

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052919\
 Data File : VX009940.D
 Acq On : 29 May 2019 15:16
 Operator : JC/SP
 Sample : K3077-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0663

Quant Time: May 30 01:15:04 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	5.67	168	172581	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	276243	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	248537	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	105824	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	116669	47.86	ug/l	0.00
Spiked Amount			Recovery	=	95.72%	
35) Dibromofluoromethane	5.50	113	86280	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
50) Toluene-d8	8.71	98	351016	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
62) 4-Bromofluorobenzene	11.13	95	117739	46.48	ug/l	0.00
Spiked Amount			Recovery	=	92.96%	

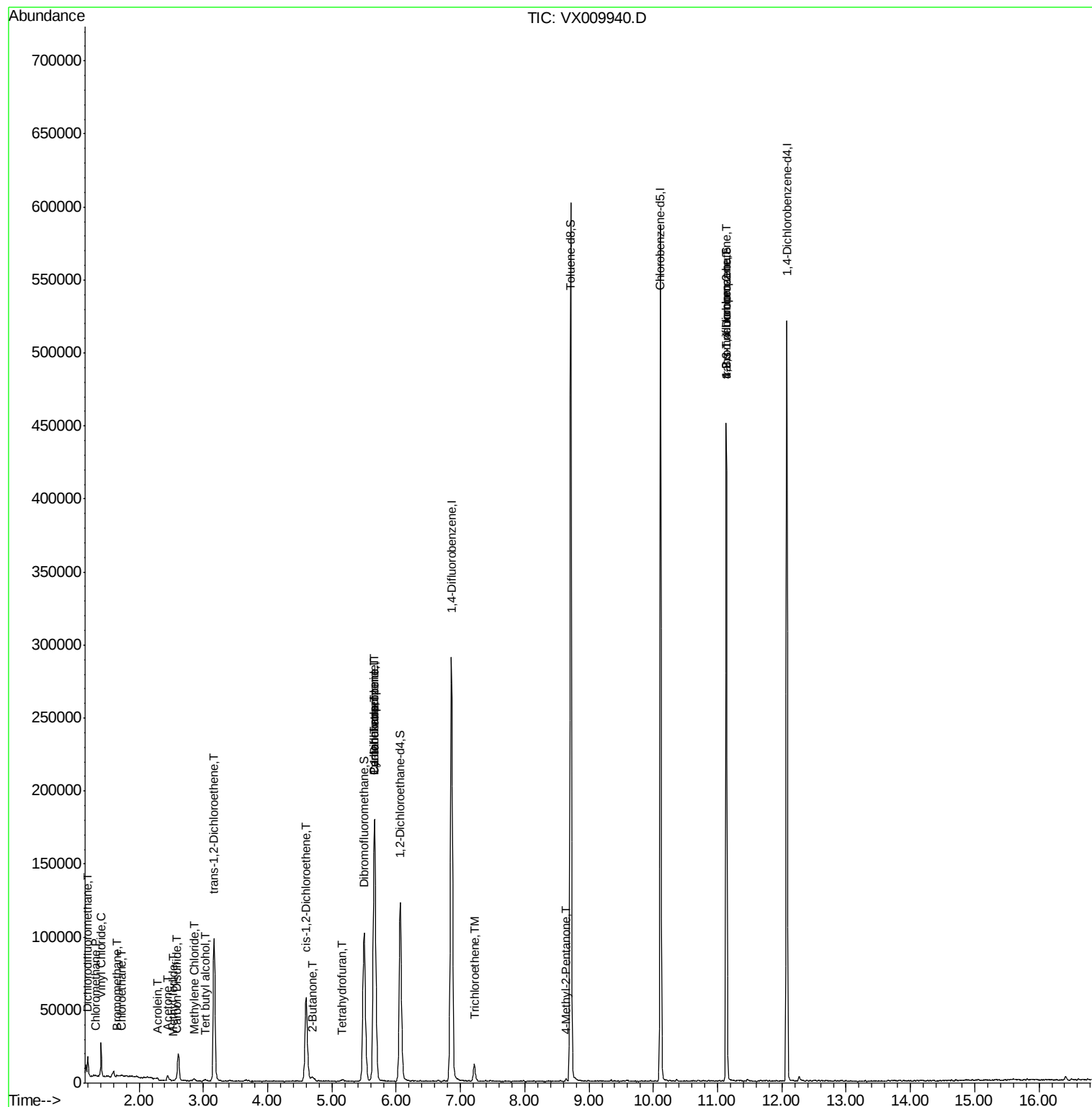
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	6863	3.254	ug/l	93
3) Chloromethane	1.32	50	602	0.212	ug/l	91
4) Vinyl Chloride	1.41	62	15531	6.077	ug/l	96
5) Bromomethane	1.65	94	347	0.224	ug/l	99
6) Chloroethane	1.72	64	659	0.419	ug/l #	43
10) Methyl Iodide	2.53	142	100	4.700	ug/l #	66
11) Tert butyl alcohol	3.03	59	1417	2.362	ug/l #	91
13) Acrolein	2.28	56	219	21.568	ug/l	95
16) Acetone	2.45	43	3764	2.672	ug/l	94
17) Carbon Disulfide	2.57	76	1968	0.754	ug/l #	91
20) Methylene Chloride	2.86	84	520	0.241	ug/l #	67
21) trans-1,2-Dichloroethene	3.17	96	39151	20.132	ug/l	97
25) 2-Butanone	4.70	43	1159	0.528	ug/l #	54
27) cis-1,2-Dichloroethene	4.60	96	35118	15.644	ug/l	88
29) Tetrahydrofuran	5.15	42	839	0.596	ug/l #	73
31) Cyclohexane	5.67	56	4306	1.161	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13922	4.967	ug/l #	51
38) Carbon Tetrachloride	5.67	117	15936	6.580	ug/l #	16
44) Trichloroethene	7.21	130	4393	2.175	ug/l	98
51) 4-Methyl-2-Pentanone	8.64	43	1258	0.307	ug/l #	85
76) 1,2,3-Trichloropropane	11.13	75	61116	24.151	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61116	59.753	ug/l #	10

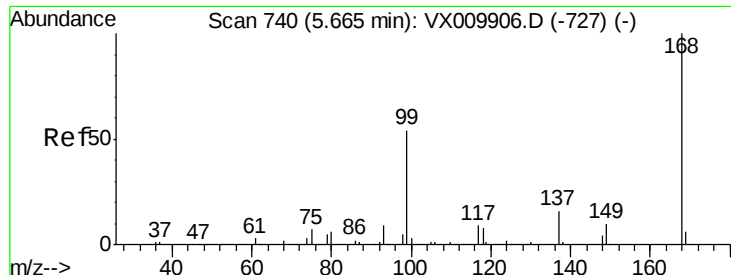
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009940.D

Acq: 29 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

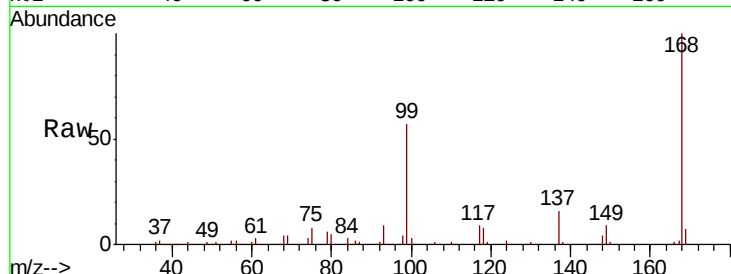
S32-0663

Tot Ion:168 Resp: 172581

Ion Ratio Lower Upper

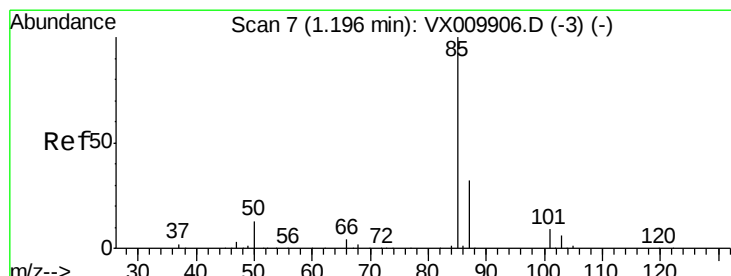
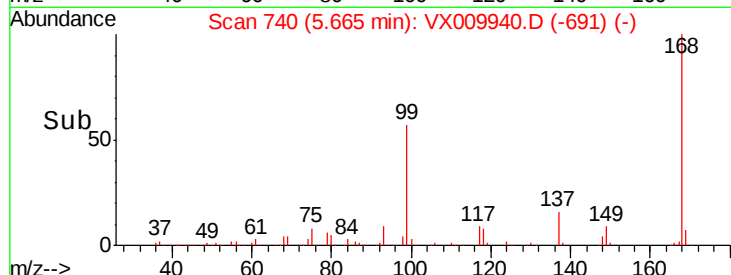
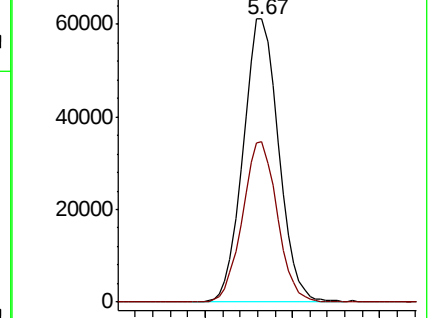
168 100

99 56.7 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 3.254 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX009940.D

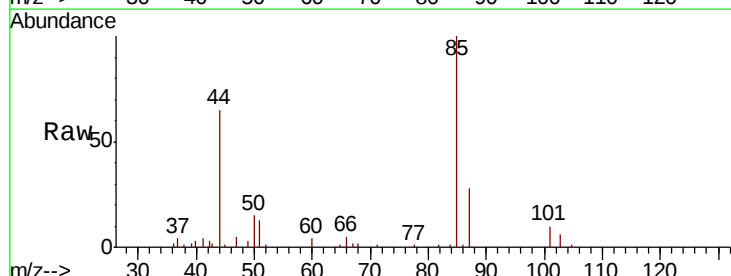
Acq: 29 May 2019 15:16

Tgt Ion: 85 Resp: 6863

Ion Ratio Lower Upper

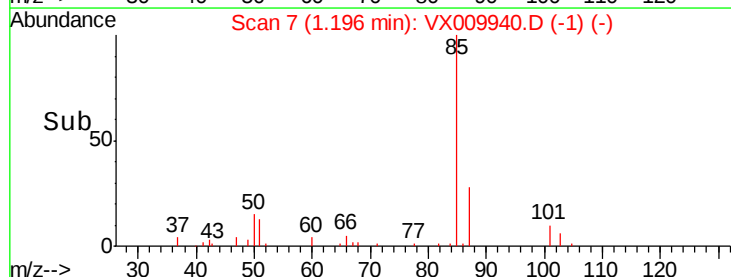
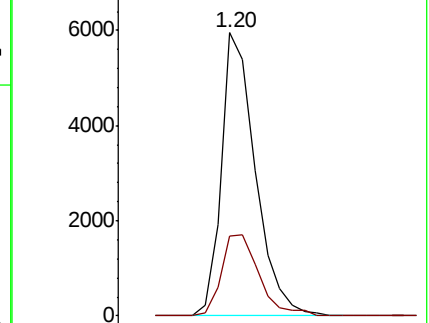
85 100

