

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX053119\
 Data File : VX010005.D
 Acq On : 01 Jun 2019 00:11
 Operator : JC/SP
 Sample : K3128-02DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0660DL

Quant Time: Jun 01 04:47:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	171682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	273375	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	252513	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	111733	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	114021	47.02	ug/l	0.00
Spiked Amount			Recovery	=	94.04%	
35) Dibromofluoromethane	5.50	113	84437	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
50) Toluene-d8	8.71	98	348964	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
62) 4-Bromofluorobenzene	11.13	95	120004	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	

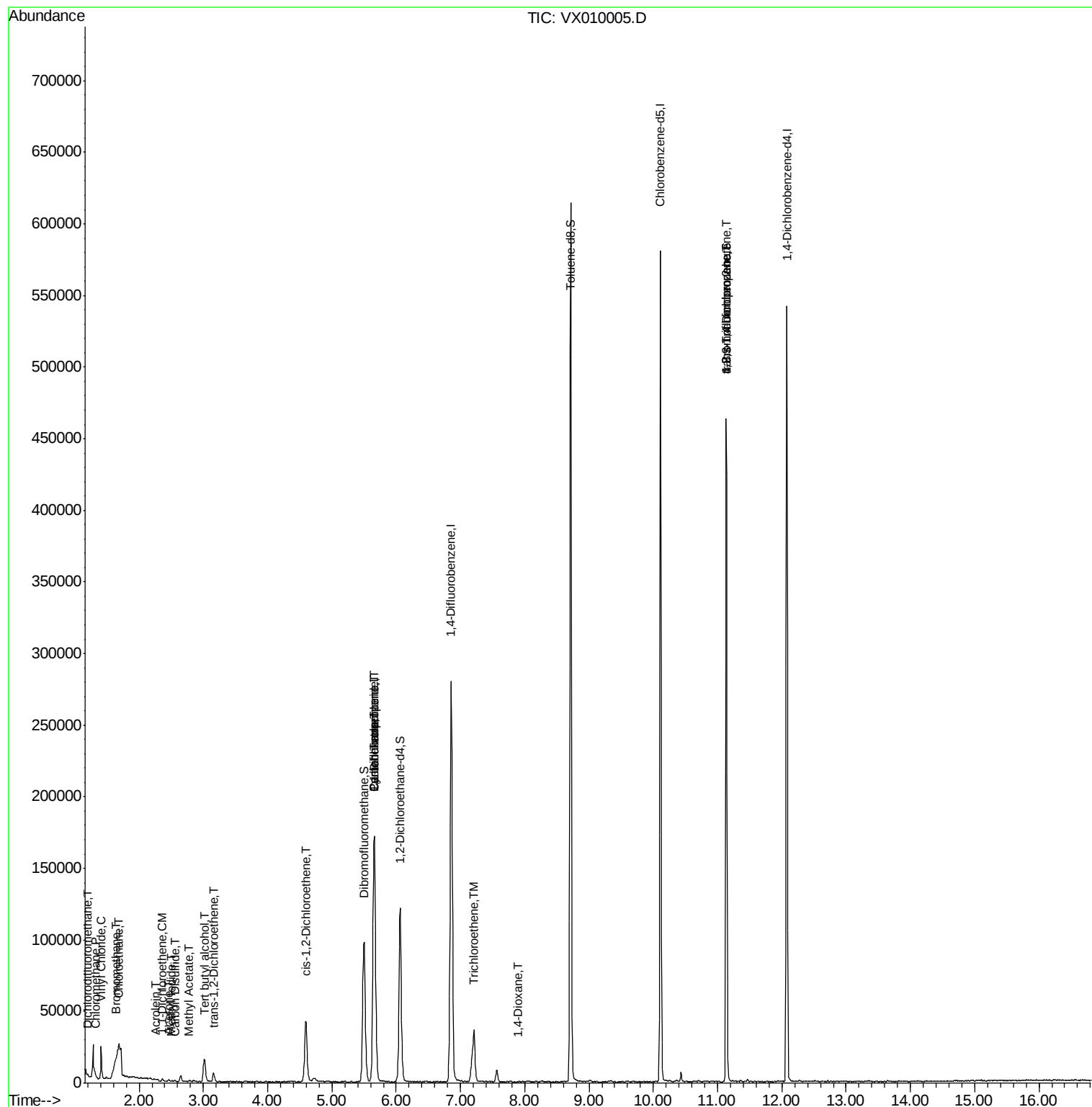
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	752	0.358	ug/l	96
3) Chloromethane	1.32	50	767	0.272	ug/l #	85
4) Vinyl Chloride	1.41	62	15148	5.958	ug/l	100
5) Bromomethane	1.64	94	762	0.495	ug/l	89
6) Chloroethane	1.69	64	2793	1.785	ug/l	99
10) Methyl Iodide	2.51	142	386	4.823	ug/l #	85
11) Tert butyl alcohol	3.02	59	10220	17.124	ug/l #	78
12) 1,1-Dichloroethene	2.37	96	525	0.302	ug/l #	67
13) Acrolein	2.27	56	98	21.309	ug/l #	1
16) Acetone	2.45	43	1811	1.292	ug/l	99
17) Carbon Disulfide	2.56	76	860	0.547	ug/l #	78
18) Methyl Acetate	2.78	43	1363	0.418	ug/l	96
21) trans-1,2-Dichloroethene	3.16	96	2531	1.308	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	25961	11.625	ug/l	88
31) Cyclohexane	5.65	56	3986	1.080	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13126	4.732	ug/l #	51
38) Carbon Tetrachloride	5.66	117	15962	6.660	ug/l #	16
44) Trichloroethene	7.21	130	12327	6.168	ug/l	96
49) 1,4-Dioxane	7.88	88	24	0.418	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	61864	23.154	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61864	57.286	ug/l #	10

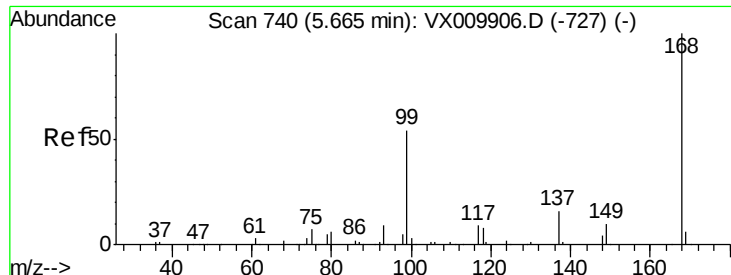
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleID :
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Quant Time: Jun 01 04:47:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
Quant Title : SW846 8260
QLast Update : Wed May 29 04:00:56 2019
Response via : Initial Calibration

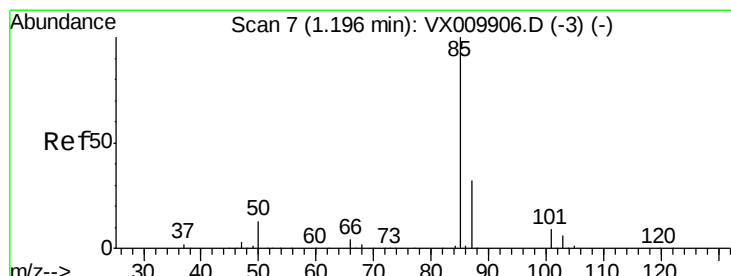
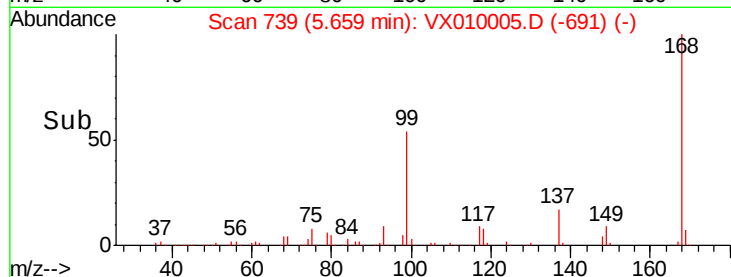
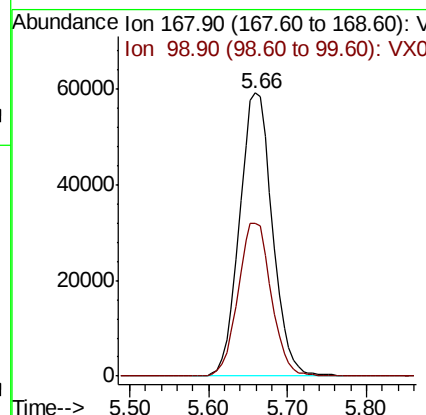
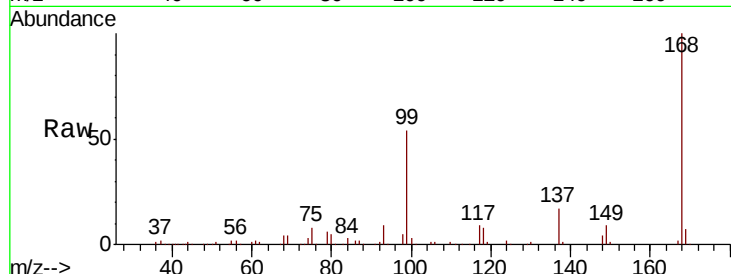




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.01 min
Lab File: VX010005.D
Acq: 01 Jun 2019 00:11

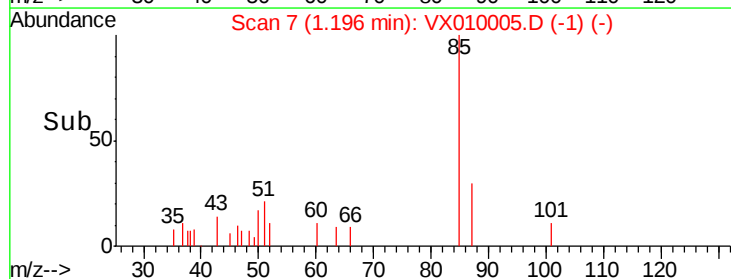
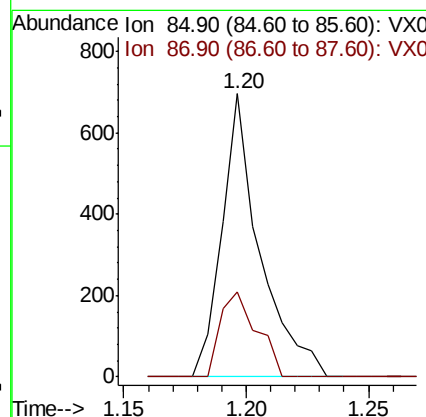
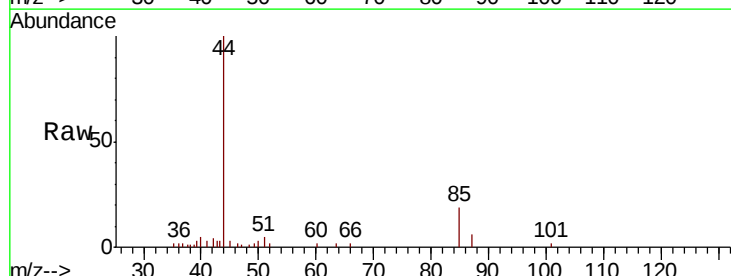
Instrument :
MSVOA_X
ClientSampleID :
S32-0660DL

