

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\
 Data File : VN058824.D
 Acq On : 17 Oct 2019 14:02
 Operator : JC/SP
 Sample : K5393-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 01:27:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	360232	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	575247	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	533212	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	200758	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	264088	52.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.74%	
35) Dibromofluoromethane	7.57	113	187654	52.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.62%	
50) Toluene-d8	10.08	98	741612	52.19	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.38%	
62) 4-Bromofluorobenzene	12.40	95	240848	44.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.56%	
Target Compounds						
					Qvalue	
16) Acetone	3.81	43	12586	6.028	ug/l	93
18) Methyl Acetate	4.31	43	5399	1.019	ug/l	99
20) Methylene Chloride	4.53	84	11701	2.682	ug/l	85
25) 2-Butanone	6.83	43	2061	0.683	ug/l	93
29) Tetrahydrofuran	7.19	42	391	0.200	ug/l #	69
31) Cyclohexane	7.64	56	8888	1.202	ug/l #	11
36) 1,1-Dichloropropene	7.65	75	30533	5.250	ug/l #	50
38) Carbon Tetrachloride	7.65	117	37495	6.615	ug/l #	17
43) Isopropyl Acetate	8.15	43	91423	9.124	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	1808	0.404	ug/l #	45
48) Methyl methacrylate	9.17	41	5848	1.287	ug/l #	14
49) 1,4-Dioxane	9.25	88	149	2.120	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7436	1.321	ug/l	88
54) cis-1,3-Dichloropropene	9.90	75	40083	5.701	ug/l #	67
56) Ethyl methacrylate	10.54	69	1968	0.322	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6169	0.866	ug/l #	42
59) 2-Hexanone	10.76	43	102428	23.552	ug/l #	53
71) Bromoform	12.40	173	1245	0.424	ug/l #	1
74) N-amyl acetate	12.03	43	5268	0.807	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	128888	29.265	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	128888	78.392	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

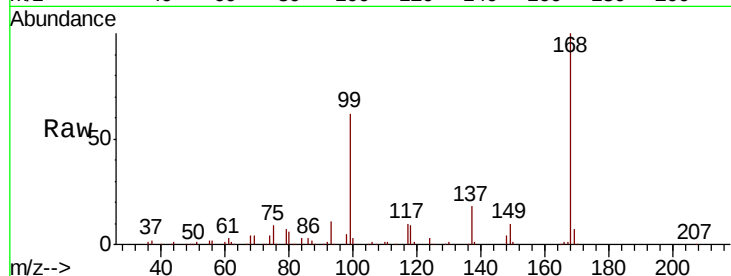
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 360232

Ion Ratio Lower Upper

168 100

99 61.8 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

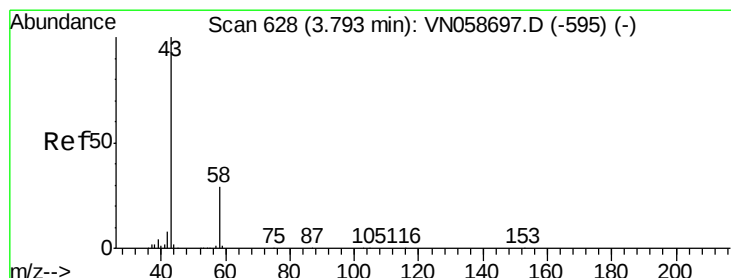
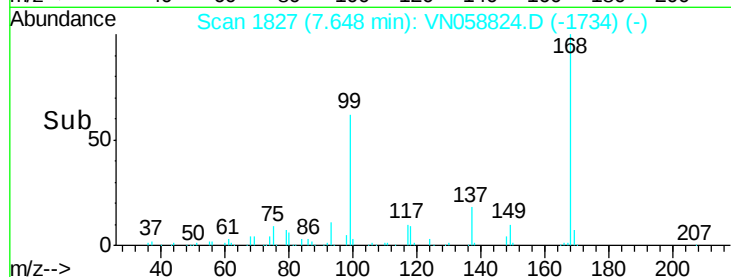
100000

50000

0

Time-->

7.60 7.70



#16

Acetone

Concen: 6.028 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058824.D

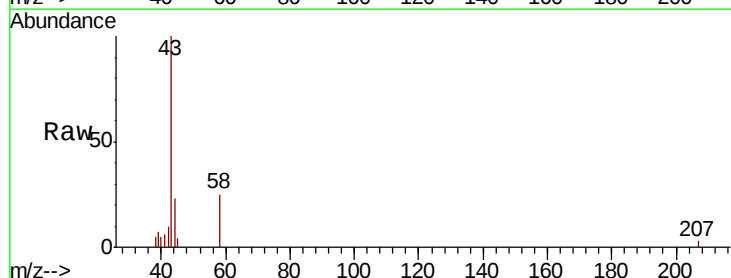
Acq: 17 Oct 2019 14:02

Tgt Ion: 43 Resp: 12586

Ion Ratio Lower Upper

43 100

58 25.5 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.81

5000

4000

3000

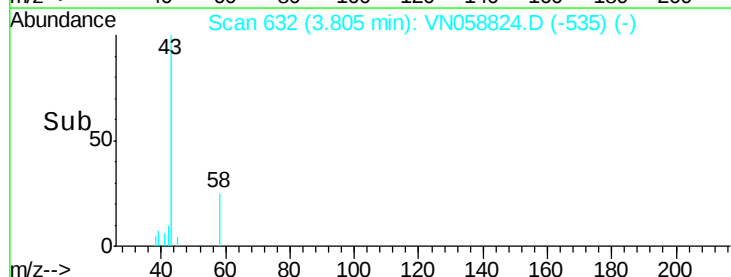
2000

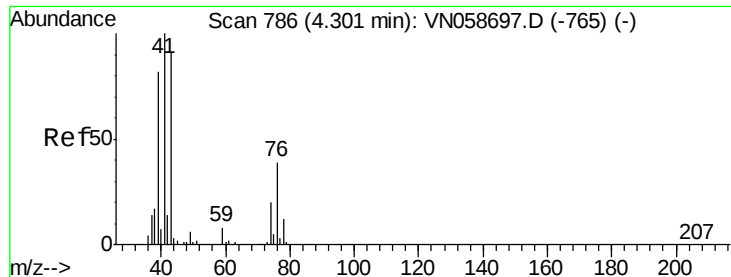
1000

0

Time-->

3.70 3.75 3.80 3.85

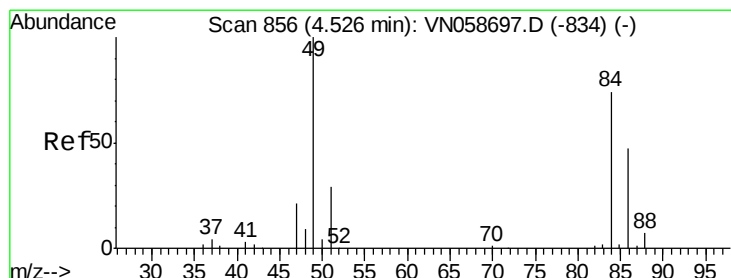
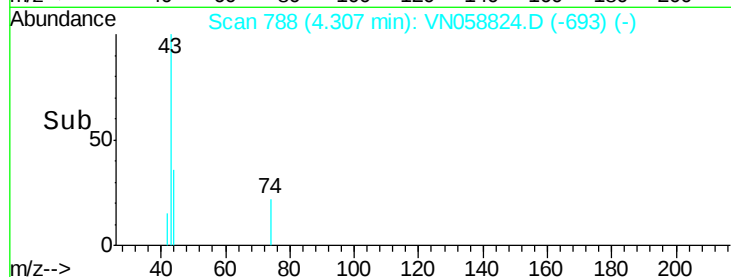
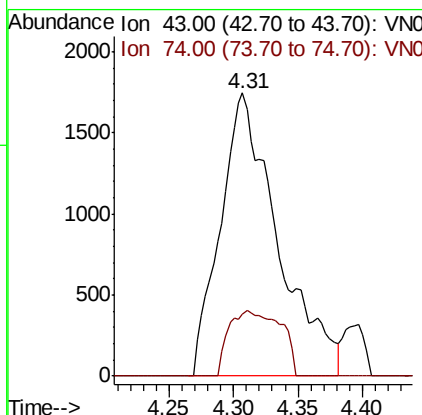
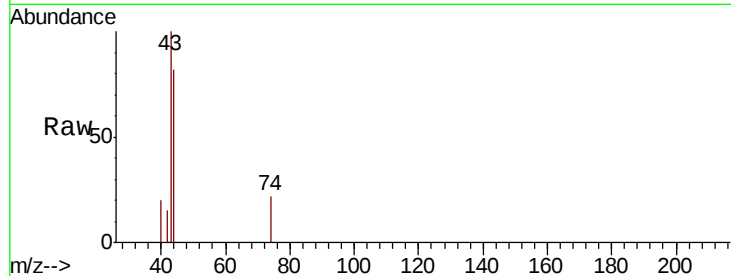




#18
Methyl Acetate
Concen: 1.019 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058824.D
Acq: 17 Oct 2019 14:02

