

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091819\
 Data File : VN058179.D
 Acq On : 18 Sep 2019 21:40
 Operator : JC/SP
 Sample : K4940-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30357

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 1:44:16 PM

Quant Time: Sep 19 18:42:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	560104	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	896448	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	823980	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	433360	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	349836	44.84	ug/l	0.00
Spiked Amount			Recovery	=	89.68%	
35) Dibromofluoromethane	7.58	113	240917	44.21	ug/l	0.00
Spiked Amount			Recovery	=	88.42%	
50) Toluene-d8	10.09	98	1115065	52.52	ug/l	0.00
Spiked Amount			Recovery	=	105.04%	
62) 4-Bromofluorobenzene	12.41	95	414473	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	1054460	398.206	ug/l	98
19) Methyl tert-butyl Ether	5.02	73	903702	52.915	ug/l #	1
22) Diisopropyl ether	5.93	45	891433	47.363	ug/l	91
25) 2-Butanone	6.81	43	261386	72.454	ug/l	100
29) Tetrahydrofuran	7.19	42	13521	6.085	ug/l	92
31) Cyclohexane	7.64	56	1208290	192.988	ug/l	98
39) Methylcyclohexane	9.07	83	1361486	217.581	ug/l	99
40) Benzene	8.03	78	10951313	554.623	ug/l #	1
52) Toluene	10.17	92	13040072	1053.768	ug/l #	51
59) 2-Hexanone	10.75	43	68852	13.930	ug/l	77
67) Ethyl Benzene	11.52	91	8845733	356.197	ug/l #	1
68) m/p-Xylenes	11.63	106	10483712	1120.865	ug/l #	41
69) o-Xylene	11.95	106	8119407	882.842	ug/l	35
73) Isopropylbenzene	12.25	105	3016194	111.194	ug/l	94
78) n-propylbenzene	12.59	91	5558175	180.319	ug/l #	51
80) 1,3,5-Trimethylbenzene	12.74	105	5865373m	255.706	ug/l	
84) 1,2,4-Trimethylbenzene	13.05	105	8714252m	381.754	ug/l	
85) sec-Butylbenzene	13.18	105	432442	16.167	ug/l #	65
86) p-Isopropyltoluene	13.30	119	309840m	13.029	ug/l	
89) n-Butylbenzene	13.62	91	646852	28.691	ug/l #	63
95) Naphthalene	15.13	128	6188251	298.951	ug/l #	57

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

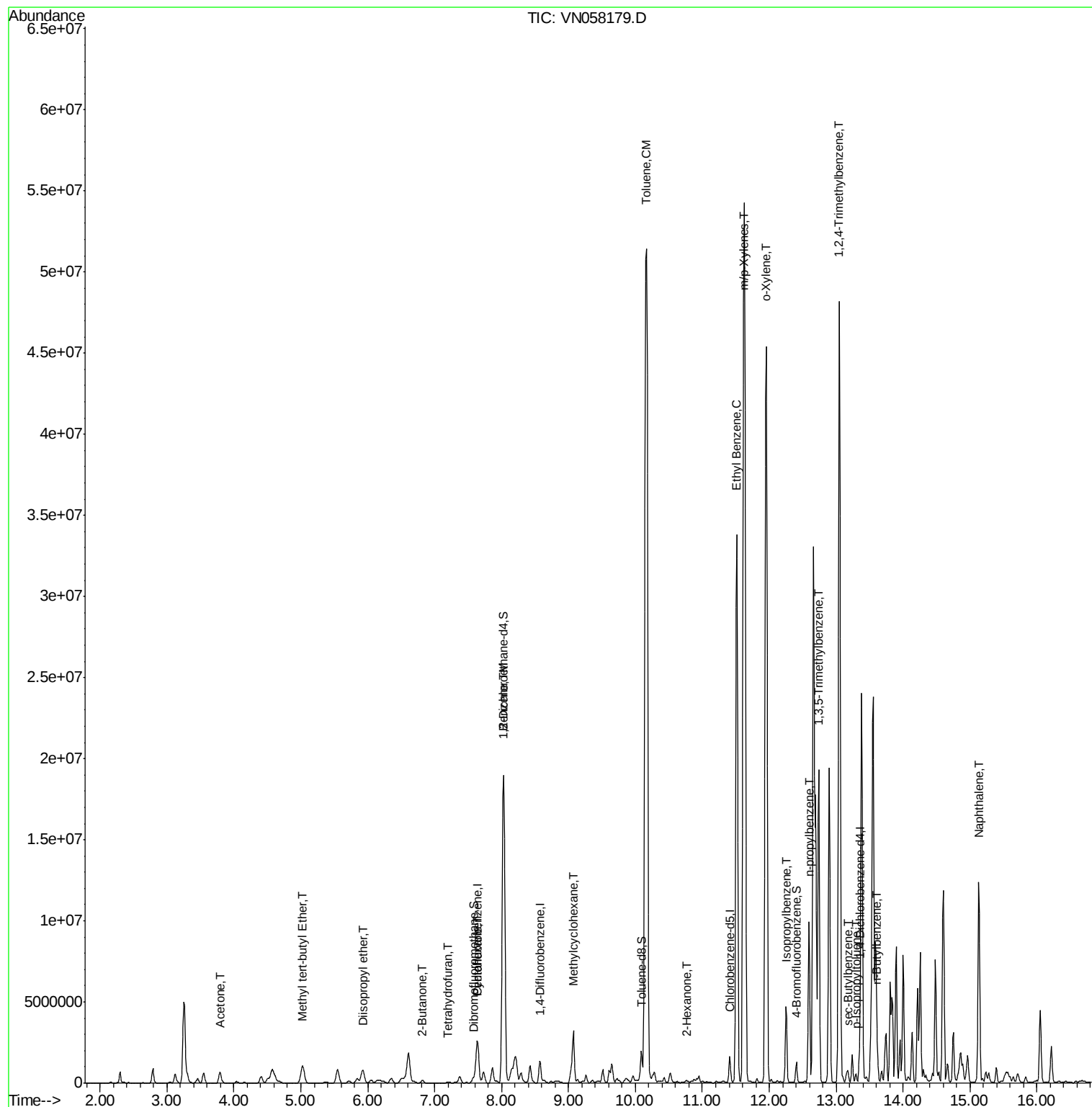
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091819\
Data File : VN058179.D
Acq On : 18 Sep 2019 21:40
Operator : JC/SP
Sample : K4940-05
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 34 Sample Multiplier: 1

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Quant Time: Sep 19 18:42:16 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058179.D

Acq: 18 Sep 2019 21:40

Instrument :

MSVOA_N

ClientSampleId :

30357

Tot Ion:168 Resp: 560104

Ion Ratio Lower Upper

168 100

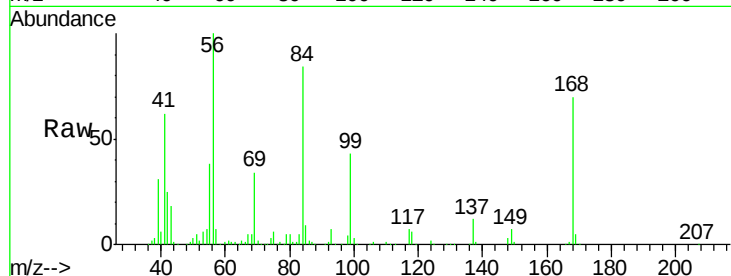
99 60.9 47.4 71.2

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

7.65

250000

200000

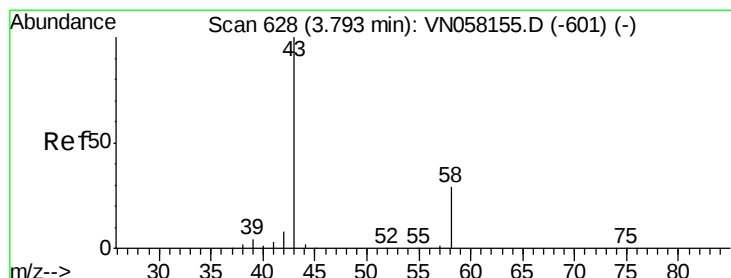
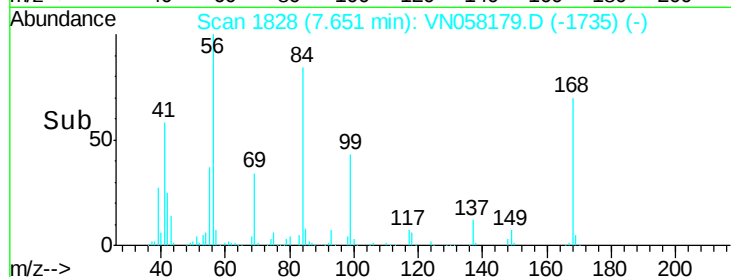
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 398.206 ug/l

