

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN080919\
 Data File : VN057145.D
 Acq On : 9 Aug 2019 14:37
 Operator : JC/SP
 Sample : K4281-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SAMPLE-MANA

Quant Time: Aug 10 02:12:17 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	1355487	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1921460	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1558220	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	372873	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	636347	45.65	ug/l	0.00
Spiked Amount			Recovery	=	91.30%	
35) Dibromofluoromethane	6.99	113	572971	47.52	ug/l	0.00
Spiked Amount			Recovery	=	95.04%	
50) Toluene-d8	9.56	98	2202511	47.75	ug/l	0.00
Spiked Amount			Recovery	=	95.50%	
62) 4-Bromofluorobenzene	11.92	95	563598	37.92	ug/l	0.00
Spiked Amount			Recovery	=	75.84%	

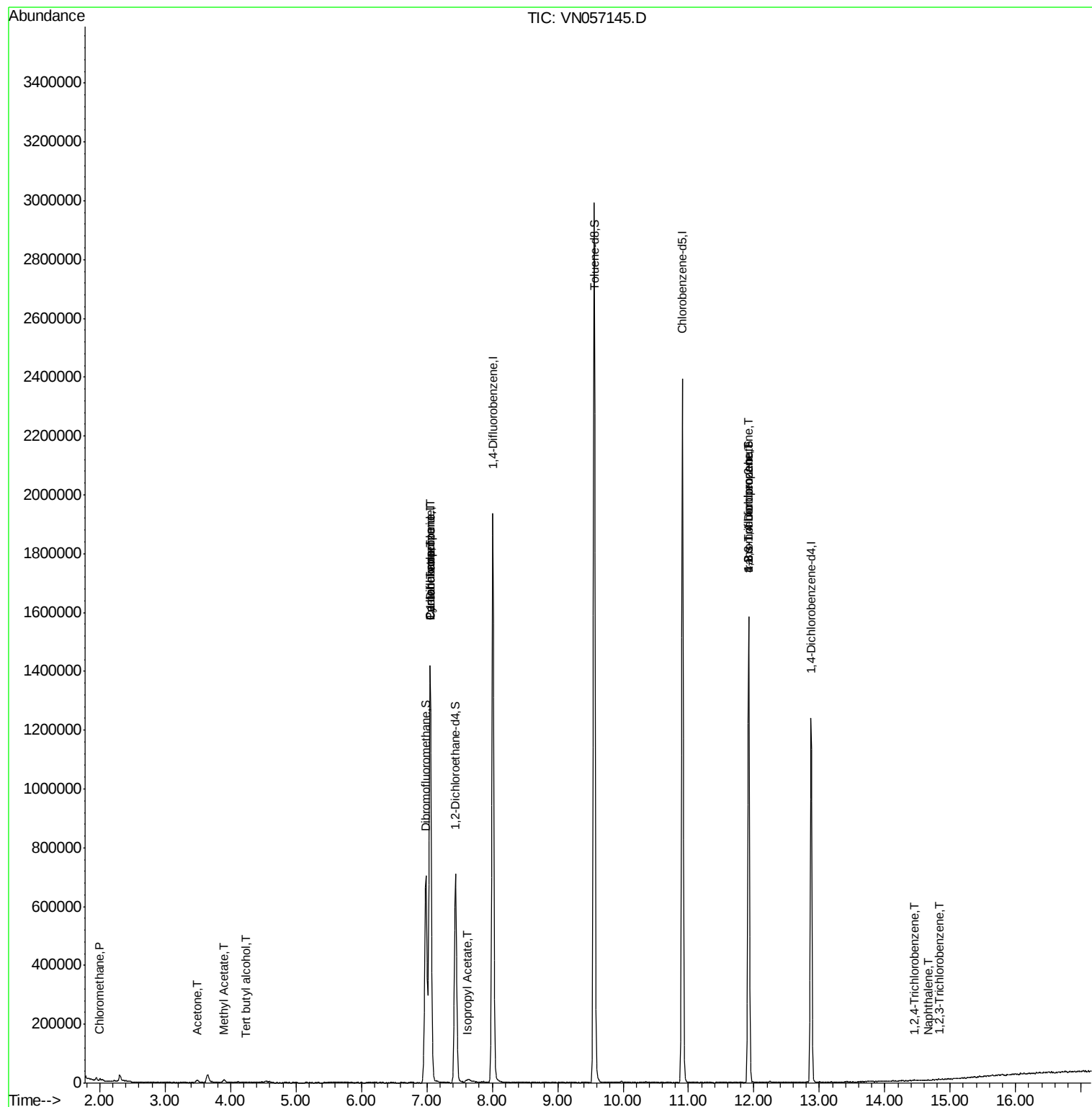
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.00	50	4899	0.338	ug/l	93
11) Tert butyl alcohol	4.24	59	490	0.247	ug/l #	73
16) Acetone	3.48	43	11598	2.755	ug/l	99
18) Methyl Acetate	3.90	43	18172	0.802	ug/l	95
31) Cyclohexane	7.05	56	21766	1.076	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	84322	5.330	ug/l #	48
37) Ethyl Acetate	6.27	43	60	Below Cal	#	70
38) Carbon Tetrachloride	7.05	117	114731	6.959	ug/l #	15
43) Isopropyl Acetate	7.62	43	7801	0.351	ug/l #	51
73) Isopropylbenzene	11.76	105	567	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	11.91	83	184	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.92	75	255968	34.237	ug/l #	100
79) 2-Chlorotoluene	12.20	91	465	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	11.92	75	255968	100.936	ug/l #	14
83) tert-Butylbenzene	12.53	119	124	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.44	180	445	6.003	ug/l #	47
94) Hexachlorobutadiene	14.55	225	121	Below Cal	#	52
95) Naphthalene	14.67	128	459	2.850	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.84	180	445	5.792	ug/l #	79

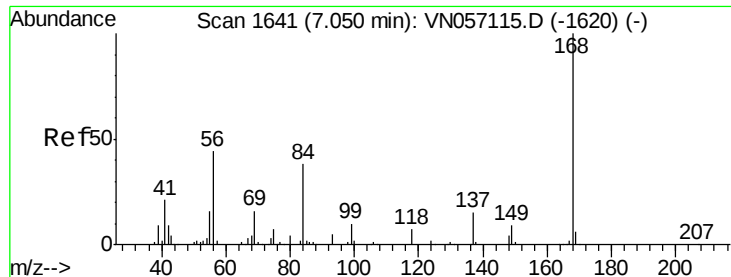
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057145.D

Acq: 9 Aug 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

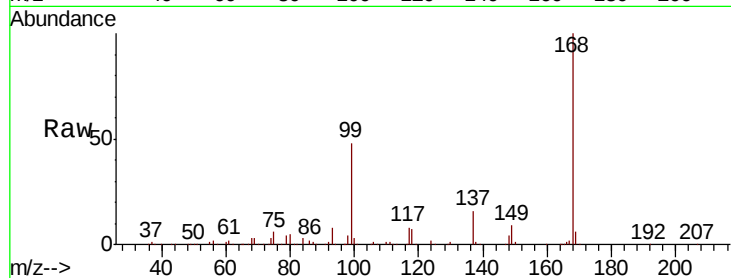
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion:168 Resp: 1355487

Ion Ratio Lower Upper

168 100

99 47.9 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): VN057115.D (-1620) (-)

Ion 98.90 (98.60 to 99.60): VN057115.D (-1620) (-)

7.05

600000

500000

400000

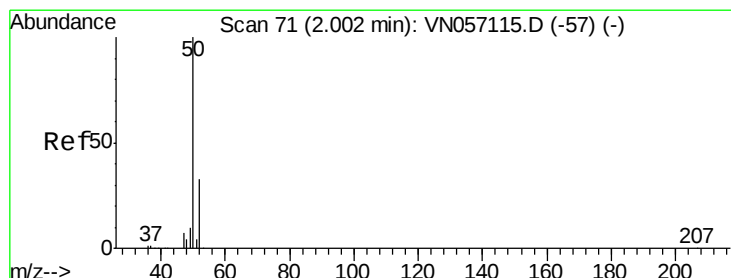
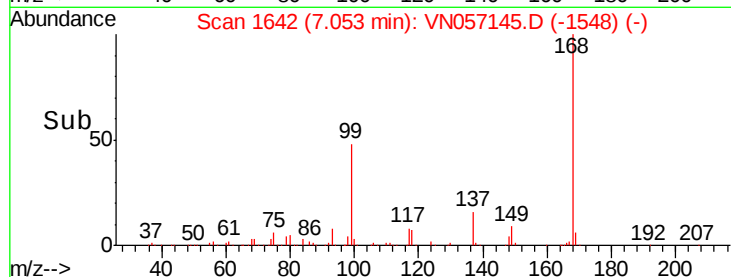
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.338 ug/l

RT: 2.00 min Scan# 71

Delta R.T. -0.00 min

Lab File: VN057145.D

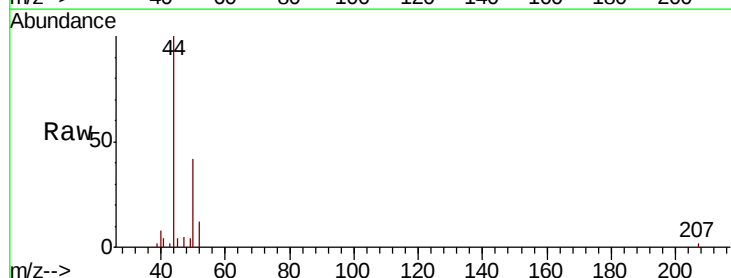
Acq: 9 Aug 2019 14:37

Tgt Ion: 50 Resp: 4899

Ion Ratio Lower Upper

50 100

52 28.7 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VN057115.D (-57) (-)

