

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122118\
 Data File : VX006725.D
 Acq On : 21 Dec 2018 15:56
 Operator : JC/MD
 Sample : J6514-03DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0496DL

Quant Time: Dec 22 04:04:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	627887	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	984748	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	883136	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	407630	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	338312	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
35) Dibromofluoromethane	5.51	113	300839	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
50) Toluene-d8	8.71	98	1144073	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
62) 4-Bromofluorobenzene	11.14	95	395525	46.00	ug/l	0.00
Spiked Amount			Recovery	=	92.00%	

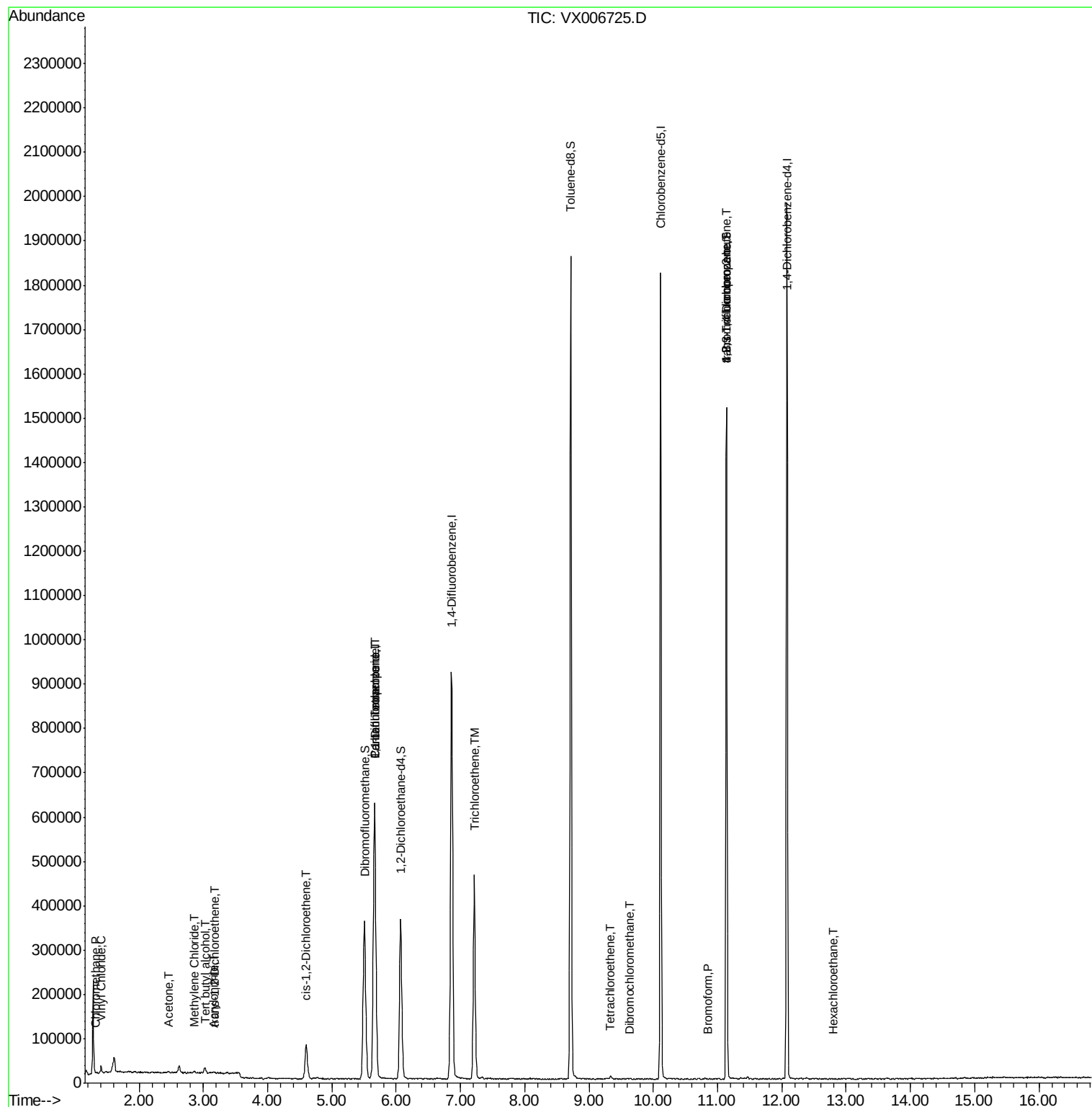
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1417	0.229	ug/l #	67
4) Vinyl Chloride	1.41	62	9013	1.395	ug/l	99
5) Bromomethane	1.66	94	1145	Below Cal	#	27
11) Tert butyl alcohol	3.02	59	8280	5.483	ug/l #	87
15) Acrylonitrile	3.16	53	1071	0.319	ug/l #	57
16) Acetone	2.45	43	4545	1.462	ug/l	98
20) Methylene Chloride	2.85	84	2075	0.323	ug/l #	75
21) trans-1,2-Dichloroethene	3.17	96	1766	0.284	ug/l	96
27) cis-1,2-Dichloroethene	4.60	96	53734	7.835	ug/l	89
28) Bromochloromethane	5.01	49	289	Below Cal	#	22
36) 1,1-Dichloropropene	5.67	75	39650	4.861	ug/l #	49
38) Carbon Tetrachloride	5.67	117	58412	7.369	ug/l #	15
44) Trichloroethene	7.21	130	179955	23.982	ug/l	99
49) 1,4-Dioxane	7.76	88	117	Below Cal	#	25
60) Dibromochloromethane	9.63	129	54	2.332	ug/l	56
64) Tetrachloroethene	9.34	164	1541	0.220	ug/l #	90
71) Bromoform	10.85	173	183	4.492	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	187165	24.707	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	187165	73.057	ug/l #	10
90) Hexachloroethane	12.80	117	66	3.309	ug/l	77

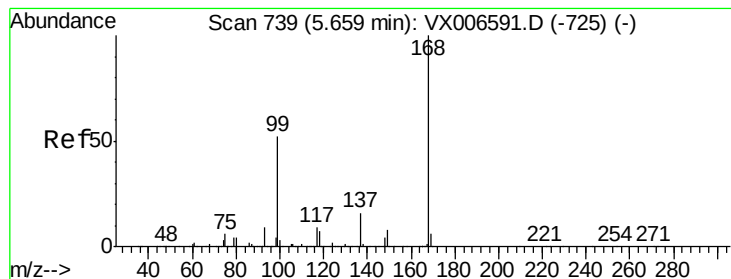
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

Instrument :

MSVOA_X

ClientSampled :

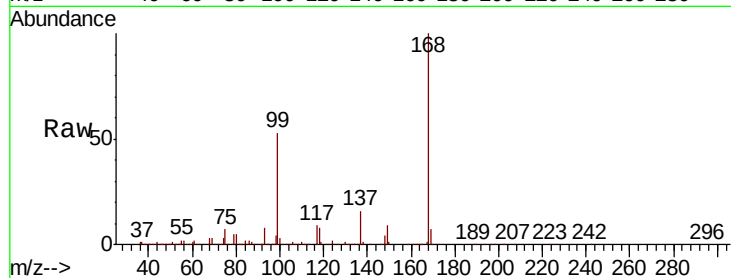
S49-0496DL

Tot Ion:168 Resp: 627887

Ion Ratio Lower Upper

168 100

99 52.6 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

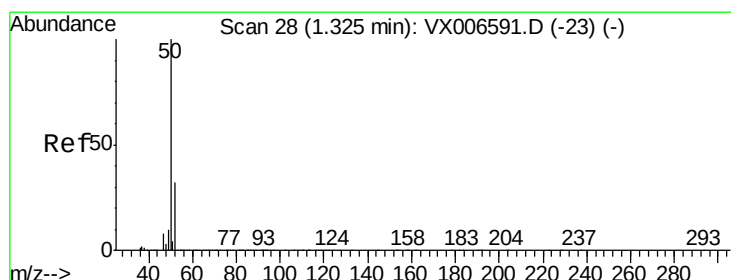
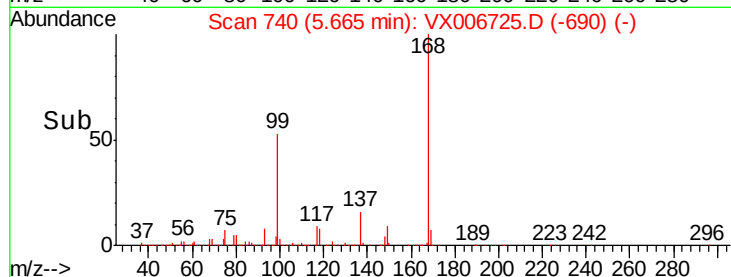
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.229 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006725.D

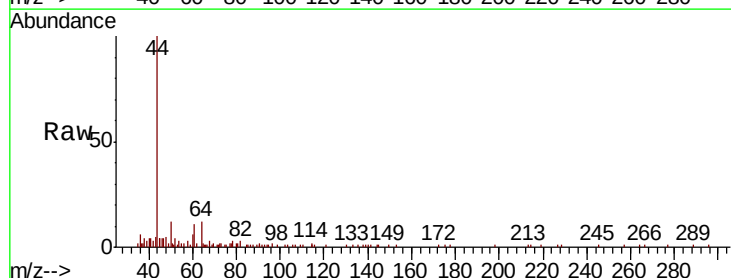
Acq: 21 Dec 2018 15:56

Tgt Ion: 50 Resp: 1417

Ion Ratio Lower Upper

50 100

52 13.6 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

1200

1000

800

600

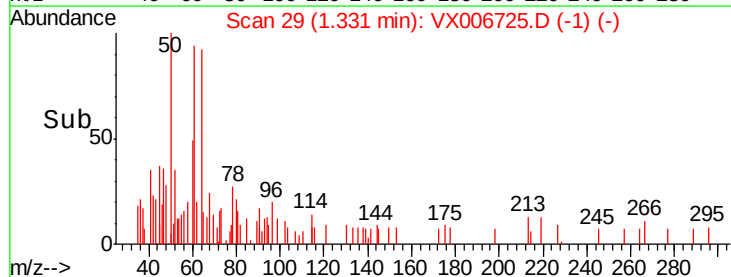
400

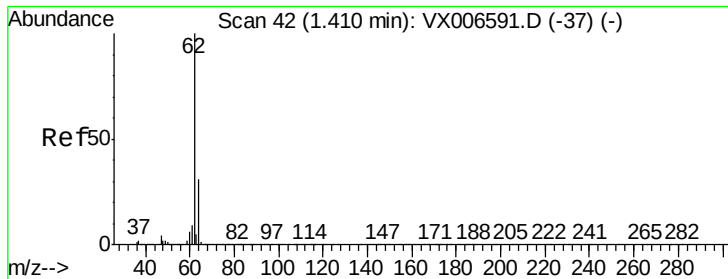
200

0

Time-->

1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 1.395 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

