

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080620\
 Data File : VD066139.D
 Acq On : 06 Aug 2020 17:22
 Operator : VA/SY
 Sample : L3563-01
 Misc : 2.43G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 NB-30860

Manual Integrations
 APPROVED

MMDadoda
 8/7/2020 2:09:50 PM

Quant Time: Aug 07 04:11:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:49:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	262413	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	444412	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	380085	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	86121	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	118931	50.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.60%	
35) Dibromofluoromethane	7.91	113	136076	48.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.66%	
50) Toluene-d8	10.34	98	526148	50.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.28%	
62) 4-Bromofluorobenzene	12.64	95	140124	37.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.84%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.70	74	1362	1.163	ug/l	51
11) Tert butyl alcohol	5.22	59	229868	1505.730	ug/l	95
16) Acetone	4.15	43	5530837	12450.931	ug/l	99
17) Carbon Disulfide	4.40	76	67827	9.179	ug/l	100
25) 2-Butanone	7.21	43	227225	347.784	ug/l	97
31) Cyclohexane	7.96	56	440096	107.301	ug/l #	48
39) Methylcyclohexane	9.35	83	646418	128.047	ug/l	96
40) Benzene	8.35	78	108200	9.340	ug/l	98
51) 4-Methyl-2-Pentanone	10.23	43	315923	188.657	ug/l	99
52) Toluene	10.40	92	7077841	928.475	ug/l	96
67) Ethyl Benzene	11.74	91	1201112	89.831	ug/l	100
68) m/p-Xylenes	11.85	106	620552	119.788	ug/l	99
69) o-Xylene	12.18	106	228212	48.427	ug/l	97
73) Isopropylbenzene	12.48	105	84868	14.763	ug/l	99
78) n-propylbenzene	12.83	91	199987	29.927	ug/l	98
80) 1,3,5-Trimethylbenzene	12.96	105	83063	17.277	ug/l	100
82) 4-Chlorotoluene	12.97	91	9383	2.326	ug/l #	60
84) 1,2,4-Trimethylbenzene	13.27	105	336464	69.930	ug/l	98
85) sec-Butylbenzene	13.41	105	37840	6.629	ug/l #	75
86) p-Isopropyltoluene	13.52	119	24641	4.602	ug/l	89
89) n-Butylbenzene	13.85	91	172084m	35.873	ug/l	
95) Naphthalene	15.41	128	1751035	592.850	ug/l	99

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

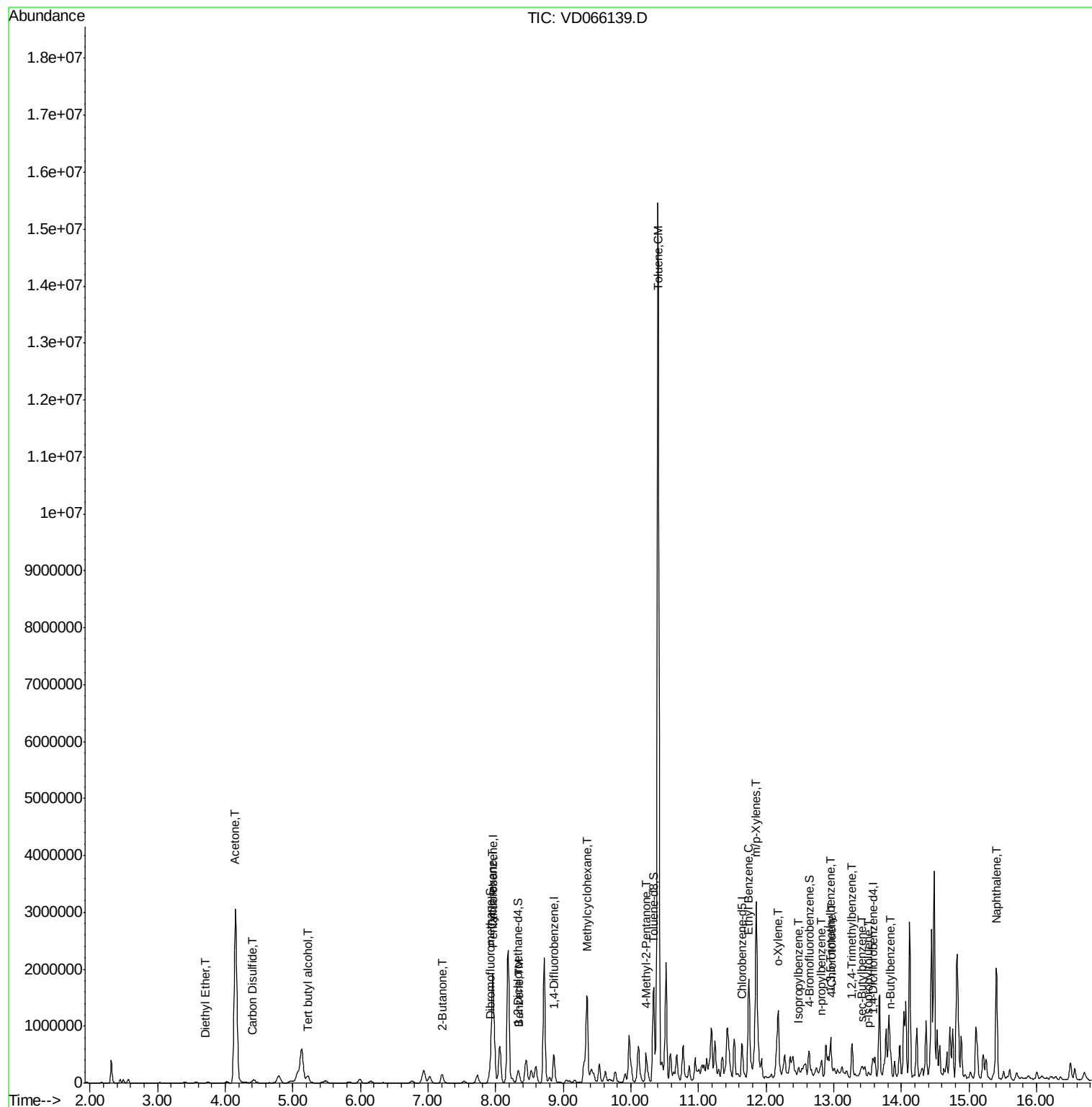
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080620\
Data File : VD066139.D
Acq On : 06 Aug 2020 17:22
Operator : VA/SY
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Misc : 2.43G/5.00ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

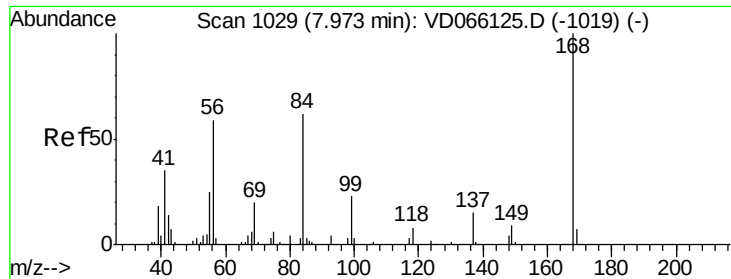
Instrument :
MSVOA_D
ClientSampleId :
NB-30860

Manual Integrations
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Quant Time: Aug 07 04:11:26 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D080520S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 05 13:49:25 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VD066139.D

Acq: 06 Aug 2020 17:22

Instrument :

MSVOA_D

ClientSampleId :

NB-30860

Tot Ion:168 Resp: 262413

Ion Ratio Lower Upper

168 100

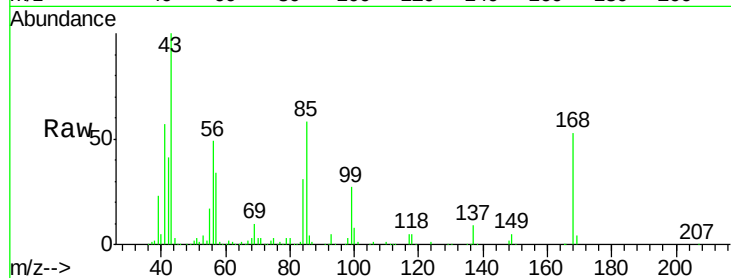
99 50.7 42.2 63.4

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

120000

100000

80000

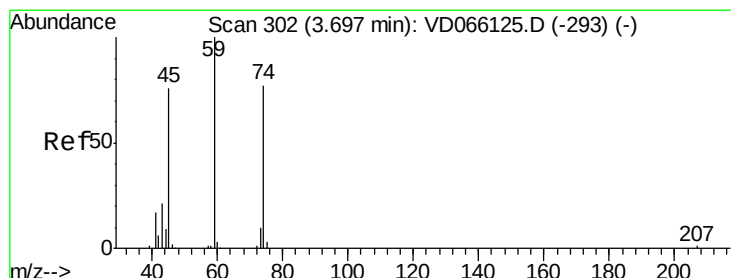
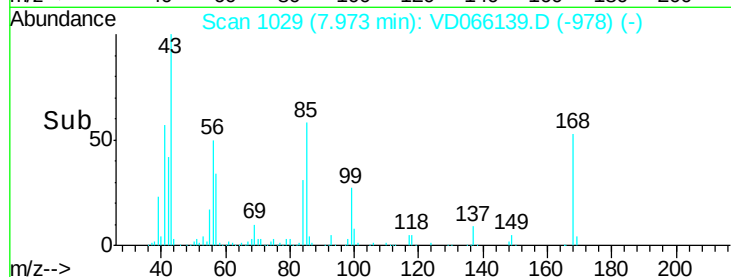
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.163 ug/l

RT: 3.70 min Scan# 303

Delta R.T. 0.01 min

Lab File: VD066139.D

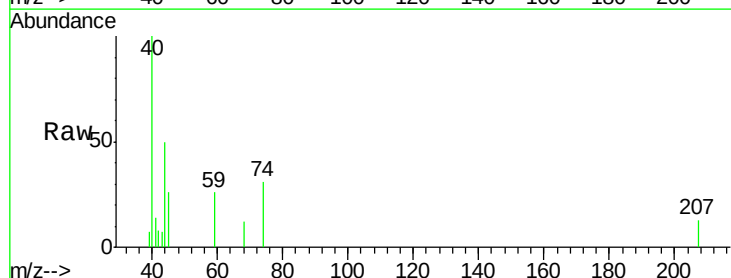
Acq: 06 Aug 2020 17:22

Tgt Ion: 74 Resp: 1362

Ion Ratio Lower Upper

74 100

45 144.6 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

3.70

800

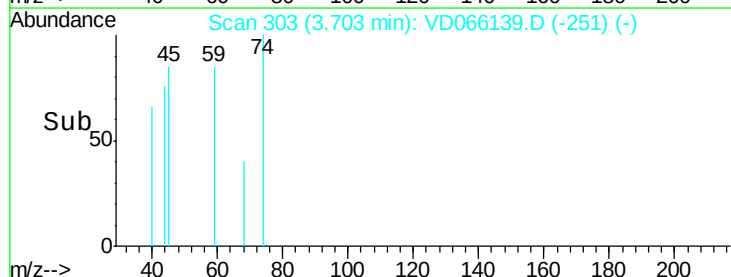
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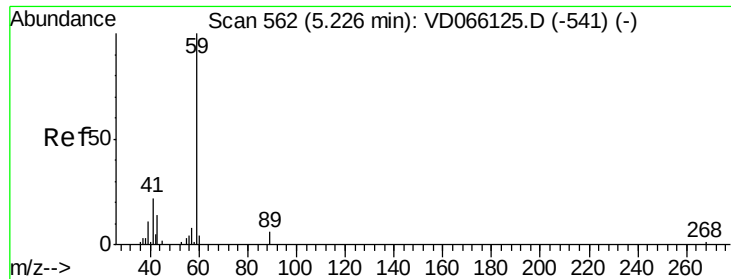
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200

