

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058212.D
 Acq On : 19 Sep 2019 18:31
 Operator : JC/SP
 Sample : K4952-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 04:23:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	511964	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	821442	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	704531	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	281522	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	369268	51.79	ug/l	0.00
Spiked Amount			Recovery	=	103.58%	
35) Dibromofluoromethane	7.57	113	255152	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	
50) Toluene-d8	10.08	98	1037362	53.32	ug/l	0.00
Spiked Amount			Recovery	=	106.64%	
62) 4-Bromofluorobenzene	12.41	95	328214	45.41	ug/l	0.00
Spiked Amount			Recovery	=	90.82%	

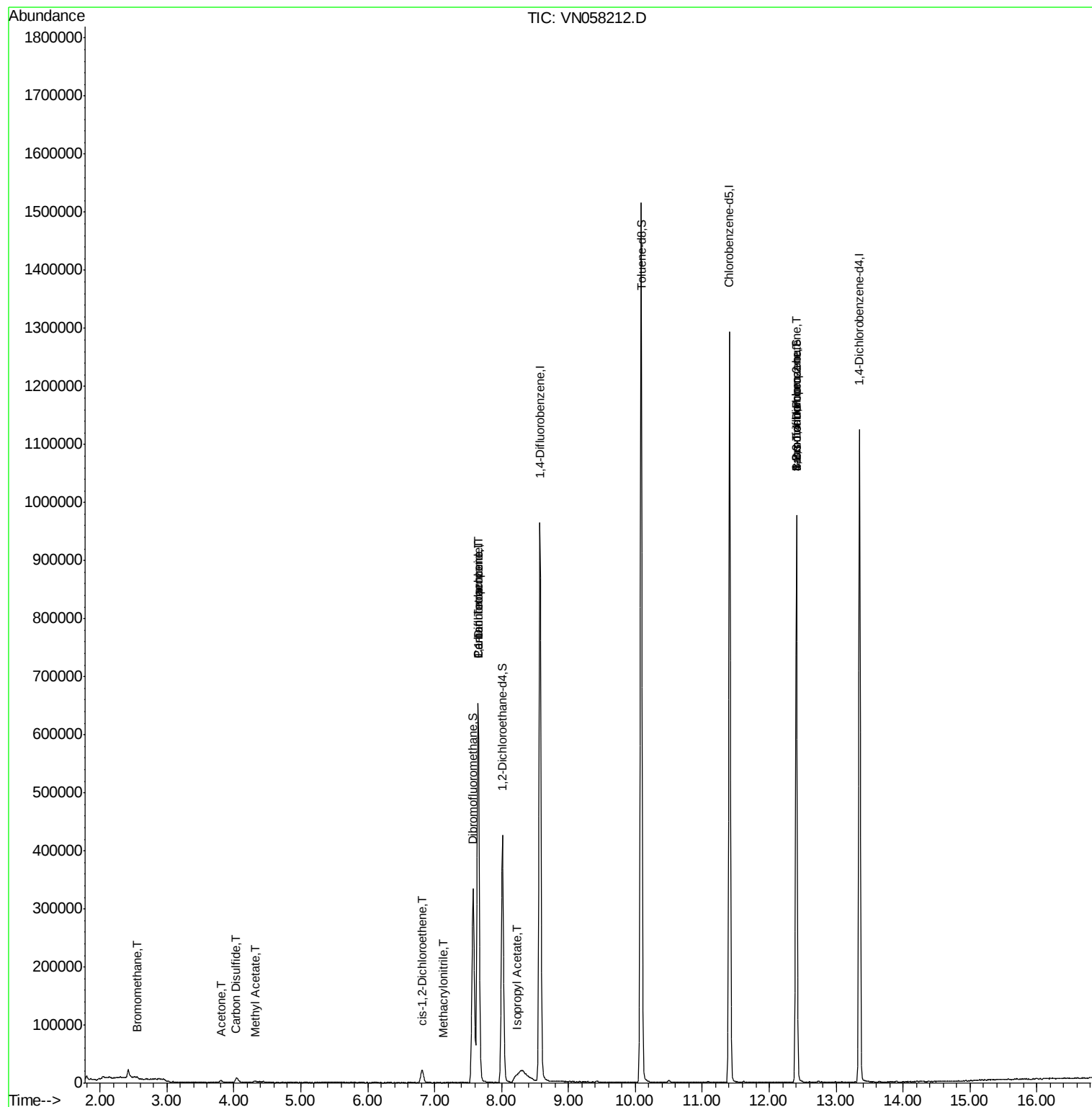
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2370	Below Cal		95
4) Vinyl Chloride	2.16	62	356	Below Cal	#	43
5) Bromomethane	2.56	94	188	0.821	ug/l #	11
6) Chloroethane	2.76	64	33	Below Cal	#	44
12) 1,1-Dichloroethene	3.91	96	63	Below Cal	#	1
16) Acetone	3.80	43	5808	2.400	ug/l	94
17) Carbon Disulfide	4.02	76	97	0.293	ug/l #	74
18) Methyl Acetate	4.32	43	1377	0.216	ug/l #	75
20) Methylene Chloride	4.51	84	61	Below Cal	#	1
21) trans-1,2-Dichloroethene	5.16	96	66	Below Cal	#	1
27) cis-1,2-Dichloroethene	6.82	96	12325	2.374	ug/l	90
31) Cyclohexane	7.65	56	12024	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	42915	7.244	ug/l #	51
38) Carbon Tetrachloride	7.65	117	51950	8.724	ug/l #	15
41) Methacrylonitrile	7.12	41	29	0.920	ug/l #	100
43) Isopropyl Acetate	8.23	43	16193	1.410	ug/l #	57
71) Bromoform	12.41	173	2242	4.220	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	181578	36.039	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	181578	100.642	ug/l #	5

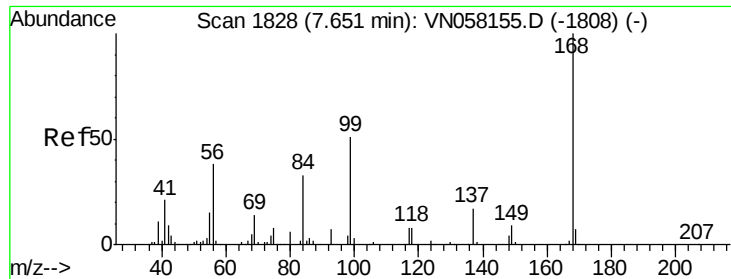
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 19 09:27:53 2019
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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: VN058212.D

Acq: 19 Sep 2019 18:31

Instrument :

MSVOA_N

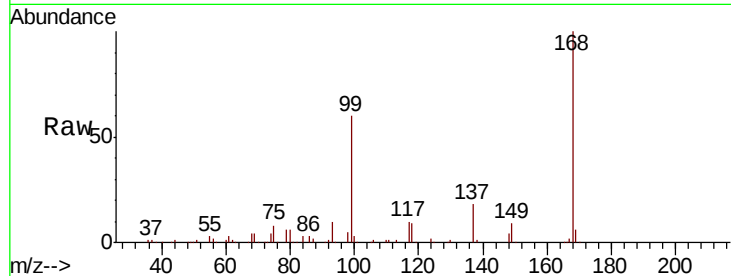
ClientSampleId :

Tot Ion:168 Resp: 511964

Ion Ratio Lower Upper

168 100

99 60.4 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

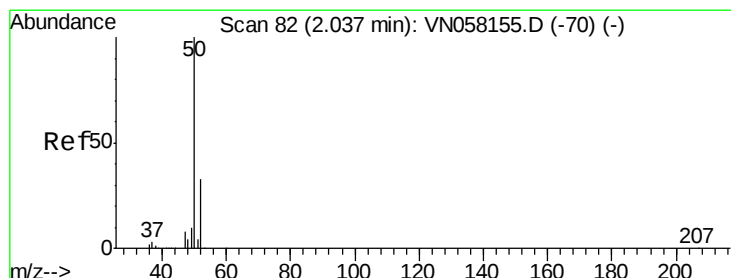
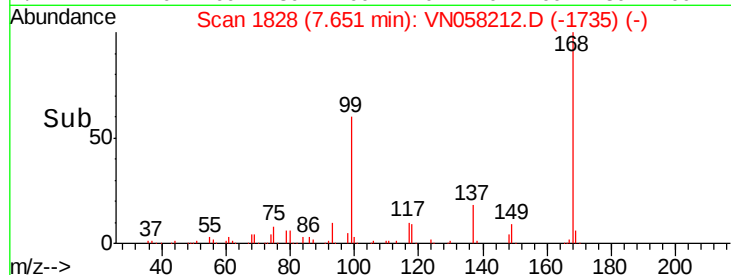
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058212.D

