

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX121020\
 Data File : VX019862.D
 Acq On : 11 Dec 2020 06:36
 Operator : JC/MD
 Sample : L4987-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 32834

Manual Integrations
 APPROVED

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 12/11/2020 5:36:36 PM

Quant Time: Dec 11 07:13:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	318458	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	526943	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	480102	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	233901	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	202659	48.42	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.84%
35) Dibromofluoromethane	5.46	113	161655	47.47	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.94%
50) Toluene-d8	8.70	98	647828	49.83	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.66%
62) 4-Bromofluorobenzene	11.12	95	238022	48.10	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	96.20%

Target Compounds

						Qvalue
11) Tert butyl alcohol	3.01	59	9765	8.828	ug/l #	73
16) Acetone	2.42	43	3820093	2428.209	ug/l	98
18) Methyl Acetate	2.75	43	5271	1.369	ug/l	98
19) Methyl tert-butyl Ether	3.17	73	233770	22.000	ug/l	98
22) Diisopropyl ether	3.82	45	180762	18.143	ug/l #	82
25) 2-Butanone	4.63	43	148039	61.239	ug/l	99
29) Tetrahydrofuran	5.09	42	10206	6.553	ug/l	93
31) Cyclohexane	5.55	56	11531	2.215	ug/l	98
37) Ethyl Acetate	4.79	43	31773	6.609	ug/l	100
39) Methylcyclohexane	7.44	83	24289	4.342	ug/l	97
40) Benzene	6.11	78	3410264	234.457	ug/l	98
52) Toluene	8.77	92	11420654	1255.396	ug/l	80
67) Ethyl Benzene	10.24	91	5728570	337.407	ug/l	95
68) m/p-Xylenes	10.35	106	8189661	1280.105	ug/l	82
69) o-Xylene	10.68	106	4993437	811.387	ug/l	88
73) Isopropylbenzene	11.00	105	335461	20.992	ug/l	100
78) n-propylbenzene	11.34	91	1271875	69.686	ug/l	99
80) 1,3,5-Trimethylbenzene	11.49	105	2485366	184.283	ug/l	98
84) 1,2,4-Trimethylbenzene	11.79	105	9598272	706.515	ug/l	92
85) sec-Butylbenzene	11.93	105	68147m	4.513	ug/l	
86) p-Isopropyltoluene	12.05	119	64237m	4.641	ug/l	
95) Naphthalene	13.82	128	2037203	131.933	ug/l	100

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

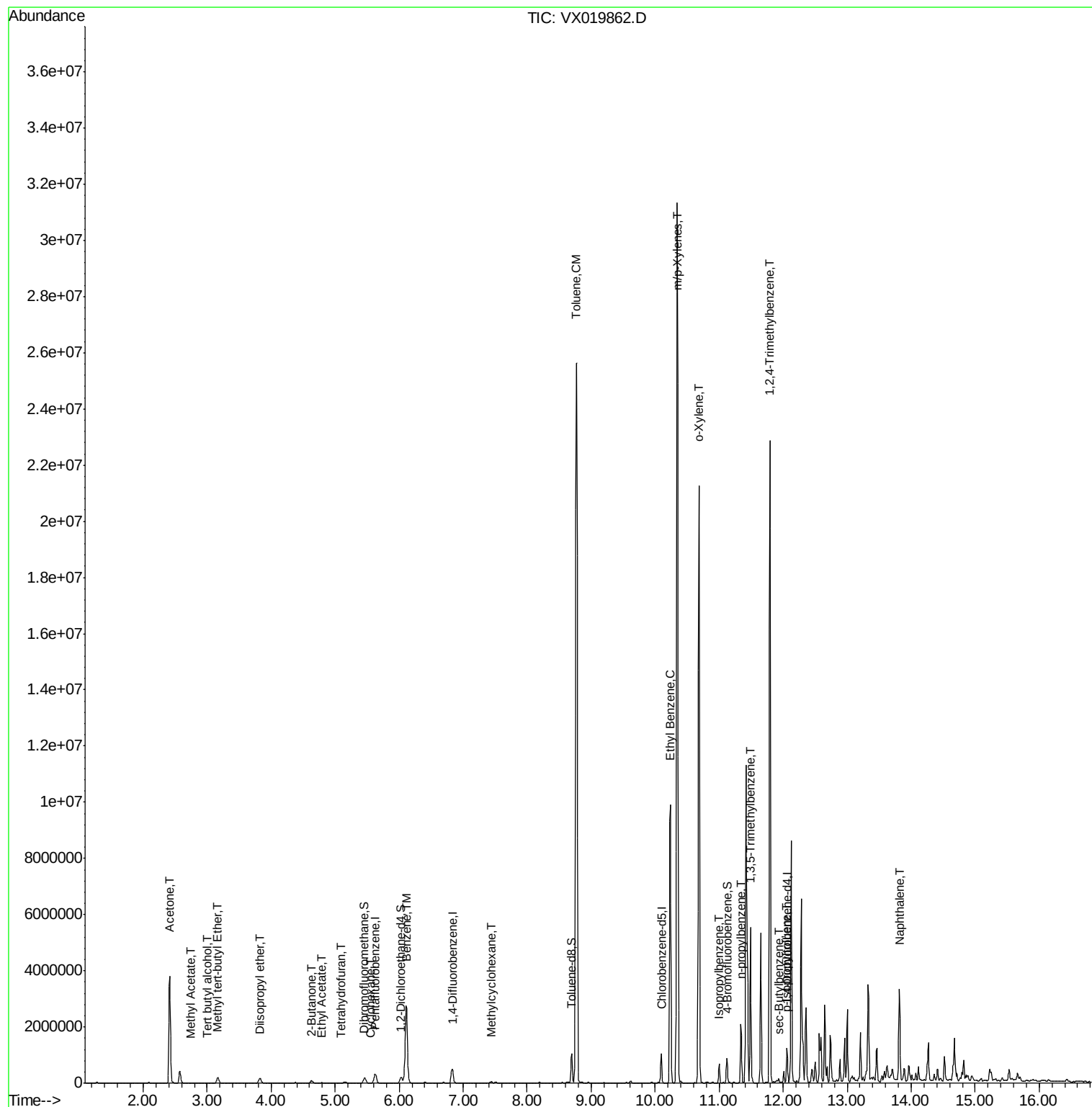
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121020\
Data File : VX019862.D
Acq On : 11 Dec 2020 06:36
Operator : JC/MD
Sample : L4987-05
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 56 Sample Multiplier: 1

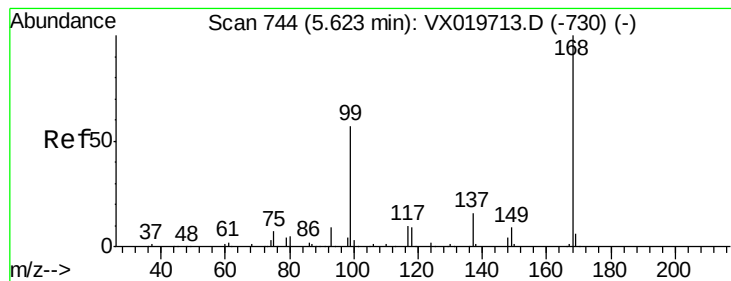
Instrument :
MSVOA_X
ClientSampleId :
32834

Manual Integrations
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Quant Time: Dec 11 07:13:22 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.00 min

Lab File: VX019862.D

Acq: 11 Dec 2020 06:36

Instrument :

MSVOA_X

ClientSampled :

32834

Tot Ion:168 Resp: 318458

Ion Ratio Lower Upper

168 100

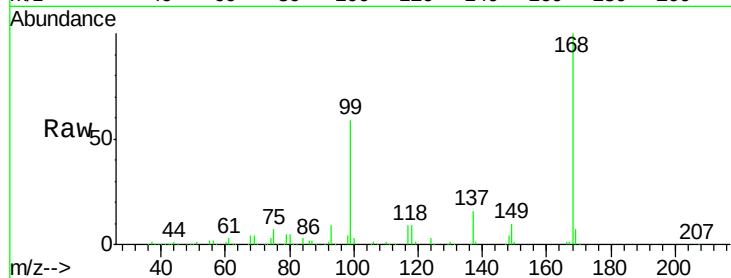
99 58.9 45.8 68.6

Manual Integrations

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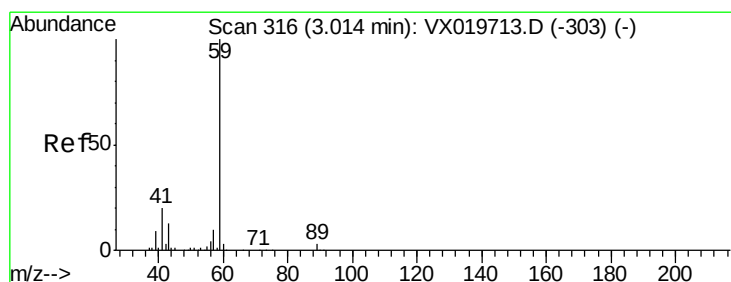
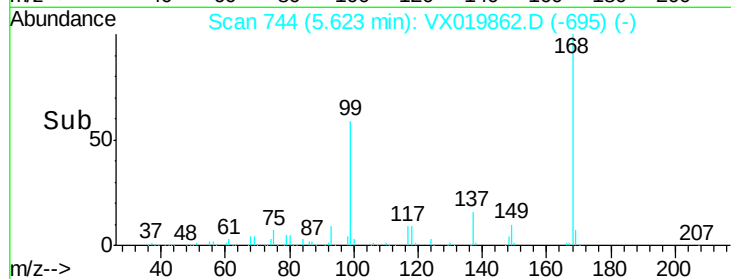
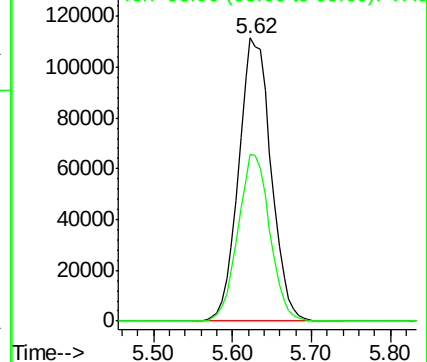
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 8.828 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX019862.D

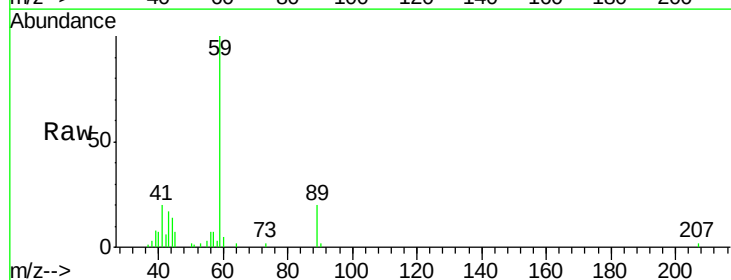
Acq: 11 Dec 2020 06:36

Tgt Ion: 59 Resp: 9765

Ion Ratio Lower Upper

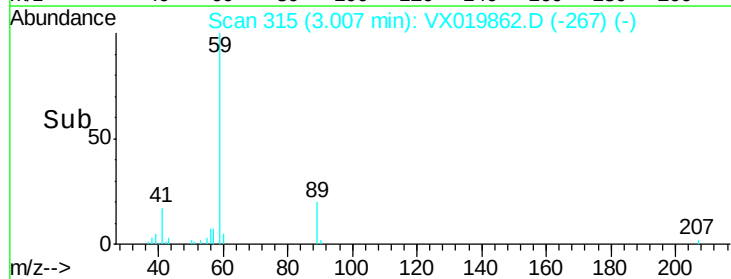
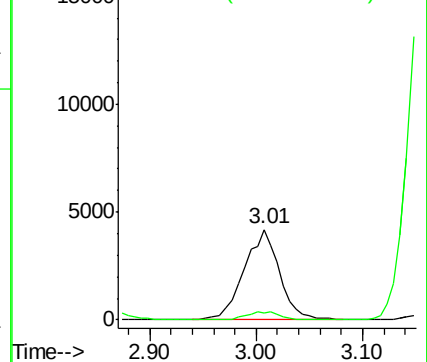
59 100

