

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX050720\
 Data File : VX016096.D
 Acq On : 07 May 2020 16:04
 Operator : JC/SP
 Sample : L2551-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z4-EFF-200430

Quant Time: May 08 02:05:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	298308	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	488014	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	474955	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	247763	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	183859	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
35) Dibromofluoromethane	5.47	113	144636	46.78	ug/l	0.00
Spiked Amount			Recovery	=	93.56%	
50) Toluene-d8	8.70	98	596044	50.03	ug/l	0.00
Spiked Amount			Recovery	=	100.06%	
62) 4-Bromofluorobenzene	11.12	95	241742	53.35	ug/l	0.00
Spiked Amount			Recovery	=	106.70%	

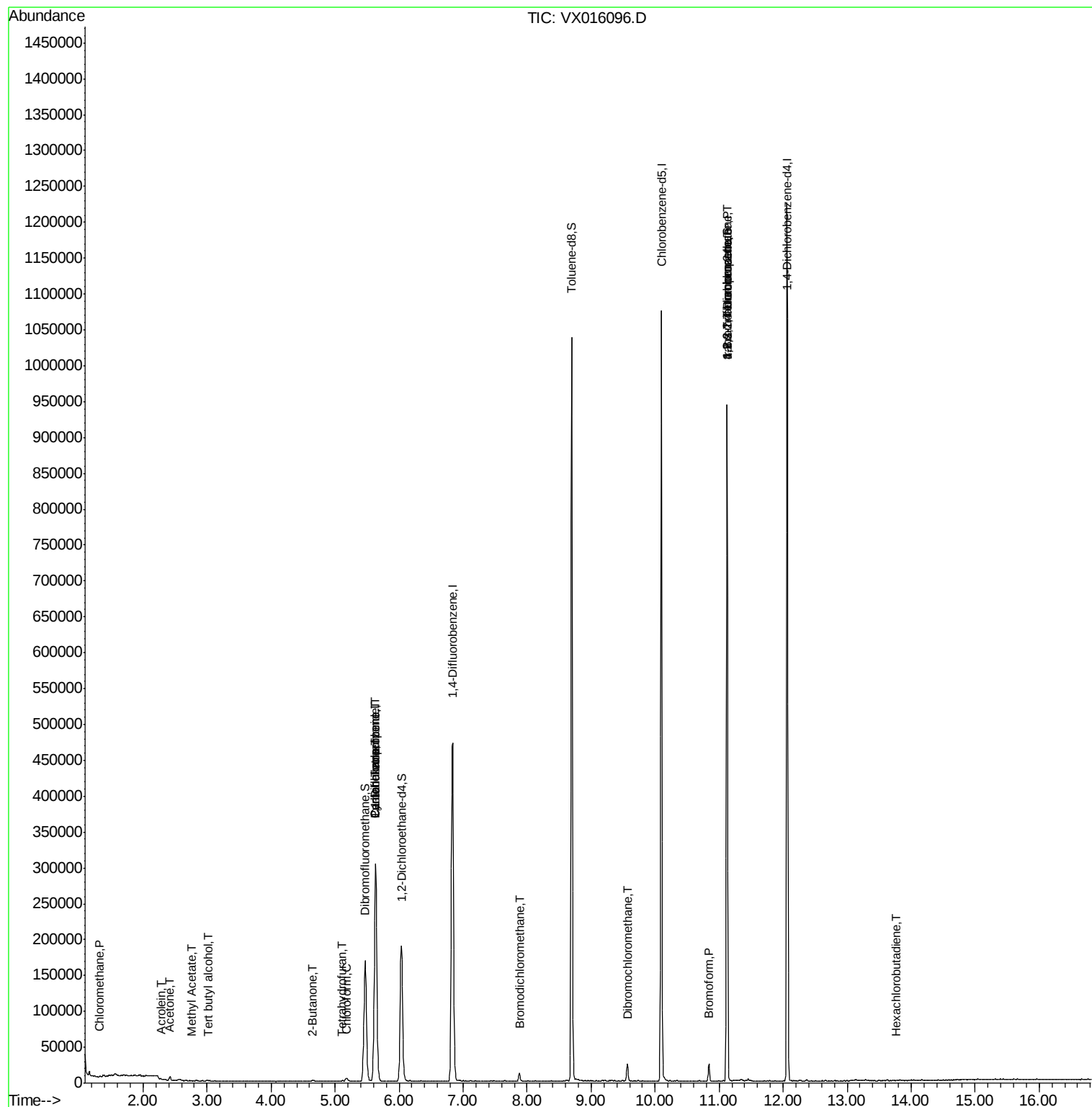
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	840	0.229	ug/l #	88
11) Tert butyl alcohol	3.01	59	1022	1.030	ug/l #	57
13) Acrolein	2.28	56	390	0.628	ug/l #	75
16) Acetone	2.42	43	5441	3.106	ug/l	96
18) Methyl Acetate	2.76	43	900	0.209	ug/l #	76
25) 2-Butanone	4.65	43	585	0.207	ug/l #	48
29) Tetrahydrofuran	5.10	42	925	0.495	ug/l #	74
30) Chloroform	5.18	83	4695	0.786	ug/l	96
31) Cyclohexane	5.63	56	6060	1.111	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22594	4.703	ug/l #	49
38) Carbon Tetrachloride	5.63	117	29043	5.948	ug/l #	13
47) Bromodichloromethane	7.88	83	7113	1.445	ug/l	97
60) Dibromochloromethane	9.57	129	9994	2.633	ug/l	98
71) Bromoform	10.84	173	8758	2.924	ug/l #	97
75) 1,1,2,2-Tetrachloroethane	11.12	83	245	2.122	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	120042	21.351	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	120042	50.881	ug/l #	13
94) Hexachlorobutadiene	13.76	225	64	0.548	ug/l #	18

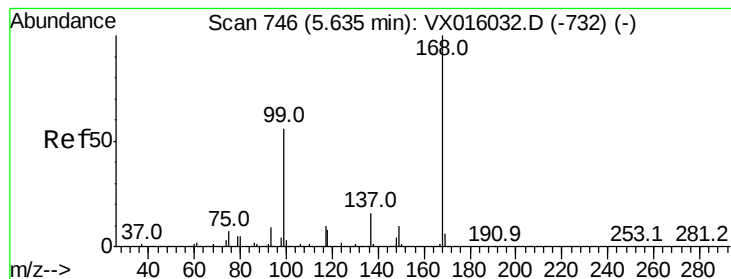
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
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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: VX016096.D

Acq: 07 May 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

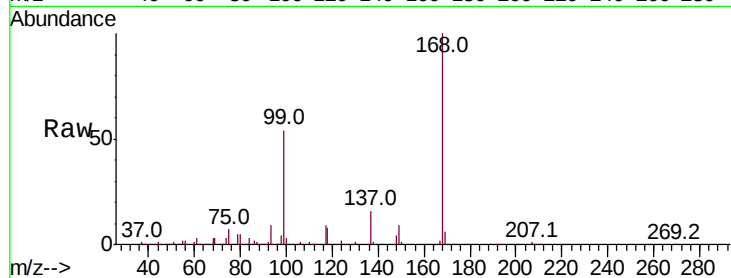
Z4-EFF-200430

Tot Ion:168 Resp: 298308

Ion Ratio Lower Upper

168 100

99 53.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

120000

100000

80000

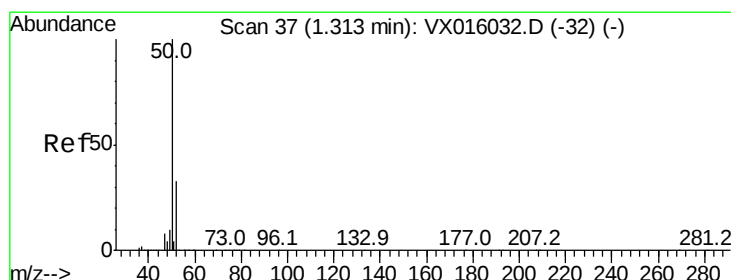
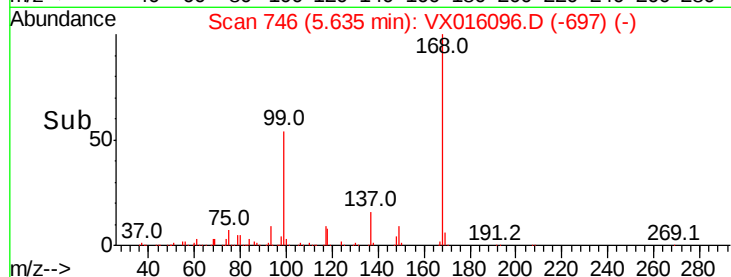
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.229 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX016096.D

