

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071519\
 Data File : VX010884.D
 Acq On : 15 Jul 2019 15:04
 Operator : JC/SP
 Sample : K3817-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW533-2126

Quant Time: Jul 16 01:59:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	226674	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	353567	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	323928	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	146041	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	119211	56.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.18%	
35) Dibromofluoromethane	5.49	113	111634	51.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.20%	
50) Toluene-d8	8.71	98	423592	51.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.36%	
62) 4-Bromofluorobenzene	11.13	95	146179	48.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.84%	

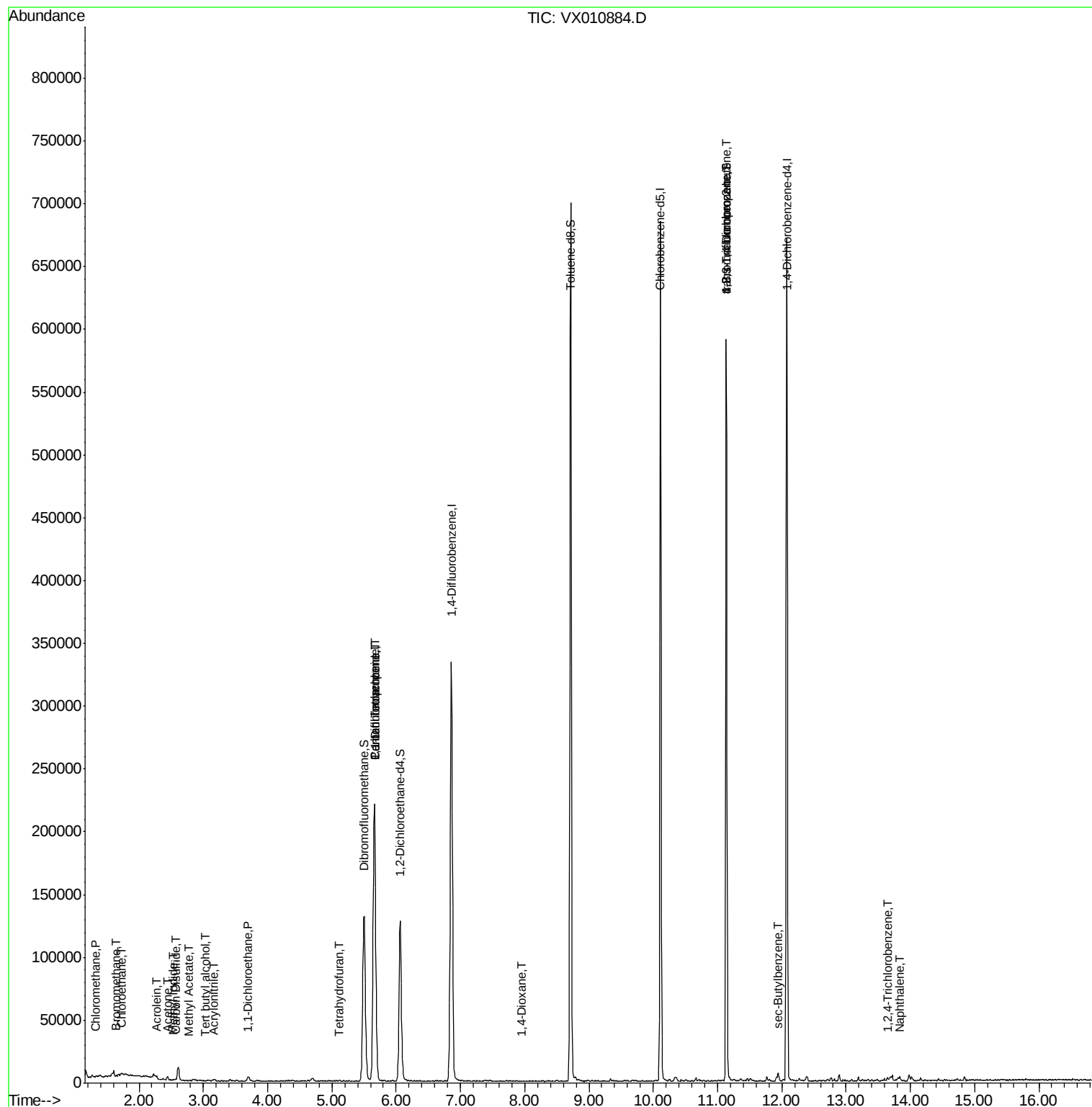
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	757	0.413	ug/l #	68
5) Bromomethane	1.65	94	558	0.570	ug/l #	55
6) Chloroethane	1.73	64	5791	4.884	ug/l #	67
10) Methyl Iodide	2.52	142	713	0.259	ug/l #	96
11) Tert butyl alcohol	3.04	59	356	0.640	ug/l #	74
13) Acrolein	2.28	56	266	0.721	ug/l	88
15) Acrylonitrile	3.16	53	411	0.373	ug/l #	76
16) Acetone	2.44	43	3197	3.002	ug/l	94
17) Carbon Disulfide	2.57	76	1233	0.234	ug/l	95
18) Methyl Acetate	2.78	43	572	0.269	ug/l	99
24) 1,1-Dichloroethane	3.70	63	3447	1.023	ug/l	93
29) Tetrahydrofuran	5.11	42	233	0.241	ug/l #	35
36) 1,1-Dichloropropene	5.66	75	15110	5.378	ug/l #	48
38) Carbon Tetrachloride	5.66	117	20640	6.784	ug/l #	15
49) 1,4-Dioxane	7.95	88	19	0.297	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	71841	26.995	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	71841	62.977	ug/l #	16
85) sec-Butylbenzene	11.94	105	3473	0.361	ug/l #	76
93) 1,2,4-Trichlorobenzene	13.64	180	737	0.222	ug/l #	77
95) Naphthalene	13.83	128	2134	0.209	ug/l #	89

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071519\
Data File : VX010884.D
Acq On : 15 Jul 2019 15:04
Operator : JC/SP
Sample : K3817-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SA-TW533-2126

Quant Time: Jul 16 01:59:17 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010884.D

Acq: 15 Jul 2019 15:04

Instrument :

MSVOA_X

ClientSampleId :

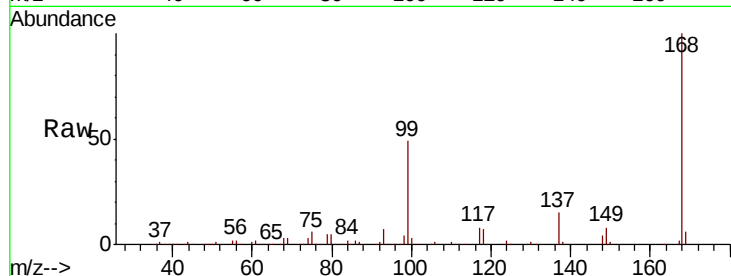
SA-TW533-2126

Tot Ion:168 Resp: 226674

Ion Ratio Lower Upper

168 100

99 48.8 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

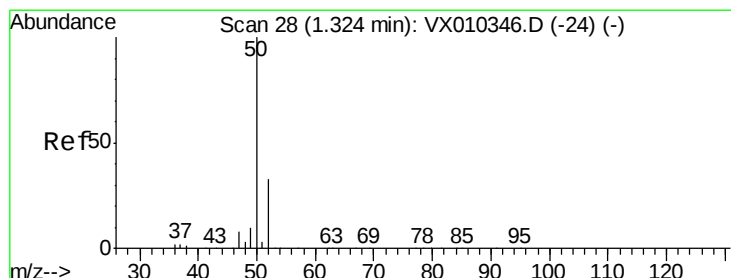
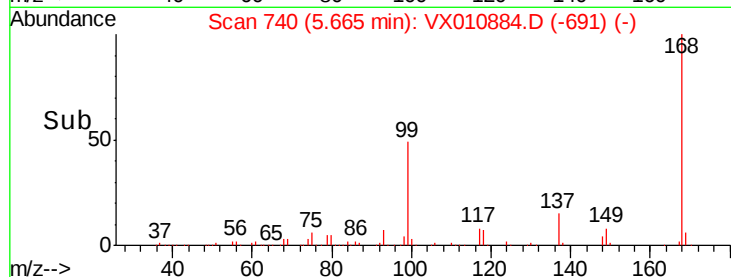
40000

20000

0

5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.413 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010884.D

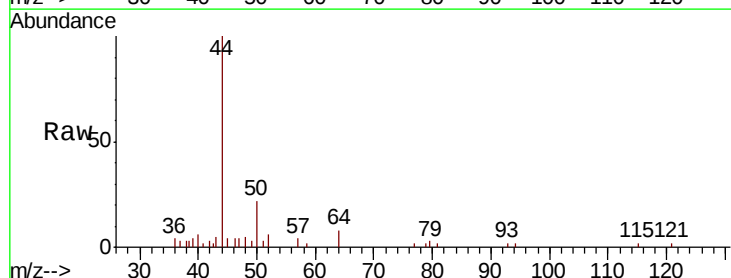
Acq: 15 Jul 2019 15:04

Tgt Ion: 50 Resp: 757

Ion Ratio Lower Upper

50 100

52 15.2 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

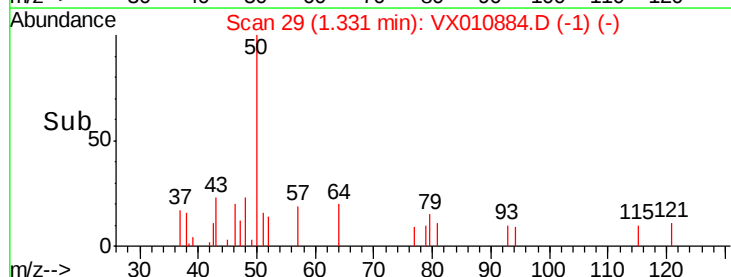
400

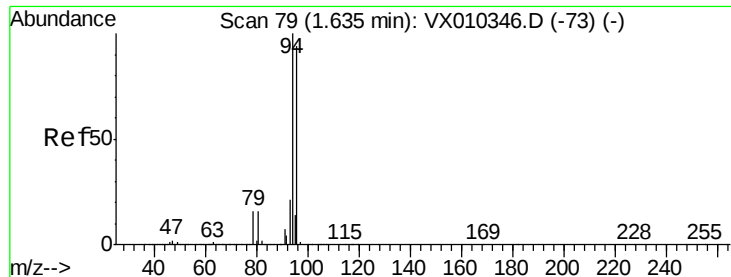
200

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: 0.570 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010884.D

