

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092420\
 Data File : VX018569.D
 Acq On : 24 Sep 2020 14:02
 Operator : JC/SP
 Sample : L4118-05DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D4-20200918DL

Quant Time: Sep 25 01:06:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 17 12:17:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	461049	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	733797	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	694240	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	340058	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	321918	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
35) Dibromofluoromethane	5.46	113	253562	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
50) Toluene-d8	8.70	98	897736	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
62) 4-Bromofluorobenzene	11.12	95	323722	44.15	ug/l	0.00
Spiked Amount			Recovery	=	88.30%	

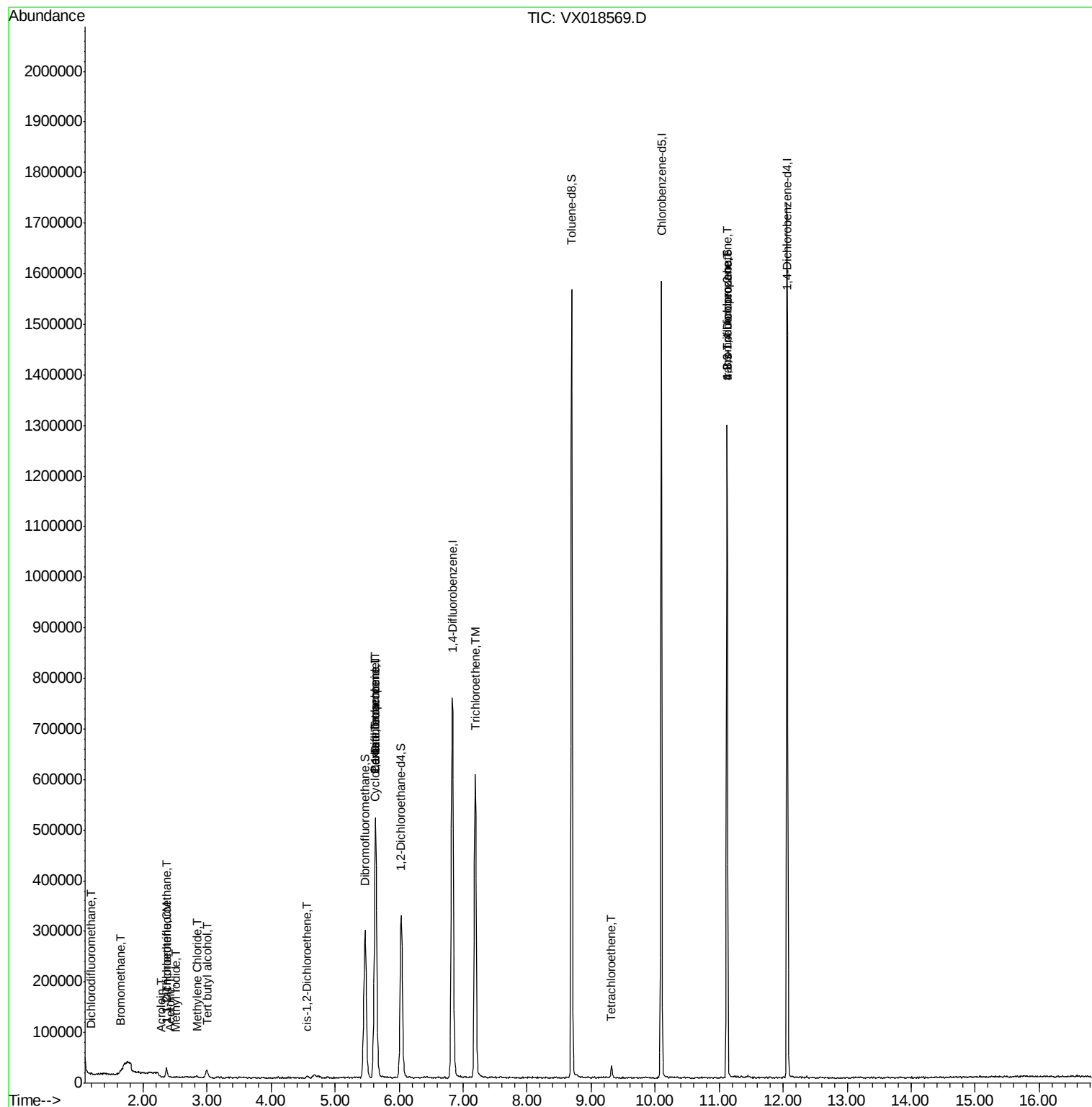
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	964	0.221	ug/l	89
5) Bromomethane	1.64	94	1253	0.377	ug/l #	12
9) 1,1,2-Trichlorotrifluoroet	2.37	101	5831	1.316	ug/l #	90
10) Methyl Iodide	2.50	142	619	5.016	ug/l #	81
11) Tert butyl alcohol	3.00	59	11375	10.023	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	1233	0.276	ug/l	87
13) Acrolein	2.28	56	242	0.337	ug/l	85
16) Acetone	2.43	43	2977	1.193	ug/l #	72
20) Methylene Chloride	2.84	84	2340	0.425	ug/l #	77
27) cis-1,2-Dichloroethene	4.56	96	2914	0.501	ug/l	84
31) Cyclohexane	5.62	56	9967	1.263	ug/l #	23
36) 1,1-Dichloropropene	5.63	75	36046	5.061	ug/l #	52
38) Carbon Tetrachloride	5.64	117	49263	6.245	ug/l #	19
44) Trichloroethene	7.19	130	232622	39.369	ug/l	99
64) Tetrachloroethene	9.32	164	4372	0.800	ug/l #	89
76) 1,2,3-Trichloropropane	11.12	75	173240	24.243	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	173240	62.121	ug/l #	12

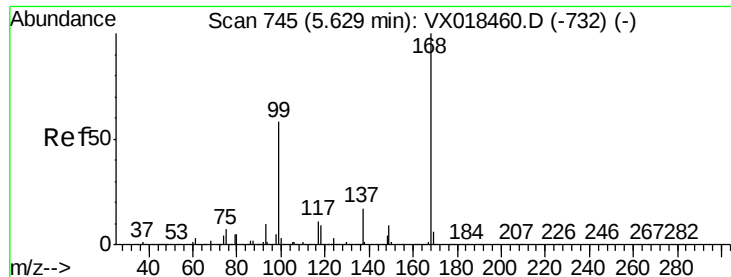
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018569.D

Acq: 24 Sep 2020 14:02

Instrument :

MSVOA_X

ClientSampleId :

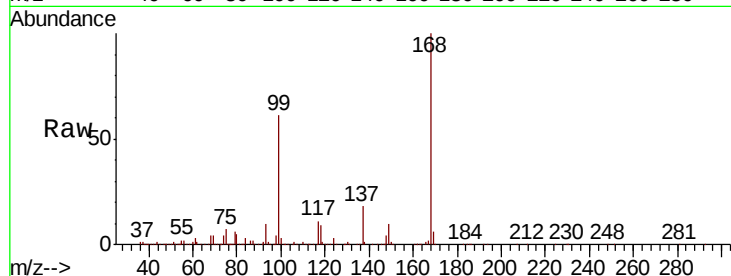
RE132D4-20200918DL

Tot Ion:168 Resp: 461049

Ion Ratio Lower Upper

168 100

99 61.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

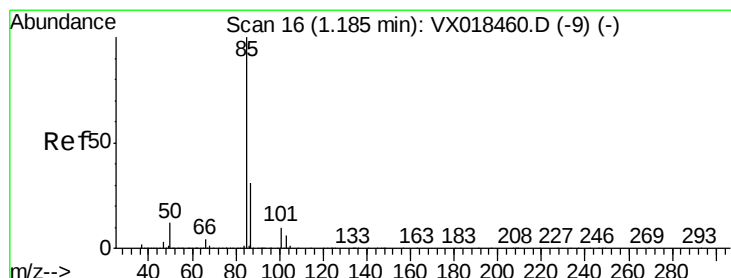
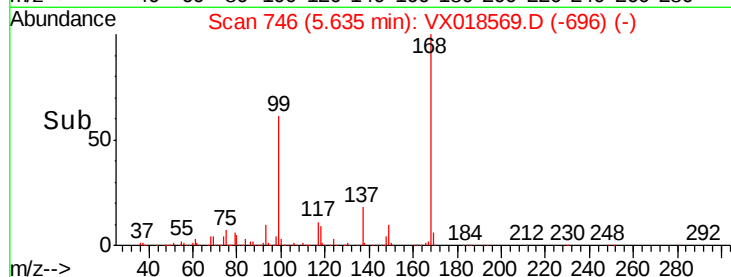
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.221 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX018569.D

