

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057986.D
 Acq On : 12 Sep 2019 21:56
 Operator : JC/SP
 Sample : K4680-24
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-3-(1.5)

Quant Time: Sep 13 04:51:21 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	239224	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	428729	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	381773	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	188232	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	321349	66.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	132.64%	
35) Dibromofluoromethane	7.58	113	220182	55.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.28%	
50) Toluene-d8	10.09	98	776871	50.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.14%	
62) 4-Bromofluorobenzene	12.41	95	252276	43.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.18%	

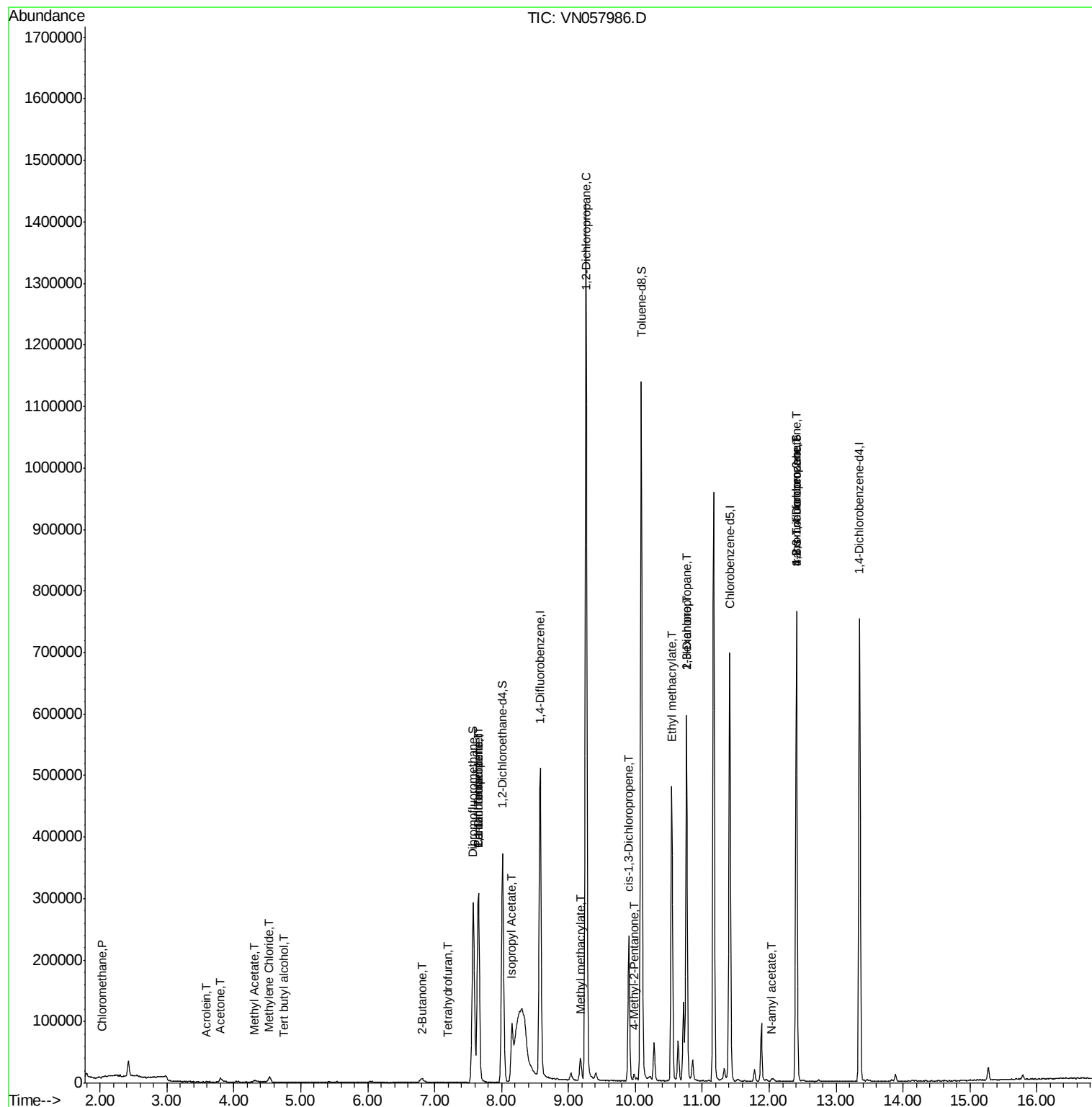
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	686	0.203	ug/l #	78
5) Bromomethane	2.55	94	281	Below Cal	#	71
11) Tert butyl alcohol	4.75	59	371	0.633	ug/l #	72
13) Acrolein	3.59	56	180	0.362	ug/l #	14
16) Acetone	3.80	43	9657	6.080	ug/l #	88
18) Methyl Acetate	4.31	43	3297	0.778	ug/l	92
20) Methylene Chloride	4.54	84	6081	0.800	ug/l	93
25) 2-Butanone	6.82	43	825	0.359	ug/l #	49
29) Tetrahydrofuran	7.21	42	1003	0.708	ug/l #	42
31) Cyclohexane	7.65	56	6415	Below Cal	#	25
36) 1,1-Dichloropropene	7.65	75	22006	4.426	ug/l #	45
38) Carbon Tetrachloride	7.65	117	24141	5.318	ug/l #	16
43) Isopropyl Acetate	8.16	43	112045	12.970	ug/l #	86
45) 1,2-Dichloropropane	9.27	63	1722	0.395	ug/l #	44
48) Methyl methacrylate	9.18	41	6923	1.580	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	7960	1.557	ug/l	91
54) cis-1,3-Dichloropropene	9.90	75	38091	6.233	ug/l #	67
56) Ethyl methacrylate	10.54	69	2037	0.339	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5841	0.849	ug/l #	43
59) 2-Hexanone	10.76	43	91047	23.761	ug/l #	54
74) N-amyl acetate	12.03	43	2314	0.364	ug/l #	51
76) 1,2,3-Trichloropropane	12.41	75	140041	32.888	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	140041	115.733	ug/l #	6
95) Naphthalene	15.13	128	1110	Below Cal	#	69

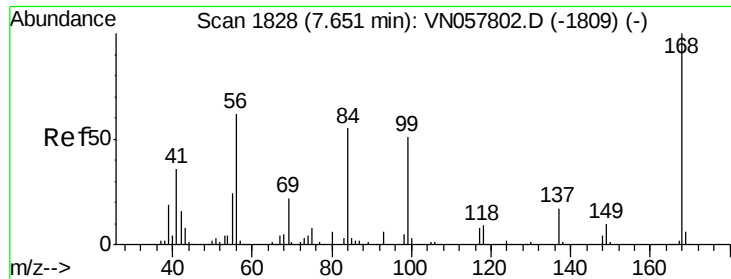
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 13 04:51:21 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057986.D

Acq: 12 Sep 2019 21:56

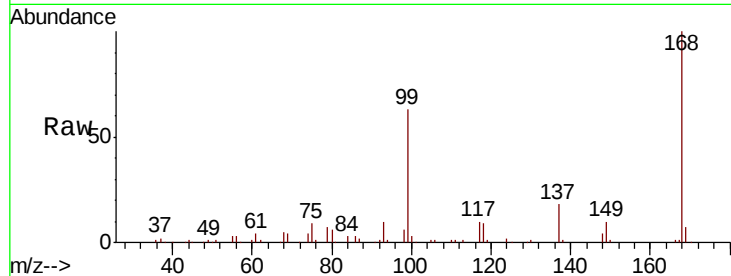
Instrument :
MSVOA_N
ClientSampled :
T1-3-(1.5)

Tgt Ion: 168 Resp: 239224

Ion Ratio Lower Upper

168 100

99 62.9 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

100000

80000

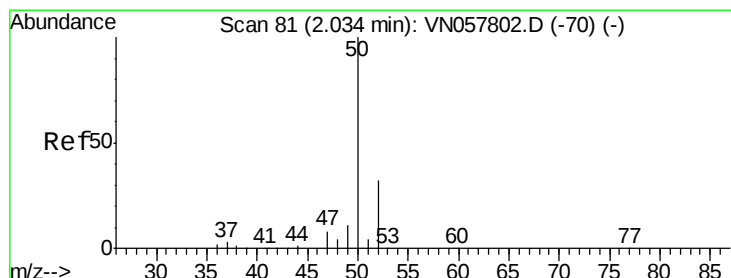
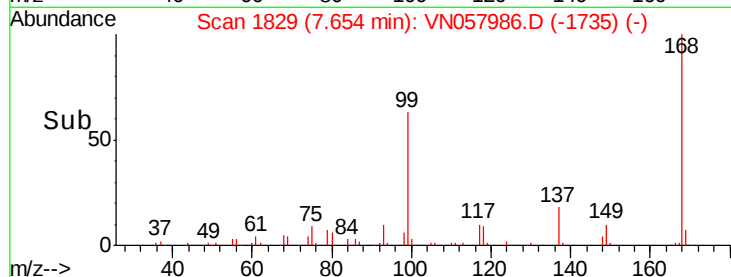
60000

40000

20000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#3

Chloromethane

Concen: 0.203 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN057986.D

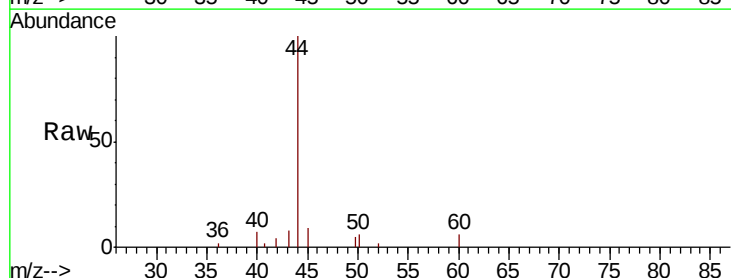
Acq: 12 Sep 2019 21:56

Tgt Ion: 50 Resp: 686

Ion Ratio Lower Upper

50 100

52 19.4 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1000

800

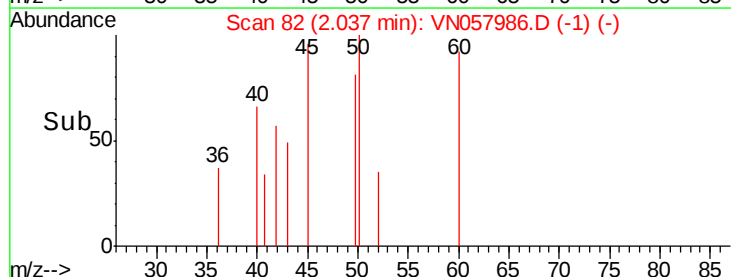
600

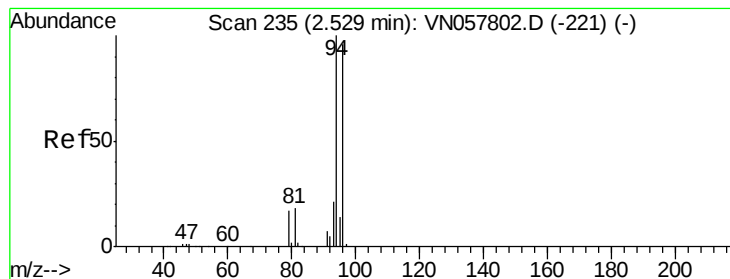
400

200

0

Time--> 2.02 2.04 2.06





#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN057986.D

Acq: 12 Sep 2019 21:56

Instrument :

MSVOA_N

ClientSampled :

