

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102519\
 Data File : VN058967.D
 Acq On : 24 Oct 2019 17:24
 Operator : JC/SP
 Sample : K5145-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 25 01:26:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	329434	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	525143	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	493109	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	178486	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	244520	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
35) Dibromofluoromethane	7.57	113	173963	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
50) Toluene-d8	10.08	98	681200	50.83	ug/l	0.00
Spiked Amount			Recovery	=	101.66%	
62) 4-Bromofluorobenzene	12.40	95	216866	44.06	ug/l	0.00
Spiked Amount			Recovery	=	88.12%	

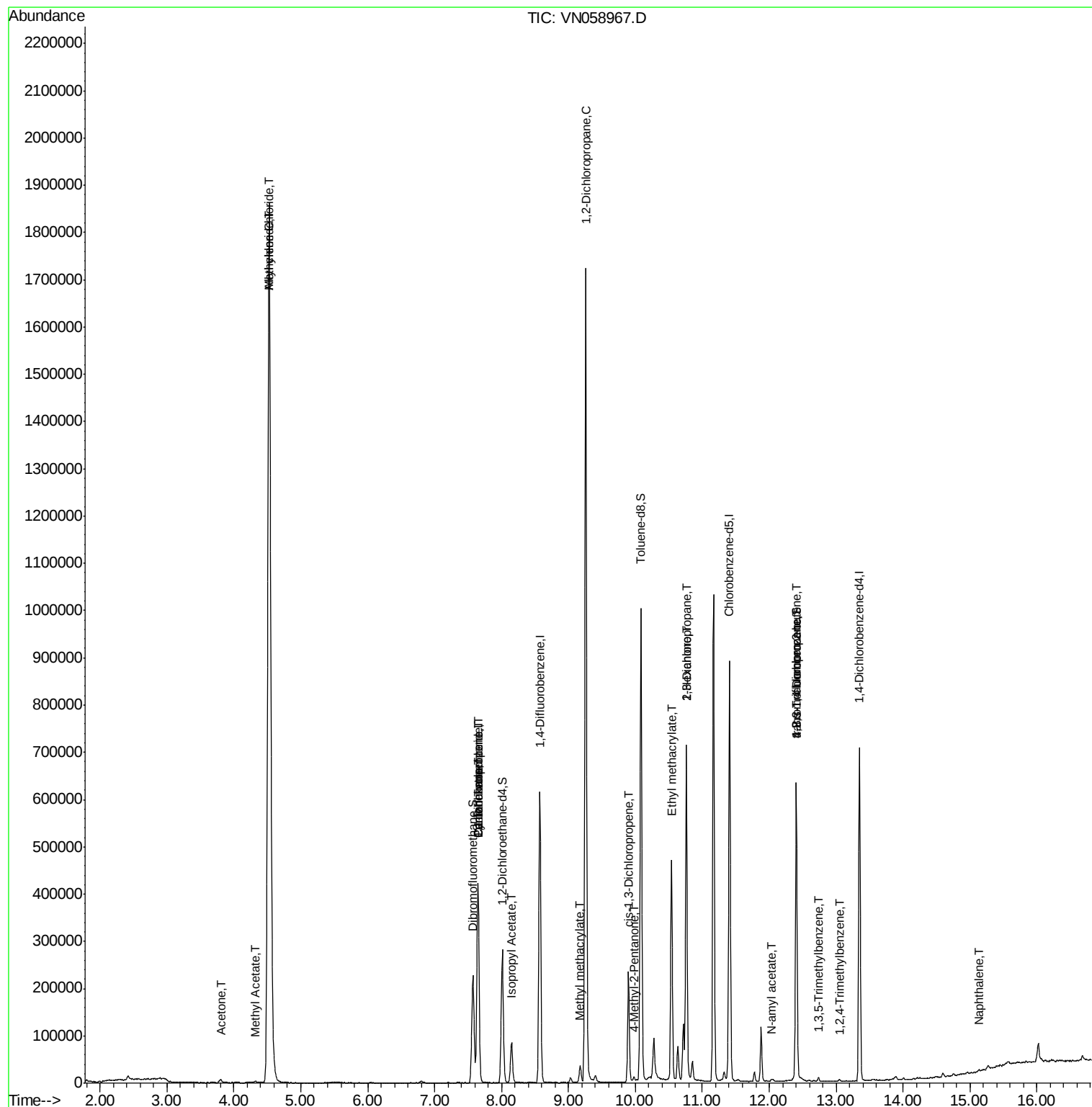
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.52	41	52536	7.994	ug/l #	24
16) Acetone	3.80	43	12962	5.429	ug/l	95
18) Methyl Acetate	4.31	43	4279	0.788	ug/l #	68
20) Methylene Chloride	4.53	84	1390616	341.109	ug/l	100
31) Cyclohexane	7.65	56	8060	1.161	ug/l #	15
36) 1,1-Dichloropropene	7.64	75	28309	5.265	ug/l #	50
38) Carbon Tetrachloride	7.65	117	33351	6.021	ug/l #	17
43) Isopropyl Acetate	8.15	43	98994	10.537	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1966	0.454	ug/l #	44
48) Methyl methacrylate	9.17	41	5814	1.364	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	7120	1.297	ug/l	88
54) cis-1,3-Dichloropropene	9.90	75	38929	5.835	ug/l #	68
56) Ethyl methacrylate	10.54	69	2164	2.418	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6783	1.002	ug/l #	43
59) 2-Hexanone	10.76	43	108355	25.552	ug/l #	53
74) N-amyl acetate	12.03	43	4751	0.803	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	115573	27.939	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	4275	0.390	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	115573	72.783	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.05	105	3233	0.299	ug/l	86
95) Naphthalene	15.13	128	2119	2.423	ug/l #	92

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

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QLast Update : Sat Oct 19 00:16:20 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

Instrument :

MSVOA_N

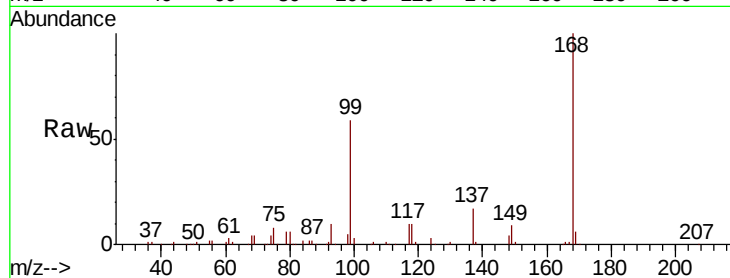
ClientSampled :

Tot Ion:168 Resp: 329434

Ion Ratio Lower Upper

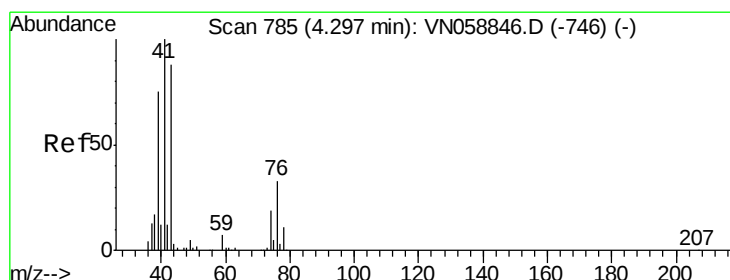
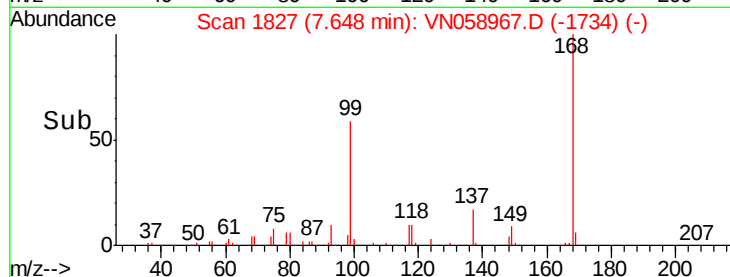
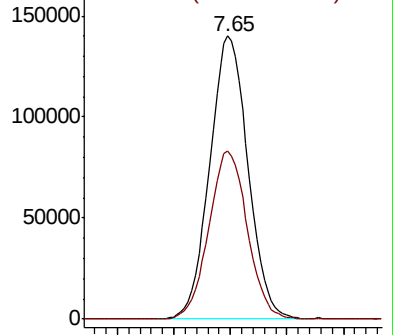
168 100

99 59.3 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#14

Allyl chloride

Concen: 7.994 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.23 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

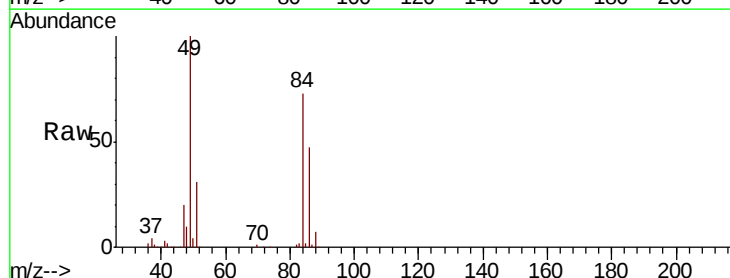
Tgt Ion: 41 Resp: 52536

Ion Ratio Lower Upper

41 100

39 0.7 55.9 83.9#

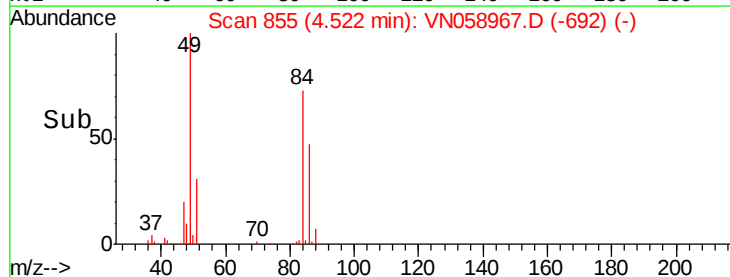
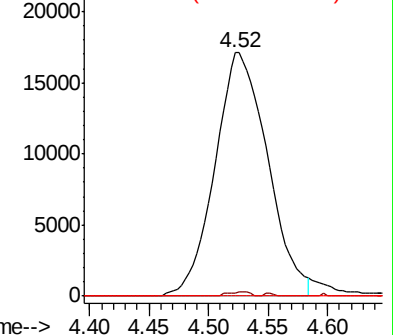
76 0.0 24.1 36.1#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

