

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030819\
 Data File : VX007944.D
 Acq On : 08 Mar 2019 21:22
 Operator : JC/SP
 Sample : K1793-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D3-20190306

Quant Time: Mar 09 03:54:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 07:33:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	269820	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	425988	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	398609	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190324	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	150489	52.87	ug/l	0.00
Spiked Amount			Recovery	=	105.74%	
35) Dibromofluoromethane	5.50	113	137772	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
50) Toluene-d8	8.71	98	514622	51.42	ug/l	0.00
Spiked Amount			Recovery	=	102.84%	
62) 4-Bromofluorobenzene	11.13	95	187582	53.46	ug/l	0.00
Spiked Amount			Recovery	=	106.92%	

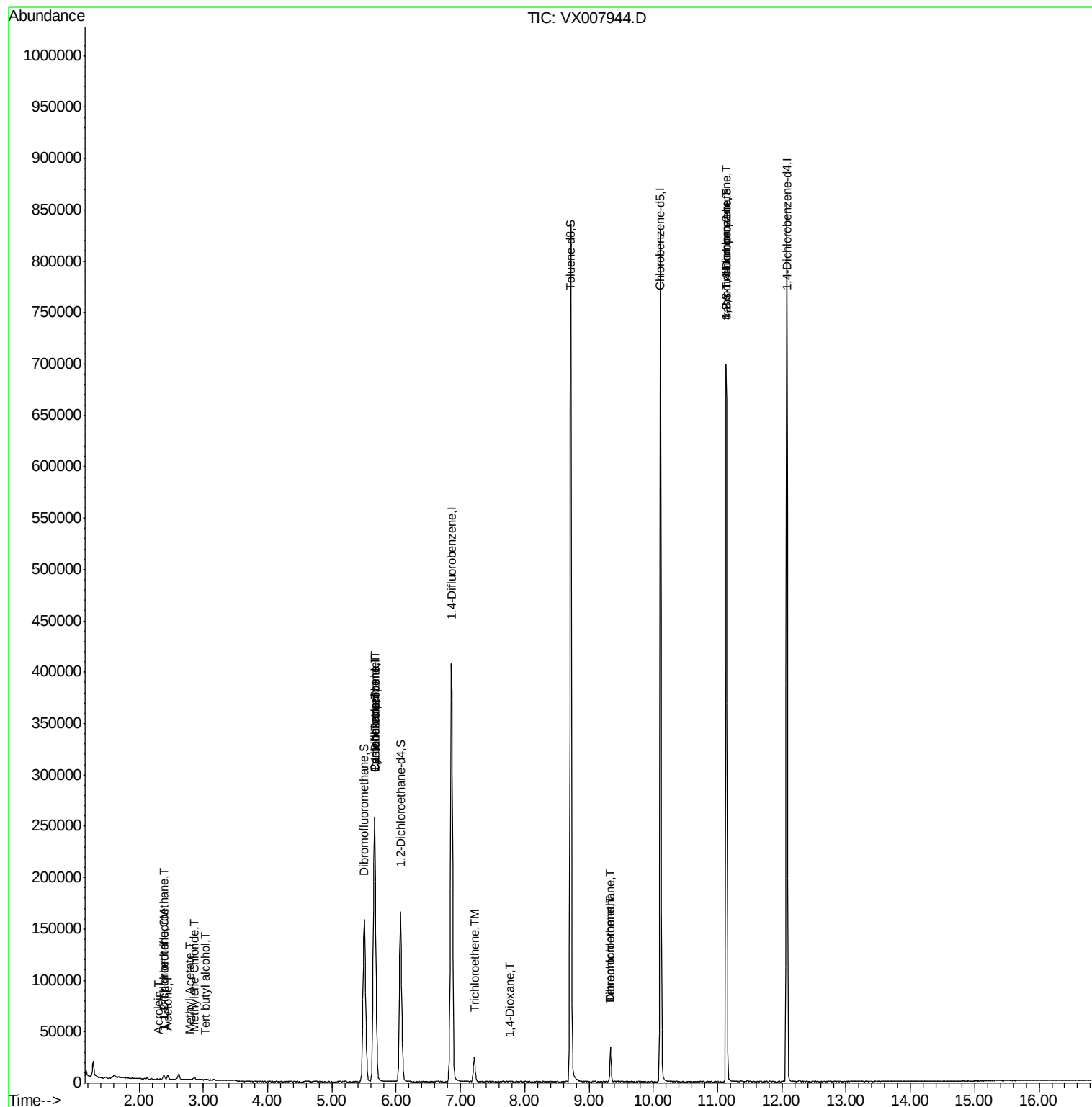
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	120	Below Cal		83
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1044	0.438	ug/l	91
11) Tert butyl alcohol	3.03	59	315	0.495	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	557	0.243	ug/l	90
13) Acrolein	2.29	56	19	1.594	ug/l #	1
16) Acetone	2.45	43	4549	2.761	ug/l #	85
17) Carbon Disulfide	2.57	76	802	Below Cal	#	74
18) Methyl Acetate	2.78	43	870	0.249	ug/l	97
20) Methylene Chloride	2.86	84	801	0.305	ug/l	95
31) Cyclohexane	5.66	56	4394	1.005	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16862	4.372	ug/l #	48
38) Carbon Tetrachloride	5.67	117	23543	6.429	ug/l #	18
44) Trichloroethene	7.21	130	9366	2.960	ug/l	91
49) 1,4-Dioxane	7.76	88	77	1.052	ug/l #	1
60) Dibromochloromethane	9.34	129	6173	2.081	ug/l #	11
64) Tetrachloroethene	9.34	164	7132	2.159	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	86584	21.680	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	86584	69.299	ug/l #	11

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007944.D

Acq: 08 Mar 2019 21:22

Instrument :

MSVOA_X

ClientSampleId :

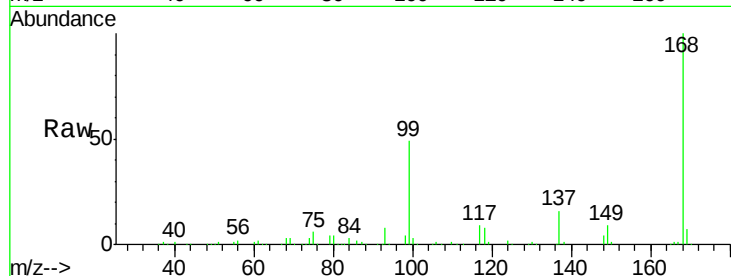
RE126D3-20190306

Tot Ion:168 Resp: 269820

Ion Ratio Lower Upper

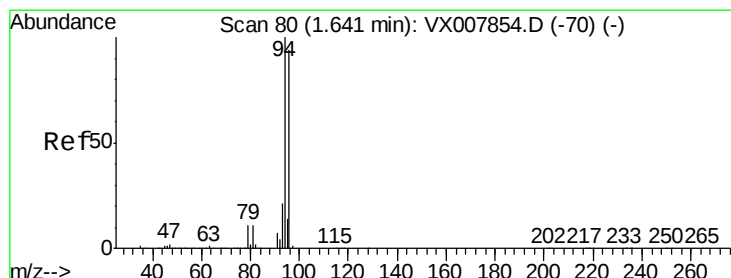
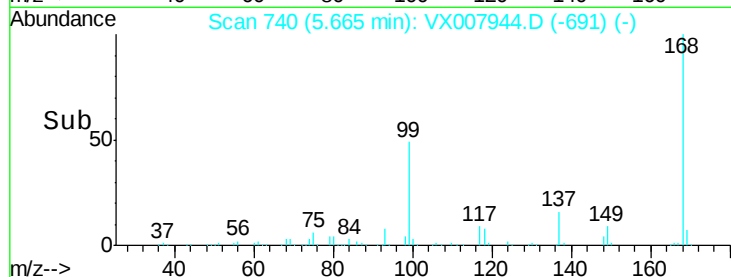
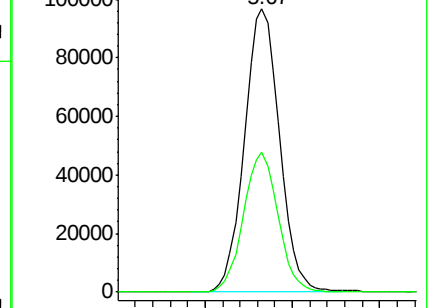
168 100

99 49.5 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007944.D

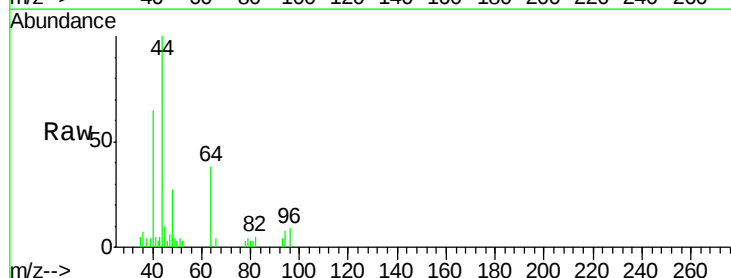
Acq: 08 Mar 2019 21:22

Tgt Ion: 94 Resp: 120

Ion Ratio Lower Upper

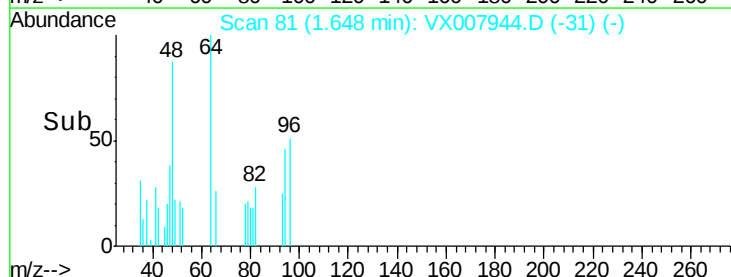
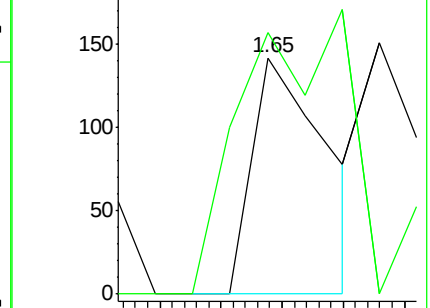
94 100

