

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057998.D
 Acq On : 13 Sep 2019 2:21
 Operator : JC/SP
 Sample : K4644-28
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E4-(0)

Quant Time: Sep 13 04:54:18 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	242739	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	433696	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	383048	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	194449	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	301184	61.26	ug/l	0.00
Spiked Amount			Recovery	=	122.52%	
35) Dibromofluoromethane	7.58	113	199879	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
50) Toluene-d8	10.09	98	710850	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	
62) 4-Bromofluorobenzene	12.41	95	233496	39.42	ug/l	0.00
Spiked Amount			Recovery	=	78.84%	

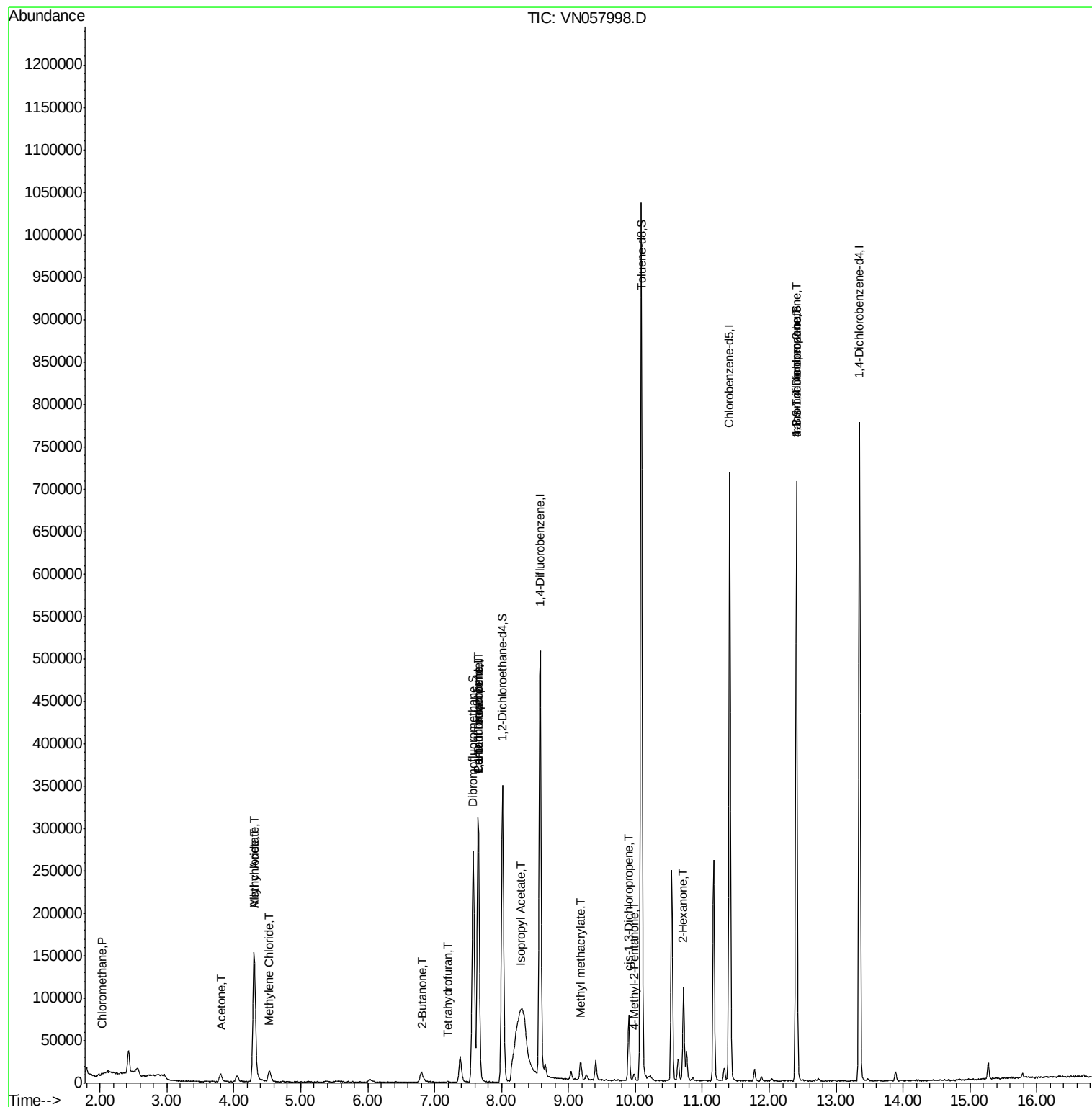
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	694	0.203	ug/l #	43
5) Bromomethane	2.55	94	233	Below Cal	#	63
14) Allyl chloride	4.30	41	5826	1.152	ug/l #	23
16) Acetone	3.80	43	16703	10.363	ug/l	100
18) Methyl Acetate	4.30	43	293189	68.226	ug/l	99
20) Methylene Chloride	4.53	84	9098	1.778	ug/l #	90
25) 2-Butanone	6.82	43	899	0.385	ug/l	92
29) Tetrahydrofuran	7.21	42	458	0.319	ug/l #	34
31) Cyclohexane	7.65	56	6595	Below Cal	#	24
36) 1,1-Dichloropropene	7.65	75	22343	4.442	ug/l #	51
38) Carbon Tetrachloride	7.66	117	25588	5.572	ug/l #	17
43) Isopropyl Acetate	8.27	43	152672	17.470	ug/l #	56
48) Methyl methacrylate	9.17	41	3203	0.723	ug/l #	39
51) 4-Methyl-2-Pentanone	9.98	43	5635	1.090	ug/l	91
54) cis-1,3-Dichloropropene	9.90	75	12995	2.102	ug/l #	69
59) 2-Hexanone	10.72	43	86361	22.280	ug/l #	27
76) 1,2,3-Trichloropropane	12.40	75	128110	29.124	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	128110	102.488	ug/l #	6
95) Naphthalene	15.14	128	462	Below Cal	#	69

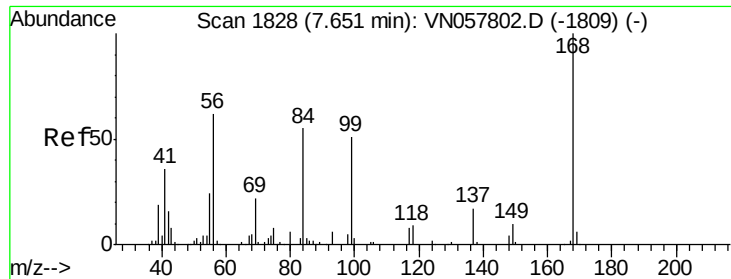
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057998.D

Acq: 13 Sep 2019 2:21

Instrument :

MSVOA_N

ClientSampled :

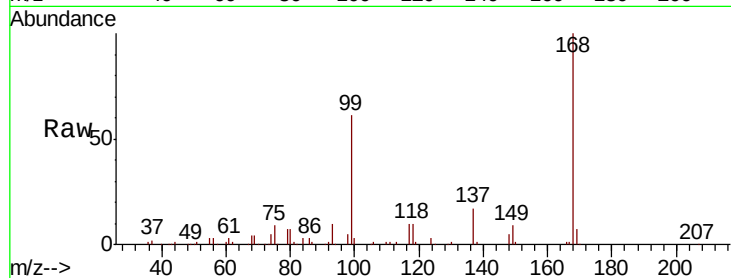
T11-E4-(0)

Tgt Ion:168 Resp: 242739

Ion Ratio Lower Upper

168 100

99 61.3 48.0 72.0



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

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

7.65

100000

80000

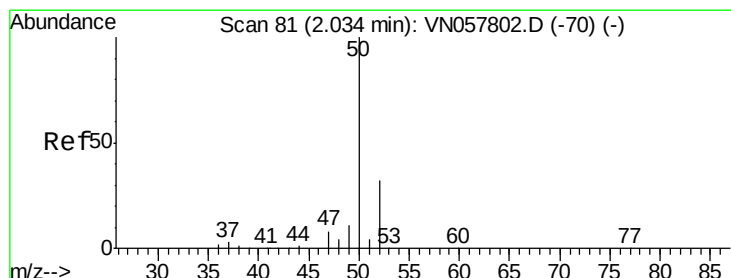
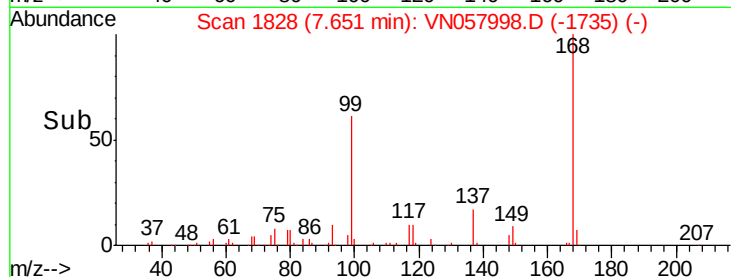
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.203 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN057998.D

