

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv070720\
 Data File : VY003127.D
 Acq On : 07 Jul 2020 15:26
 Operator : SY/MD
 Sample : L3217-02
 Misc : 5.03G/5ML/MSVOA Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 E3-41-NHS

Manual Integrations
 APPROVED

MMDadoda
 7/8/2020 12:20:45 PM

Quant Time: Jul 14 13:52:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y062920S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 30 04:11:35 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	265716	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	418746	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	395623	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	187421	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.14	65	140841	53.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.74%	
35) Dibromofluoromethane	7.72	113	134819	51.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.22%	
50) Toluene-d8	10.18	98	507885	52.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.38%	
62) 4-Bromofluorobenzene	12.48	95	172345	50.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.62%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.97	59	16737	62.230	ug/l #	87
16) Acetone	3.96	43	181523	291.639	ug/l	97
18) Methyl Acetate	4.49	43	39108	23.322	ug/l	96
20) Methylene Chloride	4.72	84	107977	37.073	ug/l	92
24) 1,1-Dichloroethane	6.02	63	11334	2.406	ug/l	98
25) 2-Butanone	7.00	43	95028	96.112	ug/l	97
30) Chloroform	7.52	83	53462	11.454	ug/l	97
32) 1,1,1-Trichloroethane	7.71	97	205349	48.197	ug/l	99
39) Methylcyclohexane	9.19	83	7320	1.464	ug/l	89
40) Benzene	8.16	78	27548	2.495	ug/l	94
44) Trichloroethene	8.95	130	12471	3.886	ug/l	90
52) Toluene	10.25	92	547120	78.706	ug/l	100
64) Tetrachloroethene	10.72	164	7246	2.164	ug/l	94
67) Ethyl Benzene	11.59	91	48097	3.370	ug/l	100
68) m/p-Xylenes	11.69	106	45433	8.554	ug/l	96
69) o-Xylene	12.03	106	21580	4.312	ug/l	96
73) Isopropylbenzene	12.33	105	61808	5.039	ug/l	98
78) n-propylbenzene	12.67	91	190856	12.938	ug/l	100
80) 1,3,5-Trimethylbenzene	12.81	105	365777	35.537	ug/l	97
84) 1,2,4-Trimethylbenzene	13.12	105	817754	78.845	ug/l	100
85) sec-Butylbenzene	13.25	105	87900	7.056	ug/l #	74
86) p-Isopropyltoluene	13.37	119	81352	7.048	ug/l	100
89) n-Butylbenzene	13.69	91	35094m	3.178	ug/l	
91) 1,2-Dichlorobenzene	13.74	146	462853	87.861	ug/l	93

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

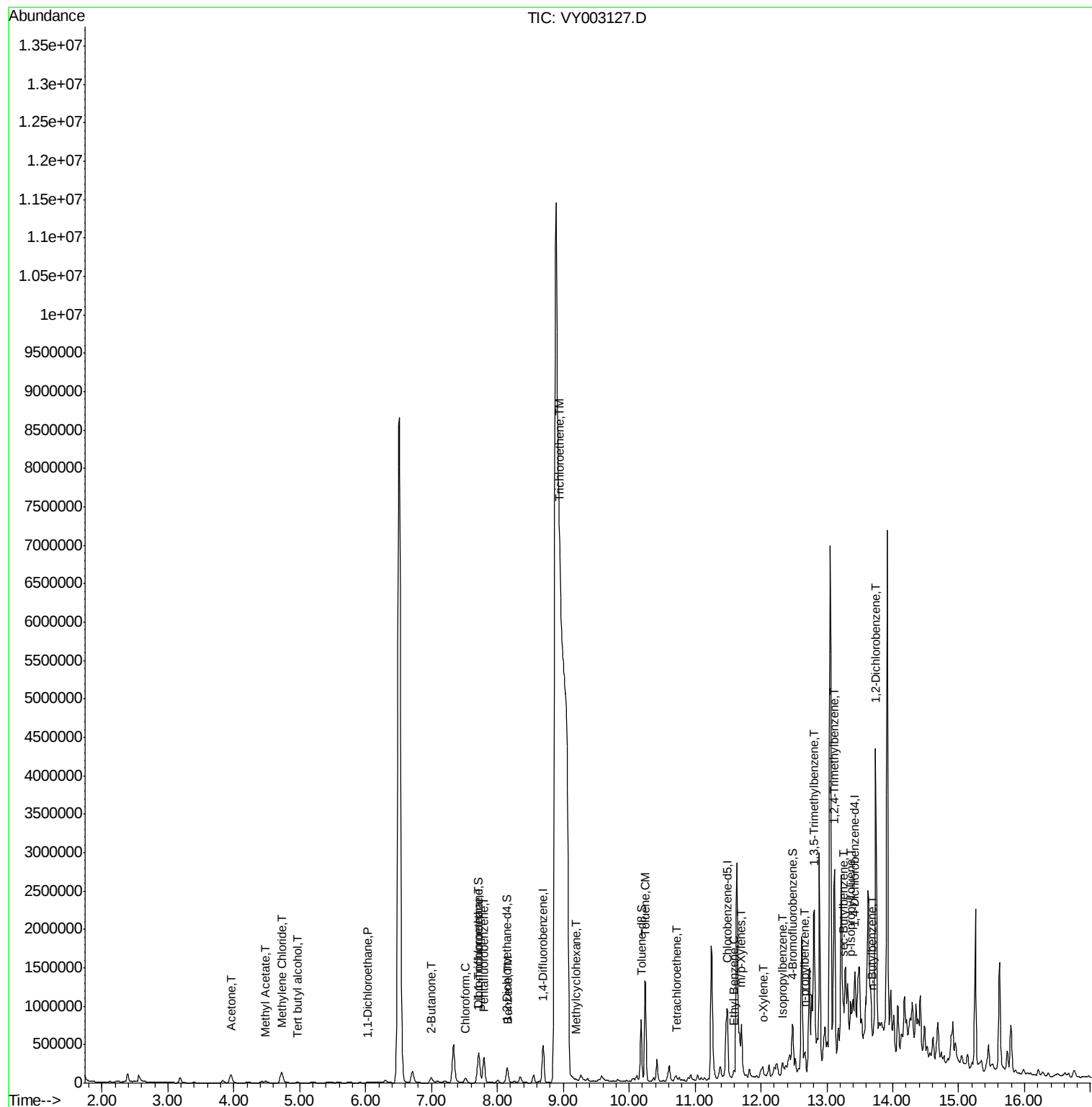
Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv070720\
Data File : VY003127.D
Acq On : 07 Jul 2020 15:26
Operator : SY/MD
Sample : L3217-02
Misc : 5.03G/5ML/MSVOA Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

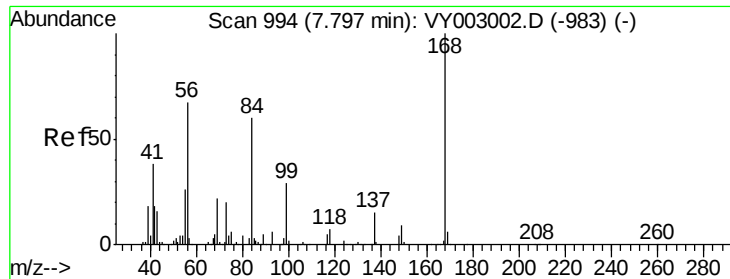
Instrument :
MSVOA_Y
ClientSampleId :
E3-41-NHS

Manual Integrations
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7/8/2020 12:20:45 PM

Quant Time: Jul 14 13:52:56 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y062920S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 30 04:11:35 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA_Y

ClientSampleId :

E3-41-NHS

Tot Ion:168 Resp: 265716

Ion Ratio Lower Upper

168 100

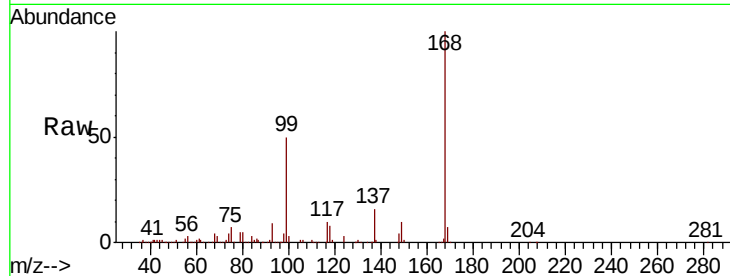
99 50.1 39.2 58.8

Manual Integrations

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7/8/2020 12:20:45 PM



Abundance Ion 167.90 (167.60 to 168.60): VY003127.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY003127.D (-945) (-)

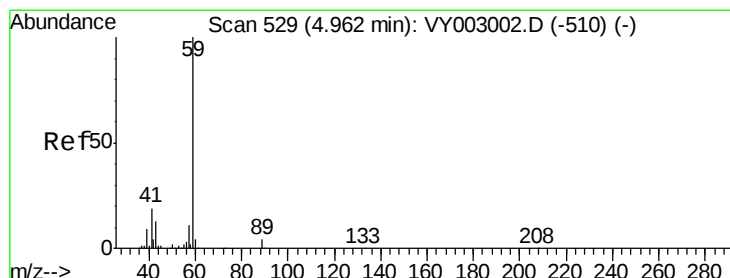
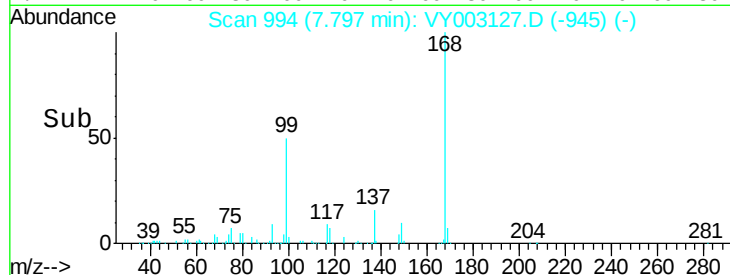
7.80

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 62.230 ug/l

RT: 4.97 min Scan# 530

Delta R.T. 0.01 min

Lab File: VY003127.D

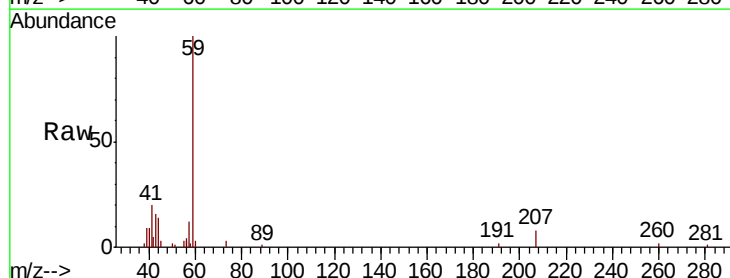
Acq: 07 Jul 2020 15:26

Tgt Ion: 59 Resp: 16737

Ion Ratio Lower Upper

59 100

57 5.2 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VY003127.D (-480) (-)

Ion 57.00 (56.70 to 57.70): VY003127.D (-480) (-)

