

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010719\
 Data File : VN053299.D
 Acq On : 7 Jan 2019 12:47
 Operator : MD\SY
 Sample : K1053-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-1-DRUM

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 9:25:09 AM

Quant Time: Jan 08 03:10:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N010519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jan 07 09:34:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1049491	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1605236	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1458271	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	634562	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	518332	47.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.94%	
35) Dibromofluoromethane	7.59	113	457229	50.04	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.08%	
50) Toluene-d8	10.09	98	1969935	49.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.94%	
62) 4-Bromofluorobenzene	12.40	95	671133	48.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.26%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.79	59	25314m	38.545	ug/l	
16) Acetone	3.82	43	83792	29.919	ug/l	98
18) Methyl Acetate	4.33	43	167712	16.972	ug/l	99
20) Methylene Chloride	4.55	84	20048	1.710	ug/l	90
25) 2-Butanone	6.84	43	130620	29.160	ug/l	98
39) Methylcyclohexane	9.09	83	9765	0.562	ug/l	98
40) Benzene	8.04	78	802898	17.540	ug/l	100
51) 4-Methyl-2-Pentanone	9.99	43	14329	1.484	ug/l	96
52) Toluene	10.16	92	645211	22.975	ug/l	99
67) Ethyl Benzene	11.51	91	164561	3.057	ug/l	98
68) m/p-Xylenes	11.62	106	212430	10.495	ug/l	99
69) o-Xylene	11.95	106	89137	4.498	ug/l	99
70) Styrene	11.96	104	223374	6.926	ug/l	97
73) Isopropylbenzene	12.25	105	15782	0.334	ug/l	99
78) n-propylbenzene	12.59	91	26769	0.501	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	73994	1.944	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	183648	4.737	ug/l	99
95) Naphthalene	15.13	128	1034122	92.690	ug/l	100

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

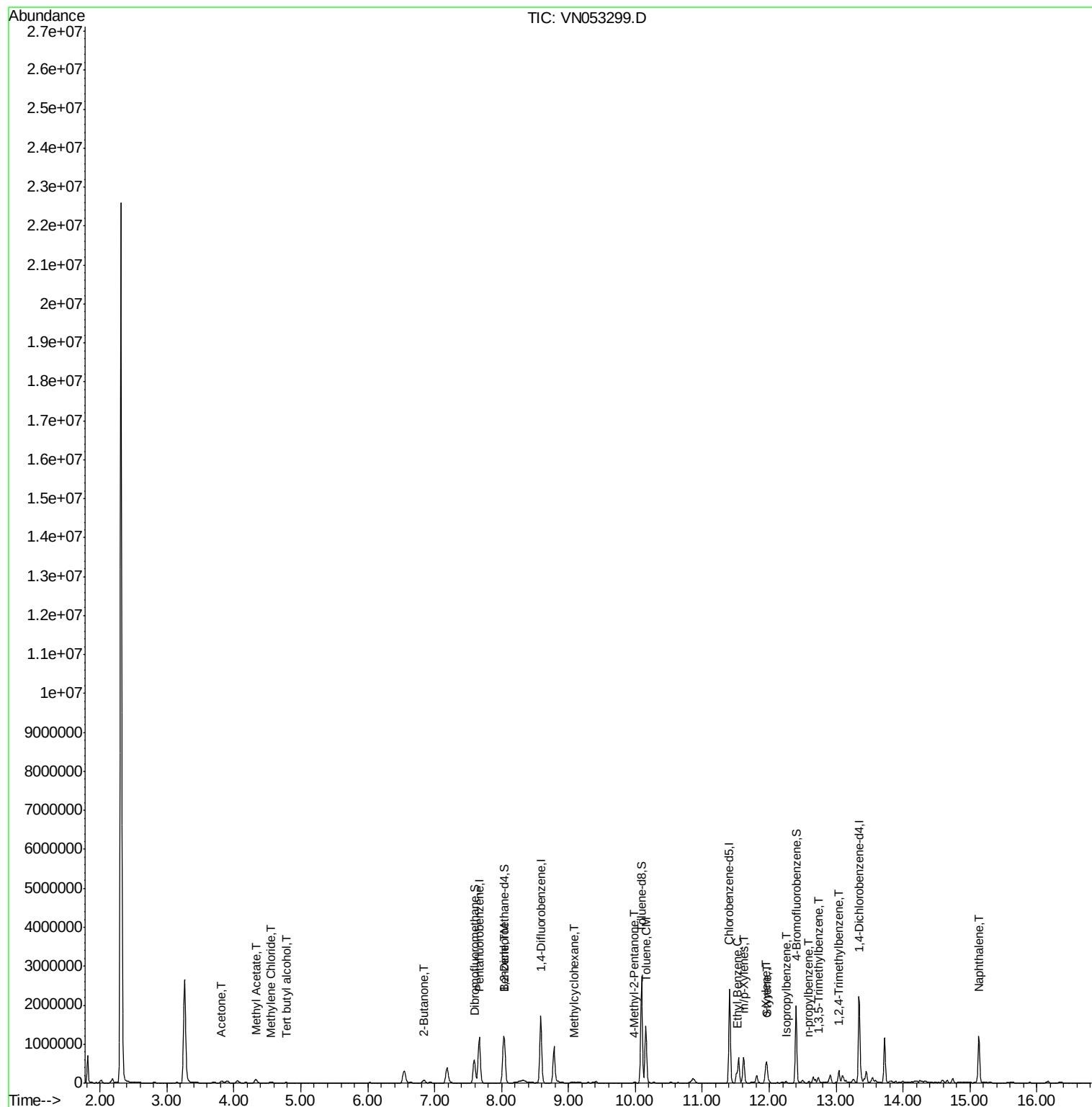
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010719\
Data File : VN053299.D
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Operator : MD\SY
Sample : K1053-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 8 Sample Multiplier: 28

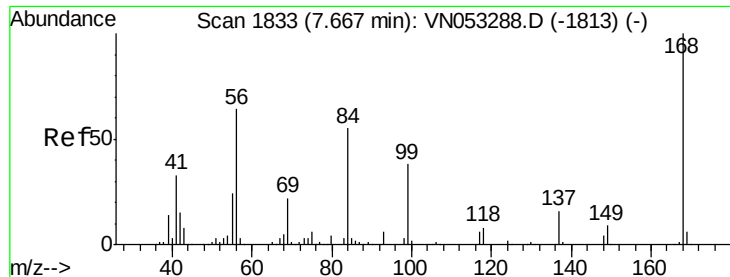
Instrument :
MSVOA_N
ClientSampleId :
COMP-1-DRUM

Manual Integrations
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Quant Time: Jan 08 03:10:22 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N010519W.M
Quant Title : SW846 8260
QLast Update : Mon Jan 07 09:34:27 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053299.D

Acq: 7 Jan 2019 12:47

Instrument :

MSVOA_N

ClientSampleId :

COMP-1-DRUM

Tot Ion:168 Resp: 1049491

Ion Ratio Lower Upper

168 100

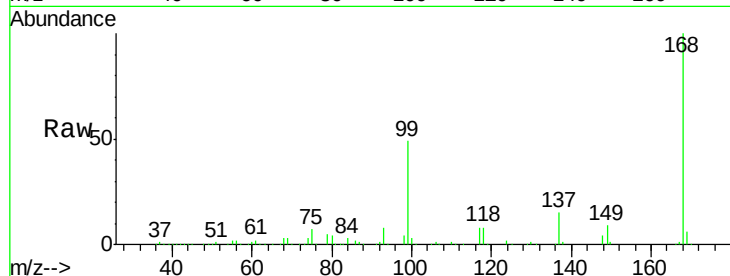
99 49.4 39.1 58.7

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

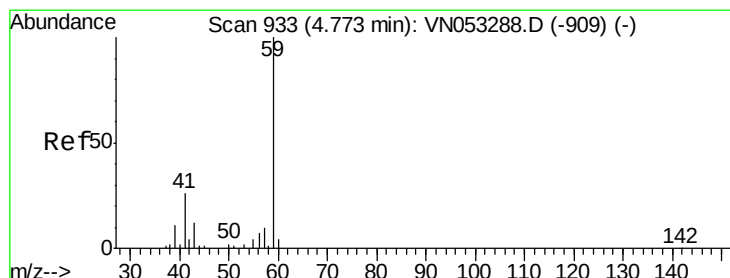
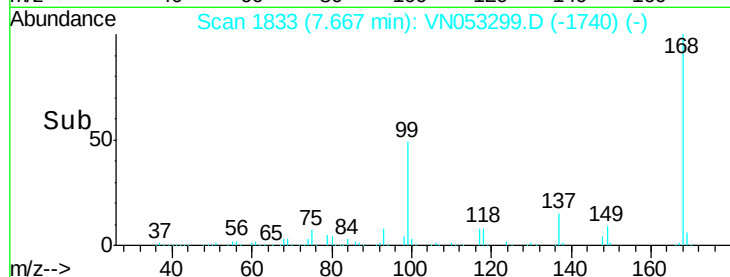
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 38.545 ug/l m

