

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111819\
 Data File : VN059287.D
 Acq On : 18 Nov 2019 16:28
 Operator : JC/SP
 Sample : K5900-04DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30696DL

Manual Integrations
 APPROVED

MMDADODA
 11/19/2019 11:03:36 AM

Quant Time: Nov 19 08:30:43 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	492983	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	772670	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	683344	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	339936	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	281961	46.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.06%	
35) Dibromofluoromethane	7.57	113	229387	49.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.44%	
50) Toluene-d8	10.08	98	945676	52.04	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.08%	
62) 4-Bromofluorobenzene	12.40	95	344233	52.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.08%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.39	74	26103	8.205	ug/l	97
11) Tert butyl alcohol	4.75	59	633124	548.202	ug/l #	88
16) Acetone	3.79	43	2577866	818.024	ug/l	96
18) Methyl Acetate	4.30	43	396704	53.035	ug/l	99
19) Methyl tert-butyl Ether	5.01	73	1504172	95.003	ug/l	100
25) 2-Butanone	6.81	43	800248	192.679	ug/l	99
29) Tetrahydrofuran	7.19	42	42811	16.223	ug/l #	85
40) Benzene	8.02	78	1507307	69.306	ug/l	99
51) 4-Methyl-2-Pentanone	9.97	43	168284	23.219	ug/l	97
52) Toluene	10.15	92	1427273	109.491	ug/l	96
67) Ethyl Benzene	11.51	91	1426761	60.368	ug/l	100
68) m/p-Xylenes	11.62	106	2958665	334.191	ug/l	79
69) o-Xylene	11.95	106	1497380	175.014	ug/l	91
73) Isopropylbenzene	12.25	105	48615	1.966	ug/l	99
78) n-propylbenzene	12.59	91	39385	1.391	ug/l	94
80) 1,3,5-Trimethylbenzene	12.73	105	321449	15.342	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1158312	57.140	ug/l	99
85) sec-Butylbenzene	13.17	105	32835m	1.395	ug/l	
86) p-Isopropyltoluene	13.29	119	35992	1.732	ug/l #	77
89) n-Butylbenzene	13.62	91	26508m	1.458	ug/l	
95) Naphthalene	15.13	128	117342	9.301	ug/l	98

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

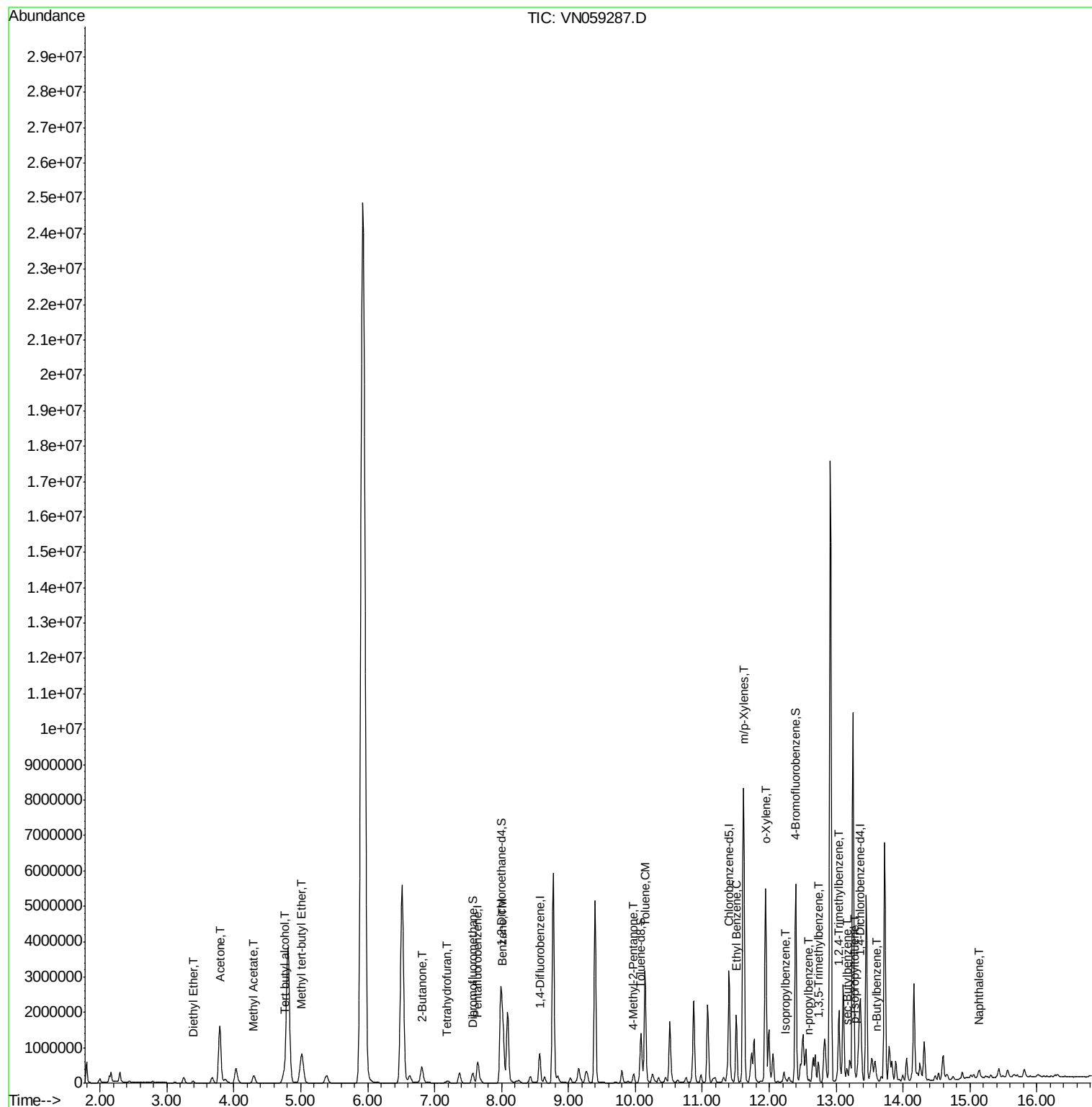
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN111819\
Data File : VN059287.D
Acq On : 18 Nov 2019 16:28
Operator : JC/SP
Sample : K5900-04DL 5X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 16 Sample Multiplier: 1

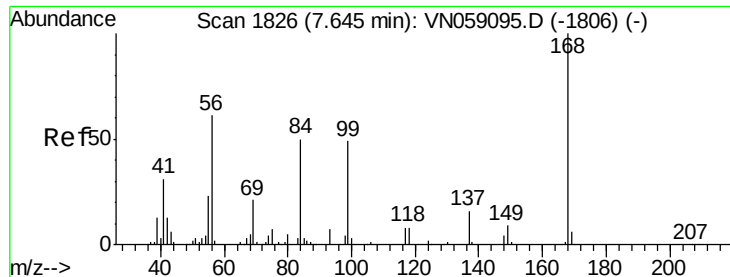
Instrument :
MSVOA_N
ClientSampleId :
30696DL

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11/19/2019 11:03:36 AM

Quant Time: Nov 19 08:30:43 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 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: VN059287.D

Acq: 18 Nov 2019 16:28

Instrument :

MSVOA_N

ClientSampleID :

30696DL

Tot Ion:168 Resp: 492983

Ion Ratio Lower Upper

168 100

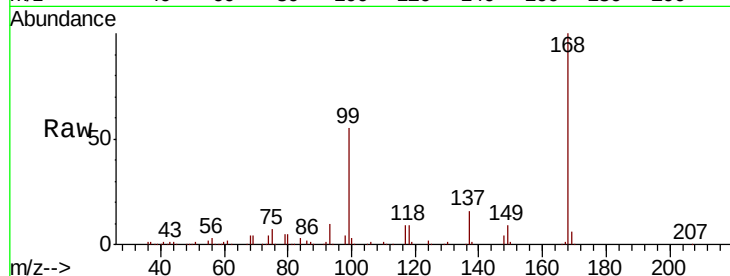
99 55.3 45.7 68.5

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

200000

150000

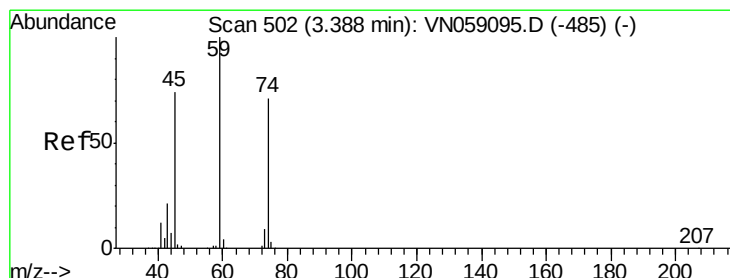
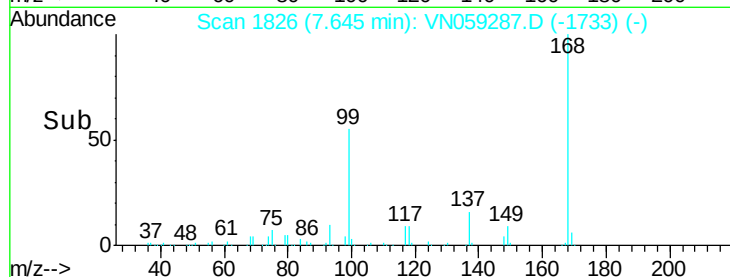
100000

50000

0

7.60 7.70

Time-->



#8

Diethyl Ether

Concen: 8.205 ug/l

RT: 3.39 min Scan# 502

Delta R.T. 0.00 min

Lab File: VN059287.D

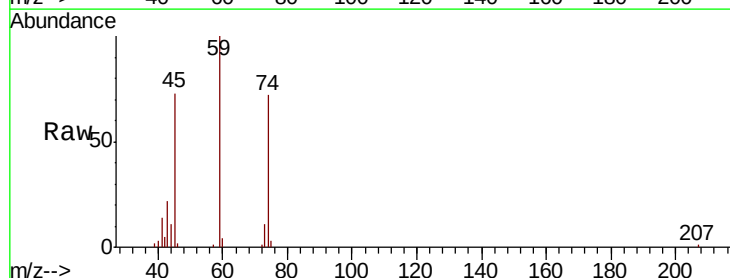
Acq: 18 Nov 2019 16:28

Tgt Ion: 74 Resp: 26103

Ion Ratio Lower Upper

74 100

45 106.8 51.6 154.9



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.39

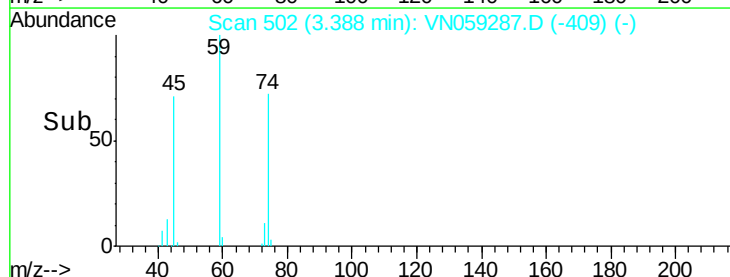
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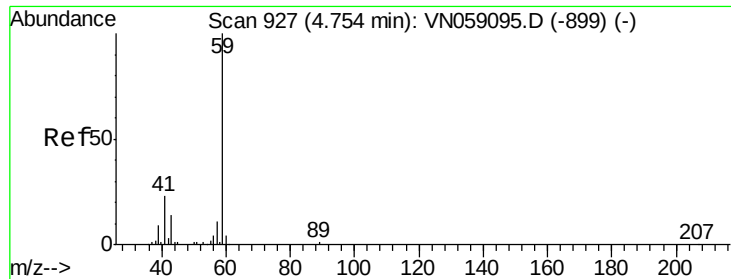
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0

