

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052819\
 Data File : VX009916.D
 Acq On : 28 May 2019 15:46
 Operator : JC/SP
 Sample : K3032-04DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0652DL

Quant Time: May 29 04:11:00 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	170128	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	269628	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	245571	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	106022	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	113368	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
35) Dibromofluoromethane	5.50	113	81526	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	
50) Toluene-d8	8.71	98	345276	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
62) 4-Bromofluorobenzene	11.13	95	115318	46.64	ug/l	0.00
Spiked Amount			Recovery	=	93.28%	

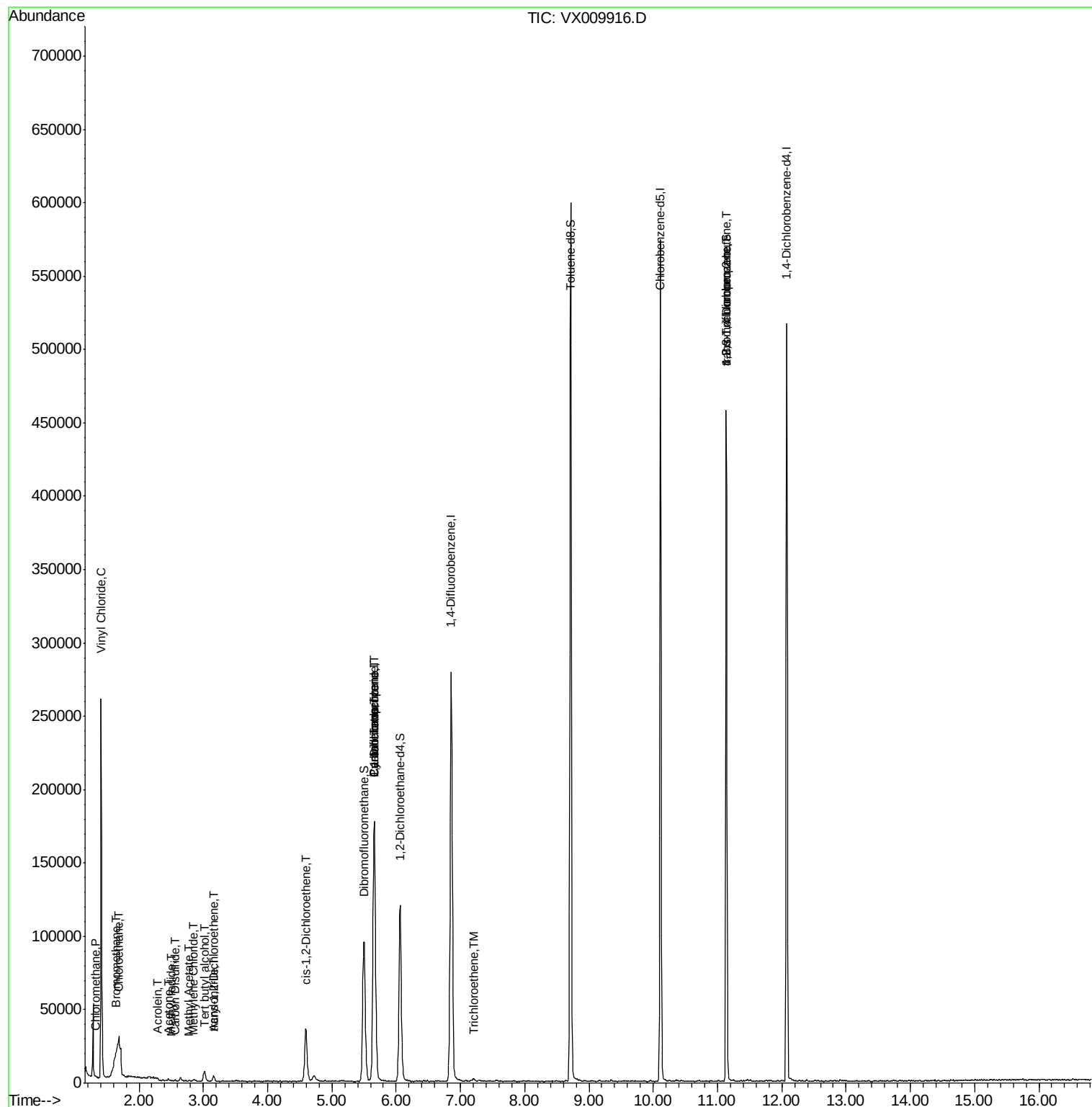
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	598	0.214	ug/l	97
4) Vinyl Chloride	1.41	62	179383	71.199	ug/l	100
5) Bromomethane	1.64	94	1441	0.944	ug/l #	68
6) Chloroethane	1.68	64	414	0.267	ug/l #	56
10) Methyl Iodide	2.51	142	420	4.840	ug/l #	46
11) Tert butyl alcohol	3.01	59	4390	7.423	ug/l #	79
13) Acrolein	2.29	56	135	21.392	ug/l #	14
15) Acrylonitrile	3.15	53	322	0.226	ug/l #	57
16) Acetone	2.45	43	1703	1.226	ug/l #	86
17) Carbon Disulfide	2.56	76	1002	0.575	ug/l	95
18) Methyl Acetate	2.78	43	656	0.203	ug/l #	64
20) Methylene Chloride	2.85	84	430	0.202	ug/l #	84
21) trans-1,2-Dichloroethene	3.16	96	1223	0.638	ug/l	87
27) cis-1,2-Dichloroethene	4.59	96	20911	9.450	ug/l	93
31) Cyclohexane	5.65	56	4117	1.126	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13586	4.966	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16426	6.948	ug/l #	15
44) Trichloroethene	7.21	130	491	0.249	ug/l	87
76) 1,2,3-Trichloropropane	11.13	75	59956	23.648	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	59956	58.510	ug/l #	10

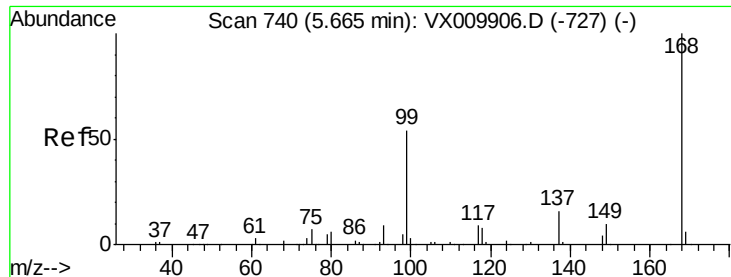
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\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: VX009916.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_X

ClientSampleId :

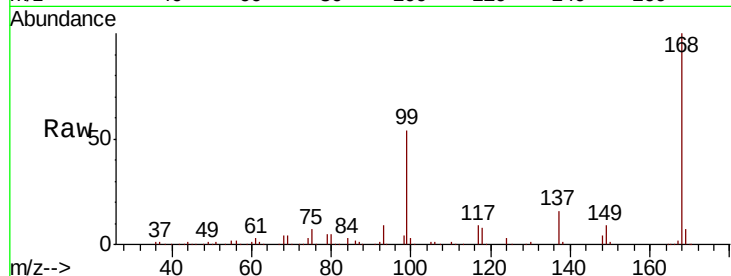
S32-0652DL

Tot Ion:168 Resp: 170128

Ion Ratio Lower Upper

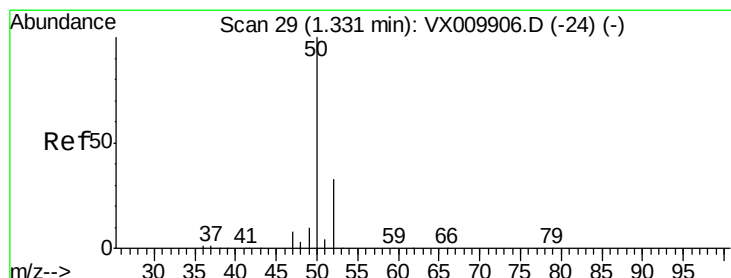
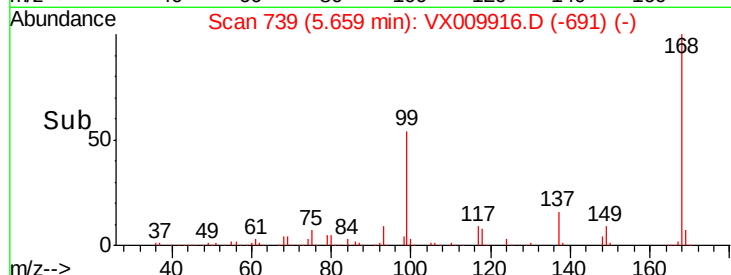
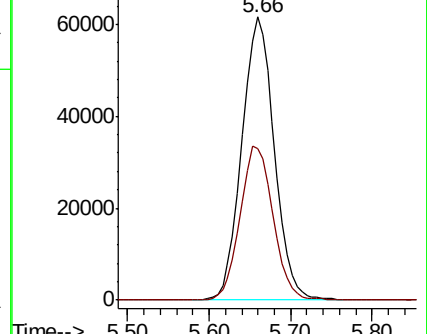
168 100

99 53.6 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.214 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX009916.D

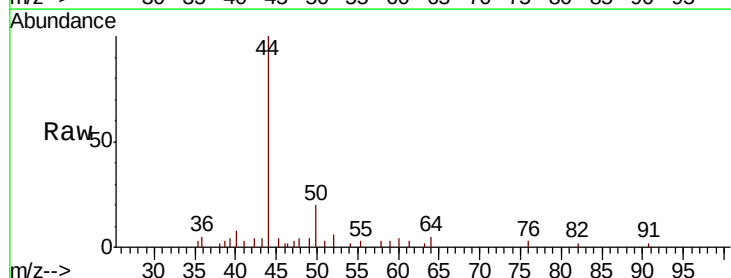
Acq: 28 May 2019 15:46

Tgt Ion: 50 Resp: 598

Ion Ratio Lower Upper

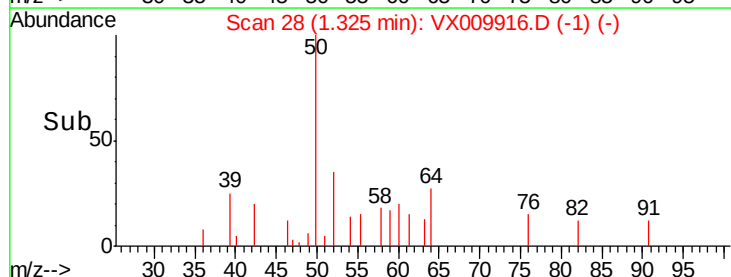
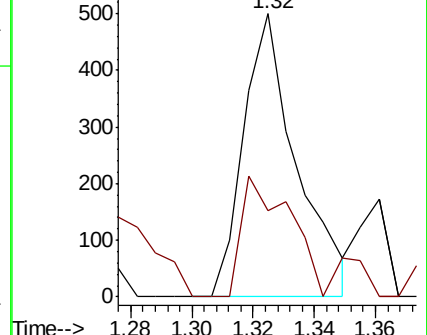
50 100

