

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\
 Data File : VN058823.D
 Acq On : 17 Oct 2019 13:40
 Operator : JC/SP
 Sample : K5393-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 01:27:09 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	377562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	595110	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	544924	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	208404	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	270311	51.14	ug/l	0.00
Spiked Amount			Recovery	=	102.28%	
35) Dibromofluoromethane	7.57	113	194996	53.05	ug/l	0.00
Spiked Amount			Recovery	=	106.10%	
50) Toluene-d8	10.08	98	760613	51.74	ug/l	0.00
Spiked Amount			Recovery	=	103.48%	
62) 4-Bromofluorobenzene	12.40	95	245606	44.14	ug/l	0.00
Spiked Amount			Recovery	=	88.28%	

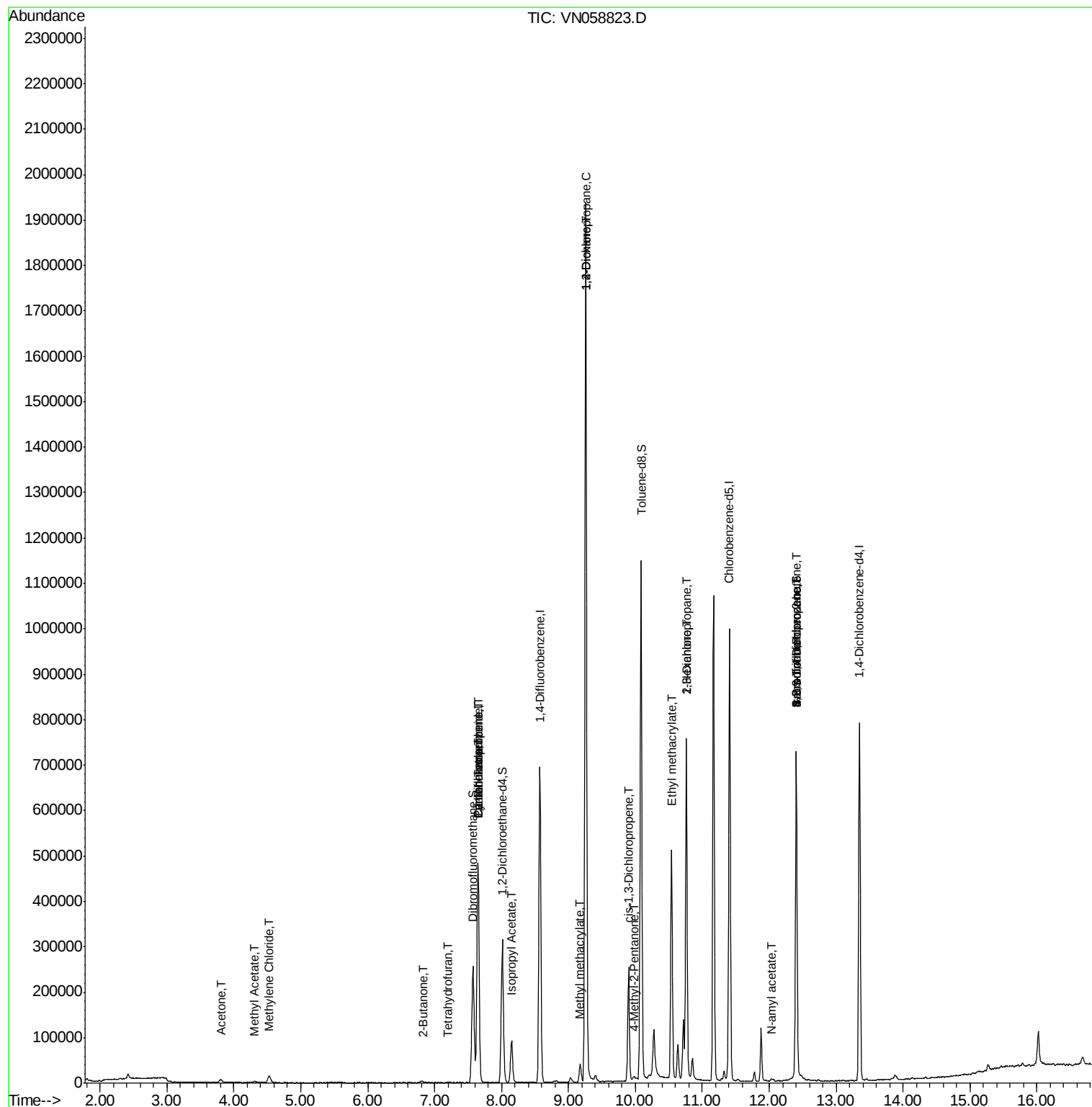
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	11864	5.422	ug/l	91
18) Methyl Acetate	4.31	43	4132	0.744	ug/l #	85
20) Methylene Chloride	4.53	84	11047	2.415	ug/l	93
25) 2-Butanone	6.83	43	2446	0.773	ug/l #	50
29) Tetrahydrofuran	7.20	42	944	0.462	ug/l #	47
31) Cyclohexane	7.65	56	9267	1.195	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	31834	5.291	ug/l #	51
38) Carbon Tetrachloride	7.65	117	36846	6.283	ug/l #	17
43) Isopropyl Acetate	8.15	43	109401	10.553	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	2432	0.526	ug/l #	45
48) Methyl methacrylate	9.17	41	6106	1.299	ug/l #	14
49) 1,4-Dioxane	9.26	88	62	0.853	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	6092	1.046	ug/l	92
54) cis-1,3-Dichloropropene	9.90	75	43389	5.966	ug/l #	67
56) Ethyl methacrylate	10.54	69	1998	0.316	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7891	1.070	ug/l #	42
59) 2-Hexanone	10.76	43	117282	26.067	ug/l #	51
71) Bromoform	12.40	173	1325	0.442	ug/l #	1
74) N-amyl acetate	12.03	43	4567	0.674	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	131248	28.708	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	131248	76.899	ug/l #	11

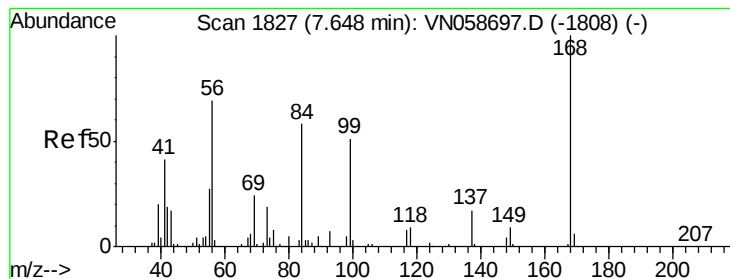
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058823.D

Acq: 17 Oct 2019 13:40

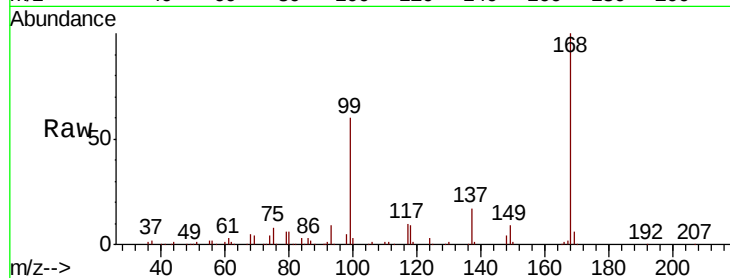
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 377562

Ion Ratio Lower Upper

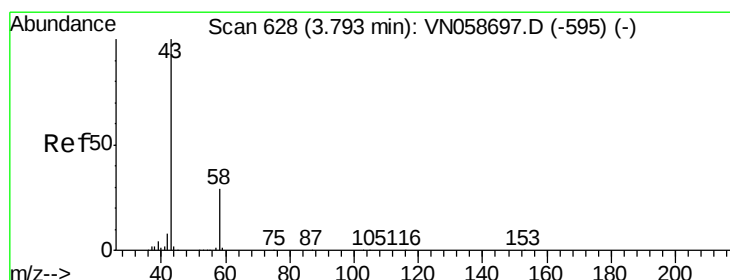
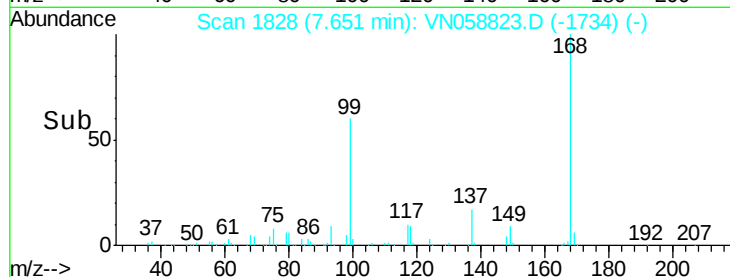
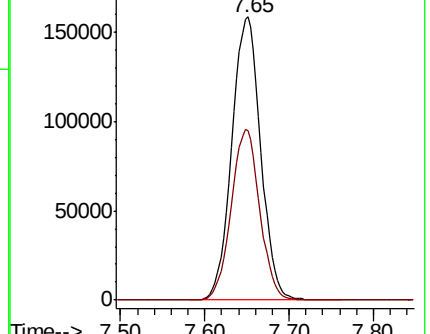
168 100

99 60.1 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 5.422 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058823.D

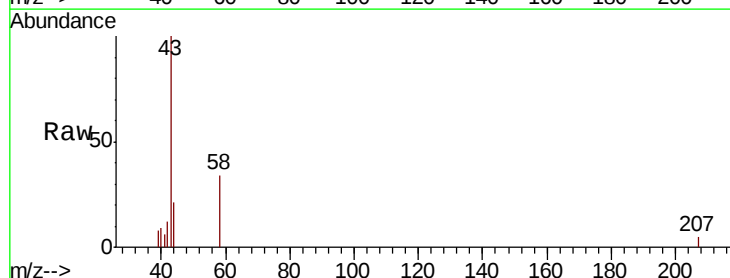
Acq: 17 Oct 2019 13:40

Tgt Ion: 43 Resp: 11864

Ion Ratio Lower Upper

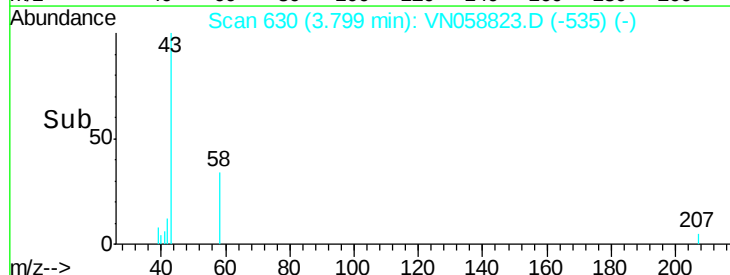
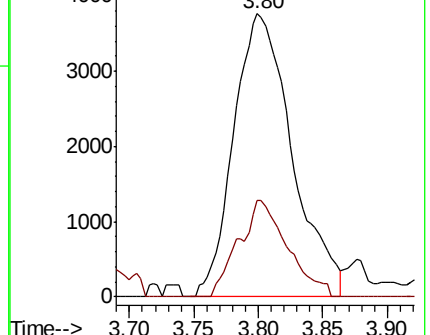
43 100