RT: 4.79 min Scan# 937

Delta R.T. 0.01 min

Lab File: VN053299.D

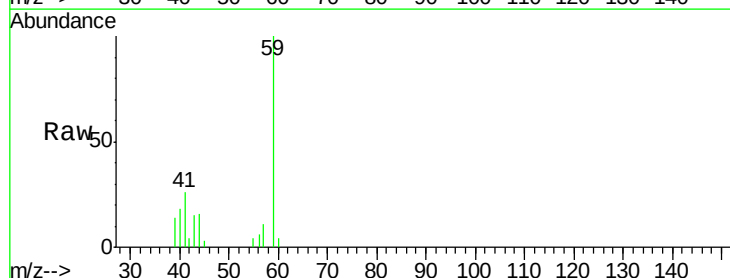
Acq: 7 Jan 2019 12:47

Tgt Ion: 59 Resp: 25314

Ion Ratio Lower Upper

59 100

57 5.8 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.79

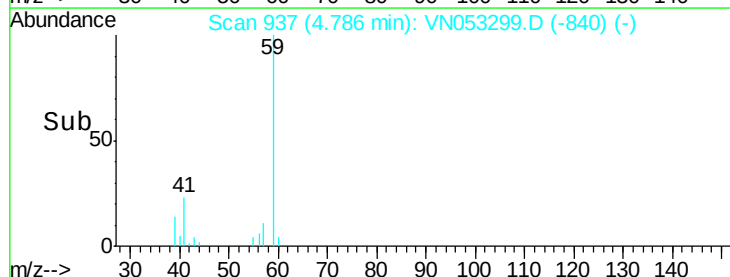
6000

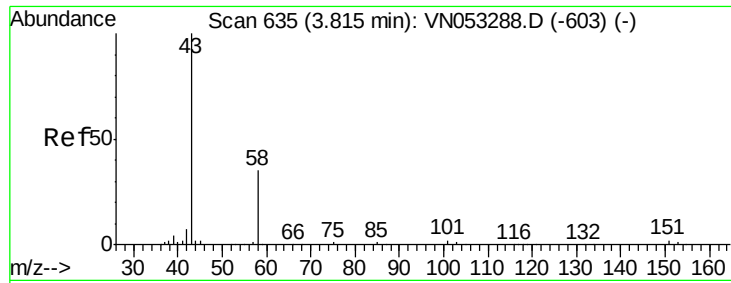
4000

2000

0

Time-->





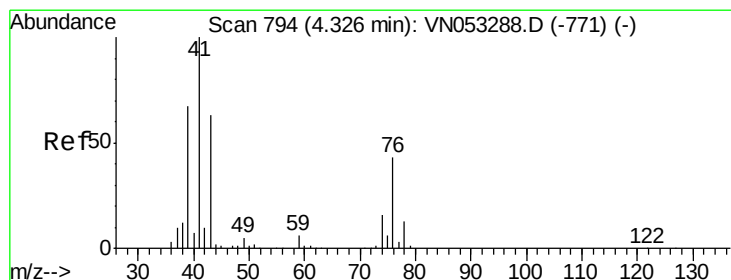
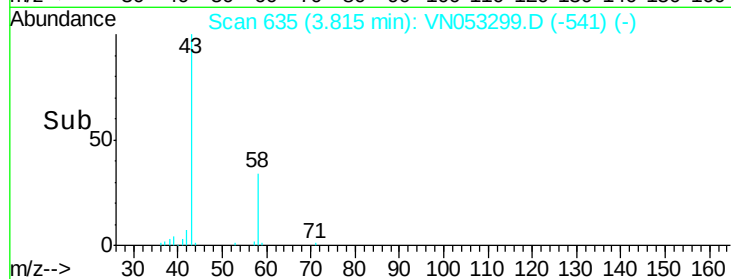
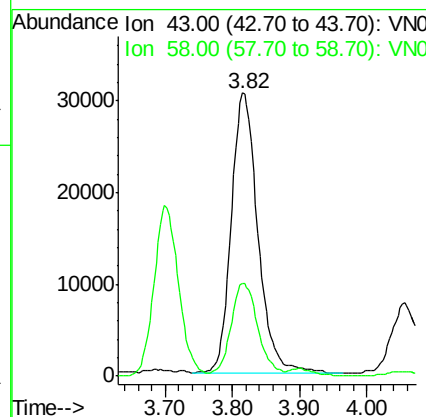
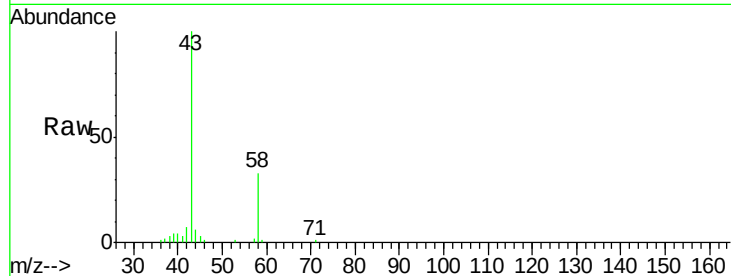
#16
Acetone
Concen: 29.919 ug/l
RT: 3.82 min Scan# 635
Delta R.T. 0.00 min
Lab File: VN053299.D
Acq: 7 Jan 2019 12:47

Instrument :
MSVOA_N
ClientSampleId :
COMP-1-DRUM

Tot Ion	43	Resp	83792
Ion Ratio	Lower	Upper	
43	100		
58	33.3	27.8	41.6

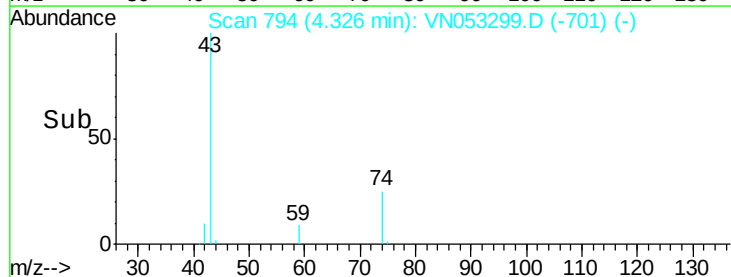
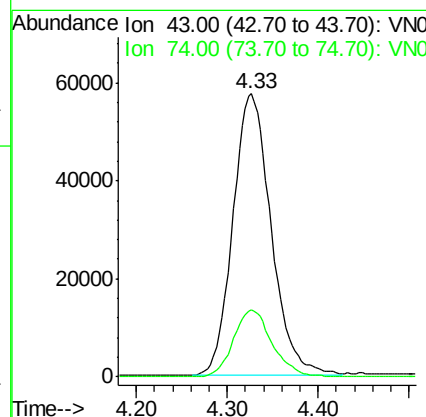
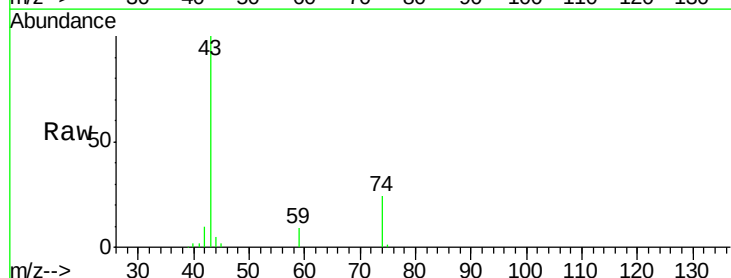
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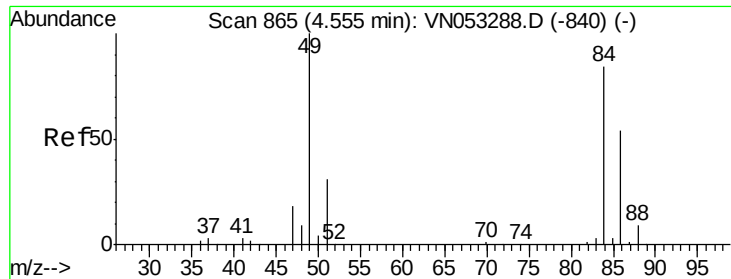
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#18
Methyl Acetate
Concen: 16.972 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053299.D
Acq: 7 Jan 2019 12:47

Tgt Ion	43	Resp	167712
Ion Ratio	Lower	Upper	
43	100		
74	24.1	19.8	29.8





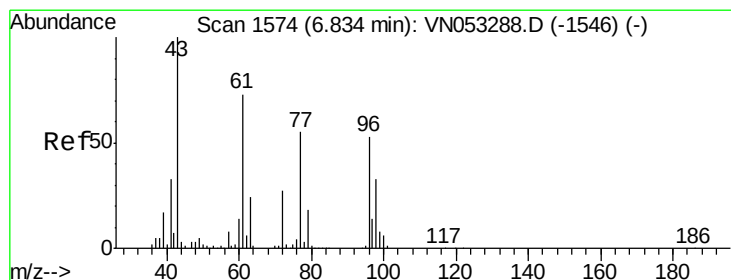
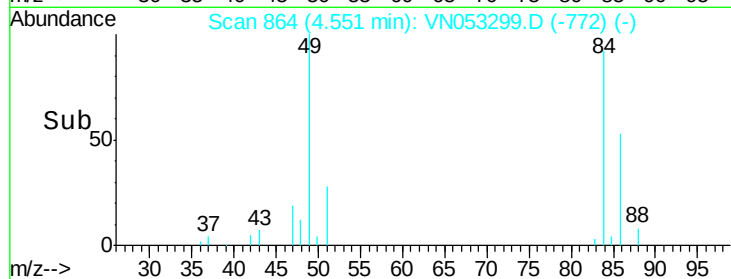
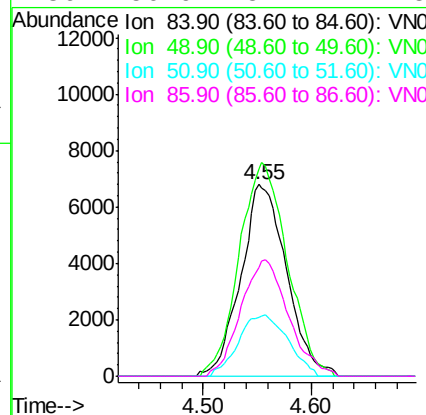
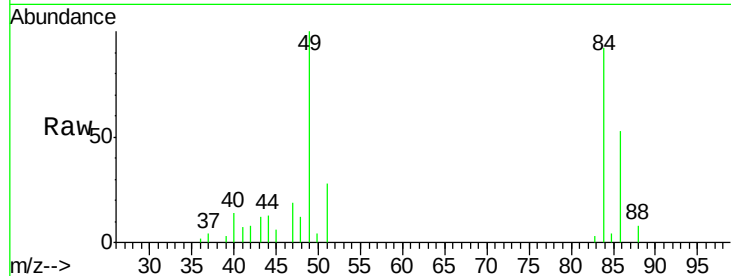
#20
Methvlene Chloride
Concen: 1.710 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN053299.D
Acq: 7 Jan 2019 12:47

