

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032519\
 Data File : VX008425.D
 Acq On : 25 Mar 2019 21:23
 Operator : JC/SP
 Sample : K1945-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T3-OZ(PRE)

Quant Time: Mar 26 06:05:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 04:58:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	227121	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	386728	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	324466	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132098	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	161967	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
35) Dibromofluoromethane	5.49	113	121477	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
50) Toluene-d8	8.71	98	477397	47.35	ug/l	0.00
Spiked Amount			Recovery	=	94.70%	
62) 4-Bromofluorobenzene	11.13	95	159590	42.71	ug/l	0.00
Spiked Amount			Recovery	=	85.42%	

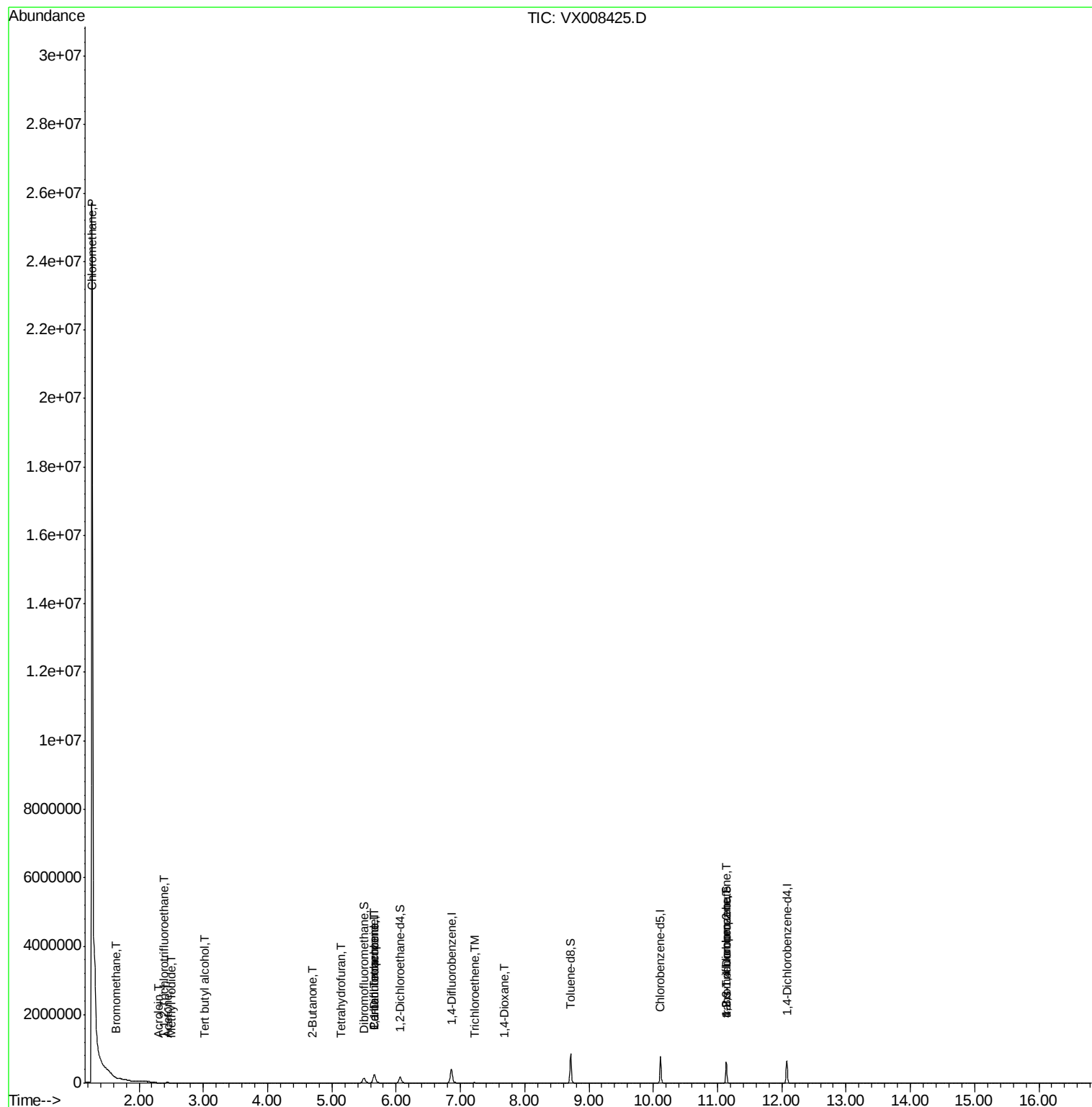
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.26	50	1044080	312.424	ug/l #	43
5) Bromomethane	1.65	94	1102	2.349	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.39	101	544	0.213	ug/l	88
10) Methyl Iodide	2.51	142	883	4.455	ug/l	98
11) Tert butyl alcohol	3.02	59	936	1.227	ug/l #	90
13) Acrolein	2.30	56	124	0.224	ug/l #	42
16) Acetone	2.44	43	10580	5.879	ug/l #	88
20) Methylene Chloride	2.85	84	467	Below Cal	#	61
21) trans-1,2-Dichloroethene	3.17	96	118	Below Cal	#	53
25) 2-Butanone	4.70	43	3297	1.143	ug/l #	90
29) Tetrahydrofuran	5.15	42	3043	1.600	ug/l	97
36) 1,1-Dichloropropene	5.66	75	19730	4.785	ug/l #	51
38) Carbon Tetrachloride	5.66	117	22786	6.622	ug/l #	15
44) Trichloroethene	7.21	130	1524	0.526	ug/l	99
49) 1,4-Dioxane	7.68	88	23	0.271	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	80441	20.483	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	80441	65.605	ug/l #	9

