

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042420\
 Data File : VX015945.D
 Acq On : 24 Apr 2020 20:52
 Operator : JC/SP
 Sample : L2414-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST006RW116-200422

Quant Time: Apr 25 06:54:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 24 13:17:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	133821	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	255655	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	251165	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	121791	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	98432	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	
35) Dibromofluoromethane	5.47	113	75014	53.80	ug/l	0.00
Spiked Amount			Recovery	=	107.60%	
50) Toluene-d8	8.70	98	322839	54.69	ug/l	0.00
Spiked Amount			Recovery	=	109.38%	
62) 4-Bromofluorobenzene	11.12	95	131573	54.95	ug/l	0.00
Spiked Amount			Recovery	=	109.90%	

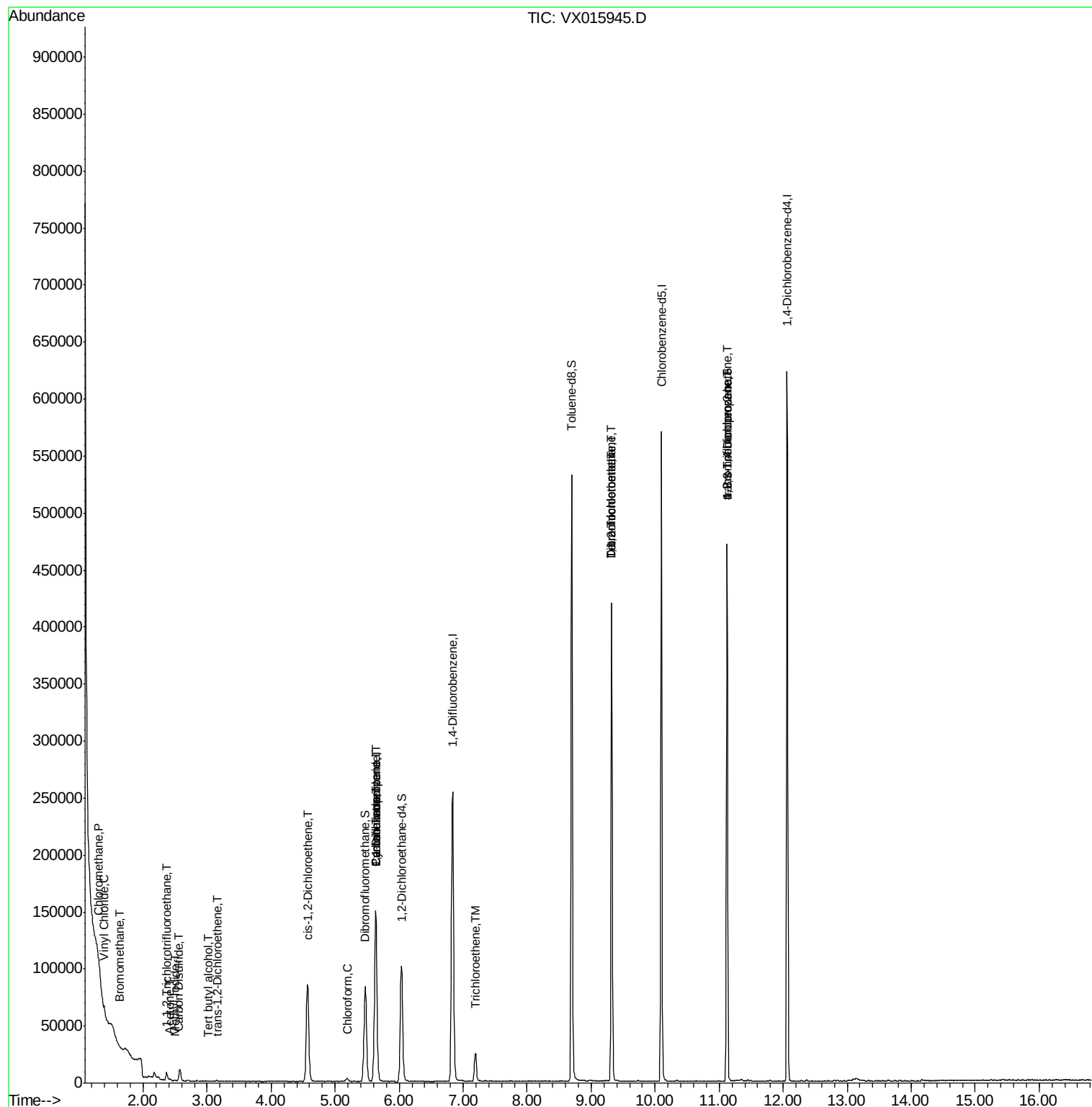
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	391	0.258	ug/l #	78
4) Vinyl Chloride	1.39	62	2781	1.433	ug/l	96
5) Bromomethane	1.64	94	182	0.260	ug/l #	9
9) 1,1,2-Trichlorotrifluoroet	2.37	101	3110	2.151	ug/l	98
10) Methyl Iodide	2.50	142	85	4.859	ug/l #	41
11) Tert butyl alcohol	3.01	59	197	0.485	ug/l #	72
16) Acetone	2.42	43	1406	1.984	ug/l	99
17) Carbon Disulfide	2.55	76	2279	0.247	ug/l	96
21) trans-1,2-Dichloroethene	3.15	96	433	0.256	ug/l	88
27) cis-1,2-Dichloroethene	4.57	96	56138	29.234	ug/l	88
30) Chloroform	5.18	83	3520	1.177	ug/l	99
31) Cyclohexane	5.64	56	3175	1.120	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	11843	4.854	ug/l #	49
38) Carbon Tetrachloride	5.64	117	14385	6.452	ug/l #	17
44) Trichloroethene	7.20	130	9360	4.258	ug/l	94
55) 1,1,2-Trichloroethane	9.32	97	797	0.441	ug/l #	1
60) Dibromochloromethane	9.32	129	80374	44.738	ug/l #	11
64) Tetrachloroethene	9.32	164	76710	30.693	ug/l	96
76) 1,2,3-Trichloropropane	11.12	75	66074	25.291	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	66074	56.972	ug/l #	14

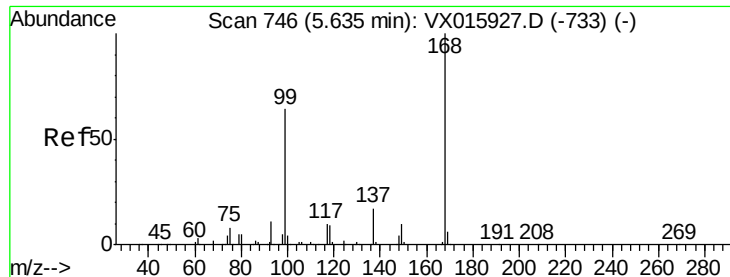
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Apr 24 13:17:59 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX015945.D

Acq: 24 Apr 2020 20:52

Instrument :

MSVOA_X

ClientSampleId :

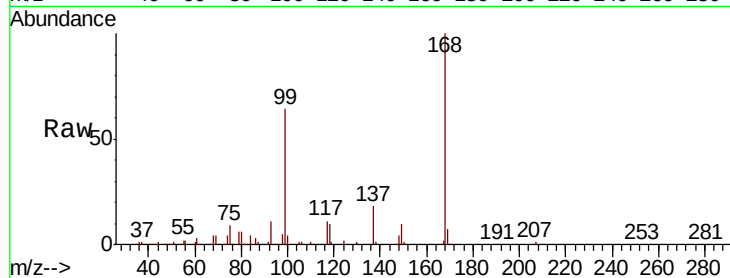
ST006RW116-200422

Tot Ion:168 Resp: 133821

Ion Ratio Lower Upper

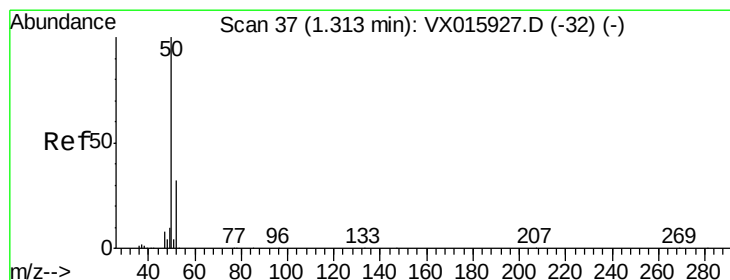
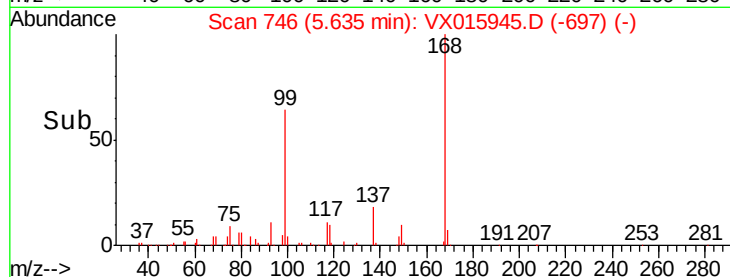
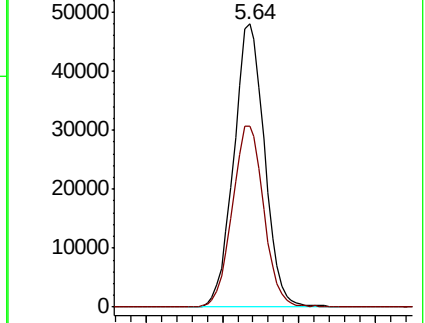
168 100

99 64.1 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.258 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX015945.D

