

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN080919\
 Data File : VN057146.D
 Acq On : 9 Aug 2019 15:01
 Operator : JC/SP
 Sample : K4262-12
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB_080819

Quant Time: Aug 10 02:12:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:49:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1387096	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1936551	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1604860	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	397588	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	659745	46.25	ug/l	0.00
Spiked Amount			Recovery	=	92.50%	
35) Dibromofluoromethane	6.99	113	595301	48.99	ug/l	0.00
Spiked Amount			Recovery	=	97.98%	
50) Toluene-d8	9.56	98	2252115	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	
62) 4-Bromofluorobenzene	11.92	95	592510	39.55	ug/l	0.00
Spiked Amount			Recovery	=	79.10%	

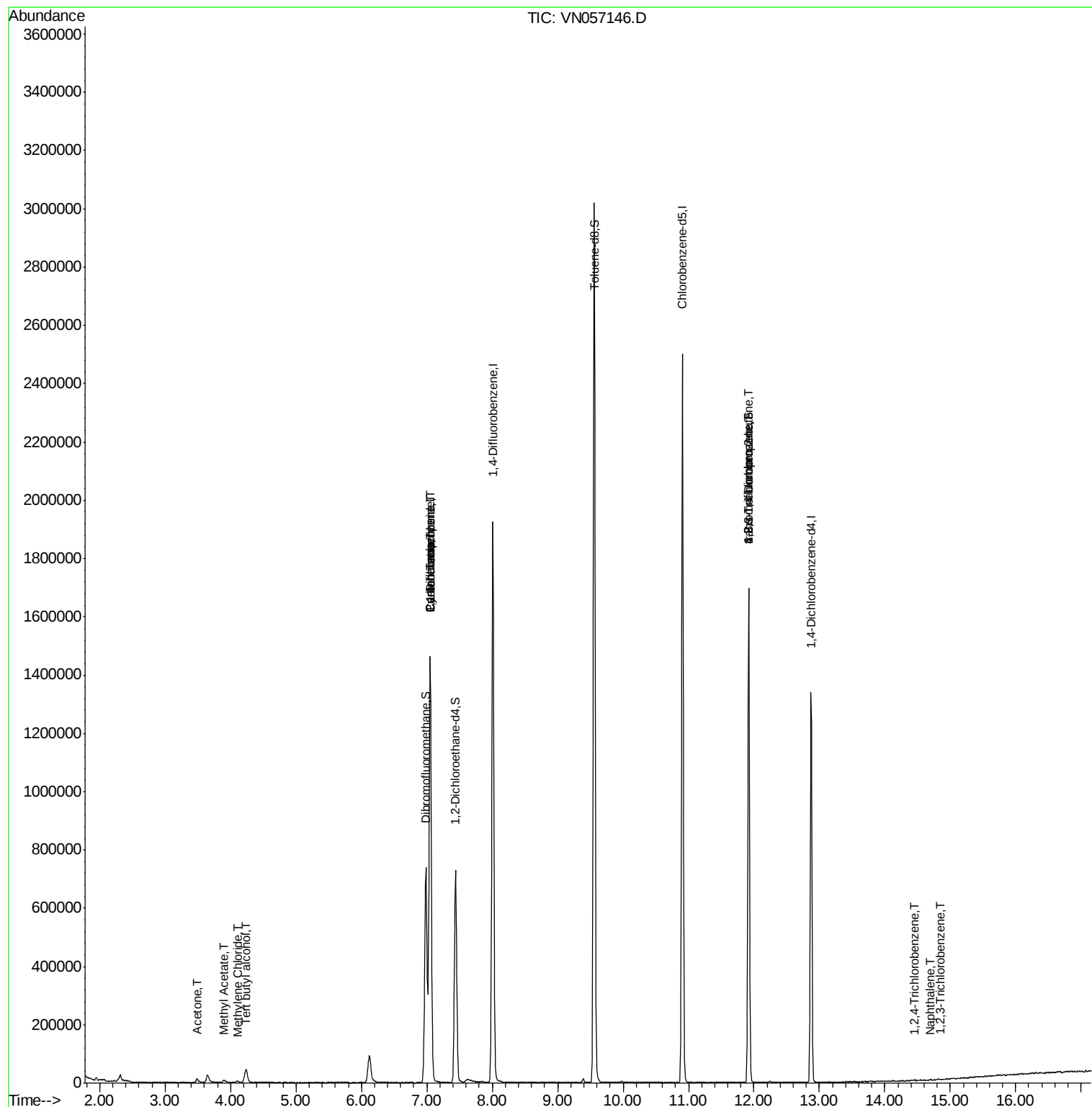
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.24	59	39565	19.490	ug/l #	74
16) Acetone	3.49	43	14965	3.474	ug/l #	83
18) Methyl Acetate	3.90	43	16307	0.622	ug/l #	87
20) Methylene Chloride	4.10	84	4074	0.287	ug/l #	70
31) Cyclohexane	7.05	56	19544	0.945	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	86411	5.419	ug/l #	47
38) Carbon Tetrachloride	7.06	117	117685	7.082	ug/l #	17
73) Isopropylbenzene	11.76	105	233	Below Cal		97
75) 1,1,2,2-Tetrachloroethane	11.92	83	258	Below Cal #		1
76) 1,2,3-Trichloropropane	11.92	75	270833	33.949	ug/l #	100
79) 2-Chlorotoluene	12.20	91	277	Below Cal #		39
81) trans-1,4-Dichloro-2-buten	11.92	75	270833	100.159	ug/l #	14
83) tert-Butylbenzene	12.52	119	299	Below Cal #		28
93) 1,2,4-Trichlorobenzene	14.45	180	520	6.010	ug/l #	82
94) Hexachlorobutadiene	14.54	225	76	Below Cal #		19
95) Naphthalene	14.68	128	515	2.852	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.84	180	368	5.776	ug/l #	86

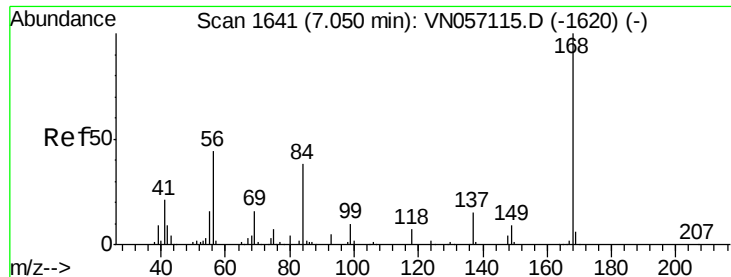
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. 0.00 min

Lab File: VN057146.D

Acq: 9 Aug 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

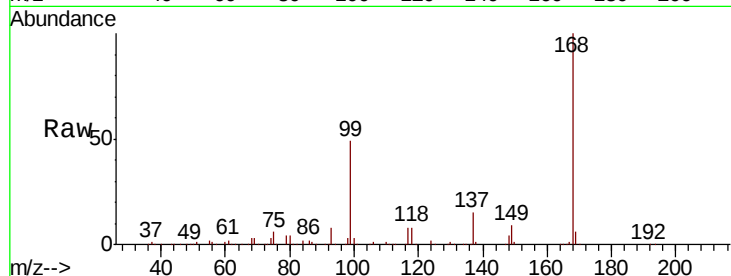
FB_080819

Tgt Ion:168 Resp: 1387096

Ion Ratio Lower Upper

168 100

99 49.1 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.05

600000

500000

400000

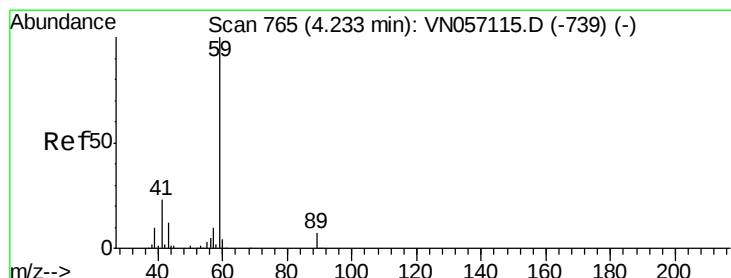
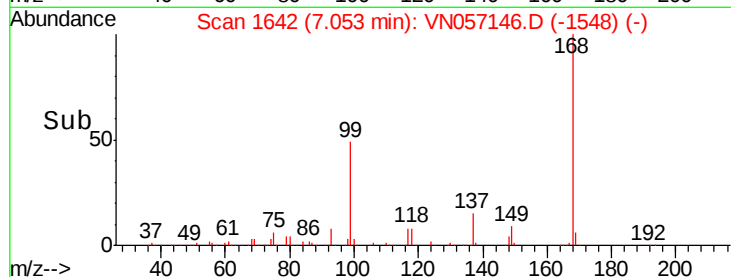
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 19.490 ug/l