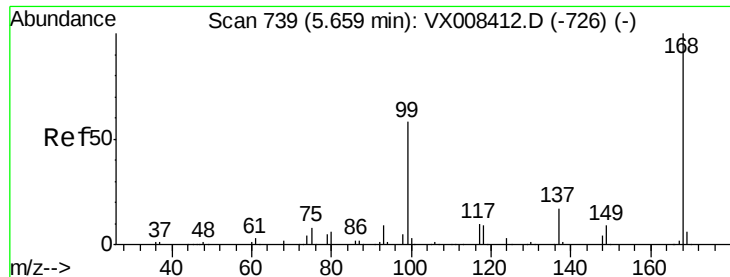
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX008425.D

Acq: 25 Mar 2019 21:23

Instrument :

MSVOA_X

ClientSampleId :

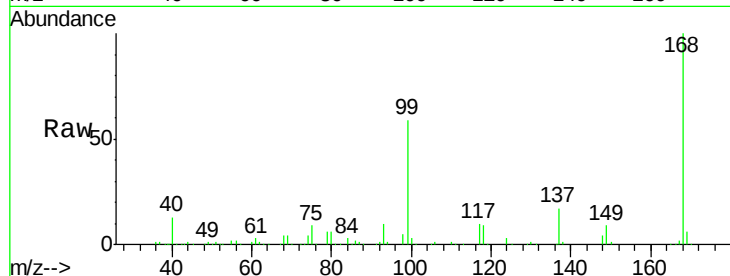
M4-T3-OZ(PRE)