Instrument :

MSVOA_X

ClientSampled :

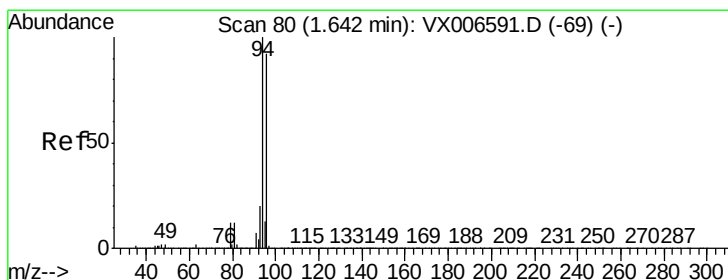
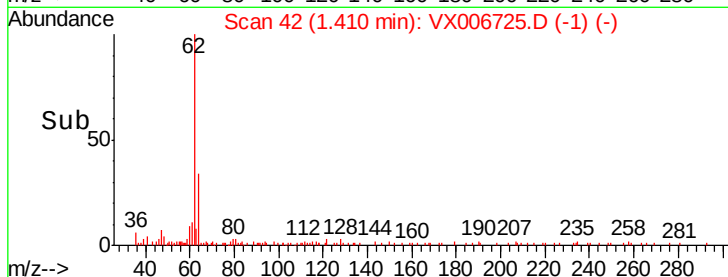
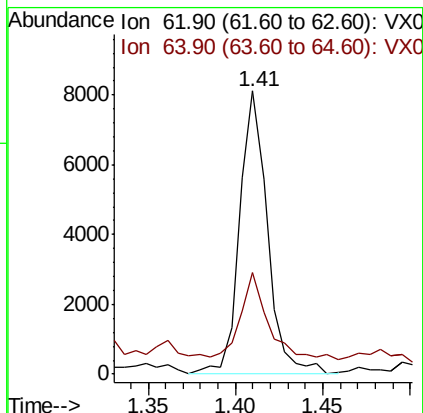
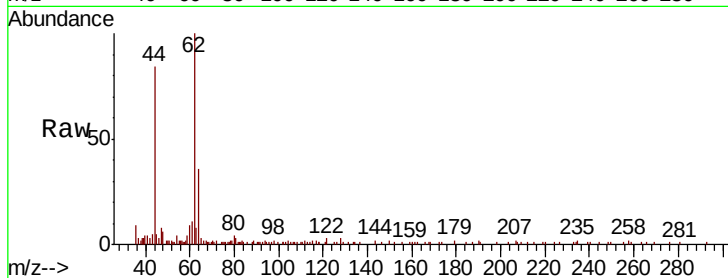
S49-0496DL

Tot Ion: 62 Resp: 9013

Ion Ratio Lower Upper

62 100

64 30.7 25.1 37.7



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX006725.D

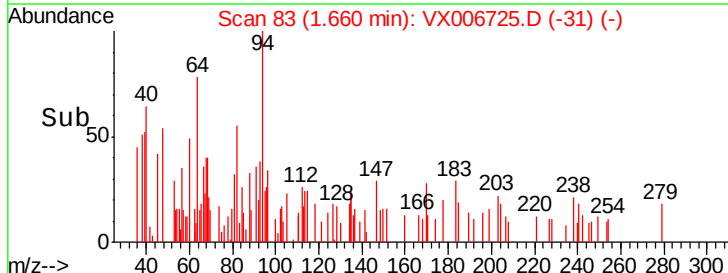
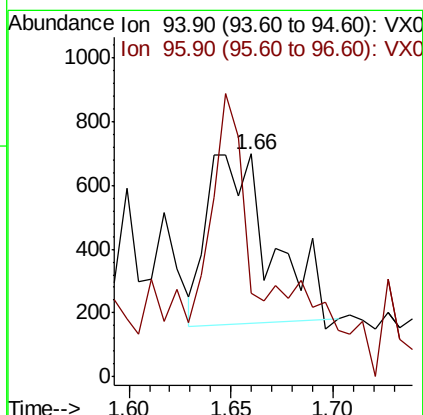
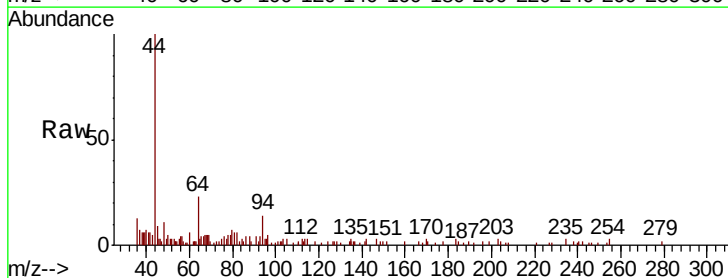
Acq: 21 Dec 2018 15:56

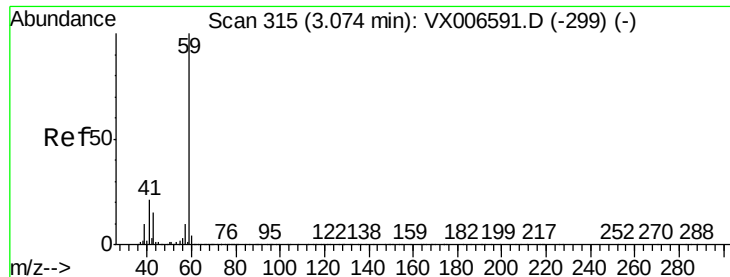
Tgt Ion: 94 Resp: 1145

Ion Ratio Lower Upper

94 100

96 22.5 73.4 110.2#



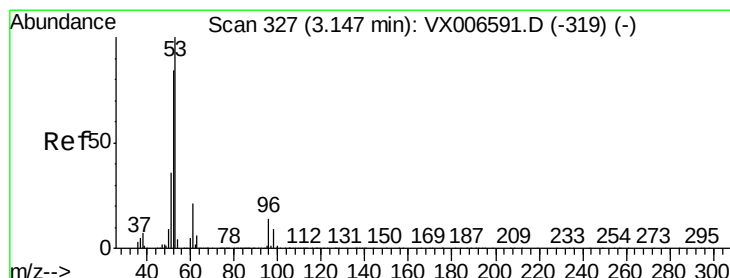
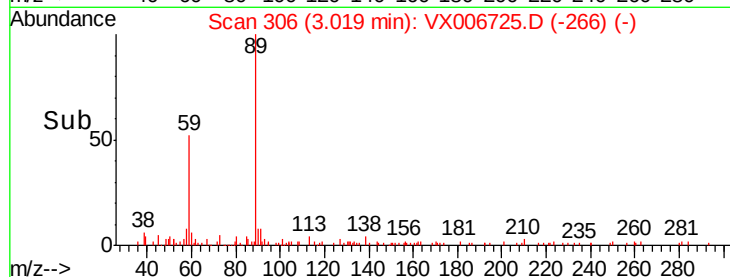
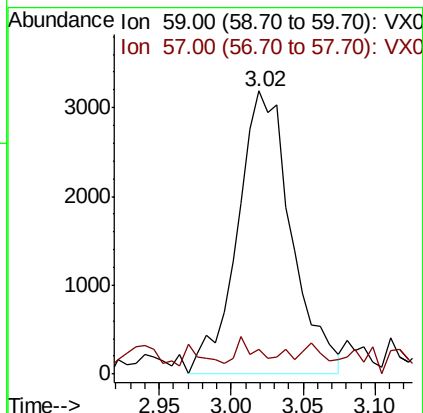
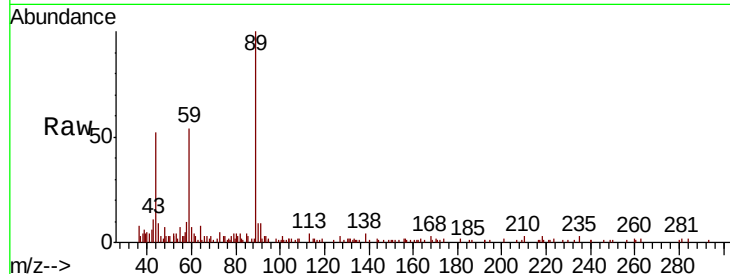


#11

Tert butyl alcohol
 Concen: 5.483 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.05 min
 Lab File: VX006725.D
 Acq: 21 Dec 2018 15:56