3.30 3.35 3.40 3.45

Time-->





#11

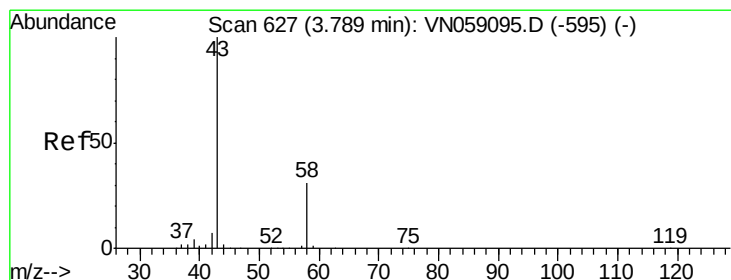
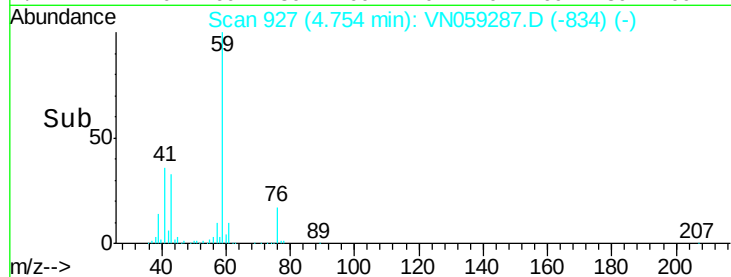
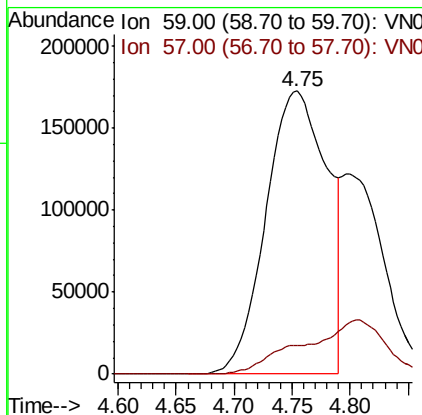
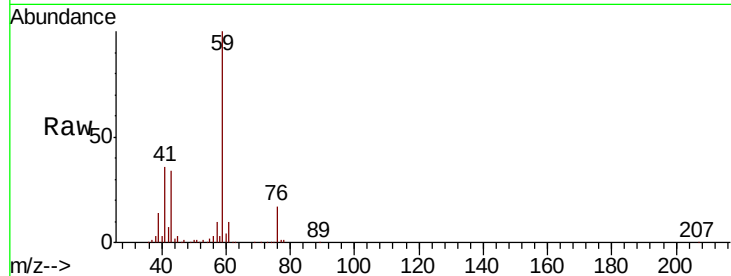
Tert butyl alcohol
Concen: 548.202 ug/l
RT: 4.75 min Scan# 927
Delta R.T. 0.00 min
Lab File: VN059287.D
Acq: 18 Nov 2019 16:28

Instrument :
MSVOA_N
ClientSampleId :
30696DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	5.9	8.3	12.5#

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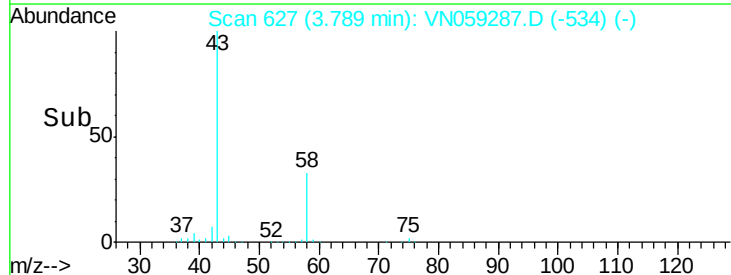
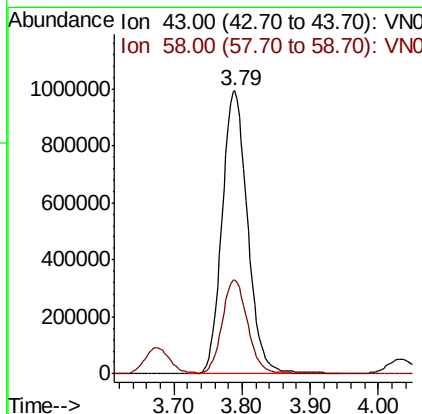
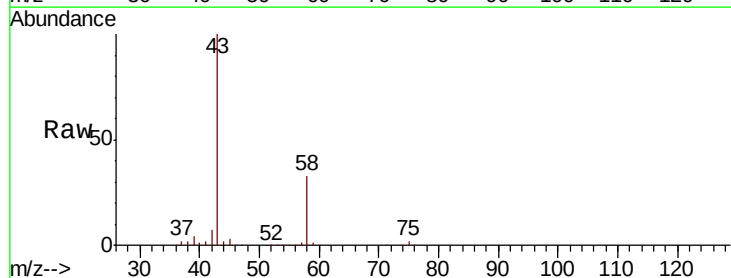
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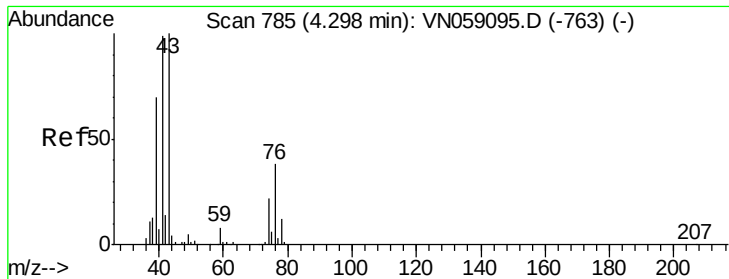


#16

Acetone
Concen: 818.024 ug/l
RT: 3.79 min Scan# 627
Delta R.T. 0.00 min
Lab File: VN059287.D
Acq: 18 Nov 2019 16:28

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.1	24.9	37.3





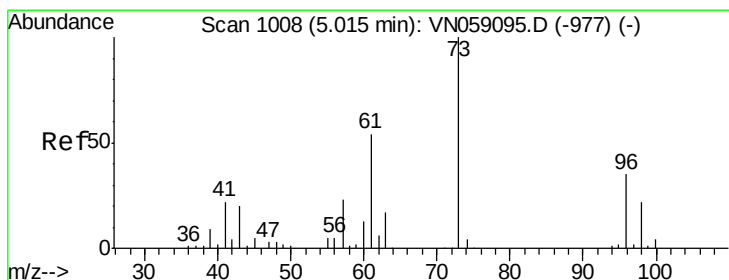
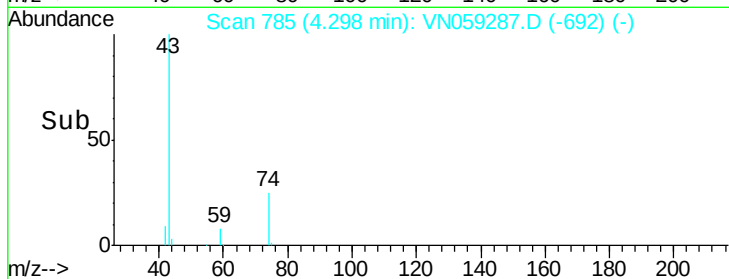
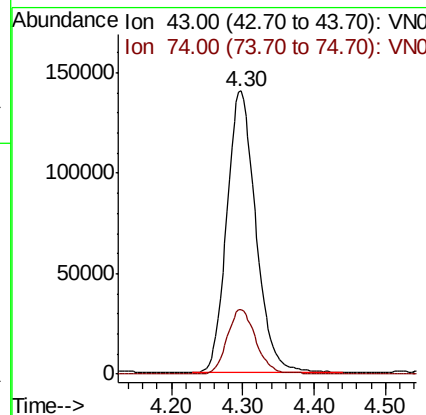
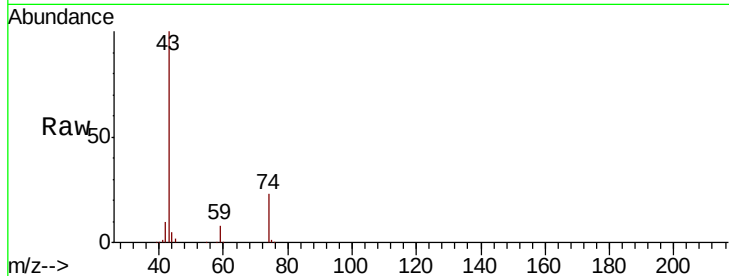
#18
Methyl Acetate
Concen: 53.035 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN059287.D
Acq: 18 Nov 2019 16:28