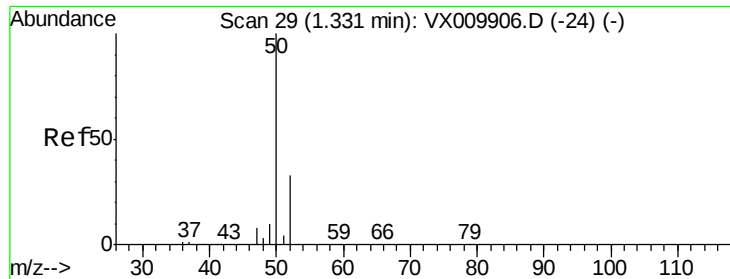
87 28.0 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.212 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX009940.D

Acq: 29 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

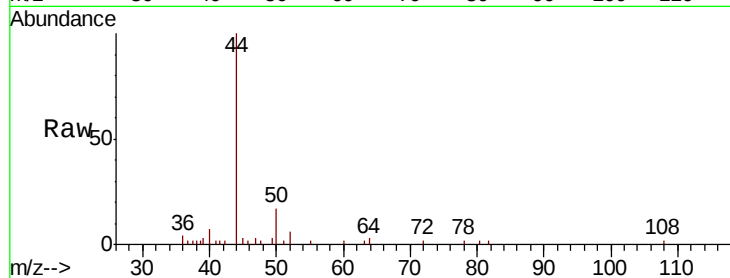
S32-0663

Tot Ion: 50 Resp: 602

Ion Ratio Lower Upper

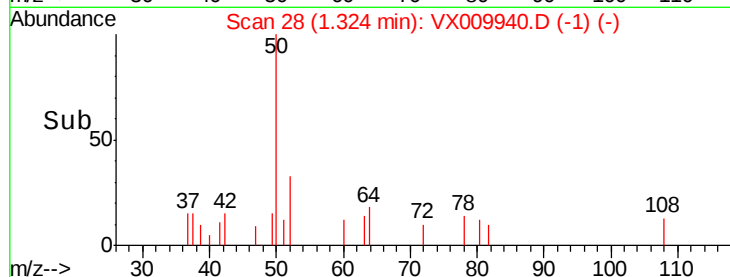
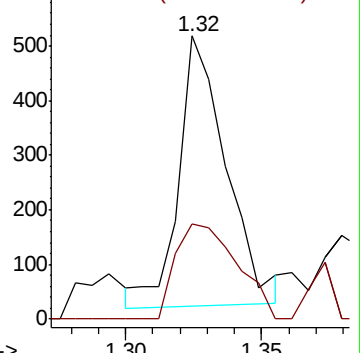
50 100

52 37.4 26.0 39.0

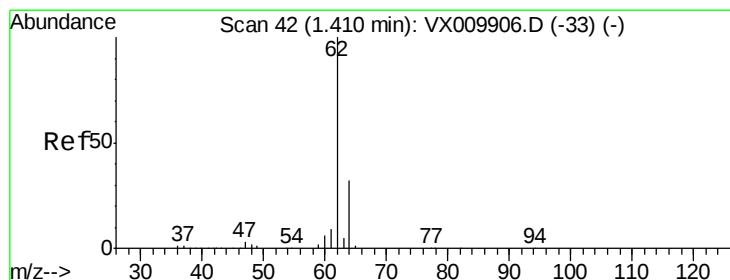


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#4

Vinyl Chloride

Concen: 6.077 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009940.D

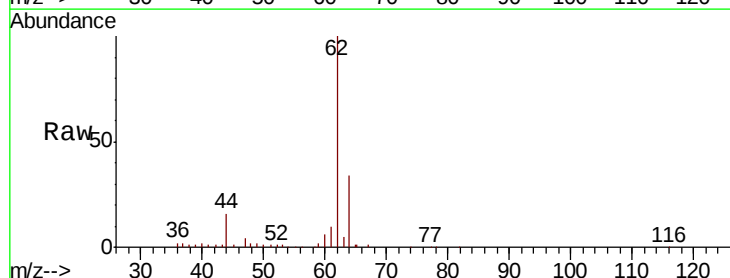
Acq: 29 May 2019 15:16

Tgt Ion: 62 Resp: 15531

Ion Ratio Lower Upper

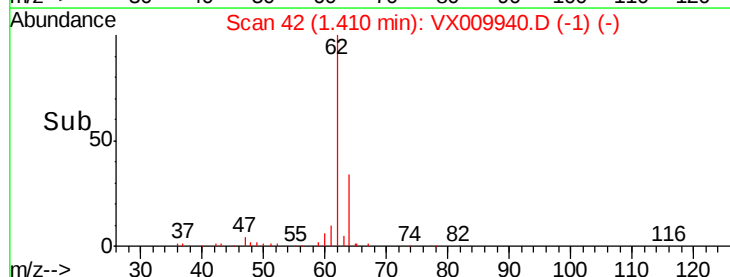
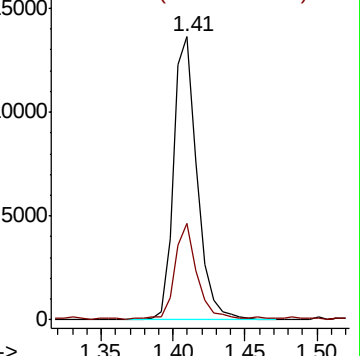
62 100

64 34.2 25.7 38.5

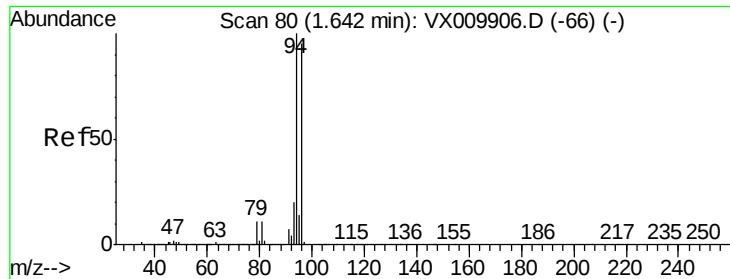


Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



Time-->



#5

Bromomethane

Concen: 0.224 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009940.D

Acq: 29 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

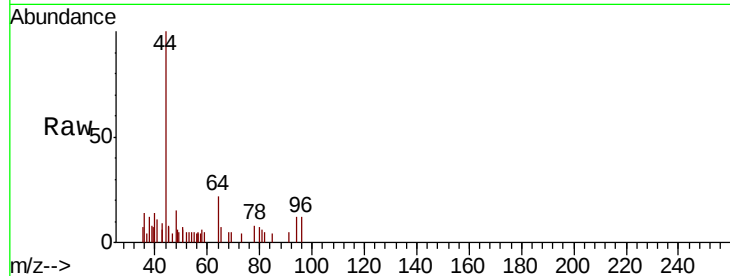
S32-0663

Tot Ion: 94 Resp: 347

Ion Ratio Lower Upper

94 100

96 94.3 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

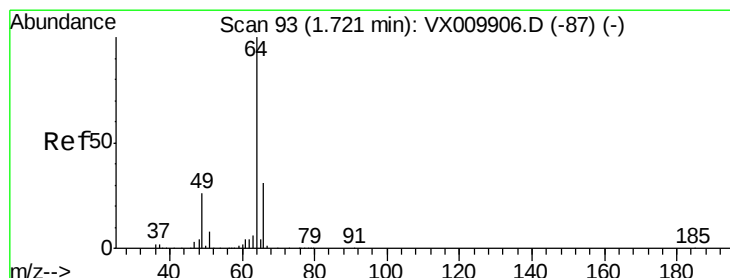
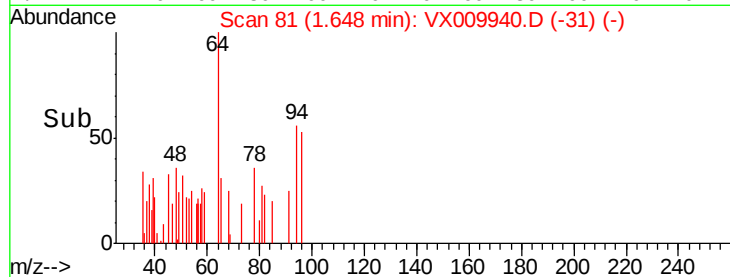
150