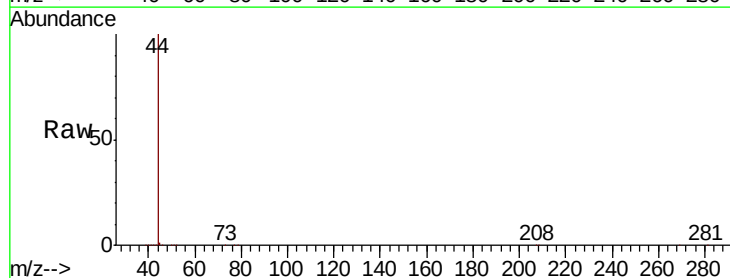
Acq: 24 Apr 2020 20:52

Tgt Ion: 50 Resp: 391

Ion Ratio Lower Upper

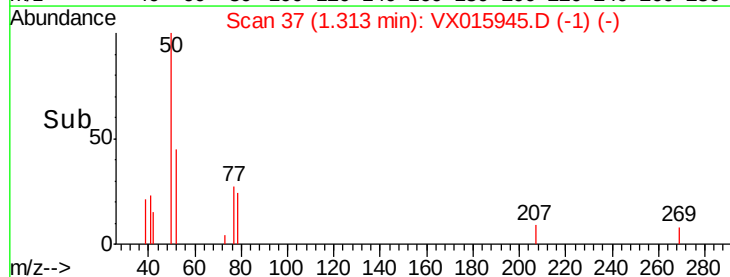
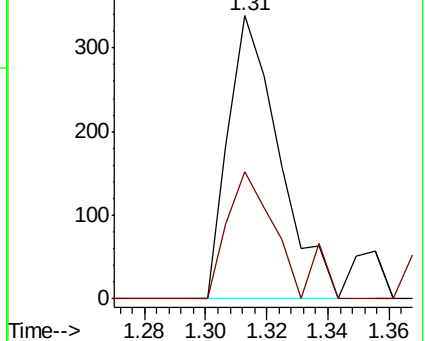
50 100

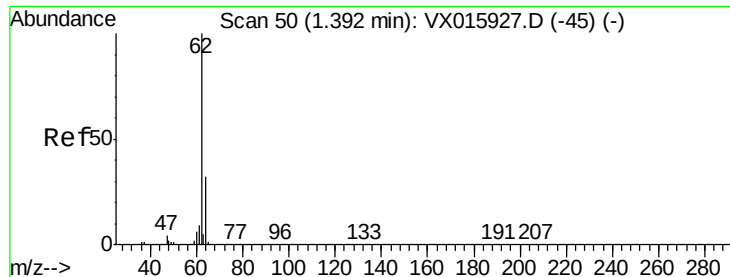
52 45.0 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 1.433 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX015945.D

Acq: 24 Apr 2020 20:52

Instrument :

MSVOA_X

ClientSampleId :

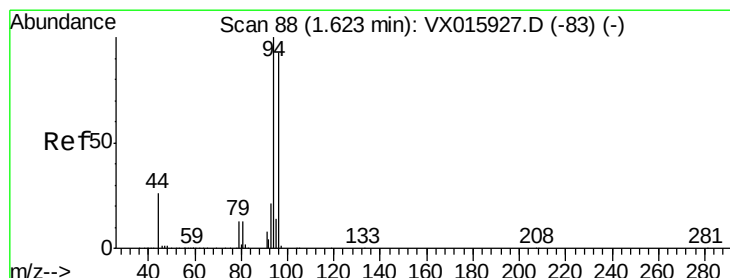
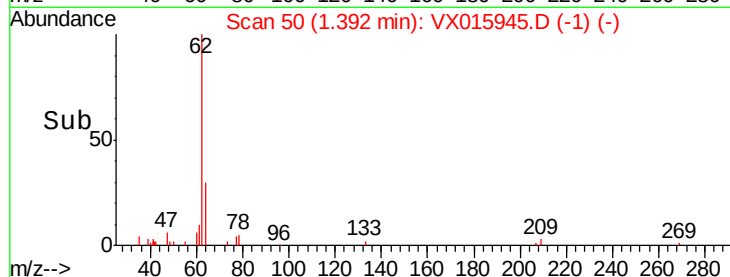
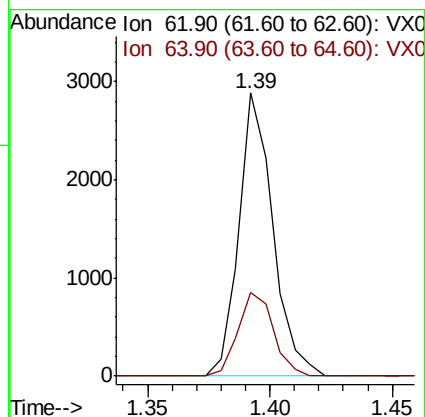
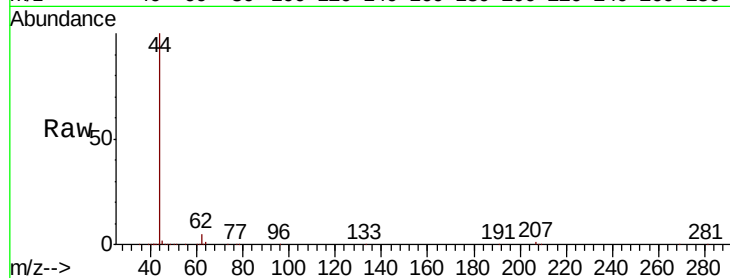
ST006RW116-200422

Tot Ion: 62 Resp: 2781

Ion Ratio Lower Upper

62 100

64 29.5 25.5 38.3



#5

Bromomethane

Concen: 0.260 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX015945.D

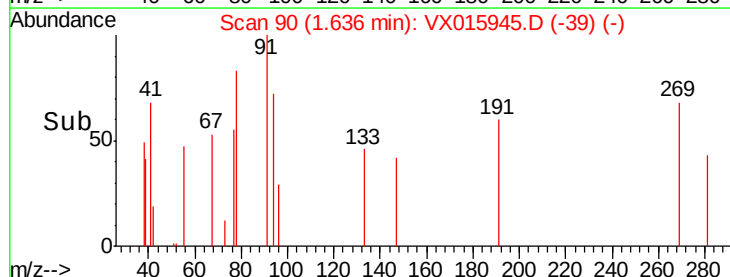
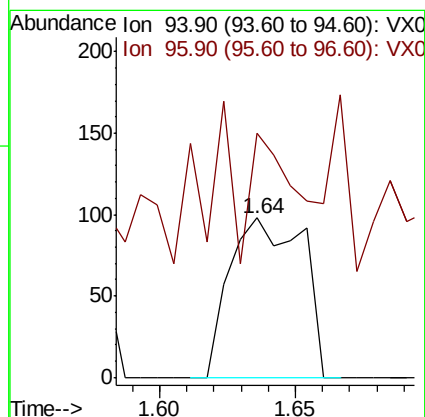
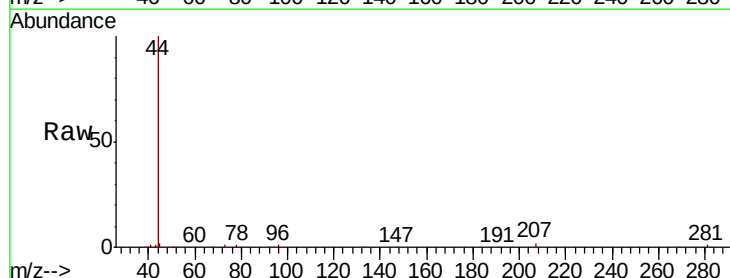
Acq: 24 Apr 2020 20:52

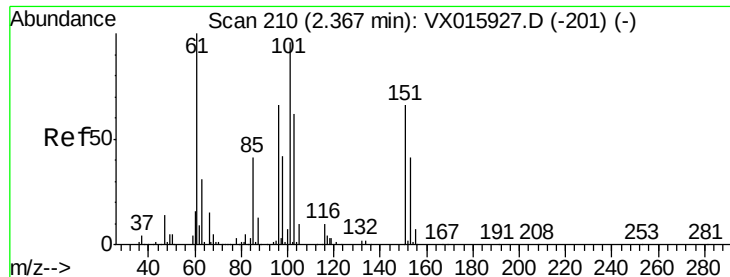
Tgt Ion: 94 Resp: 182

Ion Ratio Lower Upper

94 100

96 6.1 74.8 112.2#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.151 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX015945.D

Acq: 24 Apr 2020 20:52

Instrument :

MSVOA_X

ClientSampleId :

ST006RW116-200422

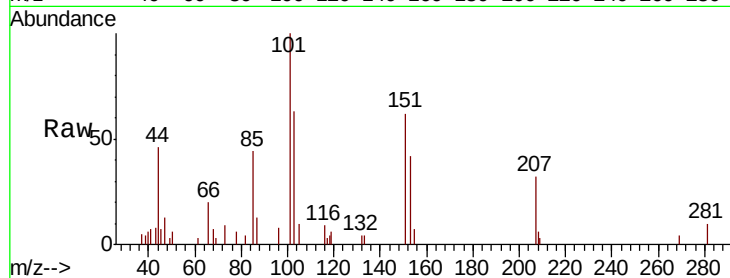
Tot Ion:101 Resp: 3110

Ion Ratio Lower Upper

101 100

85 45.4 34.9 52.3

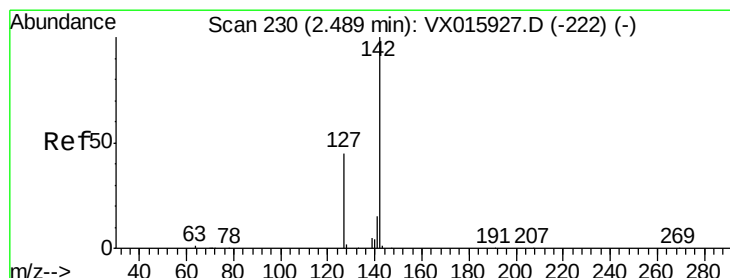
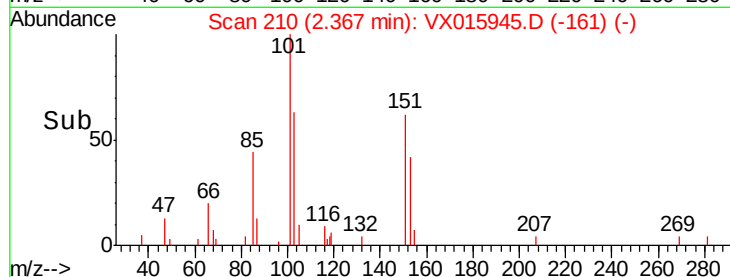
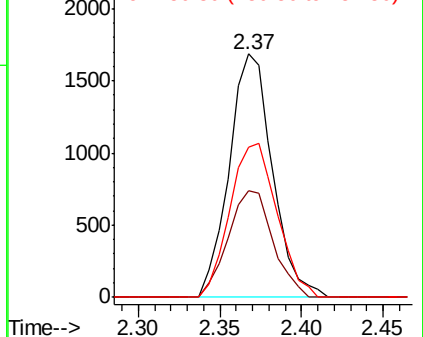
151 68.9 55.8 83.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.859 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX015945.D