Instrument :
 MSVOA_X
 ClientSampled :
 S49-0496DL

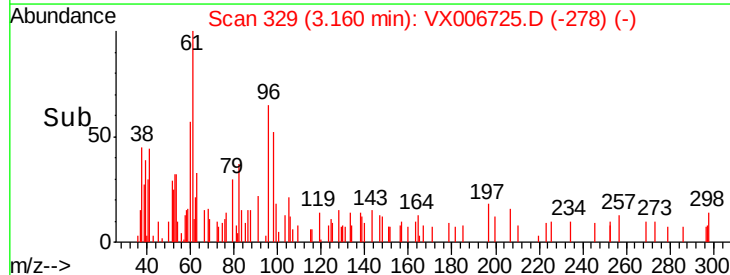
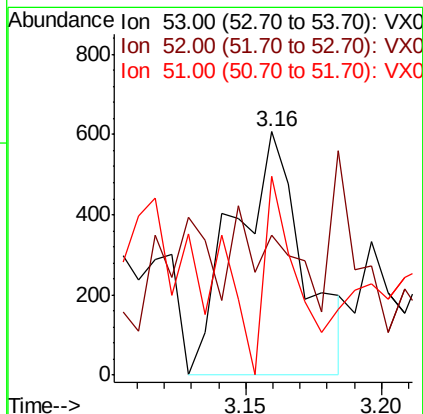
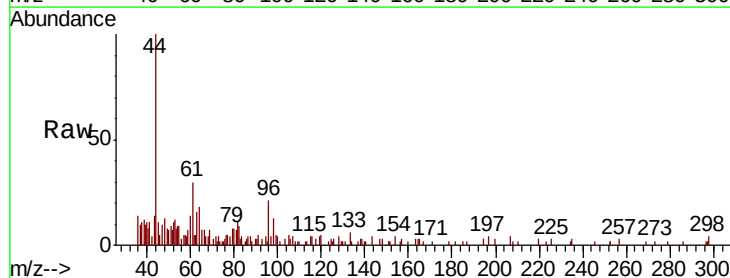
Tot Ion: 59 Resp: 8280
 Ion Ratio Lower Upper
 59 100
 57 5.7 8.5 12.7#

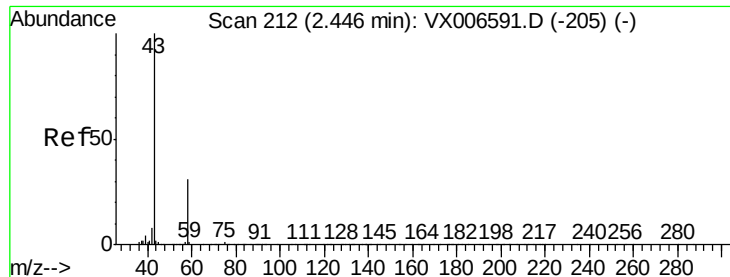


#15

Acrylonitrile
 Concen: 0.319 ug/l
 RT: 3.16 min Scan# 329
 Delta R.T. 0.01 min
 Lab File: VX006725.D
 Acq: 21 Dec 2018 15:56

Tgt Ion: 53 Resp: 1071
 Ion Ratio Lower Upper
 53 100
 52 28.1 66.0 99.0#
 51 37.3 28.6 42.8





#16

Acetone

Concen: 1.462 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

Instrument :

MSVOA_X

ClientSampleId :

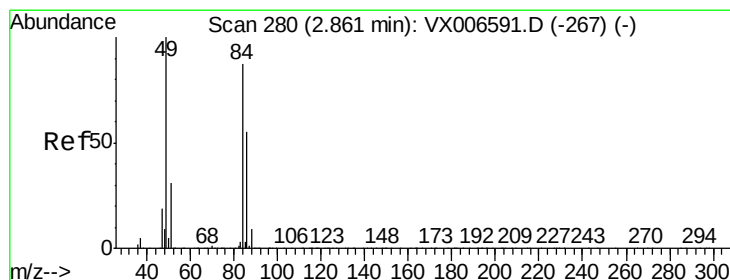
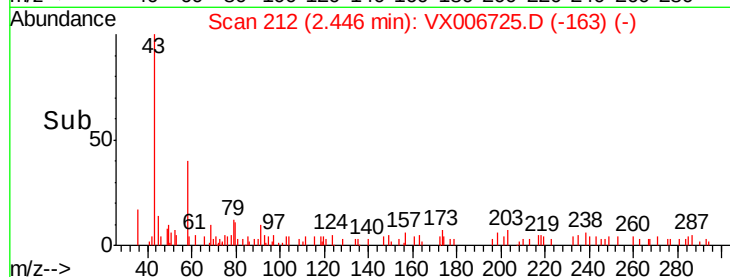
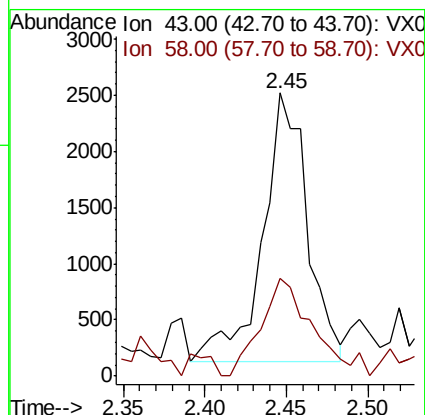
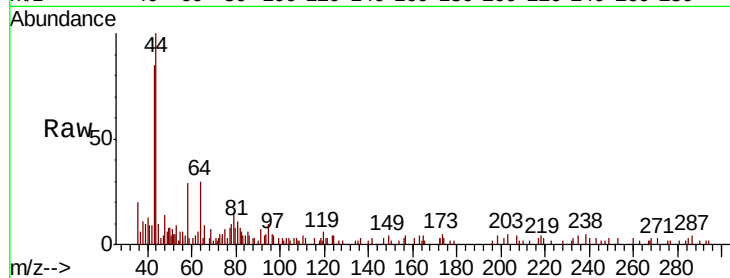
S49-0496DL

Tot Ion: 43 Resp: 4545

Ion Ratio Lower Upper

43 100

58 30.2 25.0 37.6



#20

Methylene Chloride

Concen: 0.323 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

Tgt Ion: 84 Resp: 2075

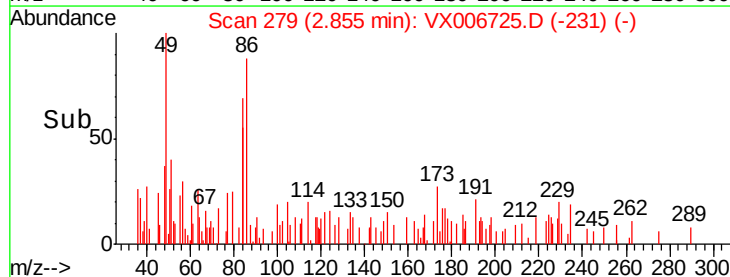
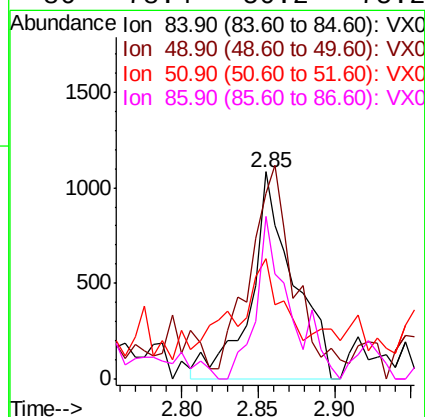
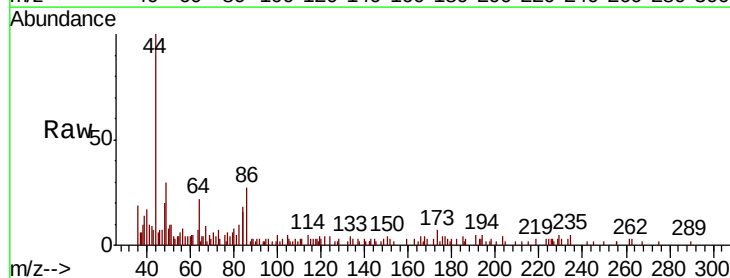
Ion Ratio Lower Upper

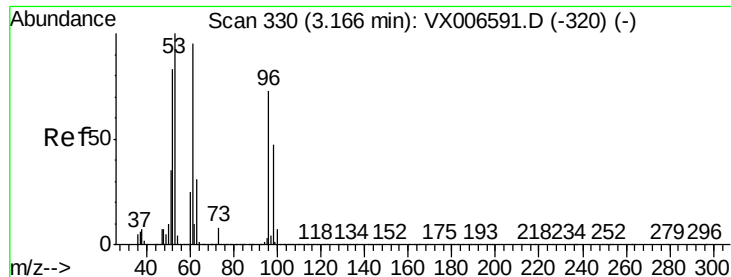
84 100

49 80.1 91.8 137.6#

51 43.4 28.5 42.7#

86 78.4 50.2 75.2#





#21

trans-1,2-Dichloroethene

Concen: 0.284 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

Instrument :

MSVOA_X

ClientSampleId :

S49-0496DL

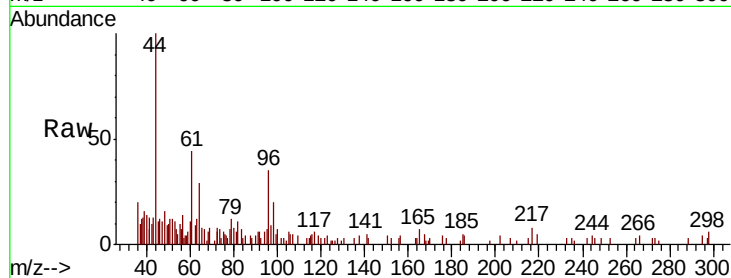
Tot Ion: 96 Resp: 1766

Ion Ratio Lower Upper

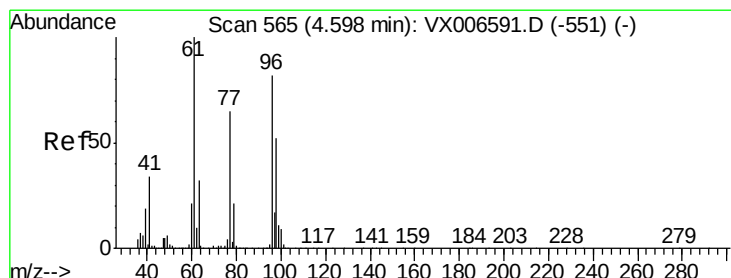
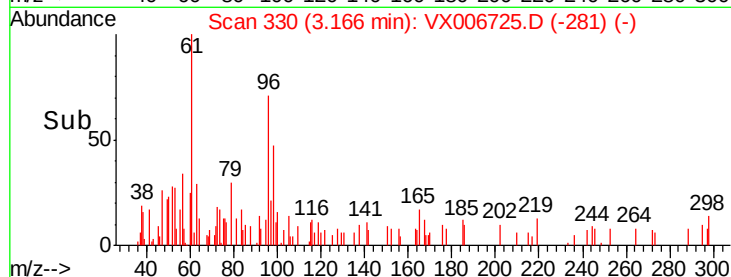
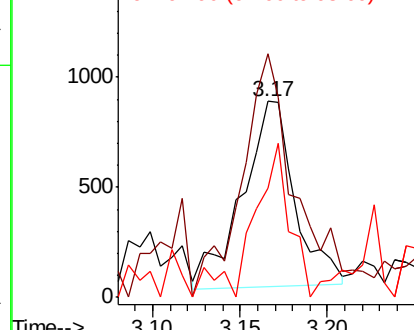
96 100

