

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022820\
 Data File : VN060285.D
 Acq On : 28 Feb 2020 15:26
 Operator : JC/MD
 Sample : PB127123ZHE#16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

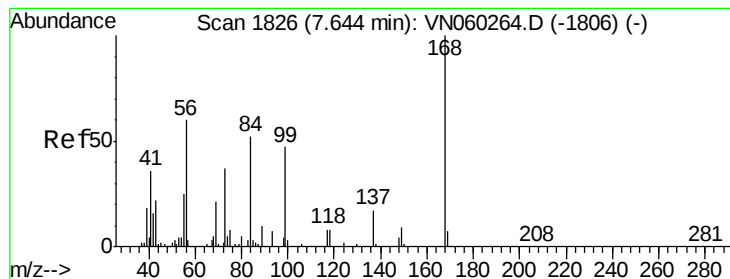
Quant Time: Feb 29 00:37:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	206748	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	337611	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	319377	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	150776	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	129327	48.75	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.50%	
35) Dibromofluoromethane	7.57	113	93613	59.74	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	119.48%	
50) Toluene-d8	10.08	98	413720	52.16	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.32%	
62) 4-Bromofluorobenzene	12.40	95	158147	52.60	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	732	1.858	ug/l #	73
12) 1,1-Dichloroethene	3.69	96	62	Below Cal	#	1
16) Acetone	3.78	43	8853	10.335	ug/l	95
17) Carbon Disulfide	4.03	76	29	Below Cal	#	75
18) Methyl Acetate	4.29	43	1832	0.641	ug/l #	52
20) Methylene Chloride	4.52	84	14456	6.145	ug/l	94
21) trans-1,2-Dichloroethene	5.09	96	30	Below Cal	#	1
25) 2-Butanone	6.80	43	7318	5.289	ug/l	96
31) Cyclohexane	7.64	56	4559	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	16325	5.074	ug/l #	50
38) Carbon Tetrachloride	7.64	117	20508	6.546	ug/l #	16
43) Isopropyl Acetate	8.14	43	53028	9.942	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	670	0.274	ug/l #	44
48) Methyl methacrylate	9.16	41	3507	1.442	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3625	1.199	ug/l #	87
52) Toluene	10.14	92	1238	0.210	ug/l	81
54) cis-1,3-Dichloropropene	9.89	75	22783	5.553	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	3885	1.007	ug/l #	42
59) 2-Hexanone	10.75	43	60000	27.022	ug/l #	55
74) N-amyl acetate	12.02	43	3554	0.728	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	81497	24.636	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2612	0.278	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	81497	68.007	ug/l #	8
87) 1,3-Dichlorobenzene	13.27	146	206	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.36	146	180	Below Cal	#	1
95) Naphthalene	15.13	128	445	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.32	180	30	Below Cal	#	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

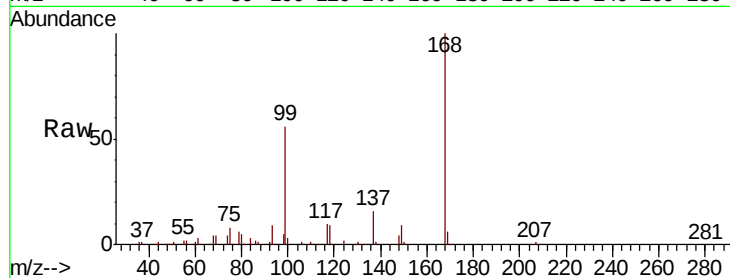
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 206748

Ion Ratio Lower Upper

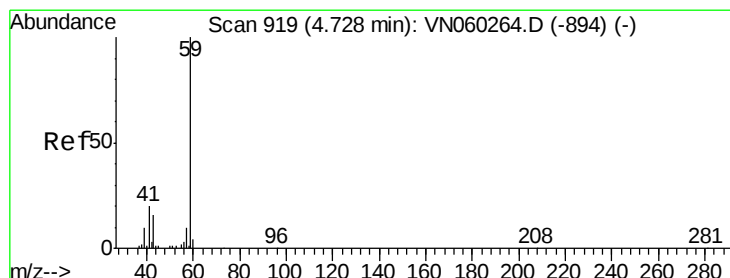
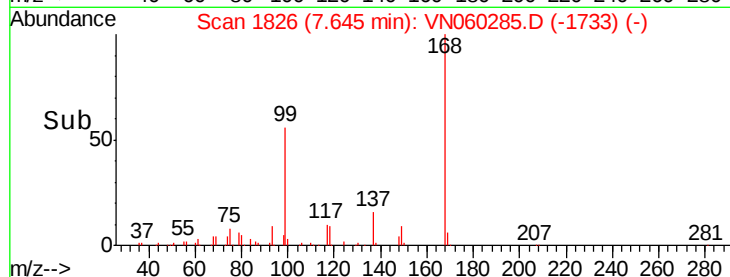
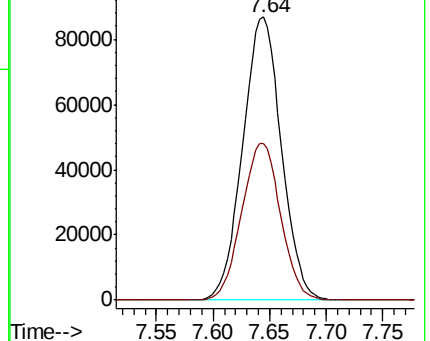
168 100

99 55.6 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 1.858 ug/l

RT: 4.74 min Scan# 922

Delta R.T. 0.01 min

Lab File: VN060285.D

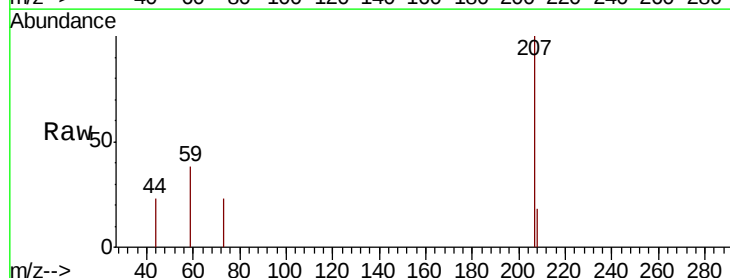
Acq: 28 Feb 2020 15:26

Tgt Ion: 59 Resp: 732

Ion Ratio Lower Upper

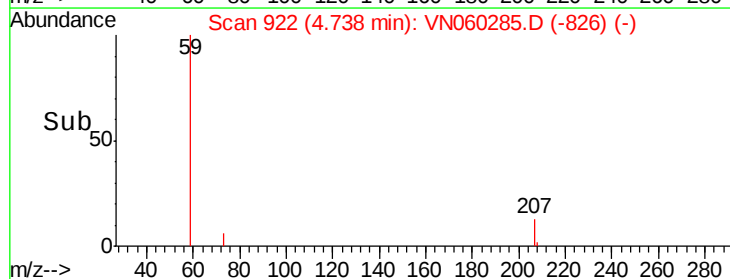
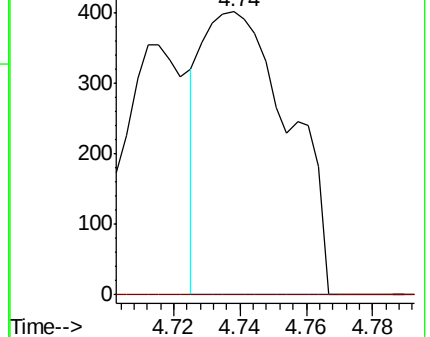
59 100

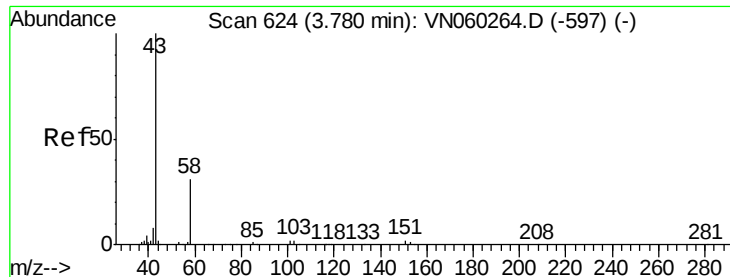
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 10.335 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

Instrument :

MSVOA_N

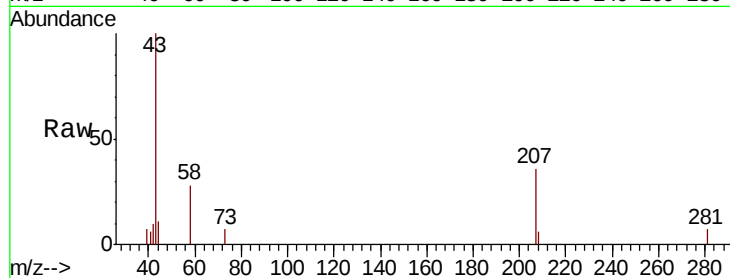
ClientSampled :

Tot Ion: 43 Resp: 8853

Ion Ratio Lower Upper

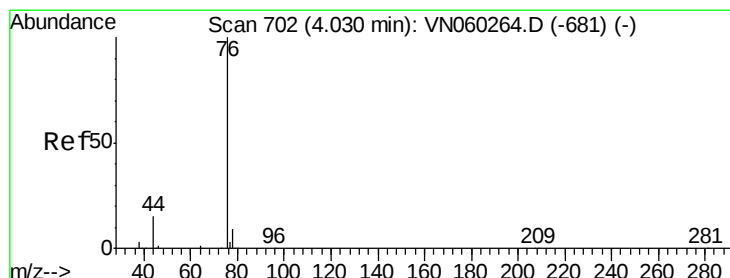
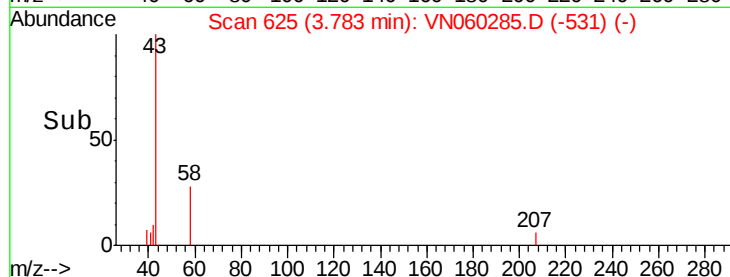
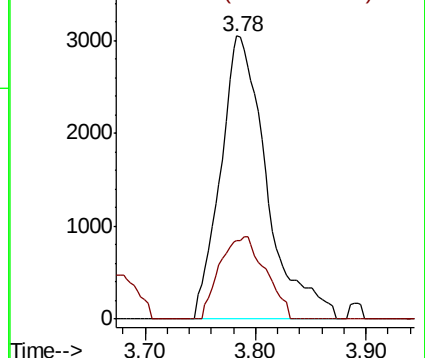
43 100