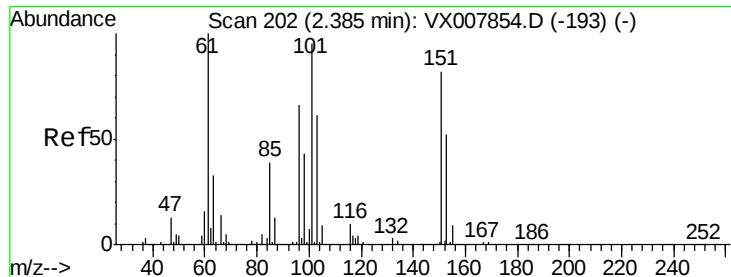
96 110.6 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.438 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.00 min

Lab File: VX007944.D

Acq: 08 Mar 2019 21:22

Instrument :

MSVOA_X

ClientSampleId :

RE126D3-20190306

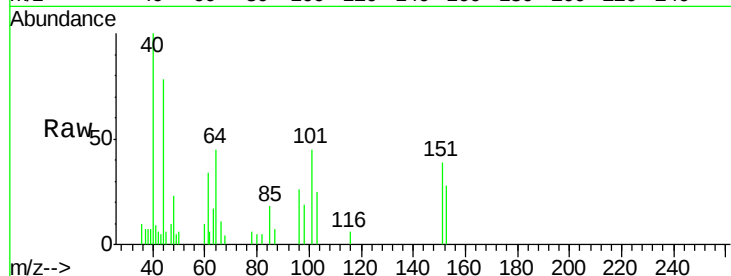
Tot Ion:101 Resp: 1044

Ion Ratio Lower Upper

101 100

85 50.6 33.8 50.6

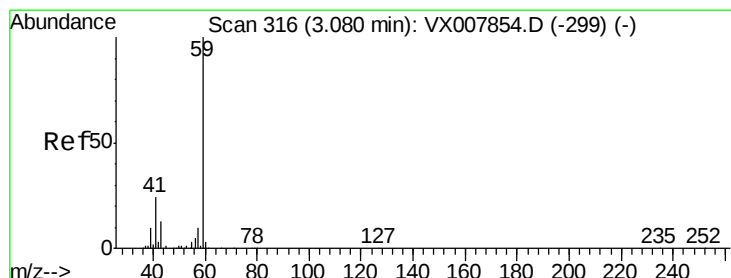
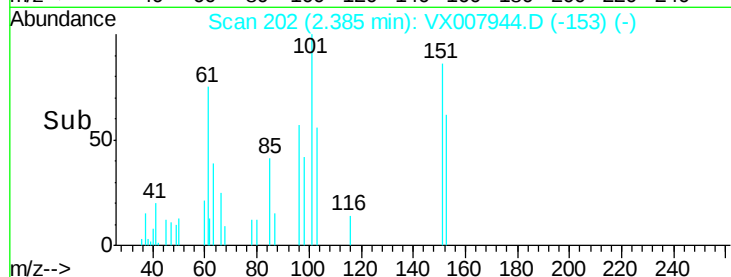
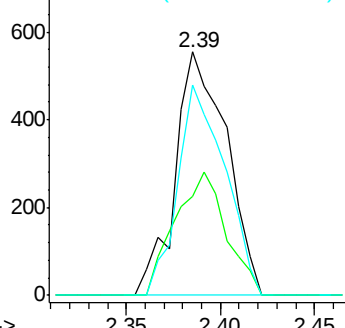
151 79.7 69.1 103.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.495 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.05 min

Lab File: VX007944.D

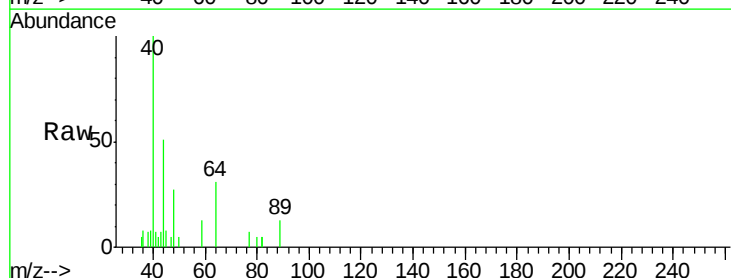
Acq: 08 Mar 2019 21:22

Tgt Ion: 59 Resp: 315

Ion Ratio Lower Upper

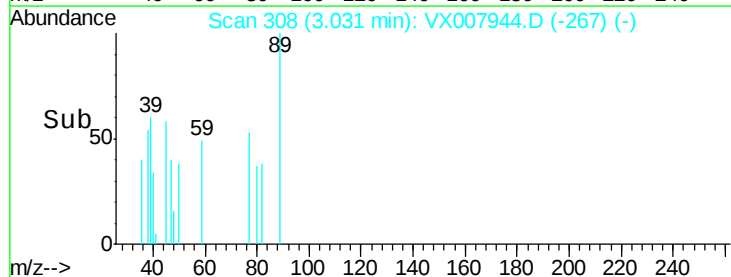
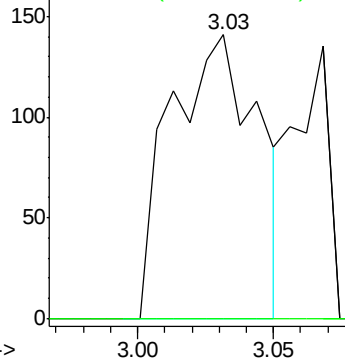
59 100

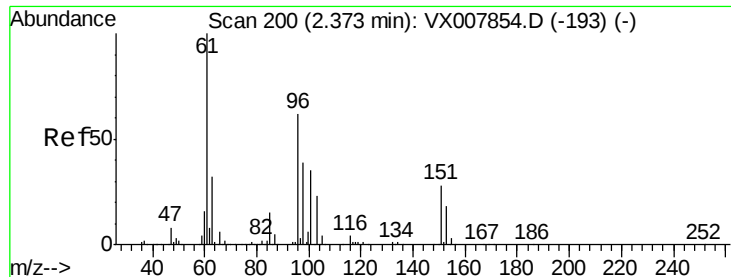
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.243 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX007944.D

Acq: 08 Mar 2019 21:22

Instrument :

MSVOA_X

ClientSampleId :

RE126D3-20190306

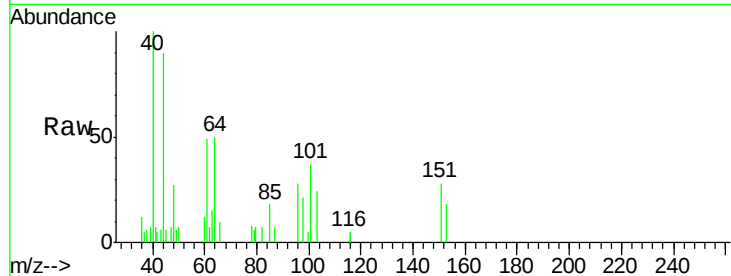
Tot Ion: 96 Resp: 557

Ion Ratio Lower Upper

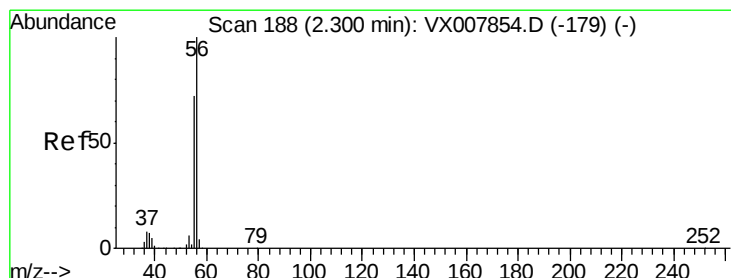
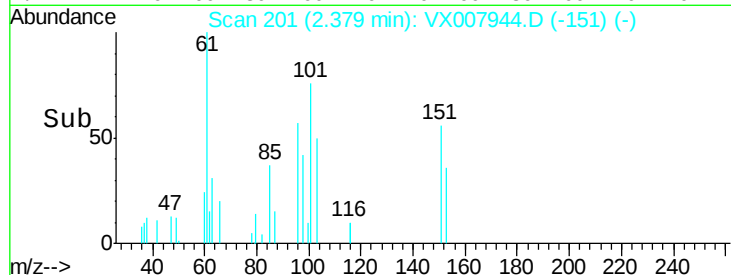
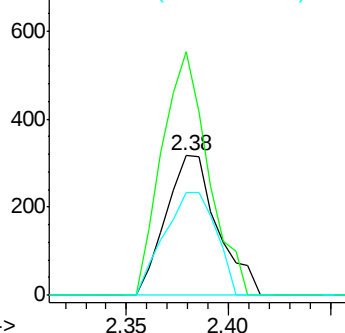
96 100

