

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052920\
 Data File : VX016509.D
 Acq On : 29 May 2020 14:32
 Operator : JC/SP
 Sample : PB129191TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129191TB

Quant Time: May 30 01:42:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	290381	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	472003	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	462158	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	224347	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	172452	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
35) Dibromofluoromethane	5.47	113	137462	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	
50) Toluene-d8	8.70	98	586512	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	11.12	95	233527	53.43	ug/l	0.00
Spiked Amount			Recovery	=	106.86%	

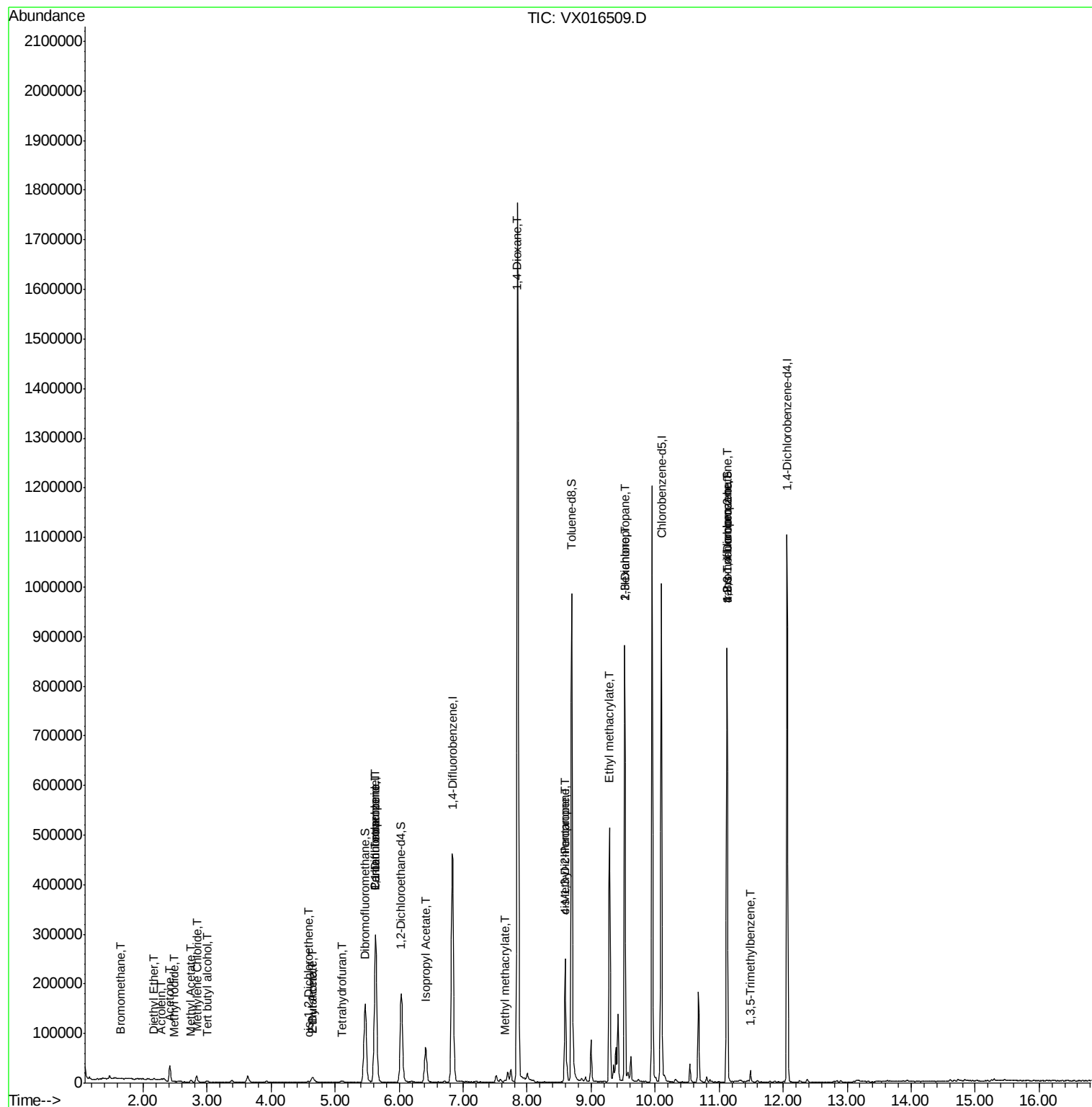
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	467	0.263	ug/l	89
8) Diethyl Ether	2.17	74	616	0.308	ug/l	58
10) Methyl Iodide	2.49	142	190	3.112	ug/l #	54
11) Tert butyl alcohol	3.01	59	2034	2.200	ug/l #	91
13) Acrolein	2.28	56	432	1.098	ug/l	99
16) Acetone	2.42	43	31481	19.925	ug/l	98
18) Methyl Acetate	2.75	43	3954	0.976	ug/l	94
20) Methylene Chloride	2.83	84	5775	1.767	ug/l	89
25) 2-Butanone	4.64	43	8143	3.042	ug/l	94
27) cis-1,2-Dichloroethene	4.58	96	1142	0.319	ug/l	66
29) Tetrahydrofuran	5.10	42	2251	1.301	ug/l #	81
36) 1,1-Dichloropropene	5.62	75	20925	4.682	ug/l #	51
37) Ethyl Acetate	4.64	43	8143	1.518	ug/l #	69
38) Carbon Tetrachloride	5.64	117	27869	5.934	ug/l #	16
43) Isopropyl Acetate	6.42	43	96537	11.535	ug/l	99
48) Methyl methacrylate	7.65	41	5592	1.396	ug/l #	14
49) 1,4-Dioxane	7.84	88	303	3.231	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	91909	17.637	ug/l #	45
54) cis-1,3-Dichloropropene	8.59	75	42361	7.470	ug/l #	59
56) Ethyl methacrylate	9.29	69	1356	0.250	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	7646	1.335	ug/l #	42
59) 2-Hexanone	9.52	43	95772	23.633	ug/l #	50
76) 1,2,3-Trichloropropane	11.12	75	114099	23.138	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.49	105	9736	0.750	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	114099	56.916	ug/l #	14

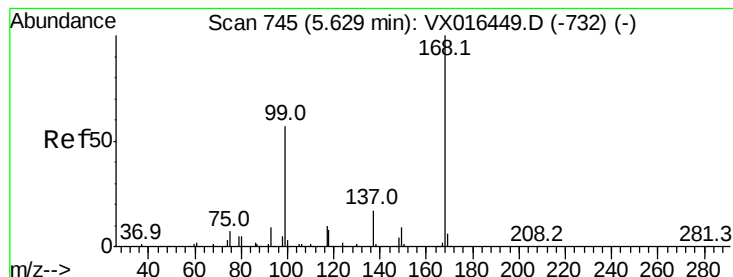
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 30 01:42:27 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
Quant Title : SW846 8260
QLast Update : Wed May 27 16:31:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

Instrument :

MSVOA_X

ClientSampleId :

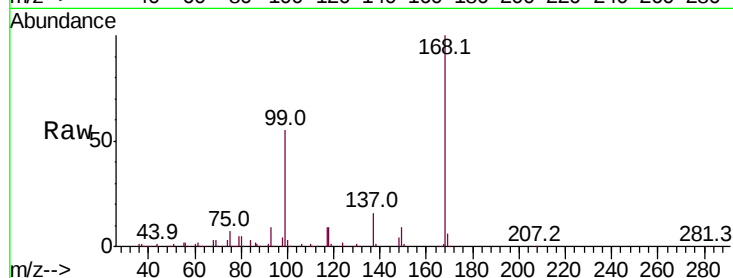
PB129191TB

Tot Ion:168 Resp: 290381

Ion Ratio Lower Upper

168 100

99 54.7 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

60000

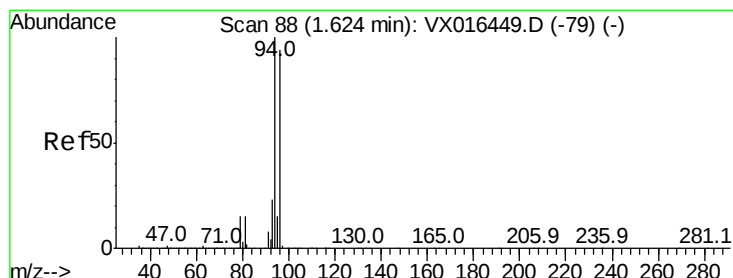
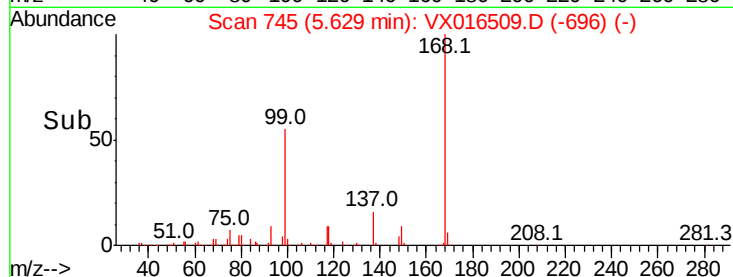
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.263 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX016509.D

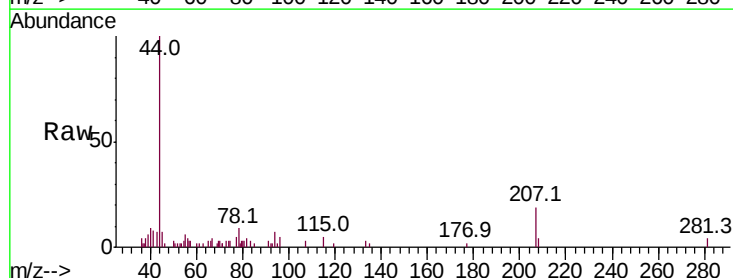
Acq: 29 May 2020 14:32

Tgt Ion: 94 Resp: 467

Ion Ratio Lower Upper

94 100

96 83.5 75.1 112.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

150

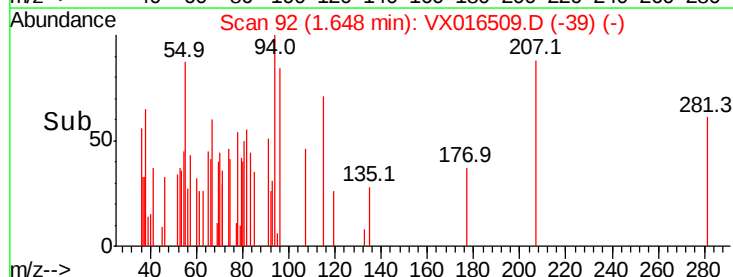
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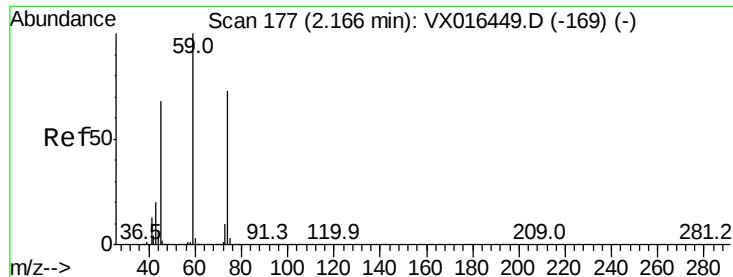
50

0

1.60 1.65

Time-->





#8

Diethyl Ether

Concen: 0.308 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.00 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

Instrument :

MSVOA_X

ClientSampleId :