Instrument :
MSVOA_N
ClientSampleId :
COMP-1-DRUM

Tot Ion	84	Resp	20048
Ion	Ratio	Lower	Upper
84	100		
49	108.2	95.3	142.9
51	30.5	29.0	43.6
86	56.9	51.7	77.5

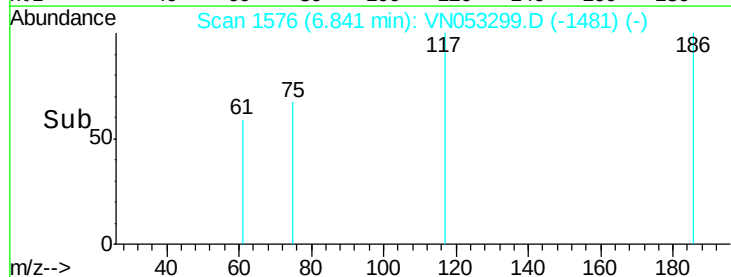
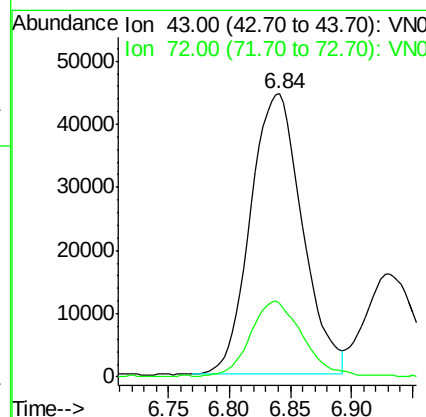
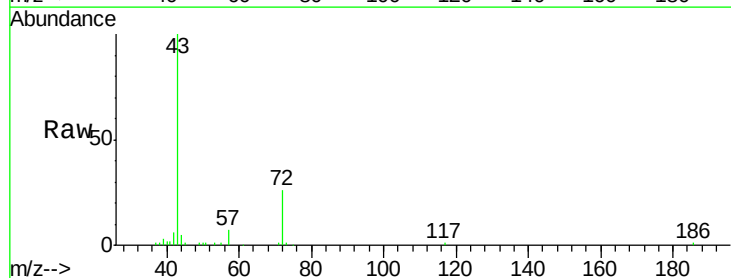
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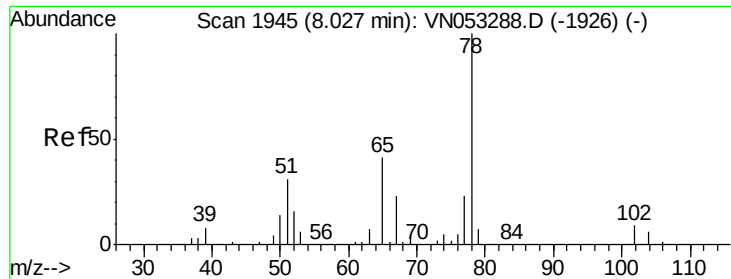
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#25
2-Butanone
Concen: 29.160 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053299.D
Acq: 7 Jan 2019 12:47

Tgt Ion	43	Resp	130620
Ion	Ratio	Lower	Upper
43	100		
72	26.4	22.0	33.0





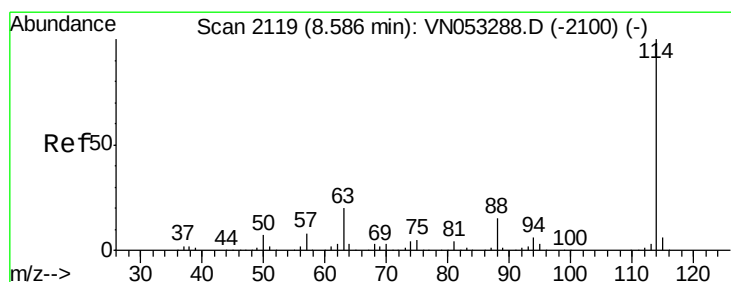
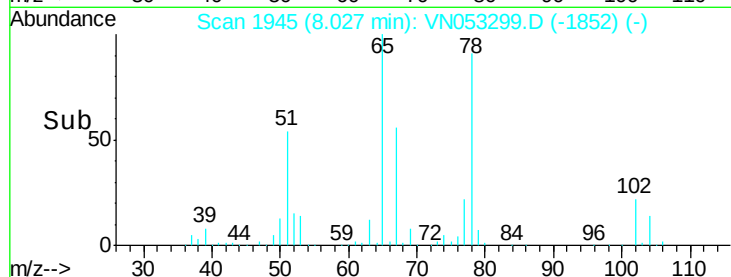
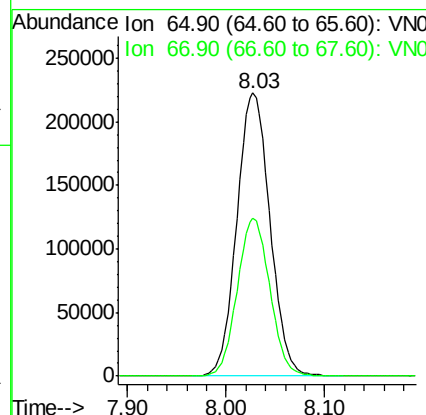
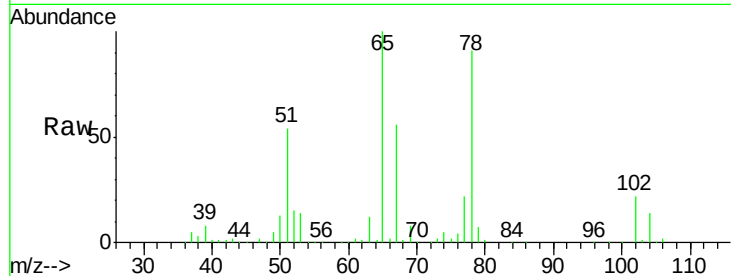
#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053299.D
 Acq: 7 Jan 2019 12:47

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-1-DRUM

Tot Ion: 65 Resp: 518332
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 111.0

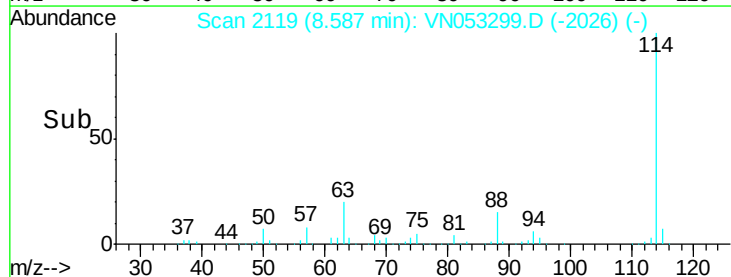
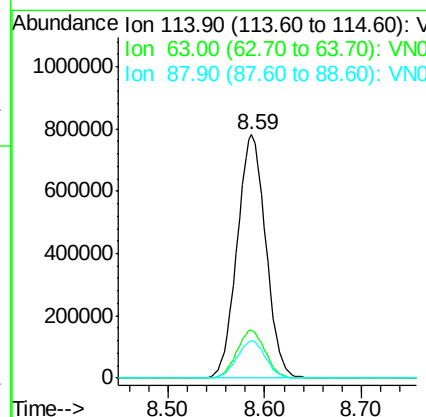
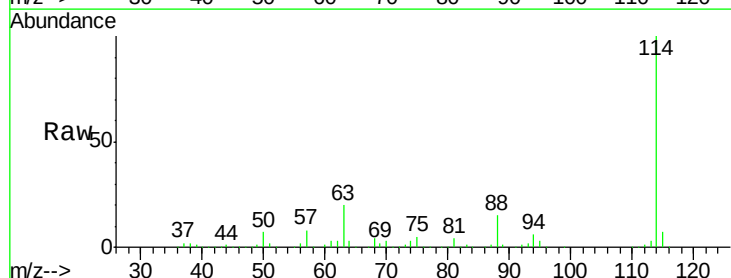
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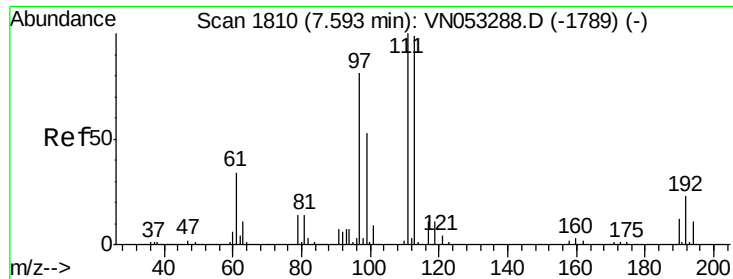
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053299.D
 Acq: 7 Jan 2019 12:47

Tgt Ion: 114 Resp: 1605236
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.0
 88 15.4 0.0 30.8





