

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111119\
 Data File : VN059155.D
 Acq On : 11 Nov 2019 13:03
 Operator : JC/SP
 Sample : K5769-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LTM-RB-03-SRI4

Quant Time: Nov 12 00:41:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	454452	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	697741	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	591569	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	203103	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	292441	52.35	ug/l	0.00
Spiked Amount			Recovery	=	104.70%	
35) Dibromofluoromethane	7.57	113	218982	52.56	ug/l	0.00
Spiked Amount			Recovery	=	105.12%	
50) Toluene-d8	10.08	98	859479	52.37	ug/l	0.00
Spiked Amount			Recovery	=	104.74%	
62) 4-Bromofluorobenzene	12.40	95	264298	44.67	ug/l	0.00
Spiked Amount			Recovery	=	89.34%	

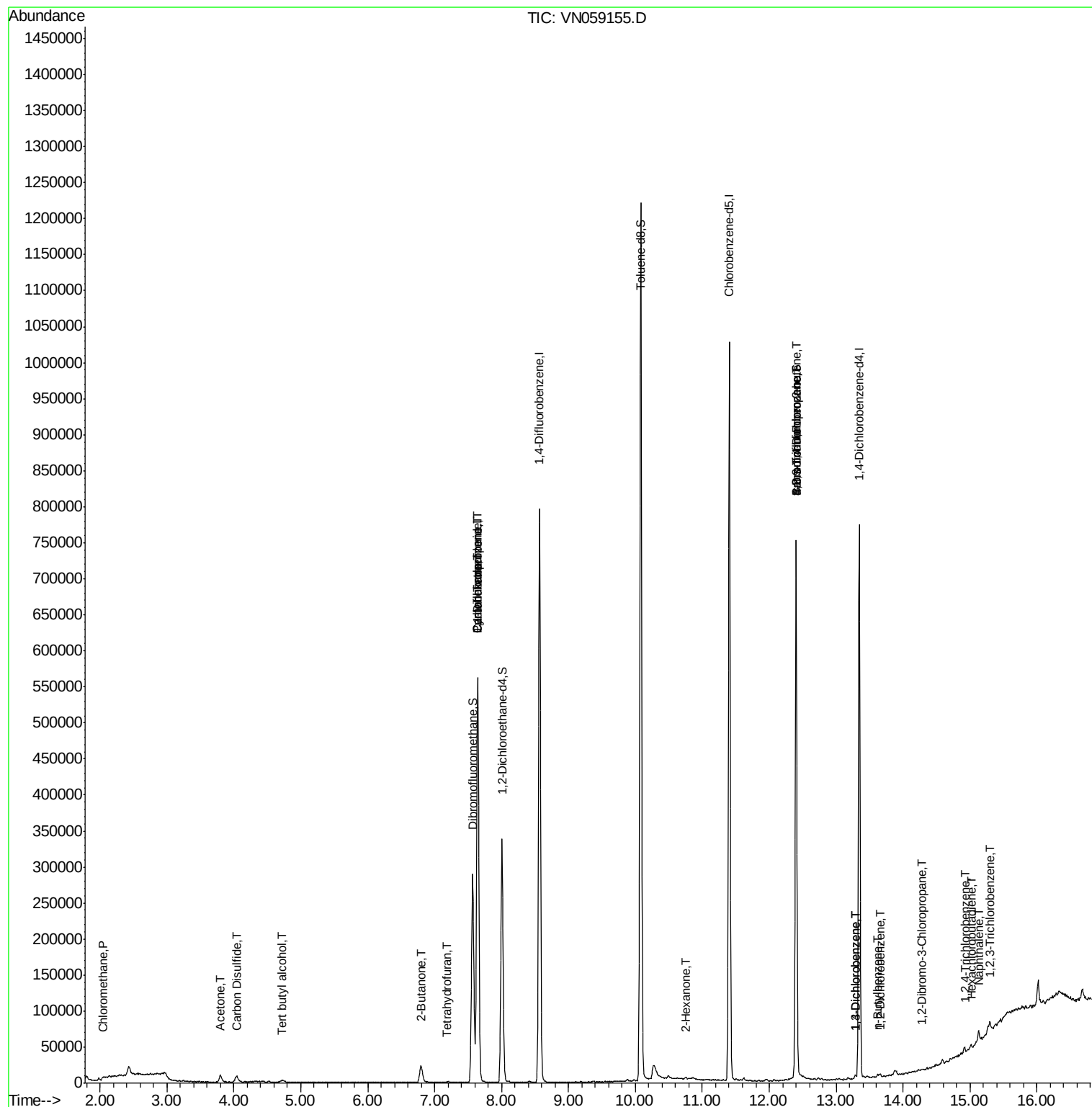
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1444	0.232	ug/l #	85
11) Tert butyl alcohol	4.73	59	1241	1.166	ug/l #	72
16) Acetone	3.80	43	13777	4.742	ug/l	97
17) Carbon Disulfide	4.03	76	4897	0.372	ug/l #	89
25) 2-Butanone	6.79	43	1130	0.295	ug/l #	50
29) Tetrahydrofuran	7.18	42	547	0.225	ug/l #	35
31) Cyclohexane	7.64	56	9733	1.119	ug/l #	5
36) 1,1-Dichloropropene	7.64	75	34543	5.297	ug/l #	50
38) Carbon Tetrachloride	7.64	117	44191	6.808	ug/l #	16
59) 2-Hexanone	10.75	43	2014	0.401	ug/l	64
71) Bromoform	12.40	173	1046	0.311	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	134637	29.117	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	134637	76.906	ug/l #	13
87) 1,3-Dichlorobenzene	13.28	146	1509	0.237	ug/l	96
88) 1,4-Dichlorobenzene	13.28	146	1509	0.237	ug/l	96
89) n-Butylbenzene	13.62	91	2299	0.212	ug/l	94
91) 1,2-Dichlorobenzene	13.66	146	1598	0.256	ug/l	89
92) 1,2-Dibromo-3-Chloropropan	14.27	75	312	0.337	ug/l #	37
93) 1,2,4-Trichlorobenzene	14.91	180	2841	3.750	ug/l	99
94) Hexachlorobutadiene	15.01	225	519	0.241	ug/l #	63
95) Naphthalene	15.13	128	11342	4.057	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	3772	1.076	ug/l	92

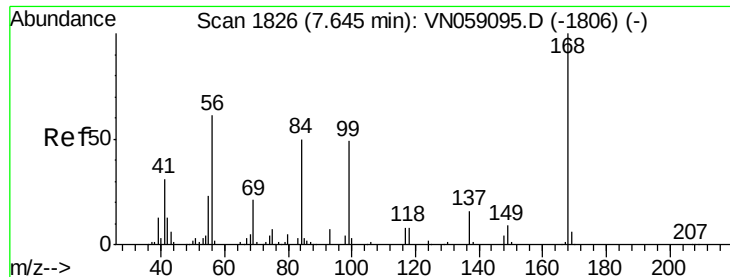
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 07 04:00:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

Instrument :

MSVOA_N

ClientSampleId :

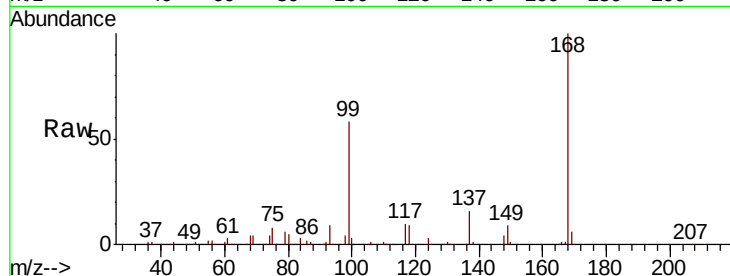
LTM-RB-03-SRI4

Tot Ion:168 Resp: 454452

Ion Ratio Lower Upper

168 100

99 57.7 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VN059095.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN059095.D (-1806) (-)

7.64

200000

150000

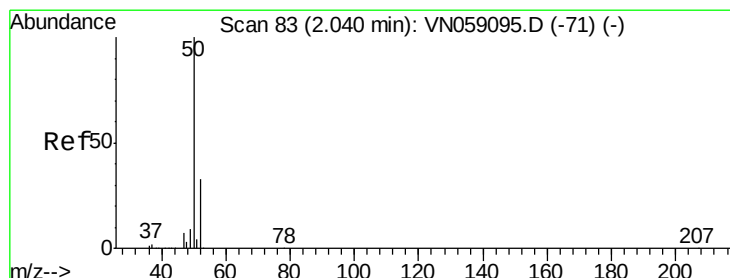
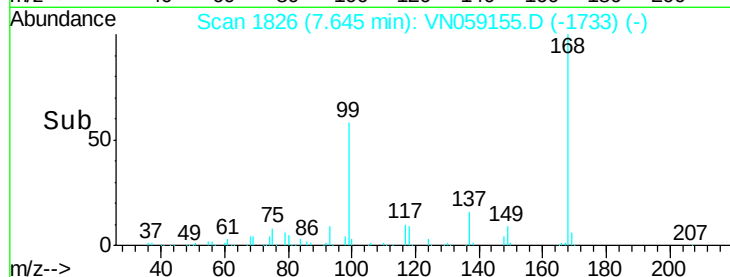
100000

50000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.232 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN059155.D

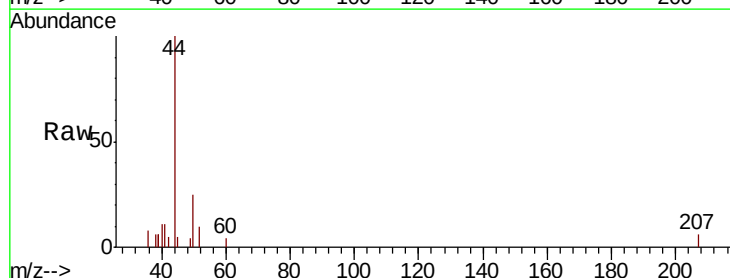
Acq: 11 Nov 2019 13:03

Tgt Ion: 50 Resp: 1444

Ion Ratio Lower Upper

50 100

52 41.1 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN059095.D (-71) (-)

Ion 51.90 (51.60 to 52.60): VN059095.D (-71) (-)

