

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD111618\
 Data File : VD060397.D
 Acq On : 16 Nov 2018 14:46
 Operator : JC/SY
 Sample : J5918-02
 Misc : 5.03g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FDSB-05(25-27)

Manual Integrations
 APPROVED

sam
 11/19/2018 4:54:16 PM

Quant Time: Nov 19 16:44:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 06 13:56:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.44	168	1109158	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	7.47	114	2058483	50.00	ug/l	0.01
63) Chlorobenzene-d5	11.33	117	281202	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	13.39	152	202335m	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.81	65	360344	45.37	ug/l	0.01
Spiked Amount	50.000		Recovery	=	90.74%	
35) Dibromofluoromethane	6.35	113	502614	32.74	ug/l	0.01
Spiked Amount	50.000		Recovery	=	65.48%	
50) Toluene-d8	9.50	98	2914494	64.87	ug/l	0.03
Spiked Amount	50.000		Recovery	=	129.74%	
62) 4-Bromofluorobenzene	12.44	95	2063859	126.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	253.56%	
Target Compounds						
					Qvalue	
16) Acetone	3.17	43	80309	58.297	ug/l	100
20) Methylene Chloride	3.74	84	199464	16.322	ug/l #	83
31) Cyclohexane	6.40	56	7697994	405.976	ug/l #	81
39) Methylcyclohexane	8.10	83	19513912	834.261	ug/l #	66
56) Ethyl methacrylate	9.98	69	7107135	804.247	ug/l #	56
64) Tetrachloroethene	10.30	164	9224	3.674	ug/l #	91
68) m/p-Xylenes	11.60	106	439355	114.274	ug/l	83
69) o-Xylene	11.99	106	124533	33.527	ug/l	52
73) Isopropylbenzene	12.33	105	6442085	437.001	ug/l	93
78) n-propylbenzene	12.71	91	12670485	688.604	ug/l	86
80) 1,3,5-Trimethylbenzene	12.78	105	902237	78.753	ug/l	77
83) tert-Butylbenzene	13.09	119	596249	46.878	ug/l	83
84) 1,2,4-Trimethylbenzene	13.15	105	15357983	1342.296	ug/l	88
85) sec-Butylbenzene	13.27	105	5553583	355.886	ug/l	82
86) p-Isopropyltoluene	13.34	119	707344	56.287	ug/l	88
89) n-Butylbenzene	13.67	91	4811726	375.310	ug/l	97

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

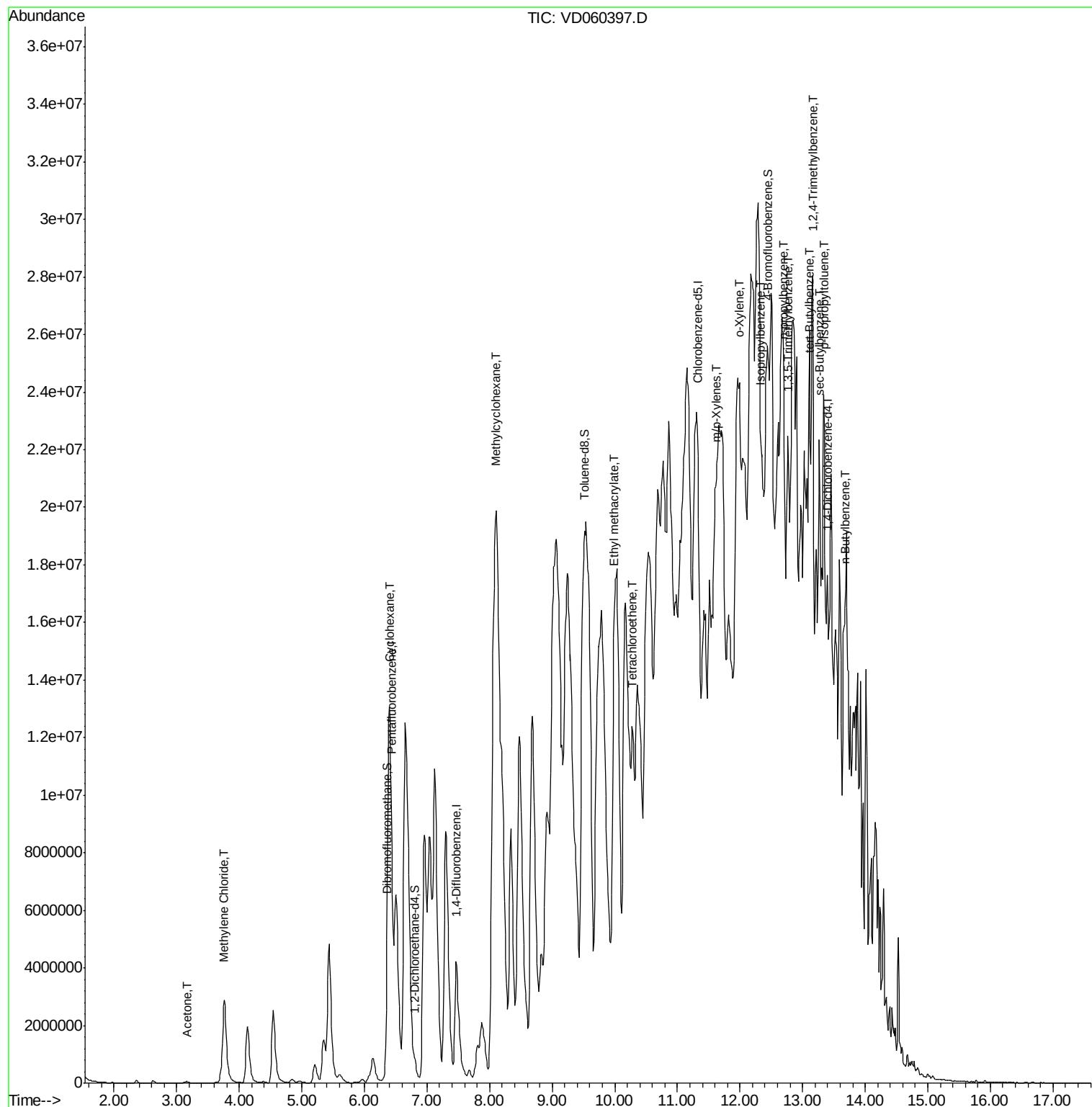
Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD111618\
Data File : VD060397.D
Acq On : 16 Nov 2018 14:46
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Misc : 5.03g/5ml/MSVOA D/SOIL
ALS Vial : 9 Sample Multiplier: 1

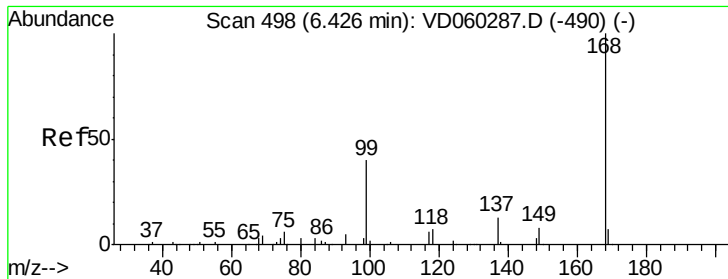
Instrument :
MSVOA_D
ClientSampleId :
FDSB-05(25-27)

Manual Integrations
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Quant Time: Nov 19 16:44:14 2018
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QLast Update : Tue Nov 06 13:56:04 2018
Response via : Initial Calibration





#1

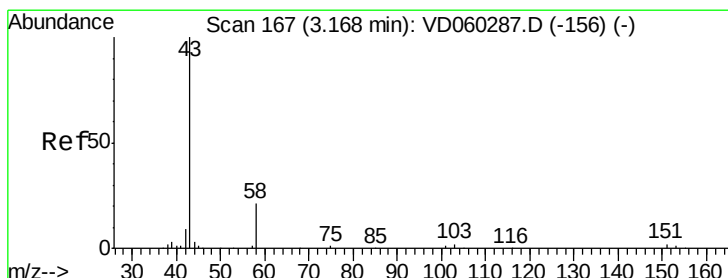
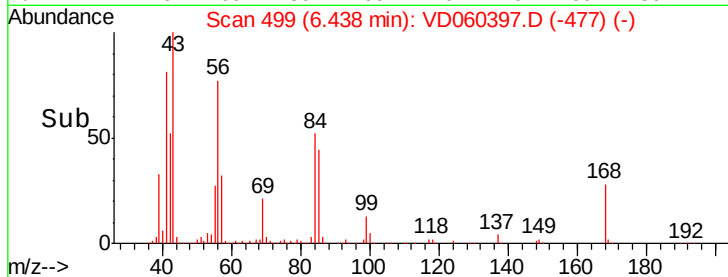
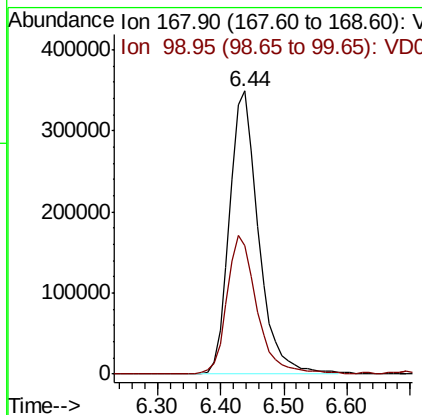
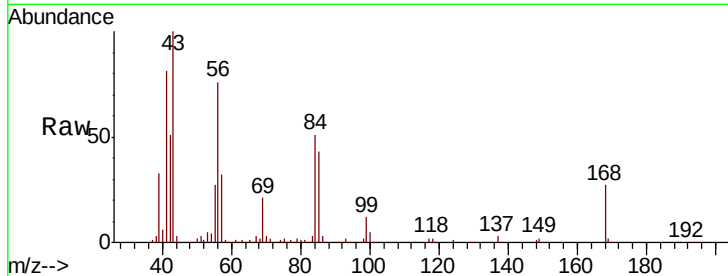
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 6.44 min Scan# 499
 Delta R.T. 0.01 min
 Lab File: VD060397.D
 Acq: 16 Nov 2018 14:46