4.97

5000

4000

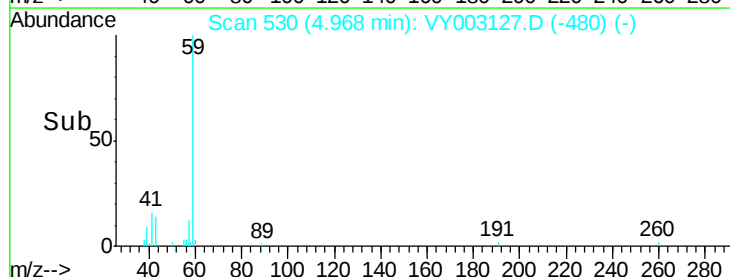
3000

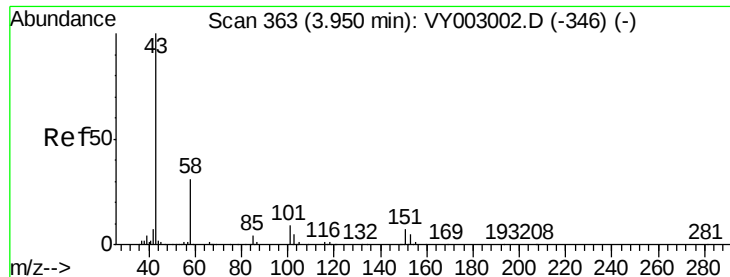
2000

1000

0

Time-->





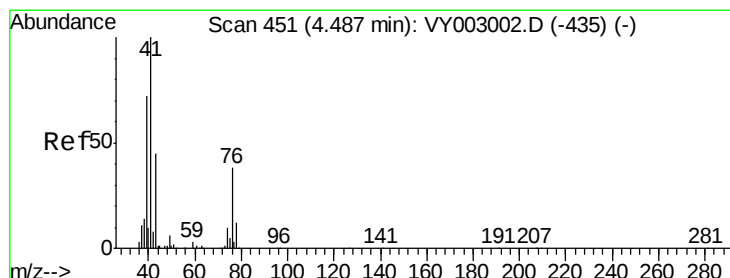
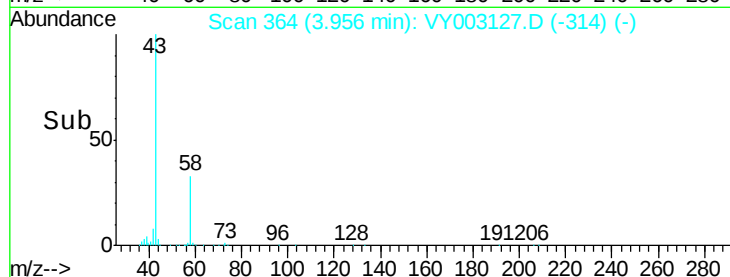
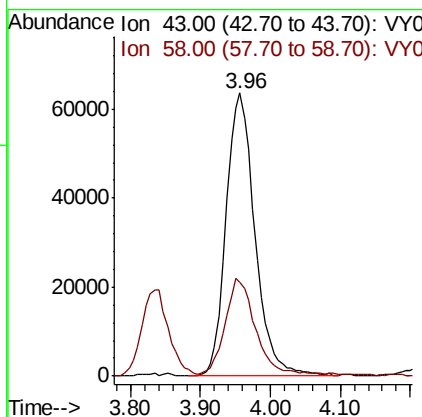
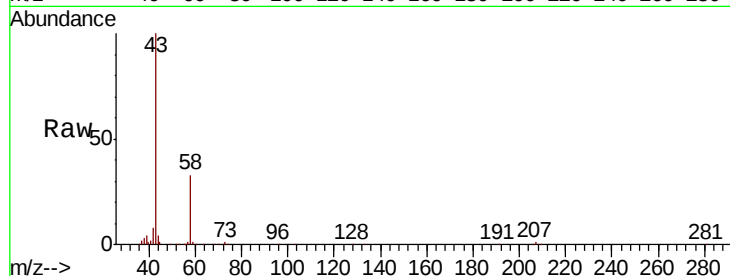
#16
Acetone
Concen: 291.639 ug/l
RT: 3.96 min Scan# 364
Delta R.T. 0.01 min
Lab File: VY003127.D
Acq: 07 Jul 2020 15:26

Instrument :
MSVOA_Y
ClientSampleId :
E3-41-NHS

Tot Ion: 43 Resp: 181523
Ion Ratio Lower Upper
43 100
58 32.5 24.7 37.1

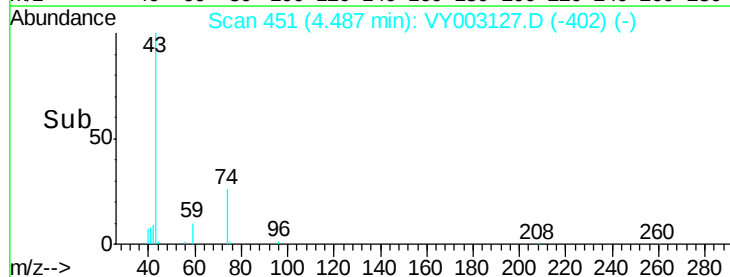
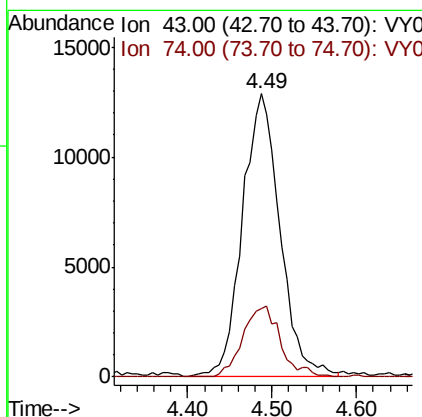
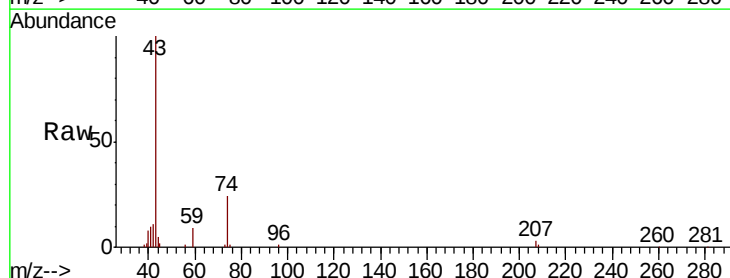
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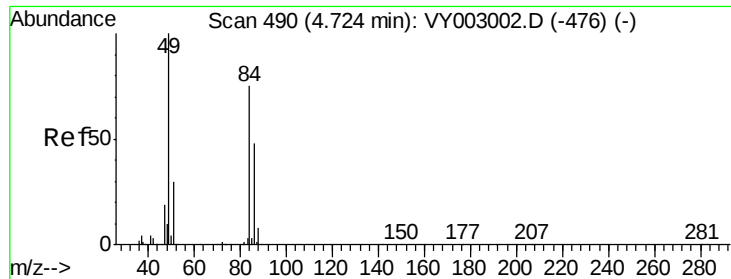
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#18
Methyl Acetate
Concen: 23.322 ug/l
RT: 4.49 min Scan# 451
Delta R.T. 0.00 min
Lab File: VY003127.D
Acq: 07 Jul 2020 15:26

Tgt Ion: 43 Resp: 39108
Ion Ratio Lower Upper
43 100
74 24.8 18.2 27.4





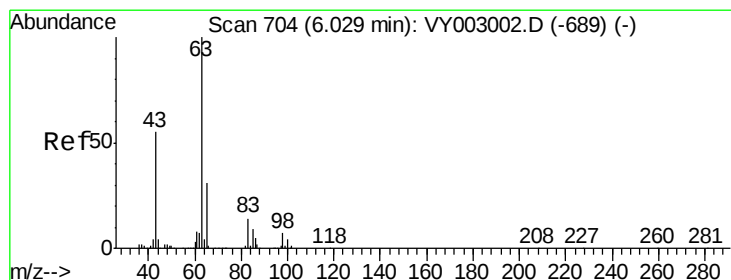
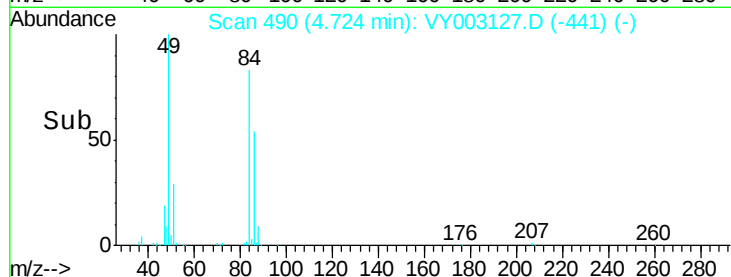
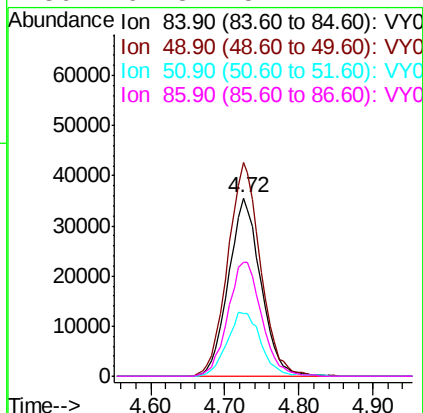
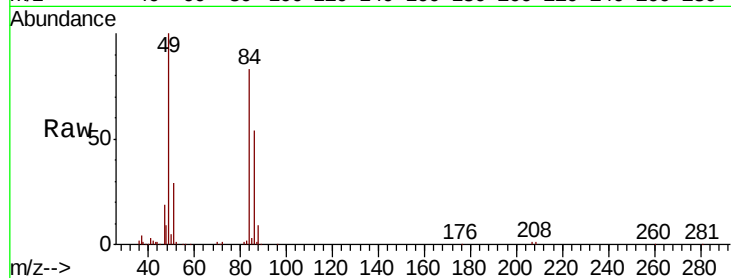
#20
Methvlene Chloride
Concen: 37.073 ug/l
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY003127.D
Acq: 07 Jul 2020 15:26

Instrument :
MSVOA_Y
ClientSampleId :
E3-41-NHS

Tot Ion	84	Resp	107977
Ion	Ratio	Lower	Upper
84	100		
49	119.8	106.8	160.2
51	35.3	32.0	48.0
86	64.3	51.4	77.2

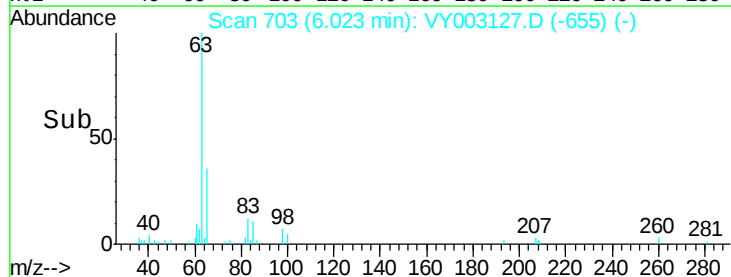
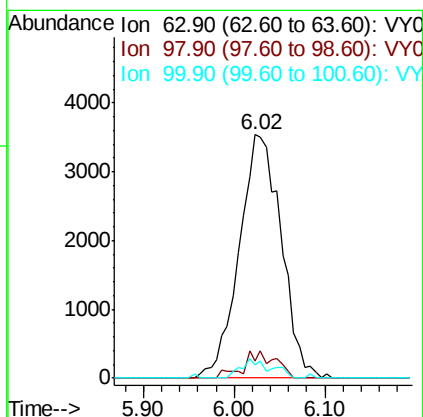
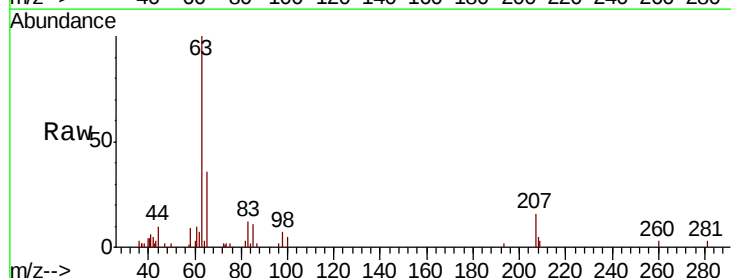
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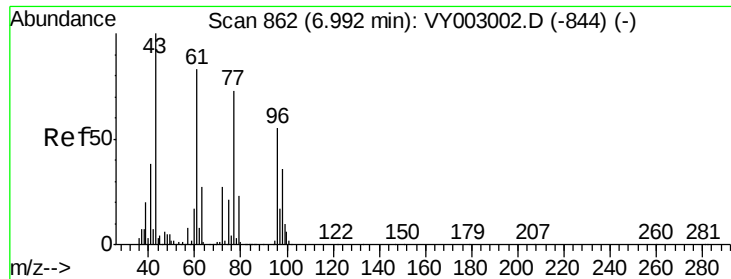
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#24
1,1-Dichloroethane
Concen: 2.406 ug/l
RT: 6.02 min Scan# 703
Delta R.T. -0.01 min
Lab File: VY003127.D
Acq: 07 Jul 2020 15:26

Tgt Ion	63	Resp	11334
Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.4	10.1
100	5.4	2.3	6.8





