 18.8 28.2



#43

Isopropyl Acetate

Concen: 2.255 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059293.D

Acq: 18 Nov 2019 18:40

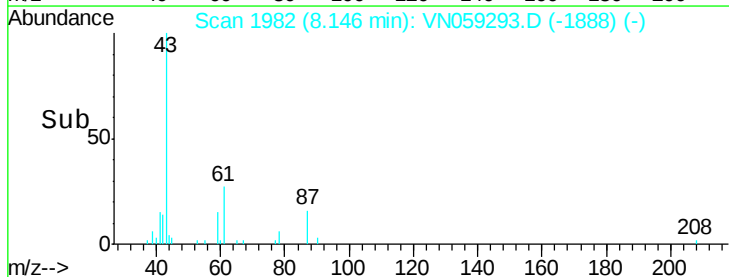
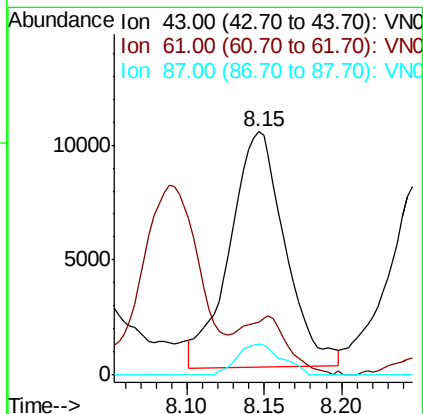
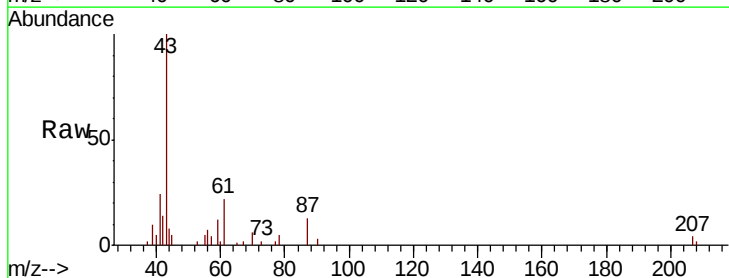
Tgt Ion: 43 Resp: 25357

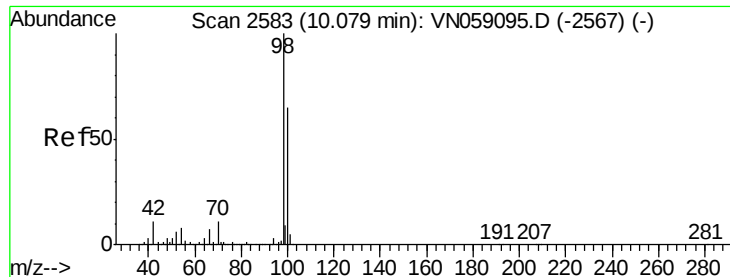
Ion Ratio Lower Upper

43 100

61 0.0 21.0 31.6#

87 10.6 9.8 14.6





#50

Toluene-d8

Concen: 52.111 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059293.D

Acq: 18 Nov 2019 18:40

Instrument :

MSVOA_N

ClientSampled :

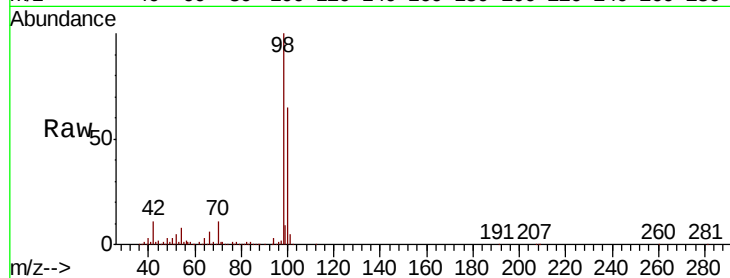
30725

Tot Ion: 98 Resp: 831481

Ion Ratio Lower Upper

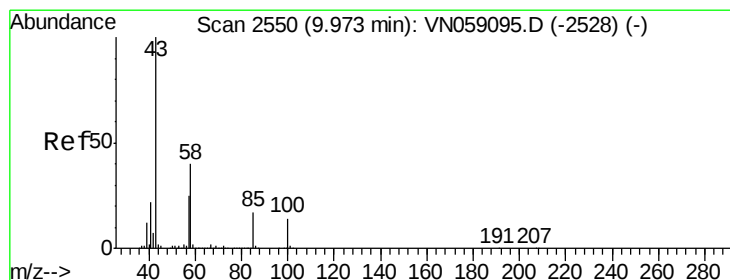
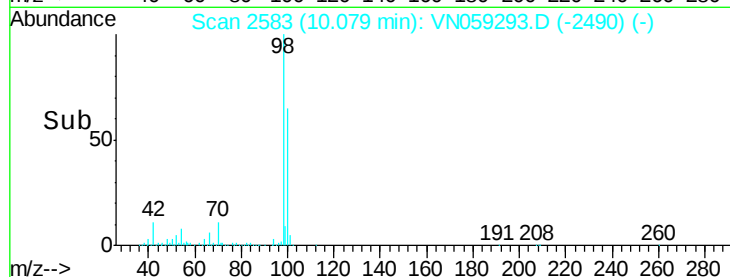
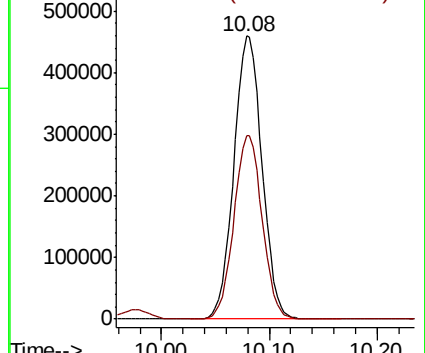
98 100