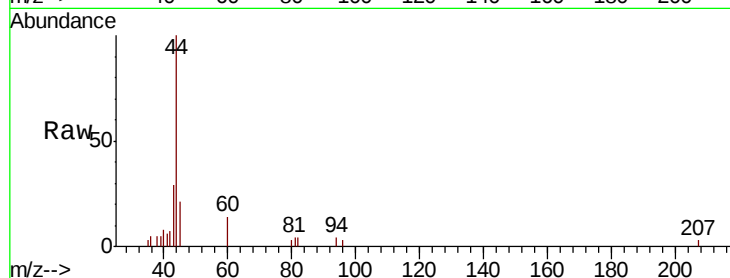
T1-3-(1.5)

Tgt Ion: 94 Resp: 281

Ion Ratio Lower Upper

94 100

96 68.0 77.0 115.4#



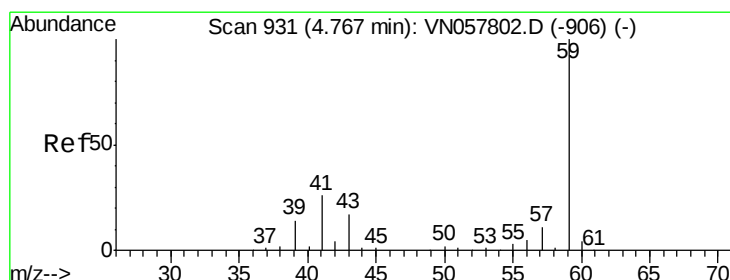
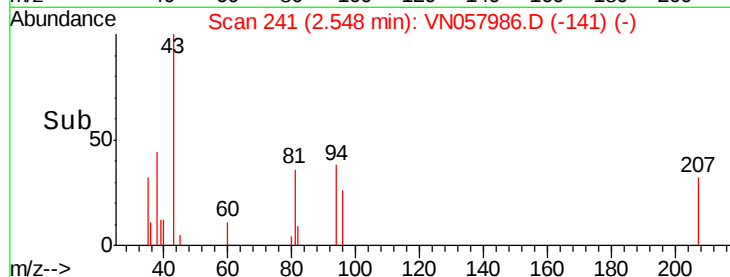
Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.55

2.52 2.53 2.54 2.55 2.56

Time-->



#11

Tert butyl alcohol

Concen: 0.633 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN057986.D

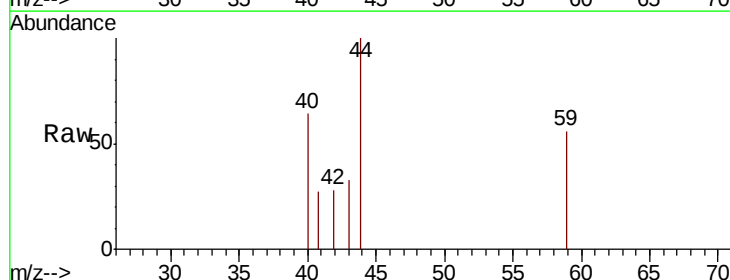
Acq: 12 Sep 2019 21:56

Tgt Ion: 59 Resp: 371

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



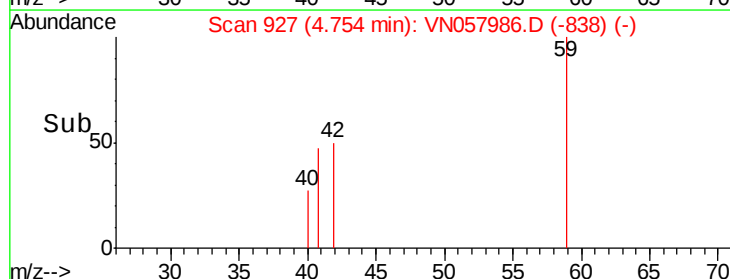
Abundance Ion 59.00 (58.70 to 59.70): VN0

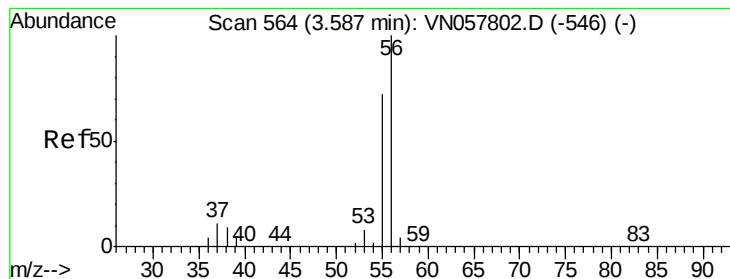
Ion 57.00 (56.70 to 57.70): VN0

4.75

4.74 4.76 4.78

Time-->





#13

Acrolein

Concen: 0.362 ug/l

RT: 3.59 min Scan# 566

Delta R.T. 0.01 min

Lab File: VN057986.D

Acq: 12 Sep 2019 21:56

Instrument :

MSVOA_N

ClientSampleId :

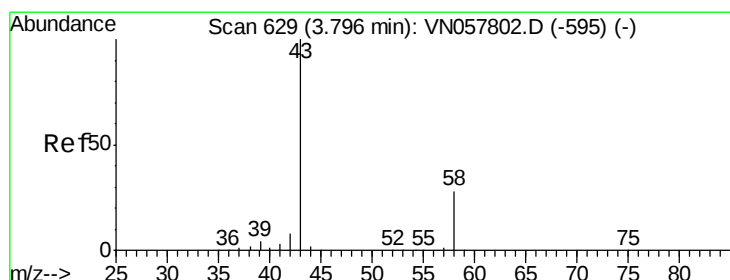
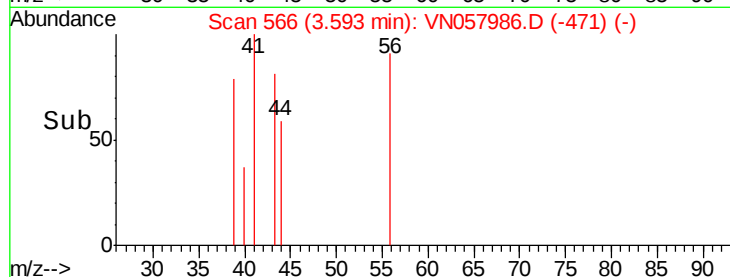
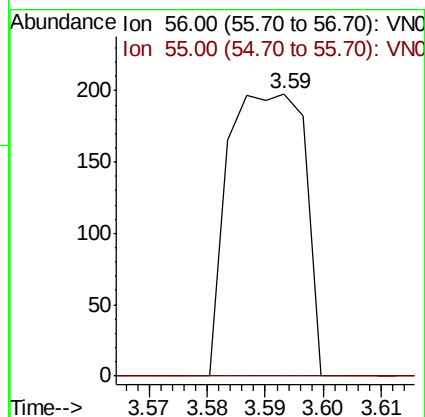
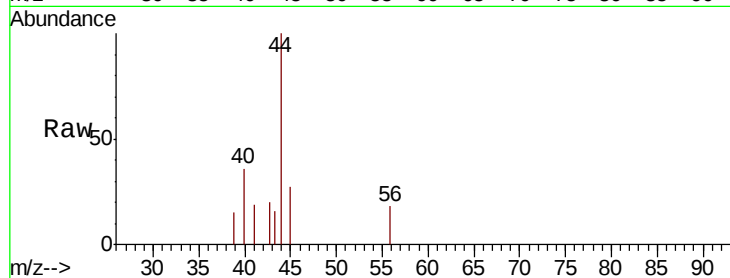
T1-3-(1.5)

Tgt Ion: 56 Resp: 180

Ion Ratio Lower Upper

56 100

55 0.0 57.3 85.9#



#16

Acetone

Concen: 6.080 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN057986.D

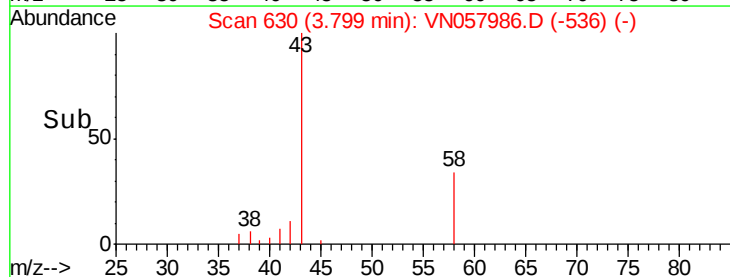
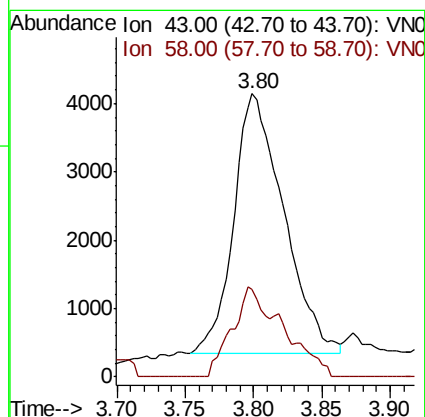
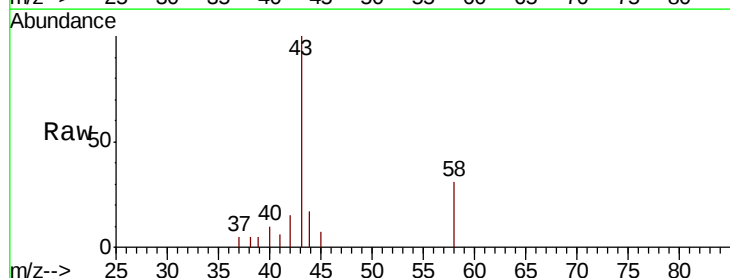
Acq: 12 Sep 2019 21:56

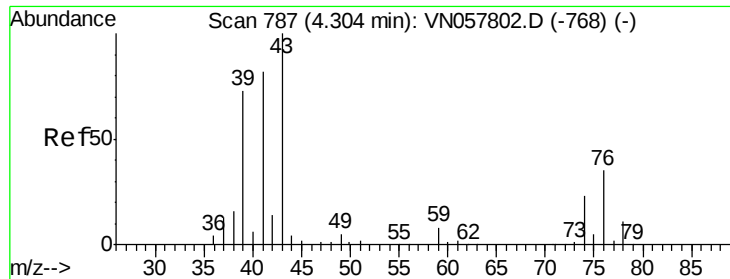
Tgt Ion: 43 Resp: 9657

Ion Ratio Lower Upper

43 100

58 34.0 22.2 33.2#

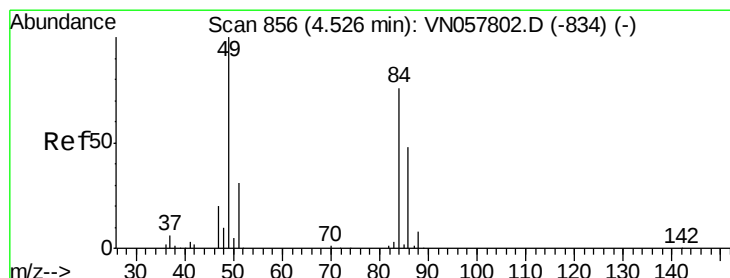
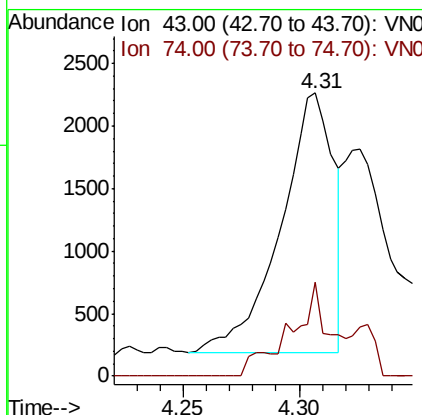
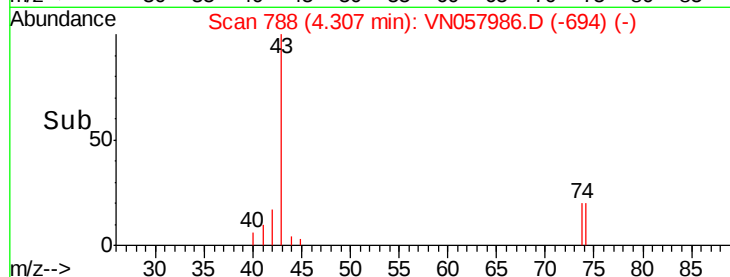
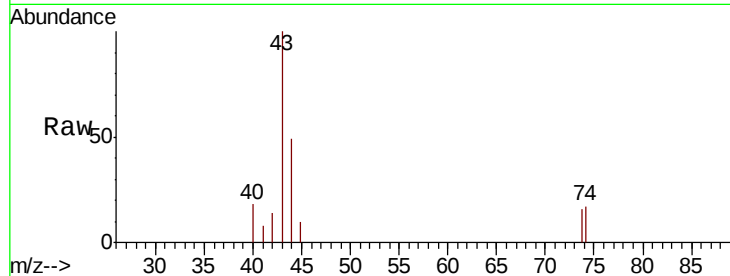