Acq: 15 Jul 2019 15:04

Instrument :

MSVOA_X

ClientSampleId :

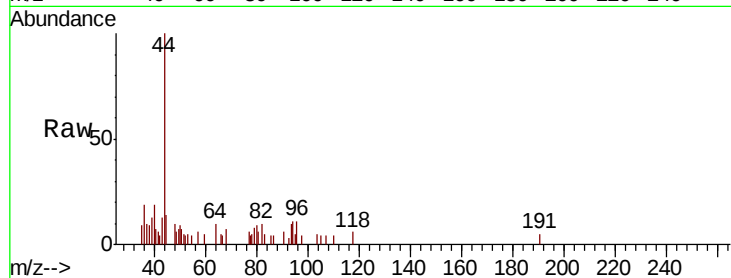
SA-TW533-2126

Tot Ion: 94 Resp: 558

Ion Ratio Lower Upper

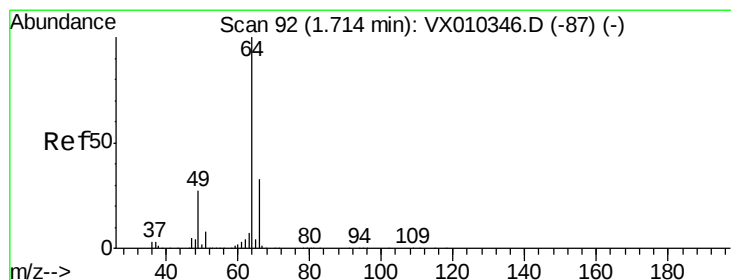
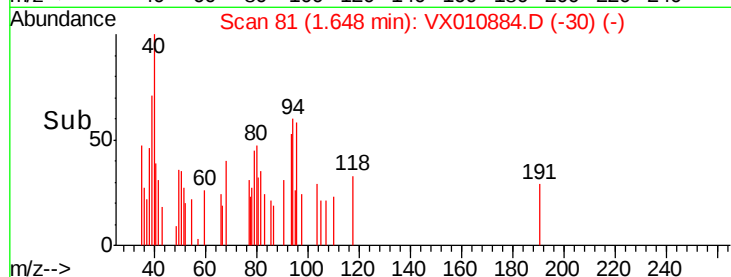
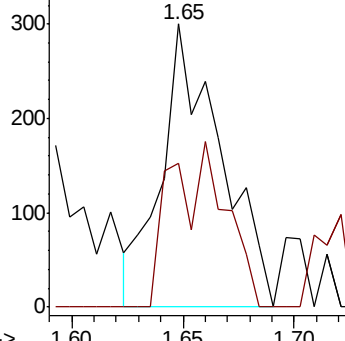
94 100

96 51.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 4.884 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX010884.D

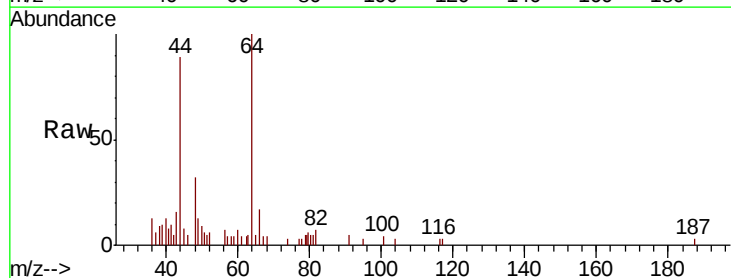
Acq: 15 Jul 2019 15:04

Tgt Ion: 64 Resp: 5791

Ion Ratio Lower Upper

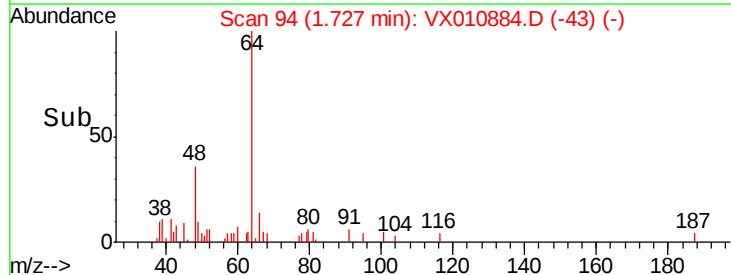
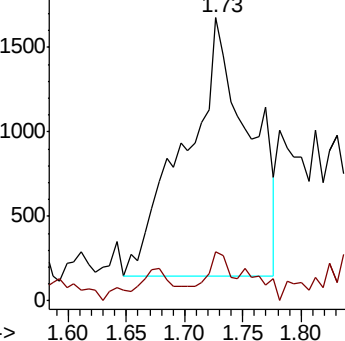
64 100

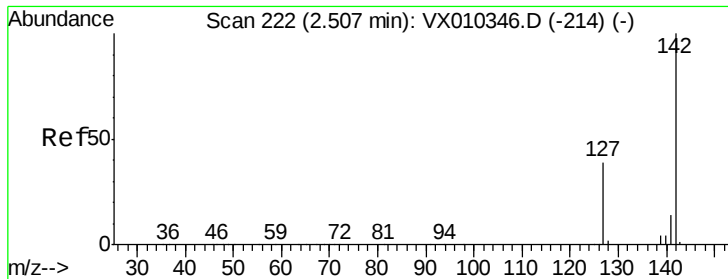
66 14.6 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

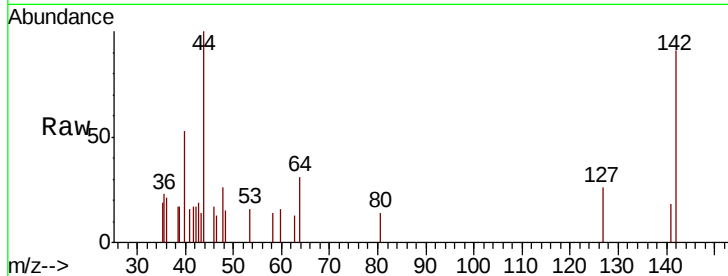




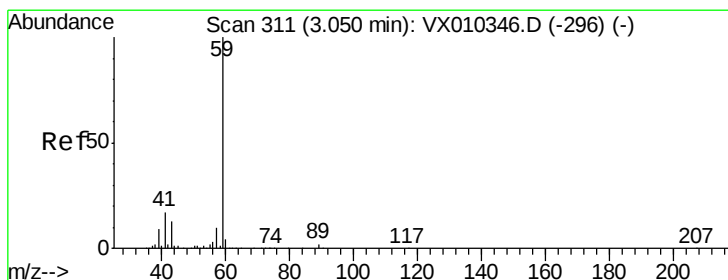
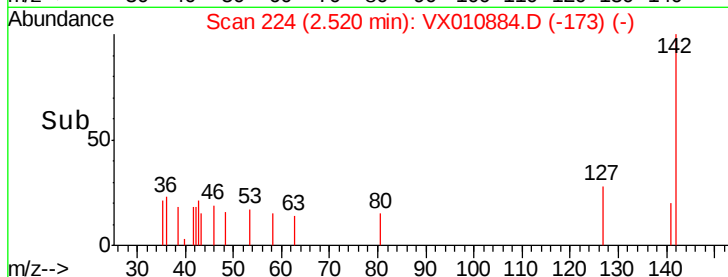
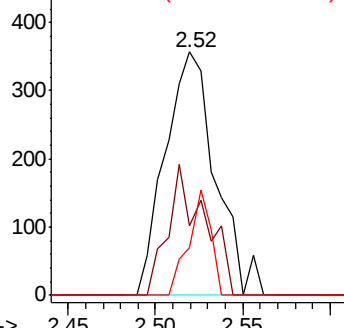
#10
Methvl Iodide
Concen: 0.259 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX010884.D
Acq: 15 Jul 2019 15:04

Instrument :
MSVOA_X
ClientSampleId :
SA-TW533-2126

Tot Ion:142 Resp: 713
Ion Ratio Lower Upper
142 100
127 39.3 31.1 46.7
141 19.2 11.2 16.8#

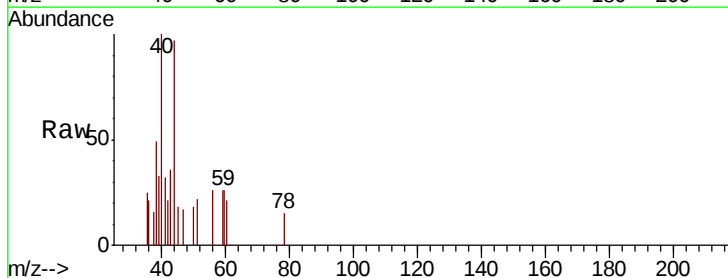


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

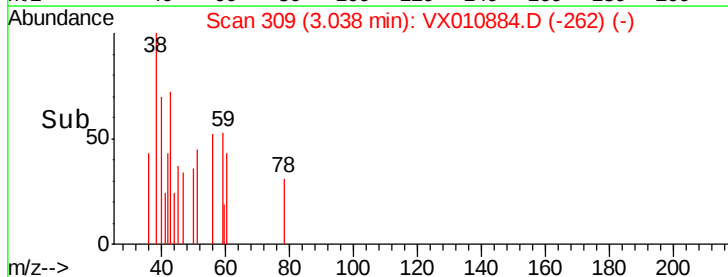
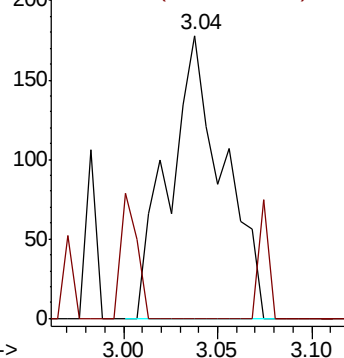


