

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120619\
 Data File : VN059512.D
 Acq On : 6 Dec 2019 14:09
 Operator : JC/SP
 Sample : K6147-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 22:19:50 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	227106	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	367233	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	333250	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	118324	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	162852	57.72	ug/l	0.00
Spiked Amount			Recovery	=	115.44%	
35) Dibromofluoromethane	7.57	113	118212	51.68	ug/l	0.00
Spiked Amount			Recovery	=	103.36%	
50) Toluene-d8	10.08	98	458504	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
62) 4-Bromofluorobenzene	12.40	95	144108	45.76	ug/l	0.00
Spiked Amount			Recovery	=	91.52%	

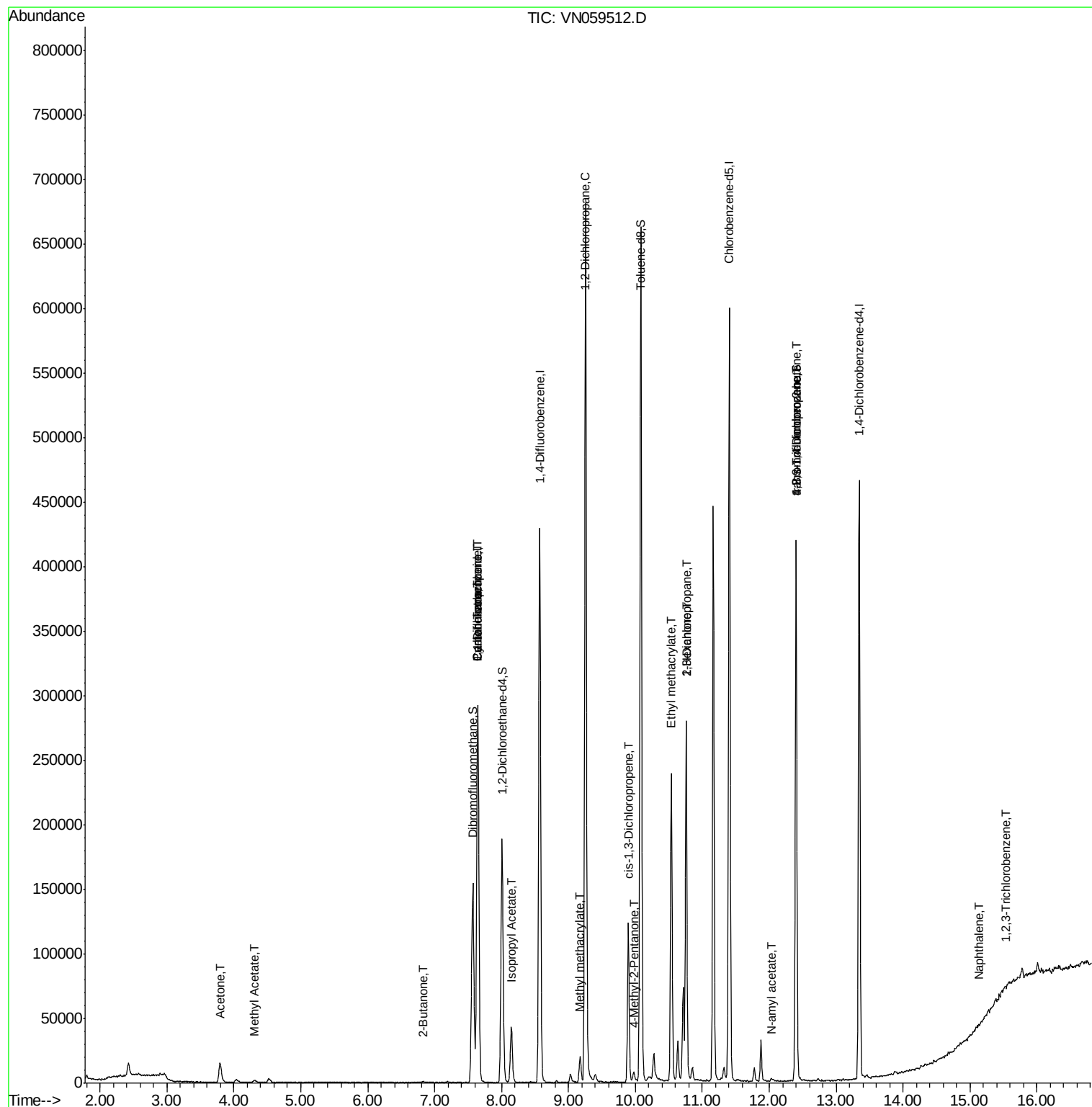
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	24758	10.733	ug/l	94
18) Methyl Acetate	4.31	43	2770	0.729	ug/l #	70
20) Methylene Chloride	4.52	84	1917	Below Cal	#	96
25) 2-Butanone	6.83	43	2435	1.136	ug/l #	50
31) Cyclohexane	7.64	56	5531	1.164	ug/l #	27
36) 1,1-Dichloropropene	7.64	75	19449	5.089	ug/l #	50
38) Carbon Tetrachloride	7.64	117	23195	6.311	ug/l #	16
43) Isopropyl Acetate	8.15	43	50079	7.888	ug/l #	88
45) 1,2-Dichloropropane	9.26	63	671	0.224	ug/l #	44
48) Methyl methacrylate	9.17	41	3467	1.210	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4716	1.251	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	20476	4.399	ug/l #	74
56) Ethyl methacrylate	10.54	69	993	1.675	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	2575	0.558	ug/l #	42
59) 2-Hexanone	10.76	43	41654	14.687	ug/l #	49
74) N-amyl acetate	12.03	43	2479	0.649	ug/l #	42
76) 1,2,3-Trichloropropane	12.40	75	77617	26.382	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	77617	69.236	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.28	75	60	Below Cal	#	2
95) Naphthalene	15.13	128	716	2.528	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.54	180	29	1.977	ug/l #	1

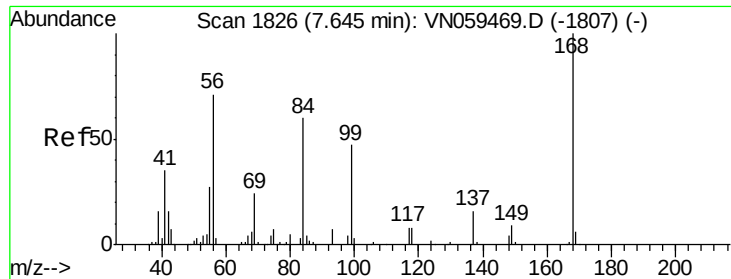
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN059512.D

Acq: 6 Dec 2019 14:09

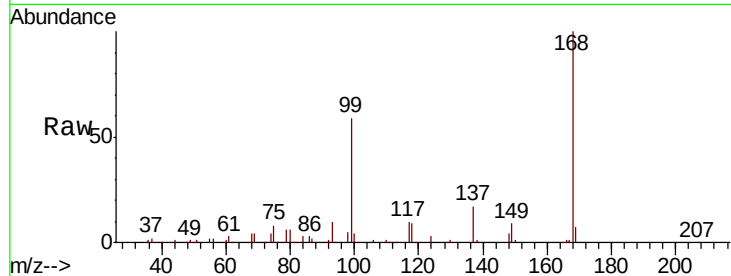
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 227106

Ion Ratio Lower Upper

168 100

99 59.1 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

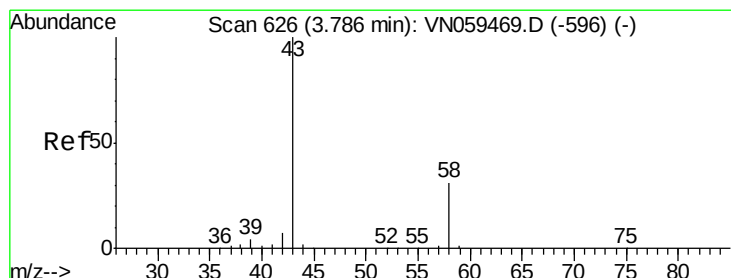
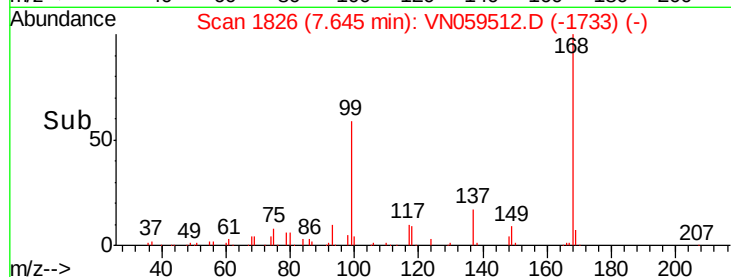
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 10.733 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059512.D

