

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030220\
 Data File : VN060306.D
 Acq On : 2 Mar 2020 13:11
 Operator : JC/MD
 Sample : PB127166ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 03 05:45:43 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

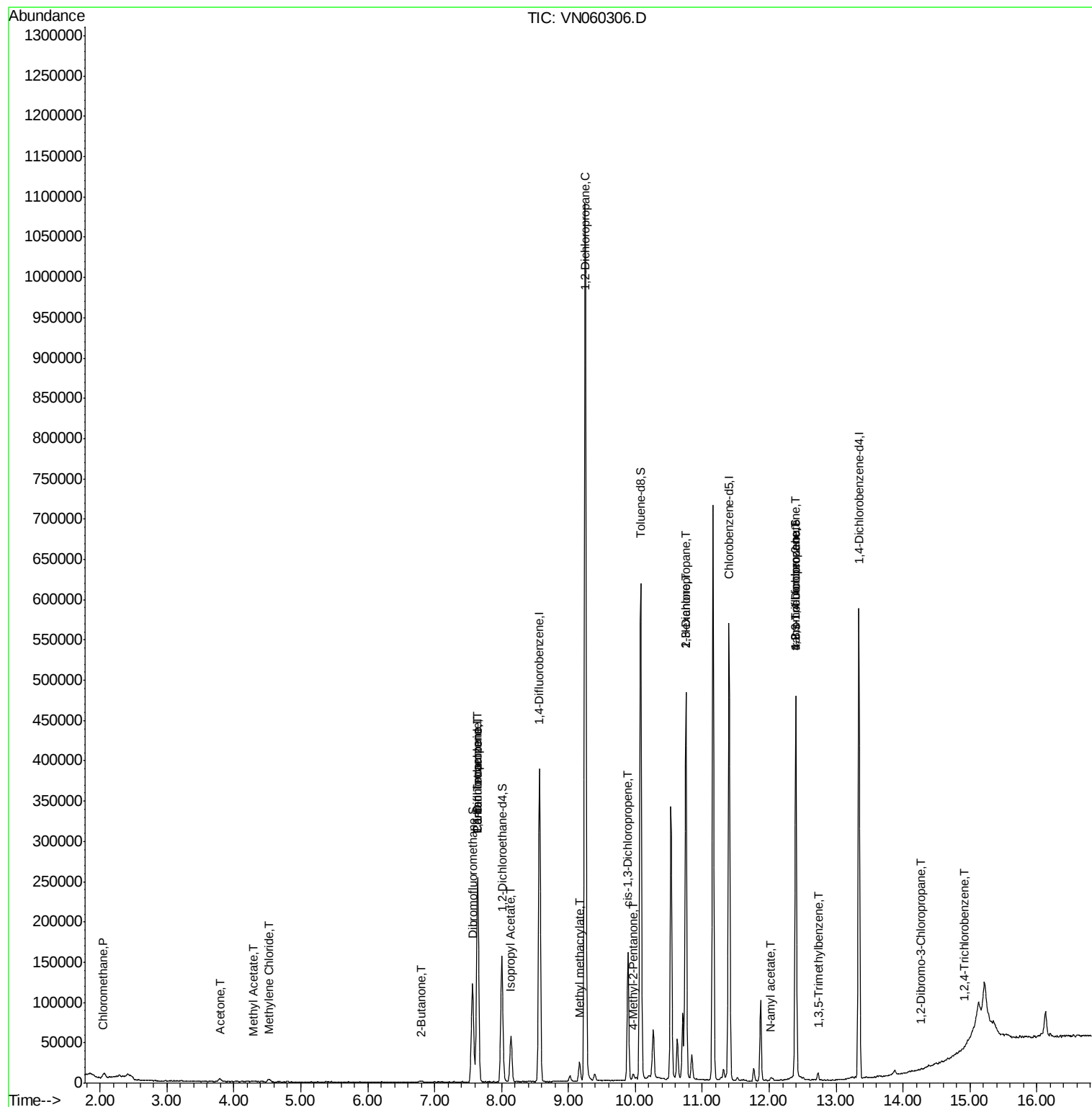
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	208770	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	340302	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	320559	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	150935	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	135106	50.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.88%	
35) Dibromofluoromethane	7.57	113	92613	58.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	117.26%	
50) Toluene-d8	10.08	98	419307	52.45	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.90%	
62) 4-Bromofluorobenzene	12.40	95	159364	52.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.18%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.04	50	808	0.242	ug/l #	87
12) 1,1-Dichloroethene	3.73	96	64	Below Cal	#	1
16) Acetone	3.79	43	7021	8.117	ug/l	98
17) Carbon Disulfide	4.04	76	644	Below Cal	#	75
18) Methyl Acetate	4.30	43	2195	0.760	ug/l #	73
20) Methylene Chloride	4.53	84	2766	1.164	ug/l	94
21) trans-1,2-Dichloroethene	5.01	96	95	Below Cal	#	1
25) 2-Butanone	6.80	43	1552	1.111	ug/l #	49
31) Cyclohexane	7.64	56	4522	Below Cal	#	3
36) 1,1-Dichloropropene	7.64	75	16017	4.939	ug/l #	49
38) Carbon Tetrachloride	7.64	117	20123	6.373	ug/l #	16
43) Isopropyl Acetate	8.14	43	67222	12.504	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1399	0.567	ug/l #	44
48) Methyl methacrylate	9.16	41	3543	1.445	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5178	1.699	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	29945	7.241	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	4681	1.204	ug/l #	42
59) 2-Hexanone	10.75	43	70784	31.627	ug/l #	52
74) N-amyl acetate	12.02	43	4789	0.980	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	82372	24.874	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5346	0.568	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	82372	68.665	ug/l #	8
87) 1,3-Dichlorobenzene	13.28	146	601	Below Cal	#	49
88) 1,4-Dichlorobenzene	13.36	146	516	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	14.26	75	217	0.315	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	630	0.294	ug/l #	82
95) Naphthalene	15.13	128	1908	Below Cal	#	80

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

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Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
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: VN060306.D

Acq: 2 Mar 2020 13:11

Instrument :

MSVOA_N

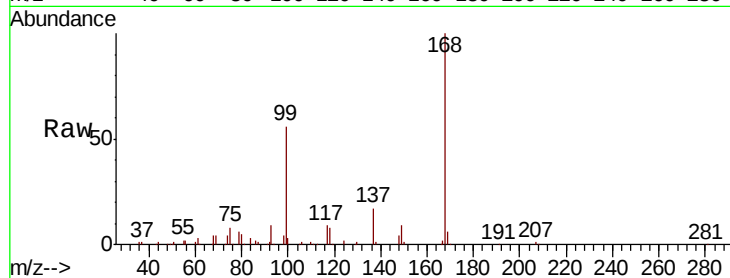
ClientSampled :

Tot Ion:168 Resp: 208770

Ion Ratio Lower Upper

168 100

99 56.4 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

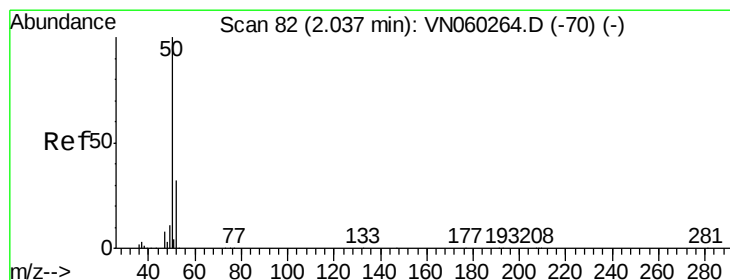
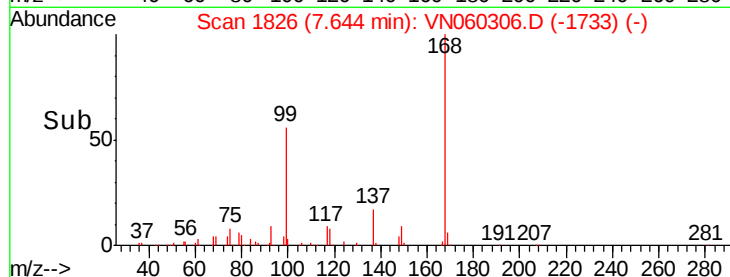
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.242 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN060306.D

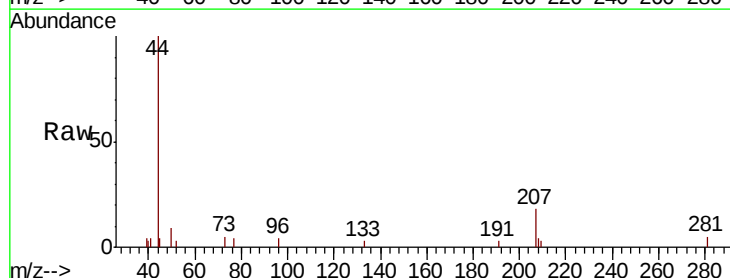
Acq: 2 Mar 2020 13:11

Tgt Ion: 50 Resp: 808

Ion Ratio Lower Upper

50 100

52 39.0 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

600

500

400

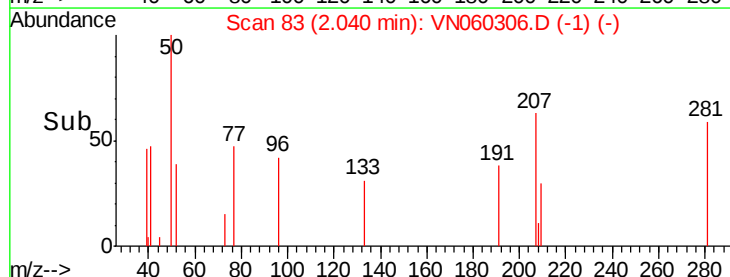
300

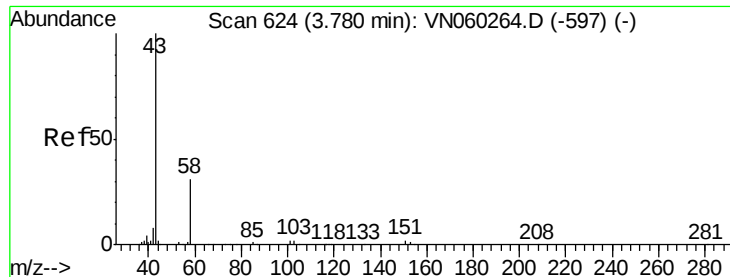
200

100

0

Time-->





#16

Acetone

Concen: 8.117 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

Instrument :

MSVOA_N

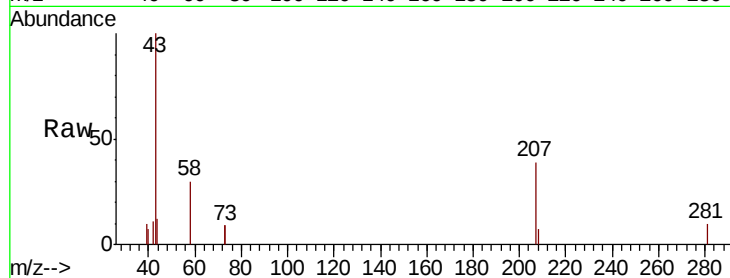
ClientSampled :

