

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091219\
 Data File : VN057933.D
 Acq On : 11 Sep 2019 19:04
 Operator : JC/SP
 Sample : K4818-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-091019-01

Quant Time: Sep 12 02:30:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

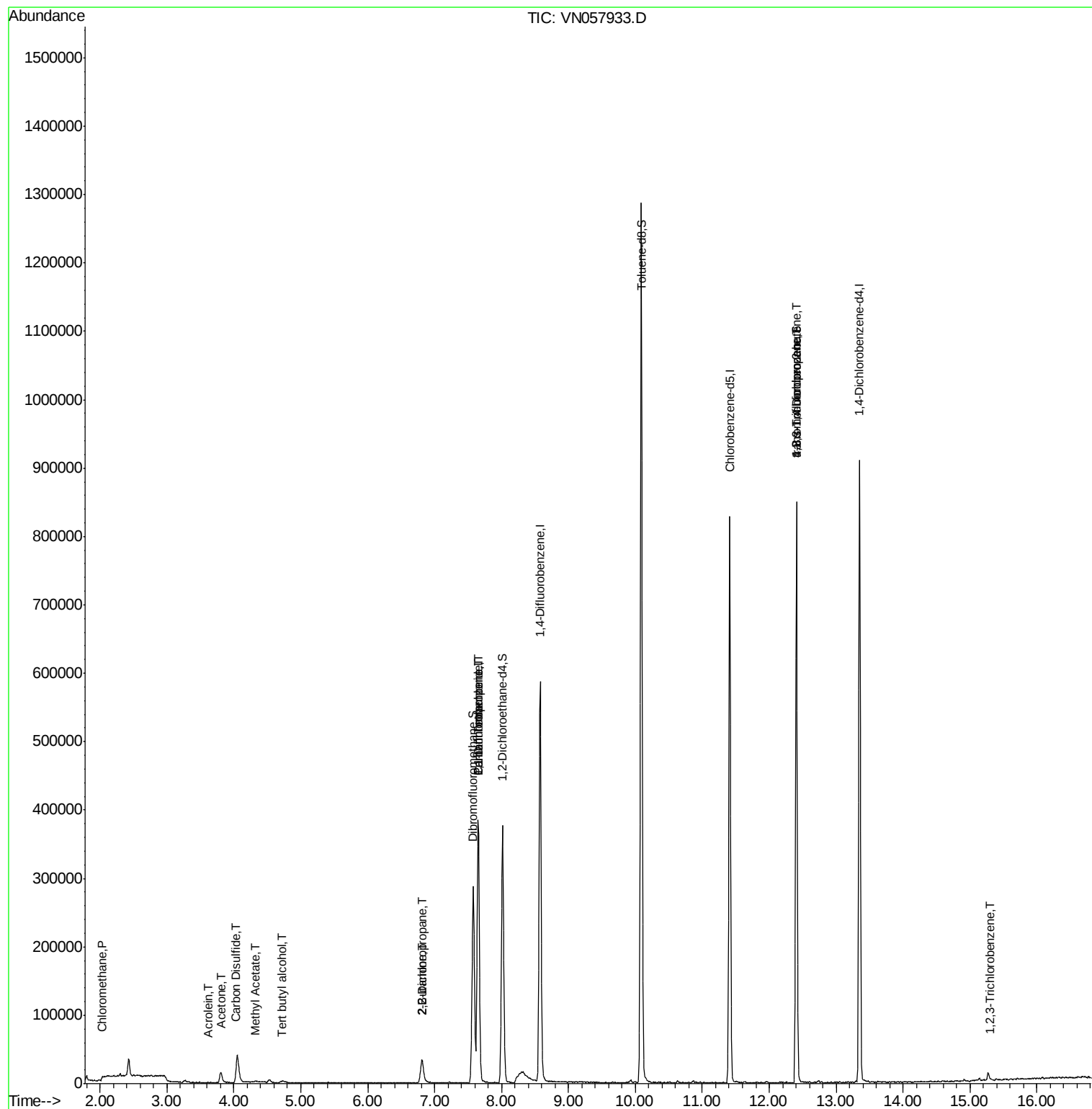
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	302524	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	499542	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	445954	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	231686	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	322917	52.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.40%	
35) Dibromofluoromethane	7.58	113	216107	46.87	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.74%	
50) Toluene-d8	10.09	98	886322	49.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.02%	
62) 4-Bromofluorobenzene	12.41	95	283012	41.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	82.98%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	1135	0.266	ug/l #	86
5) Bromomethane	2.55	94	413	Below Cal	#	63
11) Tert butyl alcohol	4.73	59	811	1.094	ug/l #	72
13) Acrolein	3.61	56	207	0.329	ug/l #	14
16) Acetone	3.80	43	24126	12.011	ug/l	93
17) Carbon Disulfide	4.02	76	330	0.224	ug/l #	75
18) Methyl Acetate	4.32	43	1779	0.332	ug/l #	76
20) Methylene Chloride	4.52	84	1776	Below Cal	#	61
25) 2-Butanone	6.82	43	2692	0.926	ug/l #	81
26) 2,2-Dichloropropane	6.81	77	2514	0.393	ug/l #	54
31) Cyclohexane	7.65	56	8088	Below Cal	#	2
36) 1,1-Dichloropropene	7.65	75	25859	4.464	ug/l #	50
38) Carbon Tetrachloride	7.65	117	30126	5.696	ug/l #	15
76) 1,2,3-Trichloropropane	12.41	75	158947	30.327	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	158947	106.721	ug/l #	6
95) Naphthalene	15.14	128	3609	Below Cal	#	88
96) 1,2,3-Trichlorobenzene	15.30	180	882	1.182	ug/l #	15

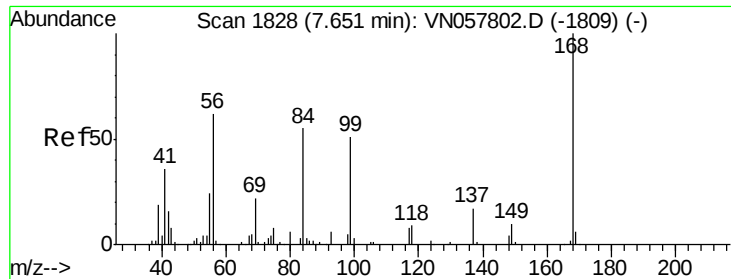
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057933.D

Acq: 11 Sep 2019 19:04

Instrument :

MSVOA_N

ClientSampled :

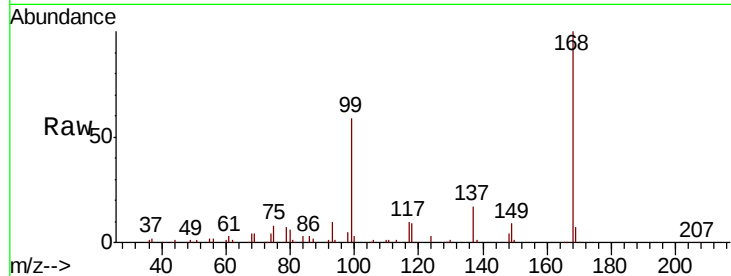
FB-091019-01

Tgt Ion:168 Resp: 302524

Ion Ratio Lower Upper

168 100

99 59.1 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

150000

100000

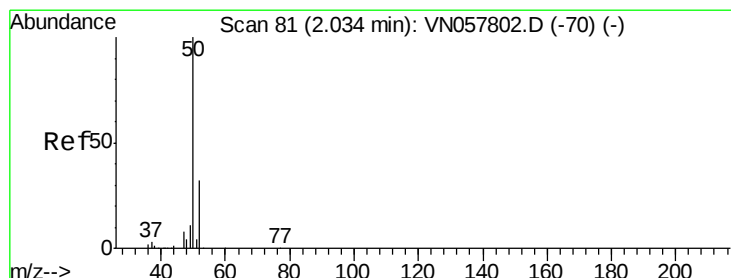
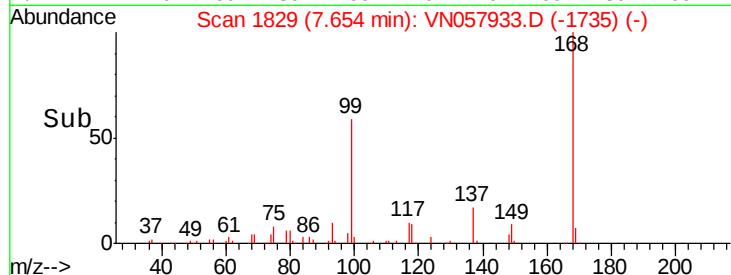
50000