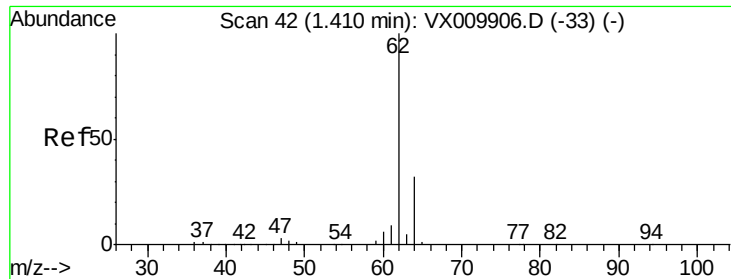
52 30.6 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 71.199 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009916.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_X

ClientSampled :

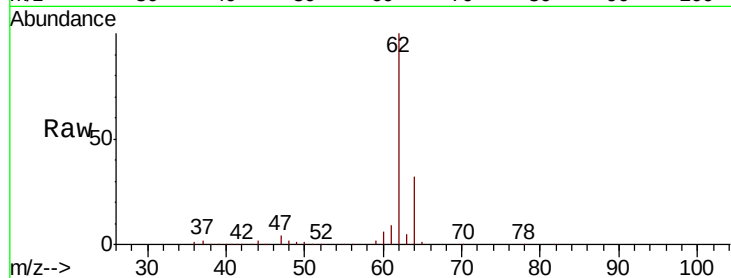
S32-0652DL

Tot Ion: 62 Resp: 179383

Ion Ratio Lower Upper

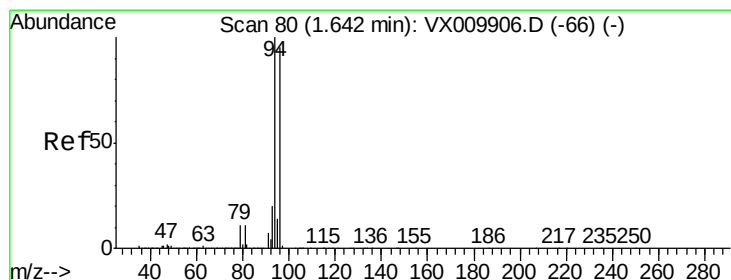
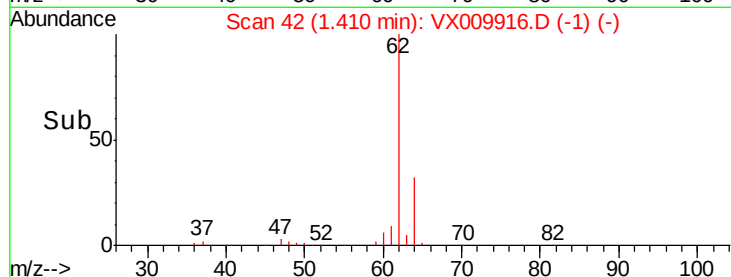
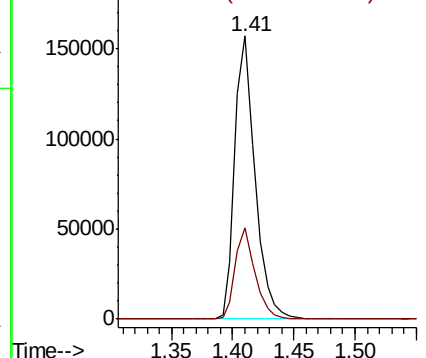
62 100

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: 0.944 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX009916.D

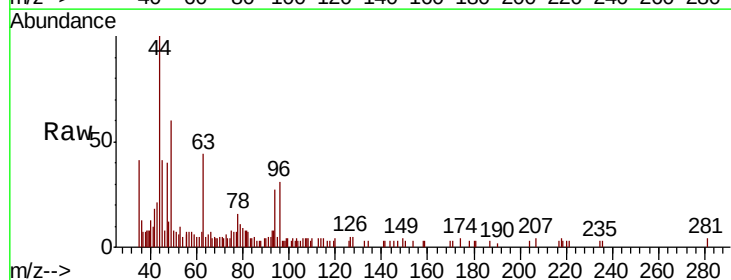
Acq: 28 May 2019 15:46

Tgt Ion: 94 Resp: 1441

Ion Ratio Lower Upper

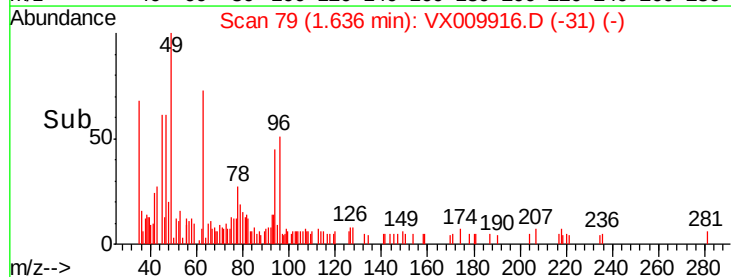
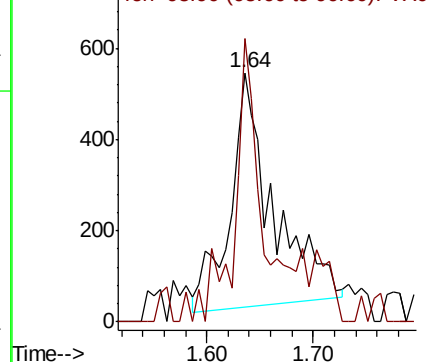
94 100

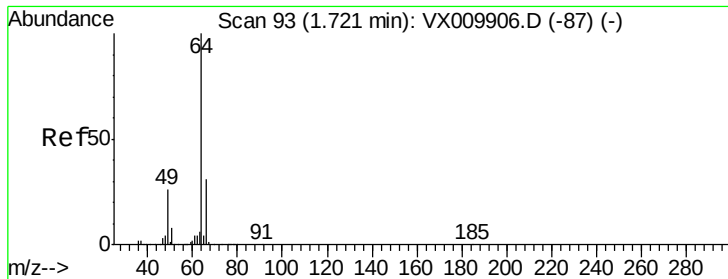
96 126.5 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.267 ug/l

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX009916.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_X

ClientSampled :

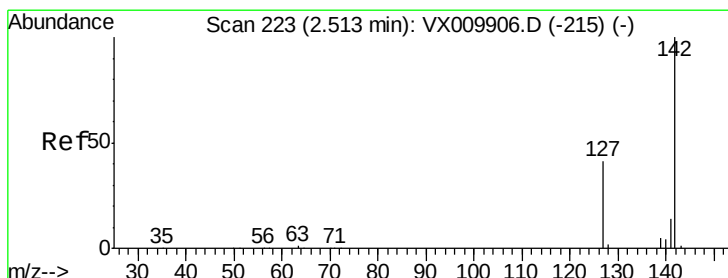
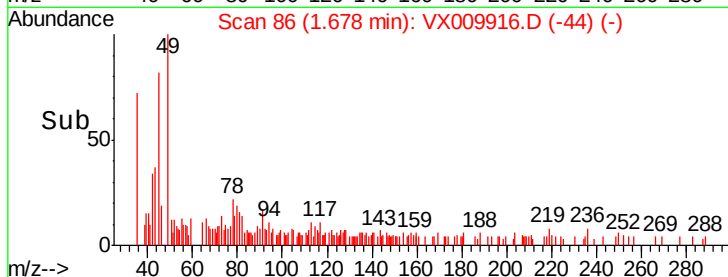
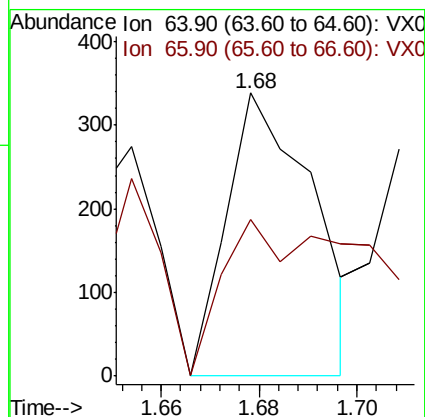
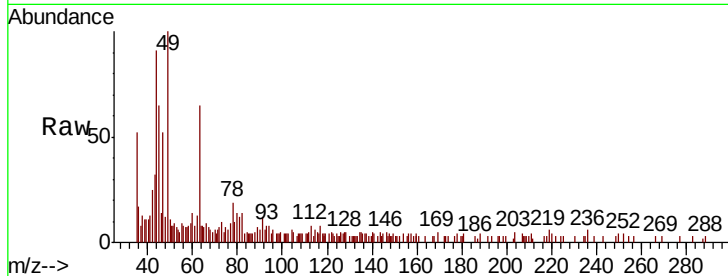
S32-0652DL