Tot Ion: 43 Resp: 7021

Ion Ratio Lower Upper

43 100

58 29.8 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060306.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060306.D (-597) (-)

2500

2000

1500

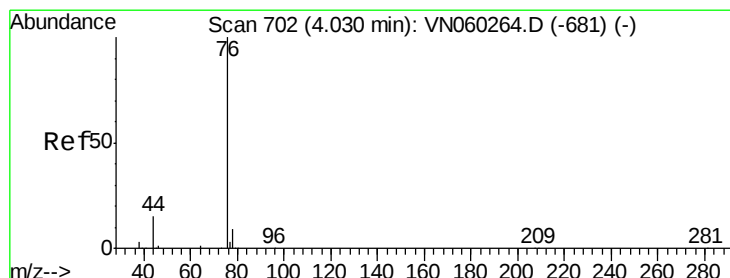
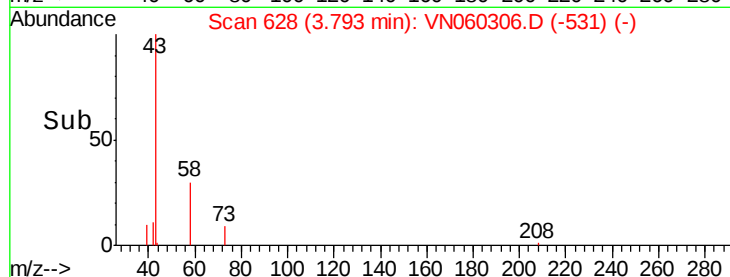
1000

500

0

3.70 3.80 3.90

Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.04 min Scan# 704

Delta R.T. 0.01 min

Lab File: VN060306.D

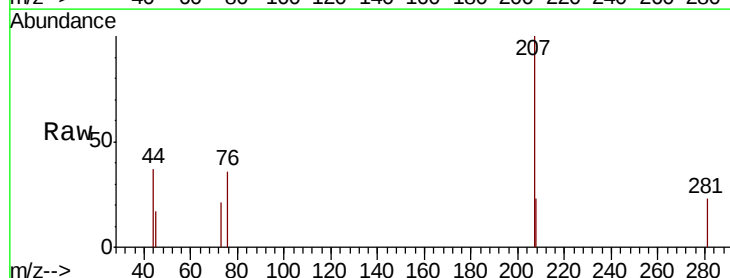
Acq: 2 Mar 2020 13:11

Tgt Ion: 76 Resp: 644

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060306.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN060306.D (-681) (-)

400

300

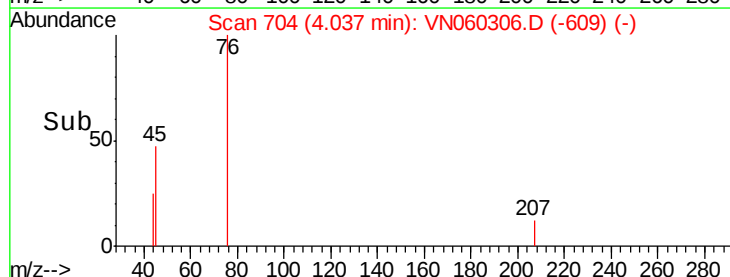
200

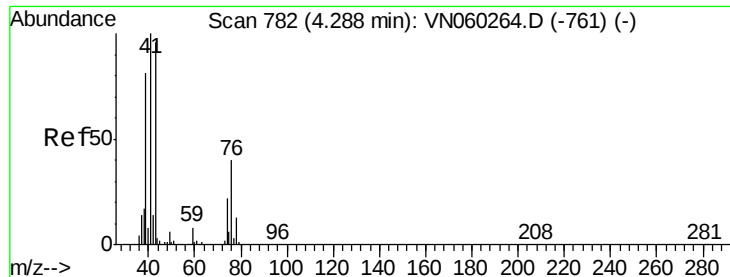
100

0

3.98 4.00 4.02 4.04 4.06

Time-->

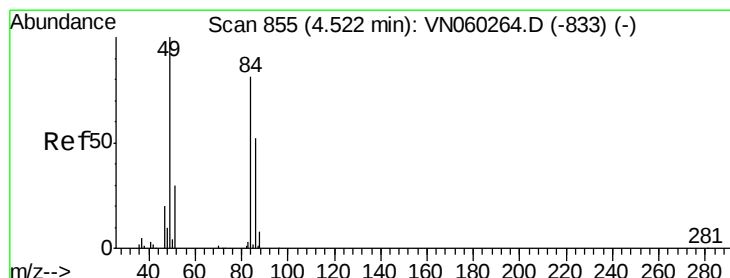
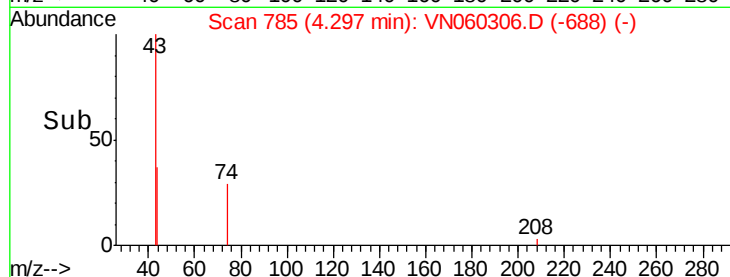
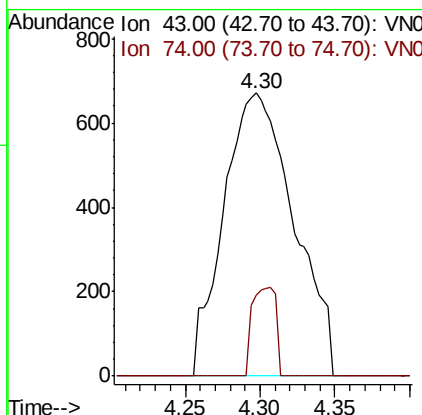
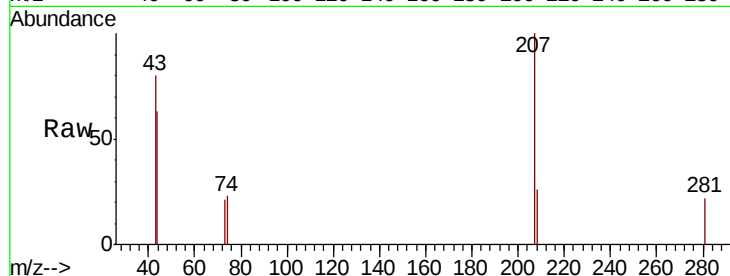




#18
Methyl Acetate
Concen: 0.760 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060306.D
Acq: 2 Mar 2020 13:11

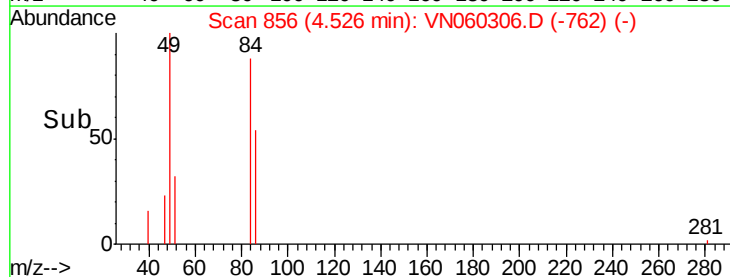
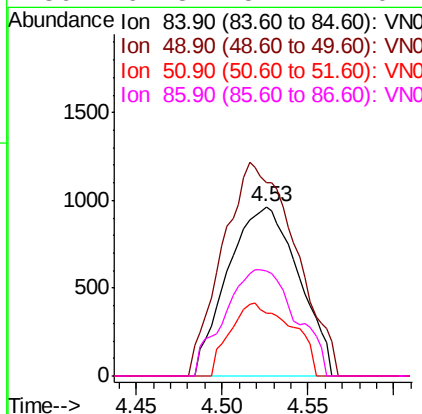
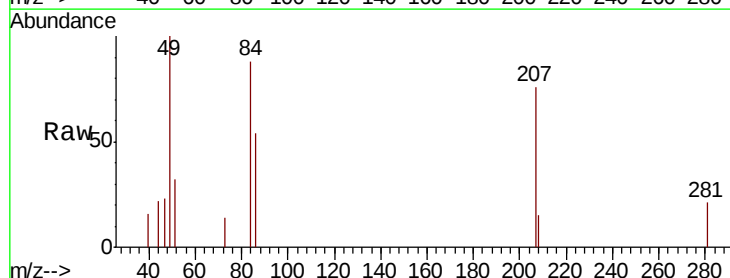
Instrument :
MSVOA_N
ClientSampled :

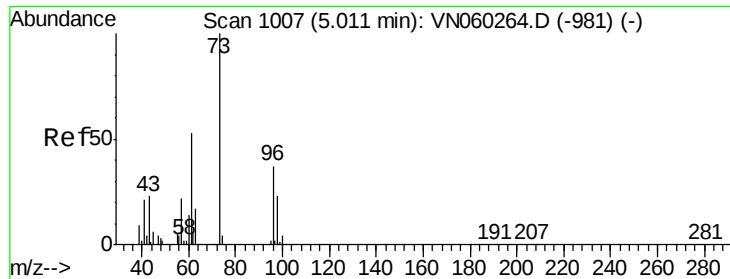
Tot Ion: 43 Resp: 2195
Ion Ratio Lower Upper
43 100
74 10.3 18.8 28.2#



#20
Methylene Chloride
Concen: 1.164 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060306.D
Acq: 2 Mar 2020 13:11

Tgt Ion: 84 Resp: 2766
Ion Ratio Lower Upper
84 100
49 114.0 99.3 148.9
51 36.9 30.1 45.1
86 61.8 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 5.01 min Scan# 1007

Delta R.T. 0.00 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

Instrument :

MSVOA_N

ClientSampled :