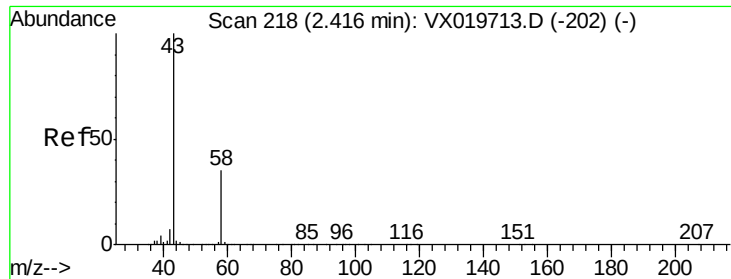
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





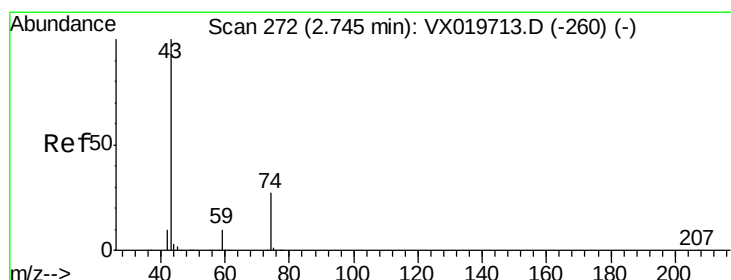
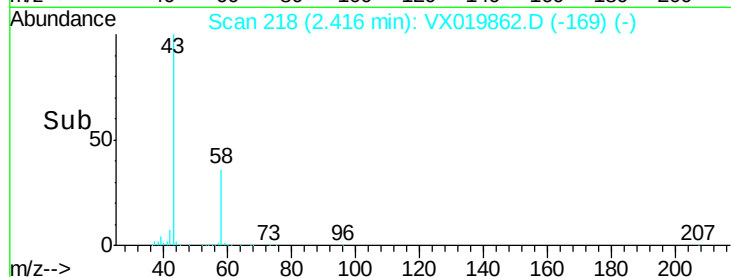
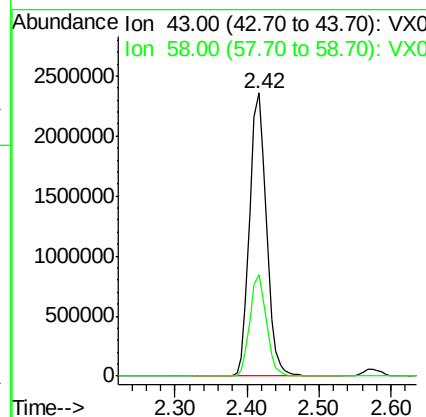
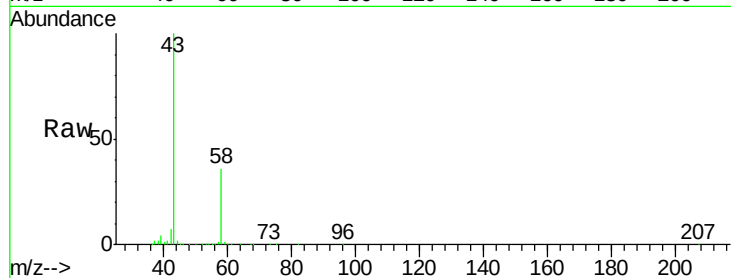
#16
Acetone
Concen: 2428.209 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.00 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Instrument :
MSVOA_X
ClientSampled :
32834

Tot Ion: 43 Resp: 3820093
Ion Ratio Lower Upper
43 100
58 35.9 27.8 41.8

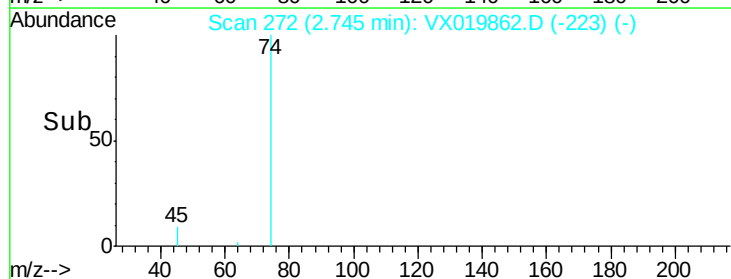
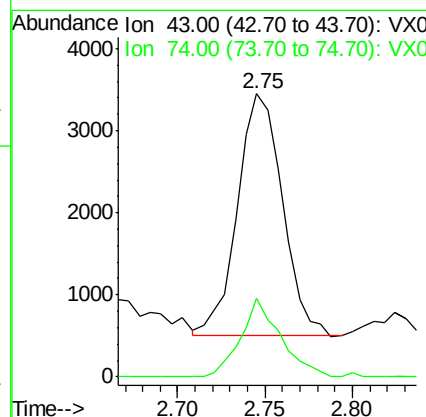
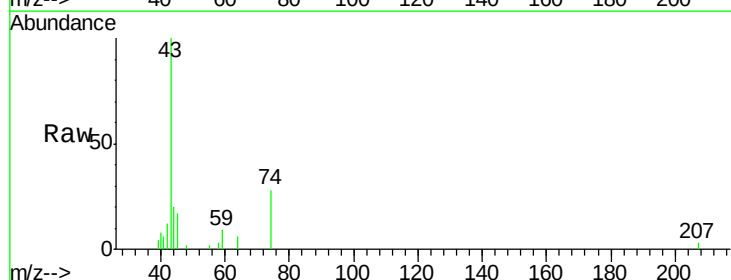
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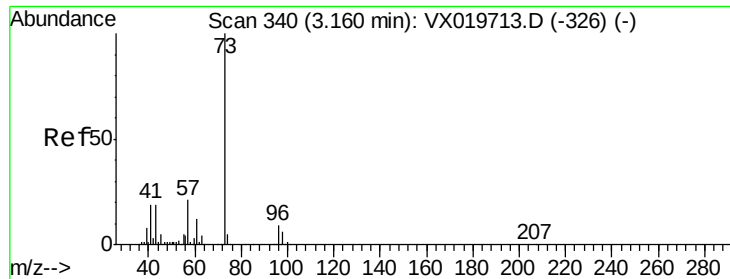
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#18
Methyl Acetate
Concen: 1.369 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.00 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Tgt Ion: 43 Resp: 5271
Ion Ratio Lower Upper
43 100
74 28.5 21.9 32.9





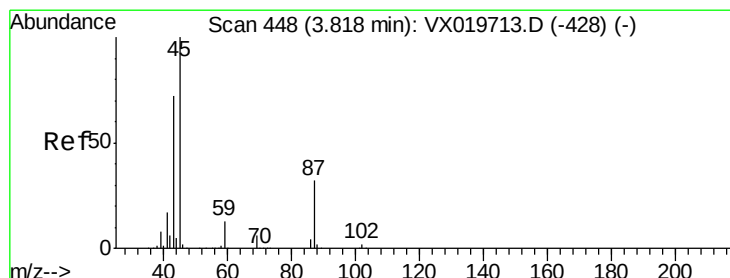
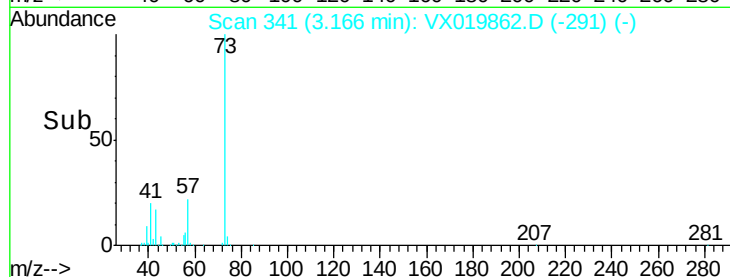
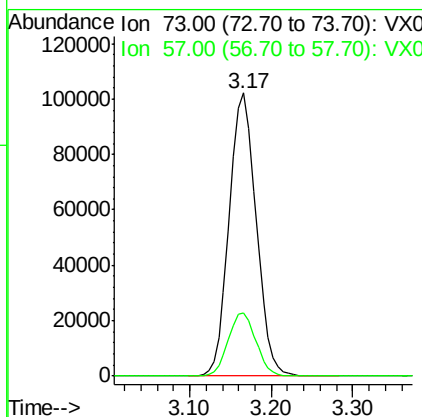
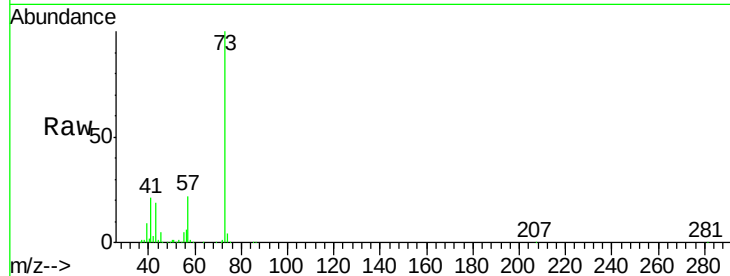
#19
Methyl tert-butyl Ether
Concen: 22.000 ug/l
RT: 3.17 min Scan# 341
Delta R.T. 0.01 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Instrument :
MSVOA_X
ClientSampled :
32834