58 27.7 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060264.D (-597) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN060285.D

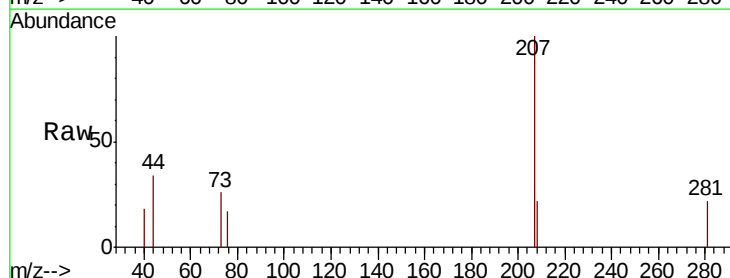
Acq: 28 Feb 2020 15:26

Tgt Ion: 76 Resp: 29

Ion Ratio Lower Upper

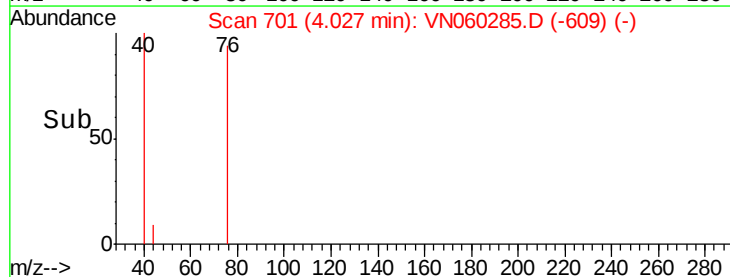
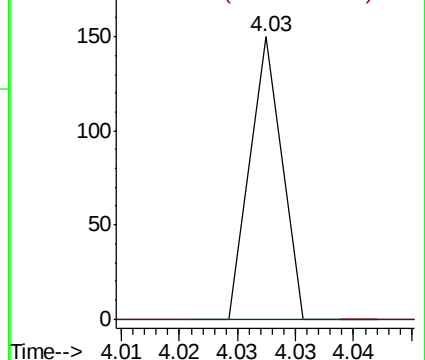
76 100

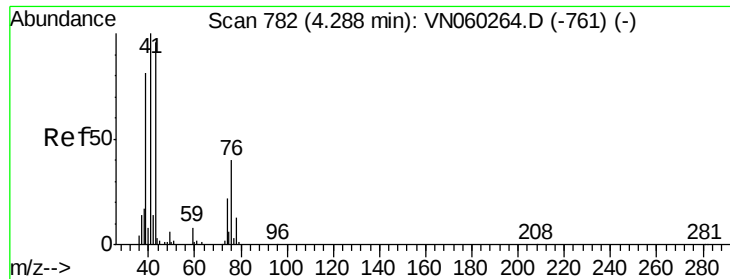
78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060264.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN060264.D (-681) (-)

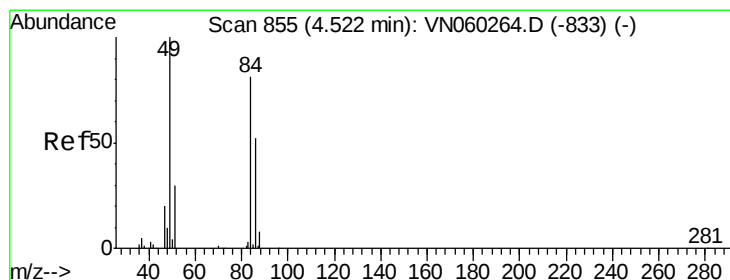
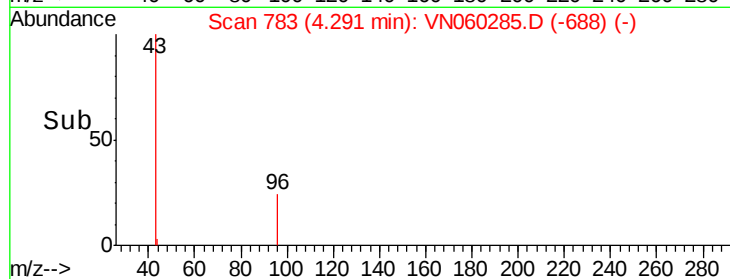
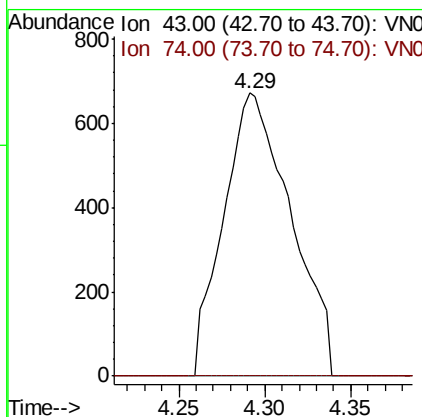
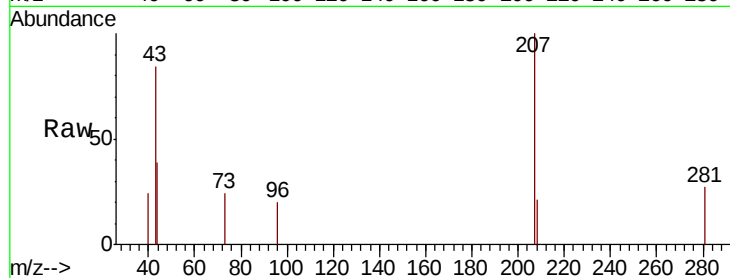




#18
Methyl Acetate
Concen: 0.641 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060285.D
Acq: 28 Feb 2020 15:26

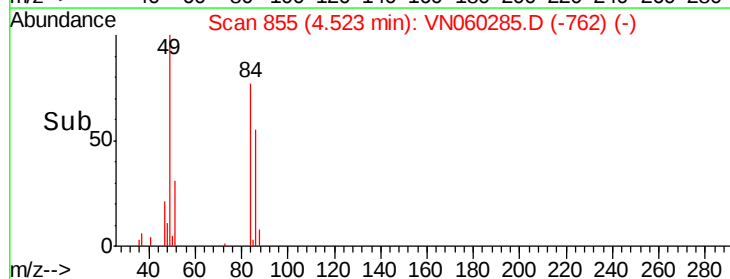
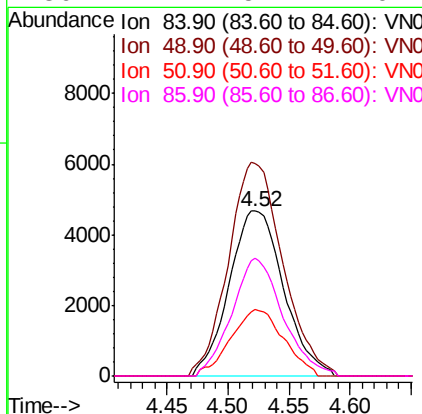
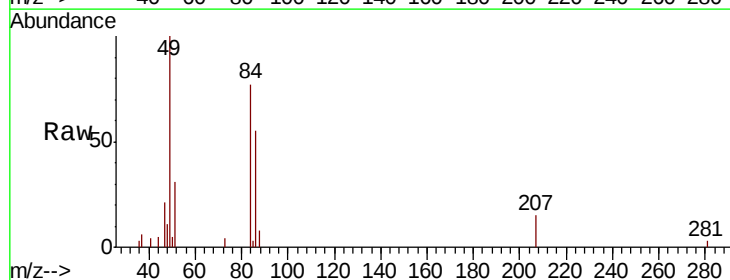
Instrument :
MSVOA_N
ClientSampleId :

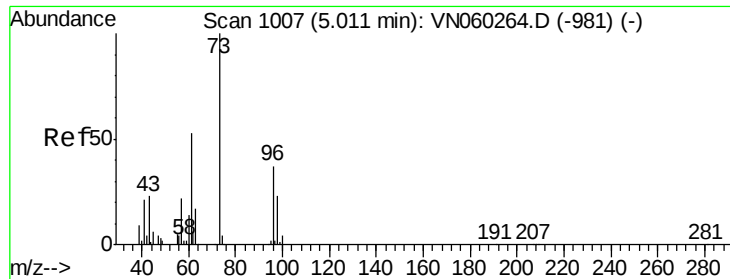
Tot Ion: 43 Resp: 1832
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 6.145 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060285.D
Acq: 28 Feb 2020 15:26

Tgt Ion: 84 Resp: 14456
Ion Ratio Lower Upper
84 100
49 129.2 99.3 148.9
51 40.2 30.1 45.1
86 71.7 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 5.09 min Scan# 1032

Delta R.T. 0.08 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

Instrument :

MSVOA_N

ClientSampled :

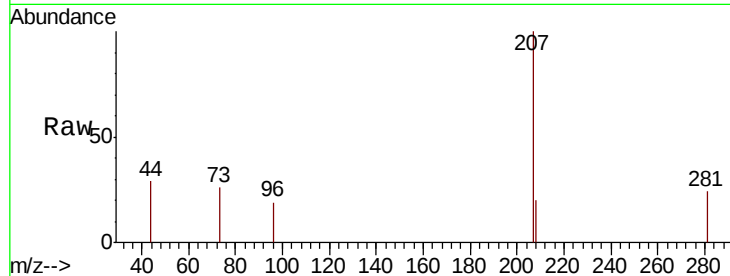
Tot Ion: 96 Resp: 30

Ion Ratio Lower Upper

96 100

61 0.0 113.8 170.8#

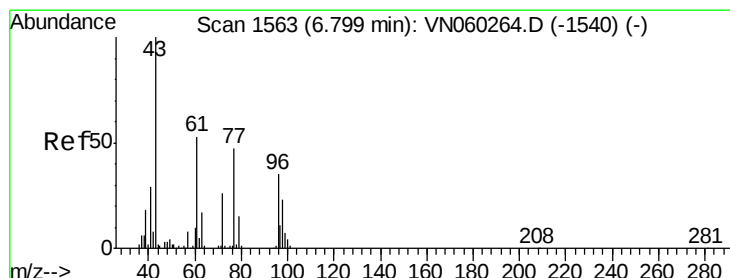
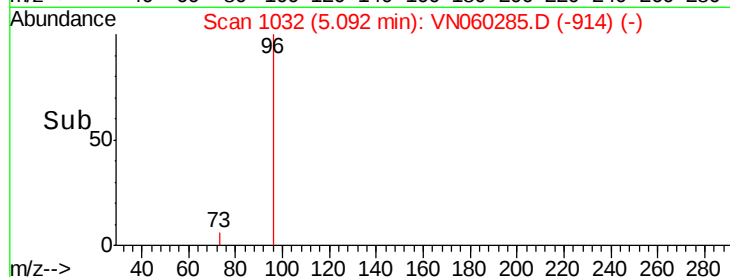
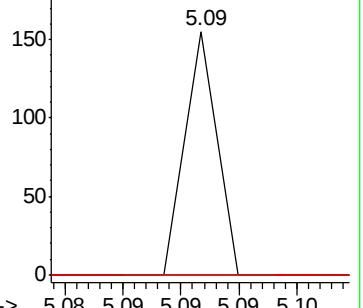
98 0.0 48.8 73.2#



