

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062620\
 Data File : VX016974.D
 Acq On : 26 Jun 2020 11:42
 Operator : JC/SP
 Sample : L3020-24
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 03:00:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 26 08:34:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	203258	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	362168	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	366398	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	185997	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	154760	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
35) Dibromofluoromethane	5.46	113	118889	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
50) Toluene-d8	8.70	98	454064	51.79	ug/l	0.00
Spiked Amount			Recovery	=	103.58%	
62) 4-Bromofluorobenzene	11.12	95	180636	53.28	ug/l	0.00
Spiked Amount			Recovery	=	106.56%	

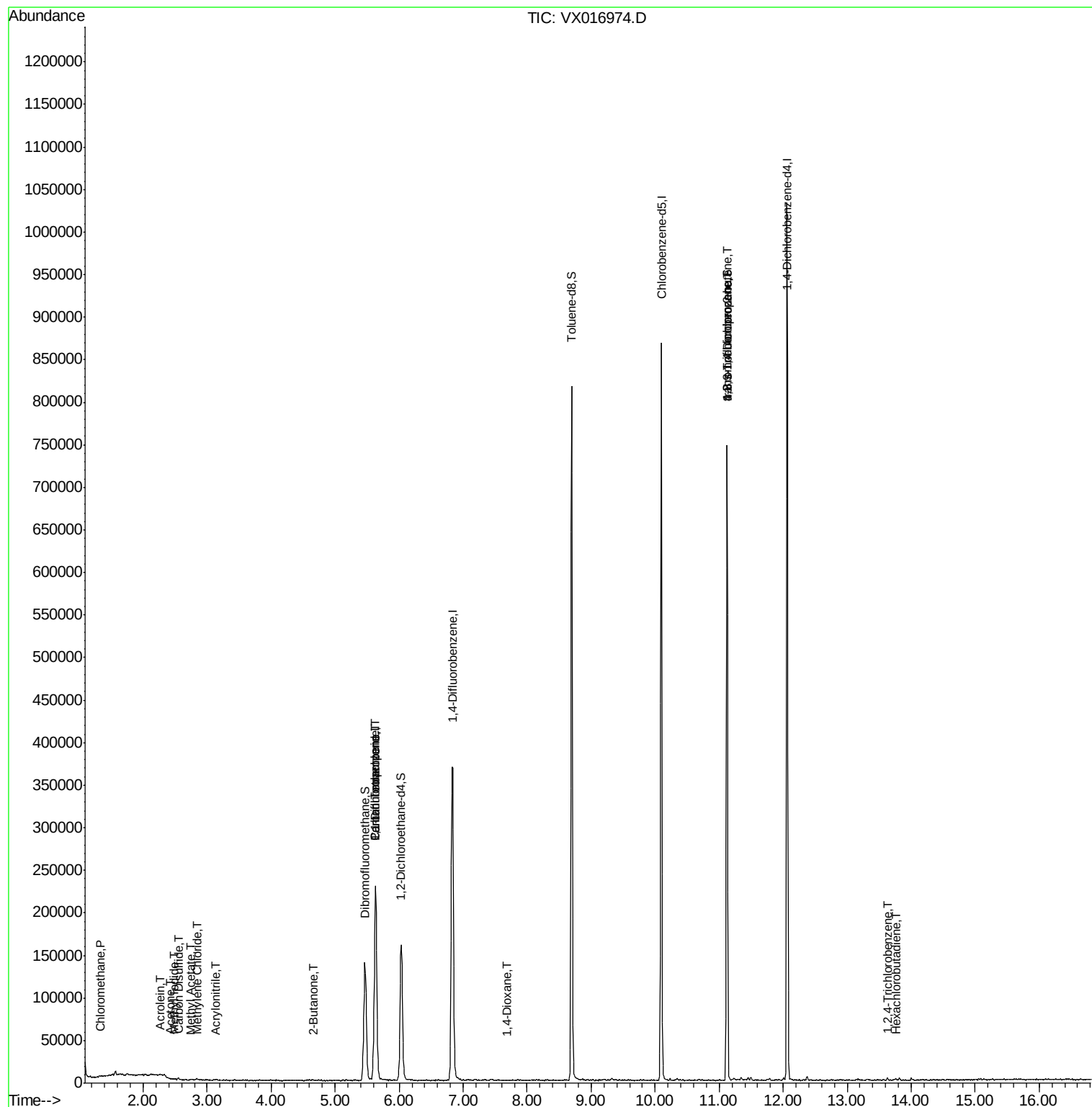
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	729	0.293	ug/l	90
5) Bromomethane	1.64	94	410	Below Cal	#	38
10) Methyl Iodide	2.50	142	530	2.963	ug/l #	85
13) Acrolein	2.26	56	473	1.101	ug/l	91
15) Acrylonitrile	3.12	53	378	0.281	ug/l #	2
16) Acetone	2.42	43	1098	0.915	ug/l #	55
17) Carbon Disulfide	2.55	76	2062	0.289	ug/l #	93
18) Methyl Acetate	2.75	43	856	0.293	ug/l	98
20) Methylene Chloride	2.83	84	719	0.264	ug/l #	76
25) 2-Butanone	4.66	43	371	0.203	ug/l #	50
36) 1,1-Dichloropropene	5.63	75	17753	4.951	ug/l #	52
38) Carbon Tetrachloride	5.64	117	21883	5.766	ug/l #	16
49) 1,4-Dioxane	7.70	88	27	0.429	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	102045	26.143	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	102045	66.373	ug/l #	9
93) 1,2,4-Trichlorobenzene	13.63	180	783	0.213	ug/l #	79
94) Hexachlorobutadiene	13.77	225	292	0.221	ug/l	82

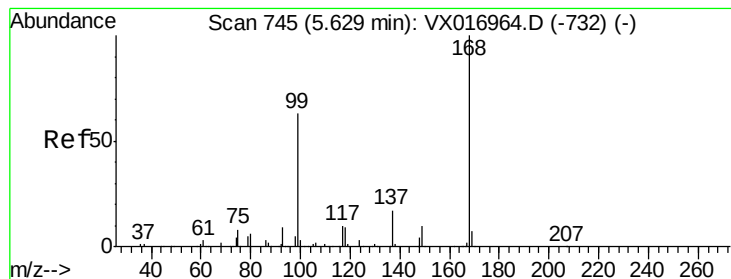
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jun 26 08:34:16 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

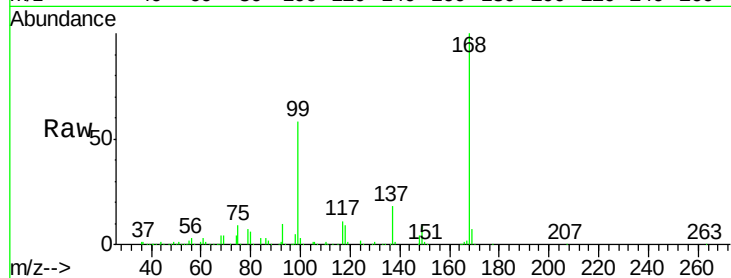
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 203258

Ion Ratio Lower Upper

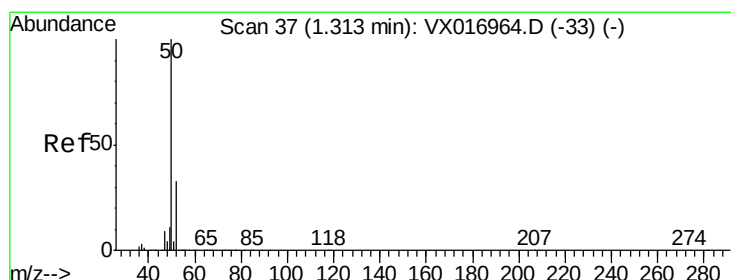
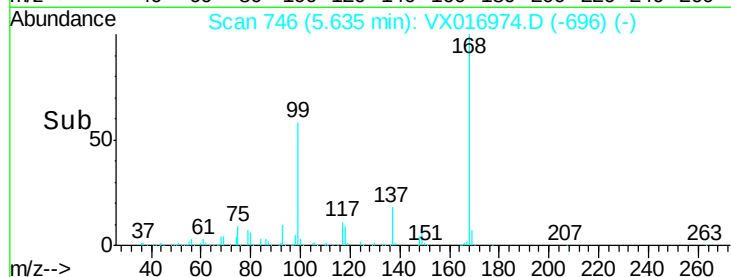
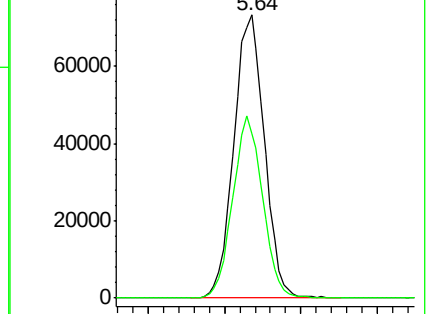
168 100