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Time-->





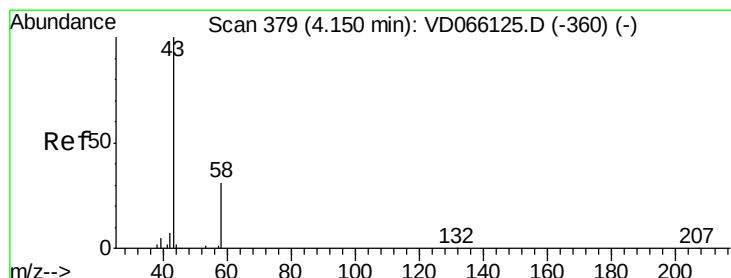
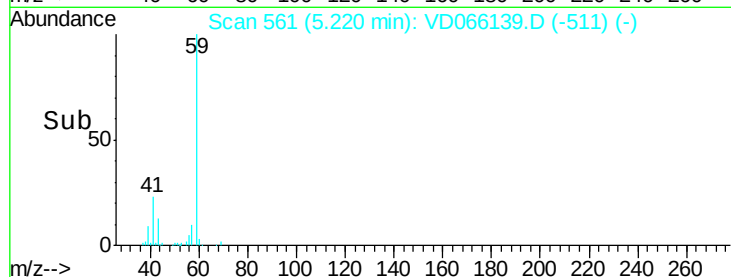
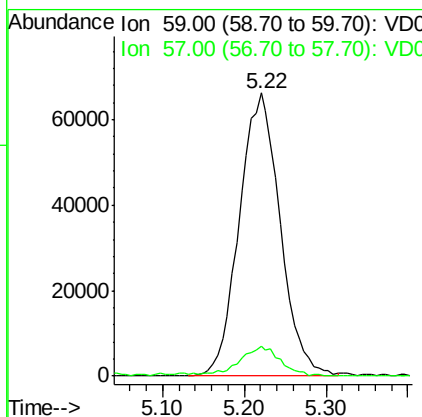
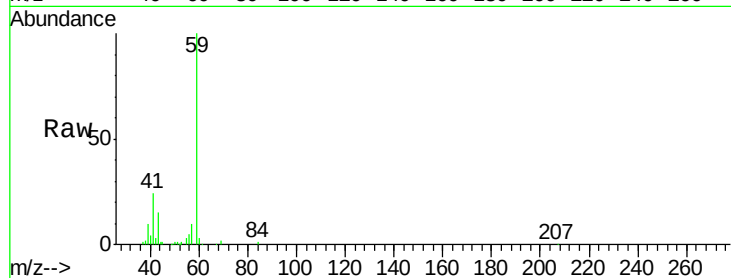
#11
Tert butyl alcohol
Concen: 1505.730 ug/l
RT: 5.22 min Scan# 561
Delta R.T. -0.01 min
Lab File: VD066139.D
Acq: 06 Aug 2020 17:22

Instrument :
MSVOA_D
ClientSampleId :
NB-30860

Tot Ion	Ratio	Resp	Lower	Upper
59	100	229868		
57	10.4		7.0	10.4

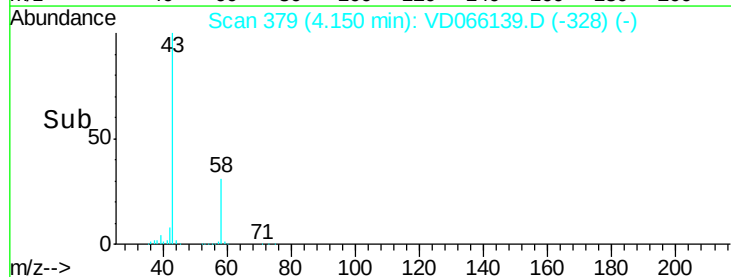
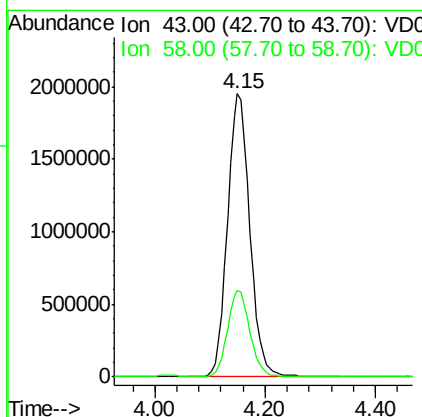
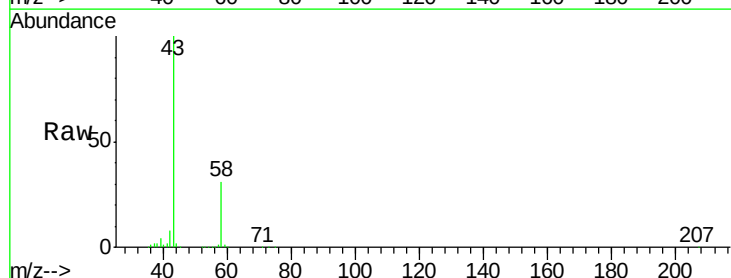
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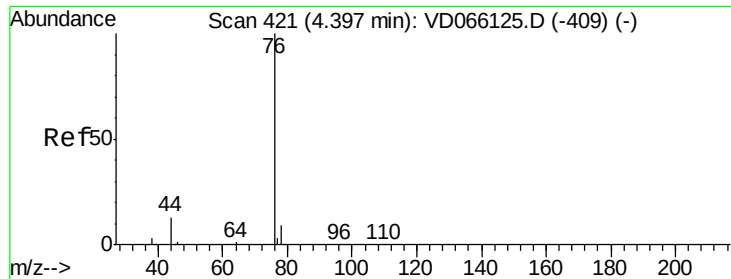
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#16
Acetone
Concen: 12450.931 ug/l
RT: 4.15 min Scan# 379
Delta R.T. 0.00 min
Lab File: VD066139.D
Acq: 06 Aug 2020 17:22

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	5530837		
58	30.5		24.7	37.1





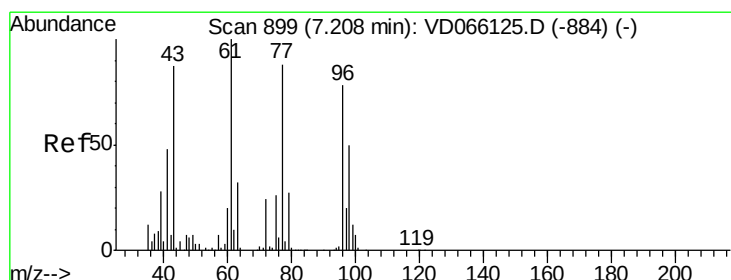
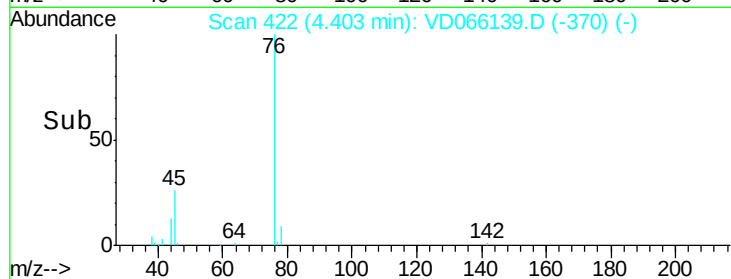
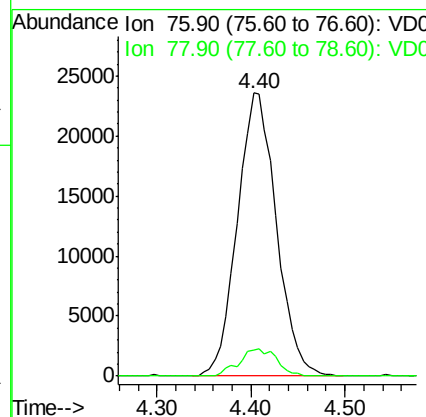
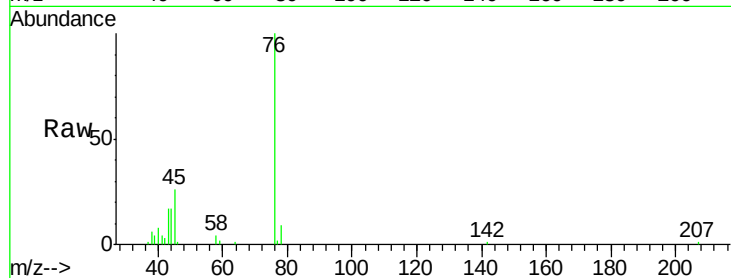
#17
Carbon Disulfide
Concen: 9.179 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.01 min
Lab File: VD066139.D
Acq: 06 Aug 2020 17:22

Instrument :
MSVOA_D
ClientSampled :
NB-30860

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.5	11.3

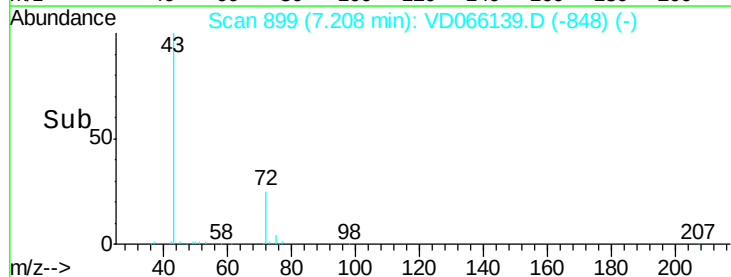
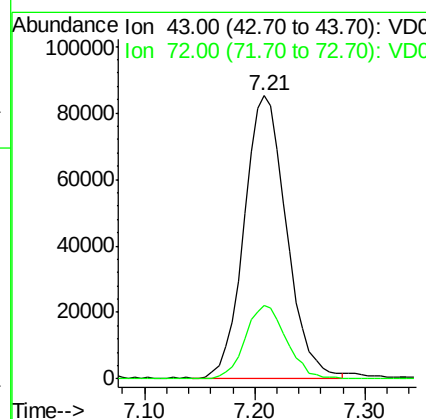
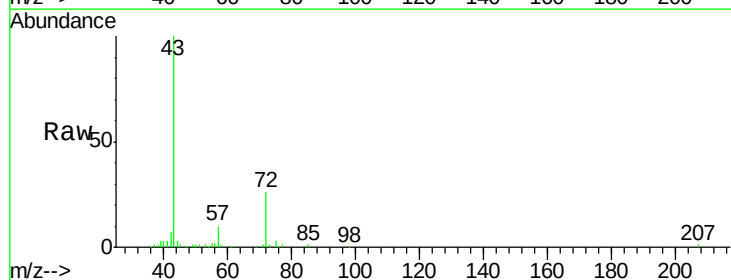
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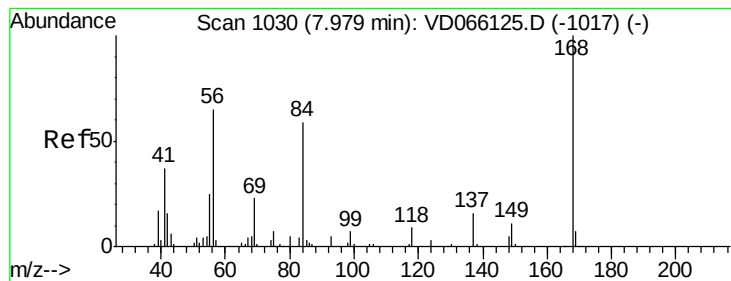
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#25
2-Butanone
Concen: 347.784 ug/l
RT: 7.21 min Scan# 899
Delta R.T. 0.00 min
Lab File: VD066139.D
Acq: 06 Aug 2020 17:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	26.0	22.2	33.2





