

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072720\
 Data File : VX017634.D
 Acq On : 27 Jul 2020 21:58
 Operator : JC/SP
 Sample : L3421-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SY-3

Quant Time: Jul 28 01:38:27 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	475383	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	825506	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	803321	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	472836	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	320551	52.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.98%	
35) Dibromofluoromethane	5.47	113	259172	46.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.88%	
50) Toluene-d8	8.70	98	950849	47.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.48%	
62) 4-Bromofluorobenzene	11.12	95	410919	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	

Target Compounds

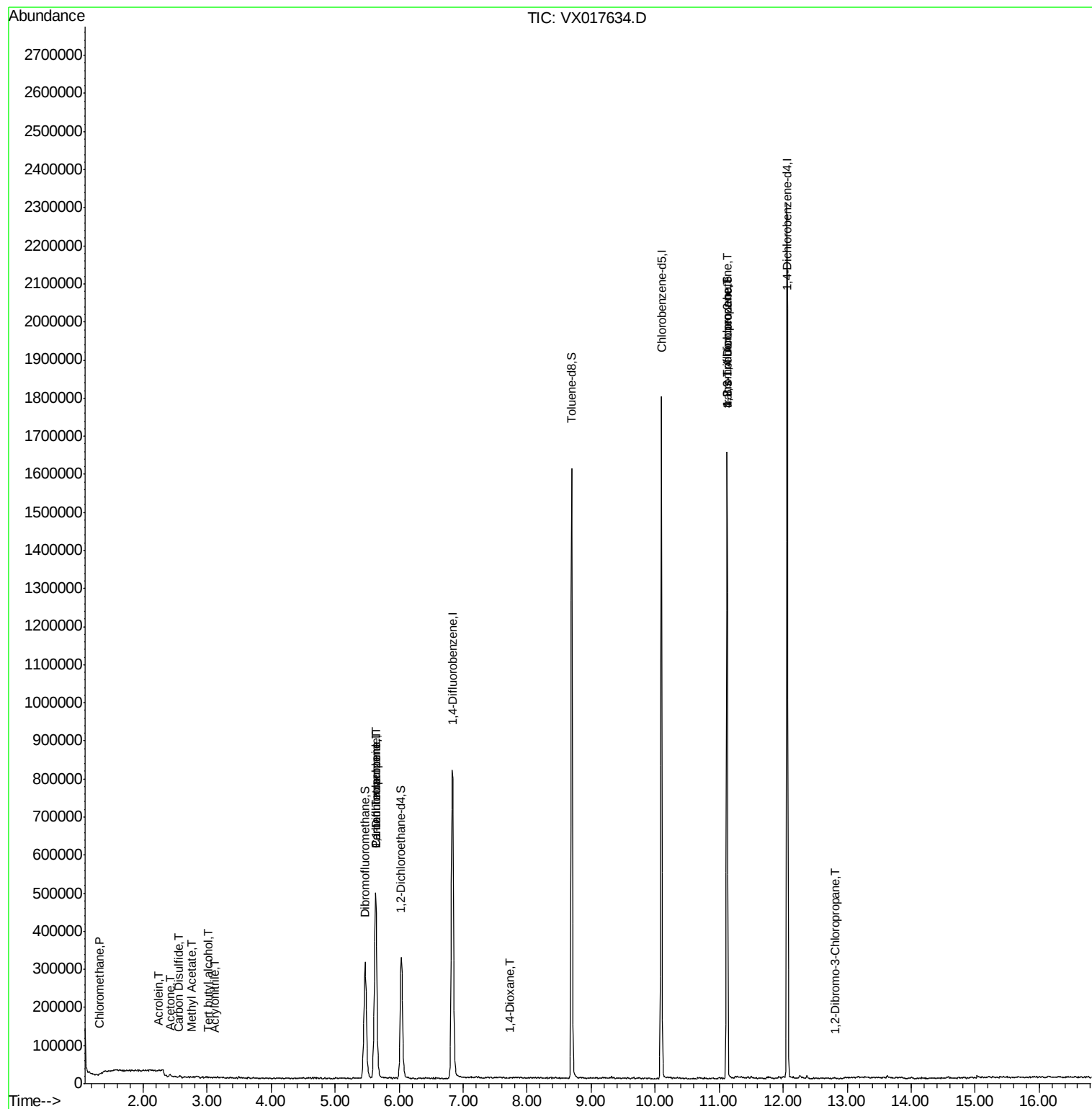
					Qvalue	
2) Dichlorodifluoromethane	1.18	85	463	Below Cal	#	61
3) Chloromethane	1.32	50	1292	0.585	ug/l #	78
5) Bromomethane	1.64	94	567	Below Cal	#	38
6) Chloroethane	1.69	64	604	Below Cal	#	81
8) Diethyl Ether	2.23	74	269	Below Cal		79
11) Tert butyl alcohol	3.01	59	470	0.365	ug/l #	72
13) Acrolein	2.25	56	438	4.587	ug/l #	1
15) Acrylonitrile	3.12	53	562	0.202	ug/l #	70
16) Acetone	2.42	43	5179	1.927	ug/l	95
17) Carbon Disulfide	2.55	76	3038	0.204	ug/l #	84
18) Methyl Acetate	2.75	43	1508	0.238	ug/l #	89
20) Methylene Chloride	2.84	84	1678	Below Cal	#	56
36) 1,1-Dichloropropene	5.64	75	34045	4.300	ug/l #	52
38) Carbon Tetrachloride	5.64	117	46958	4.884	ug/l #	16
49) 1,4-Dioxane	7.72	88	617	4.542	ug/l #	75
76) 1,2,3-Trichloropropane	11.12	75	212176	21.814	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	212176	54.967	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.82	75	105	2.611	ug/l	83

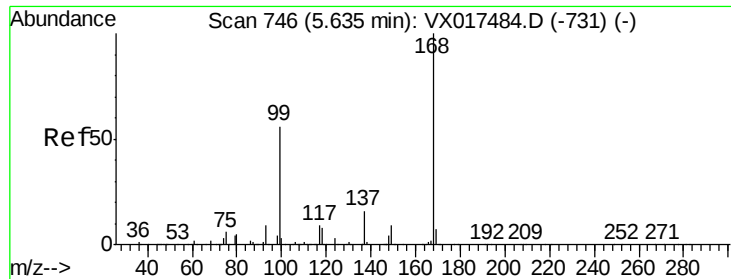
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017634.D

Acq: 27 Jul 2020 21:58

Instrument :

MSVOA_X

ClientSampleId :

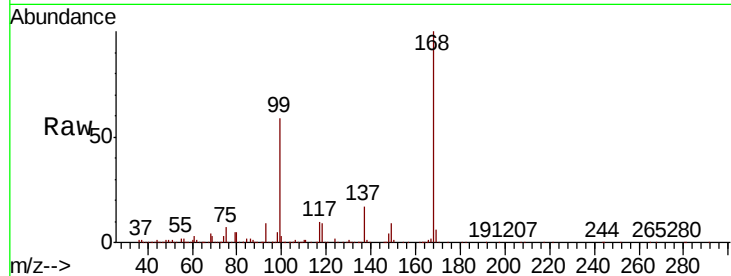
SY-3

Tot Ion:168 Resp: 475383

Ion Ratio Lower Upper

168 100

99 58.9 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

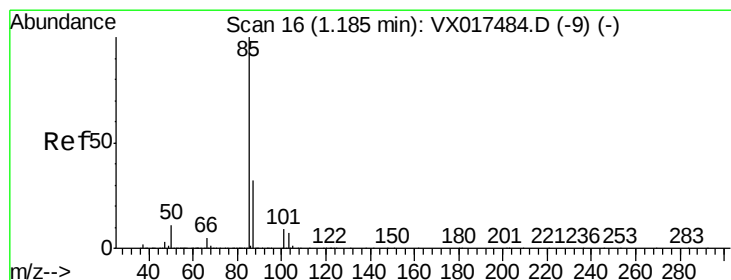
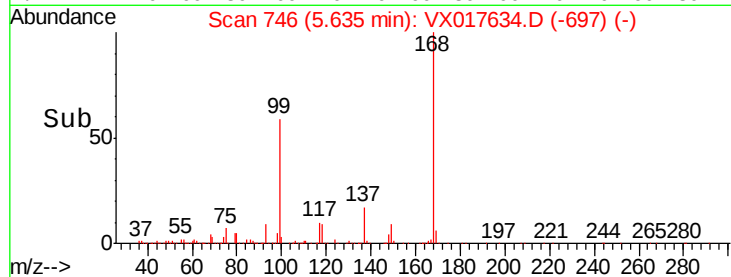
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017634.D

