

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX052920\
 Data File : VX016513.D
 Acq On : 29 May 2020 16:02
 Operator : JC/SP
 Sample : L2804-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 32388

Manual Integrations
 APPROVED

MMDadoda
 6/1/2020 12:28:19 PM

Quant Time: May 30 06:36:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	278562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	454608	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.10	117	477405	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	275491	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	164161	47.45	ug/l	0.03
Spiked Amount 50.000			Recovery	=	94.90%	
35) Dibromofluoromethane	5.49	113	124194	44.37	ug/l	0.02
Spiked Amount 50.000			Recovery	=	88.74%	
50) Toluene-d8	8.72	98	569227	52.25	ug/l	0.02
Spiked Amount 50.000			Recovery	=	104.50%	
62) 4-Bromofluorobenzene	11.13	95	271975	64.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	129.20%	
Target Compounds						
						Qvalue
19) Methyl tert-butyl Ether	3.20	73	600582	62.40	ug/l	100
22) Diisopropyl ether	3.85	45	765621	80.85	ug/l #	80
25) 2-Butanone	4.67	43	406092	158.12	ug/l	98
31) Cyclohexane	5.55	56	1574662	327.49	ug/l	99
37) Ethyl Acetate	4.83	43	43532	8.42	ug/l	96
39) Methylcyclohexane	7.44	83	1319184	282.17	ug/l	98
40) Benzene	6.12	78	38362621m	2992.89	ug/l	
43) Isopropyl Acetate	6.42	43	98690	12.24	ug/l #	33
52) Toluene	8.77	92	52573385m	6504.27	ug/l	
59) 2-Hexanone	9.49	43	31634	8.10	ug/l	87
67) Ethyl Benzene	10.24	91	22996139m	1327.04	ug/l	
68) m/p-Xylenes	10.36	106	28109587m	4375.01	ug/l	
69) o-Xylene	10.70	106	20293389	3261.37	ug/l #	1
73) Isopropylbenzene	11.01	105	3058398	160.22	ug/l	100
78) n-propylbenzene	11.35	91	7050875	330.63	ug/l	98
80) 1,3,5-Trimethylbenzene	11.50	105	9347101	586.45	ug/l	94
84) 1,2,4-Trimethylbenzene	11.79	105	19127337m	1186.65	ug/l	
85) sec-Butylbenzene	11.93	105	241078m	14.11	ug/l	
86) p-Isopropyltoluene	12.05	119	147767	9.23	ug/l #	77
89) n-Butylbenzene	12.36	91	682344m	51.19	ug/l	
95) Naphthalene	13.82	128	10884338	568.89	ug/l	97

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

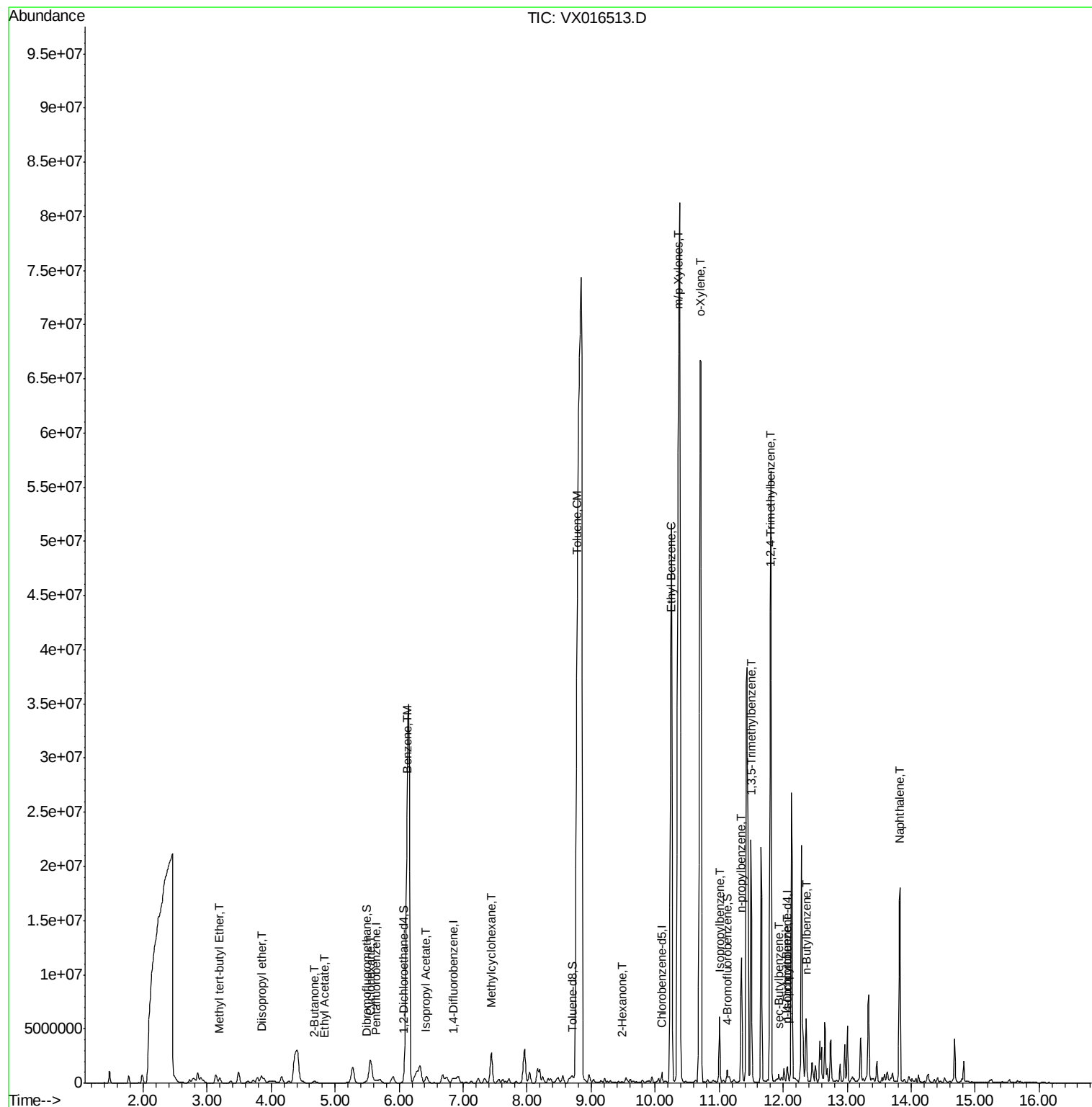
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX052920\
Data File : VX016513.D
Acq On : 29 May 2020 16:02
Operator : JC/SP
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Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
32388

Manual Integrations
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Quant Time: May 30 06:36:44 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
Quant Title : SW846 8260
QLast Update : Wed May 27 16:31:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016513.D

Acq: 29 May 2020 16:02

Instrument :

MSVOA_X

ClientSampled :

32388

Tgt Ion: 168 Resp: 278562

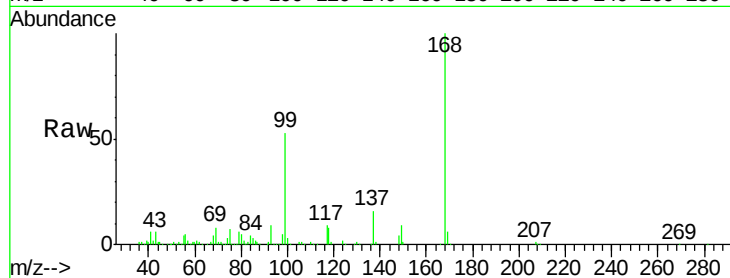
Ion Ratio Lower Upper

168 100

99 52.9 45.2 67.8

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

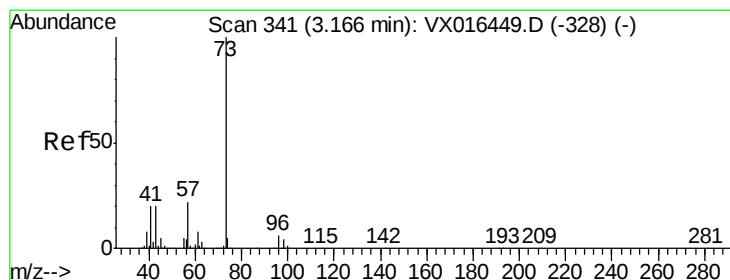
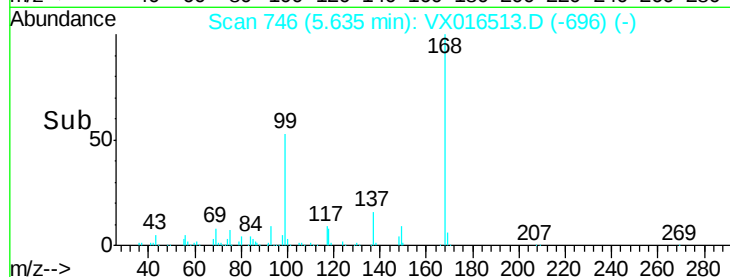
60000

40000

20000

0

Time-->



#19

Methyl tert-butyl Ether

Concen: 62.40 ug/l

RT: 3.20 min Scan# 346

Delta R.T. 0.03 min

Lab File: VX016513.D

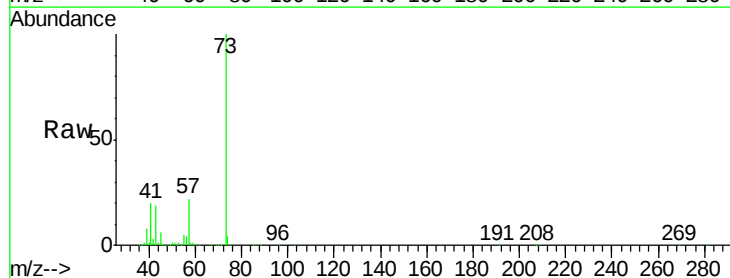
Acq: 29 May 2020 16:02

Tgt Ion: 73 Resp: 600582

Ion Ratio Lower Upper

73 100

57 22.1 17.8 26.6



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.20

250000

200000

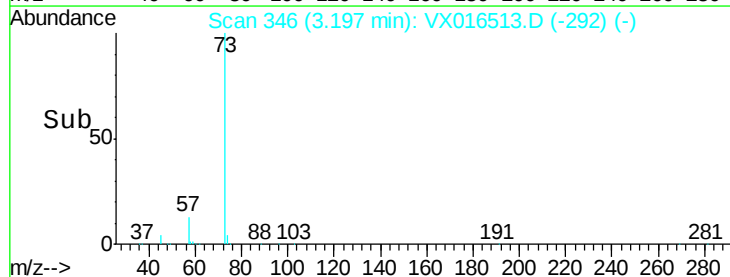
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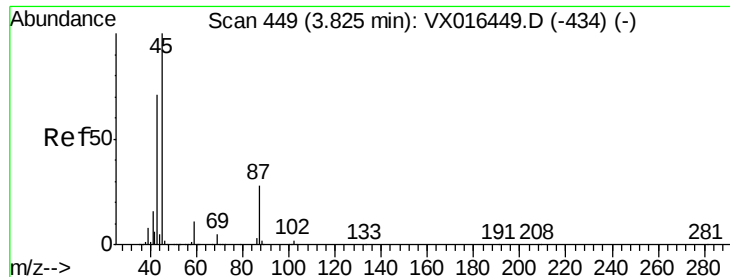
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50000