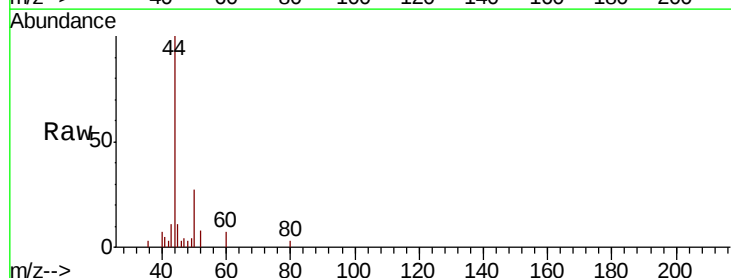
Acq: 19 Sep 2019 18:31

Tgt Ion: 50 Resp: 2370

Ion Ratio Lower Upper

50 100

52 29.8 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

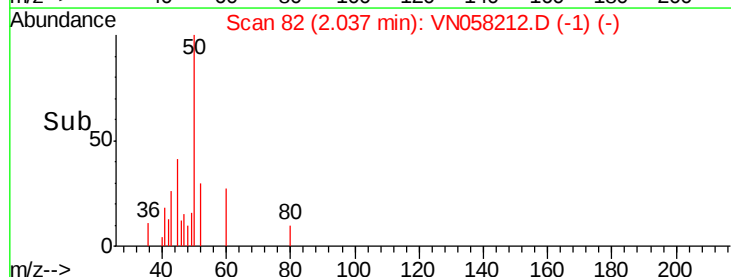
1500

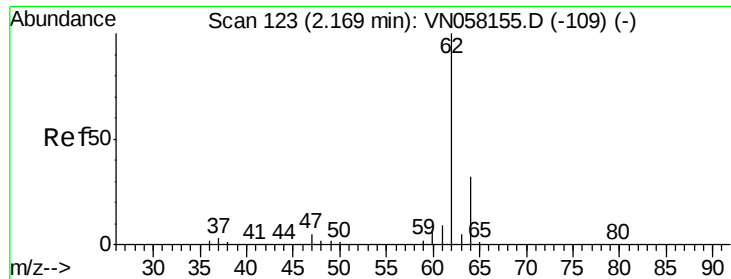
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.16 min Scan# 121

Delta R.T. -0.01 min

Lab File: VN058212.D

Acq: 19 Sep 2019 18:31

Instrument :

MSVOA_N

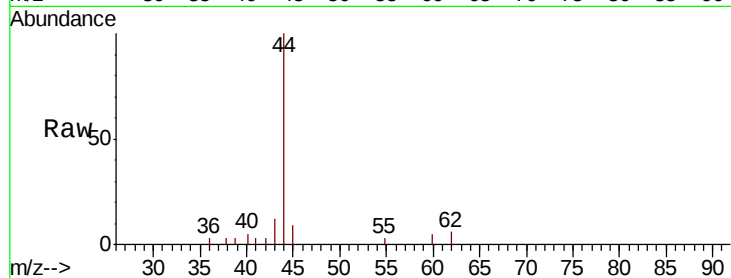
ClientSampleId :

Tot Ion: 62 Resp: 356

Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.16

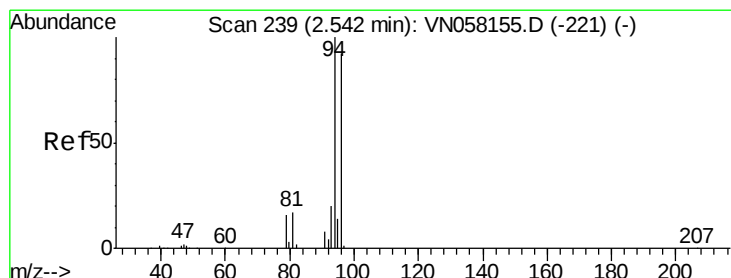
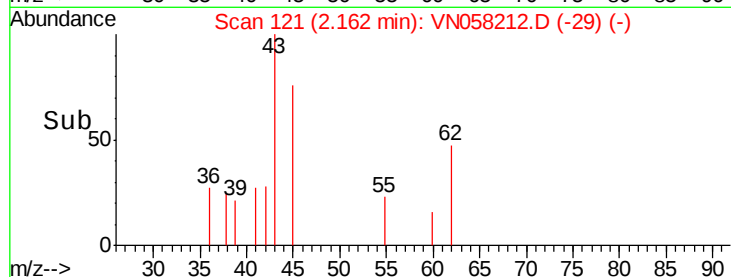
300

200

100

0

Time-->



#5

Bromomethane

Concen: 0.821 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.02 min

Lab File: VN058212.D

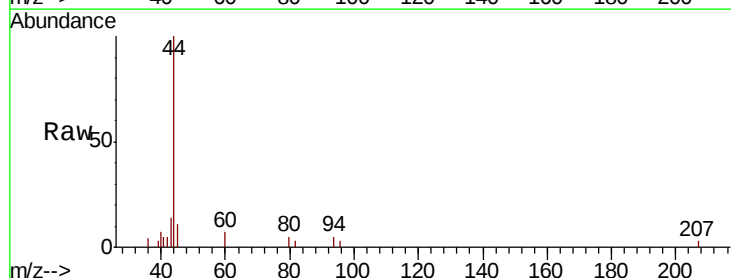
Acq: 19 Sep 2019 18:31

Tgt Ion: 94 Resp: 188

Ion Ratio Lower Upper

94 100

96 6.8 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

400

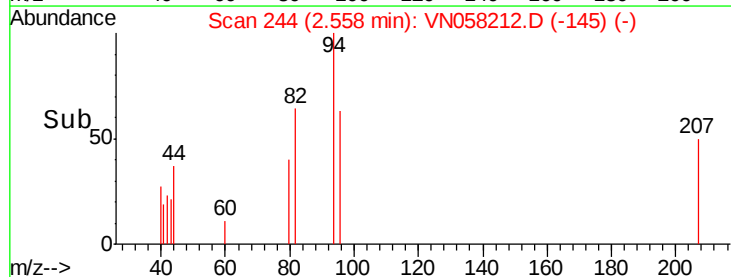
300

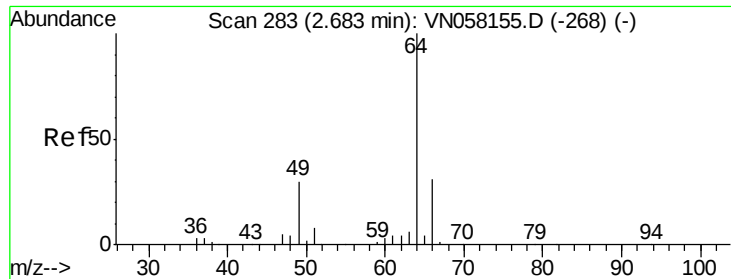
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.76 min Scan# 307

Delta R.T. 0.08 min

Lab File: VN058212.D

Acq: 19 Sep 2019 18:31

Instrument :

MSVOA_N

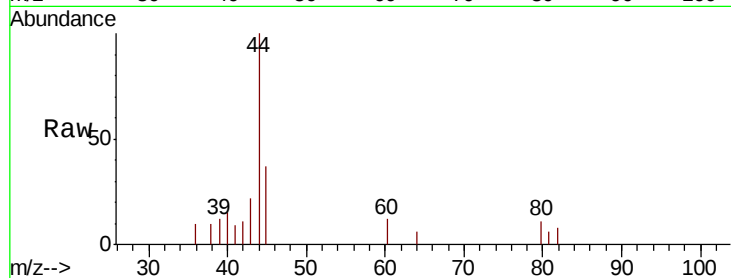
ClientSampleId :

Tot Ion: 64 Resp: 33

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.76

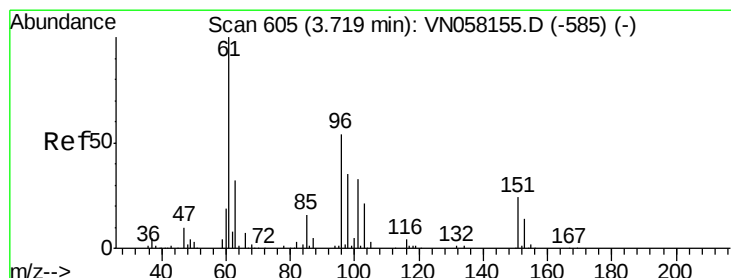
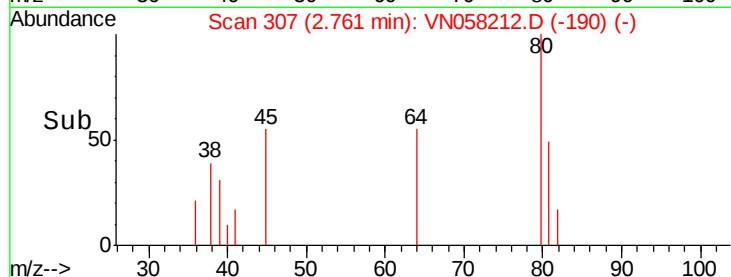
150