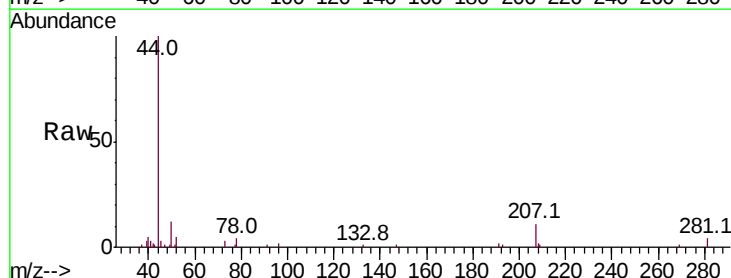
Acq: 07 May 2020 16:04

Tgt Ion: 50 Resp: 840

Ion Ratio Lower Upper

50 100

52 39.2 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

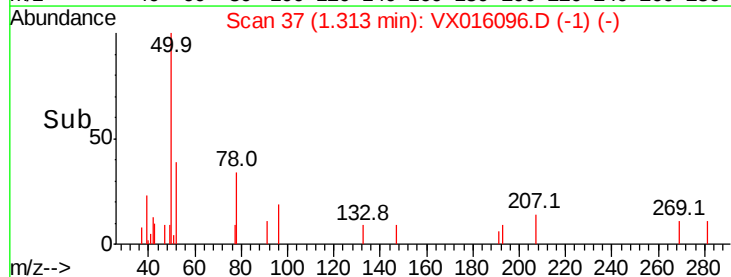
600

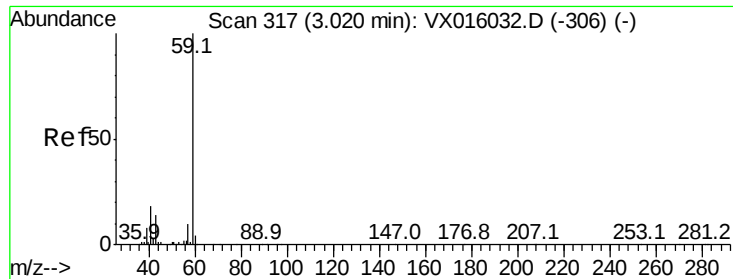
400

200

0

Time-->

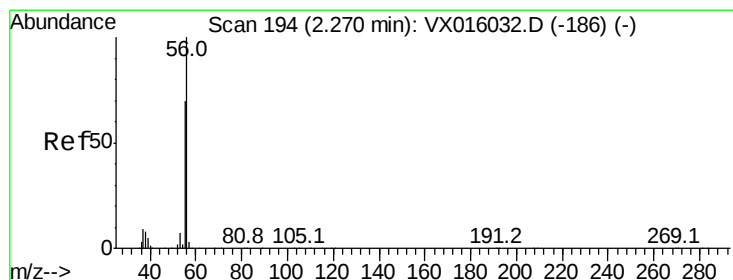
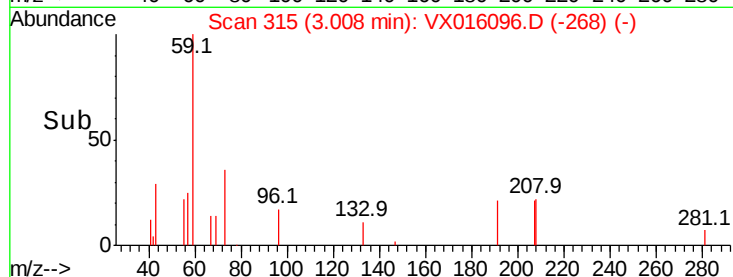
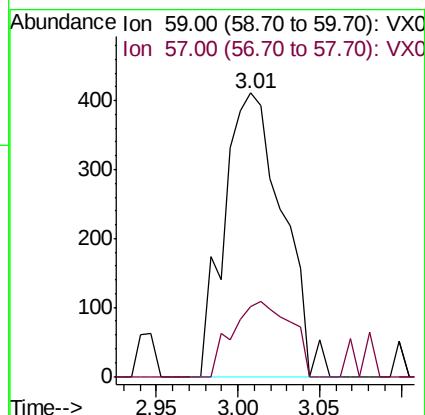
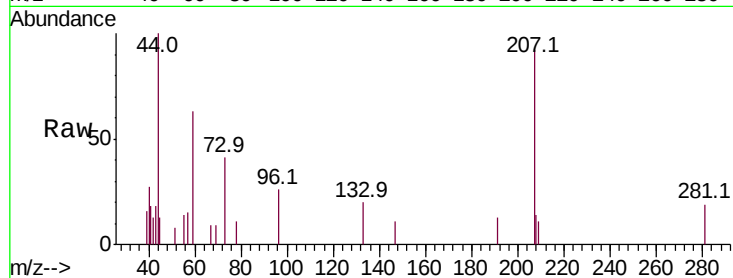




#11
Tert butyl alcohol
Concen: 1.030 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX016096.D
Acq: 07 May 2020 16:04

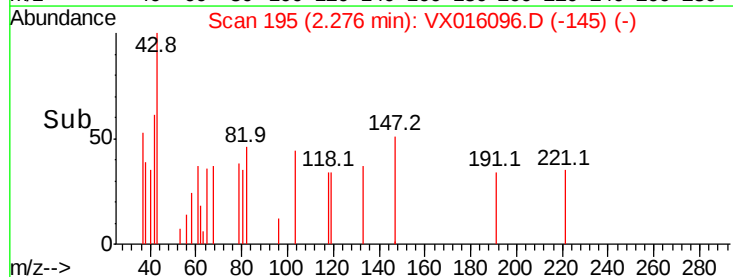
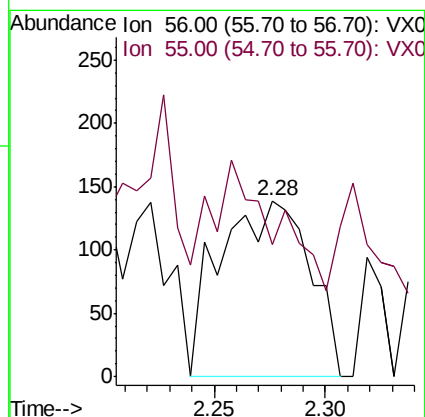
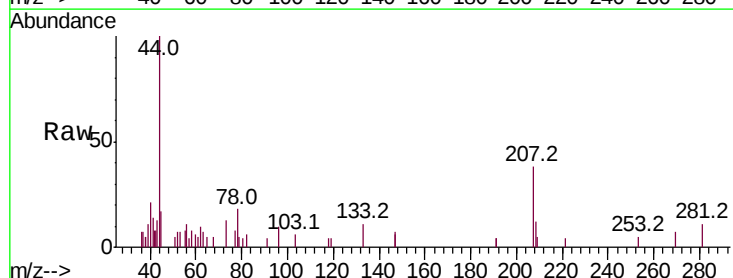
Instrument :
MSVOA_X
ClientSampleId :
Z4-EFF-200430

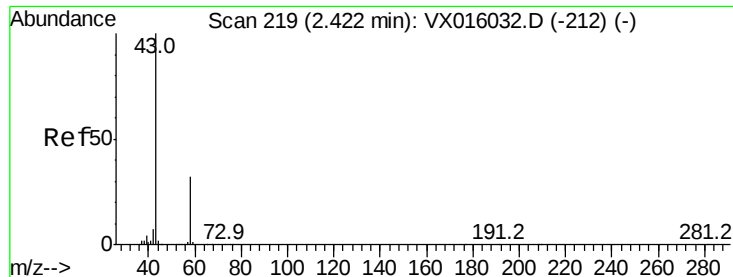
Tot Ion: 59 Resp: 1022
Ion Ratio Lower Upper
59 100
57 26.5 8.2 12.4#



#13
Acrolein
Concen: 0.628 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX016096.D
Acq: 07 May 2020 16:04

Tgt Ion: 56 Resp: 390
Ion Ratio Lower Upper
56 100
55 50.0 56.5 84.7#





#16

Acetone

Concen: 3.106 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016096.D

Acq: 07 May 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

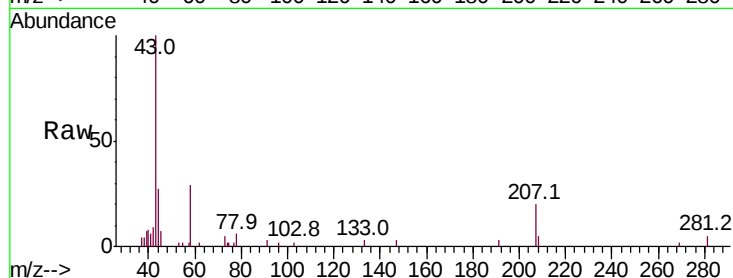
Z4-EFF-200430

Tot Ion: 43 Resp: 5441

Ion Ratio Lower Upper

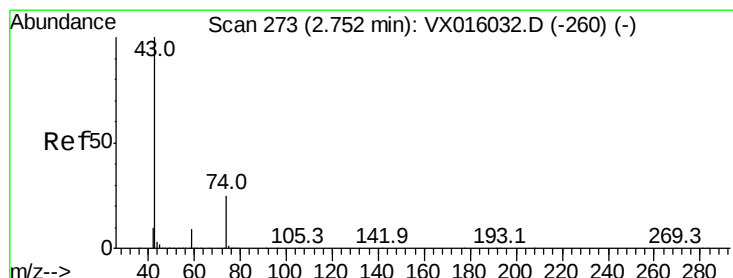
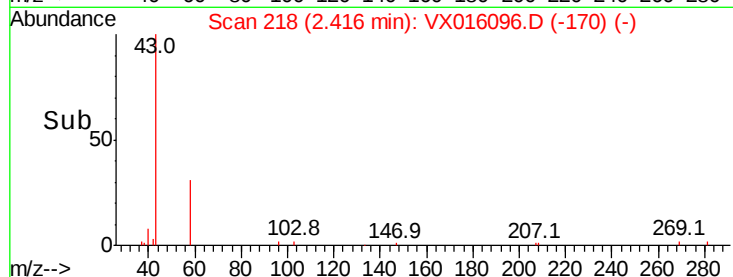
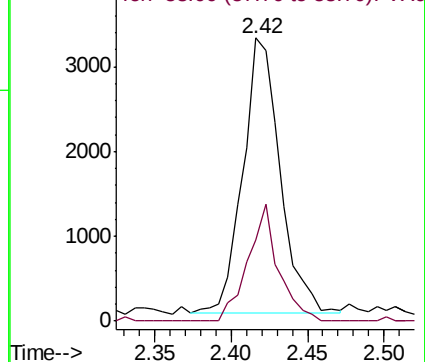
43 100