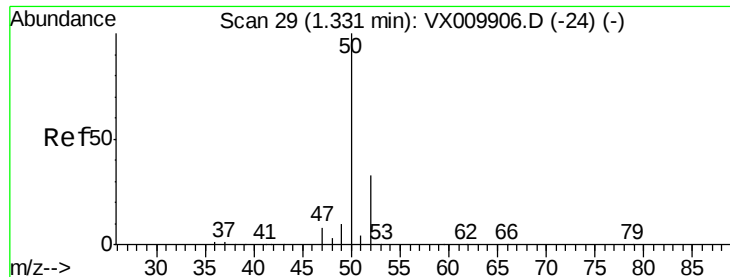
Tot Ion:168 Resp: 171682
Ion Ratio Lower Upper
168 100
99 53.9 43.0 64.6



#2
Dichlorodifluoromethane
Concen: 0.358 ug/l
RT: 1.20 min Scan# 7
Delta R.T. -0.00 min
Lab File: VX010005.D
Acq: 01 Jun 2019 00:11

Tgt Ion: 85 Resp: 752
Ion Ratio Lower Upper
85 100
87 30.0 16.1 48.2





#3

Chloromethane

Concen: 0.272 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX010005.D

Acq: 01 Jun 2019 00:11

Instrument :

MSVOA_X

ClientSampled :

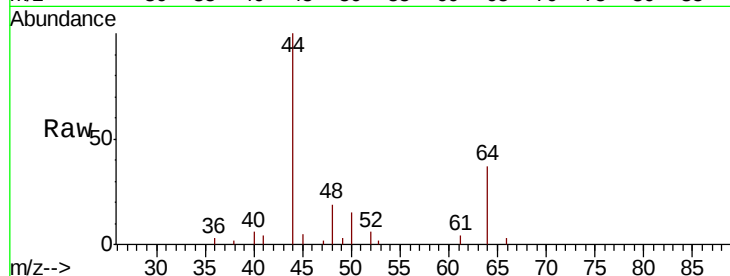
S32-0660DL

Tot Ion: 50 Resp: 767

Ion Ratio Lower Upper

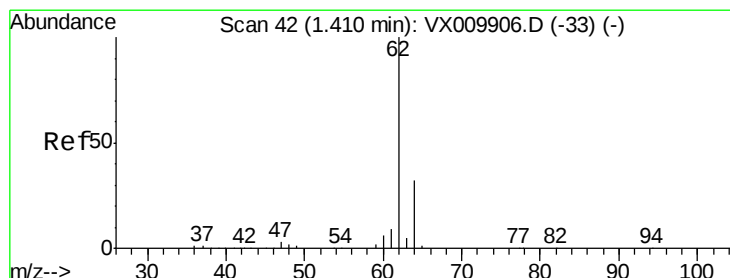
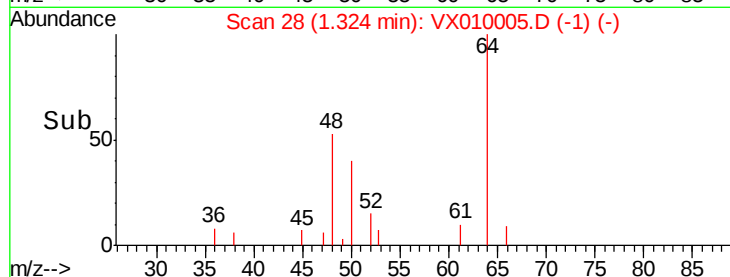
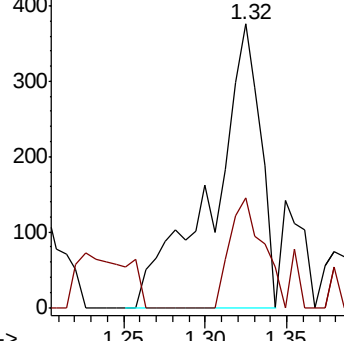
50 100

52 24.2 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 5.958 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010005.D

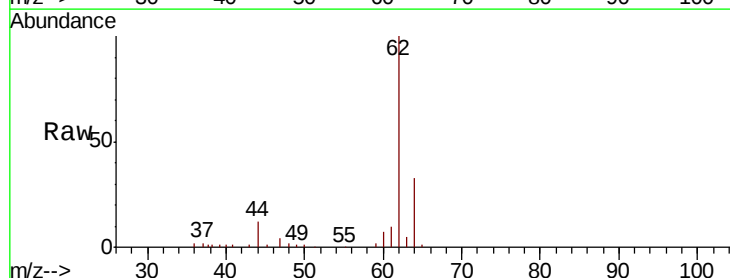
Acq: 01 Jun 2019 00:11

Tgt Ion: 62 Resp: 15148

Ion Ratio Lower Upper

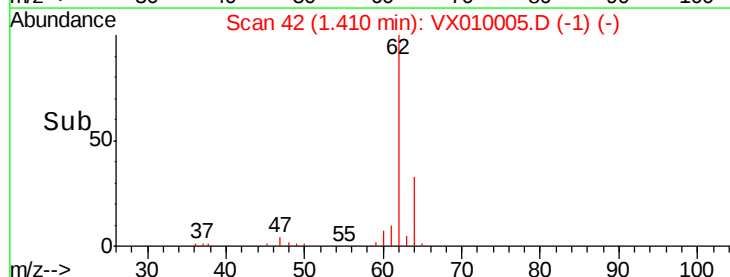
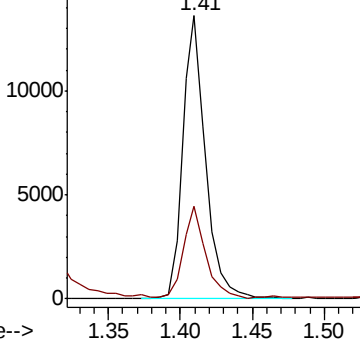
62 100

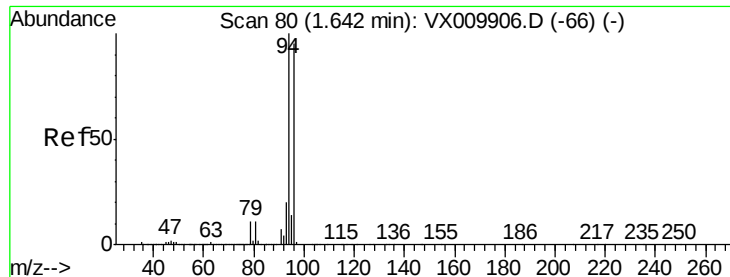
64 32.2 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.495 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX010005.D

Acq: 01 Jun 2019 00:11

Instrument :

MSVOA_X

ClientSampleId :

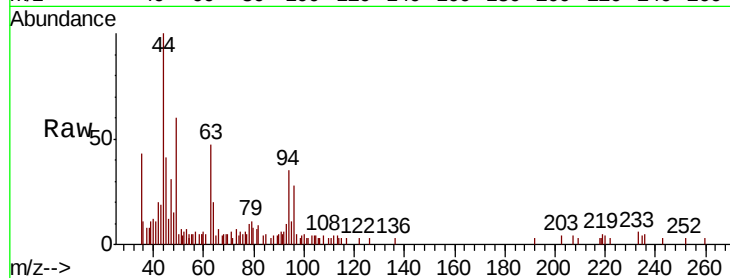
S32-0660DL

Tot Ion: 94 Resp: 762

Ion Ratio Lower Upper

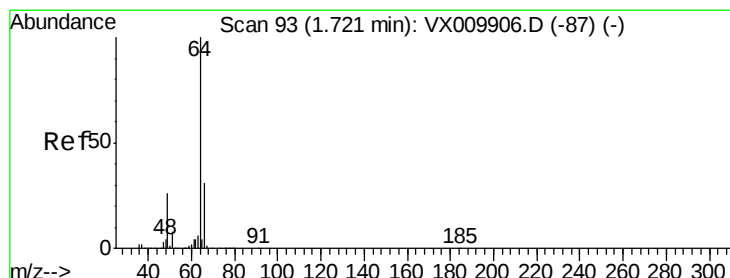
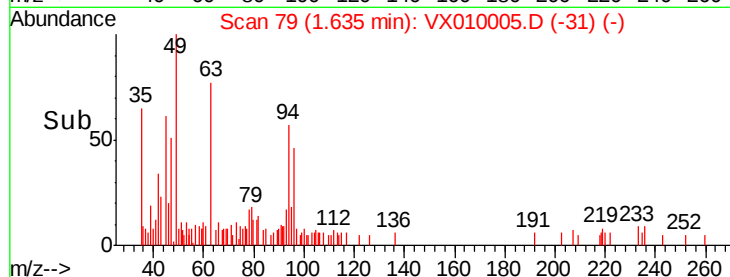
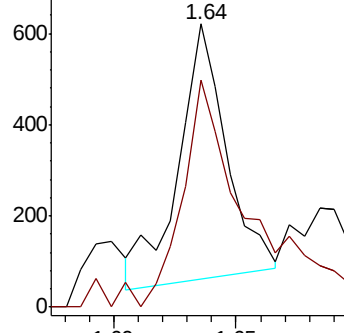
94 100