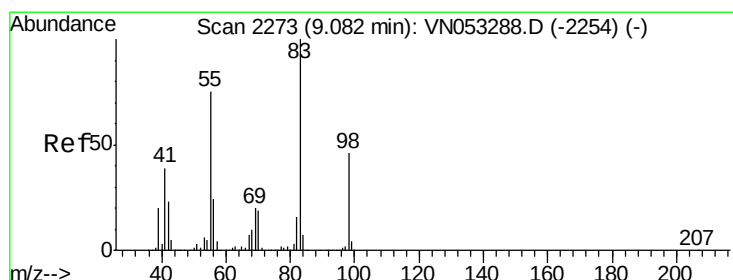
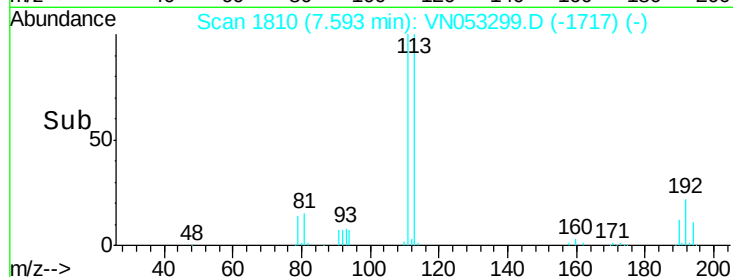
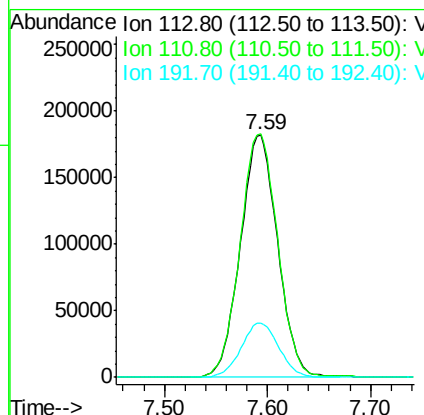
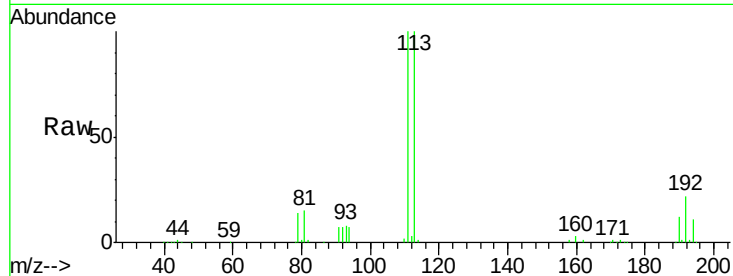
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053299.D
 Acq: 7 Jan 2019 12:47

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-1-DRUM

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.4	122.2
192	22.7	17.9	26.9

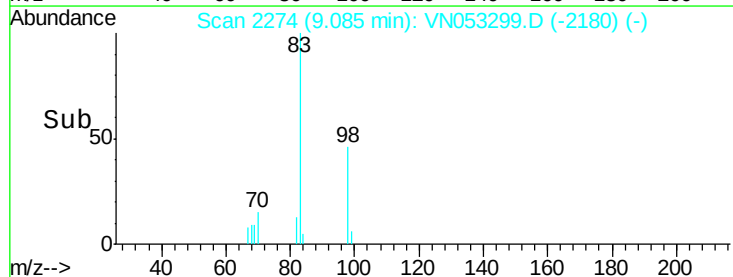
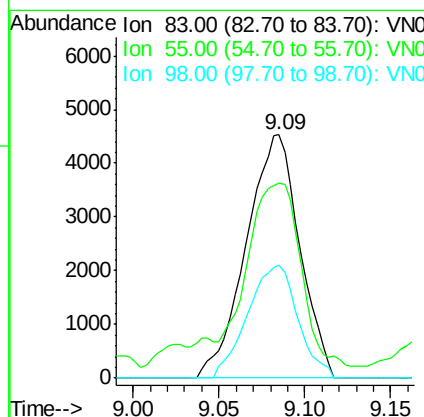
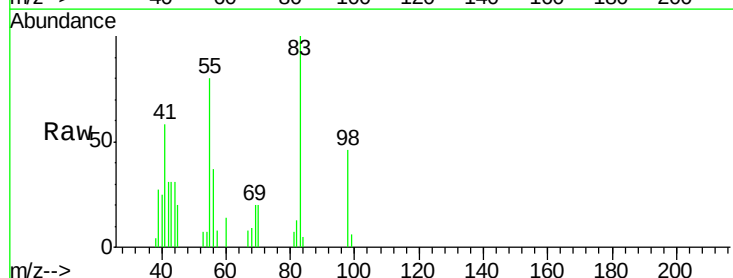
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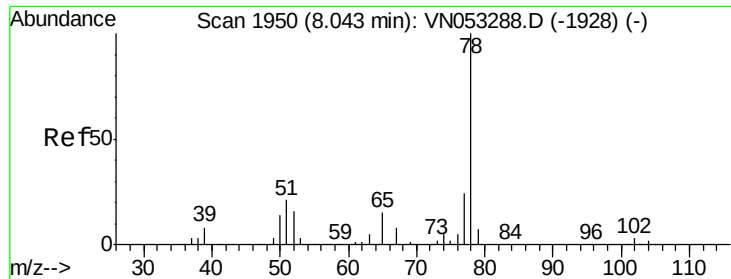
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#39
 Methylcyclohexane
 Concen: 0.562 ug/l
 RT: 9.09 min Scan# 2274
 Delta R.T. 0.00 min
 Lab File: VN053299.D
 Acq: 7 Jan 2019 12:47

Tgt Ion	Ratio	Lower	Upper
83	100		
55	72.5	60.1	90.1
98	46.3	36.7	55.1





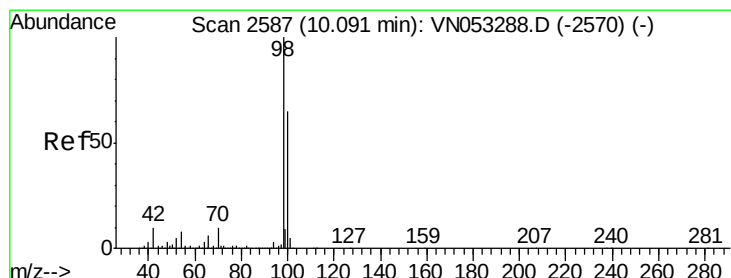
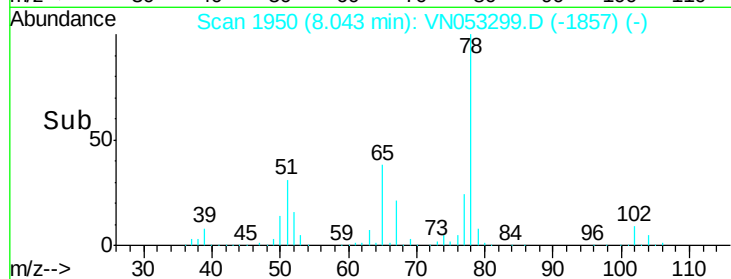
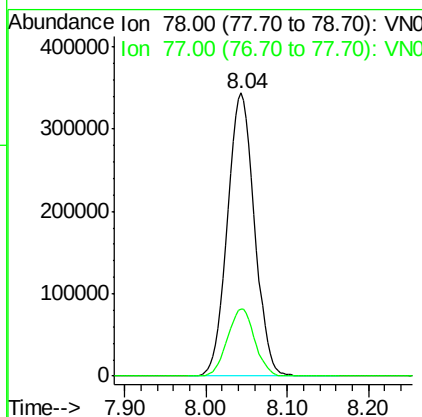
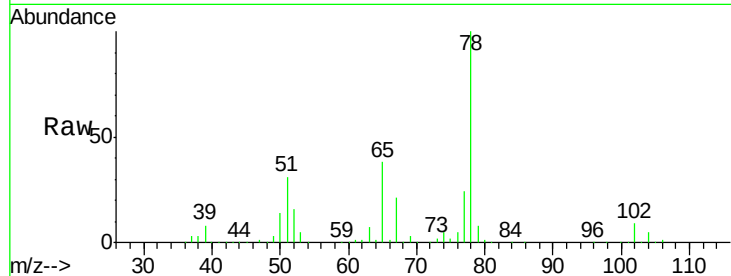
#40
Benzene
Concen: 17.540 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053299.D
Acq: 7 Jan 2019 12:47

Instrument :
MSVOA_N
ClientSampleId :
COMP-1-DRUM

Tot Ion: 78 Resp: 802898
Ion Ratio Lower Upper
78 100
77 23.8 19.0 28.4

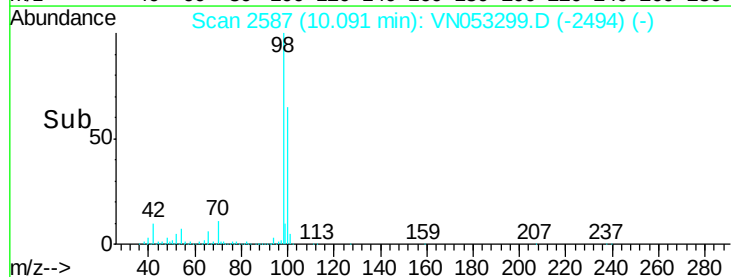
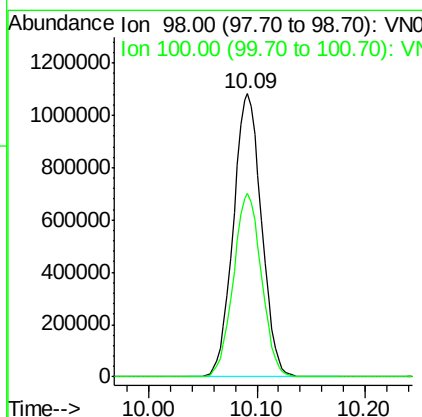
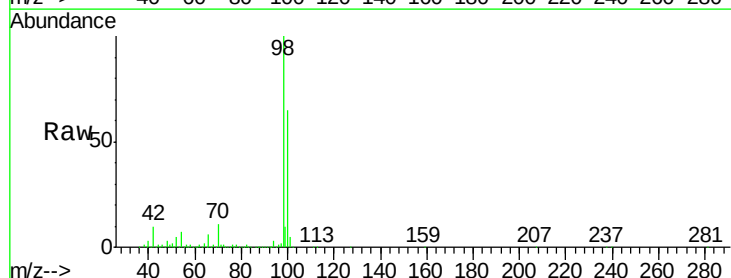
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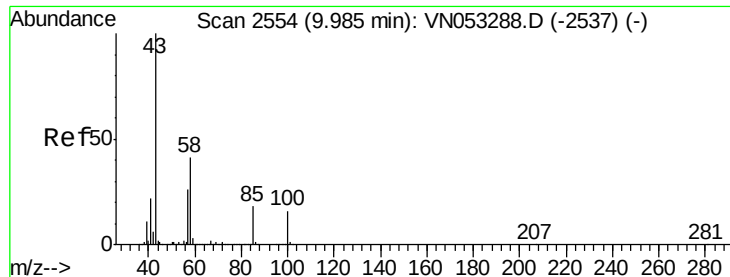
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#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053299.D
Acq: 7 Jan 2019 12:47

