

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX073020\
 Data File : VX017678.D
 Acq On : 30 Jul 2020 12:54
 Operator : JC/SP
 Sample : L3514-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PK-10S

Quant Time: Jul 31 05:32:37 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	468747	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	702267	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	825956	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	414353	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	297511	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
35) Dibromofluoromethane	5.46	113	263710	56.15	ug/l	0.00
Spiked Amount			Recovery	=	112.30%	
50) Toluene-d8	8.70	98	867216	51.18	ug/l	0.00
Spiked Amount			Recovery	=	102.36%	
62) 4-Bromofluorobenzene	11.12	95	413558	60.99	ug/l	0.00
Spiked Amount			Recovery	=	121.98%	

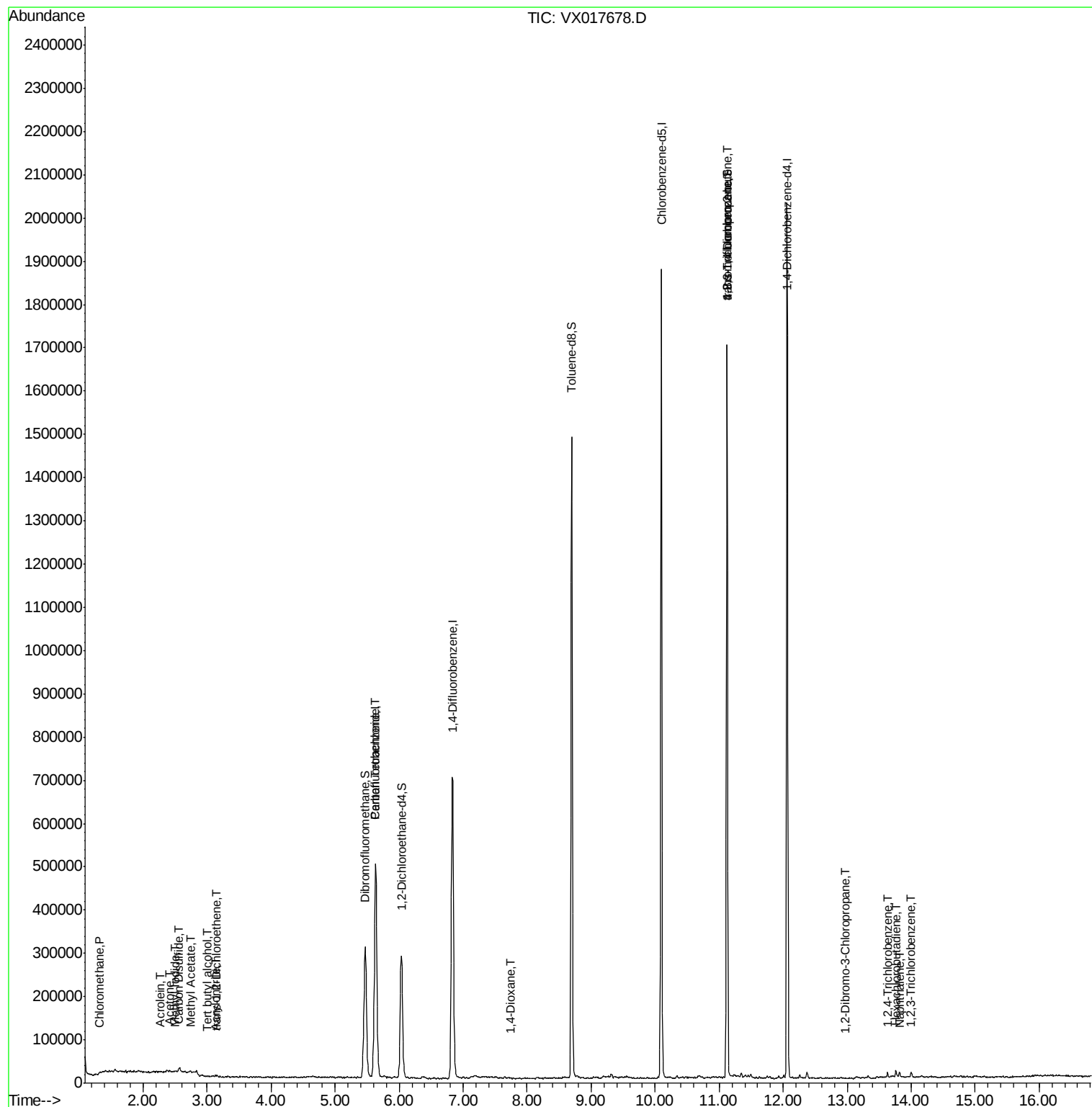
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	871	Below Cal		74
3) Chloromethane	1.31	50	1872	0.688 ug/l #		59
5) Bromomethane	1.61	94	275	Below Cal #		14
6) Chloroethane	1.70	64	227	Below Cal #		69
8) Diethyl Ether	2.26	74	133	Below Cal		91
10) Methyl Iodide	2.50	142	2095	0.322 ug/l #		66
11) Tert butyl alcohol	3.00	59	288	0.227 ug/l #		1
13) Acrolein	2.28	56	1128	5.293 ug/l #		66
15) Acrylonitrile	3.14	53	2042	0.745 ug/l #		17
16) Acetone	2.42	43	6597	2.489 ug/l		91
17) Carbon Disulfide	2.55	76	5187	0.352 ug/l #		75
18) Methyl Acetate	2.75	43	2654	0.425 ug/l #		86
20) Methylene Chloride	2.85	84	2512	Below Cal #		58
21) trans-1,2-Dichloroethene	3.15	96	1311	0.253 ug/l #		67
38) Carbon Tetrachloride	5.64	117	46236	5.653 ug/l #		17
49) 1,4-Dioxane	7.73	88	459	3.972 ug/l #		58
76) 1,2,3-Trichloropropane	11.12	75	208056	24.410 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.12	75	208056	61.508 ug/l #		11
92) 1,2-Dibromo-3-Chloropropan	12.98	75	511	2.770 ug/l #		36
93) 1,2,4-Trichlorobenzene	13.63	180	3115	0.340 ug/l		94
94) Hexachlorobutadiene	13.77	225	1809	0.429 ug/l		90
95) Naphthalene	13.82	128	6214	0.227 ug/l		96
96) 1,2,3-Trichlorobenzene	14.00	180	2667	0.295 ug/l		91

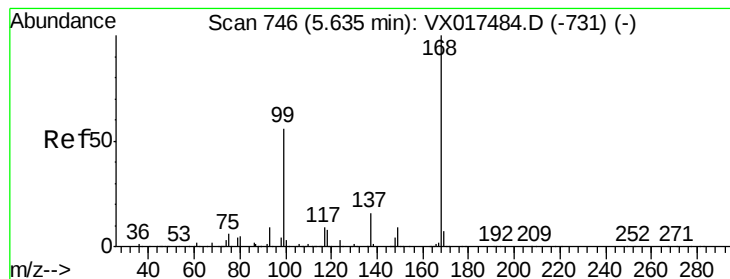
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

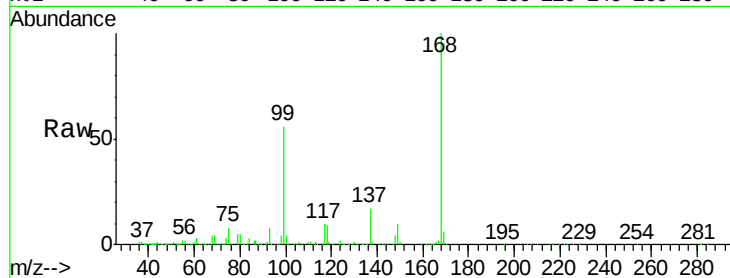
PK-10S

Tot Ion:168 Resp: 468747

Ion Ratio Lower Upper

168 100

99 55.9 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

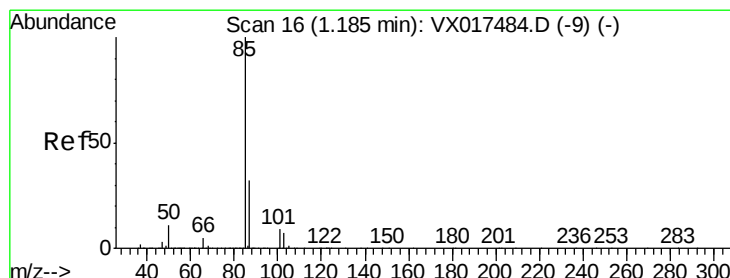
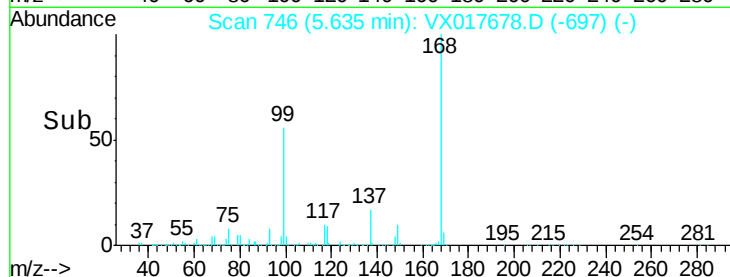
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017678.D

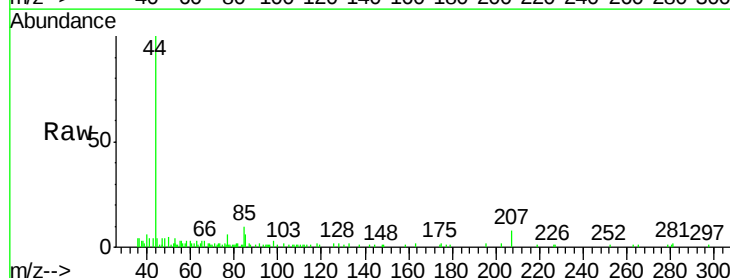
Acq: 30 Jul 2020 12:54

Tgt Ion: 85 Resp: 871

Ion Ratio Lower Upper

85 100

87 17.9 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

1200

1000

800

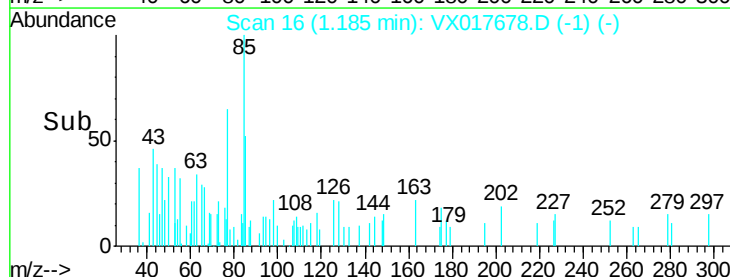
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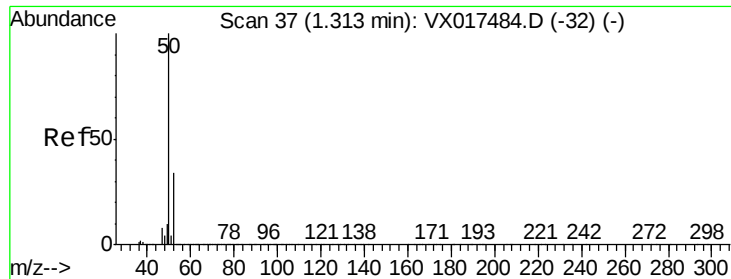
400