0

Time-->

7.60

7.70



#3

Chloromethane

Concen: 0.266 ug/l

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN057933.D

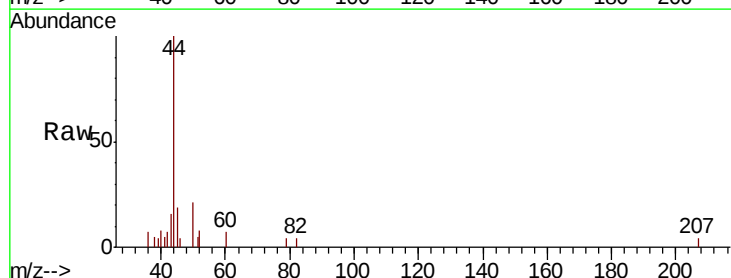
Acq: 11 Sep 2019 19:04

Tgt Ion: 50 Resp: 1135

Ion Ratio Lower Upper

50 100

52 39.9 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VN057802.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN057802.D (-70) (-)

2.03

1000

800

600

400

200

0

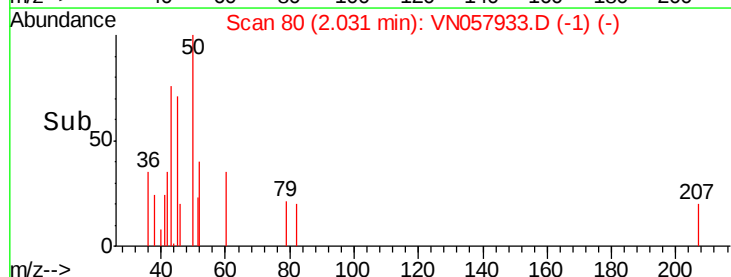
Time-->

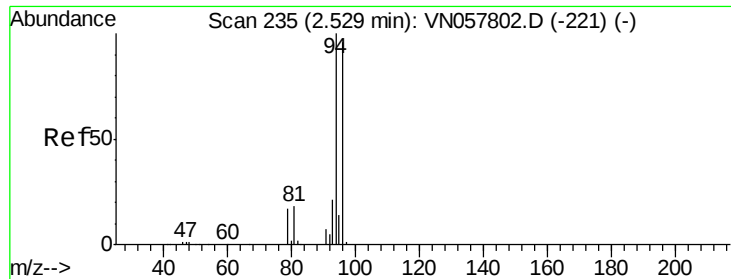
2.00

2.02

2.04

2.06





#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 240

Delta R.T. 0.02 min

Lab File: VN057933.D

Acq: 11 Sep 2019 19:04

Instrument :

MSVOA_N

ClientSampled :

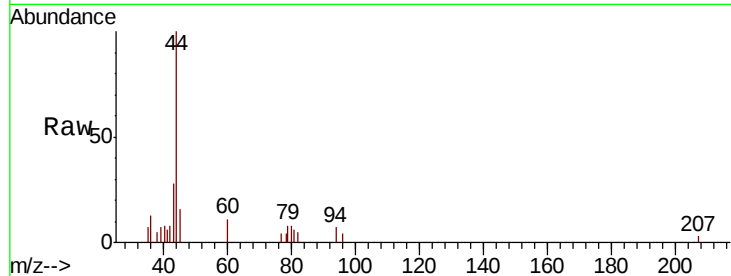
FB-091019-01

Tgt Ion: 94 Resp: 413

Ion Ratio Lower Upper

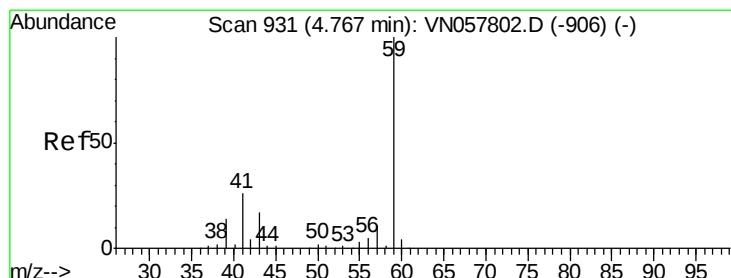
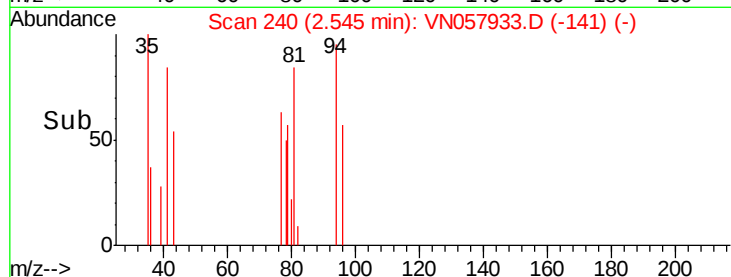
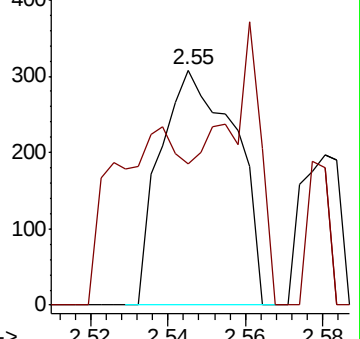
94 100

96 60.1 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 1.094 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.04 min

Lab File: VN057933.D

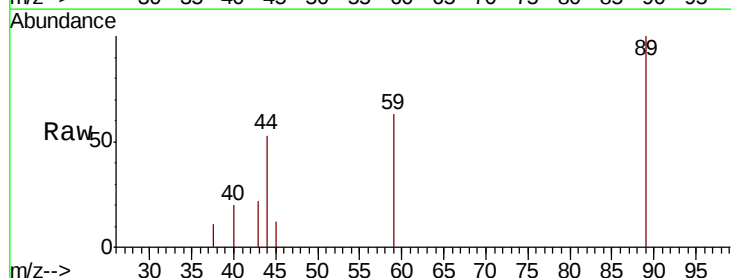
Acq: 11 Sep 2019 19:04

Tgt Ion: 59 Resp: 811

Ion Ratio Lower Upper

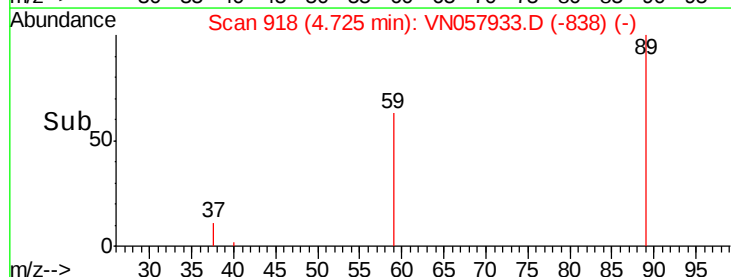
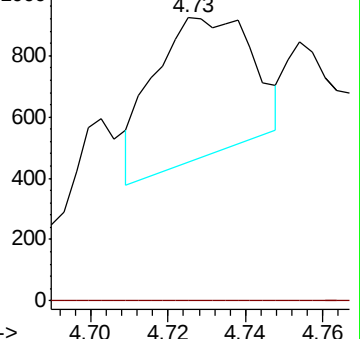
59 100

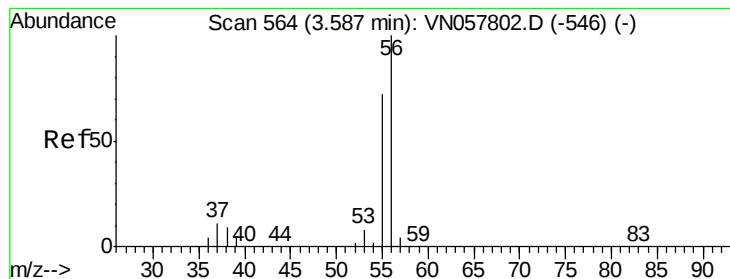
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 0.329 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.02 min

Lab File: VN057933.D

Acq: 11 Sep 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

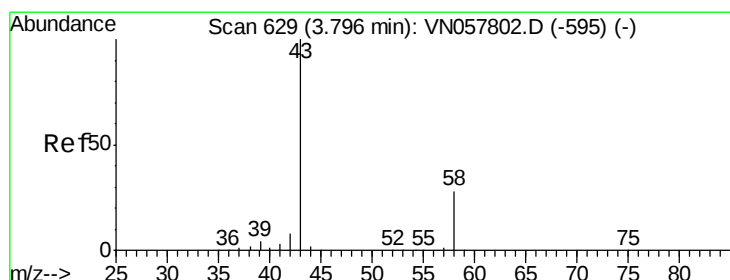
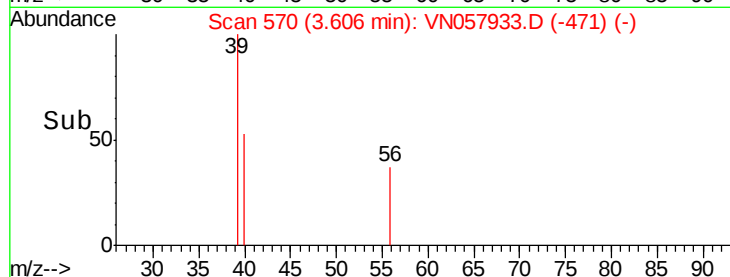
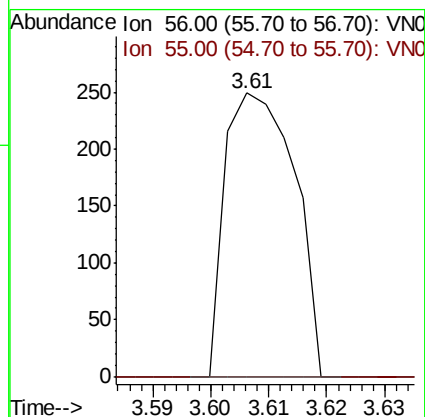
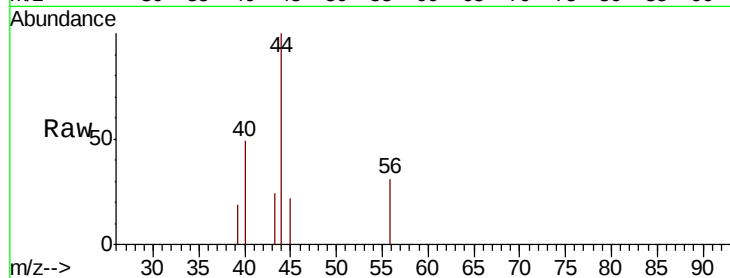
FB-091019-01