#25

2-Butanone

Concen: 96.112 ug/l

RT: 7.00 min Scan# 863

Delta R.T. 0.01 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA_Y

ClientSampleId :

E3-41-NHS

Tot Ion: 43 Resp: 95028

Ion Ratio Lower Upper

43 100

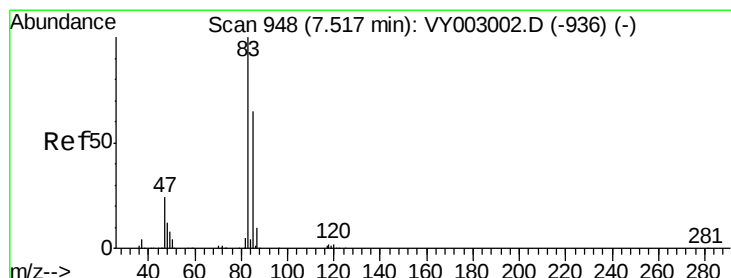
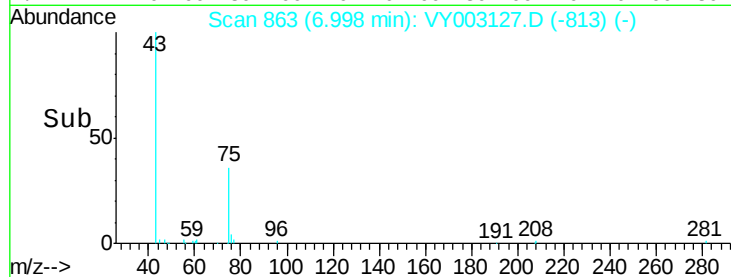
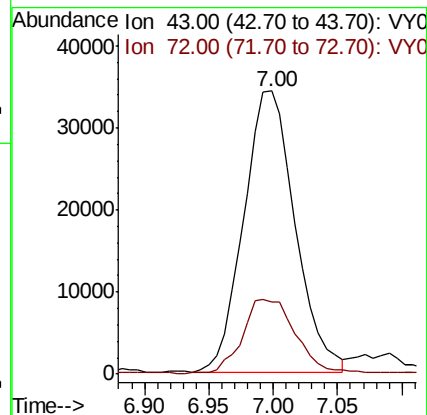
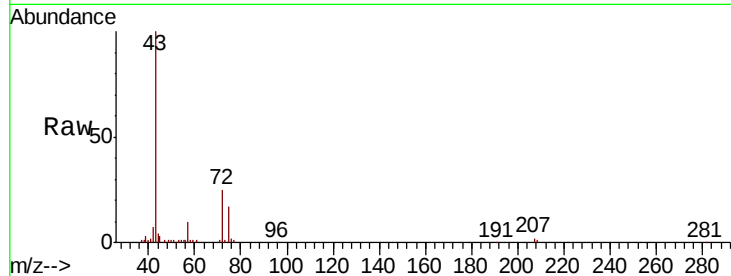
72 25.1 21.4 32.0

Manual Integrations

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#30

Chloroform

Concen: 11.454 ug/l

RT: 7.52 min Scan# 948

Delta R.T. 0.00 min

Lab File: VY003127.D

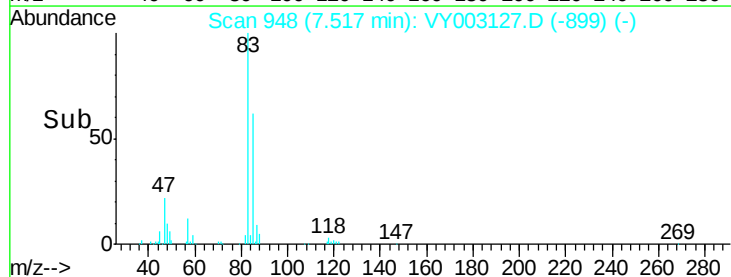
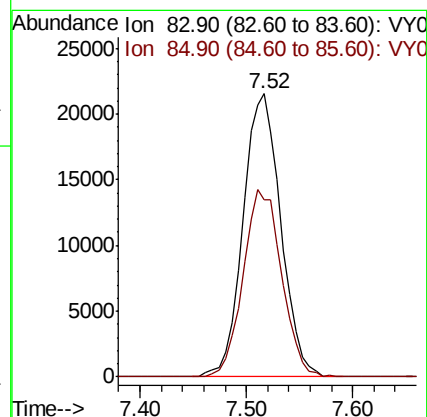
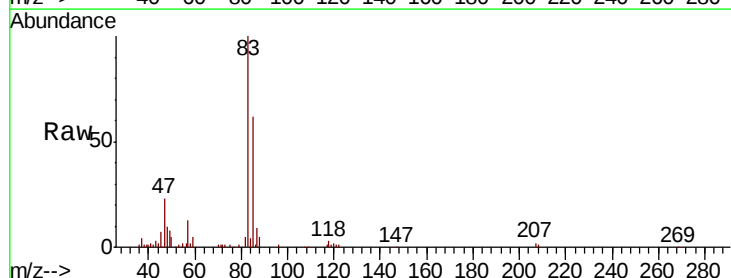
Acq: 07 Jul 2020 15:26

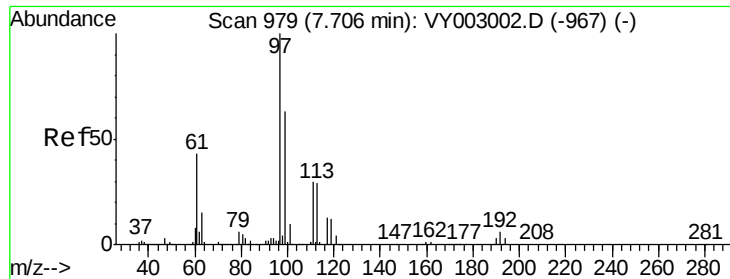
Tgt Ion: 83 Resp: 53462

Ion Ratio Lower Upper

83 100

85 62.4 51.7 77.5





#32

1,1,1-Trichloroethane

Concen: 48.197 ug/l

RT: 7.71 min Scan# 979

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA_Y

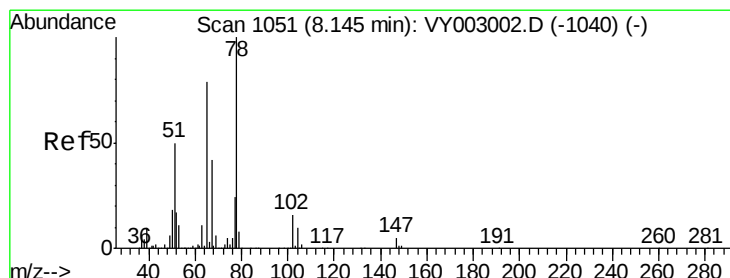
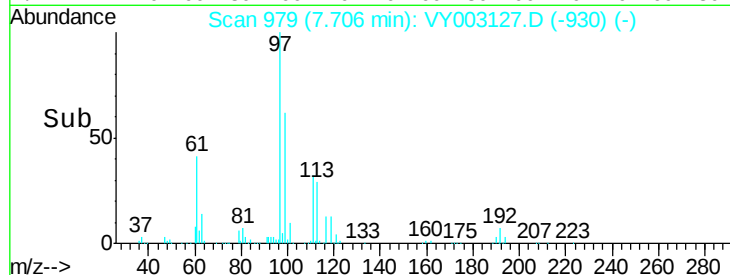
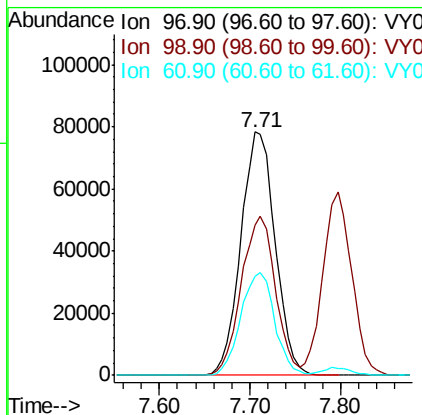
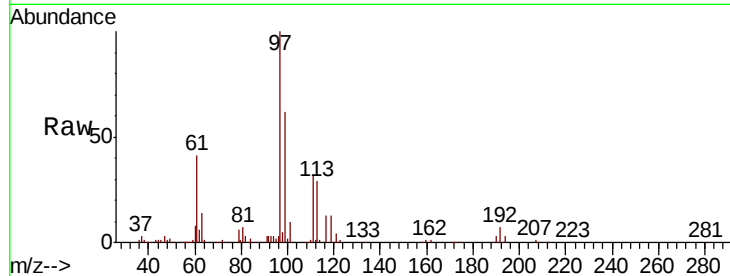
ClientSampleId :

E3-41-NHS

Tot Ion:	97	Resp:	205349
Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.4	77.2
61	41.7	33.9	50.9

Manual Integrations
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#33

1,2-Dichloroethane-d4

Concen: 53.367 ug/l

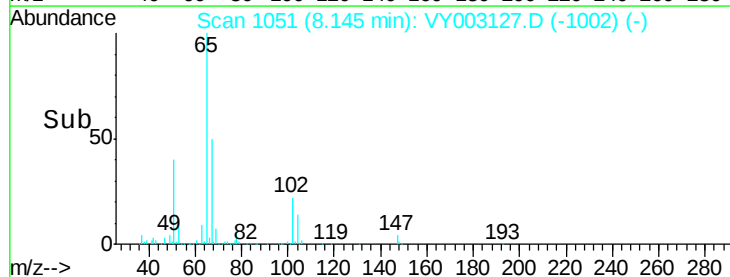
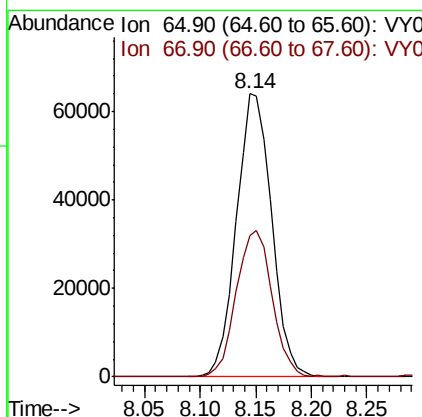
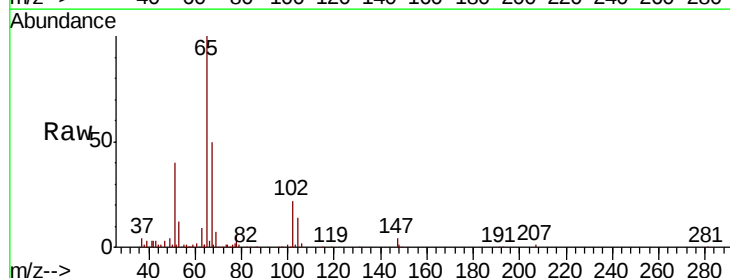
RT: 8.14 min Scan# 1051

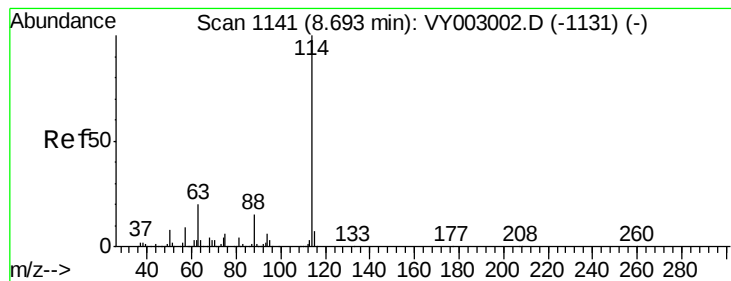
Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Tgt Ion:	65	Resp:	140841
Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA_Y