100

50

0

Time-->



#12

1,1-Dichloroethene

Concen: Below Cal

RT: 3.91 min Scan# 664

Delta R.T. 0.19 min

Lab File: VN058212.D

Acq: 19 Sep 2019 18:31

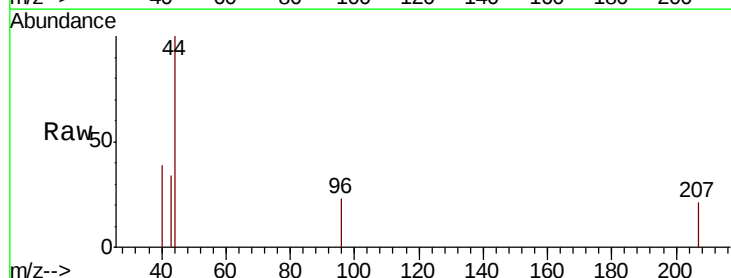
Tgt Ion: 96 Resp: 63

Ion Ratio Lower Upper

96 100

61 0.0 149.5 224.3#

98 0.0 52.4 78.6#



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

3.91

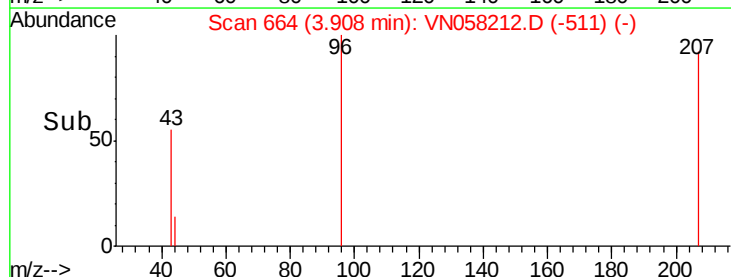
150

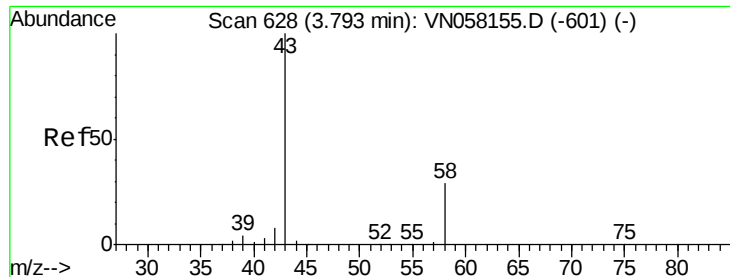
100

50

0

Time-->





#16

Acetone

Concen: 2.400 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058212.D

Acq: 19 Sep 2019 18:31

Instrument :

MSVOA_N

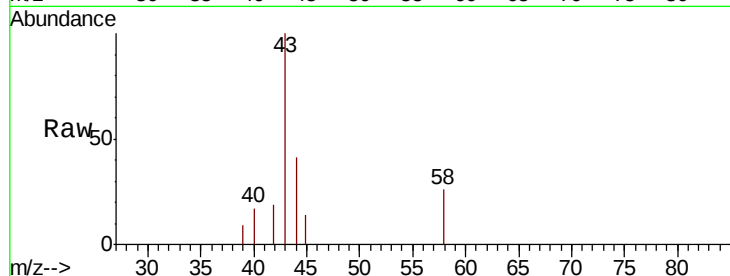
ClientSampled :

Tot Ion: 43 Resp: 5808

Ion Ratio Lower Upper

43 100

58 26.1 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN058155.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN058155.D (-601) (-)

3.80

1500

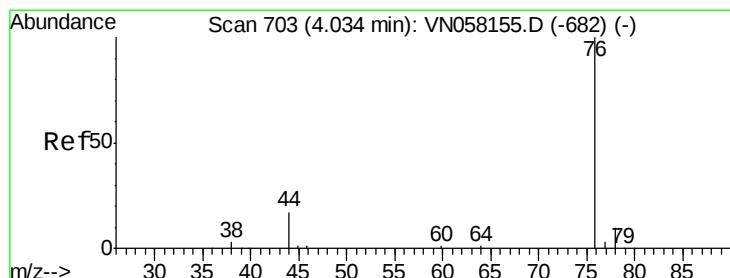
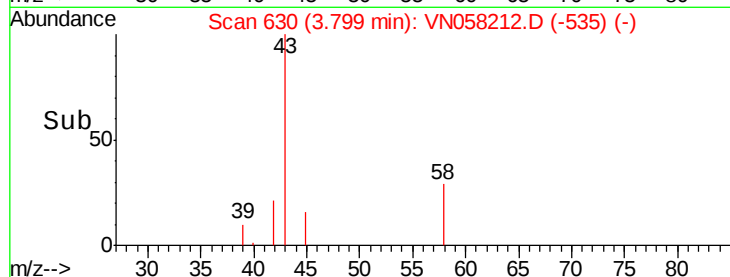
1000

500

0

3.75 3.80 3.85 3.90

Time-->



#17

Carbon Disulfide

Concen: 0.293 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN058212.D

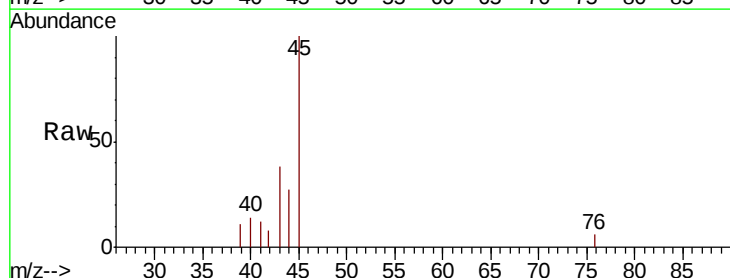
Acq: 19 Sep 2019 18:31

Tgt Ion: 76 Resp: 97

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN058155.D (-682) (-)

Ion 77.90 (77.60 to 78.60): VN058155.D (-682) (-)

4.02

200

150

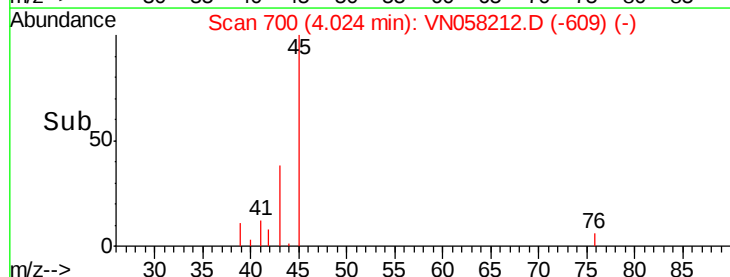
100

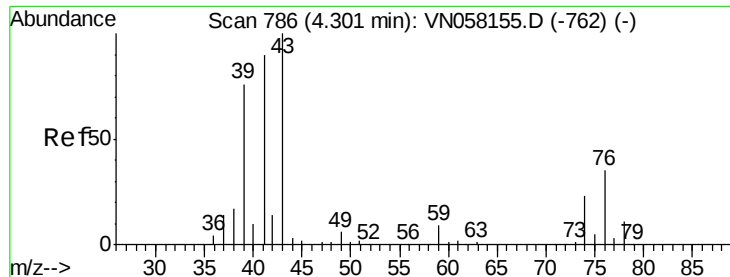
50

0

4.01 4.02 4.03 4.04

Time-->

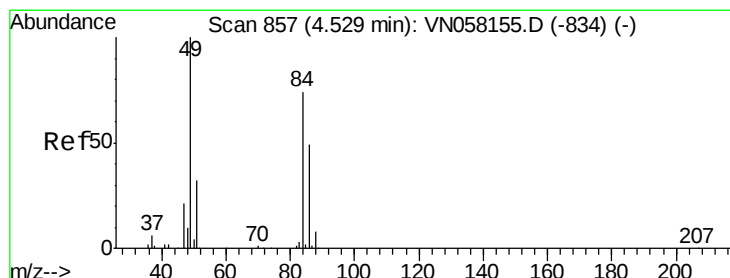
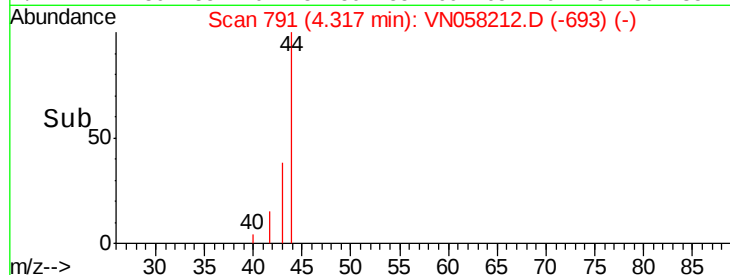
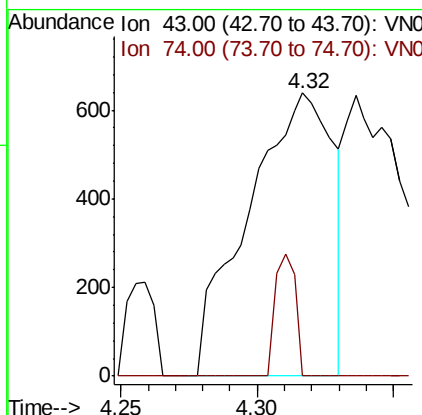
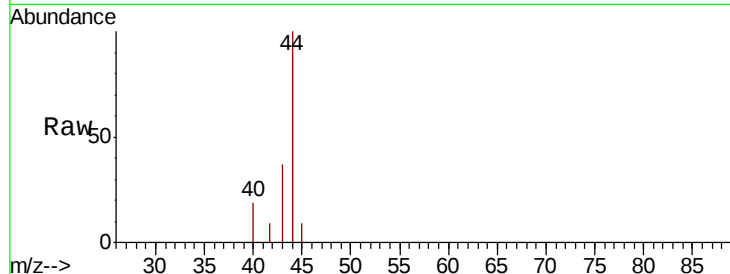




#18
Methyl Acetate
Concen: 0.216 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.02 min
Lab File: VN058212.D
Acq: 19 Sep 2019 18:31