100

50

0

Time-->



#6

Chloroethane

Concen: 0.419 ug/l

RT: 1.72 min Scan# 93

Delta R.T. -0.00 min

Lab File: VX009940.D

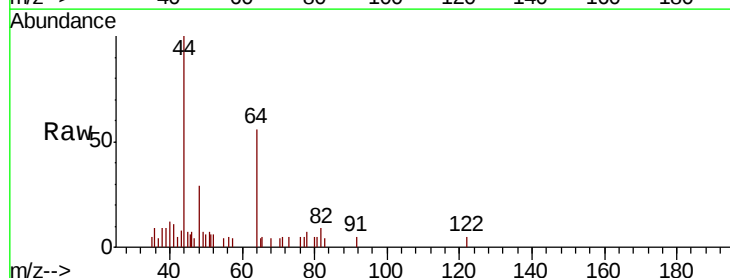
Acq: 29 May 2019 15:16

Tgt Ion: 64 Resp: 659

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

800

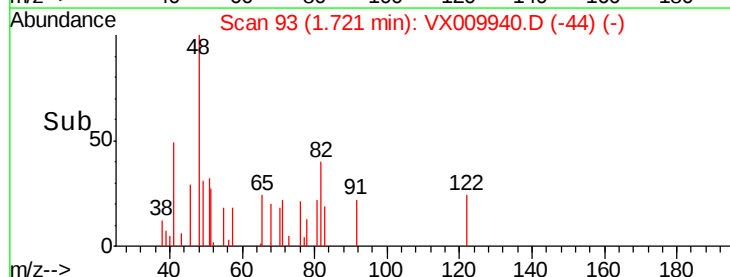
600

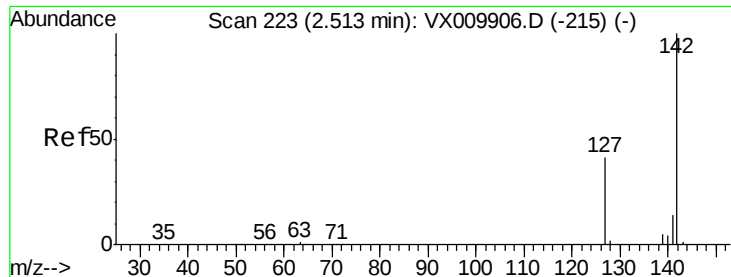
400

200

0

Time-->

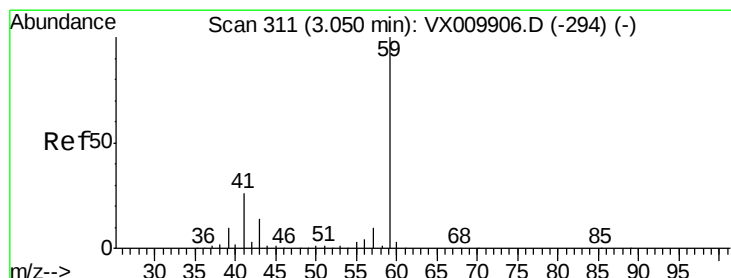
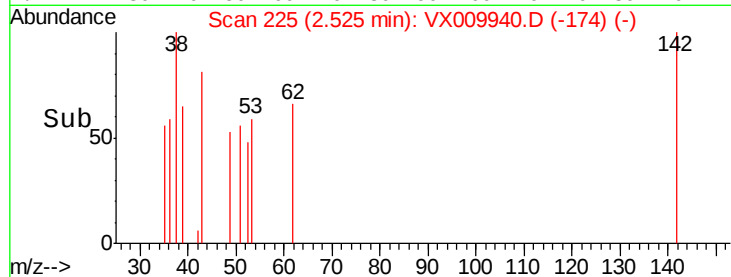
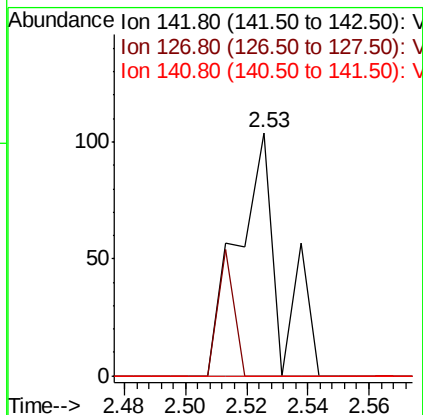
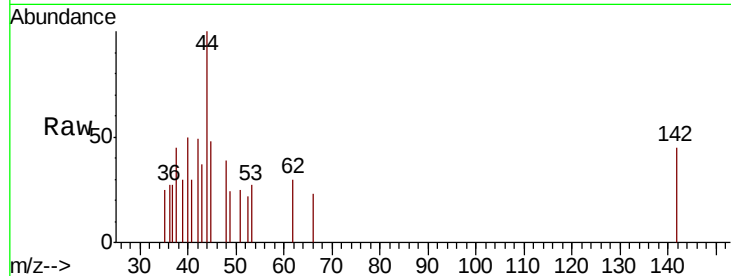




#10
Methvl Iodide
Concen: 4.700 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.01 min
Lab File: VX009940.D
Acq: 29 May 2019 15:16

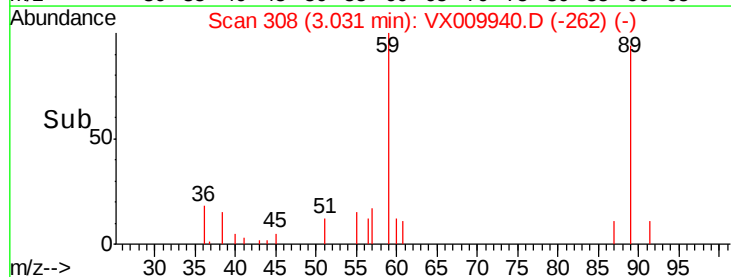
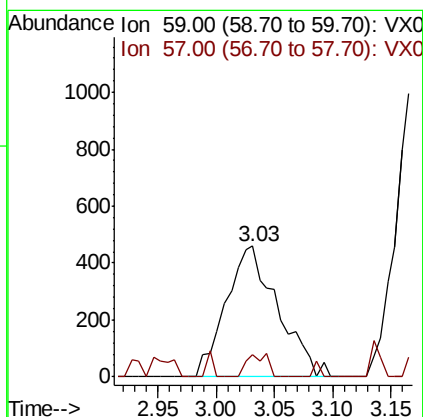
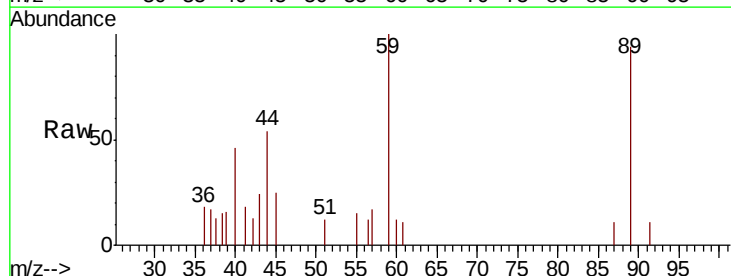
Instrument :
MSVOA_X
ClientSampled :
S32-0663

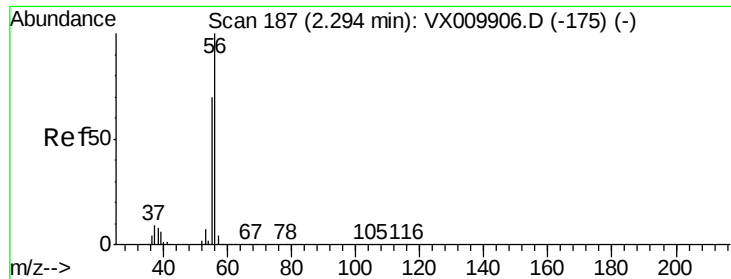
Tot Ion:142 Resp: 100
Ion Ratio Lower Upper
142 100
127 20.0 33.0 49.4#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.362 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX009940.D
Acq: 29 May 2019 15:16

Tgt Ion: 59 Resp: 1417
Ion Ratio Lower Upper
59 100
57 6.9 8.2 12.2#





#13

Acrolein

Concen: 21.568 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX009940.D

Acq: 29 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

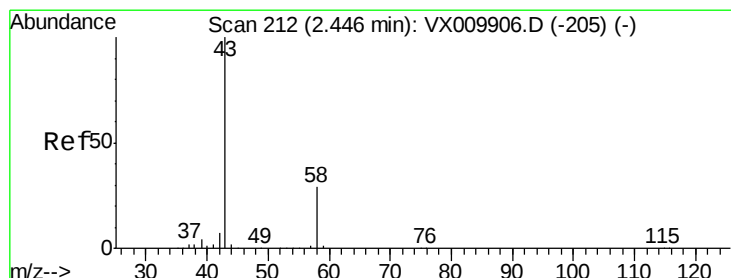
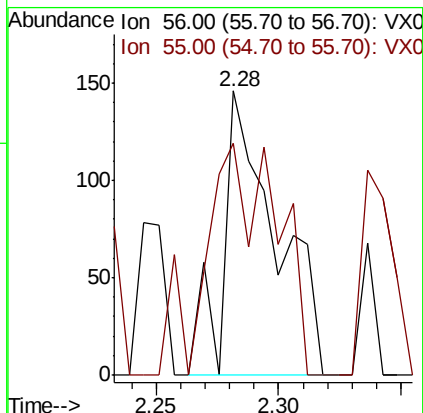
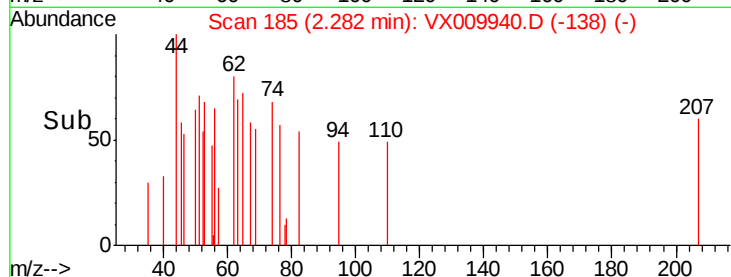
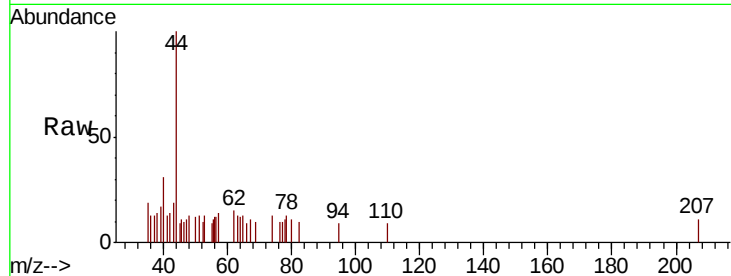
S32-0663

Tot Ion: 56 Resp: 219

Ion Ratio Lower Upper

56 100

55 67.1 57.0 85.4



#16

Acetone

Concen: 2.672 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009940.D

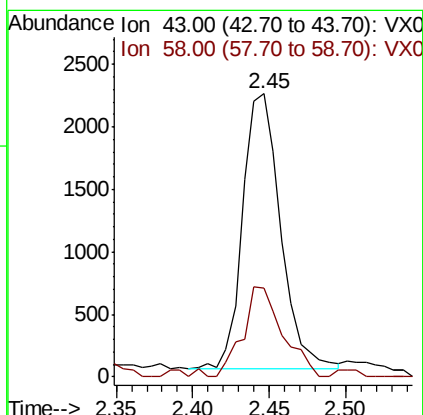
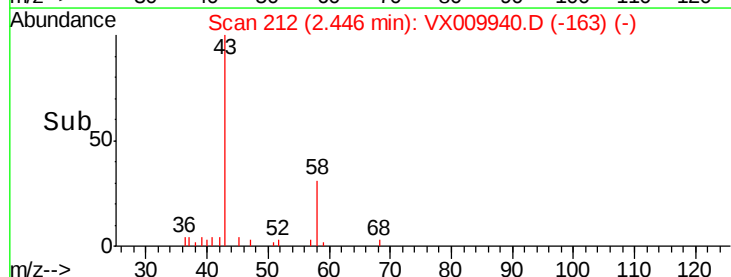
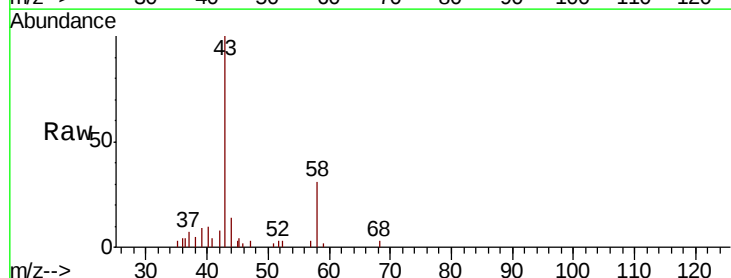
Acq: 29 May 2019 15:16