100 65.0 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 30.163 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059293.D

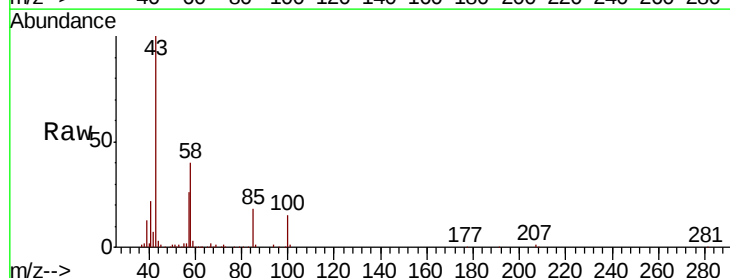
Acq: 18 Nov 2019 18:40

Tgt Ion: 43 Resp: 191947

Ion Ratio Lower Upper

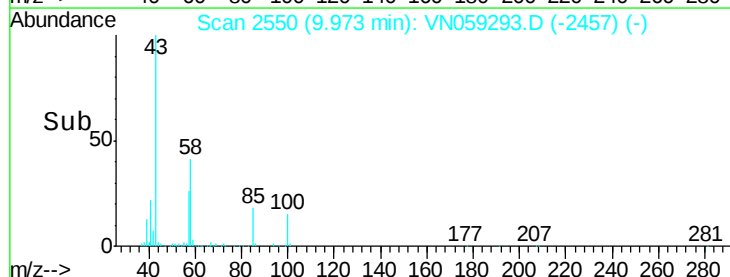
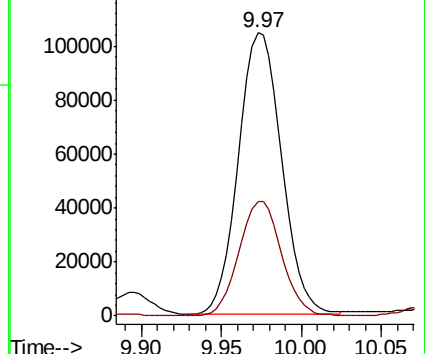
43 100

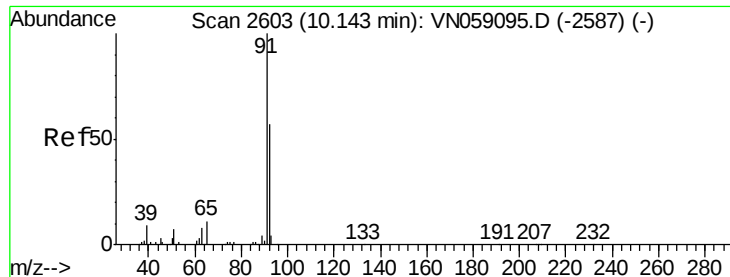
58 40.4 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#52

Toluene

Concen: 406.831 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059293.D

Acq: 18 Nov 2019 18:40

Instrument :

MSVOA_N

ClientSampleId :

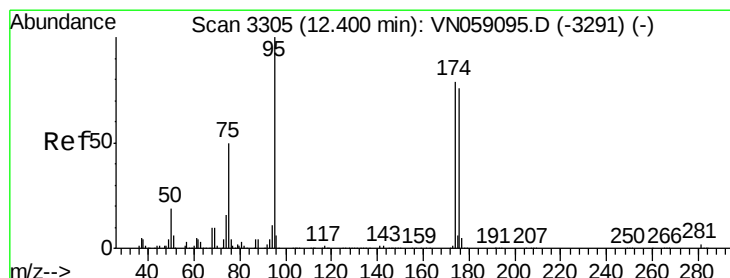
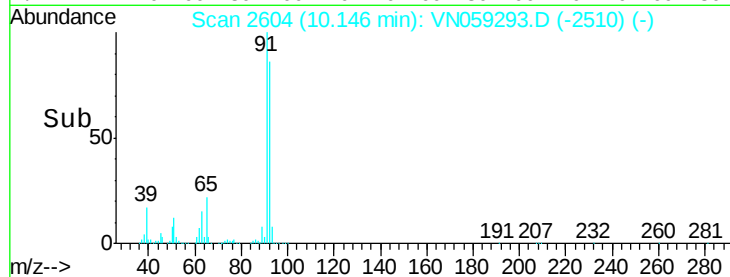
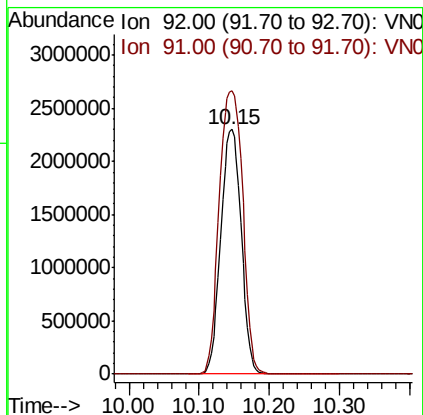
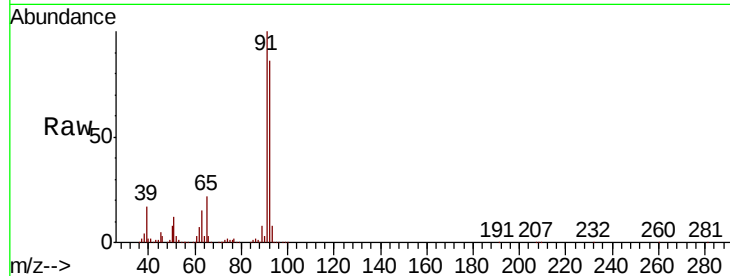
30725