RT: 3.79 min Scan# 628

Delta R.T. -0.00 min

Lab File: VN058179.D

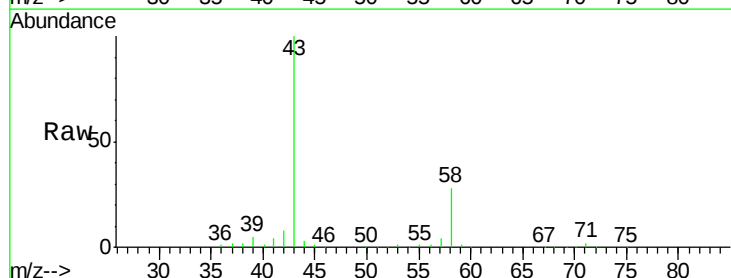
Acq: 18 Sep 2019 21:40

Tgt Ion: 43 Resp: 1054460

Ion Ratio Lower Upper

43 100

58 28.3 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.79

400000

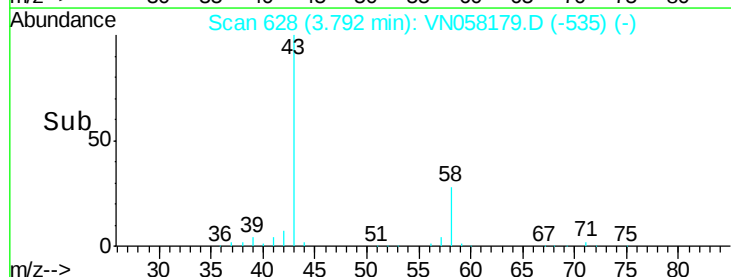
300000

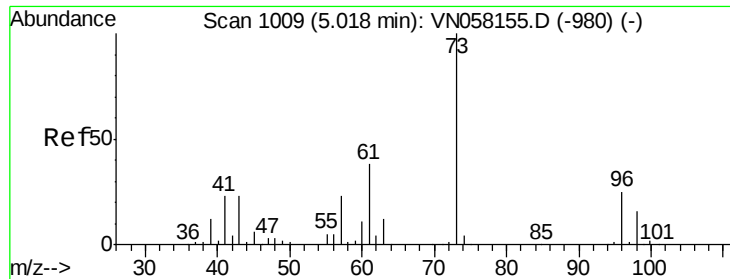
200000

100000

0

Time--> 3.60 3.70 3.80 3.90 4.00





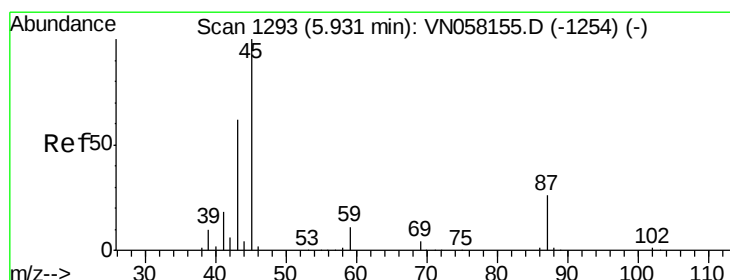
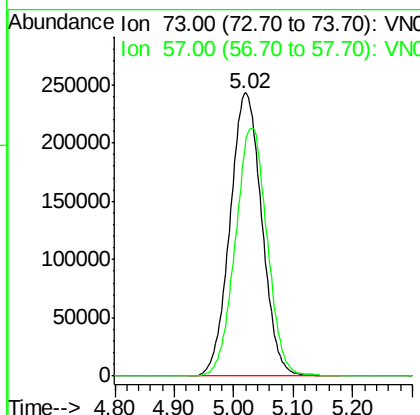
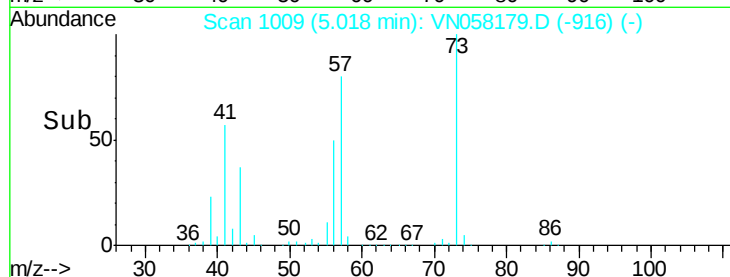
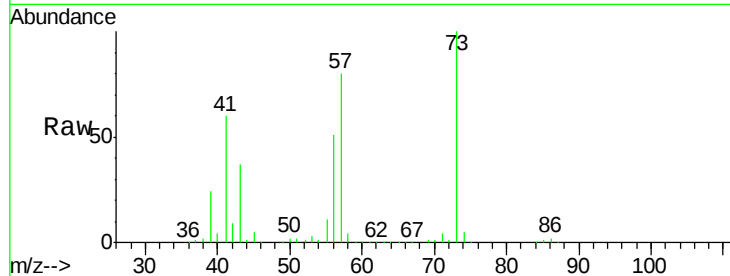
#19
Methvl tert-butvl Ether
Concen: 52.915 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. -0.00 min
Lab File: VN058179.D
Acq: 18 Sep 2019 21:40

Instrument :
MSVOA_N
ClientSampleId :
30357

Tot Ion: 73 Resp: 903702
Ion Ratio Lower Upper
73 100
57 79.7 18.1 27.1#

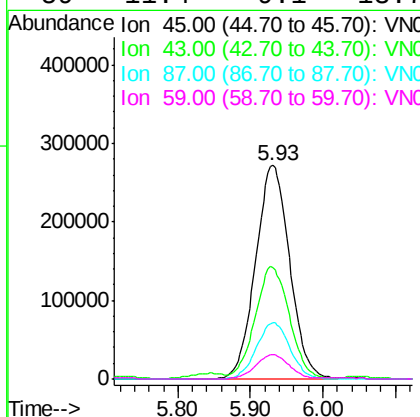
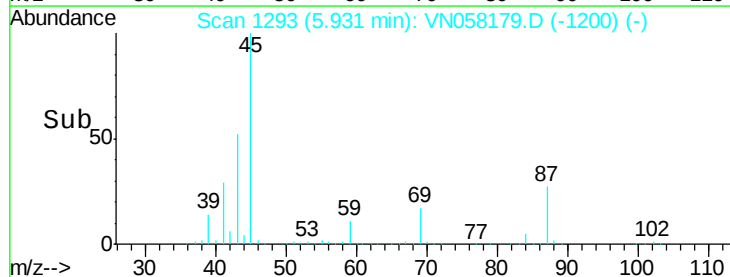
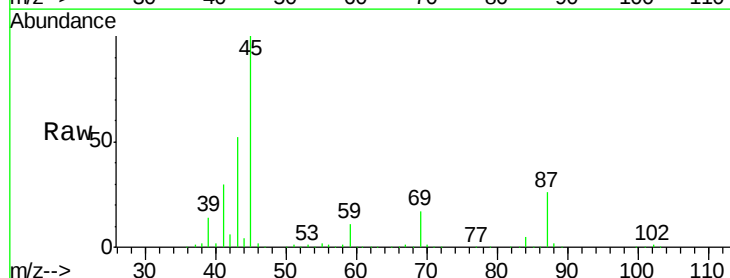
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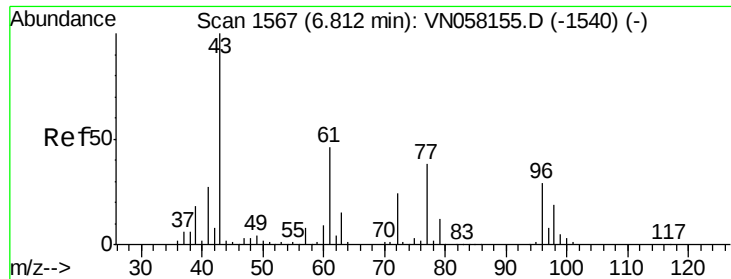
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#22
Diisopropyl ether
Concen: 47.363 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. -0.00 min
Lab File: VN058179.D
Acq: 18 Sep 2019 21:40

Tgt Ion: 45 Resp: 891433
Ion Ratio Lower Upper
45 100
43 51.5 49.7 74.5
87 26.5 20.7 31.1
59 11.4 9.1 13.7





#25

2-Butanone

Concen: 72.454 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN058179.D

Acq: 18 Sep 2019 21:40

Instrument :

MSVOA_N

ClientSampled :

30357

Tot Ion: 43 Resp: 261386

Ion Ratio Lower Upper

43 100

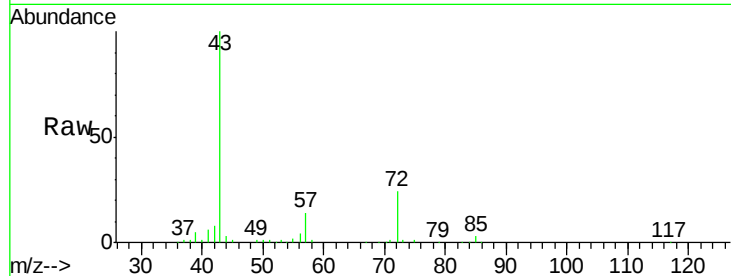
72 24.3 19.5 29.3

Manual Integrations

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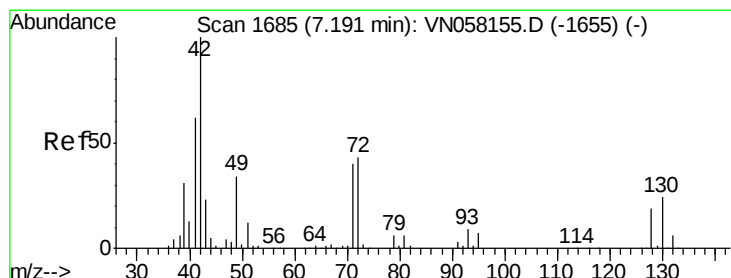
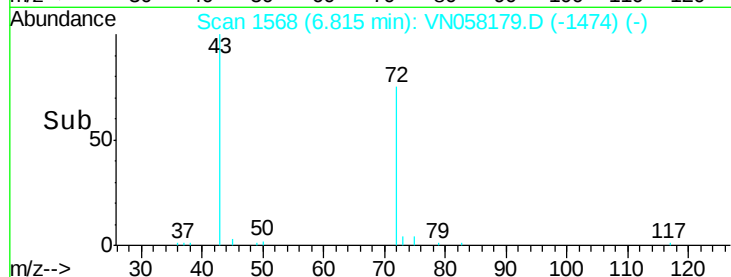
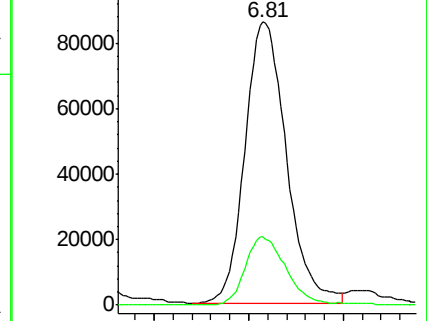
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 6.085 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN058179.D

Acq: 18 Sep 2019 21:40

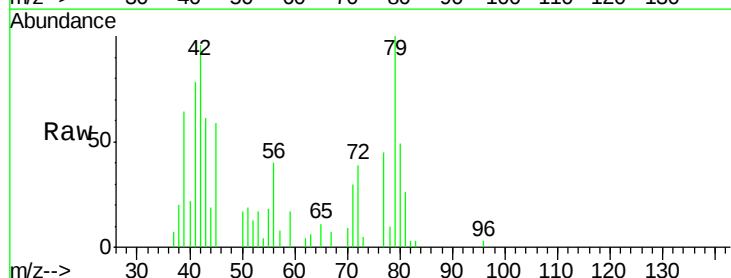
Tgt Ion: 42 Resp: 13521

Ion Ratio Lower Upper

42 100

72 49.2 33.8 50.6

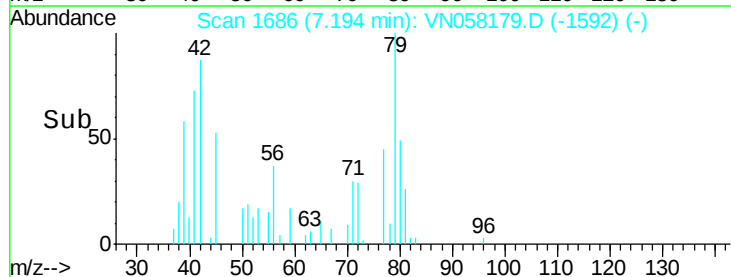
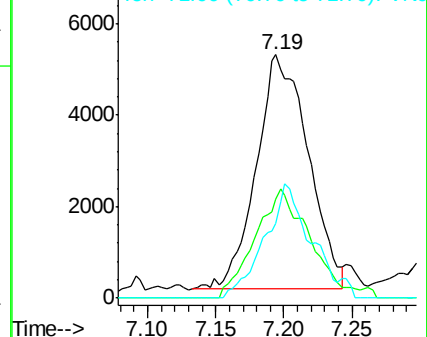
71 42.0 31.4 47.0