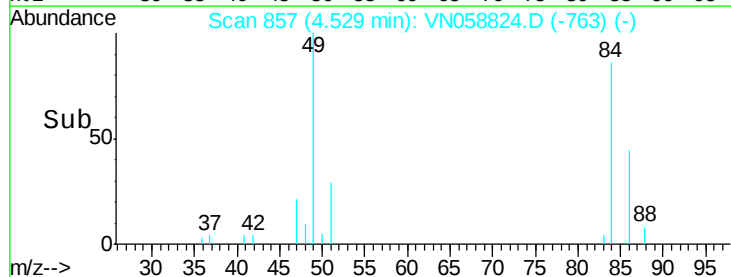
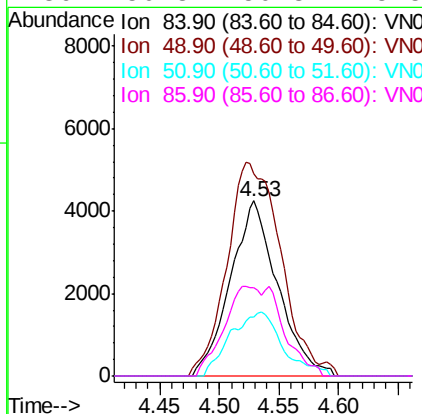
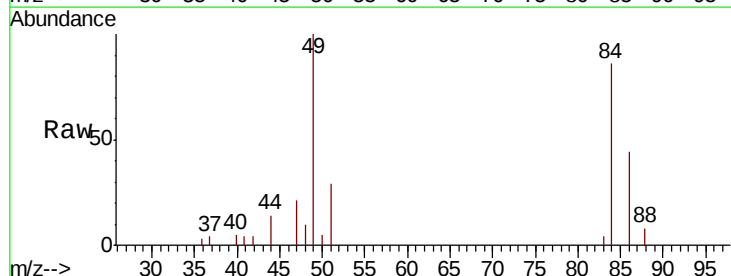
Instrument :
MSVOA_N
ClientSampleId :

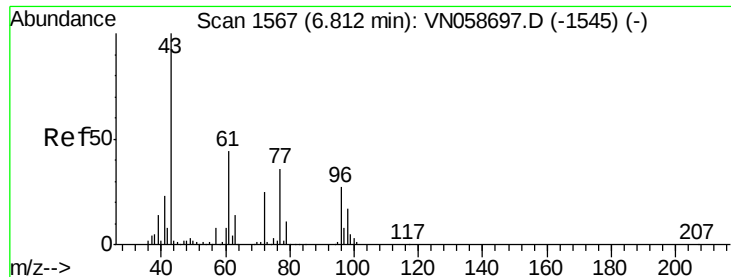
Tot Ion: 43 Resp: 5399
Ion Ratio Lower Upper
43 100
74 20.9 17.2 25.8



#20
Methylene Chloride
Concen: 2.682 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058824.D
Acq: 17 Oct 2019 14:02

Tgt Ion: 84 Resp: 11701
Ion Ratio Lower Upper
84 100
49 115.7 107.6 161.4
51 33.8 31.4 47.0
86 50.8 50.3 75.5





#25

2-Butanone

Concen: 0.683 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.02 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

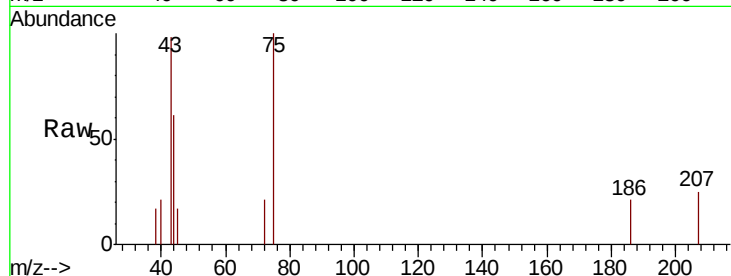
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2061

Ion Ratio Lower Upper

43 100

72 21.7 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.83

800

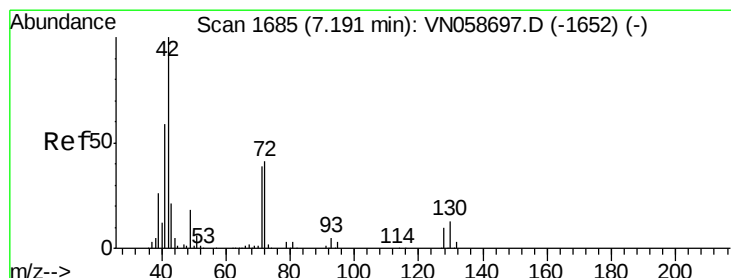
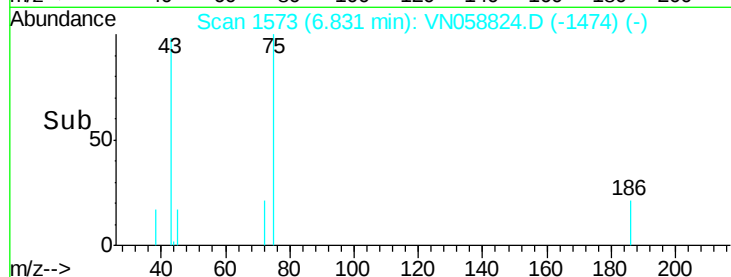
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 0.200 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

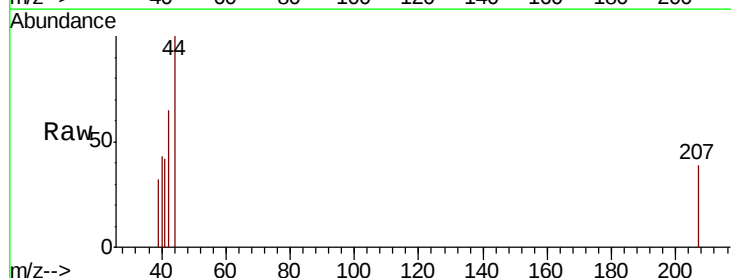
Tgt Ion: 42 Resp: 391

Ion Ratio Lower Upper

42 100

72 7.4 32.8 49.2#

71 35.0 31.1 46.7



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

500

400

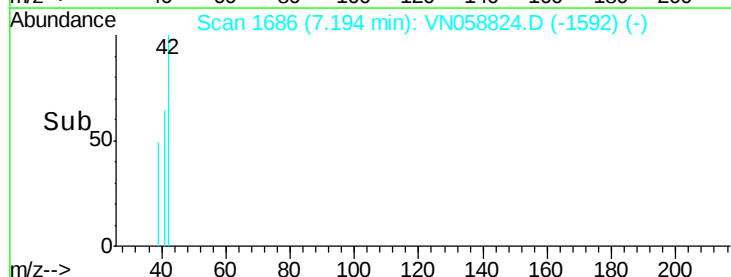
300

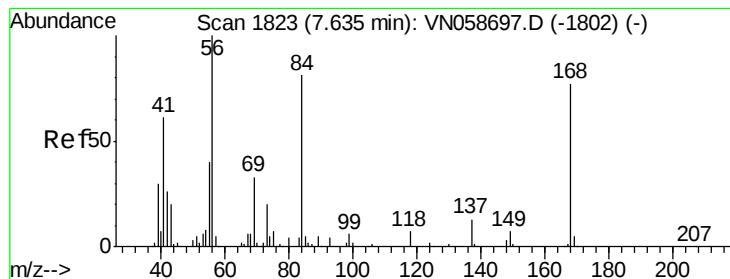
200

100

0

Time-->





#31

Cyclohexane

Concen: 1.202 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

Instrument :
MSVOA_N
ClientSampled :

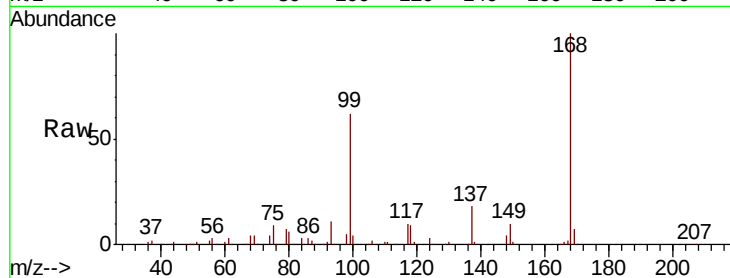
Tot Ion: 56 Resp: 8888

Ion Ratio Lower Upper

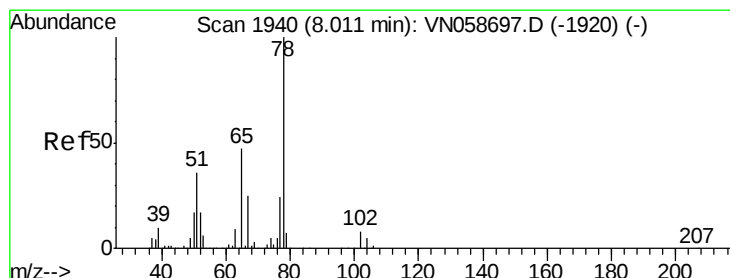
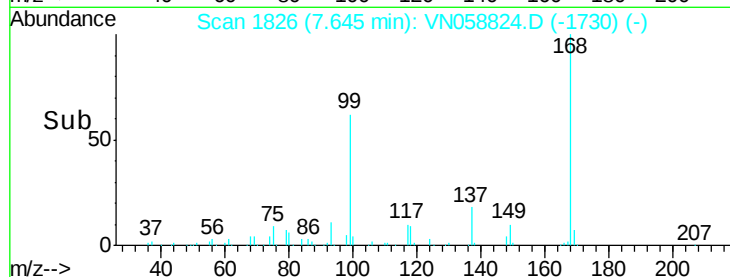
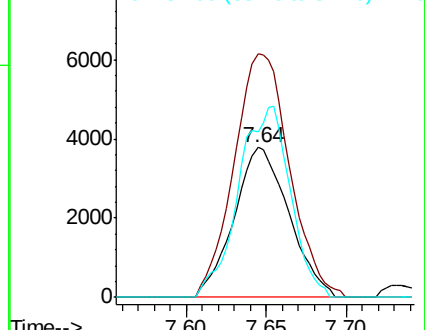
56 100

69 162.3 26.2 39.4#

84 110.1 64.9 97.3#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 52.365 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058824.D

