

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102519\
 Data File : VX013208.D
 Acq On : 24 Oct 2019 13:56
 Operator : JC/SP
 Sample : K5532-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-TB-2019-7

Quant Time: Oct 25 01:19:50 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	96089	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	135056	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	136439	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	85434	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	99789	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	
35) Dibromofluoromethane	5.48	113	76035	50.49	ug/l	0.00
Spiked Amount			Recovery	=	100.98%	
50) Toluene-d8	8.71	98	282452	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
62) 4-Bromofluorobenzene	11.13	95	106091	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	

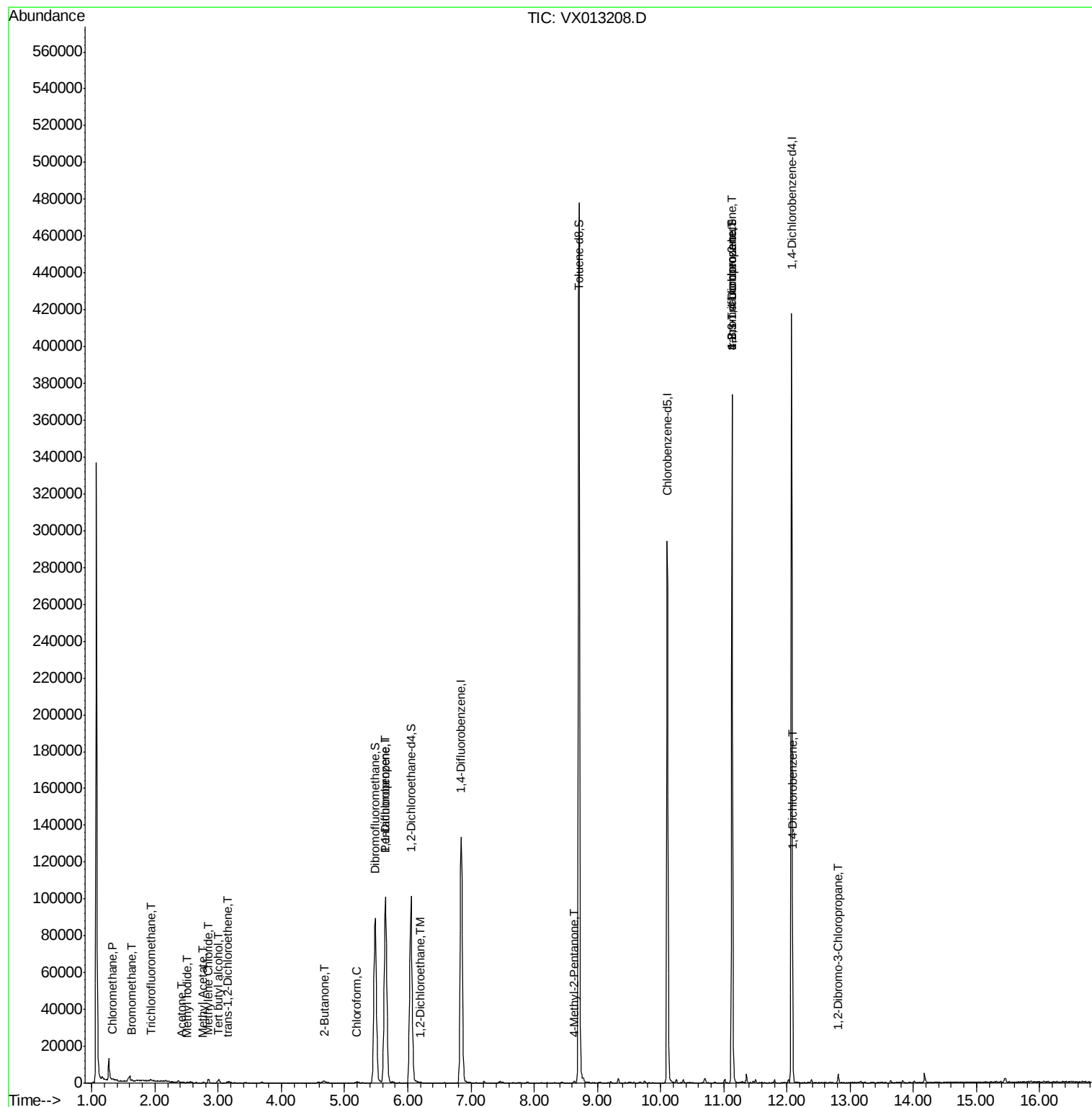
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	350	1.192	ug/l #	80
5) Bromomethane	1.64	94	336	0.363	ug/l	90
6) Chloroethane	1.73	64	180	Below Cal	#	83
7) Trichlorofluoromethane	1.92	101	467	0.467	ug/l #	58
10) Methyl Iodide	2.51	142	249	3.648	ug/l #	60
11) Tert butyl alcohol	3.00	59	1371	2.091	ug/l #	72
16) Acetone	2.42	43	474	0.501	ug/l #	85
18) Methyl Acetate	2.75	43	309	1.115	ug/l #	49
20) Methylene Chloride	2.84	84	883	0.784	ug/l #	84
21) trans-1,2-Dichloroethene	3.15	96	313	0.658	ug/l #	78
25) 2-Butanone	4.68	43	258	0.203	ug/l #	45
30) Chloroform	5.19	83	900	0.273	ug/l #	77
36) 1,1-Dichloropropene	5.64	75	7517	3.253	ug/l #	52
42) 1,2-Dichloroethane	6.18	62	610	0.238	ug/l #	75
51) 4-Methyl-2-Pentanone	8.64	43	601	0.264	ug/l	90
64) Tetrachloroethene	9.33	164	231	Below Cal	#	84
76) 1,2,3-Trichloropropane	11.13	75	53984	26.217	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	53984	72.043	ug/l #	10
88) 1,4-Dichlorobenzene	12.09	146	721	0.211	ug/l #	70
92) 1,2-Dibromo-3-Chloropropan	12.81	75	182	0.311	ug/l #	1

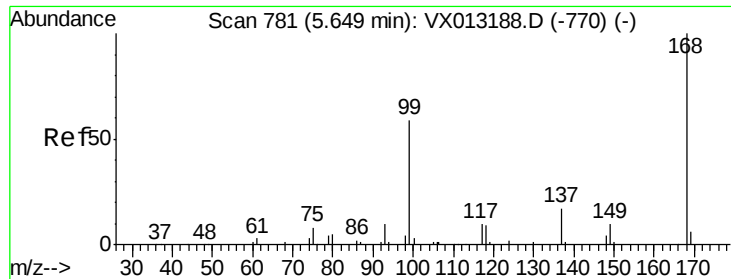
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :
S32-TB-2019-7

Quant Time: Oct 25 01:19:50 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: VX013208.D

Acq: 24 Oct 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

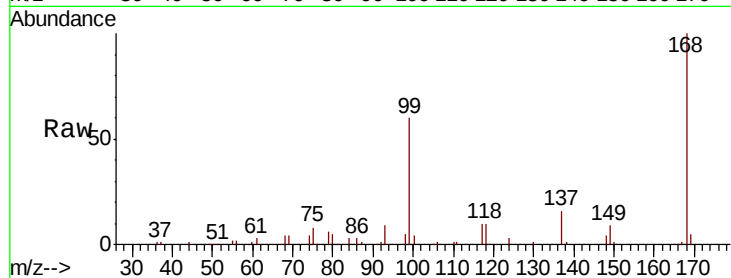
S32-TB-2019-7

Tot Ion:168 Resp: 96089

Ion Ratio Lower Upper

168 100

99 60.2 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

40000

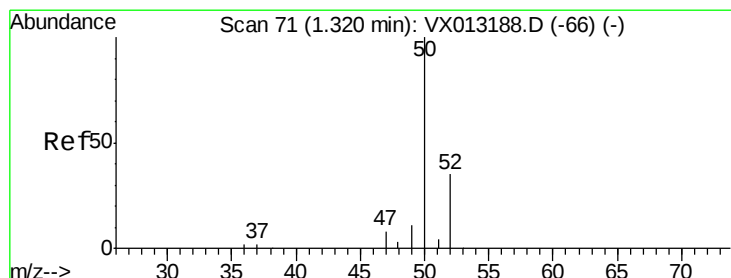
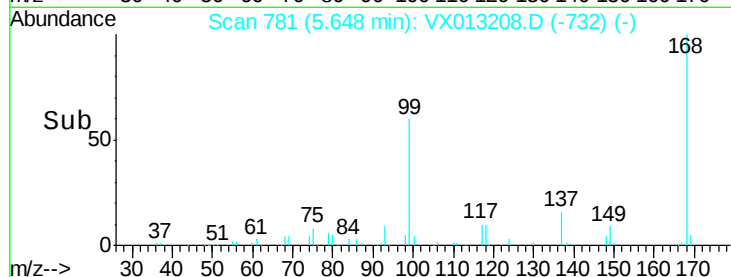
30000

20000

10000

0

Time--> 5.50 5.60 5.70



#3

Chloromethane

Concen: 1.192 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013208.D

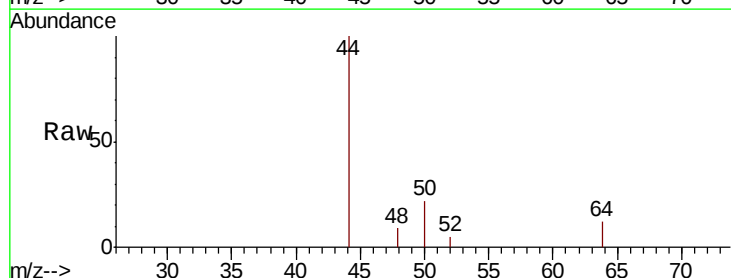
Acq: 24 Oct 2019 13:56

Tgt Ion: 50 Resp: 350

Ion Ratio Lower Upper

50 100

52 22.9 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

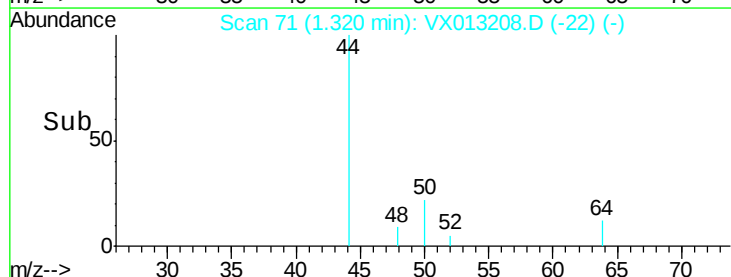
300

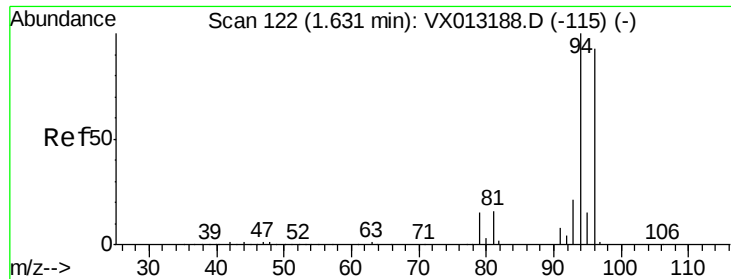
200

100

0

Time--> 1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.363 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013208.D