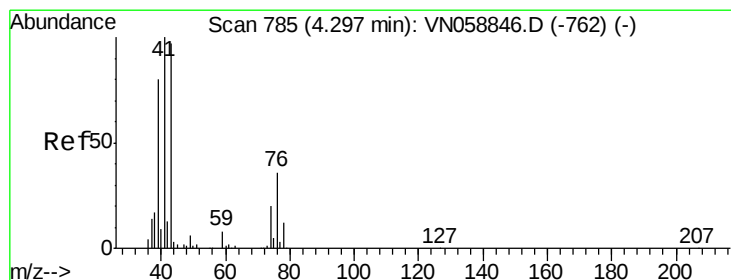
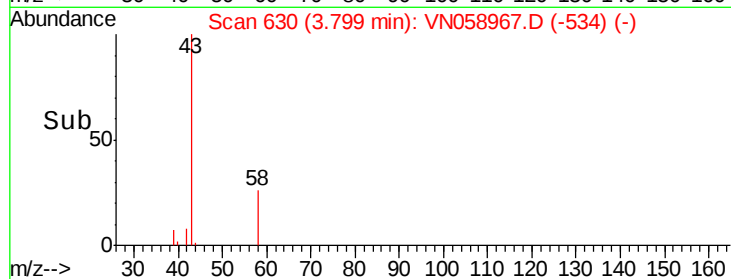
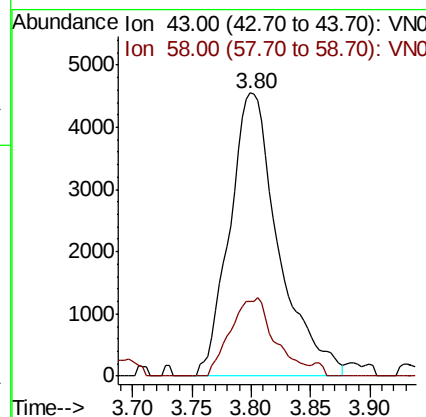
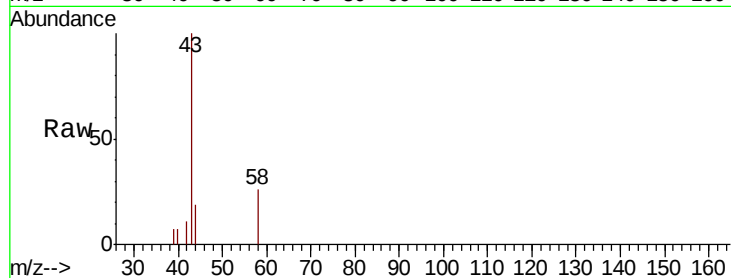




#16
Acetone
Concen: 5.429 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.01 min
Lab File: VN058967.D
Acq: 24 Oct 2019 17:24

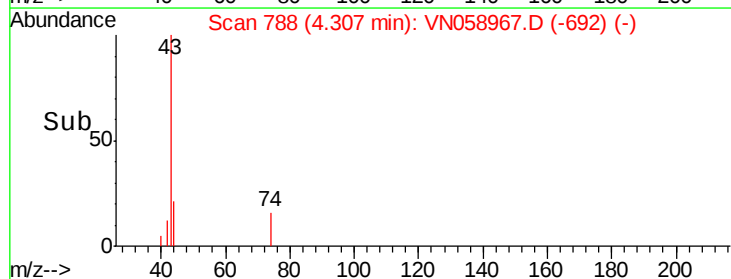
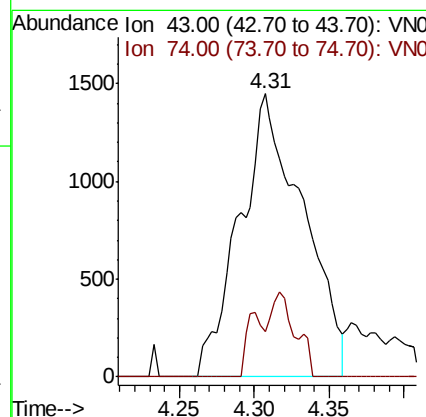
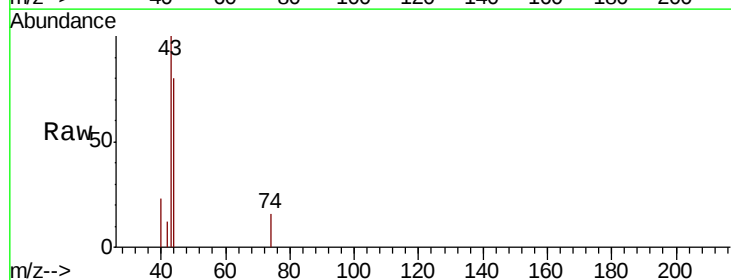
Instrument :
MSVOA_N
ClientSampled :

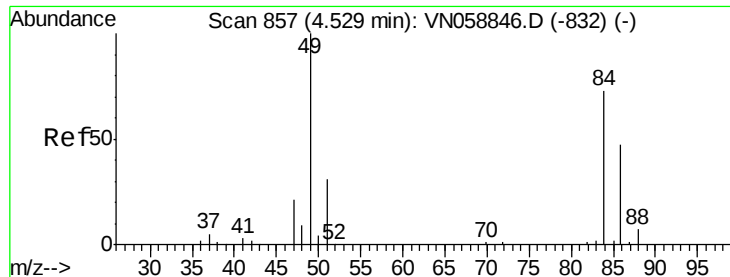
Tot Ion: 43 Resp: 12962
Ion Ratio Lower Upper
43 100
58 26.3 23.1 34.7



#18
Methyl Acetate
Concen: 0.788 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058967.D
Acq: 24 Oct 2019 17:24

Tgt Ion: 43 Resp: 4279
Ion Ratio Lower Upper
43 100
74 6.2 17.1 25.7#



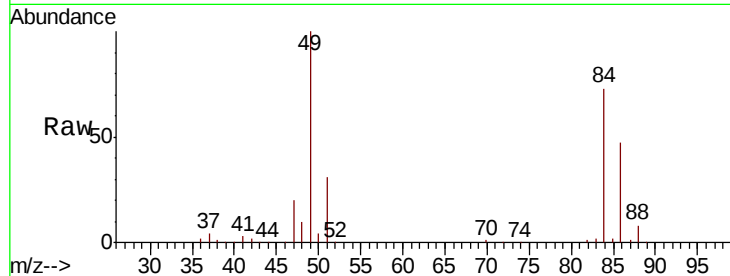


#20
Methvlene Chloride
Concen: 341.109 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058967.D
Acq: 24 Oct 2019 17:24

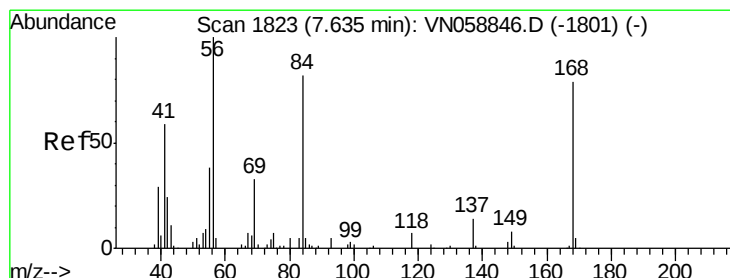
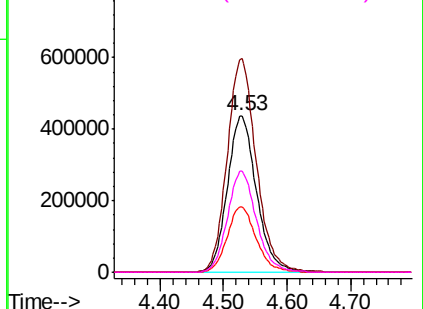
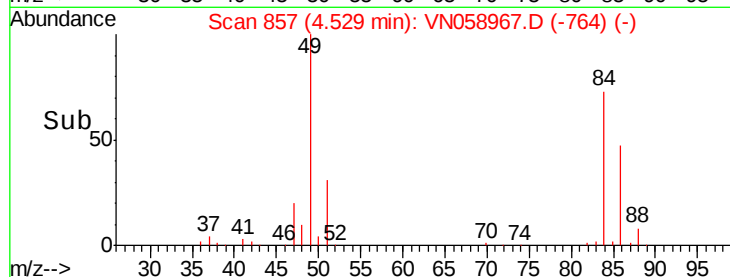
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 1390616

Ion	Ratio	Lower	Upper
84	100		
49	136.8	109.6	164.4
51	41.8	33.8	50.6
86	64.4	51.5	77.3



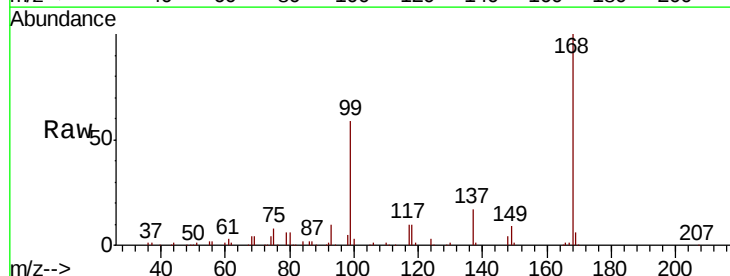
Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO



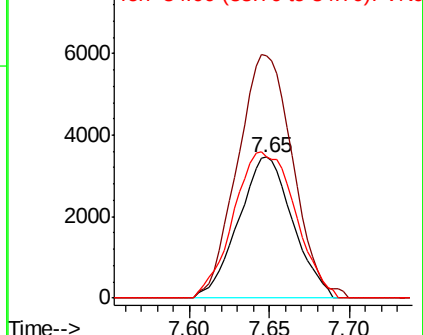
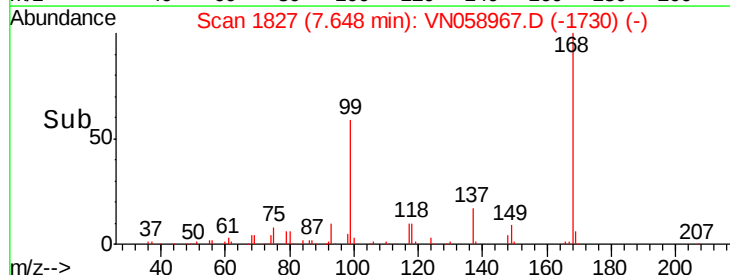
#31
Cyclohexane
Concen: 1.161 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058967.D
Acq: 24 Oct 2019 17:24