Tgt Ion: 98 Resp: 1969935
Ion Ratio Lower Upper
98 100
100 64.5 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 1.484 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053299.D

Acq: 7 Jan 2019 12:47

Instrument :

MSVOA_N

ClientSampleId :

COMP-1-DRUM

Tot Ion: 43 Resp: 14329

Ion Ratio Lower Upper

43 100

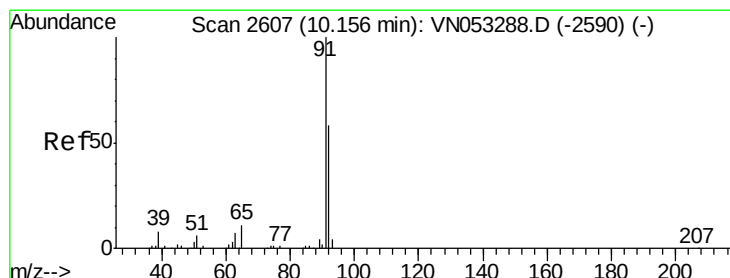
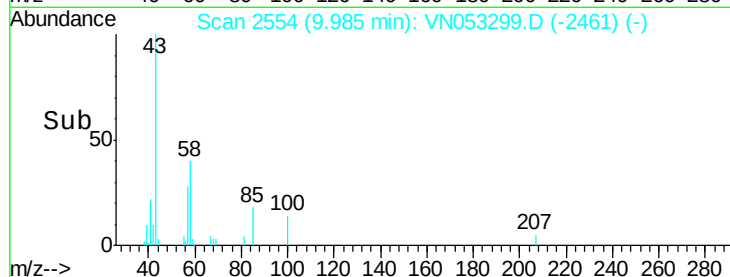
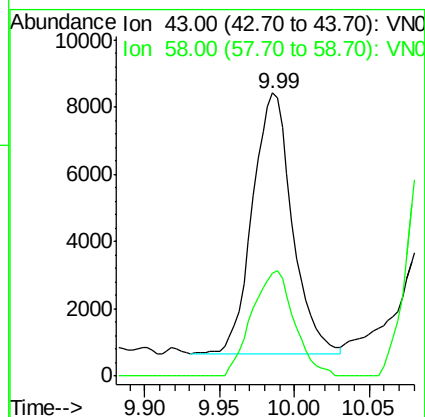
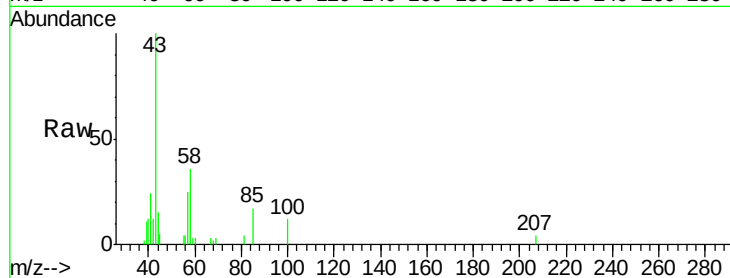
58 43.2 32.7 49.1

Manual Integrations

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#52

Toluene

Concen: 22.975 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053299.D

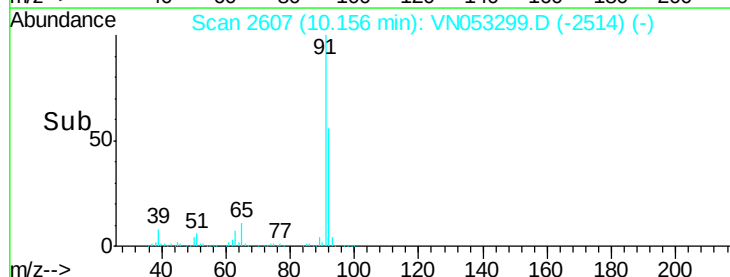
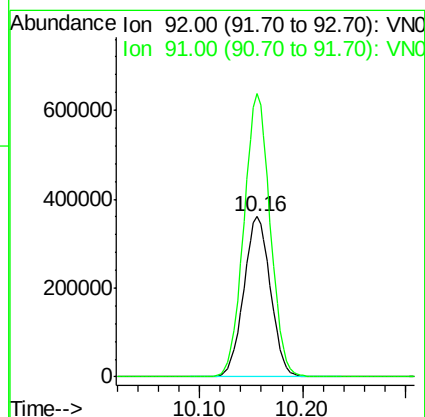
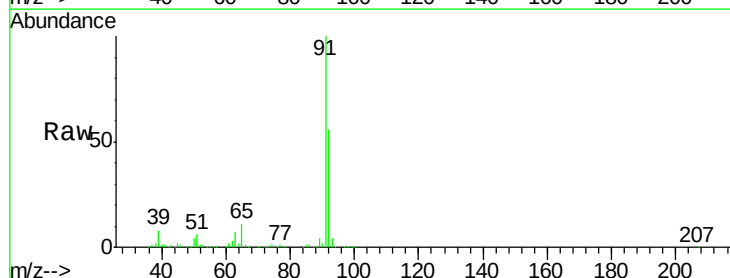
Acq: 7 Jan 2019 12:47

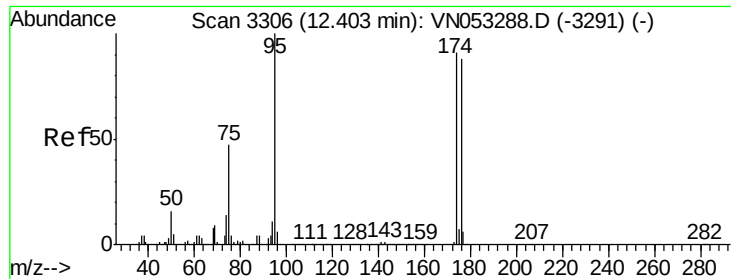
Tgt Ion: 92 Resp: 645211

Ion Ratio Lower Upper

92 100

91 174.6 138.6 208.0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053299.D

Acq: 7 Jan 2019 12:47

Instrument :

MSVOA_N

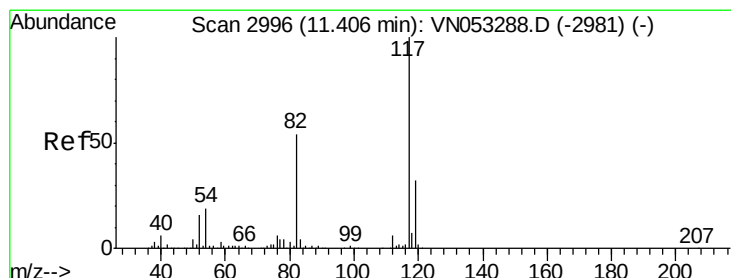
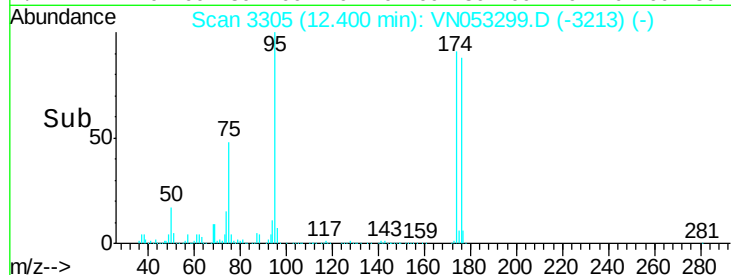
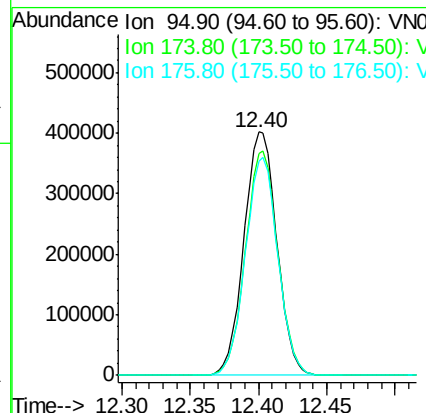
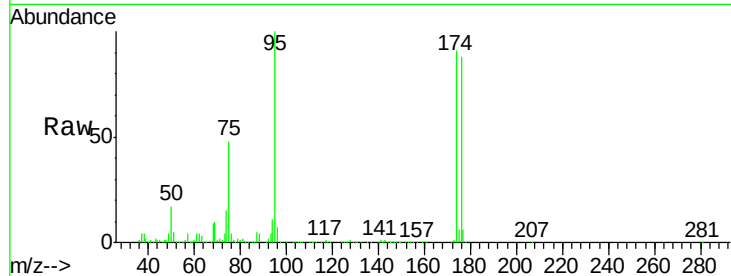
ClientSampleId :

COMP-1-DRUM

Tot Ion:	95	Resp:	671133
Ion Ratio	Lower	Upper	
95	100		
174	90.6	0.0	180.4
176	88.5	0.0	175.6