RT: 4.24 min Scan# 767

Delta R.T. 0.01 min

Lab File: VN057146.D

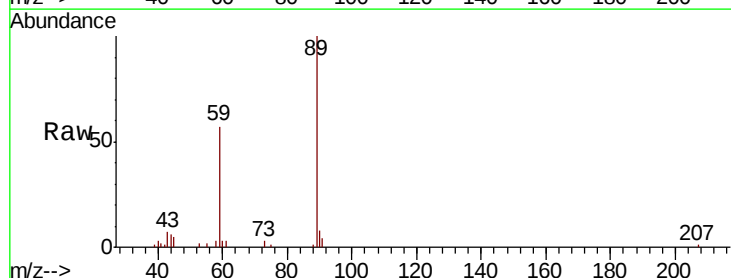
Acq: 9 Aug 2019 15:01

Tgt Ion: 59 Resp: 39565

Ion Ratio Lower Upper

59 100

57 0.3 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.24

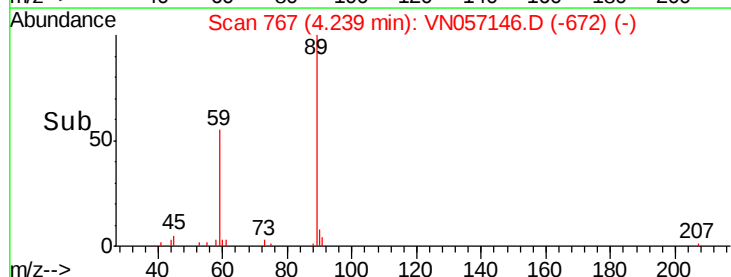
15000

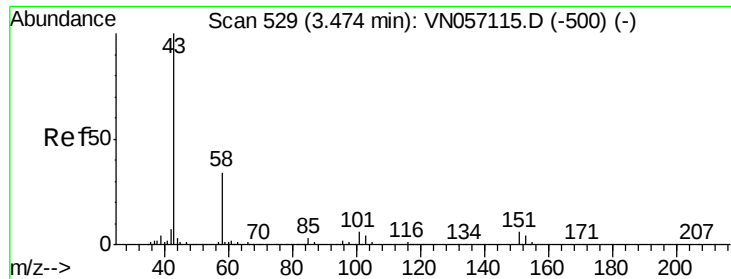
10000

5000

0

Time-->

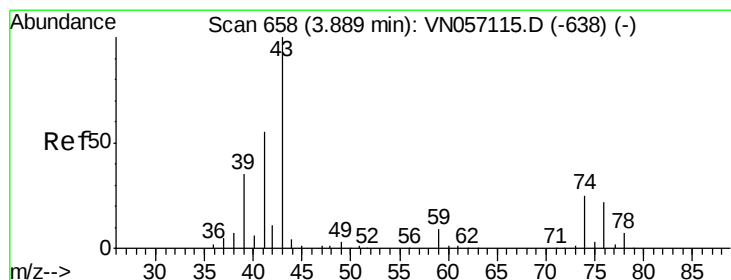
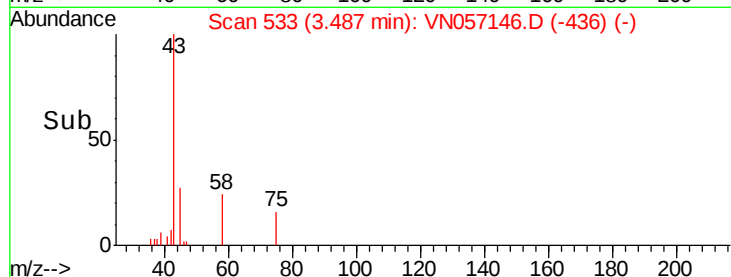
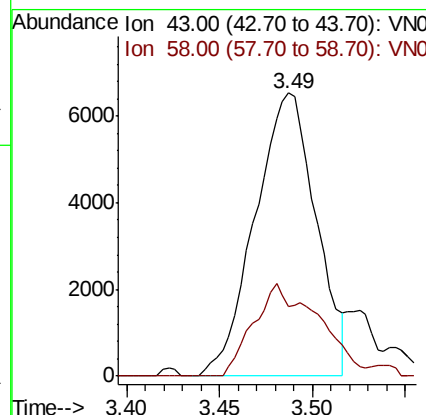
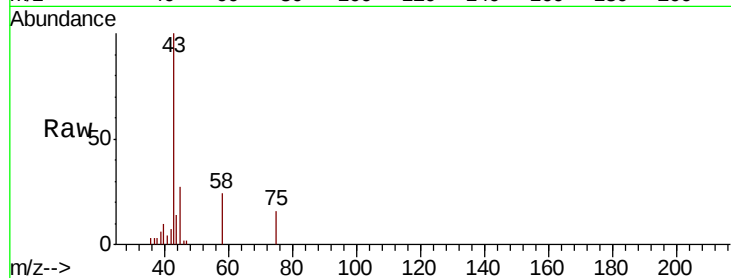




#16
Acetone
Concen: 3.474 ug/l
RT: 3.49 min Scan# 533
Delta R.T. 0.01 min
Lab File: VN057146.D
Acq: 9 Aug 2019 15:01

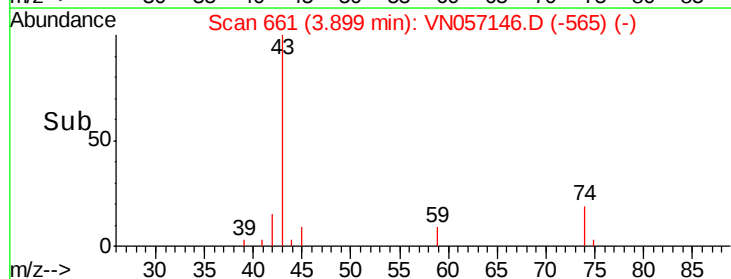
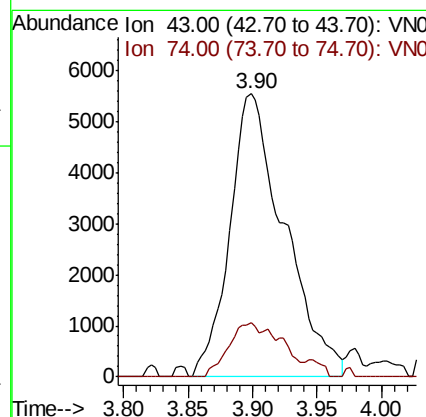
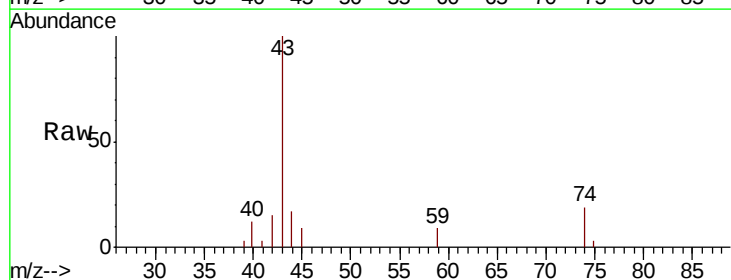
Instrument :
MSVOA_N
ClientSampled :
FB_080819

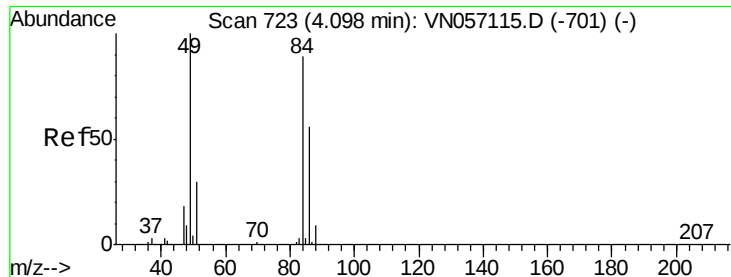
Tgt Ion: 43 Resp: 14965
Ion Ratio Lower Upper
43 100
58 24.5 27.4 41.2#



#18
Methyl Acetate
Concen: 0.622 ug/l
RT: 3.90 min Scan# 661
Delta R.T. 0.01 min
Lab File: VN057146.D
Acq: 9 Aug 2019 15:01

Tgt Ion: 43 Resp: 16307
Ion Ratio Lower Upper
43 100
74 18.5 20.2 30.4#

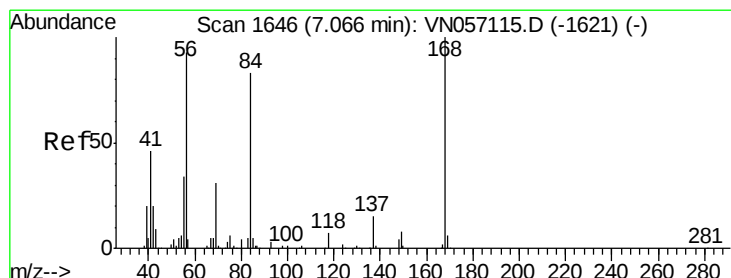
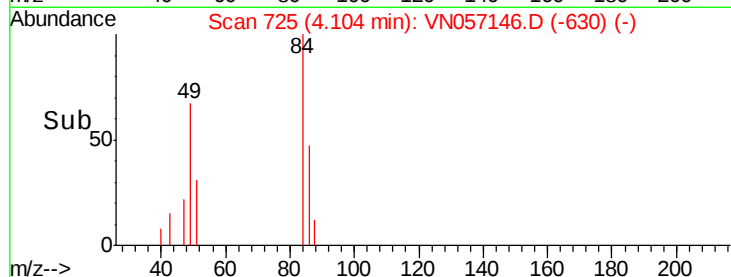
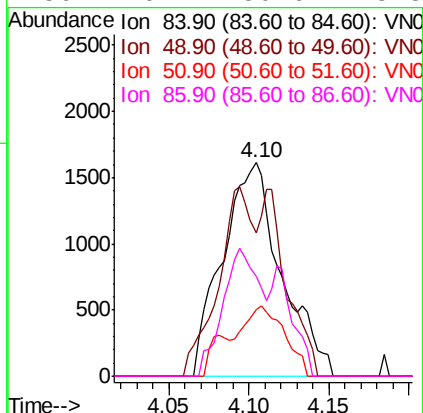
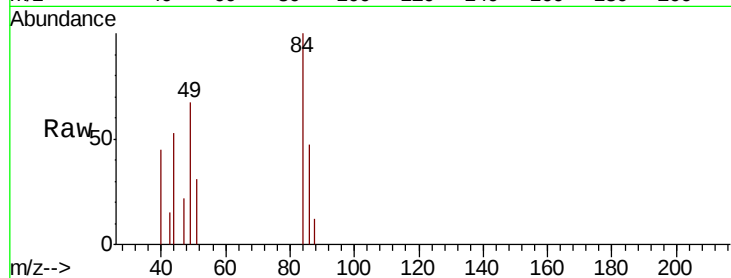