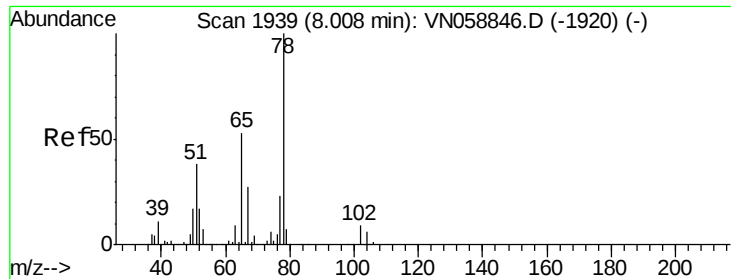
Tgt Ion: 56 Resp: 8060

Ion	Ratio	Lower	Upper
56	100		
69	171.6	26.2	39.4#
84	99.8	65.6	98.4#



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

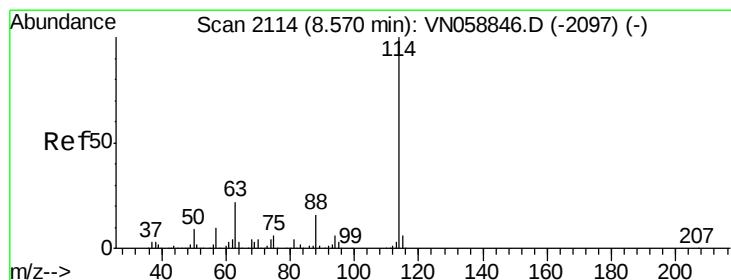
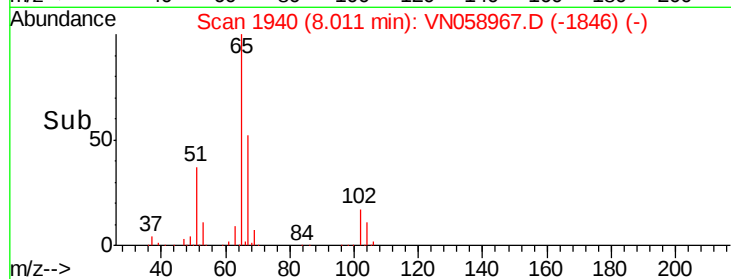
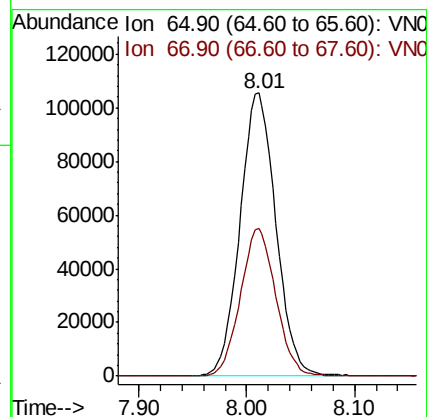
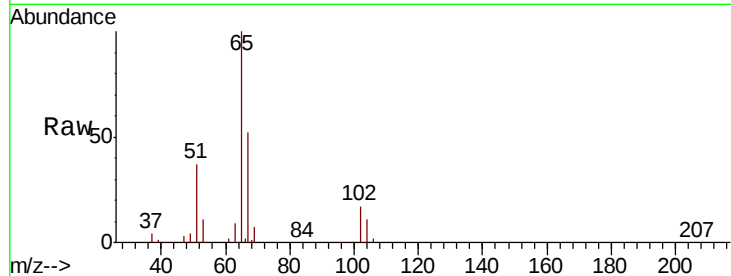




#33
 1,2-Dichloroethane-d4
 Concen: 50.608 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058967.D
 Acq: 24 Oct 2019 17:24

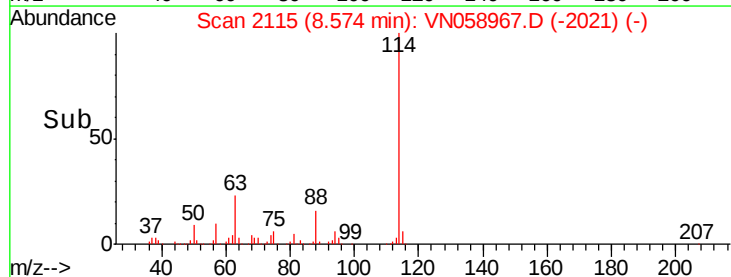
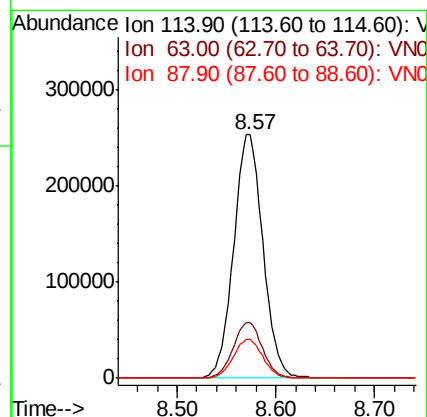
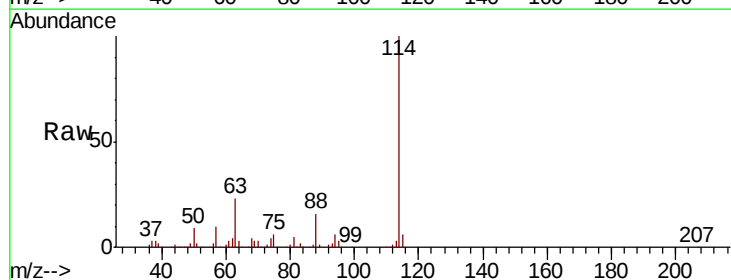
Instrument :
 MSVOA_N
 ClientSampleId :

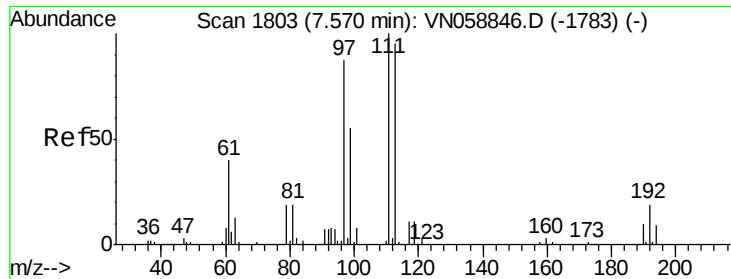
Tot Ion: 65 Resp: 244520
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058967.D
 Acq: 24 Oct 2019 17:24

Tgt Ion: 114 Resp: 525143
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 44.4
 88 15.8 0.0 31.4

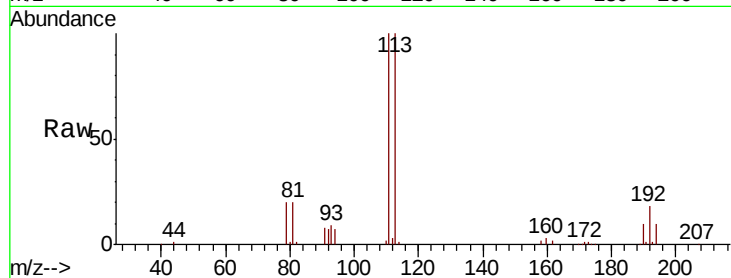




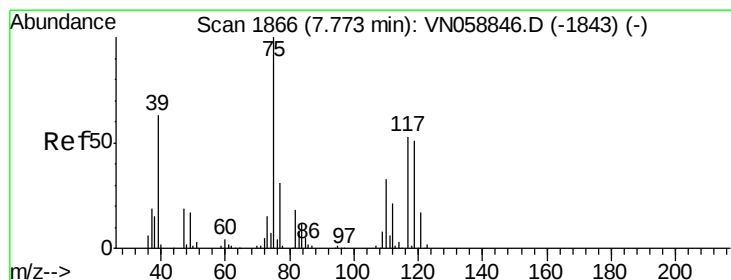
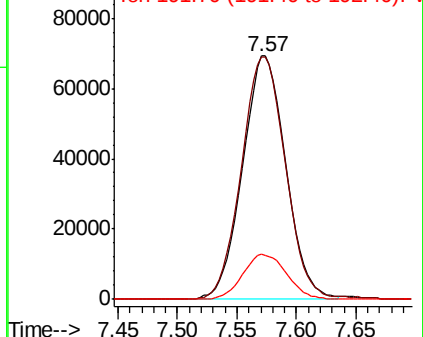
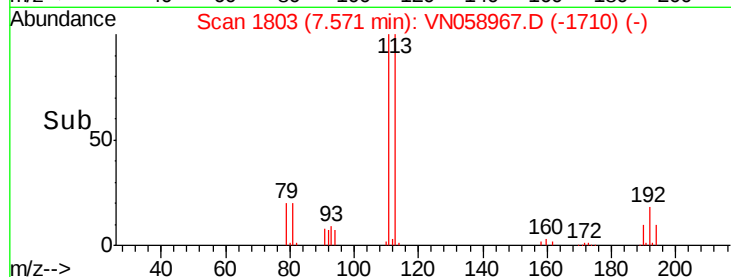
#35
 Dibromofluoromethane
 Concen: 50.385 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN058967.D
 Acq: 24 Oct 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.0	123.0
192	18.8	15.0	22.6