200

0

Time-->





#3

Chloromethane

Concen: 0.688 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

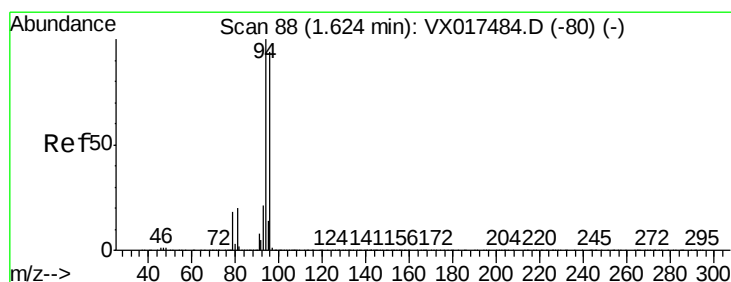
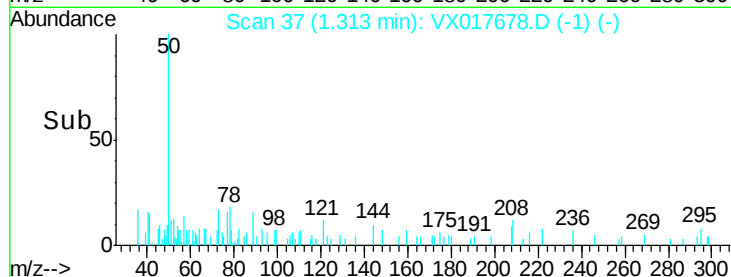
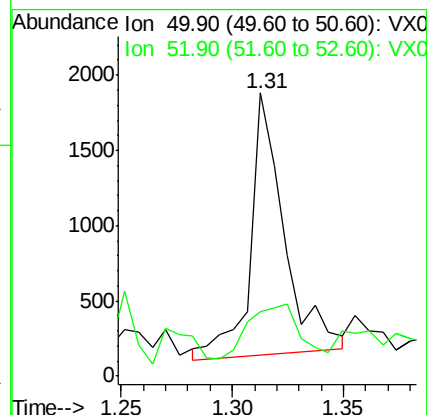
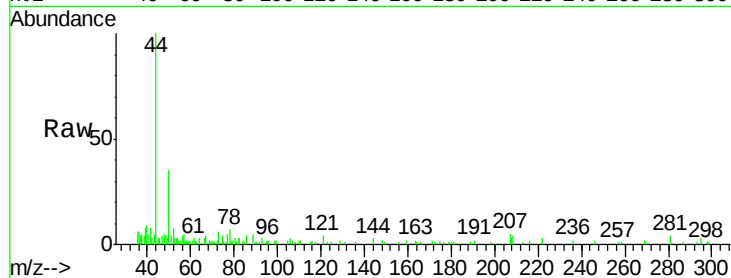
PK-10S

Tot Ion: 50 Resp: 1872

Ion Ratio Lower Upper

50 100

52 9.3 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 85

Delta R.T. -0.02 min

Lab File: VX017678.D

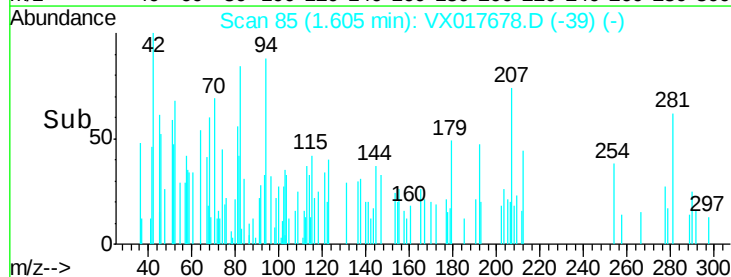
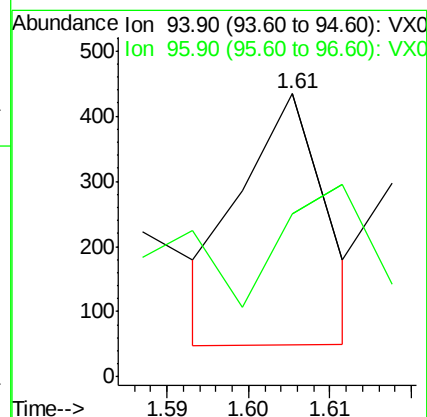
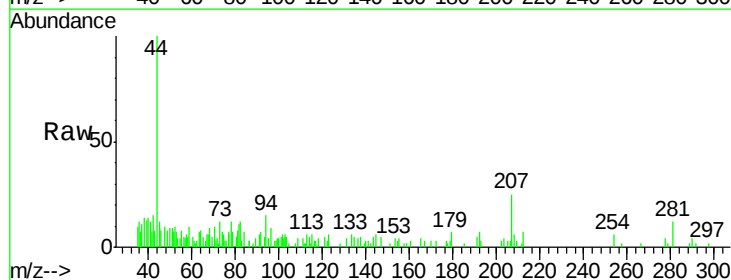
Acq: 30 Jul 2020 12:54

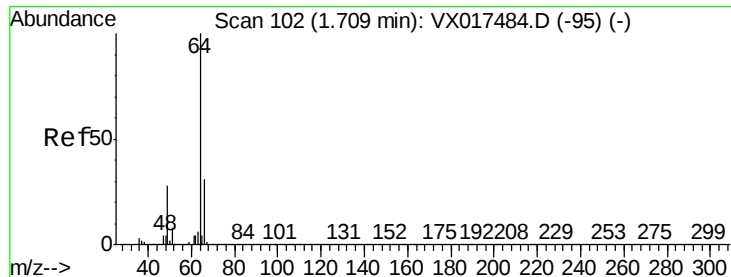
Tgt Ion: 94 Resp: 275

Ion Ratio Lower Upper

94 100

96 9.8 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 101

Delta R.T. -0.01 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

Instrument :

MSVOA_X

ClientSampled :

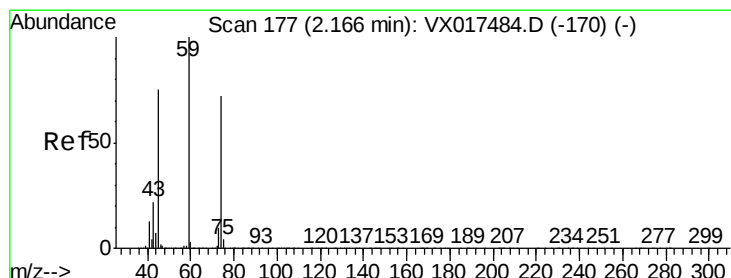
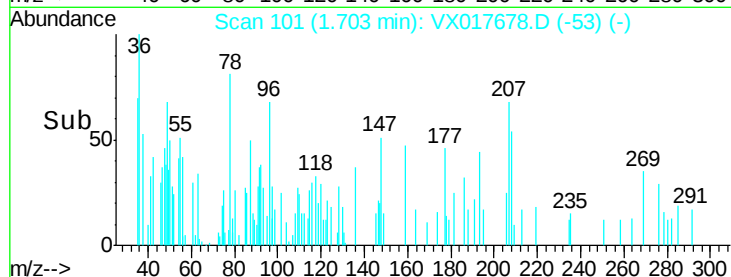
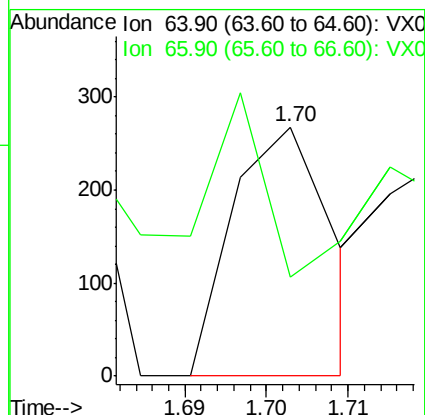
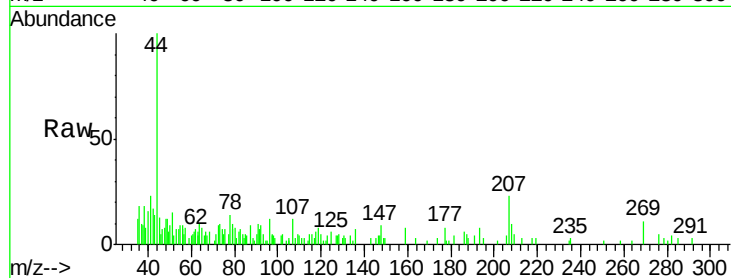
PK-10S

Tot Ion: 64 Resp: 227

Ion Ratio Lower Upper

64 100

66 48.1 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.26 min Scan# 192

Delta R.T. 0.09 min

Lab File: VX017678.D

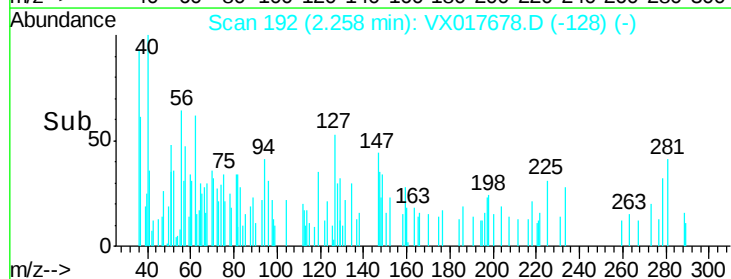
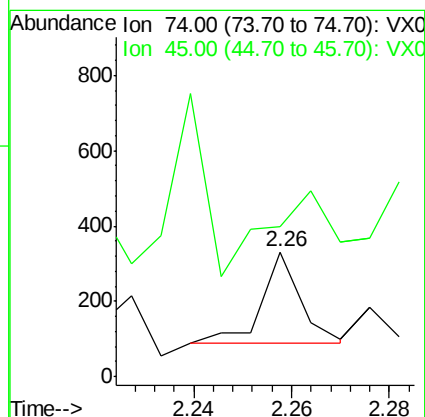
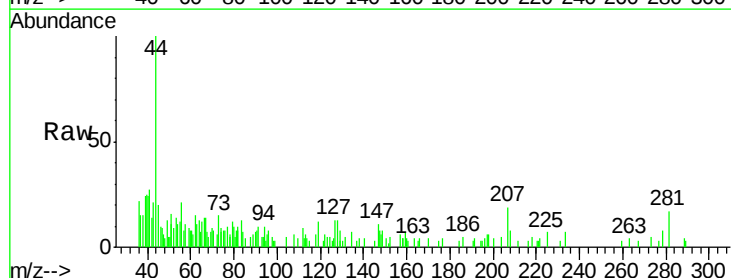
Acq: 30 Jul 2020 12:54

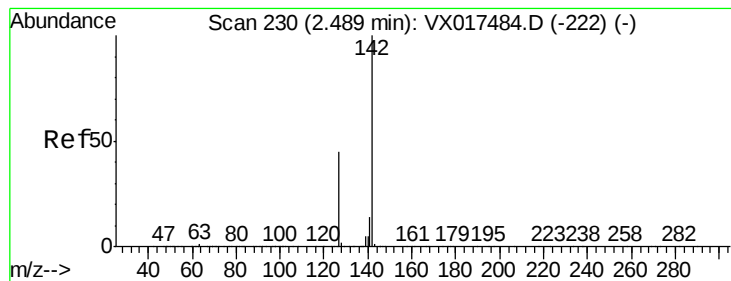
Tgt Ion: 74 Resp: 133

Ion Ratio Lower Upper

74 100

45 92.5 50.8 152.5





#10

Methyl Iodide

Concen: 0.322 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

Instrument :