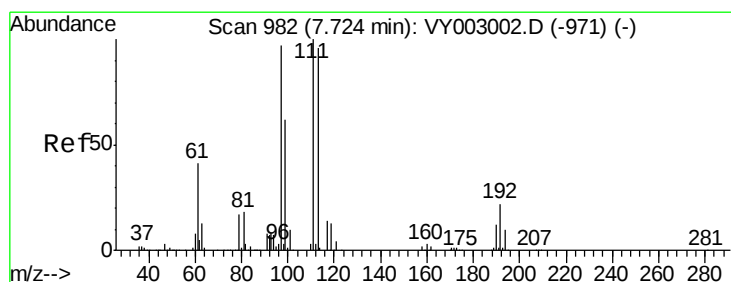
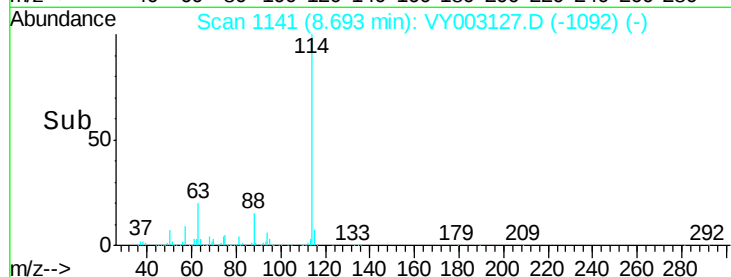
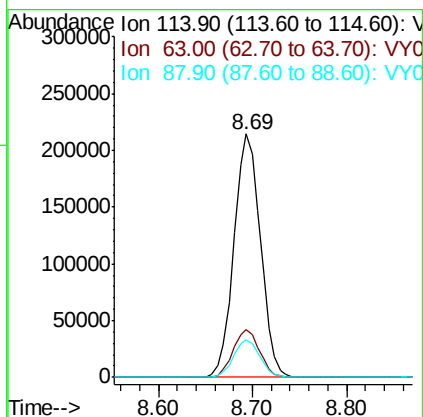
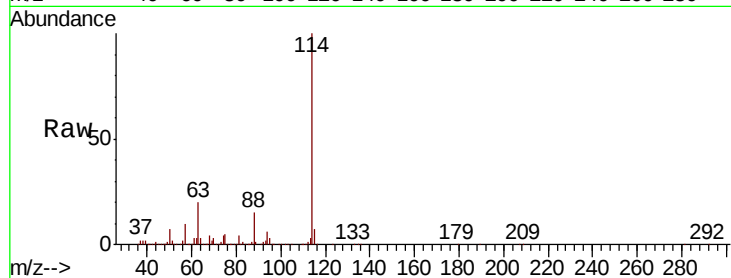
ClientSampleId :

E3-41-NHS

Tot Ion:	114	Resp:	418746
Ion Ratio	Lower	Upper	
114	100		
63	19.8	0.0	40.6
88	15.4	0.0	30.0

Manual Integrations
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#35

Dibromofluoromethane

Concen: 51.611 ug/l

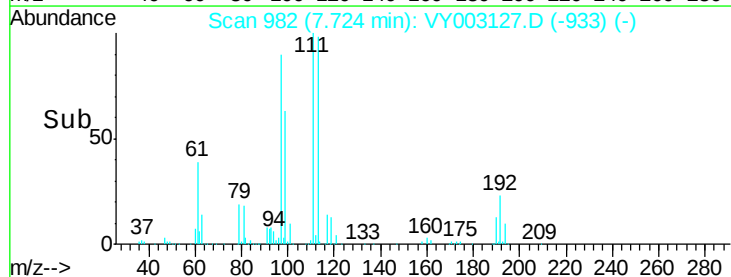
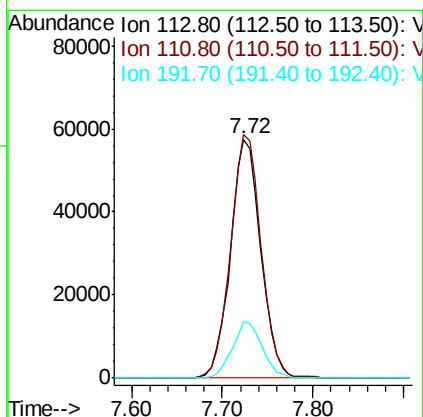
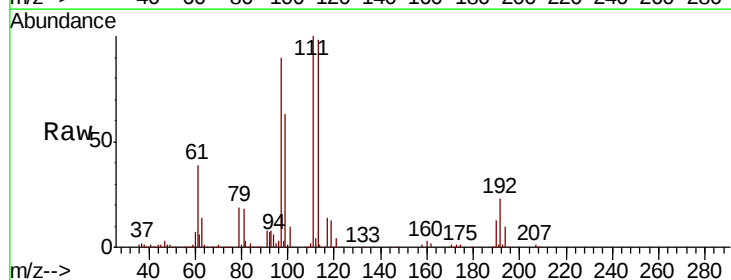
RT: 7.72 min Scan# 982

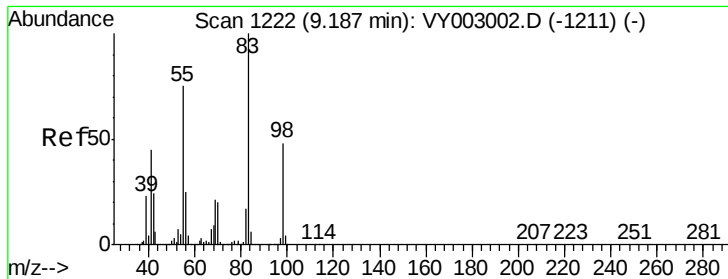
Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Tgt Ion:	113	Resp:	134819
Ion Ratio	Lower	Upper	
113	100		
111	102.3	82.6	123.8
192	23.2	18.1	27.1





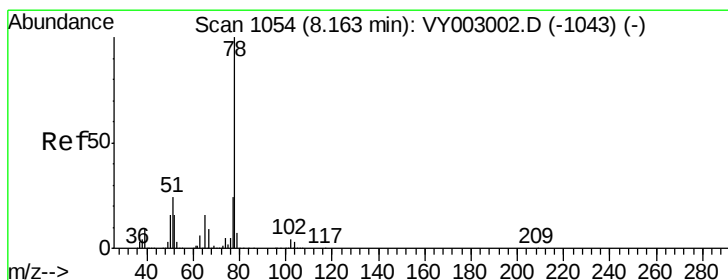
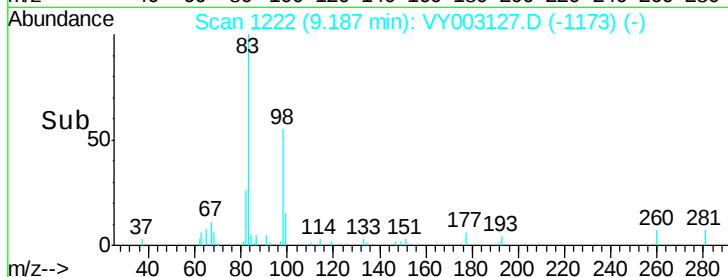
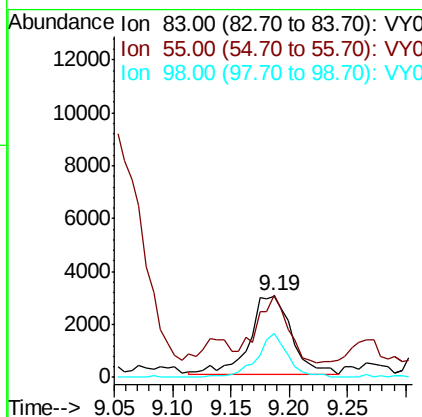
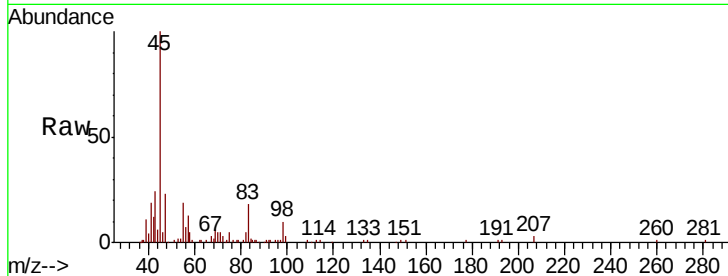
#39
Methvlcvclohexane
Concen: 1.464 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. 0.00 min
Lab File: VY003127.D
Acq: 07 Jul 2020 15:26

Instrument :
MSVOA_Y
ClientSampleId :
E3-41-NHS

Tot Ion	Ratio	Lower	Upper
83	100		
55	84.3	59.9	89.9
98	56.6	38.7	58.1

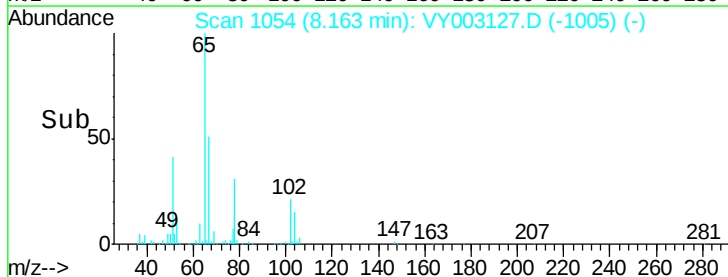
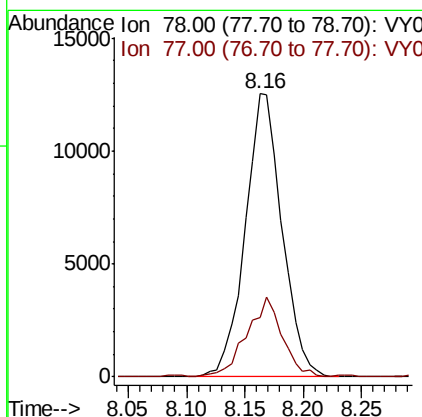
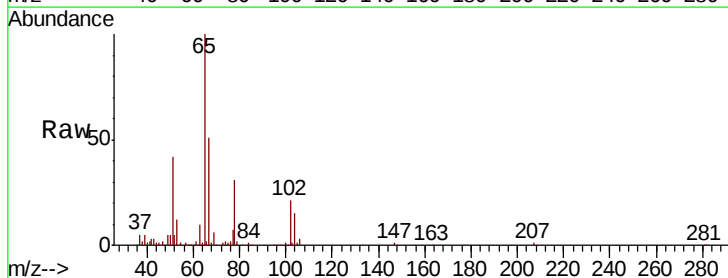
Manual Integrations
APPROVED

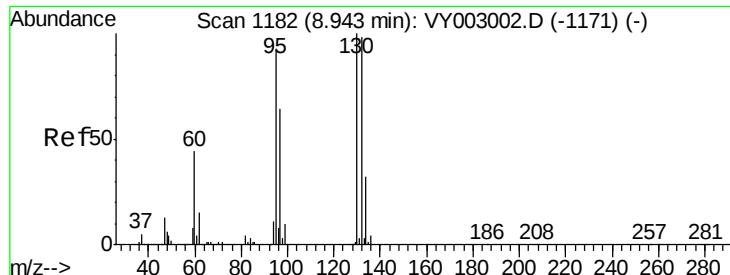
MMDadoda
7/8/2020 12:20:45 PM



#40
Benzene
Concen: 2.495 ug/l
RT: 8.16 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VY003127.D
Acq: 07 Jul 2020 15:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.9	19.2	28.8





