

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102519\
 Data File : VX013212.D
 Acq On : 24 Oct 2019 15:29
 Operator : JC/SP
 Sample : K5532-01DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0670DL

Quant Time: Oct 25 01:20:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 24 03:56:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	81019	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	119502	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	116649	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	73563	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	87297	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
35) Dibromofluoromethane	5.49	113	66797	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
50) Toluene-d8	8.71	98	241675	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
62) 4-Bromofluorobenzene	11.14	95	88847	45.45	ug/l	0.00
Spiked Amount			Recovery	=	90.90%	

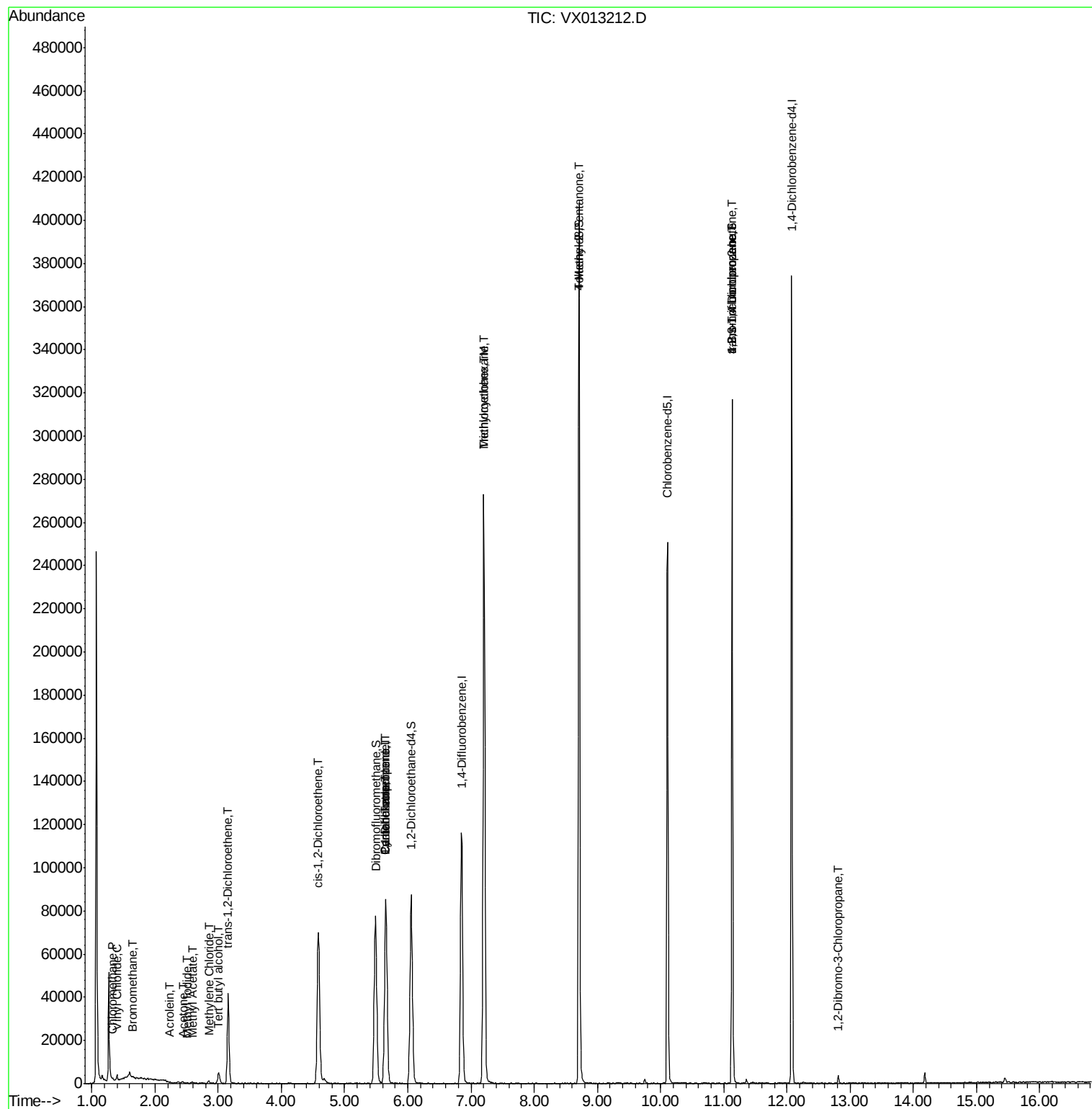
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	142	1.081	ug/l #	40
4) Vinyl Chloride	1.40	62	1328	0.903	ug/l #	81
5) Bromomethane	1.64	94	285	0.365	ug/l #	58
6) Chloroethane	1.70	64	944	Below Cal	#	72
10) Methyl Iodide	2.50	142	201	3.643	ug/l #	78
11) Tert butyl alcohol	3.00	59	3087	7.366	ug/l #	72
13) Acrolein	2.23	56	64	0.322	ug/l #	82
16) Acetone	2.44	43	914	1.145	ug/l #	69
18) Methyl Acetate	2.60	43	81	1.014	ug/l #	49
20) Methylene Chloride	2.85	84	636	0.712	ug/l #	82
21) trans-1,2-Dichloroethene	3.16	96	18003	12.893	ug/l	90
27) cis-1,2-Dichloroethene	4.59	96	45066	26.662	ug/l	88
31) Cyclohexane	5.65	56	1665	0.760	ug/l #	29
36) 1,1-Dichloropropene	5.64	75	6109	2.981	ug/l #	49
38) Carbon Tetrachloride	5.65	117	8101	3.668	ug/l #	14
39) Methylcyclohexane	7.20	83	1260	0.493	ug/l #	1
44) Trichloroethene	7.21	130	107972	63.380	ug/l	100
51) 4-Methyl-2-Pentanone	8.71	43	940	0.466	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	43178	24.353	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	43178	66.921	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	12.81	75	103	0.204	ug/l #	1

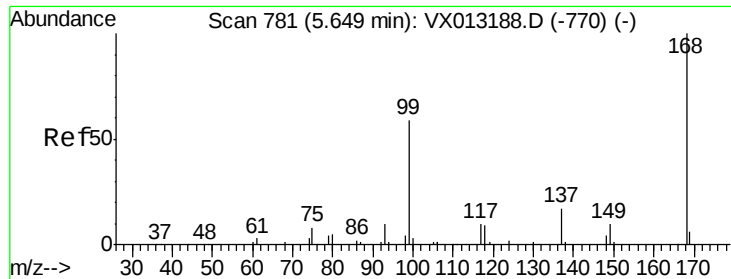
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX102519\
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Instrument :
MSVOA_X
ClientSampleID :
S32-0670DL

Quant Time: Oct 25 01:20:50 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 24 03:56:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

Instrument :

MSVOA_X

ClientSampled :

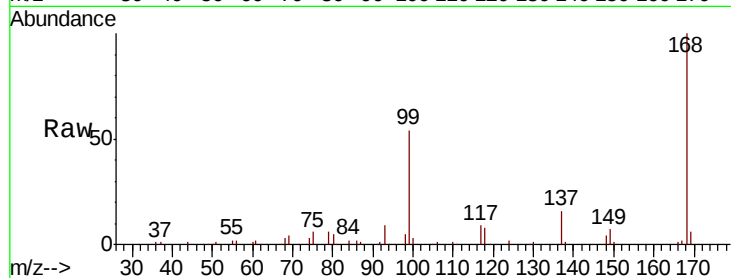
S32-0670DL

Tot Ion:168 Resp: 81019

Ion Ratio Lower Upper

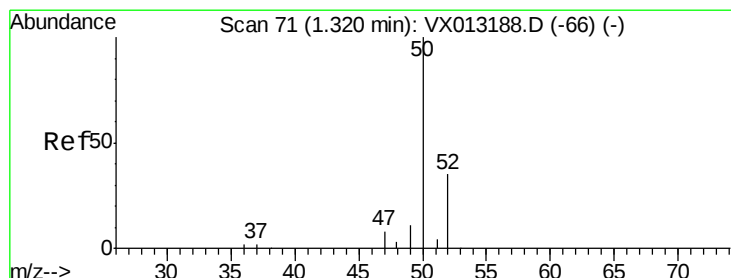
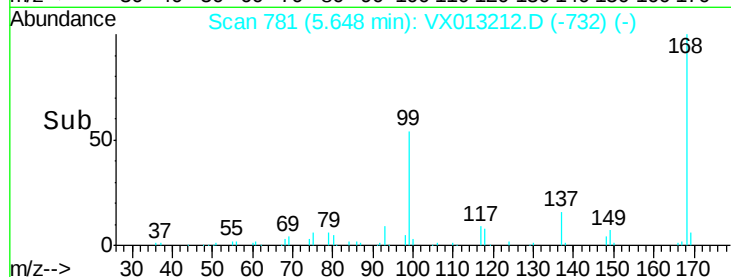
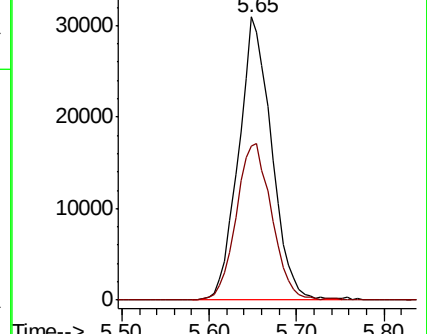
168 100

99 54.2 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 1.081 ug/l

RT: 1.33 min Scan# 72

Delta R.T. 0.01 min

Lab File: VX013212.D

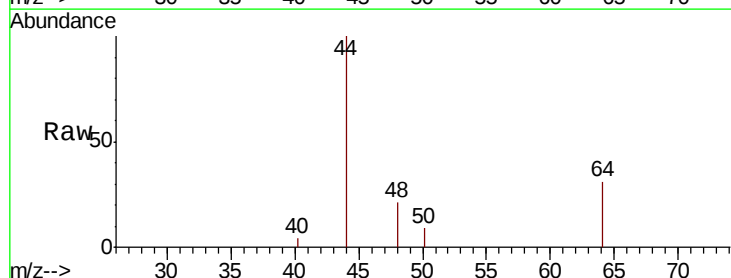
Acq: 24 Oct 2019 15:29

Tgt Ion: 50 Resp: 142

Ion Ratio Lower Upper

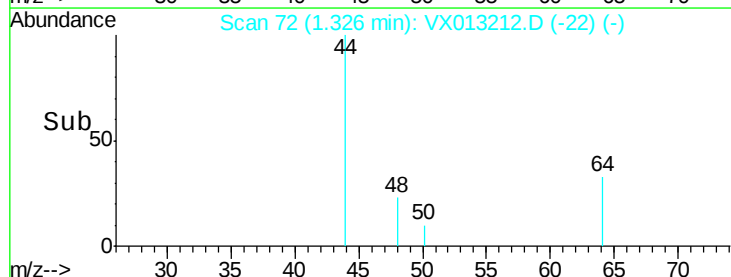
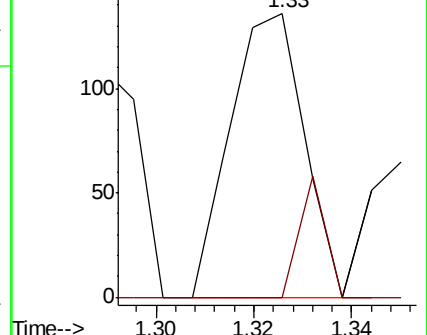
50 100