Instrument :
 MSVOA_D
 ClientSampleId :
 FDSB-05(25-27)

Tot Ion:168 Resp: 1109158
 Ion Ratio Lower Upper
 168 100
 99 45.5 39.8 59.8

Manual Integrations
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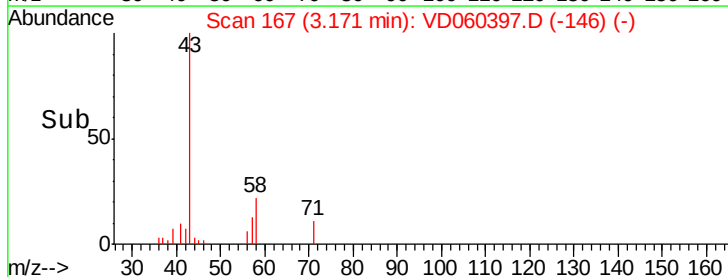
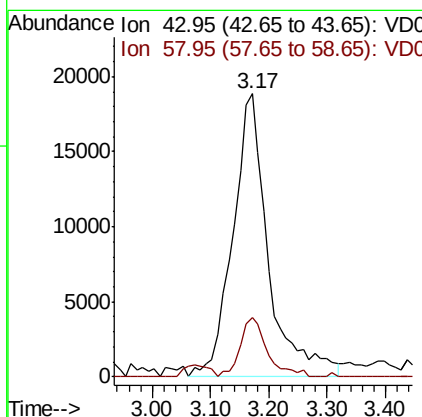
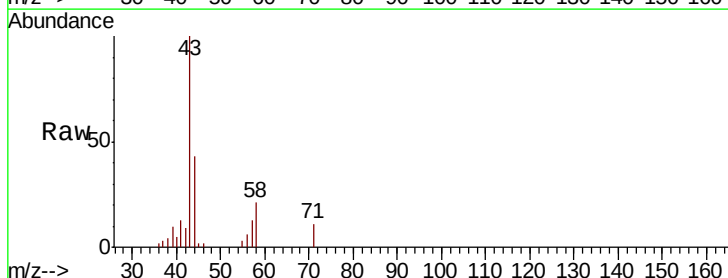
sam
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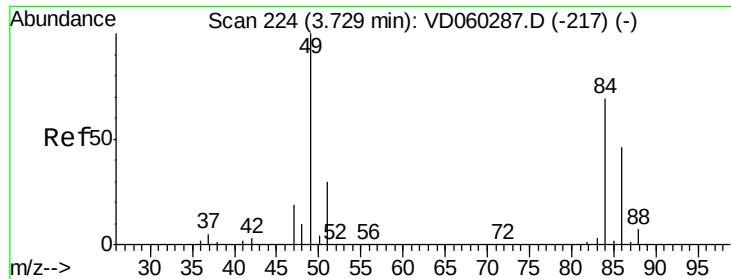


#16

Acetone
 Concen: 58.297 ug/l
 RT: 3.17 min Scan# 167
 Delta R.T. 0.00 min
 Lab File: VD060397.D
 Acq: 16 Nov 2018 14:46

Tgt Ion: 43 Resp: 80309
 Ion Ratio Lower Upper
 43 100
 58 21.1 16.9 25.3





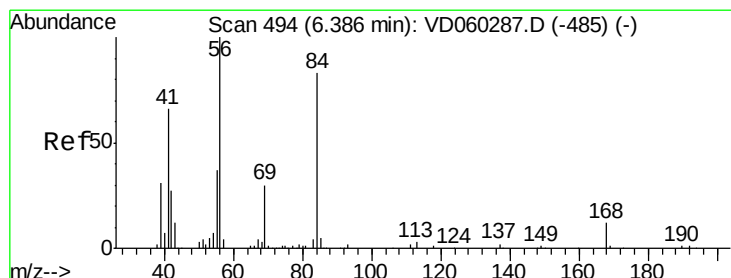
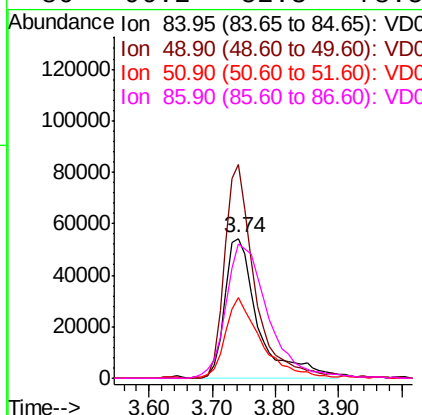
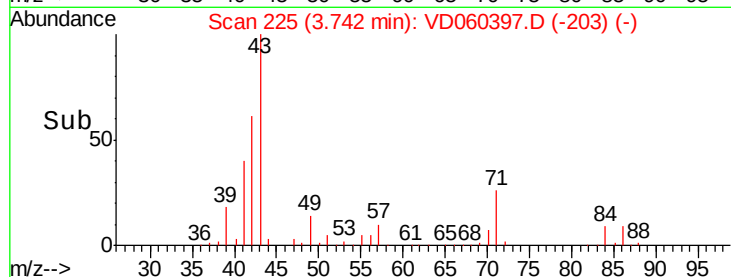
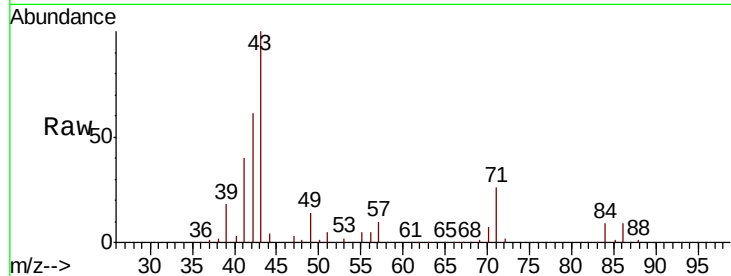
#20
Methylene Chloride
Concen: 16.322 ug/l
RT: 3.74 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD060397.D
Acq: 16 Nov 2018 14:46

Instrument :
MSVOA_D
ClientSampleId :
FDSB-05(25-27)

Tot Ion	Ratio	Lower	Upper
84	100		
49	152.6	115.6	173.4
51	57.4	35.6	53.4#
86	96.2	52.3	78.5#

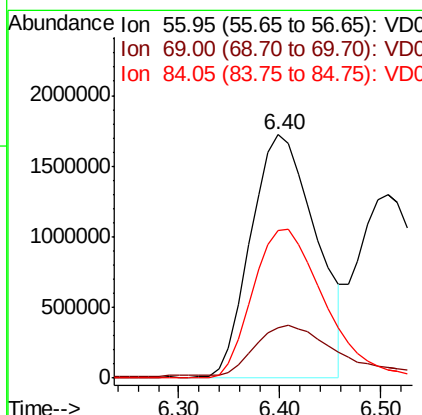
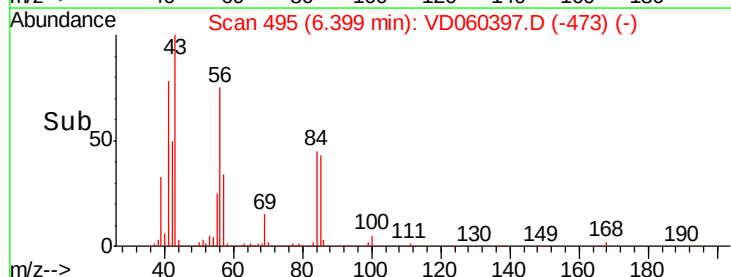
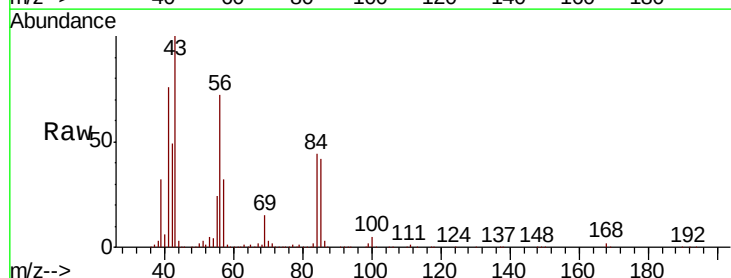
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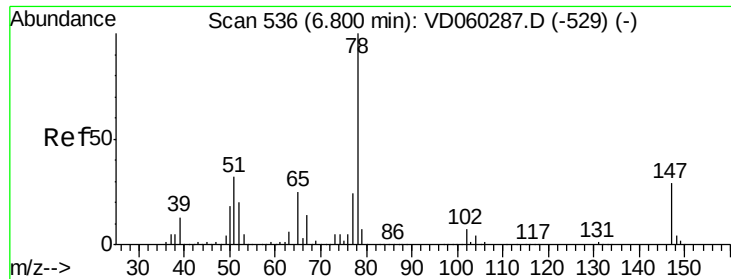
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#31
Cyclohexane
Concen: 405.976 ug/l
RT: 6.40 min Scan# 495
Delta R.T. 0.01 min
Lab File: VD060397.D
Acq: 16 Nov 2018 14:46

