

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN030420\
 Data File : VN060350.D
 Acq On : 4 Mar 2020 15:49
 Operator : JC/MD
 Sample : L1748-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AU-06-030320

Quant Time: Mar 05 05:11:18 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	188777	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	310710	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	286957	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	134026	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	122609	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
35) Dibromofluoromethane	7.57	113	86068	59.68	ug/l	0.00
Spiked Amount			Recovery	=	119.36%	
50) Toluene-d8	10.08	98	382356	52.38	ug/l	0.00
Spiked Amount			Recovery	=	104.76%	
62) 4-Bromofluorobenzene	12.40	95	140775	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	

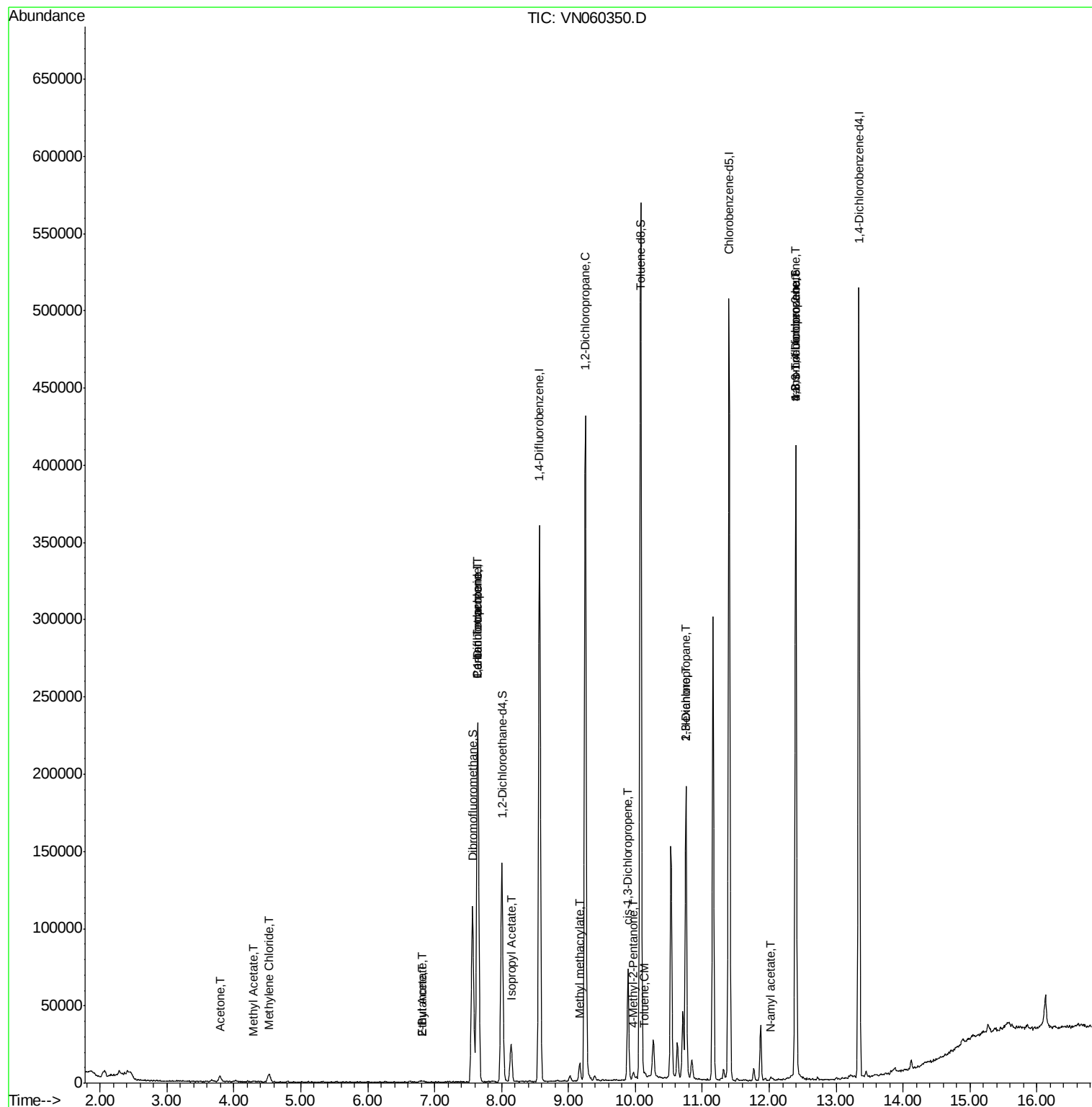
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	7468	9.548	ug/l	99
17) Carbon Disulfide	4.04	76	60	Below Cal	#	75
18) Methyl Acetate	4.30	43	575	0.220	ug/l #	52
20) Methylene Chloride	4.52	84	2335	1.087	ug/l	92
21) trans-1,2-Dichloroethene	5.11	96	102	Below Cal	#	1
25) 2-Butanone	6.82	43	1718	1.360	ug/l #	49
31) Cyclohexane	7.64	56	3953	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	14347	4.845	ug/l #	49
37) Ethyl Acetate	6.82	43	1718	0.613	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18413	6.387	ug/l #	16
43) Isopropyl Acetate	8.14	43	28915	5.891	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	522	0.232	ug/l #	44
48) Methyl methacrylate	9.16	41	1982	0.885	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3178	1.142	ug/l	89
52) Toluene	10.14	92	1564	0.289	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	12563	3.327	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	1859	0.524	ug/l #	42
59) 2-Hexanone	10.75	43	28345	13.871	ug/l #	53
74) N-amyl acetate	12.02	43	2361	0.544	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	72005	24.487	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	72005	67.596	ug/l #	8
95) Naphthalene	15.13	128	373	Below Cal	#	69

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN030420\
Data File : VN060350.D
Acq On : 4 Mar 2020 15:49
Operator : JC/MD
Sample : L1748-04
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
AU-06-030320

Quant Time: Mar 05 05:11:18 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: VN060350.D

Acq: 4 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

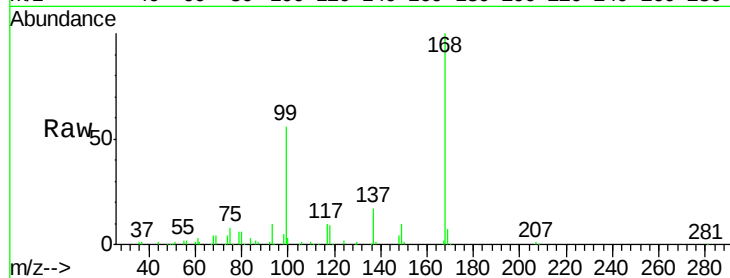
AU-06-030320

Tgt Ion:168 Resp: 188777

Ion Ratio Lower Upper

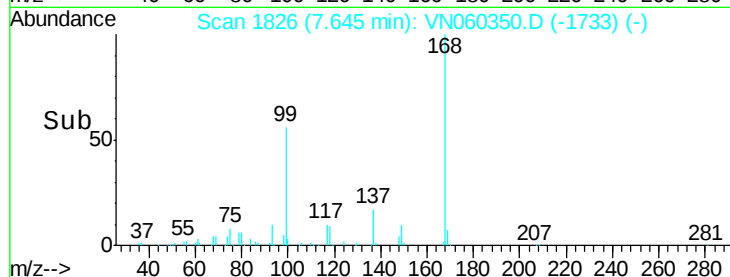
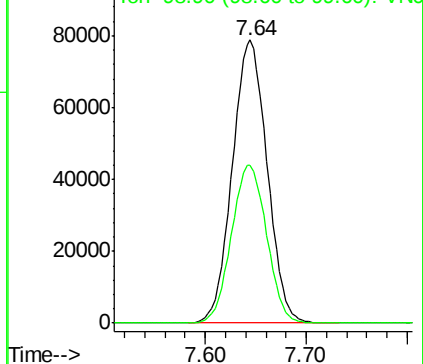
168 100

99 55.8 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 9.548 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060350.D

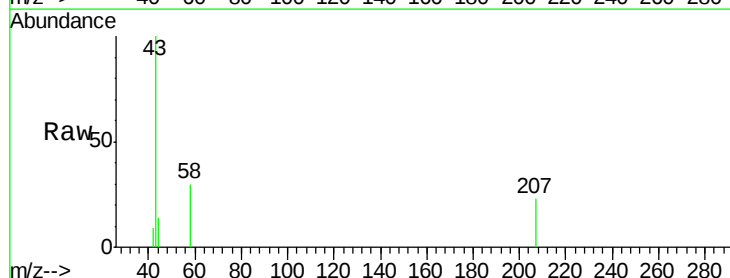
Acq: 4 Mar 2020 15:49

Tgt Ion: 43 Resp: 7468

Ion Ratio Lower Upper

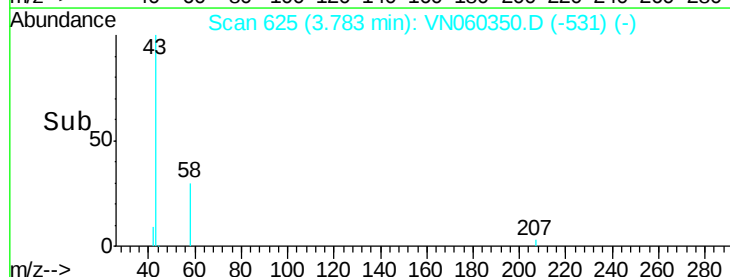
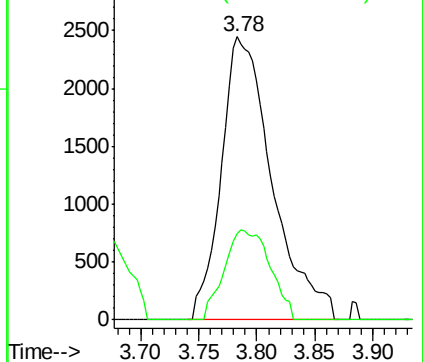
43 100

