

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062620\
 Data File : VN062164.D
 Acq On : 27 Jun 2020 1:52
 Operator : JC/MD
 Sample : L3114-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-242

Quant Time: Jun 27 03:50:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	216617	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	410689	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	397808	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	149594	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	151844	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
35) Dibromofluoromethane	7.55	113	129476	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
50) Toluene-d8	10.06	98	520251	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
62) 4-Bromofluorobenzene	12.38	95	169511	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	

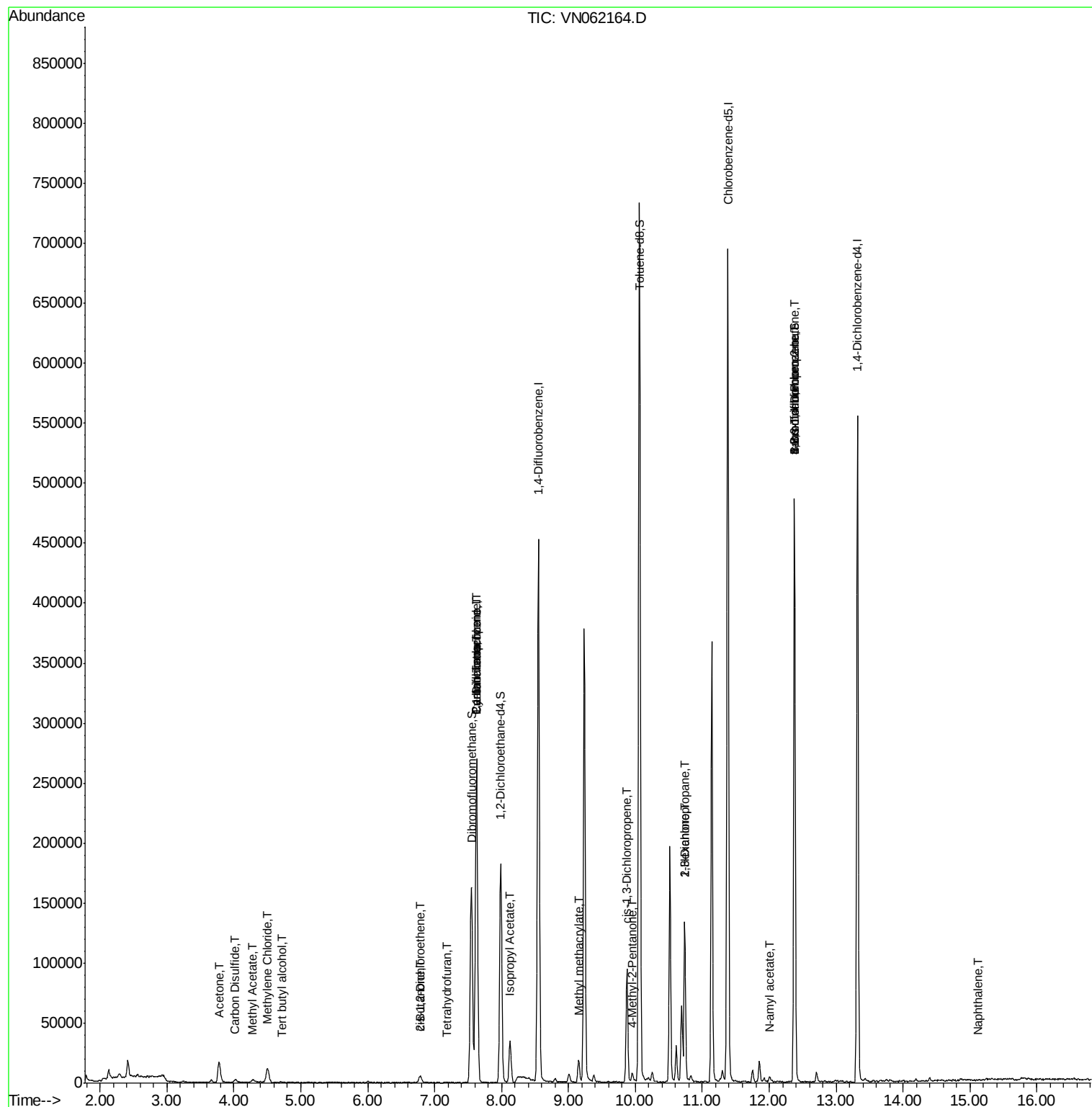
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	227	Below Cal	#	41
11) Tert butyl alcohol	4.73	59	516	1.182	ug/l #	72
16) Acetone	3.78	43	29590	27.404	ug/l	97
17) Carbon Disulfide	4.02	76	1971	0.327	ug/l #	75
18) Methyl Acetate	4.28	43	4830	1.999	ug/l #	72
20) Methylene Chloride	4.50	84	9584	3.232	ug/l	89
25) 2-Butanone	6.79	43	5663	3.811	ug/l	91
27) cis-1,2-Dichloroethene	6.78	96	773	0.242	ug/l #	9
29) Tetrahydrofuran	7.18	42	555	0.570	ug/l #	28
31) Cyclohexane	7.63	56	4961	1.181	ug/l #	20
36) 1,1-Dichloropropene	7.63	75	17345	4.202	ug/l #	48
38) Carbon Tetrachloride	7.63	117	22085	5.675	ug/l #	15
43) Isopropyl Acetate	8.13	43	39232	7.041	ug/l	99
48) Methyl methacrylate	9.15	41	2850	1.141	ug/l #	6
51) 4-Methyl-2-Pentanone	9.96	43	4624	1.420	ug/l	96
54) cis-1,3-Dichloropropene	9.88	75	17140	3.444	ug/l #	64
57) 1,3-Dichloropropane	10.74	76	1441	0.277	ug/l #	42
59) 2-Hexanone	10.74	43	17522	7.453	ug/l #	59
71) Bromoform	12.38	173	1374	0.640	ug/l #	1
74) N-amyl acetate	12.01	43	2999	4.000	ug/l #	42
76) 1,2,3-Trichloropropane	12.38	75	86644	24.604	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	86644	71.852	ug/l #	13
95) Naphthalene	15.11	128	277	4.031	ug/l #	69

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

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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

Instrument :

MSVOA_N

ClientSampleId :

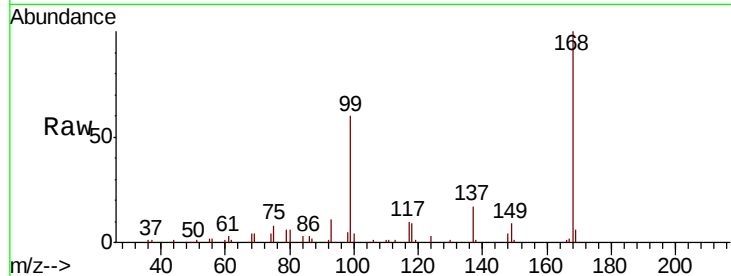
VNJ-242

Tot Ion:168 Resp: 216617

Ion Ratio Lower Upper

168 100

99 60.0 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

80000

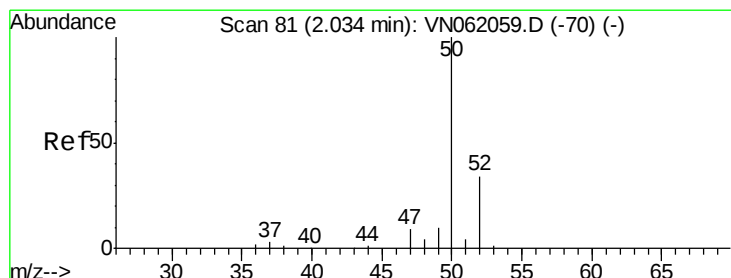
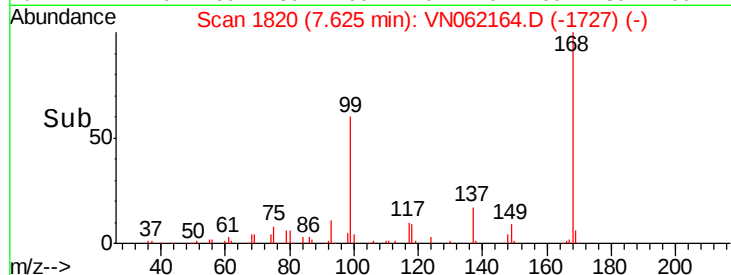
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN062164.D

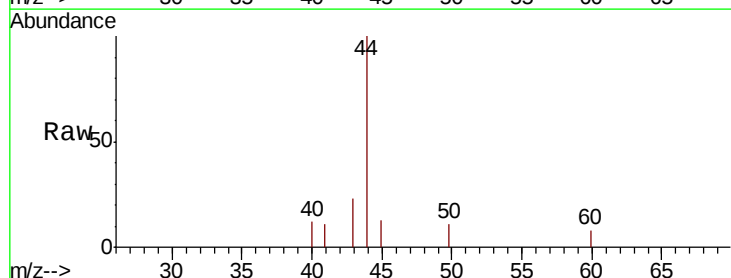
Acq: 27 Jun 2020 1:52

Tgt Ion: 50 Resp: 227

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

250

200

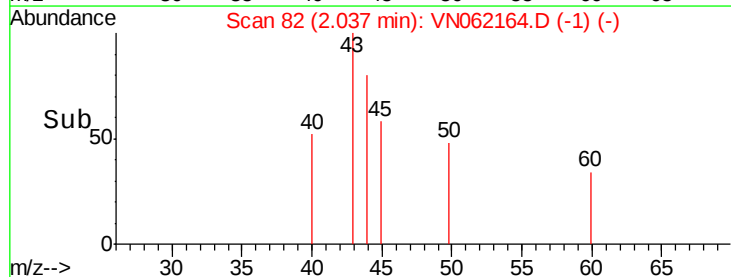
150

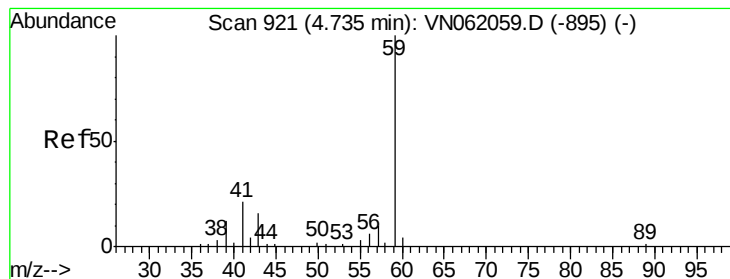
100

50

0

Time--> 2.02 2.04 2.06





#11

Tert butyl alcohol

Concen: 1.182 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.01 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

Instrument :

MSVOA_N

ClientSampled :

