

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031920\
 Data File : VN060642.D
 Acq On : 19 Mar 2020 17:17
 Operator : JC/MD
 Sample : L1980-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 20 01:50:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	194311	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	323699	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	305055	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	140791	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	127513	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	
35) Dibromofluoromethane	7.56	113	95868	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
50) Toluene-d8	10.08	98	401820	50.26	ug/l	0.00
Spiked Amount			Recovery	=	100.52%	
62) 4-Bromofluorobenzene	12.40	95	149952	51.18	ug/l	0.00
Spiked Amount			Recovery	=	102.36%	

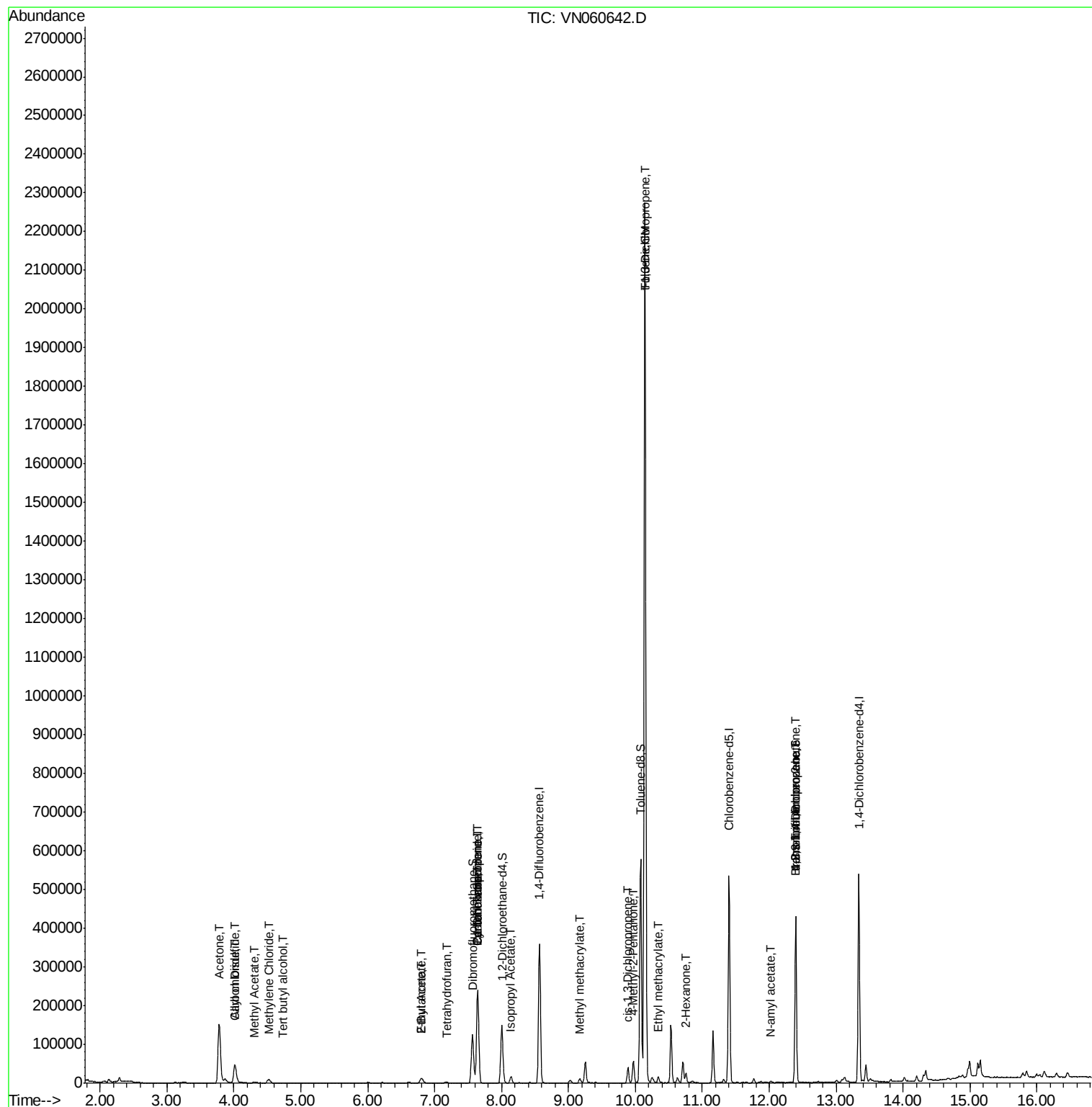
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	139	0.354	ug/l #	72
14) Allyl chloride	4.02	41	6396	1.729	ug/l #	81
16) Acetone	3.78	43	261885	277.167	ug/l	100
17) Carbon Disulfide	4.03	76	4374	0.684	ug/l	99
18) Methyl Acetate	4.30	43	1362	0.512	ug/l #	54
20) Methylene Chloride	4.53	84	7708	3.316	ug/l	99
25) 2-Butanone	6.80	43	21981	14.376	ug/l	97
29) Tetrahydrofuran	7.19	42	392	0.362	ug/l #	35
31) Cyclohexane	7.64	56	4028	0.938	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15650	4.993	ug/l #	49
37) Ethyl Acetate	6.80	43	21981	6.490	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19175	6.826	ug/l #	17
43) Isopropyl Acetate	8.14	43	19105	3.420	ug/l #	89
48) Methyl methacrylate	9.16	41	2826	1.136	ug/l #	27
51) 4-Methyl-2-Pentanone	9.97	43	39816	12.527	ug/l	99
52) Toluene	10.14	92	1004682	175.815	ug/l	100
53) t-1,3-Dichloropropene	10.14	75	11456	3.180	ug/l #	1
54) cis-1,3-Dichloropropene	9.89	75	6794	1.719	ug/l #	63
56) Ethyl methacrylate	10.34	69	2341	0.683	ug/l #	47
59) 2-Hexanone	10.75	43	3312	1.447	ug/l	81
71) Bromoform	12.38	173	98	1.733	ug/l #	29
74) N-amyl acetate	12.02	43	3580	0.733	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	75835	24.962	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	75835	64.111	ug/l #	13

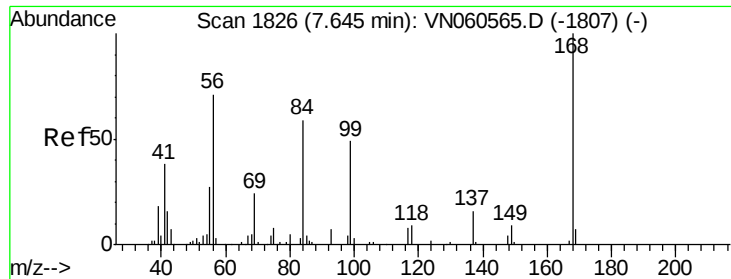
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060642.D

Acq: 19 Mar 2020 17:17

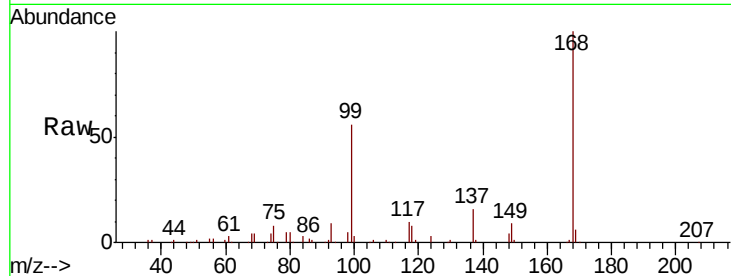
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 194311

Ion Ratio Lower Upper

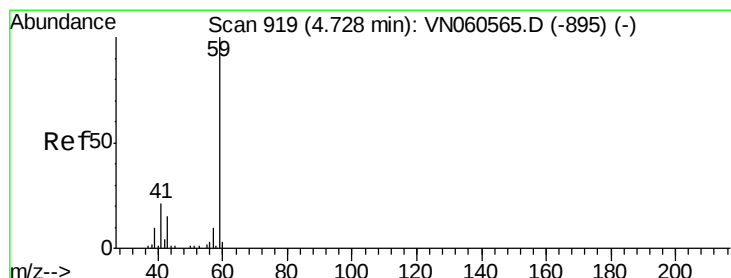
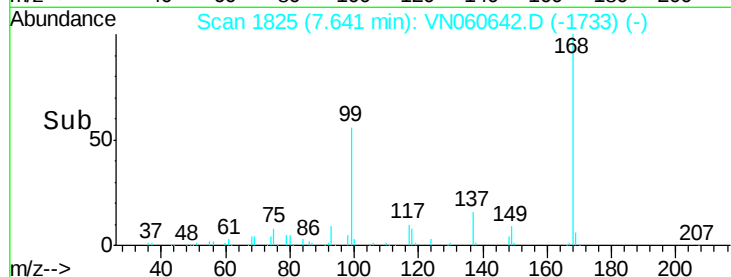
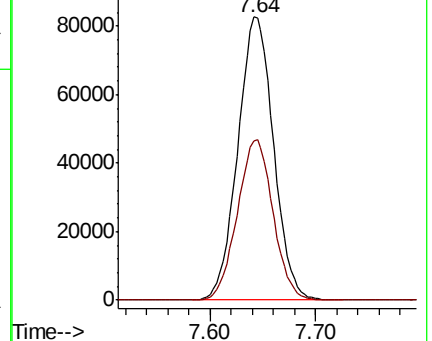
168 100

99 56.4 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.354 ug/l

RT: 4.74 min Scan# 922

Delta R.T. 0.01 min

Lab File: VN060642.D

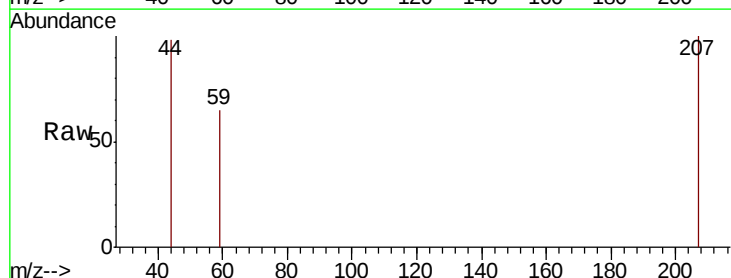
Acq: 19 Mar 2020 17:17

Tgt Ion: 59 Resp: 139

Ion Ratio Lower Upper

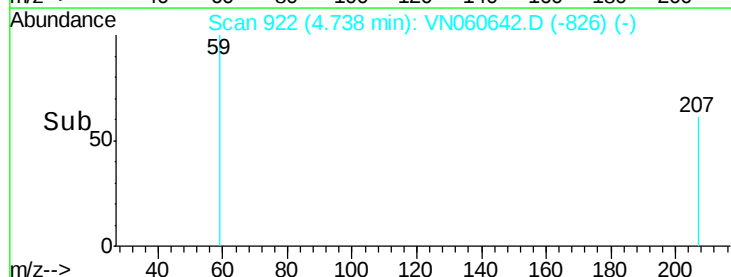
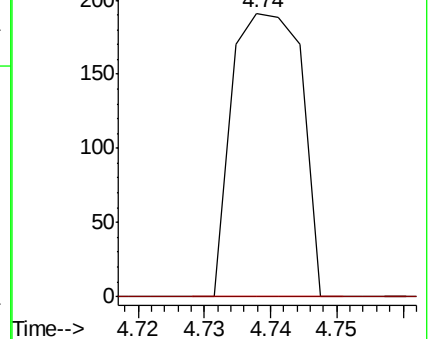
59 100