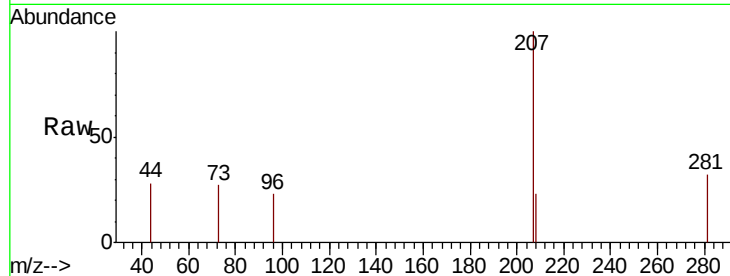
Tot Ion: 96 Resp: 95

Ion Ratio Lower Upper

96 100

61 0.0 113.8 170.8#

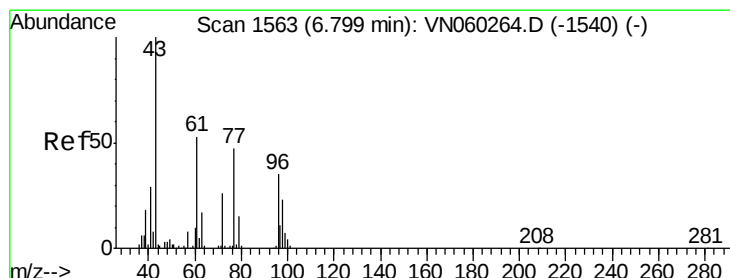
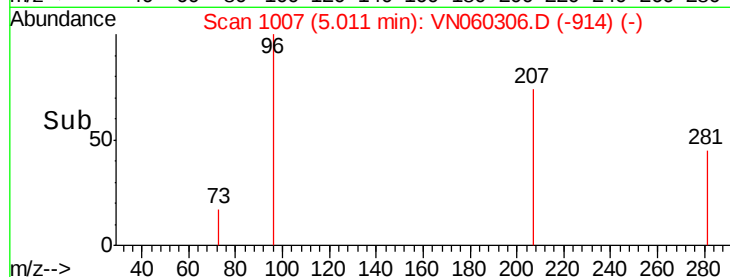
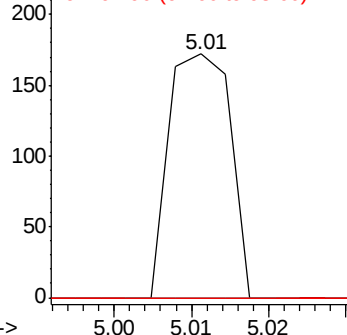
98 0.0 48.8 73.2#



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: 1.111 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN060306.D

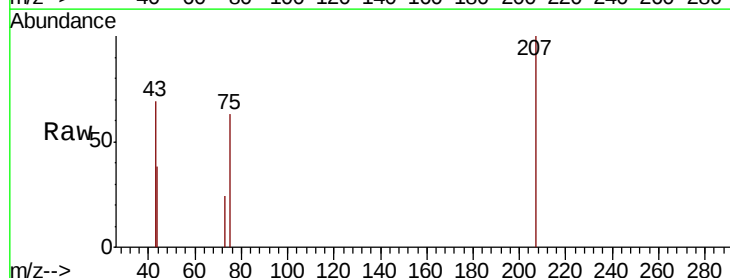
Acq: 2 Mar 2020 13:11

Tgt Ion: 43 Resp: 1552

Ion Ratio Lower Upper

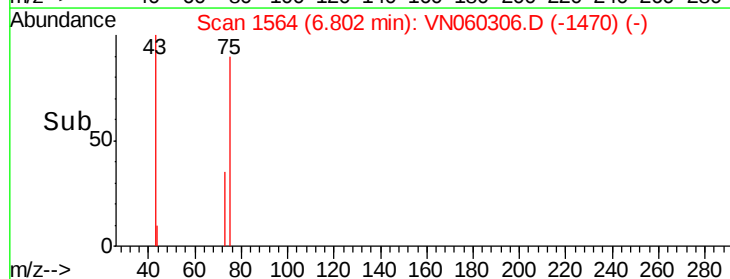
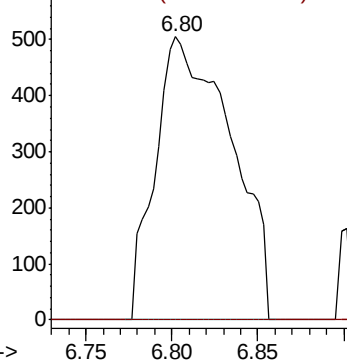
43 100

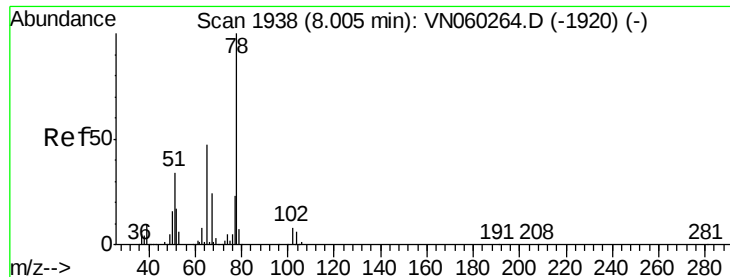
72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

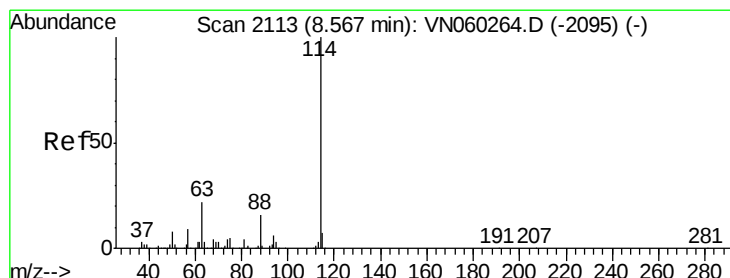
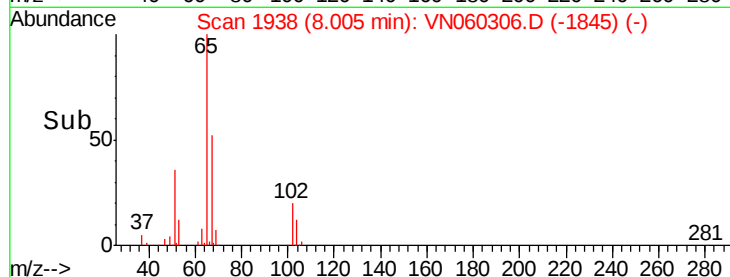
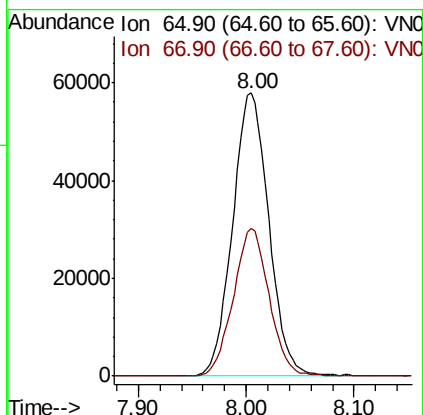
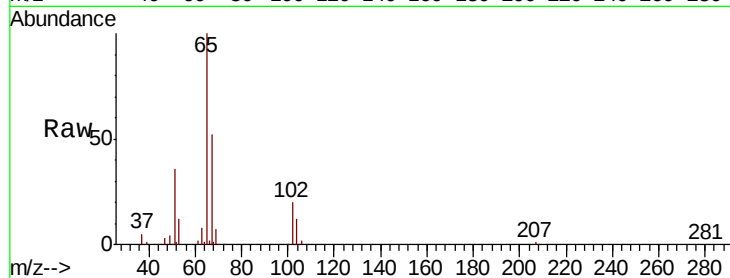




#33
 1,2-Dichloroethane-d4
 Concen: 50.440 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060306.D
 Acq: 2 Mar 2020 13:11

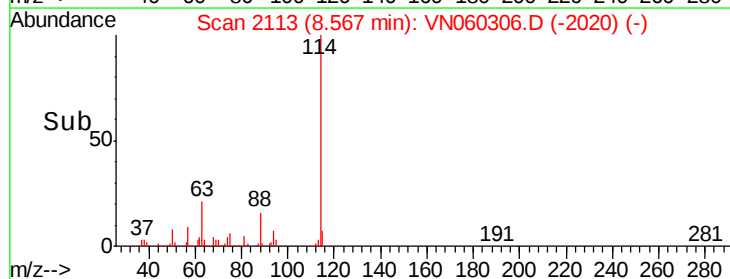
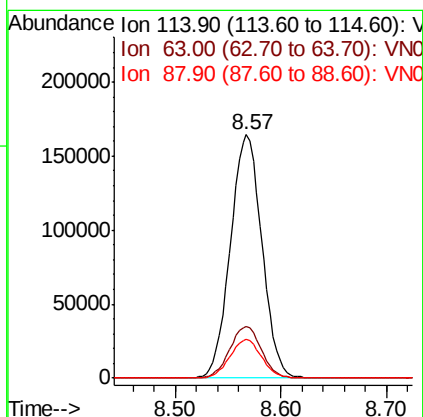
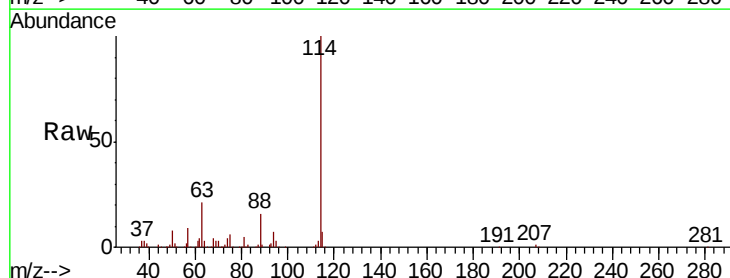
Instrument :
 MSVOA_N
 ClientSampleId :

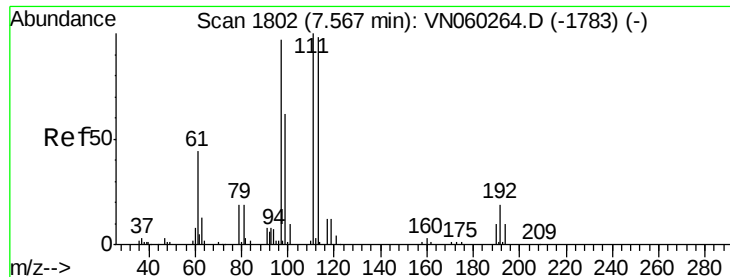
Tot Ion: 65 Resp: 135106
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060306.D
 Acq: 2 Mar 2020 13:11

Tgt Ion: 114 Resp: 340302
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 43.2
 88 15.9 0.0 31.6





#35

Dibromofluoromethane

Concen: 58.632 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

Instrument :
MSVOA_N
ClientSampleId :