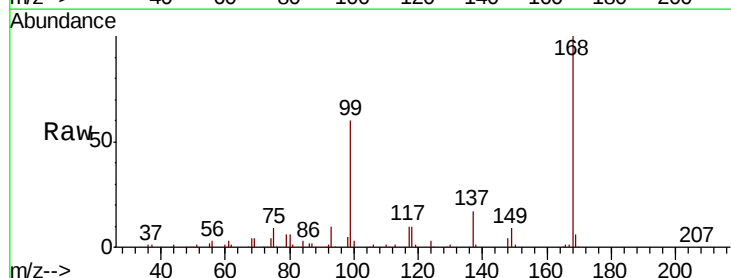


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

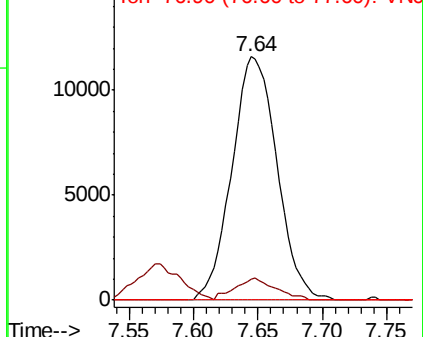
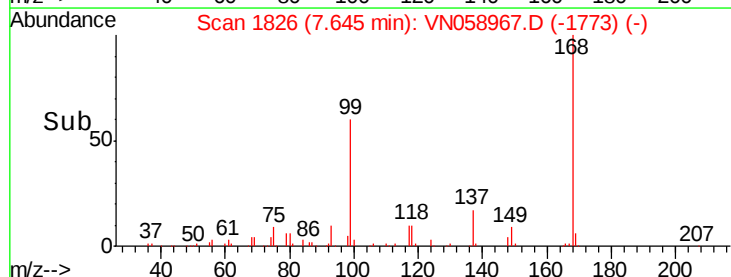


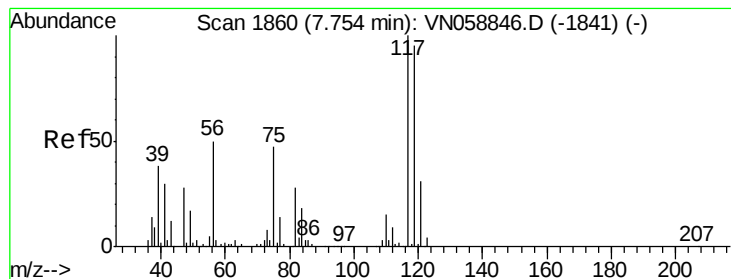
#36
 1,1-Dichloropropene
 Concen: 5.265 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN058967.D
 Acq: 24 Oct 2019 17:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.3	48.9#
77	0.0	24.6	36.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.021 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

Instrument :

MSVOA_N

ClientSampled :

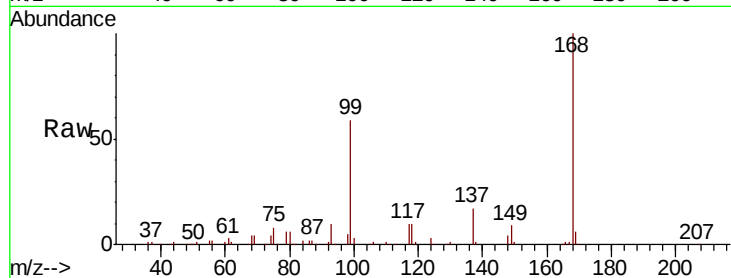
Tot Ion:117 Resp: 33351

Ion Ratio Lower Upper

117 100

119 5.2 75.7 113.5#

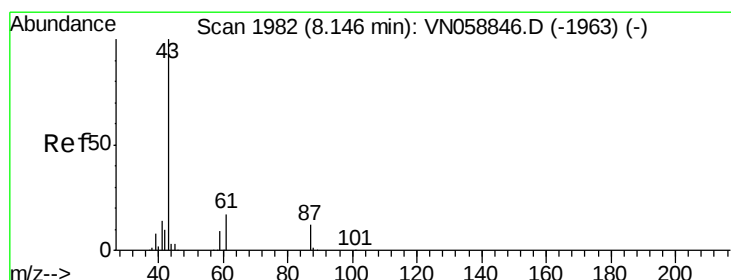
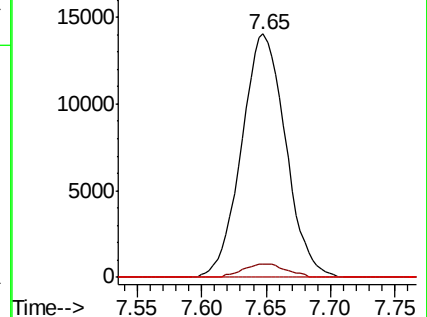
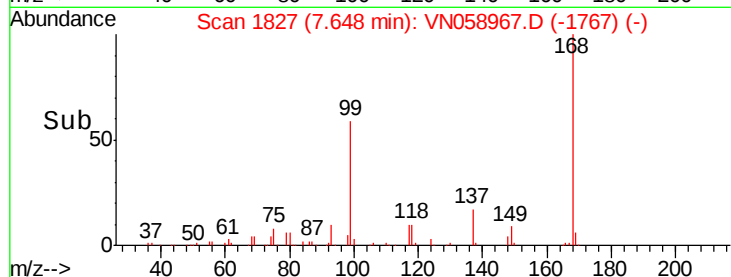
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.537 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

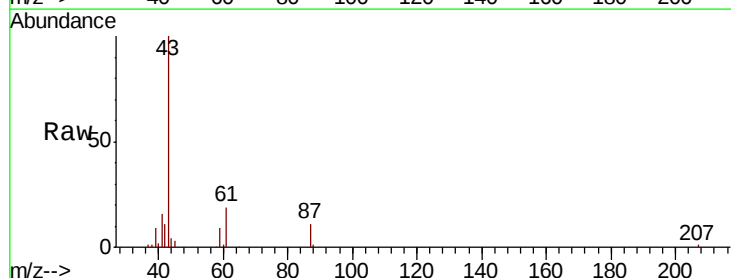
Tgt Ion: 43 Resp: 98994

Ion Ratio Lower Upper

43 100

61 18.9 20.2 30.2#

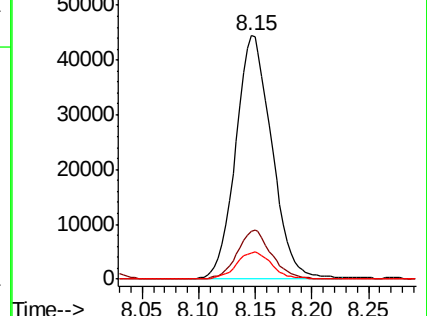
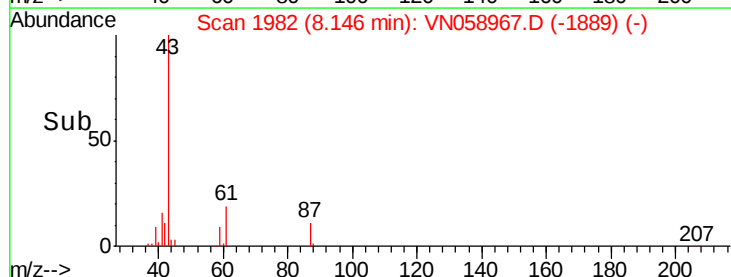
87 10.9 9.5 14.3

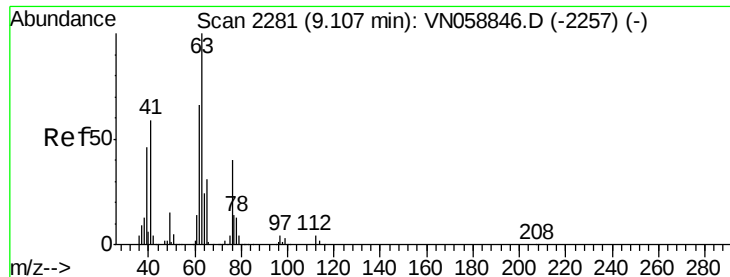


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.454 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.14 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

Instrument :

MSVOA_N

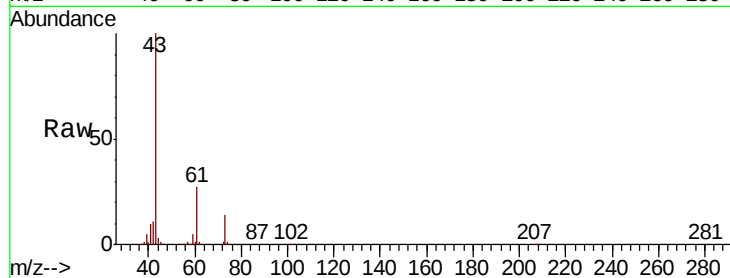
ClientSampleId :

Tot Ion: 63 Resp: 1966

Ion Ratio Lower Upper

63 100

65 0.0 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

1200

1000

800

600

400

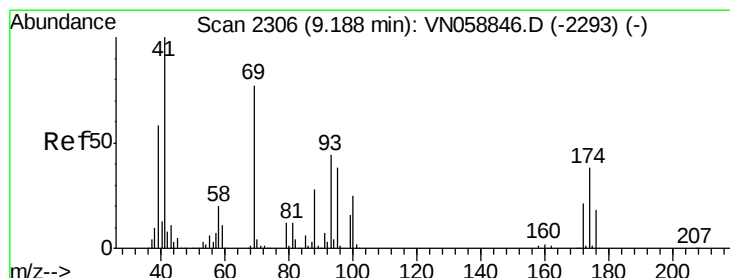
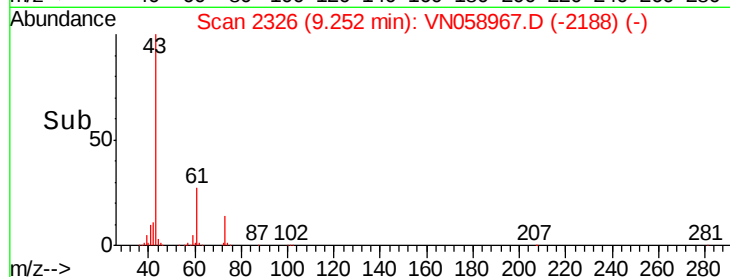
200

0

9.20

9.25

9.30



#48

Methyl methacrylate

Concen: 1.364 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.02 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