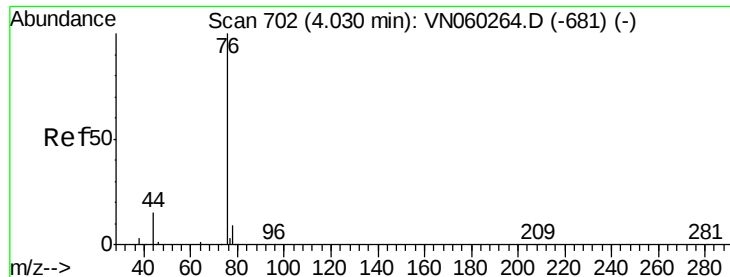
58 30.4 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

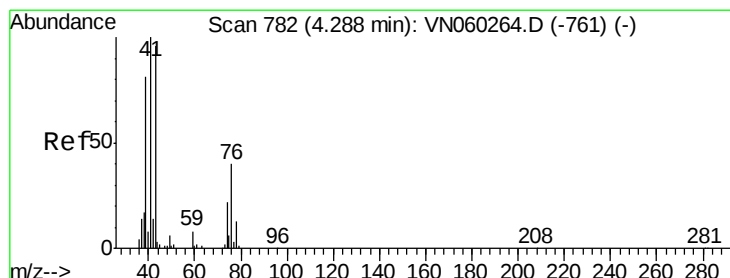
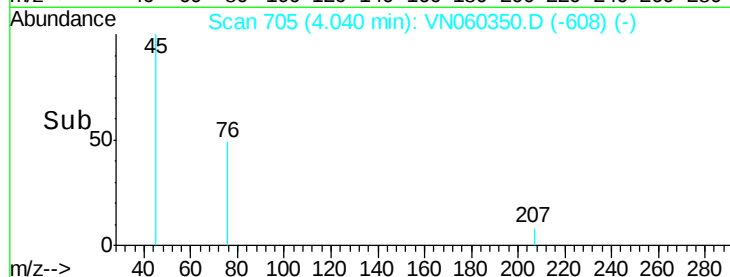
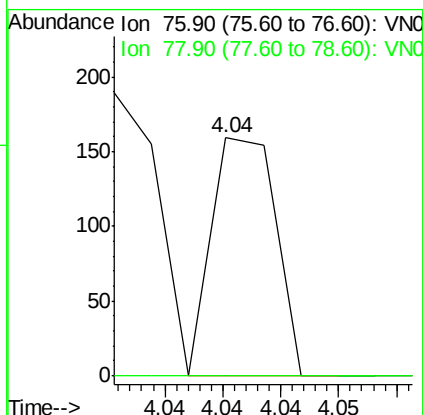
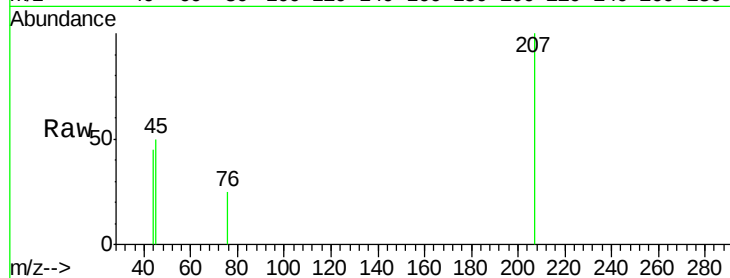




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.04 min Scan# 705
Delta R.T. 0.01 min
Lab File: VN060350.D
Acq: 4 Mar 2020 15:49

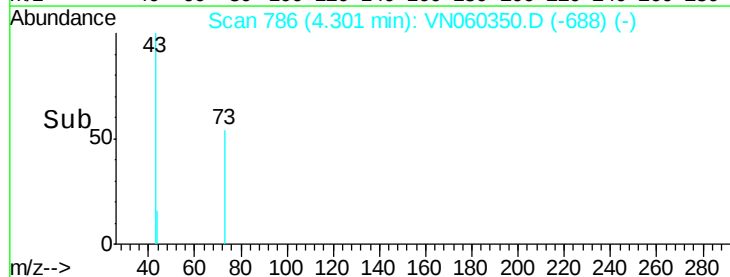
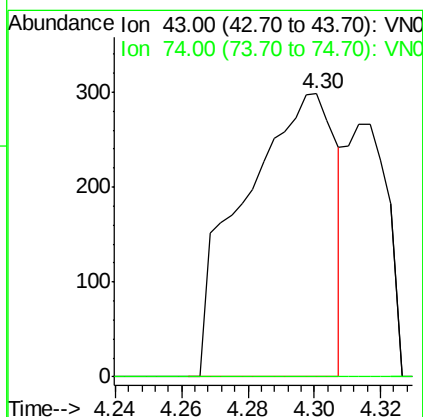
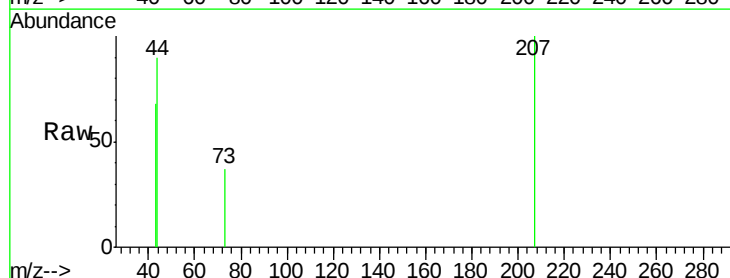
Instrument :
MSVOA_N
ClientSampleId :
AU-06-030320

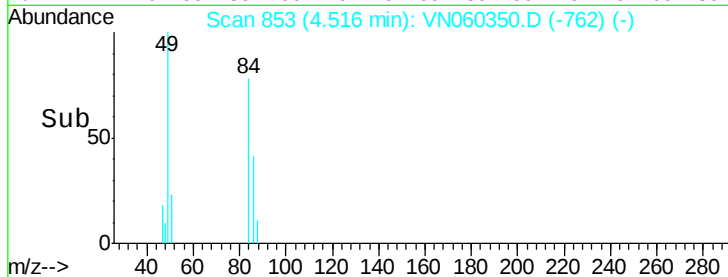
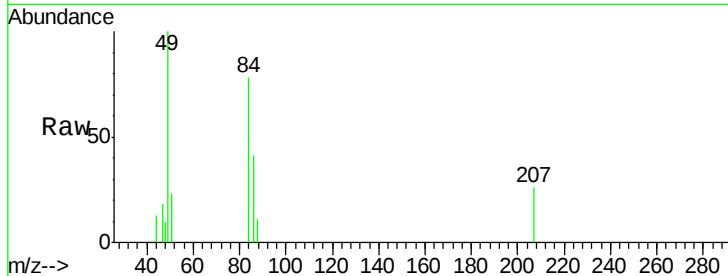
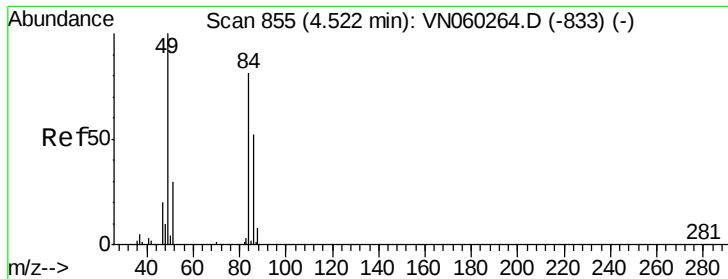
Tgt Ion: 76 Resp: 60
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.220 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060350.D
Acq: 4 Mar 2020 15:49

Tgt Ion: 43 Resp: 575
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#

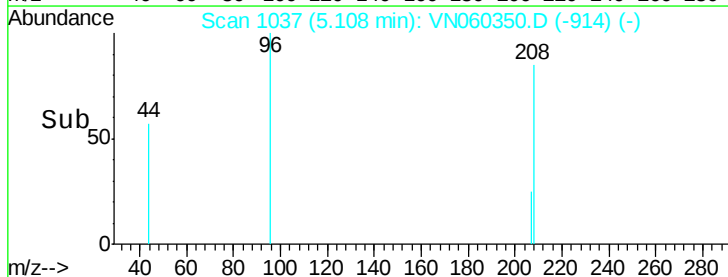
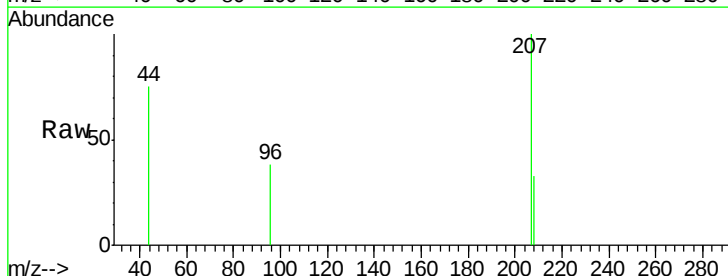
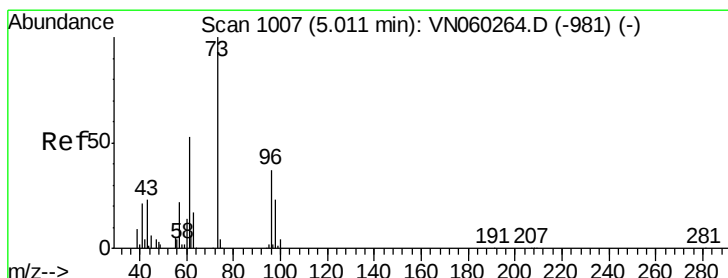
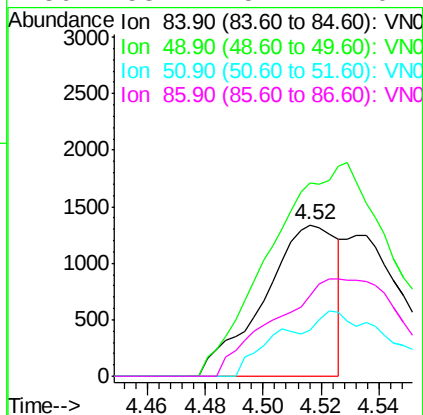




#20
Methylene Chloride
Concen: 1.087 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN060350.D
Acq: 4 Mar 2020 15:49