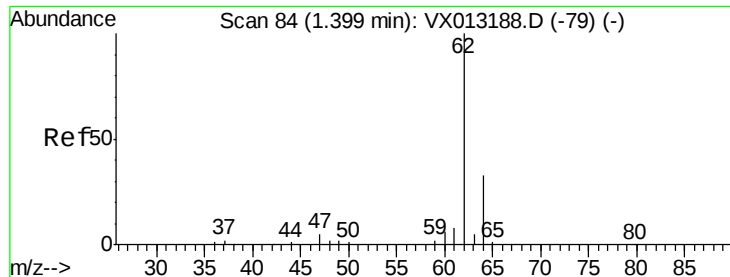
52 0.0 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.903 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

Instrument :

MSVOA_X

ClientSampleID :

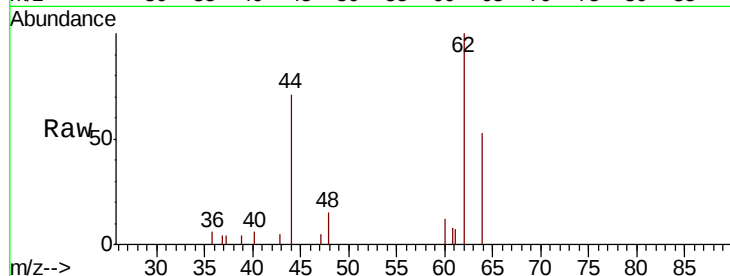
S32-0670DL

Tot Ion: 62 Resp: 1328

Ion Ratio Lower Upper

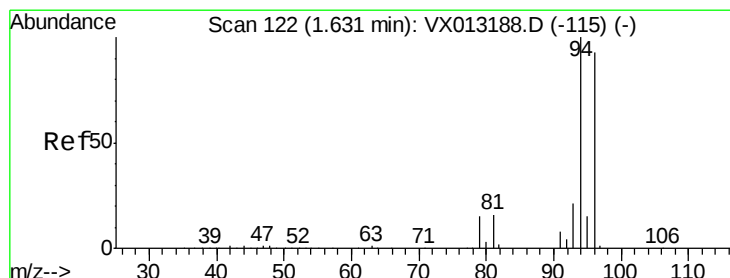
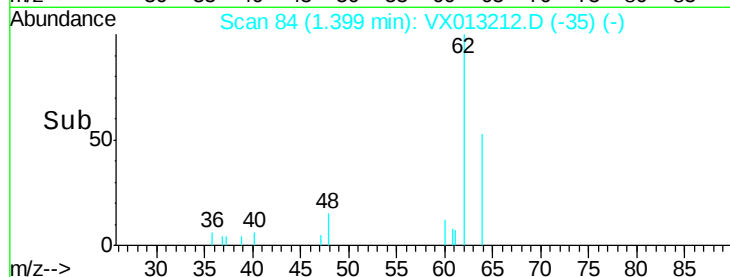
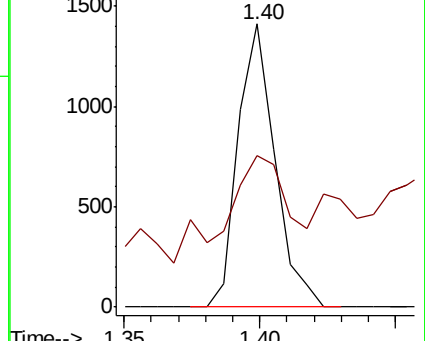
62 100

64 22.5 26.4 39.6#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.365 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013212.D

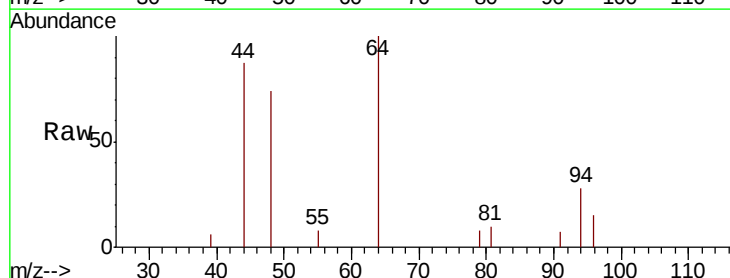
Acq: 24 Oct 2019 15:29

Tgt Ion: 94 Resp: 285

Ion Ratio Lower Upper

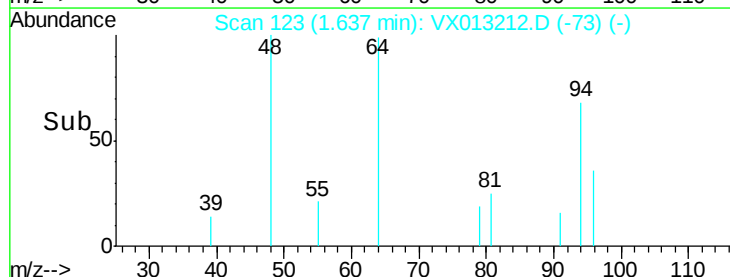
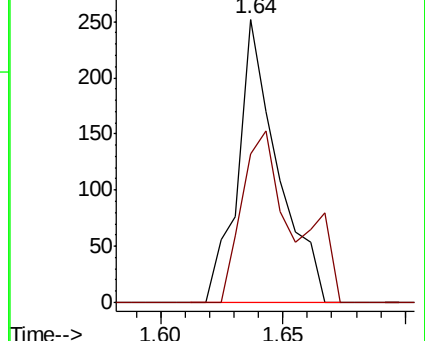
94 100

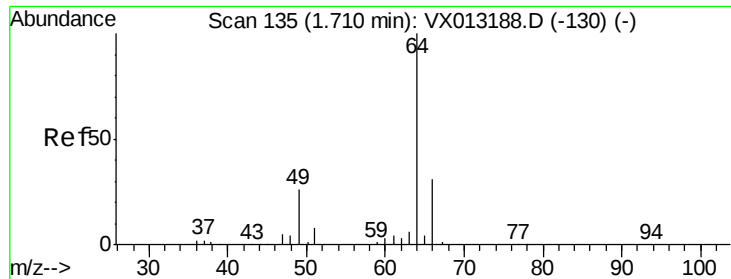
96 52.4 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

Instrument :

MSVOA_X

ClientSampled :

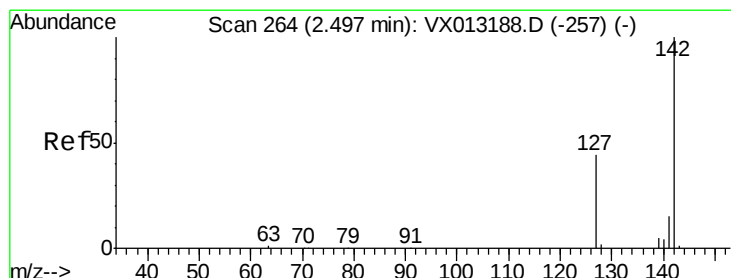
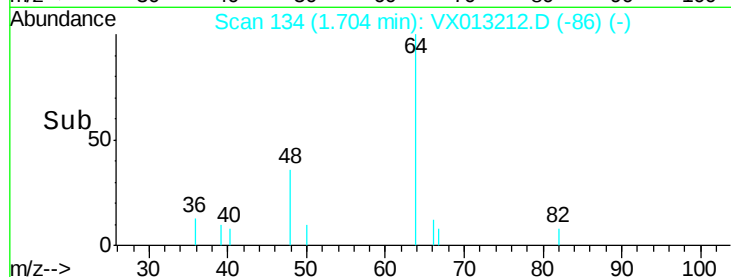
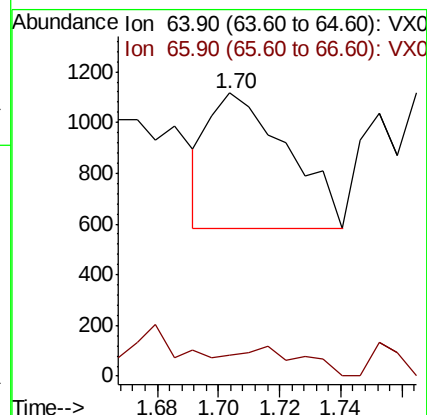
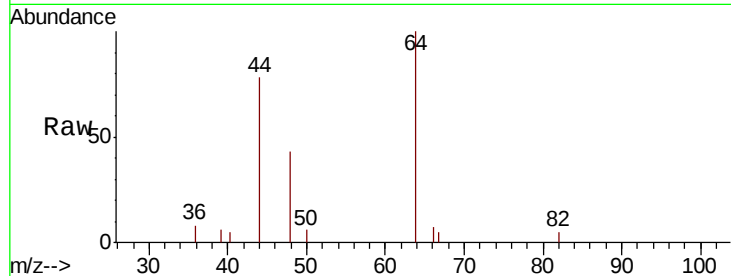
S32-0670DL