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#25

2-Butanone

Concen: 5.289 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN060285.D

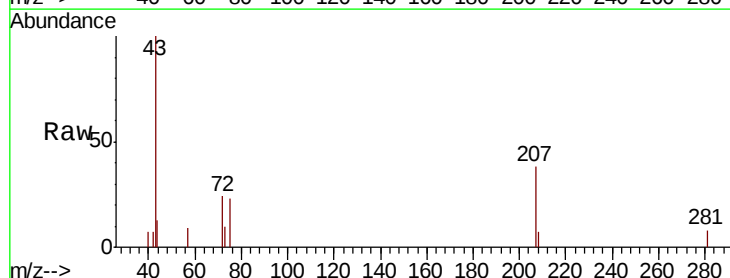
Acq: 28 Feb 2020 15:26

Tgt Ion: 43 Resp: 7318

Ion Ratio Lower Upper

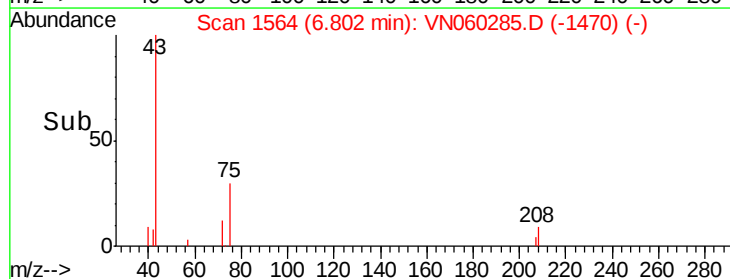
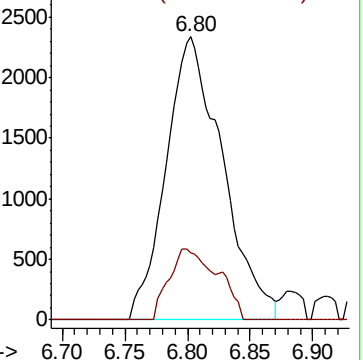
43 100

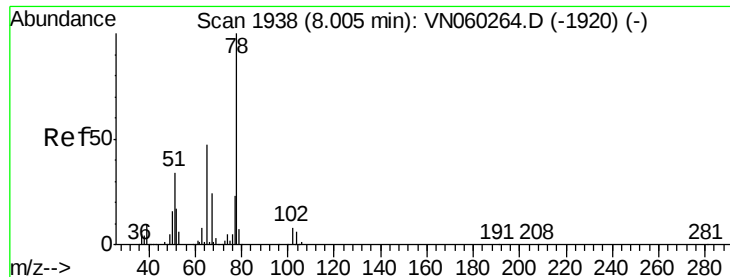
72 23.8 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 48.755 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

Instrument :

MSVOA_N

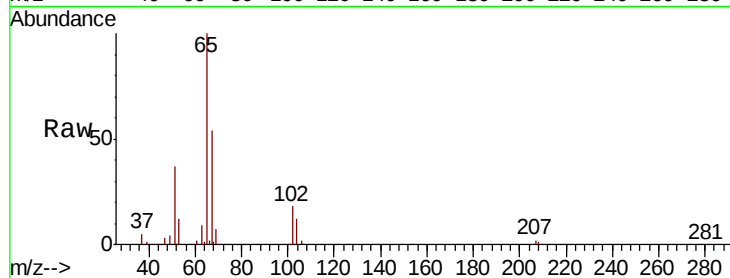
ClientSampled :

Tot Ion: 65 Resp: 129327

Ion Ratio Lower Upper

65 100

67 53.2 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN060264.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060264.D (-1920) (-)

8.00

60000

50000

40000

30000

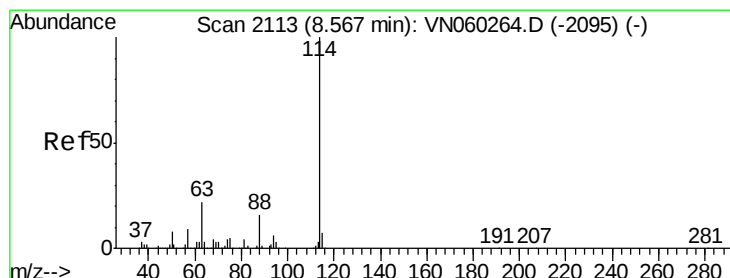
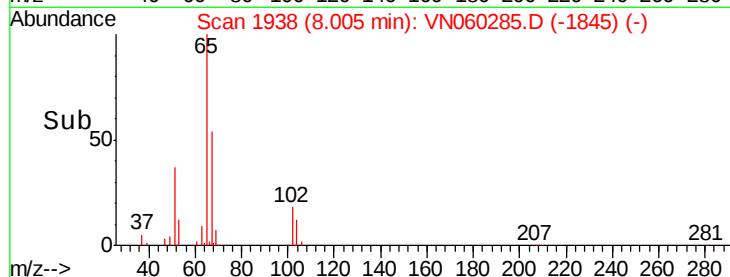
20000

10000

0

7.90 7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

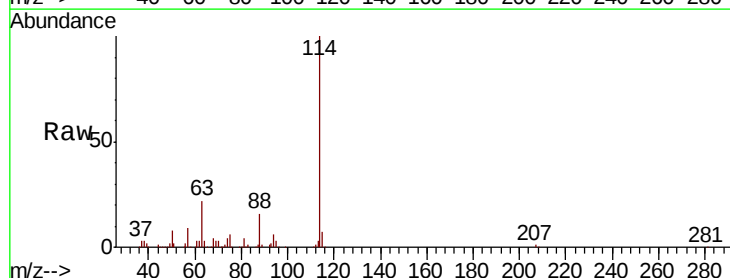
Tgt Ion: 114 Resp: 337611

Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.2

88 15.7 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): VN060264.D (-2095) (-)

Ion 63.00 (62.70 to 63.70): VN060264.D (-2095) (-)

Ion 87.90 (87.60 to 88.60): VN060264.D (-2095) (-)

8.57

200000

150000

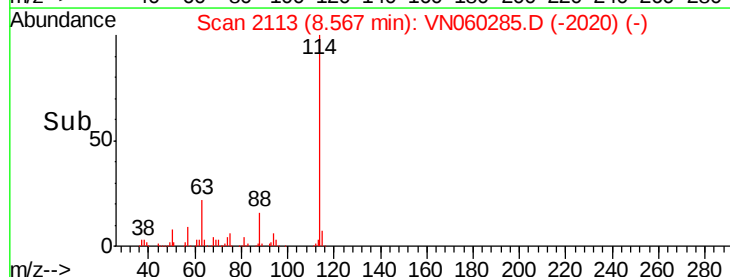
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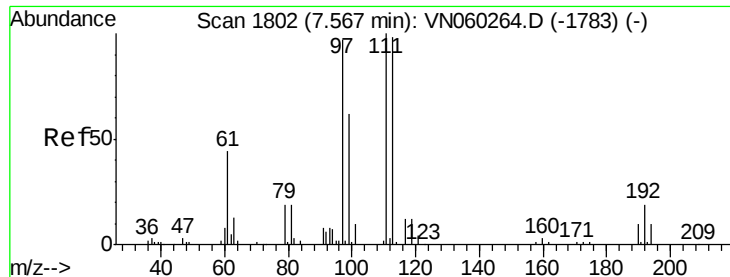
50000

0

8.50 8.55 8.60 8.65 8.70

Time-->

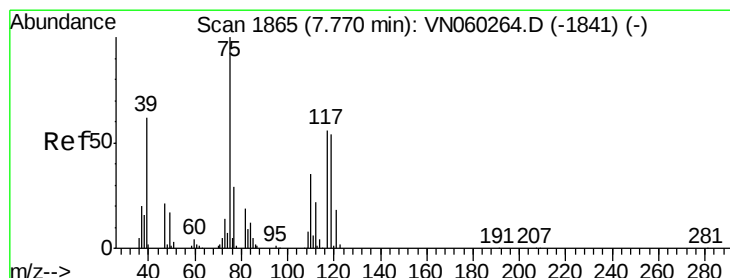
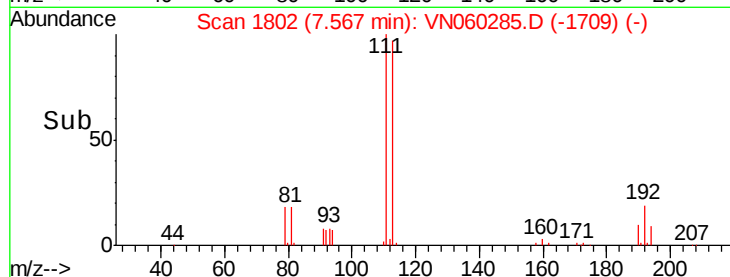
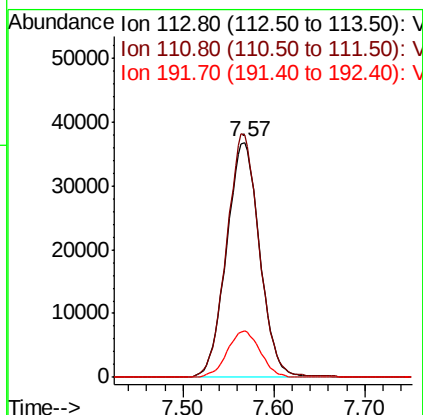
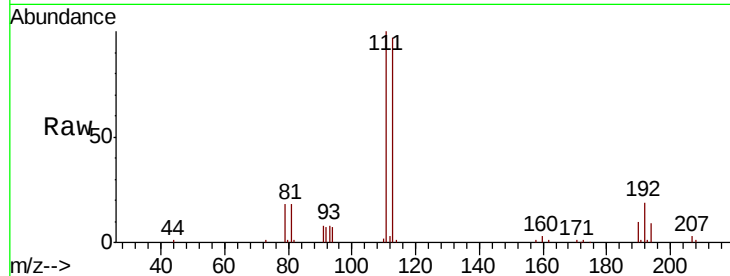