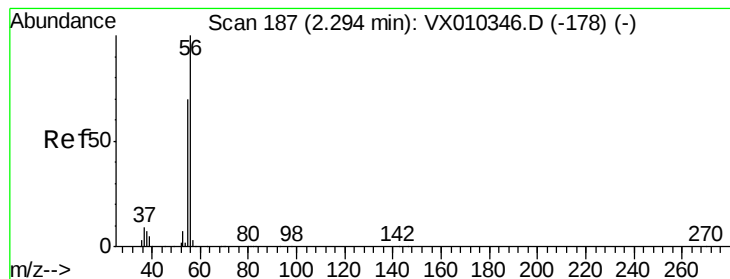
#11
Tert butyl alcohol
Concen: 0.640 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX010884.D
Acq: 15 Jul 2019 15:04

Tgt Ion: 59 Resp: 356
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.721 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX010884.D

Acq: 15 Jul 2019 15:04

Instrument :

MSVOA_X

ClientSampleId :

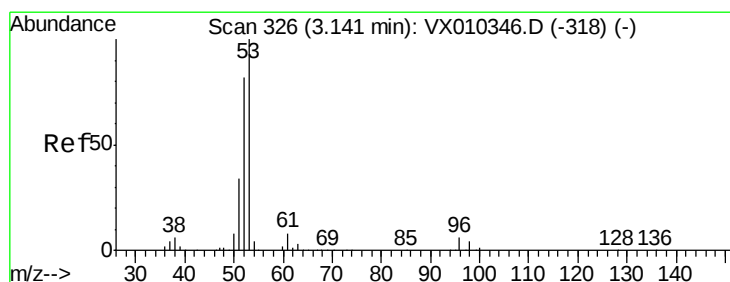
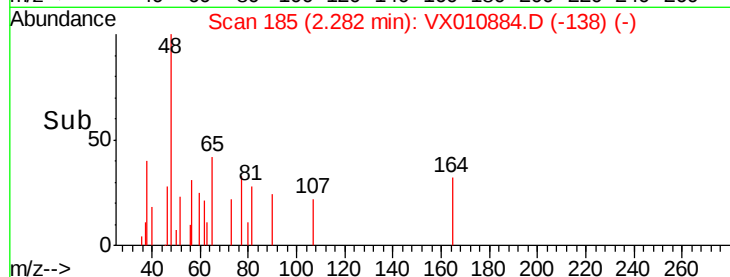
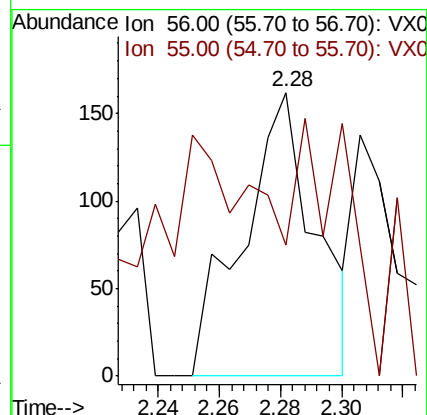
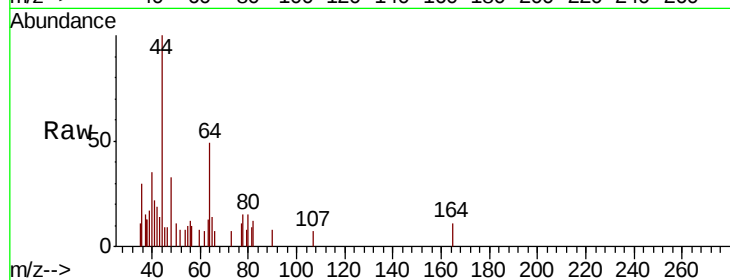
SA-TW533-2126

Tot Ion: 56 Resp: 266

Ion Ratio Lower Upper

56 100

55 61.3 56.9 85.3



#15

Acrylonitrile

Concen: 0.373 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.02 min

Lab File: VX010884.D

Acq: 15 Jul 2019 15:04

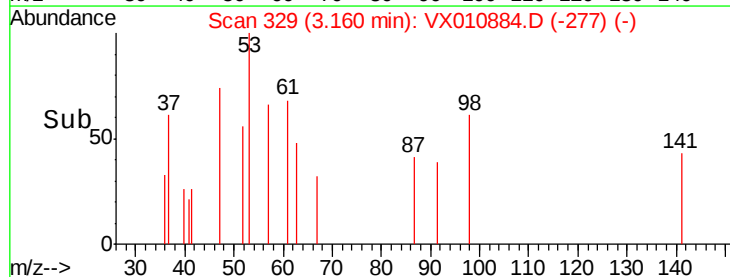
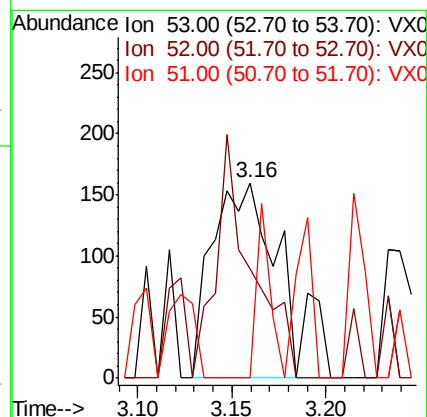
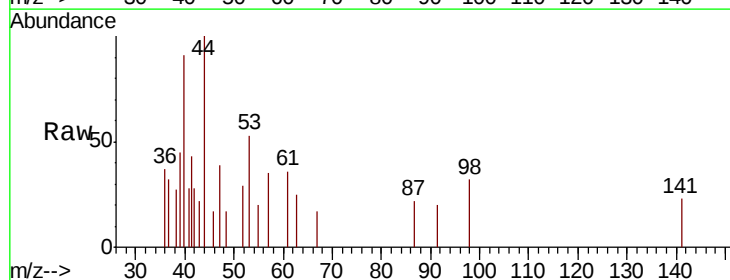
Tgt Ion: 53 Resp: 411

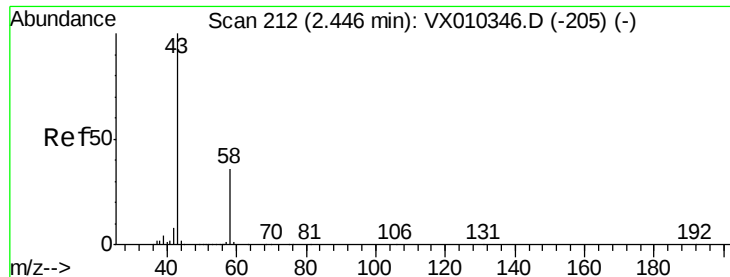
Ion Ratio Lower Upper

53 100

52 63.3 65.5 98.3#

51 17.3 28.2 42.4#





#16

Acetone

Concen: 3.002 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010884.D

Acq: 15 Jul 2019 15:04

Instrument :

MSVOA_X

ClientSampleId :

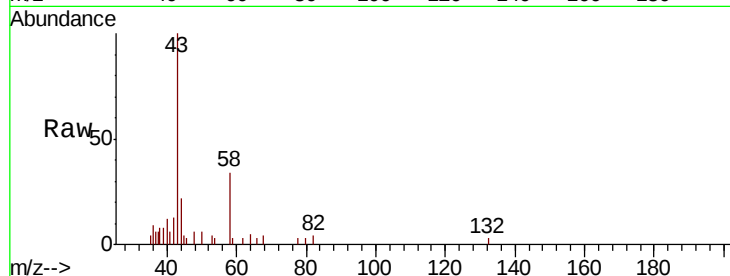
SA-TW533-2126

Tot Ion: 43 Resp: 3197

Ion Ratio Lower Upper

43 100

58 32.6 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

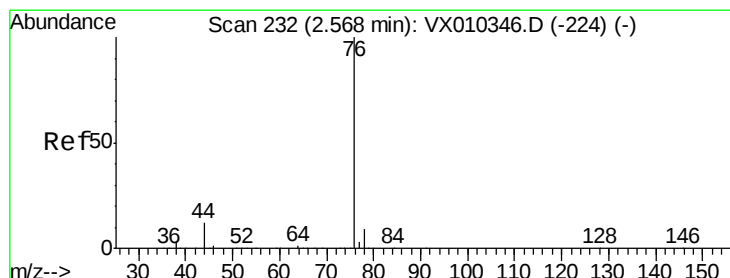
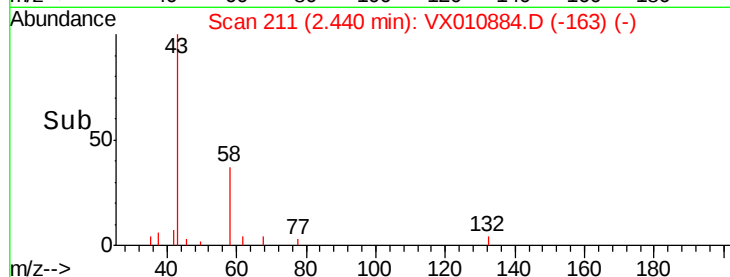
1500

