

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112919\
 Data File : VN059444.D
 Acq On : 29 Nov 2019 13:39
 Operator : JC/SP
 Sample : K6024-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 29 22:27:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112719W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 27 16:56:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	323890	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	495448	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	431114	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	164266	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	184645	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
35) Dibromofluoromethane	7.57	113	150797	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
50) Toluene-d8	10.08	98	596372	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
62) 4-Bromofluorobenzene	12.40	95	189895	45.36	ug/l	0.00
Spiked Amount			Recovery	=	90.72%	

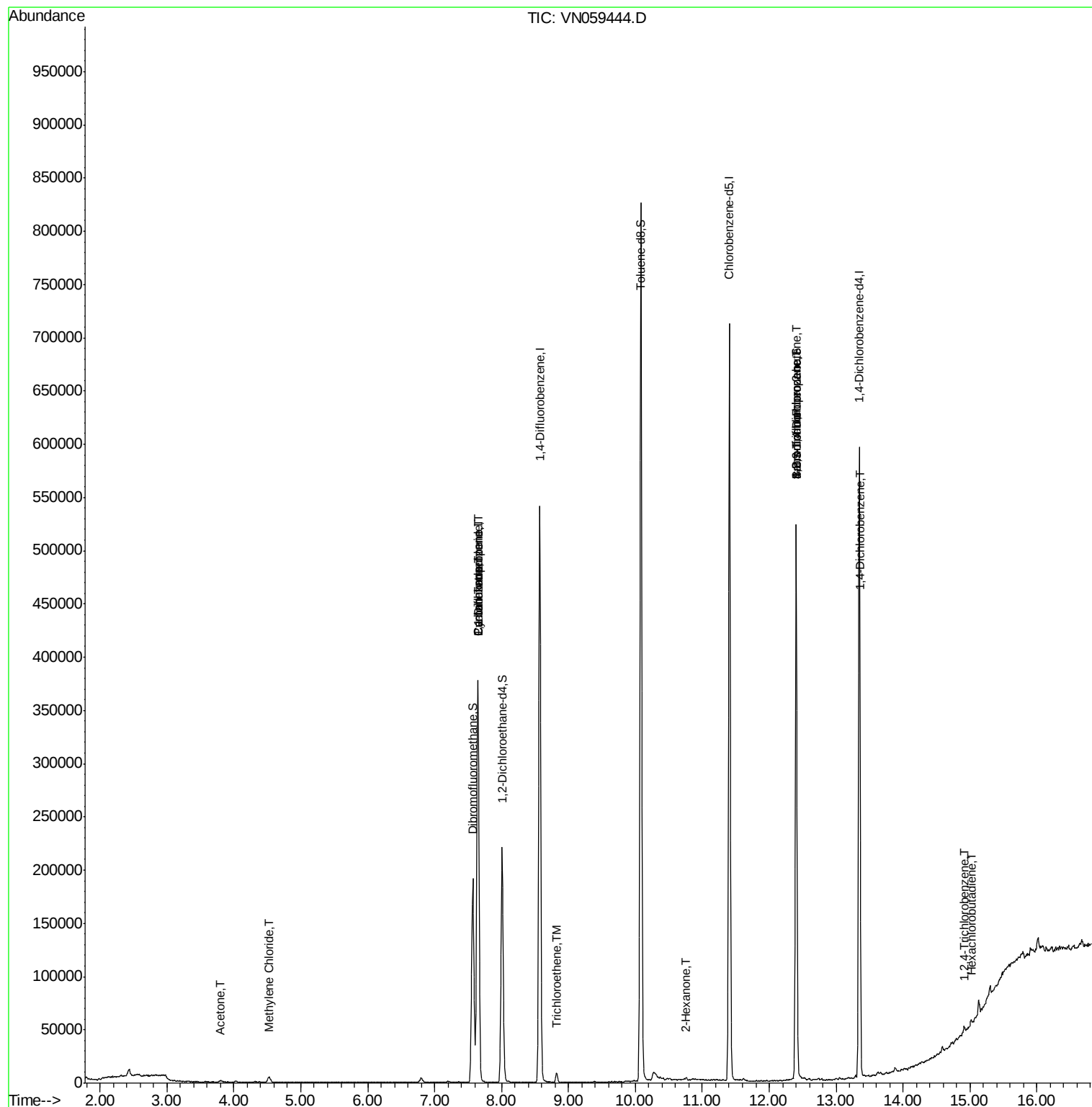
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	3425	1.895	ug/l	99
20) Methylene Chloride	4.52	84	4077	1.110	ug/l #	83
31) Cyclohexane	7.64	56	5673	0.888	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	23040	4.836	ug/l #	49
38) Carbon Tetrachloride	7.64	117	29898	6.649	ug/l #	16
44) Trichloroethene	8.82	130	3570	0.990	ug/l	87
59) 2-Hexanone	10.75	43	1364	0.414	ug/l	81
70) Styrene	11.96	104	392	Below Cal	#	65
71) Bromoform	12.40	173	1015	0.421	ug/l #	1
74) N-amyl acetate	12.08	43	452	Below Cal	#	42
76) 1,2,3-Trichloropropane	12.40	75	92185	24.807	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	92185	63.740	ug/l #	17
88) 1,4-Dichlorobenzene	13.36	146	1238	0.234	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	14.26	75	610	Below Cal	#	15
93) 1,2,4-Trichlorobenzene	14.91	180	1923	0.598	ug/l	94
94) Hexachlorobutadiene	15.01	225	502	0.255	ug/l	89
95) Naphthalene	15.13	128	9040	Below Cal		99
96) 1,2,3-Trichlorobenzene	15.30	180	2770	Below Cal	#	82

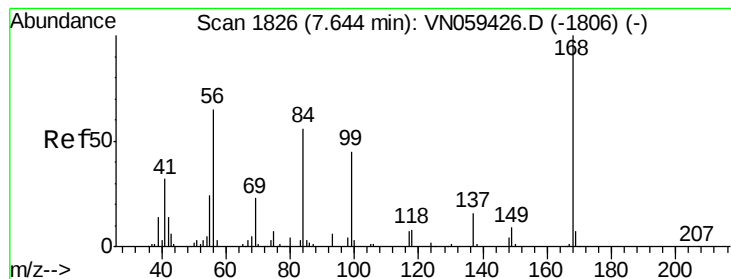
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112719W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 27 16:56:05 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059444.D

Acq: 29 Nov 2019 13:39

Instrument :

MSVOA_N

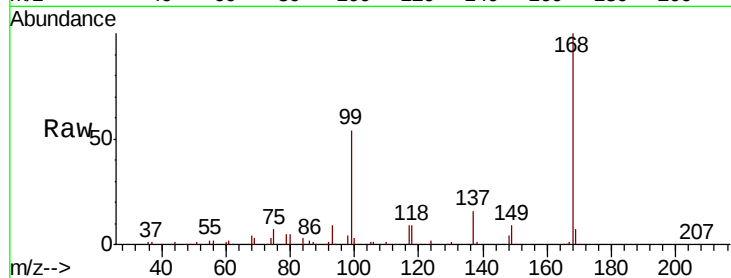
ClientSampled :

Tot Ion:168 Resp: 323890

Ion Ratio Lower Upper

168 100

99 54.1 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): VN059444.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN059444.D (-1733) (-)

7.65

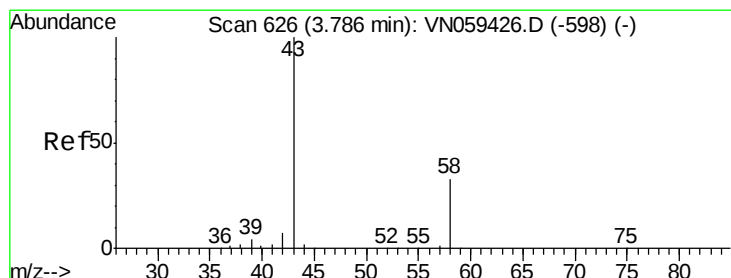
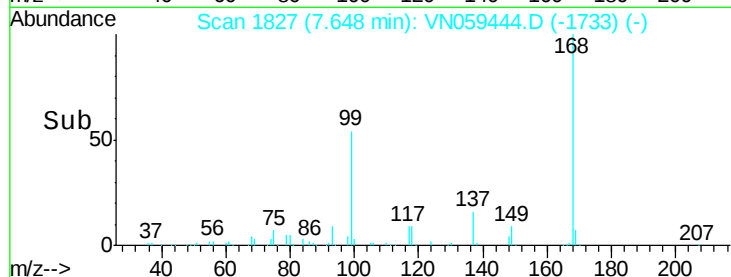
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 1.895 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.02 min

Lab File: VN059444.D

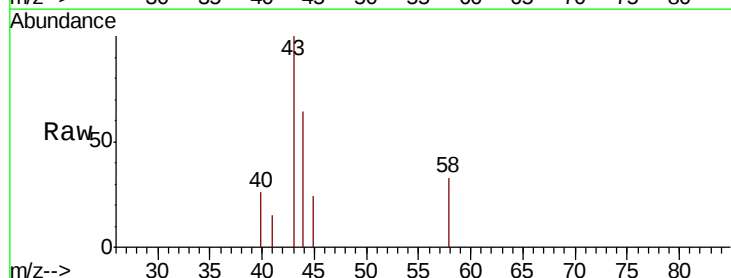
Acq: 29 Nov 2019 13:39

Tgt Ion: 43 Resp: 3425

Ion Ratio Lower Upper

43 100

58 32.9 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN059444.D (-533) (-)