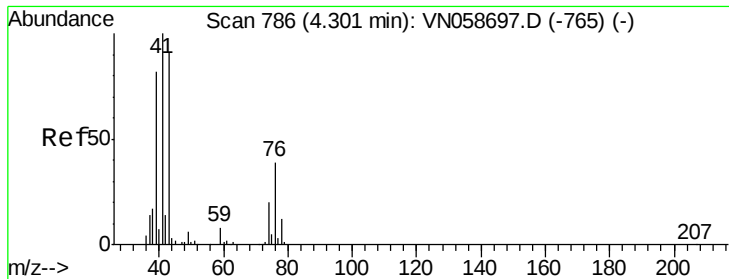
58 34.2 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

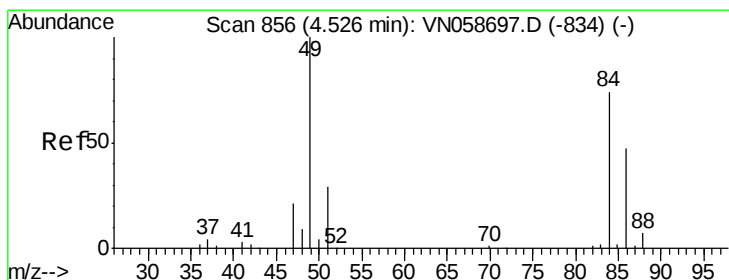
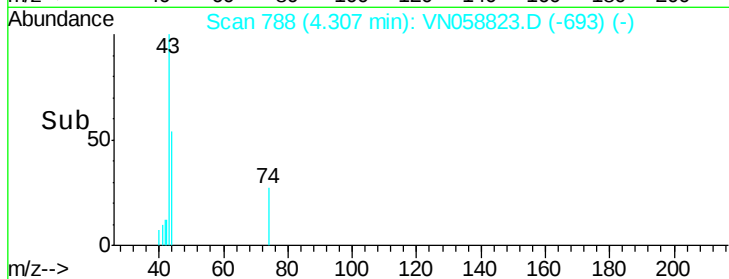
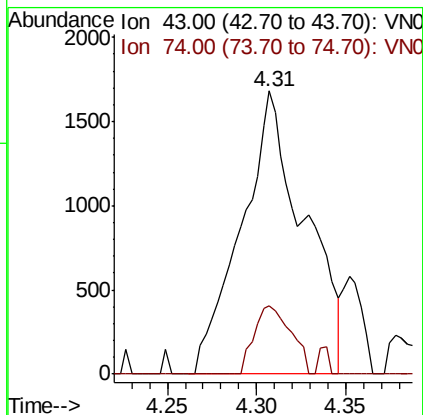
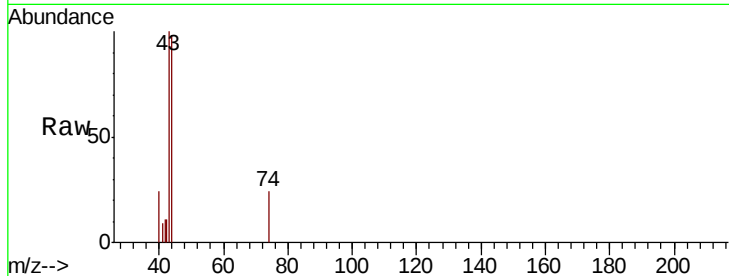




#18
Methyl Acetate
Concen: 0.744 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058823.D
Acq: 17 Oct 2019 13:40

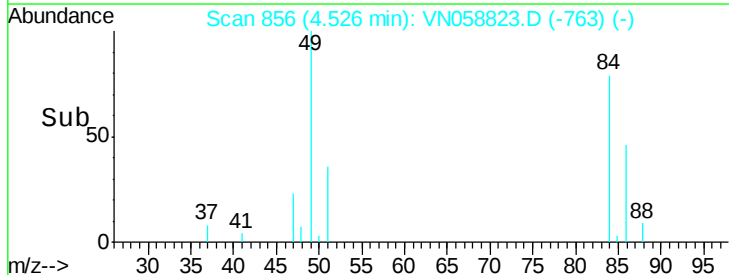
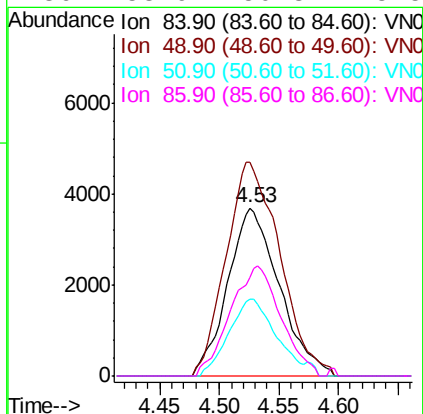
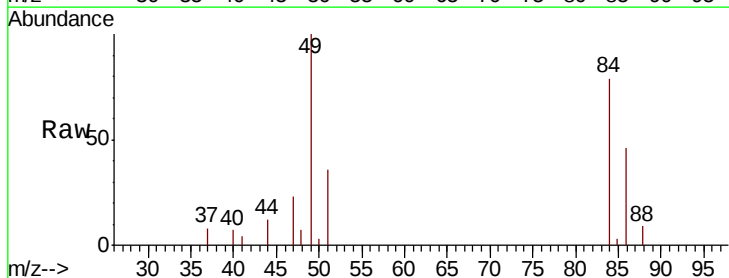
Instrument :
MSVOA_N
ClientSampled :

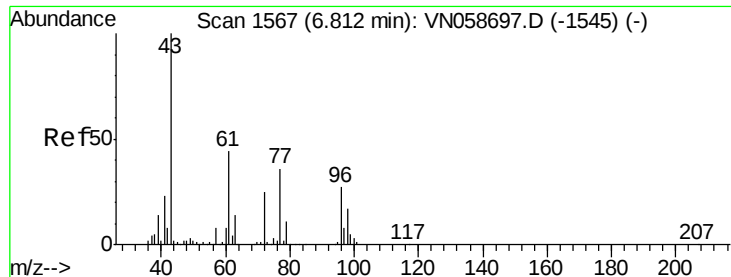
Tot Ion: 43 Resp: 4132
Ion Ratio Lower Upper
43 100
74 14.2 17.2 25.8#



#20
Methylene Chloride
Concen: 2.415 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN058823.D
Acq: 17 Oct 2019 13:40

Tgt Ion: 84 Resp: 11047
Ion Ratio Lower Upper
84 100
49 127.0 107.6 161.4
51 45.7 31.4 47.0
86 58.9 50.3 75.5

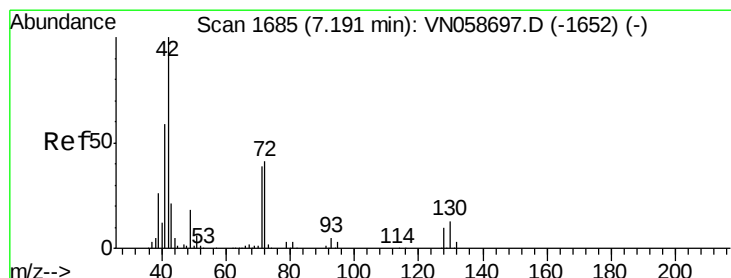
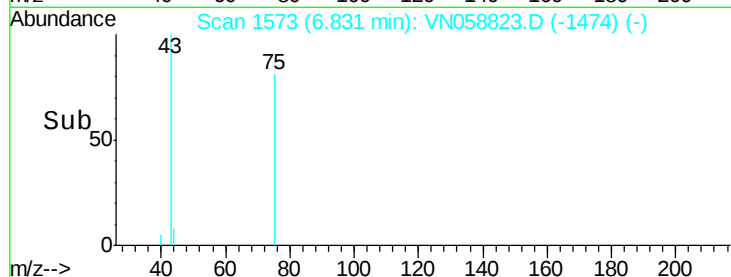
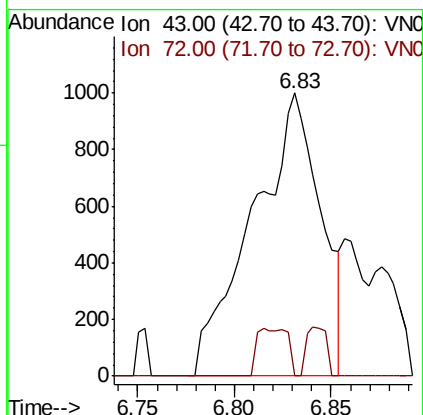
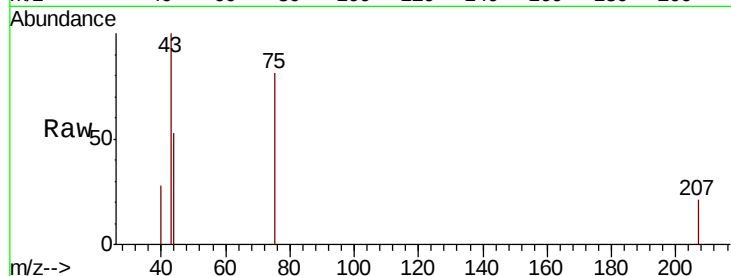




#25
2-Butanone
Concen: 0.773 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN058823.D
Acq: 17 Oct 2019 13:40

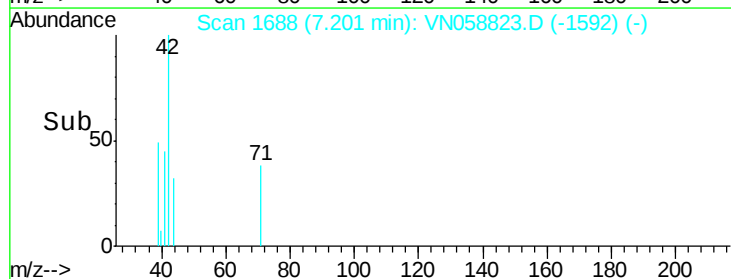
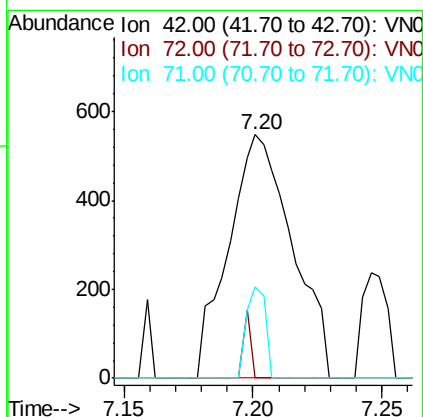
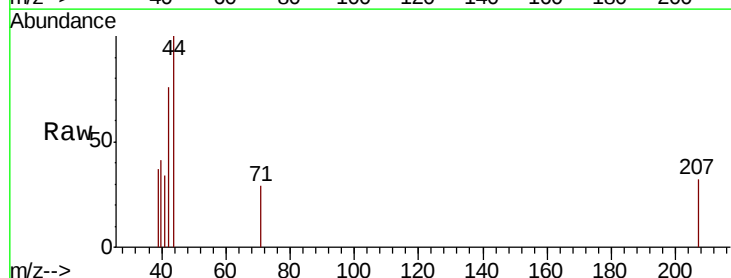
Instrument :
MSVOA_N
ClientSampled :