61 135.0 103.7 155.5

98 60.7 51.0 76.6



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



#27

cis-1,2-Dichloroethene

Concen: 7.835 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

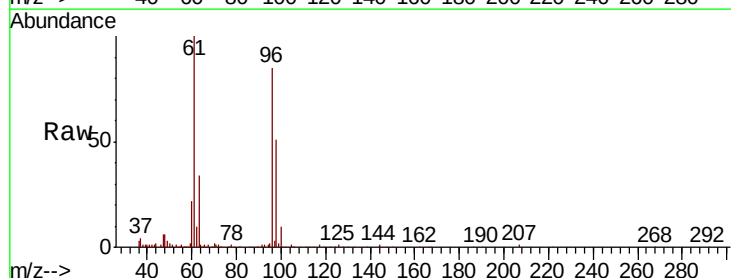
Tgt Ion: 96 Resp: 53734

Ion Ratio Lower Upper

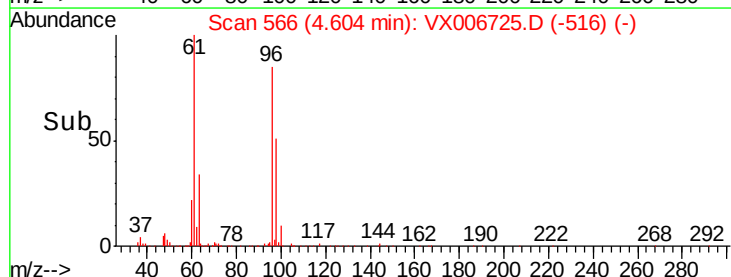
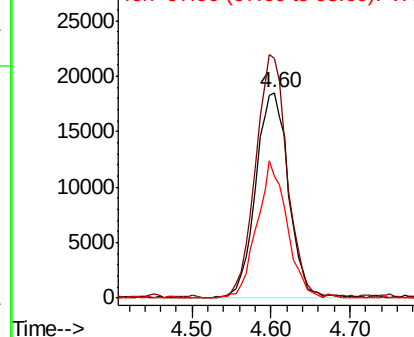
96 100

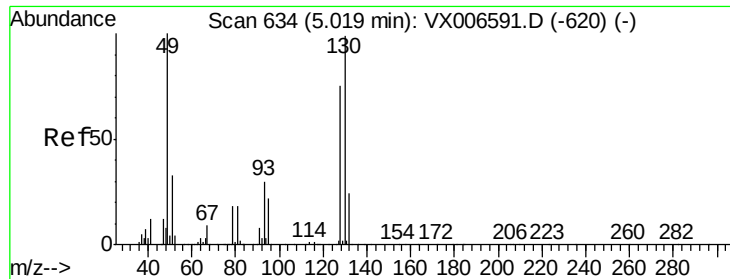
61 113.7 0.0 258.6

98 60.8 0.0 132.0



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





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

Instrument :

MSVOA_X

ClientSampleID :

S49-0496DL

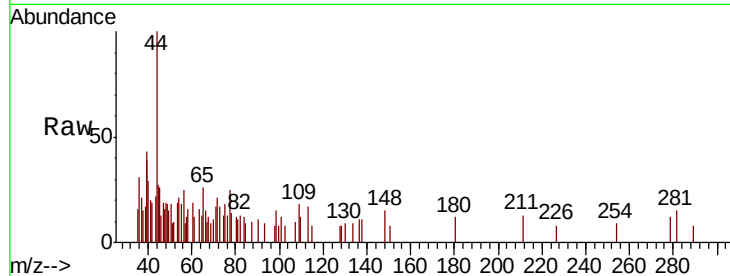
Tot Ion: 49 Resp: 289

Ion Ratio Lower Upper

49 100

129 6.6 0.0 5.4#

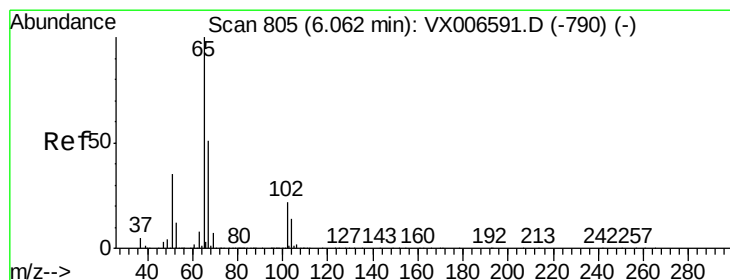
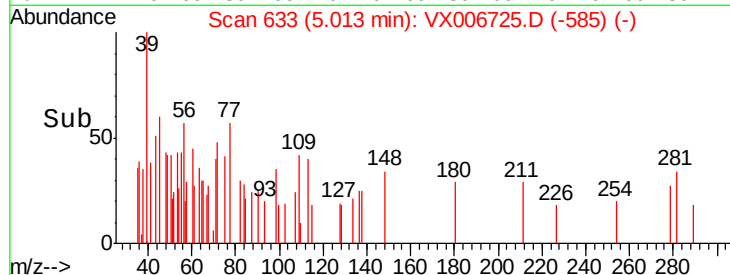
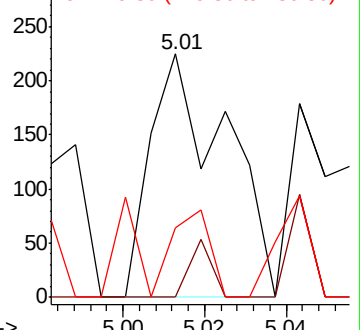
130 18.3 77.7 116.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 49.994 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006725.D

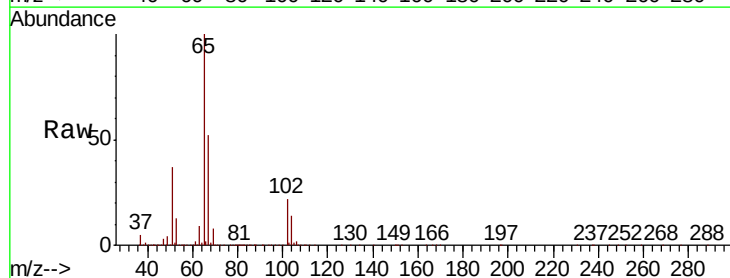
Acq: 21 Dec 2018 15:56

Tgt Ion: 65 Resp: 338312

Ion Ratio Lower Upper

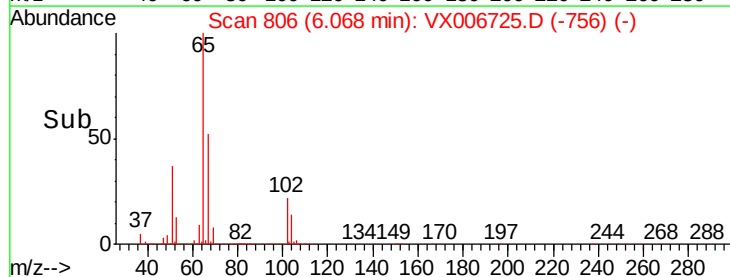
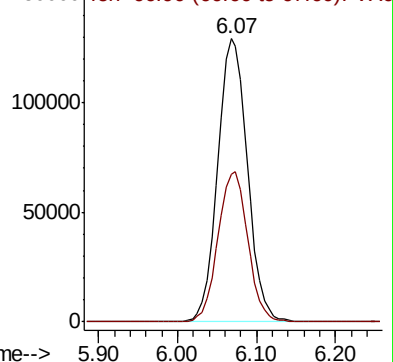
65 100

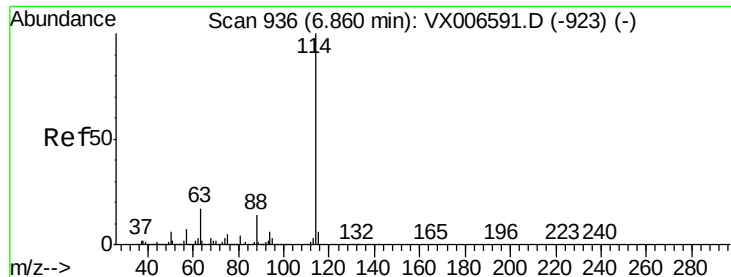
67 53.2 0.0 105.0



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: VX006725.D

Acq: 21 Dec 2018 15:56

Instrument :

MSVOA_X

ClientSampled :