Ion 51.90 (51.60 to 52.60): VN057115.D (-57) (-)

2.00

4000

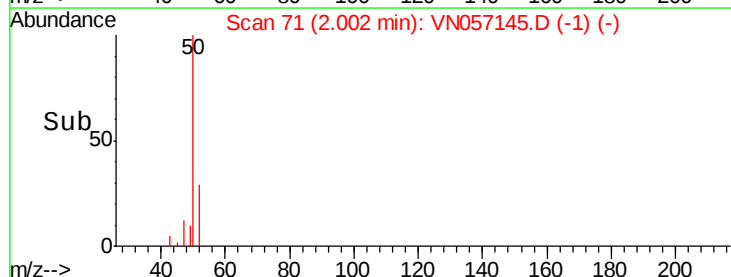
3000

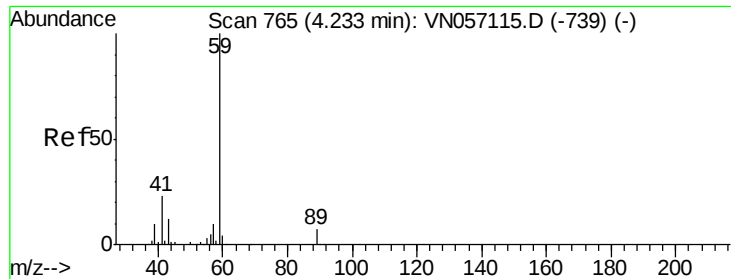
2000

1000

0

Time-->

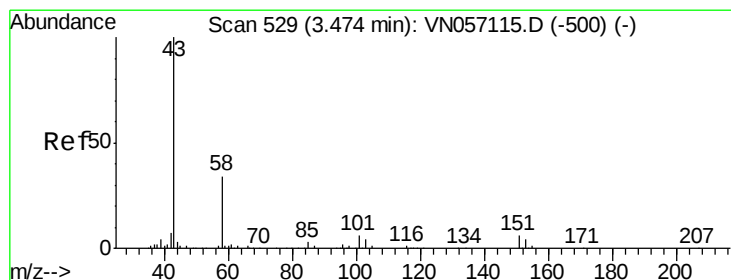
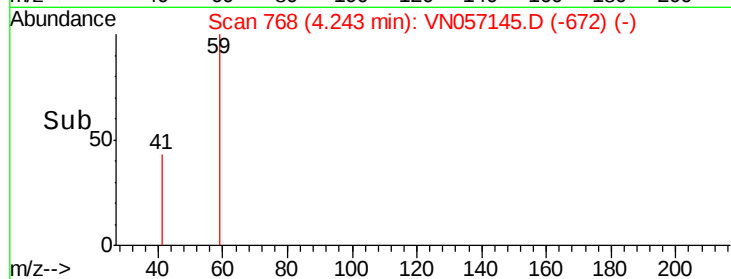
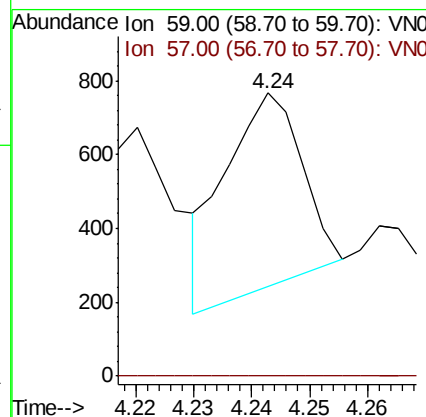
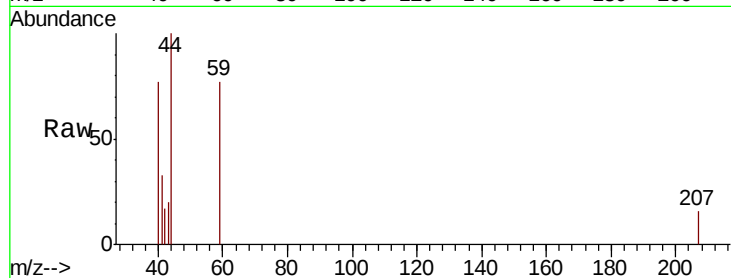




#11
Tert butyl alcohol
Concen: 0.247 ug/l
RT: 4.24 min Scan# 768
Delta R.T. 0.01 min
Lab File: VN057145.D
Acq: 9 Aug 2019 14:37

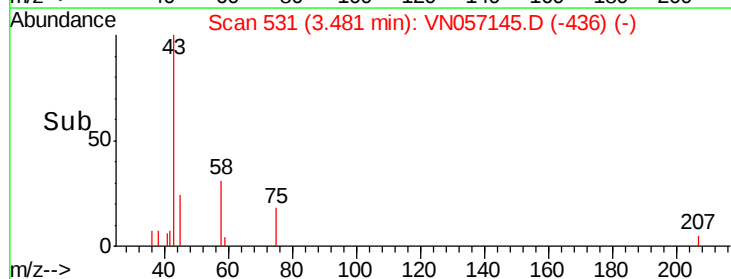
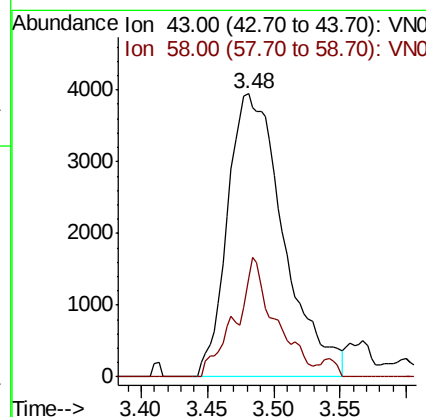
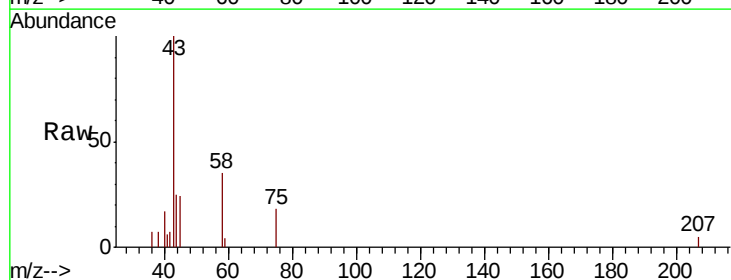
Instrument :
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STORAGE-BLANK-SAMPLE-MANA

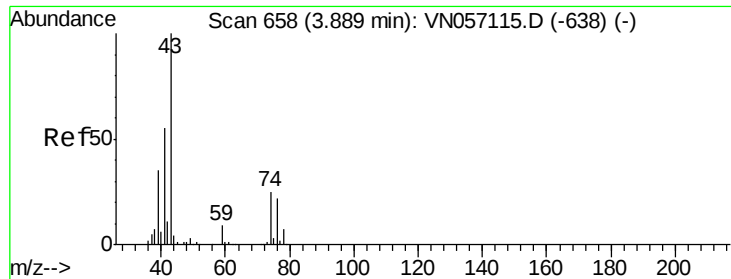
Tgt Ion: 59 Resp: 490
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 2.755 ug/l
RT: 3.48 min Scan# 531
Delta R.T. 0.01 min
Lab File: VN057145.D
Acq: 9 Aug 2019 14:37

Tgt Ion: 43 Resp: 11598
Ion Ratio Lower Upper
43 100
58 35.1 27.4 41.2

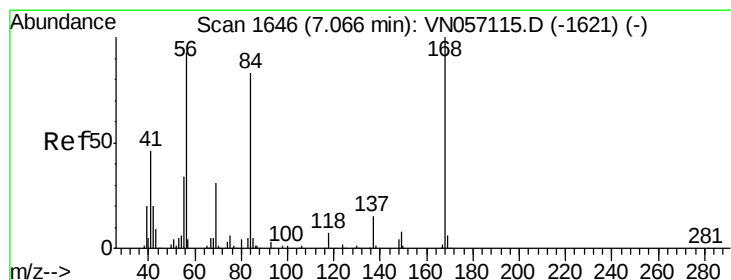
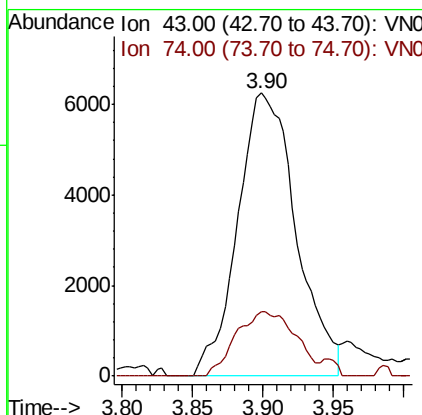
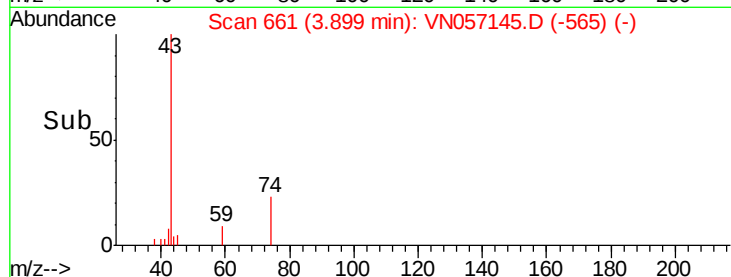
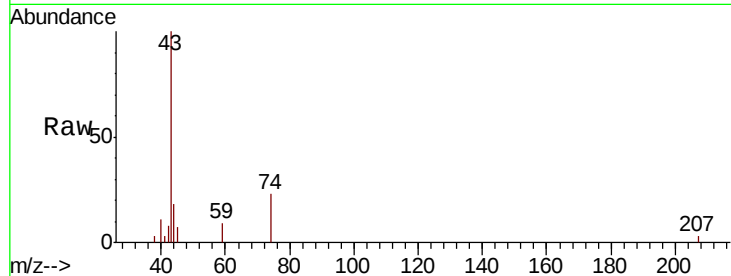