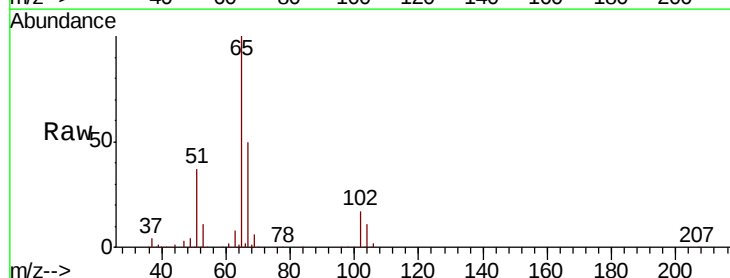
Acq: 17 Oct 2019 14:02

Tgt Ion: 65 Resp: 264088

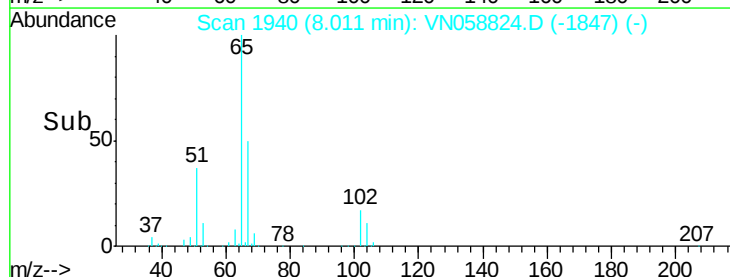
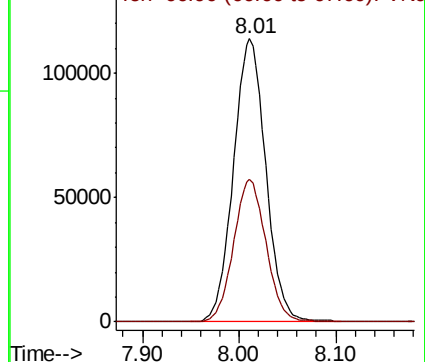
Ion Ratio Lower Upper

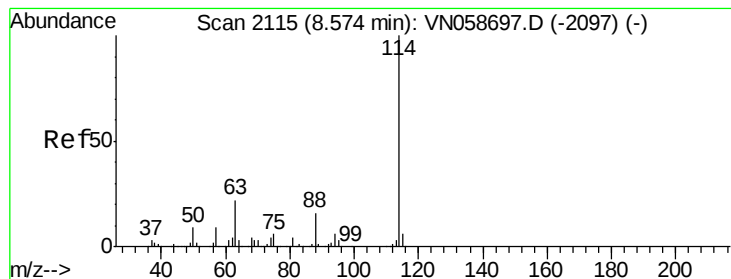
65 100

67 50.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

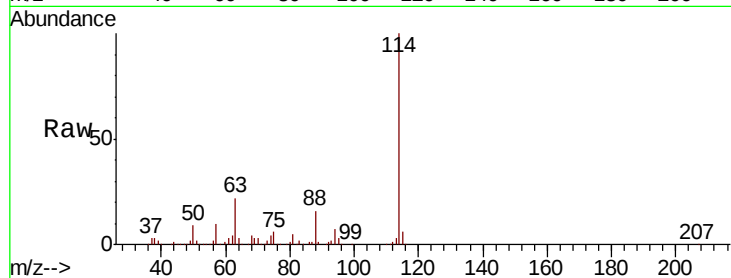
Tot Ion:114 Resp: 575247

Ion Ratio Lower Upper

114 100

63 22.5 0.0 43.8

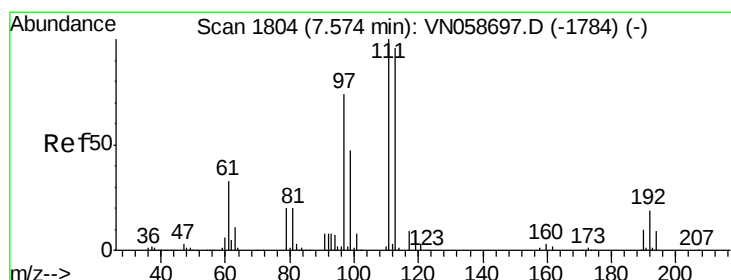
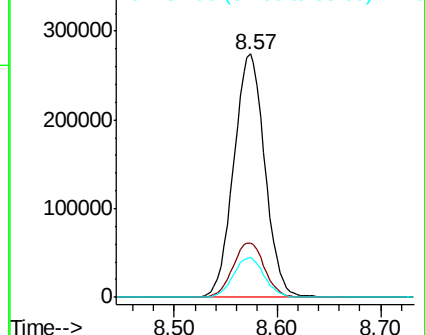
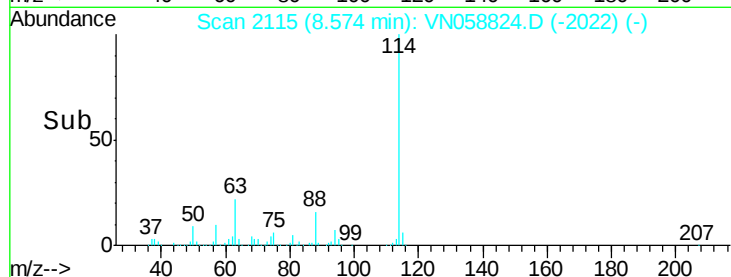
88 16.4 0.0 32.0



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: 52.813 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

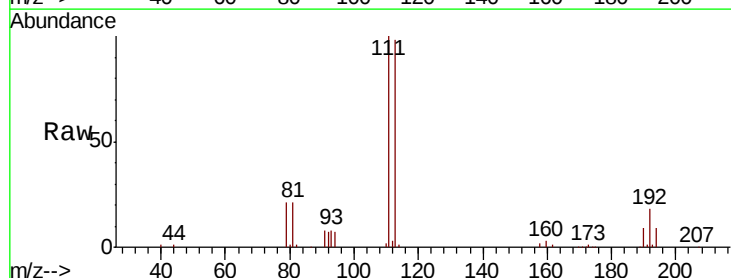
Tgt Ion:113 Resp: 187654

Ion Ratio Lower Upper

113 100

111 102.5 82.3 123.5

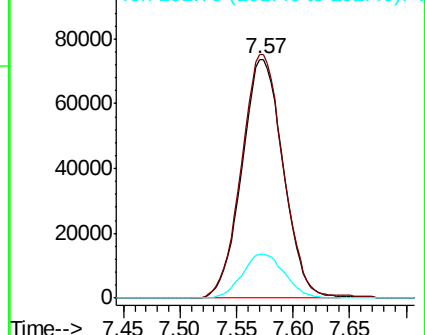
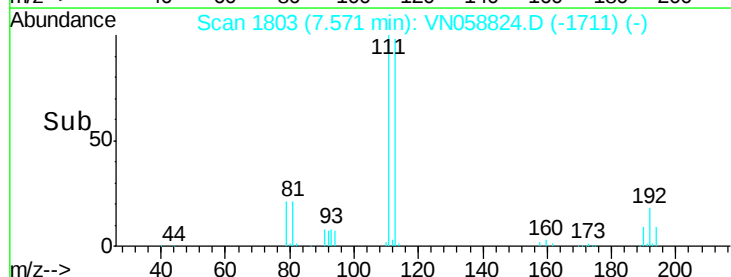
192 19.0 15.0 22.6

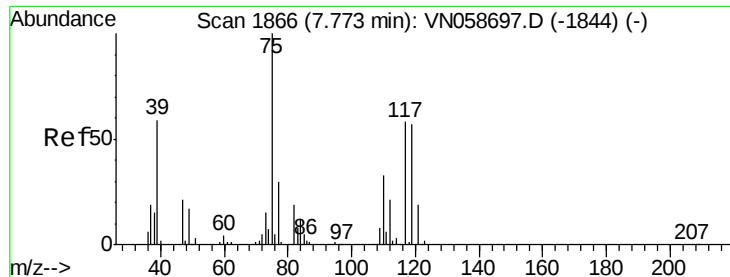


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

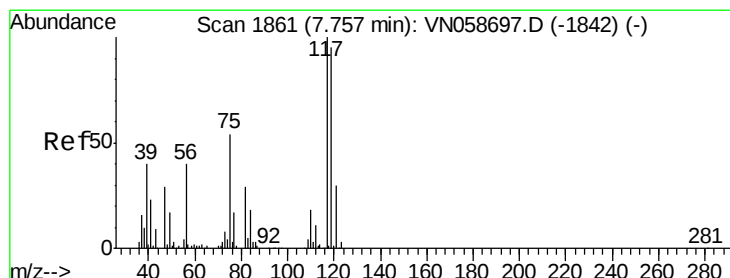
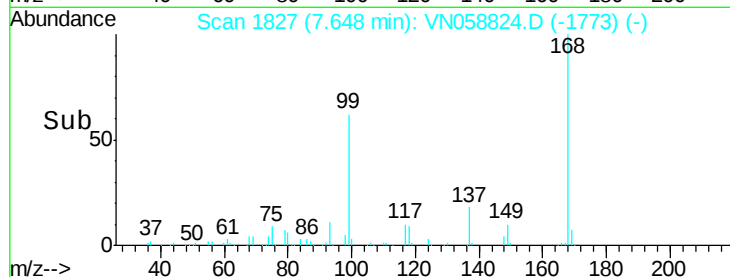
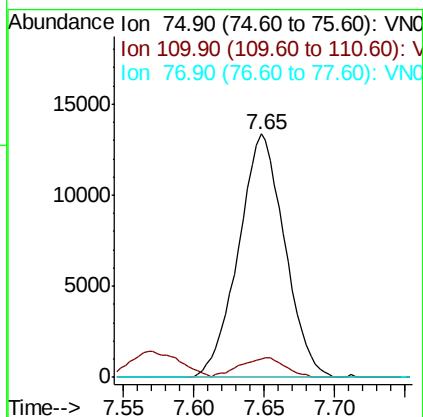
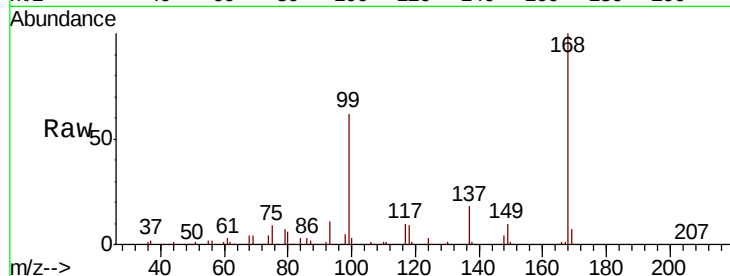