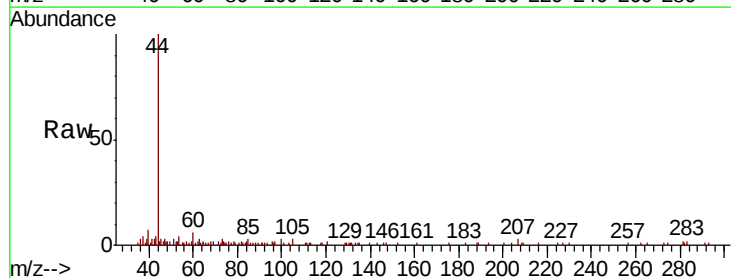
Acq: 27 Jul 2020 21:58

Tgt Ion: 85 Resp: 463

Ion Ratio Lower Upper

85 100

87 10.5 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

400

300

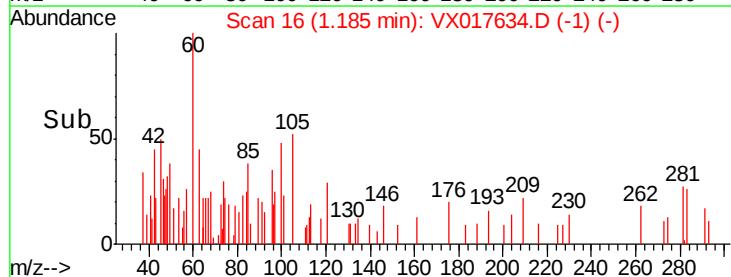
200

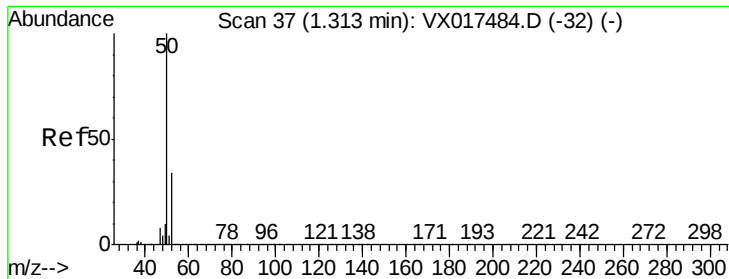
100

0

Time-->

1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.585 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017634.D

Acq: 27 Jul 2020 21:58

Instrument :

MSVOA_X

ClientSampleId :

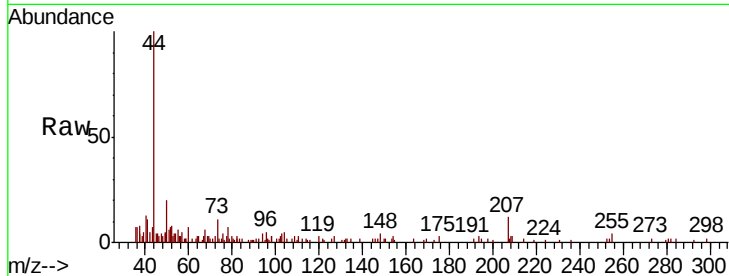
SY-3

Tot Ion: 50 Resp: 1292

Ion Ratio Lower Upper

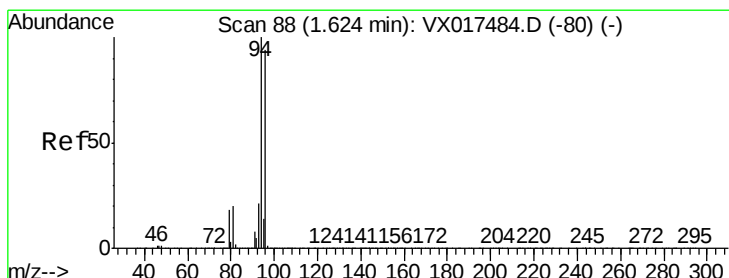
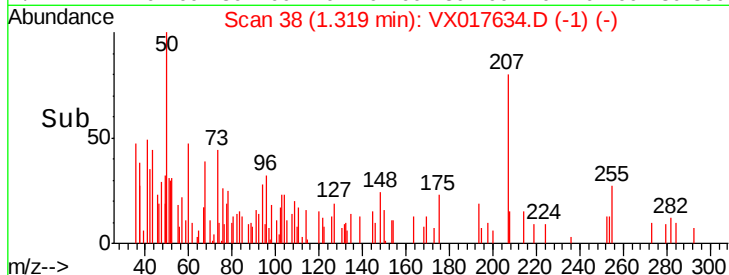
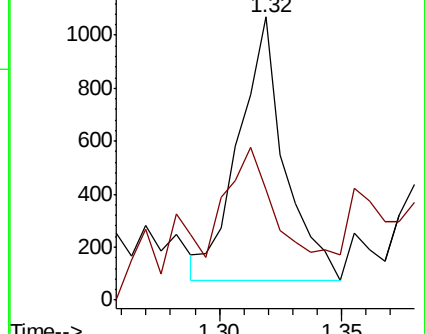
50 100

52 19.9 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017634.D

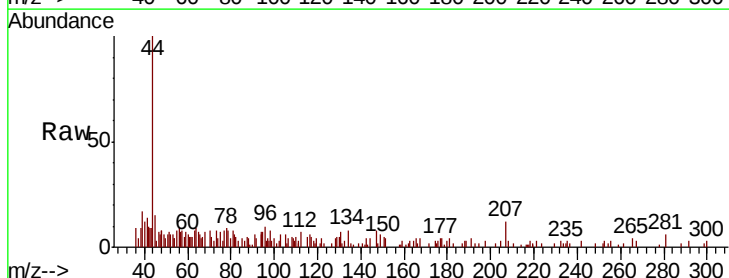
Acq: 27 Jul 2020 21:58

Tgt Ion: 94 Resp: 567

Ion Ratio Lower Upper

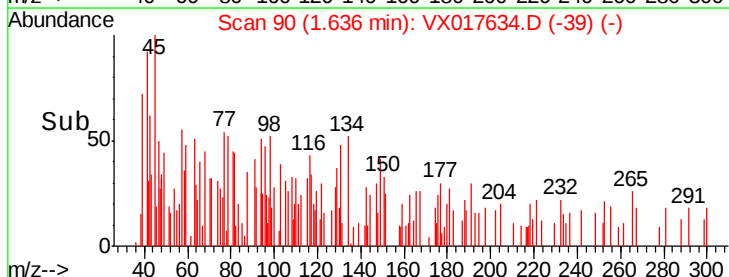
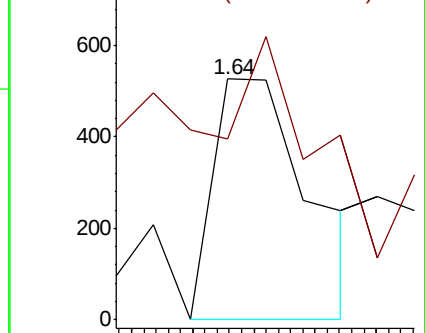
94 100

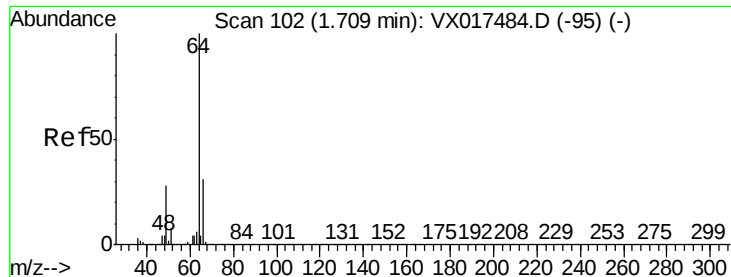
96 33.2 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 99

Delta R.T. -0.02 min

Lab File: VX017634.D

Acq: 27 Jul 2020 21:58

Instrument :

MSVOA_X

ClientSampled :

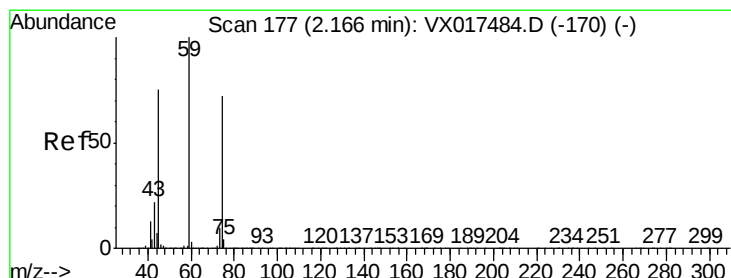
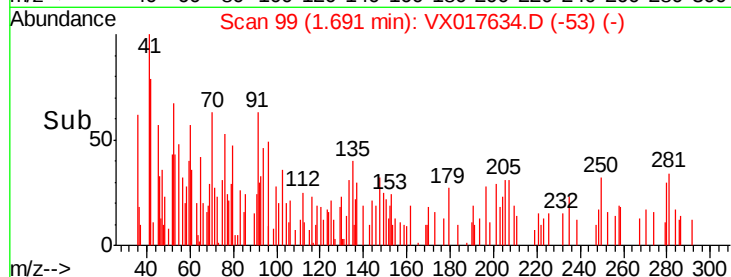
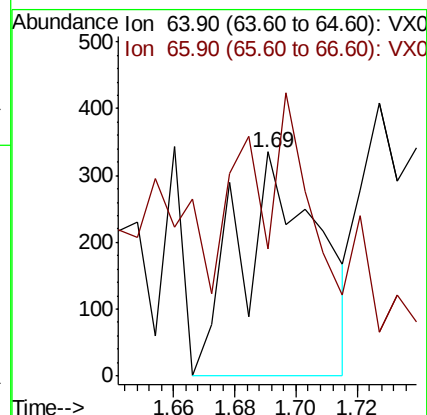
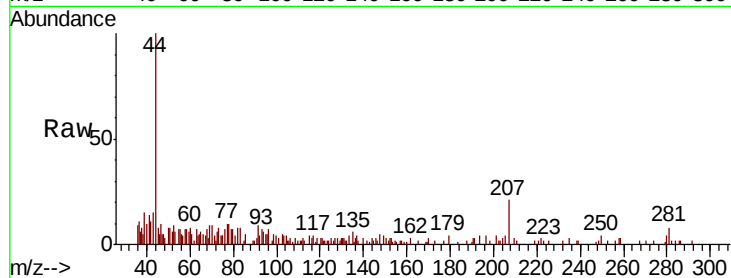
SY-3