1000

500

0

Time-->



#17

Carbon Disulfide

Concen: 0.234 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010884.D

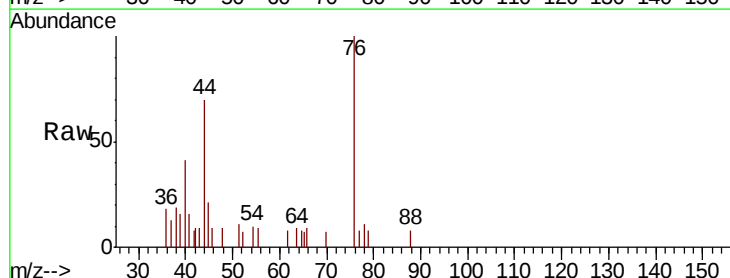
Acq: 15 Jul 2019 15:04

Tgt Ion: 76 Resp: 1233

Ion Ratio Lower Upper

76 100

78 10.8 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

800

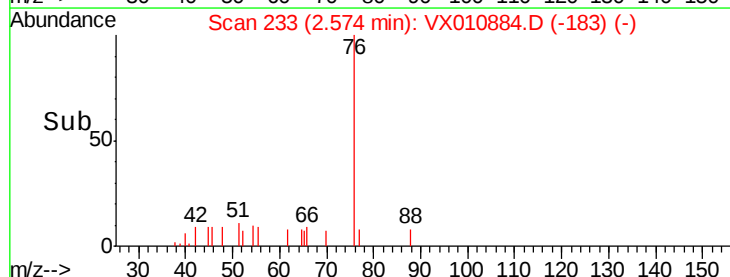
600

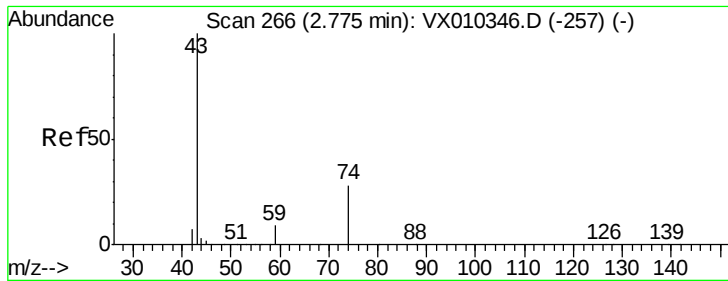
400

200

0

Time-->

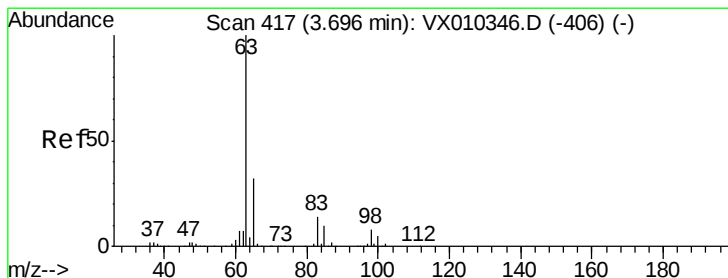
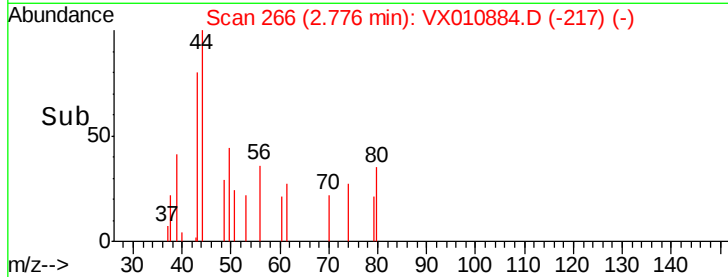
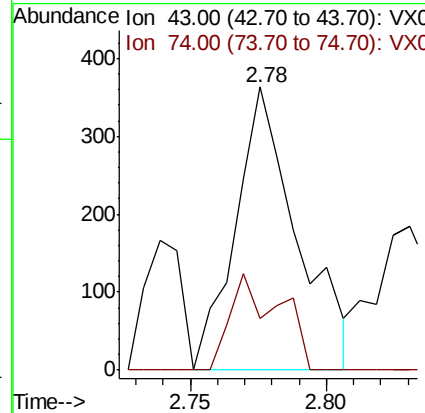
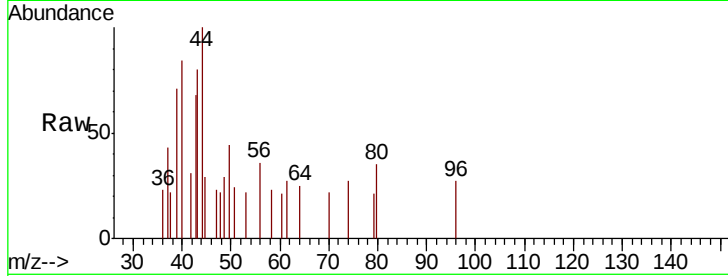




#18
Methvl Acetate
Concen: 0.269 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX010884.D
Acq: 15 Jul 2019 15:04

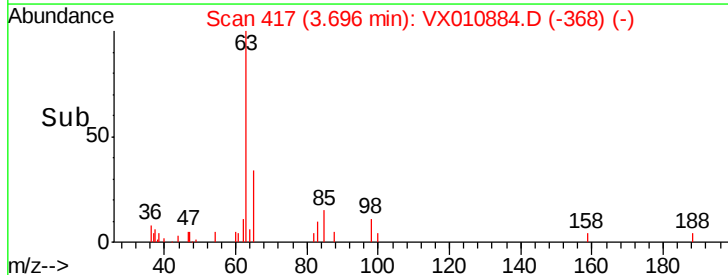
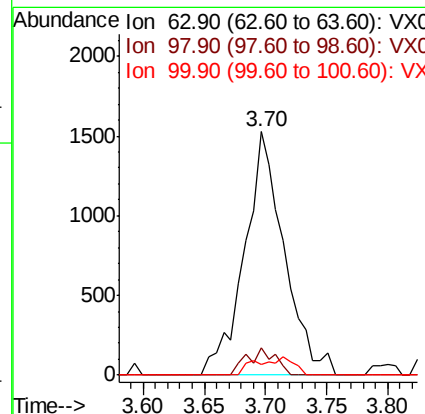
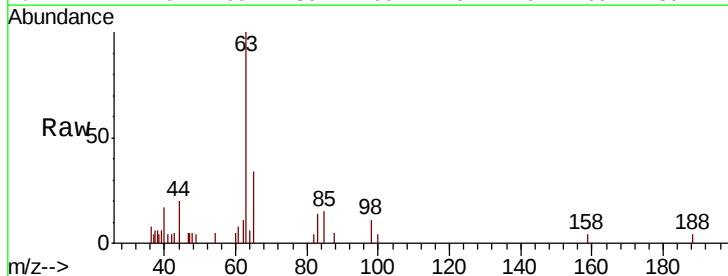
Instrument :
MSVOA_X
ClientSampleId :
SA-TW533-2126

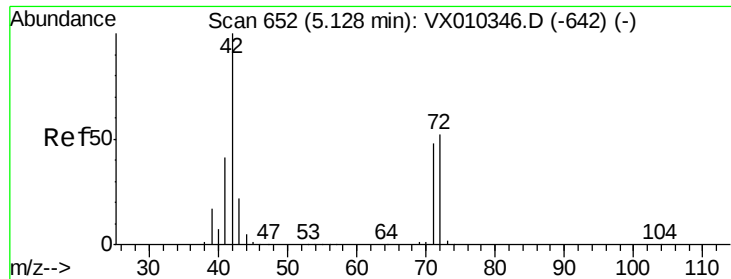
Tot Ion: 43 Resp: 572
Ion Ratio Lower Upper
43 100
74 27.1 21.3 31.9



#24
1,1-Dichloroethane
Concen: 1.023 ug/l
RT: 3.70 min Scan# 417
Delta R.T. 0.00 min
Lab File: VX010884.D
Acq: 15 Jul 2019 15:04

Tgt Ion: 63 Resp: 3447
Ion Ratio Lower Upper
63 100
98 11.3 3.9 11.7
100 4.1 2.4 7.1

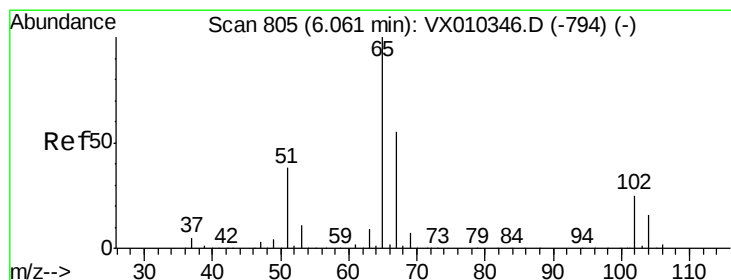
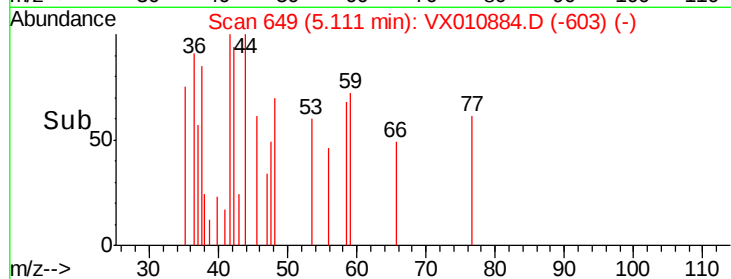
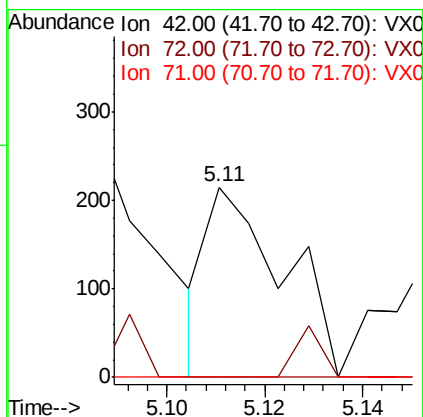
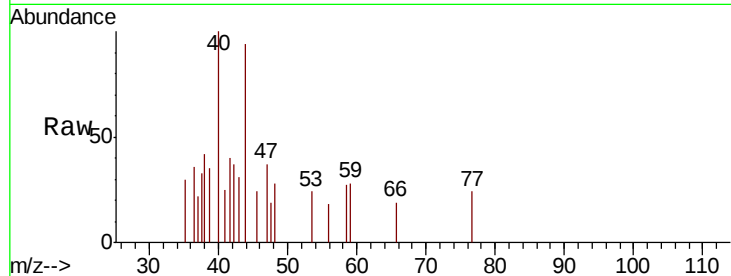




