

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072320\
 Data File : VX017525.D
 Acq On : 24 Jul 2020 04:54
 Operator : JC/SP
 Sample : L3380-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VNJ-221

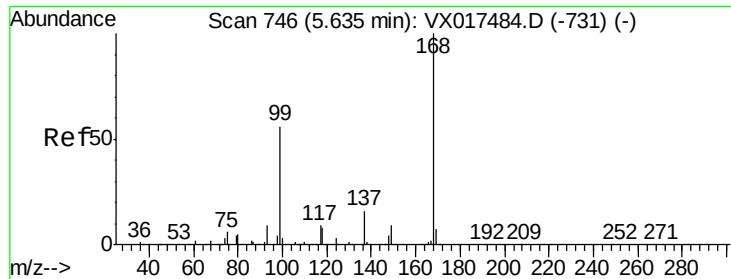
Quant Time: Jul 24 06:08:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	509179	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	856973	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	957264	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	505089	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	354450	54.19	ug/l	0.00
Spiked Amount			Recovery	=	108.38%	
35) Dibromofluoromethane	5.47	113	292658	51.06	ug/l	0.00
Spiked Amount			Recovery	=	102.12%	
50) Toluene-d8	8.70	98	1104198	53.40	ug/l	0.00
Spiked Amount			Recovery	=	106.80%	
62) 4-Bromofluorobenzene	11.12	95	491472	59.39	ug/l	0.00
Spiked Amount			Recovery	=	118.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.17	85	476	Below Cal	#	42
3) Chloromethane	1.32	50	892	0.508	ug/l #	75
5) Bromomethane	1.61	94	222	Below Cal	#	5
6) Chloroethane	1.72	64	53	Below Cal	#	1
8) Diethyl Ether	2.17	74	2249	Below Cal		97
11) Tert butyl alcohol	3.02	59	15189	11.019	ug/l	98
13) Acrolein	2.29	56	1050	5.130	ug/l #	14
16) Acetone	2.42	43	120203	41.755	ug/l	98
18) Methyl Acetate	2.75	43	7700	1.136	ug/l #	83
20) Methylene Chloride	2.84	84	110476	19.595	ug/l	95
25) 2-Butanone	4.64	43	52592	12.860	ug/l	96
29) Tetrahydrofuran	5.10	42	1583	0.625	ug/l #	78
36) 1,1-Dichloropropene	5.63	75	37100	4.514	ug/l #	51
37) Ethyl Acetate	4.64	43	52592	5.848	ug/l #	70
38) Carbon Tetrachloride	5.64	117	51914	5.201	ug/l #	19
43) Isopropyl Acetate	6.42	43	146672	9.885	ug/l	99
48) Methyl methacrylate	7.85	41	198853	27.036	ug/l #	46
49) 1,4-Dioxane	7.71	88	109	0.773	ug/l #	22
51) 4-Methyl-2-Pentanone	8.59	43	140067	15.821	ug/l #	47
54) cis-1,3-Dichloropropene	8.60	75	57429	5.415	ug/l #	59
59) 2-Hexanone	9.48	43	17724	2.659	ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	246100	23.686	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	246100	59.685	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.98	75	333	2.680	ug/l #	23

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Instrument :

MSVOA_X

ClientSampleId :

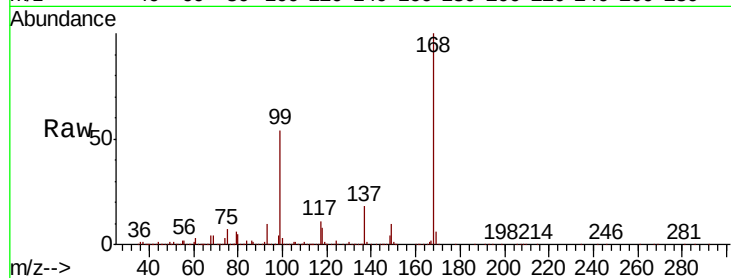
VNJ-221

Tot Ion:168 Resp: 509179

Ion Ratio Lower Upper

168 100

99 54.2 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

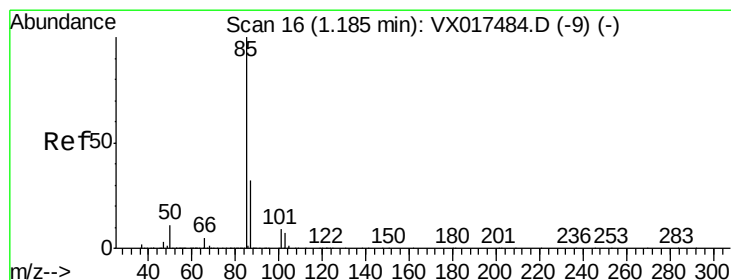
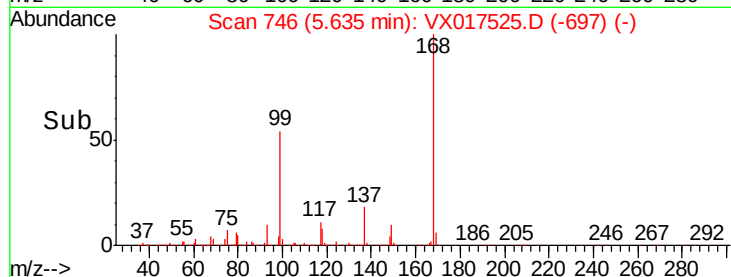
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.17 min Scan# 14

Delta R.T. -0.01 min

Lab File: VX017525.D

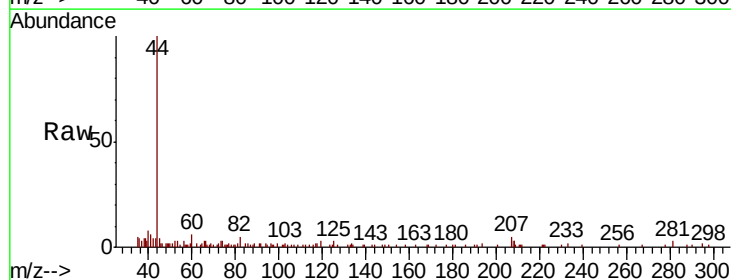
Acq: 24 Jul 2020 04:54

Tgt Ion: 85 Resp: 476

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.17

400

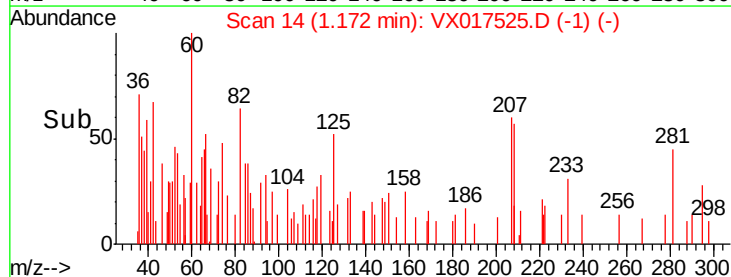
300

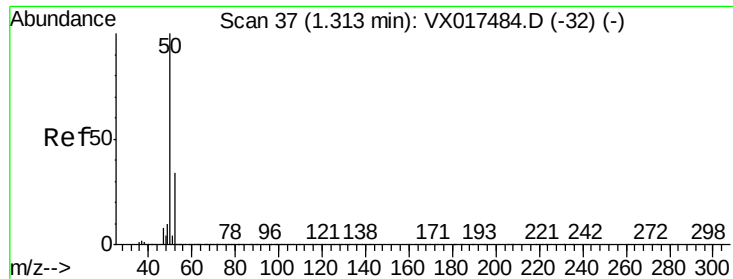
200

100

0

Time-->





#3

Chloromethane

Concen: 0.508 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Instrument :

MSVOA_X

ClientSampled :

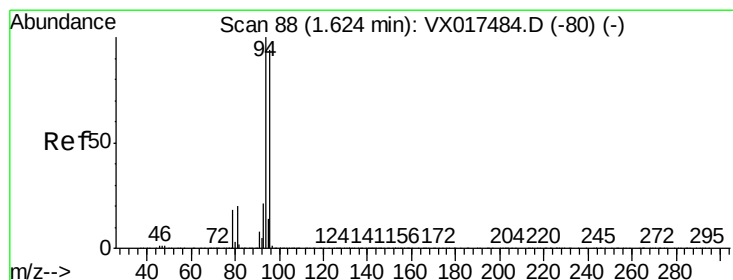
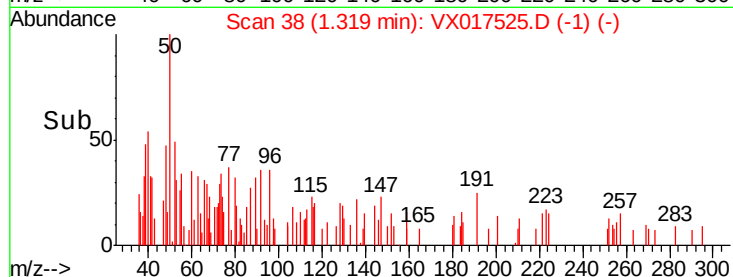
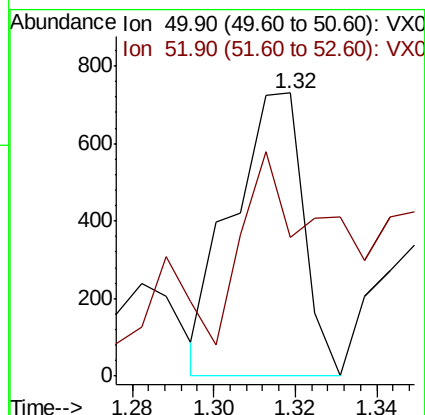
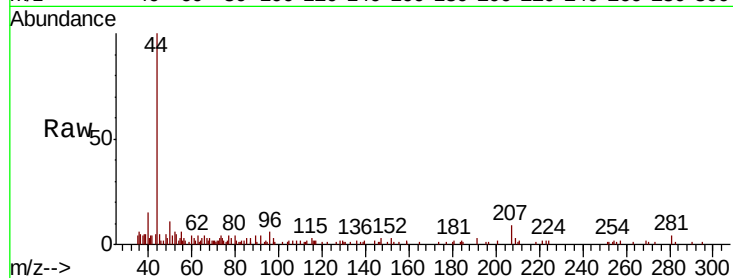
VNJ-221