#20
Methylene Chloride
Concen: 0.287 ug/l
RT: 4.10 min Scan# 725
Delta R.T. 0.01 min
Lab File: VN057146.D
Acq: 9 Aug 2019 15:01

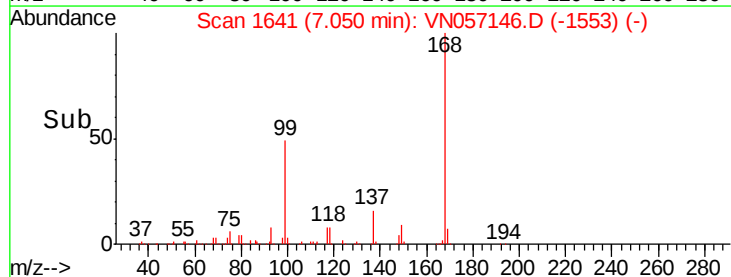
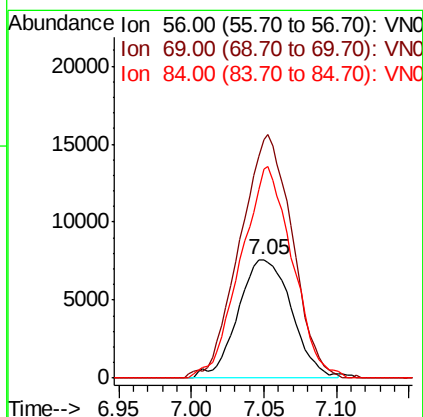
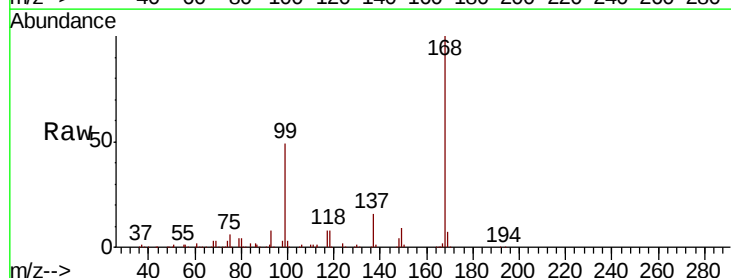
Instrument :
MSVOA_N
ClientSampleId :
FB_080819

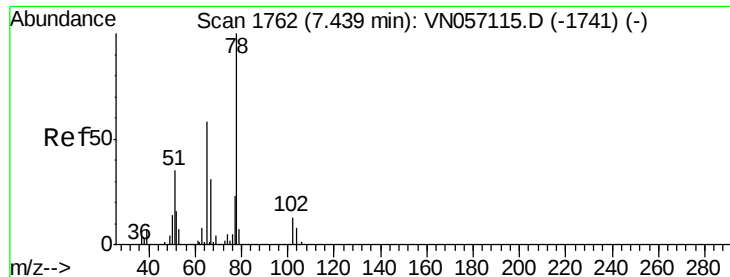
Tgt Ion:	84	Resp:	4074
Ion	Ratio	Lower	Upper
84	100		
49	67.3	89.5	134.3#
51	31.4	27.2	40.8
86	46.7	50.6	75.8#



#31
Cyclohexane
Concen: 0.945 ug/l
RT: 7.05 min Scan# 1641
Delta R.T. -0.02 min
Lab File: VN057146.D
Acq: 9 Aug 2019 15:01

Tgt Ion:	56	Resp:	19544
Ion	Ratio	Lower	Upper
56	100		
69	198.1	26.9	40.3#
84	176.4	71.9	107.9#

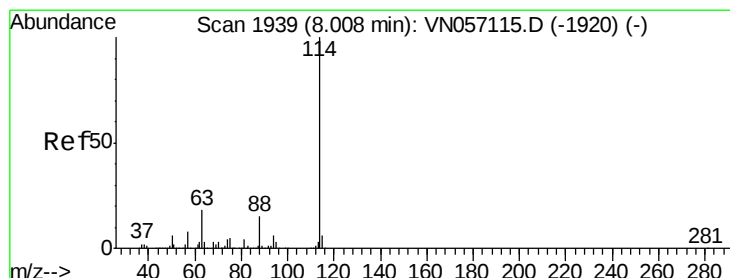
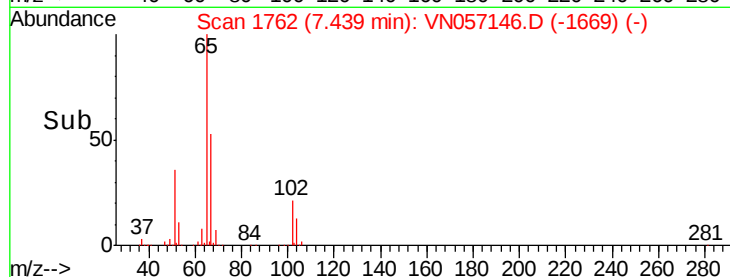
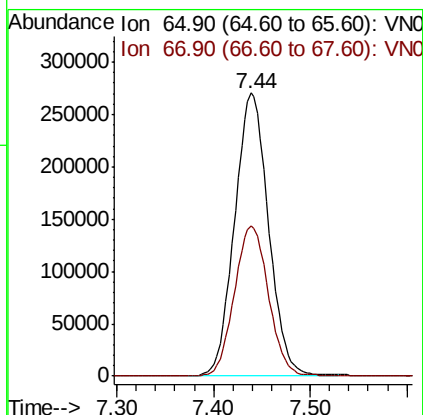
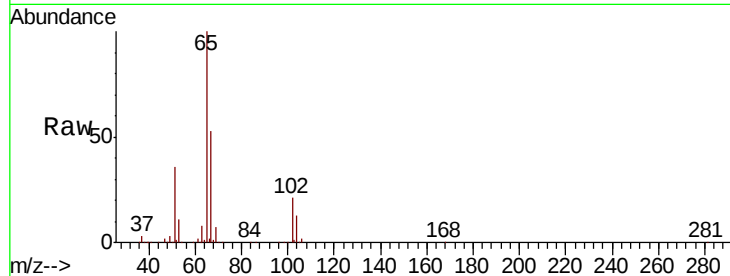




#33
 1,2-Dichloroethane-d4
 Concen: 46.248 ug/l
 RT: 7.44 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VN057146.D
 Acq: 9 Aug 2019 15:01

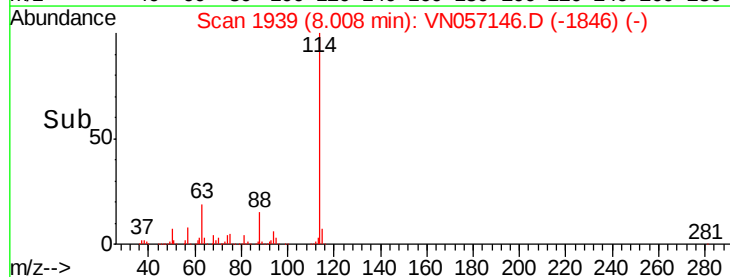
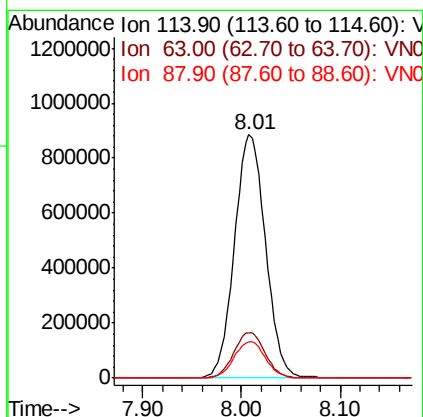
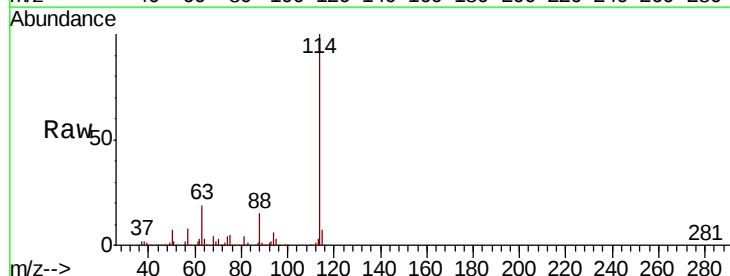
Instrument :
 MSVOA_N
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 FB_080819

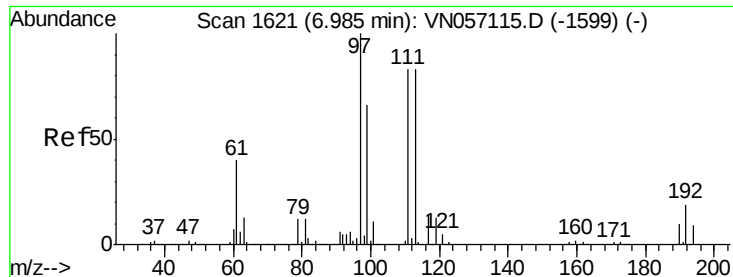
Tgt Ion: 65 Resp: 659745
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN057146.D
 Acq: 9 Aug 2019 15:01