61 174.4 129.8 194.6

98 73.5 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



#13

Acrolein

Concen: 1.594 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX007944.D

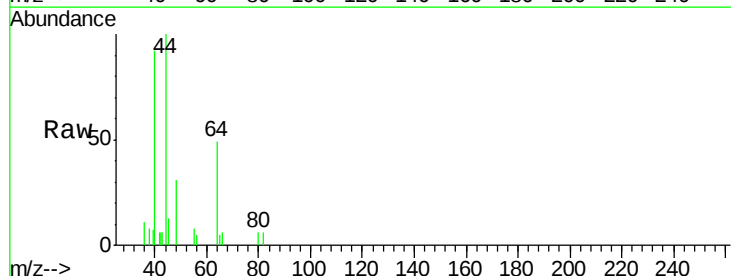
Acq: 08 Mar 2019 21:22

Tgt Ion: 56 Resp: 19

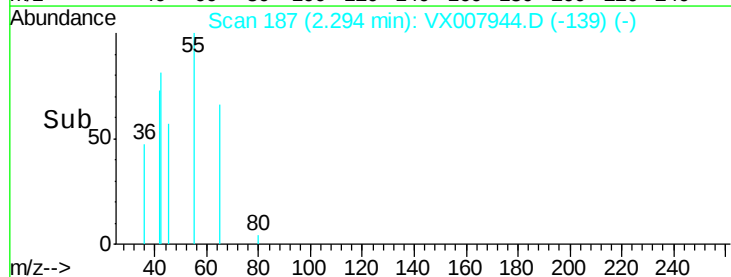
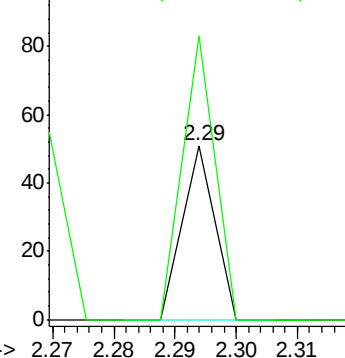
Ion Ratio Lower Upper

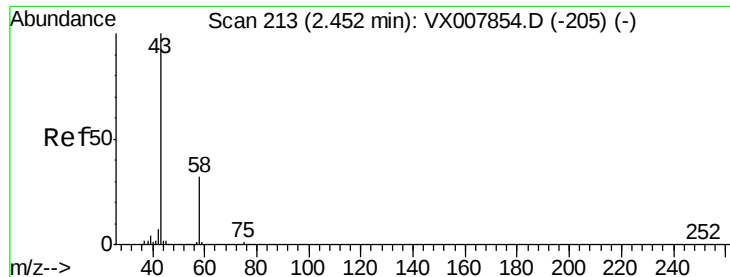
56 100

55 157.9 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.761 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX007944.D

Acq: 08 Mar 2019 21:22

Instrument :

MSVOA_X

ClientSampleId :

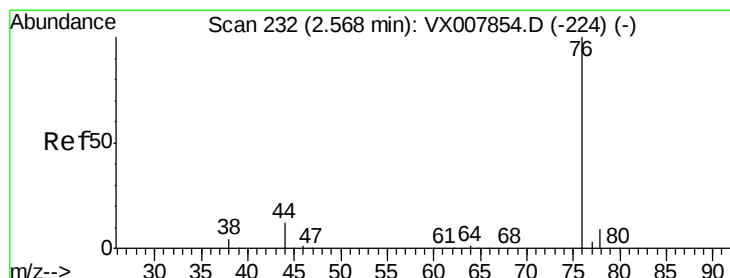
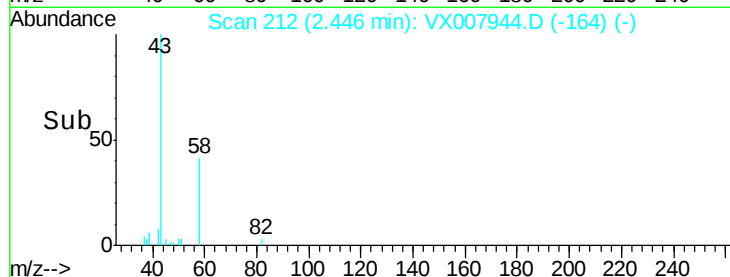
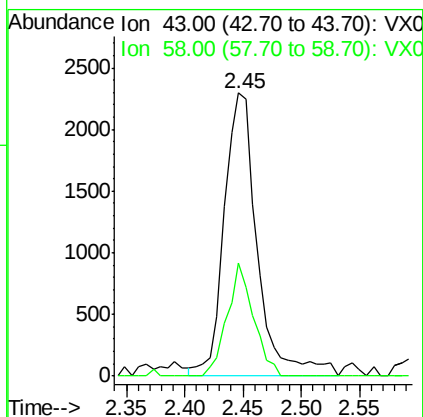
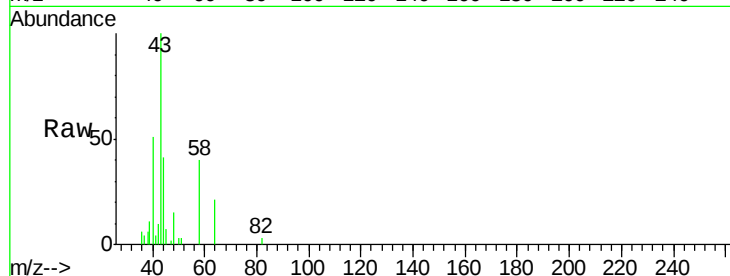
RE126D3-20190306

Tot Ion: 43 Resp: 4549

Ion Ratio Lower Upper

43 100

58 40.2 25.5 38.3#



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX007944.D

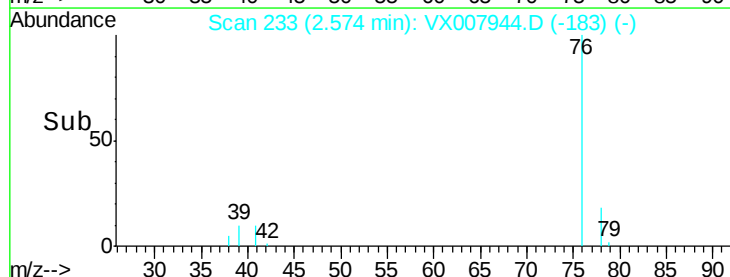
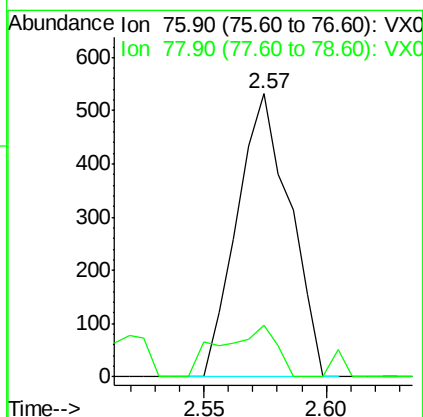
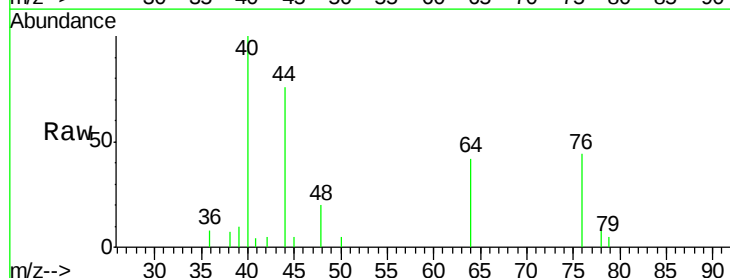
Acq: 08 Mar 2019 21:22

