

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022820\
 Data File : VN060284.D
 Acq On : 28 Feb 2020 15:04
 Operator : JC/MD
 Sample : PB127123ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 29 00:37:29 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	215685	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	350380	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	333699	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	161610	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	136354	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
35) Dibromofluoromethane	7.56	113	94856	58.32	ug/l	0.00
Spiked Amount			Recovery	=	116.64%	
50) Toluene-d8	10.08	98	430809	52.34	ug/l	0.00
Spiked Amount			Recovery	=	104.68%	
62) 4-Bromofluorobenzene	12.40	95	165976	53.19	ug/l	0.00
Spiked Amount			Recovery	=	106.38%	

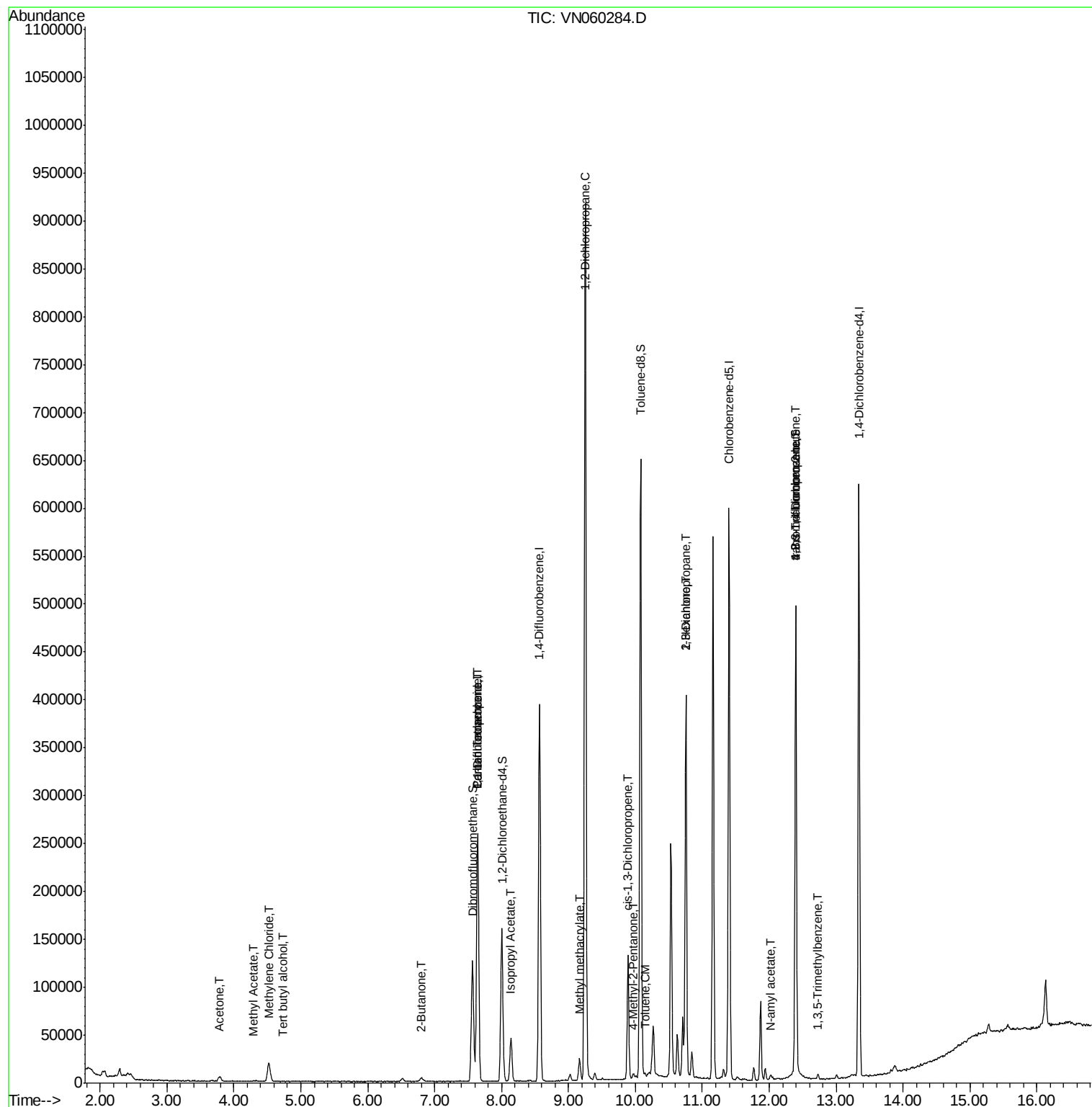
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	1347	3.278	ug/l #	73
12) 1,1-Dichloroethene	3.72	96	62	Below Cal	#	1
16) Acetone	3.79	43	8913	9.974	ug/l	99
18) Methyl Acetate	4.30	43	1625	0.545	ug/l #	60
20) Methylene Chloride	4.52	84	14508	5.911	ug/l	92
21) trans-1,2-Dichloroethene	5.00	96	60	Below Cal	#	1
25) 2-Butanone	6.81	43	7750	5.369	ug/l	98
31) Cyclohexane	7.64	56	4824	Below Cal	#	13
36) 1,1-Dichloropropene	7.64	75	16882	5.056	ug/l #	50
38) Carbon Tetrachloride	7.64	117	20619	6.342	ug/l #	16
43) Isopropyl Acetate	8.14	43	52892	9.555	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	1031	0.406	ug/l #	44
48) Methyl methacrylate	9.16	41	3592	1.423	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3806	1.213	ug/l	88
52) Toluene	10.15	92	1322	0.217	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	23247	5.460	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	4080	1.019	ug/l #	42
59) 2-Hexanone	10.75	43	60176	26.114	ug/l #	55
74) N-amyl acetate	12.02	43	4845	0.926	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	86360	24.356	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2376	0.236	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	86360	67.234	ug/l #	8
87) 1,3-Dichlorobenzene	13.28	146	239	Below Cal	#	61
88) 1,4-Dichlorobenzene	13.36	146	184	Below Cal	#	1
95) Naphthalene	15.13	128	520	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.32	180	29	Below Cal	#	1

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

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Feb 29 00:37:29 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
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: VN060284.D

Acq: 28 Feb 2020 15:04

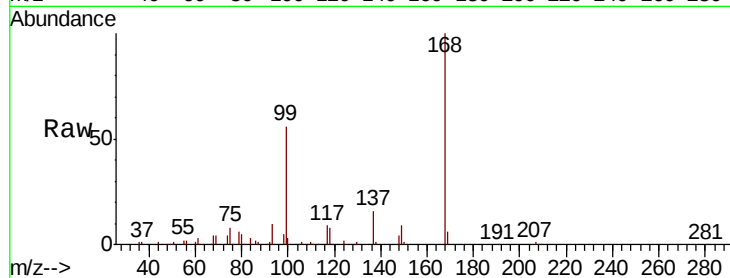
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 215685

Ion Ratio Lower Upper

168 100

99 56.5 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

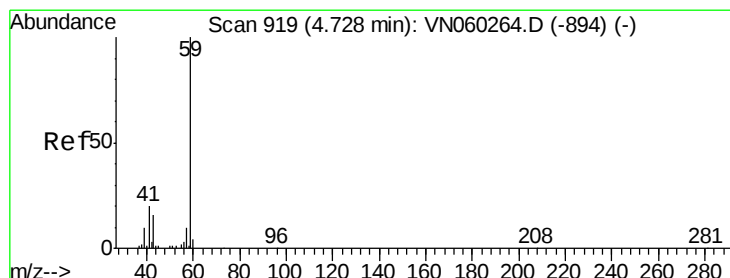
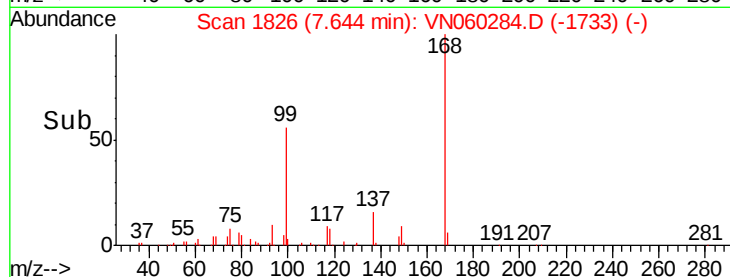
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 3.278 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.00 min

Lab File: VN060284.D

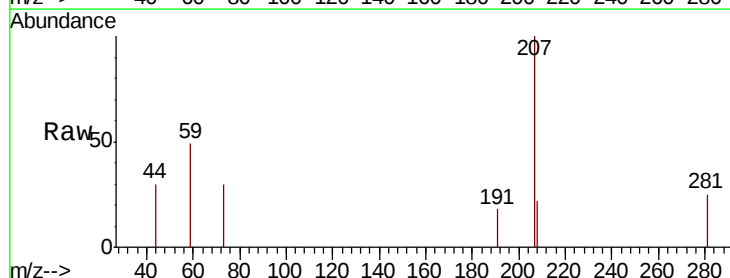
Acq: 28 Feb 2020 15:04

Tgt Ion: 59 Resp: 1347

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

4.73

500

400

300

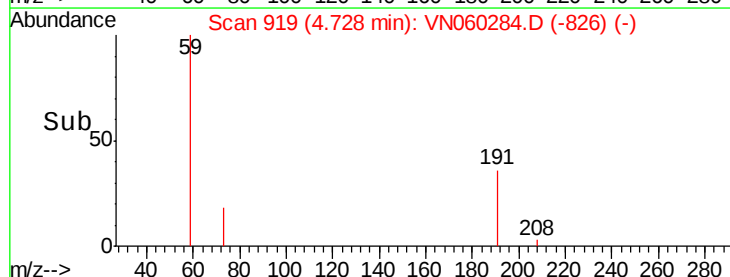
200

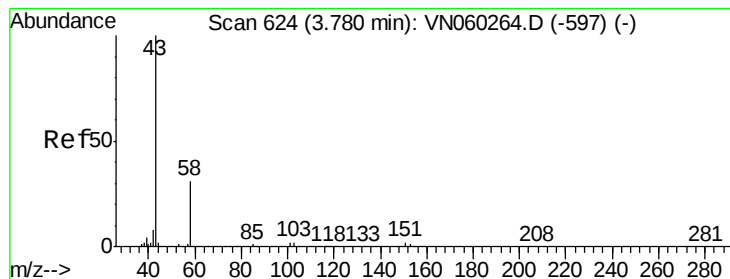
100

0

4.65 4.70 4.75 4.80

Time-->





#16

Acetone

Concen: 9.974 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060284.D

Acq: 28 Feb 2020 15:04

Instrument :