Acq: 24 Oct 2019 13:56

Instrument :

MSVOA_X

ClientSampled :

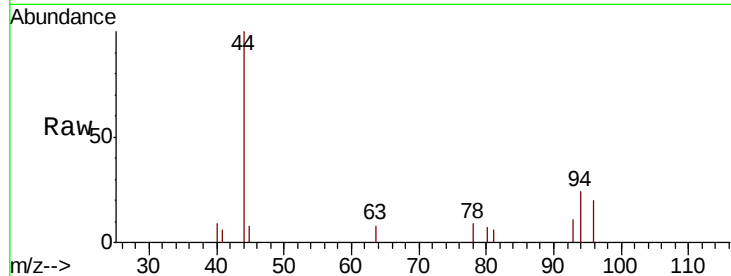
S32-TB-2019-7

Tot Ion: 94 Resp: 336

Ion Ratio Lower Upper

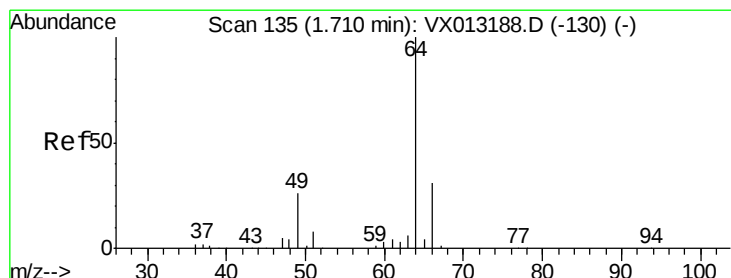
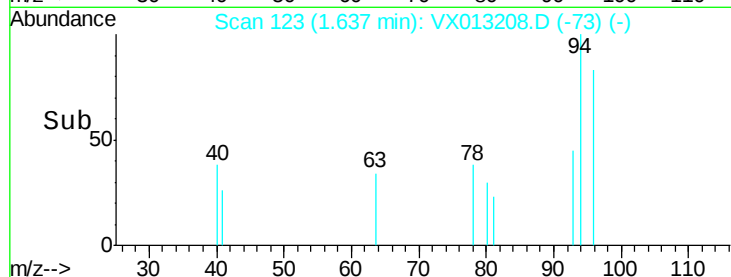
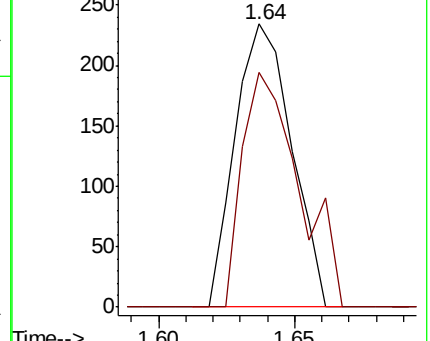
94 100

96 82.9 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: 1.73 min Scan# 138

Delta R.T. 0.02 min

Lab File: VX013208.D

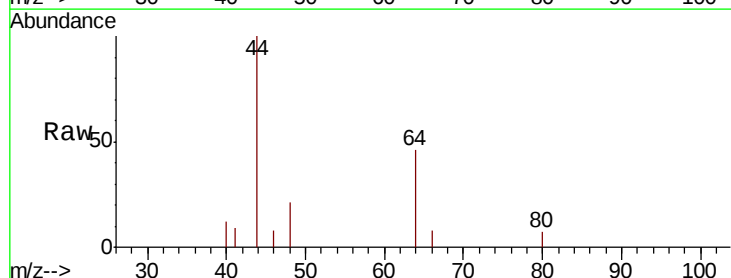
Acq: 24 Oct 2019 13:56

Tgt Ion: 64 Resp: 180

Ion Ratio Lower Upper

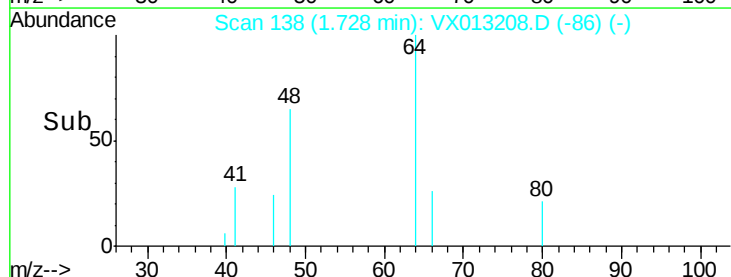
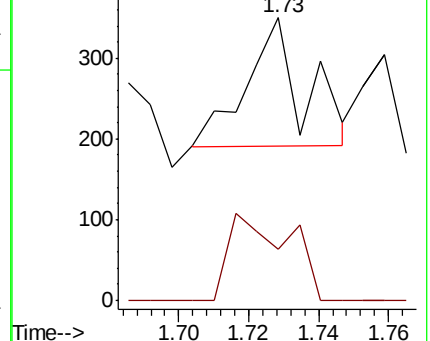
64 100

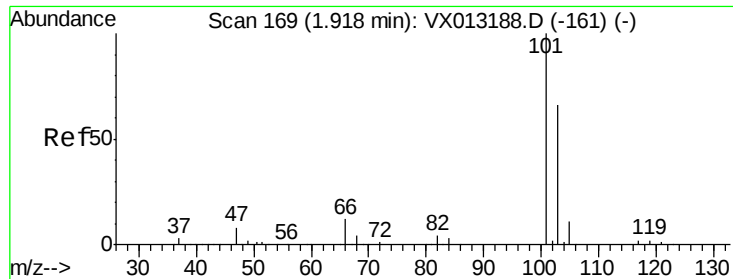
66 40.5 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



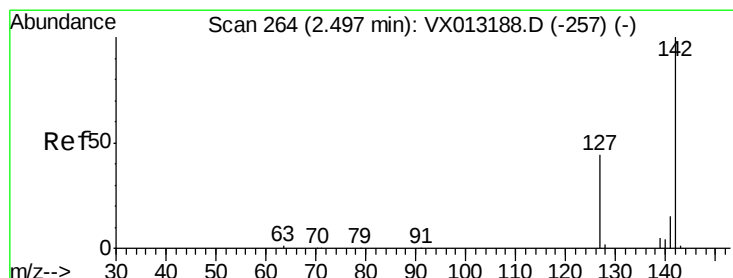
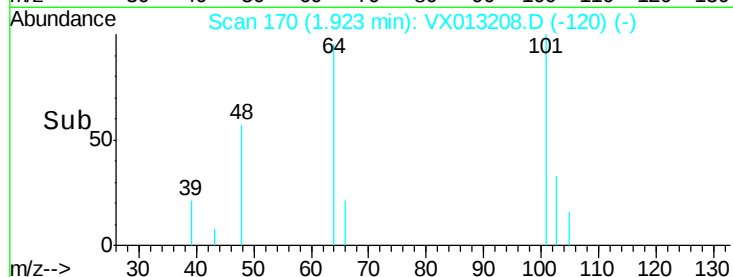
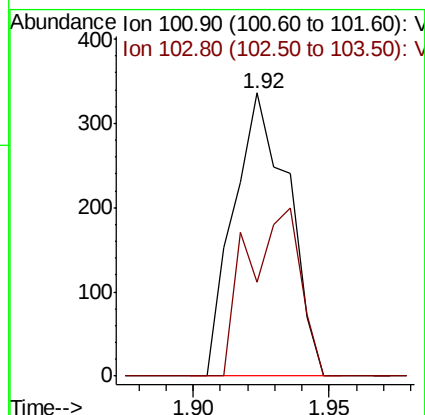
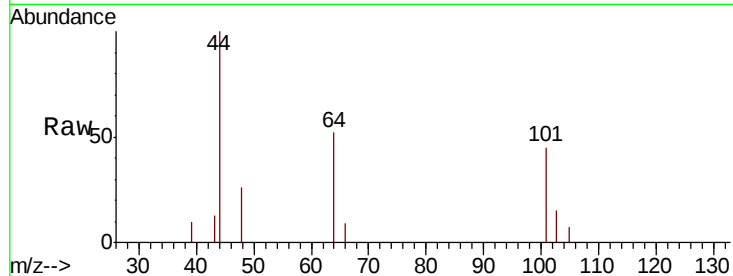


#7

Trichlorofluoromethane
 Concen: 0.467 ug/l
 RT: 1.92 min Scan# 170
 Delta R.T. 0.01 min
 Lab File: VX013208.D
 Acq: 24 Oct 2019 13:56