Acq: 24 Apr 2020 20:52

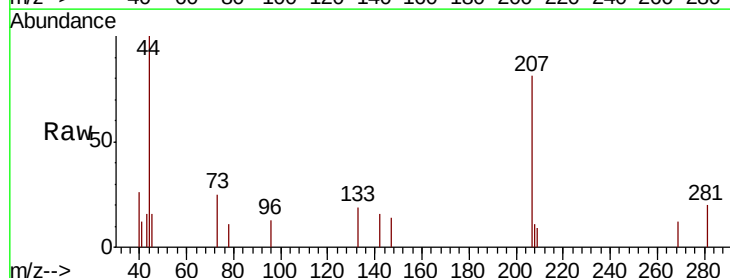
Tgt Ion:142 Resp: 85

Ion Ratio Lower Upper

142 100

127 0.0 34.4 51.6#

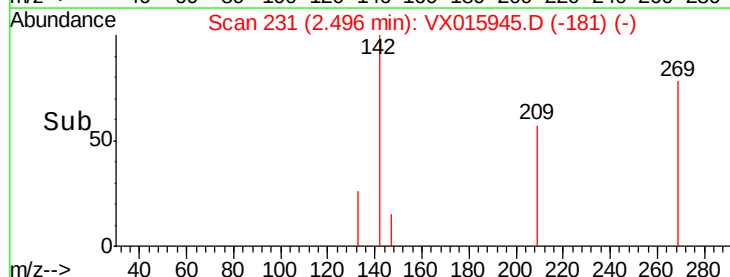
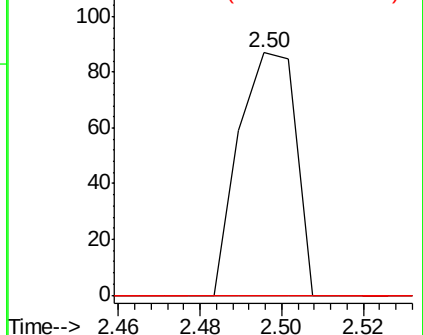
141 0.0 11.5 17.3#

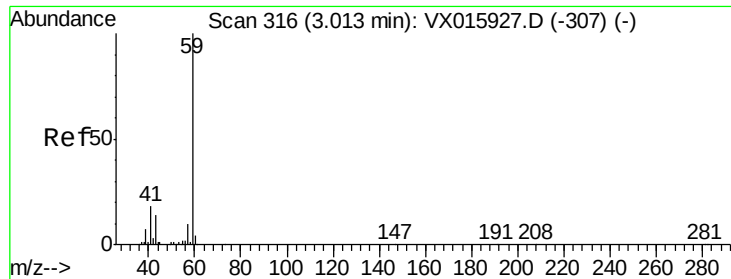


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



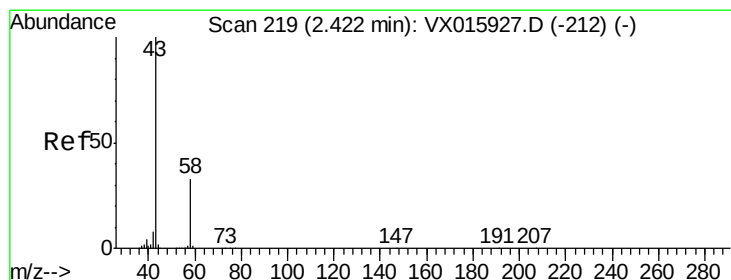
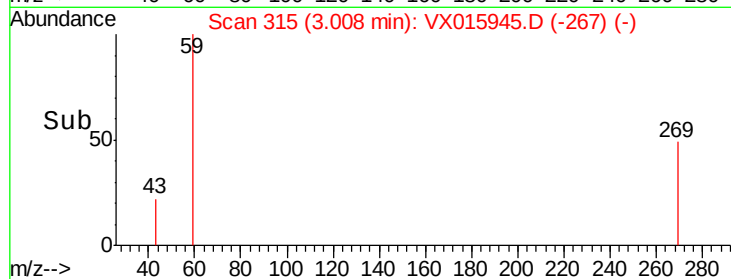
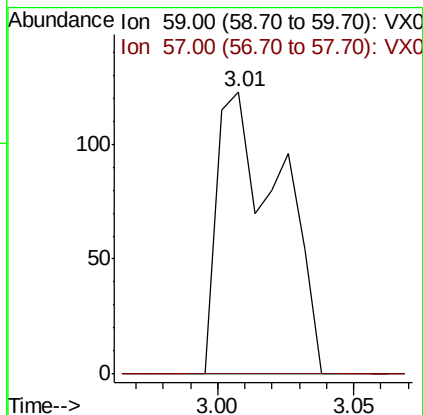
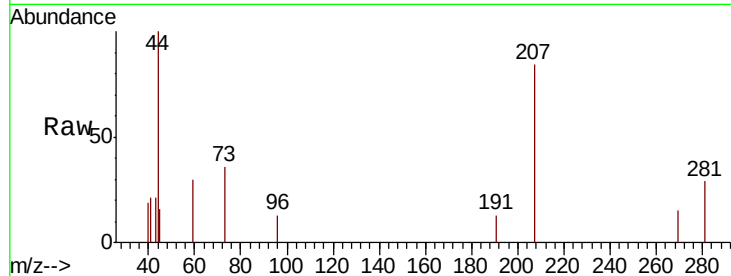


#11

Tert butyl alcohol
 Concen: 0.485 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX015945.D
 Acq: 24 Apr 2020 20:52

Instrument :
 MSVOA_X
 ClientSampleId :
 ST006RW116-200422

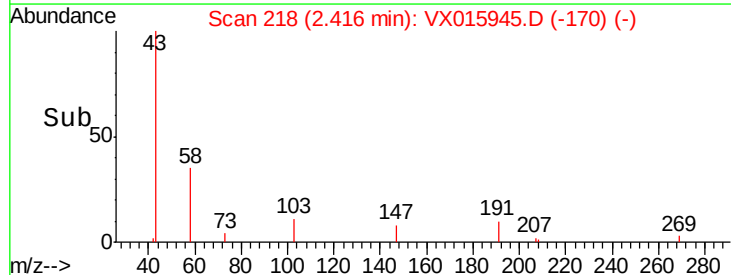
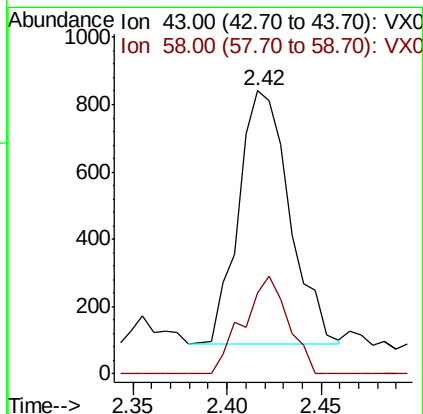
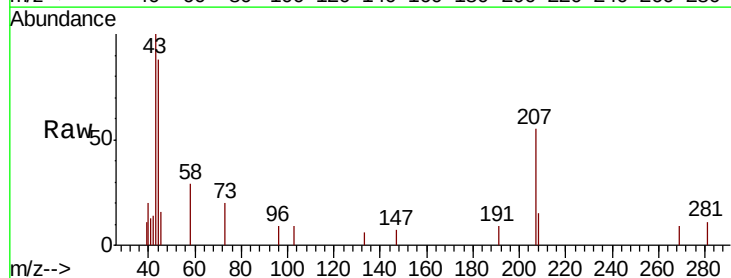
Tot Ion: 59 Resp: 197
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

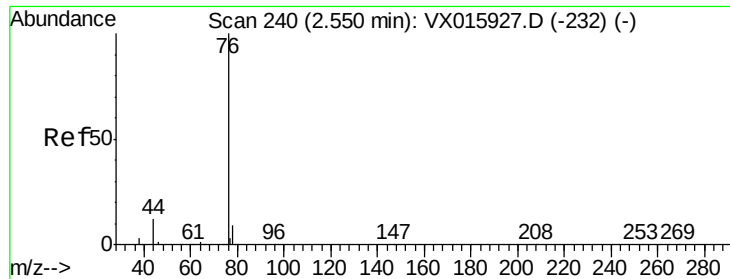


#16

Acetone
 Concen: 1.984 ug/l
 RT: 2.42 min Scan# 218
 Delta R.T. -0.01 min
 Lab File: VX015945.D
 Acq: 24 Apr 2020 20:52

Tgt Ion: 43 Resp: 1406
 Ion Ratio Lower Upper
 43 100
 58 32.4 26.4 39.6

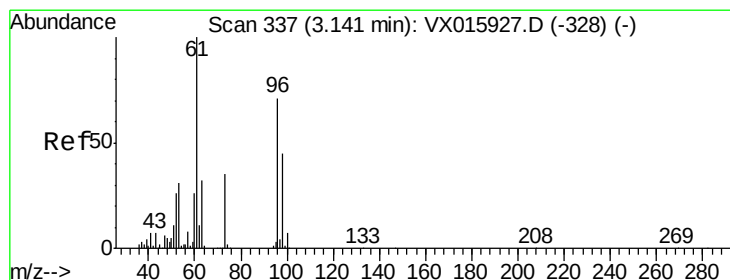
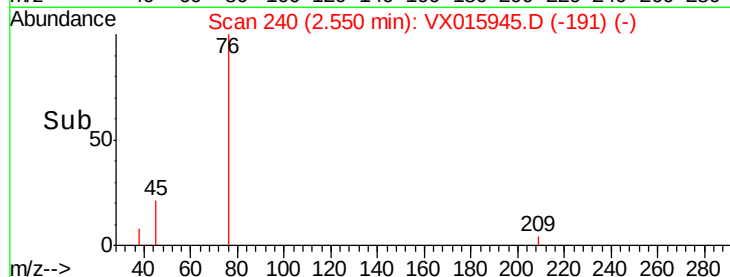
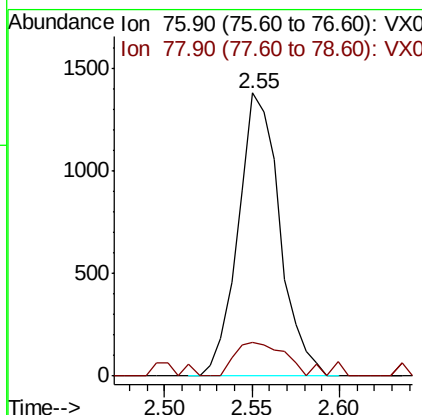
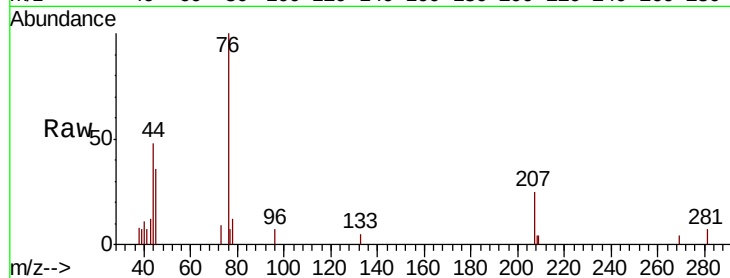