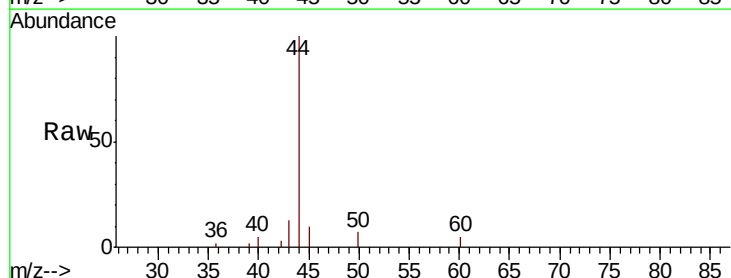
Acq: 13 Sep 2019 2:21

Tgt Ion: 50 Resp: 694

Ion Ratio Lower Upper

50 100

52 0.0 25.5 38.3#



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

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

2.03

600

500

400

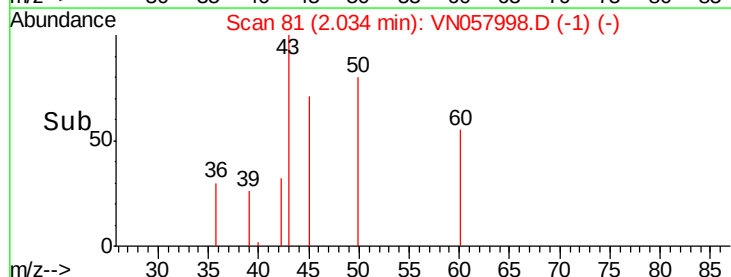
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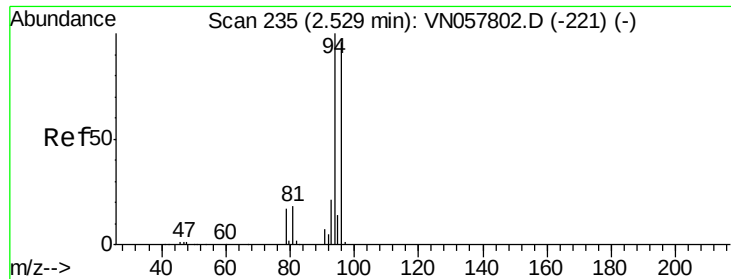
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN057998.D

Acq: 13 Sep 2019 2:21

Instrument :

MSVOA_N

ClientSampleId :

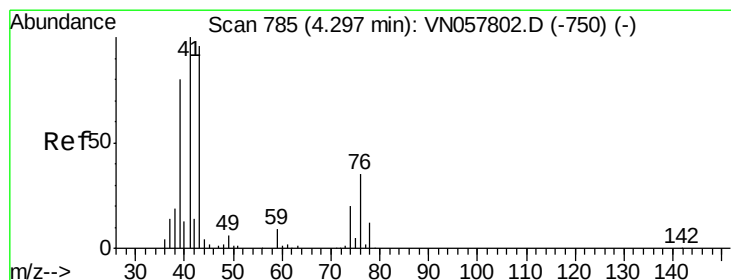
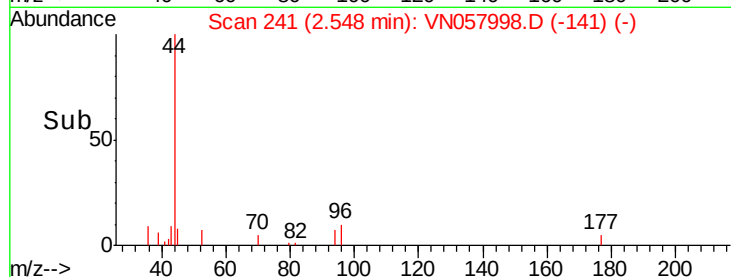
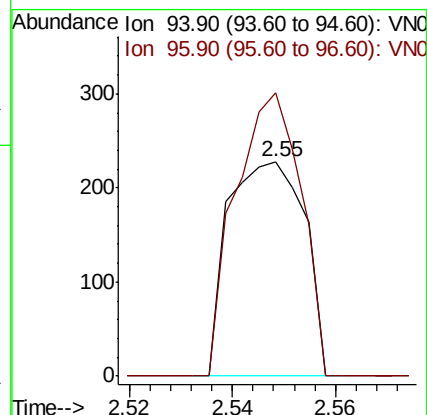
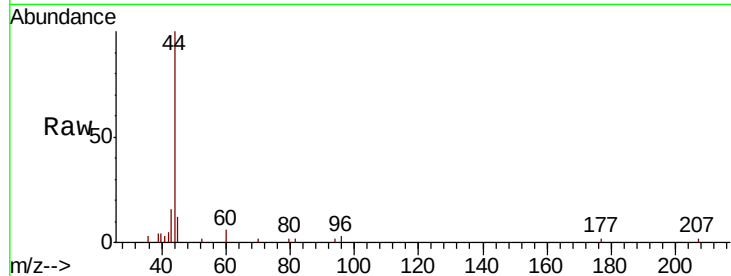
T11-E4-(0)

Tgt Ion: 94 Resp: 233

Ion Ratio Lower Upper

94 100

96 132.0 77.0 115.4#



#14

Allyl chloride

Concen: 1.152 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN057998.D

Acq: 13 Sep 2019 2:21

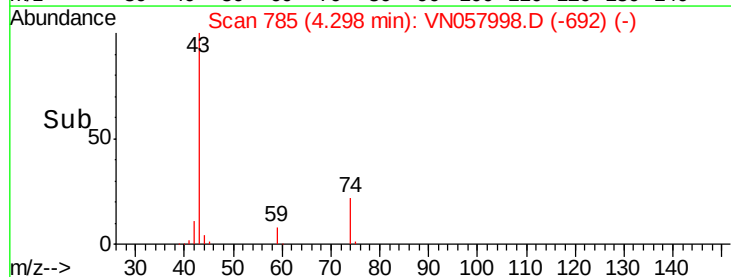
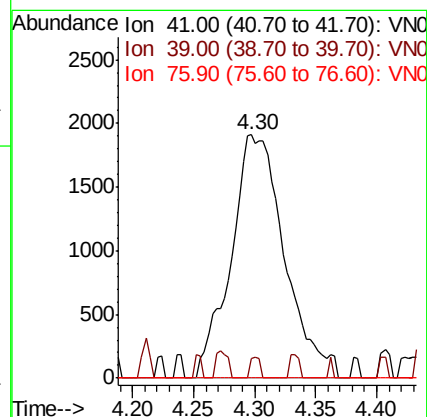
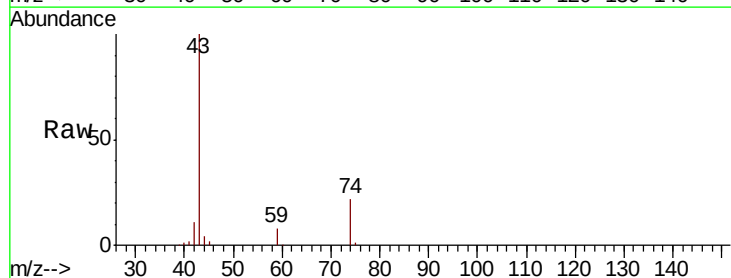
Tgt Ion: 41 Resp: 5826

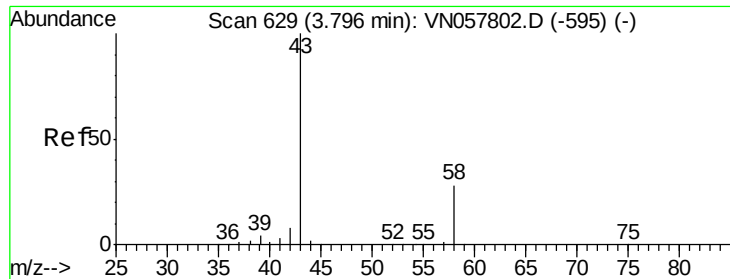
Ion Ratio Lower Upper

41 100

39 1.5 59.4 89.2#

76 0.0 26.0 39.0#

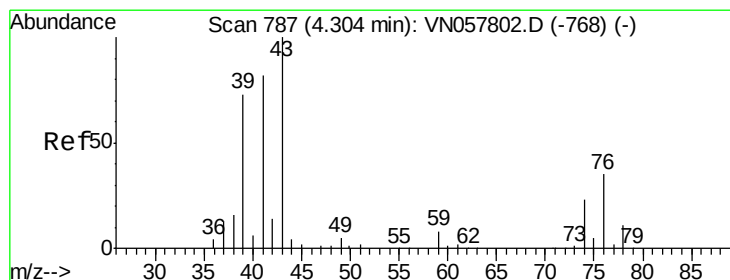
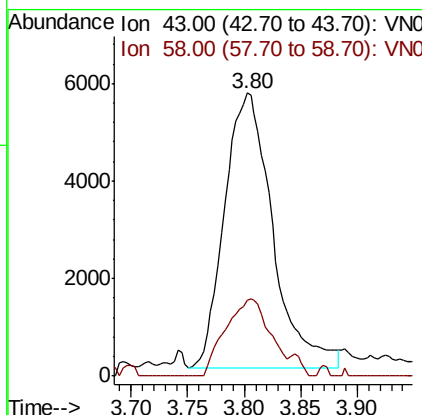
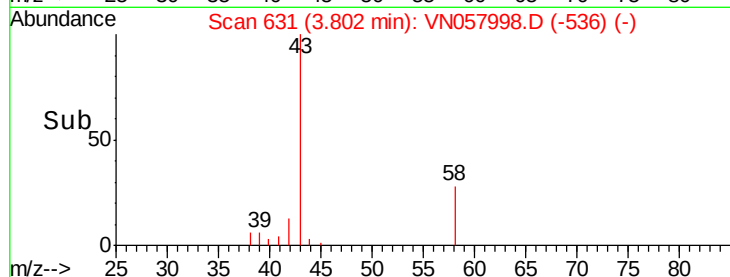
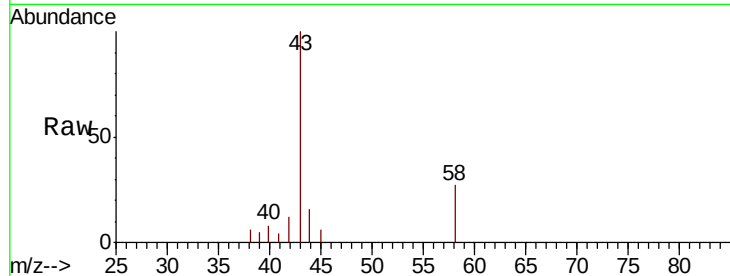




#16
 Acetone
 Concen: 10.363 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN057998.D
 Acq: 13 Sep 2019 2:21