S49-0496DL

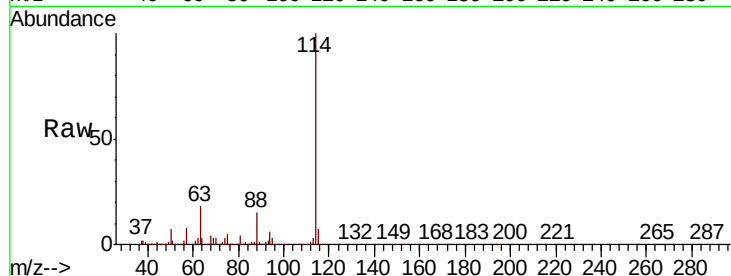
Tot Ion:114 Resp: 984748

Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.8

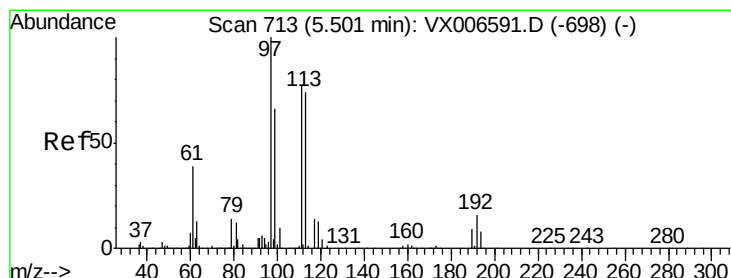
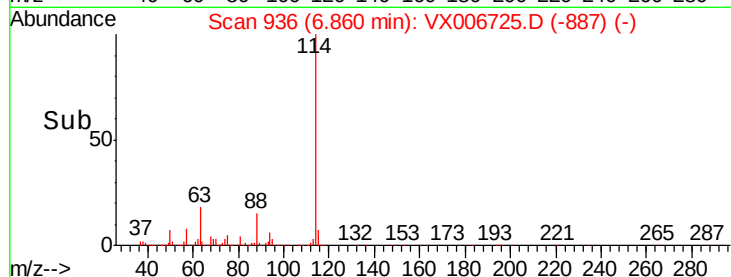
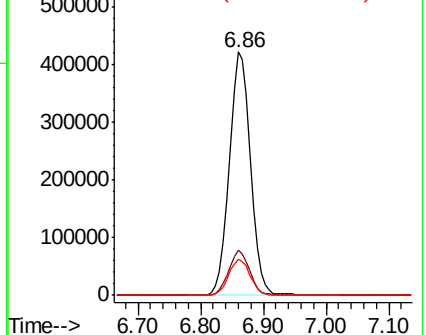
88 15.1 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.309 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

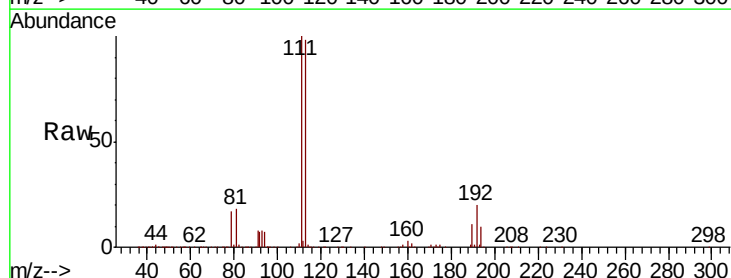
Tgt Ion:113 Resp: 300839

Ion Ratio Lower Upper

113 100

111 102.7 81.6 122.4

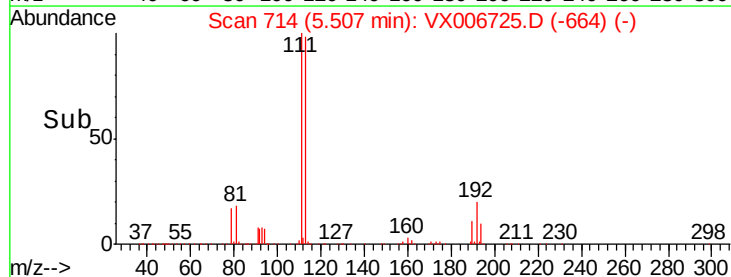
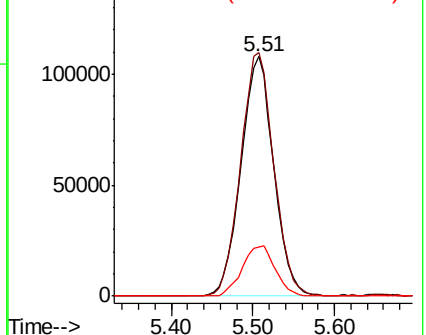
192 21.4 16.7 25.1

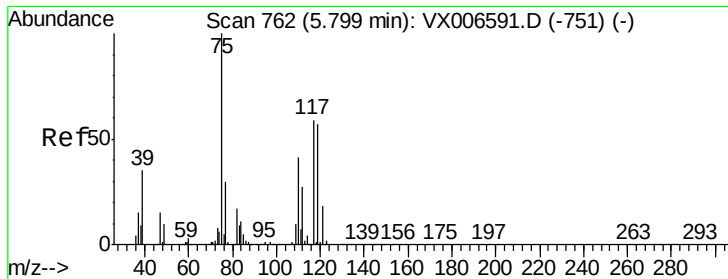


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.861 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

Instrument :

MSVOA_X

ClientSampleID :

S49-0496DL

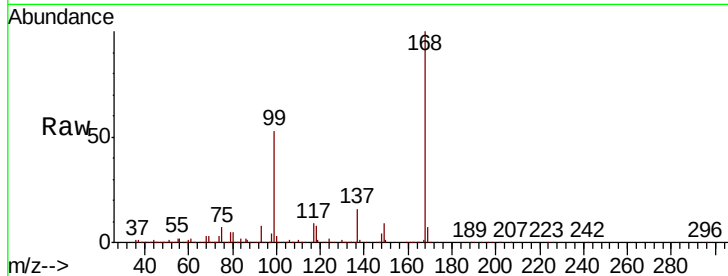
Tot Ion: 75 Resp: 39650

Ion Ratio Lower Upper

75 100

110 10.8 20.2 60.5#

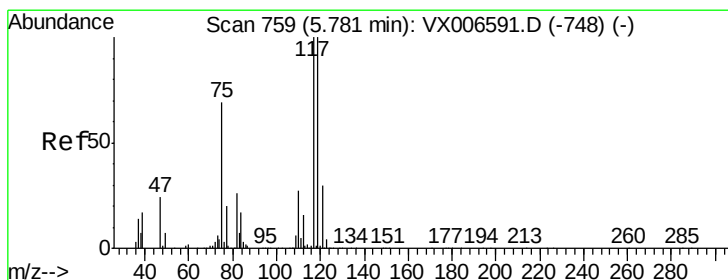
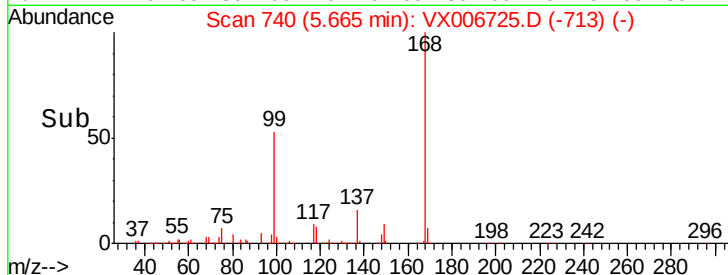
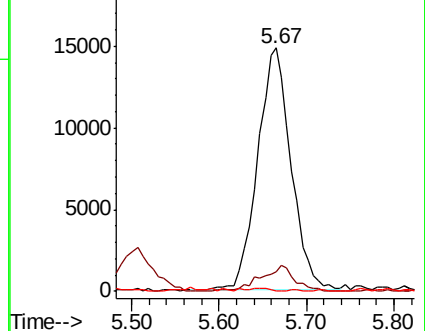
77 0.0 24.8 37.2#



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: 7.369 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

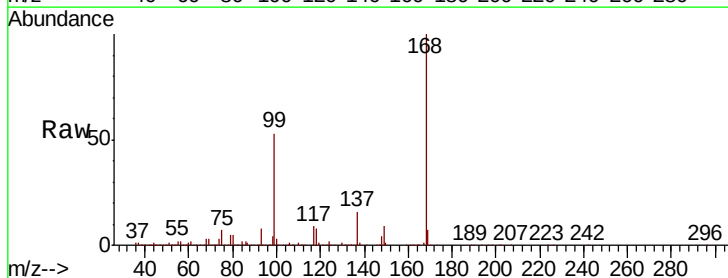
Tgt Ion: 117 Resp: 58412

Ion Ratio Lower Upper

117 100

119 5.6 79.4 119.2#

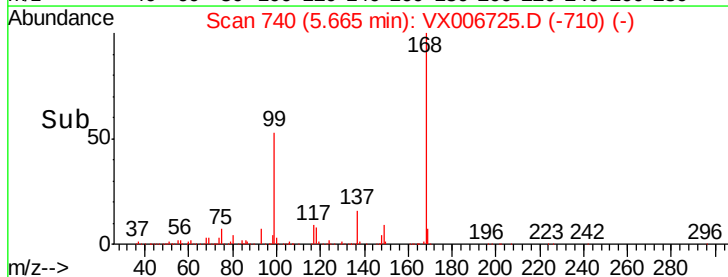
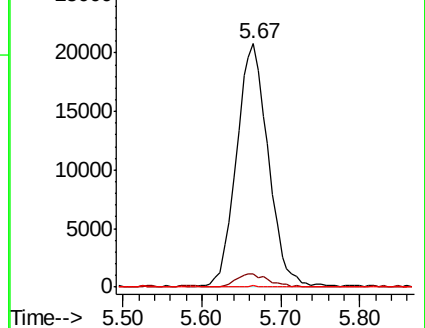
121 0.6 24.0 36.0#

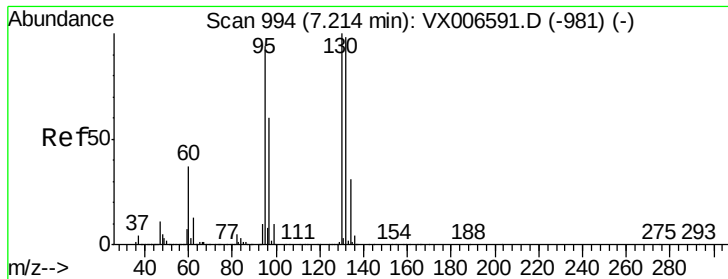


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 23.982 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