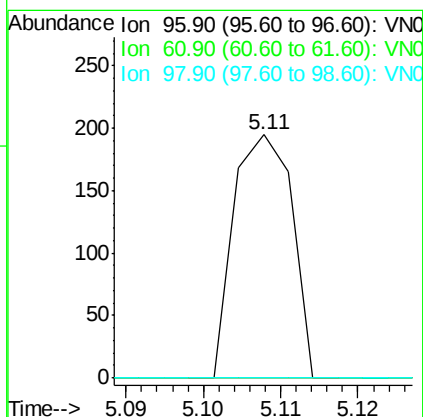
Instrument :
MSVOA_N
ClientSampled :
AU-06-030320

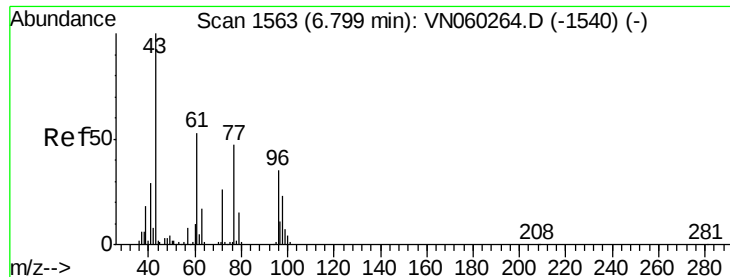
Tgt Ion:	84	Resp:	2335
Ion	Ratio	Lower	Upper
84	100		
49	128.2	99.3	148.9
51	30.1	30.1	45.1
86	53.1	51.1	76.7



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.11 min Scan# 1037
Delta R.T. 0.10 min
Lab File: VN060350.D
Acq: 4 Mar 2020 15:49

Tgt Ion:	96	Resp:	102
Ion	Ratio	Lower	Upper
96	100		
61	0.0	113.8	170.8#
98	0.0	48.8	73.2#





#25

2-Butanone

Concen: 1.360 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.02 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

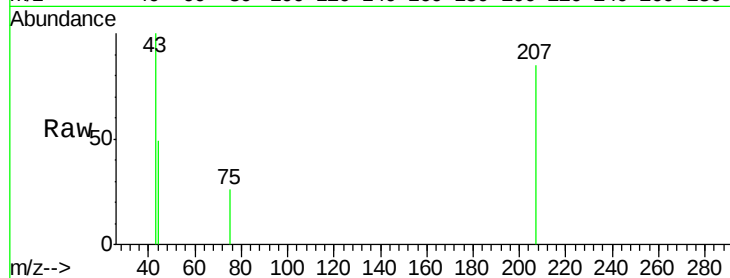
AU-06-030320

Tgt Ion: 43 Resp: 1718

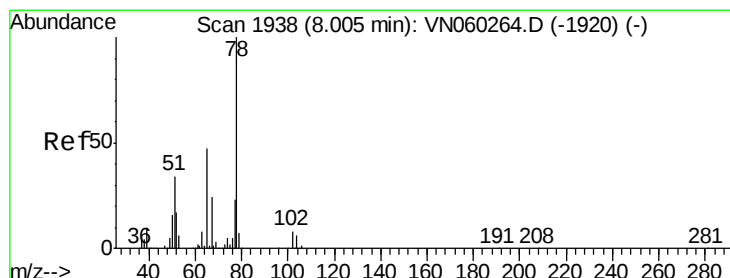
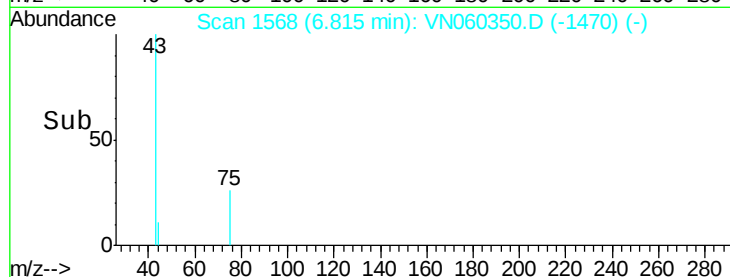
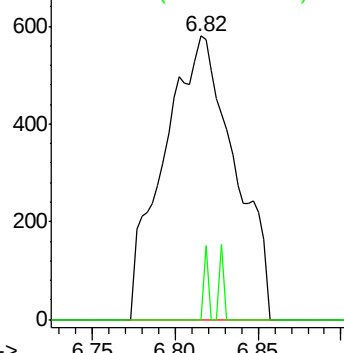
Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1540) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.622 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060350.D

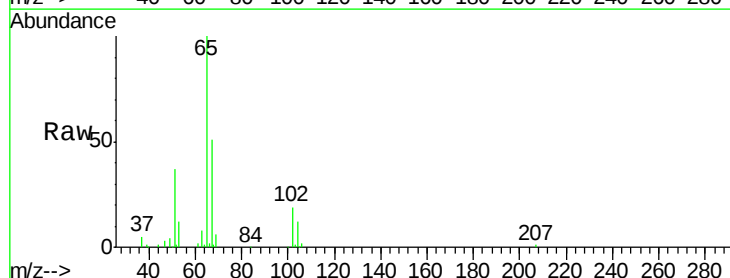
Acq: 4 Mar 2020 15:49

Tgt Ion: 65 Resp: 122609

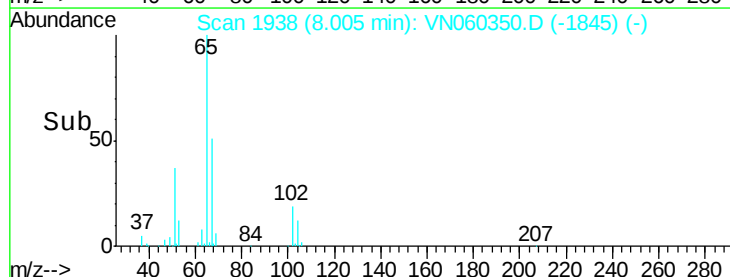
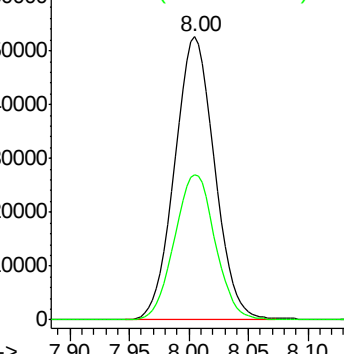
Ion Ratio Lower Upper

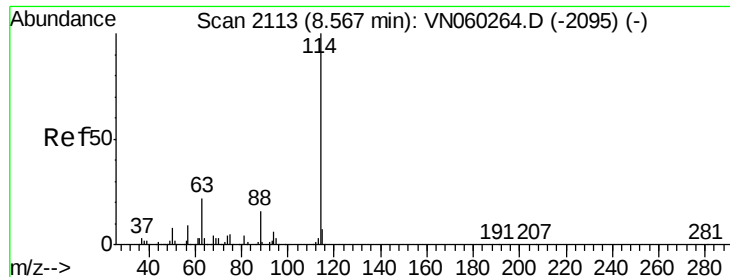
65 100

67 52.2 0.0 103.8



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

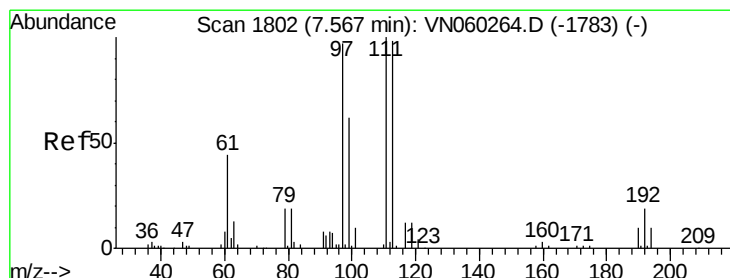
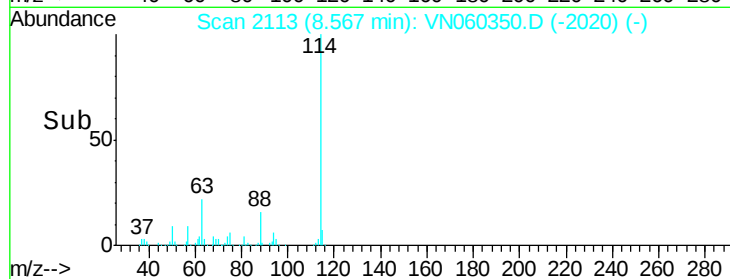
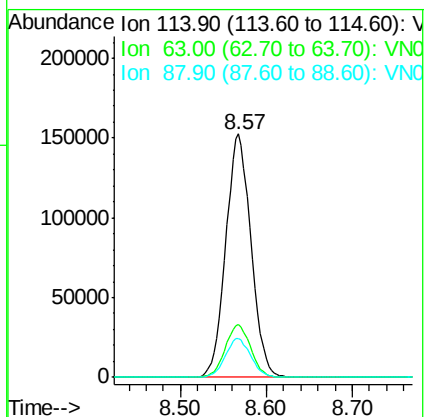
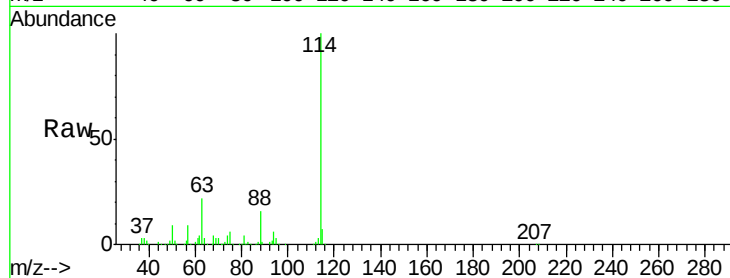




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060350.D
Acq: 4 Mar 2020 15:49