96 85.1 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.785 ug/l

RT: 1.69 min Scan# 88

Delta R.T. -0.03 min

Lab File: VX010005.D

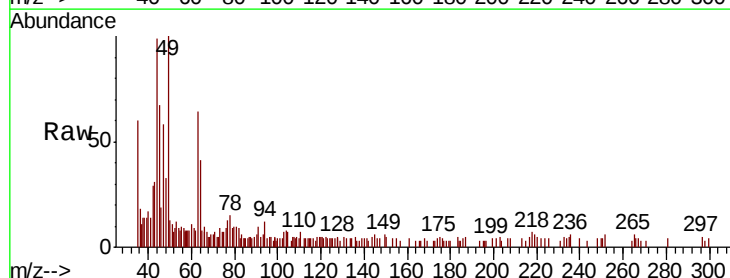
Acq: 01 Jun 2019 00:11

Tgt Ion: 64 Resp: 2793

Ion Ratio Lower Upper

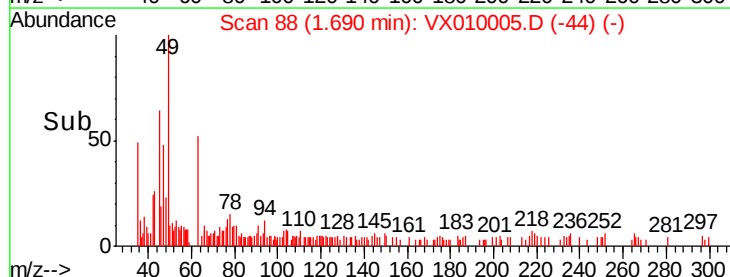
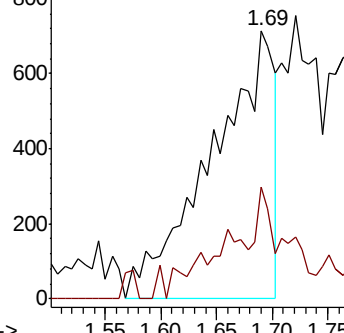
64 100

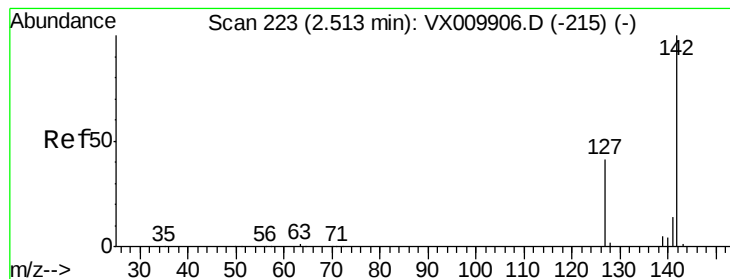
66 32.1 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

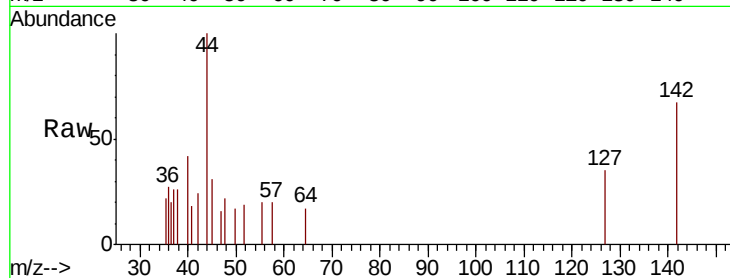




#10
Methvl Iodide
Concen: 4.823 ug/l
RT: 2.51 min Scan# 222
Delta R.T. -0.01 min
Lab File: VX010005.D
Acq: 01 Jun 2019 00:11

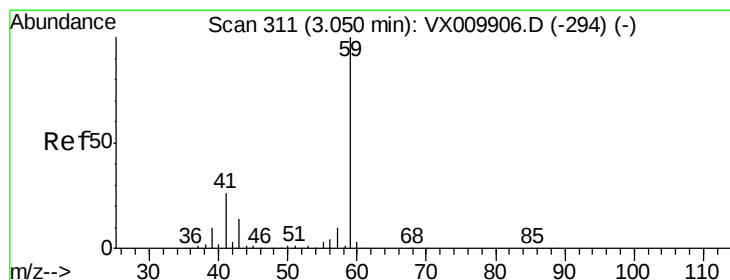
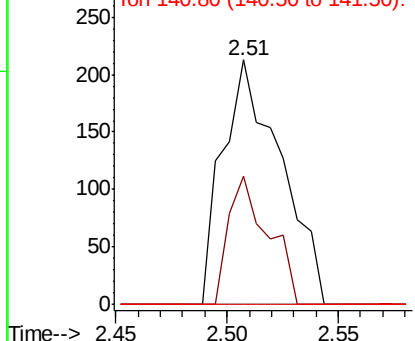
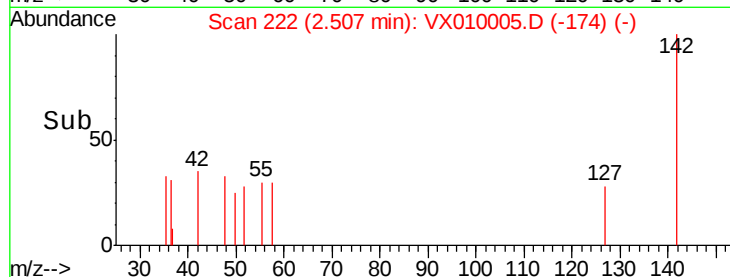
Instrument :
MSVOA_X
ClientSampled :
S32-0660DL

Tot Ion:142 Resp: 386
Ion Ratio Lower Upper
142 100
127 35.8 33.0 49.4
141 0.0 11.4 17.0#



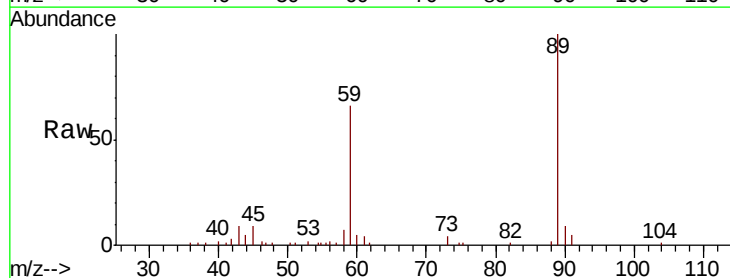
Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

2.51



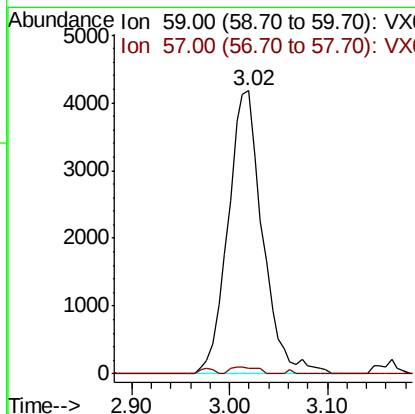
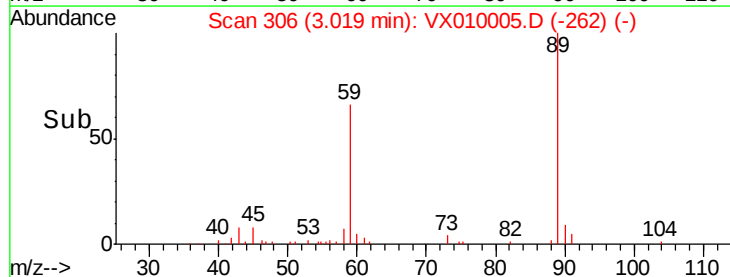
#11
Tert butyl alcohol
Concen: 17.124 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010005.D
Acq: 01 Jun 2019 00:11

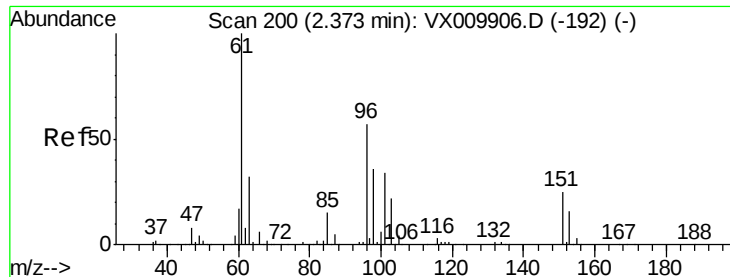
Tgt Ion: 59 Resp: 10220
Ion Ratio Lower Upper
59 100
57 2.0 8.2 12.2#



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

3.02





#12

1,1-Dichloroethene

Concen: 0.302 ug/l

RT: 2.37 min Scan# 199

Delta R.T. -0.01 min

Lab File: VX010005.D

Acq: 01 Jun 2019 00:11

Instrument :

MSVOA_X

ClientSampled :

S32-0660DL

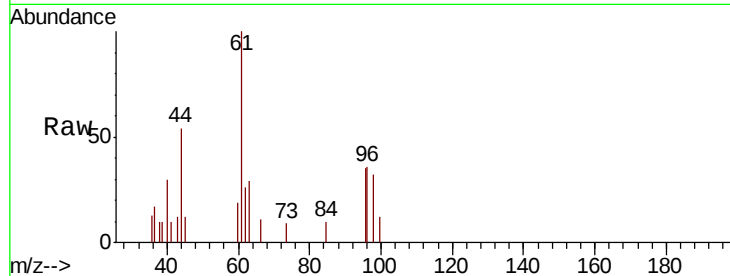
Tot Ion: 96 Resp: 525

Ion Ratio Lower Upper

96 100

61 125.2 140.7 211.1#

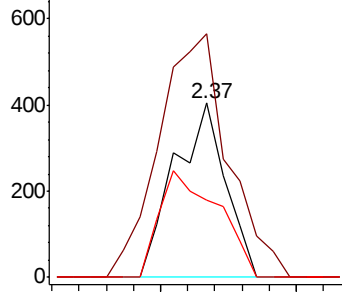
98 44.6 50.1 75.1#



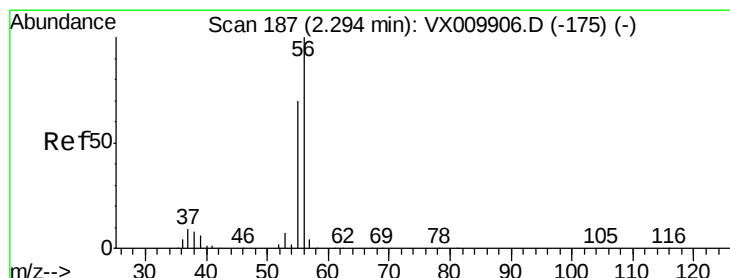
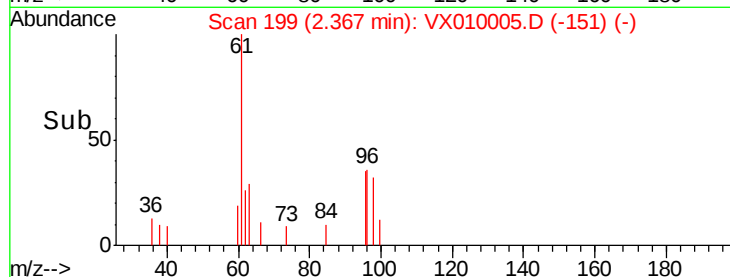
Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->