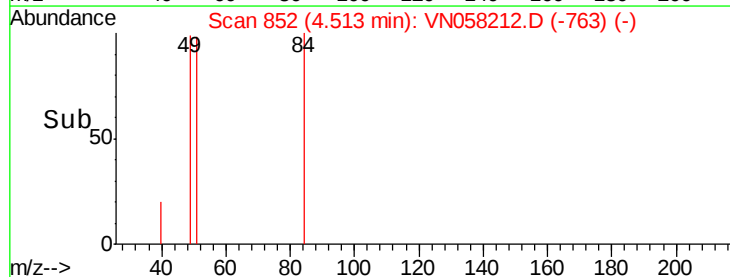
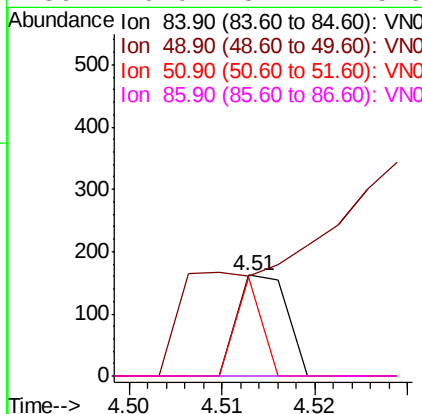
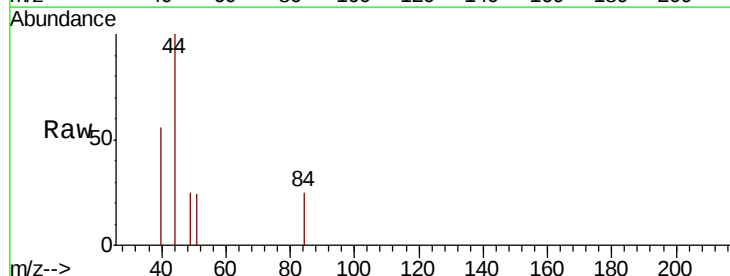
Instrument :
MSVOA_N
ClientSampled :

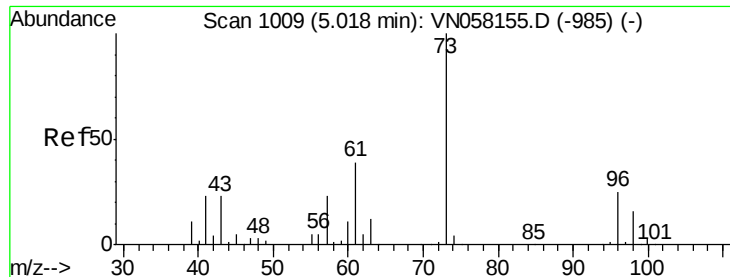
Tot Ion: 43 Resp: 1377
Ion Ratio Lower Upper
43 100
74 10.3 18.0 27.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.51 min Scan# 852
Delta R.T. -0.02 min
Lab File: VN058212.D
Acq: 19 Sep 2019 18:31

Tgt Ion: 84 Resp: 61
Ion Ratio Lower Upper
84 100
49 0.0 107.5 161.3#
51 97.5 33.9 50.9#
86 0.0 52.4 78.6#



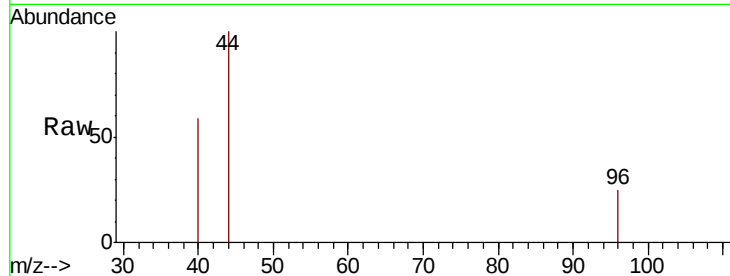


#21

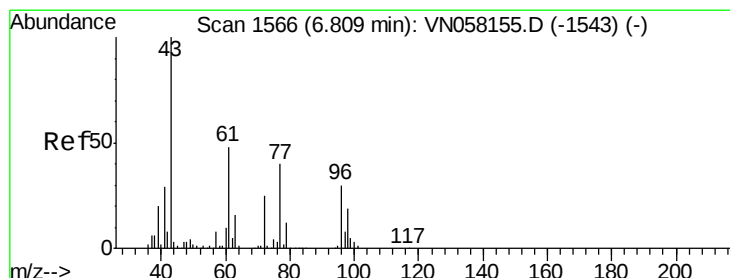
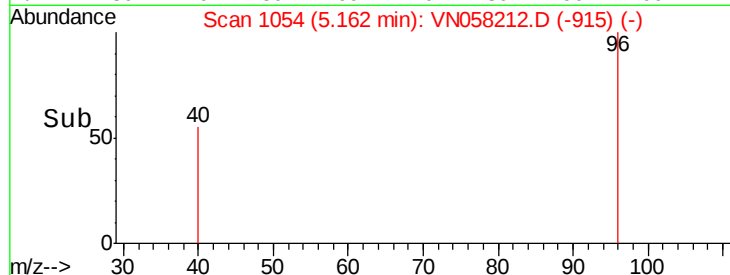
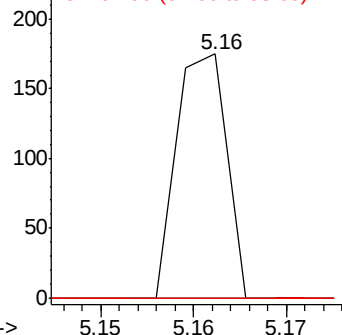
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.16 min Scan# 1054
Delta R.T. 0.15 min
Lab File: VN058212.D
Acq: 19 Sep 2019 18:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 96 Resp: 66
Ion Ratio Lower Upper
96 100
61 0.0 122.2 183.4#
98 0.0 49.9 74.9#



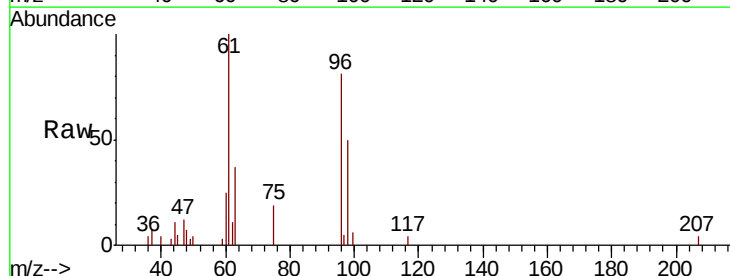
Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



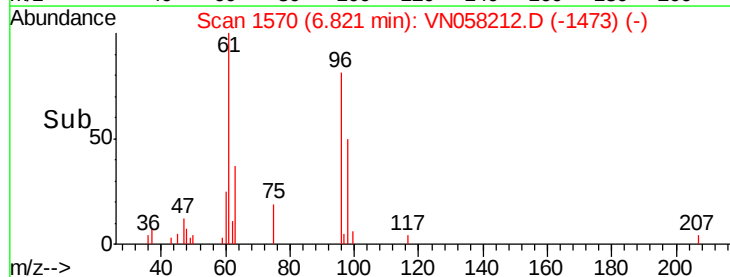
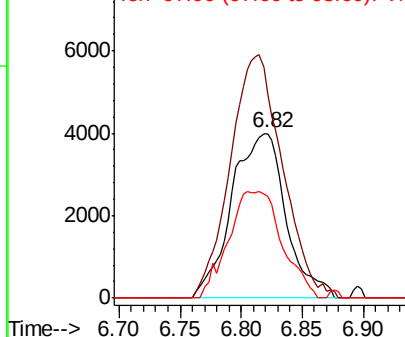
#27

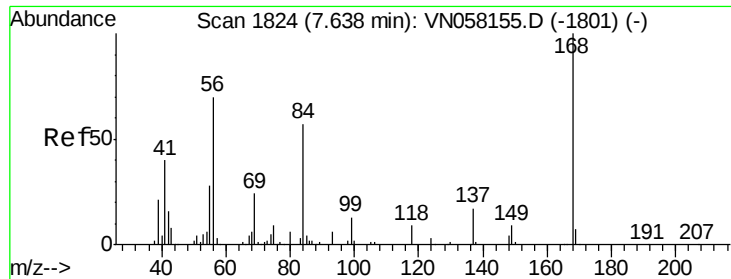
cis-1,2-Dichloroethene
Concen: 2.374 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN058212.D
Acq: 19 Sep 2019 18:31

Tgt Ion: 96 Resp: 12325
Ion Ratio Lower Upper
96 100
61 142.1 0.0 319.0
98 64.0 0.0 126.6



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058212.D

Acq: 19 Sep 2019 18:31

Instrument :

MSVOA_N

ClientSampled :

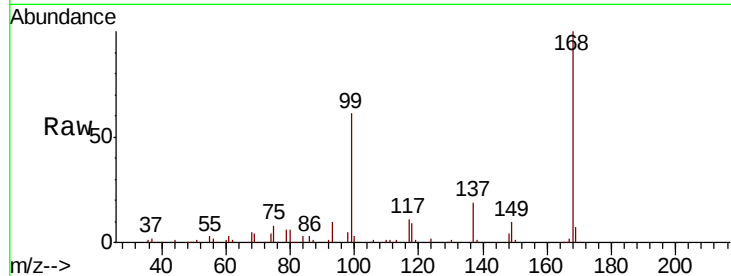
Tot Ion: 56 Resp: 12024

Ion Ratio Lower Upper

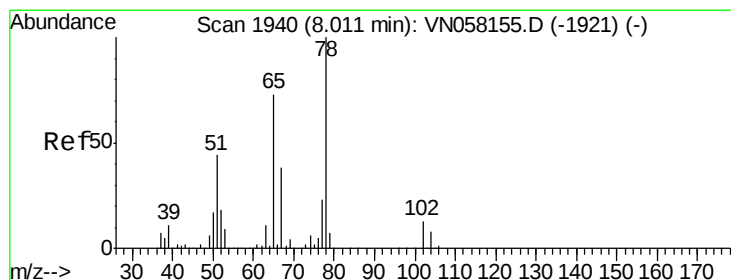
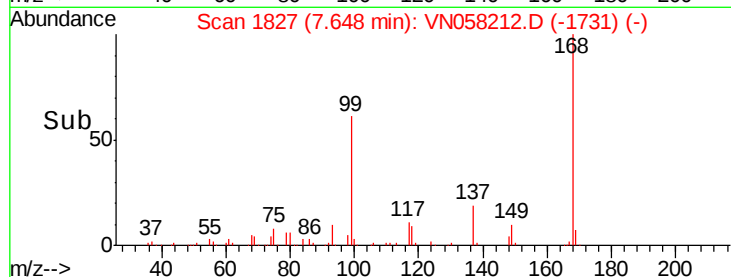
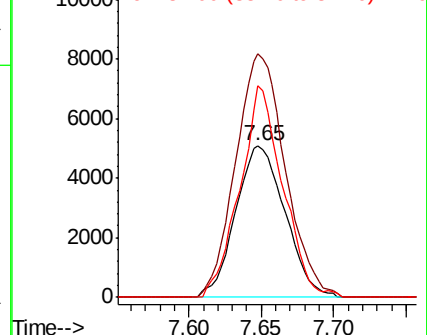
56 100

