

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX042419\
 Data File : VX009141.D
 Acq On : 24 Apr 2019 13:37
 Operator : JC/SP
 Sample : K2535-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-ER-2019-1

Quant Time: Apr 25 05:20:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	229612	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	373007	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	314516	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	131058	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	154472	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	
35) Dibromofluoromethane	5.50	113	112469	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
50) Toluene-d8	8.71	98	458599	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
62) 4-Bromofluorobenzene	11.13	95	149270	44.29	ug/l	0.00
Spiked Amount			Recovery	=	88.58%	

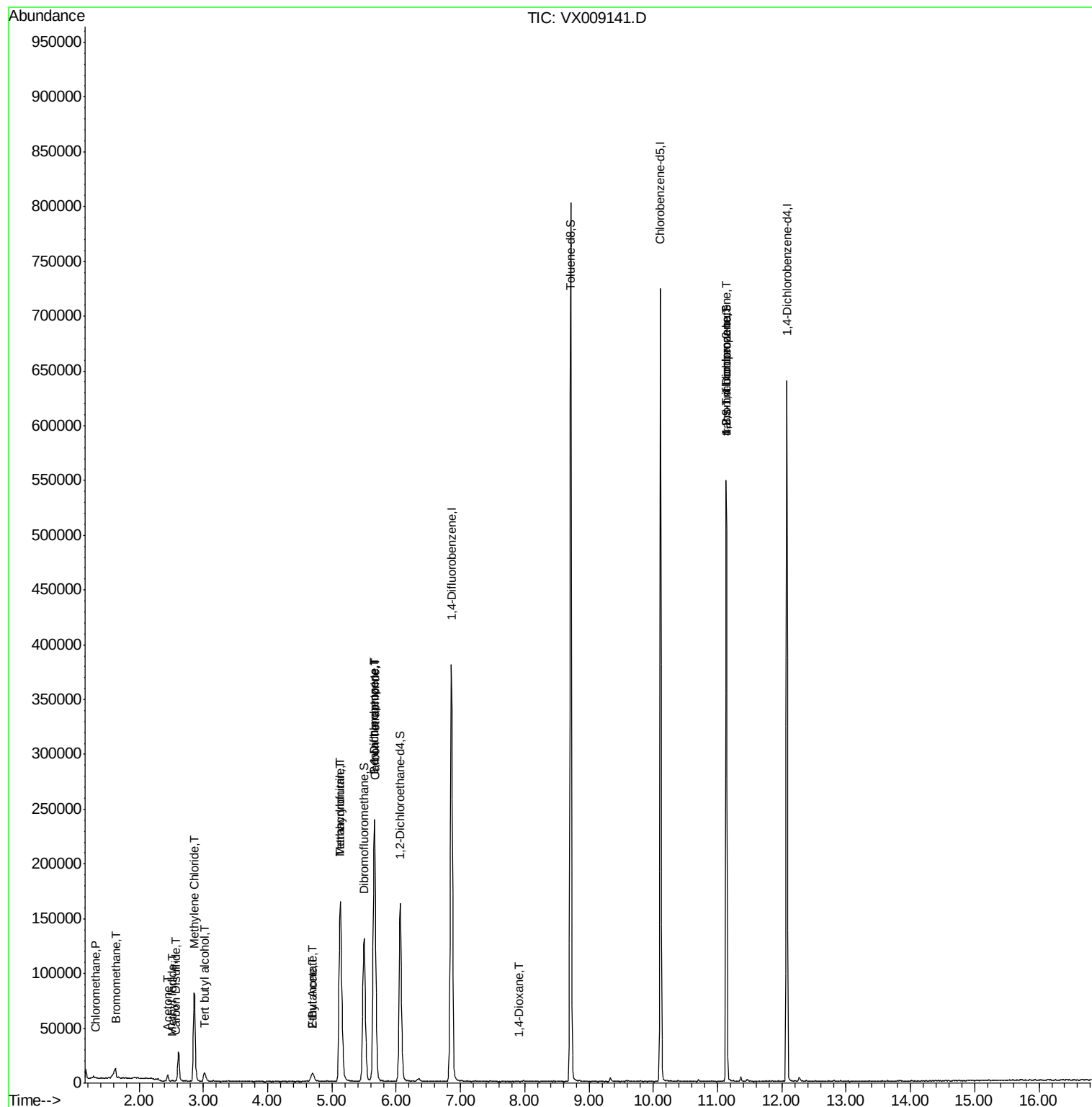
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	698	0.215	ug/l	93
5) Bromomethane	1.64	94	561	4.110	ug/l	84
10) Methyl Iodide	2.52	142	248	4.502	ug/l #	52
11) Tert butyl alcohol	3.02	59	5893	8.204	ug/l #	80
16) Acetone	2.45	43	6505	3.877	ug/l	93
17) Carbon Disulfide	2.57	76	1049	1.394	ug/l #	94
20) Methylene Chloride	2.86	84	38009	13.245	ug/l	94
25) 2-Butanone	4.69	43	2992	1.115	ug/l	97
28) Bromochloromethane	5.01	49	94	Below Cal	#	21
29) Tetrahydrofuran	5.13	42	167207	93.137	ug/l	98
36) 1,1-Dichloropropene	5.67	75	18743	4.859	ug/l #	50
37) Ethyl Acetate	4.69	43	2948	0.594	ug/l #	70
38) Carbon Tetrachloride	5.67	117	21760	6.654	ug/l #	18
41) Methacrylonitrile	5.13	41	90845	31.887	ug/l #	48
49) 1,4-Dioxane	7.90	88	42	0.568	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	76430	23.883	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	76430	61.314	ug/l #	11

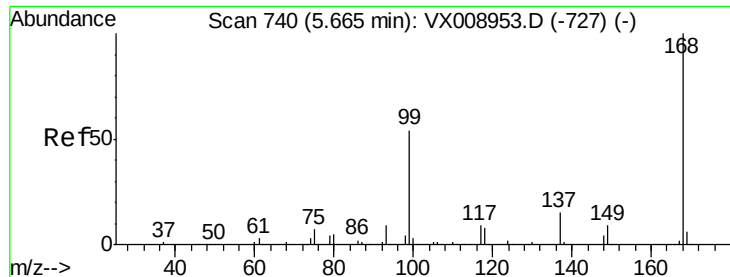
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009141.D

Acq: 24 Apr 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

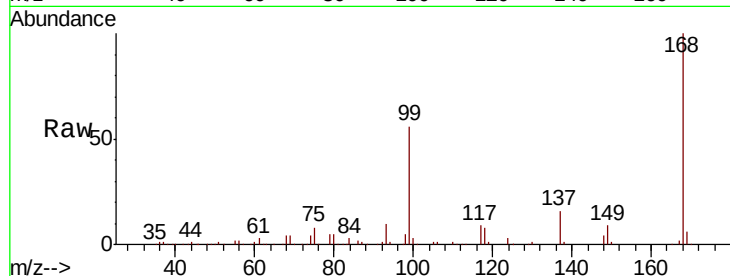
S37-ER-2019-1

Tgt Ion:168 Resp: 229612

Ion Ratio Lower Upper

168 100

99 56.2 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

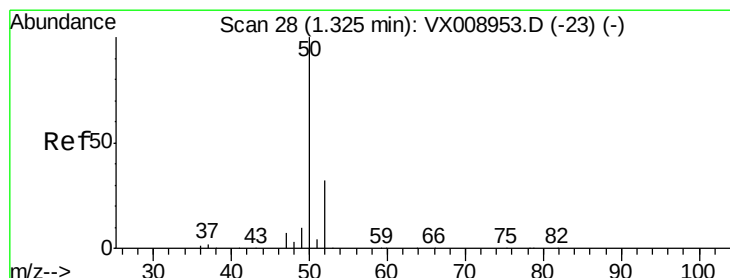
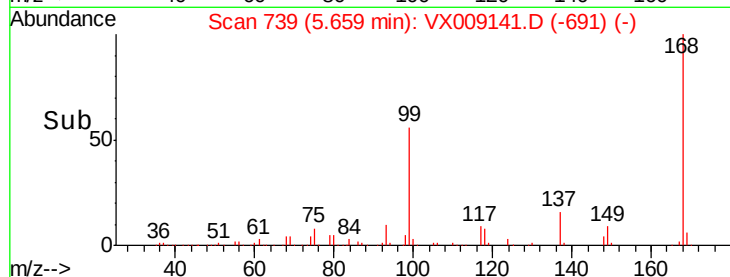
40000

20000

0

5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.215 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009141.D