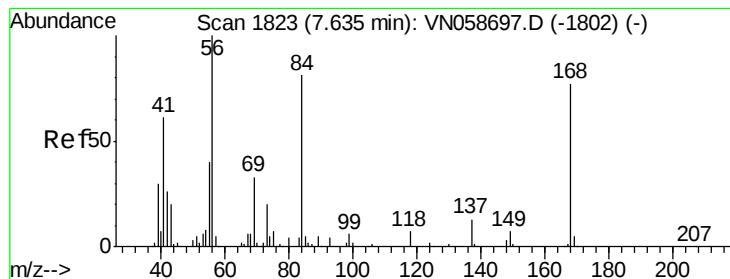
Tot Ion: 43 Resp: 2446
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#



#29
Tetrahydrofuran
Concen: 0.462 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN058823.D
Acq: 17 Oct 2019 13:40

Tgt Ion: 42 Resp: 944
Ion Ratio Lower Upper
42 100
72 3.2 32.8 49.2#
71 11.2 31.1 46.7#





#31

Cyclohexane

Concen: 1.195 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058823.D

Acq: 17 Oct 2019 13:40

Instrument :
MSVOA_N
ClientSampleId :

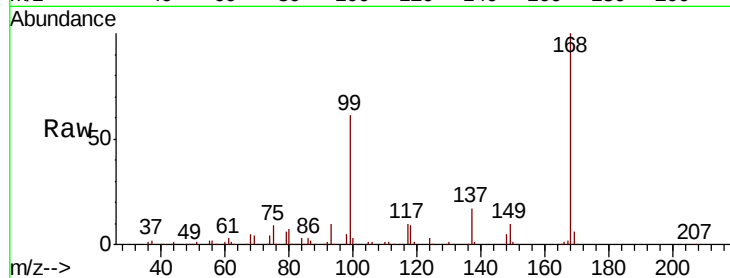
Tot Ion: 56 Resp: 9267

Ion Ratio Lower Upper

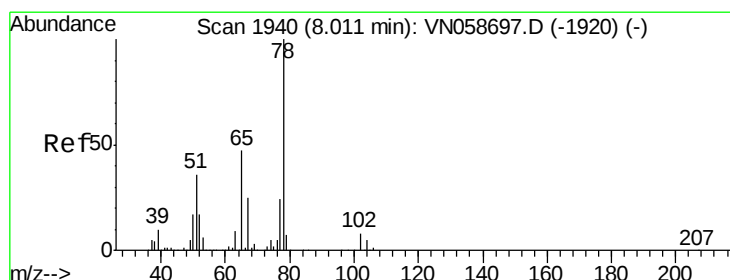
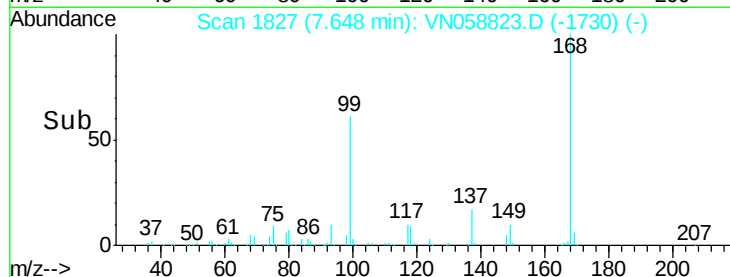
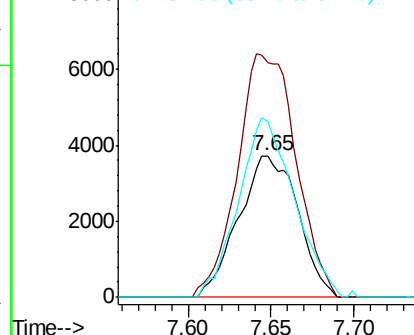
56 100

69 165.9 26.2 39.4#

84 123.7 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: 51.139 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058823.D

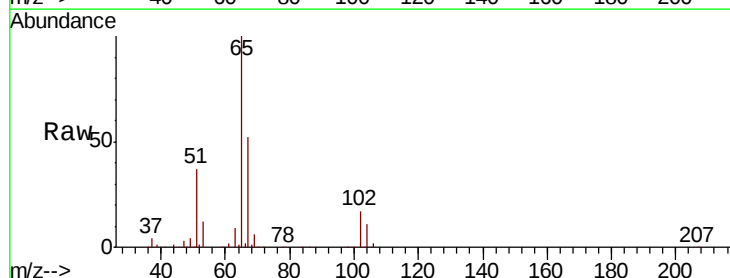
Acq: 17 Oct 2019 13:40

Tgt Ion: 65 Resp: 270311

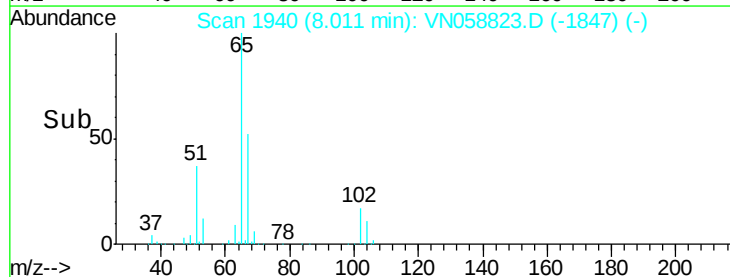
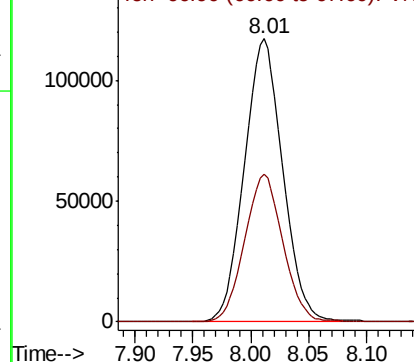
Ion Ratio Lower Upper

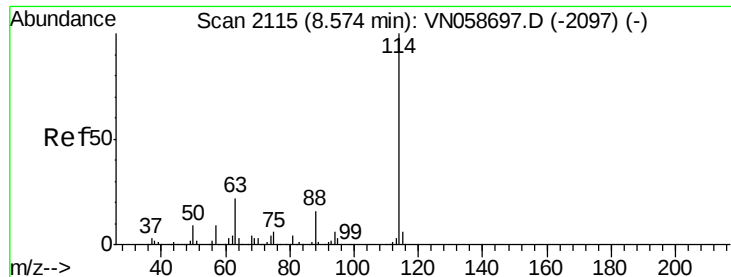
65 100

67 51.9 0.0 103.8



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

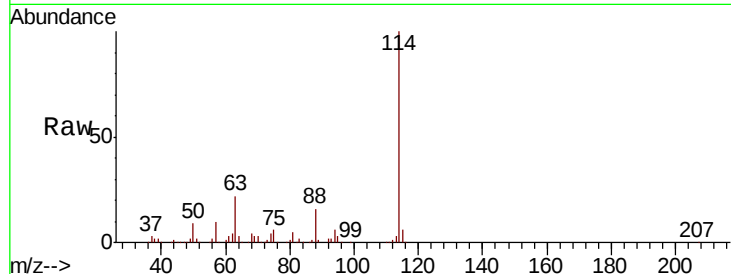




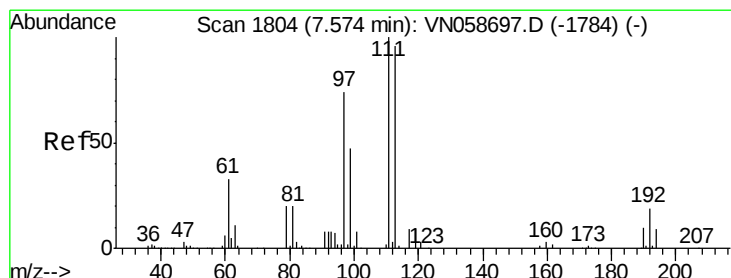
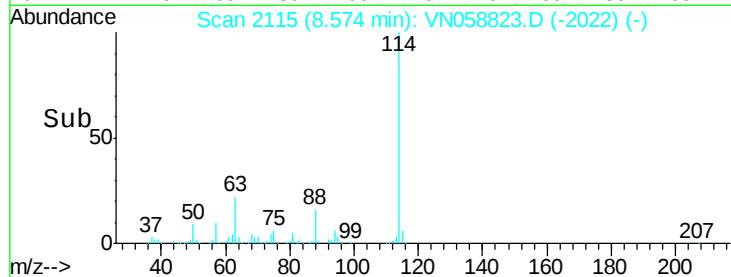
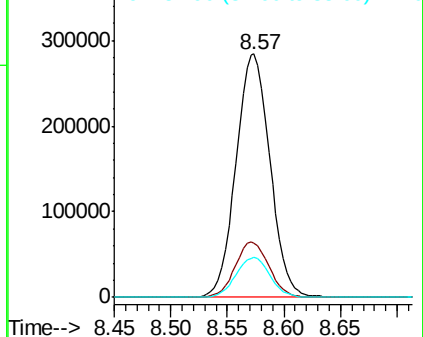
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. 0.00 min
Lab File: VN058823.D
Acq: 17 Oct 2019 13:40