MSVOA_X

ClientSampled :

PK-10S

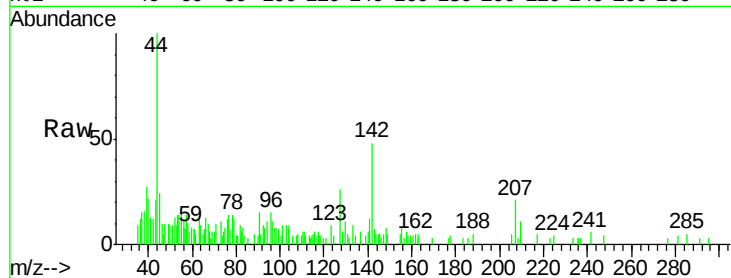
Tot Ion:142 Resp: 2095

Ion Ratio Lower Upper

142 100

127 19.1 35.9 53.9#

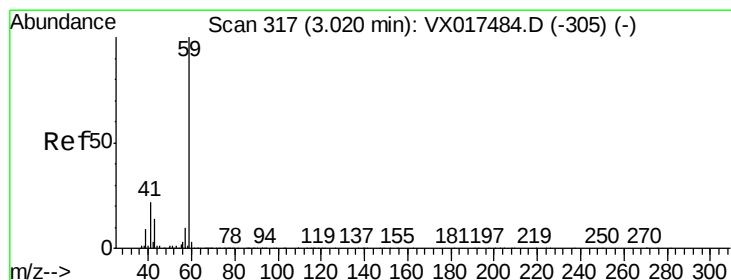
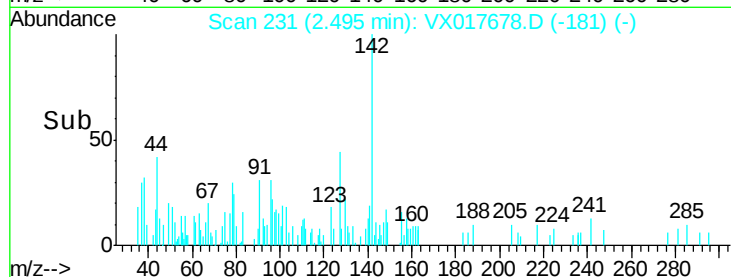
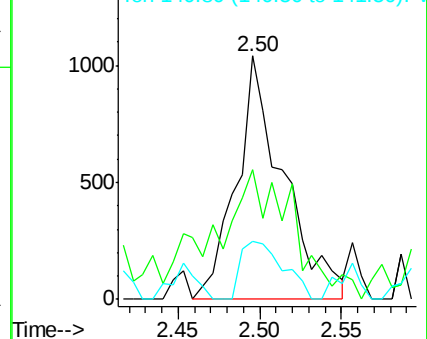
141 21.3 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.227 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX017678.D

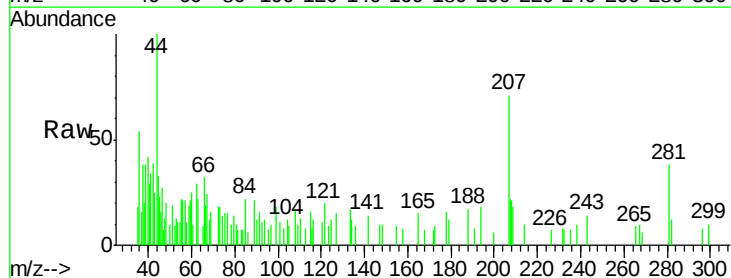
Acq: 30 Jul 2020 12:54

Tgt Ion: 59 Resp: 288

Ion Ratio Lower Upper

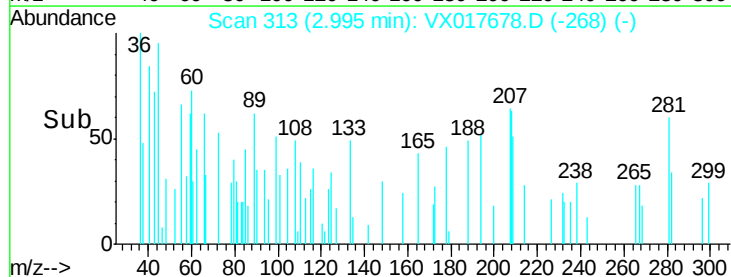
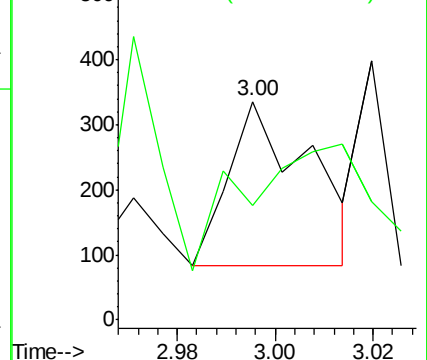
59 100

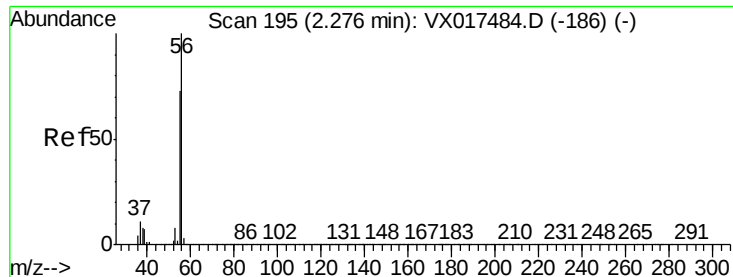
57 129.9 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 5.293 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.00 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

Instrument :

MSVOA_X

ClientSampled :

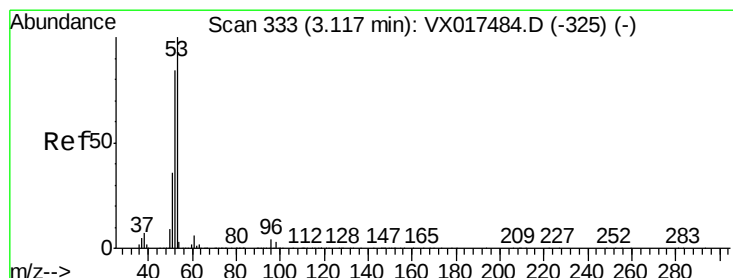
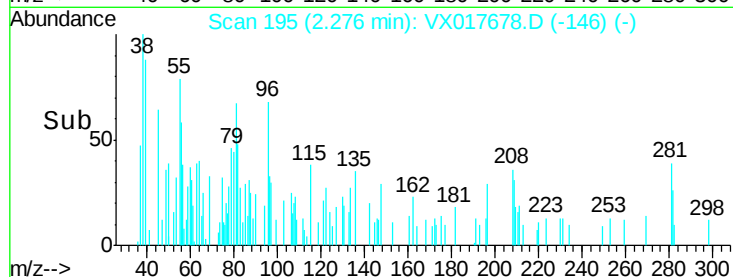
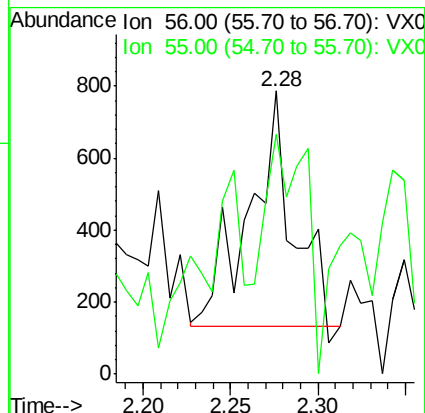
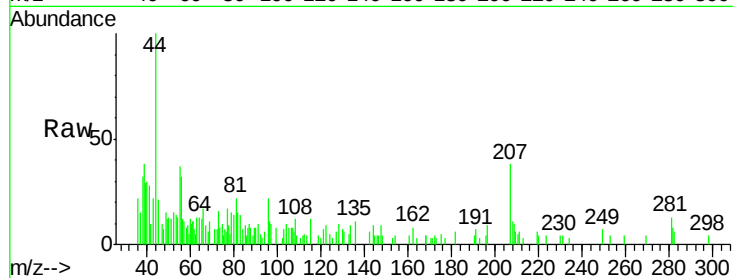
PK-10S

Tot Ion: 56 Resp: 1128

Ion Ratio Lower Upper

56 100

55 100.2 57.4 86.2#



#15

Acrylonitrile

Concen: 0.745 ug/l

RT: 3.14 min Scan# 336

Delta R.T. 0.02 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

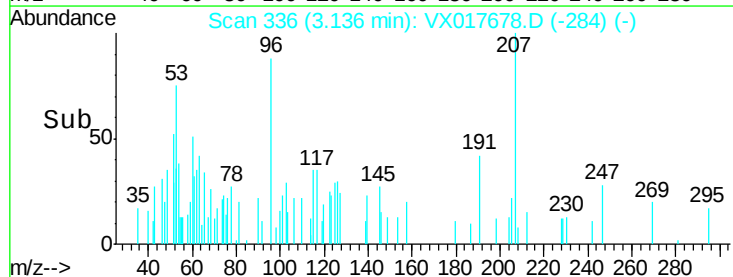
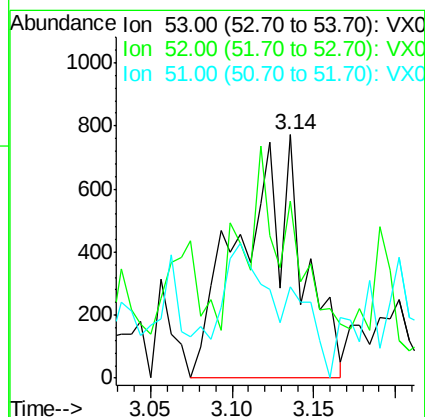
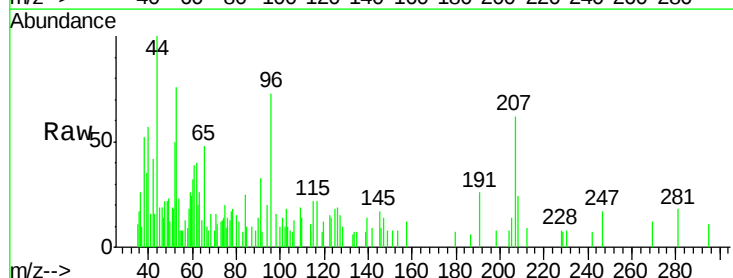
Tgt Ion: 53 Resp: 2042