Tot Ion: 64 Resp: 414

Ion Ratio Lower Upper

64 100

66 55.6 25.1 37.7#



#10

Methyl Iodide

Concen: 4.840 ug/l

RT: 2.51 min Scan# 222

Delta R.T. -0.01 min

Lab File: VX009916.D

Acq: 28 May 2019 15:46

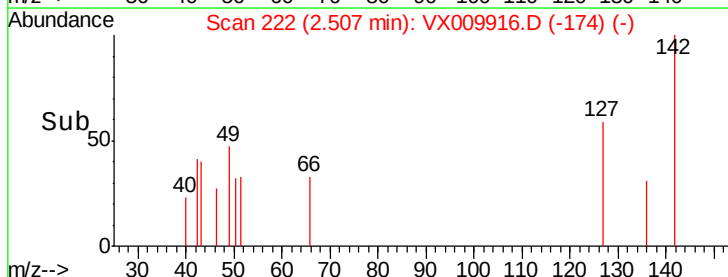
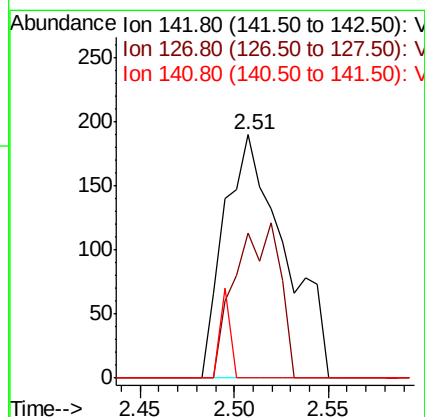
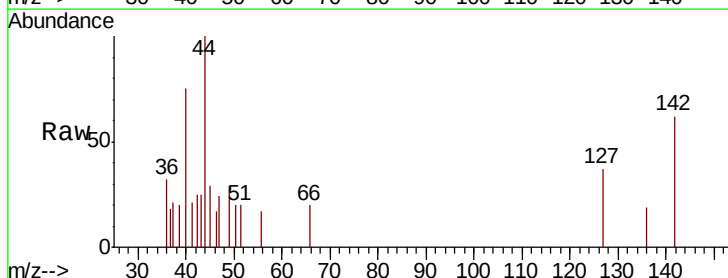
Tgt Ion: 142 Resp: 420

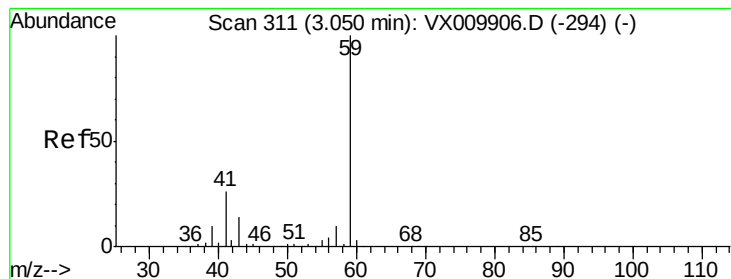
Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.4#

141 6.2 11.4 17.0#



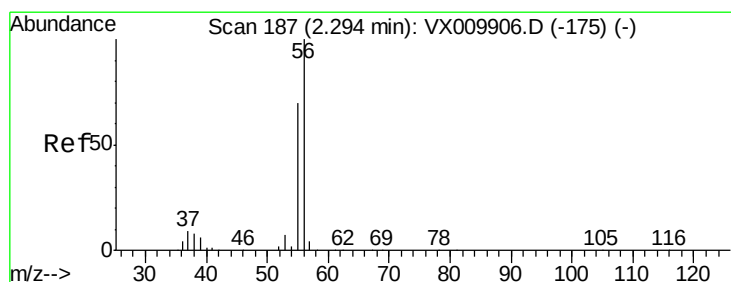
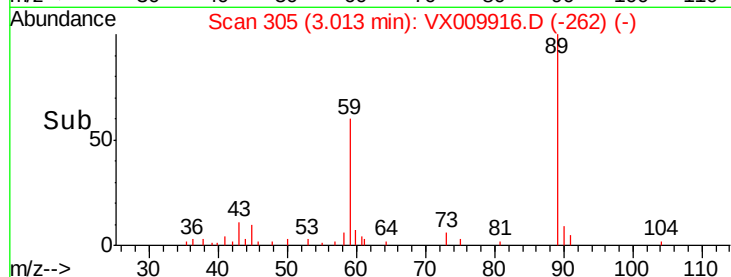
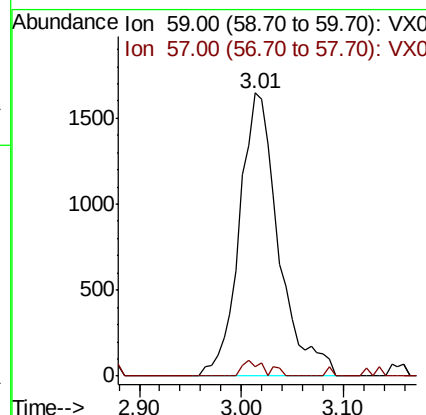
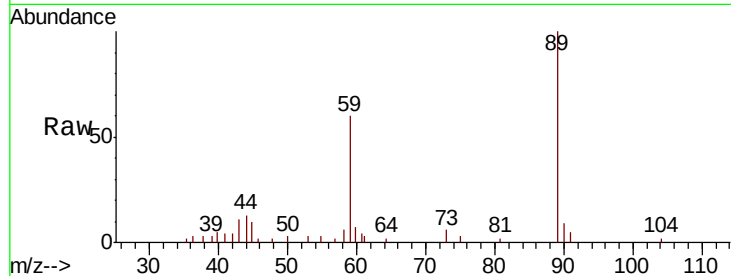


#11

Tert butyl alcohol
 Concen: 7.423 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.04 min
 Lab File: VX009916.D
 Acq: 28 May 2019 15:46

Instrument :
 MSVOA_X
 ClientSampled :
 S32-0652DL

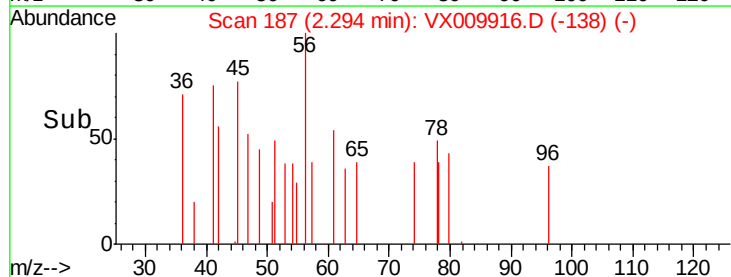
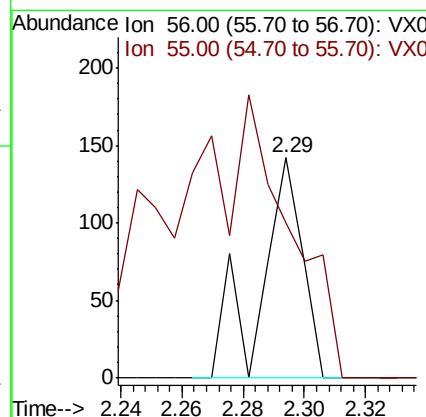
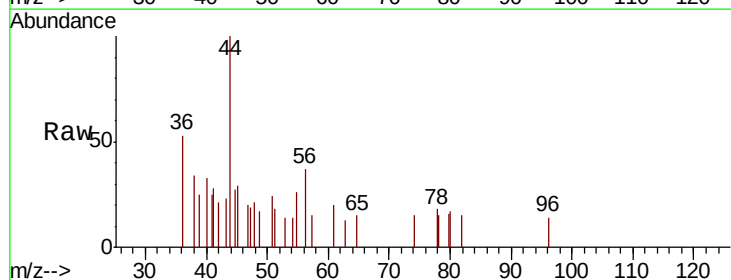
Tot Ion: 59 Resp: 4390
 Ion Ratio Lower Upper
 59 100
 57 2.4 8.2 12.2#

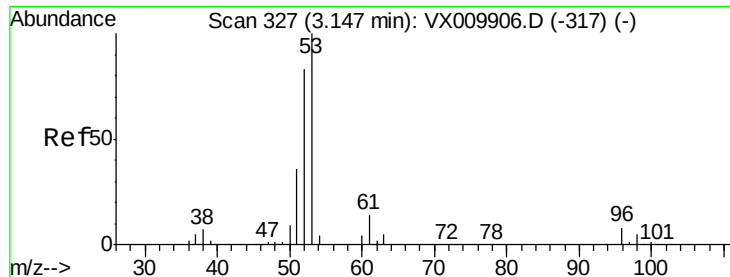


#13

Acrolein
 Concen: 21.392 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. 0.00 min
 Lab File: VX009916.D
 Acq: 28 May 2019 15:46

Tgt Ion: 56 Resp: 135
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#15

Acrylonitrile

Concen: 0.226 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX009916.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_X

ClientSampled :

S32-0652DL

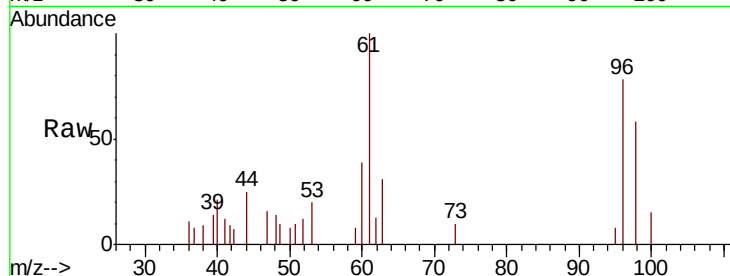
Tot Ion: 53 Resp: 322

Ion Ratio Lower Upper

53 100

52 44.4 66.7 100.1#

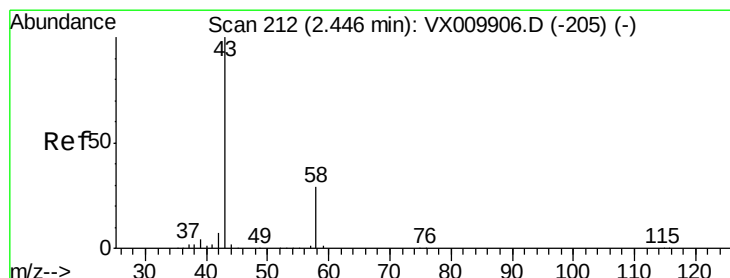
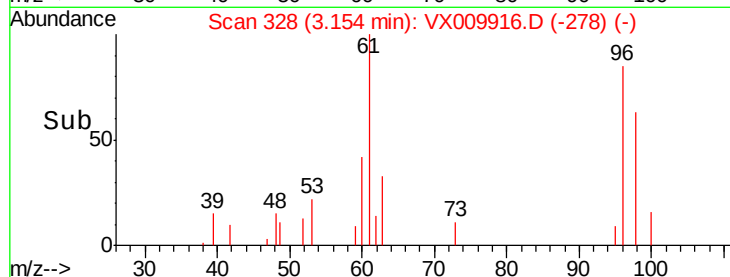
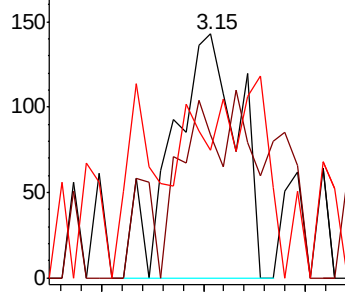
51 11.5 28.8 43.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.226 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX009916.D

