

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120619\
 Data File : VN059517.D
 Acq On : 6 Dec 2019 15:59
 Operator : JC/SP
 Sample : K6147-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 22:21:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	226946	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	360017	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	329369	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	117312	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	161530	57.29	ug/l	0.00
Spiked Amount			Recovery	=	114.58%	
35) Dibromofluoromethane	7.57	113	116329	51.88	ug/l	0.00
Spiked Amount			Recovery	=	103.76%	
50) Toluene-d8	10.08	98	460012	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	
62) 4-Bromofluorobenzene	12.40	95	144517	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	

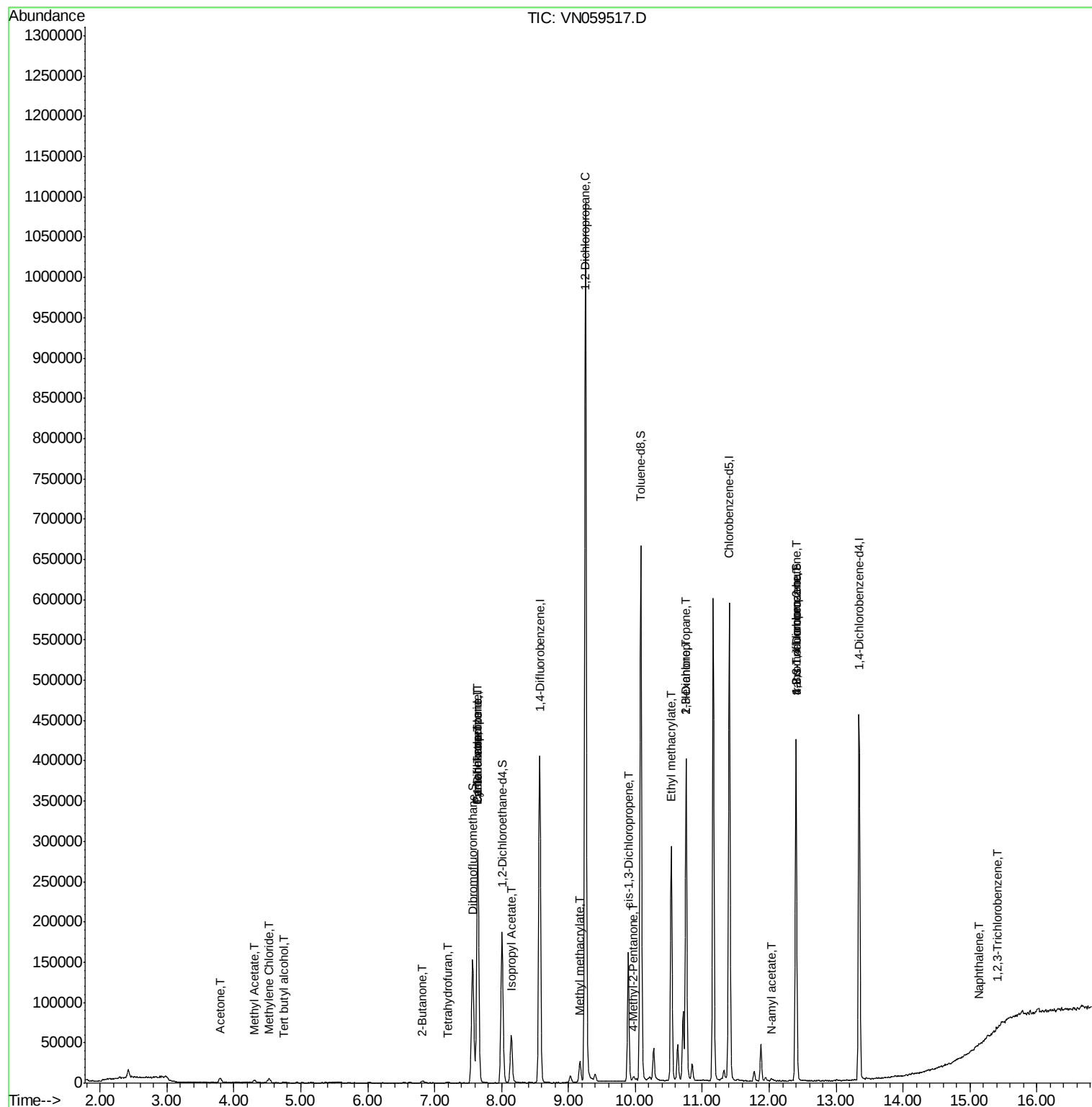
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	589	1.109	ug/l #	73
16) Acetone	3.80	43	9793	1.037	ug/l	96
18) Methyl Acetate	4.30	43	5640	1.486	ug/l	95
20) Methylene Chloride	4.52	84	3713	0.204	ug/l	96
25) 2-Butanone	6.82	43	4958	2.314	ug/l	99
29) Tetrahydrofuran	7.20	42	383	0.284	ug/l #	34
31) Cyclohexane	7.64	56	5619	1.183	ug/l #	33
36) 1,1-Dichloropropene	7.65	75	18604	4.966	ug/l #	50
38) Carbon Tetrachloride	7.65	117	22444	6.229	ug/l #	16
43) Isopropyl Acetate	8.15	43	69254	11.127	ug/l #	88
45) 1,2-Dichloropropane	9.26	63	1103	0.376	ug/l #	44
48) Methyl methacrylate	9.17	41	4527	1.612	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4565	1.236	ug/l	88
54) cis-1,3-Dichloropropene	9.90	75	26182	5.737	ug/l #	73
56) Ethyl methacrylate	10.54	69	1260	1.741	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3984	0.881	ug/l #	42
59) 2-Hexanone	10.76	43	63289	22.762	ug/l #	51
74) N-amyl acetate	12.03	43	3419	0.902	ug/l #	42
76) 1,2,3-Trichloropropane	12.40	75	78308	26.847	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	78308	70.455	ug/l #	15
95) Naphthalene	15.13	128	326	2.474	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.41	180	29	1.977	ug/l #	1

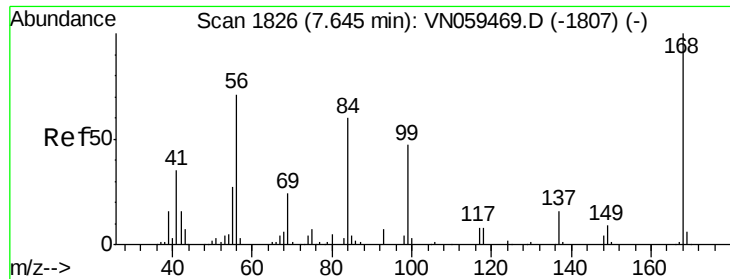
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120619\
Data File : VN059517.D
Acq On : 6 Dec 2019 15:59
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Dec 06 22:21:07 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 03 16:37:42 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: VN059517.D

Acq: 6 Dec 2019 15:59

Instrument :

MSVOA_N

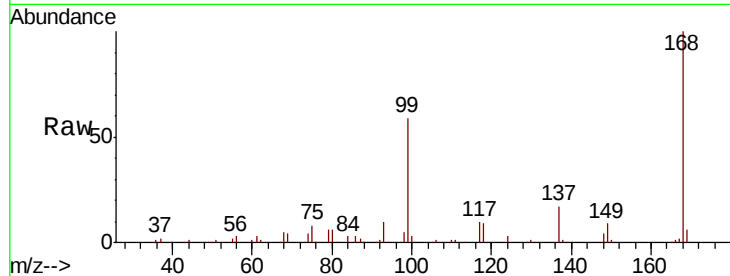
ClientSampleId :

Tot Ion:168 Resp: 226946

Ion Ratio Lower Upper

168 100

99 59.5 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

100000

80000

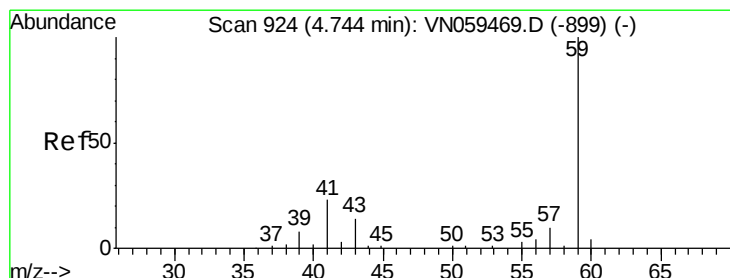
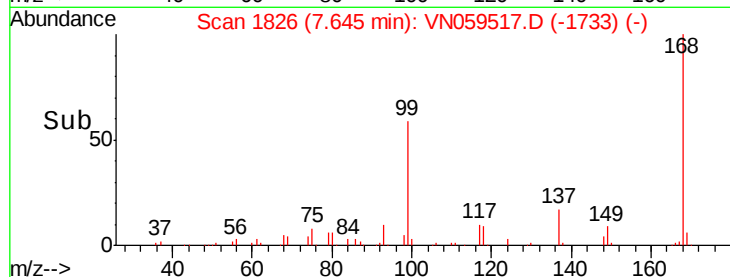
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 1.109 ug/l