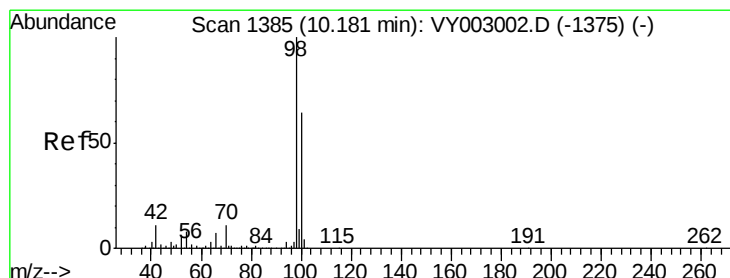
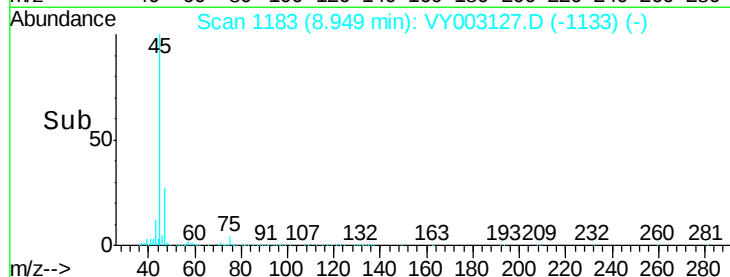
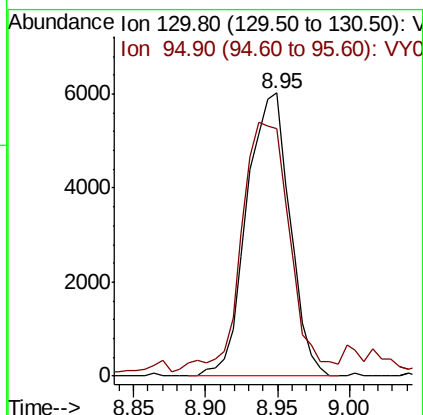
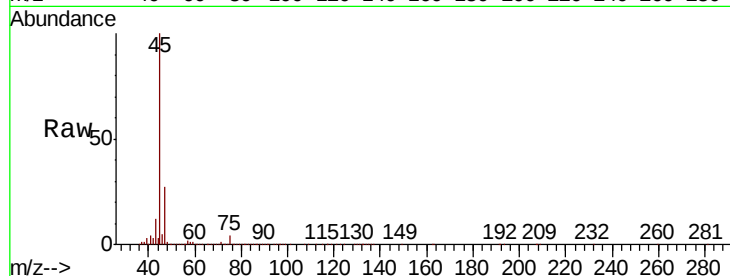
#44
 Trichloroethene
 Concen: 3.886 ug/l
 RT: 8.95 min Scan# 1183
 Delta R.T. 0.01 min
 Lab File: VY003127.D
 Acq: 07 Jul 2020 15:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 E3-41-NHS

Tot Ion:130 Resp: 12471
 Ion Ratio Lower Upper
 130 100
 95 83.3 0.0 186.4

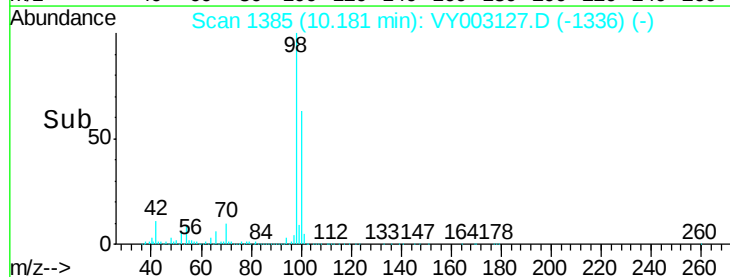
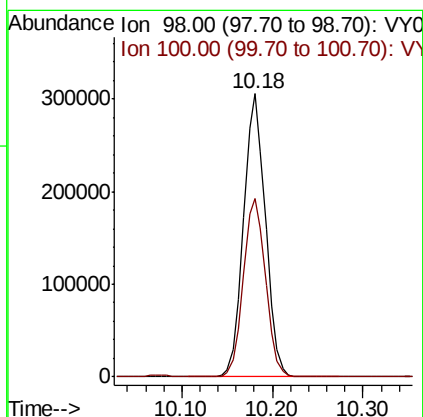
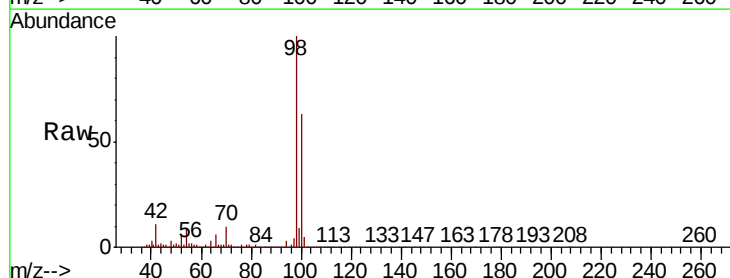
Manual Integrations
 APPROVED

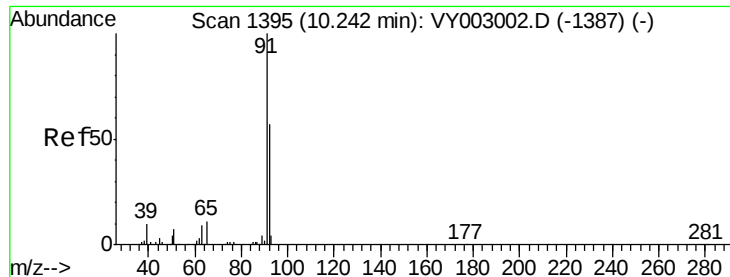
MMDadoda
 7/8/2020 12:20:45 PM



#50
 Toluene-d8
 Concen: 52.189 ug/l
 RT: 10.18 min Scan# 1385
 Delta R.T. 0.00 min
 Lab File: VY003127.D
 Acq: 07 Jul 2020 15:26

Tgt Ion: 98 Resp: 507885
 Ion Ratio Lower Upper
 98 100
 100 64.1 51.1 76.7





#52

Toluene

Concen: 78.706 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. 0.01 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA_Y

ClientSampleId :

E3-41-NHS

Tot Ion: 92 Resp: 547120

Ion Ratio Lower Upper

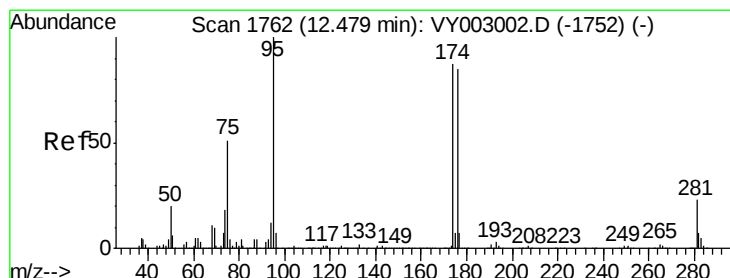
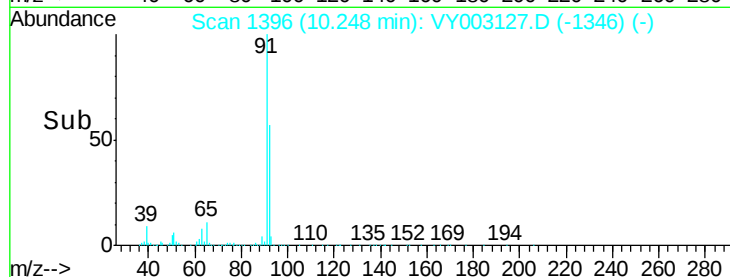
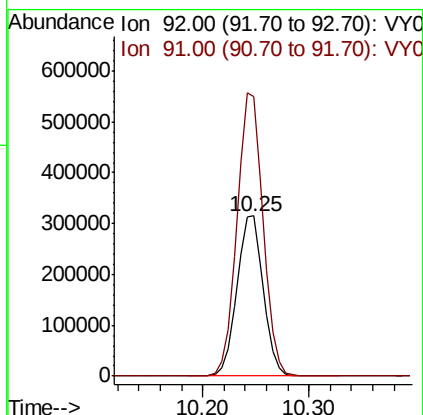
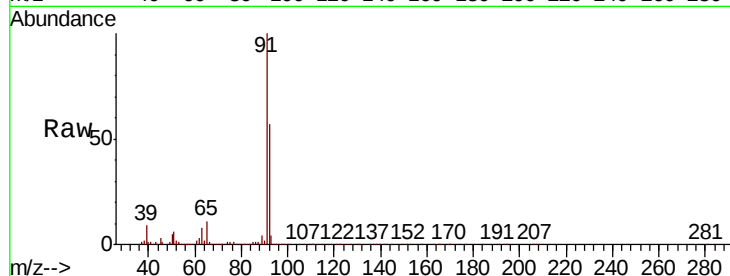
92 100

91 174.9 139.6 209.4

Manual Integrations
APPROVED

MMDadoda

7/8/2020 12:20:45 PM



#62

4-Bromofluorobenzene

Concen: 50.312 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

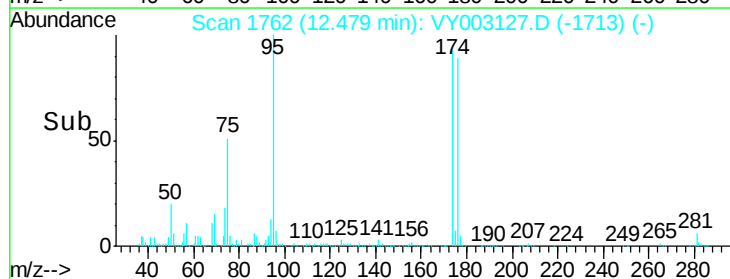
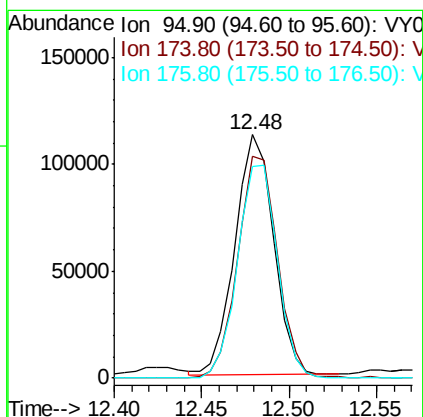
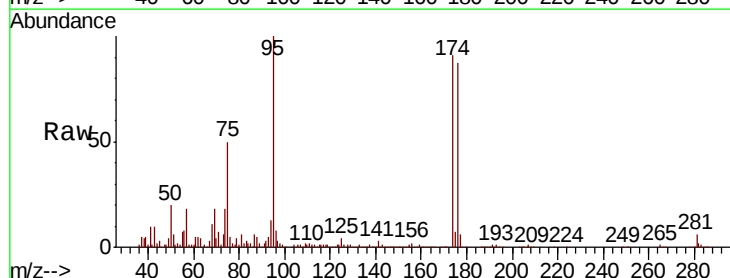
Tgt Ion: 95 Resp: 172345

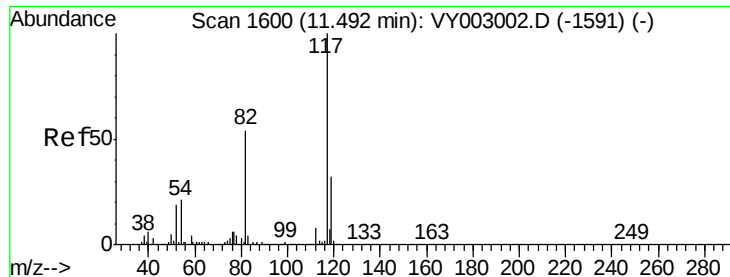
Ion Ratio Lower Upper

95 100

174 94.9 0.0 184.8

176 91.8 0.0 183.0





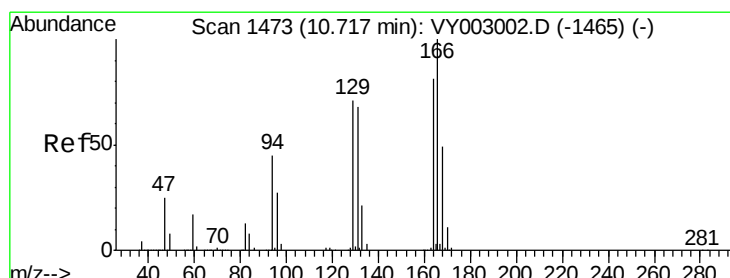
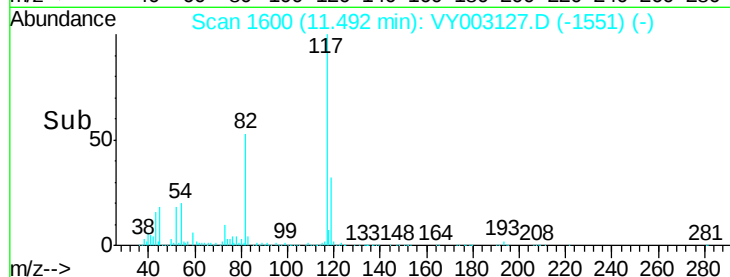
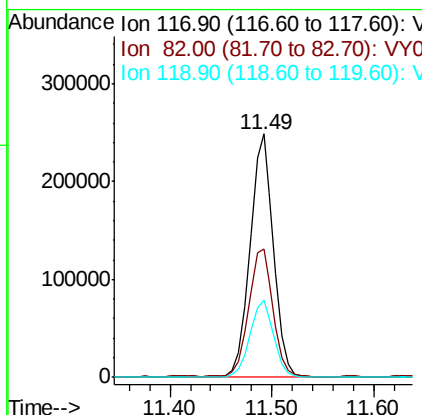
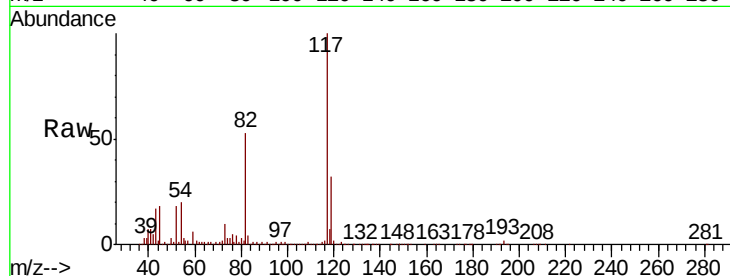
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VY003127.D
Acq: 07 Jul 2020 15:26