Tgt Ion: 114 Resp: 1936551
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 36.2
 88 14.9 0.0 30.0

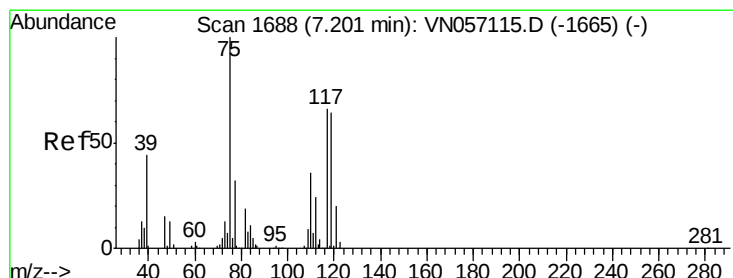
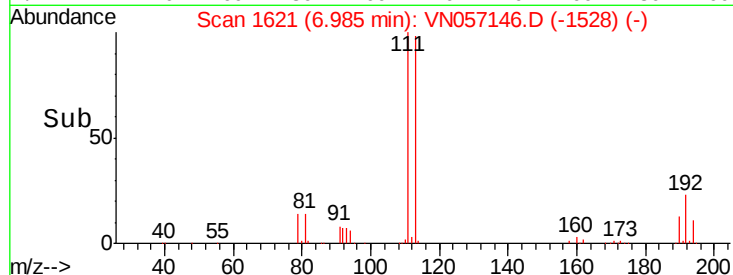
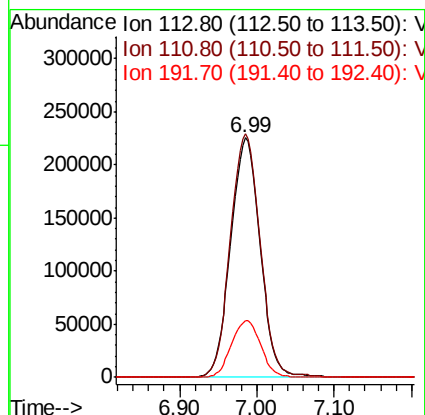
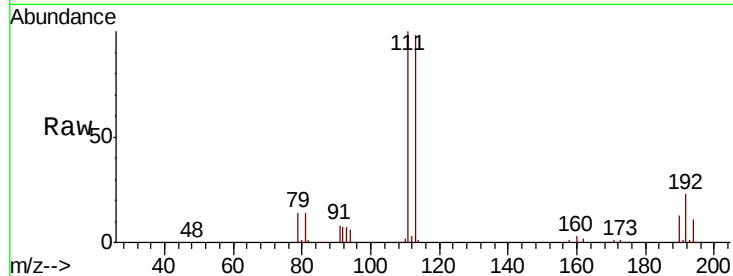




#35
 Dibromofluoromethane
 Concen: 48.987 ug/l
 RT: 6.99 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VN057146.D
 Acq: 9 Aug 2019 15:01

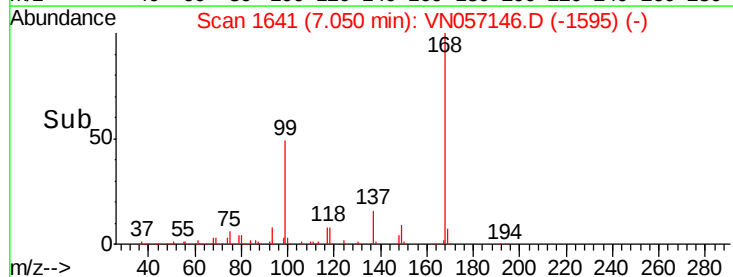
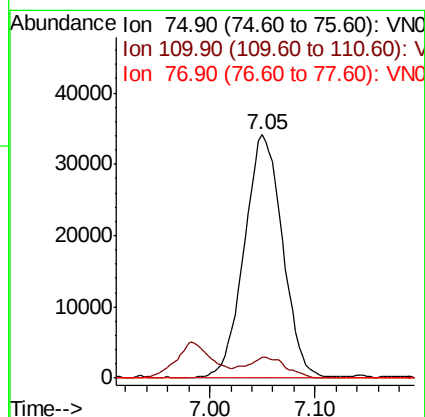
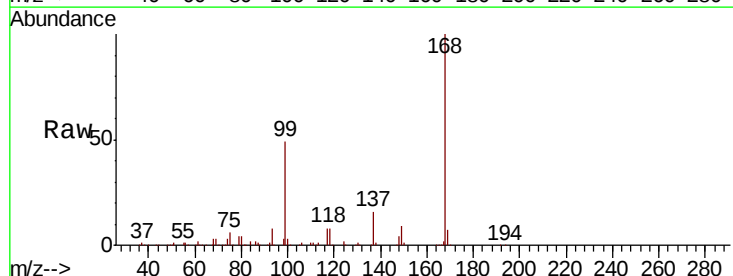
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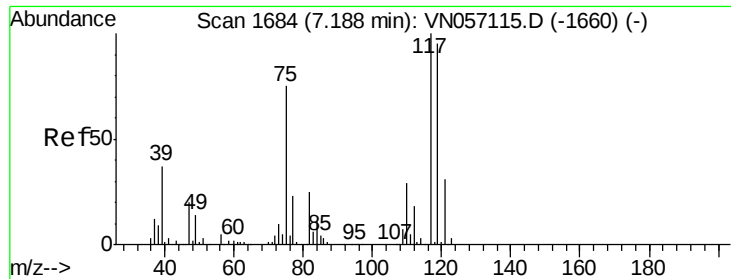
Tgt Ion:113 Resp: 595301
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.3 121.9
 192 23.7 19.0 28.4



#36
 1,1-Dichloropropene
 Concen: 5.419 ug/l
 RT: 7.05 min Scan# 1641
 Delta R.T. -0.15 min
 Lab File: VN057146.D
 Acq: 9 Aug 2019 15:01

Tgt Ion: 75 Resp: 86411
 Ion Ratio Lower Upper
 75 100
 110 7.2 18.7 56.1#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 7.082 ug/l

RT: 7.06 min Scan# 1643

Delta R.T. -0.13 min

Lab File: VN057146.D

Acq: 9 Aug 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

FB_080819

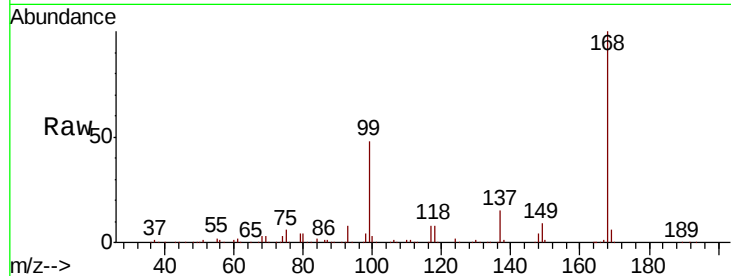
Tgt Ion:117 Resp: 117685

Ion Ratio Lower Upper

117 100

119 5.3 75.8 113.6#

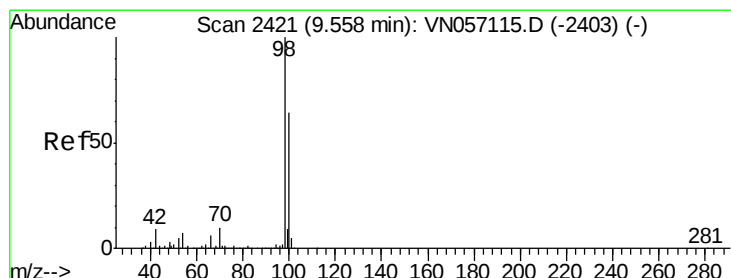
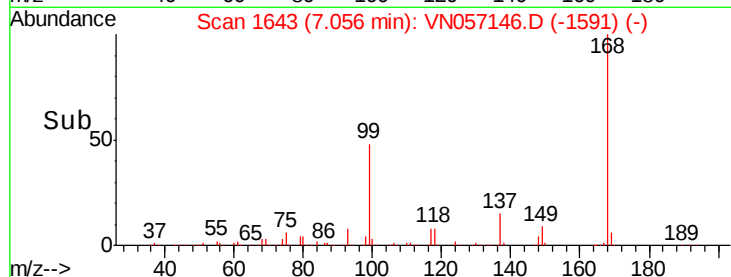
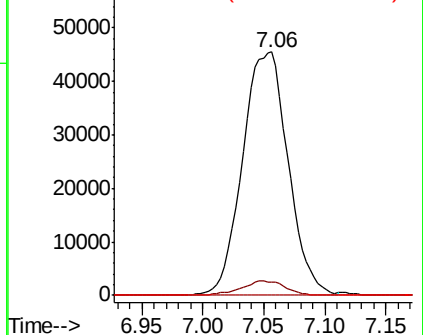
121 0.0 24.4 36.6#