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Time-->





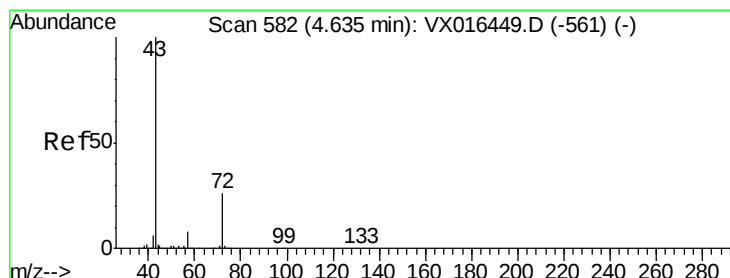
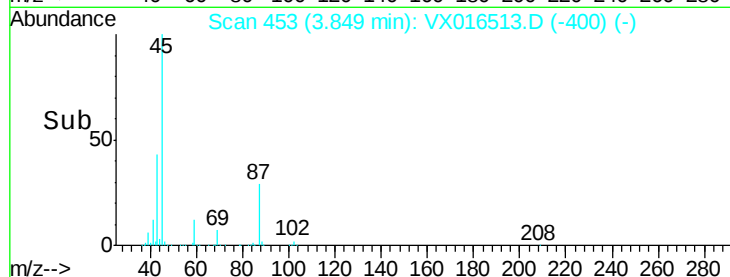
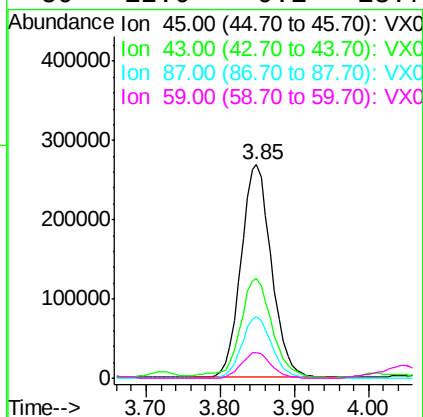
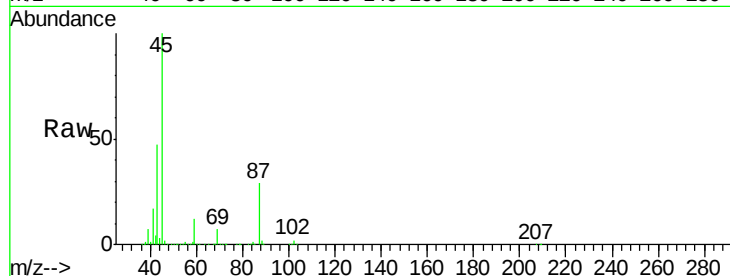
#22
Diisopropyl ether
Concen: 80.85 ug/l
RT: 3.85 min Scan# 453
Delta R.T. 0.02 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Instrument :
MSVOA_X
ClientSampleId :
32388

Tgt Ion	Ratio	Lower	Upper
45	100		
43	46.6	57.0	85.6#
87	28.6	22.5	33.7
59	12.0	9.1	13.7

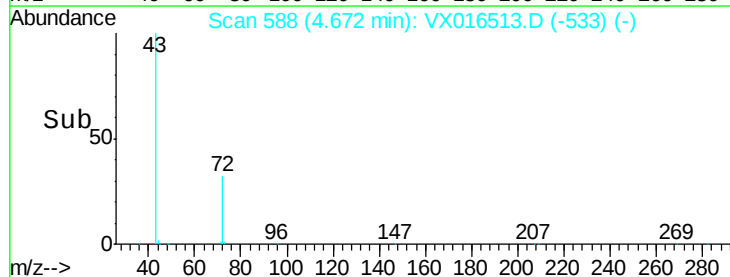
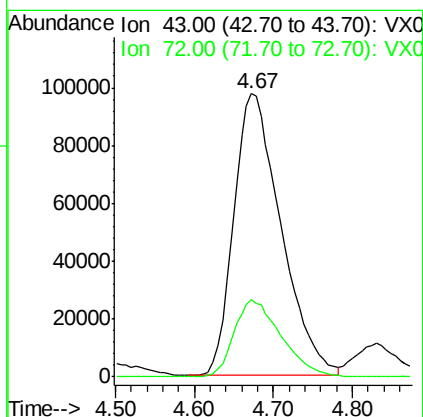
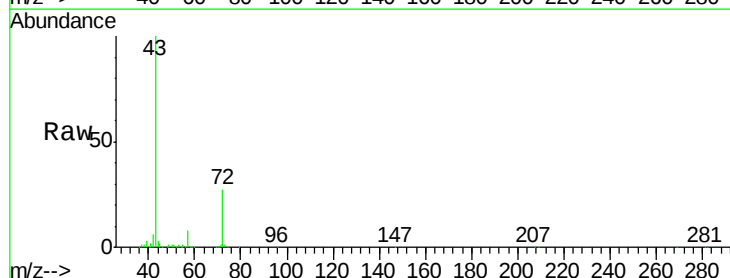
Manual Integrations
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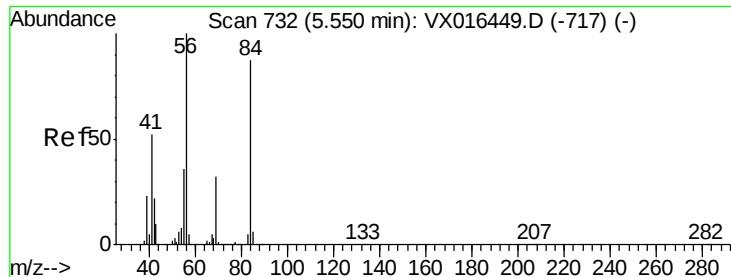
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#25
2-Butanone
Concen: 158.12 ug/l
RT: 4.67 min Scan# 588
Delta R.T. 0.04 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.2	21.0	31.6





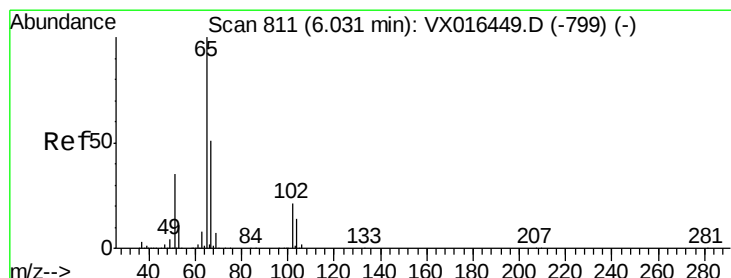
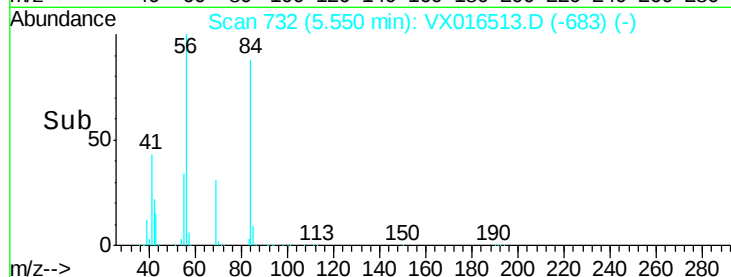
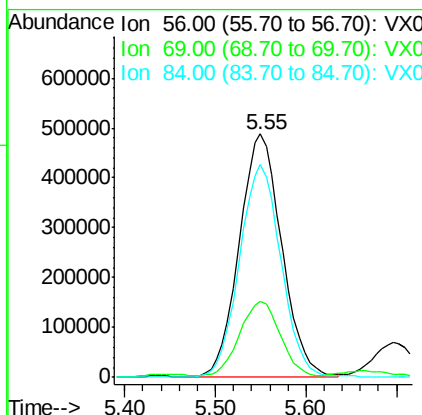
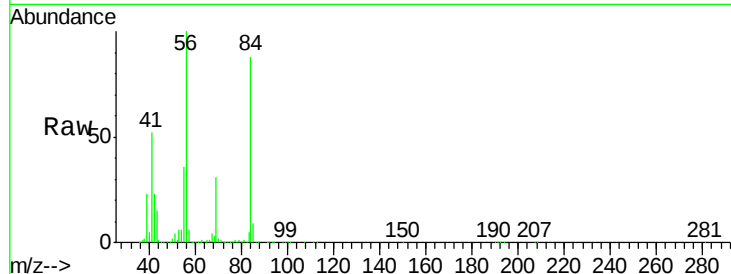
#31
Cyclohexane
Concen: 327.49 ug/l
RT: 5.55 min Scan# 732
Delta R.T. 0.00 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Instrument :
MSVOA_X
ClientSampleId :
32388

Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.3	25.7	38.5
84	87.7	70.0	105.0

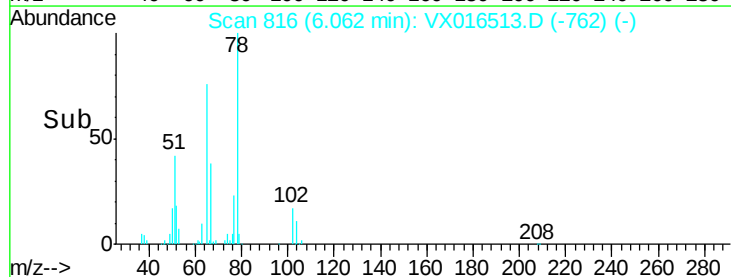
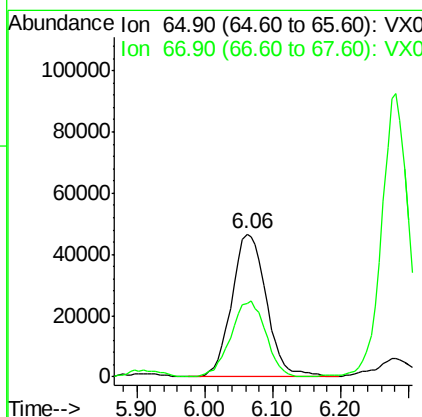
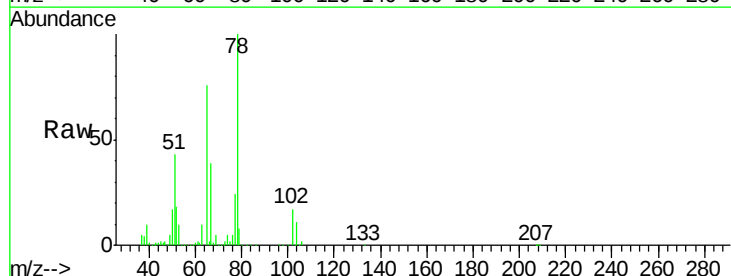
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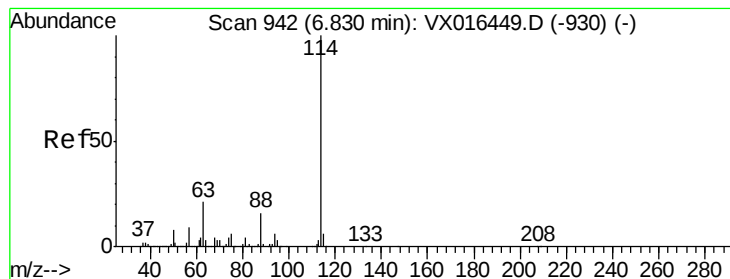
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#33
1,2-Dichloroethane-d4
Concen: 47.45 ug/l
RT: 6.06 min Scan# 816
Delta R.T. 0.03 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	104.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.84 min Scan# 944