Tgt Ion: 56 Resp: 207

Ion Ratio Lower Upper

56 100

55 0.0 57.3 85.9#



#16

Acetone

Concen: 12.011 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057933.D

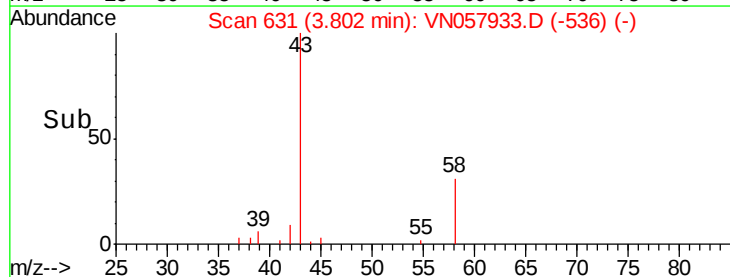
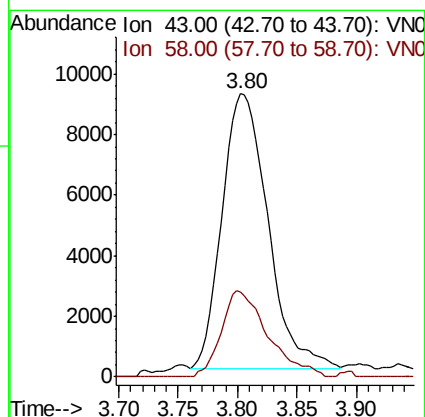
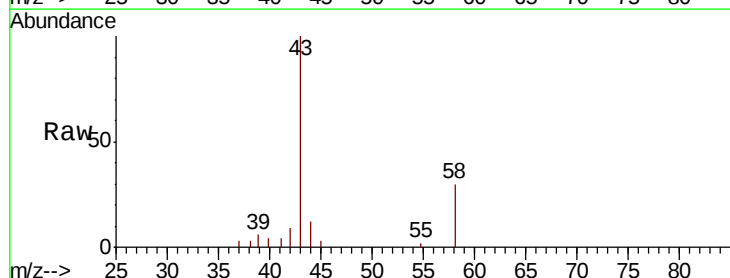
Acq: 11 Sep 2019 19:04

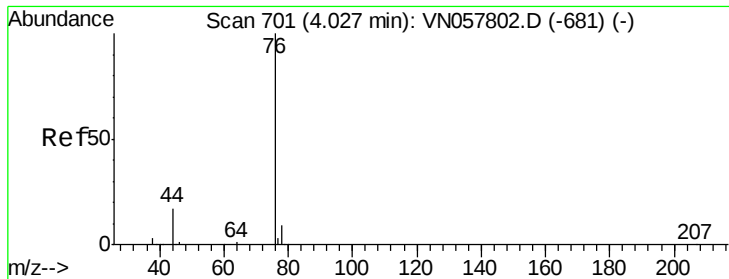
Tgt Ion: 43 Resp: 24126

Ion Ratio Lower Upper

43 100

58 31.1 22.2 33.2

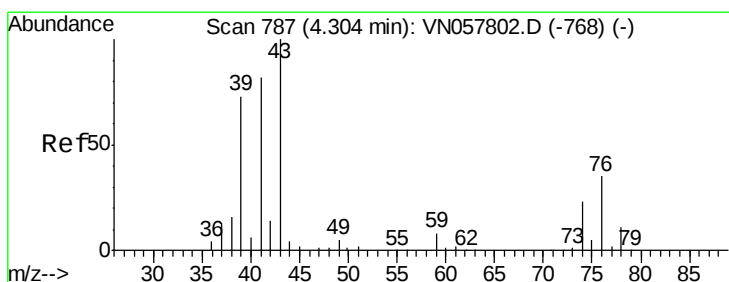
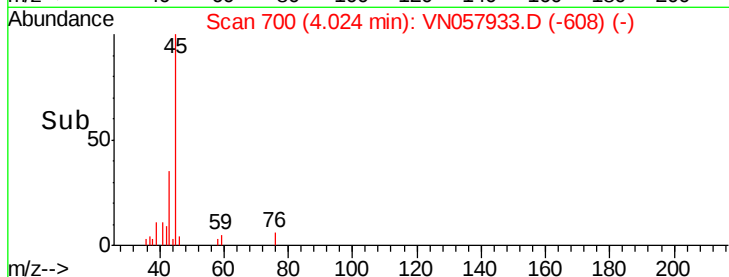
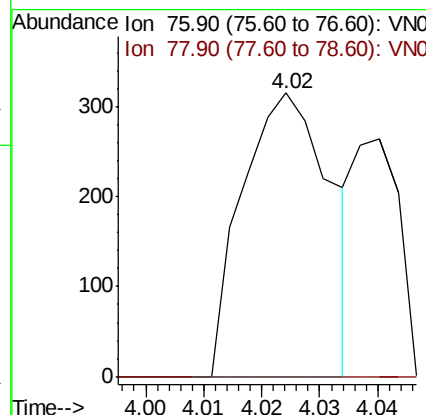
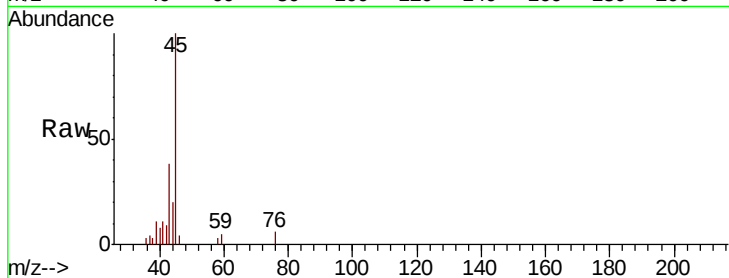




#17
Carbon Disulfide
Concen: 0.224 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.00 min
Lab File: VN057933.D
Acq: 11 Sep 2019 19:04

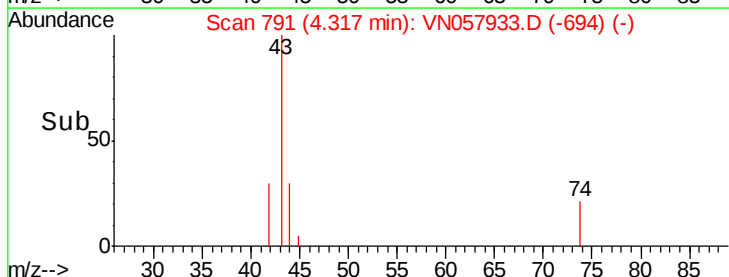
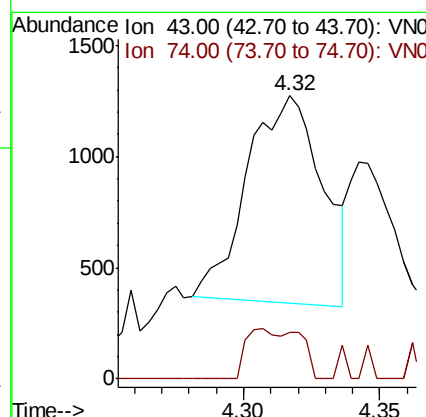
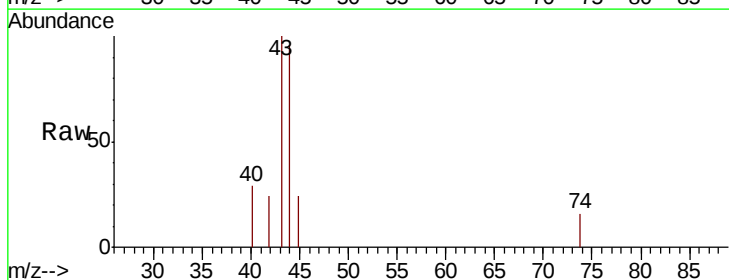
Instrument :
MSVOA_N
ClientSampleId :
FB-091019-01