99 57.8 50.2 75.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.293 ug/l

RT: 1.33 min Scan# 40

Delta R.T. 0.02 min

Lab File: VX016974.D

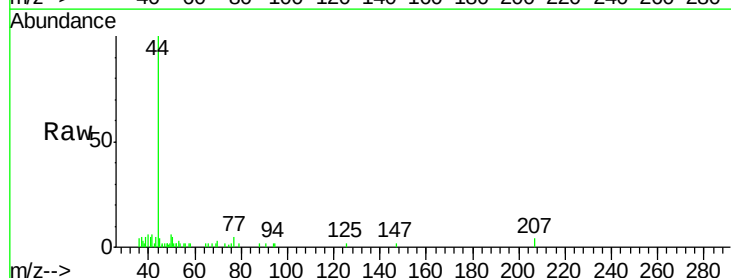
Acq: 26 Jun 2020 11:42

Tgt Ion: 50 Resp: 729

Ion Ratio Lower Upper

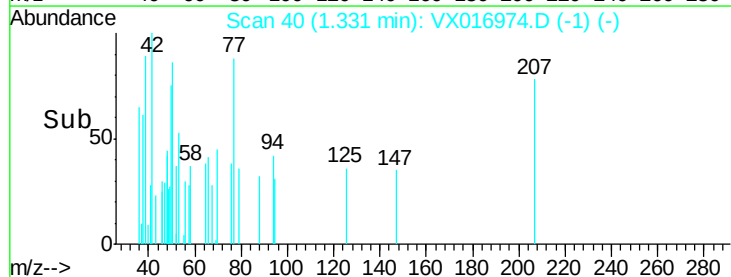
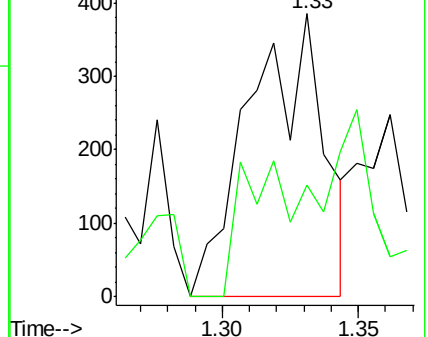
50 100

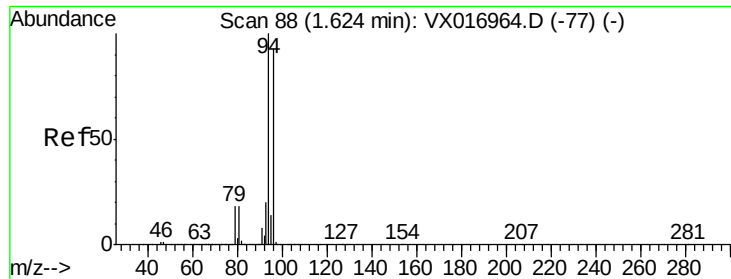
52 39.2 26.6 40.0



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: VX016974.D

Acq: 26 Jun 2020 11:42

Instrument :

MSVOA_X

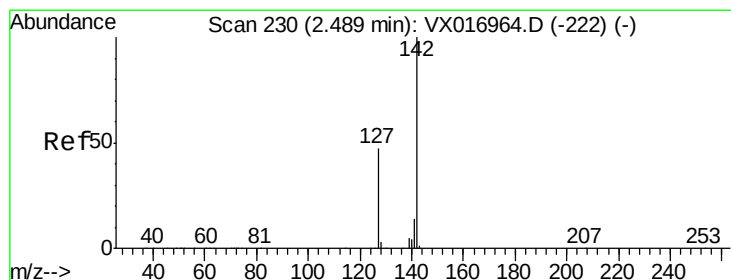
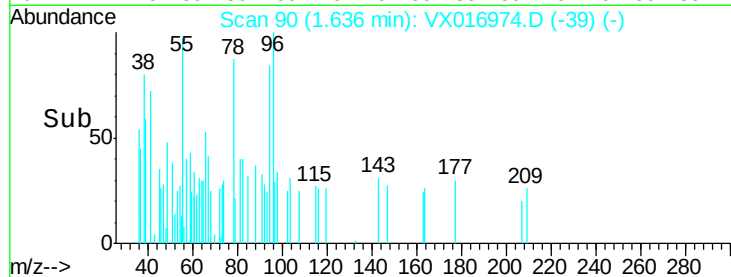
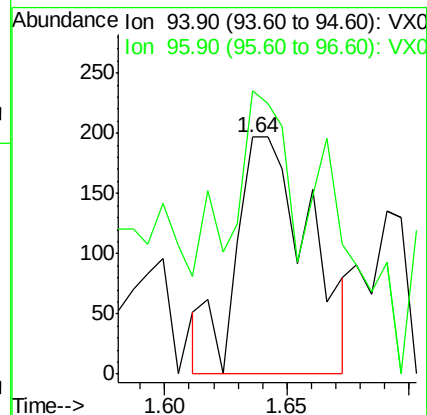
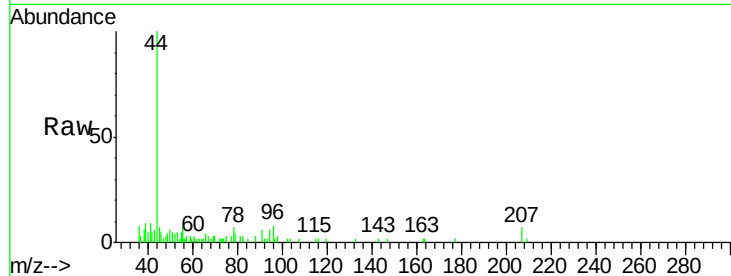
ClientSampled :

Tot Ion: 94 Resp: 410

Ion Ratio Lower Upper

94 100

96 152.1 74.2 111.2#



#10

Methyl Iodide

Concen: 2.963 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

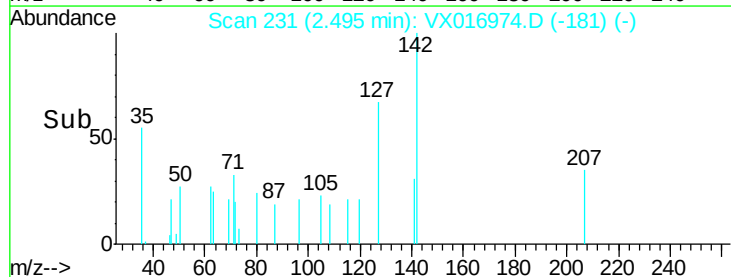
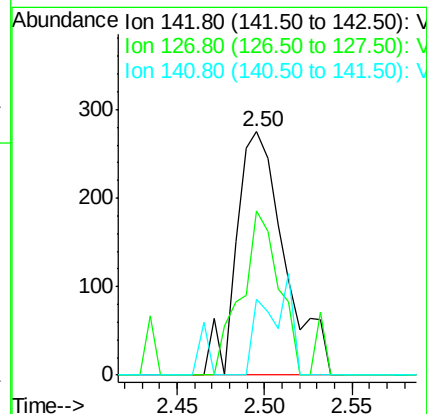
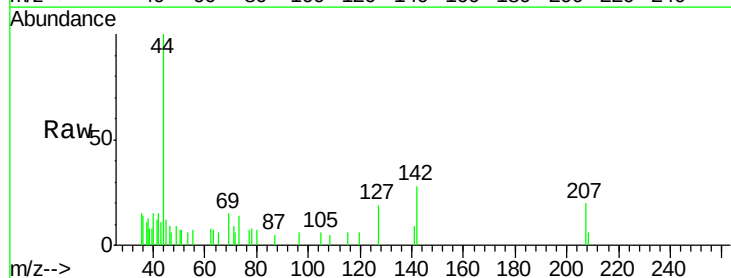
Tgt Ion:142 Resp: 530

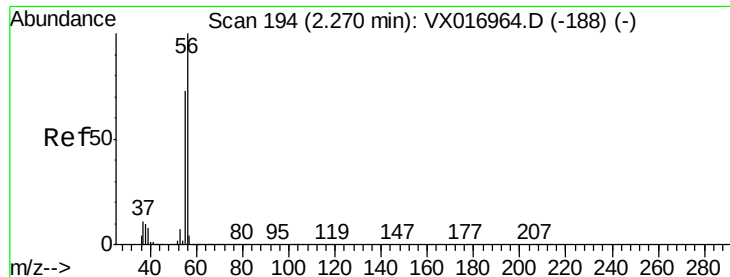
Ion Ratio Lower Upper

142 100

127 52.3 37.4 56.0

141 0.0 11.7 17.5#





#13

Acrolein

Concen: 1.101 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

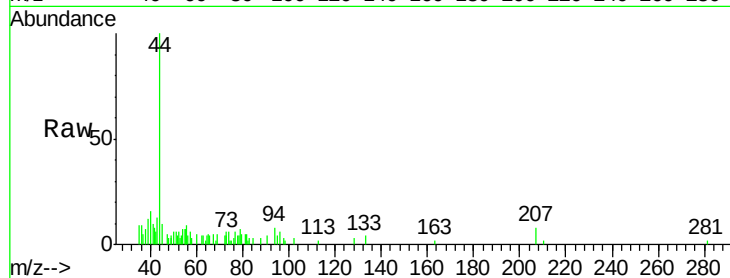
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 473