Tot Ion: 64 Resp: 604

Ion Ratio Lower Upper

64 100

66 20.6 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.23 min Scan# 187

Delta R.T. 0.06 min

Lab File: VX017634.D

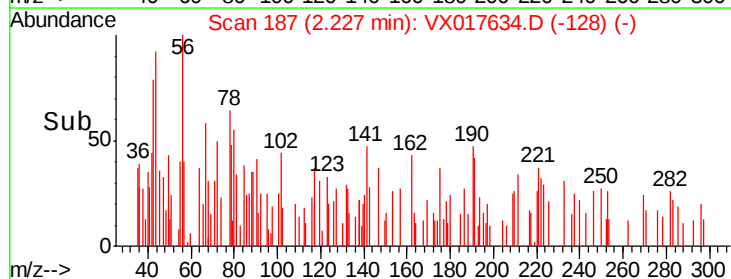
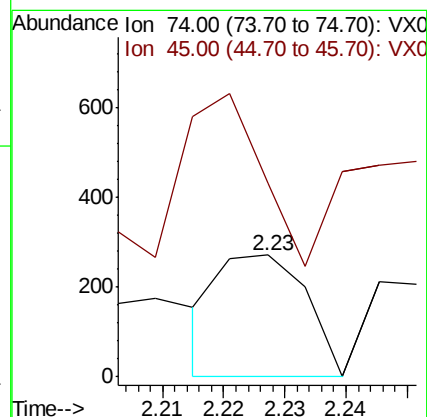
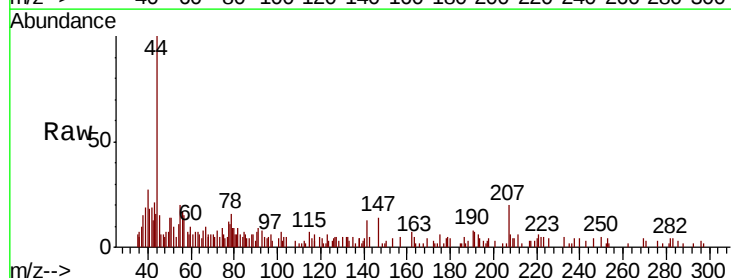
Acq: 27 Jul 2020 21:58

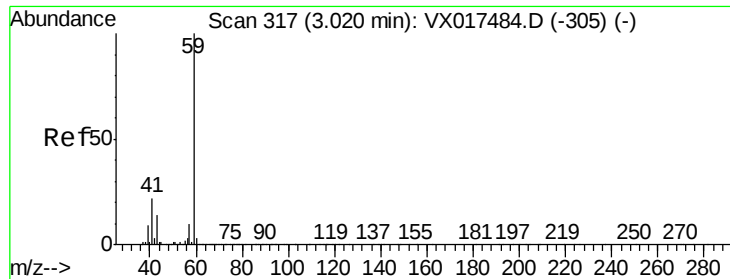
Tgt Ion: 74 Resp: 269

Ion Ratio Lower Upper

74 100

45 123.0 50.8 152.5



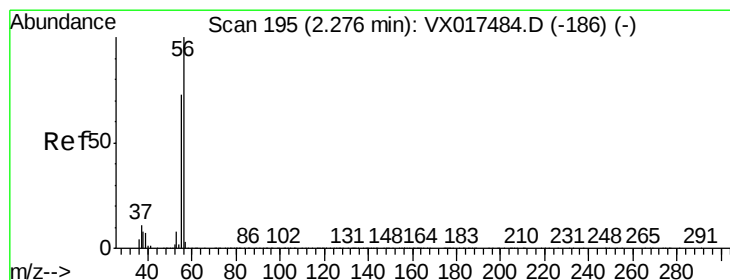
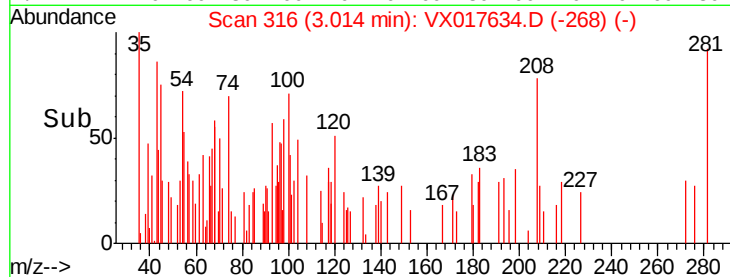
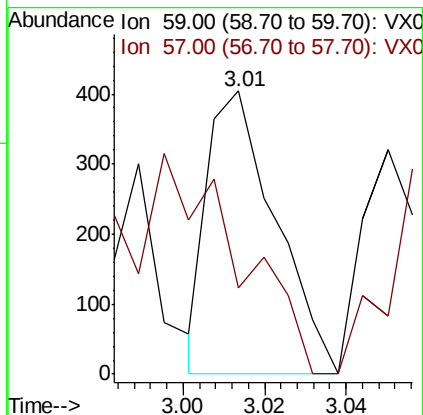
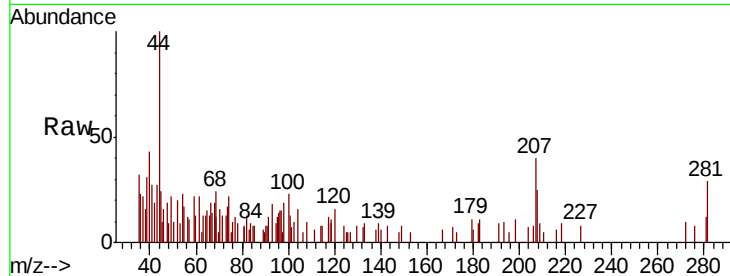


#11

Tert butyl alcohol
Concen: 0.365 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX017634.D
Acq: 27 Jul 2020 21:58

Instrument :
MSVOA_X
ClientSampled :
SY-3

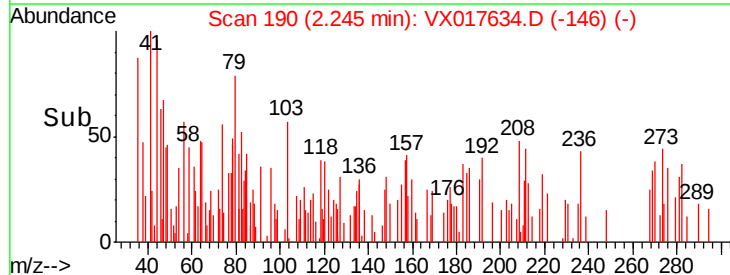
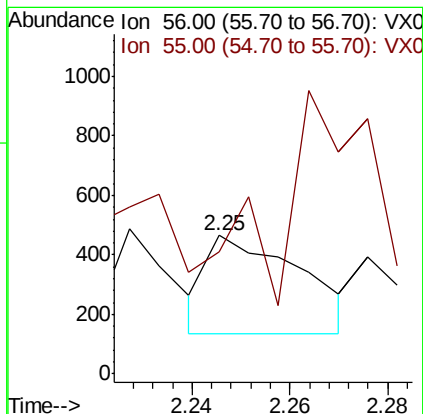
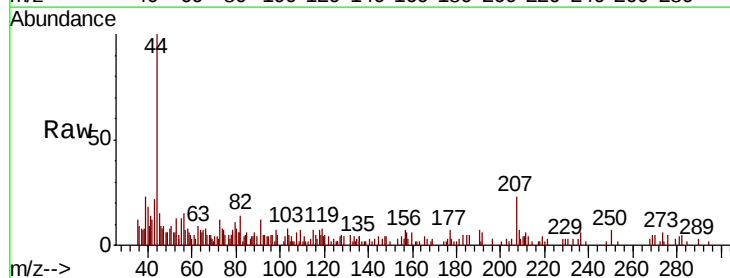
Tot Ion: 59 Resp: 470
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

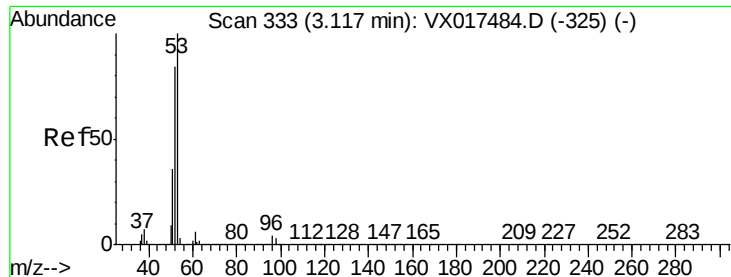


#13

Acrolein
Concen: 4.587 ug/l
RT: 2.25 min Scan# 190
Delta R.T. -0.03 min
Lab File: VX017634.D
Acq: 27 Jul 2020 21:58

Tgt Ion: 56 Resp: 438
Ion Ratio Lower Upper
56 100
55 247.9 57.4 86.2#





#15

Acrylonitrile

Concen: 0.202 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX017634.D

Acq: 27 Jul 2020 21:58

Instrument :

MSVOA_X

ClientSampled :