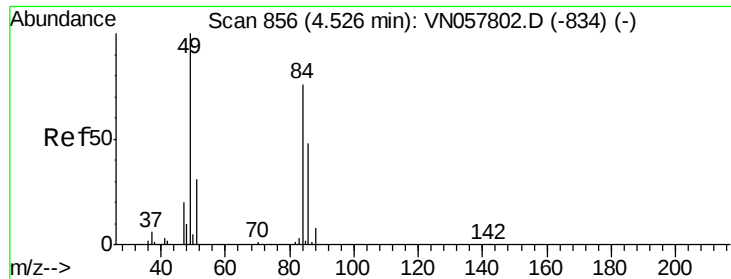
Tgt Ion: 76 Resp: 330
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 0.332 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN057933.D
Acq: 11 Sep 2019 19:04

Tgt Ion: 43 Resp: 1779
Ion Ratio Lower Upper
43 100
74 11.0 17.9 26.9#

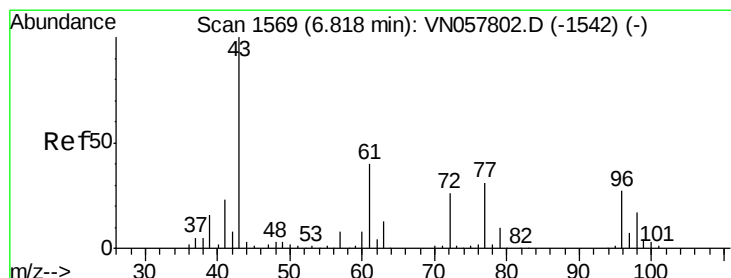
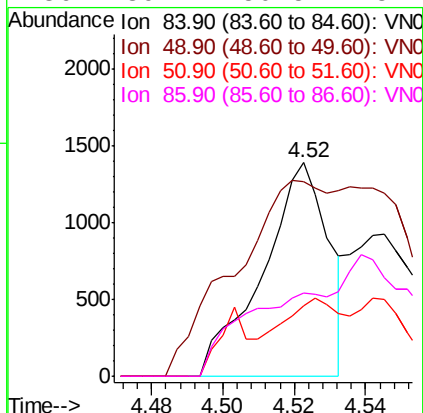
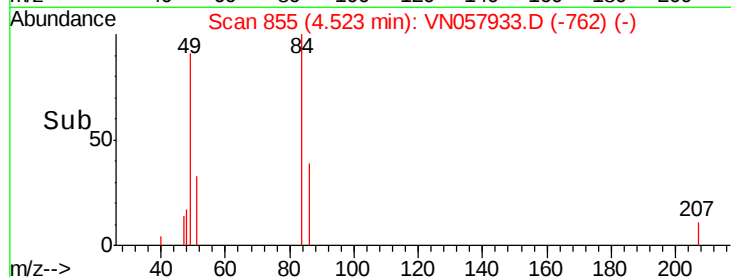
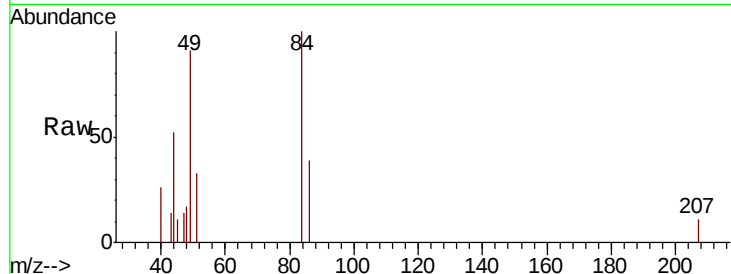




#20
Methylene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN057933.D
Acq: 11 Sep 2019 19:04

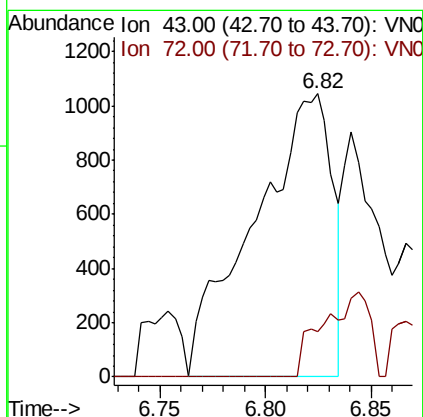
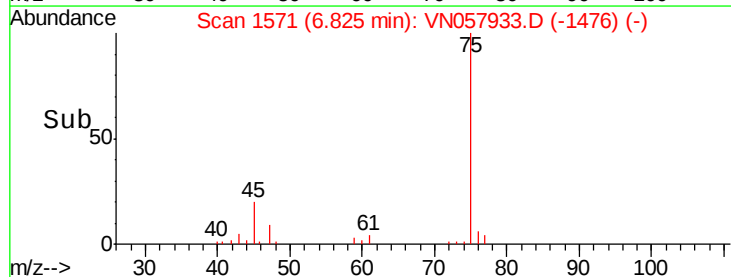
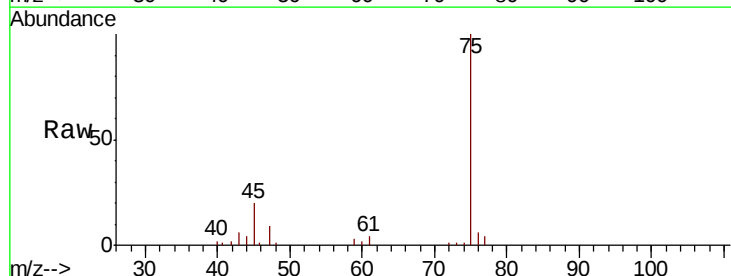
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FB-091019-01

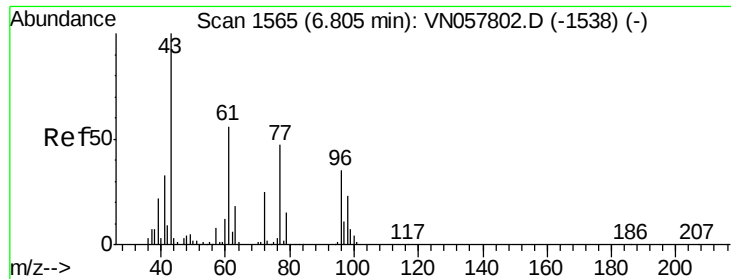
Tgt Ion: 84 Resp: 1776
Ion Ratio Lower Upper
84 100
49 72.1 104.8 157.2#
51 33.1 33.0 49.4
86 39.2 50.5 75.7#



#25
2-Butanone
Concen: 0.926 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN057933.D
Acq: 11 Sep 2019 19:04

Tgt Ion: 43 Resp: 2692
Ion Ratio Lower Upper
43 100
72 16.2 20.6 30.8#

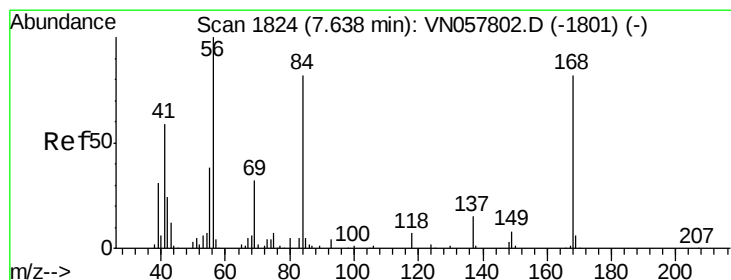
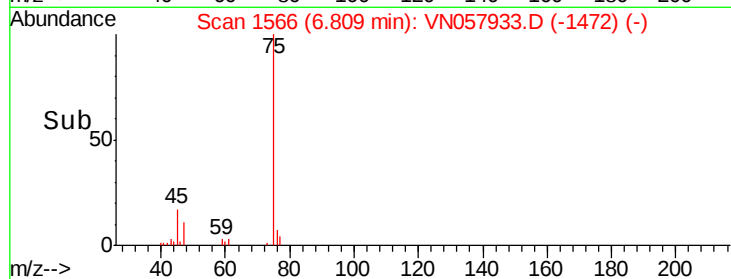
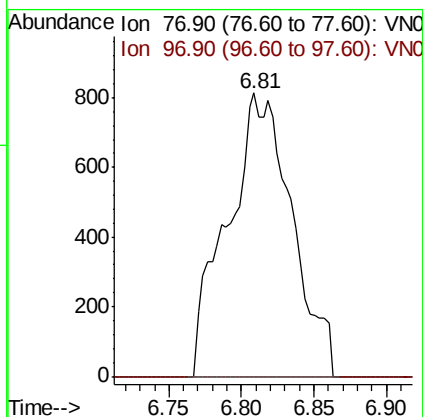
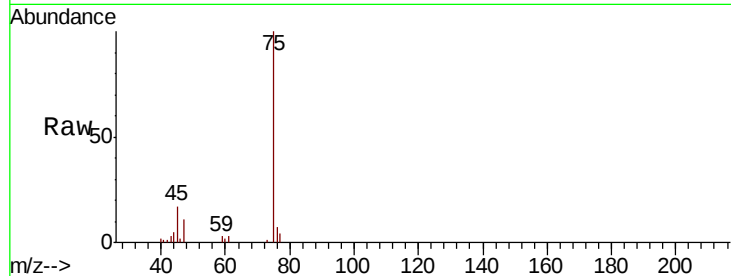