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	43.8
88	16.3	0.0	32.0

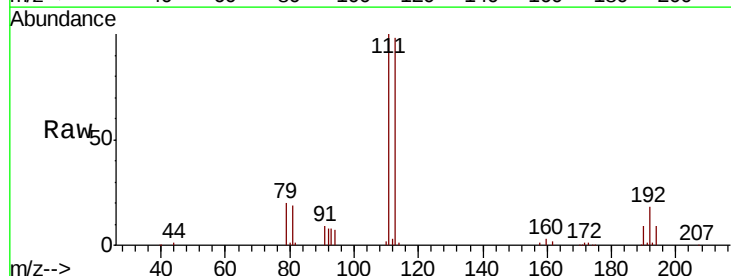


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

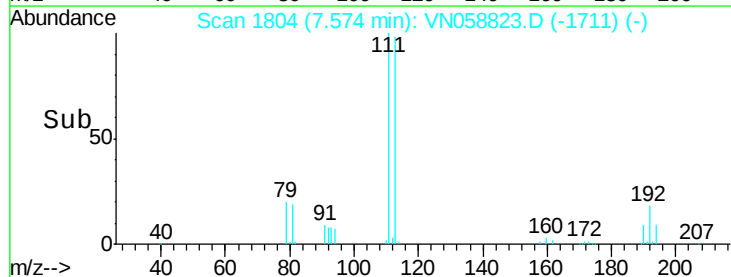
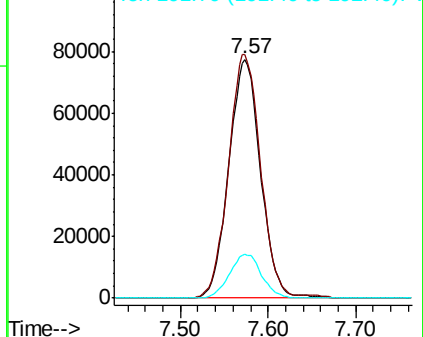


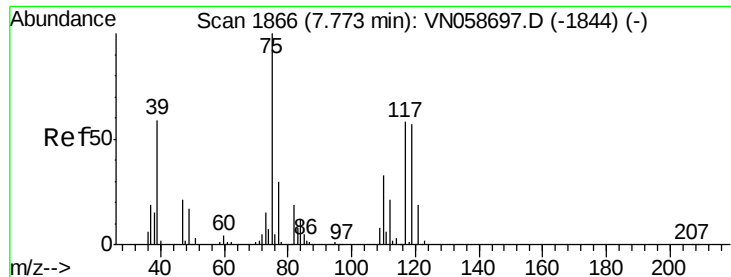
#35
Dibromofluoromethane
Concen: 53.048 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN058823.D
Acq: 17 Oct 2019 13:40

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.3	123.5
192	18.5	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

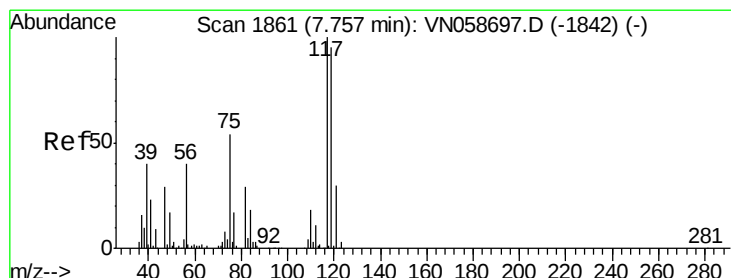
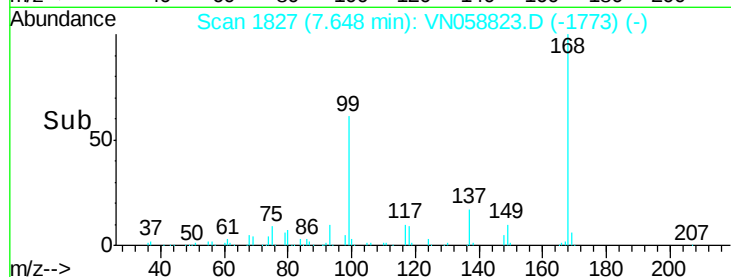
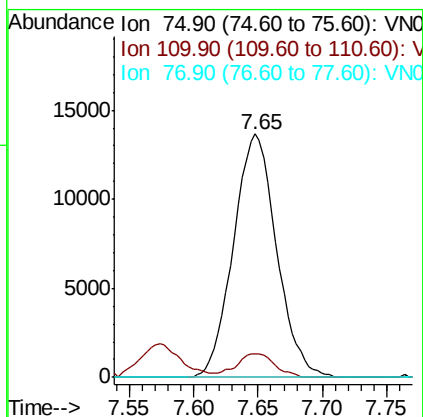
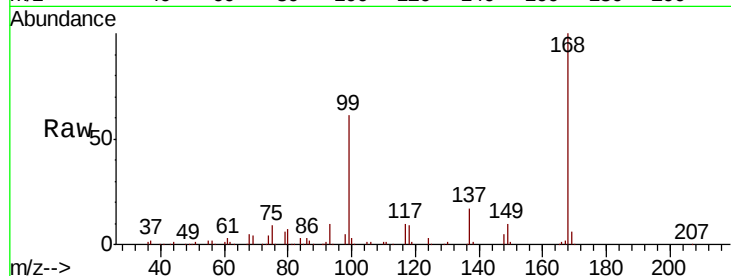




#36
 1,1-Dichloropropene
 Concen: 5.291 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058823.D
 Acq: 17 Oct 2019 13:40

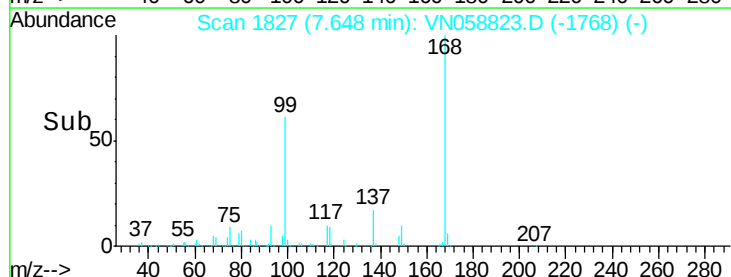
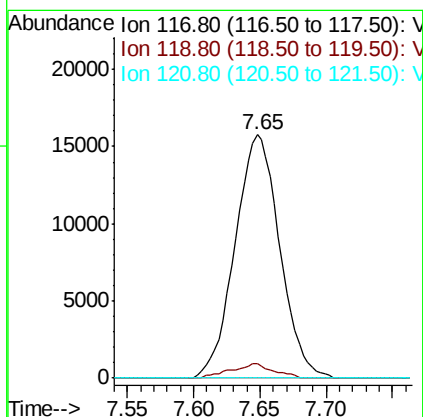
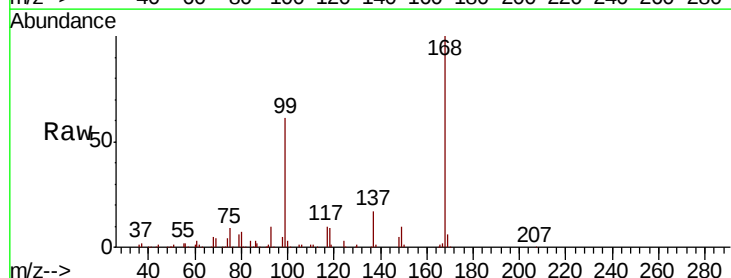
Instrument :
 MSVOA_N
 ClientSampleId :

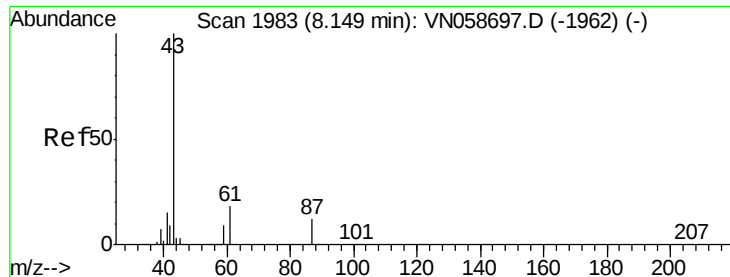
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.6	49.8#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 6.283 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058823.D
 Acq: 17 Oct 2019 13:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	75.7	113.5#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 10.553 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058823.D

Acq: 17 Oct 2019 13:40

Instrument :

MSVOA_N

ClientSampled :

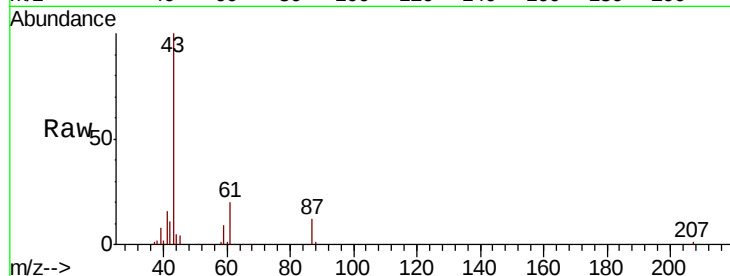
Tot Ion: 43 Resp: 109401

Ion Ratio Lower Upper

43 100

61 18.6 20.3 30.5#

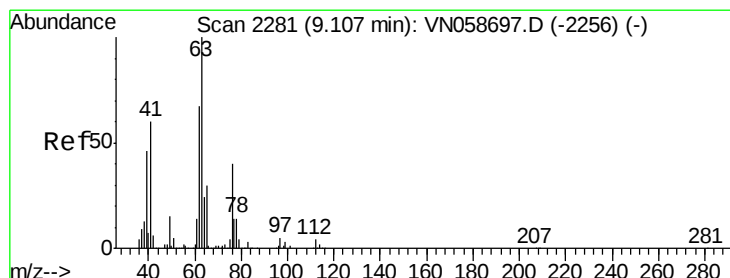
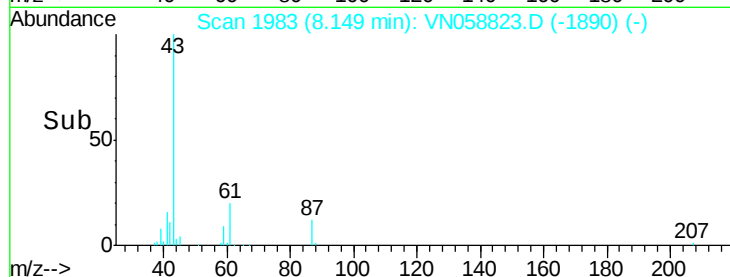
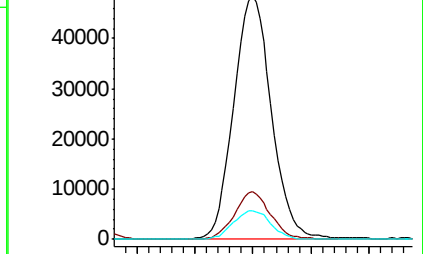
87 11.7 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN058823.D (-1890) (-)

Ion 61.00 (60.70 to 61.70): VN058823.D (-1890) (-)

Ion 87.00 (86.70 to 87.70): VN058823.D (-1890) (-)