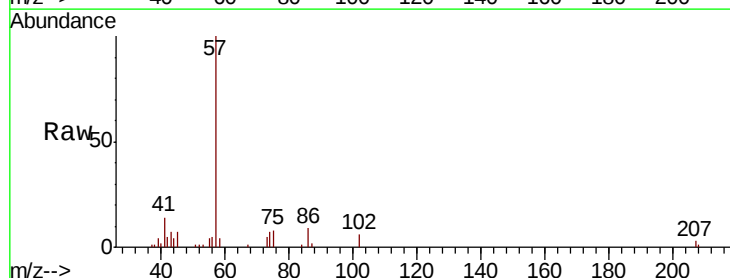
Tgt Ion: 41 Resp: 5814

Ion Ratio Lower Upper

41 100

69 0.0 63.8 95.6#

39 0.0 47.8 71.8#



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

80000

60000

40000

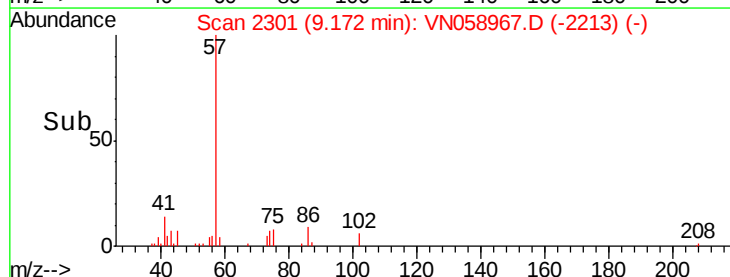
20000

0

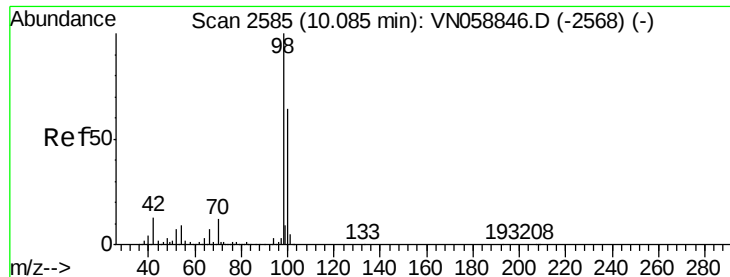
9.10

9.15

9.20



Time-->



#50

Toluene-d8

Concen: 50.825 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

Instrument :

MSVOA_N

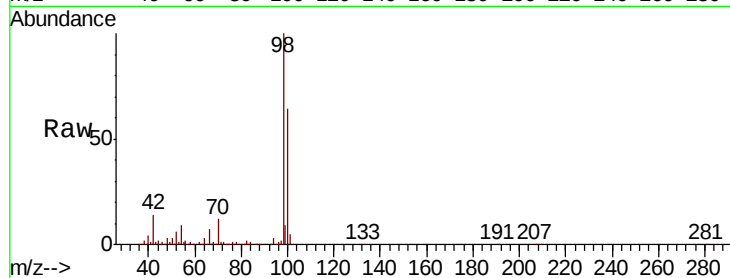
ClientSampleId :

Tot Ion: 98 Resp: 681200

Ion Ratio Lower Upper

98 100

100 63.5 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

400000

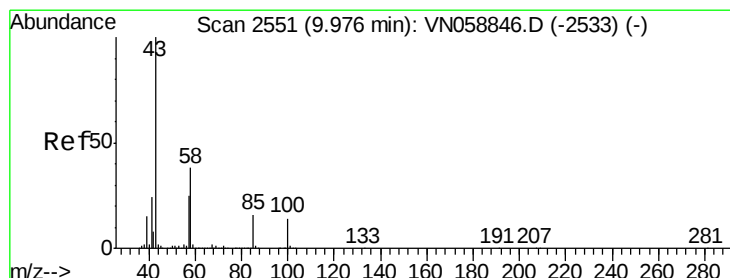
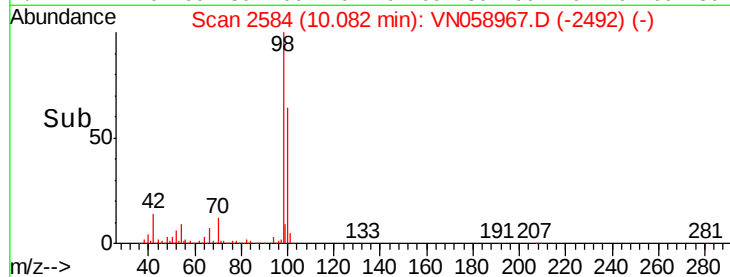
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.297 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN058967.D

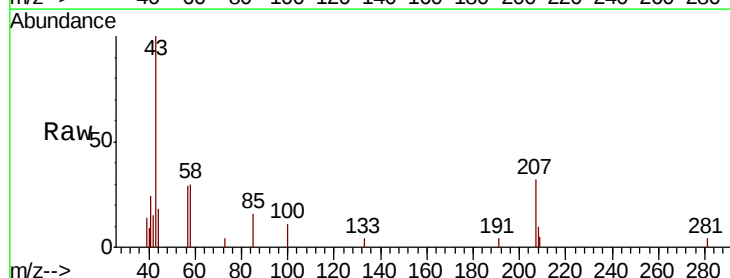
Acq: 24 Oct 2019 17:24

Tgt Ion: 43 Resp: 7120

Ion Ratio Lower Upper

43 100

58 30.1 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

4000

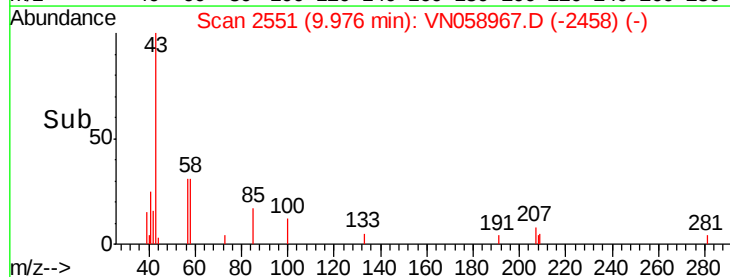
3000

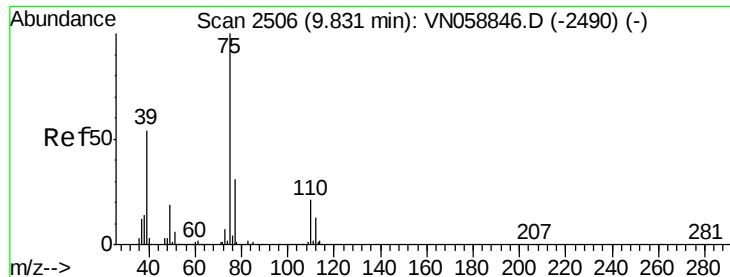
2000

1000

0

Time-->



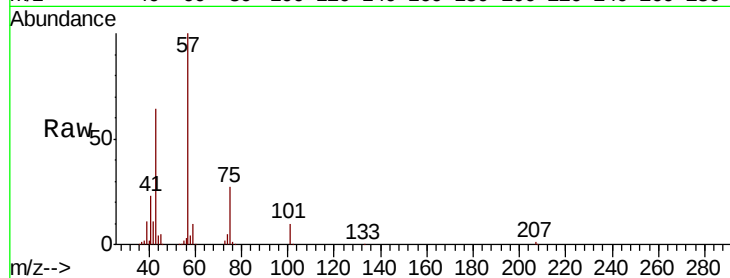


#54

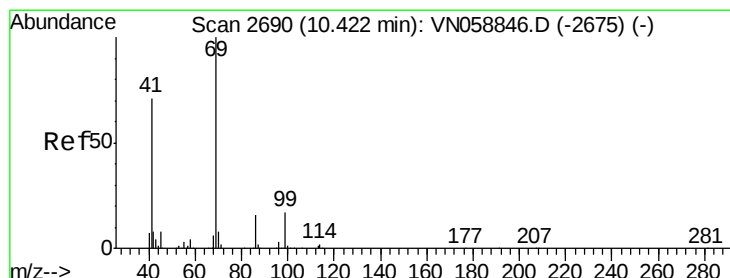
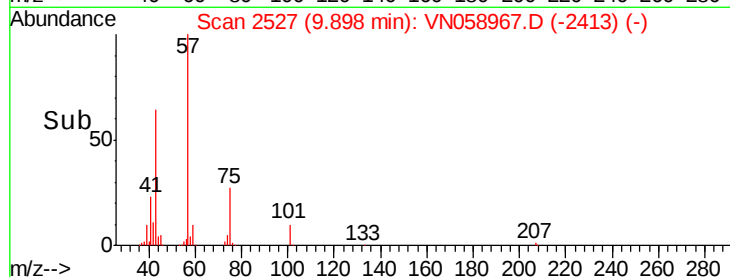
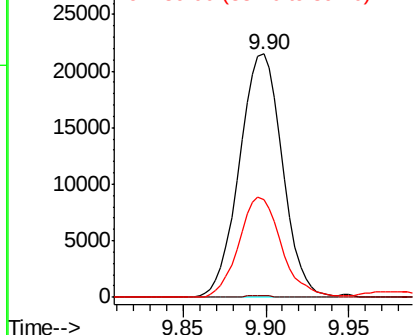
cis-1,3-Dichloropropene
 Concen: 5.835 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.07 min
 Lab File: VN058967.D
 Acq: 24 Oct 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	38929
Ion Ratio	Lower	Upper	
75	100		
77	0.9	24.7	37.1#
39	40.2	43.5	65.3#



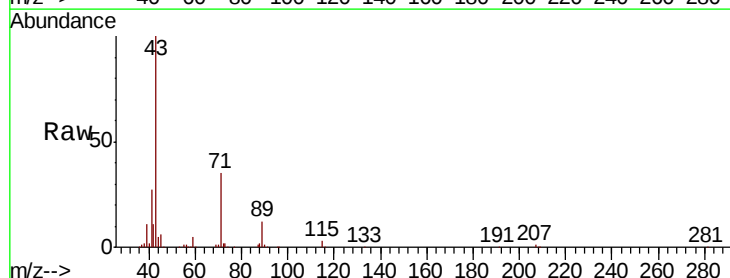
Abundance Ion 74.90 (74.60 to 75.60): VNC
 Ion 76.90 (76.60 to 77.60): VNC
 Ion 39.00 (38.70 to 39.70): VNC