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

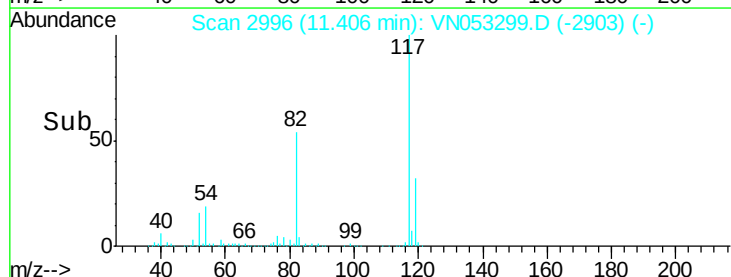
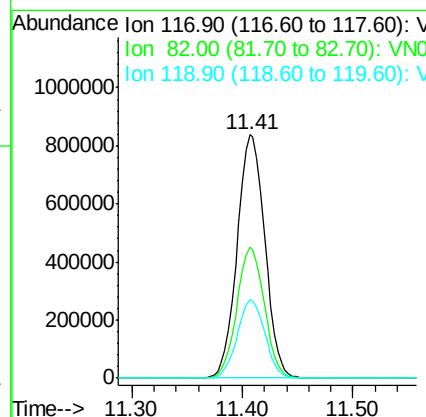
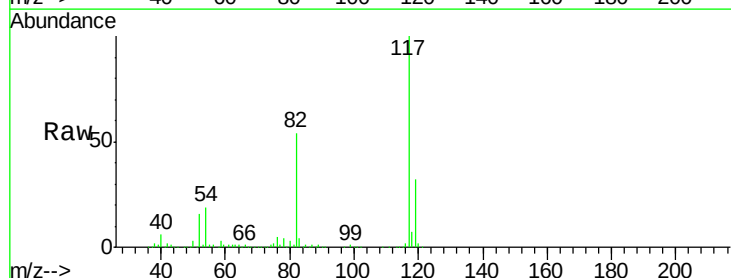
RT: 11.41 min Scan# 2996

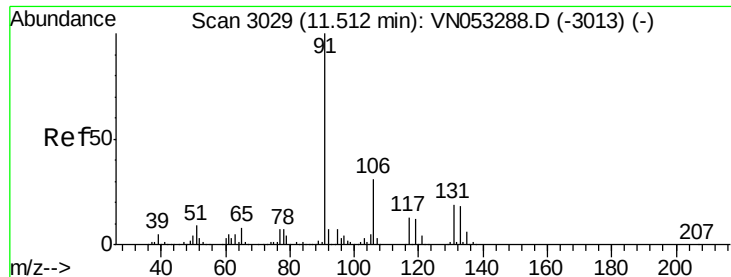
Delta R.T. 0.00 min

Lab File: VN053299.D

Acq: 7 Jan 2019 12:47

Tgt Ion:	117	Resp:	1458271
Ion Ratio	Lower	Upper	
117	100		
82	53.9	42.9	64.3
119	32.2	25.6	38.4





#67

Ethyl Benzene

Concen: 3.057 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN053299.D

Acq: 7 Jan 2019 12:47

Instrument :

MSVOA_N

ClientSampled :

COMP-1-DRUM

Tot Ion: 91 Resp: 164561

Ion Ratio Lower Upper

91 100

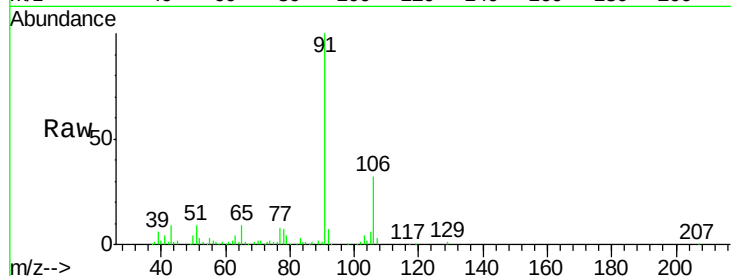
106 32.1 25.0 37.4

Manual Integrations

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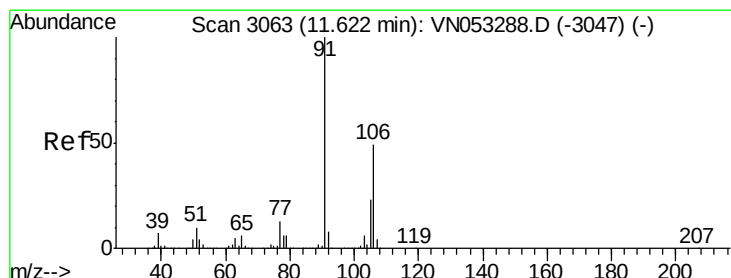
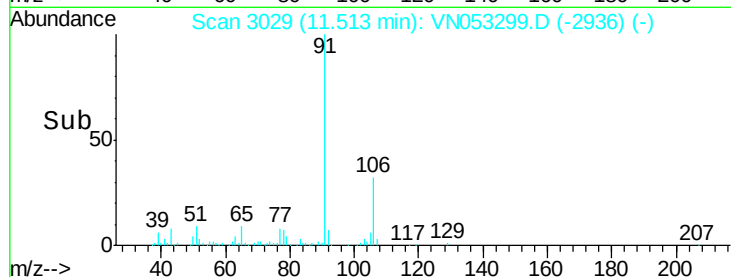
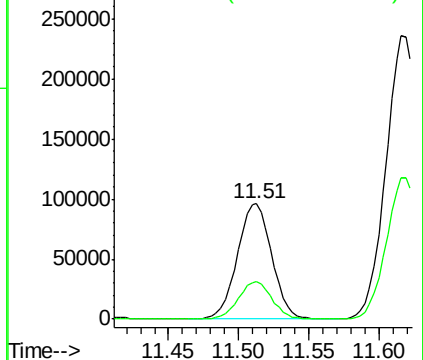
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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 10.495 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN053299.D

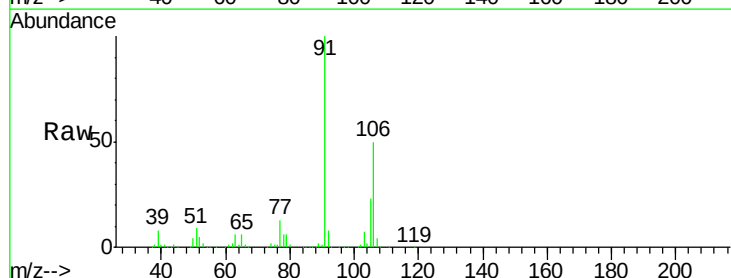
Acq: 7 Jan 2019 12:47

Tgt Ion: 106 Resp: 212430

Ion Ratio Lower Upper

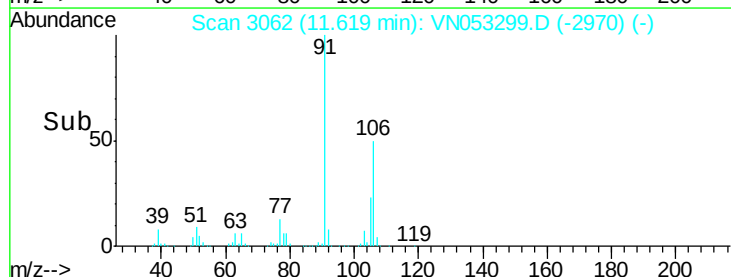
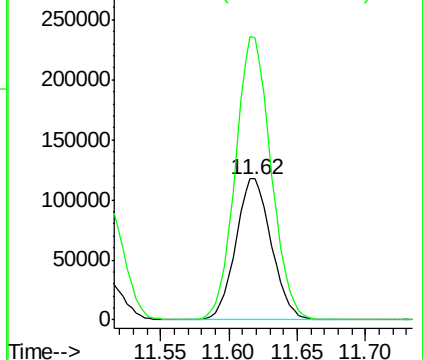
106 100

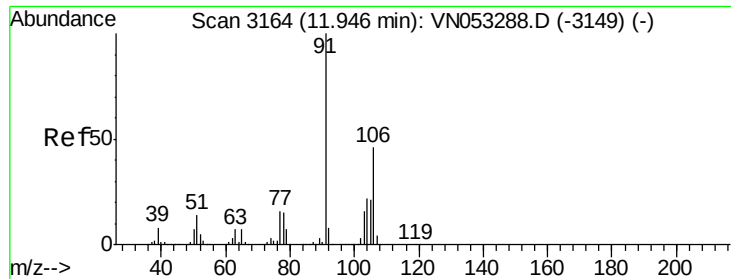
91 200.3 161.4 242.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





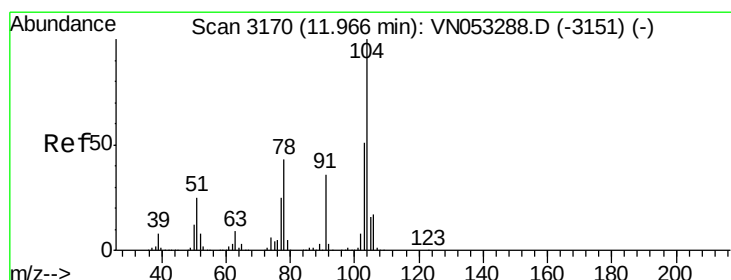
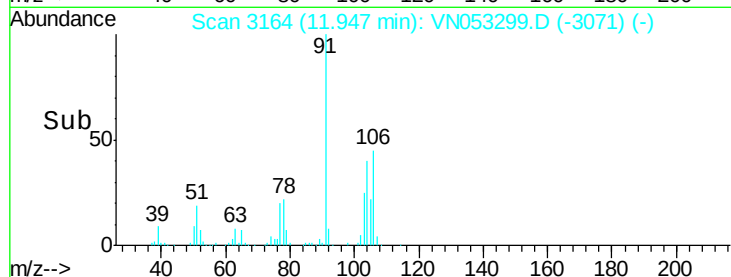
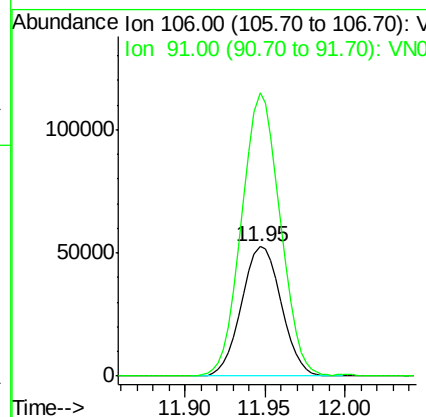
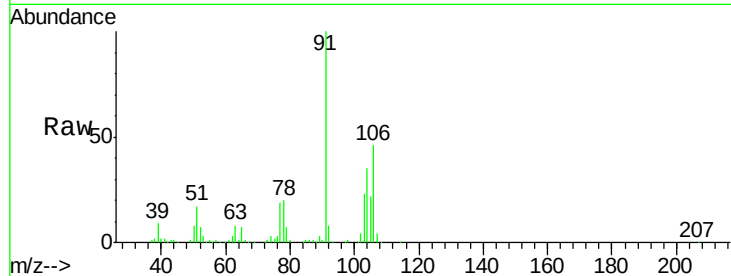
#69
o-Xylene
Concen: 4.498 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053299.D
Acq: 7 Jan 2019 12:47