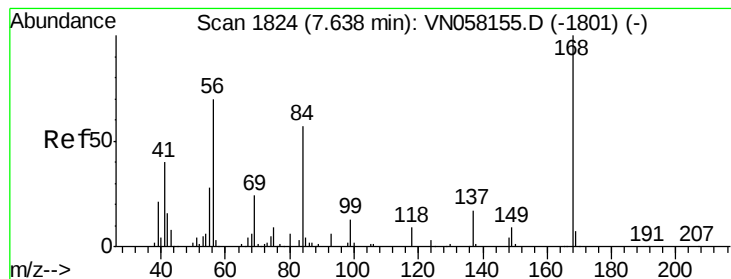


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 192.988 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.00 min

Lab File: VN058179.D

Acq: 18 Sep 2019 21:40

Instrument :

MSVOA_N

ClientSampled :

30357

Tot Ion: 56 Resp: 1208290

Ion Ratio Lower Upper

56 100

69 30.5 27.3 40.9

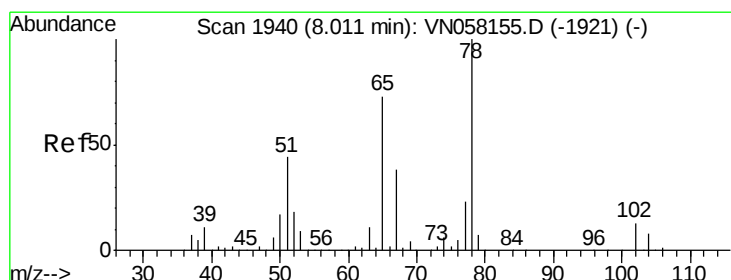
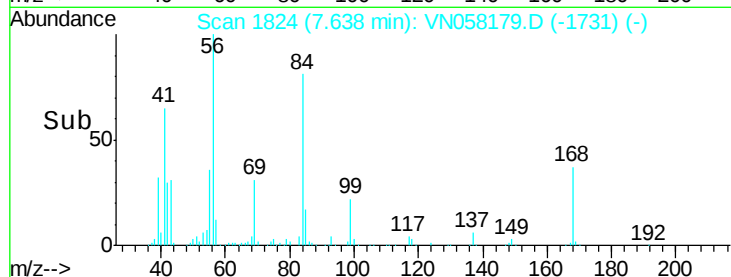
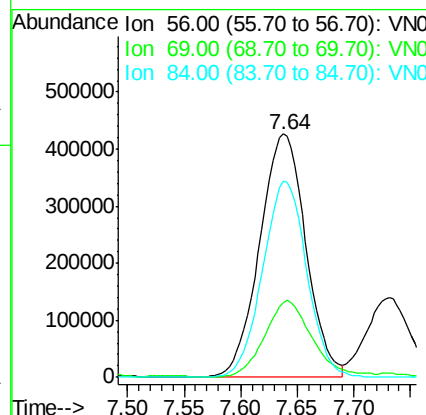
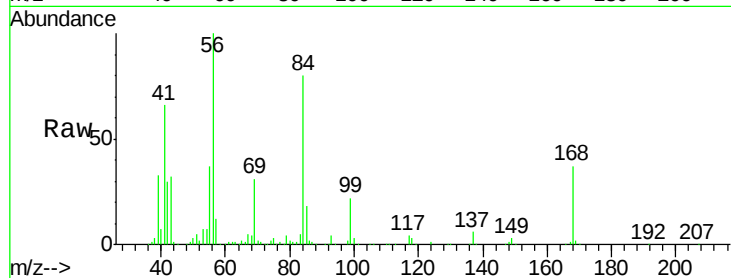
84 80.5 65.0 97.4

Manual Integrations

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#33

1,2-Dichloroethane-d4

Concen: 44.844 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058179.D

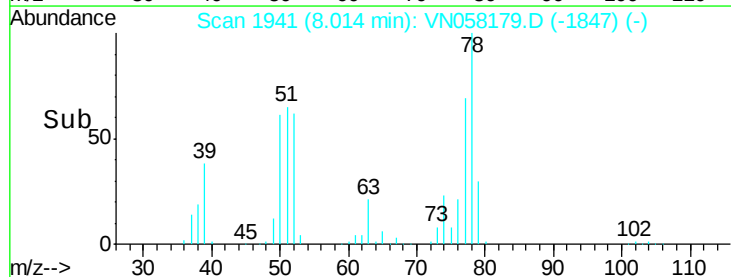
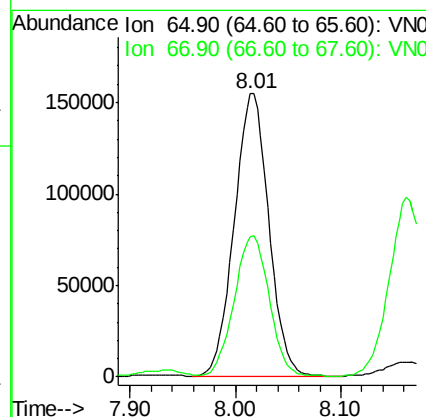
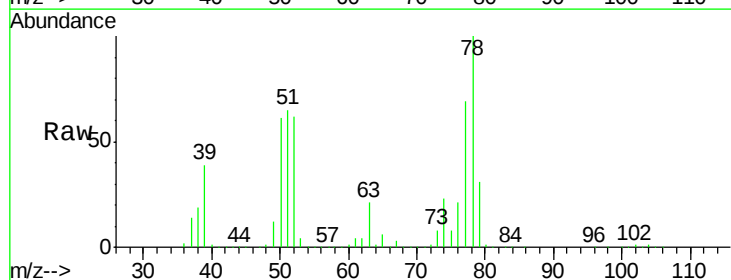
Acq: 18 Sep 2019 21:40

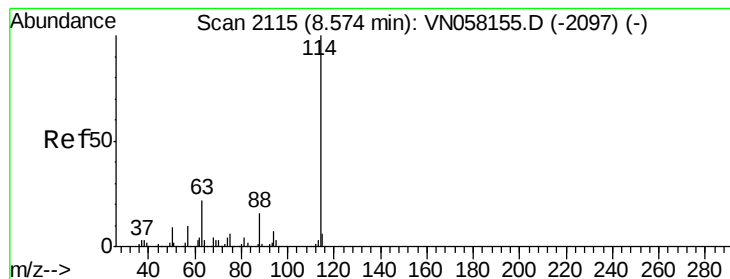
Tgt Ion: 65 Resp: 349836

Ion Ratio Lower Upper

65 100

67 50.2 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058179.D

Acq: 18 Sep 2019 21:40

Instrument :

MSVOA_N

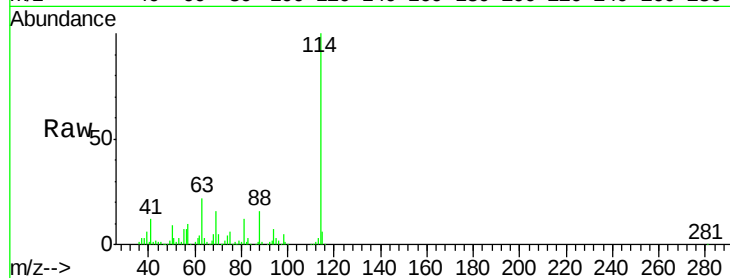
ClientSampled :

30357

Tot Ion	Ion	Ratio	Resp	Lower	Upper
114	100		896448		
63	22.1		0.0	44.2	
88	16.0		0.0	31.6	

Manual Integrations
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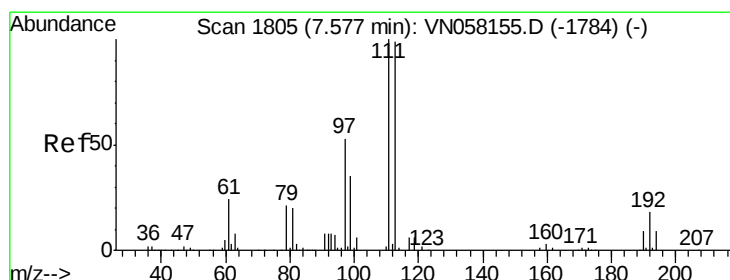
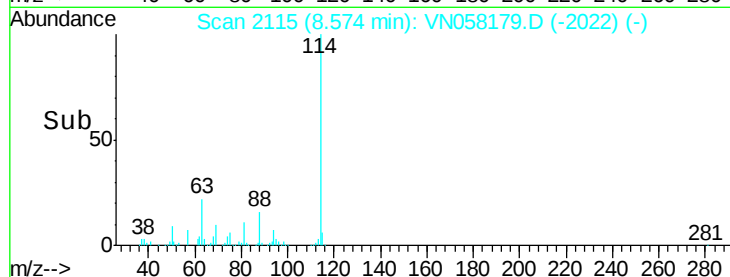
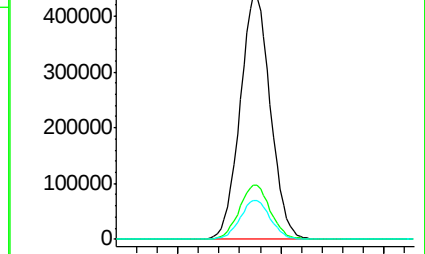
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Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 44.208 ug/l

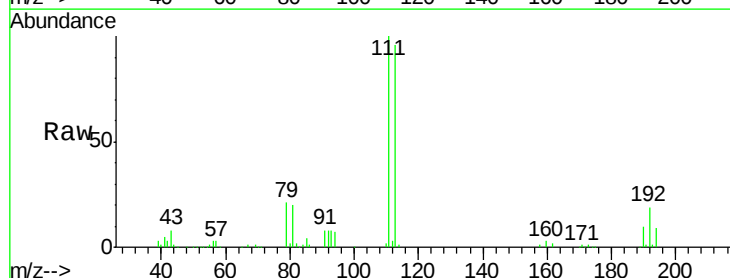
RT: 7.58 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VN058179.D