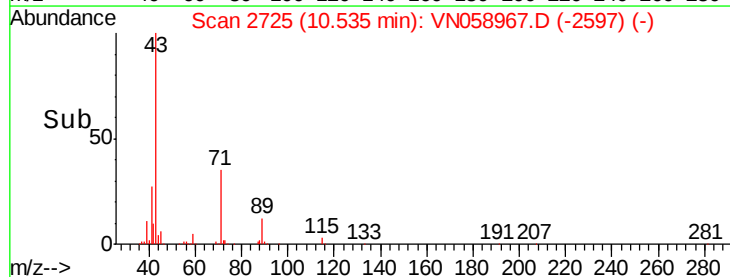
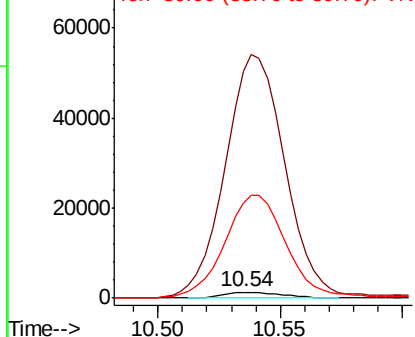
#56

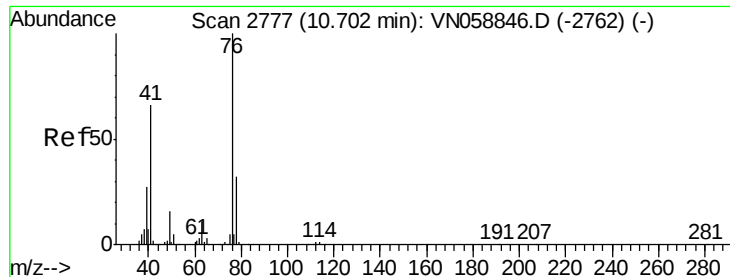
Ethyl methacrylate
 Concen: 2.418 ug/l
 RT: 10.54 min Scan# 2725
 Delta R.T. 0.11 min
 Lab File: VN058967.D
 Acq: 24 Oct 2019 17:24

Tgt Ion	69	Resp	2164
Ion Ratio	Lower	Upper	
69	100		
41	4294.9	57.2	85.8#
39	1860.6	31.0	46.4#



Abundance Ion 69.00 (68.70 to 69.70): VNC
 Ion 41.00 (40.70 to 41.70): VNC
 Ion 39.00 (38.70 to 39.70): VNC





#57

1,3-Dichloropropane

Concen: 1.002 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

Instrument :

MSVOA_N

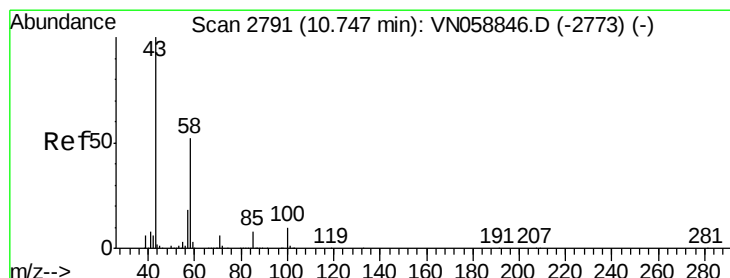
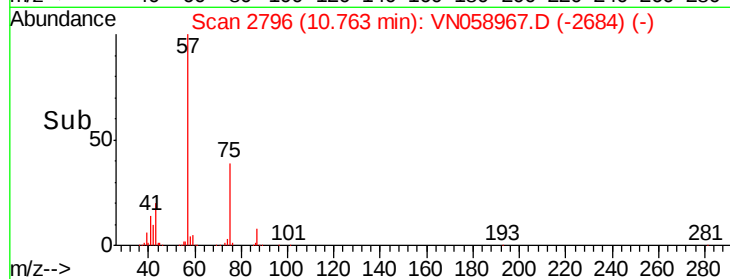
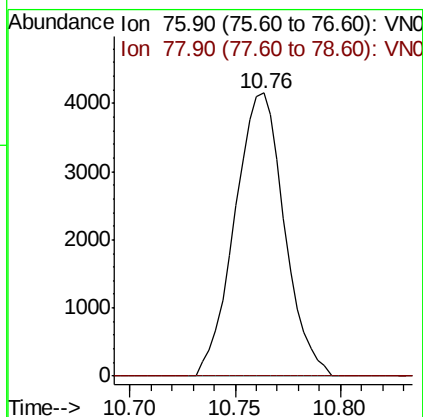
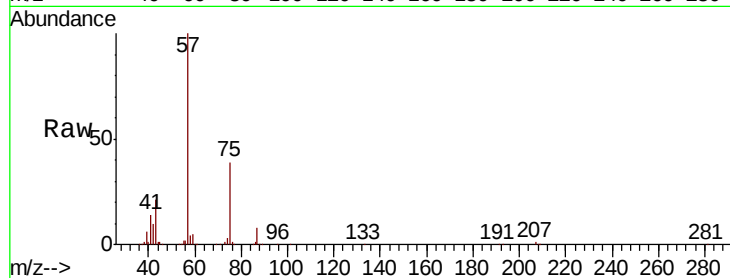
ClientSampled :

Tot Ion: 76 Resp: 6783

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#



#59

2-Hexanone

Concen: 25.552 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN058967.D

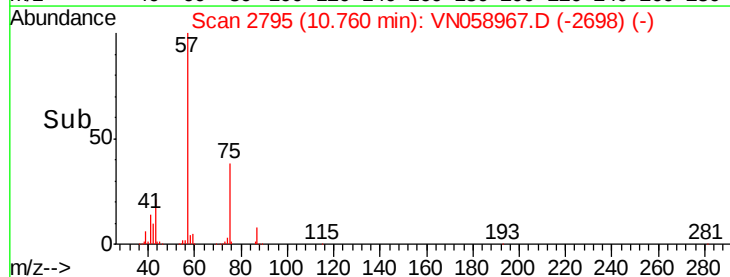
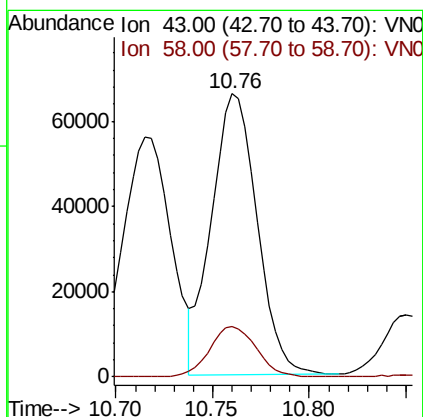
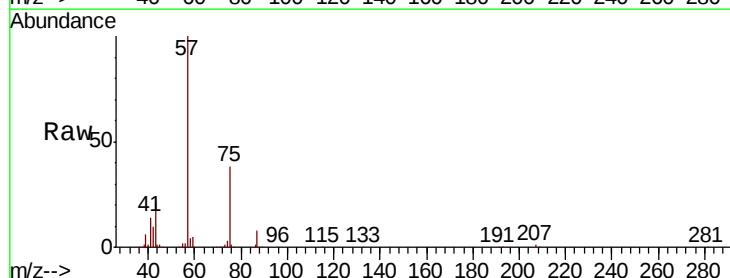
Acq: 24 Oct 2019 17:24

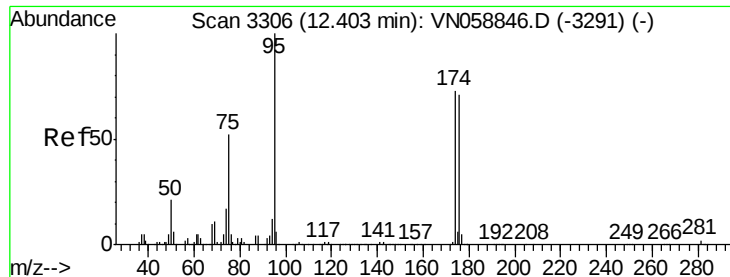
Tgt Ion: 43 Resp: 108355

Ion Ratio Lower Upper

43 100

58 18.6 25.9 77.7#





#62

4-Bromofluorobenzene

Concen: 44.062 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

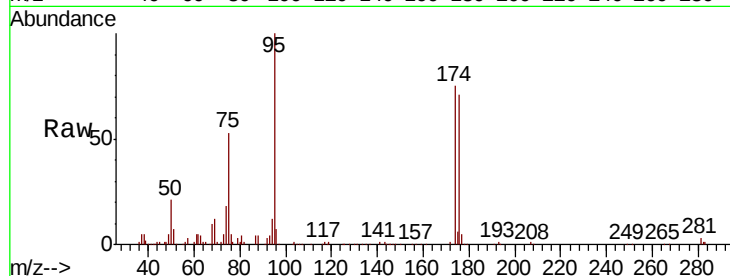
Tot Ion: 95 Resp: 216866

Ion Ratio Lower Upper

95 100

174 76.6 0.0 147.6

176 73.5 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): VN058846.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058846.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058846.D (-3291) (-)

12.40

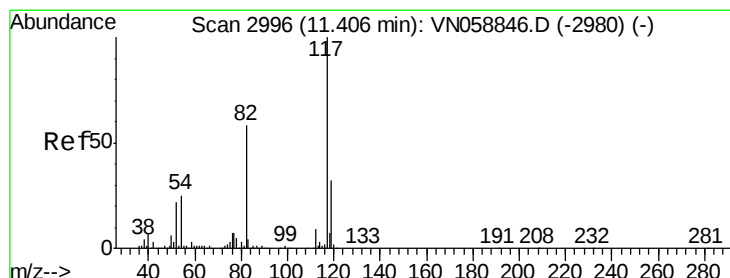
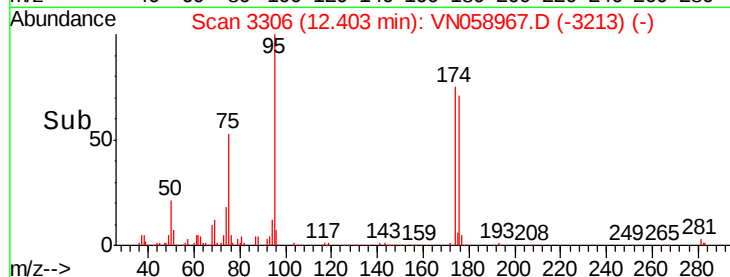
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