Instrument :
MSVOA_N
ClientSampleId :
30696DL

Tot Ion: 43 Resp: 396704
Ion Ratio Lower Upper
43 100
74 22.9 17.8 26.8

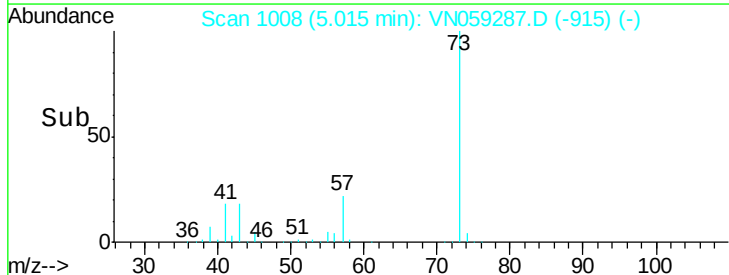
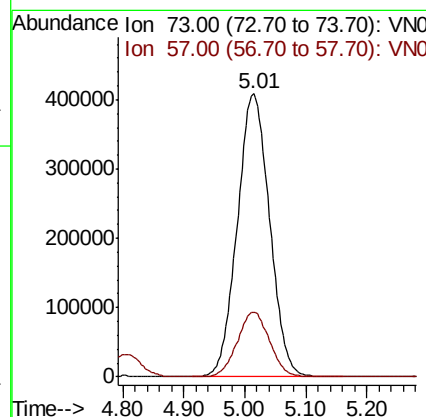
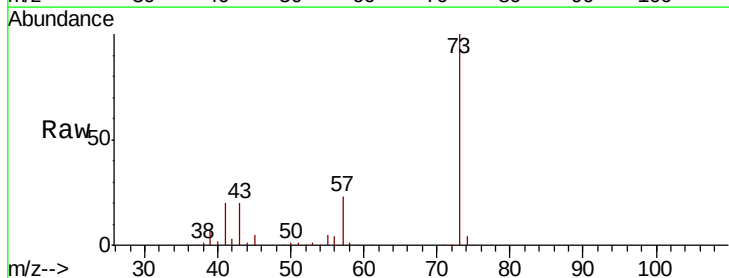
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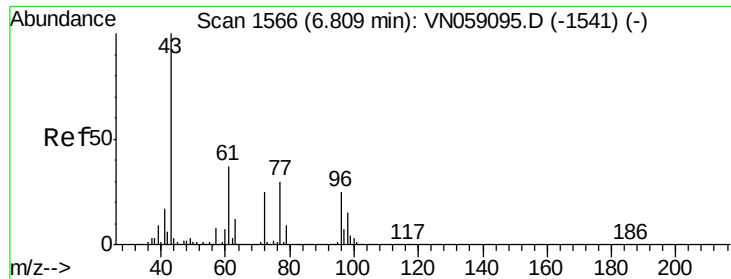
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11/19/2019 11:03:36 AM



#19
Methyl tert-butyl Ether
Concen: 95.003 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN059287.D
Acq: 18 Nov 2019 16:28

Tgt Ion: 73 Resp: 1504172
Ion Ratio Lower Upper
73 100
57 23.0 18.4 27.6





#25

2-Butanone

Concen: 192.679 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN059287.D

Acq: 18 Nov 2019 16:28

Instrument :

MSVOA_N

ClientSampleId :

30696DL

Tot Ion: 43 Resp: 800248

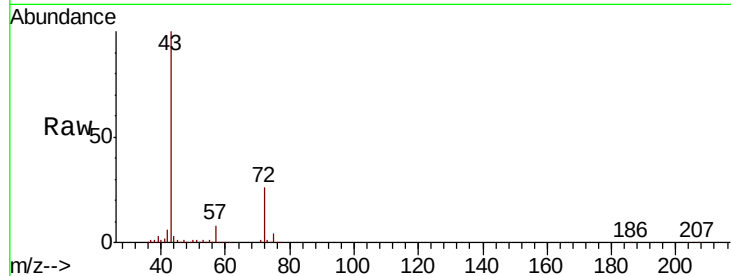
Ion Ratio Lower Upper

43 100

72 26.0 20.3 30.5

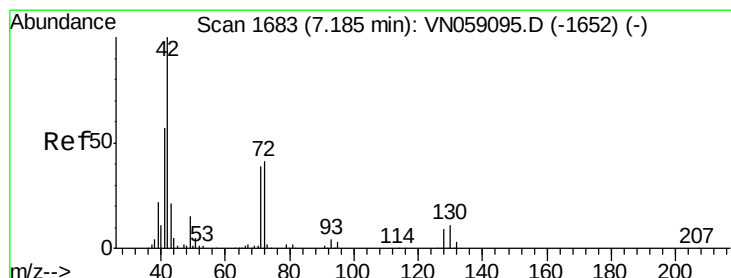
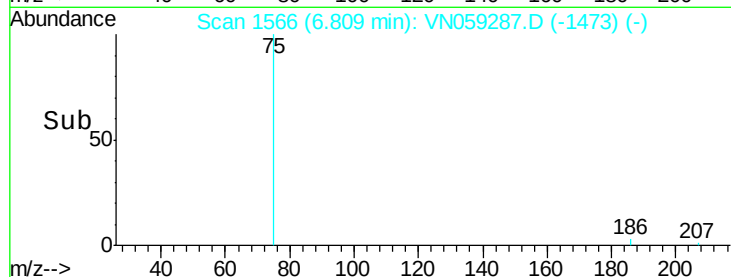
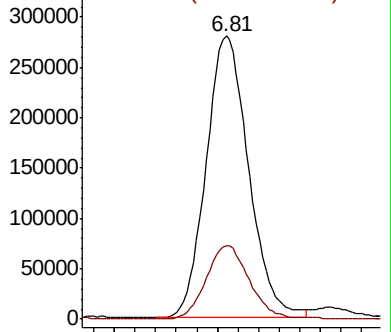
Manual Integrations
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11/19/2019 11:03:36 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 16.223 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. 0.01 min

Lab File: VN059287.D

Acq: 18 Nov 2019 16:28

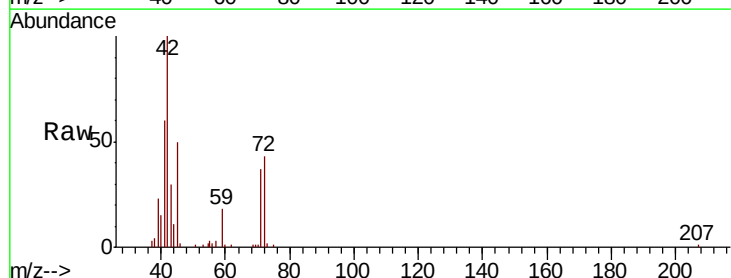
Tgt Ion: 42 Resp: 42811

Ion Ratio Lower Upper

42 100

72 42.0 33.1 49.7

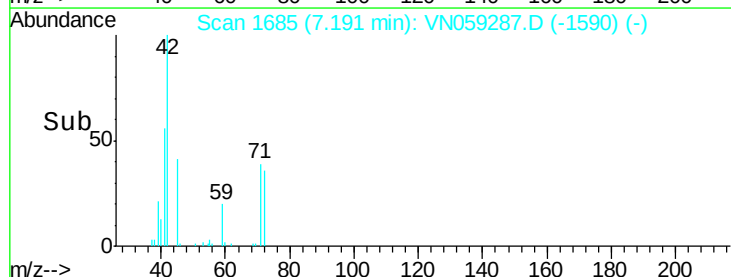
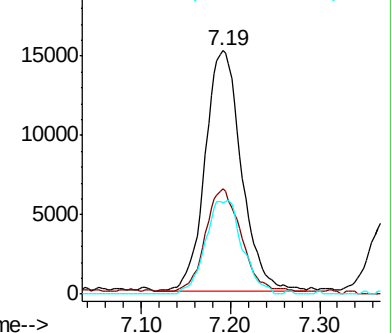
71 19.9 30.9 46.3#

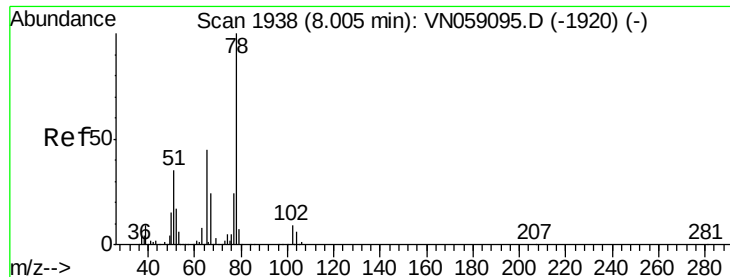


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





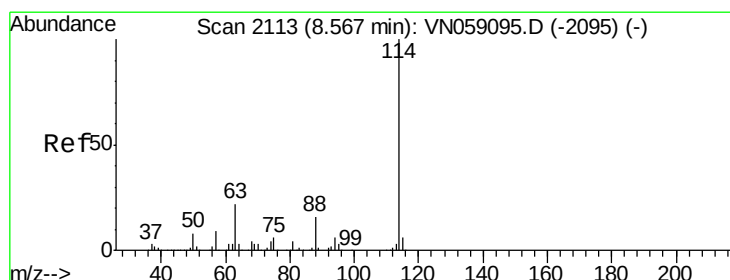
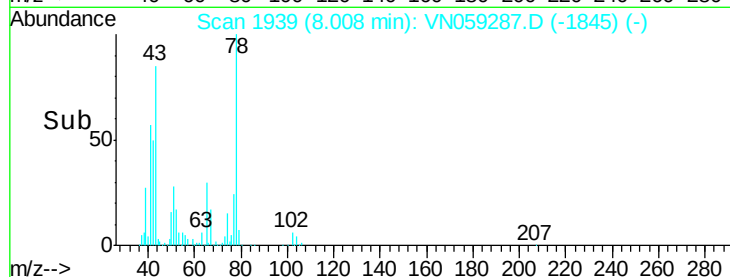
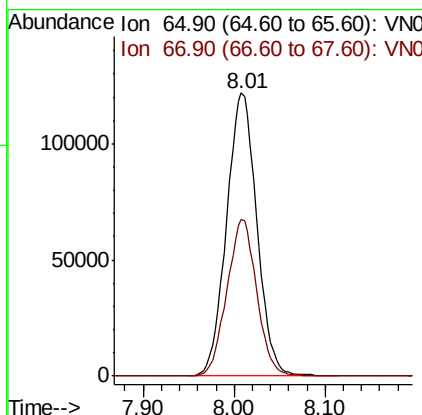
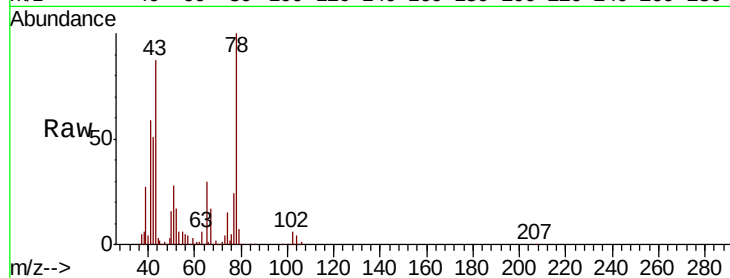
#33
 1,2-Dichloroethane-d4
 Concen: 46.528 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059287.D
 Acq: 18 Nov 2019 16:28

Instrument :
 MSVOA_N
 ClientSampleID :
 30696DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100	281961		
67	54.5	0.0	107.4	