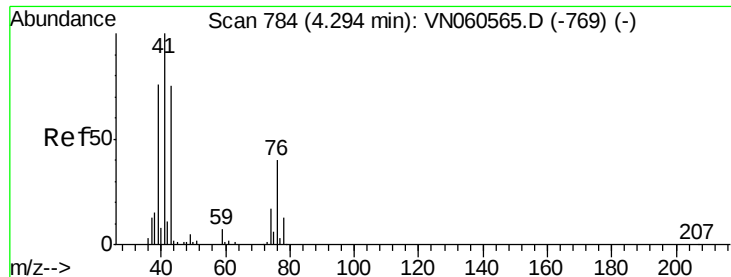
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

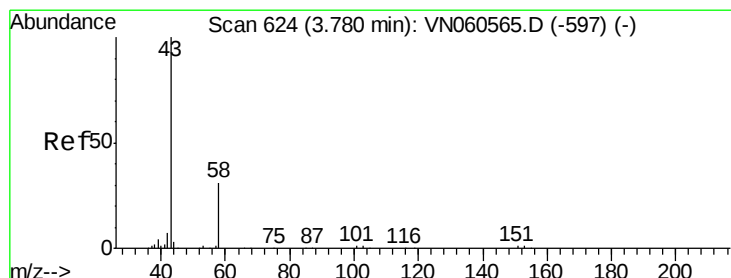
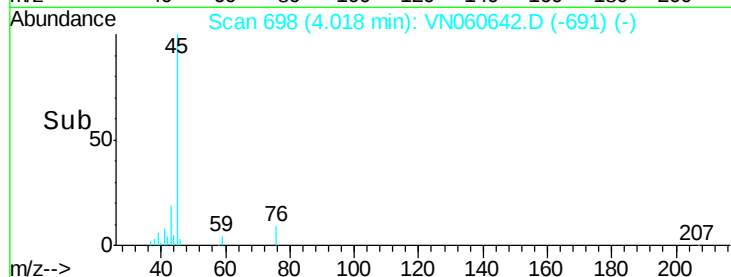
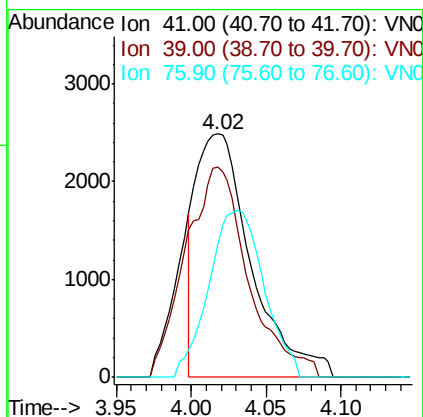
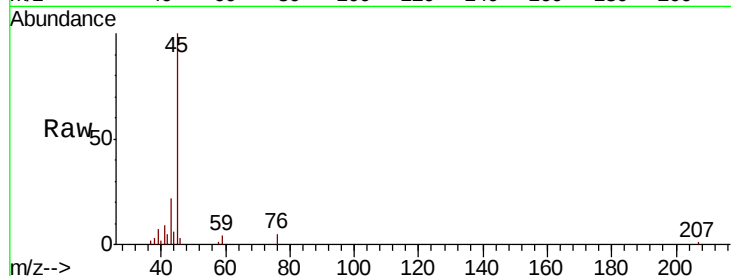




#14
Allv1 chloride
Concen: 1.729 ug/l
RT: 4.02 min Scan# 698
Delta R.T. -0.28 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

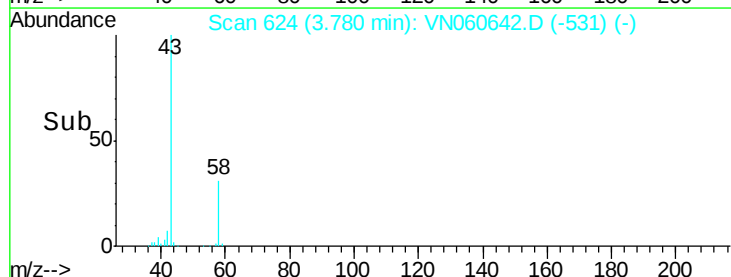
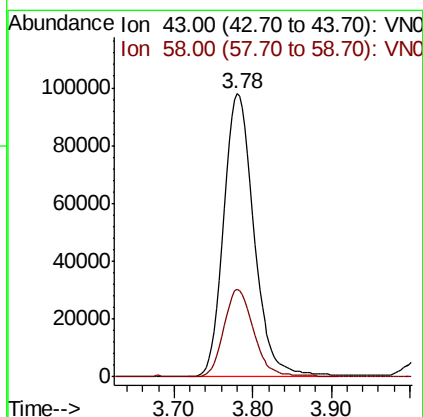
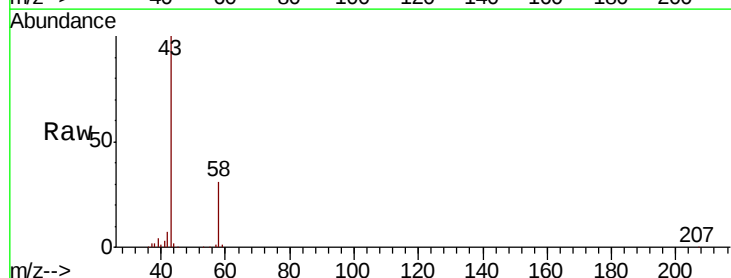
Instrument :
MSVOA_N
ClientSampled :

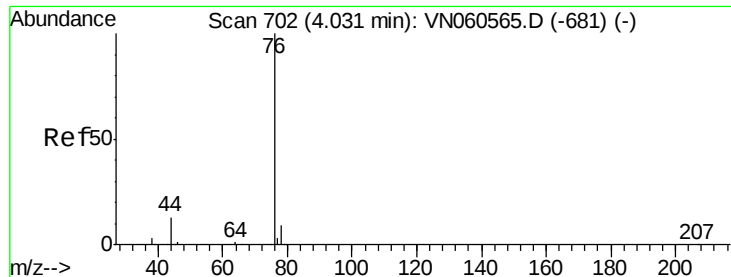
Tot Ion: 41 Resp: 6396
Ion Ratio Lower Upper
41 100
39 69.8 57.8 86.8
76 66.5 28.6 43.0#



#16
Acetone
Concen: 277.167 ug/l
RT: 3.78 min Scan# 624
Delta R.T. -0.00 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

Tgt Ion: 43 Resp: 261885
Ion Ratio Lower Upper
43 100
58 31.2 25.1 37.7

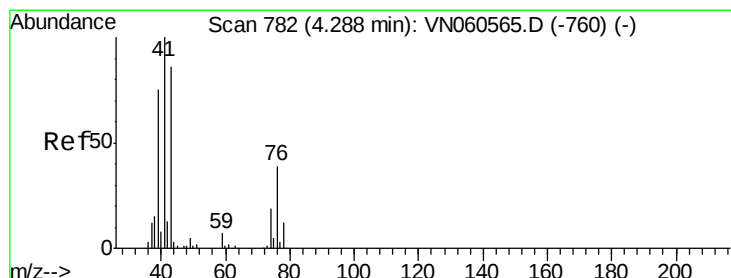
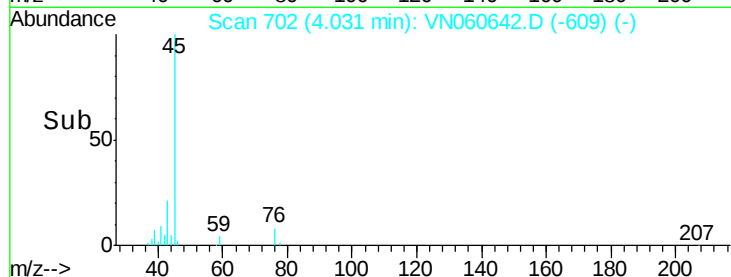
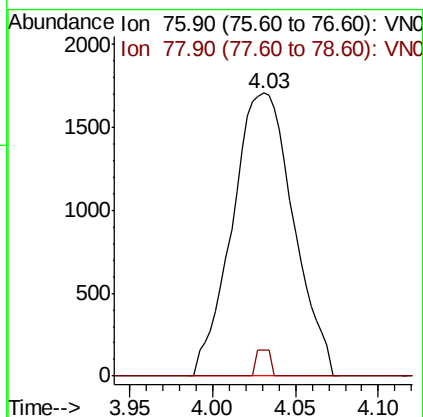
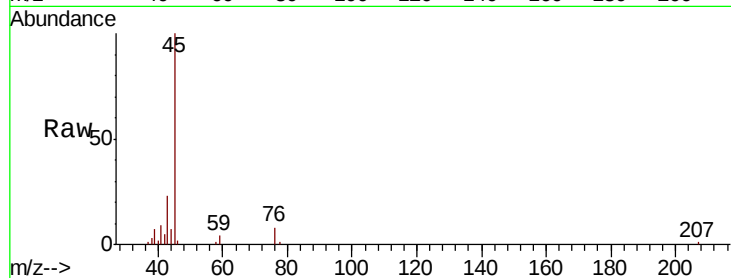




#17
Carbon Disulfide
Concen: 0.684 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.00 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

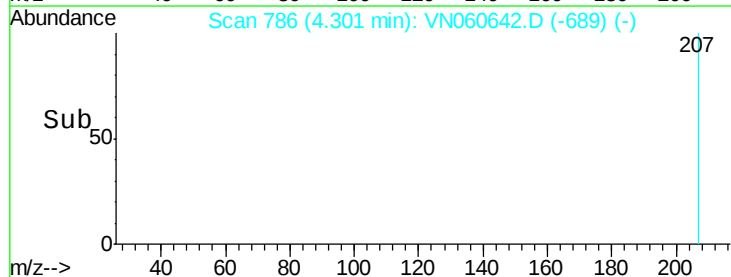
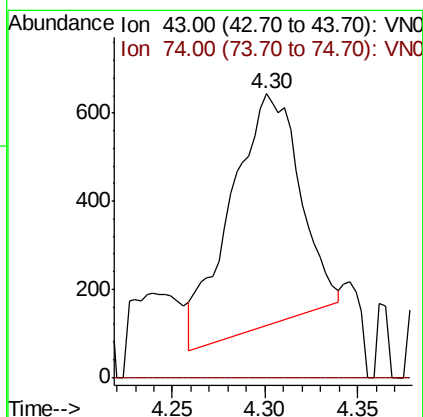
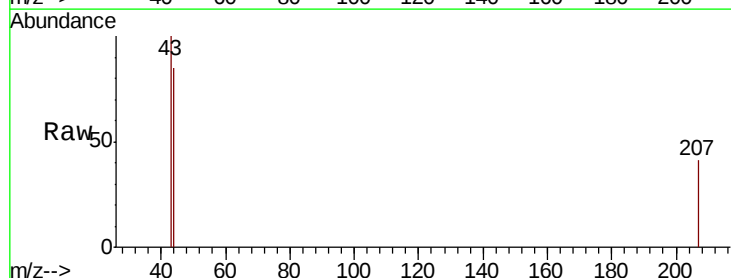
Instrument :
MSVOA_N
ClientSampleId :

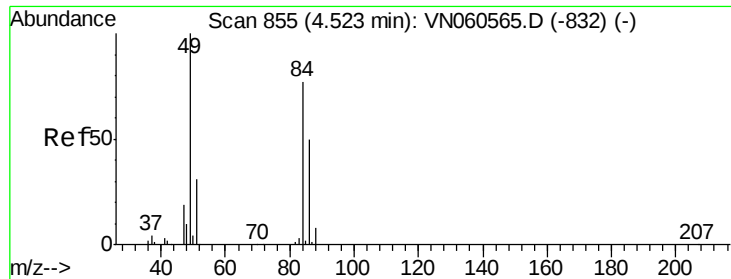
Tot Ion: 76 Resp: 4374
Ion Ratio Lower Upper
76 100
78 9.3 7.2 10.8