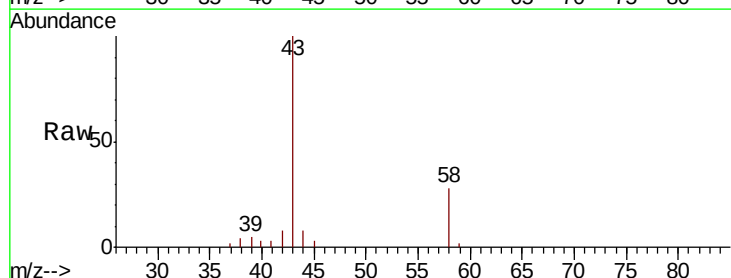
Acq: 6 Dec 2019 14:09

Tgt Ion: 43 Resp: 24758

Ion Ratio Lower Upper

43 100

58 27.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

10000

8000

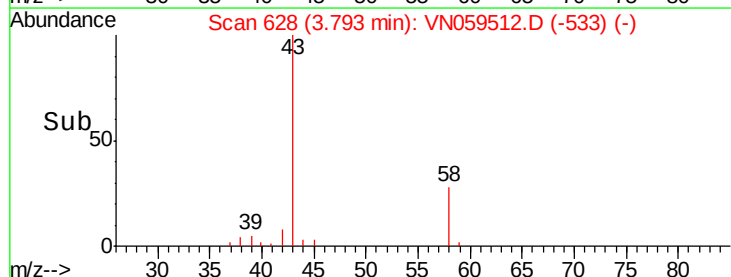
6000

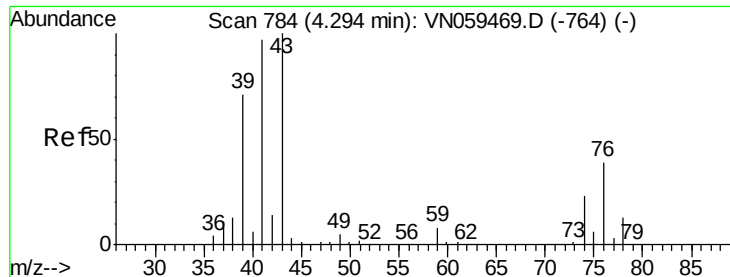
4000

2000

0

Time--> 3.70 3.75 3.80 3.85

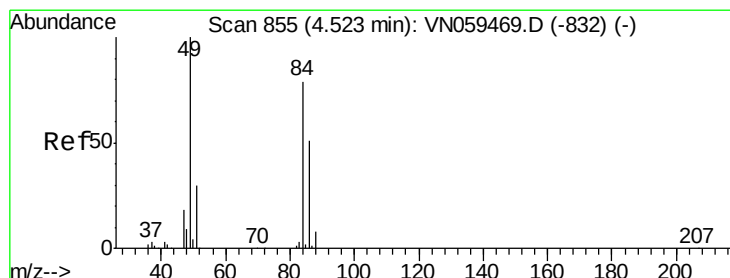
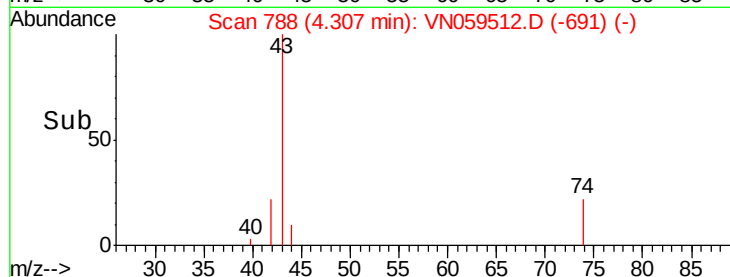
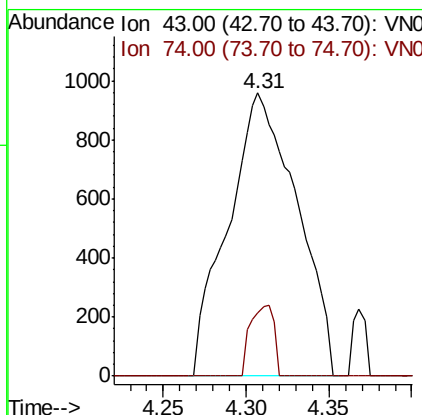
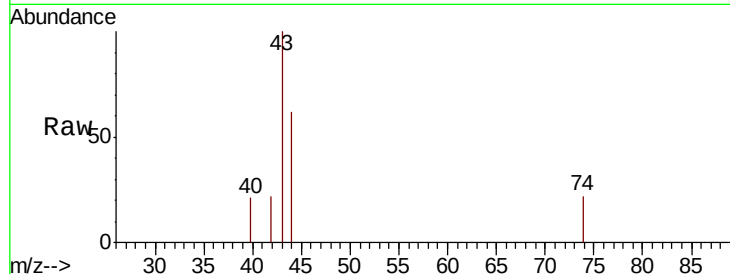




#18
Methvl Acetate
Concen: 0.729 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN059512.D
Acq: 6 Dec 2019 14:09

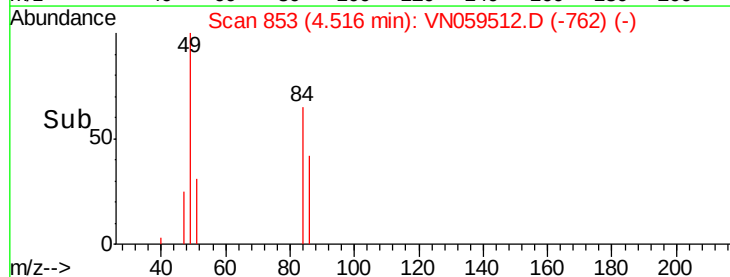
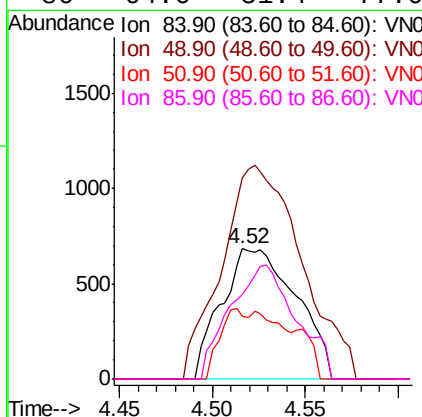
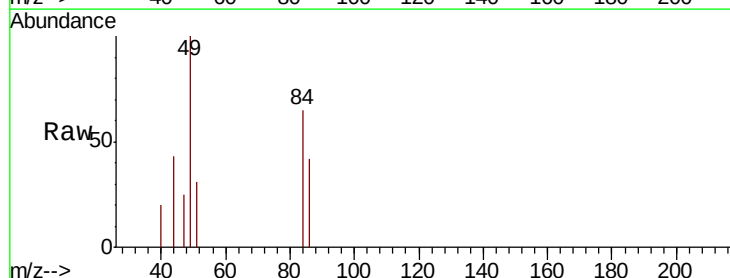
Instrument :
MSVOA_N
ClientSampleId :

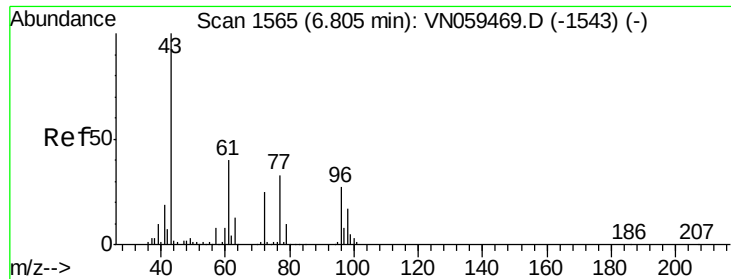
Tot Ion: 43 Resp: 2770
Ion Ratio Lower Upper
43 100
74 8.5 18.3 27.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059512.D
Acq: 6 Dec 2019 14:09

Tgt Ion: 84 Resp: 1917
Ion Ratio Lower Upper
84 100
49 128.6 101.1 151.7
51 48.5 30.7 46.1#
86 64.6 51.4 77.0

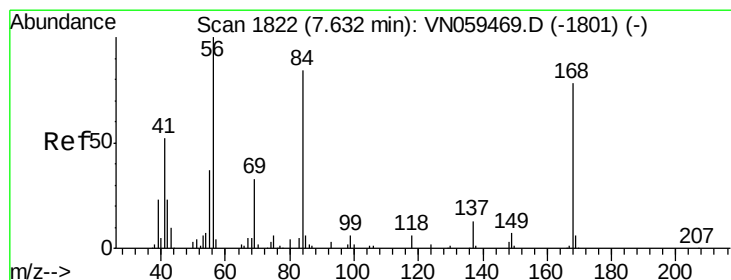
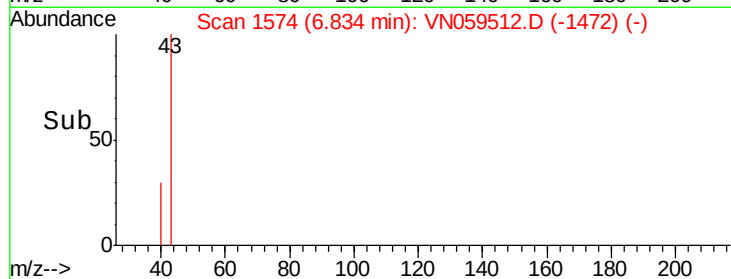
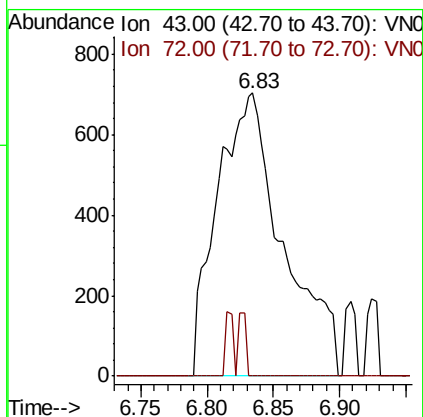
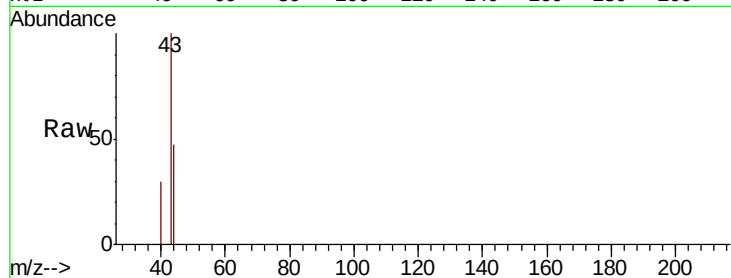




#25
2-Butanone
Concen: 1.136 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.03 min
Lab File: VN059512.D
Acq: 6 Dec 2019 14:09