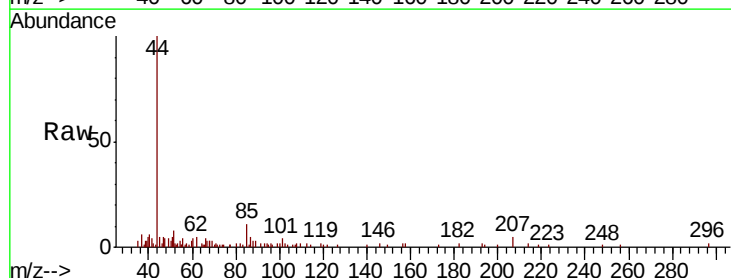
Acq: 24 Sep 2020 14:02

Tgt Ion: 85 Resp: 964

Ion Ratio Lower Upper

85 100

87 37.6 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

800

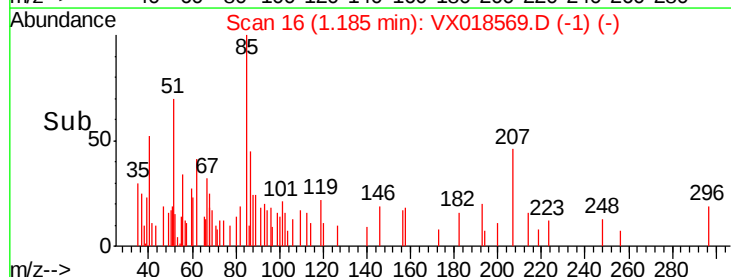
600

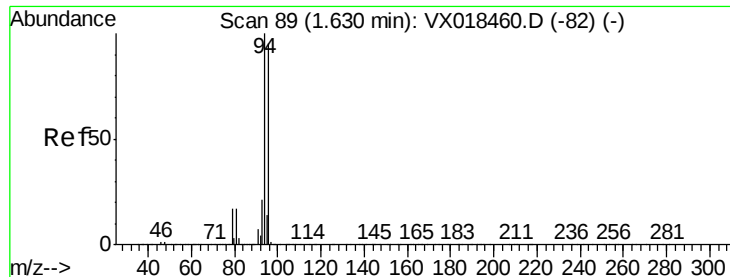
400

200

0

Time-->





#5

Bromomethane

Concen: 0.377 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX018569.D

Acq: 24 Sep 2020 14:02

Instrument :

MSVOA_X

ClientSampleId :

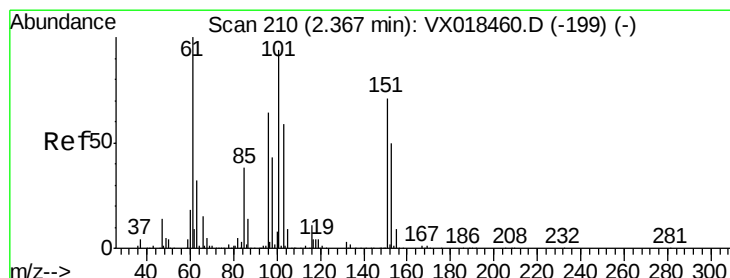
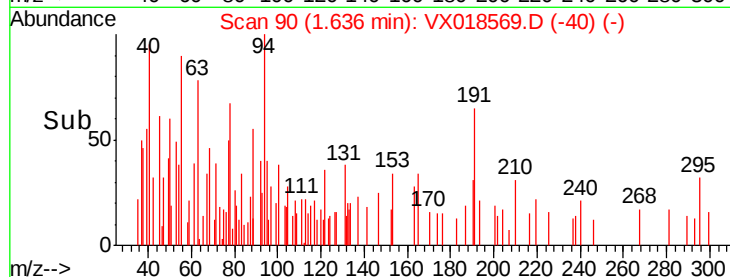
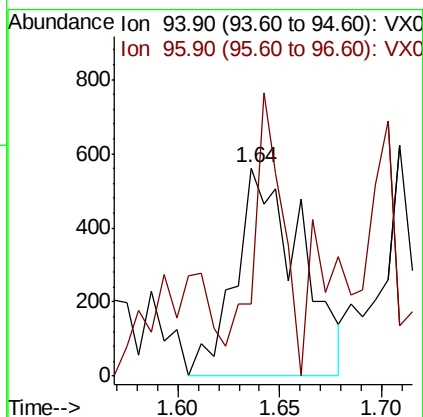
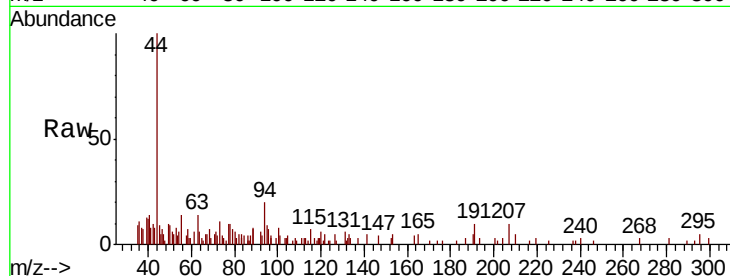
RE132D4-20200918DL

Tot Ion: 94 Resp: 1253

Ion Ratio Lower Upper

94 100

96 9.5 75.5 113.3#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.316 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX018569.D

Acq: 24 Sep 2020 14:02

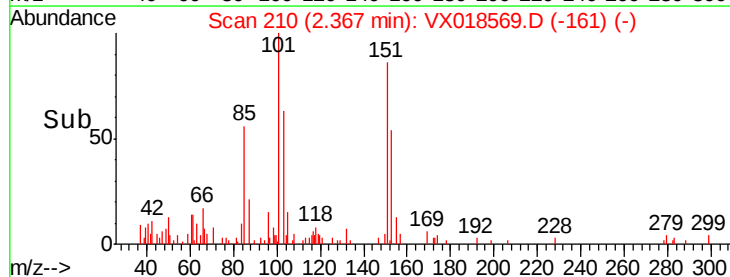
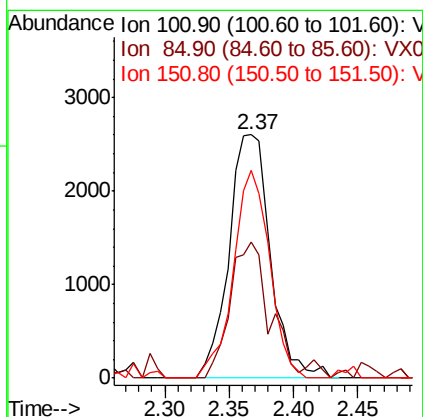
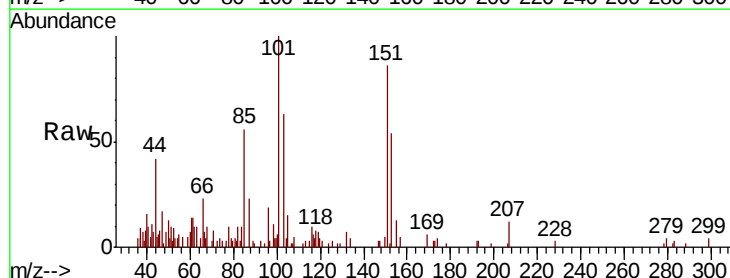
Tgt Ion:101 Resp: 5831

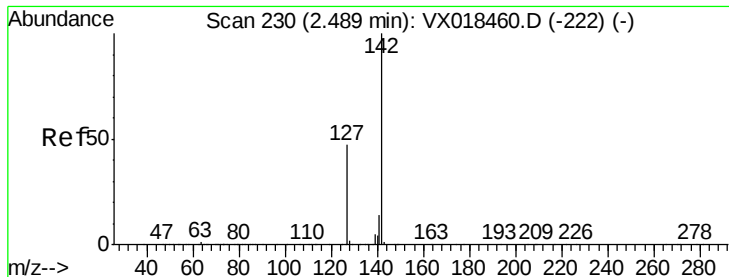
Ion Ratio Lower Upper

101 100

85 52.9 34.7 52.1#

151 74.5 64.9 97.3

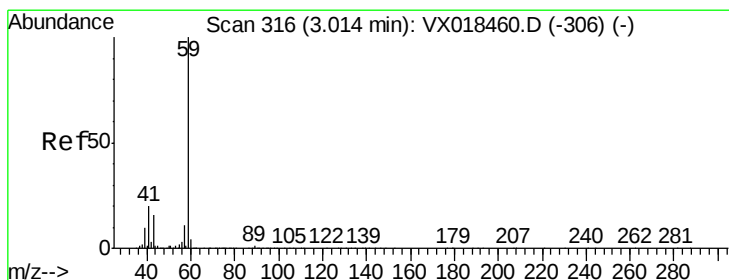
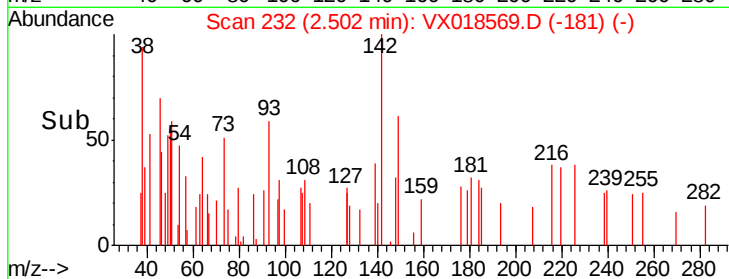
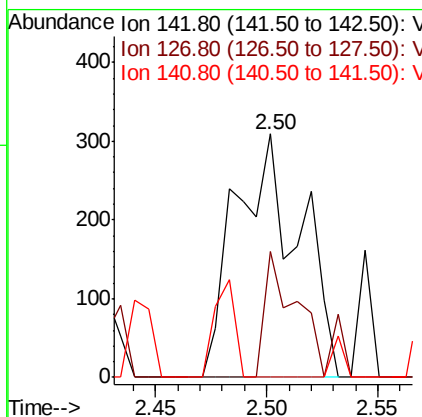
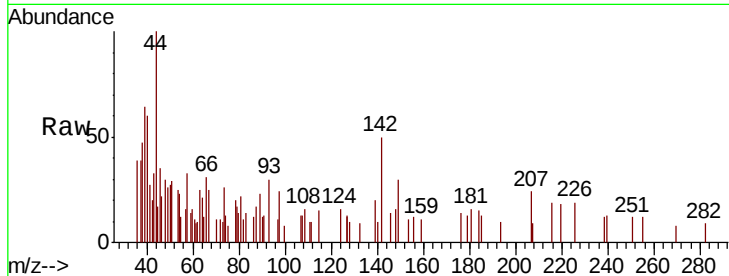