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: 48.441 ug/l

RT: 9.56 min Scan# 2421

Delta R.T. -0.00 min

Lab File: VN057146.D

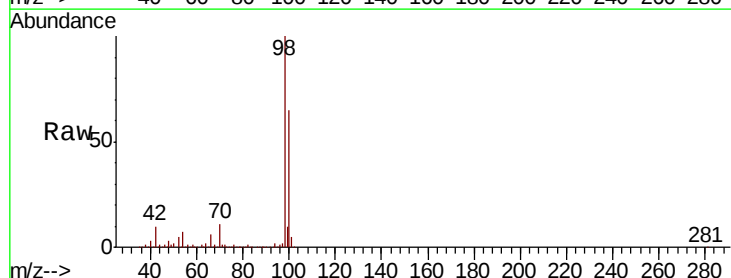
Acq: 9 Aug 2019 15:01

Tgt Ion: 98 Resp: 2252115

Ion Ratio Lower Upper

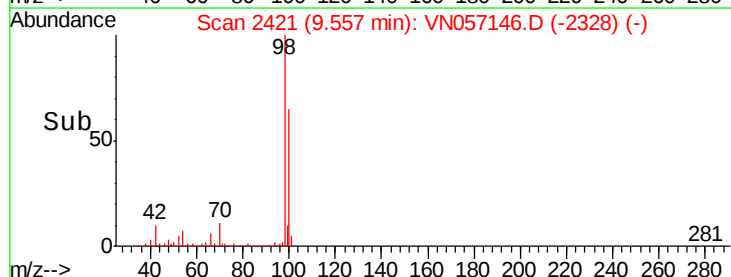
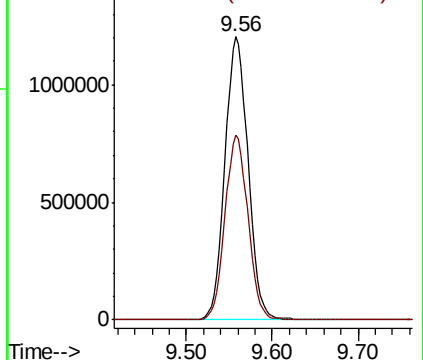
98 100

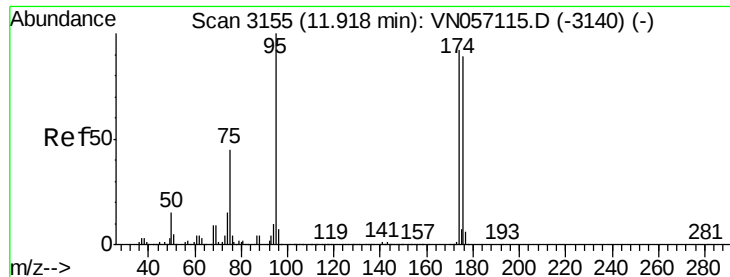
100 65.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 39.553 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VN057146.D

Acq: 9 Aug 2019 15:01

Instrument :

MSVOA_N

ClientSampled :

FB_080819

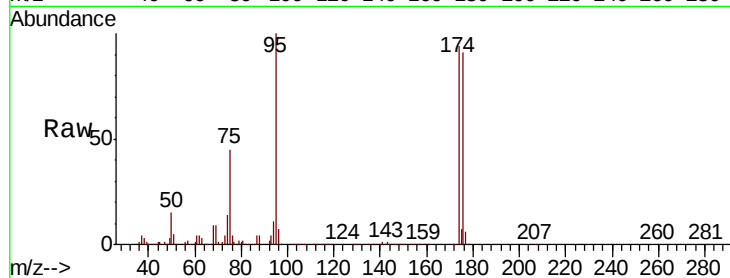
Tgt Ion: 95 Resp: 592510

Ion Ratio Lower Upper

95 100

174 95.1 0.0 185.0

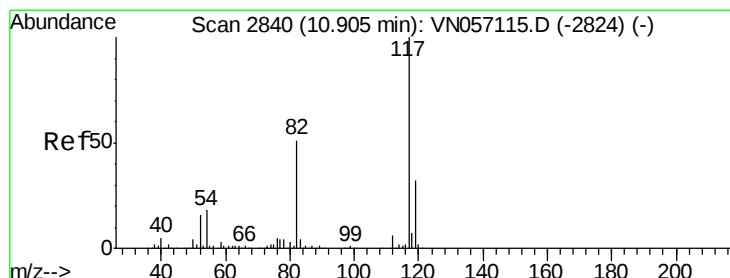
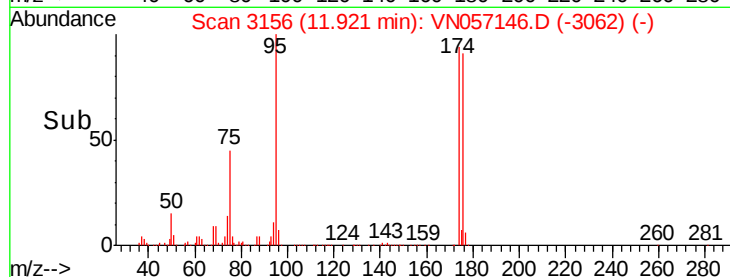
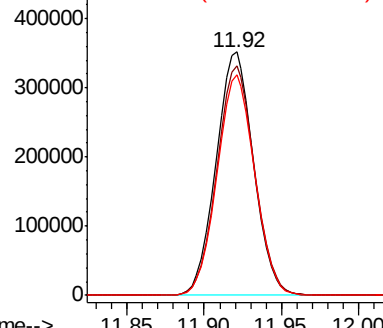
176 91.2 0.0 181.2



Abundance Ion 94.90 (94.60 to 95.60): VN057115.D (-3140) (-)

Ion 173.80 (173.50 to 174.50): VN057115.D (-3140) (-)

Ion 175.80 (175.50 to 176.50): VN057115.D (-3140) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.91 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VN057146.D

Acq: 9 Aug 2019 15:01

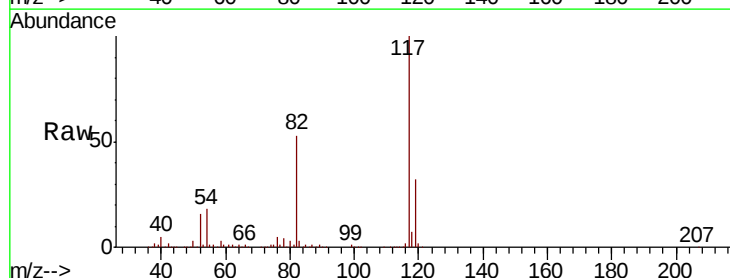
Tgt Ion: 117 Resp: 1604860

Ion Ratio Lower Upper

117 100

82 52.6 40.8 61.2

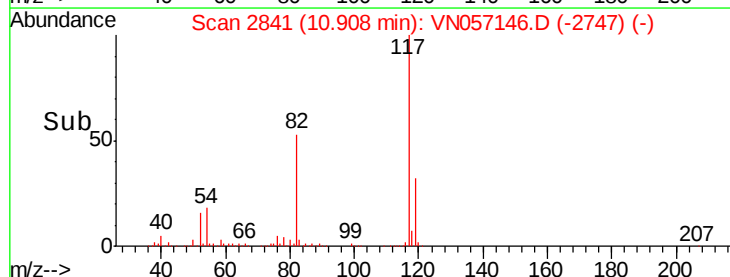
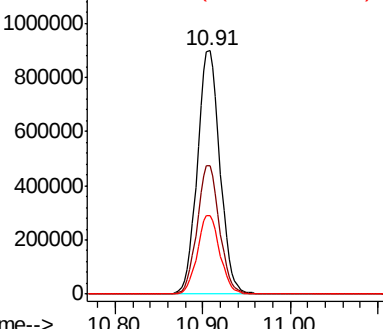
119 32.5 25.7 38.5

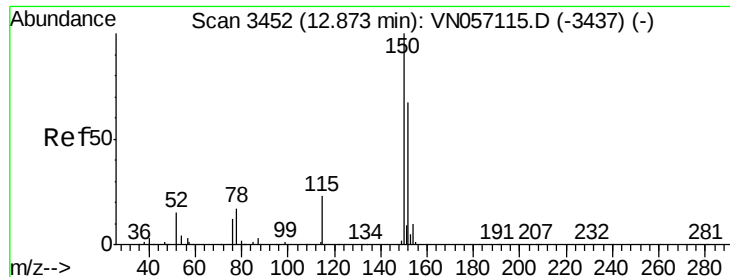


Abundance Ion 116.90 (116.60 to 117.60): VN057115.D (-2824) (-)

Ion 82.00 (81.70 to 82.70): VN057115.D (-2824) (-)

Ion 118.90 (118.60 to 119.60): VN057115.D (-2824) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.88 min Scan# 3453