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.1	25.7

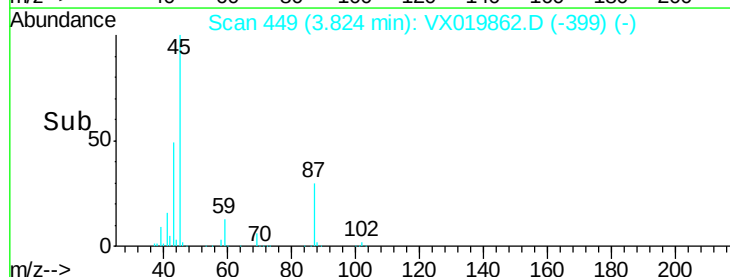
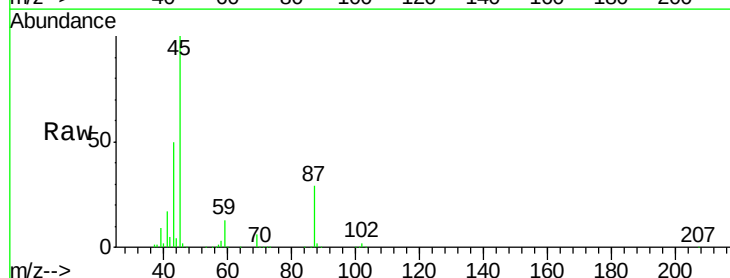
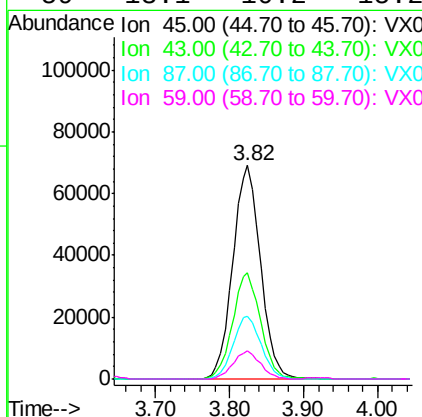
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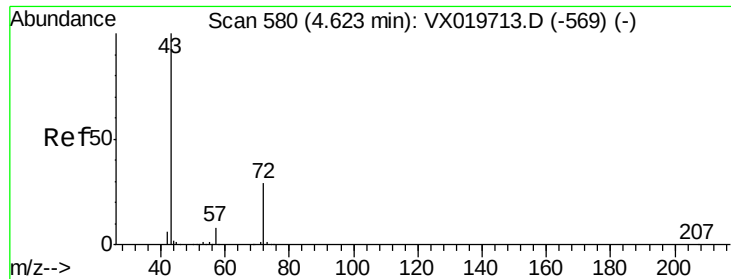
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#22
Diisopropyl ether
Concen: 18.143 ug/l
RT: 3.82 min Scan# 449
Delta R.T. 0.01 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Tgt Ion	Ratio	Lower	Upper
45	100		
43	49.4	58.0	87.0#
87	29.5	25.4	38.0
59	13.1	10.2	15.2





#25

2-Butanone

Concen: 61.239 ug/l

RT: 4.63 min Scan# 581

Delta R.T. 0.01 min

Lab File: VX019862.D

Acq: 11 Dec 2020 06:36

Instrument :

MSVOA_X

ClientSampled :

32834

Tot Ion: 43 Resp: 148039

Ion Ratio Lower Upper

43 100

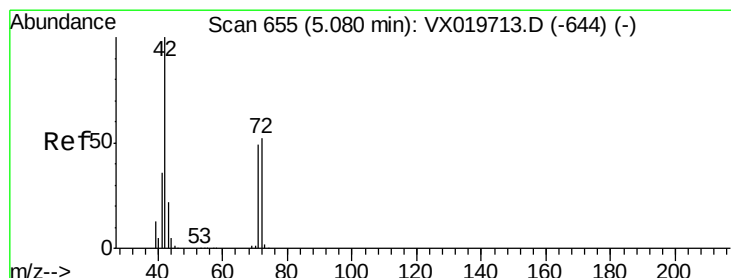
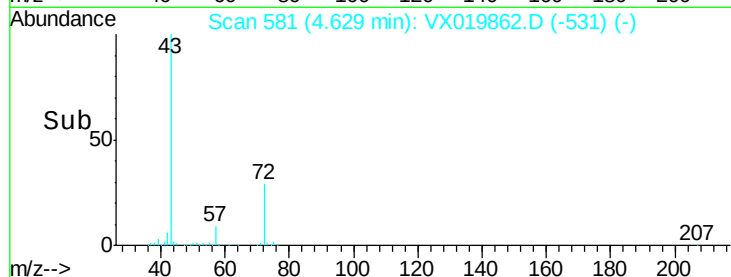
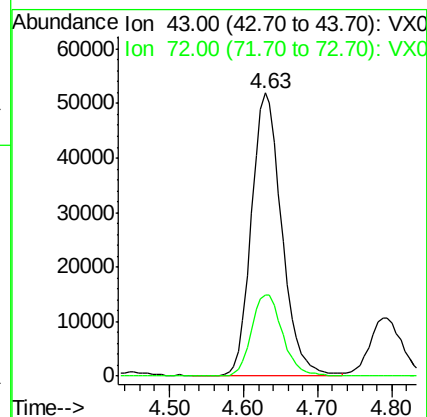
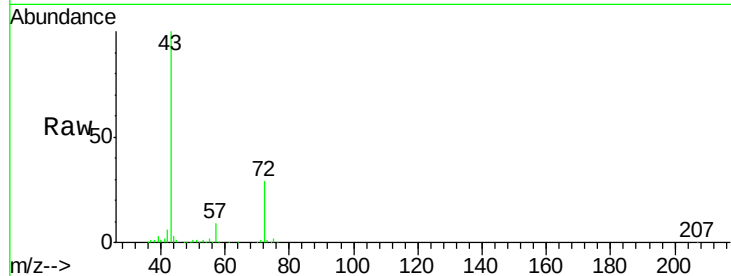
72 28.8 23.7 35.5

Manual Integrations

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#29

Tetrahydrofuran

Concen: 6.553 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX019862.D

Acq: 11 Dec 2020 06:36

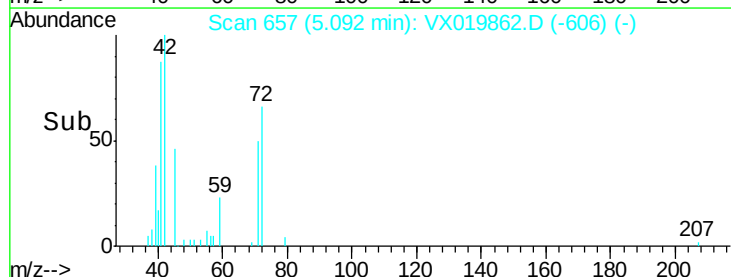
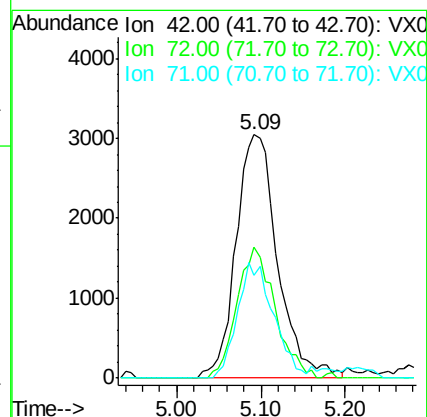
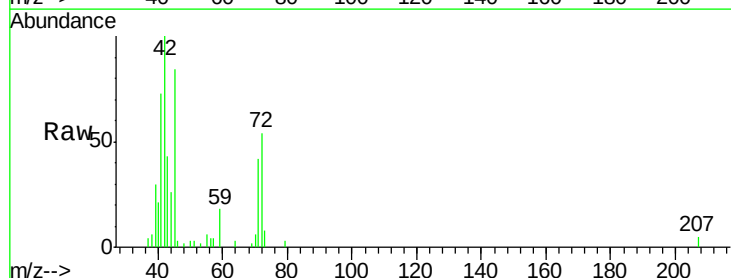
Tgt Ion: 42 Resp: 10206

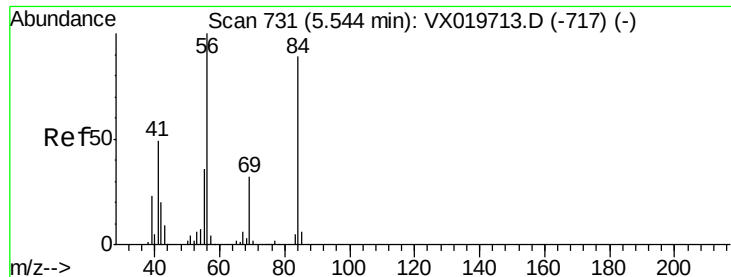
Ion Ratio Lower Upper

42 100

72 49.2 41.7 62.5

71 41.1 38.4 57.6





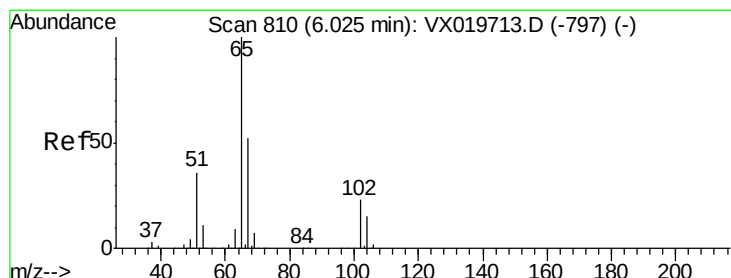
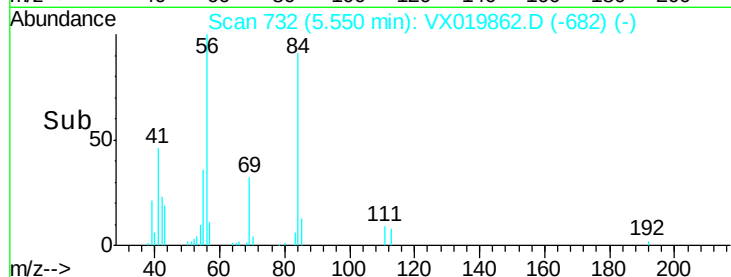
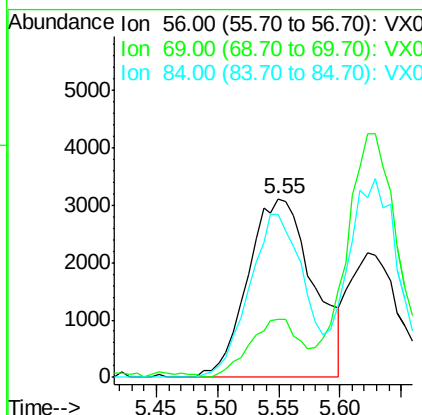
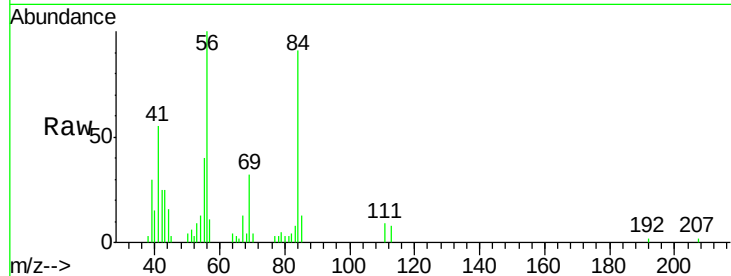
#31
Cyclohexane
Concen: 2.215 ug/l
RT: 5.55 min Scan# 732
Delta R.T. 0.01 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Instrument :
MSVOA_X
ClientSampled :
32834

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.4	25.3	37.9
84	91.4	71.4	107.0