69 160.7 27.3 40.9#

84 139.3 65.0 97.4#



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: 51.786 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058212.D

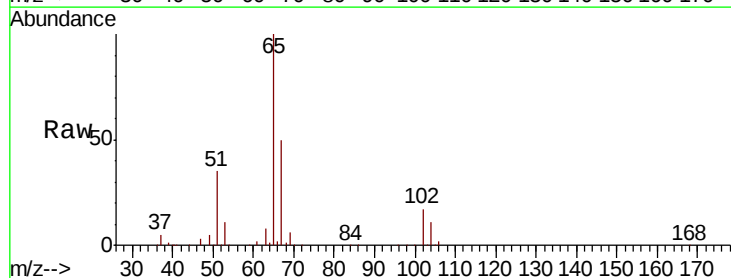
Acq: 19 Sep 2019 18:31

Tgt Ion: 65 Resp: 369268

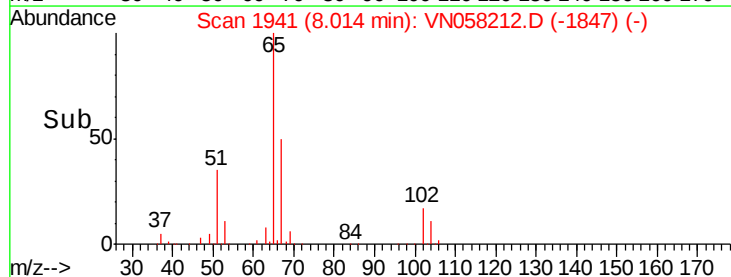
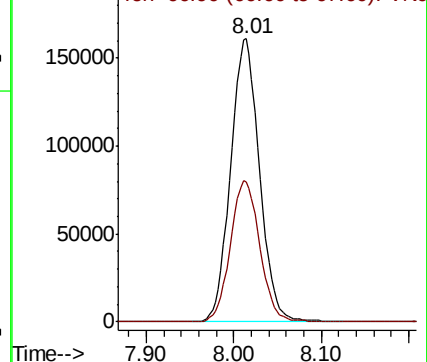
Ion Ratio Lower Upper

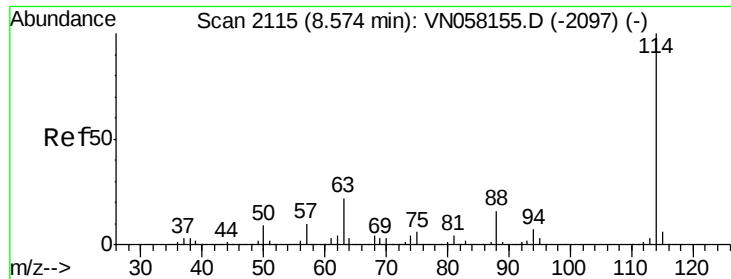
65 100

67 50.6 0.0 103.4



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

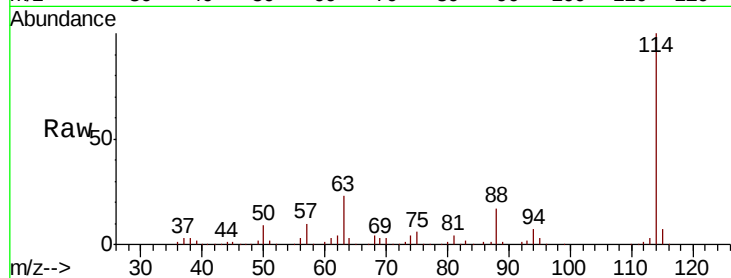




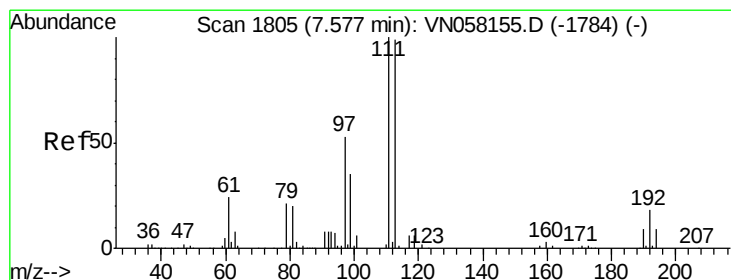
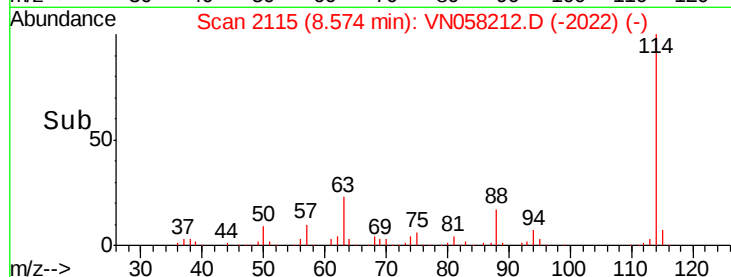
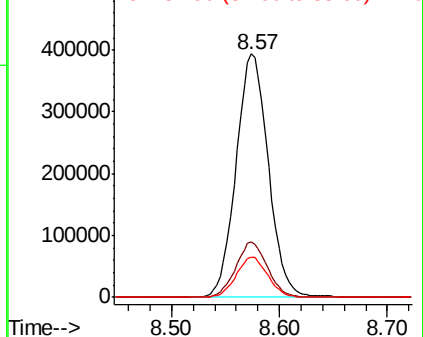
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058212.D
 Acq: 19 Sep 2019 18:31

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 821442
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 44.2
 88 16.6 0.0 31.6

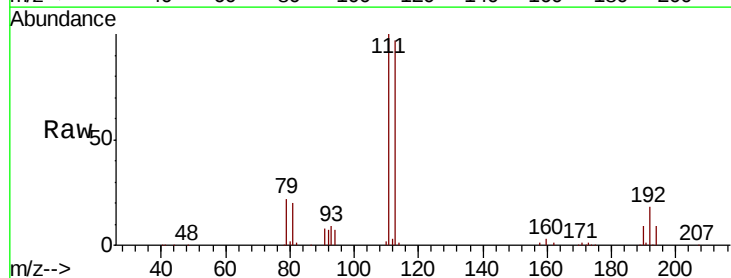


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

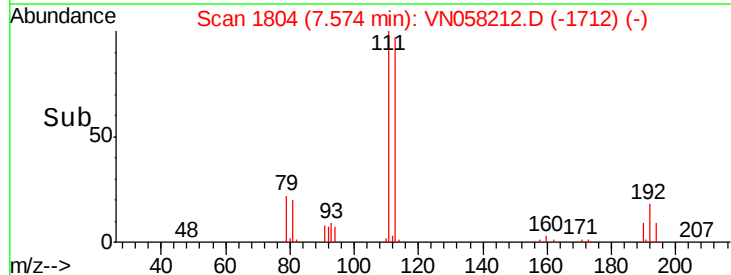
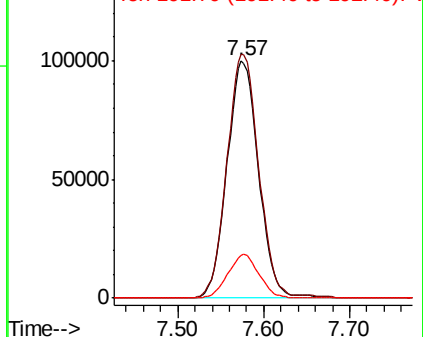


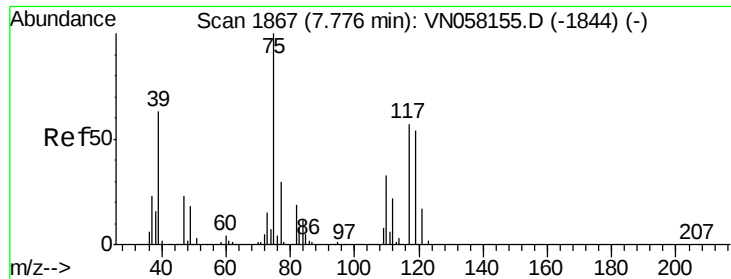
#35
 Dibromofluoromethane
 Concen: 51.095 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058212.D
 Acq: 19 Sep 2019 18:31

Tgt Ion:113 Resp: 255152
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.8 122.6
 192 18.1 14.5 21.7