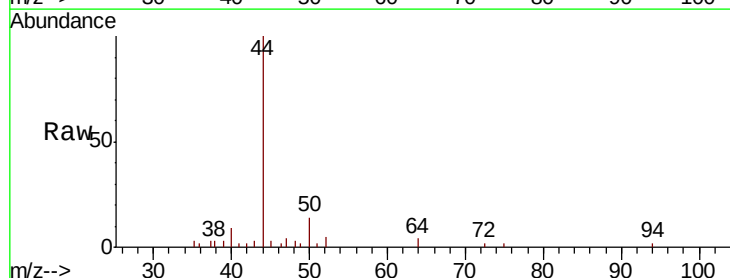
Acq: 24 Apr 2019 13:37

Tgt Ion: 50 Resp: 698

Ion Ratio Lower Upper

50 100

52 35.6 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

300

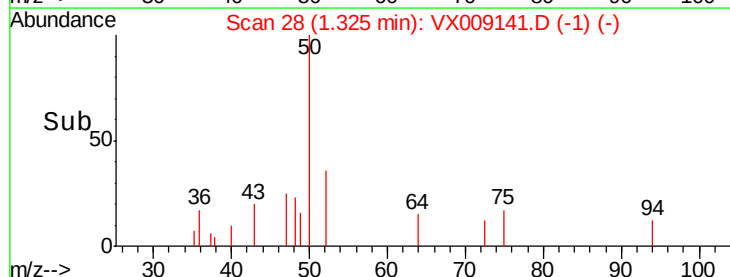
200

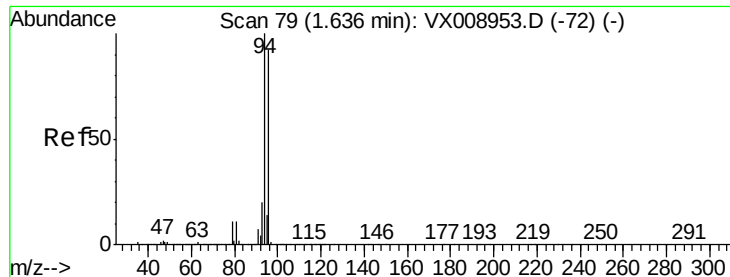
100

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: 4.110 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009141.D

Acq: 24 Apr 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

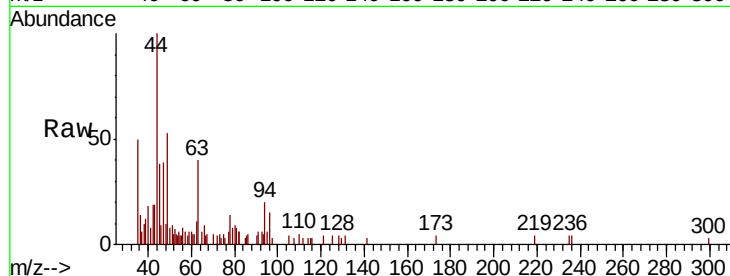
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Tgt Ion: 94 Resp: 561

Ion Ratio Lower Upper

94 100

96 76.9 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

200

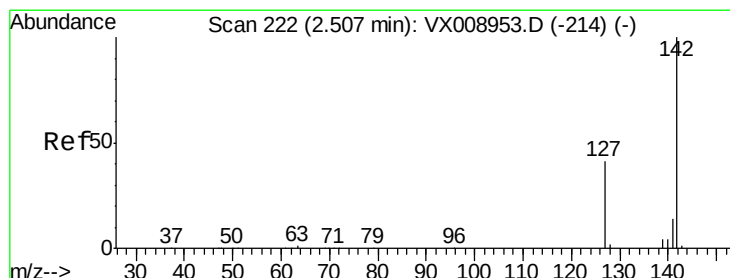
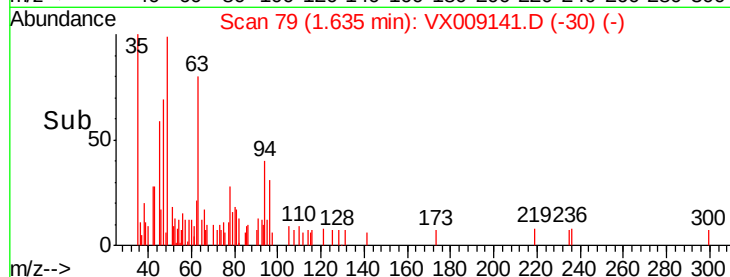
100

0

1.60

1.65

Time-->



#10

Methyl Iodide

Concen: 4.502 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009141.D

Acq: 24 Apr 2019 13:37

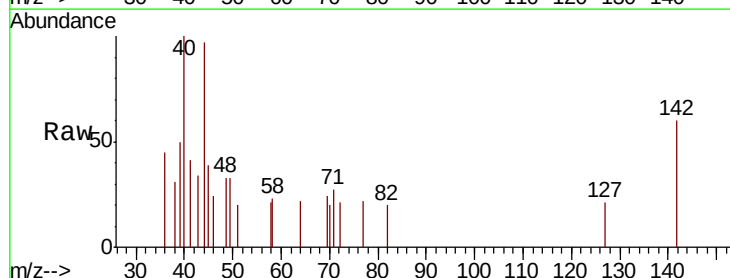
Tgt Ion: 142 Resp: 248

Ion Ratio Lower Upper

142 100

127 8.1 32.8 49.2#

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

200

150

100

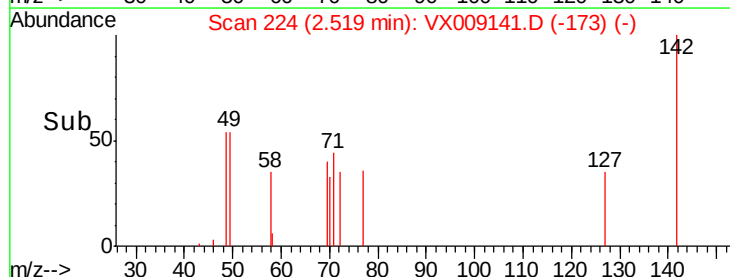
50

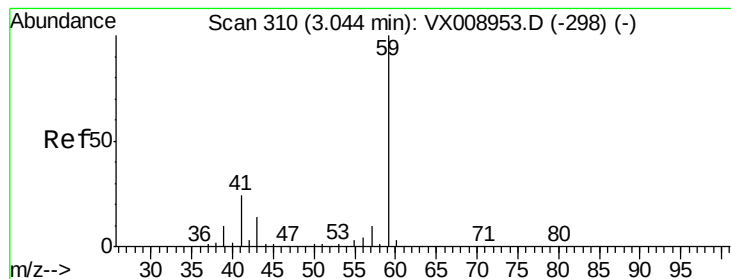
0

2.50

2.55

Time-->





#11

Tert butyl alcohol

Concen: 8.204 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.02 min

Lab File: VX009141.D

Acq: 24 Apr 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

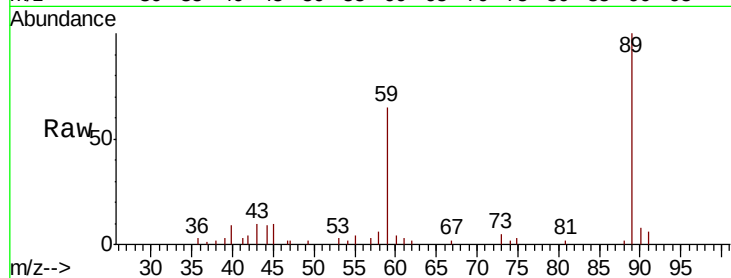
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Tgt Ion: 59 Resp: 5893

Ion Ratio Lower Upper

59 100

57 2.9 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

2500

2000

1500

1000

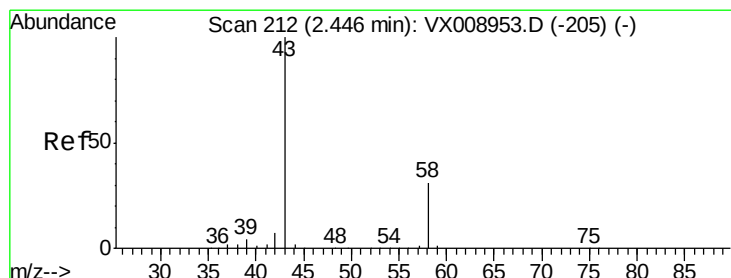
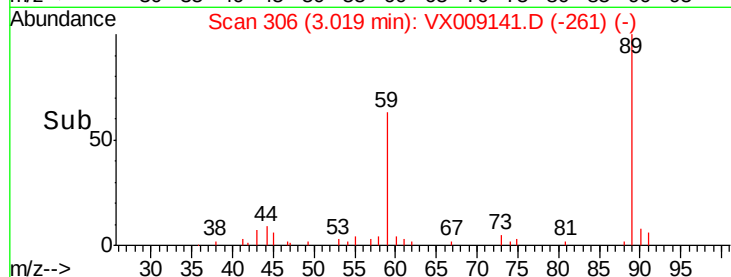
500