Instrument :

MSVOA_X

ClientSampleId :

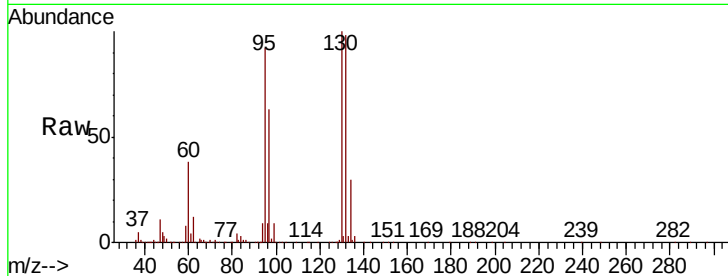
S49-0496DL

Tot Ion:130 Resp: 179955

Ion Ratio Lower Upper

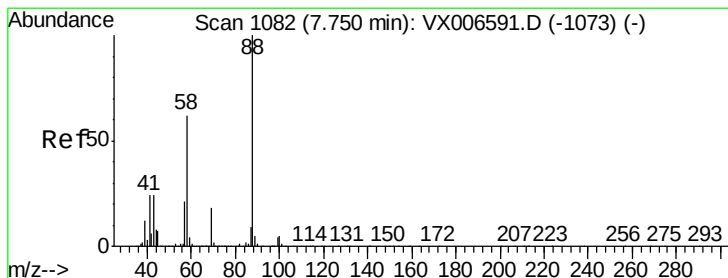
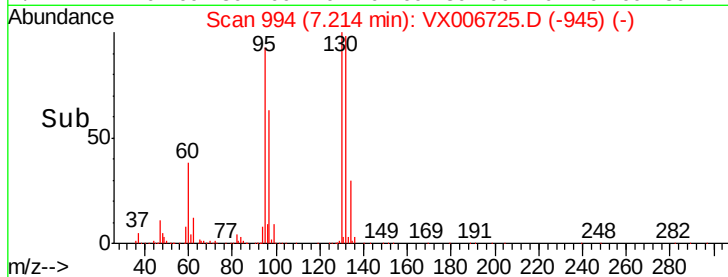
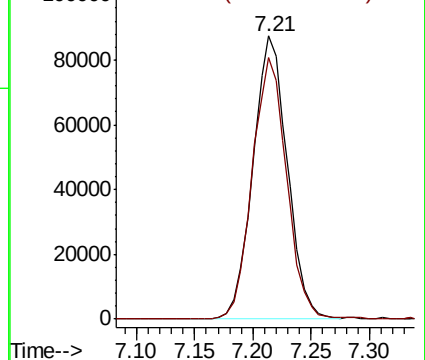
130 100

95 92.5 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

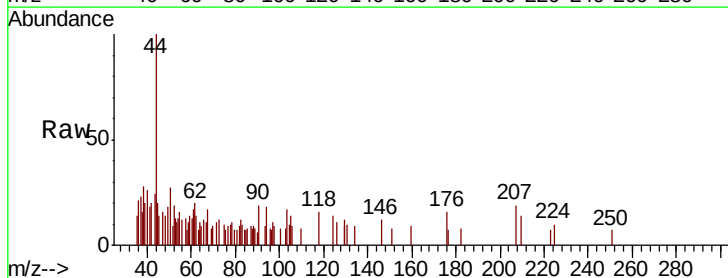
Tgt Ion: 88 Resp: 117

Ion Ratio Lower Upper

88 100

43 59.0 22.2 33.4#

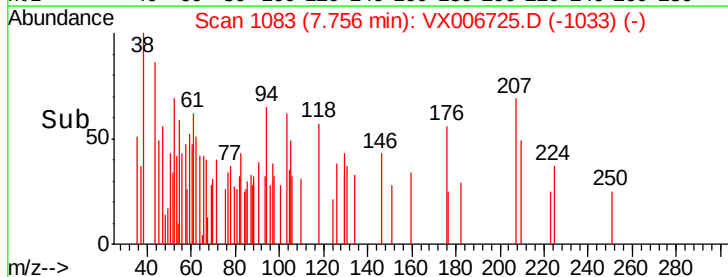
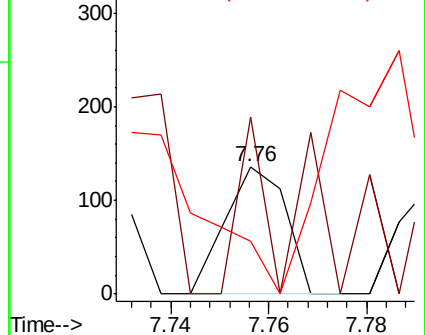
58 0.0 51.0 76.4#

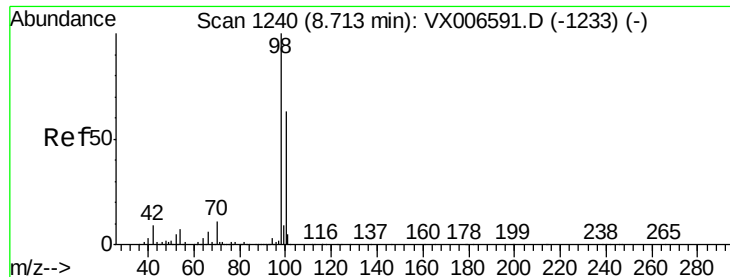


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.731 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

Instrument :

MSVOA_X

ClientSampled :

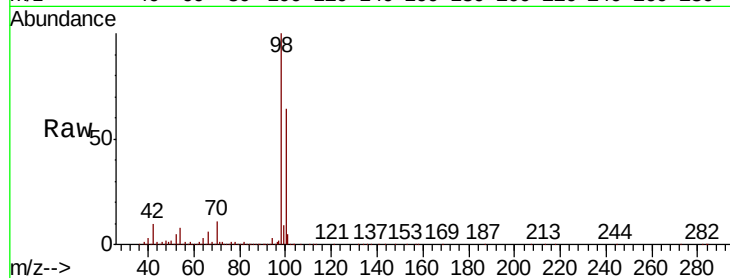
S49-0496DL

Tot Ion: 98 Resp: 1144073

Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

800000

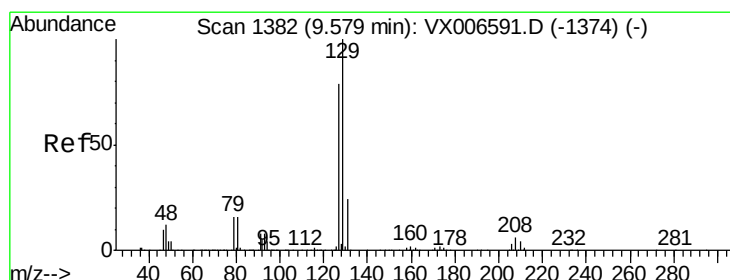
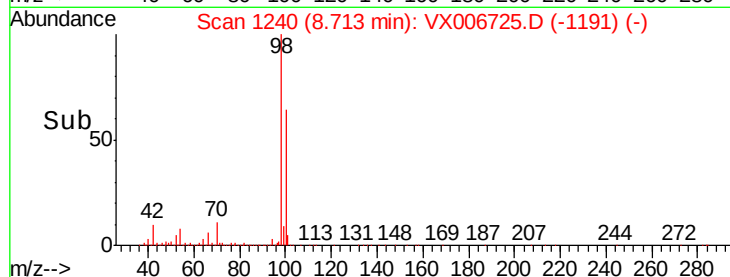
600000