Instrument :
MSVOA_Y
ClientSampleId :
E3-41-NHS

Tot Ion	Ratio	Resp	Lower	Upper
117	100	395623		
82	52.5	43.0	64.6	
119	31.5	25.8	38.8	

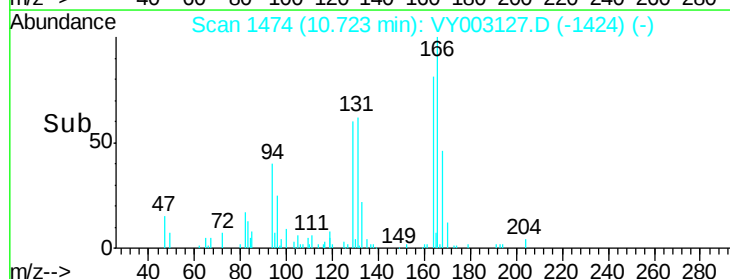
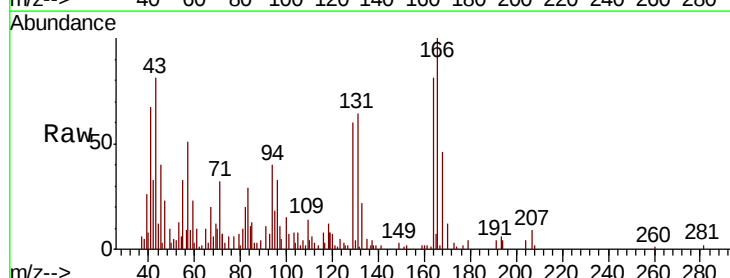
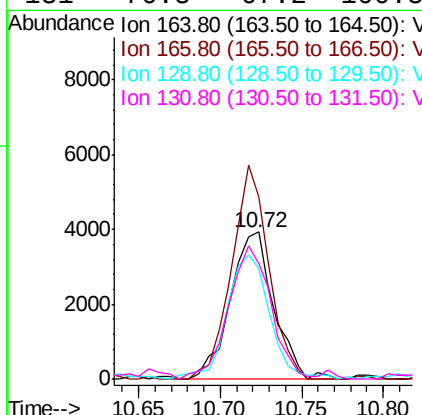
Manual Integrations
APPROVED

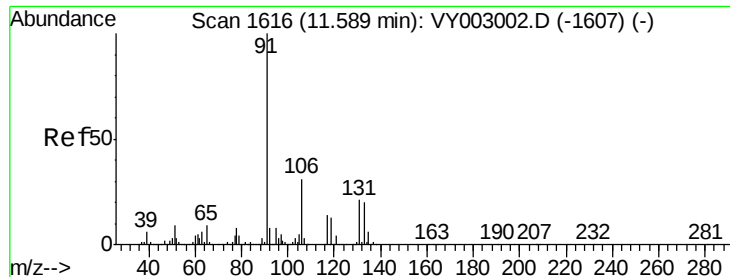
MMDadoda
7/8/2020 12:20:45 PM



#64
Tetrachloroethene
Concen: 2.164 ug/l
RT: 10.72 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VY003127.D
Acq: 07 Jul 2020 15:26

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	7246		
166	123.2	98.5	147.7	
129	74.4	69.7	104.5	
131	76.8	67.2	100.8	





#67

Ethyl Benzene

Concen: 3.370 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA_Y

ClientSampleId :

E3-41-NHS

Tot Ion: 91 Resp: 48097

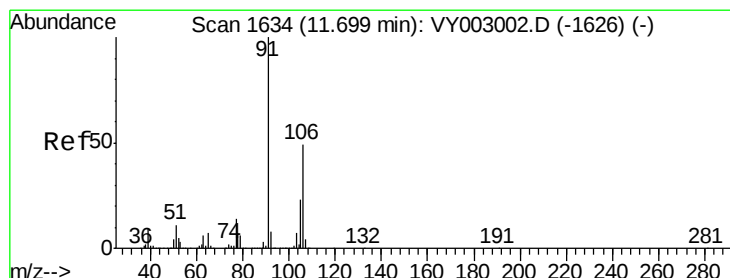
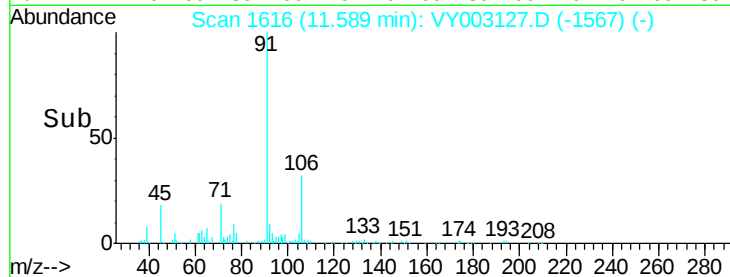
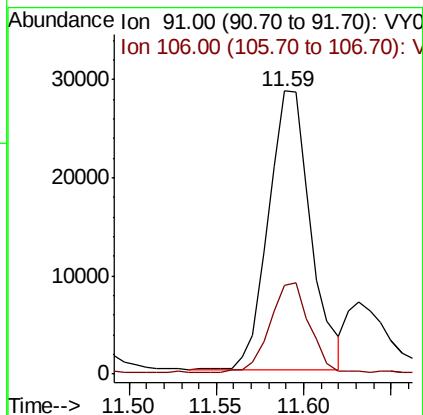
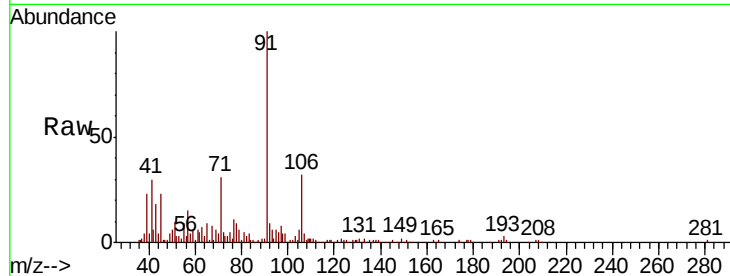
Ion Ratio Lower Upper

91 100

106 31.4 25.0 37.4

Manual Integrations
APPROVED

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7/8/2020 12:20:45 PM



#68

m/p-Xylenes

Concen: 8.554 ug/l

RT: 11.69 min Scan# 1633

Delta R.T. -0.01 min

Lab File: VY003127.D

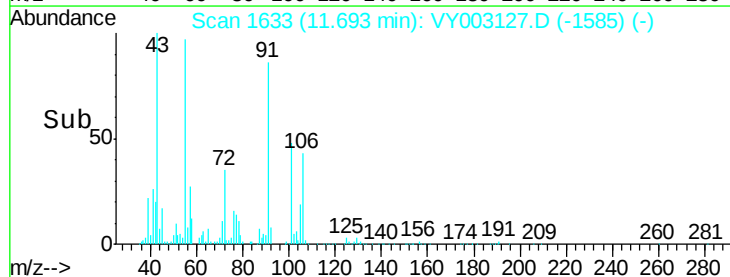
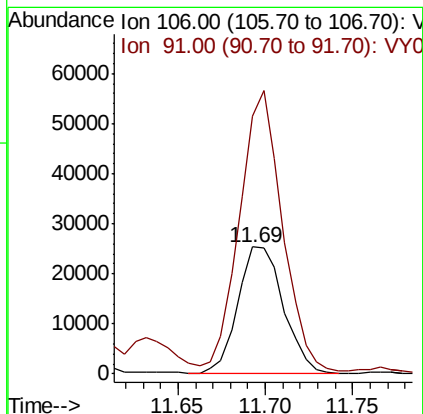
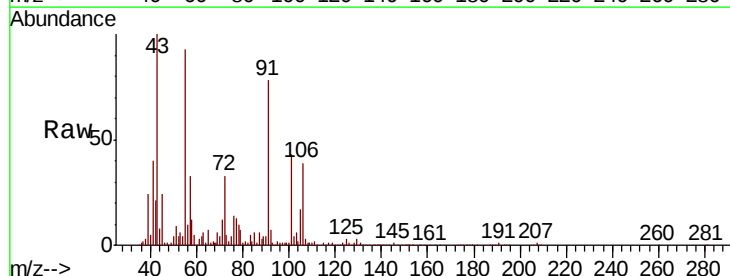
Acq: 07 Jul 2020 15:26

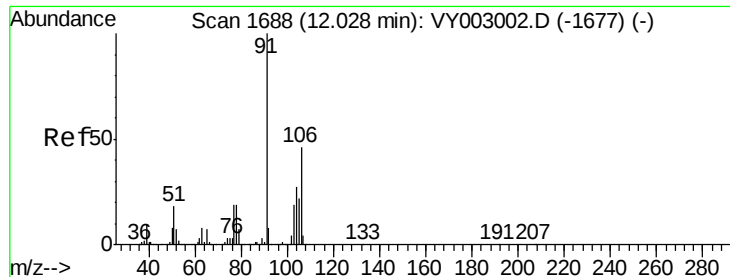
Tgt Ion: 106 Resp: 45433

Ion Ratio Lower Upper

106 100

91 208.1 161.9 242.9





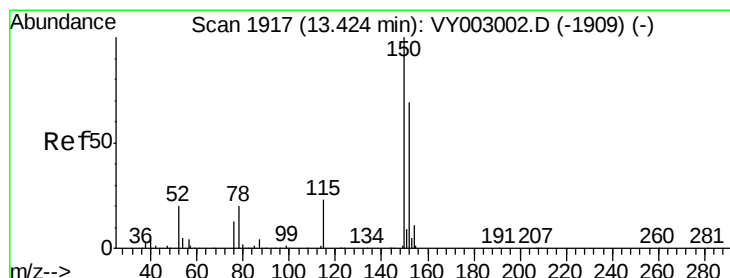
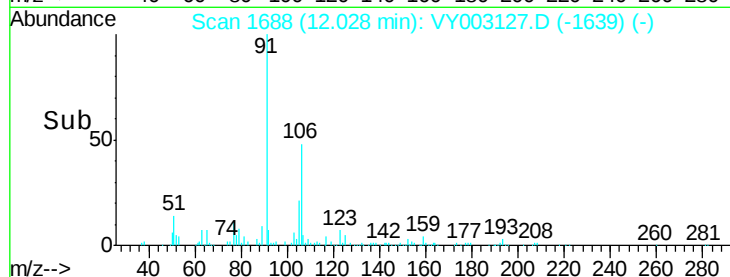
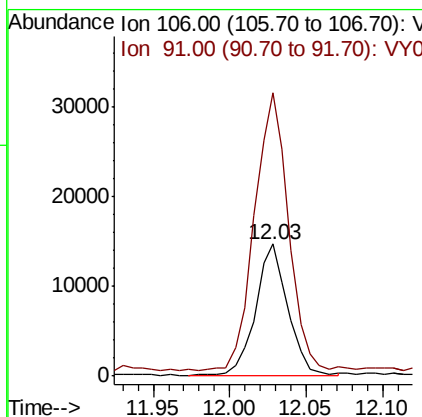
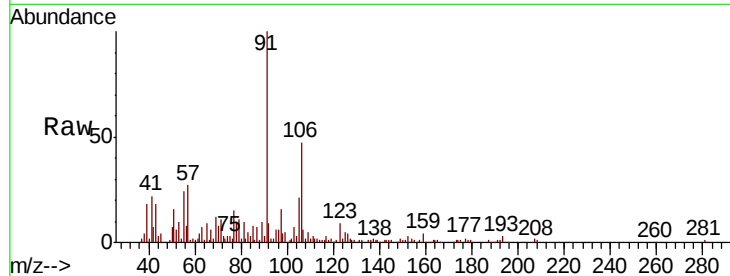
#69
o-Xylene
Concen: 4.312 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VY003127.D
Acq: 07 Jul 2020 15:26