2.04

1000

800

600

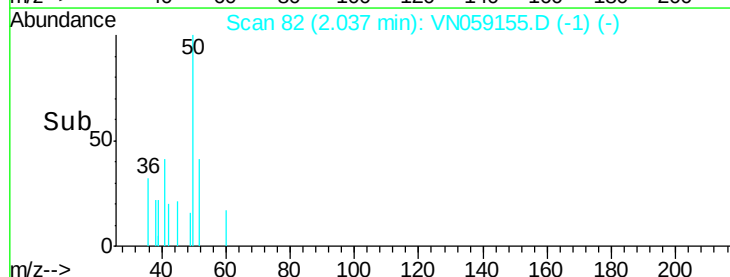
400

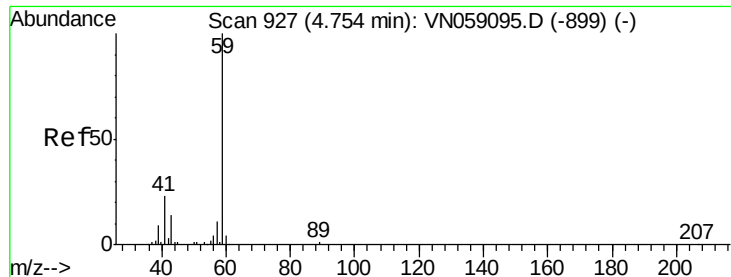
200

0

2.00 2.02 2.04 2.06 2.08

Time-->



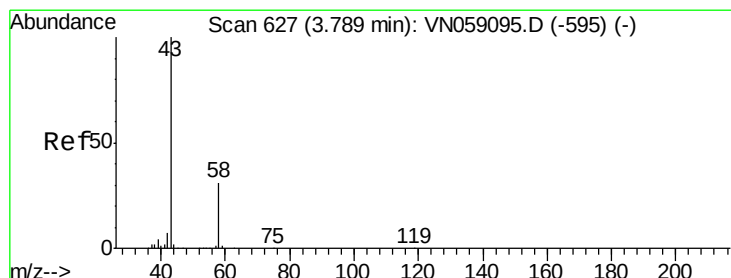
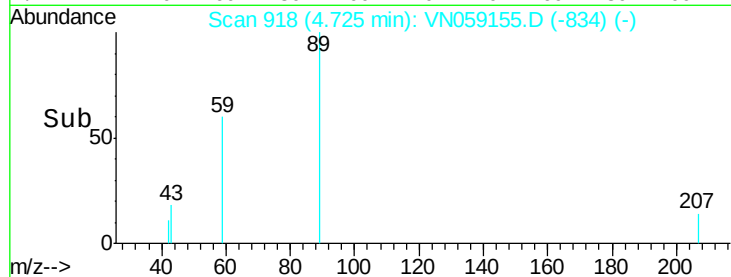
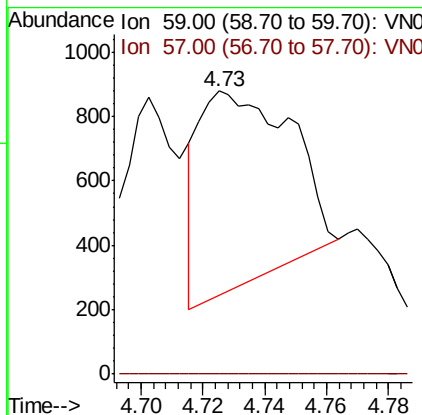
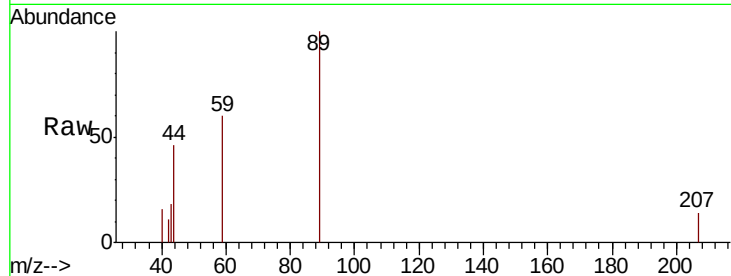


#11

Tert butyl alcohol
 Concen: 1.166 ug/l
 RT: 4.73 min Scan# 918
 Delta R.T. -0.03 min
 Lab File: VN059155.D
 Acq: 11 Nov 2019 13:03

Instrument :
 MSVOA_N
 ClientSampleId :
 LTM-RB-03-SRI4

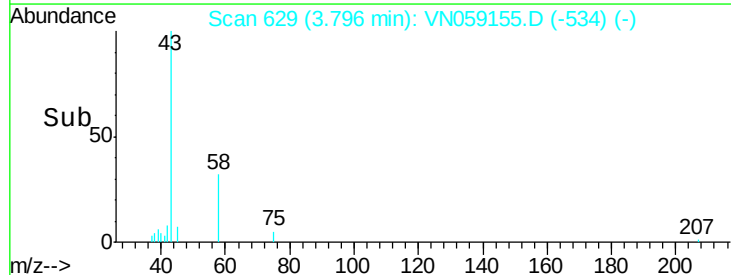
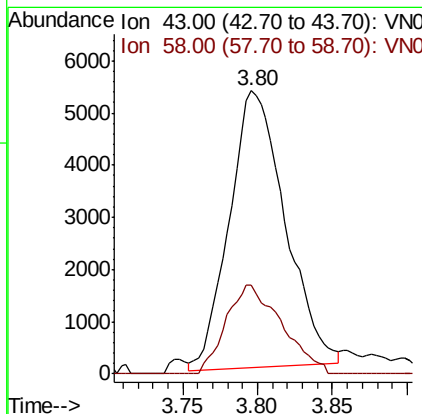
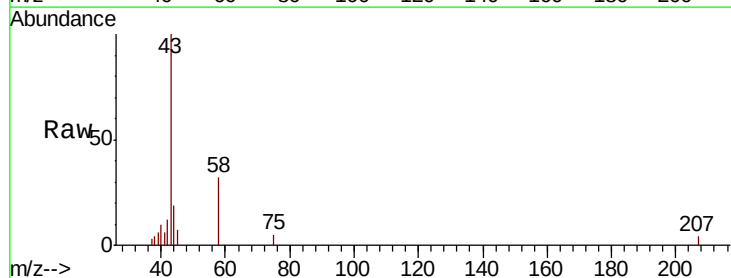
Tot Ion: 59 Resp: 1241
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

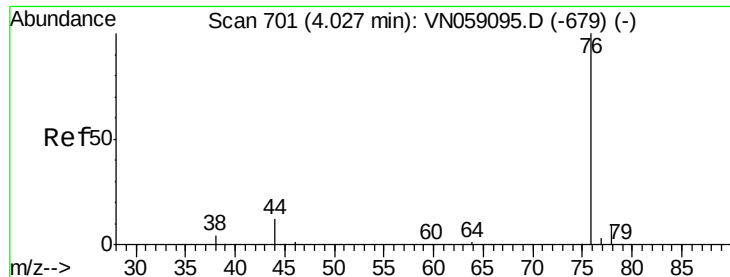


#16

Acetone
 Concen: 4.742 ug/l
 RT: 3.80 min Scan# 629
 Delta R.T. 0.01 min
 Lab File: VN059155.D
 Acq: 11 Nov 2019 13:03

Tgt Ion: 43 Resp: 13777
 Ion Ratio Lower Upper
 43 100
 58 32.7 24.9 37.3

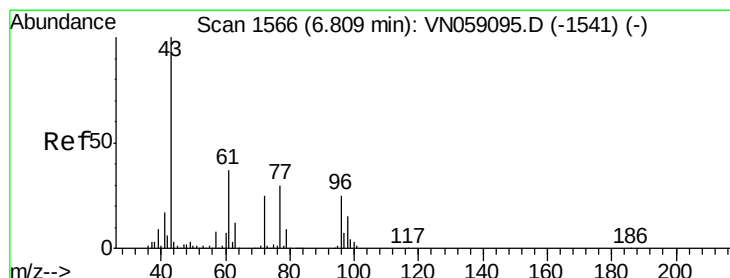
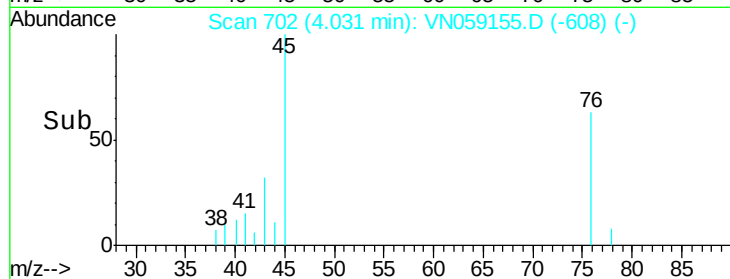
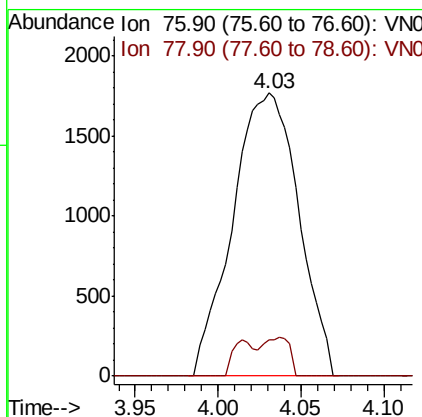
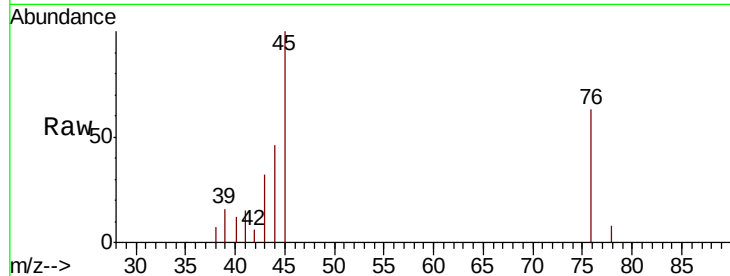




#17
Carbon Disulfide
Concen: 0.372 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

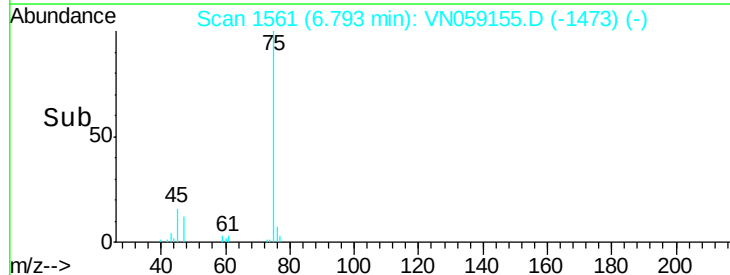
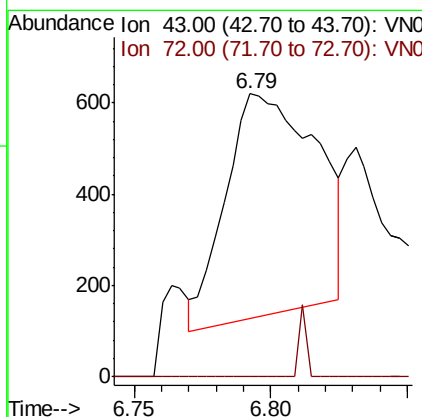
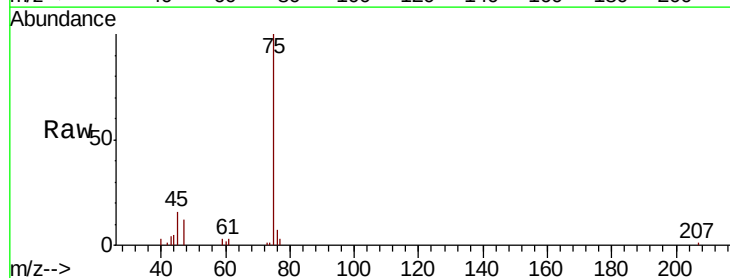
Instrument :
MSVOA_N
ClientSampleId :
LTM-RB-03-SRI4