#18
Methyl Acetate
Concen: 0.512 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

Tgt Ion: 43 Resp: 1362
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#

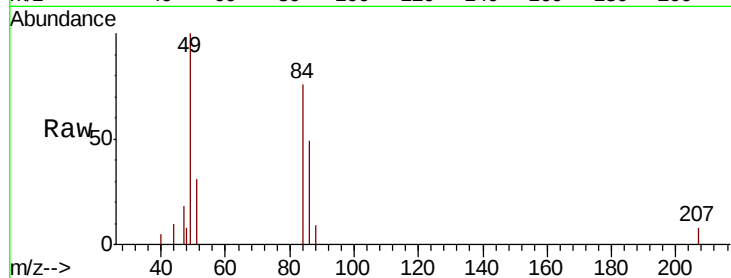




#20
Methvlene Chloride
Concen: 3.316 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	7708
Ion	Ratio	Lower	Upper
84	100		
49	130.9	103.3	154.9
51	40.1	31.6	47.4
86	64.1	52.0	78.0

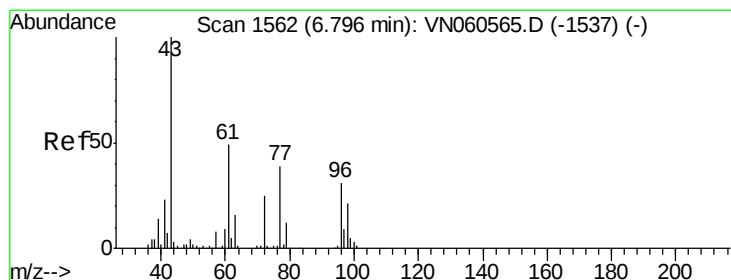
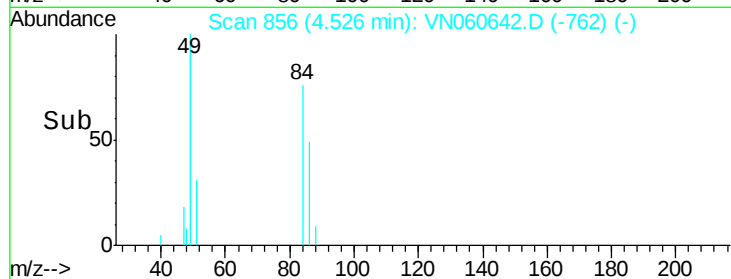
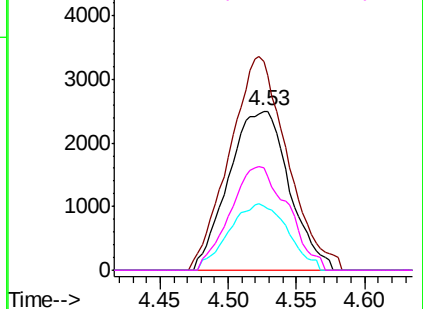


Abundance Ion 83.90 (83.60 to 84.60): VN060642.D (-762) (-)

Ion 48.90 (48.60 to 49.60): VN060642.D (-762) (-)

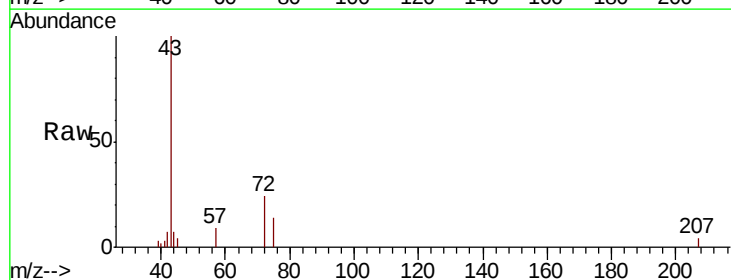
Ion 50.90 (50.60 to 51.60): VN060642.D (-762) (-)

Ion 85.90 (85.60 to 86.60): VN060642.D (-762) (-)



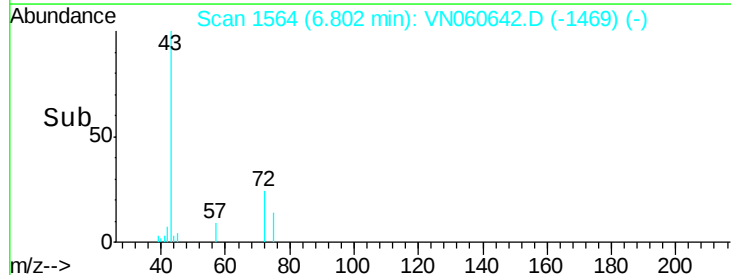
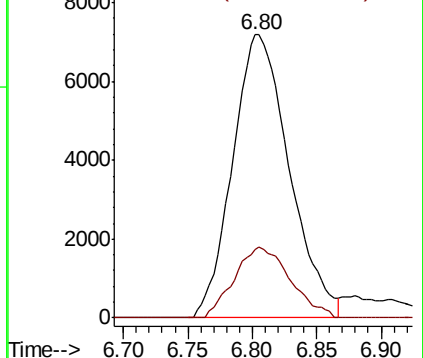
#25
2-Butanone
Concen: 14.376 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

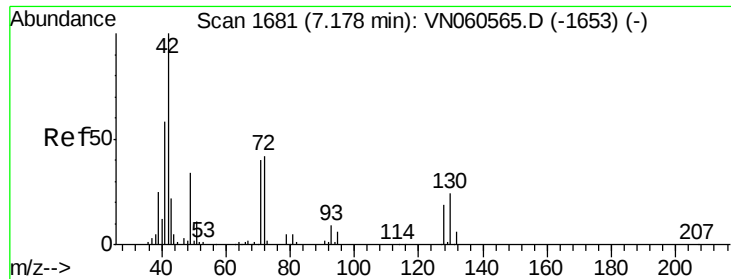
Tgt Ion:	43	Resp:	21981
Ion	Ratio	Lower	Upper
43	100		
72	24.2	20.4	30.6



Abundance Ion 43.00 (42.70 to 43.70): VN060642.D (-1469) (-)

Ion 72.00 (71.70 to 72.70): VN060642.D (-1469) (-)

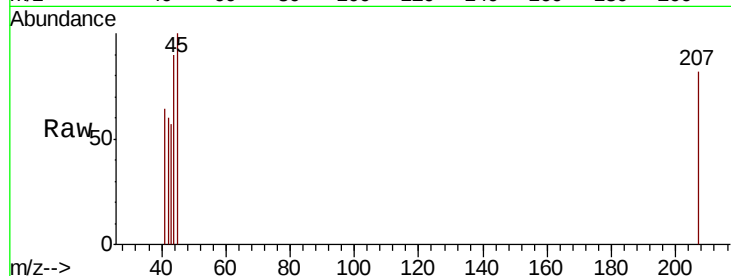




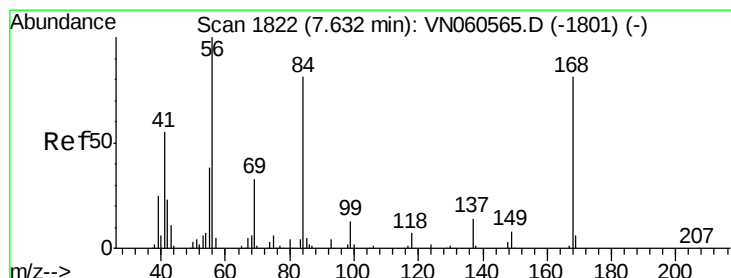
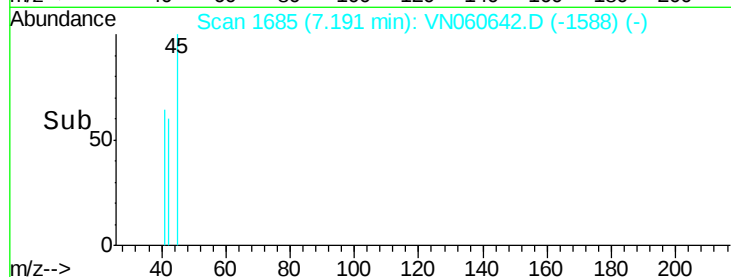
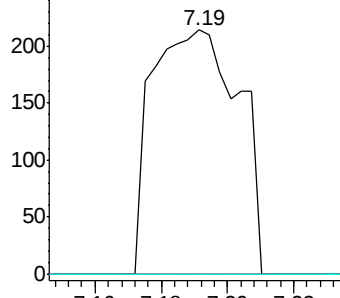
#29
Tetrahydrofuran
Concen: 0.362 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.01 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 42 Resp: 392
Ion Ratio Lower Upper
42 100
72 0.0 33.2 49.8#
71 0.0 31.1 46.7#

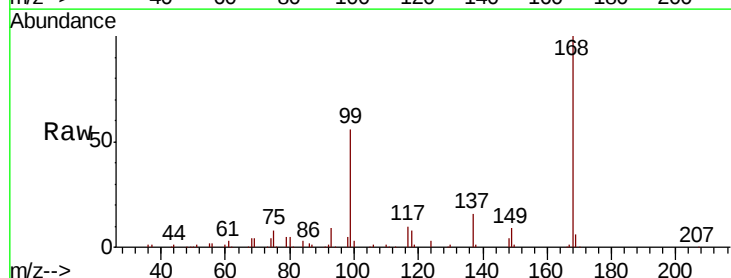


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

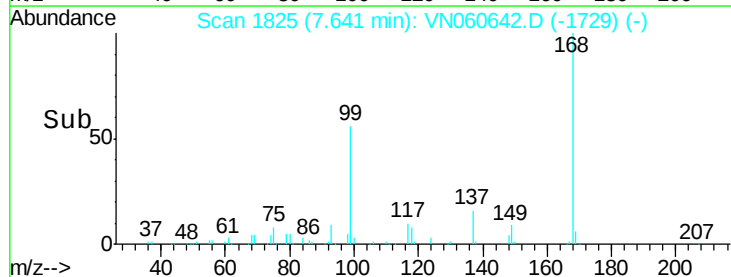
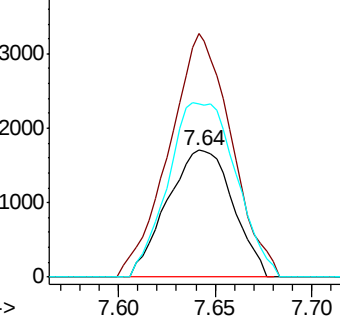


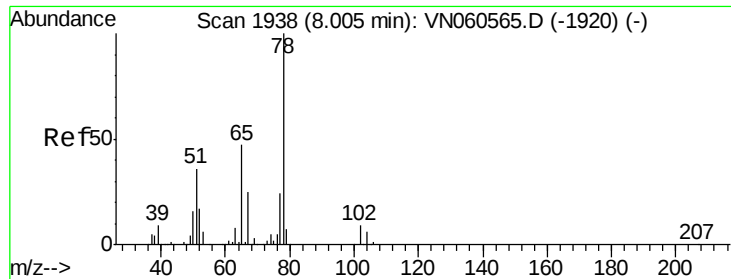
#31
Cyclohexane
Concen: 0.938 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

Tgt Ion: 56 Resp: 4028
Ion Ratio Lower Upper
56 100
69 182.1 26.6 40.0#
84 136.9 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