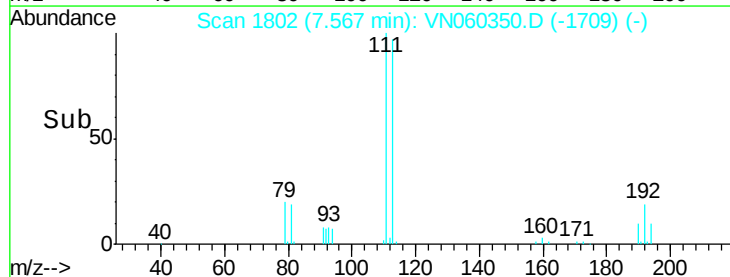
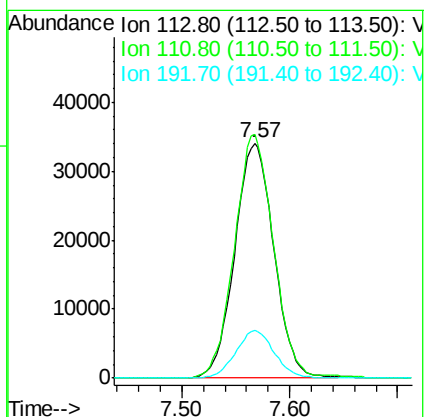
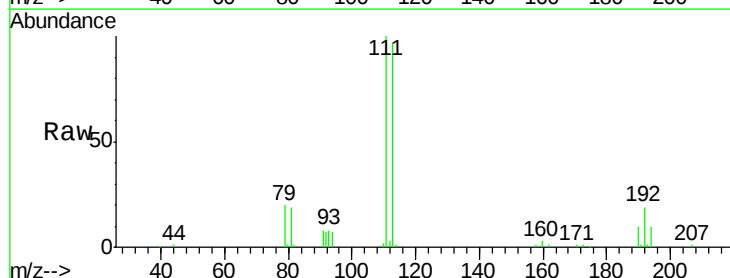
Instrument :
MSVOA_N
ClientSampleId :
AU-06-030320

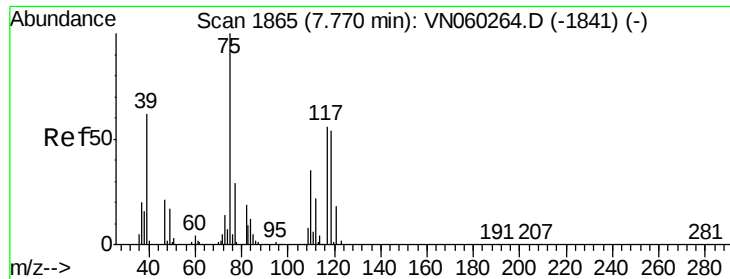
Tgt Ion:114 Resp: 310710
Ion Ratio Lower Upper
114 100
63 21.6 0.0 43.2
88 16.2 0.0 31.6



#35
Dibromofluoromethane
Concen: 59.678 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN060350.D
Acq: 4 Mar 2020 15:49

Tgt Ion:113 Resp: 86068
Ion Ratio Lower Upper
113 100
111 103.8 82.4 123.6
192 19.9 16.2 24.2





#36

1,1-Dichloropropene

Concen: 4.845 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

AU-06-030320

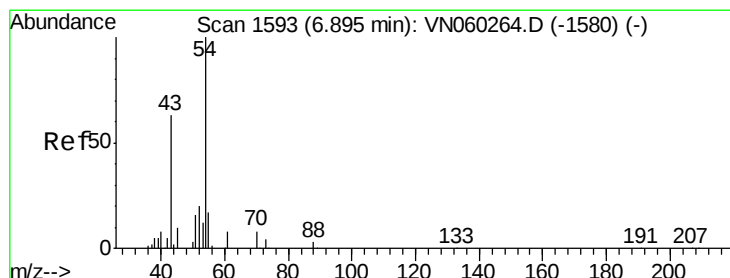
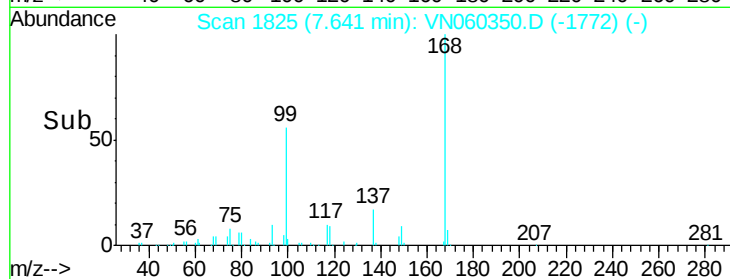
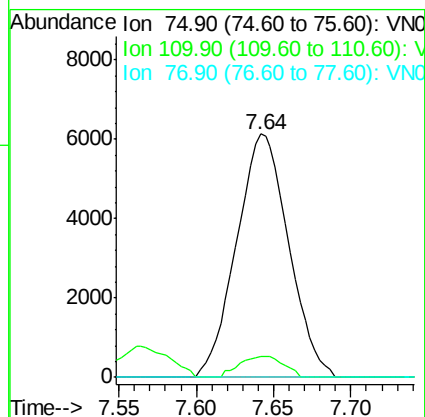
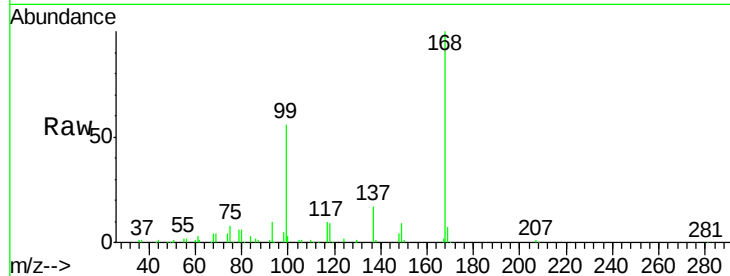
Tgt Ion: 75 Resp: 14347

Ion Ratio Lower Upper

75 100

110 7.3 17.3 52.0#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 0.613 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. -0.08 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

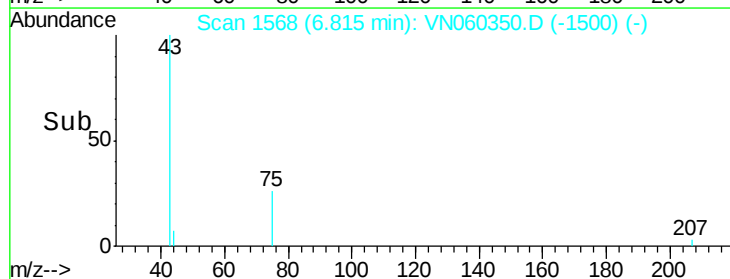
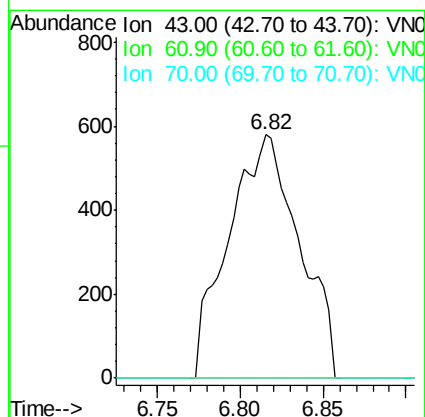
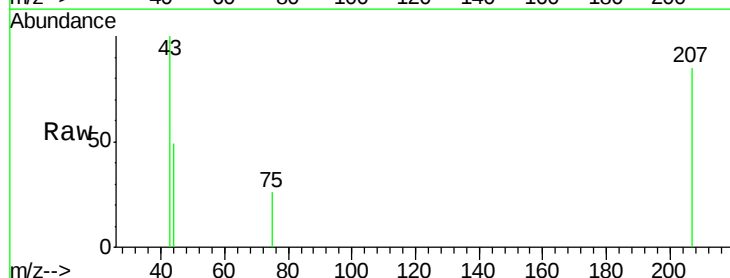
Tgt Ion: 43 Resp: 1718

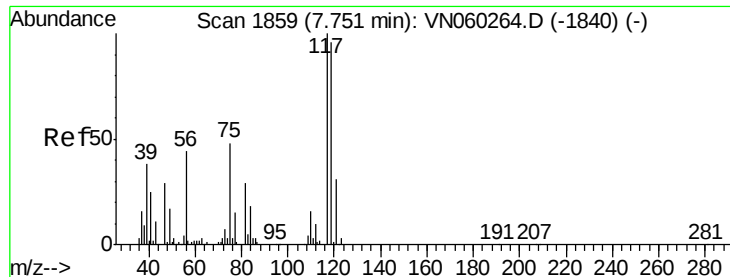
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 6.387 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampled :

AU-06-030320

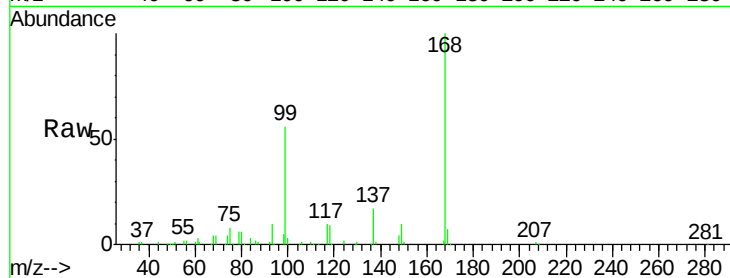
Tgt Ion:117 Resp: 18413

Ion Ratio Lower Upper

117 100

119 4.6 76.7 115.1#

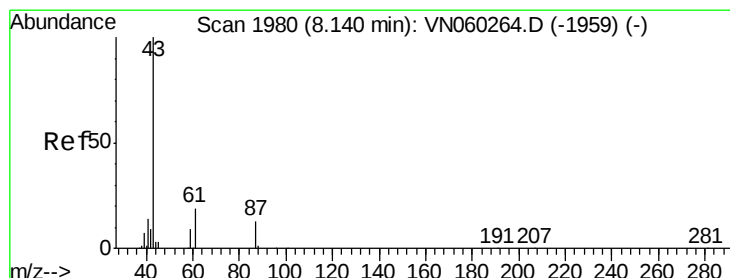
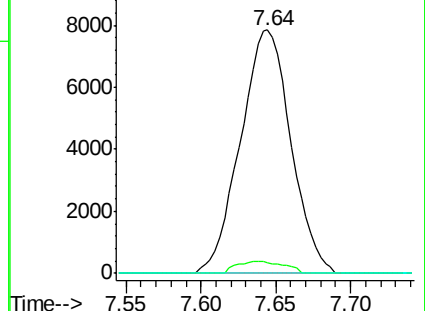
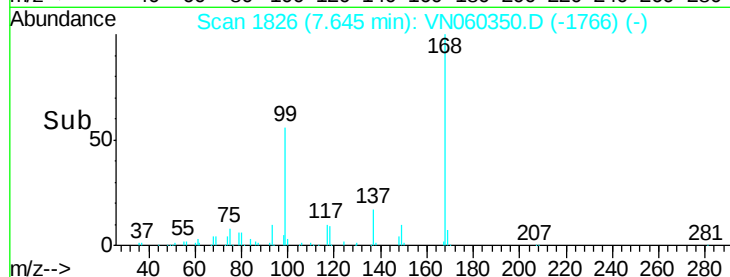
121 0.0 24.5 36.7#