RT: 4.75 min Scan# 926

Delta R.T. 0.01 min

Lab File: VN059517.D

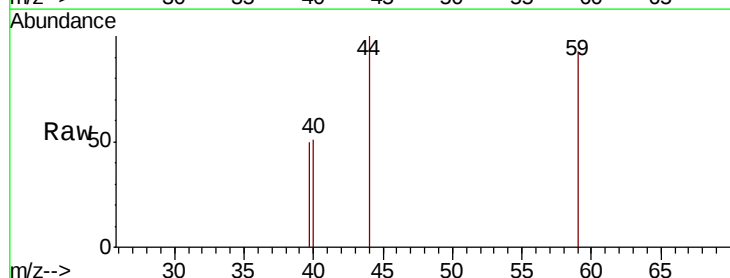
Acq: 6 Dec 2019 15:59

Tgt Ion: 59 Resp: 589

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.75

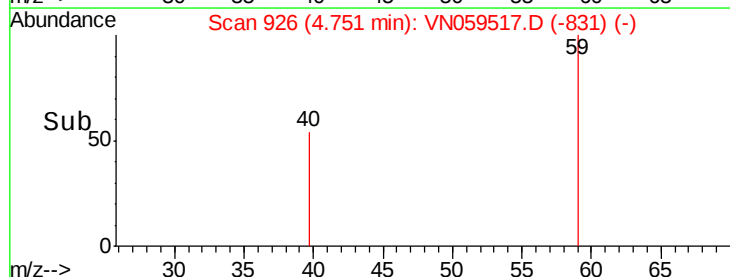
300

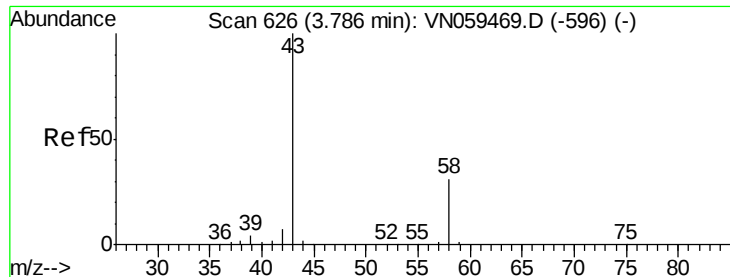
200

100

0

Time--> 4.70 4.72 4.74 4.76 4.78

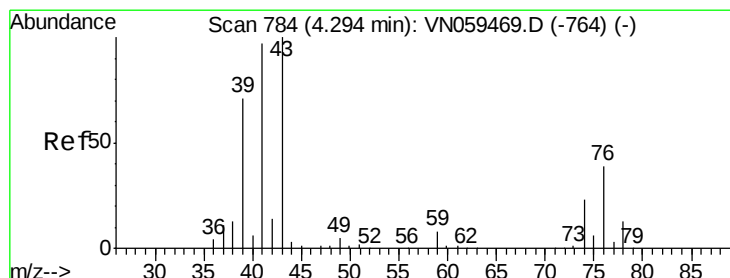
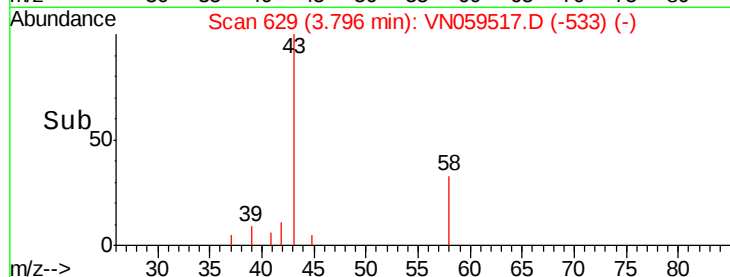
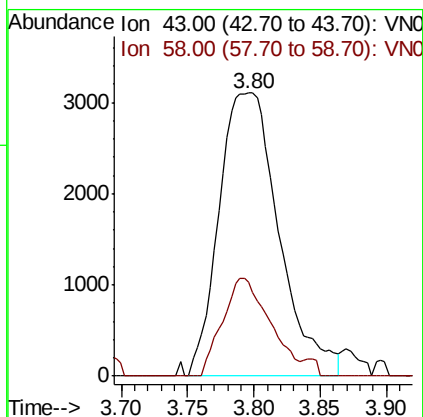
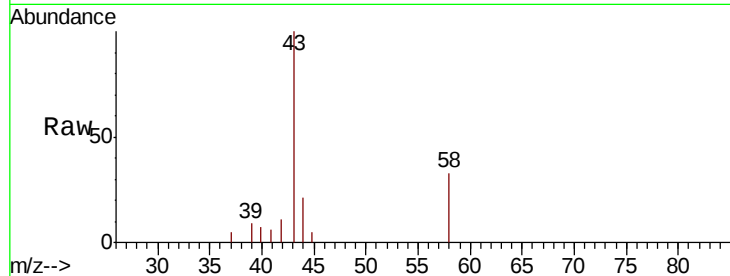




#16
Acetone
Concen: 1.037 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.01 min
Lab File: VN059517.D
Acq: 6 Dec 2019 15:59

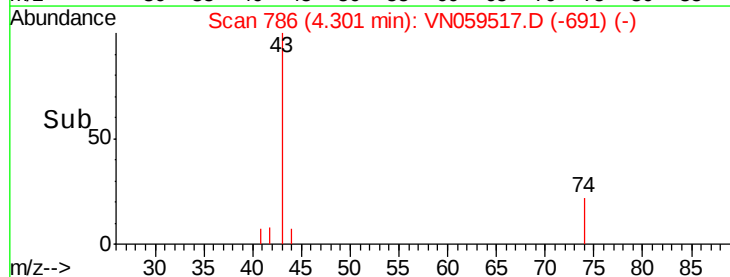
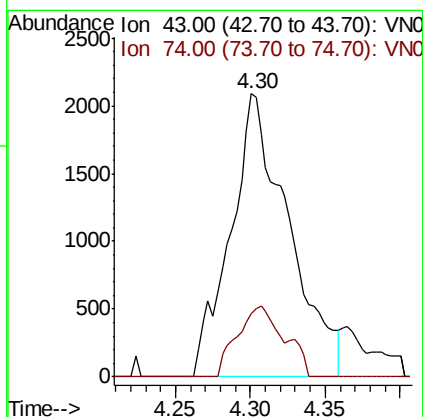
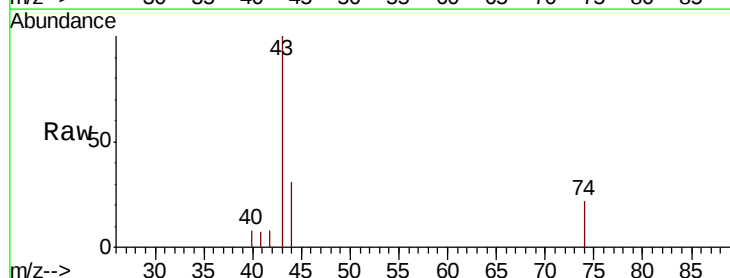
Instrument :
MSVOA_N
ClientSampled :

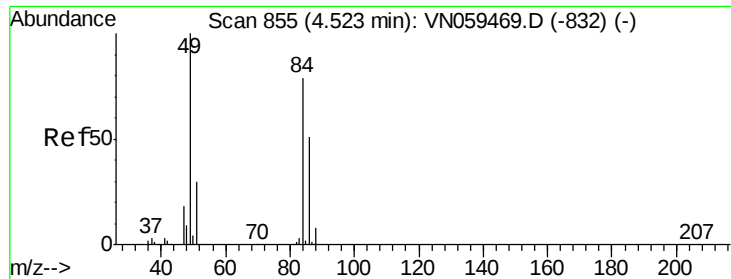
Tot Ion: 43 Resp: 9793
Ion Ratio Lower Upper
43 100
58 33.2 24.9 37.3



#18
Methyl Acetate
Concen: 1.486 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN059517.D
Acq: 6 Dec 2019 15:59

Tgt Ion: 43 Resp: 5640
Ion Ratio Lower Upper
43 100
74 20.3 18.3 27.5

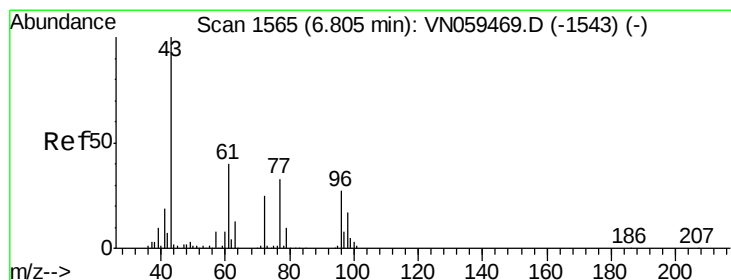
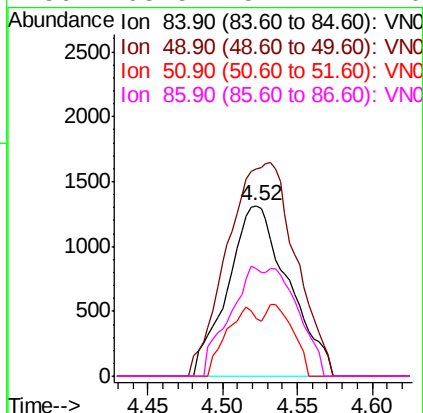
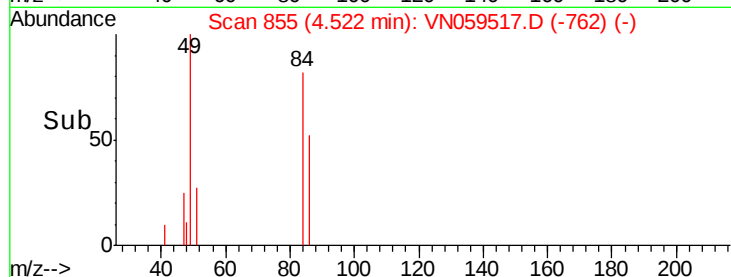
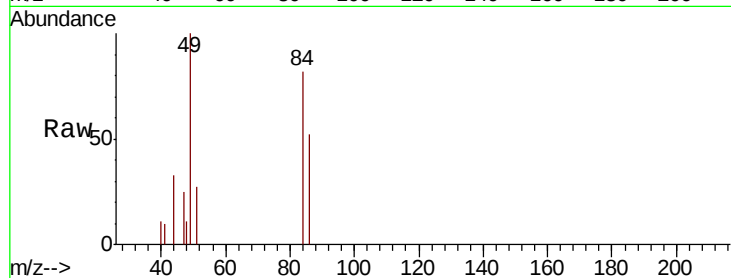




#20
Methvlene Chloride
Concen: 0.204 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059517.D
Acq: 6 Dec 2019 15:59

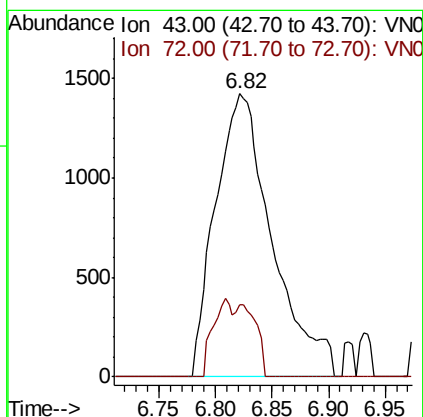
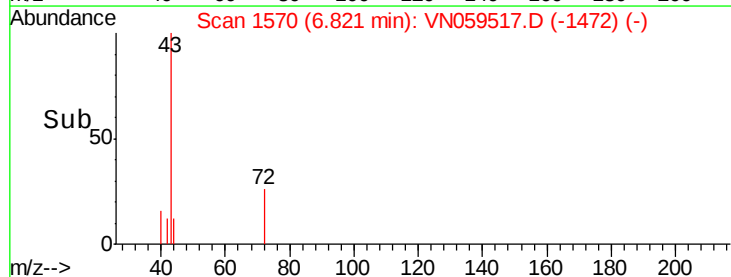
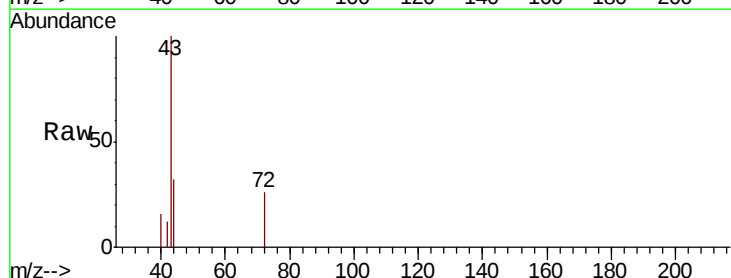
Instrument :
MSVOA_N
ClientSampled :