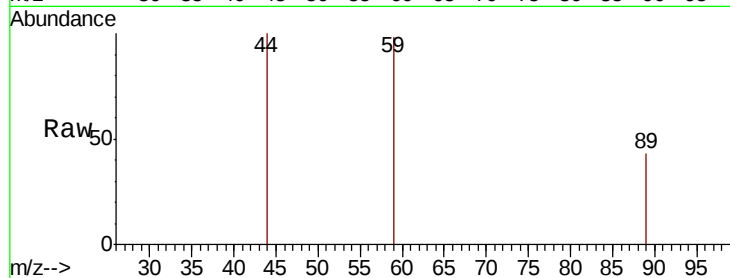
VNJ-242

Tot Ion: 59 Resp: 516

Ion Ratio Lower Upper

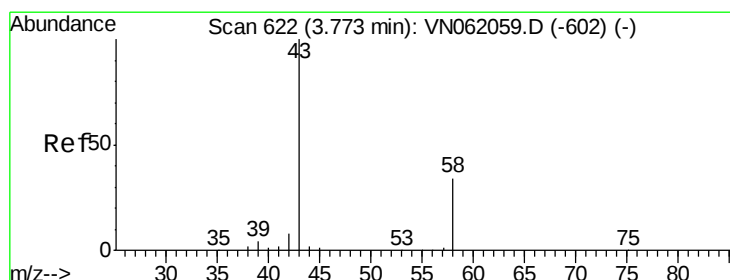
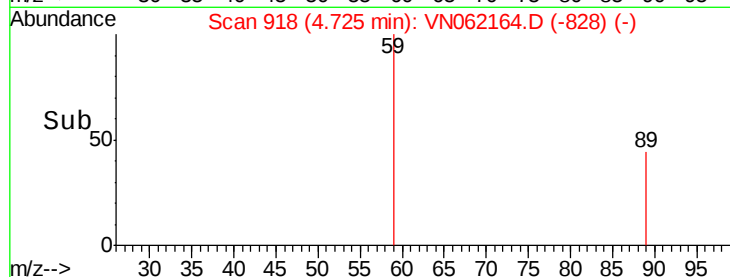
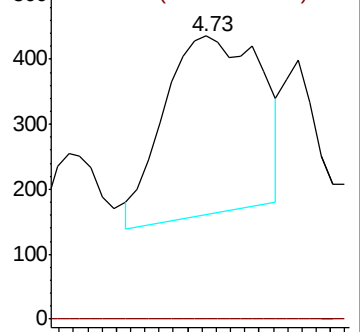
59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#16

Acetone

Concen: 27.404 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062164.D

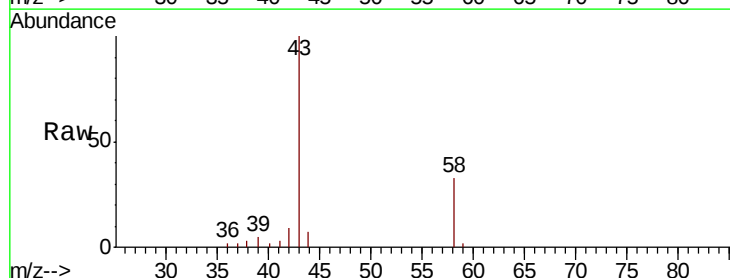
Acq: 27 Jun 2020 1:52

Tgt Ion: 43 Resp: 29590

Ion Ratio Lower Upper

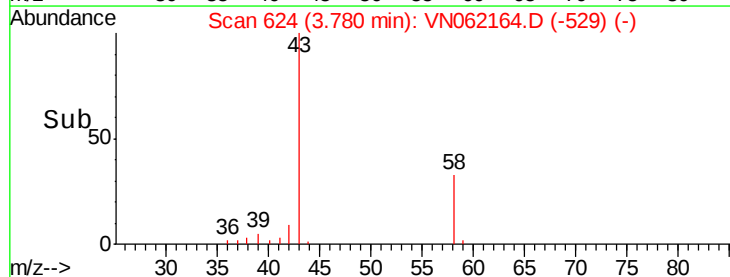
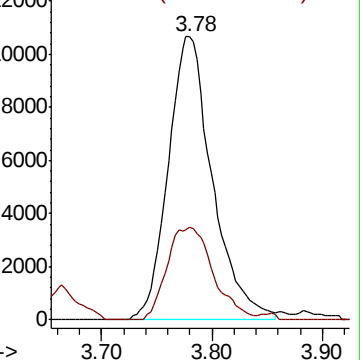
43 100

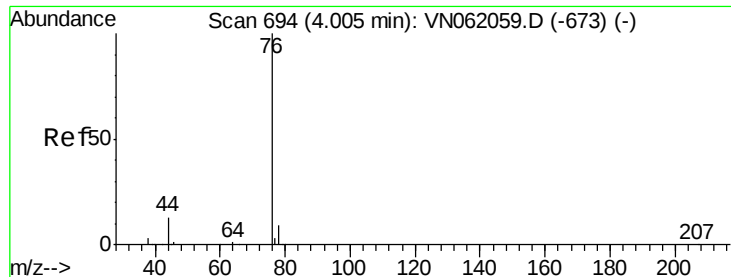
58 32.7 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.327 ug/l

RT: 4.02 min Scan# 698

Delta R.T. 0.01 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

Instrument :

MSVOA_N

ClientSampled :

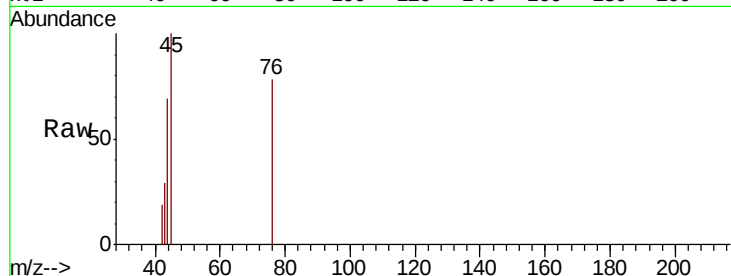
VNJ-242

Tot Ion: 76 Resp: 1971

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.02

800

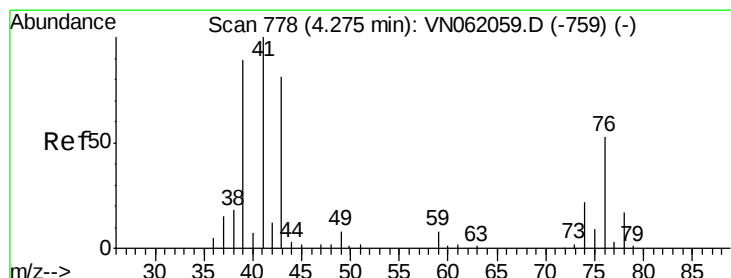
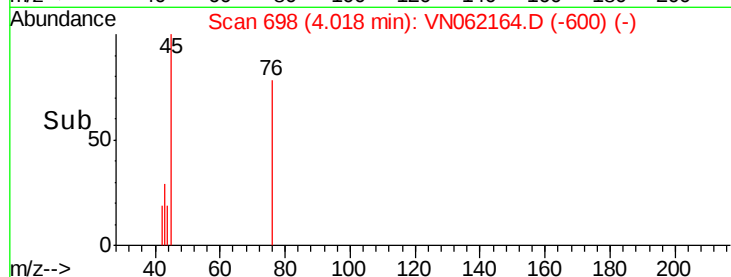
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 1.999 ug/l

RT: 4.28 min Scan# 779

Delta R.T. 0.00 min

Lab File: VN062164.D

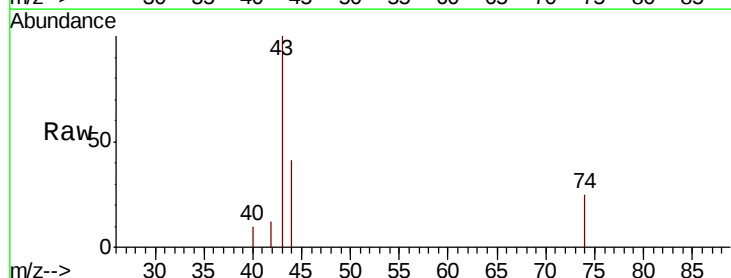
Acq: 27 Jun 2020 1:52

Tgt Ion: 43 Resp: 4830

Ion Ratio Lower Upper

43 100

74 13.9 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.28

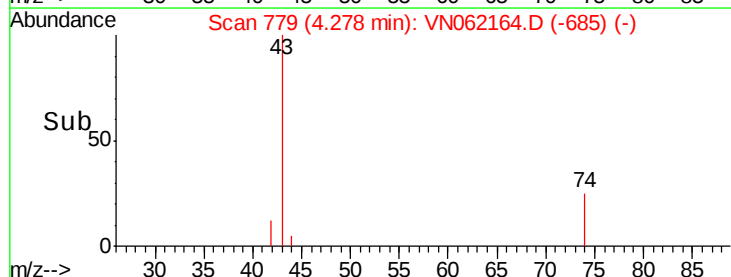
1500

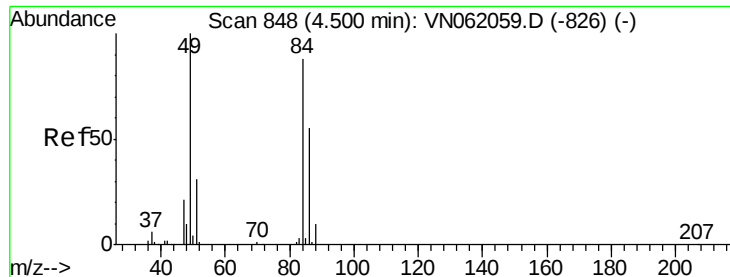
1000

500

0

Time-->

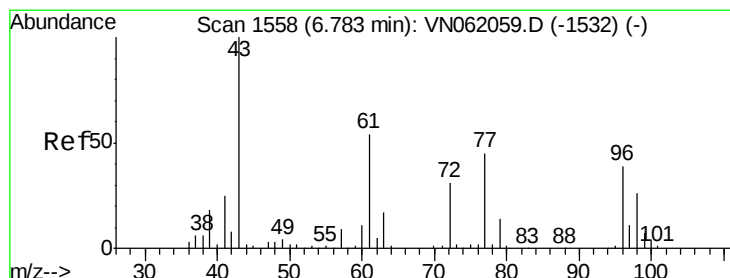
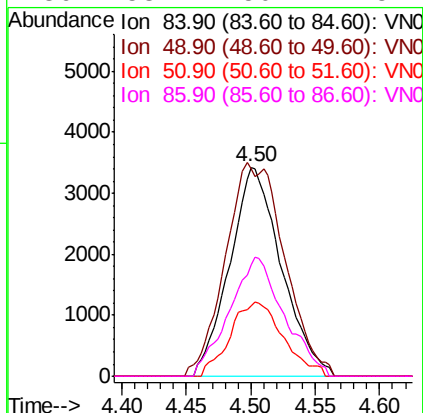
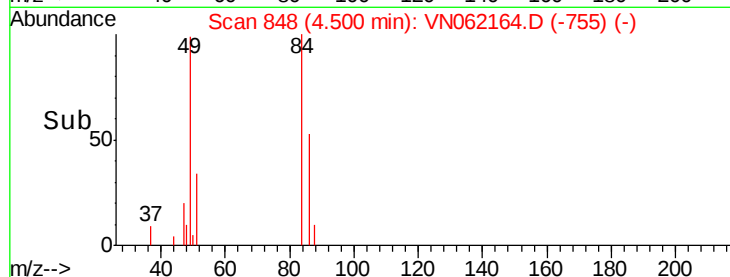
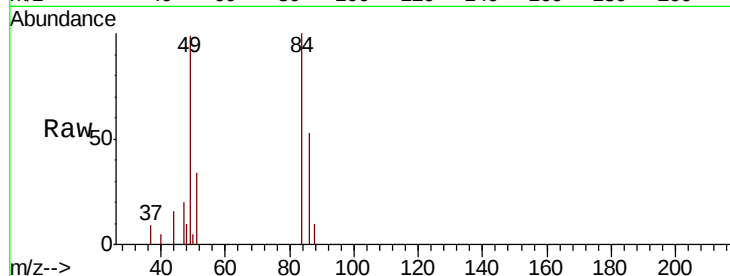