Ion 58.00 (57.70 to 58.70): VN059444.D (-533) (-)

3.80

1200

1000

800

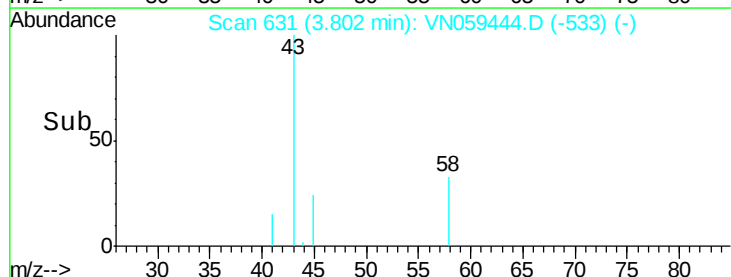
600

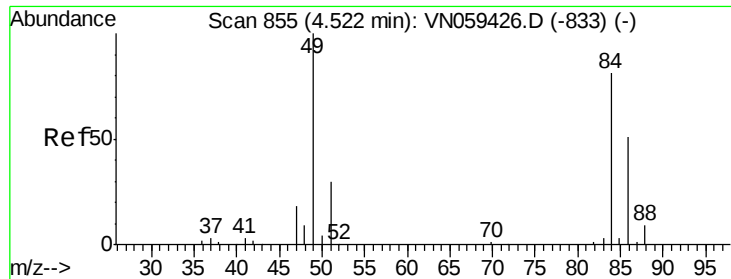
400

200

0

Time--> 3.70 3.75 3.80 3.85 3.90

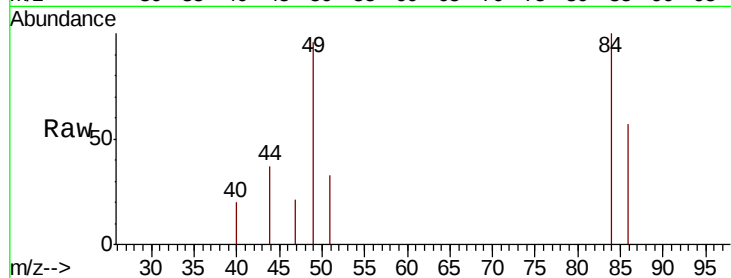




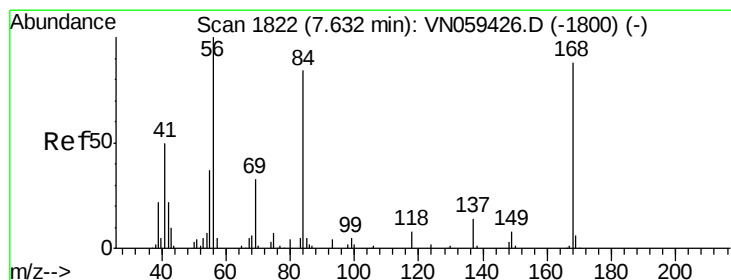
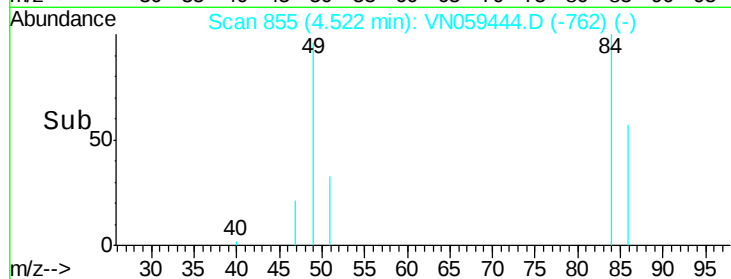
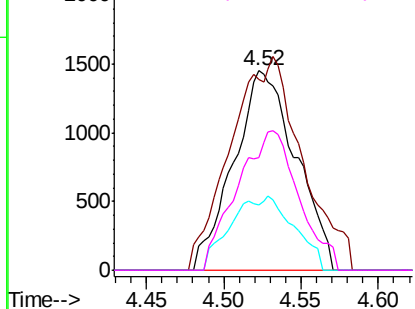
#20
Methvlene Chloride
Concen: 1.110 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059444.D
Acq: 29 Nov 2019 13:39

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 4077
Ion Ratio Lower Upper
84 100
49 95.5 98.6 148.0#
51 32.7 29.4 44.0
86 56.6 50.6 76.0

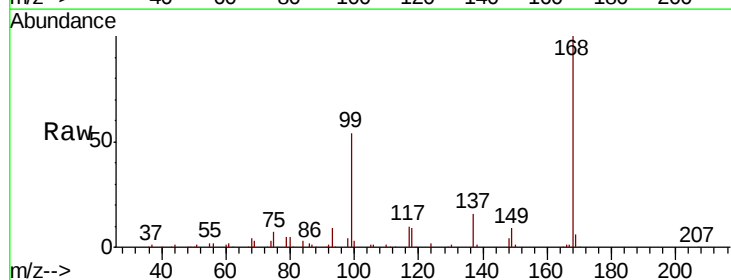


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

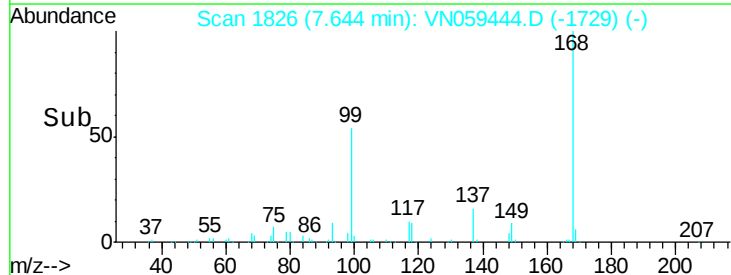
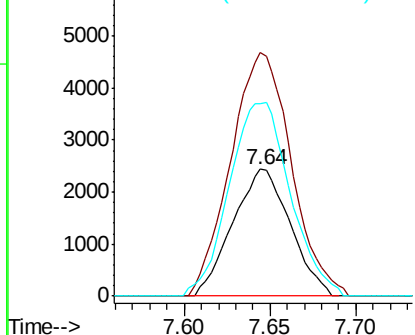


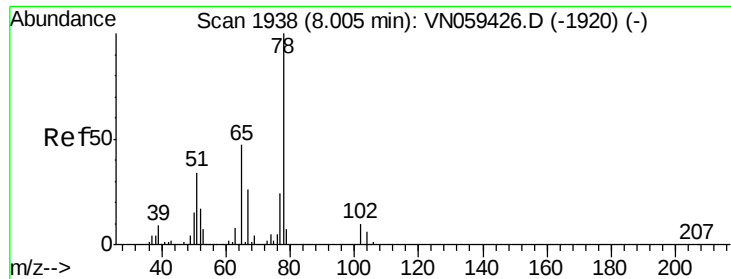
#31
Cyclohexane
Concen: 0.888 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059444.D
Acq: 29 Nov 2019 13:39

Tgt Ion: 56 Resp: 5673
Ion Ratio Lower Upper
56 100
69 191.6 26.4 39.6#
84 144.6 67.0 100.6#



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

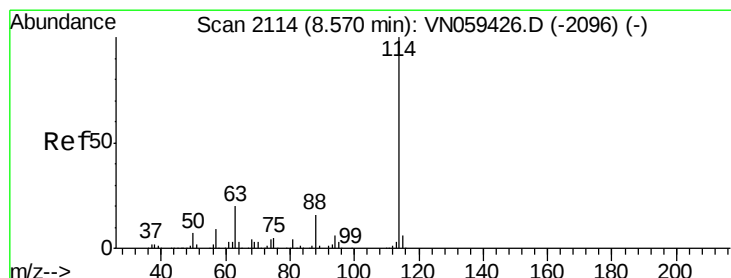
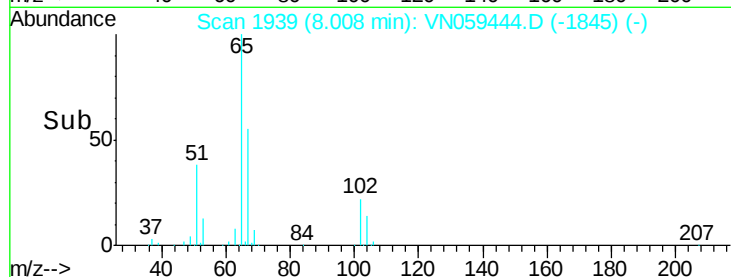
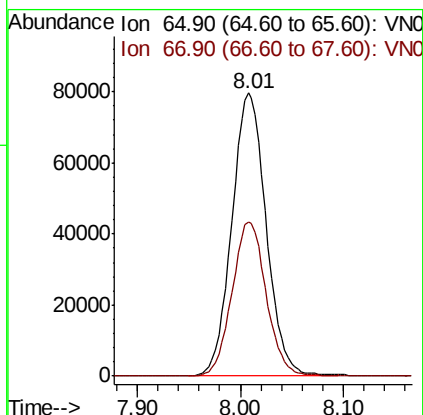
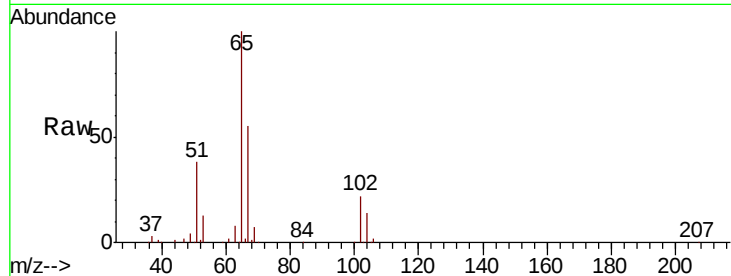