400000

200000

0

Time-->



#60

Dibromochloromethane

Concen: 2.332 ug/l

RT: 9.63 min Scan# 1390

Delta R.T. 0.05 min

Lab File: VX006725.D

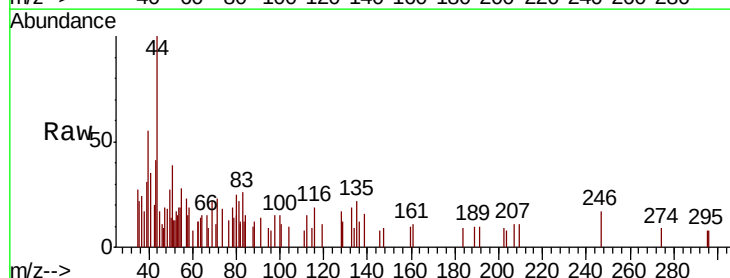
Acq: 21 Dec 2018 15:56

Tgt Ion:129 Resp: 54

Ion Ratio Lower Upper

129 100

127 116.7 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.63

120

100

80

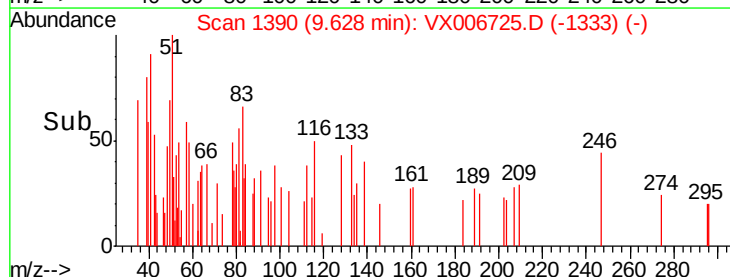
60

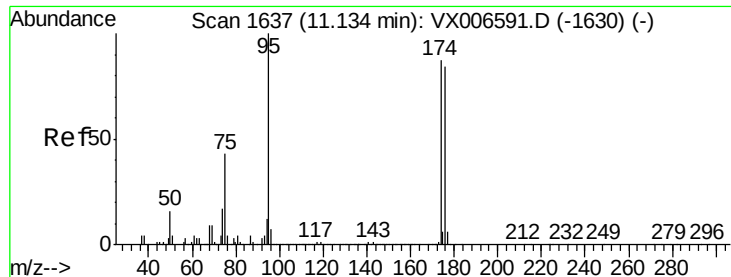
40

20

0

Time-->

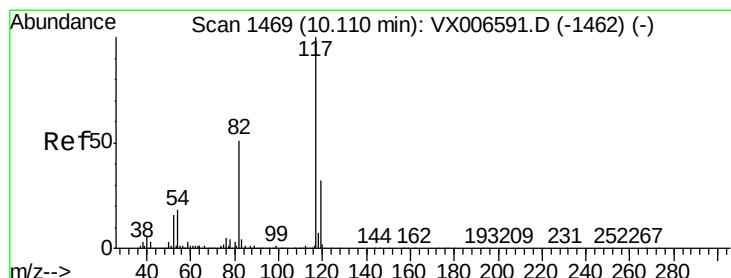
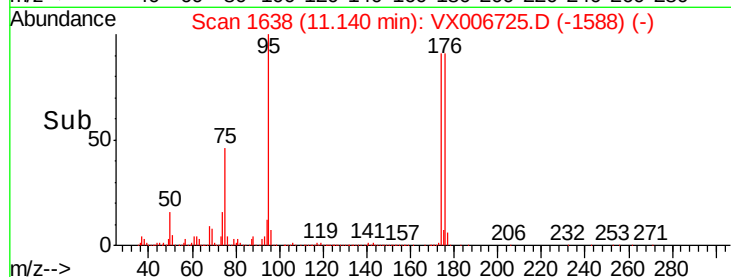
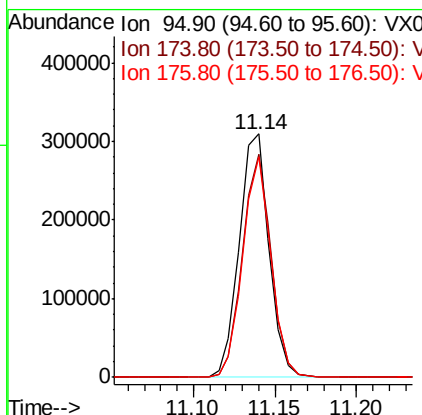
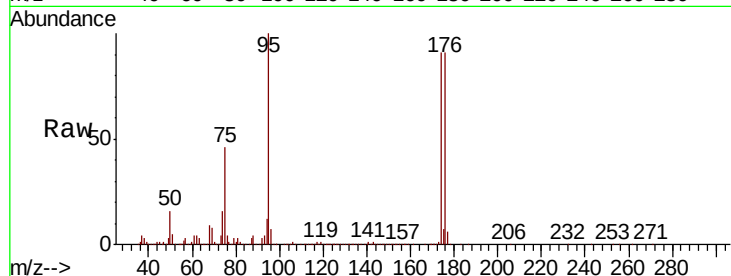




#62
4-Bromofluorobenzene
Concen: 46.000 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.01 min
Lab File: VX006725.D
Acq: 21 Dec 2018 15:56

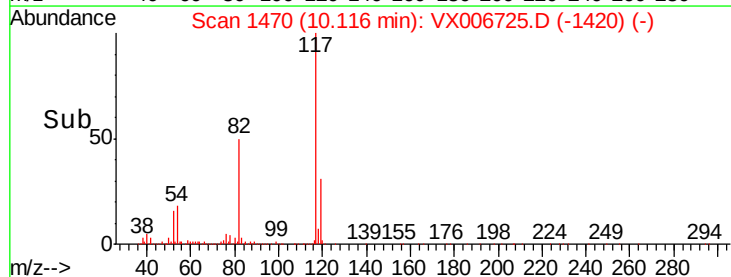
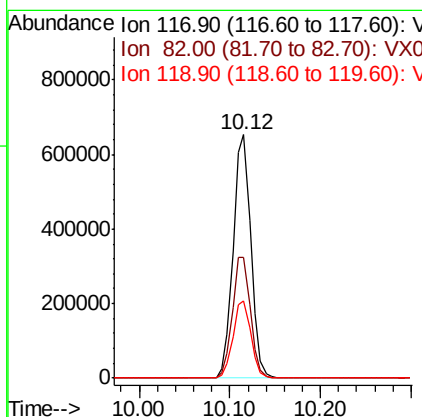
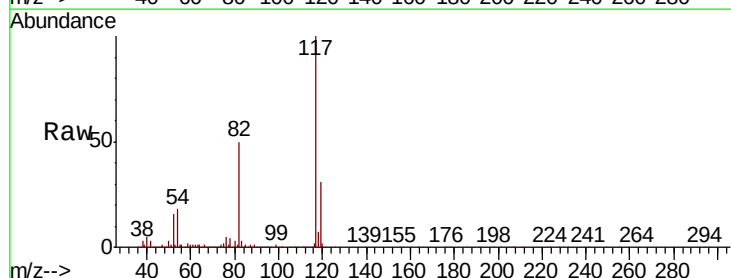
Instrument :
MSVOA_X
ClientSampleId :
S49-0496DL

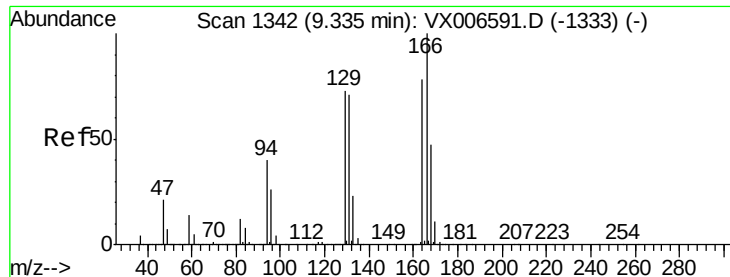
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.3	0.0	182.2
176	86.2	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006725.D
Acq: 21 Dec 2018 15:56

Tgt Ion	Ratio	Lower	Upper
117	100		
82	49.7	41.0	61.6
119	31.5	25.4	38.0





#64

Tetrachloroethene

Concen: 0.220 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

Instrument :

MSVOA_X

ClientSampled :

S49-0496DL

Tot Ion:164 Resp: 1541

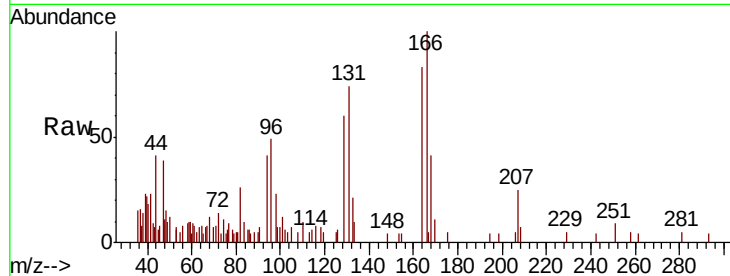
Ion Ratio Lower Upper

164 100

166 120.6 102.5 153.7

129 72.5 75.1 112.7#

131 89.2 72.7 109.1



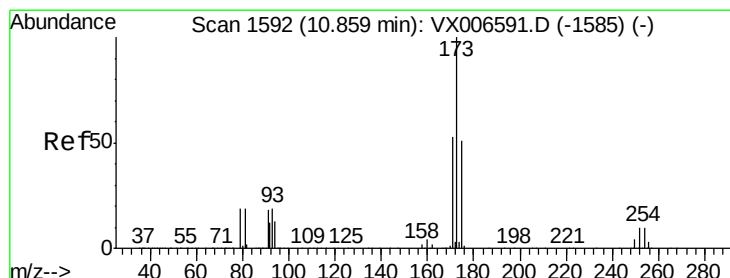
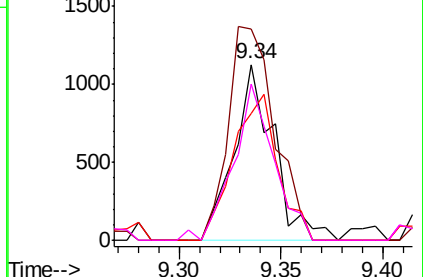
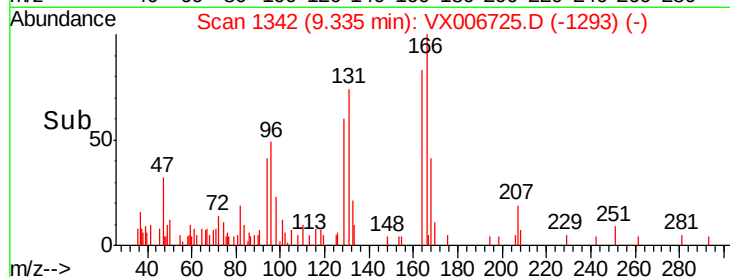
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

Time-->



#71

Bromoform

Concen: 4.492 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. -0.01 min

Lab File: VX006725.D

Acq: 21 Dec 2018 15:56

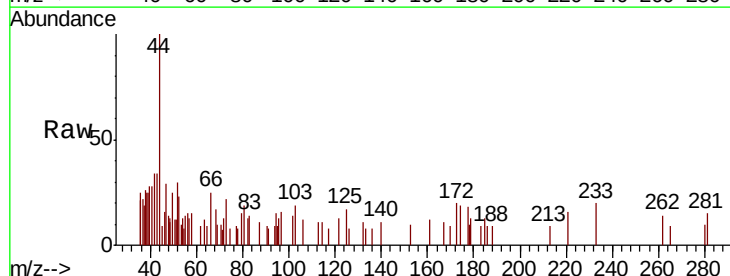
Tgt Ion:173 Resp: 183

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

254 0.0 0.2 0.2#

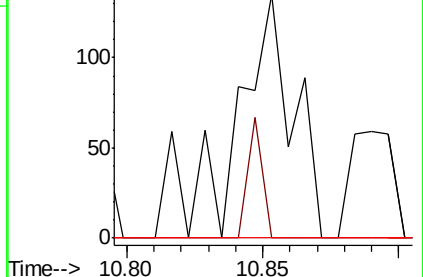
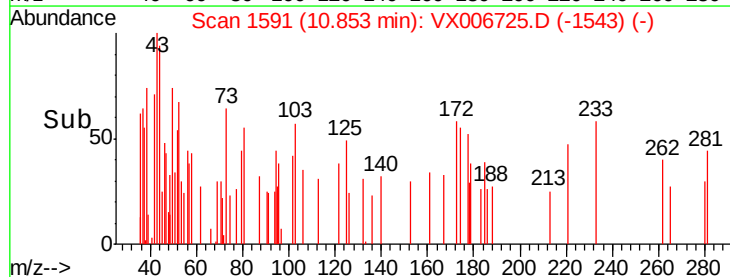