#35
 Dibromofluoromethane
 Concen: 59.737 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060285.D
 Acq: 28 Feb 2020 15:26

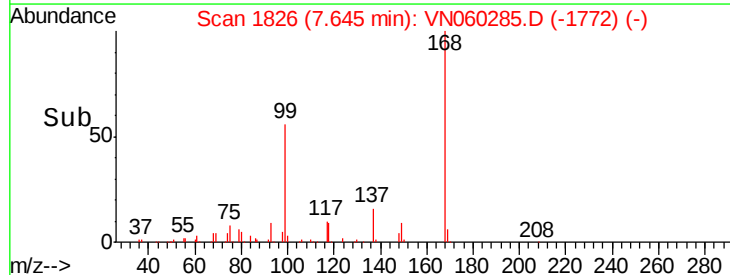
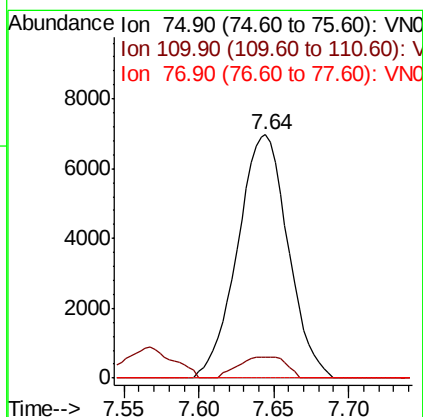
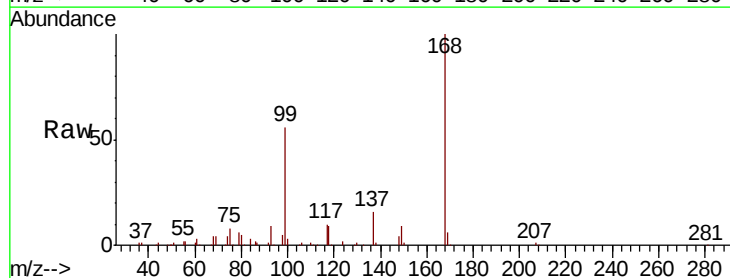
Instrument :
 MSVOA_N
 ClientSampleId :

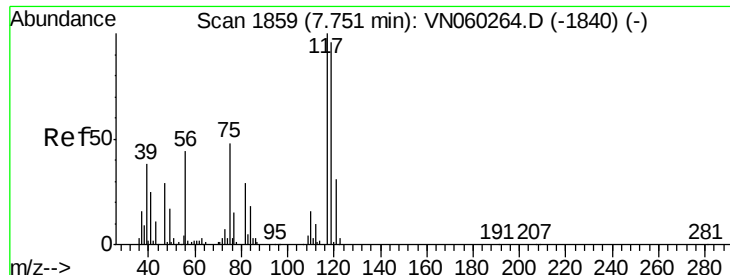
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.4	123.6
192	19.4	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 5.074 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060285.D
 Acq: 28 Feb 2020 15:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.3	52.0#
77	0.0	24.2	36.2#





#38

Carbon Tetrachloride

Concen: 6.546 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

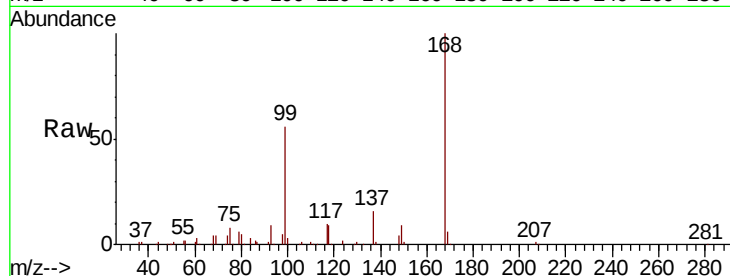
Tot Ion:117 Resp: 20508

Ion Ratio Lower Upper

117 100

119 4.7 76.7 115.1#

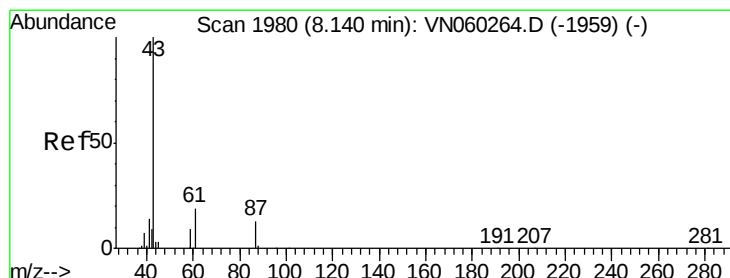
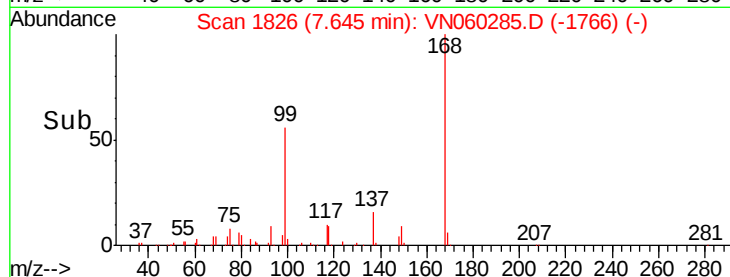
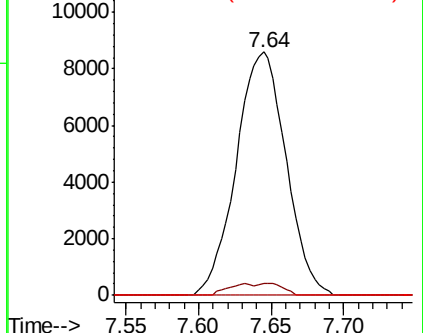
121 0.0 24.5 36.7#



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: 9.942 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

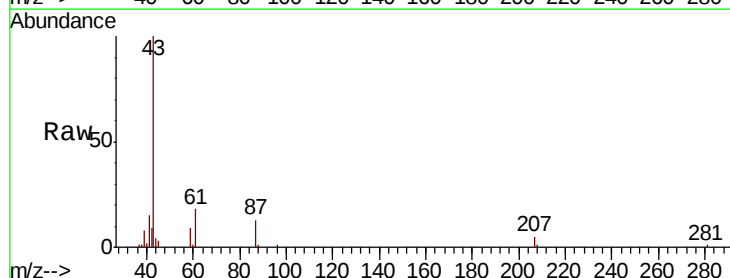
Tgt Ion: 43 Resp: 53028

Ion Ratio Lower Upper

43 100

61 18.9 20.9 31.3#

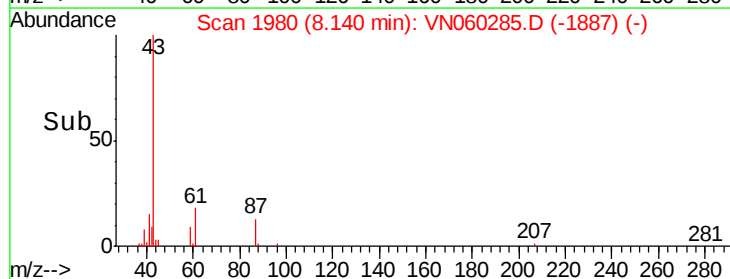
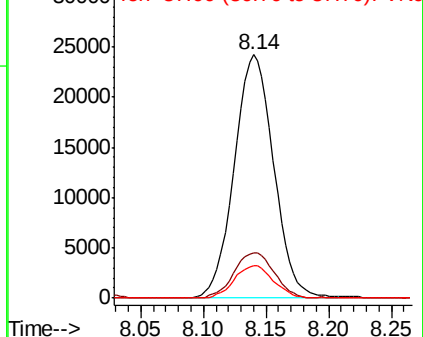
87 13.1 10.6 16.0

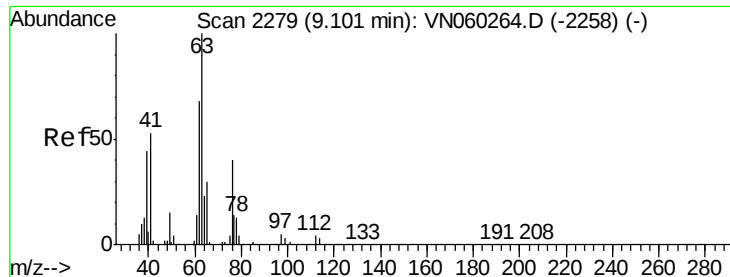


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.274 ug/l

RT: 9.24 min Scan# 2323

Delta R.T. 0.14 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

Instrument :

MSVOA_N

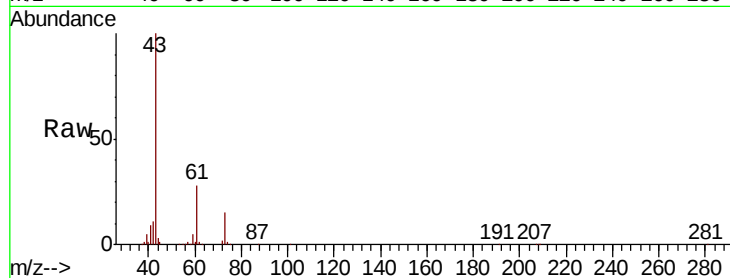
ClientSampleId :