MSVOA_N

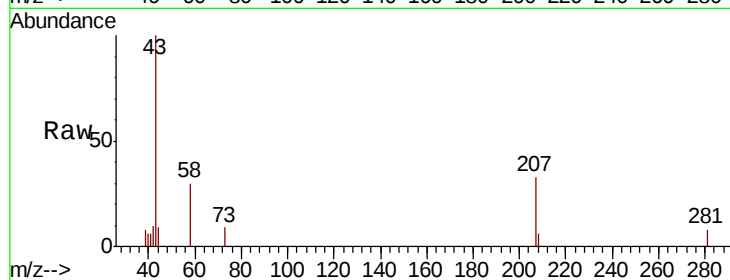
ClientSampled :

Tot Ion: 43 Resp: 8913

Ion Ratio Lower Upper

43 100

58 30.0 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060284.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060284.D (-597) (-)

3.79

3000

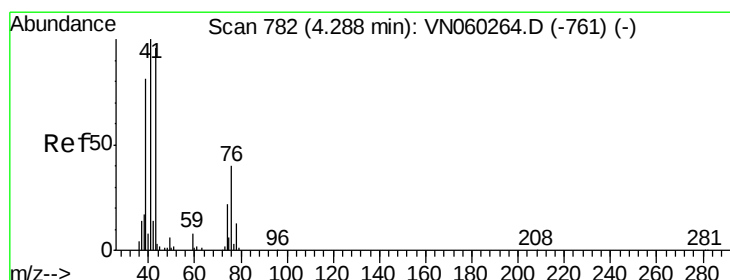
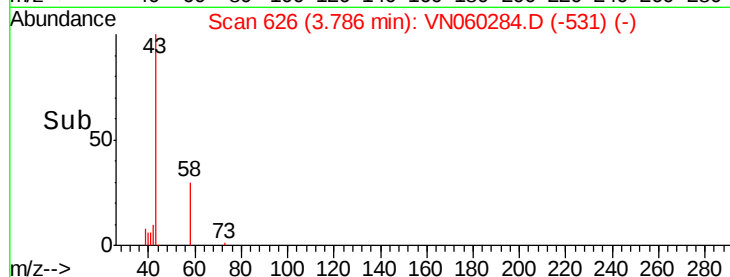
2000

1000

0

Time-->

3.70 3.75 3.80 3.85



#18

Methyl Acetate

Concen: 0.545 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.01 min

Lab File: VN060284.D

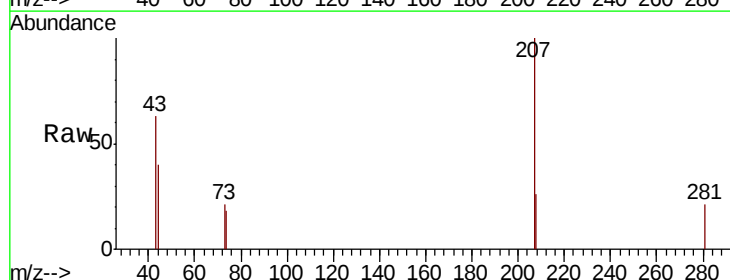
Acq: 28 Feb 2020 15:04

Tgt Ion: 43 Resp: 1625

Ion Ratio Lower Upper

43 100

74 3.8 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN060284.D (-761) (-)

Ion 74.00 (73.70 to 74.70): VN060284.D (-761) (-)

4.30

600

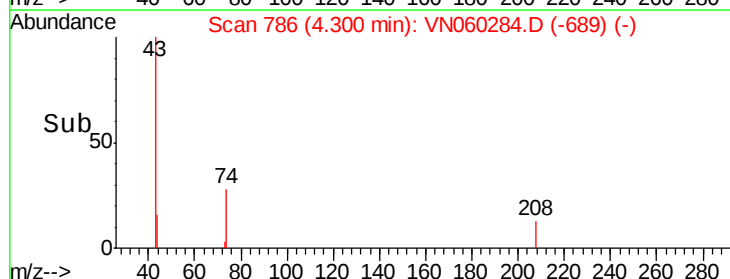
400

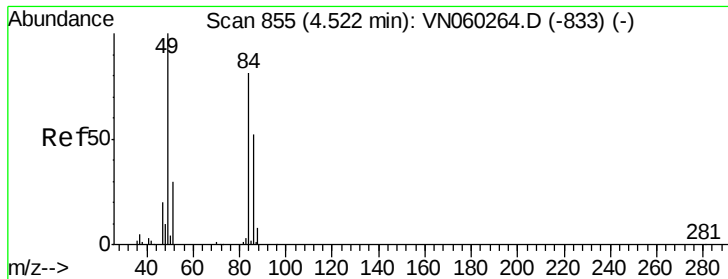
200

0

Time-->

4.25 4.30 4.35

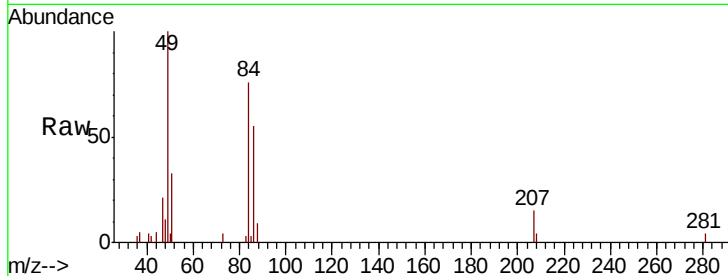




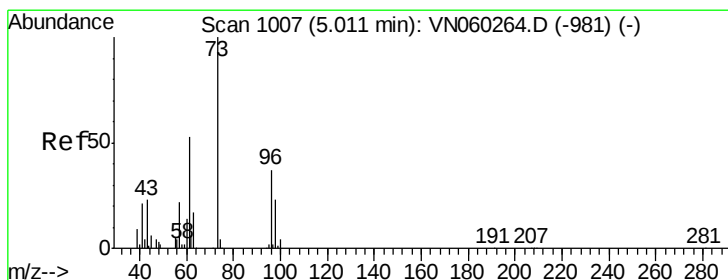
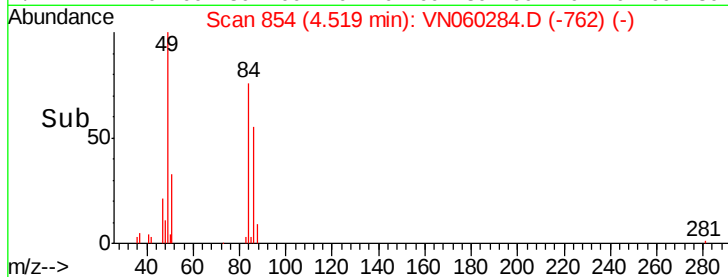
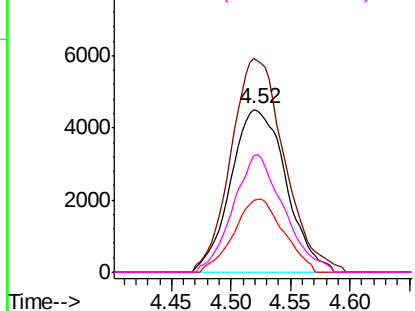
#20
Methvlene Chloride
Concen: 5.911 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060284.D
Acq: 28 Feb 2020 15:04

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	14508
Ion	Ratio	Lower	Upper
84	100		
49	131.1	99.3	148.9
51	43.8	30.1	45.1
86	71.5	51.1	76.7

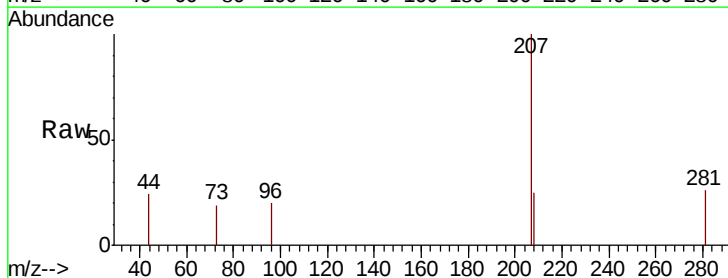


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

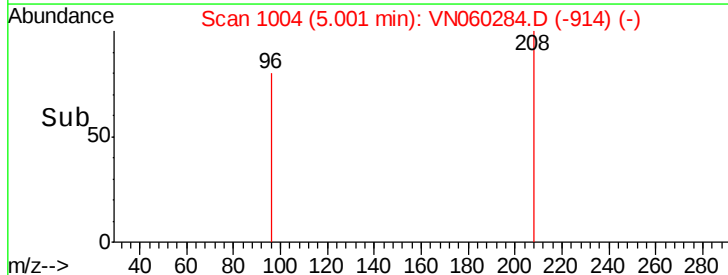
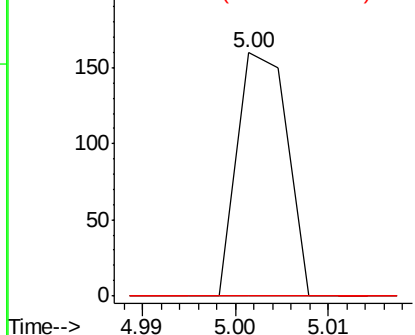


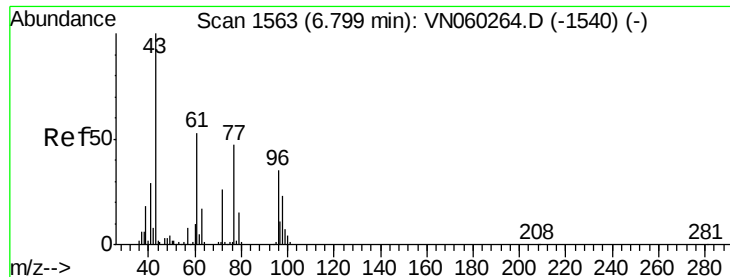
#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.00 min Scan# 1004
Delta R.T. -0.01 min
Lab File: VN060284.D
Acq: 28 Feb 2020 15:04