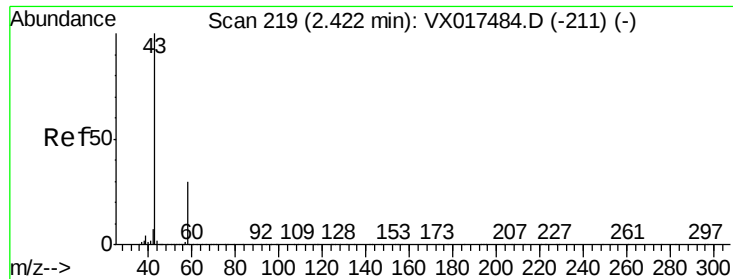
Ion Ratio Lower Upper

53 100

52 0.0 66.6 99.8#

51 0.0 29.4 44.2#

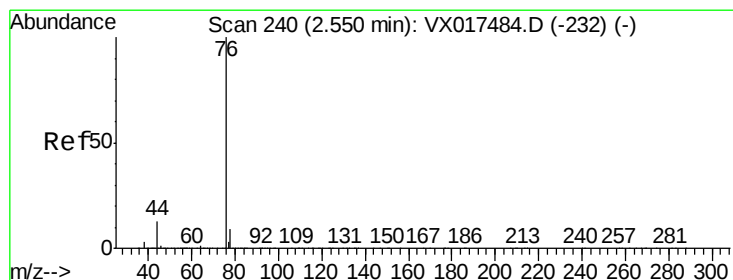
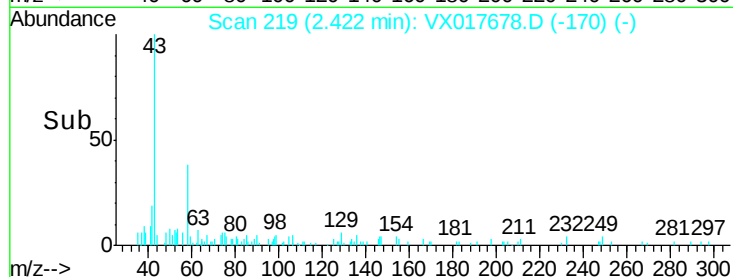
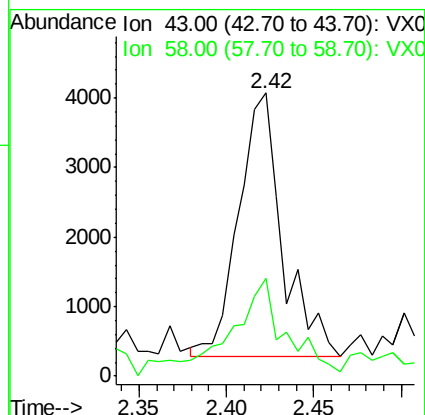
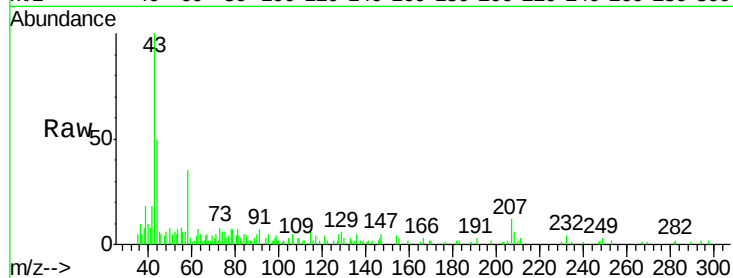




#16
Acetone
Concen: 2.489 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX017678.D
Acq: 30 Jul 2020 12:54

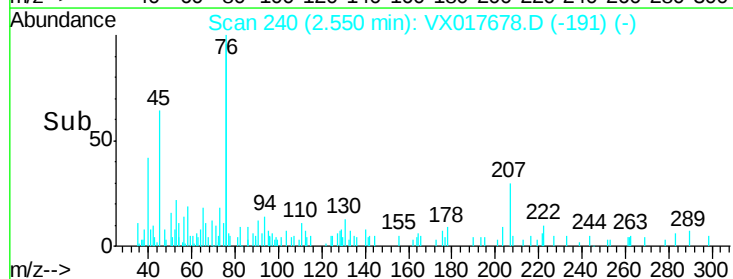
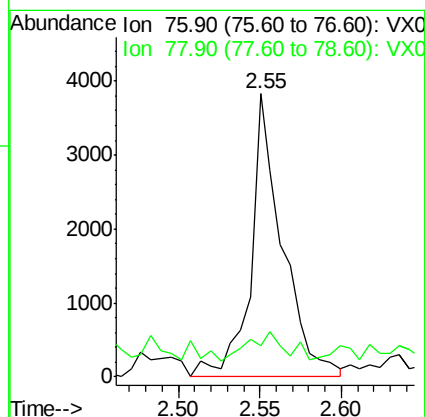
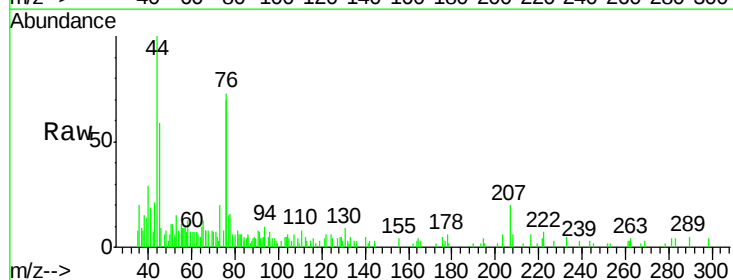
Instrument :
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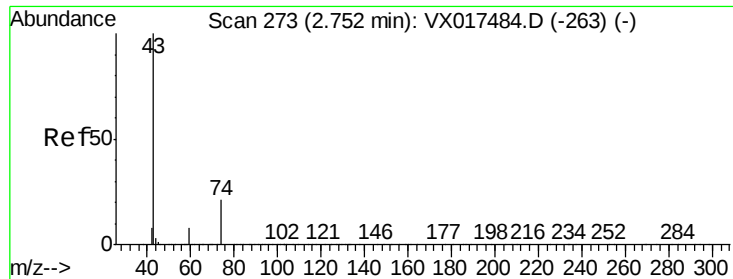
Tot Ion: 43 Resp: 6597
Ion Ratio Lower Upper
43 100
58 35.4 24.2 36.4



#17
Carbon Disulfide
Concen: 0.352 ug/l
RT: 2.55 min Scan# 240
Delta R.T. -0.00 min
Lab File: VX017678.D
Acq: 30 Jul 2020 12:54

Tgt Ion: 76 Resp: 5187
Ion Ratio Lower Upper
76 100
78 0.2 7.5 11.3#

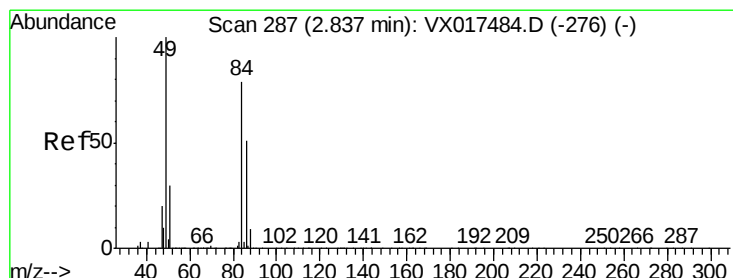
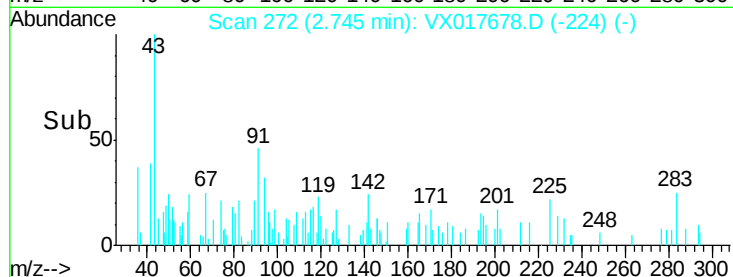
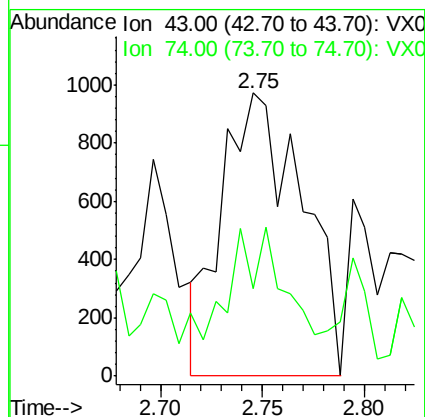
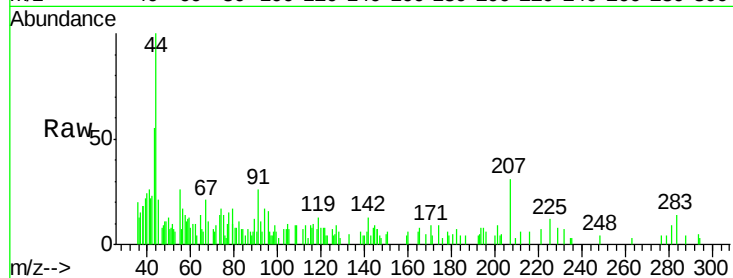




#18
Methyl Acetate
Concen: 0.425 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX017678.D
Acq: 30 Jul 2020 12:54

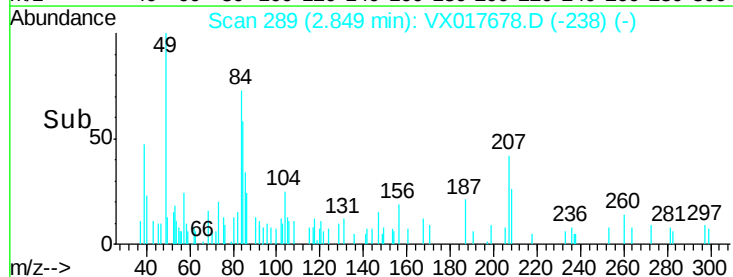
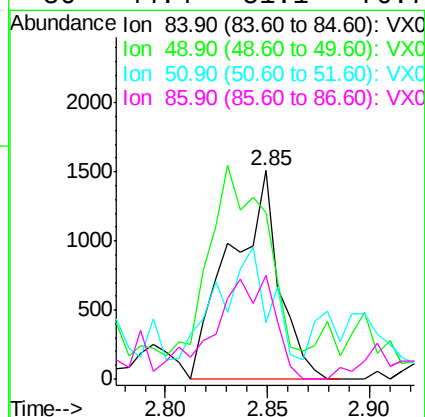
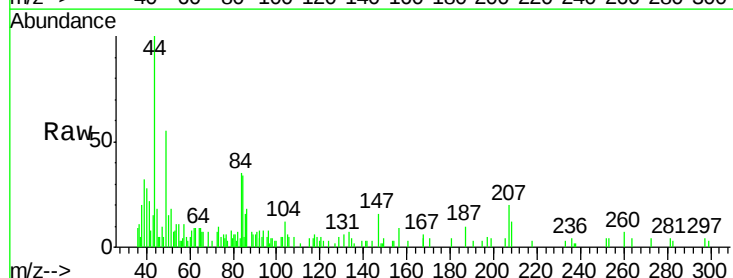
Instrument :
MSVOA_X
ClientSampled :
PK-10S