Tot Ion: 63 Resp: 670

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

9.24

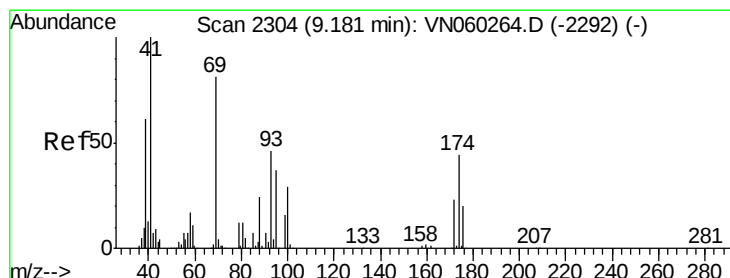
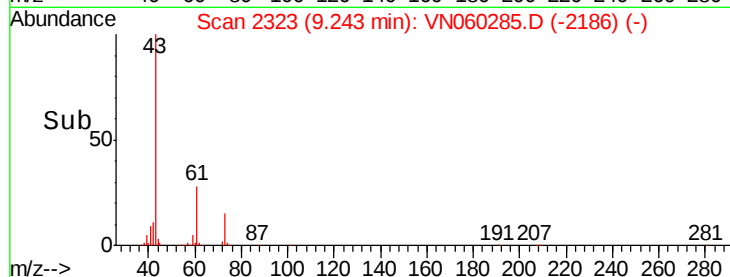
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.442 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

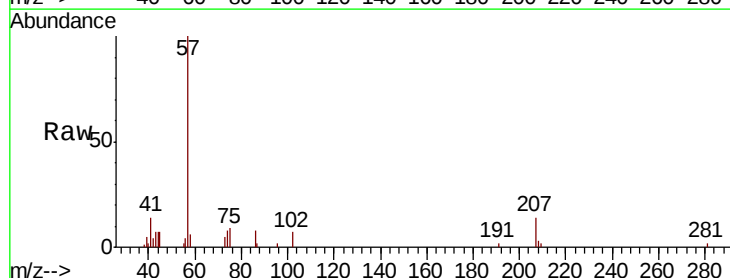
Tgt Ion: 41 Resp: 3507

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



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

40000

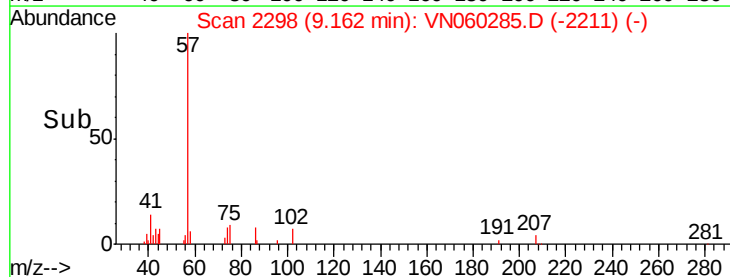
30000

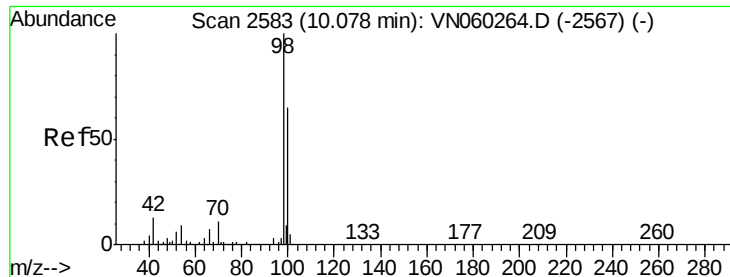
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 52.164 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

Instrument :

MSVOA_N

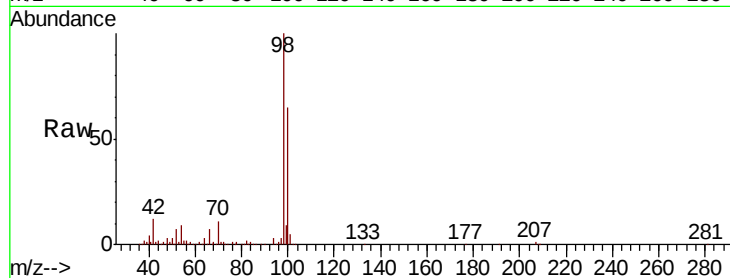
ClientSampled :

Tot Ion: 98 Resp: 413720

Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

250000

200000

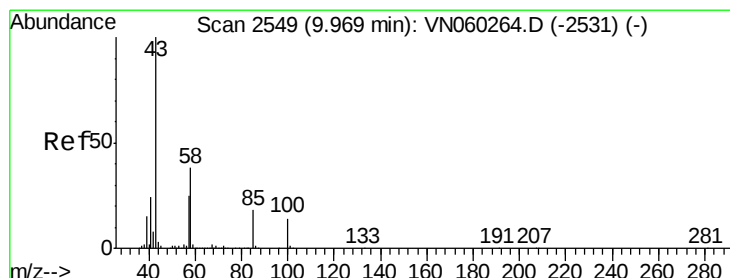
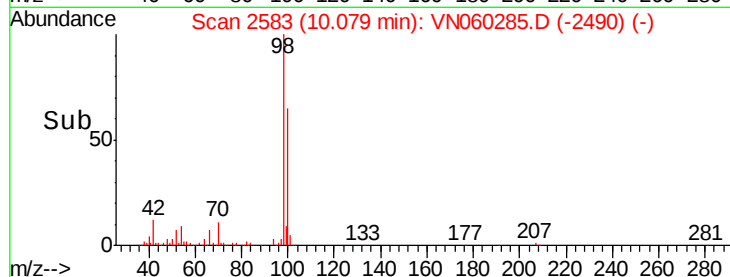
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.199 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060285.D

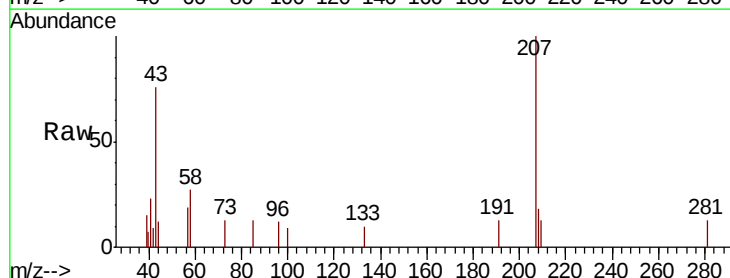
Acq: 28 Feb 2020 15:26

Tgt Ion: 43 Resp: 3625

Ion Ratio Lower Upper

43 100

58 30.5 30.9 46.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

8000

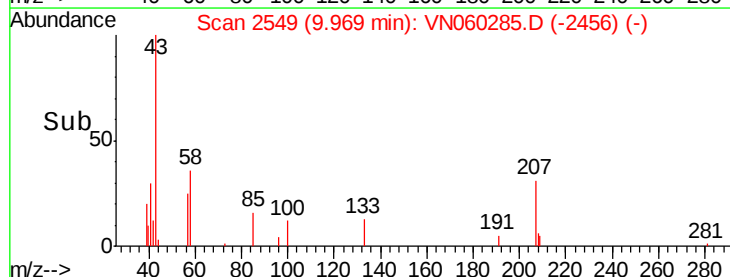
6000

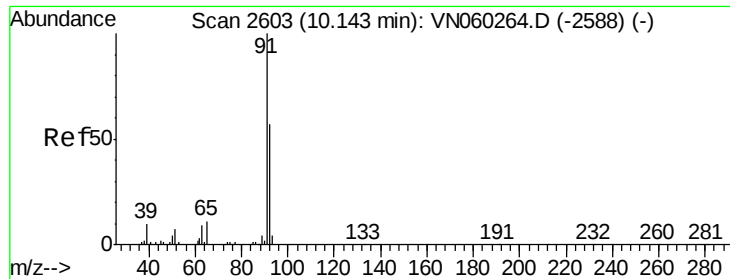
4000

2000

0

Time-->





#52

Toluene

Concen: 0.210 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. -0.00 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

Instrument :

MSVOA_N

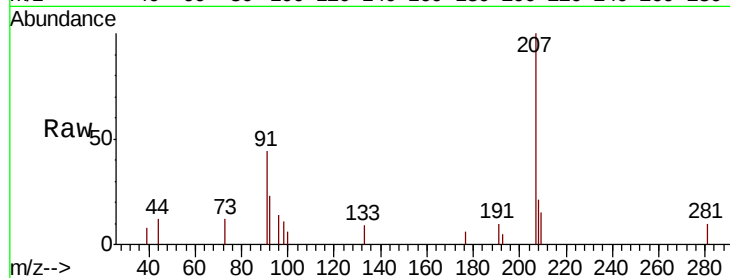
ClientSampleId :

Tot Ion: 92 Resp: 1238

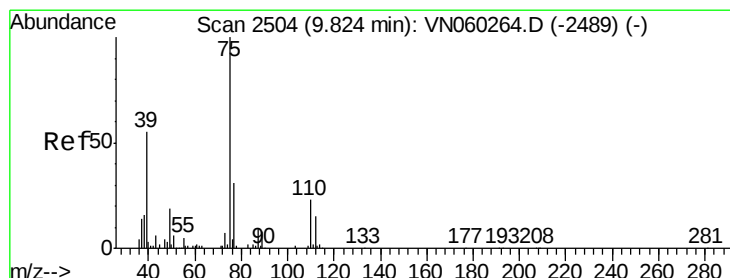
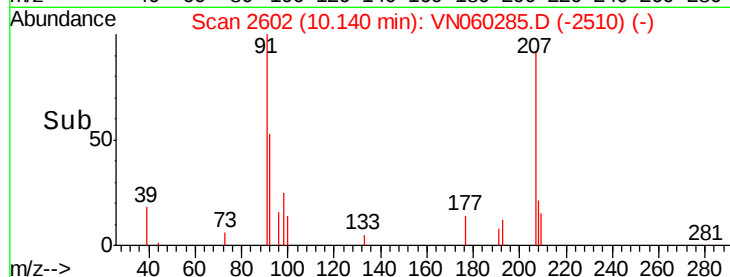
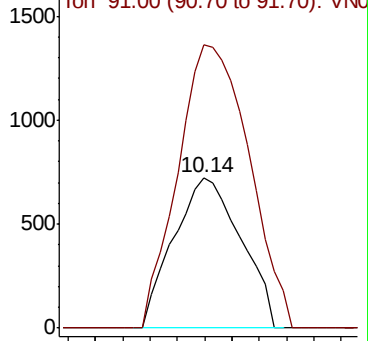
Ion Ratio Lower Upper

92 100

91 198.9 138.1 207.1



Abundance Ion 92.00 (91.70 to 92.70): VN060285.D (-2510) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.553 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