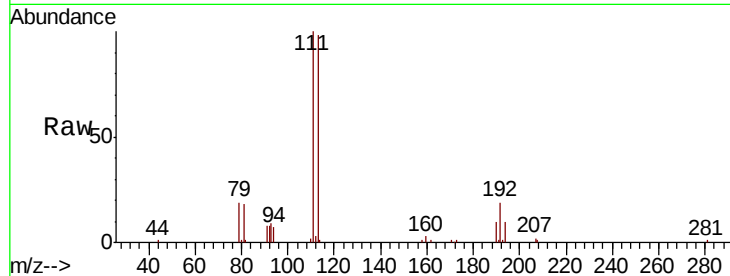
Tot Ion:113 Resp: 92613

Ion Ratio Lower Upper

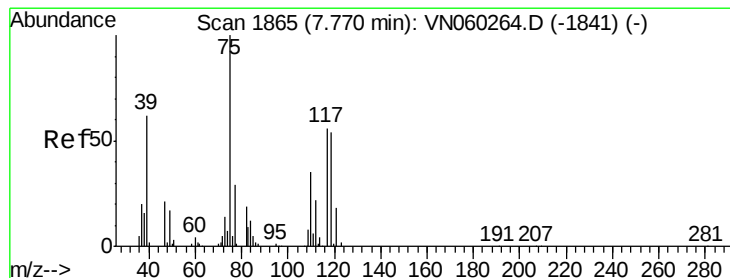
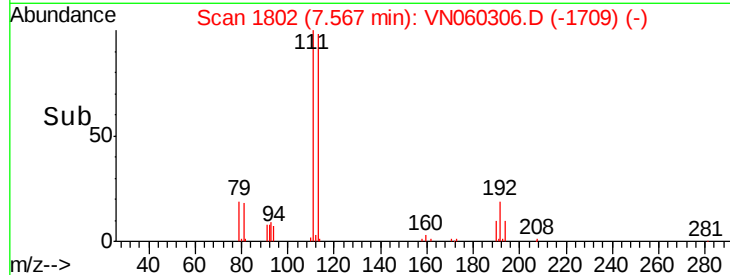
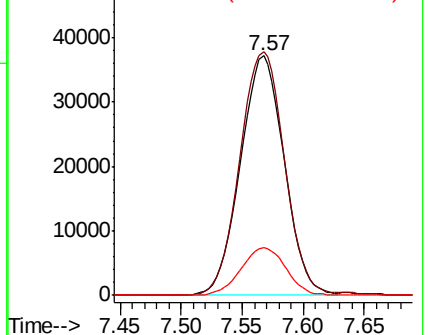
113 100

111 103.4 82.4 123.6

192 20.3 16.2 24.2



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: 4.939 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

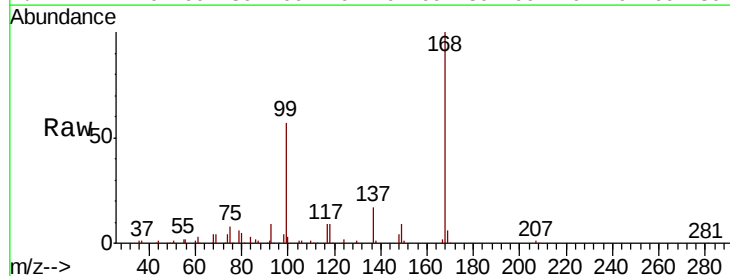
Tgt Ion: 75 Resp: 16017

Ion Ratio Lower Upper

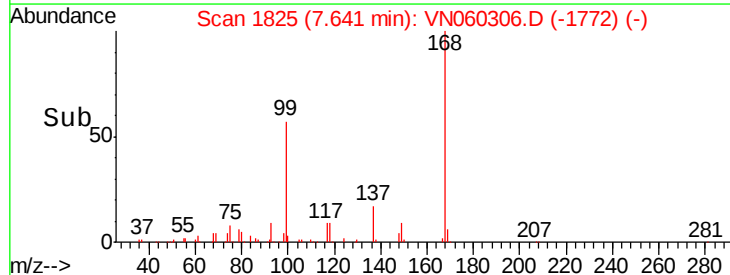
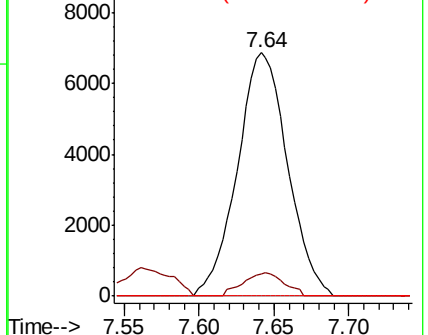
75 100

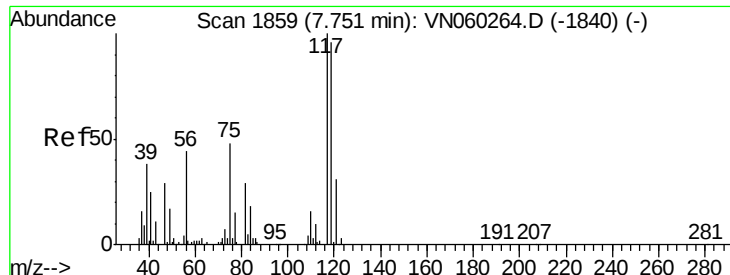
110 7.8 17.3 52.0#

77 0.0 24.2 36.2#



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: 6.373 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

Instrument :

MSVOA_N

ClientSampleId :

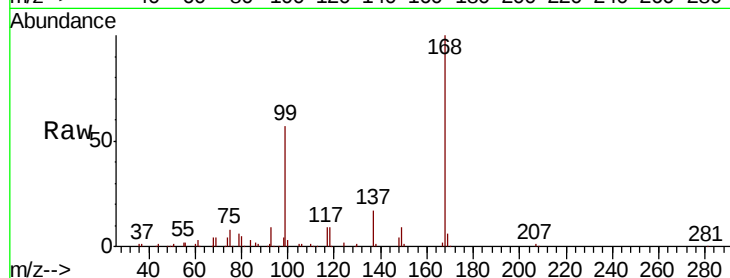
Tot Ion:117 Resp: 20123

Ion Ratio Lower Upper

117 100

119 5.1 76.7 115.1#

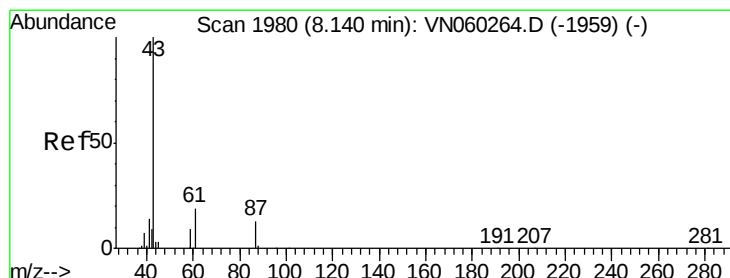
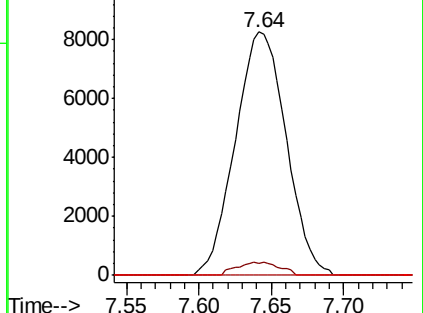
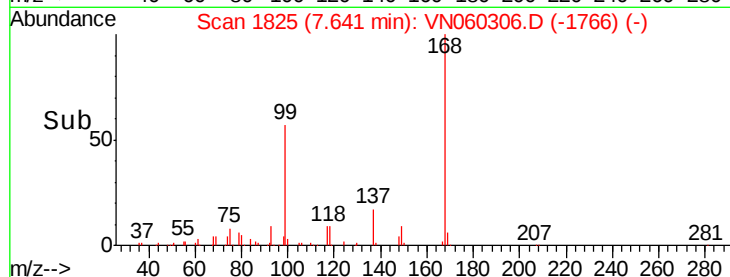
121 0.0 24.5 36.7#



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: 12.504 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

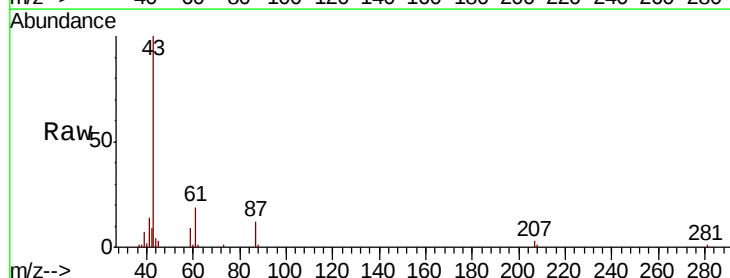
Tgt Ion: 43 Resp: 67222

Ion Ratio Lower Upper

43 100

61 19.5 20.9 31.3#

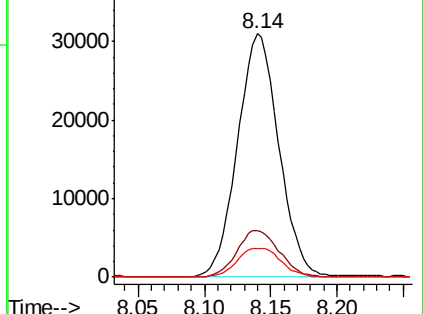
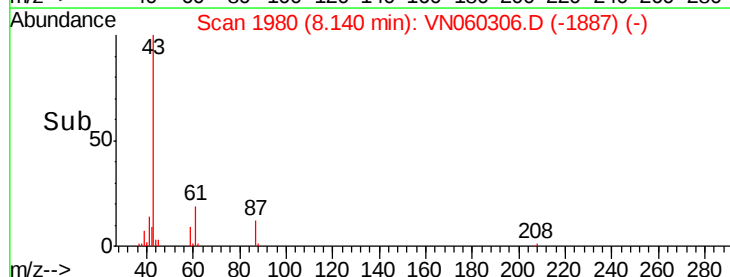
87 12.5 10.6 16.0

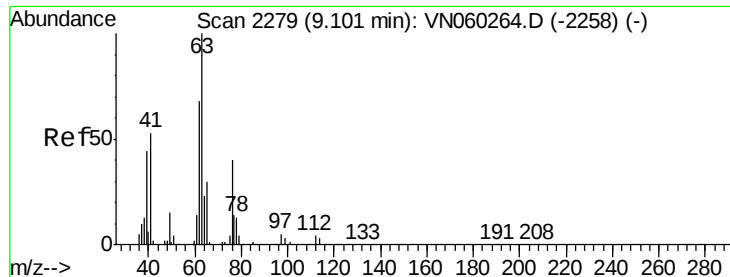


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

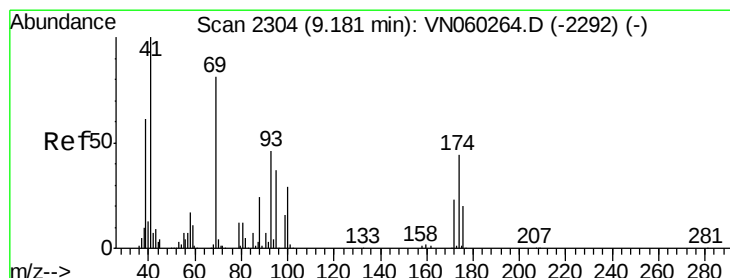
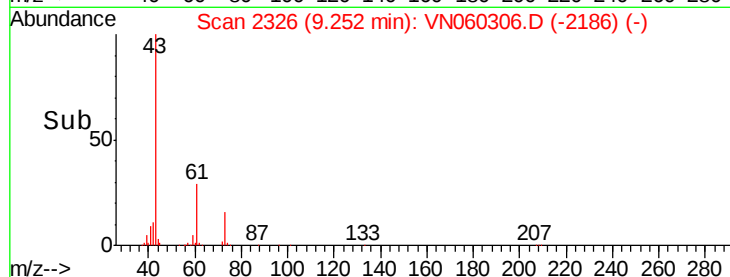
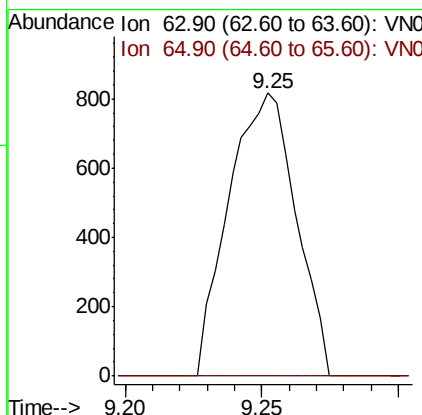
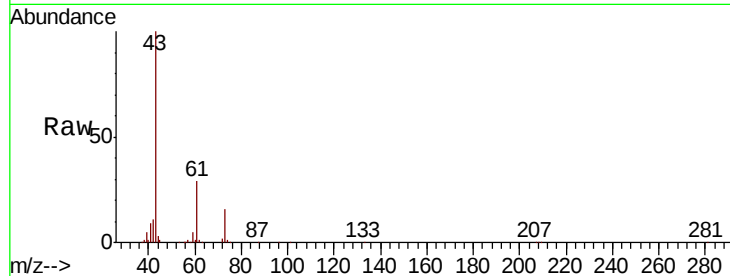