Tot Ion: 64 Resp: 944

Ion Ratio Lower Upper

64 100

66 15.6 25.0 37.6#



#10

Methyl Iodide

Concen: 3.643 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

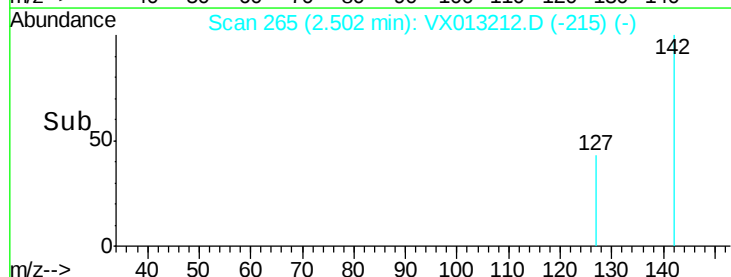
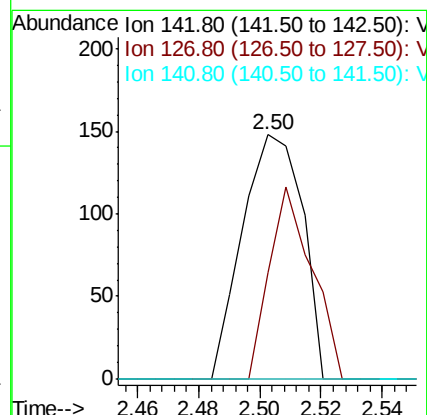
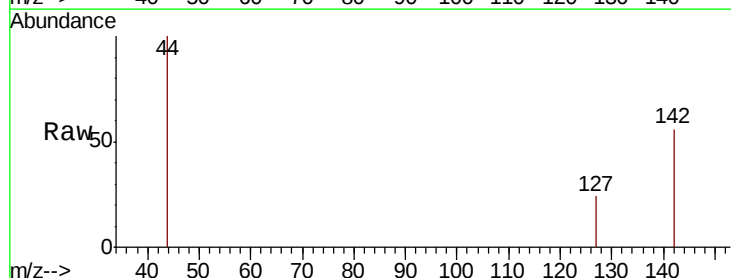
Tgt Ion: 142 Resp: 201

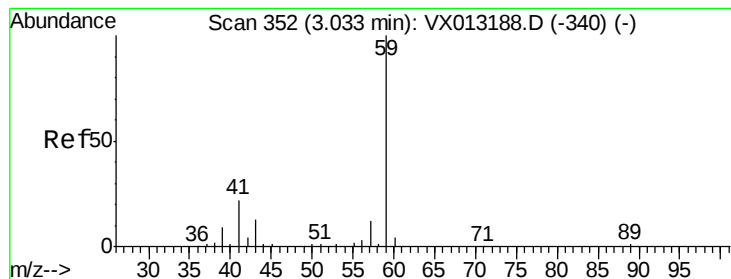
Ion Ratio Lower Upper

142 100

127 56.2 35.6 53.4#

141 0.0 11.6 17.4#



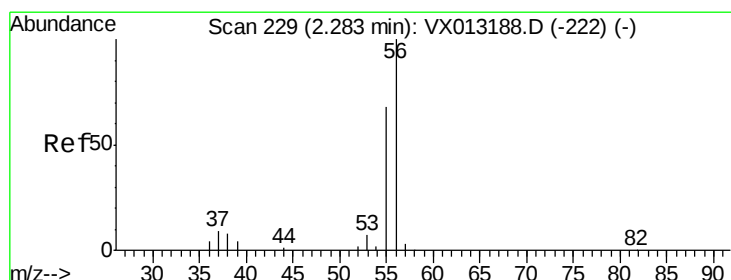
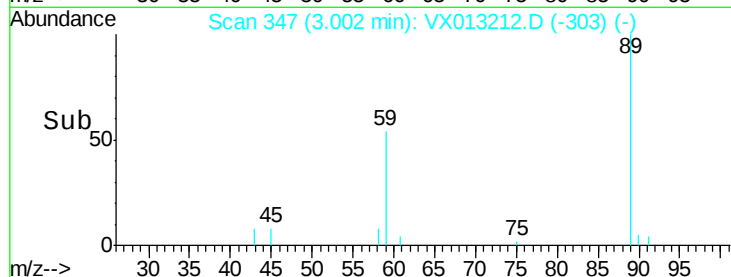
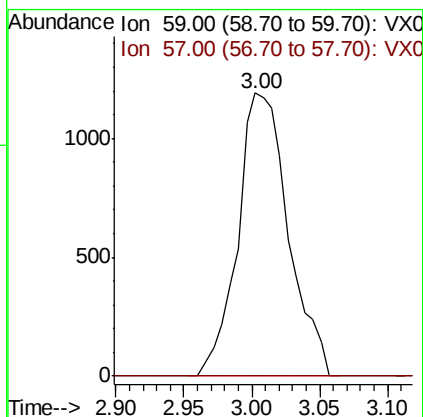
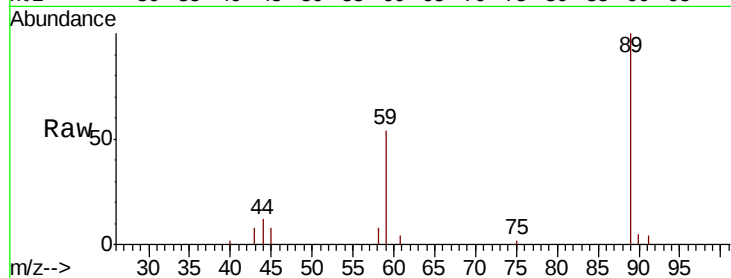


#11

Tert butyl alcohol
 Concen: 7.366 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.03 min
 Lab File: VX013212.D
 Acq: 24 Oct 2019 15:29

Instrument :
 MSVOA_X
 ClientSampled :
 S32-0670DL

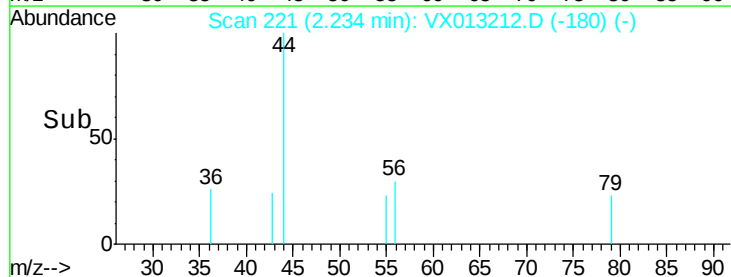
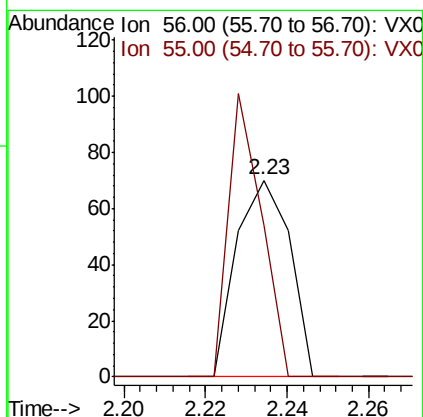
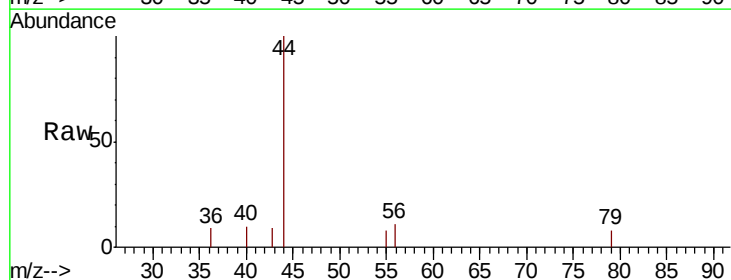
Tot Ion: 59 Resp: 3087
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

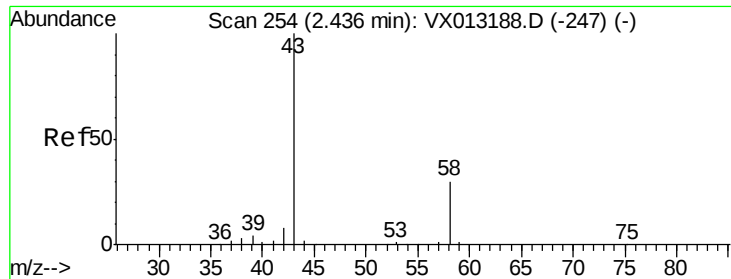


#13

Acrolein
 Concen: 0.322 ug/l
 RT: 2.23 min Scan# 221
 Delta R.T. -0.05 min
 Lab File: VX013212.D
 Acq: 24 Oct 2019 15:29

Tgt Ion: 56 Resp: 64
 Ion Ratio Lower Upper
 56 100
 55 89.1 58.9 88.3#





#16

Acetone

Concen: 1.145 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

Instrument :

MSVOA_X

ClientSampled :

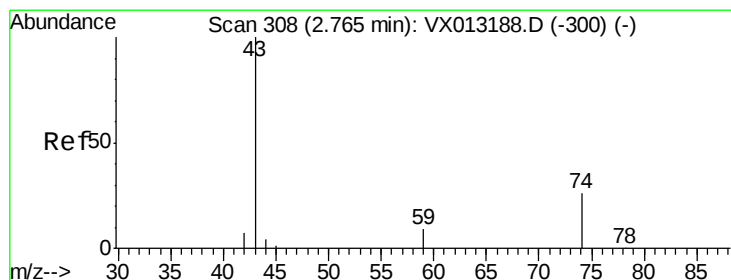
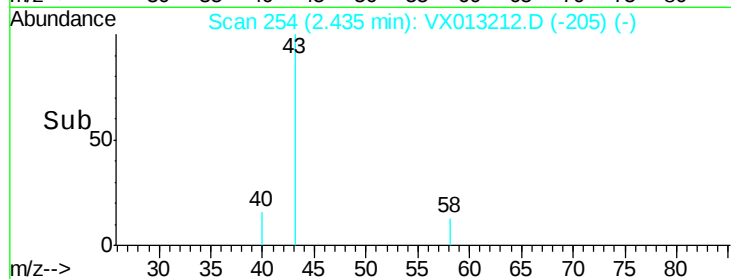
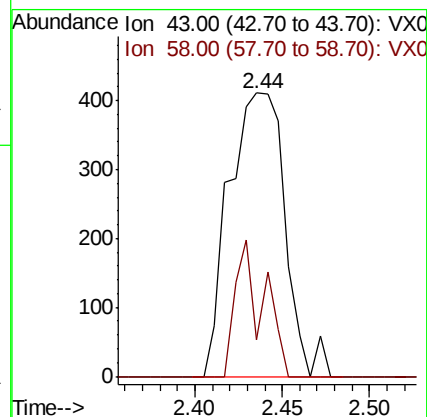
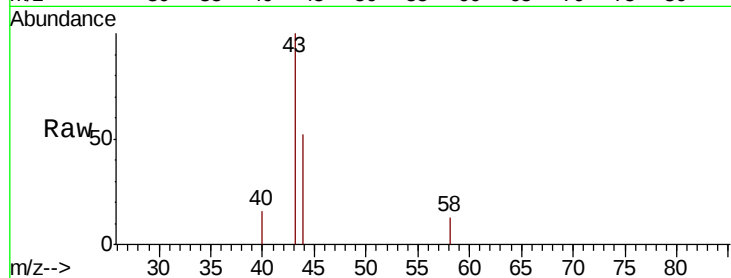
S32-0670DL