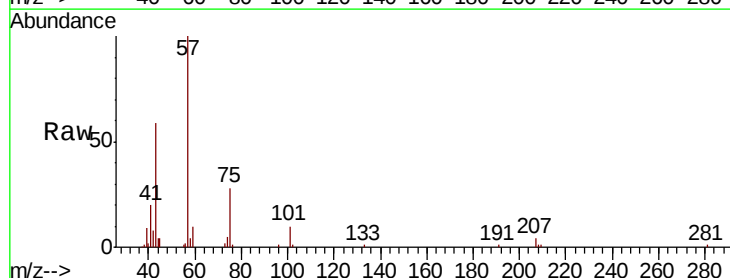
Tgt Ion: 75 Resp: 22783

Ion Ratio Lower Upper

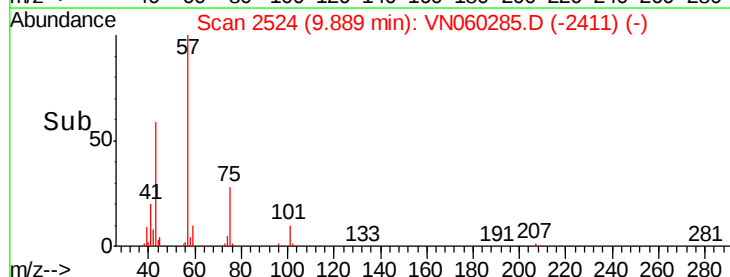
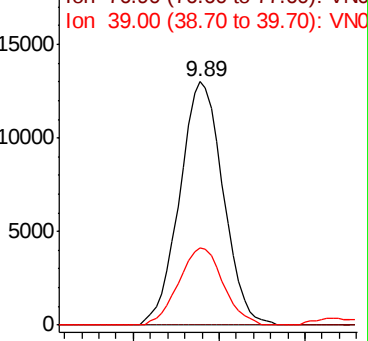
75 100

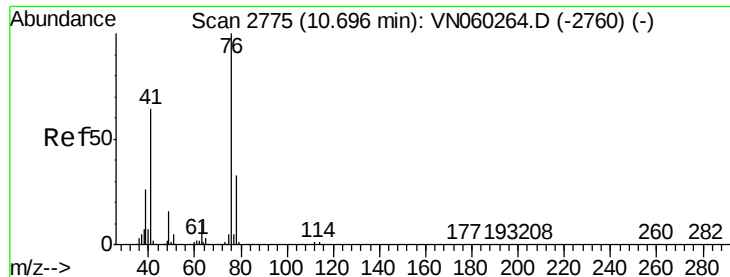
77 0.0 24.8 37.2#

39 31.8 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN060285.D (-2411) (-)

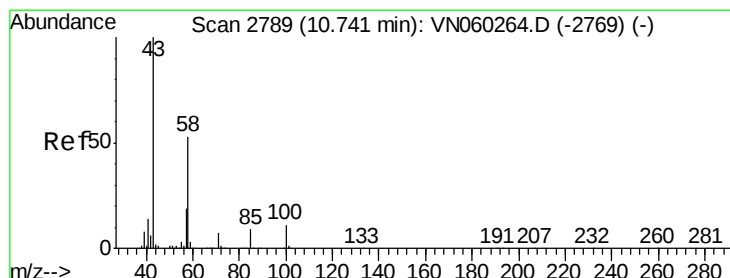
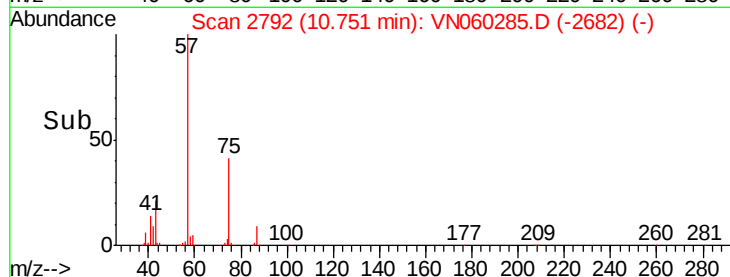
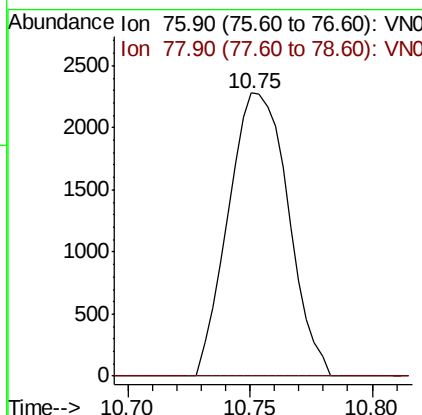
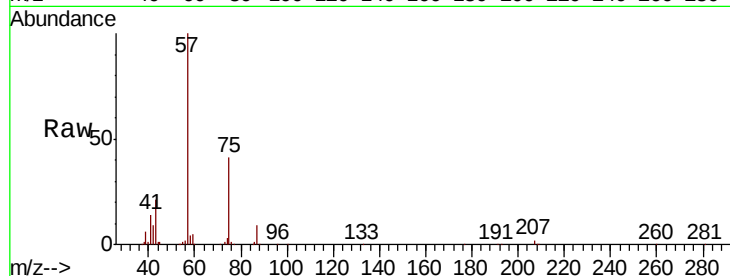




#57
 1,3-Dichloropropane
 Concen: 1.007 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.05 min
 Lab File: VN060285.D
 Acq: 28 Feb 2020 15:26

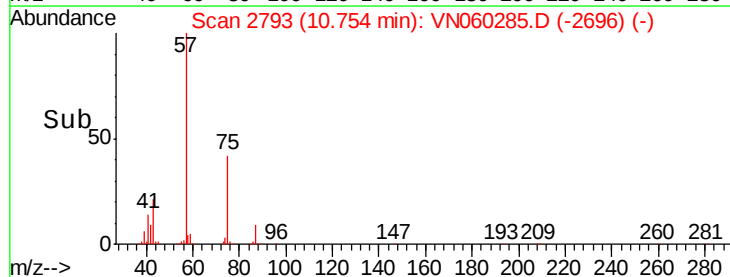
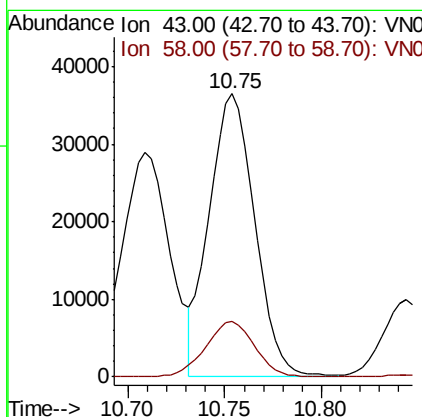
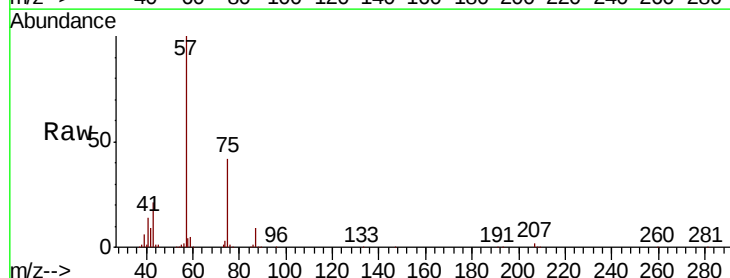
Instrument :
 MSVOA_N
 ClientSampled :

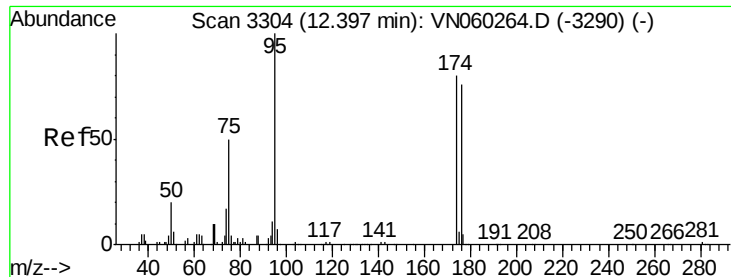
Tot Ion: 76 Resp: 3885
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#



#59
 2-Hexanone
 Concen: 27.022 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060285.D
 Acq: 28 Feb 2020 15:26

Tgt Ion: 43 Resp: 60000
 Ion Ratio Lower Upper
 43 100
 58 21.0 26.5 79.5#





#62

4-Bromofluorobenzene

Concen: 52.601 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

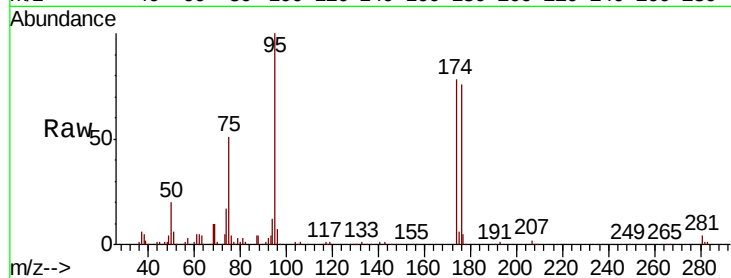
Tot Ion: 95 Resp: 158147

Ion Ratio Lower Upper

95 100

174 79.4 0.0 159.2

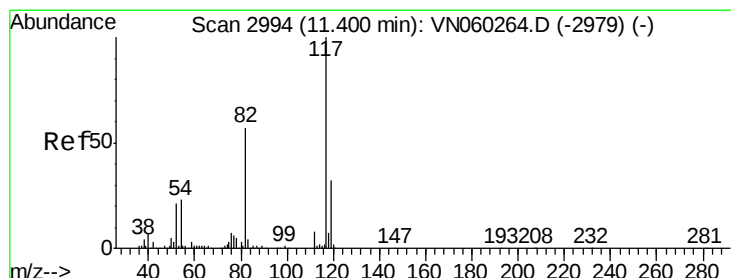
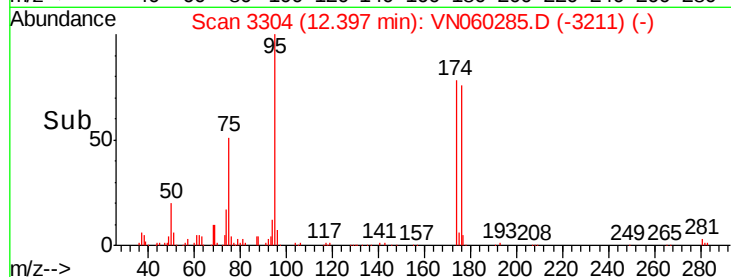
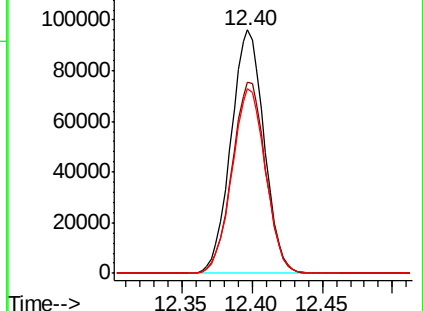
176 76.9 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060285.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060285.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060285.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