Acq: 18 Sep 2019 21:40

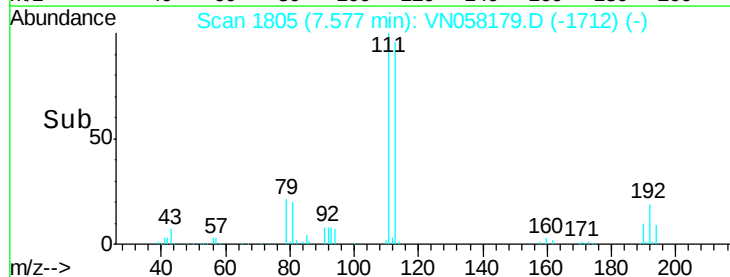
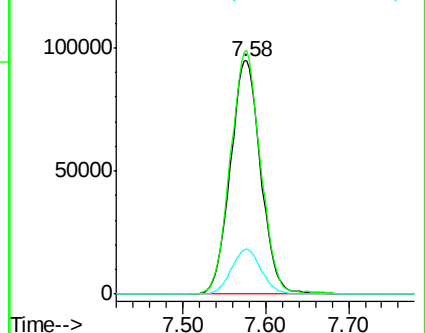
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
113	100		240917		
111	103.3		81.8	122.6	
192	18.9		14.5	21.7	

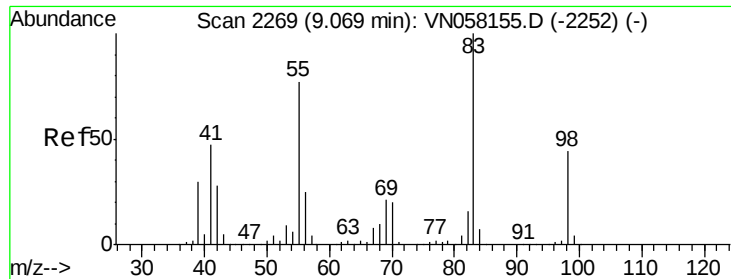


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





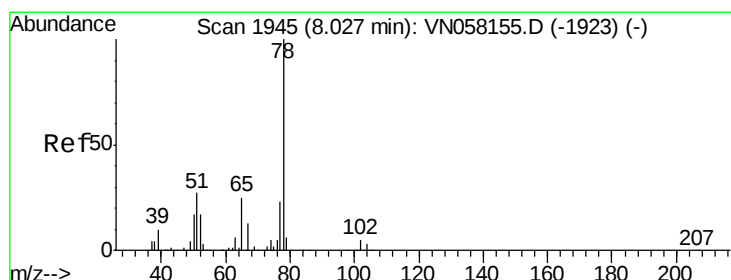
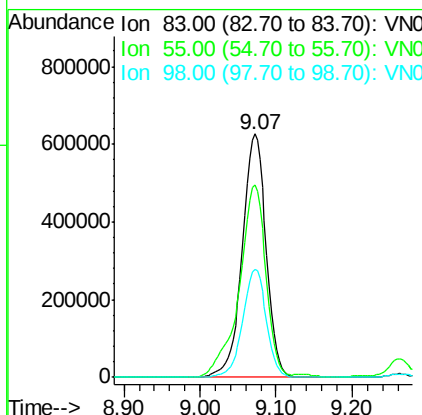
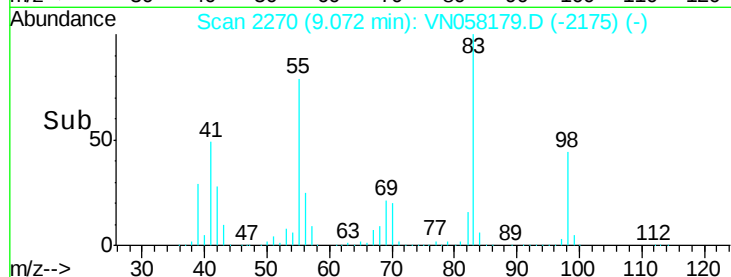
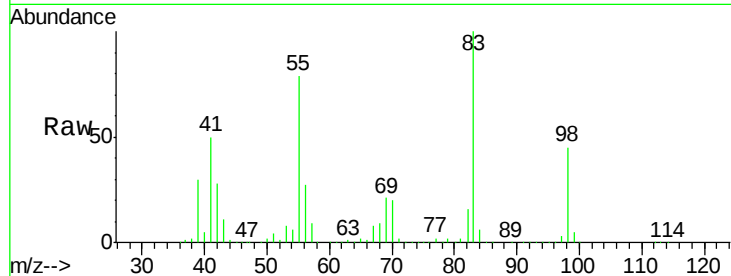
#39
Methvlcvclohexane
Concen: 217.581 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN058179.D
Acq: 18 Sep 2019 21:40

Instrument :
MSVOA_N
ClientSampled :
30357

Tot Ion: 83 Resp: 1361486
Ion Ratio Lower Upper
83 100
55 79.1 61.9 92.9
98 44.5 35.4 53.2

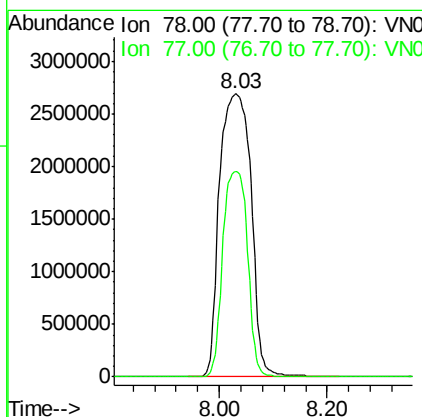
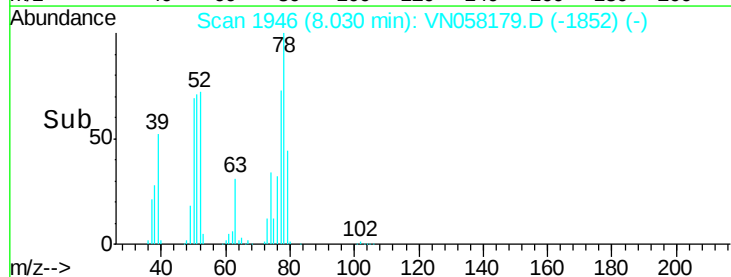
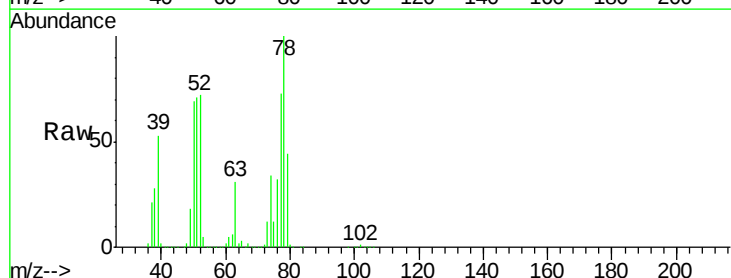
Manual Integrations
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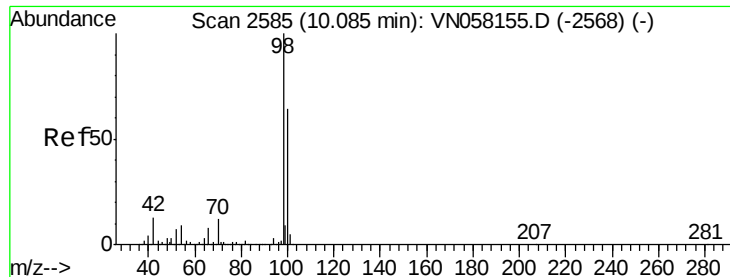
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9/20/2019 1:44:16 PM



#40
Benzene
Concen: 554.623 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN058179.D
Acq: 18 Sep 2019 21:40

Tgt Ion: 78 Resp: 10951313
Ion Ratio Lower Upper
78 100
77 72.6 18.8 28.2#





#50

Toluene-d8

Concen: 52.516 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.01 min

Lab File: VN058179.D

Acq: 18 Sep 2019 21:40

Instrument :

MSVOA_N

ClientSampled :

30357

Tot Ion: 98 Resp: 1115065

Ion Ratio Lower Upper

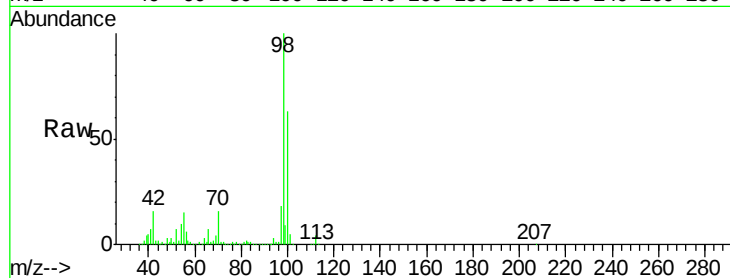
98 100

100 62.5 51.1 76.7

Manual Integrations
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Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

600000

400000

200000

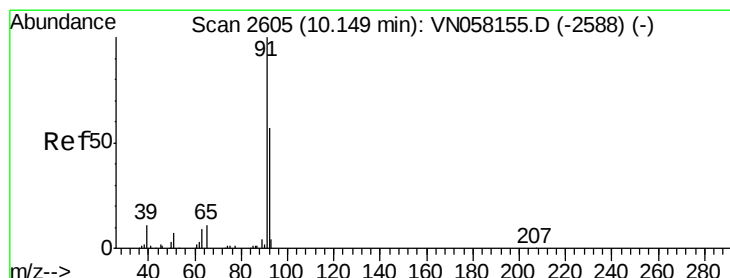
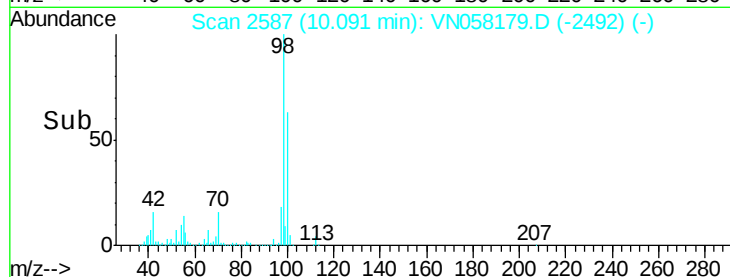
0