Tot Ion: 43 Resp: 914

Ion Ratio Lower Upper

43 100

58 12.9 23.8 35.6#



#18

Methyl Acetate

Concen: 1.014 ug/l

RT: 2.60 min Scan# 281

Delta R.T. -0.16 min

Lab File: VX013212.D

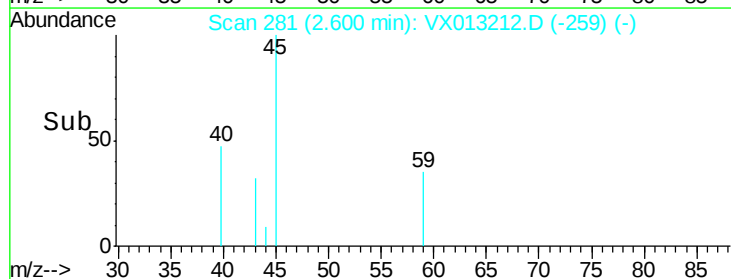
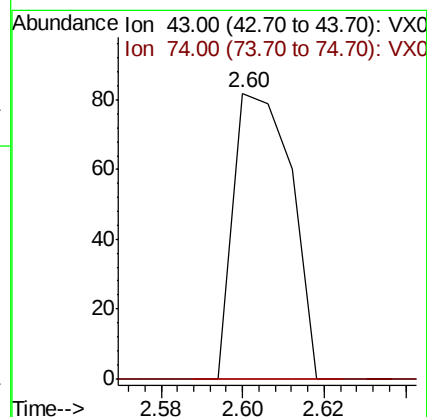
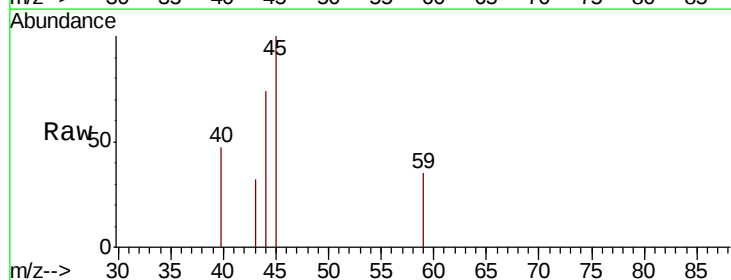
Acq: 24 Oct 2019 15:29

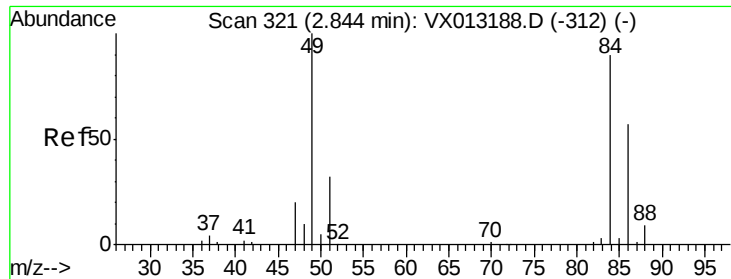
Tgt Ion: 43 Resp: 81

Ion Ratio Lower Upper

43 100

74 0.0 20.9 31.3#



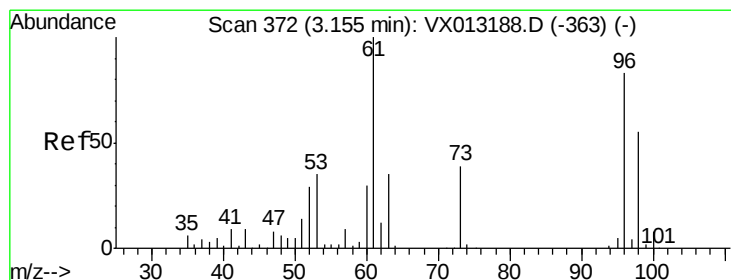
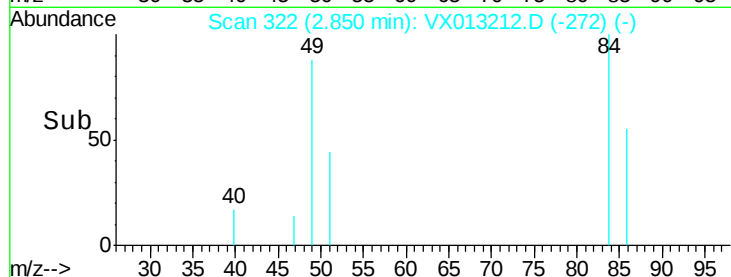
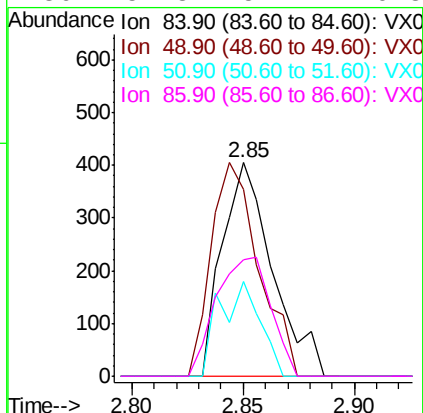
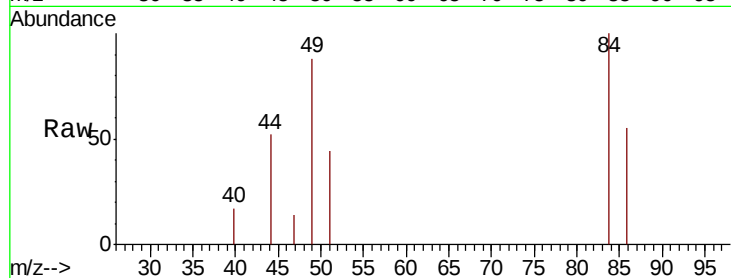


#20
Methylene Chloride
Concen: 0.712 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013212.D
Acq: 24 Oct 2019 15:29

Instrument :
MSVOA_X
ClientSampled :
S32-0670DL

Tot Ion: 84 Resp: 636

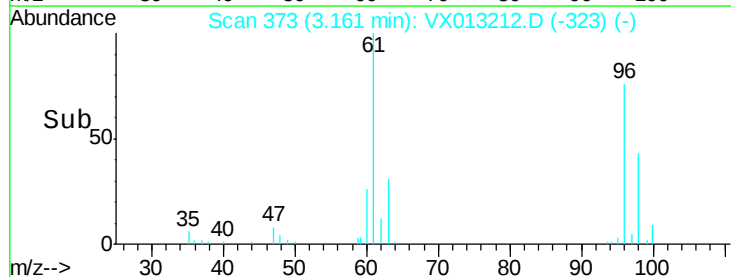
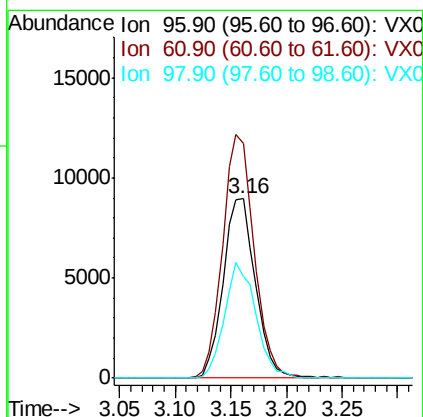
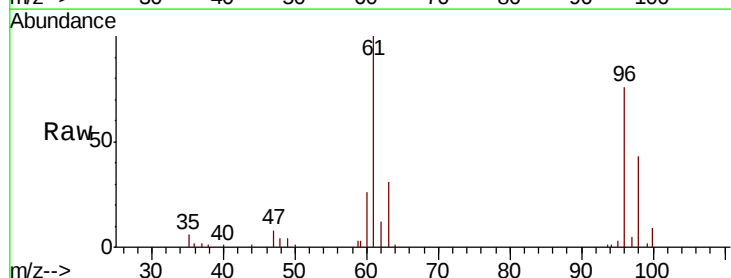
Ion	Ratio	Lower	Upper
84	100		
49	87.7	89.2	133.8#
51	44.4	28.8	43.2#
86	54.8	51.2	76.8

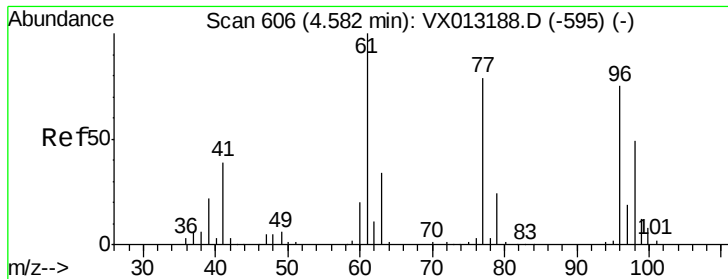


#21
trans-1,2-Dichloroethene
Concen: 12.893 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX013212.D
Acq: 24 Oct 2019 15:29

Tgt Ion: 96 Resp: 18003

Ion	Ratio	Lower	Upper
96	100		
61	130.9	96.9	145.3
98	56.7	53.0	79.4



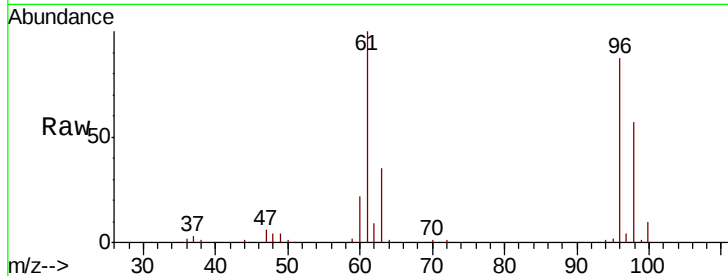


#27

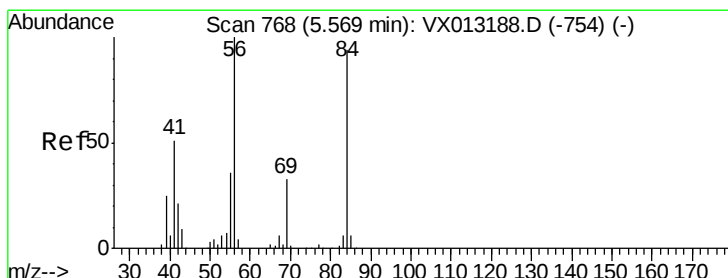
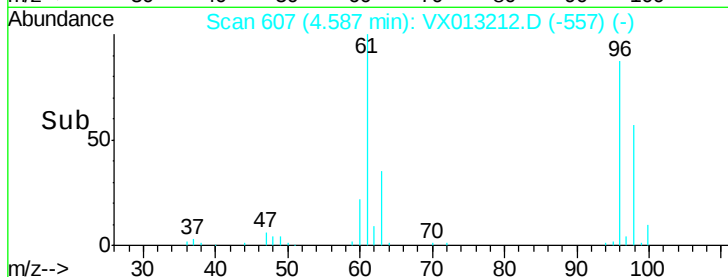
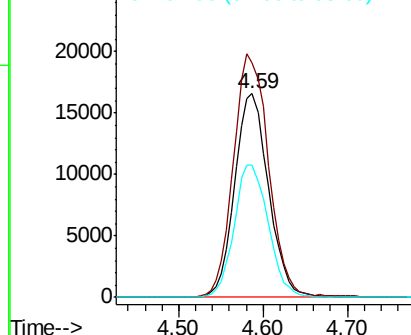
cis-1,2-Dichloroethene
 Concen: 26.662 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX013212.D
 Acq: 24 Oct 2019 15:29