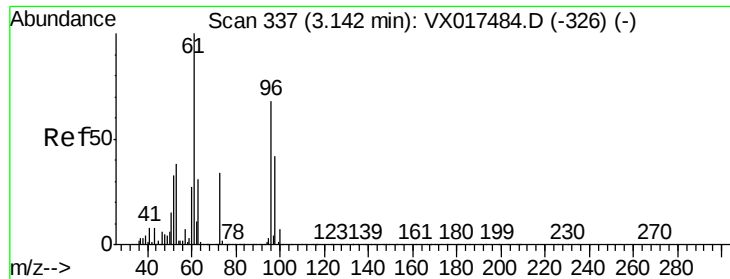
Tot Ion: 43 Resp: 2654
Ion Ratio Lower Upper
43 100
74 28.8 17.5 26.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 289
Delta R.T. 0.01 min
Lab File: VX017678.D
Acq: 30 Jul 2020 12:54

Tgt Ion: 84 Resp: 2512
Ion Ratio Lower Upper
84 100
49 69.0 100.3 150.5#
51 8.9 30.5 45.7#
86 44.4 51.1 76.7#





#21

trans-1,2-Dichloroethene

Concen: 0.253 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

PK-10S

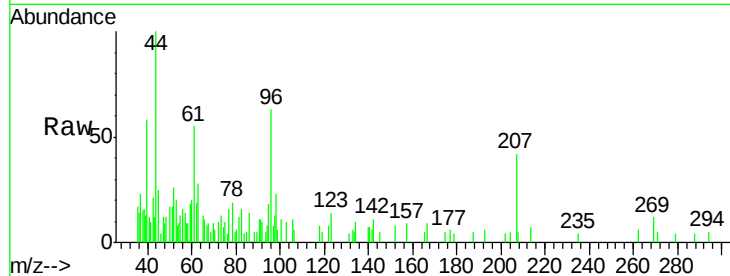
Tot Ion: 96 Resp: 1311

Ion Ratio Lower Upper

96 100

61 87.8 113.0 169.4#

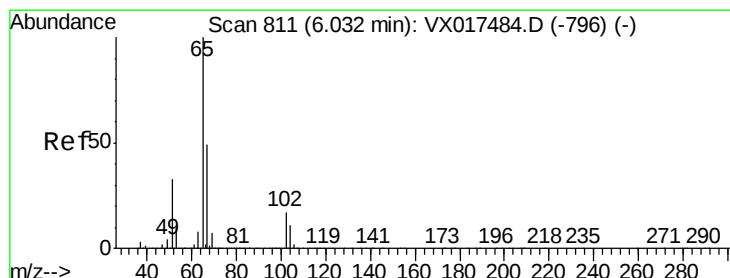
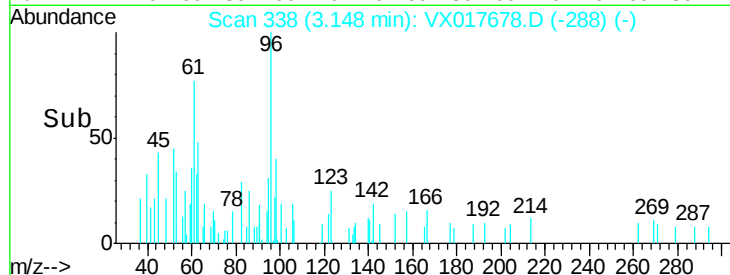
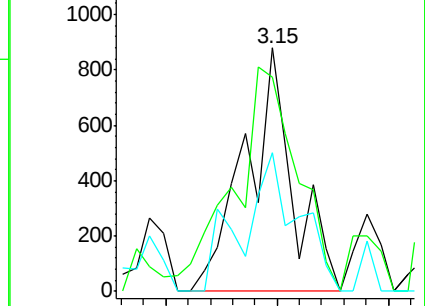
98 57.2 51.8 77.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.410 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017678.D

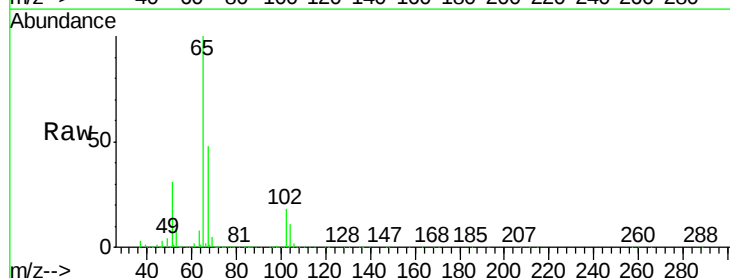
Acq: 30 Jul 2020 12:54

Tgt Ion: 65 Resp: 297511

Ion Ratio Lower Upper

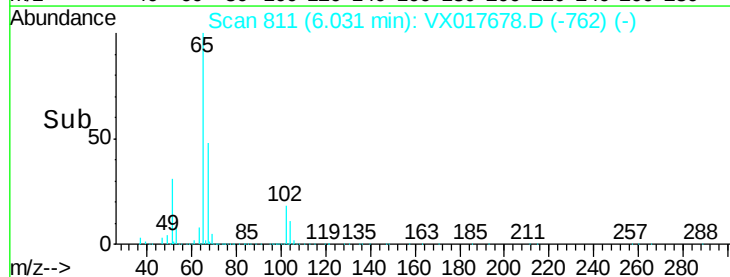
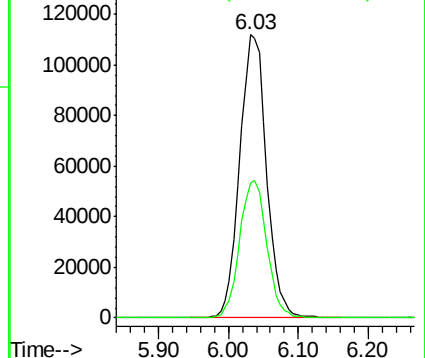
65 100

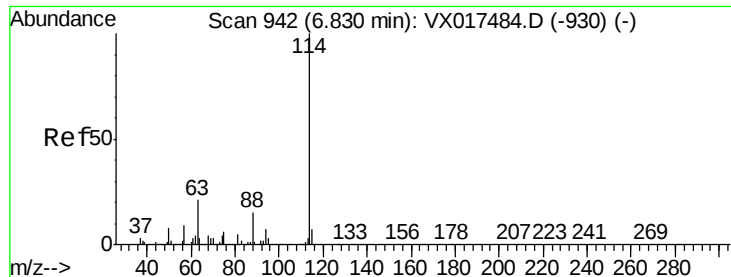
67 49.1 0.0 102.8



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

PK-10S

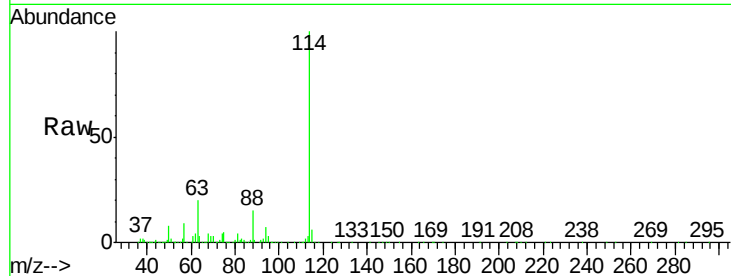
Tot Ion:114 Resp: 702267

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.6

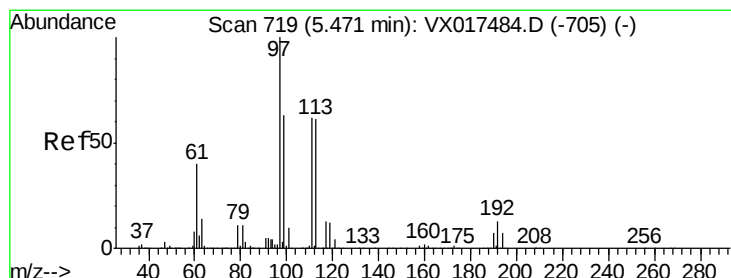
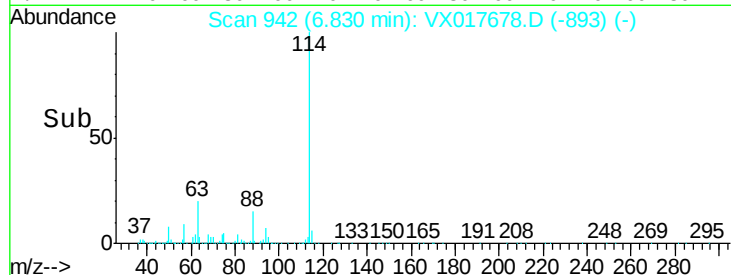
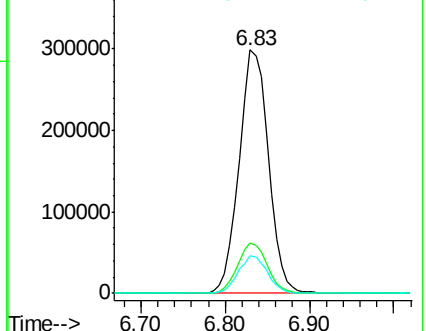
88 15.4 0.0 33.4



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: 56.147 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

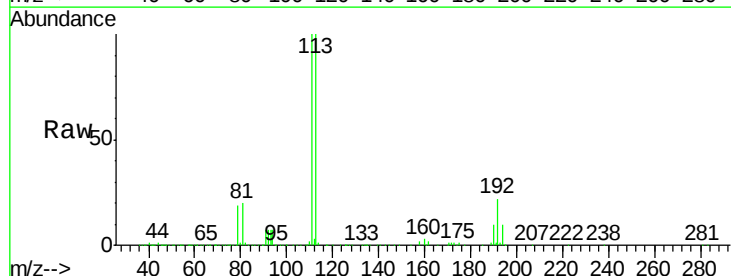
Tgt Ion:113 Resp: 263710

Ion Ratio Lower Upper

113 100

111 102.3 80.7 121.1

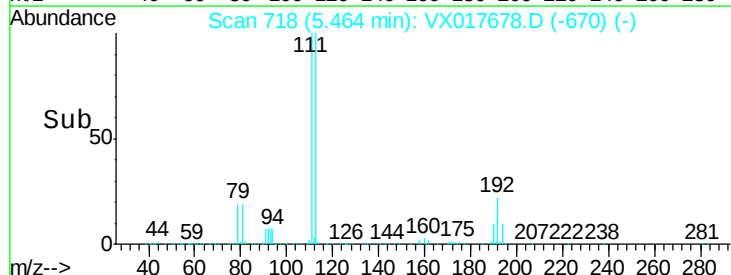
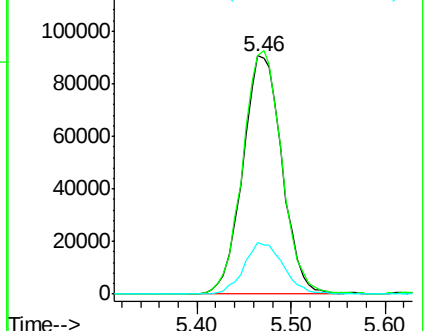
192 21.8 16.9 25.3

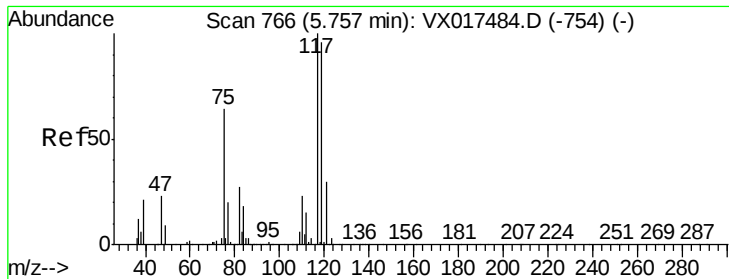


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.653 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