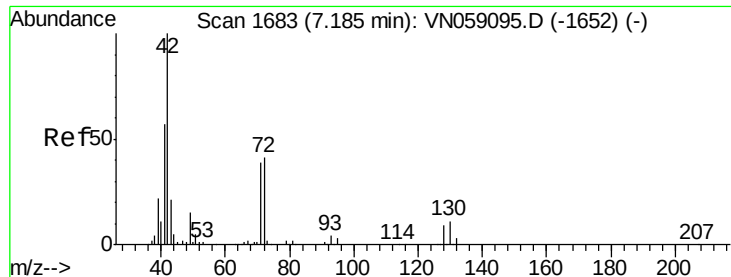
Tot Ion: 76 Resp: 4897
Ion Ratio Lower Upper
76 100
78 13.1 7.4 11.0#



#25
2-Butanone
Concen: 0.295 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. -0.02 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Tgt Ion: 43 Resp: 1130
Ion Ratio Lower Upper
43 100
72 0.0 20.3 30.5#





#29

Tetrahydrofuran

Concen: 0.225 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

Instrument :

MSVOA_N

ClientSampleId :

LTM-RB-03-SRI4

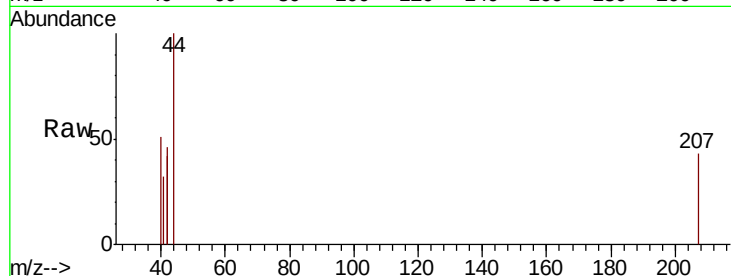
Tot Ion: 42 Resp: 547

Ion Ratio Lower Upper

42 100

72 0.0 33.1 49.7#

71 0.0 30.9 46.3#



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

7.18

400

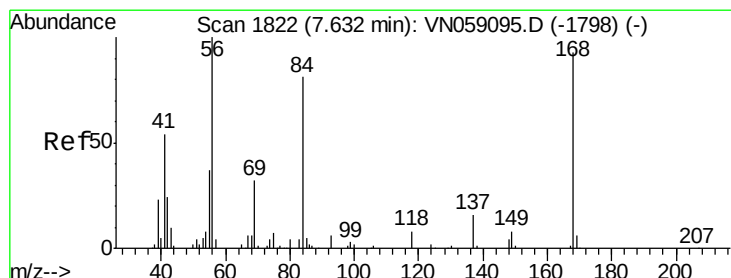
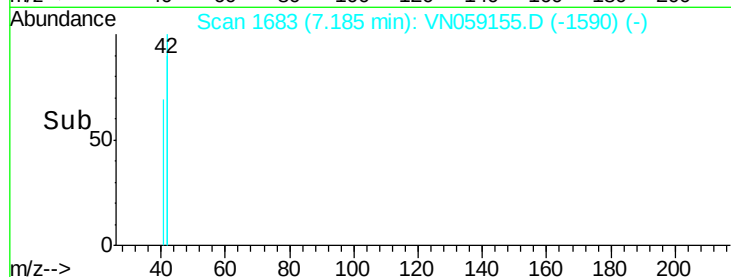
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 1.119 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

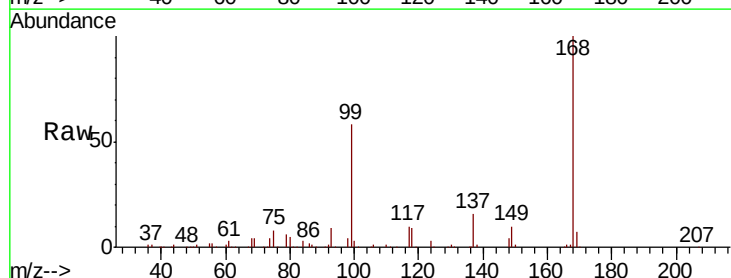
Tgt Ion: 56 Resp: 9733

Ion Ratio Lower Upper

56 100

69 161.5 25.8 38.8#

84 117.5 65.0 97.4#



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

7.64

8000

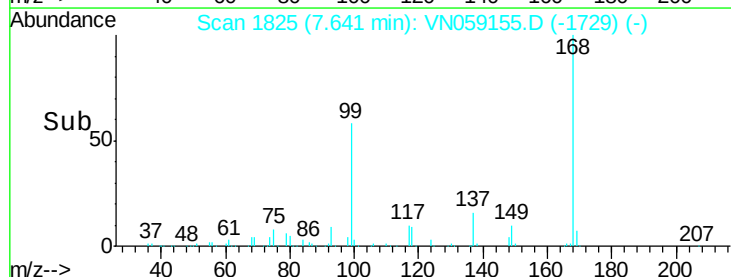
6000

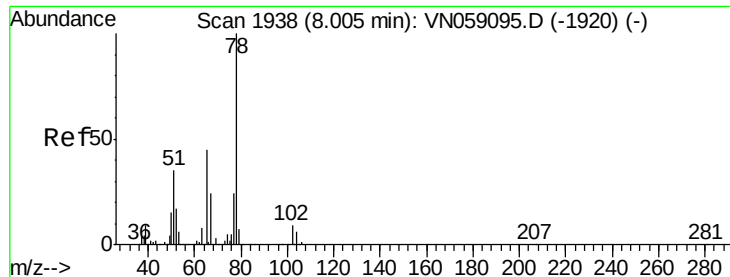
4000

2000

0

Time-->

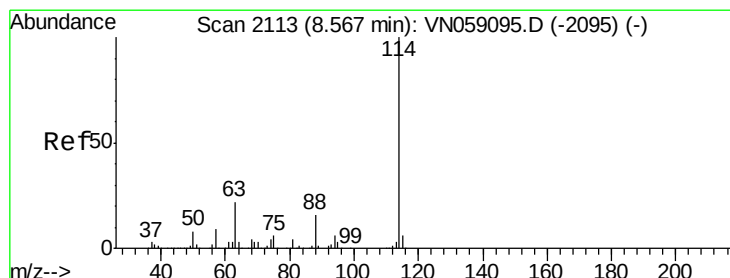
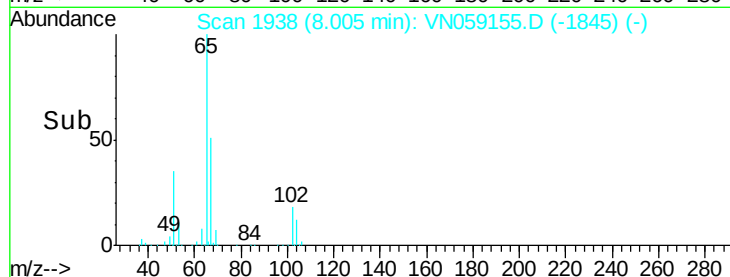
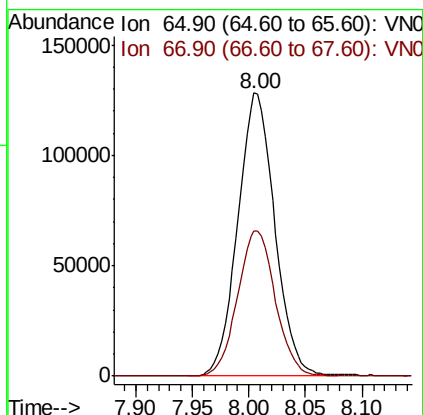
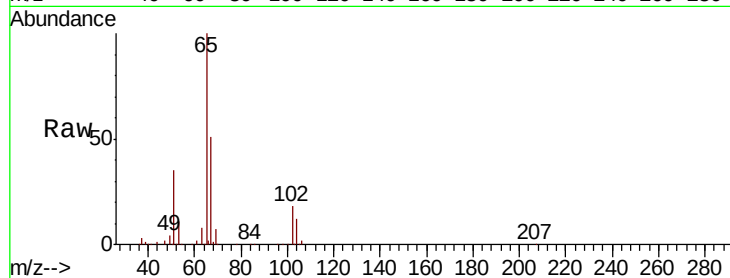




#33
 1,2-Dichloroethane-d4
 Concen: 52.349 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059155.D
 Acq: 11 Nov 2019 13:03

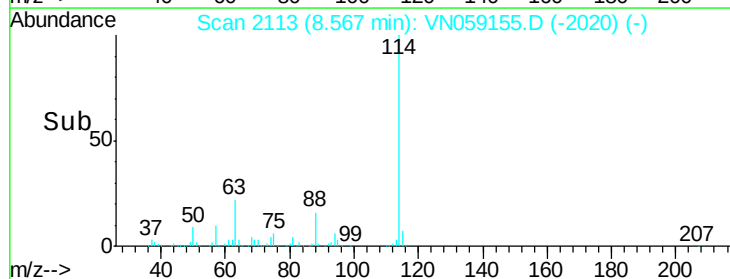
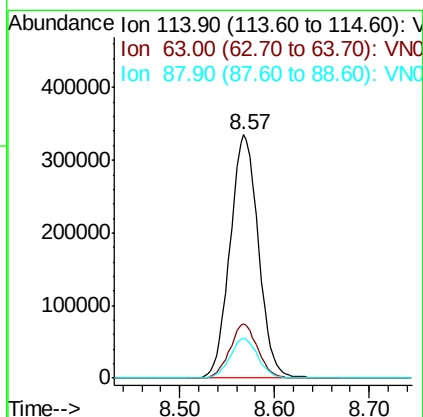
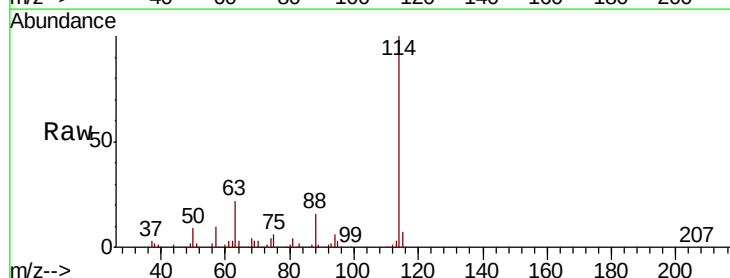
Instrument :
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 ClientSampleId :
 LTM-RB-03-SRI4