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-TB-2019-7

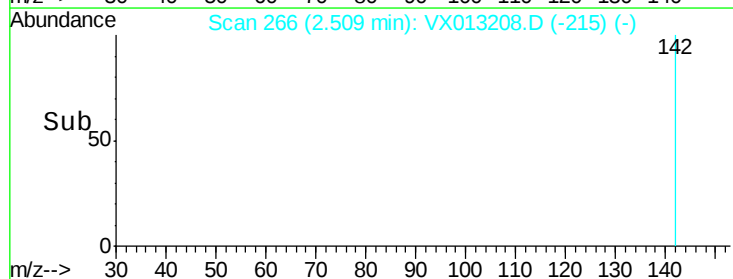
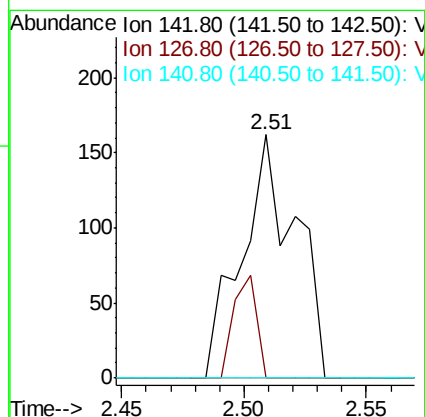
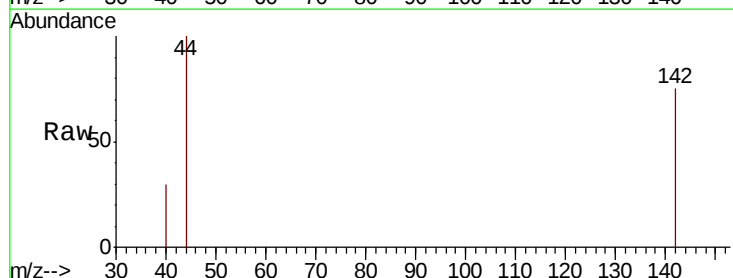
Tot Ion:101 Resp: 467
 Ion Ratio Lower Upper
 101 100
 103 33.0 53.0 79.6#

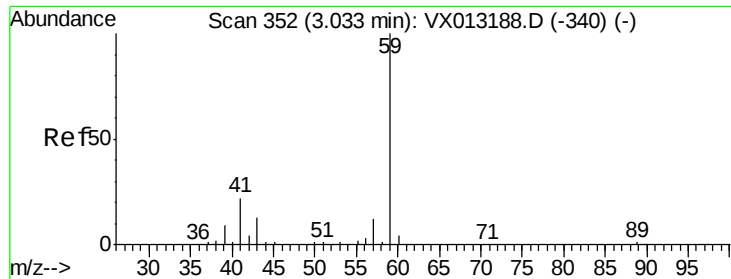


#10

Methyl Iodide
 Concen: 3.648 ug/l
 RT: 2.51 min Scan# 266
 Delta R.T. 0.01 min
 Lab File: VX013208.D
 Acq: 24 Oct 2019 13:56

Tgt Ion:142 Resp: 249
 Ion Ratio Lower Upper
 142 100
 127 17.7 35.6 53.4#
 141 0.0 11.6 17.4#

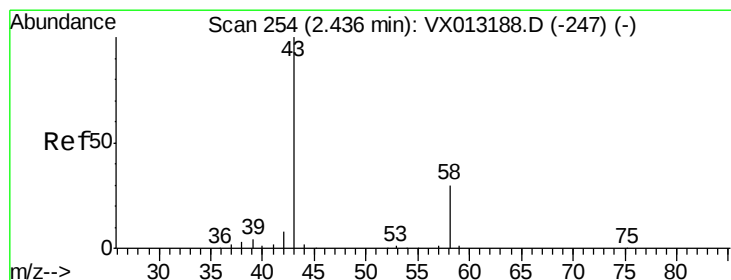
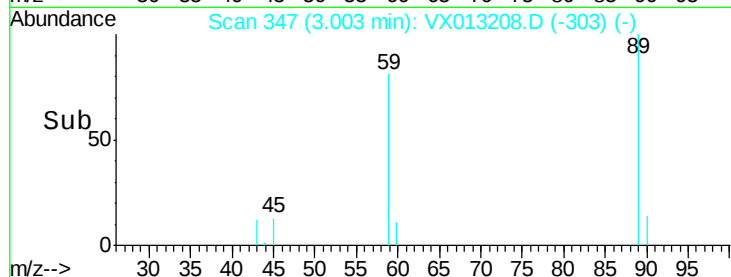
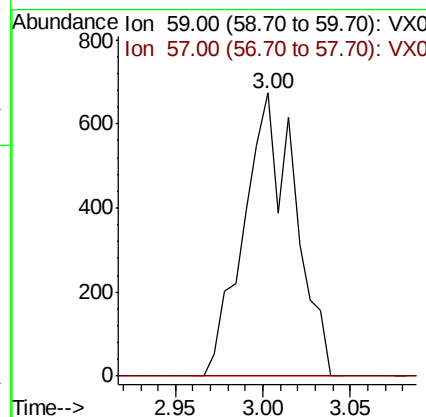
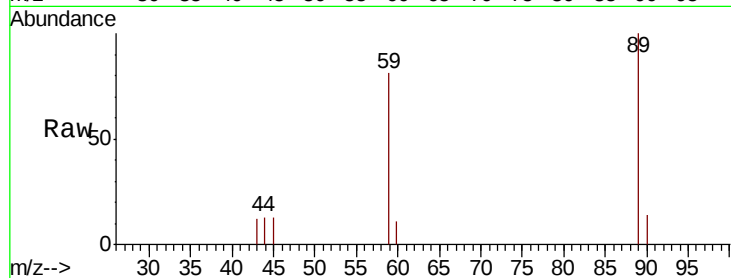




#11
Tert butyl alcohol
Concen: 2.091 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.03 min
Lab File: VX013208.D
Acq: 24 Oct 2019 13:56

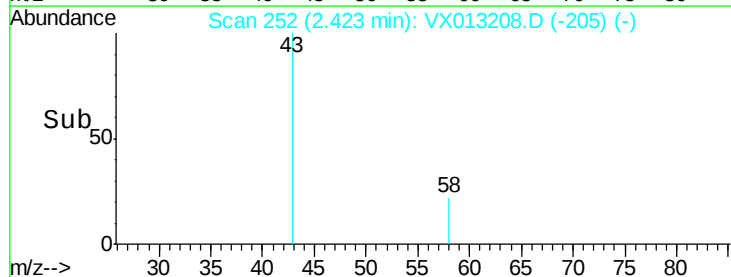
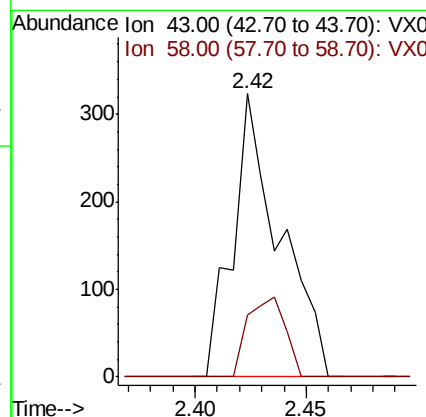
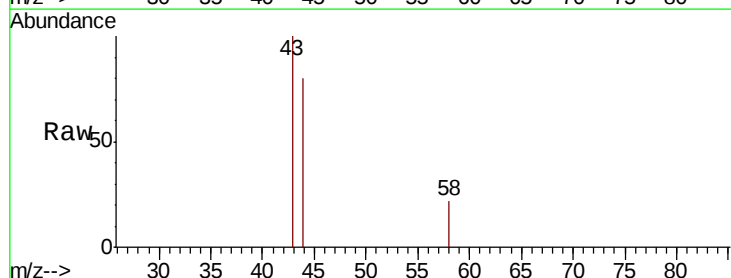
Instrument :
MSVOA_X
ClientSampleId :
S32-TB-2019-7

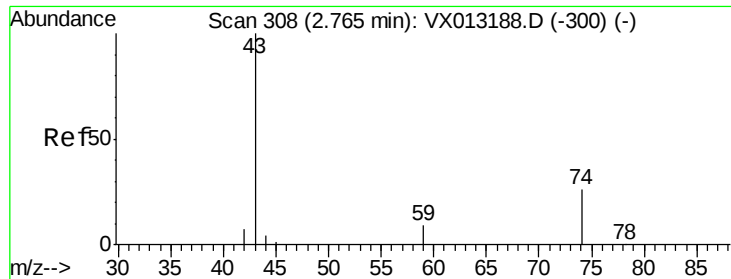
Tot Ion: 59 Resp: 1371
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 0.501 ug/l
RT: 2.42 min Scan# 252
Delta R.T. -0.01 min
Lab File: VX013208.D
Acq: 24 Oct 2019 13:56

Tgt Ion: 43 Resp: 474
Ion Ratio Lower Upper
43 100
58 21.7 23.8 35.6#

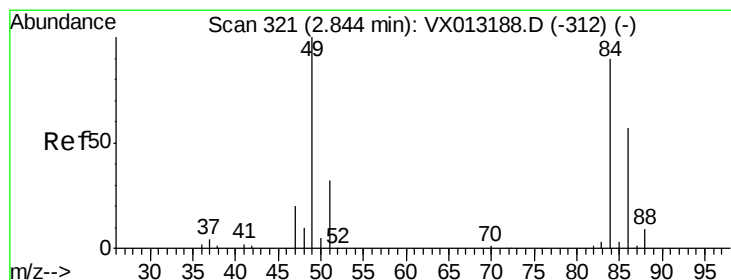
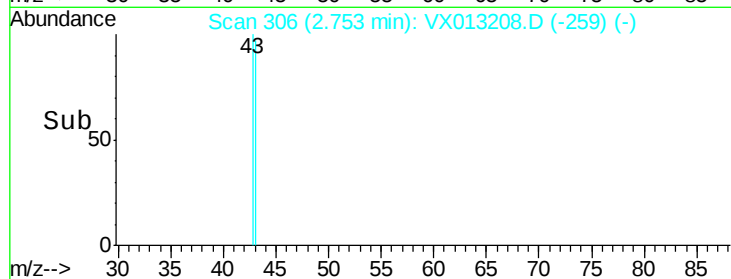
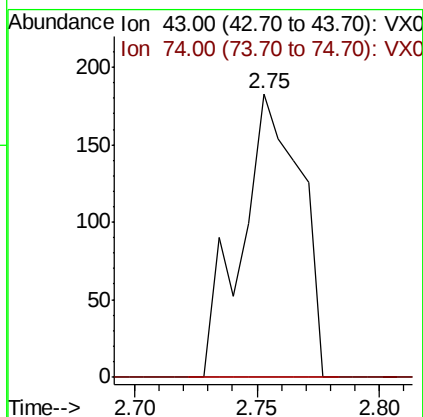
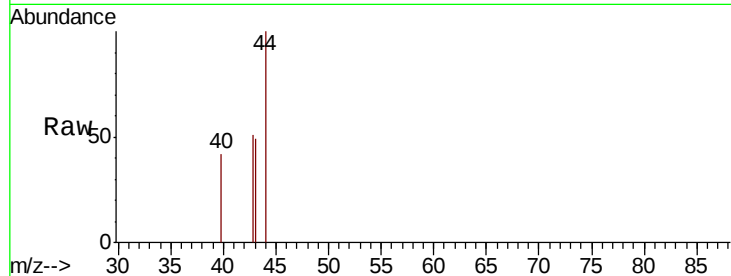