Instrument :

MSVOA_X

ClientSampled :

PK-10S

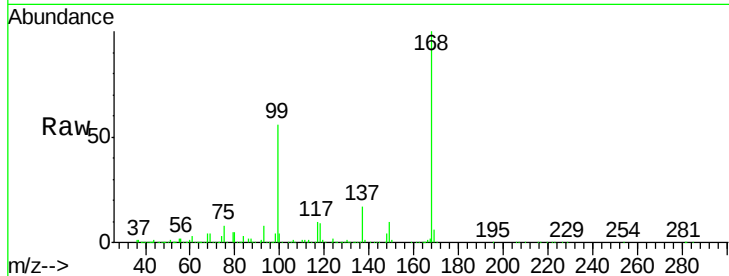
Tot Ion:117 Resp: 46236

Ion Ratio Lower Upper

117 100

119 4.9 75.4 113.0#

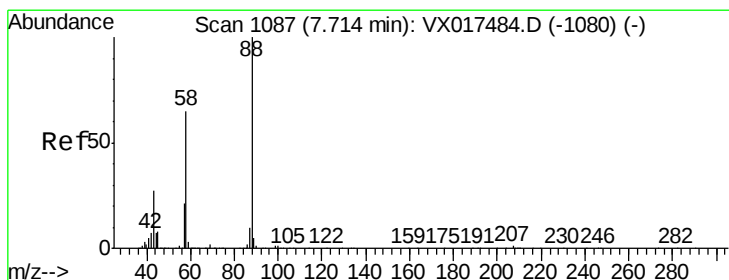
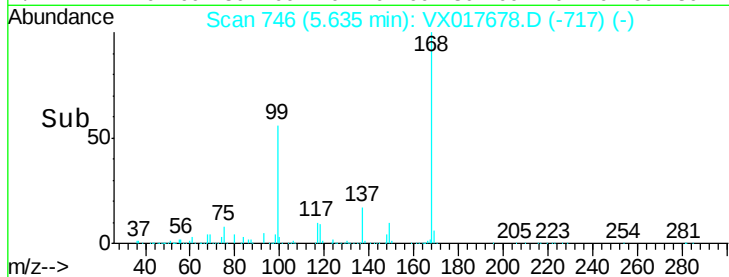
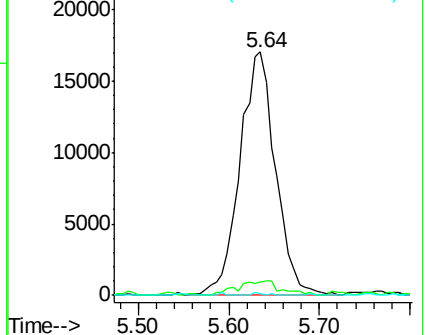
121 0.5 24.3 36.5#



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



#49

1,4-Dioxane

Concen: 3.972 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

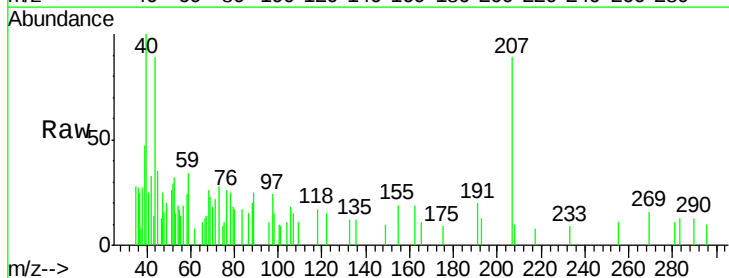
Tgt Ion: 88 Resp: 459

Ion Ratio Lower Upper

88 100

43 38.3 27.8 41.6

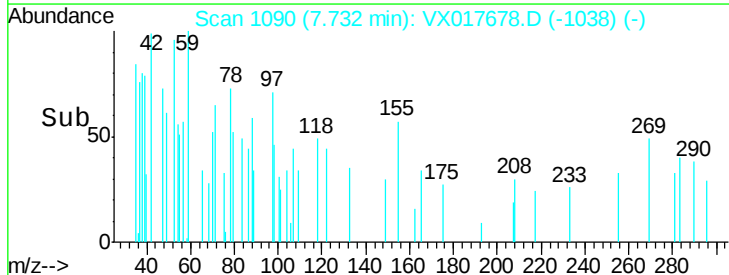
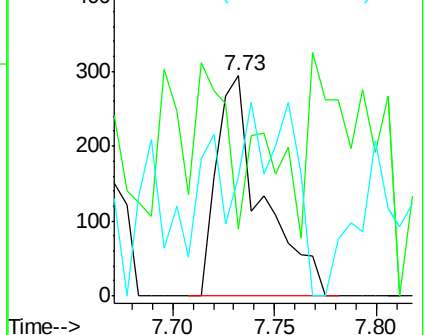
58 23.3 58.3 87.5#

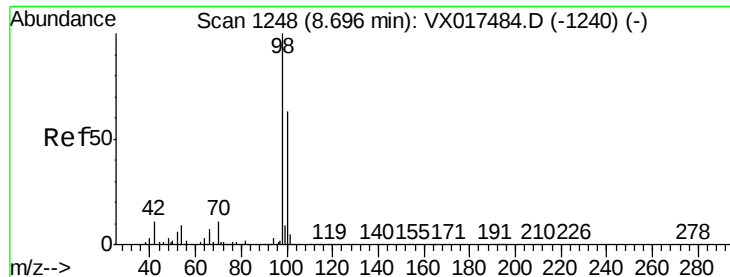


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.183 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

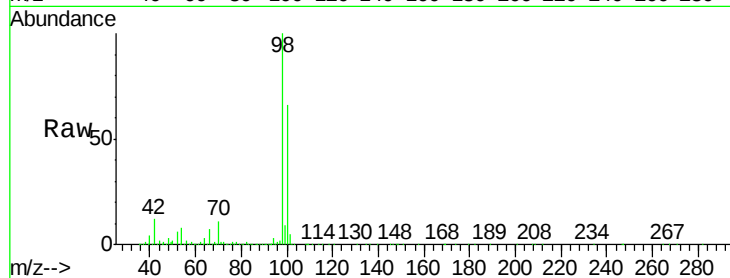
PK-10S

Tot Ion: 98 Resp: 867216

Ion Ratio Lower Upper

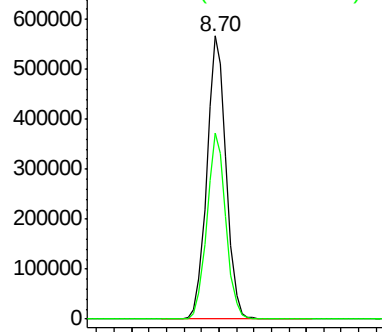
98 100

100 65.0 52.3 78.5

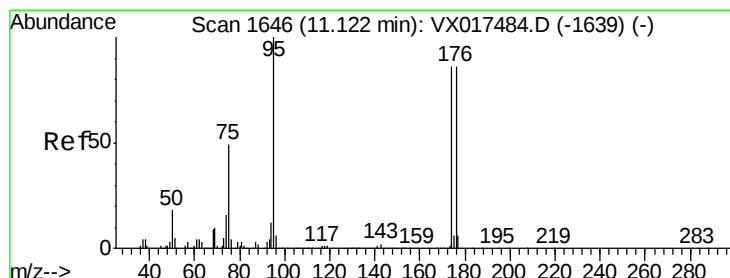
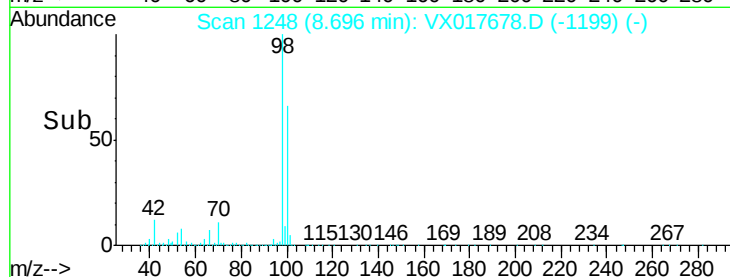


Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



Time-->



#62

4-Bromofluorobenzene

Concen: 60.989 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

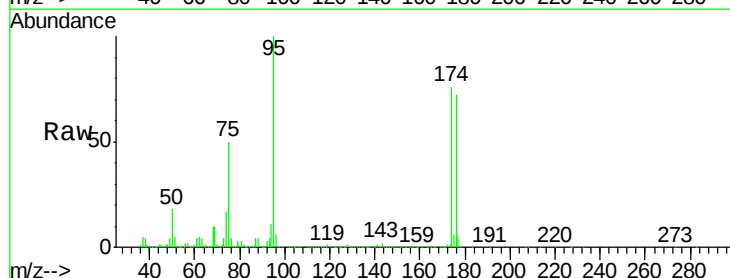
Tgt Ion: 95 Resp: 413558

Ion Ratio Lower Upper

95 100

174 82.2 0.0 169.0

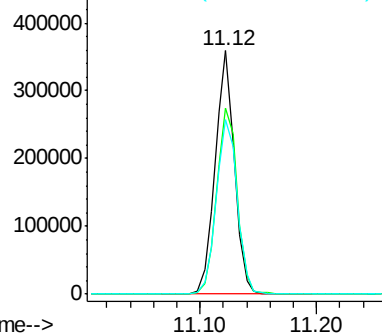
176 78.5 0.0 161.0



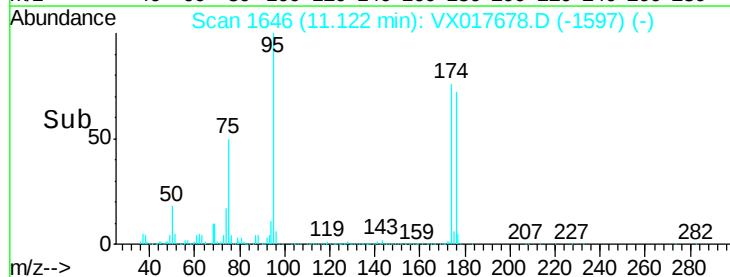
Abundance Ion 94.90 (94.60 to 95.60): VX0

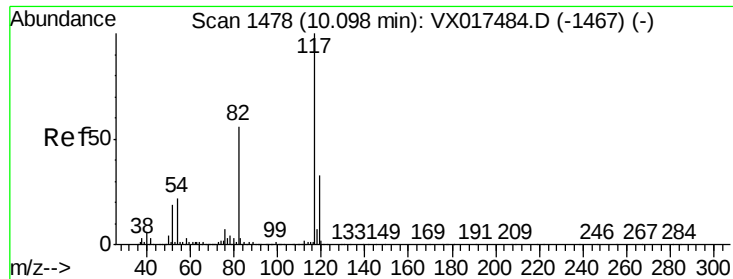
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