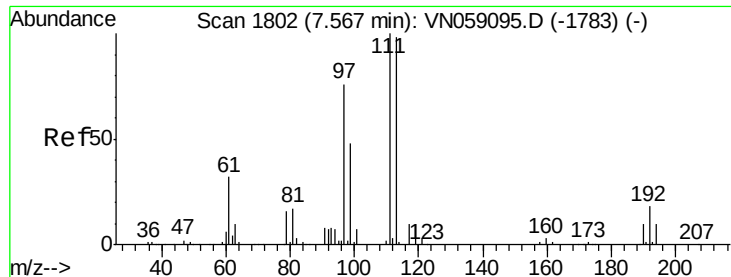
Tot Ion: 65 Resp: 292441
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059155.D
 Acq: 11 Nov 2019 13:03

Tgt Ion: 114 Resp: 697741
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.4
 88 16.4 0.0 32.2

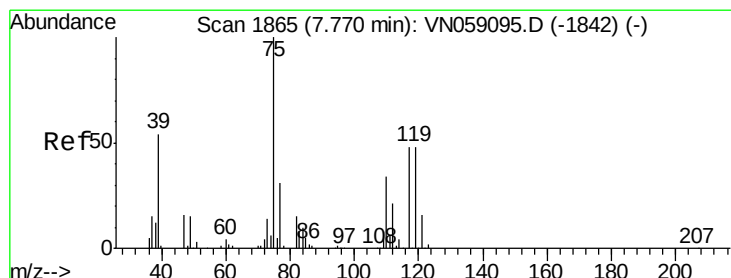
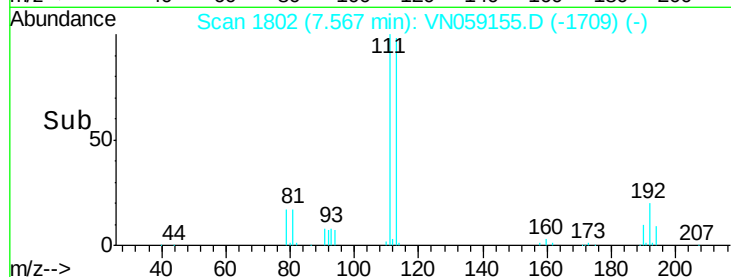
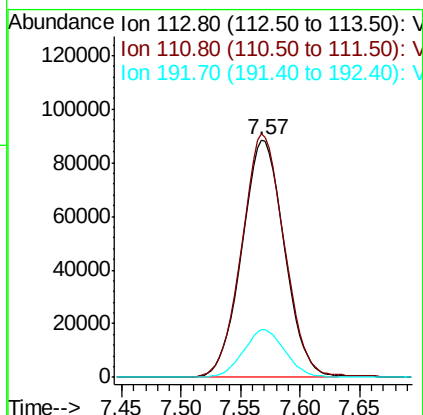
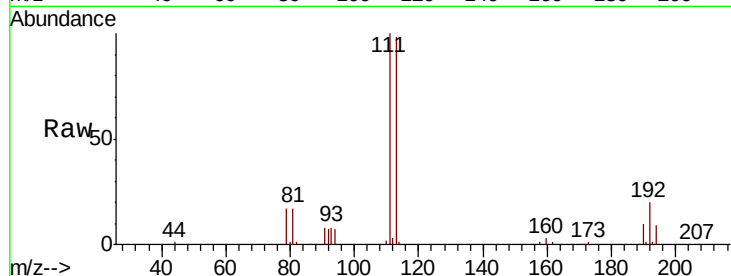




#35
 Dibromofluoromethane
 Concen: 52.562 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059155.D
 Acq: 11 Nov 2019 13:03

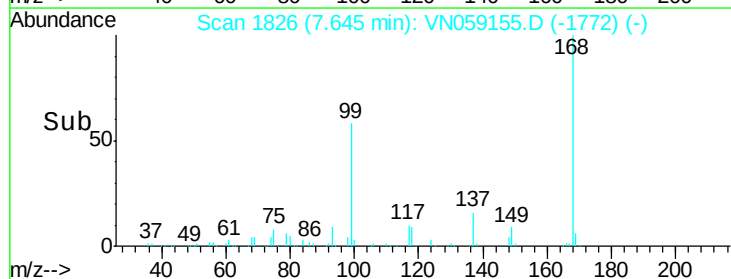
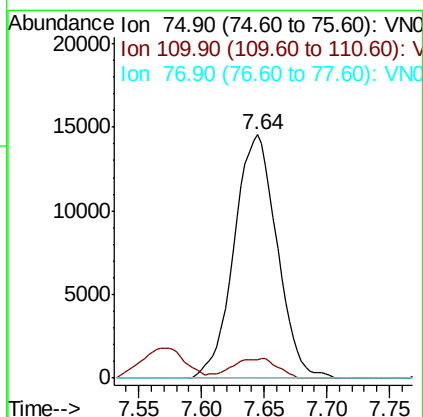
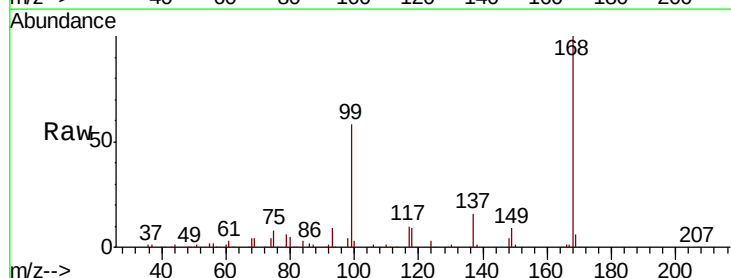
Instrument :
 MSVOA_N
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 LTM-RB-03-SRI4

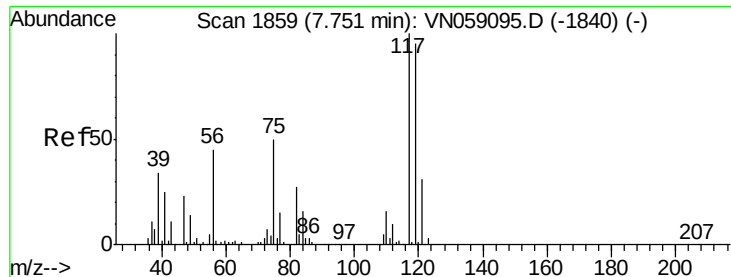
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.8	124.2
192	19.9	16.1	24.1



#36
 1,1-Dichloropropene
 Concen: 5.297 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059155.D
 Acq: 11 Nov 2019 13:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	17.1	51.2#
77	0.0	24.8	37.2#

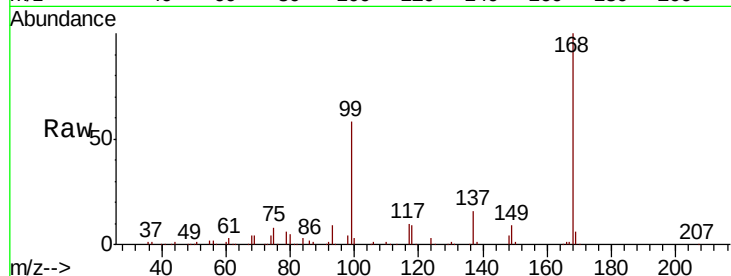




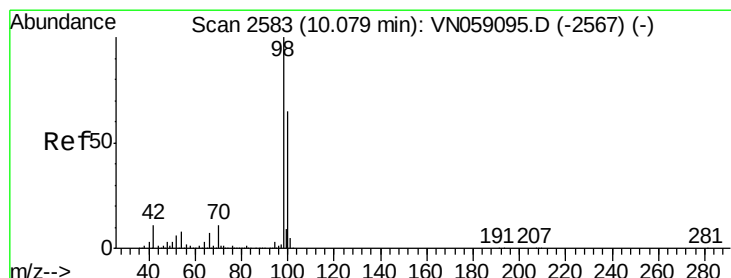
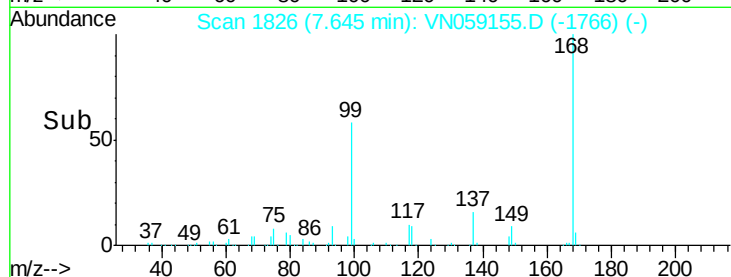
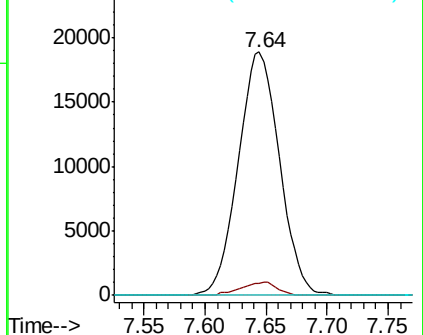
#38
Carbon Tetrachloride
Concen: 6.808 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Instrument :
MSVOA_N
ClientSampleId :
LTM-RB-03-SRI4

Tot Ion:117 Resp: 44191
Ion Ratio Lower Upper
117 100
119 4.8 75.6 113.4#
121 0.0 24.6 36.8#

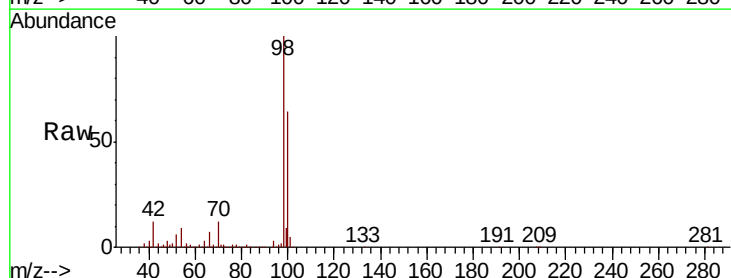


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

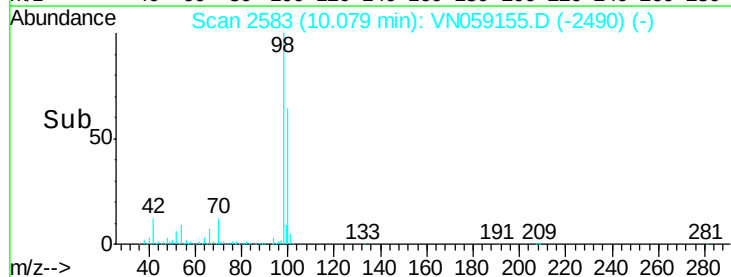
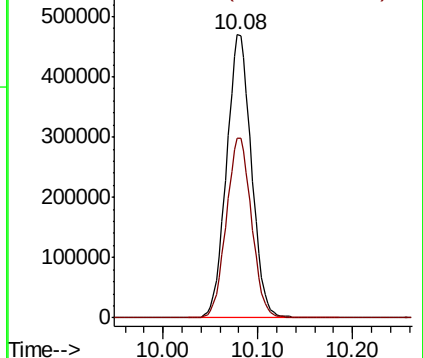