58 29.4 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.209 ug/l

RT: 2.76 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX016096.D

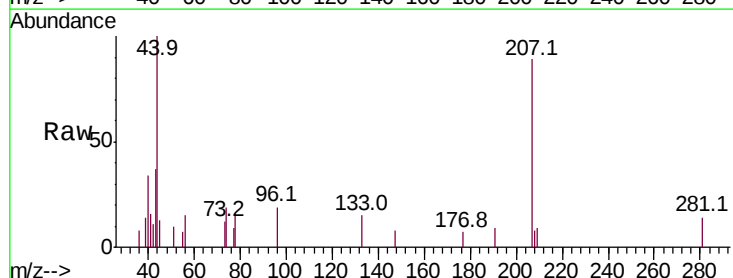
Acq: 07 May 2020 16:04

Tgt Ion: 43 Resp: 900

Ion Ratio Lower Upper

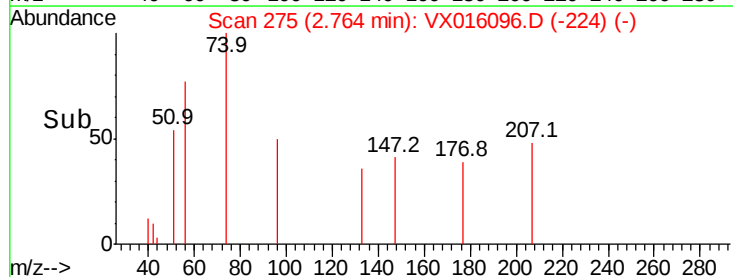
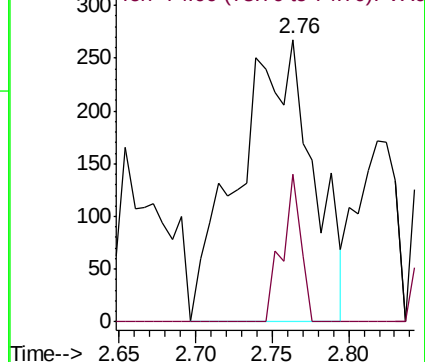
43 100

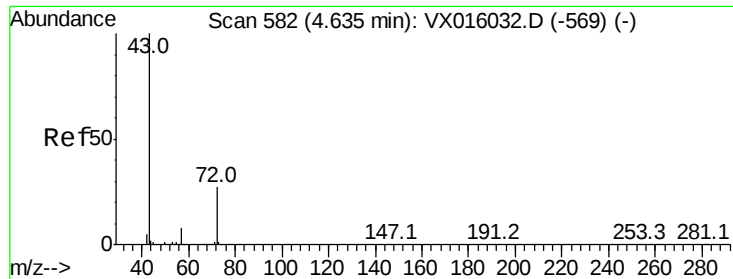
74 13.2 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#25

2-Butanone

Concen: 0.207 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016096.D

Acq: 07 May 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

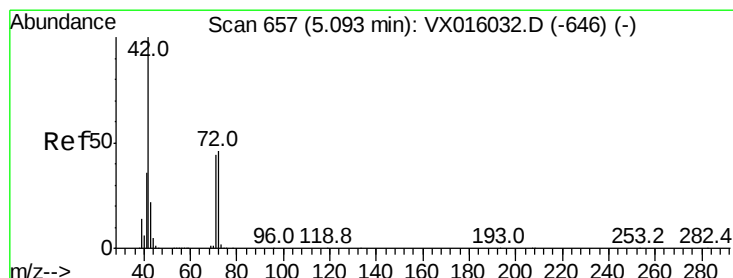
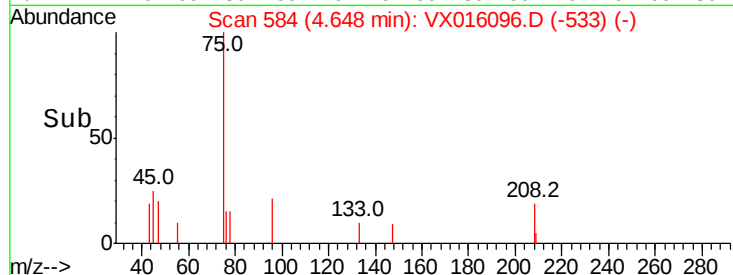
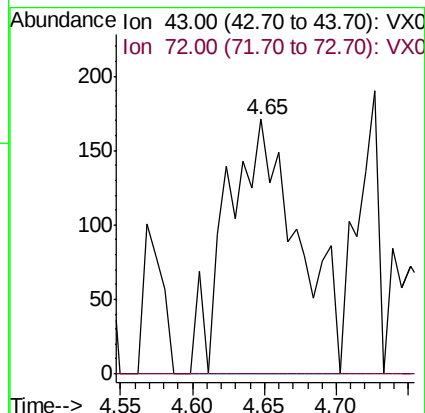
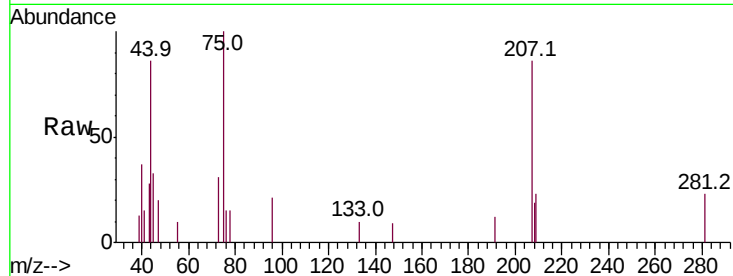
Z4-EFF-200430

Tot Ion: 43 Resp: 585

Ion Ratio Lower Upper

43 100

72 0.0 21.8 32.8#



#29

Tetrahydrofuran

Concen: 0.495 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX016096.D

Acq: 07 May 2020 16:04

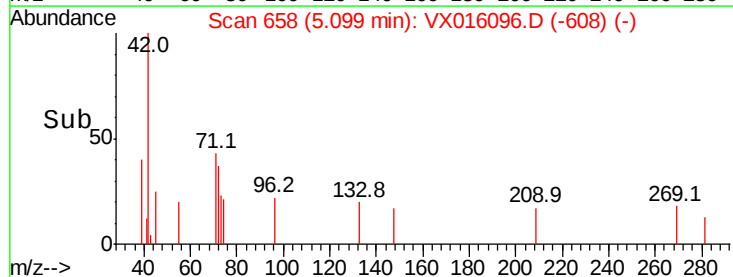
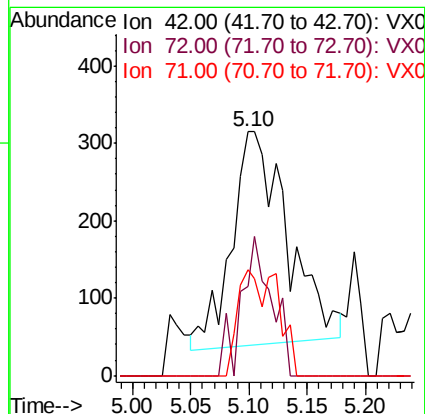
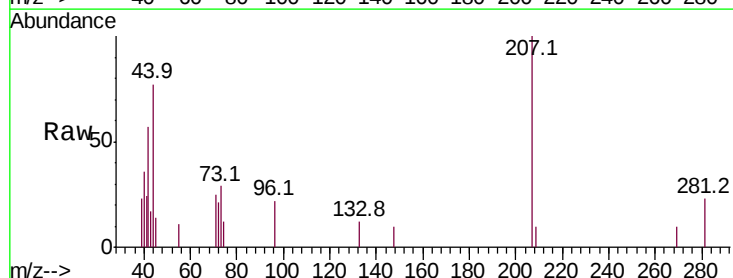
Tgt Ion: 42 Resp: 925