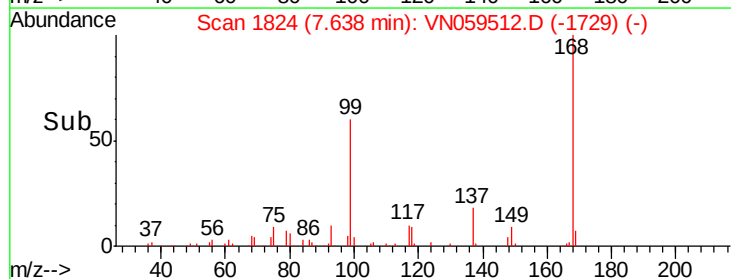
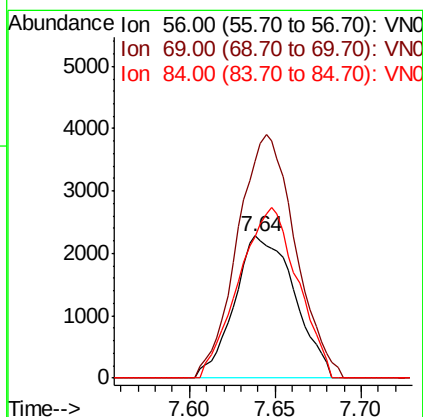
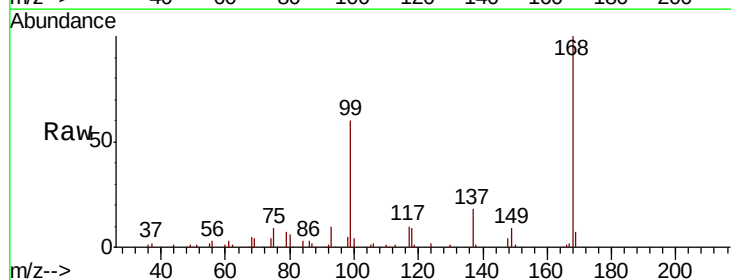
Instrument :
MSVOA_N
ClientSampled :

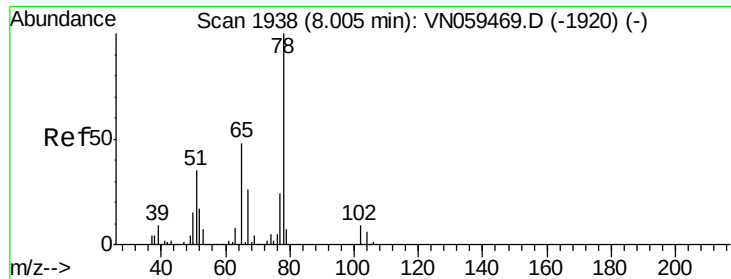
Tot Ion: 43 Resp: 2435
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#



#31
Cyclohexane
Concen: 1.164 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059512.D
Acq: 6 Dec 2019 14:09

Tgt Ion: 56 Resp: 5531
Ion Ratio Lower Upper
56 100
69 152.5 26.2 39.4#
84 99.6 66.8 100.2

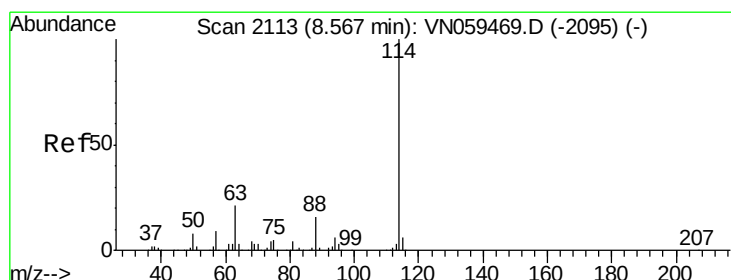
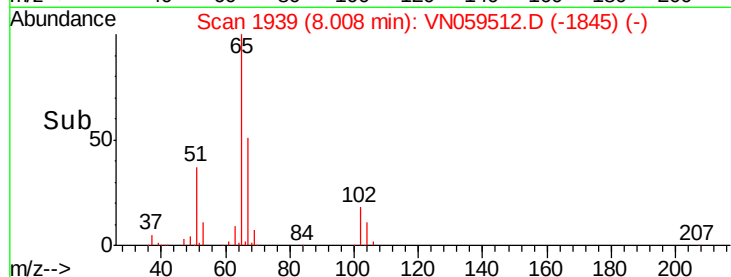
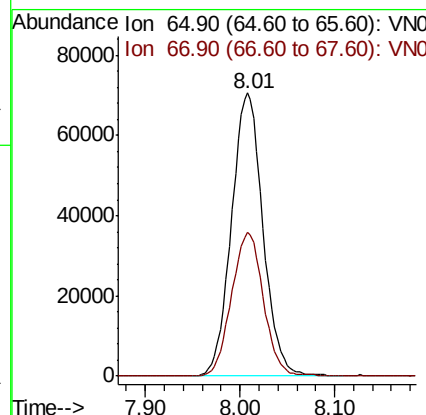
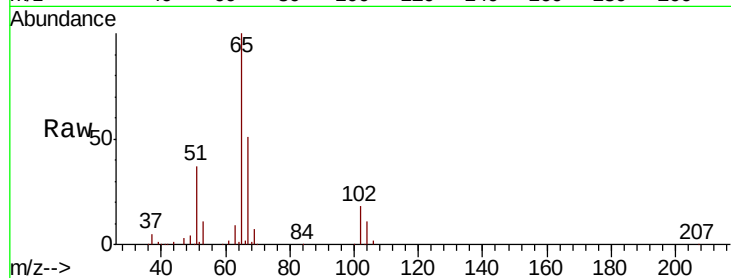




#33
 1,2-Dichloroethane-d4
 Concen: 57.723 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059512.D
 Acq: 6 Dec 2019 14:09

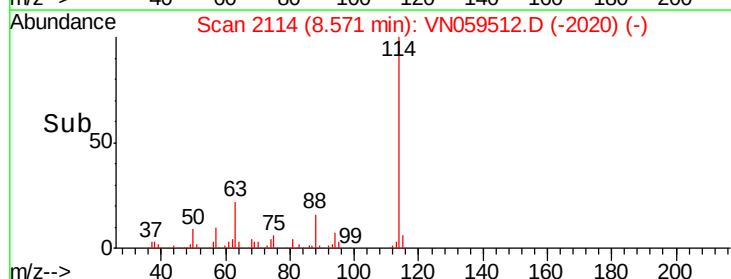
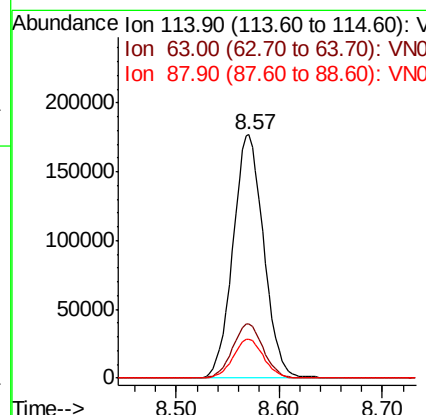
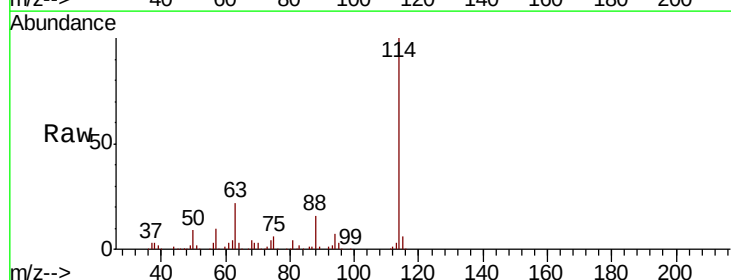
Instrument :
 MSVOA_N
 ClientSampleId :

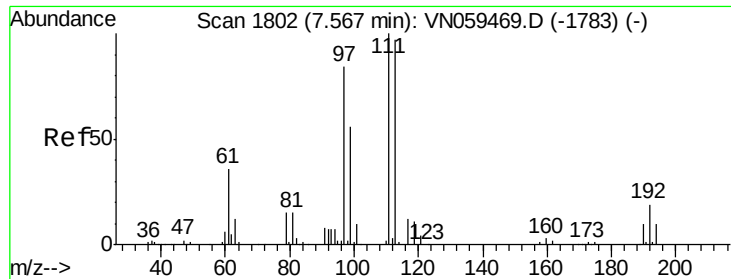
Tot Ion: 65 Resp: 162852
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059512.D
 Acq: 6 Dec 2019 14:09

Tgt Ion: 114 Resp: 367233
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 42.4
 88 16.1 0.0 32.8

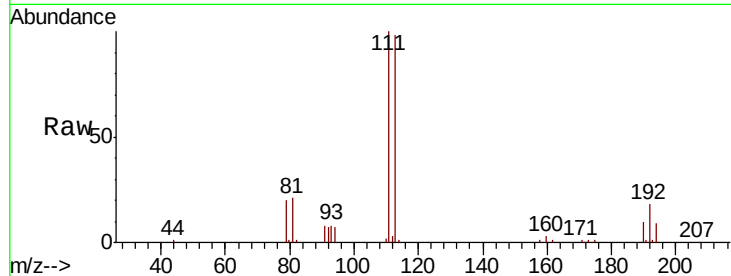




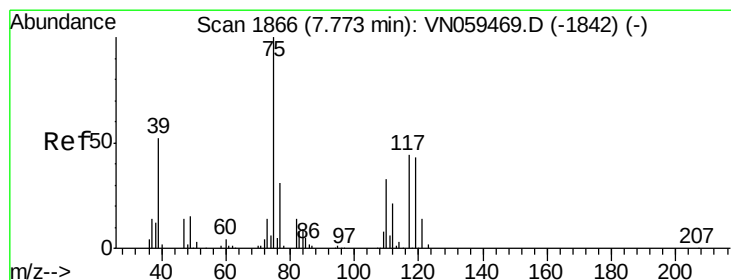
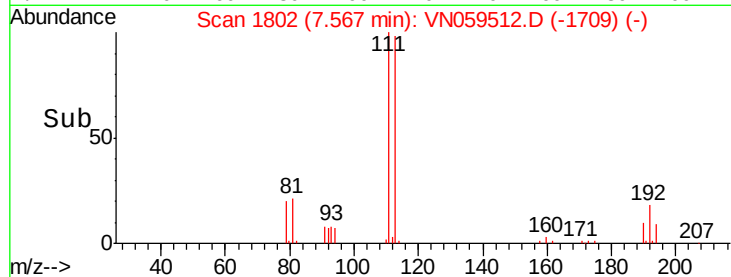
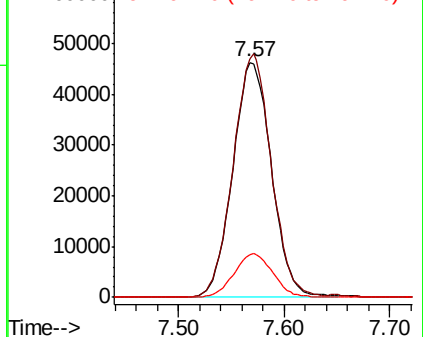
#35
 Dibromofluoromethane
 Concen: 51.684 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059512.D
 Acq: 6 Dec 2019 14:09