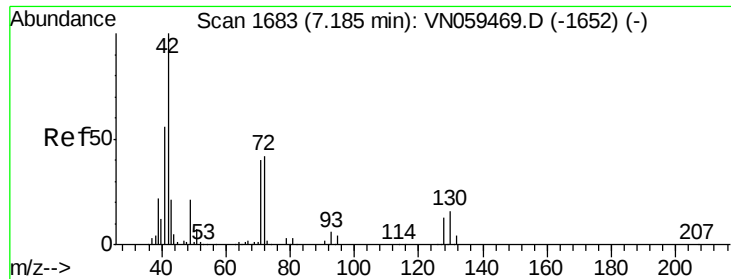
Tot Ion: 84 Resp: 3713
Ion Ratio Lower Upper
84 100
49 121.8 101.1 151.7
51 33.5 30.7 46.1
86 63.5 51.4 77.0



#25
2-Butanone
Concen: 2.314 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.02 min
Lab File: VN059517.D
Acq: 6 Dec 2019 15:59

Tgt Ion: 43 Resp: 4958
Ion Ratio Lower Upper
43 100
72 25.7 20.2 30.2

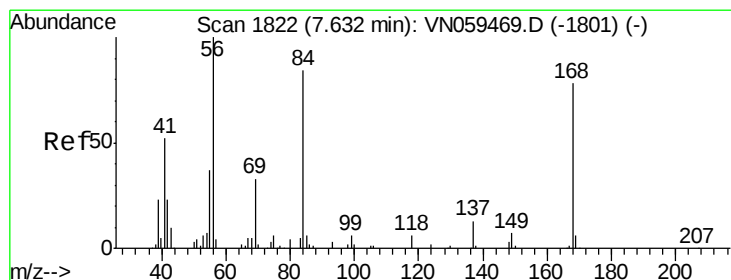
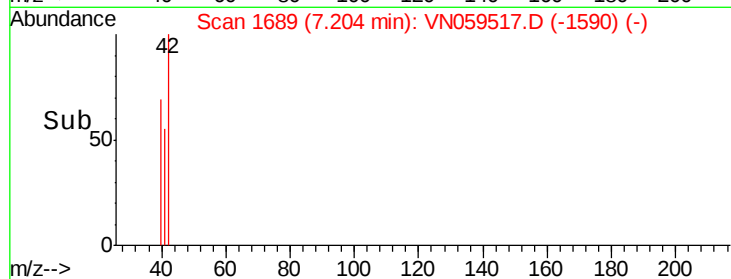
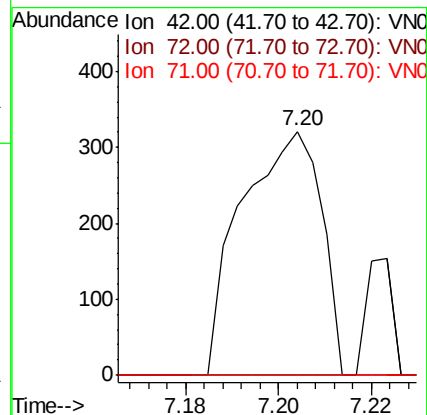
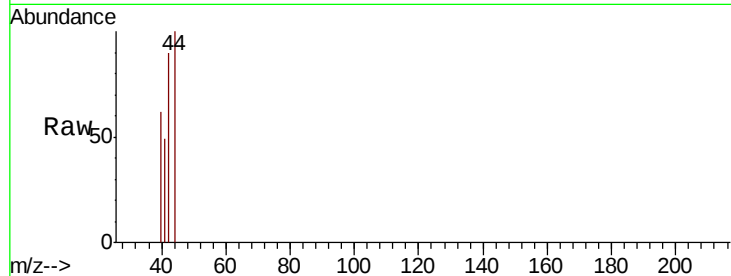




#29
Tetrahydrofuran
Concen: 0.284 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.02 min
Lab File: VN059517.D
Acq: 6 Dec 2019 15:59

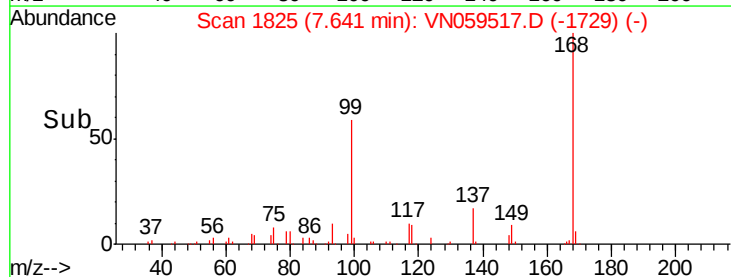
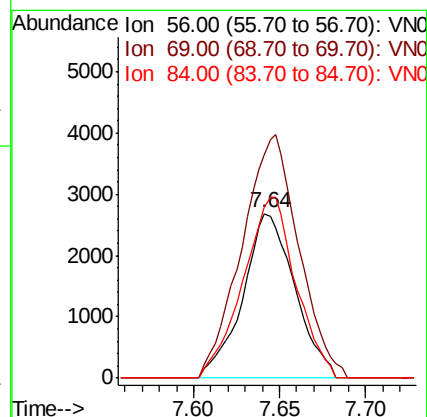
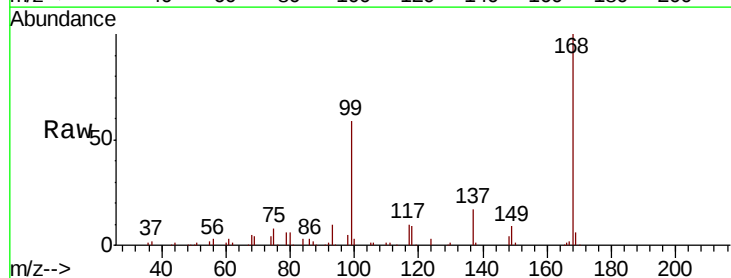
Instrument :
MSVOA_N
ClientSampled :

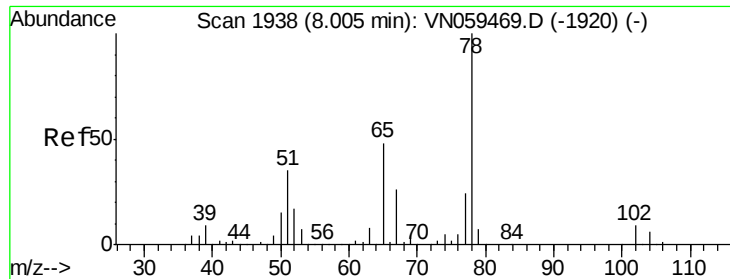
Tot Ion: 42 Resp: 383
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.0 48.0#



#31
Cyclohexane
Concen: 1.183 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059517.D
Acq: 6 Dec 2019 15:59

Tgt Ion: 56 Resp: 5619
Ion Ratio Lower Upper
56 100
69 135.3 26.2 39.4#
84 103.4 66.8 100.2#

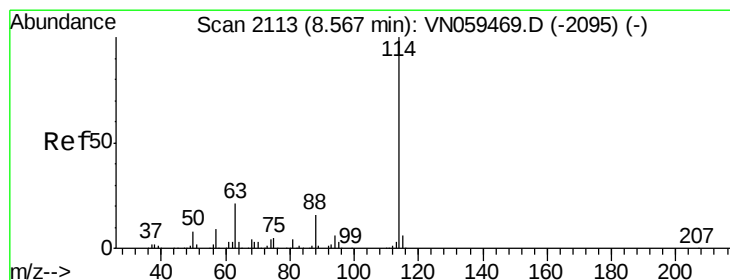
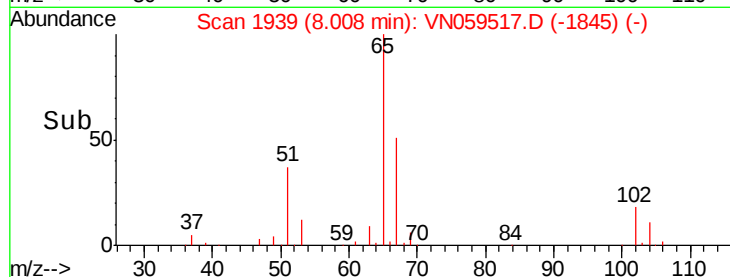
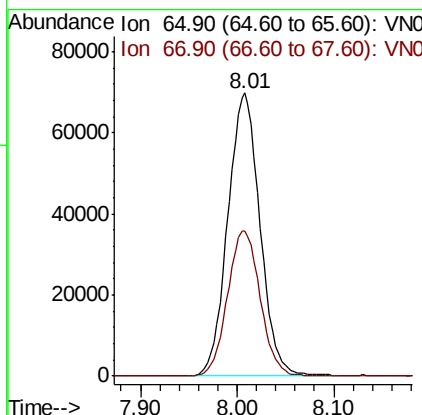
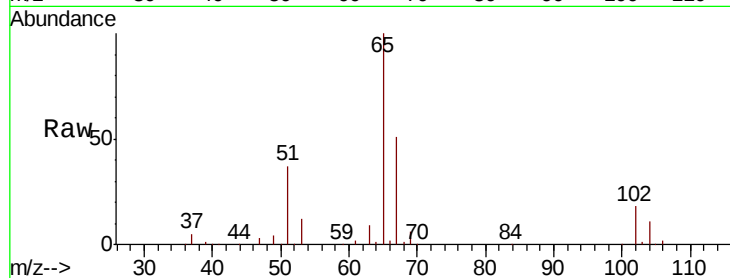




#33
 1,2-Dichloroethane-d4
 Concen: 57.295 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059517.D
 Acq: 6 Dec 2019 15:59

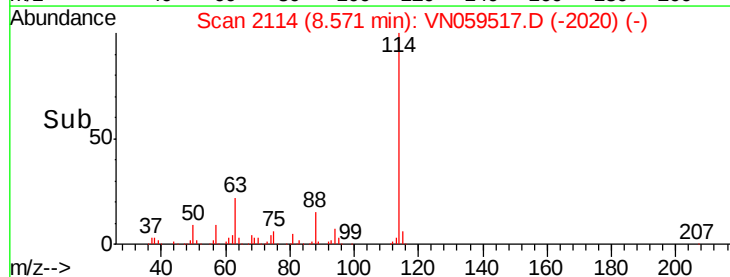
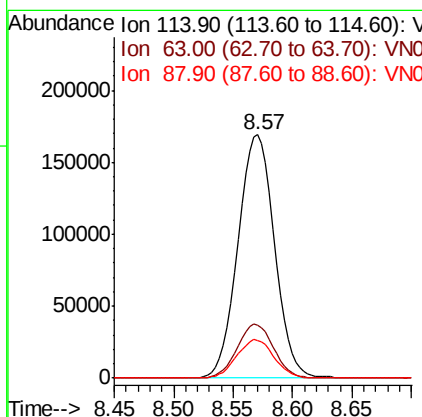
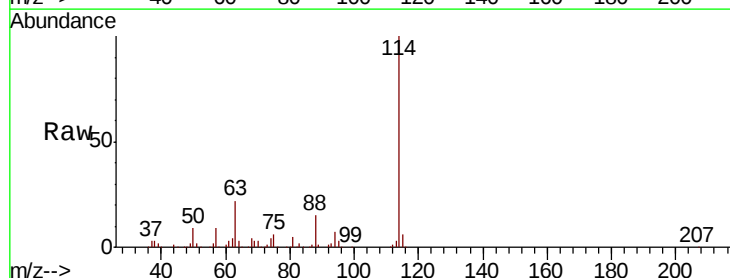
Instrument :
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 ClientSampleId :