SY-3

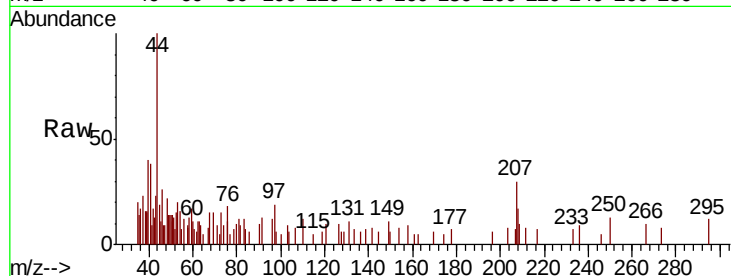
Tot Ion: 53 Resp: 562

Ion Ratio Lower Upper

53 100

52 119.6 66.6 99.8#

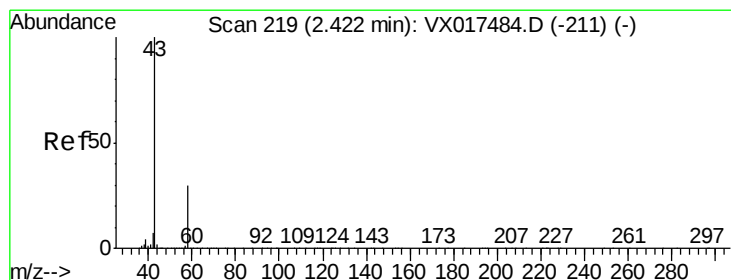
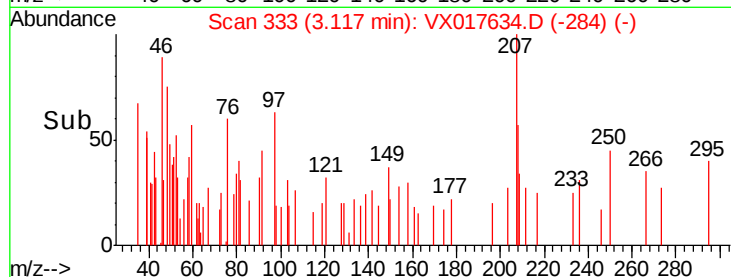
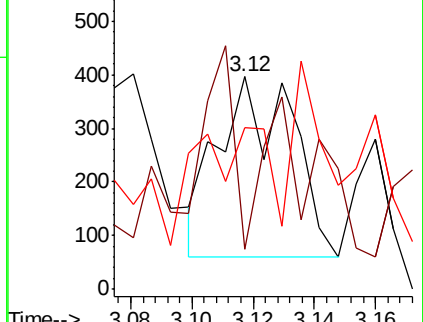
51 32.4 29.4 44.2



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.927 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017634.D

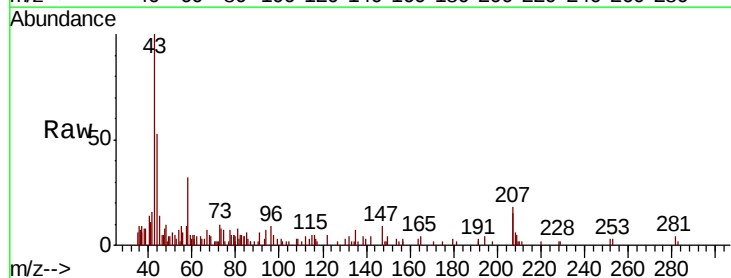
Acq: 27 Jul 2020 21:58

Tgt Ion: 43 Resp: 5179

Ion Ratio Lower Upper

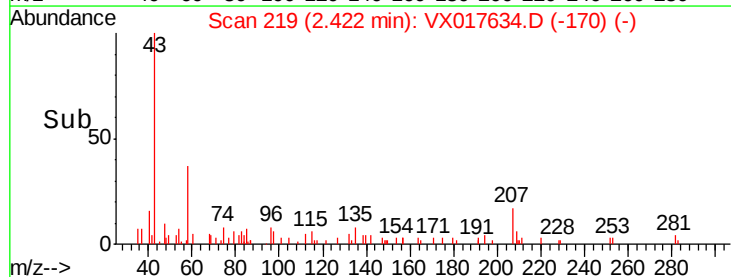
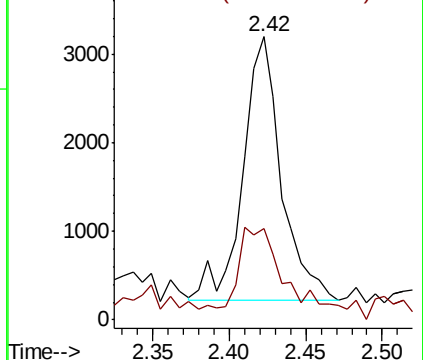
43 100

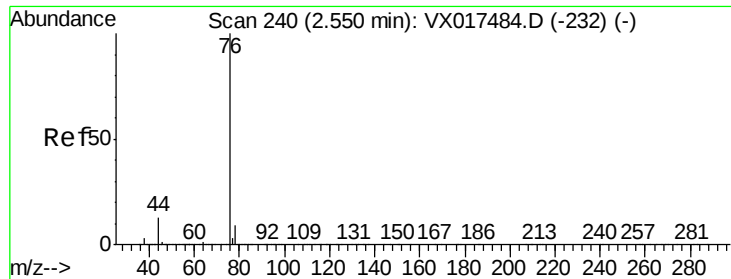
58 27.6 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

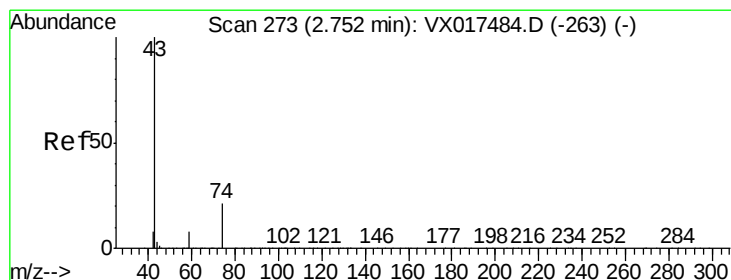
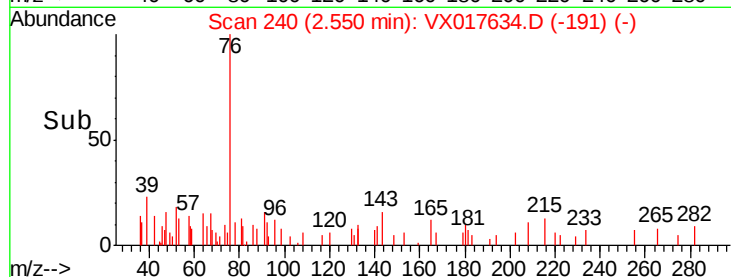
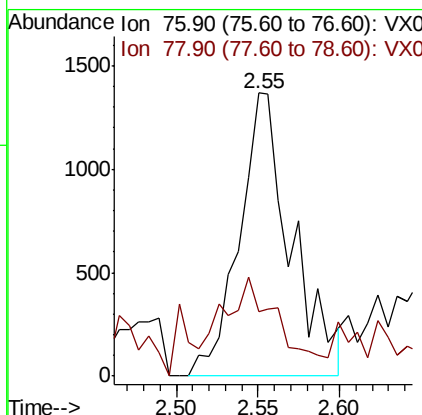
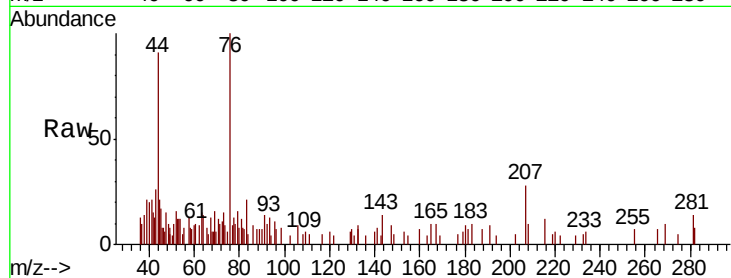




#17
Carbon Disulfide
Concen: 0.204 ug/l
RT: 2.55 min Scan# 240
Delta R.T. -0.00 min
Lab File: VX017634.D
Acq: 27 Jul 2020 21:58

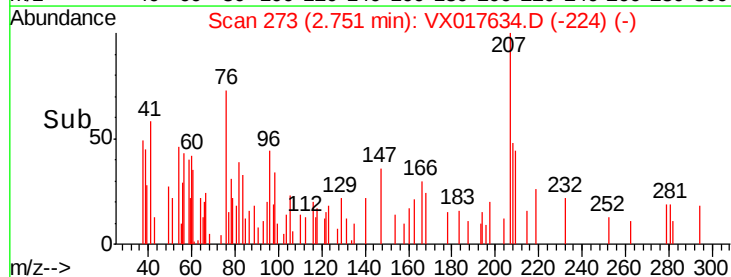
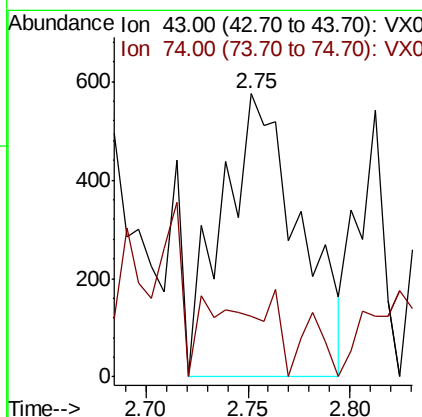
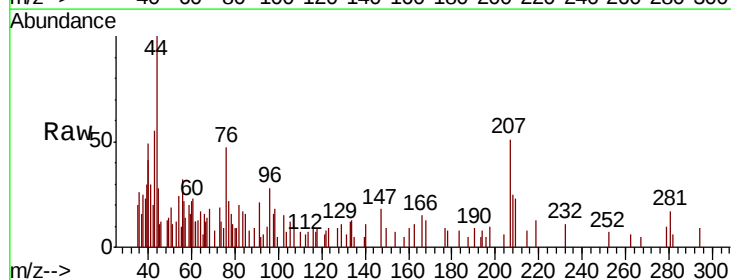
Instrument :
MSVOA_X
ClientSampleId :
SY-3