#10
Methyl Iodide
Concen: 5.016 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX018569.D
Acq: 24 Sep 2020 14:02

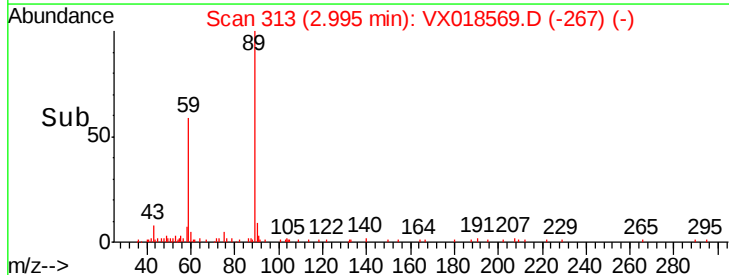
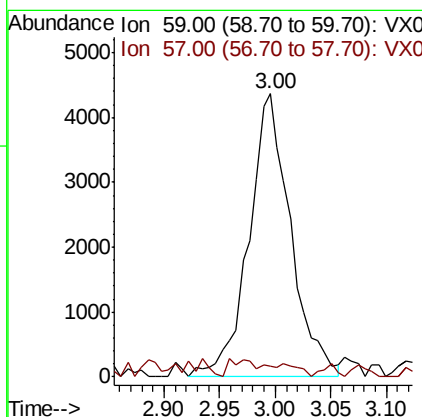
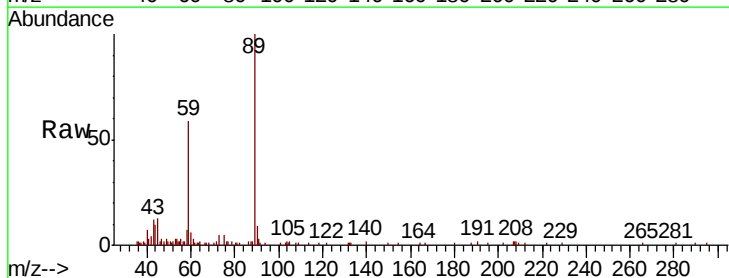
Instrument :
MSVOA_X
ClientSampleId :
RE132D4-20200918DL

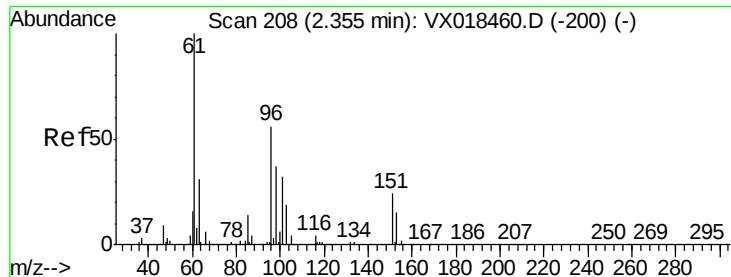
Tot Ion:142 Resp: 619
Ion Ratio Lower Upper
142 100
127 30.0 36.0 54.0#
141 12.6 11.9 17.9



#11
Tert butyl alcohol
Concen: 10.023 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX018569.D
Acq: 24 Sep 2020 14:02

Tgt Ion: 59 Resp: 11375
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#12

1,1-Dichloroethene

Concen: 0.276 ug/l

RT: 2.36 min Scan# 208

Delta R.T. 0.00 min

Lab File: VX018569.D

Acq: 24 Sep 2020 14:02

Instrument :

MSVOA_X

ClientSampleId :

RE132D4-20200918DL

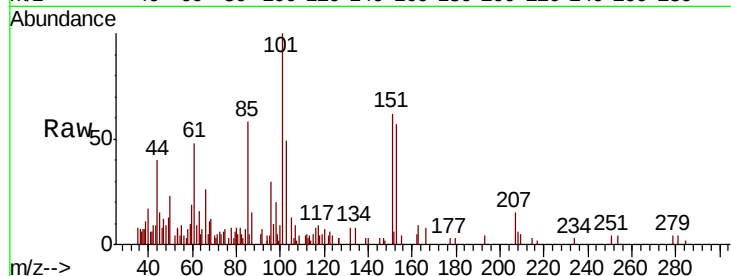
Tot Ion: 96 Resp: 1233

Ion Ratio Lower Upper

96 100

61 156.8 142.2 213.4

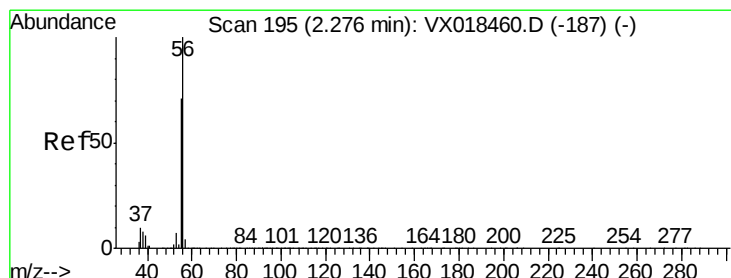
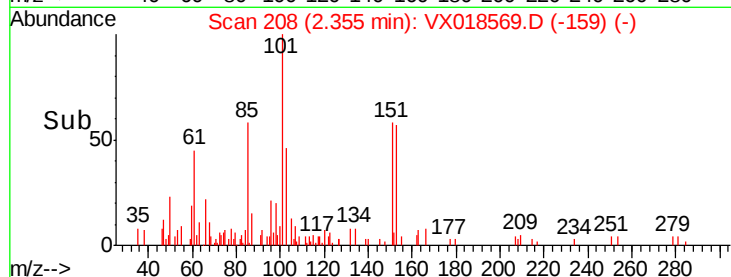
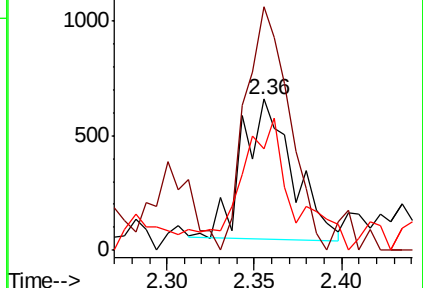
98 58.9 52.4 78.6



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



#13

Acrolein

Concen: 0.337 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX018569.D

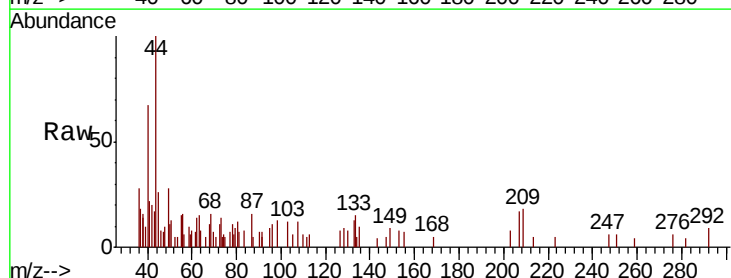
Acq: 24 Sep 2020 14:02

Tgt Ion: 56 Resp: 242

Ion Ratio Lower Upper

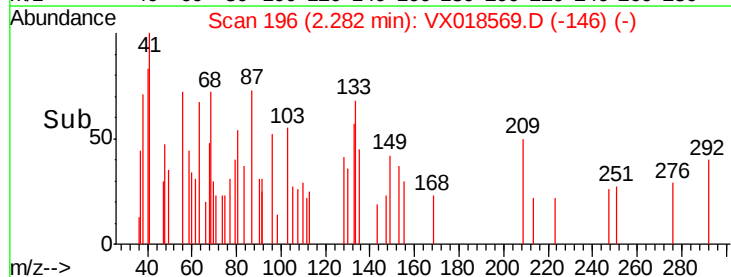
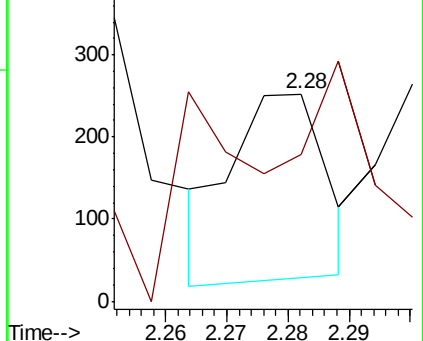
56 100

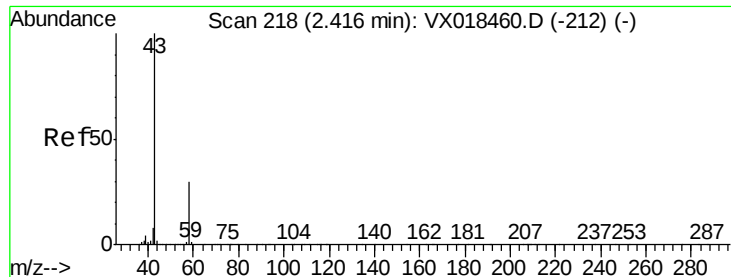
55 85.5 58.2 87.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.193 ug/l