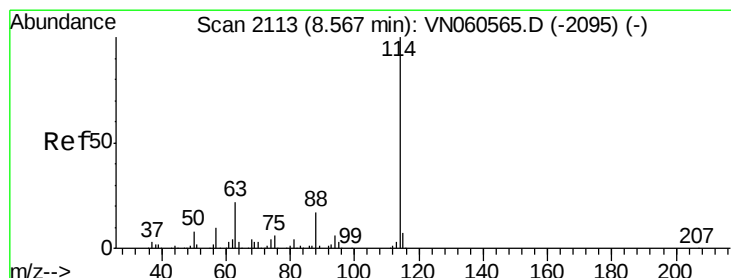
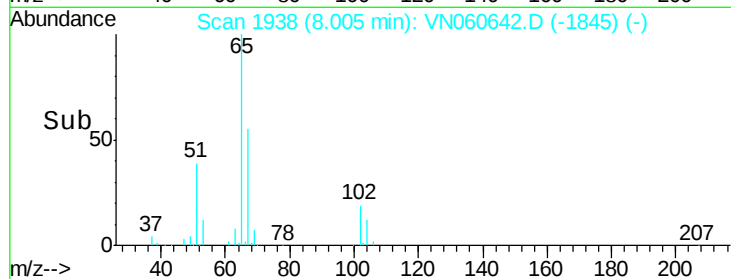
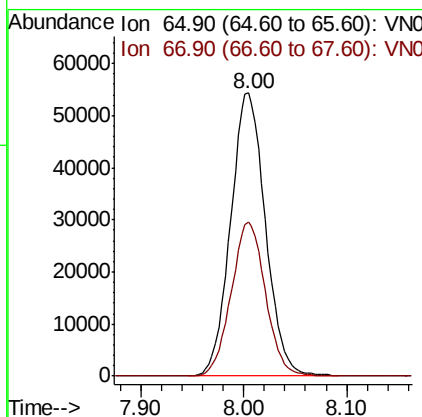
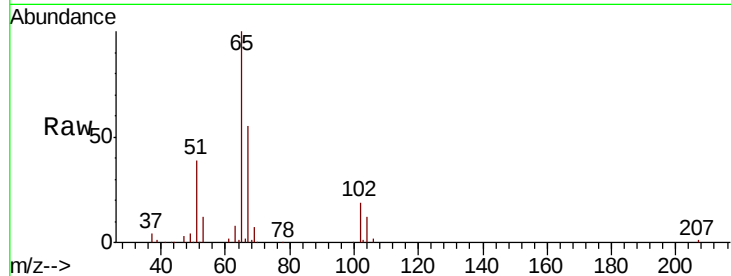




#33
 1,2-Dichloroethane-d4
 Concen: 47.803 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060642.D
 Acq: 19 Mar 2020 17:17

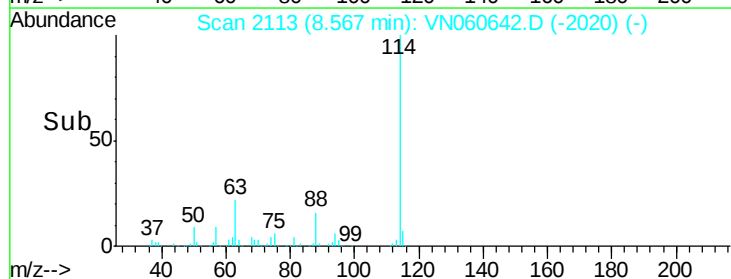
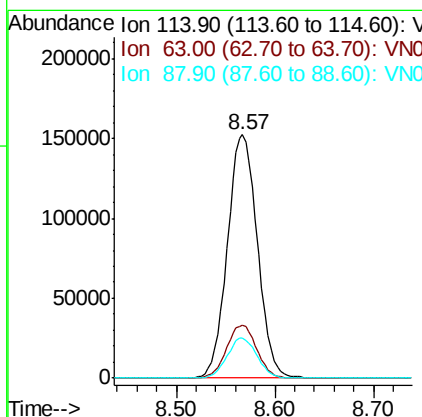
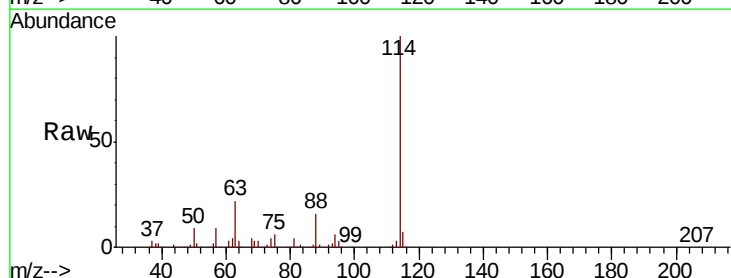
Instrument :
 MSVOA_N
 ClientSampleId :

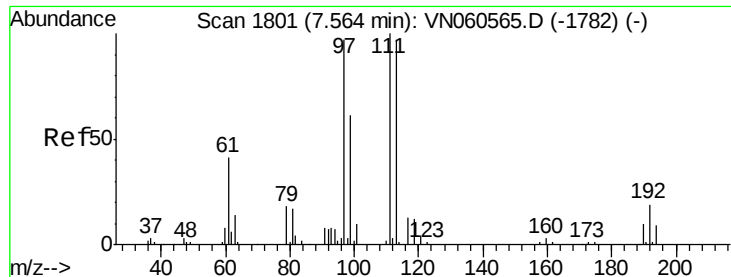
Tot Ion: 65 Resp: 127513
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060642.D
 Acq: 19 Mar 2020 17:17

Tgt Ion: 114 Resp: 323699
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.8
 88 16.4 0.0 33.0

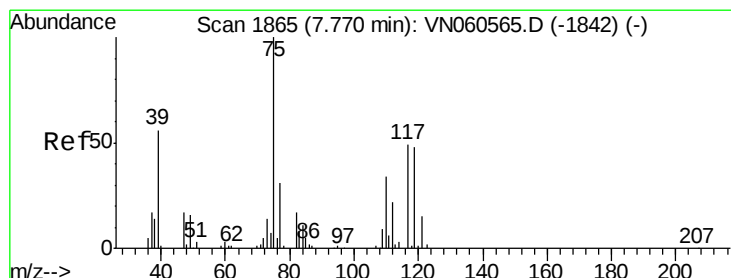
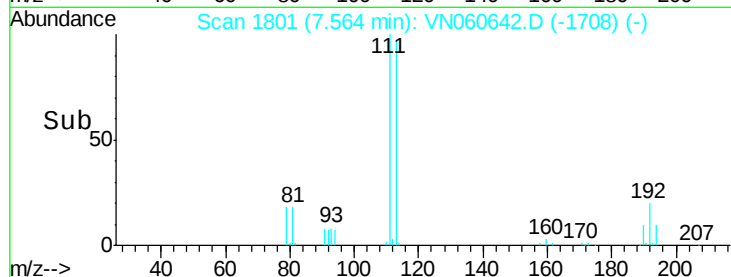
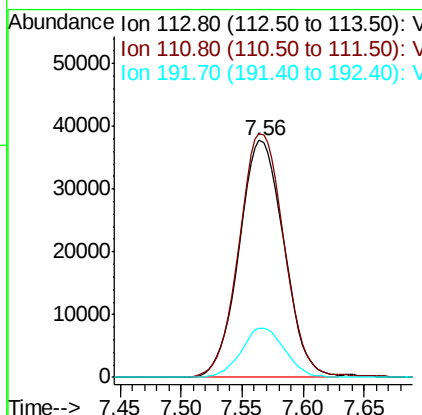
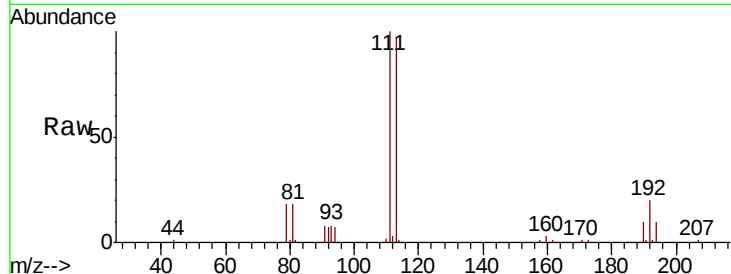




#35
 Dibromofluoromethane
 Concen: 48.980 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060642.D
 Acq: 19 Mar 2020 17:17

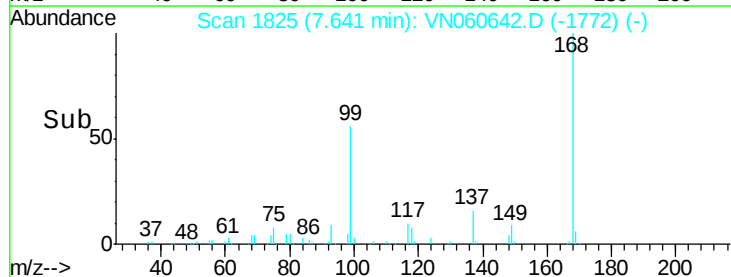
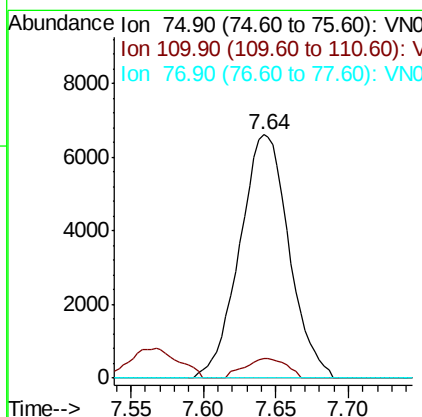
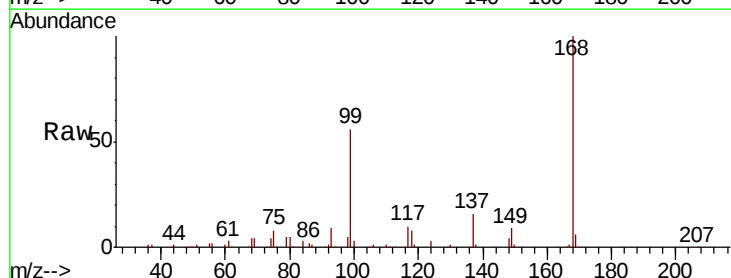
Instrument :
 MSVOA_N
 ClientSampled :

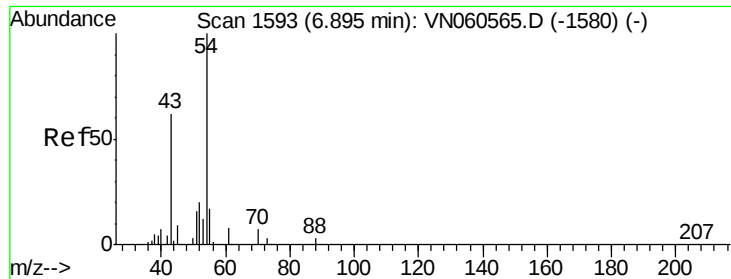
Tot Ion:113 Resp: 95868
 Ion Ratio Lower Upper
 113 100
 111 103.9 82.9 124.3
 192 20.3 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.993 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060642.D
 Acq: 19 Mar 2020 17:17

Tgt Ion: 75 Resp: 15650
 Ion Ratio Lower Upper
 75 100
 110 6.8 16.9 50.6#
 77 0.0 24.6 36.8#