Ion Ratio Lower Upper

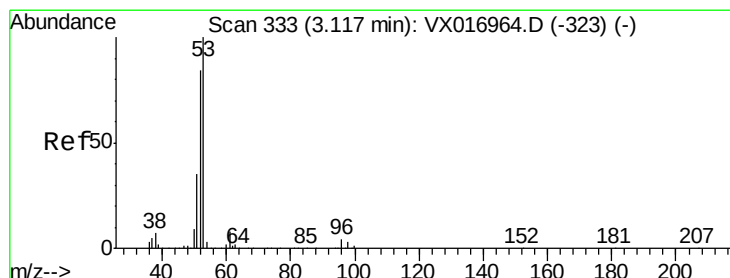
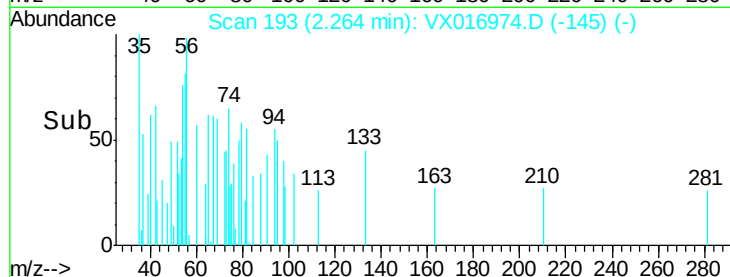
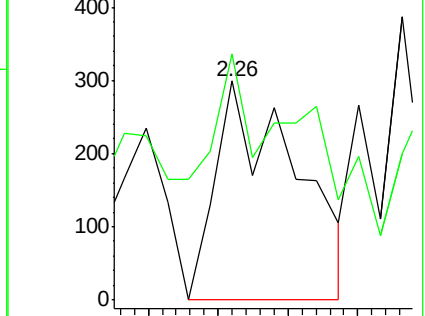
56 100

55 64.7 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.281 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

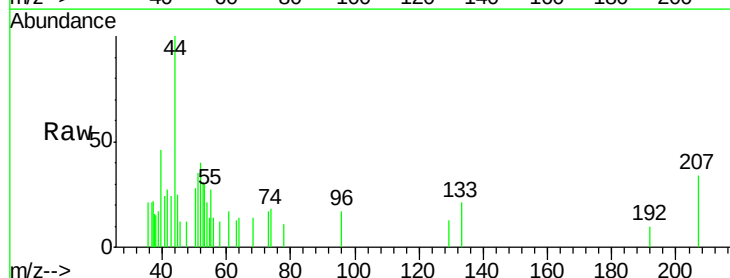
Tgt Ion: 53 Resp: 378

Ion Ratio Lower Upper

53 100

52 162.7 66.3 99.5#

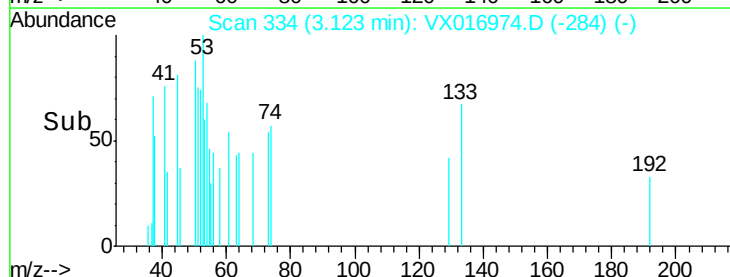
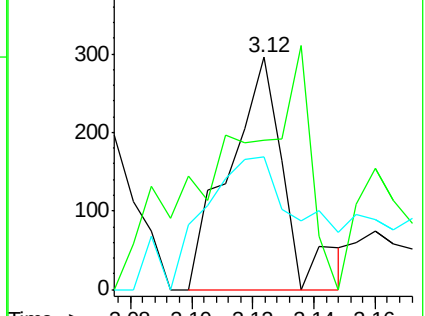
51 106.1 29.0 43.6#

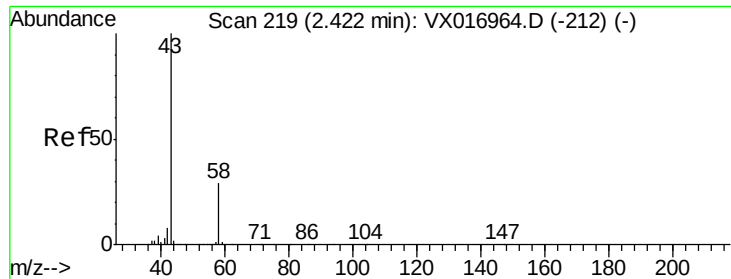


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 0.915 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

Instrument :

MSVOA_X

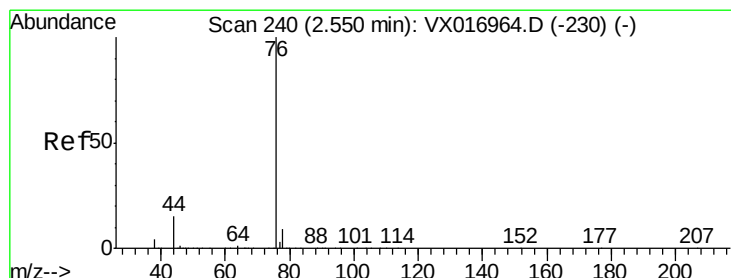
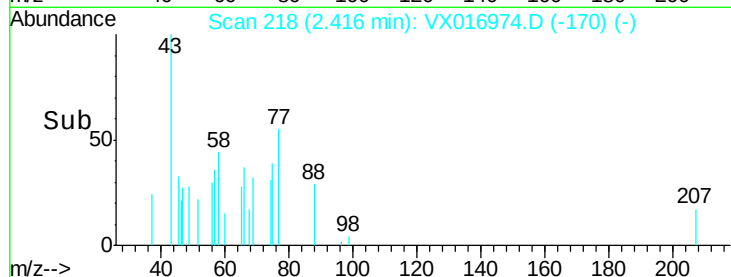
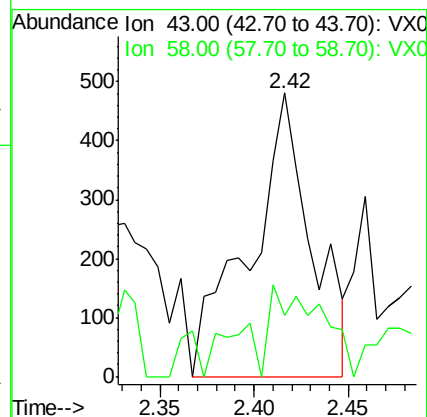
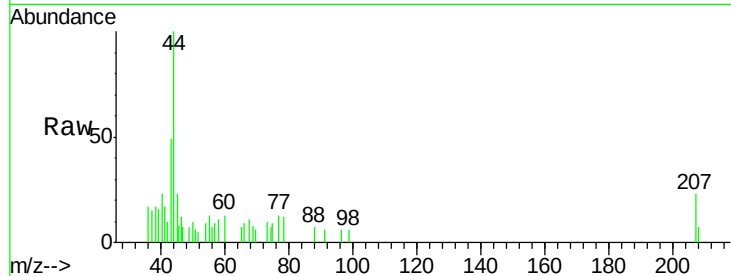
ClientSampleId :

Tot Ion: 43 Resp: 1098

Ion Ratio Lower Upper

43 100

58 5.4 23.5 35.3#



#17

Carbon Disulfide

Concen: 0.289 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX016974.D

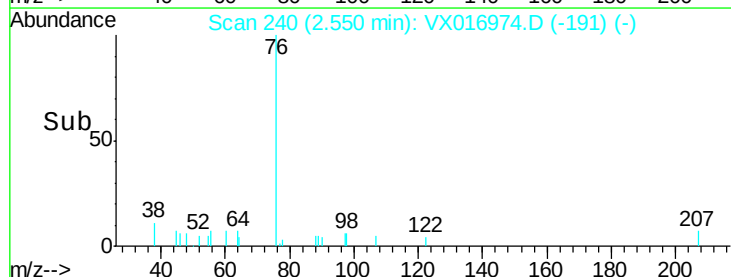
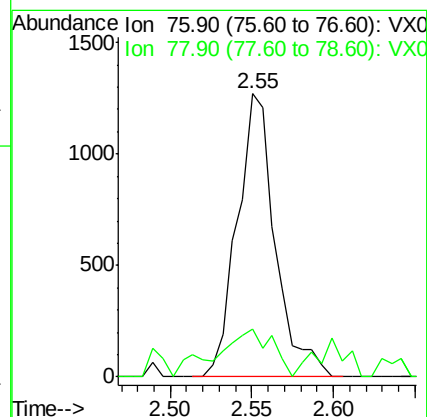
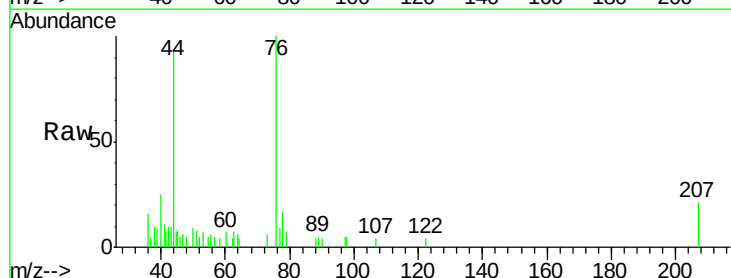
Acq: 26 Jun 2020 11:42