#29
Tetrahydrofuran
Concen: 0.241 ug/l
RT: 5.11 min Scan# 649
Delta R.T. -0.02 min
Lab File: VX010884.D
Acq: 15 Jul 2019 15:04

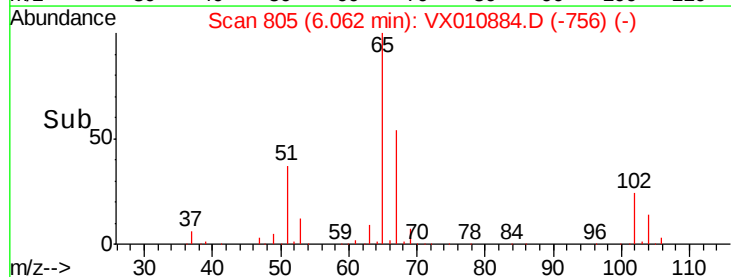
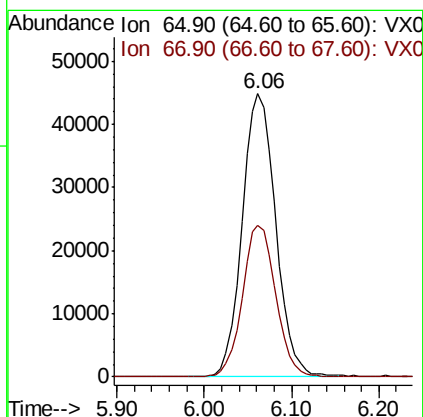
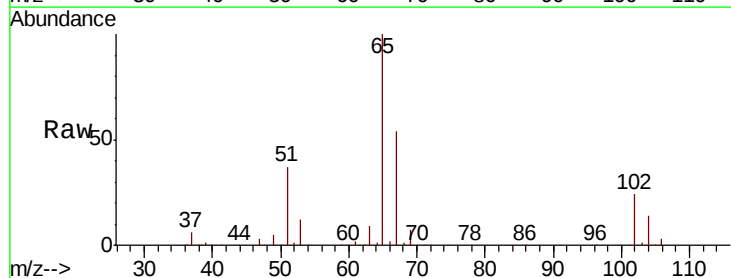
Instrument :
MSVOA_X
ClientSampleId :
SA-TW533-2126

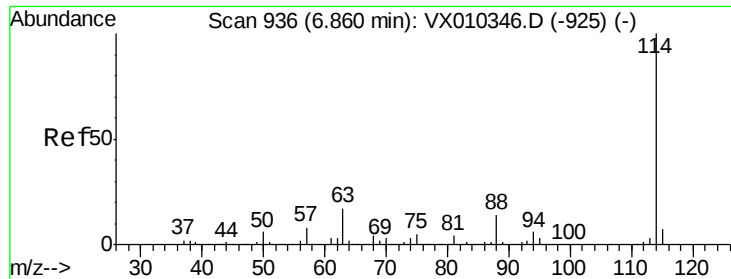
Tot Ion: 42 Resp: 233
Ion Ratio Lower Upper
42 100
72 9.4 40.6 60.8#
71 0.0 37.8 56.8#



#33
1,2-Dichloroethane-d4
Concen: 56.092 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010884.D
Acq: 15 Jul 2019 15:04

Tgt Ion: 65 Resp: 119211
Ion Ratio Lower Upper
65 100
67 53.5 0.0 110.2

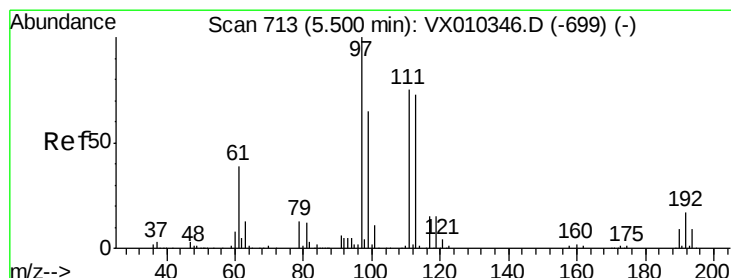
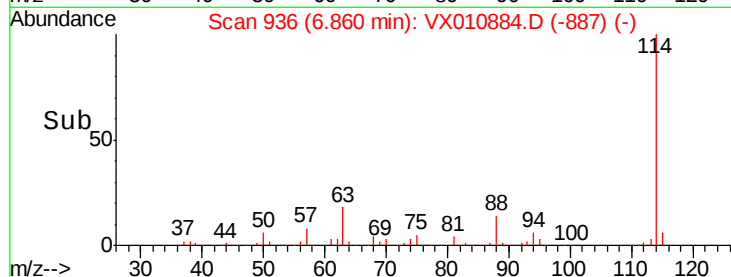
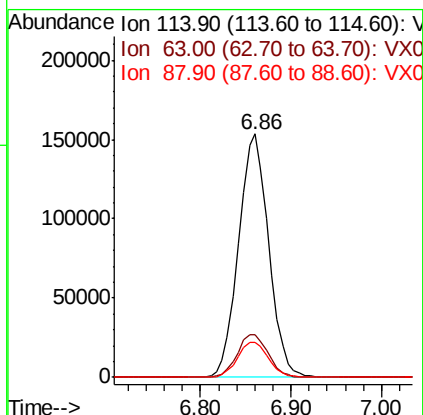
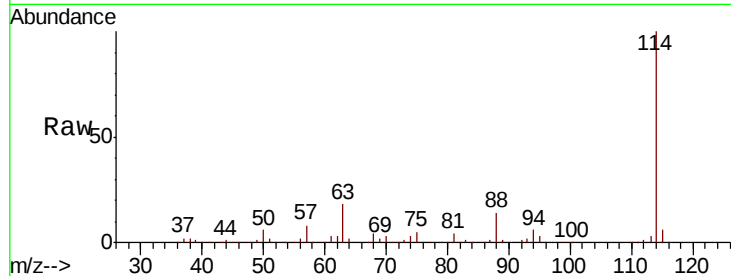




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010884.D
 Acq: 15 Jul 2019 15:04

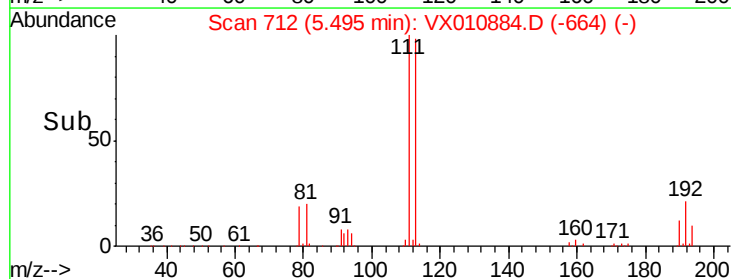
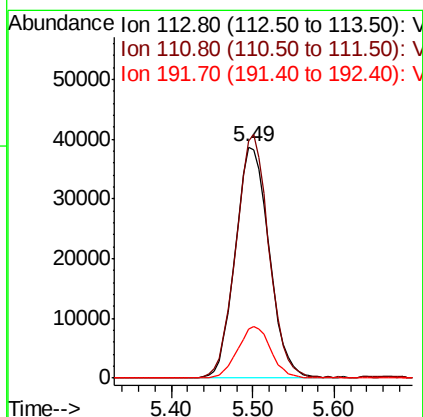
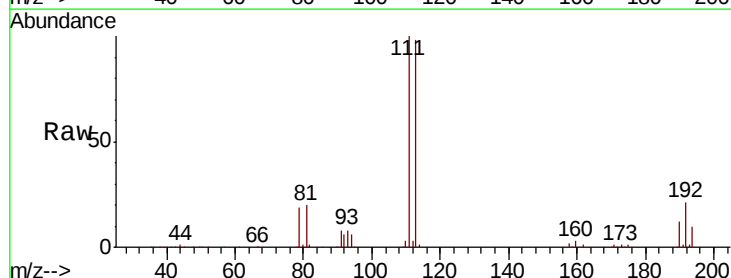
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW533-2126

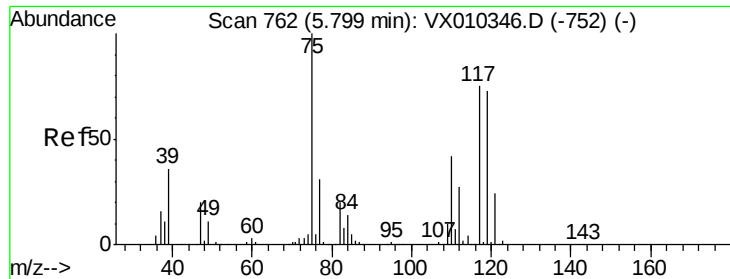
Tot Ion	Ratio	Lower	Upper
114	100		
63	17.7	0.0	33.8
88	14.4	0.0	27.6



#35
 Dibromofluoromethane
 Concen: 51.605 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX010884.D
 Acq: 15 Jul 2019 15:04