#13

Acrolein

Concen: 21.309 ug/l

RT: 2.27 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX010005.D

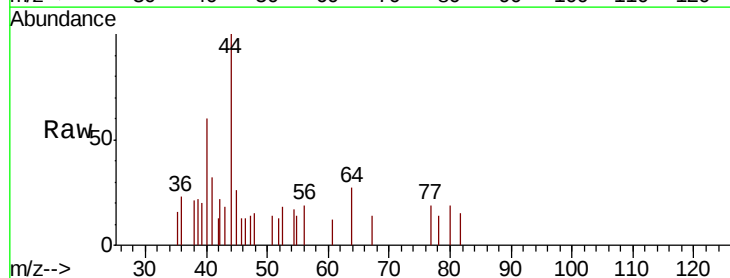
Acq: 01 Jun 2019 00:11

Tgt Ion: 56 Resp: 98

Ion Ratio Lower Upper

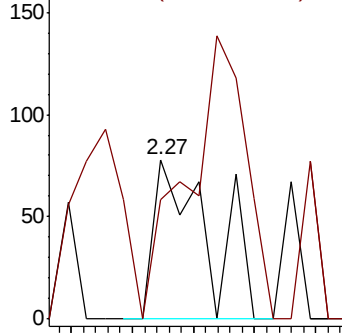
56 100

55 186.7 57.0 85.4#

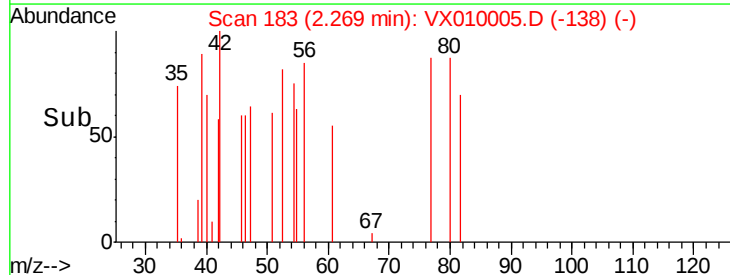


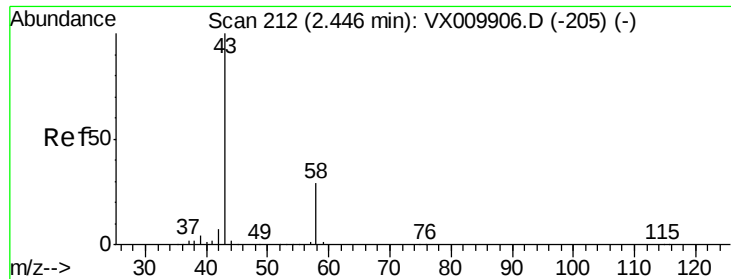
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->





#16

Acetone

Concen: 1.292 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX010005.D

Acq: 01 Jun 2019 00:11

Instrument :

MSVOA_X

ClientSampled :

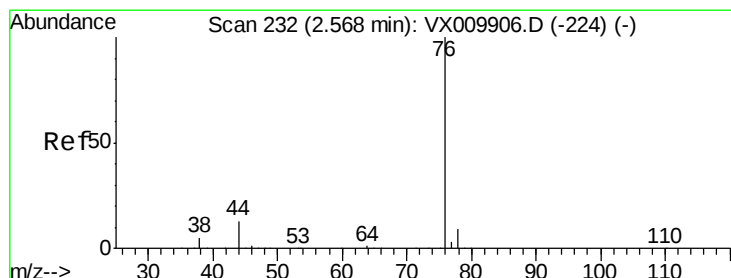
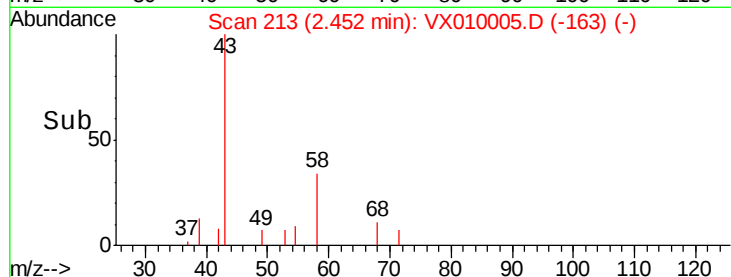
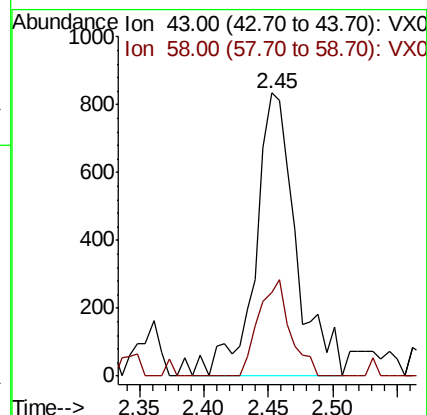
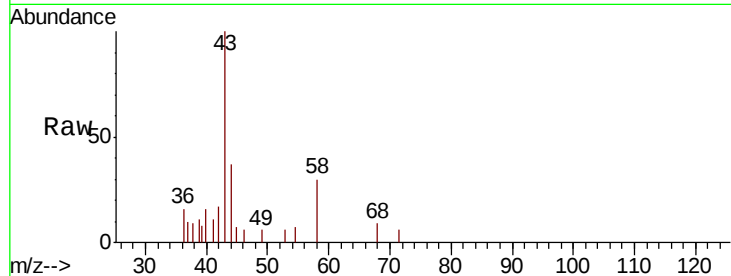
S32-0660DL

Tot Ion: 43 Resp: 1811

Ion Ratio Lower Upper

43 100

58 29.7 23.2 34.8



#17

Carbon Disulfide

Concen: 0.547 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX010005.D

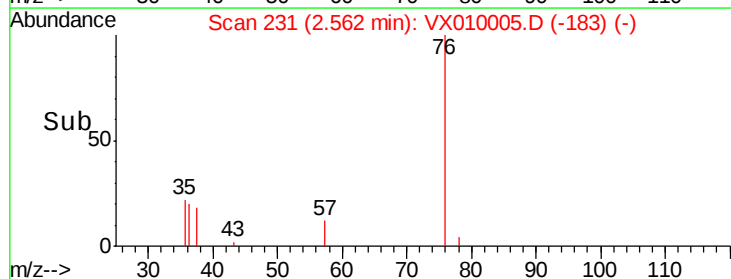
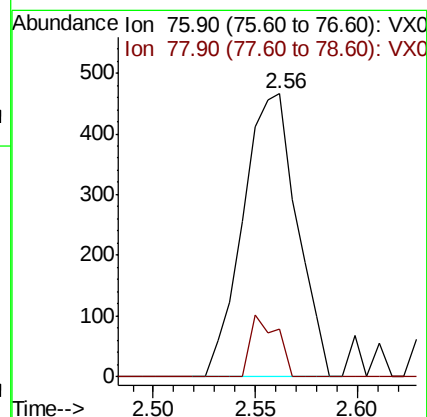
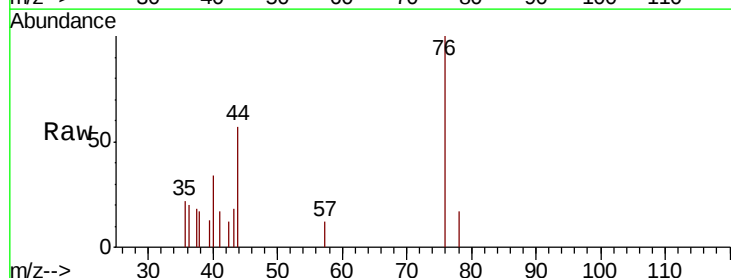
Acq: 01 Jun 2019 00:11

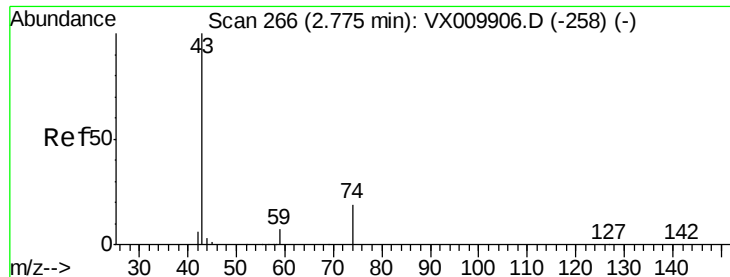
Tgt Ion: 76 Resp: 860

Ion Ratio Lower Upper

76 100

78 16.7 7.0 10.6#

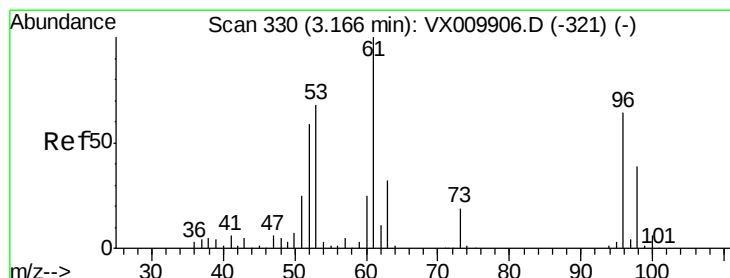
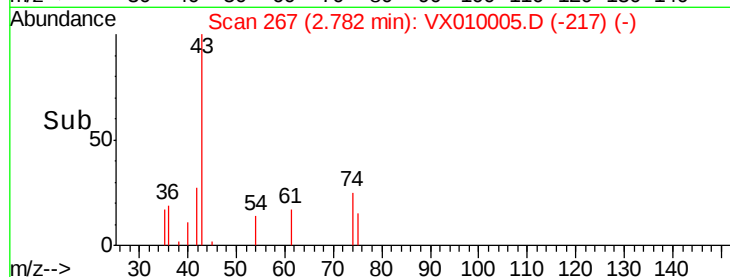
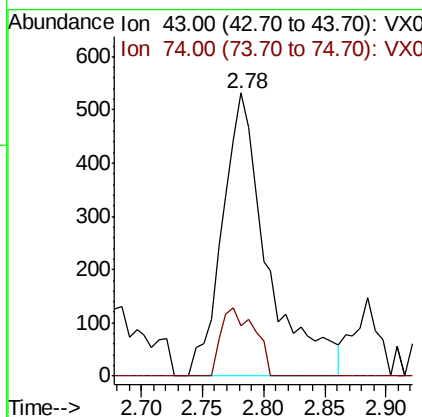
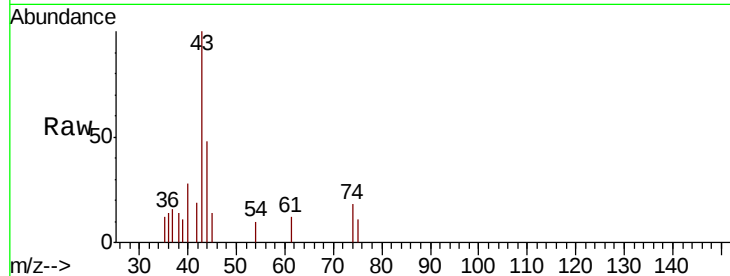