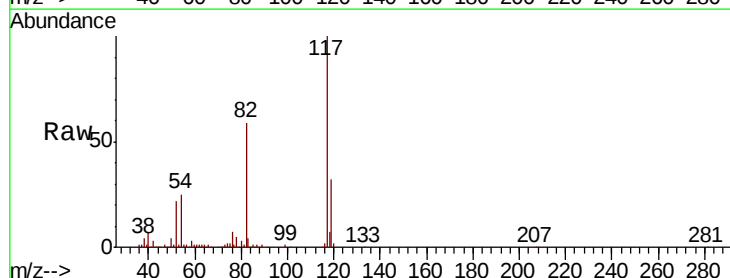
Tgt Ion: 117 Resp: 493109

Ion Ratio Lower Upper

117 100

82 58.6 46.6 69.8

119 31.8 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): VN058846.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058846.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058846.D (-2980) (-)

11.41

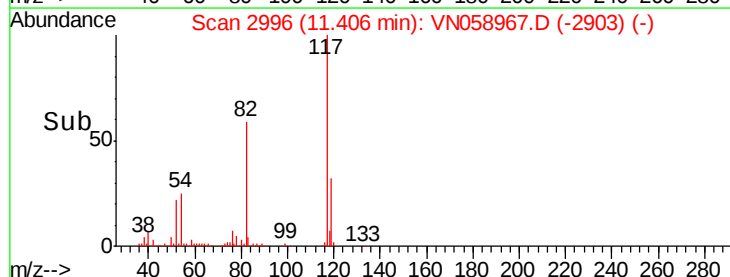
300000

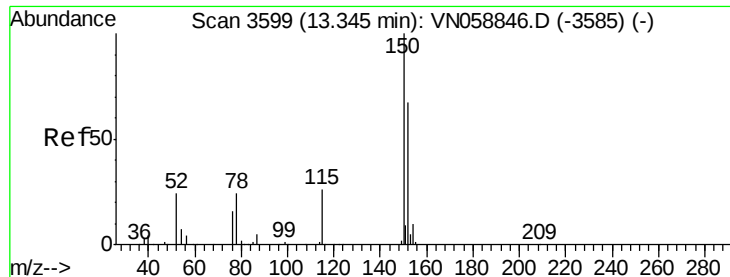
200000

100000

0

Time--> 11.30 11.40 11.50





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

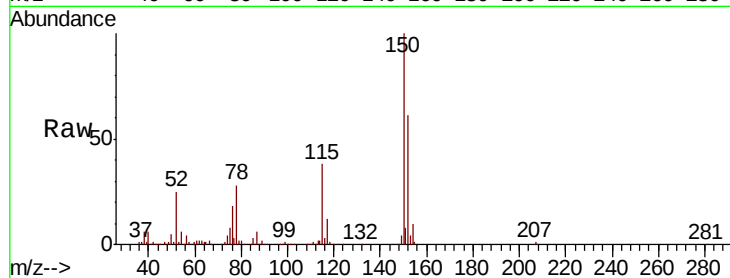
Tot Ion:152 Resp: 178486

Ion Ratio Lower Upper

152 100

115 61.5 30.5 91.5

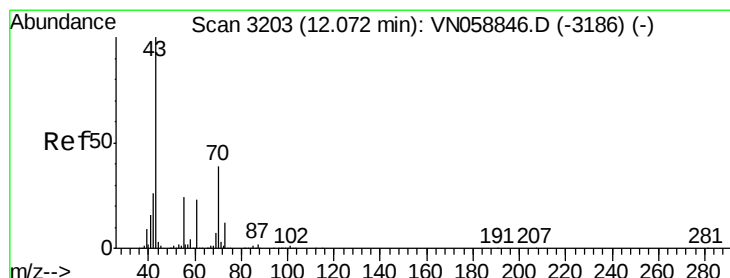
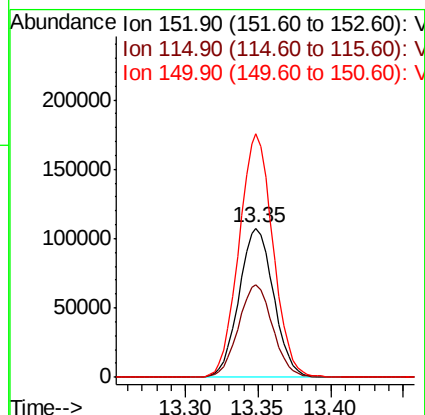
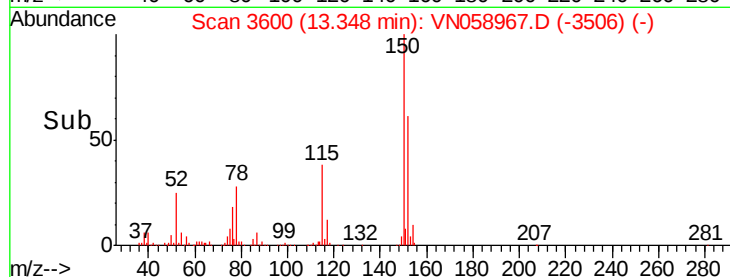
150 160.7 0.0 344.4



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



#74

N-ethyl acetate

Concen: 0.803 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

Tgt Ion: 43 Resp: 4751

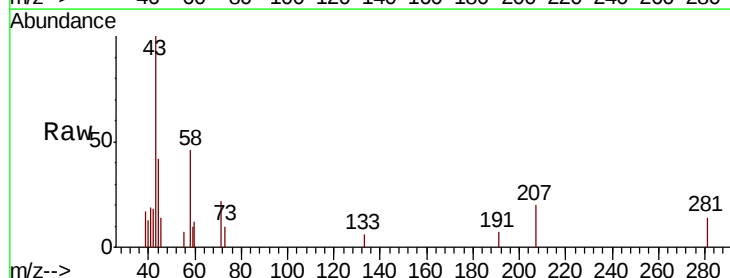
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 5.0 19.7 29.5#

61 0.0 18.2 27.4#

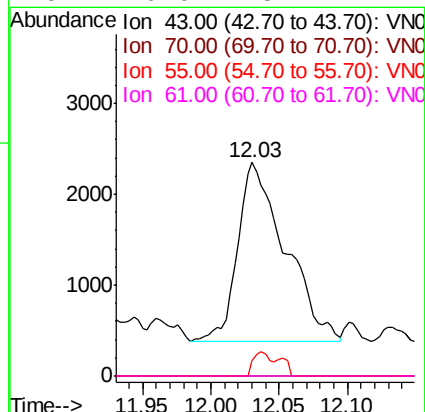
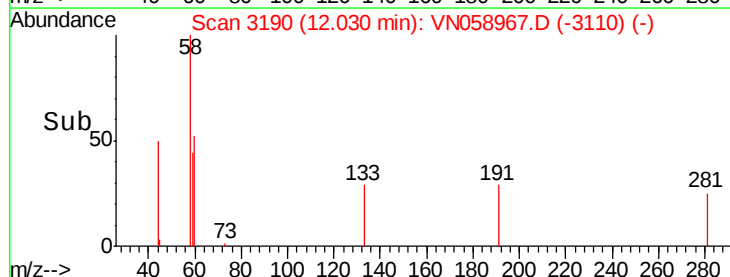


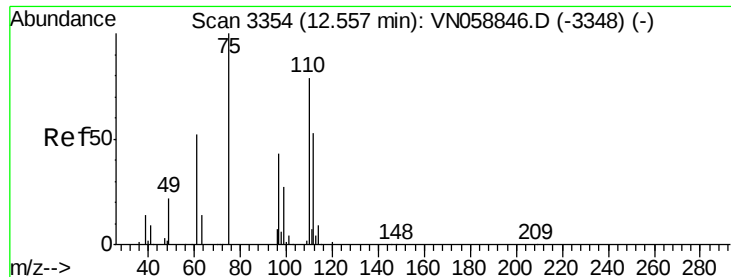
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 27.939 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

Instrument :

MSVOA_N

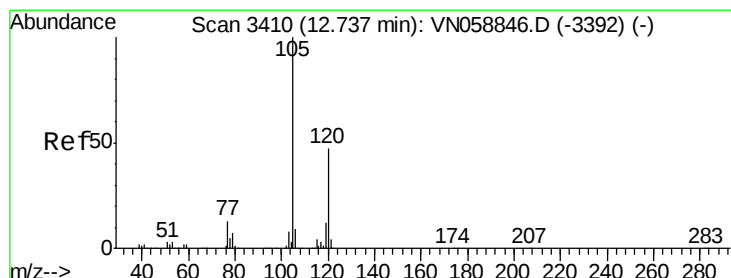
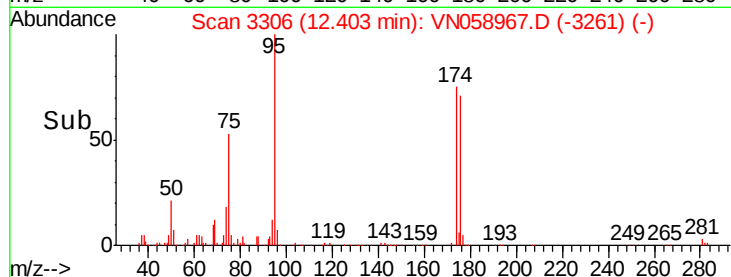
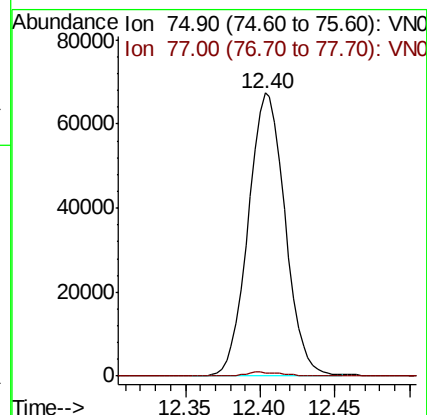
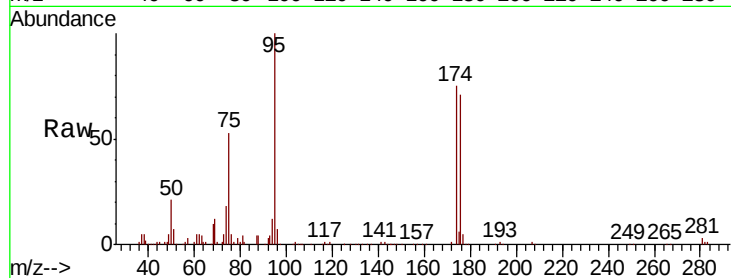
ClientSampleId :