#18
Methyl Acetate
Concen: 0.778 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN057986.D
Acq: 12 Sep 2019 21:56

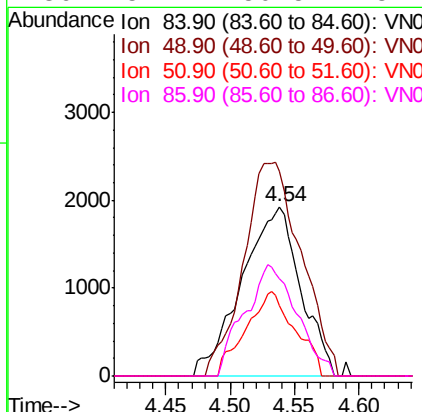
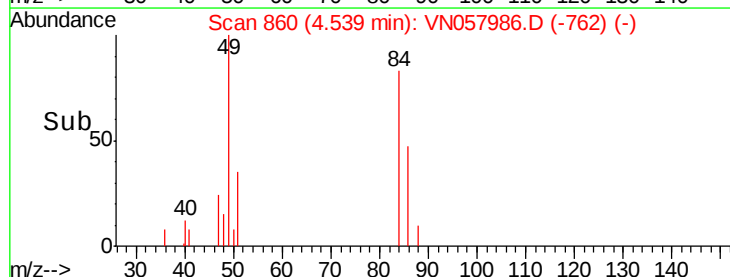
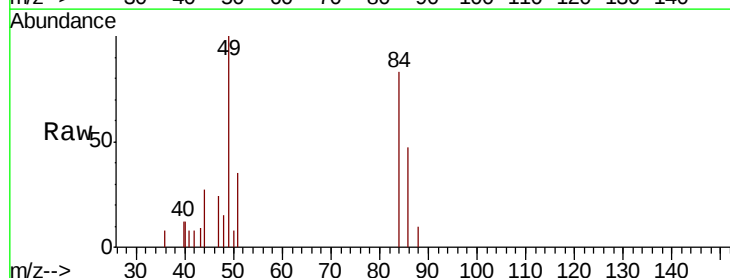
Instrument :
MSVOA_N
ClientSampled :
T1-3-(1.5)

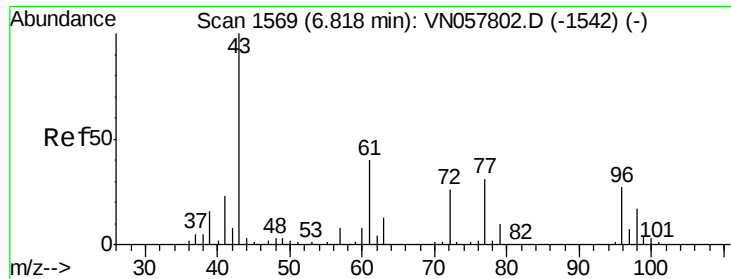
Tgt Ion: 43 Resp: 3297
Ion Ratio Lower Upper
43 100
74 26.4 17.9 26.9



#20
Methylene Chloride
Concen: 0.800 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN057986.D
Acq: 12 Sep 2019 21:56

Tgt Ion: 84 Resp: 6081
Ion Ratio Lower Upper
84 100
49 120.8 104.8 157.2
51 41.8 33.0 49.4
86 57.4 50.5 75.7

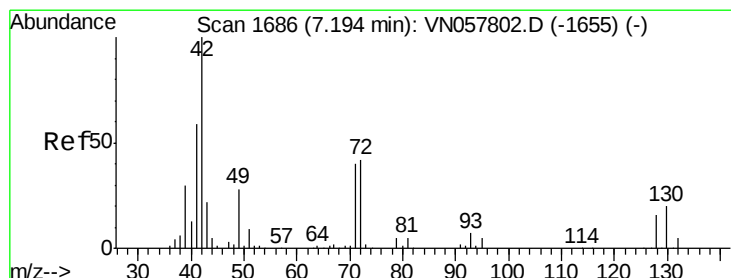
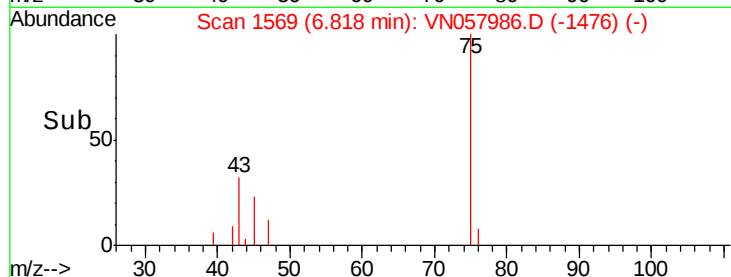
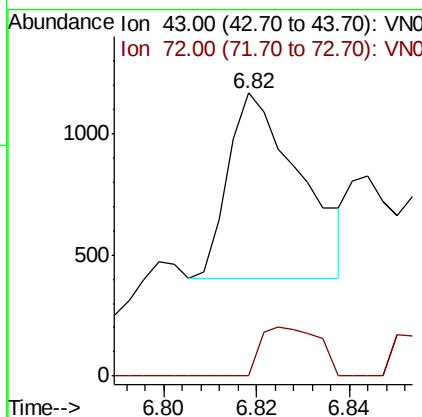
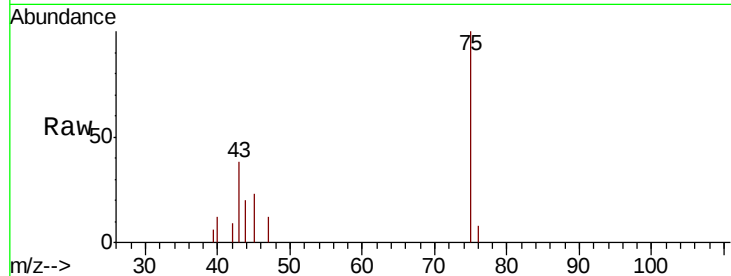




#25
2-Butanone
Concen: 0.359 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VN057986.D
Acq: 12 Sep 2019 21:56

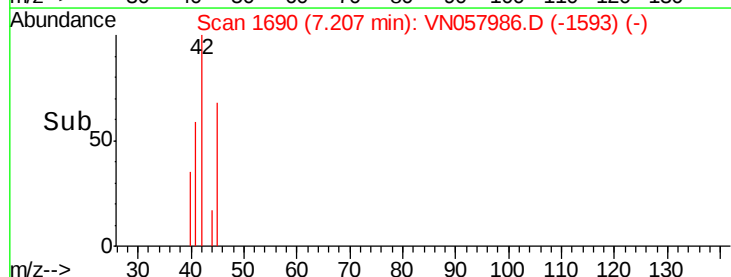
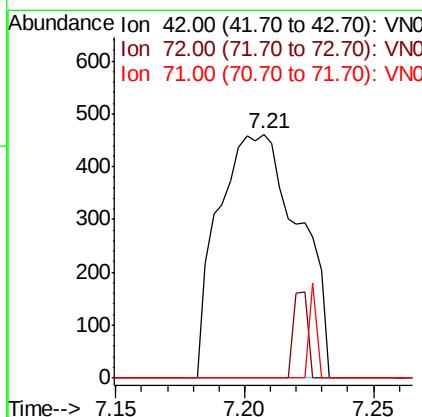
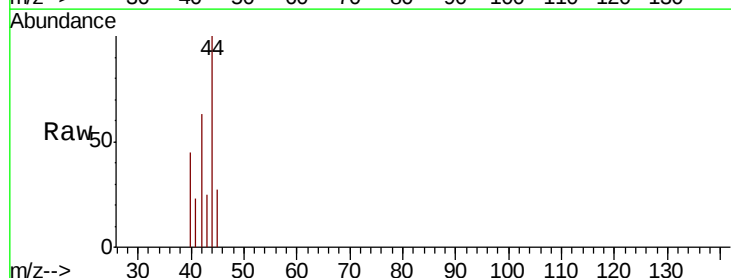
Instrument :
MSVOA_N
ClientSampled :
T1-3-(1.5)

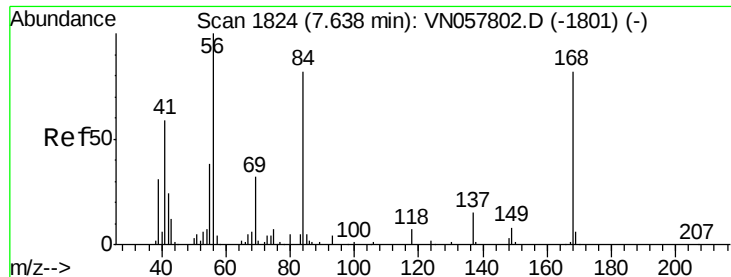
Tgt Ion: 43 Resp: 825
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#



#29
Tetrahydrofuran
Concen: 0.708 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VN057986.D
Acq: 12 Sep 2019 21:56

Tgt Ion: 42 Resp: 1003
Ion Ratio Lower Upper
42 100
72 6.3 33.7 50.5#
71 3.5 31.9 47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057986.D

Acq: 12 Sep 2019 21:56

Instrument :

MSVOA_N

ClientSampled :

T1-3-(1.5)