#20
Methvlene Chloride
Concen: 3.232 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN062164.D
Acq: 27 Jun 2020 1:52

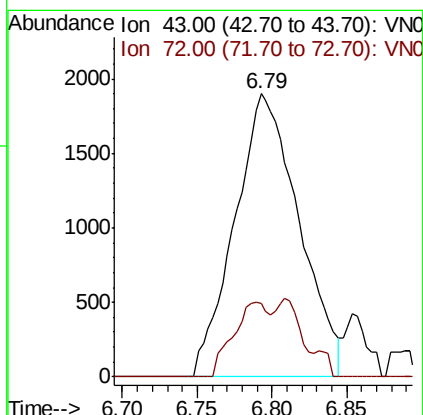
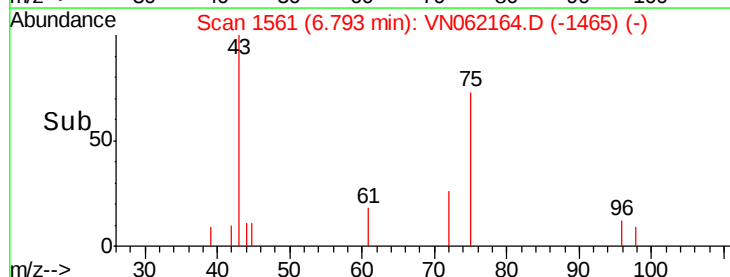
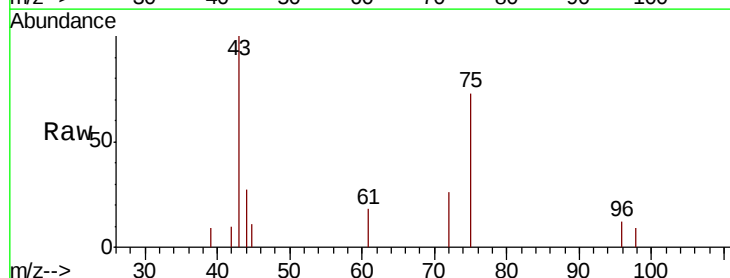
Instrument :
MSVOA_N
ClientSampled :
VNJ-242

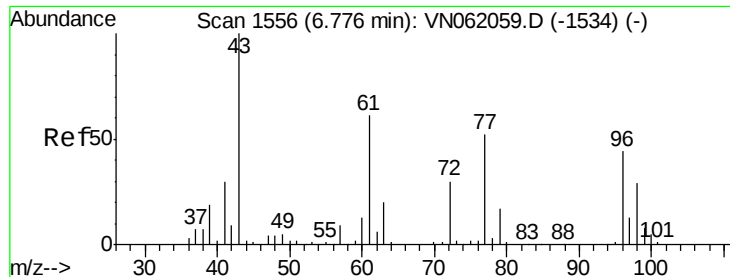
Tot Ion:	84	Resp:	9584
Ion	Ratio	Lower	Upper
84	100		
49	99.2	90.6	136.0
51	33.7	27.8	41.8
86	53.1	50.1	75.1



#25
2-Butanone
Concen: 3.811 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN062164.D
Acq: 27 Jun 2020 1:52

Tgt Ion:	43	Resp:	5663
Ion	Ratio	Lower	Upper
43	100		
72	25.8	24.8	37.2





#27

cis-1,2-Dichloroethene

Concen: 0.242 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.01 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

Instrument :

MSVOA_N

ClientSampled :

VNJ-242

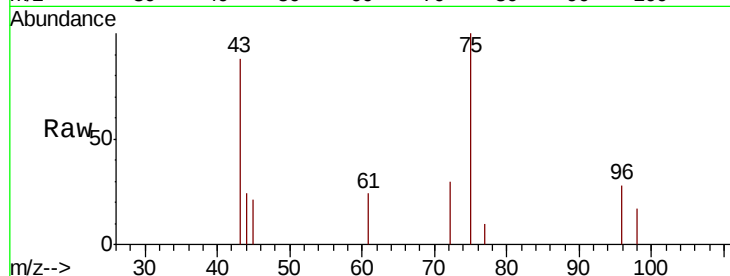
Tot Ion: 96 Resp: 773

Ion Ratio Lower Upper

96 100

61 0.0 0.0 280.4

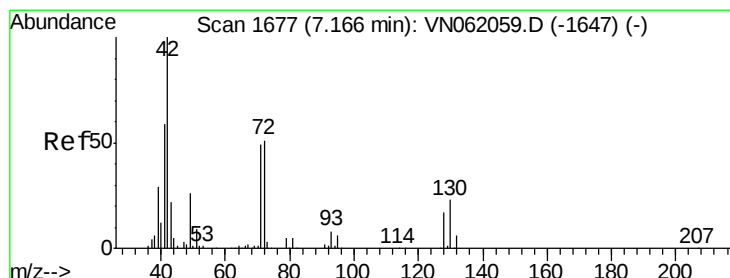
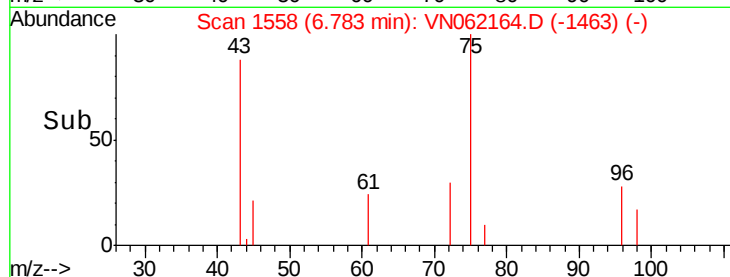
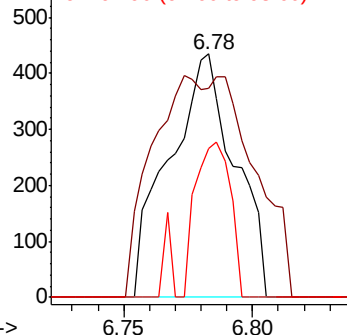
98 34.3 0.0 129.4



Abundance Ion 95.90 (95.60 to 96.60): VN062059.D (-1534) (-)

Ion 60.90 (60.60 to 61.60): VN062059.D (-1534) (-)

Ion 97.90 (97.60 to 98.60): VN062059.D (-1534) (-)



#29

Tetrahydrofuran

Concen: 0.570 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.02 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

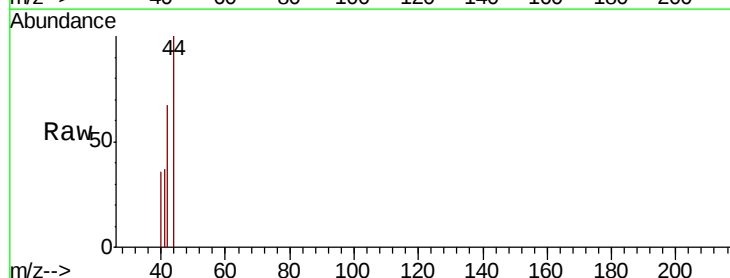
Tgt Ion: 42 Resp: 555

Ion Ratio Lower Upper

42 100

72 0.0 41.1 61.7#

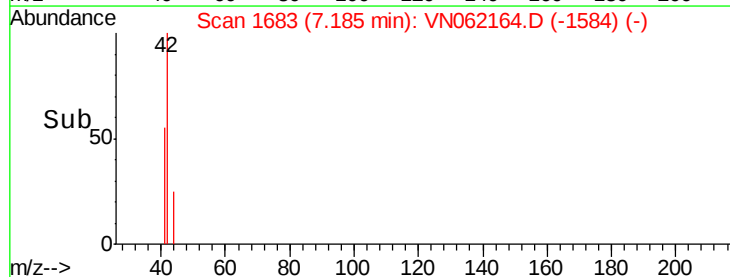
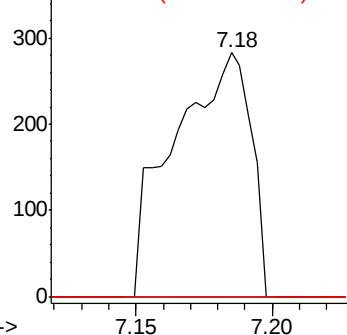
71 0.0 38.2 57.4#

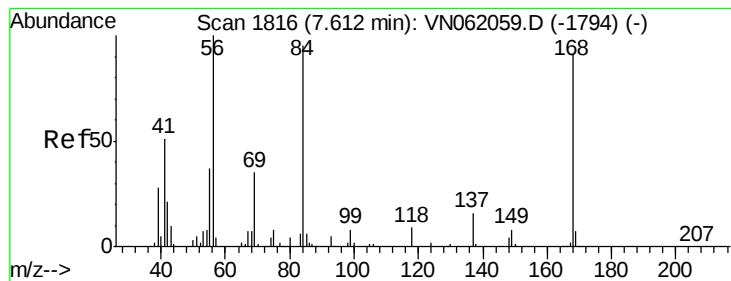


Abundance Ion 42.00 (41.70 to 42.70): VN062059.D (-1647) (-)

Ion 72.00 (71.70 to 72.70): VN062059.D (-1647) (-)

Ion 71.00 (70.70 to 71.70): VN062059.D (-1647) (-)





#31

Cyclohexane

Concen: 1.181 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

Instrument :

MSVOA_N

ClientSampled :