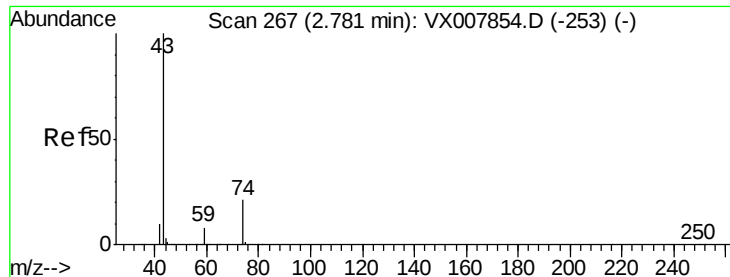
Tgt Ion: 76 Resp: 802

Ion Ratio Lower Upper

76 100

78 18.4 7.2 10.8#

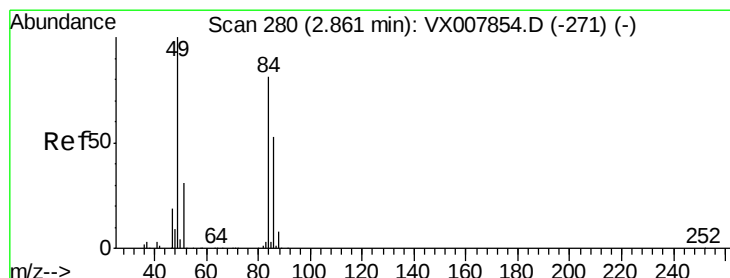
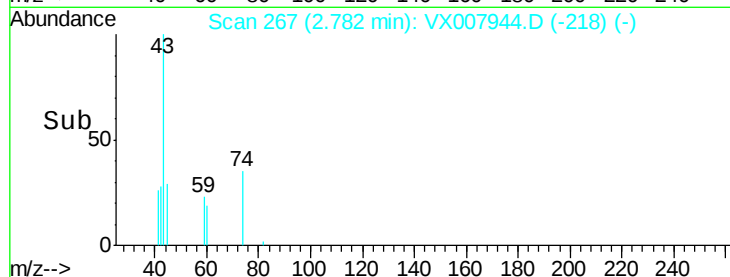
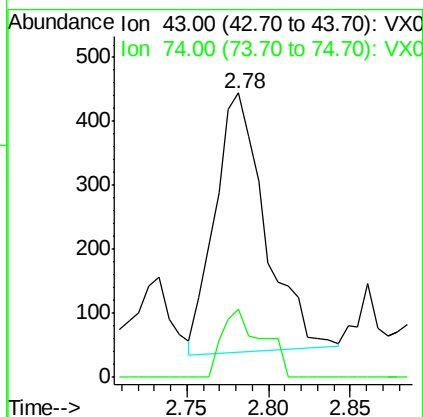
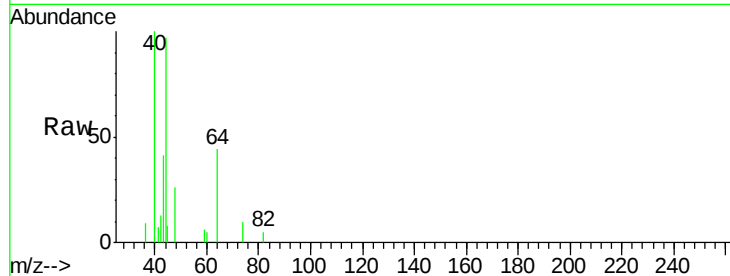




#18
Methyl Acetate
Concen: 0.249 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007944.D
Acq: 08 Mar 2019 21:22

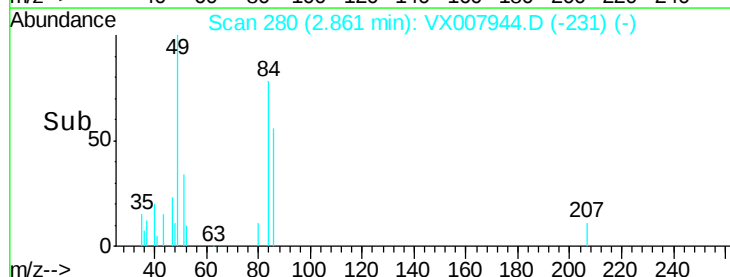
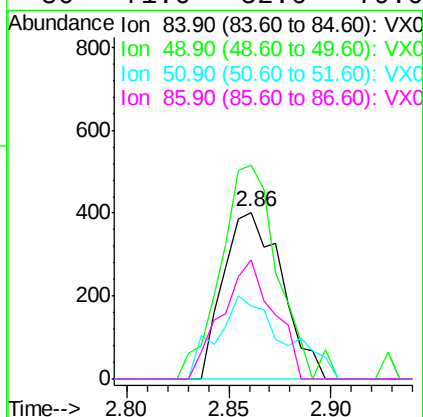
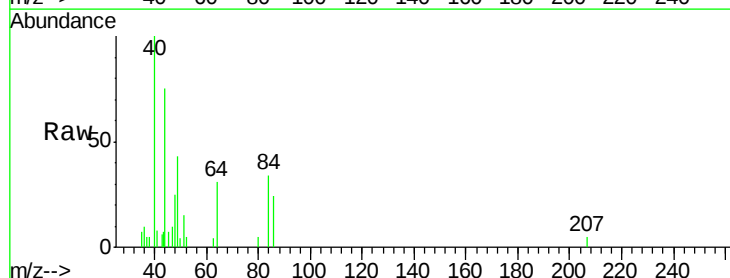
Instrument :
MSVOA_X
ClientSampleId :
RE126D3-20190306

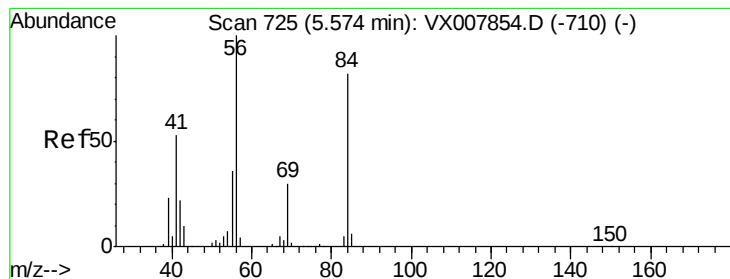
Tot Ion: 43 Resp: 870
Ion Ratio Lower Upper
43 100
74 20.8 17.8 26.6



#20
Methylene Chloride
Concen: 0.305 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007944.D
Acq: 08 Mar 2019 21:22

Tgt Ion: 84 Resp: 801
Ion Ratio Lower Upper
84 100
49 128.1 99.3 148.9
51 44.0 31.3 46.9
86 71.6 52.6 79.0





#31

Cyclohexane

Concen: 1.005 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX007944.D

Acq: 08 Mar 2019 21:22

Instrument :

MSVOA_X

ClientSampleId :

RE126D3-20190306

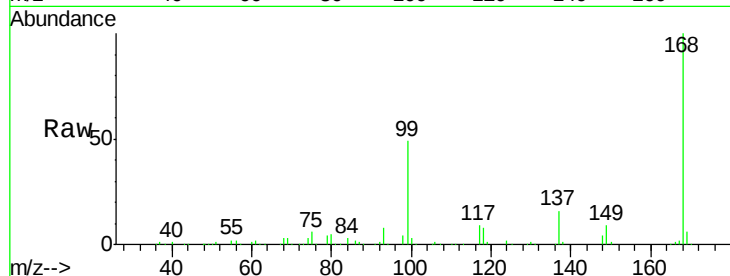
Tot Ion: 56 Resp: 4394

Ion Ratio Lower Upper

56 100

69 186.5 24.0 36.0#

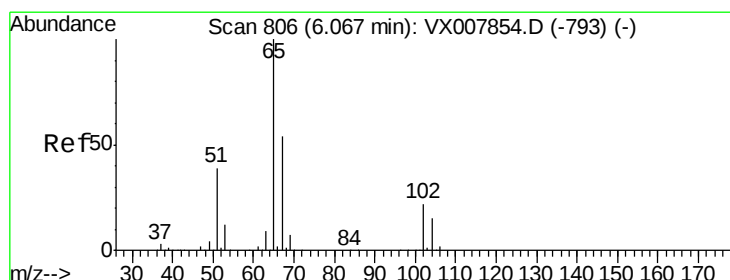
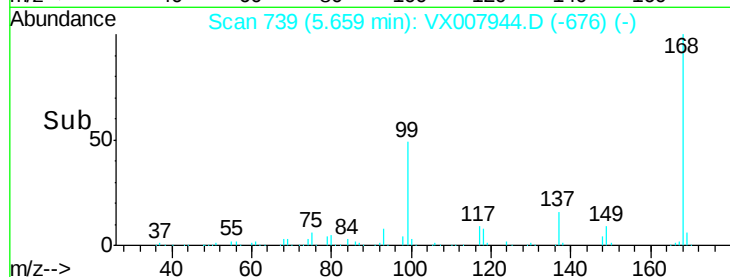
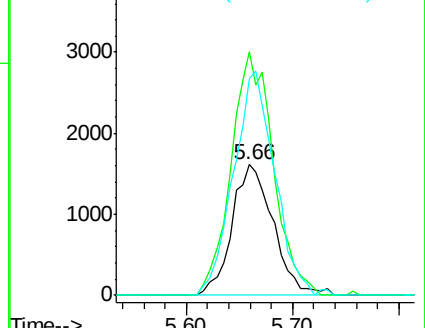
84 165.6 65.3 97.9#



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: 52.871 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007944.D

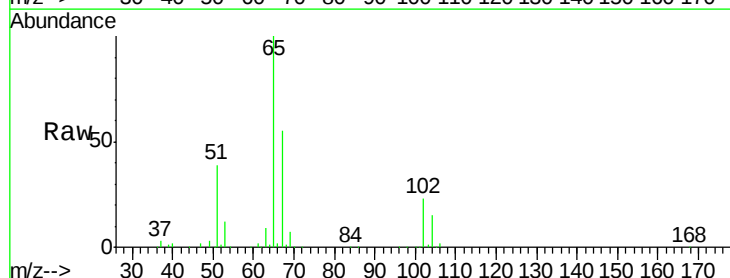
Acq: 08 Mar 2019 21:22

Tgt Ion: 65 Resp: 150489

Ion Ratio Lower Upper

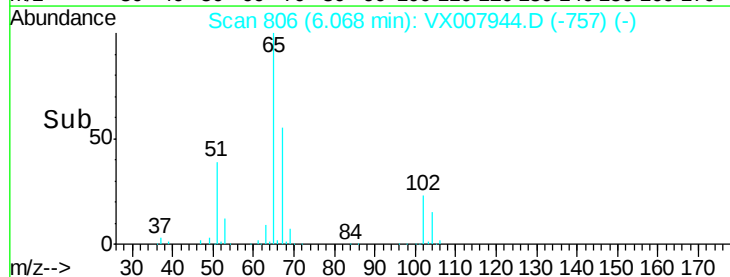
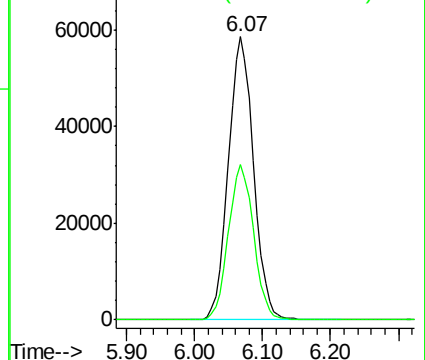
65 100