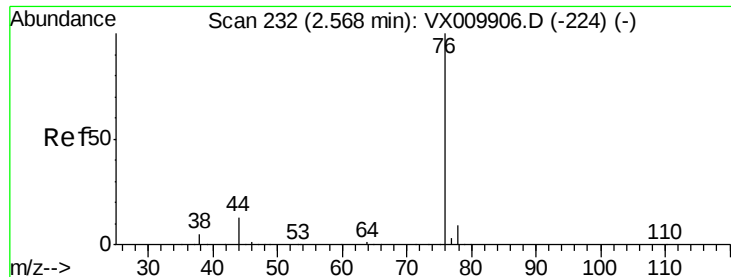
Tgt Ion: 43 Resp: 3764

Ion Ratio Lower Upper

43 100

58 32.4 23.2 34.8





#17

Carbon Disulfide

Concen: 0.754 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009940.D

Acq: 29 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

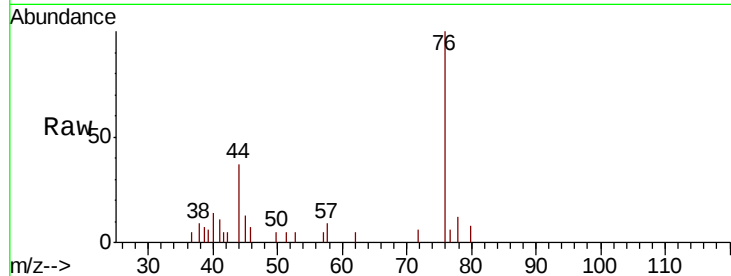
S32-0663

Tot Ion: 76 Resp: 1968

Ion Ratio Lower Upper

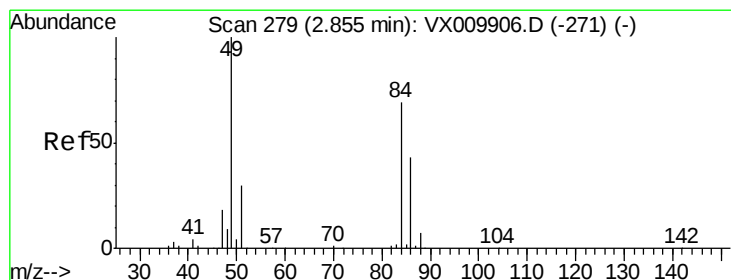
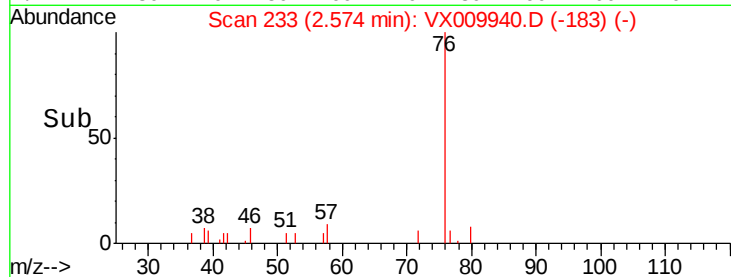
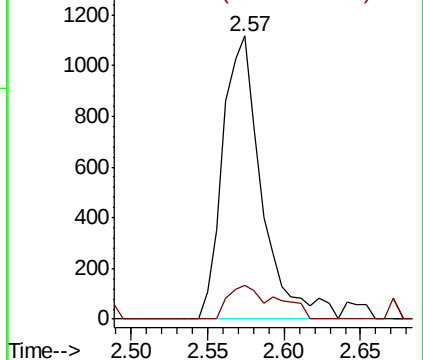
76 100

78 11.9 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.241 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009940.D

Acq: 29 May 2019 15:16

Tgt Ion: 84 Resp: 520

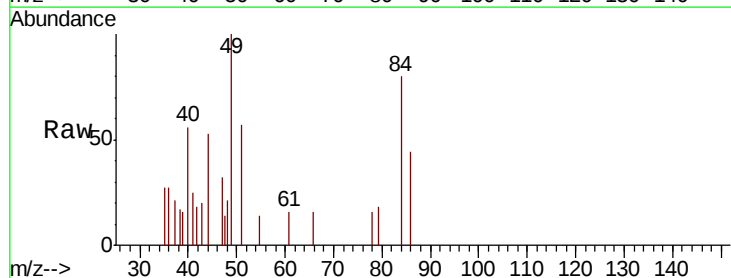
Ion Ratio Lower Upper

84 100

49 95.3 115.8 173.6#

51 70.8 34.4 51.6#

86 55.1 49.7 74.5

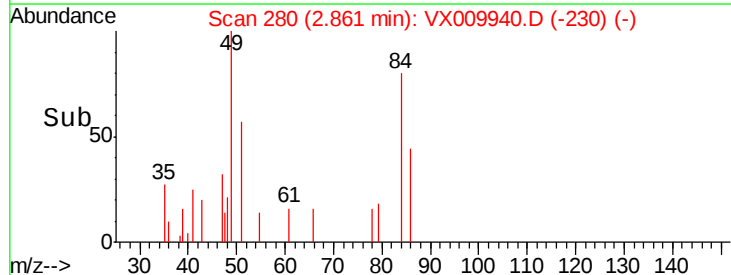
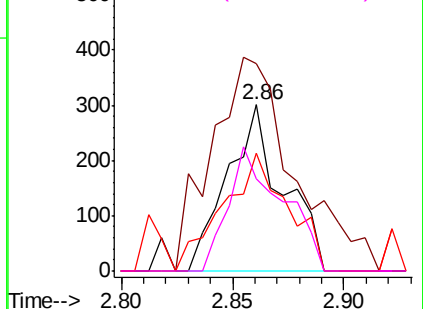


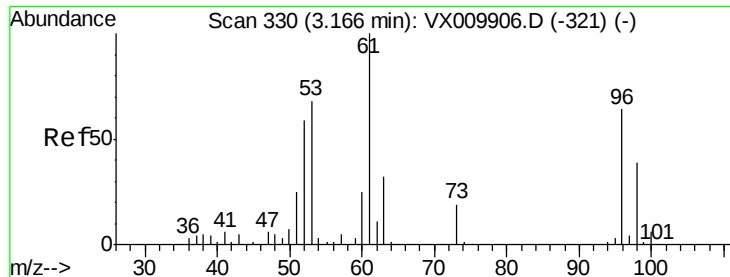
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 20.132 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX009940.D

Acq: 29 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

S32-0663

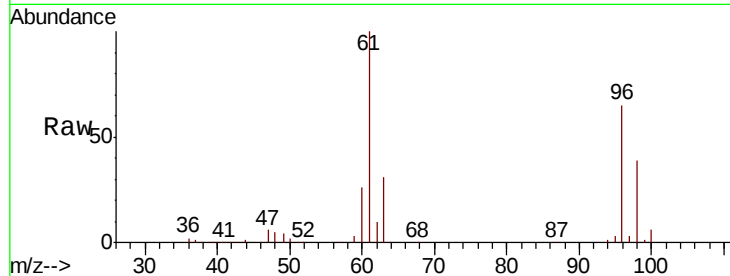
Tot Ion: 96 Resp: 39151

Ion Ratio Lower Upper

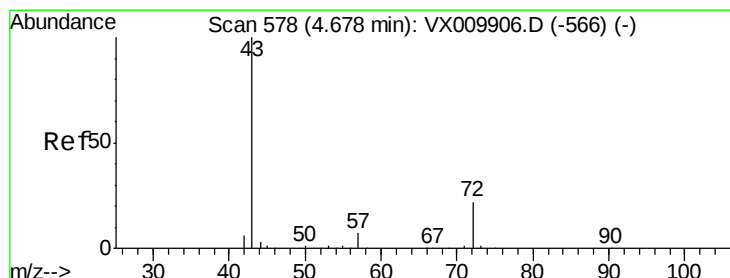
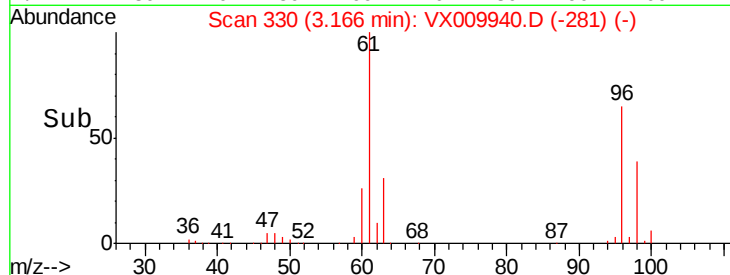
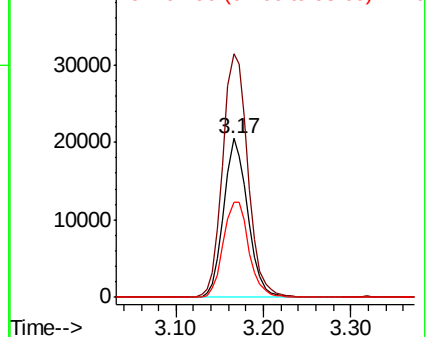
96 100

61 153.2 125.7 188.5

98 59.5 49.0 73.6



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



#25

2-Butanone

Concen: 0.528 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.02 min

Lab File: VX009940.D

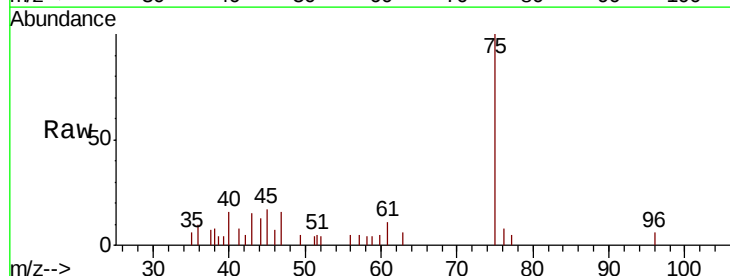
Acq: 29 May 2019 15:16

Tgt Ion: 43 Resp: 1159

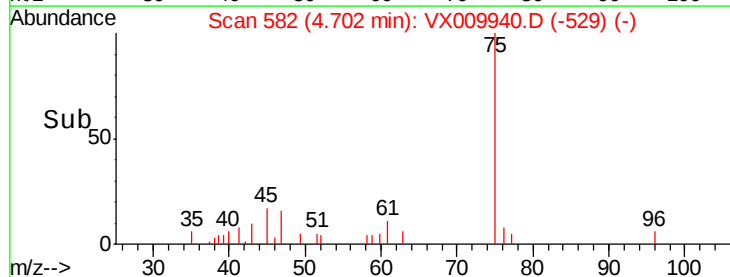
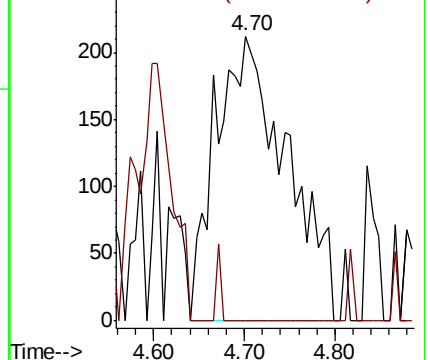
Ion Ratio Lower Upper