#18
Methyl Acetate
Concen: 0.802 ug/l
RT: 3.90 min Scan# 661
Delta R.T. 0.01 min
Lab File: VN057145.D
Acq: 9 Aug 2019 14:37

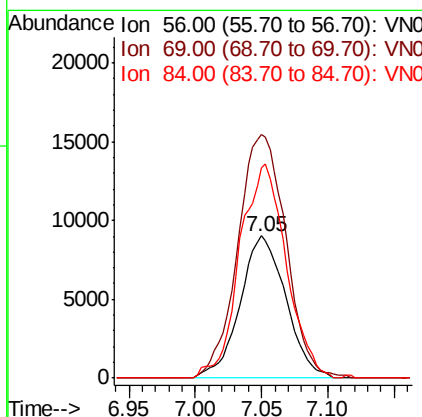
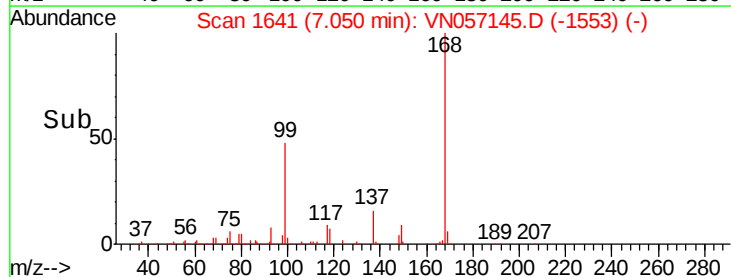
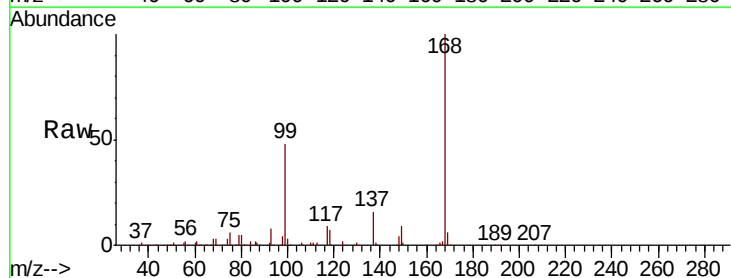
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANA

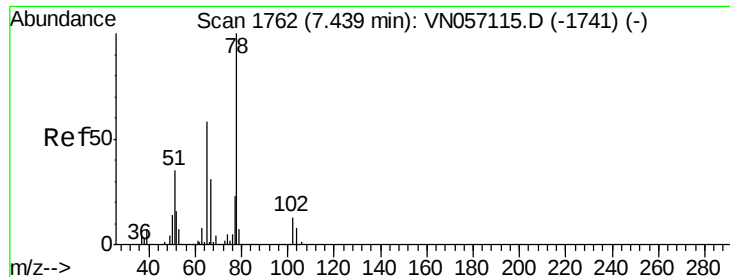
Tgt Ion: 43 Resp: 18172
Ion Ratio Lower Upper
43 100
74 22.9 20.2 30.4



#31
Cyclohexane
Concen: 1.076 ug/l
RT: 7.05 min Scan# 1641
Delta R.T. -0.02 min
Lab File: VN057145.D
Acq: 9 Aug 2019 14:37

Tgt Ion: 56 Resp: 21766
Ion Ratio Lower Upper
56 100
69 171.6 26.9 40.3#
84 148.4 71.9 107.9#





#33

1,2-Dichloroethane-d4

Concen: 45.648 ug/l

RT: 7.44 min Scan# 1762

Delta R.T. -0.00 min

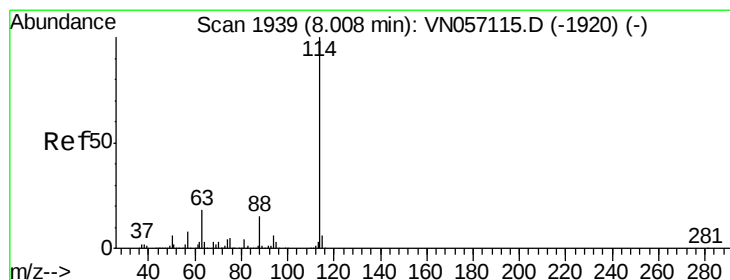
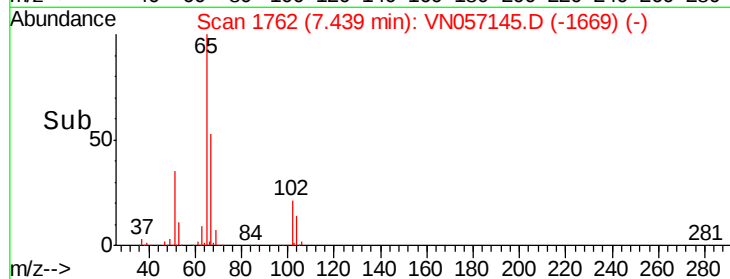
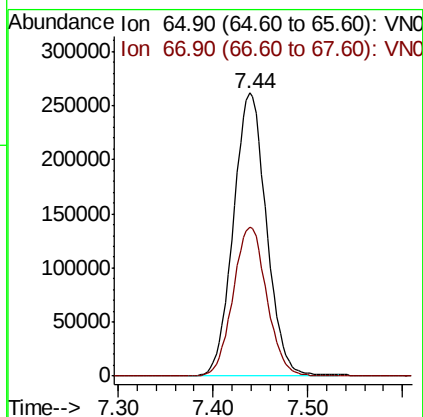
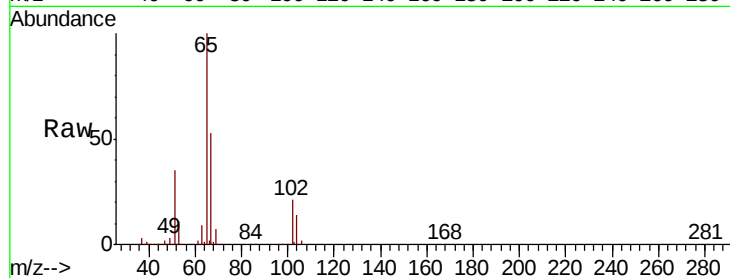
Lab File: VN057145.D

Acq: 9 Aug 2019 14:37

Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion: 65 Resp: 636347

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	108.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.01 min Scan# 1939

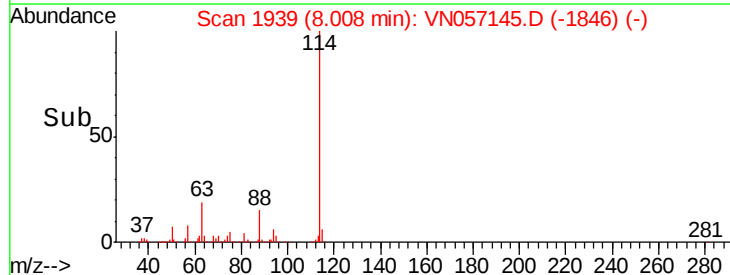
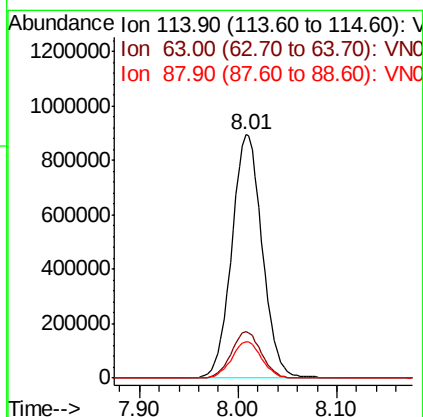
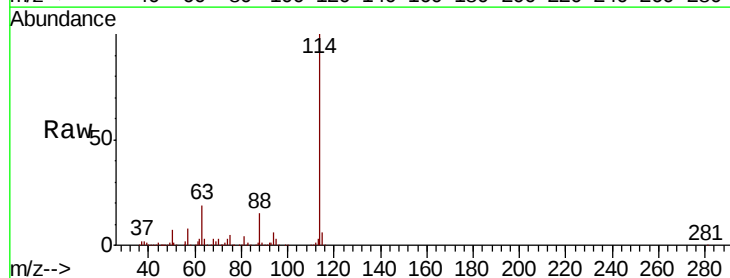
Delta R.T. -0.00 min