0

Time-->

2.90 3.00 3.10

3.02



#16

Acetone

Concen: 3.877 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009141.D

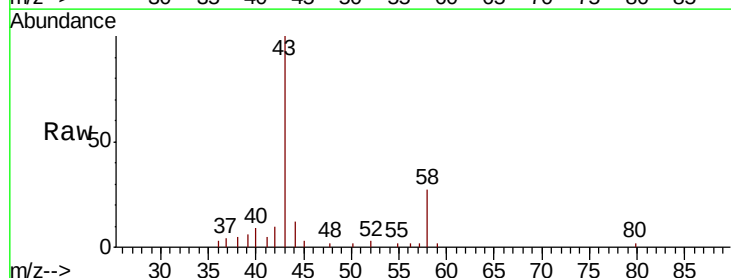
Acq: 24 Apr 2019 13:37

Tgt Ion: 43 Resp: 6505

Ion Ratio Lower Upper

43 100

58 27.0 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

4000

3000

2000

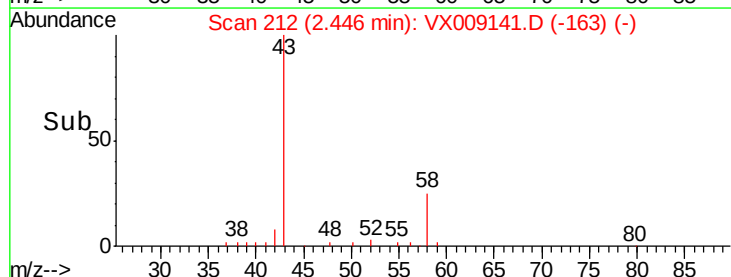
1000

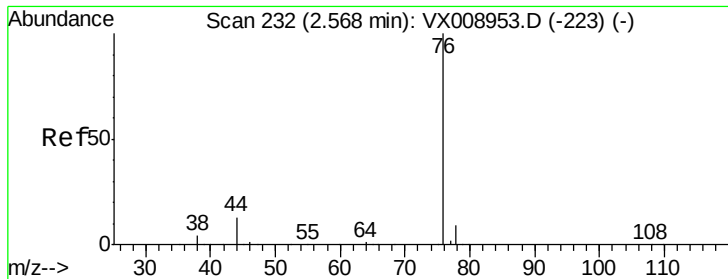
0

Time-->

2.35 2.40 2.45 2.50 2.55

2.45





#17

Carbon Disulfide

Concen: 1.394 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009141.D

Acq: 24 Apr 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

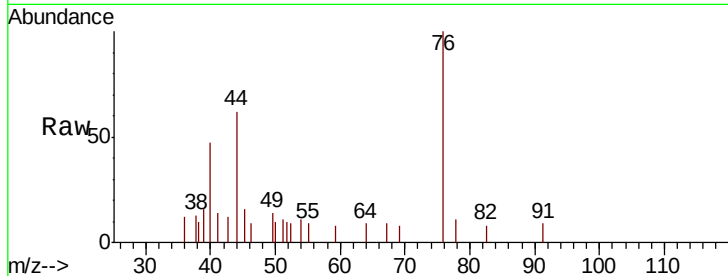
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Tgt Ion: 76 Resp: 1049

Ion Ratio Lower Upper

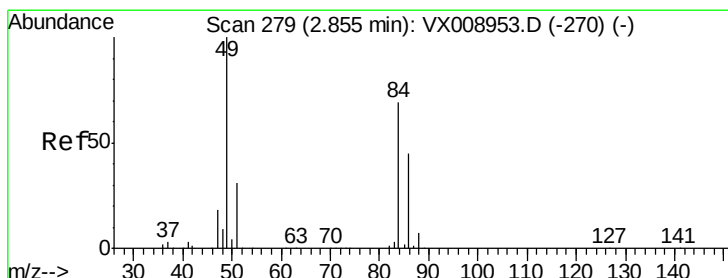
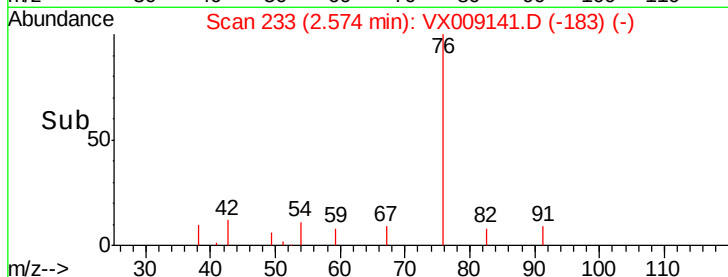
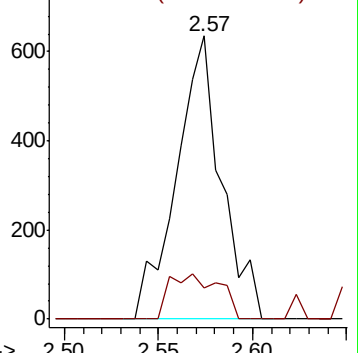
76 100

78 11.2 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 13.245 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009141.D

Acq: 24 Apr 2019 13:37

Tgt Ion: 84 Resp: 38009

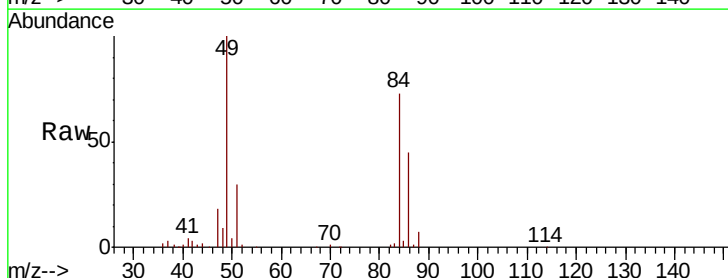
Ion Ratio Lower Upper

84 100

49 136.7 115.4 173.0

51 41.6 35.8 53.6

86 61.2 52.1 78.1

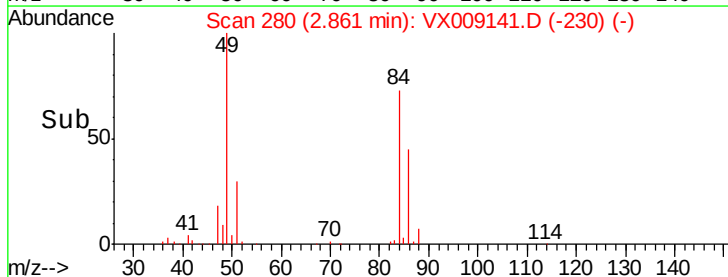
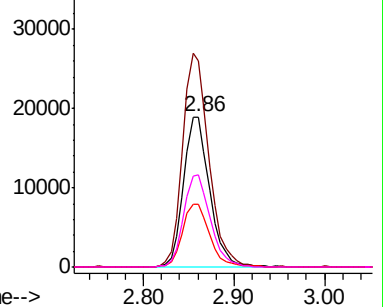


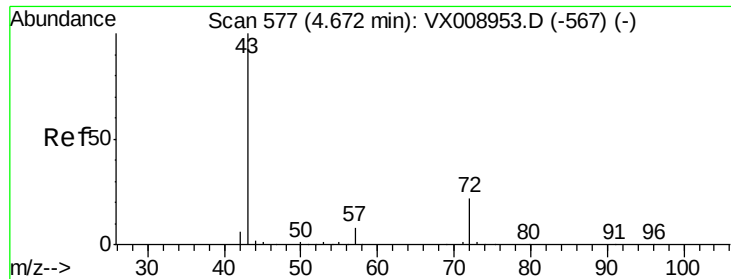
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#25

2-Butanone

Concen: 1.115 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009141.D

Acq: 24 Apr 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

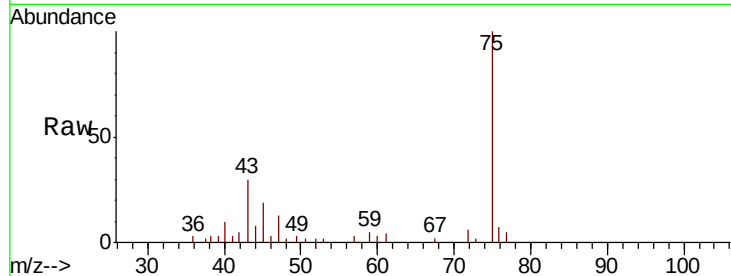
S37-ER-2019-1

Tgt Ion: 43 Resp: 2992

Ion Ratio Lower Upper

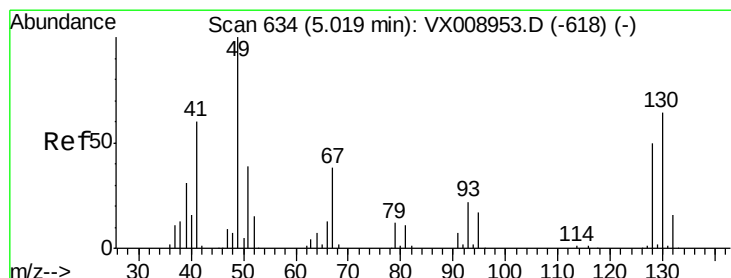
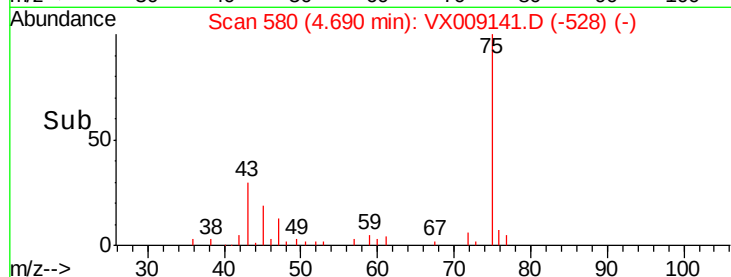
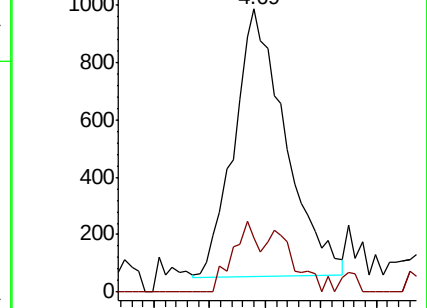
43 100