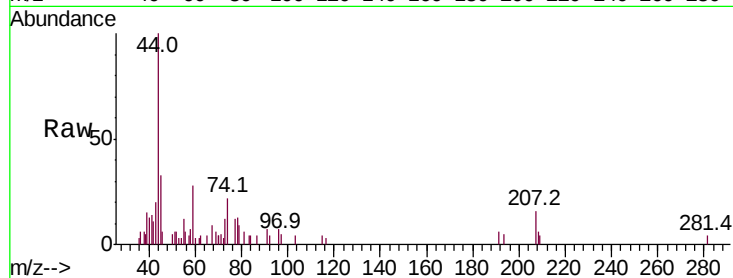
PB129191TB

Tot Ion: 74 Resp: 616

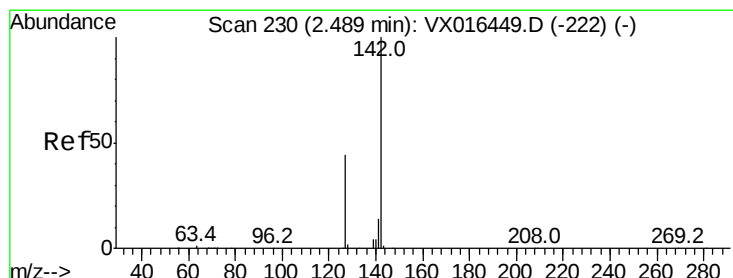
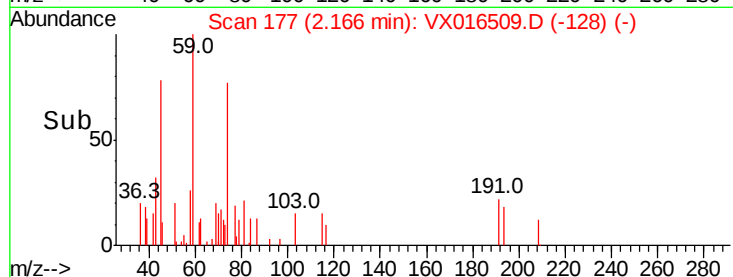
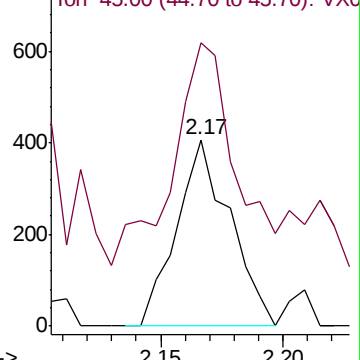
Ion Ratio Lower Upper

74 100

45 136.2 47.5 142.5



Abundance Ion 74.00 (73.70 to 74.70): VX0



#10

Methyl Iodide

Concen: 3.112 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

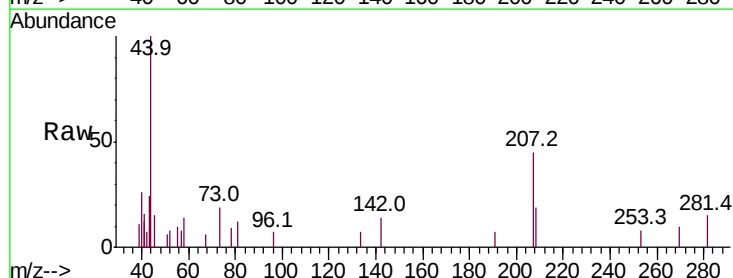
Tgt Ion: 142 Resp: 190

Ion Ratio Lower Upper

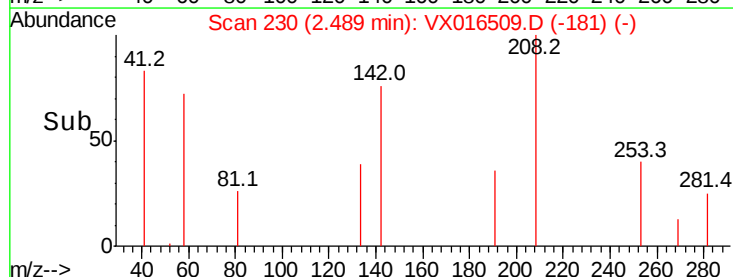
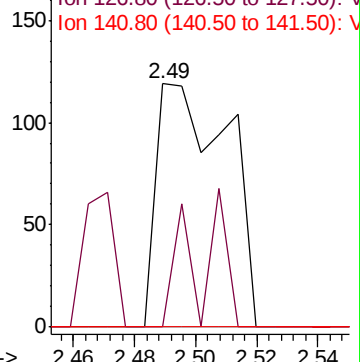
142 100

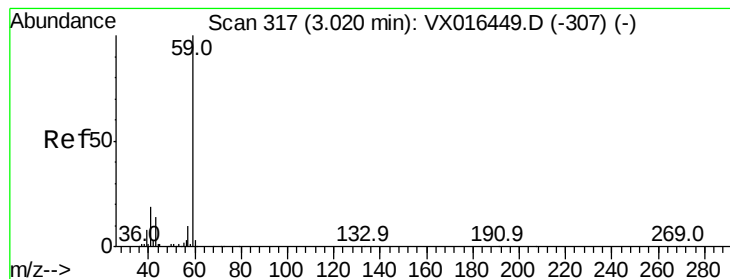
127 11.6 35.3 52.9#

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V



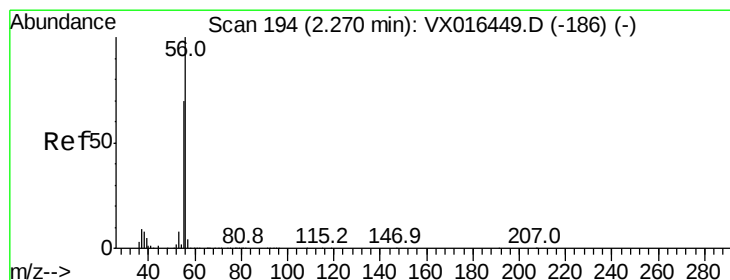
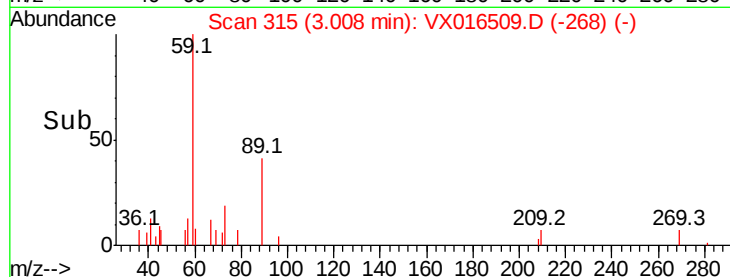
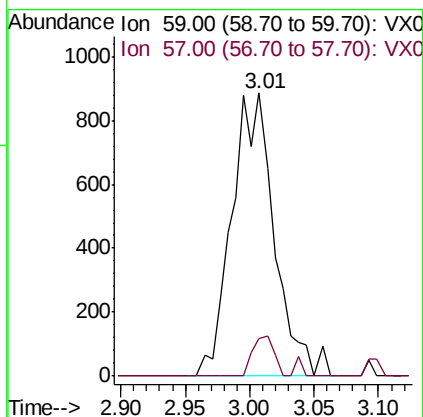
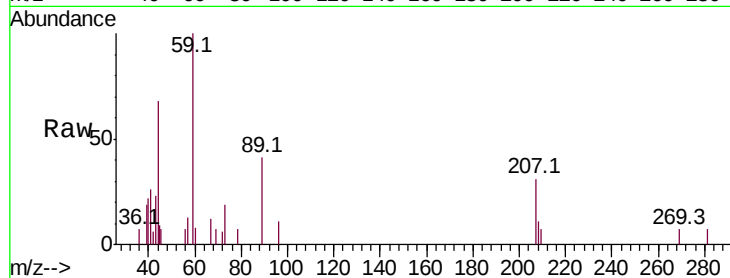


#11

Tert butyl alcohol
 Concen: 2.200 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX016509.D
 Acq: 29 May 2020 14:32

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129191TB

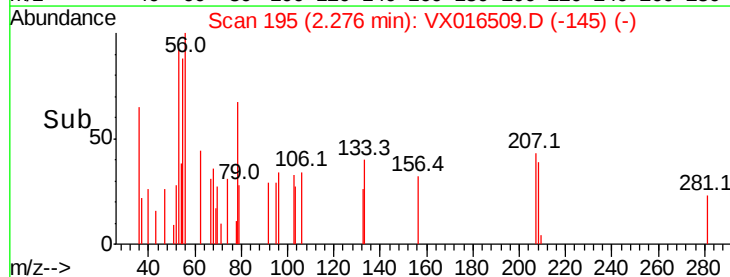
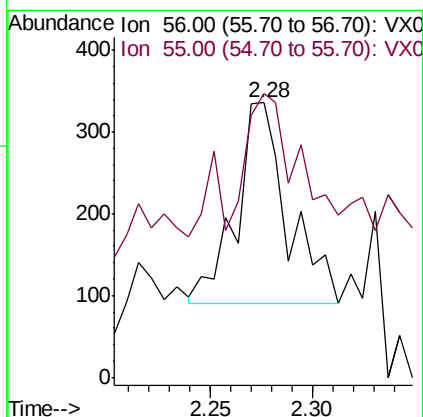
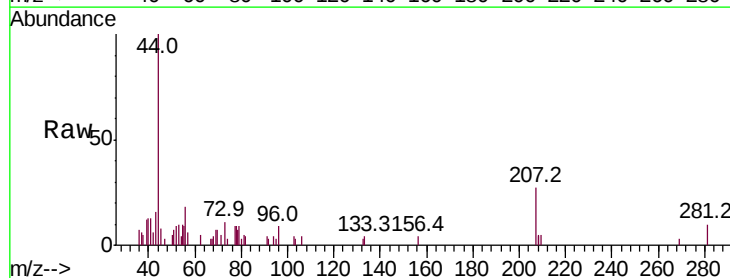
Tot Ion: 59 Resp: 2034
 Ion Ratio Lower Upper
 59 100
 57 6.8 8.2 12.4#

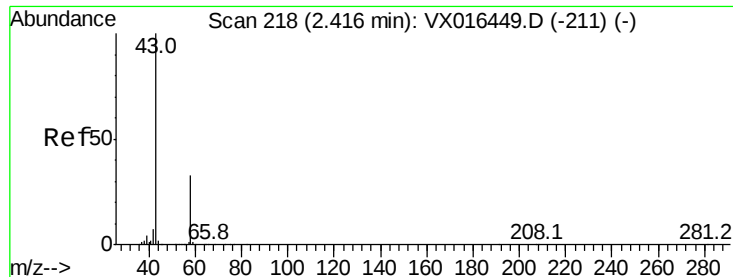


#13

Acrolein
 Concen: 1.098 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.01 min
 Lab File: VX016509.D
 Acq: 29 May 2020 14:32

Tgt Ion: 56 Resp: 432
 Ion Ratio Lower Upper
 56 100
 55 74.1 58.3 87.5





#16

Acetone

Concen: 19.925 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

Instrument :

MSVOA_X

ClientSampleId :