#45
 1,2-Dichloropropane
 Concen: 0.567 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN060306.D
 Acq: 2 Mar 2020 13:11

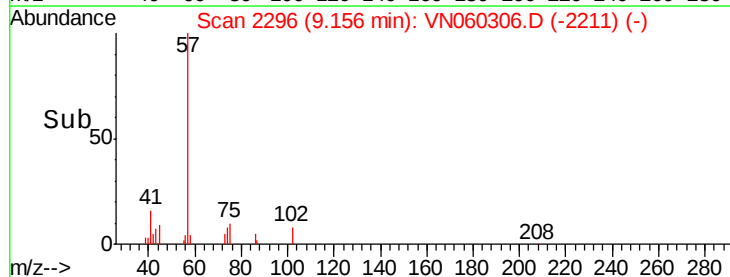
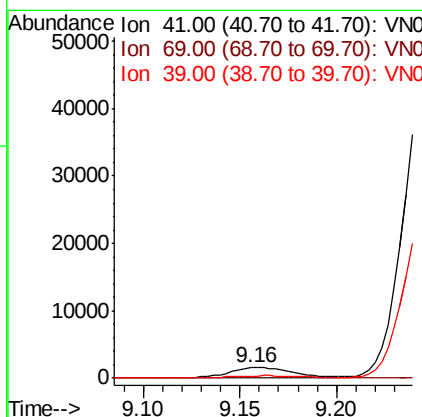
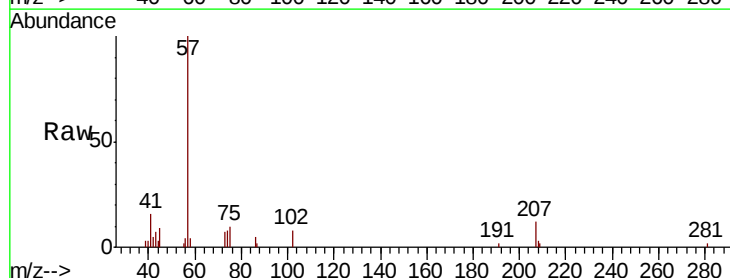
Instrument :
 MSVOA_N
 ClientSampled :

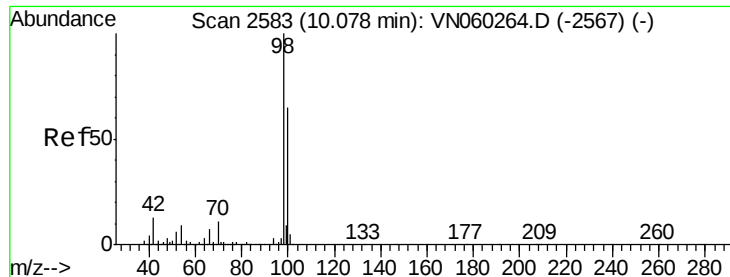
Tot Ion: 63 Resp: 1399
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.445 ug/l
 RT: 9.16 min Scan# 2296
 Delta R.T. -0.03 min
 Lab File: VN060306.D
 Acq: 2 Mar 2020 13:11

Tgt Ion: 41 Resp: 3543
 Ion Ratio Lower Upper
 41 100
 69 0.0 66.7 100.1#
 39 0.0 50.1 75.1#





#50

Toluene-d8

Concen: 52.450 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

Instrument :

MSVOA_N

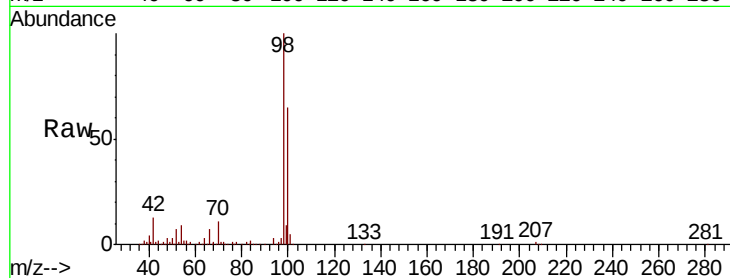
ClientSampled :

Tot Ion: 98 Resp: 419307

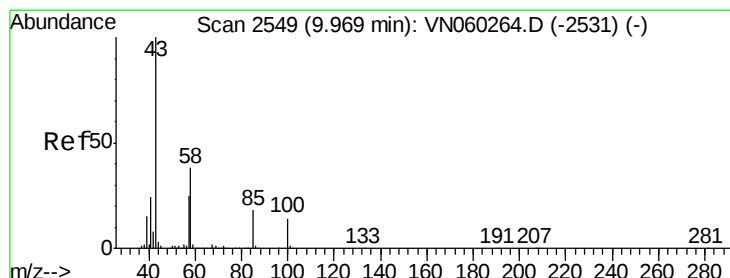
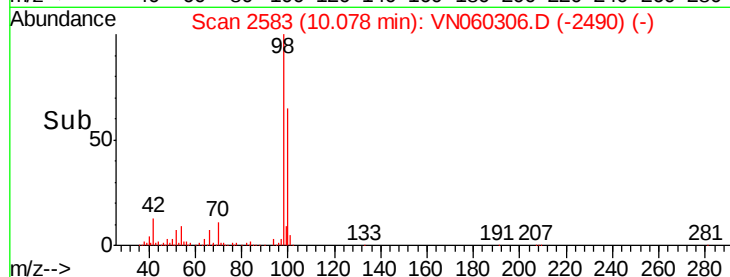
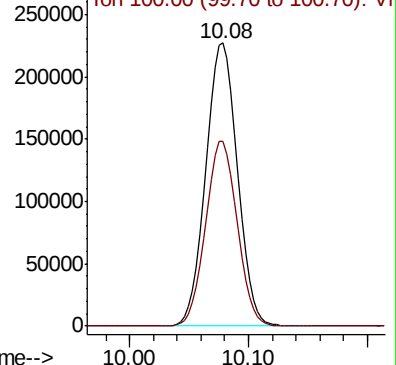
Ion Ratio Lower Upper

98 100

100 65.1 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060264.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.699 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060306.D

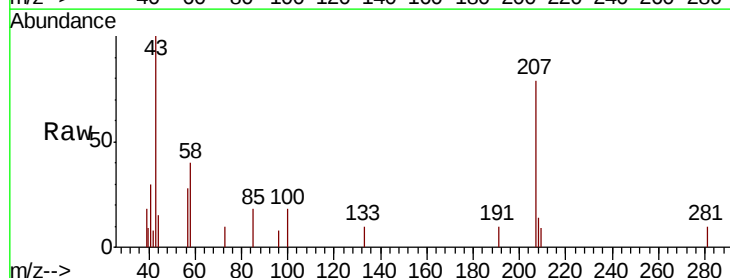
Acq: 2 Mar 2020 13:11

Tgt Ion: 43 Resp: 5178

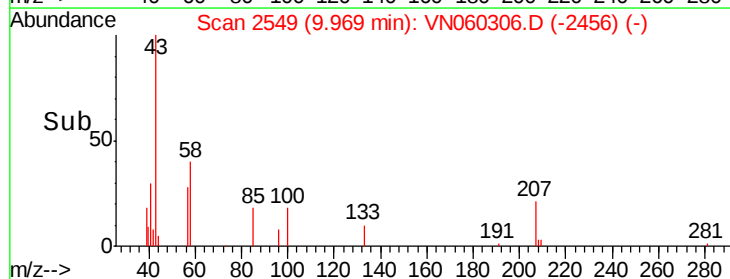
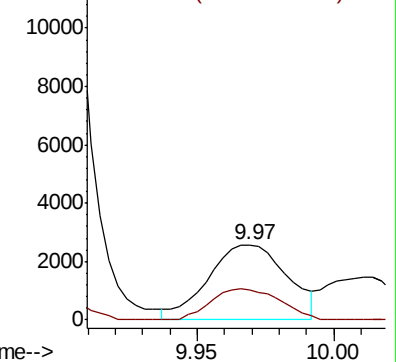
Ion Ratio Lower Upper

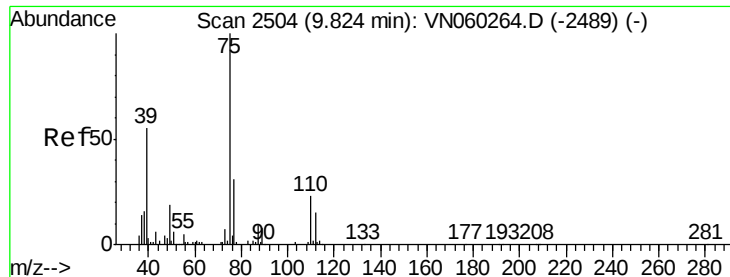
43 100

58 36.6 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)





#54

cis-1,3-Dichloropropene

Concen: 7.241 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

Instrument :

MSVOA_N

ClientSampleId :