Tgt Ion:	96	Resp:	60
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

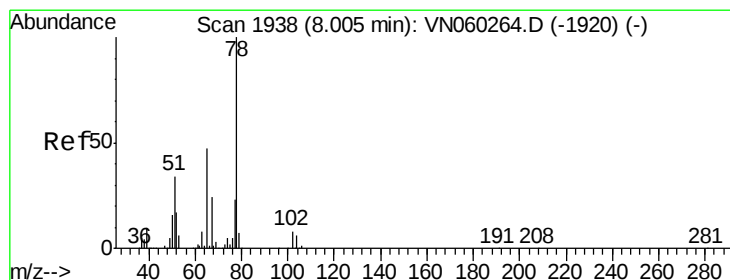
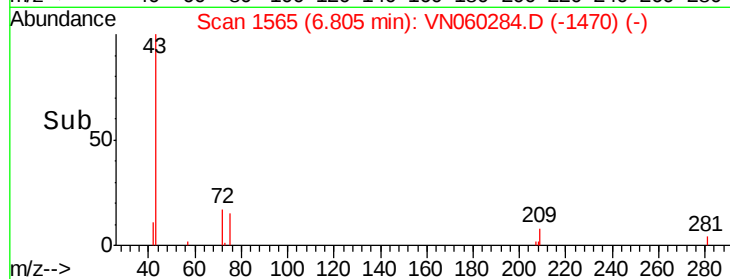
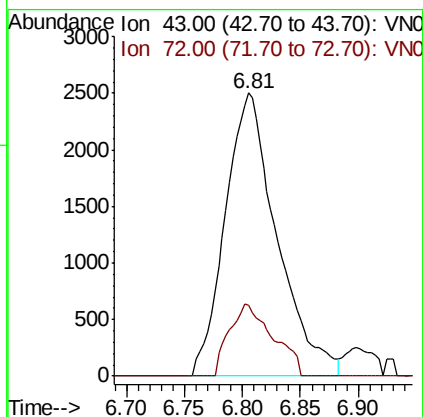
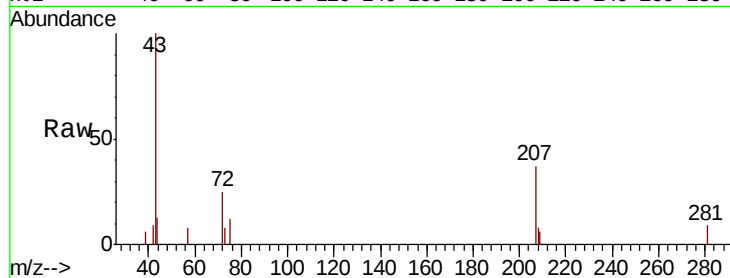




#25
2-Butanone
Concen: 5.369 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060284.D
Acq: 28 Feb 2020 15:04

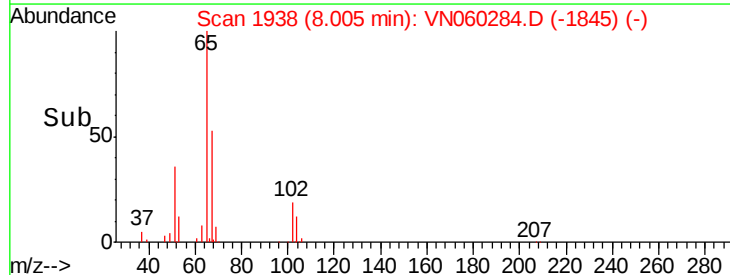
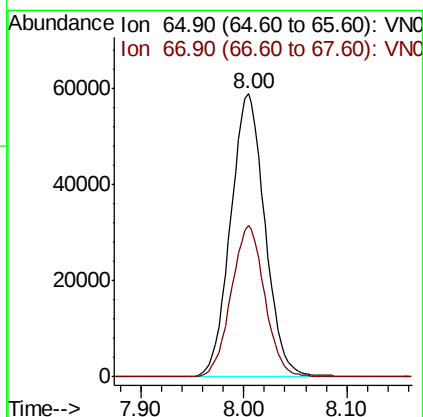
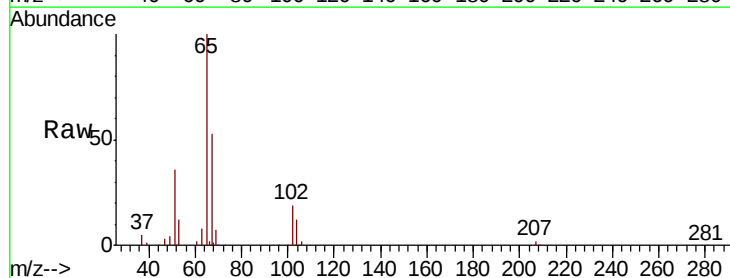
Instrument :
MSVOA_N
ClientSampleId :

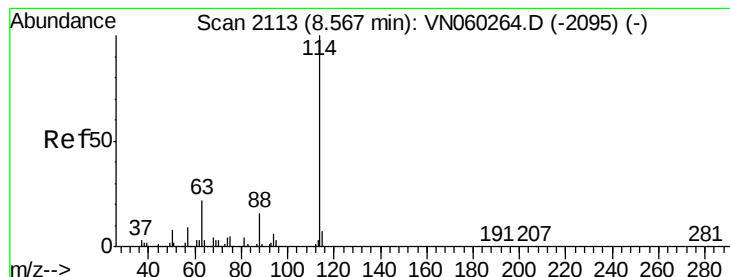
Tot Ion: 43 Resp: 7750
Ion Ratio Lower Upper
43 100
72 25.2 20.9 31.3



#33
1,2-Dichloroethane-d4
Concen: 49.274 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. -0.00 min
Lab File: VN060284.D
Acq: 28 Feb 2020 15:04

Tgt Ion: 65 Resp: 136354
Ion Ratio Lower Upper
65 100
67 52.1 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: VN060284.D

Acq: 28 Feb 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

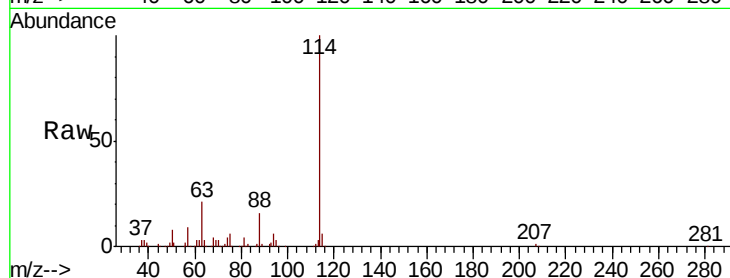
Tot Ion:114 Resp: 350380

Ion Ratio Lower Upper

114 100

63 21.0 0.0 43.2

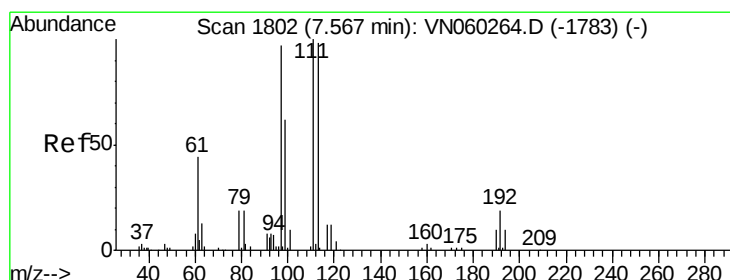
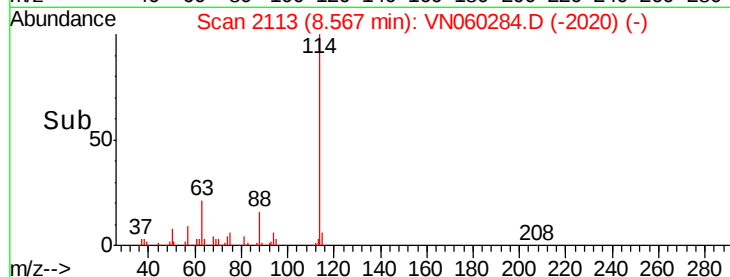
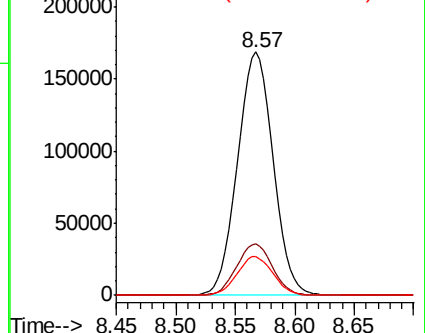
88 15.9 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 58.324 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060284.D

Acq: 28 Feb 2020 15:04

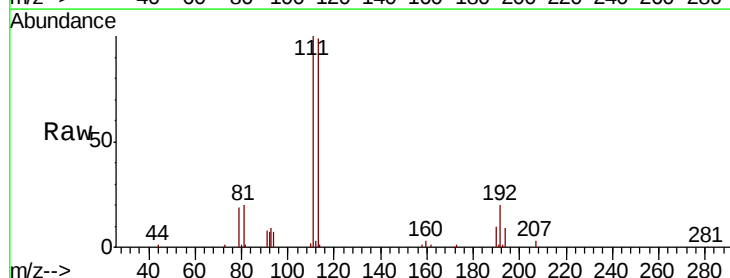
Tgt Ion:113 Resp: 94856

Ion Ratio Lower Upper

113 100

111 102.2 82.4 123.6

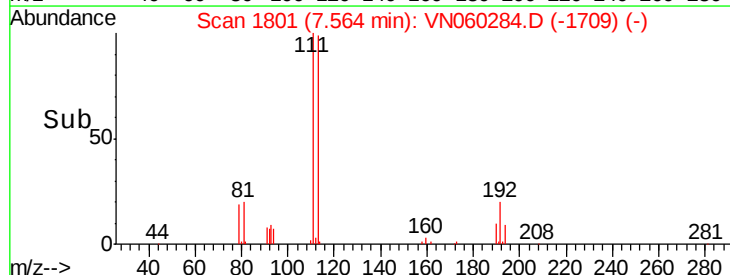
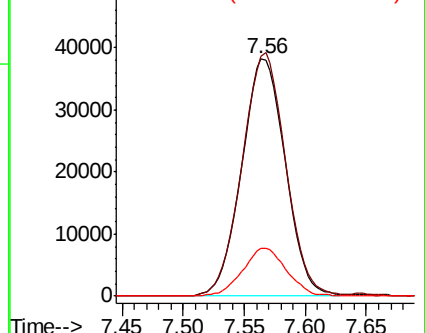
192 20.2 16.2 24.2