#26
 2,2-Dichloropropane
 Concen: 0.393 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VN057933.D
 Acq: 11 Sep 2019 19:04

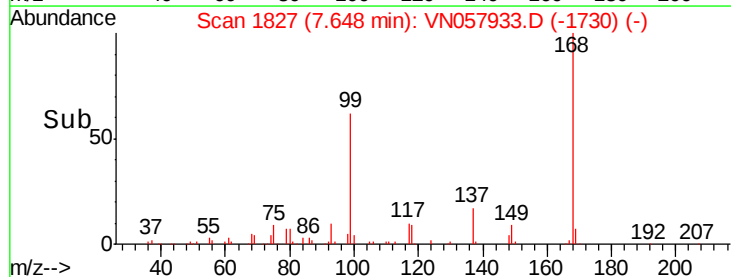
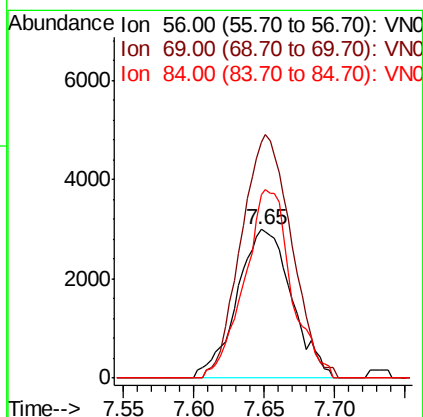
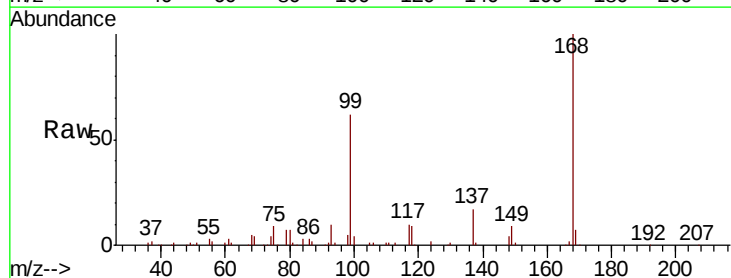
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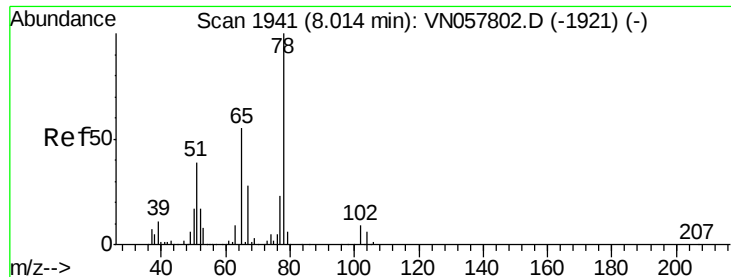
Tgt Ion: 77 Resp: 2514
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.1 33.3#



#31
 Cyclohexane
 Concen: Below Cal
 RT: 7.65 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VN057933.D
 Acq: 11 Sep 2019 19:04

Tgt Ion: 56 Resp: 8088
 Ion Ratio Lower Upper
 56 100
 69 159.2 25.9 38.9#
 84 123.9 65.6 98.4#

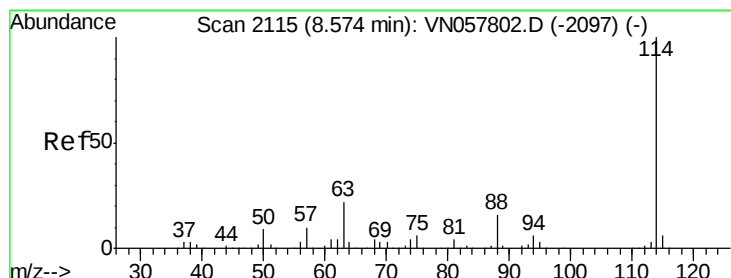
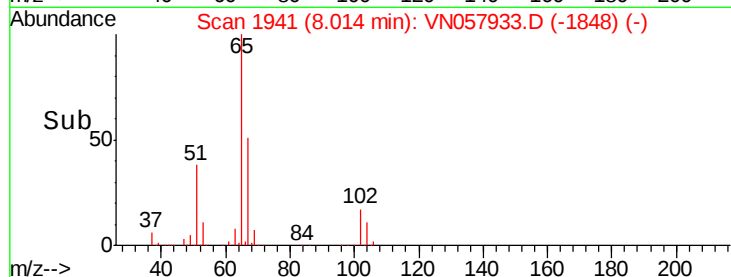
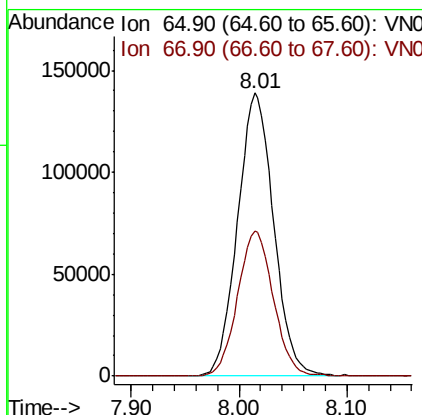
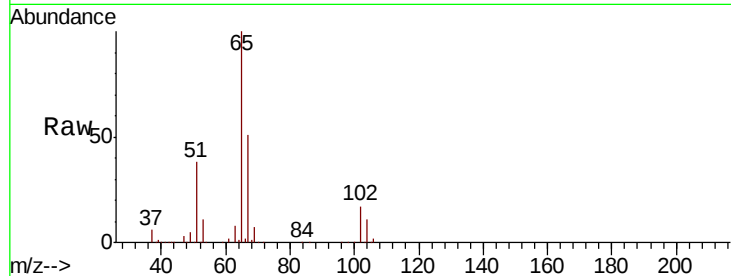




#33
 1,2-Dichloroethane-d4
 Concen: 52.701 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057933.D
 Acq: 11 Sep 2019 19:04

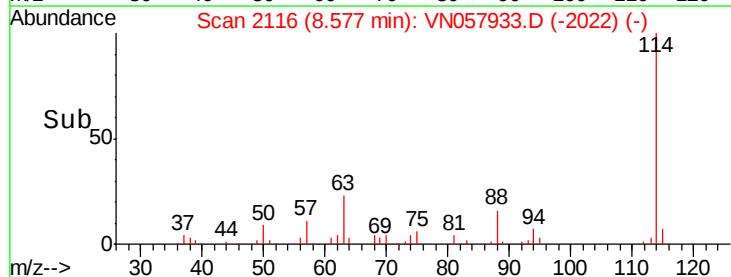
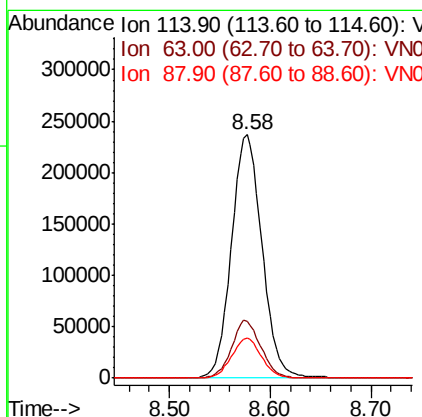
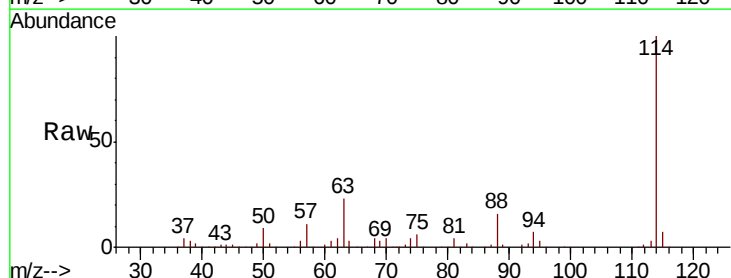
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 FB-091019-01

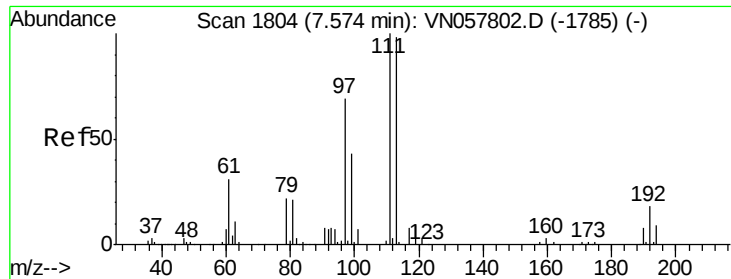
Tgt Ion: 65 Resp: 322917
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057933.D
 Acq: 11 Sep 2019 19:04

