

Data File : VN057410.D
Acq On : 19 Aug 2019 19:10
Operator : JC/SP
Sample : K4389-14
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
T4-F-(2)

Quant Time: Aug 20 07:15:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081519W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 15 11:33:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	987507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1399085	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	1169742	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	312193	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	468519	43.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.28%	
35) Dibromofluoromethane	7.58	113	427122	46.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.14%	
50) Toluene-d8	10.09	98	1613341	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	
62) 4-Bromofluorobenzene	12.40	95	423915	35.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.52%	

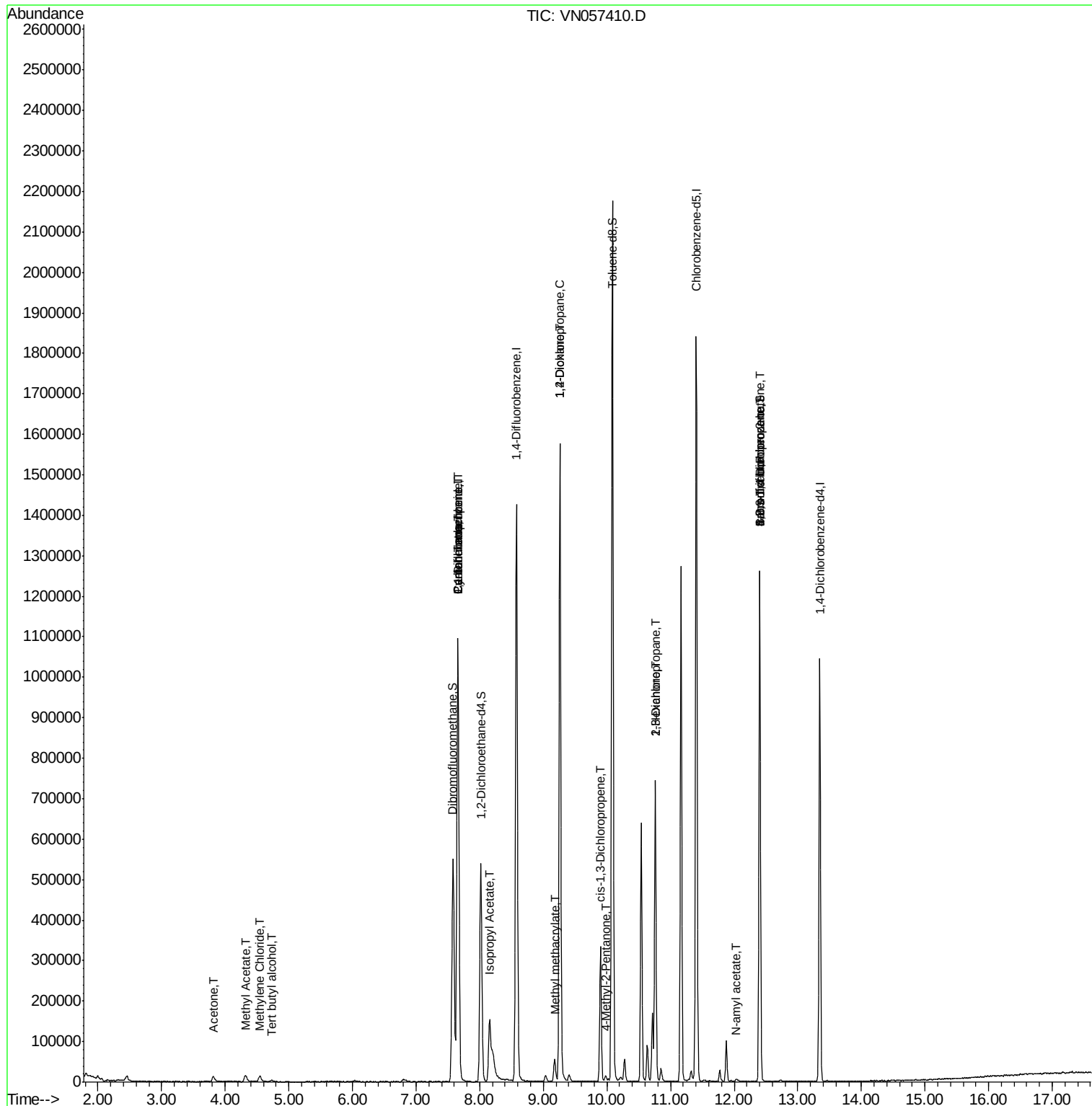
Target Compounds						Qvalue
11) Tert butyl alcohol	4.73	59	1112	0.729	ug/l #	73
16) Acetone	3.81	43	20638	5.542	ug/l	91
18) Methyl Acetate	4.32	43	32240	0.862	ug/l	99
20) Methylene Chloride	4.55	84	11212	1.076	ug/l	99
31) Cyclohexane	7.66	56	14269	0.975	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	58592	4.743	ug/l #	48
38) Carbon Tetrachloride	7.66	117	81157	6.323	ug/l #	16
43) Isopropyl Acetate	8.16	43	263865	13.436	ug/l #	74
45) 1,2-Dichloropropane	9.26	63	2070	0.213	ug/l #	44
48) Methyl methacrylate	9.17	41	7767	0.932	ug/l #	11
49) 1,4-Dioxane	9.26	88	136	0.776	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	10268	0.984	ug/l	89
54) cis-1,3-Dichloropropene	9.90	75	67478	4.395	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	8709	0.564	ug/l #	43
59) 2-Hexanone	10.76	43	102408	13.647	ug/l #	51
71) Bromoform	12.40	173	2181	0.303	ug/l #	1
73) Isopropylbenzene	12.40	105	345	Below Cal	#	49
74) N-amyl acetate	12.03	43	2948	0.325	ug/l #	50
75) 1,1,2,2-Tetrachloroethane	12.40	83	68	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	200271	31.905	ug/l #	100
79) 2-Chlorotoluene	12.40	91	1422	Below Cal	#	42
80) 1,3,5-Trimethylbenzene	12.73	105	1320	Below Cal		94
81) trans-1,4-Dichloro-2-buten	12.40	75	200271	78.223	ug/l #	15
95) Naphthalene	15.12	128	150	Below Cal	#	69

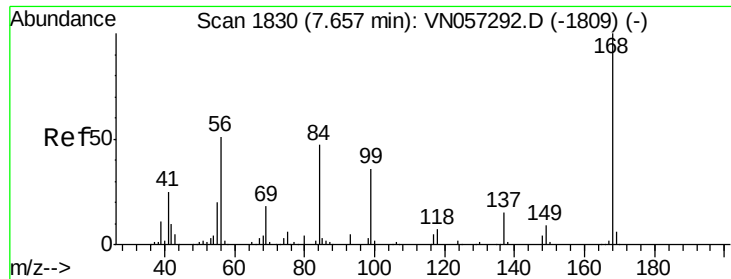
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Aug 15 11:33:14 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

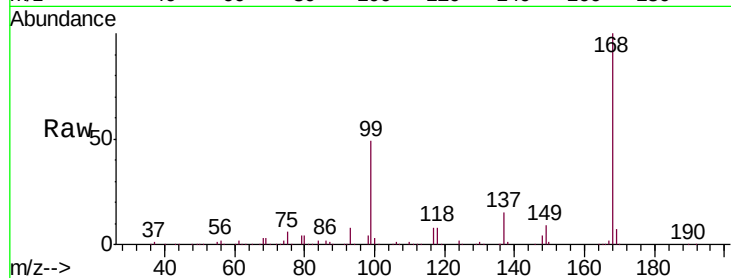
T4-F-(2)

Tgt Ion:168 Resp: 987507

Ion Ratio Lower Upper

168 100

99 48.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): VN057292.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057292.D (-1809) (-)

7.66

400000

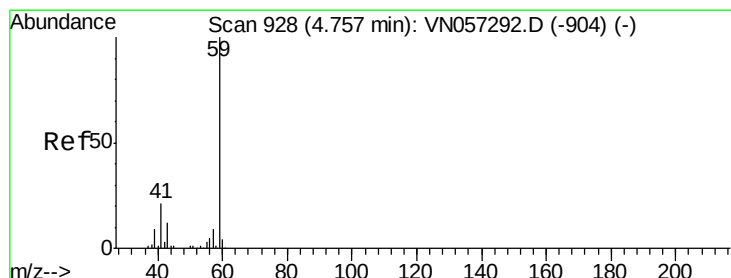
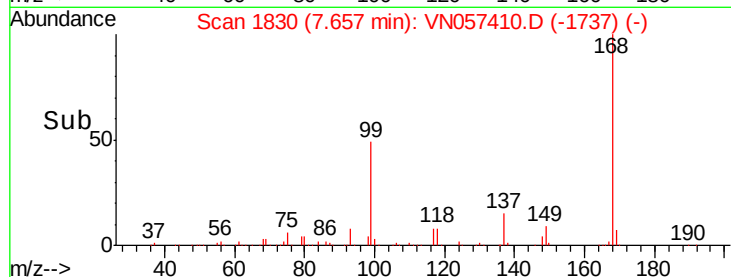
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.729 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.03 min

Lab File: VN057410.D

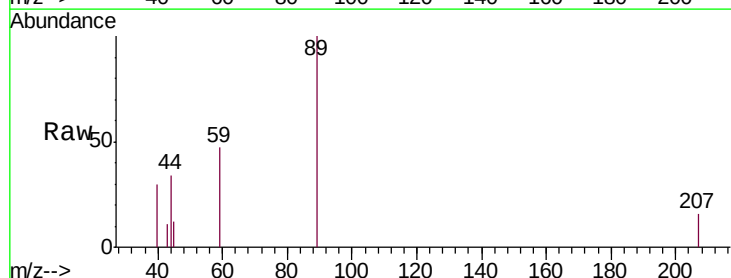
Acq: 19 Aug 2019 19:10

Tgt Ion: 59 Resp: 1112

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN057292.D (-904) (-)

Ion 57.00 (56.70 to 57.70): VN057292.D (-904) (-)