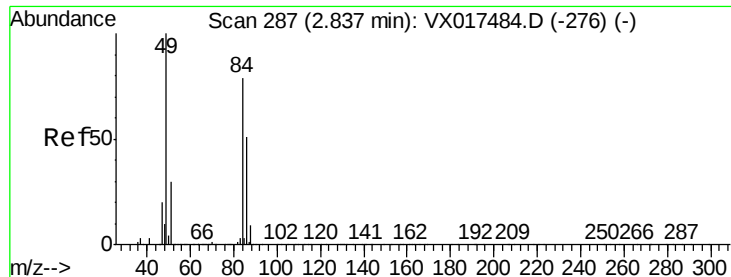
Tot Ion: 76 Resp: 3038
Ion Ratio Lower Upper
76 100
78 3.7 7.5 11.3#



#18
Methyl Acetate
Concen: 0.238 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX017634.D
Acq: 27 Jul 2020 21:58

Tgt Ion: 43 Resp: 1508
Ion Ratio Lower Upper
43 100
74 16.5 17.5 26.3#

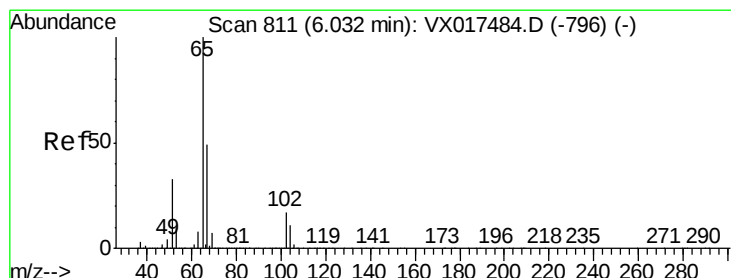
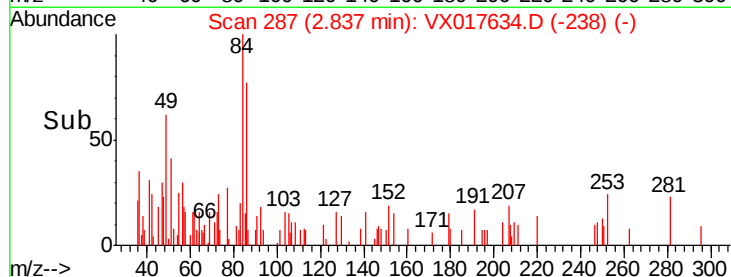
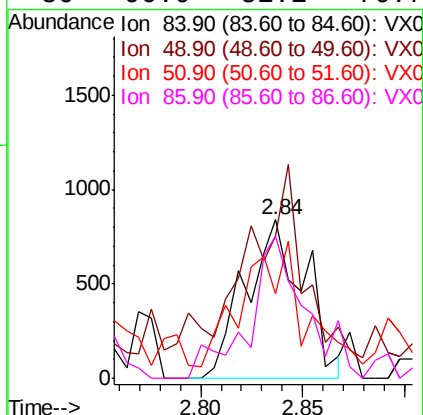
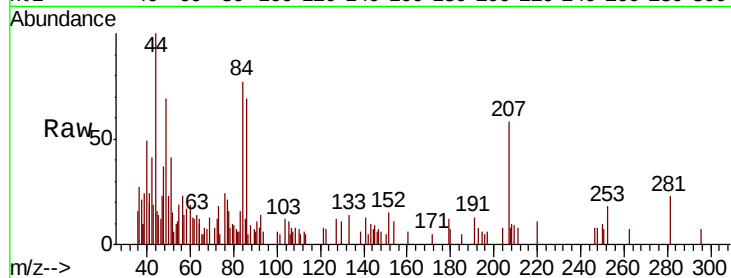




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017634.D
Acq: 27 Jul 2020 21:58

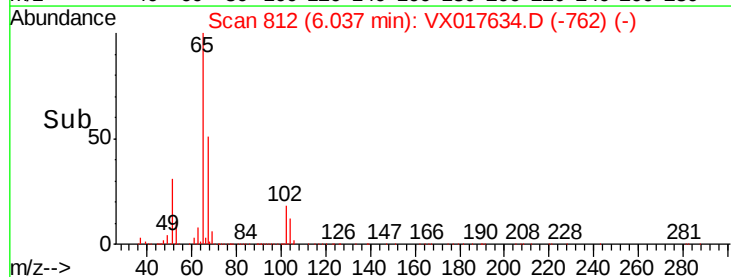
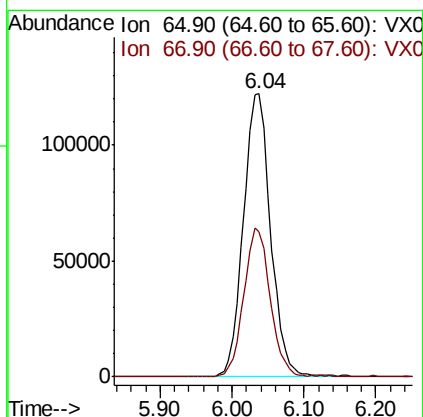
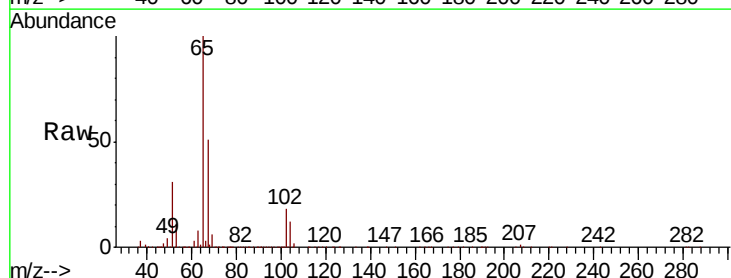
Instrument :
MSVOA_X
ClientSampleId :
SY-3

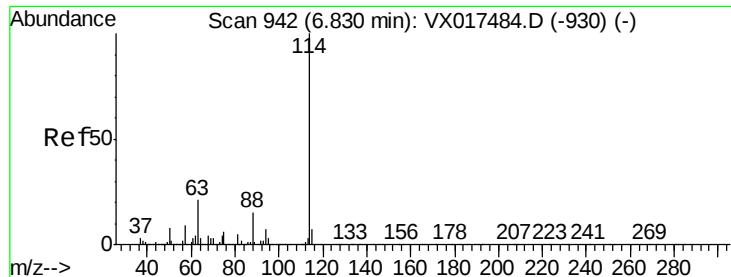
Tot Ion: 84 Resp: 1678
Ion Ratio Lower Upper
84 100
49 57.4 100.3 150.5#
51 45.9 30.5 45.7#
86 90.0 51.1 76.7#



#33
1,2-Dichloroethane-d4
Concen: 52.493 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX017634.D
Acq: 27 Jul 2020 21:58

Tgt Ion: 65 Resp: 320551
Ion Ratio Lower Upper
65 100
67 50.8 0.0 102.8

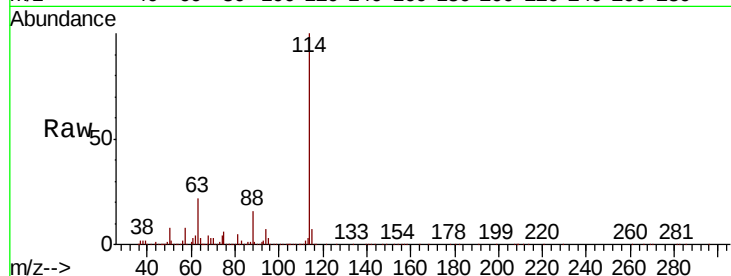




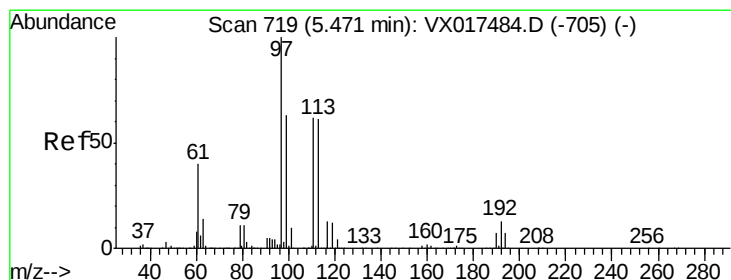
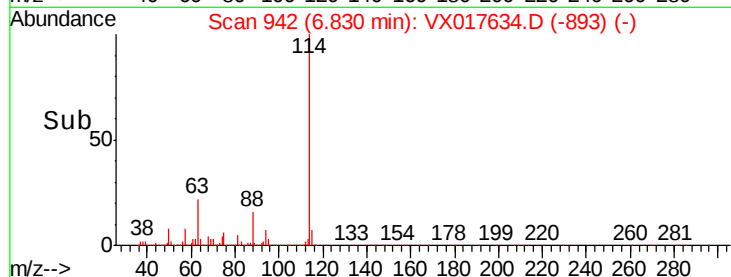
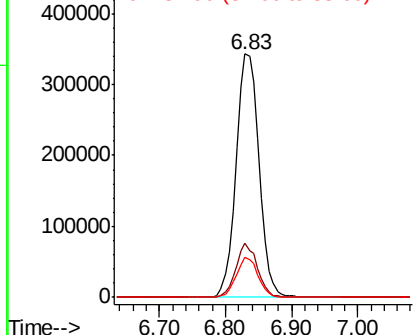
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017634.D
 Acq: 27 Jul 2020 21:58