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0670DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	124.5	0.0	290.4
98	65.5	0.0	130.4



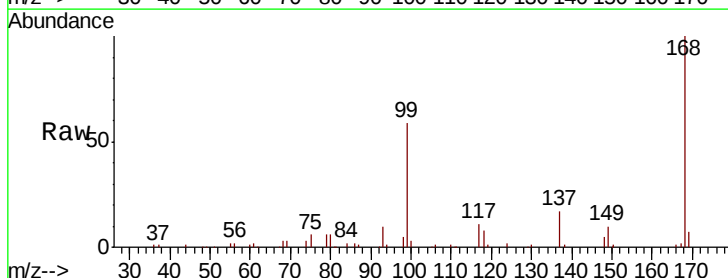
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



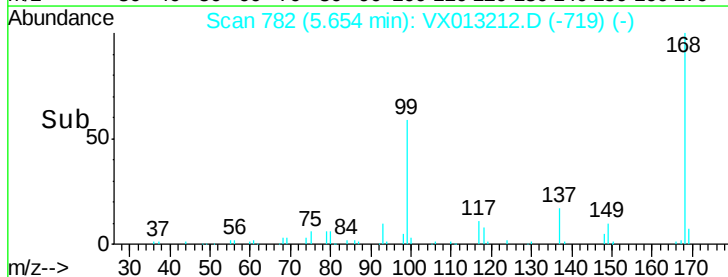
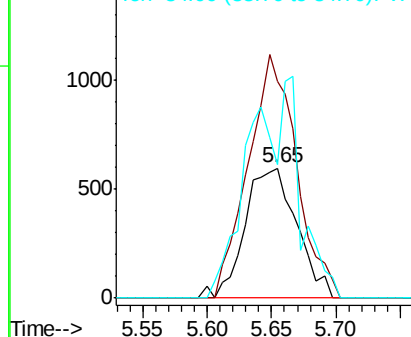
#31

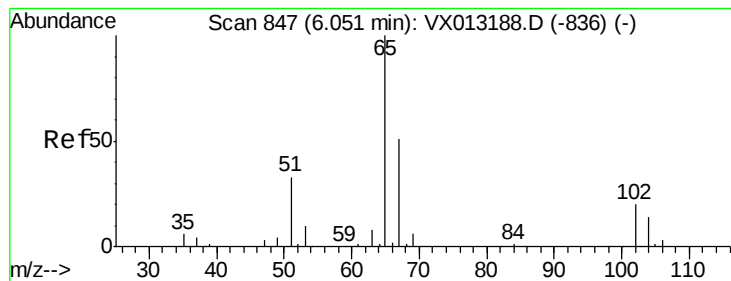
Cyclohexane
 Concen: 0.760 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.08 min
 Lab File: VX013212.D
 Acq: 24 Oct 2019 15:29

Tgt Ion	Ratio	Lower	Upper
56	100		
69	166.8	26.3	39.5#
84	103.0	73.8	110.6



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.516 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

Instrument :

MSVOA_X

ClientSampleId :

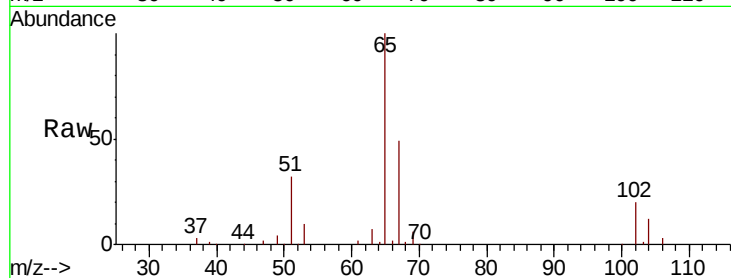
S32-0670DL

Tot Ion: 65 Resp: 87297

Ion Ratio Lower Upper

65 100

67 50.1 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

40000

30000

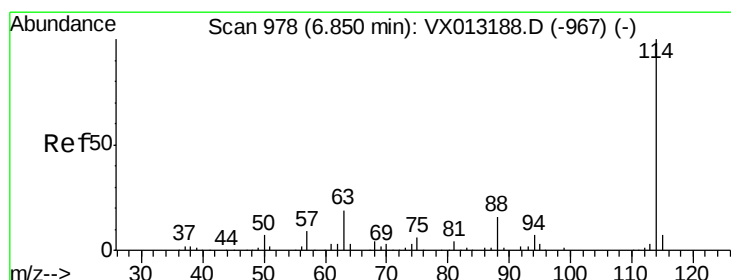
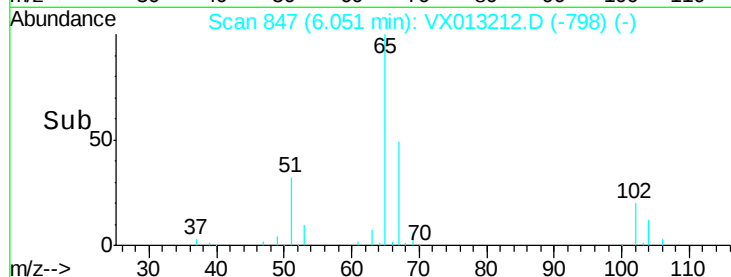
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

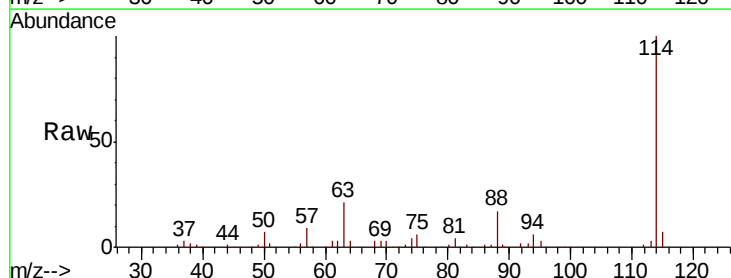
Tgt Ion: 114 Resp: 119502

Ion Ratio Lower Upper

114 100

63 20.9 0.0 39.0

88 17.2 0.0 32.0



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

6.85

60000

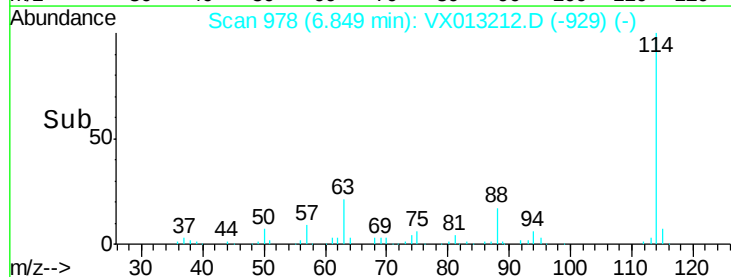
40000

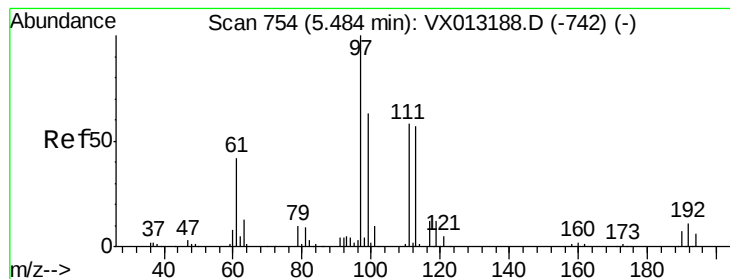
20000

0

Time-->

6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 50.125 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

Instrument :

MSVOA_X

ClientSampleId :

S32-0670DL

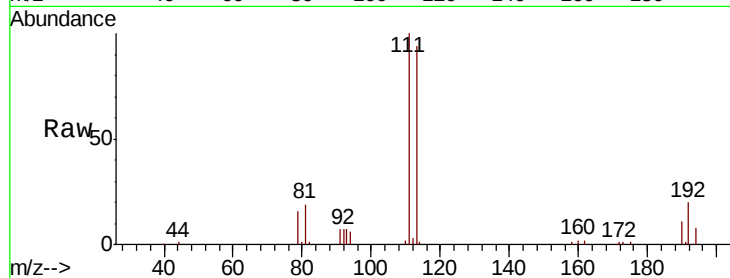
Tot Ion:113 Resp: 66797

Ion Ratio Lower Upper

113 100

111 103.3 80.3 120.5

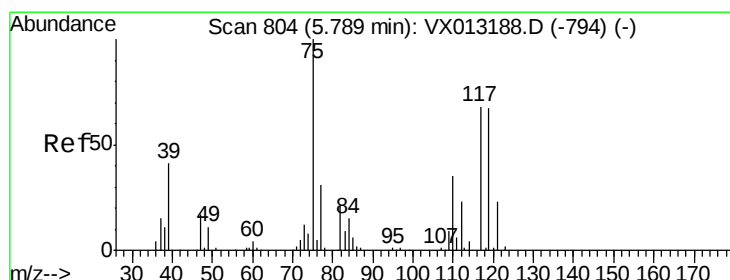
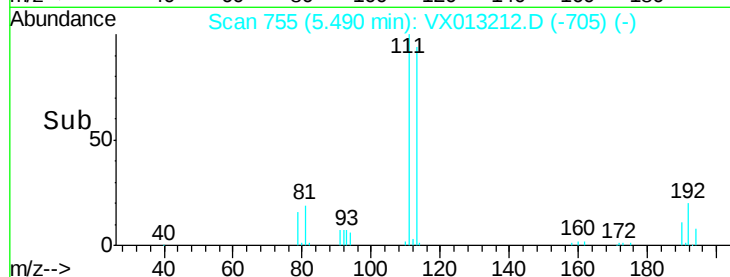
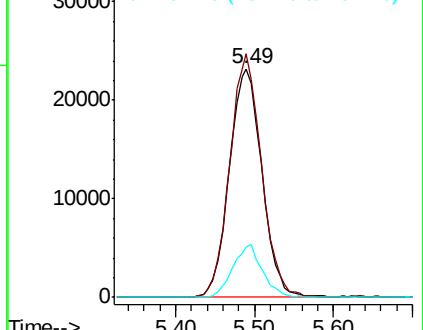
192 20.7 15.9 23.9