#31

Cyclohexane

Concen: 107.301 ug/l

RT: 7.96 min Scan# 1026

Delta R.T. -0.02 min

Lab File: VD066139.D

Acq: 06 Aug 2020 17:22

Instrument :

MSVOA_D

ClientSampleId :

NB-30860

Tot Ion: 56 Resp: 440096

Ion Ratio Lower Upper

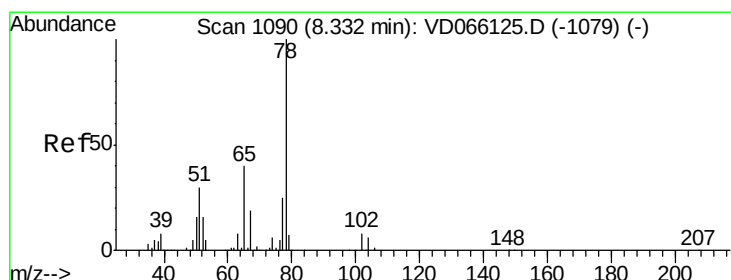
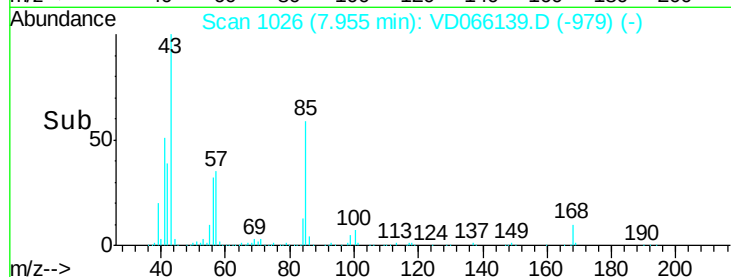
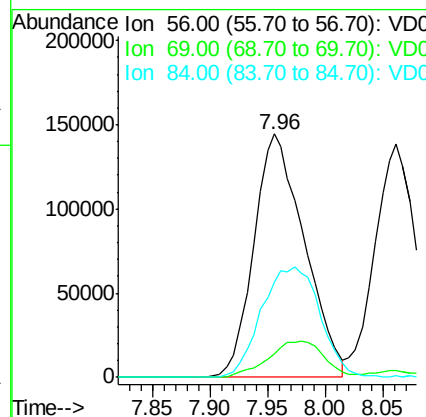
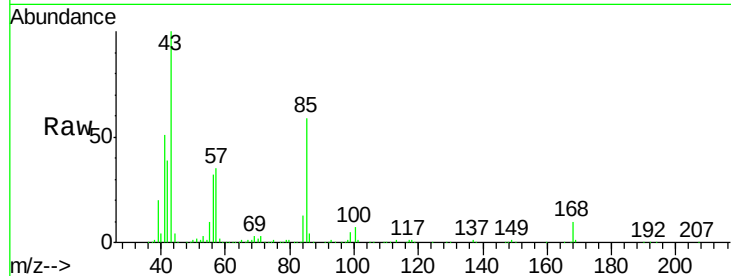
56 100

69 9.7 28.8 43.2#

84 39.3 73.0 109.6#

Manual Integrations
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#33

1,2-Dichloroethane-d4

Concen: 50.801 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD066139.D

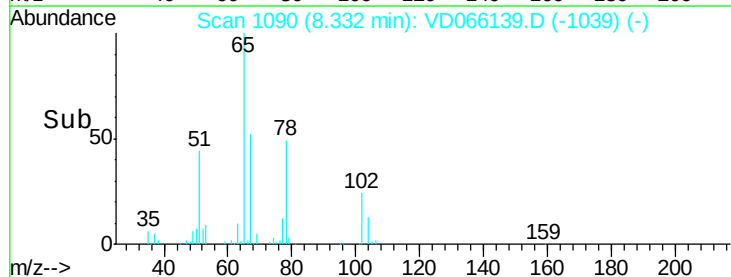
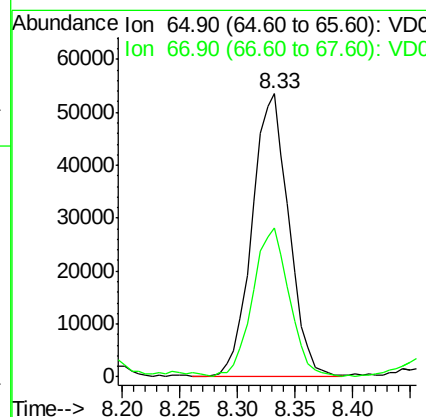
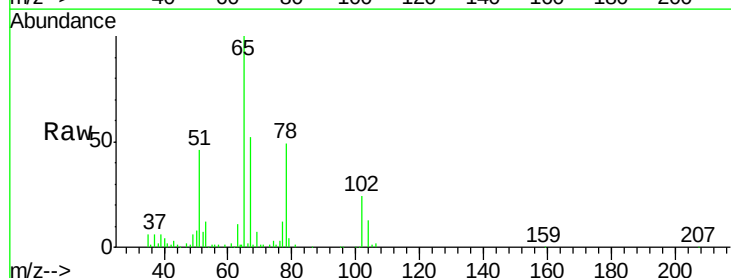
Acq: 06 Aug 2020 17:22

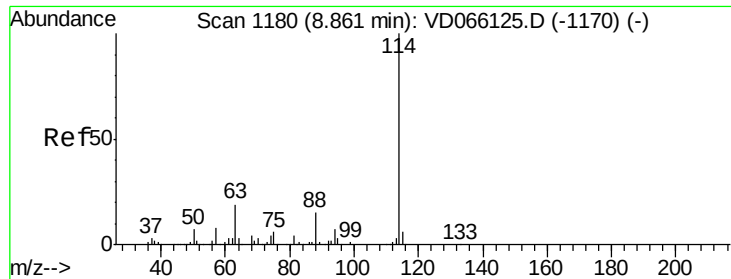
Tgt Ion: 65 Resp: 118931

Ion Ratio Lower Upper

65 100

67 52.5 0.0 104.6





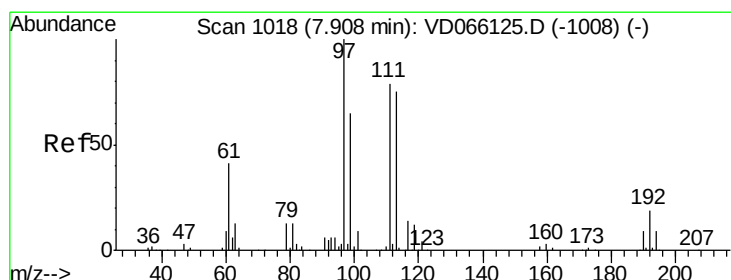
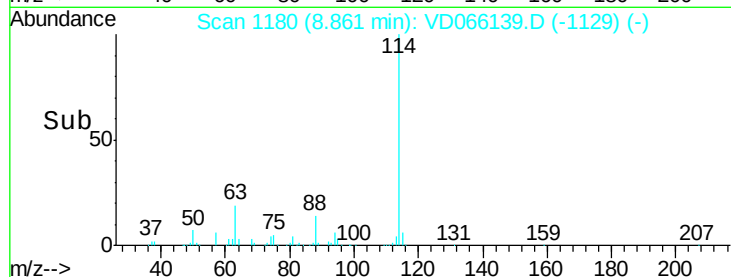
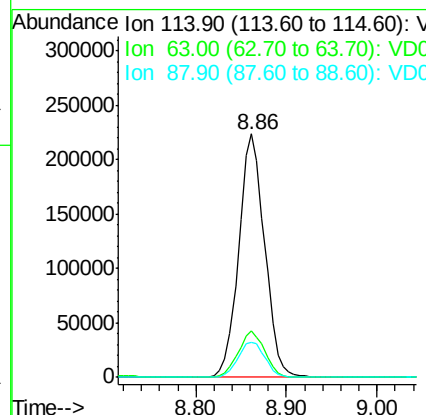
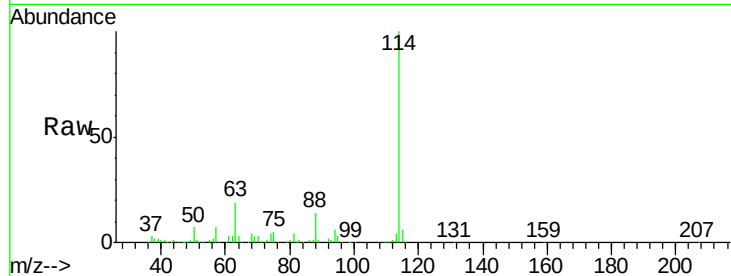
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD066139.D
 Acq: 06 Aug 2020 17:22

Instrument :
 MSVOA_D
 ClientSampled :
 NB-30860

Tot Ion	Ion	Ratio	Resp	Lower	Upper
444412	114	100			
	63	18.9	0.0	38.6	
	88	14.4	0.0	30.0	

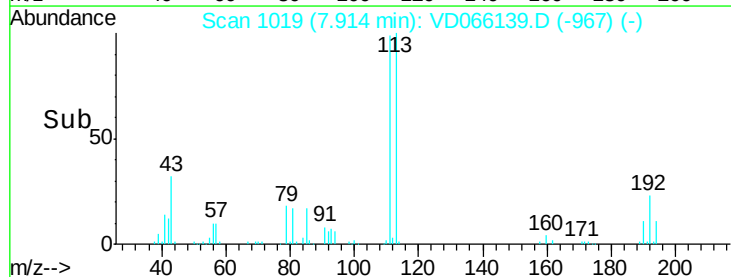
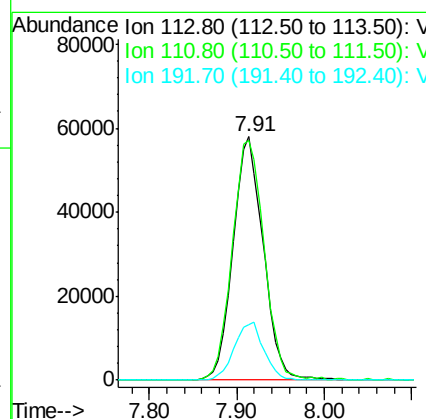
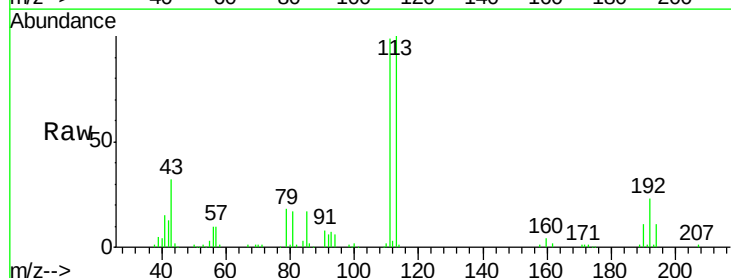
Manual Integrations
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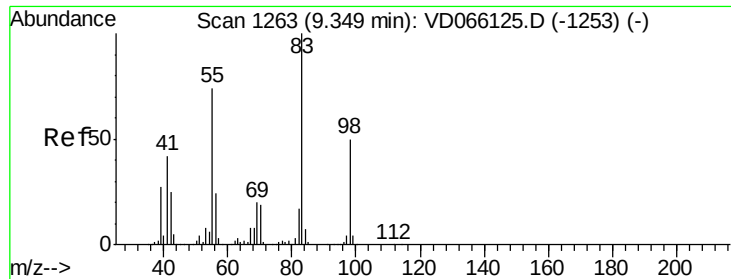
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#35
 Dibromofluoromethane
 Concen: 48.334 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.01 min
 Lab File: VD066139.D
 Acq: 06 Aug 2020 17:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136076	113	100			
	111	103.8	80.7	121.1	
	192	23.2	18.4	27.6	