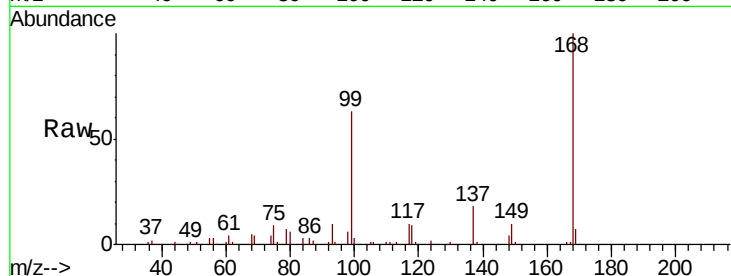
Tgt Ion: 56 Resp: 6415

Ion Ratio Lower Upper

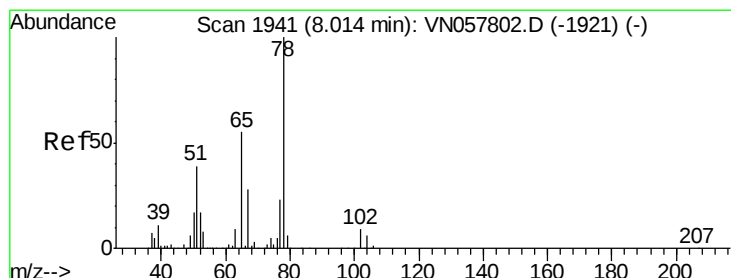
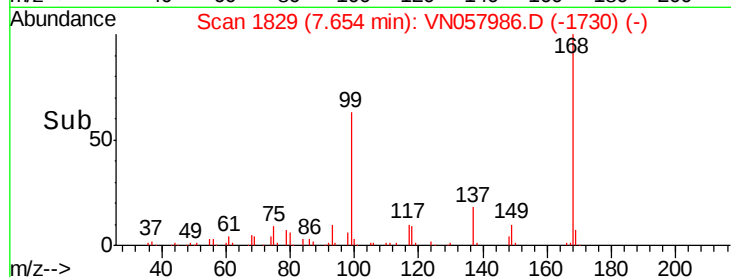
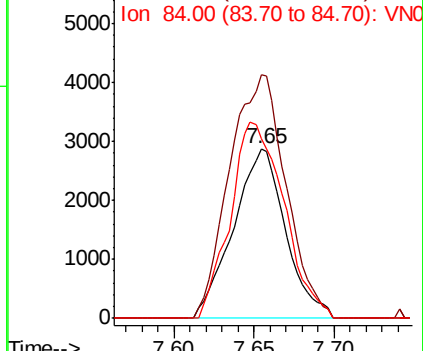
56 100

69 143.5 25.9 38.9#

84 106.1 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 66.322 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057986.D

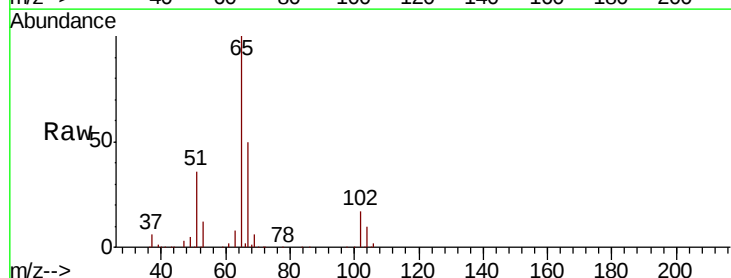
Acq: 12 Sep 2019 21:56

Tgt Ion: 65 Resp: 321349

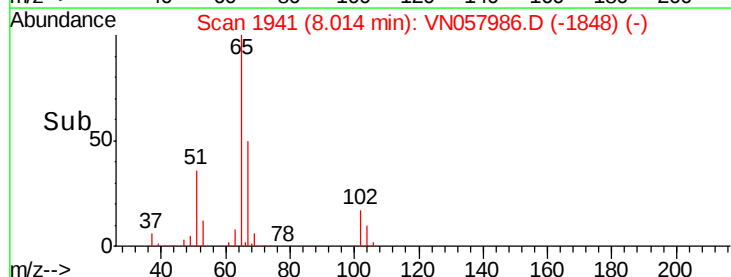
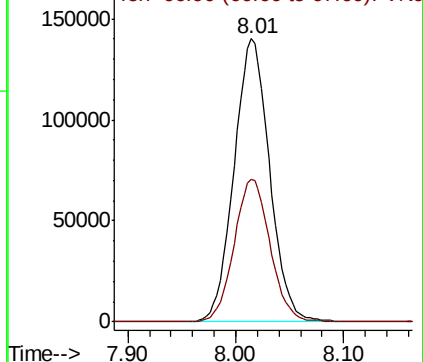
Ion Ratio Lower Upper

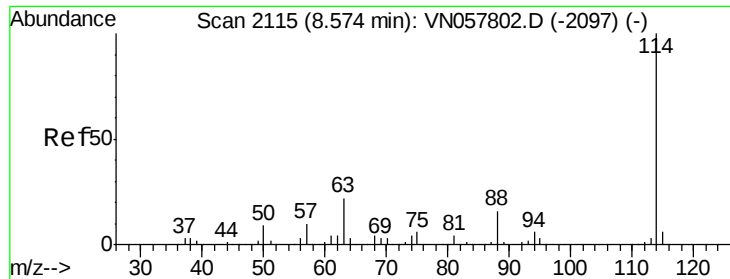
65 100

67 51.0 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

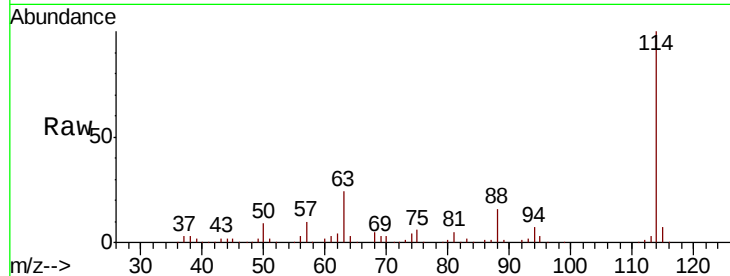




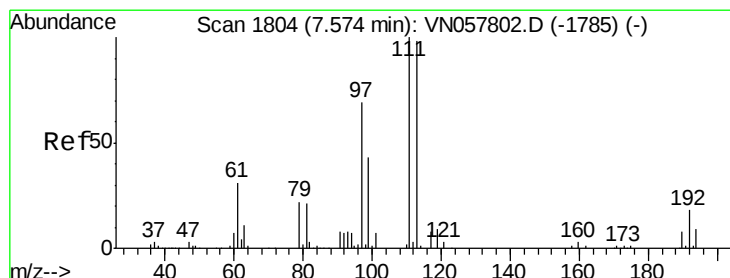
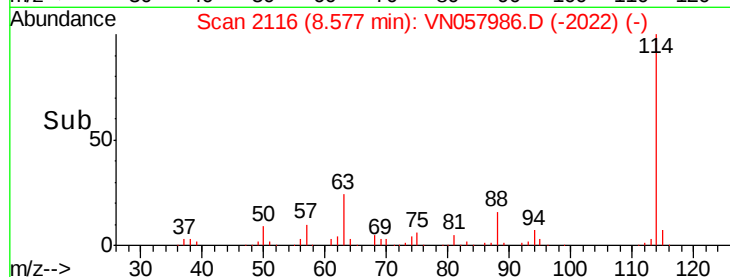
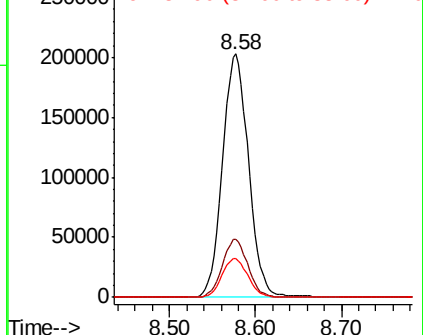
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057986.D
 Acq: 12 Sep 2019 21:56

Instrument :
 MSVOA_N
 ClientSampled :
 T1-3-(1.5)

Tgt Ion:114 Resp: 428729
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 44.0
 88 16.0 0.0 31.4

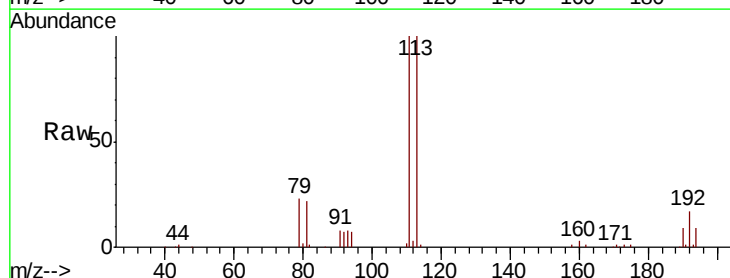


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

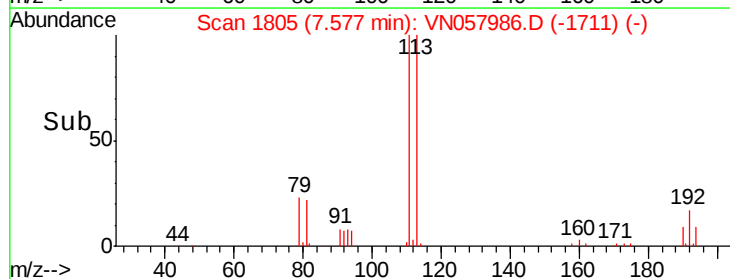
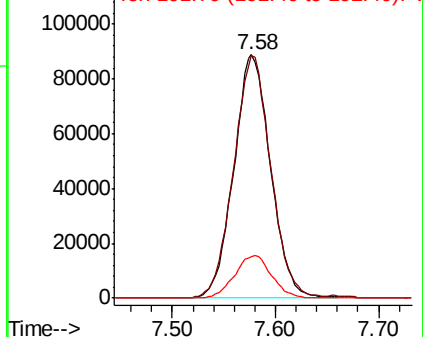


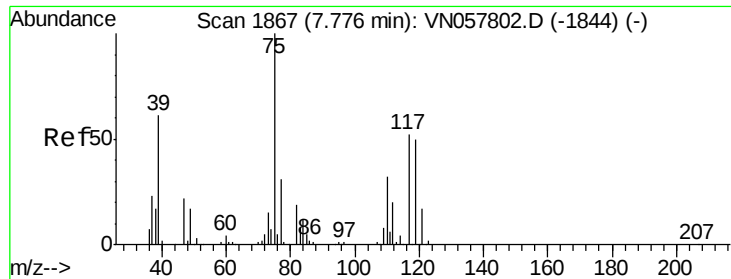
#35
 Dibromofluoromethane
 Concen: 55.644 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057986.D
 Acq: 12 Sep 2019 21:56

Tgt Ion:113 Resp: 220182
 Ion Ratio Lower Upper
 113 100
 111 100.6 81.3 121.9
 192 17.5 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

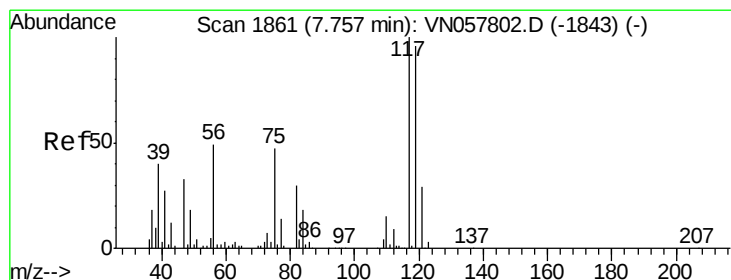
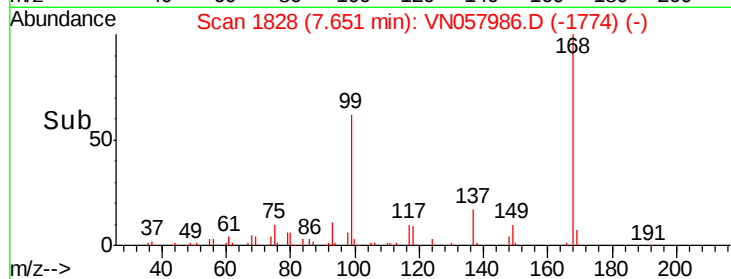
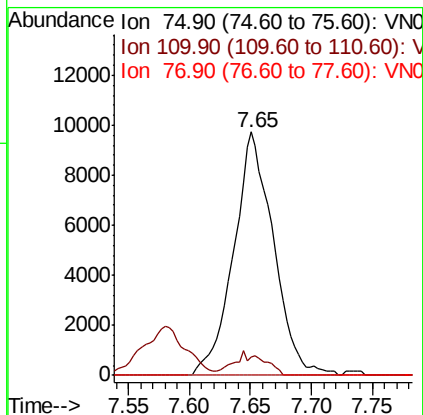
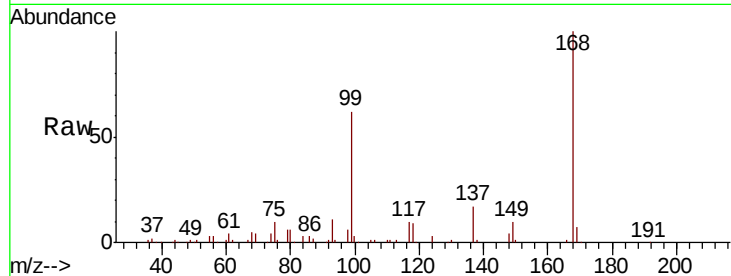