#18
Methvl Acetate
Concen: 1.115 ug/l
RT: 2.75 min Scan# 306
Delta R.T. -0.01 min
Lab File: VX013208.D
Acq: 24 Oct 2019 13:56

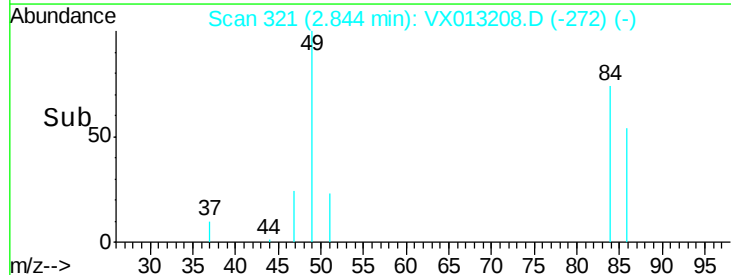
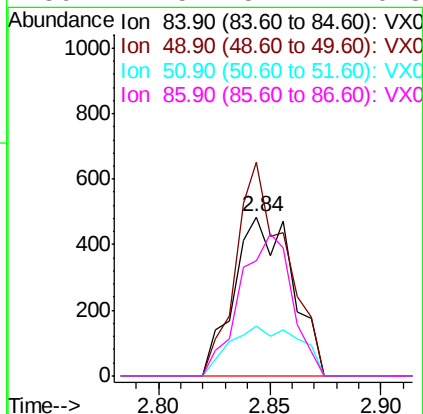
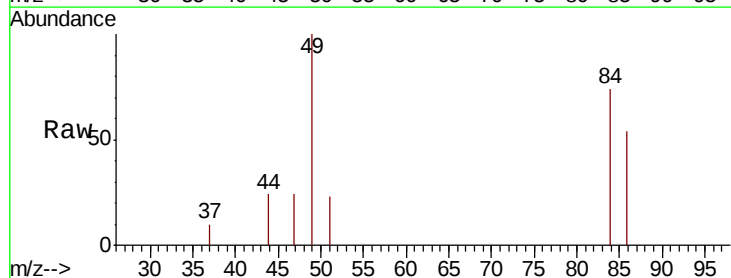
Instrument :
MSVOA_X
ClientSampleId :
S32-TB-2019-7

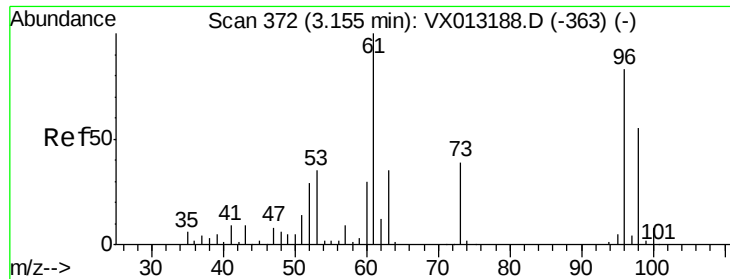
Tot Ion: 43 Resp: 309
Ion Ratio Lower Upper
43 100
74 0.0 20.9 31.3#



#20
Methylene Chloride
Concen: 0.784 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX013208.D
Acq: 24 Oct 2019 13:56

Tgt Ion: 84 Resp: 883
Ion Ratio Lower Upper
84 100
49 134.5 89.2 133.8#
51 31.2 28.8 43.2
86 72.5 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 0.658 ug/l

RT: 3.15 min Scan# 371

Delta R.T. -0.01 min

Lab File: VX013208.D

Acq: 24 Oct 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

S32-TB-2019-7

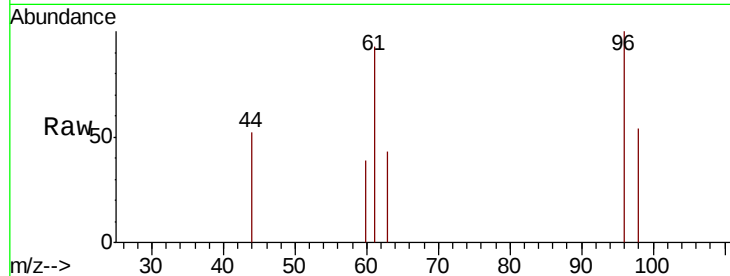
Tot Ion: 96 Resp: 313

Ion Ratio Lower Upper

96 100

61 92.6 96.9 145.3#

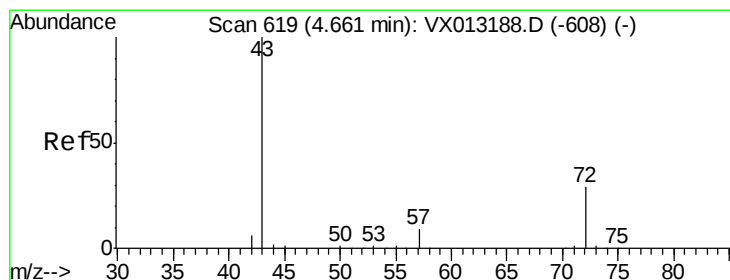
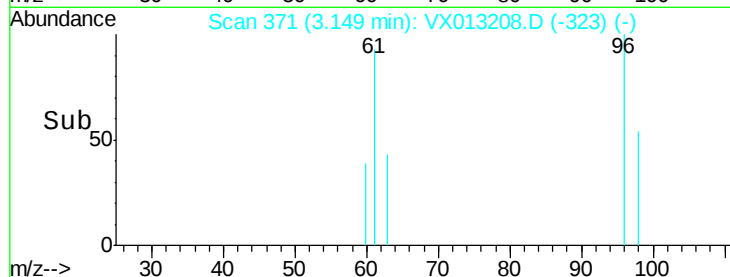
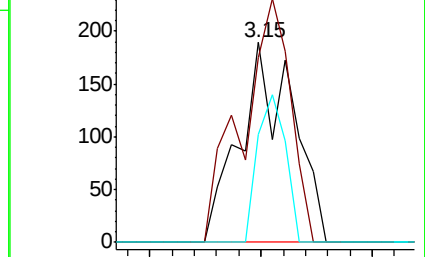
98 54.0 53.0 79.4



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



#25

2-Butanone

Concen: 0.203 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013208.D

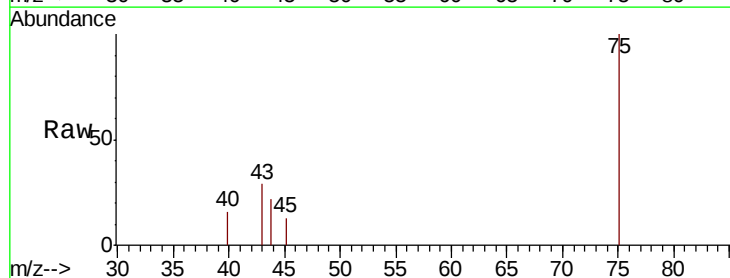
Acq: 24 Oct 2019 13:56

Tgt Ion: 43 Resp: 258

Ion Ratio Lower Upper

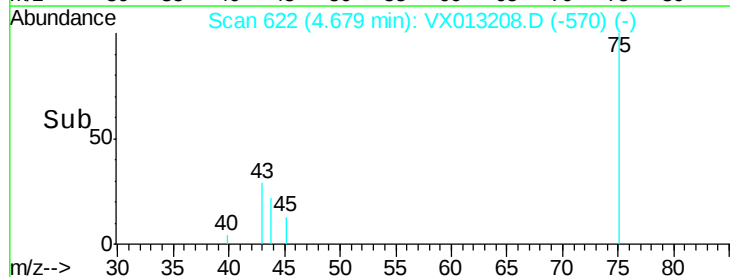
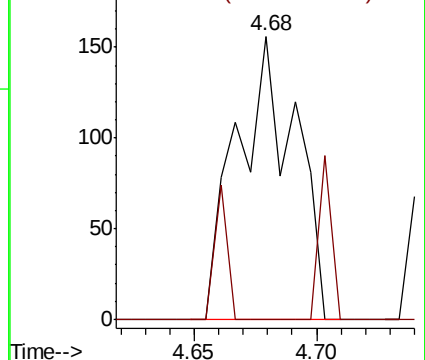
43 100

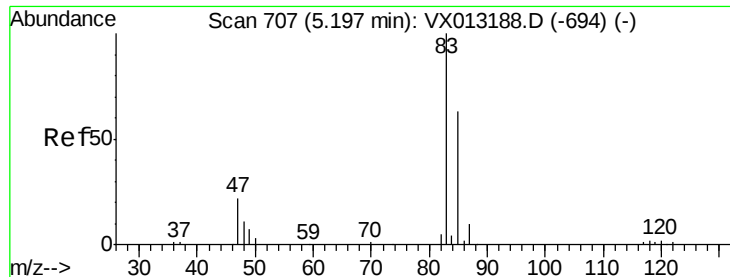
72 0.0 23.4 35.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