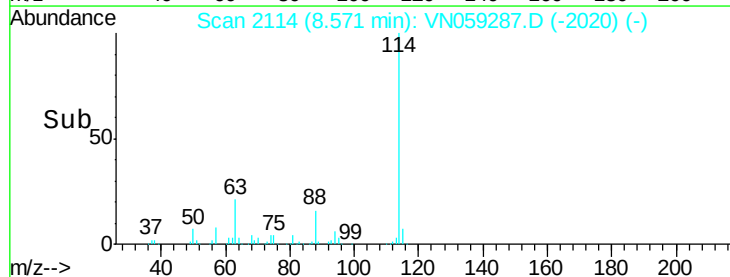
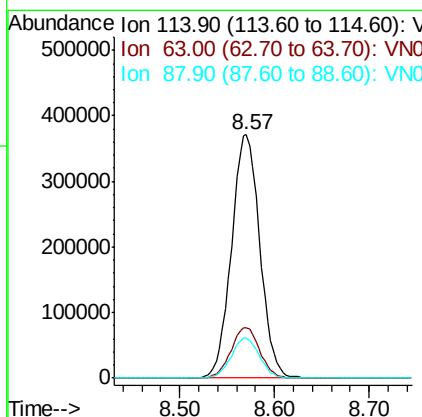
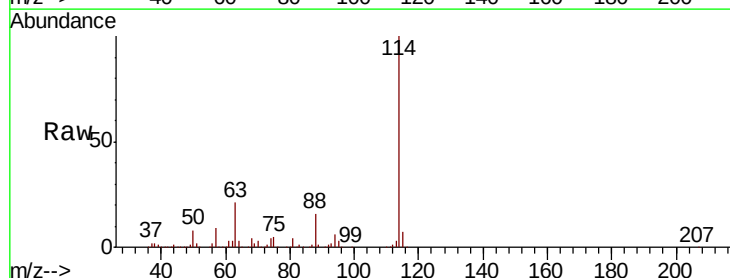
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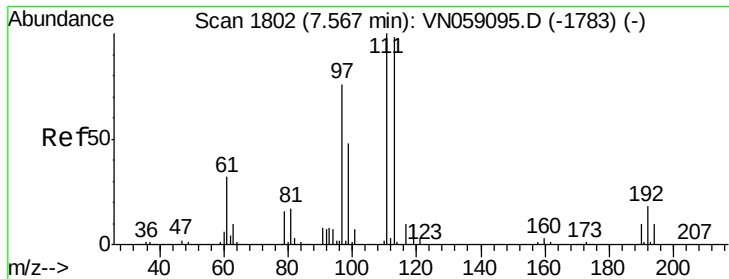
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059287.D
 Acq: 18 Nov 2019 16:28

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	772670		
63	20.8	0.0	43.4	
88	16.2	0.0	32.2	





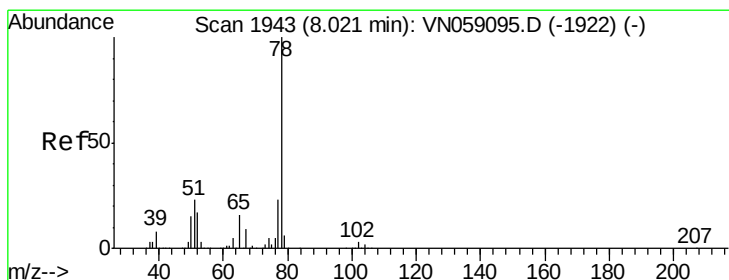
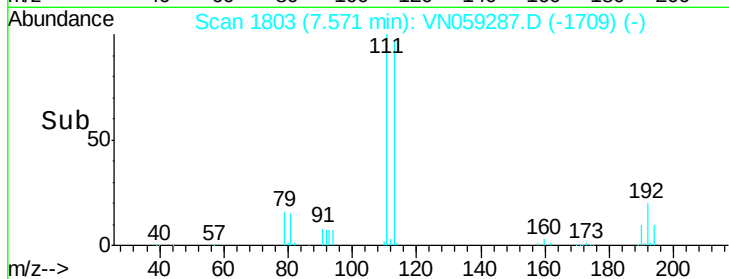
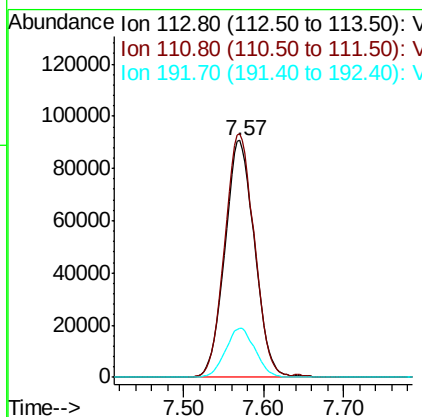
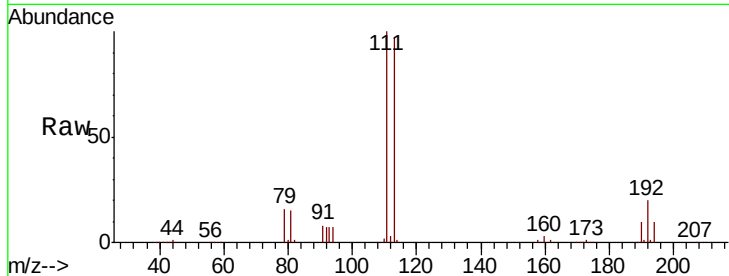
#35
 Dibromofluoromethane
 Concen: 49.720 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059287.D
 Acq: 18 Nov 2019 16:28

Instrument :
 MSVOA_N
 ClientSampleId :
 30696DL

Tot Ion	Ratio	Resp	Lower	Upper
113	100	229387		
111	102.5	82.8	124.2	
192	20.7	16.1	24.1	

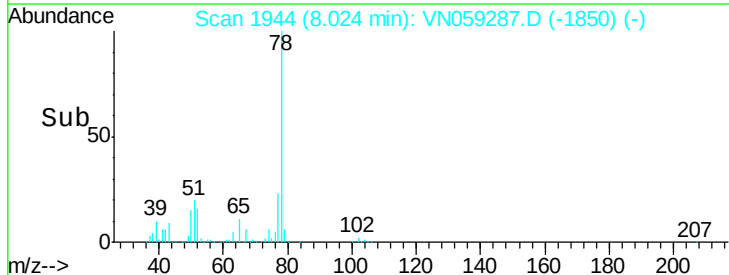
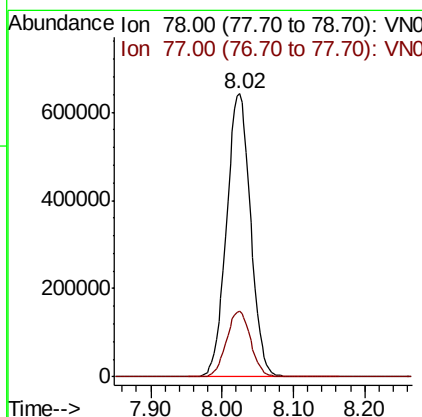
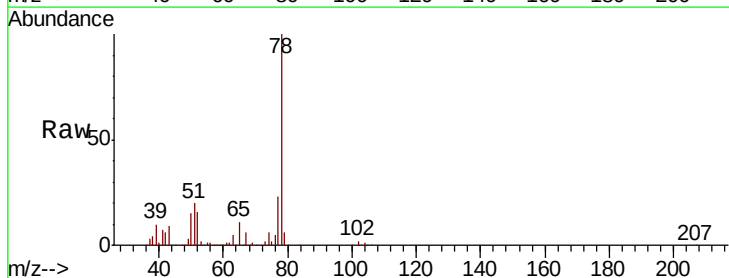
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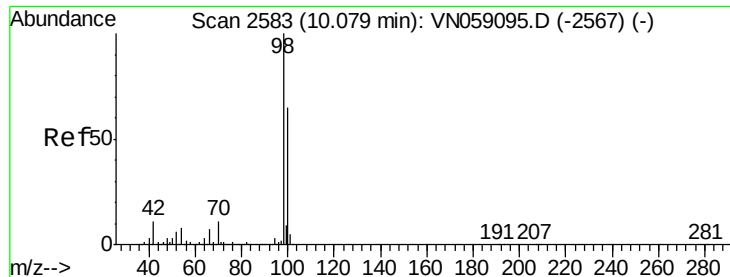
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#40
 Benzene
 Concen: 69.306 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN059287.D
 Acq: 18 Nov 2019 16:28

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	1507307		
77	23.1	18.8	28.2	





#50

Toluene-d8

Concen: 52.039 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059287.D

Acq: 18 Nov 2019 16:28

Instrument :

MSVOA_N

ClientSampled :

30696DL

Tot Ion: 98 Resp: 945676

Ion Ratio Lower Upper

98 100

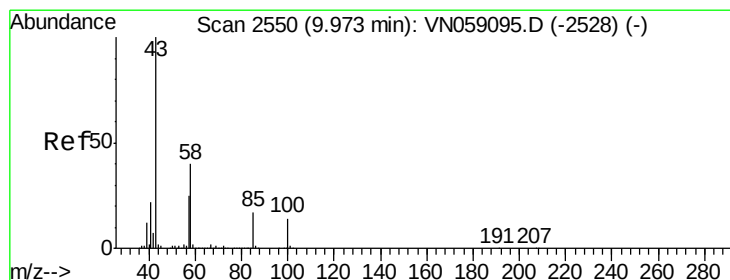
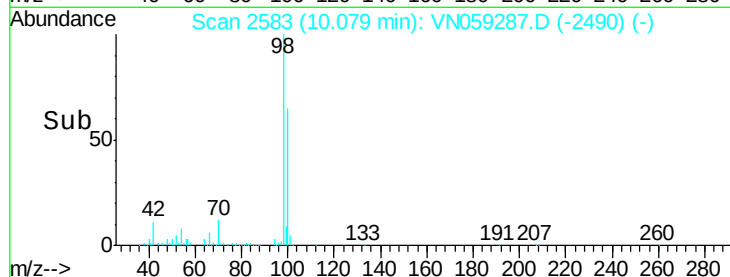
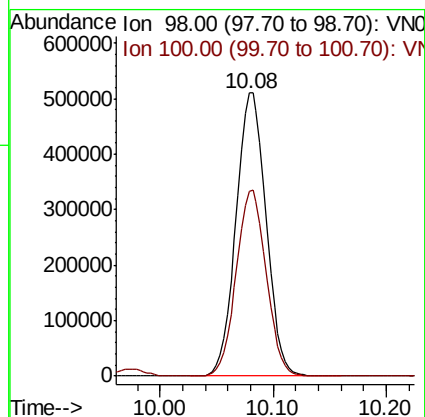
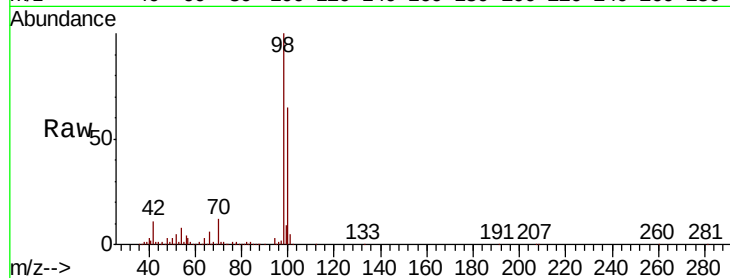
100 65.6 52.2 78.2