Tot Ion: 50 Resp: 892

Ion Ratio Lower Upper

50 100

52 18.4 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 85

Delta R.T. -0.02 min

Lab File: VX017525.D

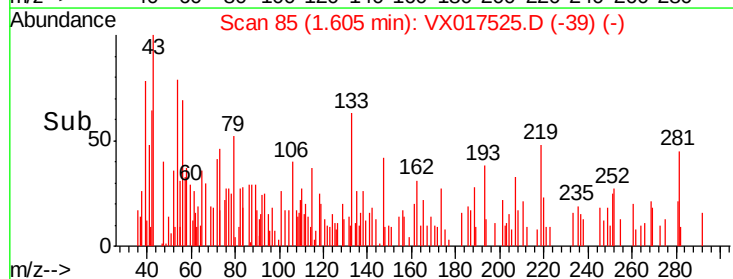
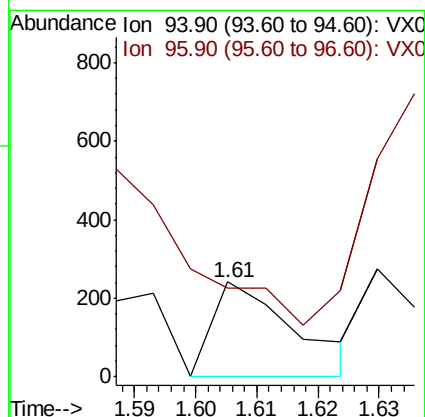
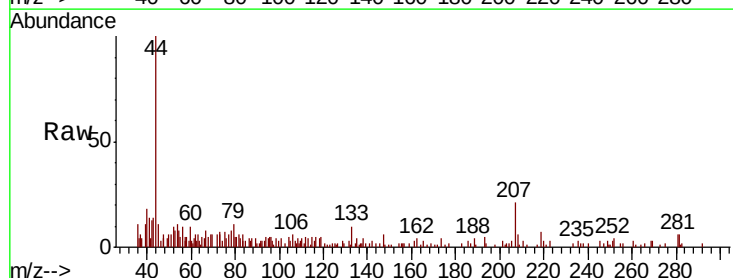
Acq: 24 Jul 2020 04:54

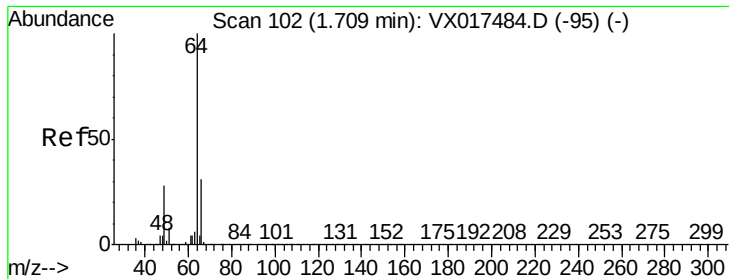
Tgt Ion: 94 Resp: 222

Ion Ratio Lower Upper

94 100

96 1.7 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Instrument :

MSVOA_X

ClientSampleId :

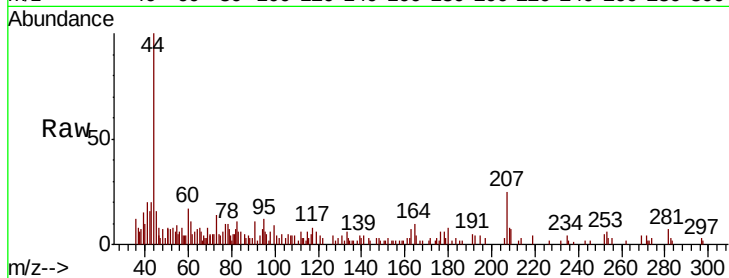
VNJ-221

Tot Ion: 64 Resp: 53

Ion Ratio Lower Upper

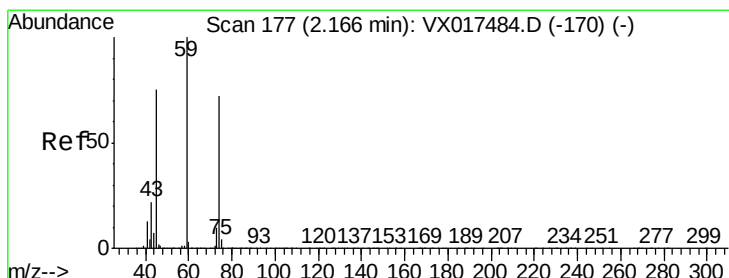
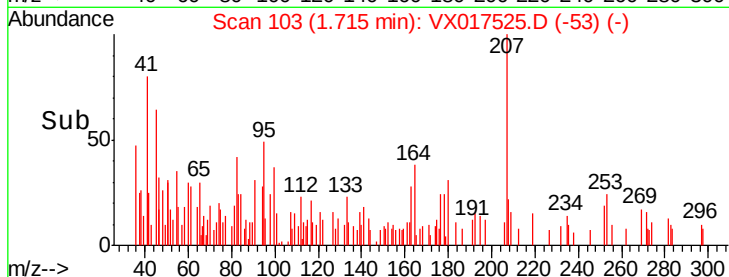
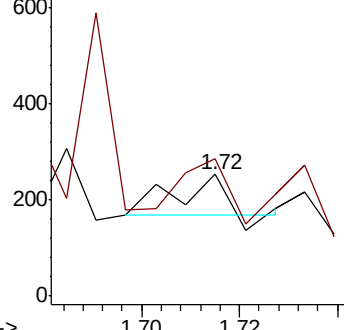
64 100

66 127.4 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017525.D

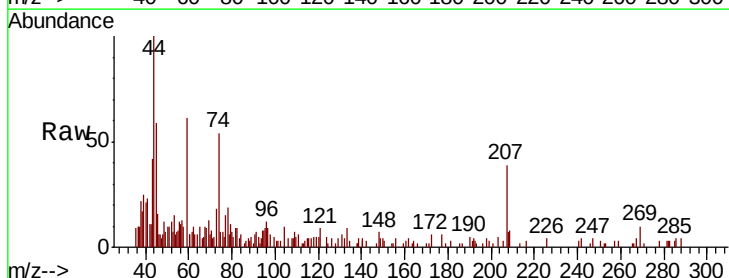
Acq: 24 Jul 2020 04:54

Tgt Ion: 74 Resp: 2249

Ion Ratio Lower Upper

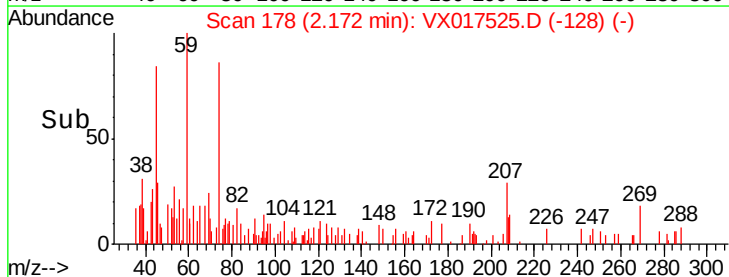
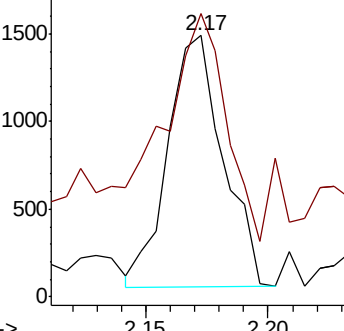
74 100

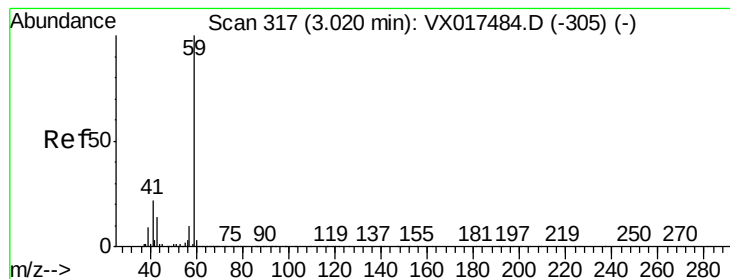
45 98.6 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



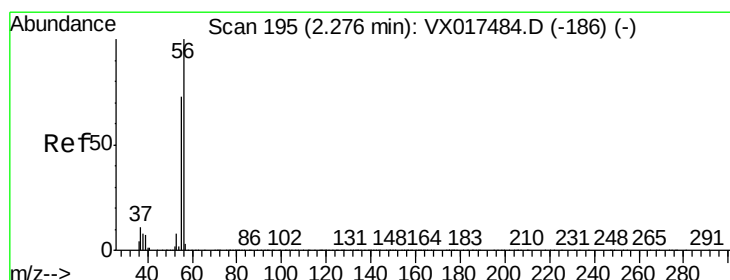
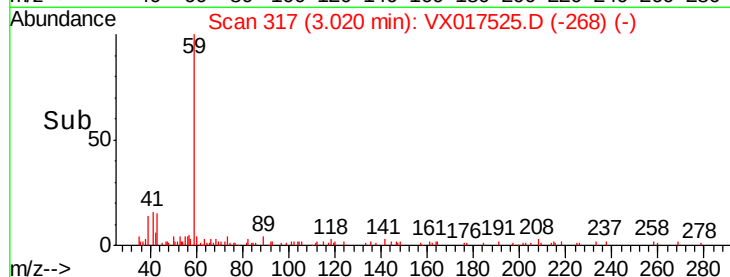
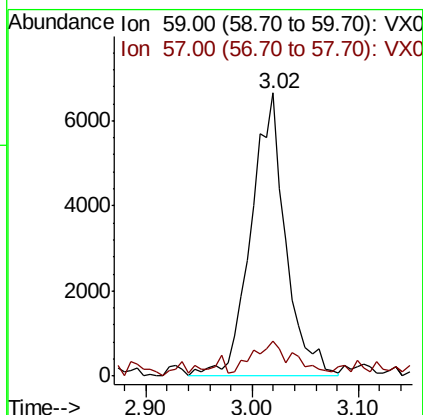
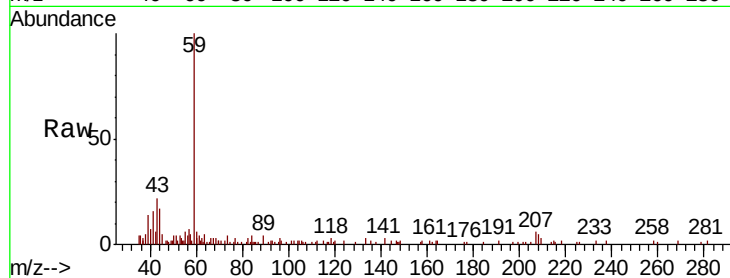


#11

Tert butyl alcohol
Concen: 11.019 ug/l
RT: 3.02 min Scan# 317
Delta R.T. -0.00 min
Lab File: VX017525.D
Acq: 24 Jul 2020 04:54