Tgt Ion: 114 Resp: 499542
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 44.0
 88 16.3 0.0 31.4

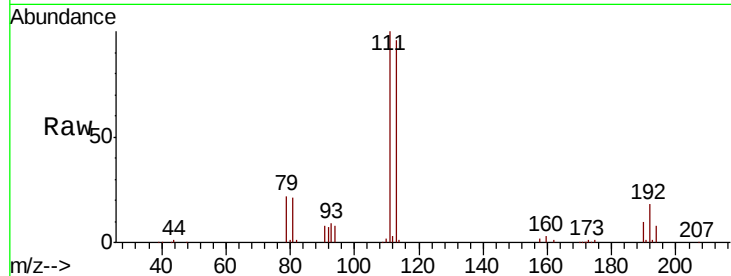




#35
 Dibromofluoromethane
 Concen: 46.872 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057933.D
 Acq: 11 Sep 2019 19:04

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-091019-01

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.3	121.9
192	18.1	14.6	22.0

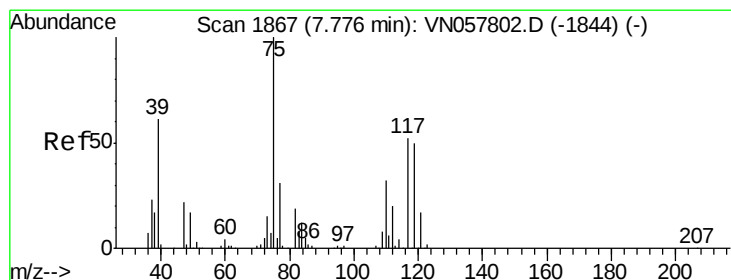
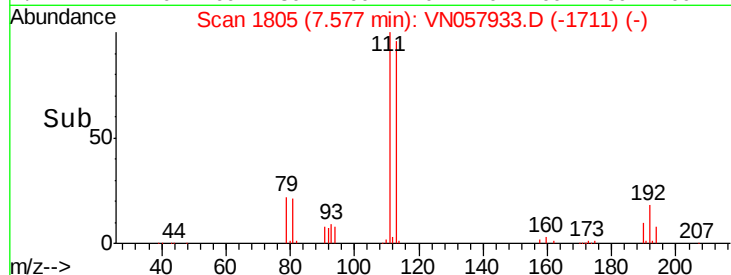
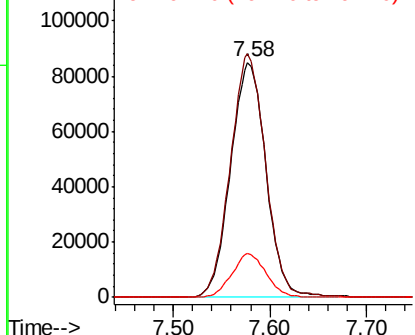


Abundance

Ion 112.80 (112.50 to 113.50): V

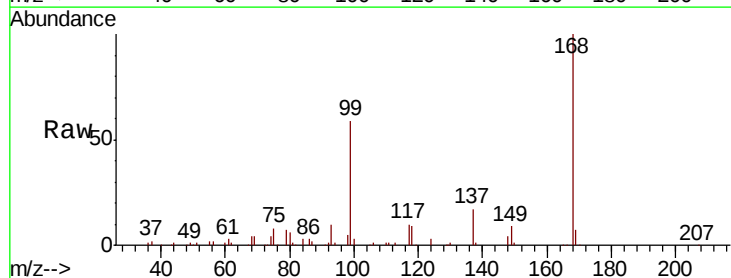
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.464 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057933.D
 Acq: 11 Sep 2019 19:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.5	16.3	48.9#
77	0.0	25.0	37.4#

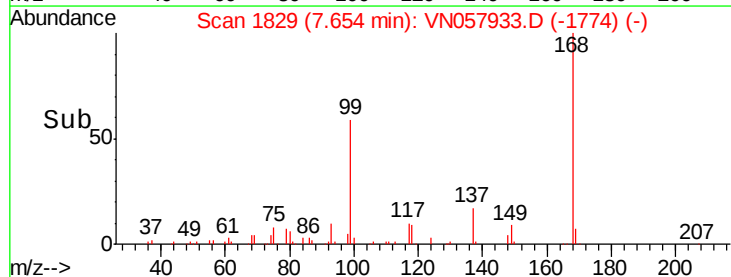
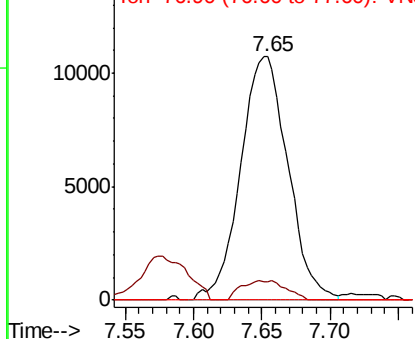


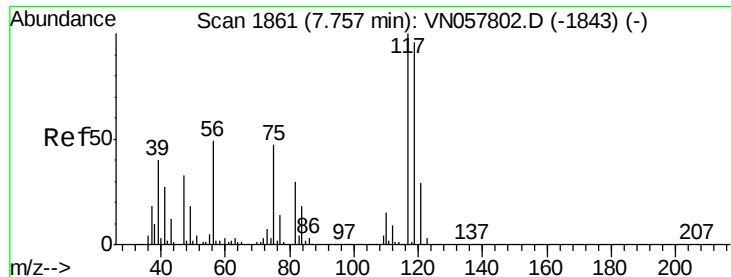
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.696 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057933.D

Acq: 11 Sep 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

FB-091019-01

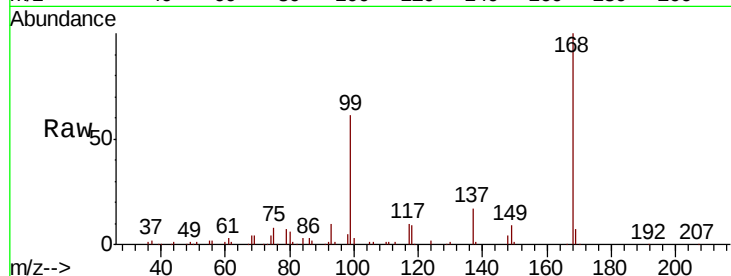
Tgt Ion:117 Resp: 30126

Ion Ratio Lower Upper

117 100

119 3.7 76.9 115.3#

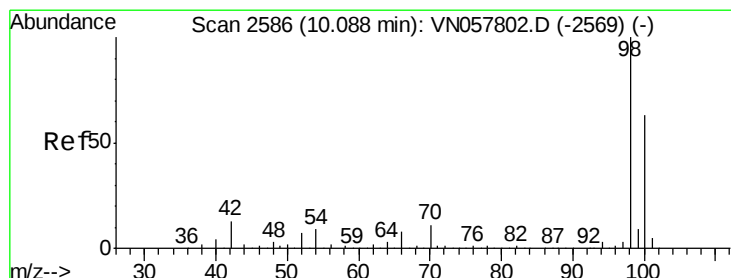
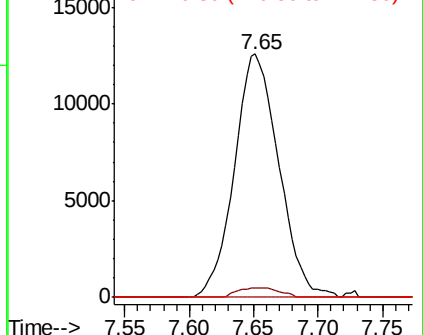
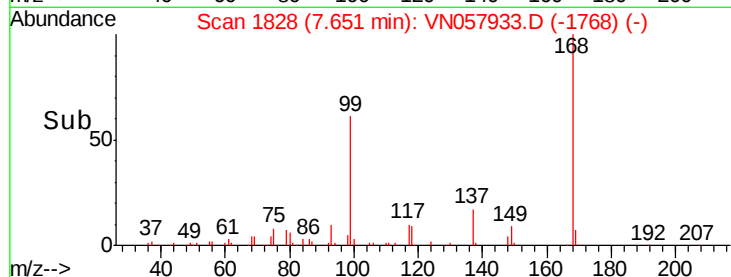
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 49.513 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057933.D