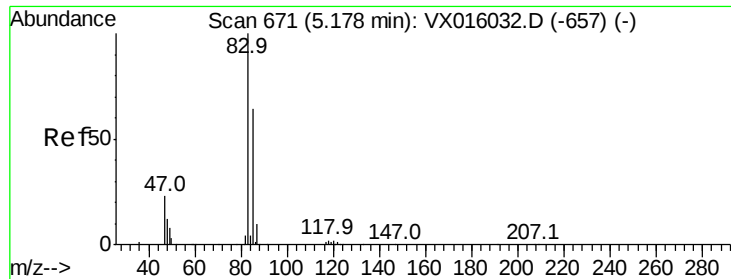
Ion Ratio Lower Upper

42 100

72 35.0 37.1 55.7#

71 20.5 34.5 51.7#

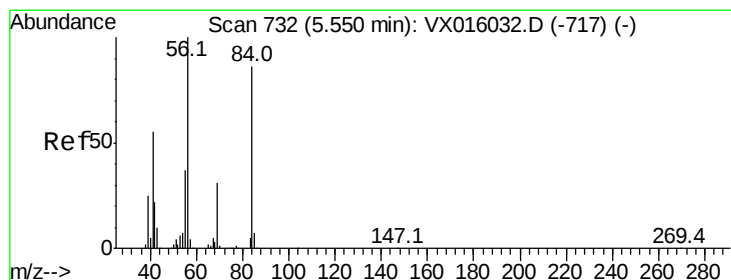
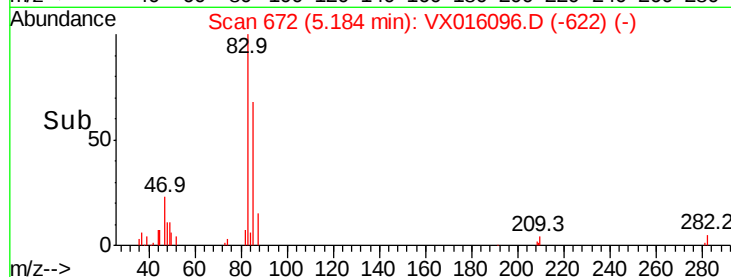
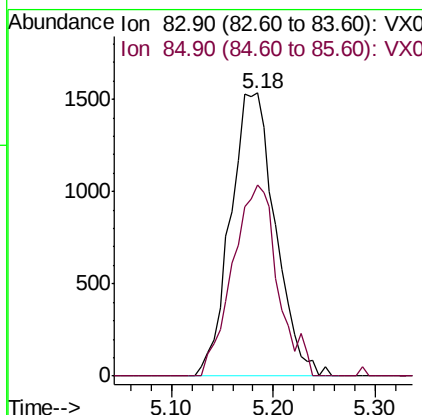
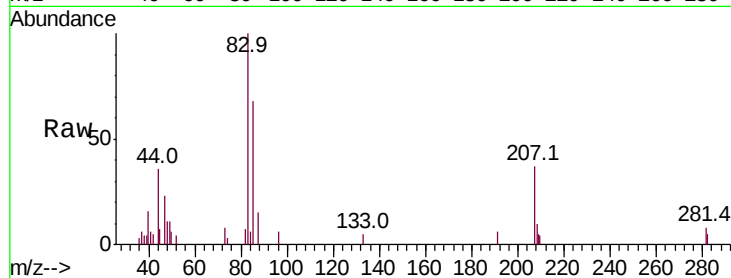




#30
Chloroform
Concen: 0.786 ug/l
RT: 5.18 min Scan# 672
Delta R.T. 0.01 min
Lab File: VX016096.D
Acq: 07 May 2020 16:04

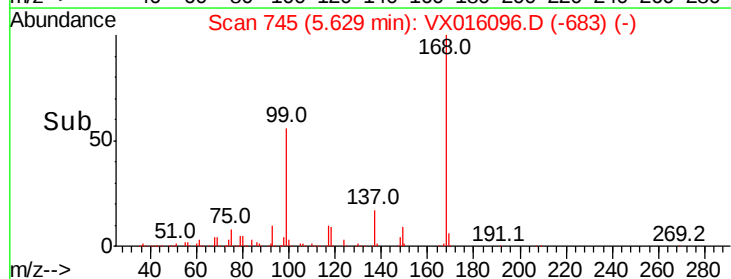
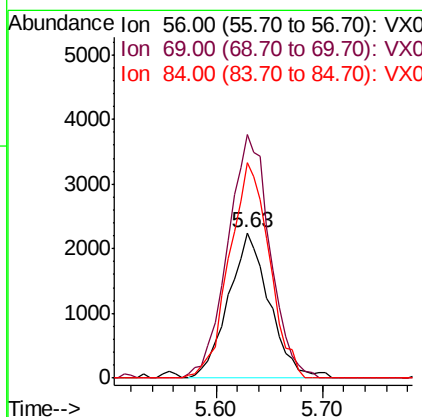
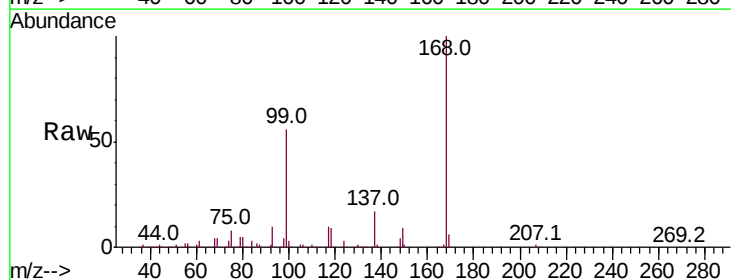
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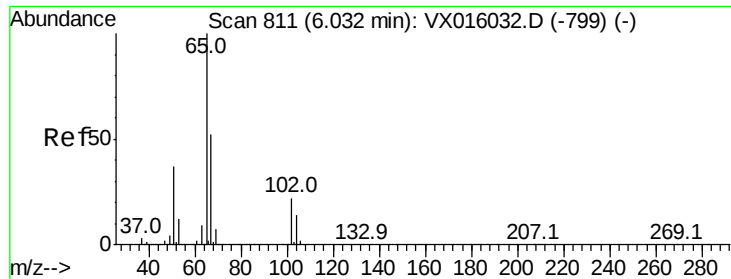
Tot Ion: 83 Resp: 4695
Ion Ratio Lower Upper
83 100
85 67.7 51.6 77.4



#31
Cyclohexane
Concen: 1.111 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016096.D
Acq: 07 May 2020 16:04

Tgt Ion: 56 Resp: 6060
Ion Ratio Lower Upper
56 100
69 167.5 25.0 37.6#
84 148.3 69.0 103.6#





#33

1,2-Dichloroethane-d4

Concen: 46.838 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016096.D

Acq: 07 May 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

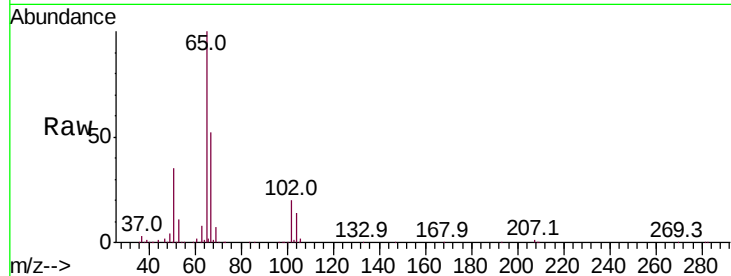
Z4-EFF-200430

Tot Ion: 65 Resp: 183859

Ion Ratio Lower Upper

65 100

67 52.5 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.04

80000

60000

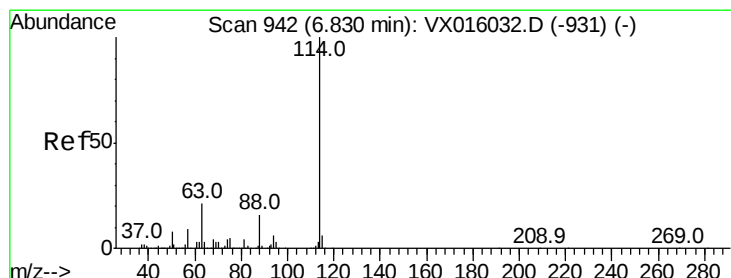
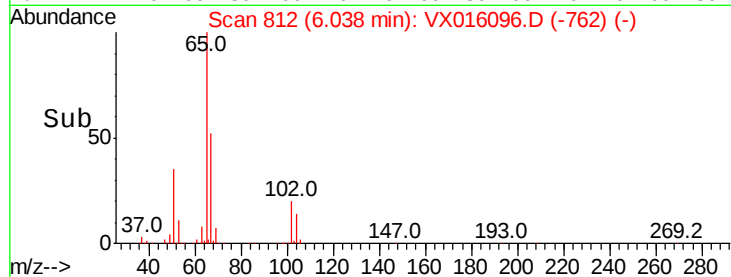
40000

20000

0

Time-->

5.90 6.00 6.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016096.D

Acq: 07 May 2020 16:04

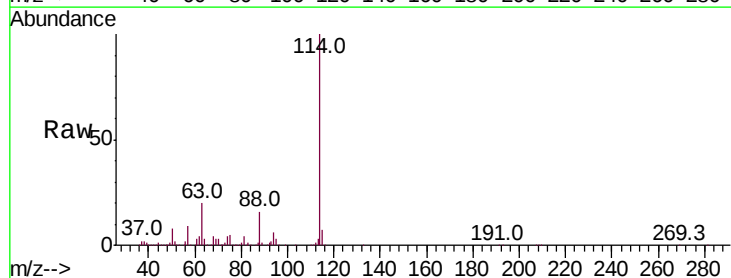
Tgt Ion: 114 Resp: 488014

Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.8

88 16.0 0.0 31.4



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

250000

200000

150000

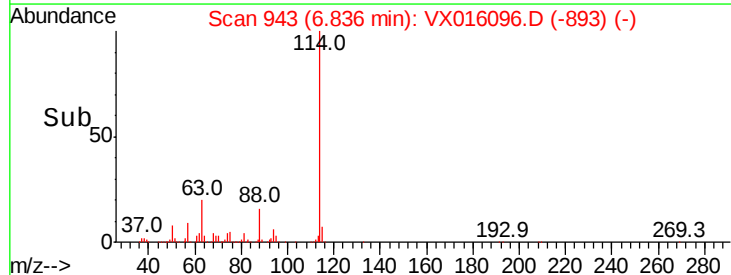
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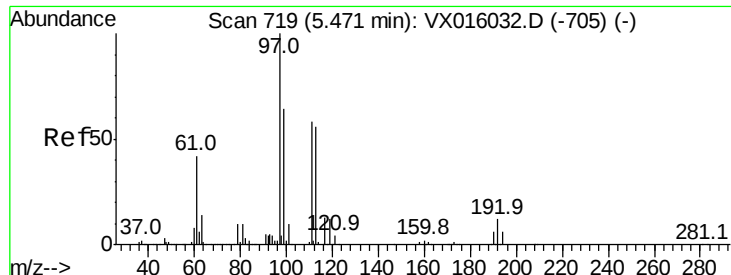
50000