Tot Ion: 92 Resp: 4656333

Ion Ratio Lower Upper

92 100

91 133.4 139.5 209.3#



#62

4-Bromofluorobenzene

Concen: 50.991 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN059293.D

Acq: 18 Nov 2019 18:40

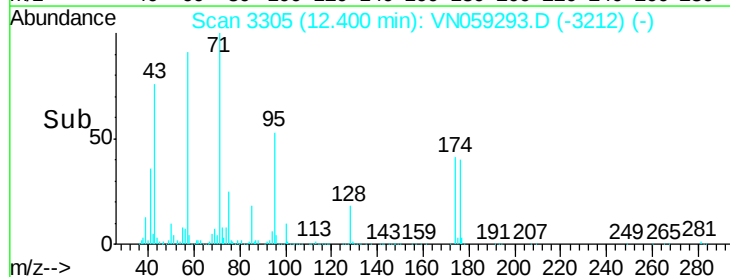
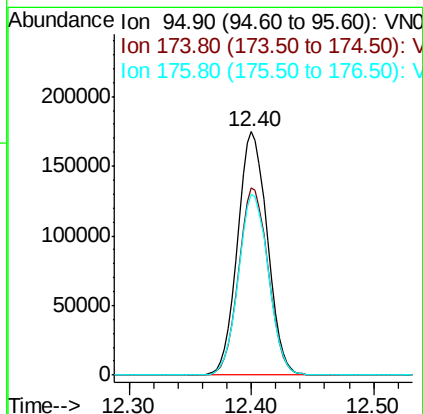
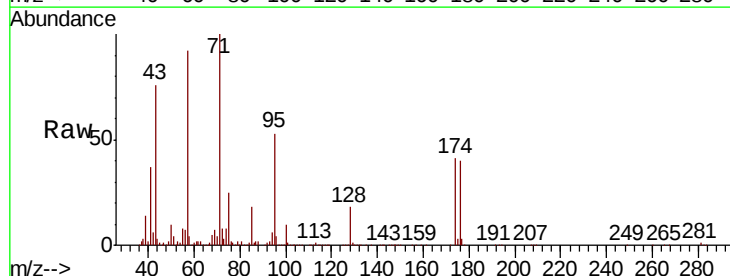
Tgt Ion: 95 Resp: 293356