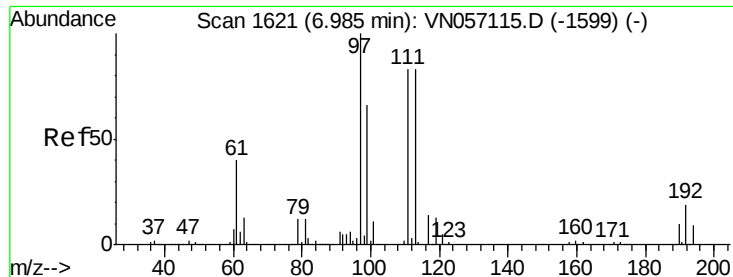
Lab File: VN057145.D

Acq: 9 Aug 2019 14:37

Tgt Ion: 114 Resp: 1921460

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	36.2
88	15.0	0.0	30.0

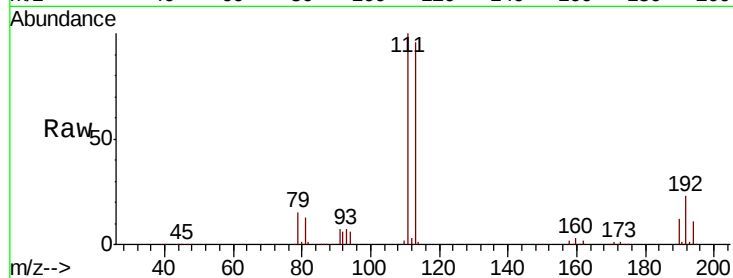




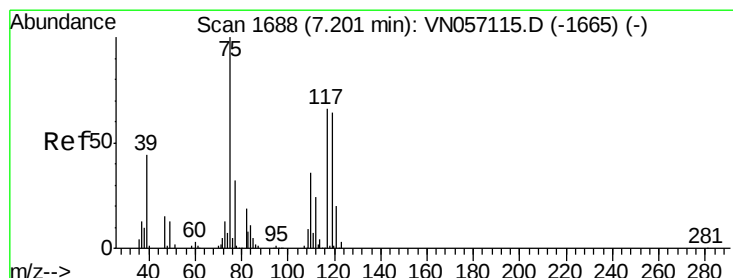
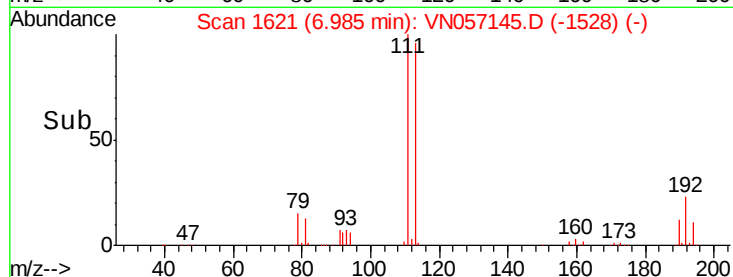
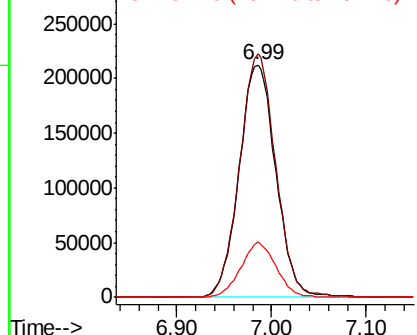
#35
 Dibromofluoromethane
 Concen: 47.520 ug/l
 RT: 6.99 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VN057145.D
 Acq: 9 Aug 2019 14:37

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SAMPLE-MANA

Tgt Ion: 113 Resp: 572971
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.3 121.9
 192 23.0 19.0 28.4

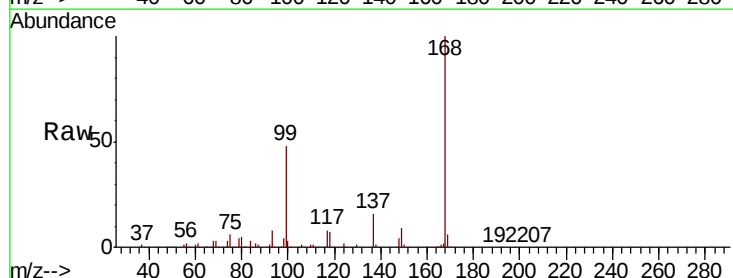


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

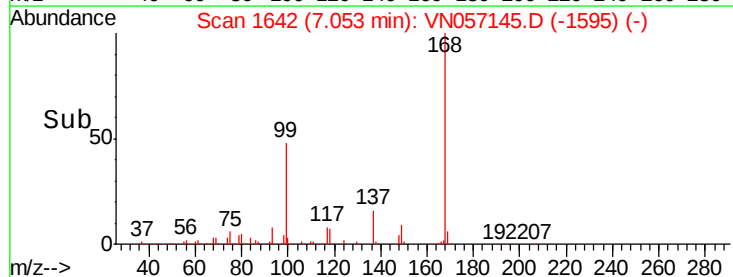
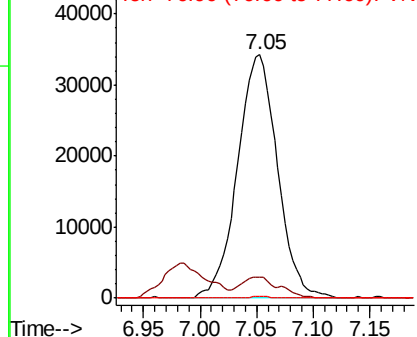


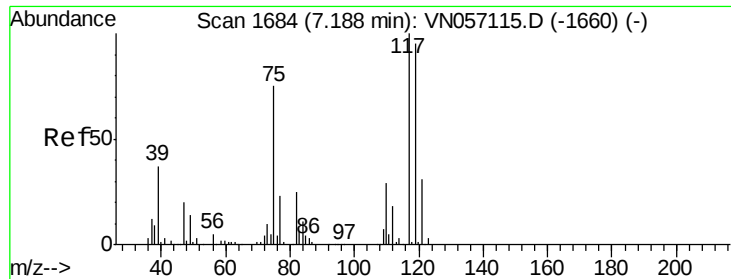
#36
 1,1-Dichloropropene
 Concen: 5.330 ug/l
 RT: 7.05 min Scan# 1642
 Delta R.T. -0.15 min
 Lab File: VN057145.D
 Acq: 9 Aug 2019 14:37

Tgt Ion: 75 Resp: 84322
 Ion Ratio Lower Upper
 75 100
 110 8.2 18.7 56.1#
 77 0.2 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: 6.959 ug/l

RT: 7.05 min Scan# 1641

Delta R.T. -0.14 min

Lab File: VN057145.D

Acq: 9 Aug 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

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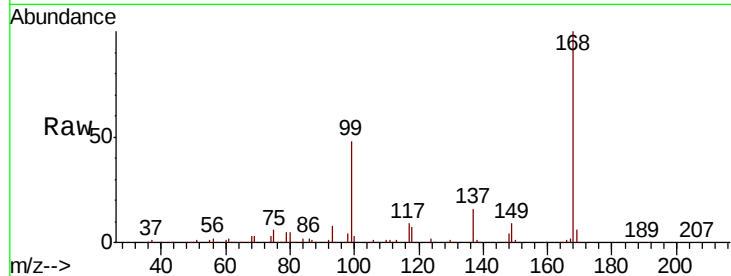
Tgt Ion:117 Resp: 114731

Ion Ratio Lower Upper

117 100

119 3.7 75.8 113.6#

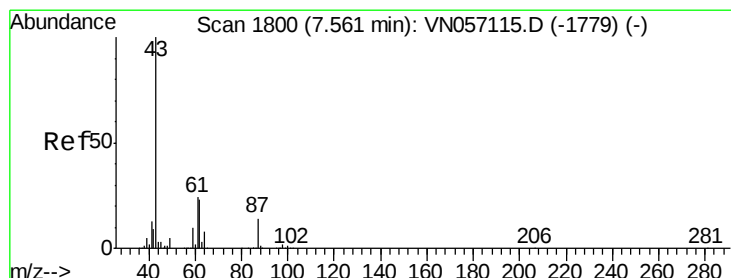
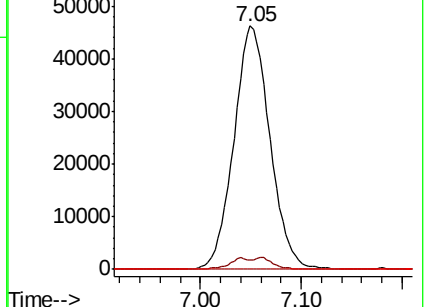
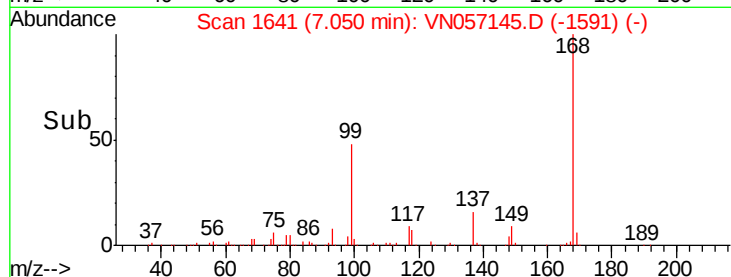
121 0.0 24.4 36.6#