RT: 2.43 min Scan# 221

Delta R.T. 0.02 min

Lab File: VX018569.D

Acq: 24 Sep 2020 14:02

Instrument :

MSVOA_X

ClientSampleId :

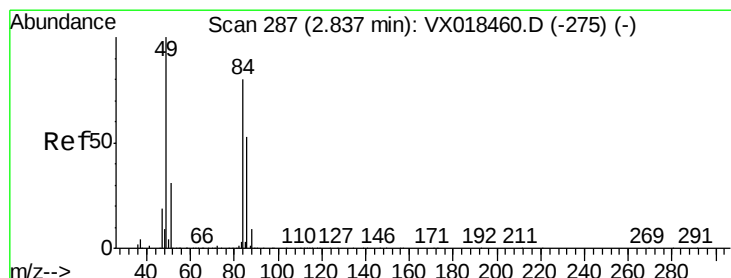
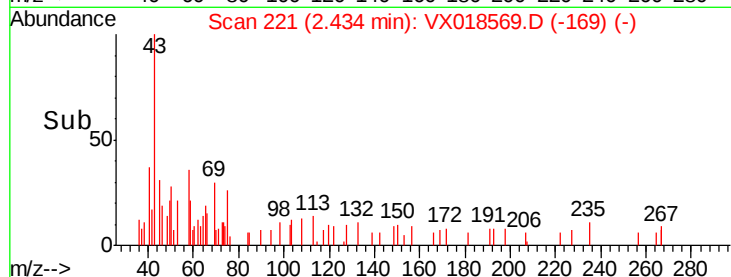
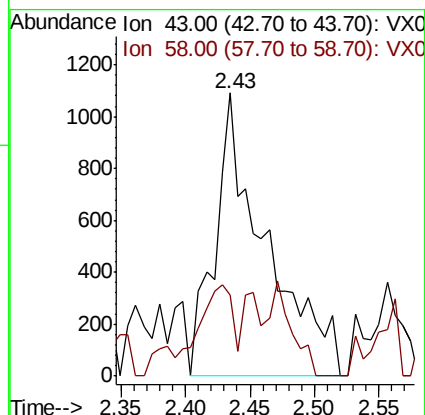
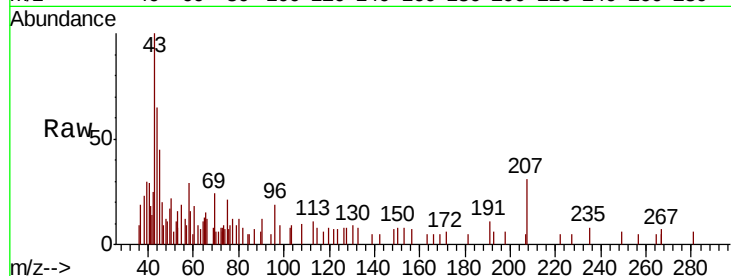
RE132D4-20200918DL

Tot Ion: 43 Resp: 2977

Ion Ratio Lower Upper

43 100

58 45.3 24.0 36.0#



#20

Methylene Chloride

Concen: 0.425 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX018569.D

Acq: 24 Sep 2020 14:02

Tgt Ion: 84 Resp: 2340

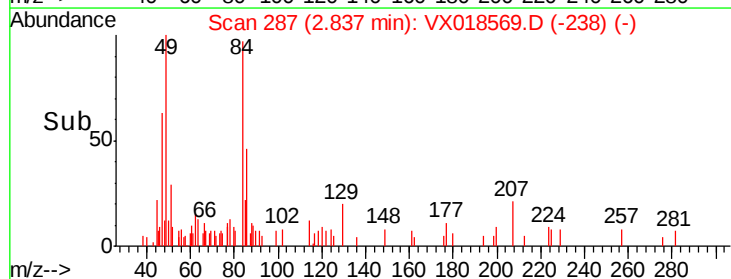
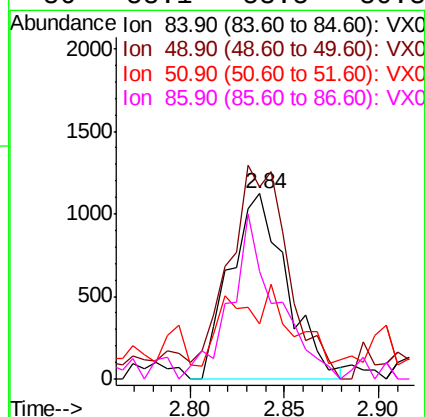
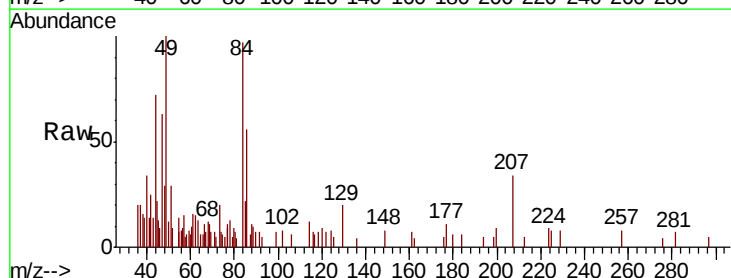
Ion Ratio Lower Upper

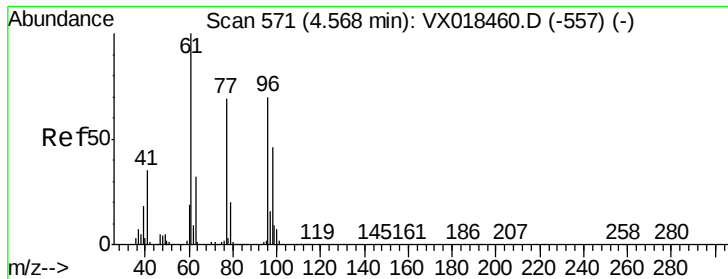
84 100

49 94.4 100.6 151.0#

51 22.0 30.9 46.3#

86 58.1 53.5 80.3





#27

cis-1,2-Dichloroethene

Concen: 0.501 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.01 min

Lab File: VX018569.D

Acq: 24 Sep 2020 14:02

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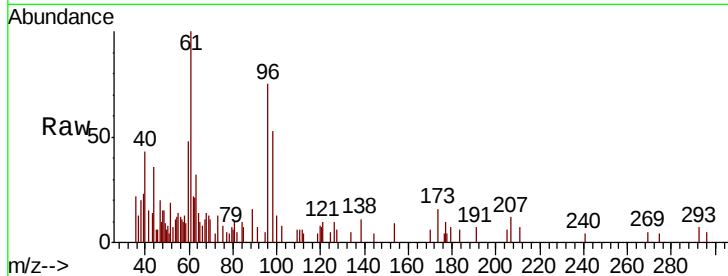
Tot Ion: 96 Resp: 2914

Ion Ratio Lower Upper

96 100

61 124.0 0.0 300.0

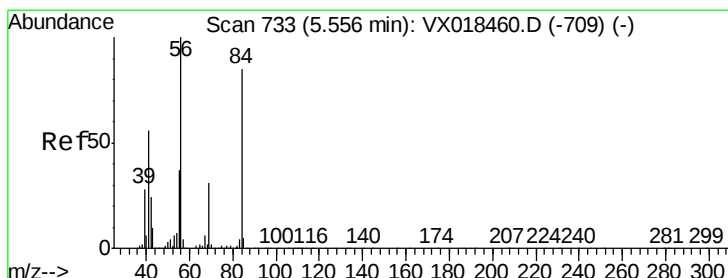
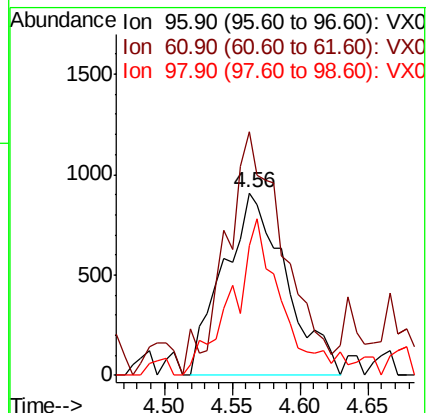
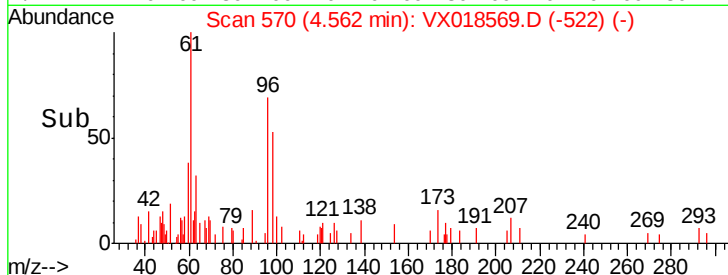
98 68.6 0.0 130.4