#36
 1,1-Dichloropropene
 Concen: 5.250 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058824.D
 Acq: 17 Oct 2019 14:02

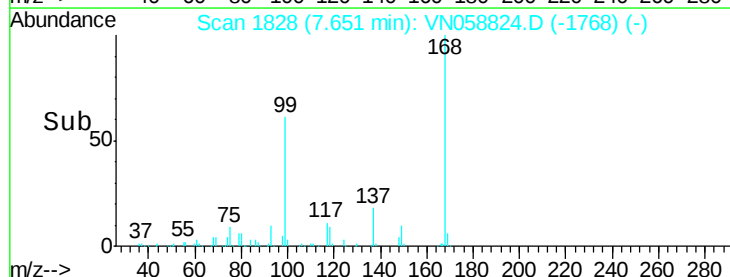
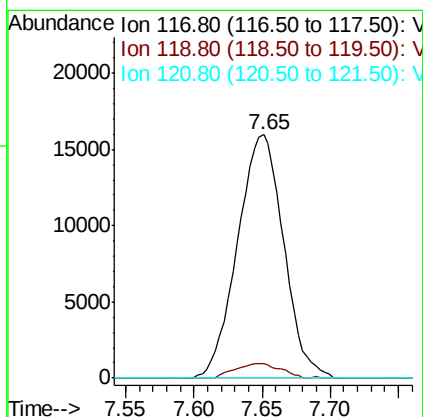
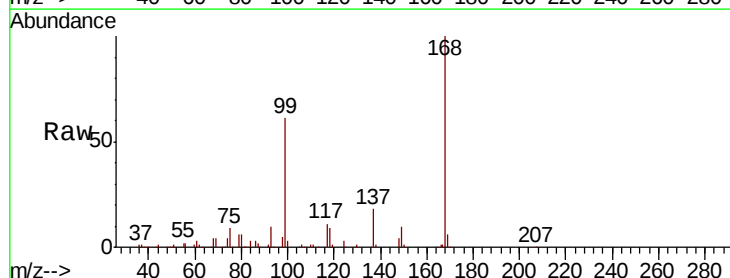
Instrument :
 MSVOA_N
 ClientSampleId :

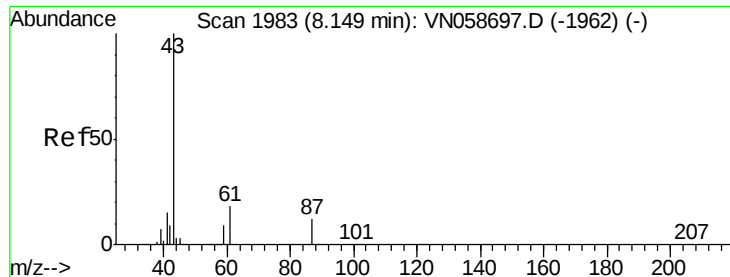
Tot Ion	75	Resp	30533
Ion Ratio	100	Lower	Upper
75	100		
110	7.8	16.6	49.8#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 6.615 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058824.D
 Acq: 17 Oct 2019 14:02

Tgt Ion	117	Resp	37495
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	6.0	75.7	113.5#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 9.124 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

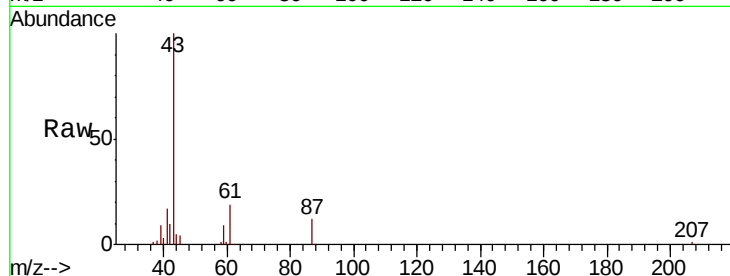
Tot Ion: 43 Resp: 91423

Ion Ratio Lower Upper

43 100

61 18.7 20.3 30.5#

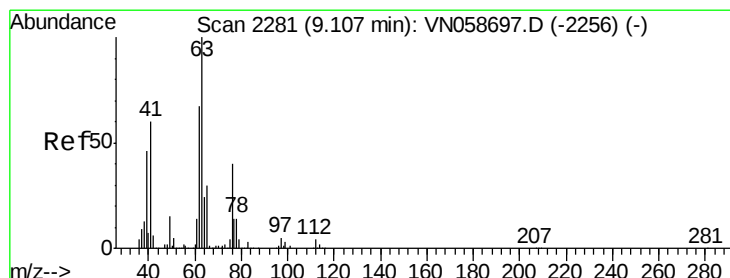
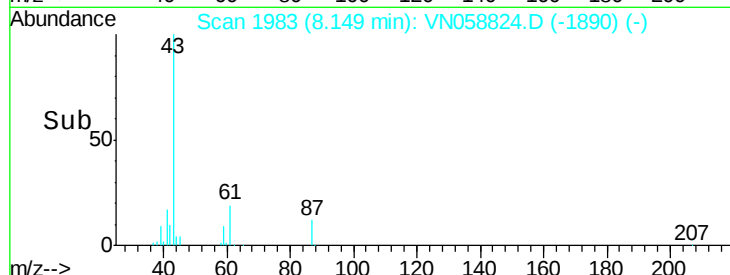
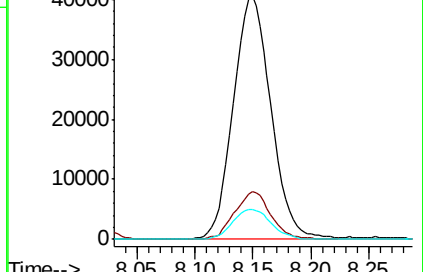
87 12.5 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN058824.D (-1890) (-)

Ion 61.00 (60.70 to 61.70): VN058824.D (-1890) (-)

Ion 87.00 (86.70 to 87.70): VN058824.D (-1890) (-)



#45

1,2-Dichloropropane

Concen: 0.404 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN058824.D

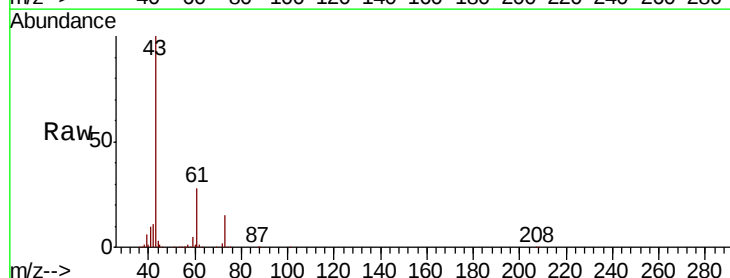
Acq: 17 Oct 2019 14:02

Tgt Ion: 63 Resp: 1808

Ion Ratio Lower Upper

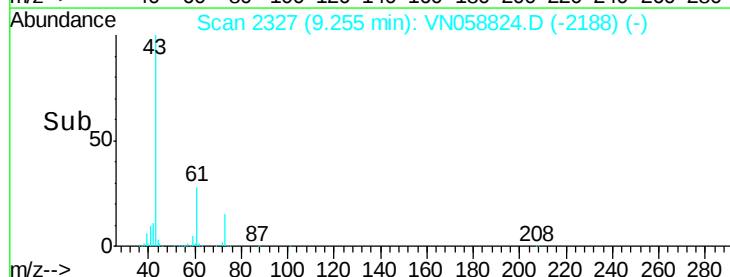
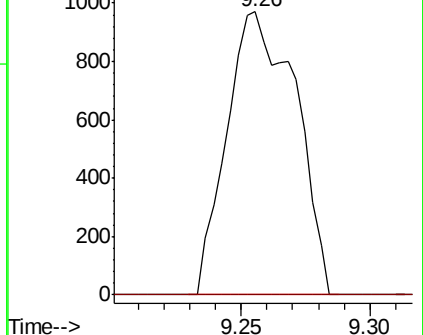
63 100

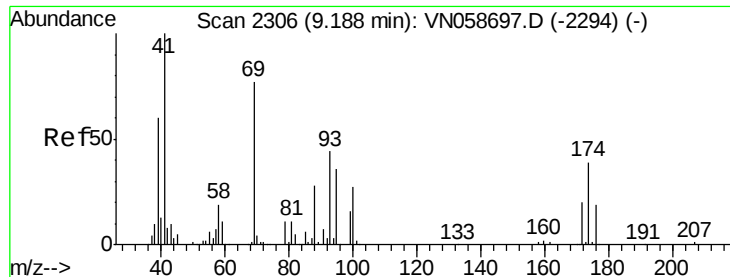
65 0.0 24.1 36.1#



Abundance Ion 62.90 (62.60 to 63.60): VN058824.D (-2188) (-)

Ion 64.90 (64.60 to 65.60): VN058824.D (-2188) (-)