#36
 1,1-Dichloropropene
 Concen: 4.426 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057986.D
 Acq: 12 Sep 2019 21:56

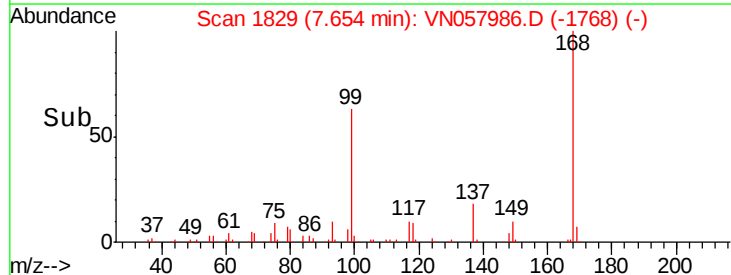
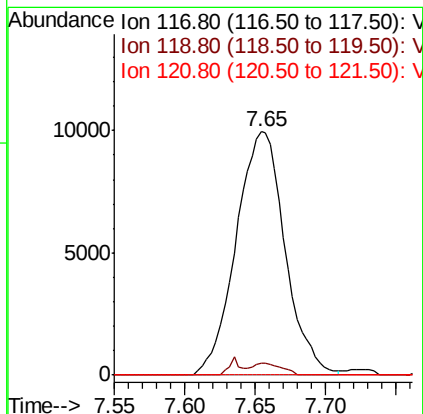
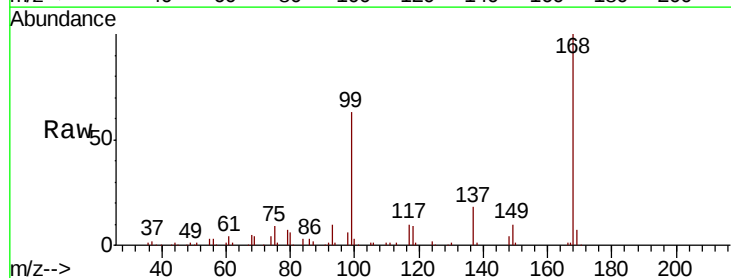
Instrument :
 MSVOA_N
 ClientSampled :
 T1-3-(1.5)

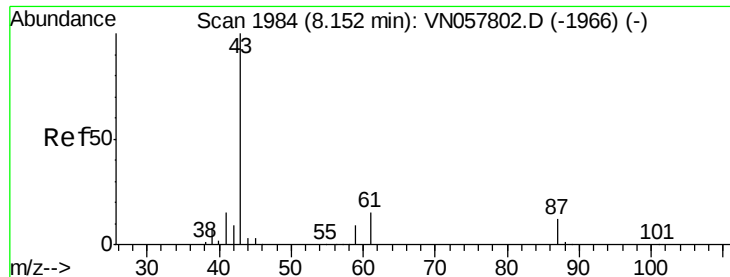
Tgt Ion: 75 Resp: 22006
 Ion Ratio Lower Upper
 75 100
 110 2.9 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.318 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN057986.D
 Acq: 12 Sep 2019 21:56

Tgt Ion: 117 Resp: 24141
 Ion Ratio Lower Upper
 117 100
 119 5.0 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 12.970 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057986.D

Acq: 12 Sep 2019 21:56

Instrument :

MSVOA_N

ClientSampleId :

T1-3-(1.5)

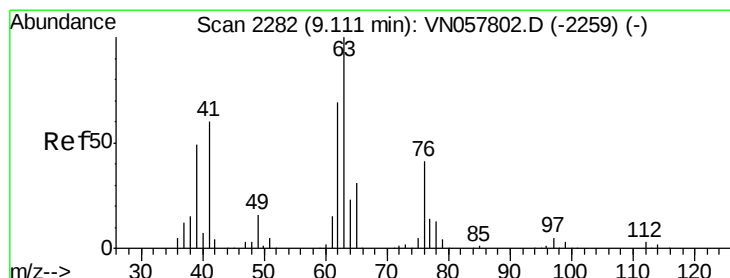
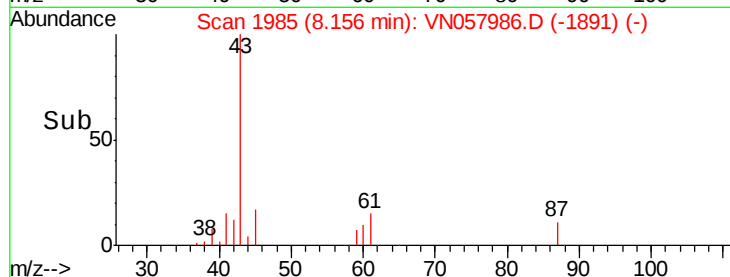
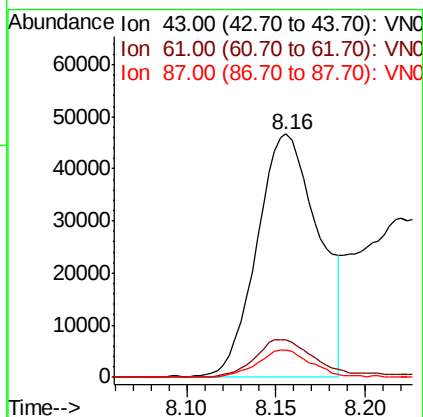
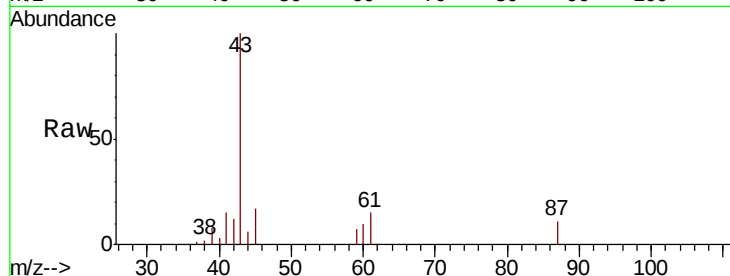
Tgt Ion: 43 Resp: 112045

Ion Ratio Lower Upper

43 100

61 16.0 20.1 30.1#

87 10.1 9.5 14.3



#45

1,2-Dichloropropane

Concen: 0.395 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN057986.D

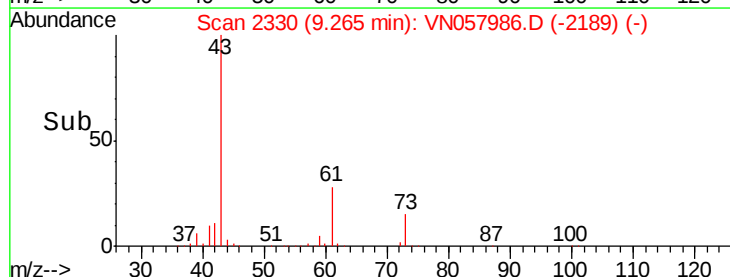
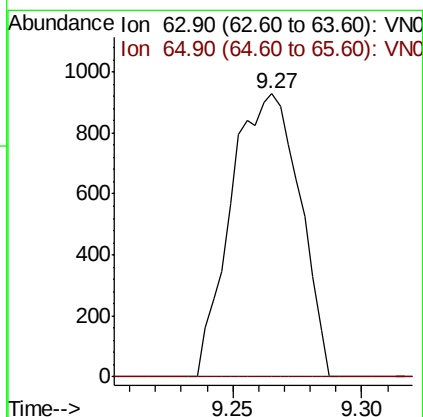
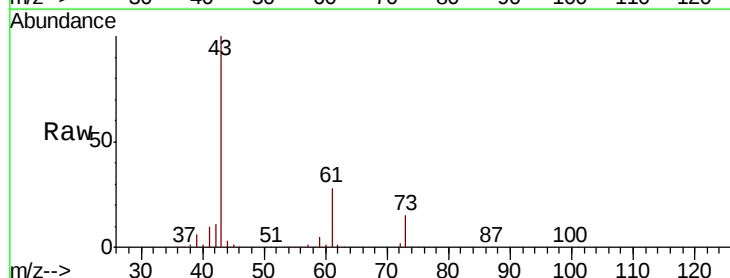
Acq: 12 Sep 2019 21:56

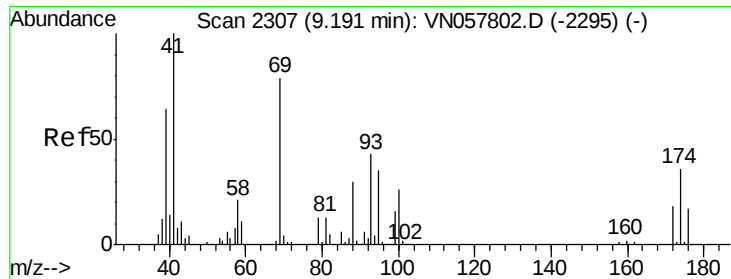
Tgt Ion: 63 Resp: 1722

Ion Ratio Lower Upper

63 100

65 0.0 24.8 37.2#

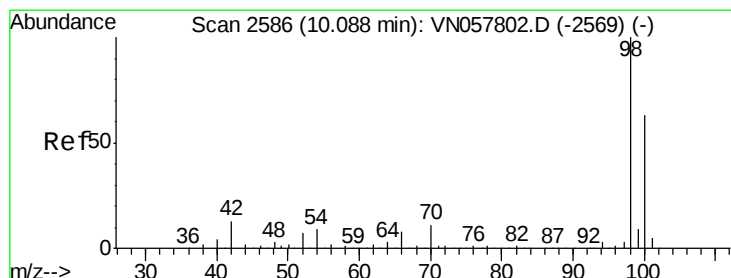
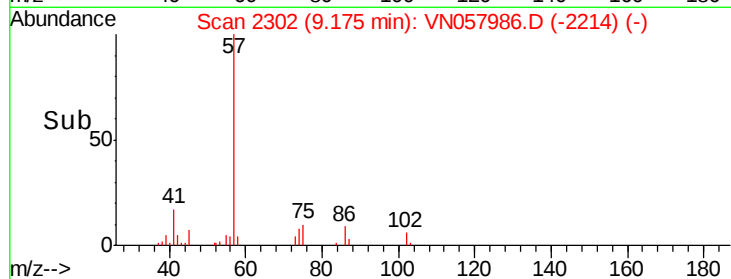
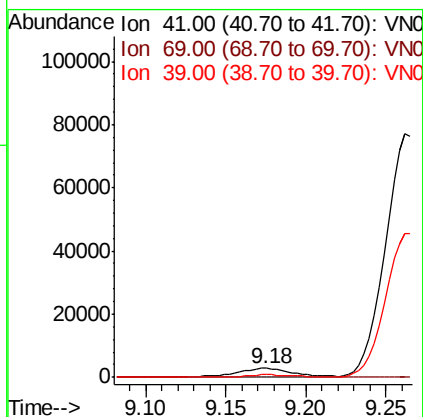
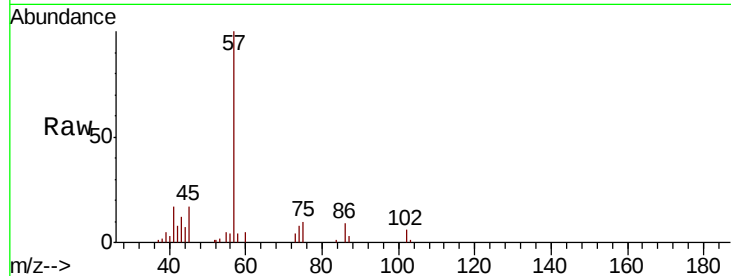