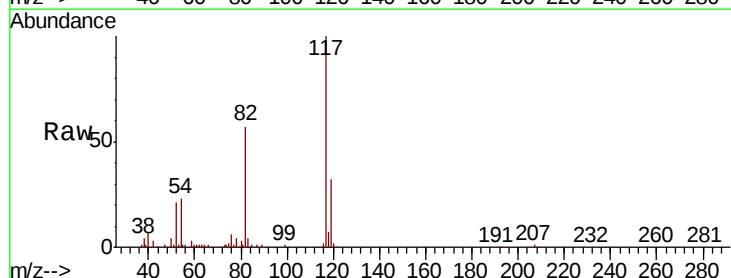
Tgt Ion: 117 Resp: 319377

Ion Ratio Lower Upper

117 100

82 57.3 45.8 68.6

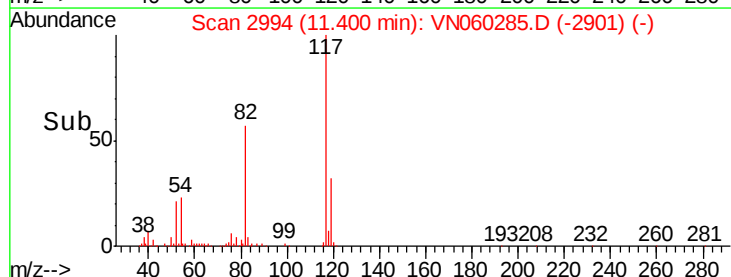
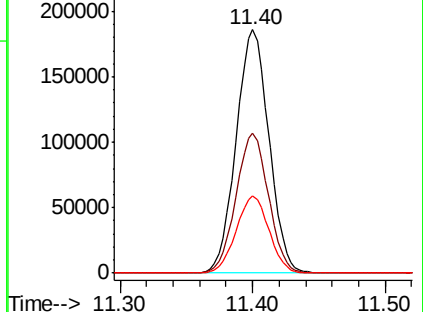
119 31.5 25.8 38.8

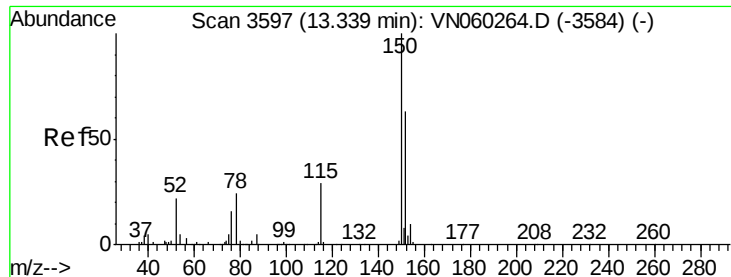


Abundance Ion 116.90 (116.60 to 117.60): VN060285.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060285.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060285.D (-2901) (-)



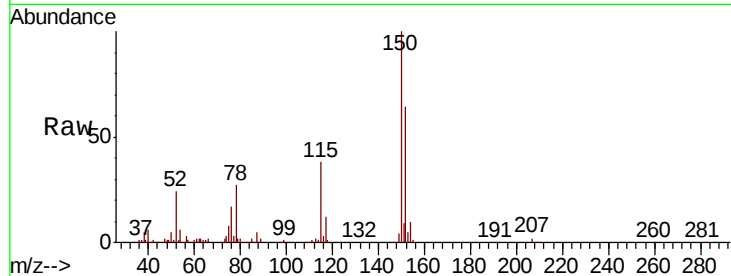


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060285.D
Acq: 28 Feb 2020 15:26

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.2	30.0	90.0
150	156.0	0.0	349.6

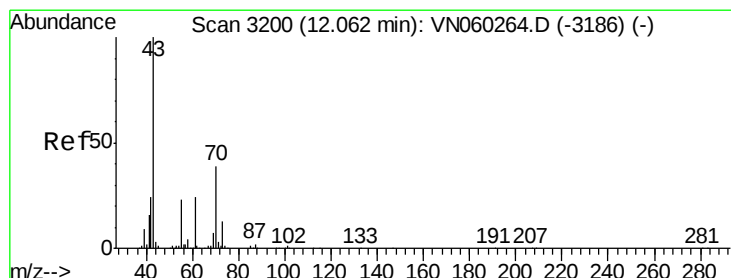
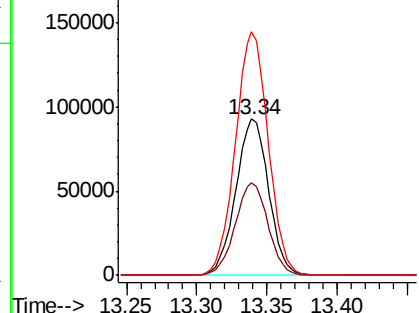
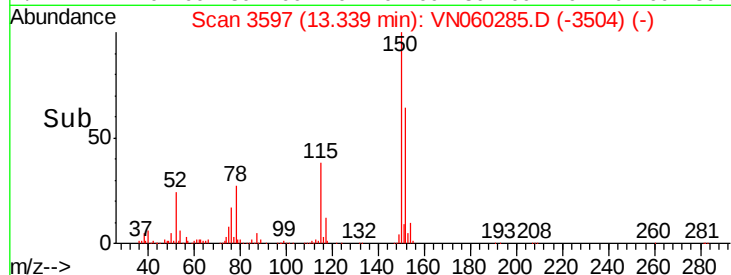


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

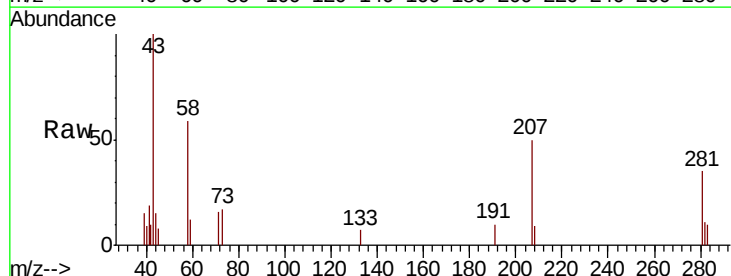
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 0.728 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN060285.D
Acq: 28 Feb 2020 15:26

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	32.2	48.2#
55	0.0	18.2	27.4#
61	0.0	19.2	28.8#



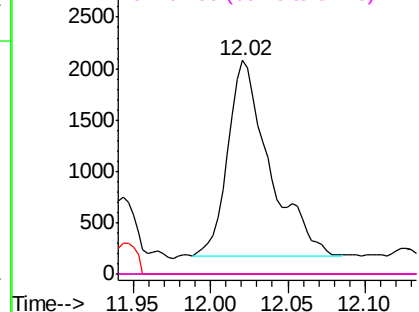
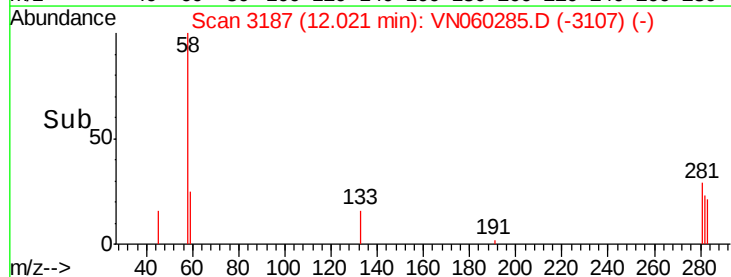
Abundance

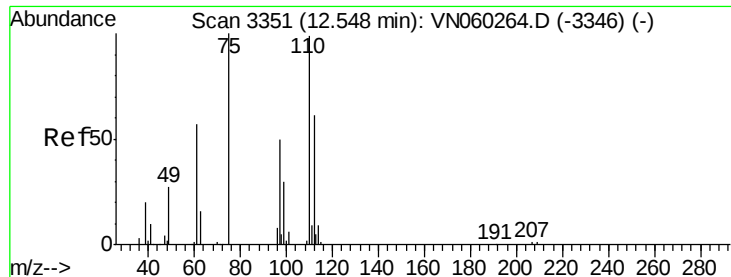
Ion 43.00 (42.70 to 43.70): VNO

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: 24.636 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

Instrument :

MSVOA_N

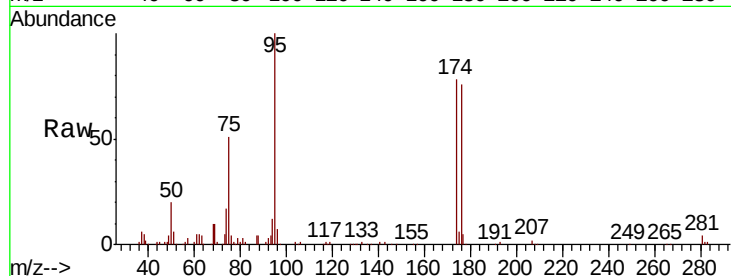
ClientSampled :