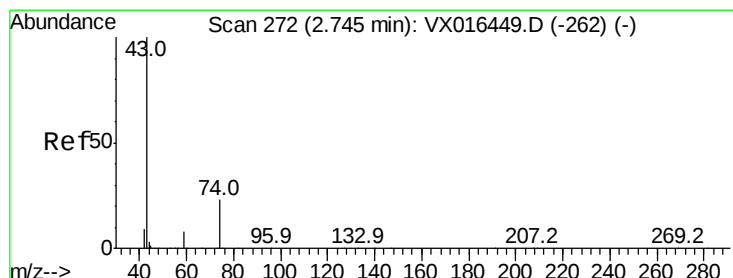
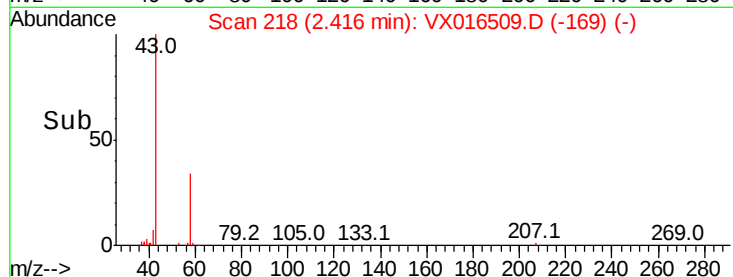
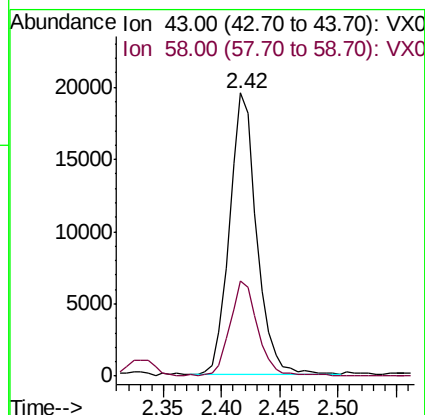
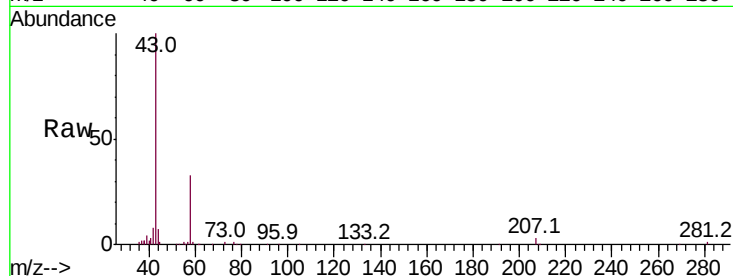
PB129191TB

Tot Ion: 43 Resp: 31481

Ion Ratio Lower Upper

43 100

58 33.7 26.1 39.1



#18

Methyl Acetate

Concen: 0.976 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX016509.D

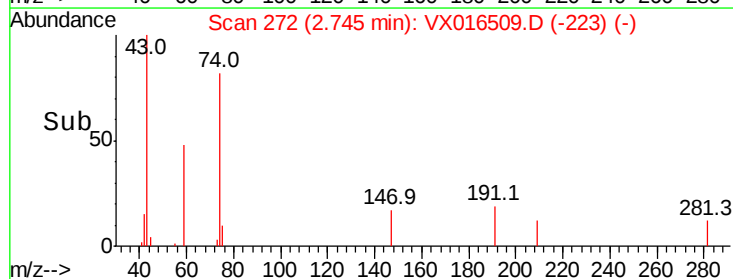
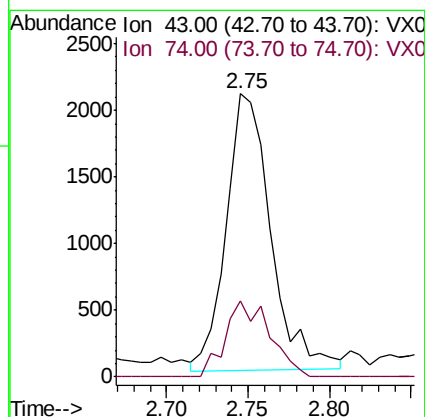
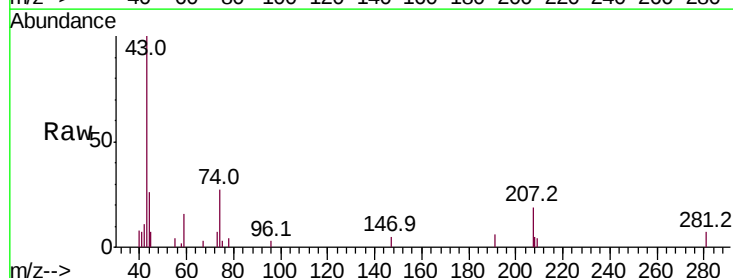
Acq: 29 May 2020 14:32

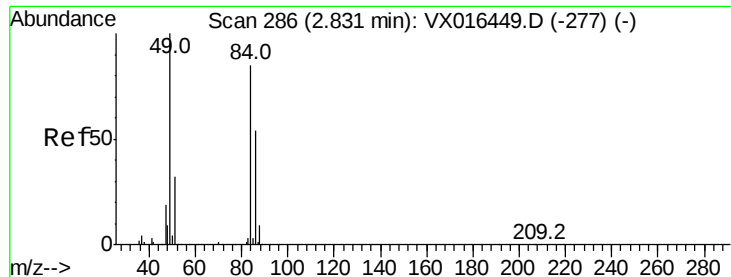
Tgt Ion: 43 Resp: 3954

Ion Ratio Lower Upper

43 100

74 27.4 19.7 29.5

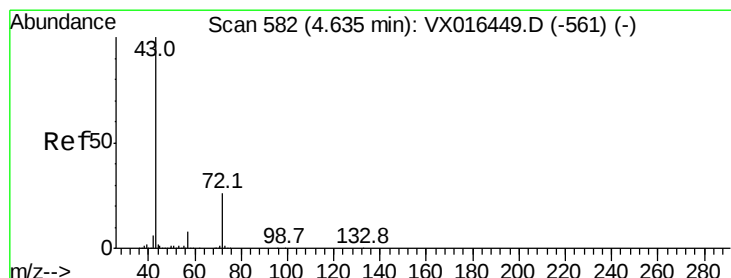
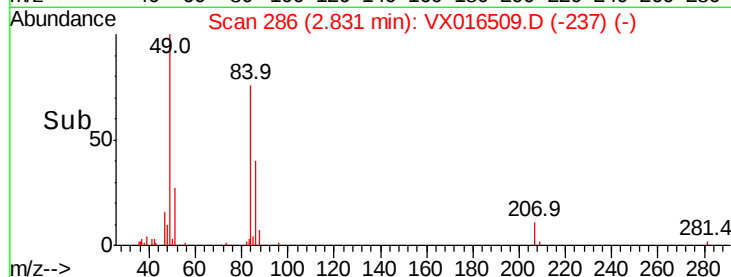
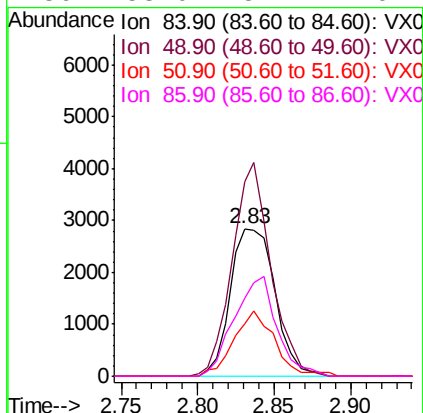
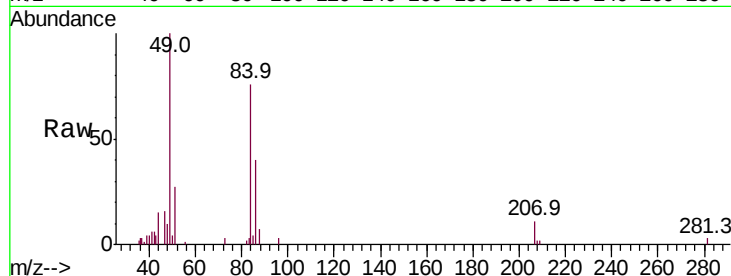




#20
Methvlene Chloride
Concen: 1.767 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX016509.D
Acq: 29 May 2020 14:32

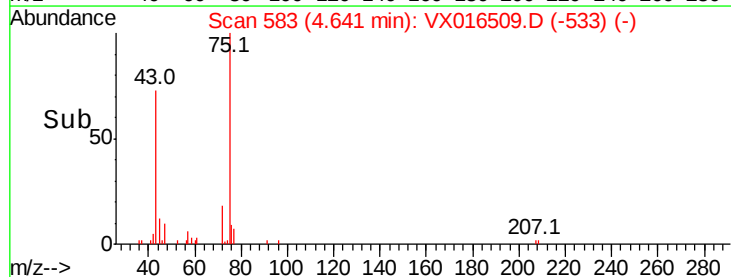
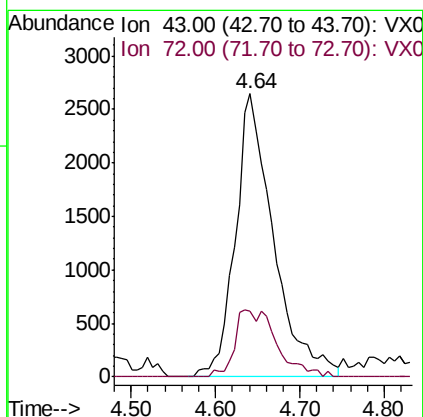
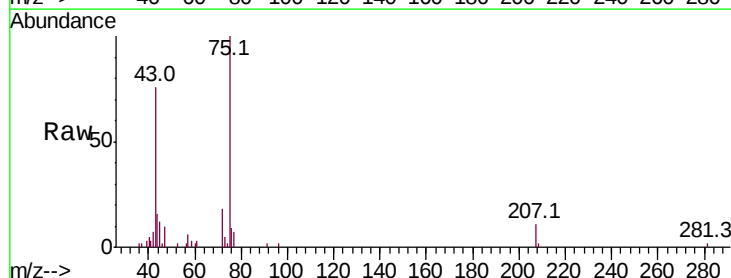
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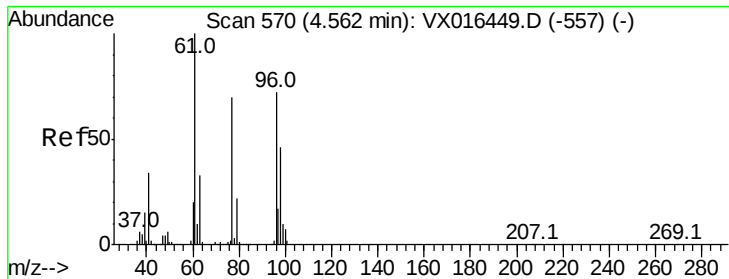
Tot Ion:	84	Resp:	5775
Ion	Ratio	Lower	Upper
84	100		
49	131.4	94.5	141.7
51	35.8	30.2	45.4
86	53.0	51.1	76.7



#25
2-Butanone
Concen: 3.042 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016509.D
Acq: 29 May 2020 14:32

Tgt Ion:	43	Resp:	8143
Ion	Ratio	Lower	Upper
43	100		
72	23.1	21.0	31.6



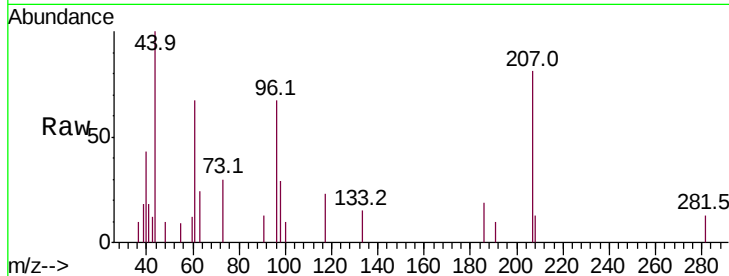


#27

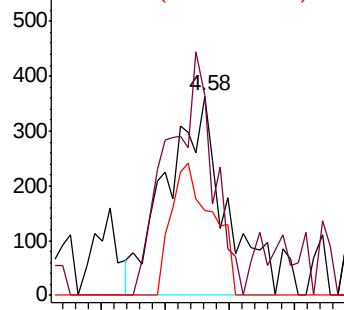
cis-1,2-Dichloroethene
Concen: 0.319 ug/l
RT: 4.58 min Scan# 573
Delta R.T. 0.02 min
Lab File: VX016509.D
Acq: 29 May 2020 14:32