#17
Carbon Disulfide
Concen: 0.247 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX015945.D
Acq: 24 Apr 2020 20:52

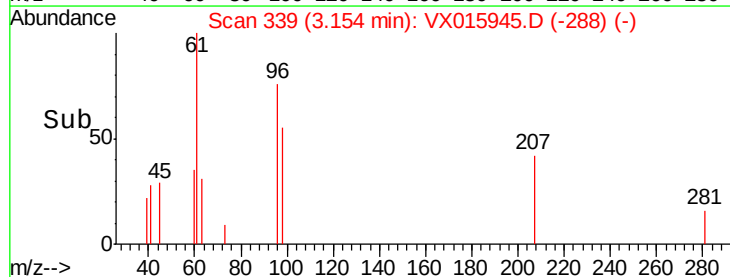
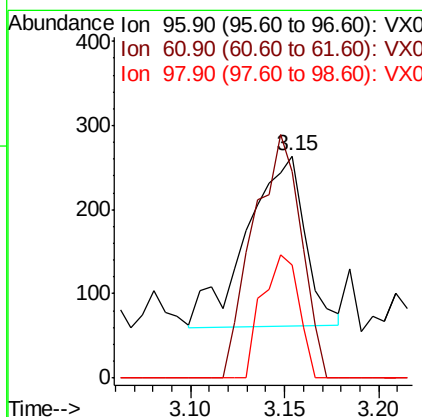
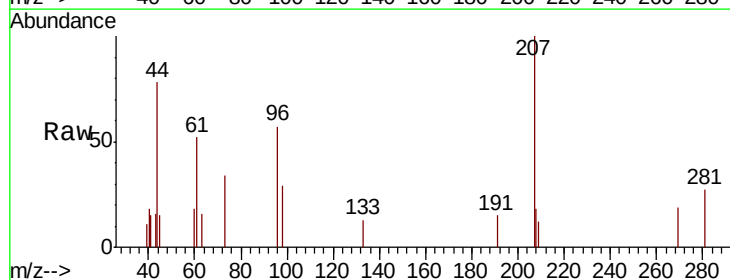
Instrument :
MSVOA_X
ClientSampleId :
ST006RW116-200422

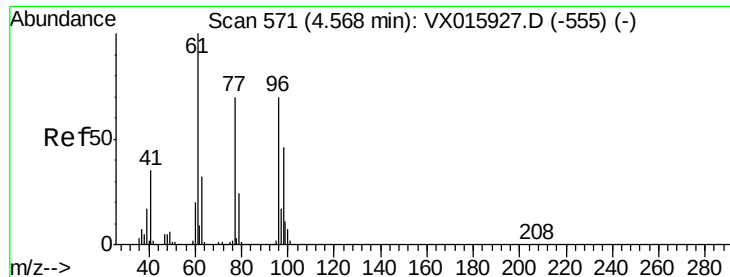
Tot Ion: 76 Resp: 2279
Ion Ratio Lower Upper
76 100
78 7.9 7.4 11.2



#21
trans-1,2-Dichloroethene
Concen: 0.256 ug/l
RT: 3.15 min Scan# 339
Delta R.T. 0.01 min
Lab File: VX015945.D
Acq: 24 Apr 2020 20:52

Tgt Ion: 96 Resp: 433
Ion Ratio Lower Upper
96 100
61 121.9 112.7 169.1
98 66.7 51.0 76.4



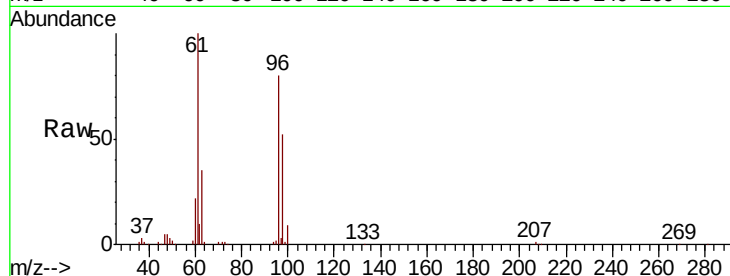


#27

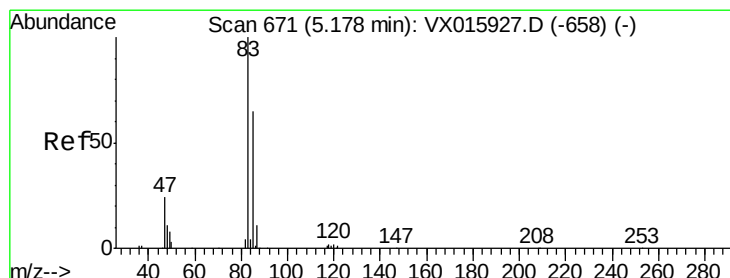
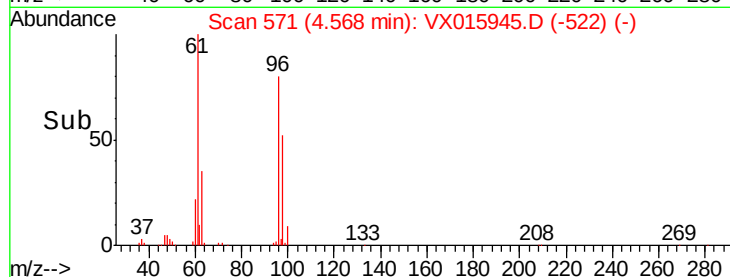
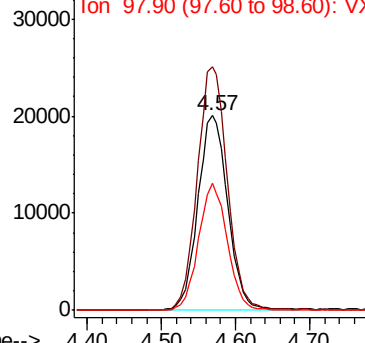
cis-1,2-Dichloroethene
Concen: 29.234 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.00 min
Lab File: VX015945.D
Acq: 24 Apr 2020 20:52

Instrument :
MSVOA_X
ClientSampleId :
ST006RW116-200422

Tot Ion: 96 Resp: 56138
Ion Ratio Lower Upper
96 100
61 126.5 0.0 293.4
98 63.5 0.0 129.0



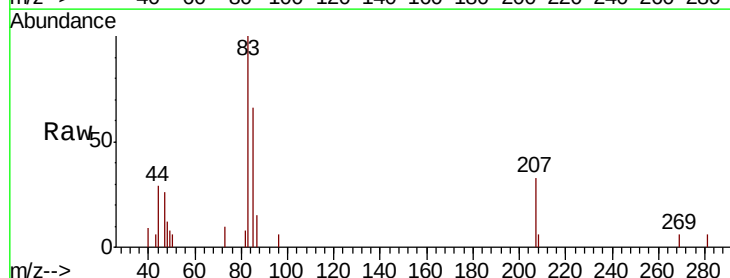
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



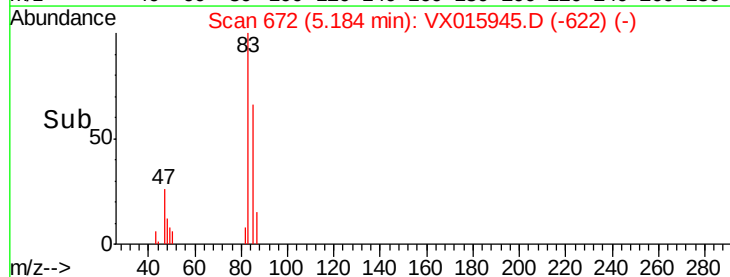
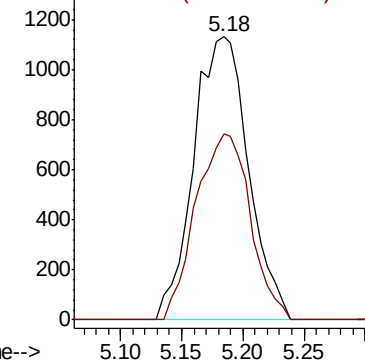
#30

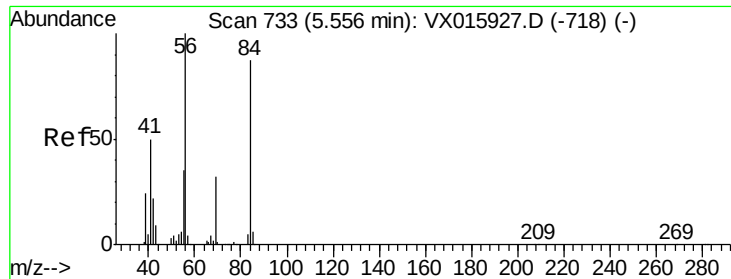
Chloroform
Concen: 1.177 ug/l
RT: 5.18 min Scan# 672
Delta R.T. 0.01 min
Lab File: VX015945.D
Acq: 24 Apr 2020 20:52