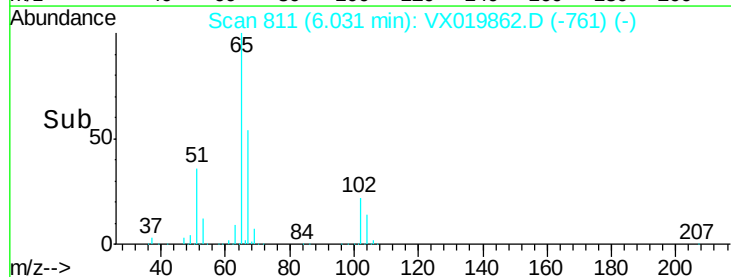
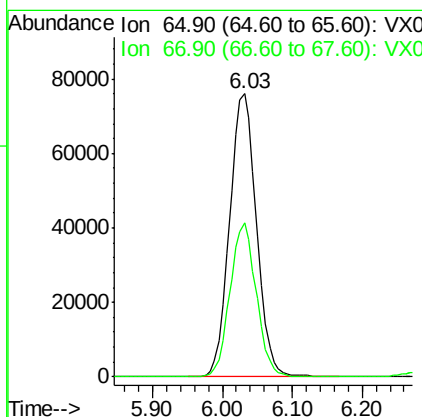
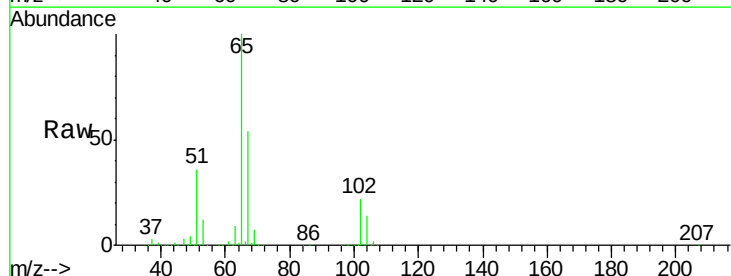
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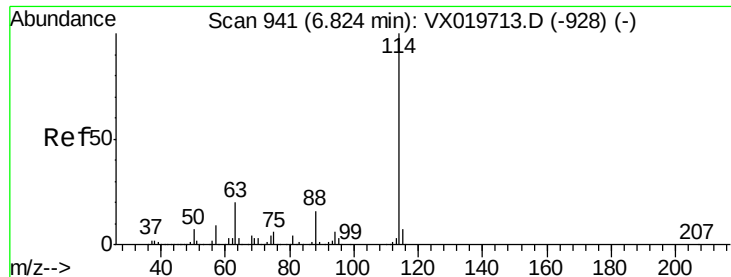
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#33
1,2-Dichloroethane-d4
Concen: 48.420 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.01 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	105.4





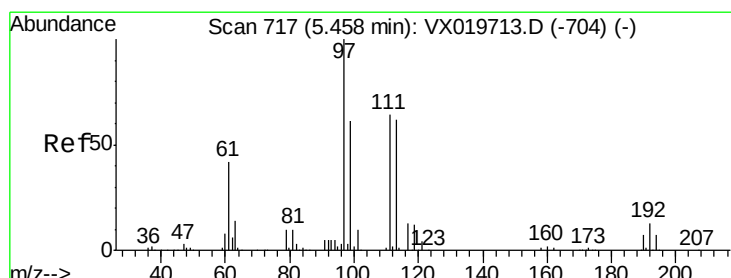
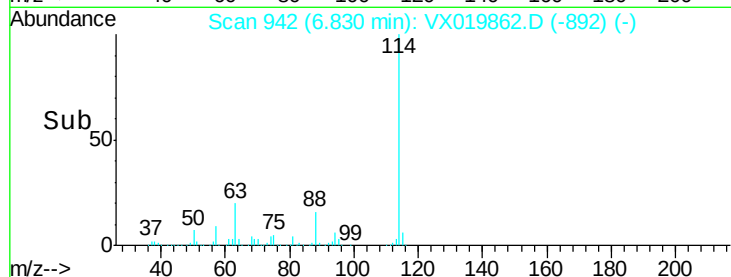
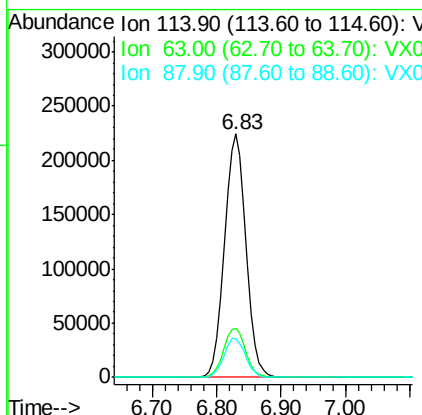
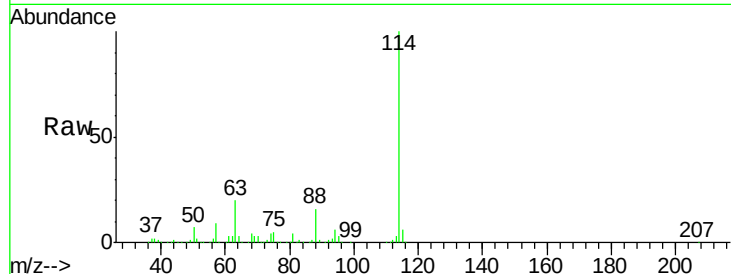
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1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.83 min Scan# 942
Delta R.T. 0.01 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Instrument :
MSVOA_X
ClientSampled :
32834

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	20.3	0.0	40.8
88	16.2	0.0	32.8

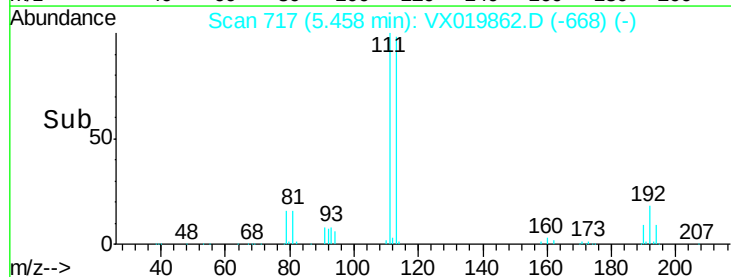
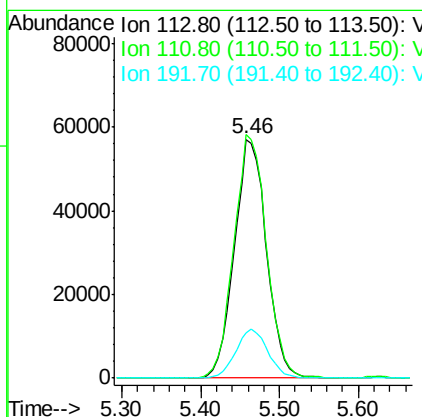
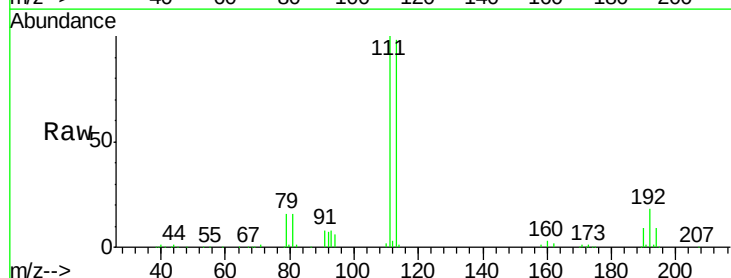
Manual Integrations
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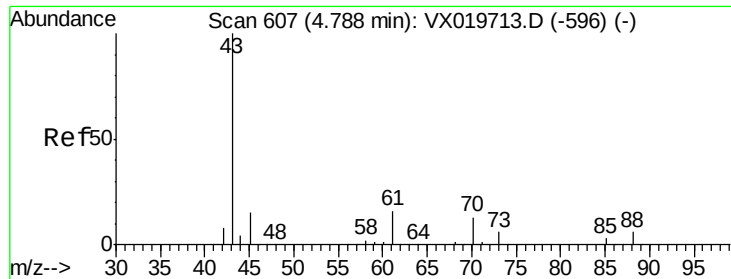
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#35
Dibromofluoromethane
Concen: 47.468 ug/l
RT: 5.46 min Scan# 717
Delta R.T. -0.00 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	103.1	81.9	122.9
192	20.6	16.7	25.1





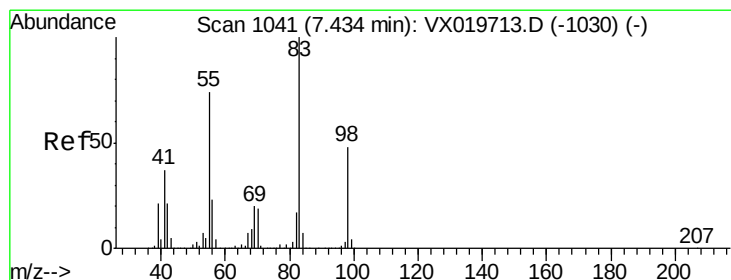
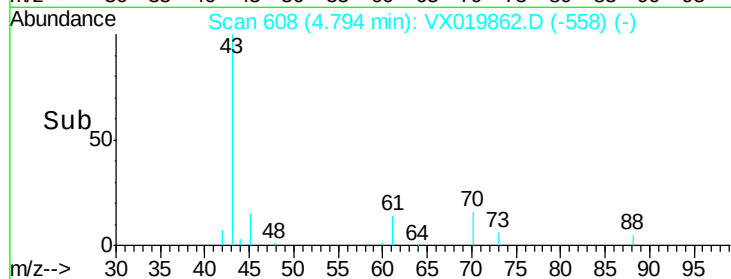
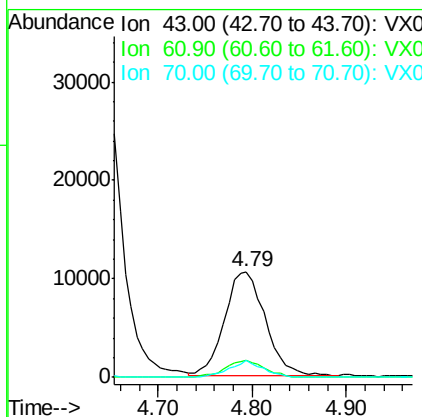
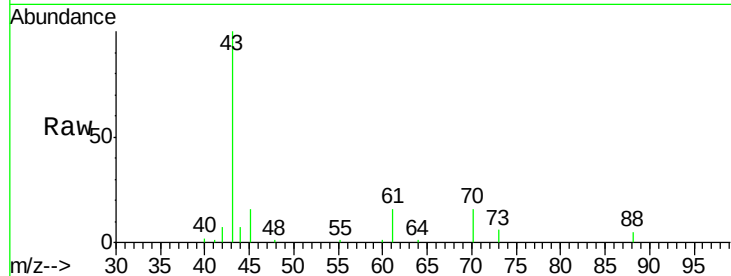
#37
Ethyl Acetate
Concen: 6.609 ug/l
RT: 4.79 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Instrument :
MSVOA_X
ClientSampled :
32834

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.9	12.8	19.2
70	13.2	10.5	15.7