Instrument :
MSVOA_X
ClientSampled :
PB129191TB

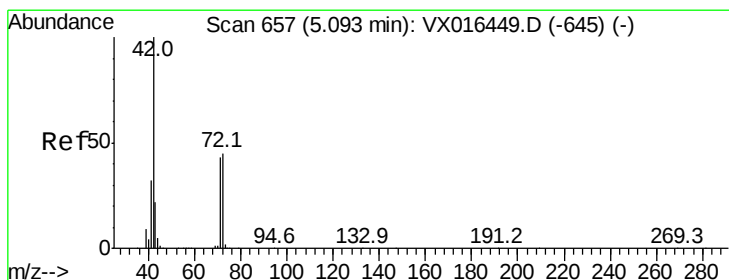
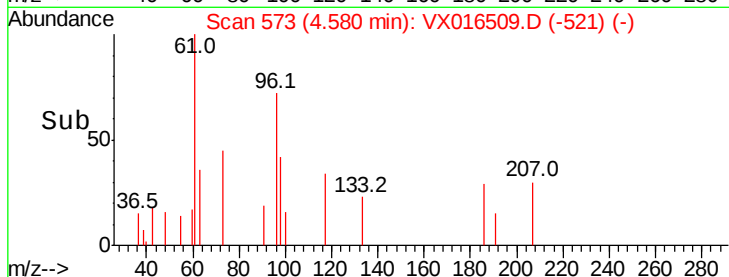
Tot Ion	Ratio	Lower	Upper
96	100		
61	94.0	0.0	284.6
98	47.4	0.0	127.2



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



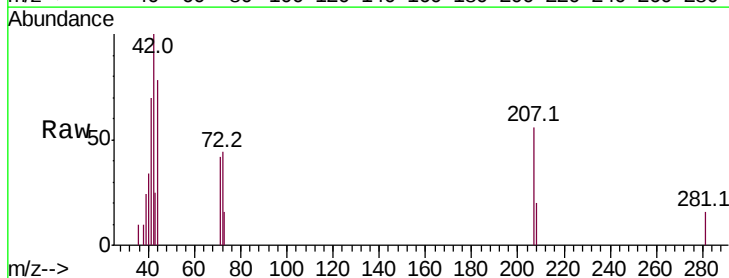
Time-->



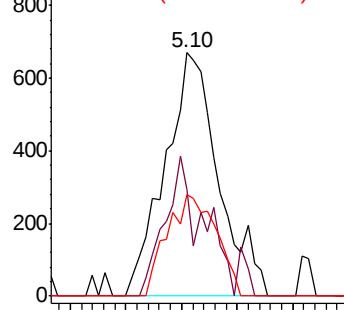
#29

Tetrahydrofuran
Concen: 1.301 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX016509.D
Acq: 29 May 2020 14:32

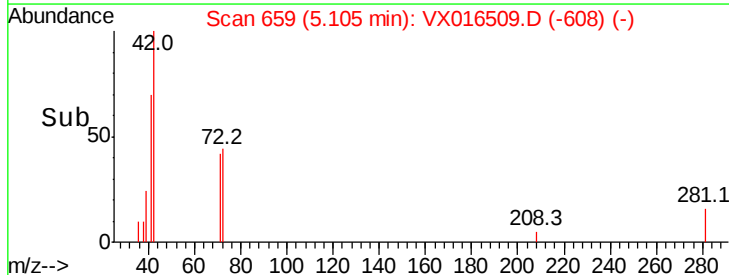
Tgt Ion	Ratio	Lower	Upper
42	100		
72	26.4	37.0	55.4#
71	38.0	34.1	51.1

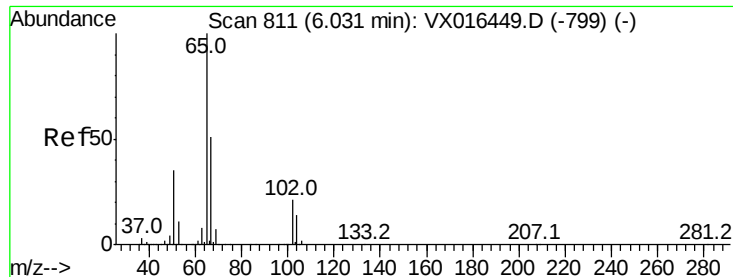


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 47.822 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

Instrument :

MSVOA_X

ClientSampleId :

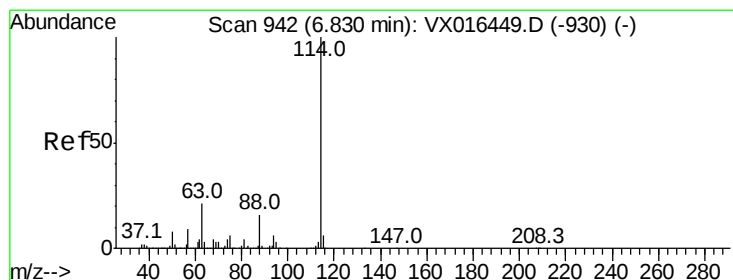
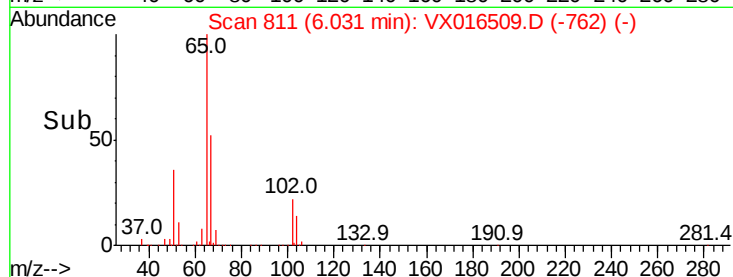
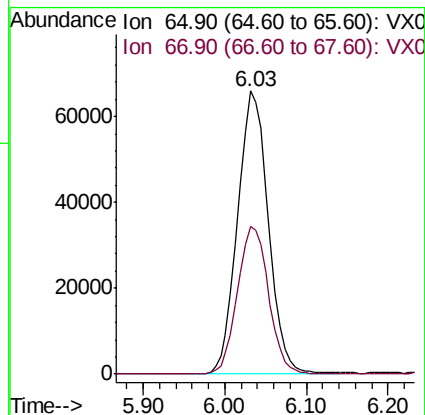
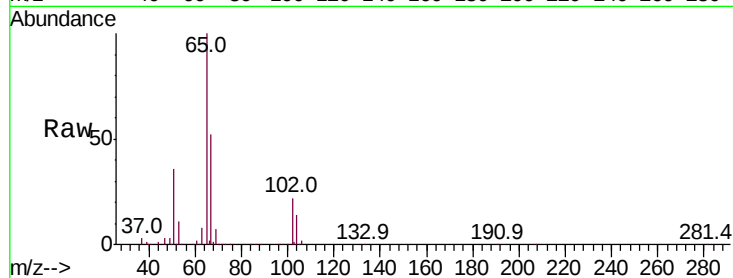
PB129191TB

Tot Ion: 65 Resp: 172452

Ion Ratio Lower Upper

65 100

67 52.8 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

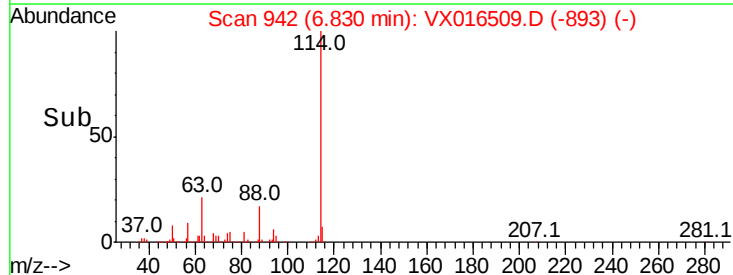
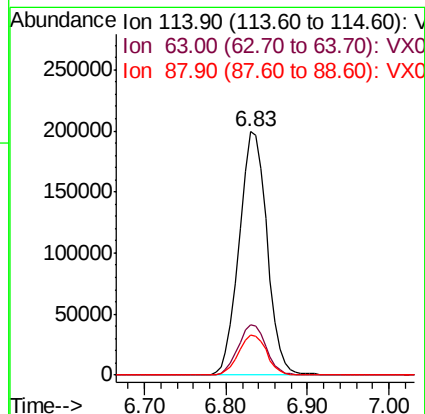
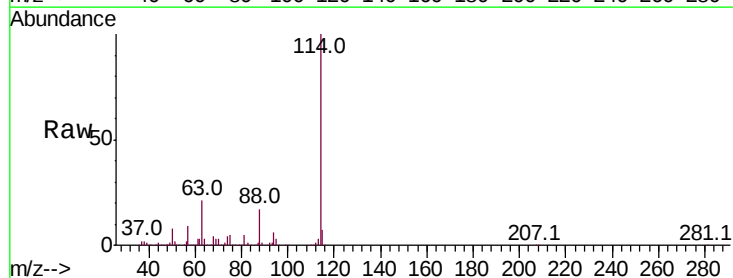
Tgt Ion: 114 Resp: 472003

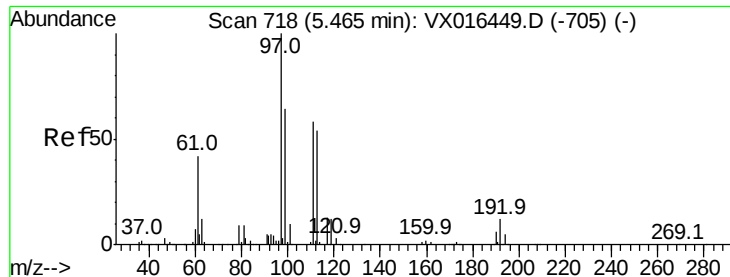
Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.6

88 16.7 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.297 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

Instrument :

MSVOA_X

ClientSampleId :

PB129191TB

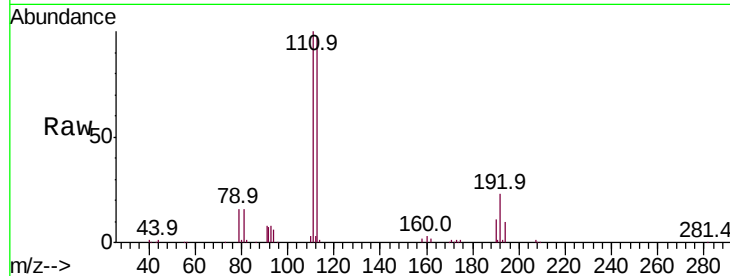
Tot Ion:113 Resp: 137462

Ion Ratio Lower Upper

113 100

111 103.4 83.0 124.6

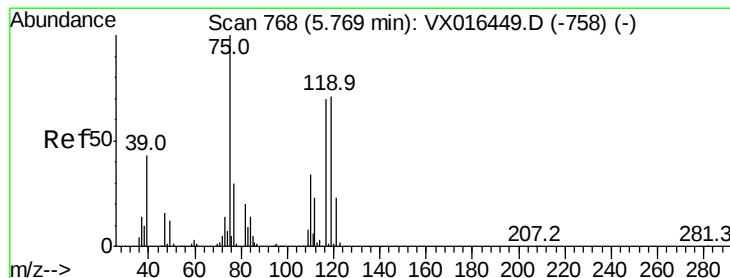
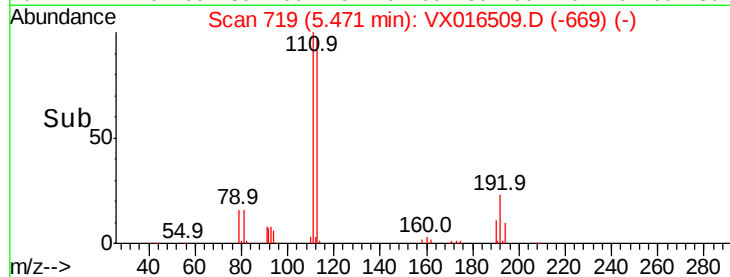
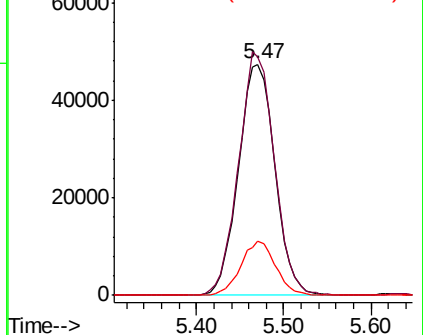
192 22.3 17.7 26.5