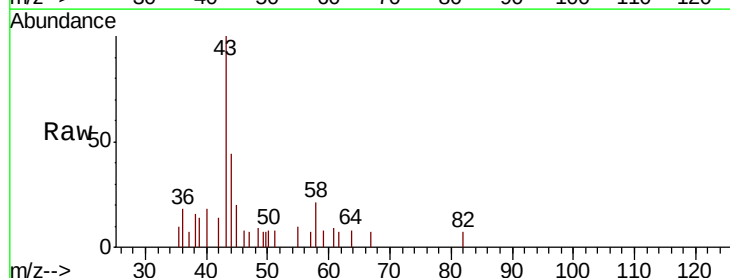
Acq: 28 May 2019 15:46

Tgt Ion: 43 Resp: 1703

Ion Ratio Lower Upper

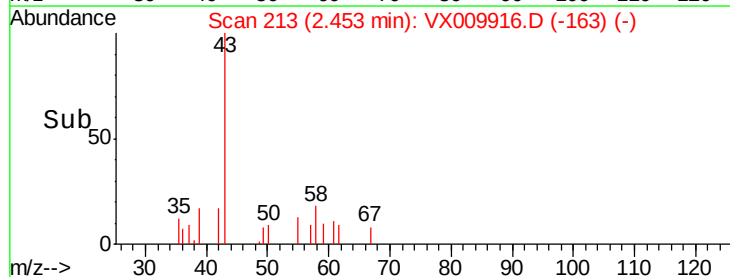
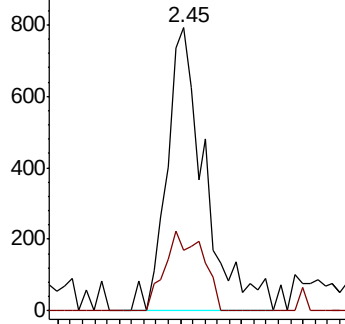
43 100

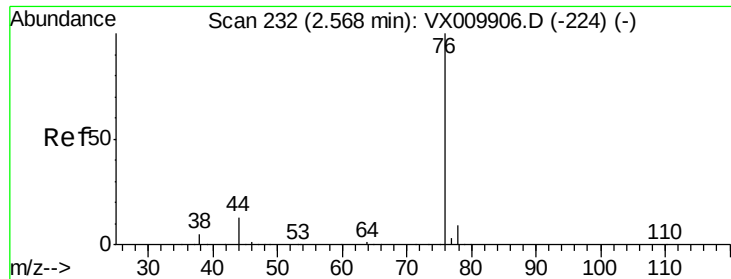
58 21.5 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.575 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX009916.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_X

ClientSampled :

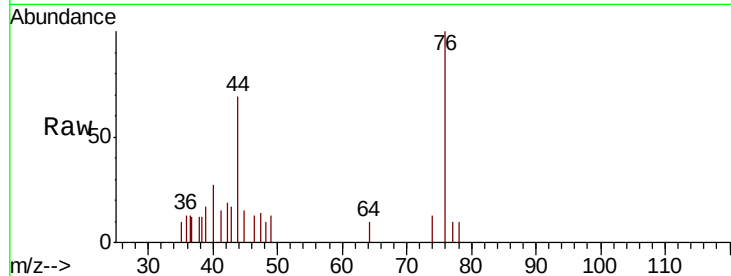
S32-0652DL

Tot Ion: 76 Resp: 1002

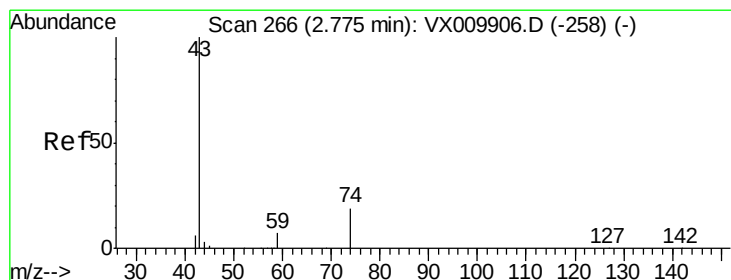
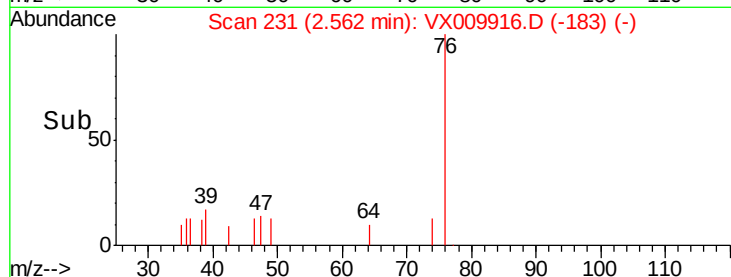
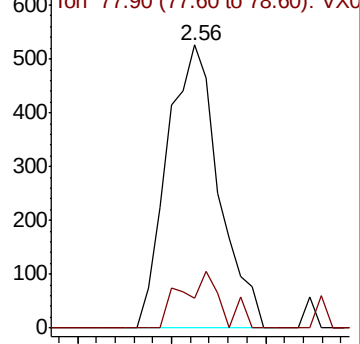
Ion Ratio Lower Upper

76 100

78 10.5 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0



#18

Methyl Acetate

Concen: 0.203 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX009916.D

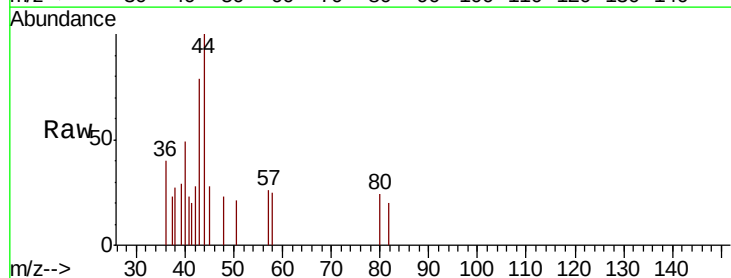
Acq: 28 May 2019 15:46

Tgt Ion: 43 Resp: 656

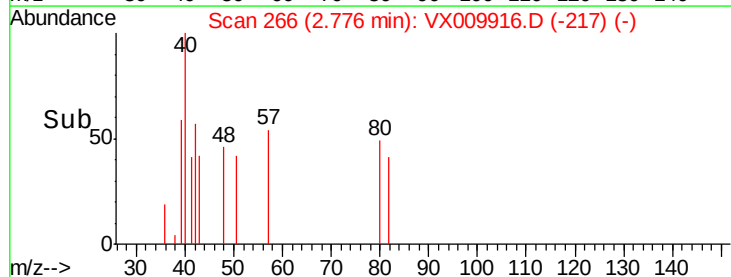
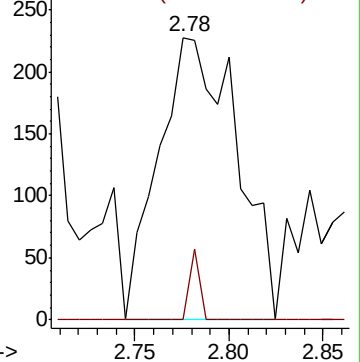
Ion Ratio Lower Upper

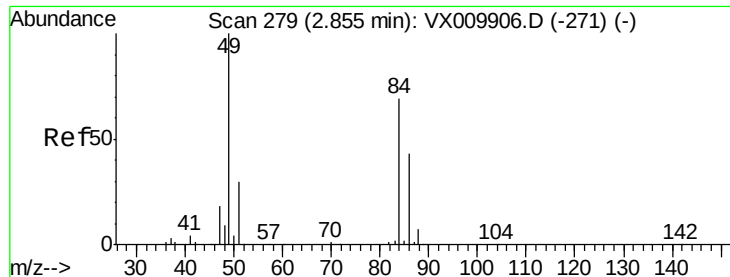
43 100

74 3.2 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

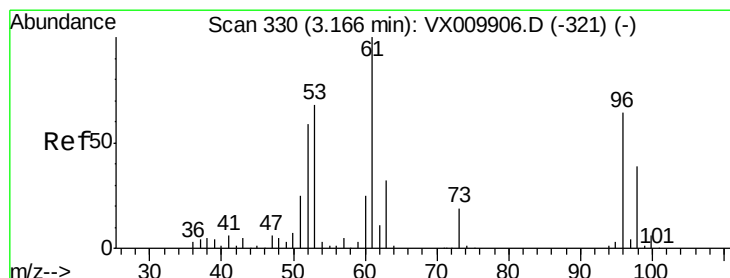
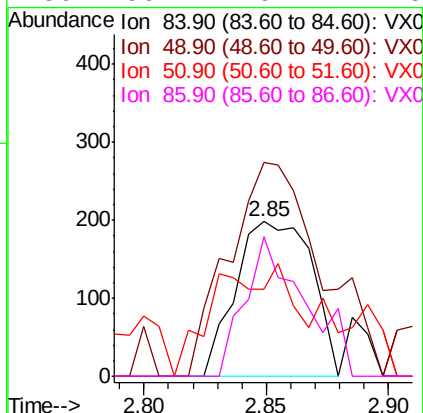
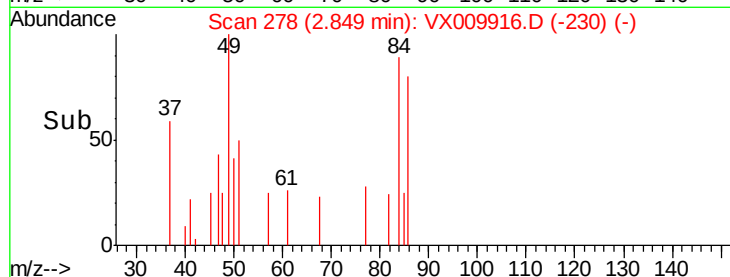
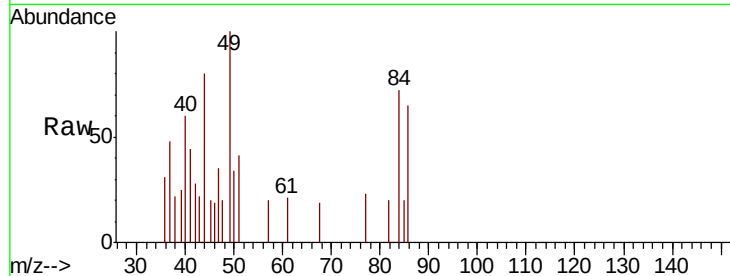