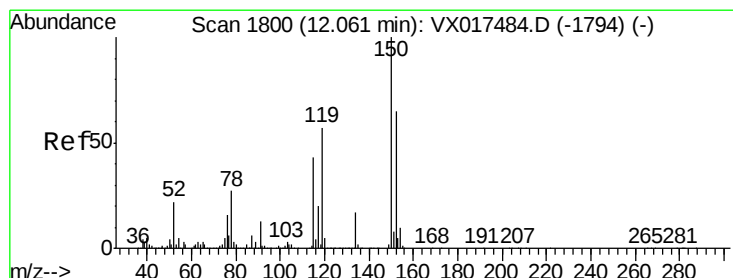
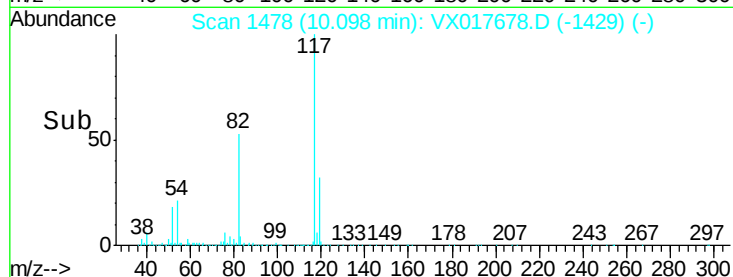
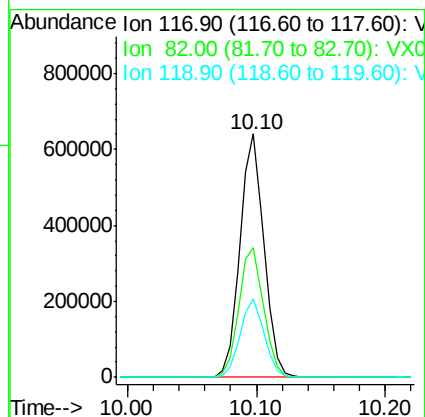
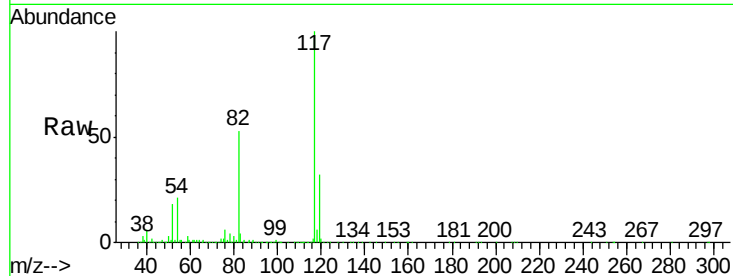




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017678.D
Acq: 30 Jul 2020 12:54

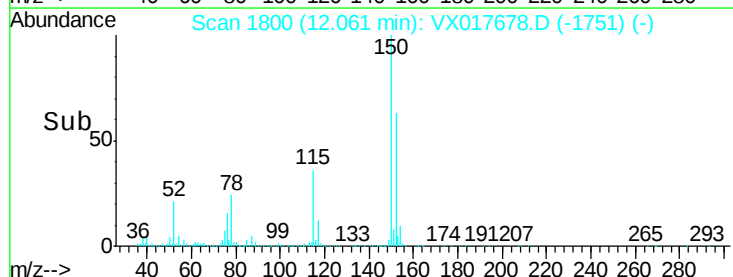
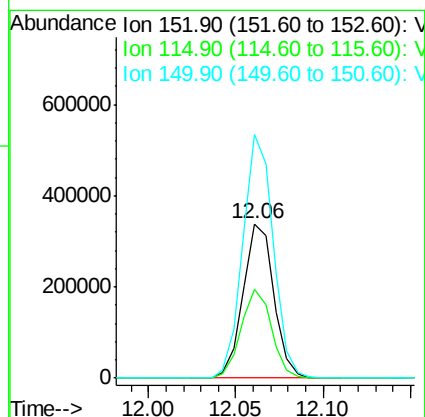
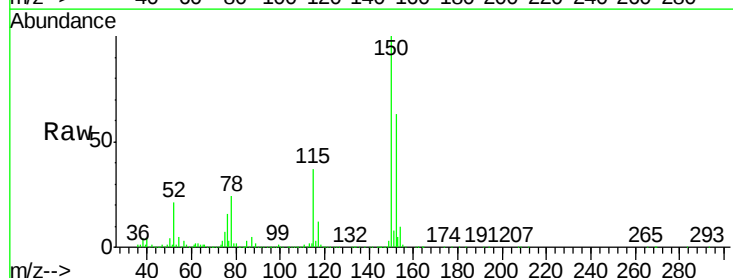
Instrument :
MSVOA_X
ClientSampleId :
PK-10S

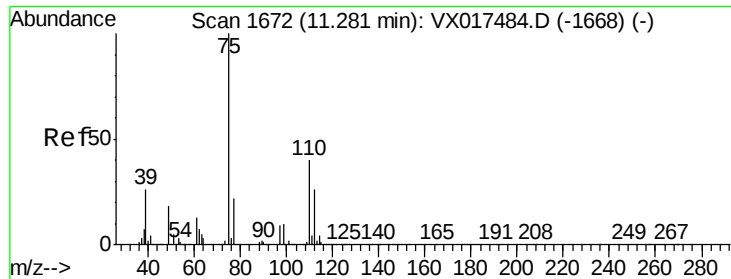
Tot Ion:117 Resp: 825956
Ion Ratio Lower Upper
117 100
82 53.1 44.0 66.0
119 32.3 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017678.D
Acq: 30 Jul 2020 12:54

Tgt Ion:152 Resp: 414353
Ion Ratio Lower Upper
152 100
115 56.9 65.5 196.6#
150 156.1 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 24.410 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

Instrument :

MSVOA_X

ClientSampled :

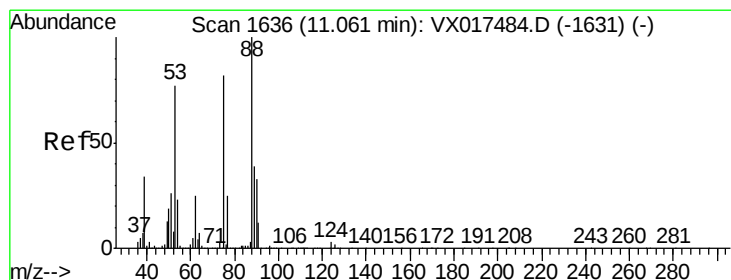
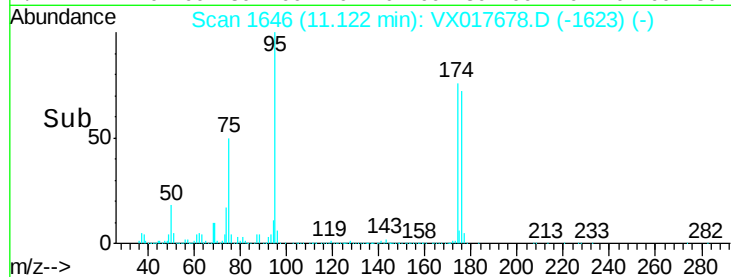
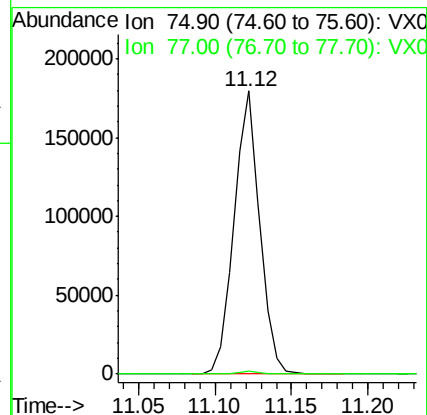
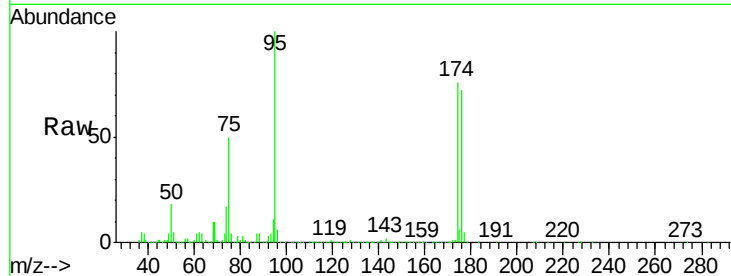
PK-10S

Tot Ion: 75 Resp: 208056

Ion Ratio Lower Upper

75 100

77 1.3 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.508 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

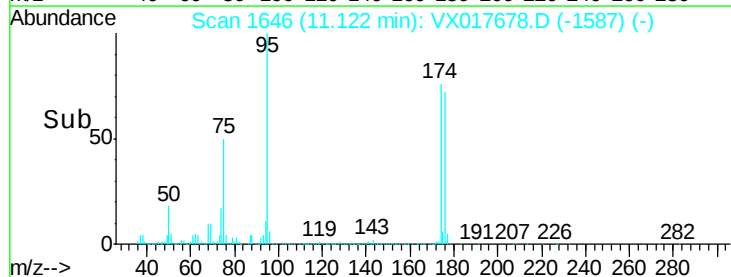
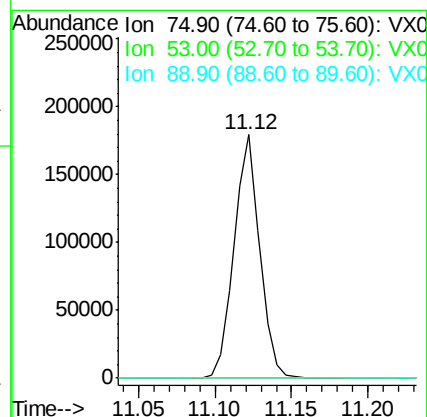
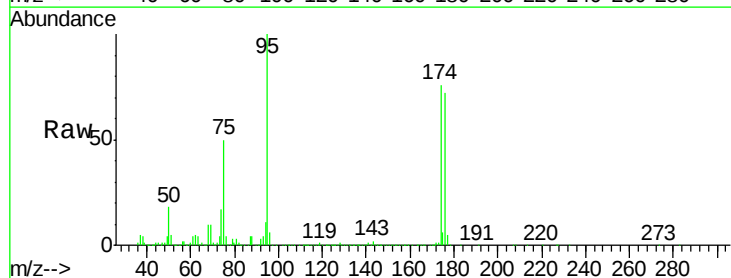
Tgt Ion: 75 Resp: 208056

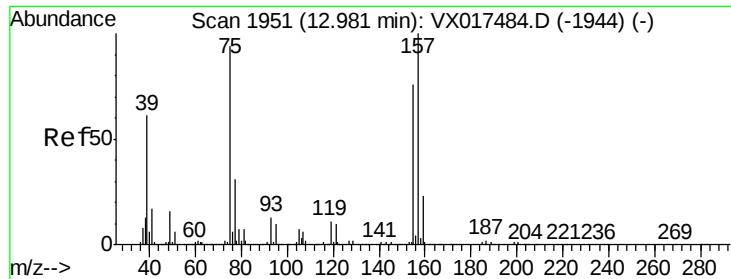
Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