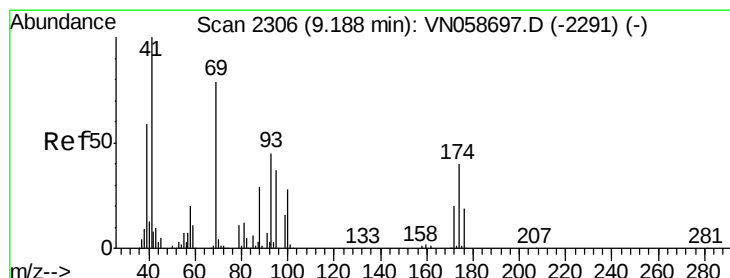
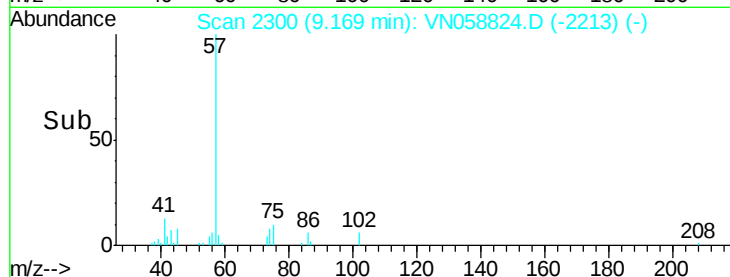
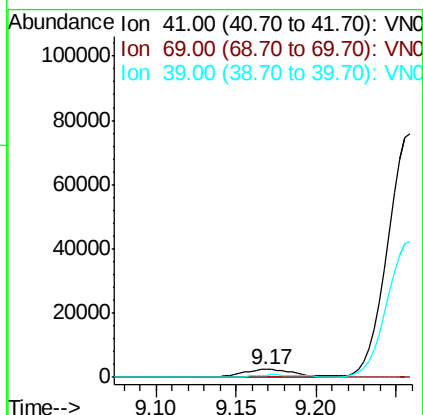
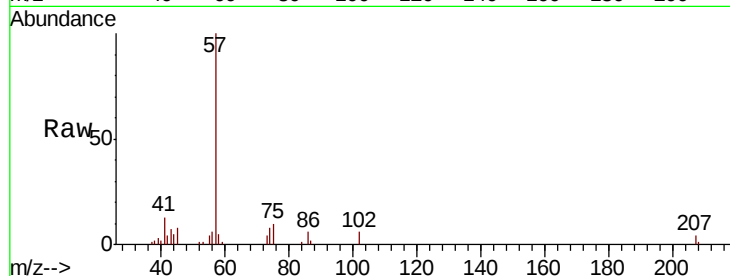




#48
Methvl methacrylate
Concen: 1.287 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.02 min
Lab File: VN058824.D
Acq: 17 Oct 2019 14:02

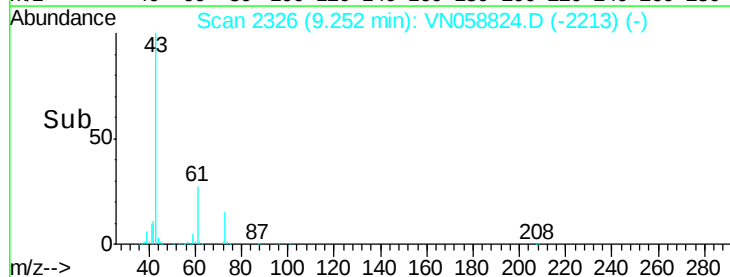
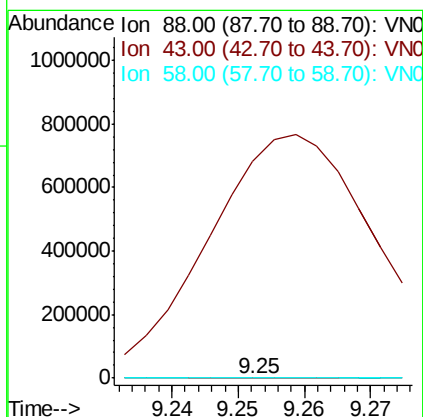
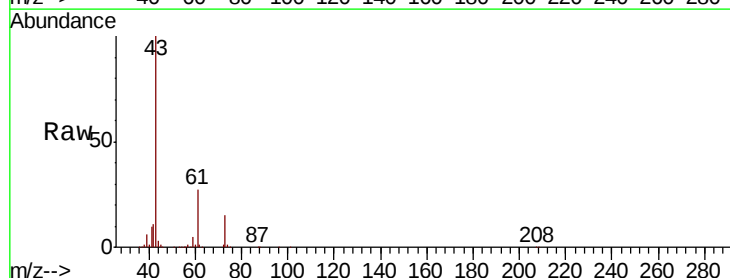
Instrument :
MSVOA_N
ClientSampled :

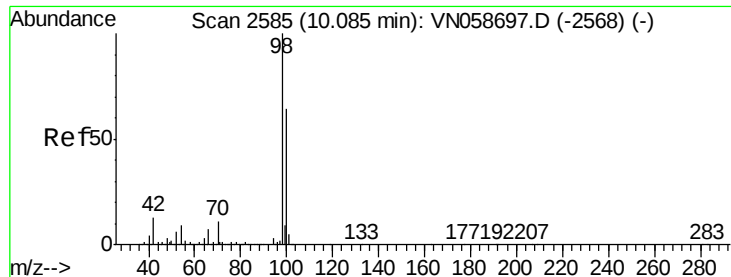
Tot Ion: 41 Resp: 5848
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.2#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 2.120 ug/l
RT: 9.25 min Scan# 2326
Delta R.T. 0.06 min
Lab File: VN058824.D
Acq: 17 Oct 2019 14:02

Tgt Ion: 88 Resp: 149
Ion Ratio Lower Upper
88 100
43 943959.7 28.6 43.0#
58 4365.8 57.2 85.8#





#50

Toluene-d8

Concen: 52.194 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

Instrument :

MSVOA_N

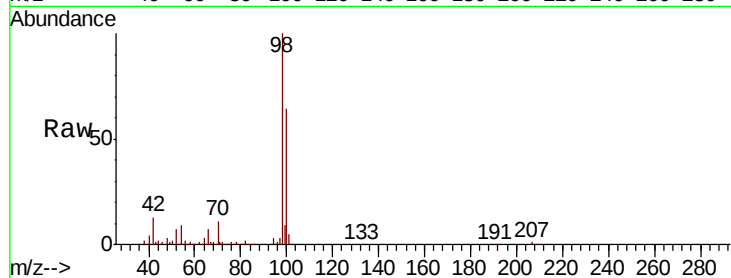
ClientSampled :

Tot Ion: 98 Resp: 741612

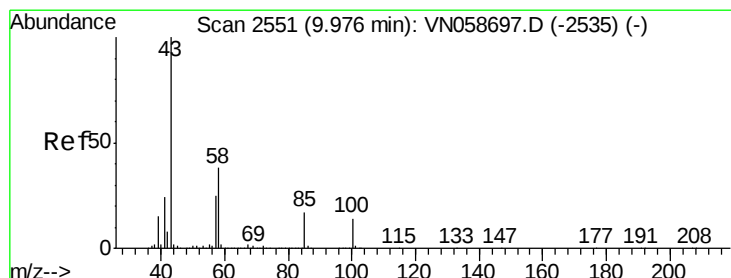
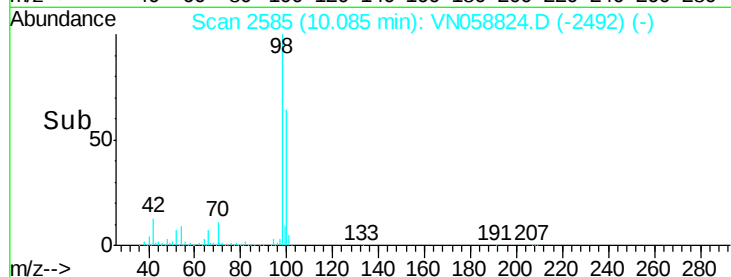
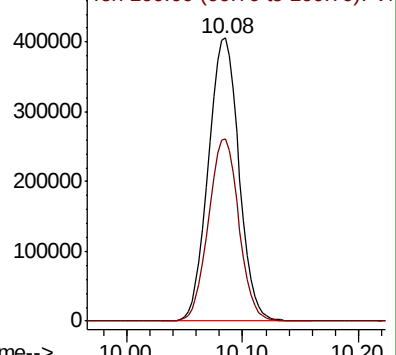
Ion Ratio Lower Upper

98 100

100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN058697.D (-2568) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.321 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058824.D

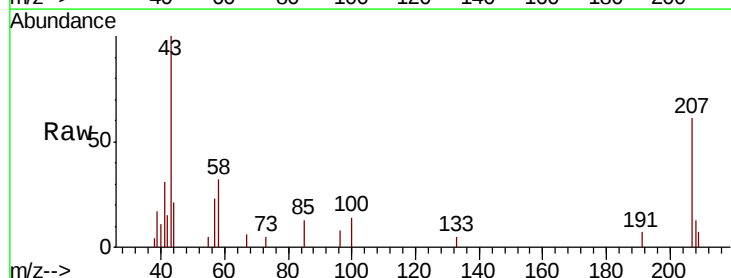
Acq: 17 Oct 2019 14:02

Tgt Ion: 43 Resp: 7436

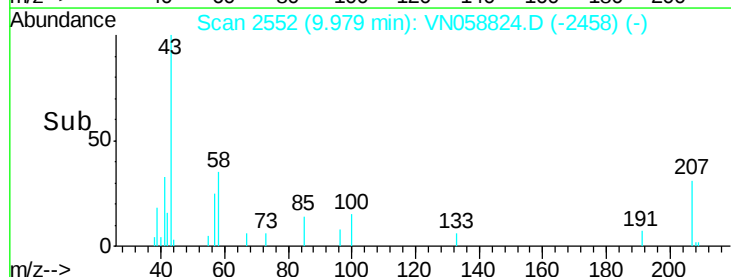
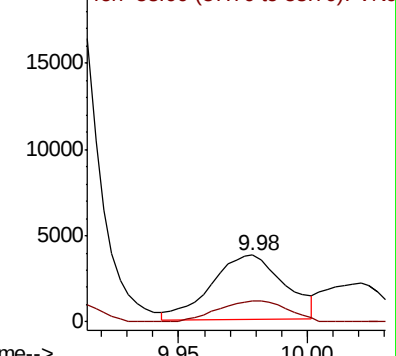
Ion Ratio Lower Upper