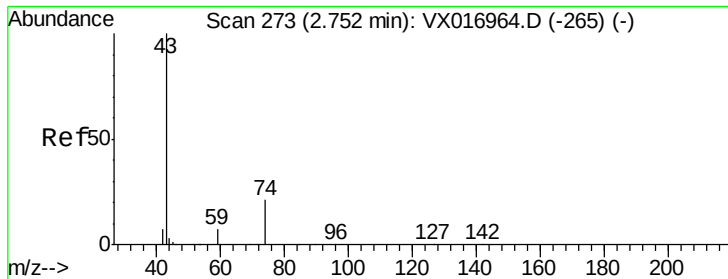
Tgt Ion: 76 Resp: 2062

Ion Ratio Lower Upper

76 100

78 11.3 7.0 10.4#

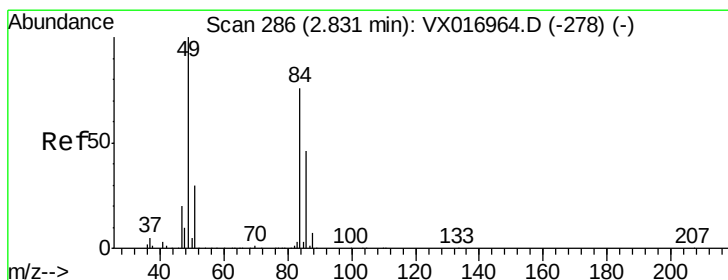
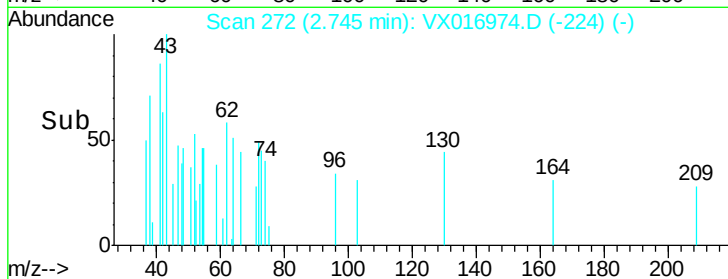
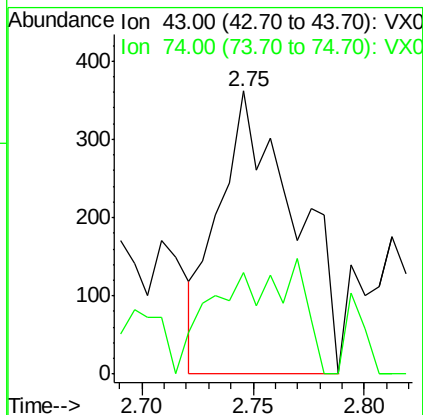
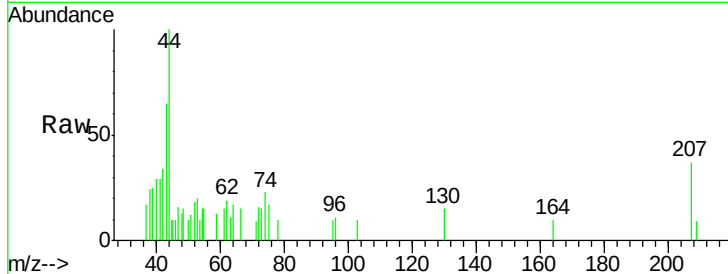




#18
Methyl Acetate
Concen: 0.293 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX016974.D
Acq: 26 Jun 2020 11:42

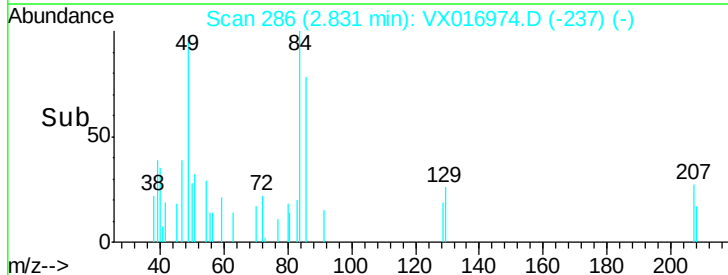
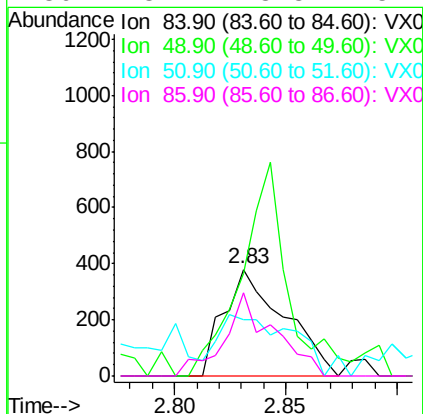
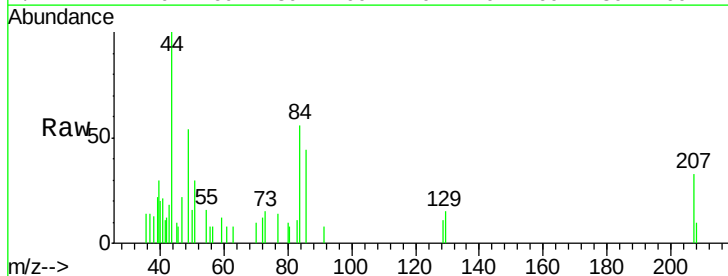
Instrument :
MSVOA_X
ClientSampleId :

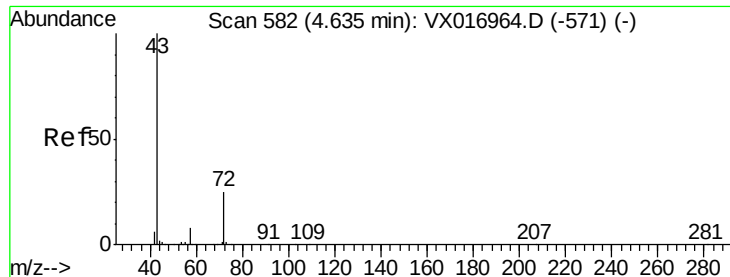
Tot Ion: 43 Resp: 856
Ion Ratio Lower Upper
43 100
74 23.7 18.3 27.5



#20
Methylene Chloride
Concen: 0.264 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX016974.D
Acq: 26 Jun 2020 11:42

Tgt Ion: 84 Resp: 719
Ion Ratio Lower Upper
84 100
49 96.6 105.6 158.4#
51 35.4 31.2 46.8
86 78.4 48.8 73.2#





#25

2-Butanone

Concen: 0.203 ug/l

RT: 4.66 min Scan# 586

Delta R.T. 0.02 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

Instrument :

MSVOA_X

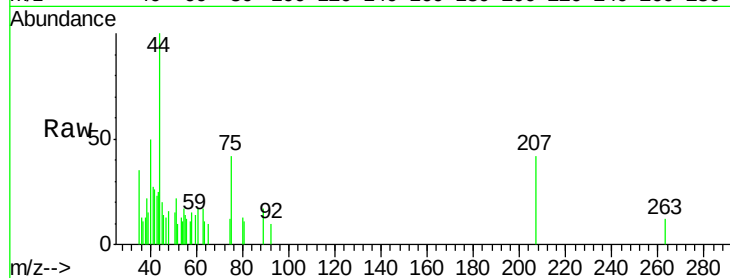
ClientSampleId :

Tot Ion: 43 Resp: 371

Ion Ratio Lower Upper

43 100

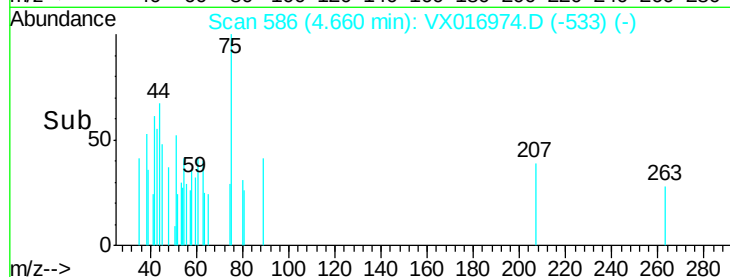
72 0.0 20.0 30.0#



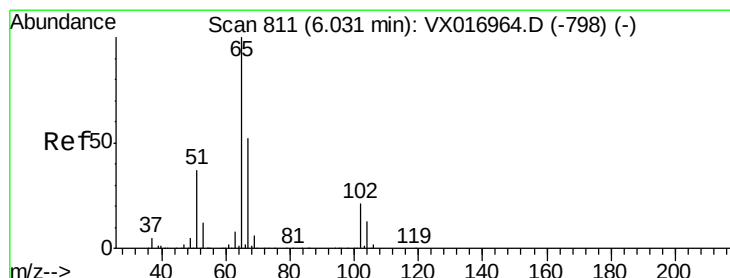
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Time-->