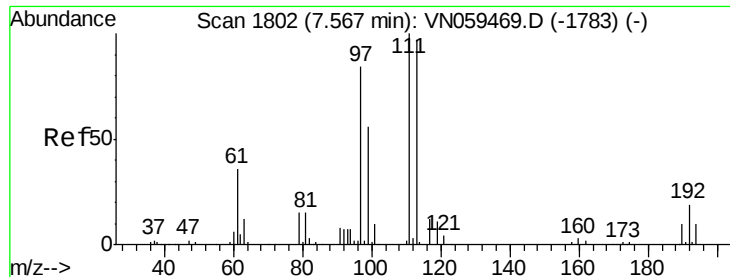
Tot Ion: 65 Resp: 161530
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059517.D
 Acq: 6 Dec 2019 15:59

Tgt Ion: 114 Resp: 360017
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 42.4
 88 15.4 0.0 32.8

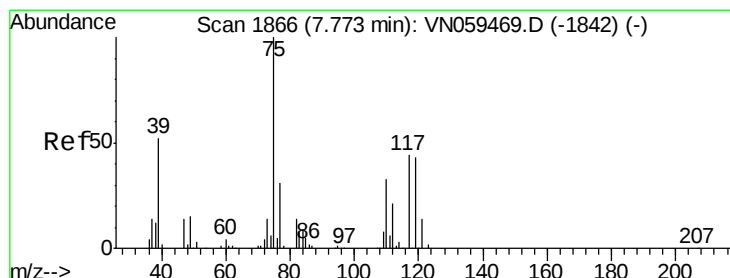
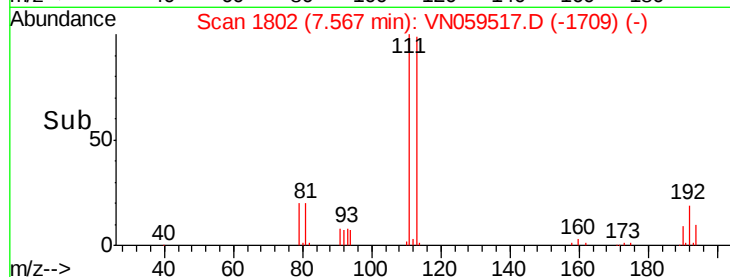
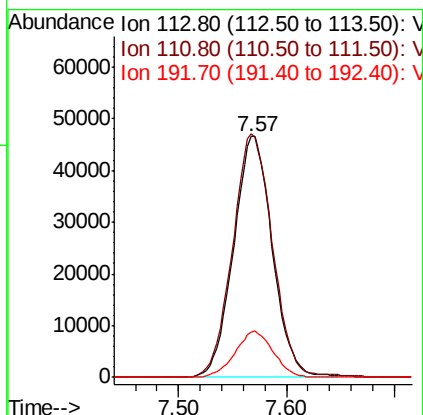
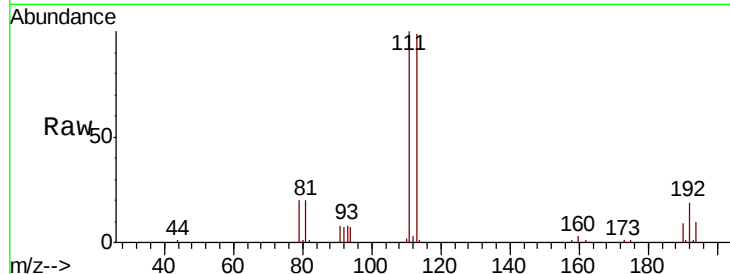




#35
 Dibromofluoromethane
 Concen: 51.880 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059517.D
 Acq: 6 Dec 2019 15:59

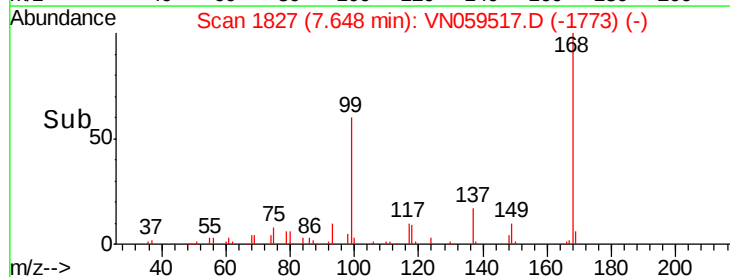
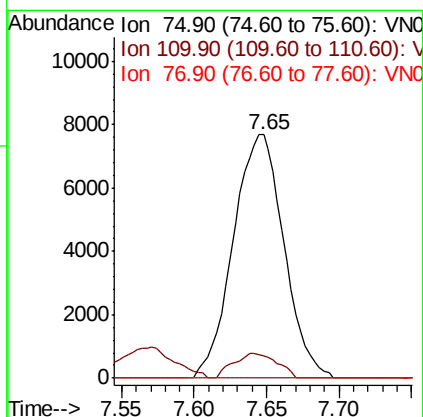
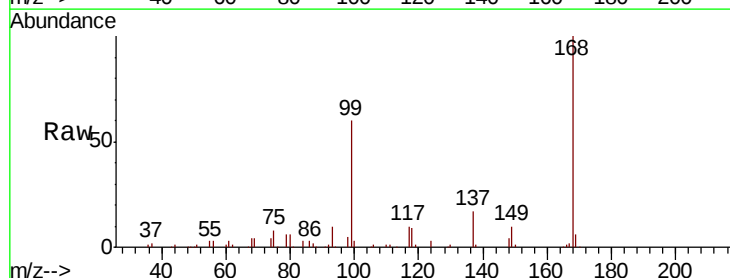
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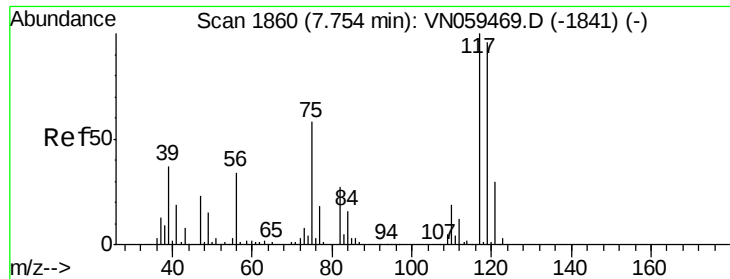
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.5	123.7
192	18.8	16.1	24.1



#36
 1,1-Dichloropropene
 Concen: 4.966 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN059517.D
 Acq: 6 Dec 2019 15:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.9	50.7#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.229 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN059517.D

Acq: 6 Dec 2019 15:59

Instrument :

MSVOA_N

ClientSampleId :

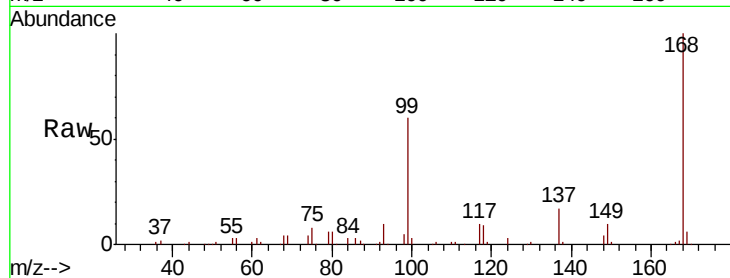
Tot Ion:117 Resp: 22444

Ion Ratio Lower Upper

117 100

119 5.4 76.6 114.8#

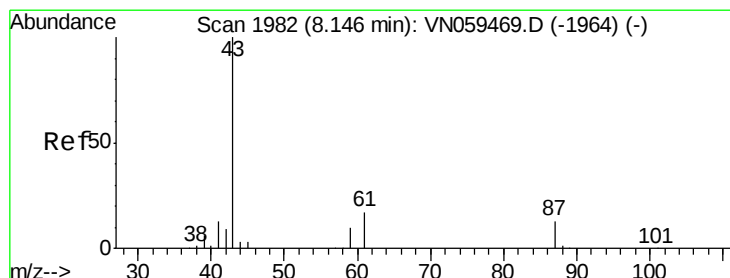
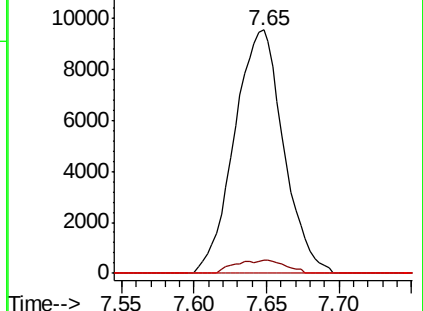
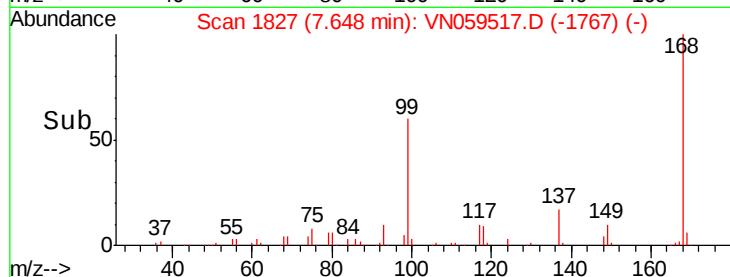
121 0.0 24.0 36.0#



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



#43

Isopropyl Acetate

Concen: 11.127 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VN059517.D

Acq: 6 Dec 2019 15:59

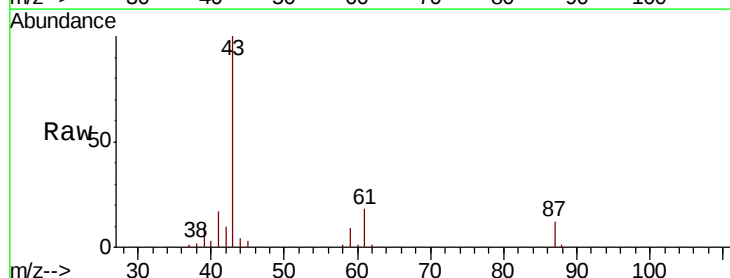
Tgt Ion: 43 Resp: 69254

Ion Ratio Lower Upper

43 100

61 18.2 21.0 31.6#

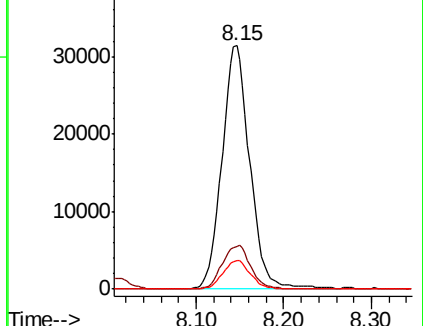
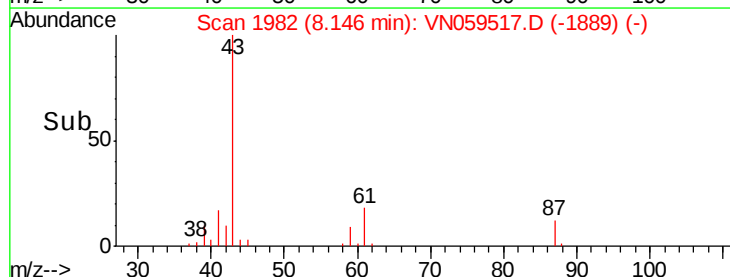
87 11.5 10.4 15.6