4.73

800

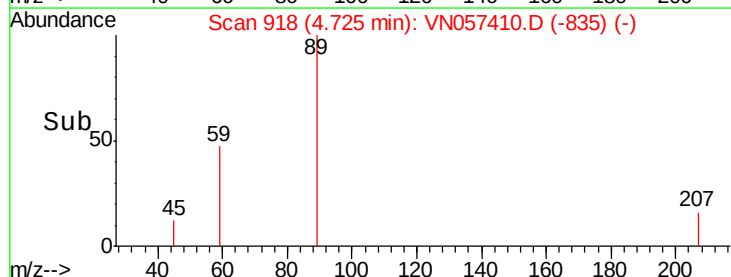
600

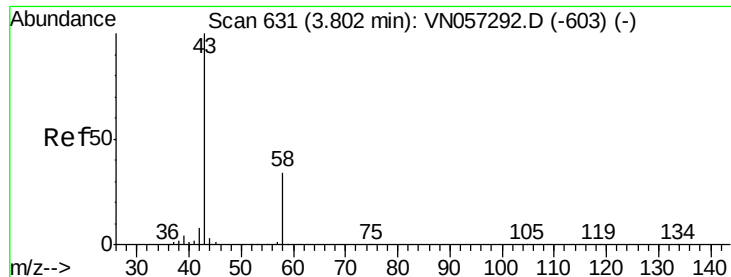
400

200

0

Time-->





#16

Acetone

Concen: 5.542 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

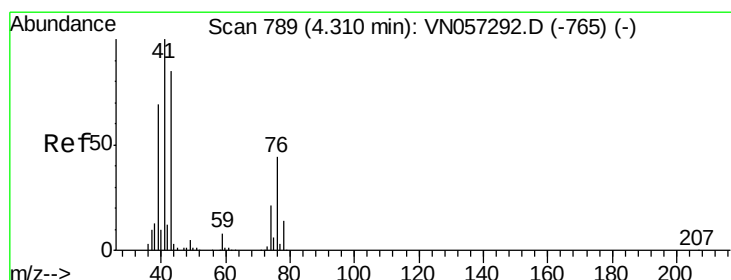
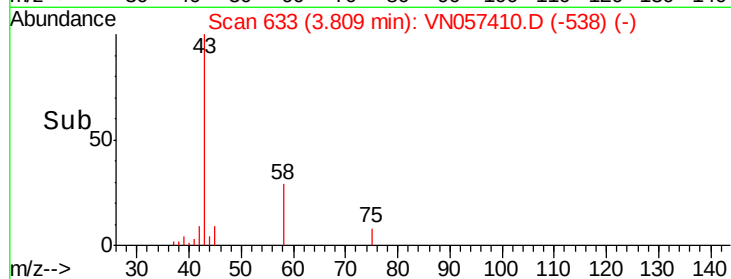
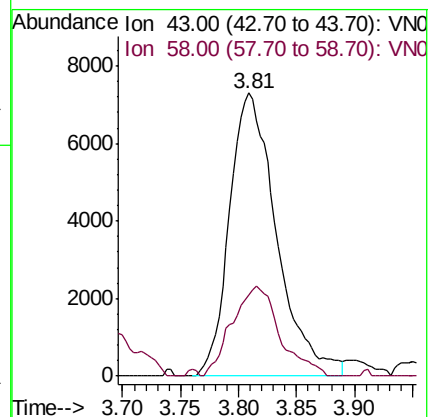
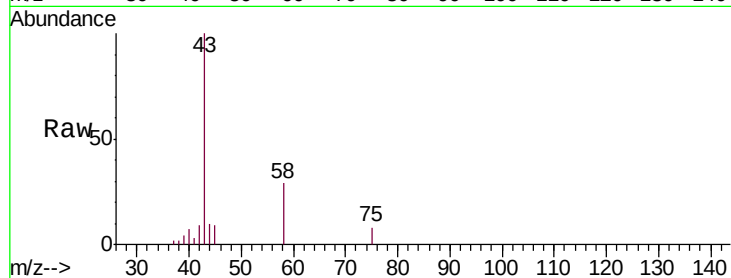
T4-F-(2)

Tgt Ion: 43 Resp: 20638

Ion Ratio Lower Upper

43 100

58 28.7 27.0 40.6



#18

Methyl Acetate

Concen: 0.862 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN057410.D

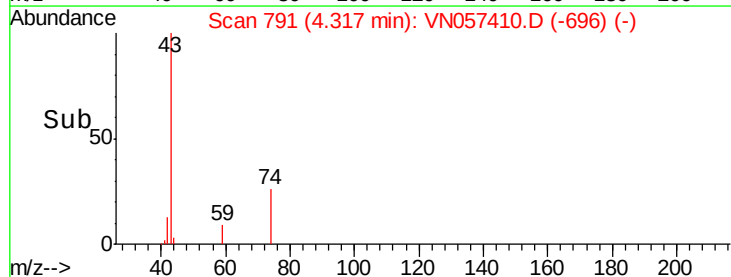
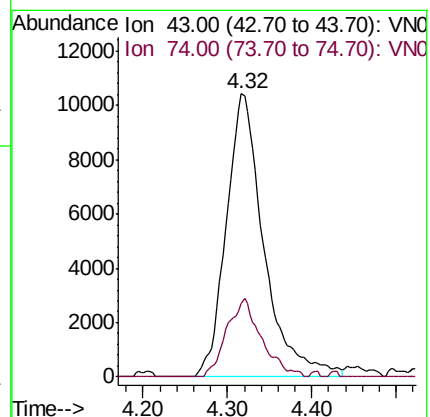
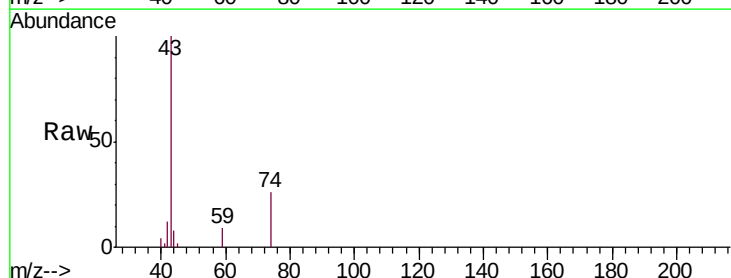
Acq: 19 Aug 2019 19:10

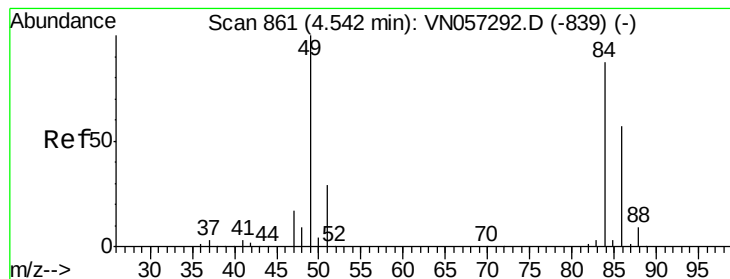
Tgt Ion: 43 Resp: 32240

Ion Ratio Lower Upper

43 100

74 25.6 20.2 30.2





#20

Methylene Chloride

Concen: 1.076 ug/l

RT: 4.55 min Scan# 862

Delta R.T. 0.00 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

T4-F-(2)

Tgt Ion: 84 Resp: 11212

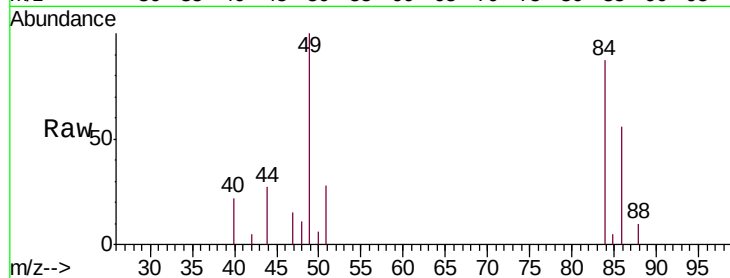
Ion Ratio Lower Upper

84 100

49 114.8 92.0 138.0

51 32.0 27.1 40.7

86 64.8 52.2 78.2

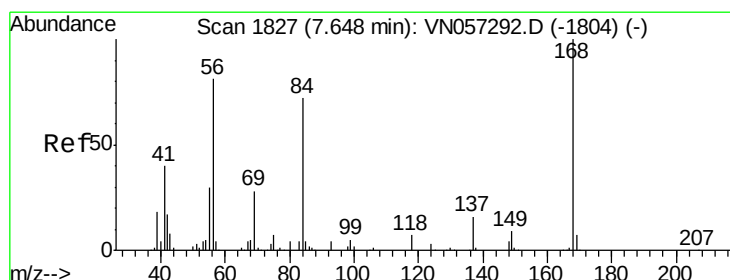
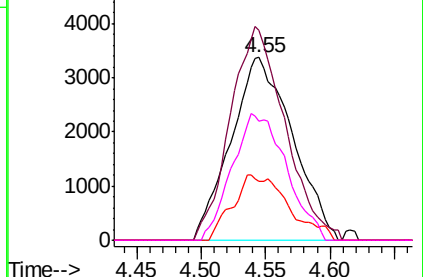
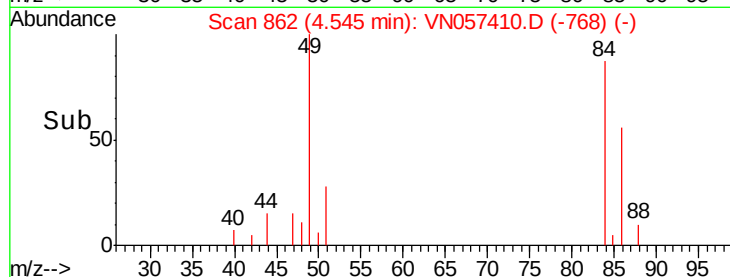


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#31

Cyclohexane

Concen: 0.975 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

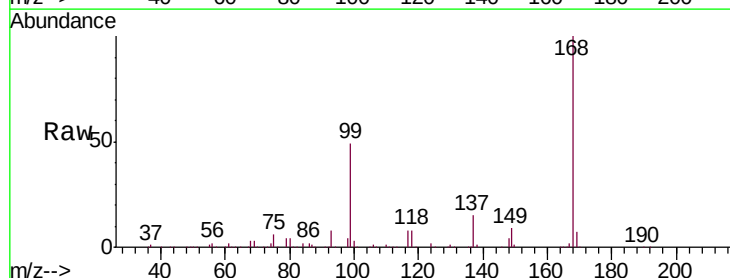
Tgt Ion: 56 Resp: 14269

Ion Ratio Lower Upper

56 100

69 189.1 27.3 40.9#

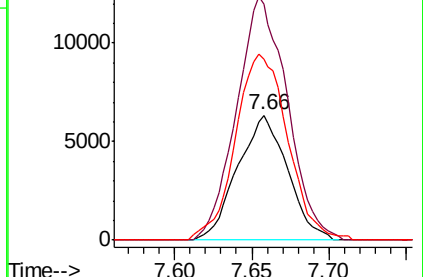
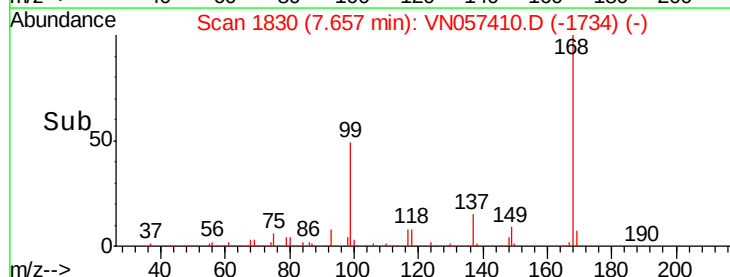
84 145.5 71.0 106.6#