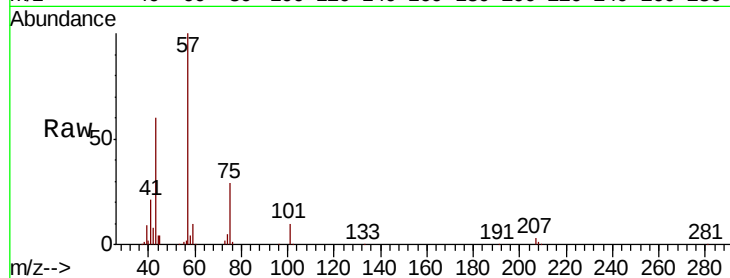
Tot Ion: 75 Resp: 29945

Ion Ratio Lower Upper

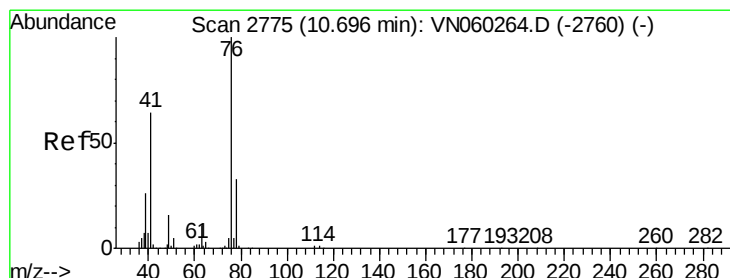
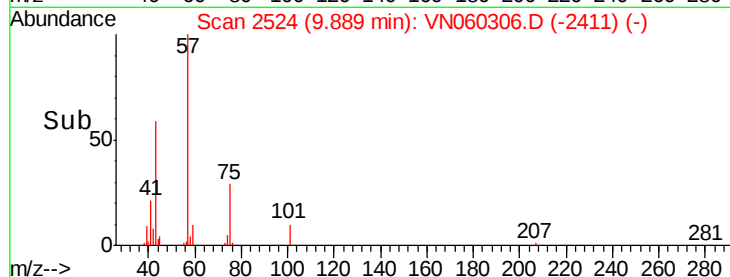
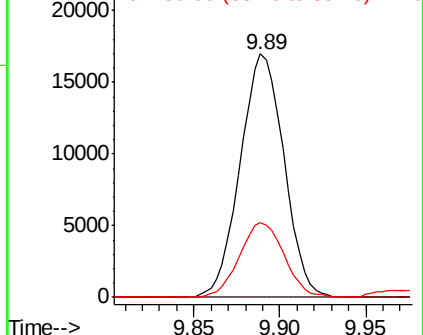
75 100

77 0.0 24.8 37.2#

39 30.4 43.8 65.8#



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



#57

1,3-Dichloropropane

Concen: 1.204 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060306.D

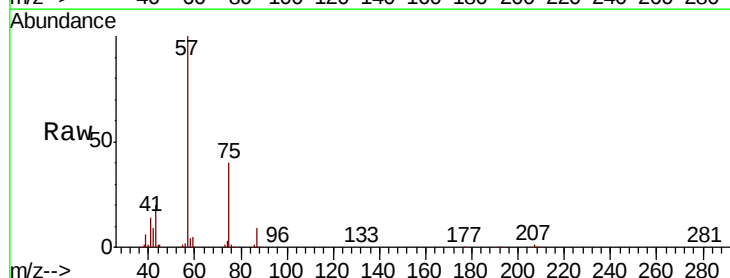
Acq: 2 Mar 2020 13:11

Tgt Ion: 76 Resp: 4681

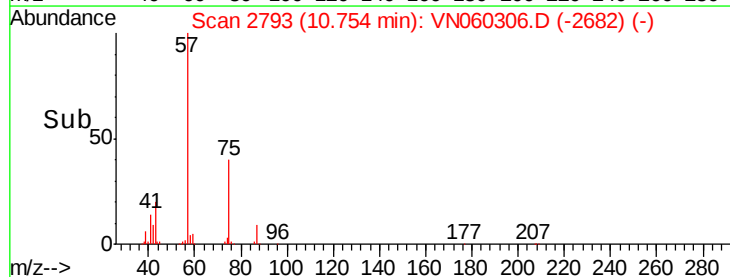
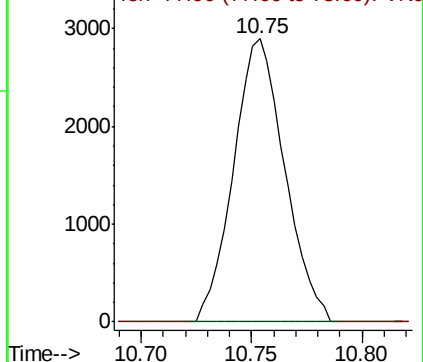
Ion Ratio Lower Upper

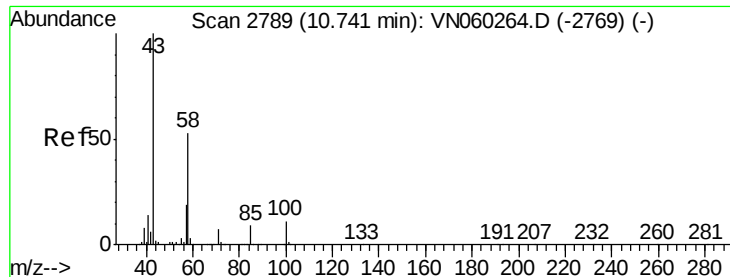
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

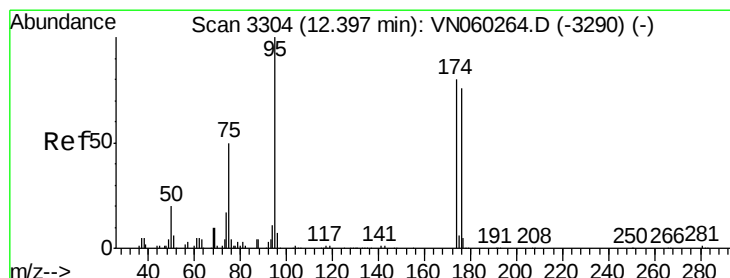
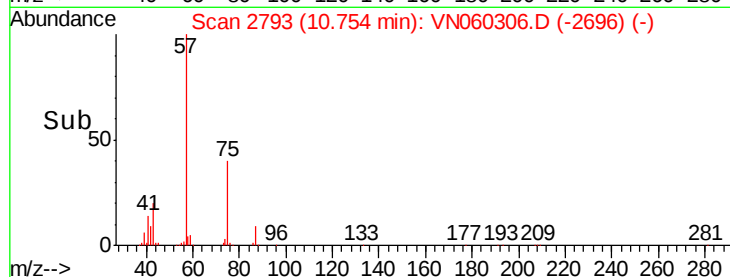
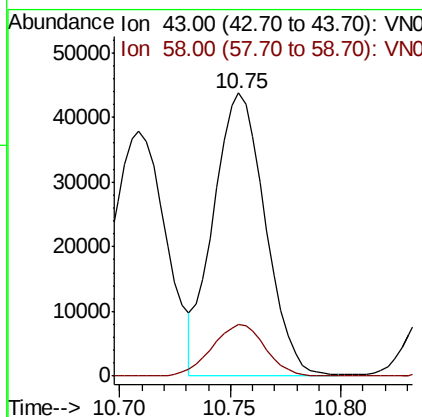
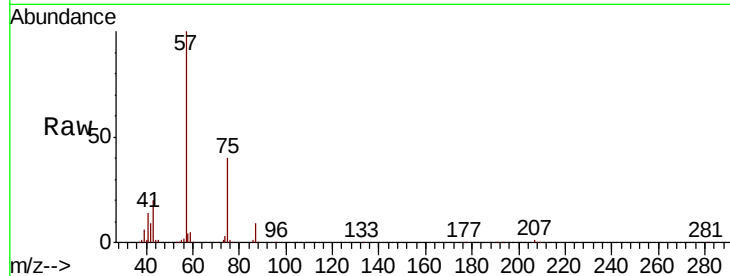




#59
2-Hexanone
Concen: 31.627 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060306.D
Acq: 2 Mar 2020 13:11

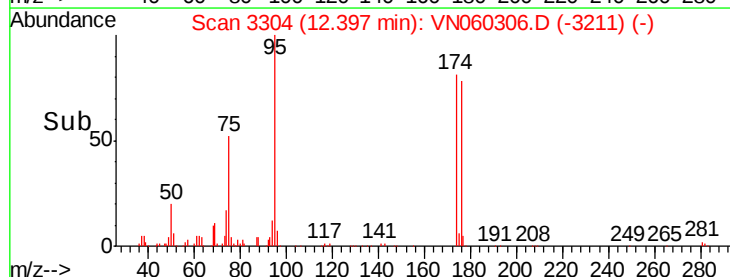
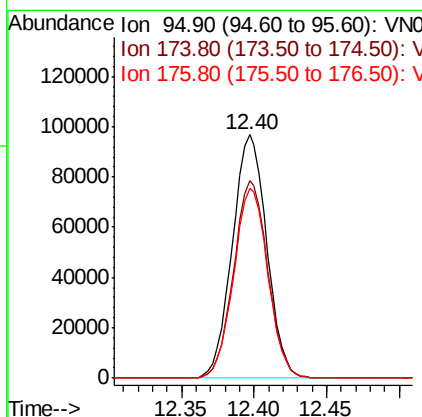
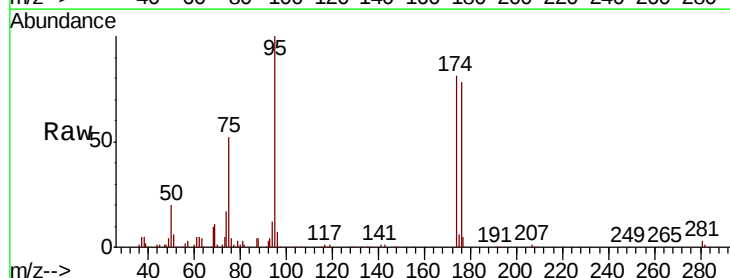
Instrument :
MSVOA_N
ClientSampled :

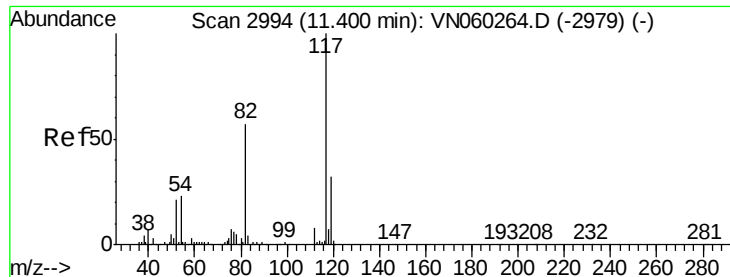
Tot Ion: 43 Resp: 70784
Ion Ratio Lower Upper
43 100
58 18.7 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 52.587 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060306.D
Acq: 2 Mar 2020 13:11

Tgt Ion: 95 Resp: 159364
Ion Ratio Lower Upper
95 100
174 80.3 0.0 159.2
176 77.7 0.0 153.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

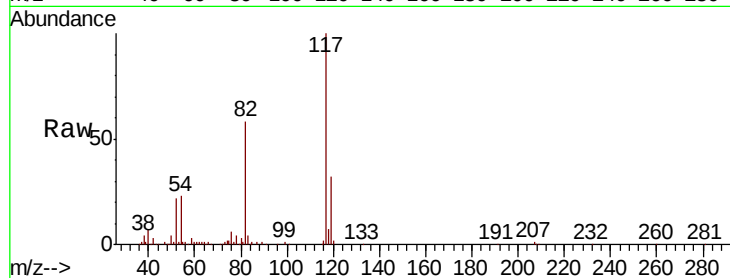
Instrument :

MSVOA_N

ClientSampled :