Tot Ion:168 Resp: 227121

Ion Ratio Lower Upper

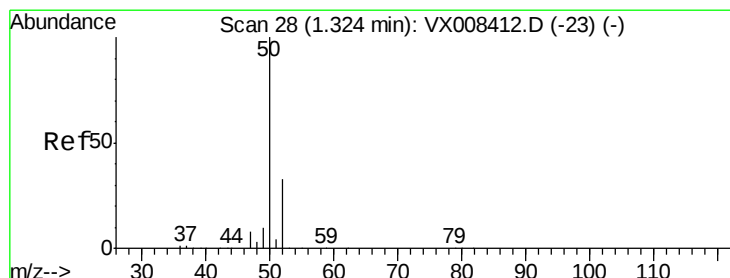
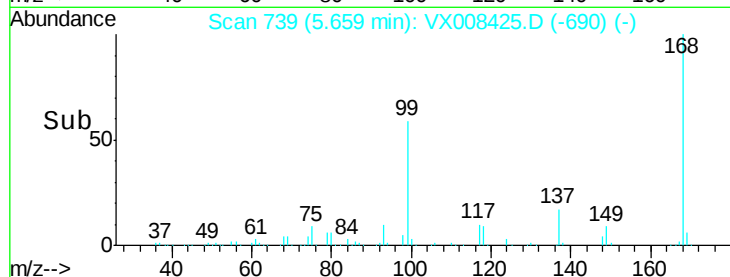
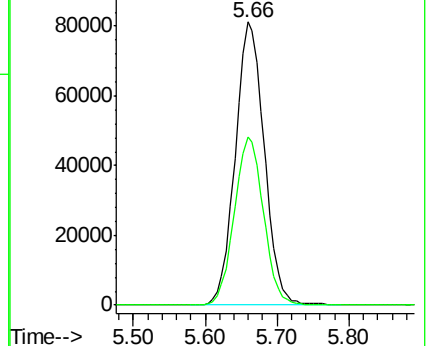
168 100

99 59.4 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 312.424 ug/l

RT: 1.26 min Scan# 18

Delta R.T. -0.06 min

Lab File: VX008425.D

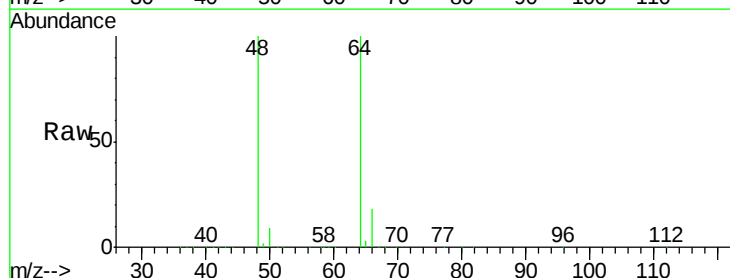
Acq: 25 Mar 2019 21:23

Tgt Ion: 50 Resp: 1044080

Ion Ratio Lower Upper

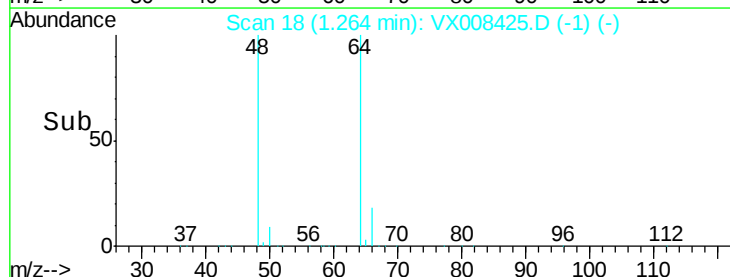
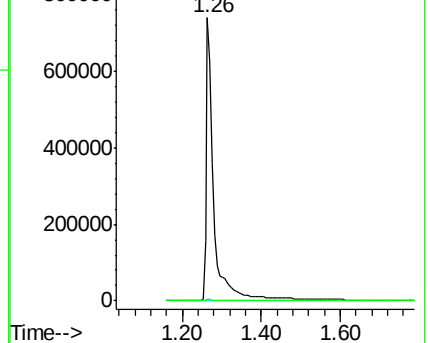
50 100

52 0.5 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 2.349 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008425.D

Acq: 25 Mar 2019 21:23

Instrument :

MSVOA_X

ClientSampleId :

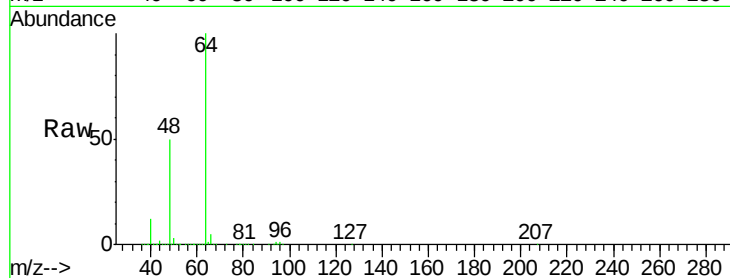
M4-T3-OZ(PRE)

Tot Ion: 94 Resp: 1102

Ion Ratio Lower Upper

94 100

96 97.5 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX008412.D (-70) (-)