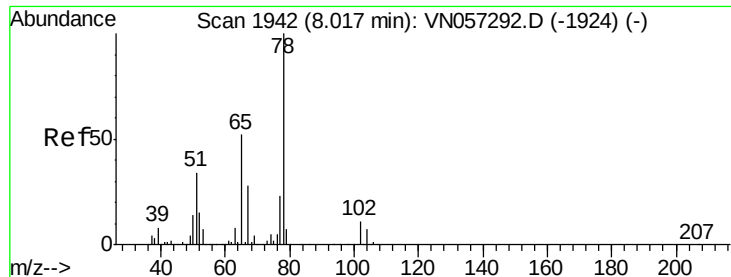


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

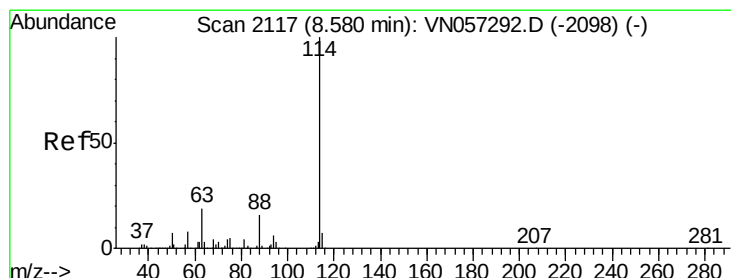
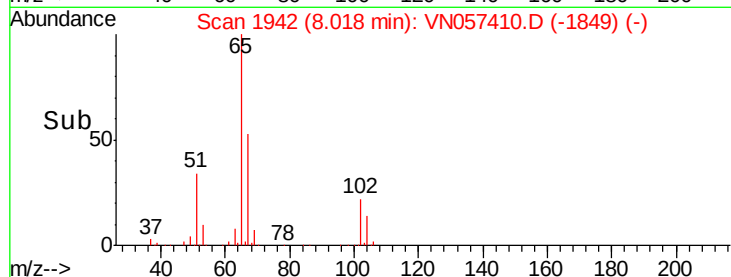
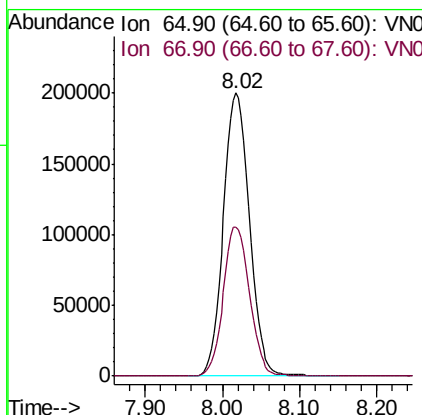
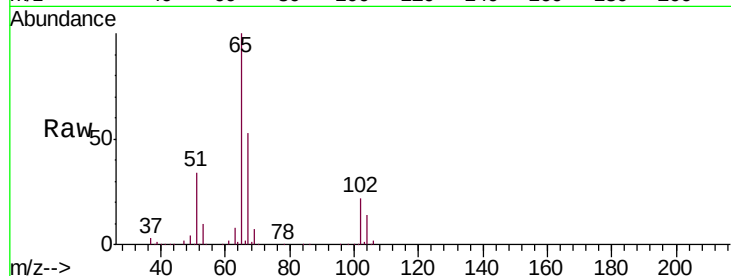




#33
 1,2-Dichloroethane-d4
 Concen: 43.643 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.00 min
 Lab File: VN057410.D
 Acq: 19 Aug 2019 19:10

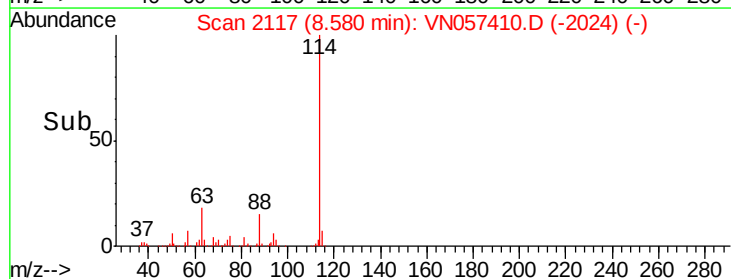
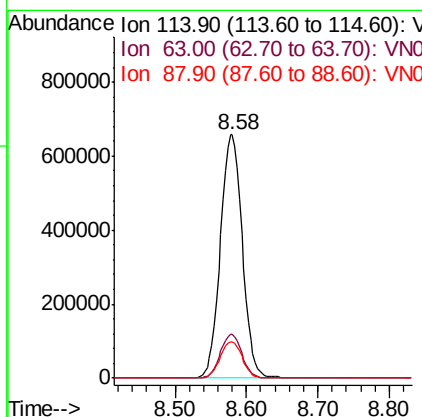
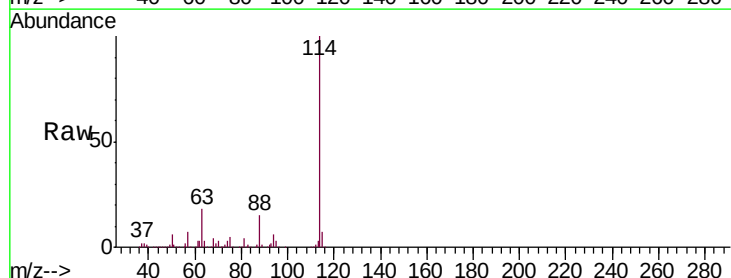
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-F-(2)

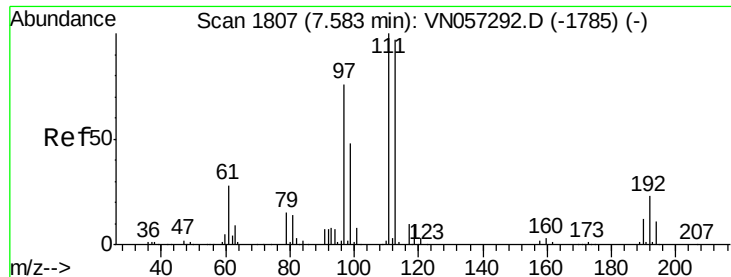
Tgt Ion: 65 Resp: 468519
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2117
 Delta R.T. 0.00 min
 Lab File: VN057410.D
 Acq: 19 Aug 2019 19:10

Tgt Ion: 114 Resp: 1399085
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 38.8
 88 15.1 0.0 31.4

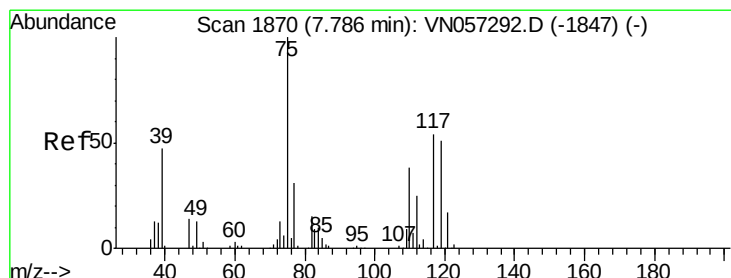
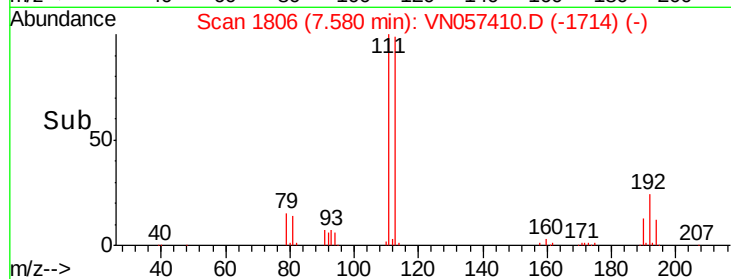
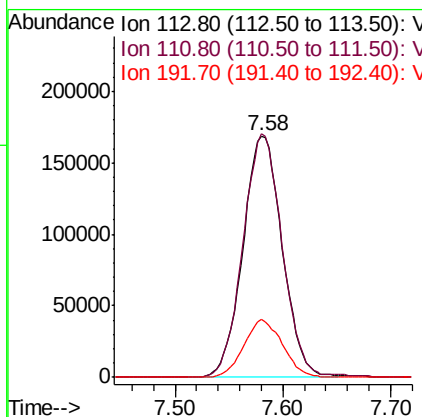
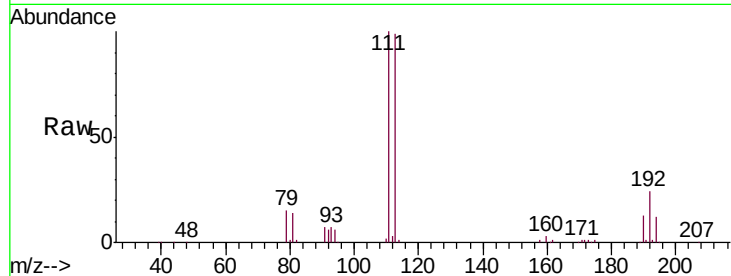




#35
 Dibromofluoromethane
 Concen: 46.572 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN057410.D
 Acq: 19 Aug 2019 19:10

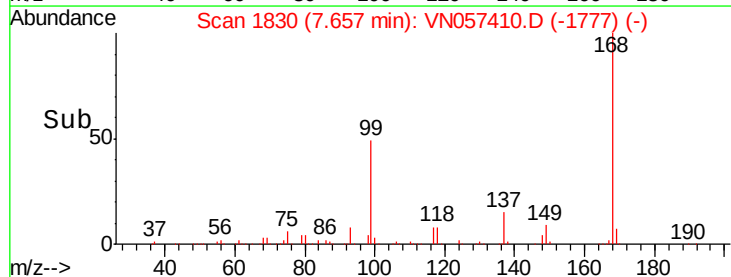
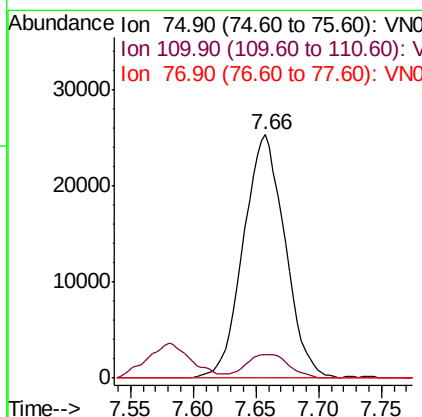
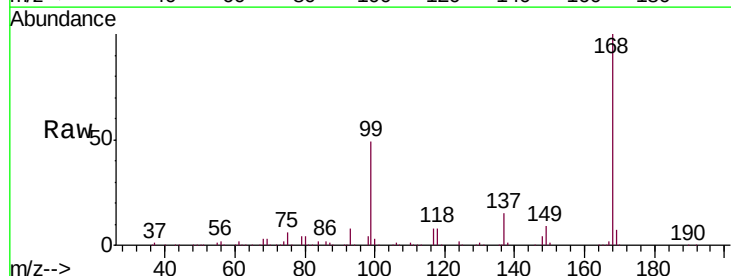
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-F-(2)

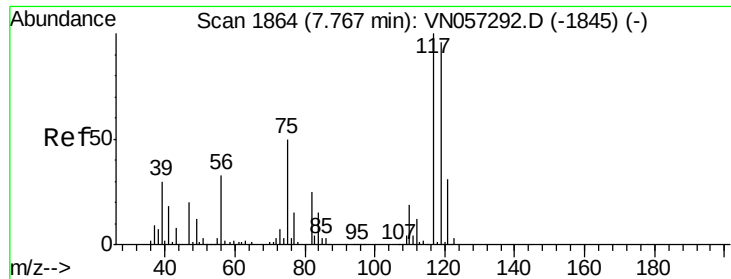
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.1	82.1	123.1
192	23.5	19.3	28.9



#36
 1,1-Dichloropropene
 Concen: 4.743 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN057410.D
 Acq: 19 Aug 2019 19:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.1	19.5	58.5#
77	0.0	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 6.323 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

T4-F-(2)