#18
Methvl Acetate
Concen: 0.418 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX010005.D
Acq: 01 Jun 2019 00:11

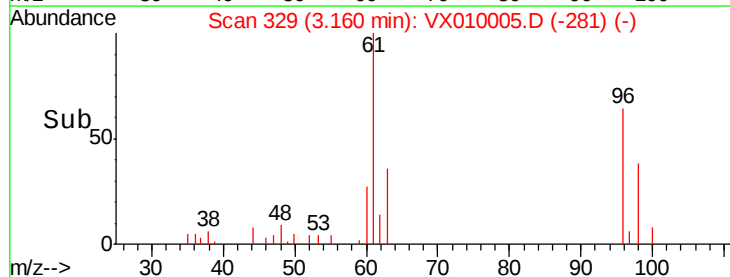
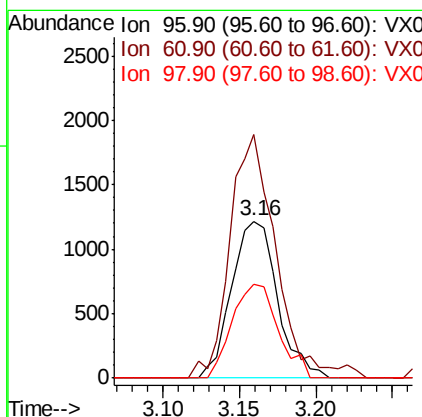
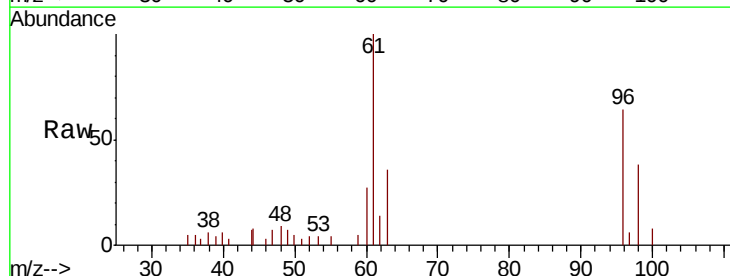
Instrument :
MSVOA_X
ClientSampleId :
S32-0660DL

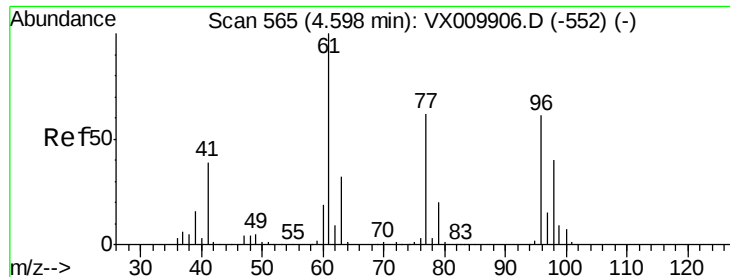
Tot Ion: 43 Resp: 1363
Ion Ratio Lower Upper
43 100
74 17.8 15.8 23.6



#21
trans-1,2-Dichloroethene
Concen: 1.308 ug/l
RT: 3.16 min Scan# 329
Delta R.T. -0.01 min
Lab File: VX010005.D
Acq: 01 Jun 2019 00:11

Tgt Ion: 96 Resp: 2531
Ion Ratio Lower Upper
96 100
61 155.5 125.7 188.5
98 59.7 49.0 73.6



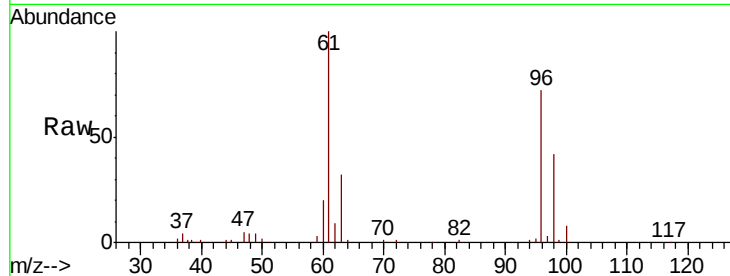


#27

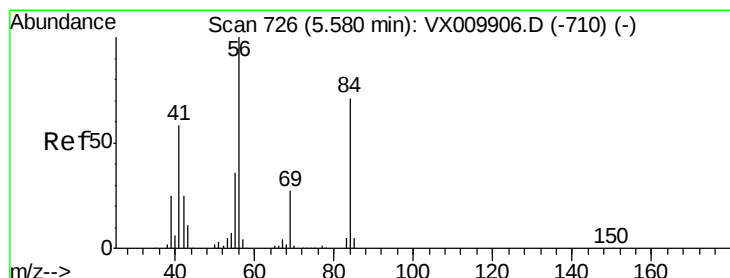
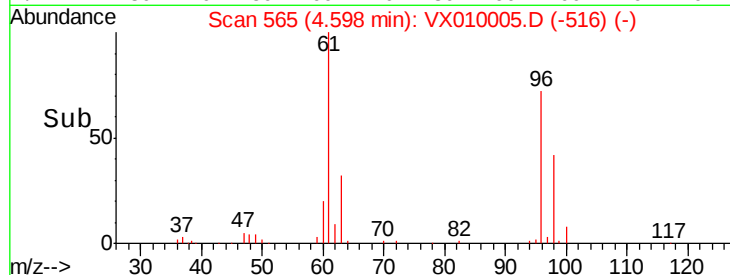
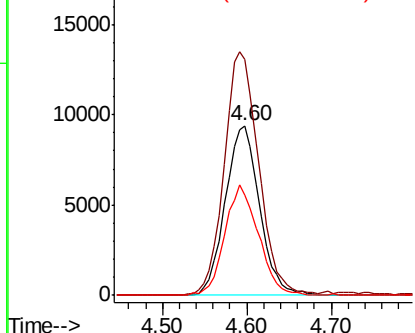
cis-1,2-Dichloroethene
 Concen: 11.625 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX010005.D
 Acq: 01 Jun 2019 00:11

Instrument :
 MSVOA_X
 ClientSampleID :
 S32-0660DL

Tot Ion: 96 Resp: 25961
 Ion Ratio Lower Upper
 96 100
 61 145.1 0.0 334.0
 98 63.8 0.0 131.6



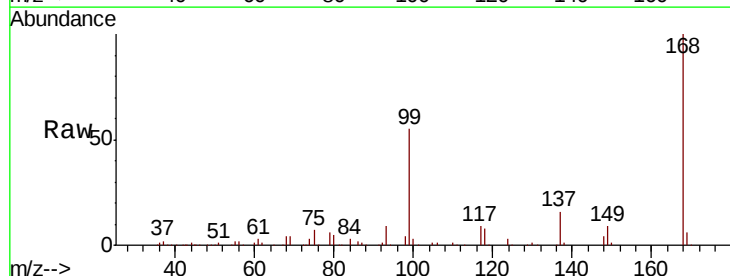
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



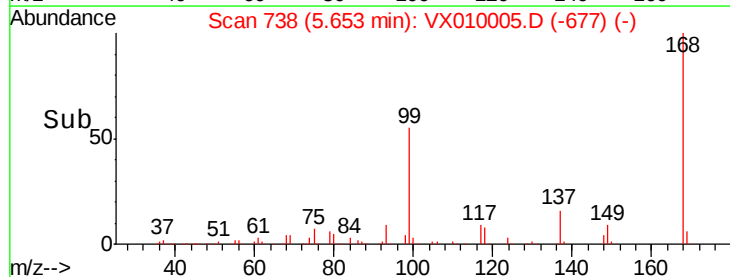
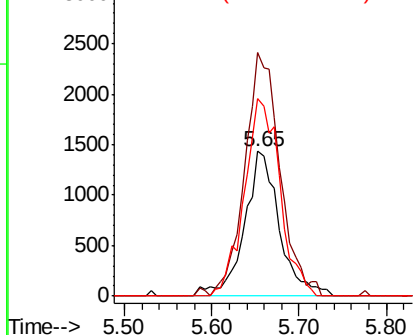
#31

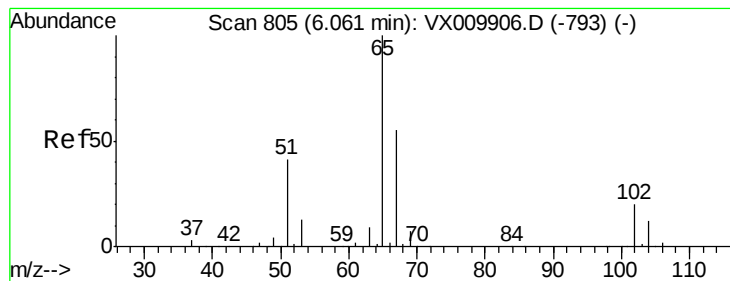
Cyclohexane
 Concen: 1.080 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. 0.07 min
 Lab File: VX010005.D
 Acq: 01 Jun 2019 00:11

Tgt Ion: 56 Resp: 3986
 Ion Ratio Lower Upper
 56 100
 69 168.1 21.6 32.4#
 84 136.5 56.8 85.2#



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: 47.016 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010005.D

Acq: 01 Jun 2019 00:11

Instrument :

MSVOA_X

ClientSampleId :