VNJ-242

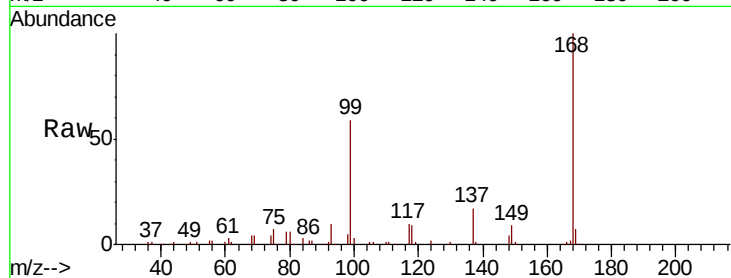
Tot Ion: 56 Resp: 4961

Ion Ratio Lower Upper

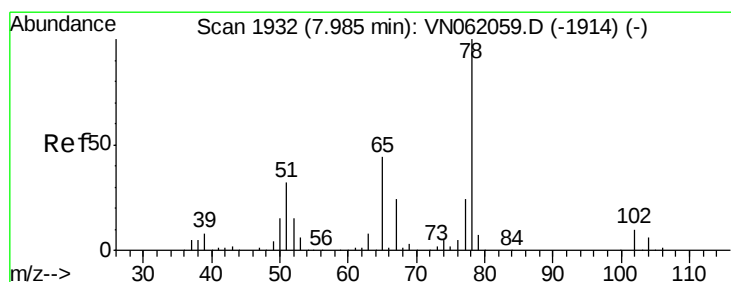
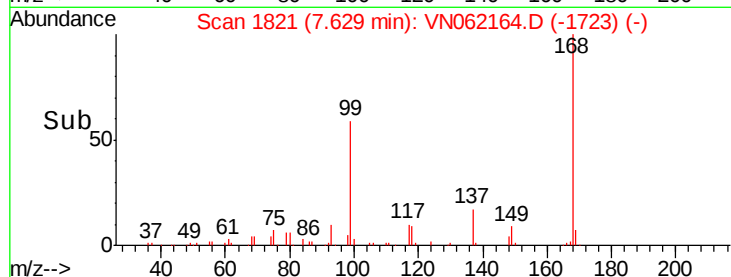
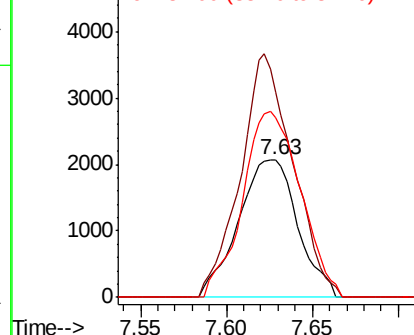
56 100

69 149.7 28.0 42.0#

84 130.7 76.1 114.1#



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



#33

1,2-Dichloroethane-d4

Concen: 49.951 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062164.D

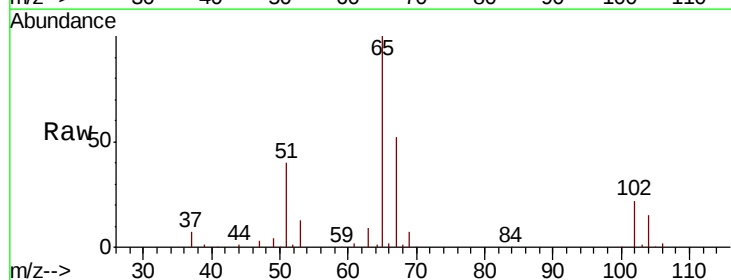
Acq: 27 Jun 2020 1:52

Tgt Ion: 65 Resp: 151844

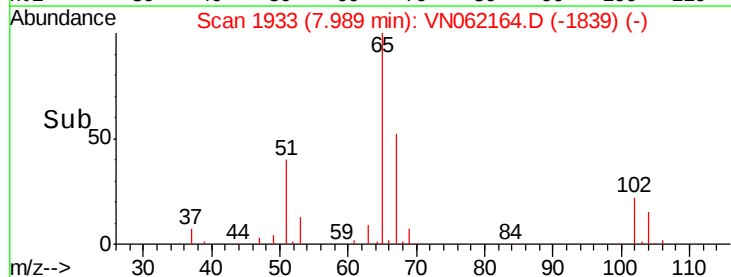
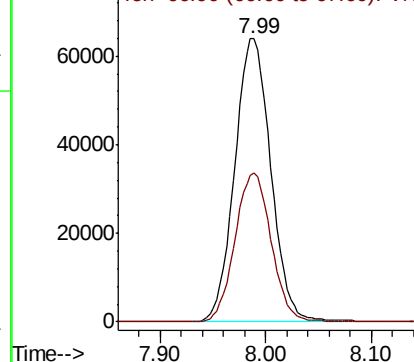
Ion Ratio Lower Upper

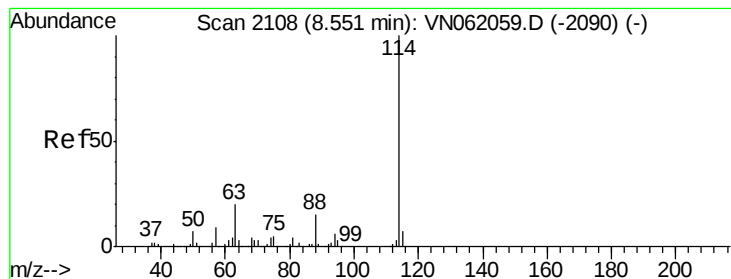
65 100

67 52.5 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

Instrument :

MSVOA_N

ClientSampleId :

VNJ-242

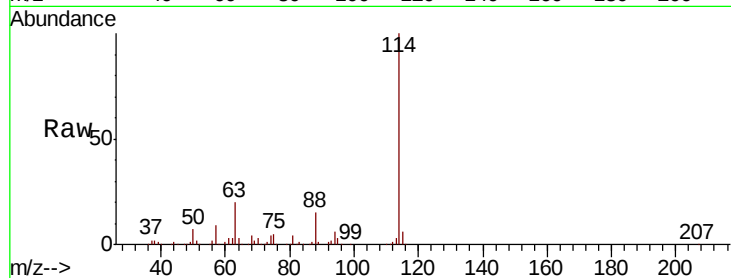
Tot Ion:114 Resp: 410689

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.2

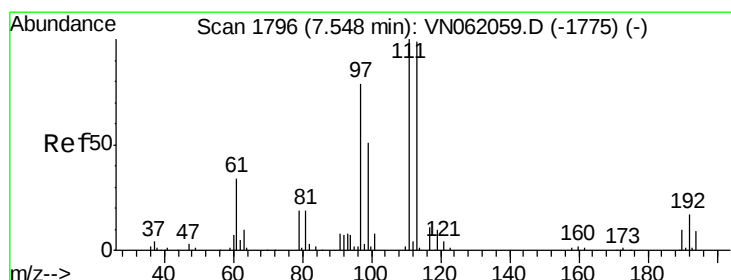
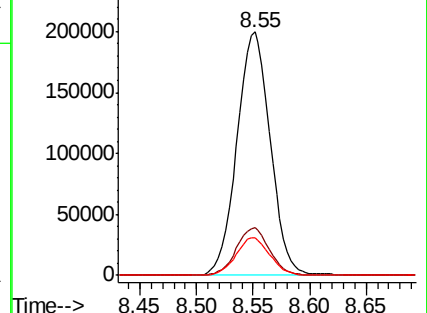
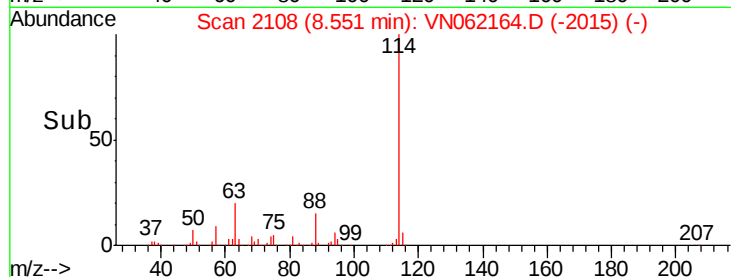
88 15.4 0.0 30.8



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: 49.141 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

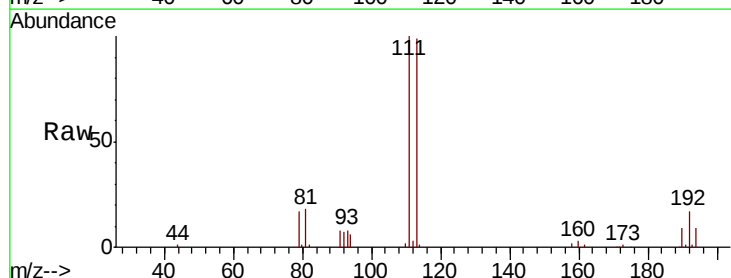
Tgt Ion:113 Resp: 129476

Ion Ratio Lower Upper

113 100

111 103.5 82.2 123.4

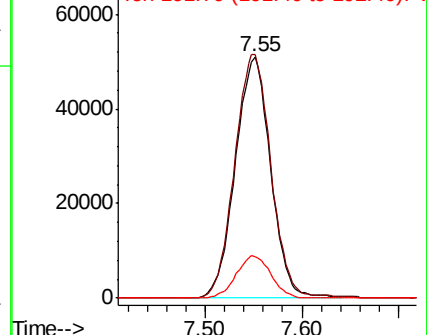
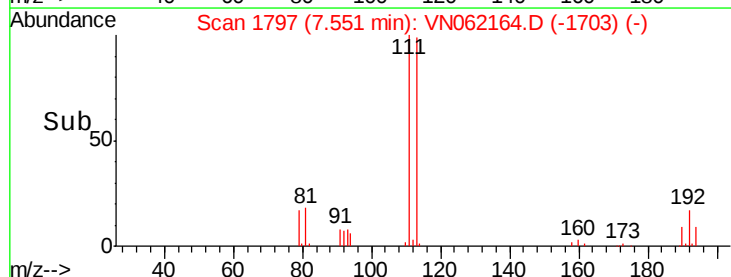
192 17.2 14.0 21.0

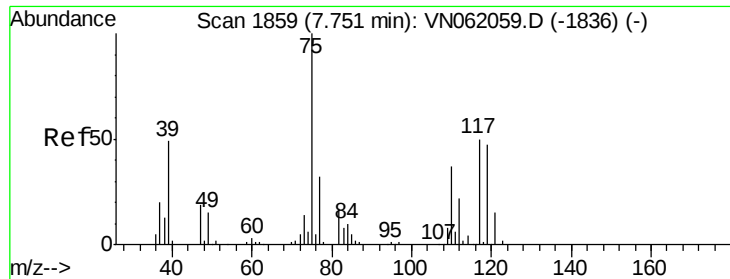


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.202 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

Instrument :

MSVOA_N

ClientSampleId :