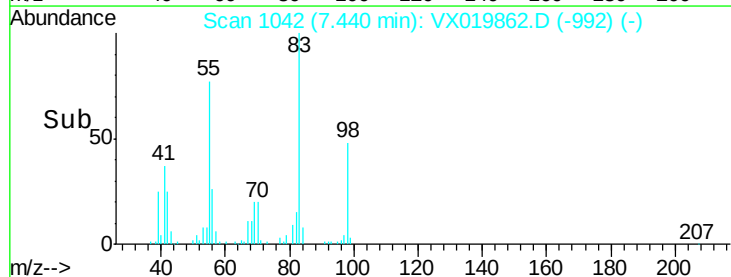
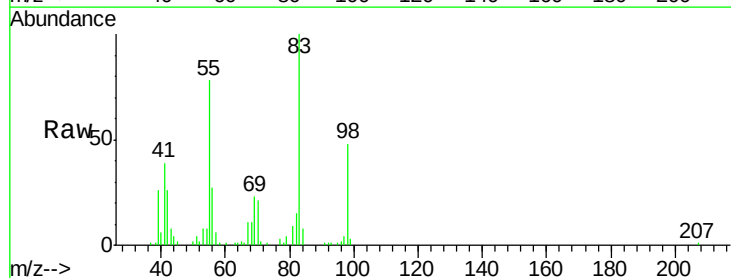
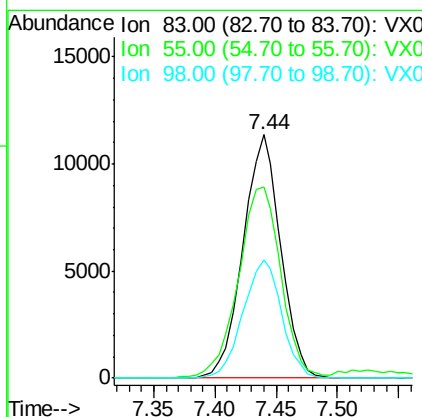
Manual Integrations
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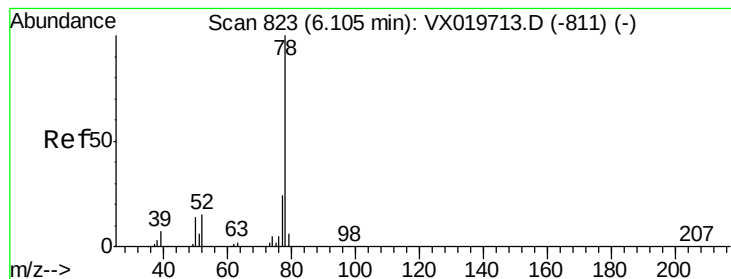
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12/11/2020 5:36:36 PM



#39
Methylcyclohexane
Concen: 4.342 ug/l
RT: 7.44 min Scan# 1042
Delta R.T. 0.01 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Tgt Ion	Ratio	Lower	Upper
83	100		
55	77.7	58.9	88.3
98	48.4	38.1	57.1





#40

Benzene

Concen: 234.457 ug/l

RT: 6.11 min Scan# 824

Delta R.T. 0.01 min

Lab File: VX019862.D

Acq: 11 Dec 2020 06:36

Instrument :

MSVOA_X

ClientSampleId :

32834

Tot Ion: 78 Resp: 3410264

Ion Ratio Lower Upper

78 100

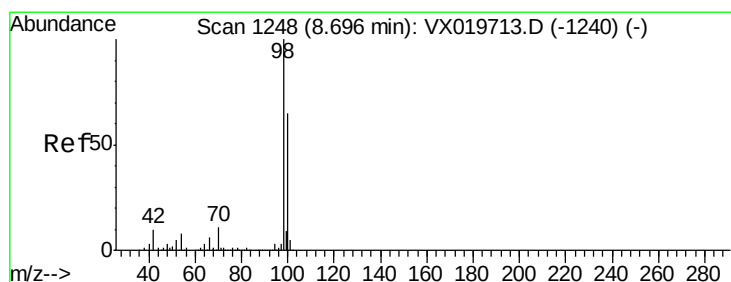
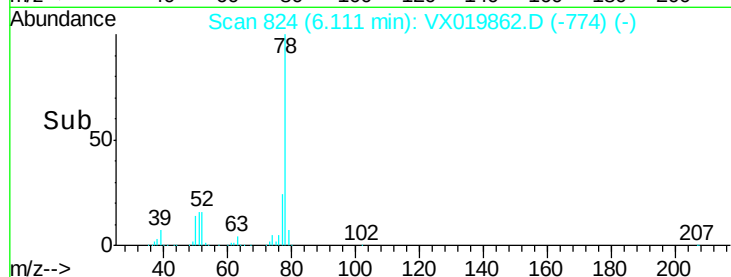
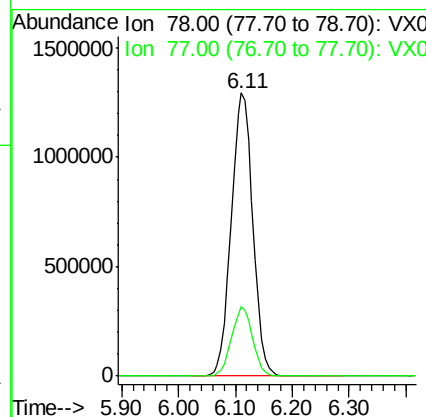
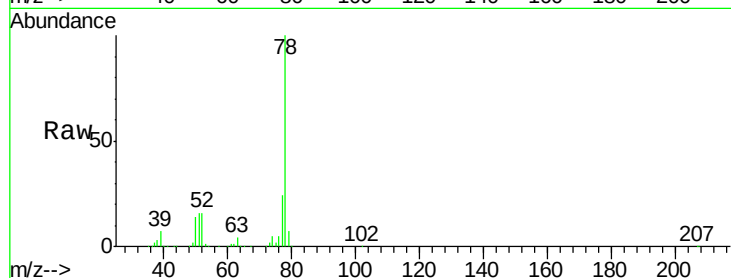
77 24.4 18.9 28.3

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#50

Toluene-d8

Concen: 49.827 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019862.D

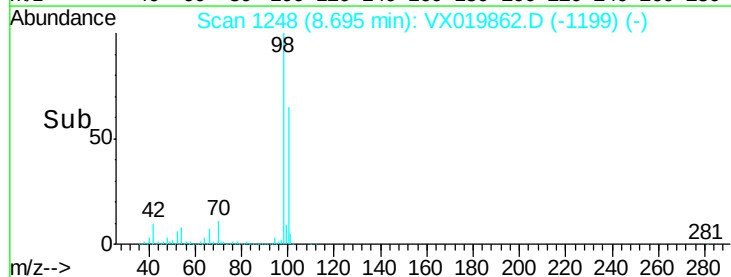
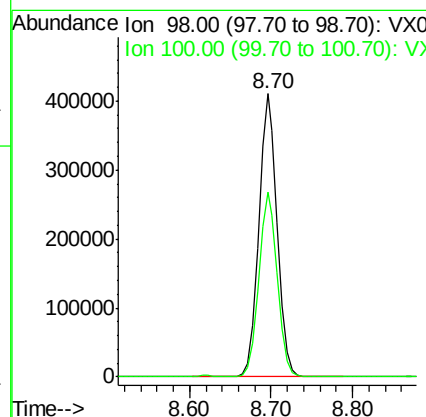
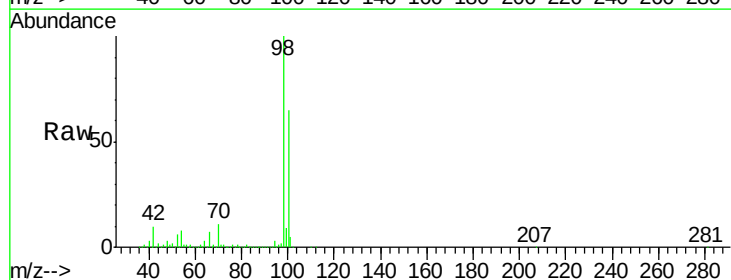
Acq: 11 Dec 2020 06:36

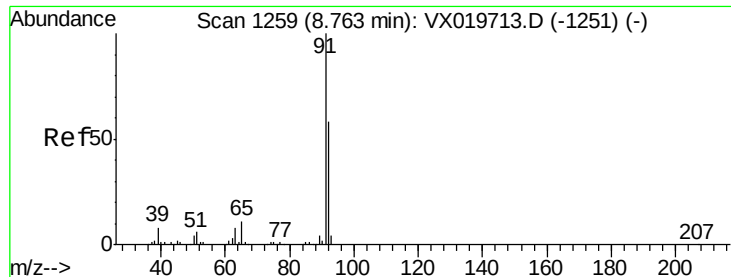
Tgt Ion: 98 Resp: 647828

Ion Ratio Lower Upper

98 100

100 65.7 51.9 77.9





#52

Toluene

Concen: 1255.396 ug/l

RT: 8.77 min Scan# 1261

Delta R.T. 0.01 min

Lab File: VX019862.D

Acq: 11 Dec 2020 06:36

Instrument :

MSVOA_X

ClientSampled :

32834

Tot Ion: 92 Resp: 11420654

Ion Ratio Lower Upper

92 100

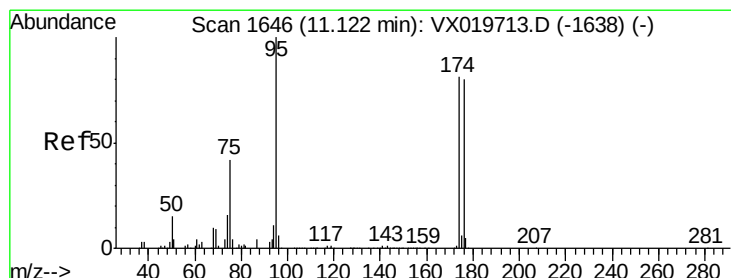
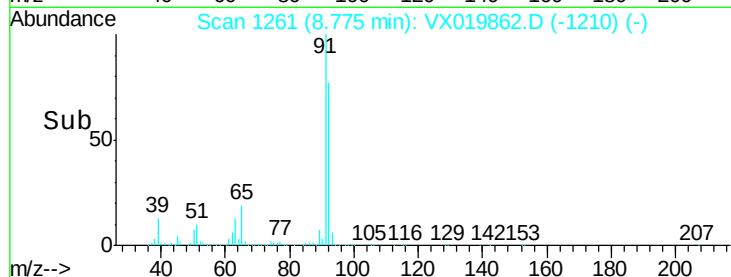
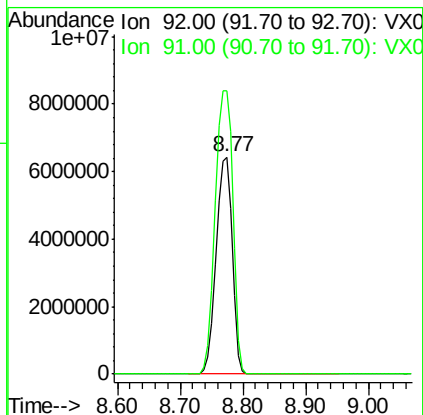
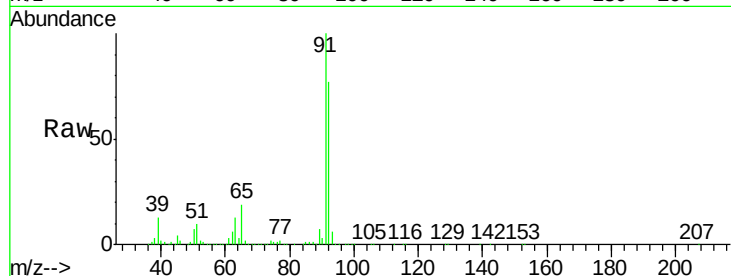
91 144.4 137.1 205.7

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 48.099 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019862.D