Delta R.T. 0.01 min

Lab File: VX016513.D

Acq: 29 May 2020 16:02

Instrument :

MSVOA_X

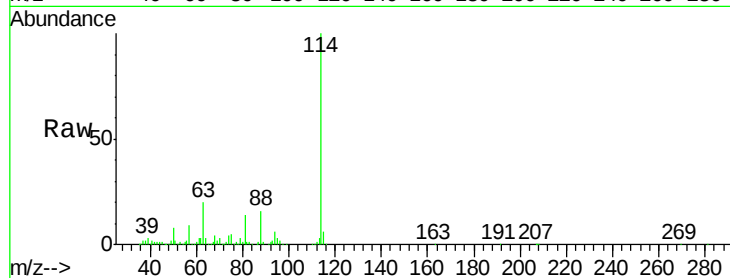
ClientSampleId :

32388

Tgt Ion:	114	Resp:	454608
Ion Ratio	Lower	Upper	
114	100		
63	20.0	0.0	42.6
88	16.1	0.0	32.8

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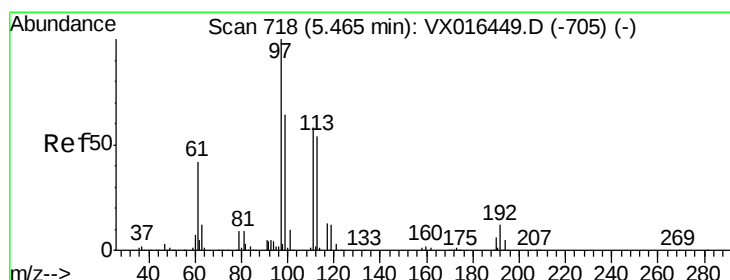
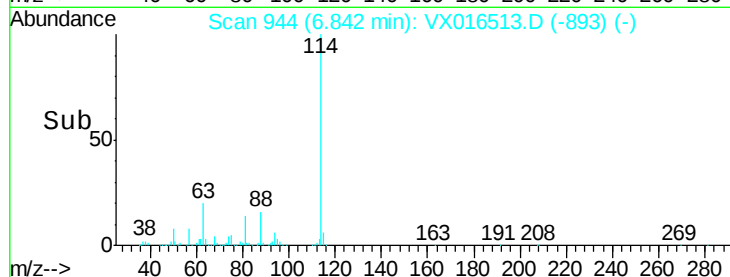
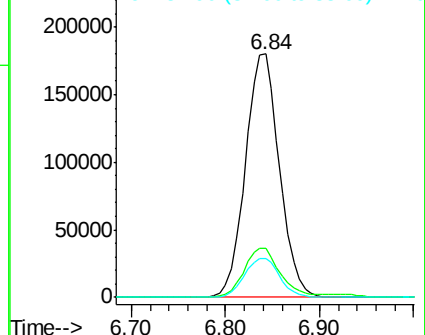
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Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 44.37 ug/l

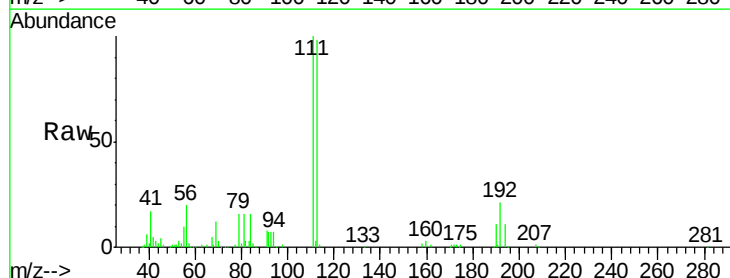
RT: 5.49 min Scan# 722

Delta R.T. 0.02 min

Lab File: VX016513.D

Acq: 29 May 2020 16:02

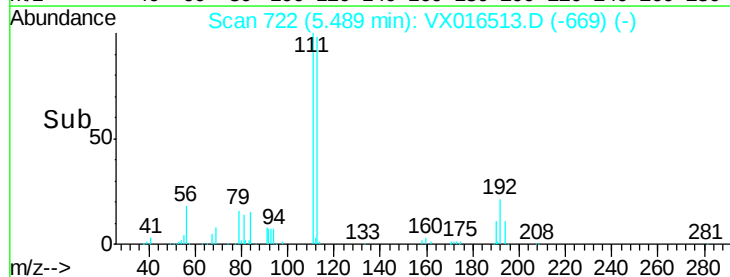
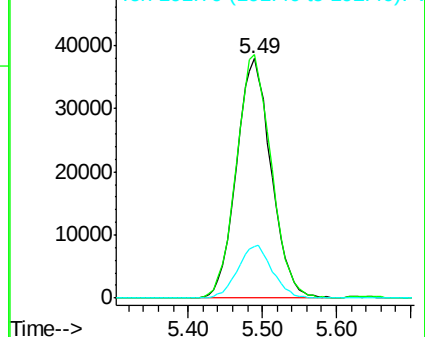
Tgt Ion:	113	Resp:	124194
Ion Ratio	Lower	Upper	
113	100		
111	101.9	83.0	124.6
192	21.8	17.7	26.5

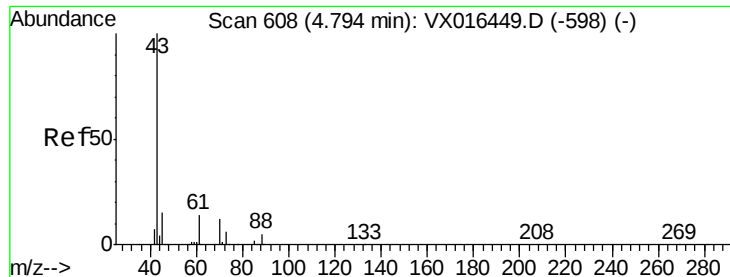


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





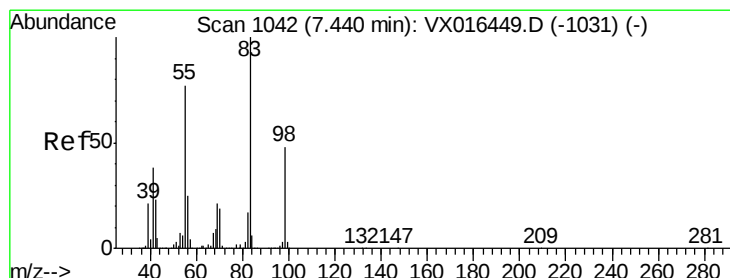
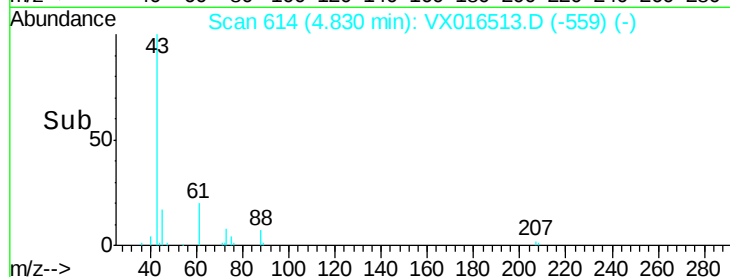
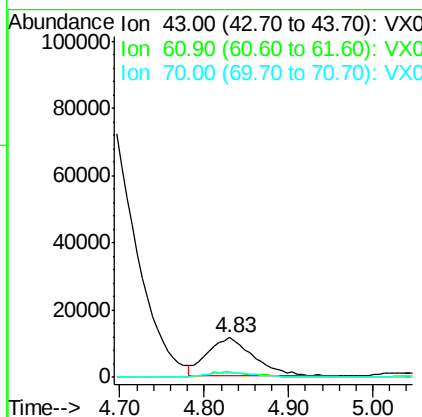
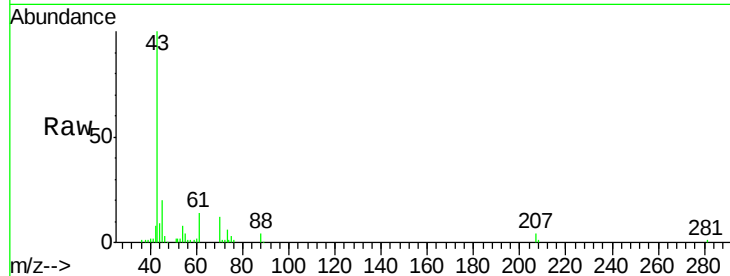
#37
Ethyl Acetate
Concen: 8.42 ug/l
RT: 4.83 min Scan# 614
Delta R.T. 0.04 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Instrument :
MSVOA_X
ClientSampled :
32388

Tgt Ion:	43	Resp:	43532
Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.3	16.9
70	13.7	9.3	13.9

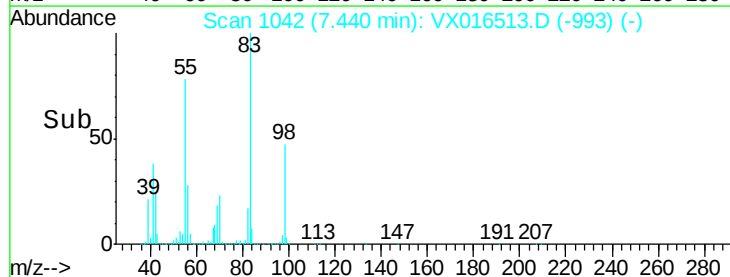
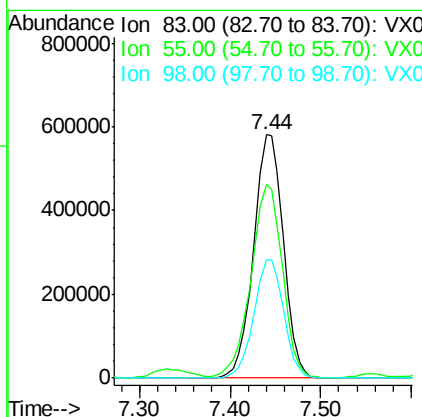
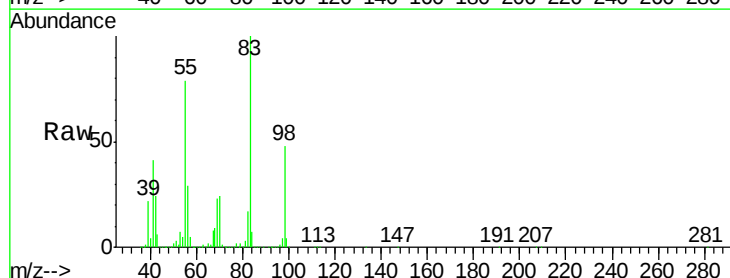
Manual Integrations
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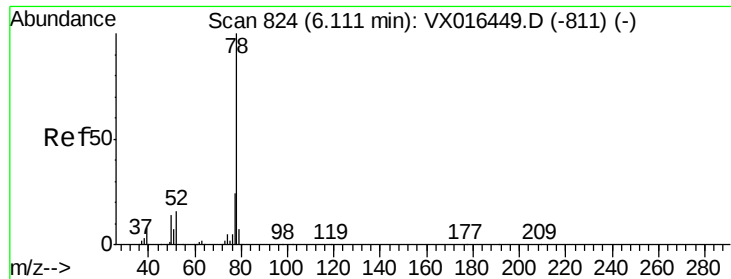
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#39
Methylcyclohexane
Concen: 282.17 ug/l
RT: 7.44 min Scan# 1042
Delta R.T. 0.00 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Tgt Ion:	83	Resp:	1319184
Ion	Ratio	Lower	Upper
83	100		
55	79.2	61.7	92.5
98	48.3	38.7	58.1