0

Time-->

6.70 6.80 6.90

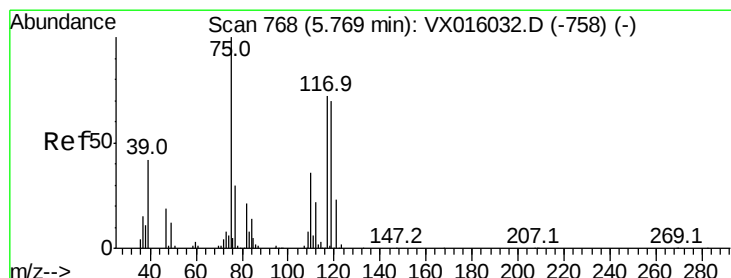
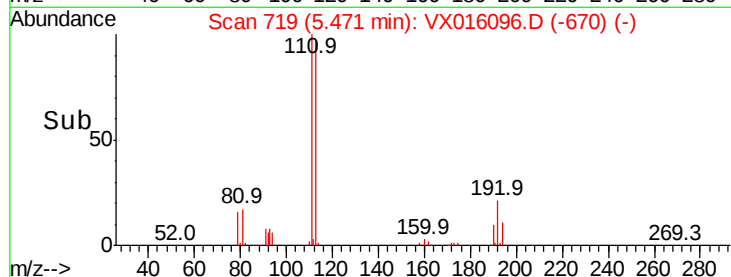
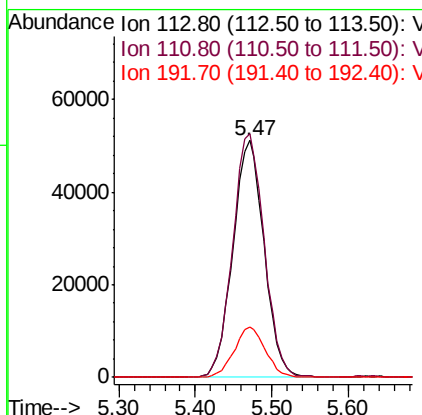
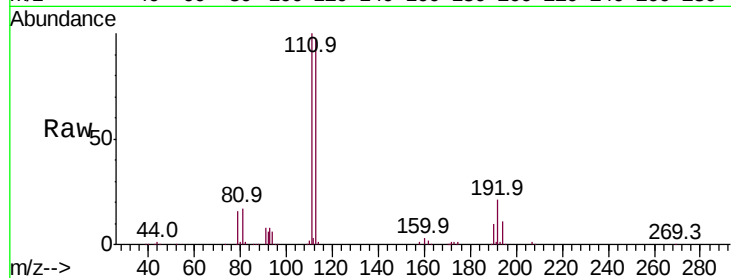




#35
Dibromofluoromethane
Concen: 46.781 ug/l
RT: 5.47 min Scan# 719
Delta R.T. -0.00 min
Lab File: VX016096.D
Acq: 07 May 2020 16:04

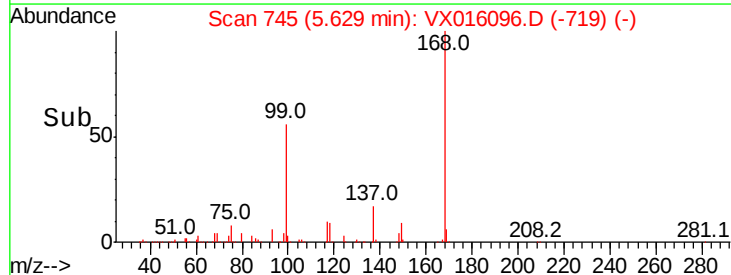
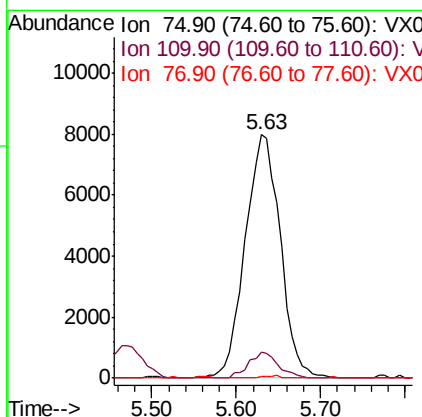
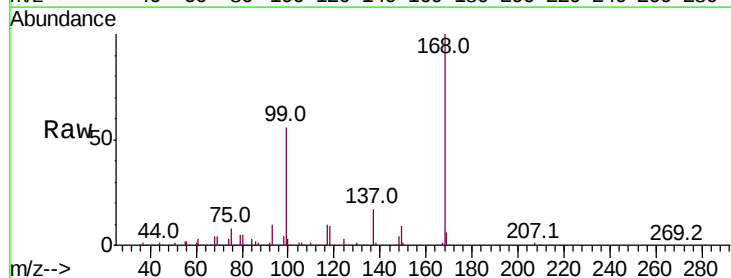
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Z4-EFF-200430

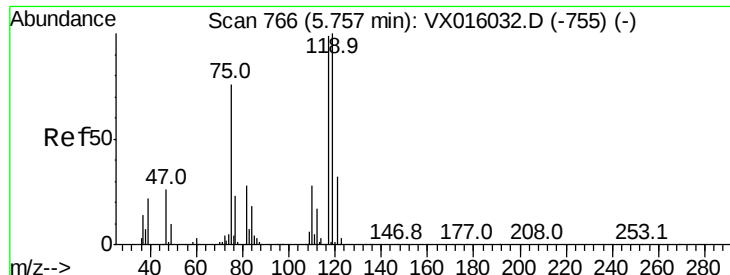
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.6	122.4
192	21.1	17.0	25.4



#36
1,1-Dichloropropene
Concen: 4.703 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.14 min
Lab File: VX016096.D
Acq: 07 May 2020 16:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.1	54.1#
77	0.4	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 5.948 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016096.D

Acq: 07 May 2020 16:04

Instrument :

MSVOA_X

ClientSampled :

Z4-EFF-200430

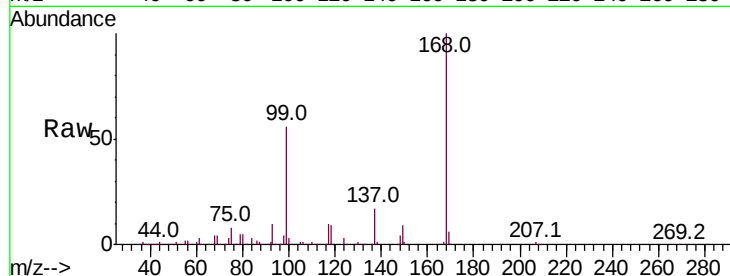
Tot Ion:117 Resp: 29043

Ion Ratio Lower Upper

117 100

119 4.0 80.3 120.5#

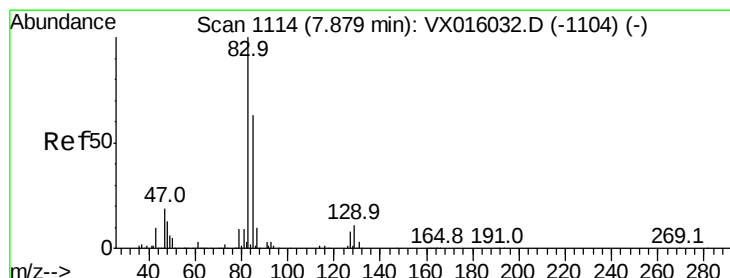
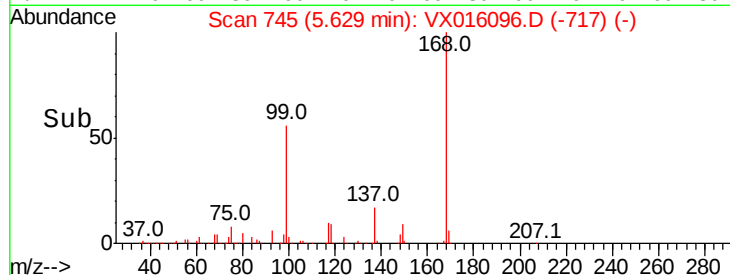
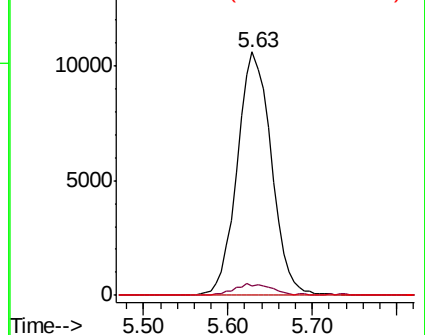
121 0.0 25.7 38.5#