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



#43

Isopropyl Acetate

Concen: 0.351 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.06 min

Lab File: VN057145.D

Acq: 9 Aug 2019 14:37

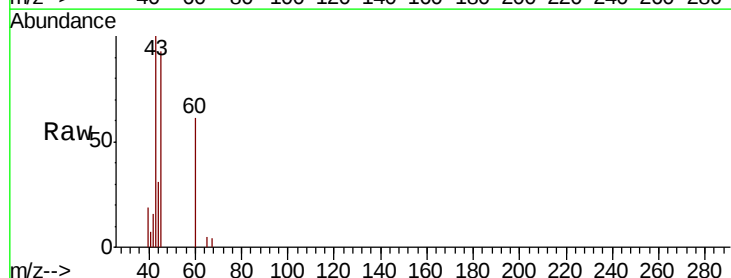
Tgt Ion: 43 Resp: 7801

Ion Ratio Lower Upper

43 100

61 0.0 24.2 36.2#

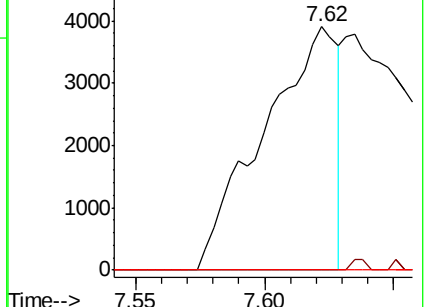
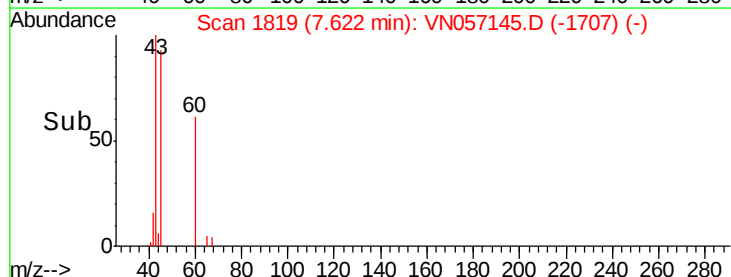
87 0.0 11.8 17.8#

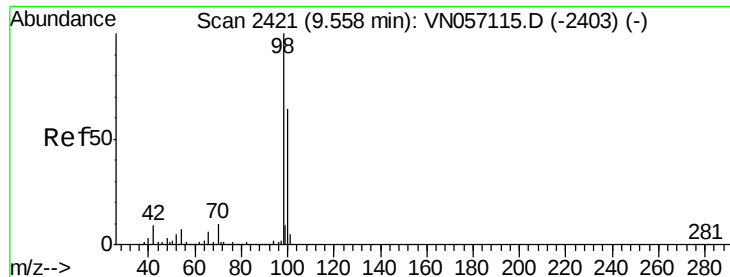


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

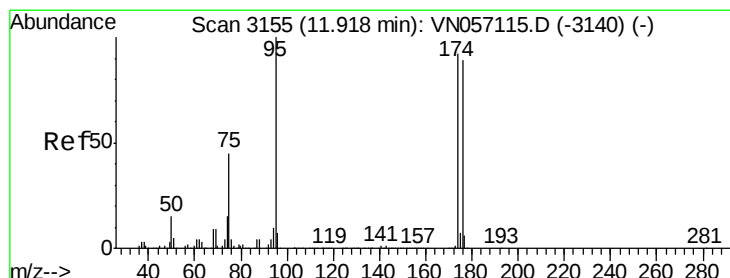
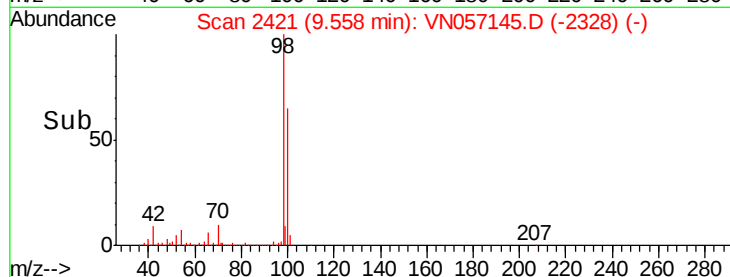
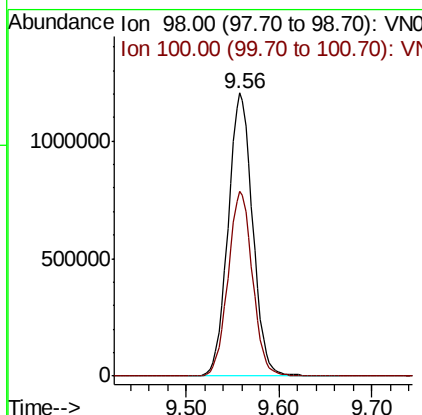
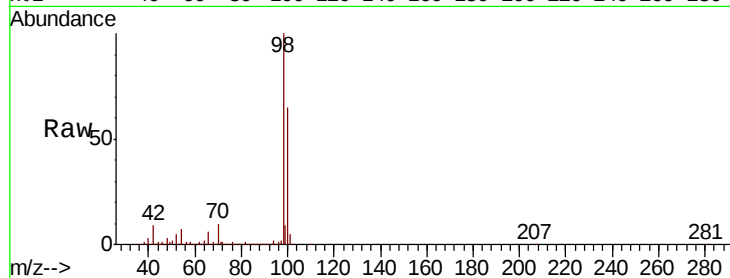




#50
Toluene-d8
Concen: 47.746 ug/l
RT: 9.56 min Scan# 2421
Delta R.T. -0.00 min
Lab File: VN057145.D
Acq: 9 Aug 2019 14:37

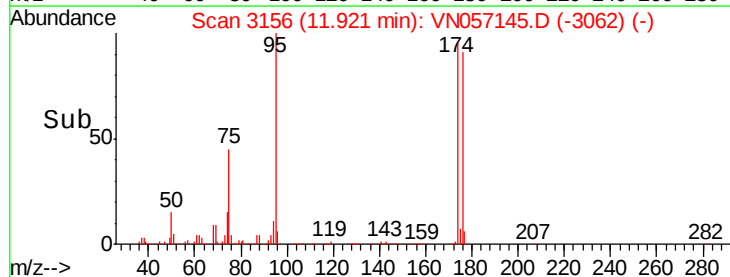
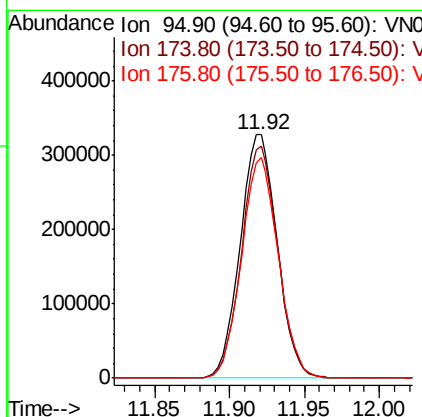
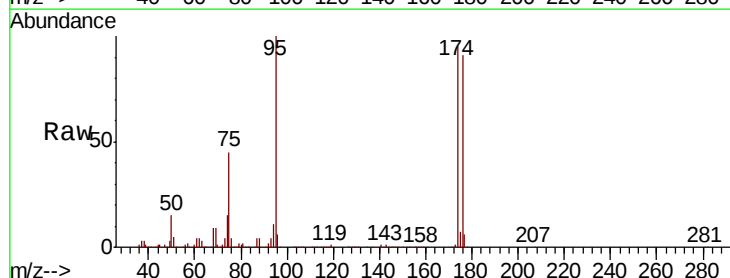
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANA

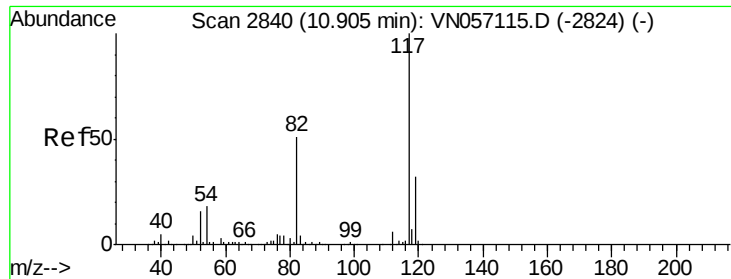
Tgt Ion: 98 Resp: 2202511
Ion Ratio Lower Upper
98 100
100 65.2 51.2 76.8



#62
4-Bromofluorobenzene
Concen: 37.919 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN057145.D
Acq: 9 Aug 2019 14:37

Tgt Ion: 95 Resp: 563598
Ion Ratio Lower Upper
95 100
174 93.6 0.0 185.0
176 90.2 0.0 181.2

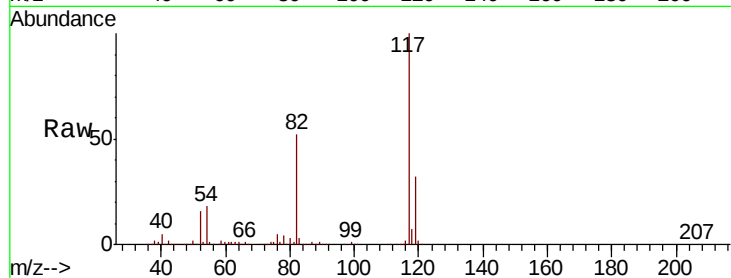




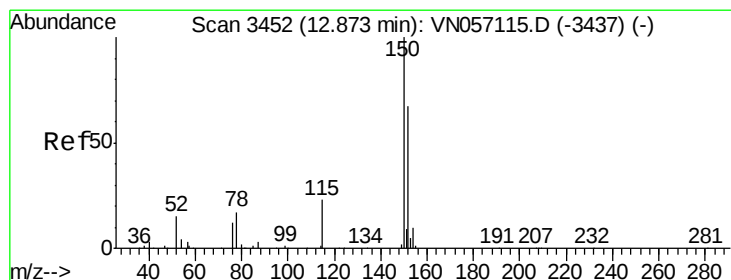
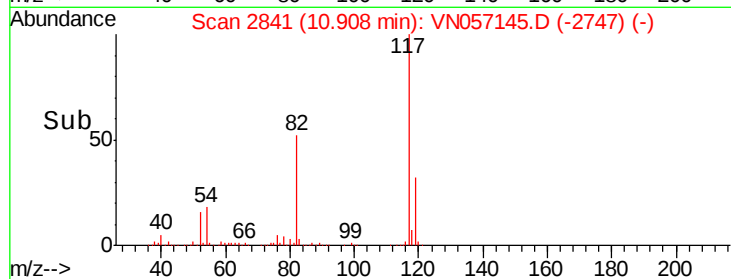
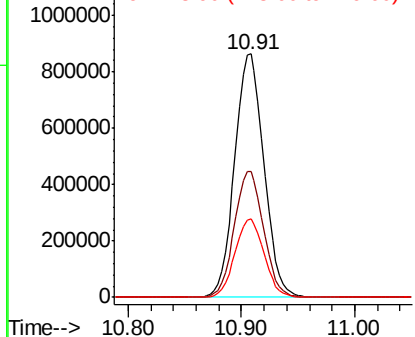
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.91 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VN057145.D
Acq: 9 Aug 2019 14:37

Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion:117 Resp: 1558220
Ion Ratio Lower Upper
117 100
82 51.7 40.8 61.2
119 32.3 25.7 38.5

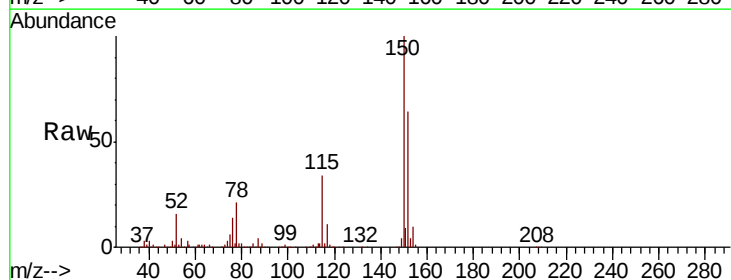


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

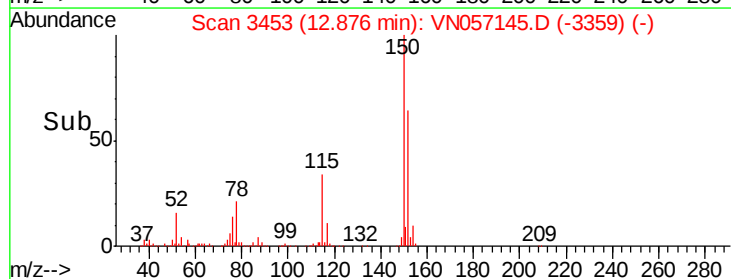
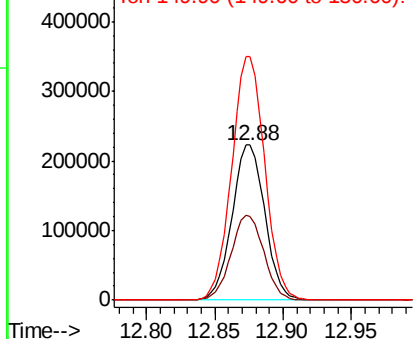


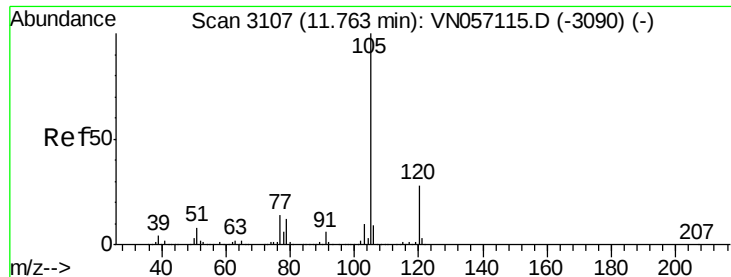
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.88 min Scan# 3453
Delta R.T. 0.00 min
Lab File: VN057145.D
Acq: 9 Aug 2019 14:37

Tgt Ion:152 Resp: 372873
Ion Ratio Lower Upper
152 100
115 54.5 27.5 82.5
150 157.9 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# 3106

Delta R.T. -0.00 min

Lab File: VN057145.D

Acq: 9 Aug 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

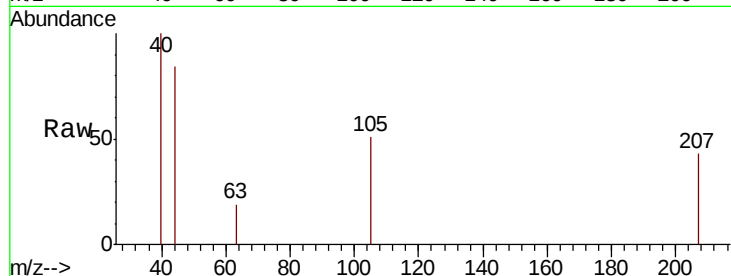
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion: 105 Resp: 567

Ion Ratio Lower Upper

105 100

120 0.0 13.7 41.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.76

400

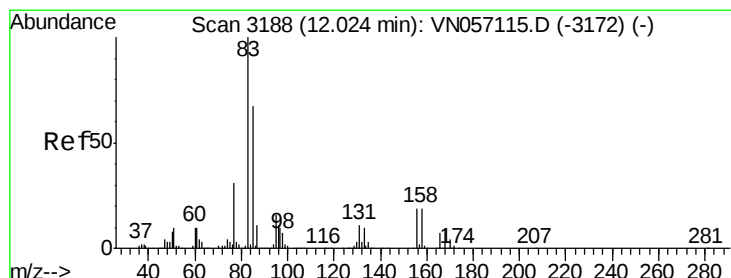
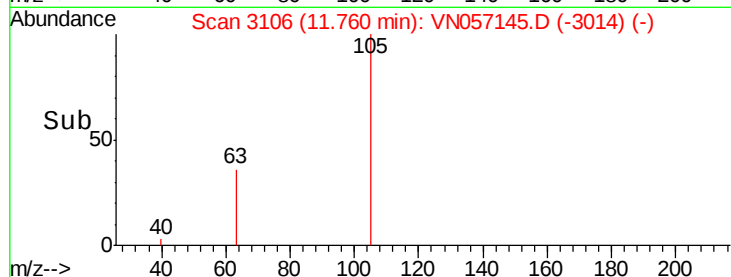
300

200

100

0

Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.91 min Scan# 3154

Delta R.T. -0.11 min

Lab File: VN057145.D

Acq: 9 Aug 2019 14:37

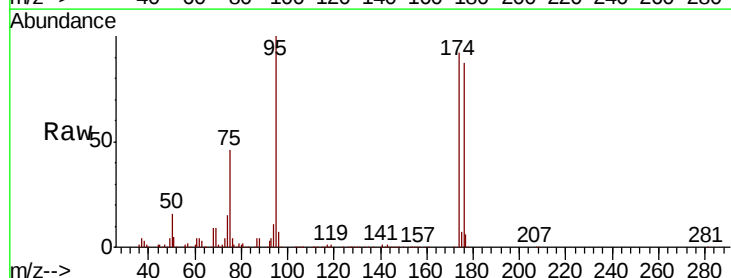
Tgt Ion: 83 Resp: 184

Ion Ratio Lower Upper

83 100

131 437.5 5.5 16.4#

85 0.0 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

800

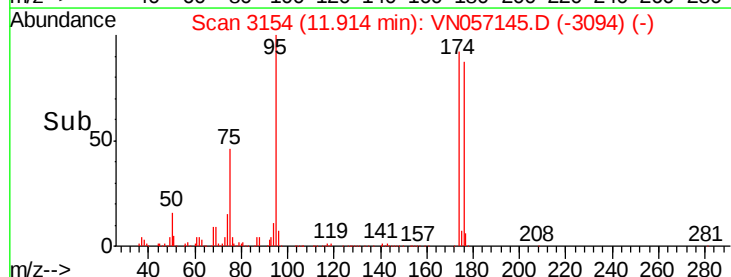
600

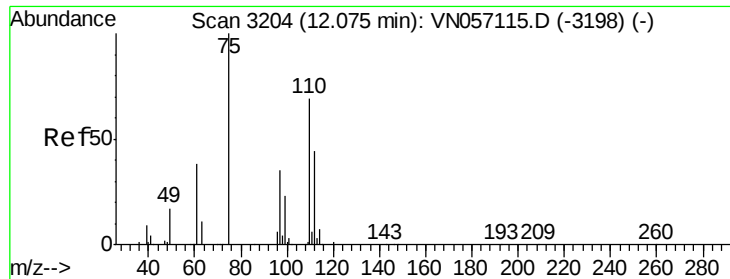
400

200

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 34.237 ug/l

RT: 11.92 min Scan# 3155

Delta R.T. -0.16 min

Lab File: VN057145.D

Acq: 9 Aug 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

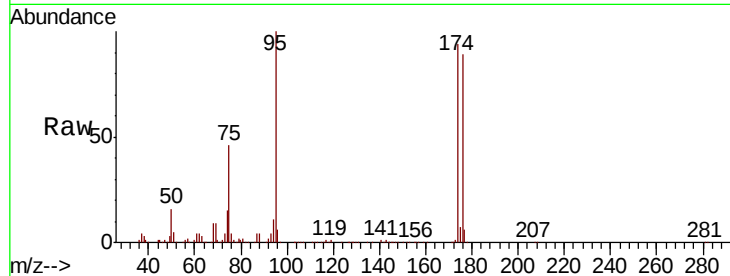
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion: 75 Resp: 255968