Manual Integrations

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#51

4-Methyl-2-Pentanone

Concen: 23.219 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059287.D

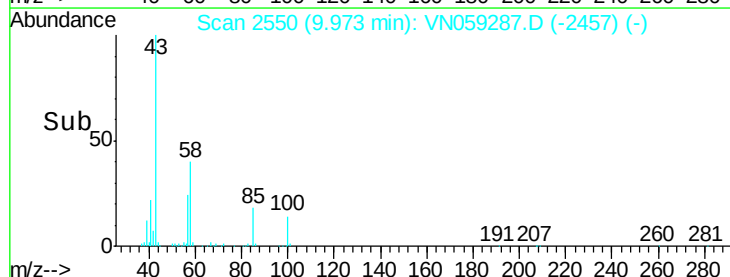
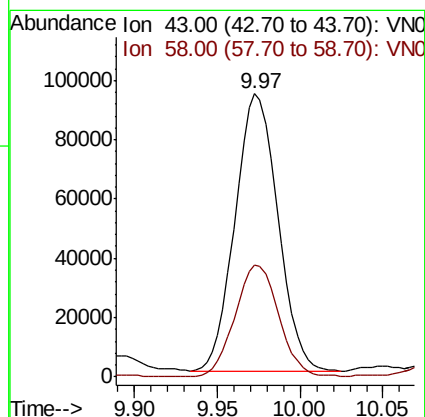
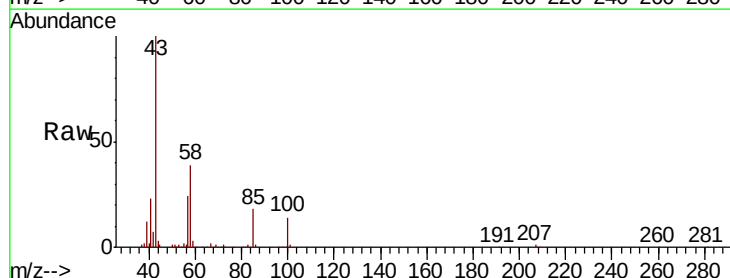
Acq: 18 Nov 2019 16:28

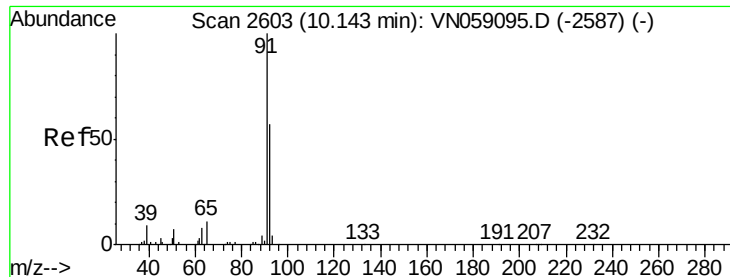
Tgt Ion: 43 Resp: 168284

Ion Ratio Lower Upper

43 100

58 41.4 31.5 47.3





#52

Toluene

Concen: 109.491 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059287.D

Acq: 18 Nov 2019 16:28

Instrument :

MSVOA_N

ClientSampleId :

30696DL

Tot Ion: 92 Resp: 1427273

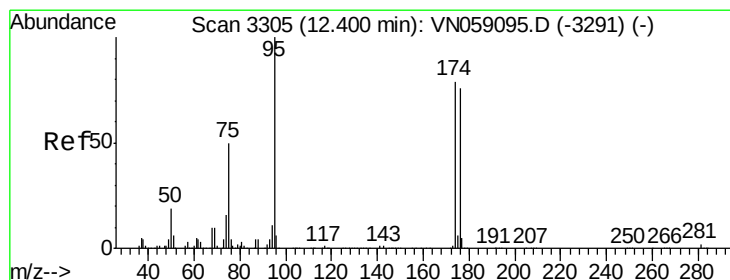
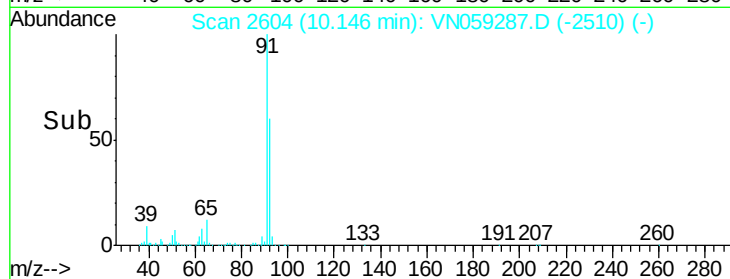
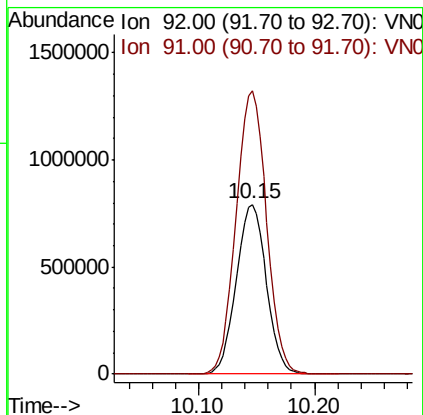
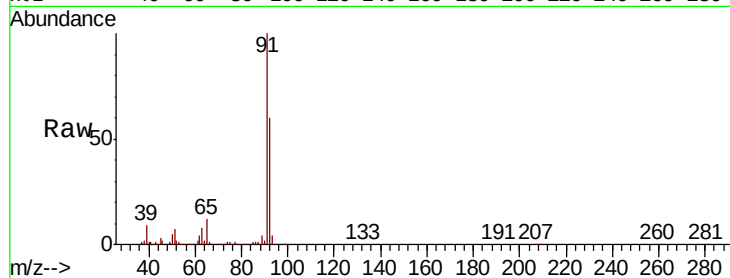
Ion Ratio Lower Upper

92 100

91 168.9 139.5 209.3

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#62

4-Bromofluorobenzene

Concen: 52.536 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN059287.D

Acq: 18 Nov 2019 16:28

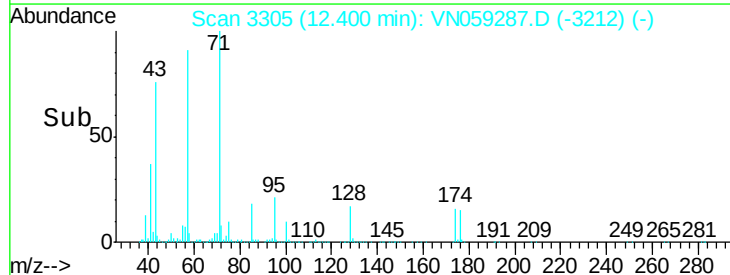
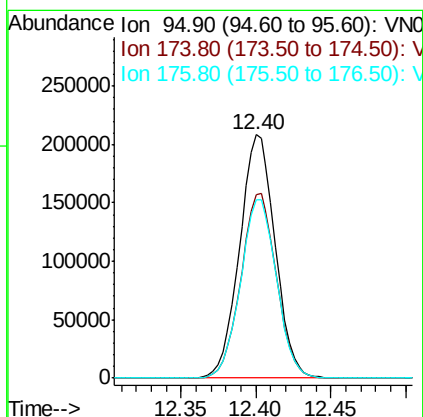
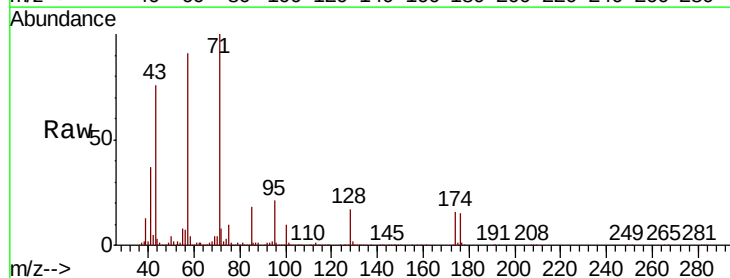
Tgt Ion: 95 Resp: 344233

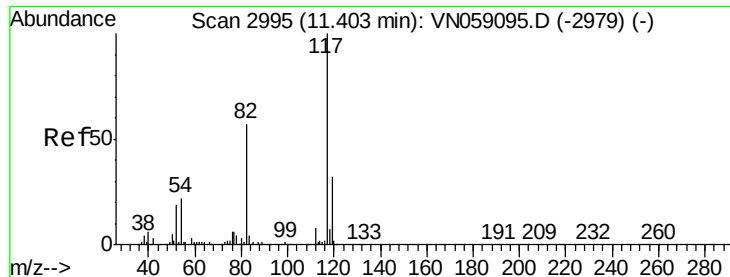
Ion Ratio Lower Upper

95 100

174 75.8 0.0 158.2

176 74.2 0.0 151.8





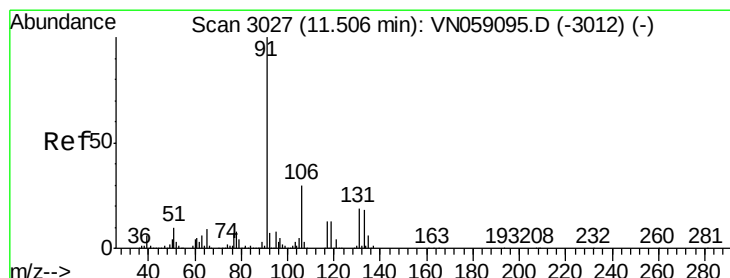
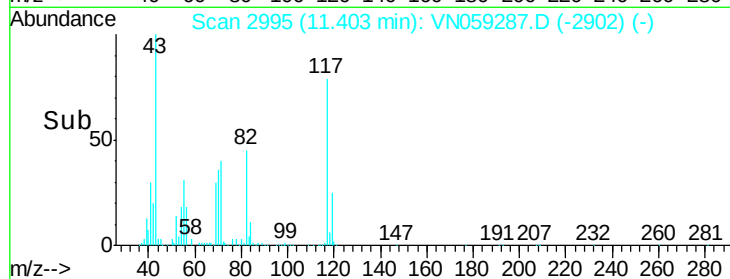
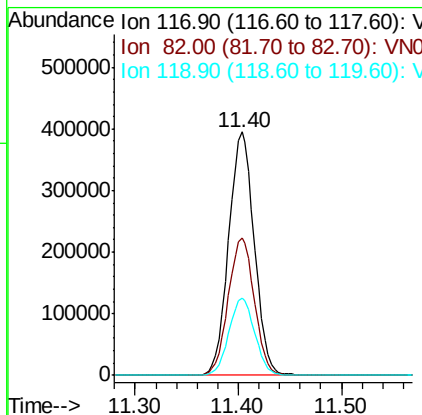
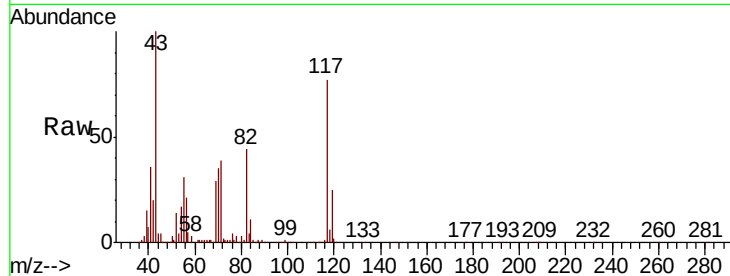
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN059287.D
Acq: 18 Nov 2019 16:28