Time-->



#33

1,2-Dichloroethane-d4

Concen: 50.420 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016974.D

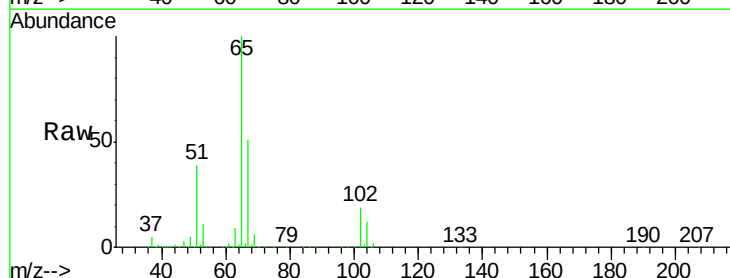
Acq: 26 Jun 2020 11:42

Tgt Ion: 65 Resp: 154760

Ion Ratio Lower Upper

65 100

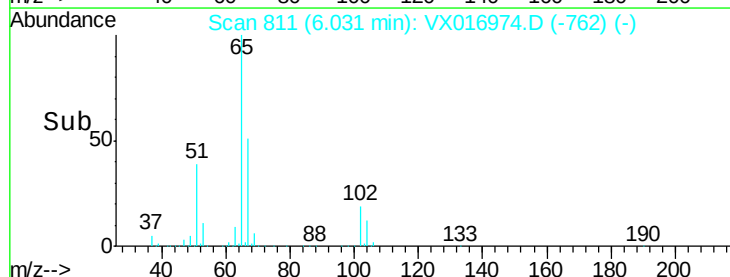
67 50.7 0.0 102.8



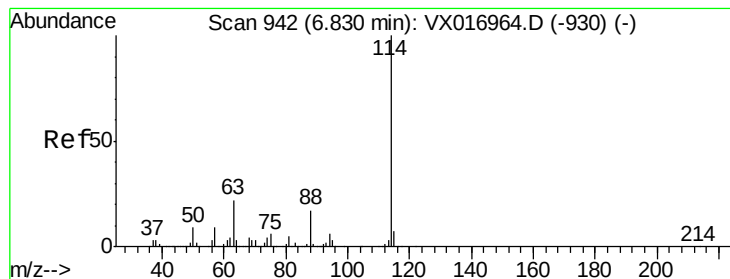
Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

Time-->



Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

Instrument :

MSVOA_X

ClientSampleId :

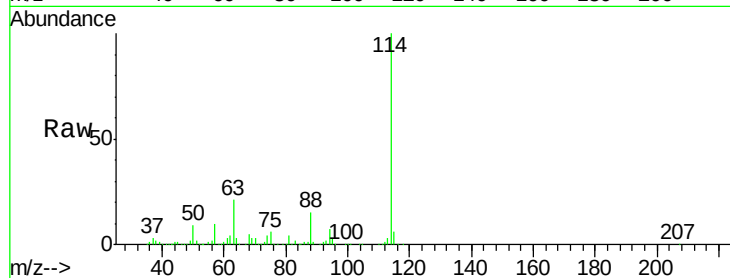
Tot Ion:114 Resp: 362168

Ion Ratio Lower Upper

114 100

63 21.4 0.0 44.4

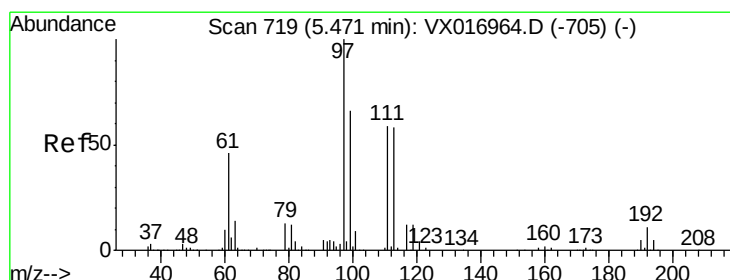
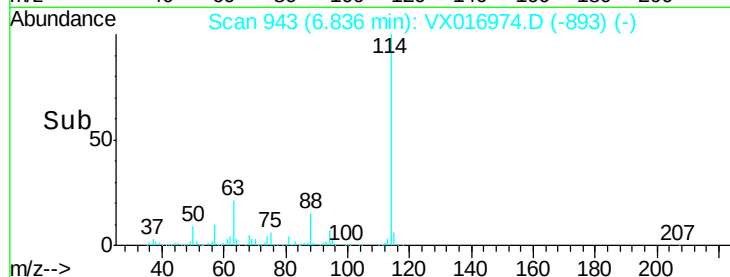
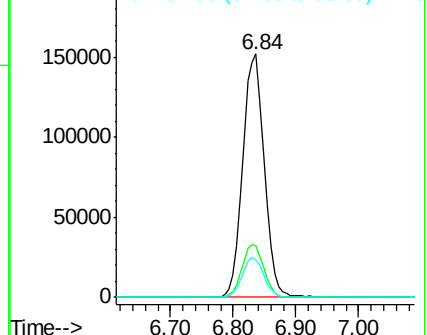
88 15.3 0.0 33.2



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: 49.702 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

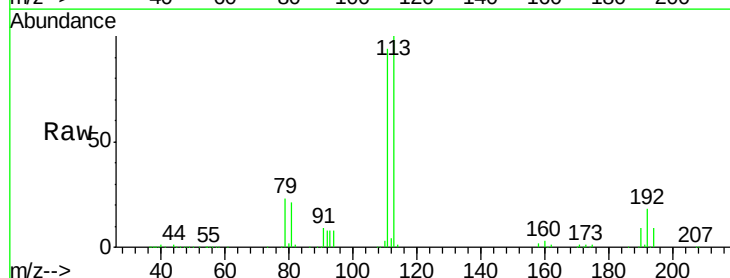
Tgt Ion:113 Resp: 118889

Ion Ratio Lower Upper

113 100

111 101.4 84.3 126.5

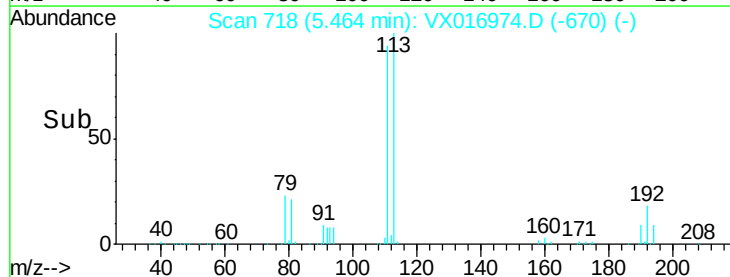
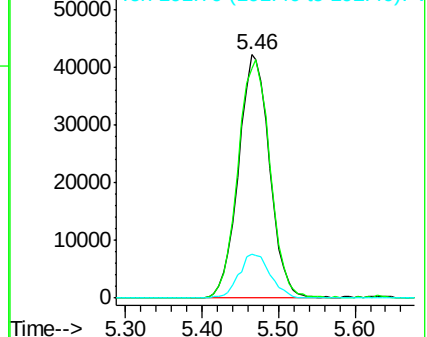
192 18.3 15.2 22.8

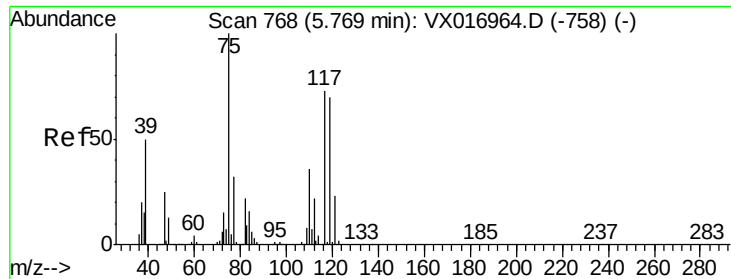


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.951 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

Instrument :

MSVOA_X

ClientSampleId :

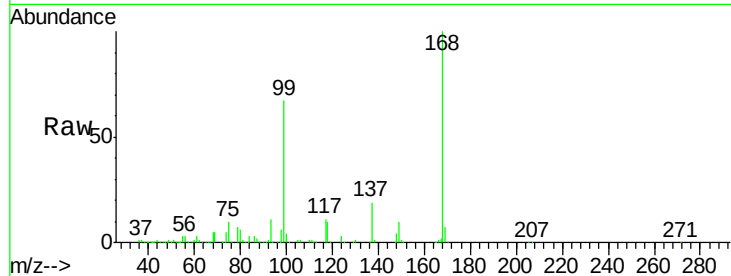
Tot Ion: 75 Resp: 17753

Ion Ratio Lower Upper

75 100

110 11.0 17.2 51.6#

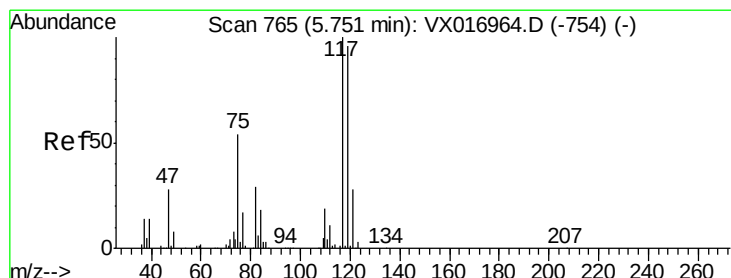
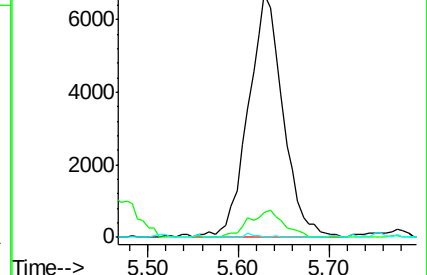
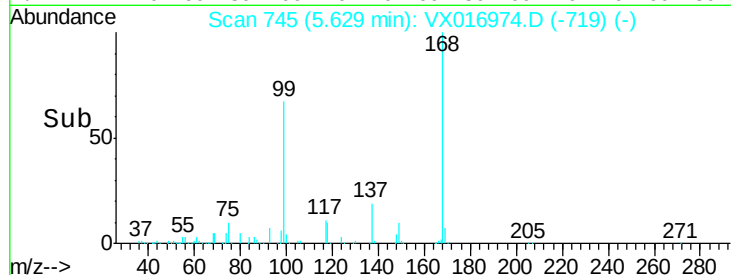
77 0.1 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VX016974.D (-719) (-)