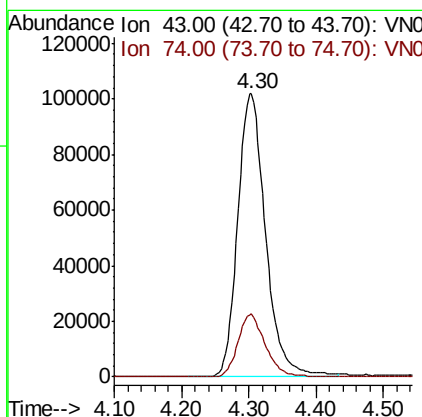
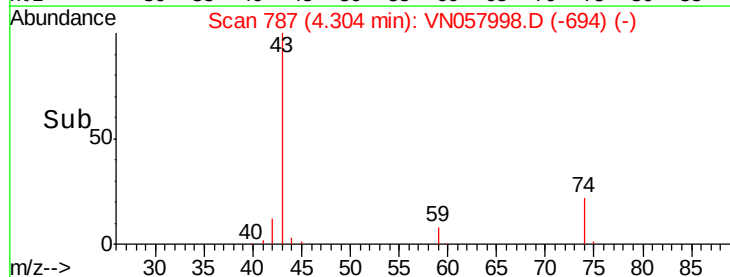
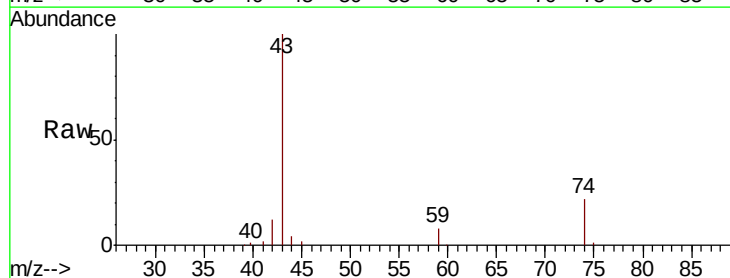
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E4-(0)

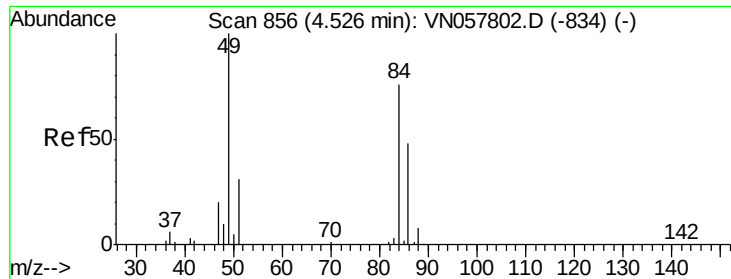
Tgt Ion: 43 Resp: 16703
 Ion Ratio Lower Upper
 43 100
 58 27.7 22.2 33.2



#18
 Methyl Acetate
 Concen: 68.226 ug/l
 RT: 4.30 min Scan# 787
 Delta R.T. 0.00 min
 Lab File: VN057998.D
 Acq: 13 Sep 2019 2:21

Tgt Ion: 43 Resp: 293189
 Ion Ratio Lower Upper
 43 100
 74 21.8 17.9 26.9

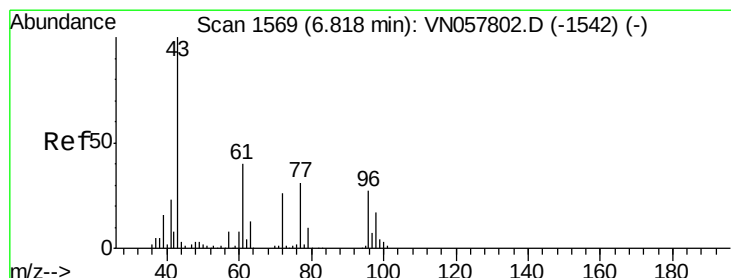
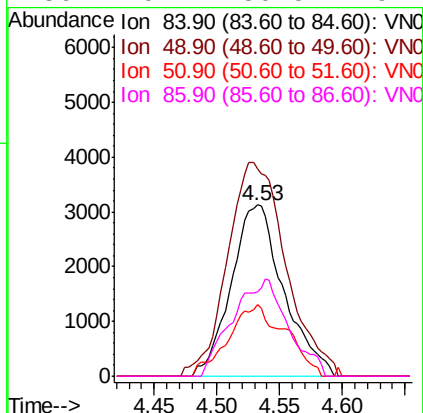
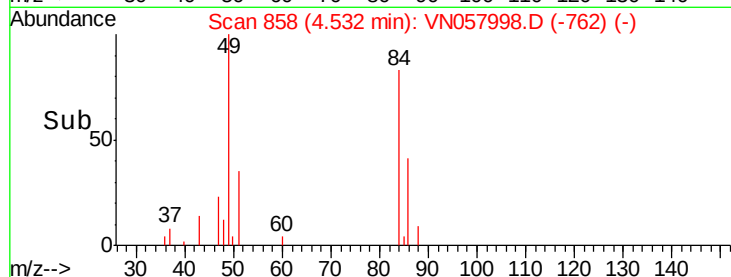
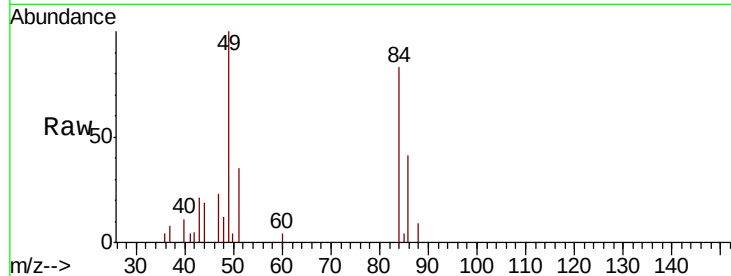




#20
Methylene Chloride
Concen: 1.778 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057998.D
Acq: 13 Sep 2019 2:21

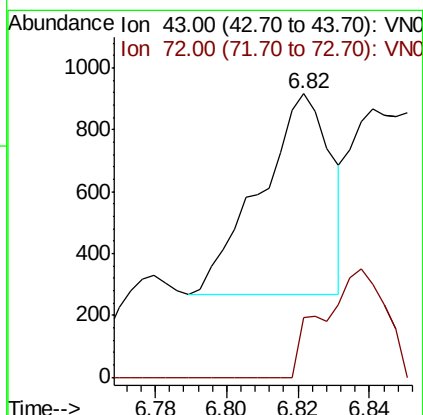
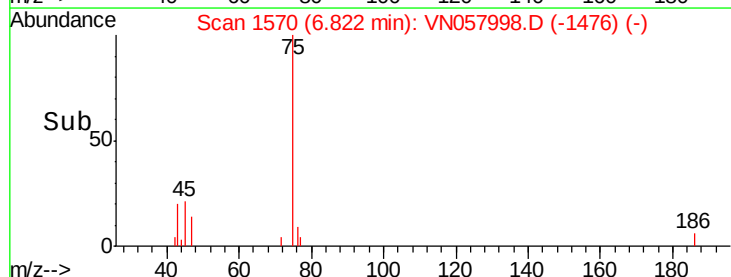
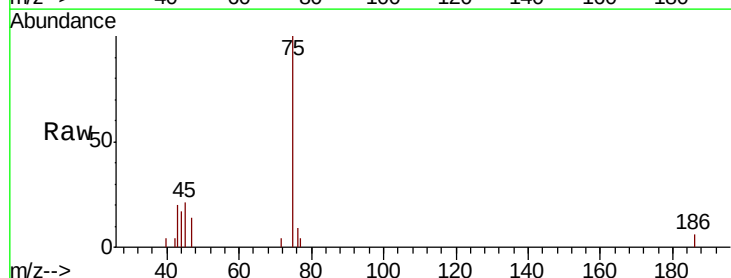
Instrument :
MSVOA_N
ClientSampleId :
T11-E4-(0)

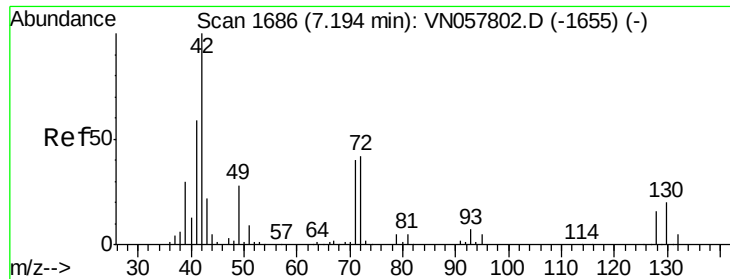
Tgt Ion: 84 Resp: 9098
Ion Ratio Lower Upper
84 100
49 120.9 104.8 157.2
51 41.8 33.0 49.4
86 49.2 50.5 75.7#



#25
2-Butanone
Concen: 0.385 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.00 min
Lab File: VN057998.D
Acq: 13 Sep 2019 2:21

Tgt Ion: 43 Resp: 899
Ion Ratio Lower Upper
43 100
72 29.6 20.6 30.8





#29

Tetrahydrofuran

Concen: 0.319 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.02 min

Lab File: VN057998.D

Acq: 13 Sep 2019 2:21

Instrument :

MSVOA_N

ClientSampleId :

T11-E4-(0)