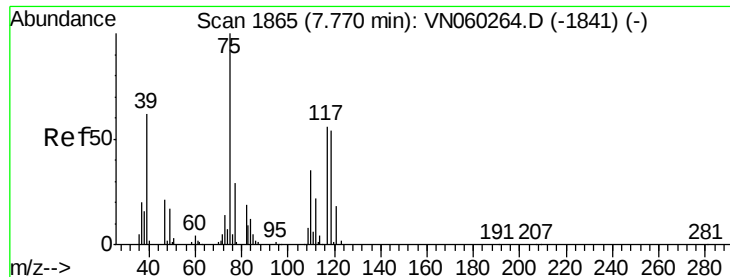


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

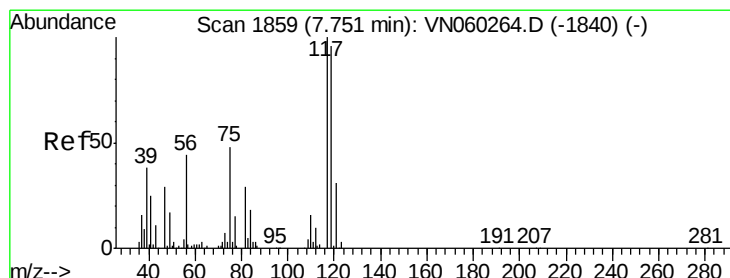
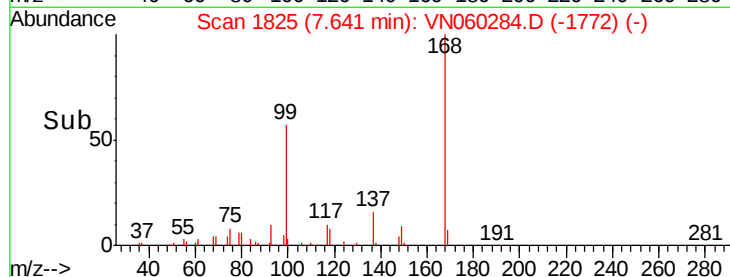
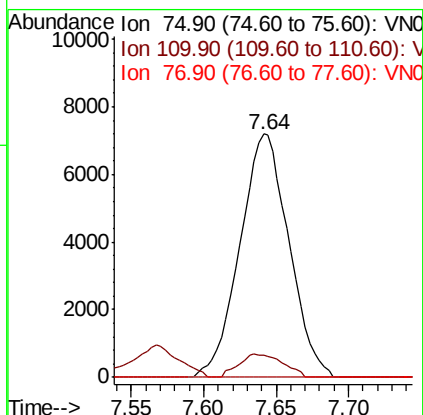
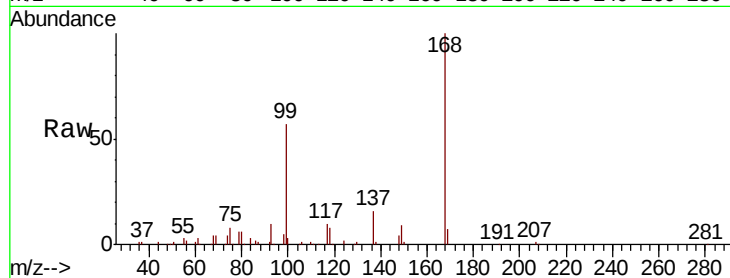




#36
 1,1-Dichloropropene
 Concen: 5.056 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060284.D
 Acq: 28 Feb 2020 15:04

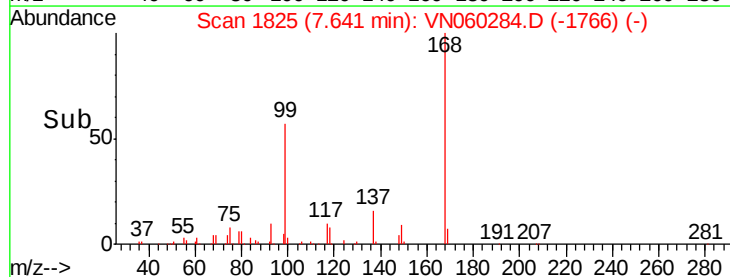
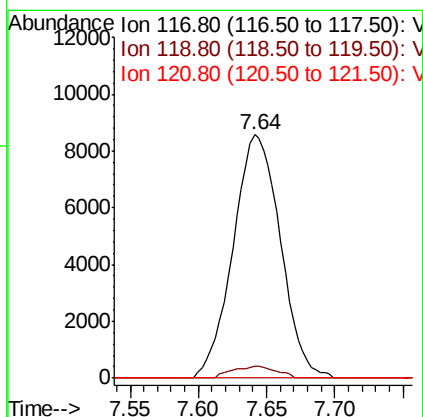
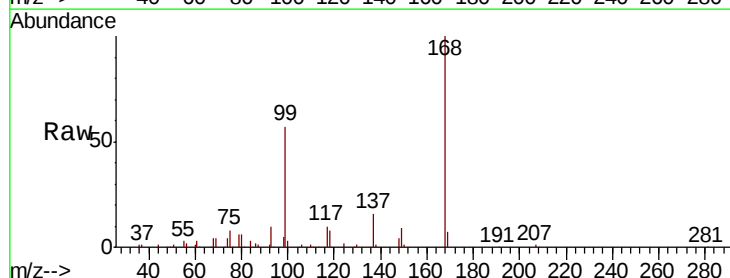
Instrument :
 MSVOA_N
 ClientSampleId :

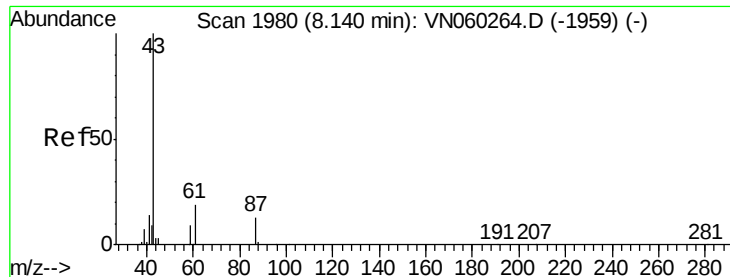
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	17.3	52.0#
77	0.0	24.2	36.2#



#38
 Carbon Tetrachloride
 Concen: 6.342 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060284.D
 Acq: 28 Feb 2020 15:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.7	115.1#
121	0.0	24.5	36.7#





#43

Isopropyl Acetate

Concen: 9.555 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060284.D

Acq: 28 Feb 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

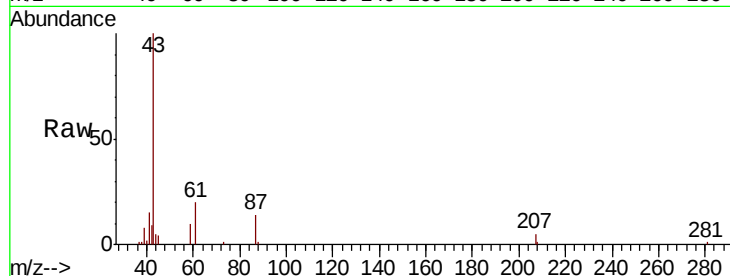
Tot Ion: 43 Resp: 52892

Ion Ratio Lower Upper

43 100

61 20.2 20.9 31.3#

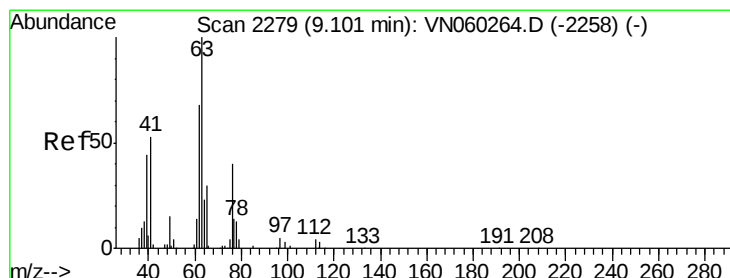
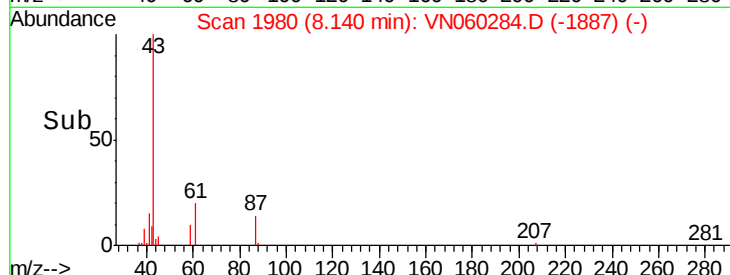
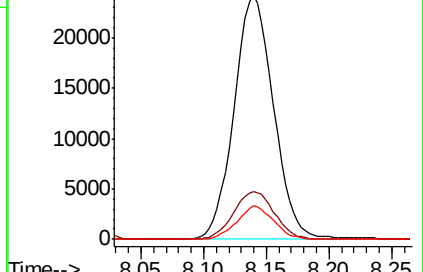
87 12.7 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060284.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060284.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060284.D (-1959) (-)



#45

1,2-Dichloropropane

Concen: 0.406 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060284.D

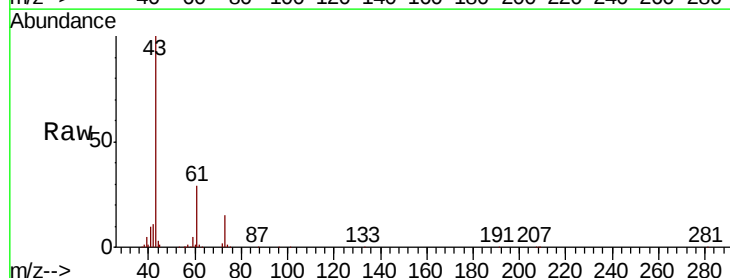
Acq: 28 Feb 2020 15:04

Tgt Ion: 63 Resp: 1031

Ion Ratio Lower Upper

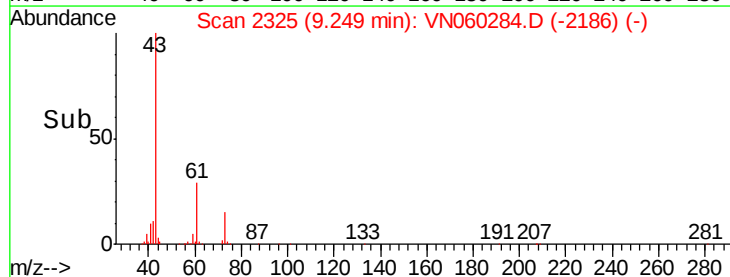
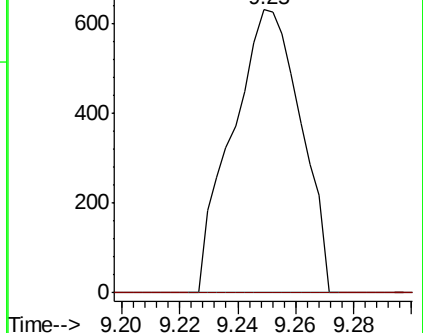
63 100