VNJ-242

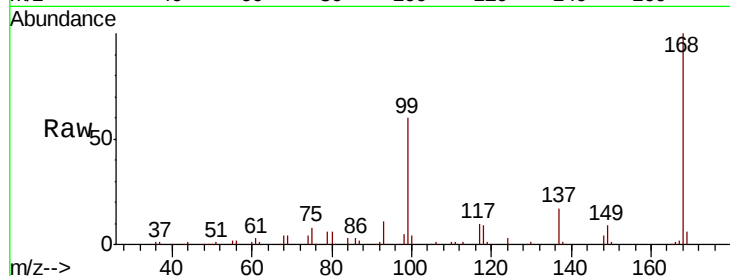
Tot Ion: 75 Resp: 17345

Ion Ratio Lower Upper

75 100

110 7.5 17.9 53.8#

77 0.0 24.9 37.3#



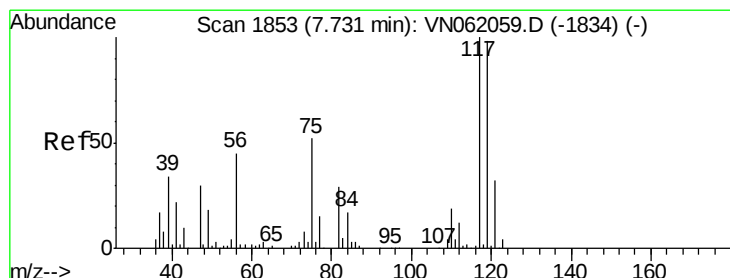
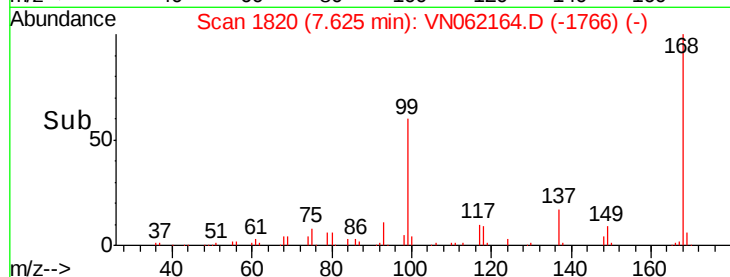
Abundance Ion 74.90 (74.60 to 75.60): VN062059.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN062059.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN062059.D (-1836) (-)

7.63

Time-->



#38

Carbon Tetrachloride

Concen: 5.675 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

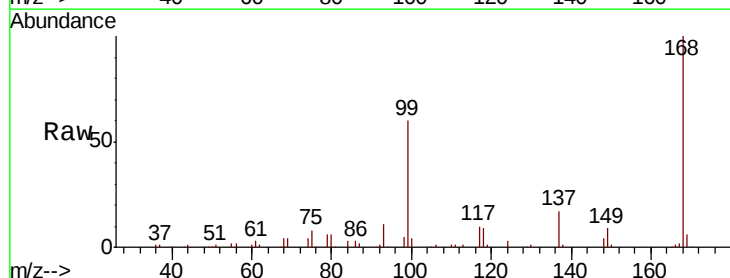
Tgt Ion: 117 Resp: 22085

Ion Ratio Lower Upper

117 100

119 5.1 78.2 117.2#

121 0.0 25.8 38.6#



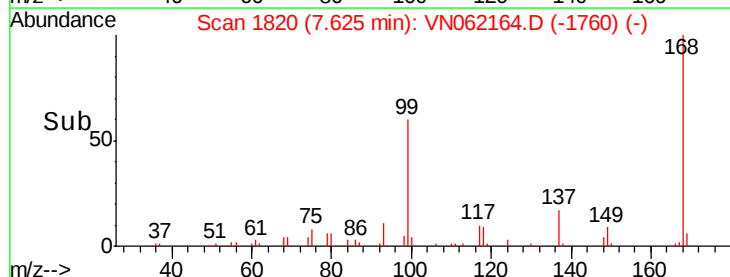
Abundance Ion 116.80 (116.50 to 117.50): VN062059.D (-1834) (-)

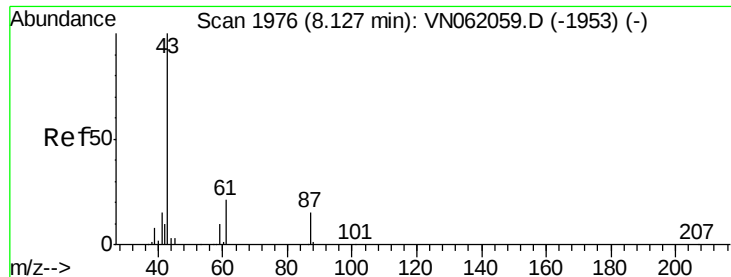
Ion 118.80 (118.50 to 119.50): VN062059.D (-1834) (-)

Ion 120.80 (120.50 to 121.50): VN062059.D (-1834) (-)

7.63

Time-->





#43

Isopropyl Acetate

Concen: 7.041 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

Instrument :

MSVOA_N

ClientSampleId :

VNJ-242

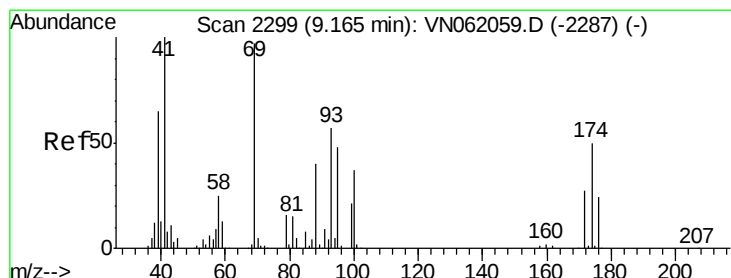
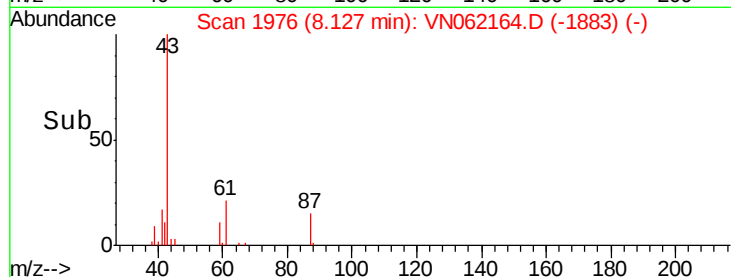
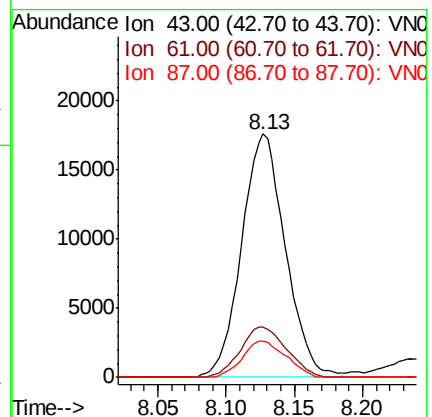
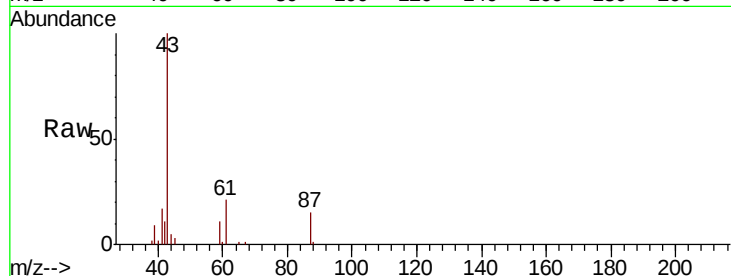
Tot Ion: 43 Resp: 39232

Ion Ratio Lower Upper

43 100

61 21.8 17.2 25.8

87 14.8 12.1 18.1



#48

Methyl methacrylate

Concen: 1.141 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

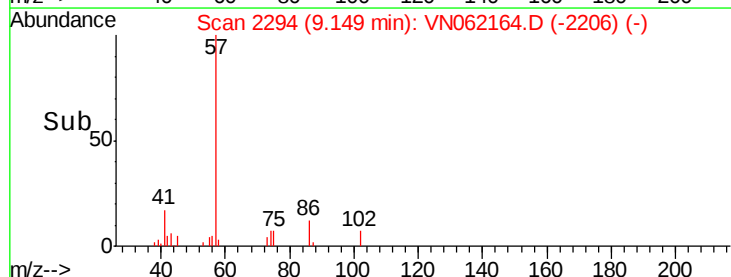
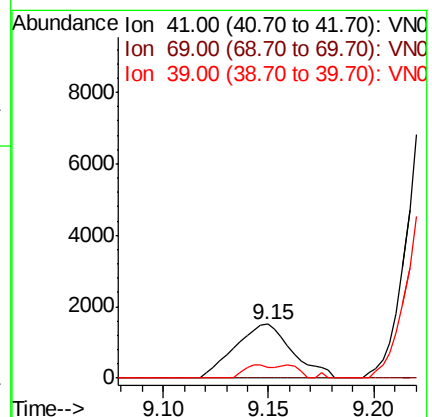
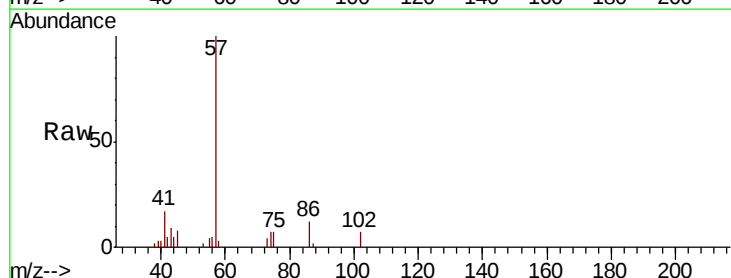
Tgt Ion: 41 Resp: 2850

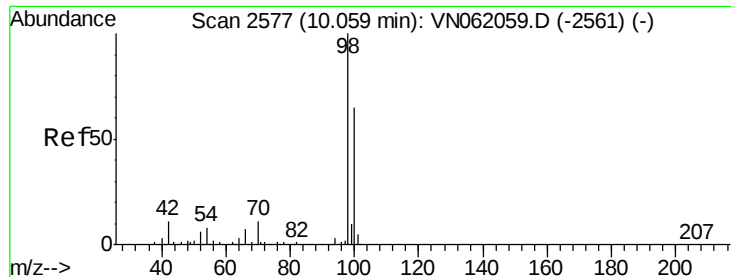
Ion Ratio Lower Upper

41 100

69 0.0 80.7 121.1#

39 0.0 54.5 81.7#





#50

Toluene-d8

Concen: 49.397 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

Instrument :

MSVOA_N

ClientSampled :