#33
 1,2-Dichloroethane-d4
 Concen: 48.667 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059444.D
 Acq: 29 Nov 2019 13:39

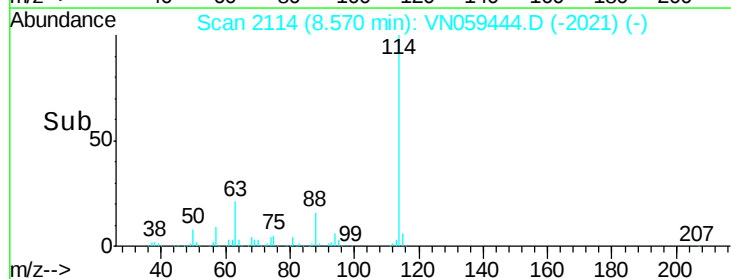
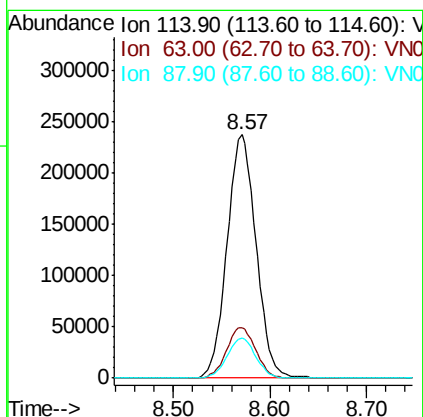
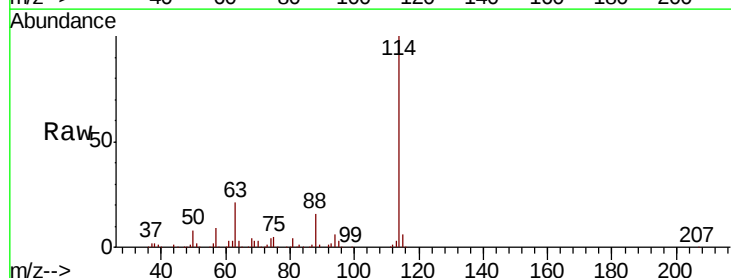
Instrument :
 MSVOA_N
 ClientSampleId :

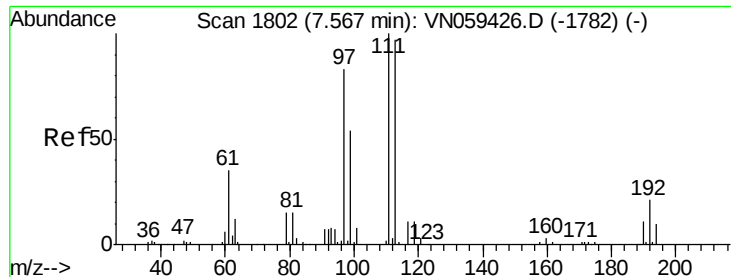
Tot Ion: 65 Resp: 184645
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059444.D
 Acq: 29 Nov 2019 13:39

Tgt Ion: 114 Resp: 495448
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.4
 88 16.5 0.0 32.2

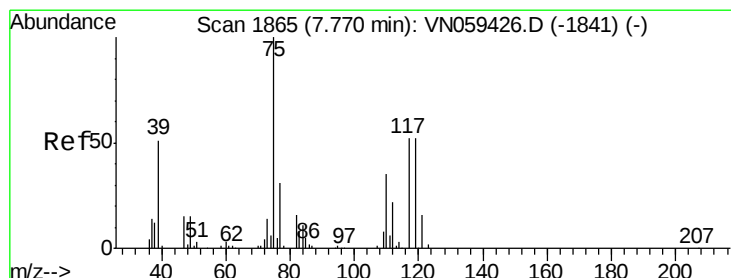
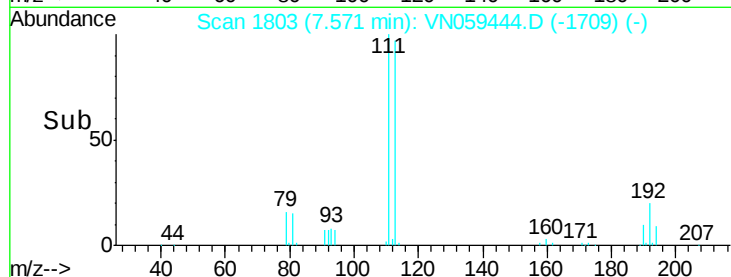
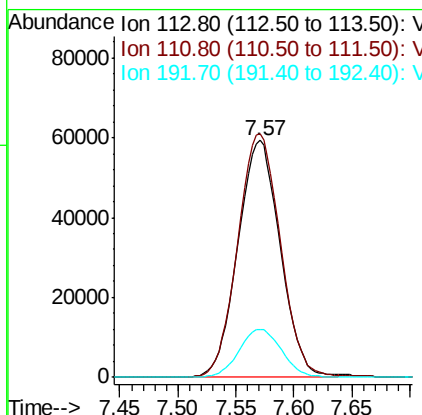
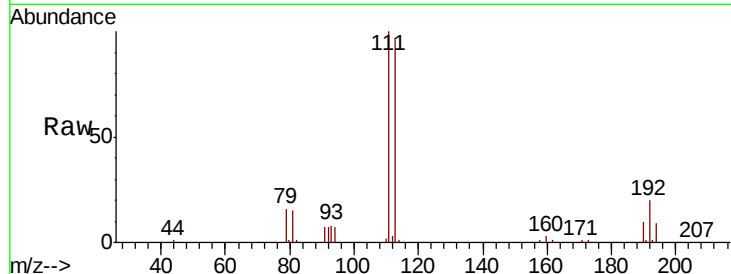




#35
 Dibromofluoromethane
 Concen: 49.968 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059444.D
 Acq: 29 Nov 2019 13:39

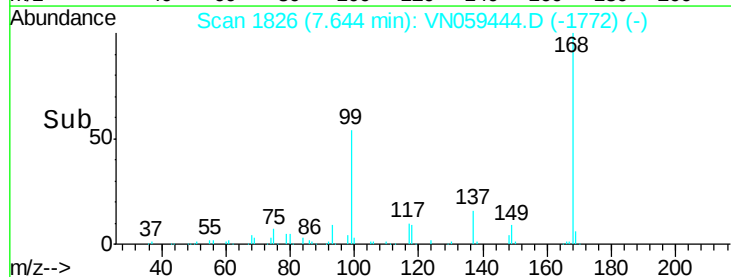
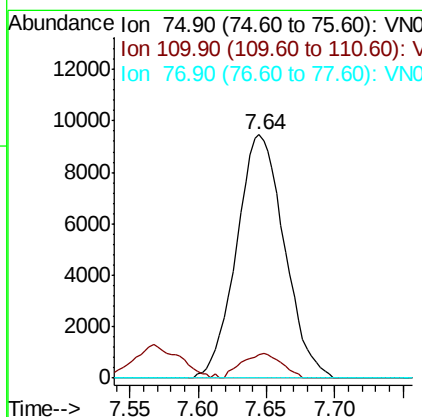
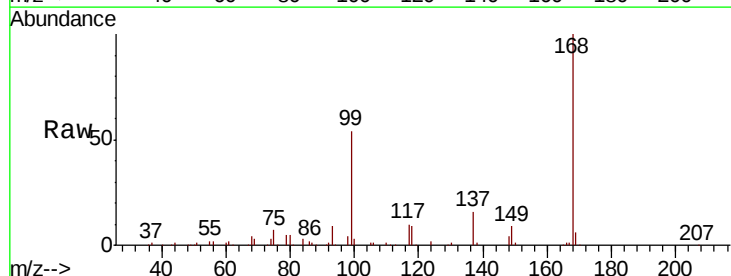
Instrument :
 MSVOA_N
 ClientSampleId :

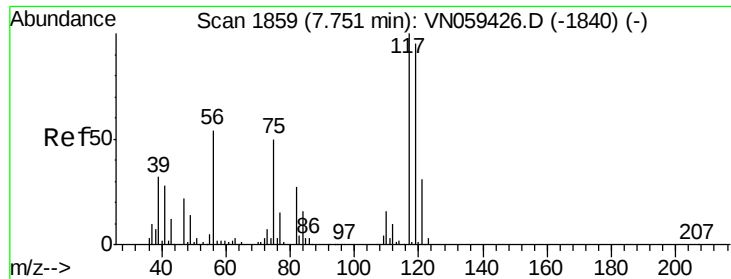
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.9	122.9
192	20.4	16.6	24.8



#36
 1,1-Dichloropropene
 Concen: 4.836 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059444.D
 Acq: 29 Nov 2019 13:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	17.3	52.0#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.649 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059444.D

Acq: 29 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampled :

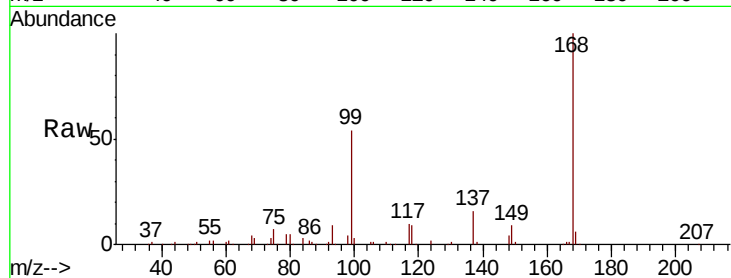
Tot Ion:117 Resp: 29898

Ion Ratio Lower Upper

117 100

119 4.6 75.9 113.9#

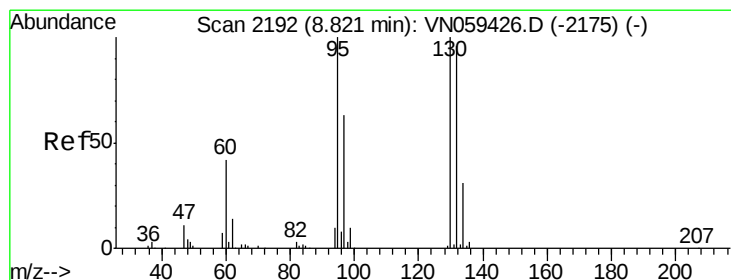
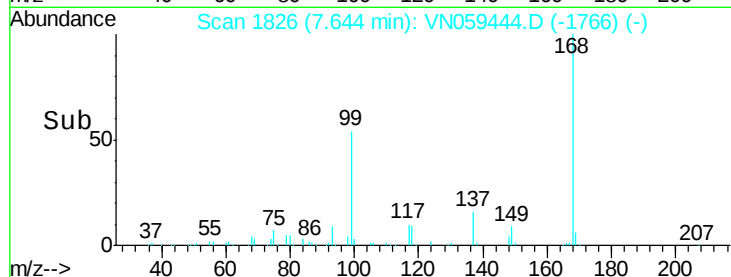
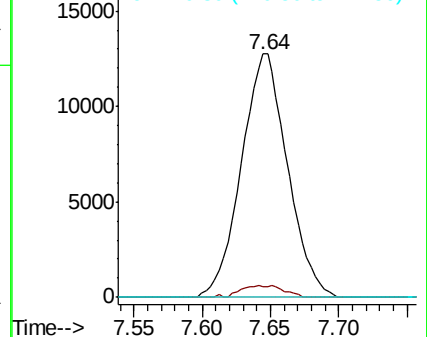
121 0.0 24.6 36.8#



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



#44

Trichloroethene

Concen: 0.990 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VN059444.D

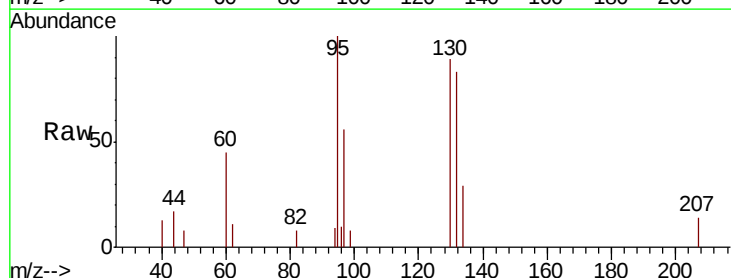
Acq: 29 Nov 2019 13:39

Tgt Ion:130 Resp: 3570

Ion Ratio Lower Upper

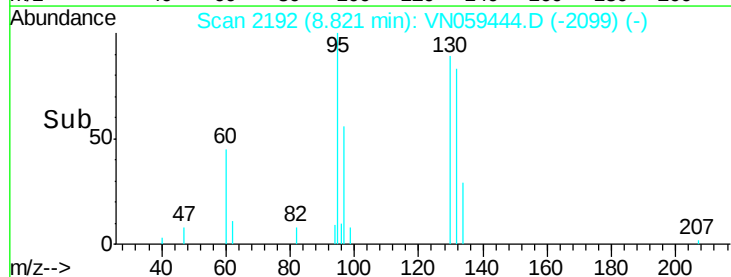
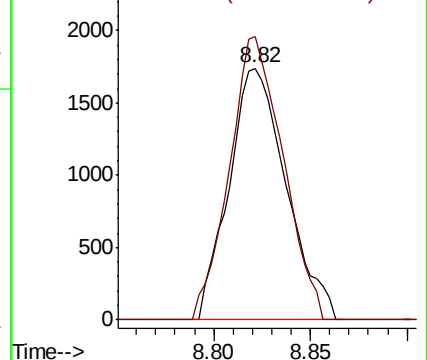
130 100

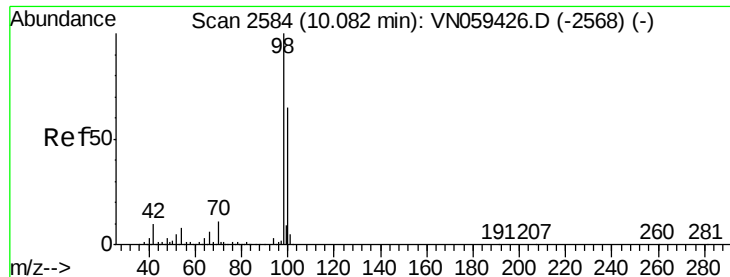
95 112.4 0.0 199.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 49.595 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059444.D

Acq: 29 Nov 2019 13:39

Instrument :

MSVOA_N

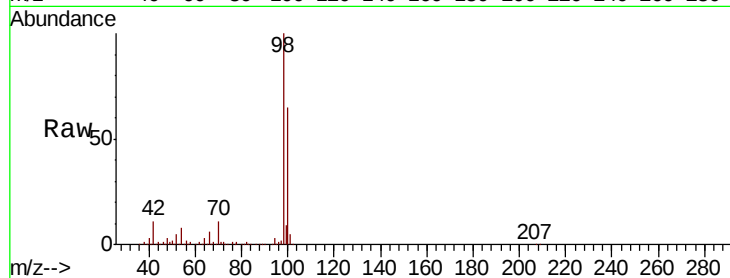
ClientSampled :

Tot Ion: 98 Resp: 596372

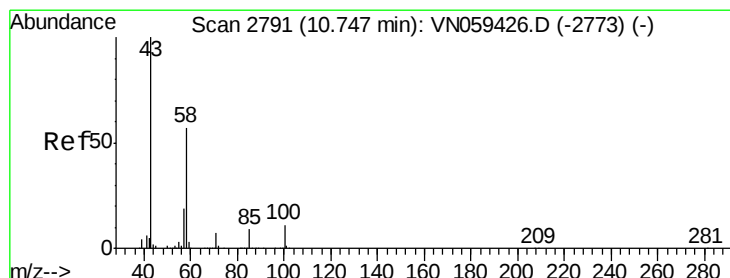
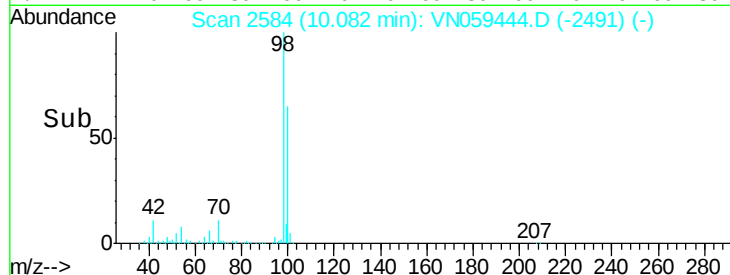
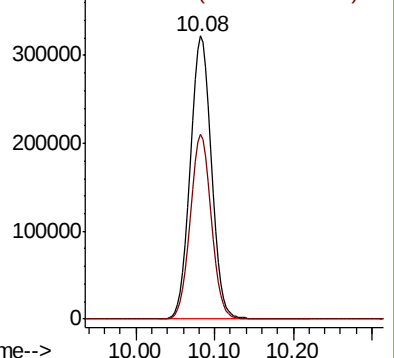
Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN059444.D (-2491) (-)



#59

2-Hexanone

Concen: 0.414 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059444.D

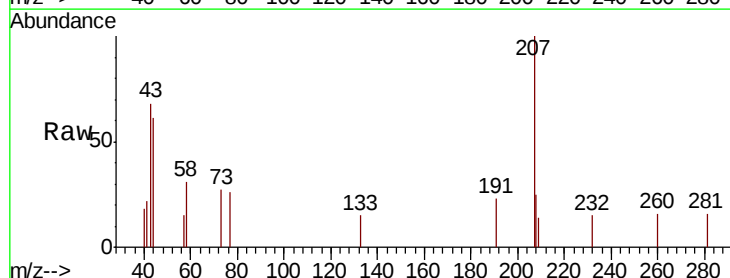
Acq: 29 Nov 2019 13:39

Tgt Ion: 43 Resp: 1364

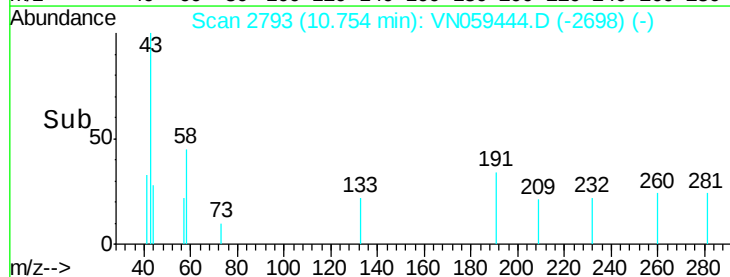
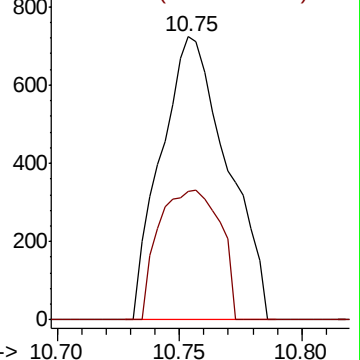
Ion Ratio Lower Upper