Instrument :
 MSVOA_X
 ClientSampleId :
 SY-3

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	40.6
88	16.5	0.0	33.4

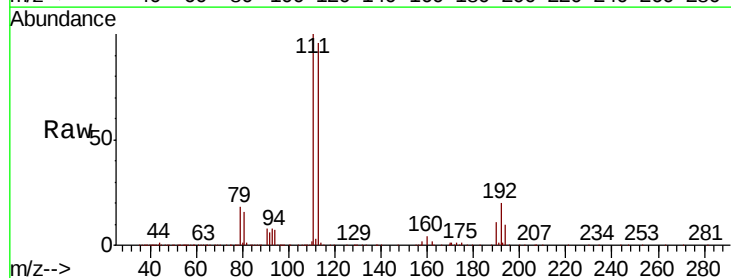


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

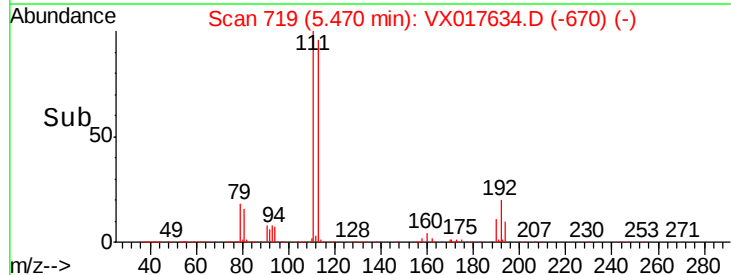
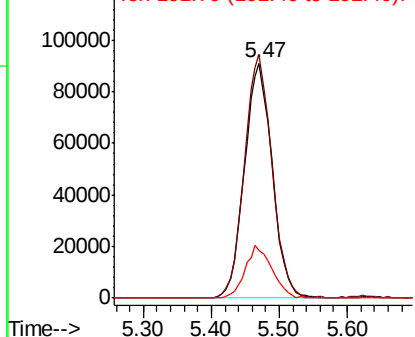


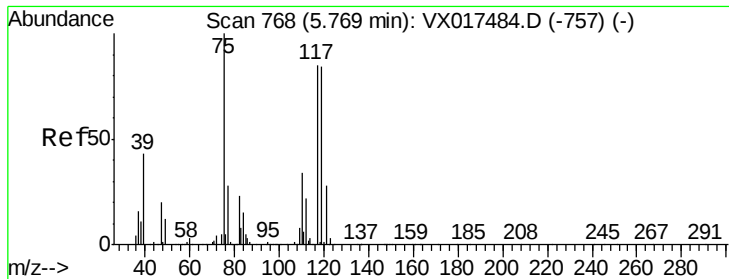
#35
 Dibromofluoromethane
 Concen: 46.943 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX017634.D
 Acq: 27 Jul 2020 21:58

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	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





#36

1,1-Dichloropropene

Concen: 4.300 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX017634.D

Acq: 27 Jul 2020 21:58

Instrument :

MSVOA_X

ClientSampleId :

SY-3

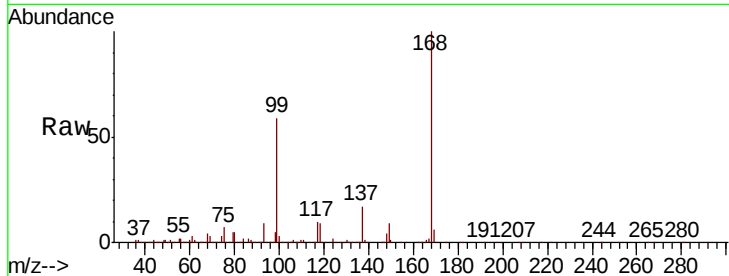
Tot Ion: 75 Resp: 34045

Ion Ratio Lower Upper

75 100

110 10.7 18.1 54.3#

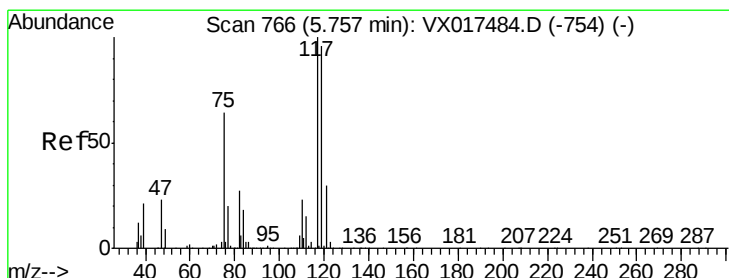
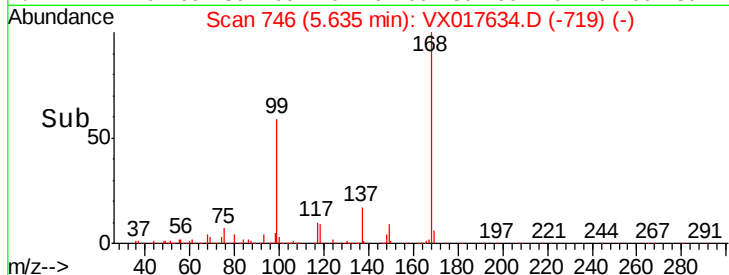
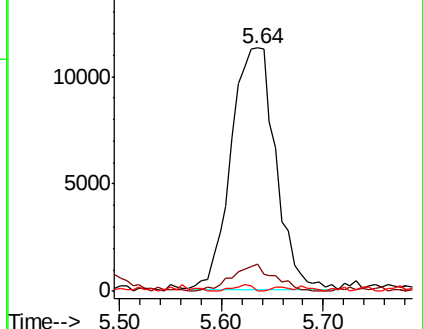
77 1.1 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 4.884 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017634.D

Acq: 27 Jul 2020 21:58

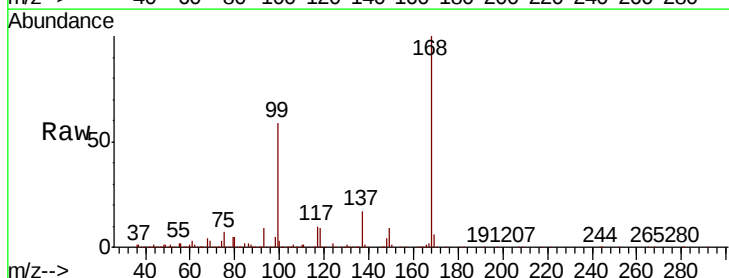
Tgt Ion: 117 Resp: 46958

Ion Ratio Lower Upper

117 100

119 4.4 75.4 113.0#

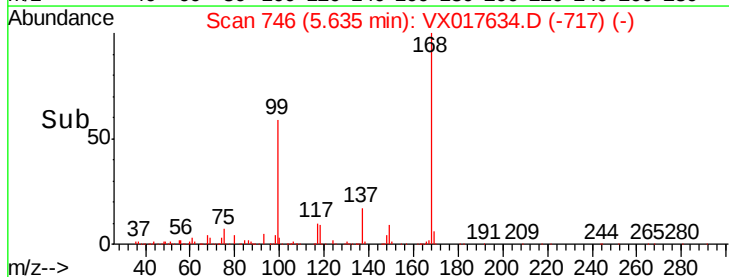
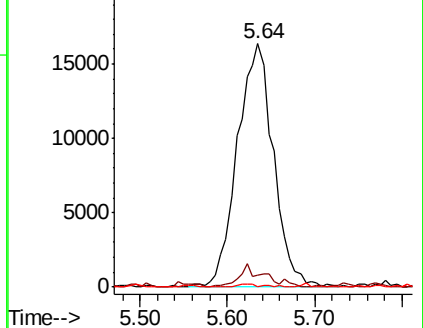
121 0.0 24.3 36.5#

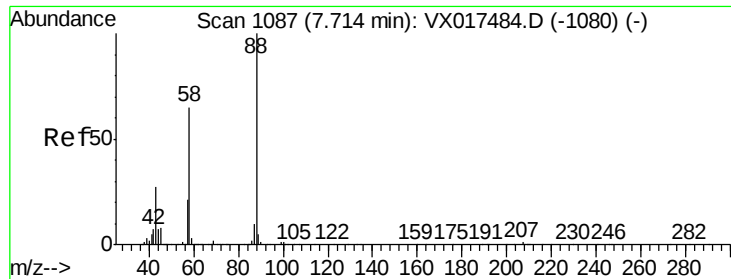


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

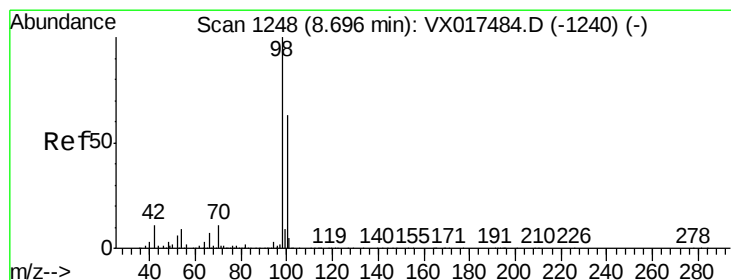
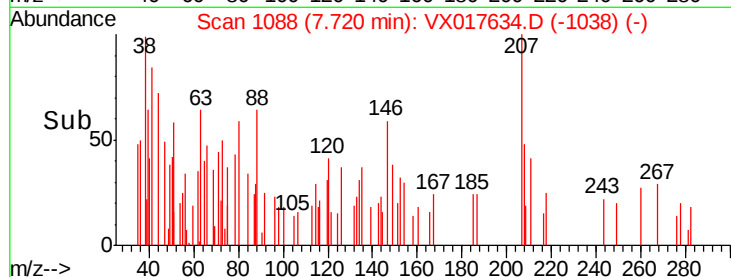
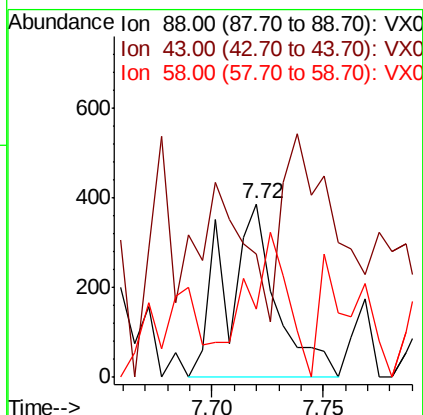
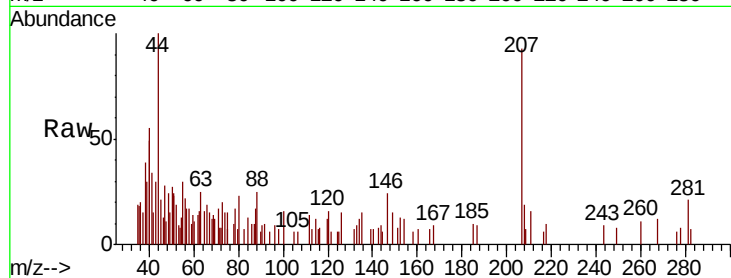