Ion 109.90 (109.60 to 110.60): VX016974.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX016974.D (-719) (-)



#38

Carbon Tetrachloride

Concen: 5.766 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

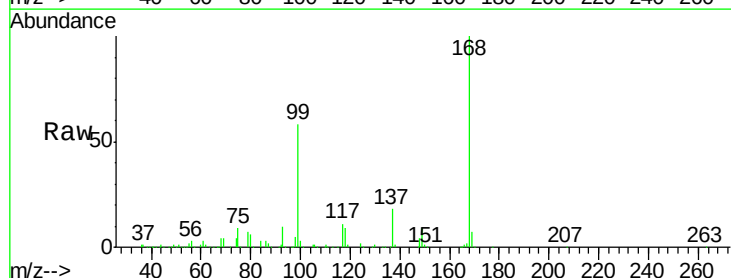
Tgt Ion: 117 Resp: 21883

Ion Ratio Lower Upper

117 100

119 5.3 76.6 114.8#

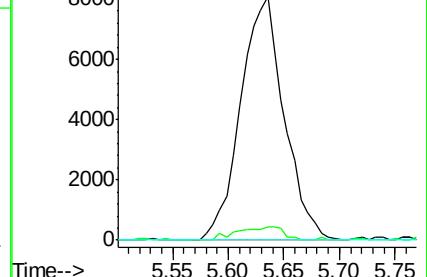
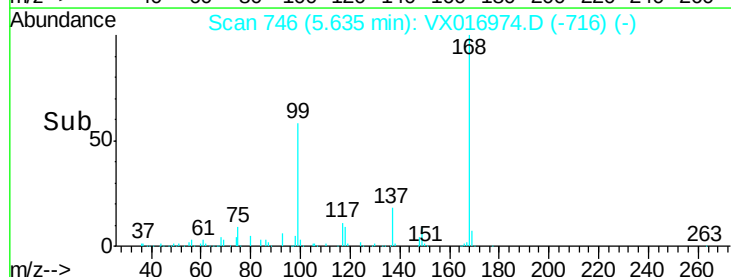
121 0.0 22.5 33.7#

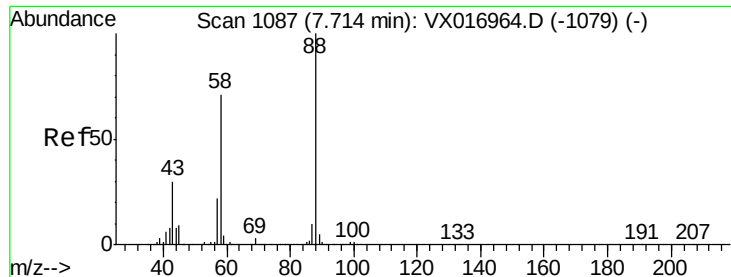


Abundance Ion 116.80 (116.50 to 117.50): VX016974.D (-716) (-)

Ion 118.80 (118.50 to 119.50): VX016974.D (-716) (-)

Ion 120.80 (120.50 to 121.50): VX016974.D (-716) (-)

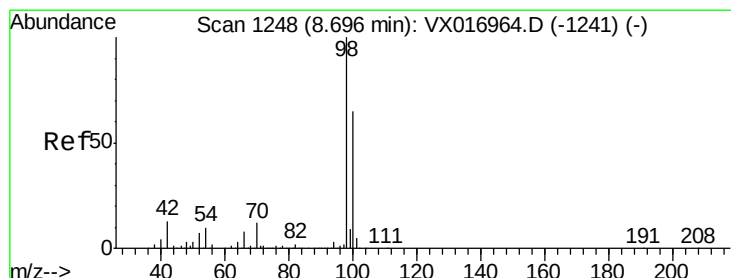
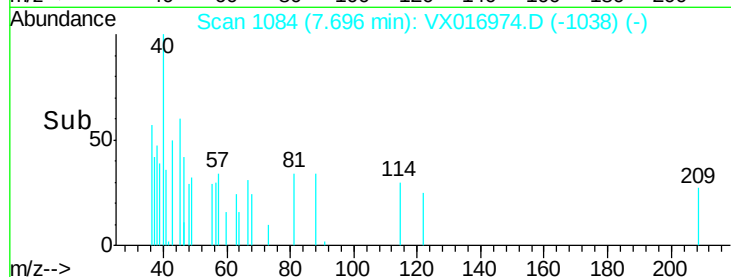
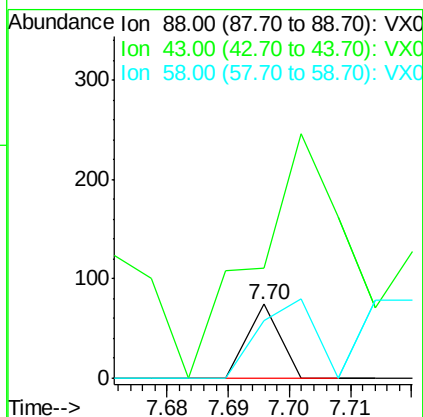
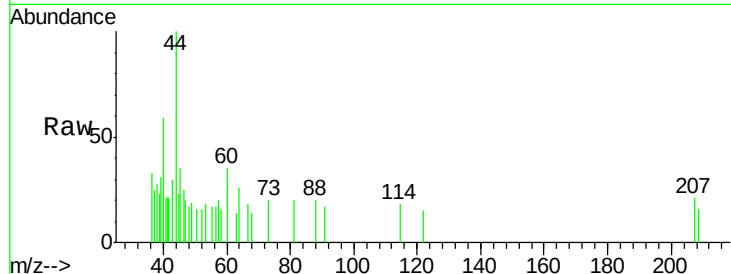




#49
1,4-Dioxane
Concen: 0.429 ug/l
RT: 7.70 min Scan# 1084
Delta R.T. -0.02 min
Lab File: VX016974.D
Acq: 26 Jun 2020 11:42

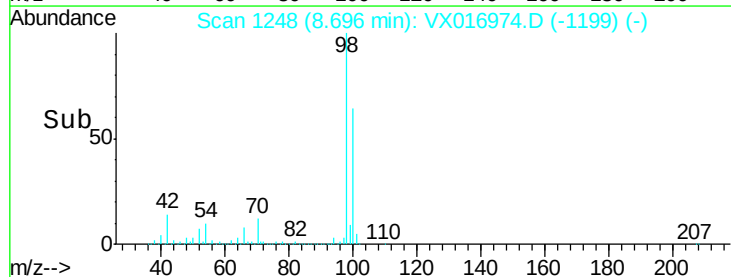
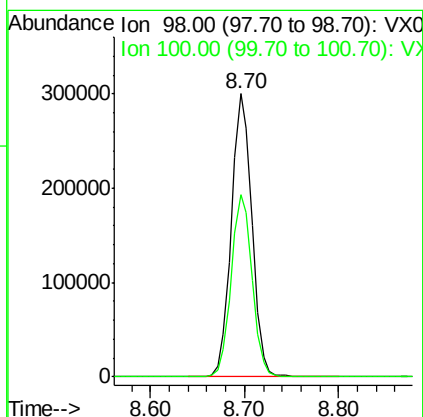
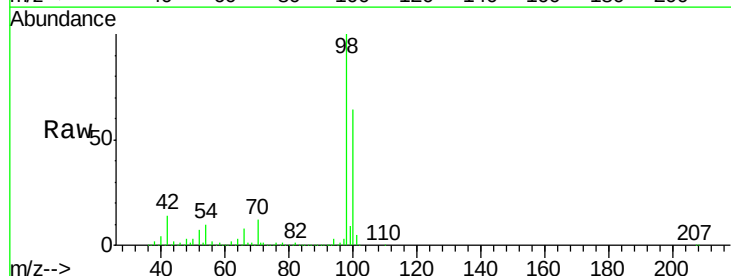
Instrument :
MSVOA_X
ClientSampled :

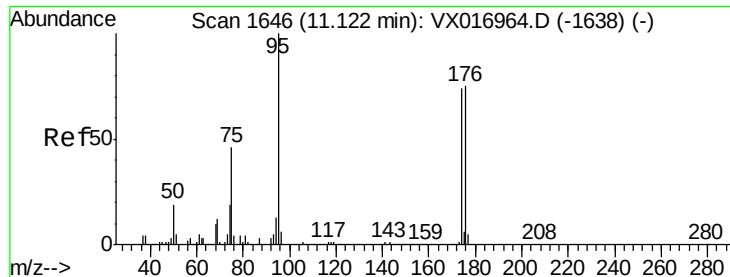
Tot Ion: 88 Resp: 27
Ion Ratio Lower Upper
88 100
43 944.4 28.1 42.1#
58 185.2 56.1 84.1#



#50
Toluene-d8
Concen: 51.785 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX016974.D
Acq: 26 Jun 2020 11:42

Tgt Ion: 98 Resp: 454064
Ion Ratio Lower Upper
98 100
100 65.3 52.2 78.2





#62

4-Bromofluorobenzene

Concen: 53.276 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

Instrument :

MSVOA_X

ClientSampleId :