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

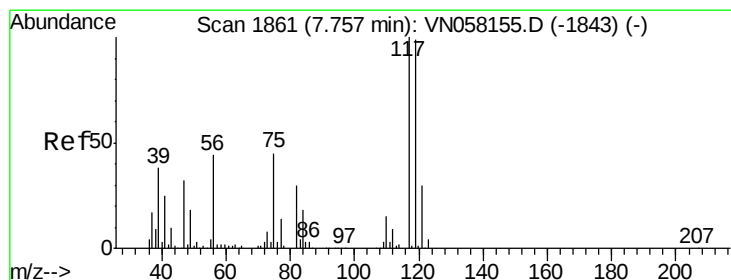
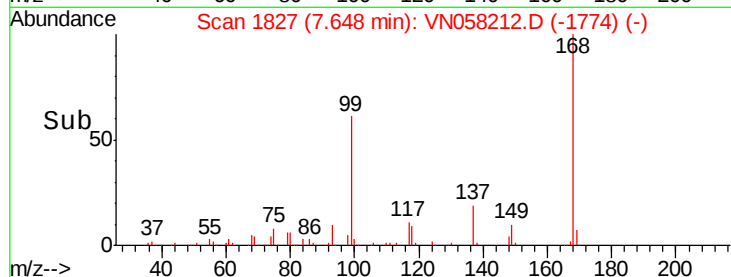
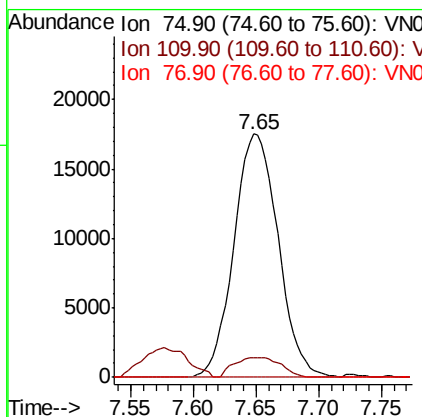
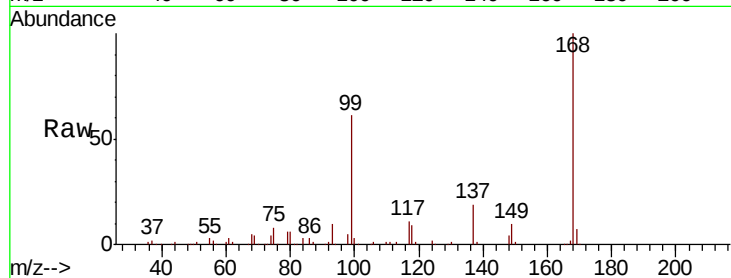




#36
 1,1-Dichloropropene
 Concen: 7.244 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058212.D
 Acq: 19 Sep 2019 18:31

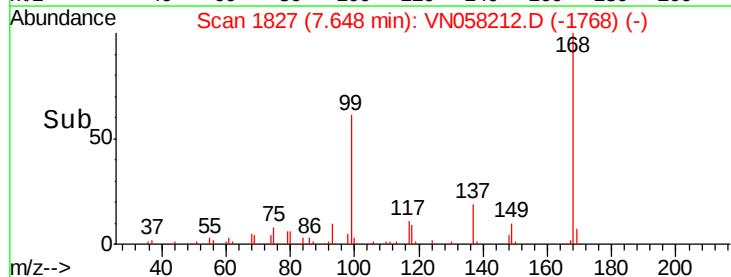
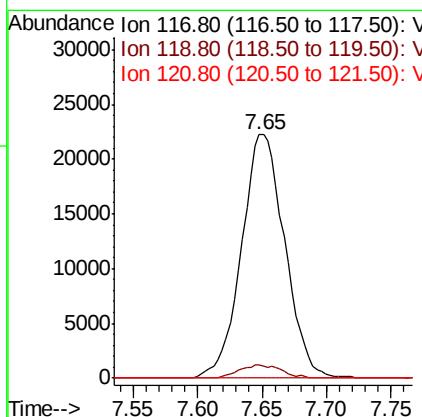
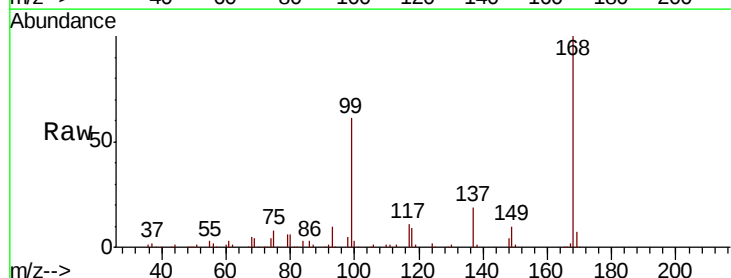
Instrument :
 MSVOA_N
 ClientSampled :

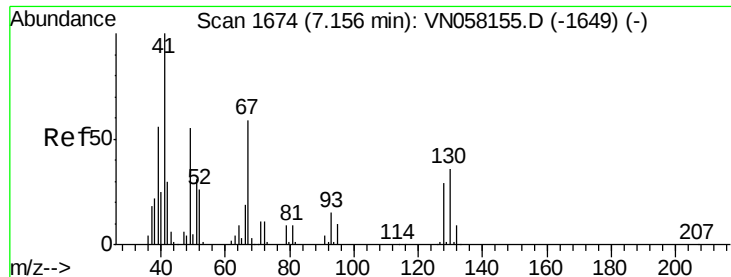
Tot Ion	75	Resp	42915
Ion Ratio	100	Lower	Upper
75	100		
110	8.6	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.724 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058212.D
 Acq: 19 Sep 2019 18:31

Tgt Ion	117	Resp	51950
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.4	78.6	117.8#
121	0.0	24.1	36.1#

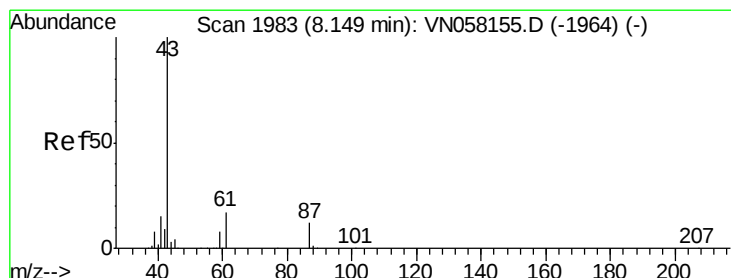
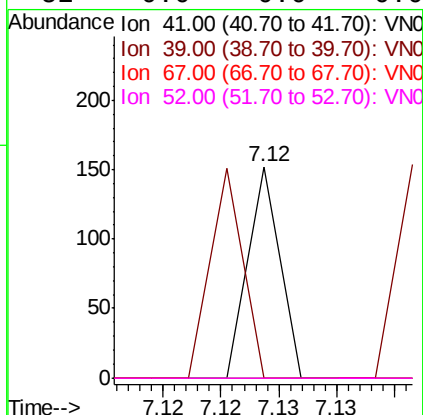
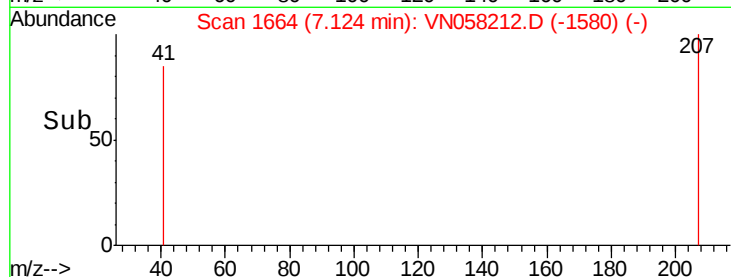
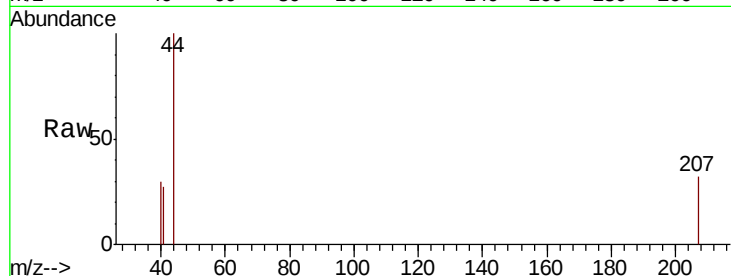




#41
Methacrylonitrile
Concen: 0.920 ug/l
RT: 7.12 min Scan# 1664
Delta R.T. -0.03 min
Lab File: VN058212.D
Acq: 19 Sep 2019 18:31

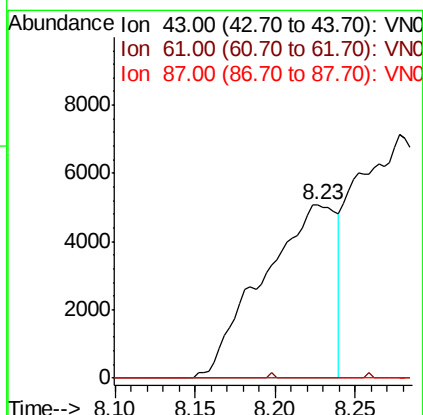
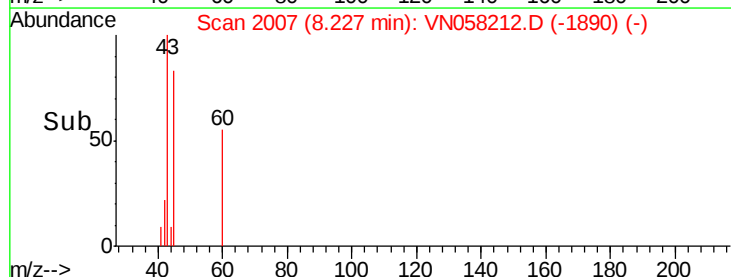
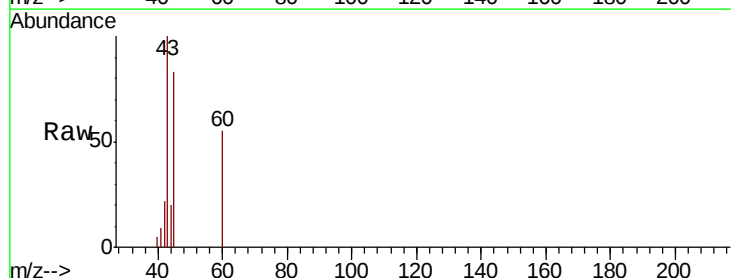
Instrument :
MSVOA_N
ClientSampleId :