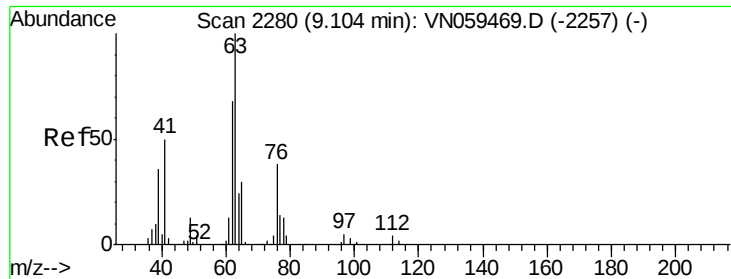


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.376 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN059517.D

Acq: 6 Dec 2019 15:59

Instrument :

MSVOA_N

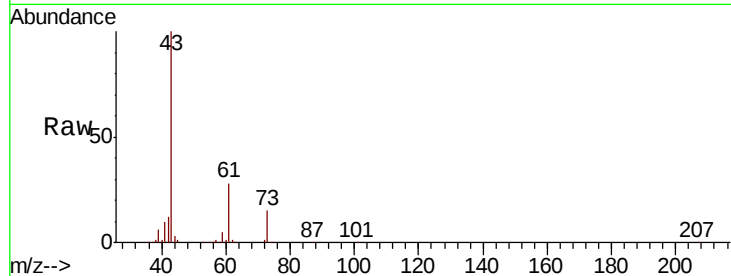
ClientSampleId :

Tot Ion: 63 Resp: 1103

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.26

600

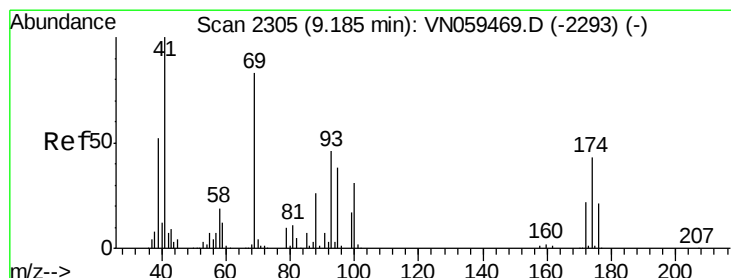
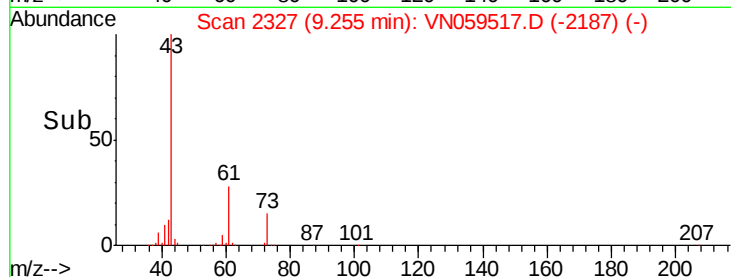
400

200

0

9.22 9.24 9.26 9.28

Time-->



#48

Methyl methacrylate

Concen: 1.612 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.02 min

Lab File: VN059517.D

Acq: 6 Dec 2019 15:59

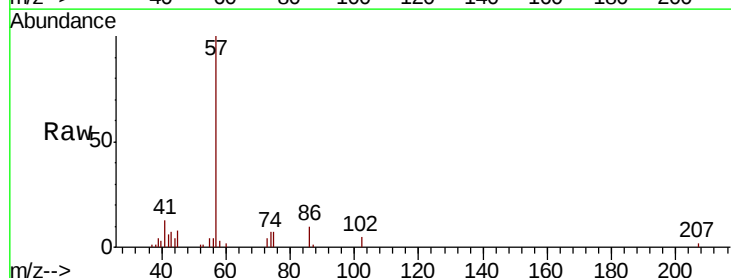
Tgt Ion: 41 Resp: 4527

Ion Ratio Lower Upper

41 100

69 0.0 68.6 103.0#

39 0.0 43.2 64.8#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

60000

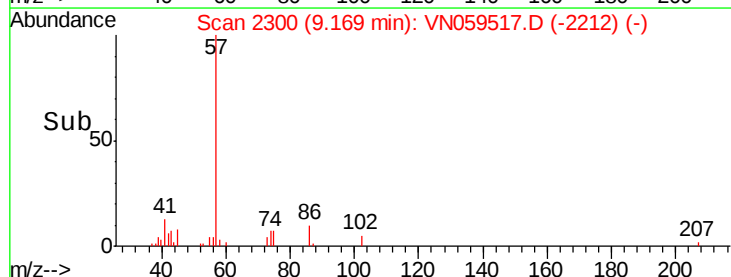
40000

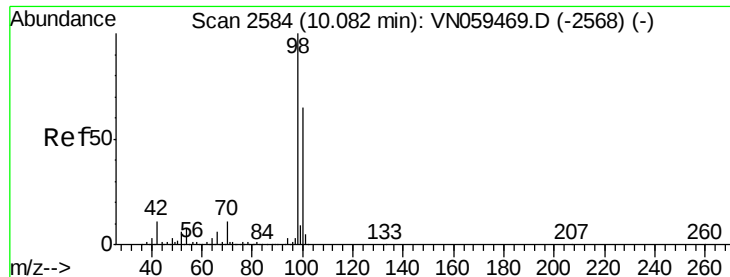
20000

0

9.10 9.15 9.20

Time-->





#50

Toluene-d8

Concen: 52.033 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN059517.D

Acq: 6 Dec 2019 15:59

Instrument :

MSVOA_N

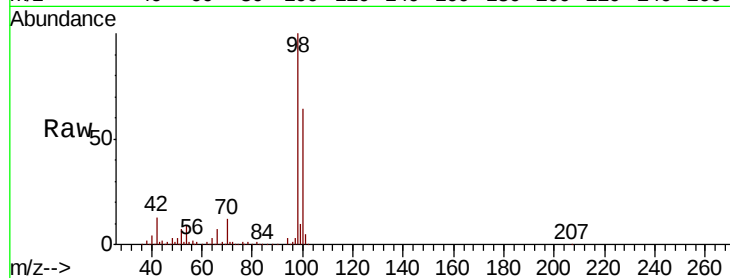
ClientSampled :

Tot Ion: 98 Resp: 460012

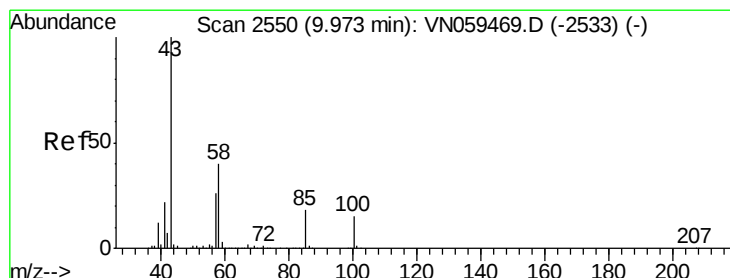
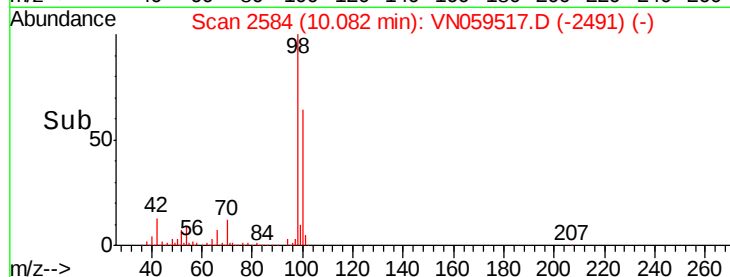
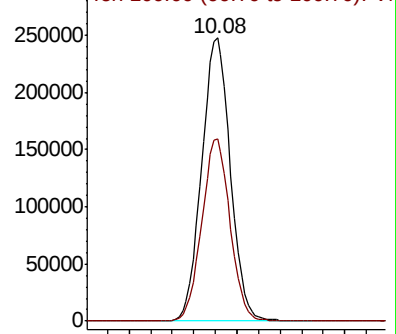
Ion Ratio Lower Upper

98 100

100 63.5 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VN059469.D (-2568) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.236 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN059517.D

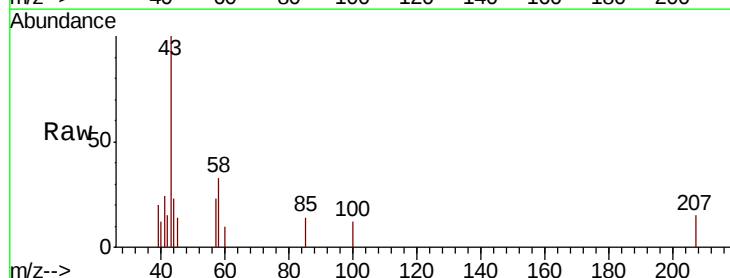
Acq: 6 Dec 2019 15:59

Tgt Ion: 43 Resp: 4565

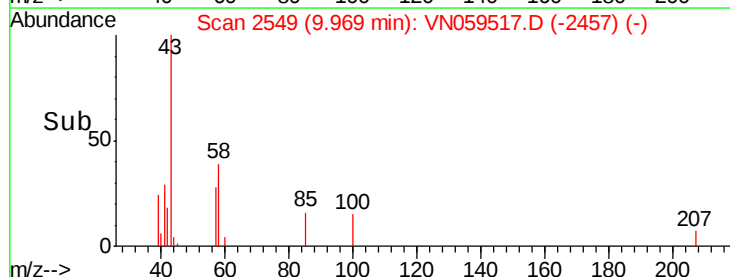
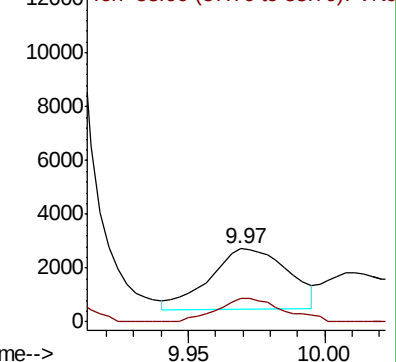
Ion Ratio Lower Upper