Delta R.T. 0.00 min

Lab File: VN057146.D

Acq: 9 Aug 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

FB_080819

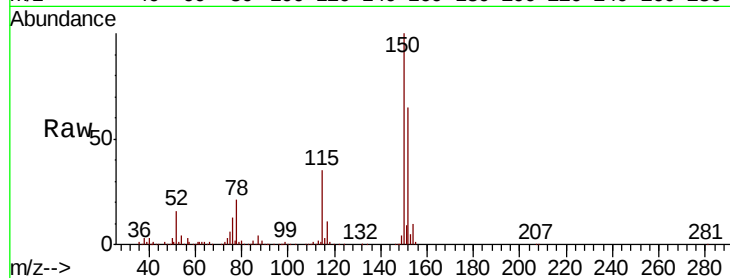
Tgt Ion:152 Resp: 397588

Ion Ratio Lower Upper

152 100

115 56.3 27.5 82.5

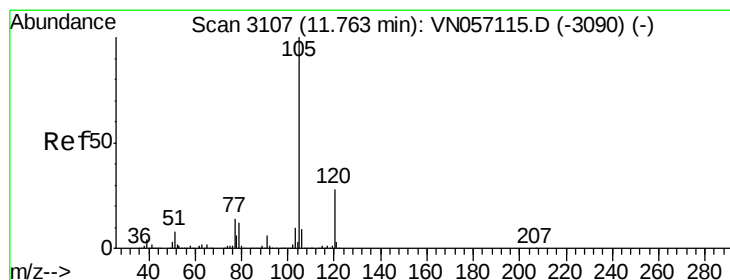
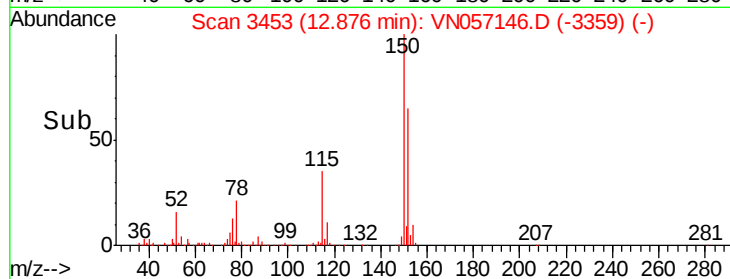
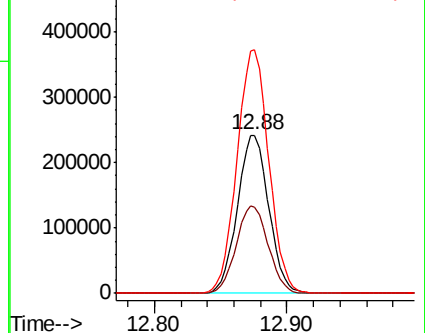
150 156.1 0.0 341.6



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: Below Cal

RT: 11.76 min Scan# 3107

Delta R.T. 0.00 min

Lab File: VN057146.D

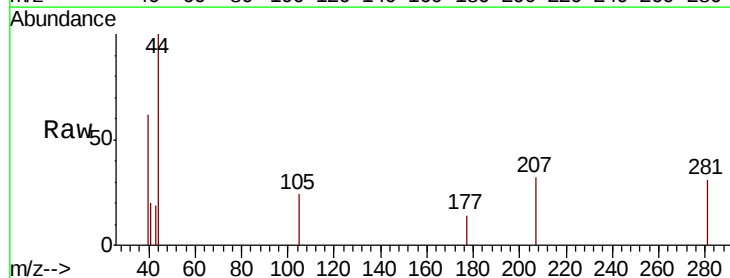
Acq: 9 Aug 2019 15:01

Tgt Ion:105 Resp: 233

Ion Ratio Lower Upper

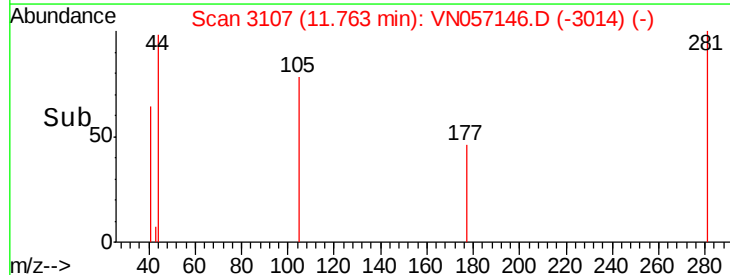
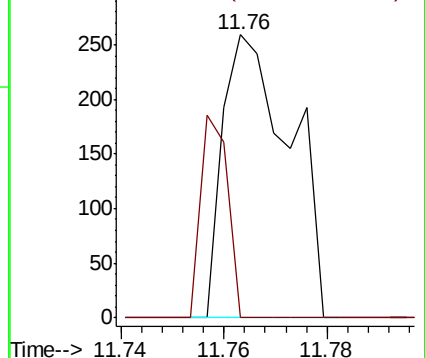
105 100

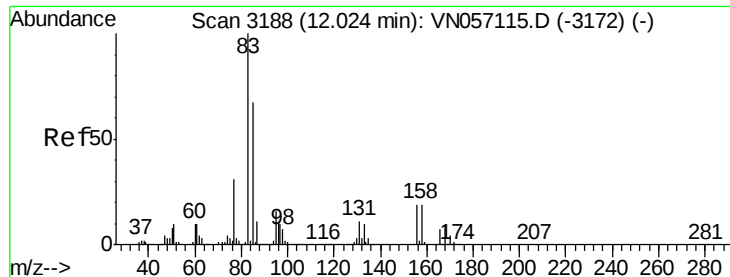
120 28.8 13.7 41.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.92 min Scan# 3156

Delta R.T. -0.10 min

Lab File: VN057146.D

Acq: 9 Aug 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

FB_080819

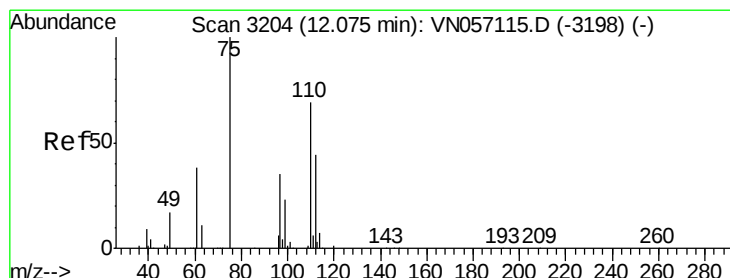
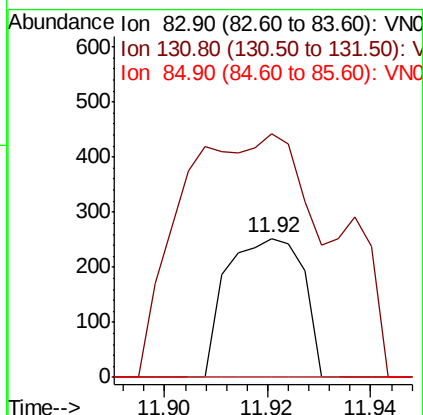
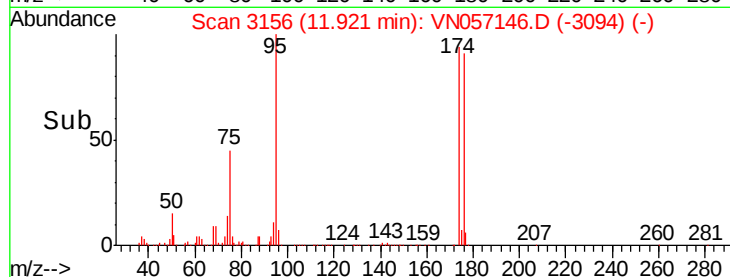
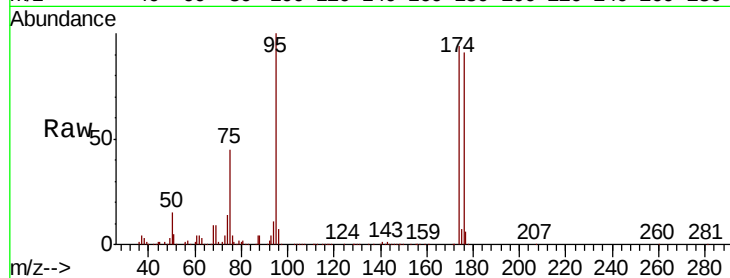
Tgt Ion: 83 Resp: 258

Ion Ratio Lower Upper

83 100

131 350.0 5.5 16.4#

85 0.0 32.4 97.0#



#76

1,2,3-Trichloropropane

Concen: 33.949 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. -0.15 min

Lab File: VN057146.D

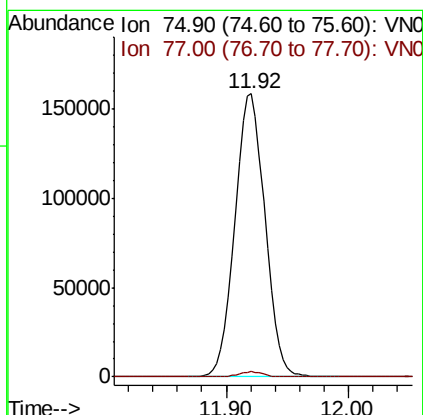
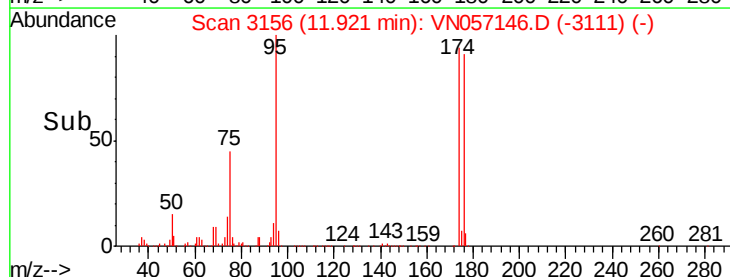
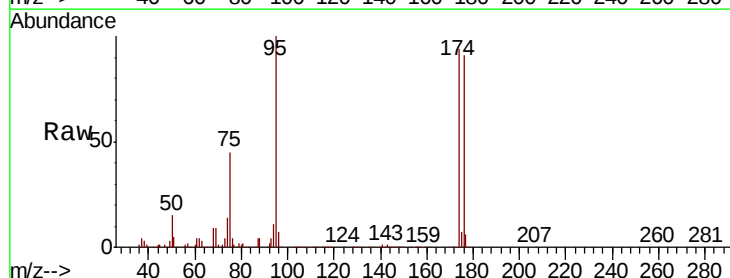
Acq: 9 Aug 2019 15:01