Instrument :
MSVOA_X
ClientSampleId :
VNJ-221

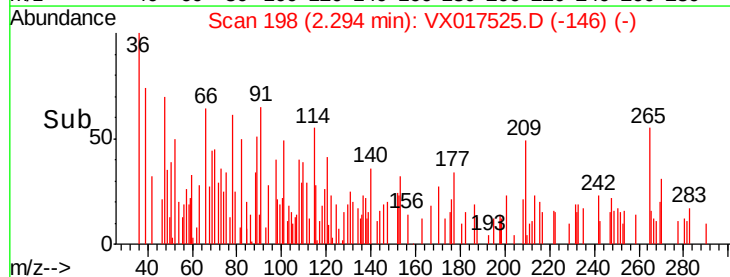
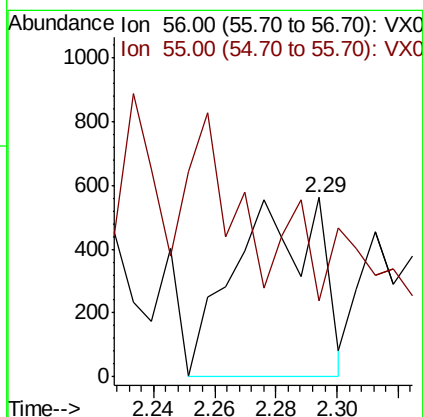
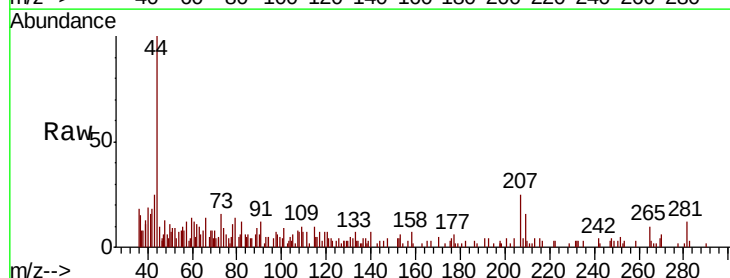
Tot Ion: 59 Resp: 15189
Ion Ratio Lower Upper
59 100
57 11.3 8.6 12.8

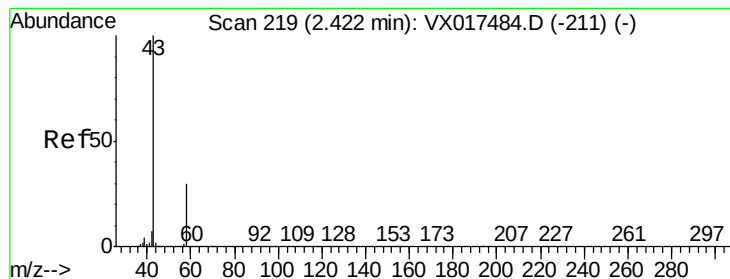


#13

Acrolein
Concen: 5.130 ug/l
RT: 2.29 min Scan# 198
Delta R.T. 0.02 min
Lab File: VX017525.D
Acq: 24 Jul 2020 04:54

Tgt Ion: 56 Resp: 1050
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.2#





#16

Acetone

Concen: 41.755 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Instrument :

MSVOA_X

ClientSampleId :

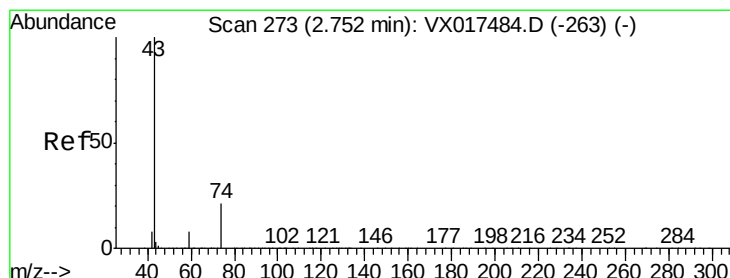
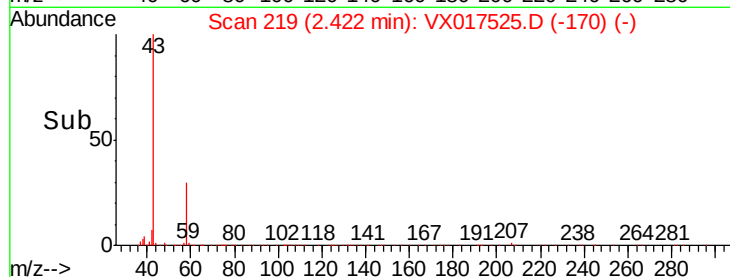
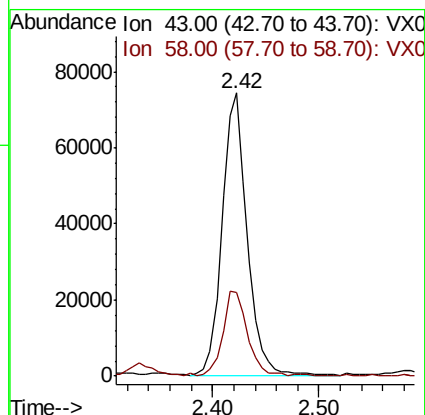
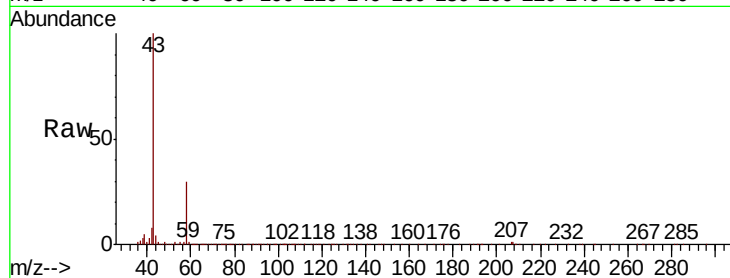
VNJ-221

Tot Ion: 43 Resp: 120203

Ion Ratio Lower Upper

43 100

58 29.4 24.2 36.4



#18

Methyl Acetate

Concen: 1.136 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX017525.D

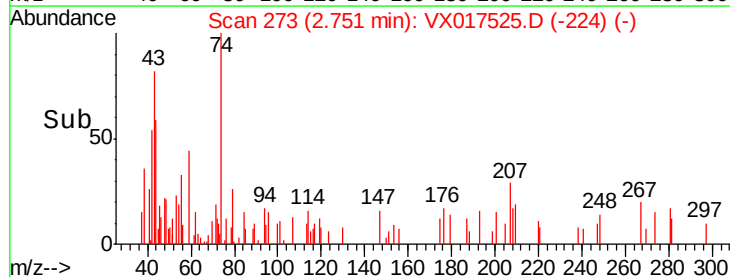
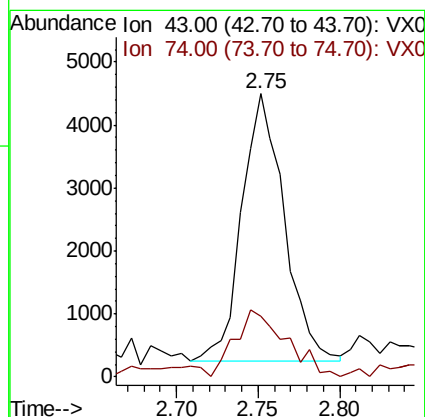
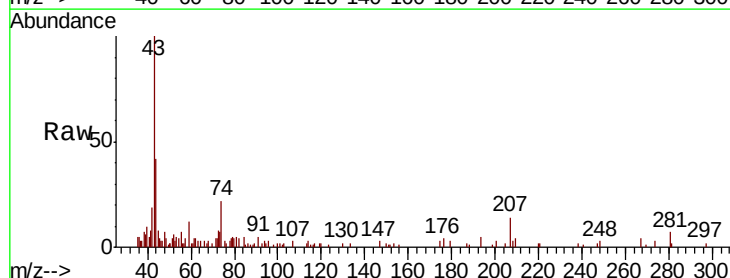
Acq: 24 Jul 2020 04:54

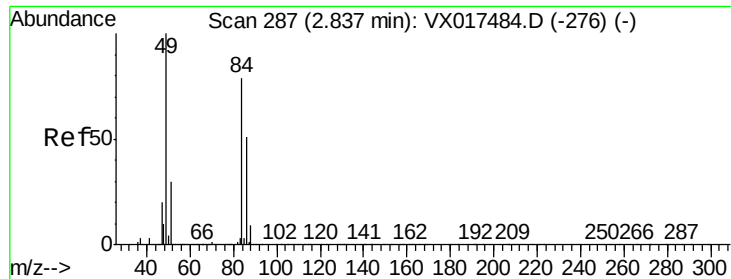
Tgt Ion: 43 Resp: 7700

Ion Ratio Lower Upper

43 100

74 30.1 17.5 26.3#

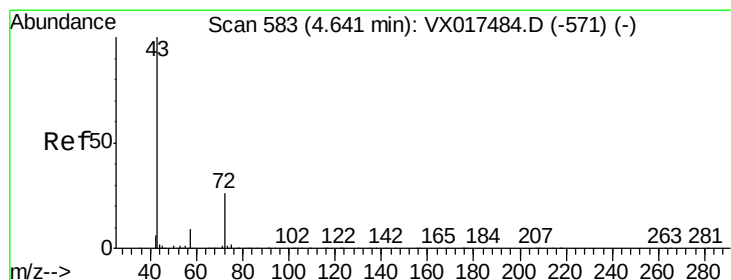
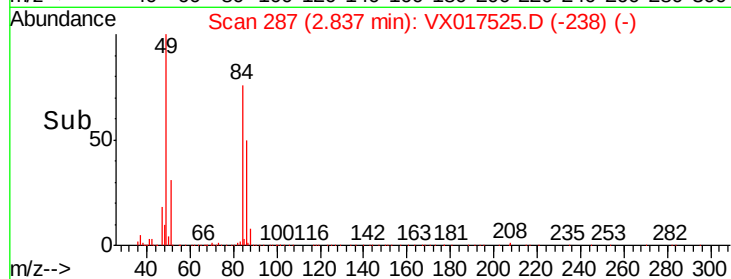
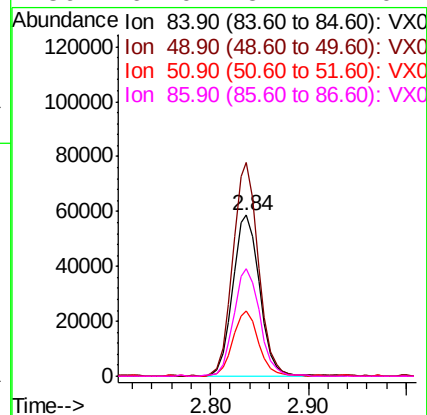
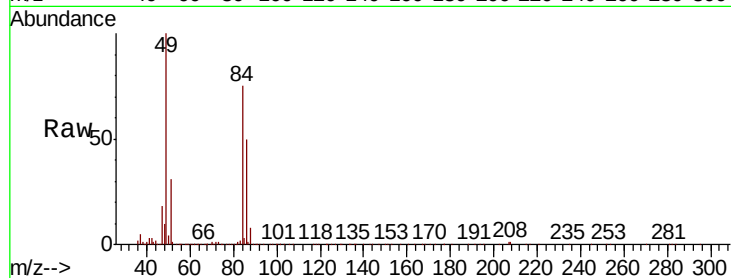




#20
Methylene Chloride
Concen: 19.595 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017525.D
Acq: 24 Jul 2020 04:54