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: 4.682 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

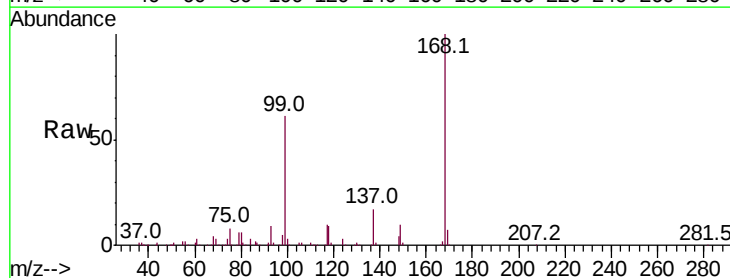
Tgt Ion: 75 Resp: 20925

Ion Ratio Lower Upper

75 100

110 9.5 17.4 52.3#

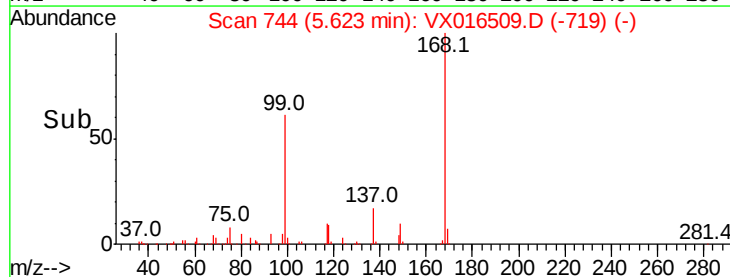
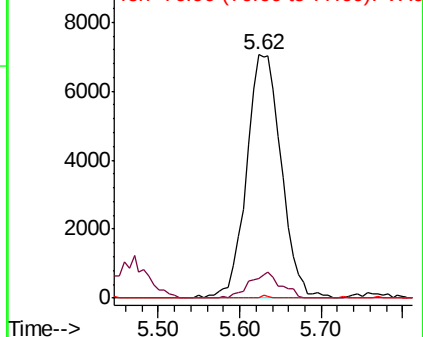
77 0.2 24.2 36.4#

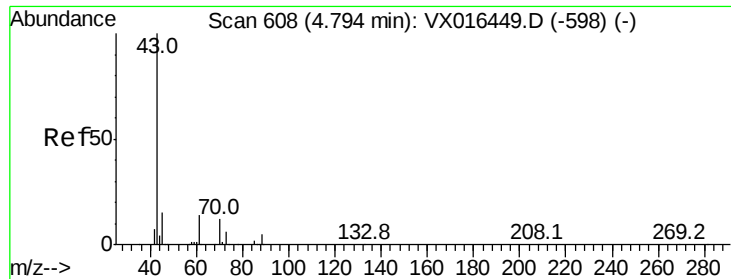


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

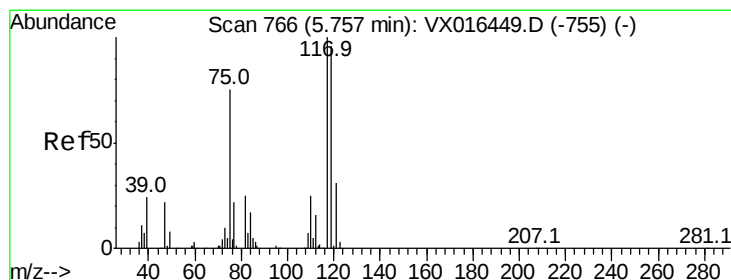
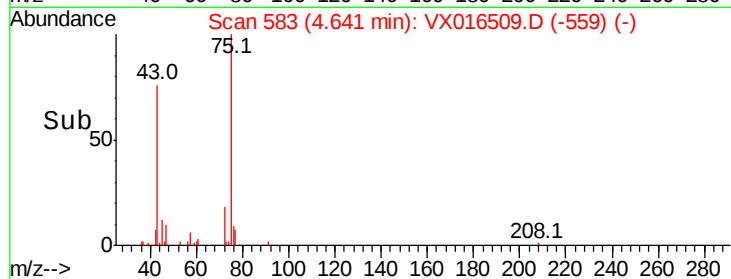
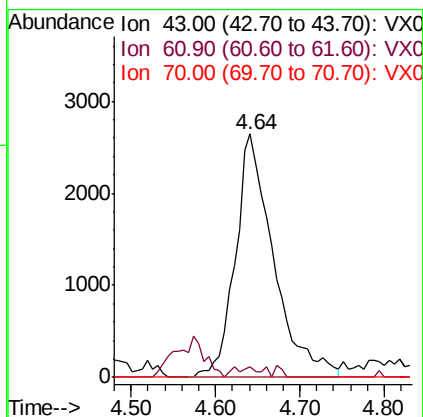
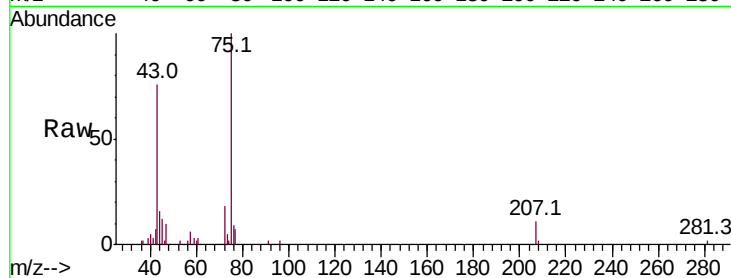




#37
Ethyl Acetate
Concen: 1.518 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.15 min
Lab File: VX016509.D
Acq: 29 May 2020 14:32

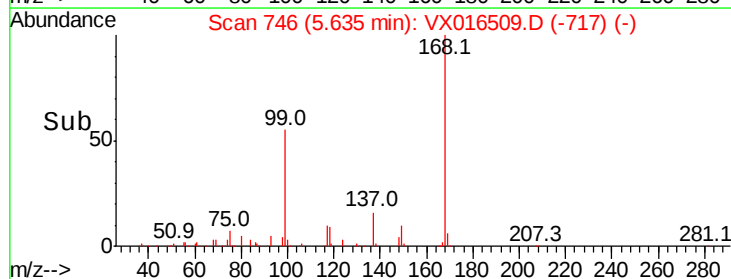
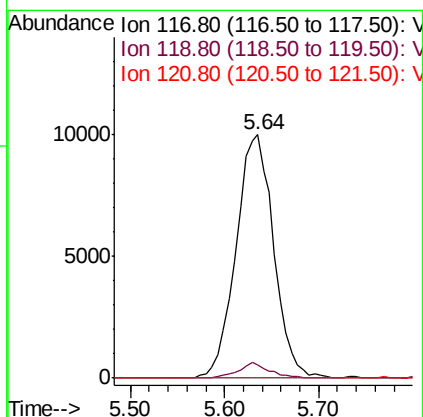
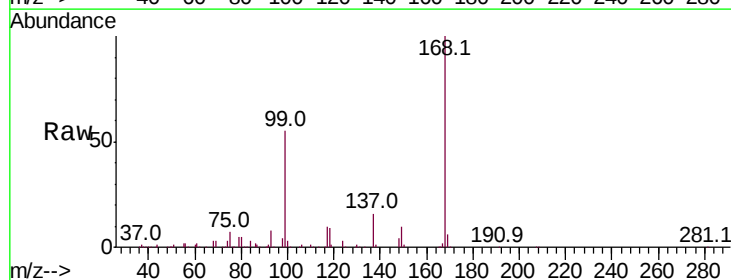
Instrument :
MSVOA_X
ClientSampleId :
PB129191TB

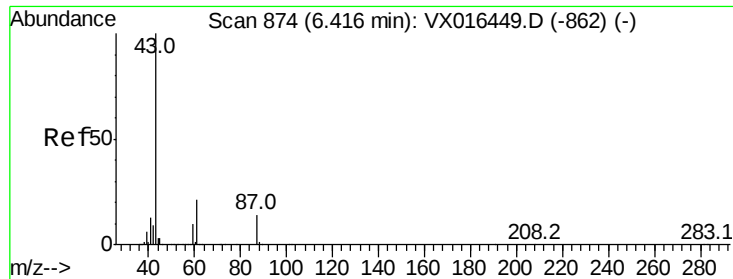
Tot Ion: 43 Resp: 8143
Ion Ratio Lower Upper
43 100
61 1.0 11.3 16.9#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 5.934 ug/l
RT: 5.64 min Scan# 746
Delta R.T. -0.12 min
Lab File: VX016509.D
Acq: 29 May 2020 14:32

Tgt Ion: 117 Resp: 27869
Ion Ratio Lower Upper
117 100
119 5.4 76.3 114.5#
121 0.0 24.6 37.0#



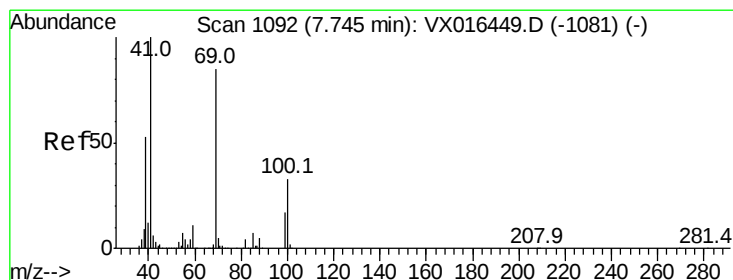
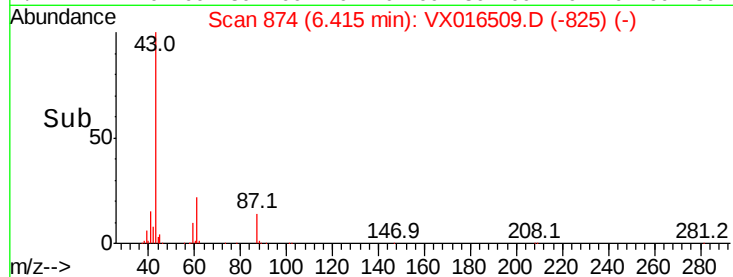
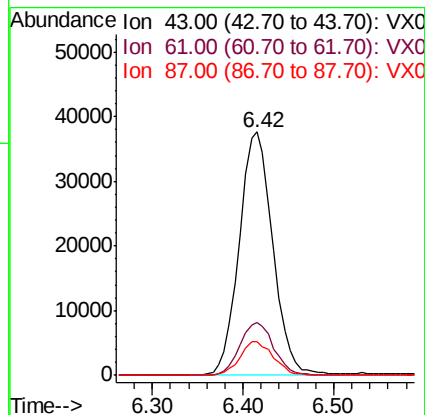
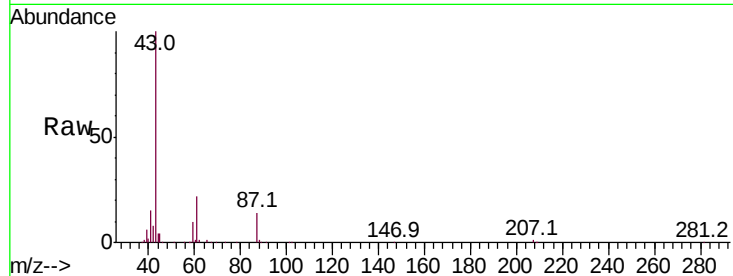


#43

Isopropyl Acetate
 Concen: 11.535 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. -0.00 min
 Lab File: VX016509.D
 Acq: 29 May 2020 14:32