Tot Ion:117 Resp: 320559

Ion	Ratio	Lower	Upper
117	100		
82	57.5	45.8	68.6
119	32.3	25.8	38.8

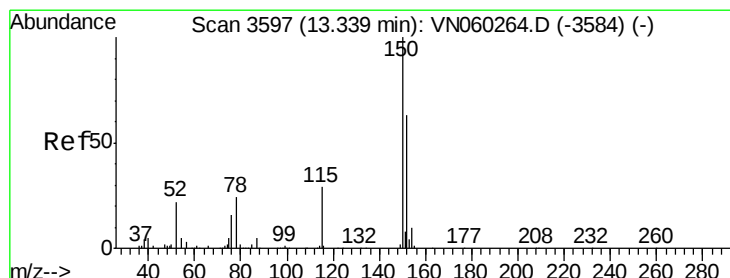
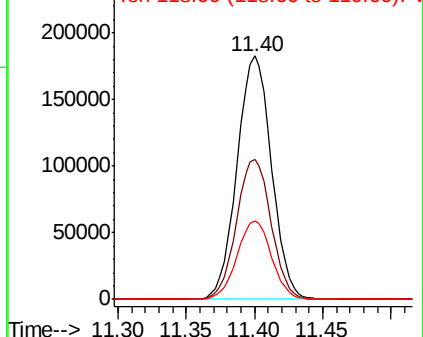
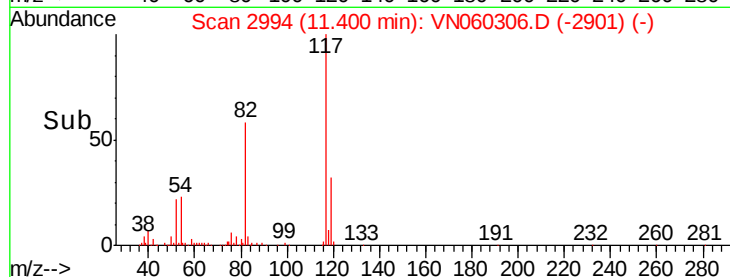


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

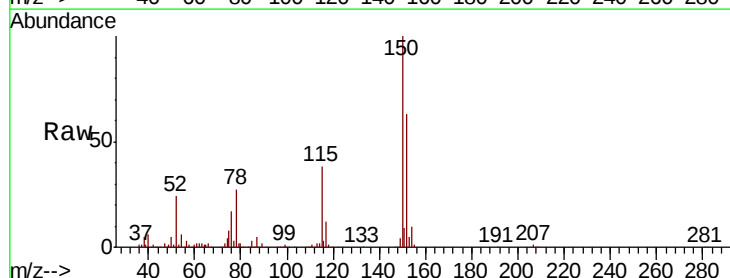
Delta R.T. 0.00 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

Tgt Ion:152 Resp: 150935

Ion	Ratio	Lower	Upper
152	100		
115	60.1	30.0	90.0
150	157.9	0.0	349.6

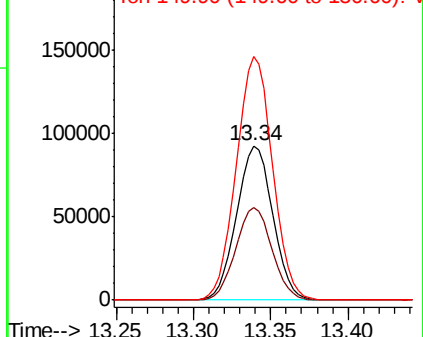
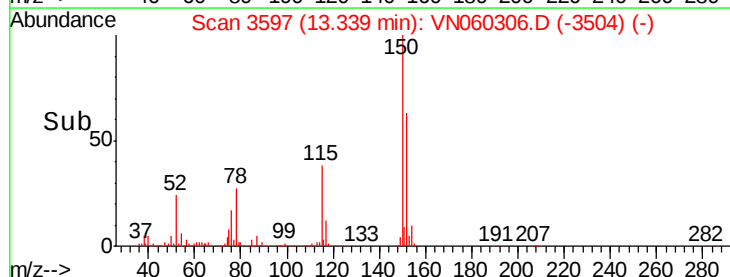


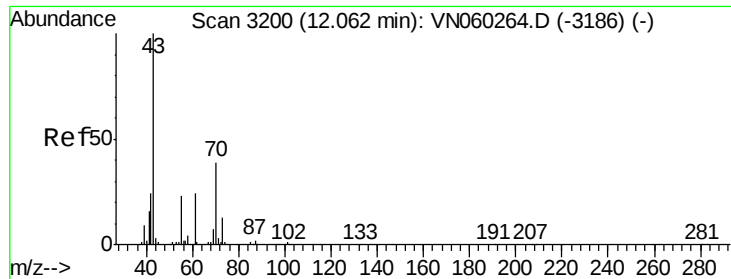
Abundance

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-amyl acetate

Concen: 0.980 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4789

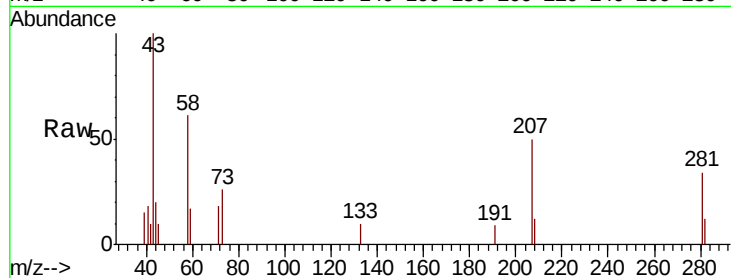
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

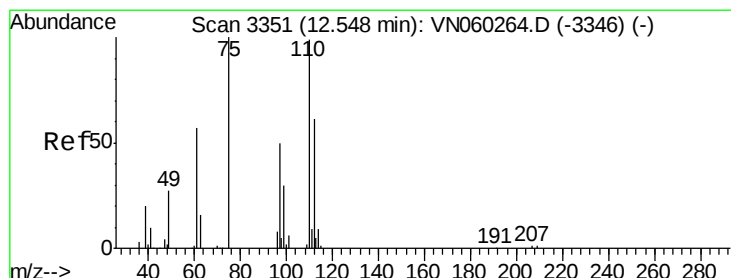
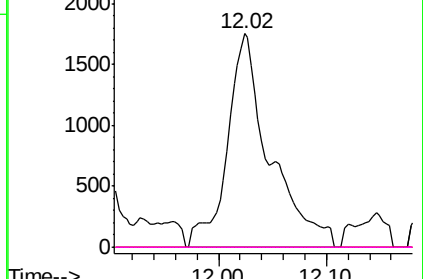
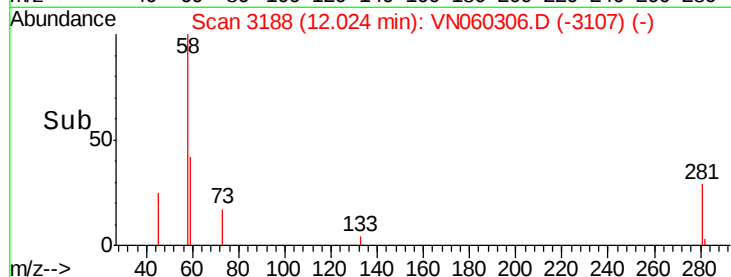


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 24.874 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060306.D

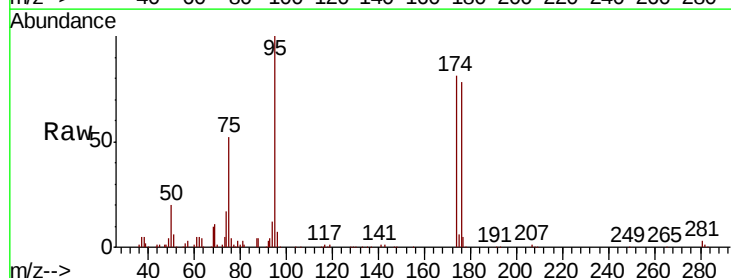
Acq: 2 Mar 2020 13:11

Tgt Ion: 75 Resp: 82372

Ion Ratio Lower Upper

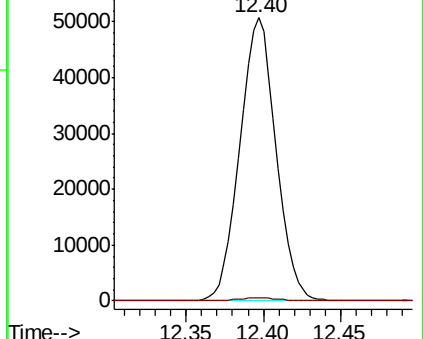
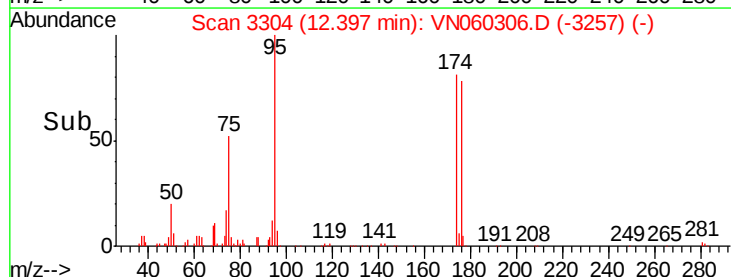
75 100

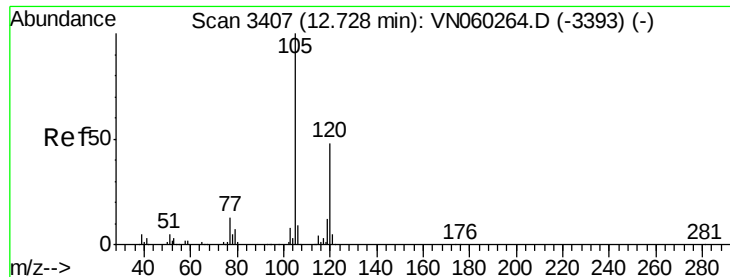
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.568 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

Instrument :

MSVOA_N

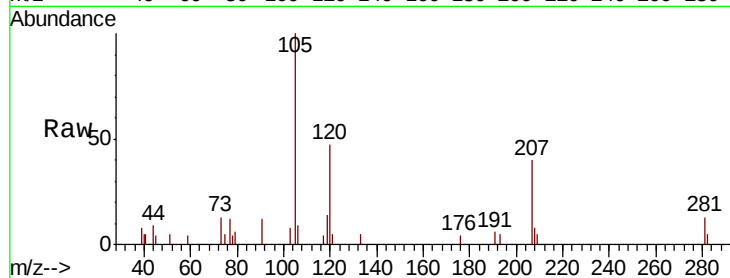
ClientSampleId :