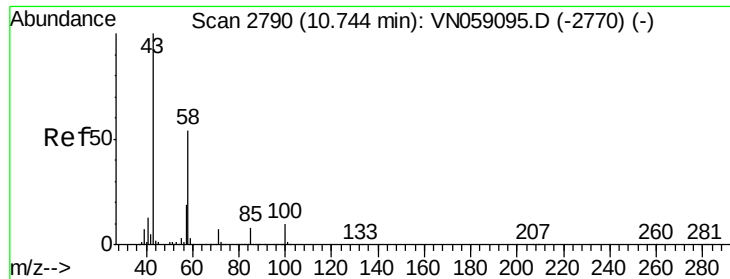
#50
Toluene-d8
Concen: 52.374 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Tgt Ion: 98 Resp: 859479
Ion Ratio Lower Upper
98 100
100 64.1 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN
Ion 100.00 (99.70 to 100.70): VN

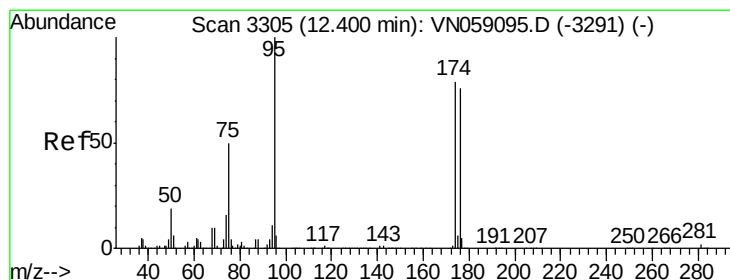
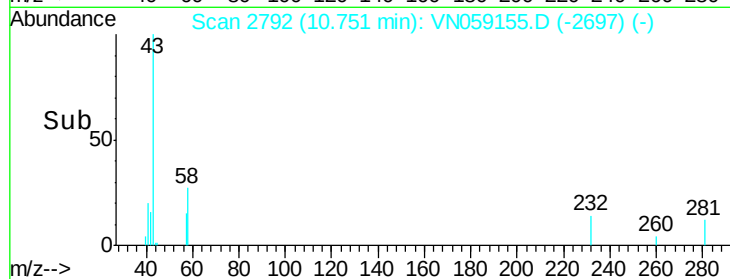
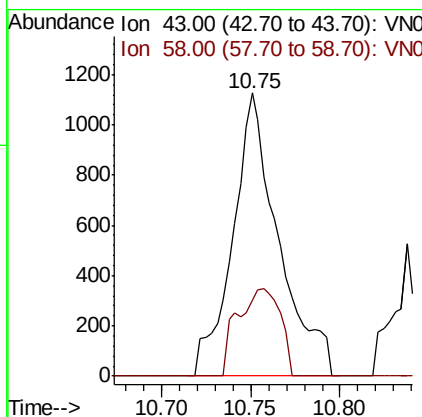
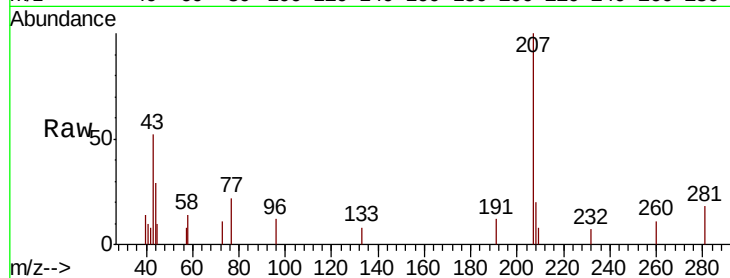




#59
2-Hexanone
Concen: 0.401 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

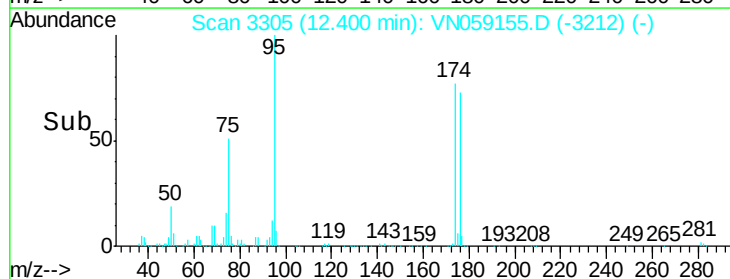
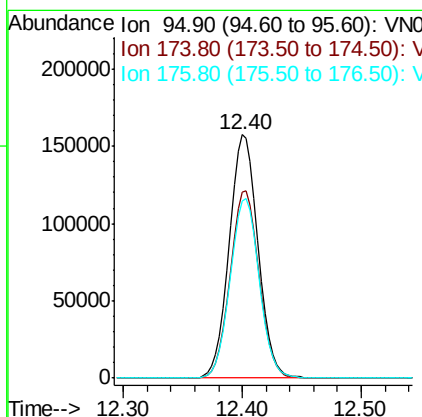
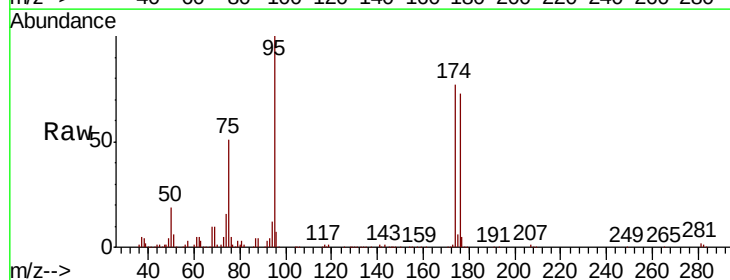
Instrument :
MSVOA_N
ClientSampleId :
LTM-RB-03-SRI4

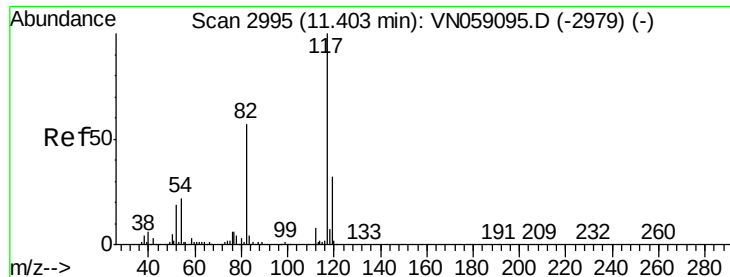
Tot Ion: 43 Resp: 2014
Ion Ratio Lower Upper
43 100
58 28.8 27.3 81.8



#62
4-Bromofluorobenzene
Concen: 44.668 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Tgt Ion: 95 Resp: 264298
Ion Ratio Lower Upper
95 100
174 77.4 0.0 158.2
176 74.6 0.0 151.8

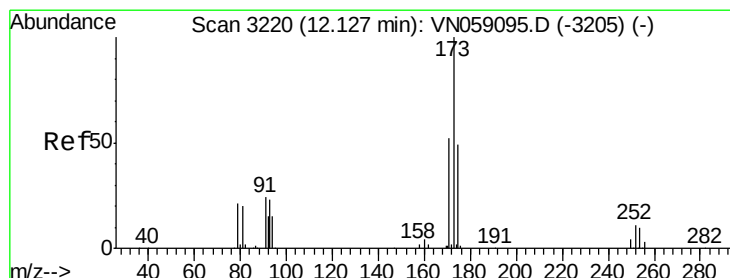
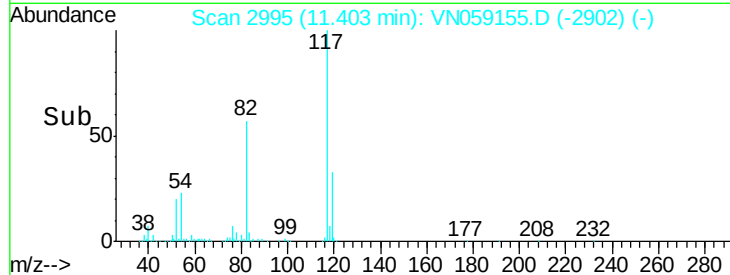
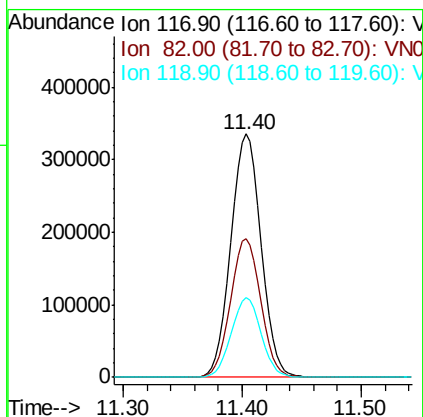
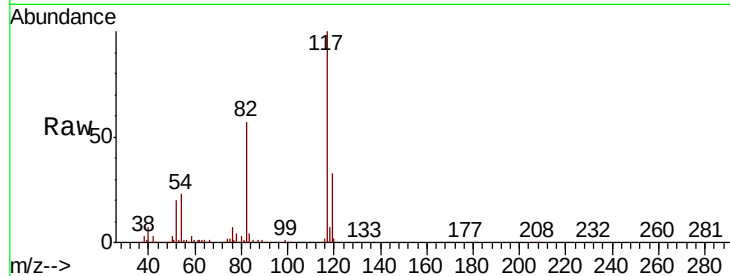




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

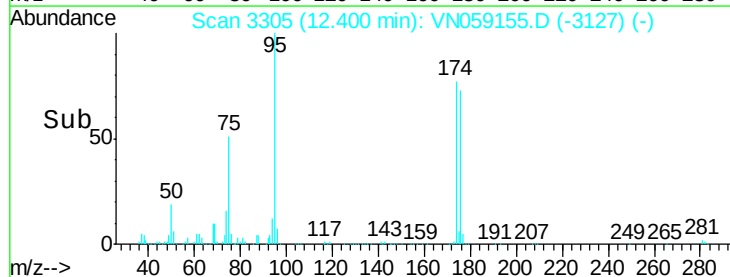
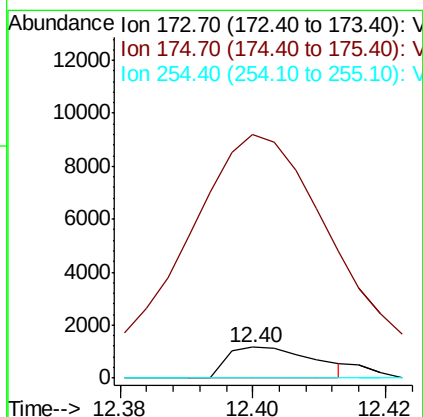
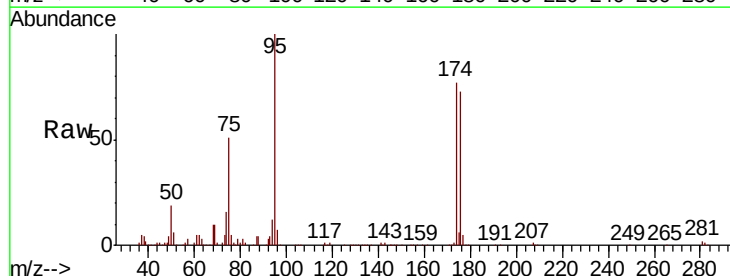
Instrument :
MSVOA_N
ClientSampled :
LTM-RB-03-SRI4