#45

1,2-Dichloropropane

Concen: 0.526 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN058823.D

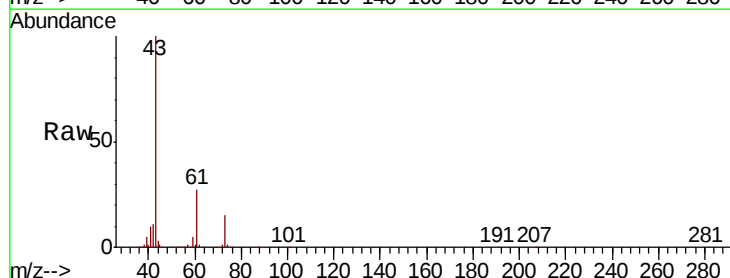
Acq: 17 Oct 2019 13:40

Tgt Ion: 63 Resp: 2432

Ion Ratio Lower Upper

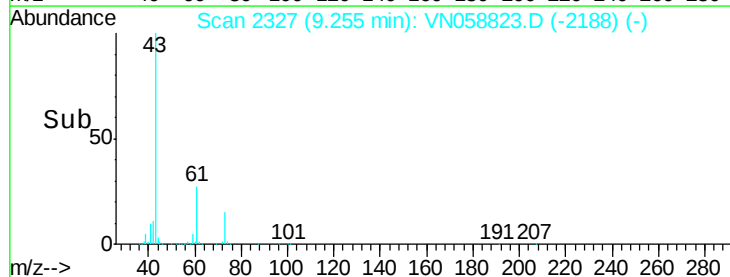
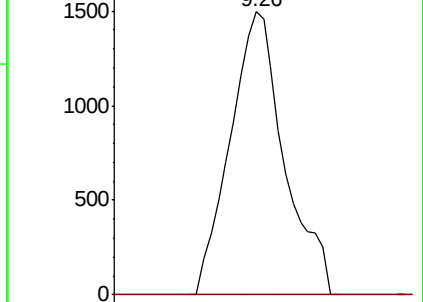
63 100

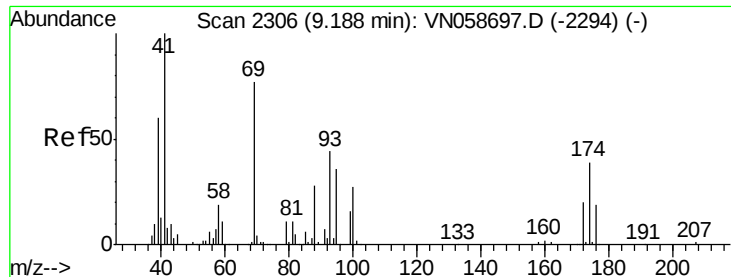
65 0.0 24.1 36.1#



Abundance Ion 62.90 (62.60 to 63.60): VN058823.D (-2188) (-)

Ion 64.90 (64.60 to 65.60): VN058823.D (-2188) (-)

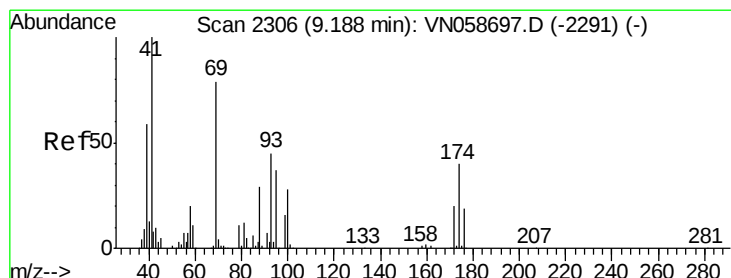
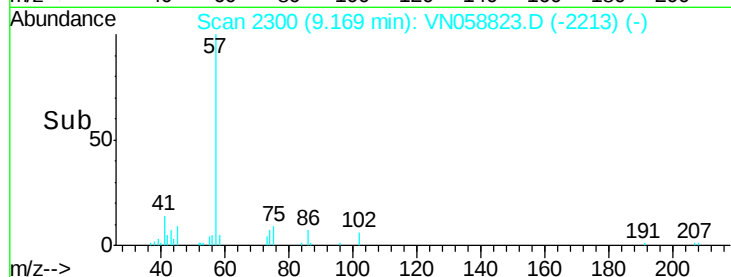
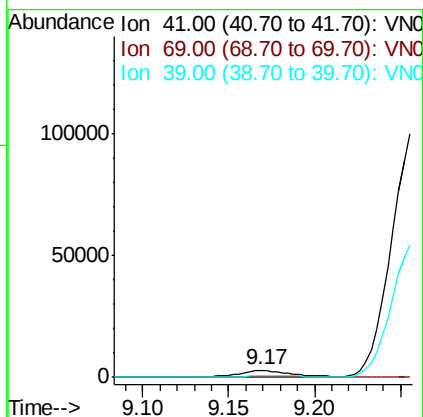
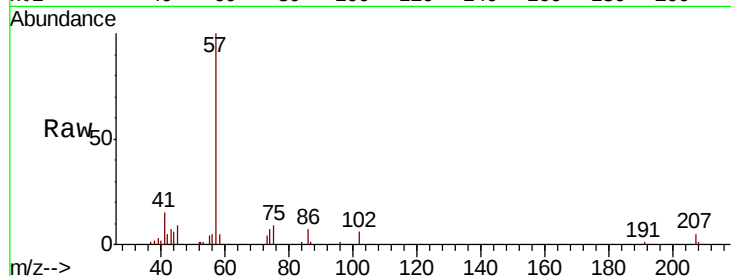




#48
Methvl methacrylate
Concen: 1.299 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.02 min
Lab File: VN058823.D
Acq: 17 Oct 2019 13:40

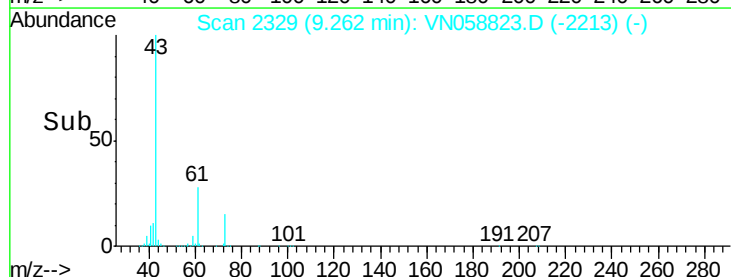
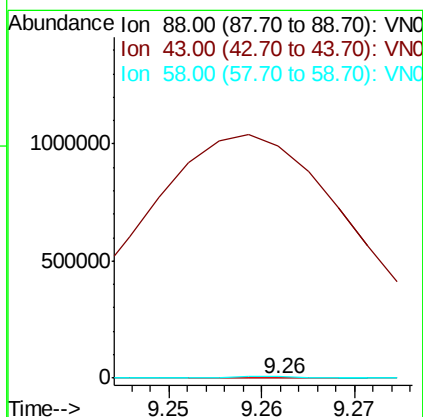
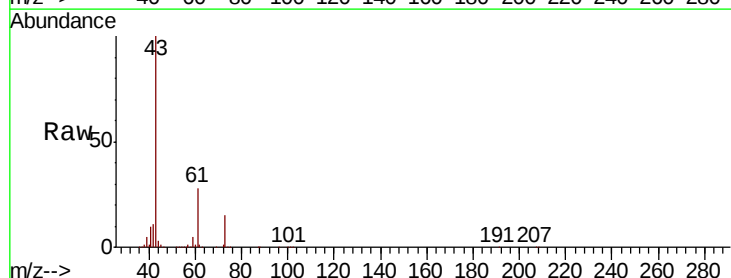
Instrument :
MSVOA_N
ClientSampled :

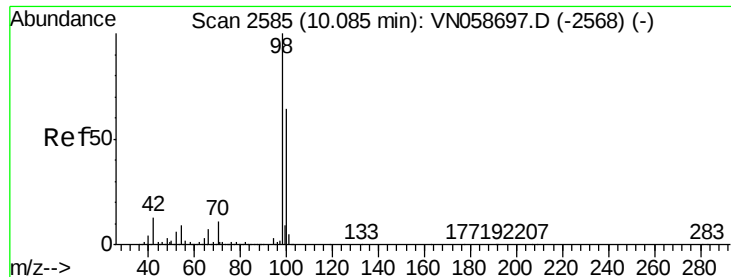
Tot Ion: 41 Resp: 6106
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.2#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 0.853 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.07 min
Lab File: VN058823.D
Acq: 17 Oct 2019 13:40

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 3084469.4 28.6 43.0#
58 14537.1 57.2 85.8#





#50

Toluene-d8

Concen: 51.745 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058823.D

Acq: 17 Oct 2019 13:40

Instrument :

MSVOA_N

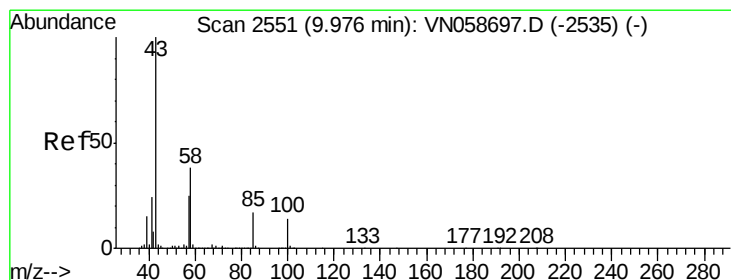
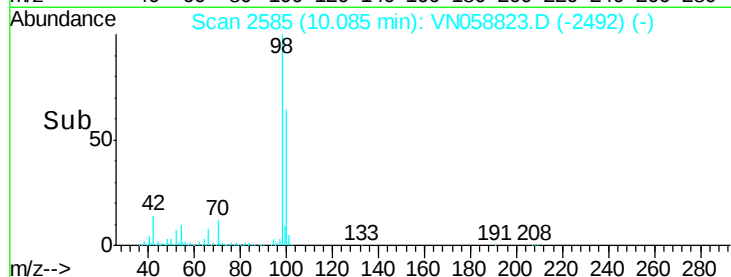
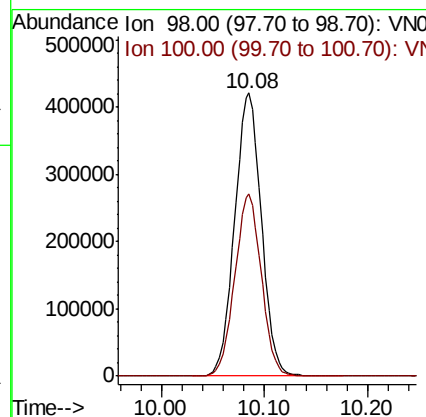
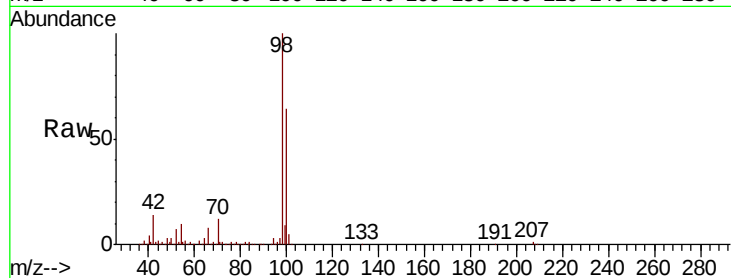
ClientSampleId :