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 118212
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.5 123.7
 192 18.6 16.1 24.1

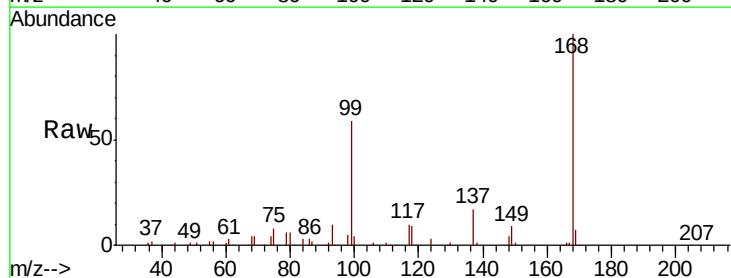


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

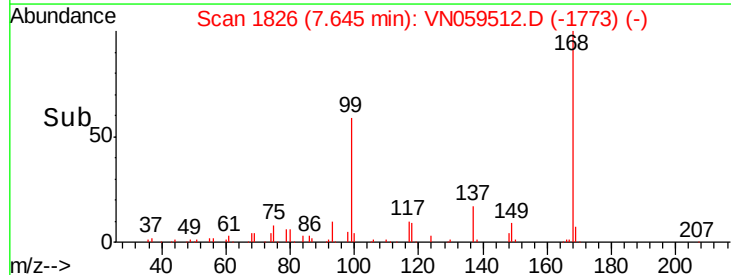
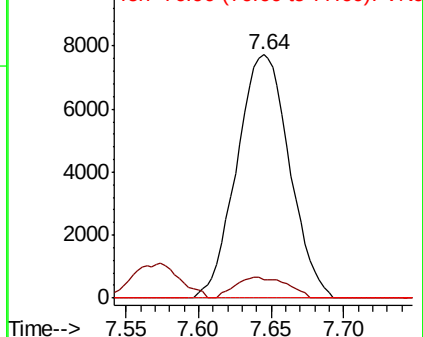


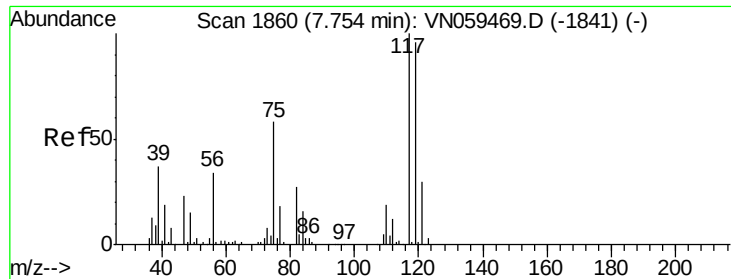
#36
 1,1-Dichloropropene
 Concen: 5.089 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059512.D
 Acq: 6 Dec 2019 14:09

Tgt Ion: 75 Resp: 19449
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.9 50.7#
 77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.311 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059512.D

Acq: 6 Dec 2019 14:09

Instrument :

MSVOA_N

ClientSampled :

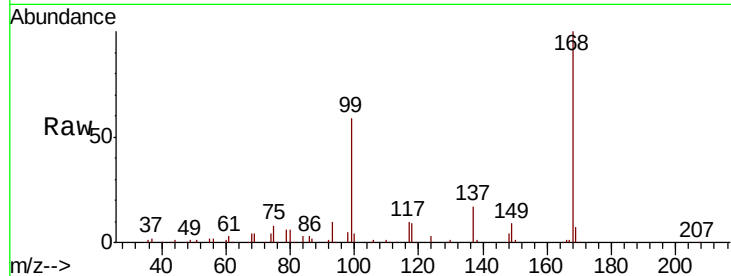
Tot Ion:117 Resp: 23195

Ion Ratio Lower Upper

117 100

119 4.5 76.6 114.8#

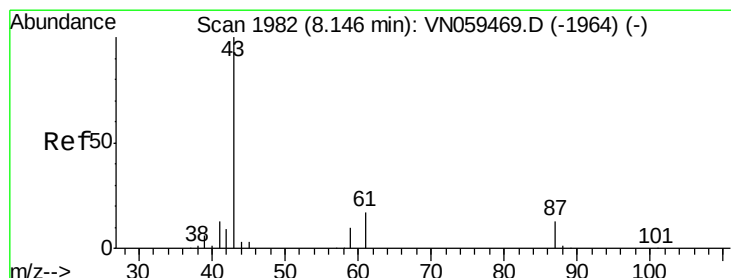
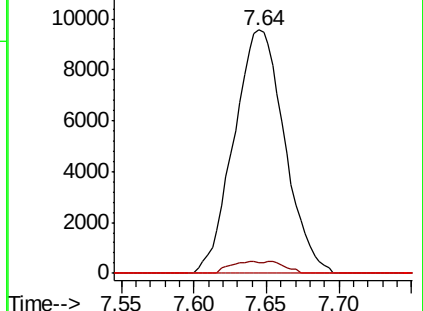
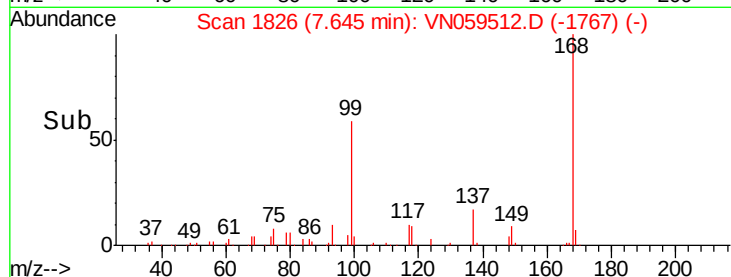
121 0.0 24.0 36.0#



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: 7.888 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059512.D

Acq: 6 Dec 2019 14:09

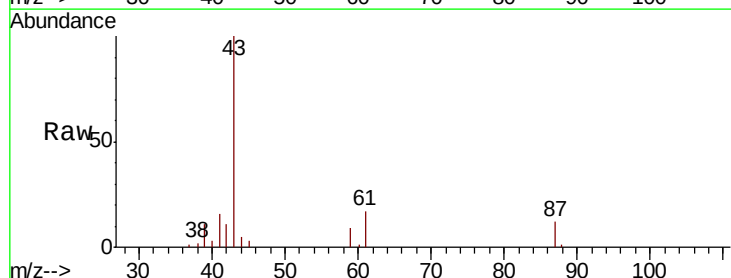
Tgt Ion: 43 Resp: 50079

Ion Ratio Lower Upper

43 100

61 18.3 21.0 31.6#

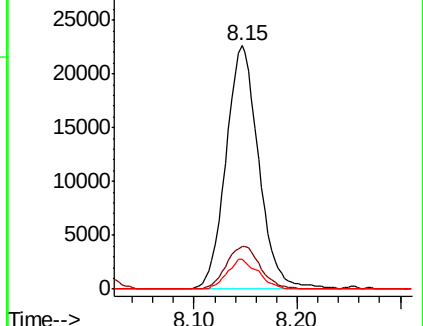
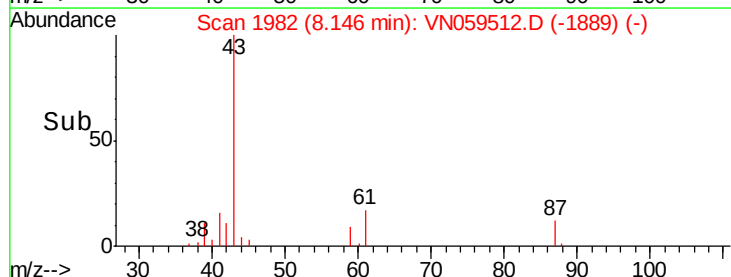
87 11.5 10.4 15.6

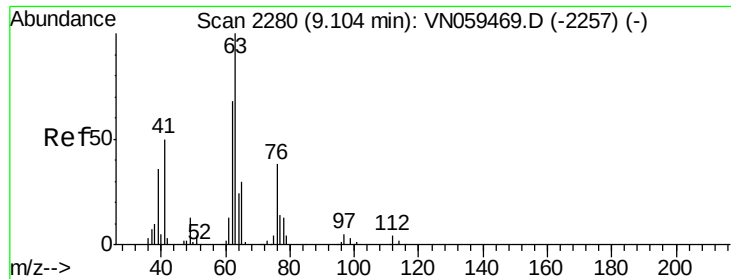


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

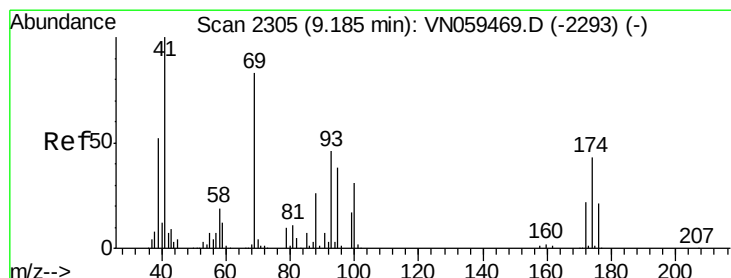
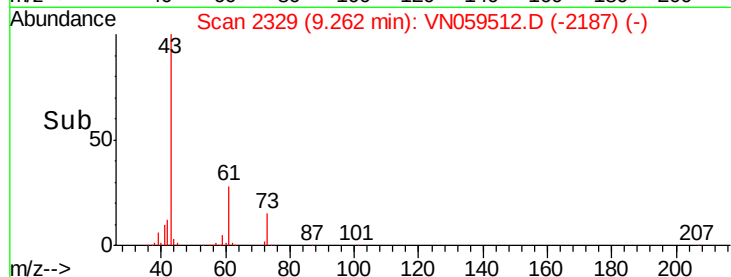
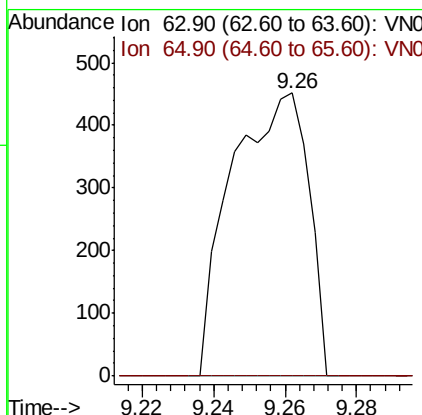
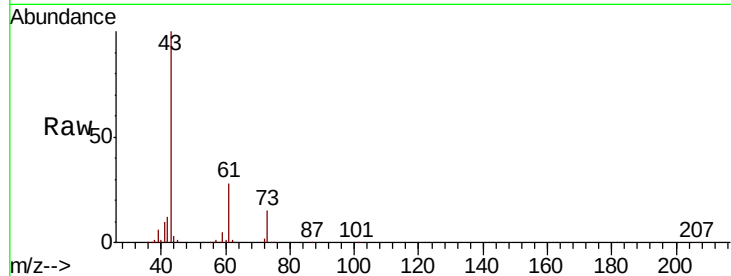