Tgt Ion	Ratio	Lower	Upper
56	100		
69	20.8	22.2	33.2#
84	60.5	63.0	94.4#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.81 min Scan# 537

Delta R.T. 0.01 min

Lab File: VD060397.D

Acq: 16 Nov 2018 14:46

Instrument :

MSVOA_D

ClientSampleId :

FDSB-05(25-27)

Tot Ion: 65 Resp: 360344

Ion Ratio Lower Upper

65 100

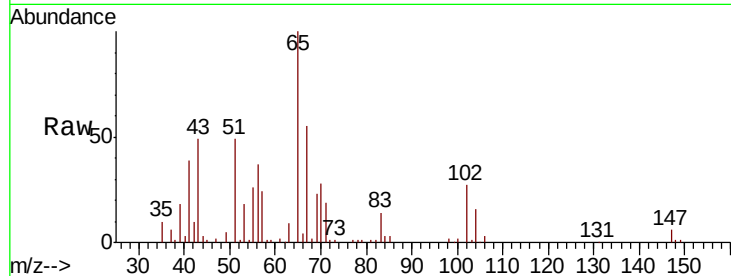
67 54.7 0.0 109.8

Manual Integrations

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sam

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Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

150000

100000

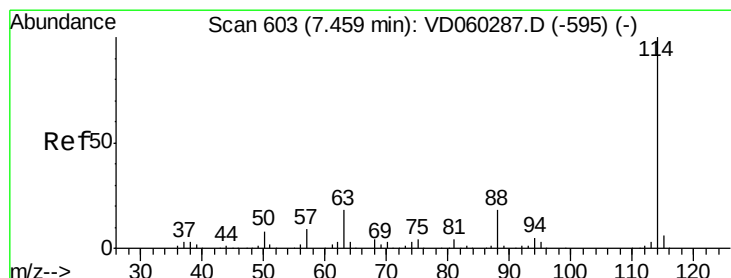
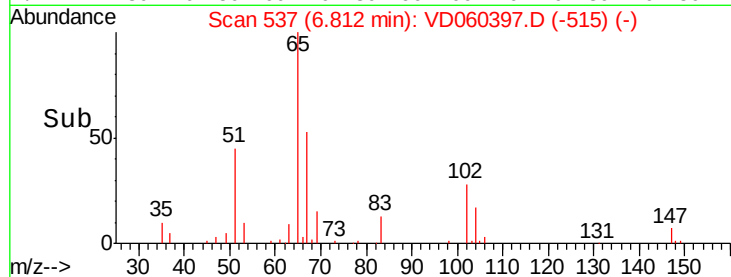
50000

0

6.70 6.80 6.90

6.81

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.47 min Scan# 604

Delta R.T. 0.01 min

Lab File: VD060397.D

Acq: 16 Nov 2018 14:46

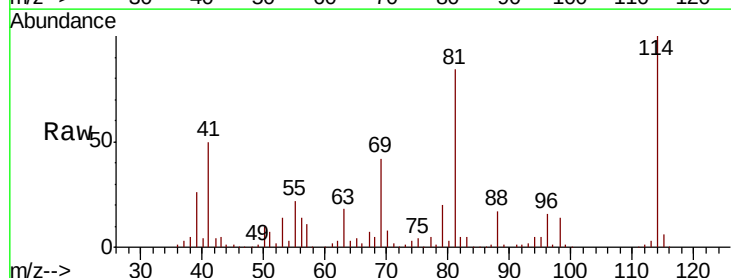
Tgt Ion: 114 Resp: 2058483

Ion Ratio Lower Upper

114 100

63 17.9 0.0 34.0

88 17.3 0.0 35.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

800000

600000

400000

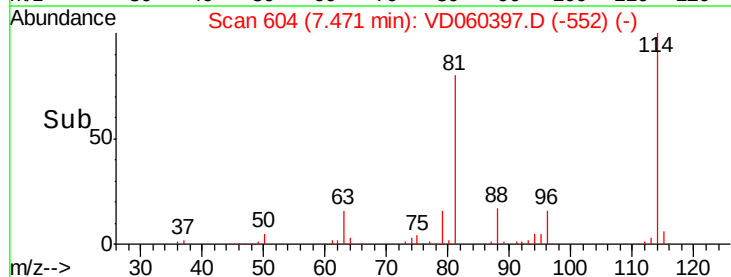
200000

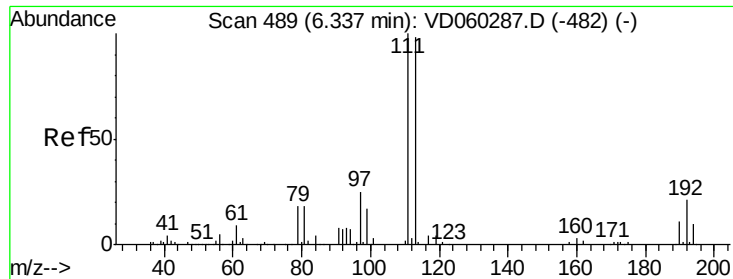
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7.20 7.40 7.60 7.80

7.47

Time-->





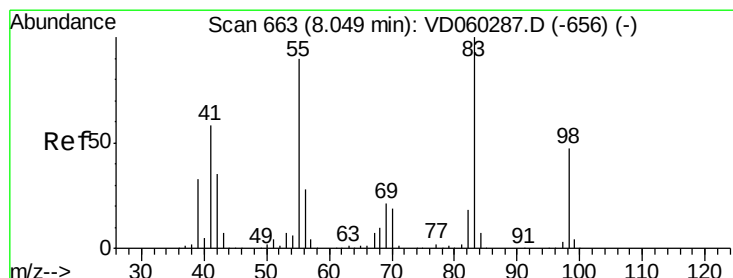
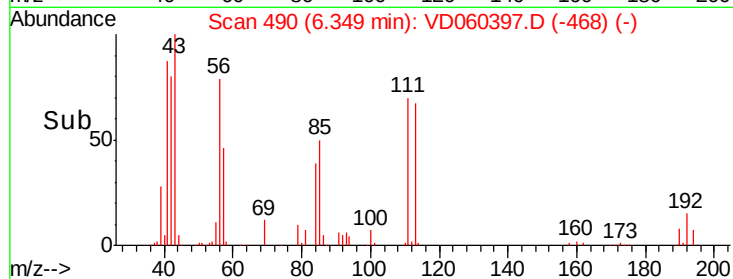
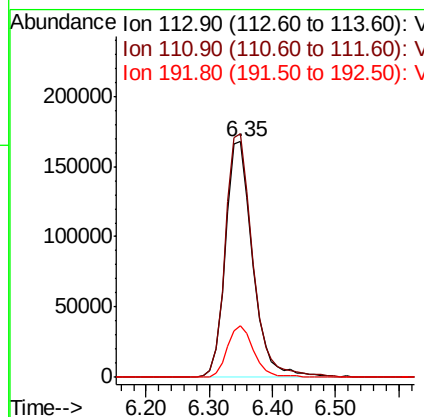
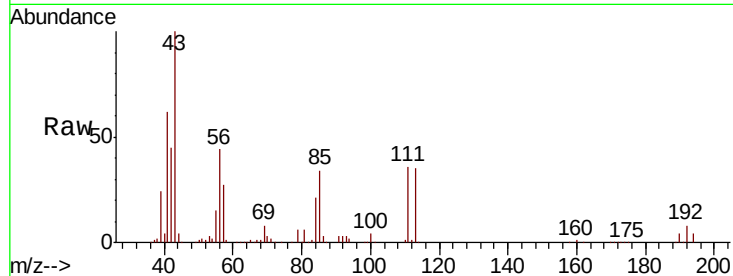
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.35 min Scan# 490
Delta R.T. 0.01 min
Lab File: VD060397.D
Acq: 16 Nov 2018 14:46

Instrument :
MSVOA_D
ClientSampleId :
FDSB-05(25-27)

Tot Ion	Ratio	Resp	Lower	Upper
113	100	502614		
111	103.4	81.6	122.4	
192	22.2	16.5	24.7	