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: 5.891 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

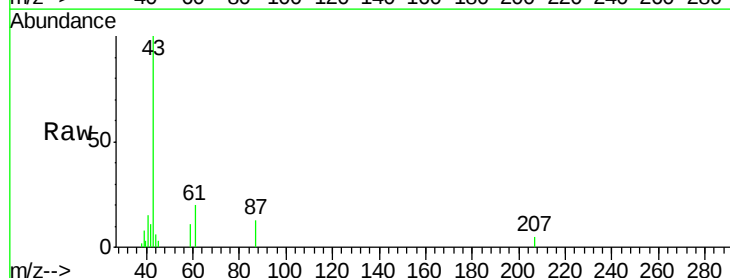
Tgt Ion: 43 Resp: 28915

Ion Ratio Lower Upper

43 100

61 19.0 20.9 31.3#

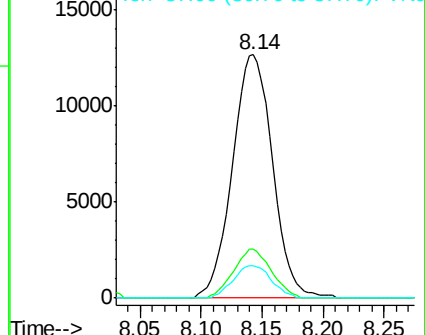
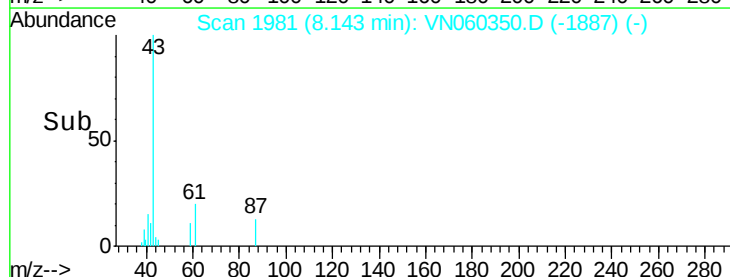
87 12.6 10.6 16.0

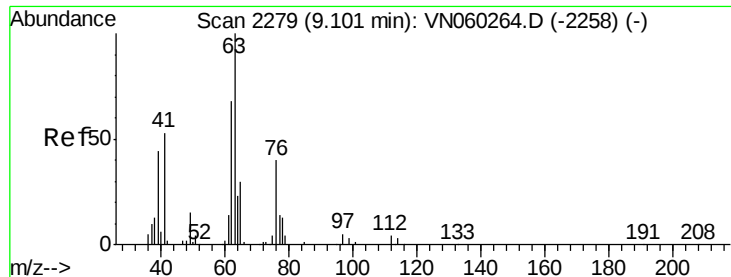


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.232 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

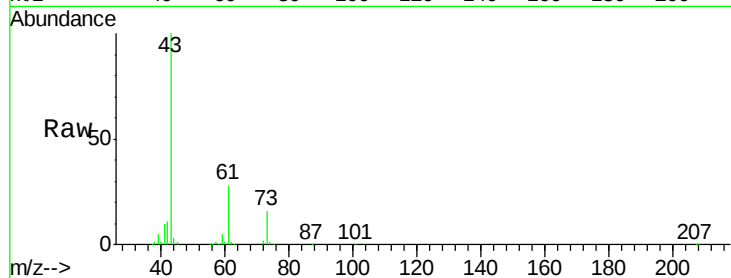
AU-06-030320

Tgt Ion: 63 Resp: 522

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

9.25

400

300

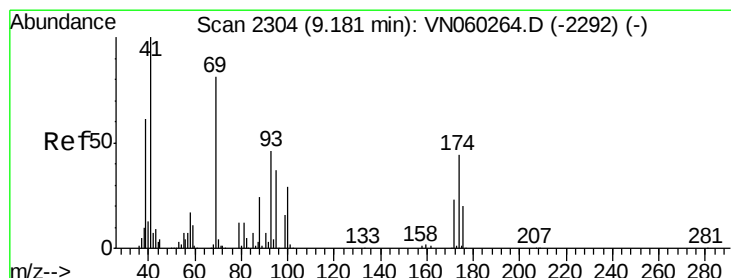
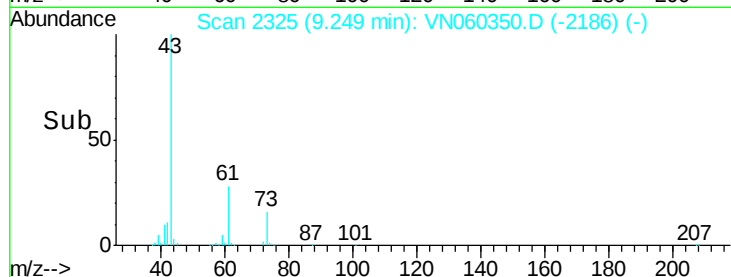
200

100

0

9.22 9.24 9.26 9.28

Time-->



#48

Methyl methacrylate

Concen: 0.885 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

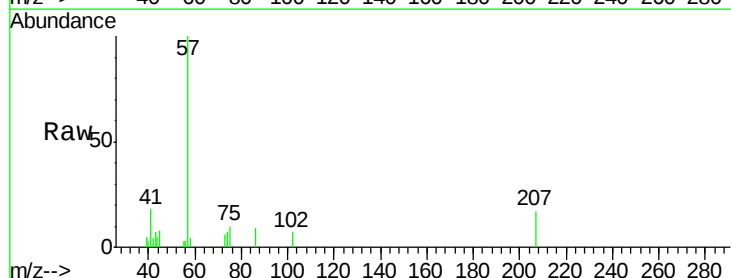
Tgt Ion: 41 Resp: 1982

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

20000

15000

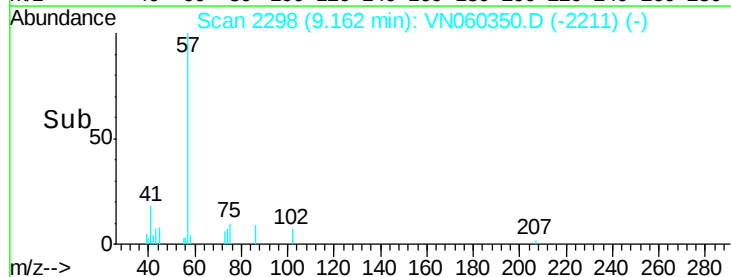
10000

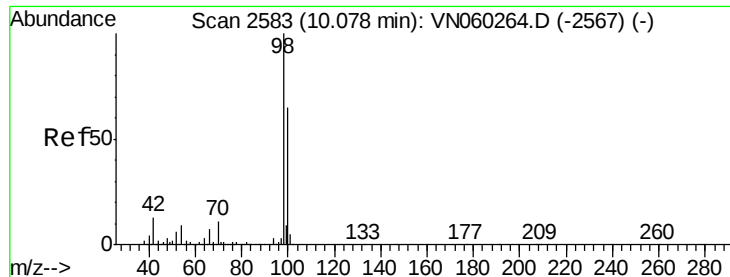
5000

0

9.10 9.15 9.20

Time-->





#50

Toluene-d8

Concen: 52.383 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

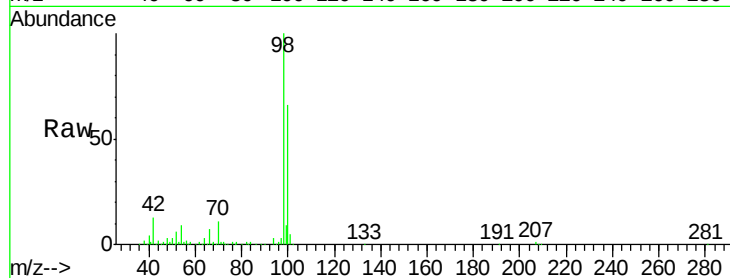
AU-06-030320

Tgt Ion: 98 Resp: 382356

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



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

Ion 100.00 (99.70 to 100.70): VN060264.D (-2567) (-)

10.08

250000

200000

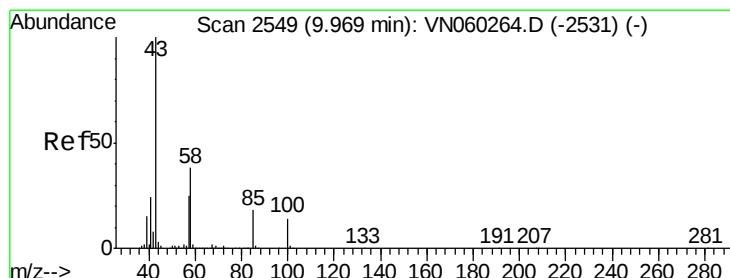
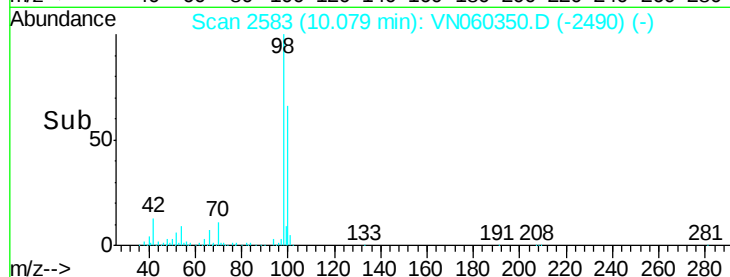
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.142 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060350.D

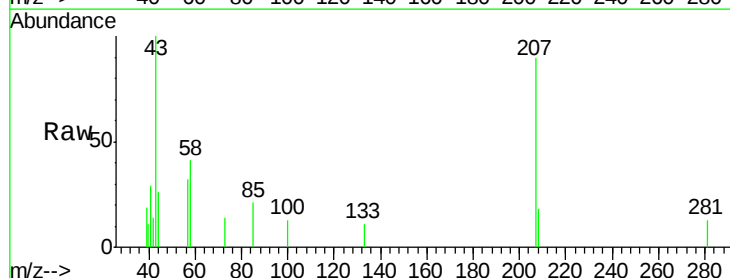
Acq: 4 Mar 2020 15:49

Tgt Ion: 43 Resp: 3178

Ion Ratio Lower Upper

43 100

58 31.7 30.9 46.3



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

Ion 58.00 (57.70 to 58.70): VN060264.D (-2531) (-)