Tot Ion: 98 Resp: 760613

Ion Ratio Lower Upper

98 100

100 63.9 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 1.046 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058823.D

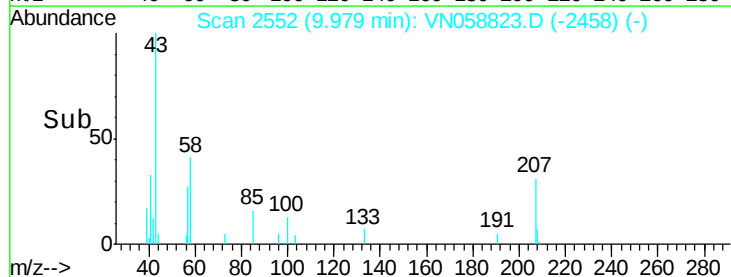
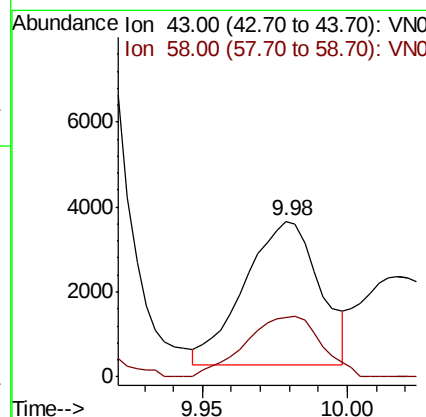
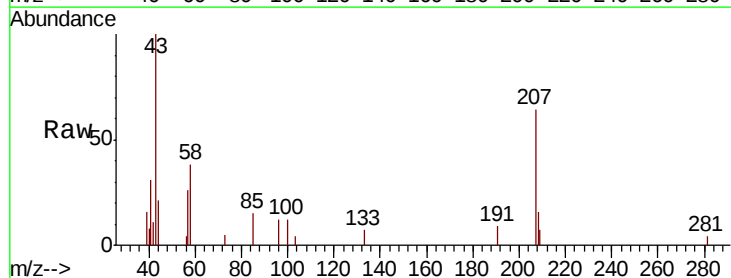
Acq: 17 Oct 2019 13:40

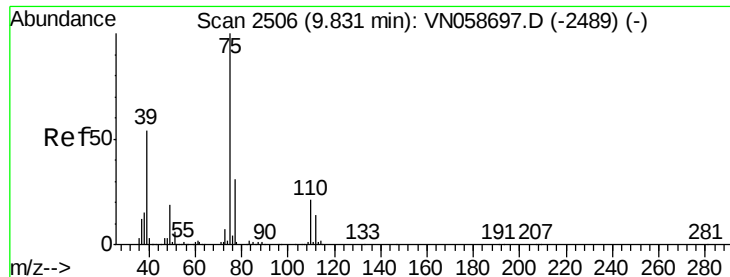
Tgt Ion: 43 Resp: 6092

Ion Ratio Lower Upper

43 100

58 42.6 30.3 45.5



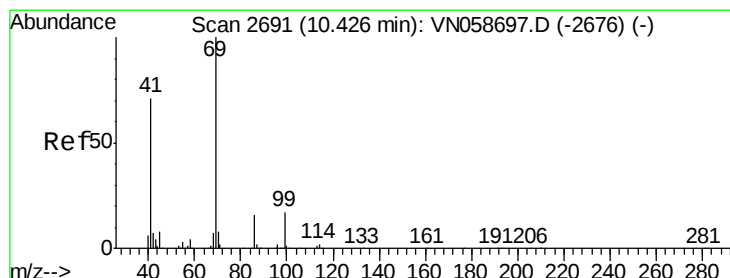
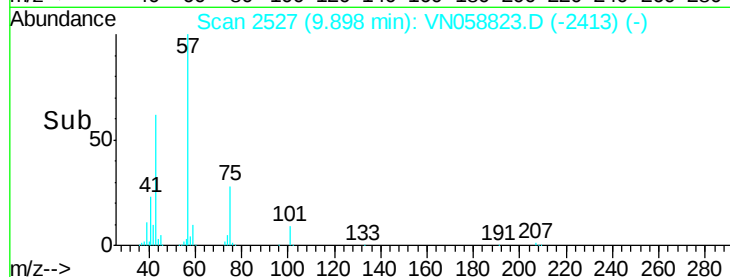
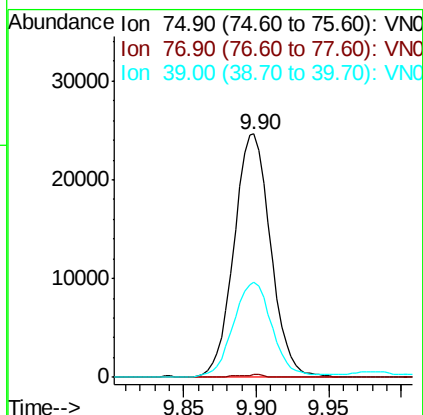
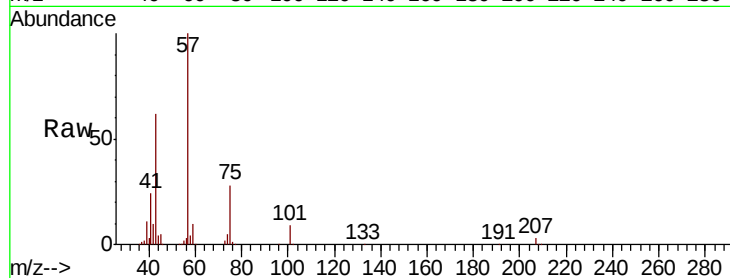


#54

cis-1,3-Dichloropropene
 Concen: 5.966 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.07 min
 Lab File: VN058823.D
 Acq: 17 Oct 2019 13:40

Instrument :
 MSVOA_N
 ClientSampleId :

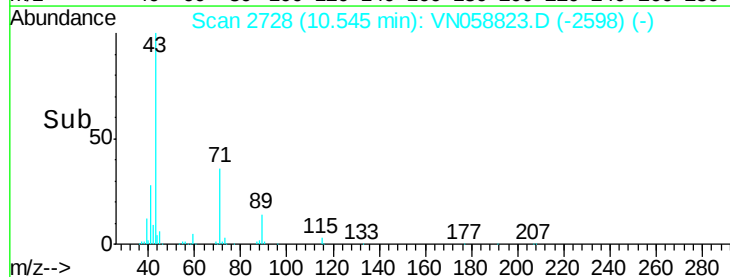
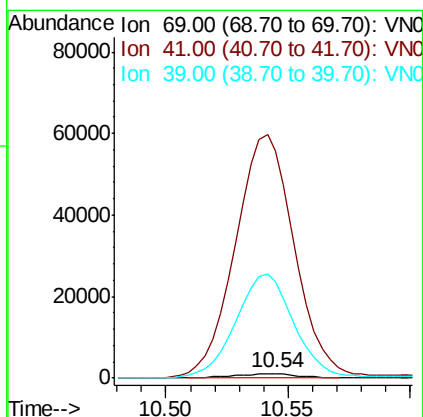
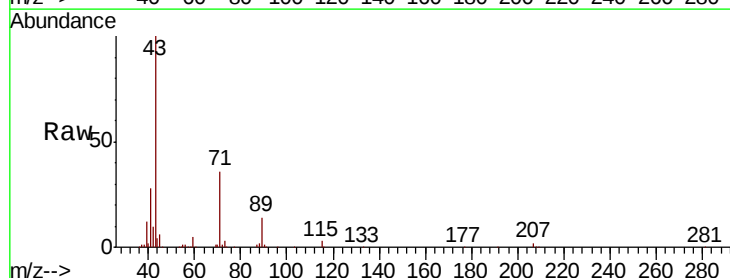
Tot Ion	Ratio	Lower	Upper
75	100		
77	1.0	24.4	36.6#
39	39.2	43.1	64.7#

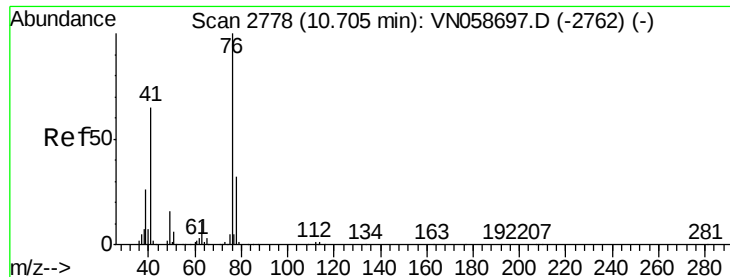


#56

Ethyl methacrylate
 Concen: 0.316 ug/l
 RT: 10.54 min Scan# 2728
 Delta R.T. 0.12 min
 Lab File: VN058823.D
 Acq: 17 Oct 2019 13:40

Tgt Ion	Ratio	Lower	Upper
69	100		
41	5033.7	56.8	85.2#
39	2123.7	32.5	48.7#

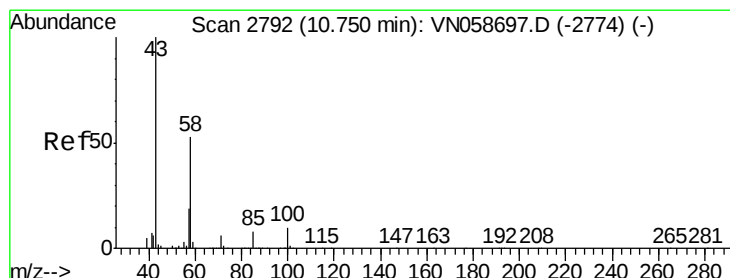
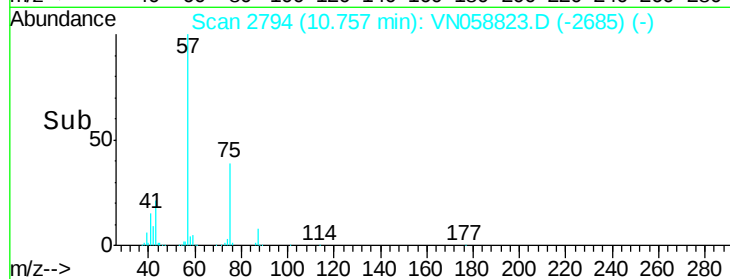
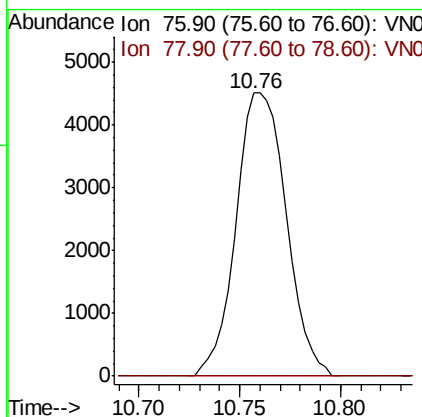
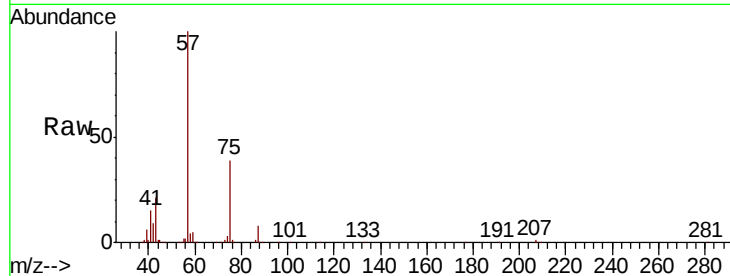