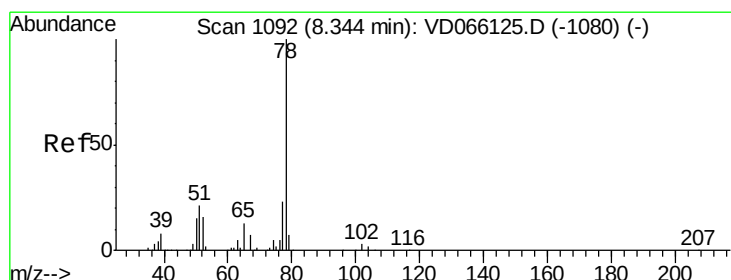
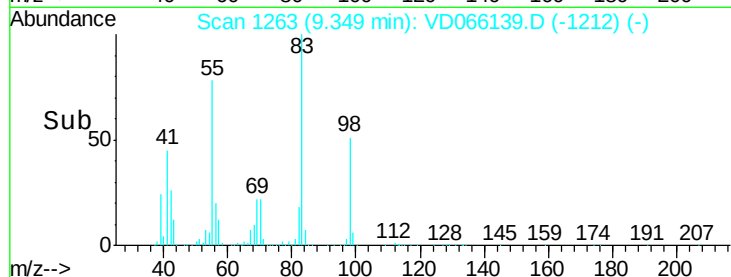
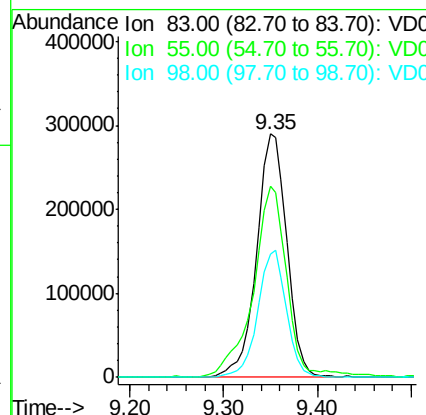
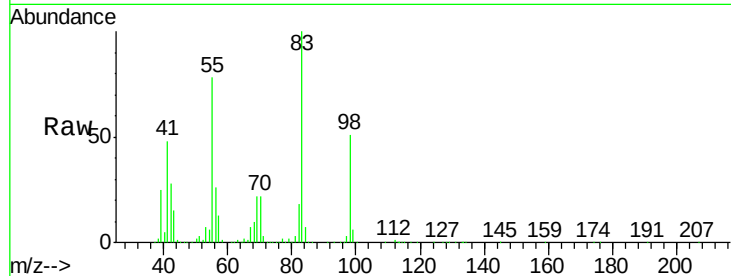
#39
Methylvlcyclohexane
Concen: 128.047 ug/l
RT: 9.35 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VD066139.D
Acq: 06 Aug 2020 17:22

Instrument :
MSVOA_D
ClientSampleId :
NB-30860

Tot Ion	83	Resp	646418
Ion Ratio	100	Lower	Upper
83	100		
55	78.3	59.2	88.8
98	50.8	39.8	59.6

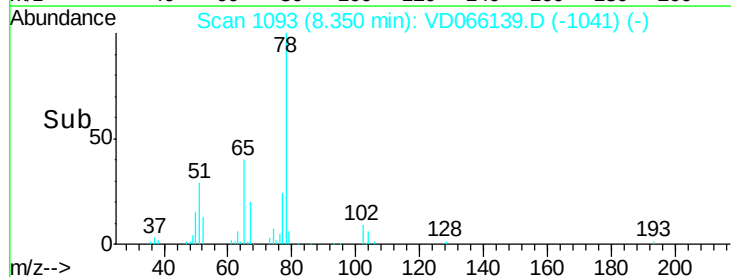
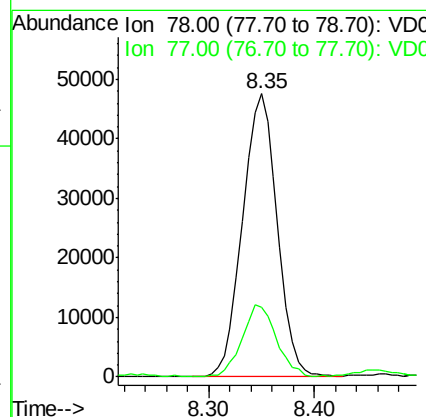
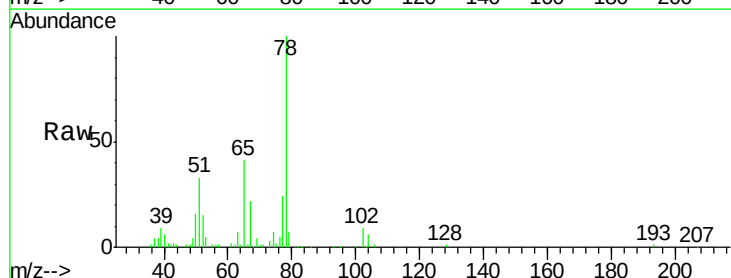
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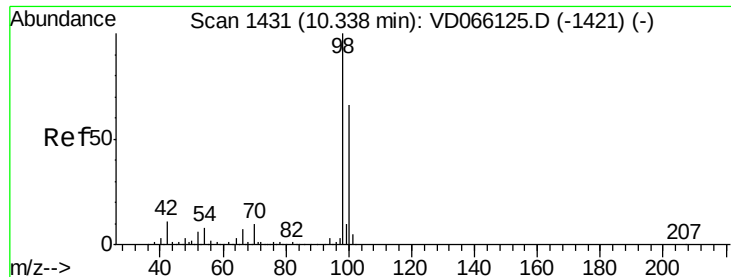
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#40
Benzene
Concen: 9.340 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. 0.01 min
Lab File: VD066139.D
Acq: 06 Aug 2020 17:22

Tgt Ion	78	Resp	108200
Ion Ratio	100	Lower	Upper
78	100		
77	24.1	18.6	27.8





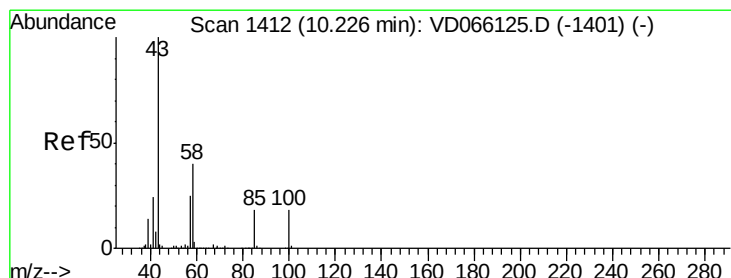
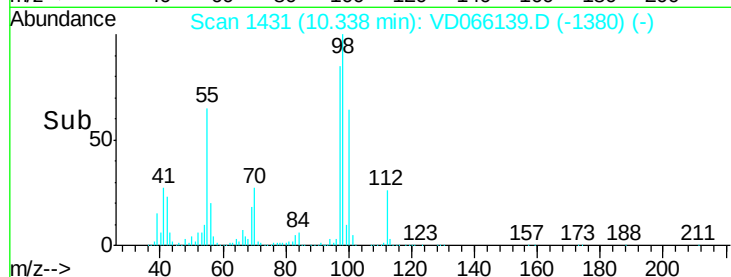
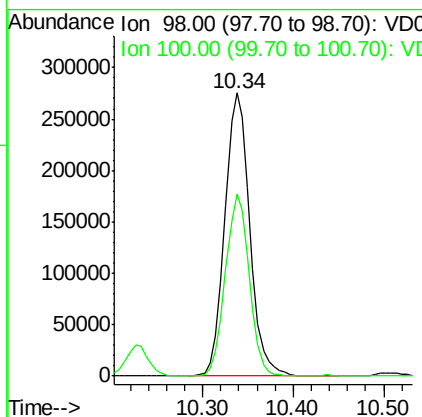
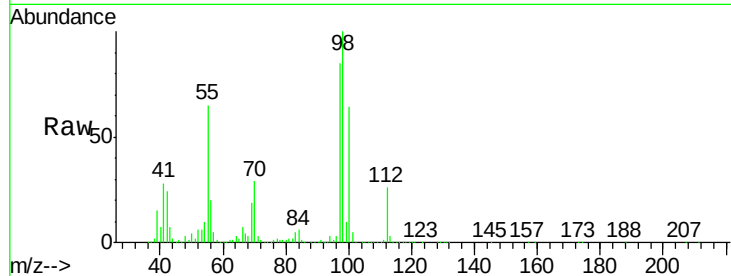
#50
Toluene-d8
Concen: 50.644 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD066139.D
Acq: 06 Aug 2020 17:22