#49
1,4-Dioxane
Concen: 4.542 ug/l
RT: 7.72 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX017634.D
Acq: 27 Jul 2020 21:58

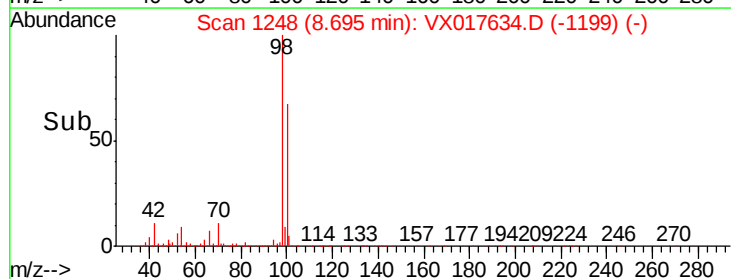
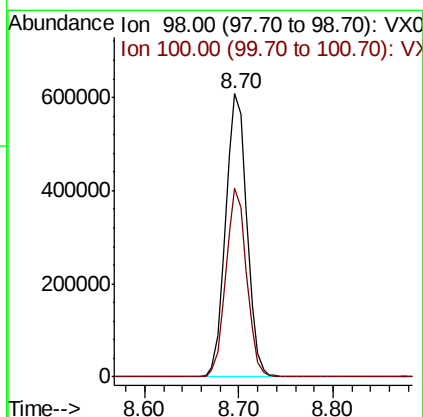
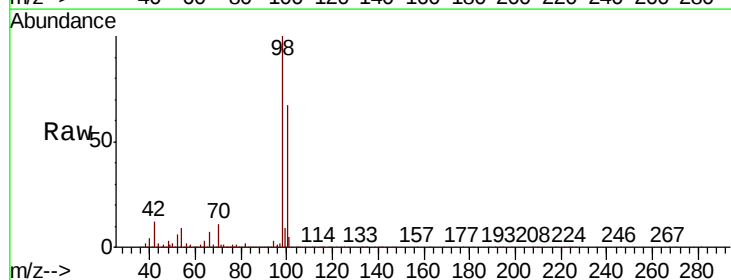
Instrument :
MSVOA_X
ClientSampled :
SY-3

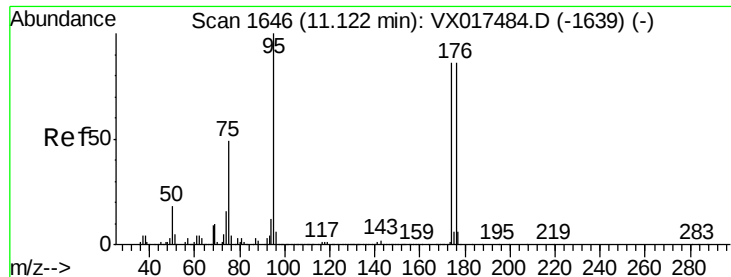
Tot Ion: 88 Resp: 617
Ion Ratio Lower Upper
88 100
43 0.0 27.8 41.6#
58 65.5 58.3 87.5



#50
Toluene-d8
Concen: 47.741 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017634.D
Acq: 27 Jul 2020 21:58

Tgt Ion: 98 Resp: 950849
Ion Ratio Lower Upper
98 100
100 64.9 52.3 78.5





#62

4-Bromofluorobenzene

Concen: 51.553 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017634.D

Acq: 27 Jul 2020 21:58

Instrument :

MSVOA_X

ClientSampleId :

SY-3

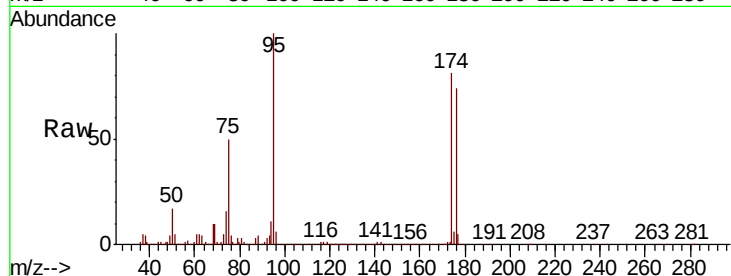
Tot Ion: 95 Resp: 410919

Ion Ratio Lower Upper

95 100

174 85.4 0.0 169.0

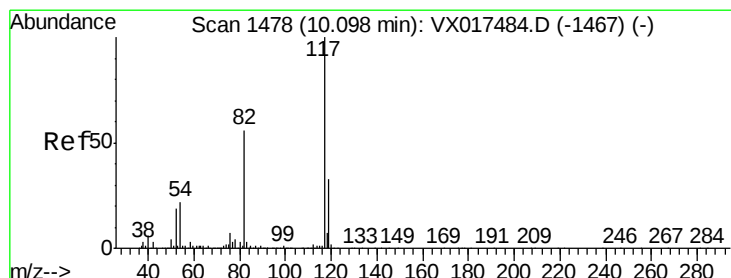
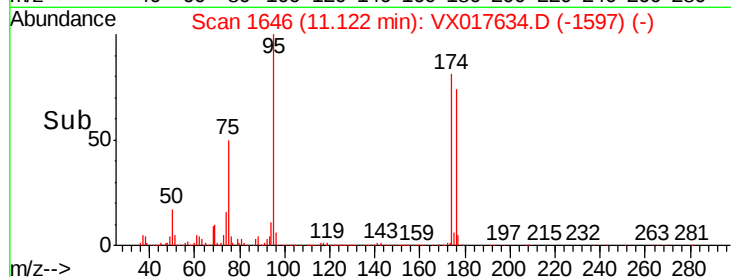
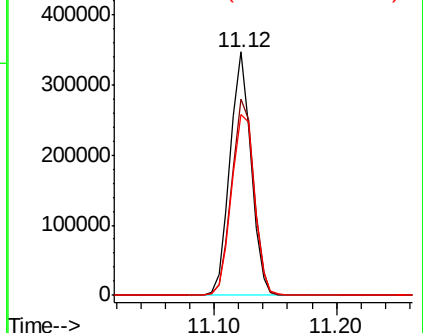
176 81.9 0.0 161.0



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: VX017634.D

Acq: 27 Jul 2020 21:58

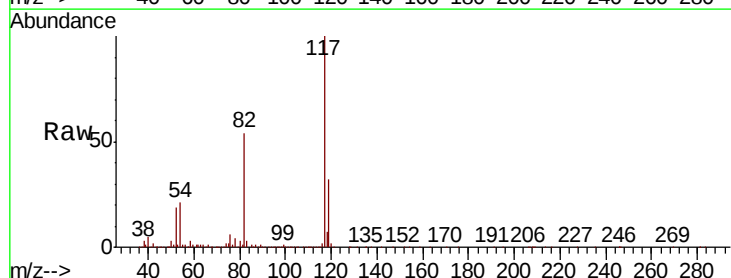
Tgt Ion: 117 Resp: 803321

Ion Ratio Lower Upper

117 100

82 54.1 44.0 66.0

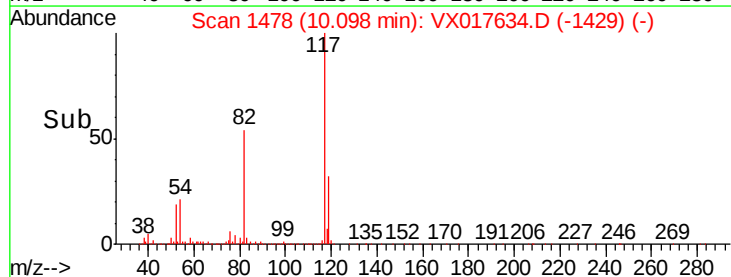
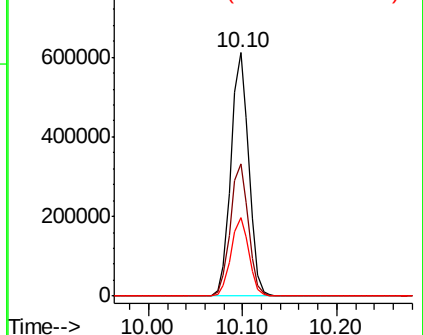
119 32.5 25.4 38.0

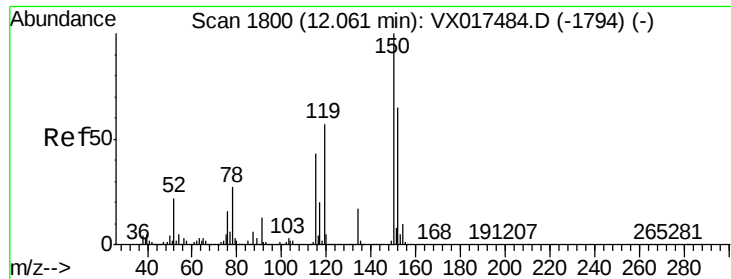


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX017634.D

Acq: 27 Jul 2020 21:58

Instrument :