#40

Benzene

Concen: 2992.89 ug/l m

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX016513.D

Acq: 29 May 2020 16:02

Instrument :

MSVOA_X

ClientSampleId :

32388

Tgt Ion: 78 Resp: 38362621

Ion Ratio Lower Upper

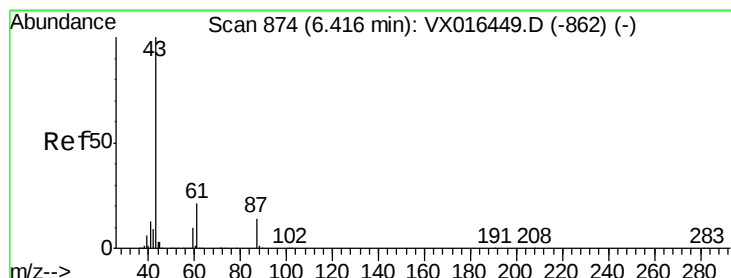
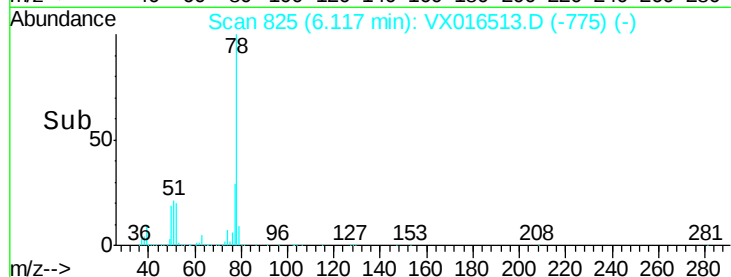
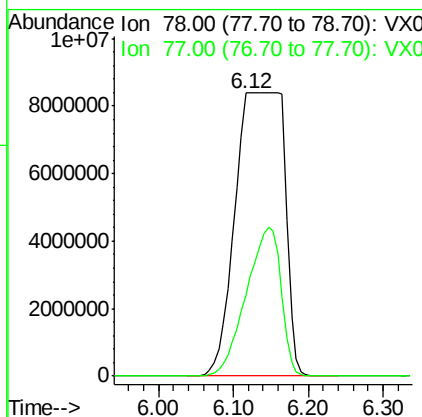
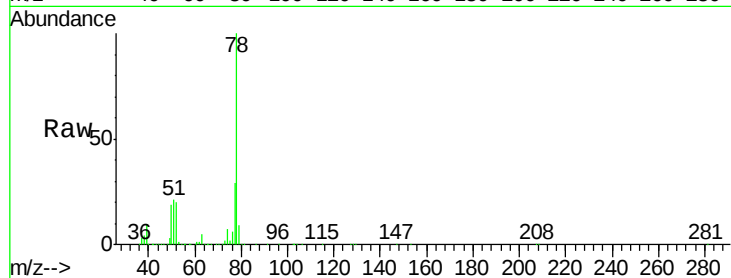
78 100

77 28.8 18.9 28.3#

Manual Integrations
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#43

Isopropyl Acetate

Concen: 12.24 ug/l

RT: 6.42 min Scan# 874

Delta R.T. 0.00 min

Lab File: VX016513.D

Acq: 29 May 2020 16:02

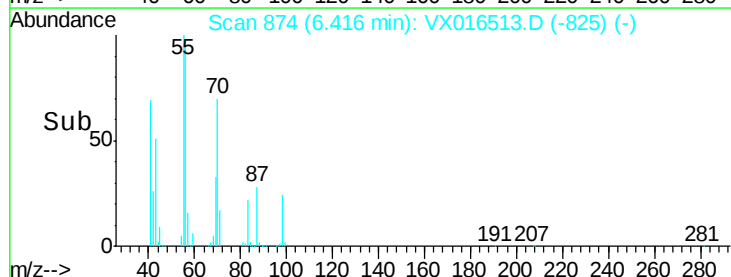
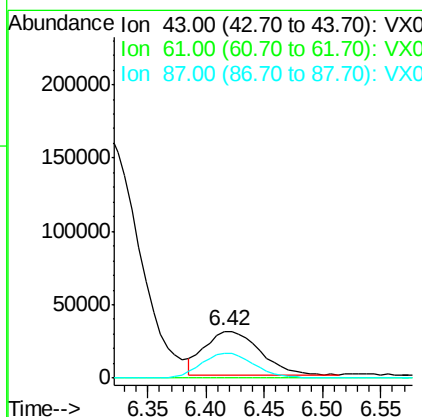
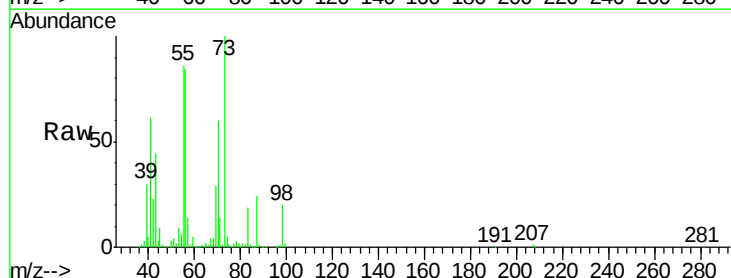
Tgt Ion: 43 Resp: 98690

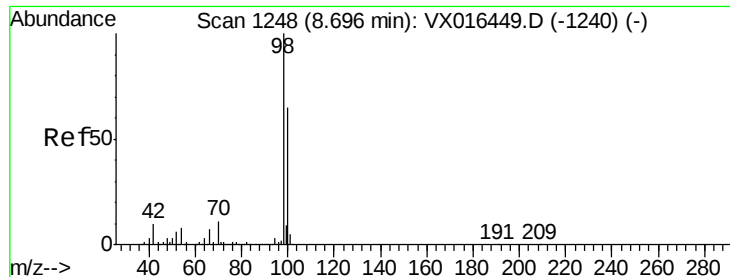
Ion Ratio Lower Upper

43 100

61 0.0 16.8 25.2#

87 55.0 11.2 16.8#





#50

Toluene-d8

Concen: 52.25 ug/l

RT: 8.72 min Scan# 1252

Delta R.T. 0.02 min

Lab File: VX016513.D

Acq: 29 May 2020 16:02

Instrument :

MSVOA_X

ClientSampleId :

32388

Tgt Ion: 98 Resp: 569227

Ion Ratio Lower Upper

98 100

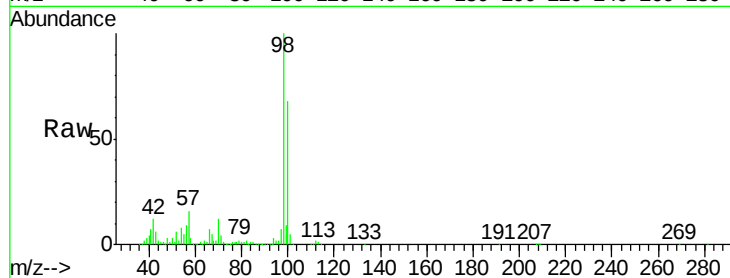
100 70.1 53.8 80.6

Manual Integrations

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Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.72

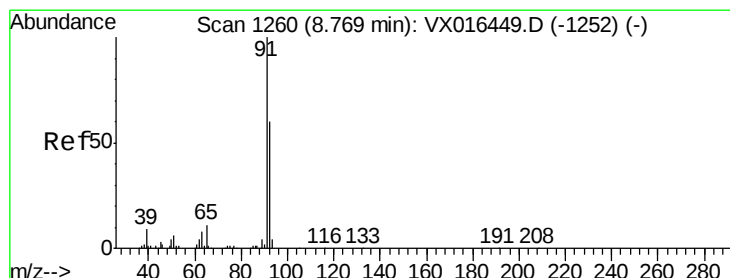
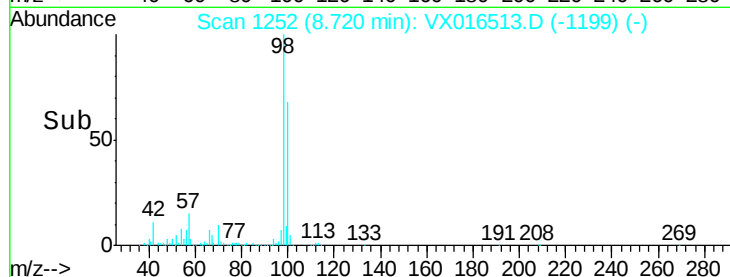
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#52