72 20.6 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX009141.D

Acq: 24 Apr 2019 13:37

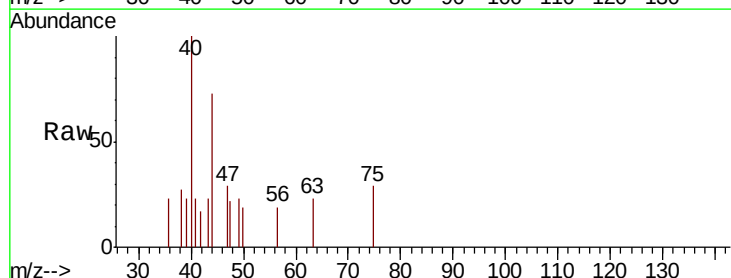
Tgt Ion: 49 Resp: 94

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

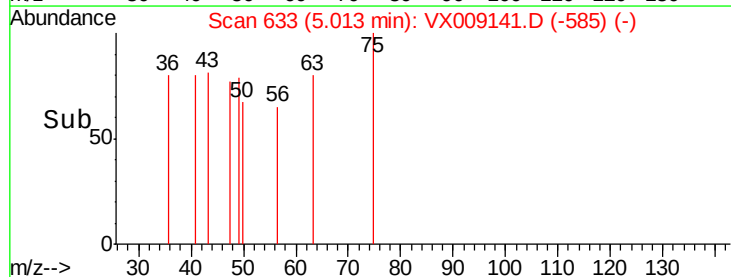
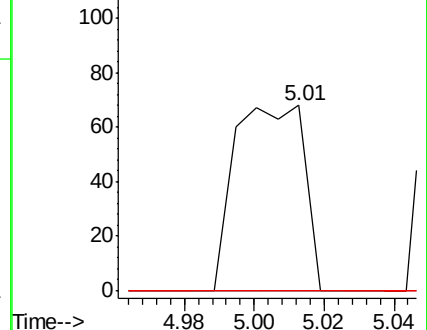
130 0.0 50.4 75.6#

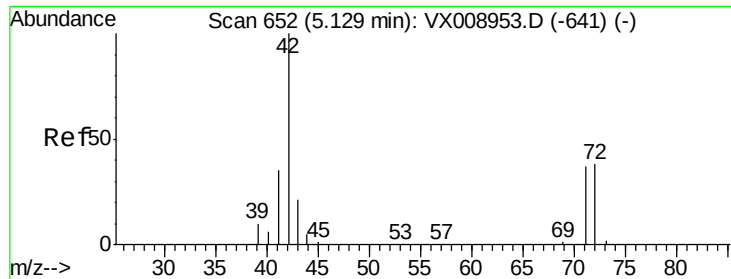


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

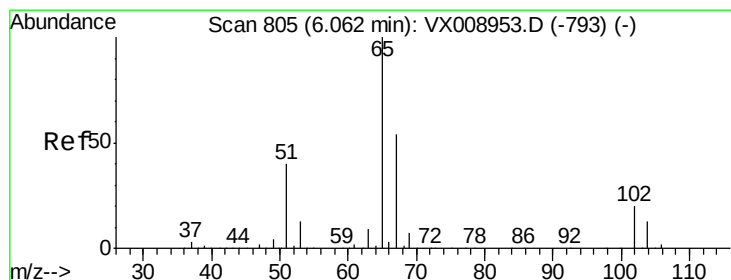
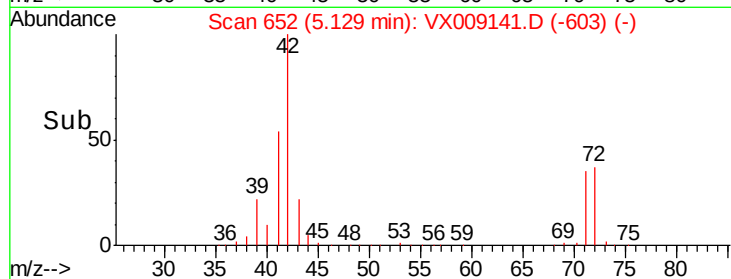
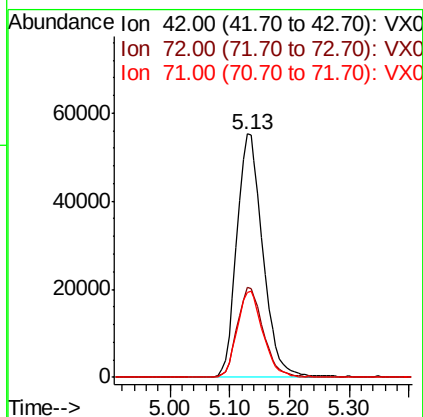
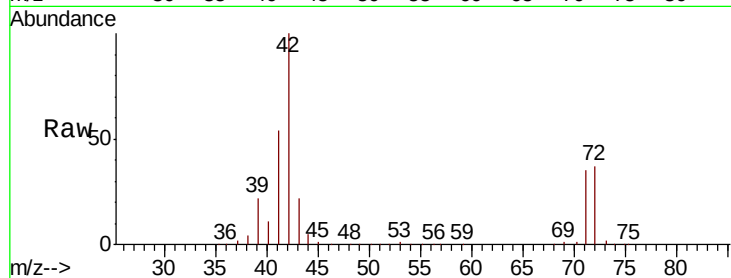




#29
Tetrahydrofuran
Concen: 93.137 ug/l
RT: 5.13 min Scan# 652
Delta R.T. -0.00 min
Lab File: VX009141.D
Acq: 24 Apr 2019 13:37

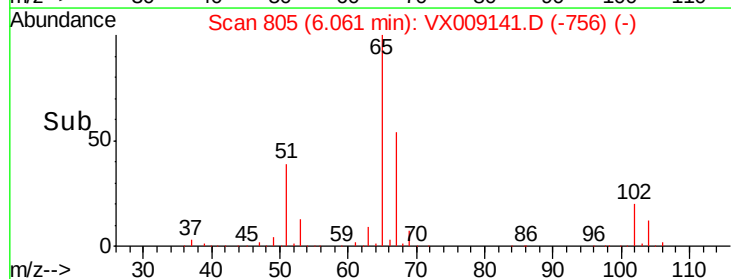
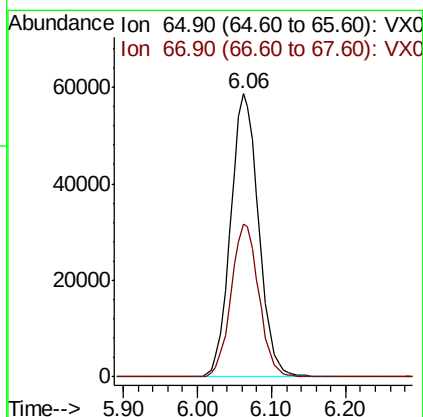
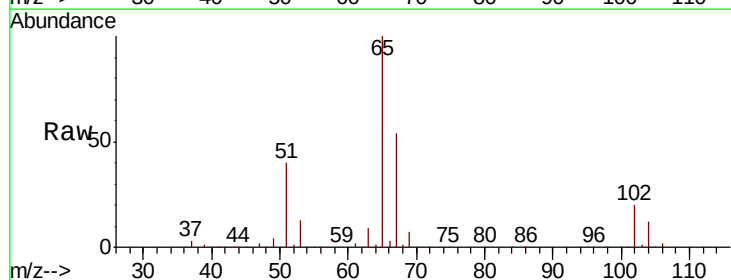
Instrument :
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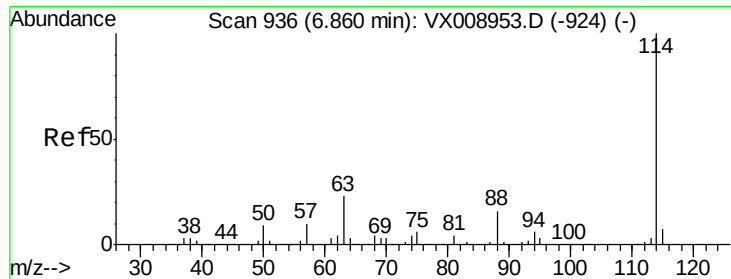
Tgt Ion: 42 Resp: 167207
Ion Ratio Lower Upper
42 100
72 37.0 30.6 45.8
71 35.1 28.8 43.2