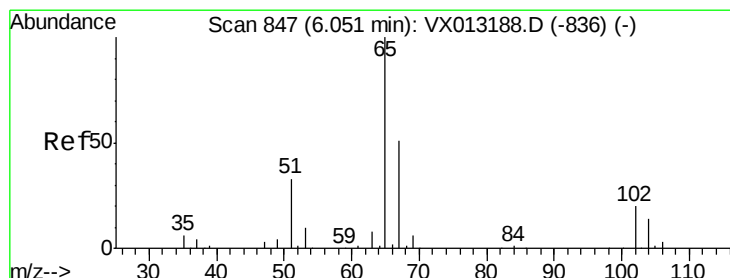
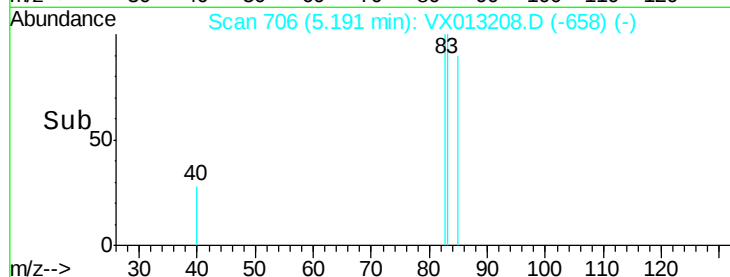
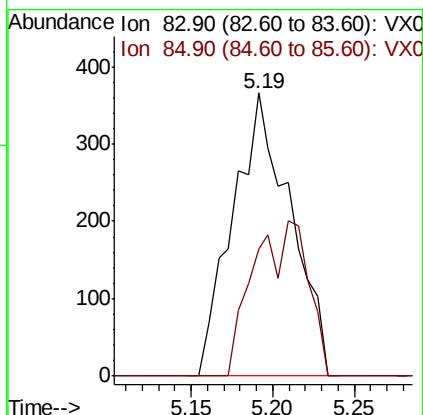
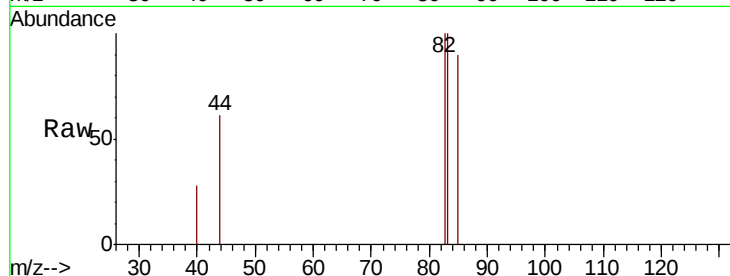




#30
Chloroform
Concen: 0.273 ug/l
RT: 5.19 min Scan# 706
Delta R.T. -0.01 min
Lab File: VX013208.D
Acq: 24 Oct 2019 13:56

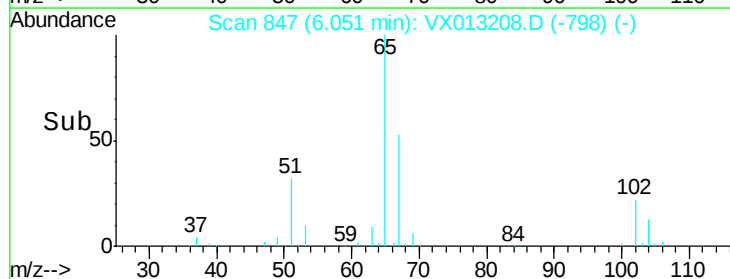
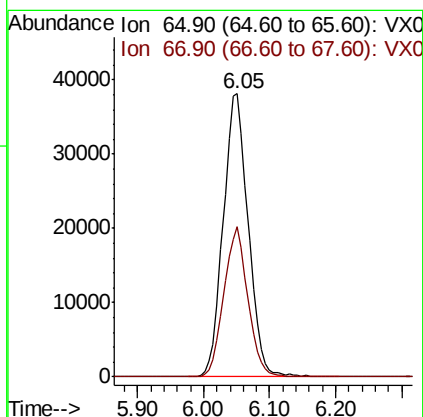
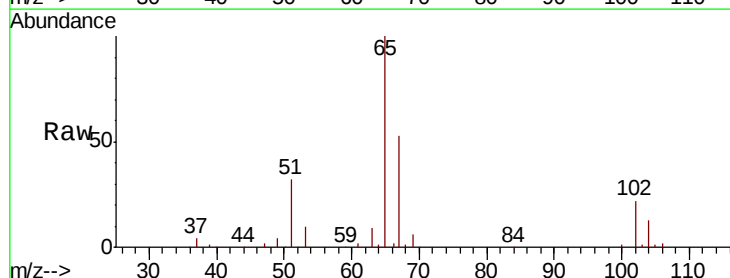
Instrument :
MSVOA_X
ClientSampleId :
S32-TB-2019-7

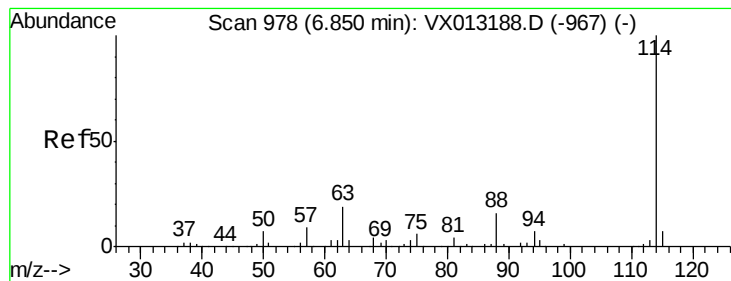
Tot Ion: 83 Resp: 900
Ion Ratio Lower Upper
83 100
85 44.8 50.1 75.1#



#33
1,2-Dichloroethane-d4
Concen: 49.652 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX013208.D
Acq: 24 Oct 2019 13:56

Tgt Ion: 65 Resp: 99789
Ion Ratio Lower Upper
65 100
67 50.6 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 977

Delta R.T. -0.01 min

Lab File: VX013208.D

Acq: 24 Oct 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

S32-TB-2019-7

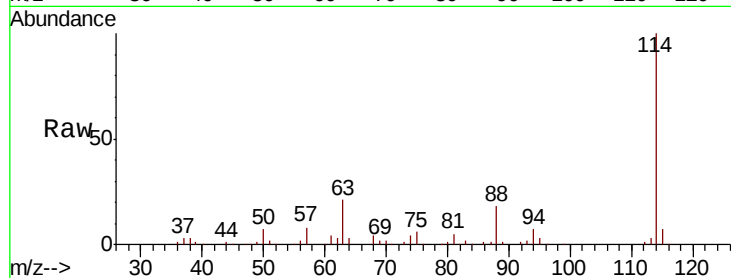
Tot Ion:114 Resp: 135056

Ion Ratio Lower Upper

114 100

63 21.2 0.0 39.0

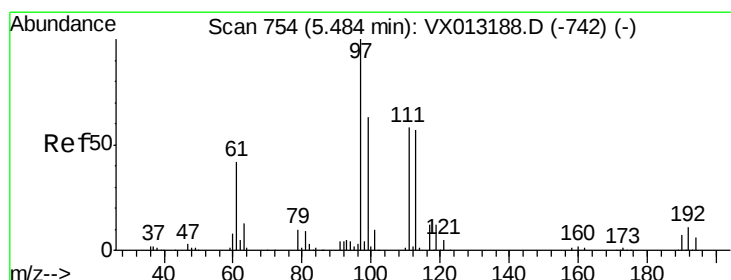
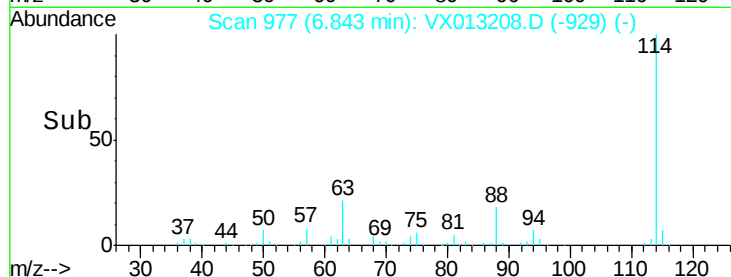
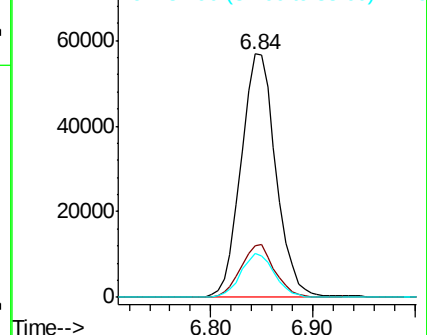
88 17.9 0.0 32.0



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



#35

Dibromofluoromethane

Concen: 50.486 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013208.D

Acq: 24 Oct 2019 13:56

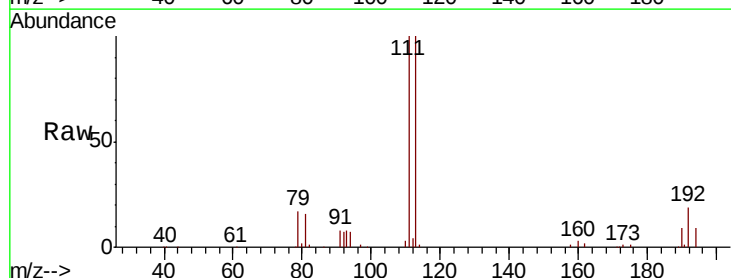
Tgt Ion:113 Resp: 76035

Ion Ratio Lower Upper

113 100

111 102.2 80.3 120.5

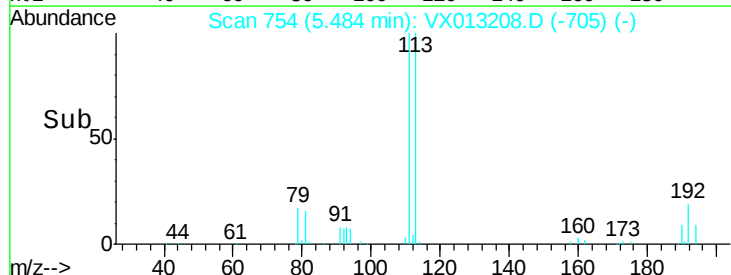
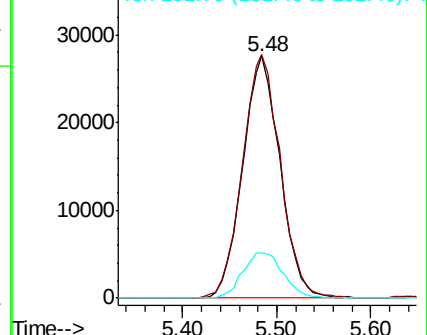
192 20.4 15.9 23.9