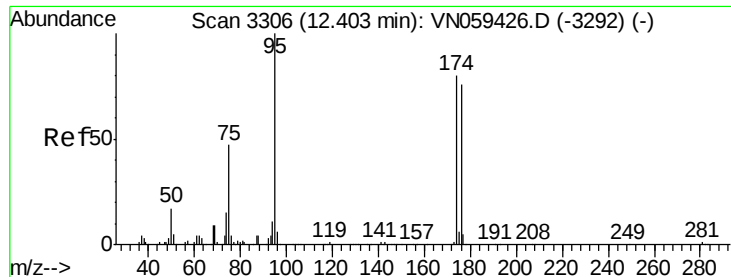
43 100

58 42.6 28.3 85.0



Abundance Ion 43.00 (42.70 to 43.70): VN059444.D (-2698) (-)





#62

4-Bromofluorobenzene

Concen: 45.355 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059444.D

Acq: 29 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

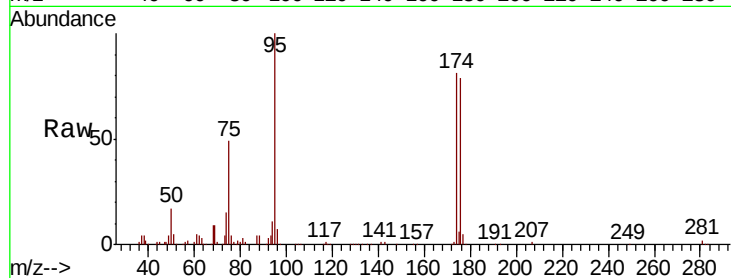
Tot Ion: 95 Resp: 189895

Ion Ratio Lower Upper

95 100

174 80.2 0.0 158.0

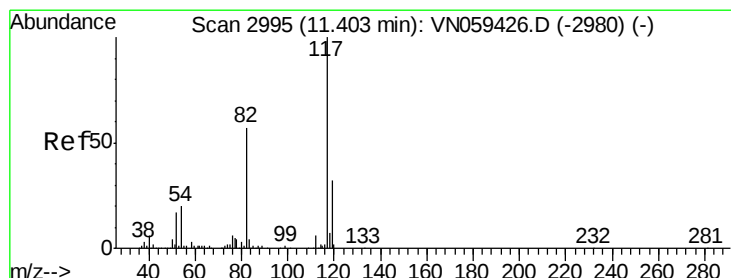
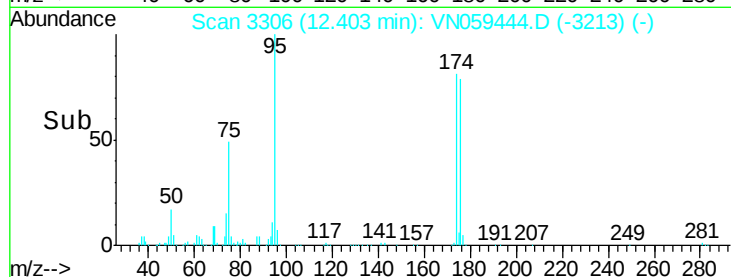
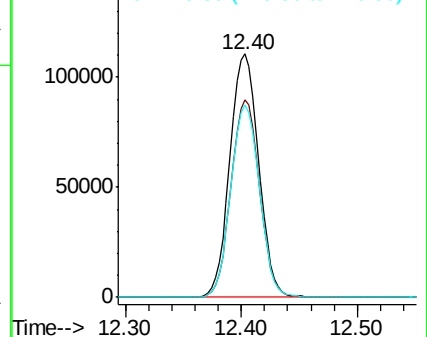
176 78.8 0.0 153.0



Abundance Ion 94.90 (94.60 to 95.60): VN059444.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN059444.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN059444.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059444.D

Acq: 29 Nov 2019 13:39

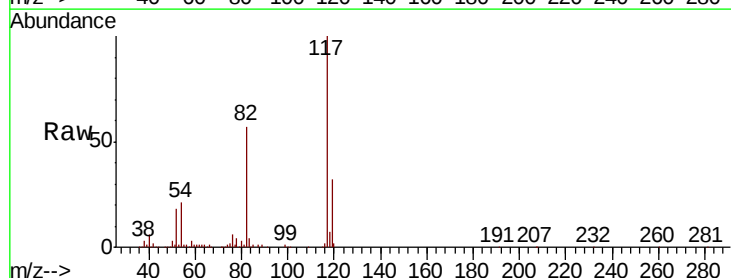
Tgt Ion: 117 Resp: 431114

Ion Ratio Lower Upper

117 100

82 56.6 45.4 68.0

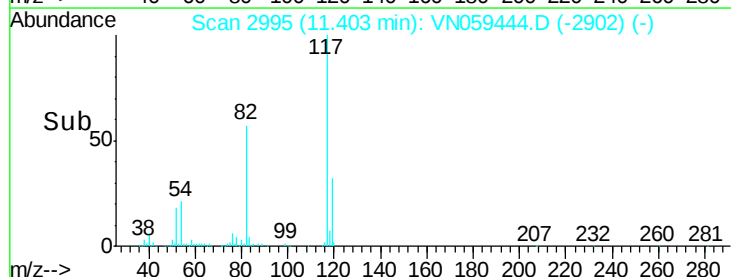
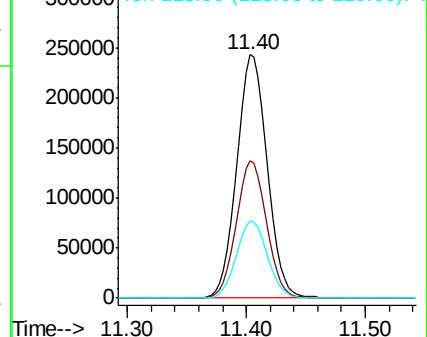
119 31.5 25.6 38.4

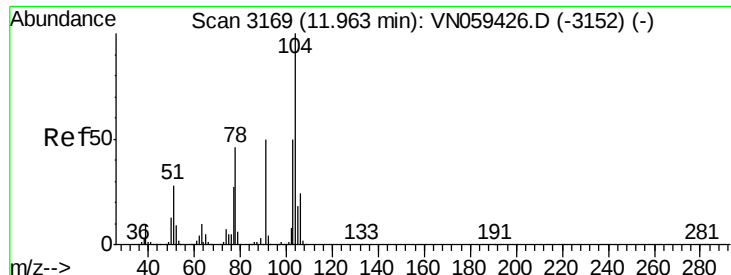


Abundance Ion 116.90 (116.60 to 117.60): VN059444.D (-2902) (-)

Ion 82.00 (81.70 to 82.70): VN059444.D (-2902) (-)

Ion 118.90 (118.60 to 119.60): VN059444.D (-2902) (-)





#70

Stvrene

Concen: Below Cal

RT: 11.96 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VN059444.D

Acq: 29 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampleId :

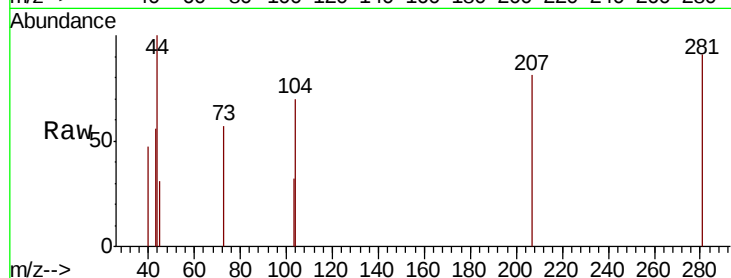
Tot Ion:104 Resp: 392

Ion Ratio Lower Upper

104 100

78 16.1 40.4 60.6#

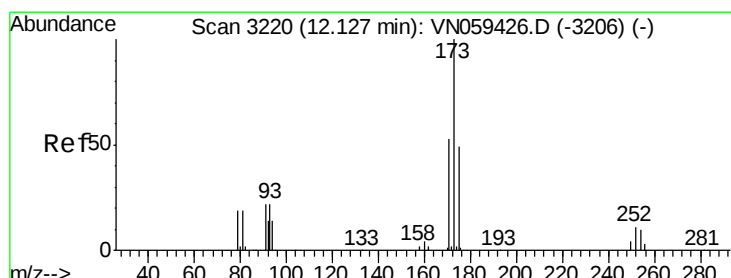
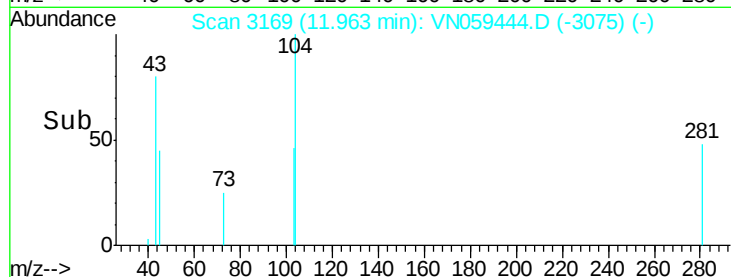
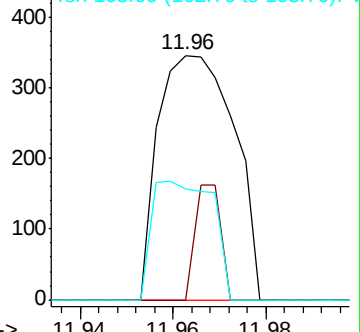
103 39.3 43.8 65.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.421 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN059444.D