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129191TB

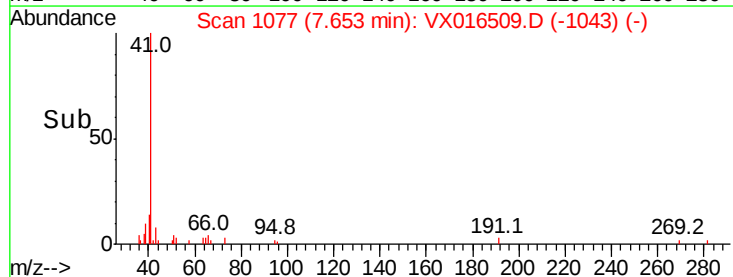
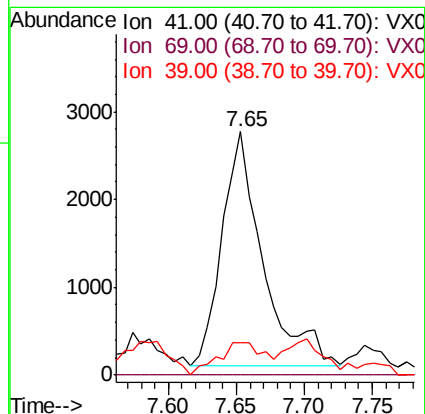
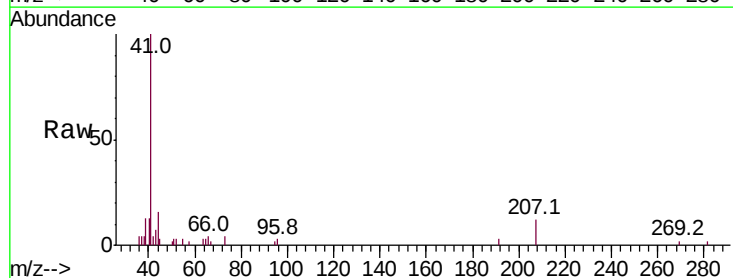
Tot Ion	Ratio	Lower	Upper
43	100		
61	21.9	16.8	25.2
87	13.8	11.2	16.8

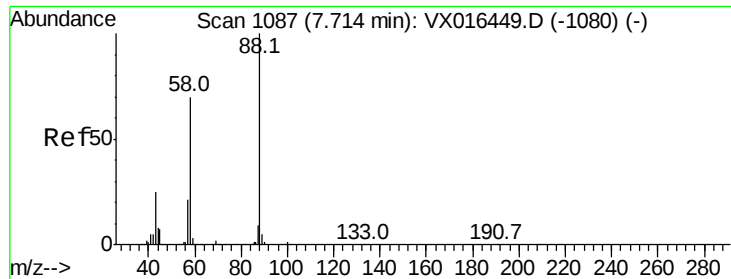


#48

Methyl methacrylate
 Concen: 1.396 ug/l
 RT: 7.65 min Scan# 1077
 Delta R.T. -0.09 min
 Lab File: VX016509.D
 Acq: 29 May 2020 14:32

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	68.6	102.8#
39	0.0	42.4	63.6#





#49

1,4-Dioxane

Concen: 3.231 ug/l

RT: 7.84 min Scan# 1108

Delta R.T. 0.13 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

Instrument :

MSVOA_X

ClientSampleId :

PB129191TB

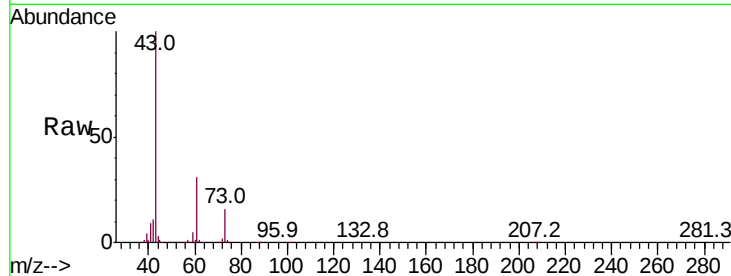
Tot Ion: 88 Resp: 303

Ion Ratio Lower Upper

88 100

43 540223.4 24.2 36.4#

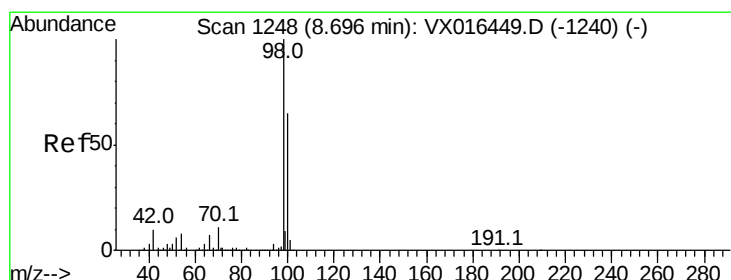
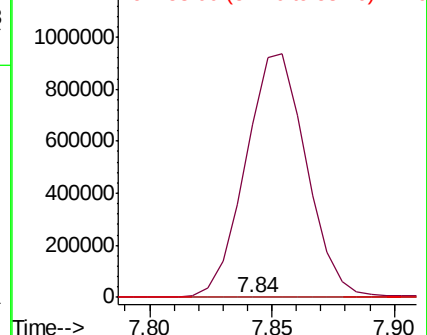
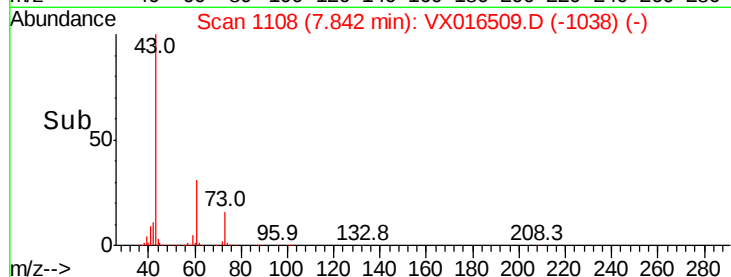
58 2269.3 56.5 84.7#



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: 51.848 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016509.D

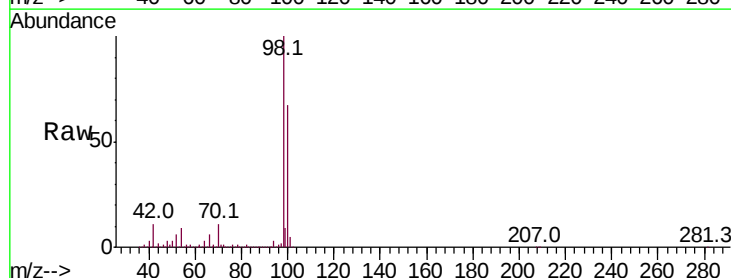
Acq: 29 May 2020 14:32

Tgt Ion: 98 Resp: 586512

Ion Ratio Lower Upper

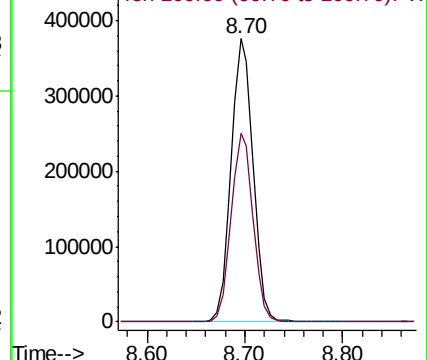
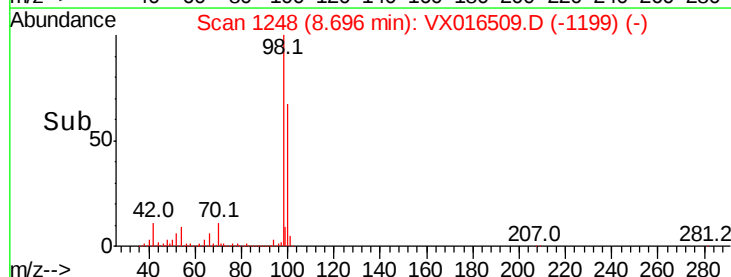
98 100

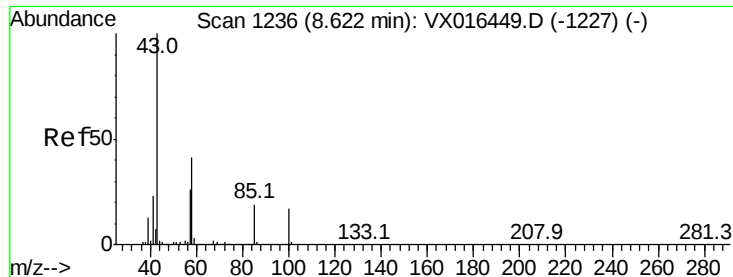
100 66.4 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 17.637 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

Instrument :

MSVOA_X

ClientSampleId :

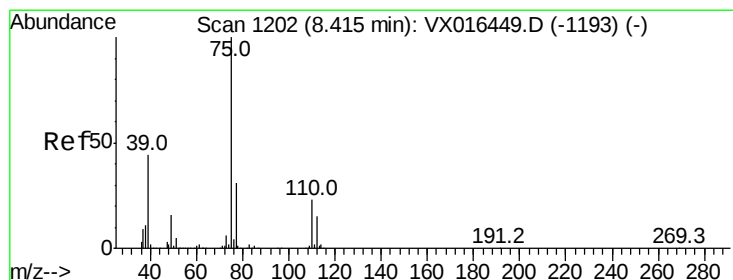
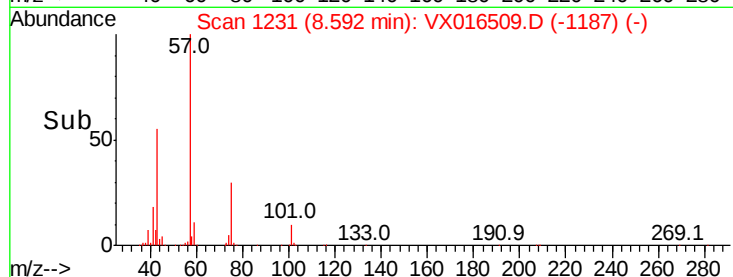
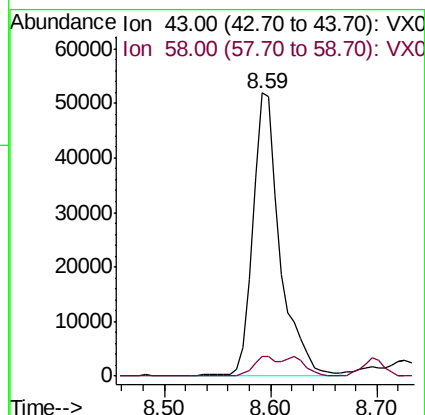
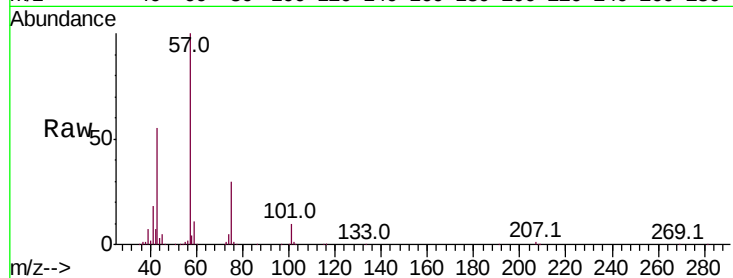
PB129191TB

Tot Ion: 43 Resp: 91909

Ion Ratio Lower Upper

43 100

58 6.6 33.0 49.6#



#54

cis-1,3-Dichloropropene

Concen: 7.470 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

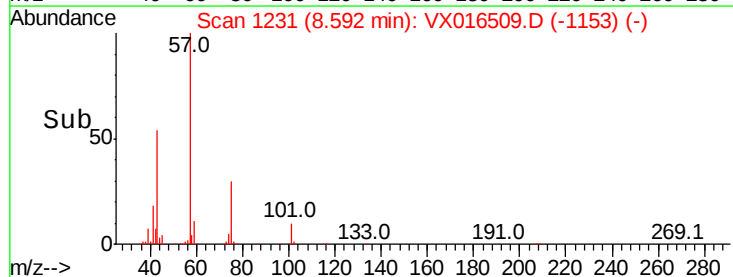
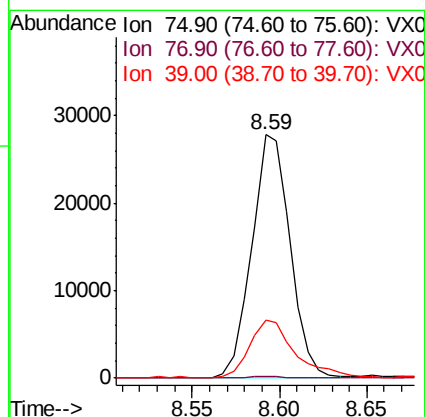
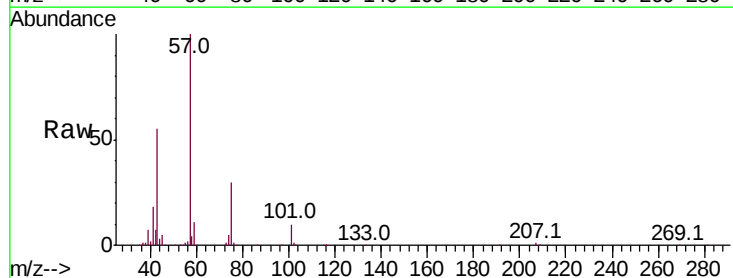
Tgt Ion: 75 Resp: 42361