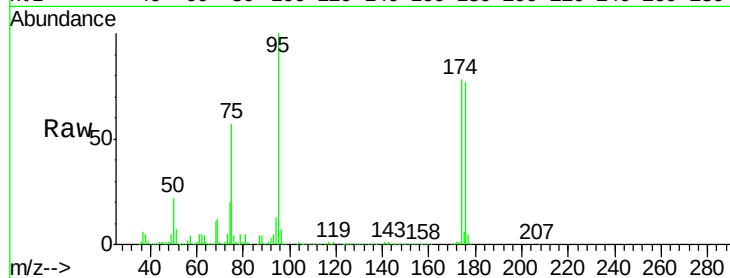
Tot Ion: 95 Resp: 180636

Ion Ratio Lower Upper

95 100

174 77.9 0.0 149.6

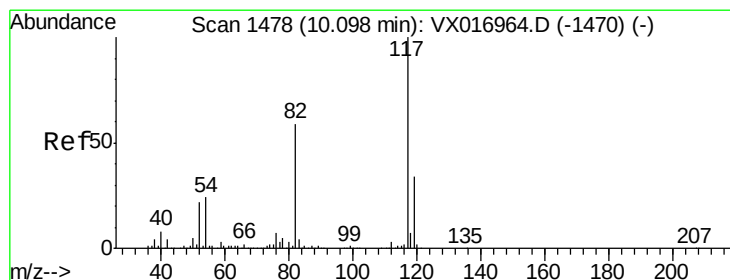
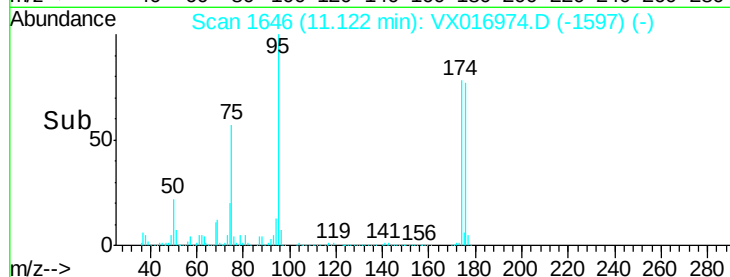
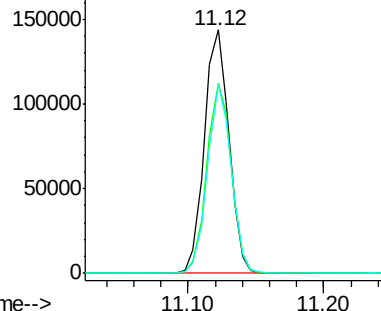
176 74.9 0.0 148.2



Abundance Ion 94.90 (94.60 to 95.60): VX016964.D (-1638) (-)

Ion 173.80 (173.50 to 174.50): VX016964.D (-1638) (-)

Ion 175.80 (175.50 to 176.50): VX016964.D (-1638) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

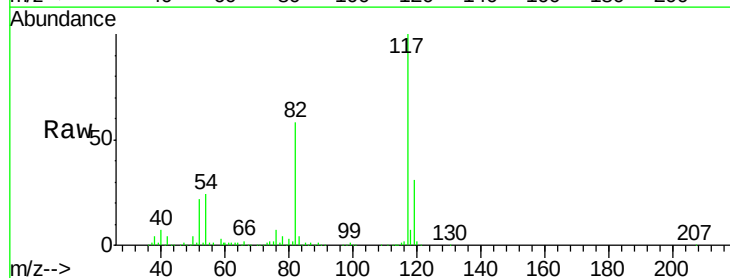
Tgt Ion: 117 Resp: 366398

Ion Ratio Lower Upper

117 100

82 57.6 46.8 70.2

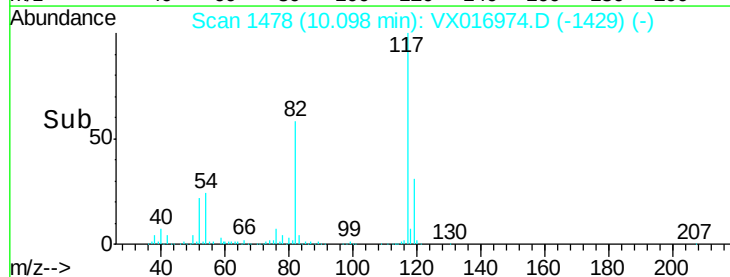
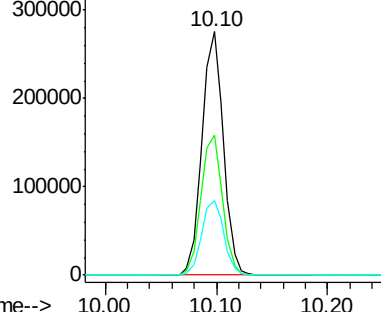
119 30.9 27.3 40.9

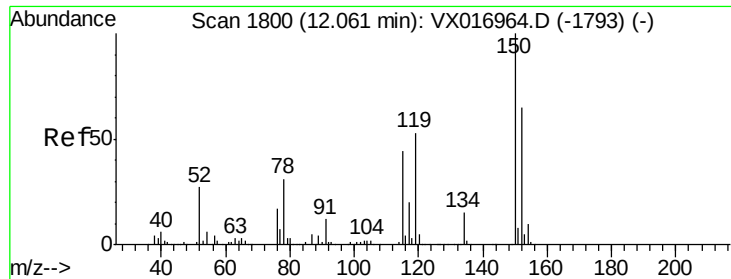


Abundance Ion 116.90 (116.60 to 117.60): VX016964.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX016964.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX016964.D (-1470) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

Instrument :

MSVOA_X

ClientSampleId :

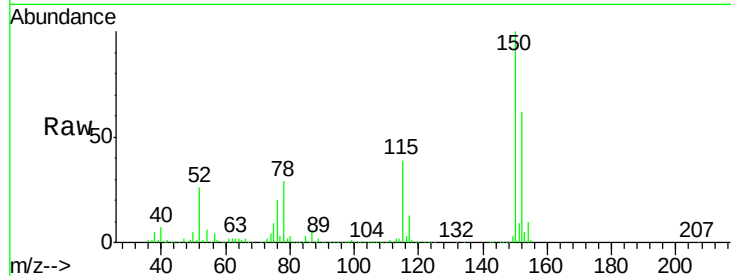
Tot Ion:152 Resp: 185997

Ion Ratio Lower Upper

152 100

115 61.2 42.8 128.4

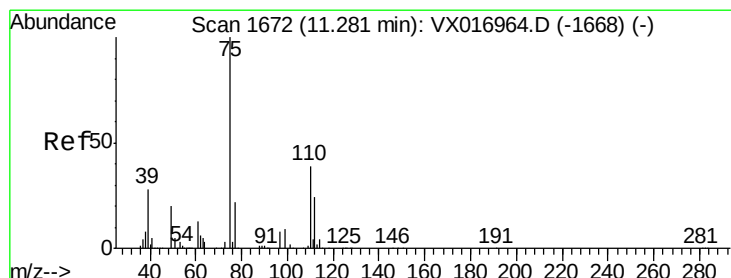
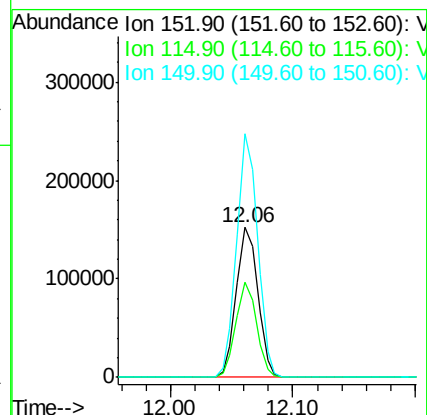
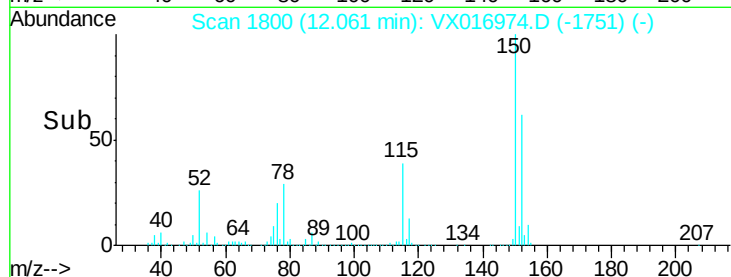
150 157.5 0.0 347.8



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: 26.143 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016974.D