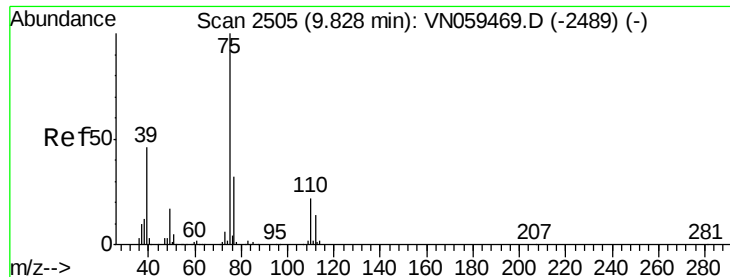
43 100

58 32.4 32.1 48.1



Abundance Ion 43.00 (42.70 to 43.70): VN059469.D (-2533) (-)



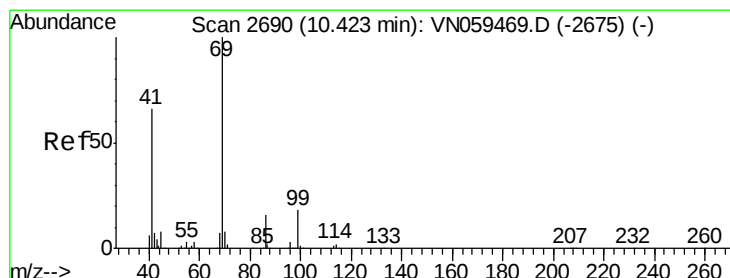
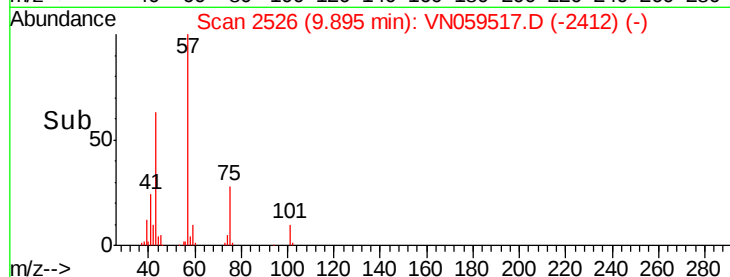
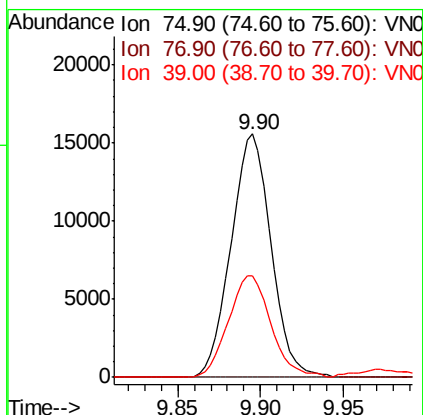
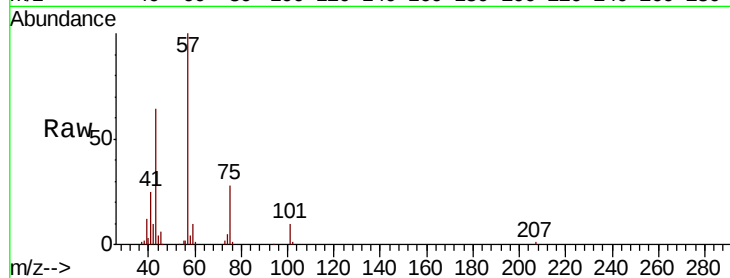


#54

cis-1,3-Dichloropropene
 Concen: 5.737 ug/l
 RT: 9.90 min Scan# 2526
 Delta R.T. 0.07 min
 Lab File: VN059517.D
 Acq: 6 Dec 2019 15:59

Instrument :
 MSVOA_N
 ClientSampleId :

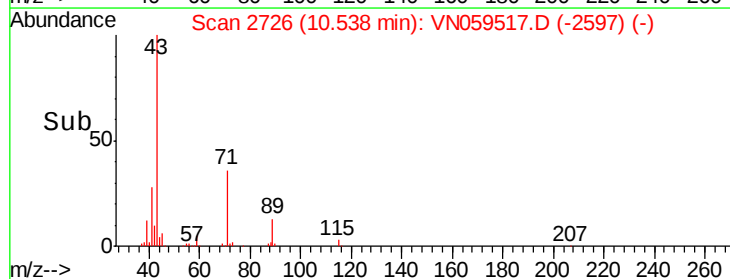
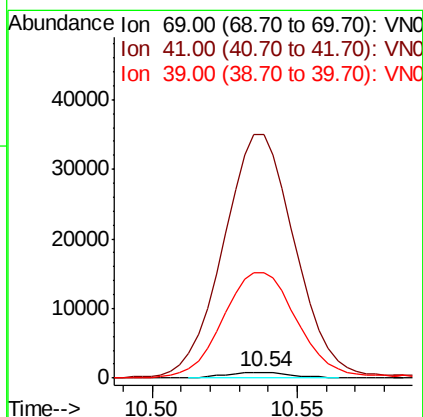
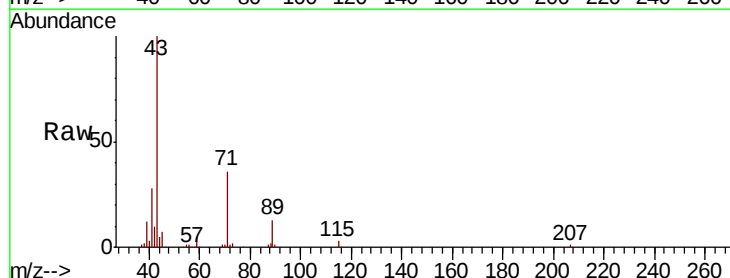
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.7	38.5#
39	41.7	36.6	54.8

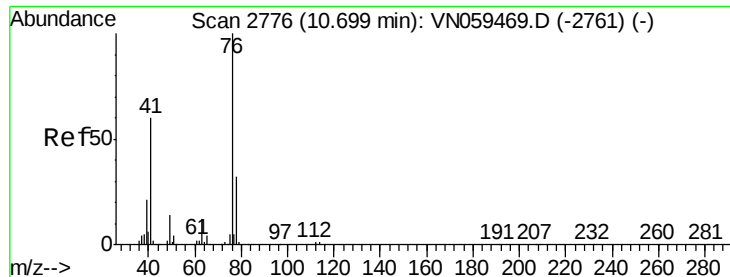


#56

Ethyl methacrylate
 Concen: 1.741 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.12 min
 Lab File: VN059517.D
 Acq: 6 Dec 2019 15:59

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4833.0	52.7	79.1#
39	2162.1	25.0	37.6#





#57

1,3-Dichloropropane

Concen: 0.881 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN059517.D

Acq: 6 Dec 2019 15:59

Instrument :

MSVOA_N

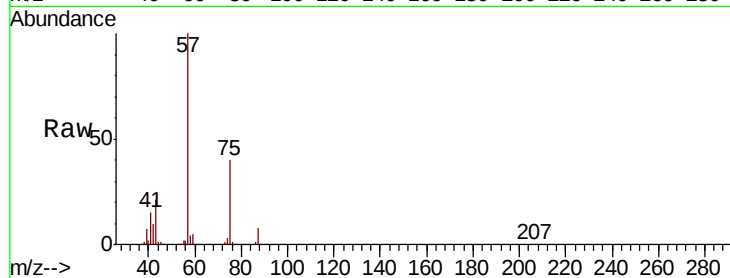
ClientSampled :

Tot Ion: 76 Resp: 3984

Ion Ratio Lower Upper

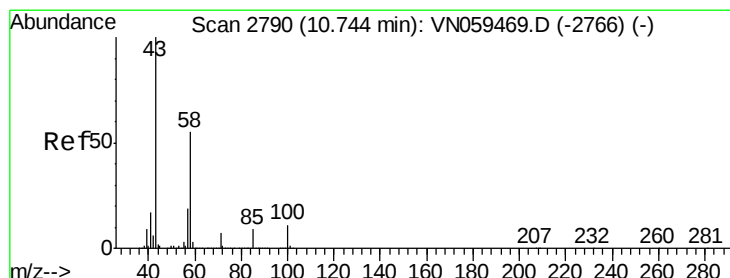
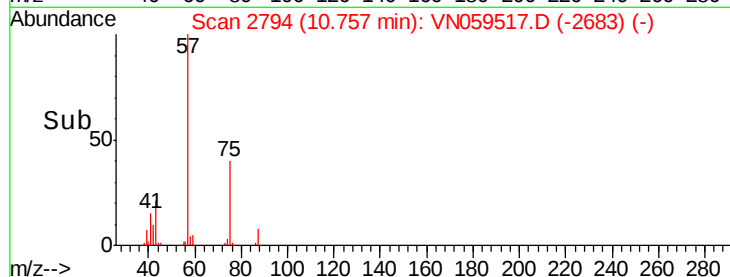
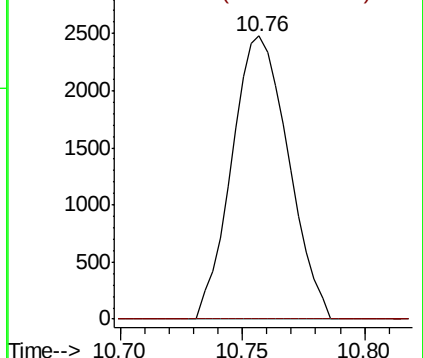
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 22.762 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN059517.D

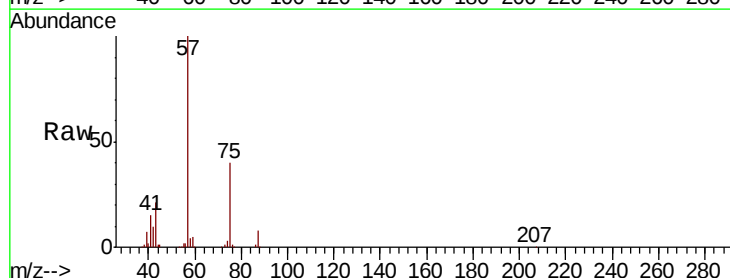
Acq: 6 Dec 2019 15:59

Tgt Ion: 43 Resp: 63289

Ion Ratio Lower Upper

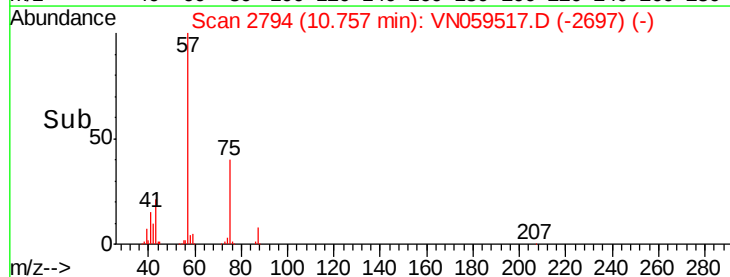
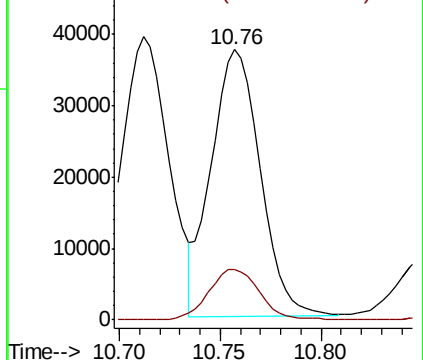
43 100