Instrument :
MSVOA_N
ClientSampleId :
30696DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.8	68.8
119	31.9	25.8	38.6

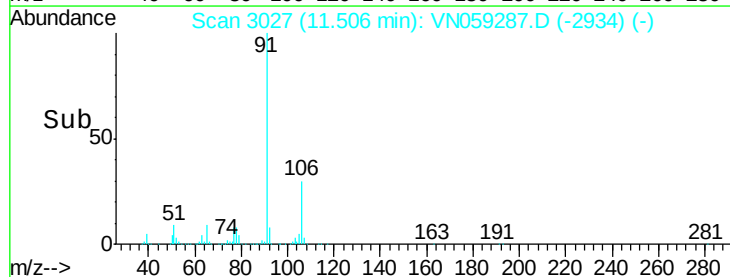
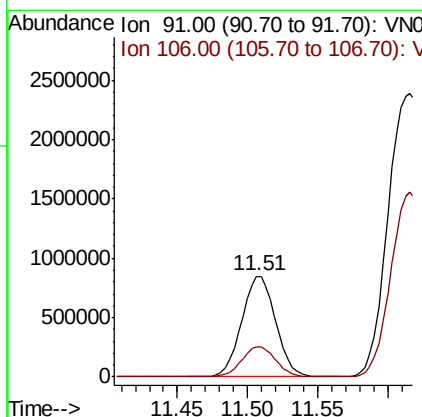
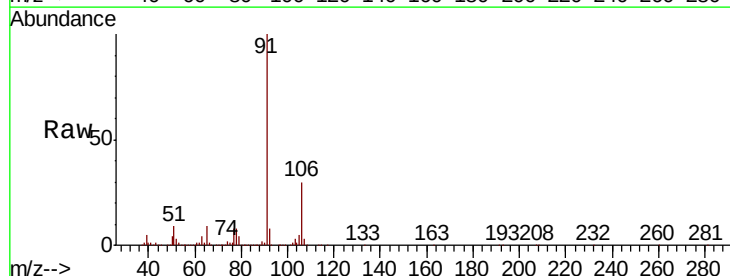
Manual Integrations
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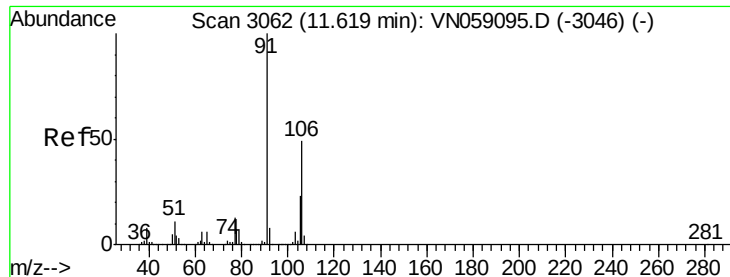
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#67
Ethyl Benzene
Concen: 60.368 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN059287.D
Acq: 18 Nov 2019 16:28

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.1	36.1





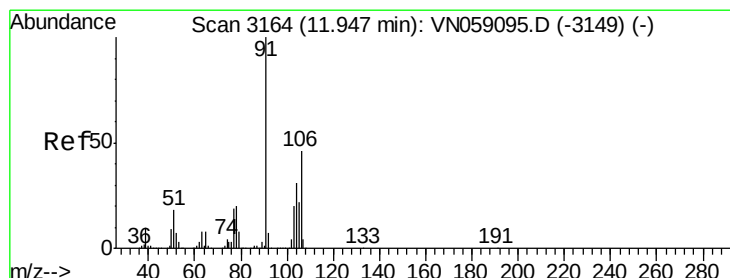
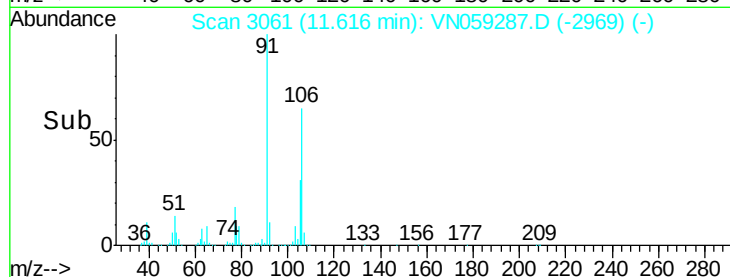
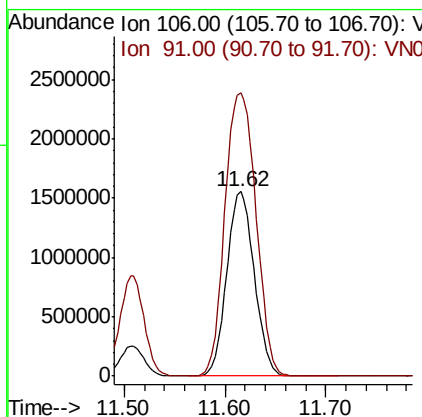
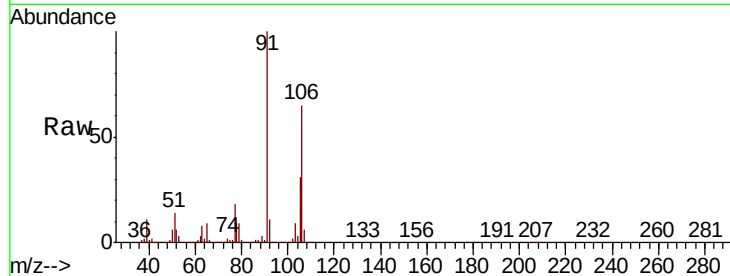
#68
m/p-Xylenes
Concen: 334.191 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN059287.D
Acq: 18 Nov 2019 16:28

Instrument :
MSVOA_N
ClientSampleId :
30696DL

Tot Ion:106 Resp: 2958665
Ion Ratio Lower Upper
106 100
91 173.1 164.7 247.1

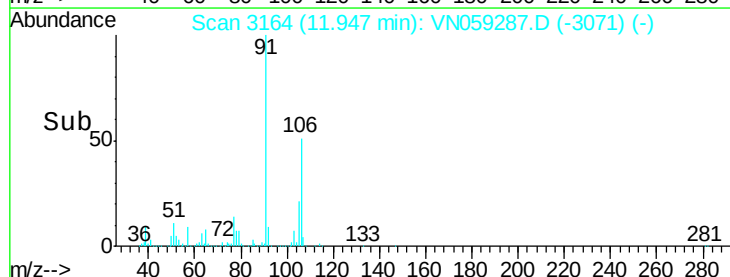
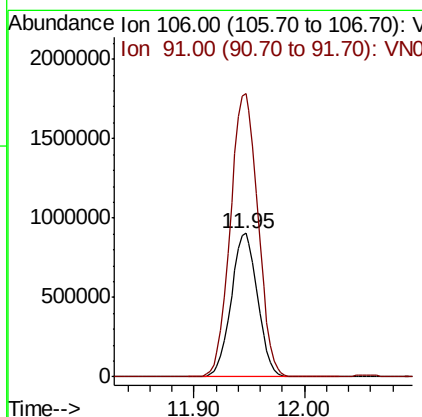
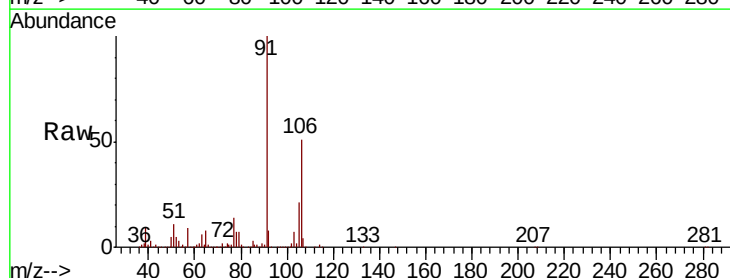
Manual Integrations
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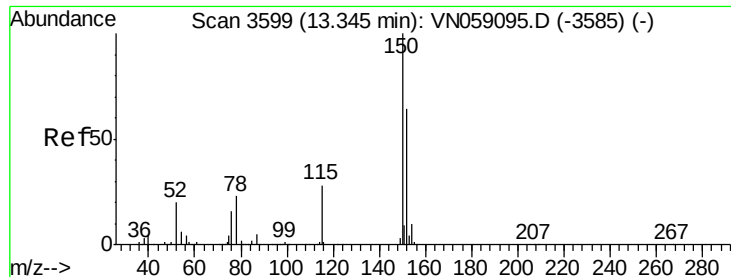
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#69
o-Xylene
Concen: 175.014 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN059287.D
Acq: 18 Nov 2019 16:28

Tgt Ion:106 Resp: 1497380
Ion Ratio Lower Upper
106 100
91 206.2 110.1 330.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN059287.D

Acq: 18 Nov 2019 16:28

Instrument :

MSVOA_N

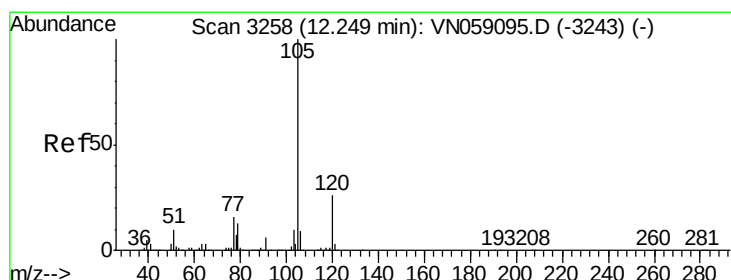
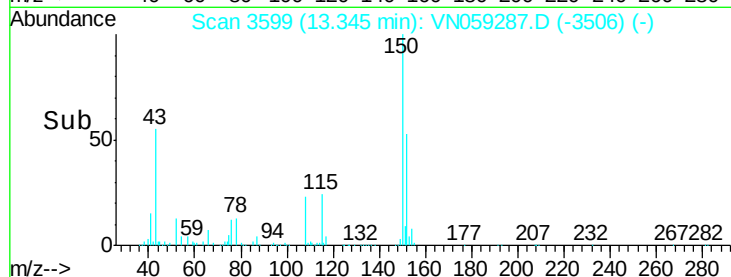
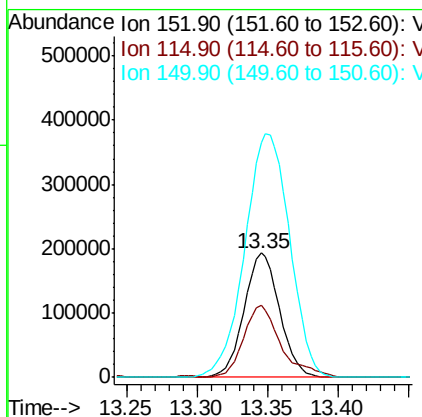
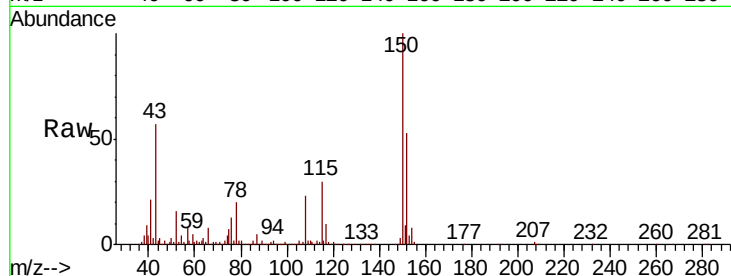
ClientSampleId :