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: 1.263 ug/l

RT: 5.62 min Scan# 743

Delta R.T. 0.06 min

Lab File: VX018569.D

Acq: 24 Sep 2020 14:02

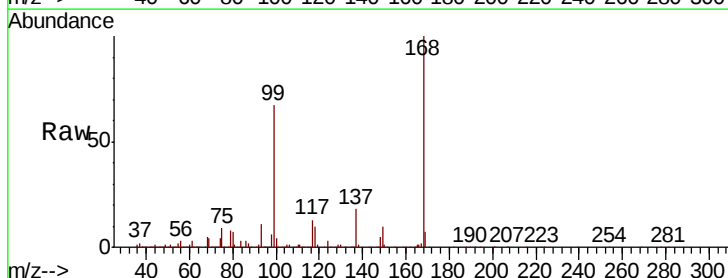
Tgt Ion: 56 Resp: 9967

Ion Ratio Lower Upper

56 100

69 156.6 24.8 37.2#

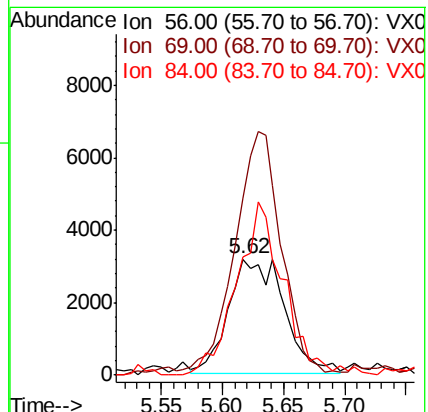
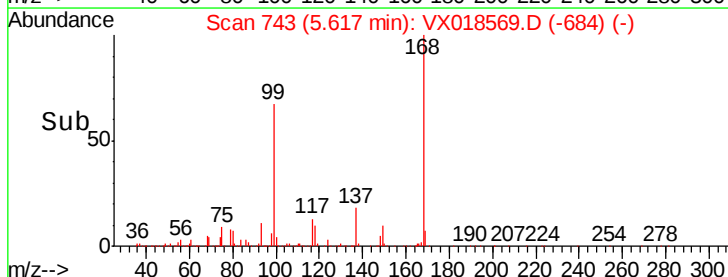
84 103.9 67.6 101.4#

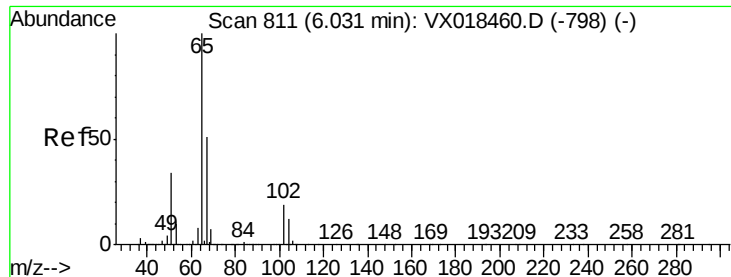


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

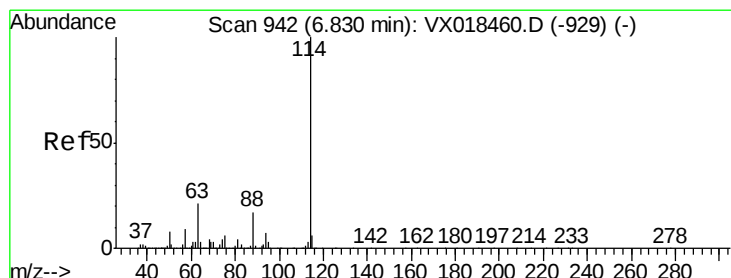
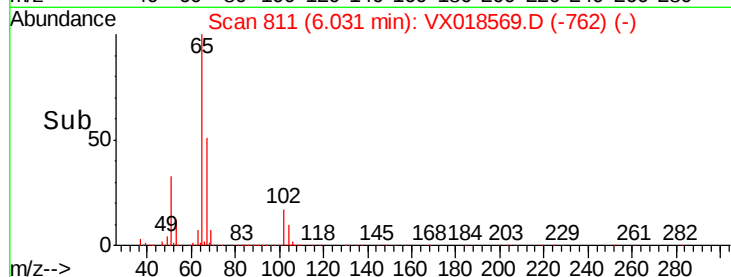
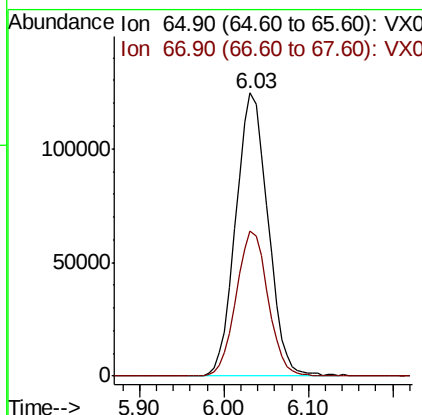
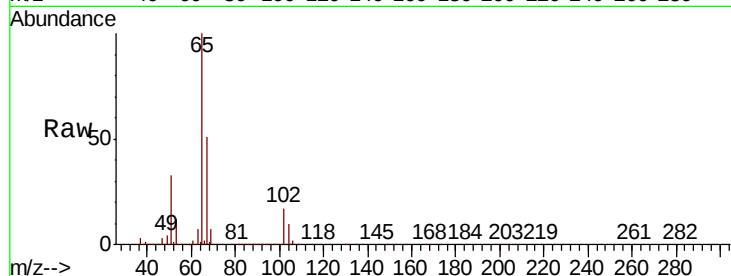




#33
 1,2-Dichloroethane-d4
 Concen: 49.357 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VX018569.D
 Acq: 24 Sep 2020 14:02

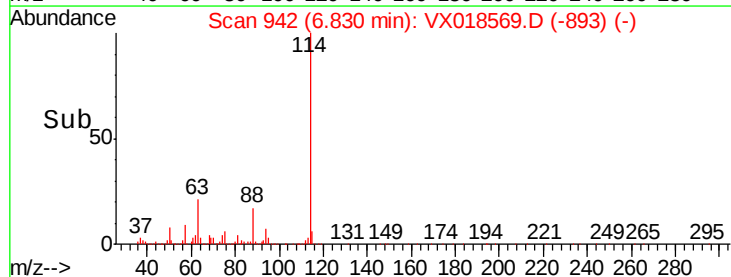
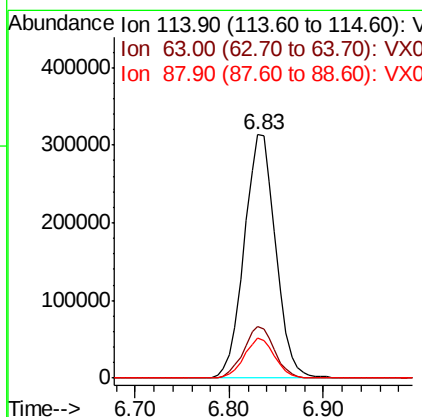
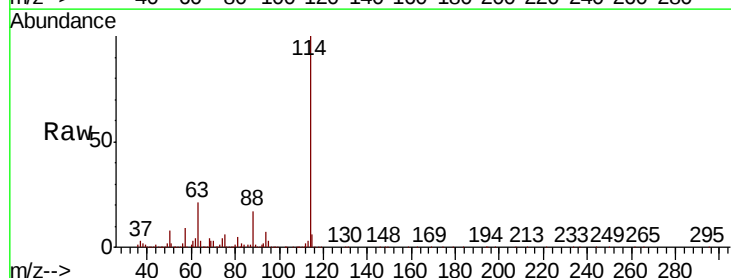
Instrument :
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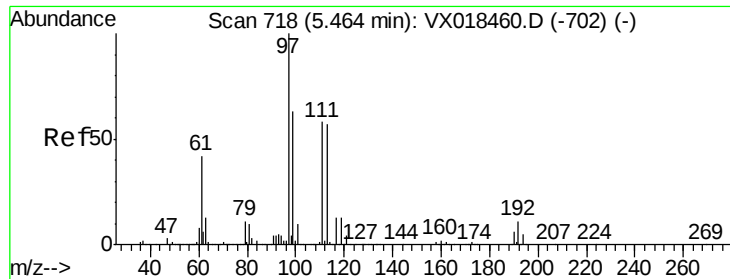
Tot Ion: 65 Resp: 321918
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX018569.D
 Acq: 24 Sep 2020 14:02

Tgt Ion: 114 Resp: 733797
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 42.8
 88 16.7 0.0 33.6