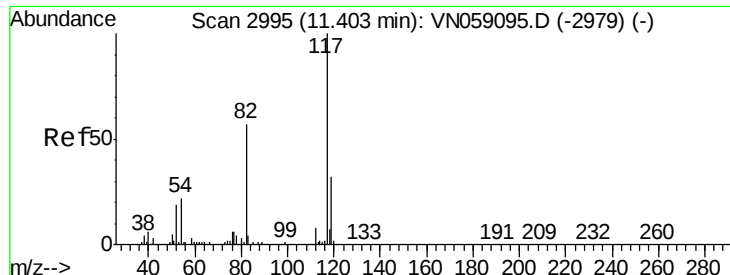
Ion Ratio Lower Upper

95 100

174 76.7 0.0 158.2

176 75.0 0.0 151.8

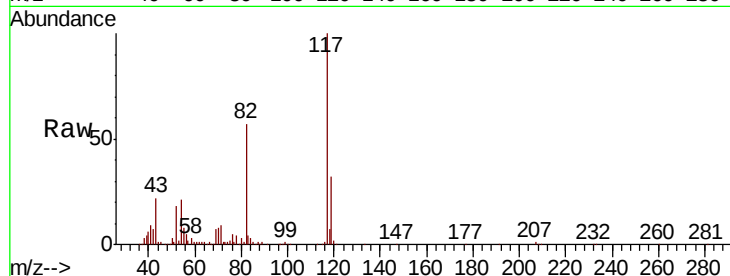




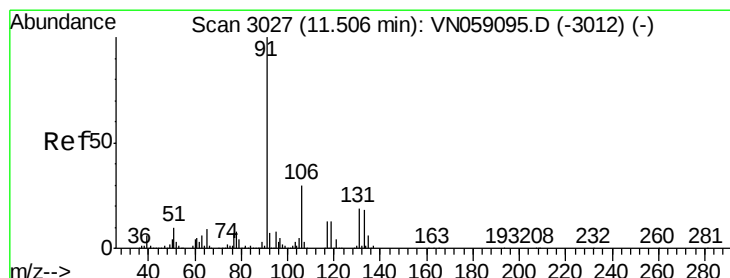
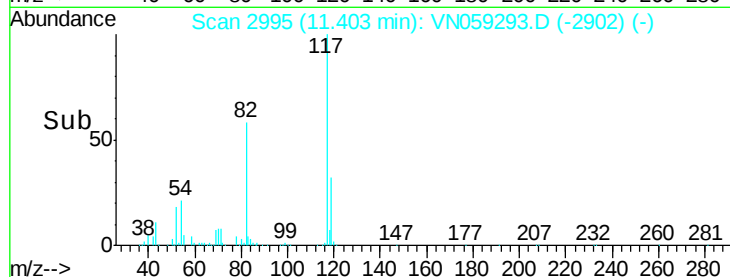
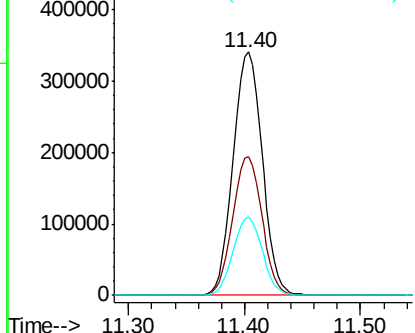
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN059293.D
Acq: 18 Nov 2019 18:40

Instrument :
MSVOA_N
ClientSampled :
30725

Tot Ion:117 Resp: 594078
Ion Ratio Lower Upper
117 100
82 56.9 45.8 68.8
119 32.0 25.8 38.6

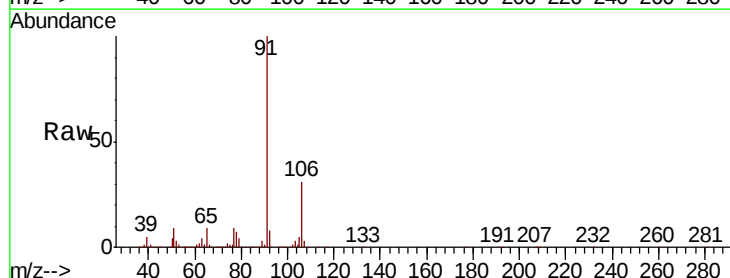


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

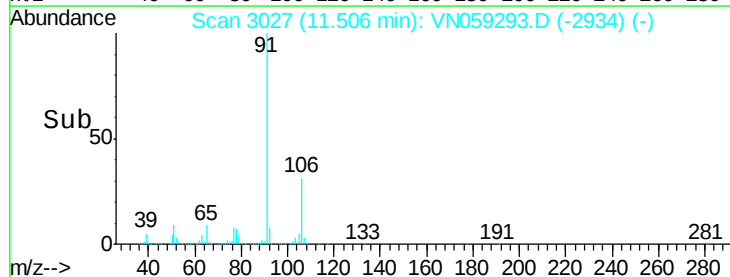
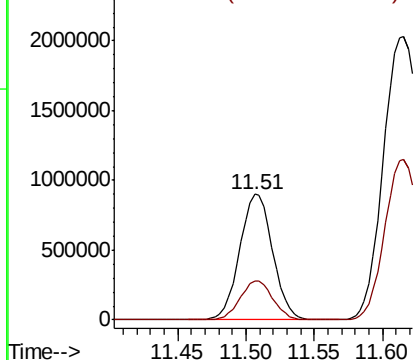


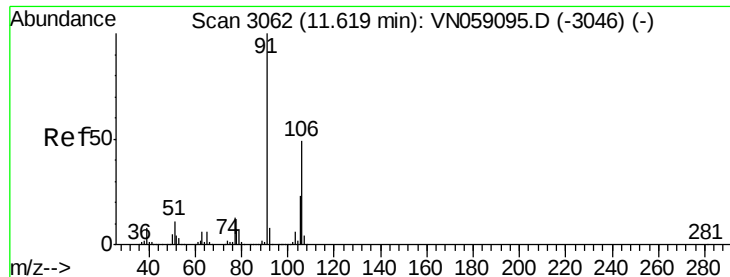
#67
Ethyl Benzene
Concen: 73.531 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN059293.D
Acq: 18 Nov 2019 18:40

Tgt Ion: 91 Resp: 1510849
Ion Ratio Lower Upper
91 100
106 31.1 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 277.291 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN059293.D

Acq: 18 Nov 2019 18:40

Instrument :