Toluene

Concen: 6504.27 ug/l m

RT: 8.77 min Scan# 1261

Delta R.T. 0.01 min

Lab File: VX016513.D

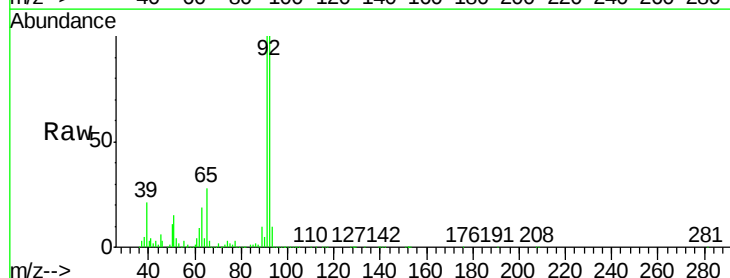
Acq: 29 May 2020 16:02

Tgt Ion: 92 Resp: 52573385

Ion Ratio Lower Upper

92 100

91 0.0 135.0 202.4#



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

1e+07

8000000

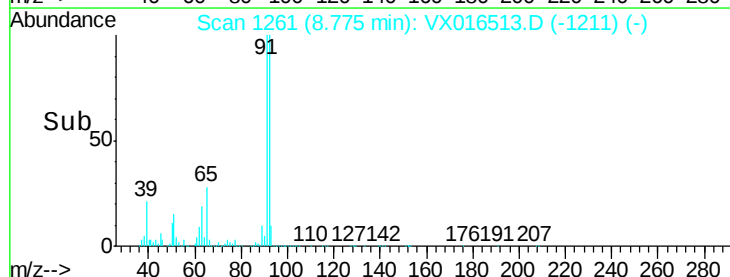
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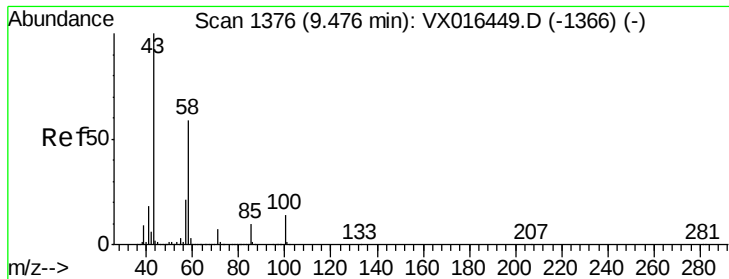
4000000

2000000

0

Time--> 8.60 8.70 8.80 8.90 9.00





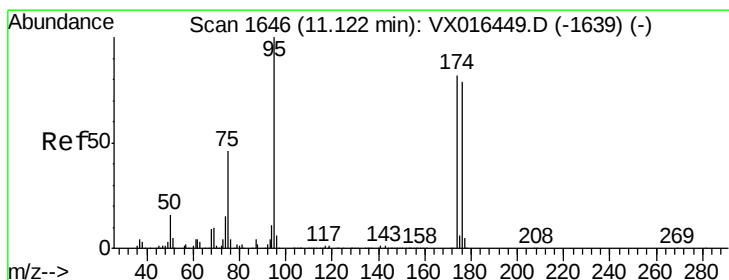
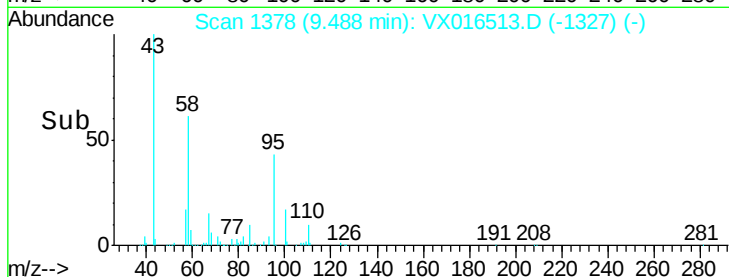
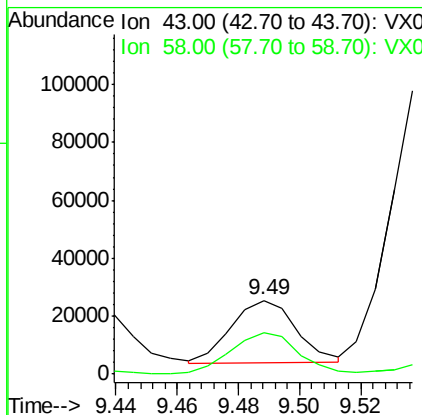
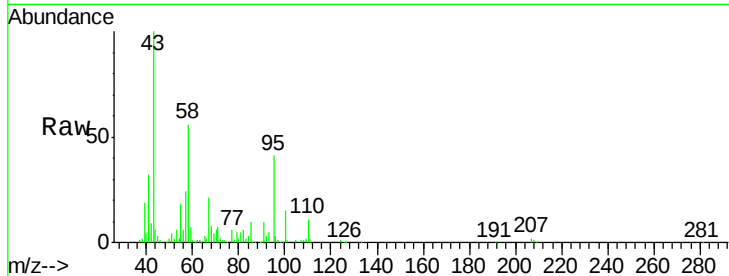
#59
2-Hexanone
Concen: 8.10 ug/l
RT: 9.49 min Scan# 1378
Delta R.T. 0.01 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Instrument :
MSVOA_X
ClientSampleId :
32388

Tgt Ion: 43 Resp: 31634
Ion Ratio Lower Upper
43 100
58 67.3 28.8 86.4

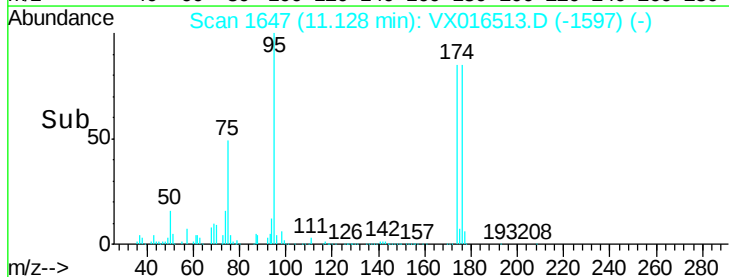
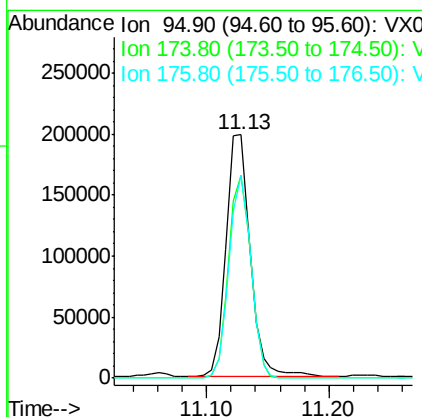
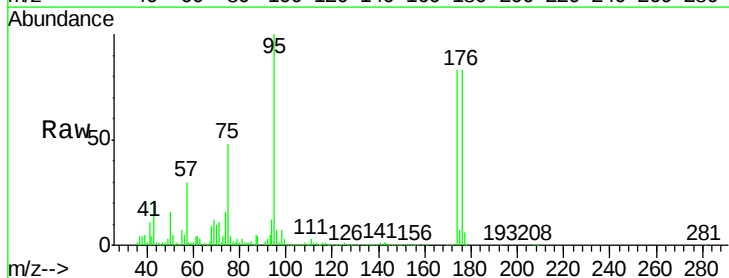
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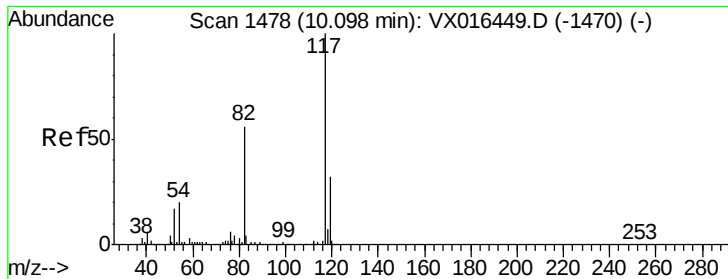
MMDadoda
6/1/2020 12:28:19 PM



#62
4-Bromofluorobenzene
Concen: 64.60 ug/l
RT: 11.13 min Scan# 1647
Delta R.T. 0.01 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Tgt Ion: 95 Resp: 271975
Ion Ratio Lower Upper
95 100
174 77.3 0.0 163.0
176 75.5 0.0 156.8





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.10 min Scan# 1479

Delta R.T. 0.01 min

Lab File: VX016513.D

Acq: 29 May 2020 16:02

Instrument :

MSVOA_X

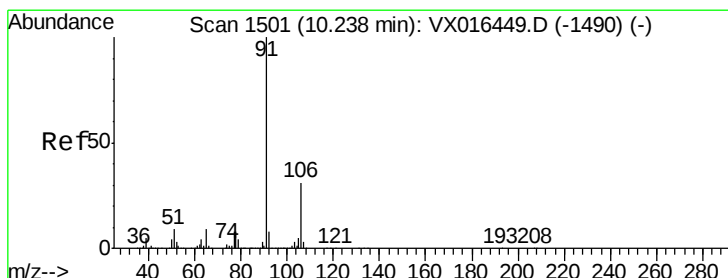
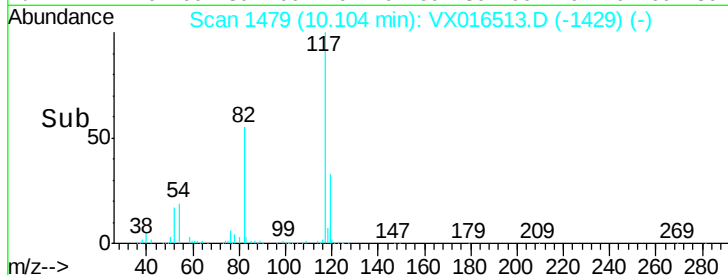
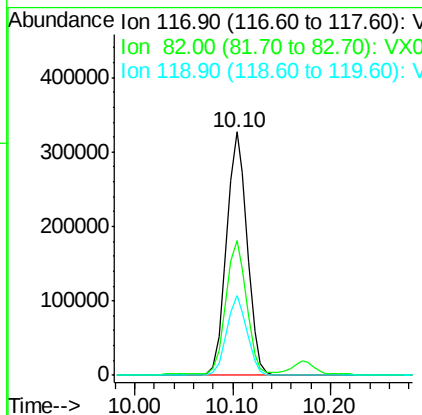
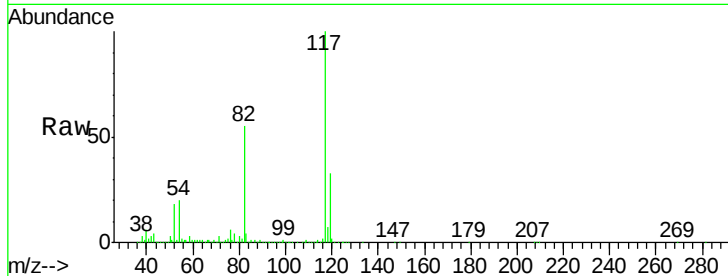
ClientSampleId :

32388

Tgt Ion:	117	Resp:	477405
Ion	Ratio	Lower	Upper
117	100		
82	54.9	45.0	67.6
119	32.5	25.8	38.8