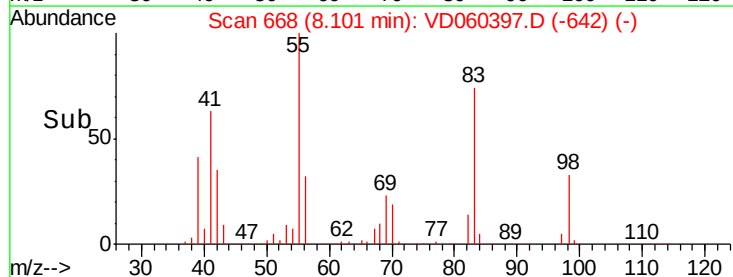
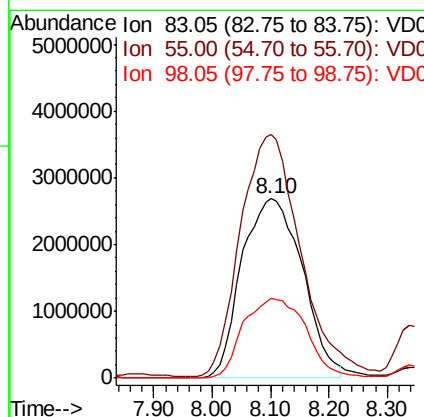
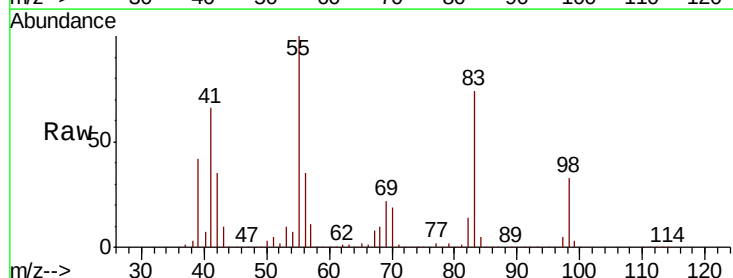
Manual Integrations
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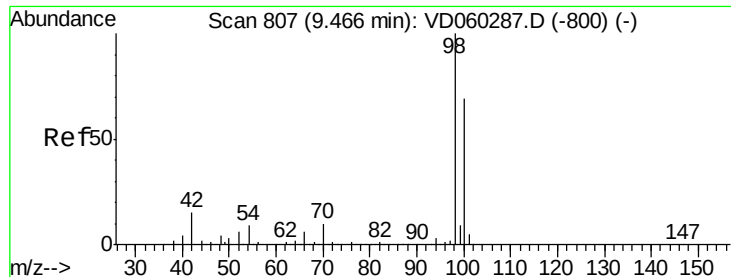
sam
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#39
Methylcyclohexane
Concen: 834.261 ug/l
RT: 8.10 min Scan# 668
Delta R.T. 0.05 min
Lab File: VD060397.D
Acq: 16 Nov 2018 14:46

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	19513912		
55	135.8	71.2	106.8#	
98	44.2	38.4	57.6	





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.50 min Scan# 810

Delta R.T. 0.03 min

Lab File: VD060397.D

Acq: 16 Nov 2018 14:46

Instrument :

MSVOA_D

ClientSampleId :

FDSB-05(25-27)

Tot Ion: 98 Resp: 2914494

Ion Ratio Lower Upper

98 100

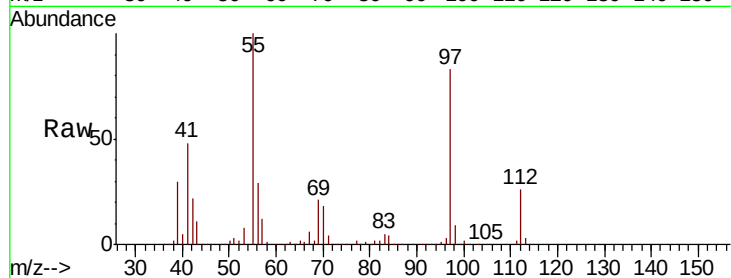
100 17.4 55.2 82.8#

Manual Integrations

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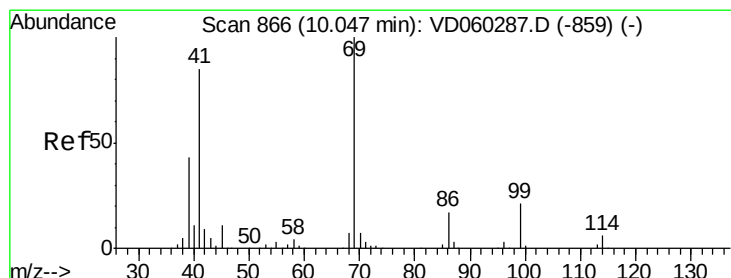
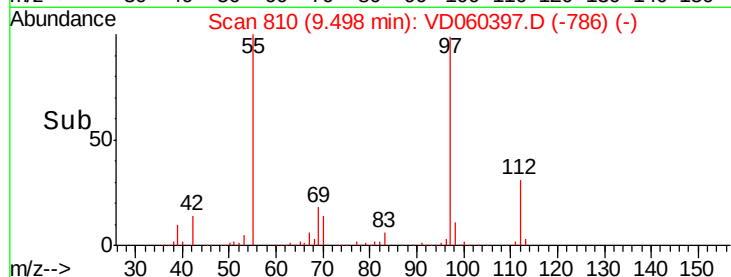
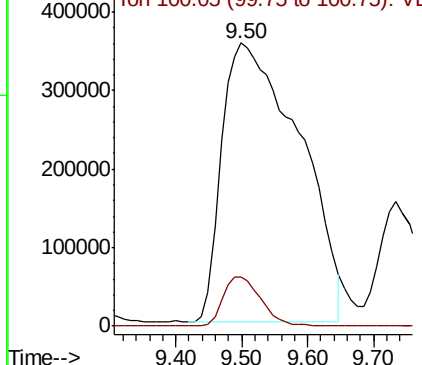
sam

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Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#56

Ethyl methacrylate

Concen: 804.247 ug/l

RT: 9.98 min Scan# 859

Delta R.T. -0.07 min

Lab File: VD060397.D

Acq: 16 Nov 2018 14:46

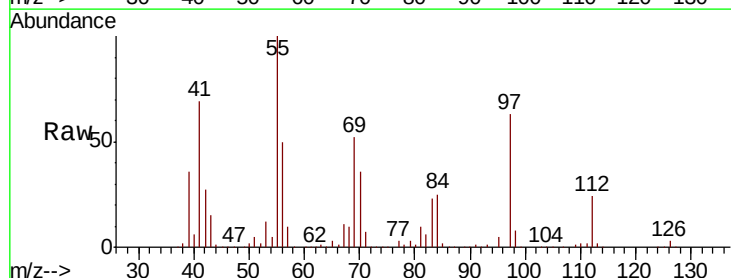
Tgt Ion: 69 Resp: 7107135

Ion Ratio Lower Upper

69 100

41 131.9 69.0 103.4#

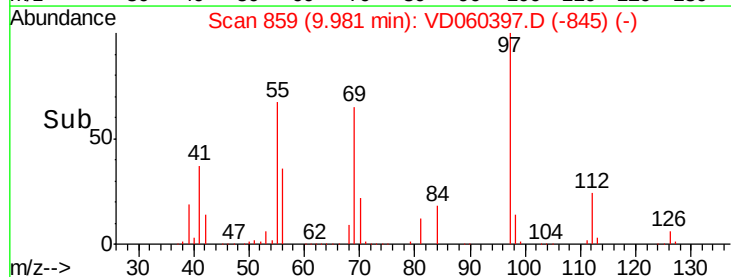
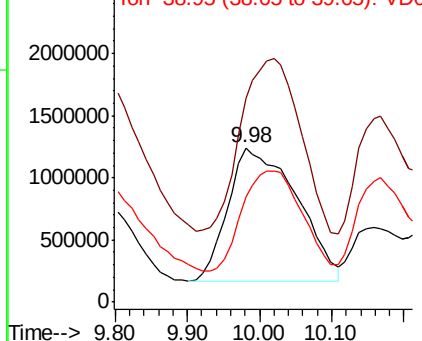
39 68.0 36.6 54.8#

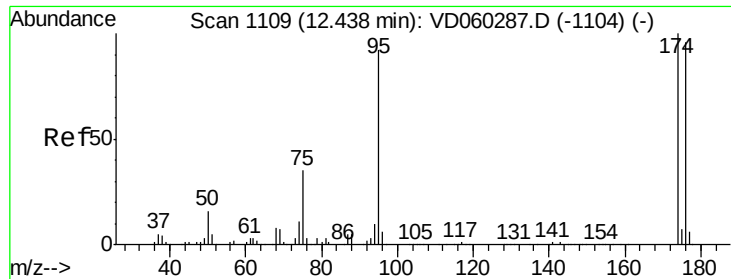


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.44 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VD060397.D

Acq: 16 Nov 2018 14:46

Instrument :

MSVOA_D

ClientSampleId :

FDSB-05(25-27)