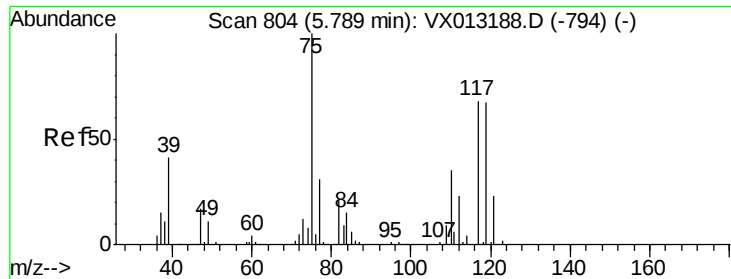


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

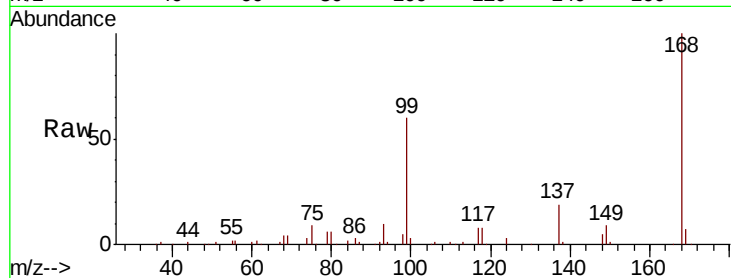




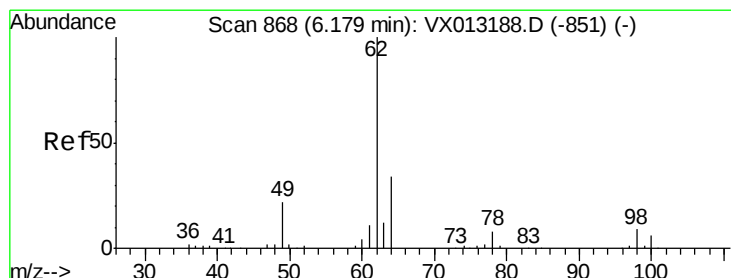
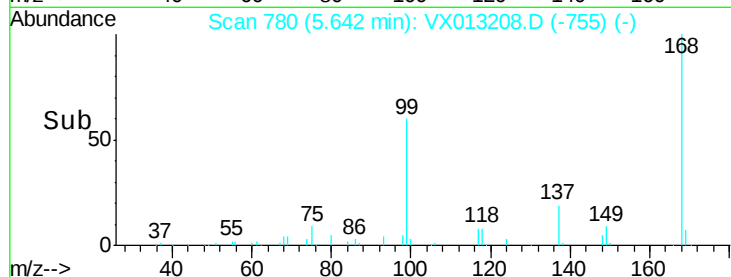
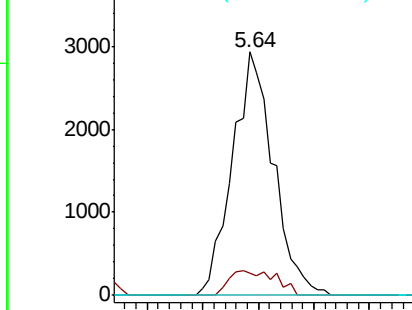
#36
 1,1-Dichloropropene
 Concen: 3.253 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX013208.D
 Acq: 24 Oct 2019 13:56

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-TB-2019-7

Tot Ion: 75 Resp: 7517
 Ion Ratio Lower Upper
 75 100
 110 11.5 17.6 52.9#
 77 0.0 24.7 37.1#

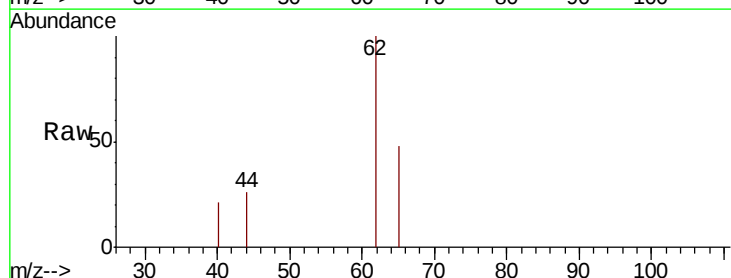


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

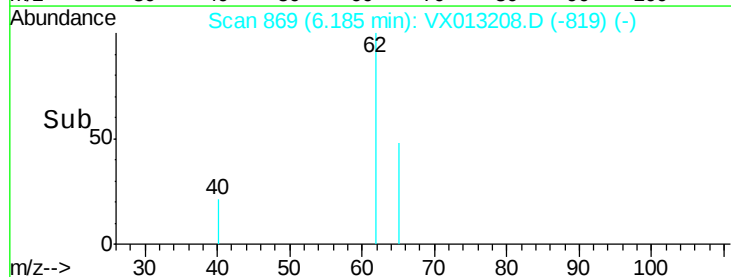
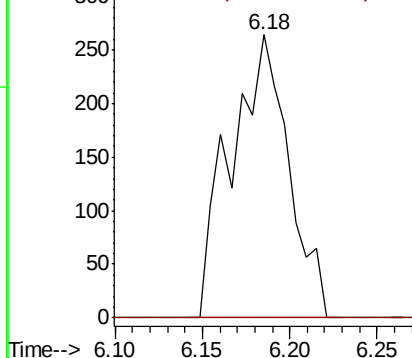


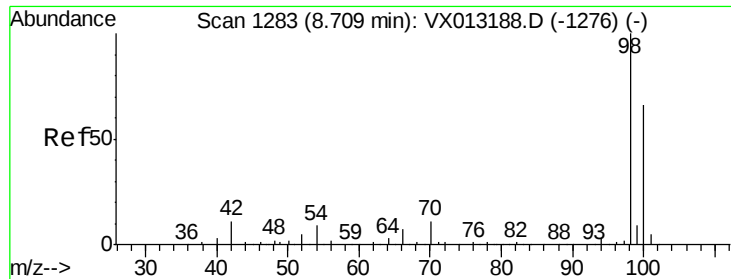
#42
 1,2-Dichloroethane
 Concen: 0.238 ug/l
 RT: 6.18 min Scan# 869
 Delta R.T. 0.01 min
 Lab File: VX013208.D
 Acq: 24 Oct 2019 13:56

Tgt Ion: 62 Resp: 610
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 18.4



Abundance Ion 61.90 (61.60 to 62.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0





#50

Toluene-d8

Concen: 50.607 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013208.D

Acq: 24 Oct 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

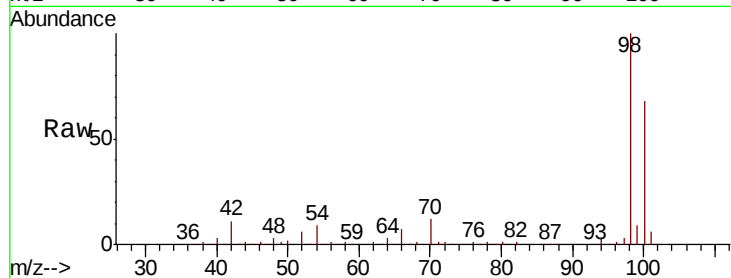
S32-TB-2019-7

Tot Ion: 98 Resp: 282452

Ion Ratio Lower Upper

98 100

100 66.2 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

200000

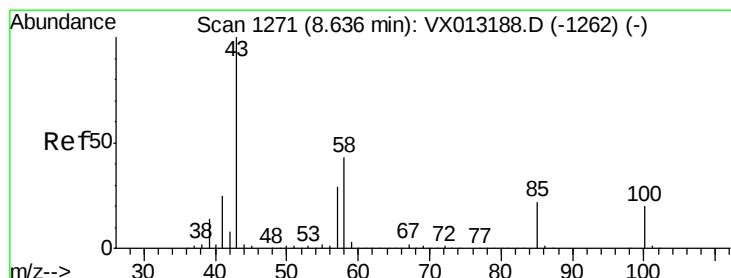
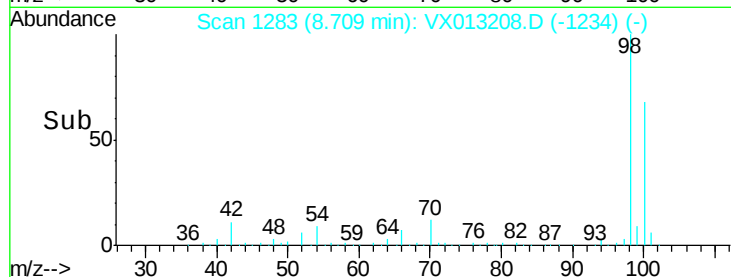
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 0.264 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX013208.D