MSVOA_N

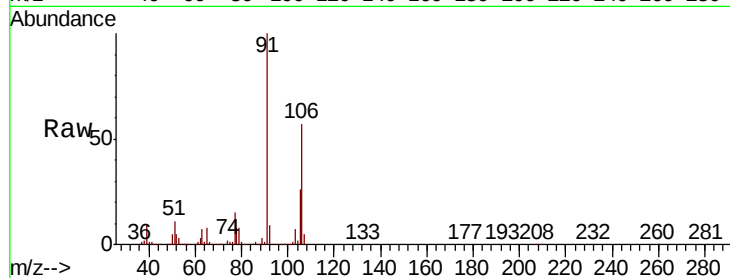
ClientSampleId :
30725

Tot Ion:106 Resp: 2134226

Ion Ratio Lower Upper

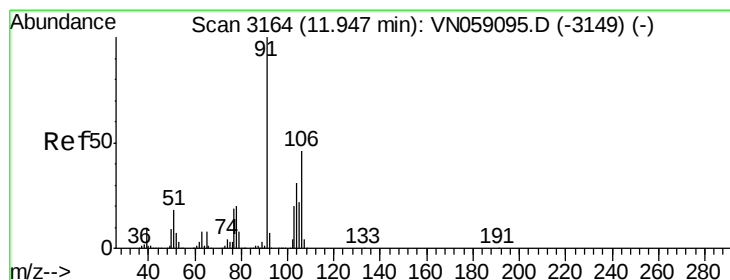
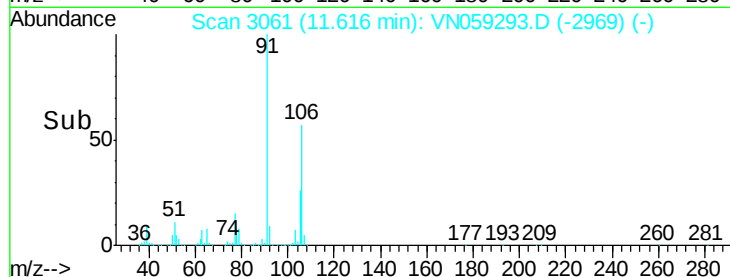
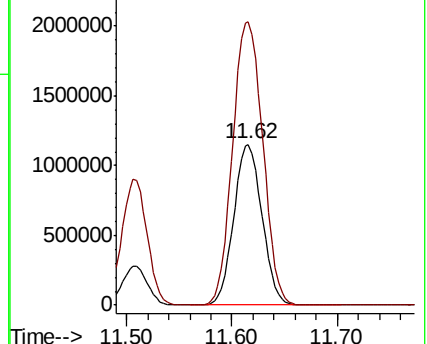
106 100

91 188.1 164.7 247.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#69

o-Xylene

Concen: 109.966 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN059293.D

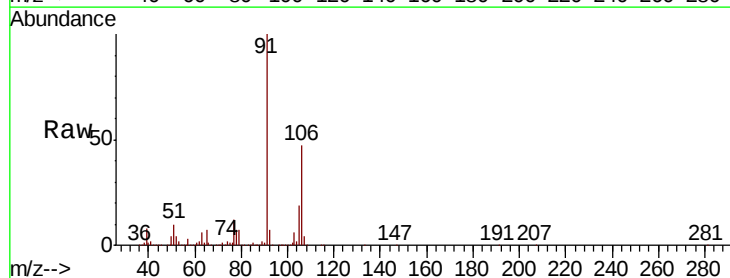
Acq: 18 Nov 2019 18:40

Tgt Ion:106 Resp: 817937

Ion Ratio Lower Upper

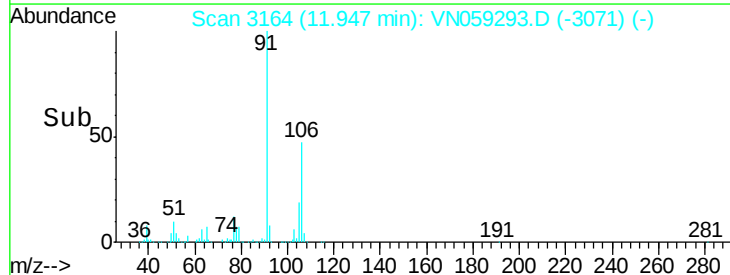
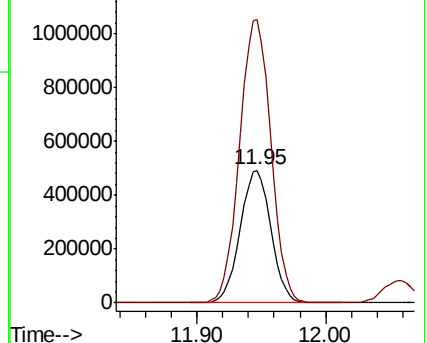
106 100