10.09

10.10

10.20

Time-->



#52

Toluene

Concen: 1053.768 ug/l

RT: 10.17 min Scan# 2611

Delta R.T. 0.02 min

Lab File: VN058179.D

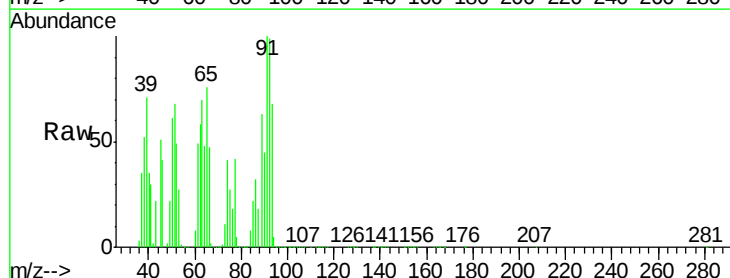
Acq: 18 Sep 2019 21:40

Tgt Ion: 92 Resp: 13040072

Ion Ratio Lower Upper

92 100

91 106.7 140.2 210.2#



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

3000000

2000000

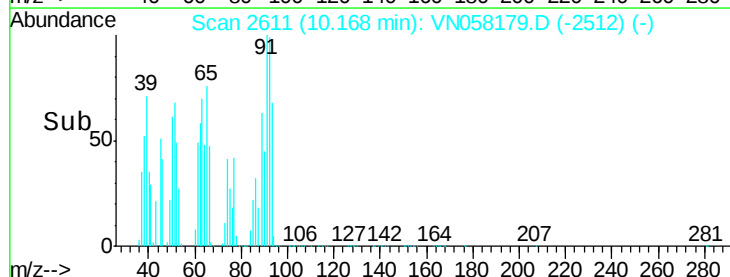
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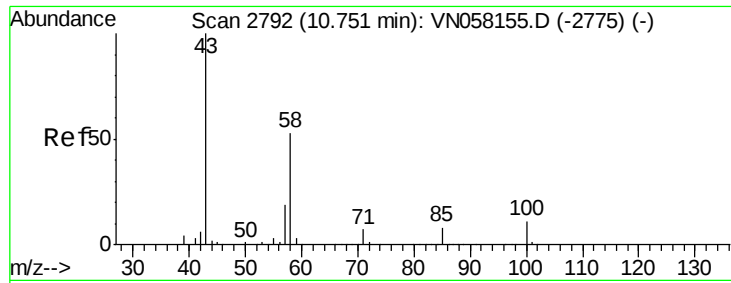
0

10.17

10.20

Time-->





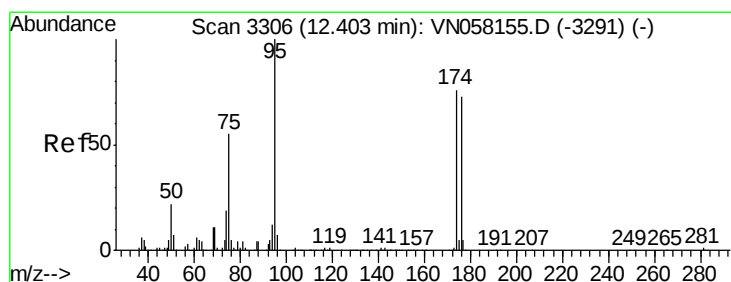
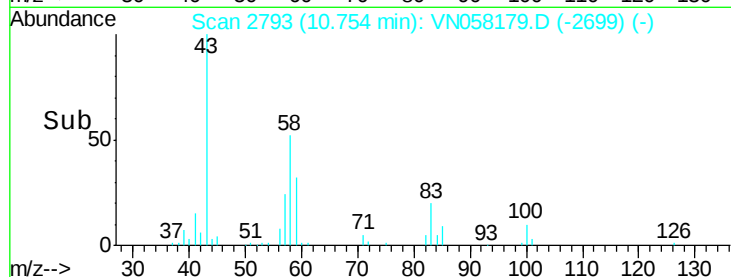
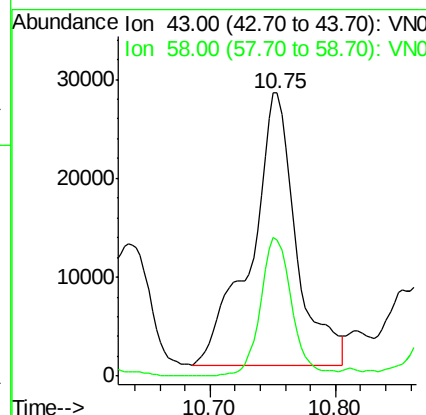
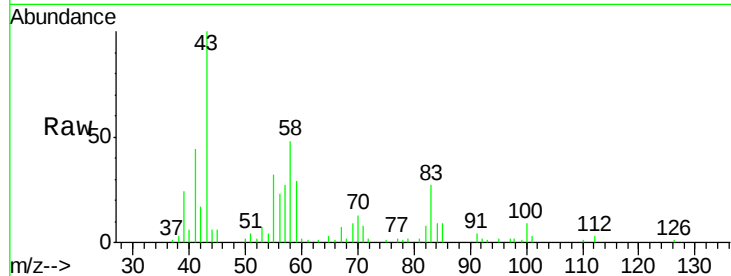
#59
2-Hexanone
Concen: 13.930 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN058179.D
Acq: 18 Sep 2019 21:40

Instrument :
MSVOA_N
ClientSampled :
30357

Tot Ion: 43 Resp: 68852
Ion Ratio Lower Upper
43 100
58 35.6 26.0 78.0

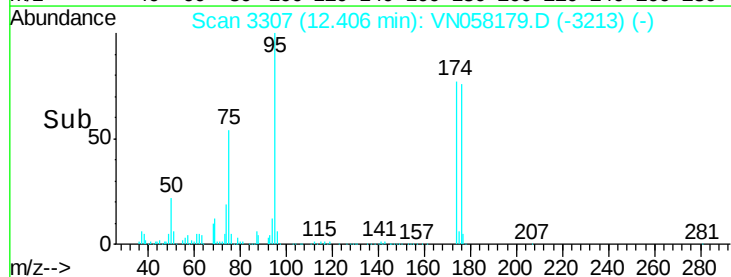
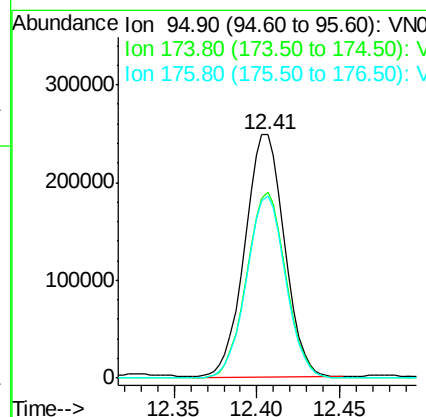
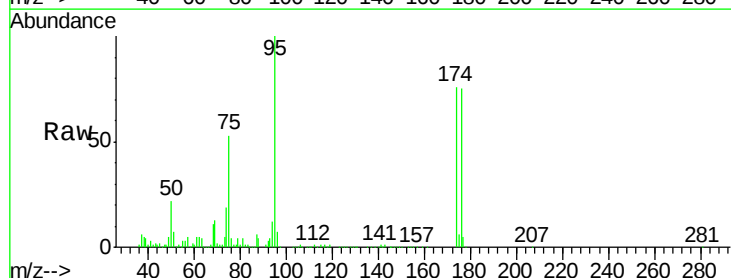
Manual Integrations
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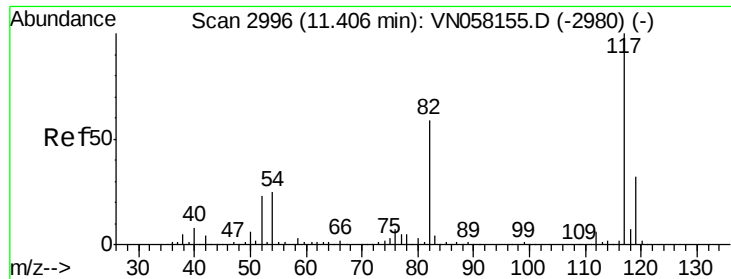
MMDadoda
9/20/2019 1:44:16 PM



#62
4-Bromofluorobenzene
Concen: 52.550 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058179.D
Acq: 18 Sep 2019 21:40

Tgt Ion: 95 Resp: 414473
Ion Ratio Lower Upper
95 100
174 75.6 0.0 152.2
176 73.8 0.0 148.0





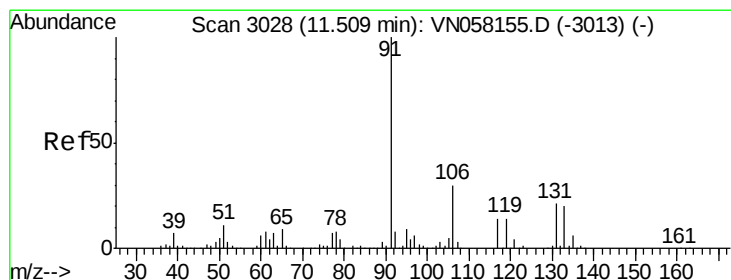
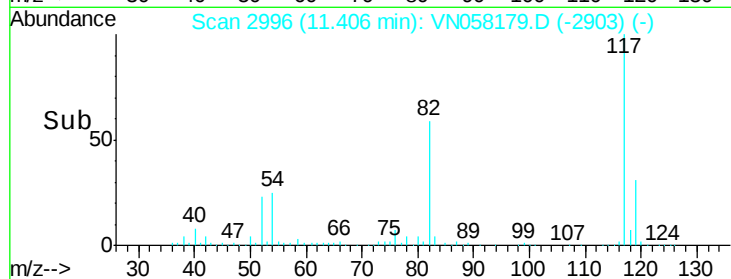
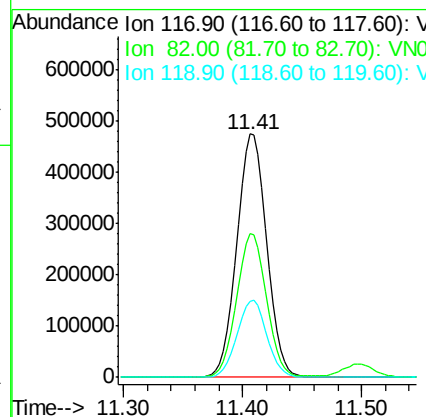
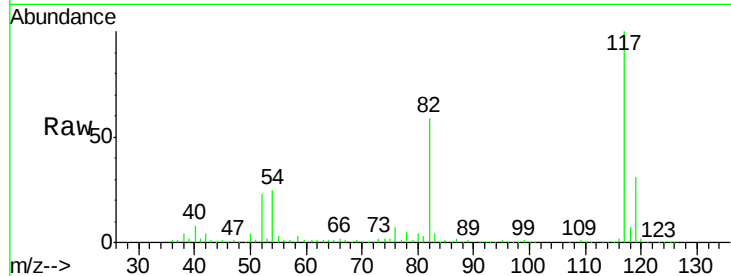
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058179.D
Acq: 18 Sep 2019 21:40

Instrument :
MSVOA_N
ClientSampled :
30357

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.9	46.9	70.3
119	31.3	25.3	37.9