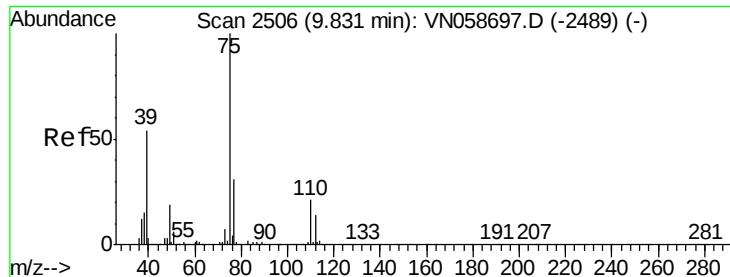
43 100

58 30.8 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-2535) (-)



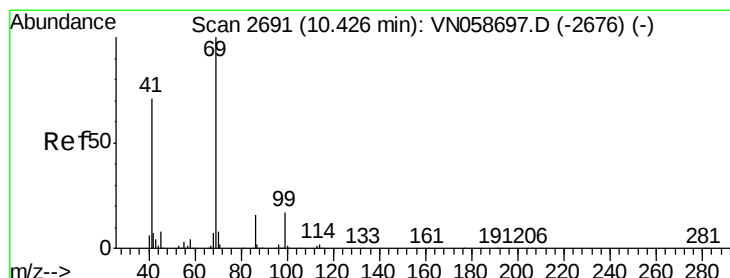
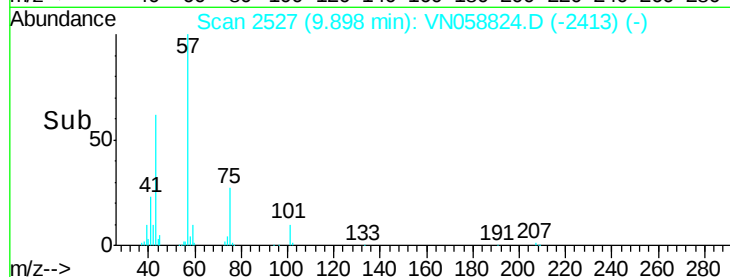
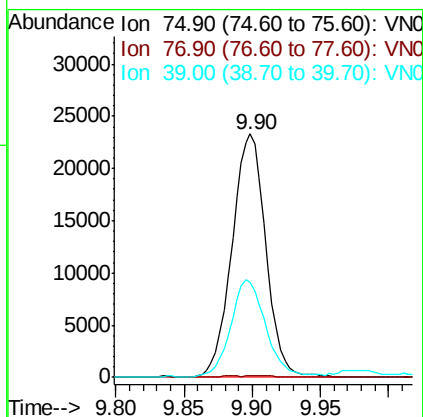
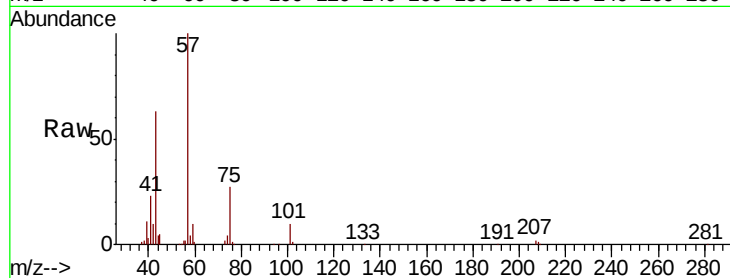


#54

cis-1,3-Dichloropropene
 Concen: 5.701 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.07 min
 Lab File: VN058824.D
 Acq: 17 Oct 2019 14:02

Instrument :
 MSVOA_N
 ClientSampleId :

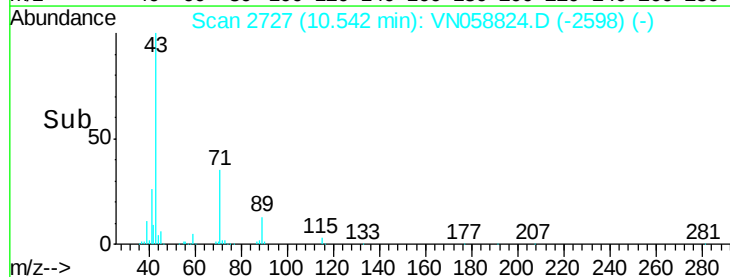
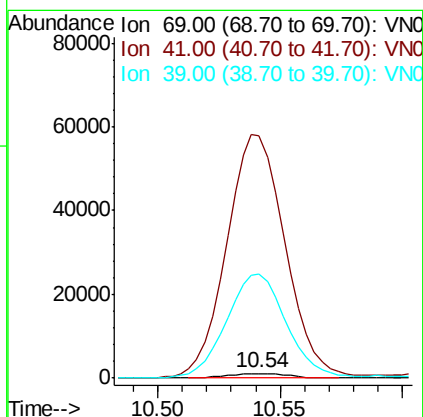
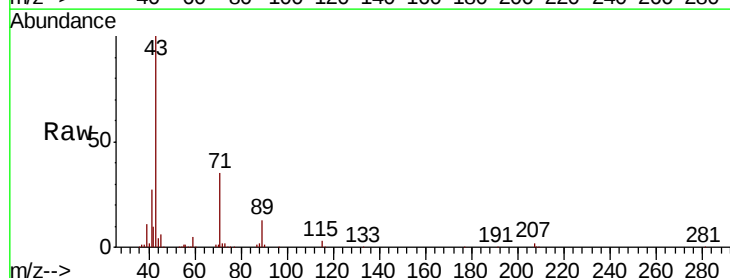
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.8	24.4	36.6#
39	39.1	43.1	64.7#

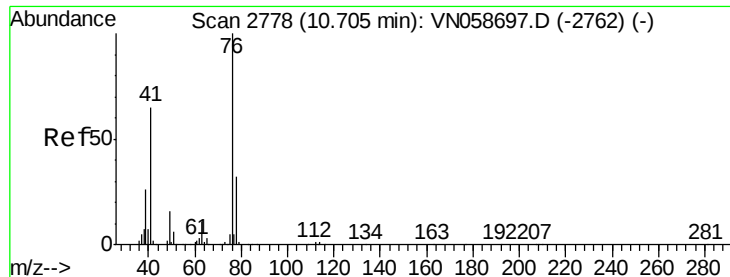


#56

Ethyl methacrylate
 Concen: 0.322 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.12 min
 Lab File: VN058824.D
 Acq: 17 Oct 2019 14:02

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4962.1	56.8	85.2#
39	2160.9	32.5	48.7#





#57

1,3-Dichloropropane

Concen: 0.866 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

Instrument :

MSVOA_N

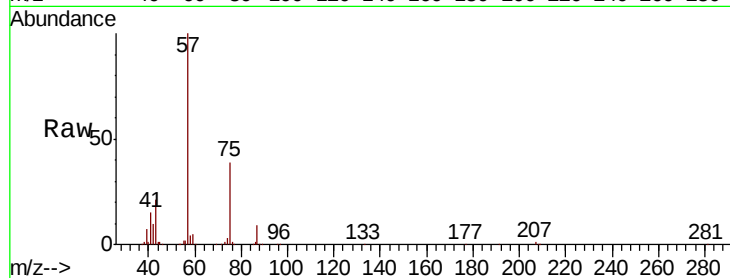
ClientSampleId :

Tot Ion: 76 Resp: 6169

Ion Ratio Lower Upper

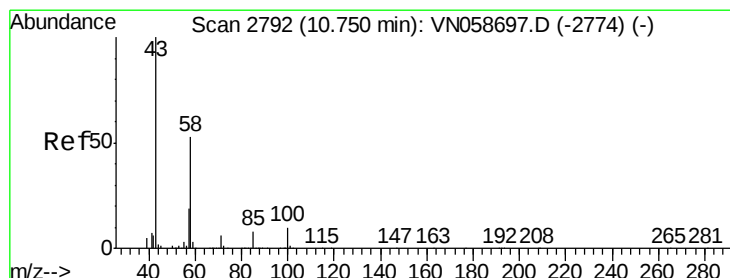
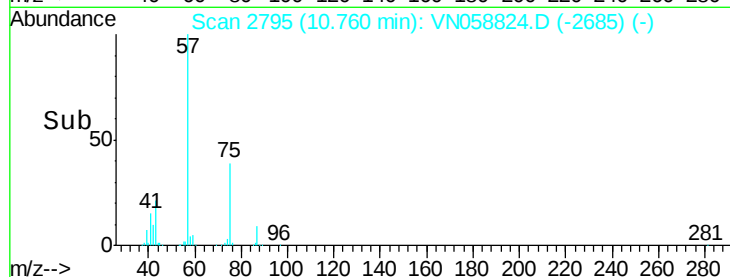
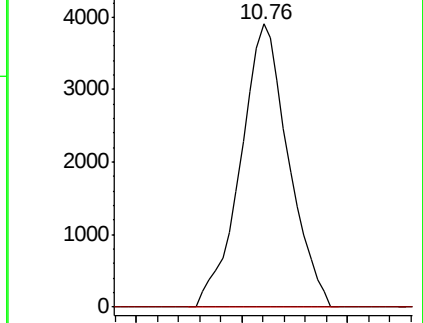
76 100