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

150000

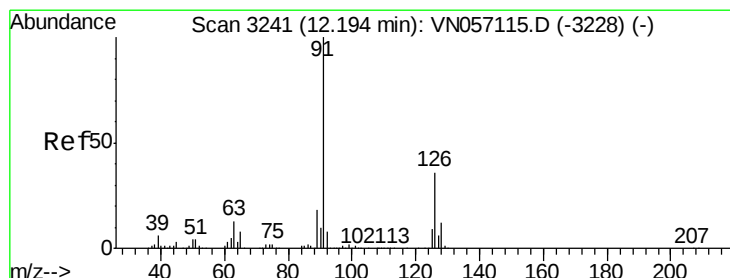
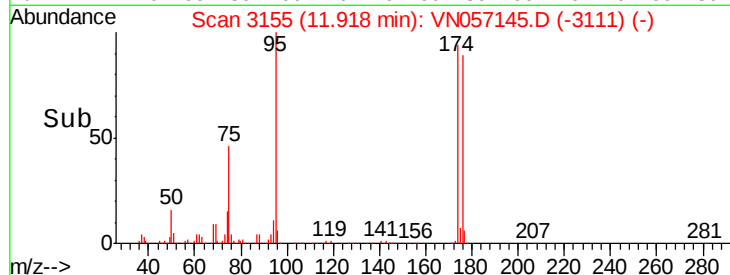
100000

50000

0

11.85 11.90 11.95 12.00

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.20 min Scan# 3242

Delta R.T. 0.00 min

Lab File: VN057145.D

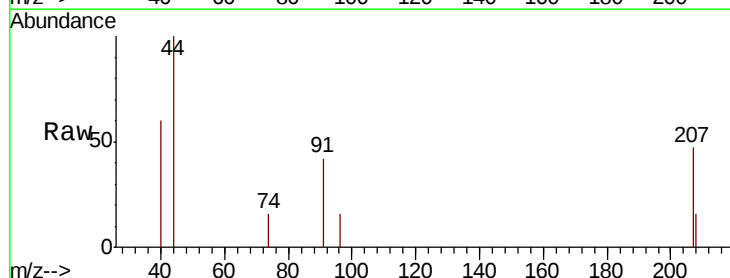
Acq: 9 Aug 2019 14:37

Tgt Ion: 91 Resp: 465

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.3#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

500

400

300

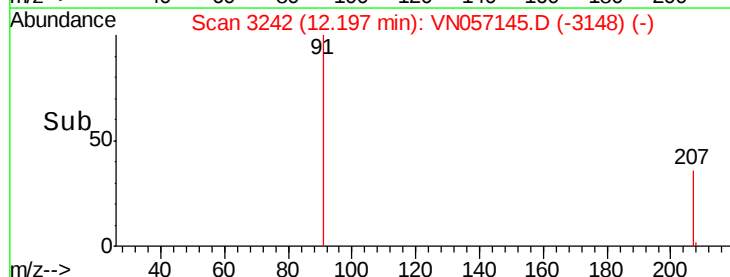
200

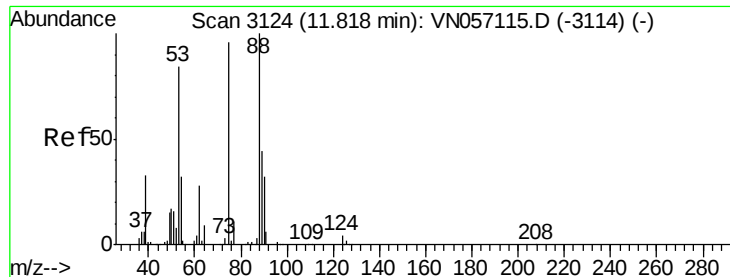
100

0

12.18 12.20 12.22

Time-->

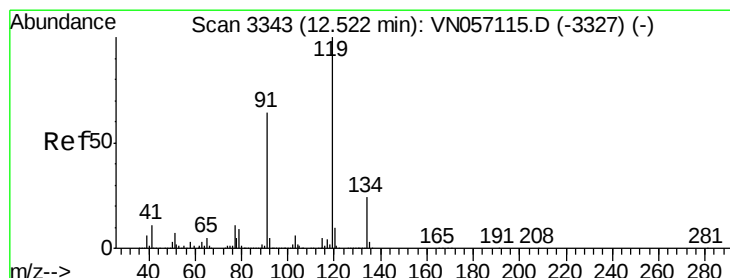
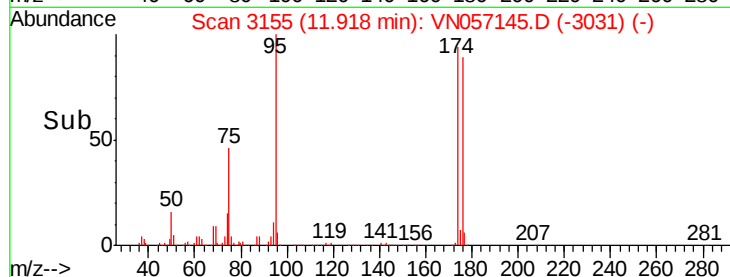
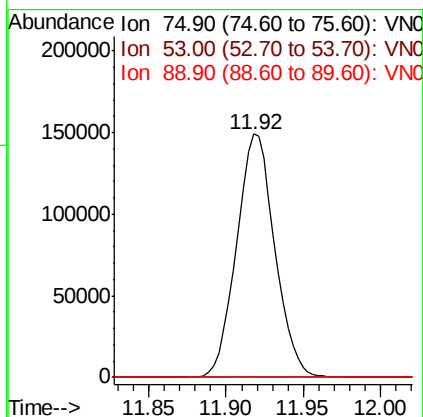
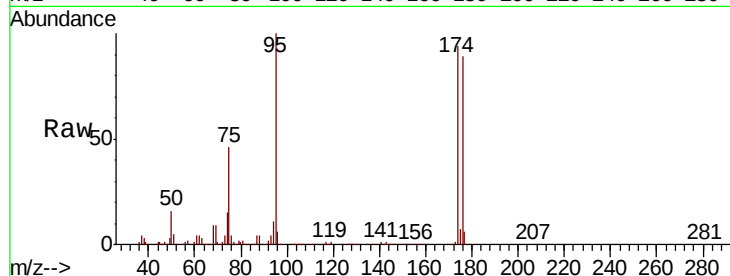




#81
 trans-1,4-Dichloro-2-butene
 Concen: 100.936 ug/l
 RT: 11.92 min Scan# 3155
 Delta R.T. 0.10 min
 Lab File: VN057145.D
 Acq: 9 Aug 2019 14:37

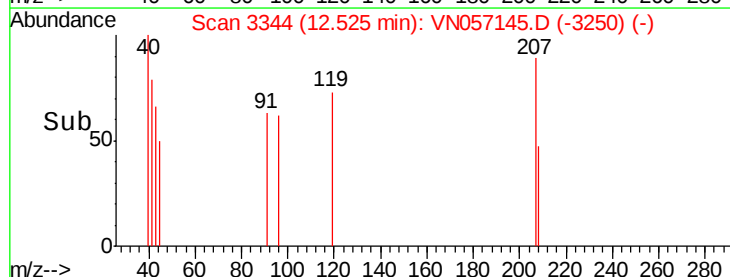
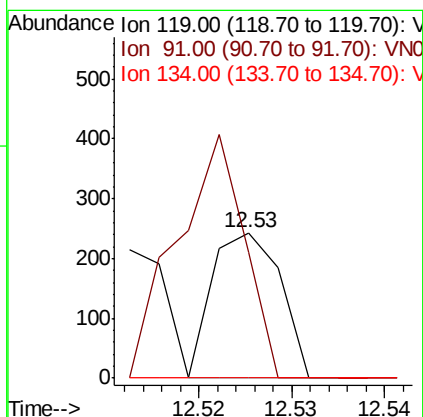
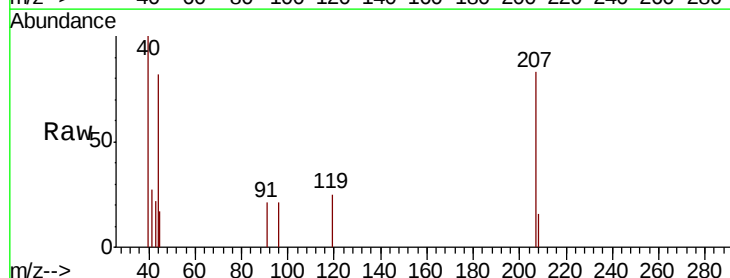
Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SAMPLE-MANA

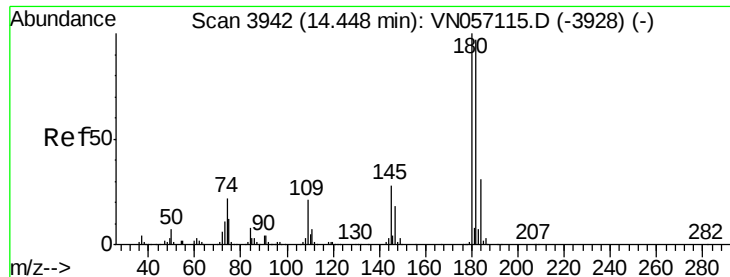
Tgt Ion: 75 Resp: 255968
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.6 106.0#
 89 0.0 36.4 54.6#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.53 min Scan# 3344
 Delta R.T. 0.00 min
 Lab File: VN057145.D
 Acq: 9 Aug 2019 14:37