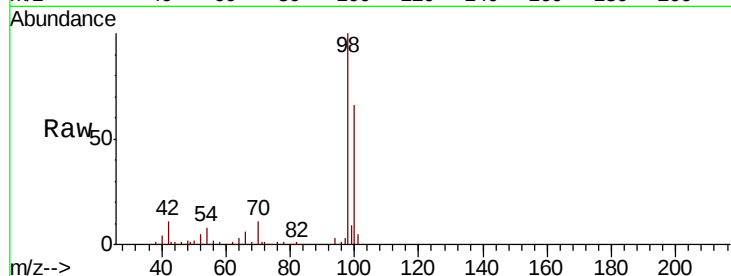
VNJ-242

Tot Ion: 98 Resp: 520251

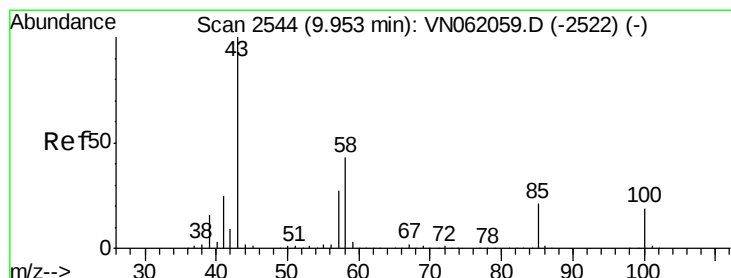
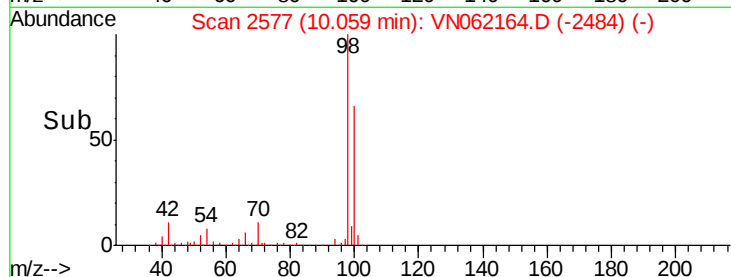
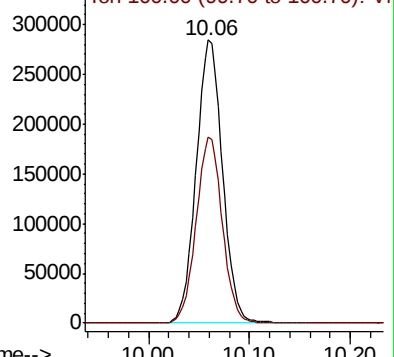
Ion Ratio Lower Upper

98 100

100 65.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062059.D (-2561) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.420 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN062164.D

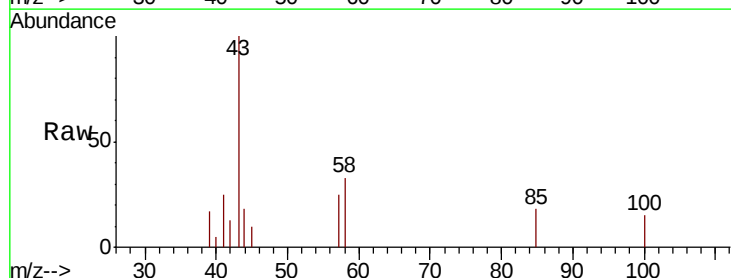
Acq: 27 Jun 2020 1:52

Tgt Ion: 43 Resp: 4624

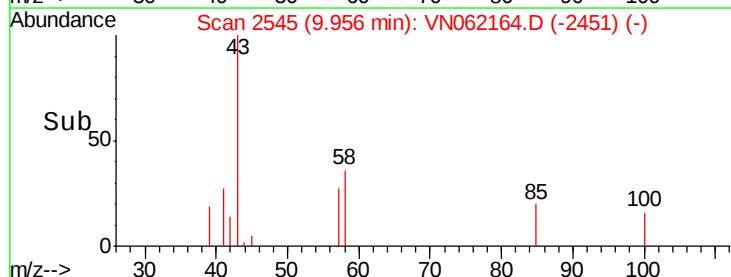
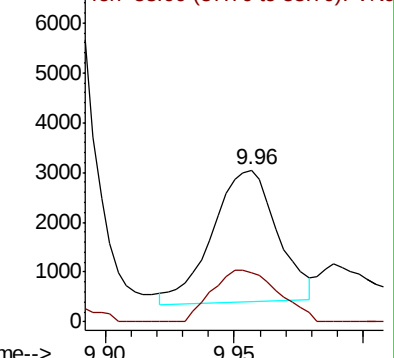
Ion Ratio Lower Upper

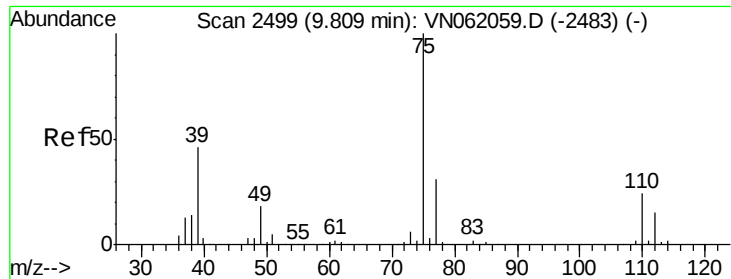
43 100

58 40.3 34.2 51.2



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-2522) (-)



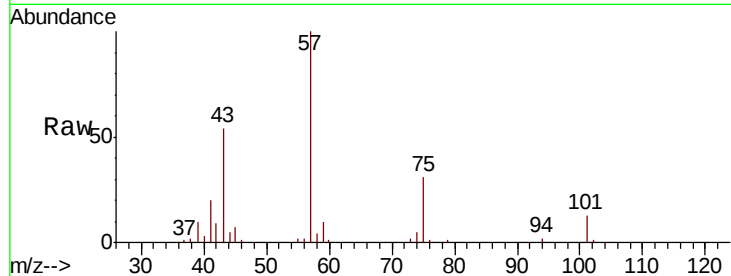


#54

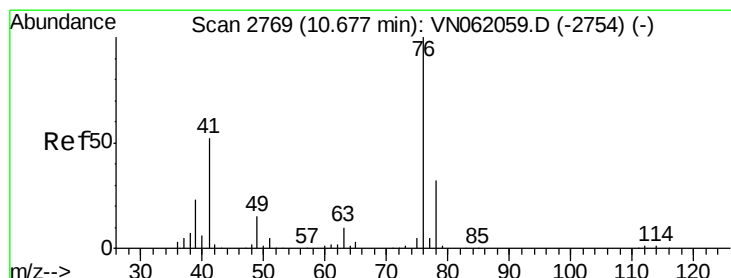
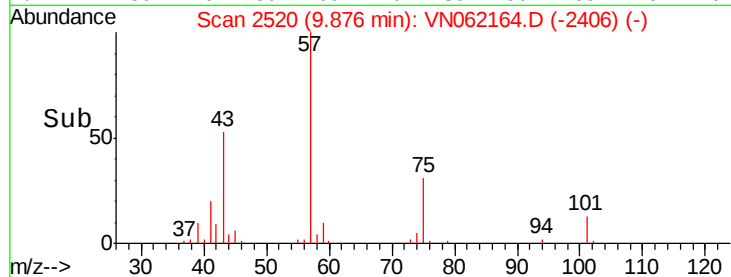
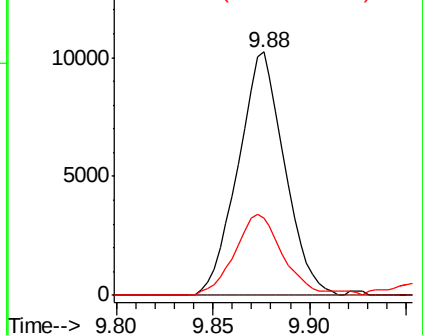
cis-1,3-Dichloropropene
 Concen: 3.444 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062164.D
 Acq: 27 Jun 2020 1:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-242

Tot Ion: 75 Resp: 17140
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 31.9 36.9 55.3#



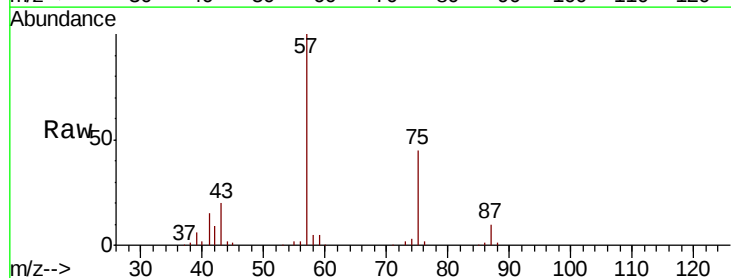
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



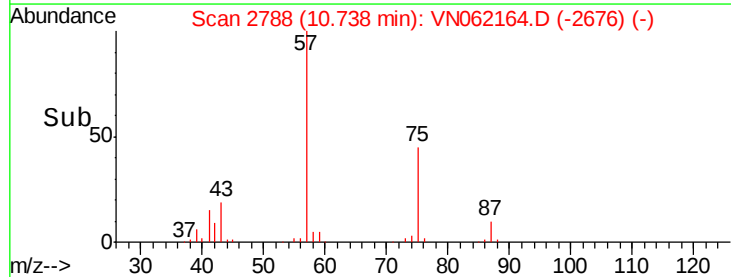
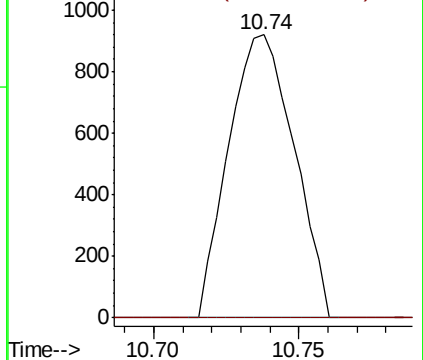
#57

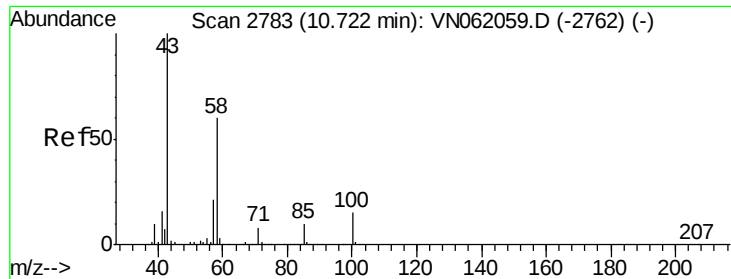
1,3-Dichloropropane
 Concen: 0.277 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062164.D
 Acq: 27 Jun 2020 1:52