30696DL

Tot Ion:	152	Resp:	339936
Ion Ratio	Lower	Upper	
152	100		
115	60.4	29.4	88.2
150	246.9	0.0	345.8

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#73

Isopropylbenzene

Concen: 1.966 ug/l

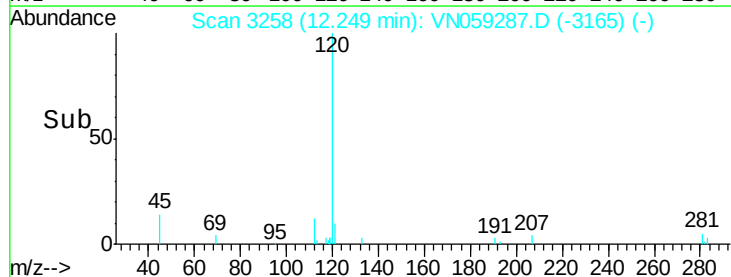
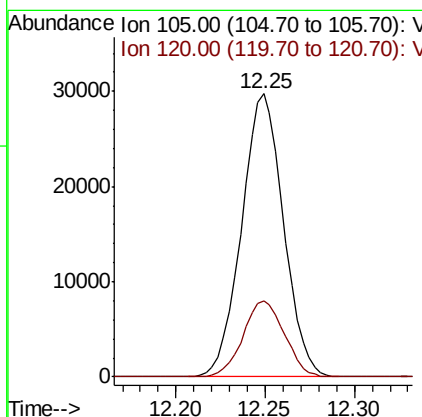
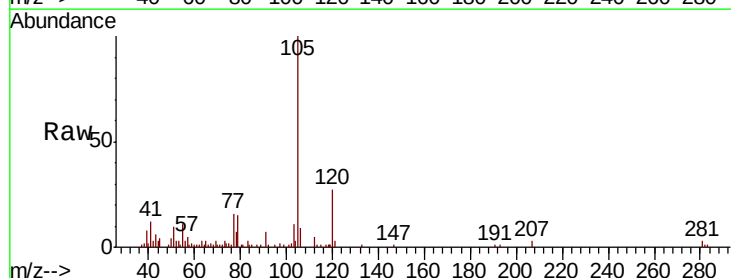
RT: 12.25 min Scan# 3258

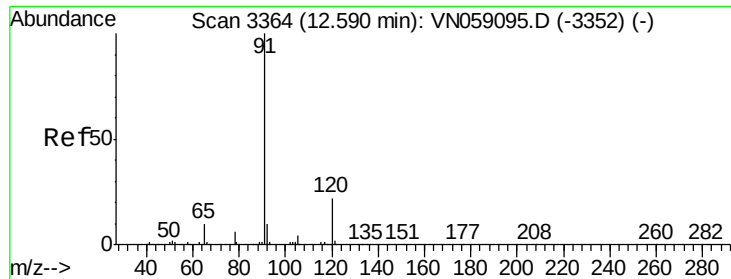
Delta R.T. 0.00 min

Lab File: VN059287.D

Acq: 18 Nov 2019 16:28

Tgt Ion:	105	Resp:	48615
Ion Ratio	Lower	Upper	
105	100		
120	26.5	13.1	39.3





#78

n-propylbenzene

Concen: 1.391 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN059287.D

Acq: 18 Nov 2019 16:28

Instrument :

MSVOA_N

ClientSampleId :

30696DL

Tot Ion: 91 Resp: 39385

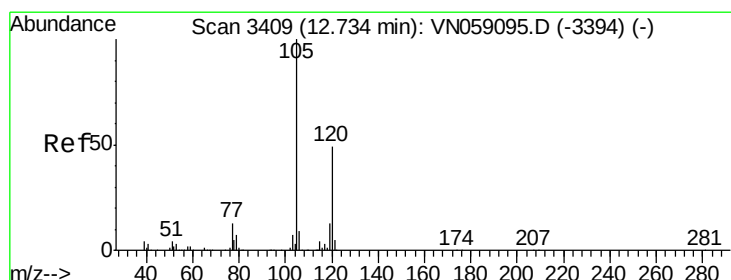
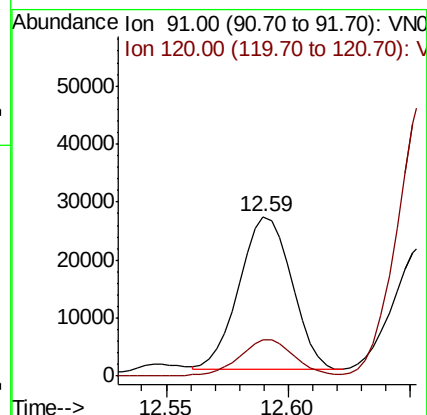
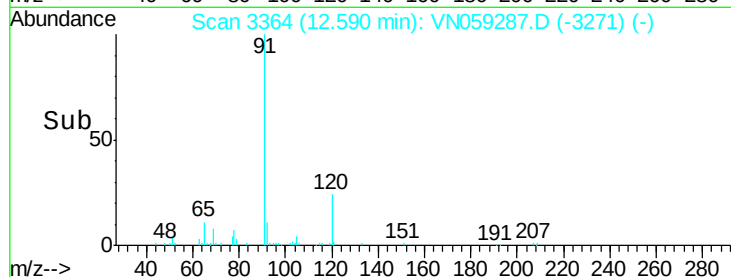
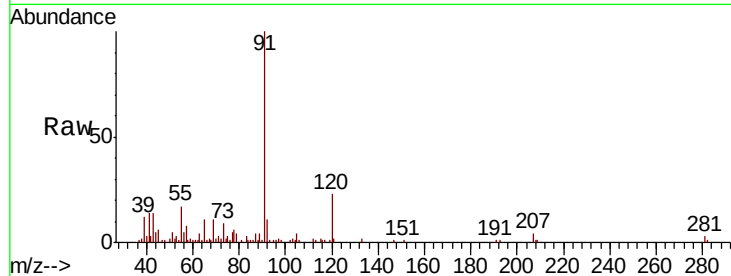
Ion Ratio Lower Upper

91 100

120 25.0 11.2 33.5

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#80

1,3,5-Trimethylbenzene

Concen: 15.342 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN059287.D

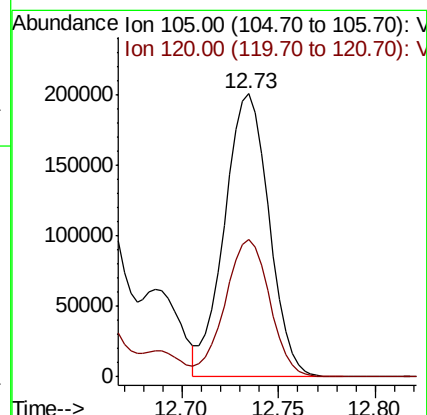
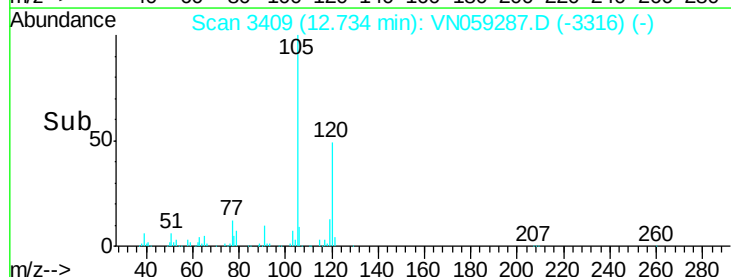
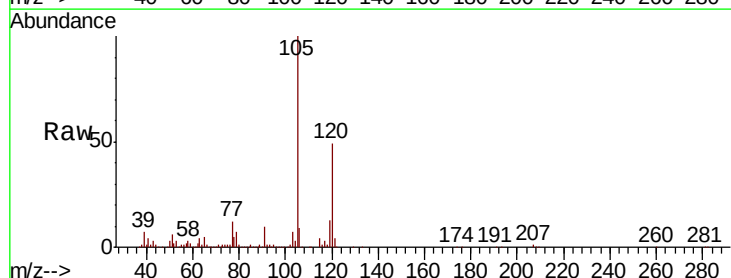
Acq: 18 Nov 2019 16:28

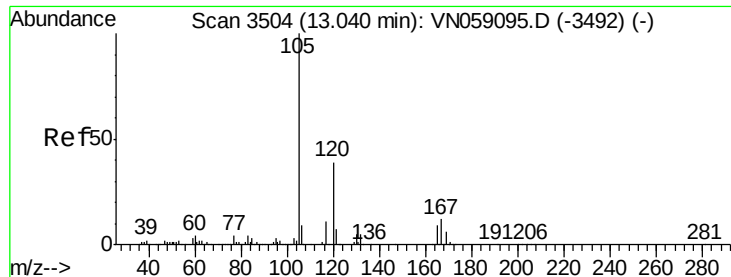
Tgt Ion: 105 Resp: 321449

Ion Ratio Lower Upper

105 100

120 48.6 24.0 72.0





#84

1,2,4-Trimethylbenzene

Concen: 57.140 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN059287.D

Acq: 18 Nov 2019 16:28

Instrument :

MSVOA_N

ClientSampleId :