78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 23.552 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058824.D

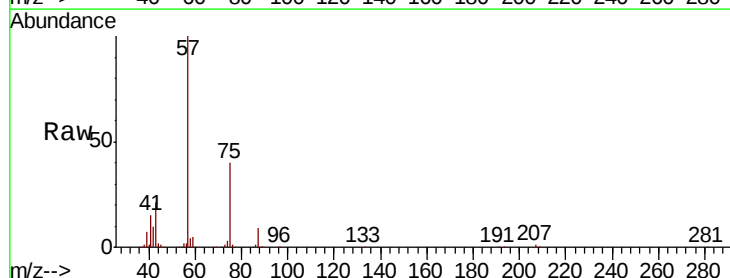
Acq: 17 Oct 2019 14:02

Tgt Ion: 43 Resp: 102428

Ion Ratio Lower Upper

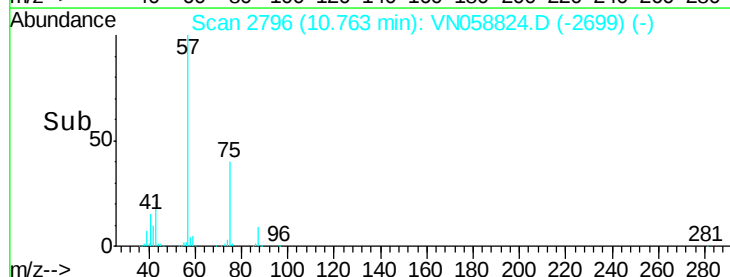
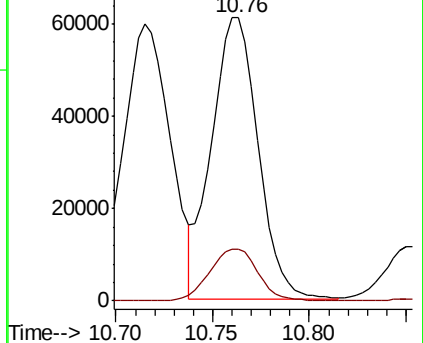
43 100

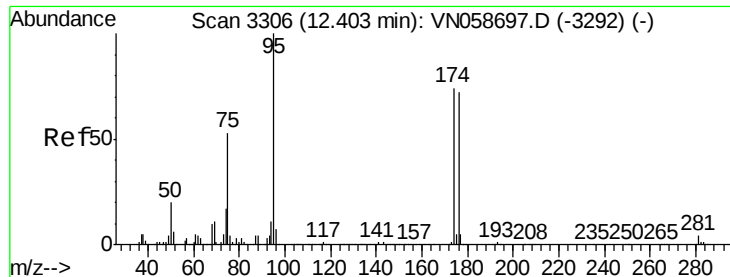
58 19.1 26.1 78.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 44.781 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

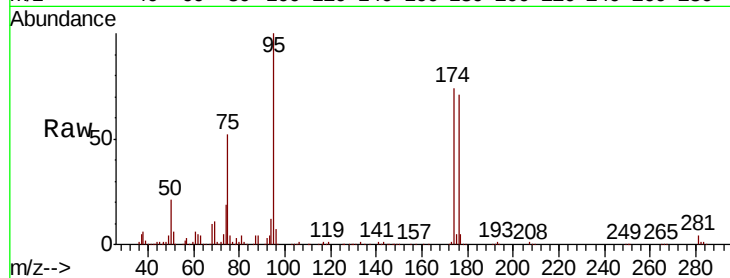
Tot Ion: 95 Resp: 240848

Ion Ratio Lower Upper

95 100

174 75.2 0.0 150.4

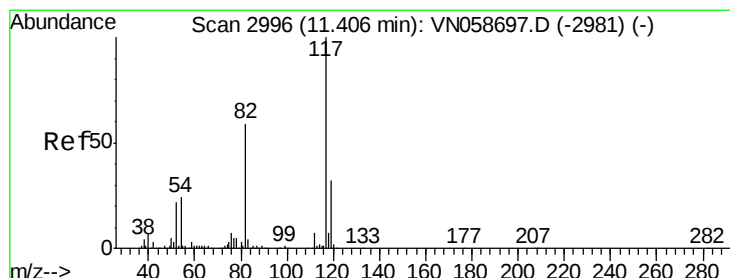
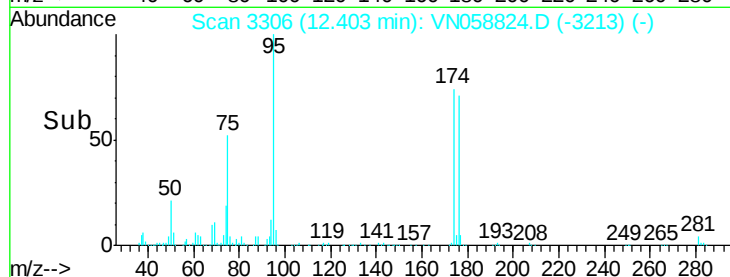
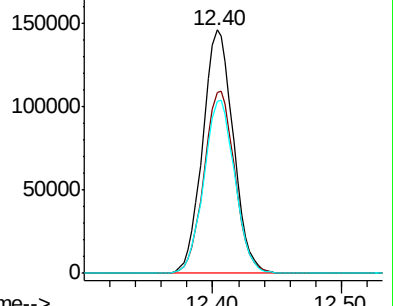
176 72.3 0.0 146.8



Abundance Ion 94.90 (94.60 to 95.60): VN058697.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058697.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058697.D (-3292) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

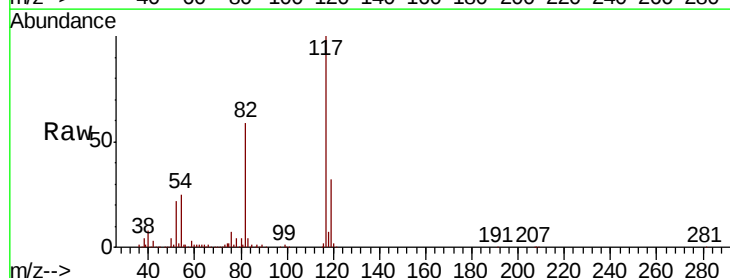
Tgt Ion: 117 Resp: 533212

Ion Ratio Lower Upper

117 100

82 58.6 47.0 70.4

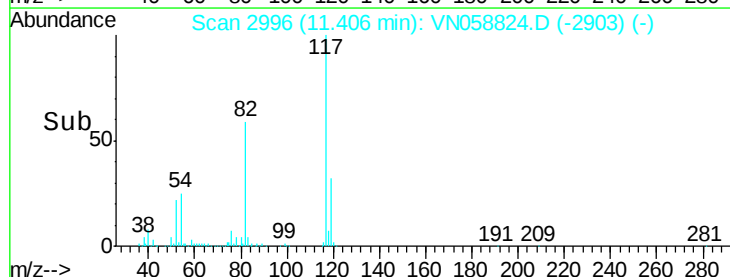
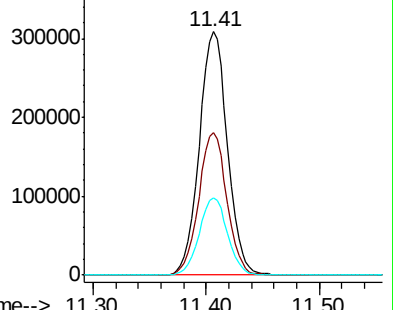
119 31.9 25.4 38.2

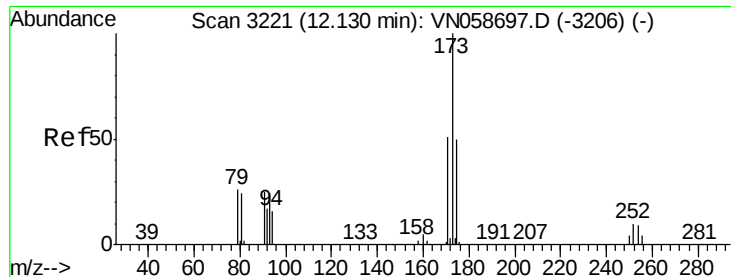


Abundance Ion 116.90 (116.60 to 117.60): VN058697.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058697.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058697.D (-2981) (-)





#71

Bromoform

Concen: 0.424 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

Instrument :

MSVOA_N

ClientSampled :