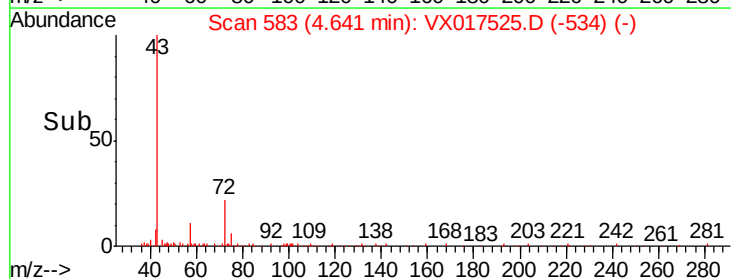
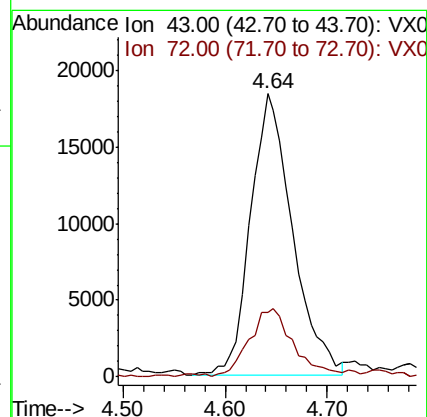
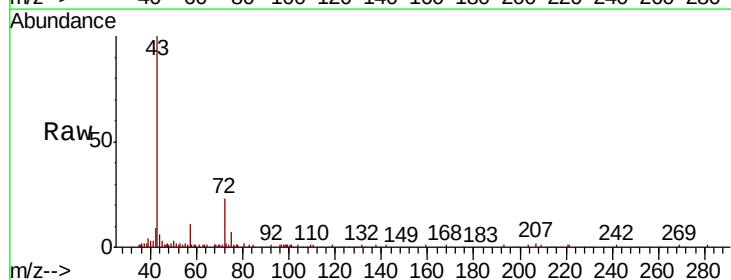
Instrument :
MSVOA_X
ClientSampleId :
VNJ-221

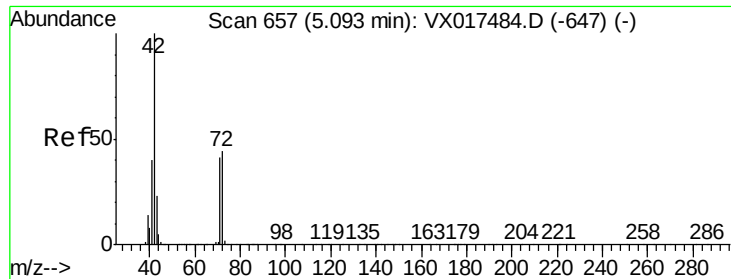
Tot Ion: 84 Resp: 110476
Ion Ratio Lower Upper
84 100
49 132.6 100.3 150.5
51 41.0 30.5 45.7
86 67.0 51.1 76.7



#25
2-Butanone
Concen: 12.860 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.00 min
Lab File: VX017525.D
Acq: 24 Jul 2020 04:54

Tgt Ion: 43 Resp: 52592
Ion Ratio Lower Upper
43 100
72 21.9 19.0 28.4





#29

Tetrahydrofuran

Concen: 0.625 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Instrument :

MSVOA_X

ClientSampled :

VNJ-221

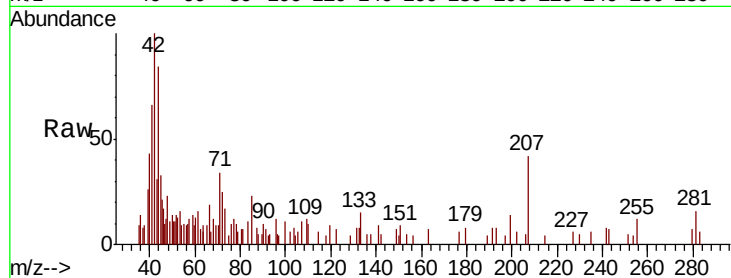
Tot Ion: 42 Resp: 1583

Ion Ratio Lower Upper

42 100

72 66.2 35.5 53.3#

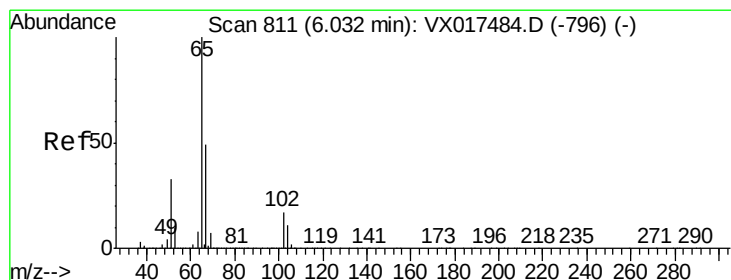
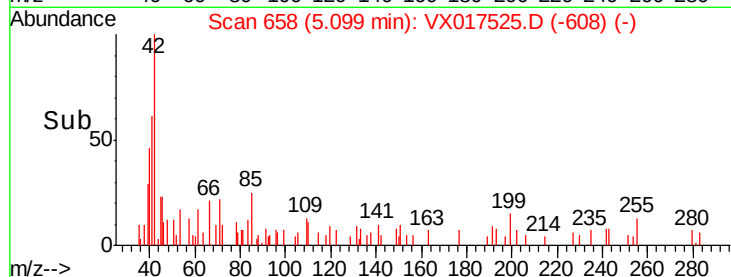
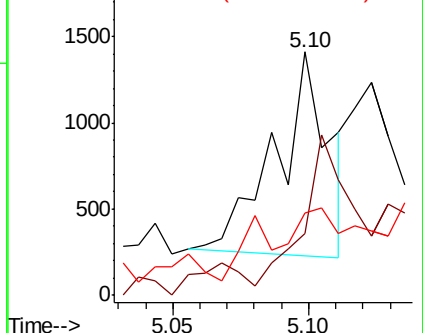
71 46.8 33.0 49.4



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.192 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017525.D

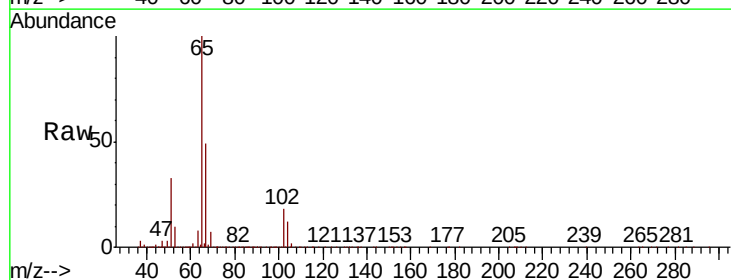
Acq: 24 Jul 2020 04:54

Tgt Ion: 65 Resp: 354450

Ion Ratio Lower Upper

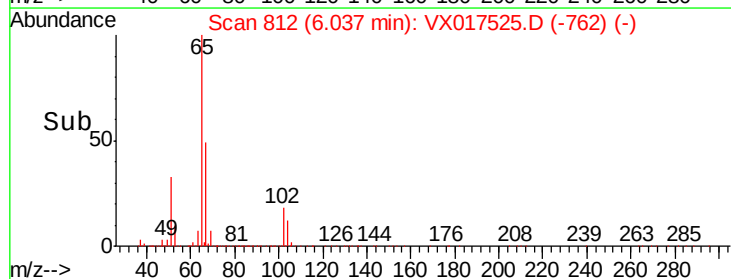
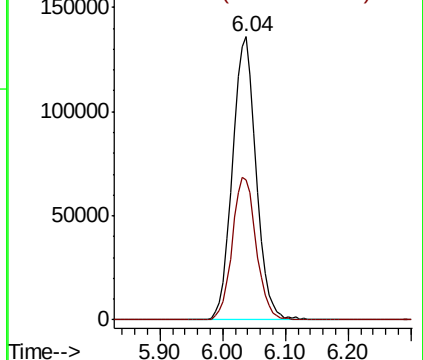
65 100

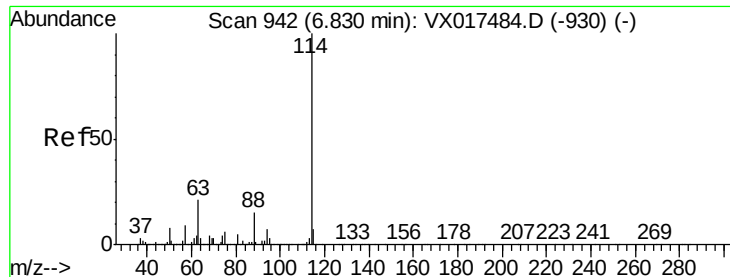
67 51.0 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Instrument :

MSVOA_X

ClientSampleId :

VNJ-221

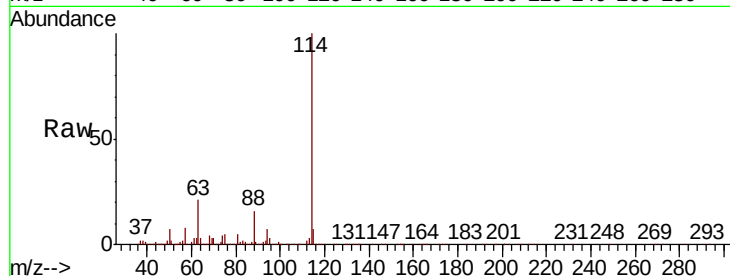
Tot Ion:114 Resp: 856973

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.6

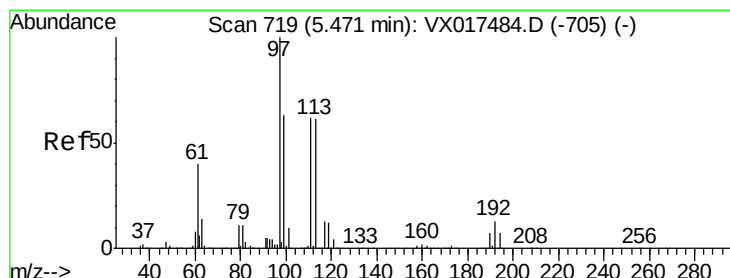
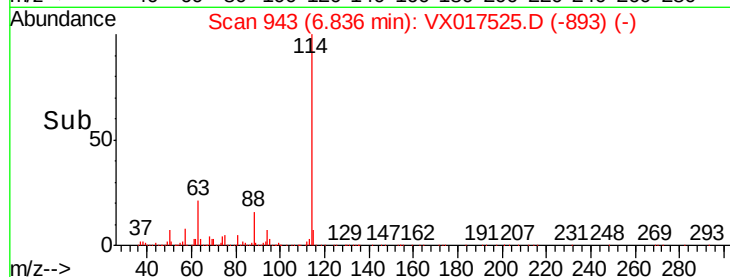
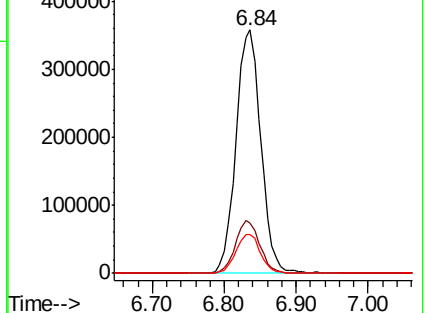
88 15.9 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 51.061 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