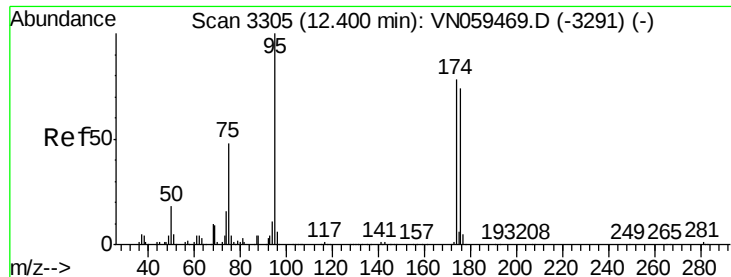
58 19.5 27.7 83.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

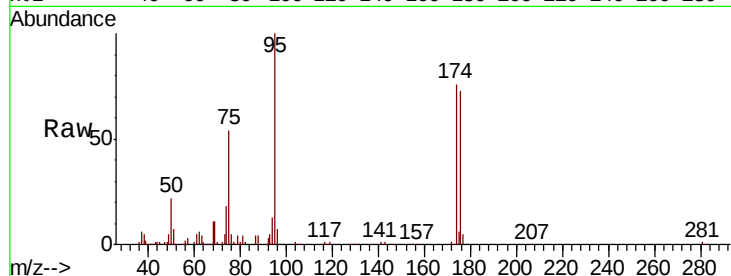




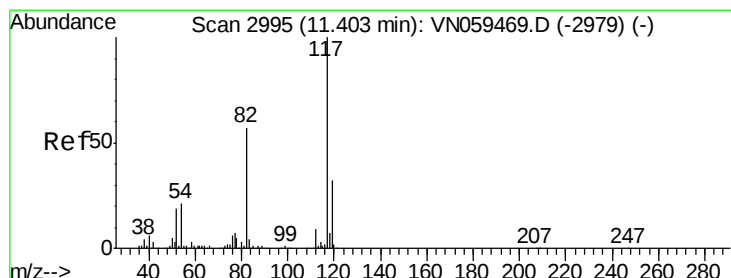
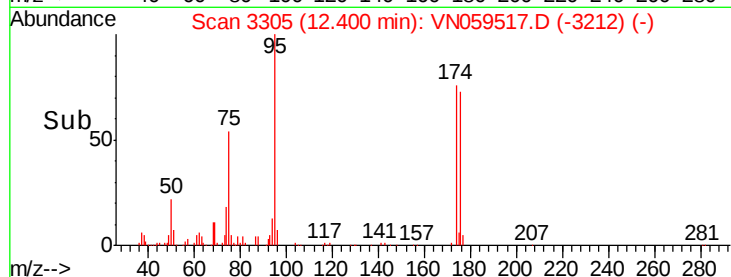
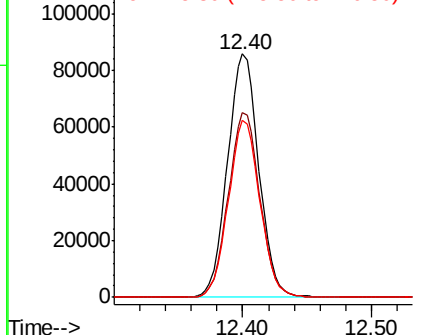
#62
4-Bromofluorobenzene
Concen: 46.807 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059517.D
Acq: 6 Dec 2019 15:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	95	Resp	144517
Ion Ratio	100		
Lower			
Upper			
174	76.5	0.0	157.0
176	73.0	0.0	152.4

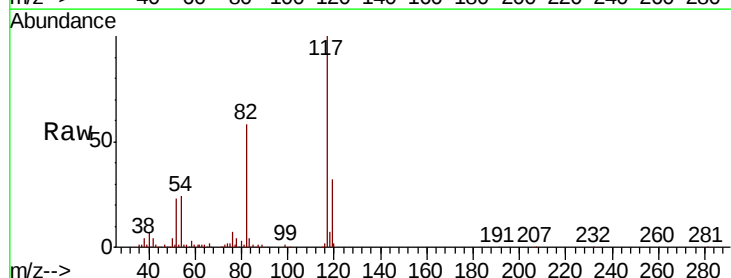


Abundance Ion 94.90 (94.60 to 95.60): VN059469.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN059469.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN059469.D (-3291) (-)

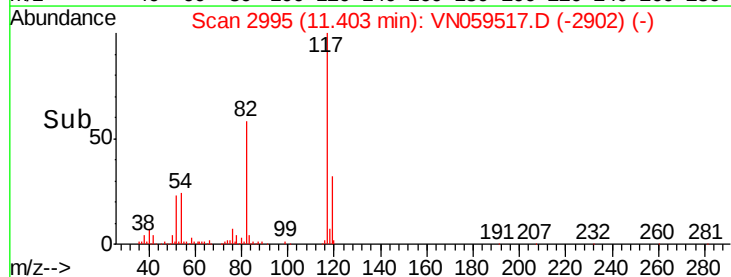
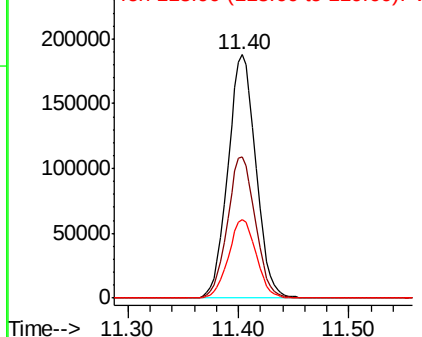


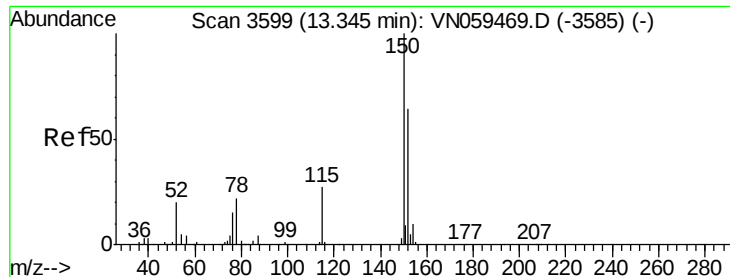
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059517.D
Acq: 6 Dec 2019 15:59

Tgt Ion	117	Resp	329369
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
82	58.0	45.8	68.8
119	32.4	25.4	38.0



Abundance Ion 116.90 (116.60 to 117.60): VN059469.D (-2979) (-)
Ion 82.00 (81.70 to 82.70): VN059469.D (-2979) (-)
Ion 118.90 (118.60 to 119.60): VN059469.D (-2979) (-)



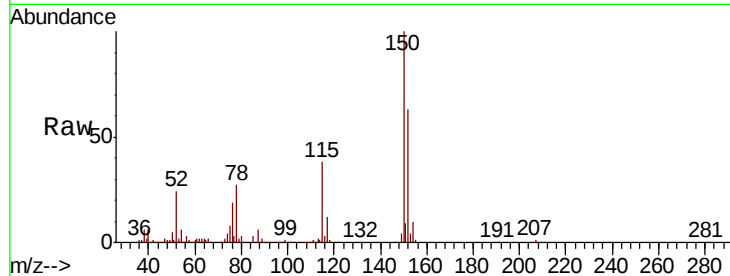


#72

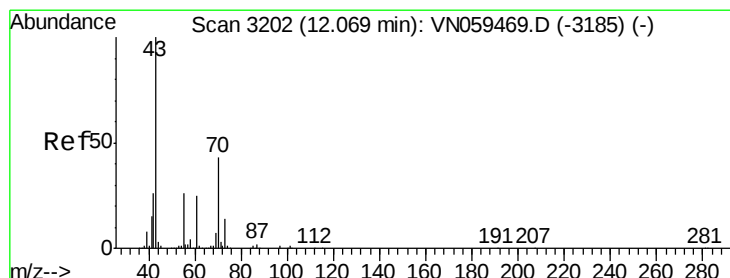
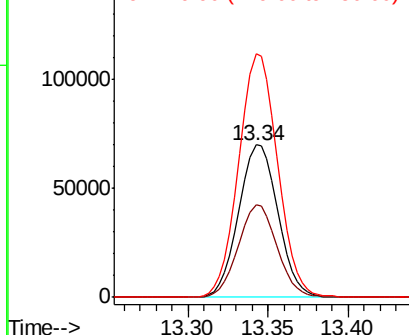
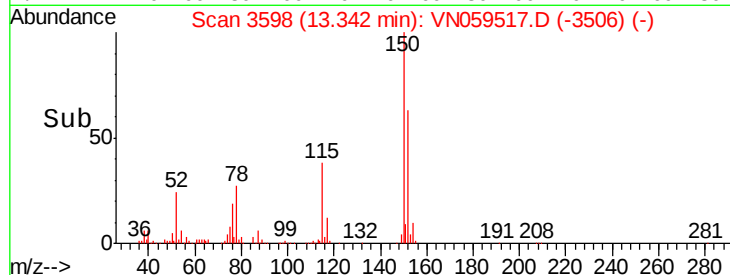
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN059517.D
Acq: 6 Dec 2019 15:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:152 Resp: 117312
Ion Ratio Lower Upper
152 100
115 59.7 29.2 87.6
150 157.8 0.0 352.8



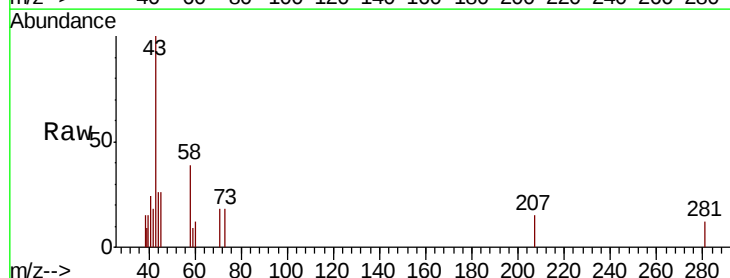
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