#45
 1,2-Dichloropropane
 Concen: 0.224 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.16 min
 Lab File: VN059512.D
 Acq: 6 Dec 2019 14:09

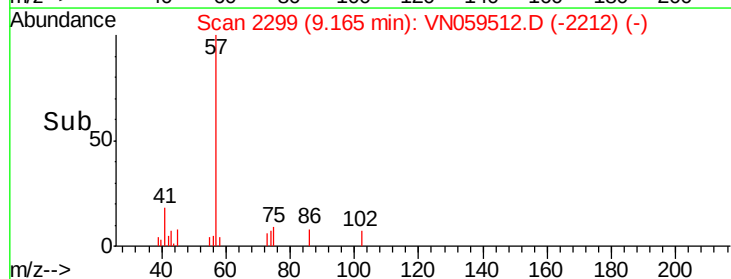
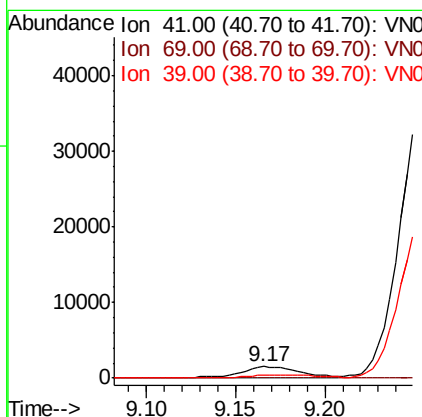
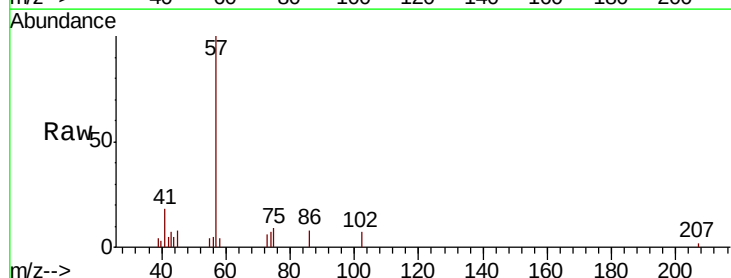
Instrument :
 MSVOA_N
 ClientSampled :

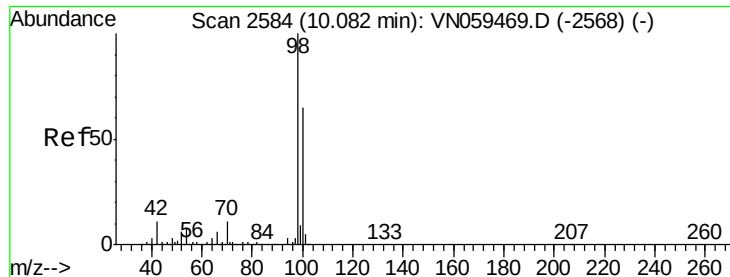
Tot Ion: 63 Resp: 671
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.210 ug/l
 RT: 9.17 min Scan# 2299
 Delta R.T. -0.02 min
 Lab File: VN059512.D
 Acq: 6 Dec 2019 14:09

Tgt Ion: 41 Resp: 3467
 Ion Ratio Lower Upper
 41 100
 69 0.0 68.6 103.0#
 39 0.0 43.2 64.8#





#50

Toluene-d8

Concen: 50.843 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059512.D

Acq: 6 Dec 2019 14:09

Instrument :

MSVOA_N

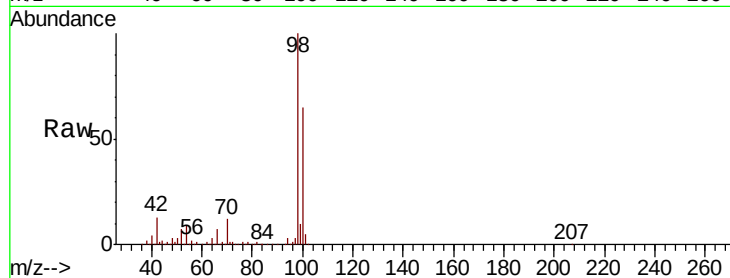
ClientSampled :

Tot Ion: 98 Resp: 458504

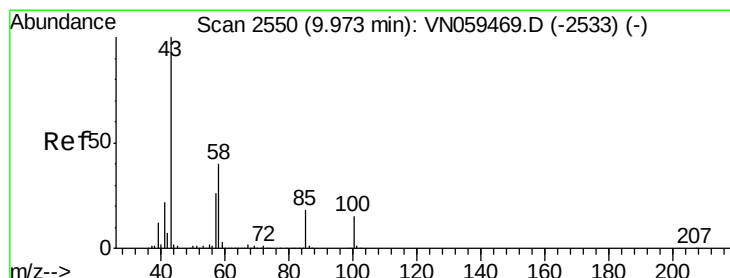
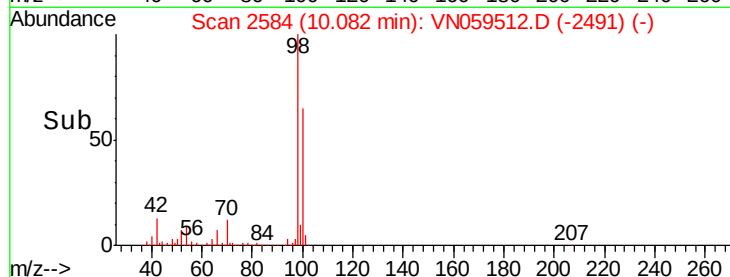
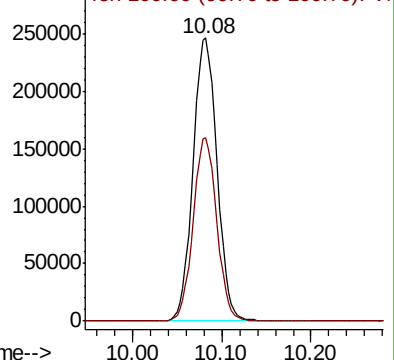
Ion Ratio Lower Upper

98 100

100 63.8 52.1 78.1



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



#51

4-Methyl-2-Pentanone

Concen: 1.251 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059512.D

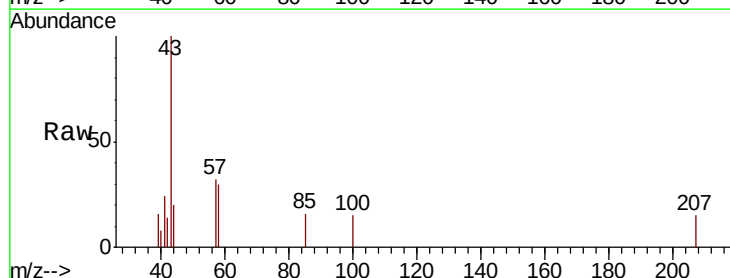
Acq: 6 Dec 2019 14:09

Tgt Ion: 43 Resp: 4716

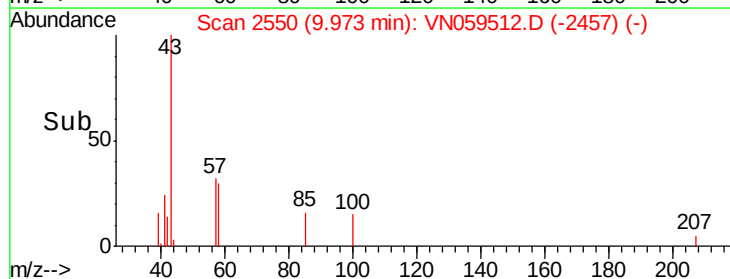
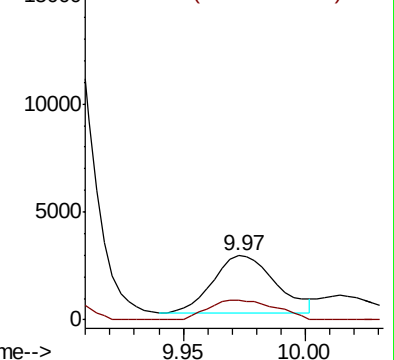
Ion Ratio Lower Upper

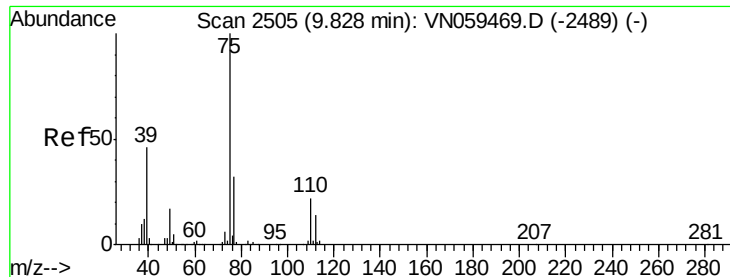
43 100

58 37.0 32.1 48.1



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





#54

cis-1,3-Dichloropropene

Concen: 4.399 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.06 min

Lab File: VN059512.D

Acq: 6 Dec 2019 14:09

Instrument :