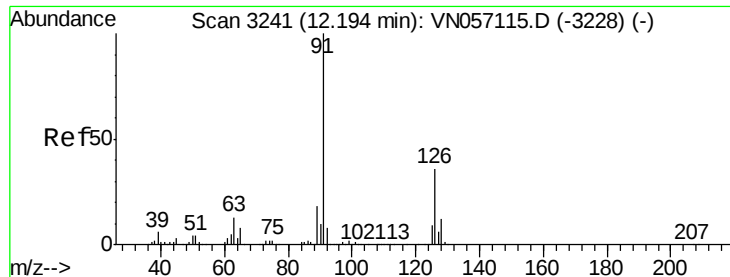
Tgt Ion: 75 Resp: 270833

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#

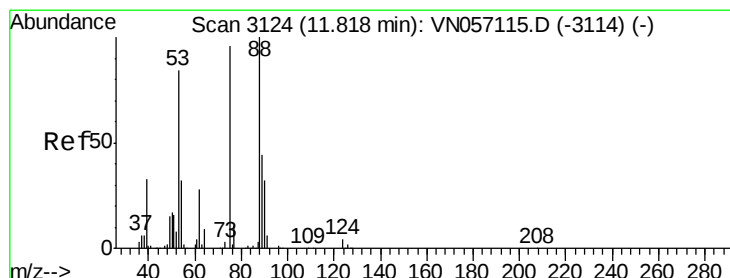
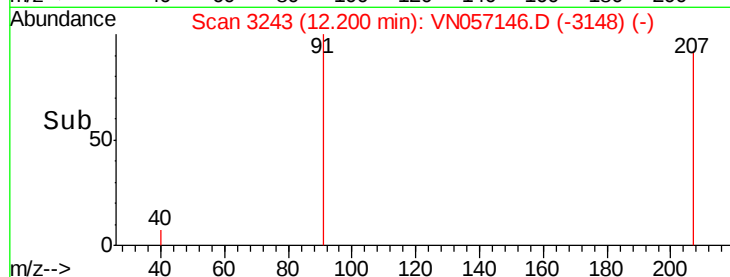
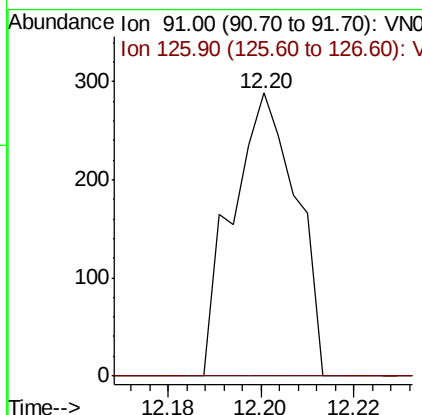
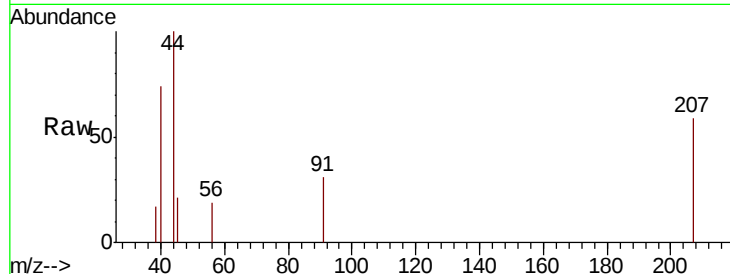




#79
2-Chlorotoluene
Concen: Below Cal
RT: 12.20 min Scan# 3243
Delta R.T. 0.01 min
Lab File: VN057146.D
Acq: 9 Aug 2019 15:01

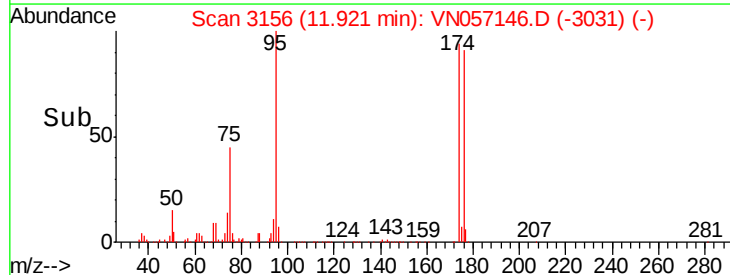
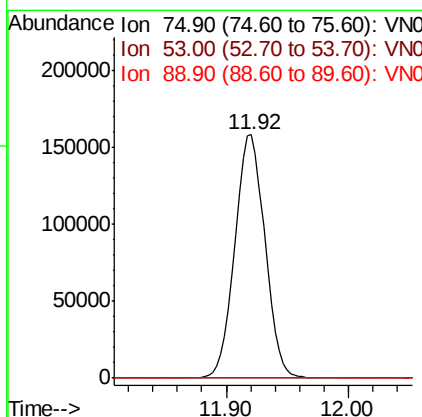
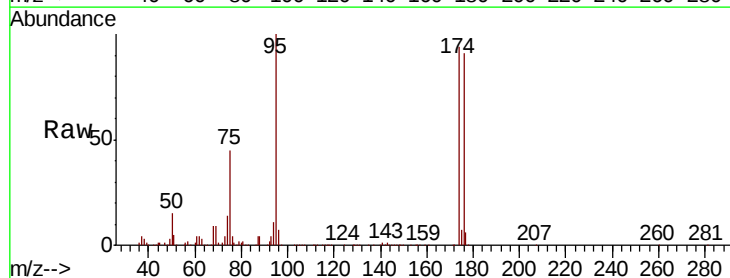
Instrument :
MSVOA_N
ClientSampleId :
FB_080819

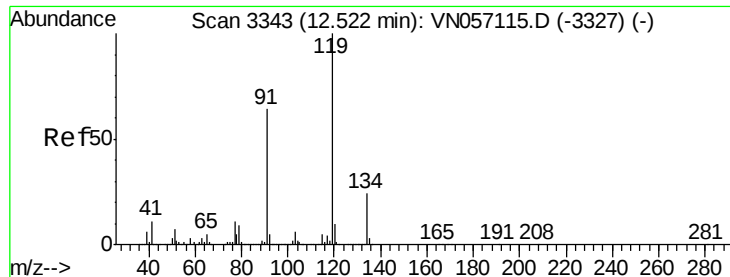
Tgt Ion: 91 Resp: 277
Ion Ratio Lower Upper
91 100
126 0.0 18.1 54.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 100.159 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.10 min
Lab File: VN057146.D
Acq: 9 Aug 2019 15:01

Tgt Ion: 75 Resp: 270833
Ion Ratio Lower Upper
75 100
53 0.0 70.6 106.0#
89 0.0 36.4 54.6#





#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN057146.D

Acq: 9 Aug 2019 15:01

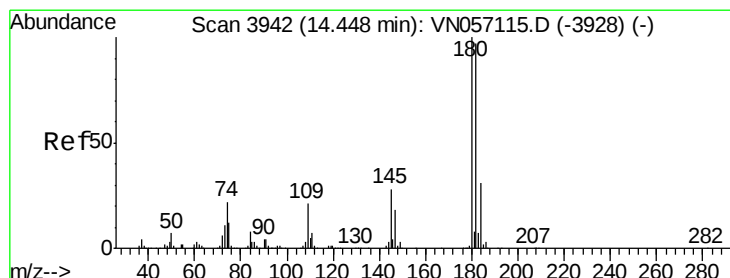
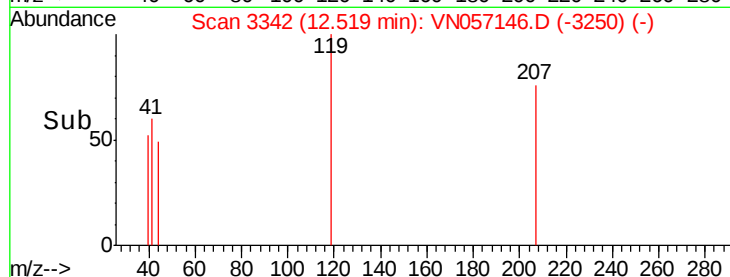
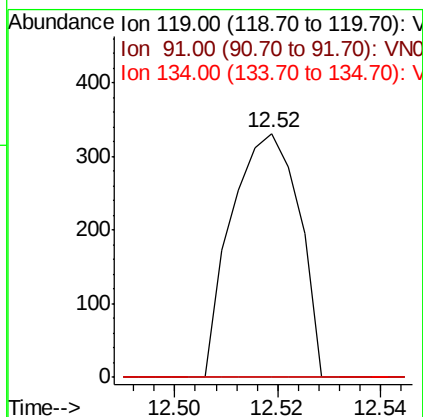
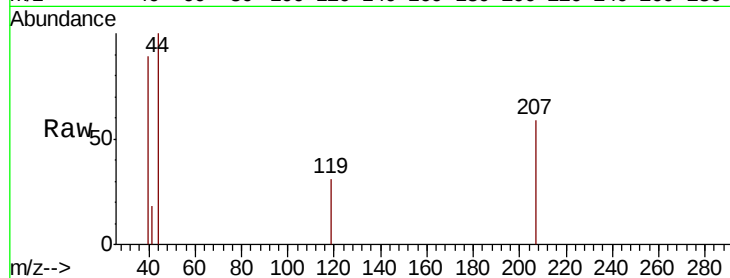
Instrument :

MSVOA_N

ClientSampleId :

FB_080819

Tgt Ion:	119	Resp:	299
Ion	Ratio	Lower	Upper
119	100		
91	0.0	31.4	94.2#
134	0.0	13.2	39.6#