Instrument :
MSVOA_D
ClientSampleId :
NB-30860

Tot Ion	98	100	Ratio	Lower	Upper
98	100				
100		61.4		52.6	78.8

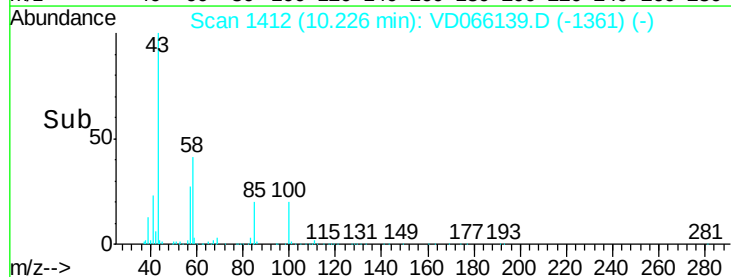
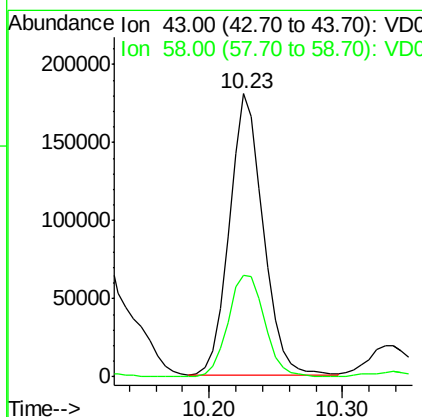
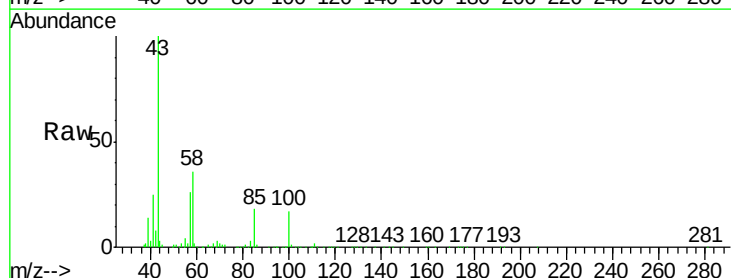
Manual Integrations
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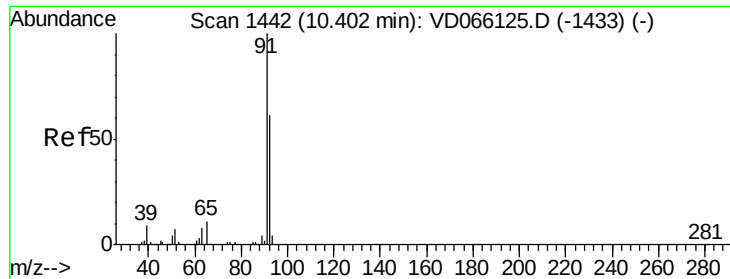
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#51
4-Methyl-2-Pentanone
Concen: 188.657 ug/l
RT: 10.23 min Scan# 1412
Delta R.T. 0.00 min
Lab File: VD066139.D
Acq: 06 Aug 2020 17:22

Tgt Ion	43	58	Ratio	Lower	Upper
43	100				
58		39.7		31.1	46.7





#52

Toluene

Concen: 928.475 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VD066139.D

Acq: 06 Aug 2020 17:22

Instrument :

MSVOA_D

ClientSampleId :

NB-30860

Tot Ion: 92 Resp: 7077841

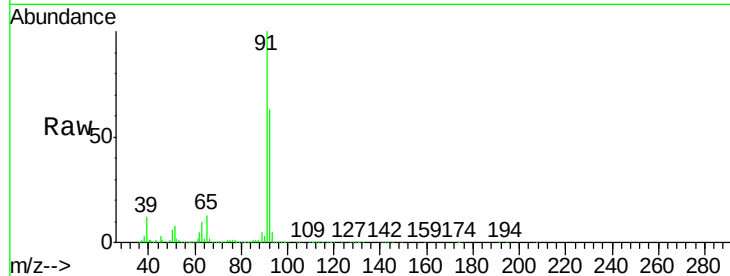
Ion Ratio Lower Upper

92 100

91 163.4 135.2 202.8

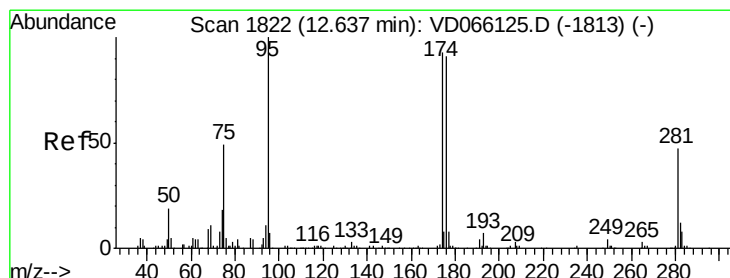
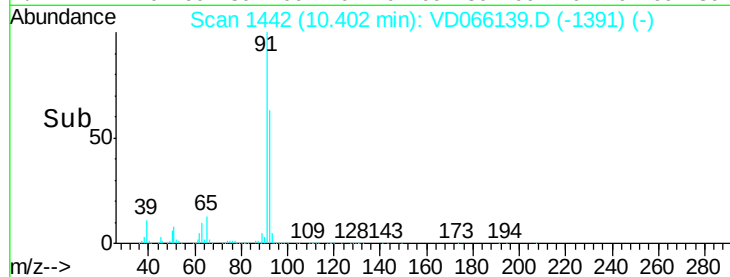
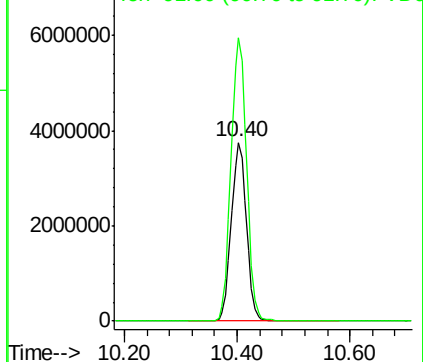
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Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 37.417 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD066139.D

Acq: 06 Aug 2020 17:22

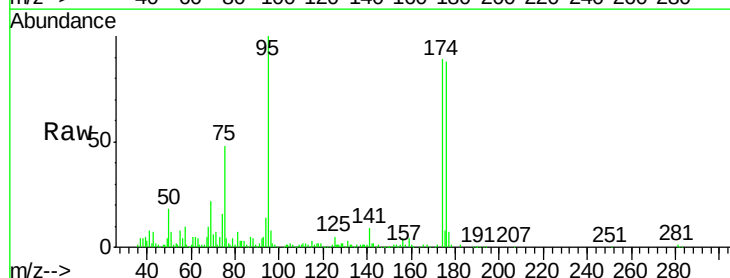
Tgt Ion: 95 Resp: 140124

Ion Ratio Lower Upper

95 100

174 90.9 0.0 180.8

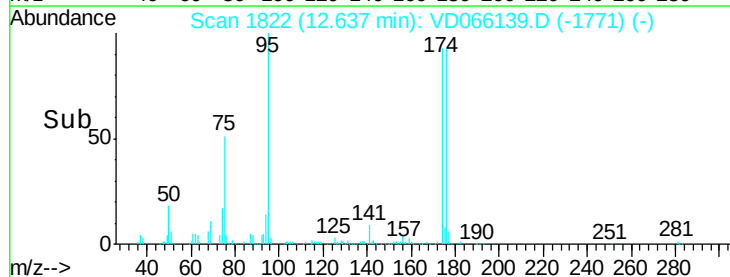
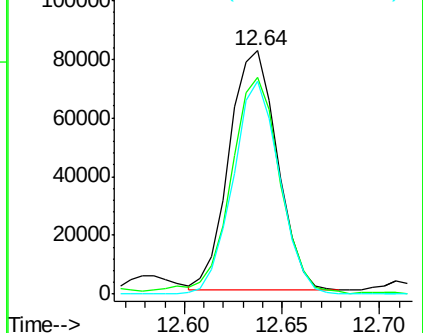
176 85.7 0.0 181.2

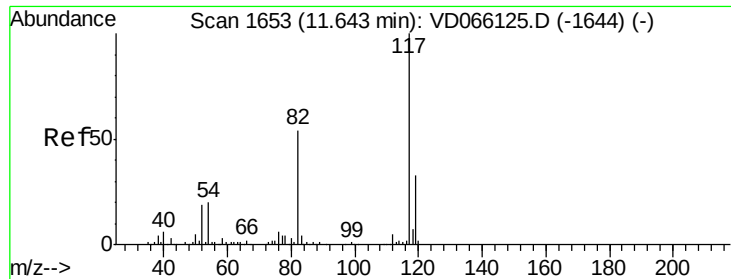


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





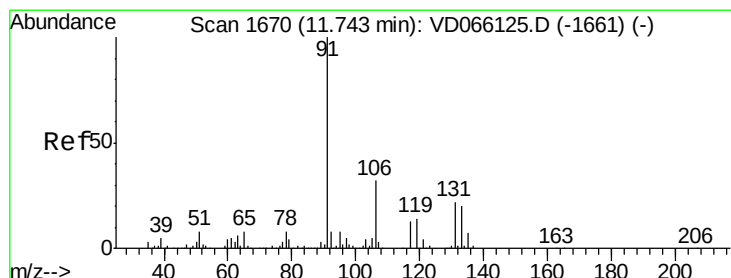
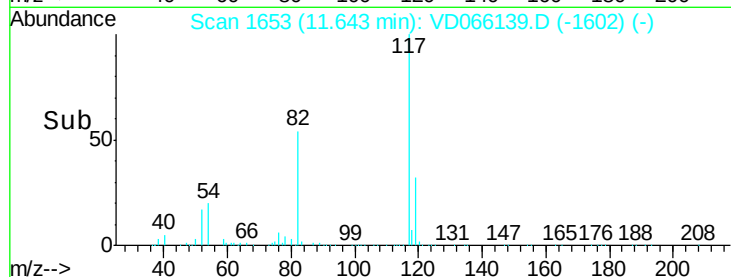
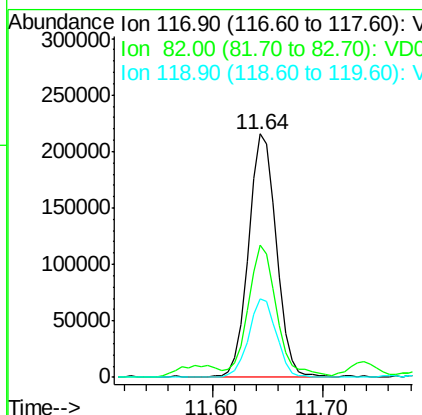
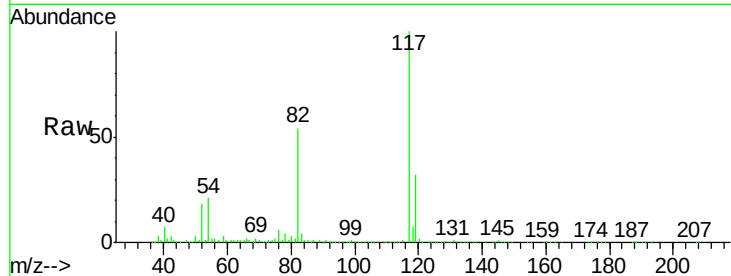
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066139.D
Acq: 06 Aug 2020 17:22

Instrument :
MSVOA_D
ClientSampleId :
NB-30860

Tot Ion	Ratio	Resp	Lower	Upper
117	100	380085		
82	52.7	43.0	64.4	
119	32.2	26.1	39.1	