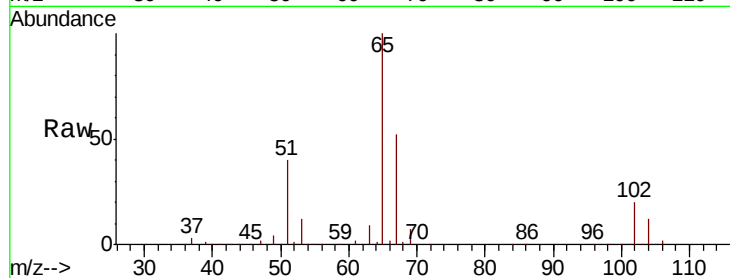
S32-0660DL

Tot Ion: 65 Resp: 114021

Ion Ratio Lower Upper

65 100

67 53.1 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

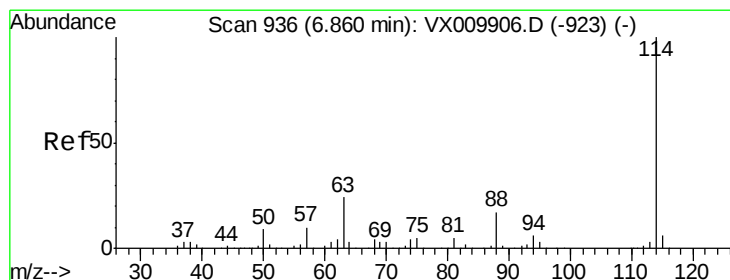
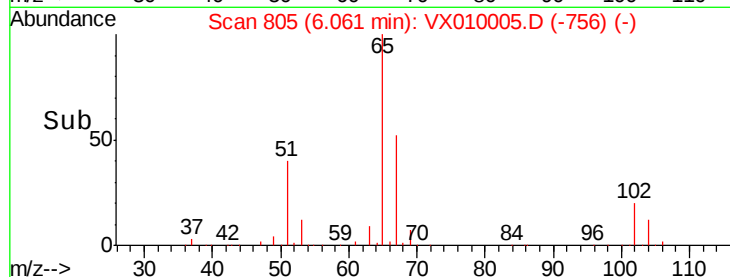
30000

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# 935

Delta R.T. -0.01 min

Lab File: VX010005.D

Acq: 01 Jun 2019 00:11

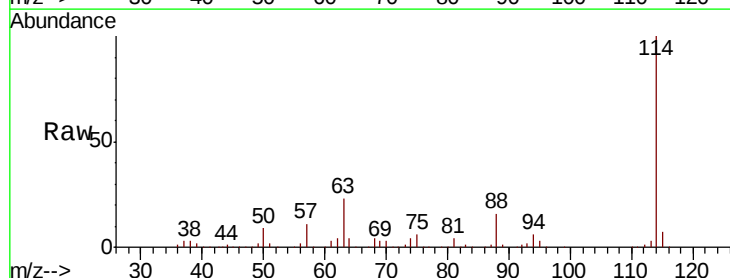
Tgt Ion: 114 Resp: 273375

Ion Ratio Lower Upper

114 100

63 23.3 0.0 47.4

88 16.3 0.0 33.0



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

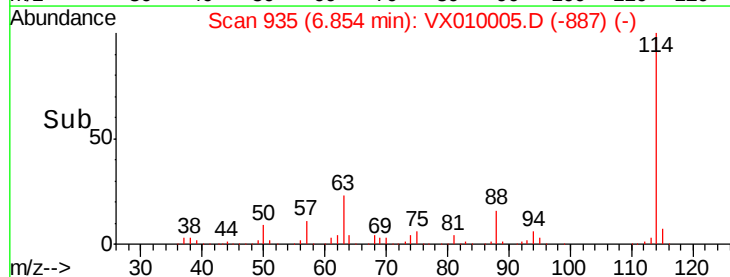
150000

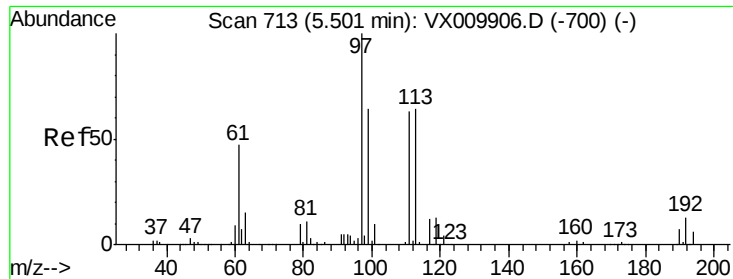
100000

50000

0

Time--> 6.70 6.80 6.90 7.00

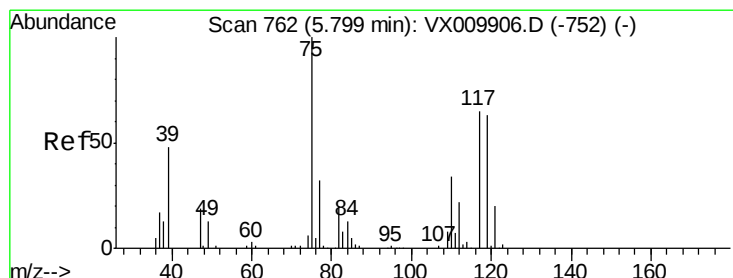
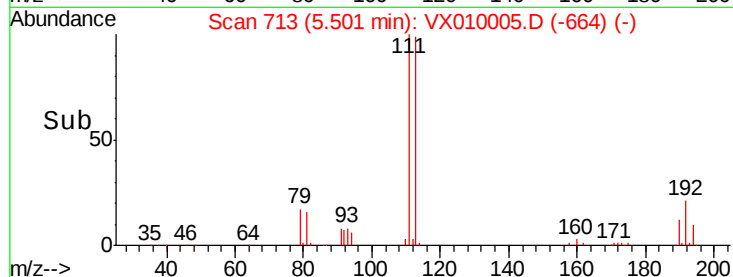
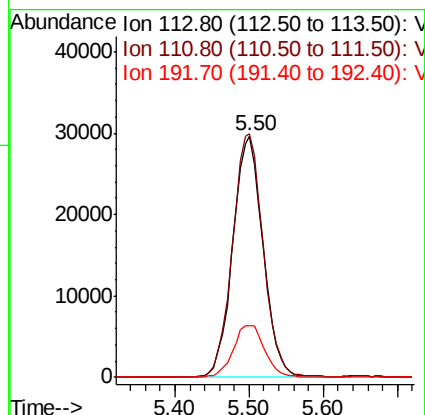
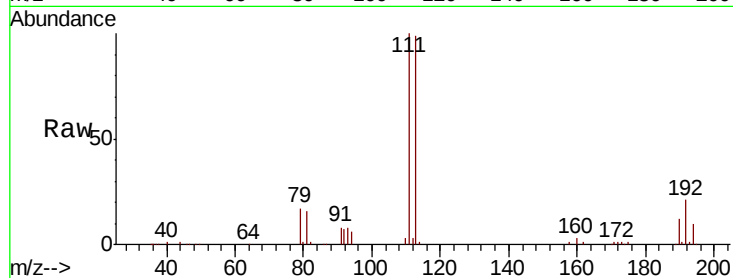




#35
 Dibromofluoromethane
 Concen: 49.128 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX010005.D
 Acq: 01 Jun 2019 00:11

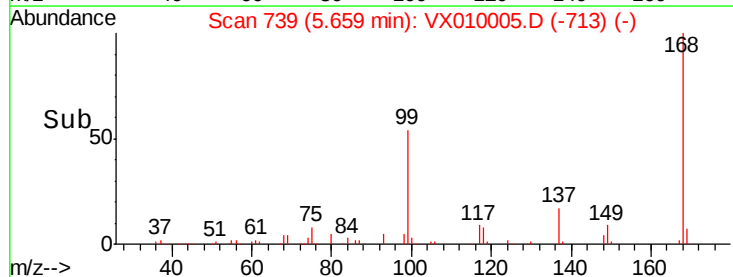
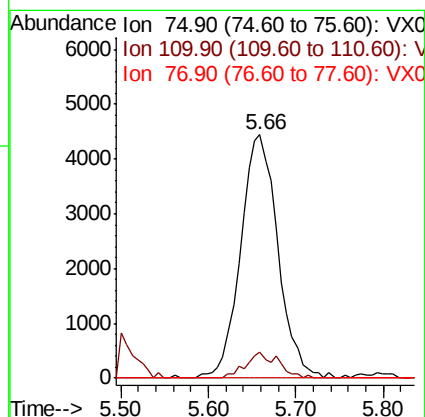
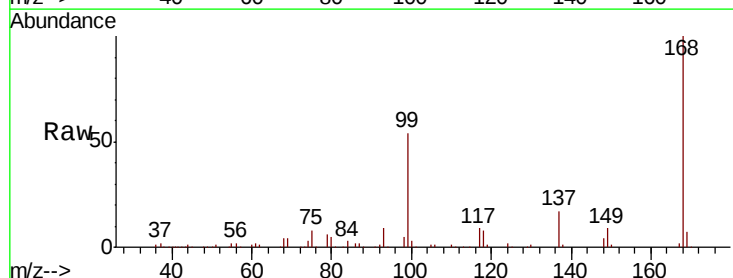
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0660DL

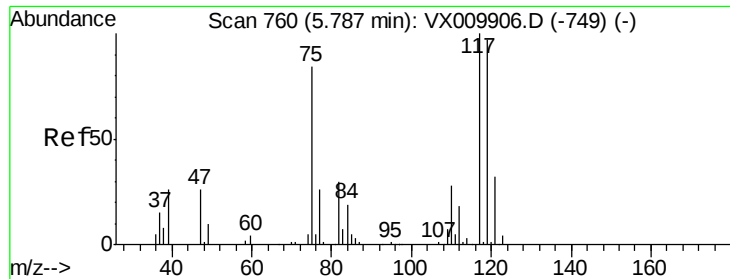
Tot Ion:113 Resp: 84437
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.2 123.2
 192 22.3 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.732 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010005.D
 Acq: 01 Jun 2019 00:11

Tgt Ion: 75 Resp: 13126
 Ion Ratio Lower Upper
 75 100
 110 9.3 16.7 50.1#
 77 0.0 25.0 37.4#

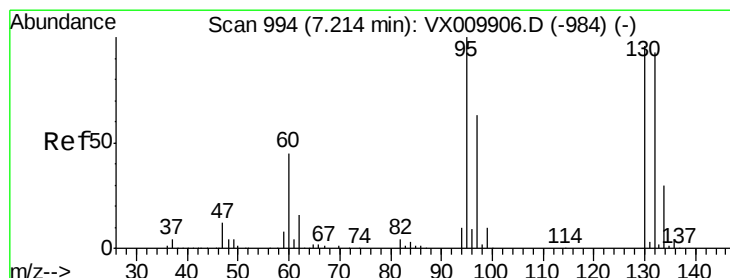
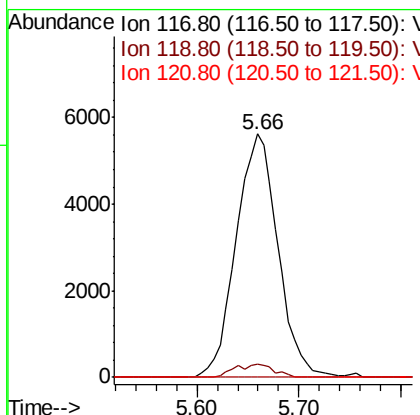
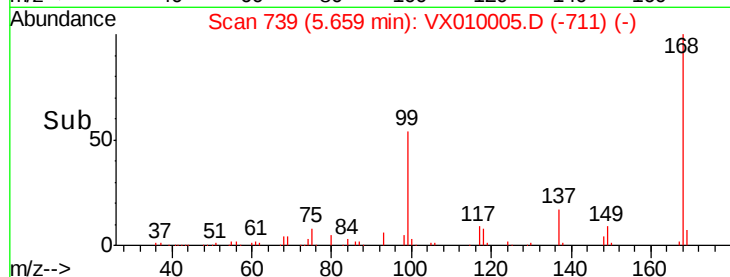
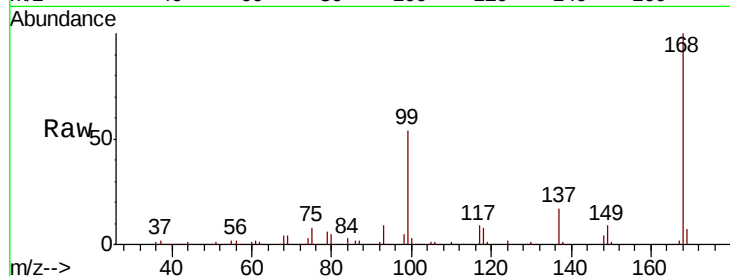