#93

1,2,4-Trichlorobenzene

Concen: 6.010 ug/l

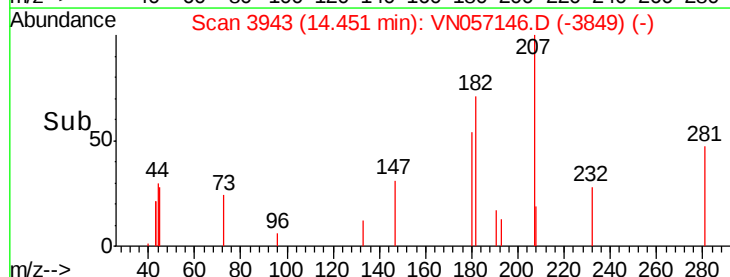
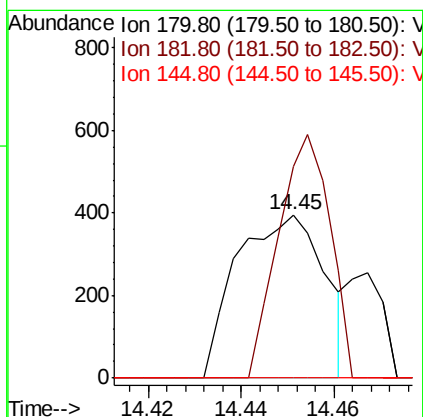
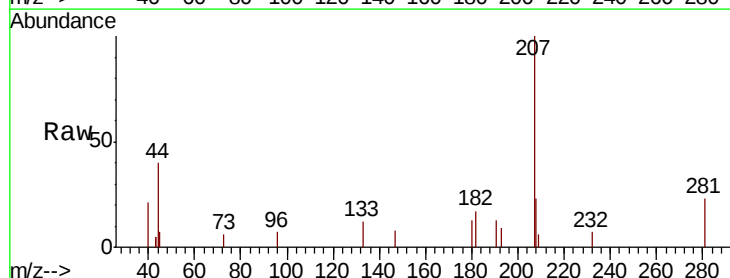
RT: 14.45 min Scan# 3943

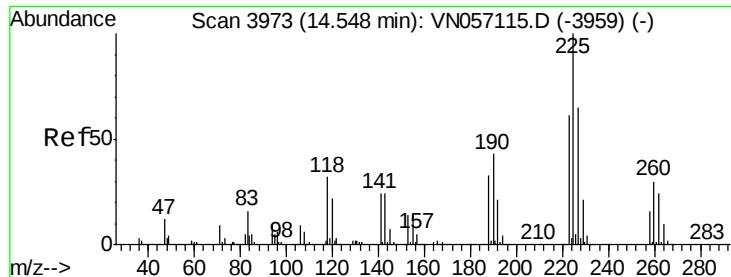
Delta R.T. 0.00 min

Lab File: VN057146.D

Acq: 9 Aug 2019 15:01

Tgt Ion:	180	Resp:	520
Ion	Ratio	Lower	Upper
180	100		
182	87.9	47.5	142.6
145	0.0	14.1	42.2#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 14.54 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VN057146.D

Acq: 9 Aug 2019 15:01

Instrument :

MSVOA_N

ClientSampleID :

FB_080819

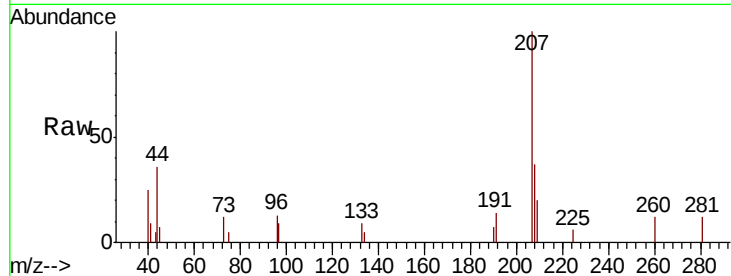
Tgt Ion:225 Resp: 76

Ion Ratio Lower Upper

225 100

223 0.0 30.9 92.8#

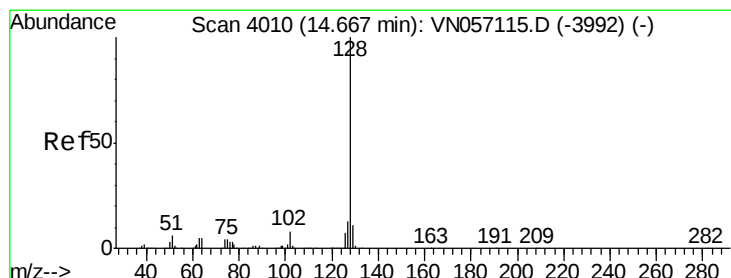
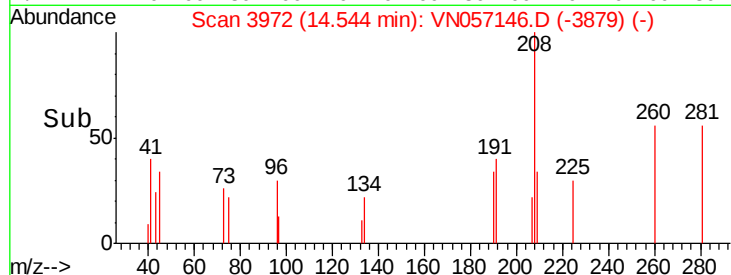
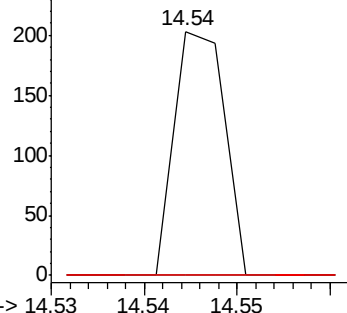
227 0.0 32.4 97.0#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.852 ug/l

RT: 14.68 min Scan# 4014

Delta R.T. 0.01 min

Lab File: VN057146.D

Acq: 9 Aug 2019 15:01

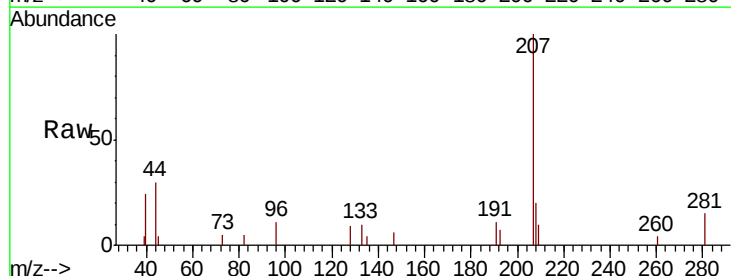
Tgt Ion:128 Resp: 515

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

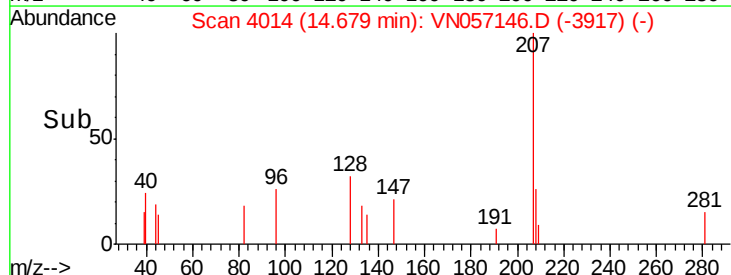
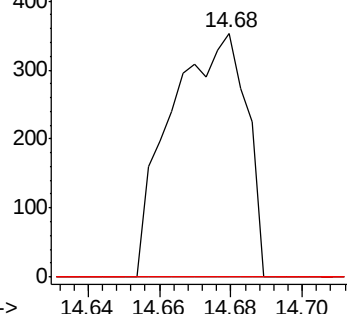
129 0.0 8.8 13.2#

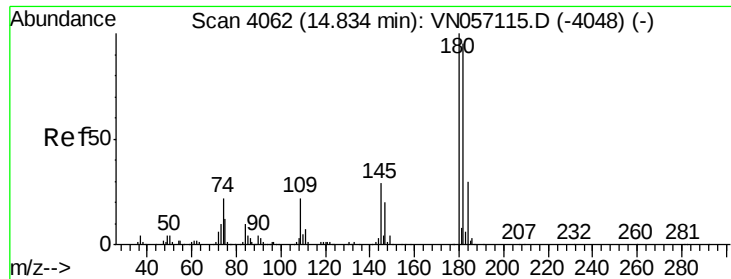


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

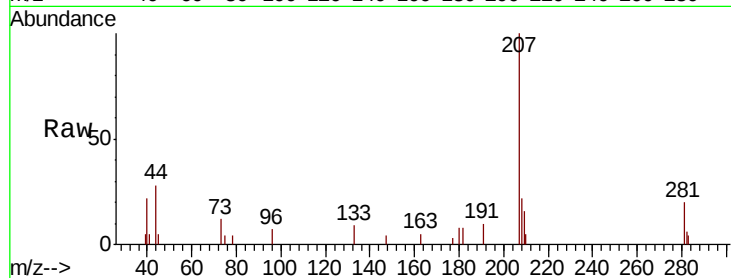




#96
 1,2,3-Trichlorobenzene
 Concen: 5.776 ug/l
 RT: 14.84 min Scan# 4064
 Delta R.T. 0.01 min
 Lab File: VN057146.D
 Acq: 9 Aug 2019 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 FB_080819

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.3	144.8
145	0.0	14.9	44.5#



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