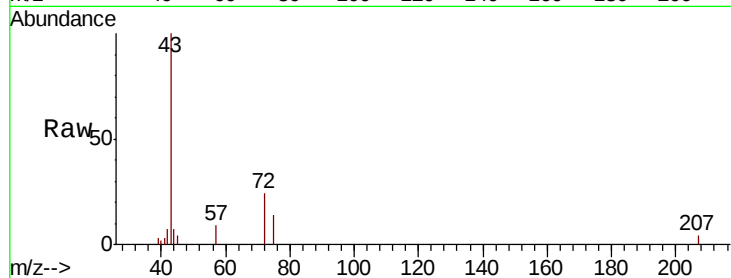




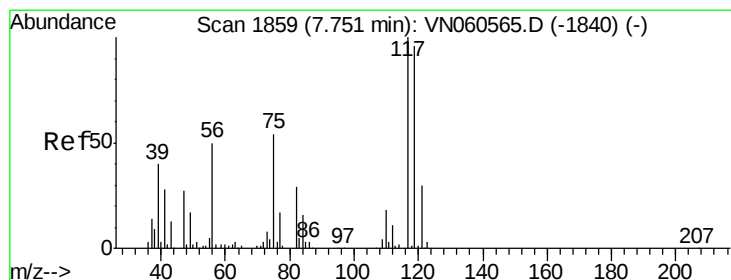
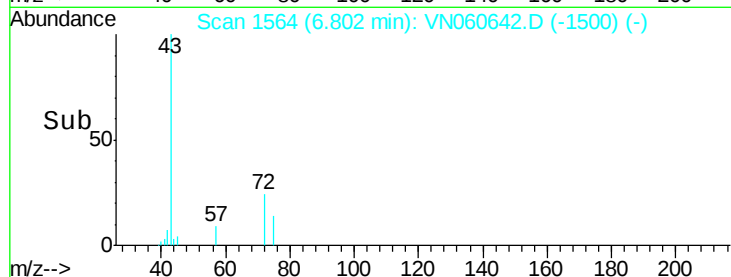
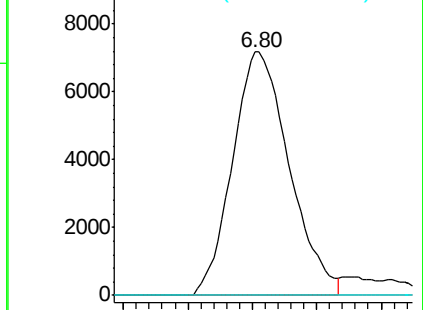
#37
Ethyl Acetate
Concen: 6.490 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.09 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 21981
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#

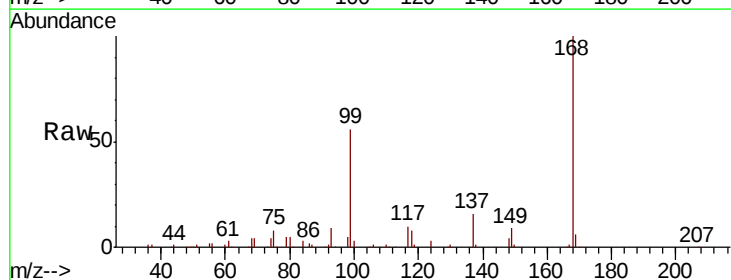


Abundance Ion 43.00 (42.70 to 43.70): VN060642.D (-1500) (-)
Ion 60.90 (60.60 to 61.60): VN060642.D (-1500) (-)
Ion 70.00 (69.70 to 70.70): VN060642.D (-1500) (-)

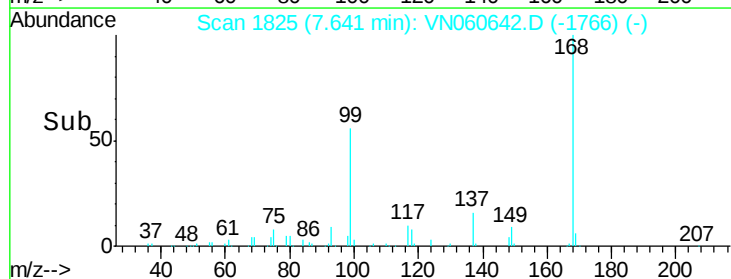
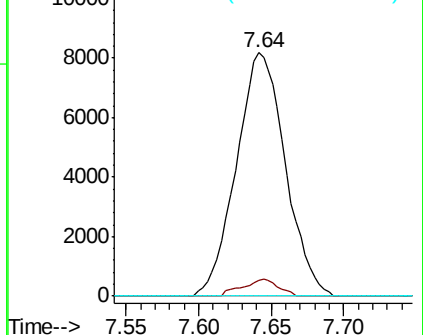


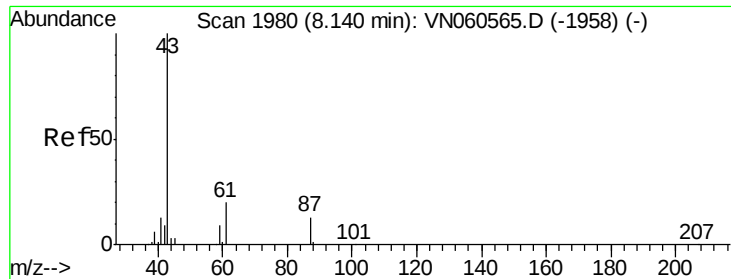
#38
Carbon Tetrachloride
Concen: 6.826 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

Tgt Ion: 117 Resp: 19175
Ion Ratio Lower Upper
117 100
119 6.3 76.2 114.2#
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): VN060642.D (-1766) (-)
Ion 118.80 (118.50 to 119.50): VN060642.D (-1766) (-)
Ion 120.80 (120.50 to 121.50): VN060642.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 3.420 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060642.D

Acq: 19 Mar 2020 17:17

Instrument :

MSVOA_N

ClientSampled :

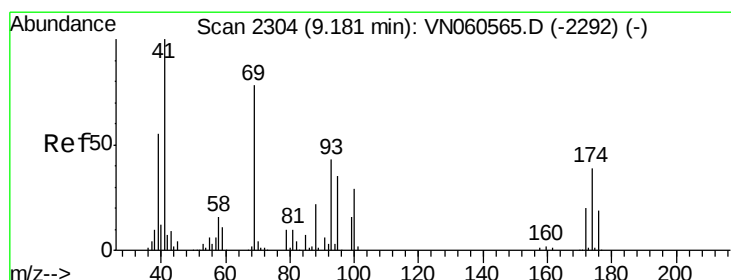
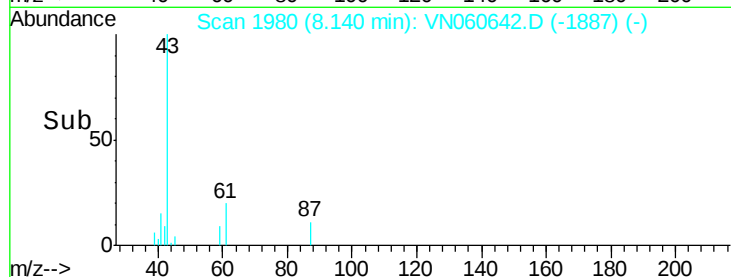
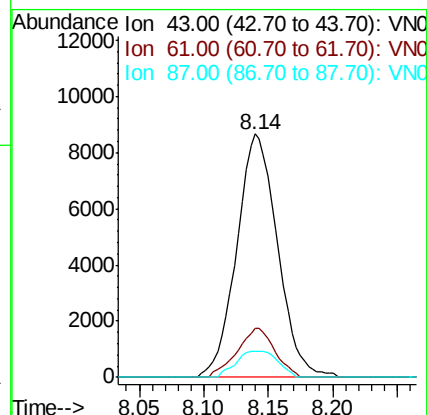
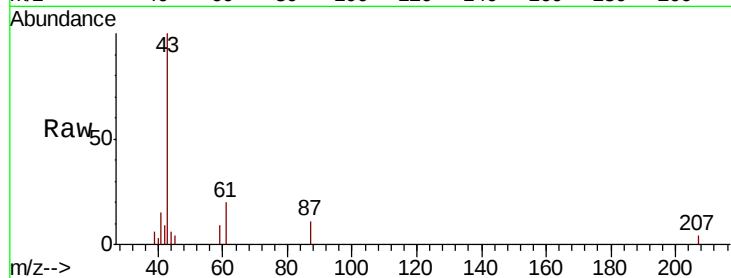
Tot Ion: 43 Resp: 19105

Ion Ratio Lower Upper

43 100

61 18.5 20.7 31.1#

87 10.9 9.8 14.8



#48

Methyl methacrylate

Concen: 1.136 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060642.D

Acq: 19 Mar 2020 17:17

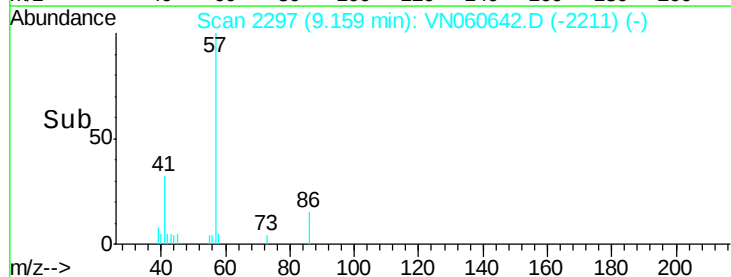
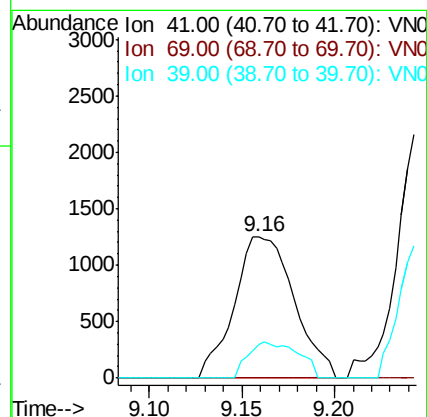
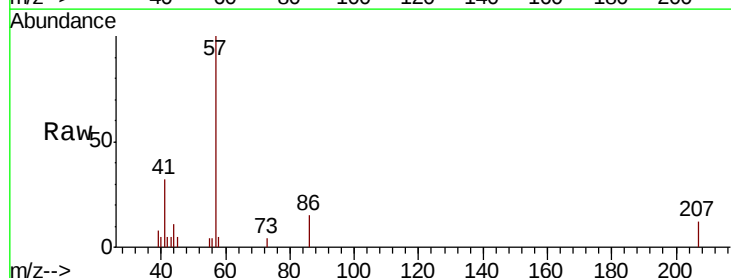
Tgt Ion: 41 Resp: 2826

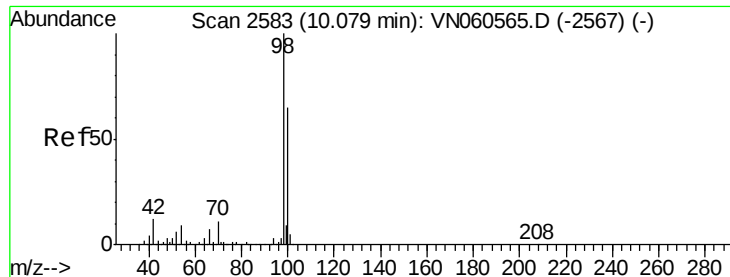
Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

39 21.4 44.0 66.0#





#50

Toluene-d8

Concen: 50.260 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060642.D

Acq: 19 Mar 2020 17:17

Instrument :

MSVOA_N

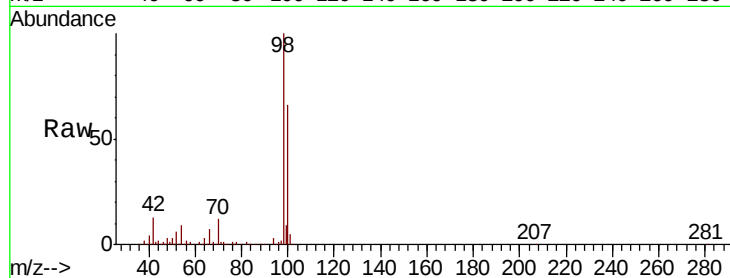
ClientSampled :