10000

8000

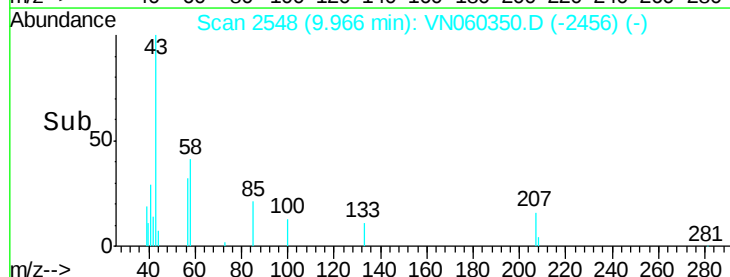
6000

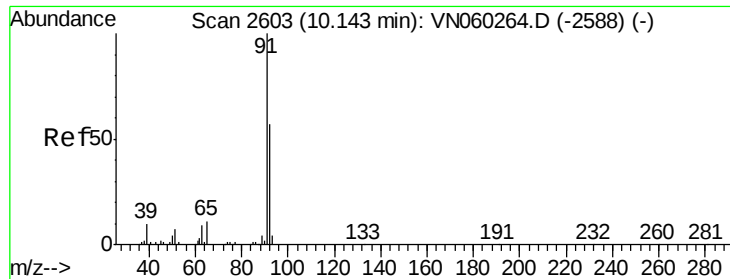
4000

2000

0

Time-->





#52

Toluene

Concen: 0.289 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampled :

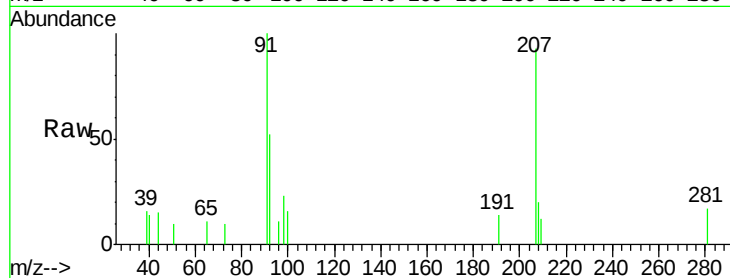
AU-06-030320

Tgt Ion: 92 Resp: 1564

Ion Ratio Lower Upper

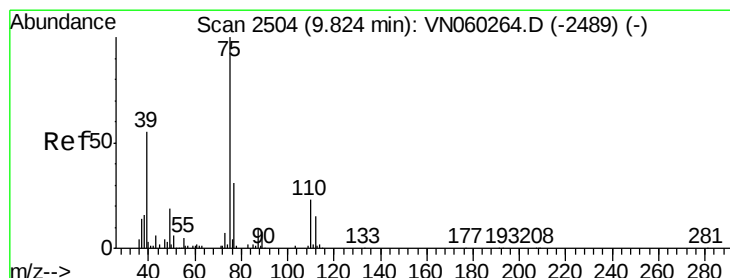
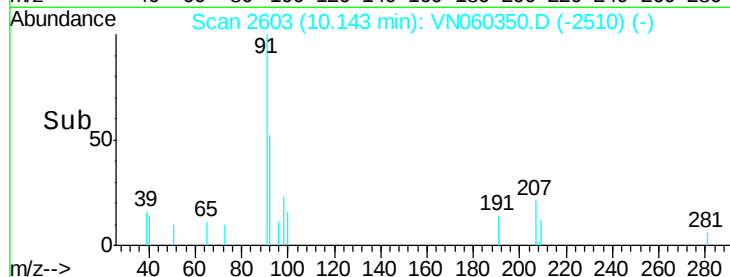
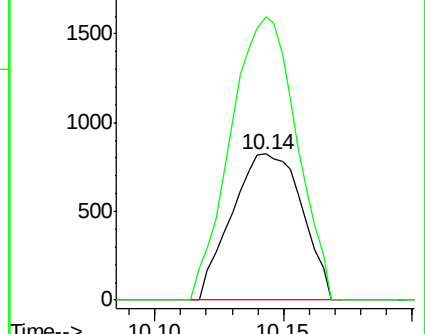
92 100

91 181.5 138.1 207.1



Abundance Ion 92.00 (91.70 to 92.70): VN060264.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN060264.D (-2588) (-)



#54

cis-1,3-Dichloropropene

Concen: 3.327 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

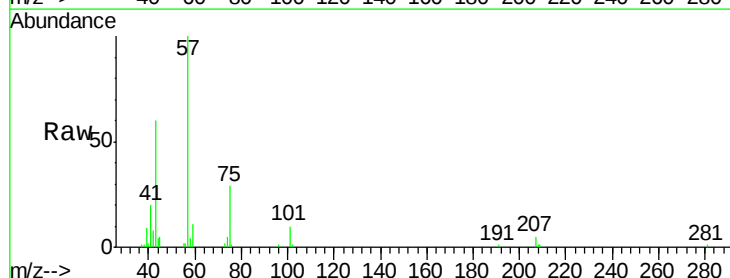
Tgt Ion: 75 Resp: 12563

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

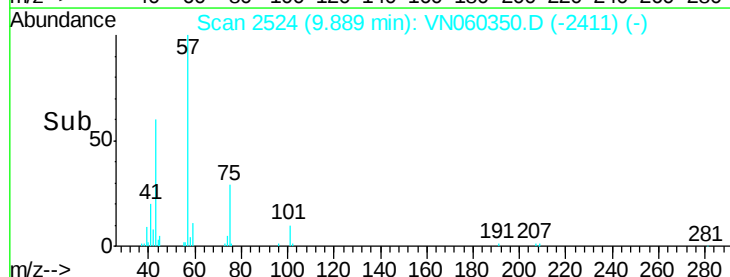
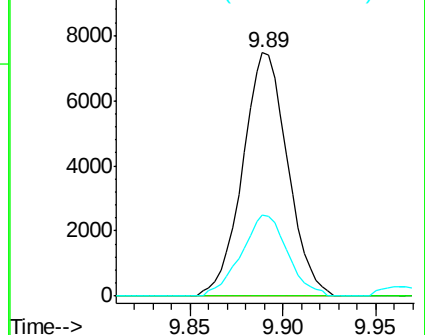
39 33.3 43.8 65.8#

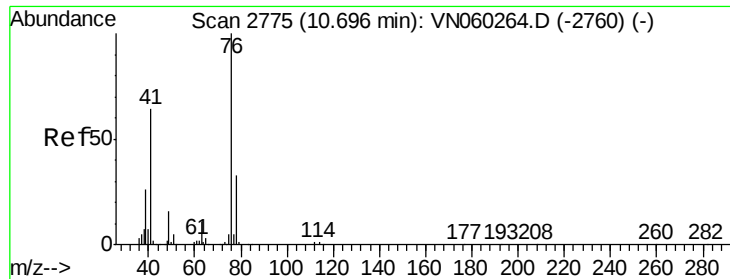


Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060264.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060264.D (-2489) (-)

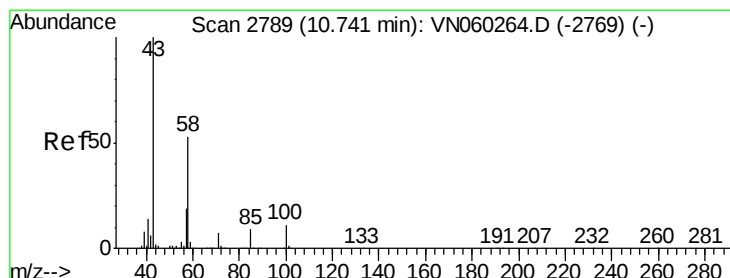
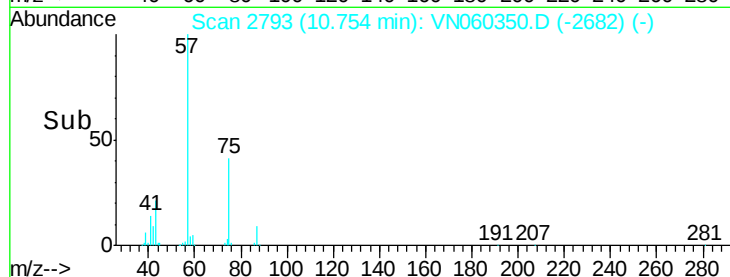
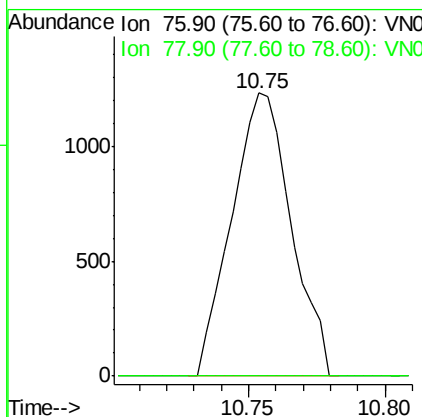
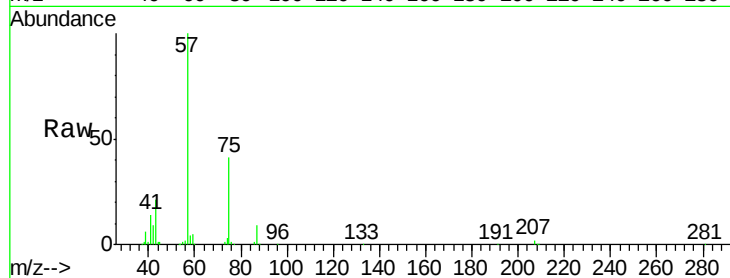




#57
 1,3-Dichloropropane
 Concen: 0.524 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060350.D
 Acq: 4 Mar 2020 15:49