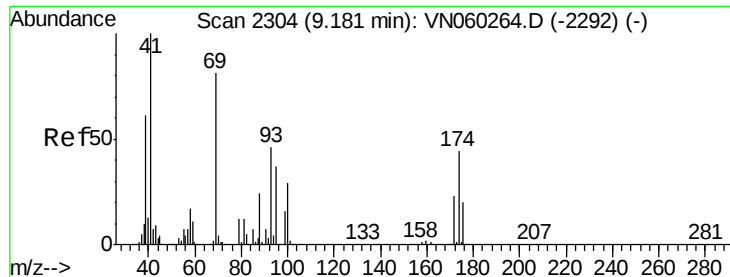
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060284.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060284.D (-2186) (-)

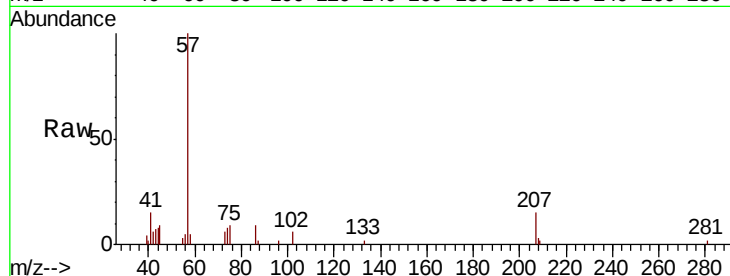




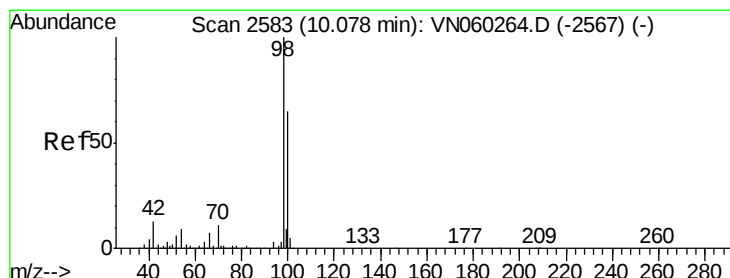
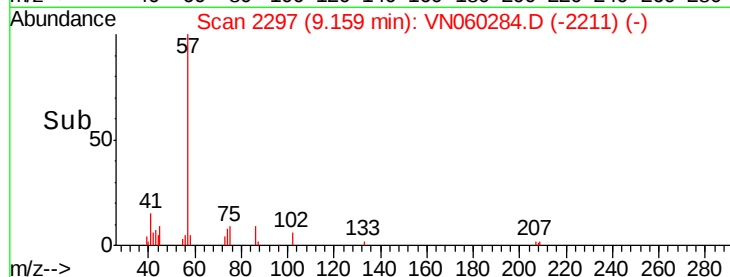
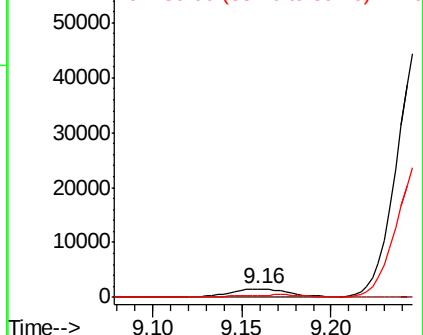
#48
Methvl methacrylate
Concen: 1.423 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060284.D
Acq: 28 Feb 2020 15:04

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 3592
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#

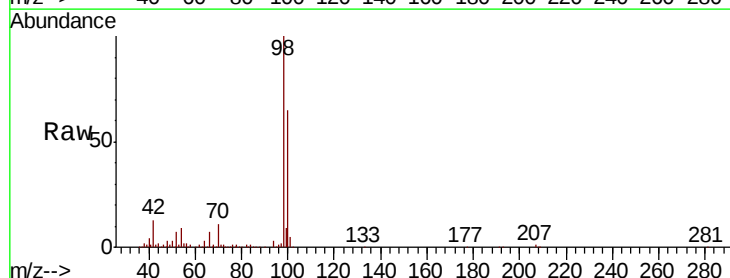


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

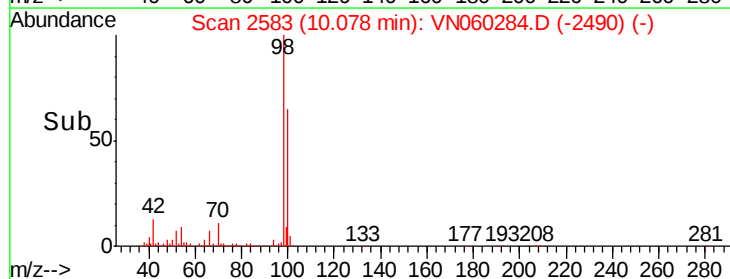
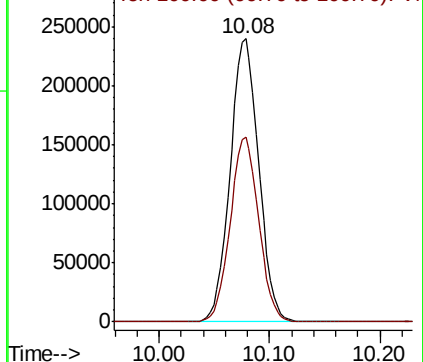


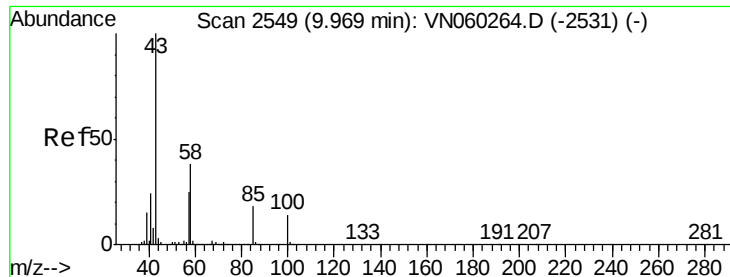
#50
Toluene-d8
Concen: 52.339 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060284.D
Acq: 28 Feb 2020 15:04

Tgt Ion: 98 Resp: 430809
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

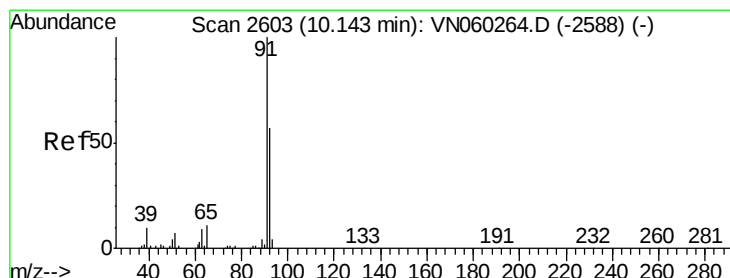
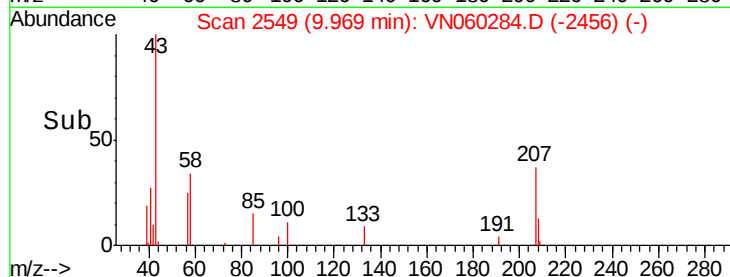
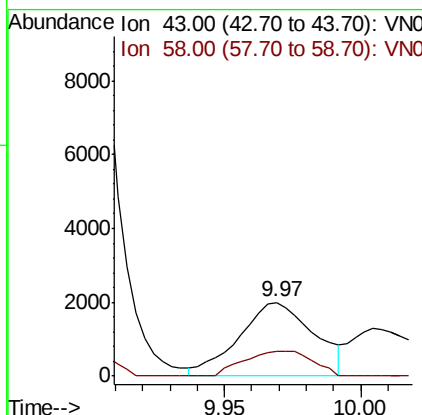
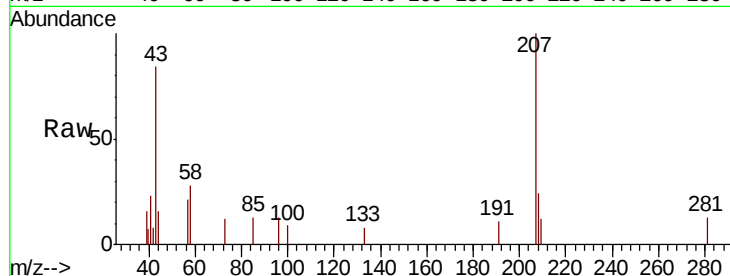




#51
4-Methyl-2-Pentanone
Concen: 1.213 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. -0.00 min
Lab File: VN060284.D
Acq: 28 Feb 2020 15:04

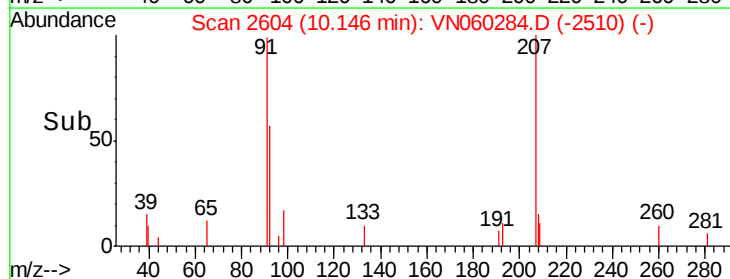
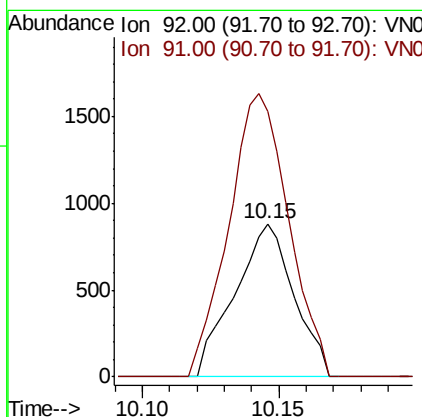
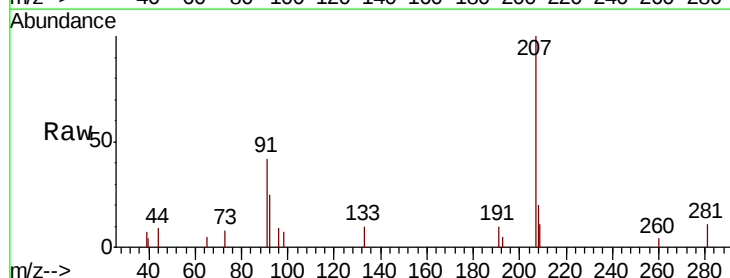
Instrument :
MSVOA_N
ClientSampled :