#33
1,2-Dichloroethane-d4
Concen: 47.737 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009141.D
Acq: 24 Apr 2019 13:37

Tgt Ion: 65 Resp: 154472
Ion Ratio Lower Upper
65 100
67 53.9 0.0 108.6

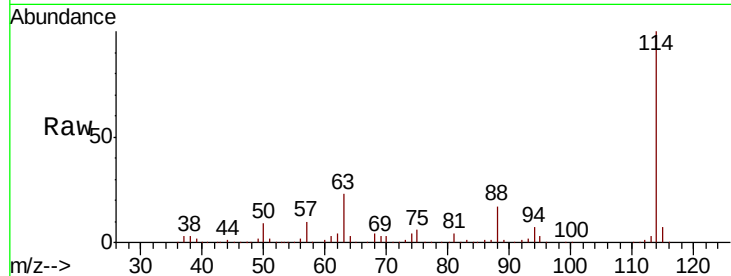




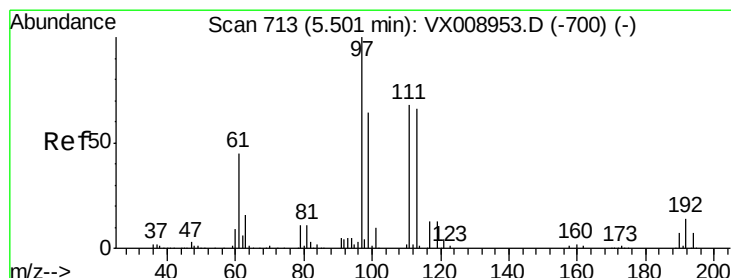
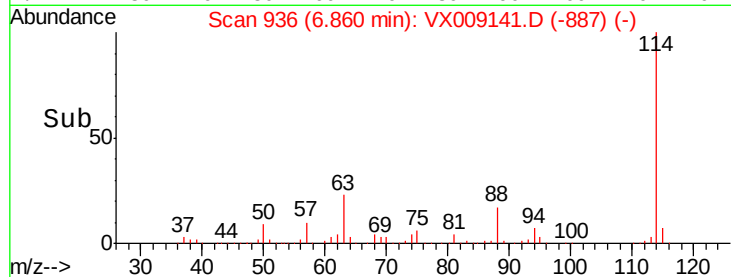
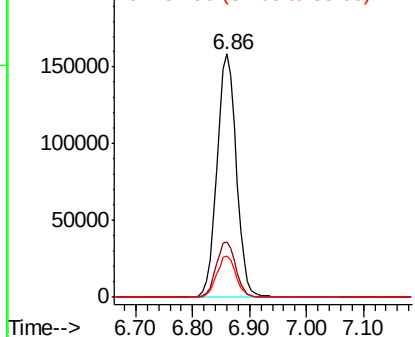
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009141.D
 Acq: 24 Apr 2019 13:37

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-ER-2019-1

Tgt Ion:114 Resp: 373007
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 46.0
 88 17.2 0.0 32.6

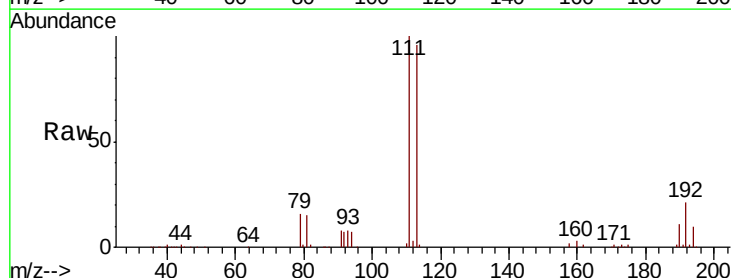


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

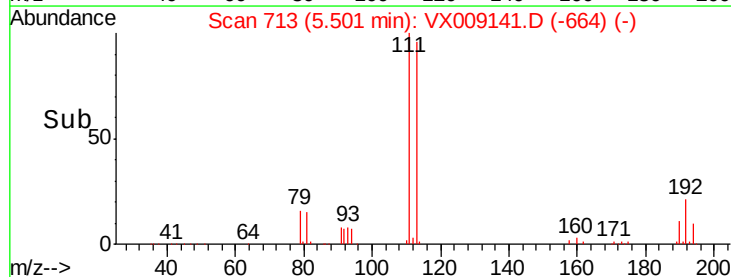
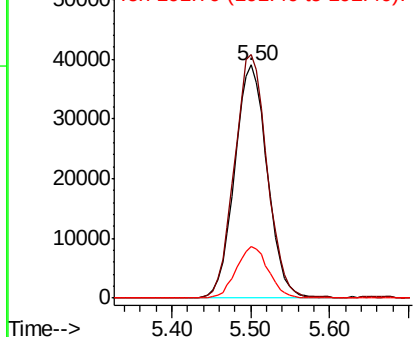


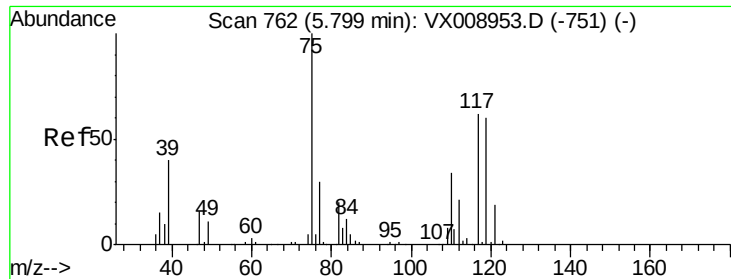
#35
 Dibromofluoromethane
 Concen: 46.982 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX009141.D
 Acq: 24 Apr 2019 13:37

Tgt Ion:113 Resp: 112469
 Ion Ratio Lower Upper
 113 100
 111 104.8 82.9 124.3
 192 21.7 17.4 26.0



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

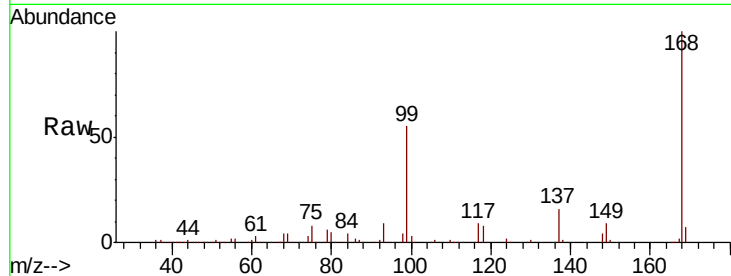




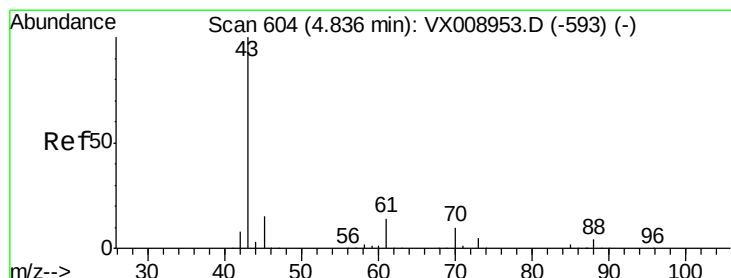
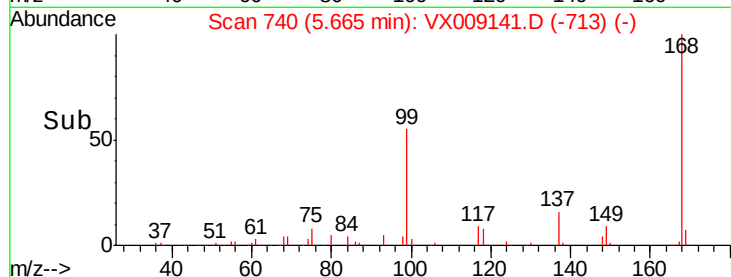
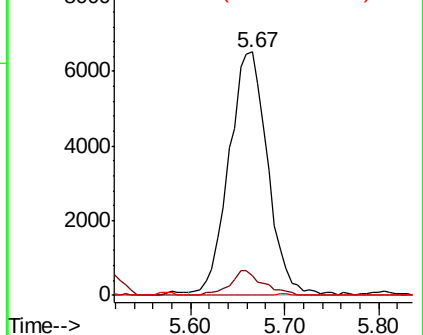
#36
 1,1-Dichloropropene
 Concen: 4.859 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009141.D
 Acq: 24 Apr 2019 13:37