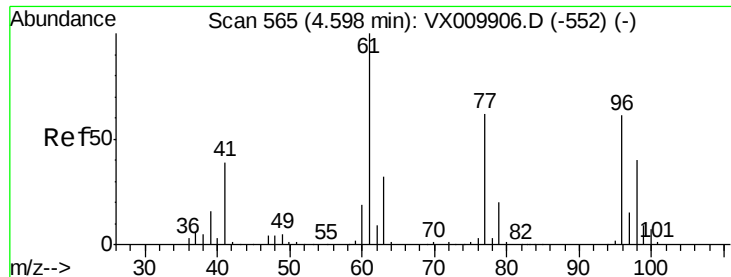
43 100

72 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



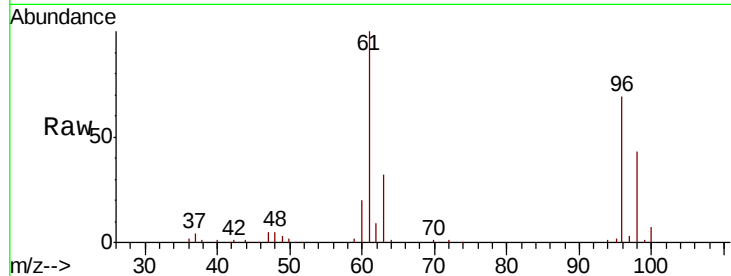


#27

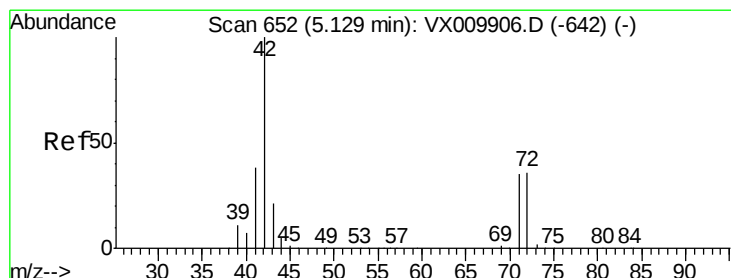
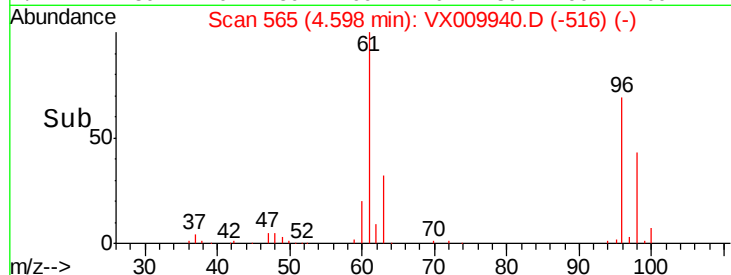
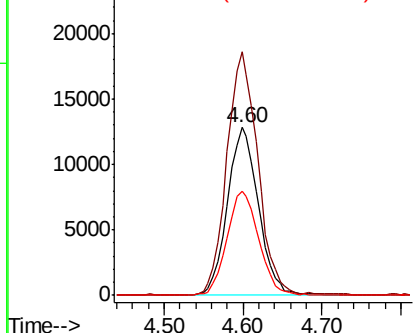
cis-1,2-Dichloroethene
 Concen: 15.644 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX009940.D
 Acq: 29 May 2019 15:16

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0663

Tot Ion	Ratio	Lower	Upper
96	100		
61	145.1	0.0	334.0
98	63.7	0.0	131.6



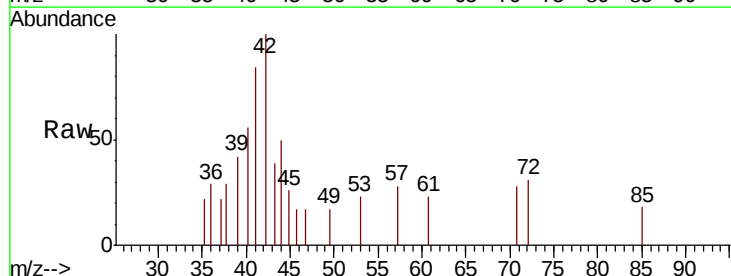
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



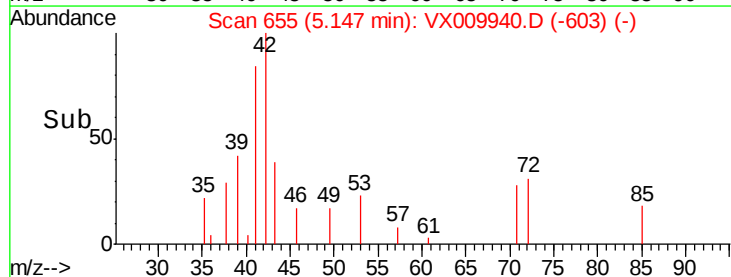
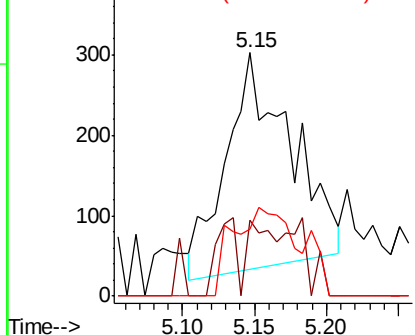
#29

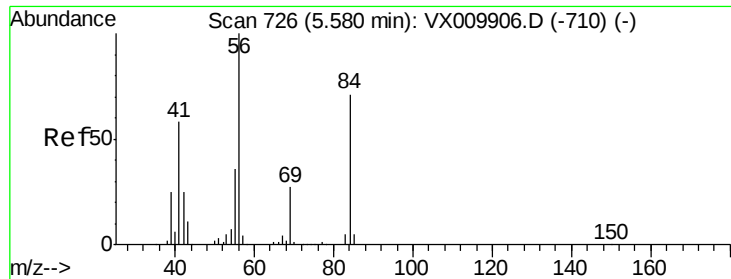
Tetrahydrofuran
 Concen: 0.596 ug/l
 RT: 5.15 min Scan# 655
 Delta R.T. 0.02 min
 Lab File: VX009940.D
 Acq: 29 May 2019 15:16

Tgt Ion	Ratio	Lower	Upper
42	100		
72	13.9	29.2	43.8#
71	42.9	27.6	41.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0

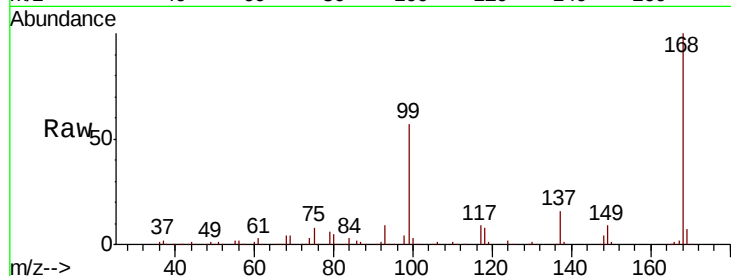




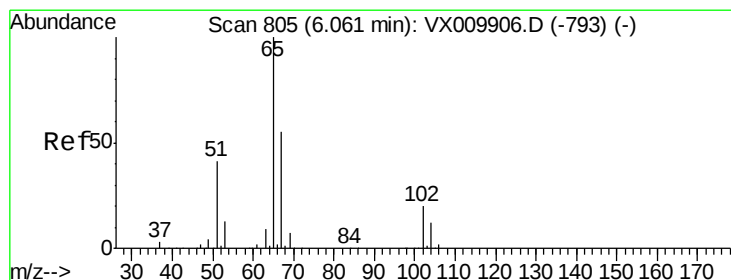
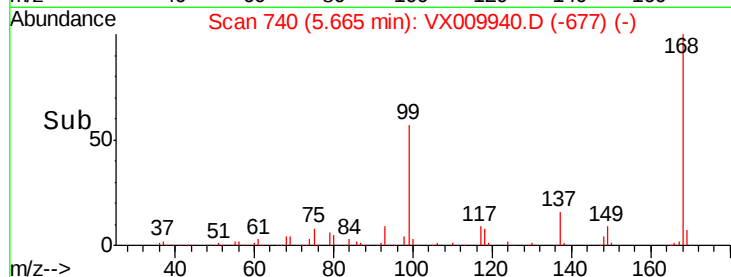
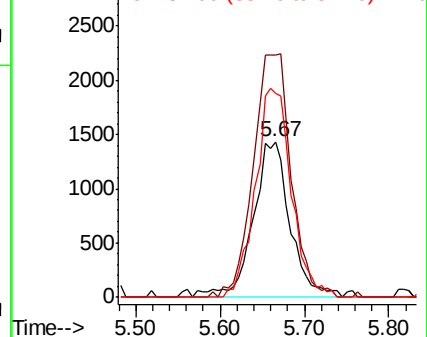
#31
Cyclohexane
Concen: 1.161 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX009940.D
Acq: 29 May 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
S32-0663

Tot Ion: 56 Resp: 4306
Ion Ratio Lower Upper
56 100
69 155.2 21.6 32.4#
84 131.3 56.8 85.2#