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



#47

Bromodichloromethane

Concen: 1.445 ug/l

RT: 7.88 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VX016096.D

Acq: 07 May 2020 16:04

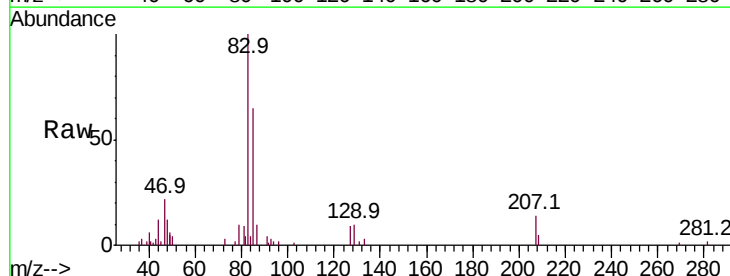
Tgt Ion: 83 Resp: 7113

Ion Ratio Lower Upper

83 100

85 65.3 50.5 75.7

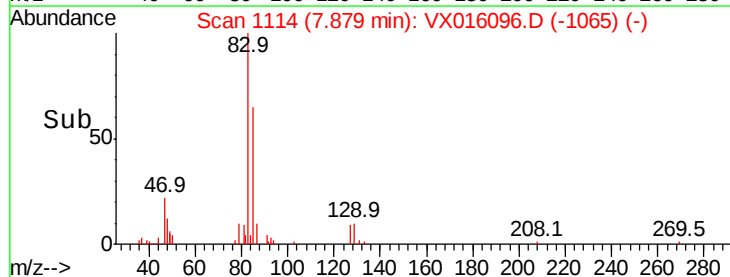
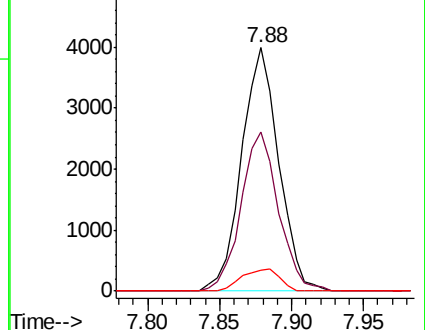
127 8.8 6.7 10.1

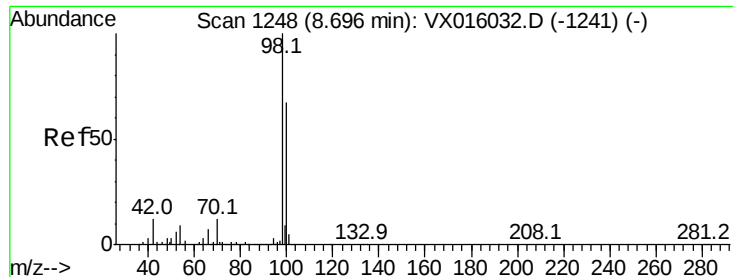


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V





#50

Toluene-d8

Concen: 50.034 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016096.D

Acq: 07 May 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

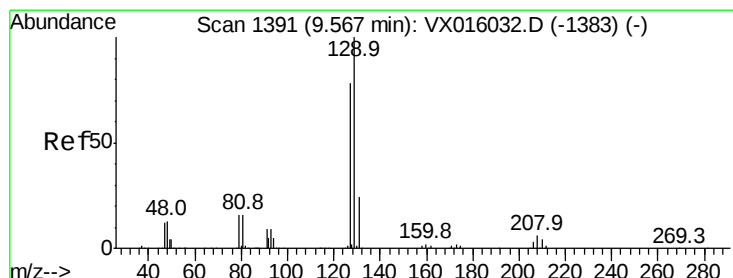
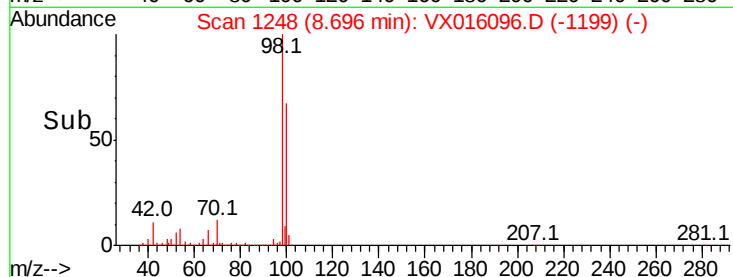
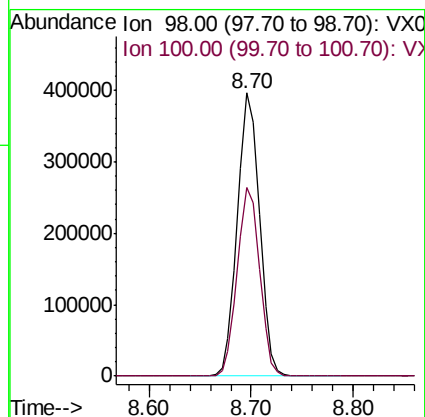
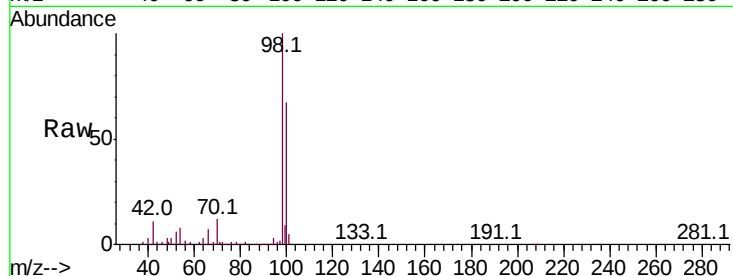
Z4-EFF-200430

Tot Ion: 98 Resp: 596044

Ion Ratio Lower Upper

98 100

100 67.0 53.7 80.5



#60

Dibromochloromethane

Concen: 2.633 ug/l

RT: 9.57 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VX016096.D

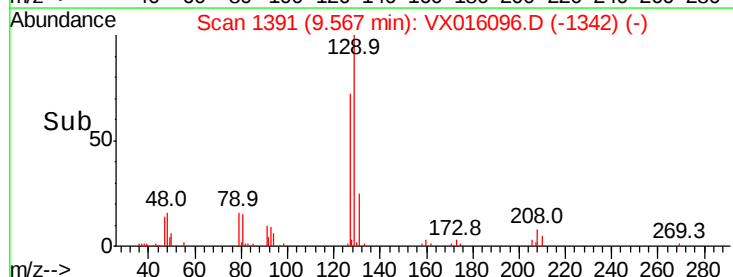
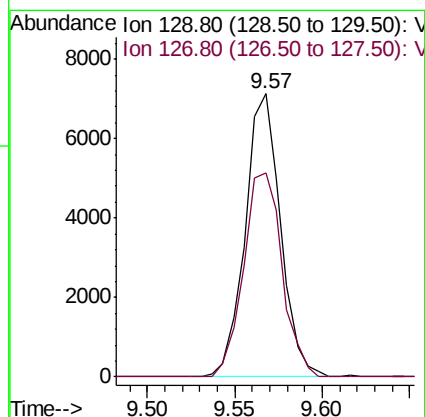
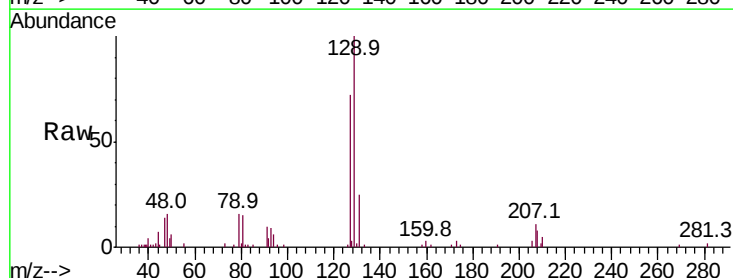
Acq: 07 May 2020 16:04