Tgt Ion: 83 Resp: 3520
Ion Ratio Lower Upper
83 100
85 65.7 51.7 77.5



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0

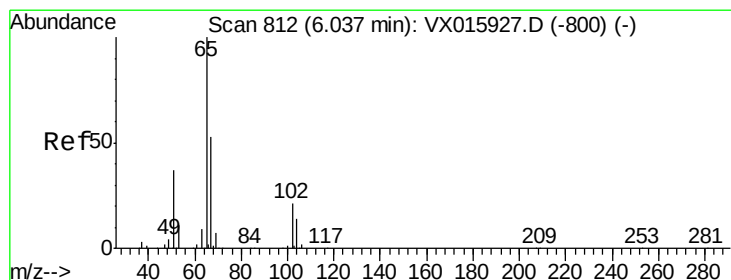
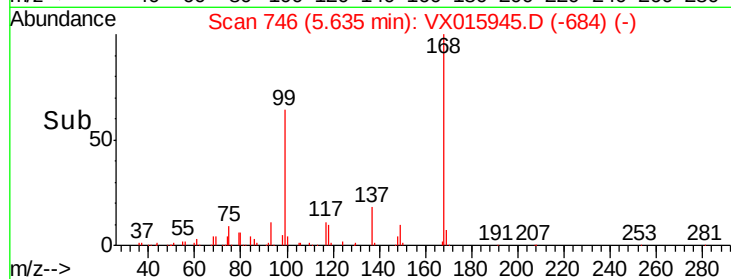
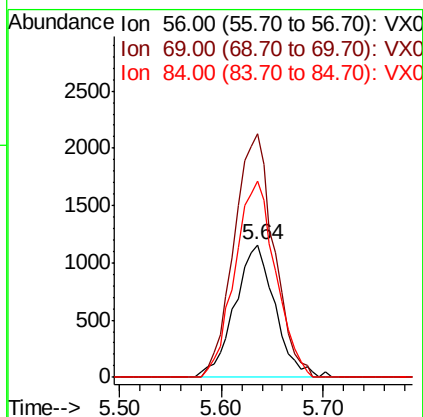
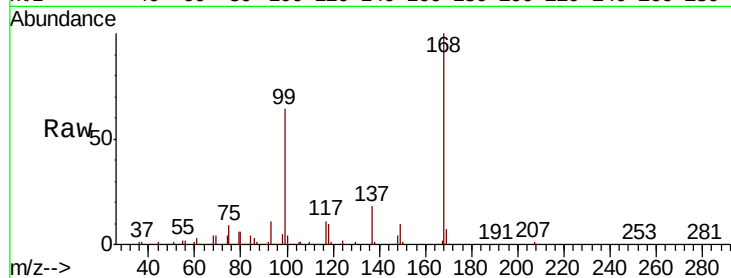




#31
Cyclohexane
Concen: 1.120 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.08 min
Lab File: VX015945.D
Acq: 24 Apr 2020 20:52

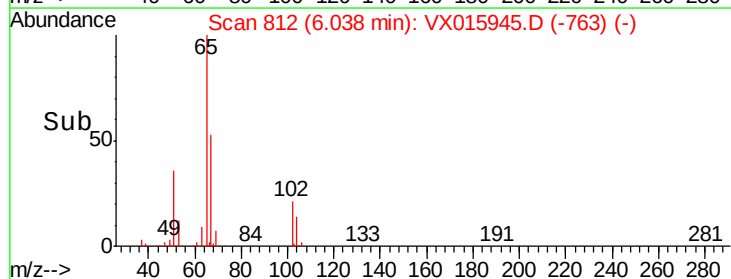
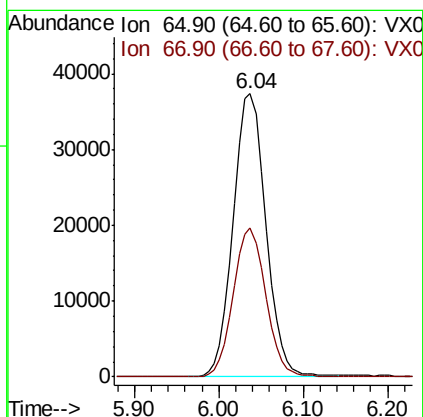
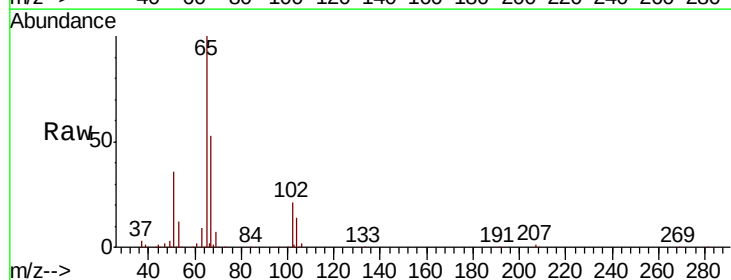
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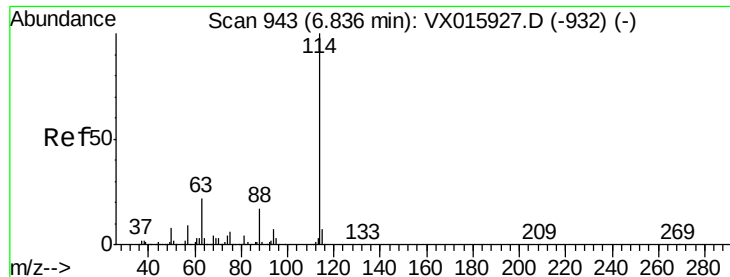
Tot Ion: 56 Resp: 3175
Ion Ratio Lower Upper
56 100
69 183.9 25.4 38.0#
84 148.1 69.5 104.3#



#33
1,2-Dichloroethane-d4
Concen: 52.092 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.00 min
Lab File: VX015945.D
Acq: 24 Apr 2020 20:52

Tgt Ion: 65 Resp: 98432
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.6

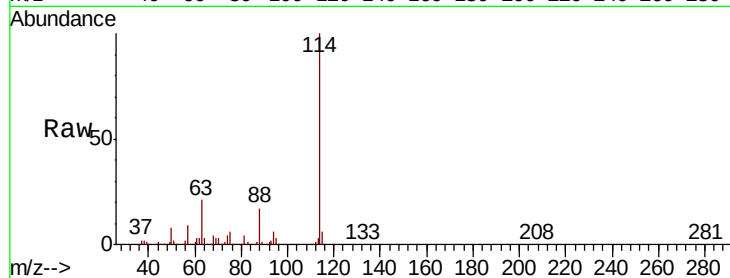




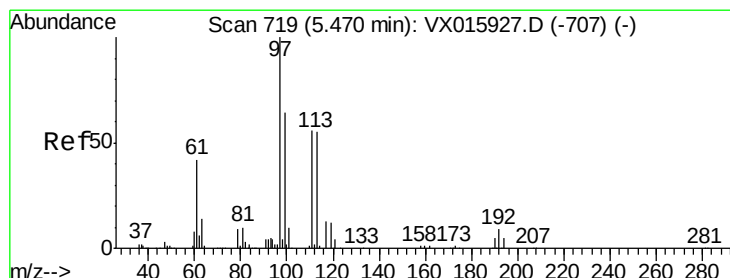
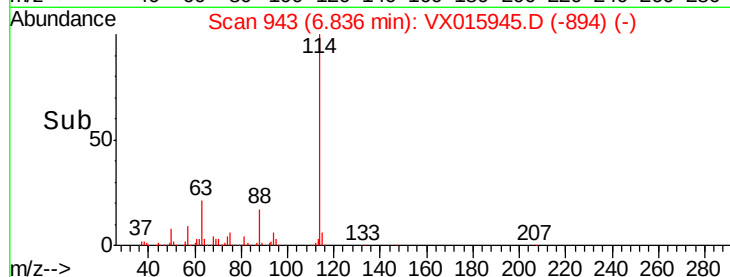
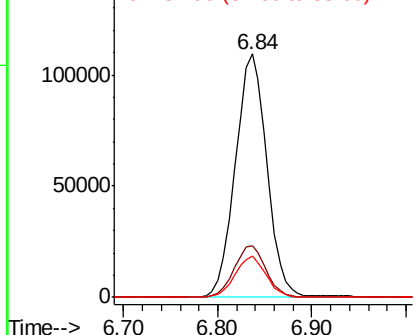
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.84 min Scan# 943
Delta R.T. 0.00 min
Lab File: VX015945.D
Acq: 24 Apr 2020 20:52

Instrument :
MSVOA_X
ClientSampleId :
ST006RW116-200422

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	44.4
88	16.8	0.0	34.2

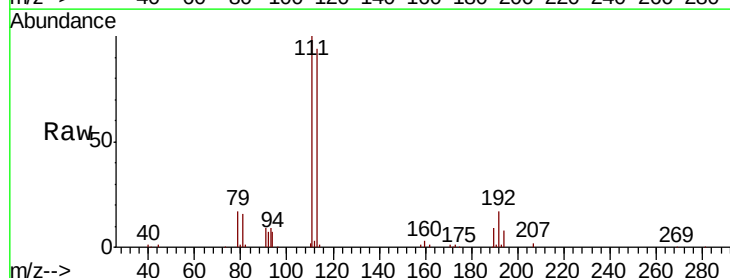


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

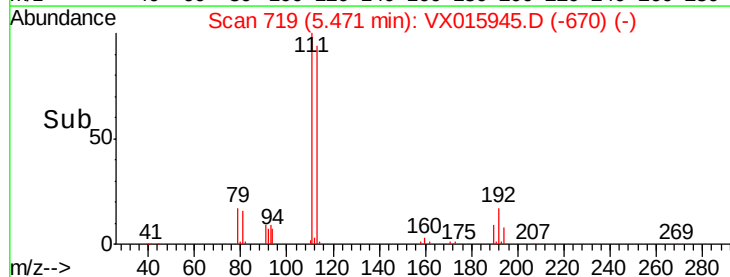
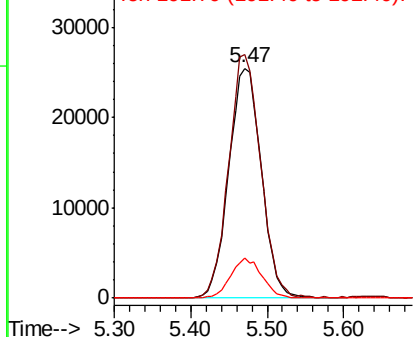


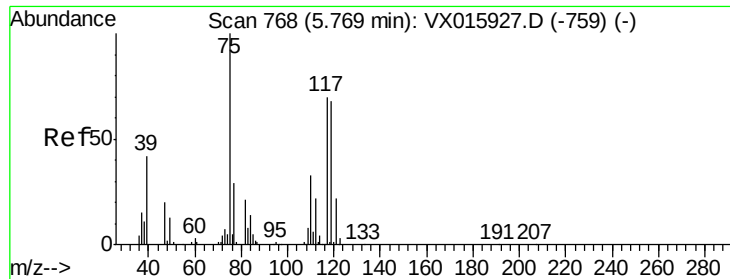
#35
Dibromofluoromethane
Concen: 53.800 ug/l
RT: 5.47 min Scan# 719
Delta R.T. 0.00 min
Lab File: VX015945.D
Acq: 24 Apr 2020 20:52

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.2	121.8
192	16.8	13.6	20.4



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: 4.854 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX015945.D

Acq: 24 Apr 2020 20:52

Instrument :