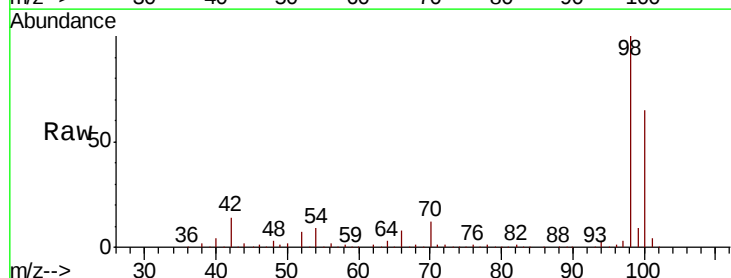
Acq: 11 Sep 2019 19:04

Tgt Ion: 98 Resp: 886322

Ion Ratio Lower Upper

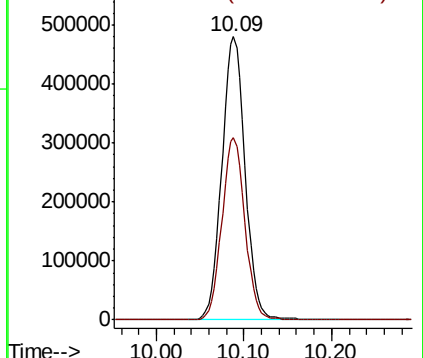
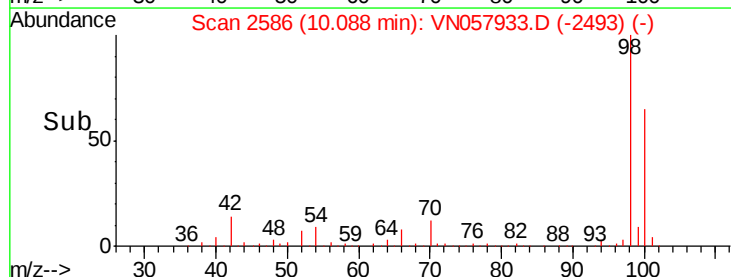
98 100

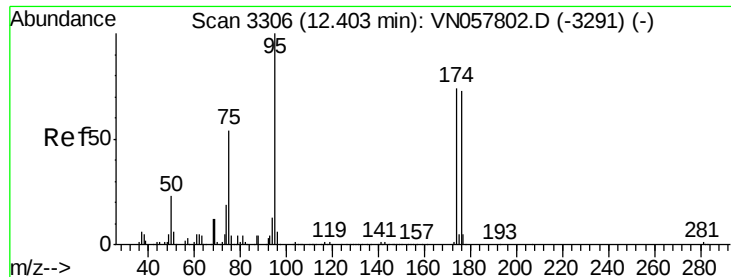
100 63.7 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 41.487 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN057933.D

Acq: 11 Sep 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

FB-091019-01

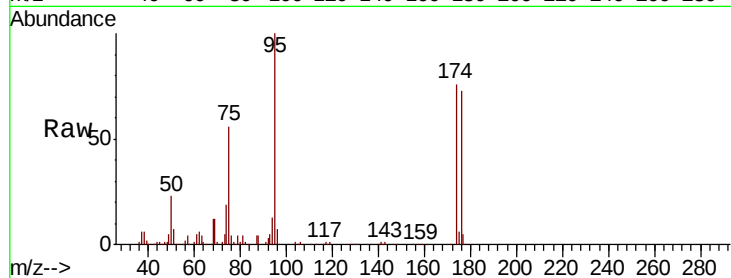
Tgt Ion: 95 Resp: 283012

Ion Ratio Lower Upper

95 100

174 74.9 0.0 150.2

176 72.4 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

12.41

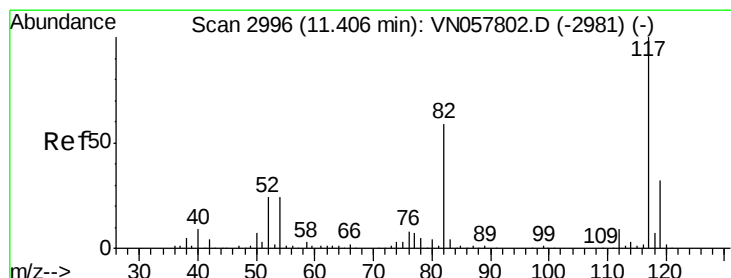
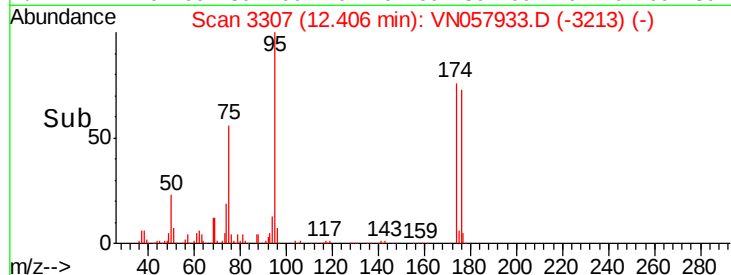
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN057933.D

Acq: 11 Sep 2019 19:04

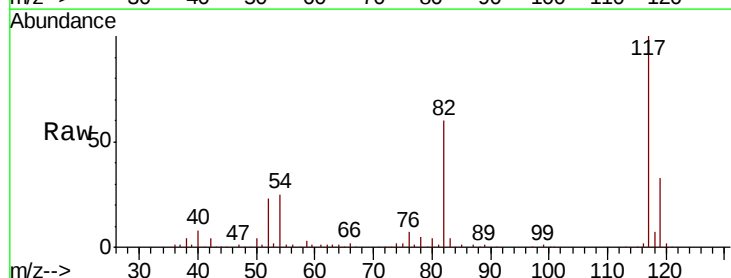
Tgt Ion: 117 Resp: 445954

Ion Ratio Lower Upper

117 100

82 60.2 47.2 70.8

119 32.7 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

11.41

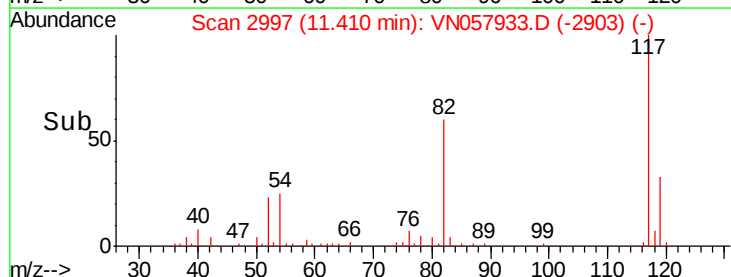
300000

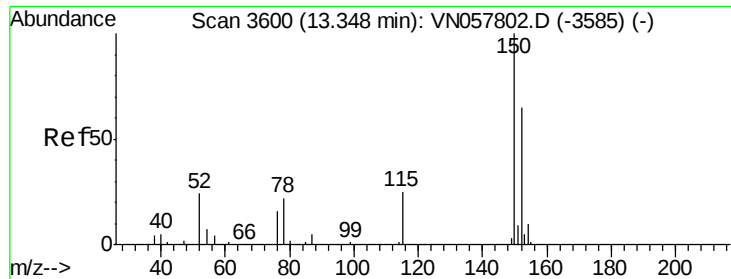
200000

100000

0

Time--> 11.40 11.50





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057933.D

Acq: 11 Sep 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

FB-091019-01

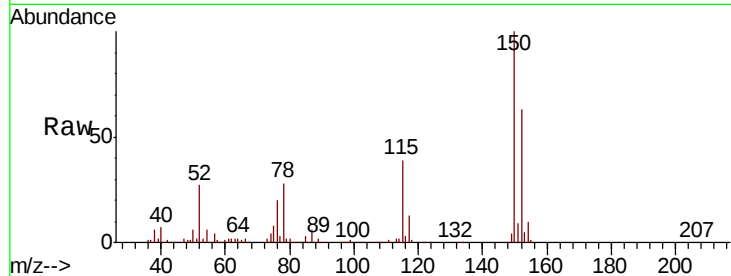
Tgt Ion:152 Resp: 231686

Ion Ratio Lower Upper

152 100

115 60.8 30.3 91.0

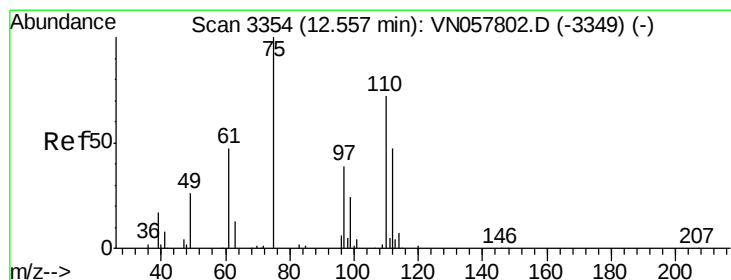
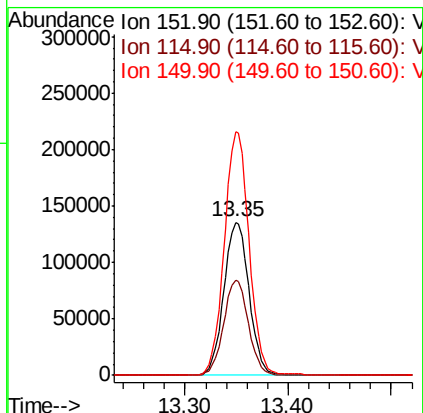
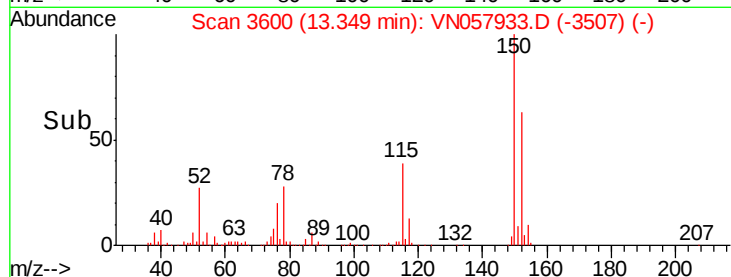
150 155.7 0.0 352.4