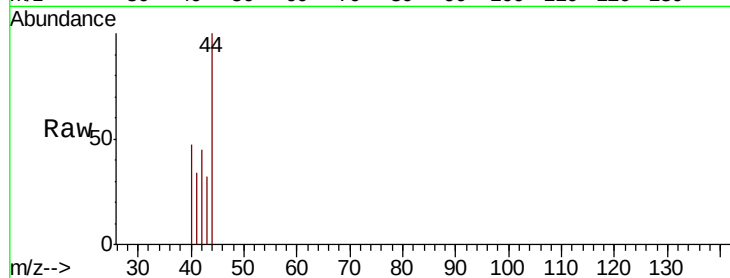
Tgt Ion: 42 Resp: 458

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VN0

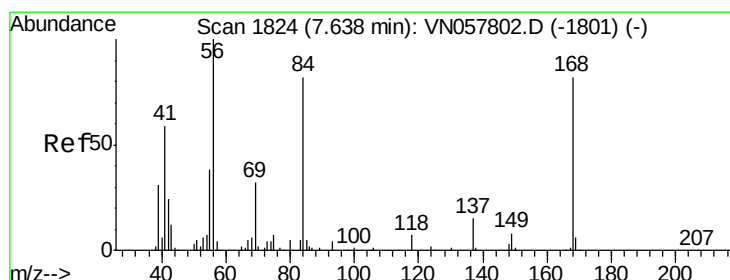
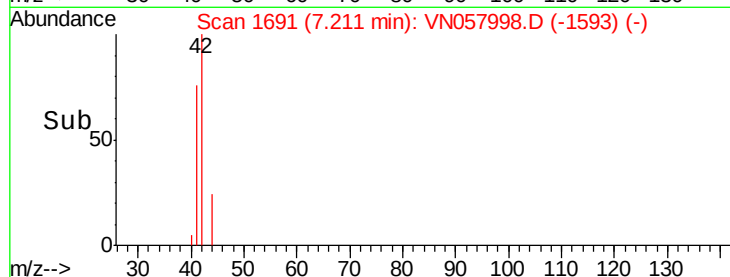
Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

7.21

7.16 7.18 7.20 7.22

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN057998.D

Acq: 13 Sep 2019 2:21

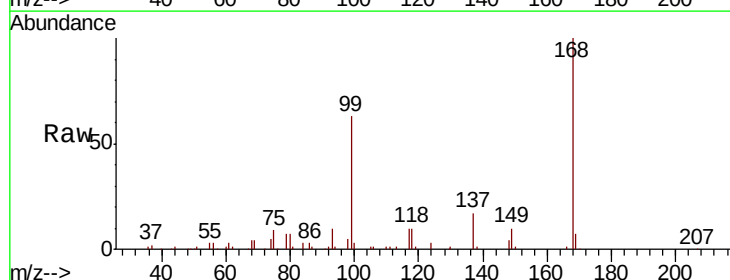
Tgt Ion: 56 Resp: 6595

Ion Ratio Lower Upper

56 100

69 139.8 25.9 38.9#

84 109.3 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

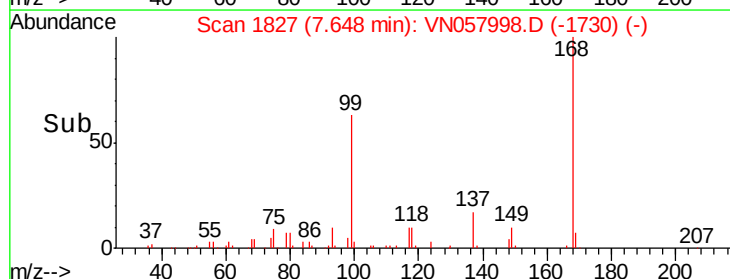
Ion 69.00 (68.70 to 69.70): VN0

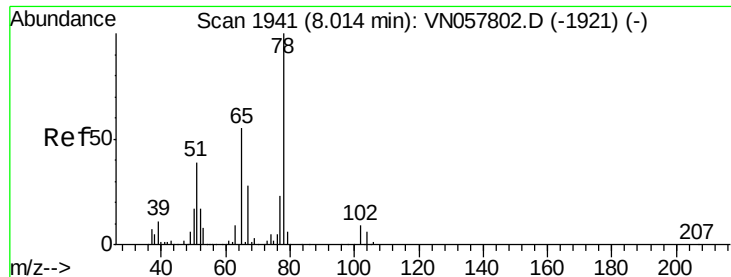
Ion 84.00 (83.70 to 84.70): VN0

7.65

7.55 7.60 7.65 7.70

Time-->

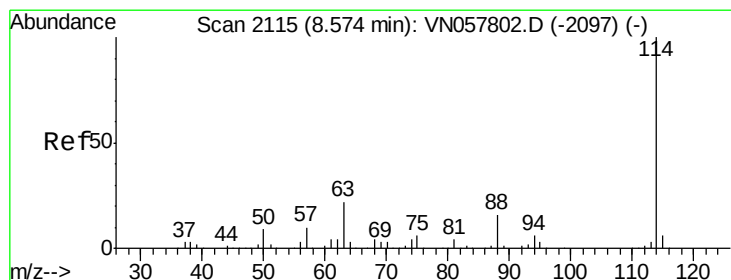
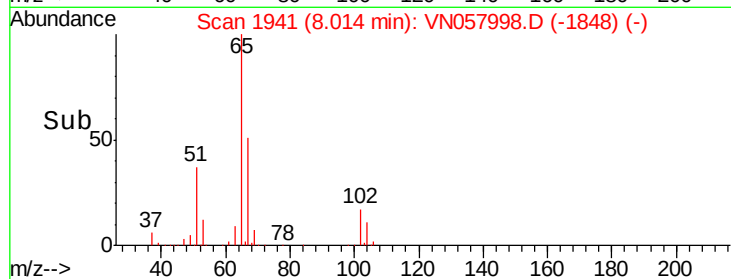
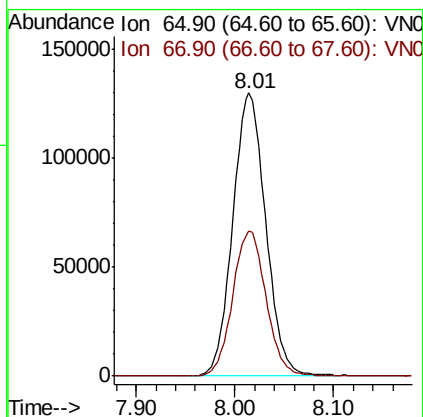
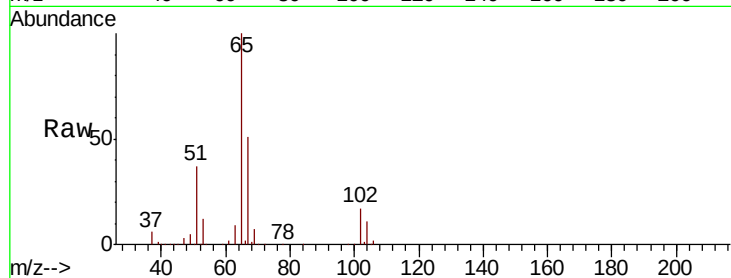




#33
 1,2-Dichloroethane-d4
 Concen: 61.260 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057998.D
 Acq: 13 Sep 2019 2:21

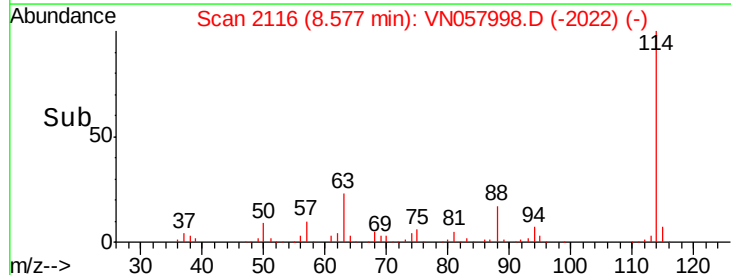
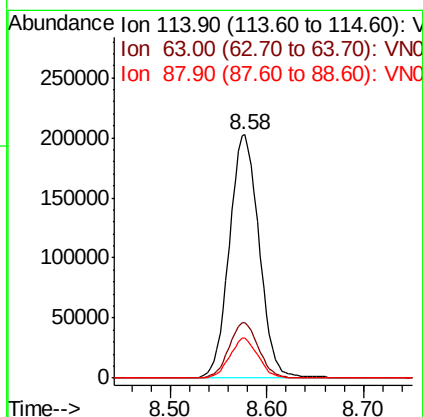
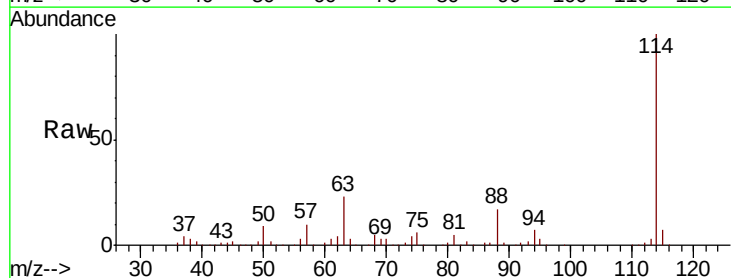
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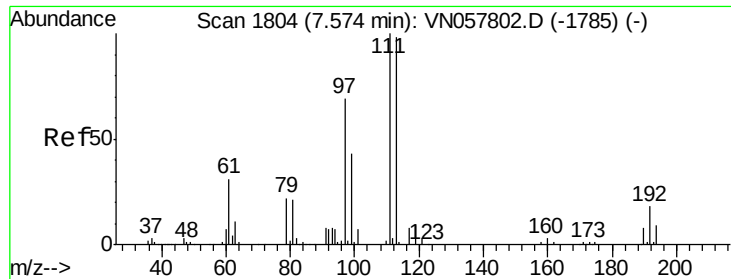
Tgt Ion: 65 Resp: 301184
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057998.D
 Acq: 13 Sep 2019 2:21

Tgt Ion: 114 Resp: 433696
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 44.0
 88 16.6 0.0 31.4