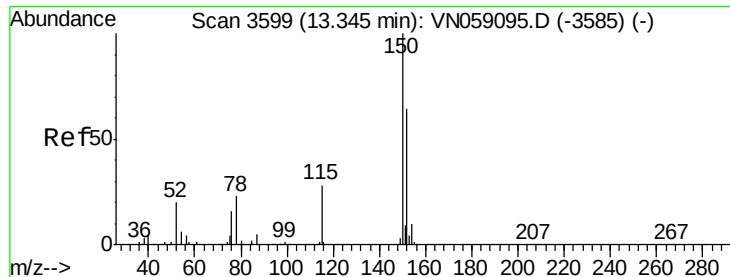
Tot Ion:117 Resp: 591569
Ion Ratio Lower Upper
117 100
82 57.2 45.8 68.8
119 32.5 25.8 38.6



#71
Bromoform
Concen: 0.311 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Tgt Ion:173 Resp: 1046
Ion Ratio Lower Upper
173 100
175 1250.1 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# 3599

Delta R.T. -0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

Instrument :

MSVOA_N

ClientSampleId :

LTM-RB-03-SRI4

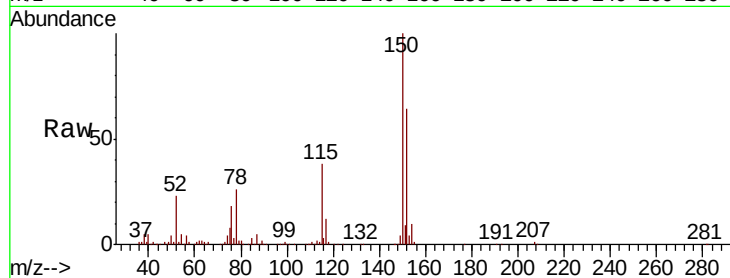
Tot Ion:152 Resp: 203103

Ion Ratio Lower Upper

152 100

115 60.3 29.4 88.2

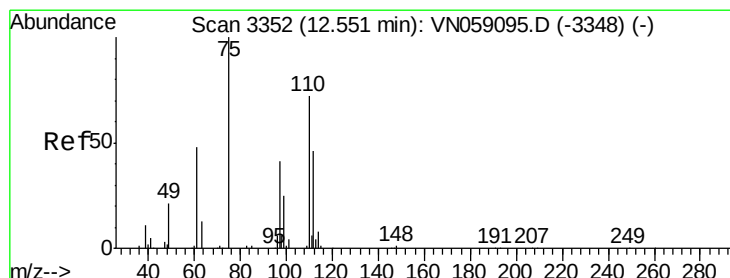
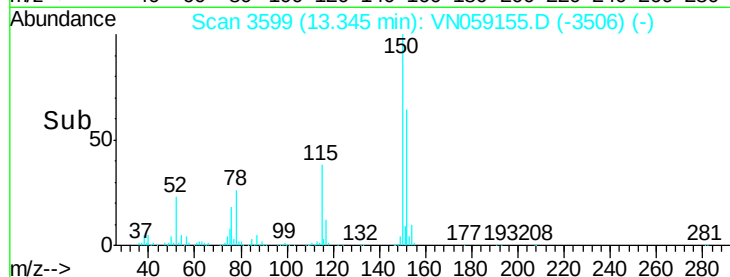
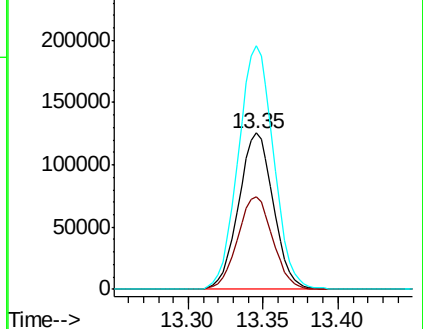
150 159.0 0.0 345.8



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: 29.117 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059155.D

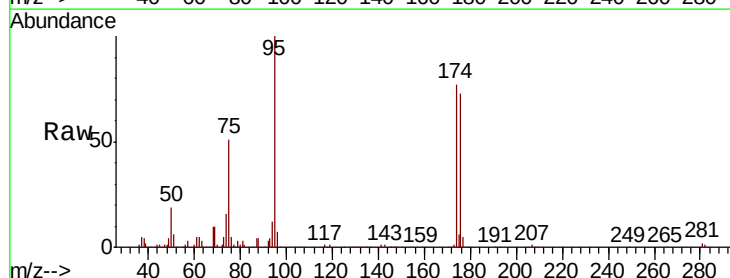
Acq: 11 Nov 2019 13:03

Tgt Ion: 75 Resp: 134637

Ion Ratio Lower Upper

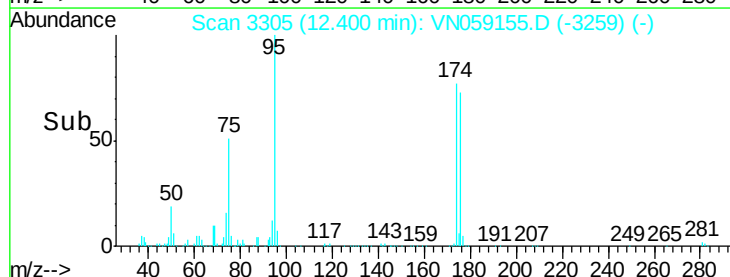
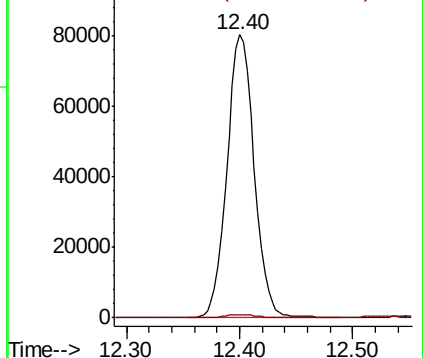
75 100

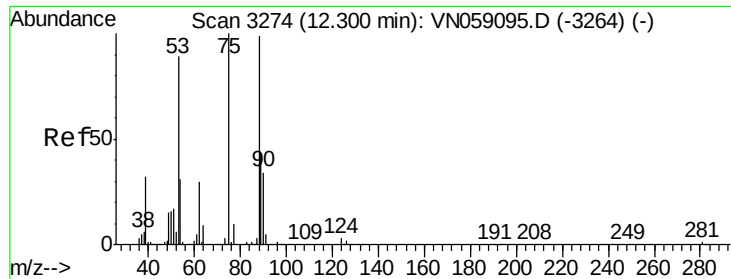
77 1.4 0.0 0.0#



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: 76.906 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

Instrument :

MSVOA_N

ClientSampleId :

LTM-RB-03-SRI4

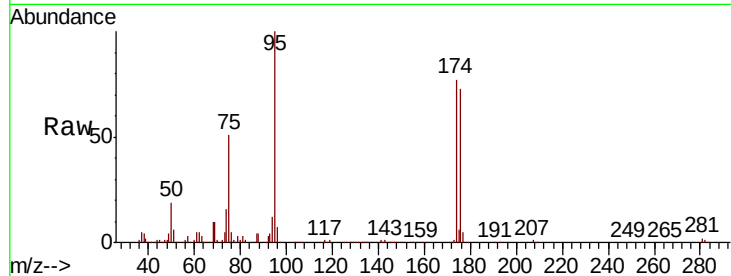
Tot Ion: 75 Resp: 134637

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

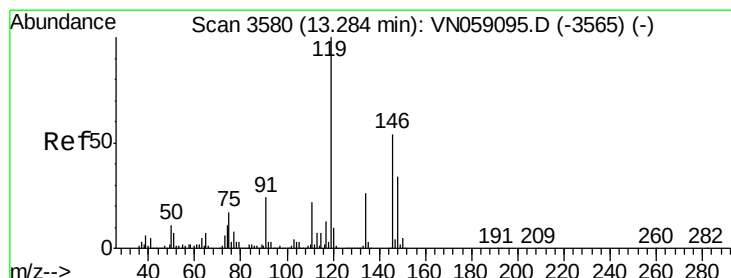
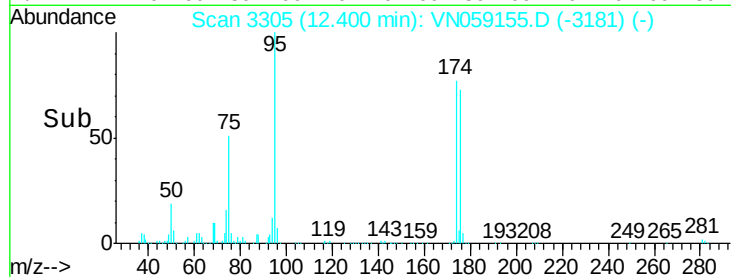
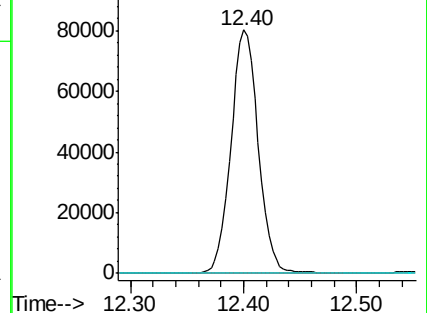
89 0.0 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VN059155.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN059155.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN059155.D (-3181) (-)



#87

1,3-Dichlorobenzene

Concen: 0.237 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

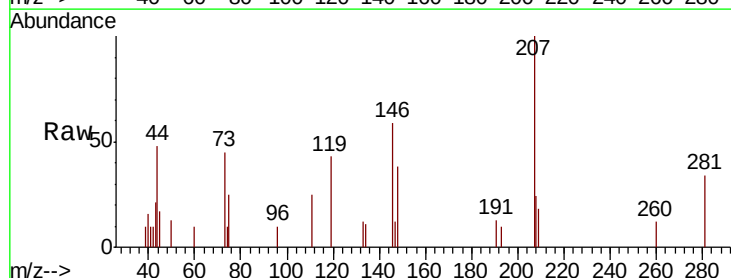
Tgt Ion: 146 Resp: 1509

Ion Ratio Lower Upper

146 100

111 38.4 20.4 61.3

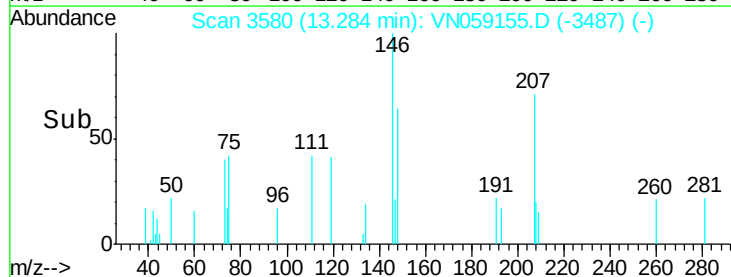
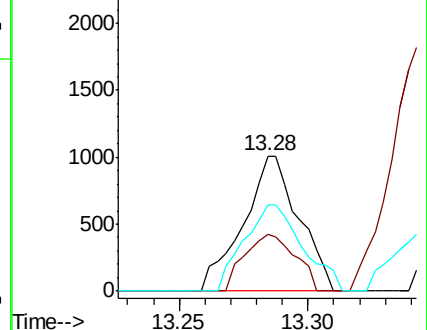
148 67.2 32.2 96.6