MSVOA_N

ClientSampled :

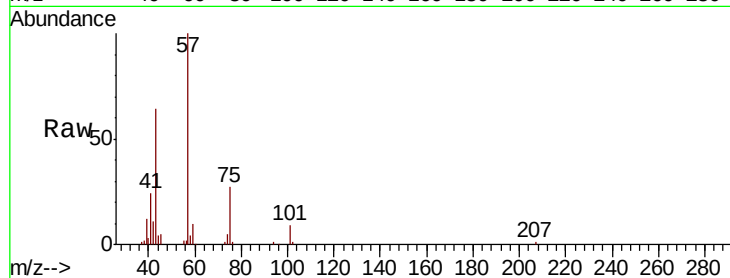
Tot Ion: 75 Resp: 20476

Ion Ratio Lower Upper

75 100

77 0.0 25.7 38.5#

39 42.9 36.6 54.8

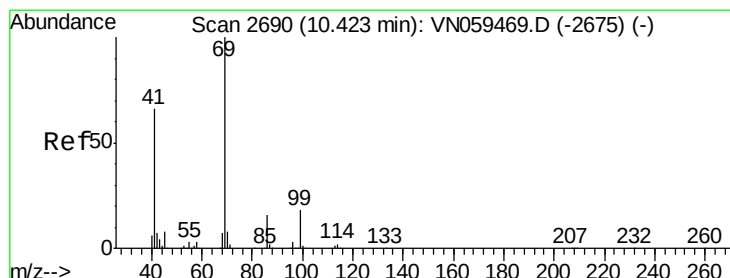
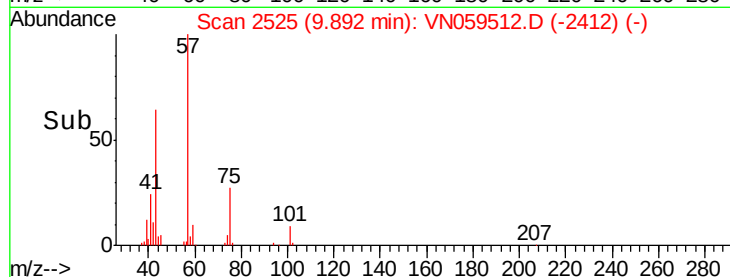
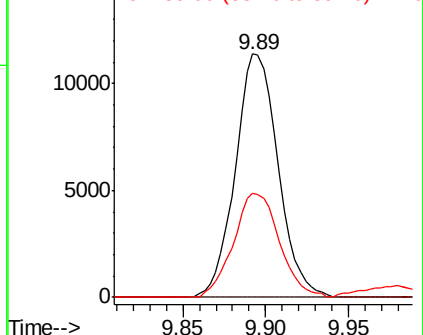


Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 1.675 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.11 min

Lab File: VN059512.D

Acq: 6 Dec 2019 14:09

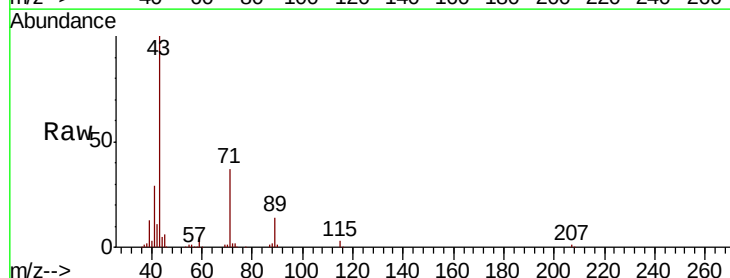
Tgt Ion: 69 Resp: 993

Ion Ratio Lower Upper

69 100

41 5026.4 52.7 79.1#

39 2292.4 25.0 37.6#

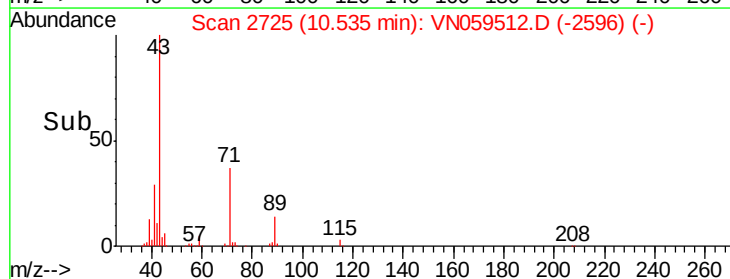
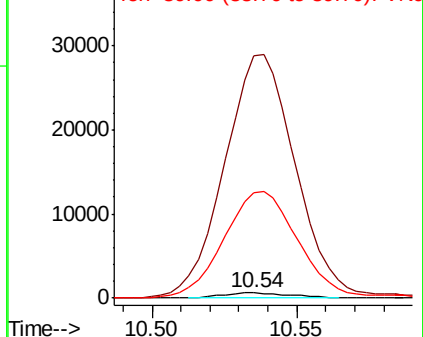


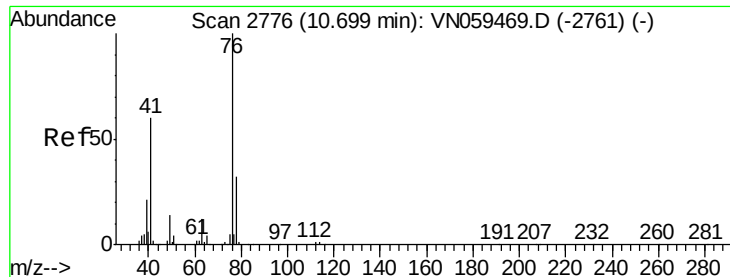
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

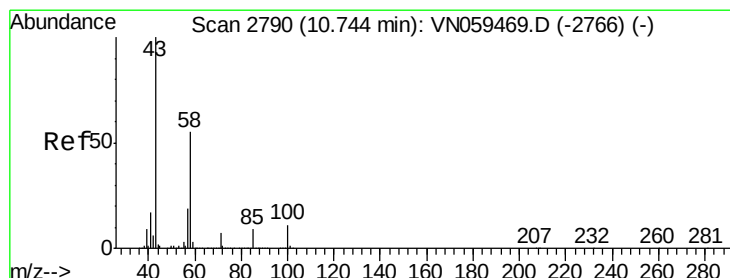
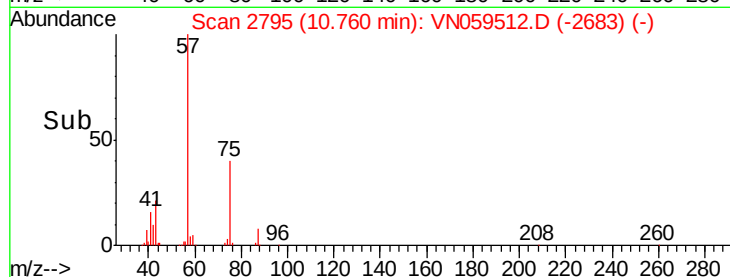
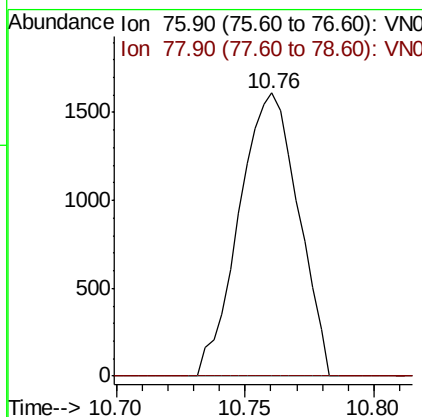
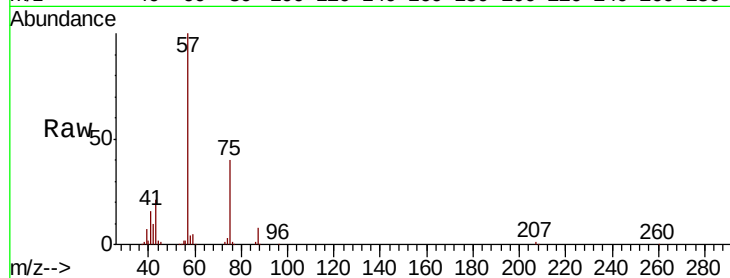




#57
 1,3-Dichloropropane
 Concen: 0.558 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.06 min
 Lab File: VN059512.D
 Acq: 6 Dec 2019 14:09

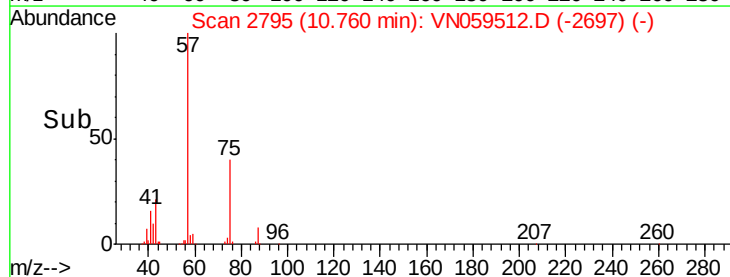
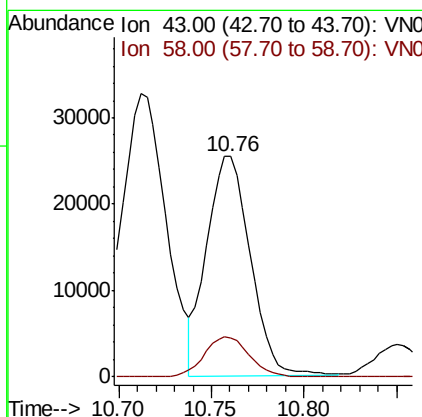
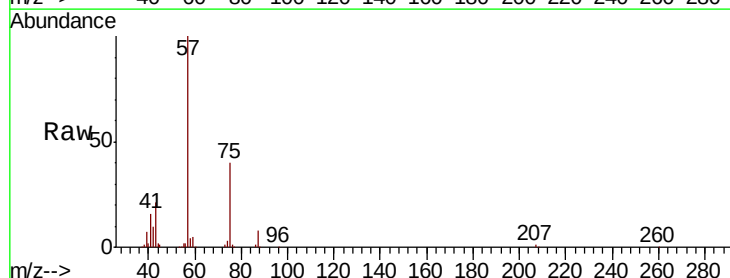
Instrument :
 MSVOA_N
 ClientSampleId :