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#67

Ethyl Benzene

Concen: 1327.04 ug/l m

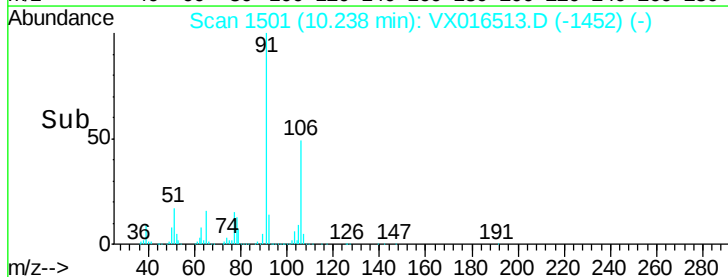
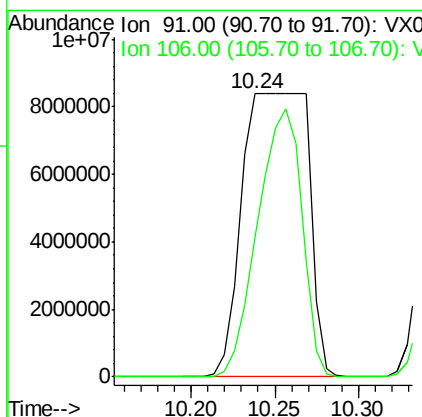
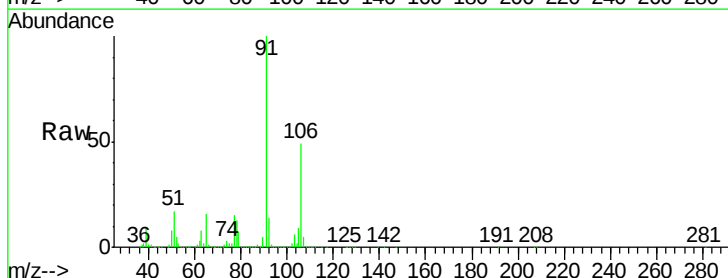
RT: 10.24 min Scan# 1501

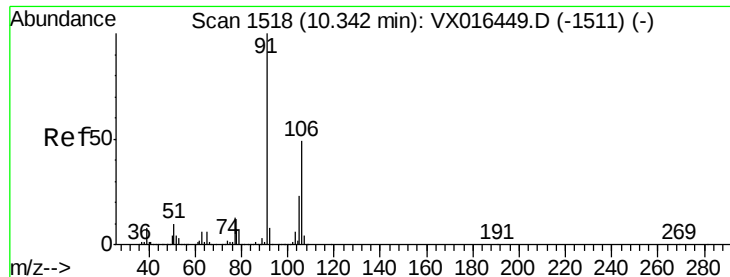
Delta R.T. 0.00 min

Lab File: VX016513.D

Acq: 29 May 2020 16:02

Tgt Ion:	91	Resp:	22996139
Ion	Ratio	Lower	Upper
91	100		
106	49.5	25.0	37.4#





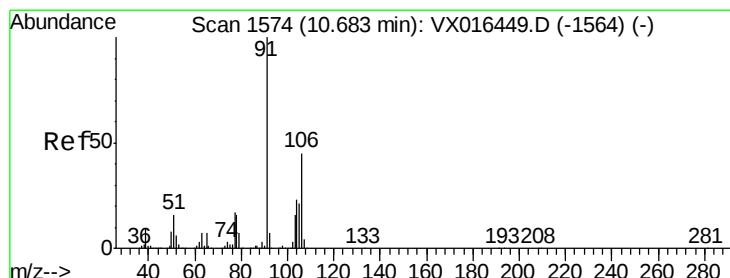
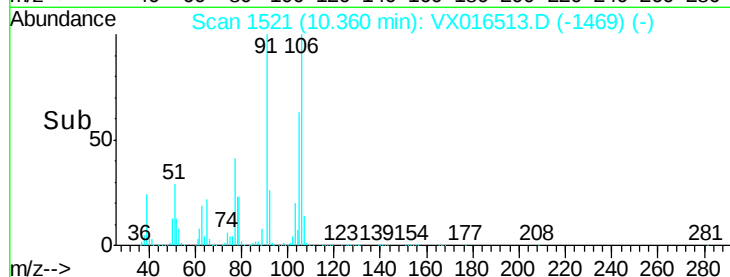
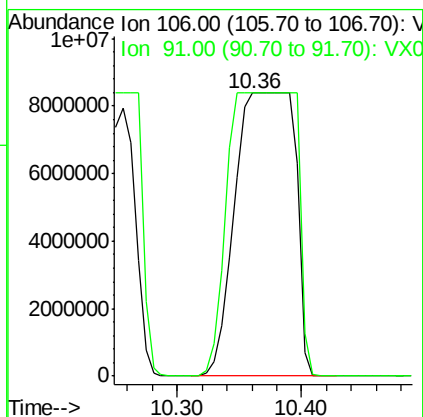
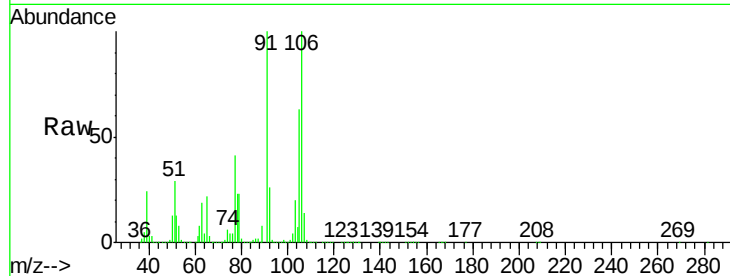
#68
m/p-Xylenes
Concen: 4375.01 ug/l m
RT: 10.36 min Scan# 1521
Delta R.T. 0.02 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Instrument :
MSVOA_X
ClientSampleId :
32388

Tgt Ion:106 Resp:28109587
Ion Ratio Lower Upper
106 100
91 0.0 163.8 245.8#

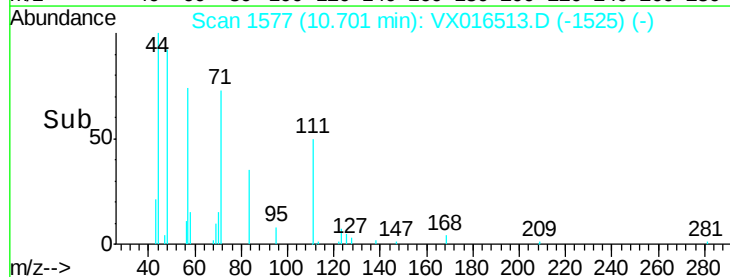
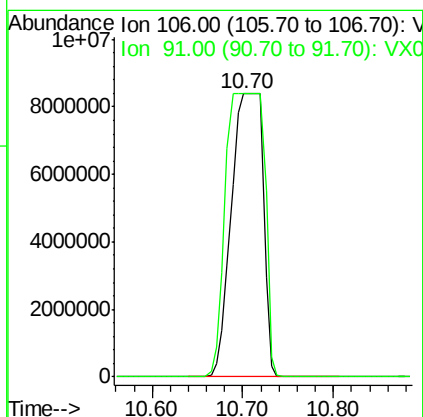
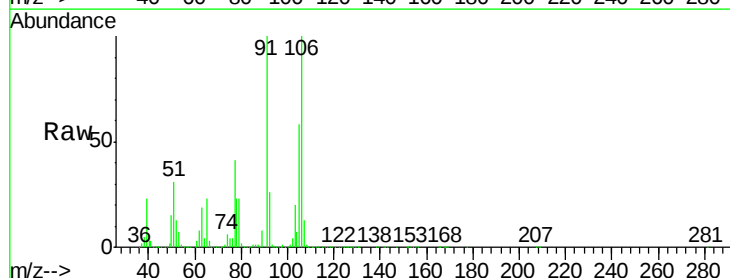
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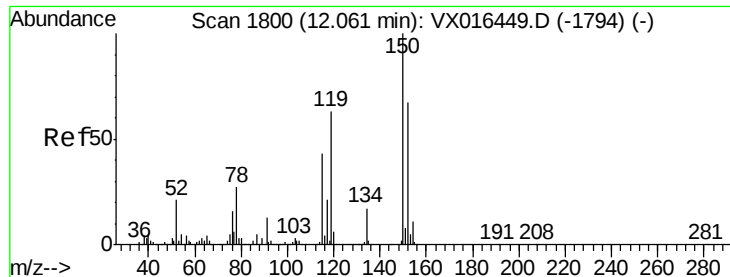
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#69
o-Xylene
Concen: 3261.37 ug/l
RT: 10.70 min Scan# 1577
Delta R.T. 0.02 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Tgt Ion:106 Resp:20293389
Ion Ratio Lower Upper
106 100
91 0.0 109.6 328.8#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. 0.01 min

Lab File: VX016513.D

Acq: 29 May 2020 16:02

Instrument :

MSVOA_X

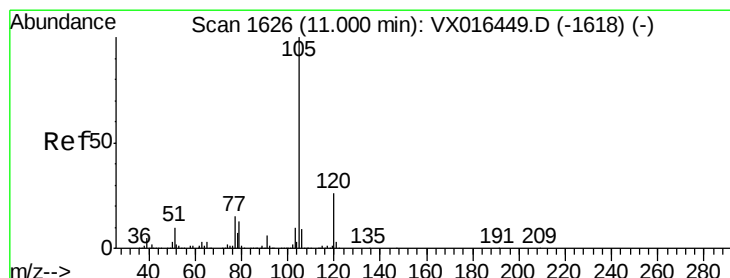
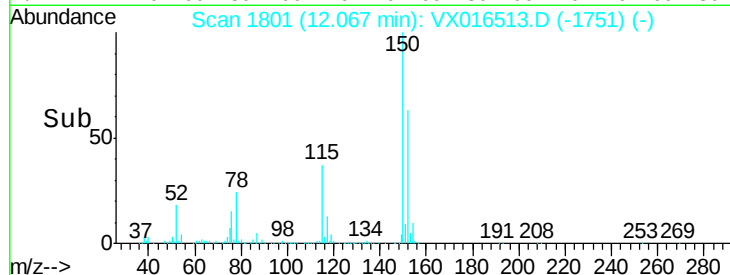
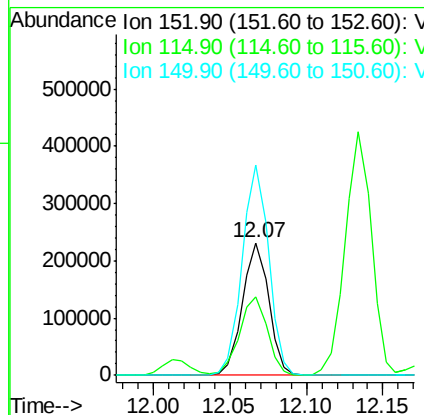
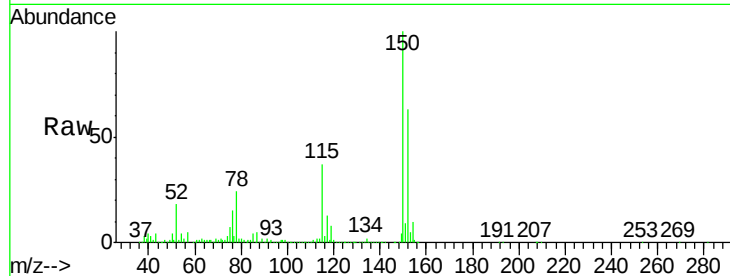
ClientSampled :

32388

Tgt Ion:	152	Resp:	275491
Ion Ratio	Lower	Upper	
152	100		
115	62.2	39.9	119.6
150	159.9	0.0	341.0