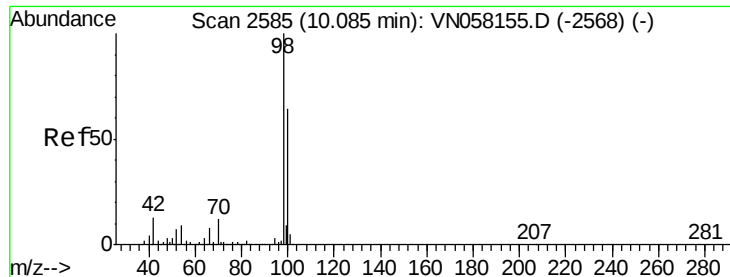
Tot Ion:	41	Resp:	29
Ion	Ratio	Lower	Upper
41	100		
39	100.0	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 1.410 ug/l
RT: 8.23 min Scan# 2007
Delta R.T. 0.08 min
Lab File: VN058212.D
Acq: 19 Sep 2019 18:31

Tgt Ion:	43	Resp:	16193
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#





#50

Toluene-d8

Concen: 53.317 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058212.D

Acq: 19 Sep 2019 18:31

Instrument :

MSVOA_N

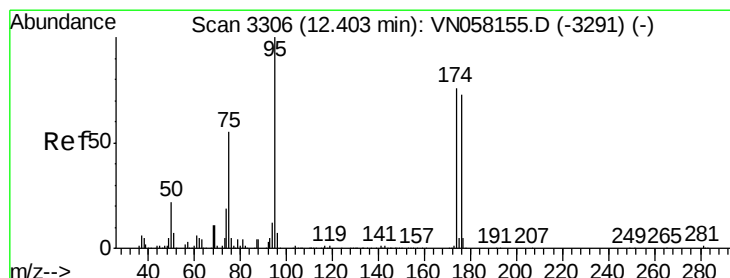
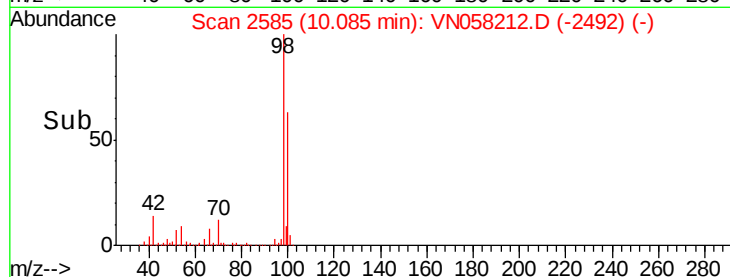
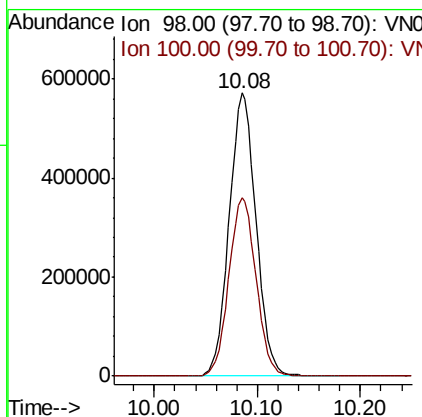
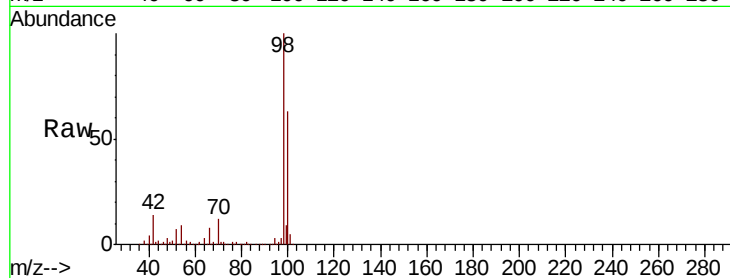
ClientSampled :

Tot Ion: 98 Resp: 1037362

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



#62

4-Bromofluorobenzene

Concen: 45.413 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058212.D

Acq: 19 Sep 2019 18:31

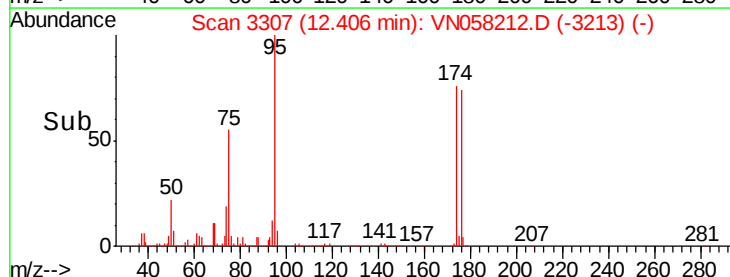
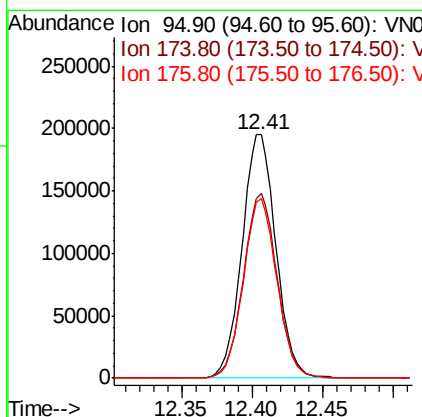
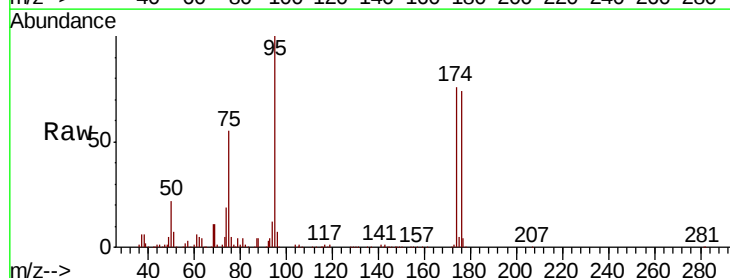
Tgt Ion: 95 Resp: 328214

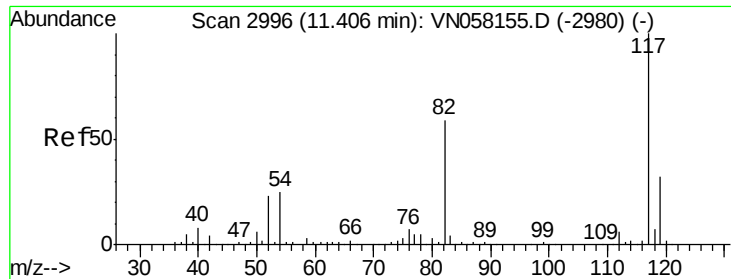
Ion Ratio Lower Upper

95 100

174 75.6 0.0 152.2

176 73.3 0.0 148.0

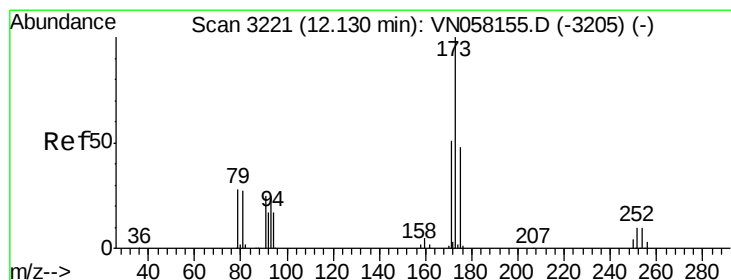
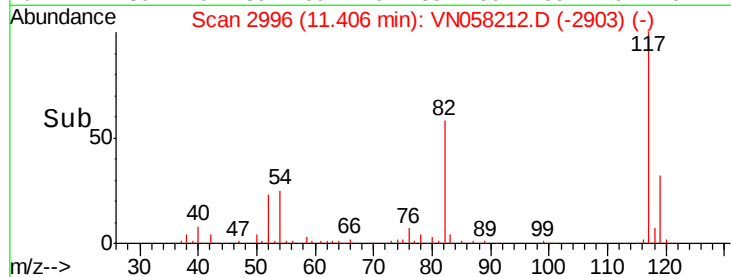
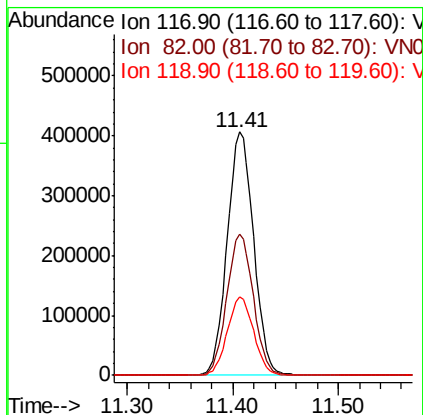
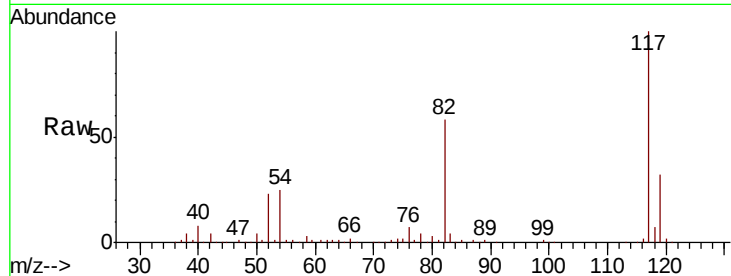