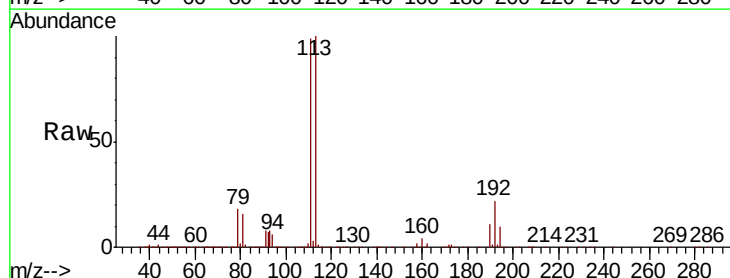
Tgt Ion:113 Resp: 292658

Ion Ratio Lower Upper

113 100

111 101.8 80.7 121.1

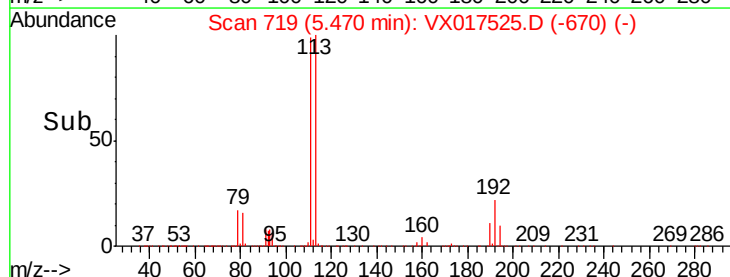
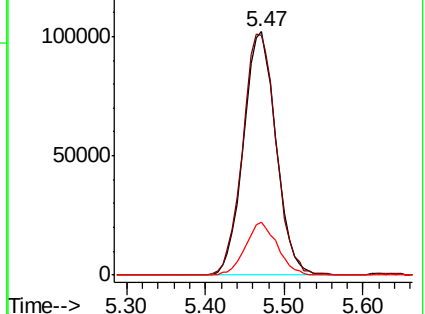
192 21.5 16.9 25.3

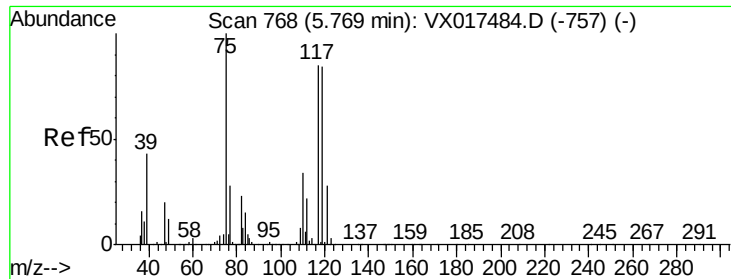


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

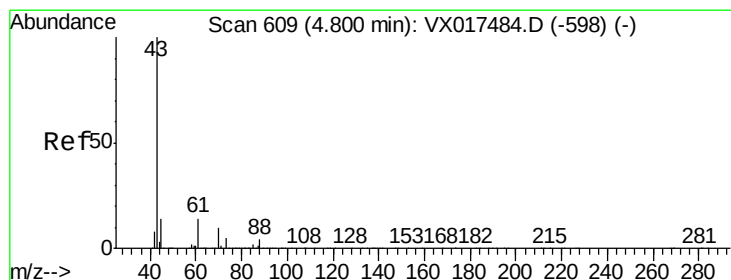
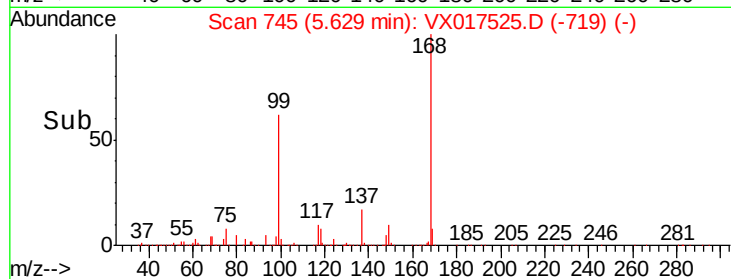
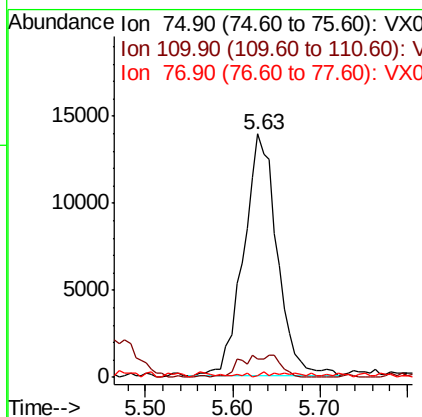
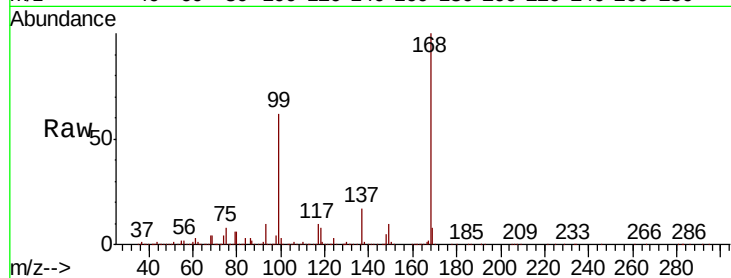




#36
 1,1-Dichloropropene
 Concen: 4.514 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017525.D
 Acq: 24 Jul 2020 04:54

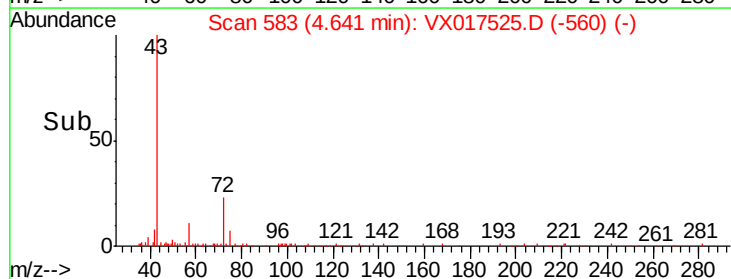
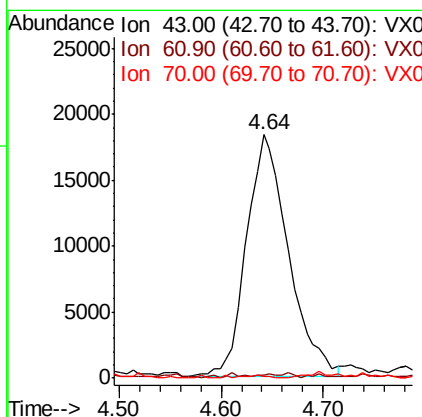
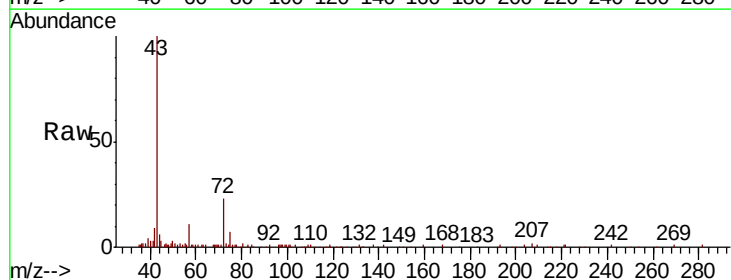
Instrument :
 MSVOA_X
 ClientSampleId :
 VNJ-221

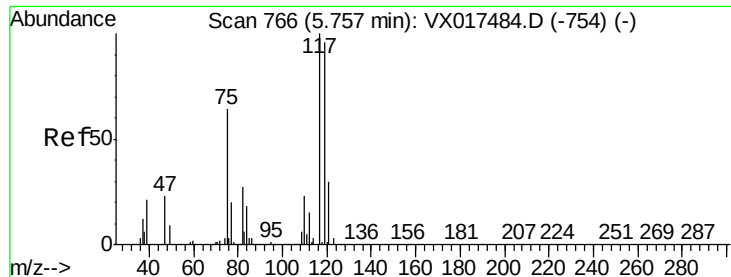
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.9	18.1	54.3#
77	0.5	24.6	37.0#



#37
 Ethyl Acetate
 Concen: 5.848 ug/l
 RT: 4.64 min Scan# 583
 Delta R.T. -0.16 min
 Lab File: VX017525.D
 Acq: 24 Jul 2020 04:54

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.6	10.7	16.1#
70	0.6	8.5	12.7#





#38

Carbon Tetrachloride

Concen: 5.201 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Instrument :

MSVOA_X

ClientSampleId :

VNJ-221

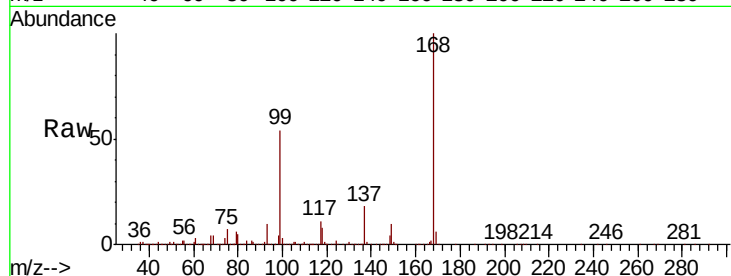
Tot Ion:117 Resp: 51914

Ion Ratio Lower Upper

117 100

119 8.0 75.4 113.0#

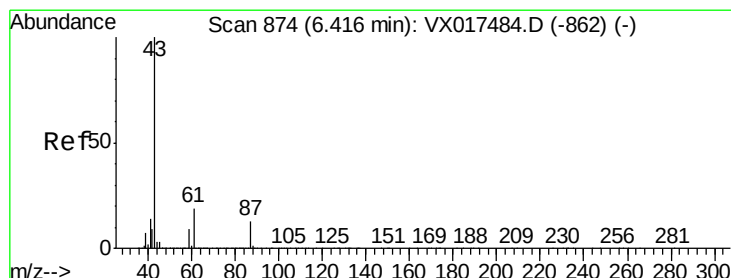
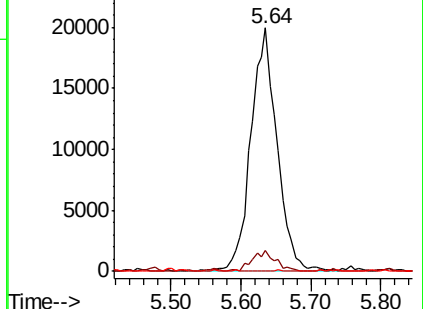
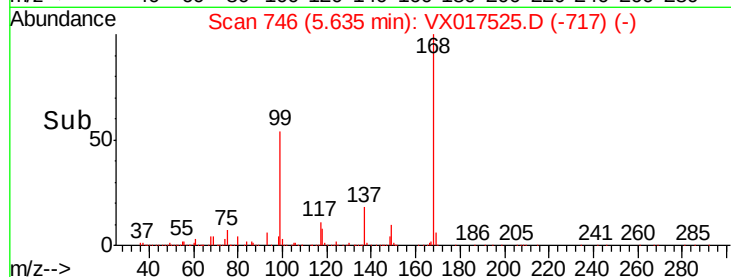
121 0.0 24.3 36.5#



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: 9.885 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