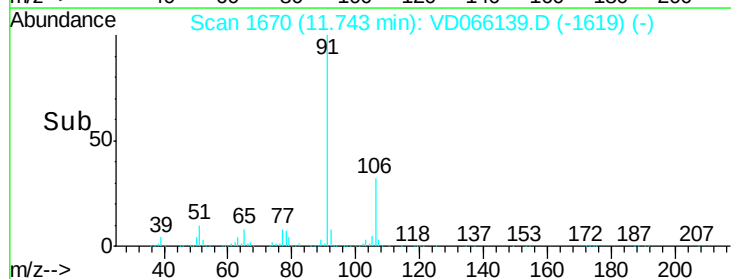
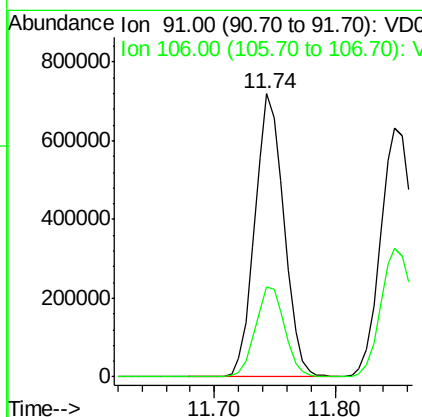
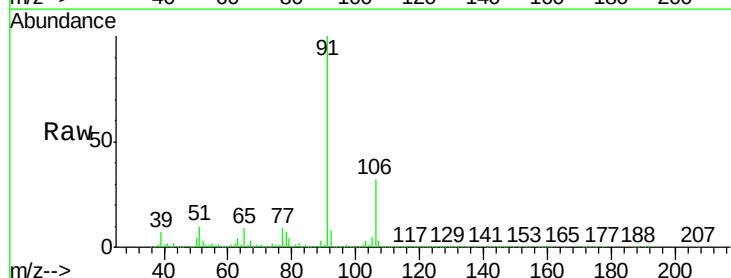
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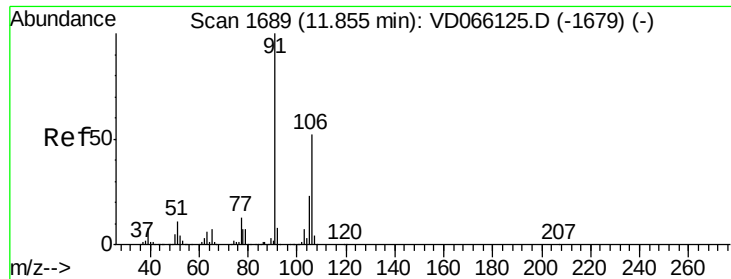
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#67
Ethyl Benzene
Concen: 89.831 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD066139.D
Acq: 06 Aug 2020 17:22

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	1201112		
106	31.9	25.7	38.5	





#68

m/p-Xylenes

Concen: 119.788 ug/l

RT: 11.85 min Scan# 1688

Delta R.T. -0.01 min

Lab File: VD066139.D

Acq: 06 Aug 2020 17:22

Instrument :

MSVOA_D

ClientSampled :

NB-30860

Tot Ion:106 Resp: 620552

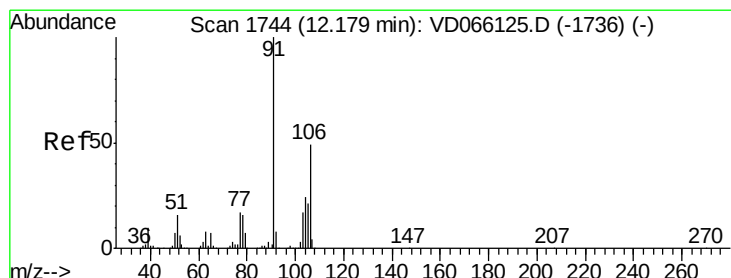
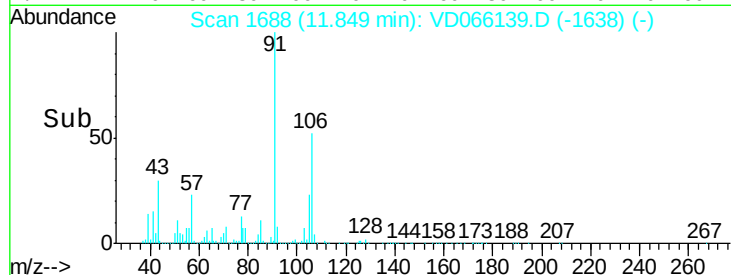
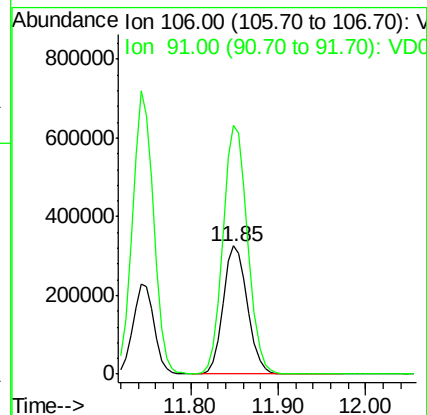
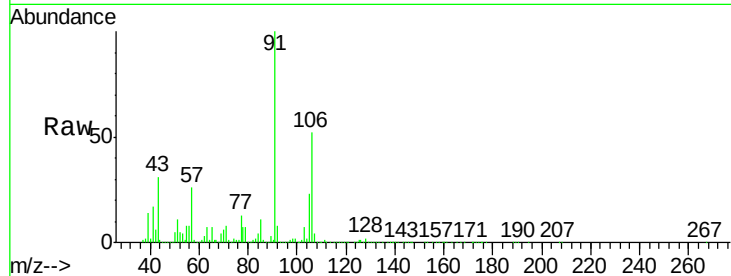
Ion Ratio Lower Upper

106 100

91 196.6 156.6 235.0

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#69

o-Xylene

Concen: 48.427 ug/l

RT: 12.18 min Scan# 1745

Delta R.T. 0.01 min

Lab File: VD066139.D

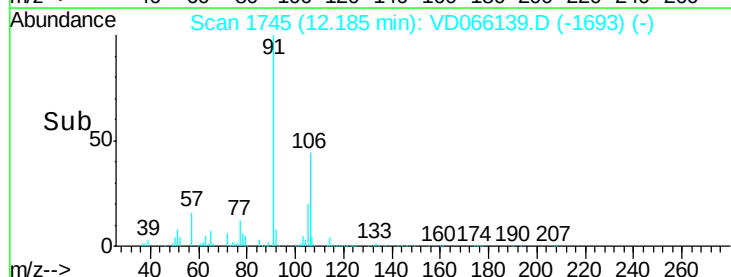
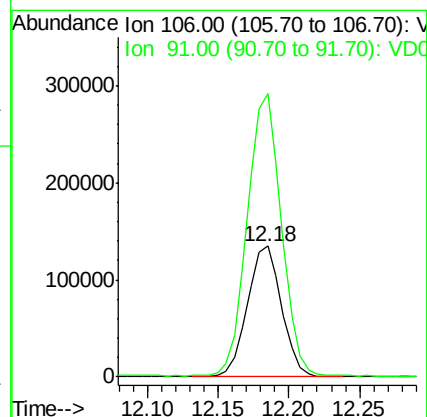
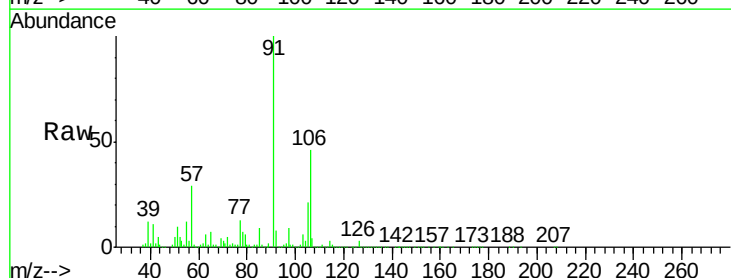
Acq: 06 Aug 2020 17:22

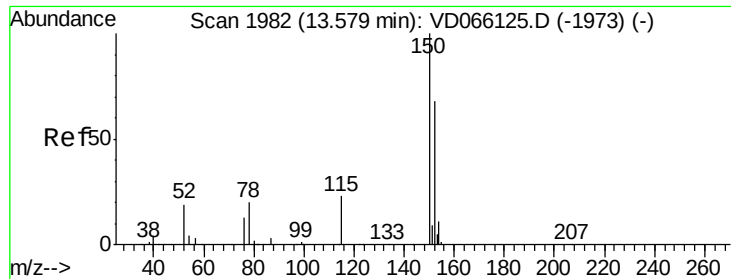
Tgt Ion:106 Resp: 228212

Ion Ratio Lower Upper

106 100

91 216.4 105.7 317.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066139.D

Acq: 06 Aug 2020 17:22

Instrument :

MSVOA_D

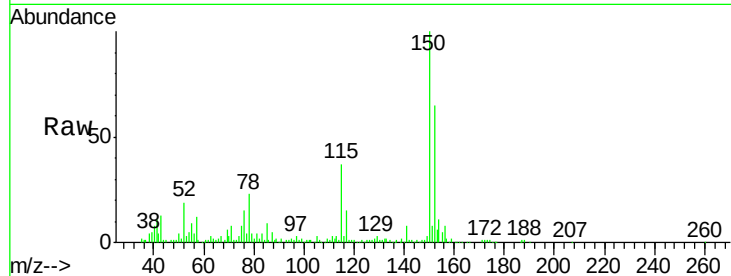
ClientSampled :

NB-30860

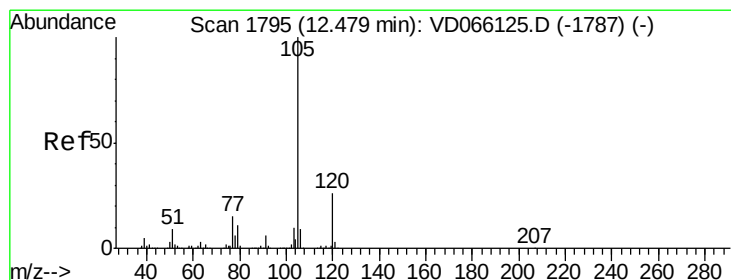
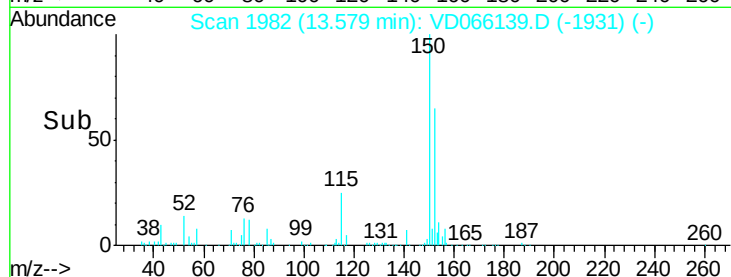
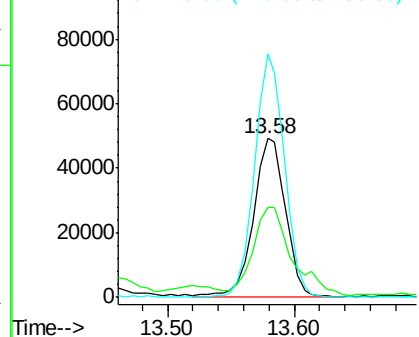
Tot Ion:	152	Resp:	86121
Ion Ratio	Lower	Upper	
152	100		
115	67.8	28.0	83.9
150	144.4	0.0	346.4

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Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 14.763 ug/l

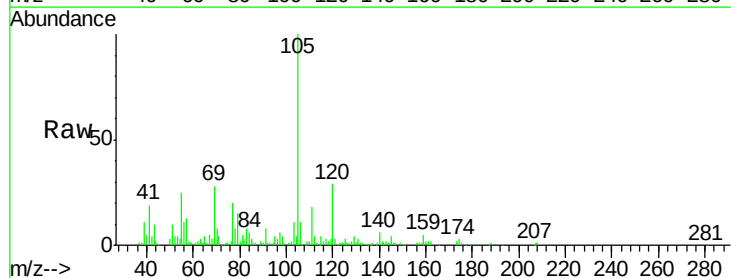
RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