#57
 1,3-Dichloropropane
 Concen: 1.070 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.05 min
 Lab File: VN058823.D
 Acq: 17 Oct 2019 13:40

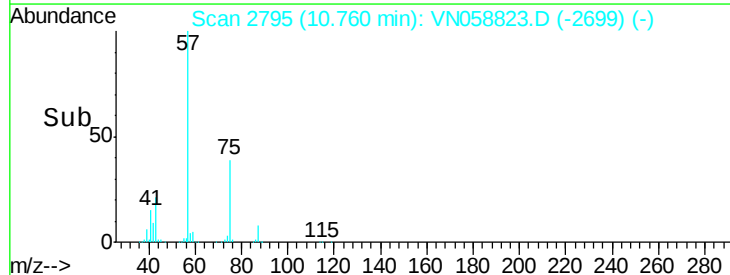
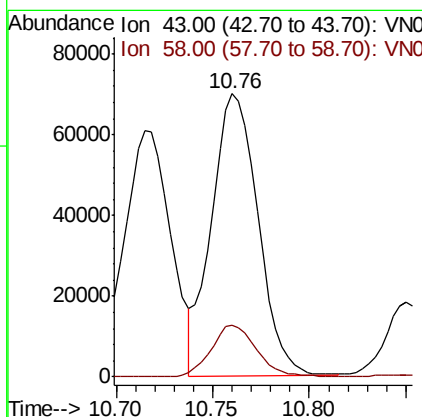
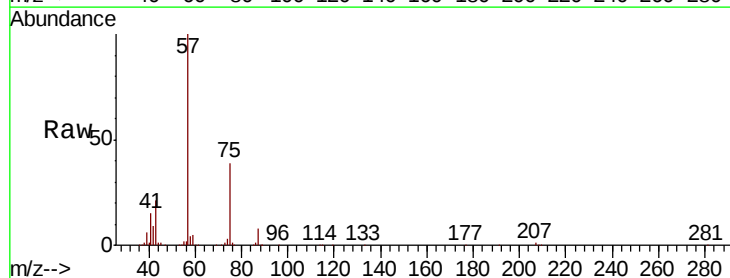
Instrument :
 MSVOA_N
 ClientSampleId :

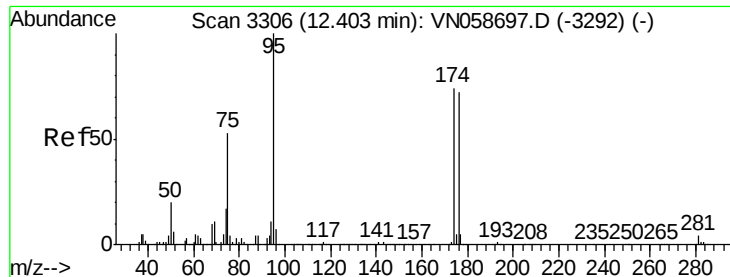
Tot Ion: 76 Resp: 7891
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.9 38.9#



#59
 2-Hexanone
 Concen: 26.067 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN058823.D
 Acq: 17 Oct 2019 13:40

Tgt Ion: 43 Resp: 117282
 Ion Ratio Lower Upper
 43 100
 58 18.0 26.1 78.3#





#62

4-Bromofluorobenzene

Concen: 44.141 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058823.D

Acq: 17 Oct 2019 13:40

Instrument :

MSVOA_N

ClientSampleId :

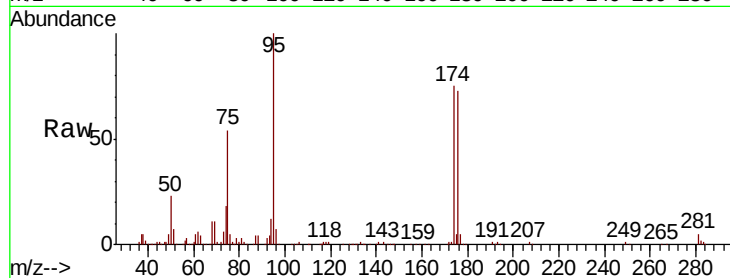
Tot Ion: 95 Resp: 245606

Ion Ratio Lower Upper

95 100

174 75.3 0.0 150.4

176 72.5 0.0 146.8

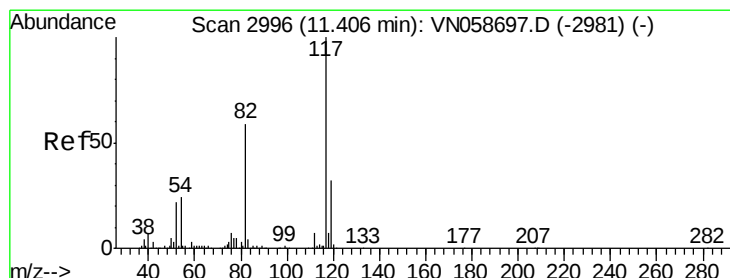
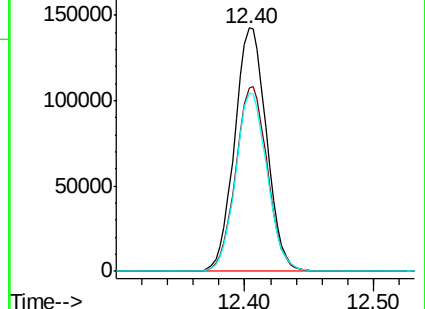
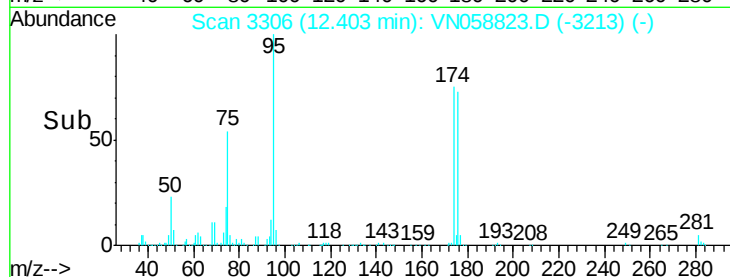


Abundance Ion 94.90 (94.60 to 95.60): VN058697.D (-3292) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058823.D

Acq: 17 Oct 2019 13:40

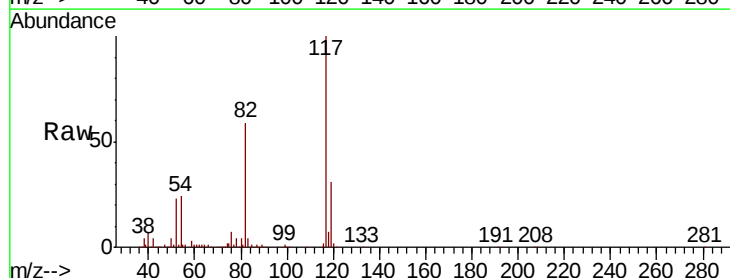
Tgt Ion: 117 Resp: 544924

Ion Ratio Lower Upper

117 100

82 58.8 47.0 70.4

119 31.4 25.4 38.2

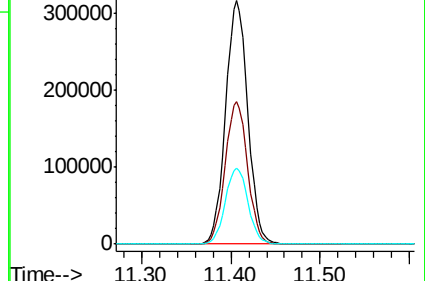
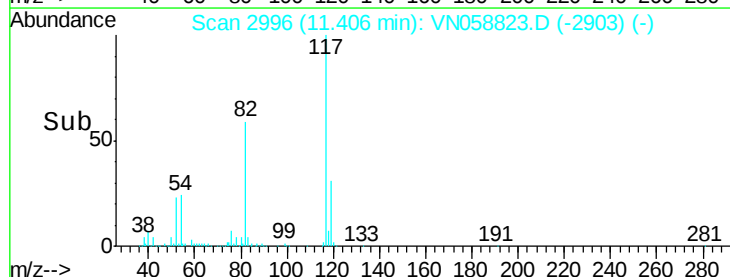


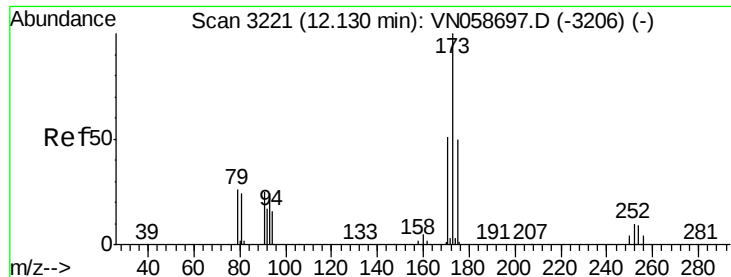
Abundance Ion 116.90 (116.60 to 117.60): VN058697.D (-2981) (-)

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

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

Time-->





#71

Bromoform

Concen: 0.442 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN058823.D

Acq: 17 Oct 2019 13:40

Instrument :

MSVOA_N

ClientSampled :