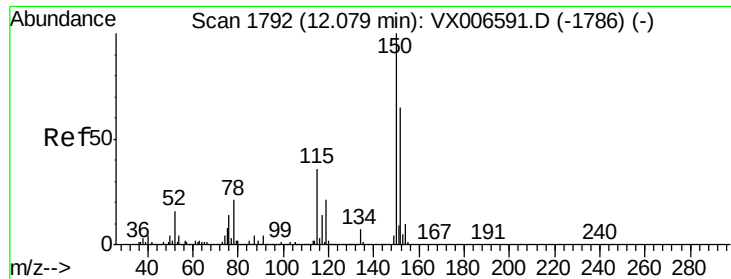
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

Time-->



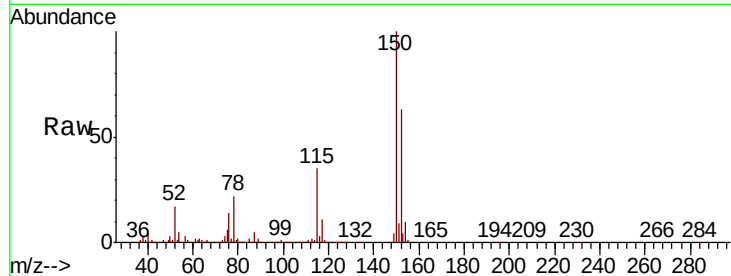


#72

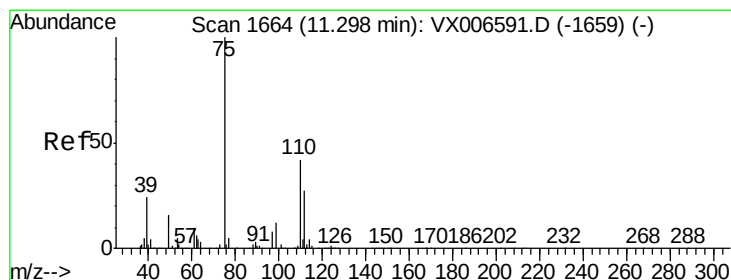
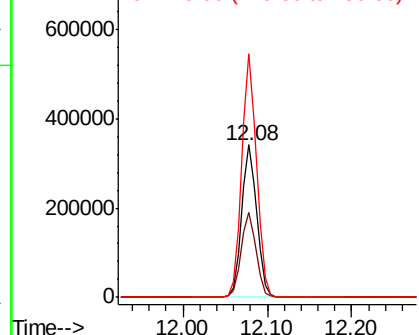
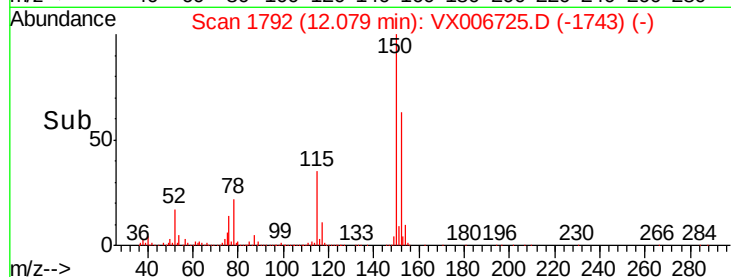
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006725.D
Acq: 21 Dec 2018 15:56

Instrument :
MSVOA_X
ClientSampled :
S49-0496DL

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.7	39.1	117.2
150	157.8	0.0	344.8



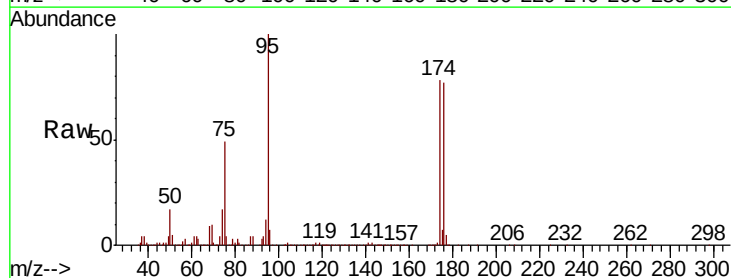
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



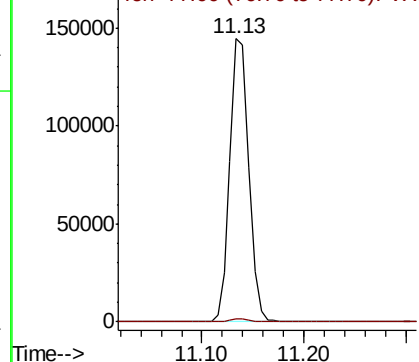
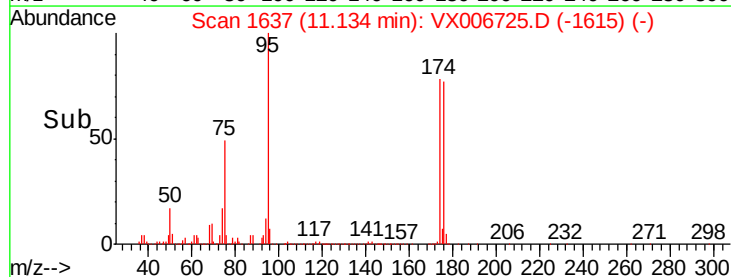
#76

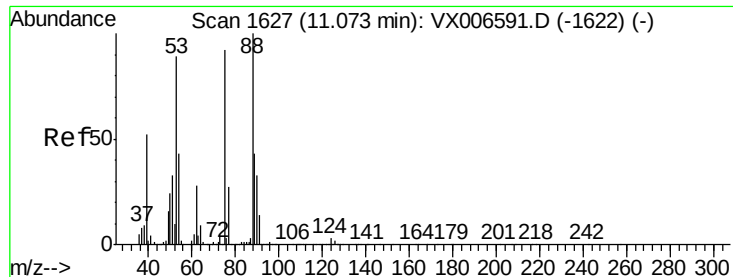
1,2,3-Trichloropropane
Concen: 24.707 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006725.D
Acq: 21 Dec 2018 15:56

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	18.5	55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0

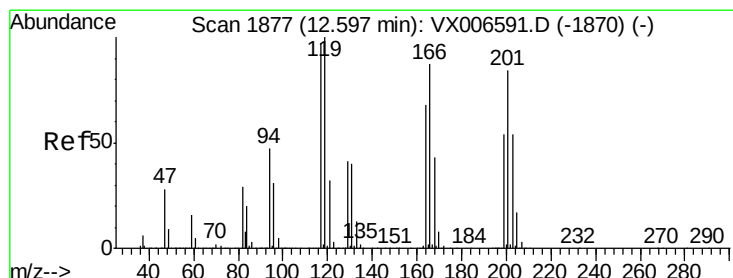
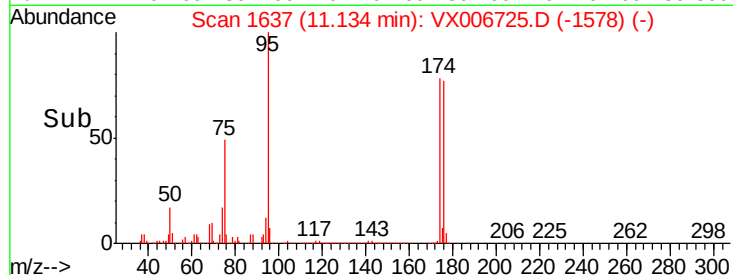
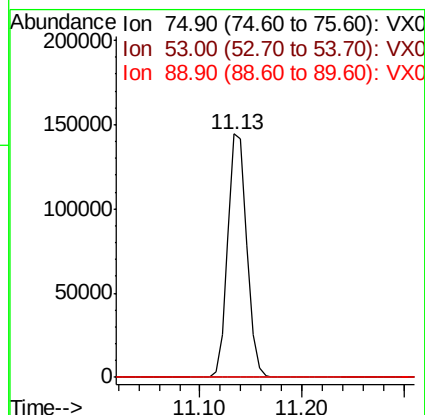
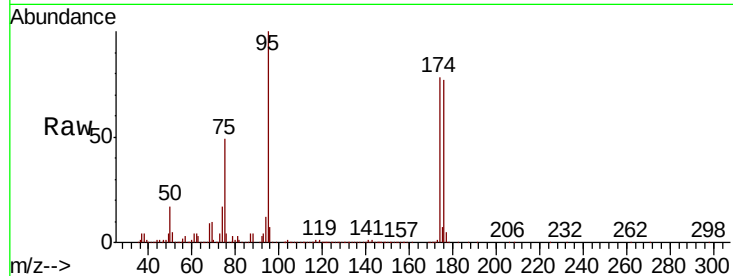




#81
trans-1,4-Dichloro-2-butene
Concen: 73.057 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006725.D
Acq: 21 Dec 2018 15:56

Instrument :
MSVOA_X
ClientSampleId :
S49-0496DL

Tot Ion: 75 Resp: 187165
Ion Ratio Lower Upper
75 100
53 0.0 79.7 119.5#
89 0.0 38.0 57.0#



#90
Hexachloroethane
Concen: 3.309 ug/l
RT: 12.80 min Scan# 1910
Delta R.T. 0.20 min
Lab File: VX006725.D
Acq: 21 Dec 2018 15:56

Tgt Ion: 117 Resp: 66
Ion Ratio Lower Upper
117 100
201 65.2 42.9 128.7