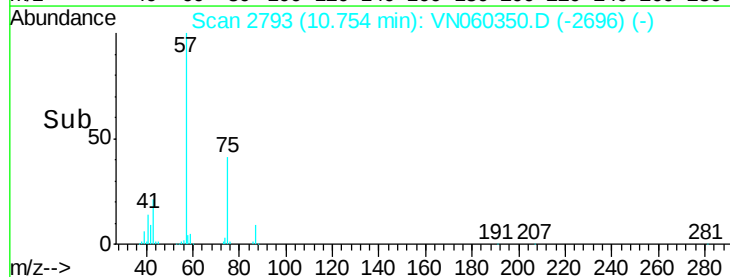
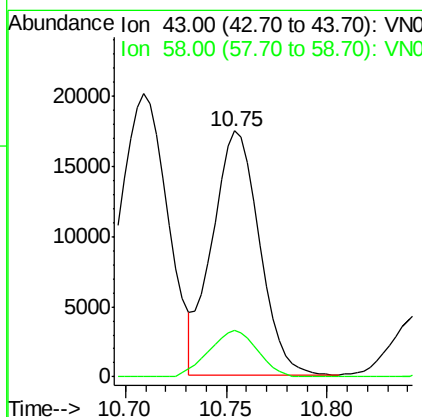
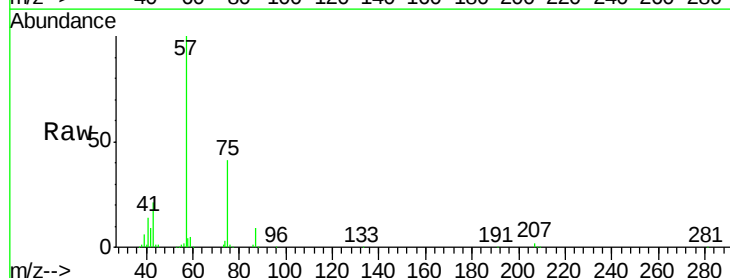
Instrument :
 MSVOA_N
 ClientSampled :
 AU-06-030320

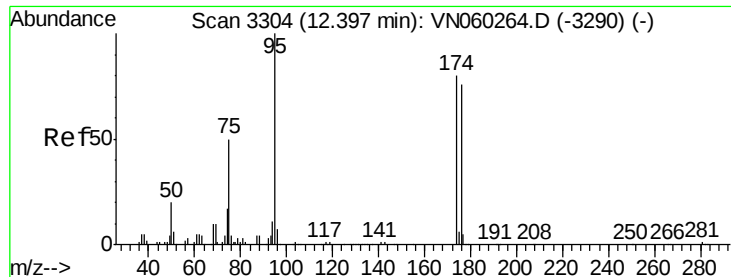
Tgt Ion: 76 Resp: 1859
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#



#59
 2-Hexanone
 Concen: 13.871 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060350.D
 Acq: 4 Mar 2020 15:49

Tgt Ion: 43 Resp: 28345
 Ion Ratio Lower Upper
 43 100
 58 19.5 26.5 79.5#





#62

4-Bromofluorobenzene

Concen: 50.877 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampled :

AU-06-030320

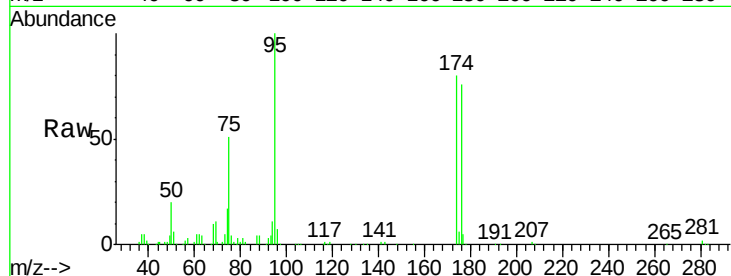
Tgt Ion: 95 Resp: 140775

Ion Ratio Lower Upper

95 100

174 79.0 0.0 159.2

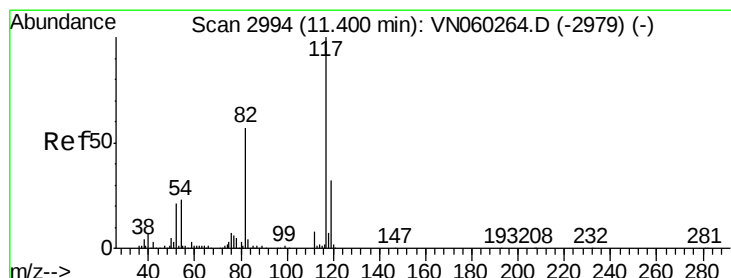
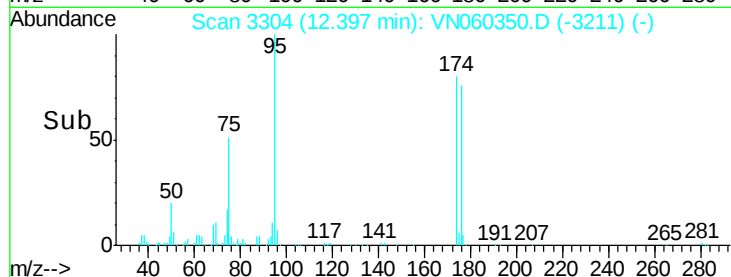
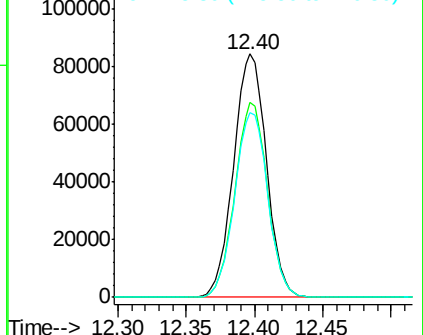
176 76.8 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

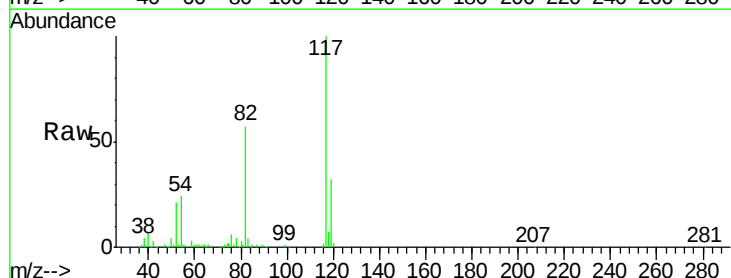
Tgt Ion: 117 Resp: 286957

Ion Ratio Lower Upper

117 100

82 56.9 45.8 68.6

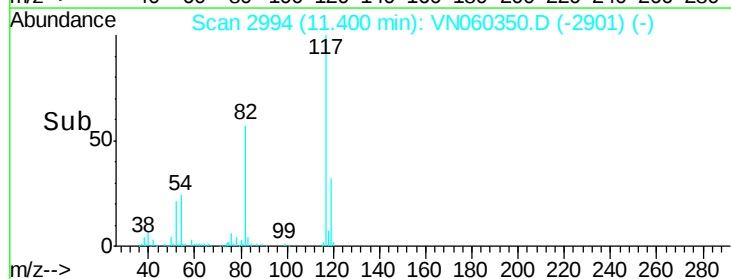
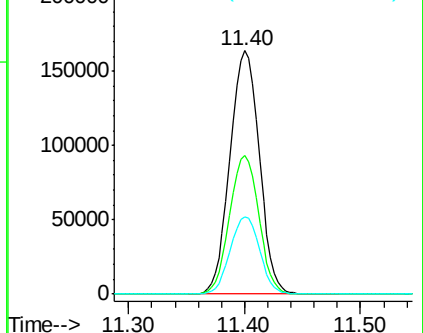
119 31.9 25.8 38.8

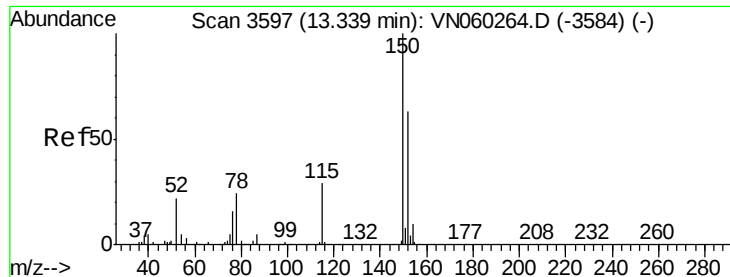


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

AU-06-030320

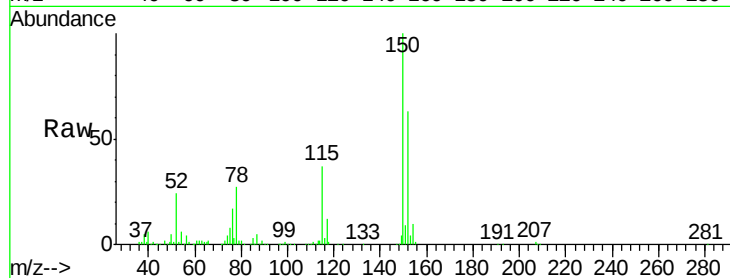
Tgt Ion: 152 Resp: 134026

Ion Ratio Lower Upper

152 100

115 58.9 30.0 90.0

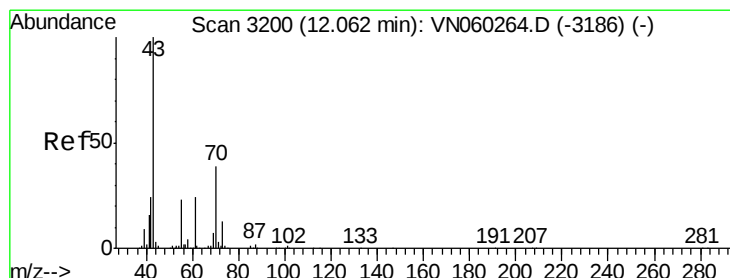
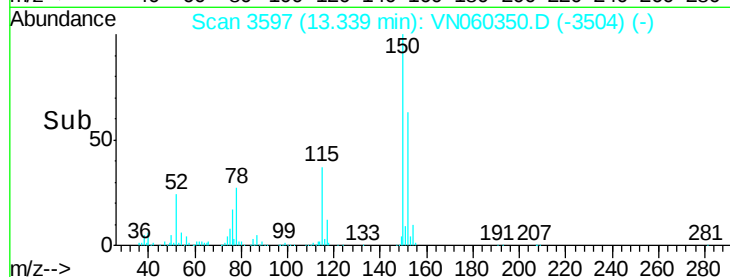
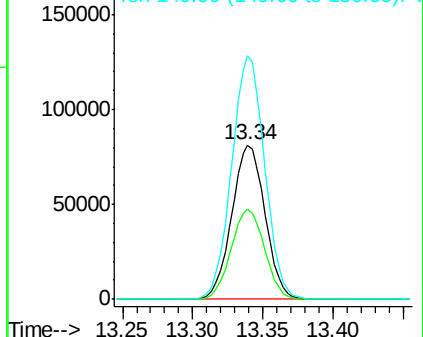
150 156.9 0.0 349.6