Acq: 11 Dec 2020 06:36

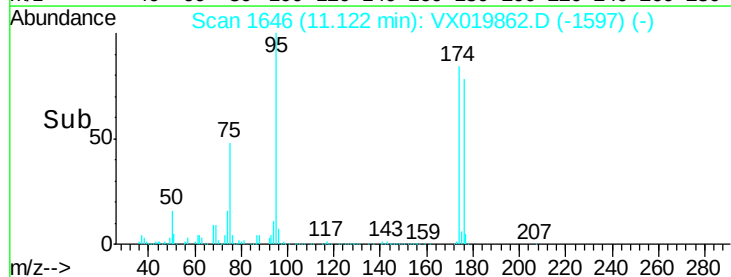
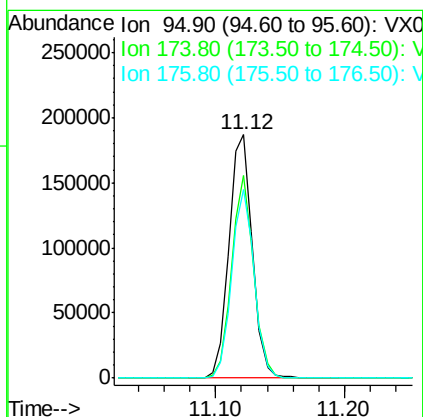
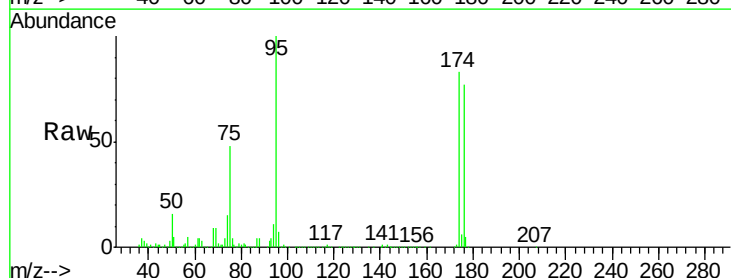
Tgt Ion: 95 Resp: 238022

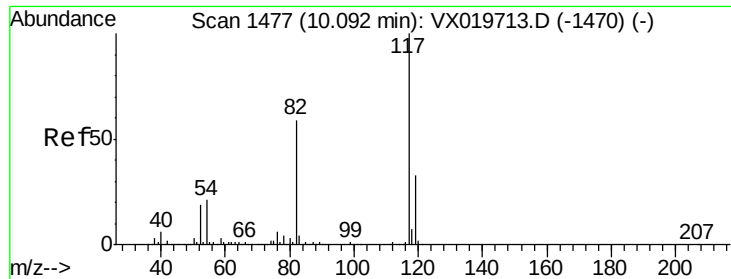
Ion Ratio Lower Upper

95 100

174 78.1 0.0 154.6

176 74.3 0.0 155.8





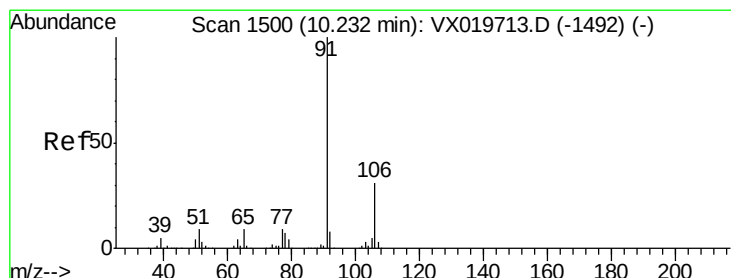
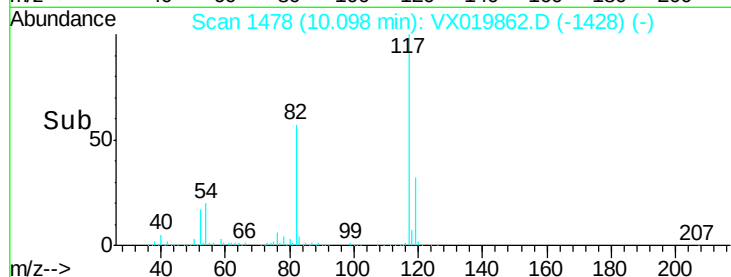
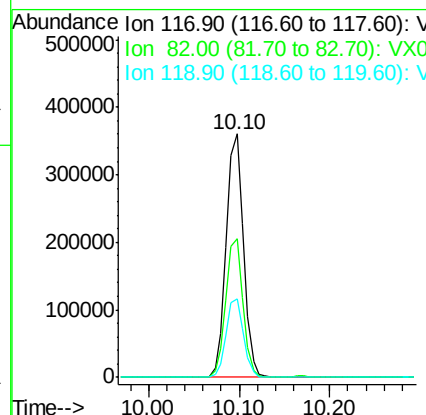
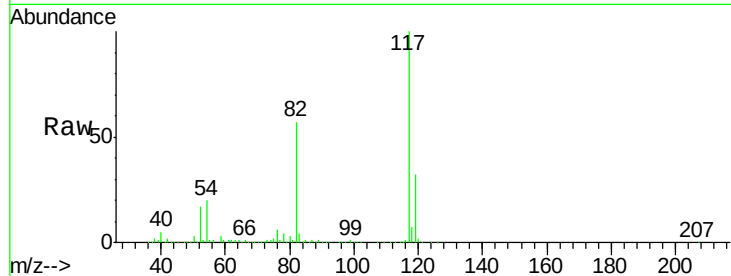
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Instrument :
MSVOA_X
ClientSampleId :
32834

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.7	47.4	71.2
119	32.3	26.6	39.8

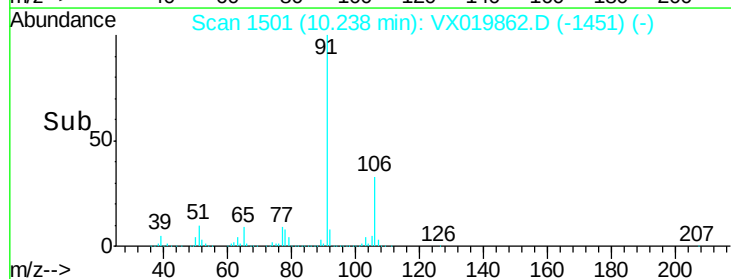
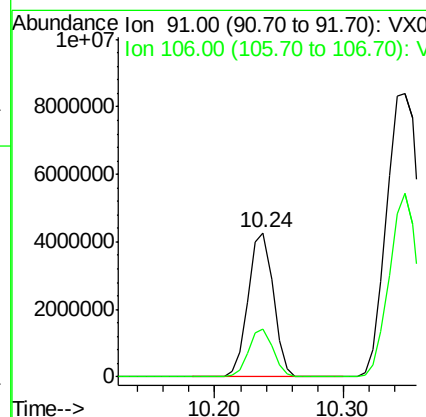
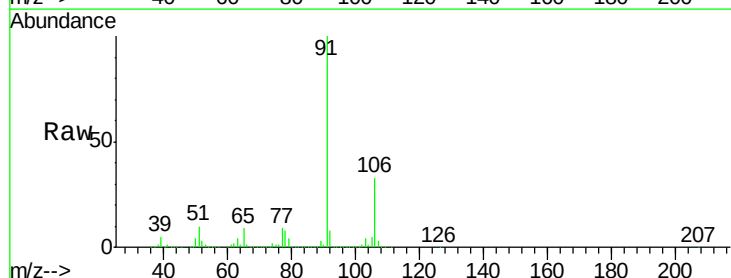
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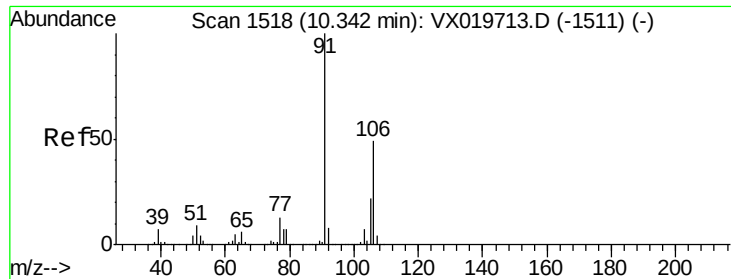
MMDadoda
12/11/2020 5:36:36 PM



#67
Ethyl Benzene
Concen: 337.407 ug/l
RT: 10.24 min Scan# 1501
Delta R.T. 0.01 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.3	24.6	37.0





#68

m/p-Xylenes

Concen: 1280.105 ug/l

RT: 10.35 min Scan# 1519

Delta R.T. 0.01 min

Lab File: VX019862.D

Acq: 11 Dec 2020 06:36

Instrument :

MSVOA_X

ClientSampled :

32834

Tot Ion:106 Resp: 8189661

Ion Ratio Lower Upper

106 100

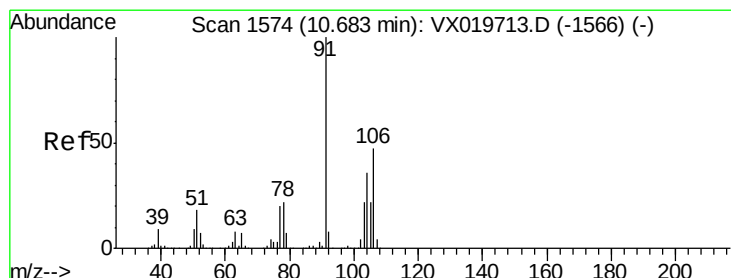
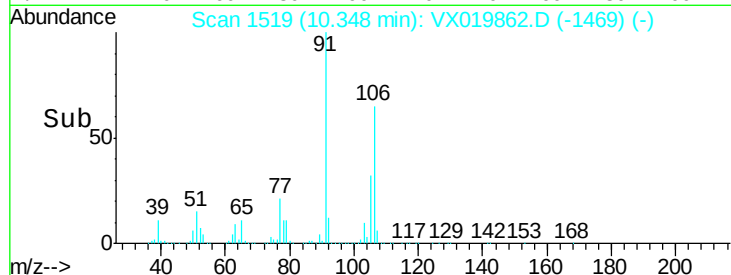
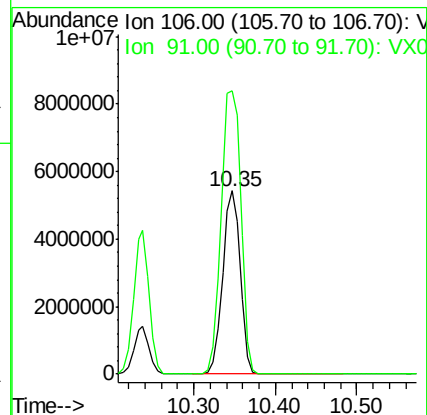
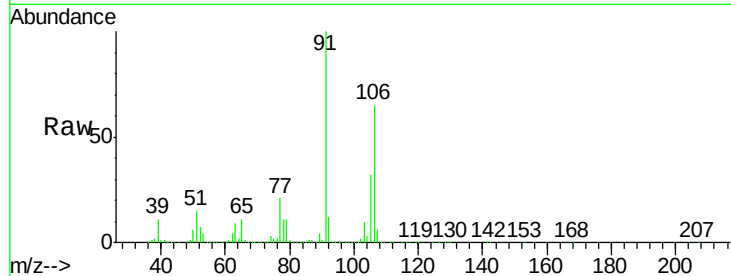
91 176.1 162.8 244.2