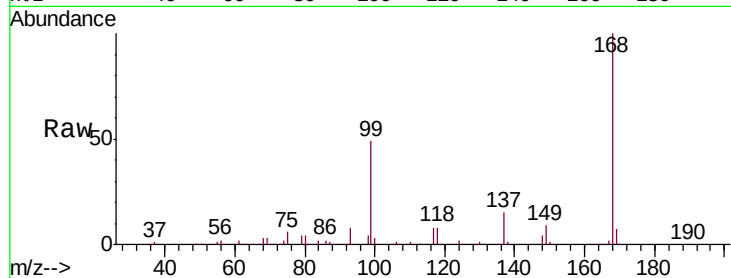
Tgt Ion:117 Resp: 81157

Ion Ratio Lower Upper

117 100

119 5.6 76.8 115.2#

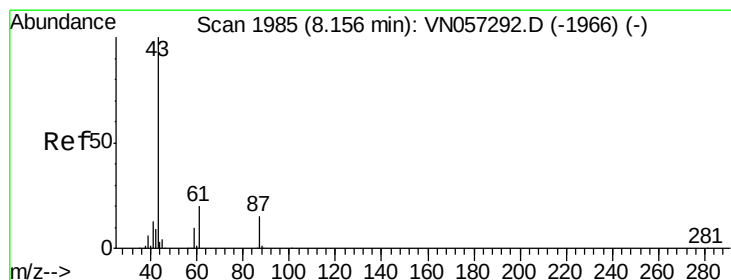
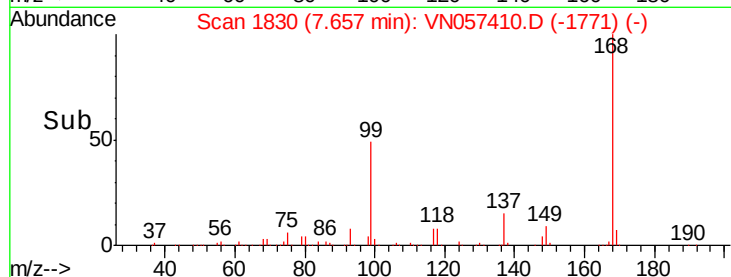
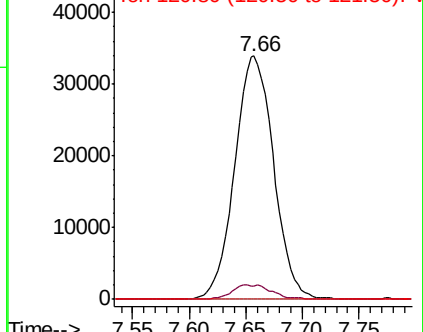
121 0.0 25.0 37.4#



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: 13.436 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

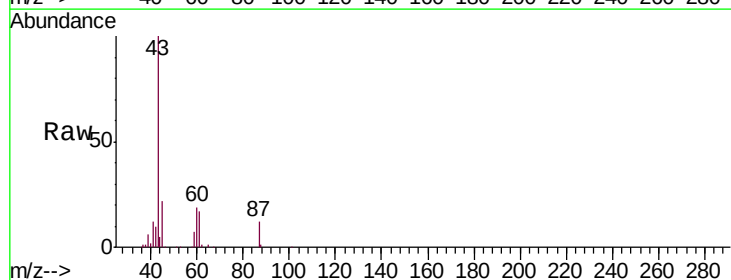
Tgt Ion: 43 Resp: 263865

Ion Ratio Lower Upper

43 100

61 10.9 21.6 32.4#

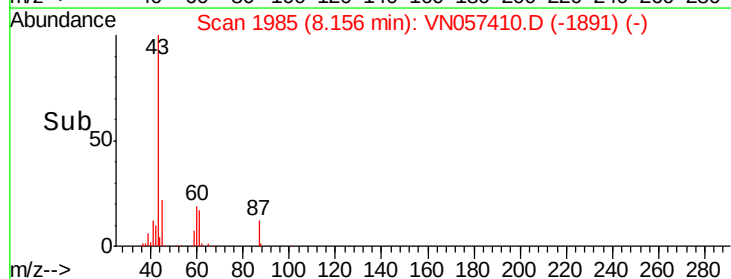
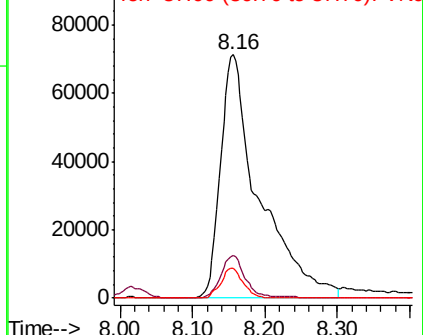
87 7.0 11.4 17.0#

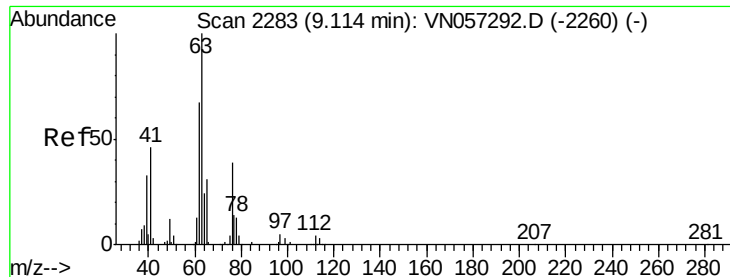


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.213 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.14 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

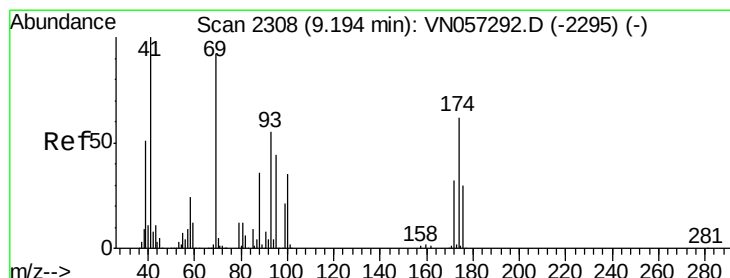
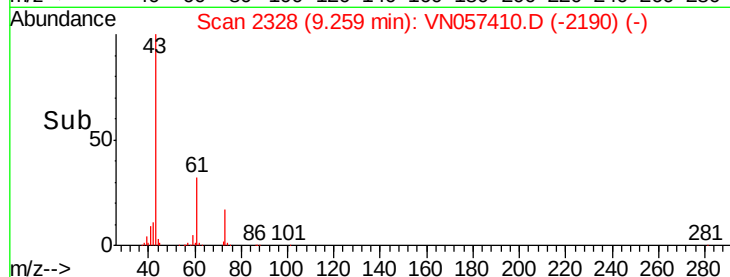
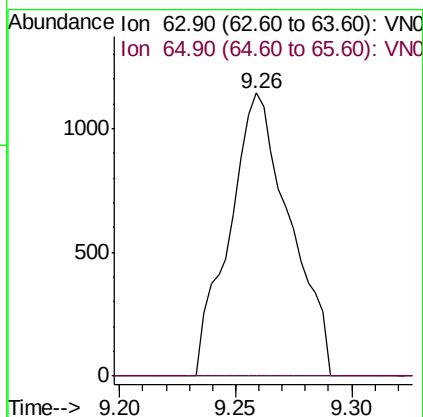
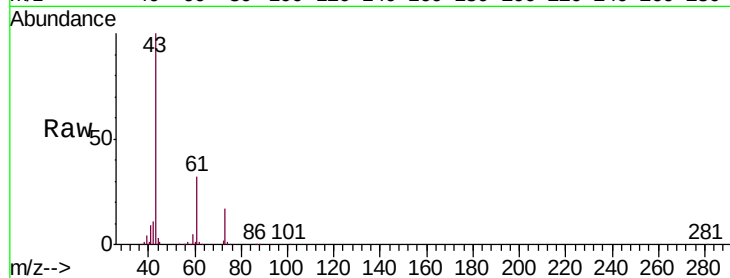
T4-F-(2)

Tgt Ion: 63 Resp: 2070

Ion Ratio Lower Upper

63 100

65 0.0 24.8 37.2#



#48

Methyl methacrylate

Concen: 0.932 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.03 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

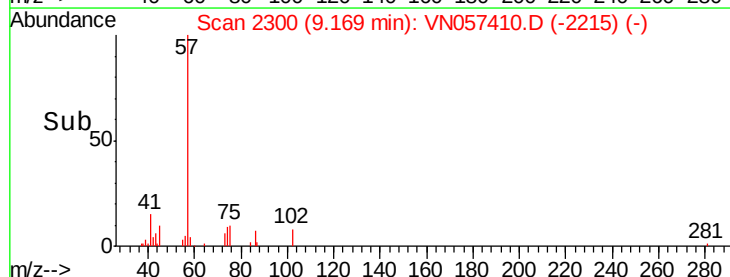
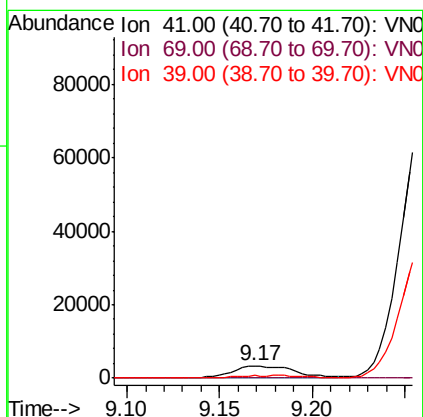
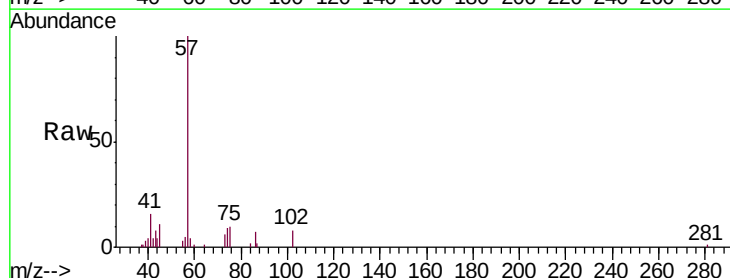
Tgt Ion: 41 Resp: 7767

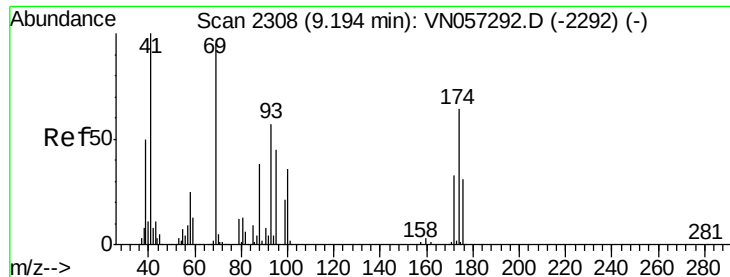
Ion Ratio Lower Upper

41 100

69 0.0 75.9 113.9#

39 0.0 42.3 63.5#





#49

1,4-Dioxane

Concen: 0.776 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.06 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

T4-F-(2)