89 0.0 37.8 56.6#

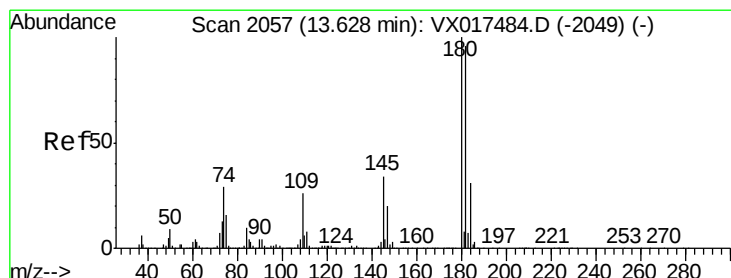
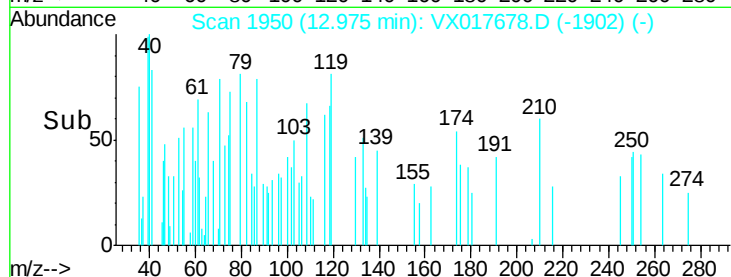
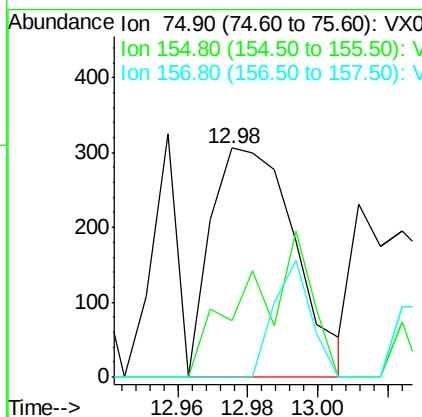
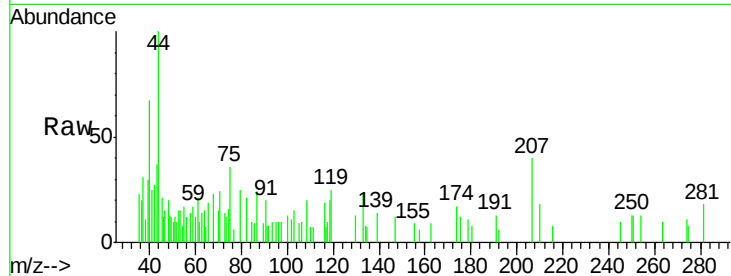




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.770 ug/l
 RT: 12.98 min Scan# 1950
 Delta R.T. -0.01 min
 Lab File: VX017678.D
 Acq: 30 Jul 2020 12:54

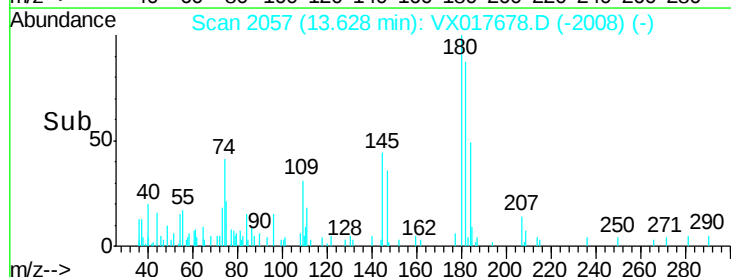
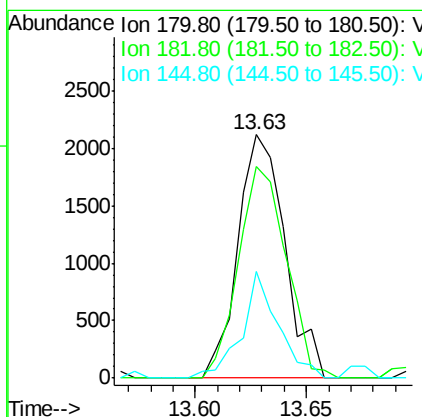
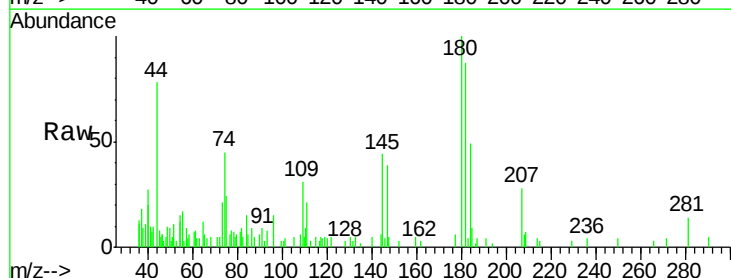
Instrument :
 MSVOA_X
 ClientSampleId :
 PK-10S

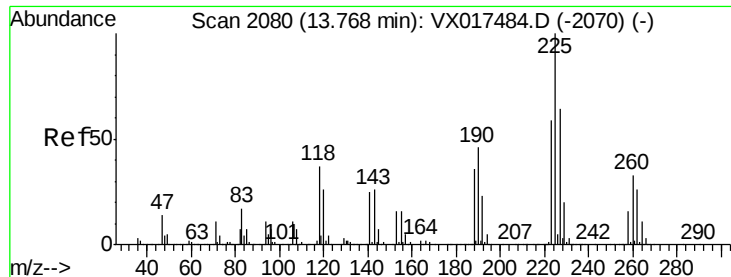
Tot Ion: 75 Resp: 511
 Ion Ratio Lower Upper
 75 100
 155 47.6 42.3 126.8
 157 22.5 54.3 162.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.340 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX017678.D
 Acq: 30 Jul 2020 12:54

Tgt Ion: 180 Resp: 3115
 Ion Ratio Lower Upper
 180 100
 182 88.6 47.5 142.6
 145 34.0 15.4 46.4





#94

Hexachlorobutadiene

Concen: 0.429 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

PK-10S

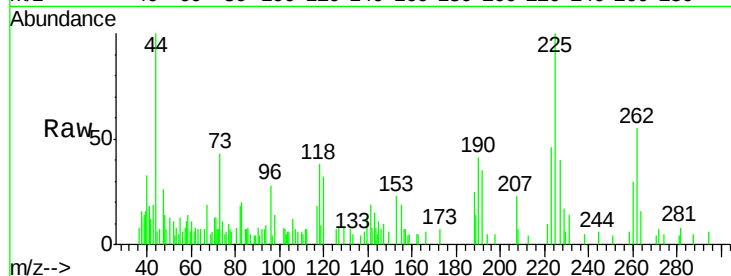
Tot Ion:225 Resp: 1809

Ion Ratio Lower Upper

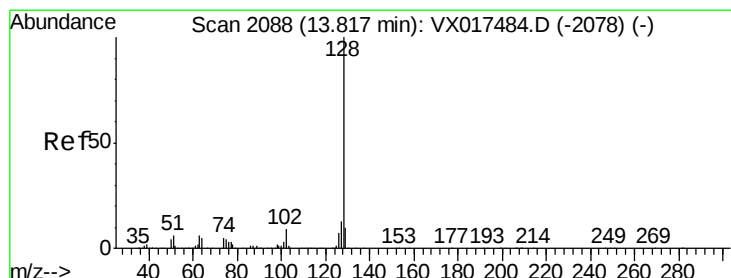
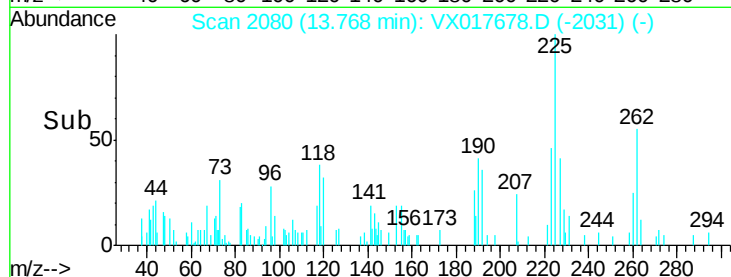
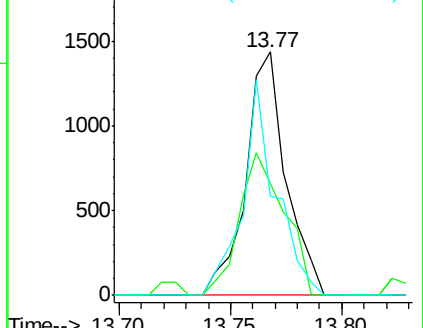
225 100

223 65.5 30.3 90.9

227 73.0 31.1 93.2



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.227 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017678.D

Acq: 30 Jul 2020 12:54

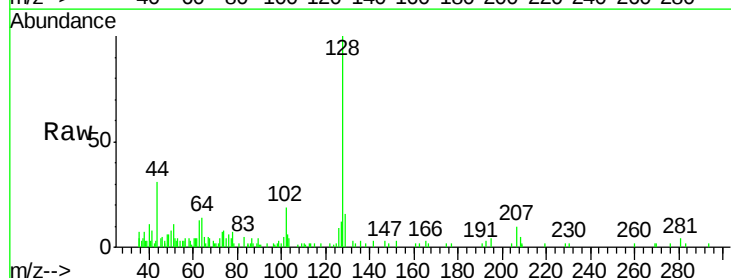
Tgt Ion:128 Resp: 6214

Ion Ratio Lower Upper

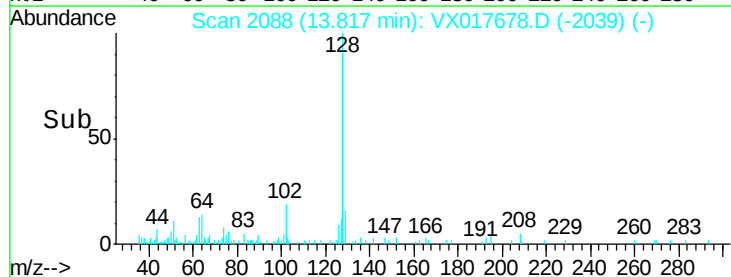
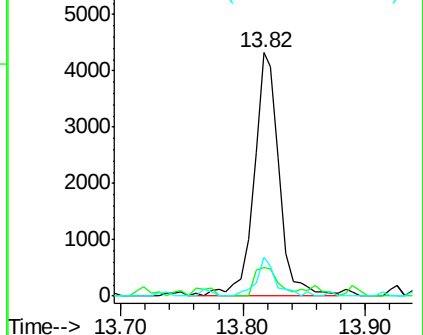
128 100

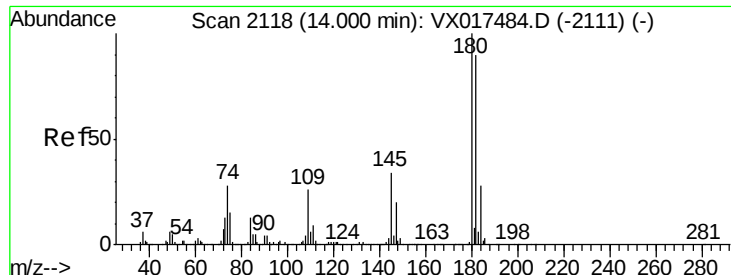
127 11.1 10.4 15.6

129 12.2 8.9 13.3



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





#96
 1,2,3-Trichlorobenzene
 Concen: 0.295 ug/l
 RT: 14.00 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VX017678.D
 Acq: 30 Jul 2020 12:54

Instrument :
 MSVOA_X
 ClientSampleId :
 PK-10S

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.5	47.4	142.3
145	43.7	16.3	48.9