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.2	121.8
192	21.9	18.6	27.8

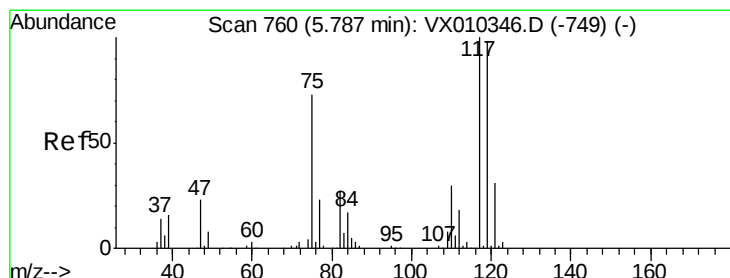
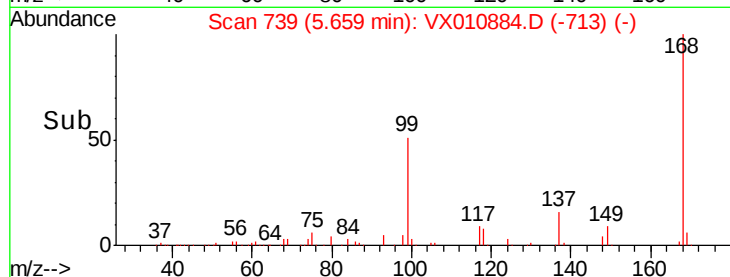
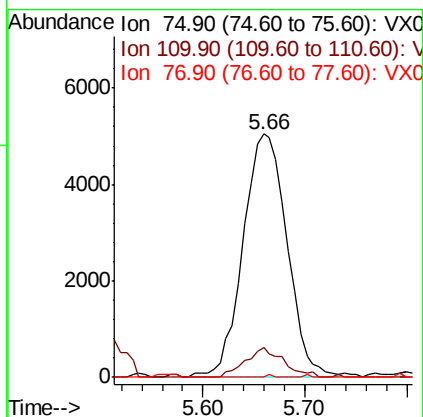
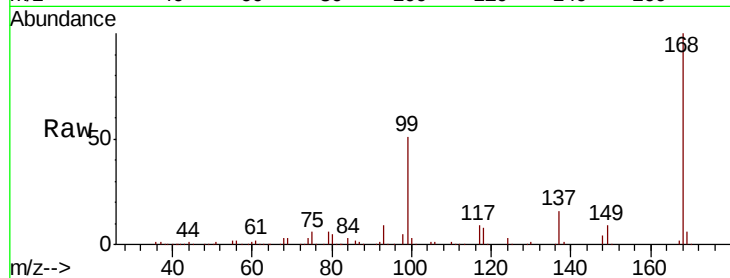




#36
 1,1-Dichloropropene
 Concen: 5.378 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010884.D
 Acq: 15 Jul 2019 15:04

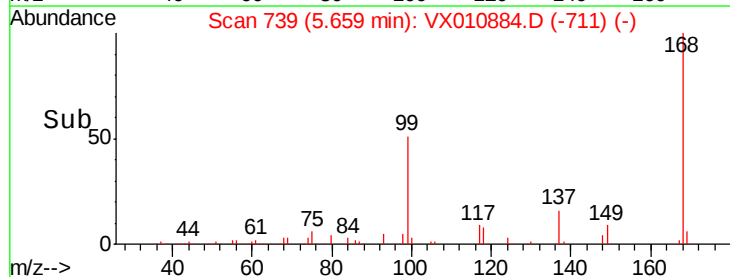
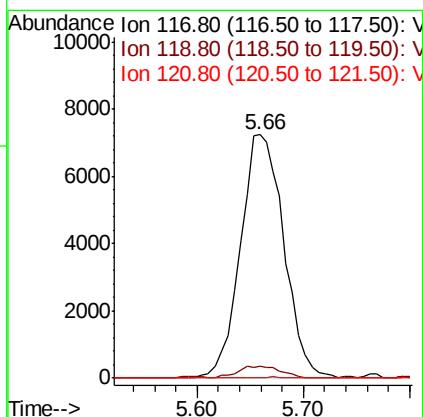
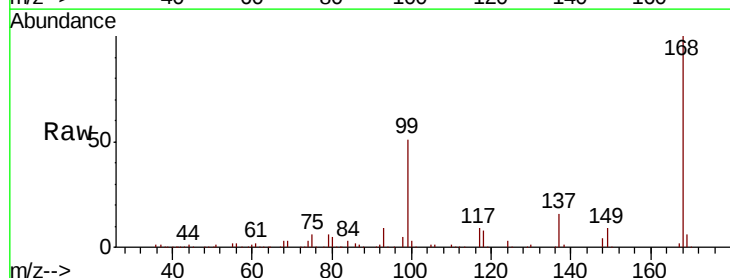
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW533-2126

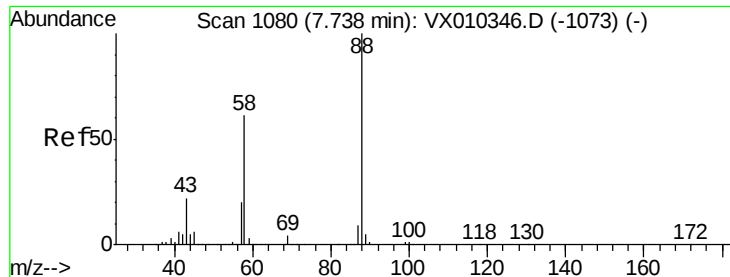
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.6	20.8	62.2#
77	0.2	25.4	38.0#



#38
 Carbon Tetrachloride
 Concen: 6.784 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX010884.D
 Acq: 15 Jul 2019 15:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	78.2	117.4#
121	0.0	24.7	37.1#





#49

1,4-Dioxane

Concen: 0.297 ug/l

RT: 7.95 min Scan# 1114

Delta R.T. 0.21 min

Lab File: VX010884.D

Acq: 15 Jul 2019 15:04

Instrument :

MSVOA_X

ClientSampleId :

SA-TW533-2126

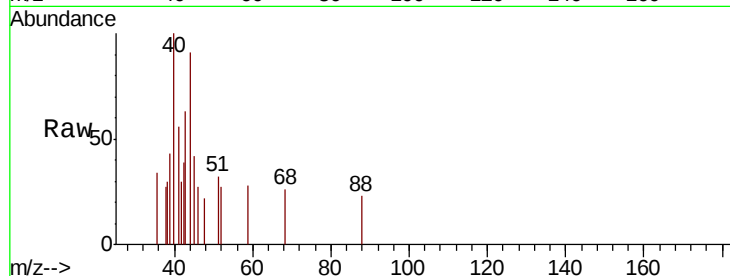
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 652.6 20.2 30.2#

58 0.0 49.5 74.3#



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

200

150

100

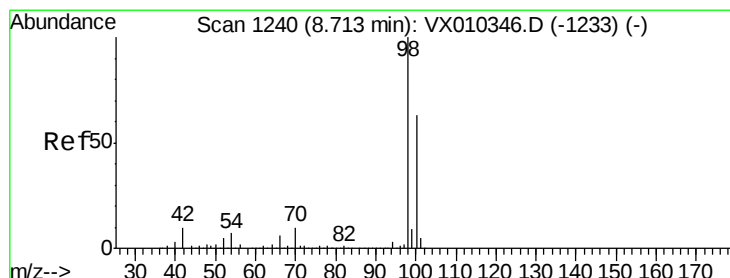
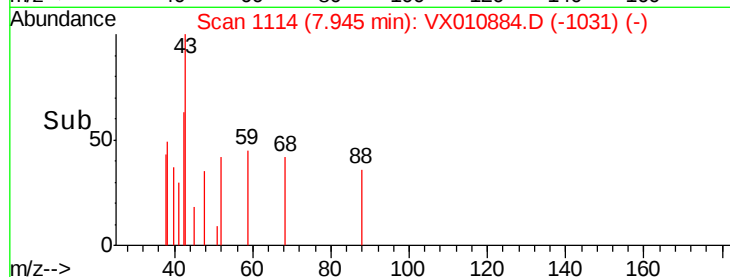
50

0

7.93 7.94 7.95 7.96

7.95

Time-->



#50

Toluene-d8

Concen: 51.182 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010884.D

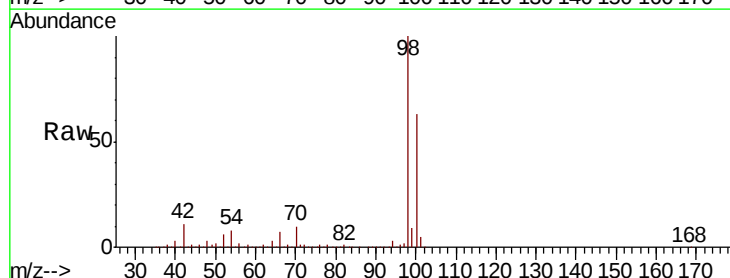
Acq: 15 Jul 2019 15:04

Tgt Ion: 98 Resp: 423592

Ion Ratio Lower Upper

98 100

100 63.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

300000

250000

200000

150000

100000

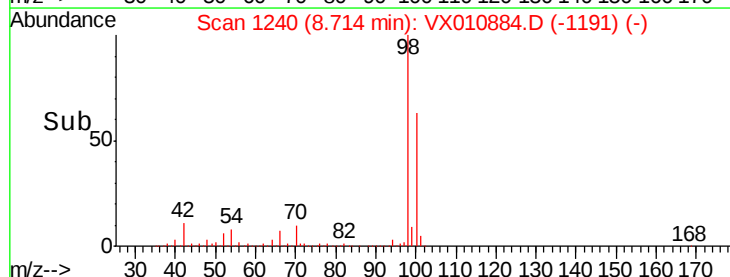
50000

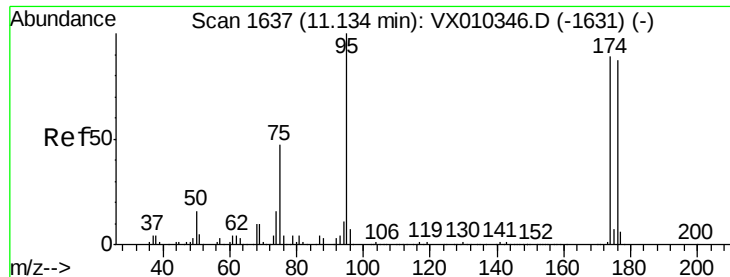
0

8.60 8.70 8.80

8.71

Time-->





#62

4-Bromofluorobenzene

Concen: 48.923 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010884.D

Acq: 15 Jul 2019 15:04

Instrument :

MSVOA_X

ClientSampleId :