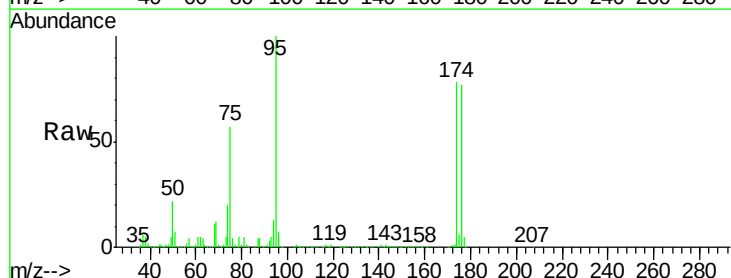
Acq: 26 Jun 2020 11:42

Tgt Ion: 75 Resp: 102045

Ion Ratio Lower Upper

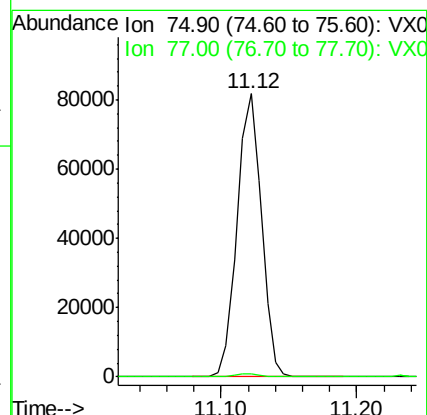
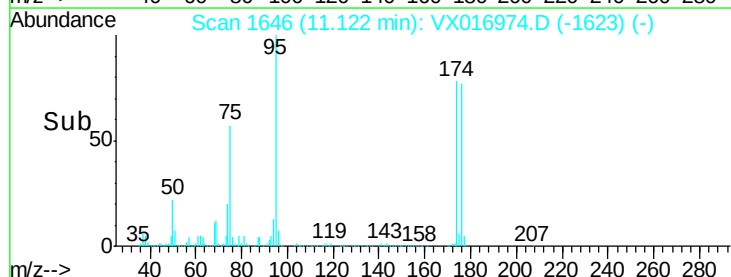
75 100

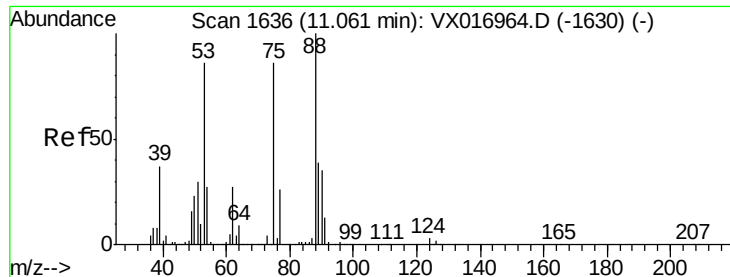
77 1.2 20.3 61.0#



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: 66.373 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

Instrument :

MSVOA_X

ClientSampleId :

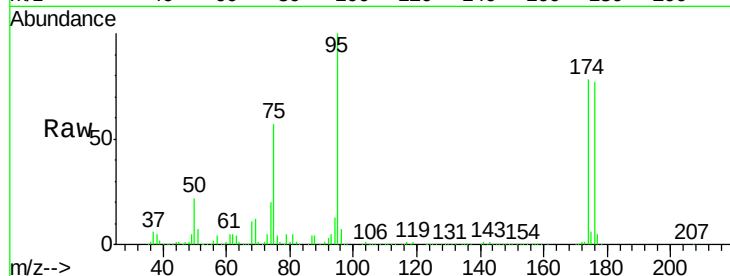
Tot Ion: 75 Resp: 102045

Ion Ratio Lower Upper

75 100

53 0.4 81.9 122.9#

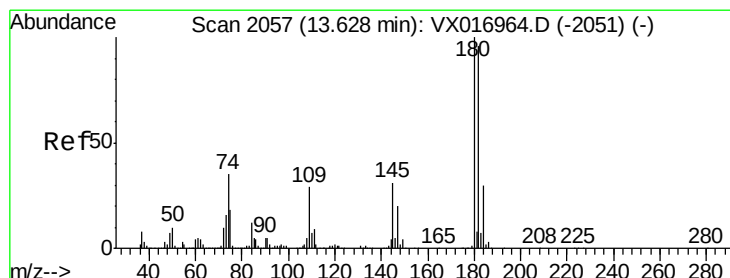
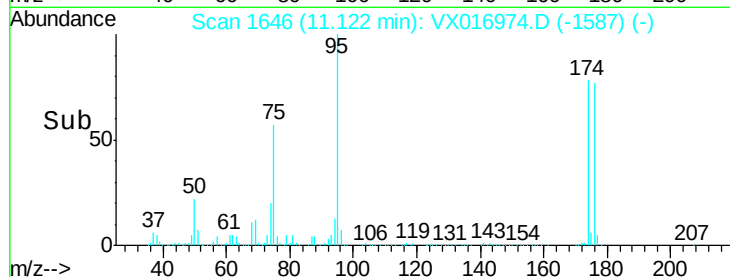
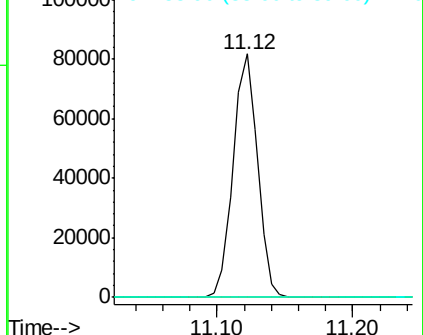
89 0.1 35.5 53.3#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.213 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

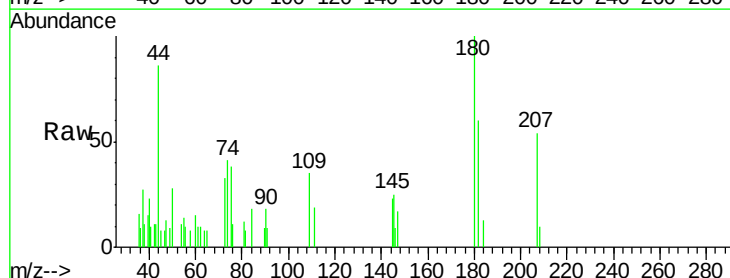
Tgt Ion:180 Resp: 783

Ion Ratio Lower Upper

180 100

182 74.8 46.4 139.1

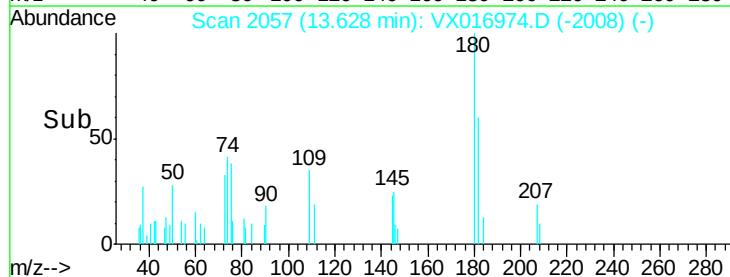
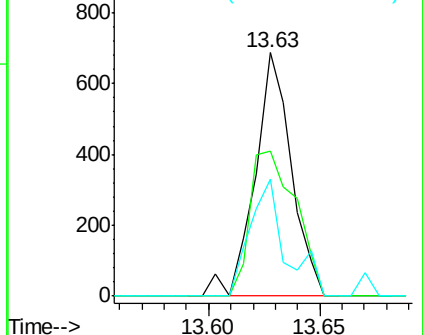
145 47.4 15.5 46.5#

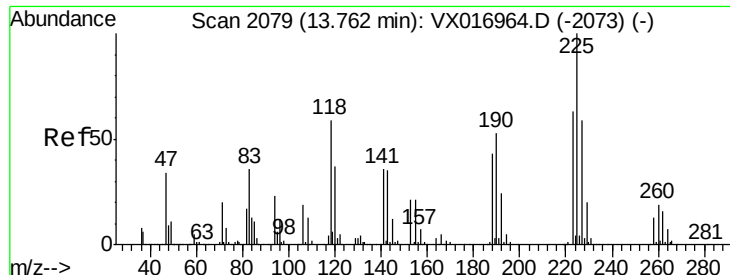


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.221 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VX016974.D

Acq: 26 Jun 2020 11:42

Instrument :

MSVOA_X

ClientSampleId :

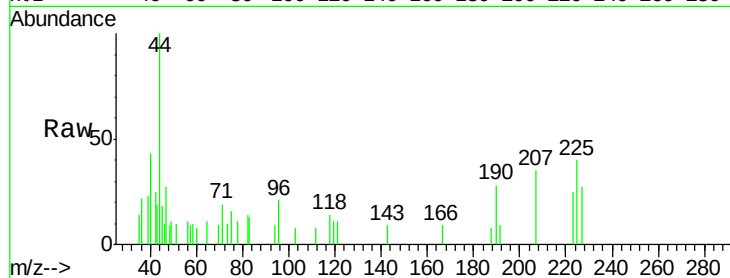
Tot Ion:225 Resp: 292

Ion Ratio Lower Upper

225 100

223 59.6 31.1 93.2

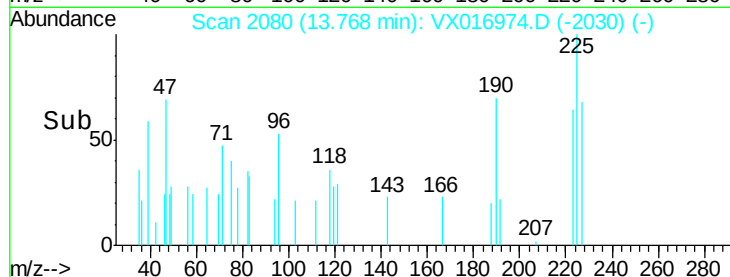
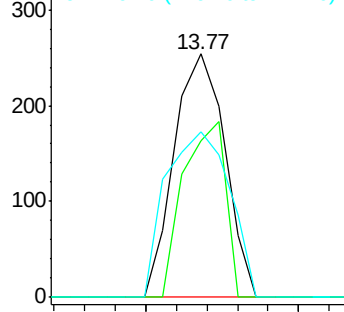
227 85.3 30.3 90.9



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



Time-->