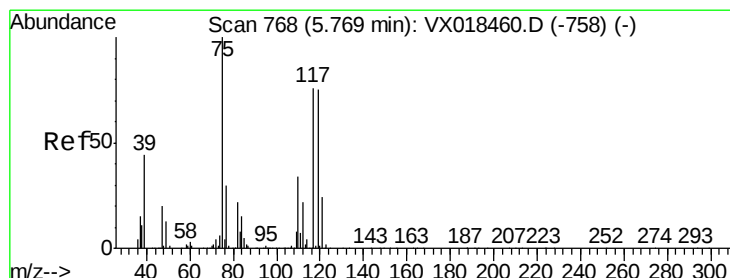
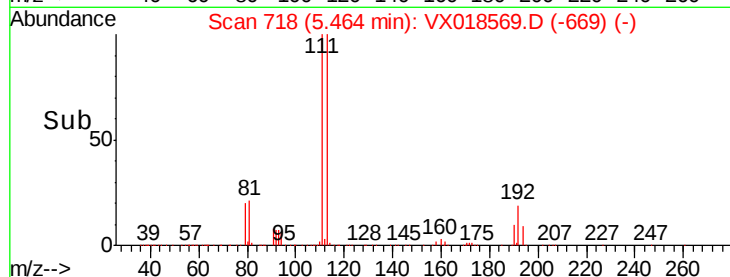
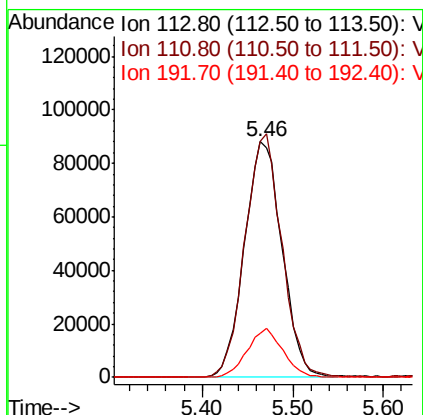
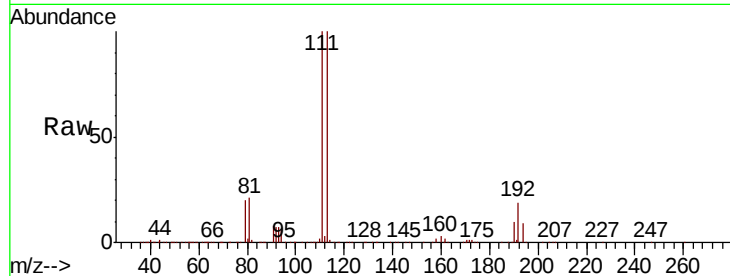




#35
 Dibromofluoromethane
 Concen: 49.984 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.00 min
 Lab File: VX018569.D
 Acq: 24 Sep 2020 14:02

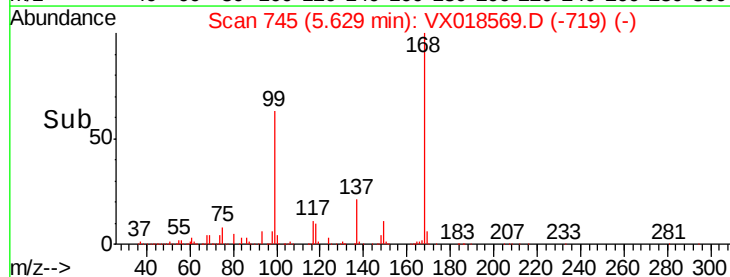
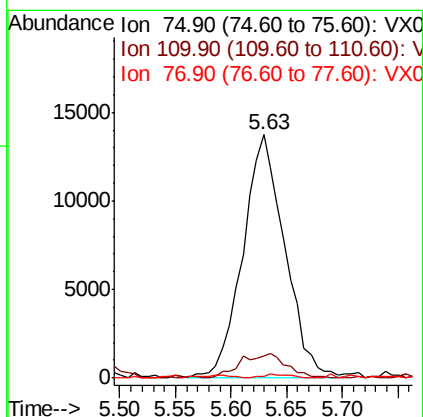
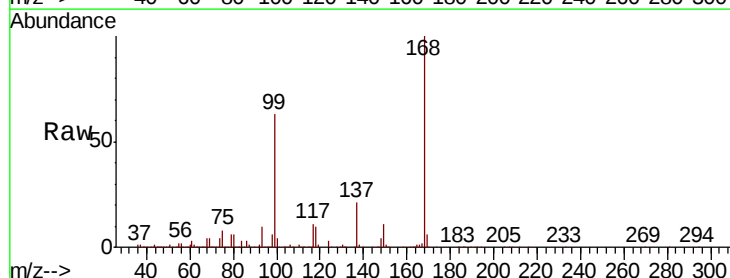
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D4-20200918DL

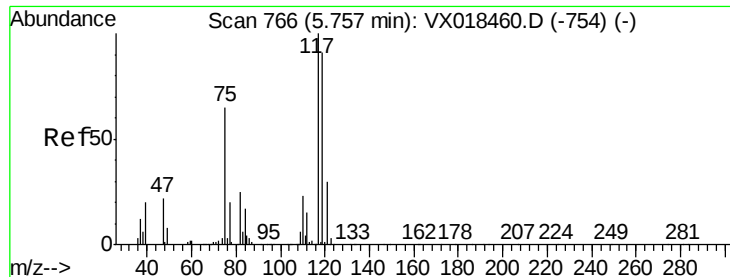
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.4	122.2
192	19.7	16.6	24.8



#36
 1,1-Dichloropropene
 Concen: 5.061 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX018569.D
 Acq: 24 Sep 2020 14:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.3	17.6	52.8#
77	1.0	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 6.245 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018569.D

Acq: 24 Sep 2020 14:02

Instrument :

MSVOA_X

ClientSampleId :

RE132D4-20200918DL

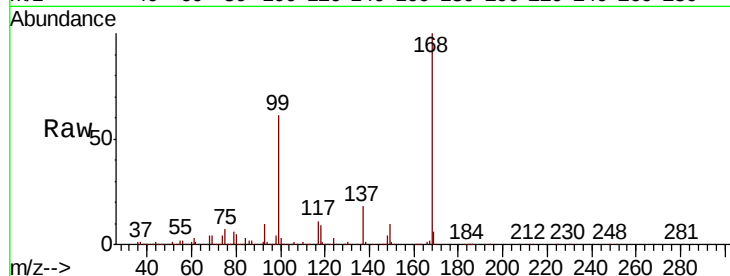
Tot Ion:117 Resp: 49263

Ion Ratio Lower Upper

117 100

119 5.5 72.3 108.5#

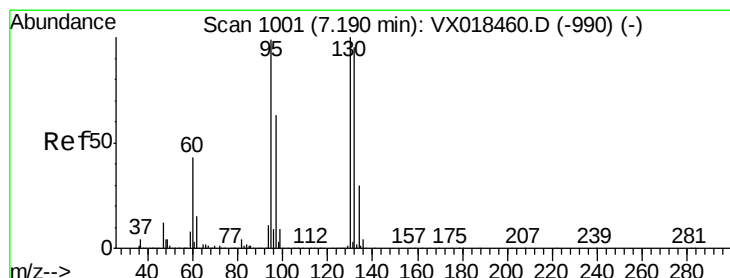
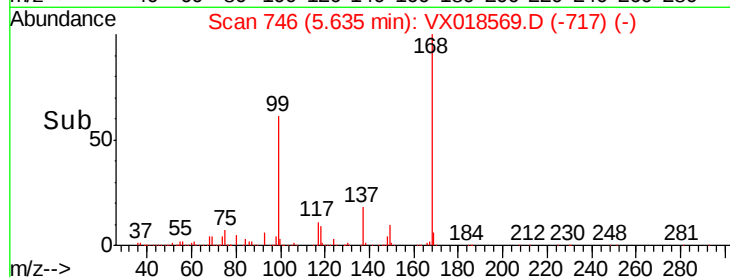
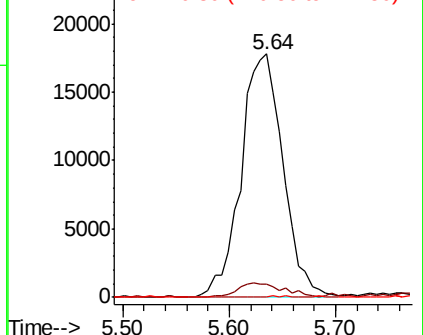
121 0.3 23.8 35.8#



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



#44

Trichloroethene

Concen: 39.369 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX018569.D

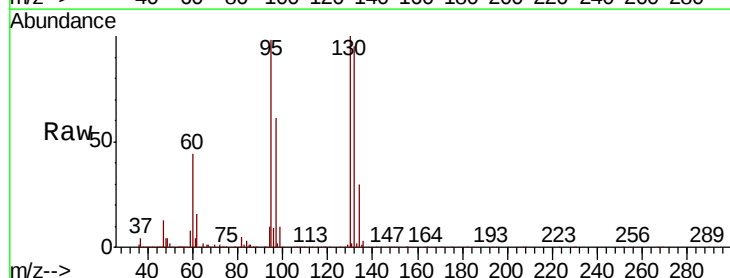
Acq: 24 Sep 2020 14:02

Tgt Ion:130 Resp: 232622

Ion Ratio Lower Upper

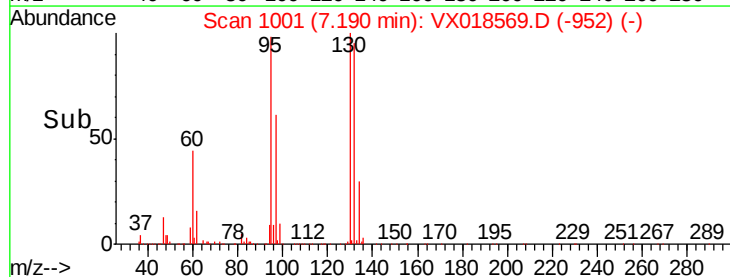
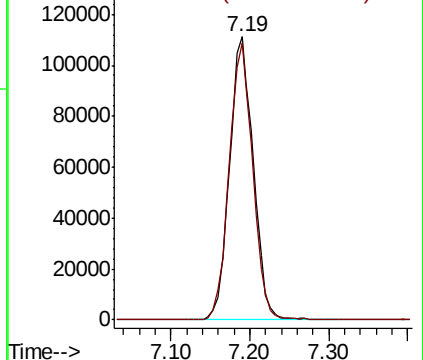
130 100