Instrument :
MSVOA_N
ClientSampleId :
COMP-1-DRUM

Tot Ion:106 Resp: 89137
Ion Ratio Lower Upper
106 100
91 211.6 106.8 320.4

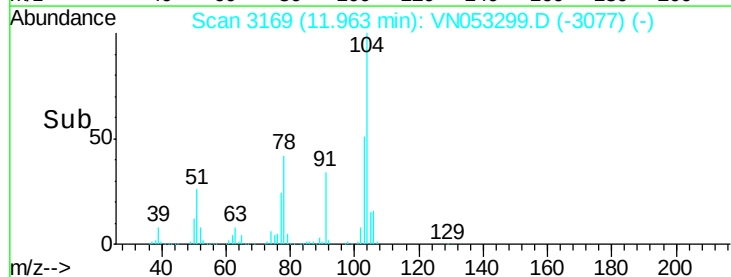
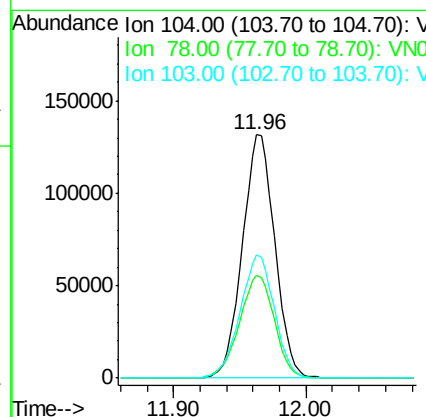
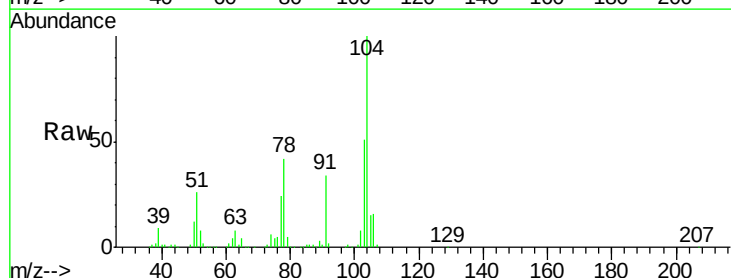
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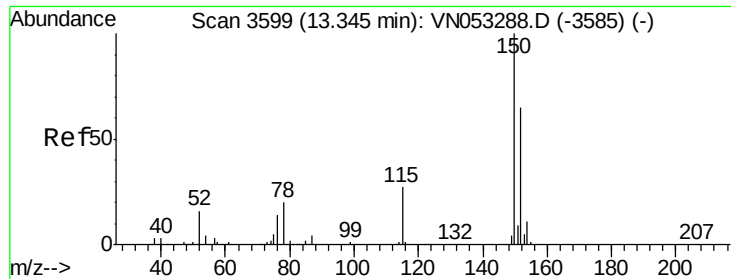
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#70
Styrene
Concen: 6.926 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053299.D
Acq: 7 Jan 2019 12:47

Tgt Ion:104 Resp: 223374
Ion Ratio Lower Upper
104 100
78 45.5 38.5 57.7
103 53.5 44.5 66.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053299.D

Acq: 7 Jan 2019 12:47

Instrument :

MSVOA_N

ClientSampleId :

COMP-1-DRUM

Tot Ion:152 Resp: 634562

Ion Ratio Lower Upper

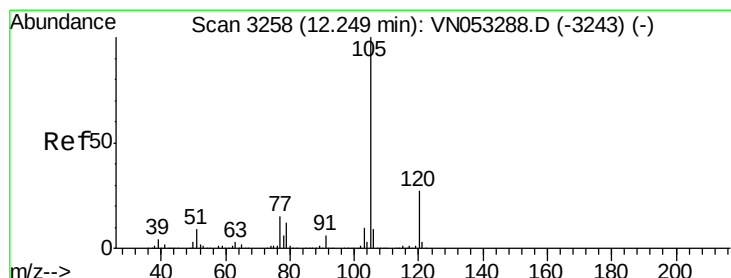
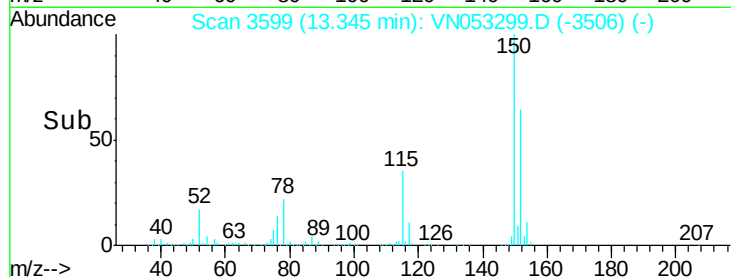
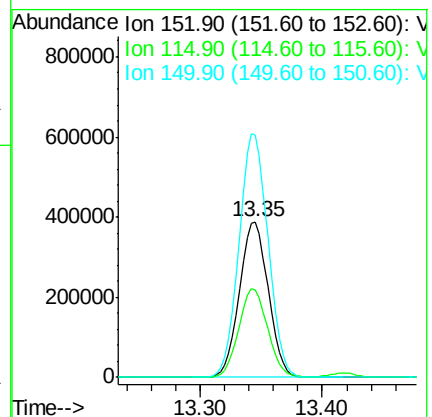
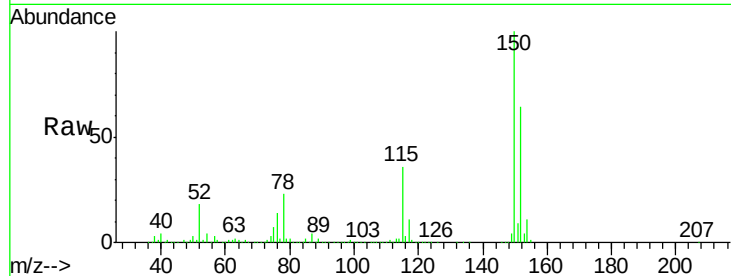
152 100

115 56.9 28.0 84.0

150 157.4 0.0 346.6

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#73

Isopropylbenzene

Concen: 0.334 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053299.D

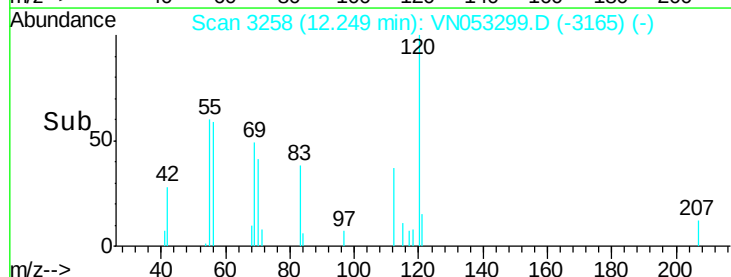
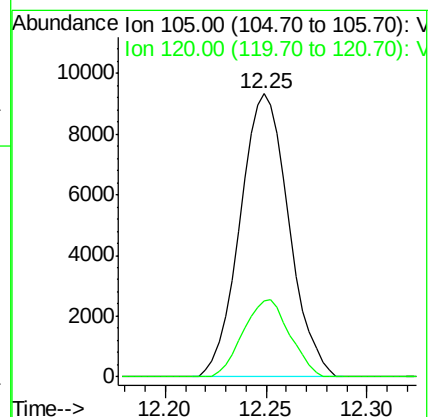
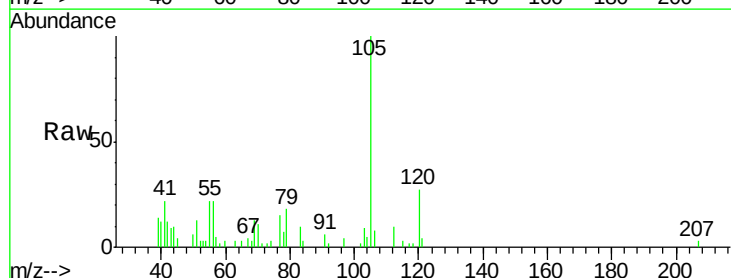
Acq: 7 Jan 2019 12:47

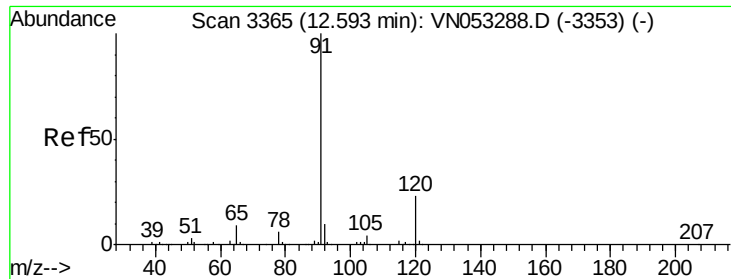
Tgt Ion:105 Resp: 15782

Ion Ratio Lower Upper

105 100

120 26.1 13.4 40.2





#78

n-propylbenzene

Concen: 0.501 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053299.D

Acq: 7 Jan 2019 12:47

Instrument :