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: 2.981 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

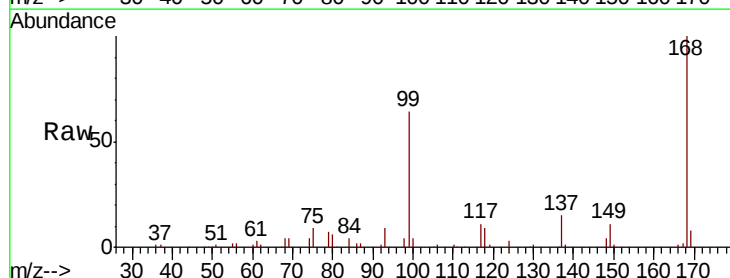
Tgt Ion: 75 Resp: 6109

Ion Ratio Lower Upper

75 100

110 8.3 17.6 52.9#

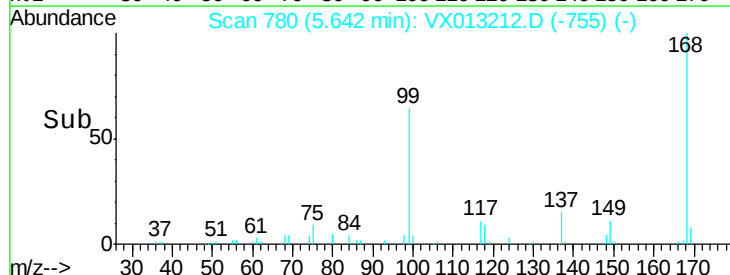
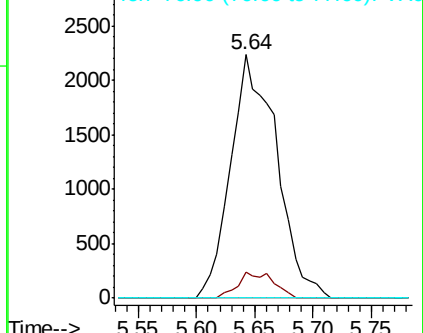
77 0.0 24.7 37.1#

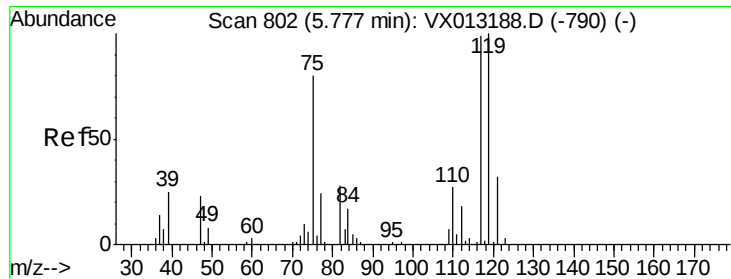


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 3.668 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

Instrument :

MSVOA_X

ClientSampled :

S32-0670DL

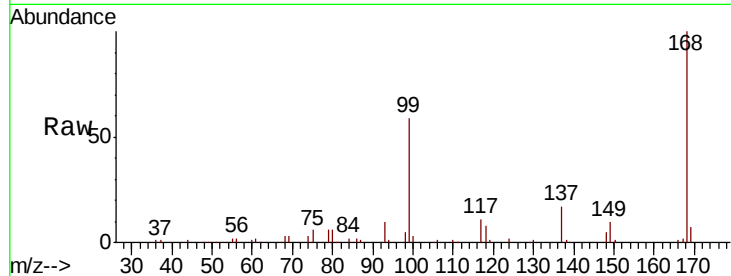
Tot Ion:117 Resp: 8101

Ion Ratio Lower Upper

117 100

119 5.4 80.1 120.1#

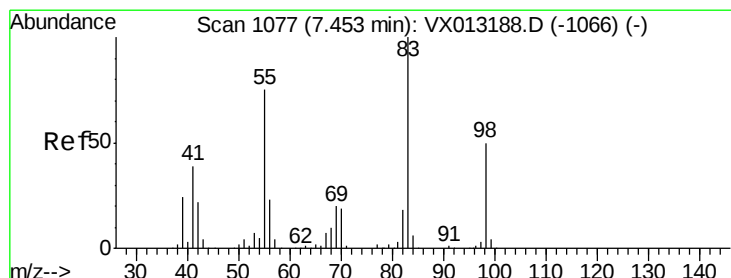
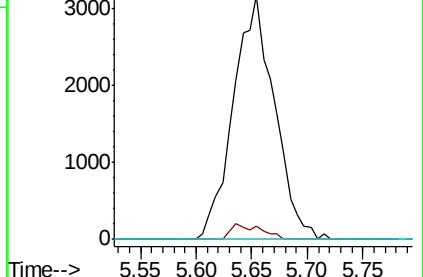
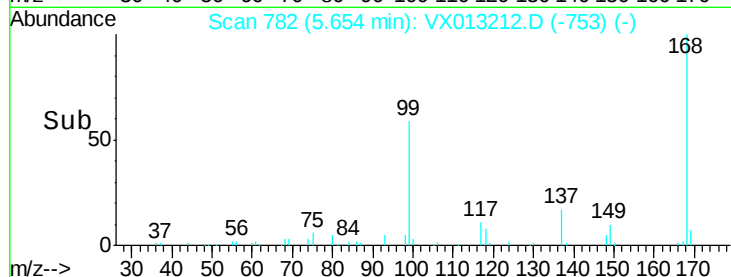
121 0.0 25.5 38.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.493 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.25 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

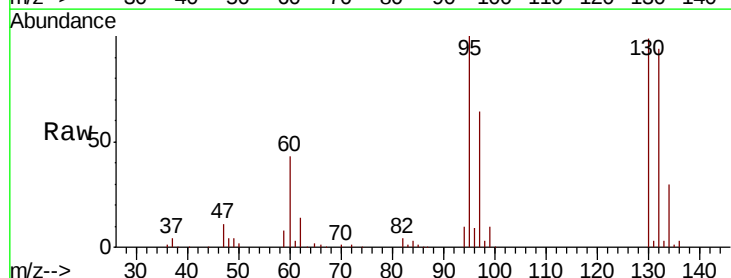
Tgt Ion: 83 Resp: 1260

Ion Ratio Lower Upper

83 100

55 0.0 60.1 90.1#

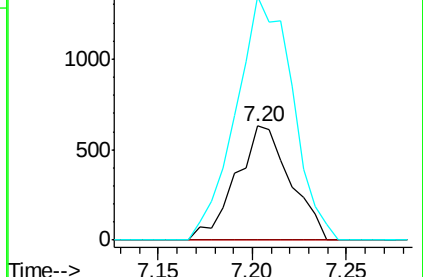
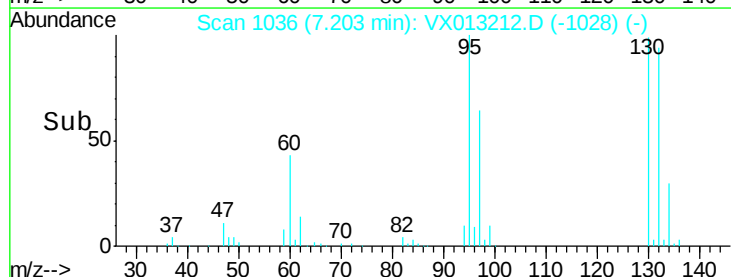
98 213.2 39.8 59.8#

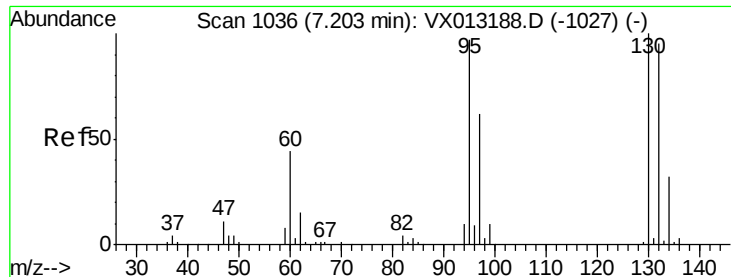


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 63.380 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

Instrument :

MSVOA_X

ClientSampleId :

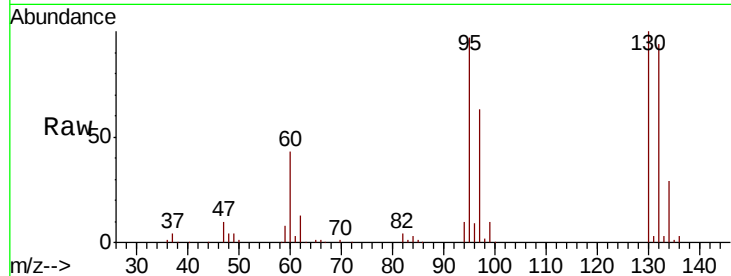
S32-0670DL

Tot Ion:130 Resp: 107972

Ion Ratio Lower Upper

130 100

95 97.2 0.0 193.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

60000

50000

40000

30000

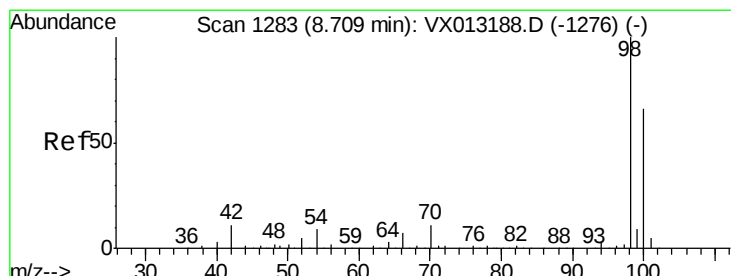
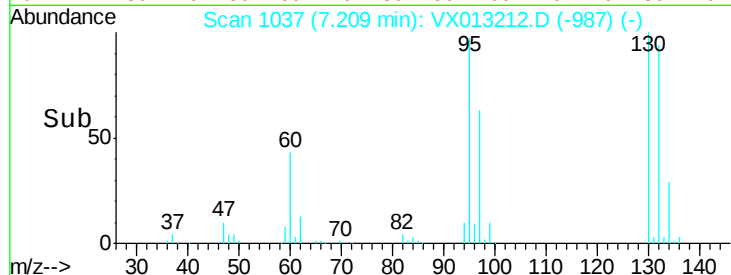
20000