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#73

Isopropylbenzene

Concen: 160.22 ug/l

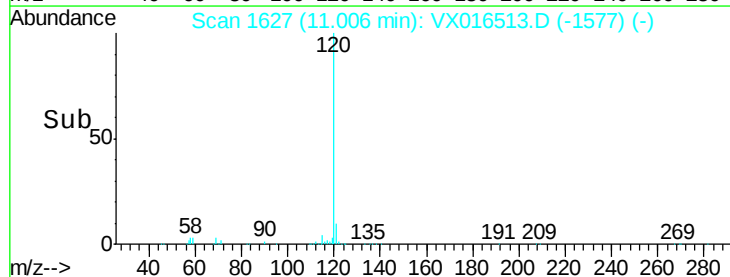
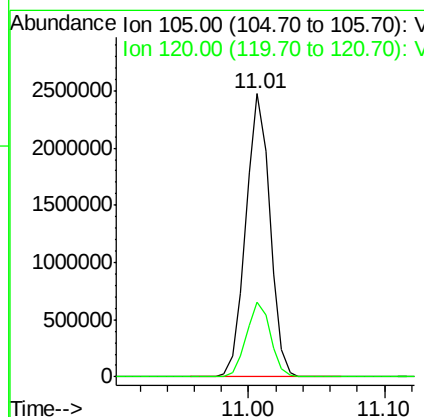
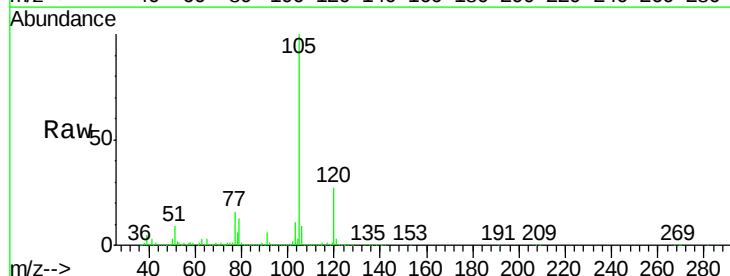
RT: 11.01 min Scan# 1627

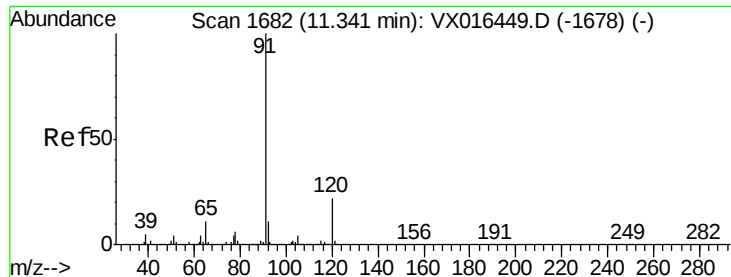
Delta R.T. 0.01 min

Lab File: VX016513.D

Acq: 29 May 2020 16:02

Tgt Ion:	105	Resp:	3058398
Ion Ratio	Lower	Upper	
105	100		
120	26.3	13.1	39.3





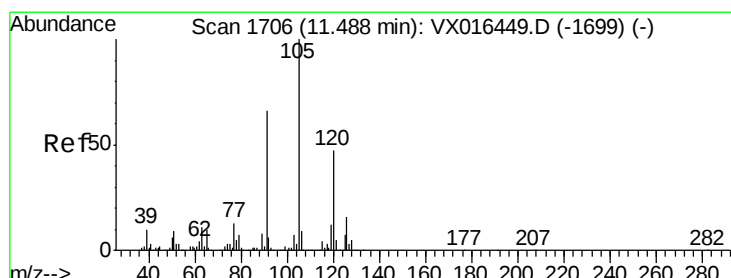
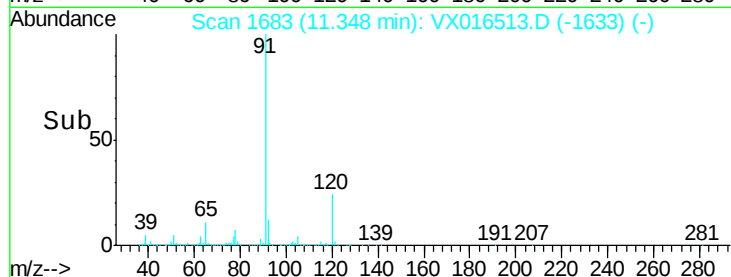
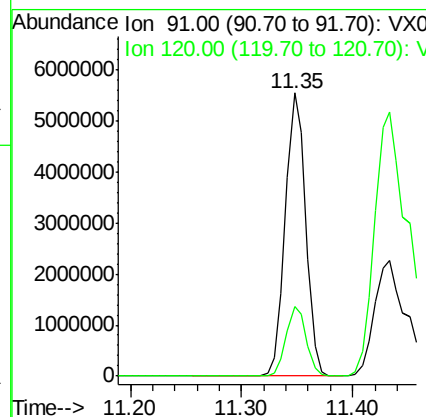
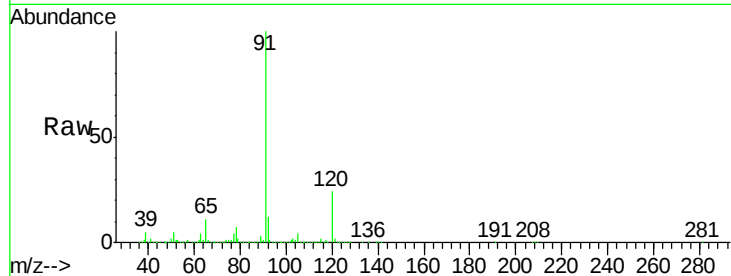
#78
n-propylbenzene
Concen: 330.63 ug/l
RT: 11.35 min Scan# 1683
Delta R.T. 0.01 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Instrument :
MSVOA_X
ClientSampleId :
32388

Tgt Ion: 91 Resp: 7050875
Ion Ratio Lower Upper
91 100
120 24.1 11.6 34.7

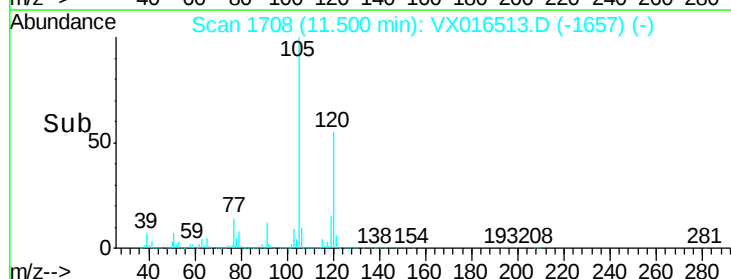
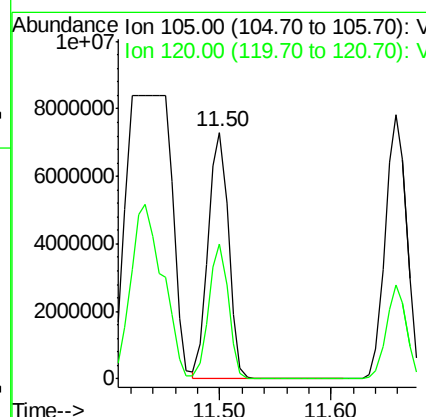
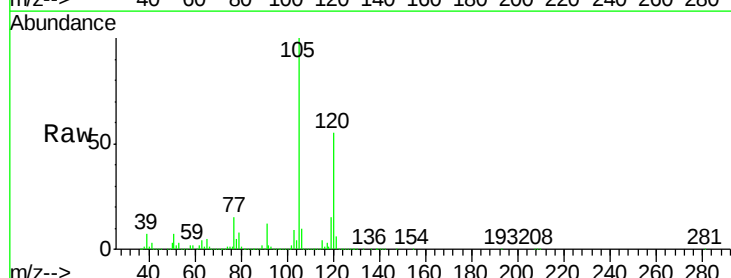
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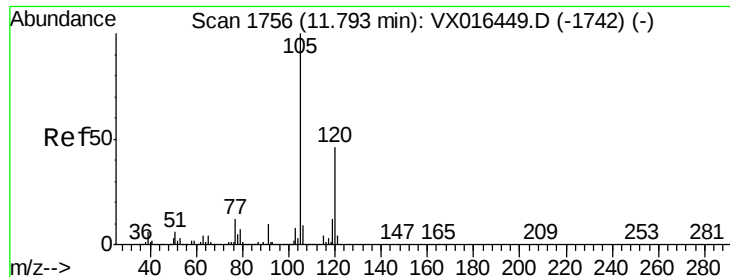
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#80
1,3,5-Trimethylbenzene
Concen: 586.45 ug/l
RT: 11.50 min Scan# 1708
Delta R.T. 0.01 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Tgt Ion: 105 Resp: 9347101
Ion Ratio Lower Upper
105 100
120 52.4 24.3 72.8





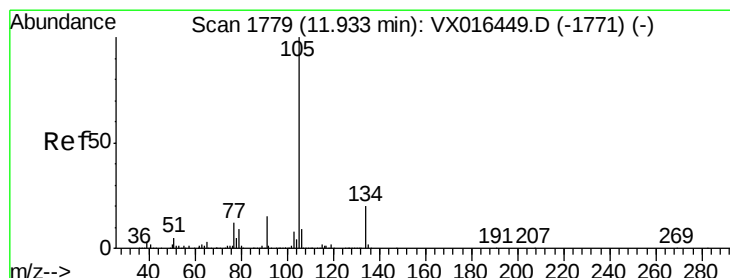
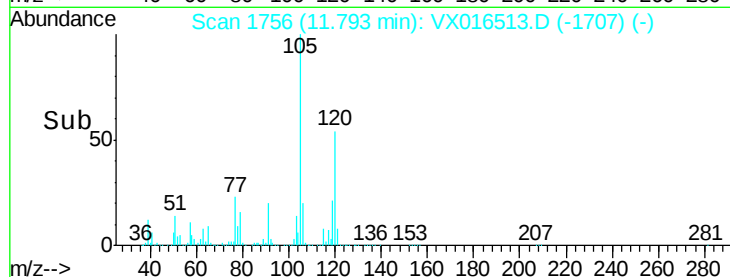
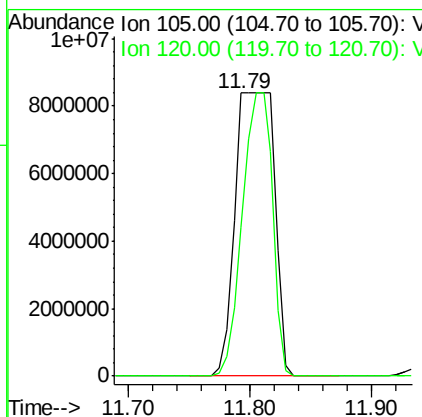
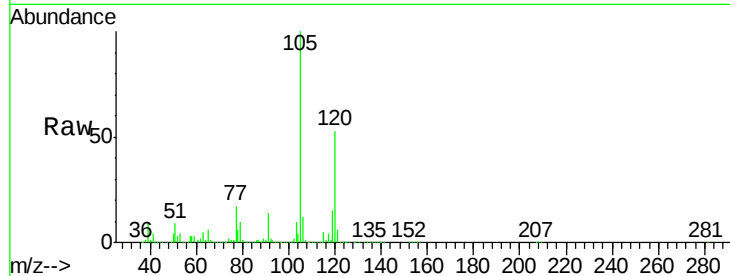
#84
 1,2,4-Trimethylbenzene
 Concen: 1186.65 ug/l m
 RT: 11.79 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VX016513.D
 Acq: 29 May 2020 16:02