Tot Ion: 95 Resp: 2063859

Ion Ratio Lower Upper

95 100

174 0.1 0.0 160.8

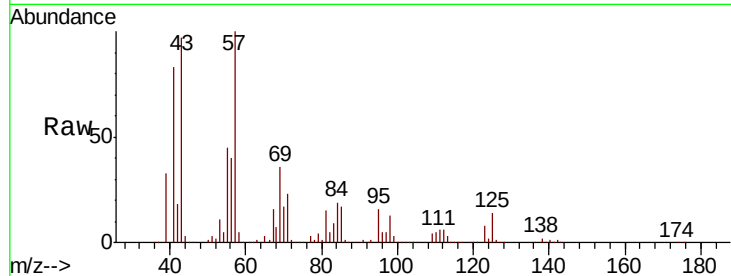
176 0.1 0.0 154.6

Manual Integrations

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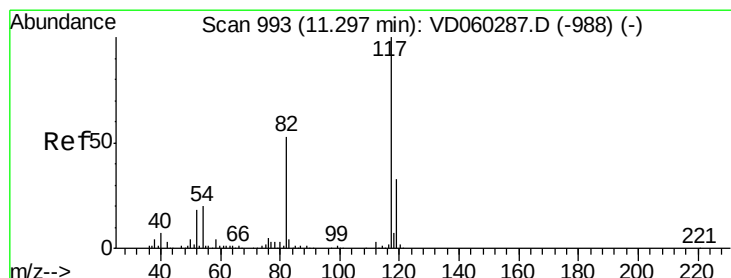
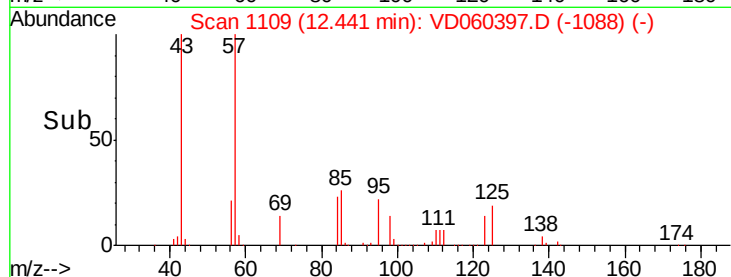
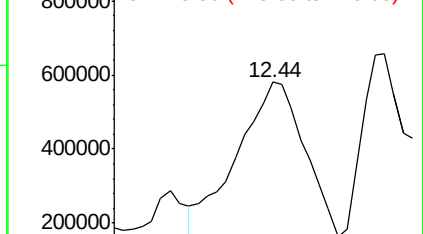
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Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.33 min Scan# 996

Delta R.T. 0.03 min

Lab File: VD060397.D

Acq: 16 Nov 2018 14:46

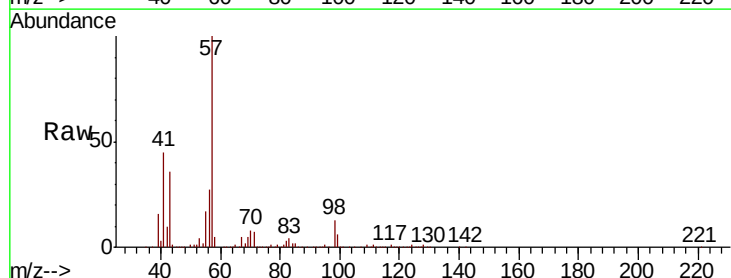
Tgt Ion: 117 Resp: 281202

Ion Ratio Lower Upper

117 100

82 233.6 43.7 65.5#

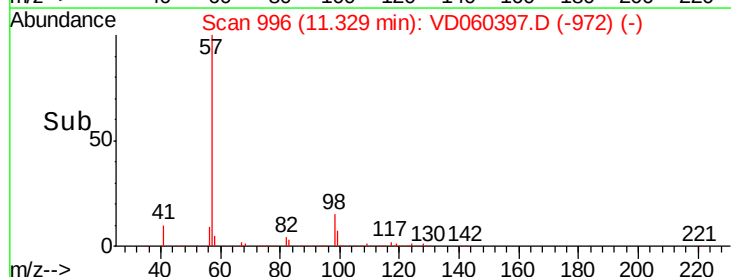
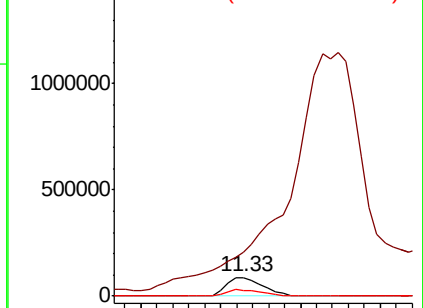
119 31.2 26.1 39.1

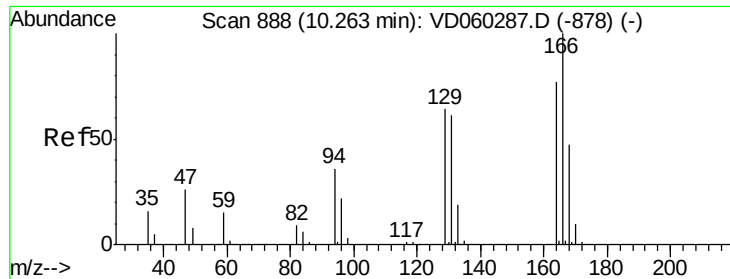


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





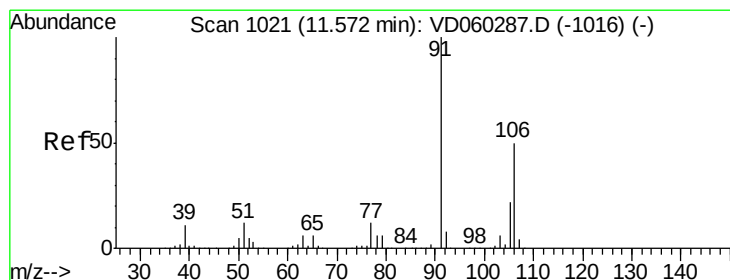
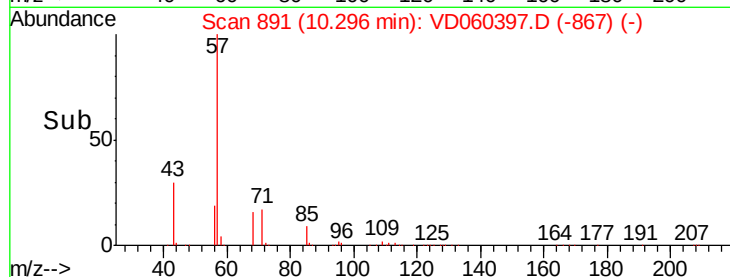
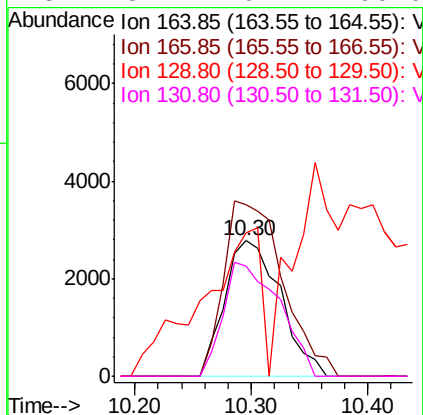
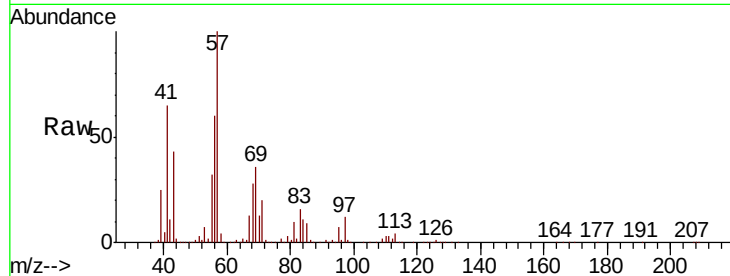
#64
Tetrachloroethene
Concen: 3.674 ug/l
RT: 10.30 min Scan# 891
Delta R.T. 0.03 min
Lab File: VD060397.D
Acq: 16 Nov 2018 14:46

Instrument :
MSVOA_D
ClientSampleId :
FDSB-05(25-27)

Tot Ion	Ratio	Lower	Upper
164	100		
166	126.1	103.7	155.5
129	106.2	65.6	98.4
131	81.4	64.4	96.6

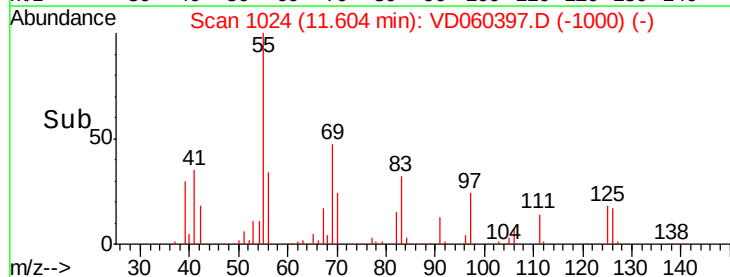
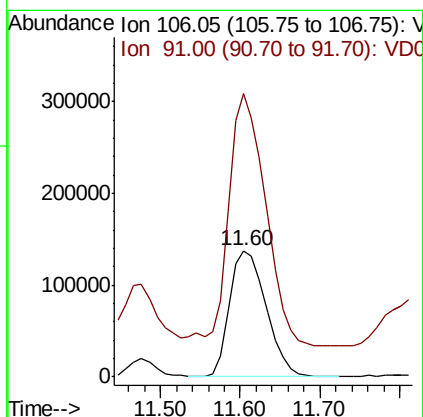
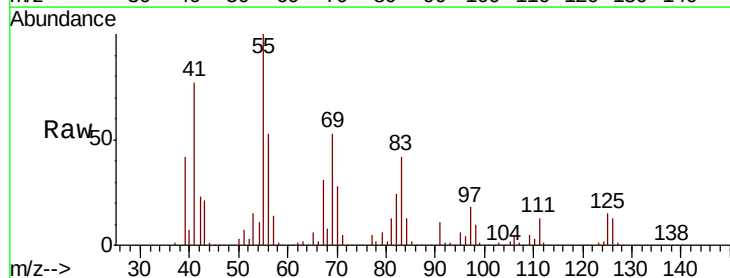
Manual Integrations
APPROVED