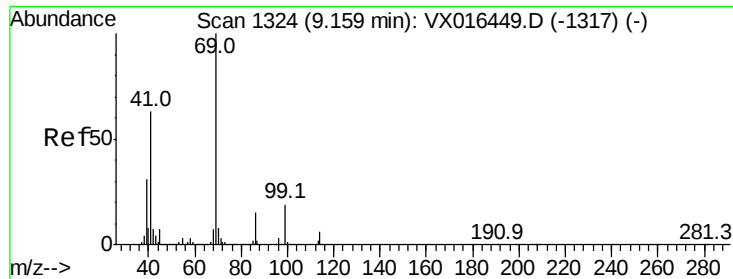
Ion Ratio Lower Upper

75 100

77 0.6 24.6 36.8#

39 23.3 35.3 52.9#





#56

Ethyl methacrylate

Concen: 0.250 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

Instrument :

MSVOA_X

ClientSampleId :

PB129191TB

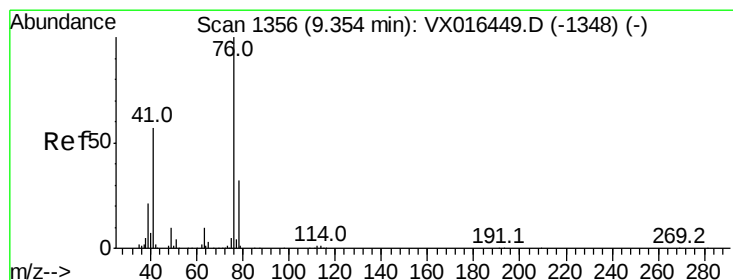
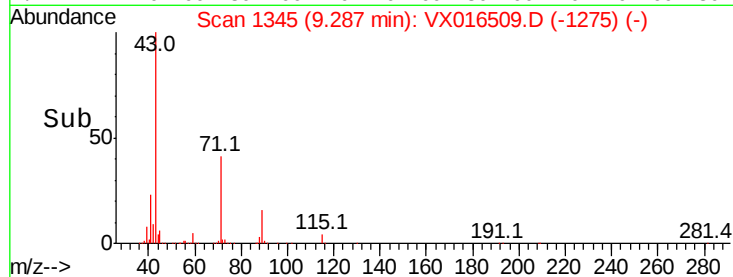
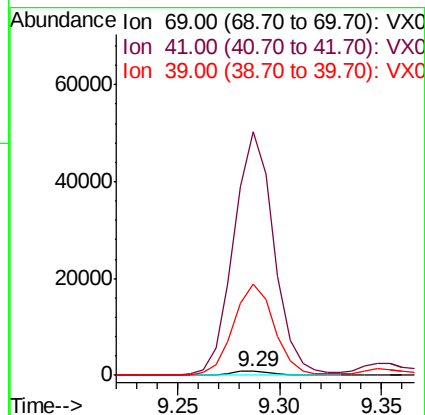
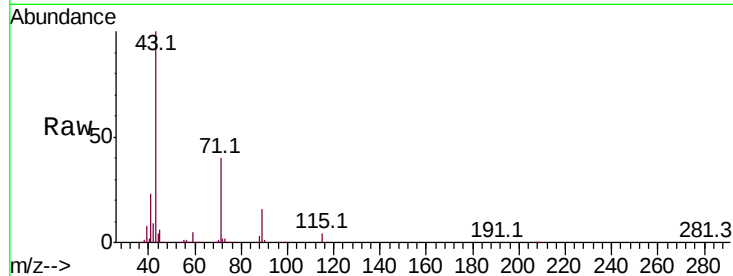
Tot Ion: 69 Resp: 1356

Ion Ratio Lower Upper

69 100

41 5092.3 50.7 76.1#

39 1932.2 25.8 38.6#



#57

1,3-Dichloropropane

Concen: 1.335 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016509.D

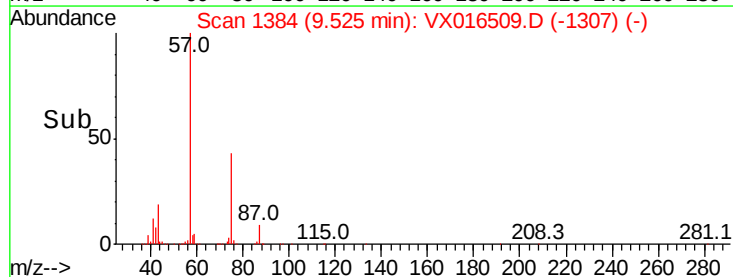
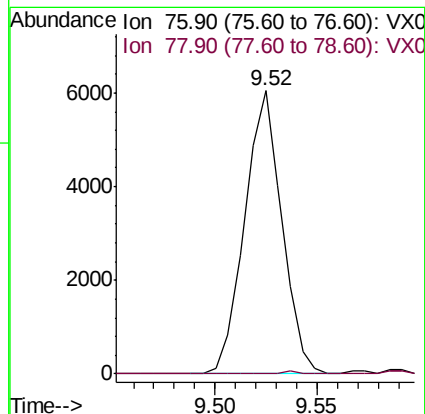
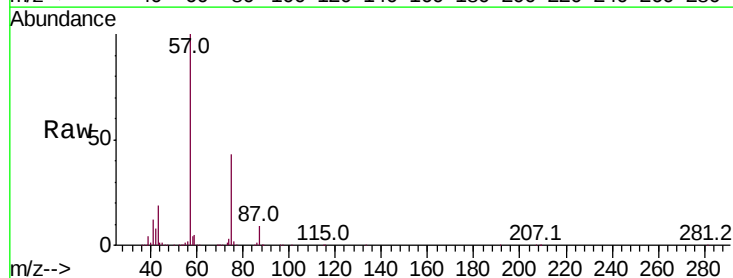
Acq: 29 May 2020 14:32

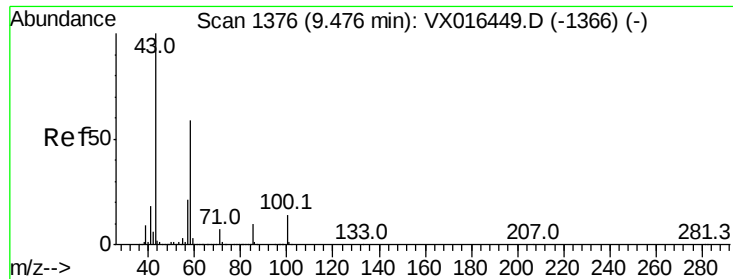
Tgt Ion: 76 Resp: 7646

Ion Ratio Lower Upper

76 100

78 0.3 26.2 39.4#

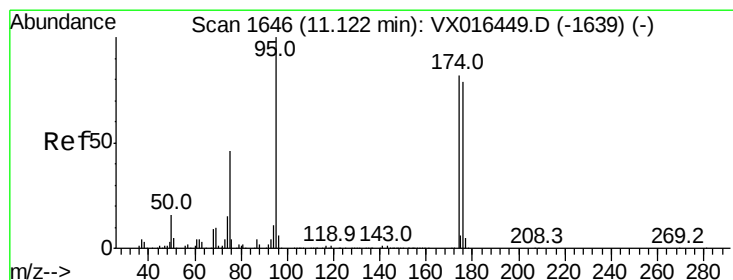
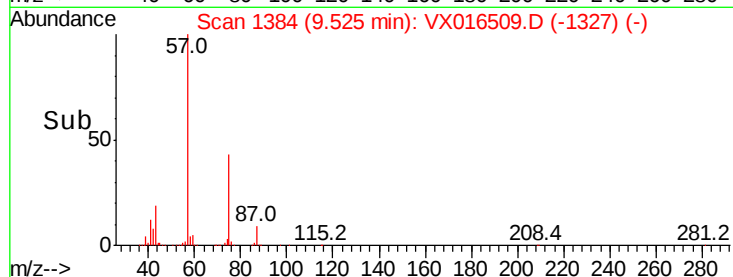
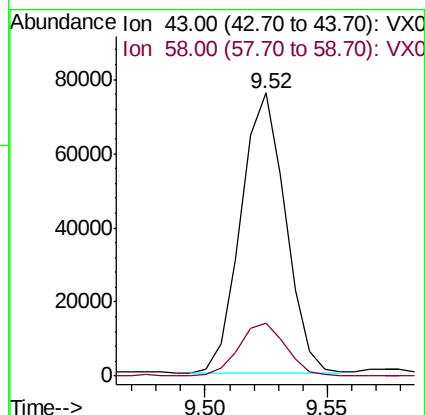
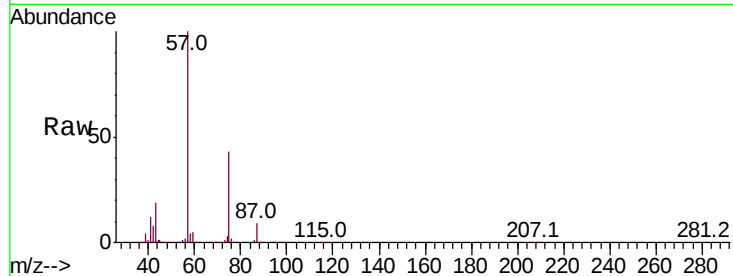




#59
2-Hexanone
Concen: 23.633 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX016509.D
Acq: 29 May 2020 14:32

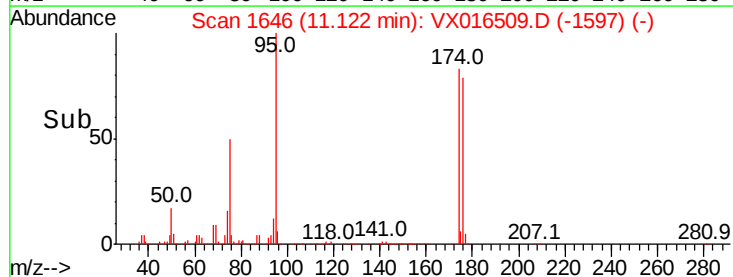
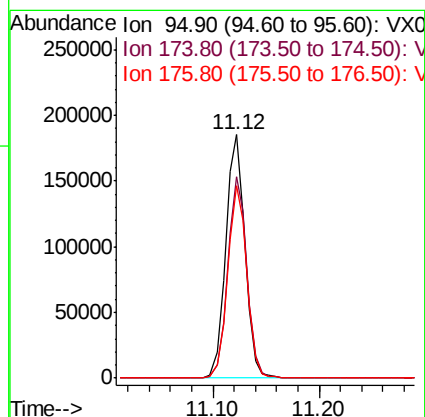
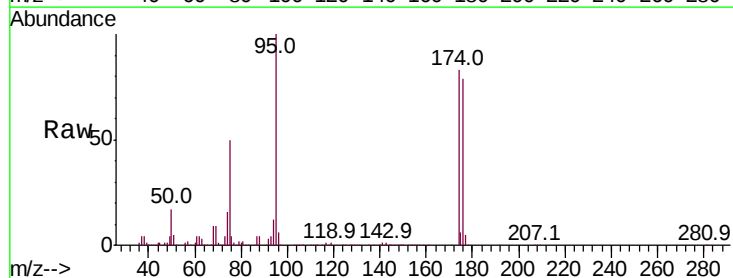
Instrument :
MSVOA_X
ClientSampleId :
PB129191TB