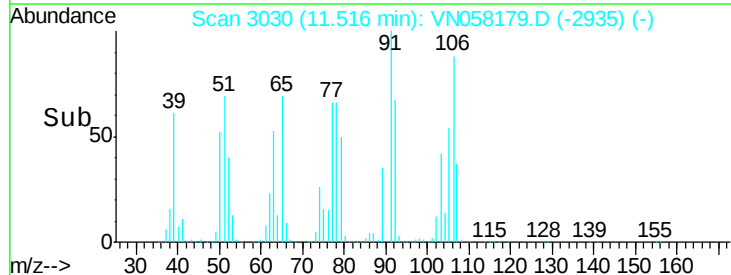
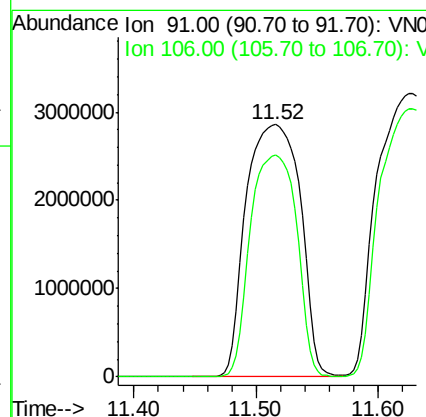
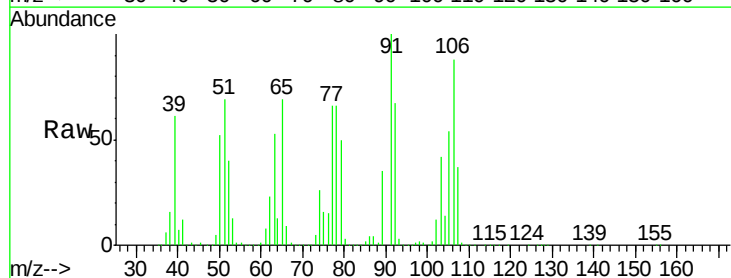
Manual Integrations
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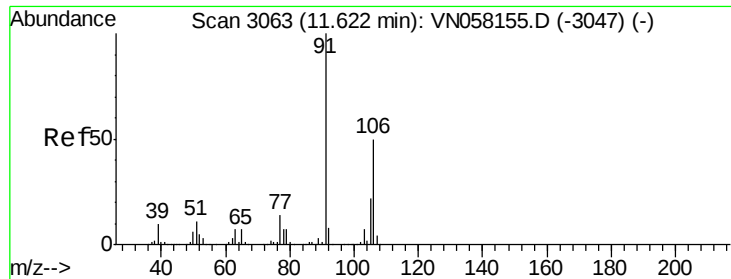
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#67
Ethyl Benzene
Concen: 356.197 ug/l
RT: 11.52 min Scan# 3030
Delta R.T. 0.01 min
Lab File: VN058179.D
Acq: 18 Sep 2019 21:40

Tgt Ion	Ratio	Lower	Upper
91	100		
106	88.0	24.0	36.0





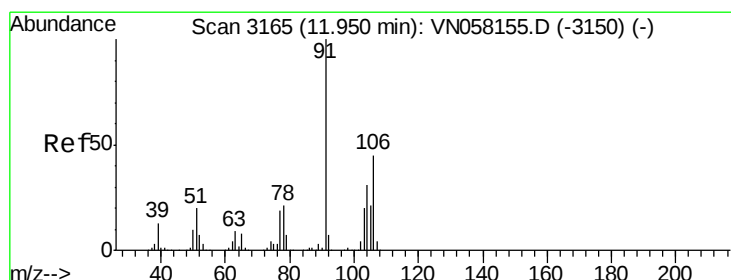
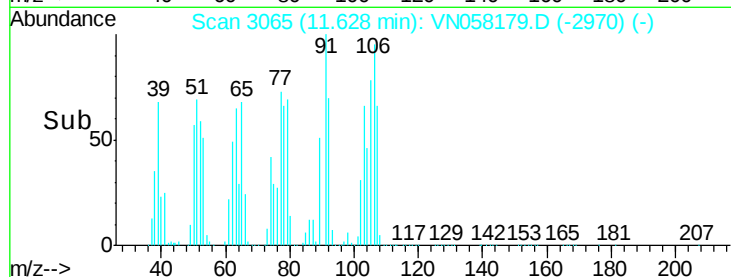
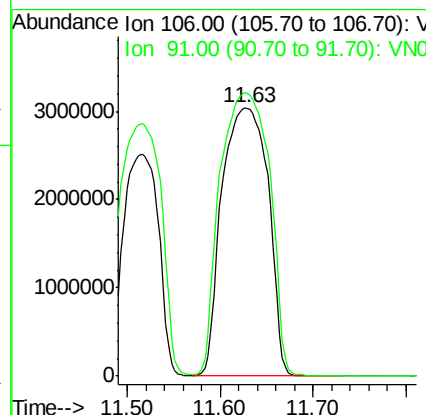
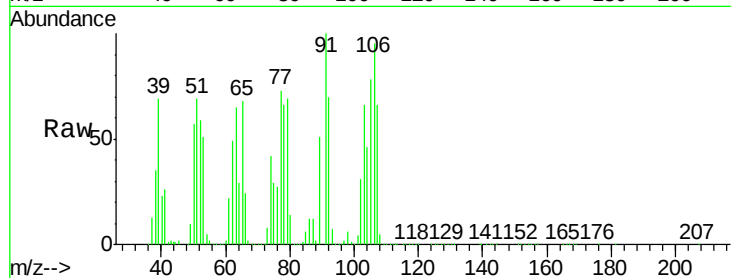
#68
m/p-Xylenes
Concen: 1120.865 ug/l
RT: 11.63 min Scan# 3065
Delta R.T. 0.01 min
Lab File: VN058179.D
Acq: 18 Sep 2019 21:40

Instrument :
MSVOA_N
ClientSampleId :
30357

Tot Ion:106 Resp:10483712
Ion Ratio Lower Upper
106 100
91 113.4 163.6 245.4#

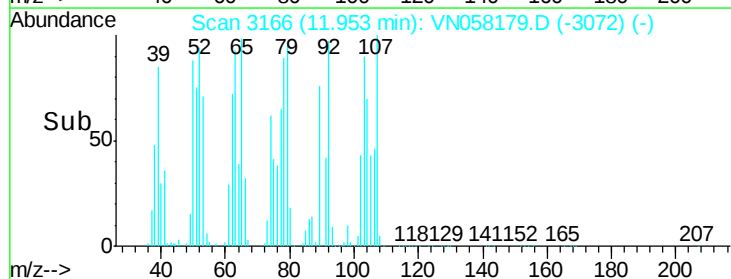
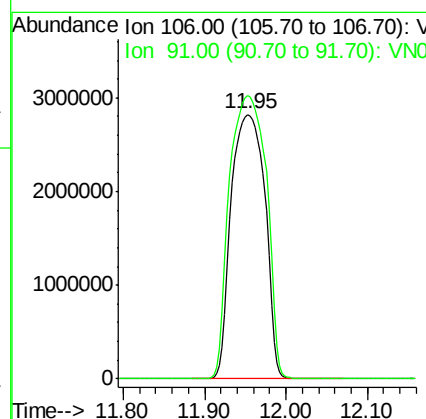
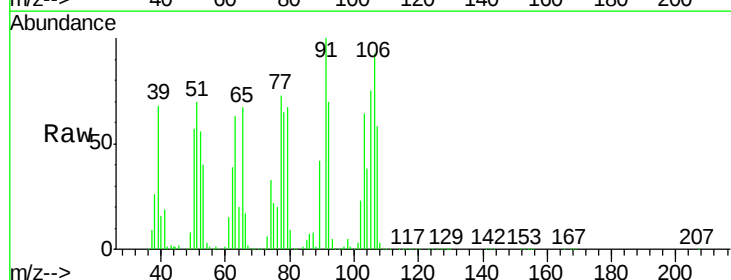
Manual Integrations
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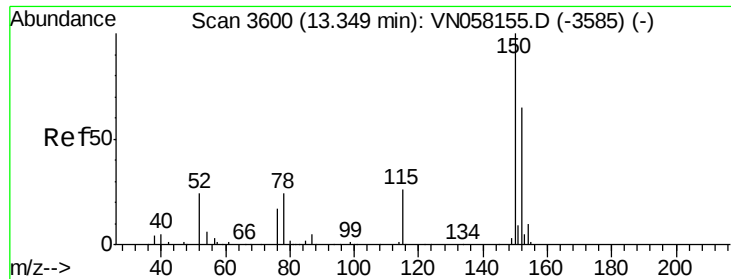
MMDadoda
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#69
o-Xylene
Concen: 882.842 ug/l
RT: 11.95 min Scan# 3166
Delta R.T. 0.00 min
Lab File: VN058179.D
Acq: 18 Sep 2019 21:40

Tgt Ion:106 Resp: 8119407
Ion Ratio Lower Upper
106 100
91 117.5 111.8 335.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058179.D

Acq: 18 Sep 2019 21:40

Instrument :

MSVOA_N

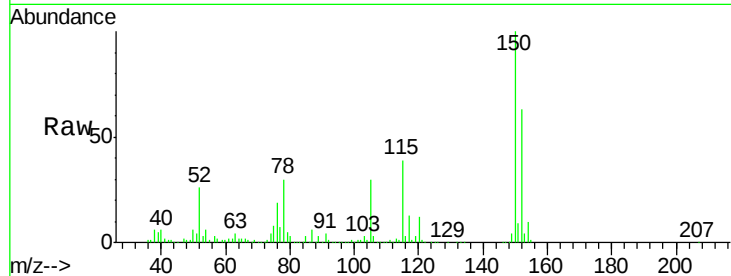
ClientSampled :

30357

Tot Ion	Ratio	Lower	Upper
152	100		
115	0.0	30.1	90.3#
150	156.0	0.0	346.4

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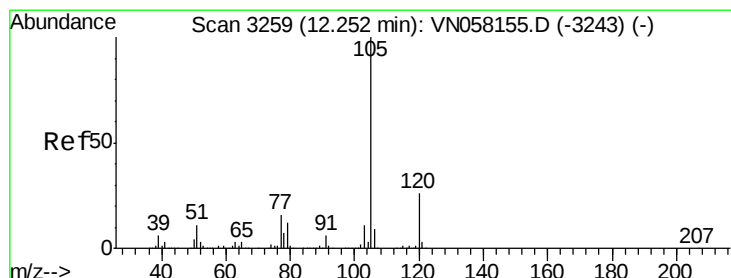
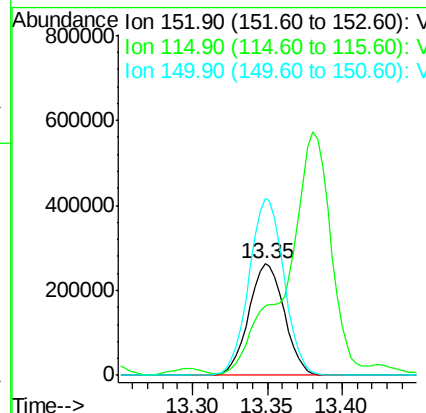
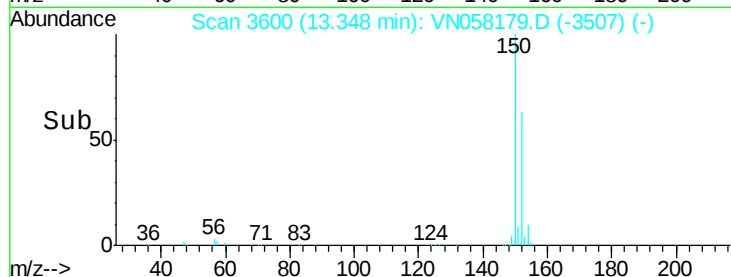