#20
Methylene Chloride
Concen: 0.202 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX009916.D
Acq: 28 May 2019 15:46

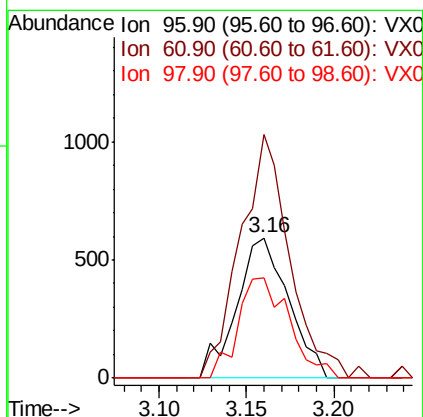
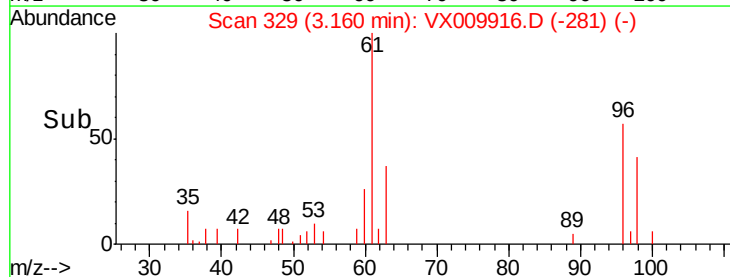
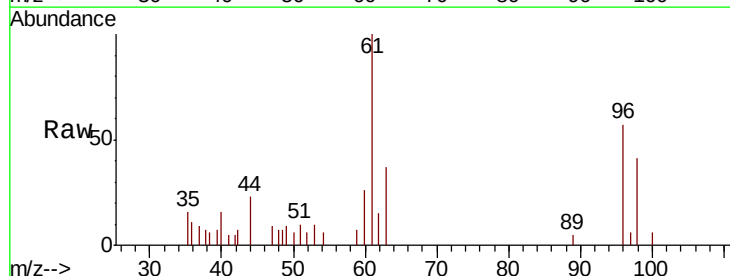
Instrument :
MSVOA_X
ClientSampled :
S32-0652DL

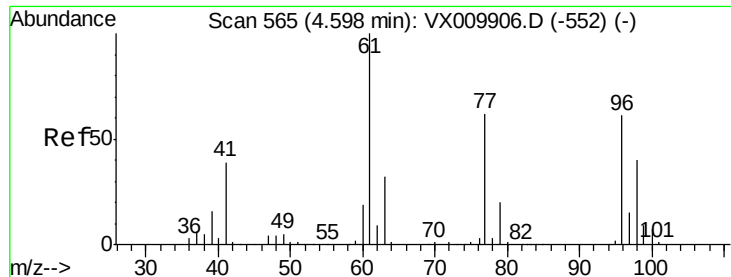
Tot Ion: 84 Resp: 430
Ion Ratio Lower Upper
84 100
49 138.4 115.8 173.6
51 27.8 34.4 51.6#
86 90.4 49.7 74.5#



#21
trans-1,2-Dichloroethene
Concen: 0.638 ug/l
RT: 3.16 min Scan# 329
Delta R.T. -0.01 min
Lab File: VX009916.D
Acq: 28 May 2019 15:46

Tgt Ion: 96 Resp: 1223
Ion Ratio Lower Upper
96 100
61 174.0 125.7 188.5
98 71.3 49.0 73.6





#27

cis-1,2-Dichloroethene

Concen: 9.450 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX009916.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_X

ClientSampleId :

S32-0652DL

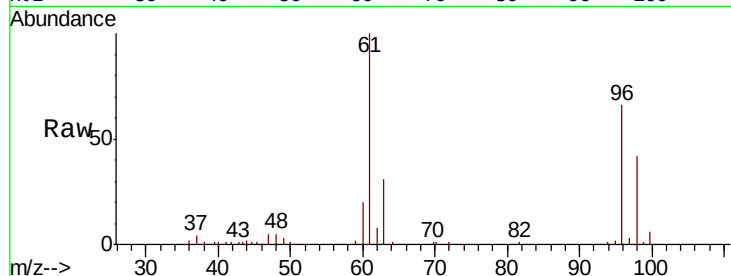
Tot Ion: 96 Resp: 20911

Ion Ratio Lower Upper

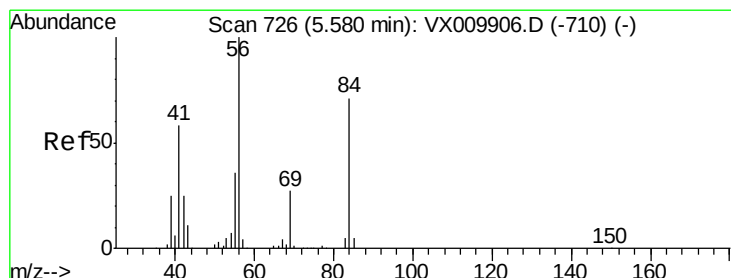
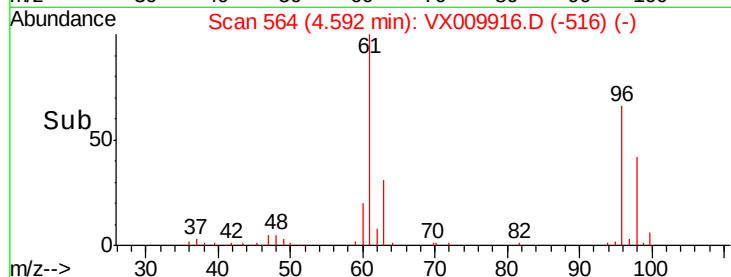
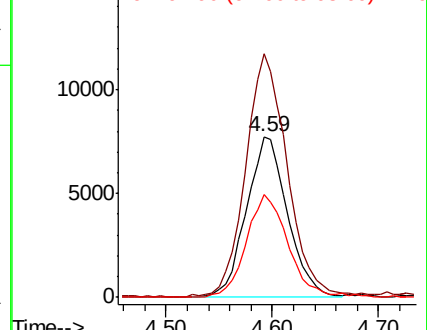
96 100

61 154.9 0.0 334.0

98 65.1 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: 1.126 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX009916.D

Acq: 28 May 2019 15:46

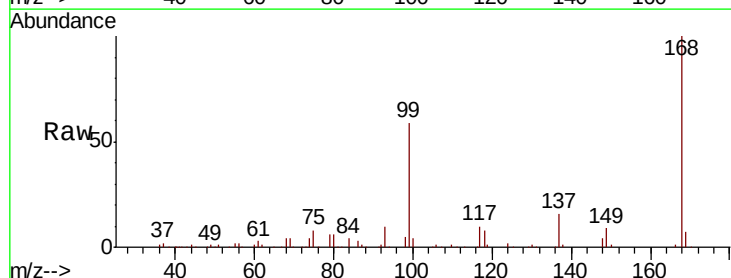
Tgt Ion: 56 Resp: 4117

Ion Ratio Lower Upper

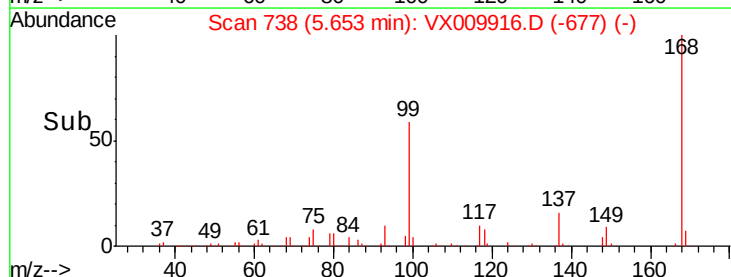
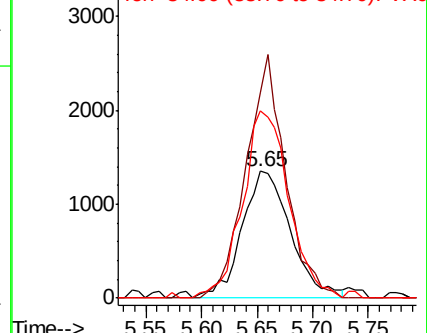
56 100