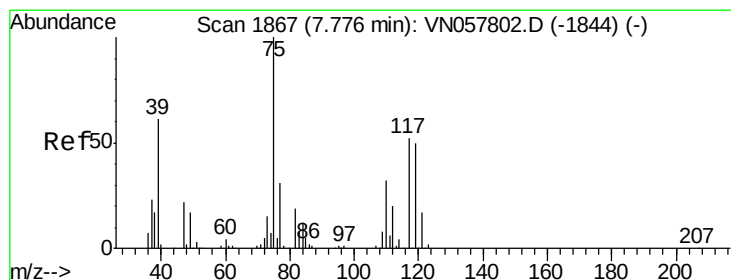
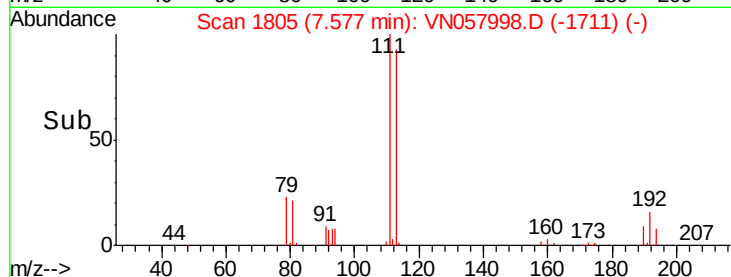
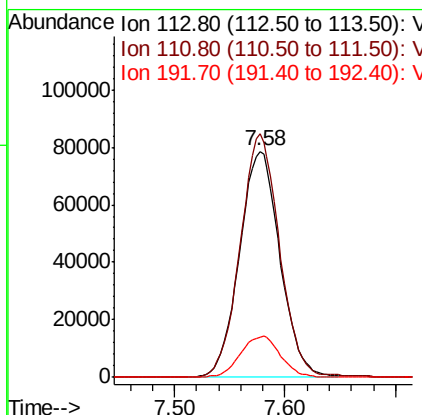
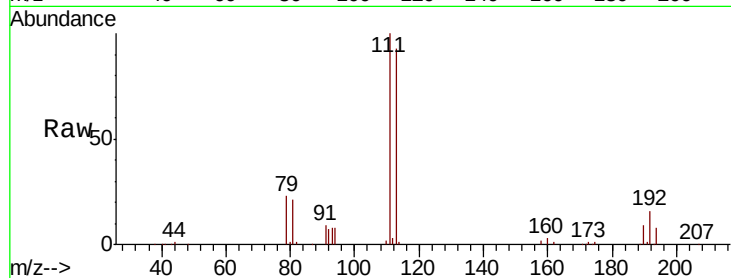




#35
 Dibromofluoromethane
 Concen: 49.934 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057998.D
 Acq: 13 Sep 2019 2:21

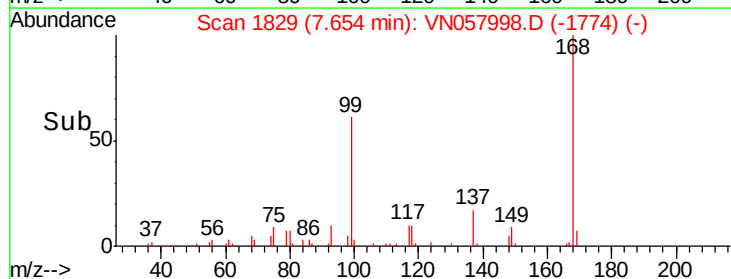
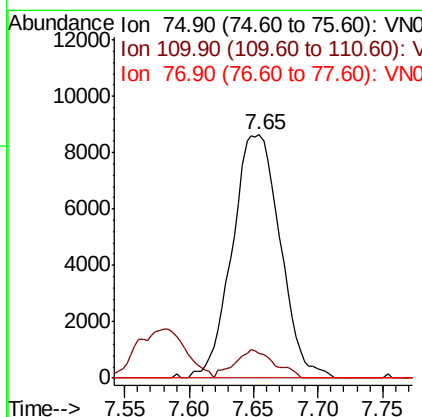
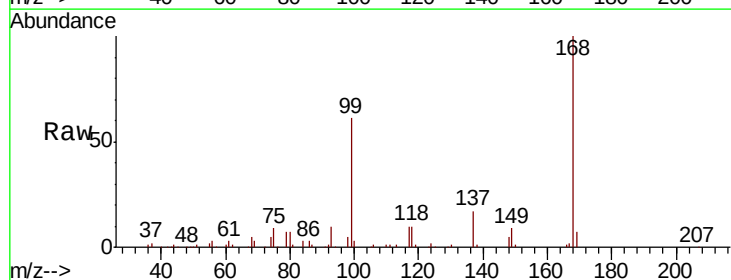
Instrument :
 MSVOA_N
 ClientSampled :
 T11-E4-(0)

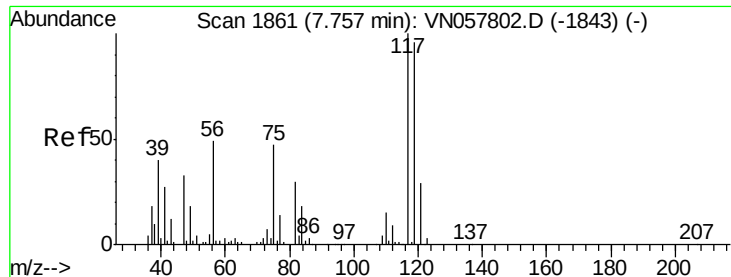
Tgt Ion	Ratio	Resp	Lower	Upper
113	100	199879		
111	104.6	81.3	121.9	
192	17.9	14.6	22.0	



#36
 1,1-Dichloropropene
 Concen: 4.442 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057998.D
 Acq: 13 Sep 2019 2:21

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	22343		
110	9.7	16.3	48.9#	
77	0.0	25.0	37.4#	





#38

Carbon Tetrachloride

Concen: 5.572 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. -0.10 min

Lab File: VN057998.D

Acq: 13 Sep 2019 2:21

Instrument :

MSVOA_N

ClientSampled :

T11-E4-(0)

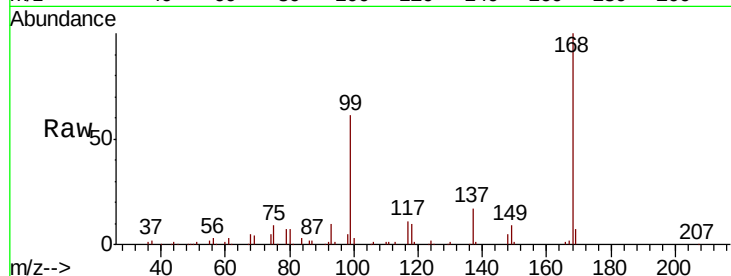
Tgt Ion:117 Resp: 25588

Ion Ratio Lower Upper

117 100

119 6.8 76.9 115.3#

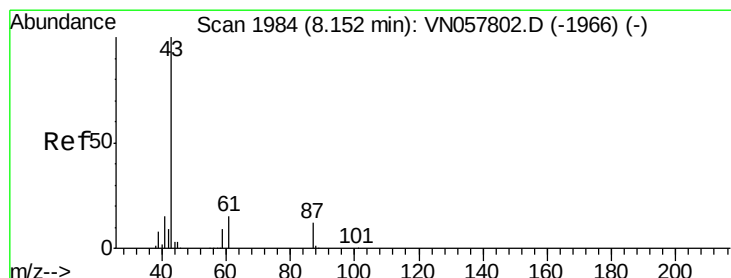
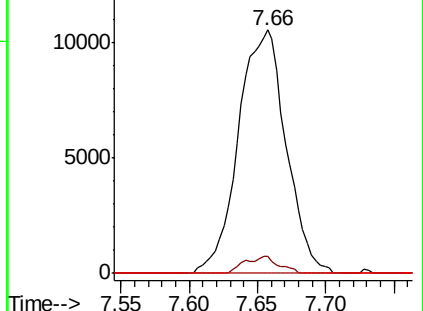
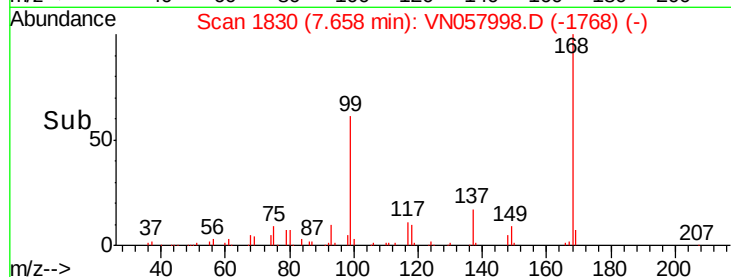
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 17.470 ug/l

RT: 8.27 min Scan# 2021

Delta R.T. 0.12 min

Lab File: VN057998.D

Acq: 13 Sep 2019 2:21

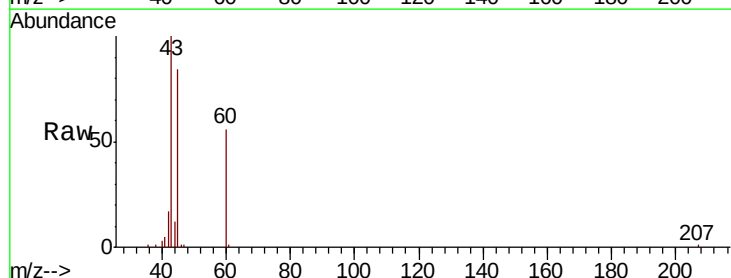
Tgt Ion: 43 Resp: 152672

Ion Ratio Lower Upper

43 100

61 0.2 20.1 30.1#

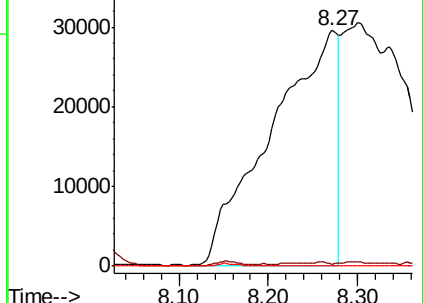
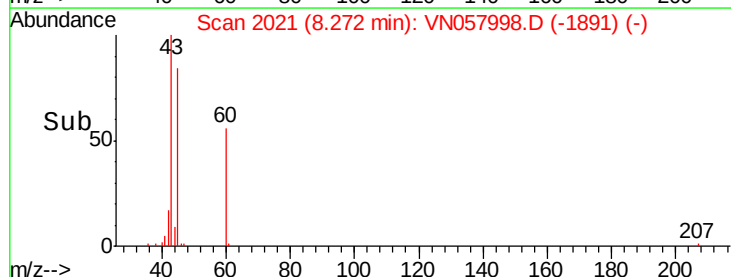
87 0.0 9.5 14.3#