Acq: 29 Nov 2019 13:39

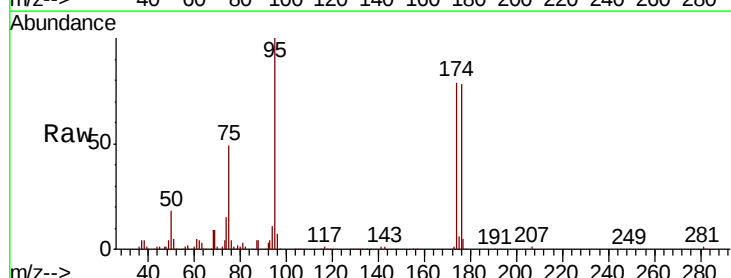
Tgt Ion:173 Resp: 1015

Ion Ratio Lower Upper

173 100

175 875.6 24.1 72.3#

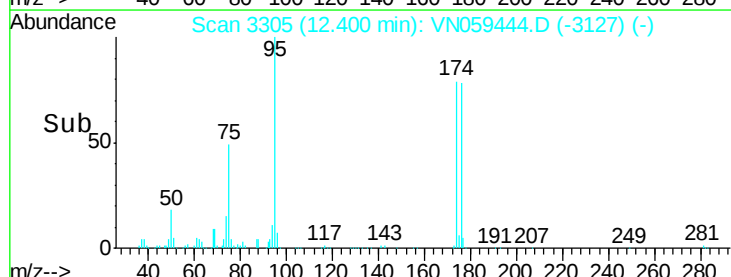
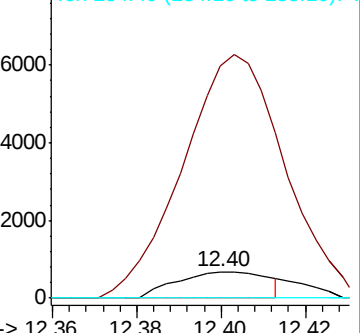
254 0.0 0.0 0.0

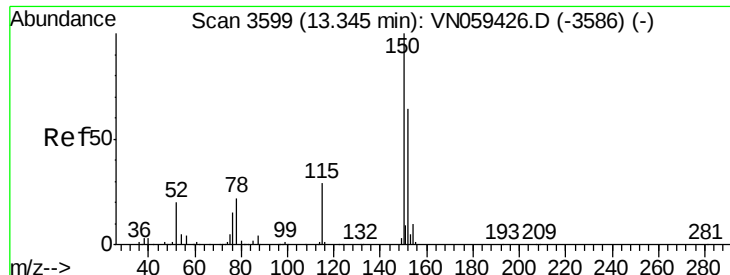


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3599

Delta R.T. 0.00 min

Lab File: VN059444.D

Acq: 29 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampled :

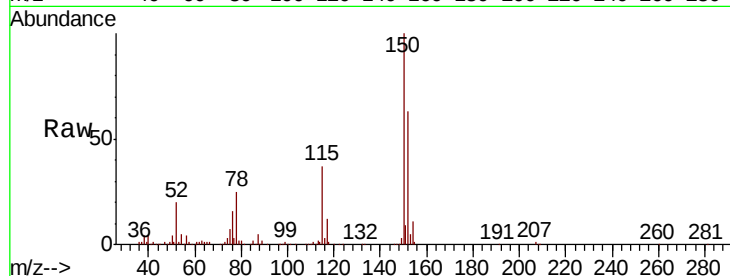
Tot Ion:152 Resp: 164266

Ion Ratio Lower Upper

152 100

115 58.8 29.5 88.6

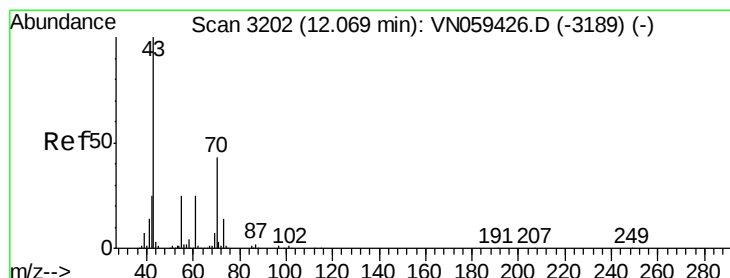
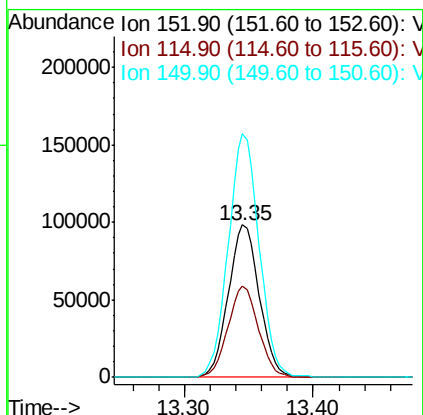
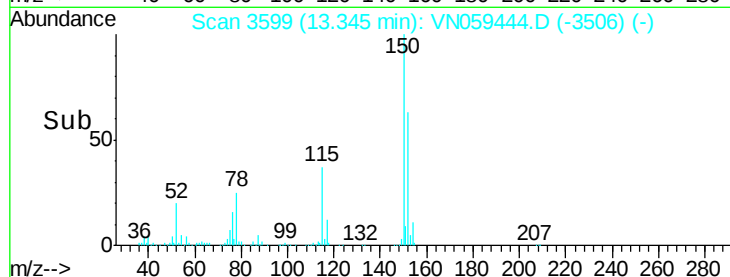
150 158.6 0.0 347.2



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: Below Cal

RT: 12.08 min Scan# 3206

Delta R.T. 0.01 min

Lab File: VN059444.D

Acq: 29 Nov 2019 13:39

Tgt Ion: 43 Resp: 452

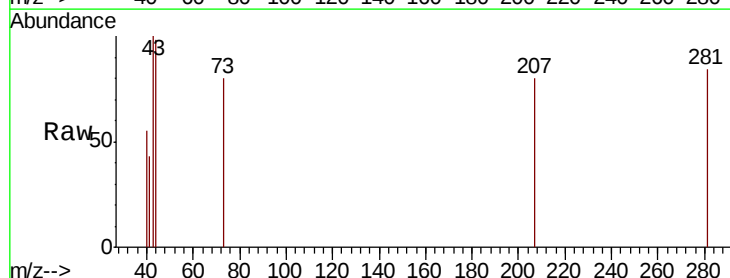
Ion Ratio Lower Upper

43 100

70 0.0 34.6 52.0#

55 0.0 20.5 30.7#

61 0.0 20.2 30.4#

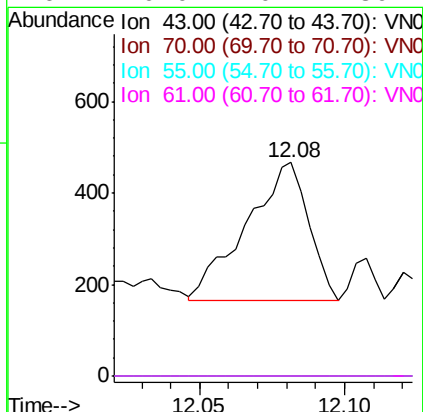
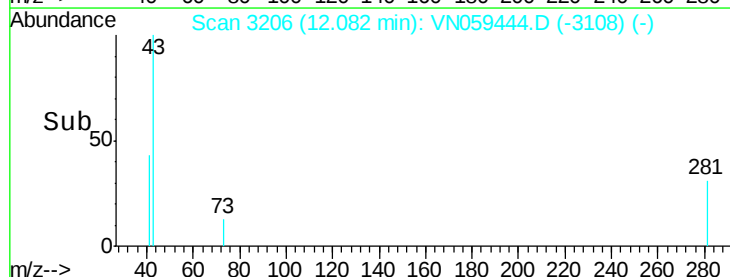


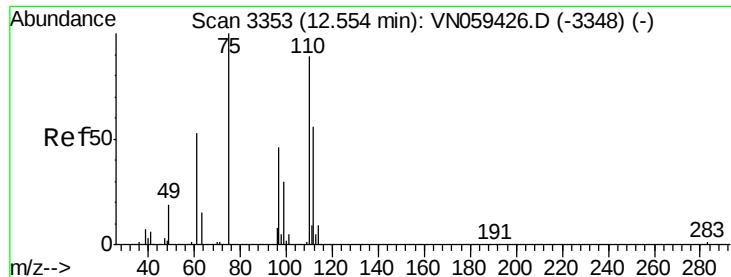
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

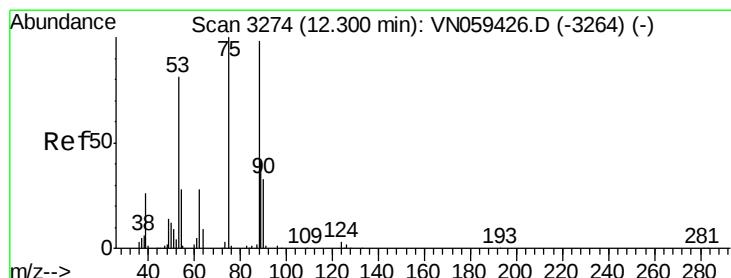
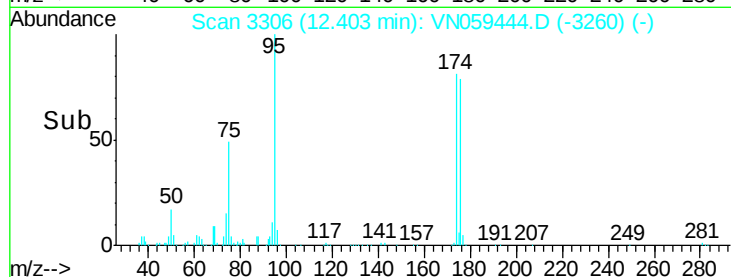
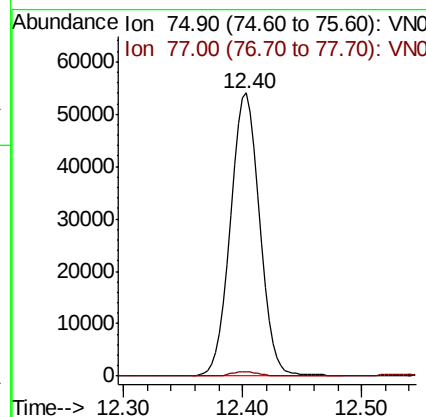
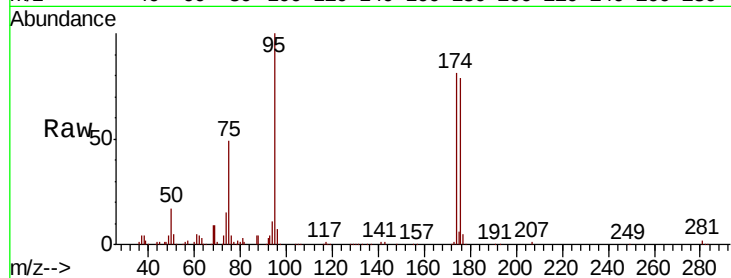