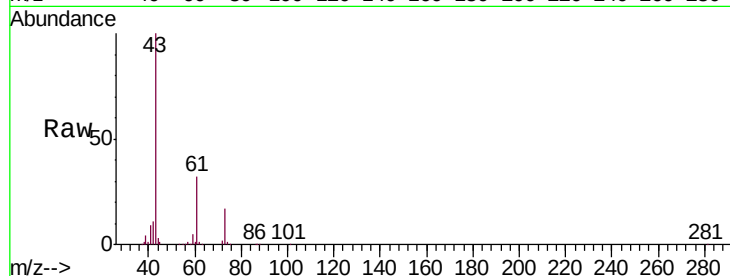
Tgt Ion: 88 Resp: 136

Ion Ratio Lower Upper

88 100

43 1123844.1 22.9 34.3#

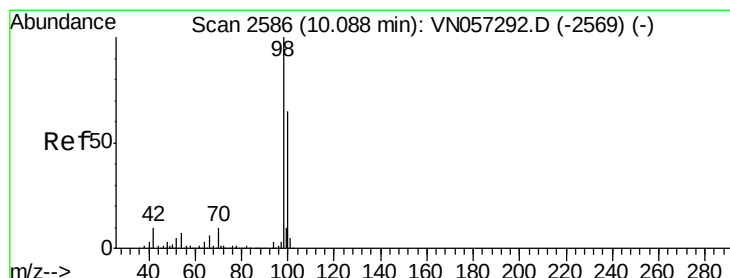
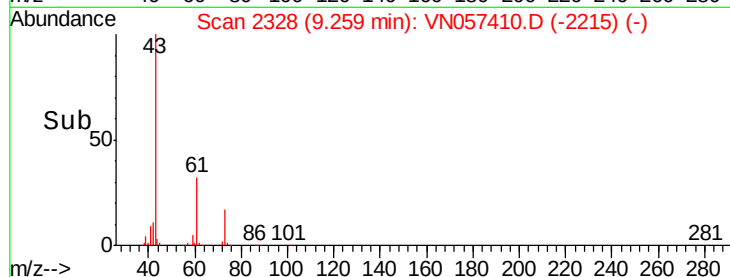
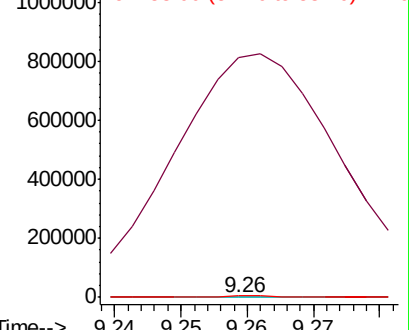
58 5405.1 52.7 79.1#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.096 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057410.D

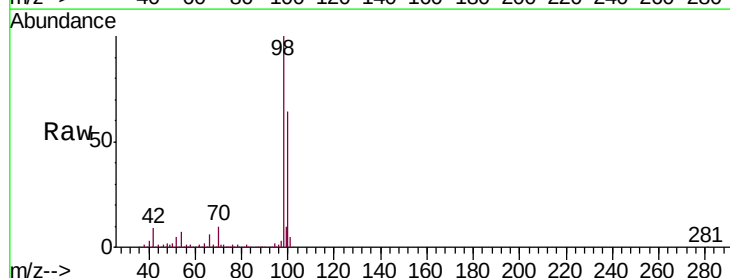
Acq: 19 Aug 2019 19:10

Tgt Ion: 98 Resp: 1613341

Ion Ratio Lower Upper

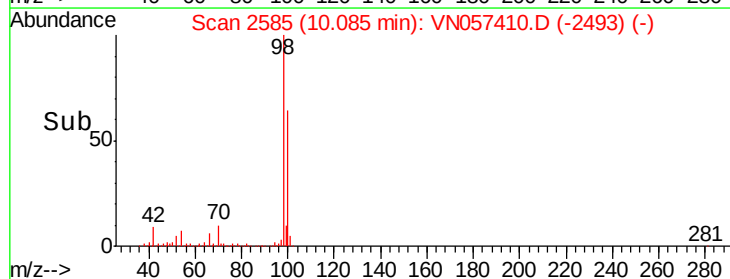
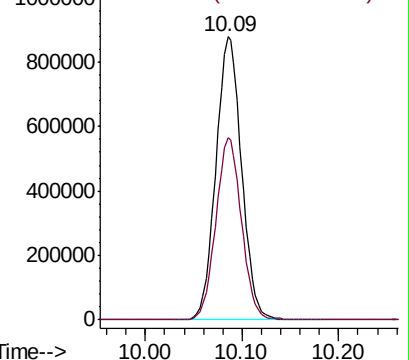
98 100

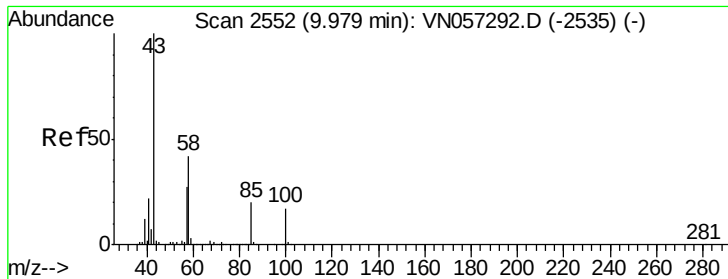
100 64.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

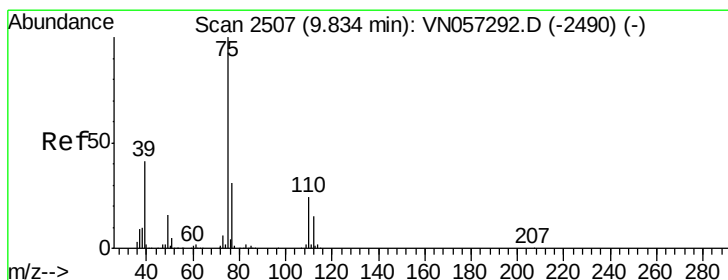
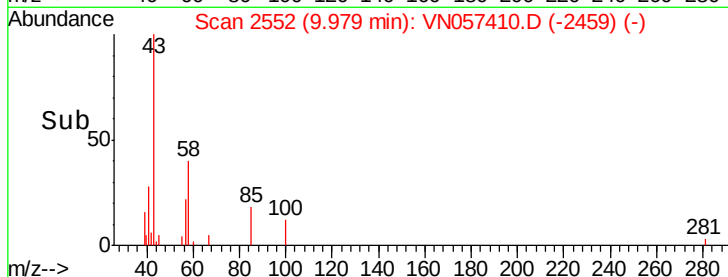
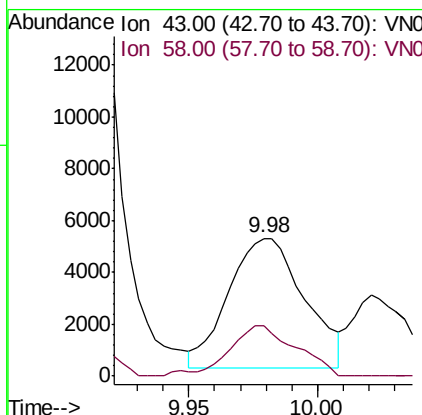
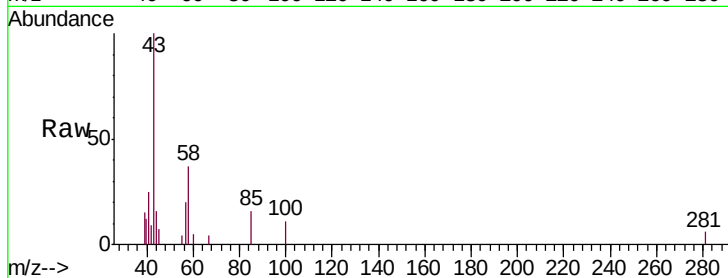




#51
 4-Methyl-2-Pentanone
 Concen: 0.984 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN057410.D
 Acq: 19 Aug 2019 19:10

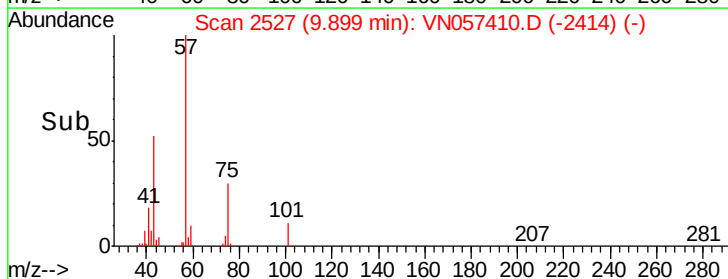
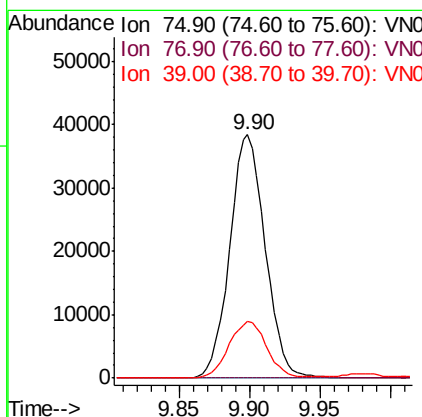
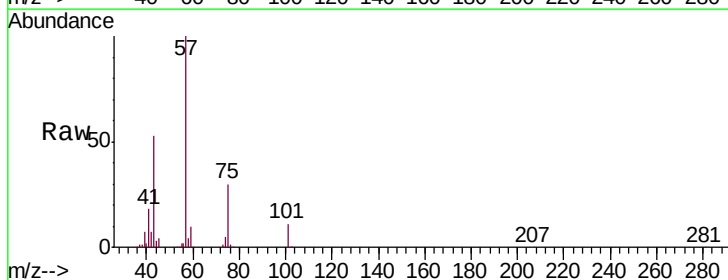
Instrument :
 MSVOA_N
 ClientSampled :
 T4-F-(2)

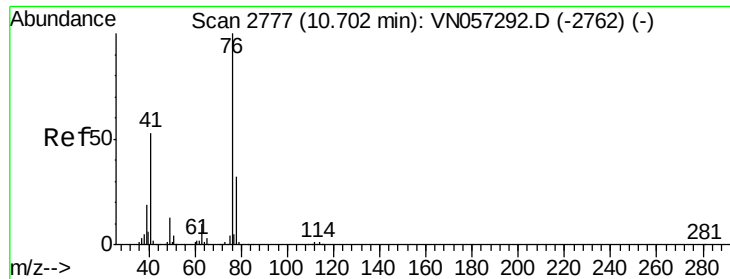
Tgt Ion: 43 Resp: 10268
 Ion Ratio Lower Upper
 43 100
 58 34.5 33.2 49.8



#54
 cis-1,3-Dichloropropene
 Concen: 4.395 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN057410.D
 Acq: 19 Aug 2019 19:10

Tgt Ion: 75 Resp: 67478
 Ion Ratio Lower Upper
 75 100
 77 0.4 24.9 37.3#
 39 23.0 32.7 49.1#