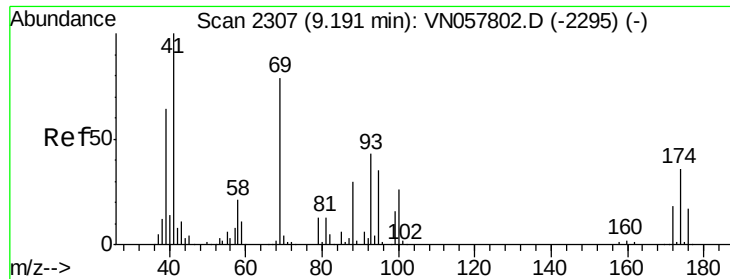


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

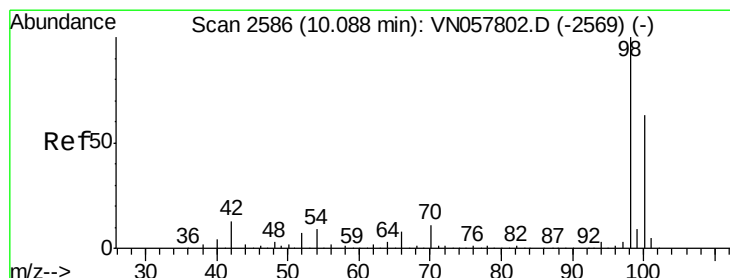
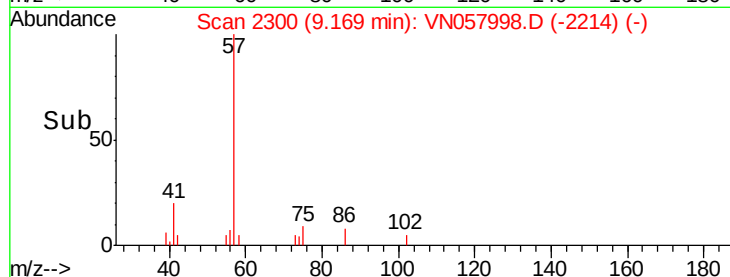
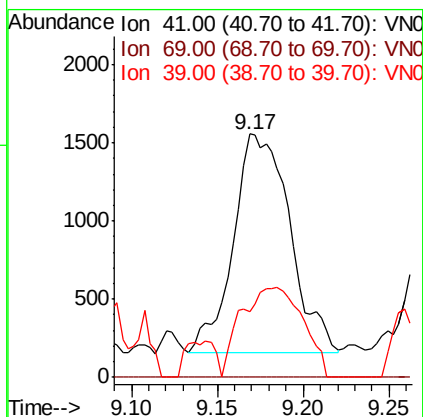
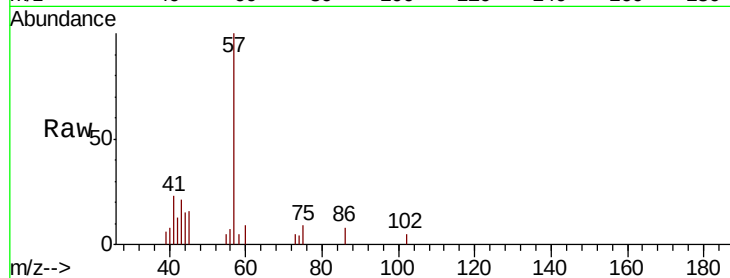




#48
Methyl methacrylate
Concen: 0.723 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.02 min
Lab File: VN057998.D
Acq: 13 Sep 2019 2:21

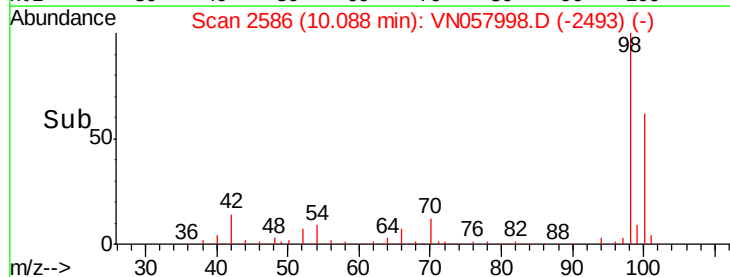
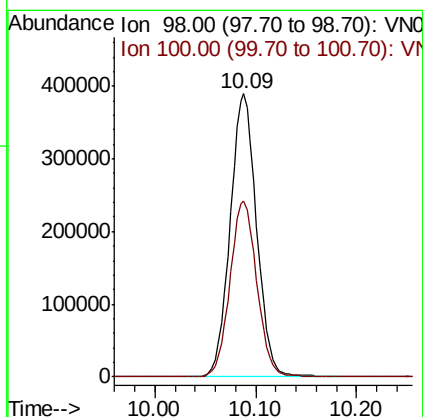
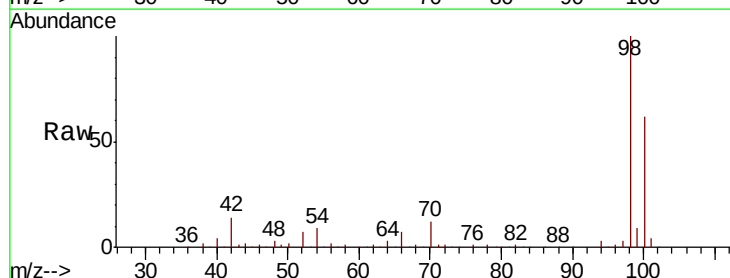
Instrument :
MSVOA_N
ClientSampleId :
T11-E4-(0)

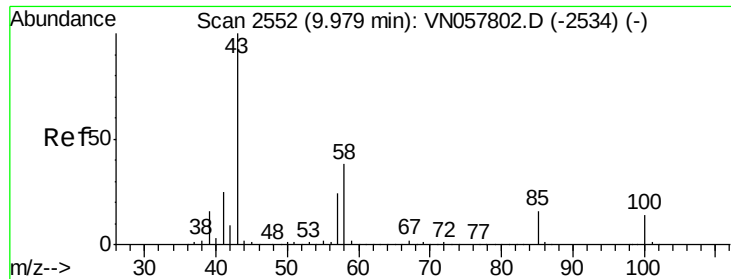
Tgt Ion: 41 Resp: 3203
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 44.7 52.7 79.1#



#50
Toluene-d8
Concen: 45.740 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057998.D
Acq: 13 Sep 2019 2:21

Tgt Ion: 98 Resp: 710850
Ion Ratio Lower Upper
98 100
100 63.3 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.090 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057998.D

Acq: 13 Sep 2019 2:21

Instrument :

MSVOA_N

ClientSampleId :

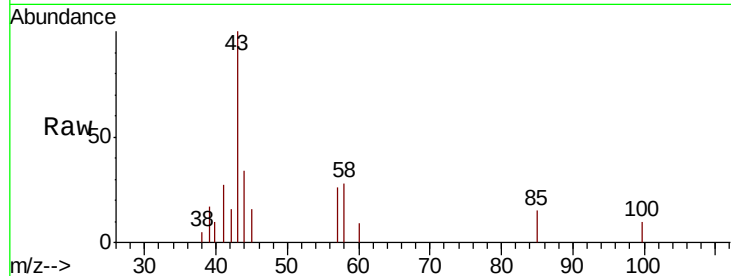
T11-E4-(0)

Tgt Ion: 43 Resp: 5635

Ion Ratio Lower Upper

43 100

58 32.1 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

20000

15000

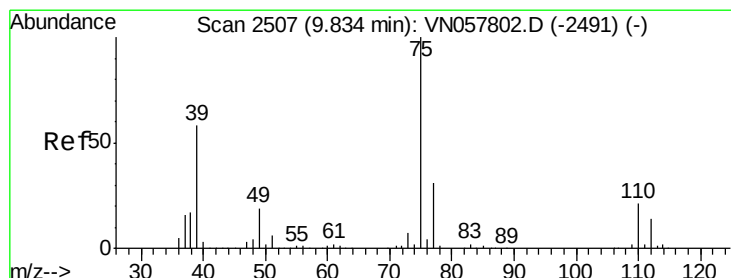
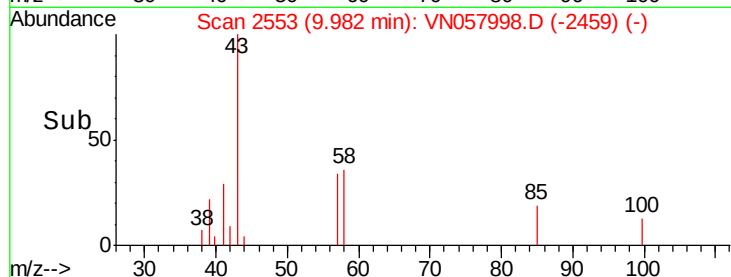
10000

5000

0

9.95 10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 2.102 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN057998.D

Acq: 13 Sep 2019 2:21

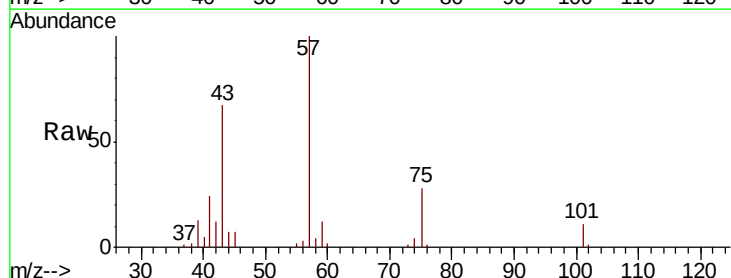
Tgt Ion: 75 Resp: 12995

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 45.2 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