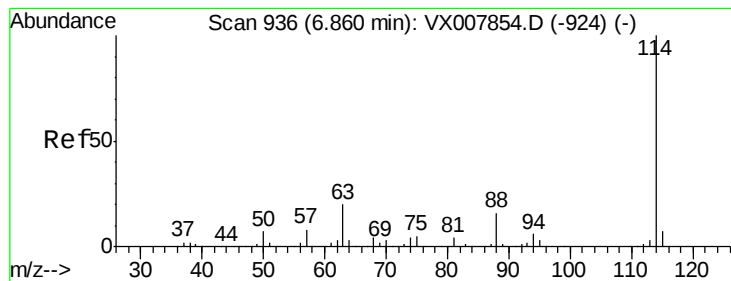
67 54.9 0.0 110.0



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: VX007944.D

Acq: 08 Mar 2019 21:22

Instrument :

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RE126D3-20190306

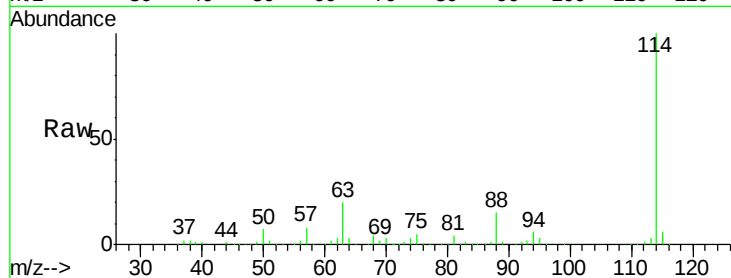
Tot Ion:114 Resp: 425988

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.8

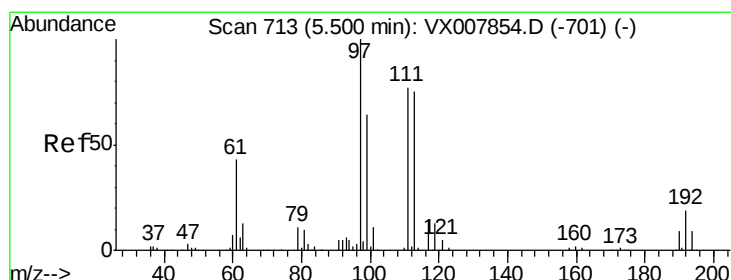
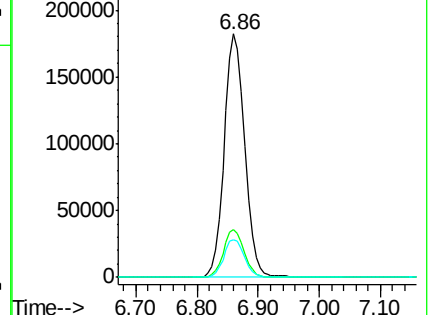
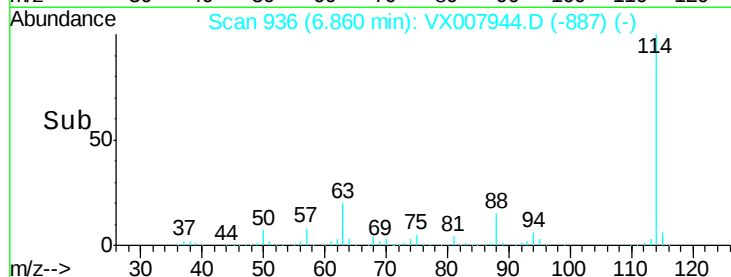
88 15.5 0.0 31.4



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: 50.560 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007944.D

Acq: 08 Mar 2019 21:22

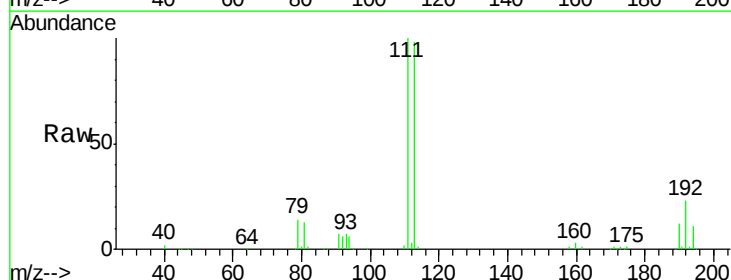
Tgt Ion:113 Resp: 137772

Ion Ratio Lower Upper

113 100

111 103.1 81.4 122.0

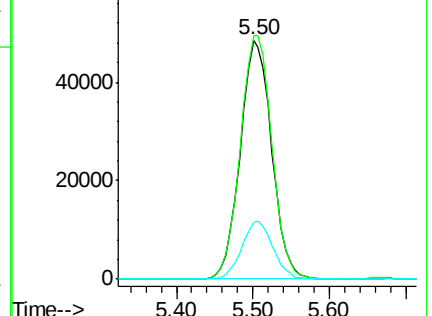
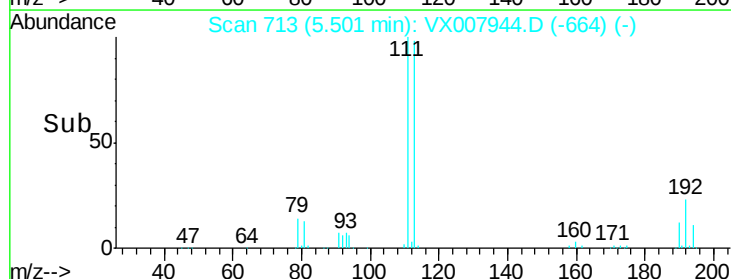
192 24.1 19.4 29.0

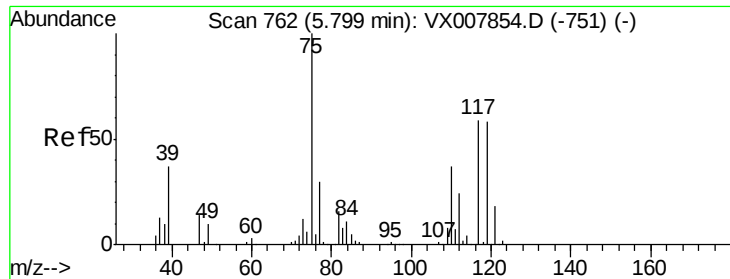


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

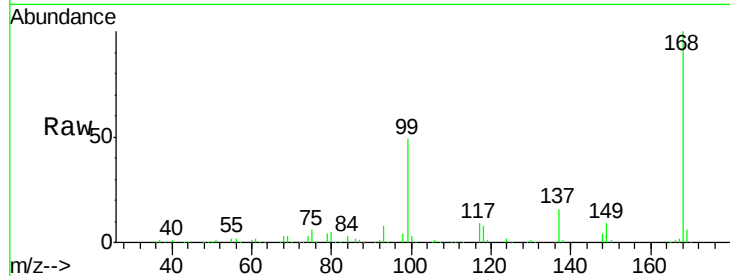




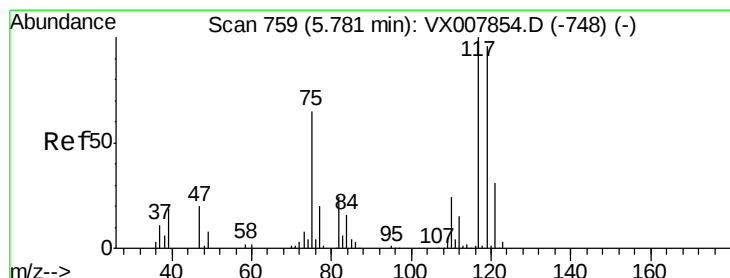
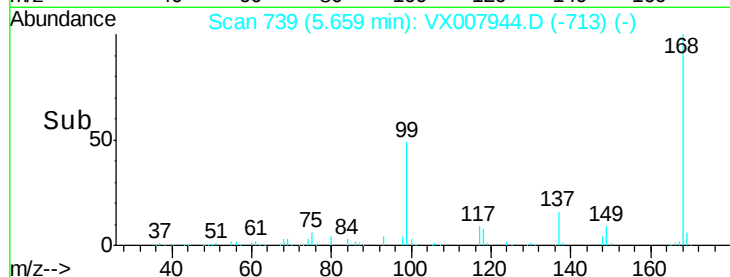
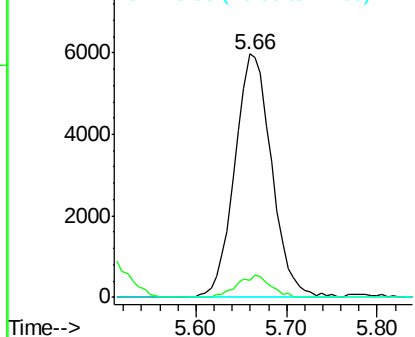
#36
 1,1-Dichloropropene
 Concen: 4.372 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX007944.D
 Acq: 08 Mar 2019 21:22

Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D3-20190306

Tot Ion: 75 Resp: 16862
 Ion Ratio Lower Upper
 75 100
 110 8.2 18.4 55.0#
 77 0.0 25.0 37.4#