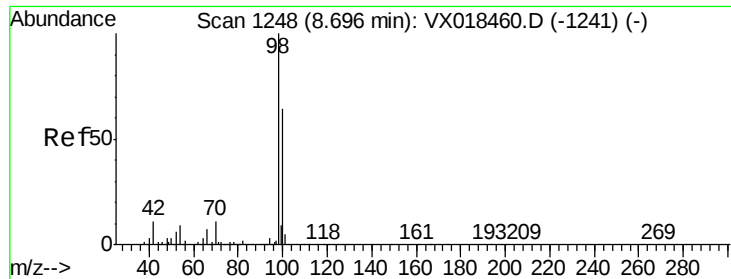
95 97.8 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 48.707 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018569.D

Acq: 24 Sep 2020 14:02

Instrument :

MSVOA_X

ClientSampleId :

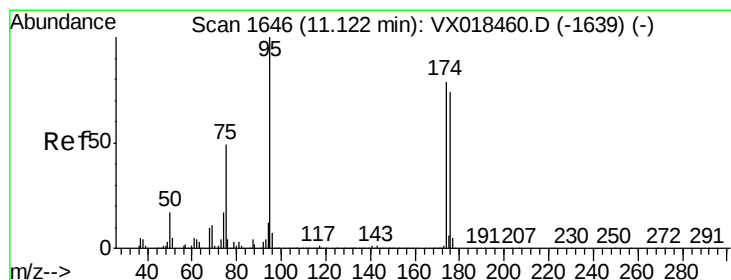
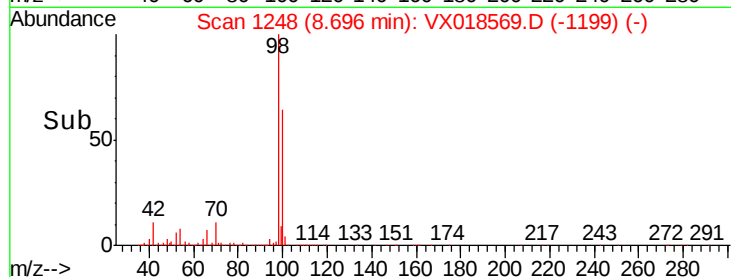
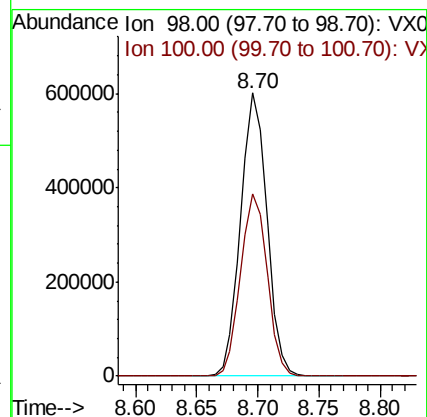
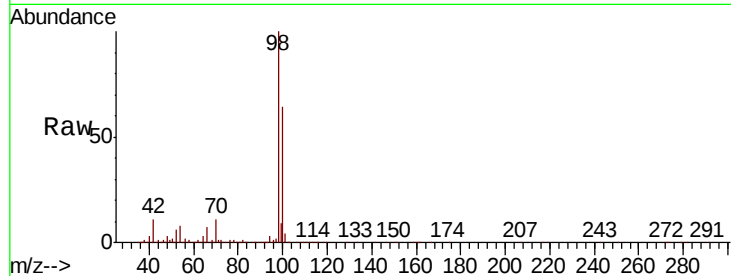
RE132D4-20200918DL

Tot Ion: 98 Resp: 897736

Ion Ratio Lower Upper

98 100

100 65.4 51.7 77.5



#62

4-Bromofluorobenzene

Concen: 44.155 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018569.D

Acq: 24 Sep 2020 14:02

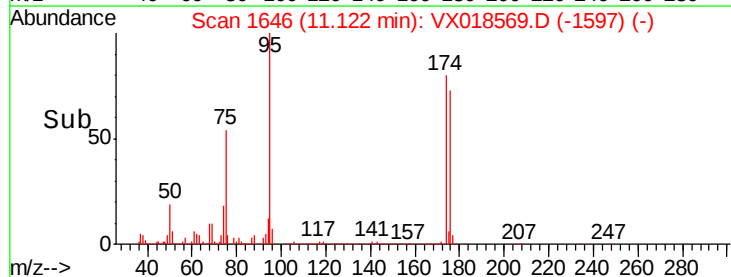
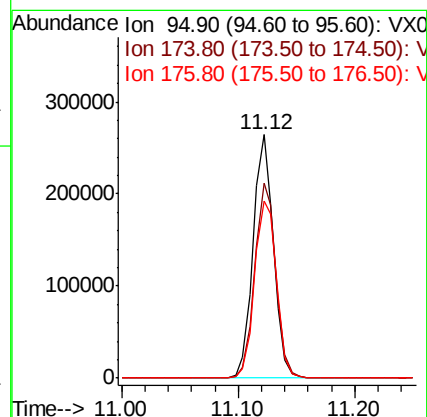
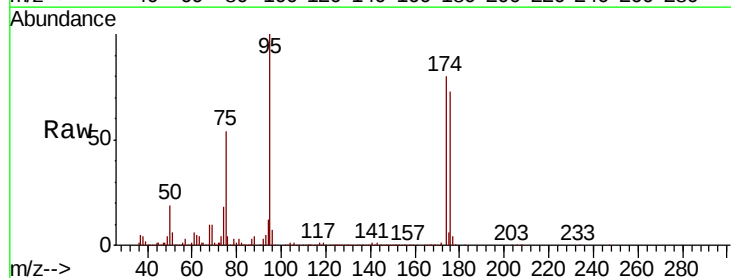
Tgt Ion: 95 Resp: 323722

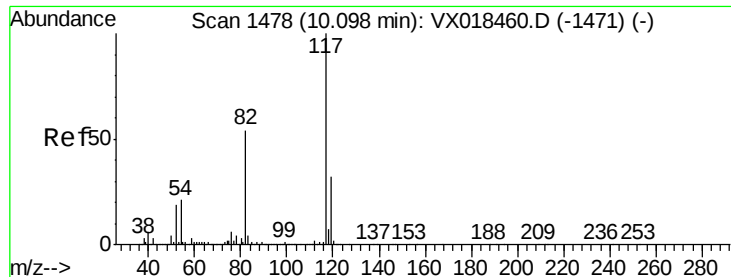
Ion Ratio Lower Upper

95 100

174 83.0 0.0 161.4

176 78.2 0.0 151.4

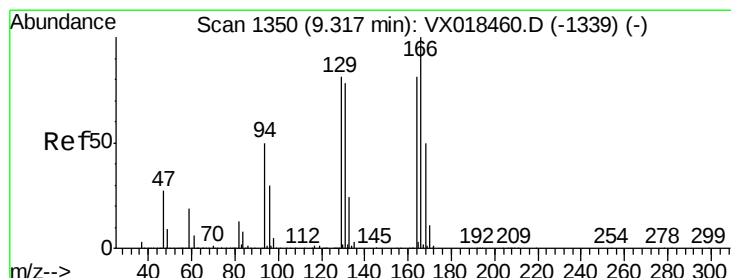
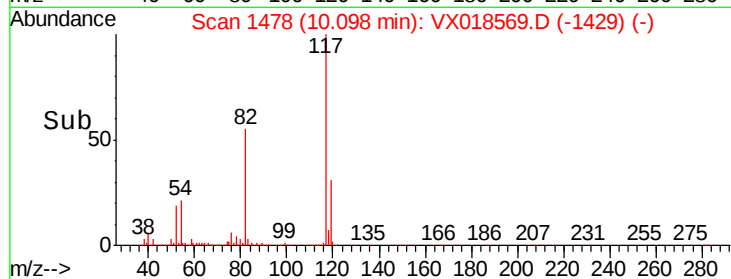
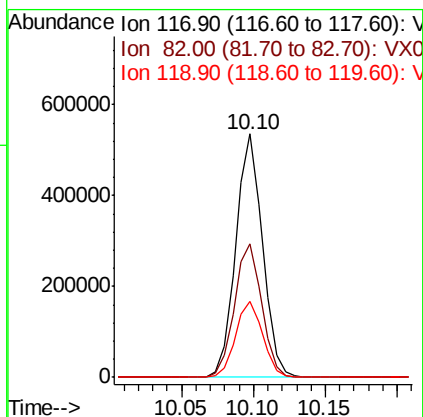
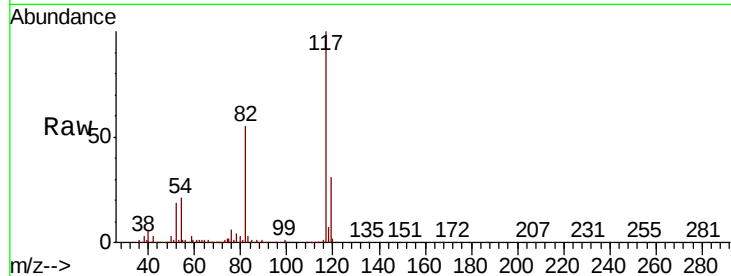