10000

8000

6000

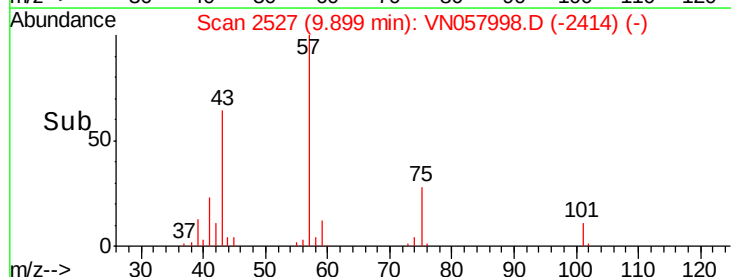
4000

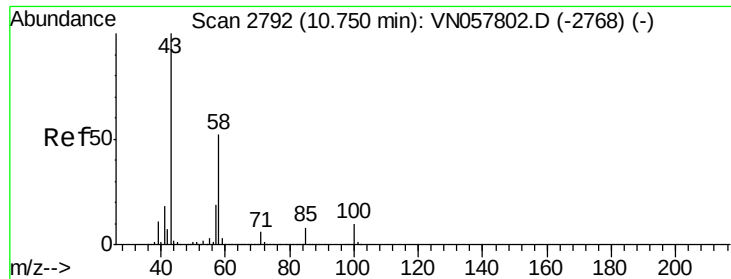
2000

0

9.85 9.90 9.95

Time-->

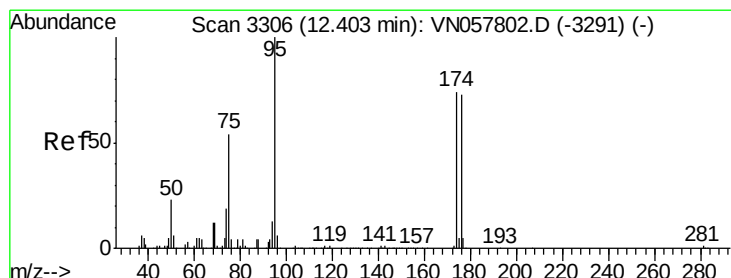
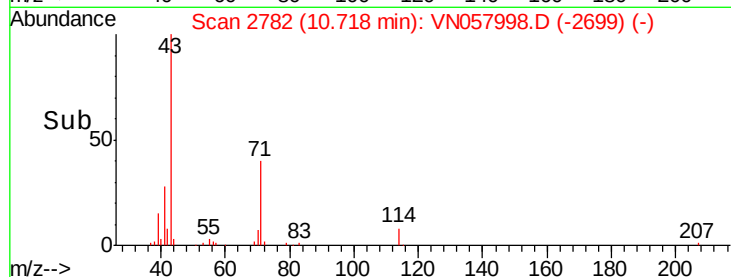
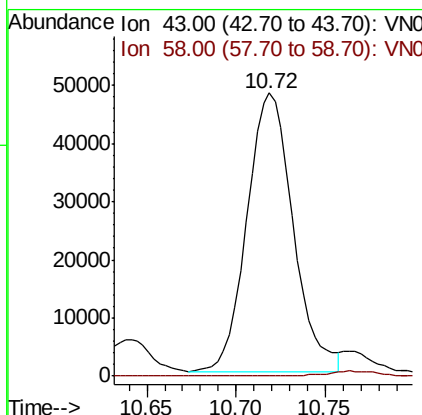
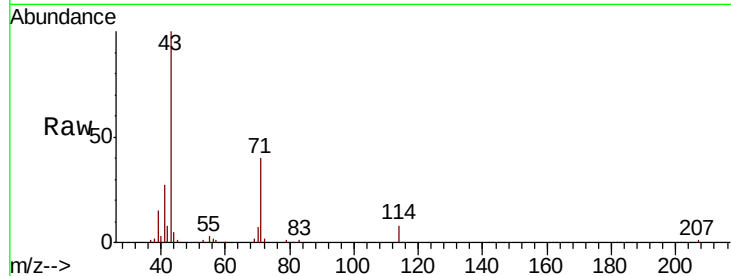




#59
2-Hexanone
Concen: 22.280 ug/l
RT: 10.72 min Scan# 2782
Delta R.T. -0.03 min
Lab File: VN057998.D
Acq: 13 Sep 2019 2:21

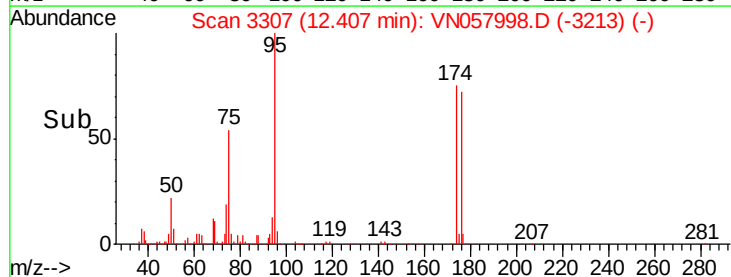
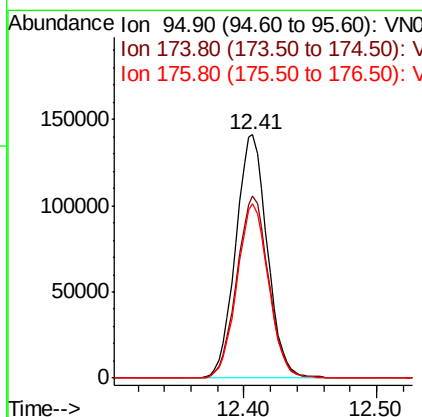
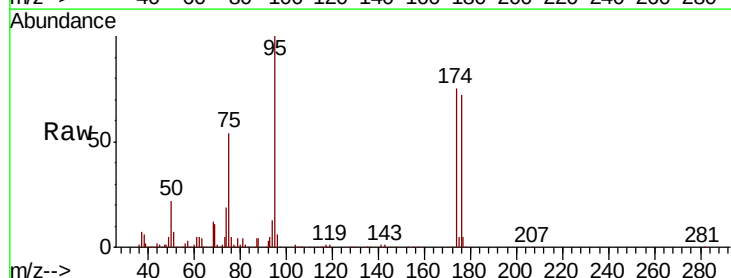
Instrument :
MSVOA_N
ClientSampled :
T11-E4-(0)

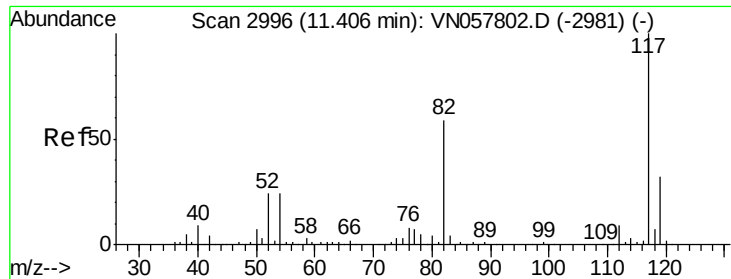
Tgt Ion: 43 Resp: 86361
Ion Ratio Lower Upper
43 100
58 0.0 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 39.425 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN057998.D
Acq: 13 Sep 2019 2:21

Tgt Ion: 95 Resp: 233496
Ion Ratio Lower Upper
95 100
174 75.6 0.0 150.2
176 71.8 0.0 146.0

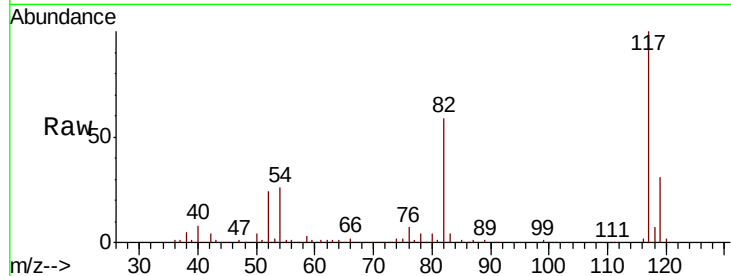




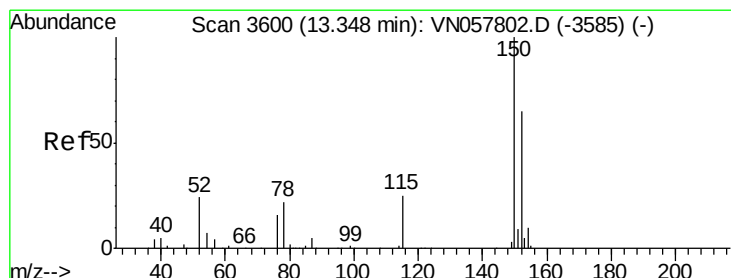
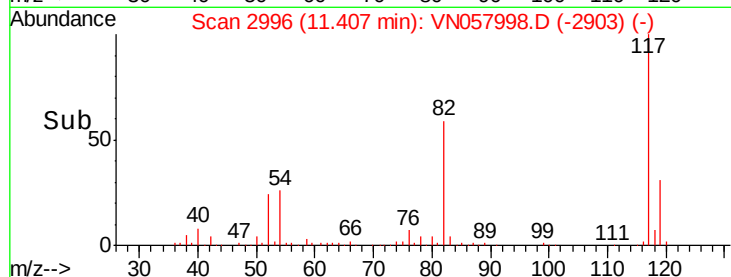
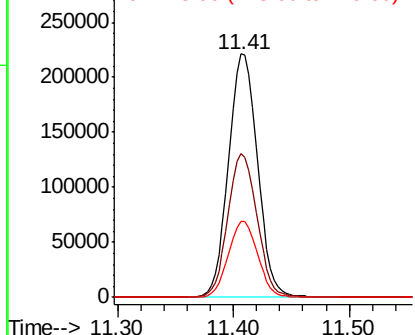
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057998.D
Acq: 13 Sep 2019 2:21