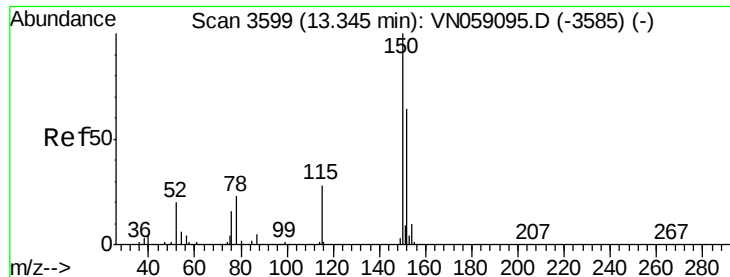
91 217.4 110.1 330.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN059293.D

Acq: 18 Nov 2019 18:40

Instrument :

MSVOA_N

ClientSampleId :

30725

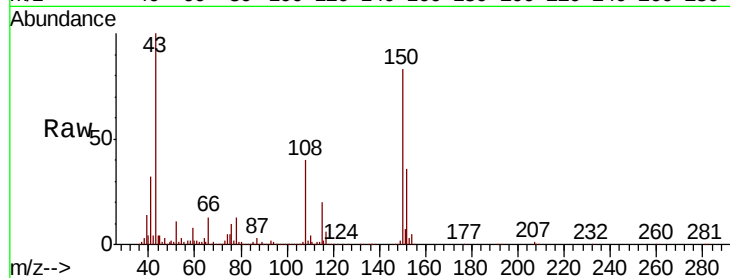
Tot Ion:152 Resp: 325597

Ion Ratio Lower Upper

152 100

115 48.9 29.4 88.2

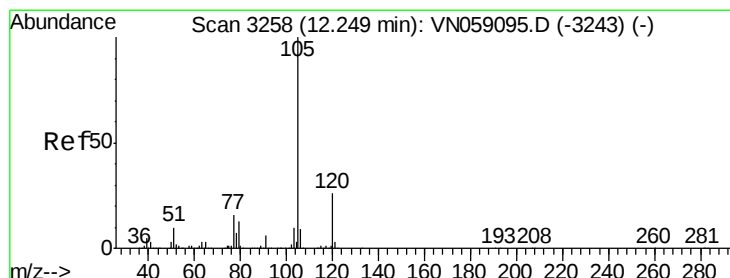
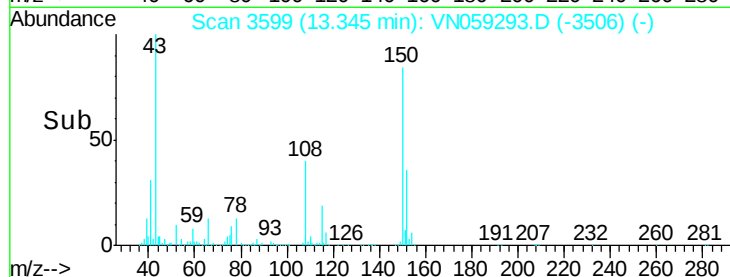
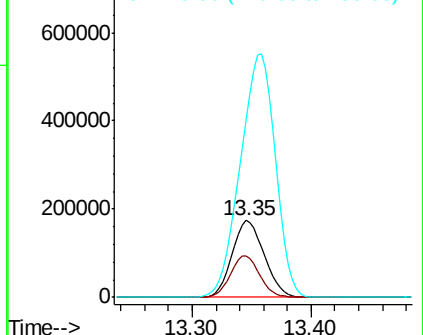
150 345.9 0.0 345.8#



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: 1.431 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN059293.D

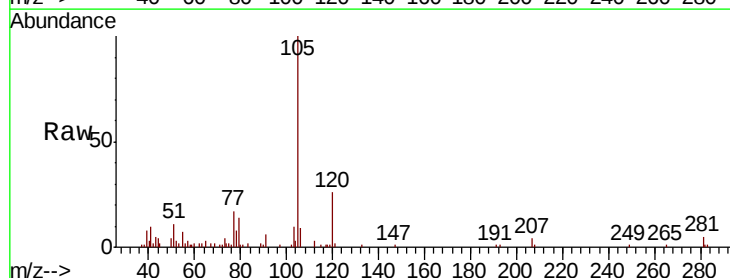
Acq: 18 Nov 2019 18:40

Tgt Ion:105 Resp: 33902

Ion Ratio Lower Upper

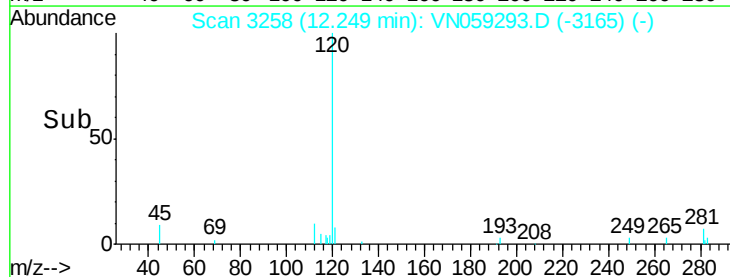
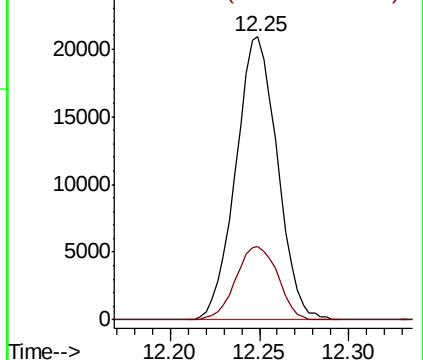
105 100