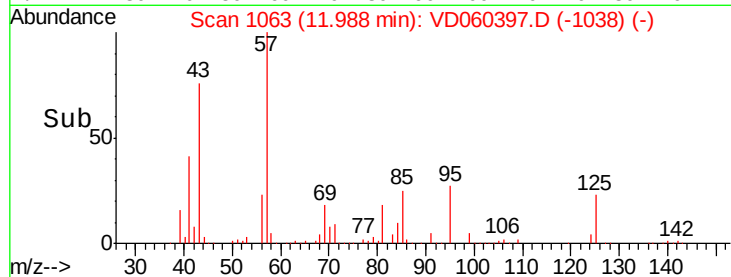
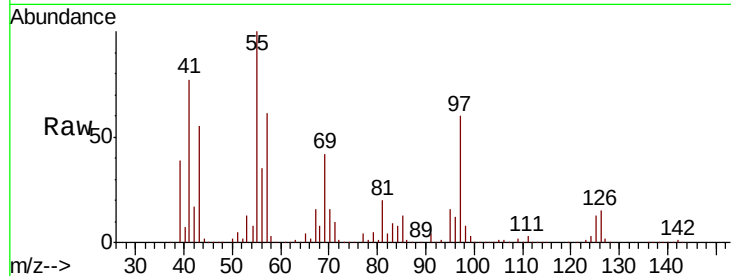
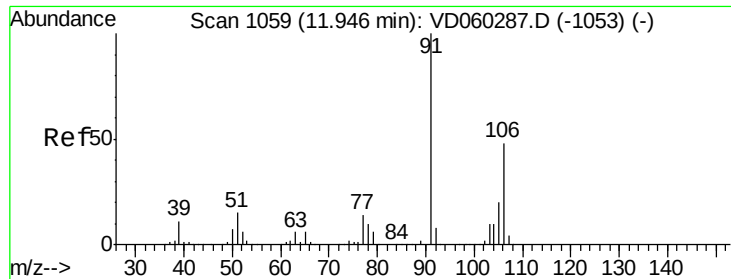
sam
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#68
m/p-Xylenes
Concen: 114.274 ug/l
RT: 11.60 min Scan# 1024
Delta R.T. 0.03 min
Lab File: VD060397.D
Acq: 16 Nov 2018 14:46

Tgt Ion	Ratio	Lower	Upper
106	100		
91	224.7	159.4	239.2





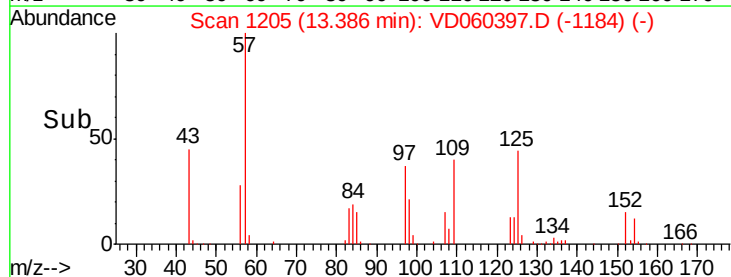
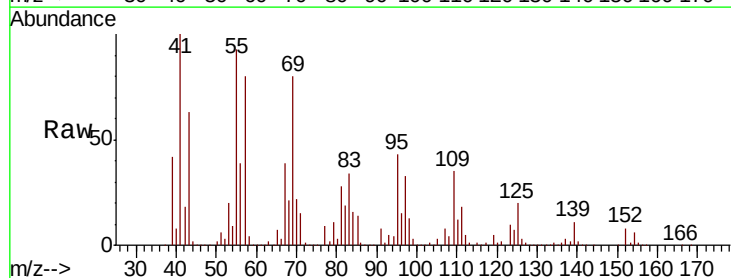
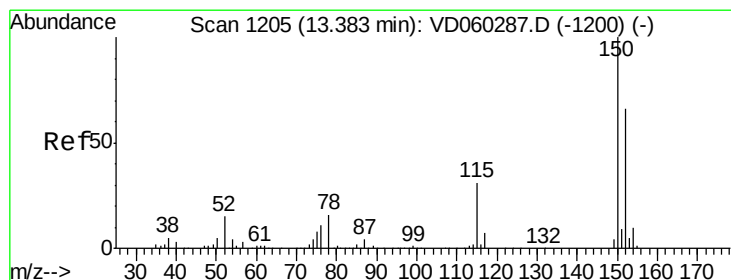
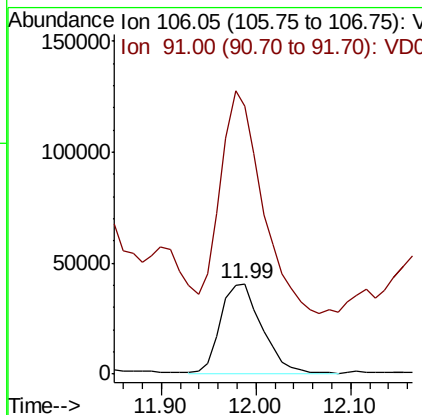
#69
o-Xylene
Concen: 33.527 ug/l
RT: 11.99 min Scan# 1063
Delta R.T. 0.04 min
Lab File: VD060397.D
Acq: 16 Nov 2018 14:46

Tot Ion:106 Resp: 124533
Ion Ratio Lower Upper
106 100
91 295.6 109.2 327.6

Instrument :
MSVOA_D
ClientSampleId :
FDSB-05(25-27)

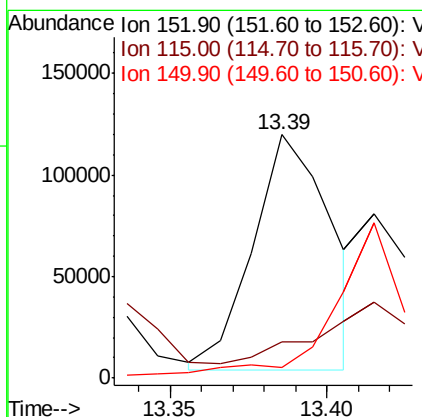
Manual Integrations
APPROVED

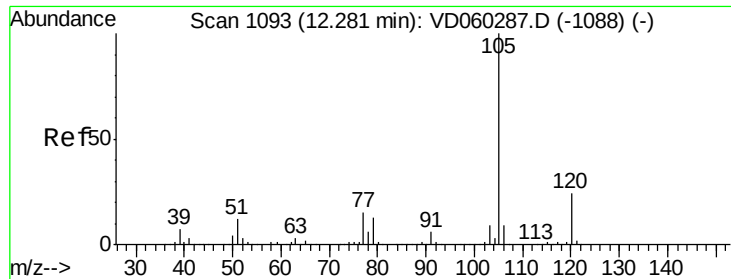
sam
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l m
RT: 13.39 min Scan# 1205
Delta R.T. 0.00 min
Lab File: VD060397.D
Acq: 16 Nov 2018 14:46

Tgt Ion:152 Resp: 202335
Ion Ratio Lower Upper
152 100
115 14.8 24.1 72.3#
150 4.4 0.0 310.6





#73

Isopropylbenzene

Concen: 437.001 ug/l

RT: 12.33 min Scan# 1098

Delta R.T. 0.05 min

Lab File: VD060397.D

Acq: 16 Nov 2018 14:46

Instrument :

MSVOA_D

ClientSampleId :

FDSB-05(25-27)

Tot Ion:105 Resp: 6442085

Ion Ratio Lower Upper

105 100

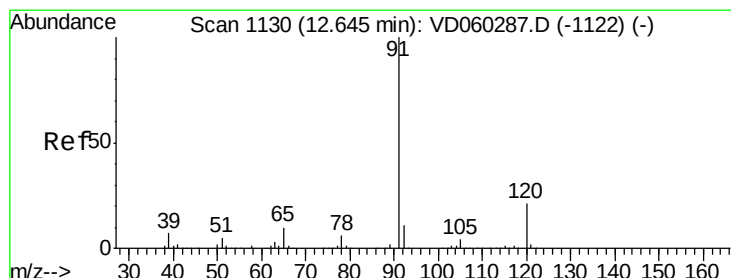
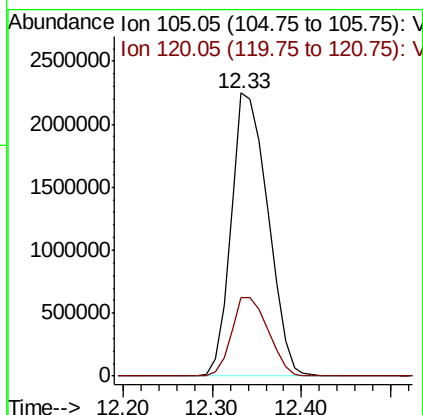
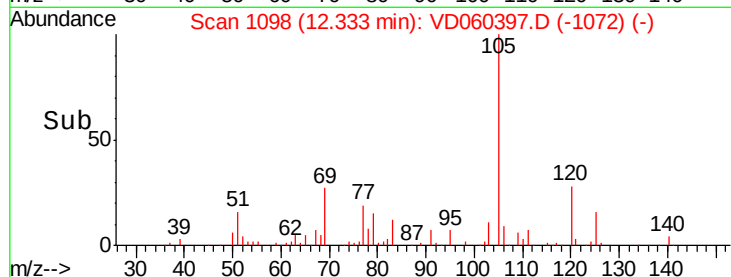
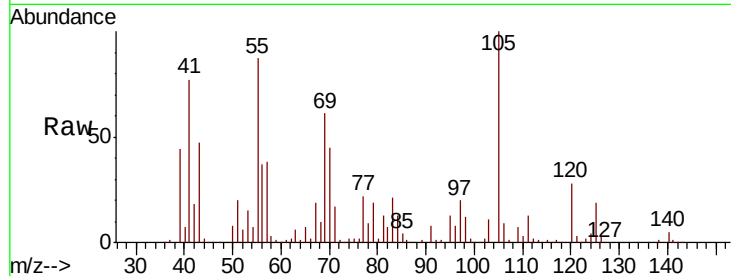
120 27.8 12.1 36.3