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-ER-2019-1

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.9	50.7#
77	0.0	25.0	37.4#

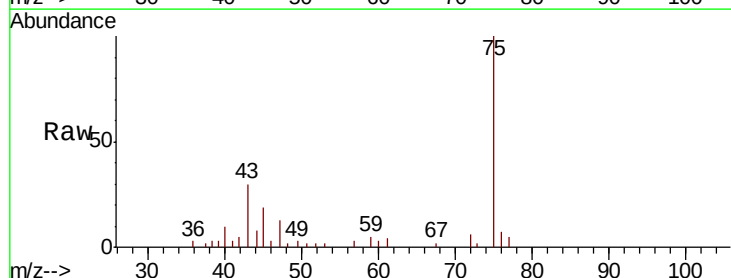


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

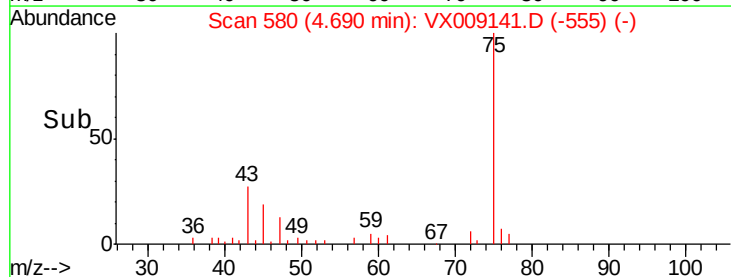
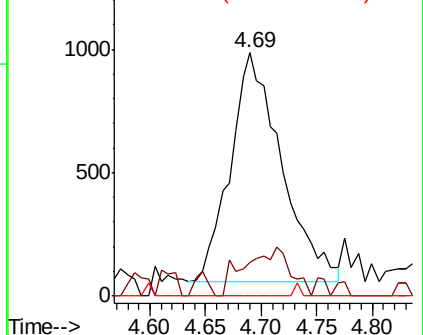


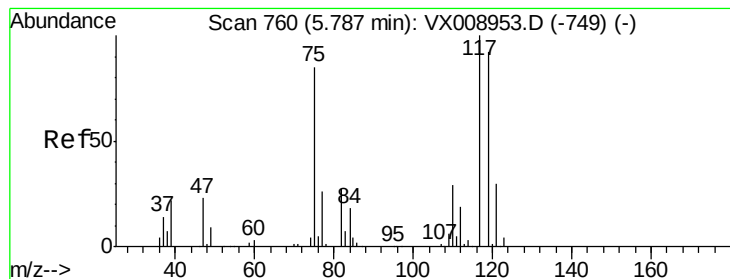
#37
 Ethyl Acetate
 Concen: 0.594 ug/l
 RT: 4.69 min Scan# 580
 Delta R.T. -0.15 min
 Lab File: VX009141.D
 Acq: 24 Apr 2019 13:37

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.6	15.8#
70	0.0	7.7	11.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 6.654 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.12 min

Lab File: VX009141.D

Acq: 24 Apr 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

S37-ER-2019-1

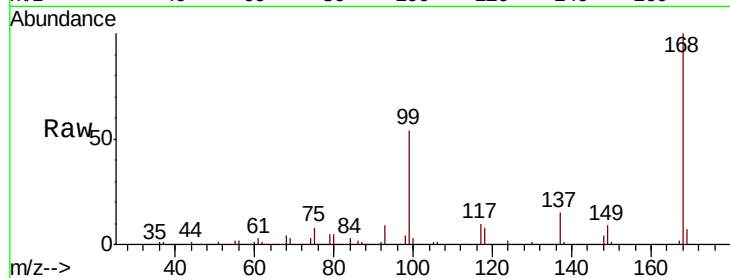
Tgt Ion:117 Resp: 21760

Ion Ratio Lower Upper

117 100

119 5.2 73.8 110.8#

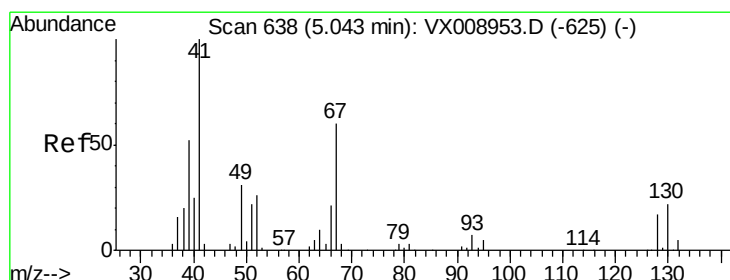
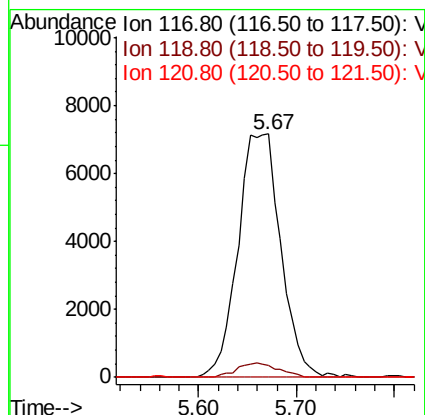
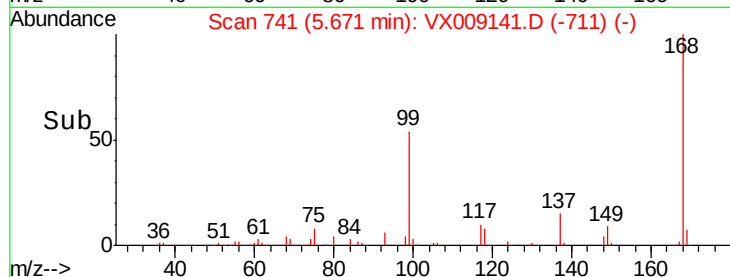
121 0.0 23.6 35.4#



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



#41

Methacrylonitrile

Concen: 31.887 ug/l

RT: 5.13 min Scan# 652

Delta R.T. 0.09 min

Lab File: VX009141.D

Acq: 24 Apr 2019 13:37

Tgt Ion: 41 Resp: 90845

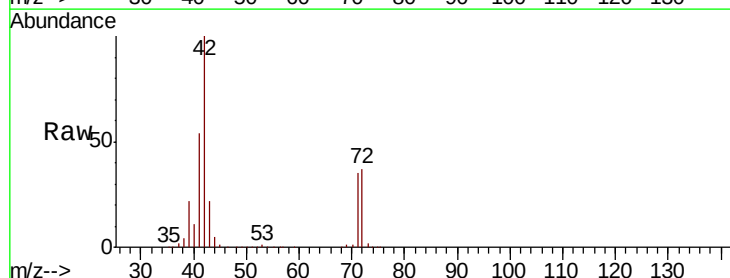
Ion Ratio Lower Upper

41 100

39 39.6 41.8 62.6#

67 0.1 50.2 75.4#

52 0.1 21.1 31.7#

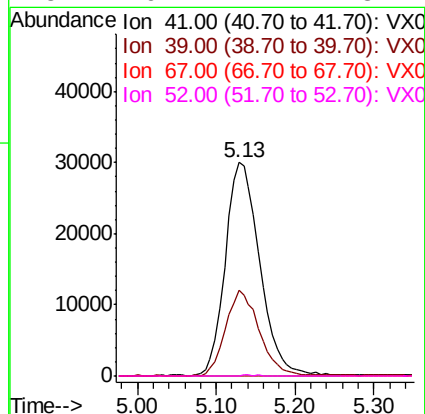
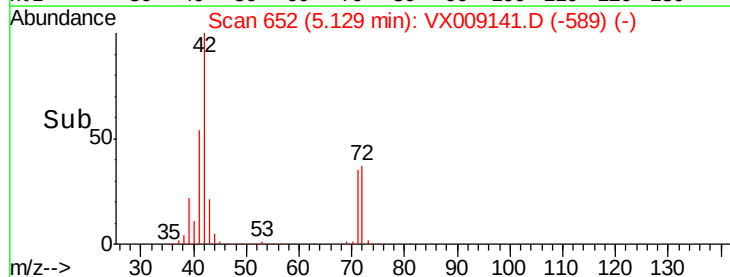


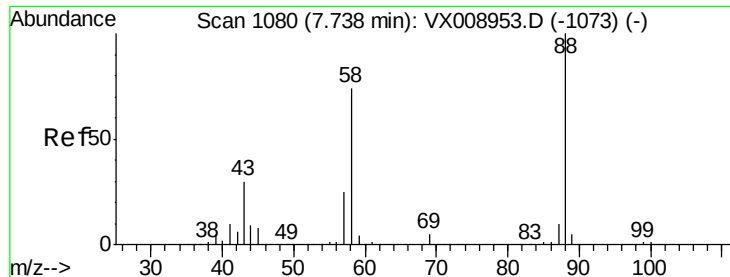
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