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058212.D
Acq: 19 Sep 2019 18:31

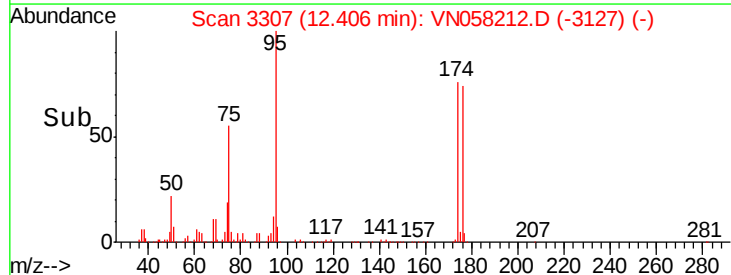
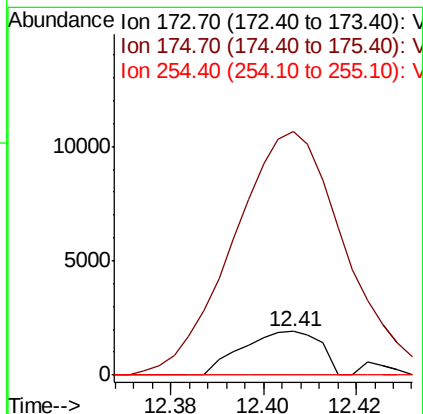
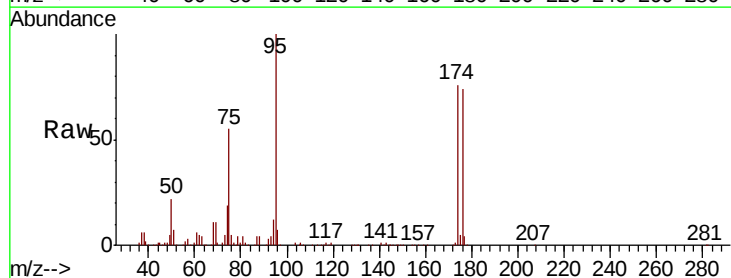
Instrument :
MSVOA_N
ClientSampled :

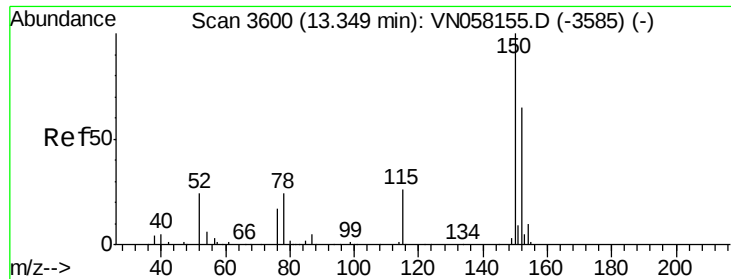
Tot Ion:117 Resp: 704531
Ion Ratio Lower Upper
117 100
82 58.0 46.9 70.3
119 32.1 25.3 37.9



#71
Bromoform
Concen: 4.220 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN058212.D
Acq: 19 Sep 2019 18:31

Tgt Ion:173 Resp: 2242
Ion Ratio Lower Upper
173 100
175 679.8 24.2 72.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058212.D

Acq: 19 Sep 2019 18:31

Instrument :

MSVOA_N

ClientSampleId :

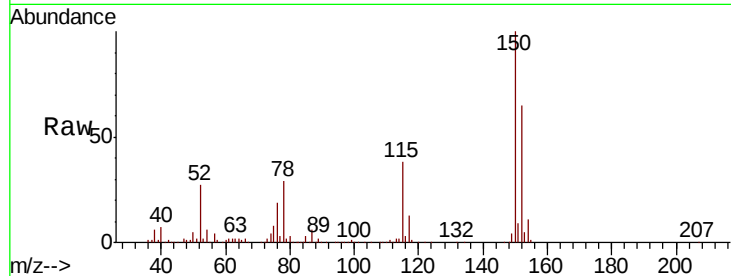
Tot Ion:152 Resp: 281522

Ion Ratio Lower Upper

152 100

115 59.8 30.1 90.3

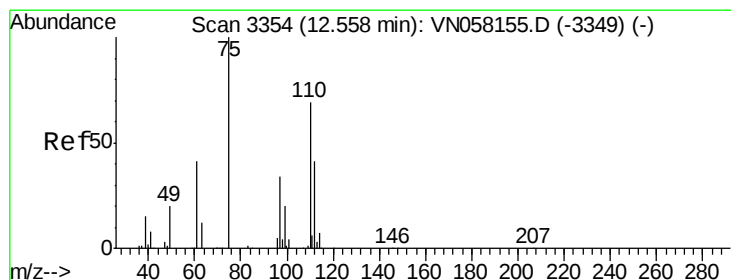
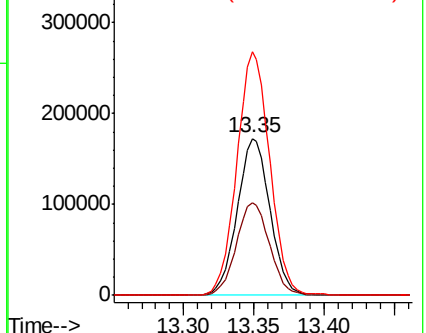
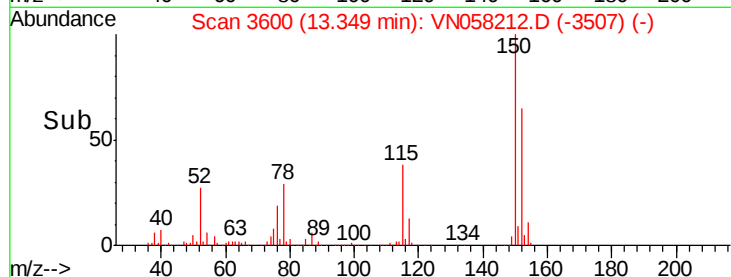
150 156.5 0.0 346.4



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: 36.039 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058212.D

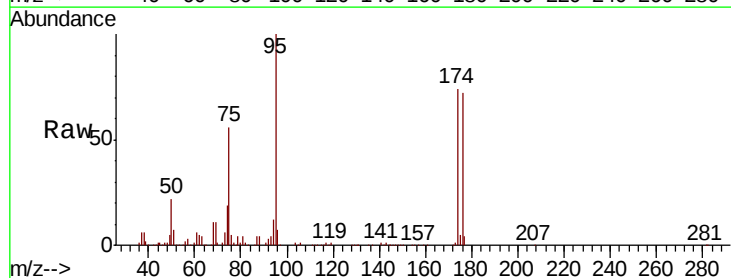
Acq: 19 Sep 2019 18:31

Tgt Ion: 75 Resp: 181578

Ion Ratio Lower Upper

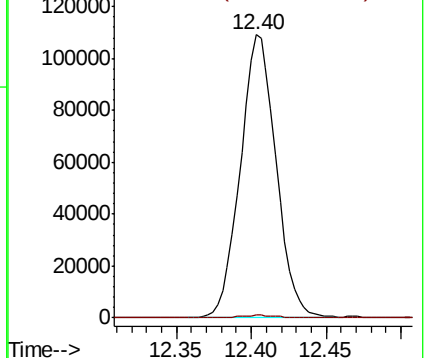
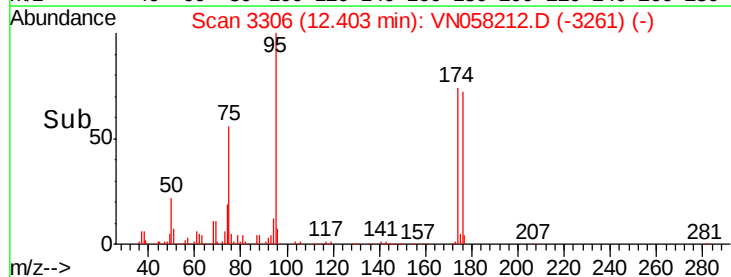
75 100

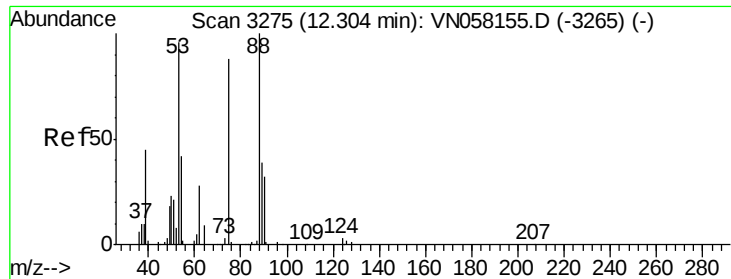
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 100.642 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058212.D

Acq: 19 Sep 2019 18:31

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 181578

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#