Tgt Ion: 76 Resp: 1441
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



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

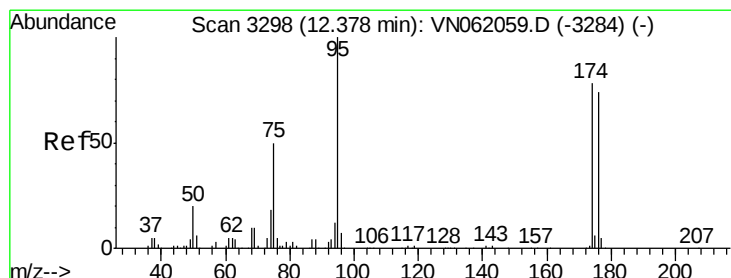
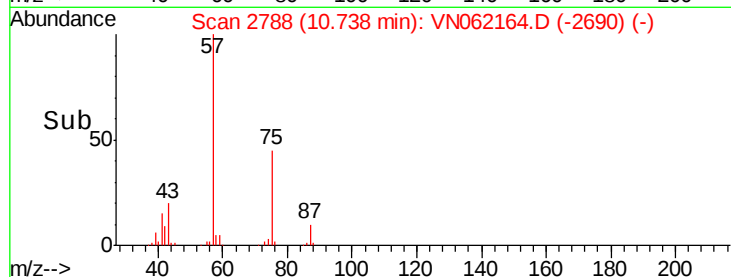
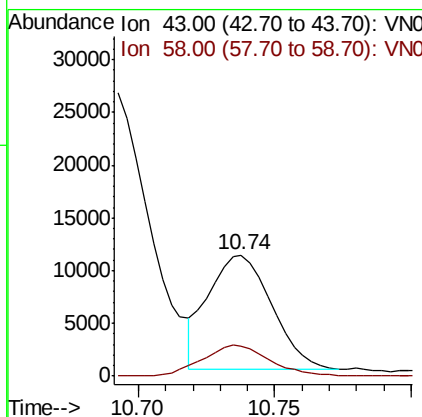
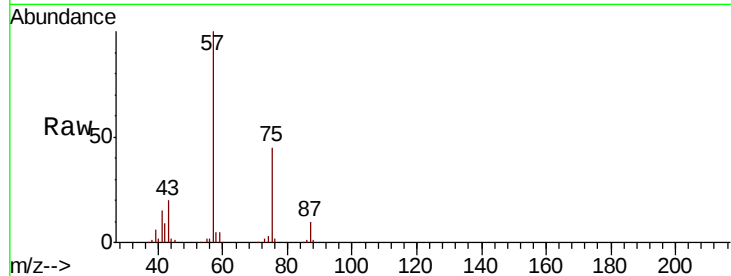




#59
2-Hexanone
Concen: 7.453 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062164.D
Acq: 27 Jun 2020 1:52

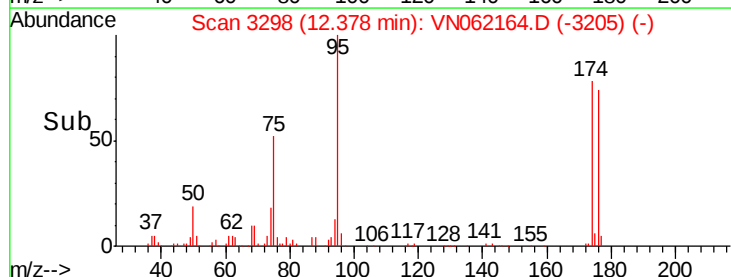
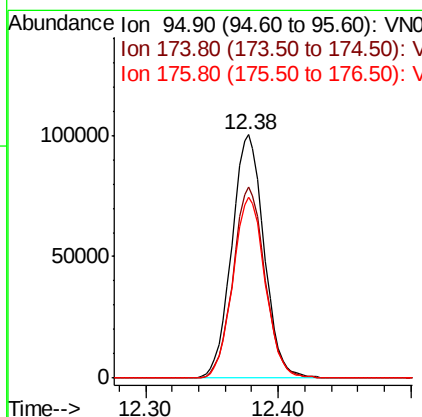
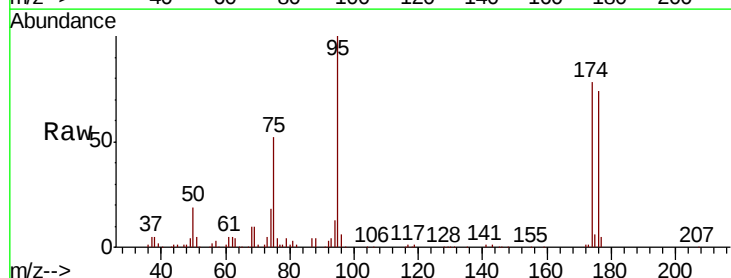
Instrument :
MSVOA_N
ClientSampled :
VNJ-242

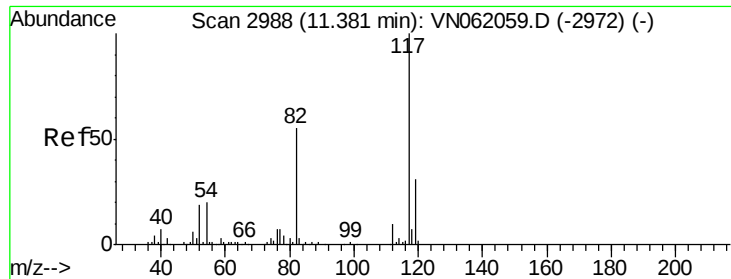
Tot Ion: 43 Resp: 17522
Ion Ratio Lower Upper
43 100
58 28.4 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 47.638 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062164.D
Acq: 27 Jun 2020 1:52

Tgt Ion: 95 Resp: 169511
Ion Ratio Lower Upper
95 100
174 77.8 0.0 154.8
176 74.4 0.0 147.4

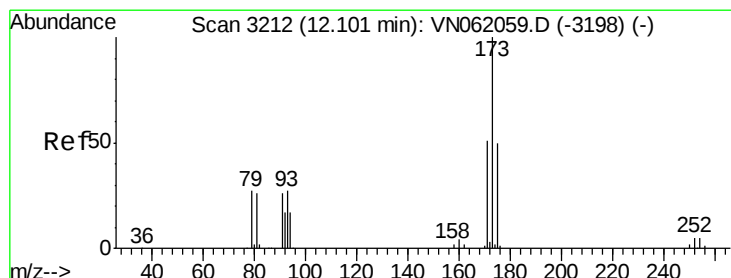
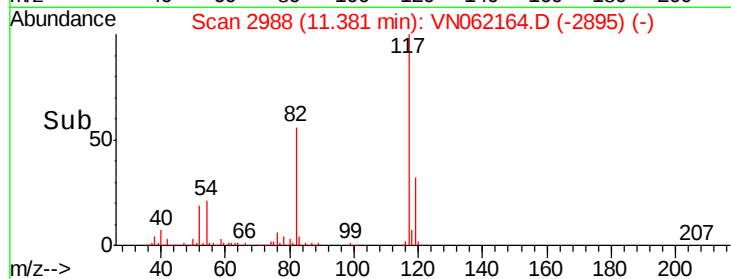
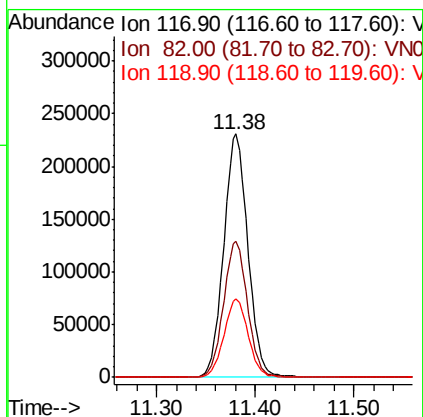
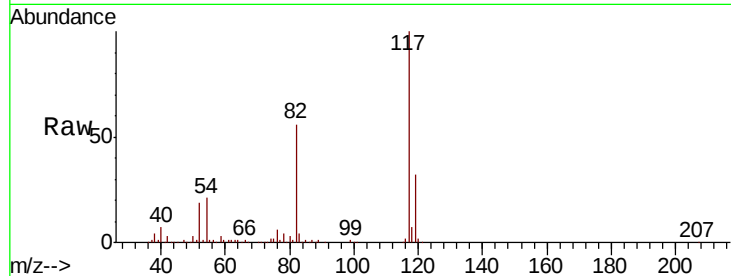




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062164.D
Acq: 27 Jun 2020 1:52

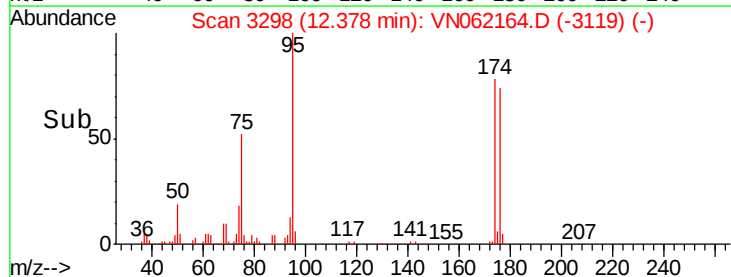
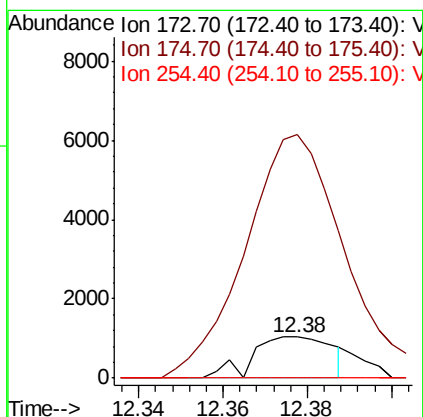
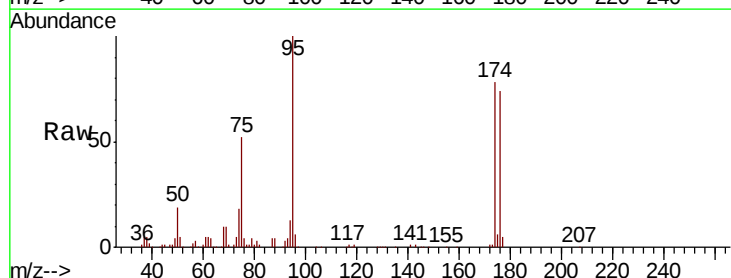
Instrument :
MSVOA_N
ClientSampleId :
VNJ-242

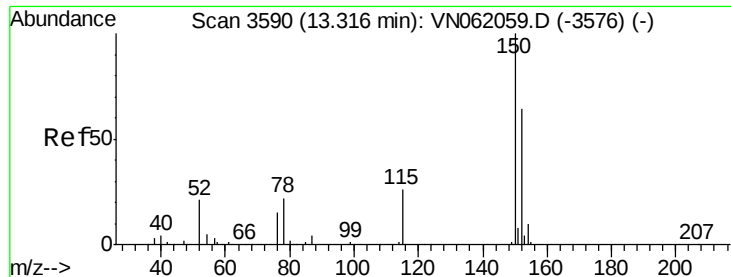
Tot Ion:117 Resp: 397808
Ion Ratio Lower Upper
117 100
82 55.9 43.8 65.8
119 32.2 25.2 37.8



#71
Bromoform
Concen: 0.640 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062164.D
Acq: 27 Jun 2020 1:52

Tgt Ion:173 Resp: 1374
Ion Ratio Lower Upper
173 100
175 619.8 24.7 74.1#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

Instrument :

MSVOA_N

ClientSampleId :