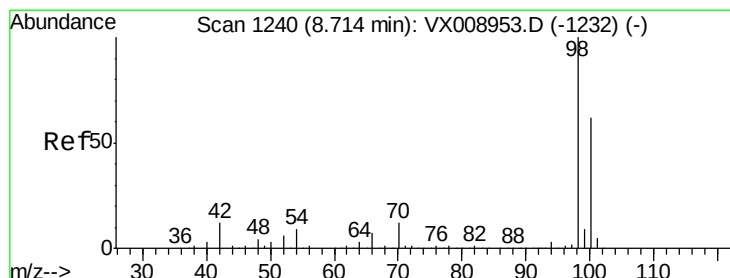
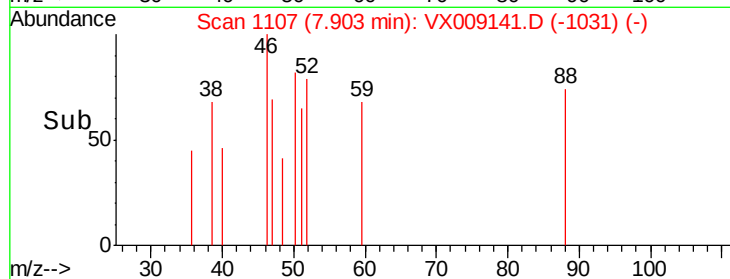
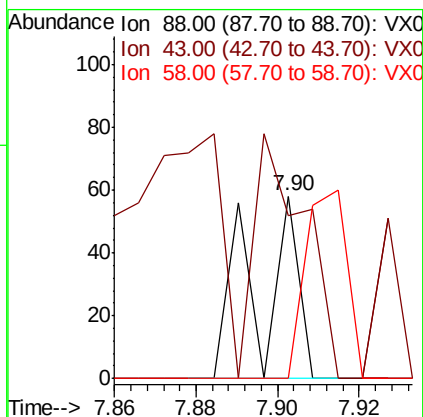
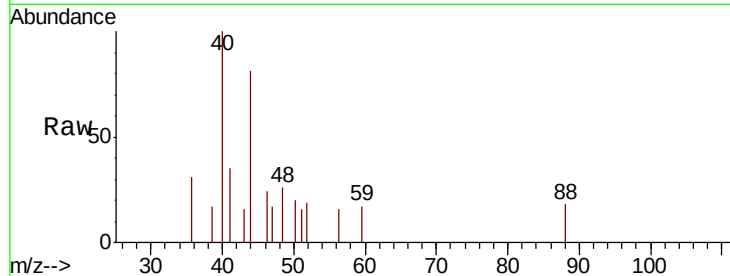




#49
1,4-Dioxane
Concen: 0.568 ug/l
RT: 7.90 min Scan# 1107
Delta R.T. 0.16 min
Lab File: VX009141.D
Acq: 24 Apr 2019 13:37

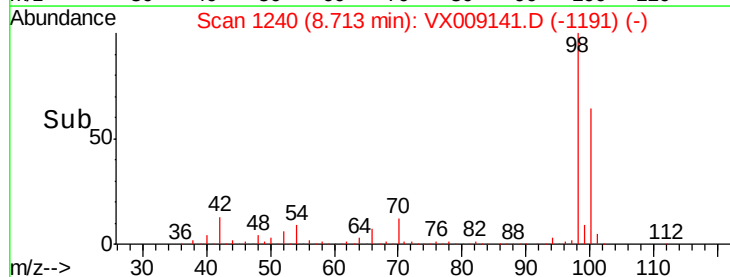
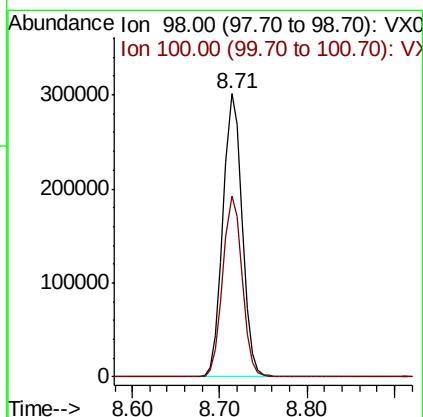
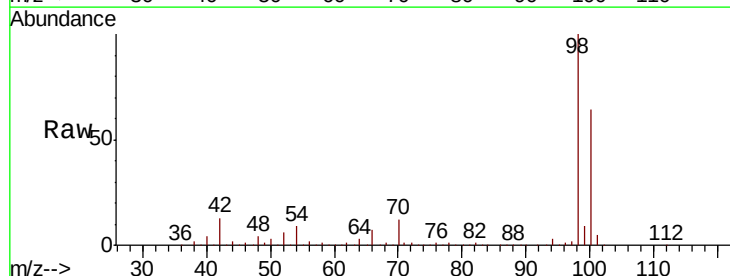
Instrument :
MSVOA_X
ClientSampleId :
S37-ER-2019-1

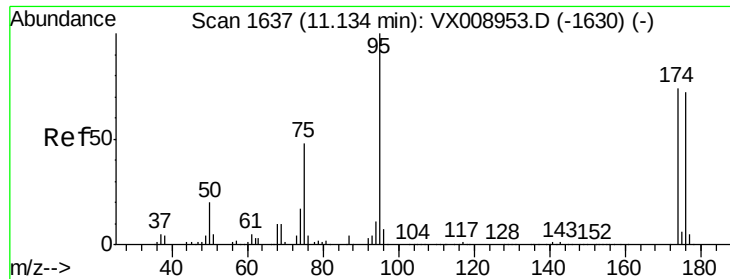
Tgt Ion: 88 Resp: 42
Ion Ratio Lower Upper
88 100
43 159.5 29.3 43.9#
58 0.0 62.6 93.8#



#50
Toluene-d8
Concen: 48.036 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009141.D
Acq: 24 Apr 2019 13:37

Tgt Ion: 98 Resp: 458599
Ion Ratio Lower Upper
98 100
100 64.2 51.4 77.2





#62

4-Bromofluorobenzene

Concen: 44.293 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009141.D

Acq: 24 Apr 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

S37-ER-2019-1

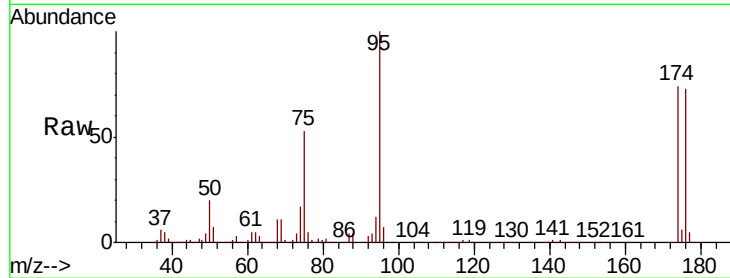
Tgt Ion: 95 Resp: 149270

Ion Ratio Lower Upper

95 100

174 79.4 0.0 159.6

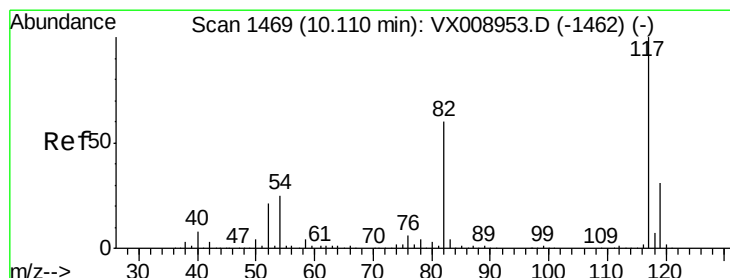
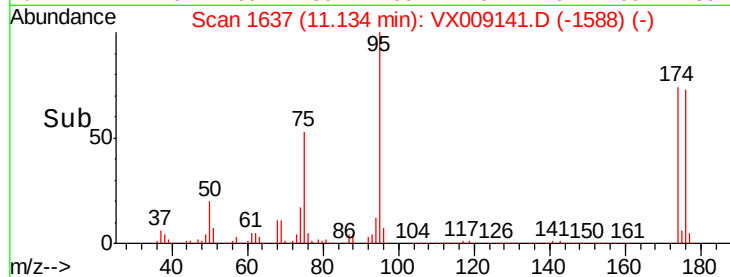
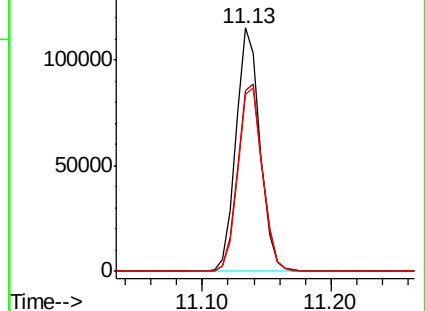
176 77.5 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008953.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008953.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009141.D