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



#76

1,2,3-Trichloropropane

Concen: 30.327 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057933.D

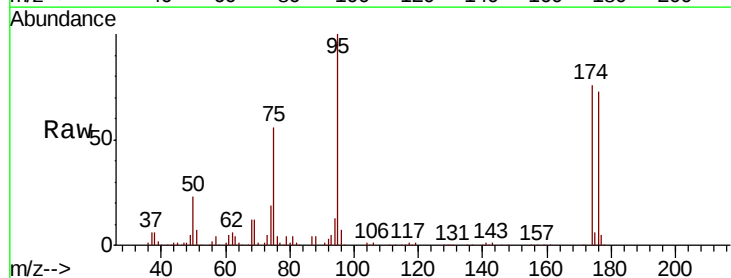
Acq: 11 Sep 2019 19:04

Tgt Ion: 75 Resp: 158947

Ion Ratio Lower Upper

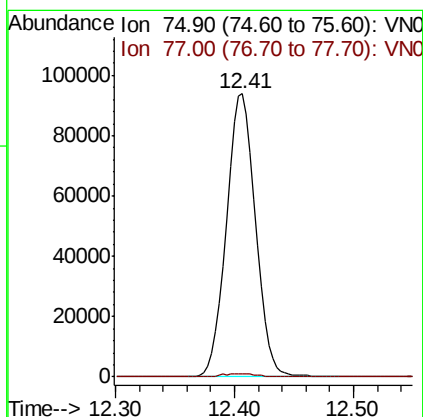
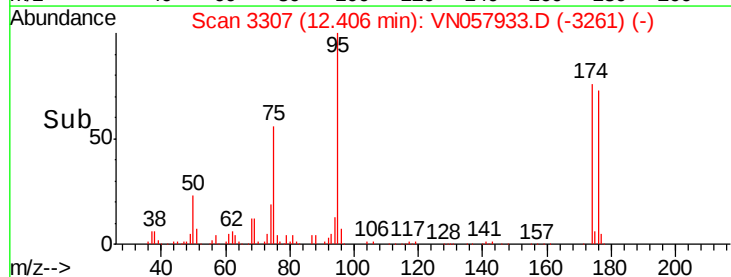
75 100

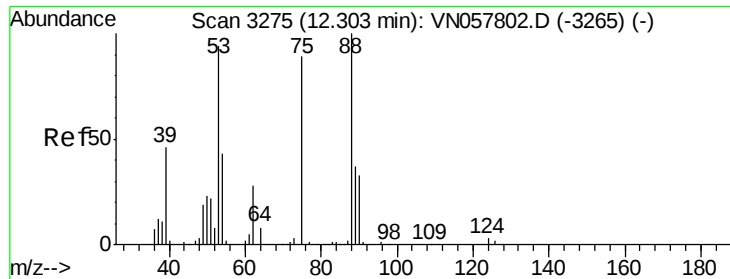
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 106.721 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN057933.D

Acq: 11 Sep 2019 19:04

Instrument :

MSVOA_N

ClientSampled :

FB-091019-01

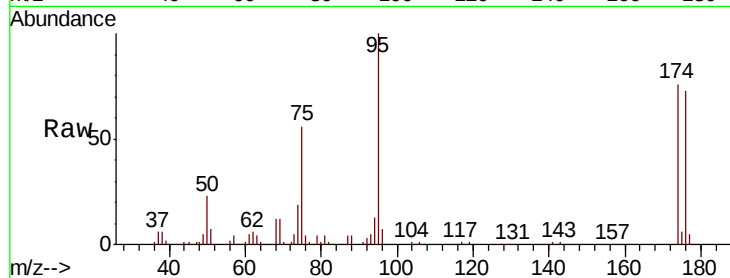
Tgt Ion: 75 Resp: 158947

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

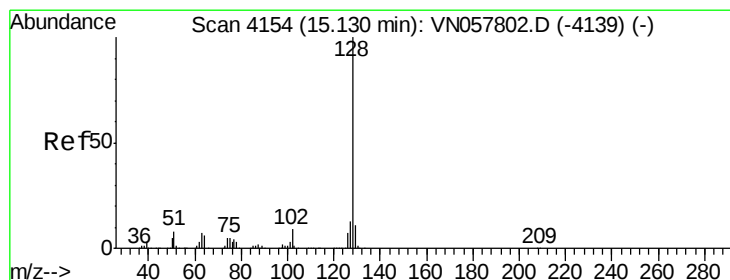
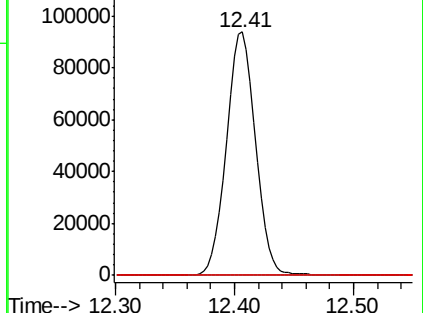
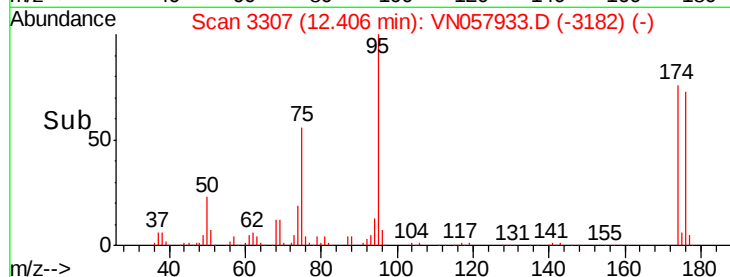
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN057933.D

Acq: 11 Sep 2019 19:04

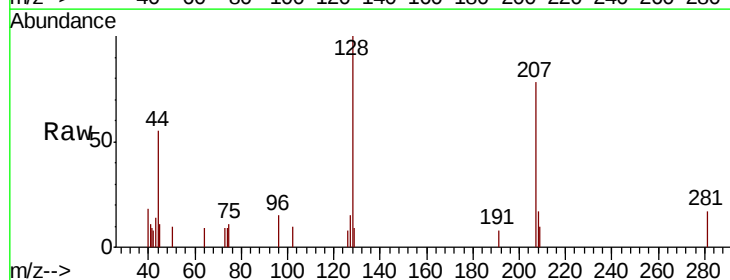
Tgt Ion: 128 Resp: 3609

Ion Ratio Lower Upper

128 100

127 7.7 10.3 15.5#

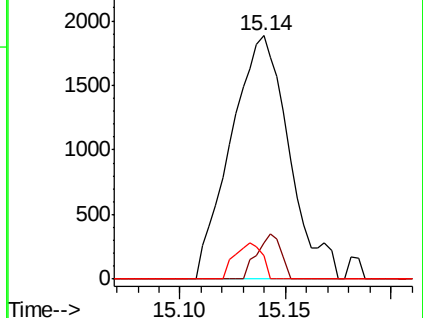
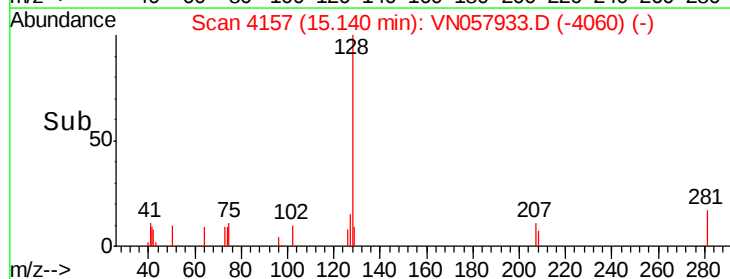
129 6.9 8.6 12.8#

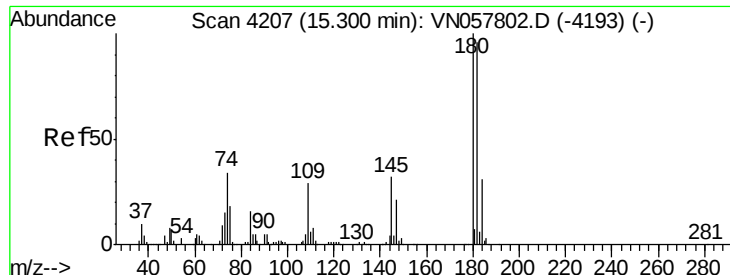


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.182 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN057933.D
 Acq: 11 Sep 2019 19:04

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-091019-01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.3	144.8#
145	7.0	16.3	48.8#