Abundance

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: 111.194 ug/l

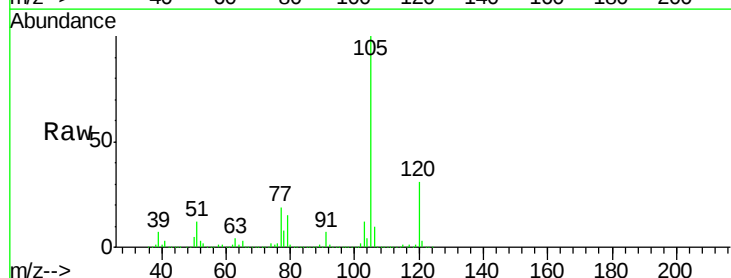
RT: 12.25 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN058179.D

Acq: 18 Sep 2019 21:40

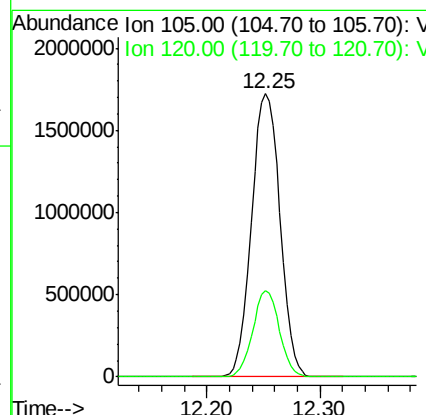
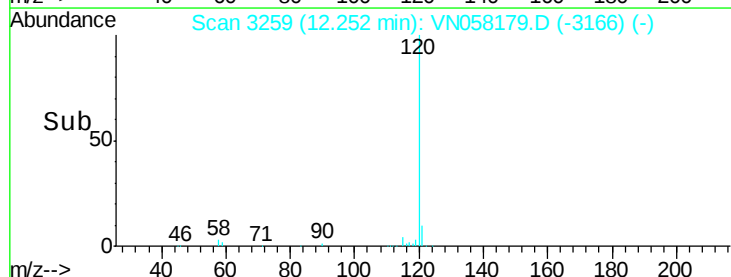
Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.3	12.8	38.3

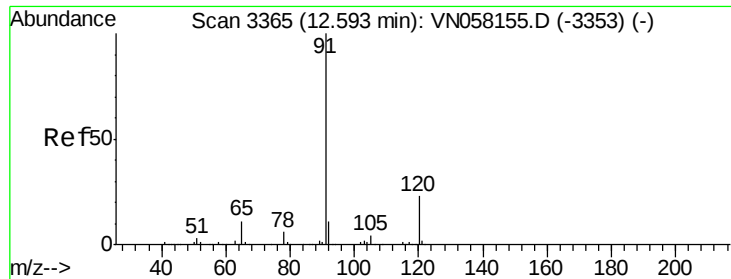


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 180.319 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058179.D

Acq: 18 Sep 2019 21:40

Instrument :

MSVOA_N

ClientSampled :

30357

Tot Ion: 91 Resp: 5558175

Ion Ratio Lower Upper

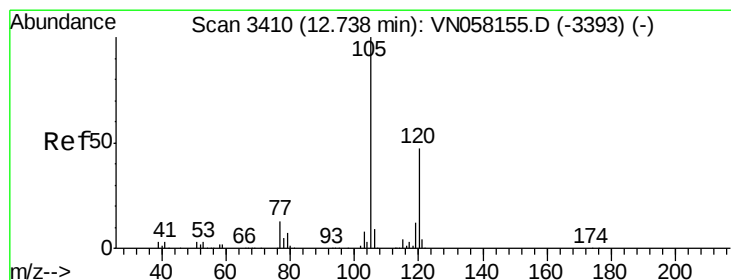
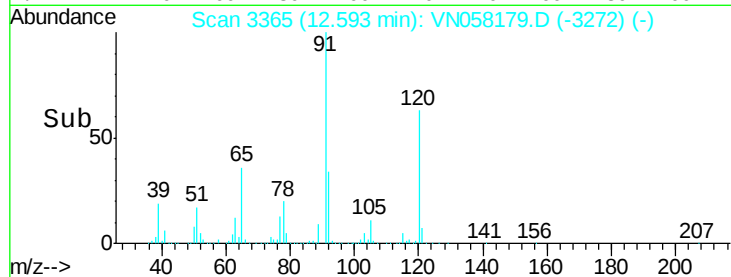
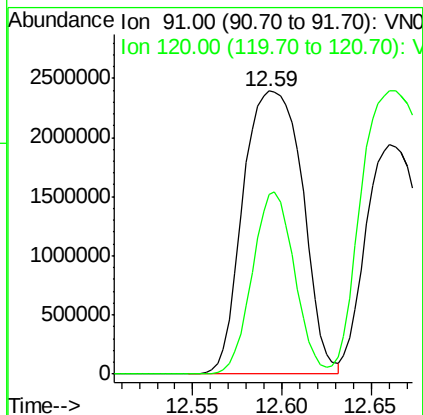
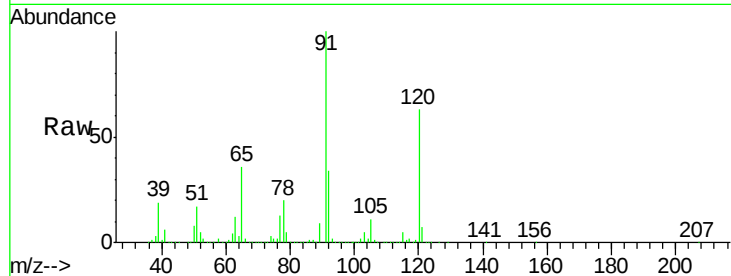
91 100

120 45.8 11.1 33.3#

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#80

1,3,5-Trimethylbenzene

Concen: 255.706 ug/l m

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058179.D

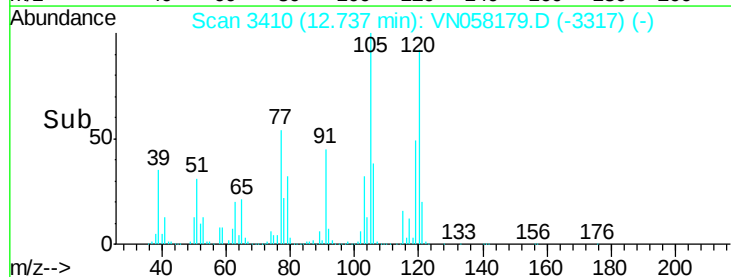
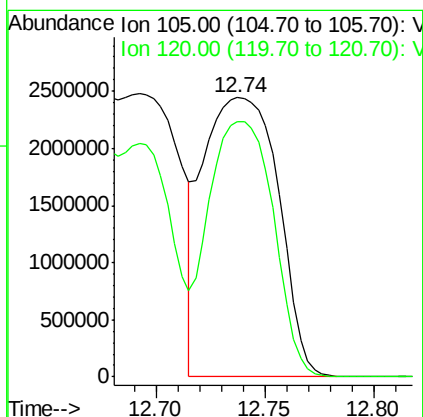
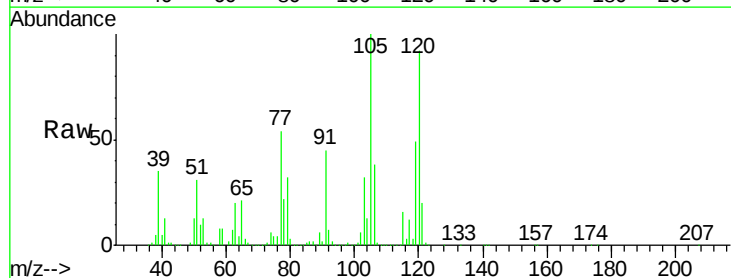
Acq: 18 Sep 2019 21:40

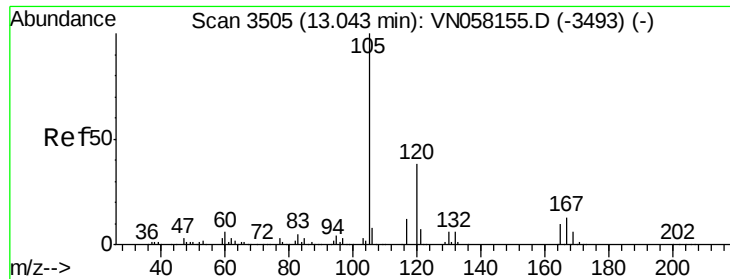
Tgt Ion: 105 Resp: 5865373

Ion Ratio Lower Upper

105 100

120 71.2 23.4 70.0#





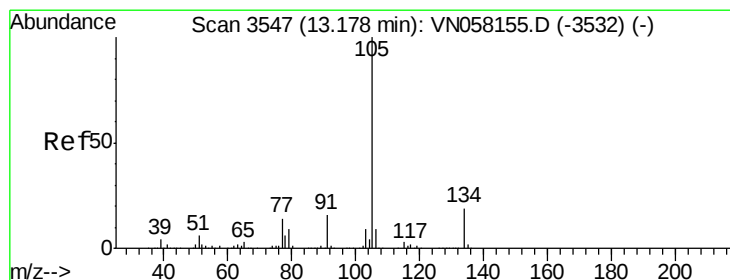
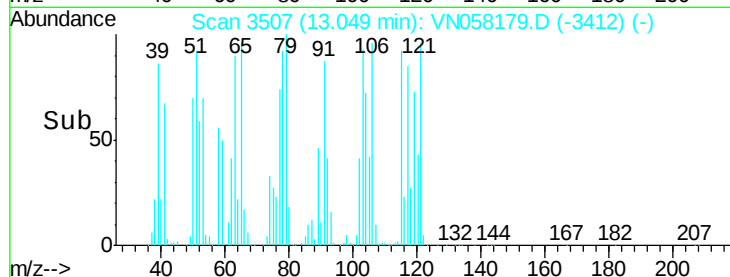
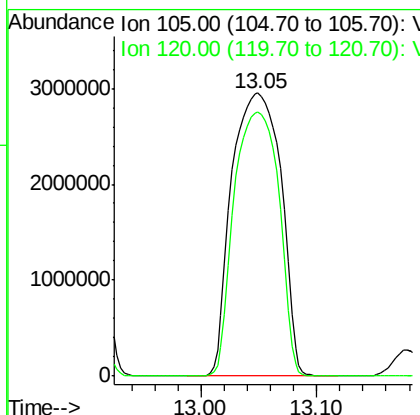
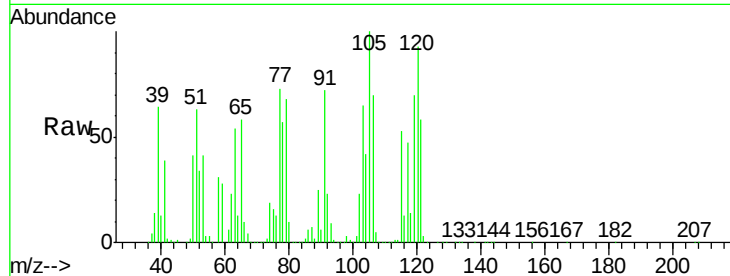
#84
 1,2,4-Trimethylbenzene
 Concen: 381.754 ug/l m
 RT: 13.05 min Scan# 3507
 Delta R.T. 0.01 min
 Lab File: VN058179.D
 Acq: 18 Sep 2019 21:40