Tot Ion: 75 Resp: 115573

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.390 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058967.D

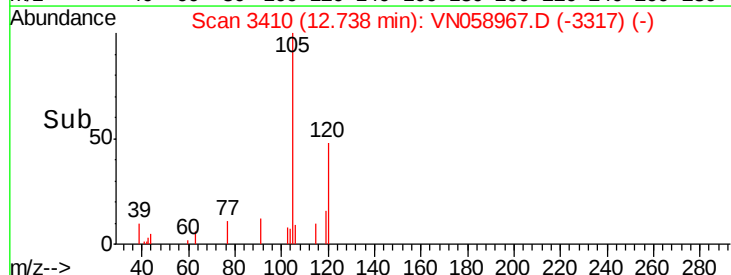
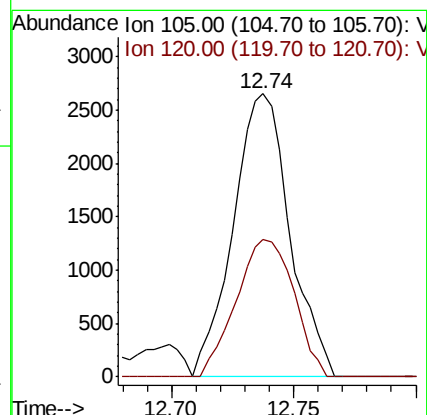
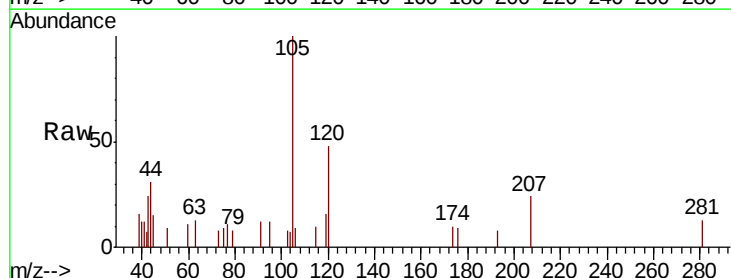
Acq: 24 Oct 2019 17:24

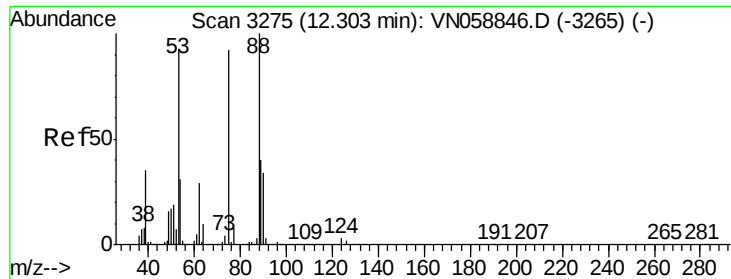
Tgt Ion: 105 Resp: 4275

Ion Ratio Lower Upper

105 100

120 49.5 23.8 71.5

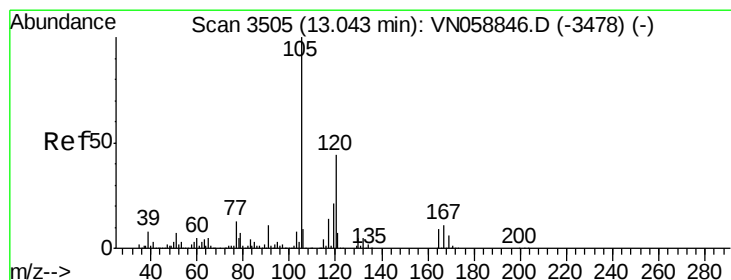
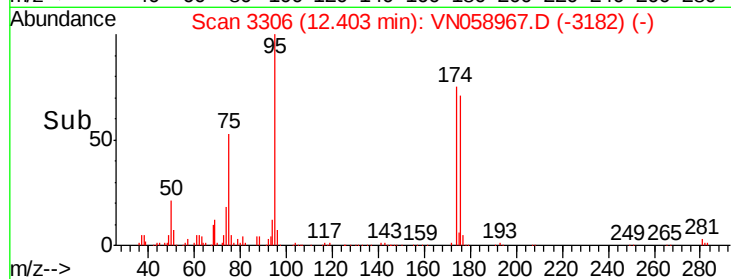
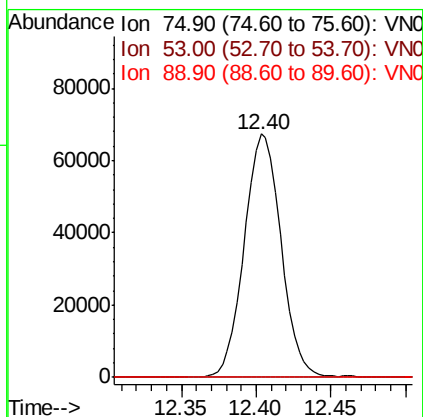
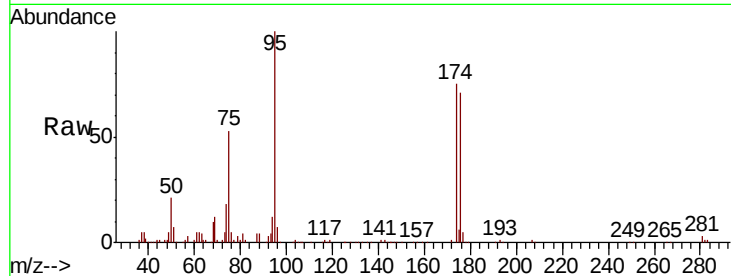




#81
trans-1,4-Dichloro-2-butene
Concen: 72.783 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN058967.D
Acq: 24 Oct 2019 17:24

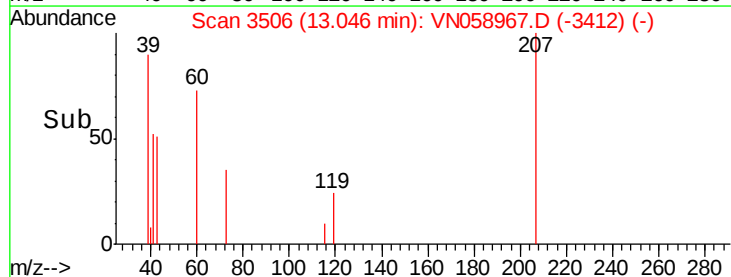
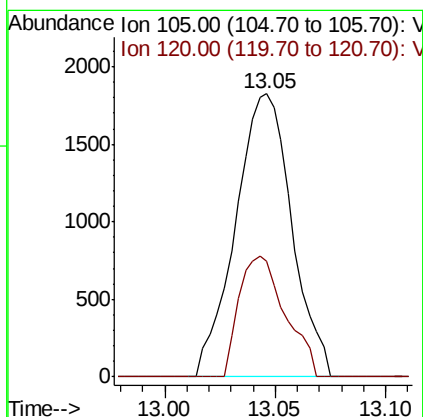
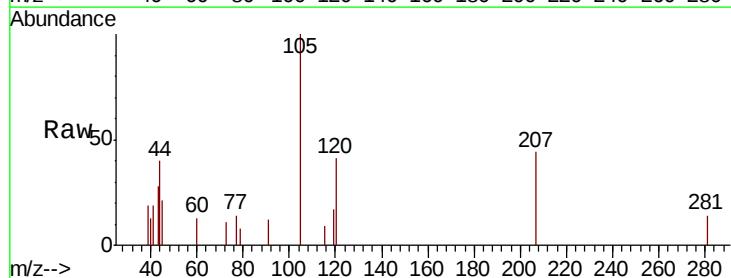
Instrument :
MSVOA_N
ClientSampleId :

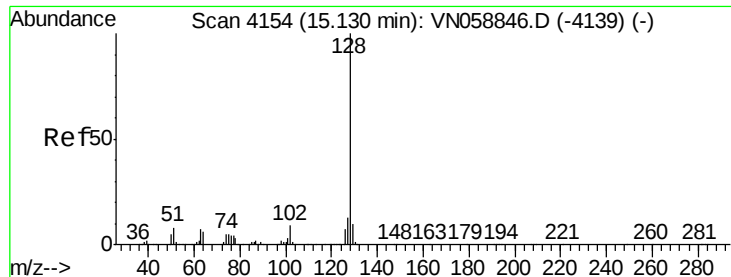
Tot Ion: 75 Resp: 115573
Ion Ratio Lower Upper
75 100
53 0.0 78.6 118.0#
89 0.0 35.4 53.0#



#84
1,2,4-Trimethylbenzene
Concen: 0.299 ug/l
RT: 13.05 min Scan# 3506
Delta R.T. 0.00 min
Lab File: VN058967.D
Acq: 24 Oct 2019 17:24

Tgt Ion: 105 Resp: 3233
Ion Ratio Lower Upper
105 100
120 35.1 21.9 65.8





#95

Naphthalene

Concen: 2.423 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058967.D

Acq: 24 Oct 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

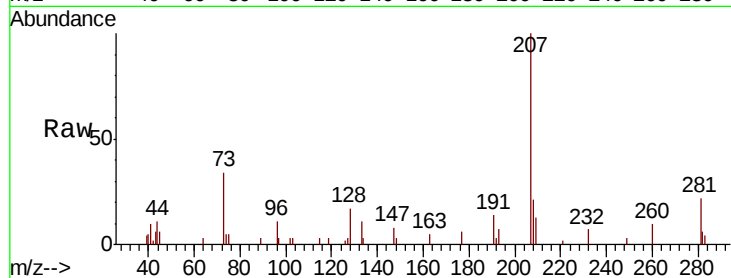
Tot Ion:128 Resp: 2119

Ion Ratio Lower Upper

128 100

127 12.4 10.2 15.2

129 4.6 8.4 12.6#



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