Instrument :
MSVOA_Y
ClientSampleId :
E3-41-NHS

Tot Ion	Ratio	Lower	Upper
106	100		
91	222.1	107.9	323.8

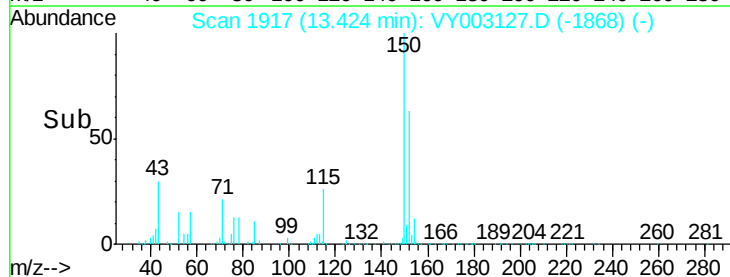
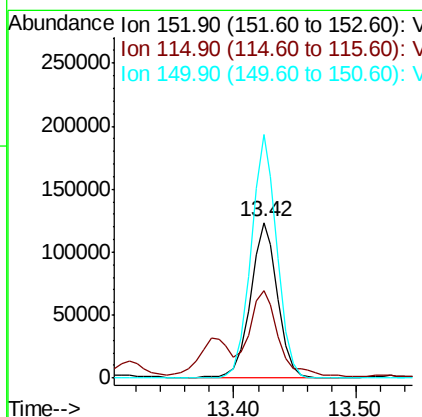
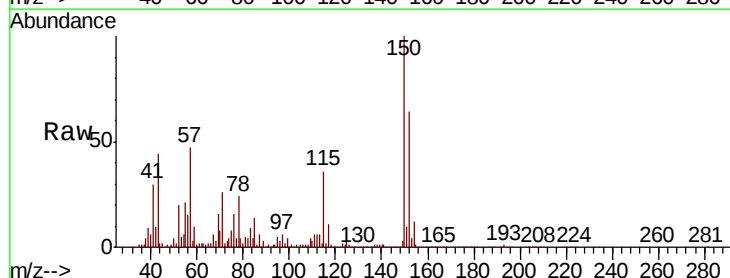
Manual Integrations
APPROVED

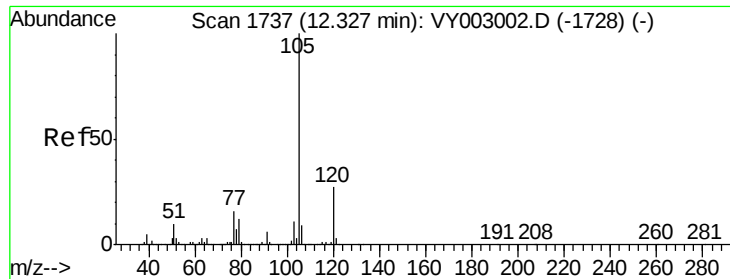
MMDadoda
7/8/2020 12:20:45 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VY003127.D
Acq: 07 Jul 2020 15:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.3	27.3	81.9
150	150.8	0.0	343.4





#73

Isopropylbenzene

Concen: 5.039 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA_Y

ClientSampleId :

E3-41-NHS

Tot Ion: 105 Resp: 61808

Ion Ratio Lower Upper

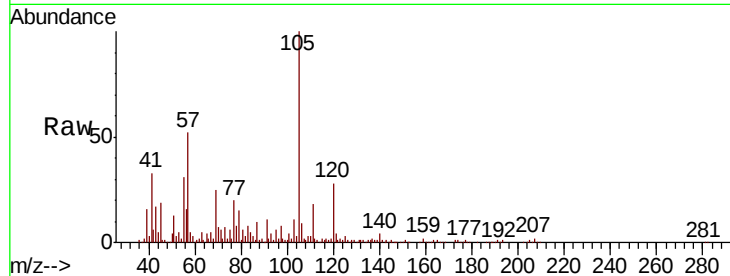
105 100

120 27.8 13.4 40.1

Manual Integrations
APPROVED

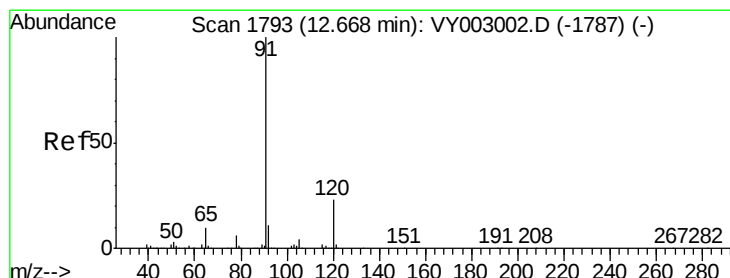
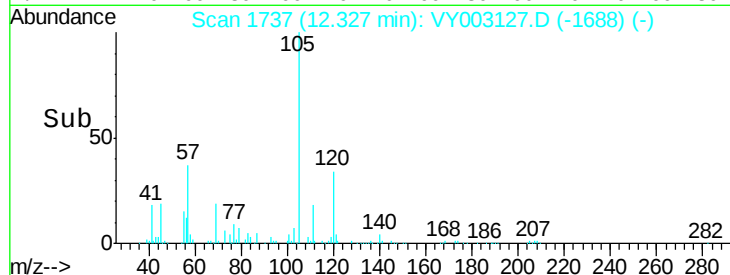
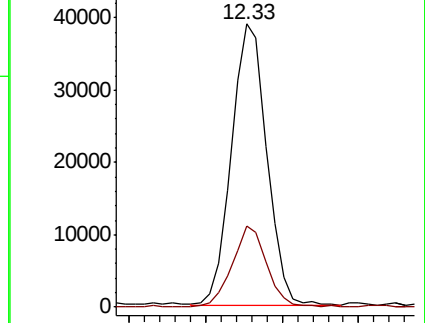
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 12.938 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VY003127.D

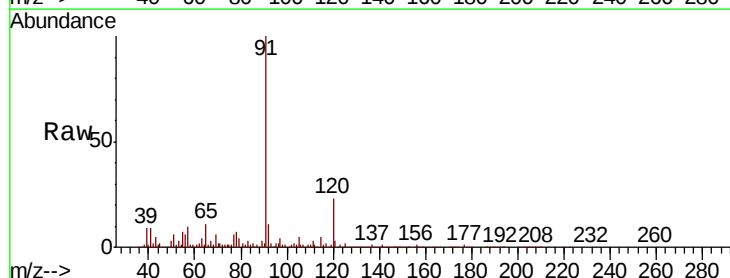
Acq: 07 Jul 2020 15:26

Tgt Ion: 91 Resp: 190856

Ion Ratio Lower Upper

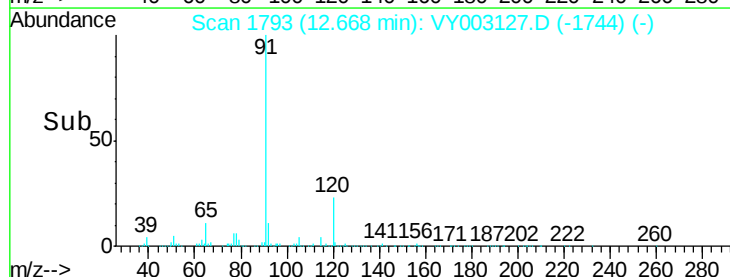
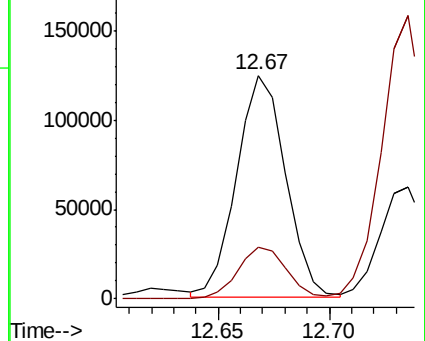
91 100

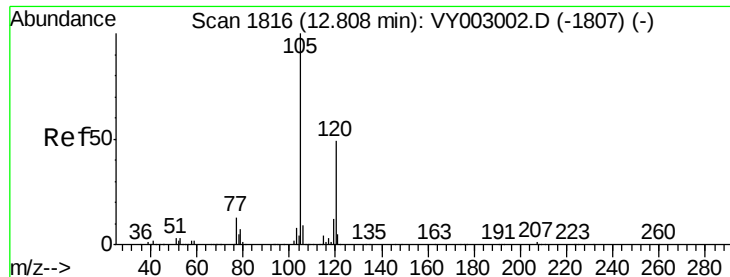
120 23.0 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





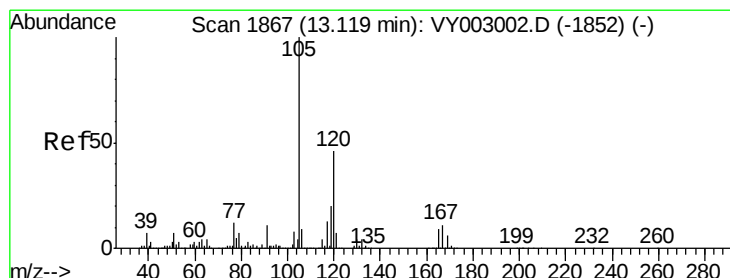
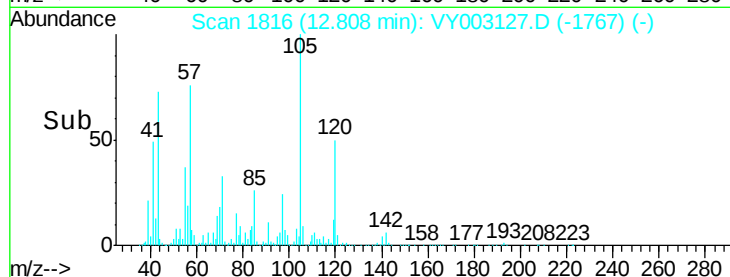
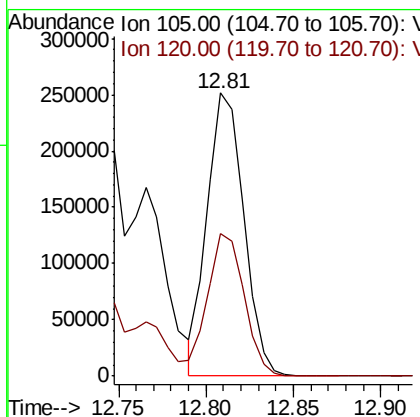
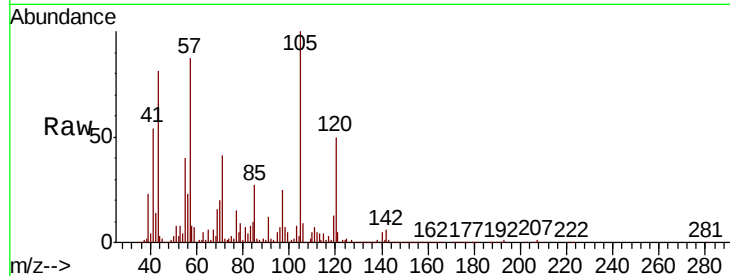
#80
 1,3,5-Trimethylbenzene
 Concen: 35.537 ug/l
 RT: 12.81 min Scan# 1816
 Delta R.T. 0.00 min
 Lab File: VY003127.D
 Acq: 07 Jul 2020 15:26