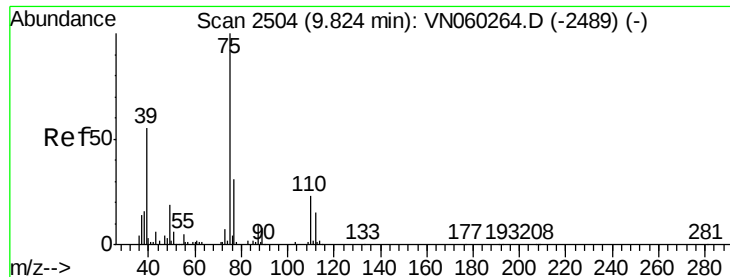
Tot Ion: 43 Resp: 3806
Ion Ratio Lower Upper
43 100
58 31.1 30.9 46.3



#52
Toluene
Concen: 0.217 ug/l
RT: 10.15 min Scan# 2604
Delta R.T. 0.00 min
Lab File: VN060284.D
Acq: 28 Feb 2020 15:04

Tgt Ion: 92 Resp: 1322
Ion Ratio Lower Upper
92 100
91 187.6 138.1 207.1





#54

cis-1,3-Dichloropropene

Concen: 5.460 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060284.D

Acq: 28 Feb 2020 15:04

Instrument :
MSVOA_N
ClientSampleId :

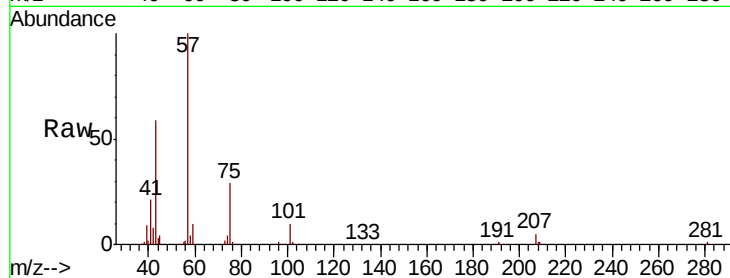
Tot Ion: 75 Resp: 23247

Ion Ratio Lower Upper

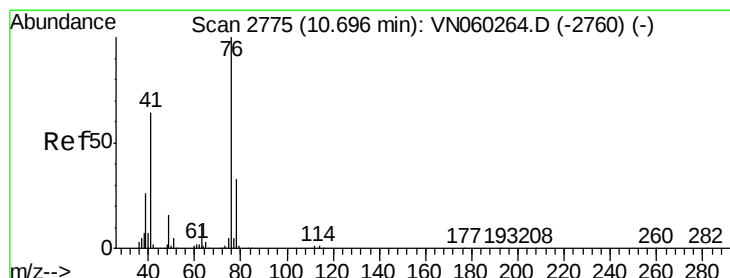
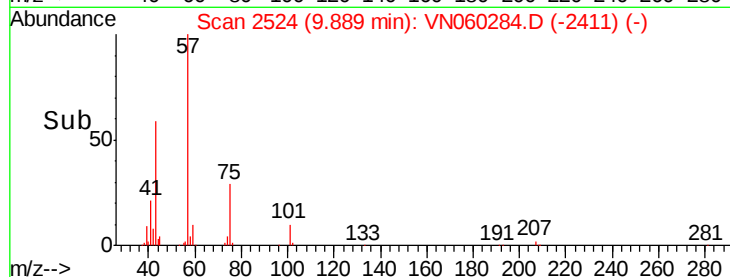
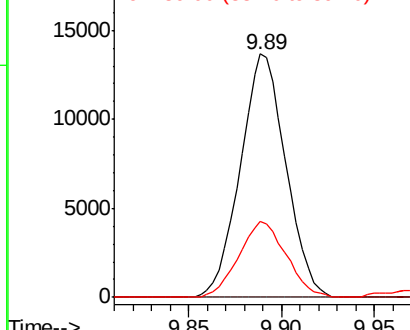
75 100

77 0.0 24.8 37.2#

39 31.0 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 1.019 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060284.D

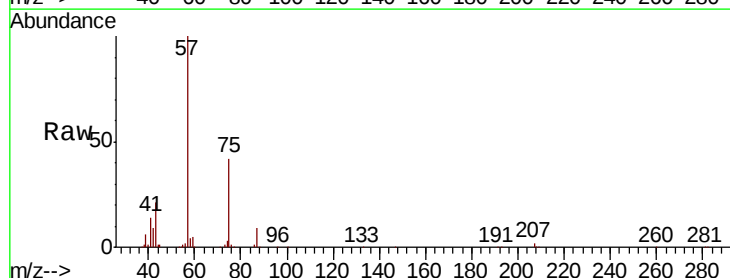
Acq: 28 Feb 2020 15:04

Tgt Ion: 76 Resp: 4080

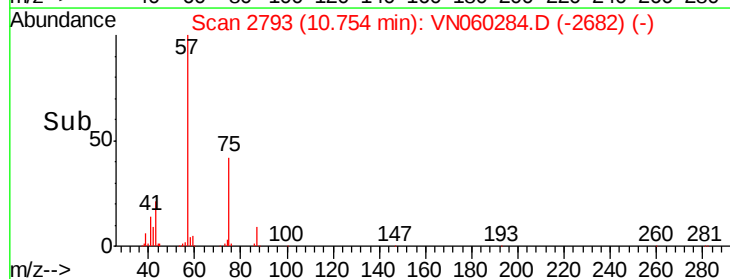
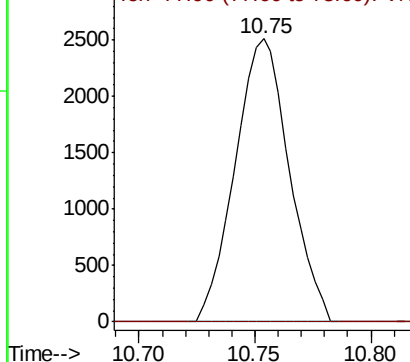
Ion Ratio Lower Upper

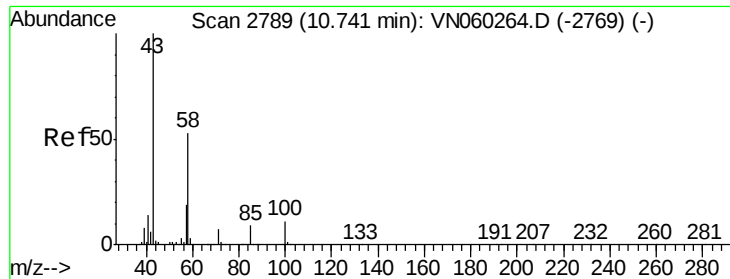
76 100

78 0.0 26.2 39.2#



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

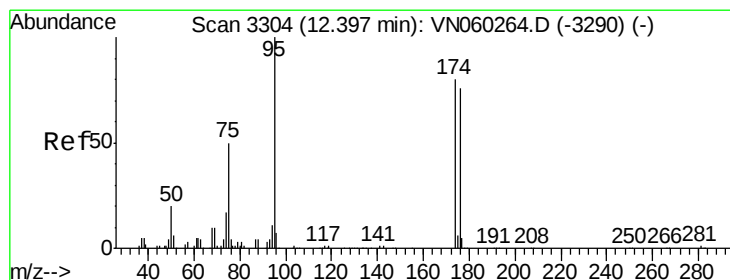
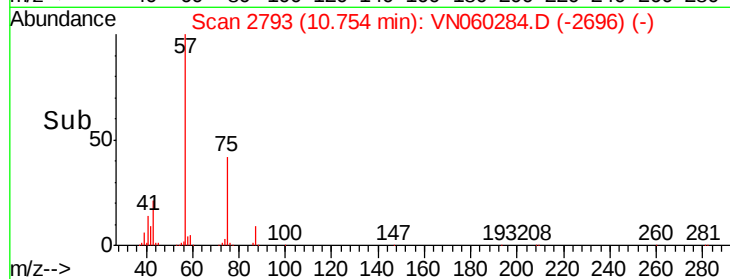
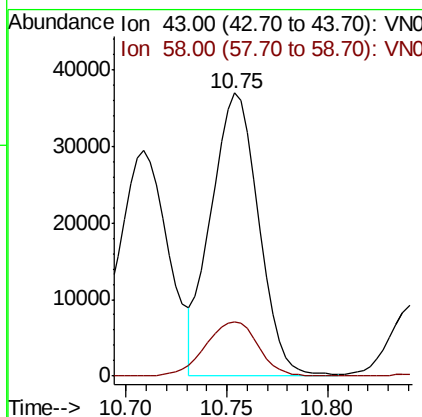
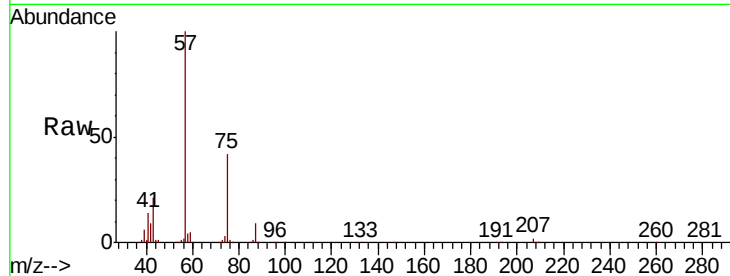




#59
2-Hexanone
Concen: 26.114 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060284.D
Acq: 28 Feb 2020 15:04

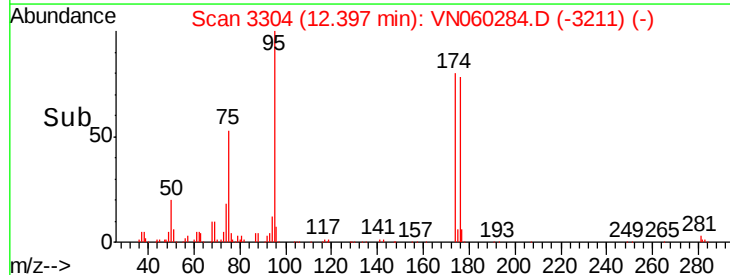
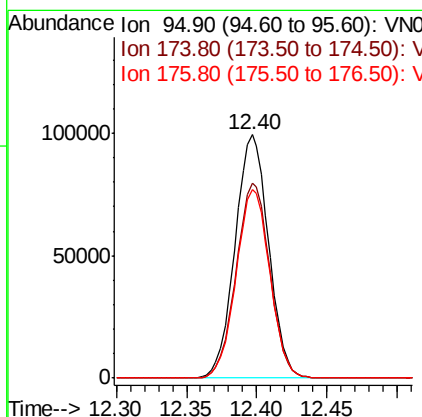
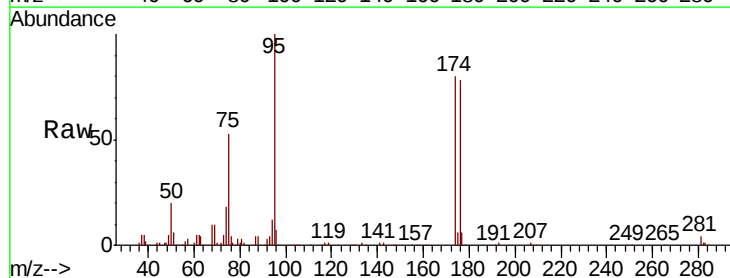
Instrument :
MSVOA_N
ClientSampled :