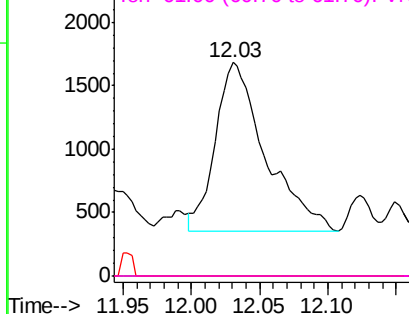
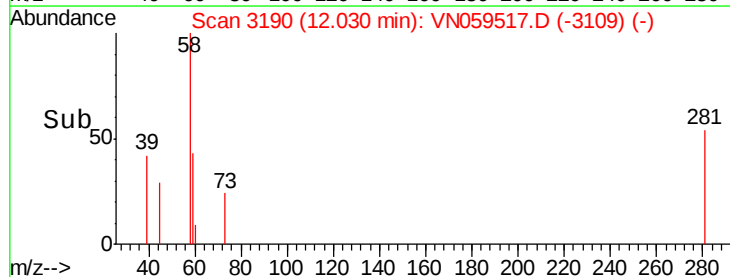
#74

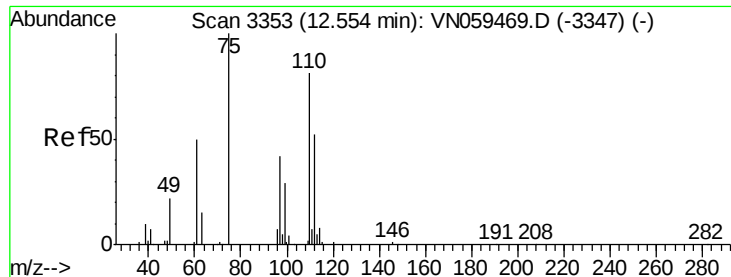
N-ethyl acetate
Concen: 0.902 ug/l
RT: 12.03 min Scan# 3190
Delta R.T. -0.04 min
Lab File: VN059517.D
Acq: 6 Dec 2019 15:59

Tgt Ion: 43 Resp: 3419
Ion Ratio Lower Upper
43 100
70 0.0 34.2 51.2#
55 0.0 20.6 31.0#
61 0.0 19.3 28.9#



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

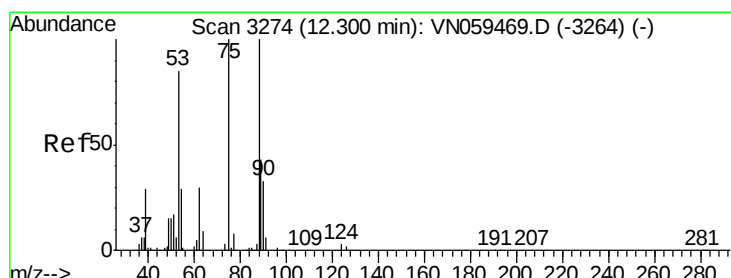
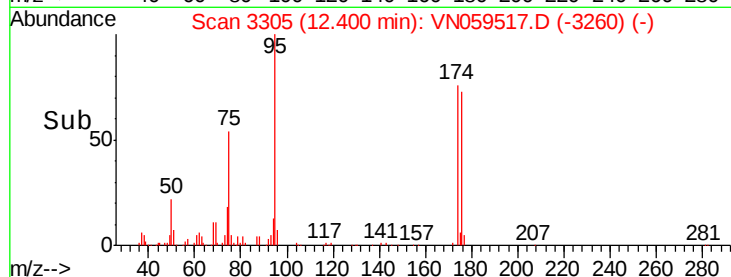
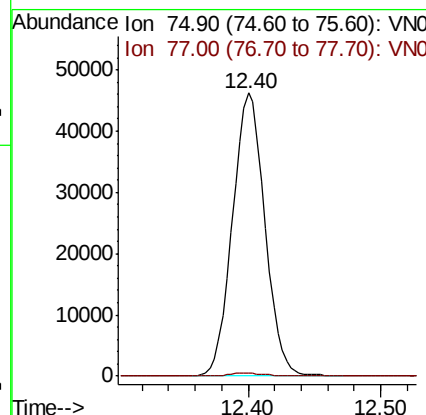
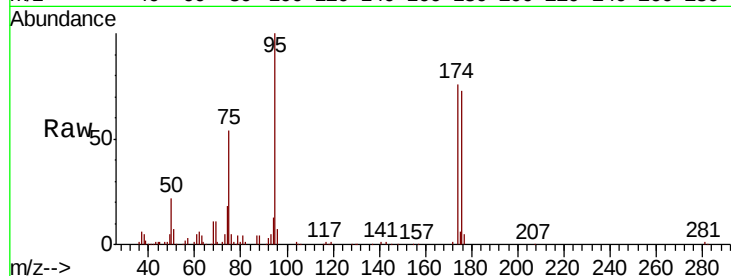




#76
 1,2,3-Trichloropropane
 Concen: 26.847 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN059517.D
 Acq: 6 Dec 2019 15:59

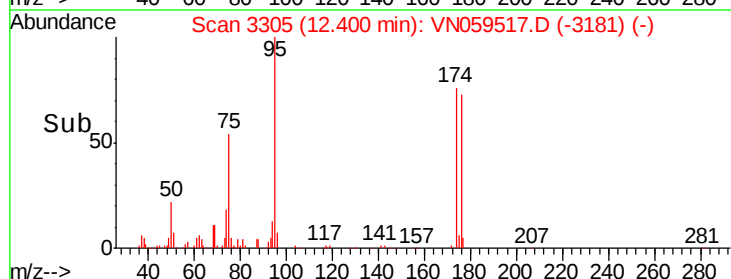
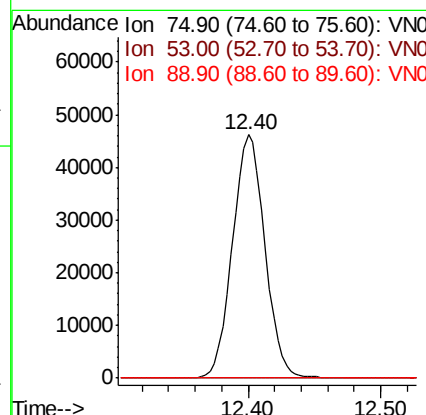
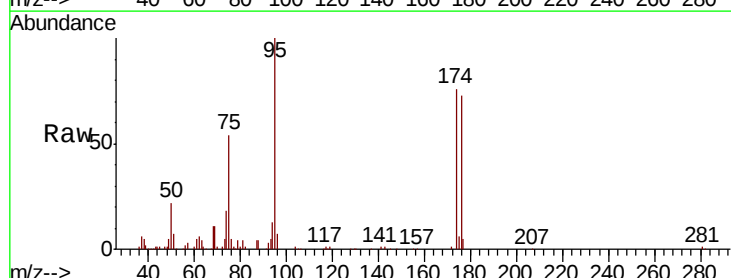
Instrument :
 MSVOA_N
 ClientSampleId :

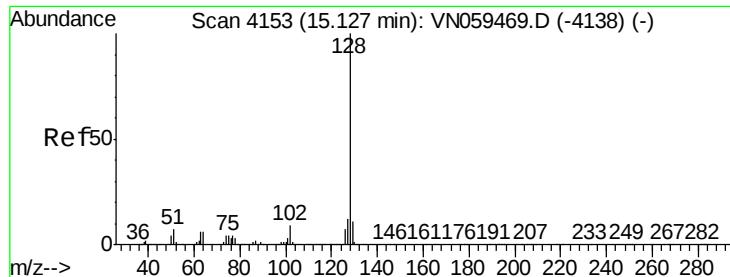
Tot Ion: 75 Resp: 78308
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.455 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN059517.D
 Acq: 6 Dec 2019 15:59

Tgt Ion: 75 Resp: 78308
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.8 104.6#
 89 0.0 35.2 52.8#





#95

Naphthalene

Concen: 2.474 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059517.D

Acq: 6 Dec 2019 15:59

Instrument :

MSVOA_N

ClientSampled :

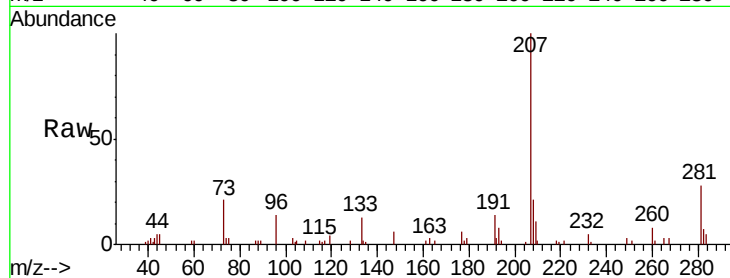
Tot Ion:128 Resp: 326

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.8 13.2#



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

15.13

250

200

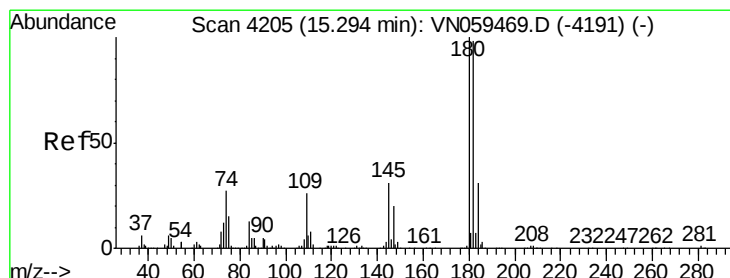
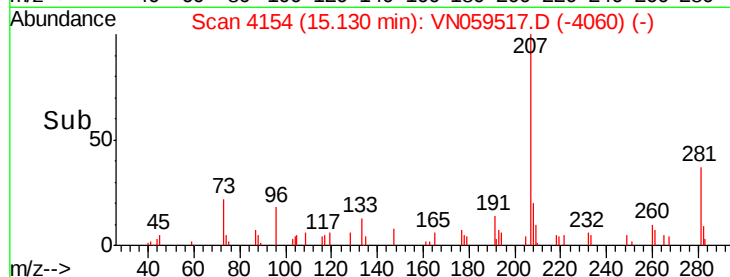
150

100

50

0

Time--> 15.10 15.12 15.14 15.16



#96

1,2,3-Trichlorobenzene

Concen: 1.977 ug/l

RT: 15.41 min Scan# 4241

Delta R.T. 0.12 min

Lab File: VN059517.D

Acq: 6 Dec 2019 15:59

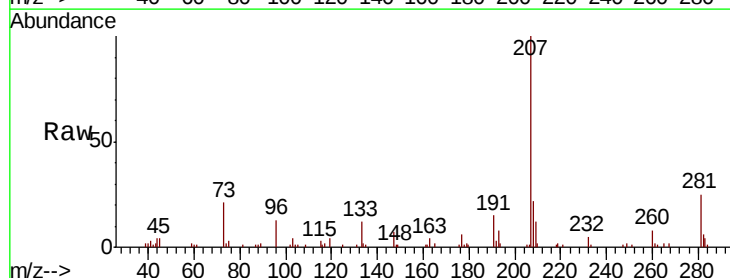
Tgt Ion:180 Resp: 29

Ion Ratio Lower Upper

180 100

182 0.0 48.5 145.5#

145 106.9 16.1 48.2#



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

15.41

200

150

100

50

0

Time--> 15.40 15.41 15.42