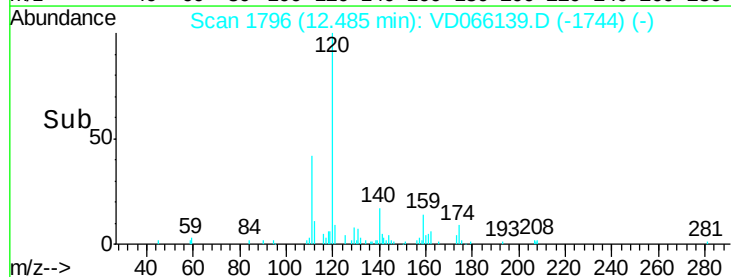
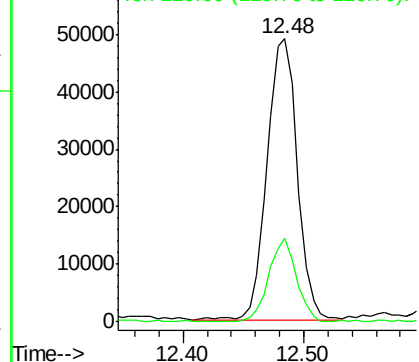
Lab File: VD066139.D

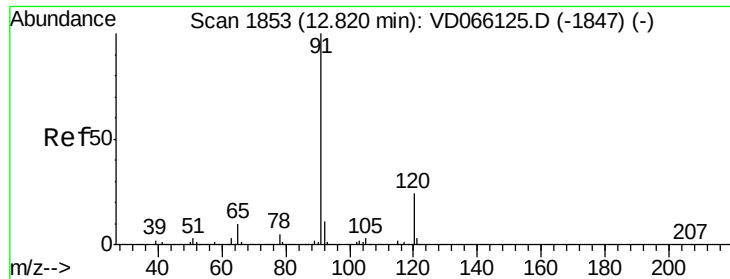
Acq: 06 Aug 2020 17:22

Tgt Ion:	105	Resp:	84868
Ion Ratio	Lower	Upper	
105	100		
120	27.2	13.3	39.9



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





#78

n-propylbenzene

Concen: 29.927 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.01 min

Lab File: VD066139.D

Acq: 06 Aug 2020 17:22

Instrument :

MSVOA_D

ClientSampled :

NB-30860

Tot Ion: 91 Resp: 199987

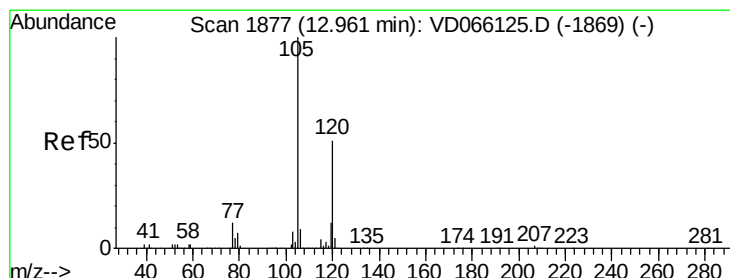
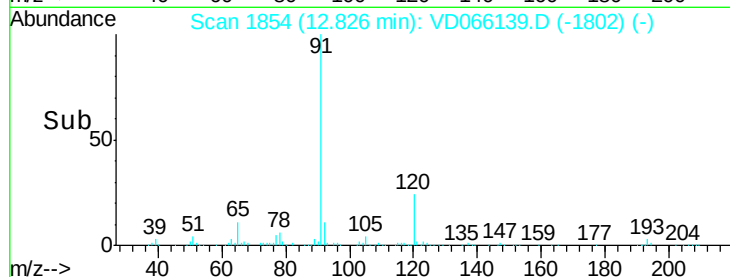
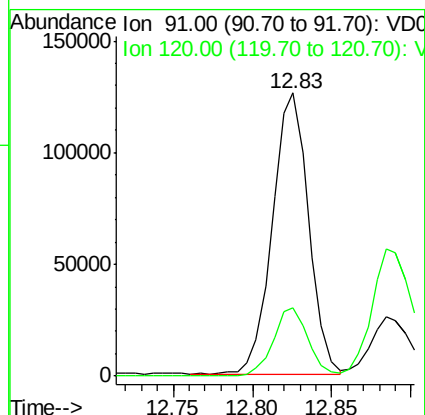
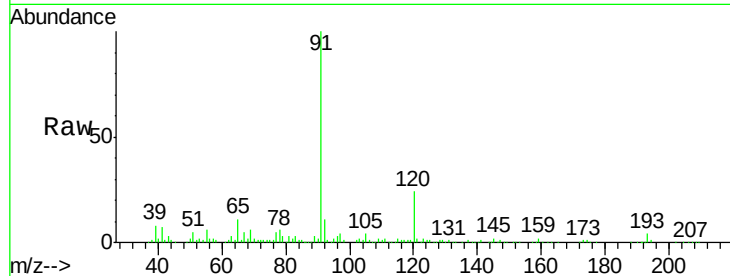
Ion Ratio Lower Upper

91 100

120 23.2 12.0 36.0

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#80

1,3,5-Trimethylbenzene

Concen: 17.277 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD066139.D

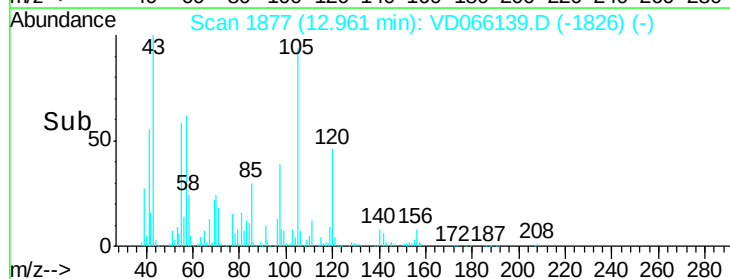
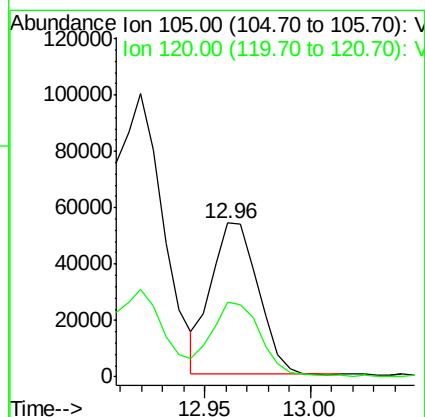
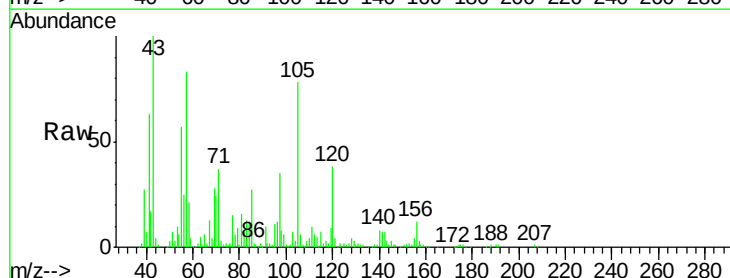
Acq: 06 Aug 2020 17:22

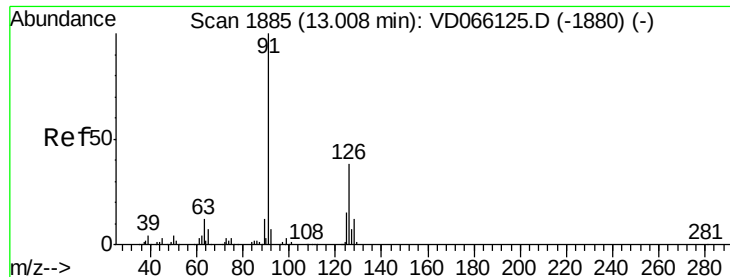
Tgt Ion: 105 Resp: 83063

Ion Ratio Lower Upper

105 100

120 50.4 25.3 75.8





#82

4-Chlorotoluene

Concen: 2.326 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.04 min

Lab File: VD066139.D

Acq: 06 Aug 2020 17:22

Instrument :

MSVOA_D

ClientSampleId :

NB-30860

Tot Ion: 91 Resp: 9383

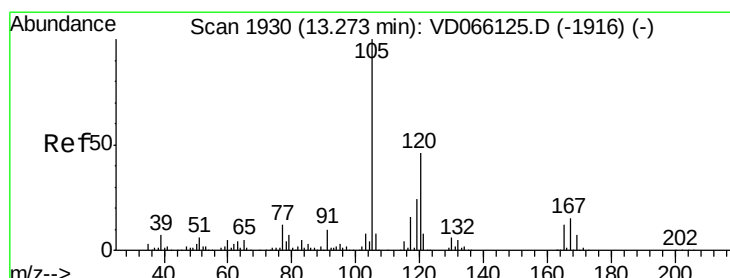
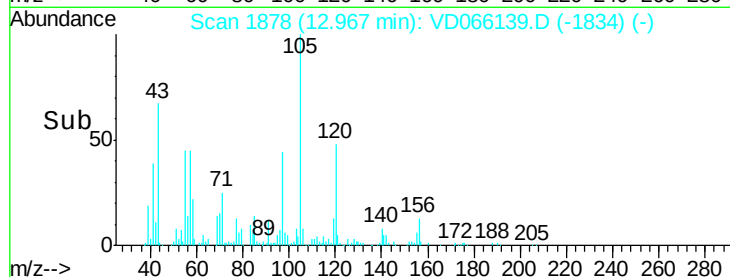
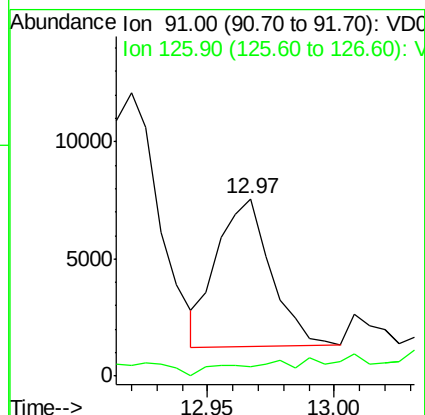
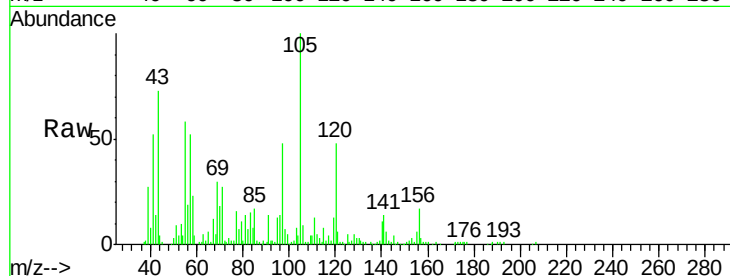
Ion Ratio Lower Upper