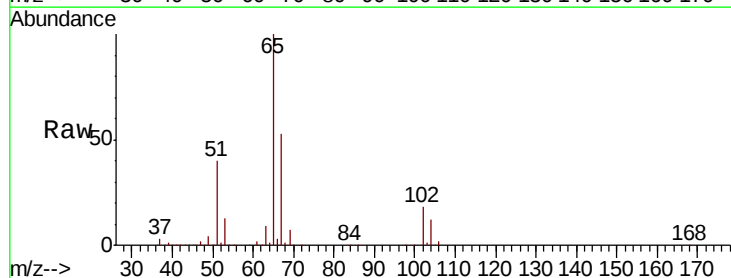


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

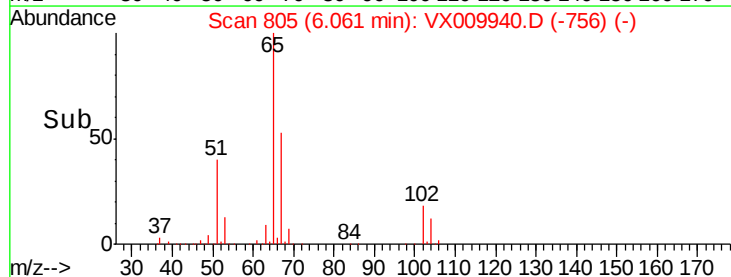
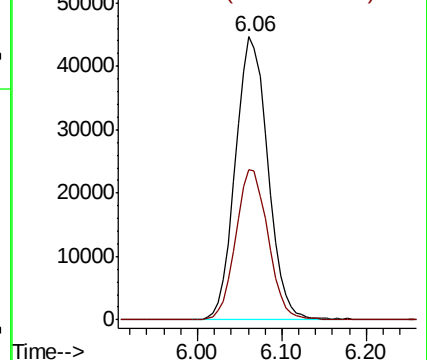


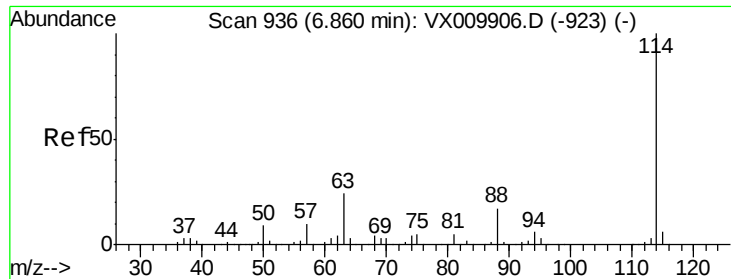
#33
1,2-Dichloroethane-d4
Concen: 47.857 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009940.D
Acq: 29 May 2019 15:16

Tgt Ion: 65 Resp: 116669
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

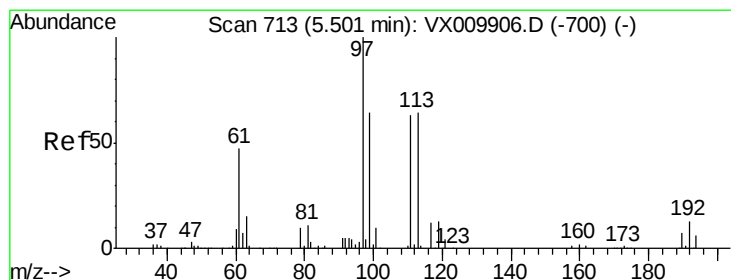
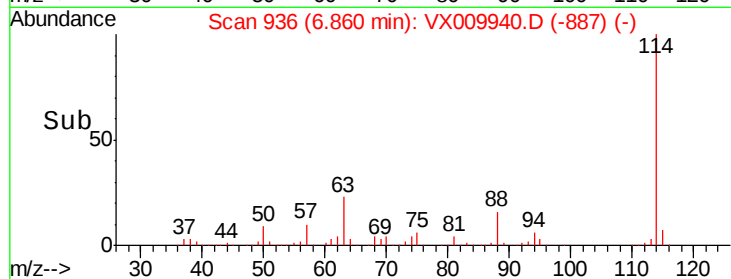
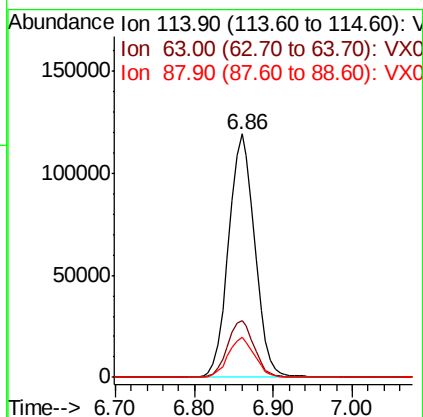
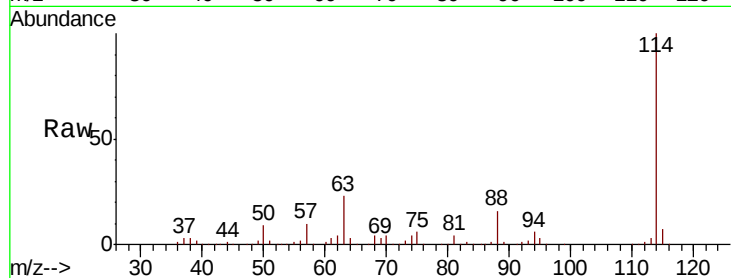




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX009940.D
Acq: 29 May 2019 15:16

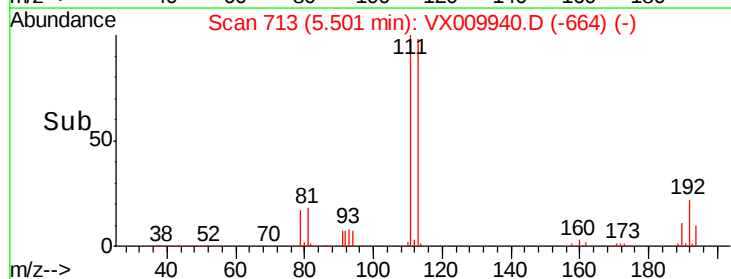
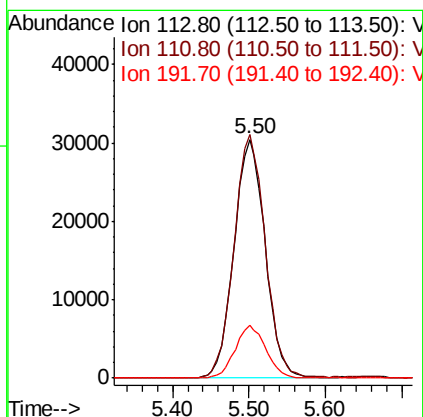
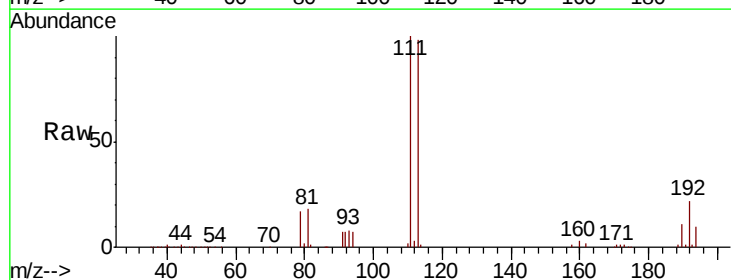
Instrument :
MSVOA_X
ClientSampleId :
S32-0663

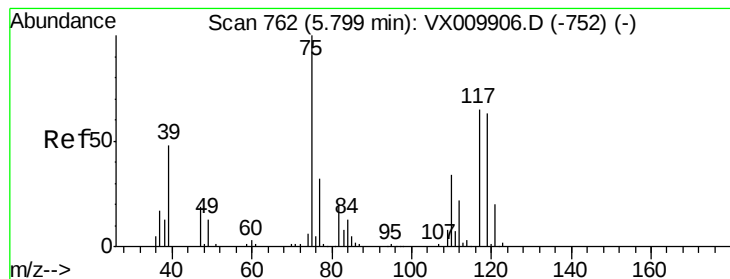
Tot Ion:114 Resp: 276243
Ion Ratio Lower Upper
114 100
63 23.3 0.0 47.4
88 16.3 0.0 33.0



#35
Dibromofluoromethane
Concen: 49.679 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX009940.D
Acq: 29 May 2019 15:16

Tgt Ion:113 Resp: 86280
Ion Ratio Lower Upper
113 100
111 101.7 82.2 123.2
192 21.7 17.1 25.7





#36

1,1-Dichloropropene

Concen: 4.967 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009940.D

Acq: 29 May 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

S32-0663

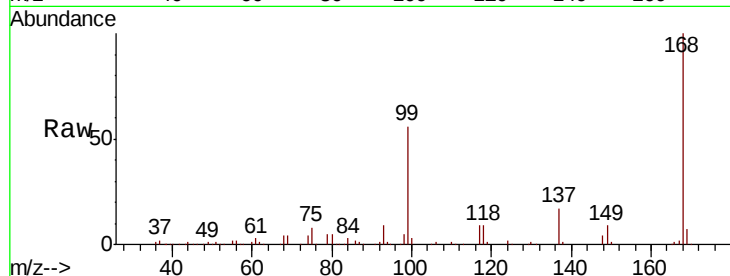
Tot Ion: 75 Resp: 13922

Ion Ratio Lower Upper

75 100

110 9.4 16.7 50.1#

77 0.0 25.0 37.4#



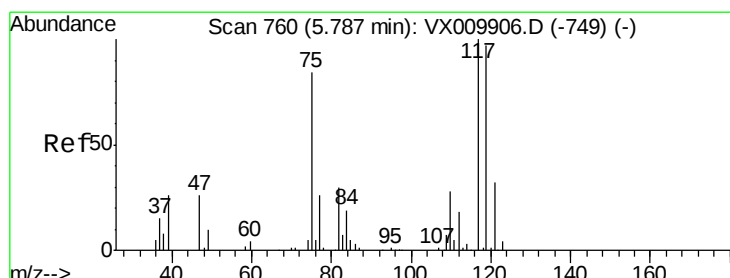
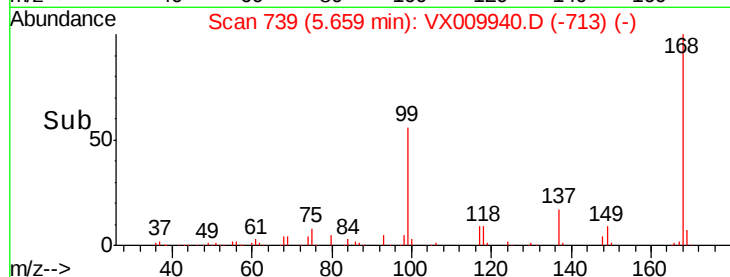
Abundance Ion 74.90 (74.60 to 75.60): VX009940.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX009940.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX009940.D (-713) (-)