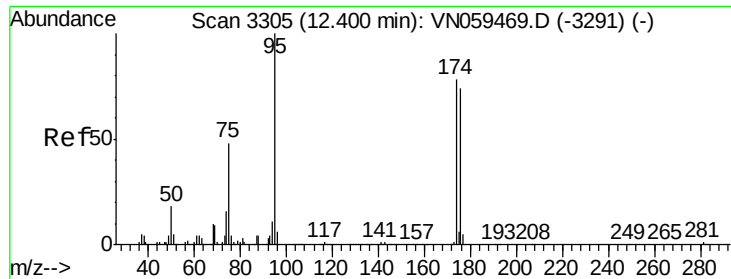
Tot Ion: 76 Resp: 2575
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 14.687 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.02 min
 Lab File: VN059512.D
 Acq: 6 Dec 2019 14:09

Tgt Ion: 43 Resp: 41654
 Ion Ratio Lower Upper
 43 100
 58 18.7 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 45.758 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN059512.D

Acq: 6 Dec 2019 14:09

Instrument :

MSVOA_N

ClientSampled :

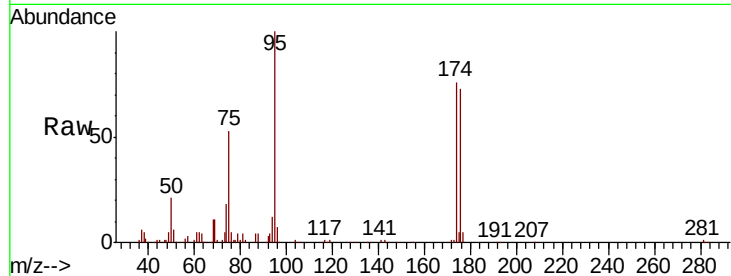
Tot Ion: 95 Resp: 144108

Ion Ratio Lower Upper

95 100

174 77.0 0.0 157.0

176 74.3 0.0 152.4



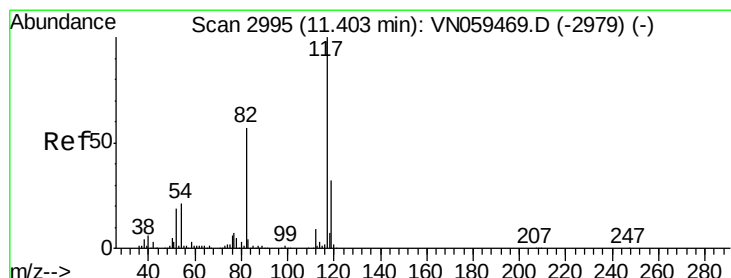
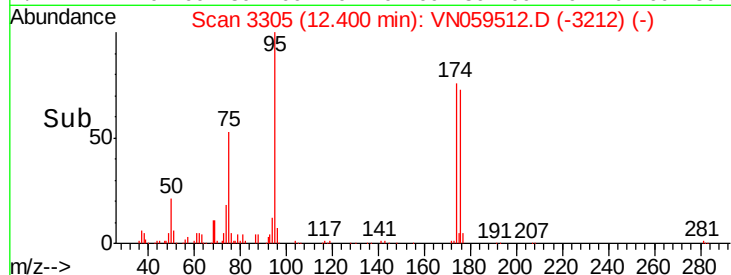
Abundance Ion 94.90 (94.60 to 95.60): VN059469.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN059469.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059469.D (-3291) (-)

12.40

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059512.D

Acq: 6 Dec 2019 14:09

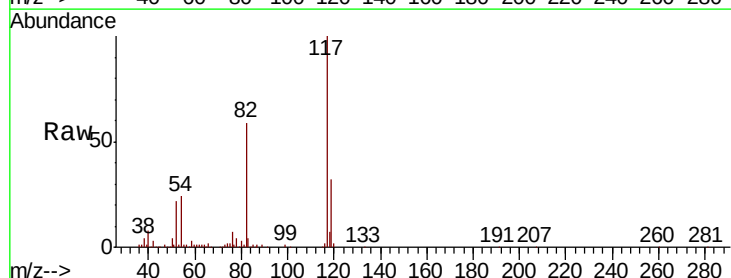
Tgt Ion: 117 Resp: 333250

Ion Ratio Lower Upper

117 100

82 59.0 45.8 68.8

119 31.7 25.4 38.0



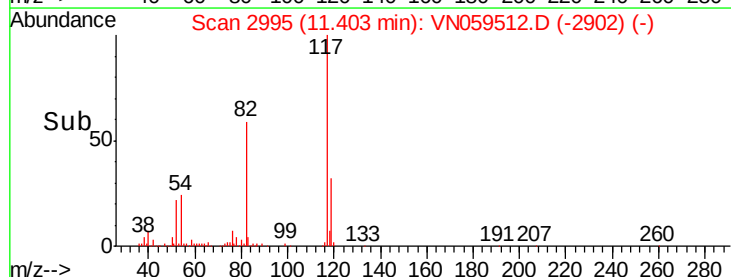
Abundance Ion 116.90 (116.60 to 117.60): VN059469.D (-2979) (-)

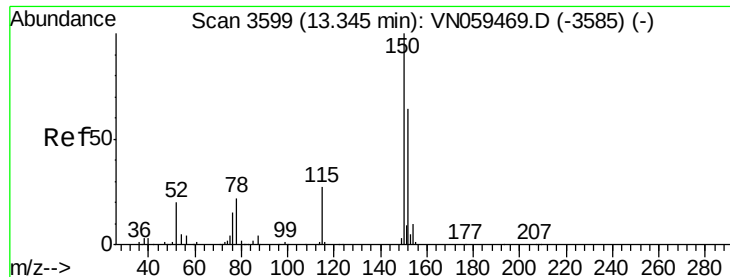
Ion 82.00 (81.70 to 82.70): VN059469.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059469.D (-2979) (-)

11.40

Time-->



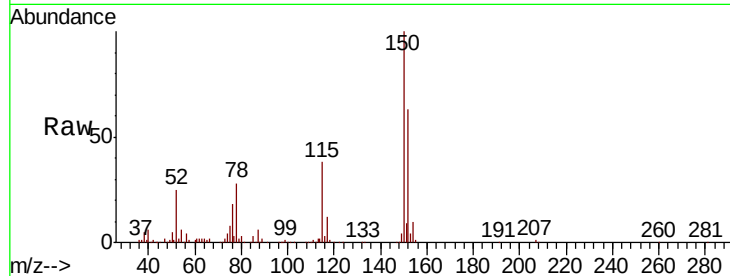


#72

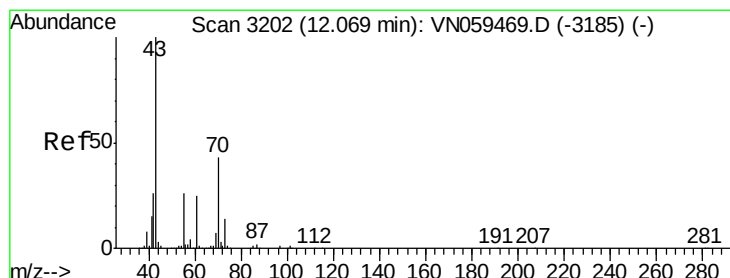
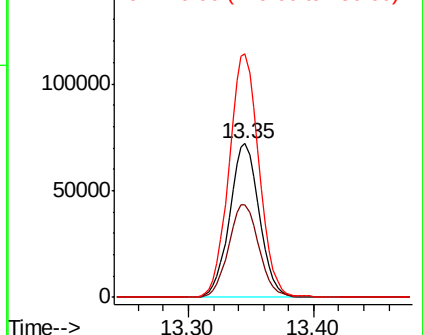
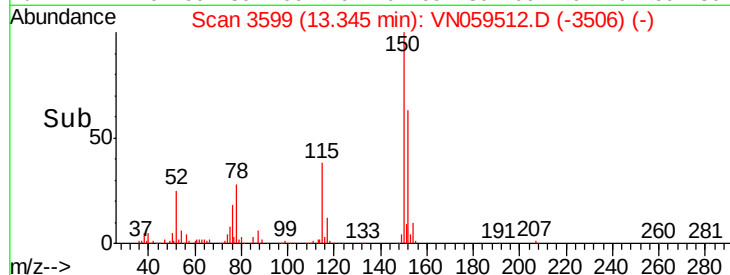
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN059512.D
Acq: 6 Dec 2019 14:09

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:152 Resp: 118324
Ion Ratio Lower Upper
152 100
115 61.6 29.2 87.6
150 159.8 0.0 352.8



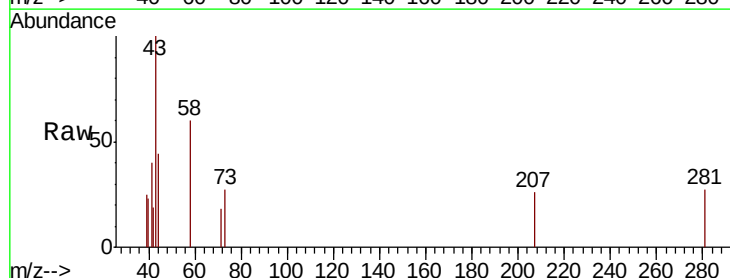
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