MSVOA_X

ClientSampleId :

ST006RW116-200422

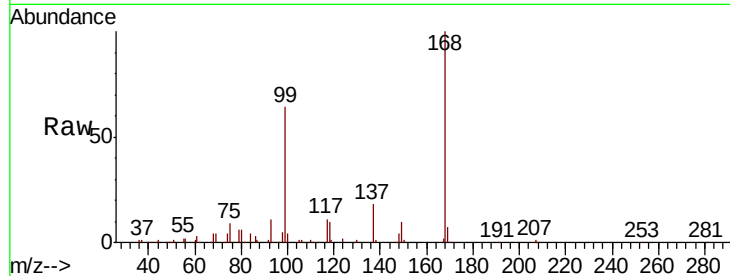
Tot Ion: 75 Resp: 11843

Ion Ratio Lower Upper

75 100

110 7.8 17.1 51.3#

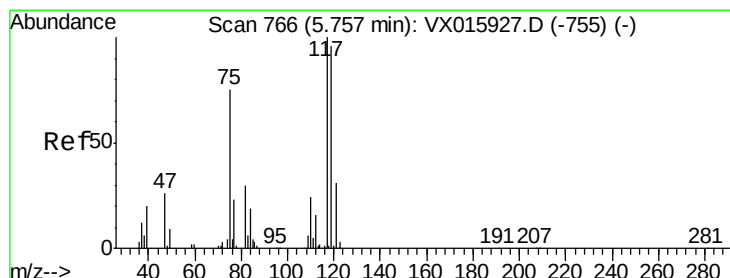
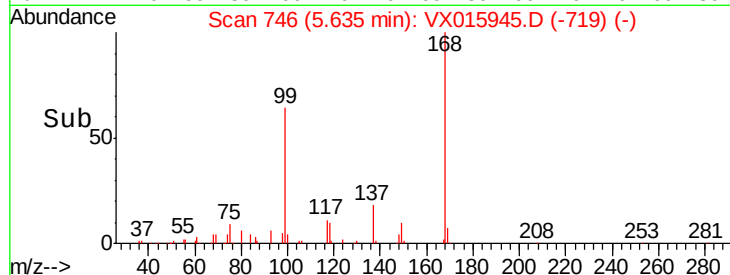
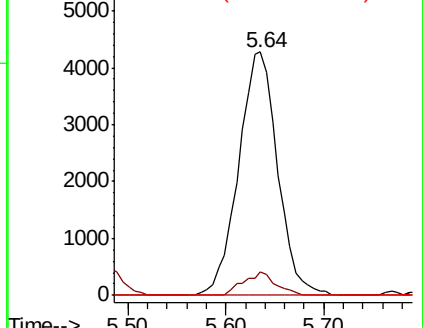
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX015945.D (-719) (-)

Ion 109.90 (109.60 to 110.60): VX015945.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX015945.D (-719) (-)



#38

Carbon Tetrachloride

Concen: 6.452 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX015945.D

Acq: 24 Apr 2020 20:52

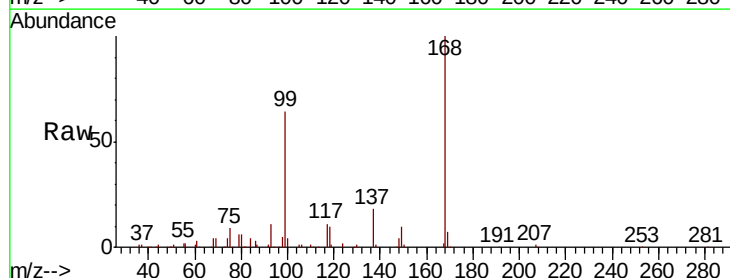
Tgt Ion: 117 Resp: 14385

Ion Ratio Lower Upper

117 100

119 6.3 77.0 115.6#

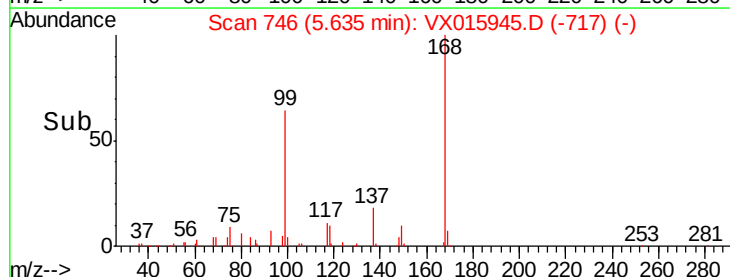
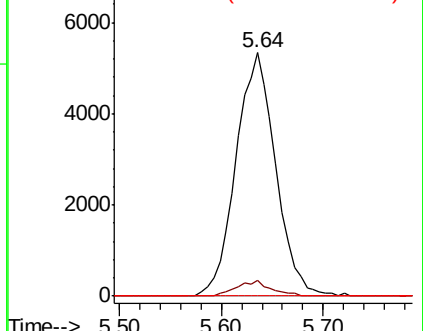
121 0.0 25.0 37.4#

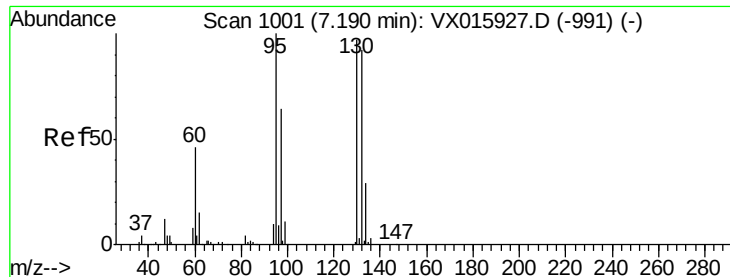


Abundance Ion 116.80 (116.50 to 117.50): VX015945.D (-717) (-)

Ion 118.80 (118.50 to 119.50): VX015945.D (-717) (-)

Ion 120.80 (120.50 to 121.50): VX015945.D (-717) (-)





#44

Trichloroethene

Concen: 4.258 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX015945.D

Acq: 24 Apr 2020 20:52

Instrument :

MSVOA_X

ClientSampleId :

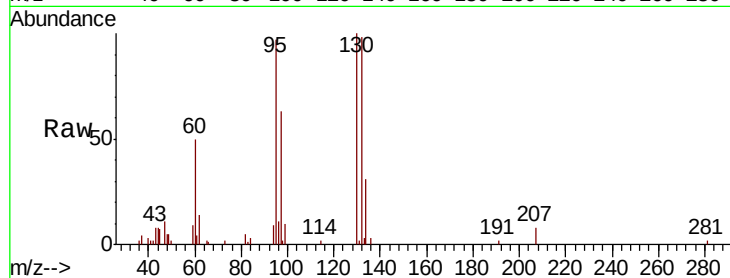
ST006RW116-200422

Tot Ion:130 Resp: 9360

Ion Ratio Lower Upper

130 100

95 96.9 0.0 205.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

4000

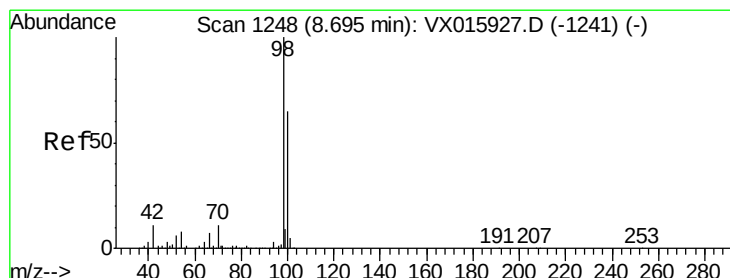
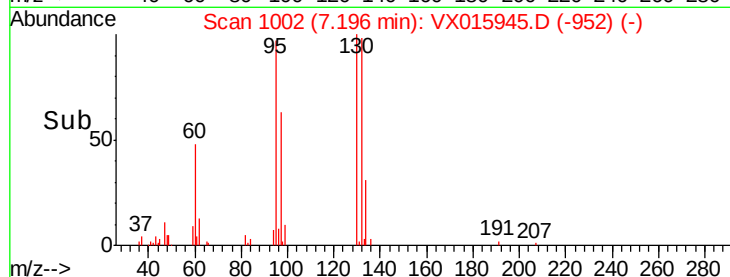
3000