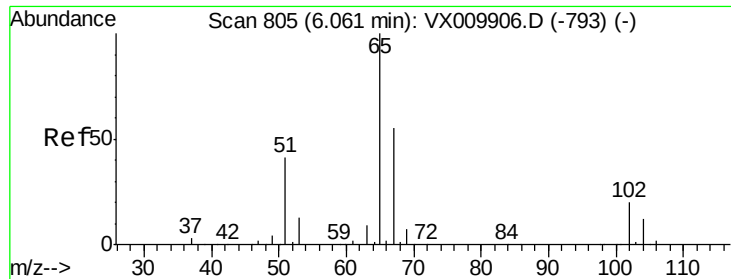
69 161.7 21.6 32.4#

84 147.1 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

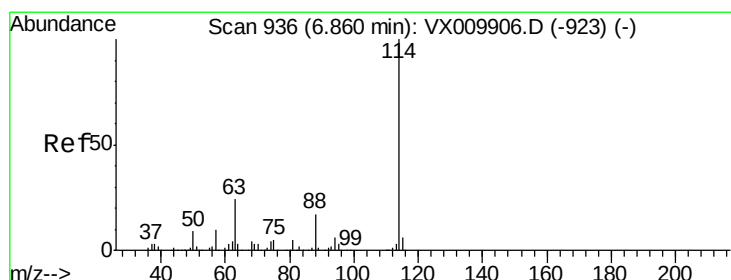
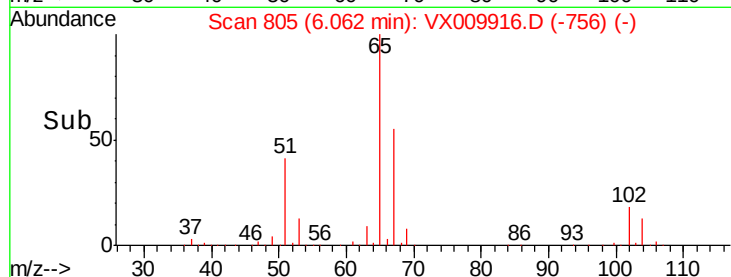
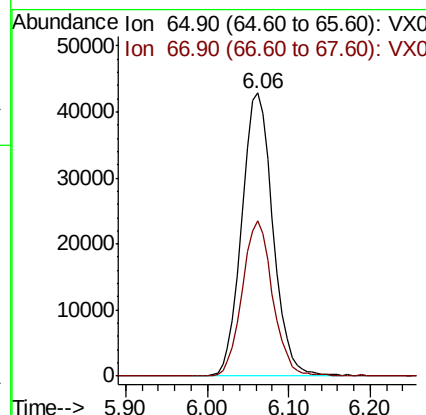
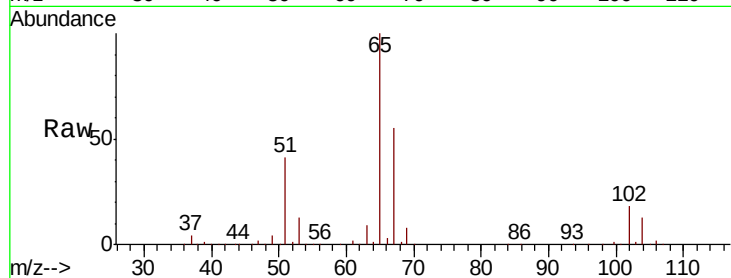




#33
 1,2-Dichloroethane-d4
 Concen: 47.174 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009916.D
 Acq: 28 May 2019 15:46

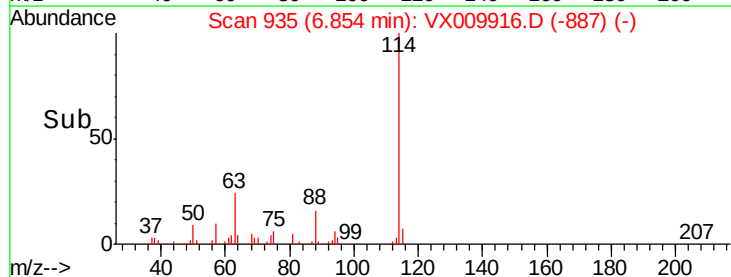
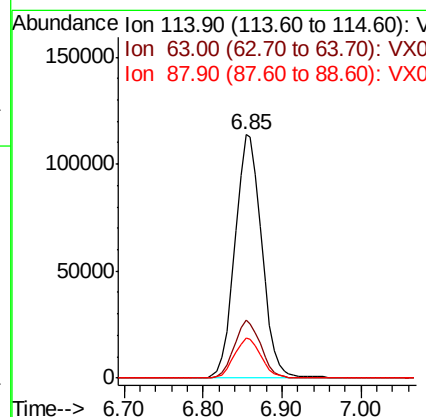
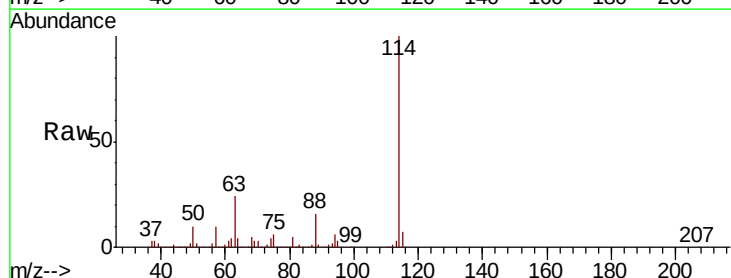
Instrument :
 MSVOA_X
 ClientSampleID :
 S32-0652DL

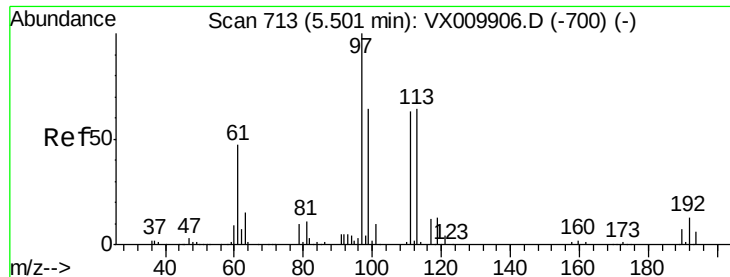
Tot Ion: 65 Resp: 113368
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX009916.D
 Acq: 28 May 2019 15:46

Tgt Ion: 114 Resp: 269628
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 47.4
 88 16.4 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.093 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX009916.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_X

ClientSampleId :

S32-0652DL

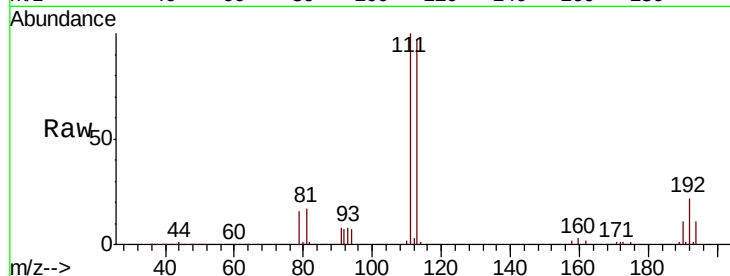
Tot Ion:113 Resp: 81526

Ion Ratio Lower Upper

113 100

111 103.3 82.2 123.2

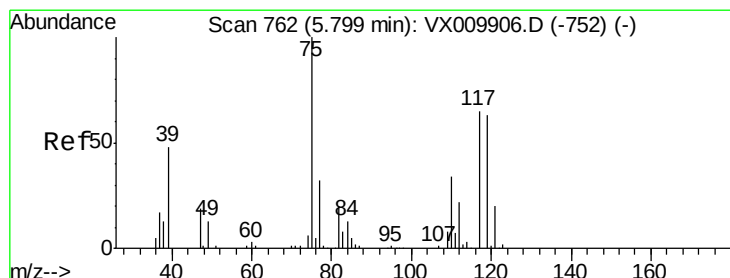
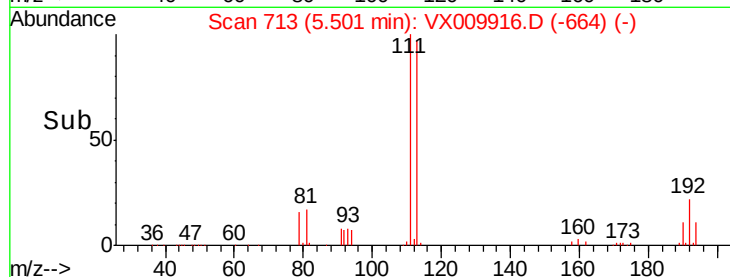
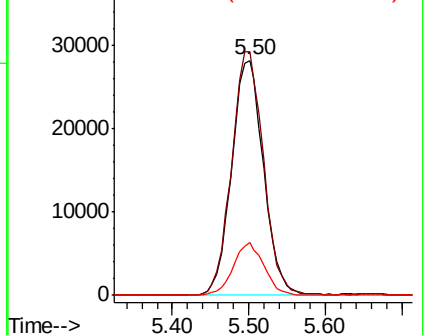
192 21.6 17.1 25.7



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: 4.966 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009916.D

Acq: 28 May 2019 15:46

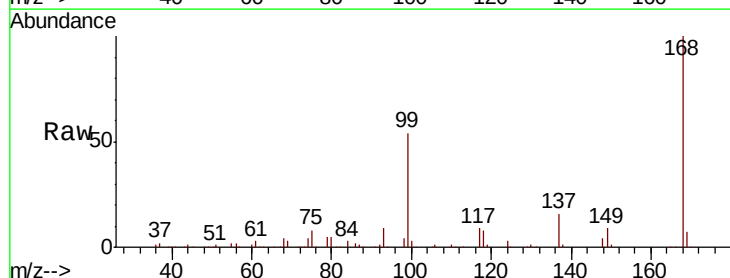
Tgt Ion: 75 Resp: 13586

Ion Ratio Lower Upper

75 100

110 9.1 16.7 50.1#

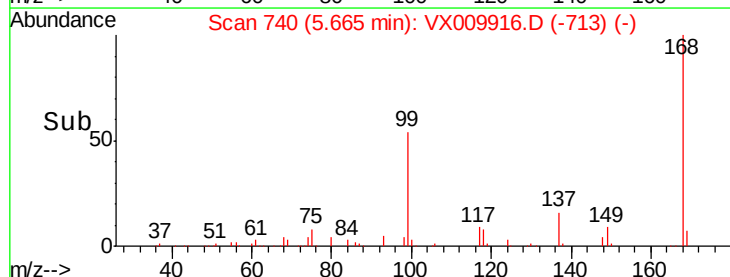
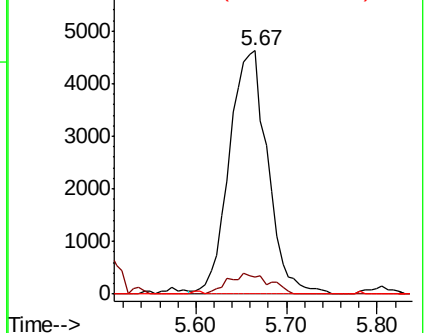
77 0.0 25.0 37.4#