Instrument :
 MSVOA_Y
 ClientSampled :
 E3-41-NHS

Tot Ion	Ratio	Lower	Upper
105	100		
120	51.3	24.6	73.6

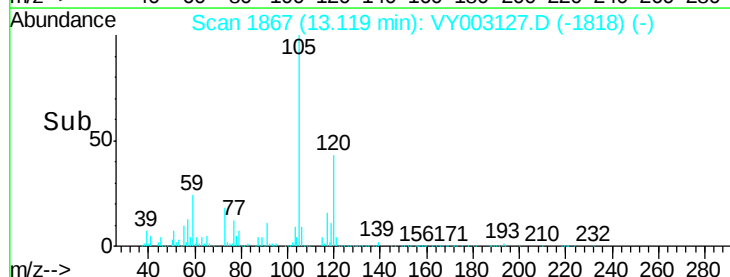
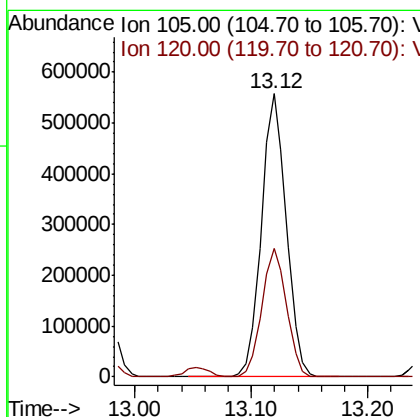
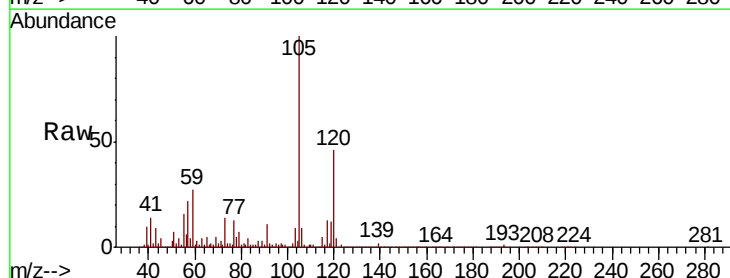
Manual Integrations
 APPROVED

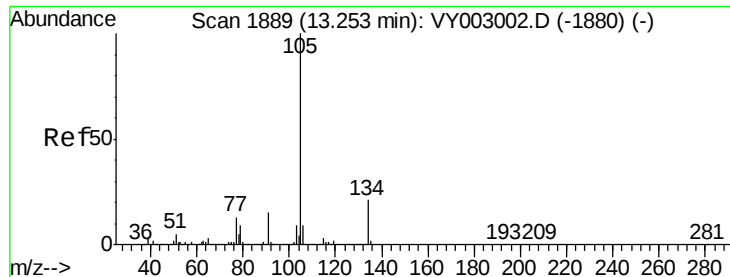
MMDadoda
 7/8/2020 12:20:45 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 78.845 ug/l
 RT: 13.12 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VY003127.D
 Acq: 07 Jul 2020 15:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.6	67.8





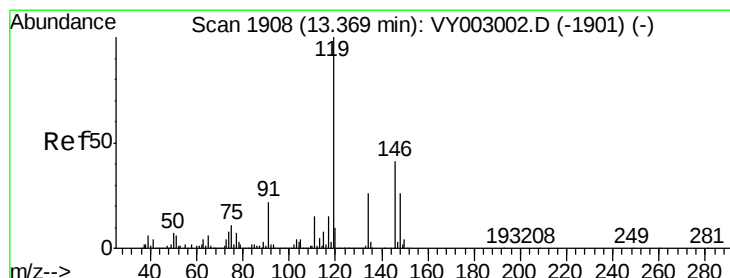
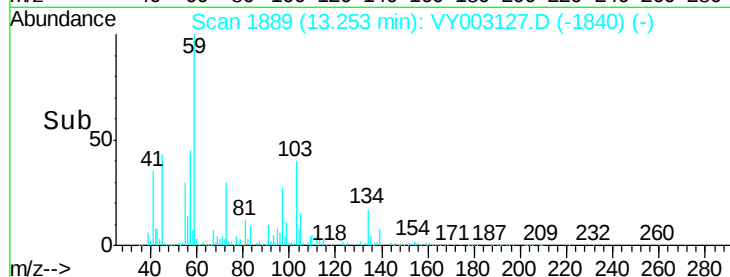
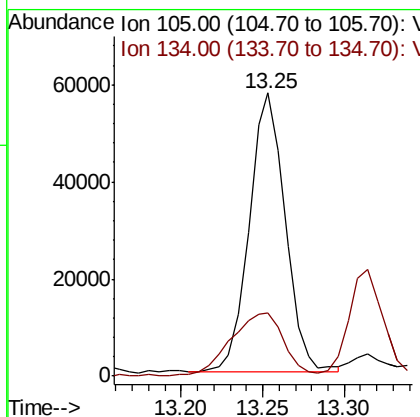
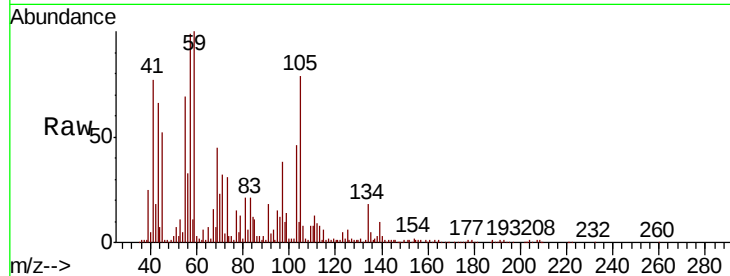
#85
 sec-Butylbenzene
 Concen: 7.056 ug/l
 RT: 13.25 min Scan# 1889
 Delta R.T. 0.00 min
 Lab File: VY003127.D
 Acq: 07 Jul 2020 15:26

Instrument :
 MSVOA_Y
 ClientSampleId :
 E3-41-NHS

Tot Ion	Ratio	Lower	Upper
105	100		
134	32.8	10.4	31.2#

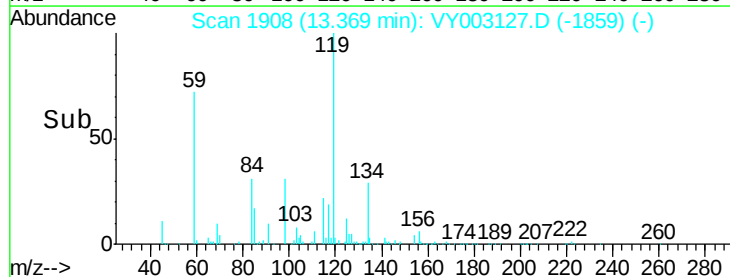
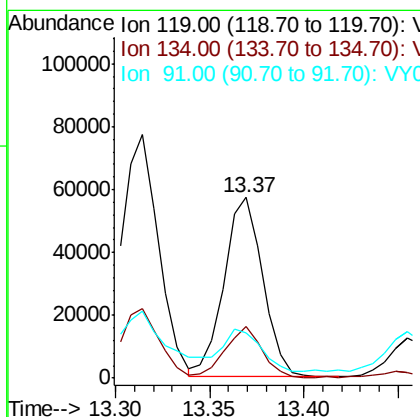
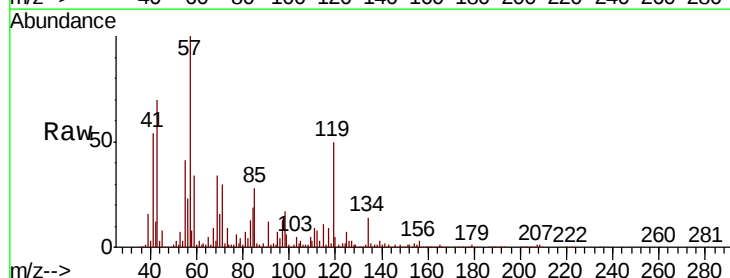
Manual Integrations
 APPROVED

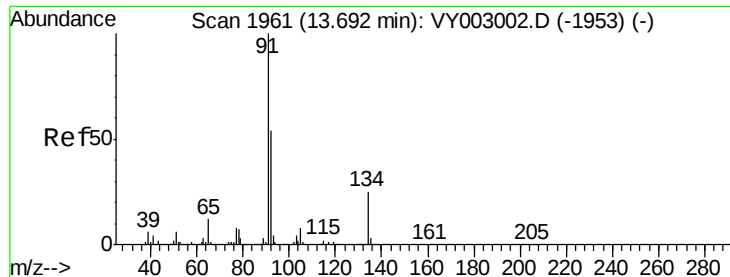
MMDadoda
 7/8/2020 12:20:45 PM



#86
 p-Isopropyltoluene
 Concen: 7.048 ug/l
 RT: 13.37 min Scan# 1908
 Delta R.T. 0.00 min
 Lab File: VY003127.D
 Acq: 07 Jul 2020 15:26

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.5	40.4
91	23.2	11.5	34.5





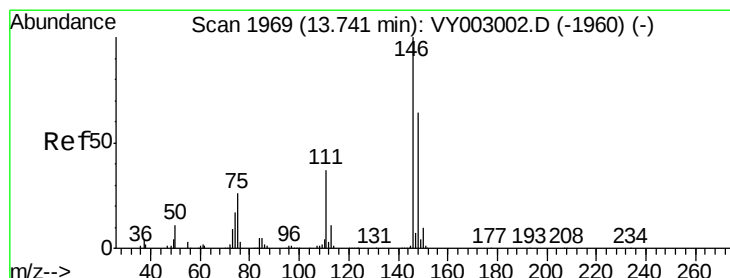
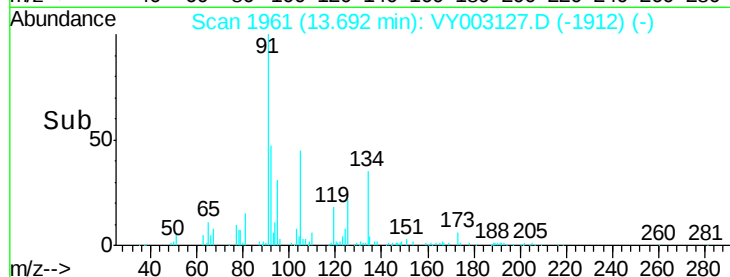
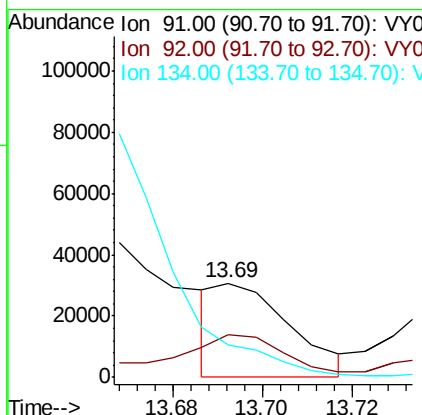
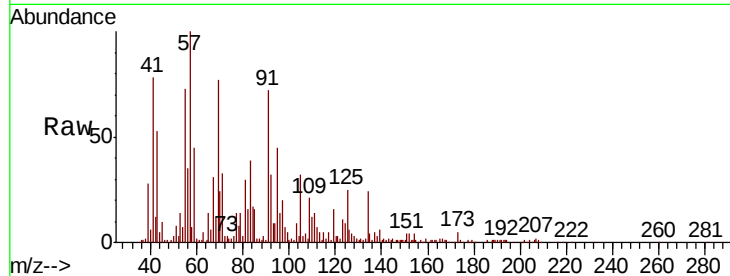
#89
n-Butylbenzene
Concen: 3.178 ug/l m
RT: 13.69 min Scan# 1961
Delta R.T. 0.00 min
Lab File: VY003127.D
Acq: 07 Jul 2020 15:26

Instrument :
MSVOA_Y
ClientSampled :
E3-41-NHS

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.8	80.3#
134	413.9	13.1	39.1#

Manual Integrations
APPROVED

MMDadoda
7/8/2020 12:20:45 PM



#91
1,2-Dichlorobenzene
Concen: 87.861 ug/l
RT: 13.74 min Scan# 1969
Delta R.T. 0.00 min
Lab File: VY003127.D
Acq: 07 Jul 2020 15:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.5	19.1	57.5
148	63.0	31.8	95.3