MSVOA_X

ClientSampleId :

SY-3

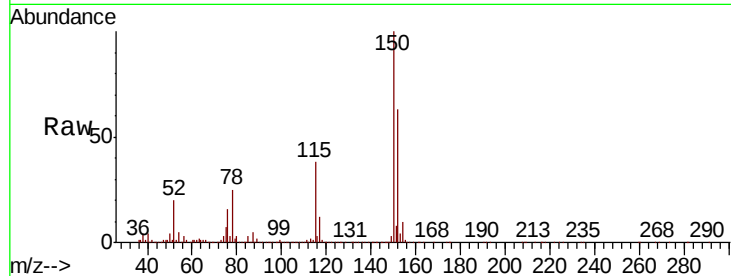
Tot Ion:152 Resp: 472836

Ion Ratio Lower Upper

152 100

115 57.9 65.5 196.6#

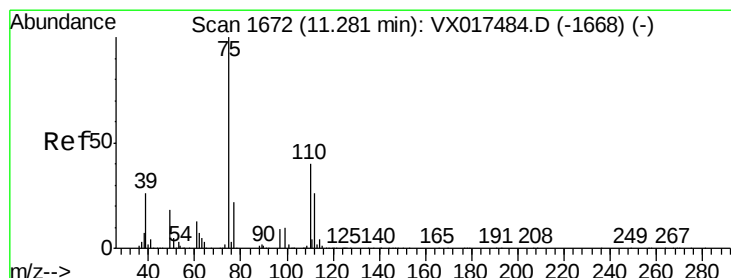
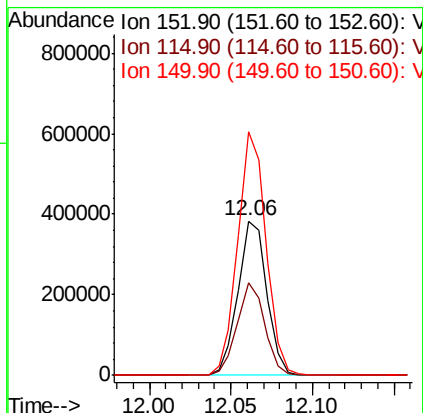
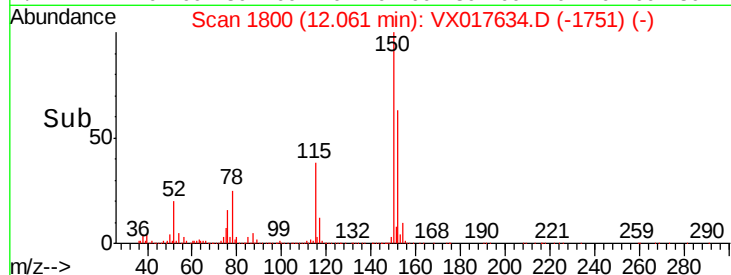
150 154.8 0.0 412.6



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: 21.814 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017634.D

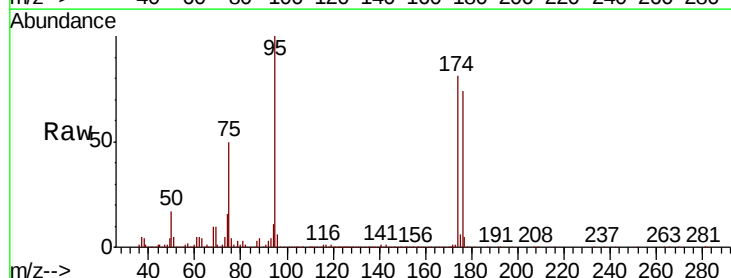
Acq: 27 Jul 2020 21:58

Tgt Ion: 75 Resp: 212176

Ion Ratio Lower Upper

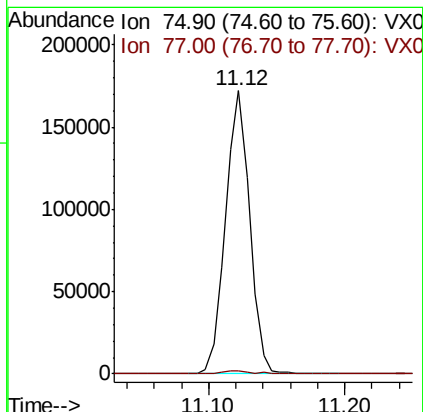
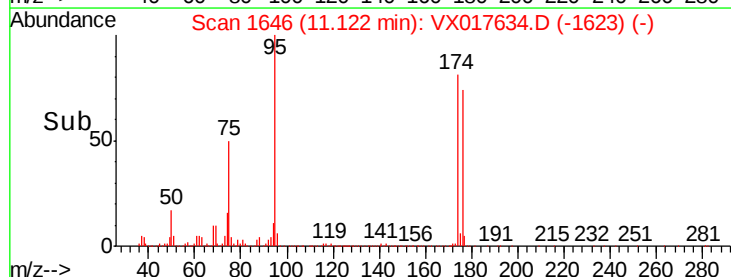
75 100

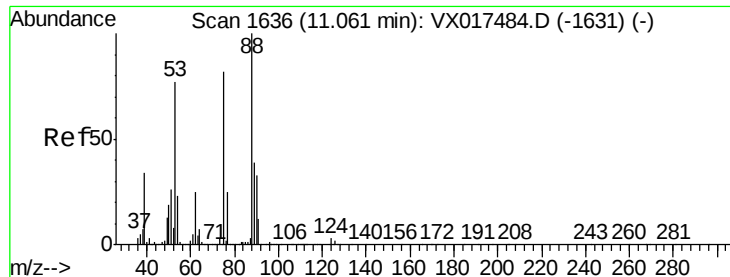
77 1.3 21.8 65.3#



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: 54.967 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017634.D

Acq: 27 Jul 2020 21:58

Instrument :

MSVOA_X

ClientSampleId :

SY-3

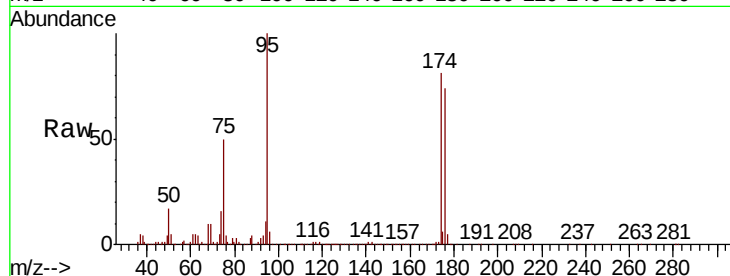
Tot Ion: 75 Resp: 212176

Ion Ratio Lower Upper

75 100

53 0.2 75.9 113.9#

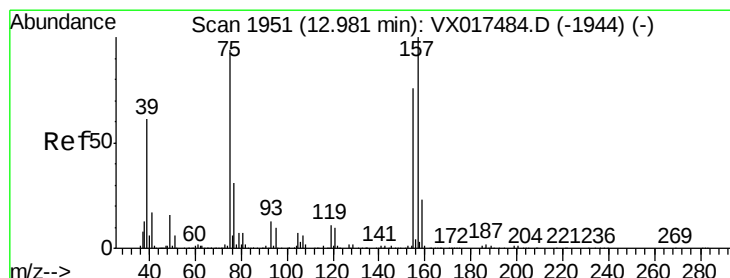
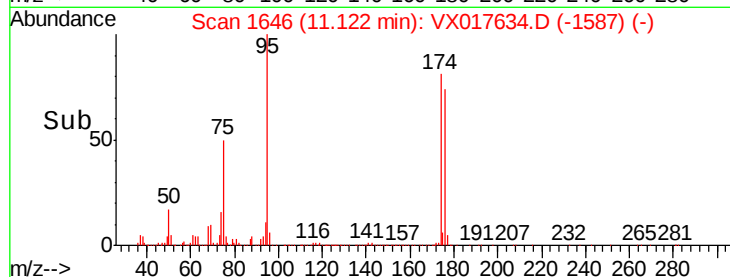
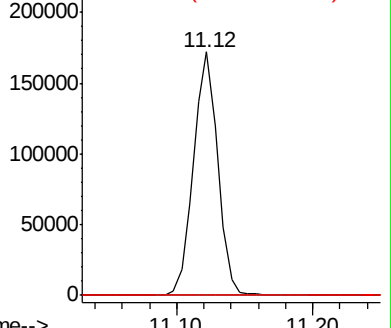
89 0.0 37.8 56.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.611 ug/l

RT: 12.82 min Scan# 1924

Delta R.T. -0.16 min

Lab File: VX017634.D

Acq: 27 Jul 2020 21:58

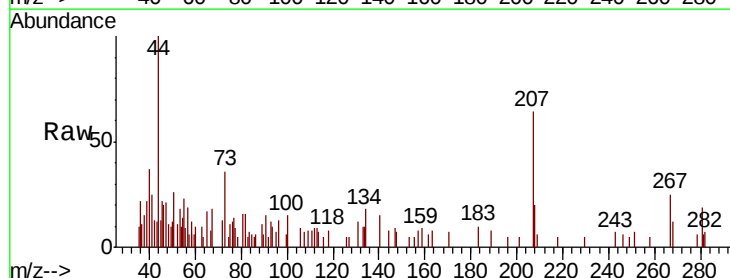
Tgt Ion: 75 Resp: 105

Ion Ratio Lower Upper

75 100

155 88.6 42.3 126.8

157 81.0 54.3 162.9



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