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-ethyl acetate

Concen: 0.544 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

Tgt Ion: 43 Resp: 2361

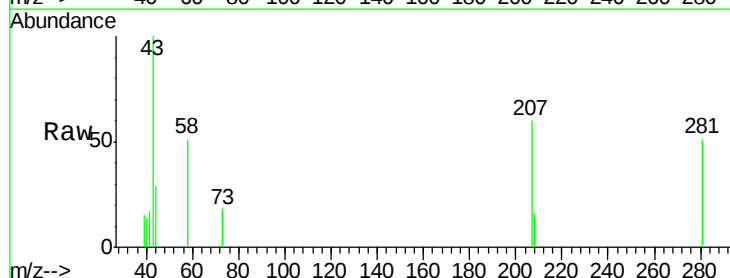
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

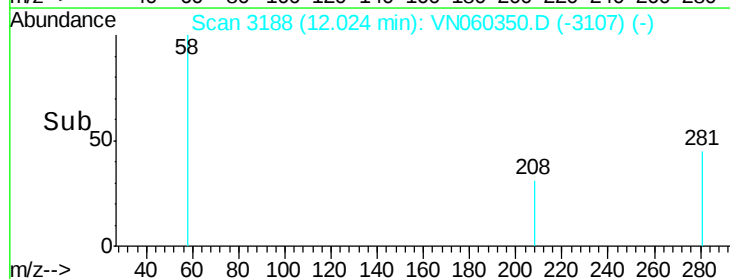
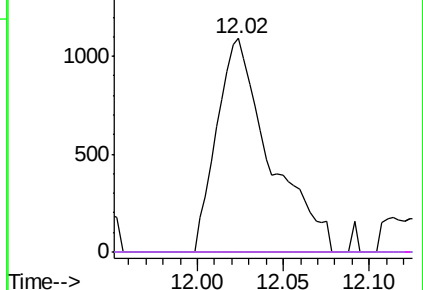


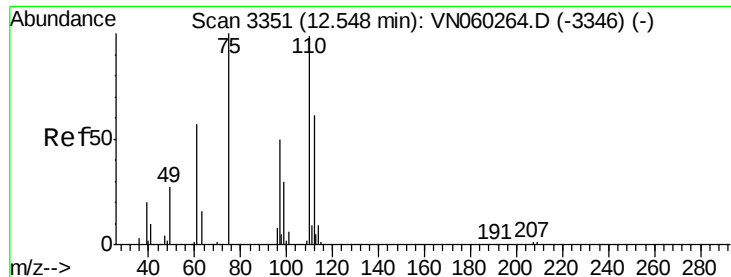
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.487 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

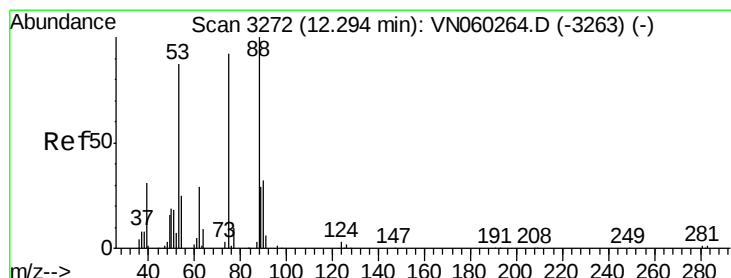
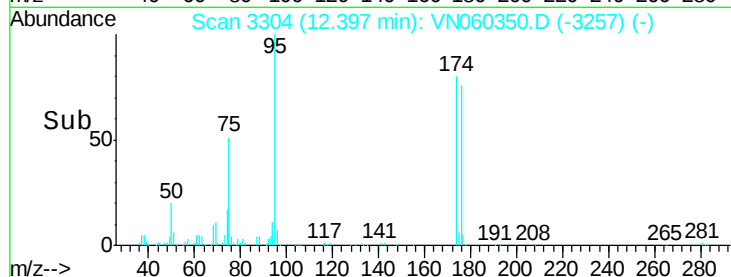
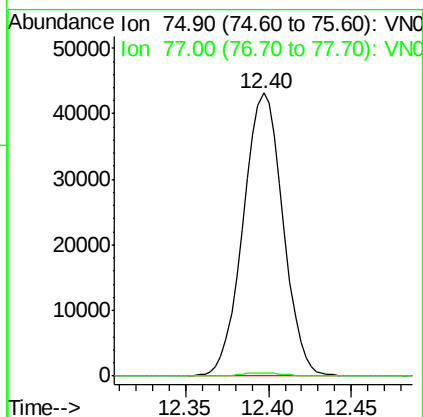
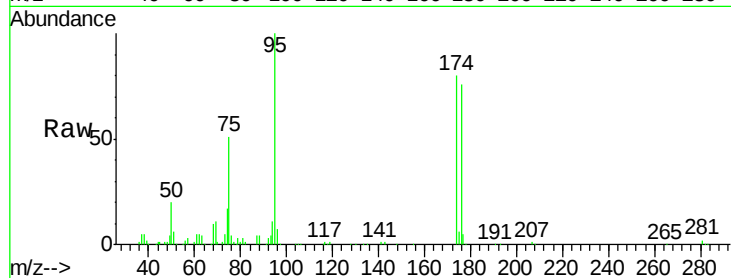
AU-06-030320

Tgt Ion: 75 Resp: 72005

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.596 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060350.D

Acq: 4 Mar 2020 15:49

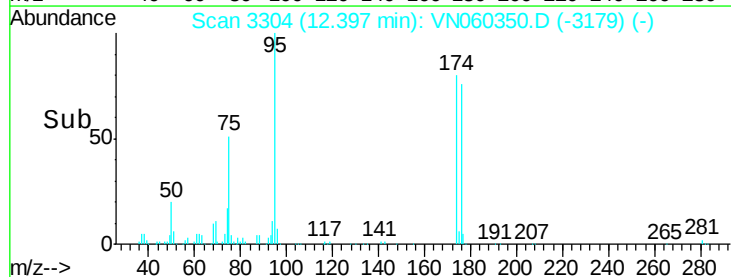
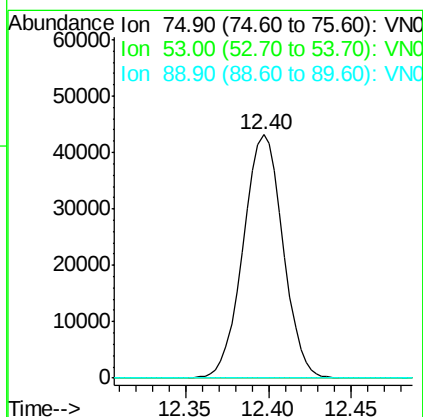
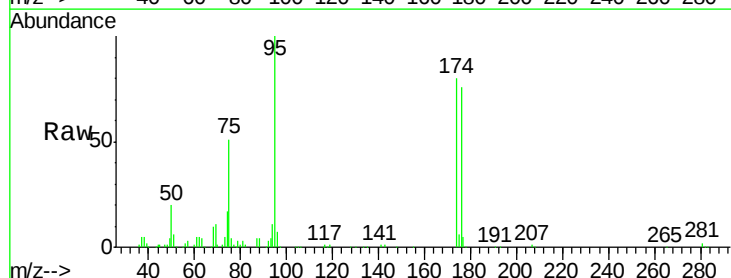
Tgt Ion: 75 Resp: 72005

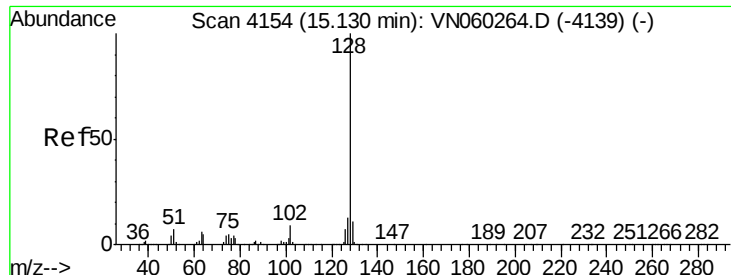
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060350.D

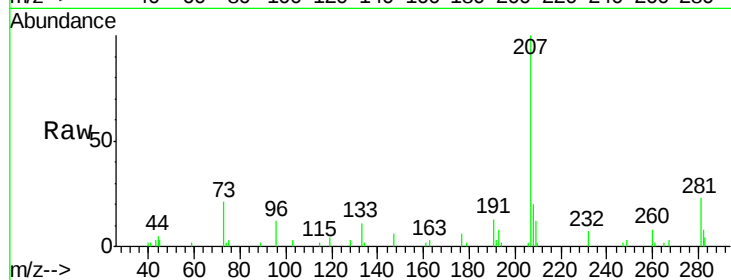
Acq: 4 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

AU-06-030320



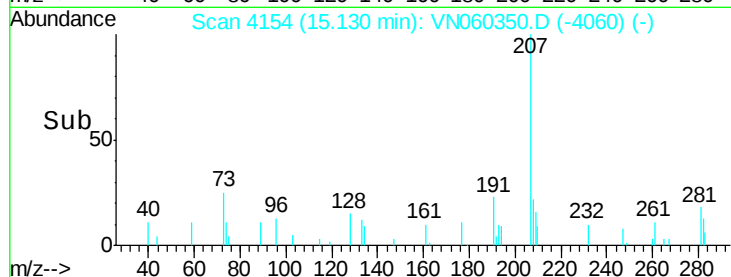
Tgt Ion:128 Resp: 373

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

Time-->

15.10 15.12 15.14 15.16

15.13