SA-TW533-2126

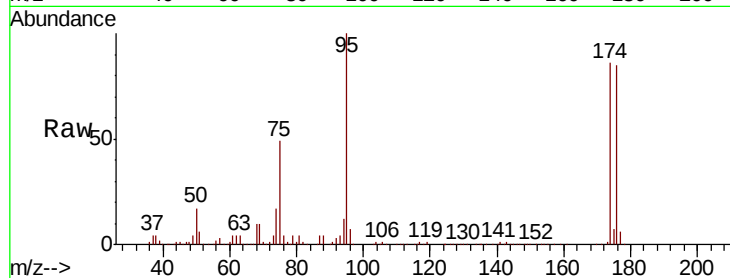
Tot Ion: 95 Resp: 146179

Ion Ratio Lower Upper

95 100

174 90.7 0.0 187.6

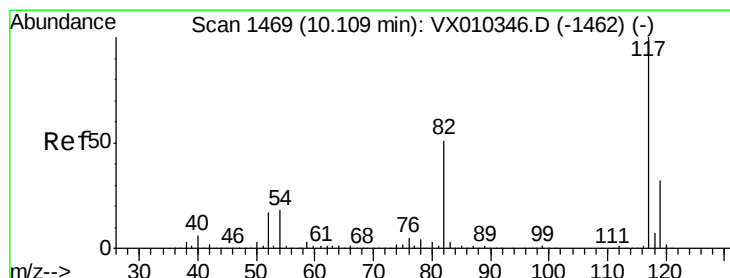
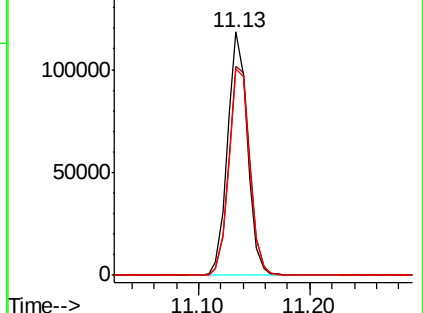
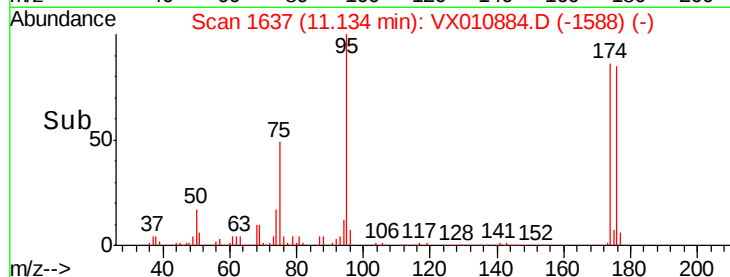
176 88.3 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010884.D

Acq: 15 Jul 2019 15:04

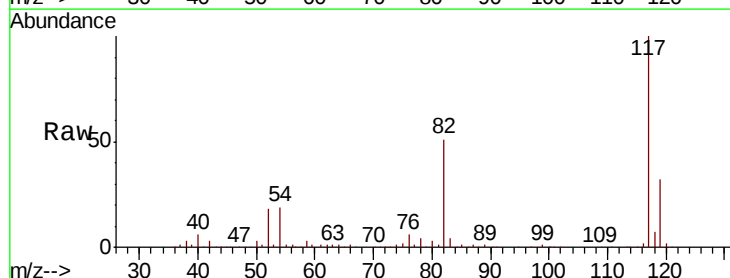
Tgt Ion: 117 Resp: 323928

Ion Ratio Lower Upper

117 100

82 51.0 41.2 61.8

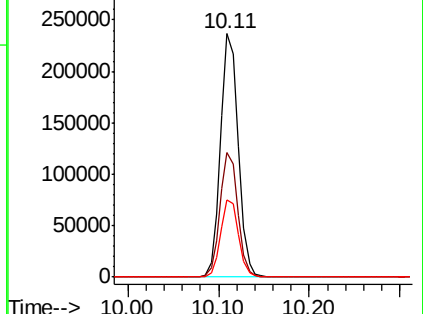
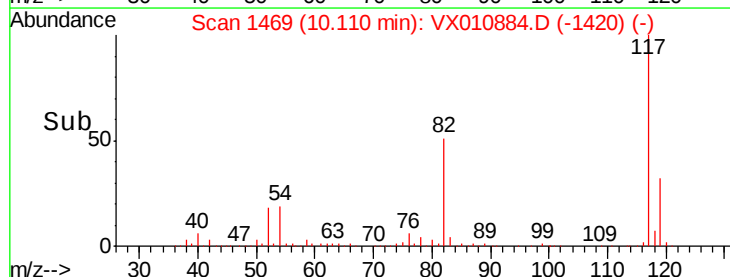
119 31.7 25.5 38.3

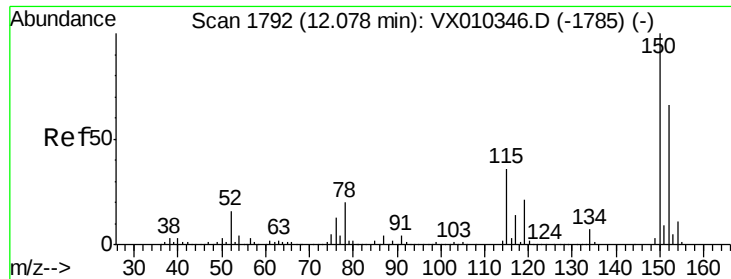


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010884.D

Acq: 15 Jul 2019 15:04

Instrument :

MSVOA_X

ClientSampleId :

SA-TW533-2126

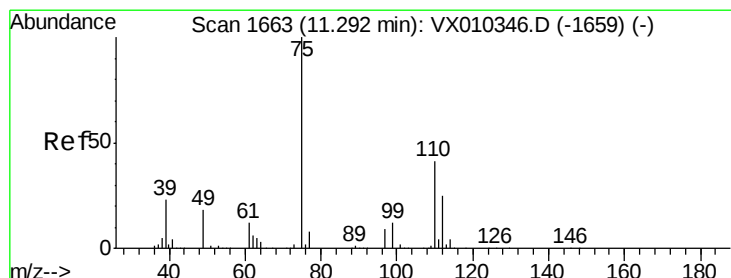
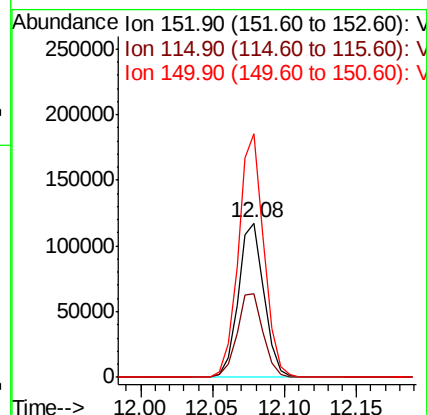
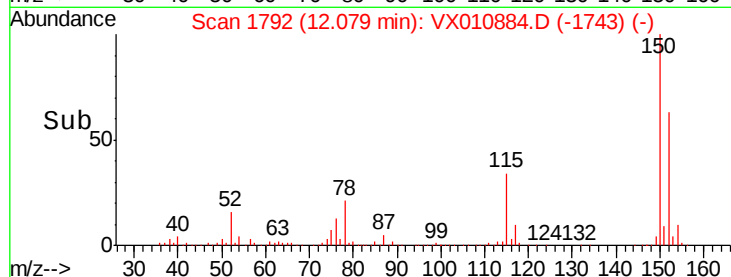
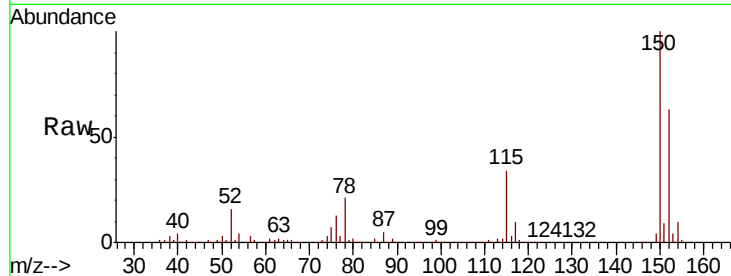
Tot Ion:152 Resp: 146041

Ion Ratio Lower Upper

152 100

115 55.4 38.6 115.7

150 156.2 0.0 347.4



#76

1,2,3-Trichloropropane

Concen: 26.995 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010884.D

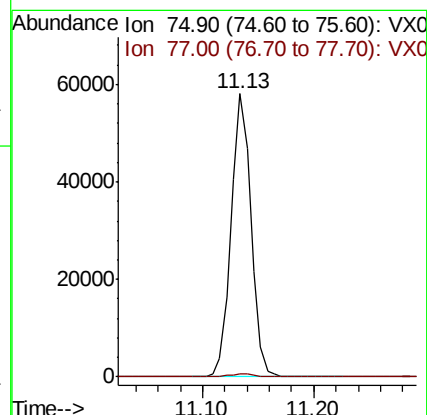
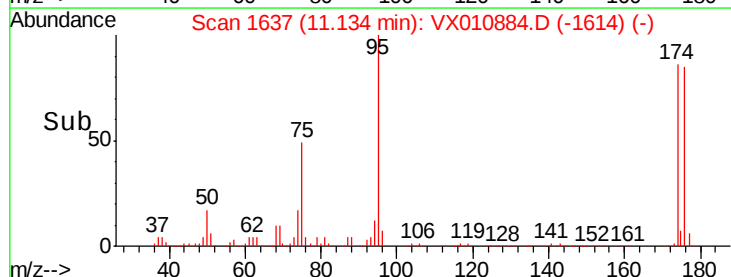
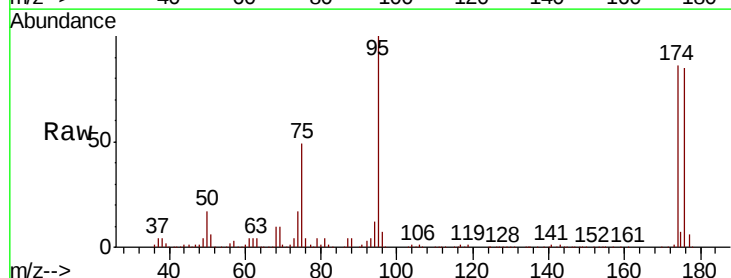
Acq: 15 Jul 2019 15:04