91 100

126 12.3 17.8 53.3#

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#84

1,2,4-Trimethylbenzene

Concen: 69.930 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD066139.D

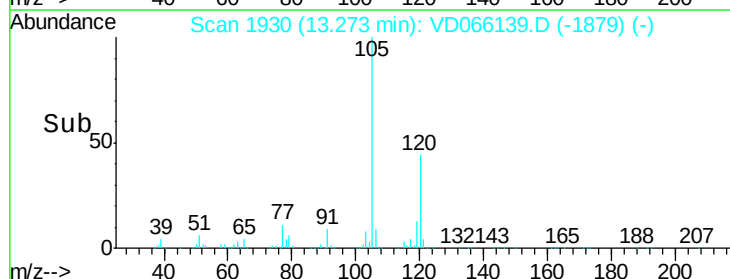
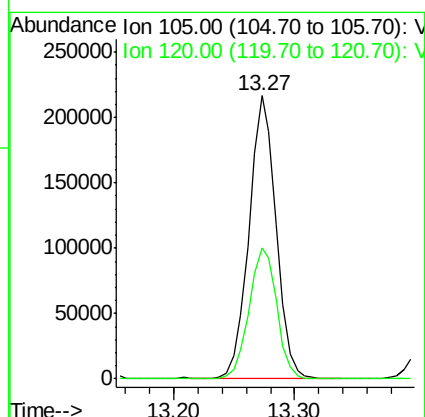
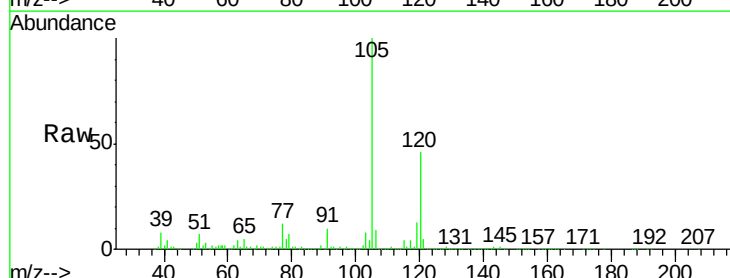
Acq: 06 Aug 2020 17:22

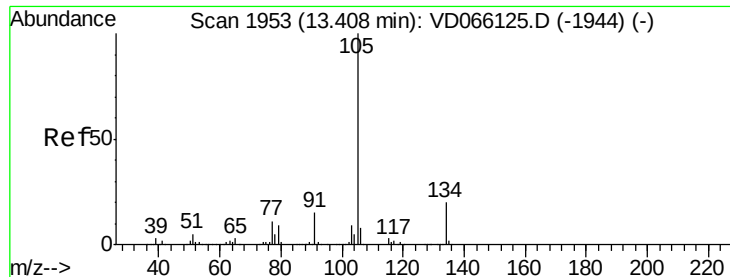
Tgt Ion: 105 Resp: 336464

Ion Ratio Lower Upper

105 100

120 47.5 23.1 69.2





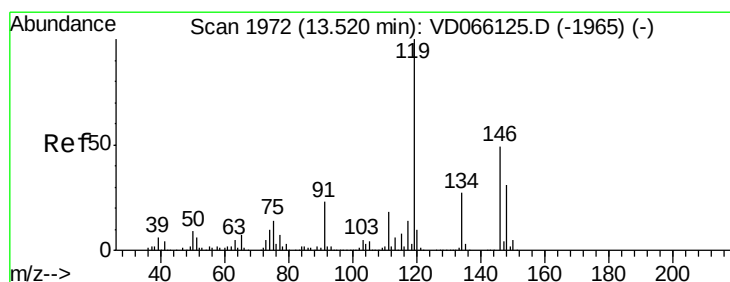
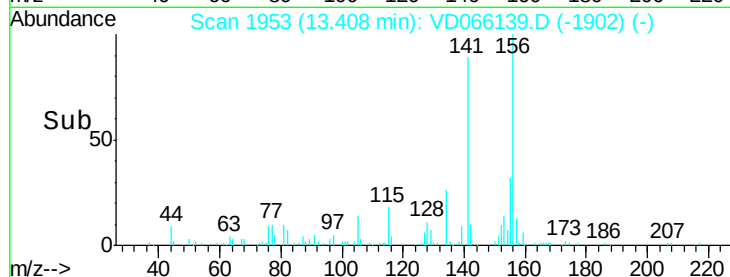
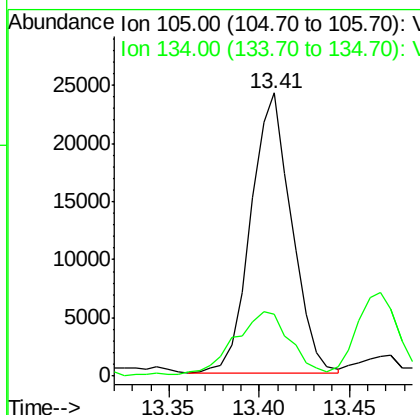
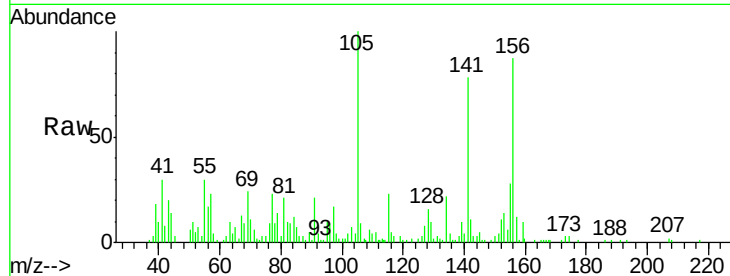
#85
 sec-Butylbenzene
 Concen: 6.629 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VD066139.D
 Acq: 06 Aug 2020 17:22

Instrument :
 MSVOA_D
 ClientSampled :
 NB-30860

Tot Ion:105 Resp: 37840
 Ion Ratio Lower Upper
 105 100
 134 32.8 10.4 31.4#

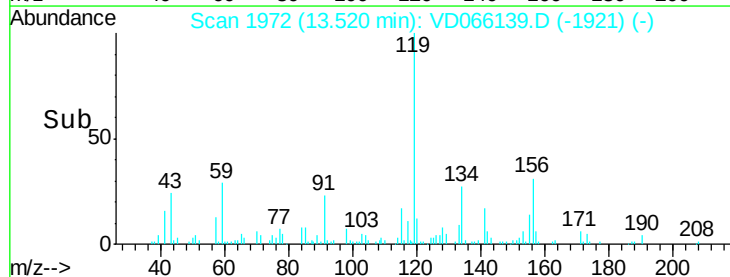
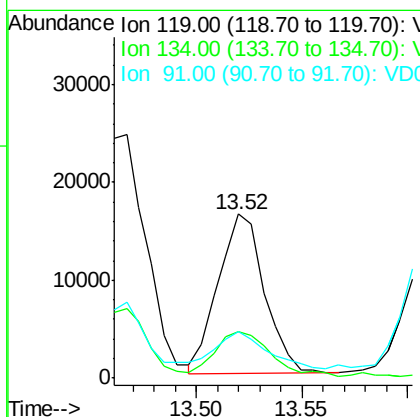
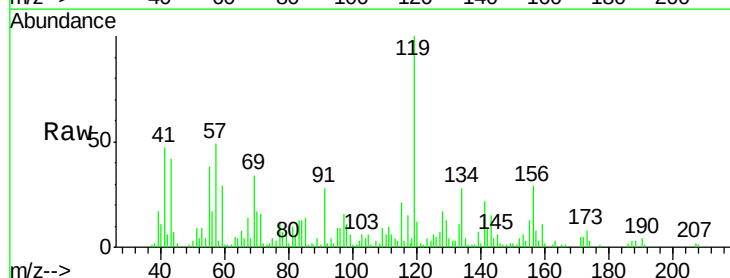
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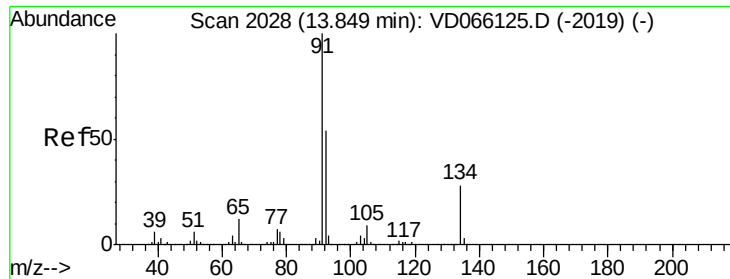
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#86
 p-Isopropyltoluene
 Concen: 4.602 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD066139.D
 Acq: 06 Aug 2020 17:22

Tgt Ion:119 Resp: 24641
 Ion Ratio Lower Upper
 119 100
 134 33.5 13.5 40.4
 91 26.8 11.2 33.5





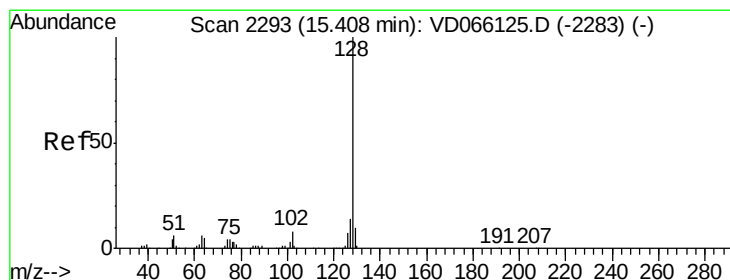
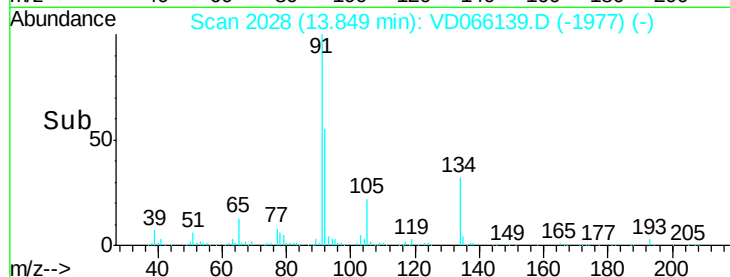
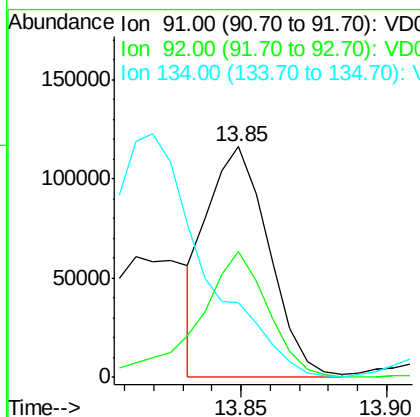
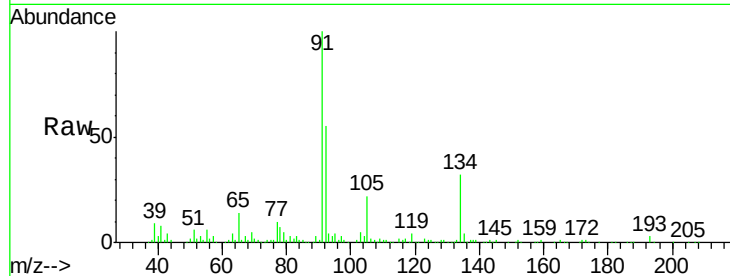
#89
n-Butylbenzene
Concen: 35.873 ug/l m
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD066139.D
Acq: 06 Aug 2020 17:22

Instrument :
MSVOA_D
ClientSampleId :
NB-30860

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.8	26.8	80.3
134	0.0	14.0	41.9#

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#95
Naphthalene
Concen: 592.850 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VD066139.D
Acq: 06 Aug 2020 17:22

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.4	11.0	16.4
129	11.1	8.8	13.2