#48
Methyl methacrylate
Concen: 1.580 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057986.D
Acq: 12 Sep 2019 21:56

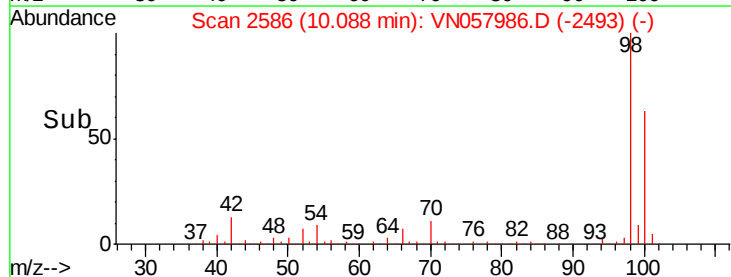
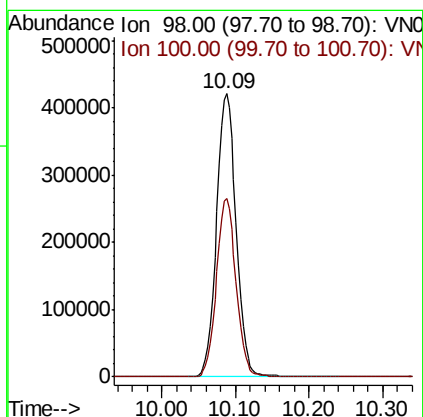
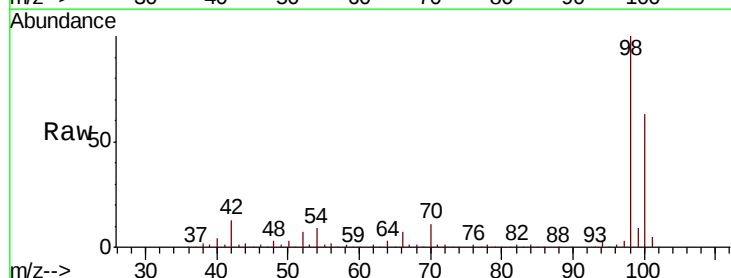
Instrument :
MSVOA_N
ClientSampled :
T1-3-(1.5)

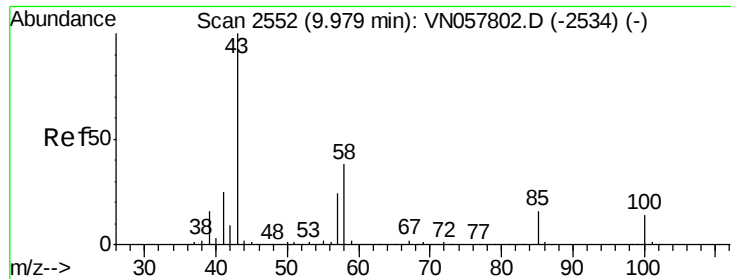
Tgt Ion: 41 Resp: 6923
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#50
Toluene-d8
Concen: 50.567 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057986.D
Acq: 12 Sep 2019 21:56

Tgt Ion: 98 Resp: 776871
Ion Ratio Lower Upper
98 100
100 62.8 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.557 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057986.D

Acq: 12 Sep 2019 21:56

Instrument :

MSVOA_N

ClientSampled :

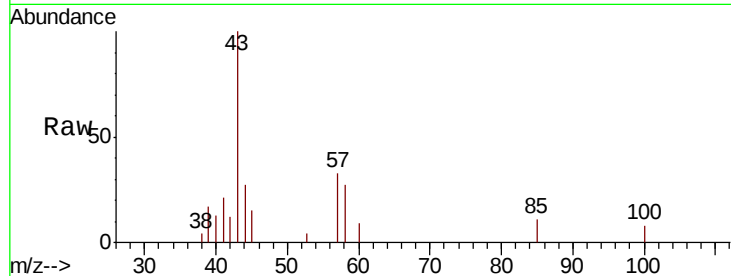
T1-3-(1.5)

Tgt Ion: 43 Resp: 7960

Ion Ratio Lower Upper

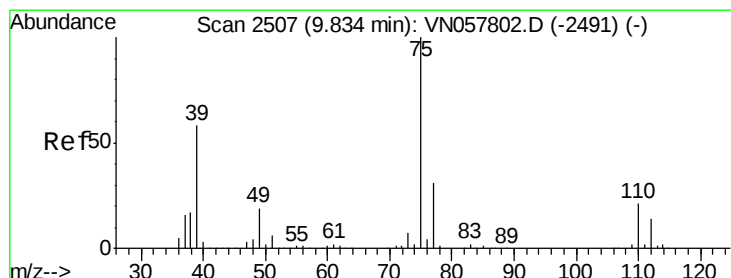
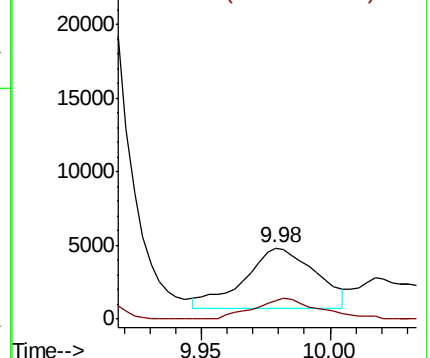
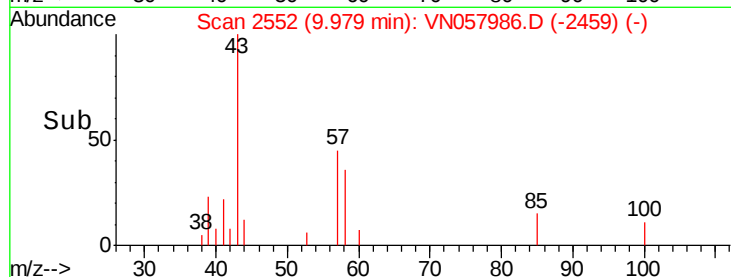
43 100

58 31.6 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.233 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057986.D

Acq: 12 Sep 2019 21:56

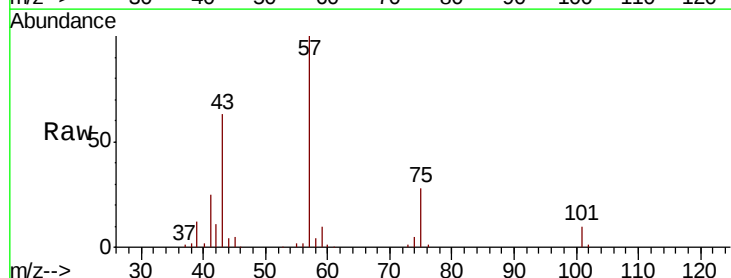
Tgt Ion: 75 Resp: 38091

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

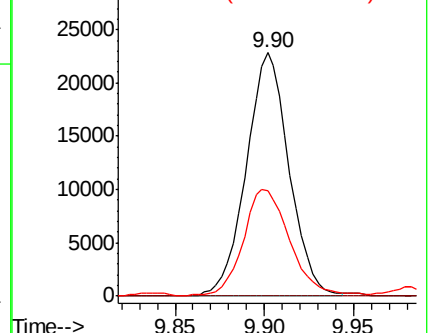
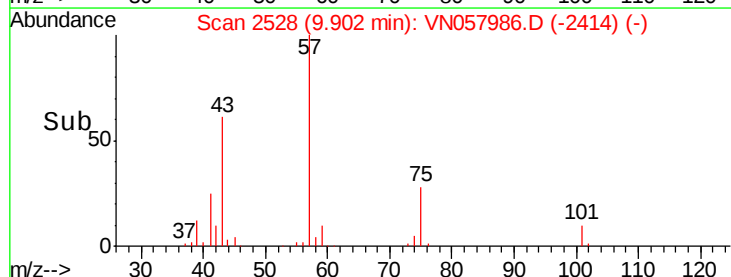
39 42.4 46.2 69.4#

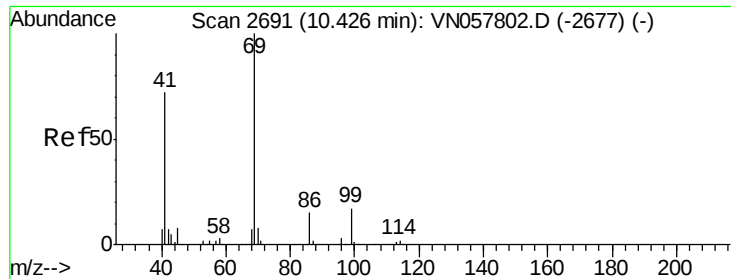


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.339 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN057986.D

Acq: 12 Sep 2019 21:56

Instrument :

MSVOA_N

ClientSampleId :

T1-3-(1.5)

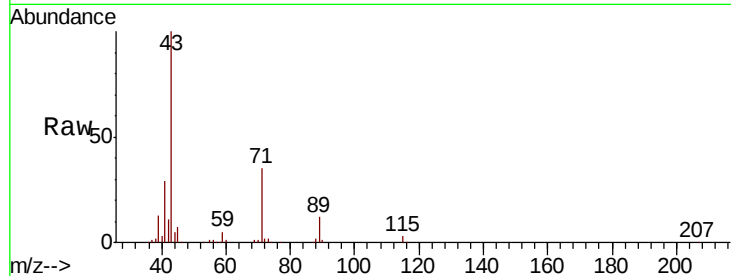
Tgt Ion: 69 Resp: 2037

Ion Ratio Lower Upper

69 100

41 4928.2 56.7 85.1#

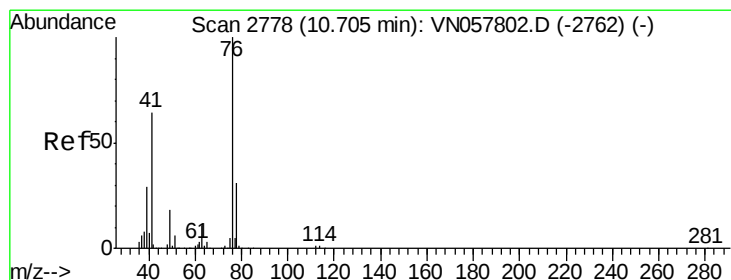
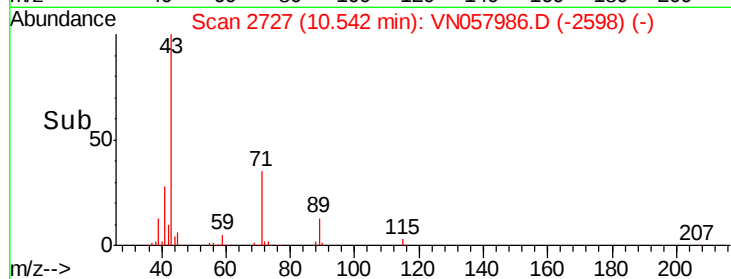
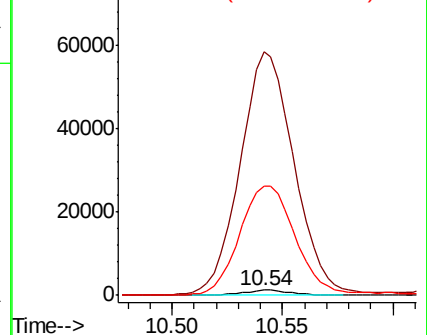
39 2305.6 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VN057986.D (-2677) (-)