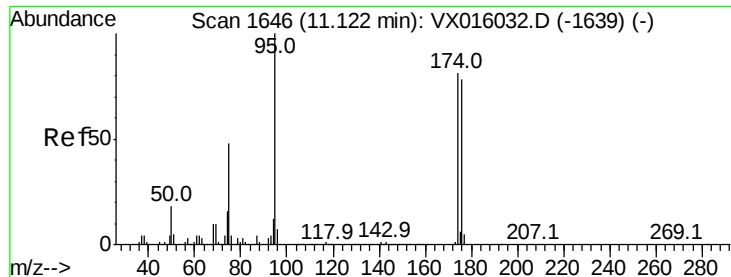
Tgt Ion:129 Resp: 9994

Ion Ratio Lower Upper

129 100

127 78.6 38.4 115.2





#62

4-Bromofluorobenzene

Concen: 53.352 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016096.D

Acq: 07 May 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z4-EFF-200430

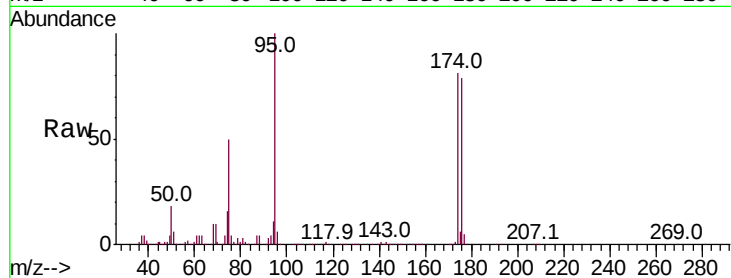
Tot Ion: 95 Resp: 241742

Ion Ratio Lower Upper

95 100

174 79.4 0.0 159.4

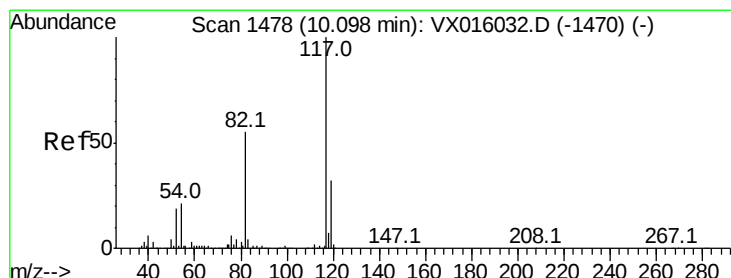
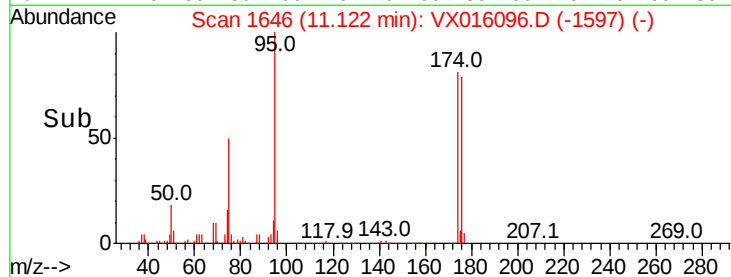
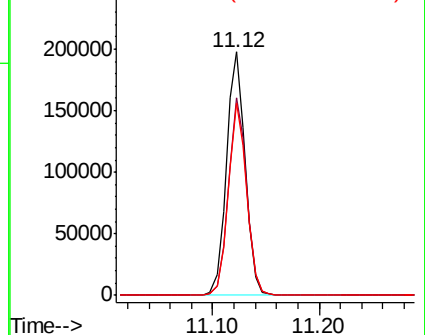
176 77.2 0.0 157.6



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: VX016096.D

Acq: 07 May 2020 16:04

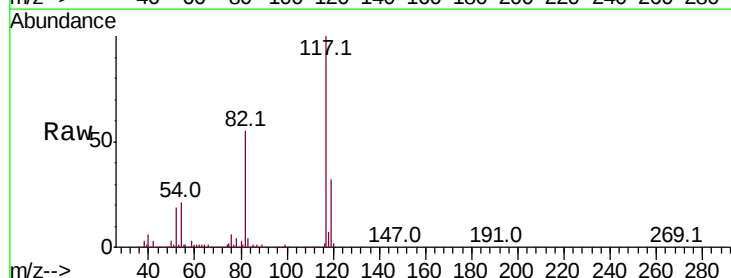
Tgt Ion: 117 Resp: 474955

Ion Ratio Lower Upper

117 100

82 54.9 44.4 66.6

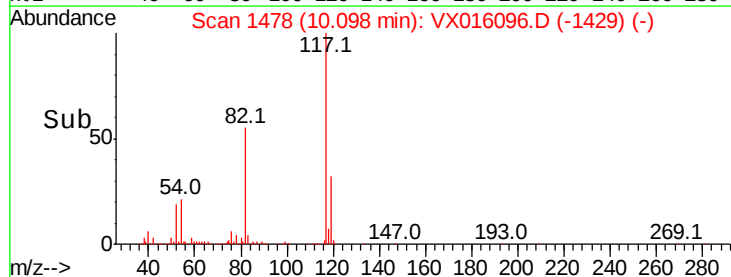
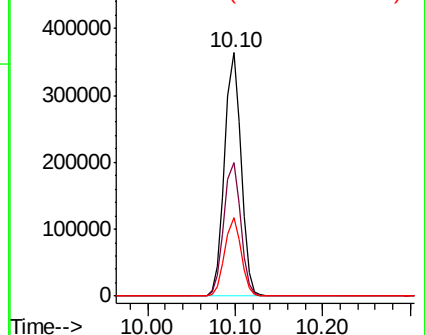
119 32.2 25.5 38.3

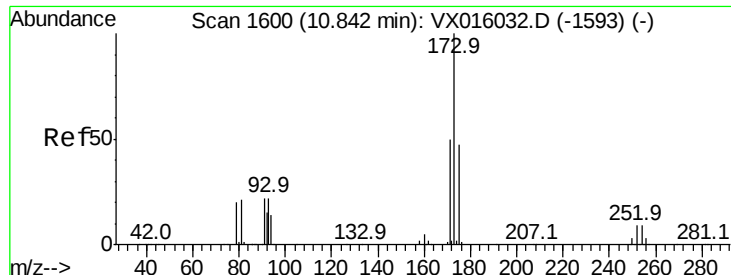


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 2.924 ug/l

RT: 10.84 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VX016096.D

Acq: 07 May 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z4-EFF-200430

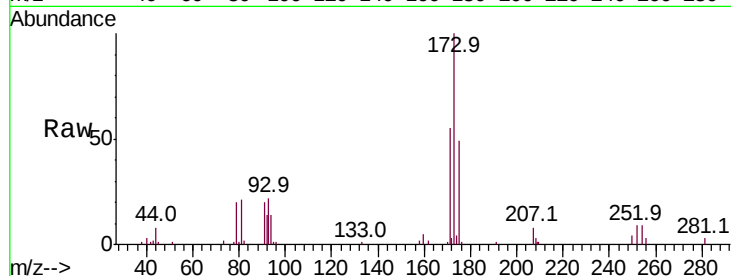
Tot Ion:173 Resp: 8758

Ion Ratio Lower Upper

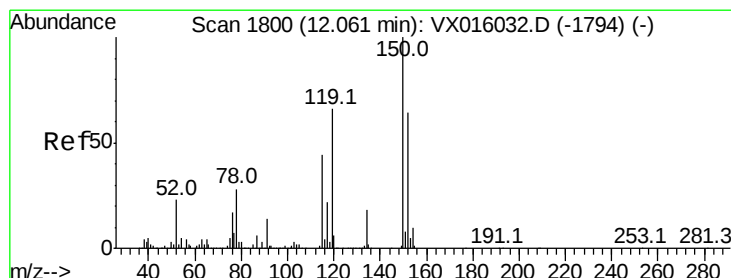
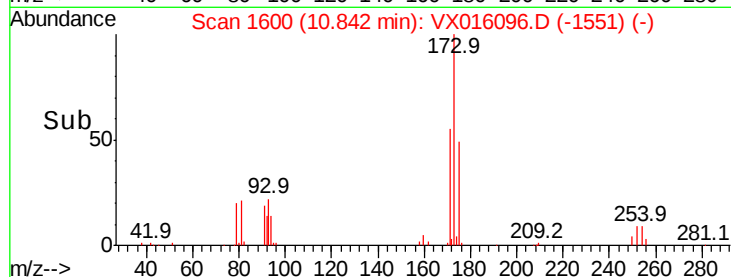
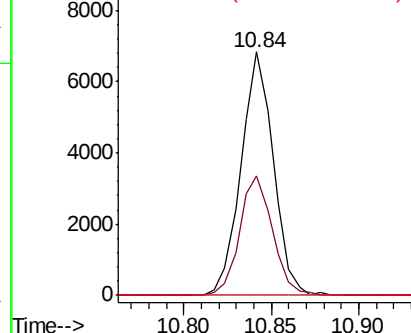
173 100

175 49.9 24.0 72.0

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VX016096.D

Acq: 07 May 2020 16:04

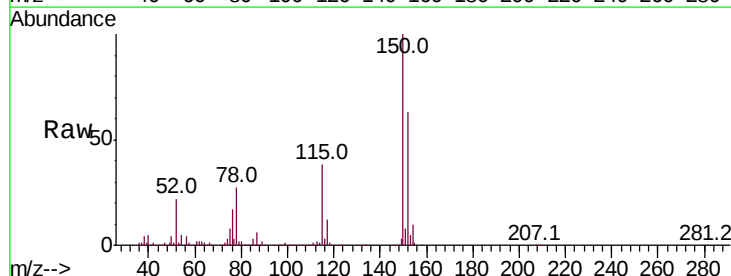
Tgt Ion:152 Resp: 247763

Ion Ratio Lower Upper

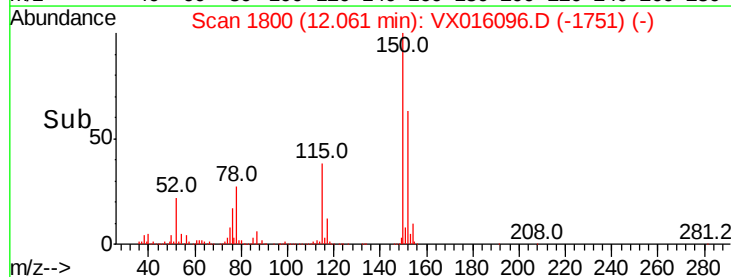
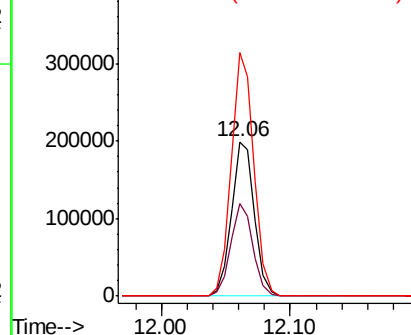
152 100