Ion 95.90 (95.60 to 96.60): VX008412.D (-70) (-)

1000

800

600

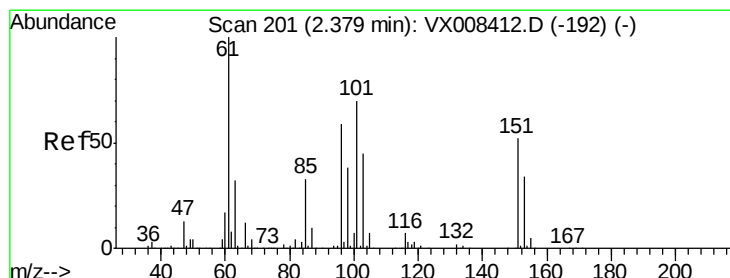
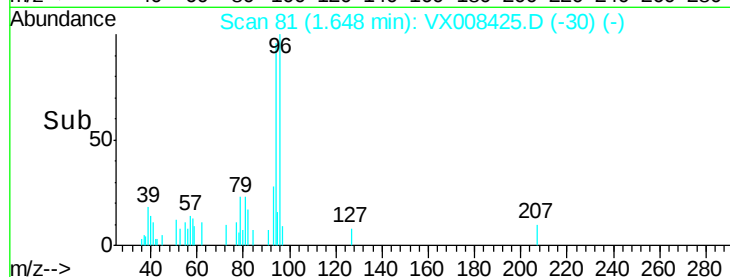
400

200

0

1.60 1.65 1.70

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.213 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX008425.D

Acq: 25 Mar 2019 21:23

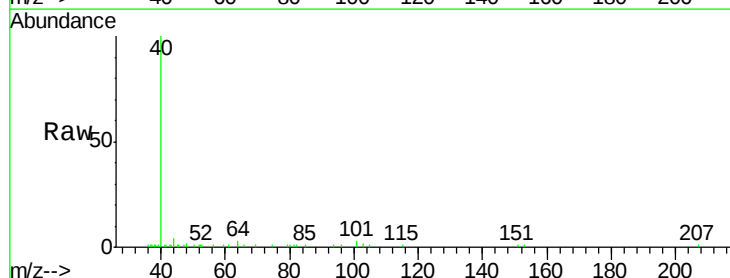
Tgt Ion: 101 Resp: 544

Ion Ratio Lower Upper

101 100

85 50.7 36.0 54.0

151 62.7 59.2 88.8



Abundance Ion 100.90 (100.60 to 101.60): VX008412.D (-192) (-)

Ion 84.90 (84.60 to 85.60): VX008412.D (-192) (-)

Ion 150.80 (150.50 to 151.50): VX008412.D (-192) (-)