Ion 41.00 (40.70 to 41.70): VN057986.D (-2677) (-)

Ion 39.00 (38.70 to 39.70): VN057986.D (-2677) (-)



#57

1,3-Dichloropropane

Concen: 0.849 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057986.D

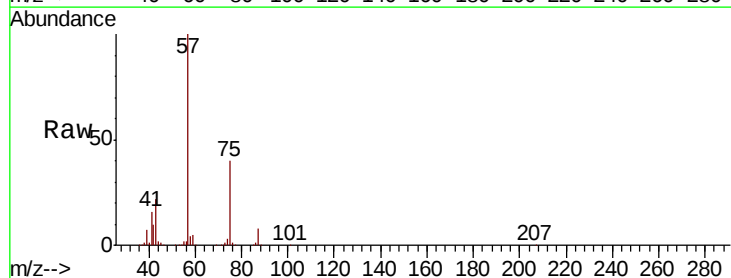
Acq: 12 Sep 2019 21:56

Tgt Ion: 76 Resp: 5841

Ion Ratio Lower Upper

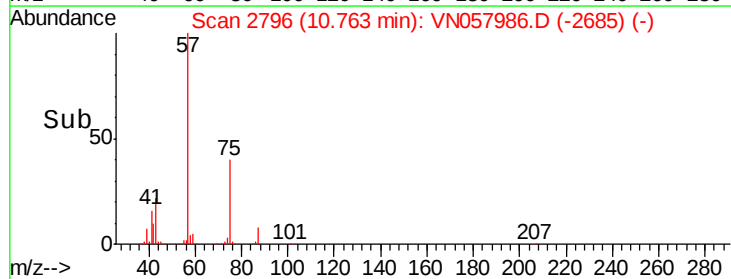
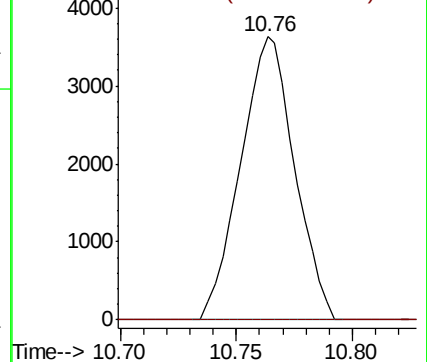
76 100

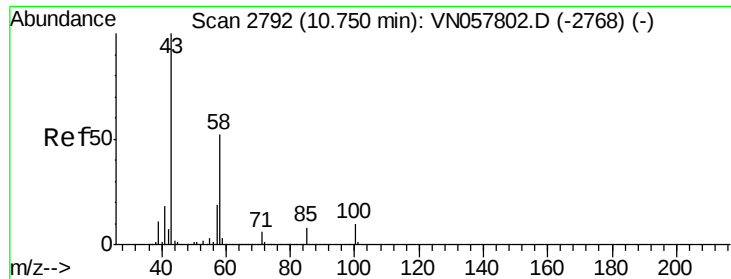
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN057986.D (-2685) (-)

Ion 77.90 (77.60 to 78.60): VN057986.D (-2685) (-)

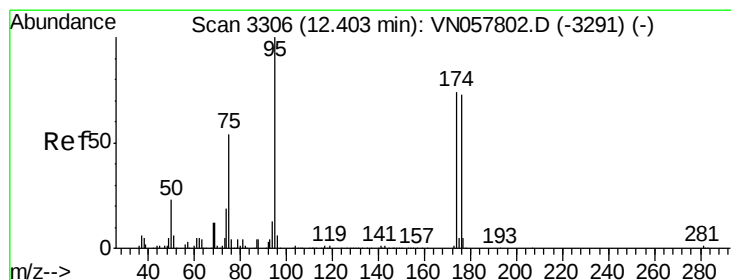
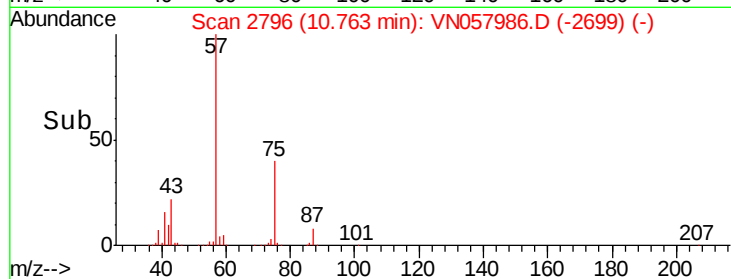
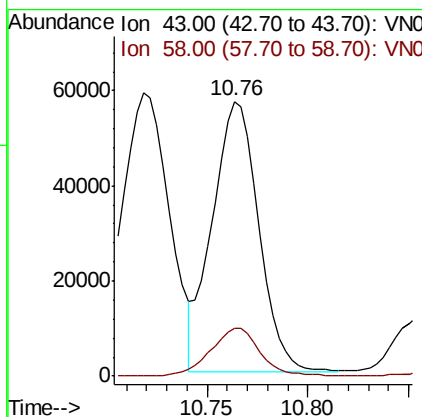
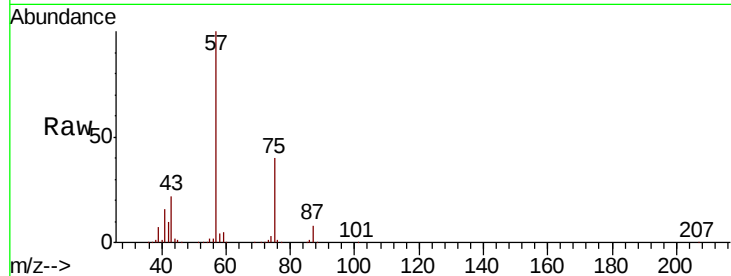




#59
 2-Hexanone
 Concen: 23.761 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057986.D
 Acq: 12 Sep 2019 21:56

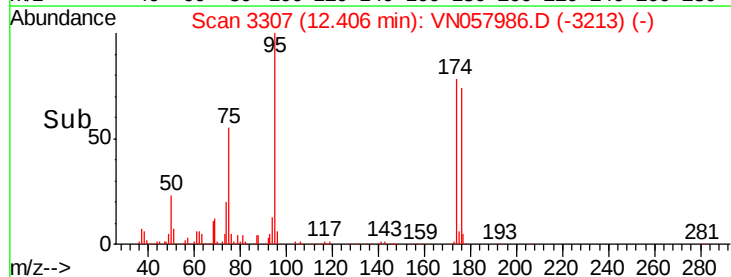
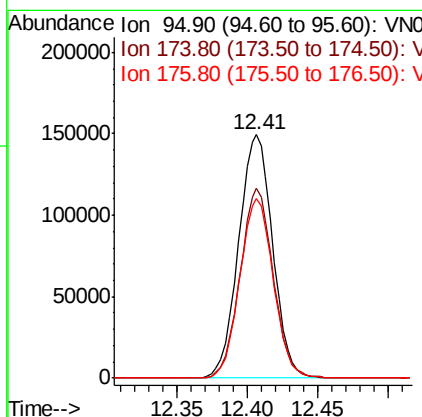
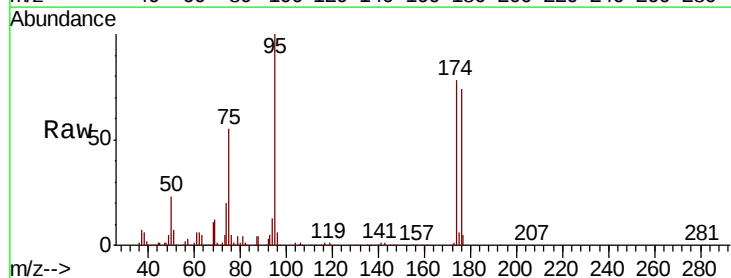
Instrument :
 MSVOA_N
 ClientSampleId :
 T1-3-(1.5)

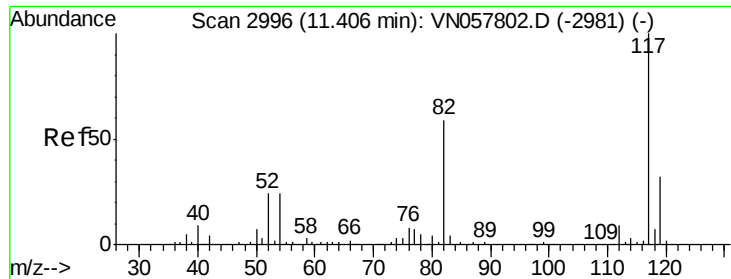
Tgt Ion: 43 Resp: 91047
 Ion Ratio Lower Upper
 43 100
 58 19.0 25.6 76.8#



#62
 4-Bromofluorobenzene
 Concen: 43.089 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN057986.D
 Acq: 12 Sep 2019 21:56

Tgt Ion: 95 Resp: 252276
 Ion Ratio Lower Upper
 95 100
 174 75.9 0.0 150.2
 176 73.1 0.0 146.0

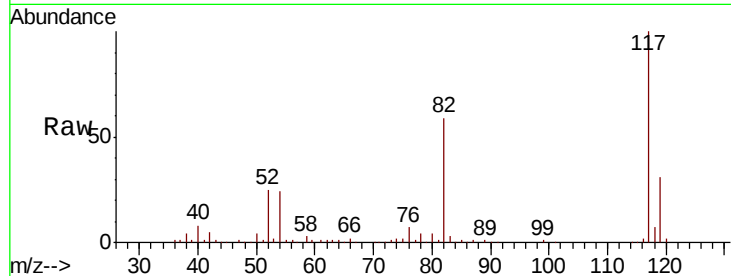




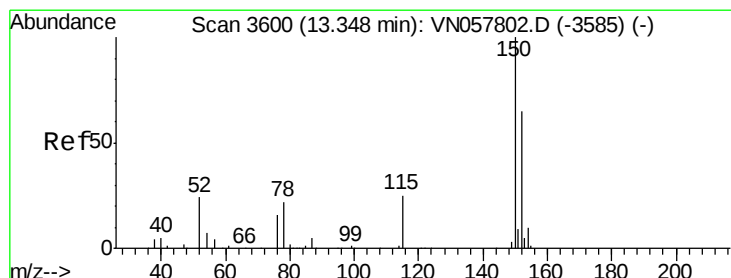
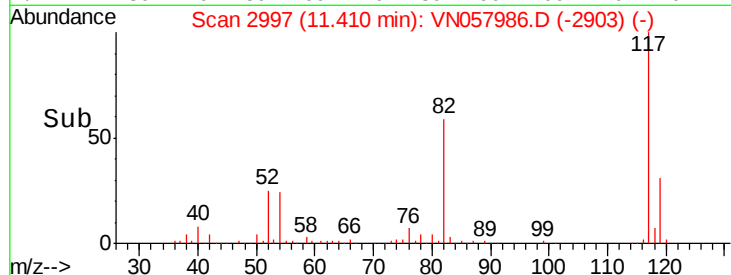
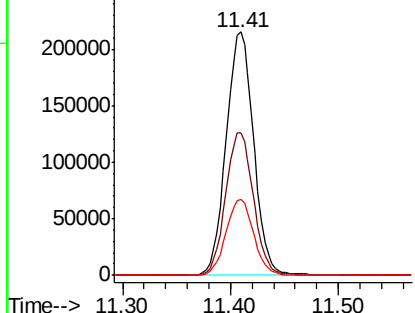
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN057986.D
Acq: 12 Sep 2019 21:56