Instrument :
 MSVOA_N
 ClientSampleId :
 30357

Tot Ion:105 Resp: 8714252
 Ion Ratio Lower Upper
 105 100
 120 47.9 22.1 66.5

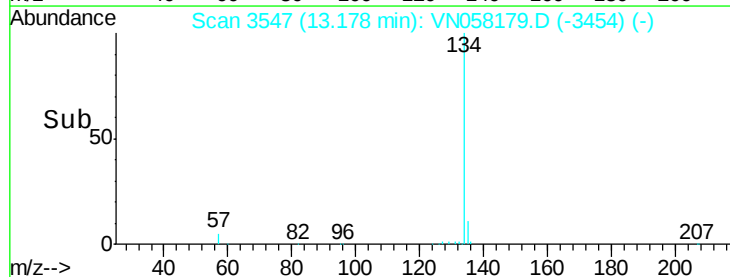
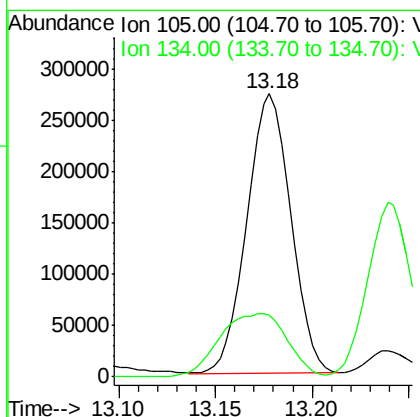
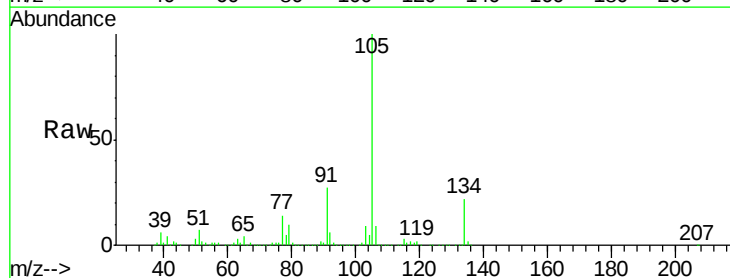
Manual Integrations
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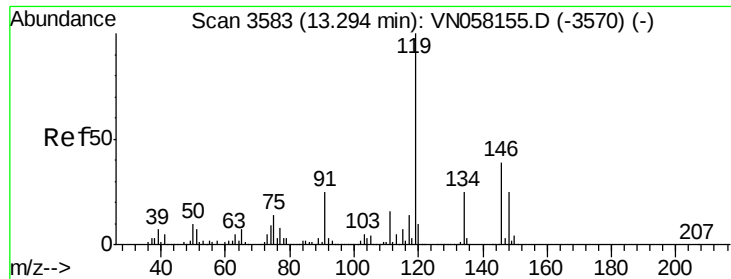
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#85
 sec-Butylbenzene
 Concen: 16.167 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN058179.D
 Acq: 18 Sep 2019 21:40

Tgt Ion:105 Resp: 432442
 Ion Ratio Lower Upper
 105 100
 134 34.9 9.5 28.5#





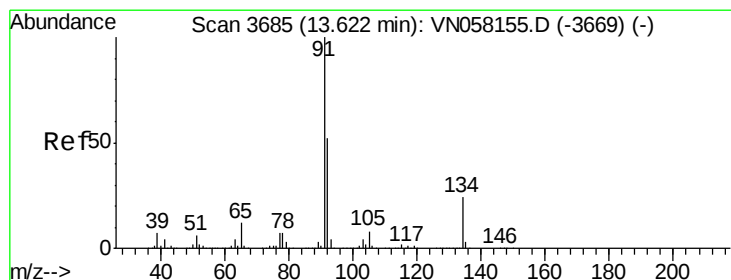
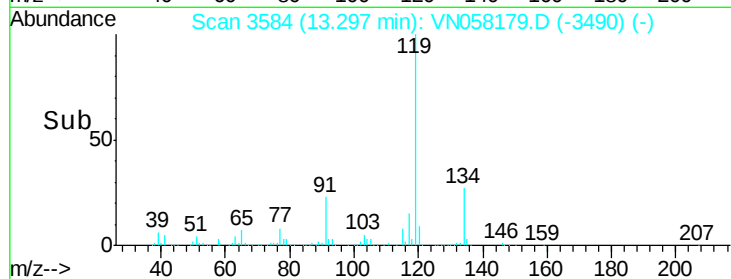
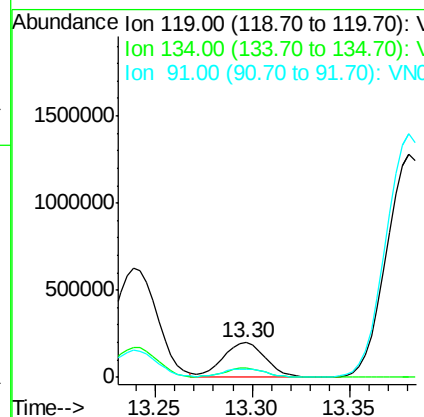
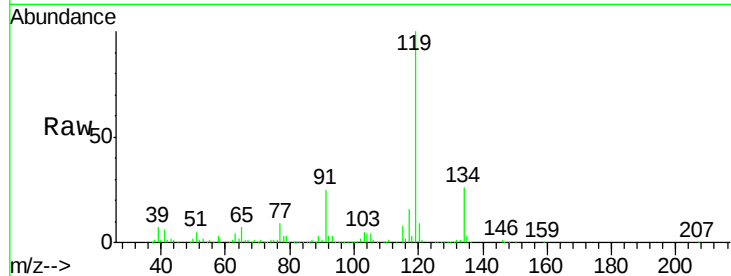
#86
p-Isopropyltoluene
Concen: 13.029 ug/l m
RT: 13.30 min Scan# 3584
Delta R.T. 0.00 min
Lab File: VN058179.D
Acq: 18 Sep 2019 21:40

Instrument :
MSVOA_N
ClientSampled :
30357

Tot Ion	Ratio	Lower	Upper
119	100		
134	85.9	12.7	38.0#
91	75.2	12.3	36.8#

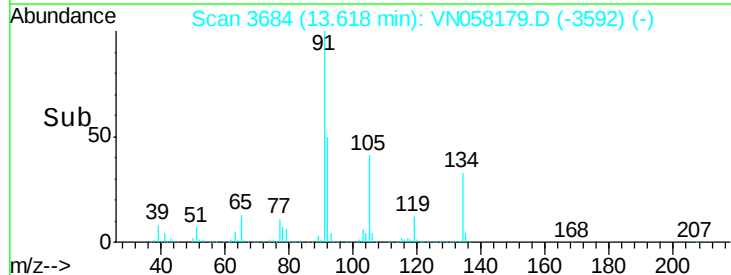
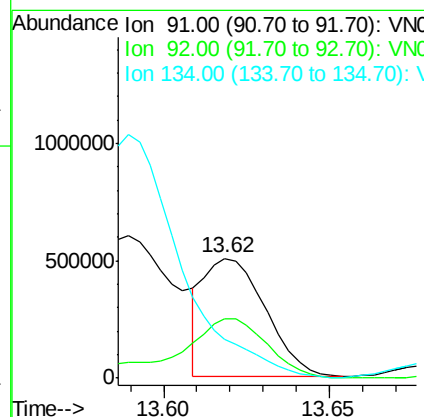
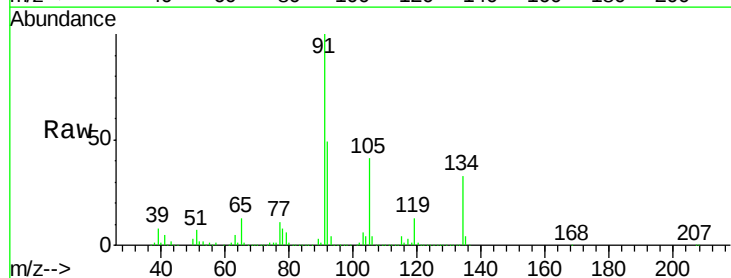
Manual Integrations
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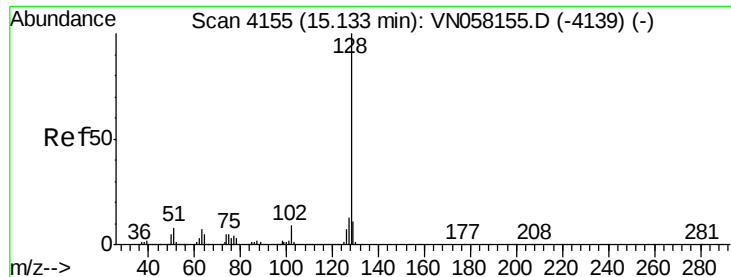
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#89
n-Butylbenzene
Concen: 28.691 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. -0.00 min
Lab File: VN058179.D
Acq: 18 Sep 2019 21:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	73.2	25.7	77.0
134	0.0	11.8	35.4#





#95
Naphthalene
Concen: 298.951 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN058179.D
Acq: 18 Sep 2019 21:40

Instrument :
MSVOA_N
ClientSampleId :
30357

Tot Ion	Ratio	Lower	Upper
128	100		
127	30.1	10.2	15.2#
129	26.5	8.6	12.8#

Manual Integrations
APPROVED

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