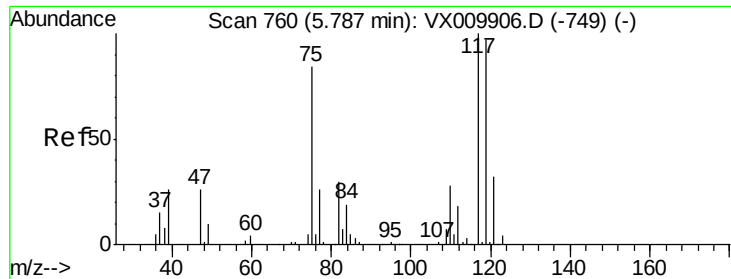


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.948 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009916.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_X

ClientSampled :

S32-0652DL

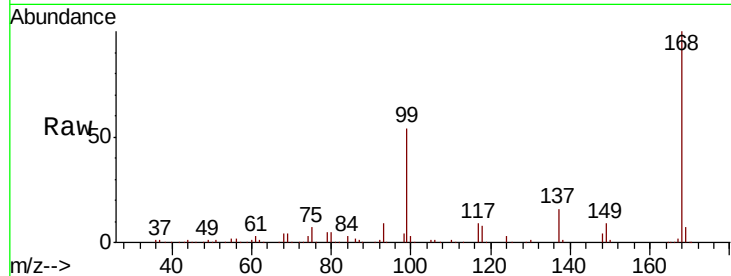
Tot Ion:117 Resp: 16426

Ion Ratio Lower Upper

117 100

119 4.6 77.3 115.9#

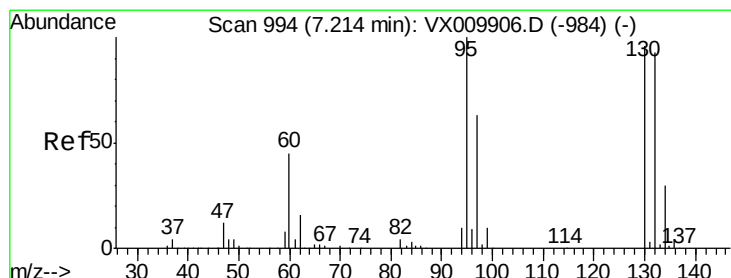
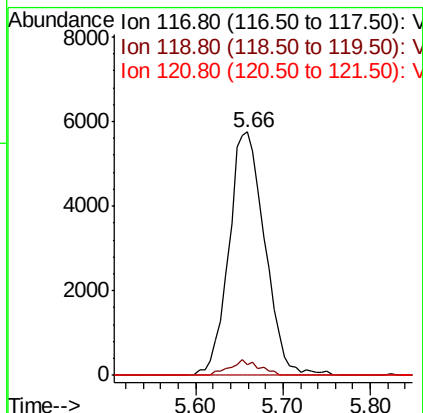
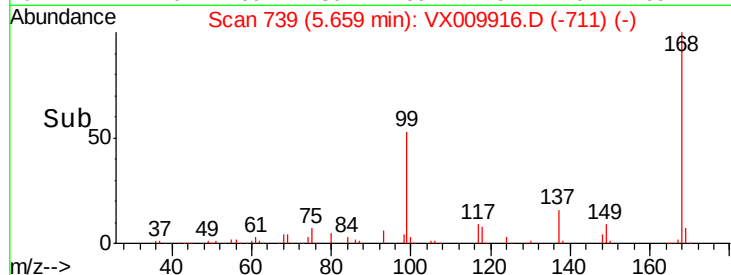
121 0.0 25.4 38.0#



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: 0.249 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX009916.D

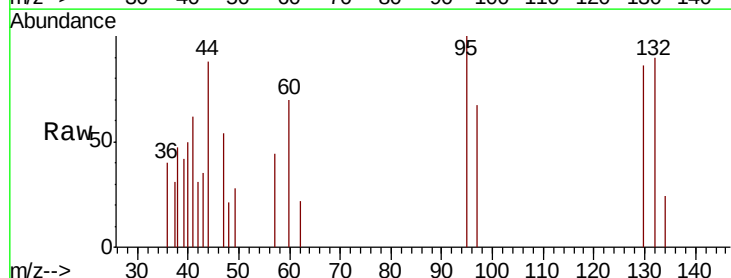
Acq: 28 May 2019 15:46

Tgt Ion:130 Resp: 491

Ion Ratio Lower Upper

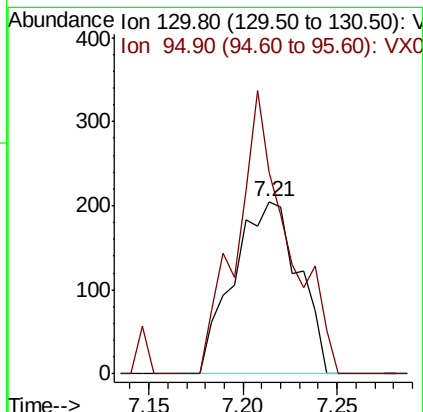
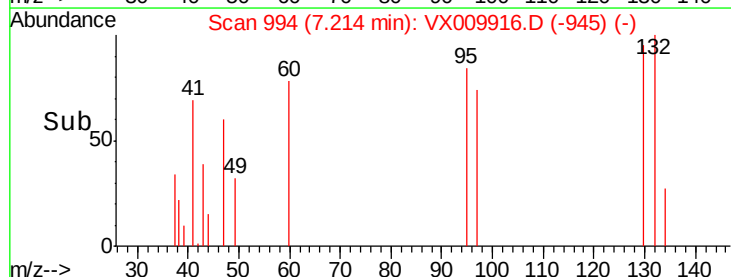
130 100

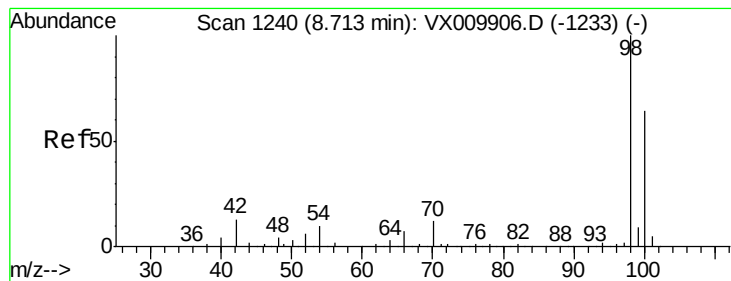
95 116.6 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 50.159 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009916.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_X

ClientSampled :

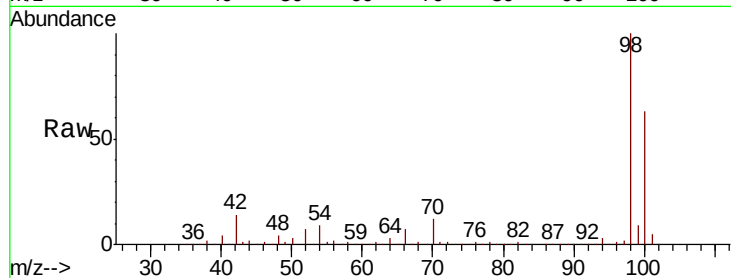
S32-0652DL

Tot Ion: 98 Resp: 345276

Ion Ratio Lower Upper

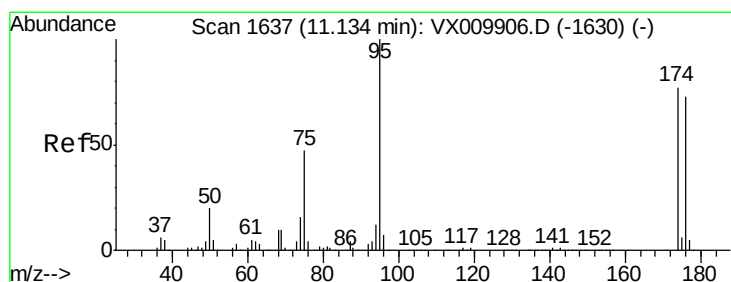
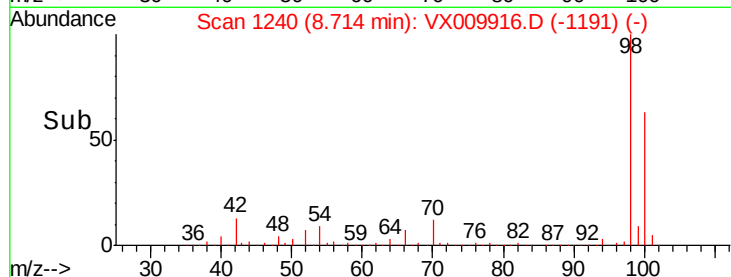
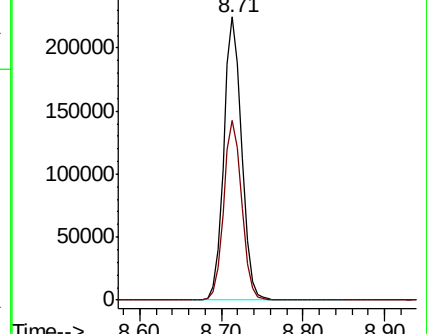
98 100

100 63.8 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 46.640 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009916.D

Acq: 28 May 2019 15:46

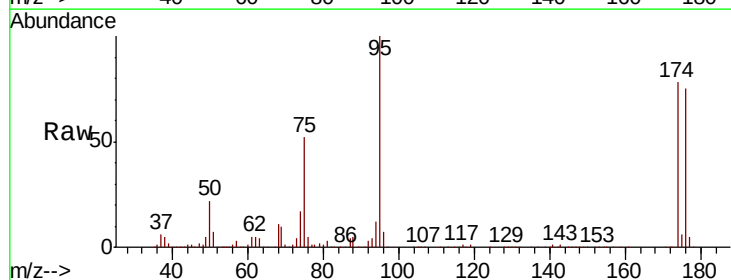
Tgt Ion: 95 Resp: 115318

Ion Ratio Lower Upper

95 100

174 82.0 0.0 160.4

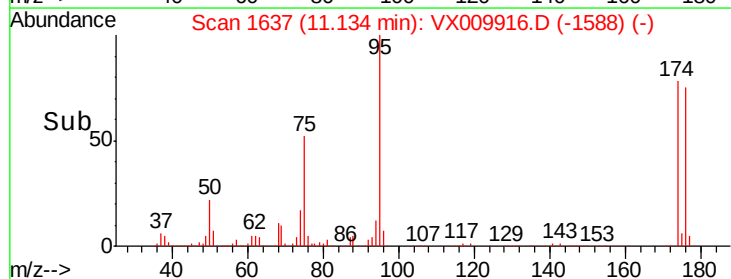
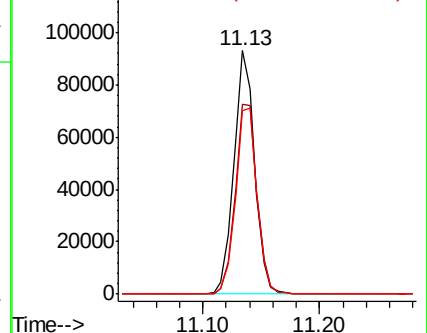
176 79.6 0.0 154.6