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#69

o-Xylene

Concen: 811.387 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX019862.D

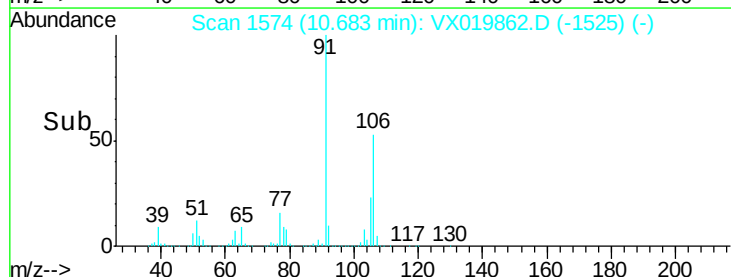
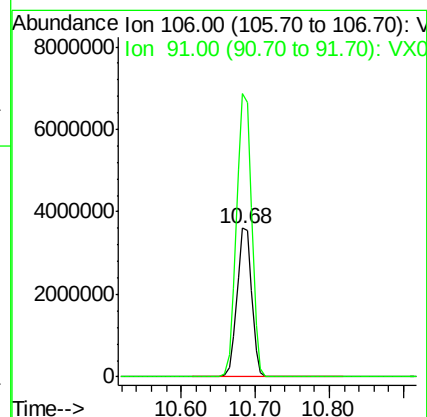
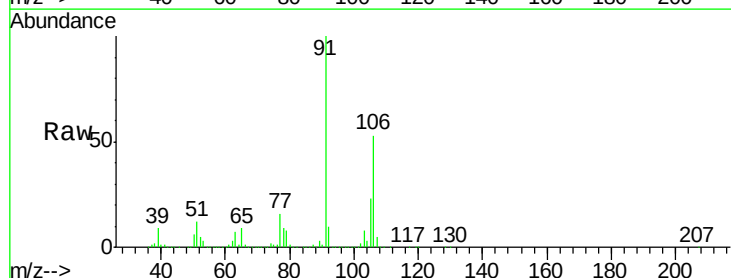
Acq: 11 Dec 2020 06:36

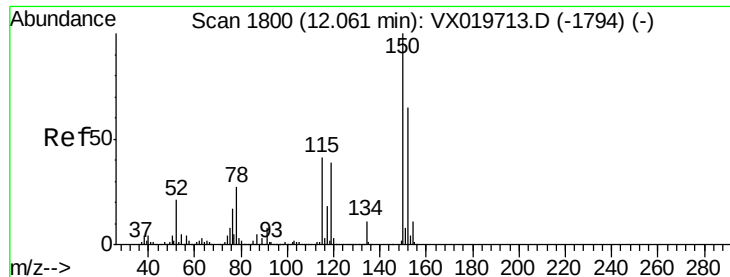
Tgt Ion:106 Resp: 4993437

Ion Ratio Lower Upper

106 100

91 197.4 108.1 324.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019862.D

Acq: 11 Dec 2020 06:36

Instrument :

MSVOA_X

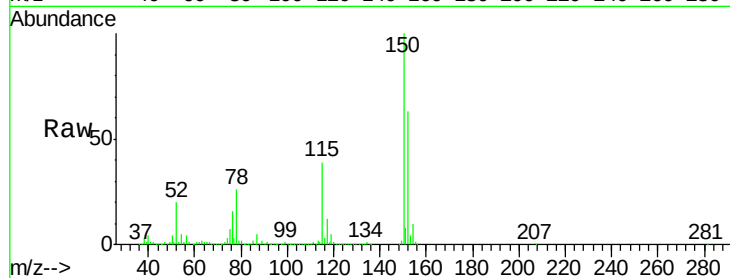
ClientSampled :

32834

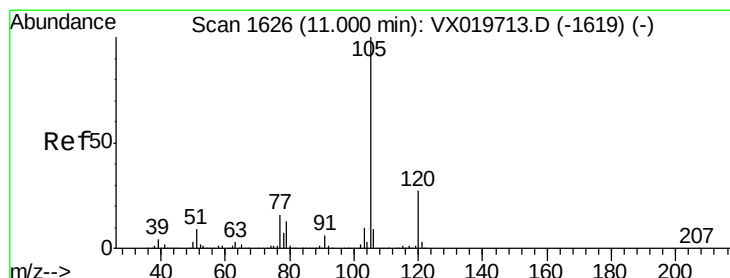
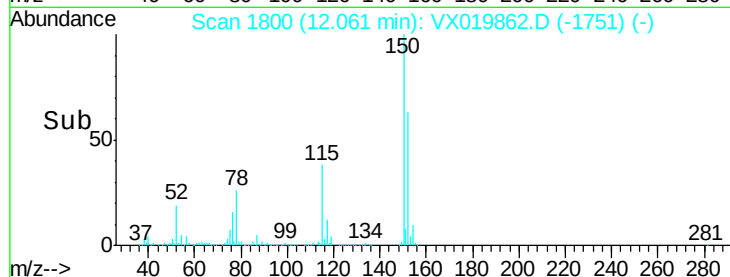
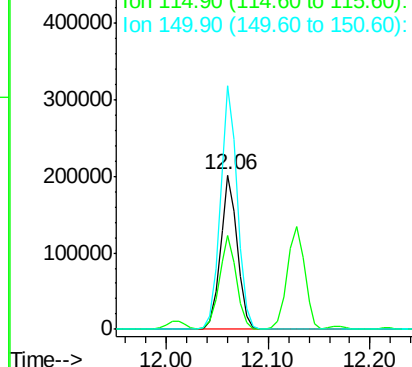
Tot Ion:	152	Resp:	233901
Ion Ratio	Lower	Upper	
152	100		
115	61.5	41.1	123.3
150	159.1	0.0	349.0

Manual Integrations
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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: 20.992 ug/l

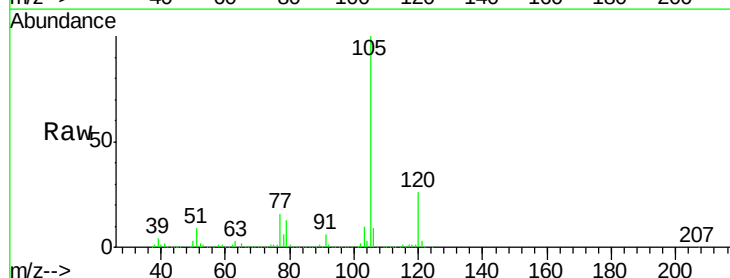
RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

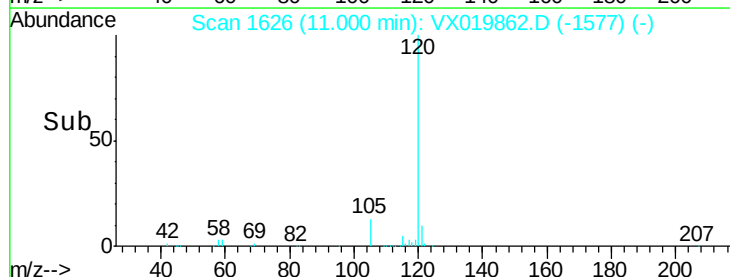
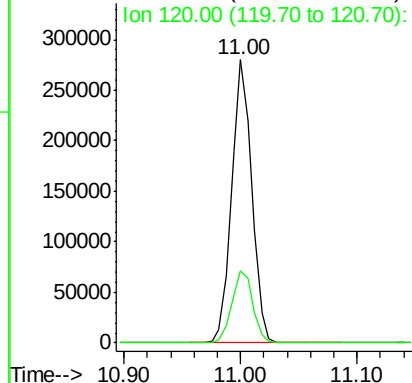
Lab File: VX019862.D

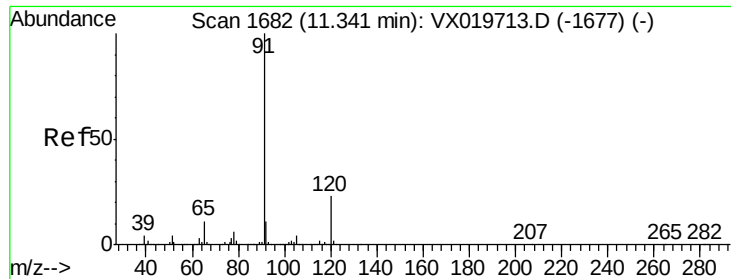
Acq: 11 Dec 2020 06:36

Tgt Ion:	105	Resp:	335461
Ion Ratio	Lower	Upper	
105	100		
120	26.3	13.2	39.6



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





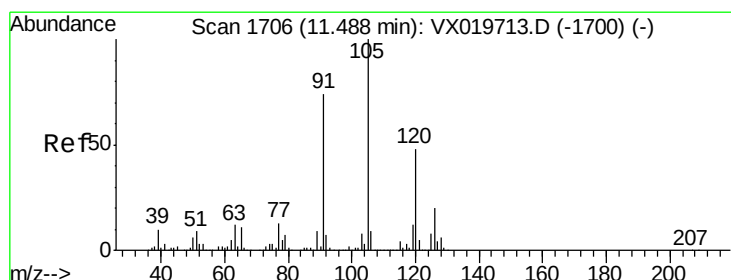
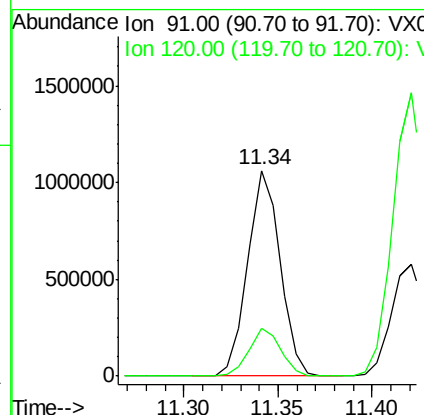
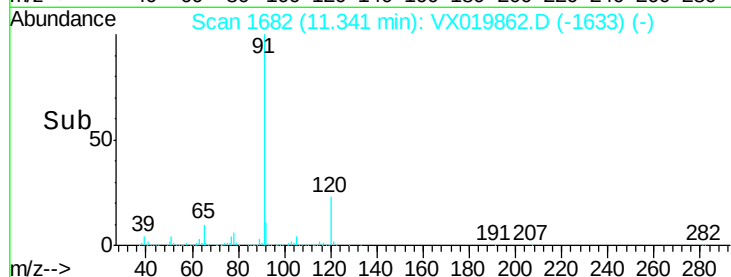
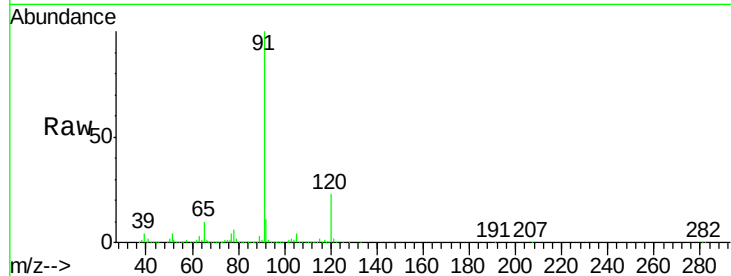
#78
n-propylbenzene
Concen: 69.686 ug/l
RT: 11.34 min Scan# 1682
Delta R.T. -0.00 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Instrument :
MSVOA_X
ClientSampled :
32834