10000

0

Time-->

7.10 7.15 7.20 7.25 7.30



#50

Toluene-d8

Concen: 48.936 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013212.D

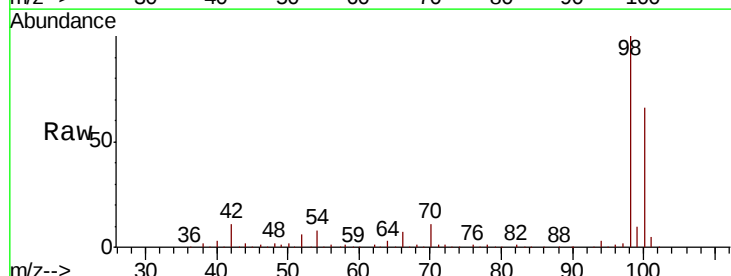
Acq: 24 Oct 2019 15:29

Tgt Ion: 98 Resp: 241675

Ion Ratio Lower Upper

98 100

100 65.9 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

150000

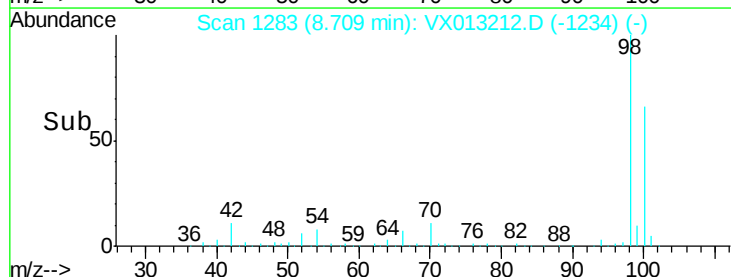
100000

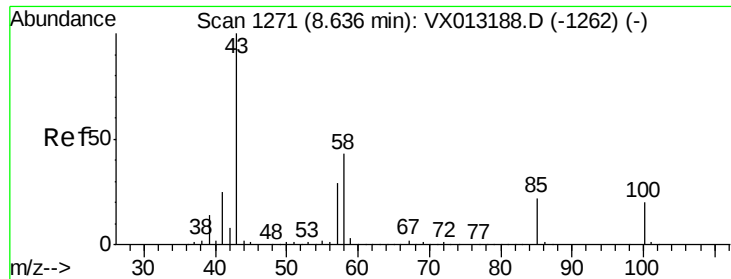
50000

0

Time-->

8.60 8.70 8.80





#51

4-Methyl-2-Pentanone

Concen: 0.466 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

Instrument :

MSVOA_X

ClientSampled :

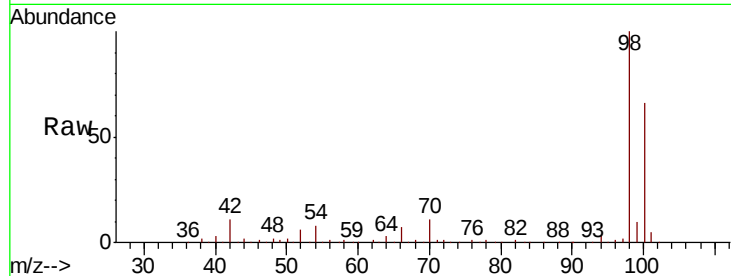
S32-0670DL

Tot Ion: 43 Resp: 940

Ion Ratio Lower Upper

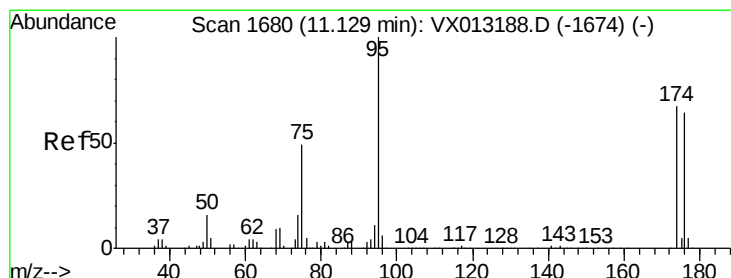
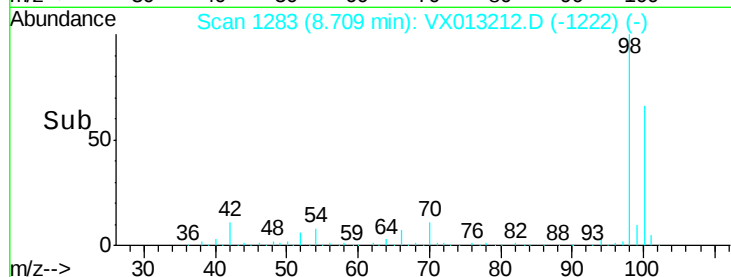
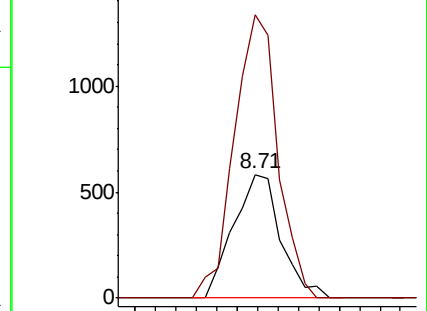
43 100

58 209.6 33.9 50.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.453 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

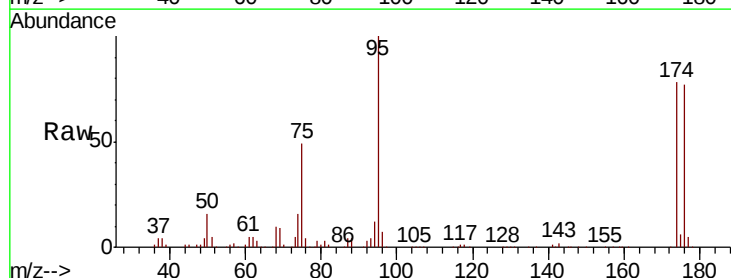
Tgt Ion: 95 Resp: 88847

Ion Ratio Lower Upper

95 100

174 74.9 0.0 152.4

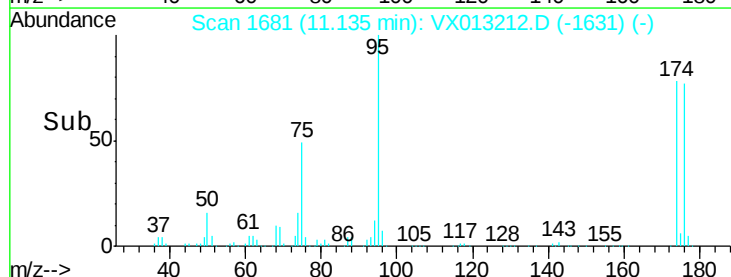
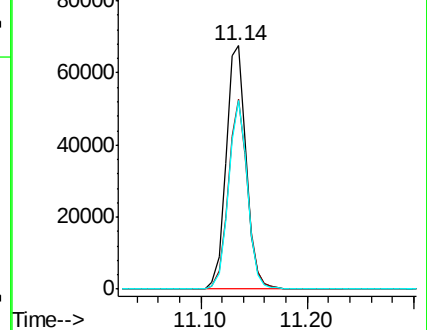
176 73.3 0.0 146.0

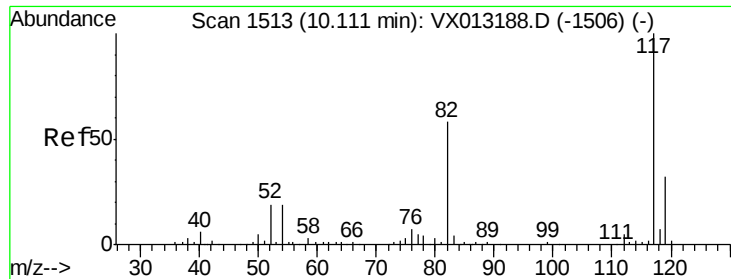


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

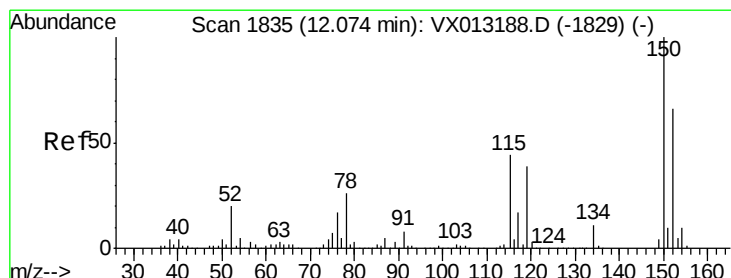
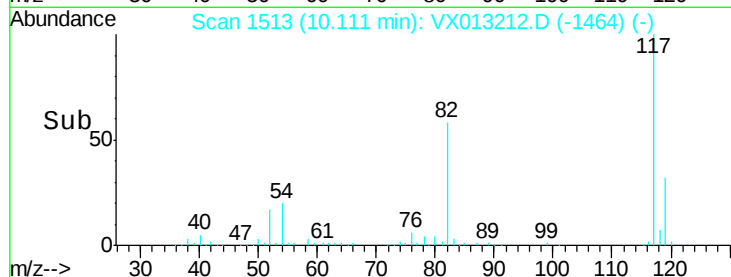
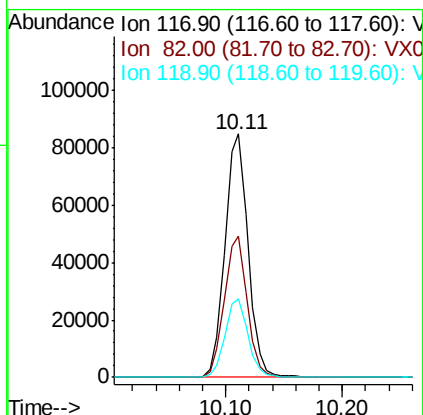
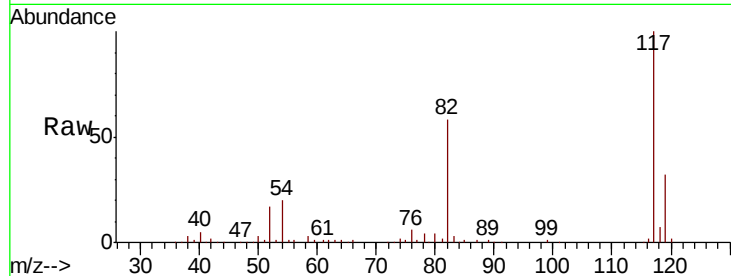