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX018569.D
Acq: 24 Sep 2020 14:02

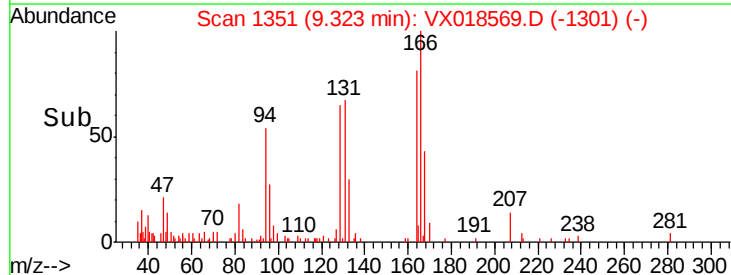
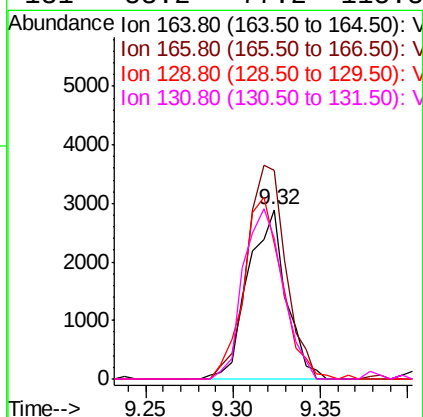
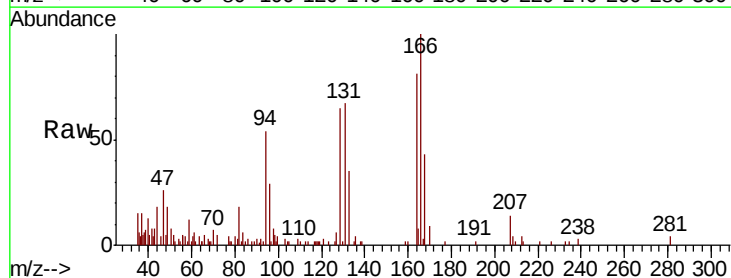
Instrument :
MSVOA_X
ClientSampleId :
RE132D4-20200918DL

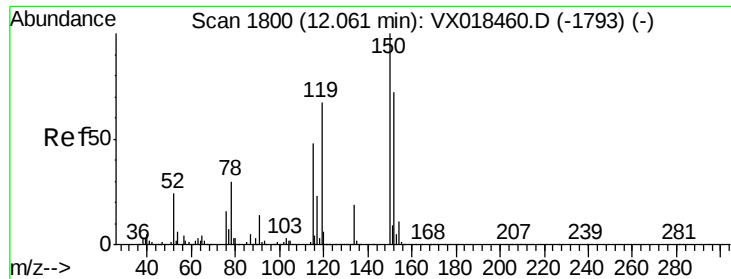
Tot Ion:117 Resp: 694240
Ion Ratio Lower Upper
117 100
82 54.7 43.3 64.9
119 31.0 25.9 38.9



#64
Tetrachloroethene
Concen: 0.800 ug/l
RT: 9.32 min Scan# 1351
Delta R.T. 0.01 min
Lab File: VX018569.D
Acq: 24 Sep 2020 14:02

Tgt Ion:164 Resp: 4372
Ion Ratio Lower Upper
164 100
166 123.5 99.3 148.9
129 80.5 80.7 121.1#
131 83.2 77.2 115.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018569.D

Acq: 24 Sep 2020 14:02

Instrument :

MSVOA_X

ClientSampleId :

RE132D4-20200918DL

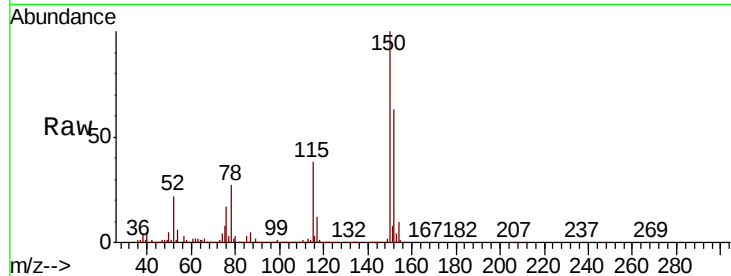
Tot Ion:152 Resp: 340058

Ion Ratio Lower Upper

152 100

115 59.8 41.8 125.4

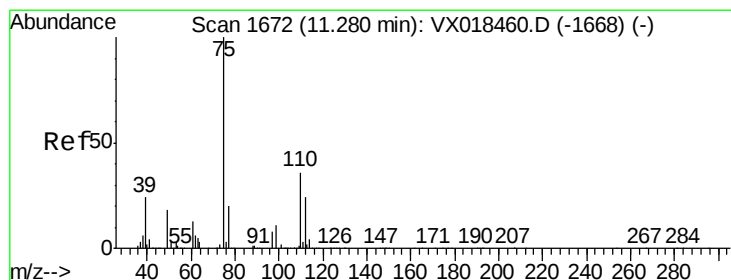
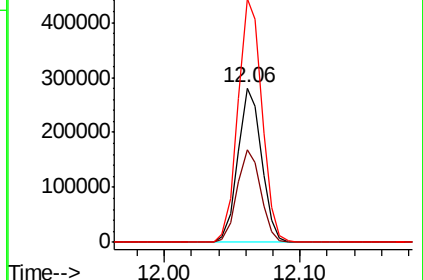
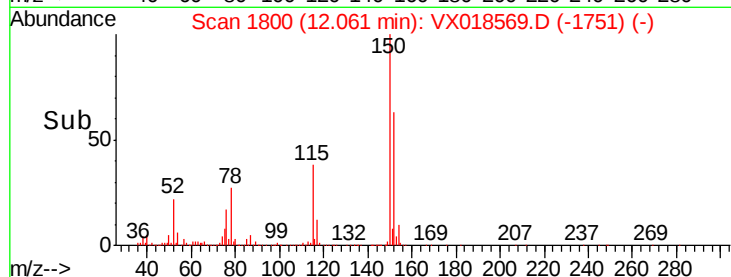
150 159.8 0.0 342.4



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: 24.243 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018569.D

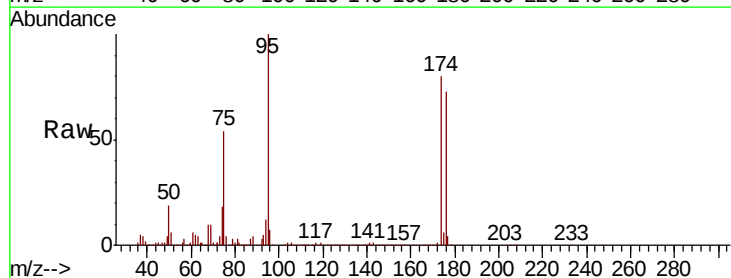
Acq: 24 Sep 2020 14:02

Tgt Ion: 75 Resp: 173240

Ion Ratio Lower Upper

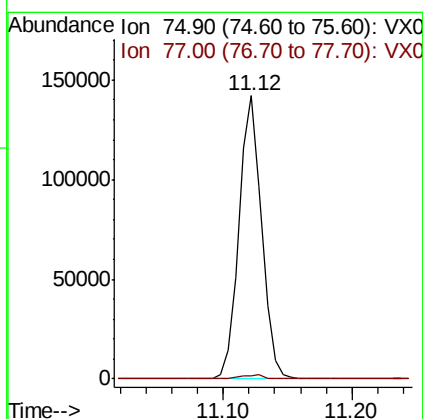
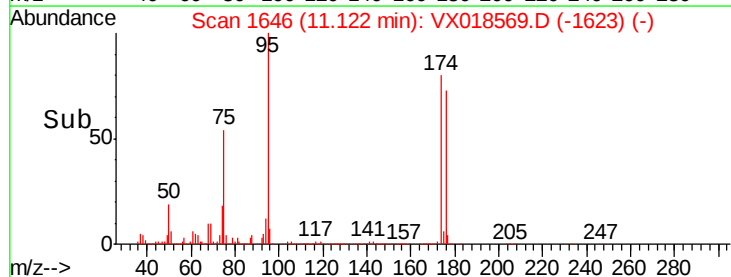
75 100

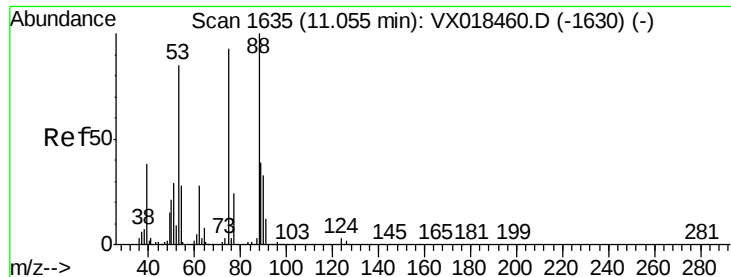
77 1.5 20.9 62.7#



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: 62.121 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX018569.D
 Acq: 24 Sep 2020 14:02

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D4-20200918DL

Tot Ion: 75 Resp: 173240
 Ion Ratio Lower Upper
 75 100
 53 0.3 74.6 111.8#
 89 0.1 36.2 54.4#