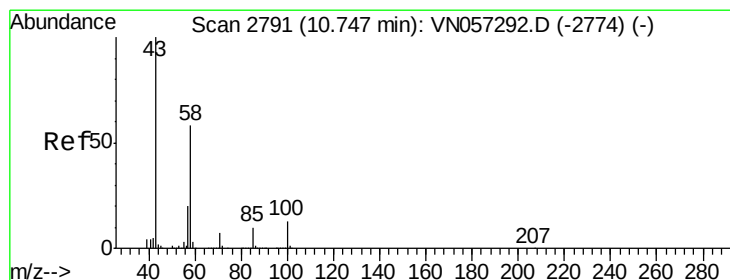
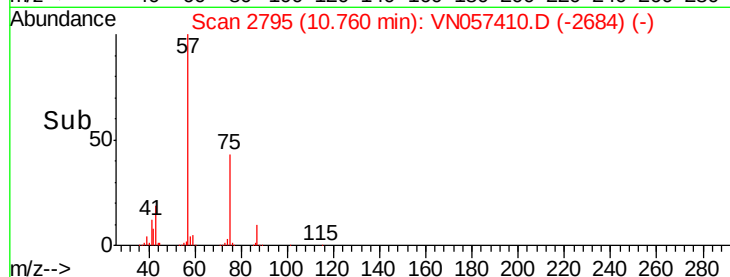
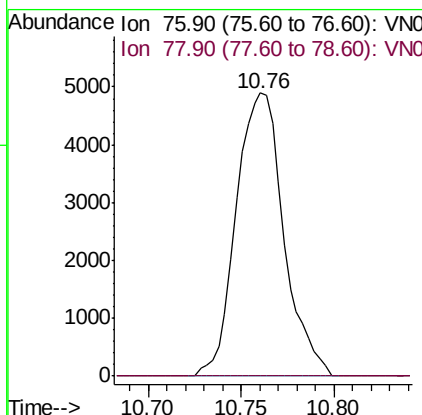
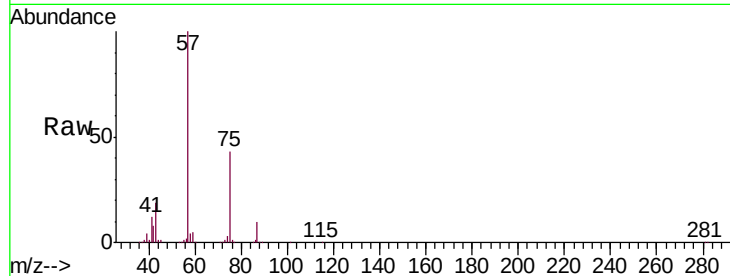




#57
 1,3-Dichloropropane
 Concen: 0.564 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.06 min
 Lab File: VN057410.D
 Acq: 19 Aug 2019 19:10

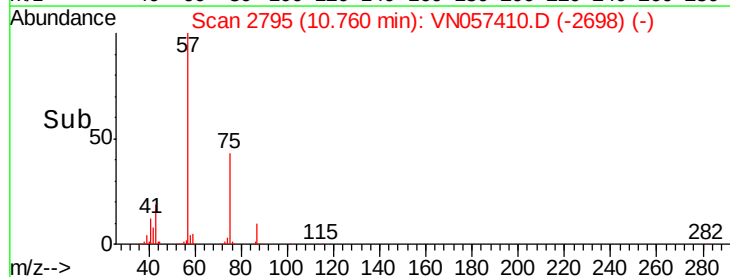
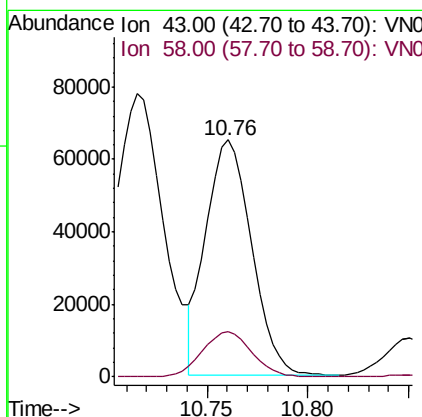
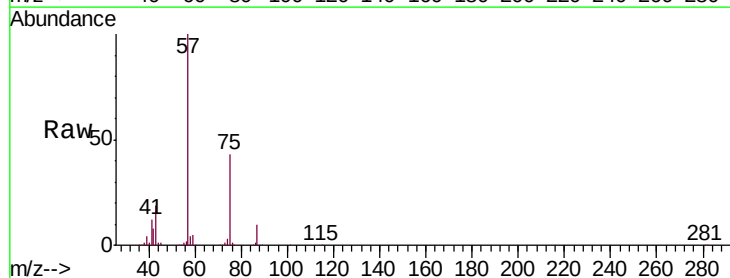
Instrument :
 MSVOA_N
 ClientSampled :
 T4-F-(2)

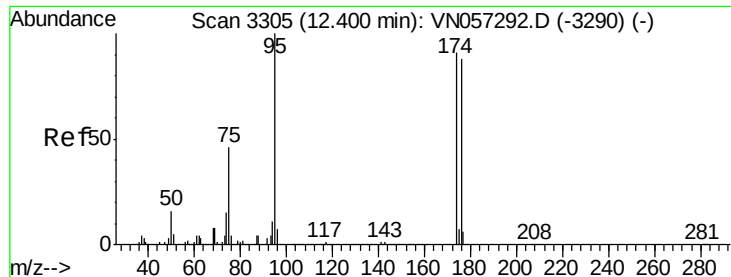
Tgt Ion: 76 Resp: 8709
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 13.647 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN057410.D
 Acq: 19 Aug 2019 19:10

Tgt Ion: 43 Resp: 102408
 Ion Ratio Lower Upper
 43 100
 58 20.8 28.6 85.9#





#62

4-Bromofluorobenzene

Concen: 35.760 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

T4-F-(2)

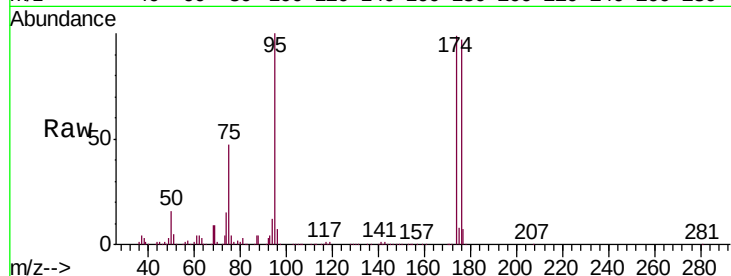
Tgt Ion: 95 Resp: 423915

Ion Ratio Lower Upper

95 100

174 98.2 0.0 185.0

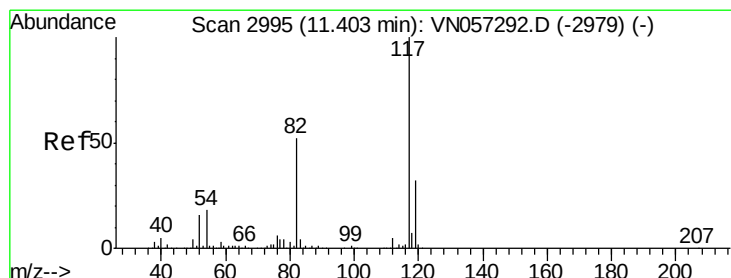
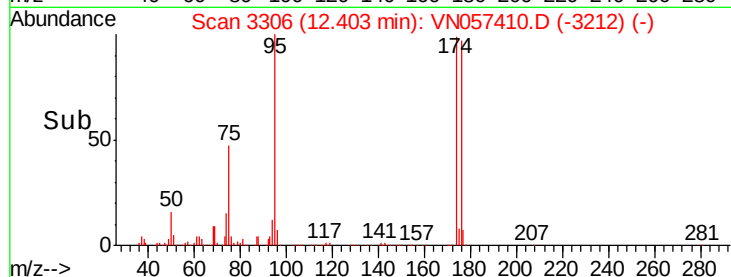
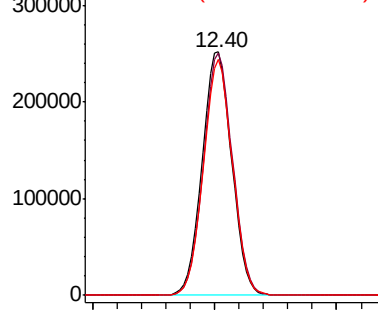
176 94.9 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VN057292.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN057292.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN057292.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

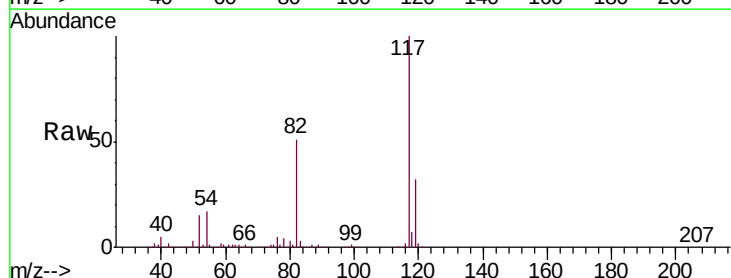
Tgt Ion: 117 Resp: 1169742

Ion Ratio Lower Upper

117 100

82 50.9 41.2 61.8

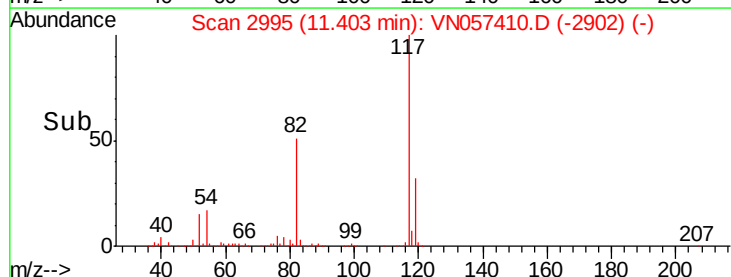
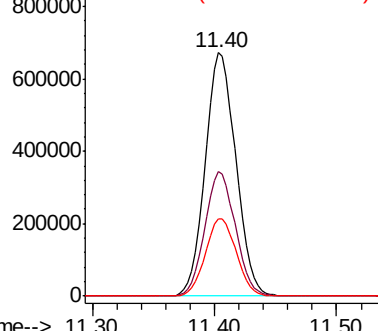
119 31.8 25.8 38.8

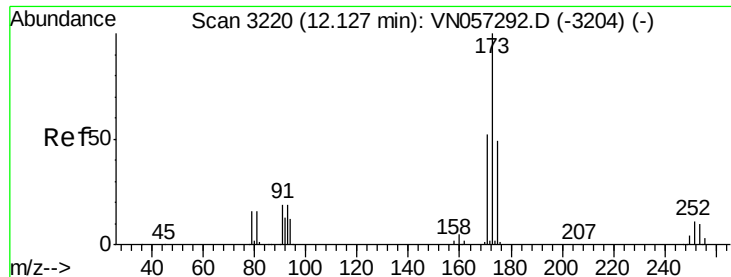


Abundance Ion 116.90 (116.60 to 117.60): VN057292.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN057292.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN057292.D (-2979) (-)





#71

Bromoform

Concen: 0.303 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

Instrument :

MSVOA_N

ClientSampled :

T4-F-(2)

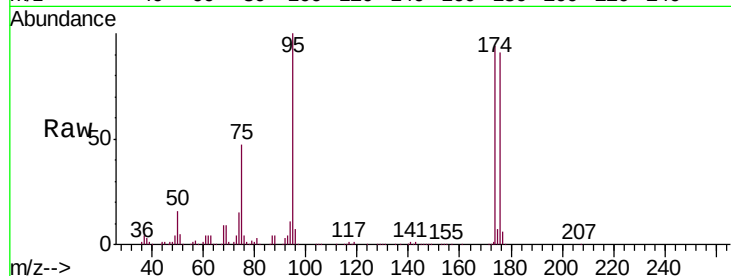
Tgt Ion:173 Resp: 2181

Ion Ratio Lower Upper

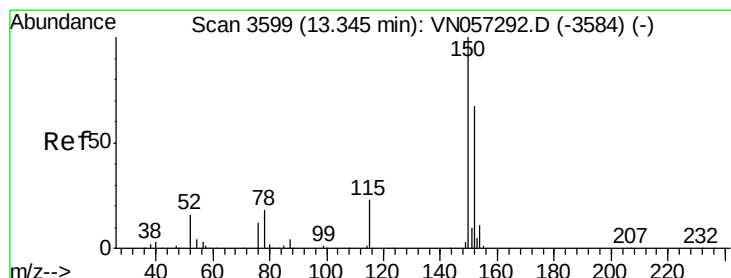
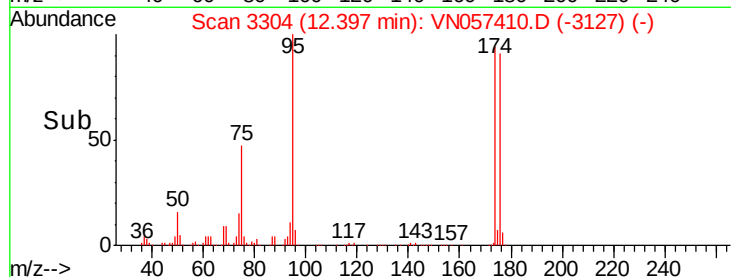
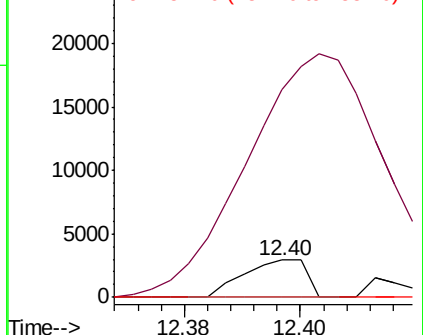
173 100