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013212.D
Acq: 24 Oct 2019 15:29

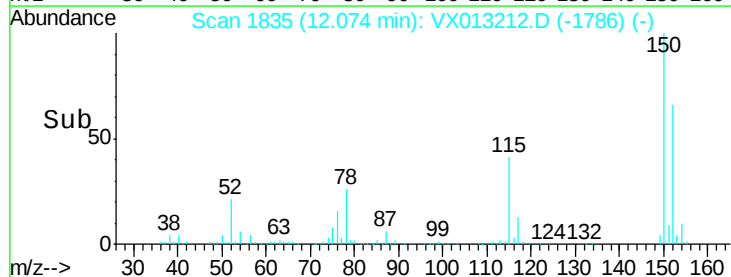
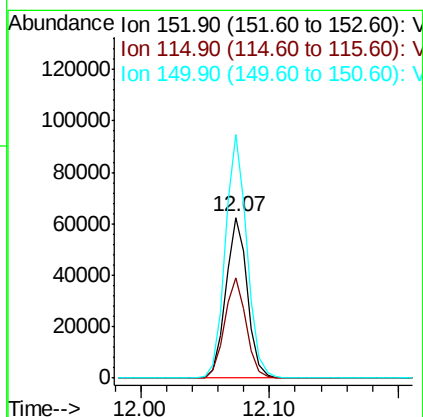
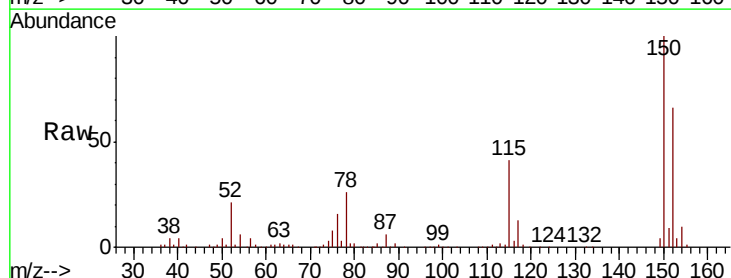
Instrument :
MSVOA_X
ClientSampled :
S32-0670DL

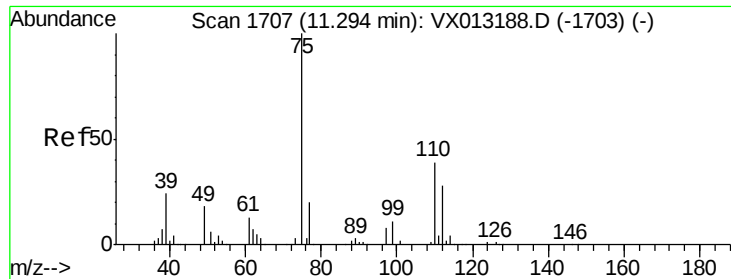
Tot Ion:117 Resp: 116649
Ion Ratio Lower Upper
117 100
82 57.9 46.5 69.7
119 32.4 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013212.D
Acq: 24 Oct 2019 15:29

Tgt Ion:152 Resp: 73563
Ion Ratio Lower Upper
152 100
115 62.3 46.6 139.8
150 152.1 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 24.353 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

Instrument :

MSVOA_X

ClientSampleId :

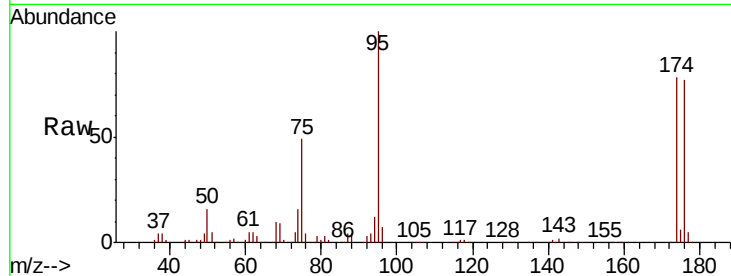
S32-0670DL

Tot Ion: 75 Resp: 43178

Ion Ratio Lower Upper

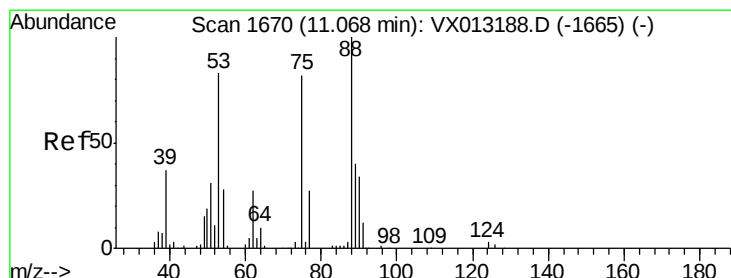
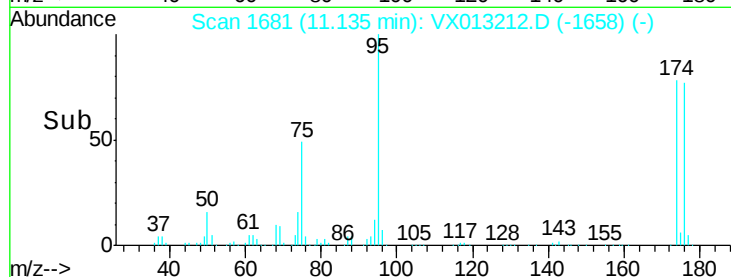
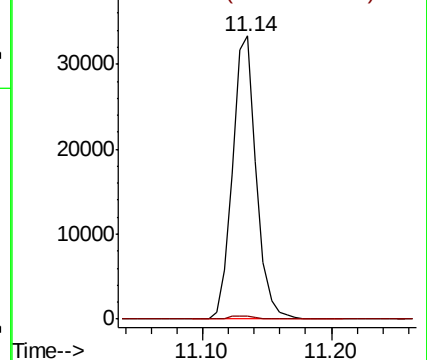
75 100

77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 66.921 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

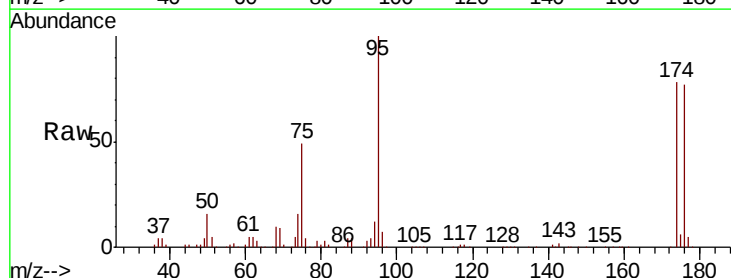
Tgt Ion: 75 Resp: 43178

Ion Ratio Lower Upper

75 100

53 0.0 77.9 116.9#

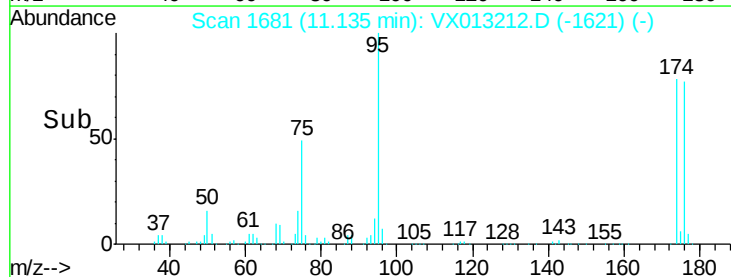
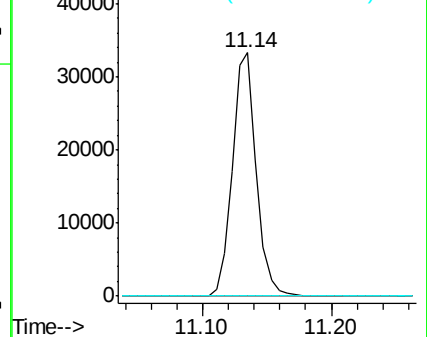
89 0.0 37.3 55.9#

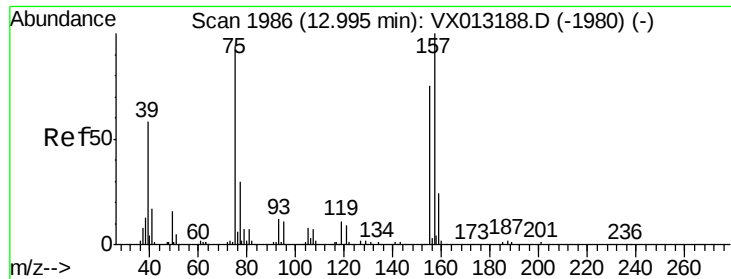


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.204 ug/l

RT: 12.81 min Scan# 1955

Delta R.T. -0.19 min

Lab File: VX013212.D

Acq: 24 Oct 2019 15:29

Instrument :

MSVOA_X

ClientSampleId :

S32-0670DL

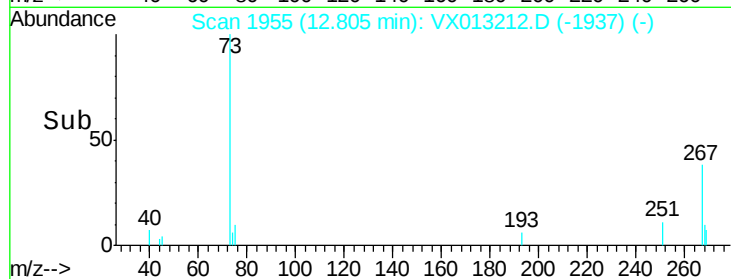
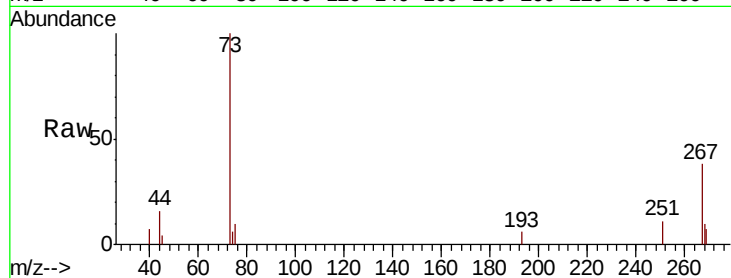
Tot Ion: 75 Resp: 103

Ion Ratio Lower Upper

75 100

155 0.0 42.8 128.4#

157 0.0 54.3 162.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

12.81

100

50

0

Time--> 12.78 12.80 12.82 12.84