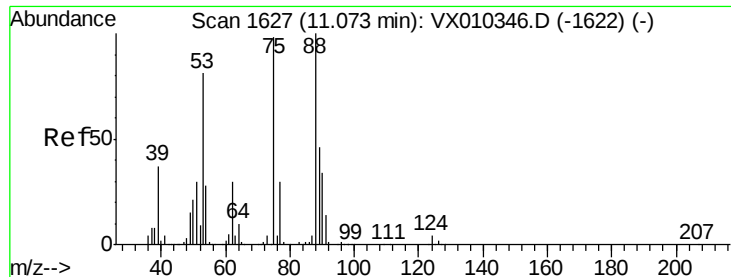
Tgt Ion: 75 Resp: 71841

Ion Ratio Lower Upper

75 100

77 1.3 22.6 67.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 62.977 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010884.D

Acq: 15 Jul 2019 15:04

Instrument :

MSVOA_X

ClientSampleId :

SA-TW533-2126

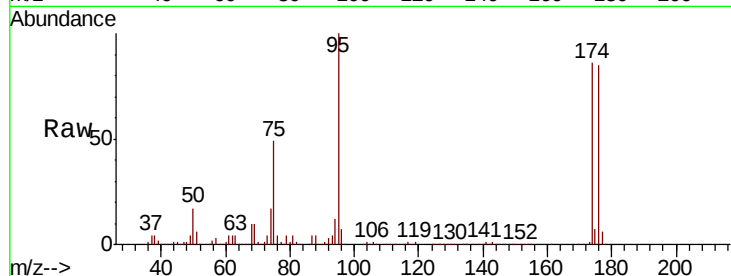
Tot Ion: 75 Resp: 71841

Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

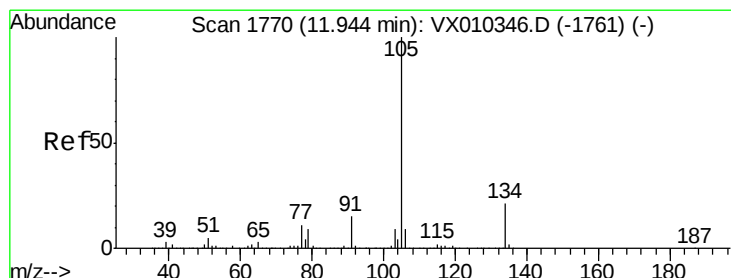
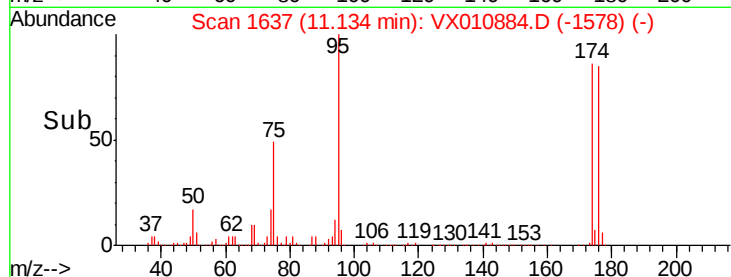
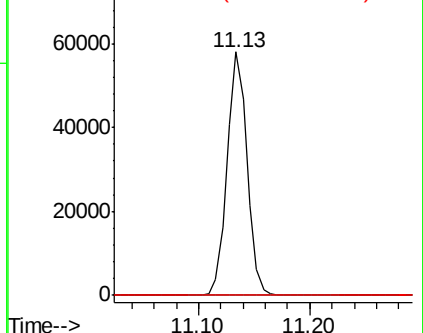
89 0.0 37.8 56.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#85

sec-Butylbenzene

Concen: 0.361 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX010884.D

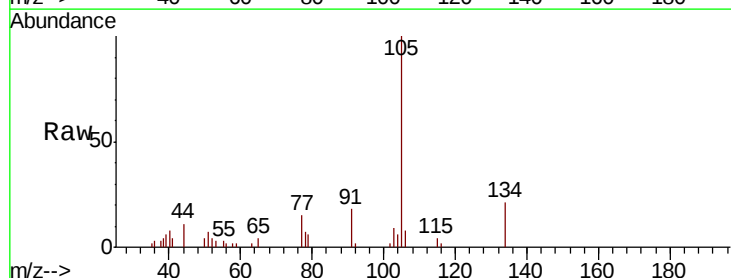
Acq: 15 Jul 2019 15:04

Tgt Ion: 105 Resp: 3473

Ion Ratio Lower Upper

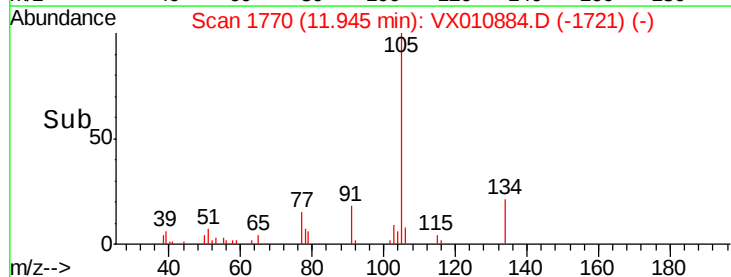
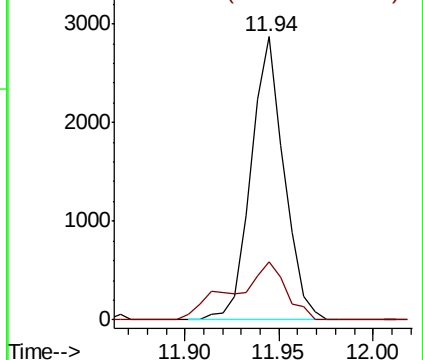
105 100

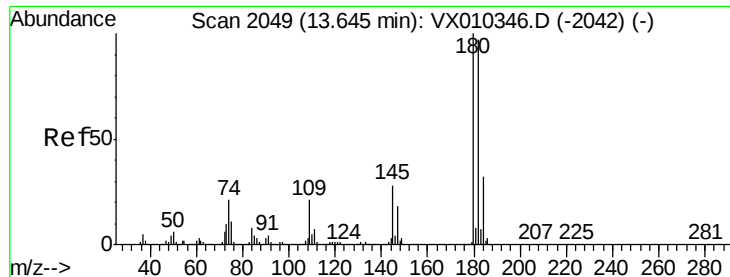
134 32.8 10.7 31.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

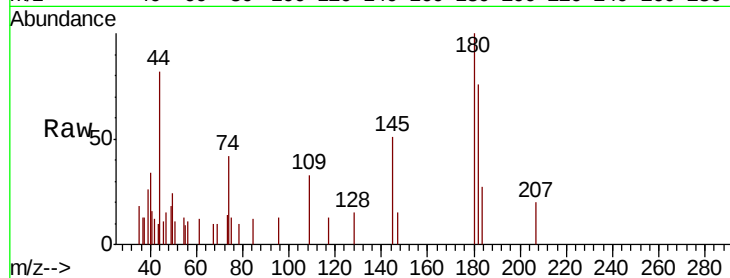




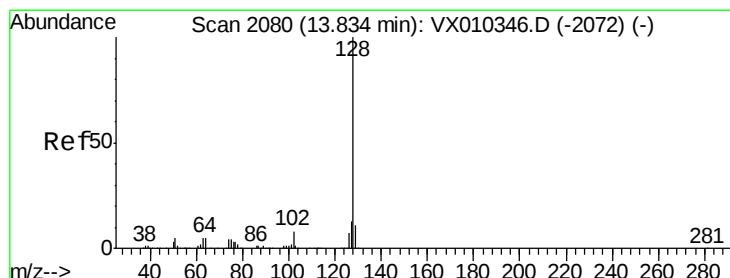
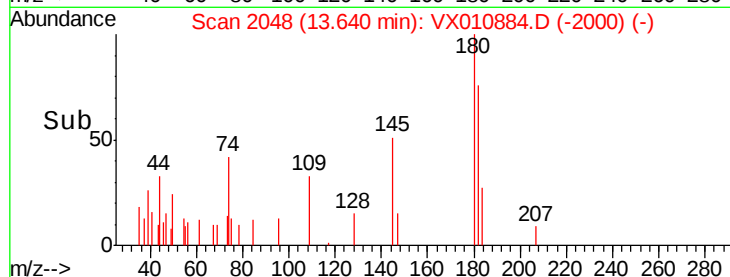
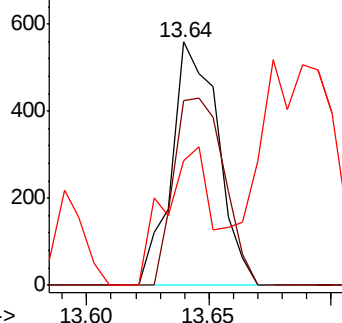
#93
 1,2,4-Trichlorobenzene
 Concen: 0.222 ug/l
 RT: 13.64 min Scan# 2048
 Delta R.T. -0.01 min
 Lab File: VX010884.D
 Acq: 15 Jul 2019 15:04

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW533-2126

Tot Ion:180 Resp: 737
 Ion Ratio Lower Upper
 180 100
 182 84.1 48.0 144.0
 145 60.8 14.4 43.4#

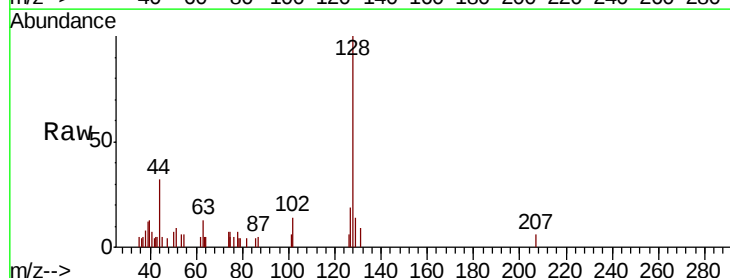


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 0.209 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX010884.D
 Acq: 15 Jul 2019 15:04

Tgt Ion:128 Resp: 2134
 Ion Ratio Lower Upper
 128 100
 127 16.7 10.2 15.4#
 129 16.2 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