Tgt Ion: 119 Resp: 124
 Ion Ratio Lower Upper
 119 100
 91 166.1 31.4 94.2#
 134 0.0 13.2 39.6#

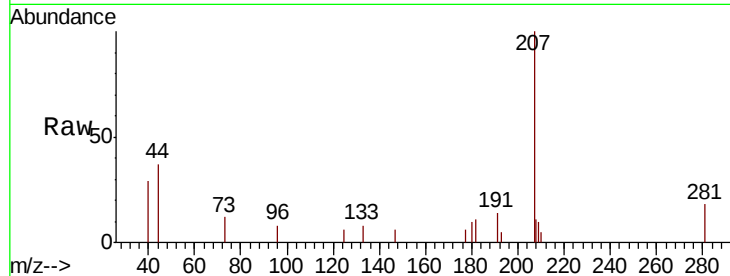




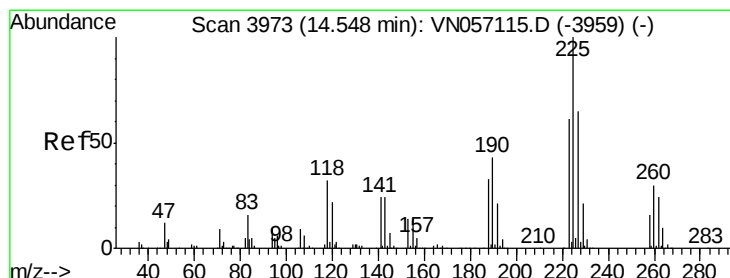
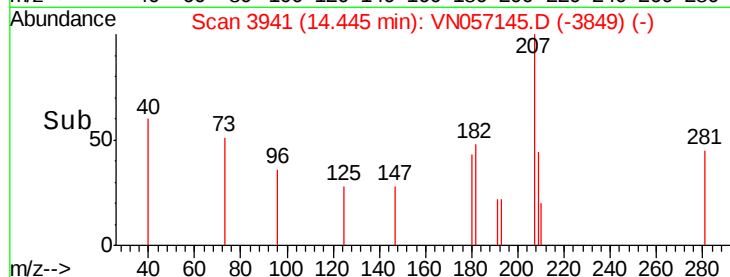
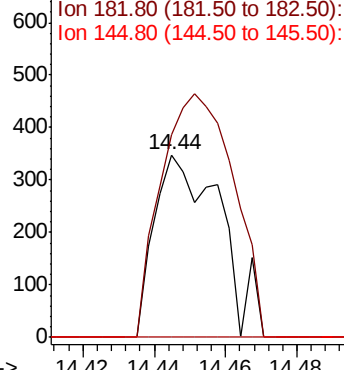
#93
 1,2,4-Trichlorobenzene
 Concen: 6.003 ug/l
 RT: 14.44 min Scan# 3941
 Delta R.T. -0.00 min
 Lab File: VN057145.D
 Acq: 9 Aug 2019 14:37

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SAMPLE-MANA

Tgt Ion:180 Resp: 445
 Ion Ratio Lower Upper
 180 100
 182 146.5 47.5 142.6#
 145 0.0 14.1 42.2#

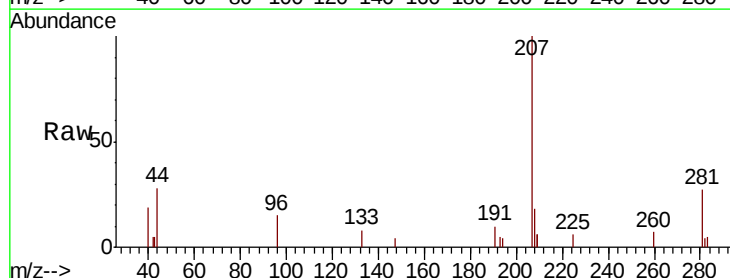


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

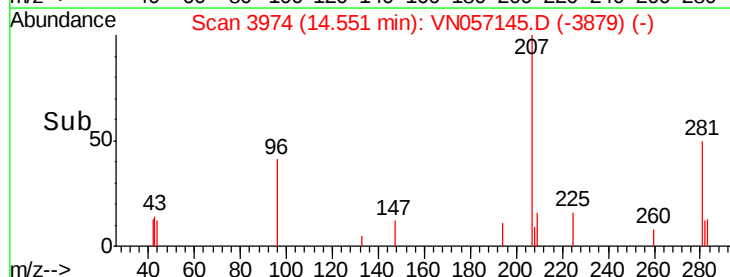
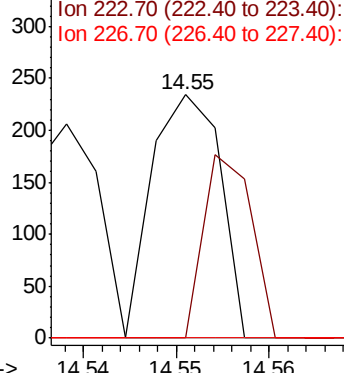


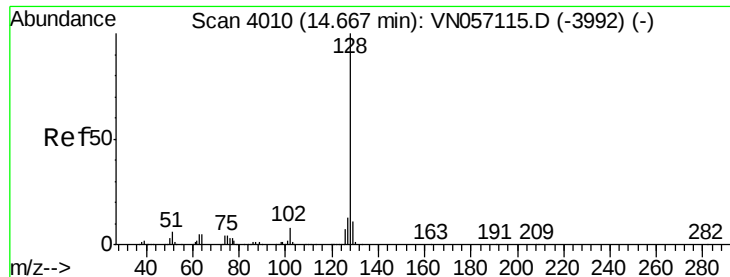
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 14.55 min Scan# 3974
 Delta R.T. 0.00 min
 Lab File: VN057145.D
 Acq: 9 Aug 2019 14:37

Tgt Ion:225 Resp: 121
 Ion Ratio Lower Upper
 225 100
 223 52.1 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: 2.850 ug/l

RT: 14.67 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VN057145.D

Acq: 9 Aug 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

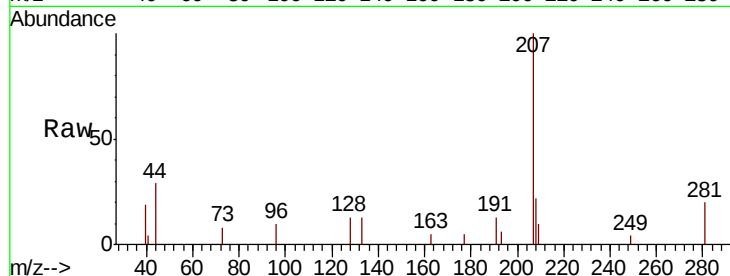
Tgt Ion:128 Resp: 459

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

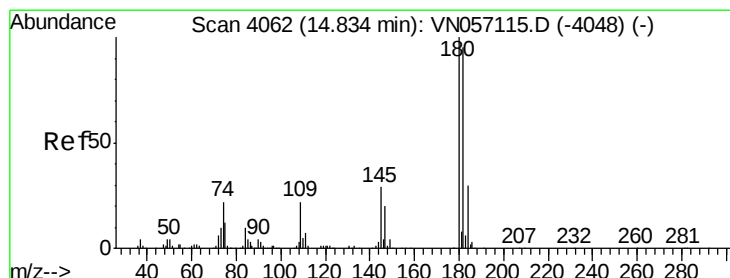
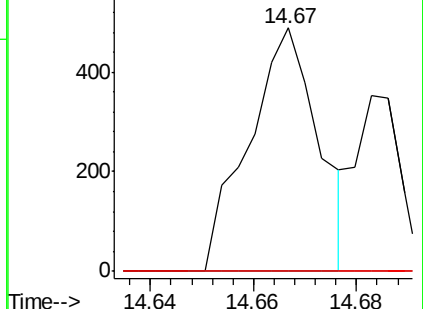
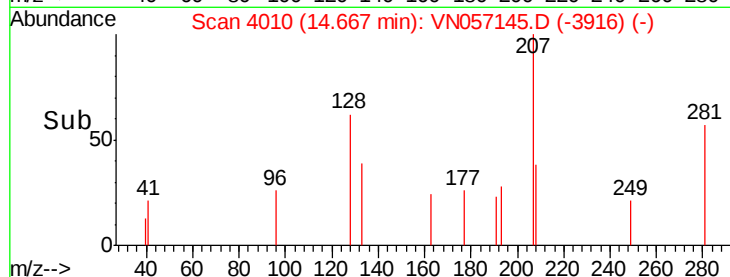
129 0.0 8.8 13.2#



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: 5.792 ug/l

RT: 14.84 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VN057145.D

Acq: 9 Aug 2019 14:37

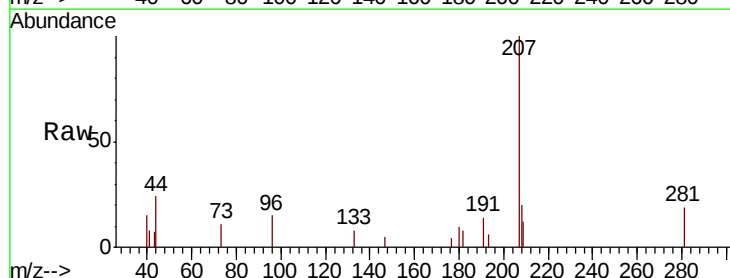
Tgt Ion:180 Resp: 445

Ion Ratio Lower Upper

180 100

182 107.0 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