#38
Carbon Tetrachloride
Concen: 6.660 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX010005.D
Acq: 01 Jun 2019 00:11

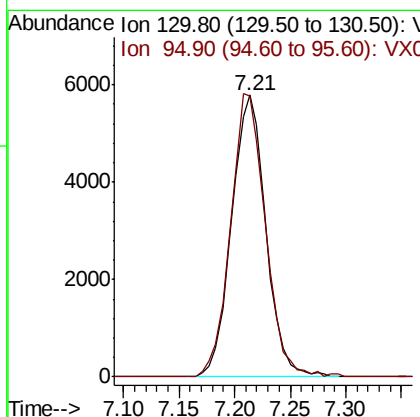
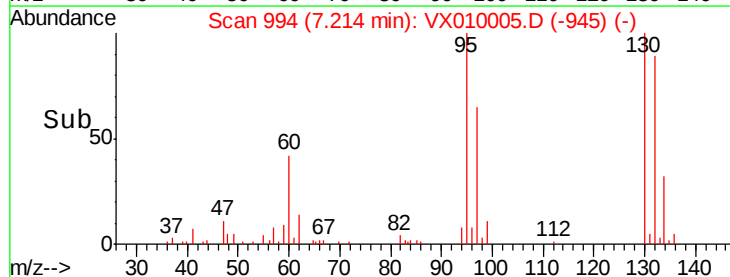
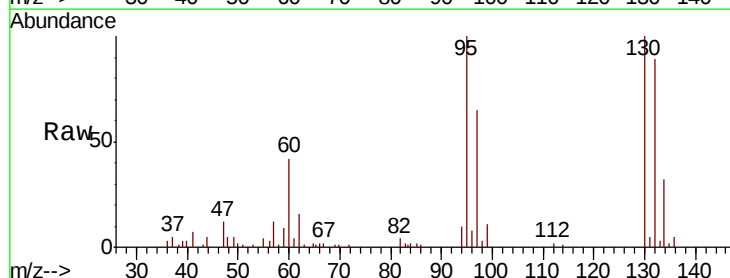
Instrument :
MSVOA_X
ClientSampled :
S32-0660DL

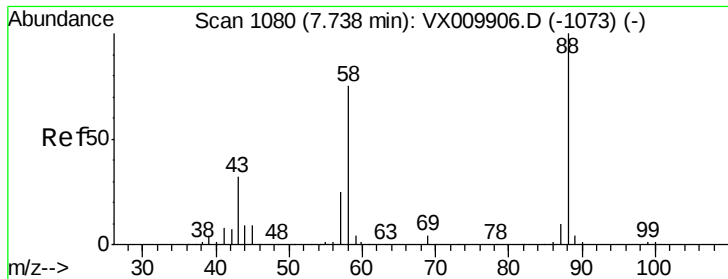
Tot Ion:117 Resp: 15962
Ion Ratio Lower Upper
117 100
119 5.6 77.3 115.9#
121 0.0 25.4 38.0#



#44
Trichloroethene
Concen: 6.168 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX010005.D
Acq: 01 Jun 2019 00:11

Tgt Ion:130 Resp: 12327
Ion Ratio Lower Upper
130 100
95 99.8 0.0 207.4





#49

1,4-Dioxane

Concen: 0.418 ug/l

RT: 7.88 min Scan# 1104

Delta R.T. 0.15 min

Lab File: VX010005.D

Acq: 01 Jun 2019 00:11

Instrument :

MSVOA_X

ClientSampled :

S32-0660DL

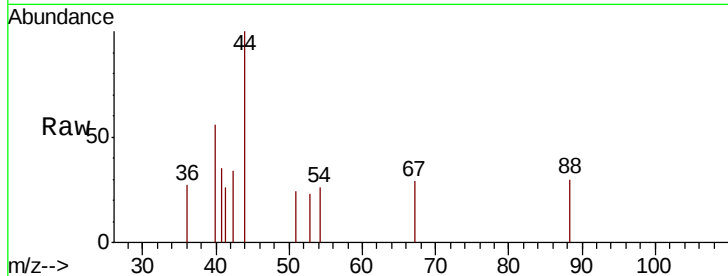
Tot Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 270.8 30.2 45.4#

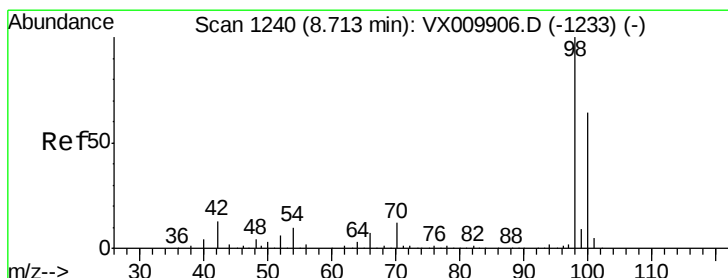
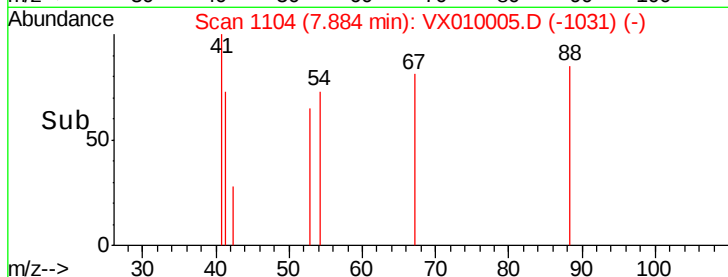
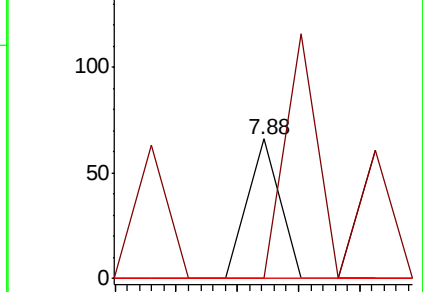
58 0.0 64.0 96.0#



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



#50

Toluene-d8

Concen: 50.000 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010005.D

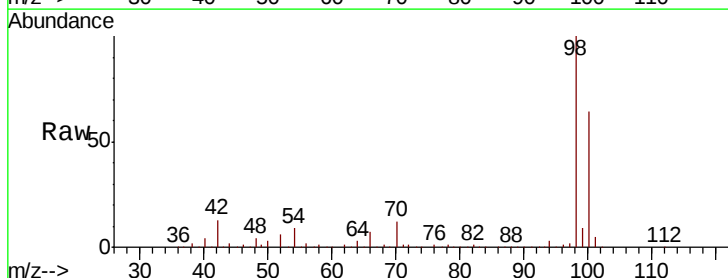
Acq: 01 Jun 2019 00:11

Tgt Ion: 98 Resp: 348964

Ion Ratio Lower Upper

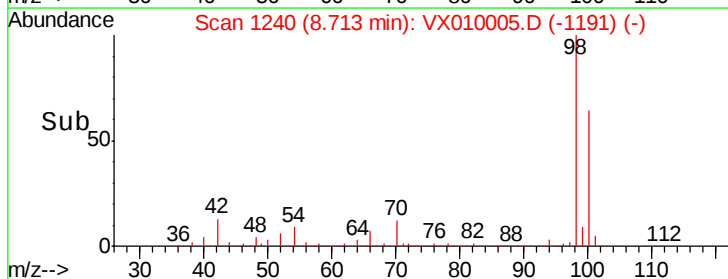
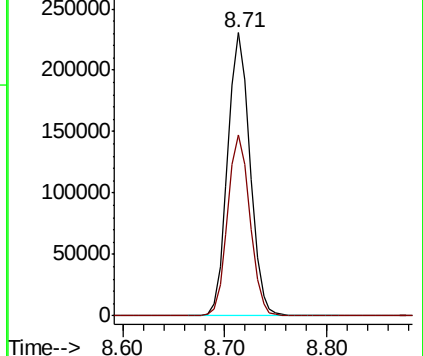
98 100

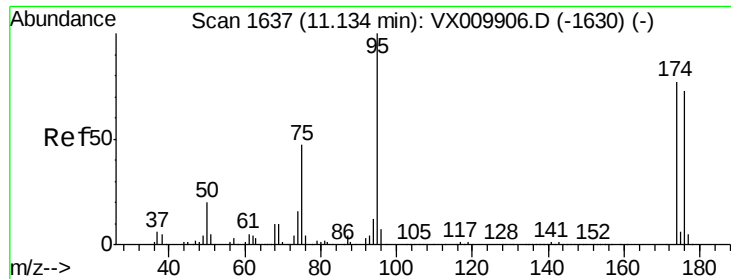
100 63.9 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 47.870 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010005.D

Acq: 01 Jun 2019 00:11

Instrument :

MSVOA_X

ClientSampled :