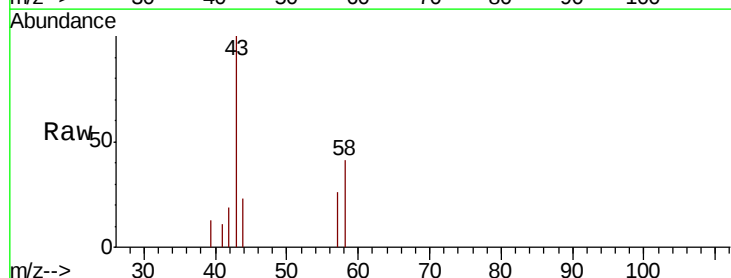
Acq: 24 Oct 2019 13:56

Tgt Ion: 43 Resp: 601

Ion Ratio Lower Upper

43 100

58 36.3 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1000

800

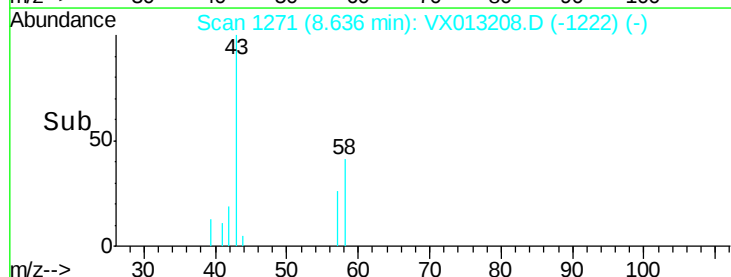
600

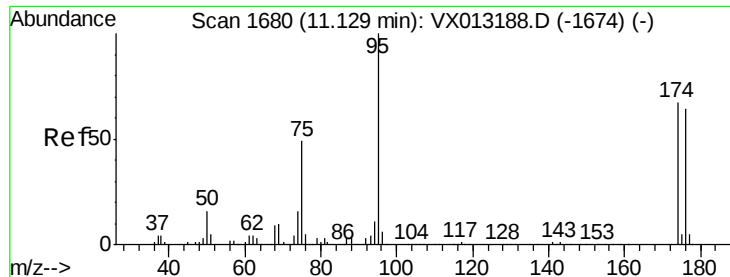
400

200

0

Time--> 8.60 8.65





#62

4-Bromofluorobenzene

Concen: 48.024 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX013208.D

Acq: 24 Oct 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

S32-TB-2019-7

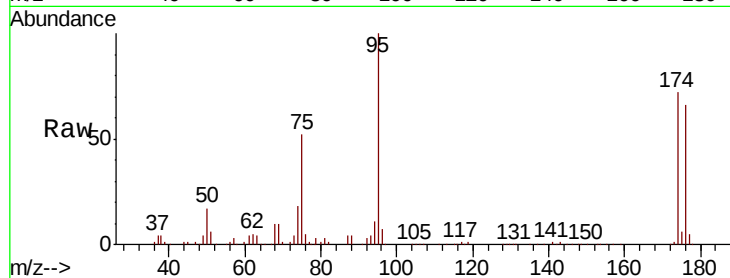
Tot Ion: 95 Resp: 106091

Ion Ratio Lower Upper

95 100

174 77.4 0.0 152.4

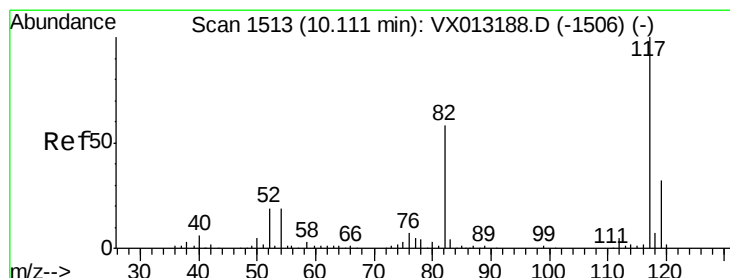
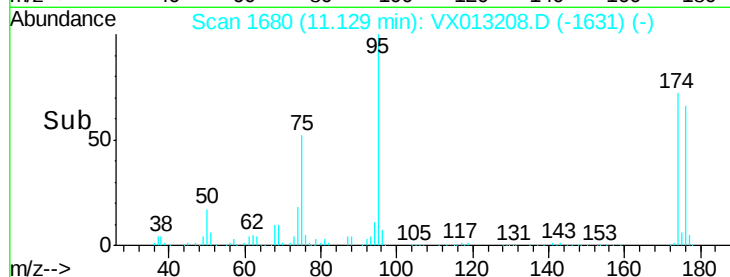
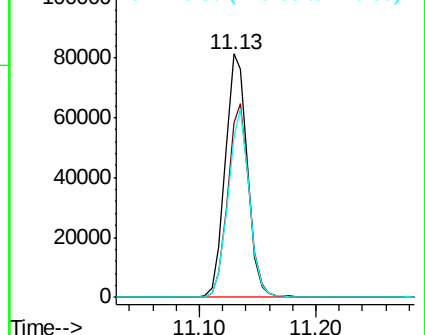
176 74.4 0.0 146.0



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: 10.10 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX013208.D

Acq: 24 Oct 2019 13:56

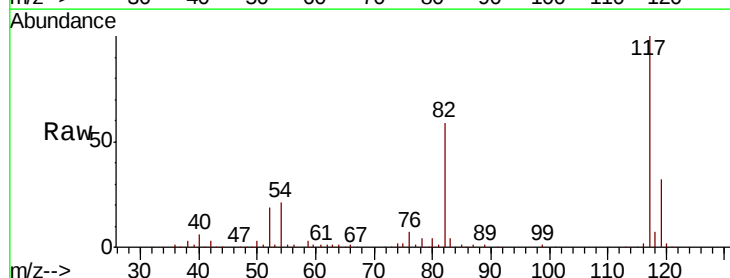
Tgt Ion: 117 Resp: 136439

Ion Ratio Lower Upper

117 100

82 59.1 46.5 69.7

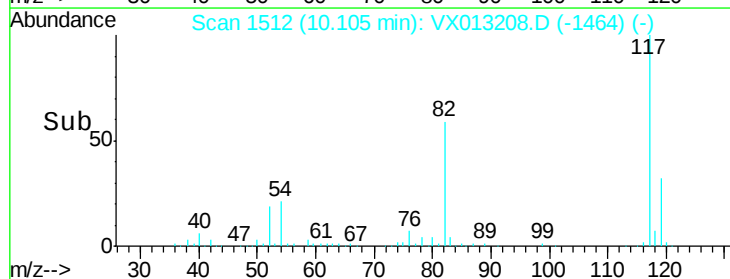
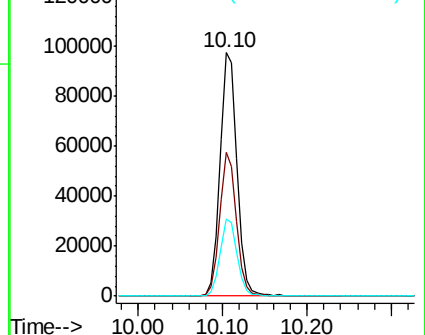
119 31.7 25.2 37.8

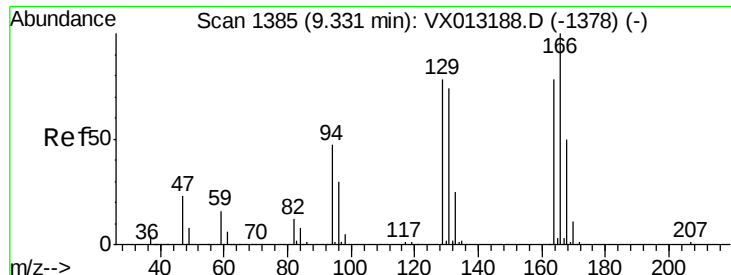


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

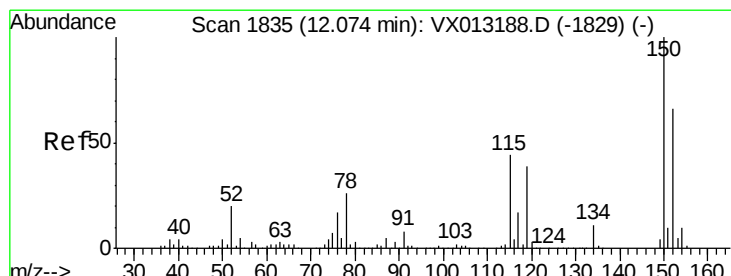
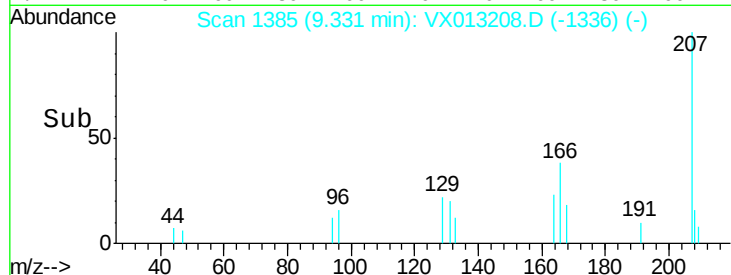
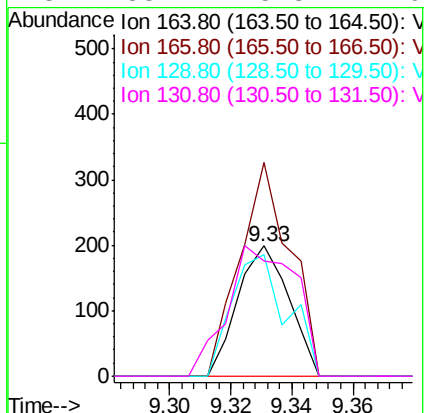
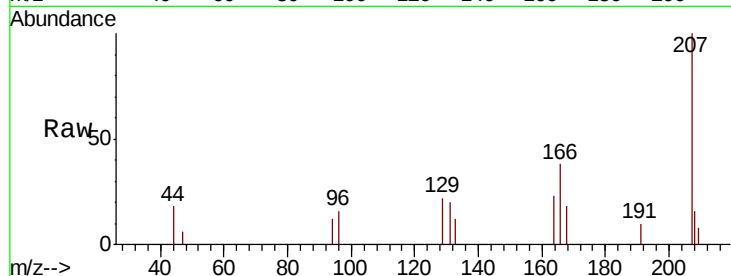




#64
 Tetrachloroethene
 Concen: Below Cal
 RT: 9.33 min Scan# 1385
 Delta R.T. 0.00 min
 Lab File: VX013208.D
 Acq: 24 Oct 2019 13:56

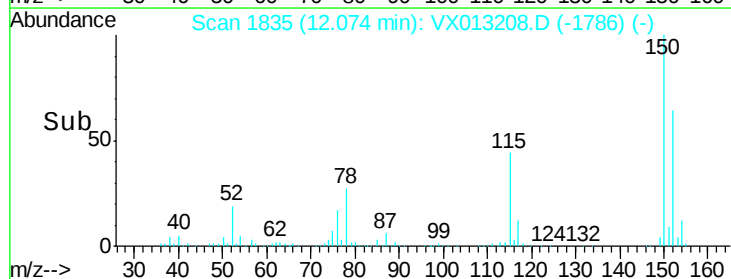
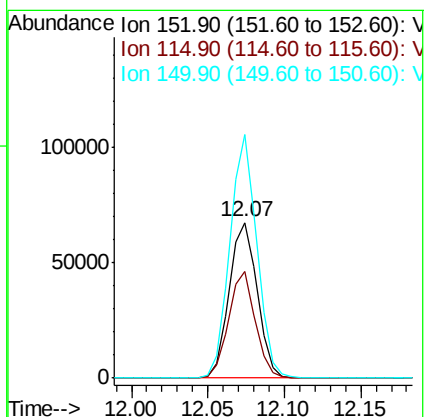
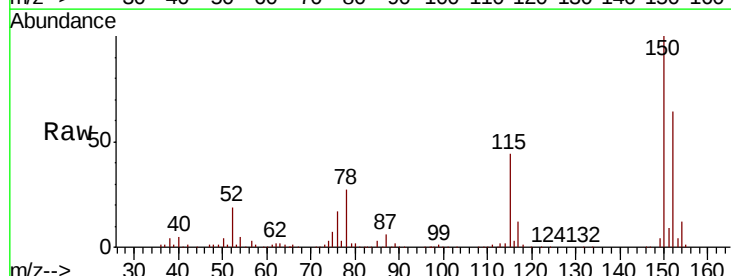
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-TB-2019-7