5.66

Time-->



#38

Carbon Tetrachloride

Concen: 6.580 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009940.D

Acq: 29 May 2019 15:16

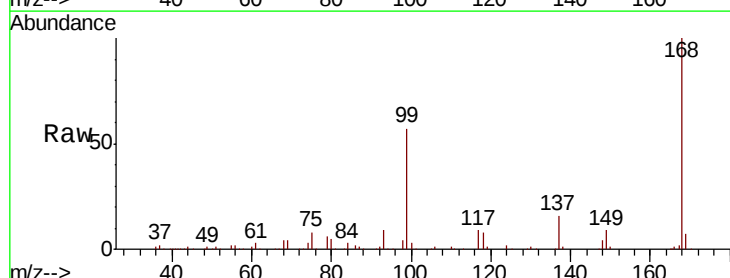
Tgt Ion: 117 Resp: 15936

Ion Ratio Lower Upper

117 100

119 5.7 77.3 115.9#

121 0.0 25.4 38.0#



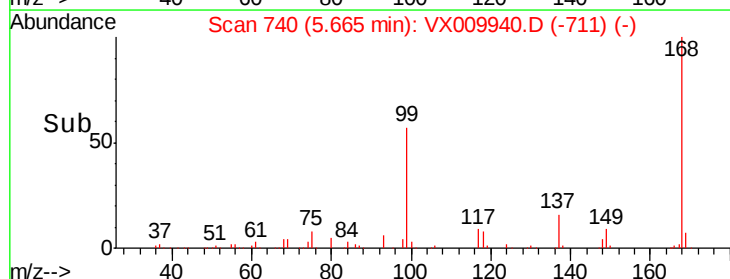
Abundance Ion 116.80 (116.50 to 117.50): VX009940.D (-711) (-)

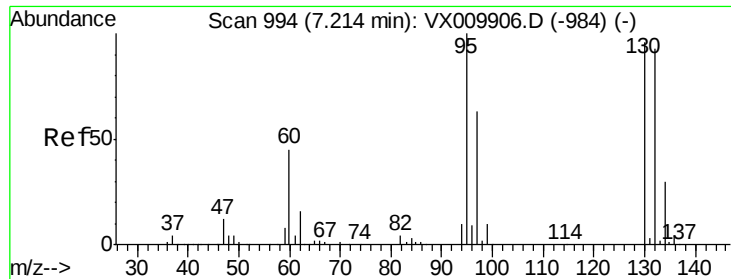
Ion 118.80 (118.50 to 119.50): VX009940.D (-711) (-)

Ion 120.80 (120.50 to 121.50): VX009940.D (-711) (-)

5.67

Time-->

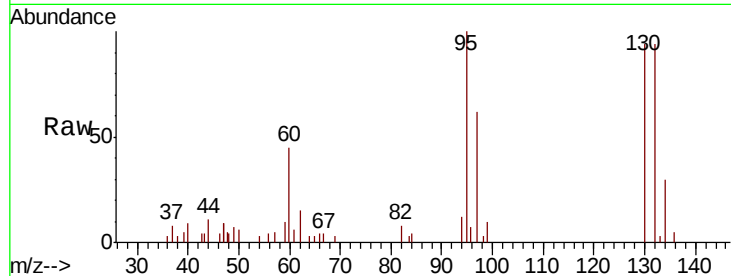




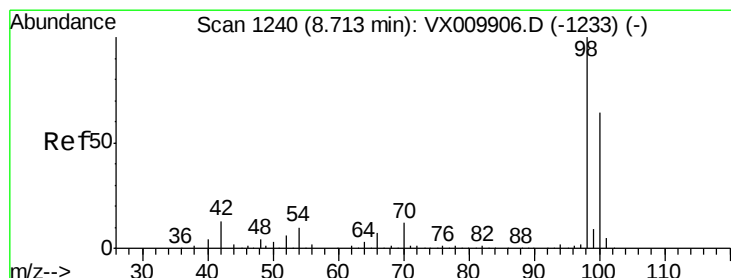
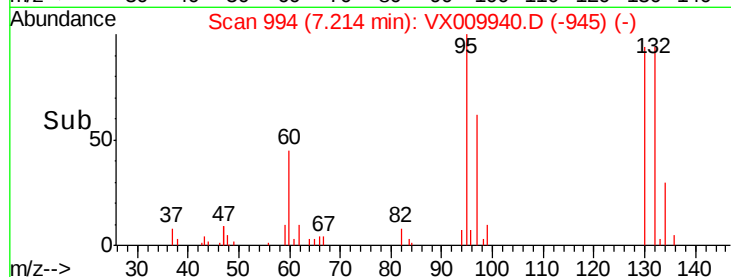
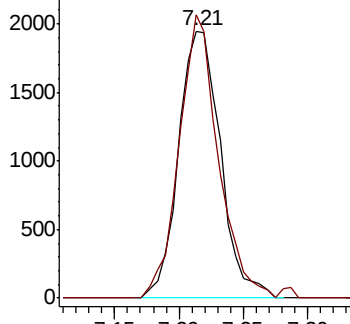
#44
 Trichloroethene
 Concen: 2.175 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX009940.D
 Acq: 29 May 2019 15:16

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0663

Tot Ion:130 Resp: 4393
 Ion Ratio Lower Upper
 130 100
 95 106.1 0.0 207.4

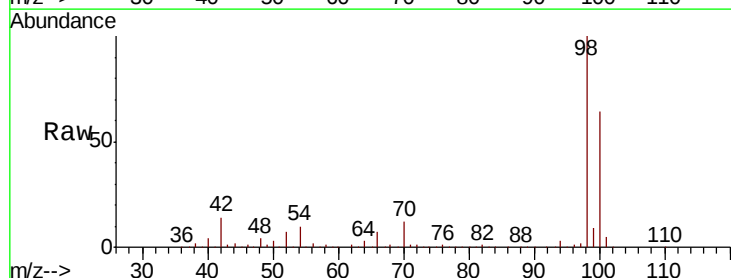


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

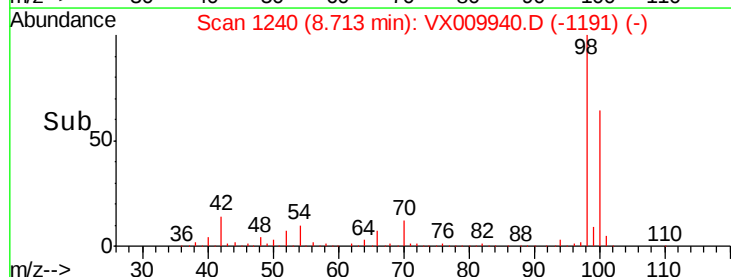
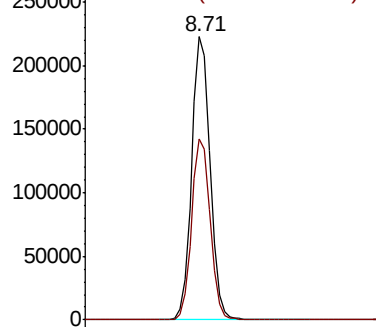


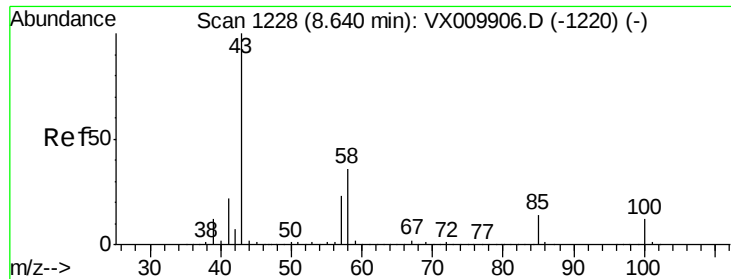
#50
 Toluene-d8
 Concen: 49.772 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX009940.D
 Acq: 29 May 2019 15:16

Tgt Ion: 98 Resp: 351016
 Ion Ratio Lower Upper
 98 100
 100 64.3 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.307 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX009940.D

Acq: 29 May 2019 15:16

Instrument :

MSVOA_X

ClientSampled :

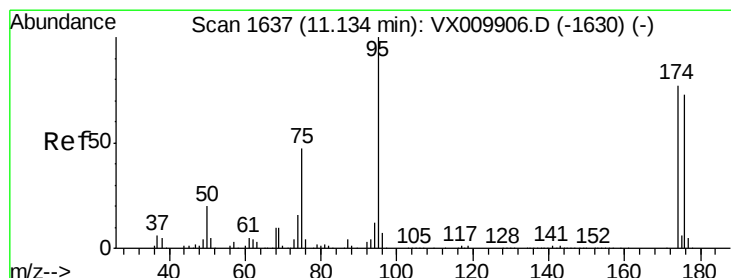
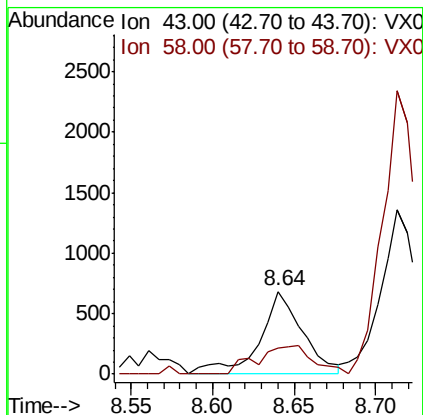
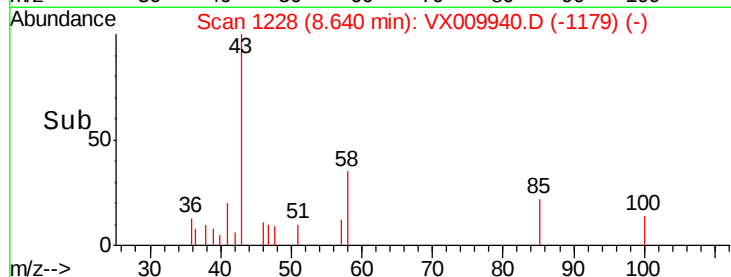
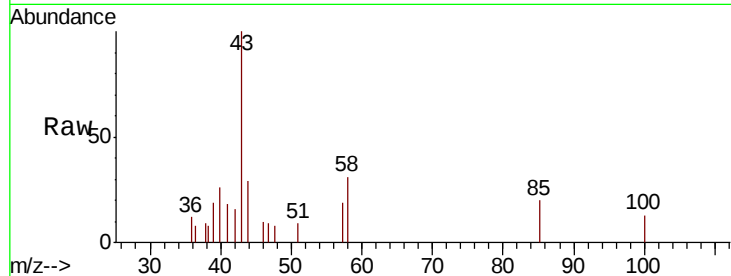
S32-0663