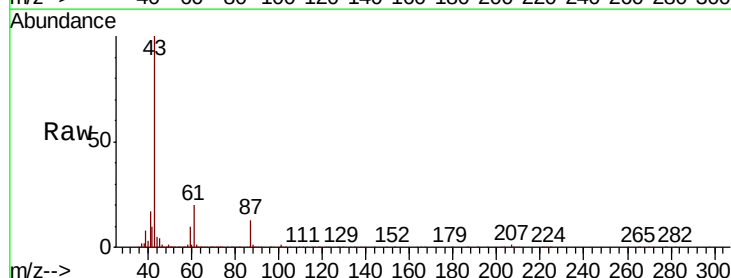
Tgt Ion: 43 Resp: 146672

Ion Ratio Lower Upper

43 100

61 19.7 15.5 23.3

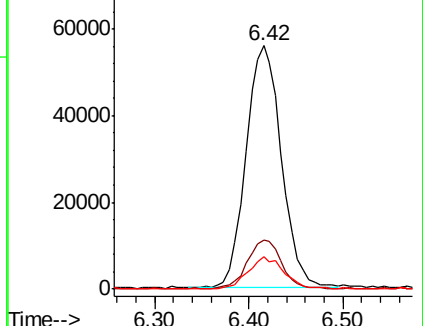
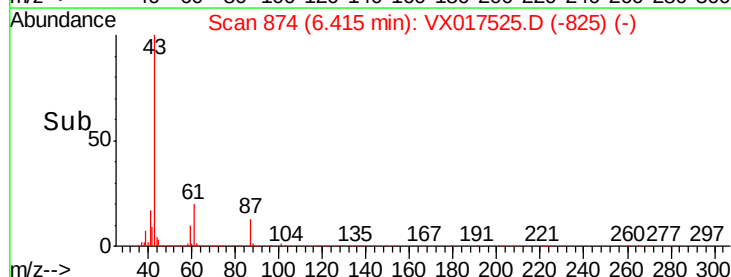
87 13.6 10.5 15.7

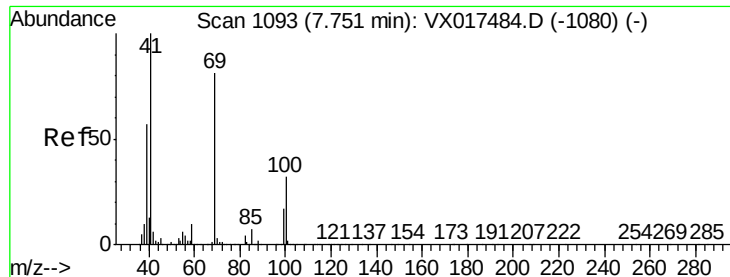


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 27.036 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.10 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Instrument :

MSVOA_X

ClientSampled :

VNJ-221

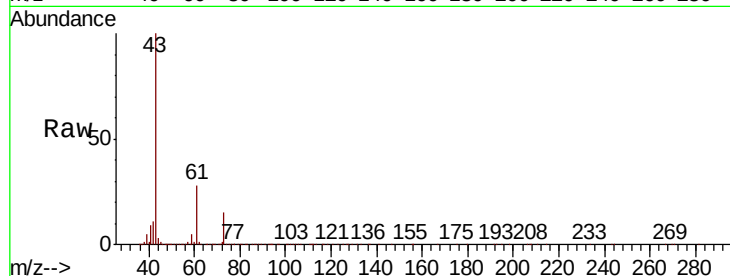
Tot Ion: 41 Resp: 198853

Ion Ratio Lower Upper

41 100

69 0.4 63.1 94.7#

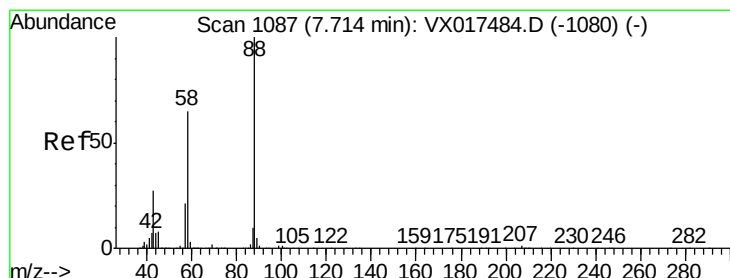
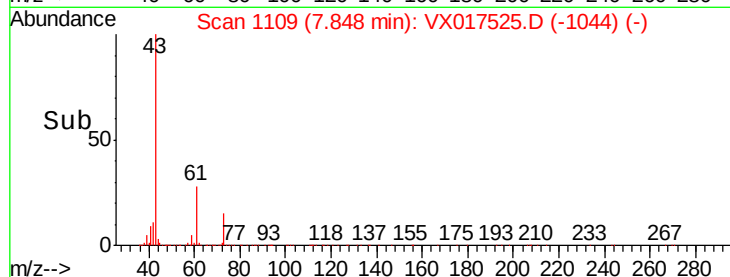
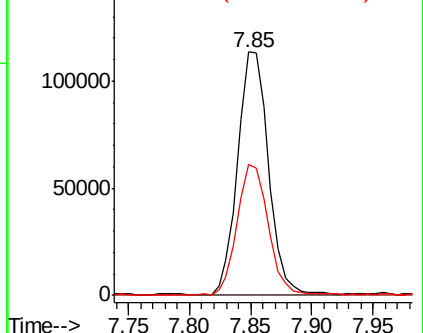
39 53.5 45.1 67.7



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 0.773 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

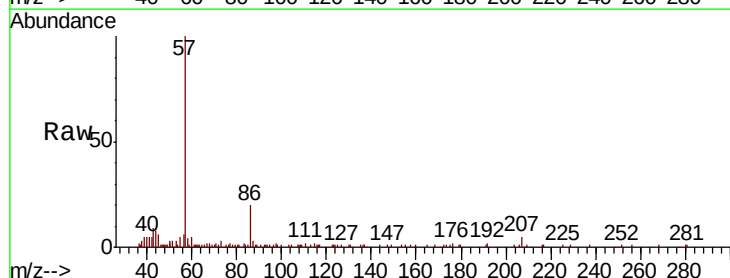
Tgt Ion: 88 Resp: 109

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

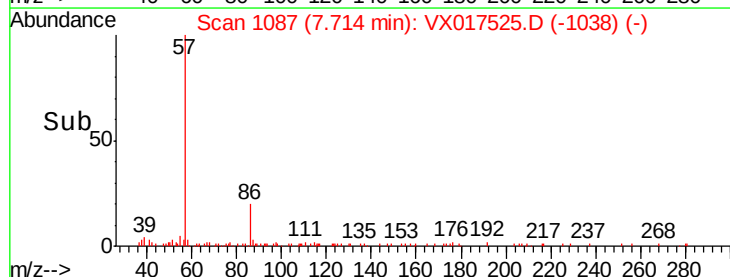
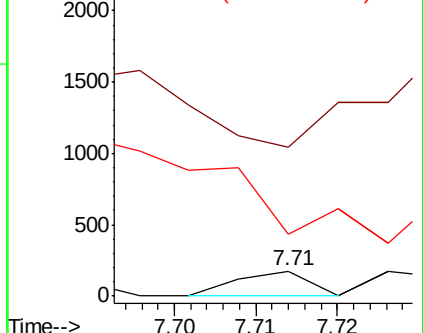
58 0.0 58.3 87.5#

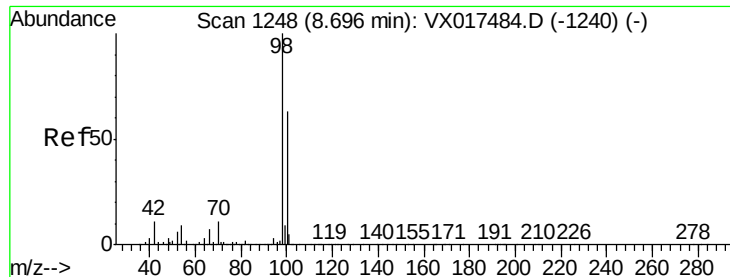


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 53.404 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Instrument :

MSVOA_X

ClientSampleId :

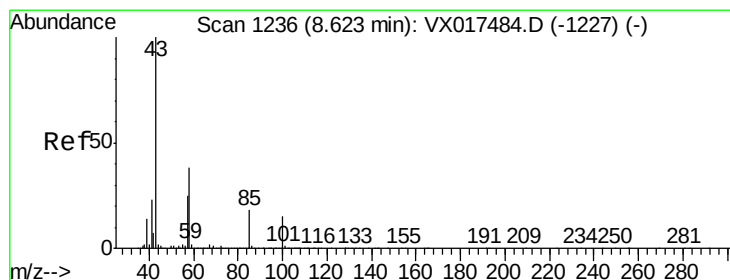
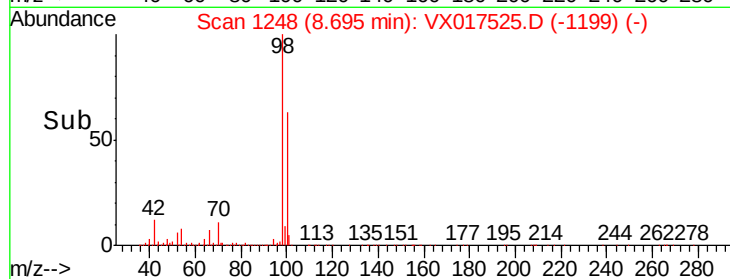
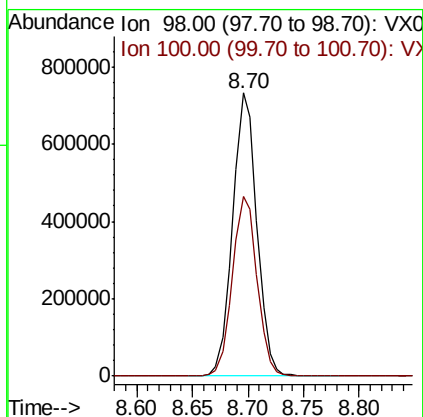
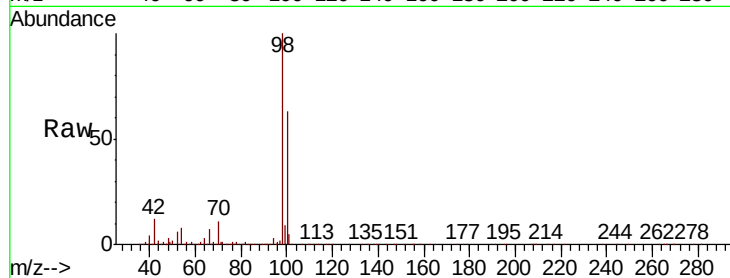
VNJ-221

Tot Ion: 98 Resp: 1104198

Ion Ratio Lower Upper

98 100

100 64.6 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 15.821 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017525.D