2000

1000

0

Time-->



#50

Toluene-d8

Concen: 54.690 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX015945.D

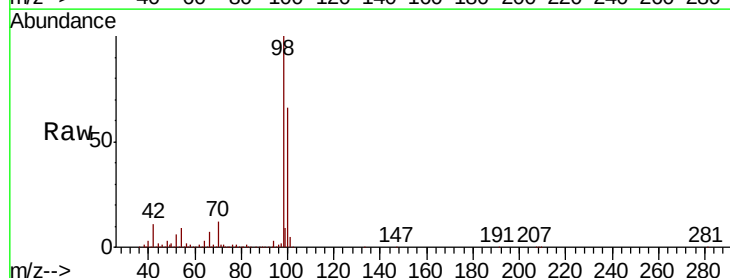
Acq: 24 Apr 2020 20:52

Tgt Ion: 98 Resp: 322839

Ion Ratio Lower Upper

98 100

100 66.3 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.70

200000

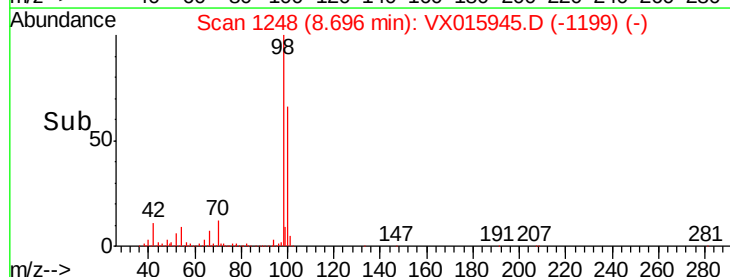
150000

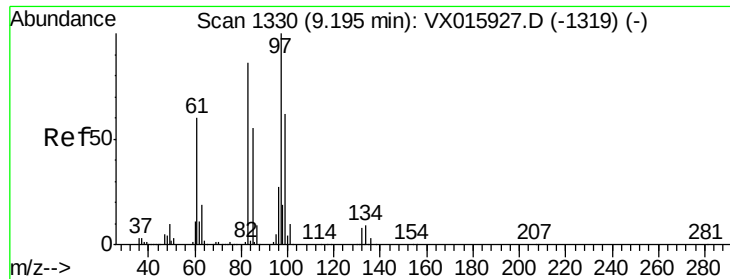
100000

50000

0

Time-->

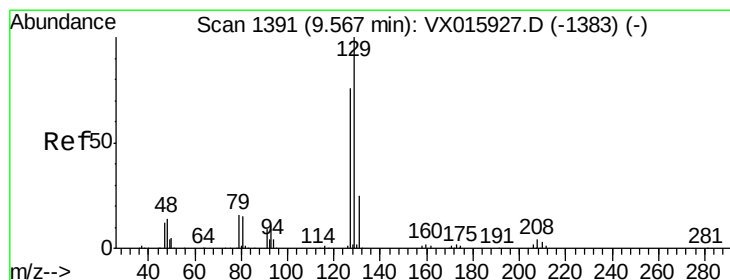
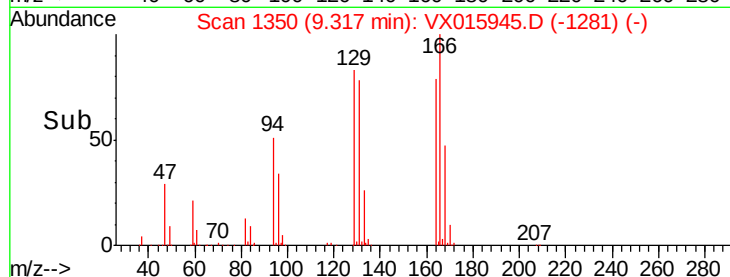
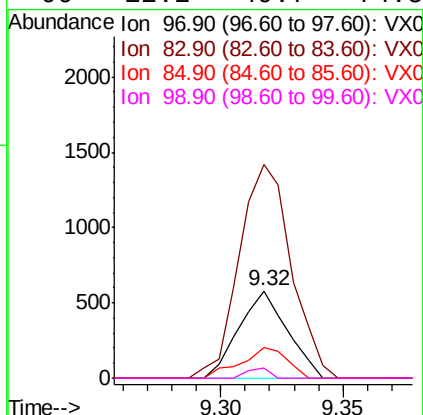
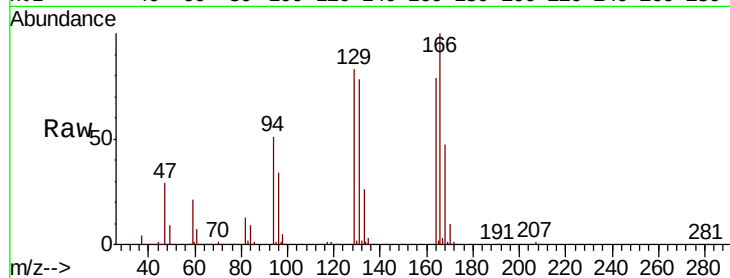




#55
 1,1,2-Trichloroethane
 Concen: 0.441 ug/l
 RT: 9.32 min Scan# 1350
 Delta R.T. 0.12 min
 Lab File: VX015945.D
 Acq: 24 Apr 2020 20:52

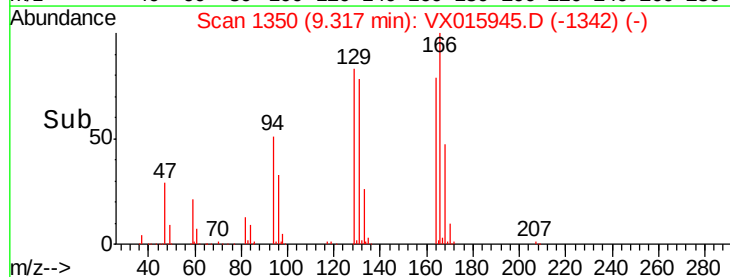
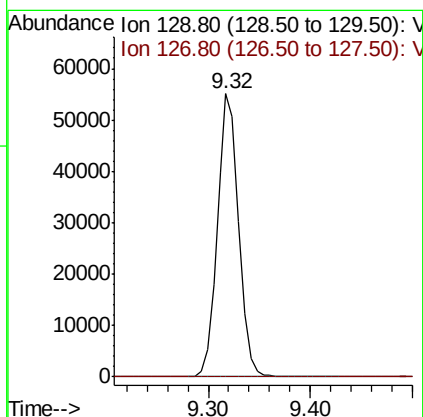
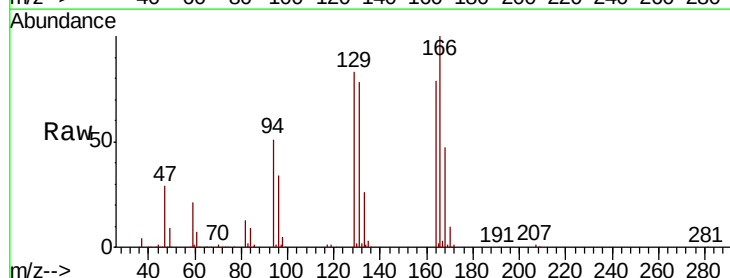
Instrument :
 MSVOA_X
 ClientSampleId :
 ST006RW116-200422

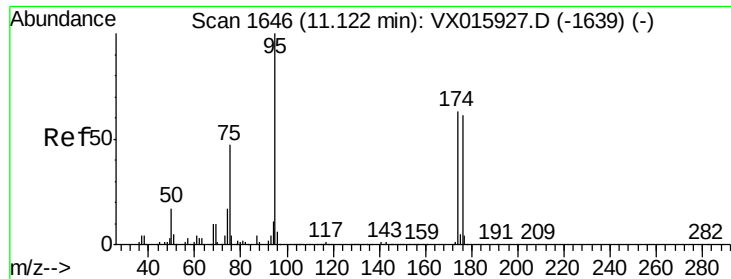
Tot Ion:	97	Resp:	797
Ion	Ratio	Lower	Upper
97	100		
83	243.6	68.6	103.0#
85	34.9	44.0	66.0#
99	12.2	49.7	74.5#



#60
 Dibromochloromethane
 Concen: 44.738 ug/l
 RT: 9.32 min Scan# 1350
 Delta R.T. -0.25 min
 Lab File: VX015945.D
 Acq: 24 Apr 2020 20:52

Tgt Ion:	129	Resp:	80374
Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.8	116.3#





#62

4-Bromofluorobenzene

Concen: 54.952 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX015945.D

Acq: 24 Apr 2020 20:52

Instrument :

MSVOA_X

ClientSampleId :

ST006RW116-200422

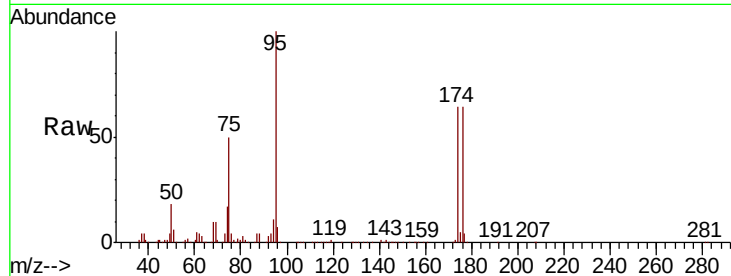
Tot Ion: 95 Resp: 131573

Ion Ratio Lower Upper

95 100

174 66.1 0.0 133.6

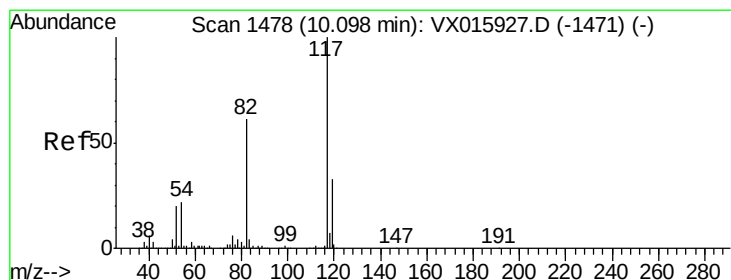
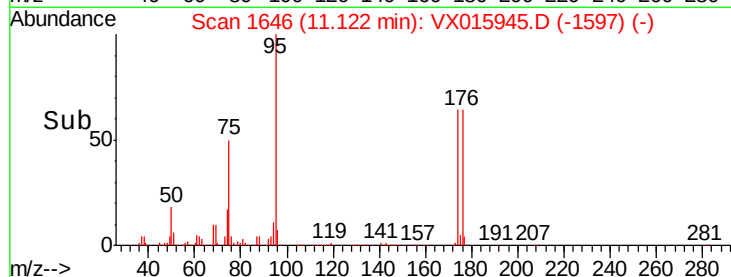
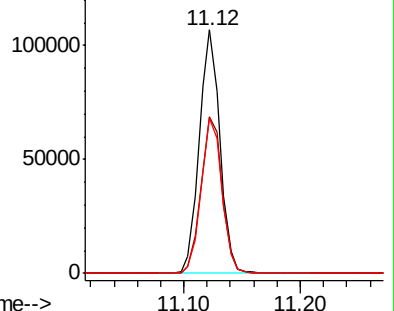
176 64.5 0.0 126.0



Abundance Ion 94.90 (94.60 to 95.60): VX015927.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX015927.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX015927.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX015945.D

Acq: 24 Apr 2020 20:52

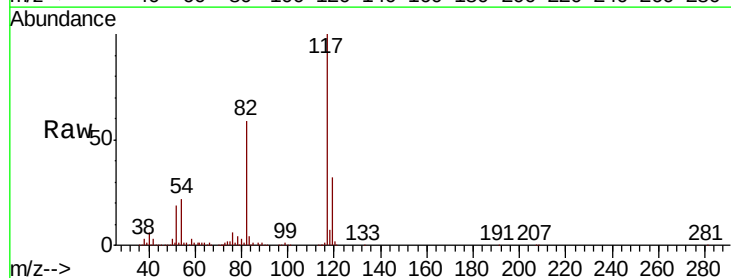
Tgt Ion: 117 Resp: 251165

Ion Ratio Lower Upper

117 100

82 58.8 48.5 72.7

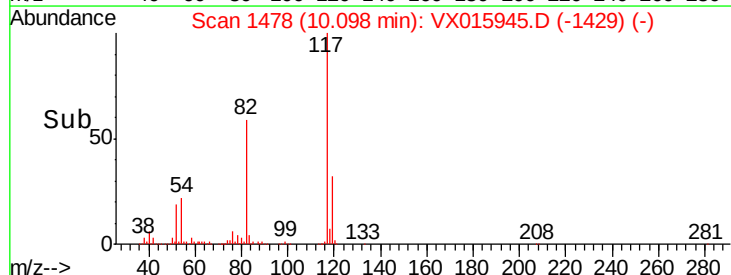
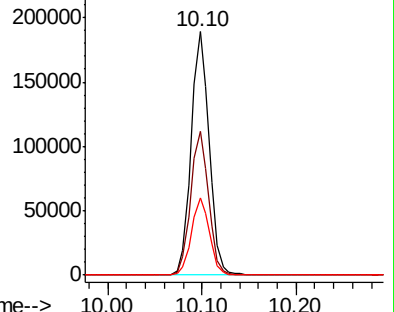
119 31.8 26.2 39.4