30696DL

Tot Ion:105 Resp: 1158312

Ion Ratio Lower Upper

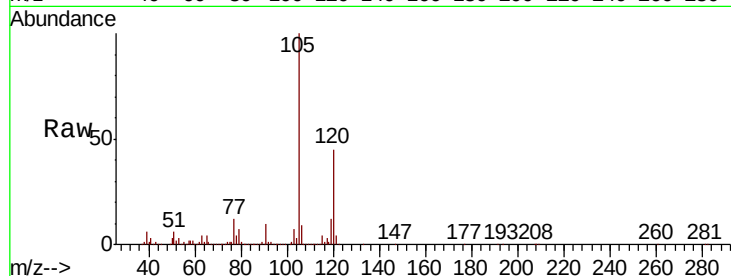
105 100

120 44.8 22.8 68.4

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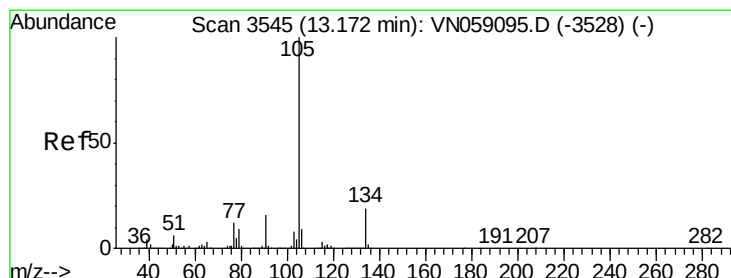
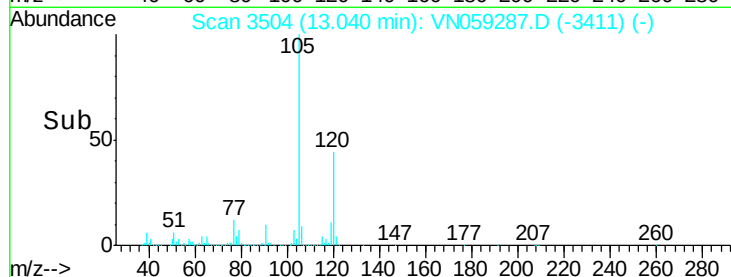
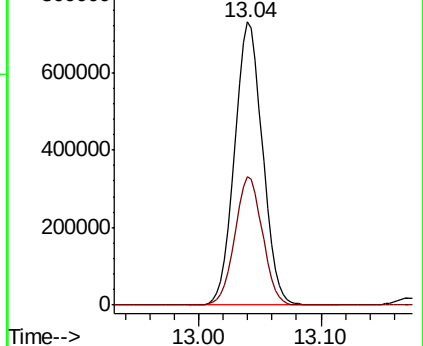
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 1.395 ug/l m

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN059287.D

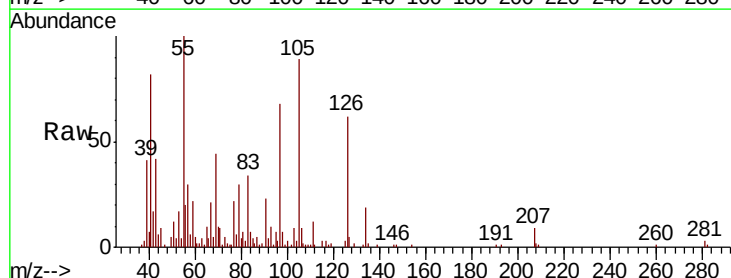
Acq: 18 Nov 2019 16:28

Tgt Ion:105 Resp: 32835

Ion Ratio Lower Upper

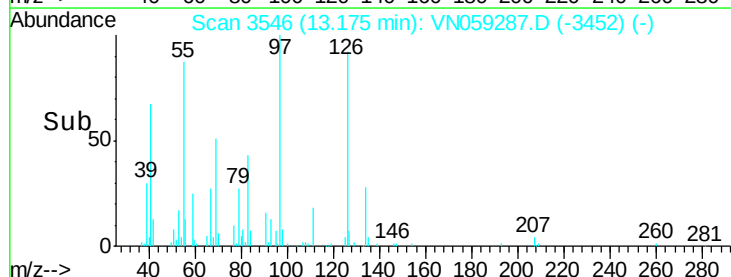
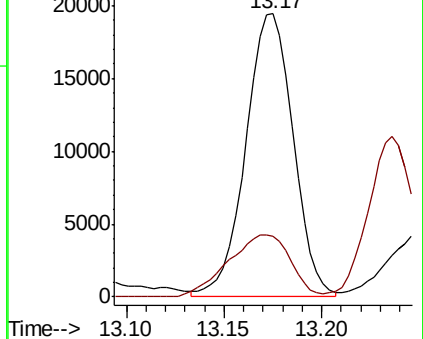
105 100

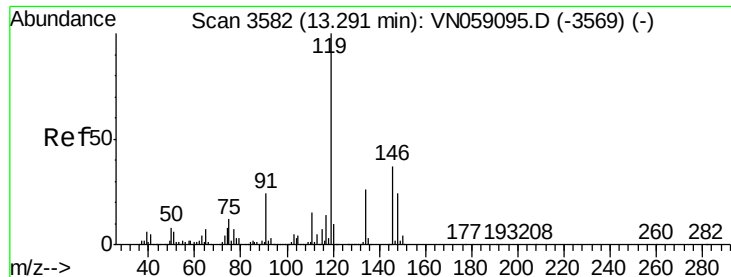
134 0.0 9.7 29.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





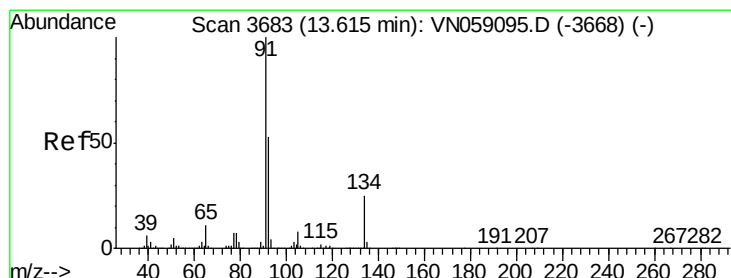
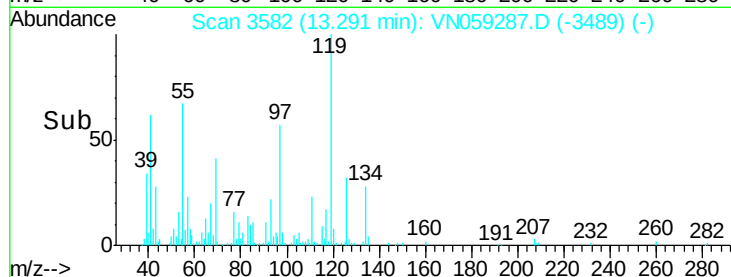
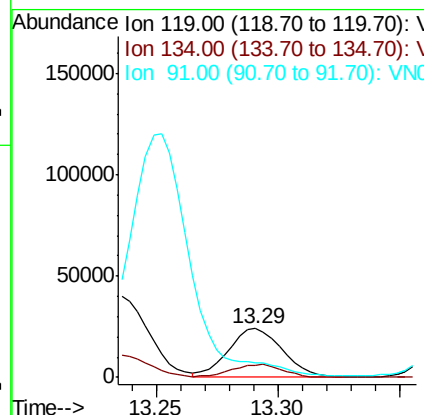
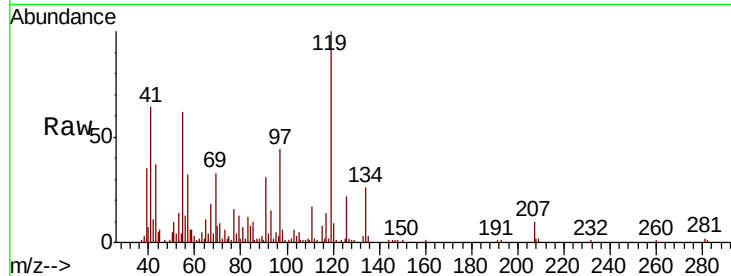
#86
 p-Isopropyltoluene
 Concen: 1.732 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN059287.D
 Acq: 18 Nov 2019 16:28

Instrument :
 MSVOA_N
 ClientSampled :
 30696DL

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.0	38.9
91	0.0	11.7	35.1#

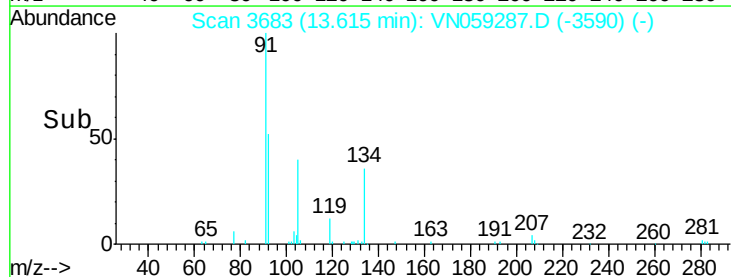
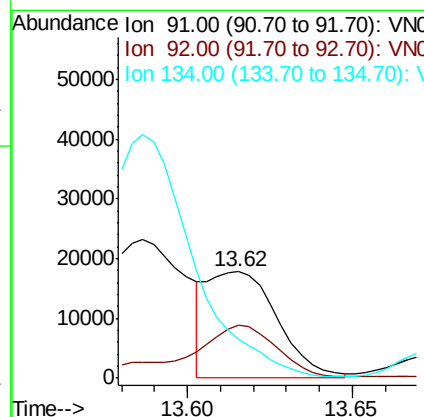
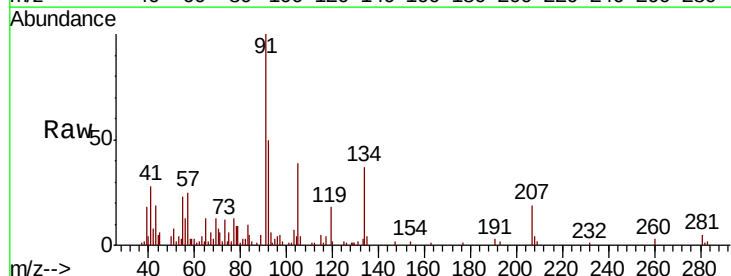
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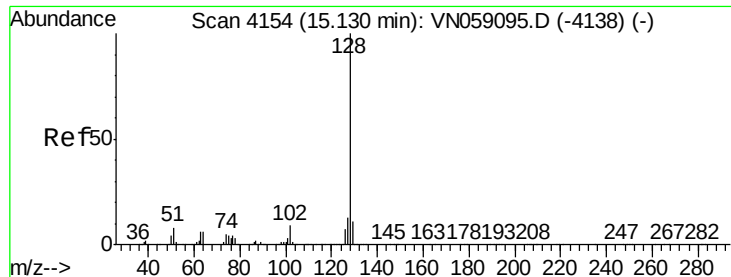
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#89
 n-Butylbenzene
 Concen: 1.458 ug/l m
 RT: 13.62 min Scan# 3683
 Delta R.T. 0.00 min
 Lab File: VN059287.D
 Acq: 18 Nov 2019 16:28

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.1	78.3#
134	289.1	12.6	37.8#





#95
Naphthalene
Concen: 9.301 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN059287.D
Acq: 18 Nov 2019 16:28

Instrument :
MSVOA_N
ClientSampleId :
30696DL

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	13.4	10.2	15.2
129	11.9	8.6	12.8

Manual Integrations
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