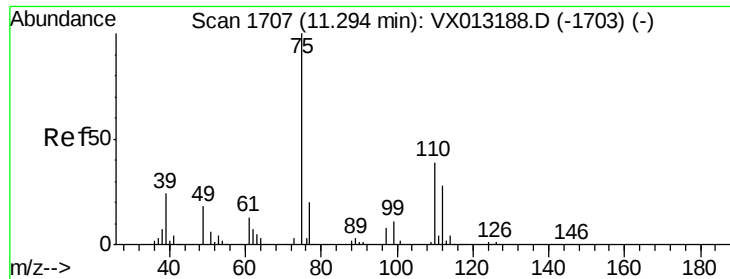
Tot Ion:	164	Resp:	231
Ion	Ratio	Lower	Upper
164	100		
166	163.8	102.2	153.4#
129	93.0	79.8	119.8
131	88.4	75.3	112.9



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VX013208.D
 Acq: 24 Oct 2019 13:56

Tgt Ion:	152	Resp:	85434
Ion	Ratio	Lower	Upper
152	100		
115	65.3	46.6	139.8
150	150.8	0.0	354.0





#76

1,2,3-Trichloropropane

Concen: 26.217 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013208.D

Acq: 24 Oct 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

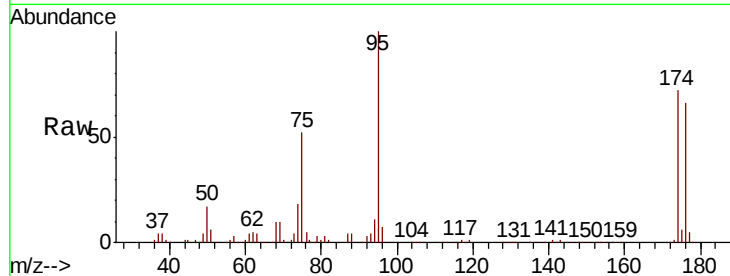
S32-TB-2019-7

Tot Ion: 75 Resp: 53984

Ion Ratio Lower Upper

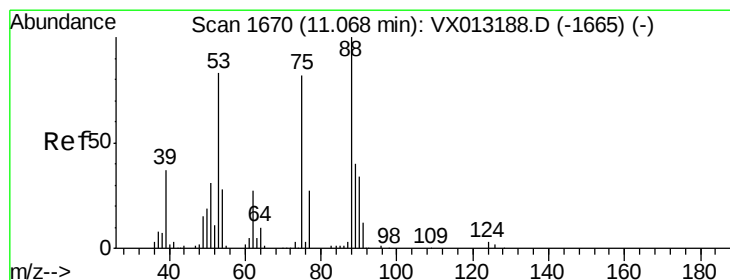
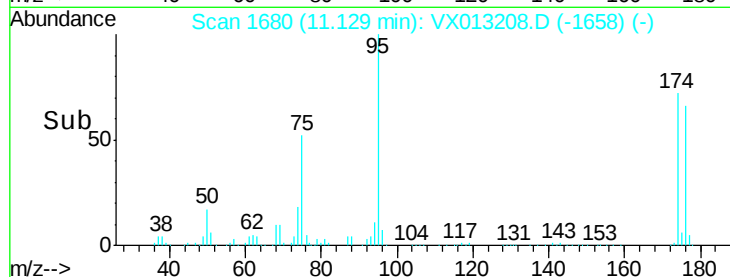
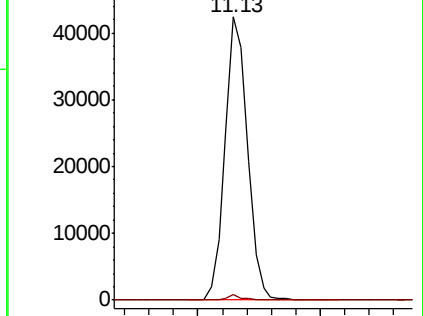
75 100

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: 72.043 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013208.D

Acq: 24 Oct 2019 13:56

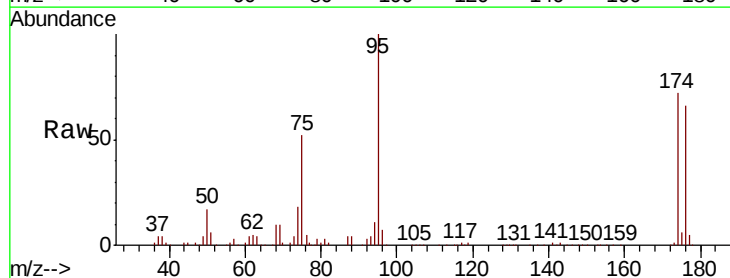
Tgt Ion: 75 Resp: 53984

Ion Ratio Lower Upper

75 100

53 0.0 77.9 116.9#

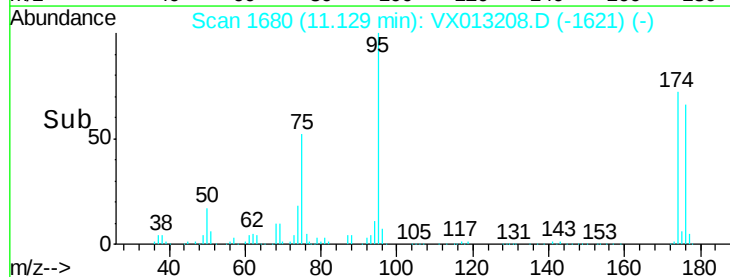
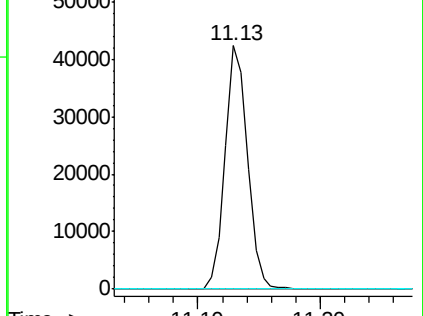
89 0.0 37.3 55.9#

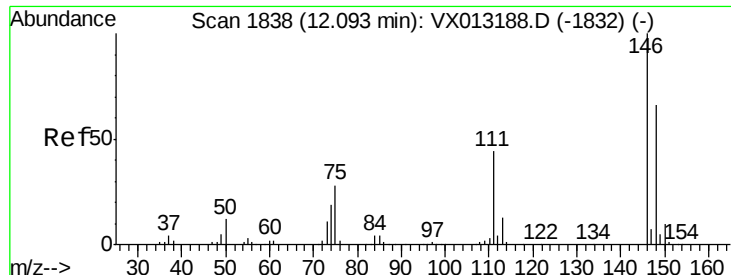


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#88

1,4-Dichlorobenzene

Concen: 0.211 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VX013208.D

Acq: 24 Oct 2019 13:56

Instrument :

MSVOA_X

ClientSampled :

S32-TB-2019-7

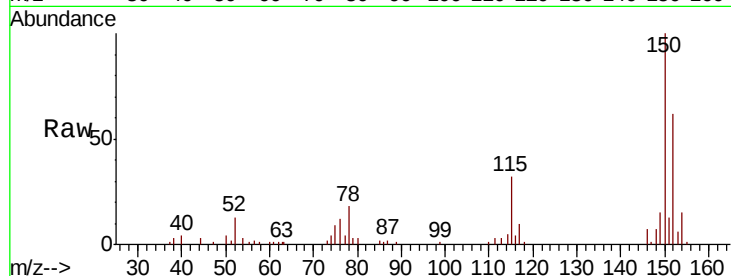
Tot Ion:146 Resp: 721

Ion Ratio Lower Upper

146 100

111 0.0 21.3 63.9#

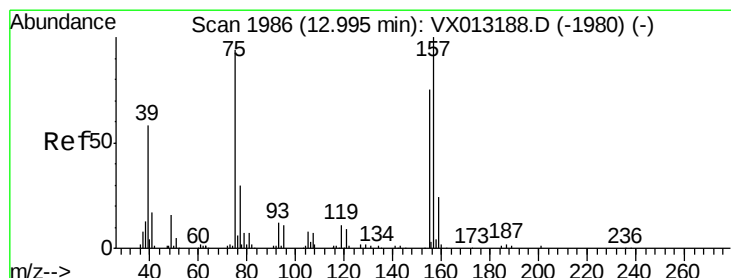
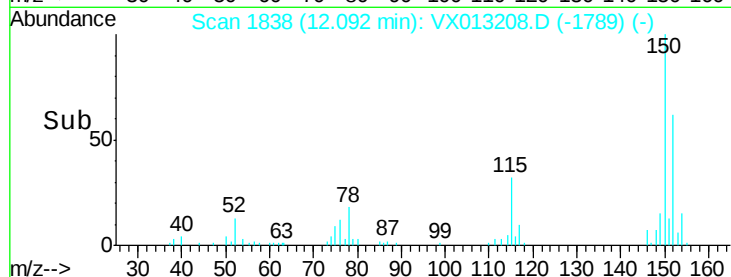
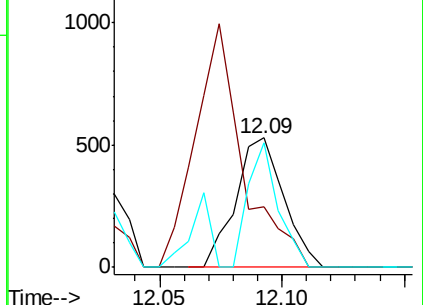
148 60.6 32.5 97.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.311 ug/l

RT: 12.81 min Scan# 1956

Delta R.T. -0.18 min

Lab File: VX013208.D

Acq: 24 Oct 2019 13:56

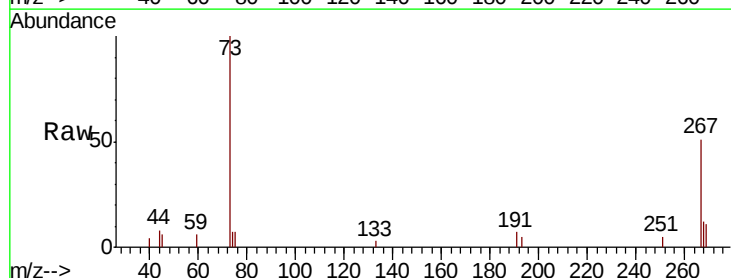
Tgt Ion: 75 Resp: 182

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