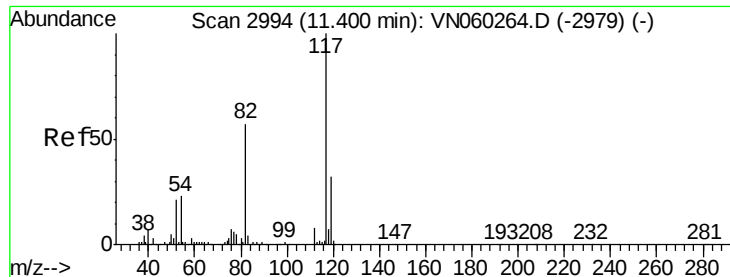
Tot Ion: 43 Resp: 60176
Ion Ratio Lower Upper
43 100
58 21.4 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 53.193 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060284.D
Acq: 28 Feb 2020 15:04

Tgt Ion: 95 Resp: 165976
Ion Ratio Lower Upper
95 100
174 80.4 0.0 159.2
176 77.9 0.0 153.8

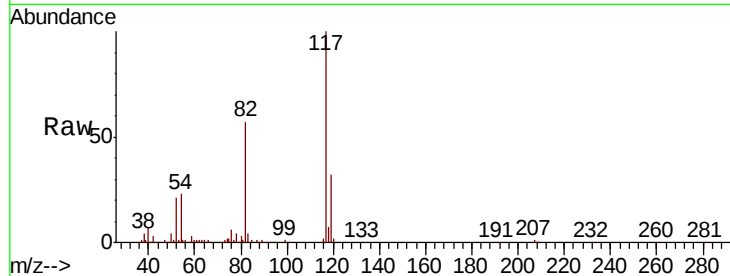




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060284.D
Acq: 28 Feb 2020 15:04

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.5	45.8	68.6
119	32.4	25.8	38.8

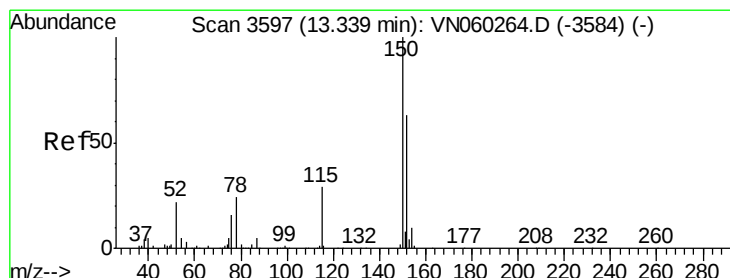
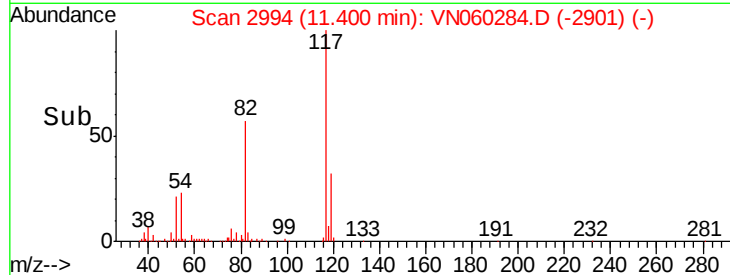
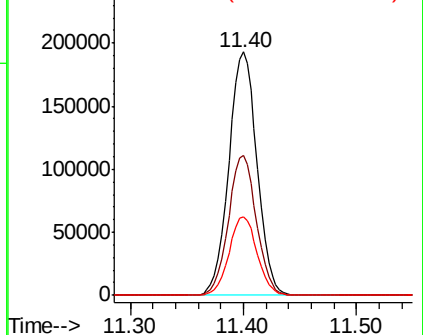


Abundance

Ion 116.90 (116.60 to 117.60): V

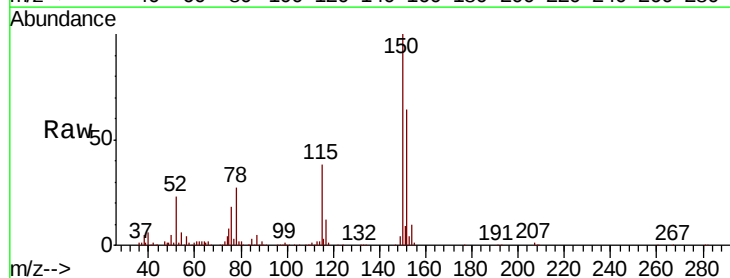
Ion 82.00 (81.70 to 82.70): V

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: VN060284.D
Acq: 28 Feb 2020 15:04

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.7	30.0	90.0
150	157.2	0.0	349.6

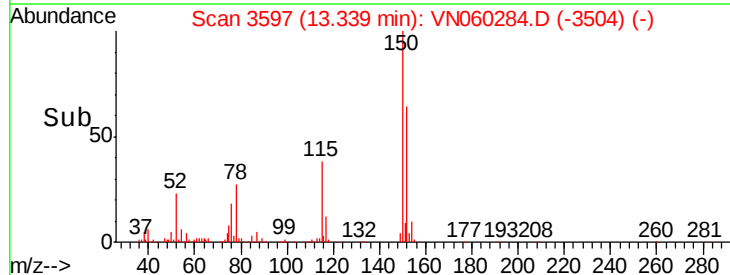
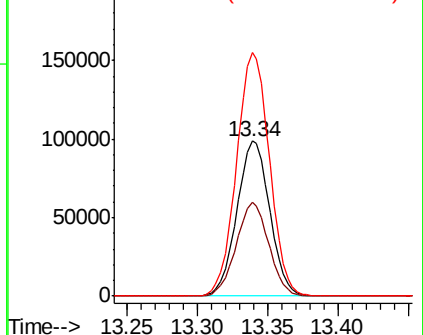


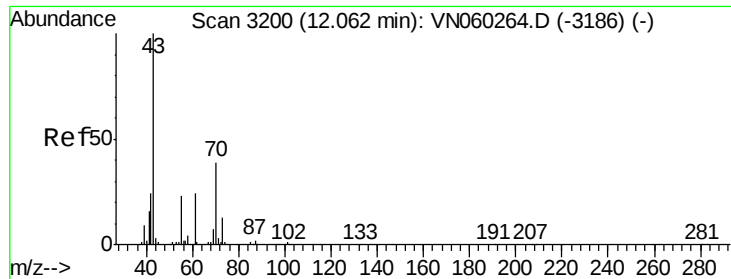
Abundance

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-amvl acetate

Concen: 0.926 ug/l

RT: 12.02 min Scan# 3186

Delta R.T. -0.05 min

Lab File: VN060284.D

Acq: 28 Feb 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4845

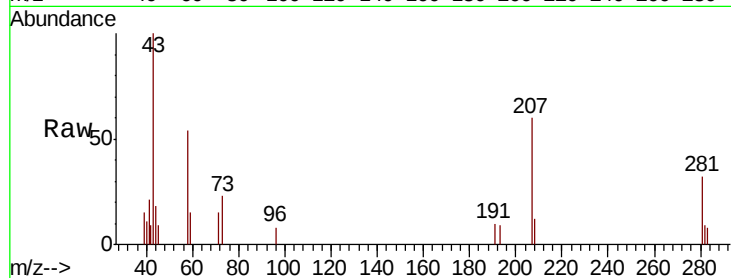
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

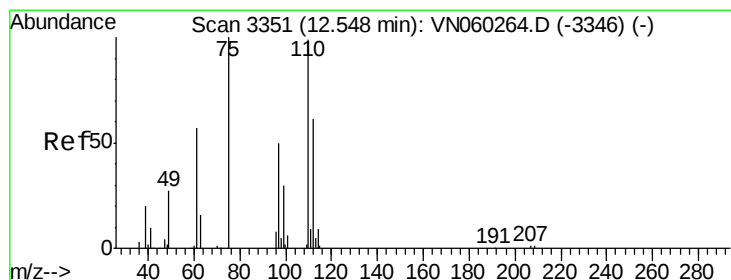
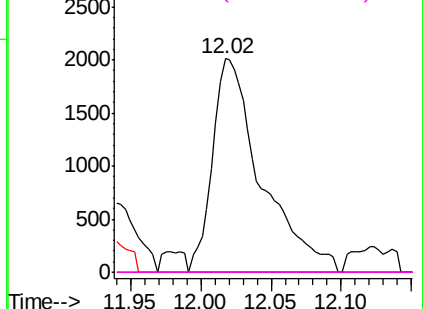
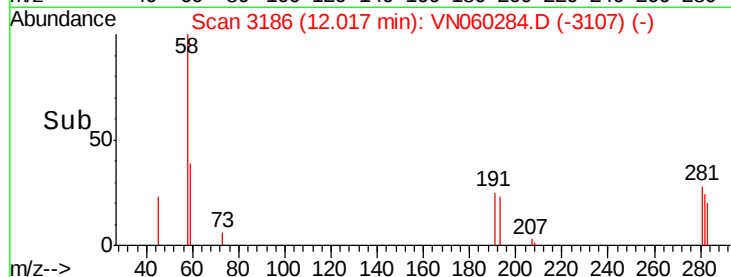


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.356 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060284.D

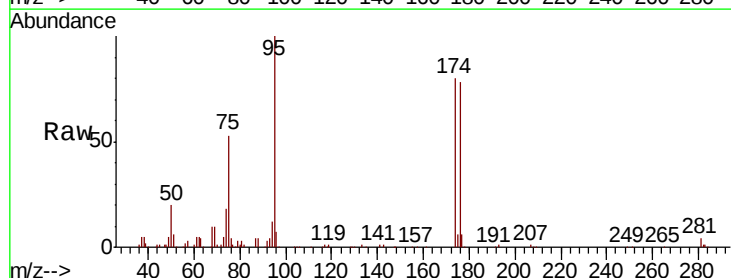
Acq: 28 Feb 2020 15:04

Tgt Ion: 75 Resp: 86360

Ion Ratio Lower Upper

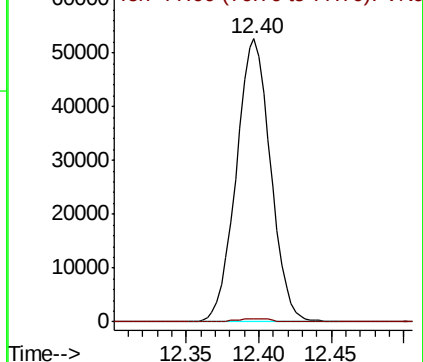
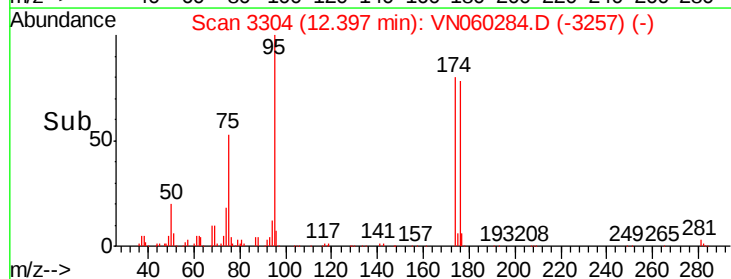
75 100