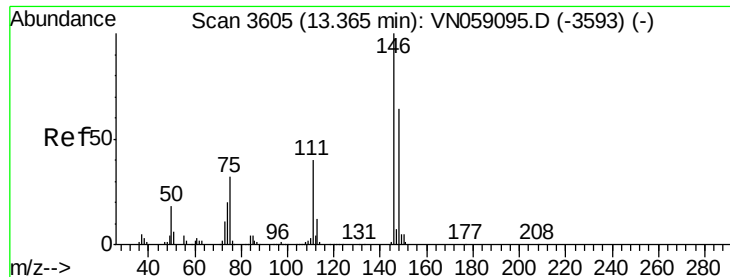


Abundance Ion 145.90 (145.60 to 146.60): VN059155.D (-3487) (-)

Ion 110.90 (110.60 to 111.60): VN059155.D (-3487) (-)

Ion 147.90 (147.60 to 148.60): VN059155.D (-3487) (-)





#88

1,4-Dichlorobenzene

Concen: 0.237 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.08 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

Instrument :

MSVOA_N

ClientSampleId :

LTM-RB-03-SRI4

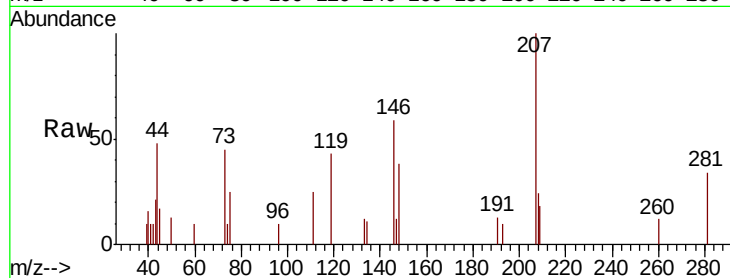
Tot Ion:146 Resp: 1509

Ion Ratio Lower Upper

146 100

111 38.4 20.3 60.9

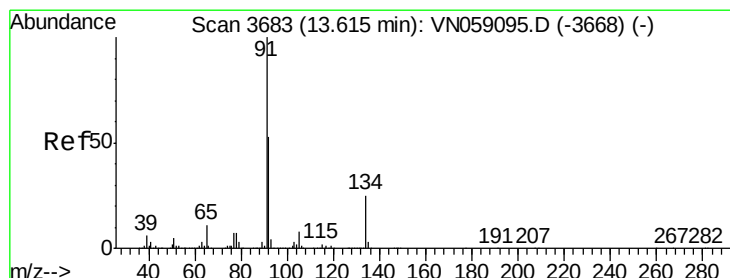
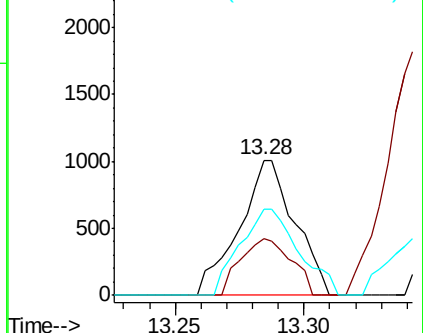
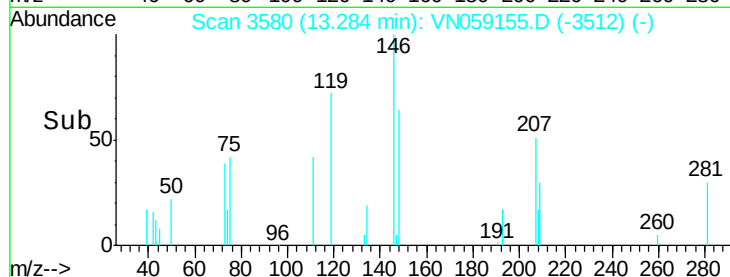
148 67.2 31.9 95.7



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



#89

n-Butylbenzene

Concen: 0.212 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

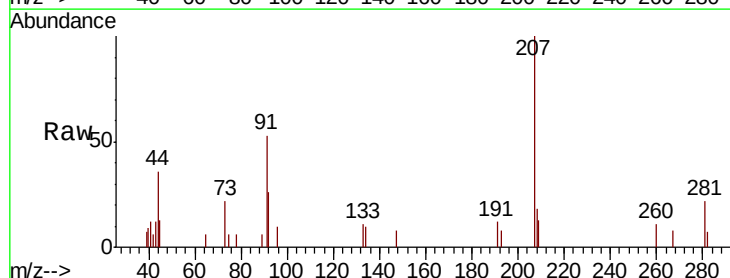
Tgt Ion: 91 Resp: 2299

Ion Ratio Lower Upper

91 100

92 58.2 26.1 78.3

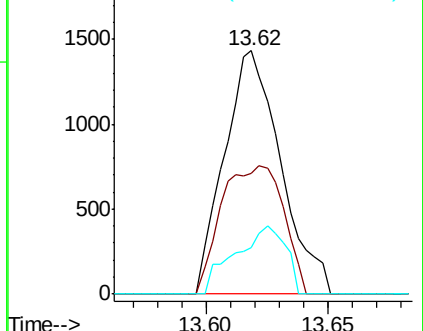
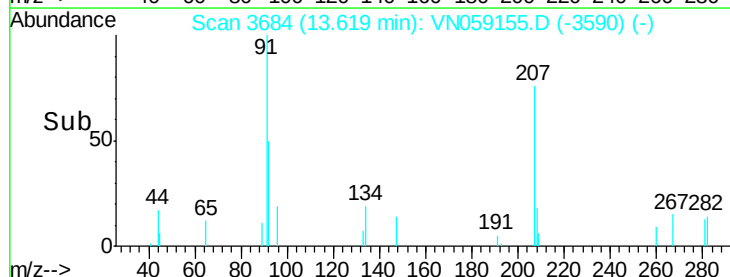
134 25.1 12.6 37.8

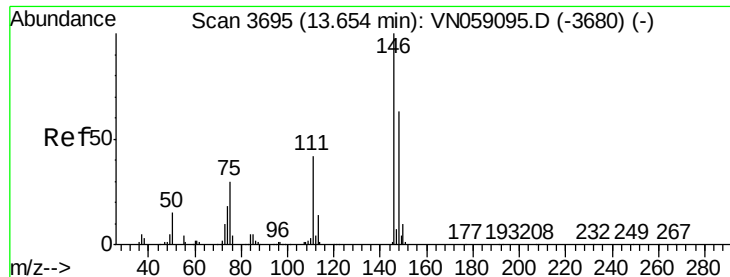


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#91

1,2-Dichlorobenzene

Concen: 0.256 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. 0.01 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

Instrument :

MSVOA_N

ClientSampled :

LTM-RB-03-SRI4

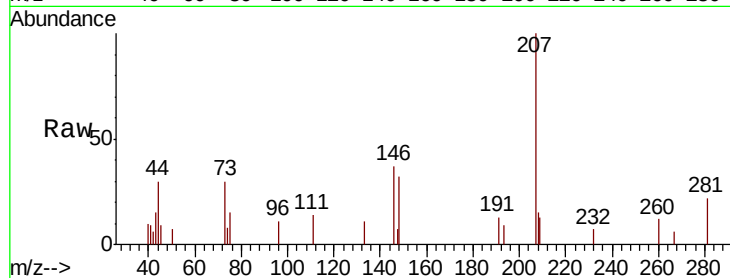
Tot Ion:146 Resp: 1598

Ion Ratio Lower Upper

146 100

111 37.4 21.2 63.6

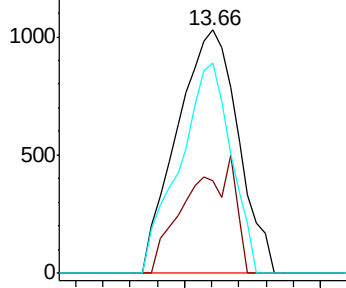
148 72.7 31.6 94.7



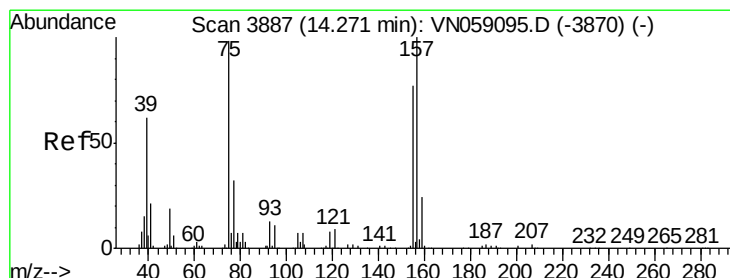
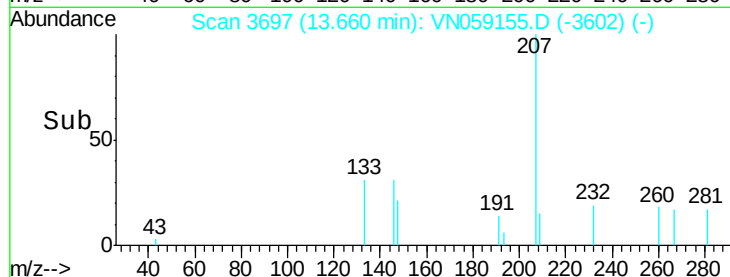
Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.337 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN059155.D