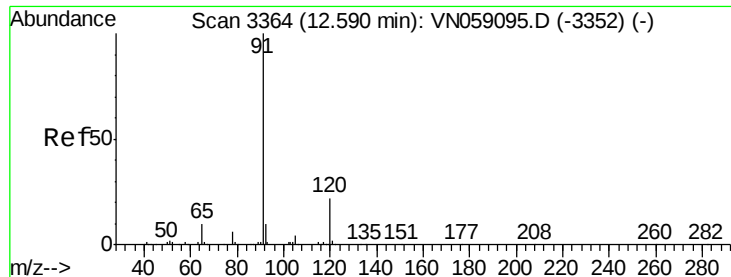
120 26.2 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 1.492 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN059293.D

Acq: 18 Nov 2019 18:40

Instrument :

MSVOA_N

ClientSampled :

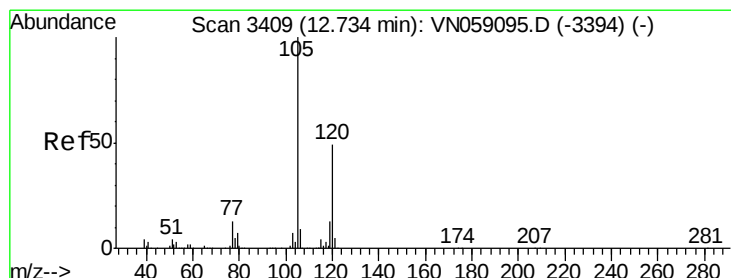
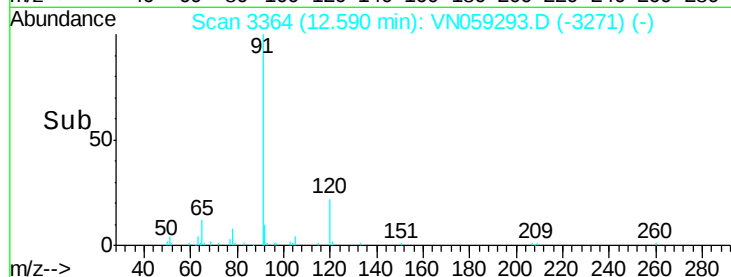
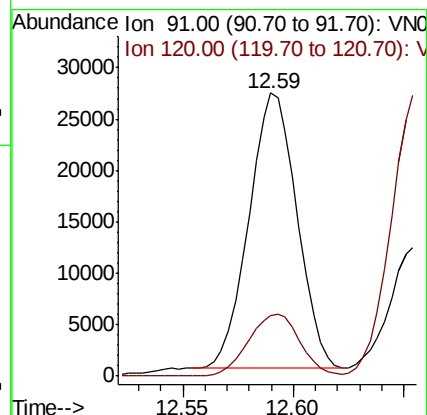
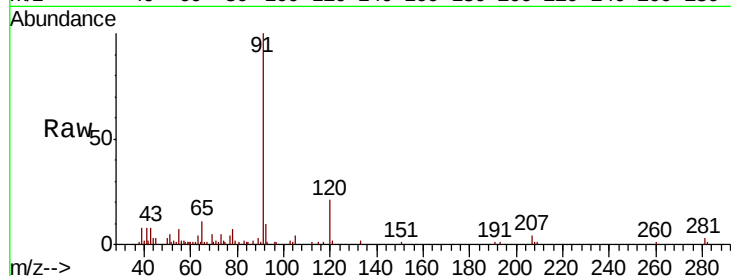
30725