Instrument :
MSVOA_N
ClientSampleId :
T11-E4-(0)

Tgt Ion:117 Resp: 383048
Ion Ratio Lower Upper
117 100
82 59.1 47.2 70.8
119 31.2 25.3 37.9

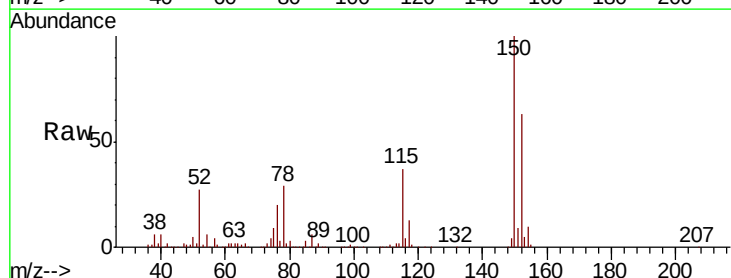


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

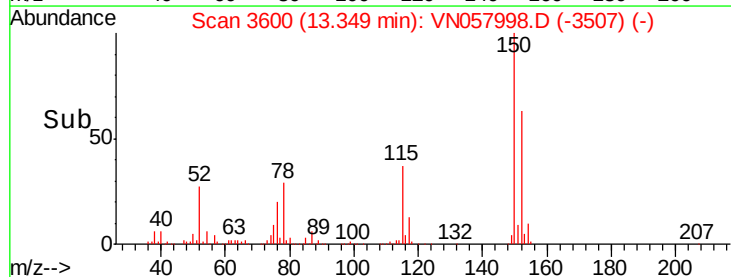
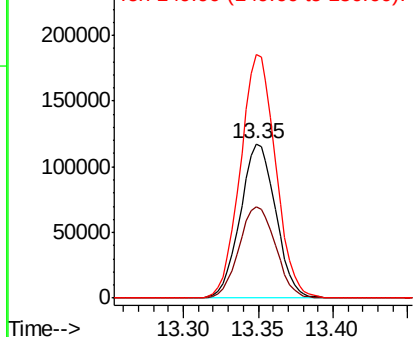


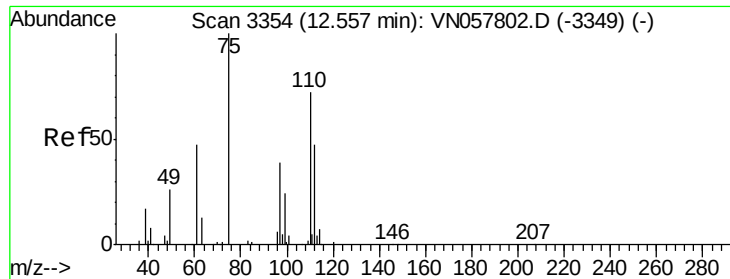
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057998.D
Acq: 13 Sep 2019 2:21

Tgt Ion:152 Resp: 194449
Ion Ratio Lower Upper
152 100
115 61.2 30.3 91.0
150 157.0 0.0 352.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 29.124 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057998.D

Acq: 13 Sep 2019 2:21

Instrument :

MSVOA_N

ClientSampleId :

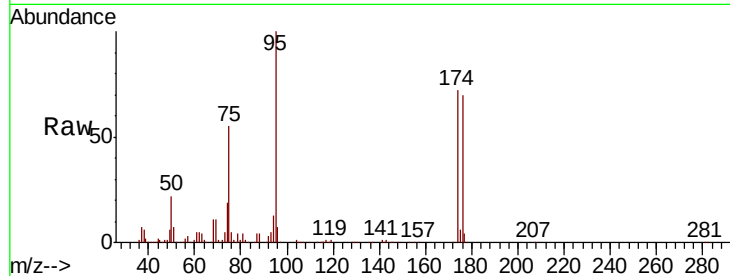
T11-E4-(0)

Tgt Ion: 75 Resp: 128110

Ion Ratio Lower Upper

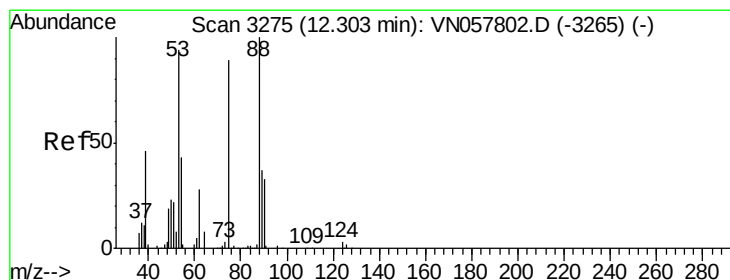
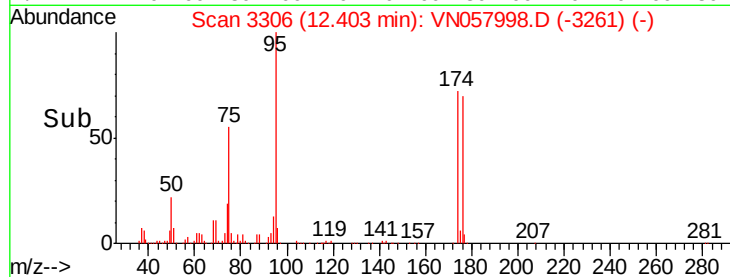
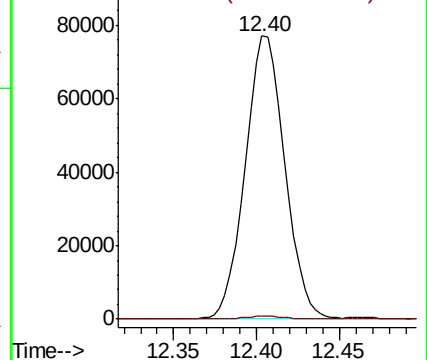
75 100

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: 102.488 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057998.D

Acq: 13 Sep 2019 2:21

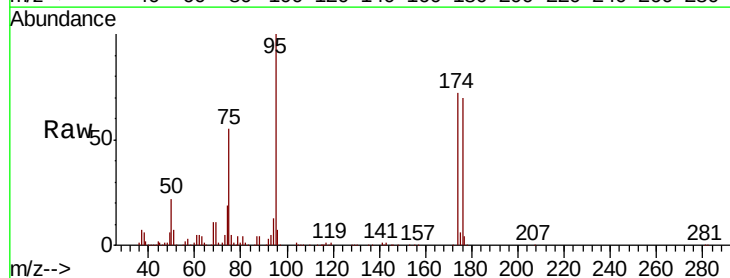
Tgt Ion: 75 Resp: 128110

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

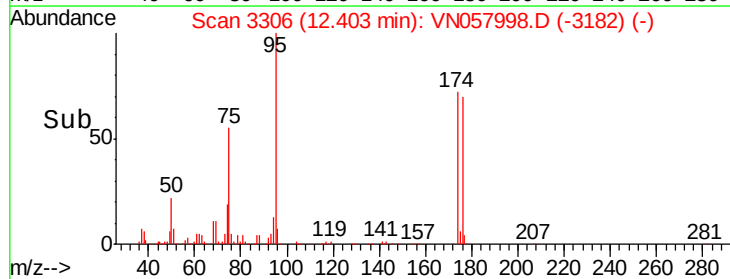
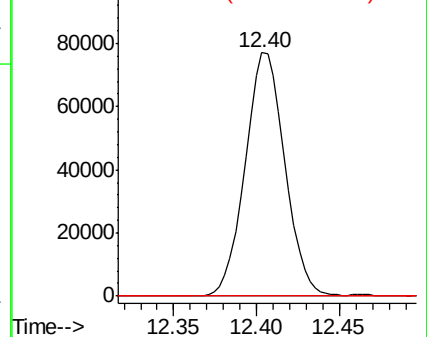
89 0.0 35.3 52.9#

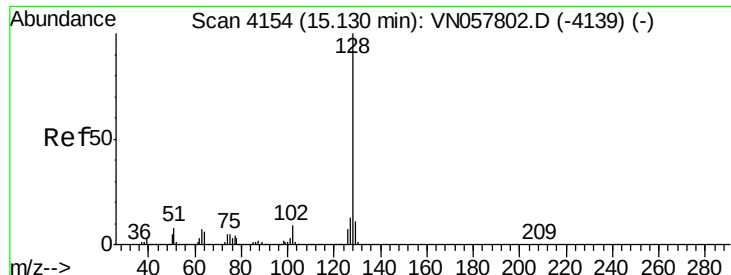


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

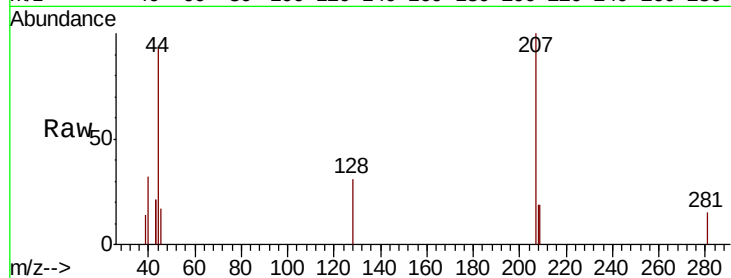




#95
Naphthalene
Concen: Below Cal
RT: 15.14 min Scan# 4157
Delta R.T. 0.01 min
Lab File: VN057998.D
Acq: 13 Sep 2019 2:21

Instrument :
MSVOA_N
ClientSampleId :
T11-E4-(0)

Tgt Ion:128 Resp: 462
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