Acq: 11 Nov 2019 13:03

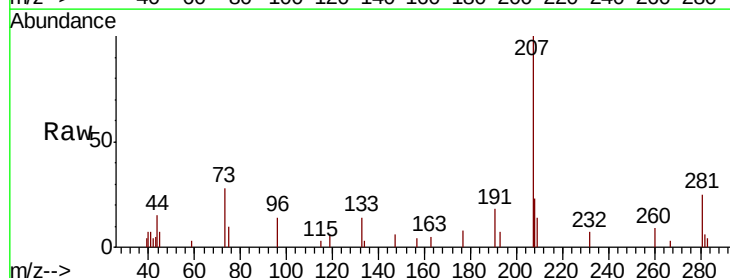
Tgt Ion: 75 Resp: 312

Ion Ratio Lower Upper

75 100

155 20.5 40.2 120.6#

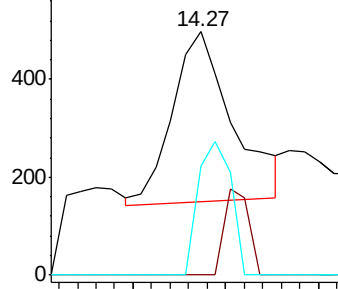
157 43.6 51.8 155.5#



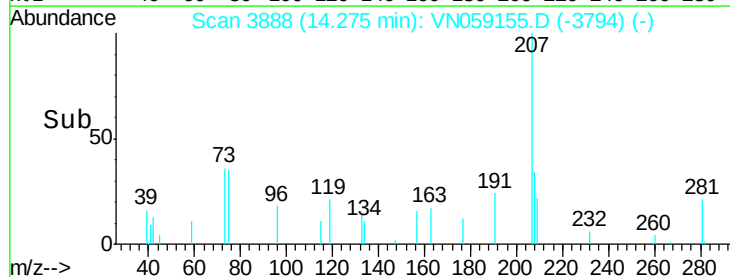
Abundance Ion 74.90 (74.60 to 75.60): V

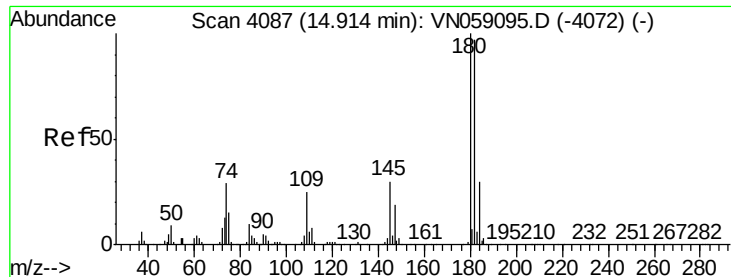
Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time-->

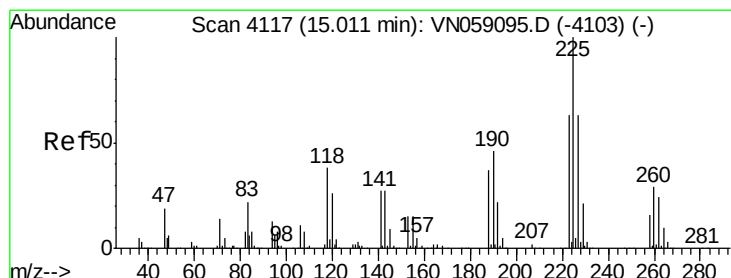
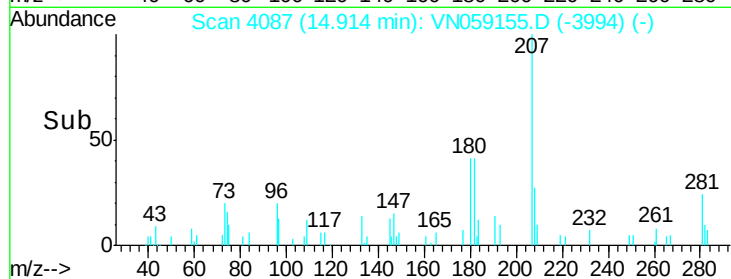
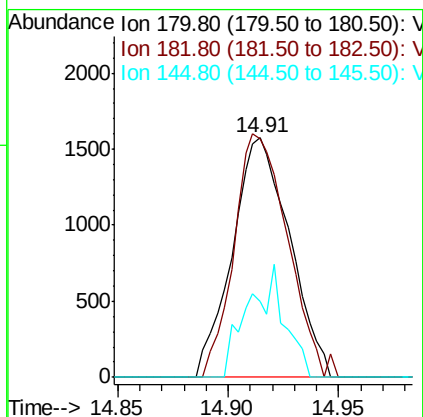
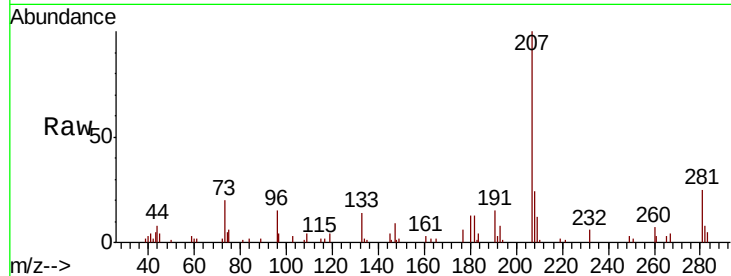




#93
1,2,4-Trichlorobenzene
Concen: 3.750 ug/l
RT: 14.91 min Scan# 4087
Delta R.T. 0.00 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

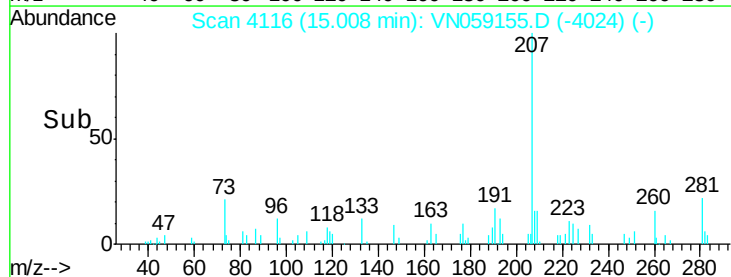
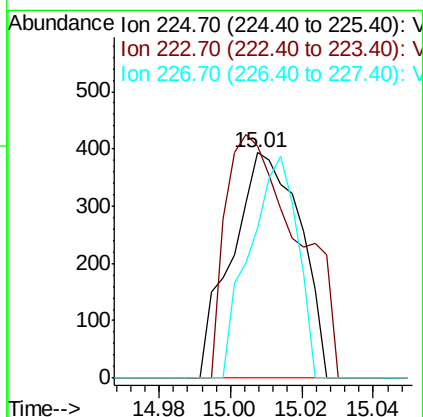
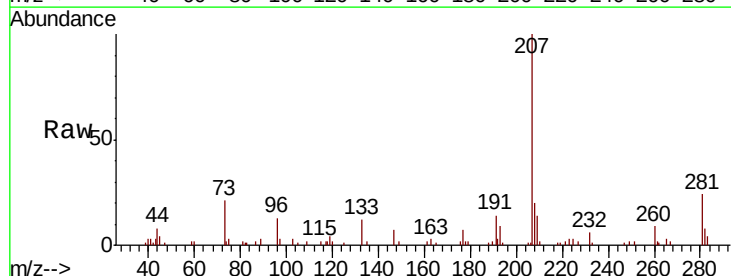
Instrument :
MSVOA_N
ClientSampleId :
LTM-RB-03-SRI4

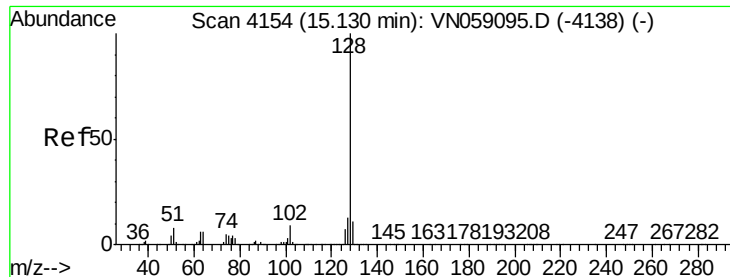
Tot Ion:180 Resp: 2841
Ion Ratio Lower Upper
180 100
182 95.1 48.1 144.3
145 30.0 15.1 45.3



#94
Hexachlorobutadiene
Concen: 0.241 ug/l
RT: 15.01 min Scan# 4116
Delta R.T. -0.00 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Tgt Ion:225 Resp: 519
Ion Ratio Lower Upper
225 100
223 114.3 31.3 93.9#
227 69.0 31.5 94.5

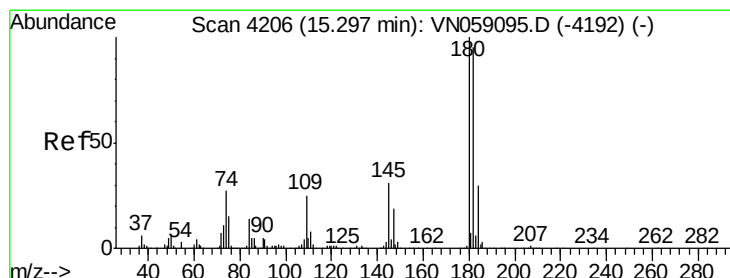
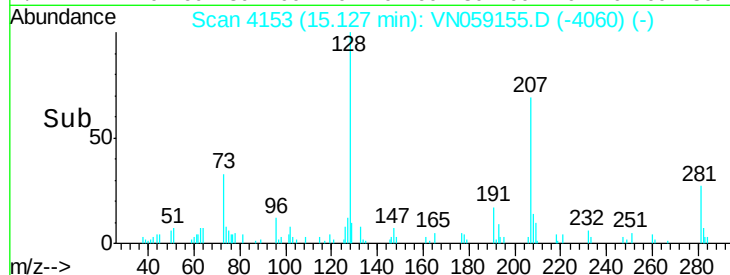
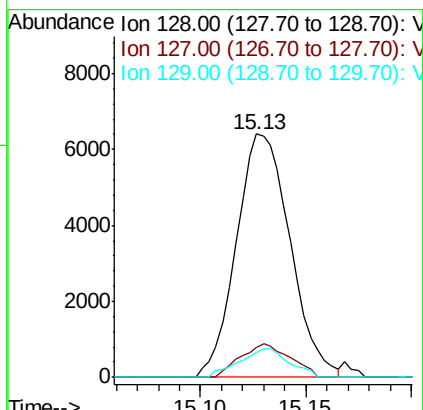
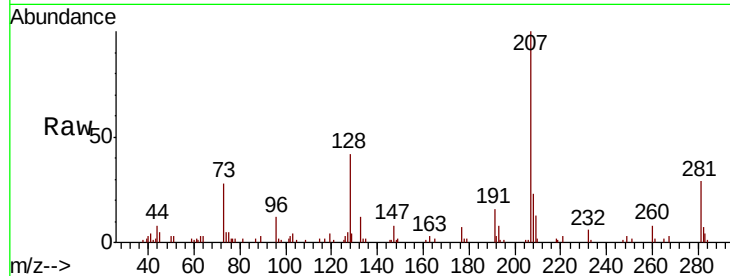




#95
Naphthalene
Concen: 4.057 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Instrument :
MSVOA_N
ClientSampleId :
LTM-RB-03-SRI4

Tot Ion:128 Resp: 11342
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.8 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 1.076 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. -0.00 min
Lab File: VN059155.D
Acq: 11 Nov 2019 13:03

Tgt Ion:180 Resp: 3772
Ion Ratio Lower Upper
180 100
182 97.4 47.3 141.8
145 43.7 15.8 47.3