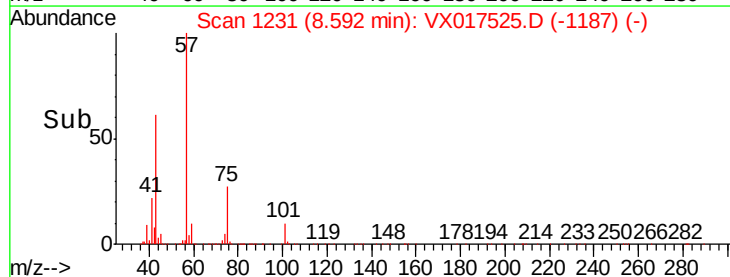
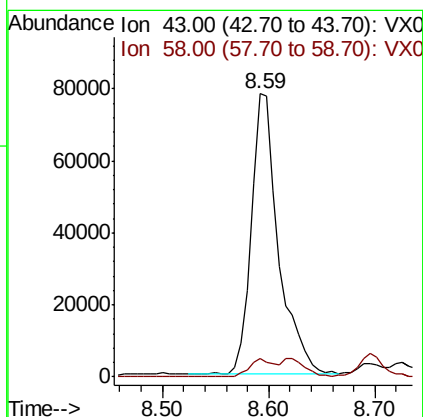
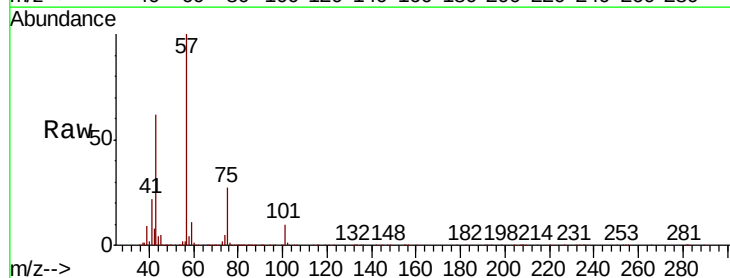
Acq: 24 Jul 2020 04:54

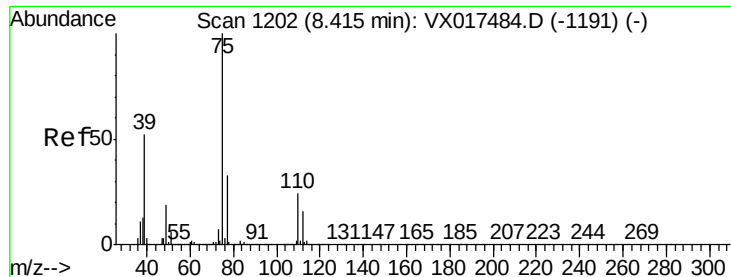
Tgt Ion: 43 Resp: 140067

Ion Ratio Lower Upper

43 100

58 6.2 31.0 46.4#





#54

cis-1,3-Dichloropropene

Concen: 5.415 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Instrument :

MSVOA_X

ClientSampleId :

VNJ-221

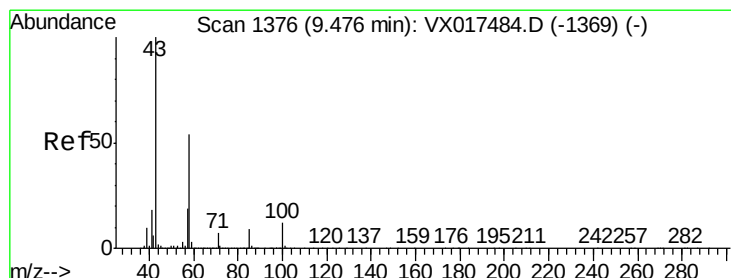
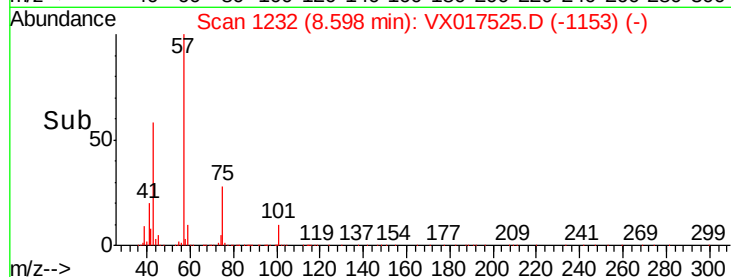
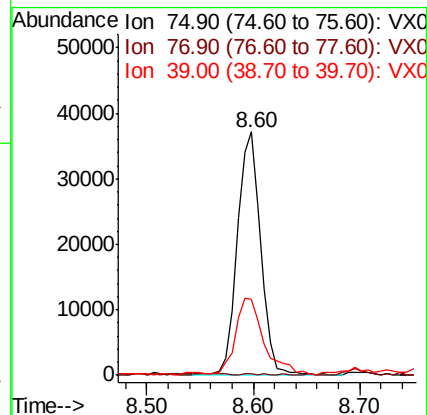
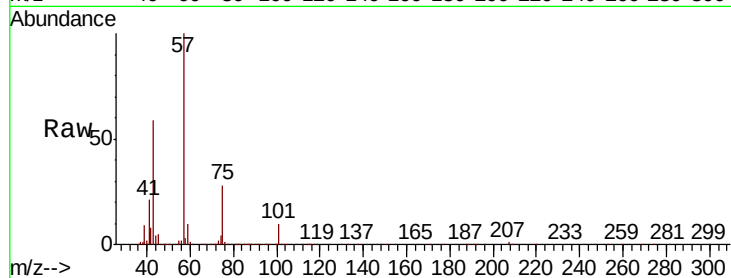
Tot Ion: 75 Resp: 57429

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 30.1 41.8 62.8#



#59

2-Hexanone

Concen: 2.659 ug/l

RT: 9.48 min Scan# 1376

Delta R.T. -0.00 min

Lab File: VX017525.D

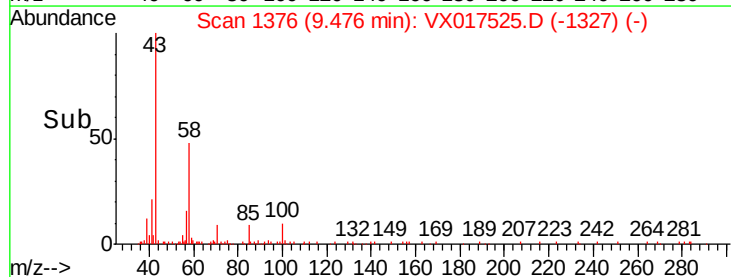
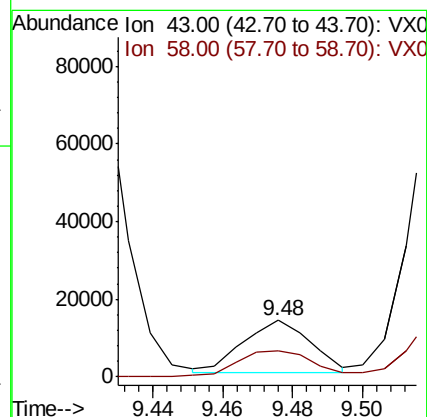
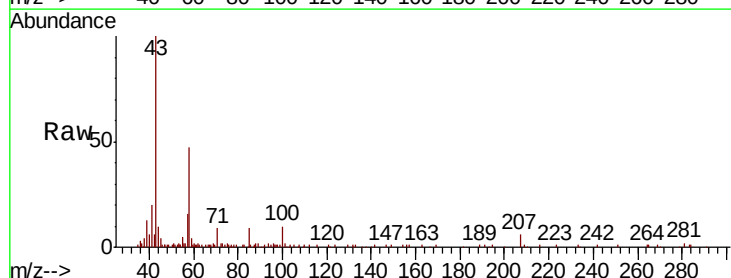
Acq: 24 Jul 2020 04:54

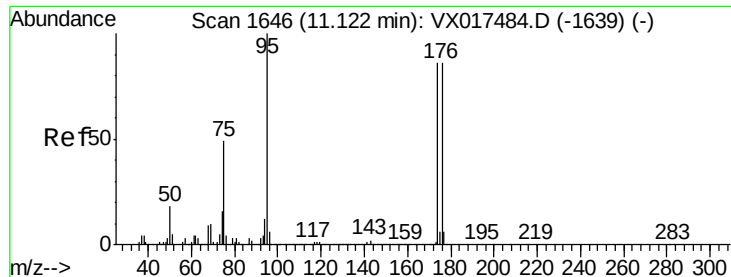
Tgt Ion: 43 Resp: 17724

Ion Ratio Lower Upper

43 100

58 55.2 26.6 79.8





#62

4-Bromofluorobenzene

Concen: 59.395 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Instrument :

MSVOA_X

ClientSampled :

VNJ-221

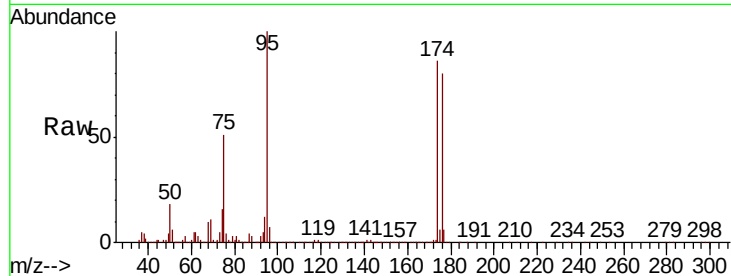
Tot Ion: 95 Resp: 491472

Ion Ratio Lower Upper

95 100

174 83.2 0.0 169.0

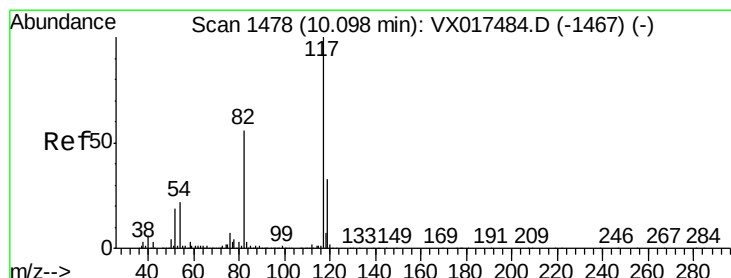
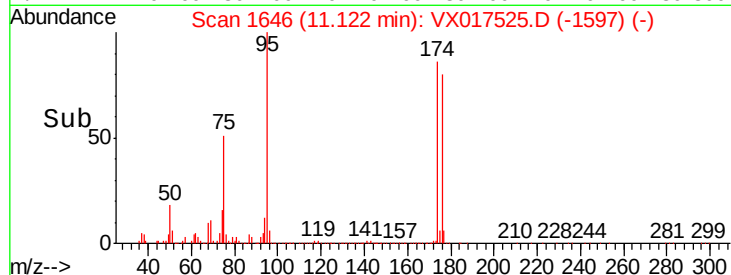
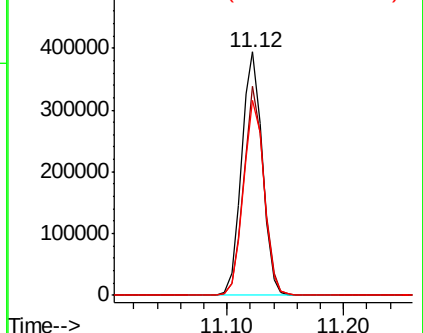
176 80.3 0.0 161.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