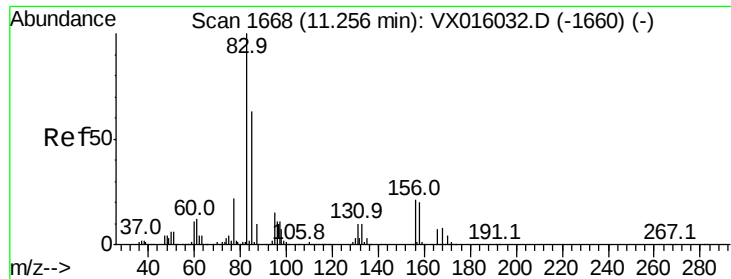
115 58.6 41.3 124.1

150 155.9 0.0 352.2



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





#75

1,1,2,2-Tetrachloroethane

Concen: 2.122 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016096.D

Acq: 07 May 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z4-EFF-200430

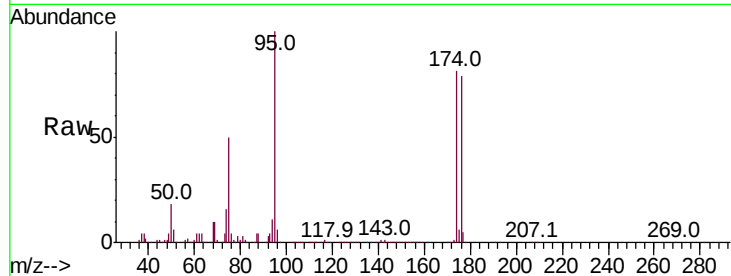
Tot Ion: 83 Resp: 245

Ion Ratio Lower Upper

83 100

131 116.7 5.1 15.4#

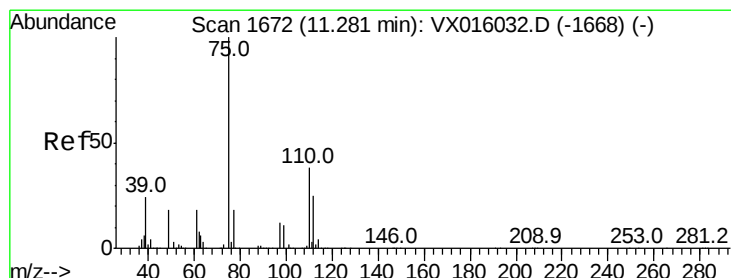
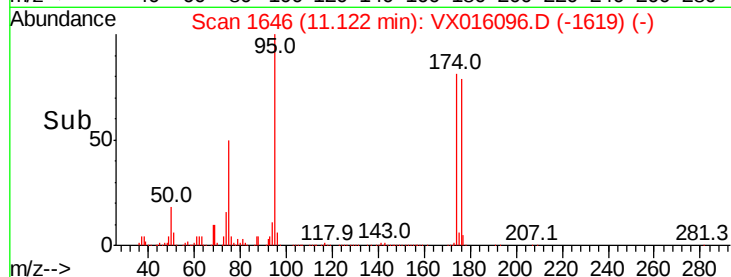
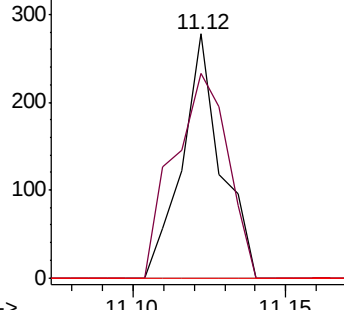
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.351 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016096.D

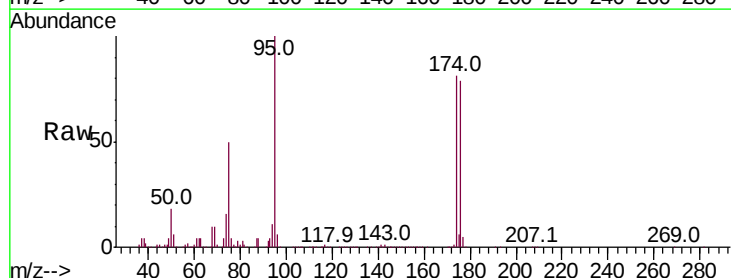
Acq: 07 May 2020 16:04

Tgt Ion: 75 Resp: 120042

Ion Ratio Lower Upper

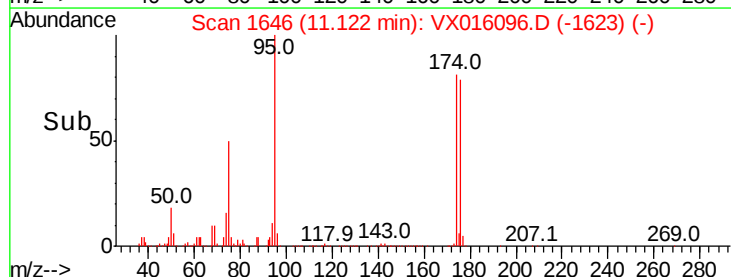
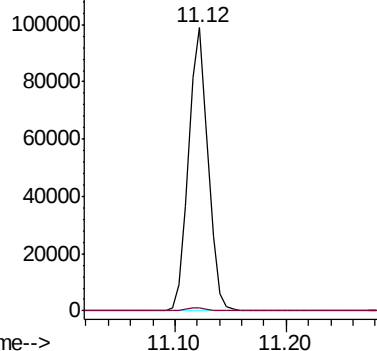
75 100

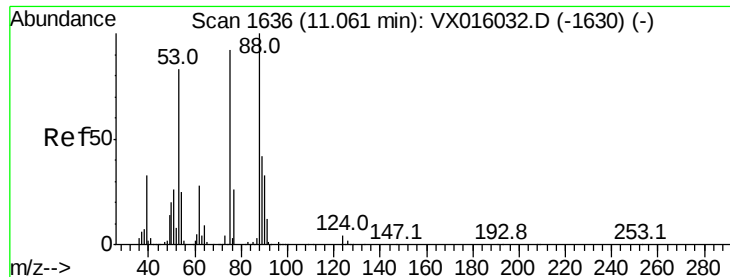
77 1.2 21.2 63.6#



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: 50.881 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016096.D

Acq: 07 May 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z4-EFF-200430

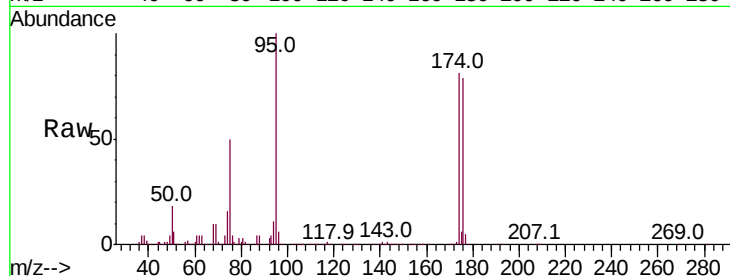
Tot Ion: 75 Resp: 120042

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

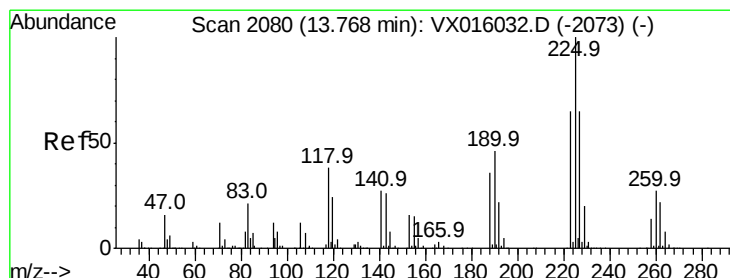
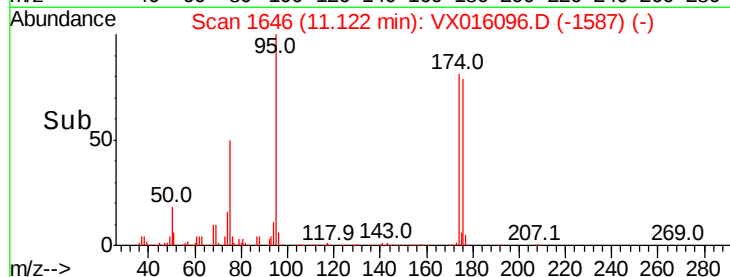
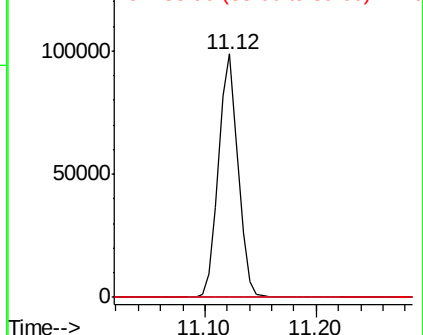
89 0.0 36.7 55.1#



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



#94

Hexachlorobutadiene

Concen: 0.548 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016096.D

Acq: 07 May 2020 16:04

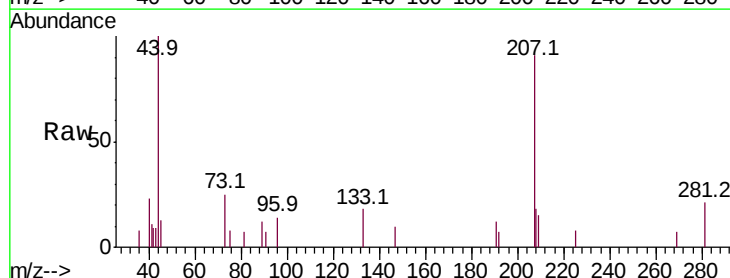
Tgt Ion: 225 Resp: 64

Ion Ratio Lower Upper

225 100

223 0.0 32.3 96.9#

227 0.0 31.8 95.4#



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