Tot Ion: 91 Resp: 1271875
Ion Ratio Lower Upper
91 100
120 22.5 11.5 34.5

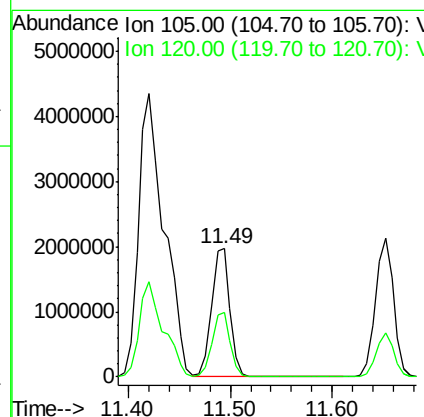
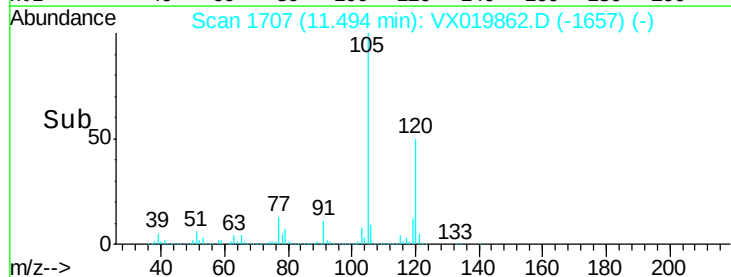
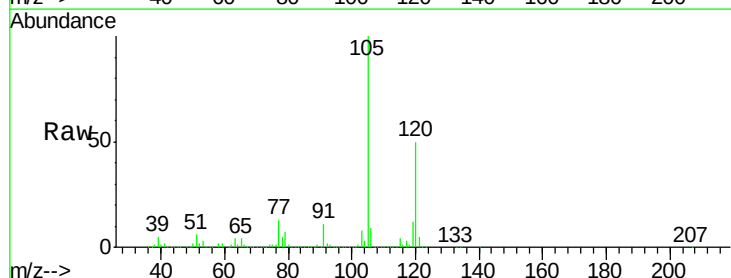
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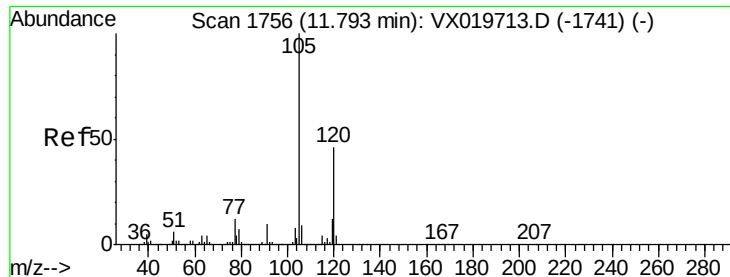
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#80
1,3,5-Trimethylbenzene
Concen: 184.283 ug/l
RT: 11.49 min Scan# 1707
Delta R.T. 0.01 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Tgt Ion: 105 Resp: 2485366
Ion Ratio Lower Upper
105 100
120 49.2 23.8 71.5





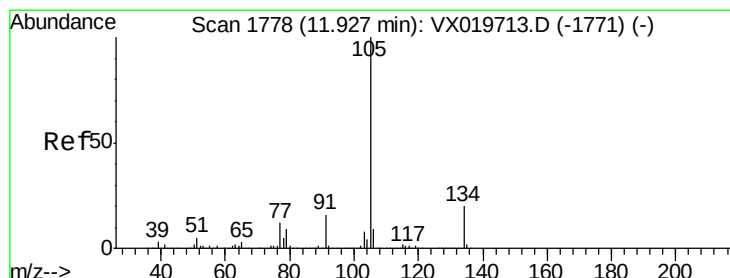
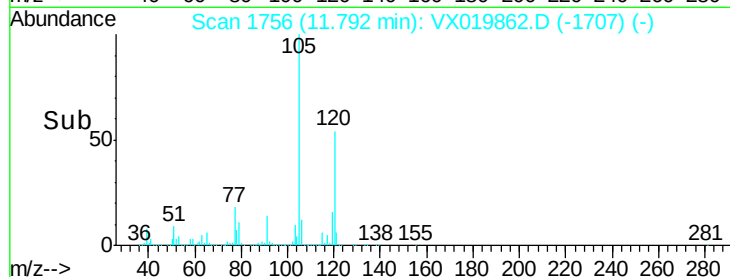
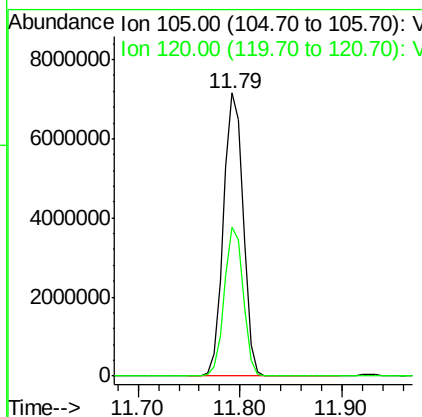
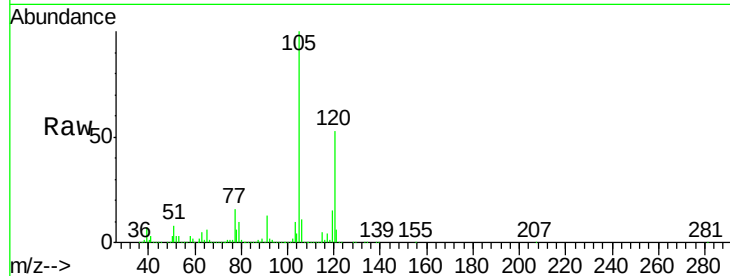
#84
 1,2,4-Trimethylbenzene
 Concen: 706.515 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VX019862.D
 Acq: 11 Dec 2020 06:36

Instrument :
 MSVOA_X
 ClientSampled :
 32834

Tot Ion:105 Resp: 9598272
 Ion Ratio Lower Upper
 105 100
 120 50.1 22.4 67.3

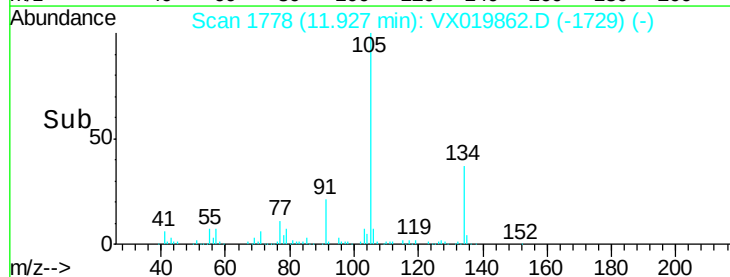
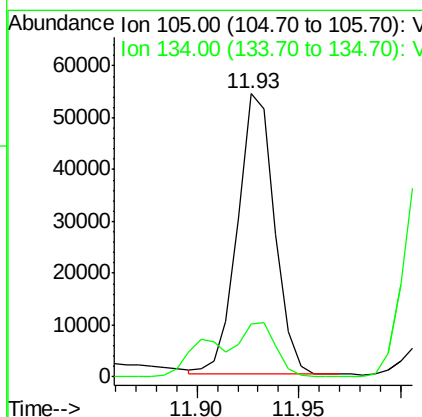
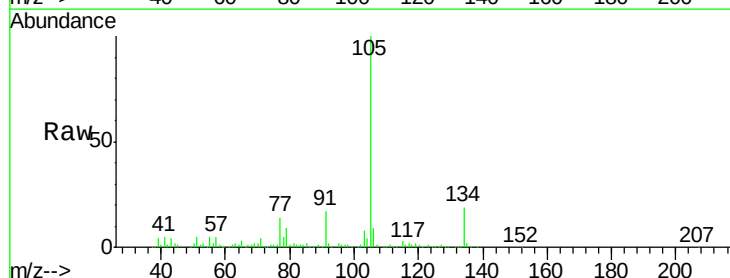
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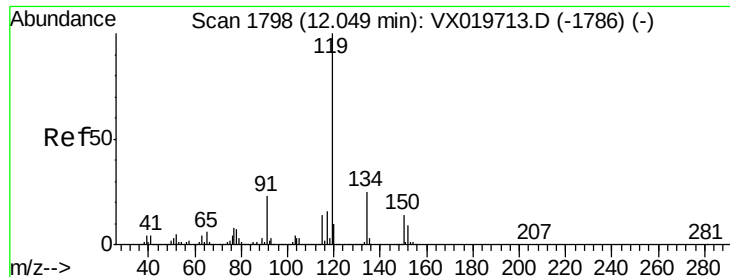
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 12/11/2020 5:36:36 PM



#85
 sec-Butylbenzene
 Concen: 4.513 ug/l m
 RT: 11.93 min Scan# 1778
 Delta R.T. -0.00 min
 Lab File: VX019862.D
 Acq: 11 Dec 2020 06:36

Tgt Ion:105 Resp: 68147
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.0 29.8#





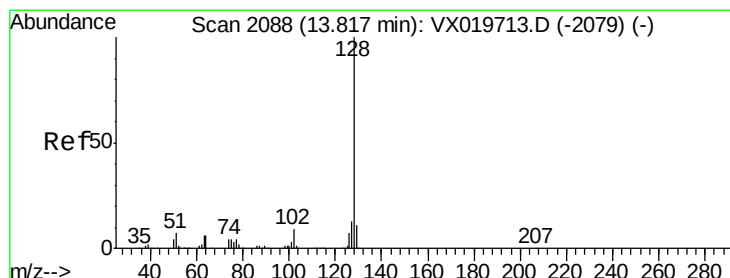
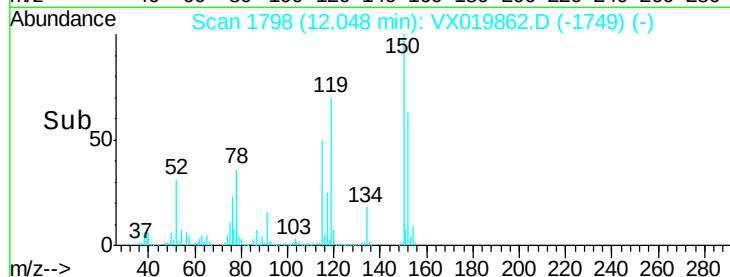
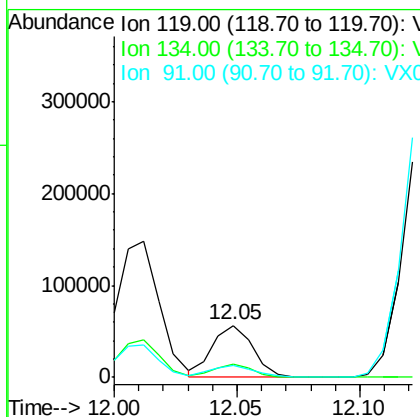
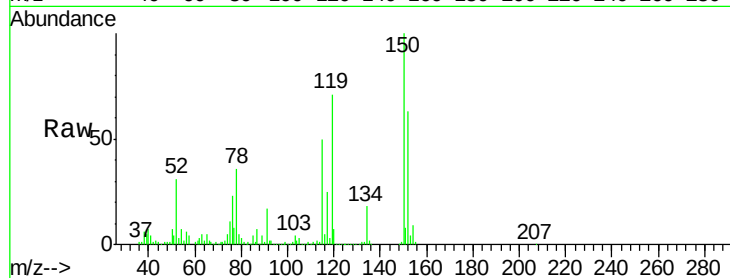
#86
p-Isopropyltoluene
Concen: 4.641 ug/l m
RT: 12.05 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Instrument :
MSVOA_X
ClientSampleId :
32834

Tot Ion	Ratio	Lower	Upper
119	100		
134	77.3	12.9	38.7#
91	65.8	11.7	35.0#

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#95
Naphthalene
Concen: 131.933 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. -0.00 min
Lab File: VX019862.D
Acq: 11 Dec 2020 06:36

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.0	8.8	13.2