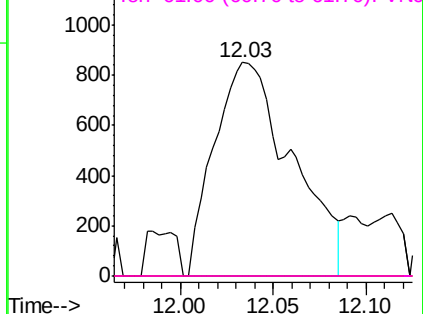
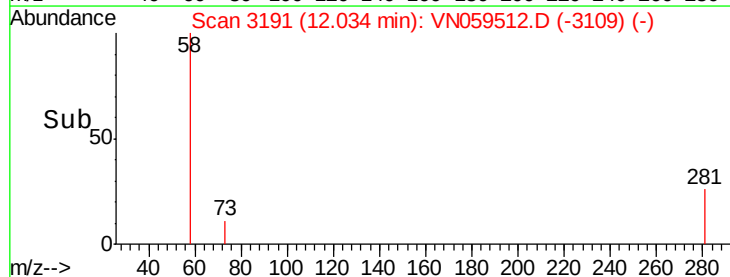
#74

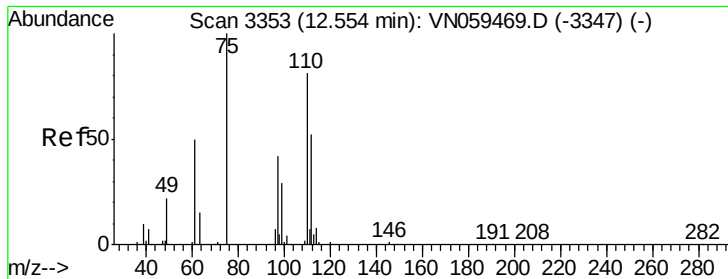
N-ethyl acetate
Concen: 0.649 ug/l
RT: 12.03 min Scan# 3191
Delta R.T. -0.04 min
Lab File: VN059512.D
Acq: 6 Dec 2019 14:09

Tgt Ion: 43 Resp: 2479
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): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 26.382 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059512.D

Acq: 6 Dec 2019 14:09

Instrument :

MSVOA_N

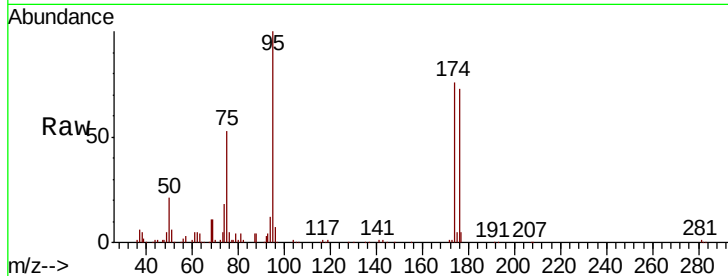
ClientSampled :

Tot Ion: 75 Resp: 77617

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

50000

40000

30000

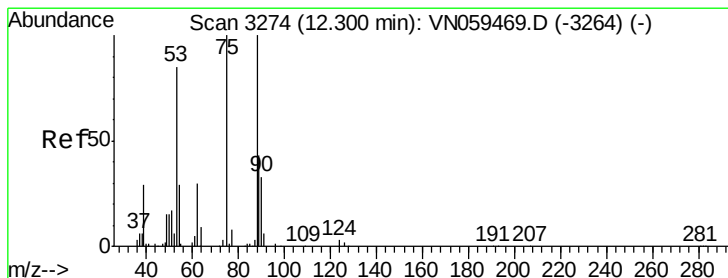
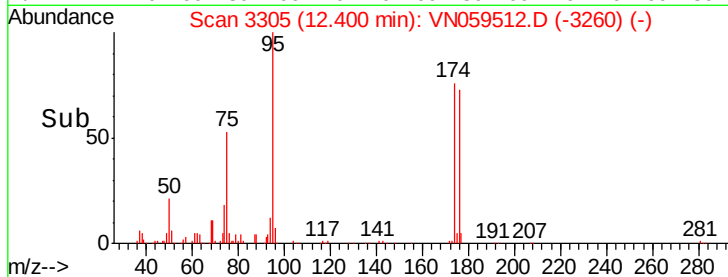
20000

10000

0

Time-->

12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 69.236 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059512.D

Acq: 6 Dec 2019 14:09

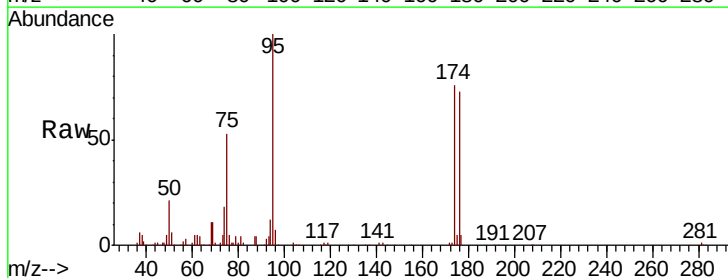
Tgt Ion: 75 Resp: 77617

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.2 52.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

60000

50000

40000

30000

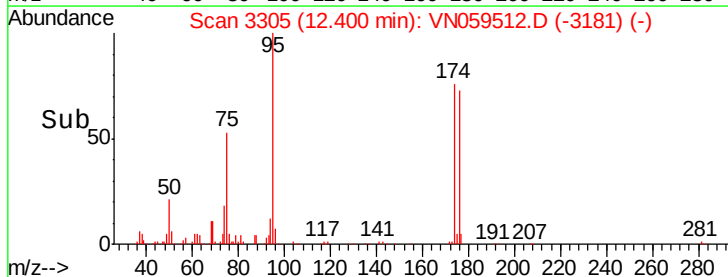
20000

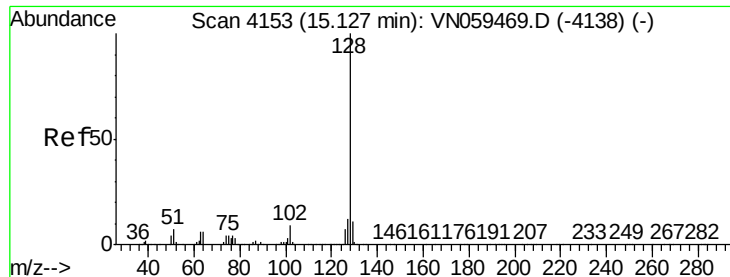
10000

0

Time-->

12.35 12.40 12.45





#95

Naphthalene

Concen: 2.528 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059512.D

Acq: 6 Dec 2019 14:09

Instrument :

MSVOA_N

ClientSampleId :

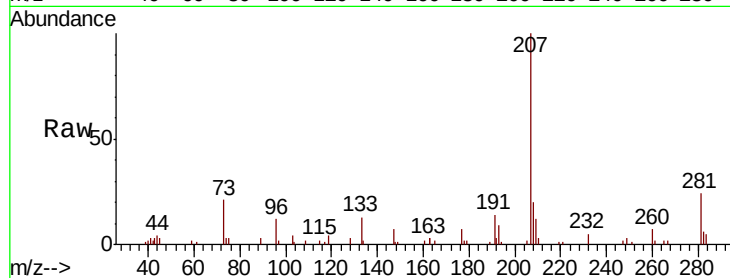
Tot Ion:128 Resp: 716

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

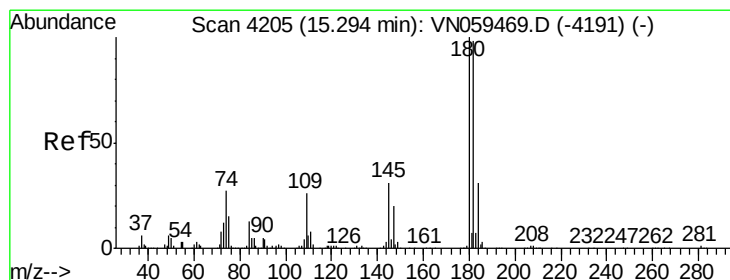
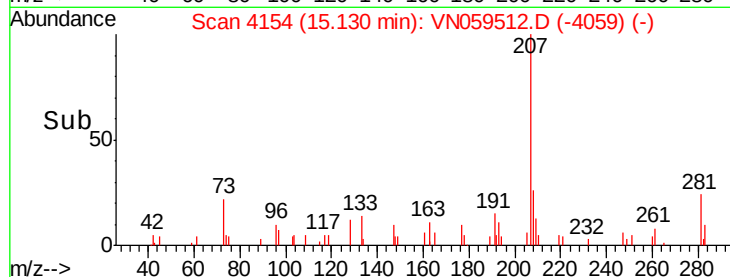
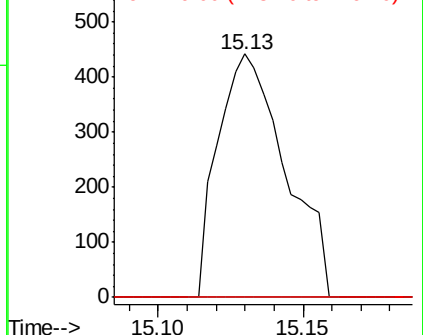
129 0.0 8.8 13.2#



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



#96

1,2,3-Trichlorobenzene

Concen: 1.977 ug/l

RT: 15.54 min Scan# 4280

Delta R.T. 0.24 min

Lab File: VN059512.D

Acq: 6 Dec 2019 14:09

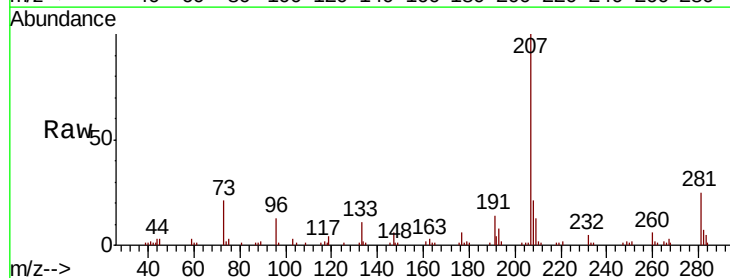
Tgt Ion:180 Resp: 29

Ion Ratio Lower Upper

180 100

182 0.0 48.5 145.5#

145 658.6 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