Tot Ion:105 Resp: 5346

Ion Ratio Lower Upper

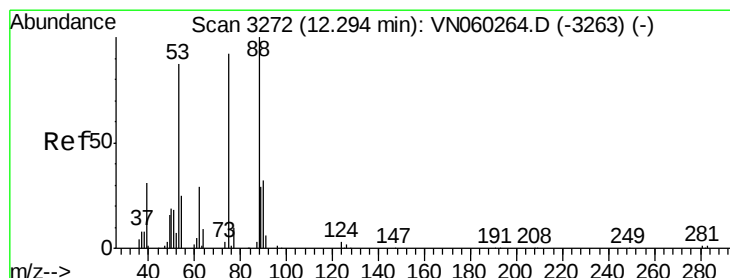
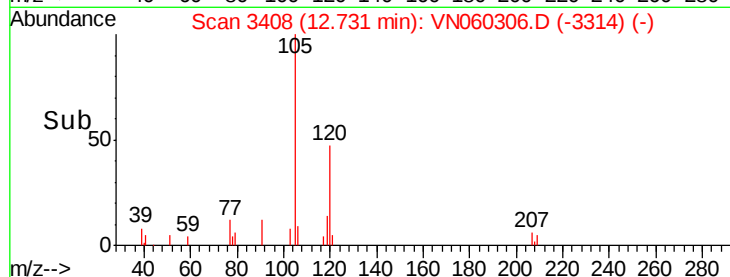
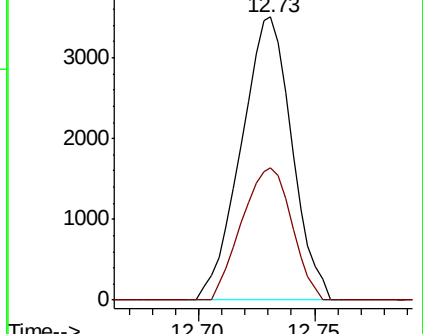
105 100

120 46.1 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 68.665 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

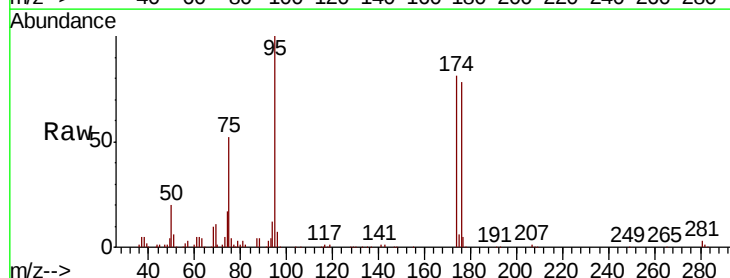
Tgt Ion: 75 Resp: 82372

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

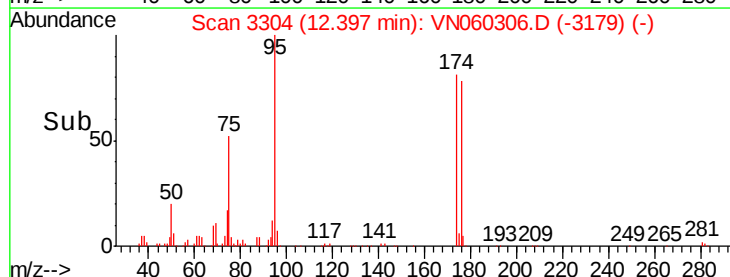
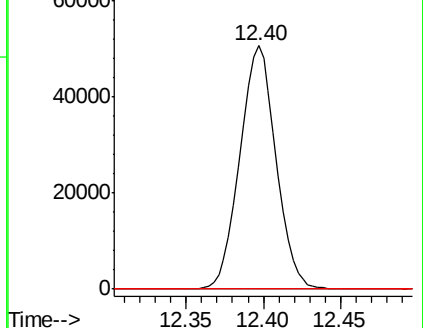
89 0.0 57.1 85.7#

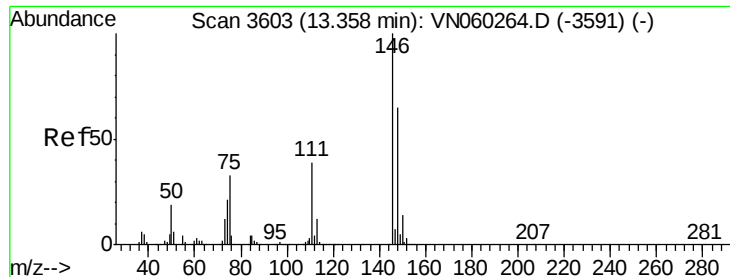


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

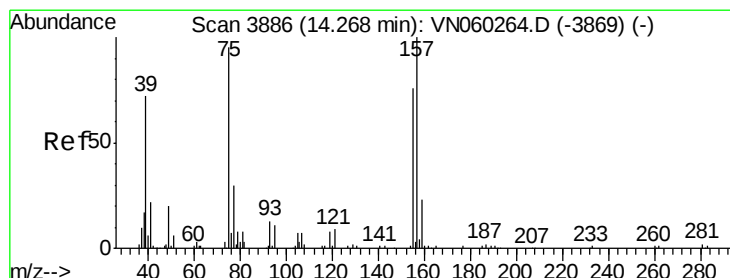
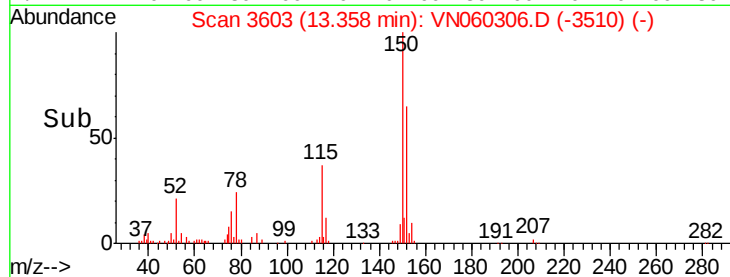
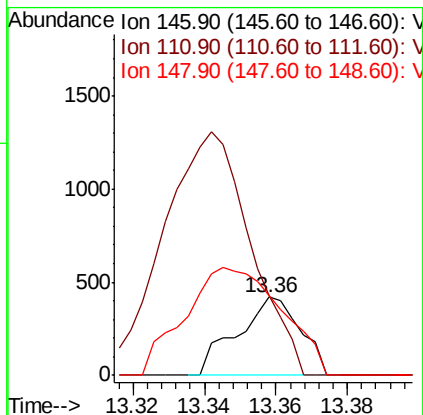
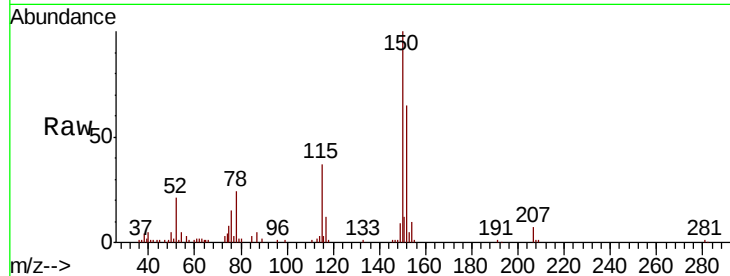




#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.36 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN060306.D
 Acq: 2 Mar 2020 13:11

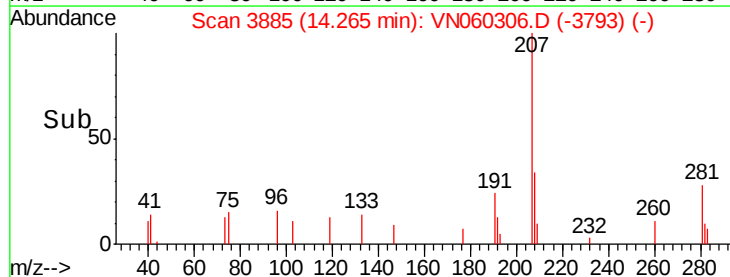
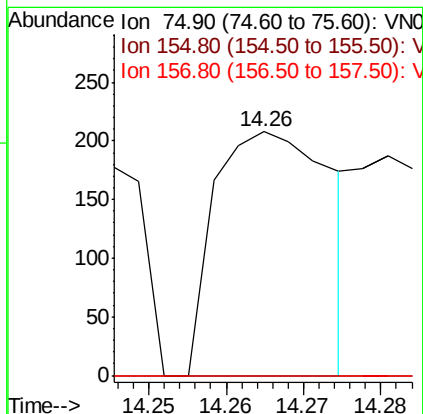
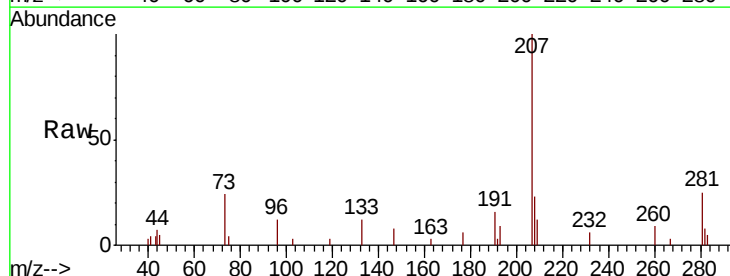
Instrument :
 MSVOA_N
 ClientSampleId :

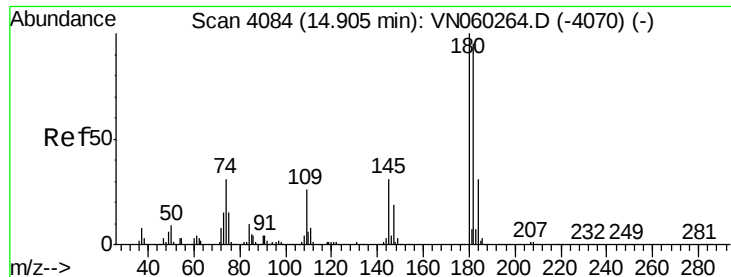
Tot Ion:146 Resp: 516
 Ion Ratio Lower Upper
 146 100
 111 427.7 19.8 59.4#
 148 210.3 32.3 96.9#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.315 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VN060306.D
 Acq: 2 Mar 2020 13:11

Tgt Ion: 75 Resp: 217
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.4 121.2#
 157 0.0 52.5 157.5#





#93

1,2,4-Trichlorobenzene

Concen: 0.294 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN060306.D

Acq: 2 Mar 2020 13:11

Instrument :

MSVOA_N

ClientSampleId :

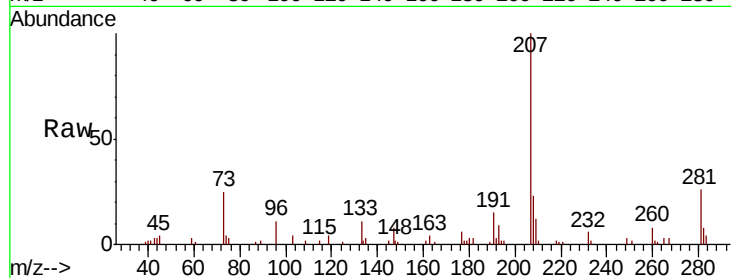
Tot Ion:180 Resp: 630

Ion Ratio Lower Upper

180 100

182 82.5 47.8 143.3

145 47.6 15.4 46.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