Tot Ion: 98 Resp: 401820

Ion Ratio Lower Upper

98 100

100 65.3 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

250000

200000

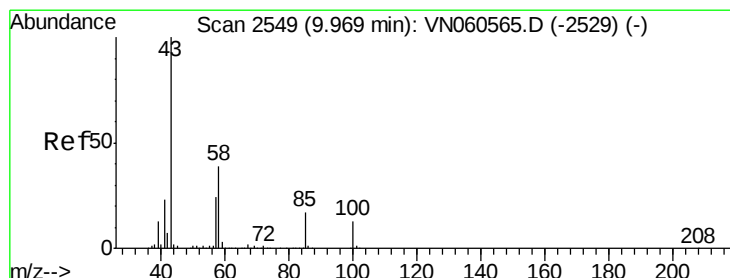
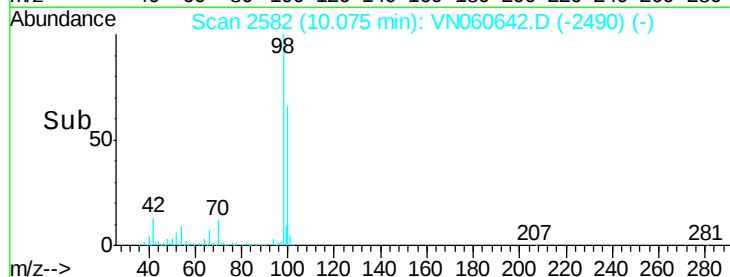
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 12.527 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060642.D

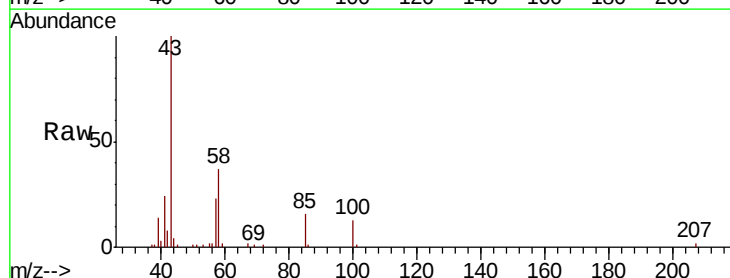
Acq: 19 Mar 2020 17:17

Tgt Ion: 43 Resp: 39816

Ion Ratio Lower Upper

43 100

58 37.8 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.97

25000

20000

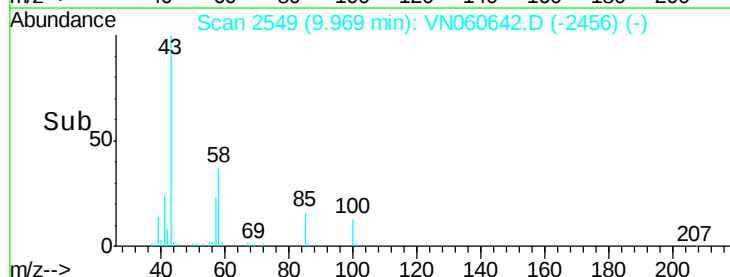
15000

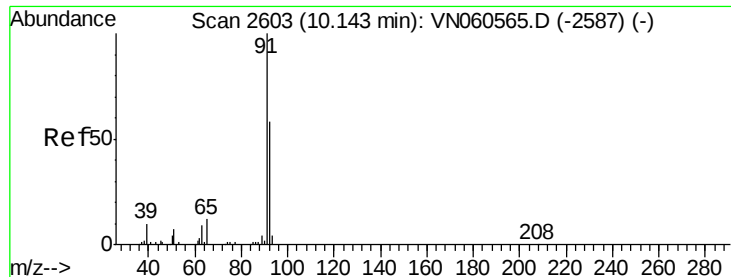
10000

5000

0

Time-->





#52

Toluene

Concen: 175.815 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060642.D

Acq: 19 Mar 2020 17:17

Instrument :

MSVOA_N

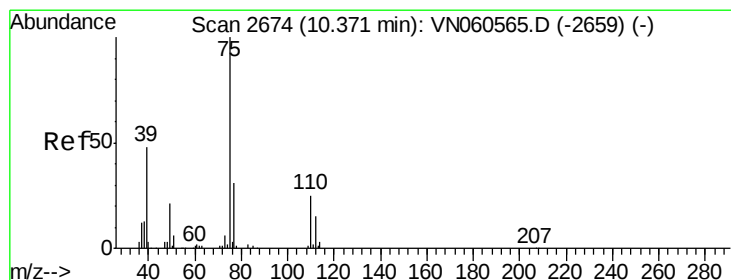
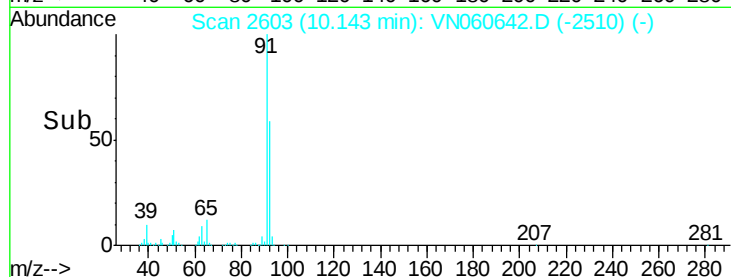
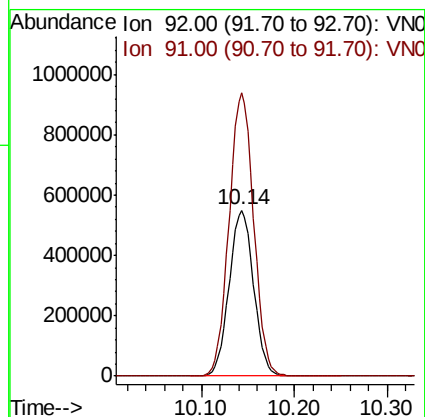
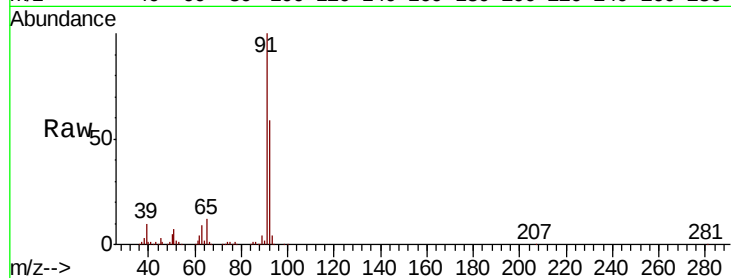
ClientSampleId :

Tot Ion: 92 Resp: 1004682

Ion Ratio Lower Upper

92 100

91 171.4 137.6 206.4



#53

t-1,3-Dichloropropene

Concen: 3.180 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.23 min

Lab File: VN060642.D

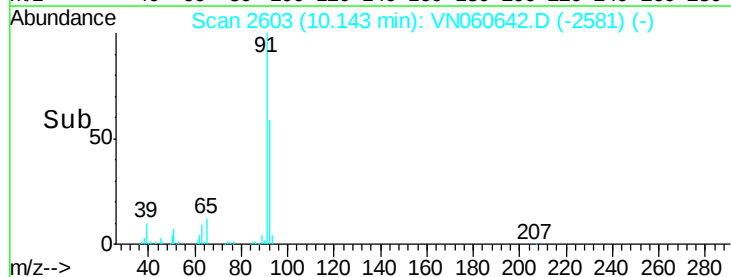
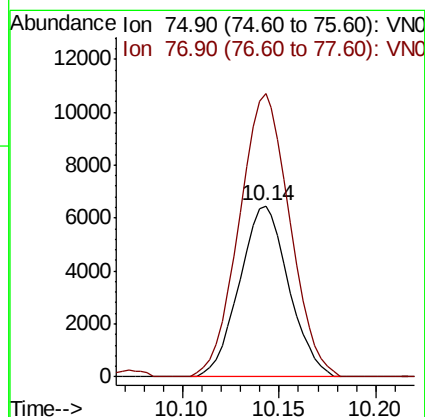
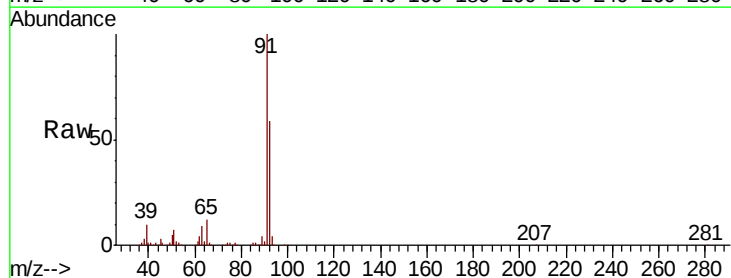
Acq: 19 Mar 2020 17:17

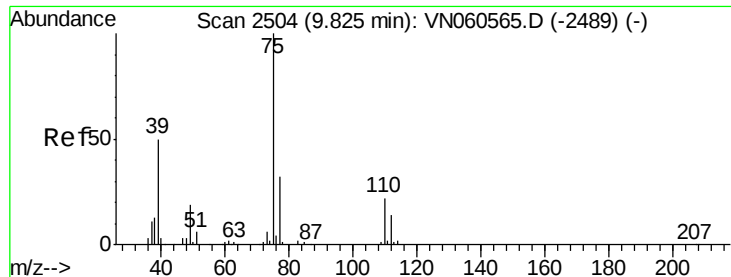
Tgt Ion: 75 Resp: 11456

Ion Ratio Lower Upper

75 100

77 165.2 25.1 37.7#





#54

cis-1,3-Dichloropropene

Concen: 1.719 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060642.D

Acq: 19 Mar 2020 17:17

Instrument :

MSVOA_N

ClientSampleId :

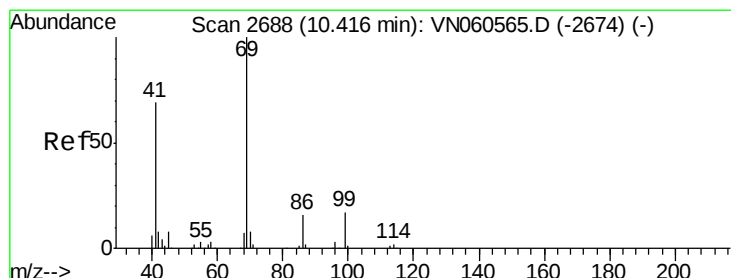
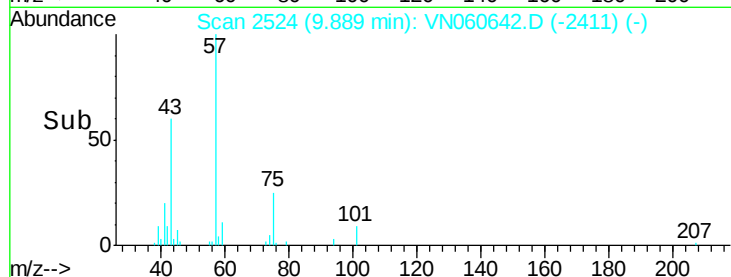
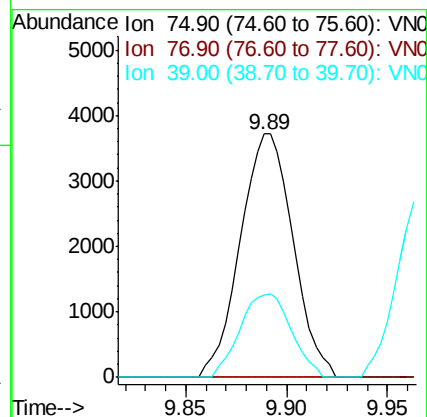
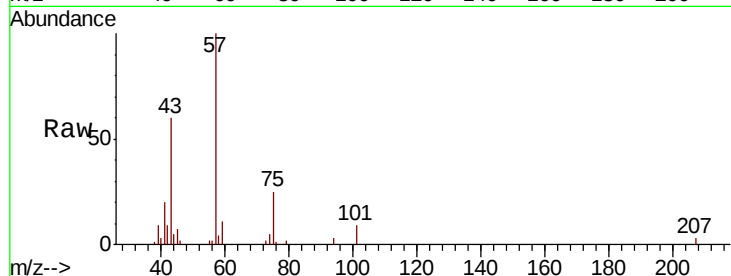
Tot Ion: 75 Resp: 6794