175 1251.7 24.2 72.6#

254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

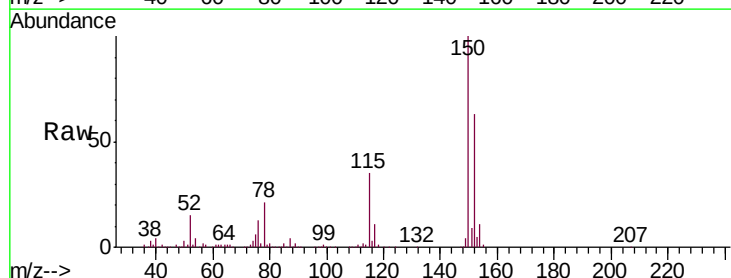
Tgt Ion:152 Resp: 312193

Ion Ratio Lower Upper

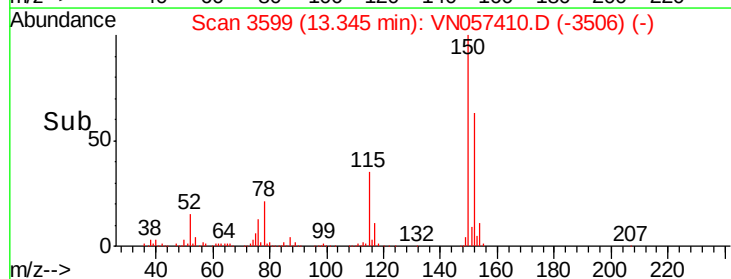
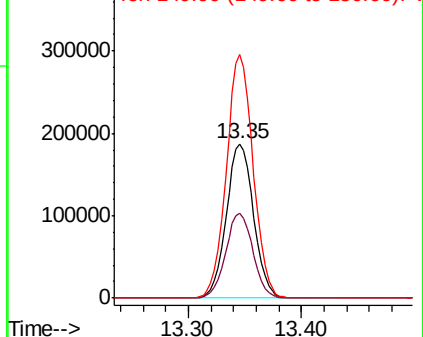
152 100

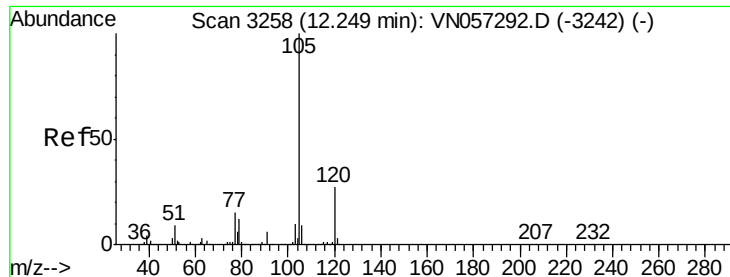
115 54.7 27.3 81.9

150 155.1 0.0 344.4



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. 0.15 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

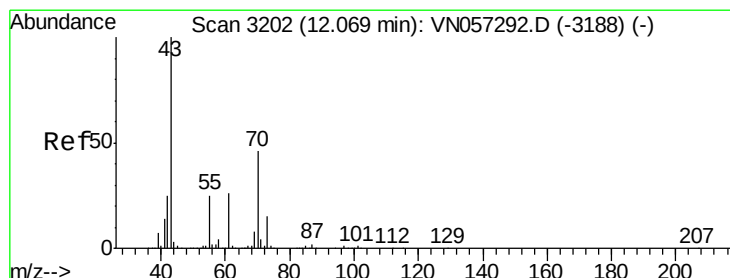
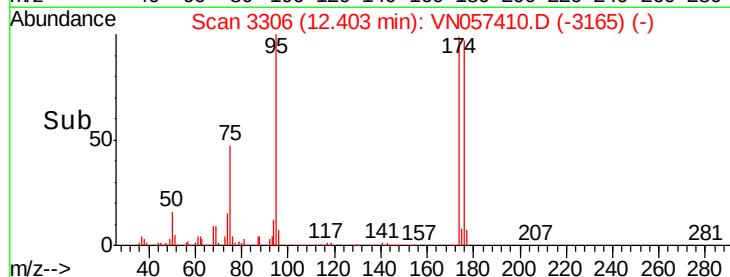
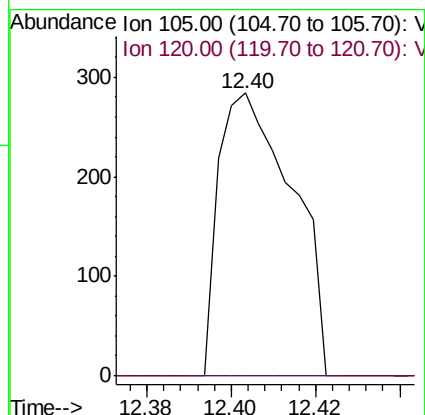
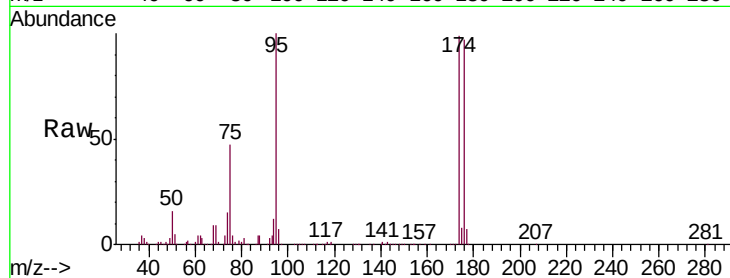
T4-F-(2)

Tgt Ion: 105 Resp: 345

Ion Ratio Lower Upper

105 100

120 0.0 13.2 39.6#



#74

N-ethyl acetate

Concen: 0.325 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

Tgt Ion: 43 Resp: 2948

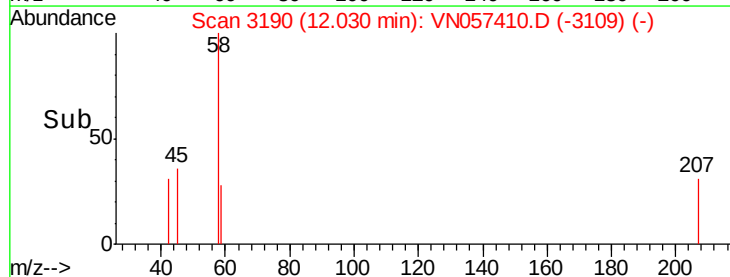
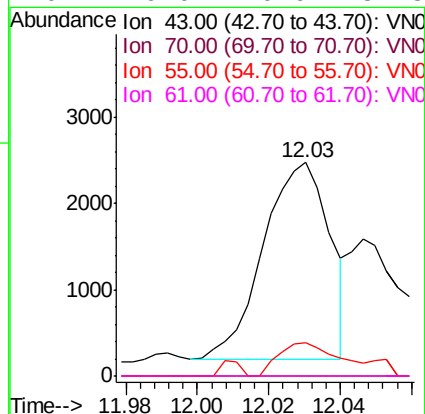
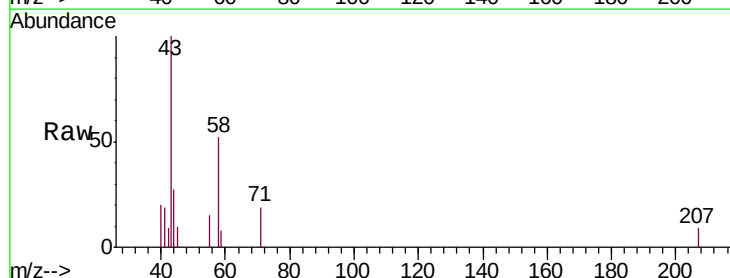
Ion Ratio Lower Upper

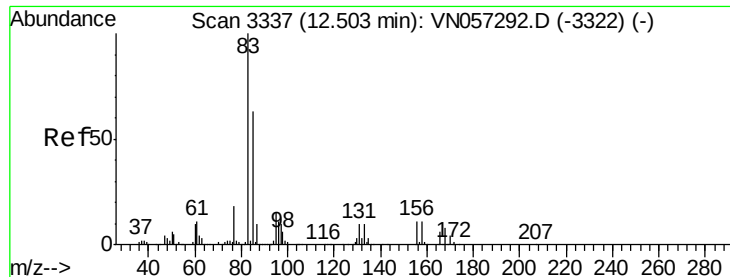
43 100

70 0.0 36.2 54.2#

55 17.8 20.1 30.1#

61 0.0 20.9 31.3#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

T4-F-(2)

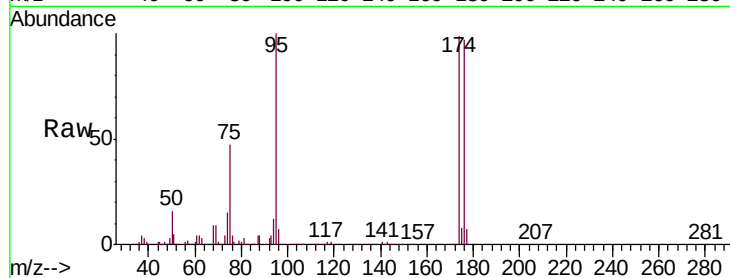
Tgt Ion: 83 Resp: 68

Ion Ratio Lower Upper

83 100

131 723.5 5.4 16.2#

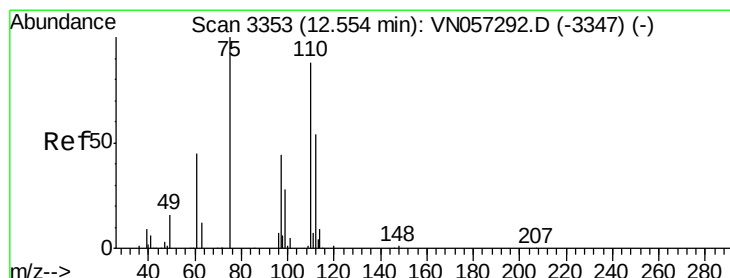
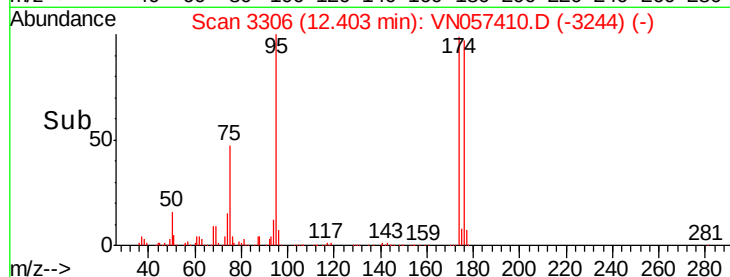
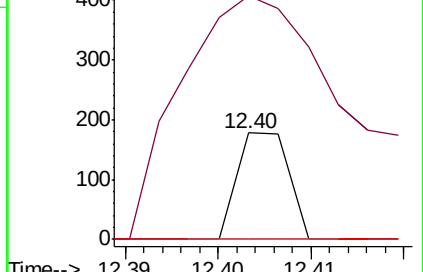
85 0.0 32.3 96.9#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 31.905 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057410.D