Tot Ion: 91 Resp: 40466

Ion Ratio Lower Upper

91 100

120 24.3 11.2 33.5



#80

1,3,5-Trimethylbenzene

Concen: 2.887 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN059293.D

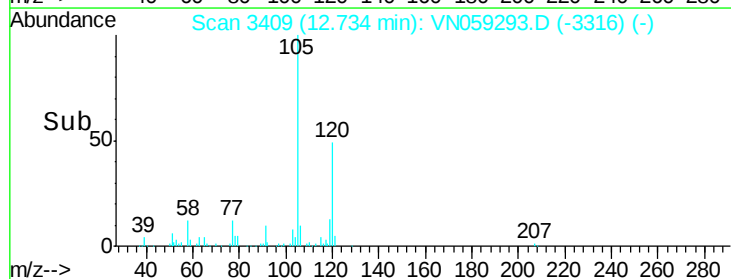
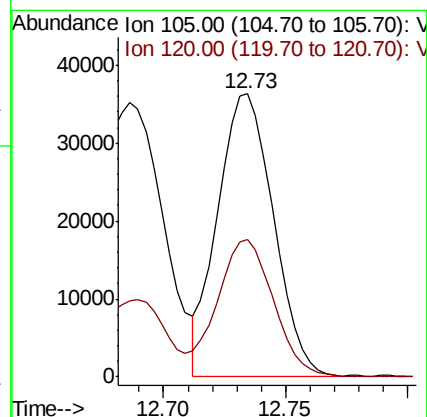
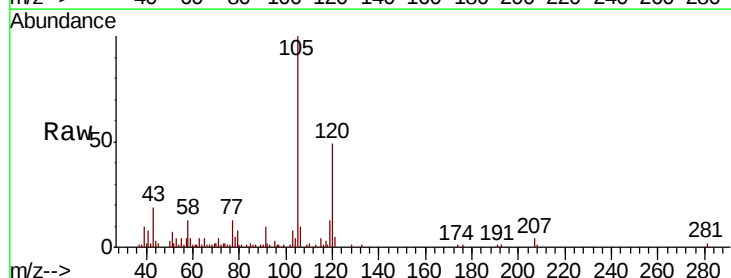
Acq: 18 Nov 2019 18:40

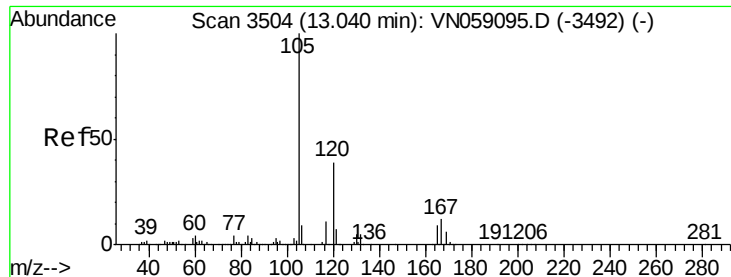
Tgt Ion: 105 Resp: 57946

Ion Ratio Lower Upper

105 100

120 48.9 24.0 72.0





#84

1,2,4-Trimethylbenzene

Concen: 8.467 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN059293.D

Acq: 18 Nov 2019 18:40

Instrument :

MSVOA_N

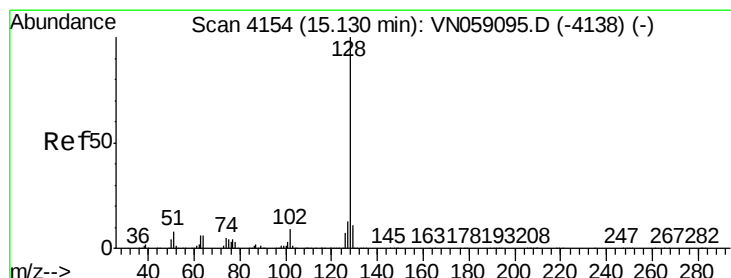
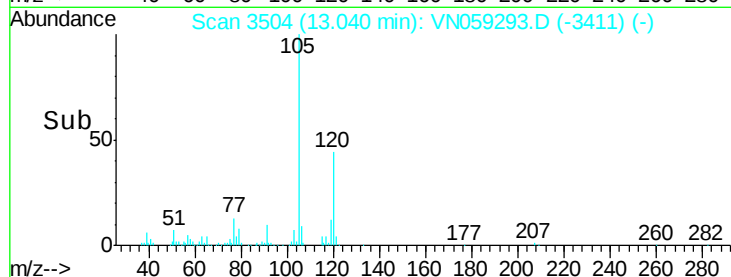
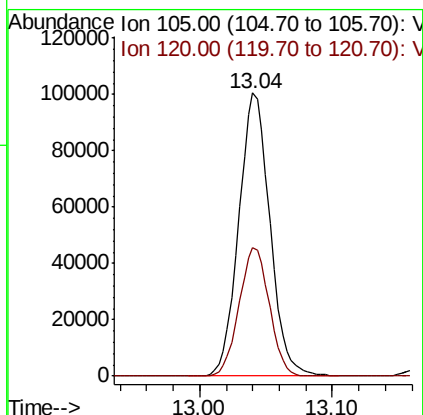
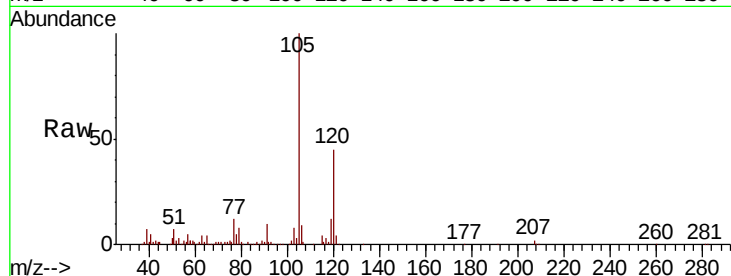
ClientSampleId :
30725

Tot Ion:105 Resp: 164399

Ion Ratio Lower Upper

105 100

120 44.0 22.8 68.4



#95

Naphthalene

Concen: 7.252 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059293.D

Acq: 18 Nov 2019 18:40

Tgt Ion:128 Resp: 75582

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.2

129 12.1 8.6 12.8