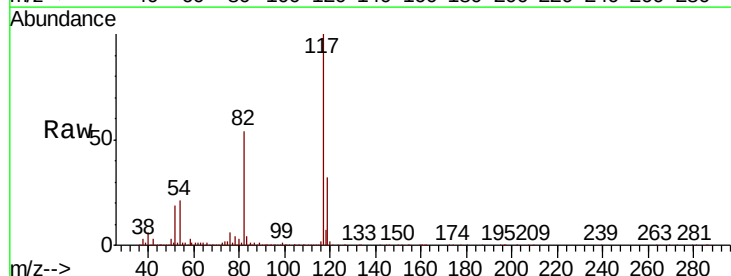
Tgt Ion: 117 Resp: 957264

Ion Ratio Lower Upper

117 100

82 54.2 44.0 66.0

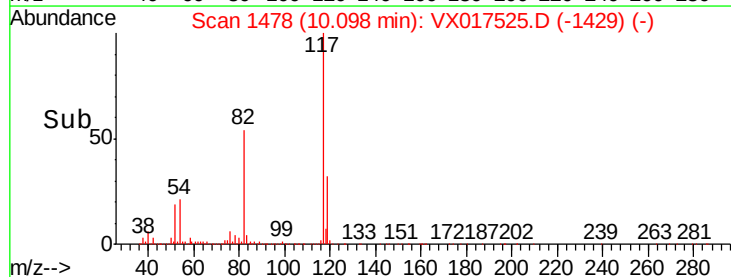
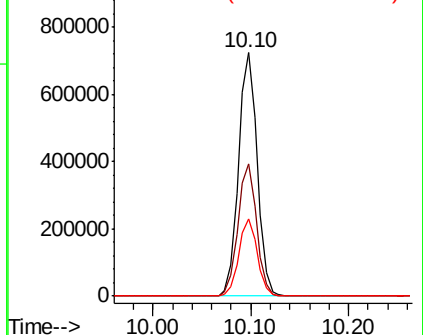
119 31.7 25.4 38.0

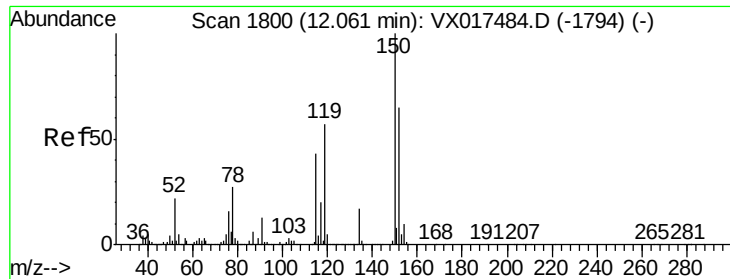


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Instrument :

MSVOA_X

ClientSampleId :

VNJ-221

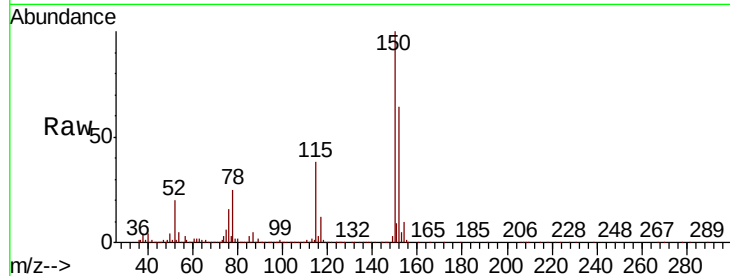
Tot Ion:152 Resp: 505089

Ion Ratio Lower Upper

152 100

115 59.0 65.5 196.6#

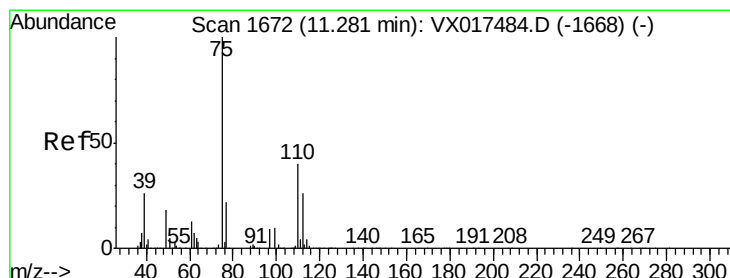
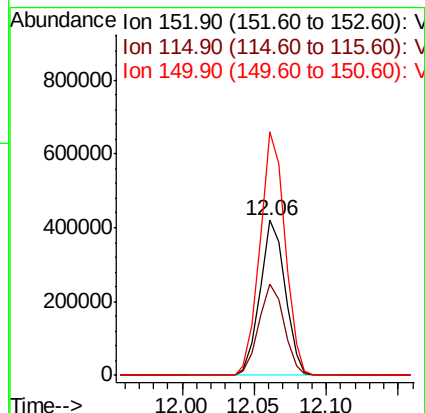
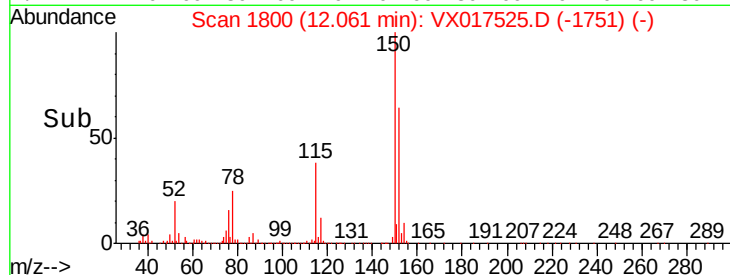
150 156.7 0.0 412.6



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



#76

1,2,3-Trichloropropane

Concen: 23.686 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017525.D

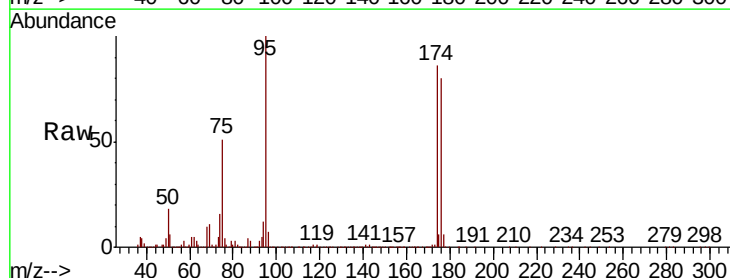
Acq: 24 Jul 2020 04:54

Tgt Ion: 75 Resp: 246100

Ion Ratio Lower Upper

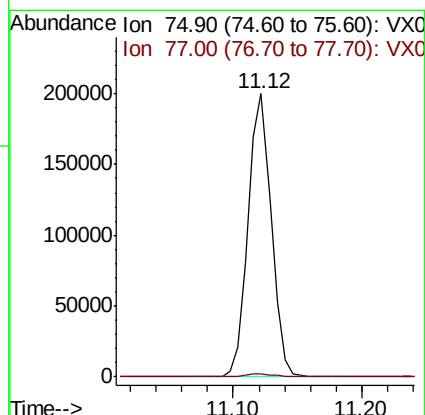
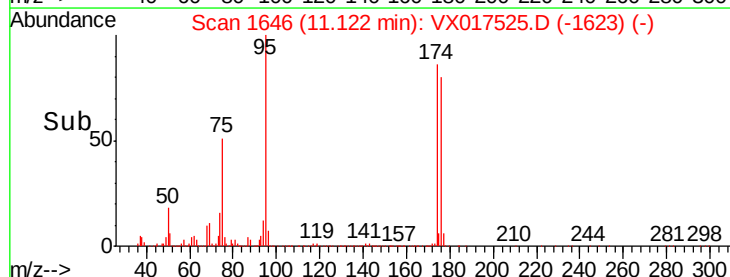
75 100

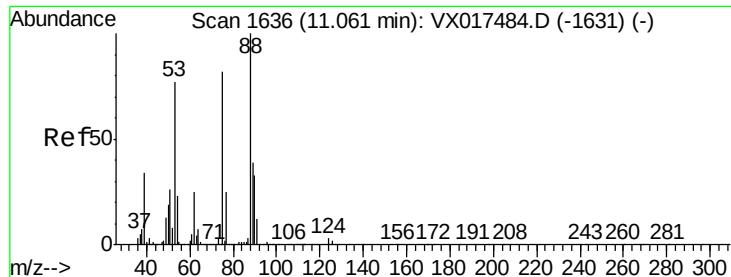
77 1.2 21.8 65.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.685 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Instrument :

MSVOA_X

ClientSampled :

VNJ-221

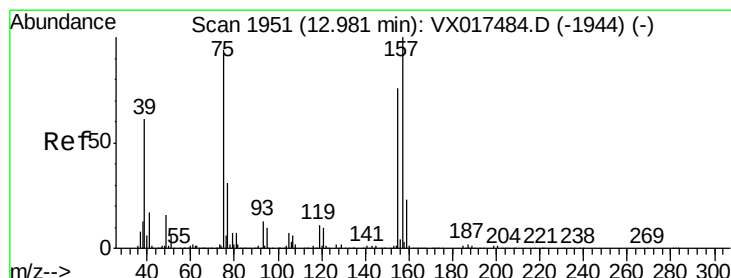
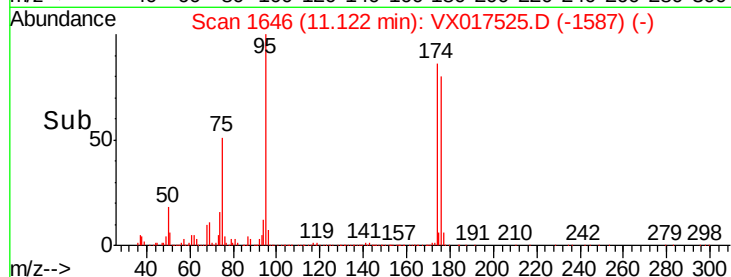
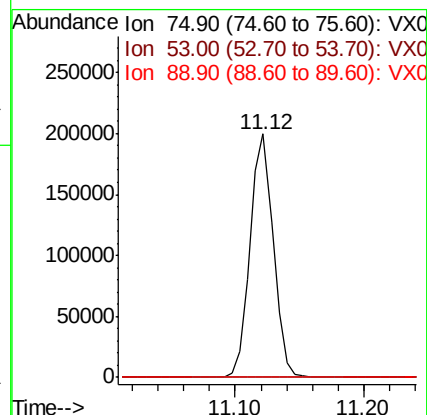
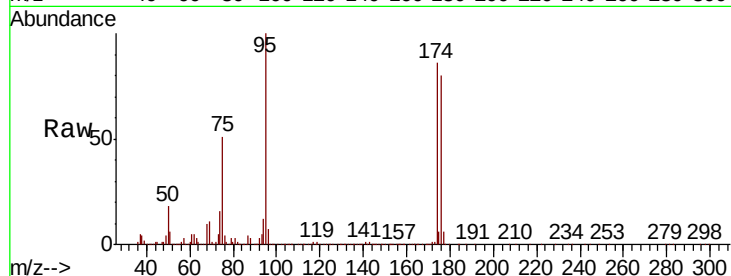
Tot Ion: 75 Resp: 246100

Ion Ratio Lower Upper

75 100

53 0.4 75.9 113.9#

89 0.0 37.8 56.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.680 ug/l

RT: 12.98 min Scan# 1951

Delta R.T. 0.00 min

Lab File: VX017525.D

Acq: 24 Jul 2020 04:54

Tgt Ion: 75 Resp: 333

Ion Ratio Lower Upper

75 100

155 7.8 42.3 126.8#

157 34.2 54.3 162.9#