Tot Ion: 43 Resp: 1258

Ion Ratio Lower Upper

43 100

58 44.8 28.8 43.2#



#62

4-Bromofluorobenzene

Concen: 46.479 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009940.D

Acq: 29 May 2019 15:16

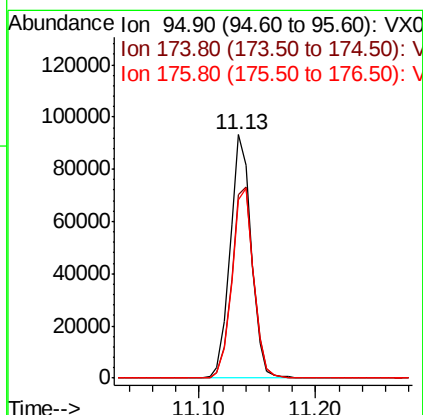
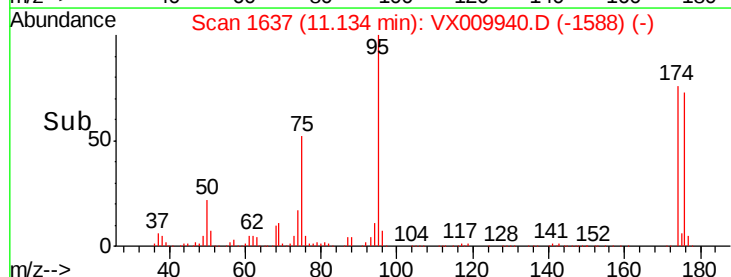
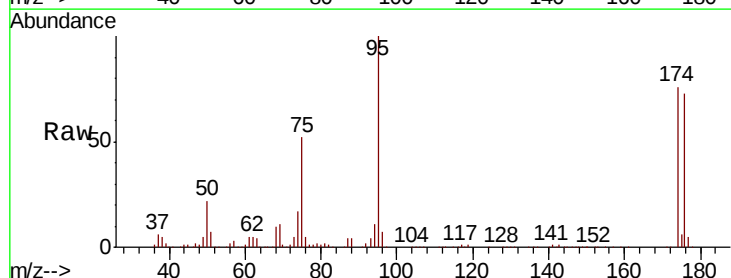
Tgt Ion: 95 Resp: 117739

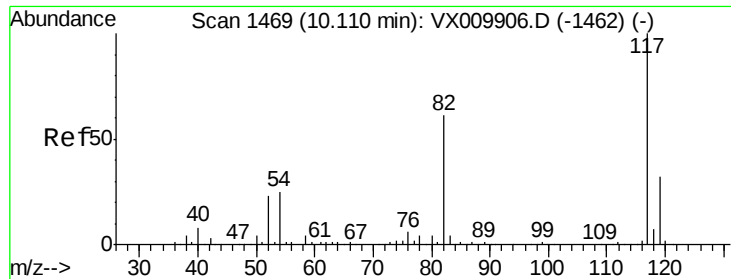
Ion Ratio Lower Upper

95 100

174 80.7 0.0 160.4

176 79.3 0.0 154.6

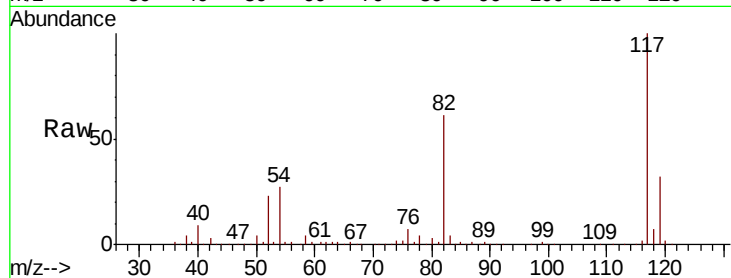




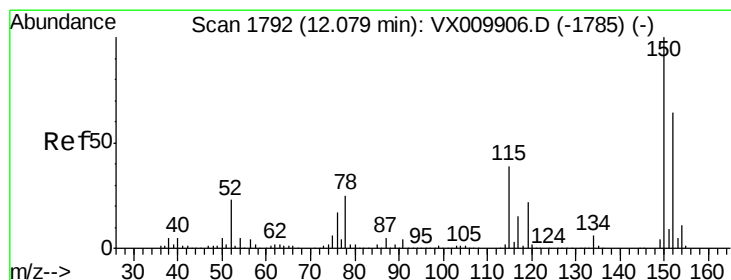
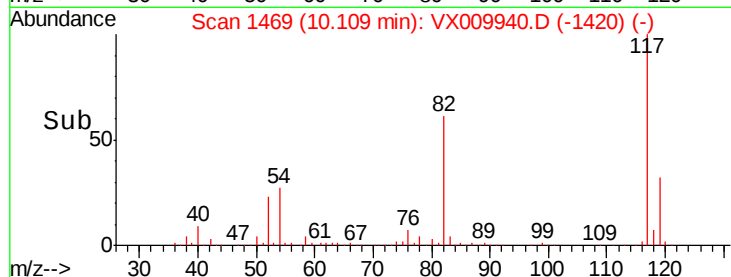
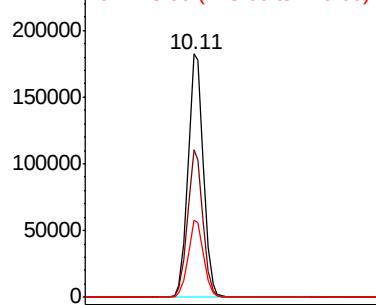
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009940.D
Acq: 29 May 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
S32-0663

Tot Ion:117 Resp: 248537
Ion Ratio Lower Upper
117 100
82 60.6 49.2 73.8
119 31.9 25.2 37.8

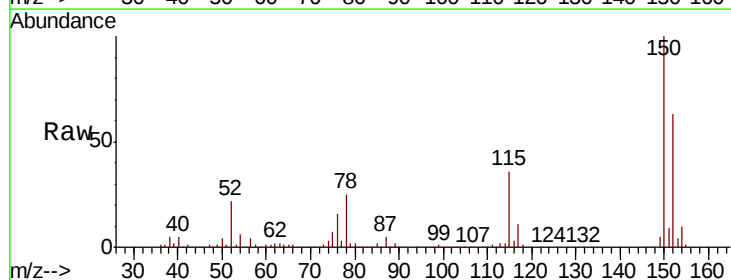


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

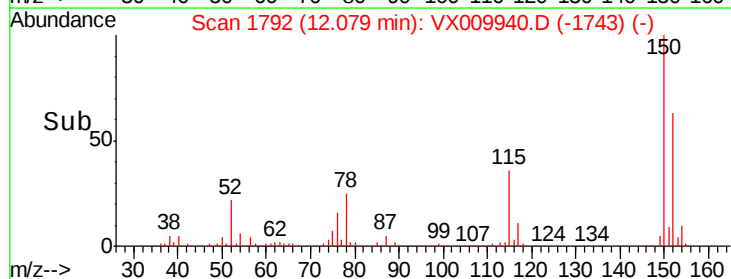
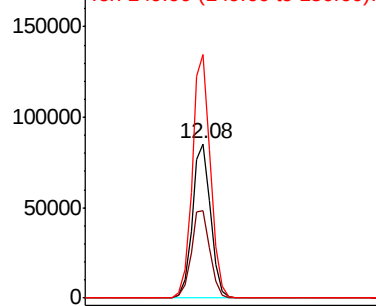


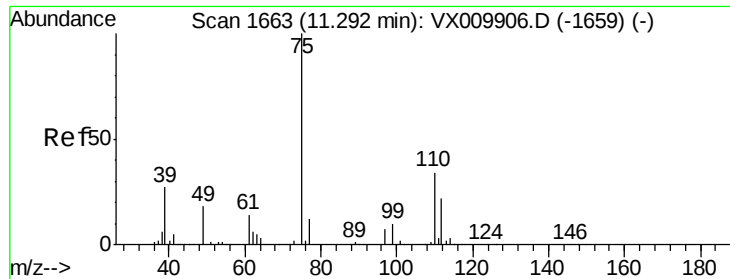
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009940.D
Acq: 29 May 2019 15:16

Tgt Ion:152 Resp: 105824
Ion Ratio Lower Upper
152 100
115 58.5 41.4 124.2
150 157.4 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: 24.151 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009940.D

Acq: 29 May 2019 15:16

Instrument :

MSVOA_X

ClientSampled :

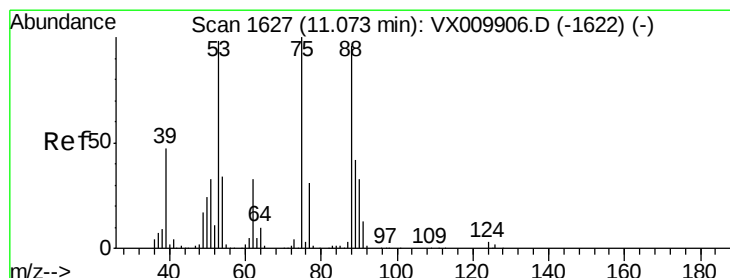
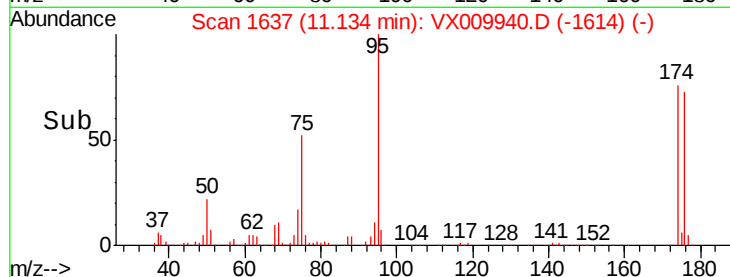
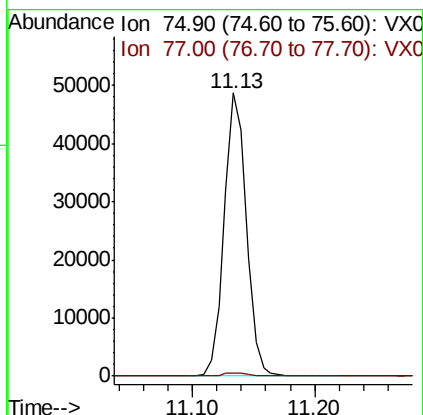
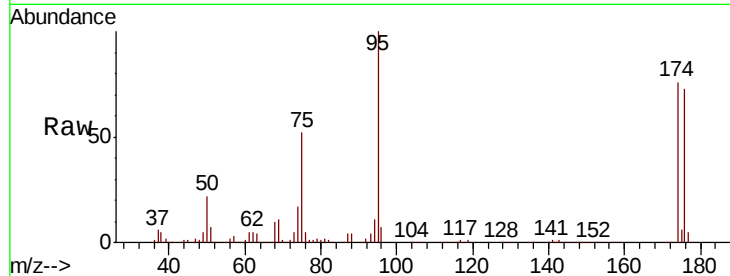
S32-0663

Tot Ion: 75 Resp: 61116

Ion Ratio Lower Upper

75 100

77 1.3 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.753 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009940.D

Acq: 29 May 2019 15:16

Tgt Ion: 75 Resp: 61116

Ion Ratio Lower Upper

75 100

53 0.3 79.8 119.6#

89 0.0 34.2 51.4#