#76
 1,2,3-Trichloropropane
 Concen: 24.807 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN059444.D
 Acq: 29 Nov 2019 13:39

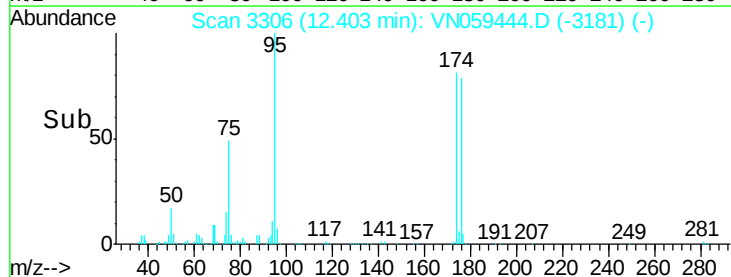
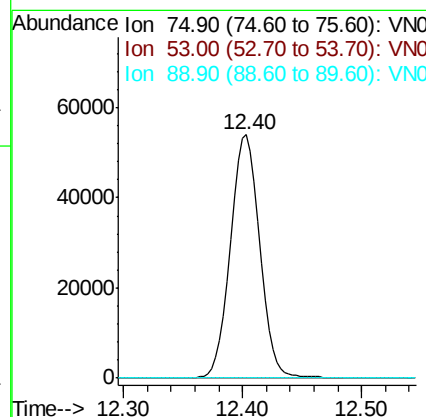
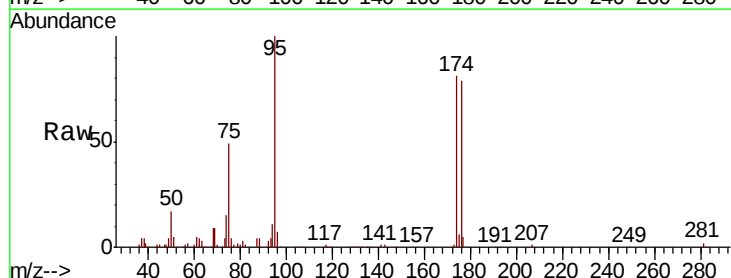
Instrument :
 MSVOA_N
 ClientSampleId :

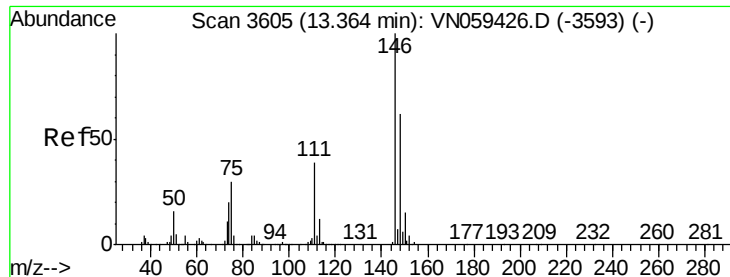
Tot Ion: 75 Resp: 92185
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.740 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN059444.D
 Acq: 29 Nov 2019 13:39

Tgt Ion: 75 Resp: 92185
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.2 99.4#
 89 0.0 33.9 50.9#





#88

1,4-Dichlorobenzene

Concen: 0.234 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN059444.D

Acq: 29 Nov 2019 13:39

Instrument :

MSVOA_N

ClientSampled :

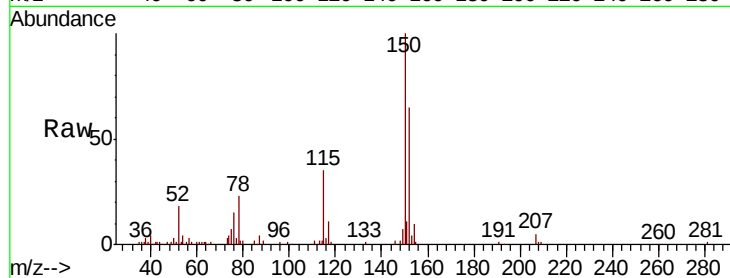
Tot Ion:146 Resp: 1238

Ion Ratio Lower Upper

146 100

111 204.6 19.9 59.7#

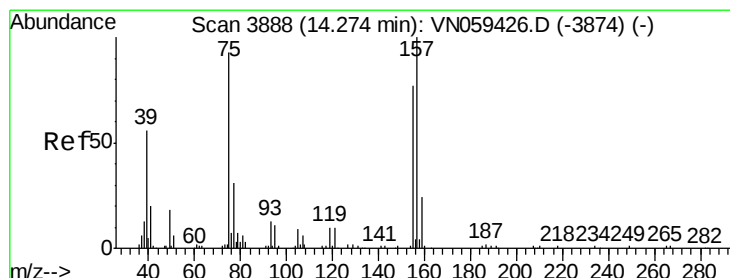
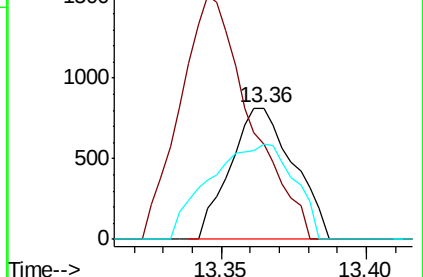
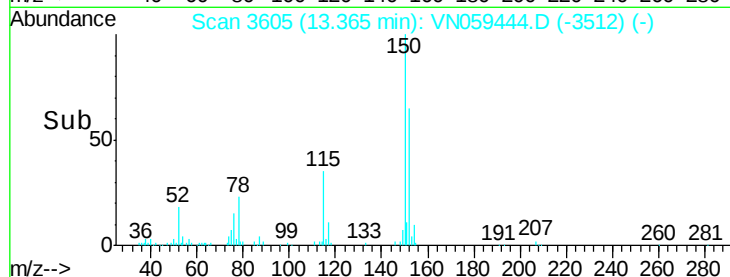
148 96.7 31.6 95.0#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3884

Delta R.T. -0.01 min

Lab File: VN059444.D

Acq: 29 Nov 2019 13:39

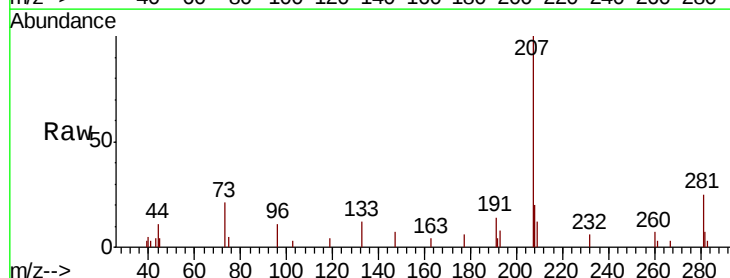
Tgt Ion: 75 Resp: 610

Ion Ratio Lower Upper

75 100

155 0.0 41.9 125.8#

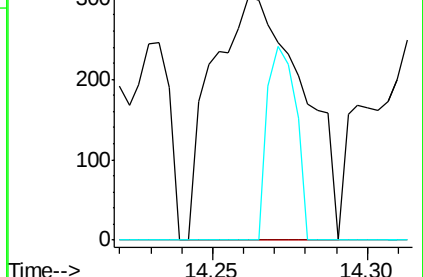
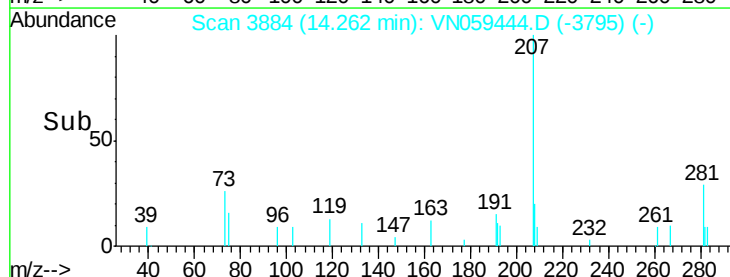
157 25.4 54.1 162.3#