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 33.9 40.2 60.4#



#56

Ethyl methacrylate

Concen: 0.683 ug/l

RT: 10.34 min Scan# 2664

Delta R.T. -0.08 min

Lab File: VN060642.D

Acq: 19 Mar 2020 17:17

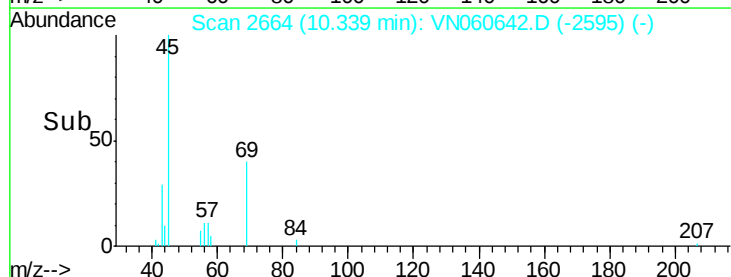
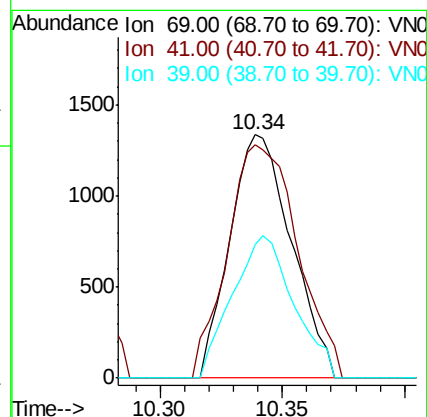
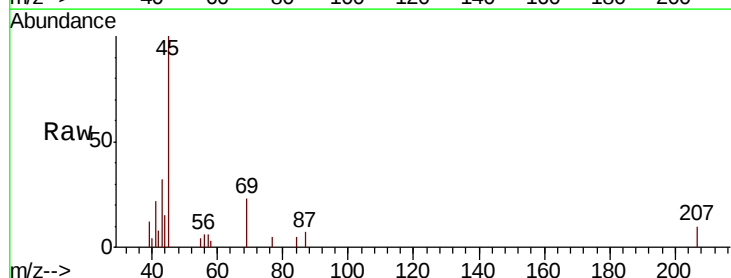
Tgt Ion: 69 Resp: 2341

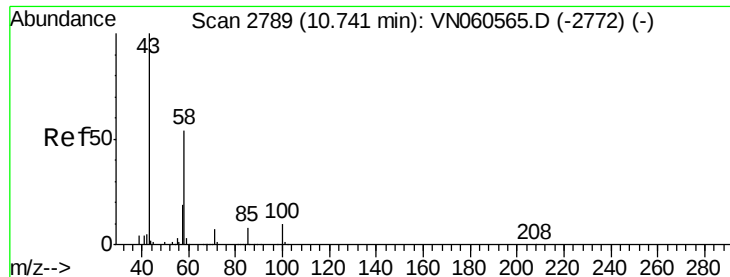
Ion Ratio Lower Upper

69 100

41 109.2 55.4 83.2#

39 0.0 29.4 44.0#

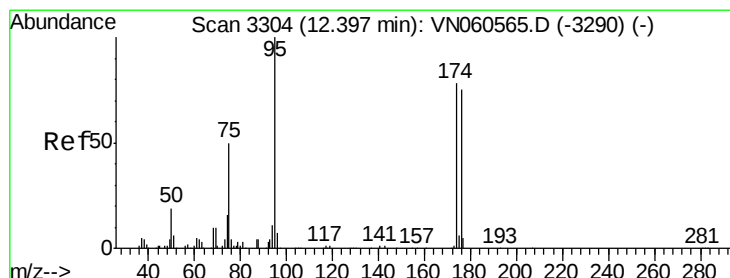
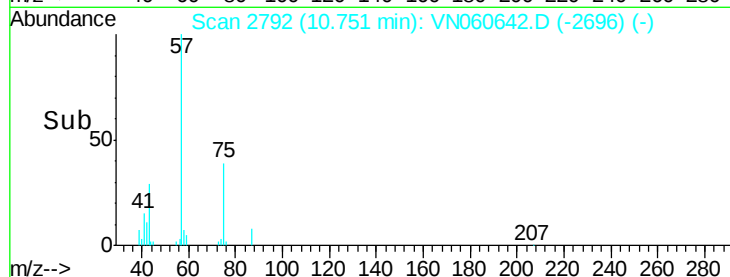
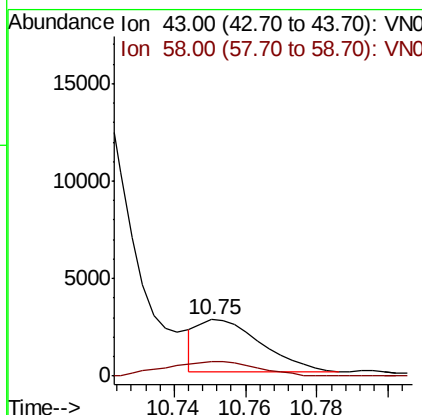
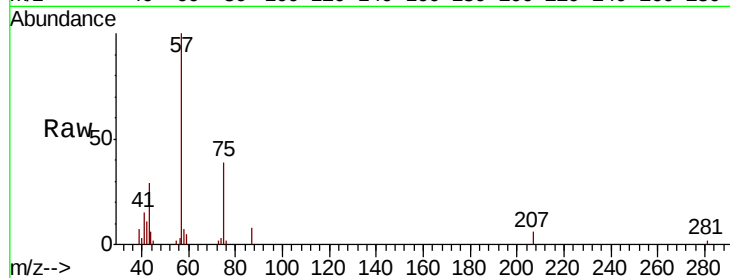




#59
2-Hexanone
Concen: 1.447 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

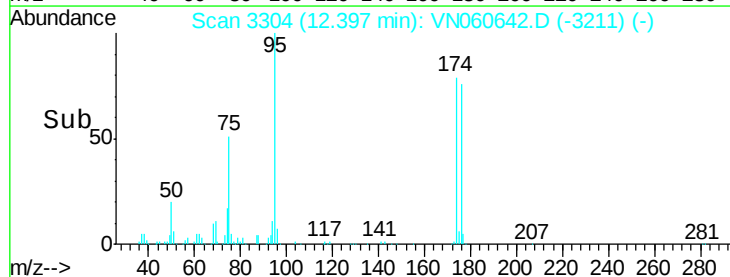
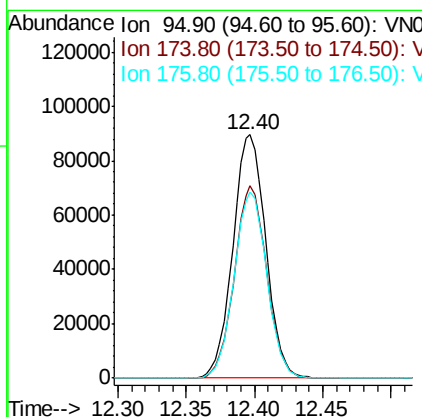
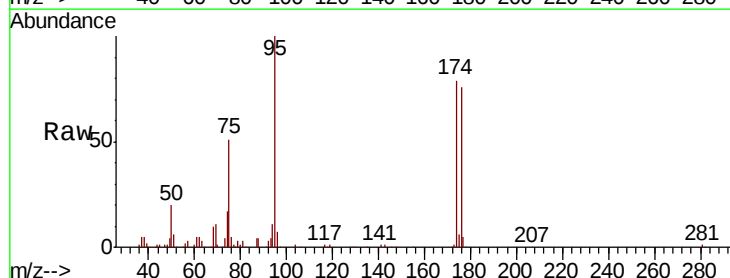
Instrument :
MSVOA_N
ClientSampled :

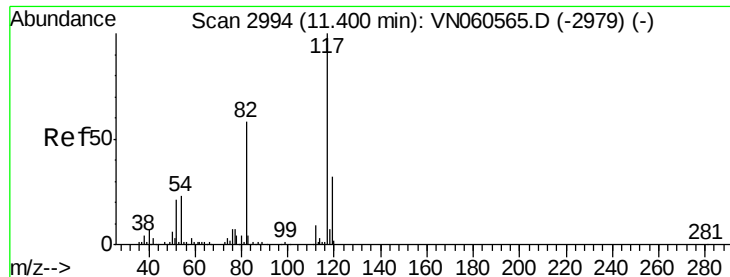
Tot Ion: 43 Resp: 3312
Ion Ratio Lower Upper
43 100
58 39.7 26.7 80.1



#62
4-Bromofluorobenzene
Concen: 51.178 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

Tgt Ion: 95 Resp: 149952
Ion Ratio Lower Upper
95 100
174 77.4 0.0 157.6
176 76.1 0.0 150.6

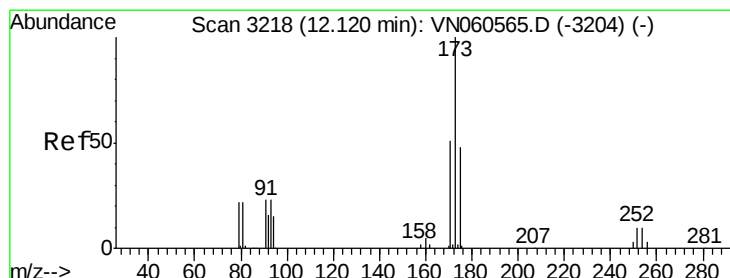
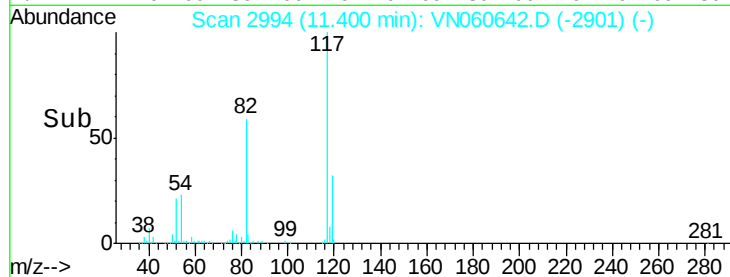
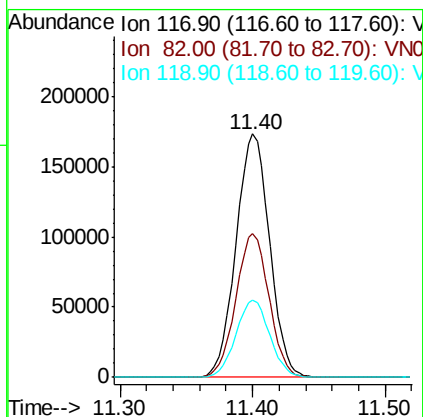
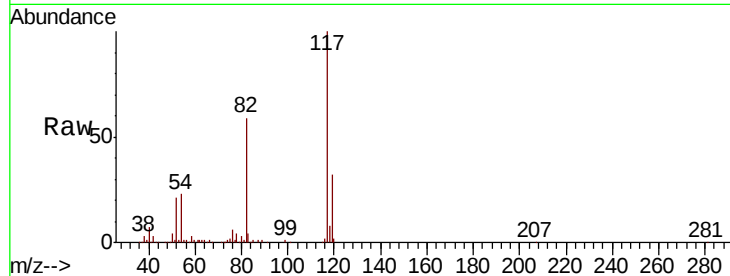