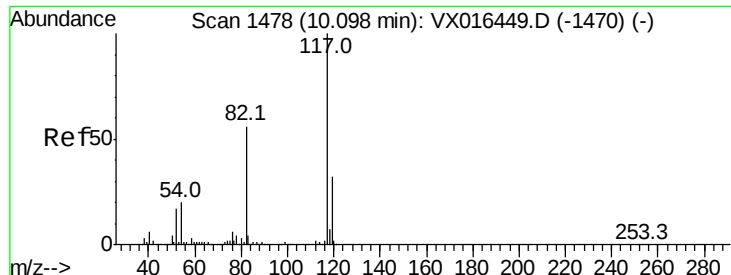
Tot Ion: 43 Resp: 95772
Ion Ratio Lower Upper
43 100
58 20.3 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: 53.427 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016509.D
Acq: 29 May 2020 14:32

Tgt Ion: 95 Resp: 233527
Ion Ratio Lower Upper
95 100
174 82.3 0.0 163.0
176 78.9 0.0 156.8

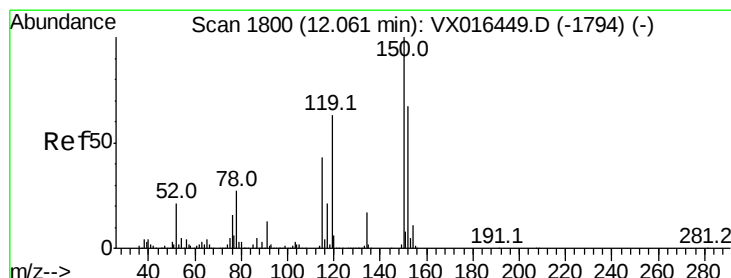
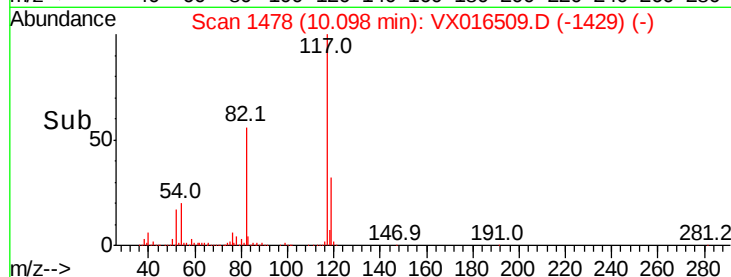
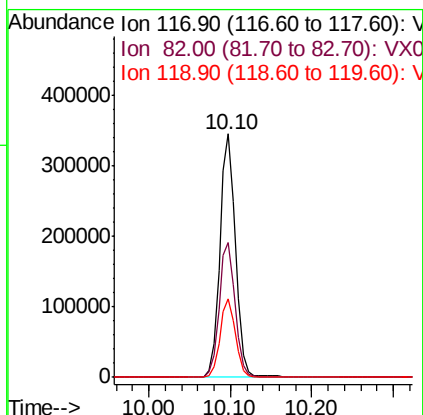
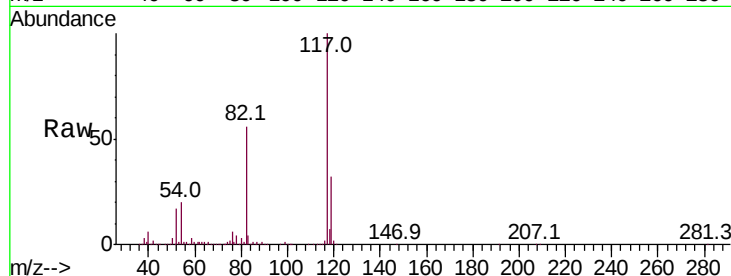




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016509.D
Acq: 29 May 2020 14:32

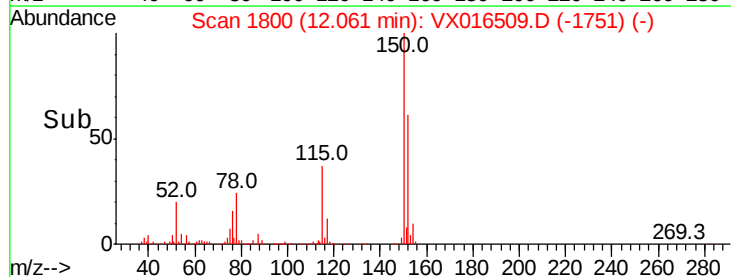
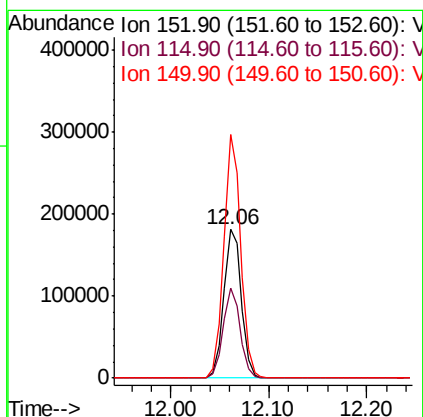
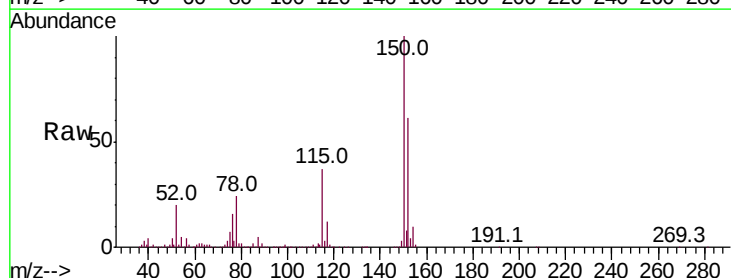
Instrument :
MSVOA_X
ClientSampleId :
PB129191TB

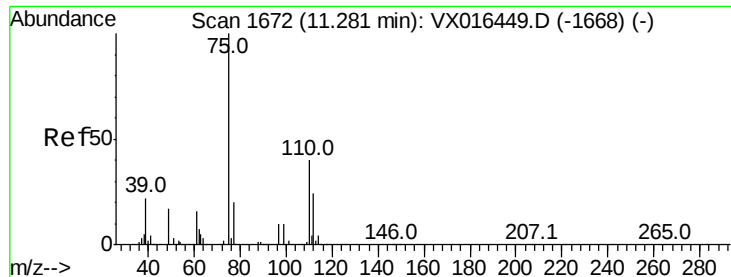
Tot Ion:117 Resp: 462158
Ion Ratio Lower Upper
117 100
82 55.6 45.0 67.6
119 32.2 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016509.D
Acq: 29 May 2020 14:32

Tgt Ion:152 Resp: 224347
Ion Ratio Lower Upper
152 100
115 59.0 39.9 119.6
150 157.7 0.0 341.0





#76

1,2,3-Trichloropropane

Concen: 23.138 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

Instrument :

MSVOA_X

ClientSampleId :

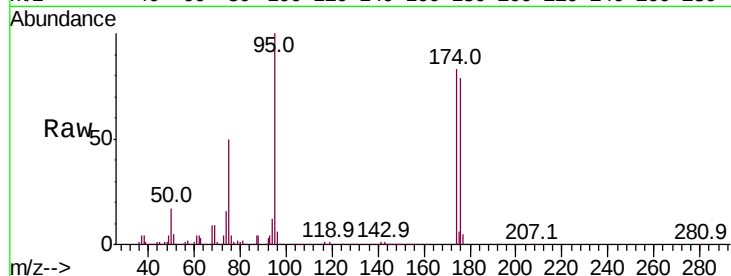
PB129191TB

Tot Ion: 75 Resp: 114099

Ion Ratio Lower Upper

75 100

77 1.3 21.3 63.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

100000

80000

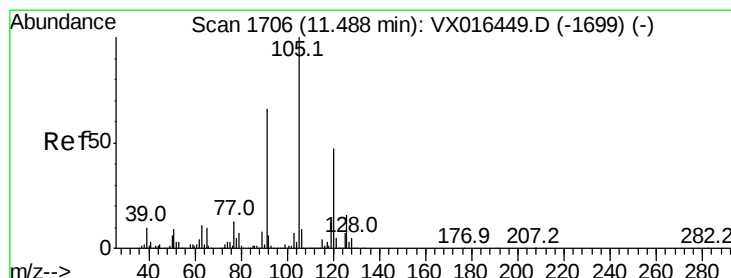
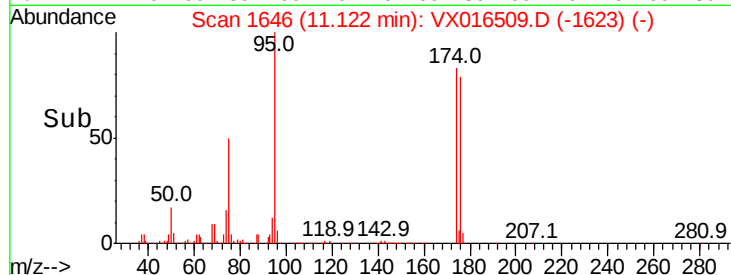
60000

40000

20000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.750 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX016509.D

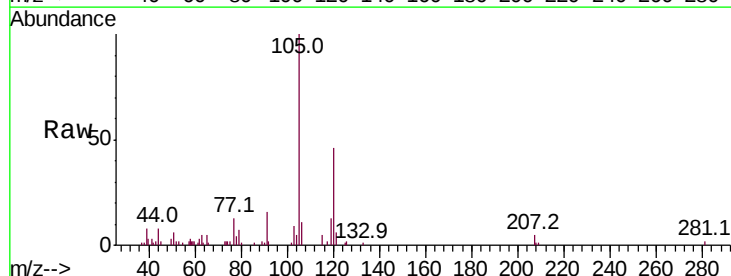
Acq: 29 May 2020 14:32

Tgt Ion:105 Resp: 9736

Ion Ratio Lower Upper

105 100

120 49.0 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.49

8000

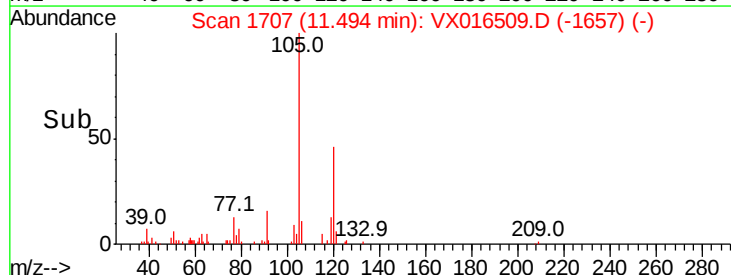
6000

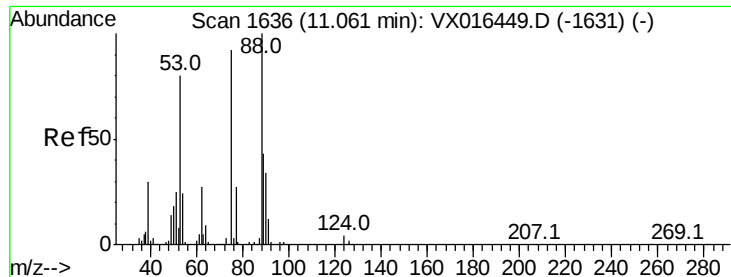
4000

2000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 56.916 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016509.D

Acq: 29 May 2020 14:32

Instrument :

MSVOA_X

ClientSampleId :

PB129191TB

Tot Ion: 75 Resp: 114099

Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

89 0.0 36.6 55.0#