S32-0660DL

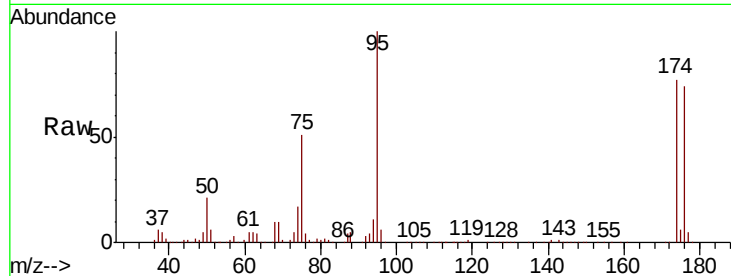
Tot Ion: 95 Resp: 120004

Ion Ratio Lower Upper

95 100

174 83.0 0.0 160.4

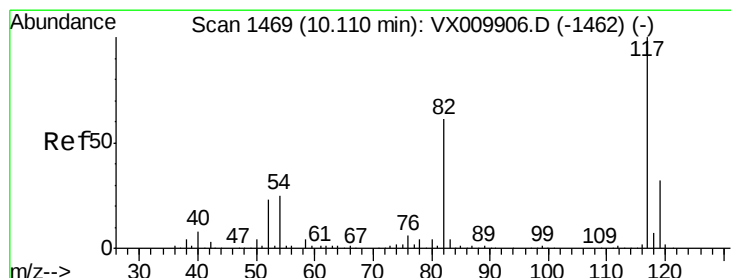
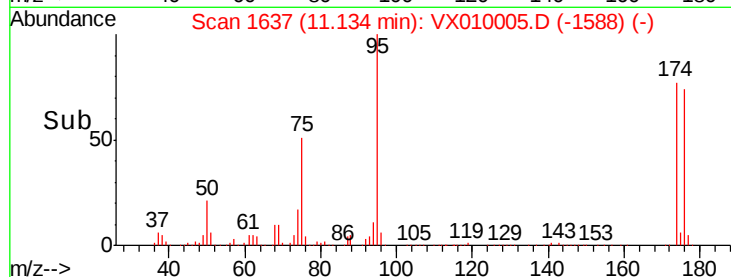
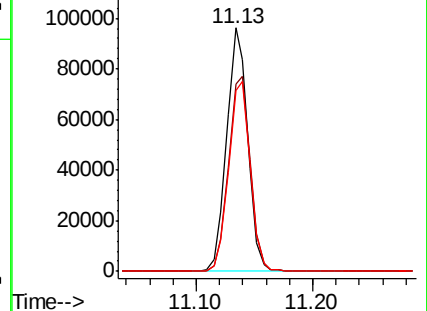
176 80.4 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX009906.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX009906.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX009906.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010005.D

Acq: 01 Jun 2019 00:11

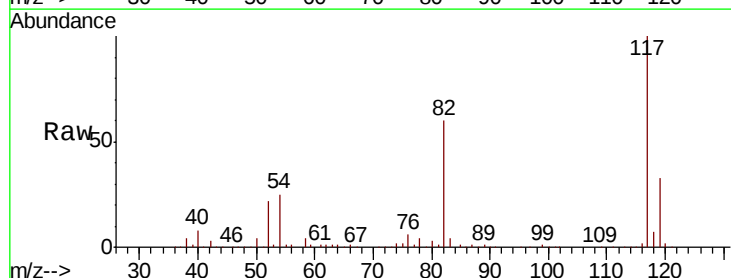
Tgt Ion: 117 Resp: 252513

Ion Ratio Lower Upper

117 100

82 59.5 49.2 73.8

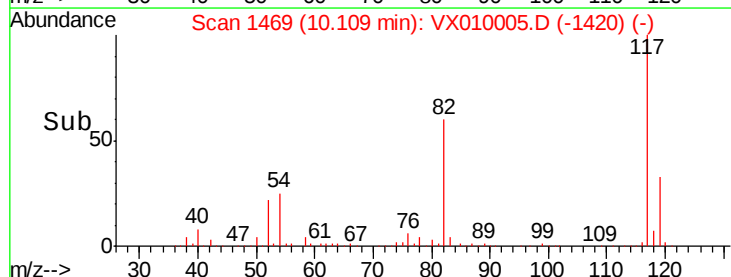
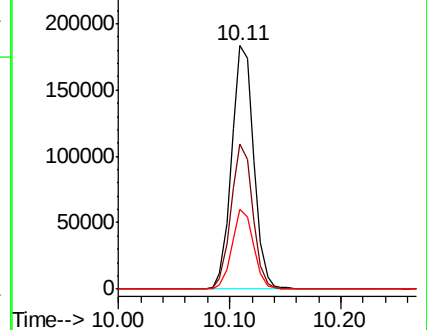
119 32.6 25.2 37.8

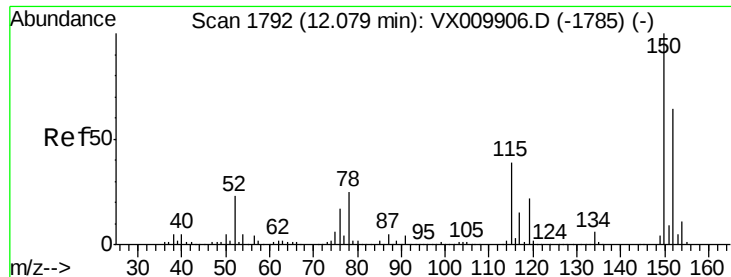


Abundance Ion 116.90 (116.60 to 117.60): VX009906.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX009906.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX009906.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX010005.D

Acq: 01 Jun 2019 00:11

Instrument :

MSVOA_X

ClientSampleId :

S32-0660DL

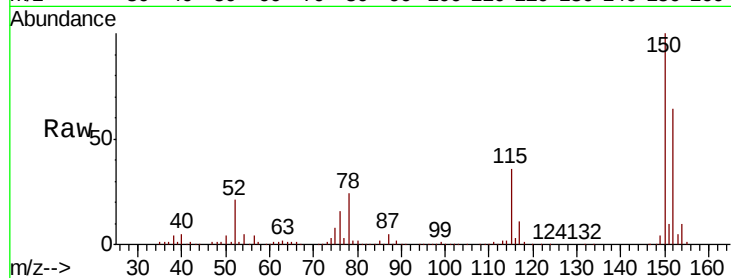
Tot Ion:152 Resp: 111733

Ion Ratio Lower Upper

152 100

115 58.3 41.4 124.2

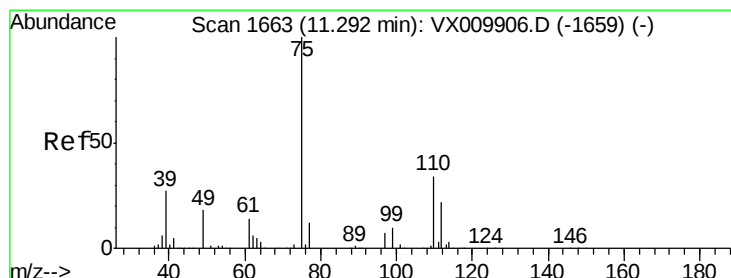
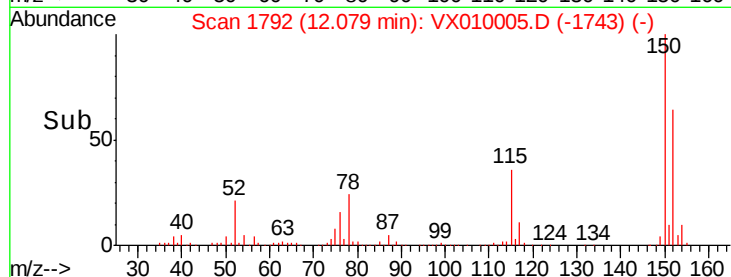
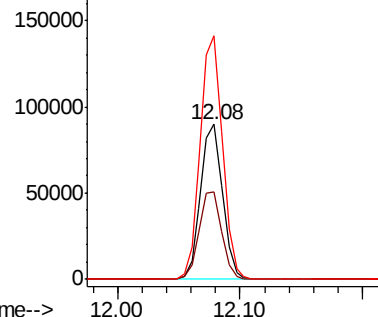
150 158.3 0.0 345.2



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: 23.154 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010005.D

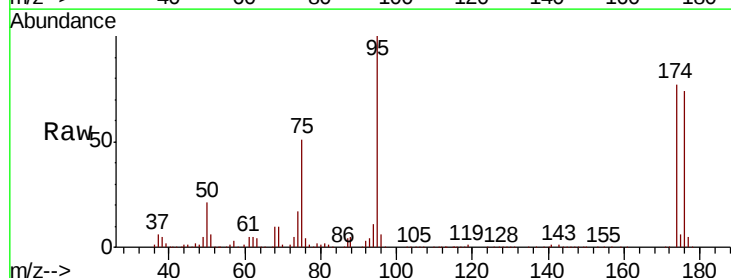
Acq: 01 Jun 2019 00:11

Tgt Ion: 75 Resp: 61864

Ion Ratio Lower Upper

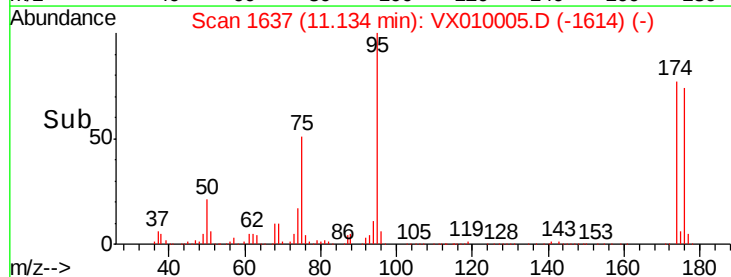
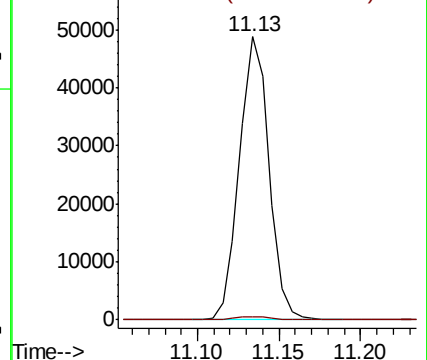
75 100

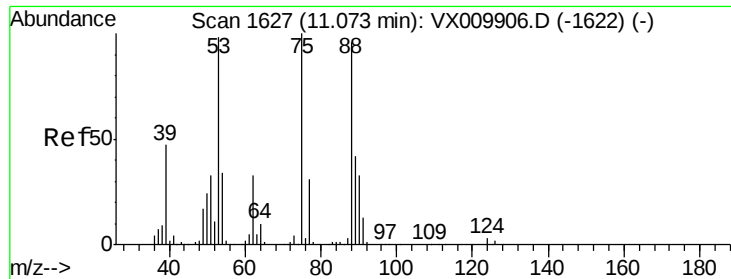
77 1.4 22.1 66.1#



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: 57.286 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010005.D

Acq: 01 Jun 2019 00:11

Instrument :

MSVOA_X

ClientSampleId :

S32-0660DL

Tot Ion: 75 Resp: 61864

Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

89 0.0 34.2 51.4#