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

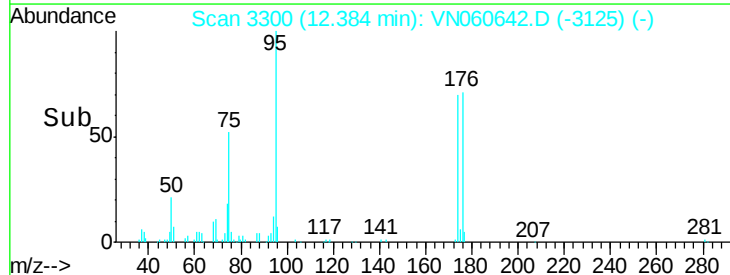
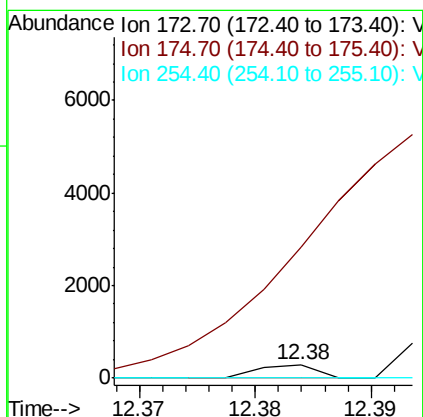
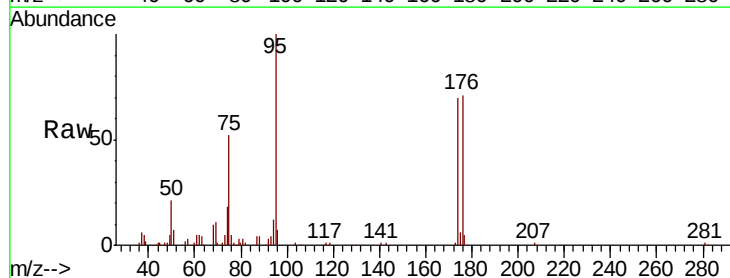
Instrument :
MSVOA_N
ClientSampled :

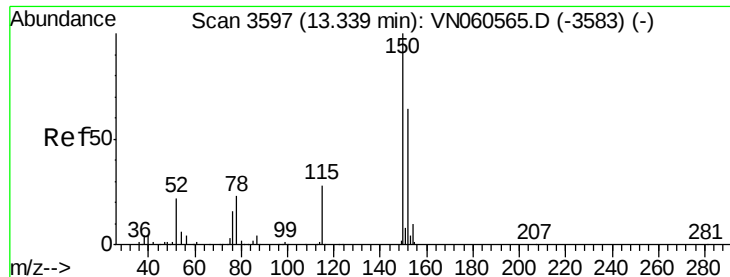
Tot Ion:117 Resp: 305055
Ion Ratio Lower Upper
117 100
82 59.3 46.7 70.1
119 31.8 25.5 38.3



#71
Bromoform
Concen: 1.733 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.26 min
Lab File: VN060642.D
Acq: 19 Mar 2020 17:17

Tgt Ion:173 Resp: 98
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060642.D

Acq: 19 Mar 2020 17:17

Instrument :

MSVOA_N

ClientSampleId :

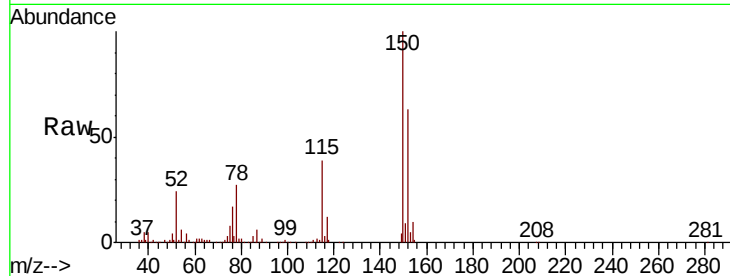
Tot Ion:152 Resp: 140791

Ion Ratio Lower Upper

152 100

115 60.9 30.2 90.6

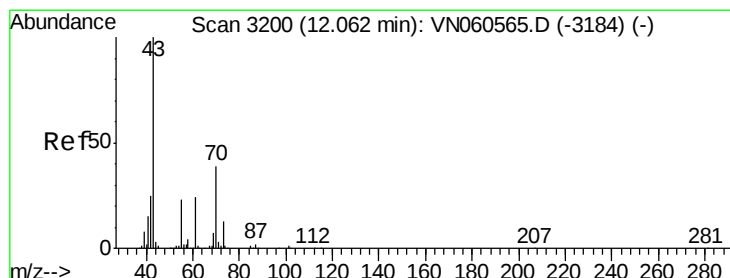
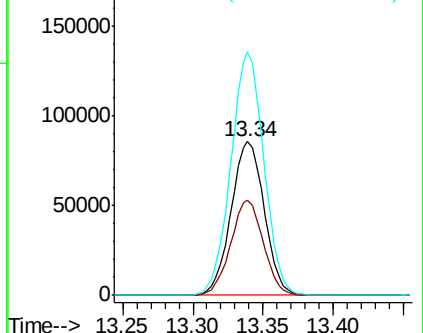
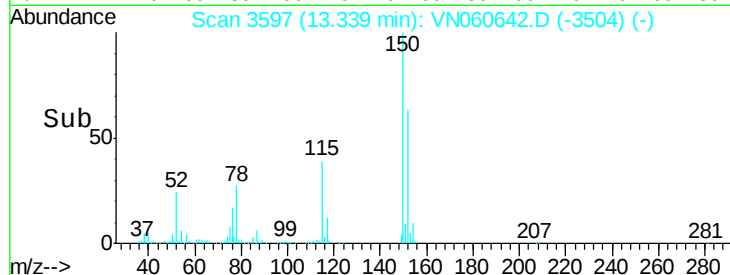
150 157.7 0.0 350.2



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: 0.733 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060642.D

Acq: 19 Mar 2020 17:17

Tgt Ion: 43 Resp: 3580

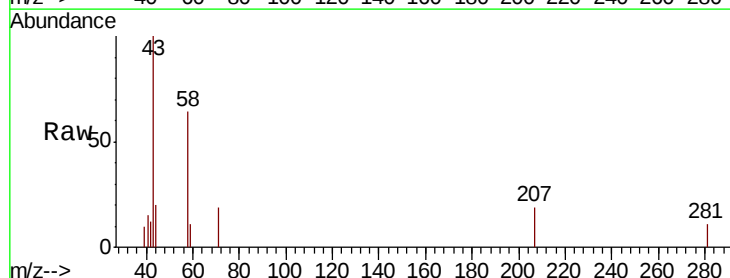
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

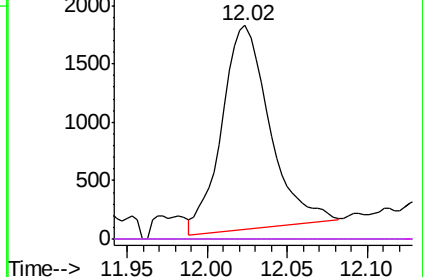
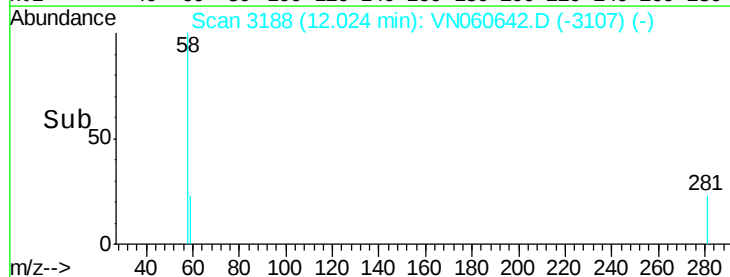


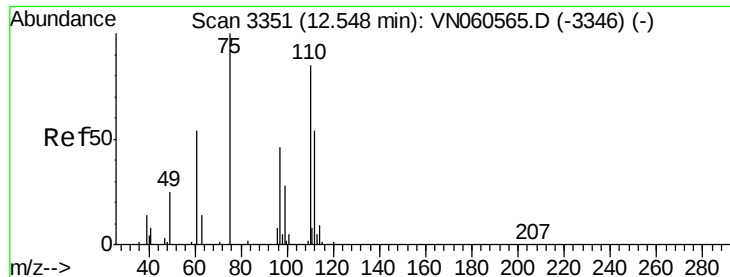
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.962 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060642.D

Acq: 19 Mar 2020 17:17

Instrument :

MSVOA_N

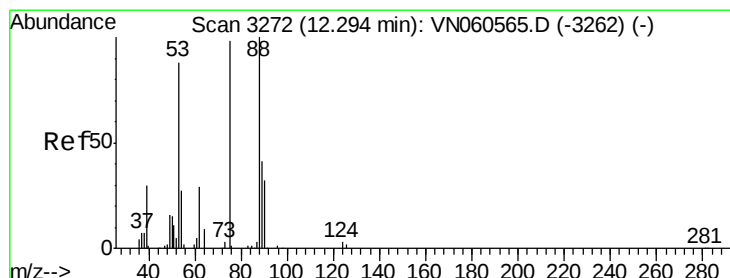
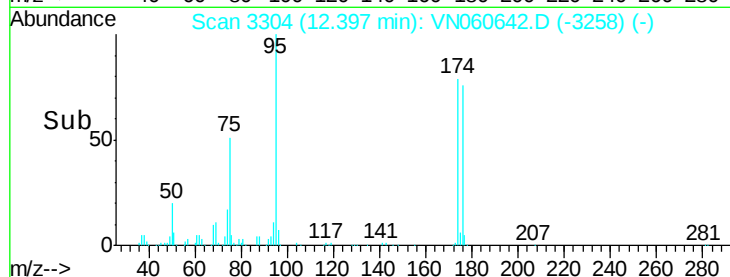
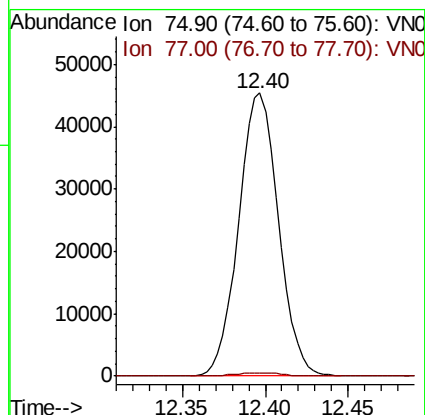
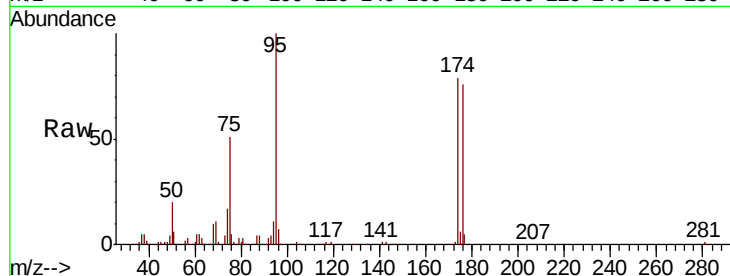
ClientSampled :

Tot Ion: 75 Resp: 75835

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.111 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060642.D

Acq: 19 Mar 2020 17:17

Tgt Ion: 75 Resp: 75835

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