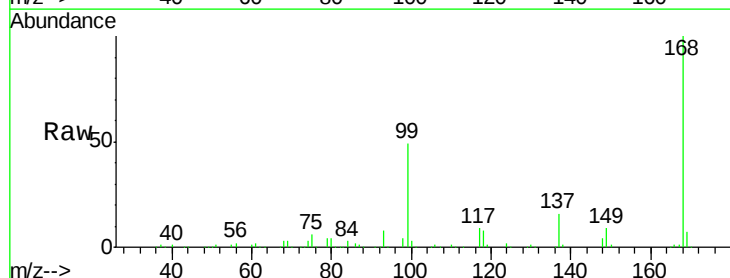


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

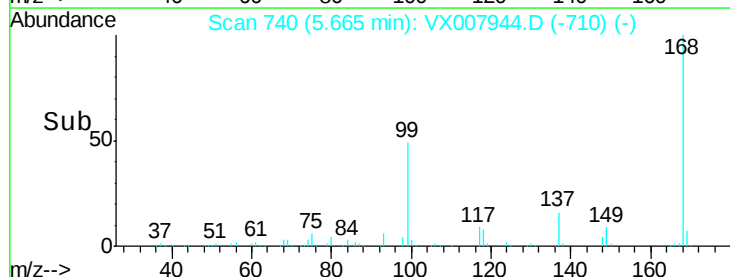
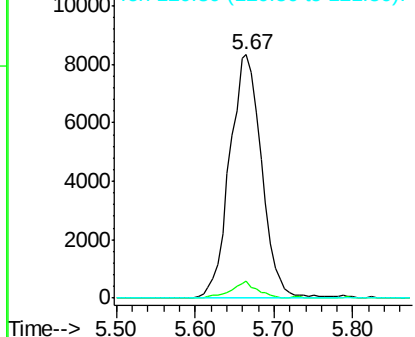


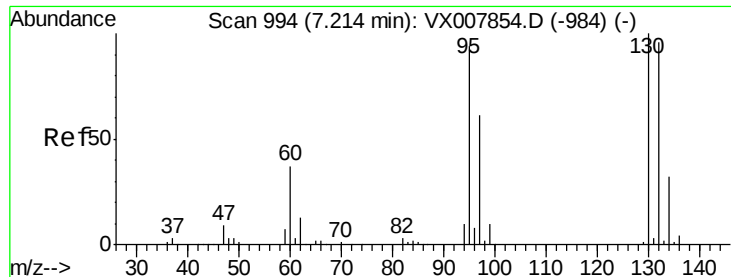
#38
 Carbon Tetrachloride
 Concen: 6.429 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007944.D
 Acq: 08 Mar 2019 21:22

Tgt Ion: 117 Resp: 23543
 Ion Ratio Lower Upper
 117 100
 119 6.8 76.2 114.2#
 121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

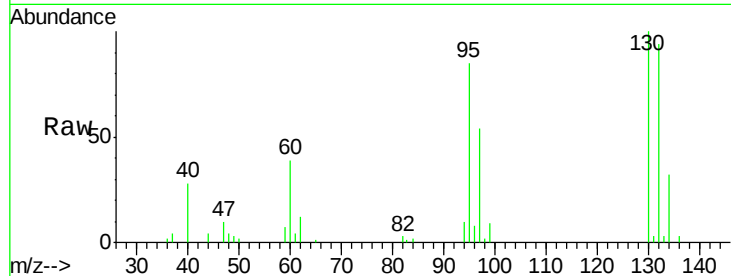




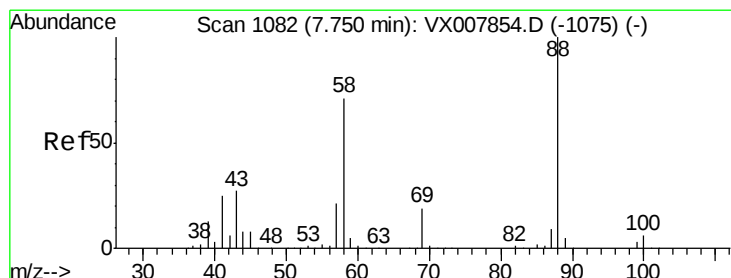
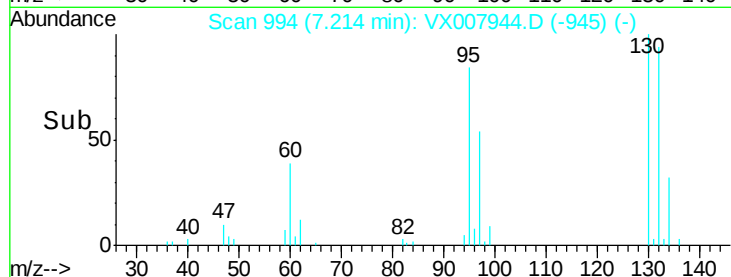
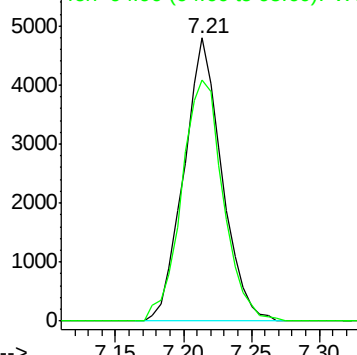
#44
 Trichloroethene
 Concen: 2.960 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX007944.D
 Acq: 08 Mar 2019 21:22

Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D3-20190306

Tot Ion:130 Resp: 9366
 Ion Ratio Lower Upper
 130 100
 95 85.3 0.0 188.0

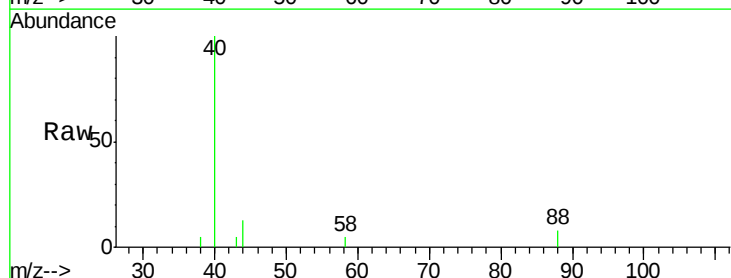


Abundance Ion 129.80 (129.50 to 130.50): V

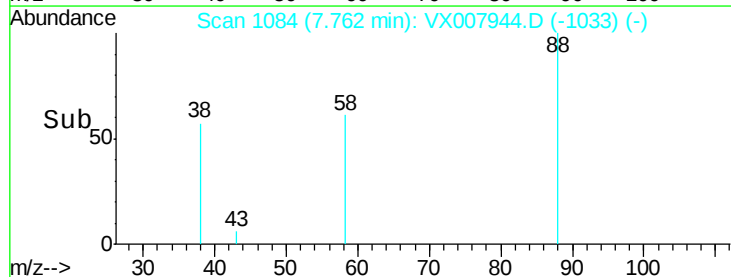
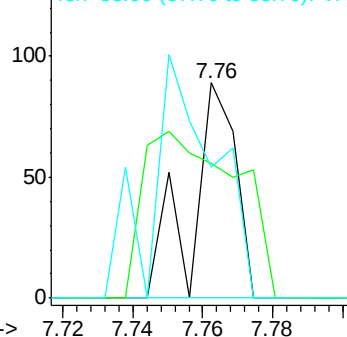


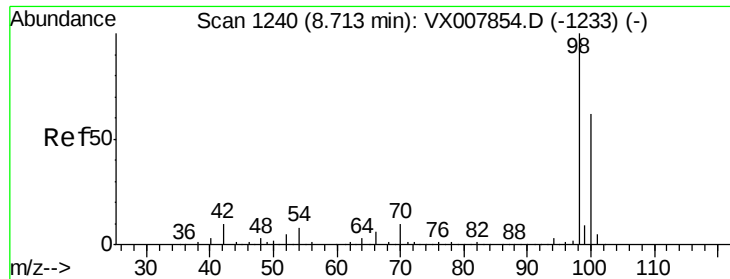
#49
 1,4-Dioxane
 Concen: 1.052 ug/l
 RT: 7.76 min Scan# 1084
 Delta R.T. 0.01 min
 Lab File: VX007944.D
 Acq: 08 Mar 2019 21:22

Tgt Ion: 88 Resp: 77
 Ion Ratio Lower Upper
 88 100
 43 166.2 25.1 37.7#
 58 163.6 57.8 86.6#



Abundance Ion 88.00 (87.70 to 88.70): VX0





#50

Toluene-d8

Concen: 51.424 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007944.D

Acq: 08 Mar 2019 21:22

Instrument :

MSVOA_X

ClientSampleId :