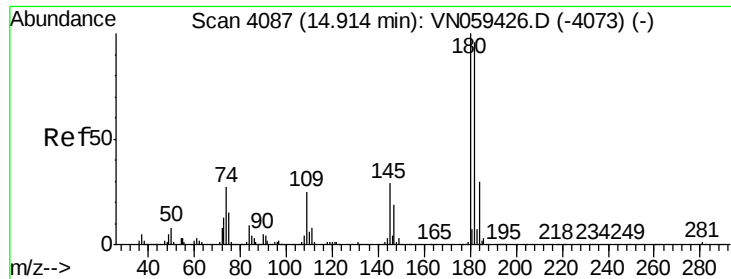


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

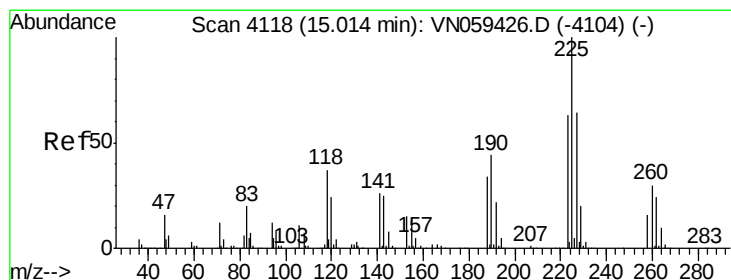
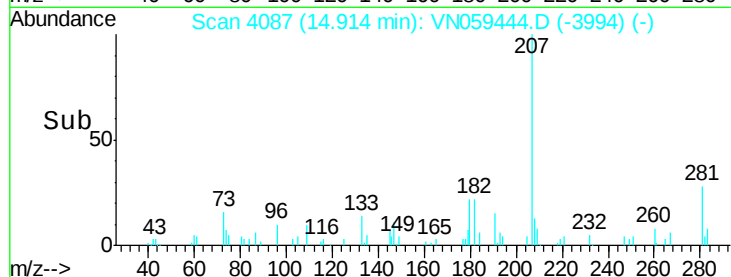
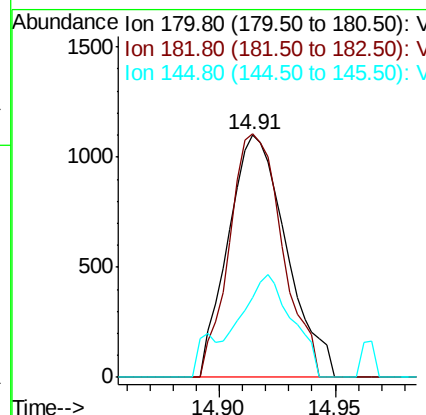
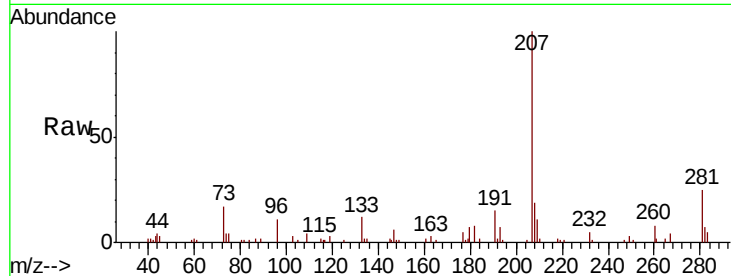




#93
 1,2,4-Trichlorobenzene
 Concen: 0.598 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059444.D
 Acq: 29 Nov 2019 13:39

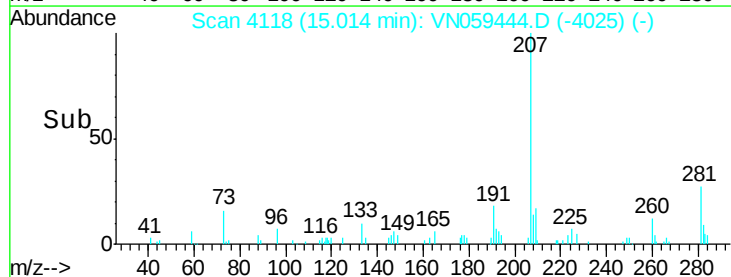
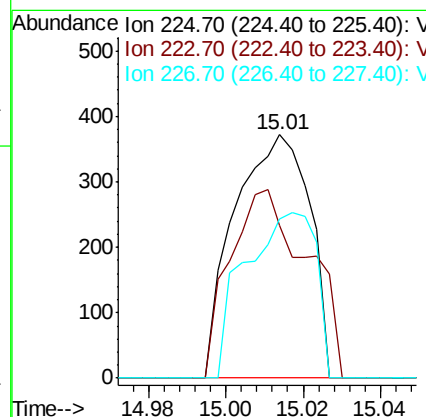
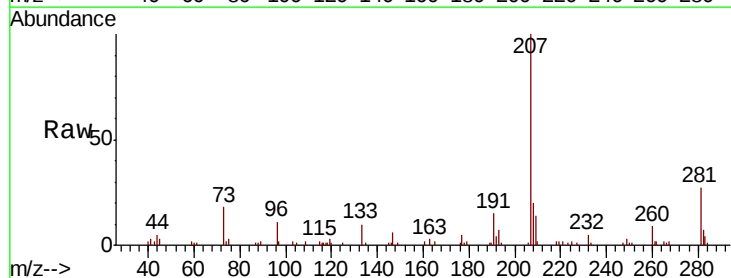
Instrument :
 MSVOA_N
 ClientSampled :

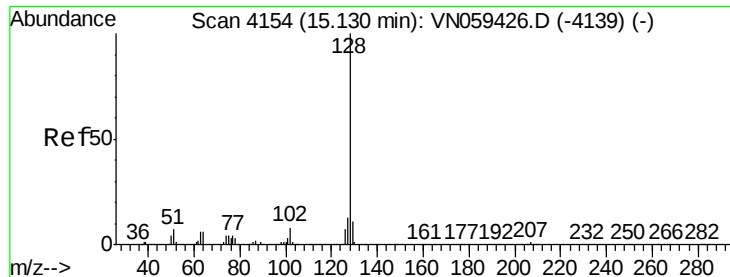
Tot Ion:180 Resp: 1923
 Ion Ratio Lower Upper
 180 100
 182 91.4 47.3 142.0
 145 36.6 14.8 44.4



#94
 Hexachlorobutadiene
 Concen: 0.255 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN059444.D
 Acq: 29 Nov 2019 13:39

Tgt Ion:225 Resp: 502
 Ion Ratio Lower Upper
 225 100
 223 79.7 31.5 94.5
 227 64.3 31.9 95.7





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059444.D

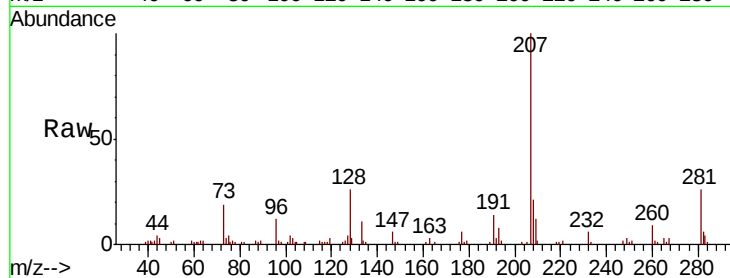
Acq: 29 Nov 2019 13:39

Instrument :

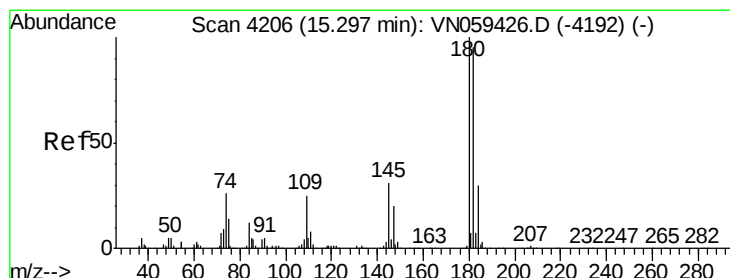
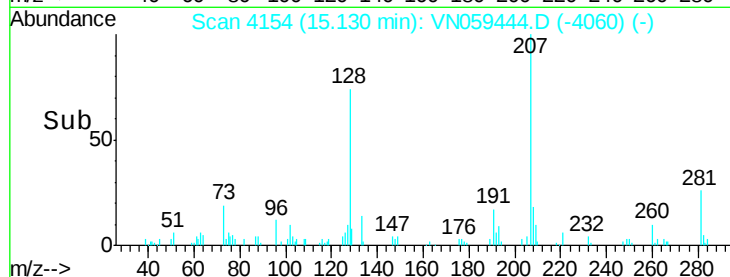
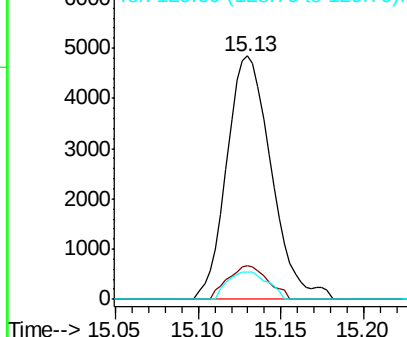
MSVOA_N

ClientSampleId :

Tot Ion:	128	Resp:	9040
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.1	15.1
129	10.0	8.6	12.8



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



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

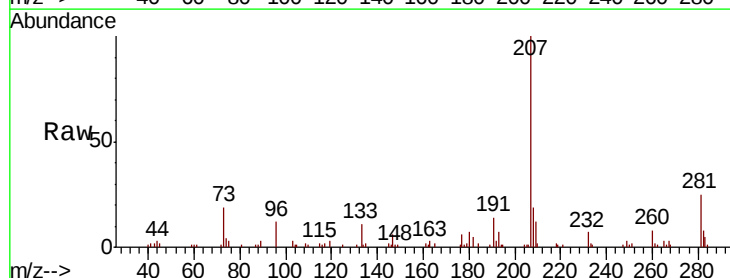
RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN059444.D

Acq: 29 Nov 2019 13:39

Tgt Ion:	180	Resp:	2770
Ion	Ratio	Lower	Upper
180	100		
182	81.6	47.5	142.6
145	47.6	15.7	47.1#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