Manual Integrations

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sam

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#78

n-propylbenzene

Concen: 688.604 ug/l

RT: 12.71 min Scan# 1136

Delta R.T. 0.06 min

Lab File: VD060397.D

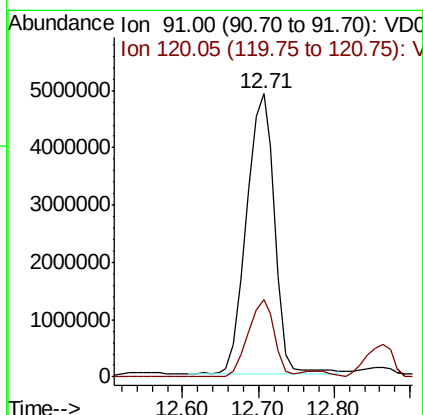
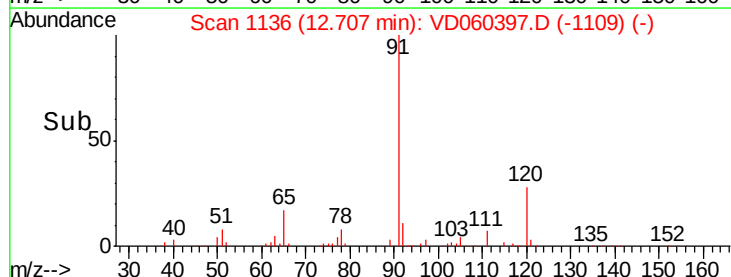
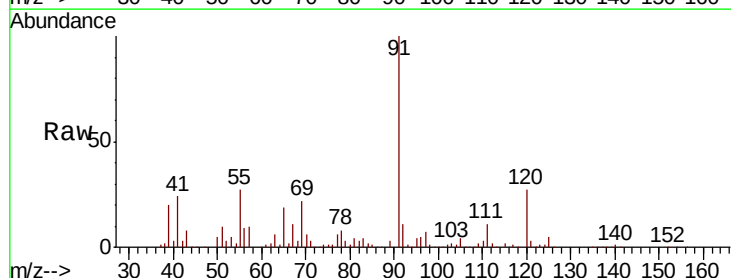
Acq: 16 Nov 2018 14:46

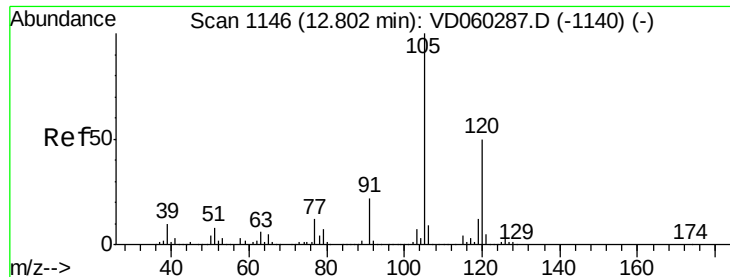
Tgt Ion: 91 Resp:12670485

Ion Ratio Lower Upper

91 100

120 27.4 10.4 31.4





#80

1,3,5-Trimethylbenzene

Concen: 78.753 ug/l

RT: 12.78 min Scan# 1143

Delta R.T. -0.03 min

Lab File: VD060397.D

Acq: 16 Nov 2018 14:46

Instrument :

MSVOA_D

ClientSampleId :

FDSB-05(25-27)

Tot Ion:105 Resp: 902237

Ion Ratio Lower Upper

105 100

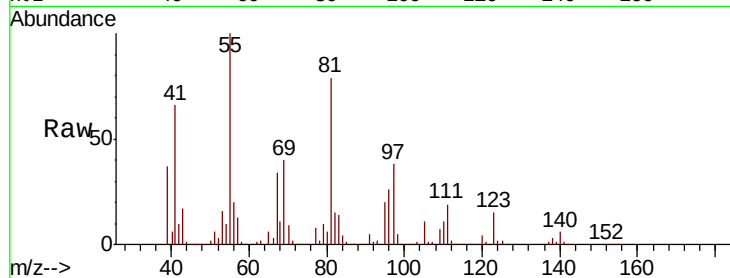
120 32.9 24.4 73.4

Manual Integrations

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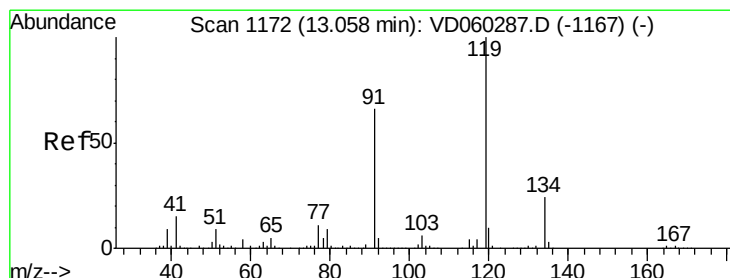
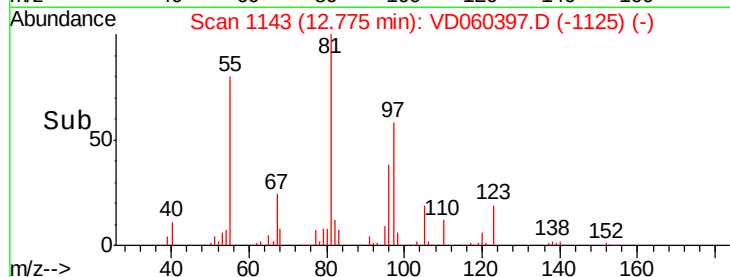
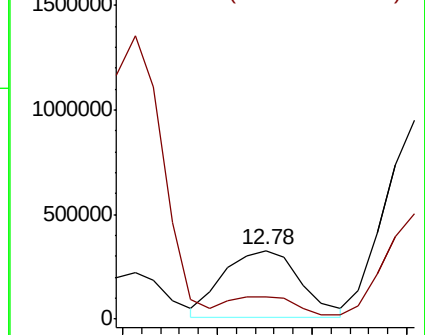
sam

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#83

tert-Butylbenzene

Concen: 46.878 ug/l

RT: 13.09 min Scan# 1175

Delta R.T. 0.03 min

Lab File: VD060397.D

Acq: 16 Nov 2018 14:46

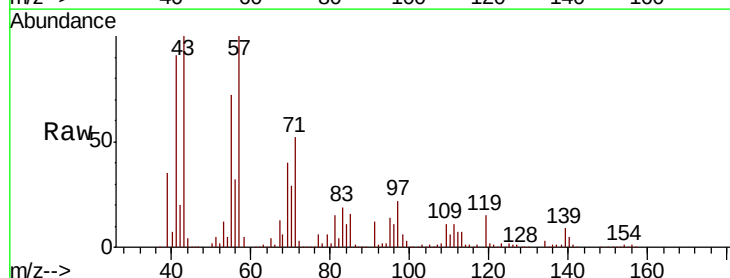
Tgt Ion:119 Resp: 596249

Ion Ratio Lower Upper

119 100

91 80.5 32.7 98.1

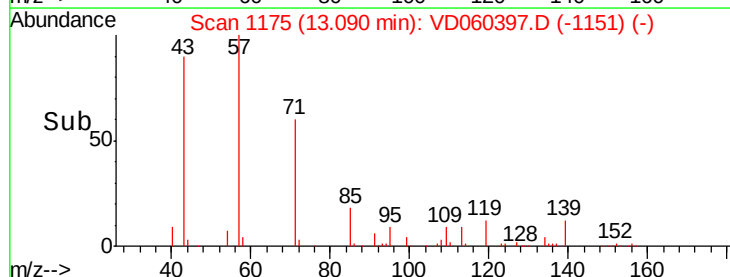
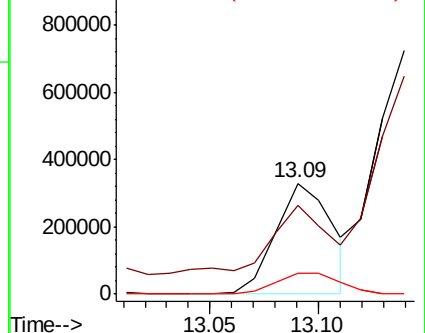
134 18.6 12.1 36.3

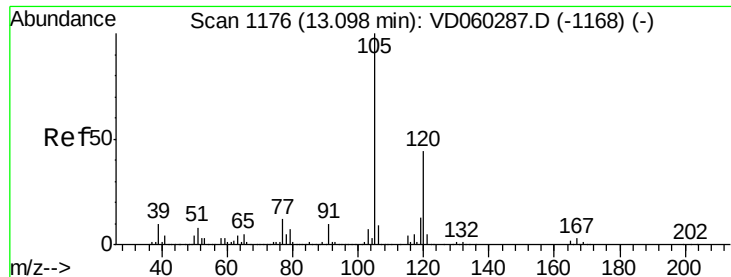


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V





#84

1,2,4-Trimethylbenzene

Concen: 1342.296 ug/l

RT: 13.15 min Scan# 1181

Delta R.T. 0.05 min

Lab File: VD060397.D

Acq: 16 Nov 2018 14:46

Instrument :