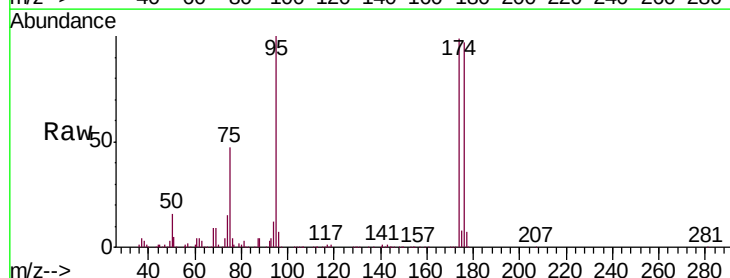
Acq: 19 Aug 2019 19:10

Tgt Ion: 75 Resp: 200271

Ion Ratio Lower Upper

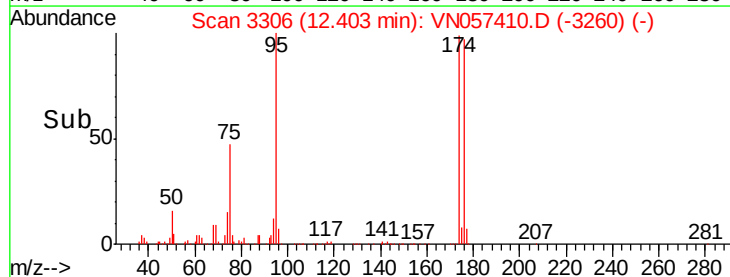
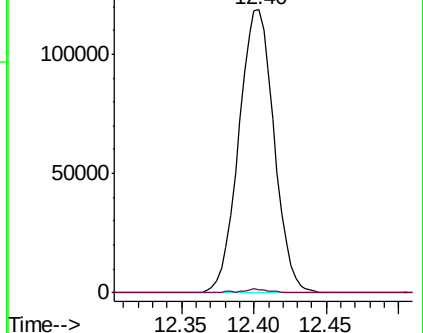
75 100

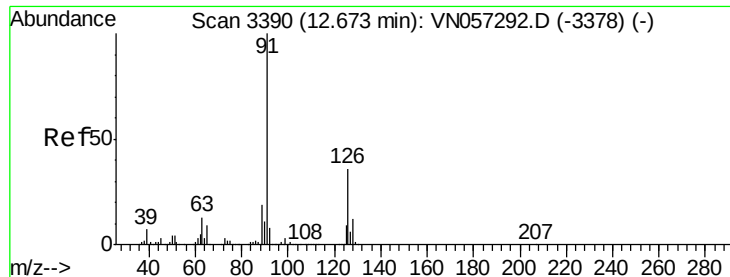
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.27 min

Lab File: VN057410.D

Acq: 19 Aug 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

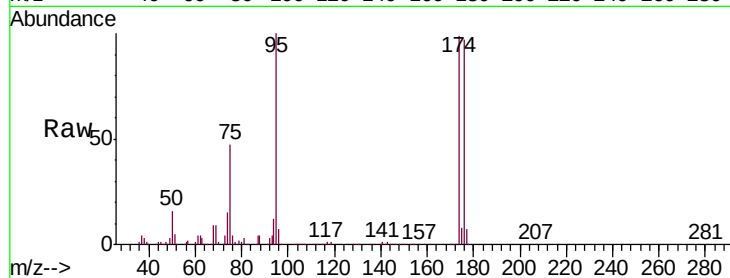
T4-F-(2)

Tgt Ion: 91 Resp: 1422

Ion Ratio Lower Upper

91 100

126 2.1 18.1 54.1#



Abundance Ion 91.00 (90.70 to 91.70): VN057292.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN057292.D (-3378) (-)

12.40

1000

800

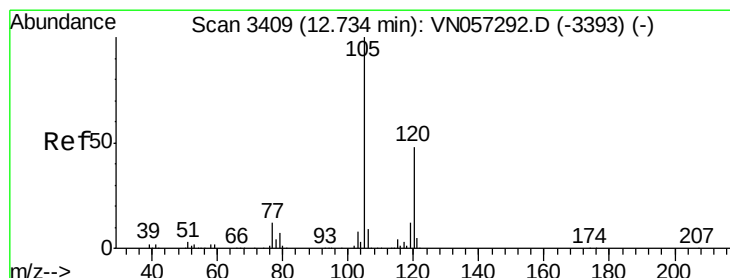
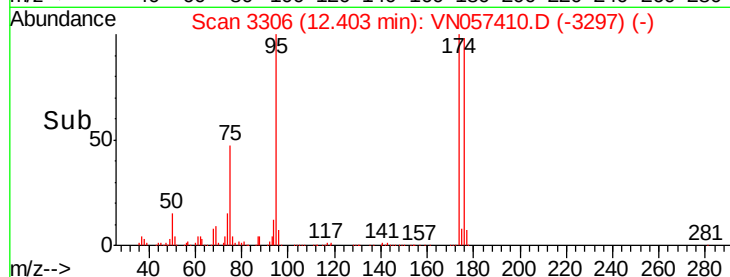
600

400

200

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3407

Delta R.T. -0.01 min

Lab File: VN057410.D

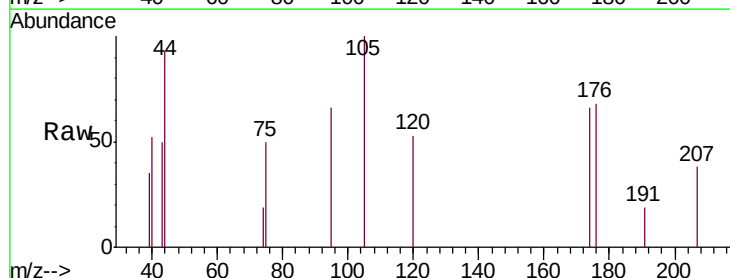
Acq: 19 Aug 2019 19:10

Tgt Ion: 105 Resp: 1320

Ion Ratio Lower Upper

105 100

120 44.3 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): VN057292.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN057292.D (-3393) (-)

12.73

800

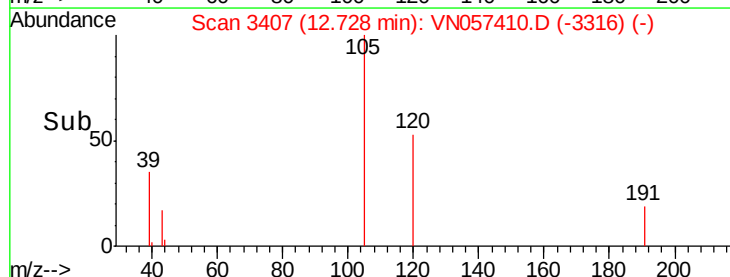
600

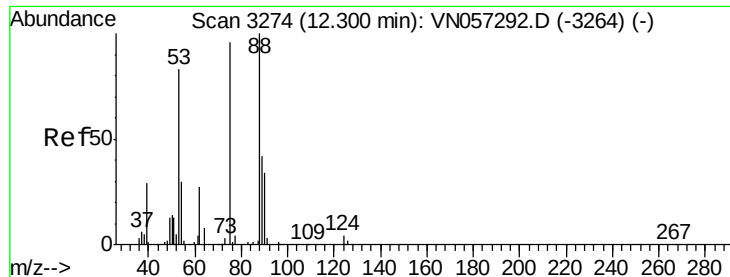
400

200

0

Time-->

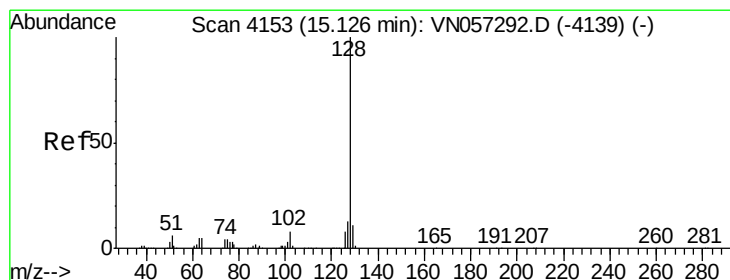
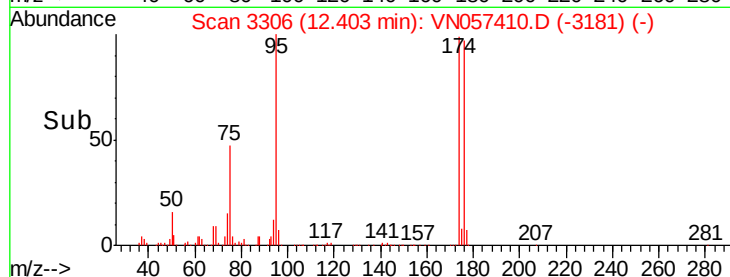
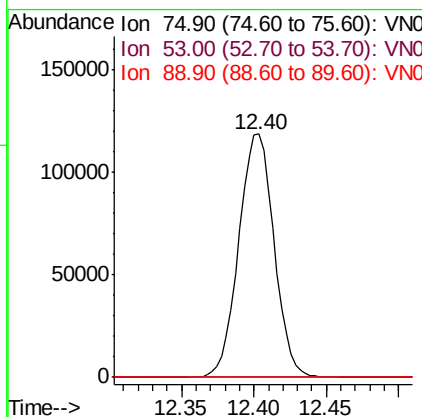
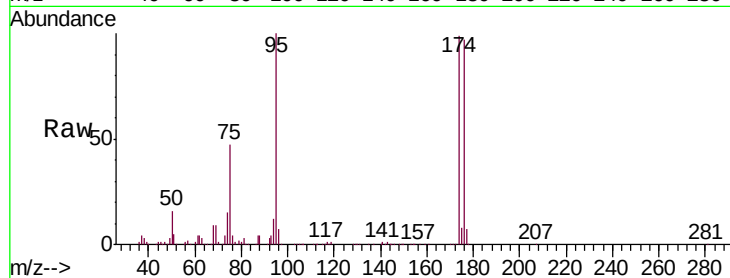




#81
trans-1,4-Dichloro-2-butene
Concen: 78.223 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN057410.D
Acq: 19 Aug 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
T4-F-(2)

Tgt Ion: 75 Resp: 200271
Ion Ratio Lower Upper
75 100
53 0.0 67.9 101.9#
89 0.0 36.2 54.4#



#95
Naphthalene
Concen: Below Cal
RT: 15.12 min Scan# 4151
Delta R.T. -0.01 min
Lab File: VN057410.D
Acq: 19 Aug 2019 19:10

Tgt Ion: 128 Resp: 150
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.8 13.2#