Acq: 24 Apr 2019 13:37

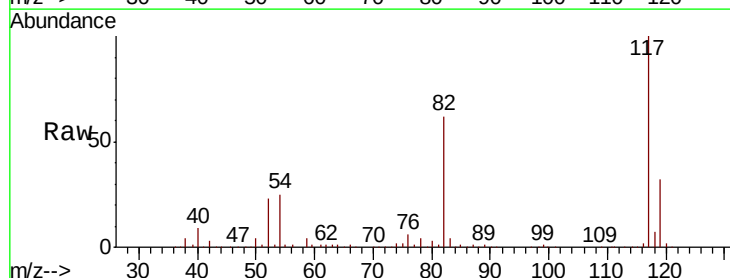
Tgt Ion: 117 Resp: 314516

Ion Ratio Lower Upper

117 100

82 61.9 48.2 72.4

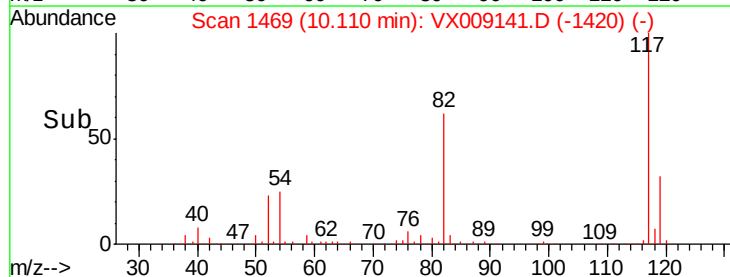
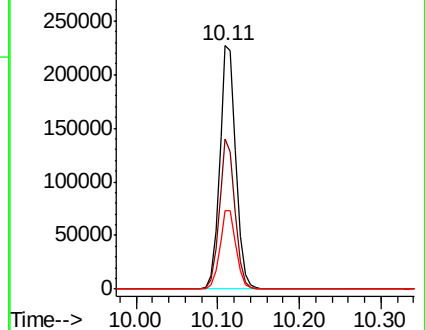
119 32.1 25.0 37.6

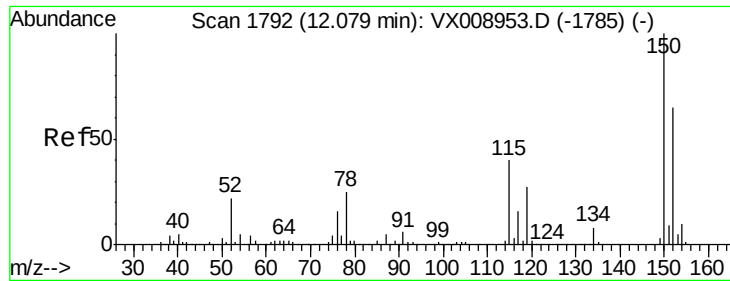


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008953.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008953.D (-1462) (-)



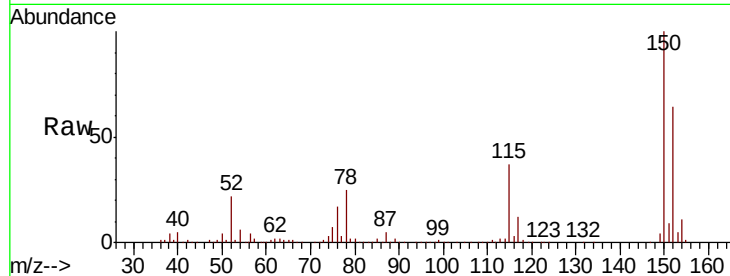


#72

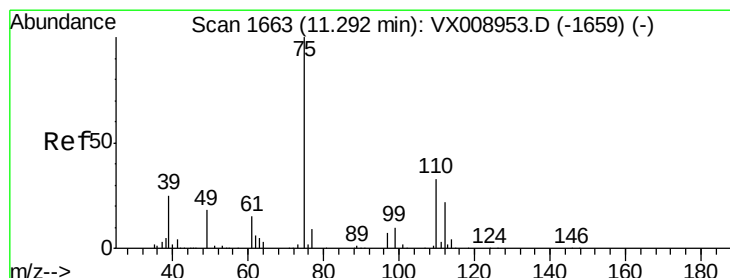
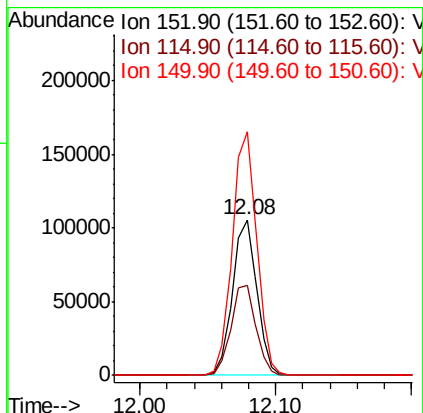
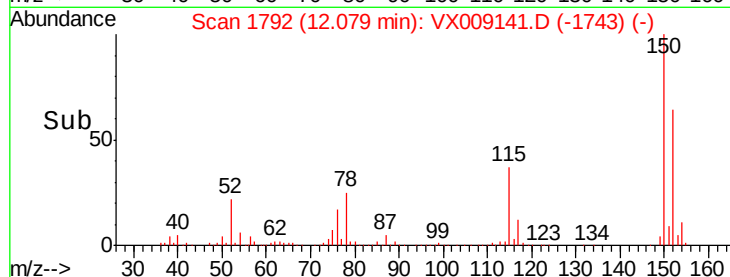
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009141.D
Acq: 24 Apr 2019 13:37

Instrument :
MSVOA_X
ClientSampled :
S37-ER-2019-1

Tgt Ion:152 Resp: 131058
Ion Ratio Lower Upper
152 100
115 59.8 41.4 124.2
150 157.4 0.0 349.8



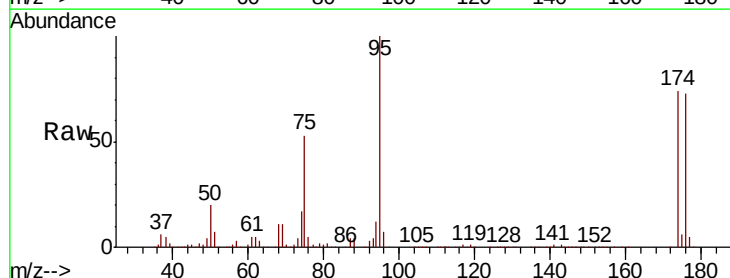
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



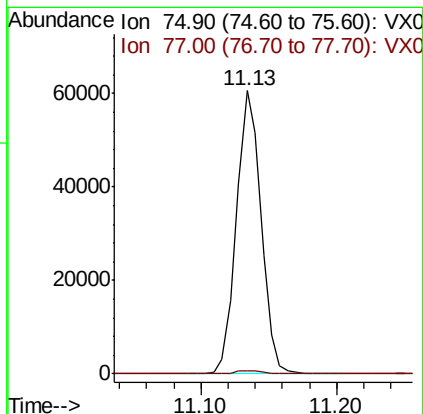
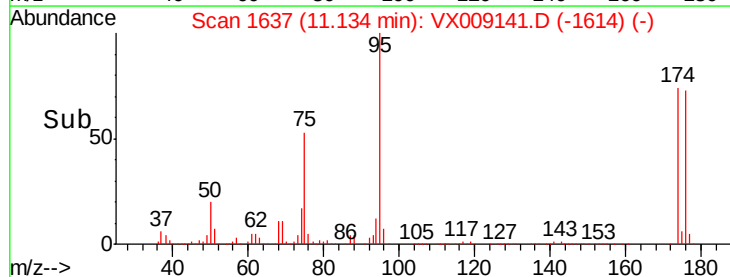
#76

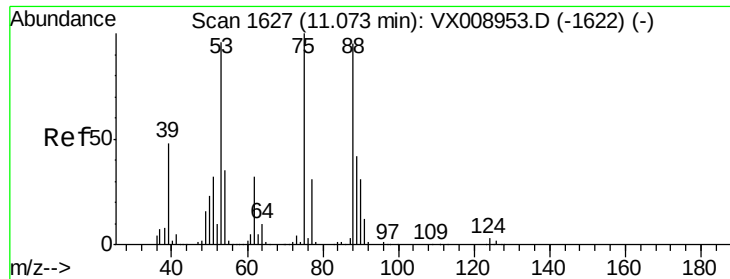
1,2,3-Trichloropropane
Concen: 23.883 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX009141.D
Acq: 24 Apr 2019 13:37

Tgt Ion: 75 Resp: 76430
Ion Ratio Lower Upper
75 100
77 1.3 22.7 68.0#



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: 61.314 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009141.D

Acq: 24 Apr 2019 13:37

Instrument :

MSVOA_X

ClientSampleId :

S37-ER-2019-1

Tgt Ion: 75 Resp: 76430

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#