MSVOA_D

ClientSampleId :

FDSB-05(25-27)

Tot Ion:105 Resp:15357983

Ion Ratio Lower Upper

105 100

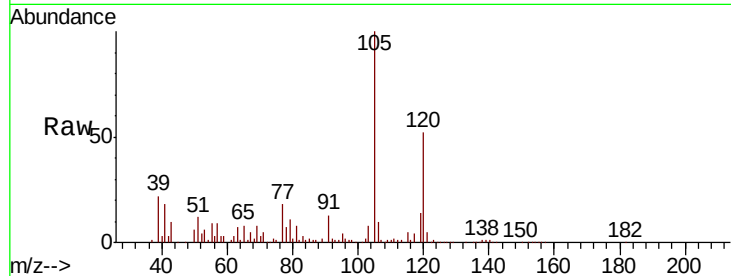
120 51.6 21.9 65.8

Manual Integrations

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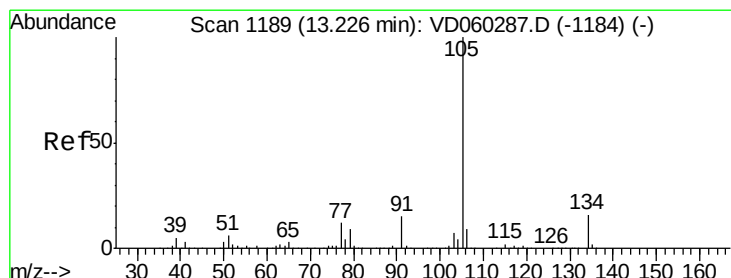
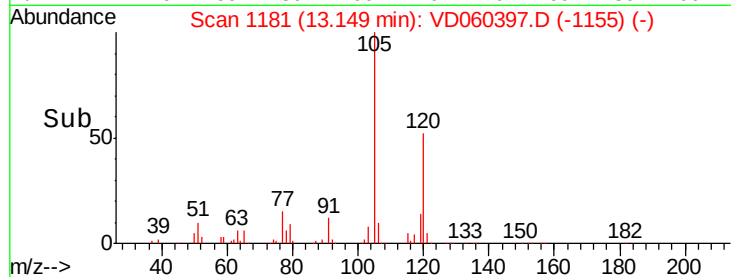
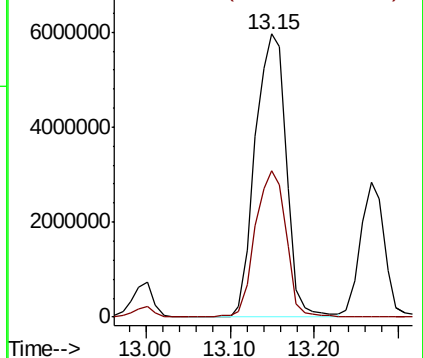
sam

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#85

sec-Butylbenzene

Concen: 355.886 ug/l

RT: 13.27 min Scan# 1193

Delta R.T. 0.04 min

Lab File: VD060397.D

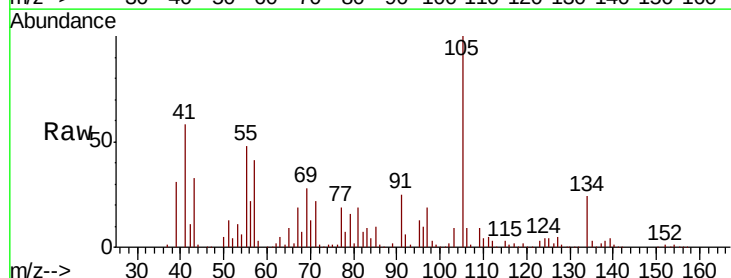
Acq: 16 Nov 2018 14:46

Tgt Ion:105 Resp: 5553583

Ion Ratio Lower Upper

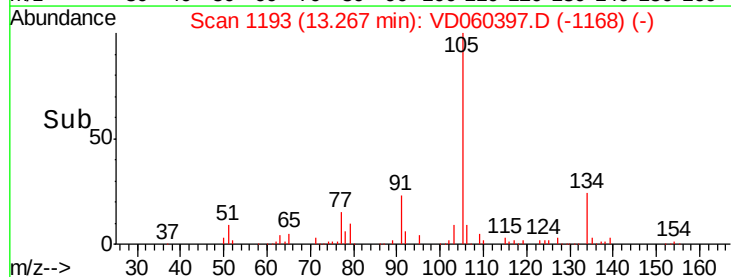
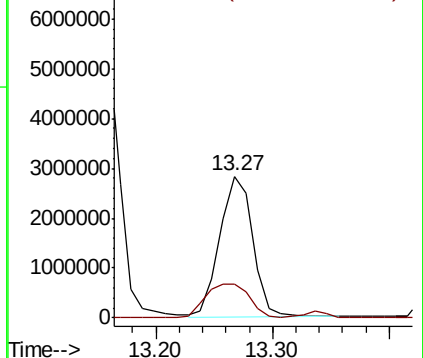
105 100

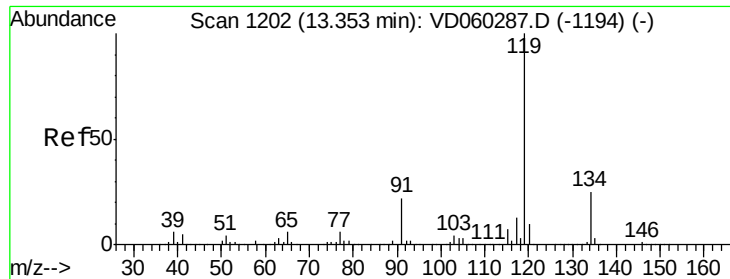
134 23.8 8.0 24.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V





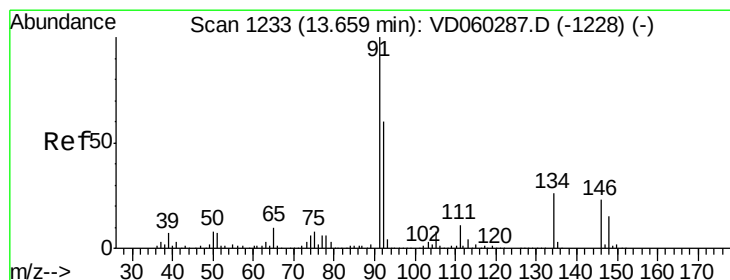
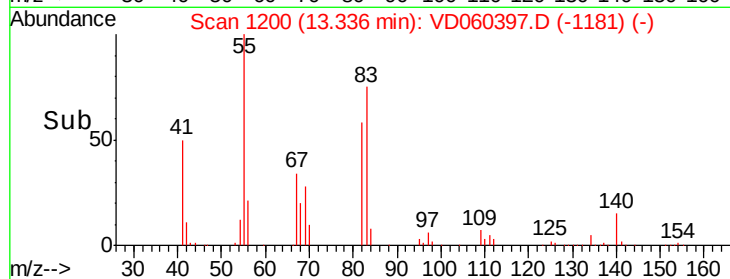
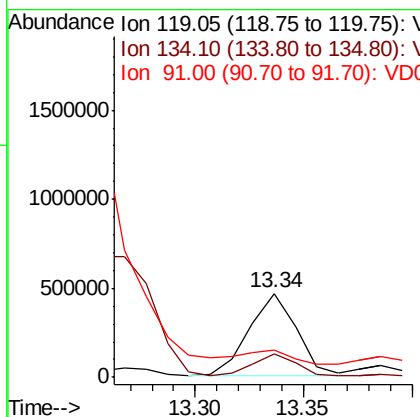
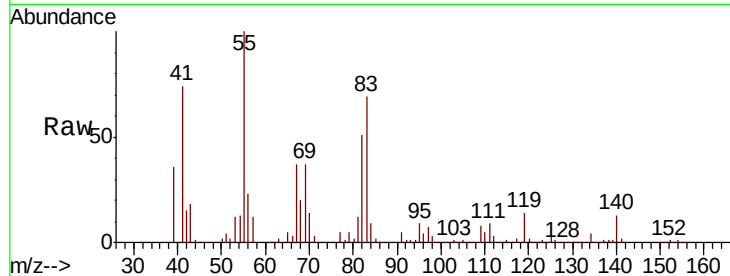
#86
 p-Isopropyltoluene
 Concen: 56.287 ug/l
 RT: 13.34 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VD060397.D
 Acq: 16 Nov 2018 14:46

Instrument :
 MSVOA_D
 ClientSampleId :
 FDSB-05(25-27)

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.7	12.9	38.6
91	33.1	11.3	33.8

Manual Integrations
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#89
 n-Butylbenzene
 Concen: 375.310 ug/l
 RT: 13.67 min Scan# 1234
 Delta R.T. 0.01 min
 Lab File: VD060397.D
 Acq: 16 Nov 2018 14:46

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.8	30.3	90.9
134	26.4	13.0	38.9