Tot Ion: 75 Resp: 81497

Ion Ratio Lower Upper

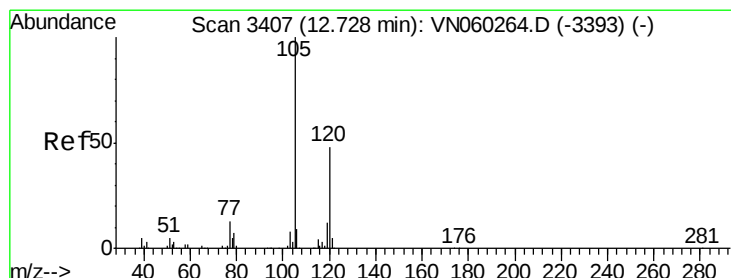
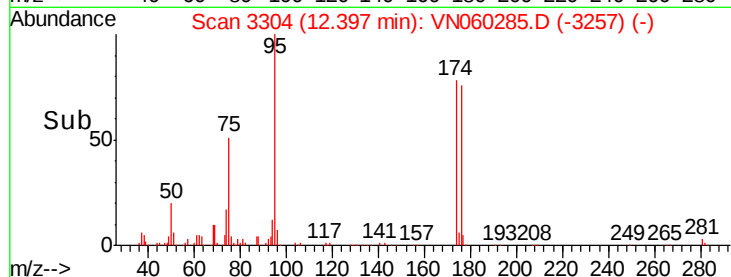
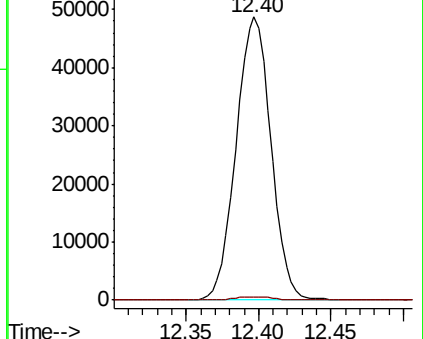
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060285.D (-3257) (-)

Ion 77.00 (76.70 to 77.70): VN060285.D (-3257) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.278 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060285.D

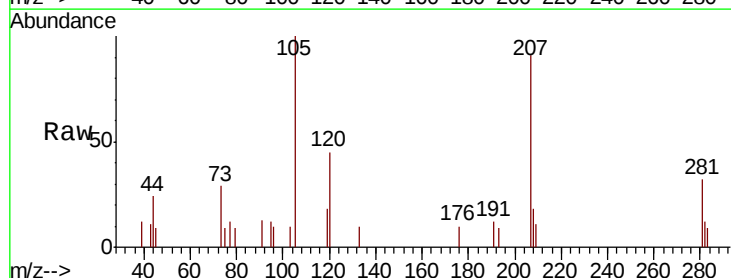
Acq: 28 Feb 2020 15:26

Tgt Ion: 105 Resp: 2612

Ion Ratio Lower Upper

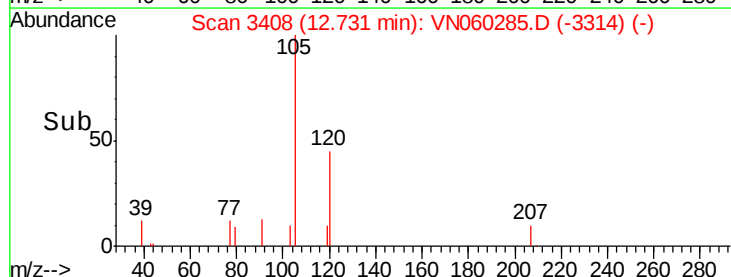
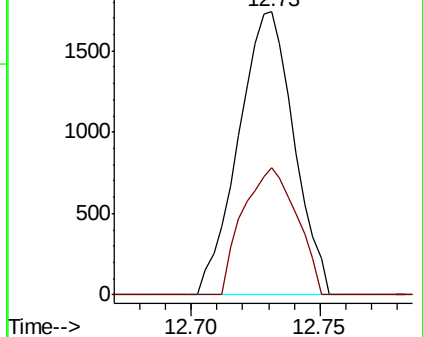
105 100

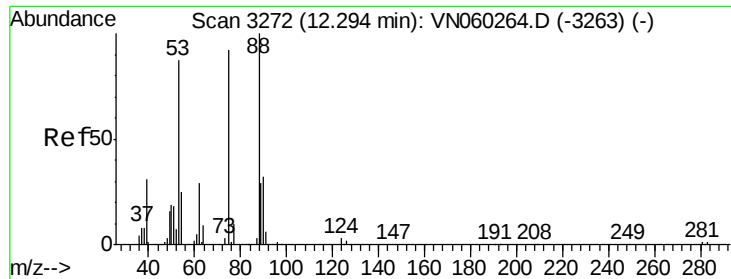
120 43.7 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN060285.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060285.D (-3314) (-)

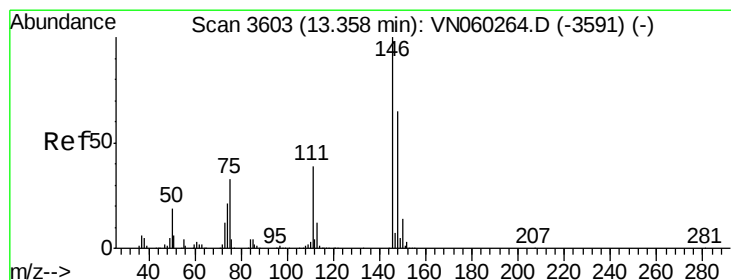
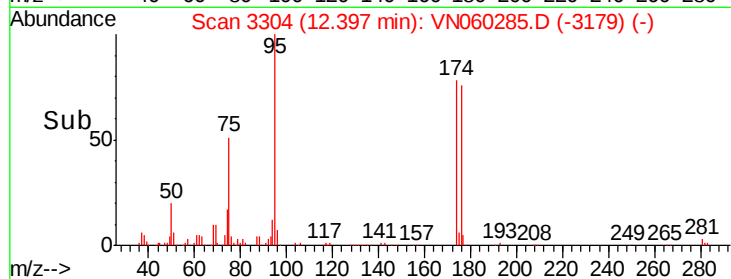
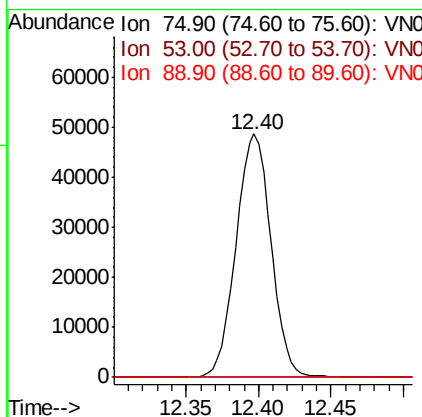
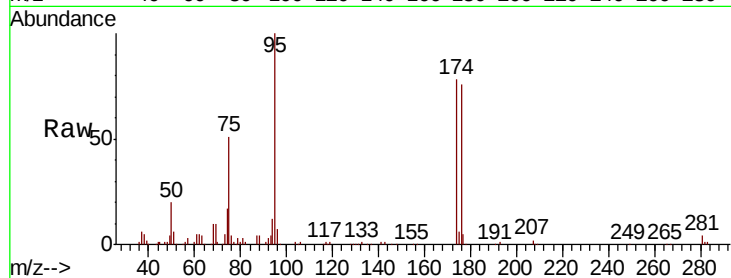




#81
trans-1,4-Dichloro-2-butene
Concen: 68.007 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060285.D
Acq: 28 Feb 2020 15:26

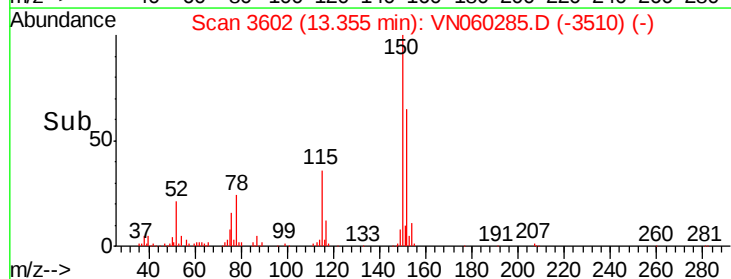
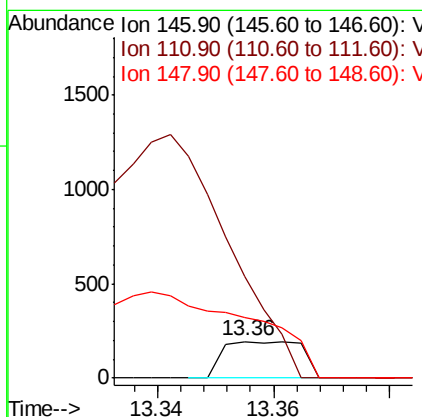
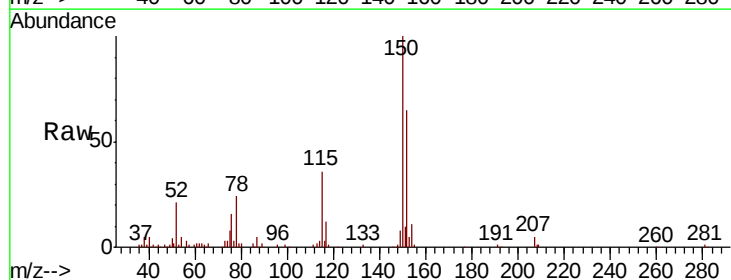
Instrument :
MSVOA_N
ClientSampleId :

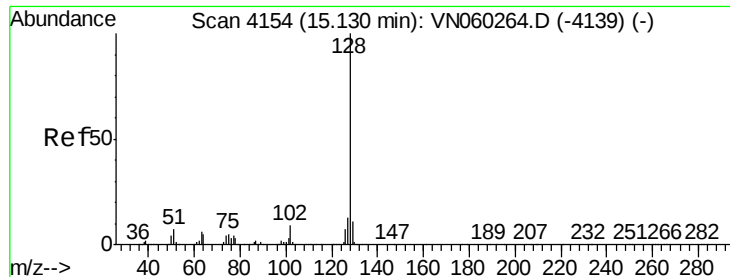
Tot Ion: 75 Resp: 81497
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 57.1 85.7#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.36 min Scan# 3602
Delta R.T. -0.00 min
Lab File: VN060285.D
Acq: 28 Feb 2020 15:26

Tgt Ion: 146 Resp: 180
Ion Ratio Lower Upper
146 100
111 1218.3 19.8 59.4#
148 468.9 32.3 96.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060285.D

Acq: 28 Feb 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

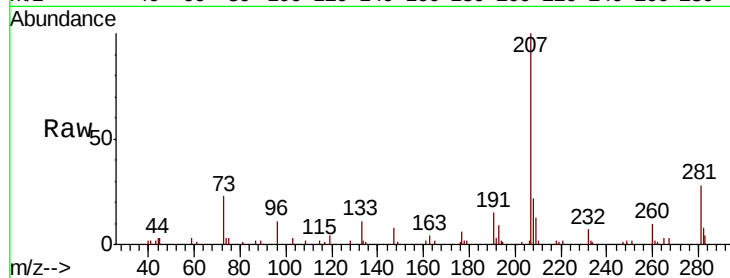
Tot Ion:128 Resp: 445

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



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