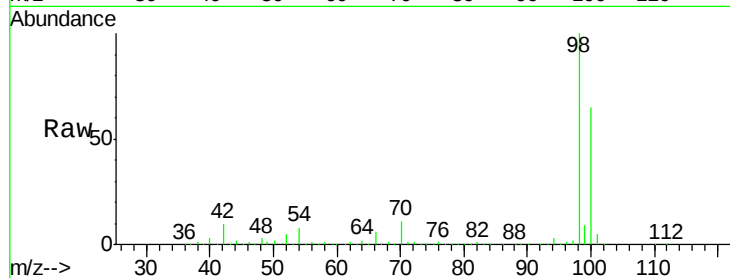
RE126D3-20190306

Tot Ion: 98 Resp: 514622

Ion Ratio Lower Upper

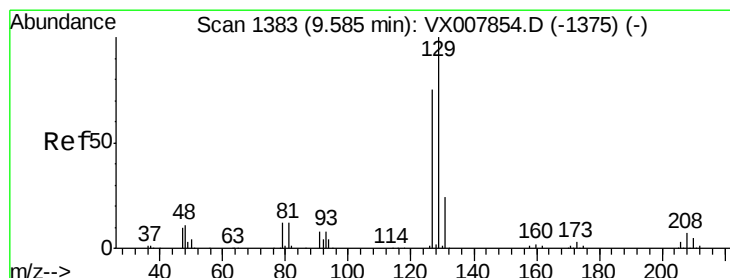
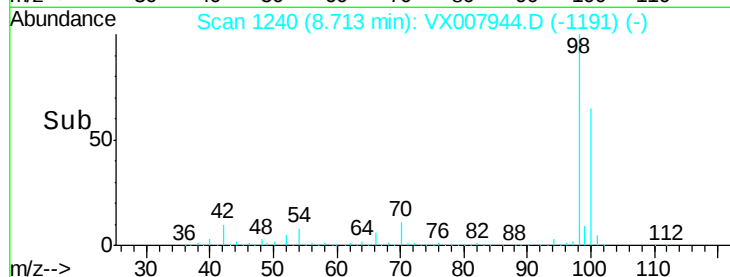
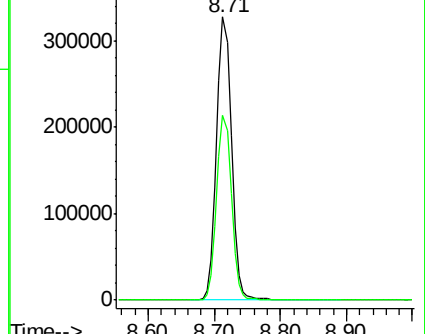
98 100

100 65.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 2.081 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX007944.D

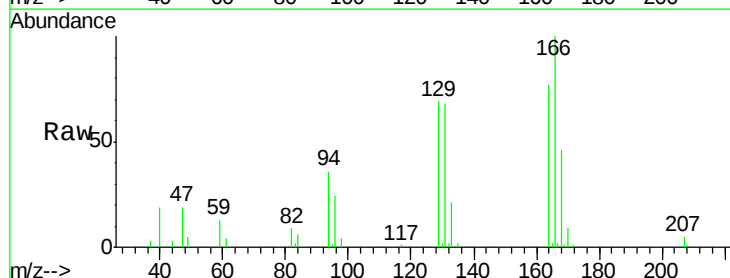
Acq: 08 Mar 2019 21:22

Tgt Ion:129 Resp: 6173

Ion Ratio Lower Upper

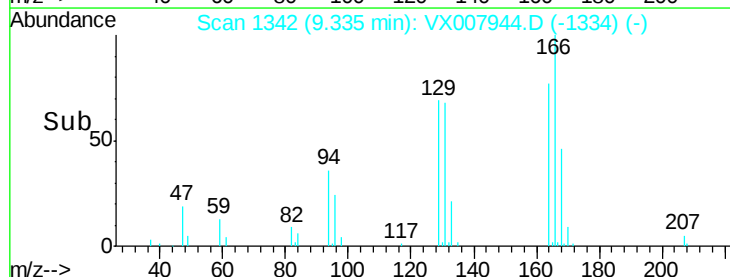
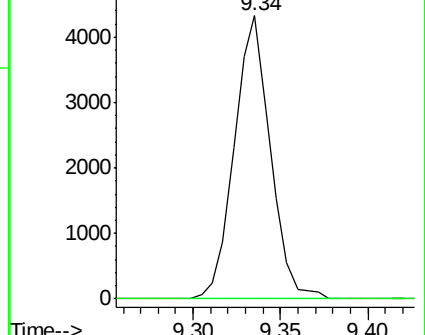
129 100

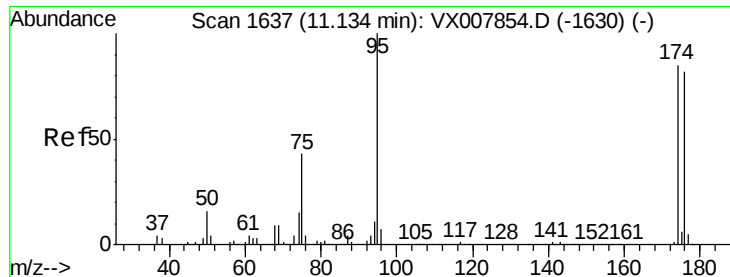
127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 53.463 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007944.D

Acq: 08 Mar 2019 21:22

Instrument :

MSVOA_X

ClientSampleId :

RE126D3-20190306

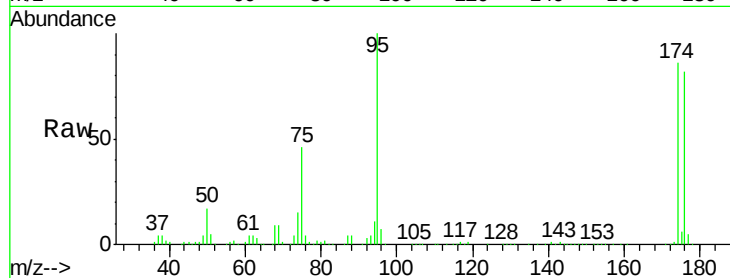
Tot Ion: 95 Resp: 187582

Ion Ratio Lower Upper

95 100

174 92.0 0.0 182.8

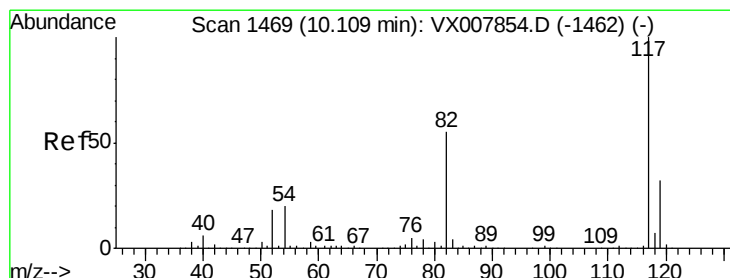
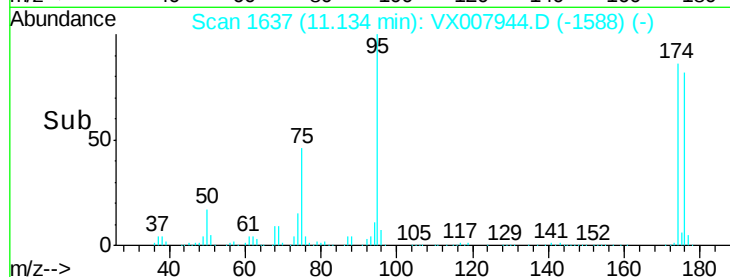
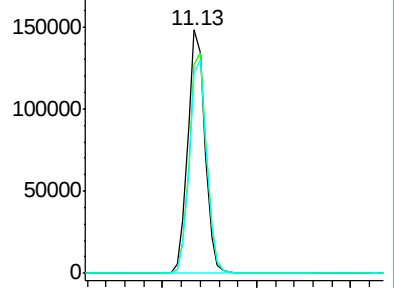
176 88.9 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX007854.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX007854.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX007854.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007944.D

Acq: 08 Mar 2019 21:22

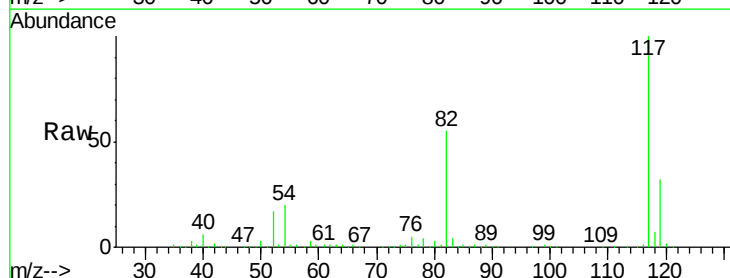
Tgt Ion: 117 Resp: 398609

Ion Ratio Lower Upper

117 100

82 55.0 44.3 66.5

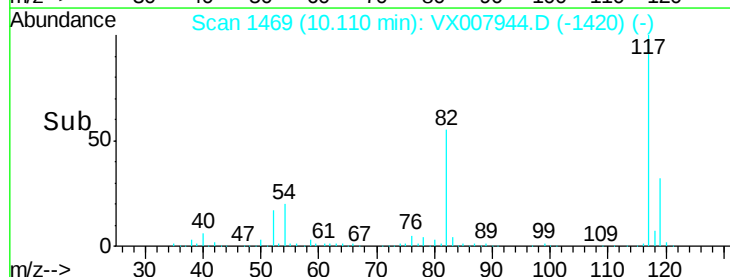
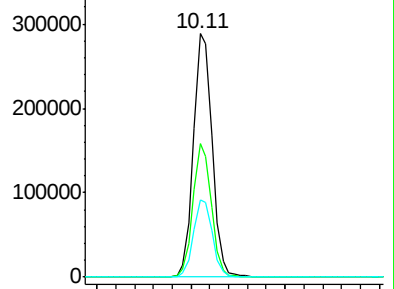
119 31.8 25.3 37.9

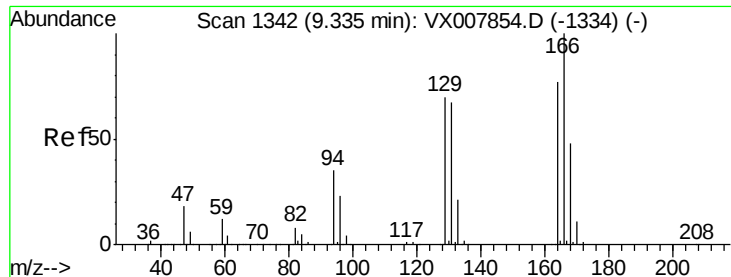


Abundance Ion 116.90 (116.60 to 117.60): VX007854.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX007854.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX007854.D (-1462) (-)