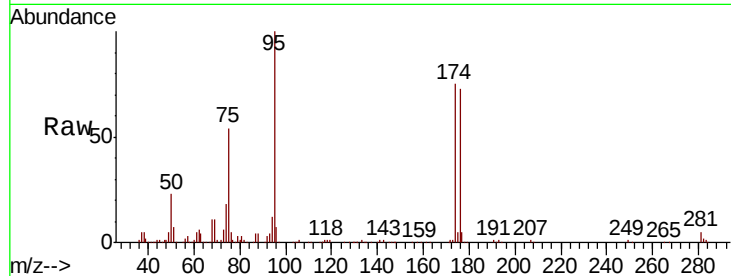
Tot Ion:173 Resp: 1325

Ion Ratio Lower Upper

173 100

175 837.8 24.6 73.8#

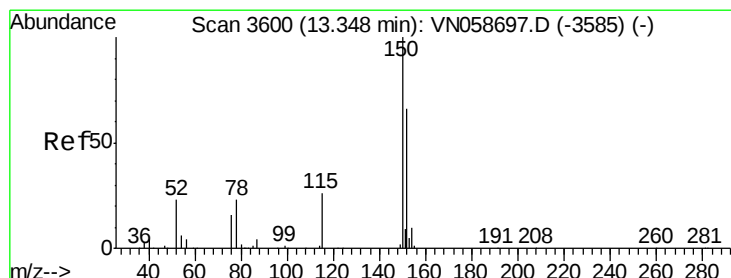
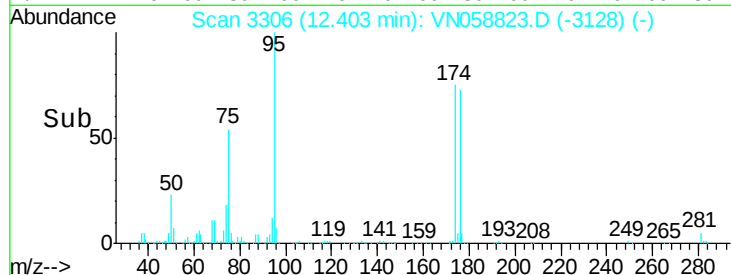
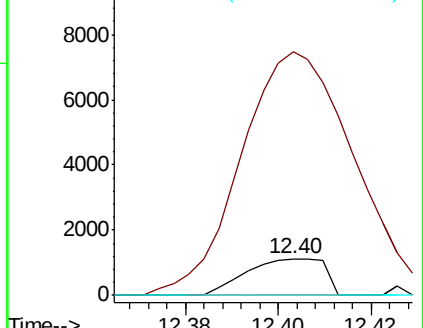
254 0.0 0.1 0.1#



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: VN058823.D

Acq: 17 Oct 2019 13:40

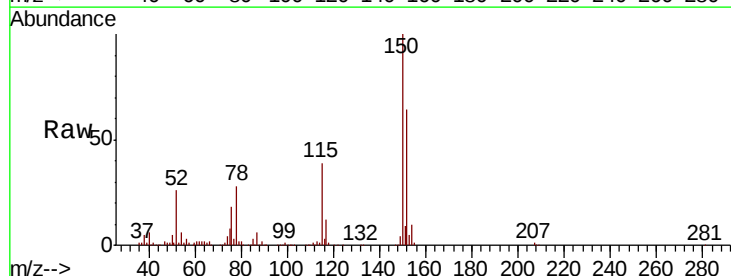
Tgt Ion:152 Resp: 208404

Ion Ratio Lower Upper

152 100

115 60.3 30.4 91.2

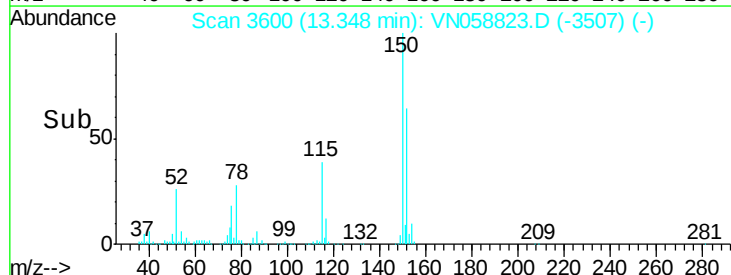
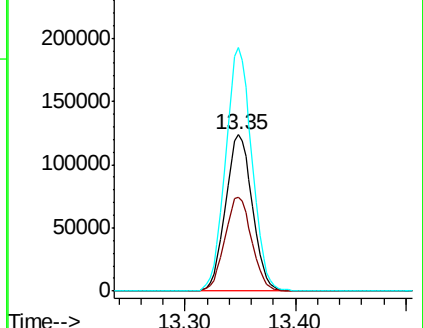
150 153.3 0.0 345.4

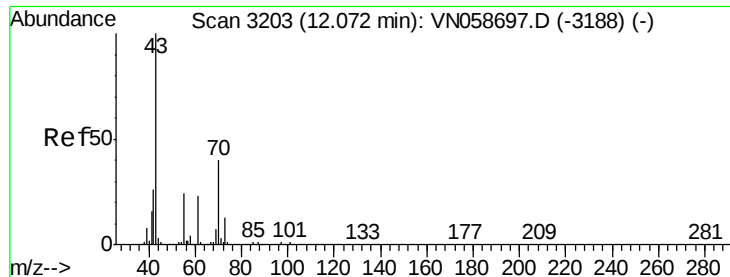


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 0.674 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN058823.D

Acq: 17 Oct 2019 13:40

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4567

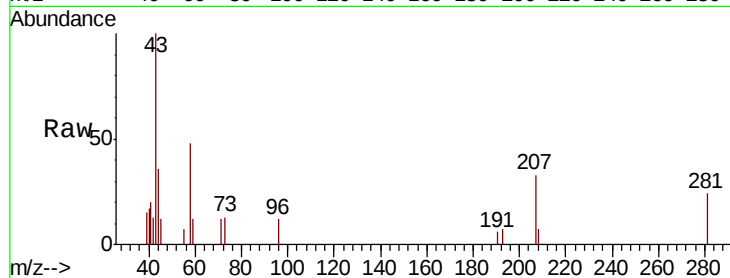
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 3.5 19.6 29.4#

61 0.0 18.6 28.0#

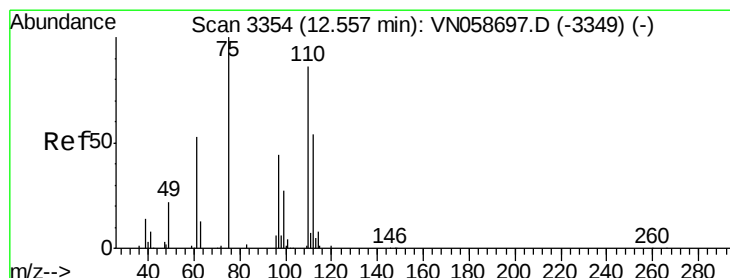
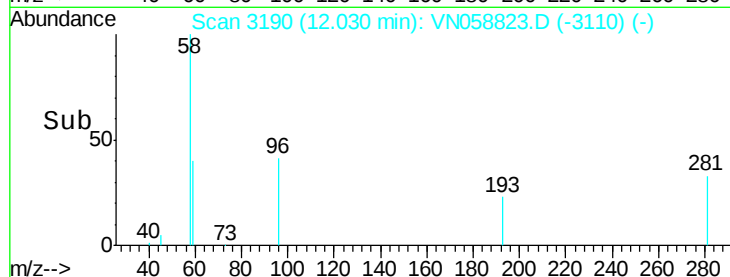
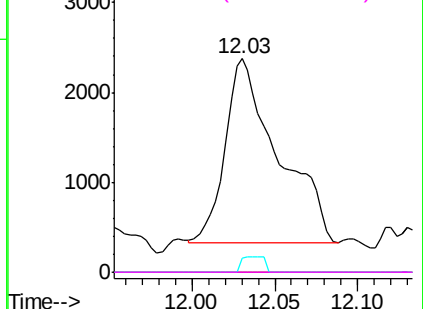


Abundance Ion 43.00 (42.70 to 43.70): VNC

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: 28.708 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058823.D

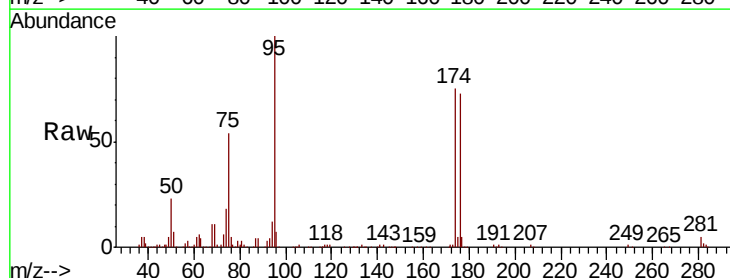
Acq: 17 Oct 2019 13:40

Tgt Ion: 75 Resp: 131248

Ion Ratio Lower Upper

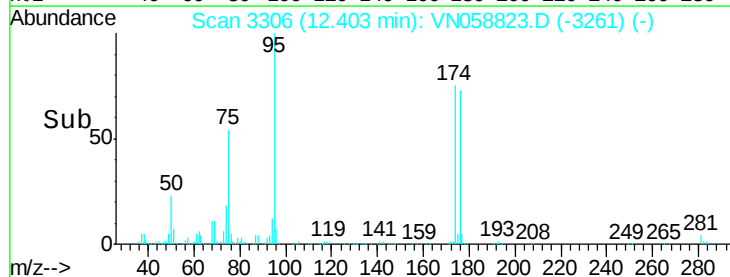
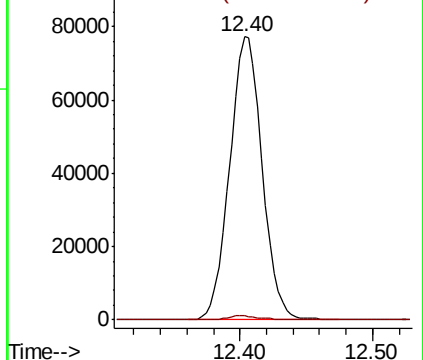
75 100

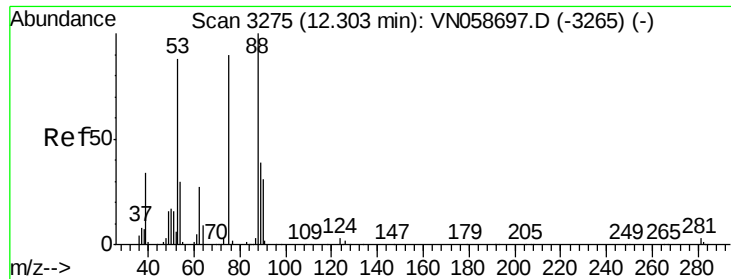
77 1.5 0.0 0.0#



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: 76.899 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058823.D

Acq: 17 Oct 2019 13:40

Instrument :

MSVOA_N

ClientSampleId :

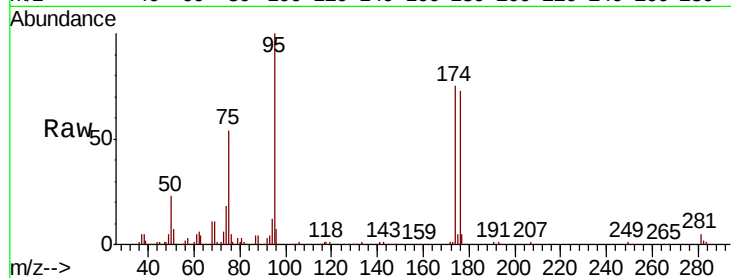
Tot Ion: 75 Resp: 131248

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.0 34.9 52.3#



Abundance Ion 74.90 (74.60 to 75.60): VN058823.D (-3182) (-)

Ion 53.00 (52.70 to 53.70): VN058823.D (-3182) (-)

Ion 88.90 (88.60 to 89.60): VN058823.D (-3182) (-)