MSVOA_N

ClientSampled :

COMP-1-DRUM

Tot Ion: 91 Resp: 26769

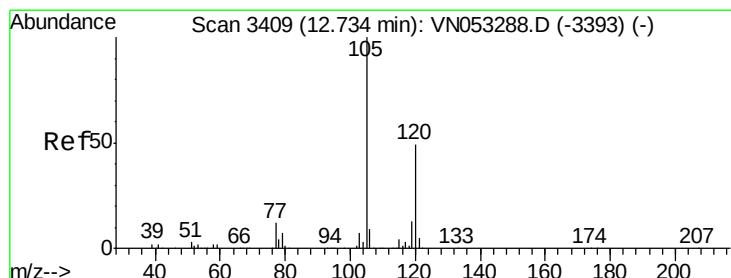
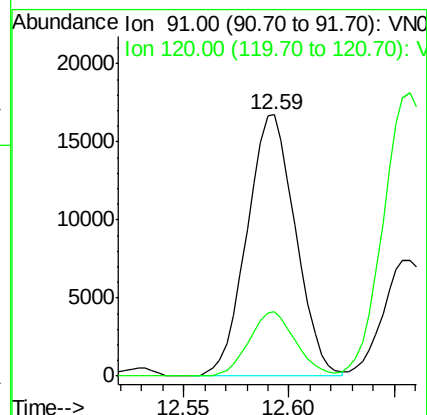
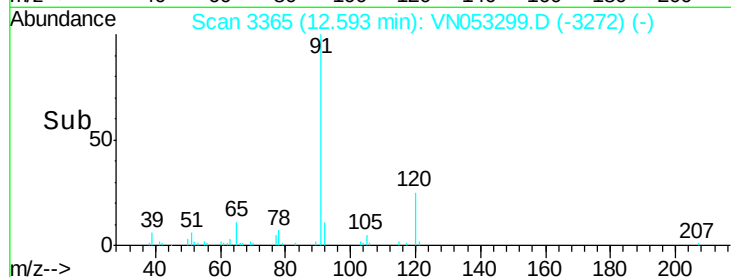
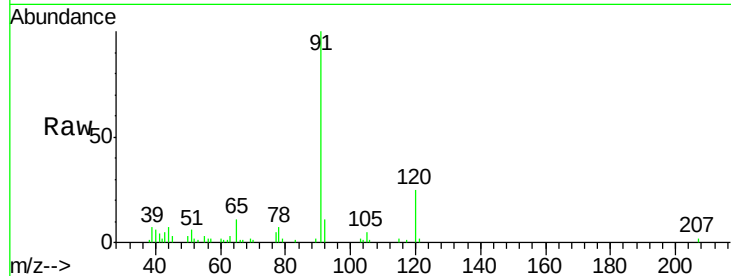
Ion Ratio Lower Upper

91 100

120 23.7 11.5 34.5

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#80

1,3,5-Trimethylbenzene

Concen: 1.944 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053299.D

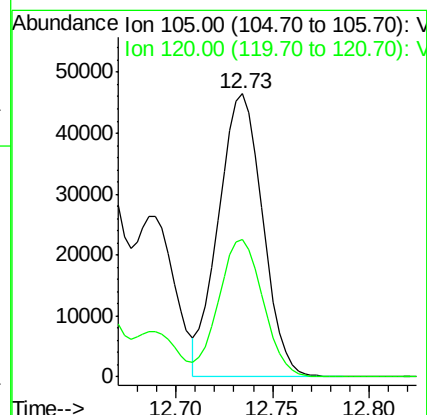
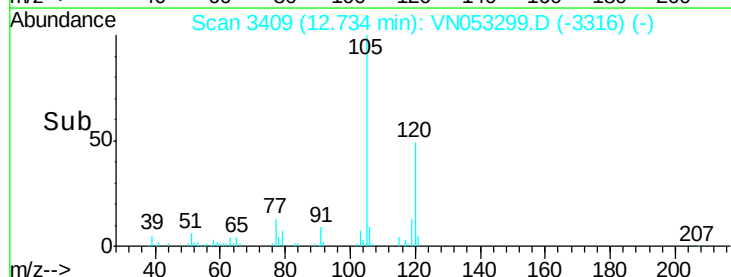
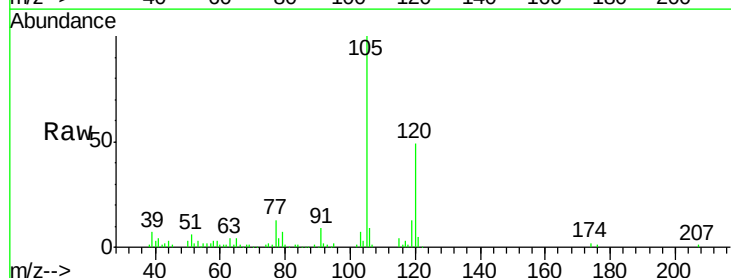
Acq: 7 Jan 2019 12:47

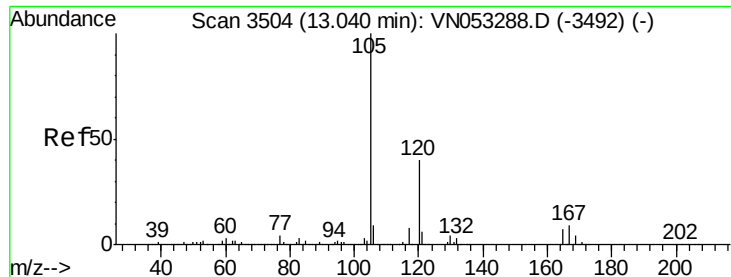
Tgt Ion: 105 Resp: 73994

Ion Ratio Lower Upper

105 100

120 48.6 24.7 74.1





#84

1,2,4-Trimethylbenzene

Concen: 4.737 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053299.D

Acq: 7 Jan 2019 12:47

Instrument :

MSVOA_N

ClientSampleId :

COMP-1-DRUM

Tot Ion:105 Resp: 183648

Ion Ratio Lower Upper

105 100

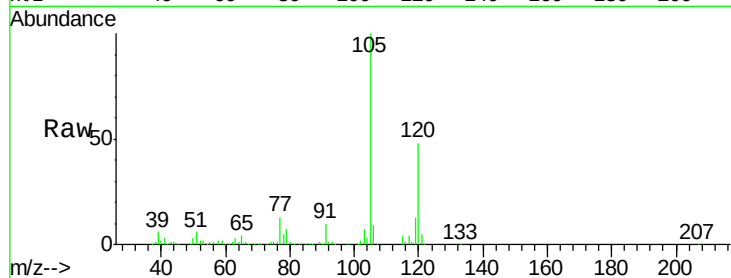
120 46.5 23.0 69.0

Manual Integrations

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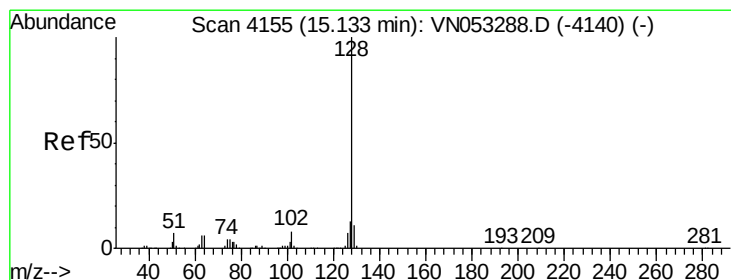
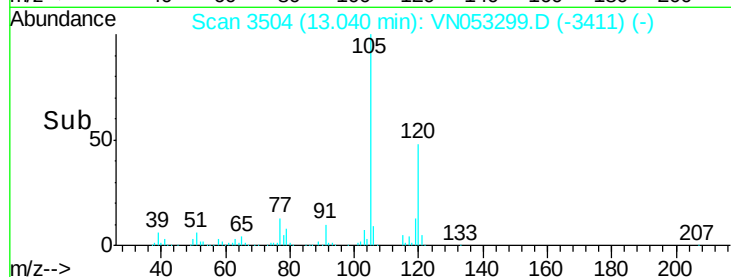
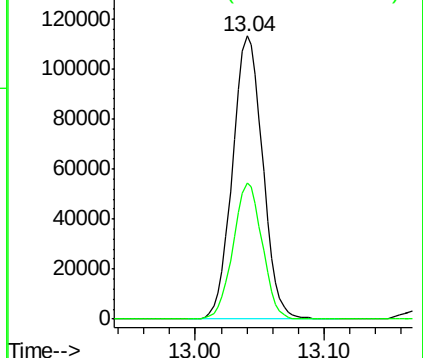
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 92.690 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053299.D

Acq: 7 Jan 2019 12:47

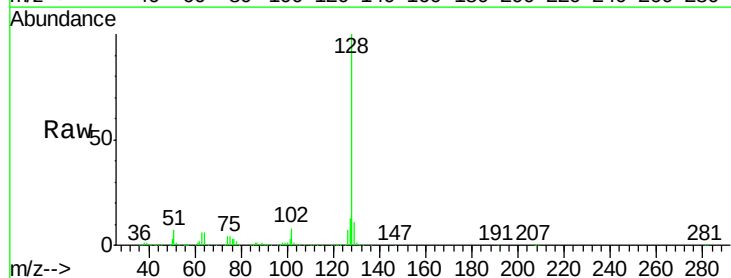
Tgt Ion:128 Resp: 1034122

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

129 11.1 8.7 13.1



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