Instrument :
MSVOA_N
ClientSampled :
T1-3-(1.5)

Tgt Ion:117 Resp: 381773
Ion Ratio Lower Upper
117 100
82 58.7 47.2 70.8
119 31.0 25.3 37.9

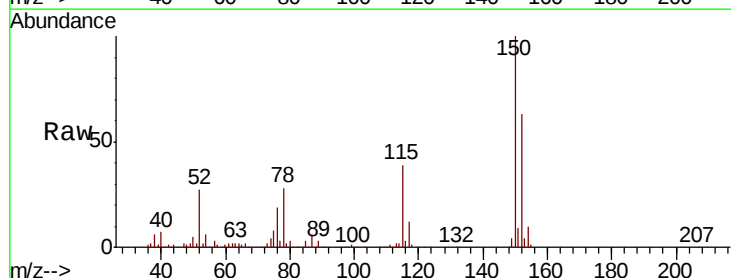


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

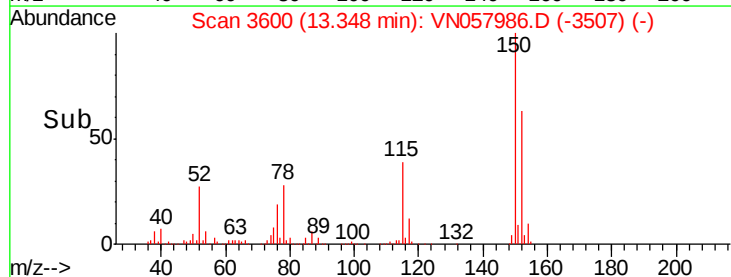
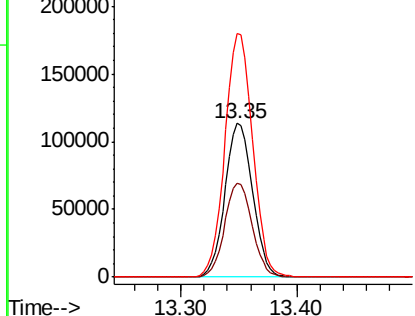


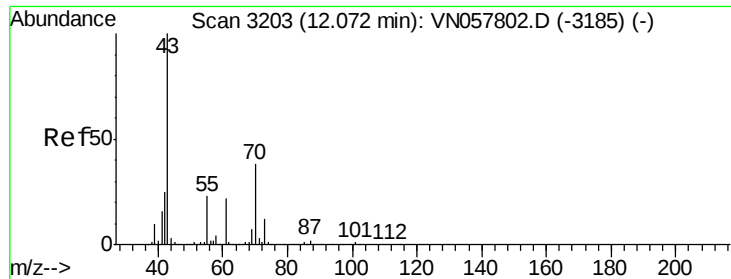
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057986.D
Acq: 12 Sep 2019 21:56

Tgt Ion:152 Resp: 188232
Ion Ratio Lower Upper
152 100
115 60.9 30.3 91.0
150 158.3 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





#74

N-ethyl acetate

Concen: 0.364 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057986.D

Acq: 12 Sep 2019 21:56

Instrument :

MSVOA_N

ClientSampleId :

T1-3-(1.5)

Tgt Ion: 43 Resp: 2314

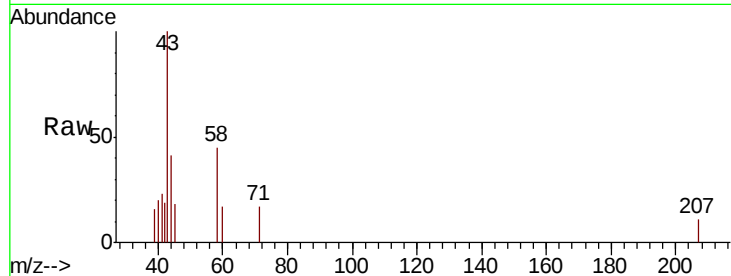
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 9.2 18.6 27.8#

61 0.0 17.4 26.2#

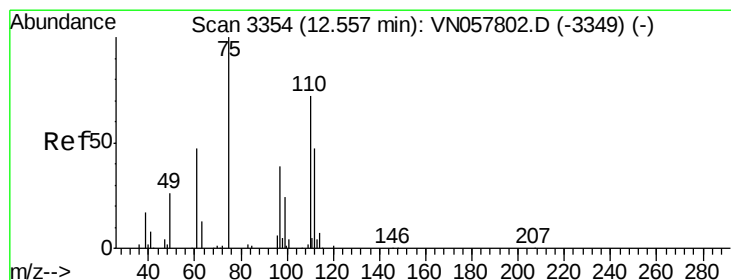
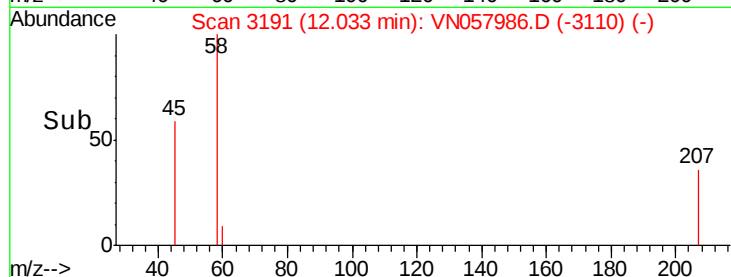
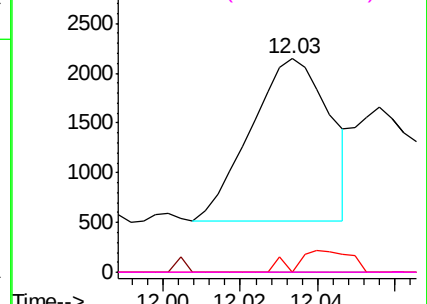


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 32.888 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057986.D

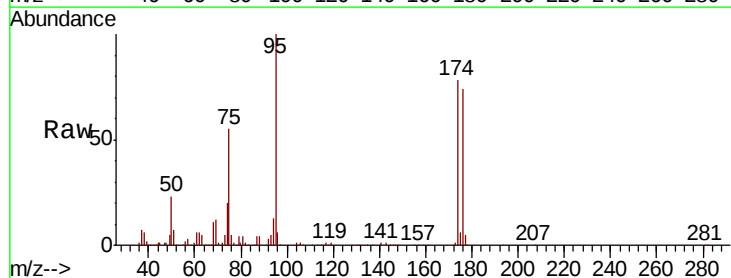
Acq: 12 Sep 2019 21:56

Tgt Ion: 75 Resp: 140041

Ion Ratio Lower Upper

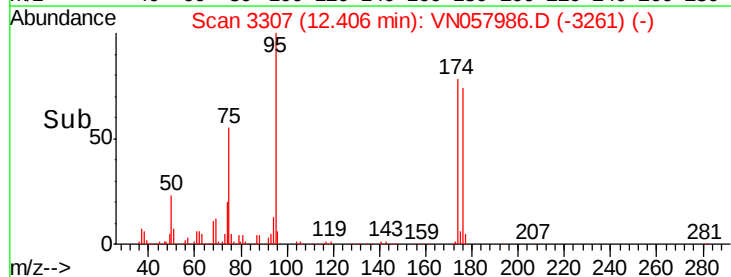
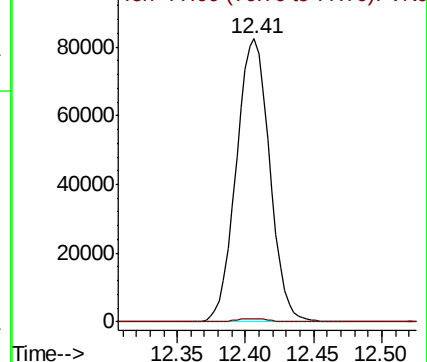
75 100

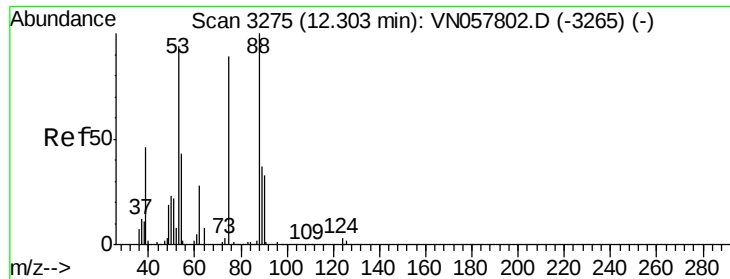
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

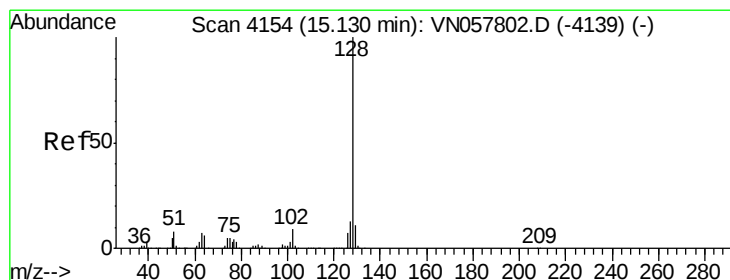
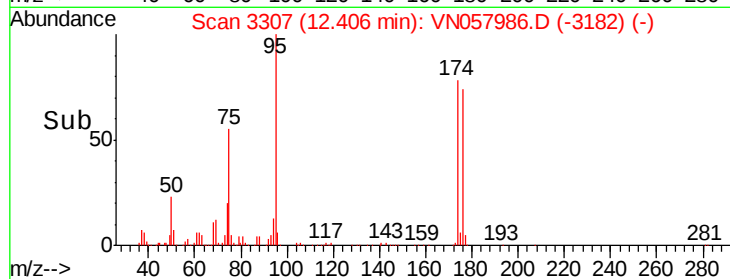
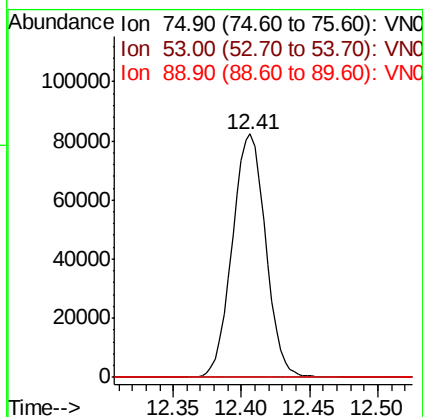
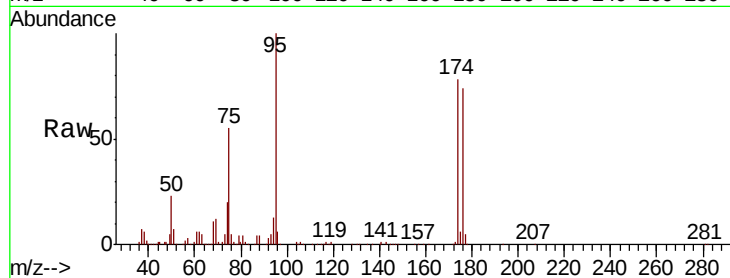




#81
trans-1,4-Dichloro-2-butene
Concen: 115.733 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.10 min
Lab File: VN057986.D
Acq: 12 Sep 2019 21:56

Instrument :
MSVOA_N
ClientSampled :
T1-3-(1.5)

Tgt Ion: 75 Resp: 140041
Ion Ratio Lower Upper
75 100
53 0.0 88.4 132.6#
89 0.0 35.3 52.9#



#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN057986.D
Acq: 12 Sep 2019 21:56

Tgt Ion: 128 Resp: 1110
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 12.8#