#64

Tetrachloroethene

Concen: 2.159 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX007944.D

Acq: 08 Mar 2019 21:22

Instrument :

MSVOA_X

ClientSampleId :

RE126D3-20190306

Tot Ion:164 Resp: 7132

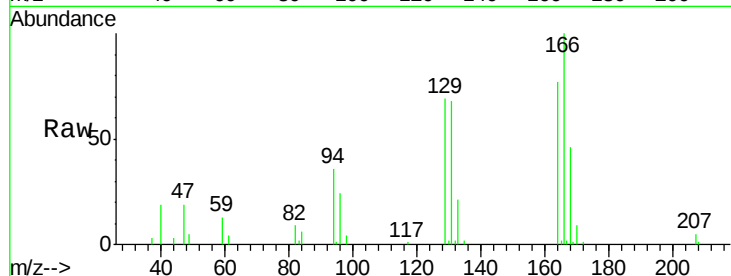
Ion Ratio Lower Upper

164 100

166 129.6 103.4 155.0

129 89.7 72.2 108.4

131 88.0 69.4 104.2

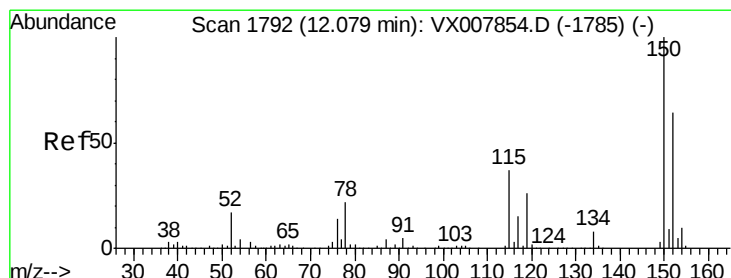
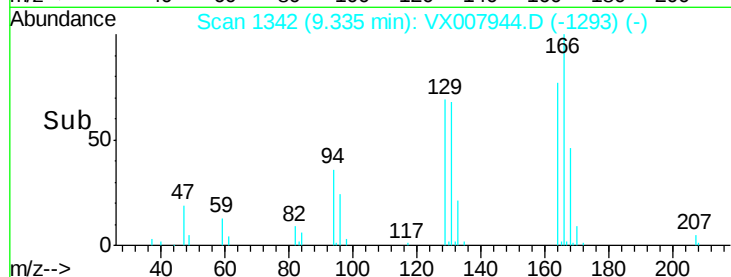
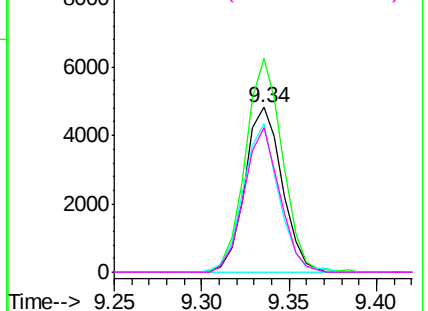


Abundance Ion 163.80 (163.50 to 164.50): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007944.D

Acq: 08 Mar 2019 21:22

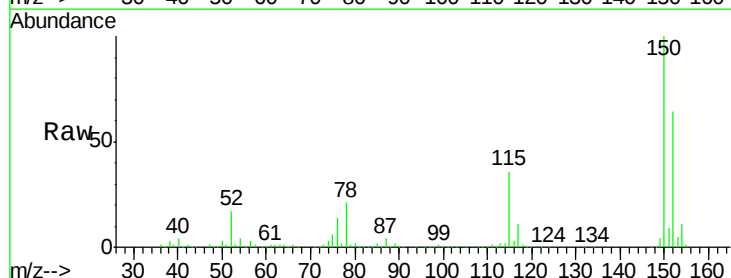
Tgt Ion:152 Resp: 190324

Ion Ratio Lower Upper

152 100

115 56.0 38.6 115.7

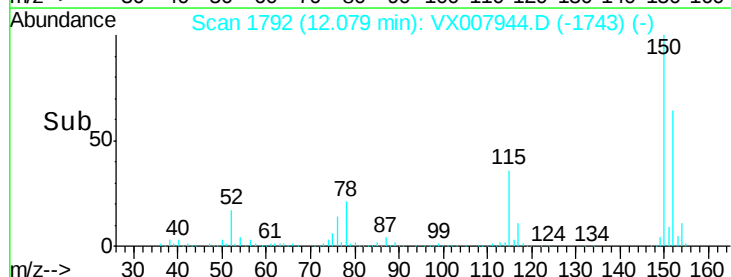
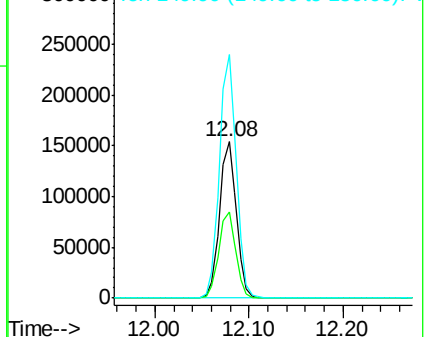
150 156.5 0.0 348.4

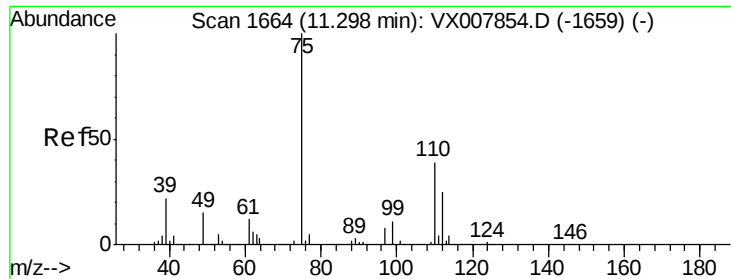


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.680 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007944.D

Acq: 08 Mar 2019 21:22

Instrument :

MSVOA_X

ClientSampleId :

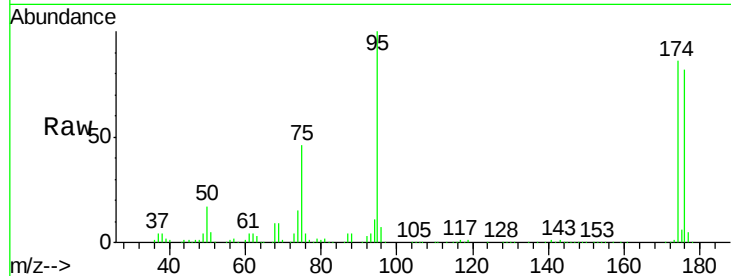
RE126D3-20190306

Tot Ion: 75 Resp: 86584

Ion Ratio Lower Upper

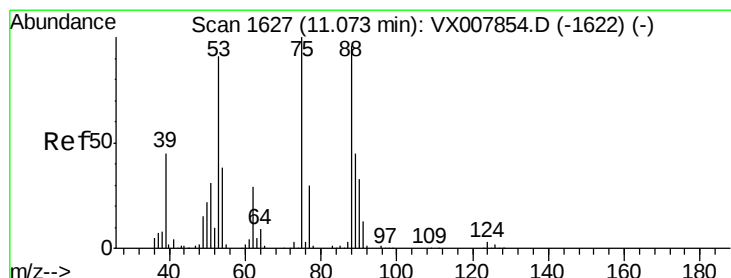
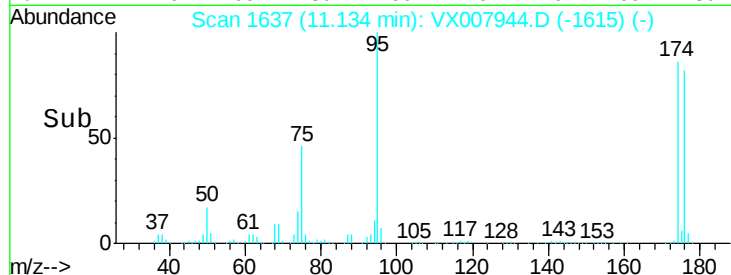
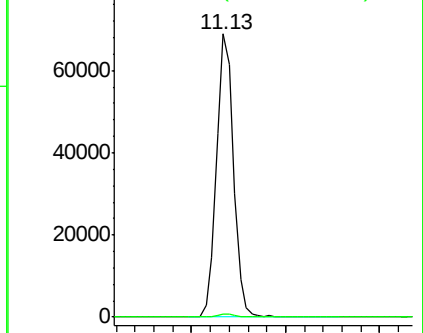
75 100

77 1.2 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 69.299 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007944.D

Acq: 08 Mar 2019 21:22

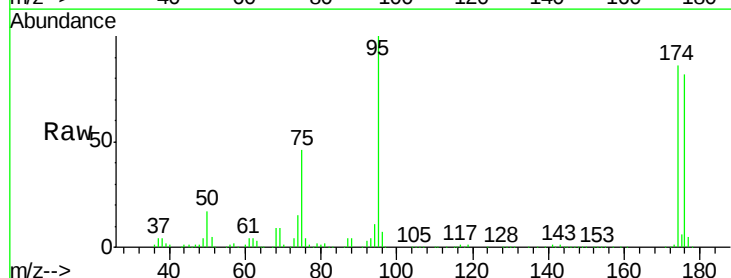
Tgt Ion: 75 Resp: 86584

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