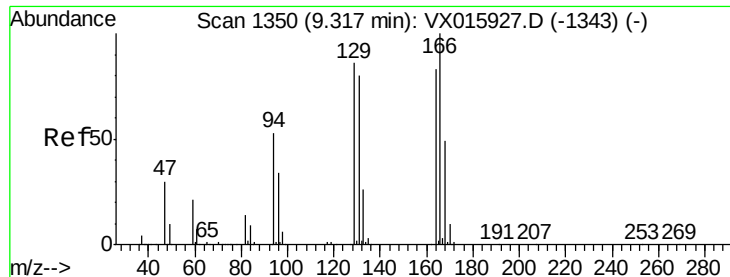


Abundance Ion 116.90 (116.60 to 117.60): VX015927.D (-1471) (-)

Ion 82.00 (81.70 to 82.70): VX015927.D (-1471) (-)

Ion 118.90 (118.60 to 119.60): VX015927.D (-1471) (-)





#64

Tetrachloroethene

Concen: 30.693 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VX015945.D

Acq: 24 Apr 2020 20:52

Instrument :

MSVOA_X

ClientSampleId :

ST006RW116-200422

Tot Ion:164 Resp: 76710

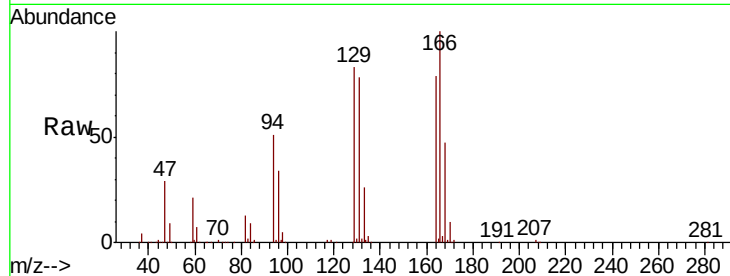
Ion Ratio Lower Upper

164 100

166 127.2 96.7 145.1

129 105.8 82.8 124.2

131 99.8 77.0 115.4

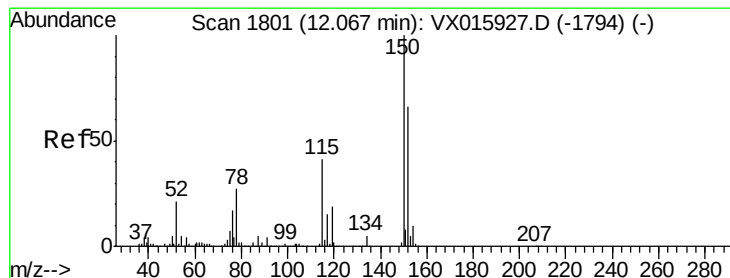
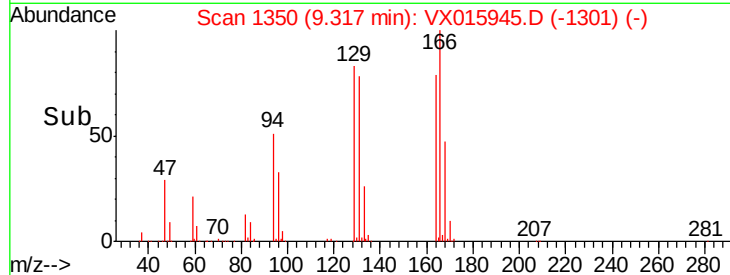
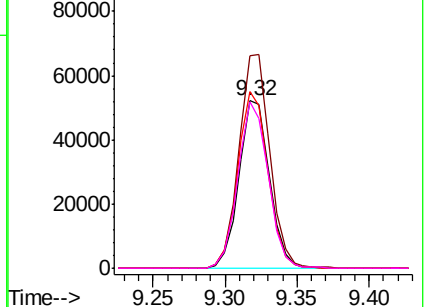


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.01 min

Lab File: VX015945.D

Acq: 24 Apr 2020 20:52

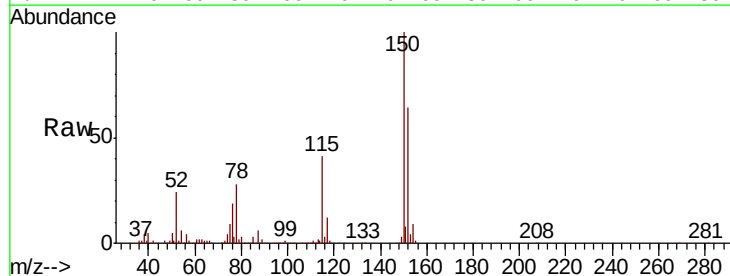
Tgt Ion:152 Resp: 121791

Ion Ratio Lower Upper

152 100

115 63.3 44.1 132.4

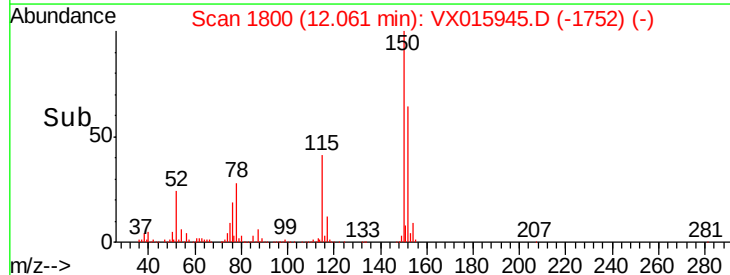
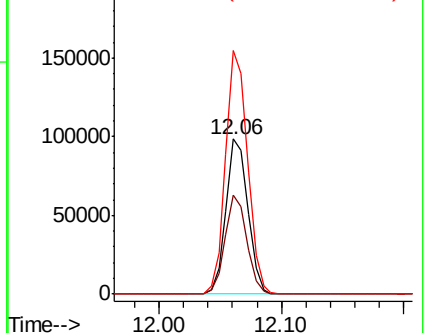
150 157.0 0.0 343.6

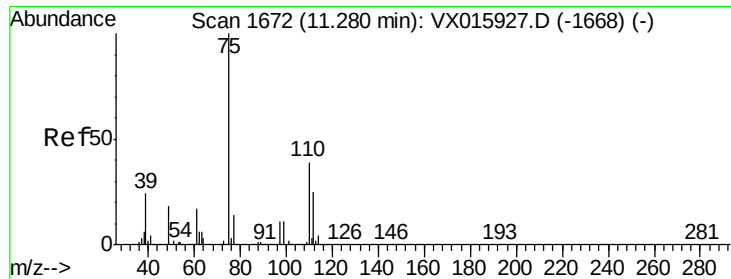


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.291 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX015945.D

Acq: 24 Apr 2020 20:52

Instrument :

MSVOA_X

ClientSampleId :

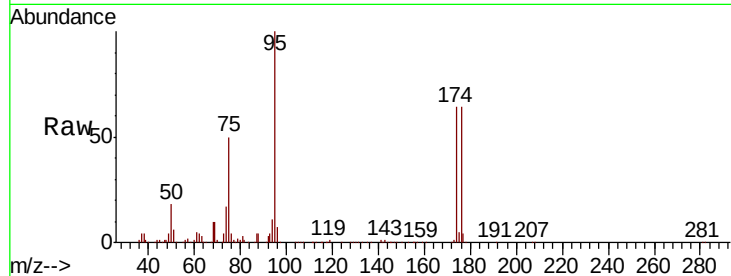
ST006RW116-200422

Tot Ion: 75 Resp: 66074

Ion Ratio Lower Upper

75 100

77 1.2 22.1 66.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

60000

50000

40000

30000

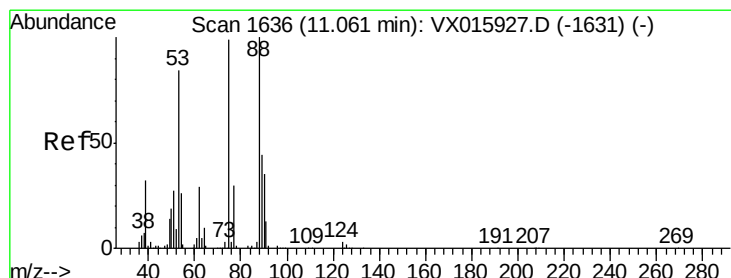
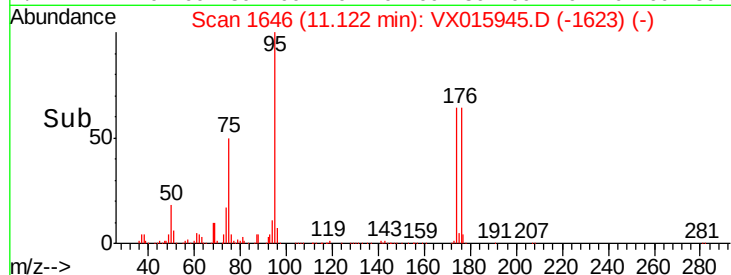
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 56.972 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX015945.D

Acq: 24 Apr 2020 20:52

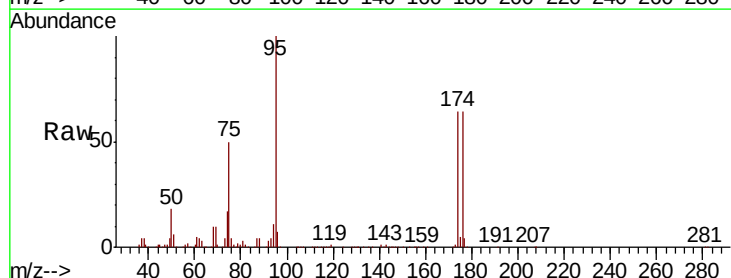
Tgt Ion: 75 Resp: 66074

Ion Ratio Lower Upper

75 100

53 0.0 69.7 104.5#

89 0.0 36.3 54.5#



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

60000

40000

20000

0

Time-->

11.10 11.20