VNJ-242

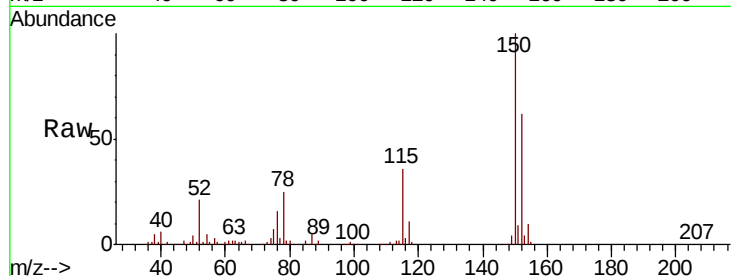
Tot Ion:152 Resp: 149594

Ion Ratio Lower Upper

152 100

115 58.7 29.5 88.5

150 158.5 0.0 351.4

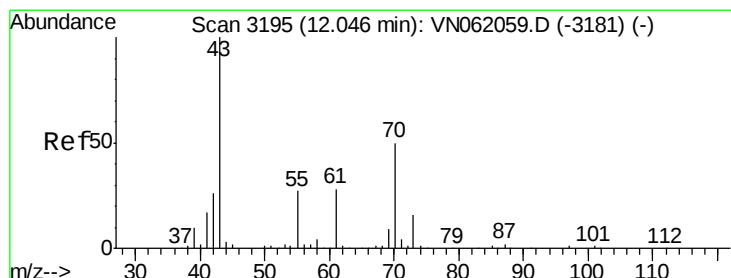
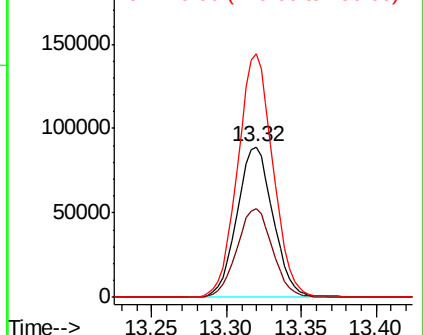
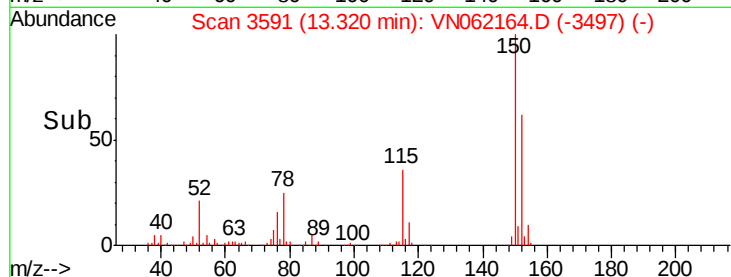


Abundance

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: 4.000 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

Tgt Ion: 43 Resp: 2999

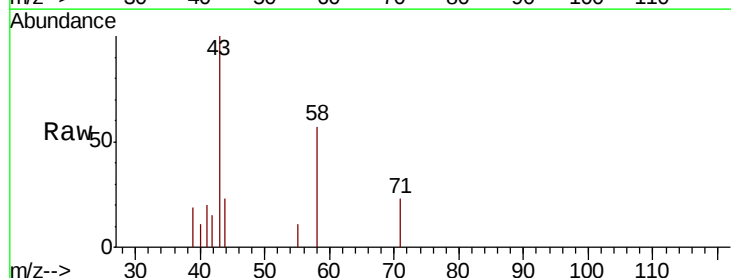
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 7.4 21.7 32.5#

61 0.0 21.3 31.9#



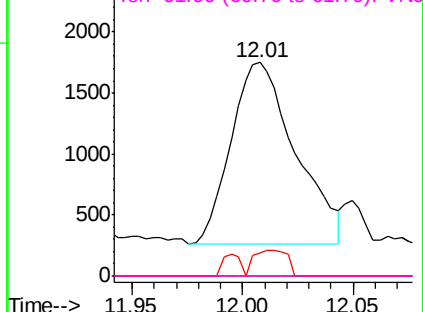
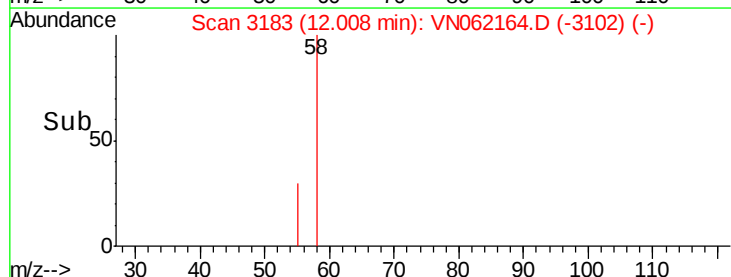
Abundance

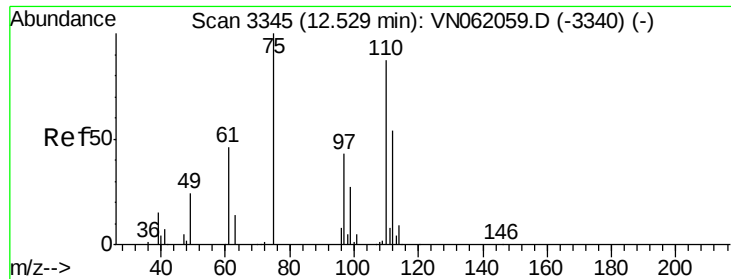
Ion 43.00 (42.70 to 43.70): V

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: 24.604 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

Instrument :

MSVOA_N

ClientSampleId :

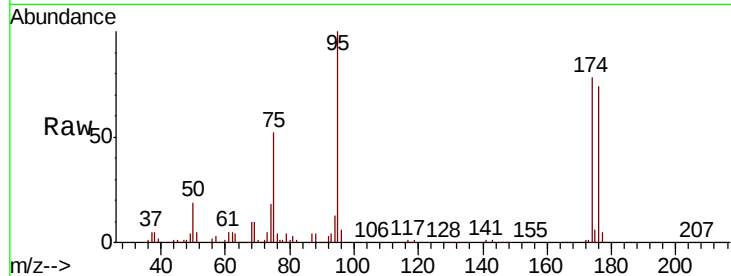
VNJ-242

Tot Ion: 75 Resp: 86644

Ion Ratio Lower Upper

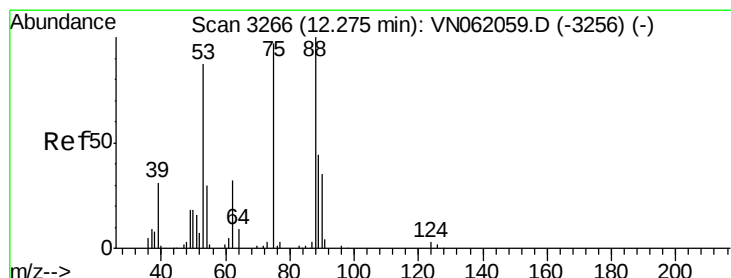
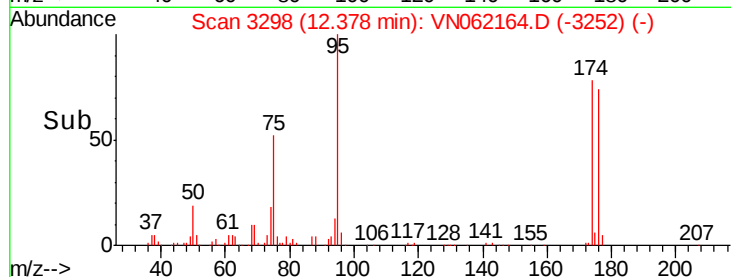
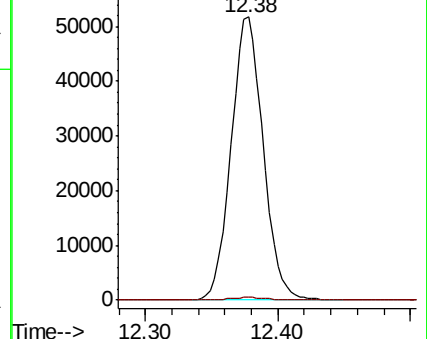
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 71.852 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

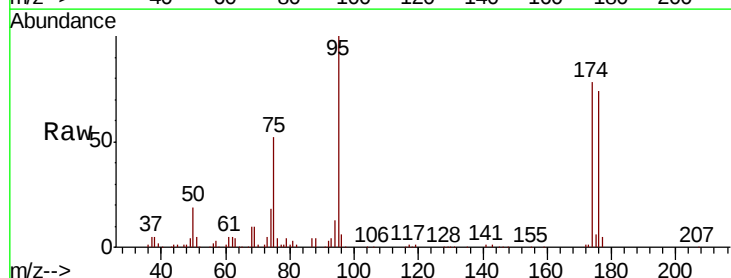
Tgt Ion: 75 Resp: 86644

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

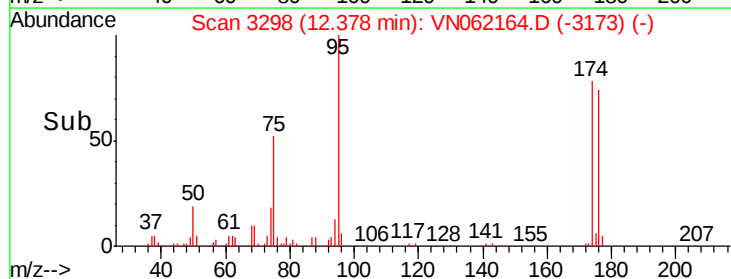
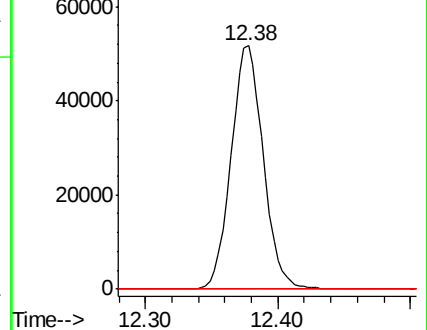
89 0.0 36.9 55.3#

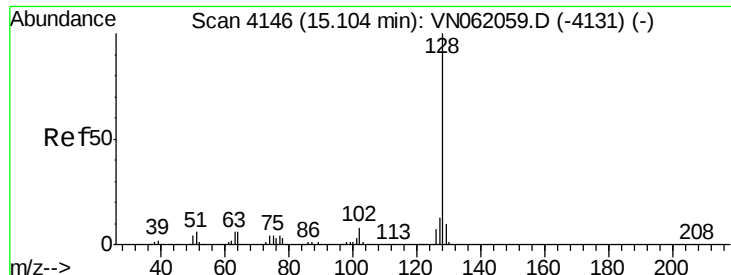


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 4.031 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062164.D

Acq: 27 Jun 2020 1:52

Instrument :

MSVOA_N

ClientSampleId :

VNJ-242

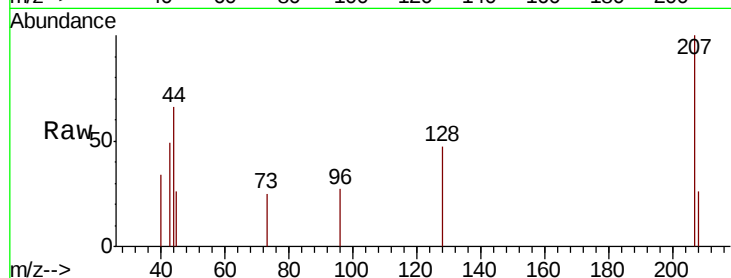
Tot Ion:128 Resp: 277

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

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