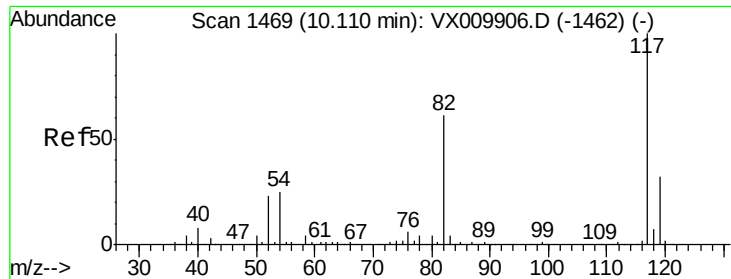


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

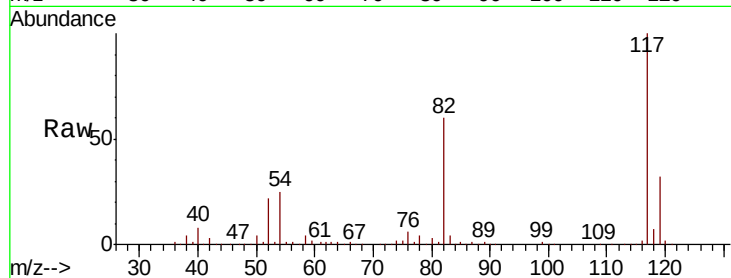




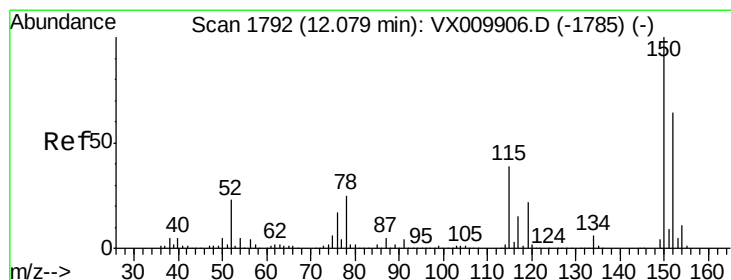
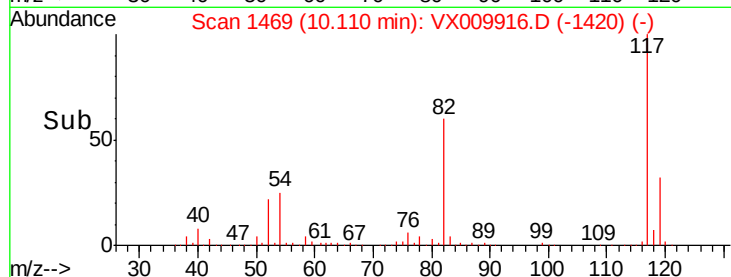
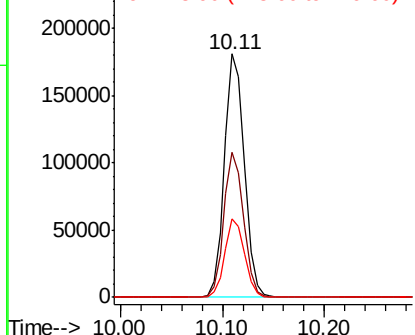
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009916.D
Acq: 28 May 2019 15:46

Instrument :
MSVOA_X
ClientSampleId :
S32-0652DL

Tot Ion:117 Resp: 245571
Ion Ratio Lower Upper
117 100
82 59.8 49.2 73.8
119 32.1 25.2 37.8

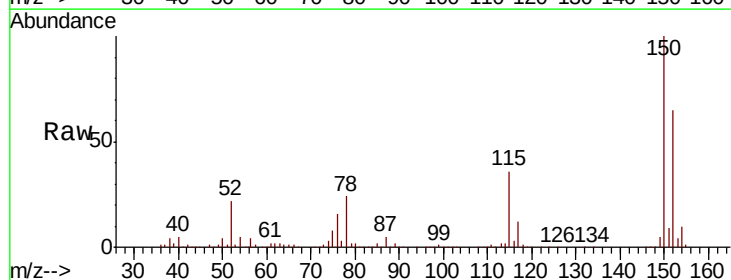


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

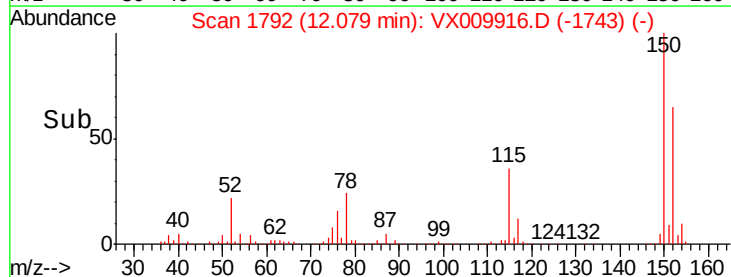
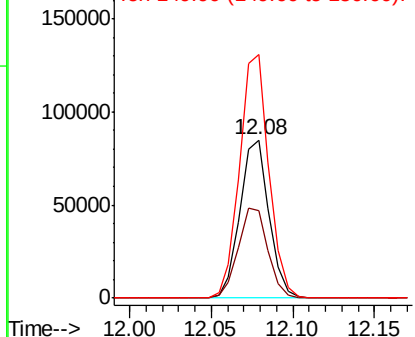


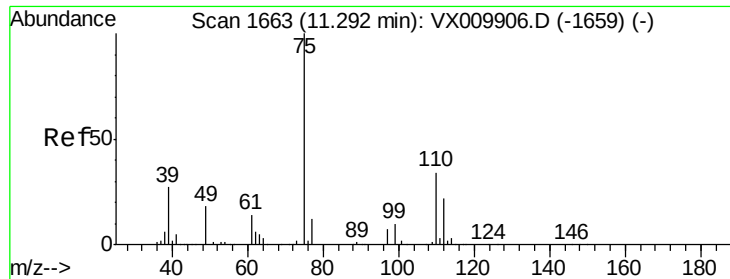
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009916.D
Acq: 28 May 2019 15:46

Tgt Ion:152 Resp: 106022
Ion Ratio Lower Upper
152 100
115 58.0 41.4 124.2
150 154.6 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

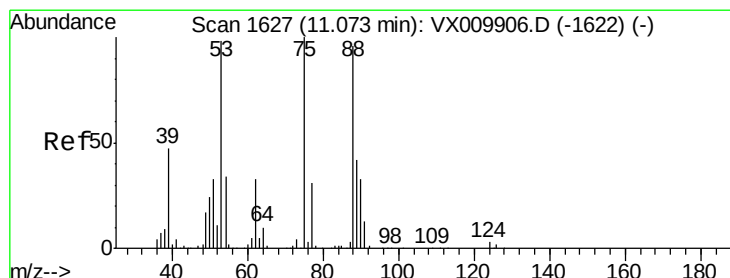
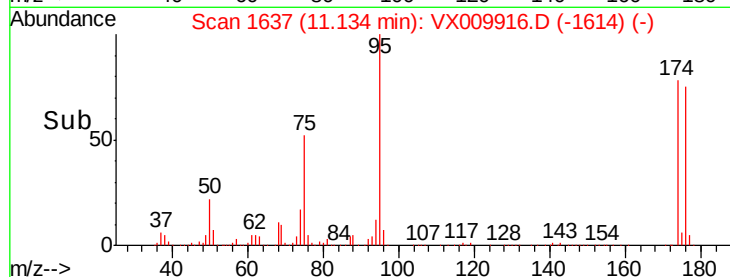
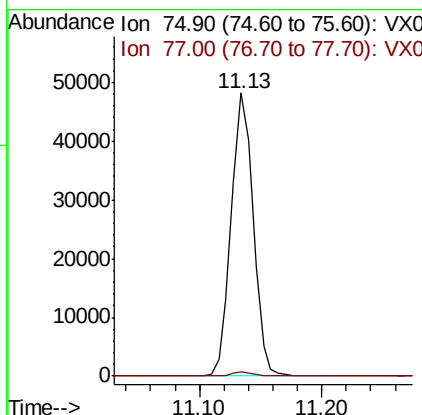
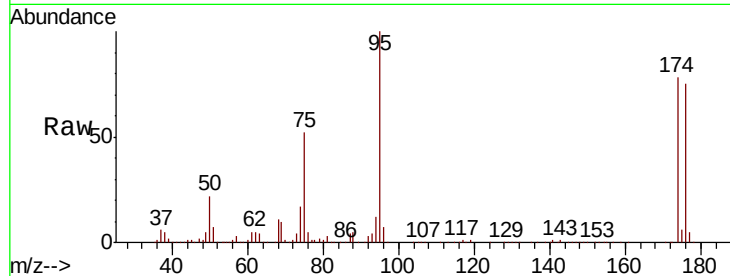




#76
 1,2,3-Trichloropropane
 Concen: 23.648 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009916.D
 Acq: 28 May 2019 15:46

Instrument :
 MSVOA_X
 ClientSampled :
 S32-0652DL

Tot Ion: 75 Resp: 59956
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.510 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009916.D
 Acq: 28 May 2019 15:46

Tgt Ion: 75 Resp: 59956
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.8 119.6#
 89 0.0 34.2 51.4#