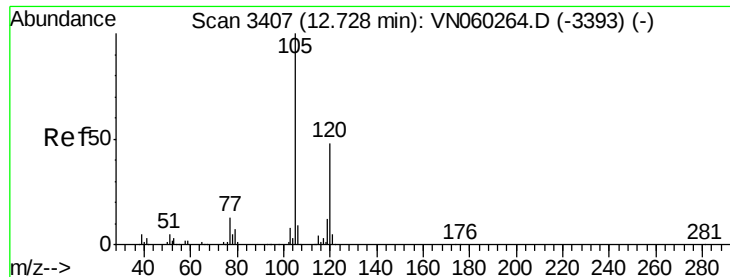
77 1.2 0.0 0.0#



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: 0.236 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060284.D

Acq: 28 Feb 2020 15:04

Instrument :

MSVOA_N

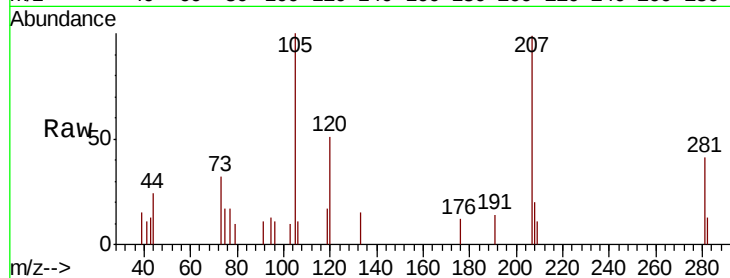
ClientSampleId :

Tot Ion:105 Resp: 2376

Ion Ratio Lower Upper

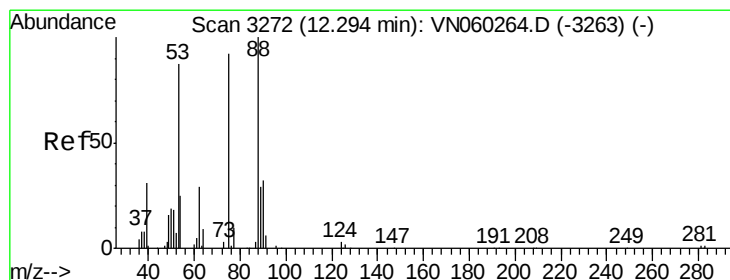
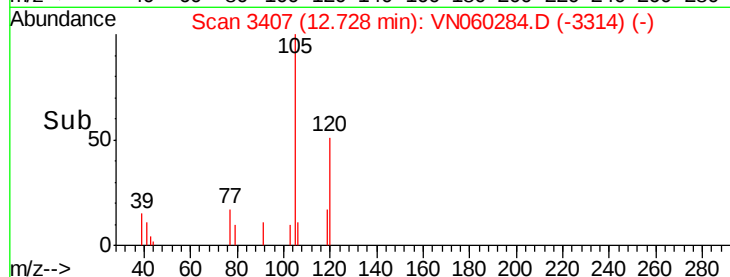
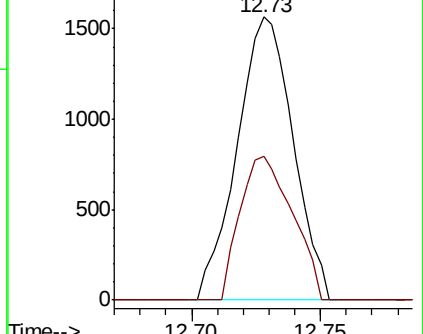
105 100

120 47.5 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: 67.234 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060284.D

Acq: 28 Feb 2020 15:04

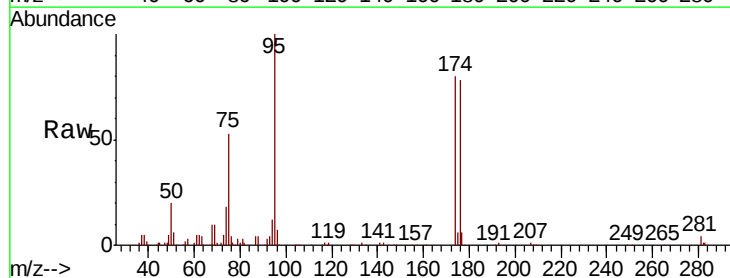
Tgt Ion: 75 Resp: 86360

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

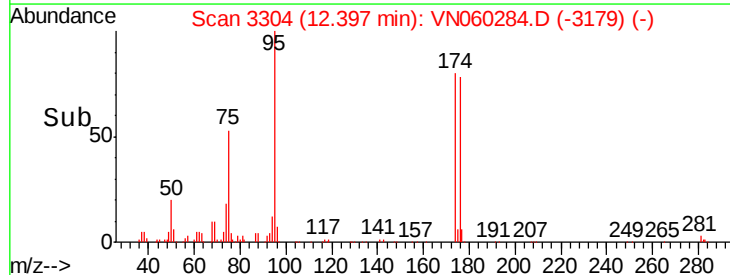
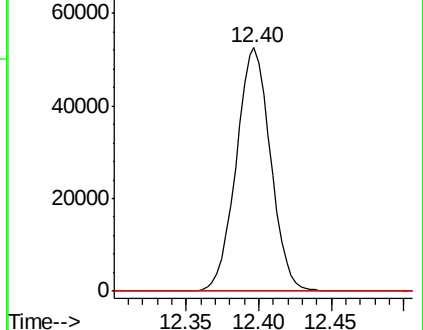
89 0.0 57.1 85.7#

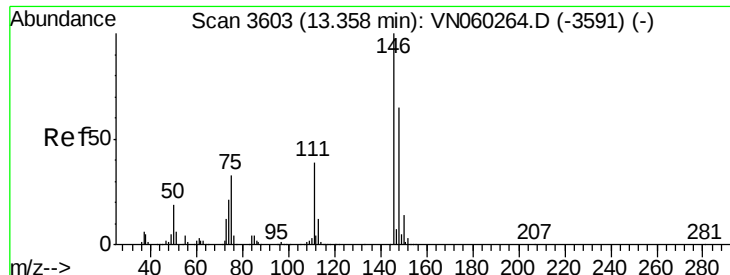


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

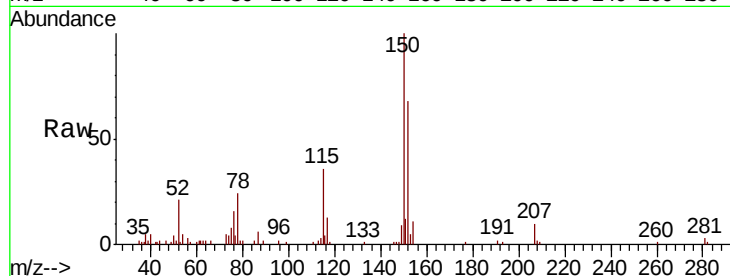




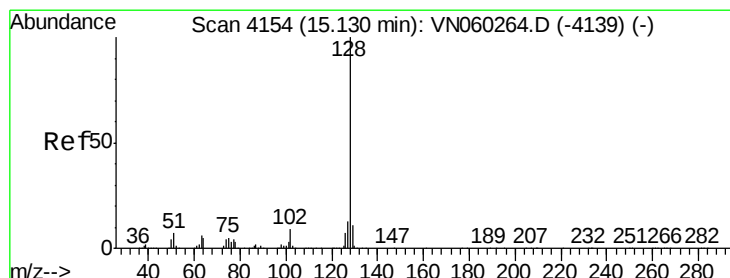
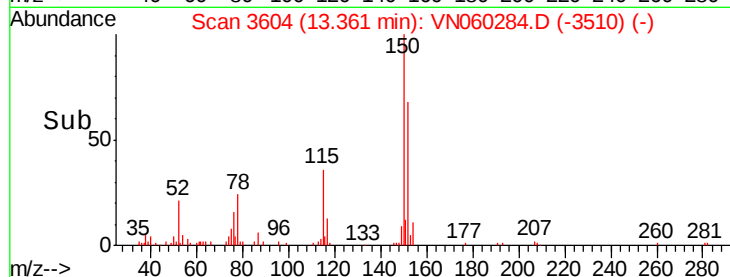
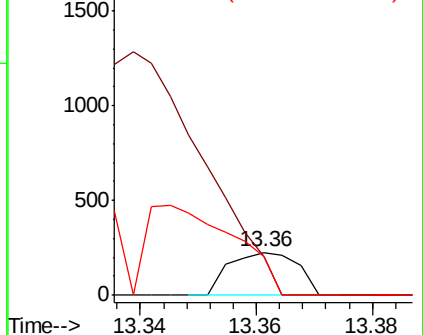
#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.36 min Scan# 3604
Delta R.T. 0.00 min
Lab File: VN060284.D
Acq: 28 Feb 2020 15:04

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:146 Resp: 184
Ion Ratio Lower Upper
146 100
111 0.0 19.8 59.4#
148 269.6 32.3 96.9#

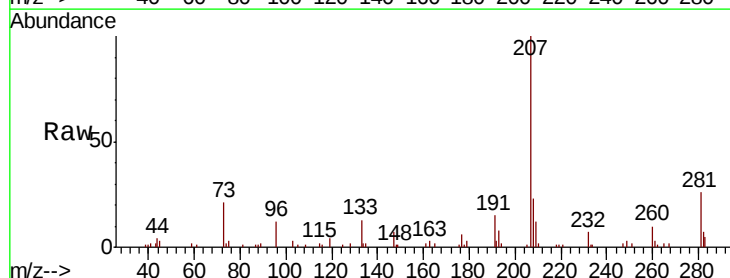


Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN060284.D
Acq: 28 Feb 2020 15:04

Tgt Ion:128 Resp: 520
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