Instrument :
 MSVOA_X
 ClientSampleId :
 32388

Tgt Ion:105 Resp:19127337
 Ion Ratio Lower Upper
 105 100
 120 18.3 22.6 67.7#

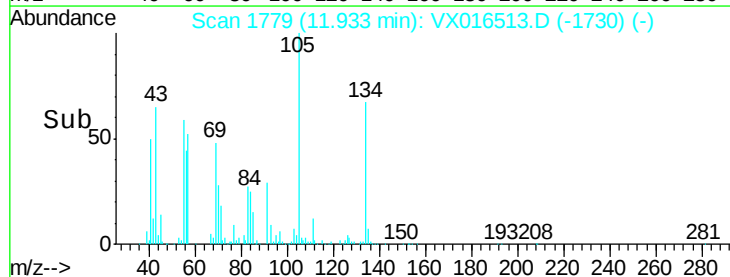
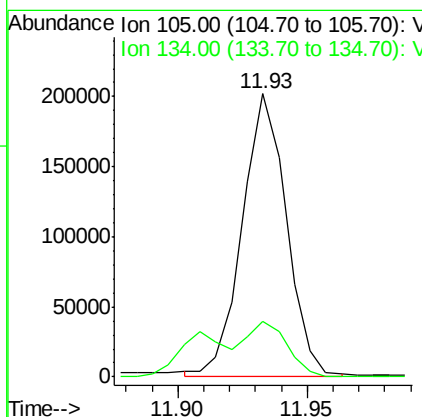
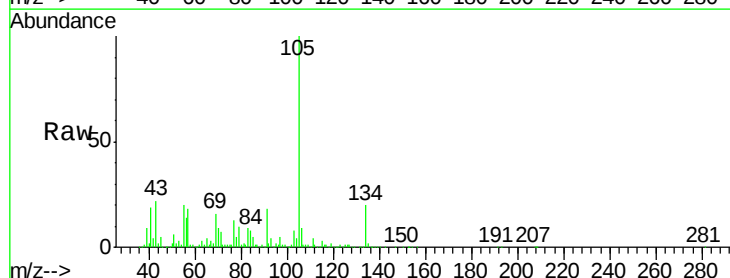
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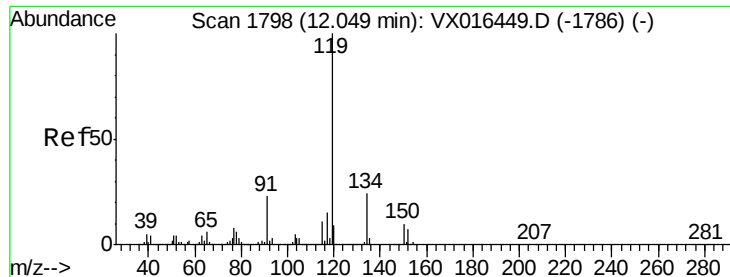
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#85
 sec-Butylbenzene
 Concen: 14.11 ug/l m
 RT: 11.93 min Scan# 1779
 Delta R.T. 0.00 min
 Lab File: VX016513.D
 Acq: 29 May 2020 16:02

Tgt Ion:105 Resp: 241078
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.3#





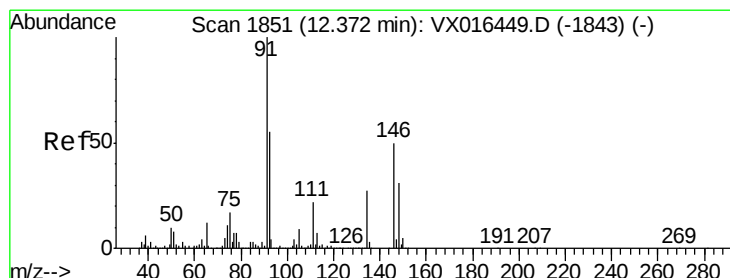
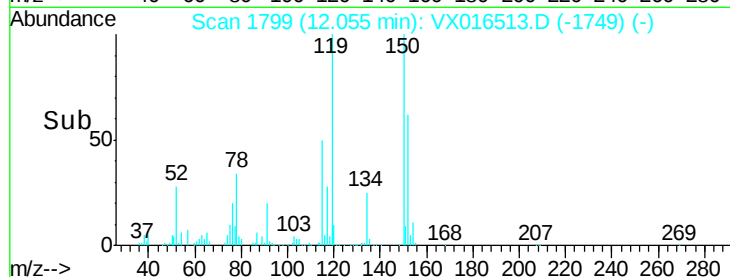
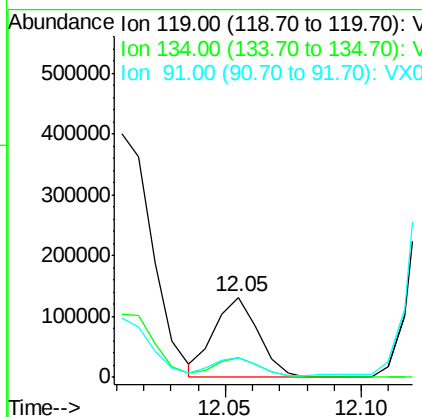
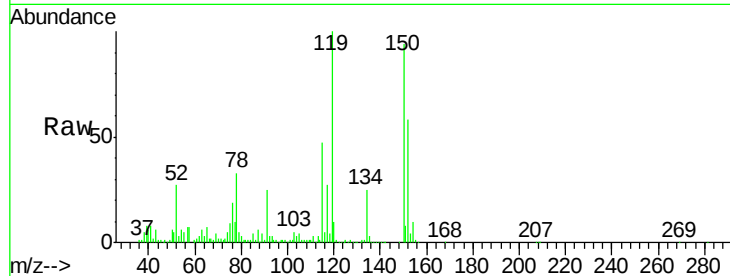
#86
p-Isopropyltoluene
Concen: 9.23 ug/l
RT: 12.05 min Scan# 1799
Delta R.T. 0.01 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Instrument :
MSVOA_X
ClientSampled :
32388

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.7	38.0
91	0.0	11.7	35.0#

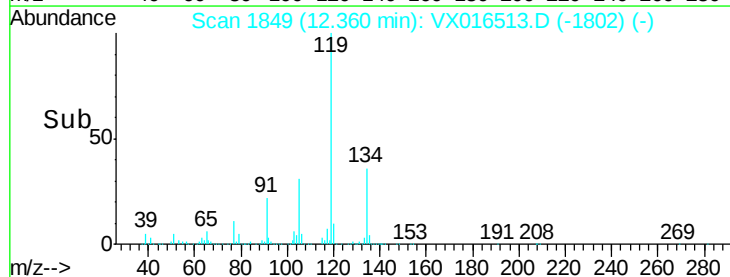
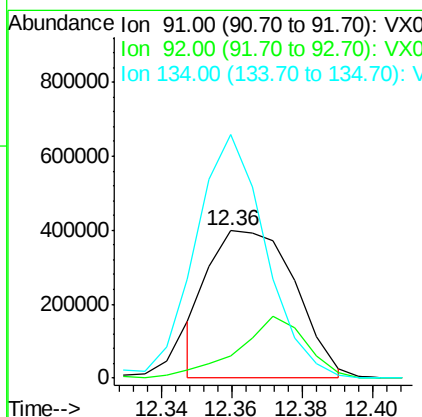
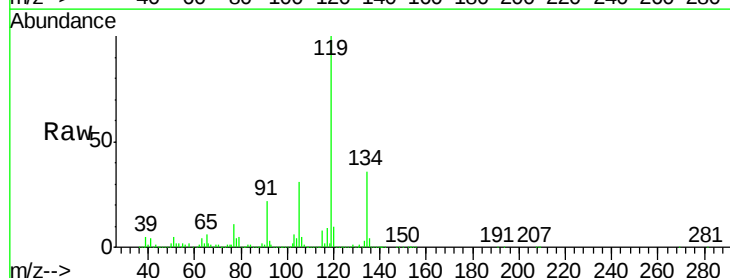
Manual Integrations
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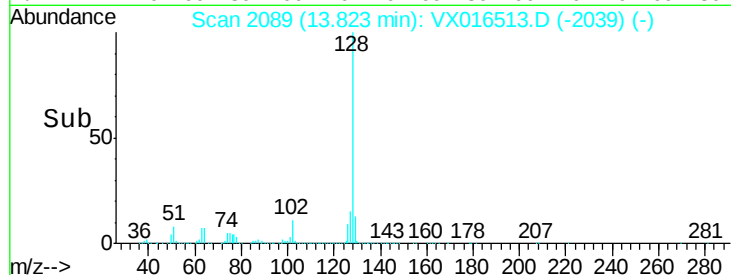
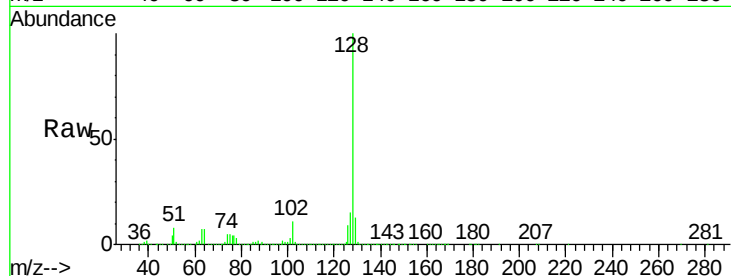
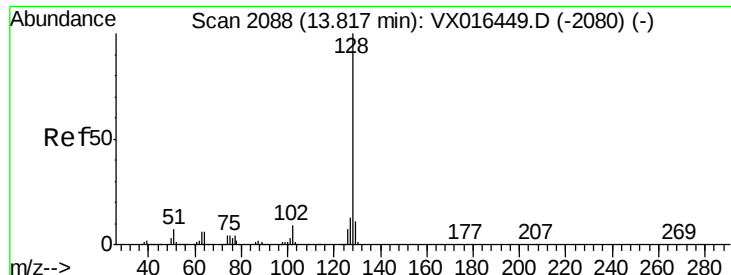
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#89
n-Butylbenzene
Concen: 51.19 ug/l m
RT: 12.36 min Scan# 1849
Delta R.T. -0.01 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	33.2	27.2	81.5
134	133.3	13.1	39.3#





#95
Naphthalene
Concen: 568.89 ug/l
RT: 13.82 min Scan# 2089
Delta R.T. 0.01 min
Lab File: VX016513.D
Acq: 29 May 2020 16:02

Tgt Ion:128 Resp:10884338
Ion Ratio Lower Upper
128 100
127 14.2 10.6 15.8
129 12.3 8.6 13.0

Instrument :
MSVOA_X
ClientSampleId :
32388

Manual Integrations
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