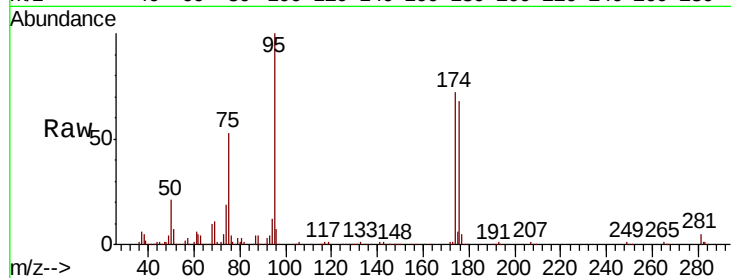
Tot Ion:173 Resp: 1245

Ion Ratio Lower Upper

173 100

175 946.5 24.6 73.8#

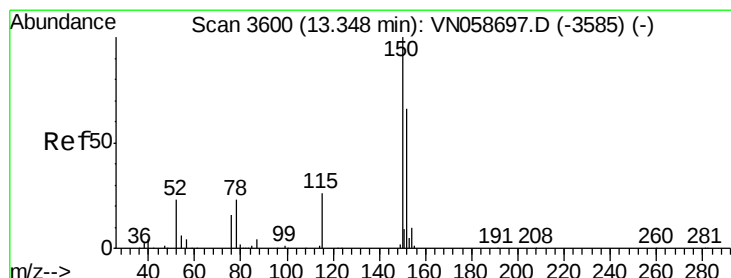
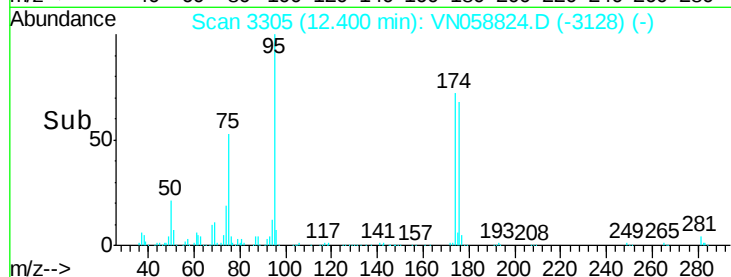
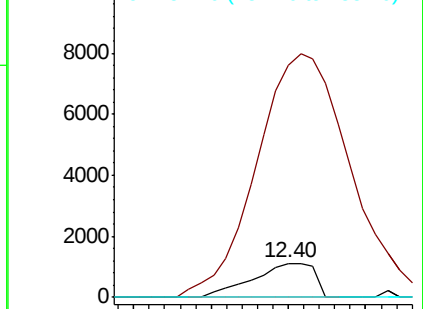
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

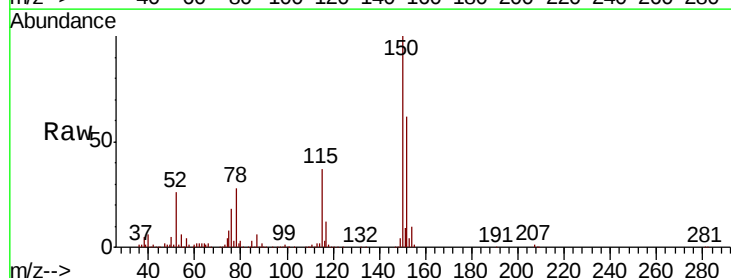
Tgt Ion:152 Resp: 200758

Ion Ratio Lower Upper

152 100

115 60.0 30.4 91.2

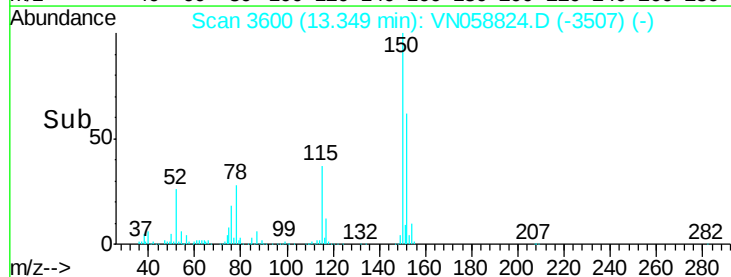
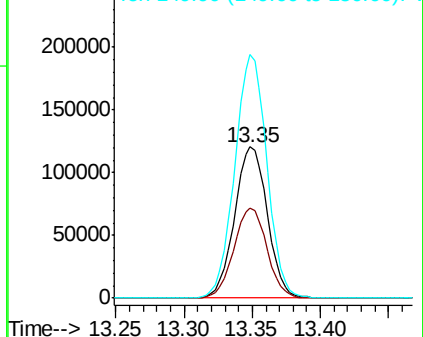
150 157.9 0.0 345.4

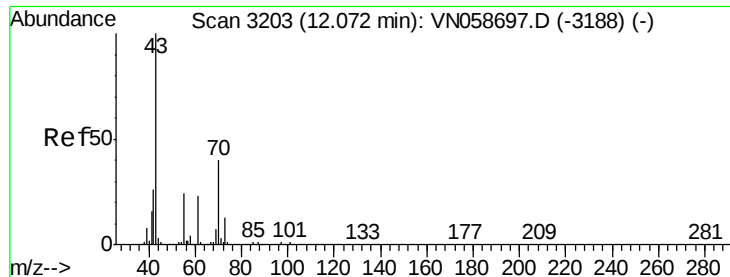


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.807 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 5268

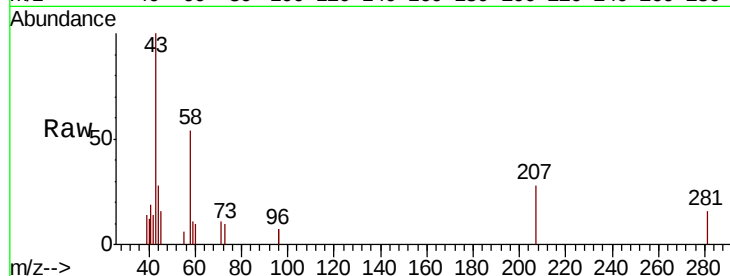
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 3.2 19.6 29.4#

61 0.0 18.6 28.0#

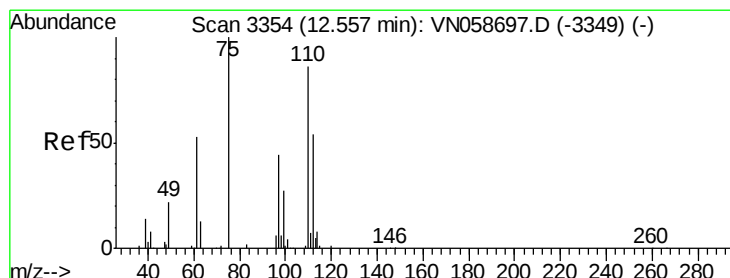
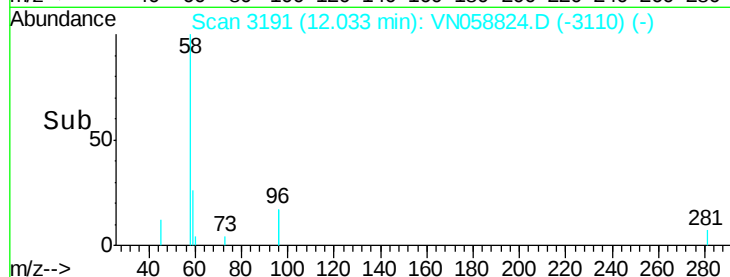
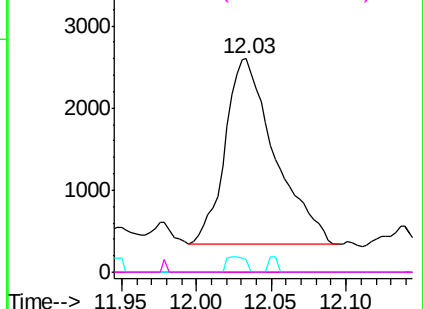


Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC



#76

1,2,3-Trichloropropane

Concen: 29.265 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058824.D

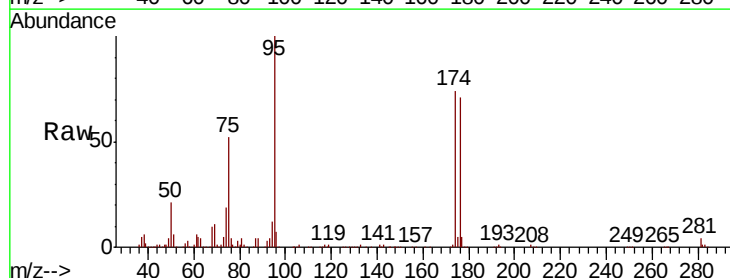
Acq: 17 Oct 2019 14:02

Tgt Ion: 75 Resp: 128888

Ion Ratio Lower Upper

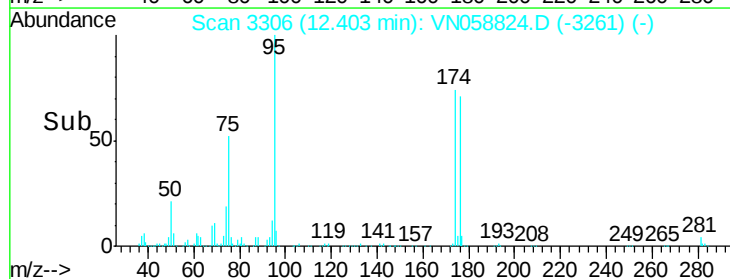
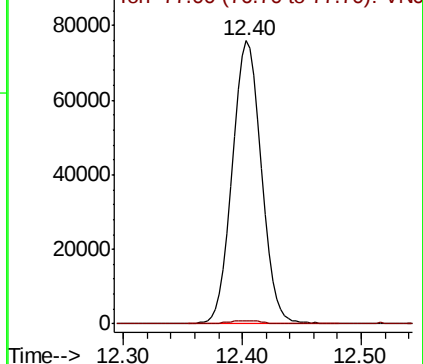
75 100

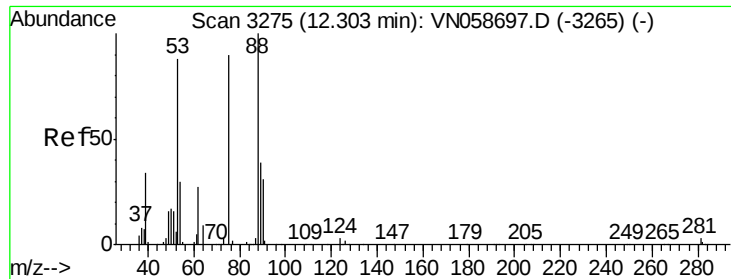
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#81

trans-1,4-Dichloro-2-butene

Concen: 78.392 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058824.D

Acq: 17 Oct 2019 14:02

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 128888

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.0 34.9 52.3#