400

300

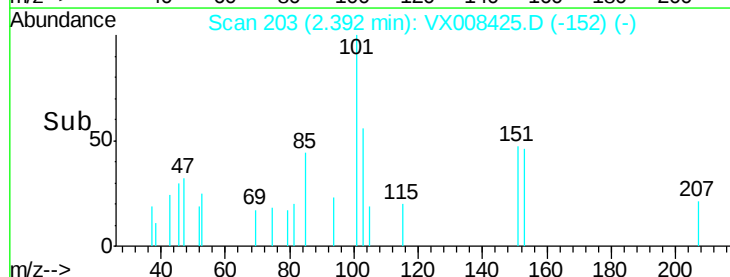
200

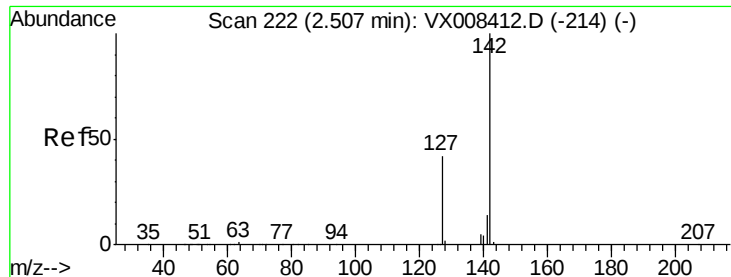
100

0

2.35 2.40

Time-->

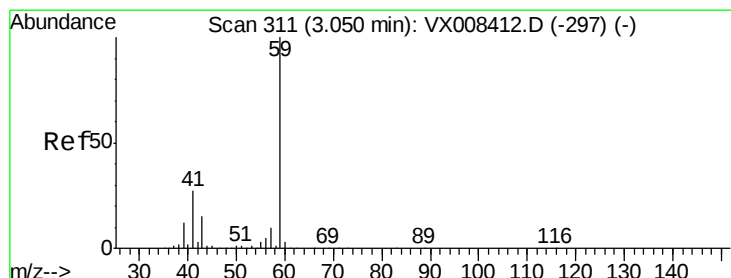
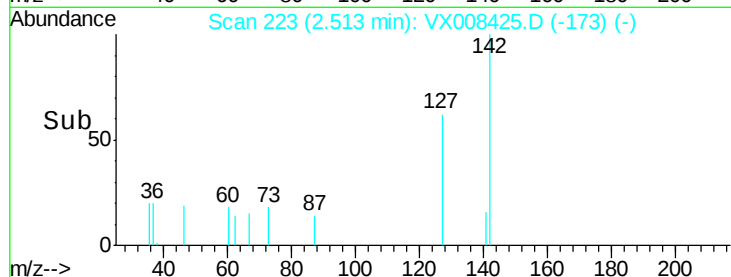
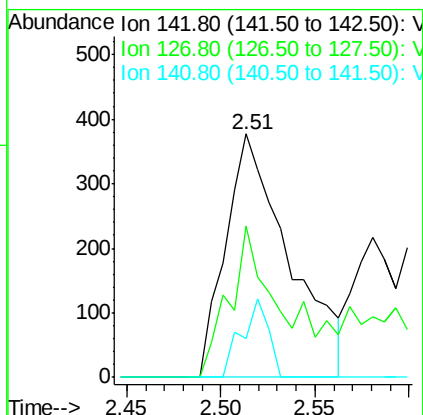
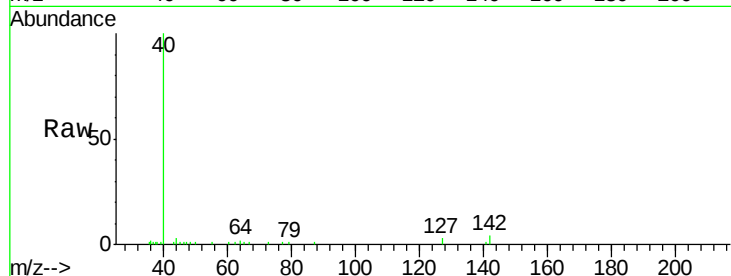




#10
Methyl Iodide
Concen: 4.455 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008425.D
Acq: 25 Mar 2019 21:23

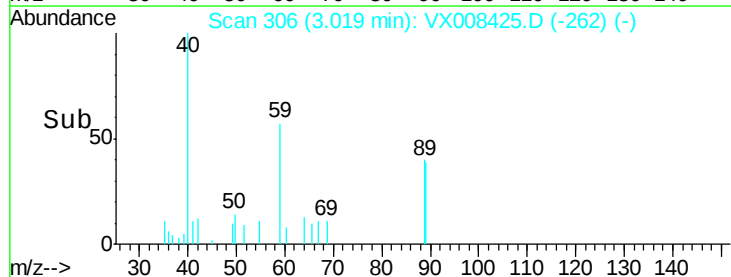
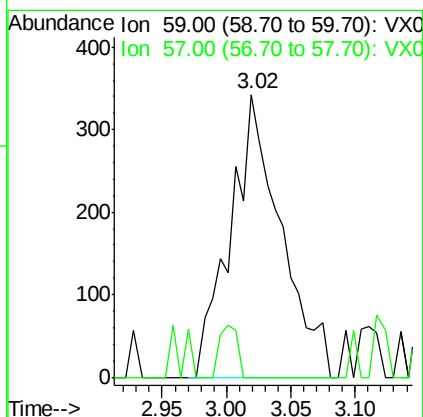
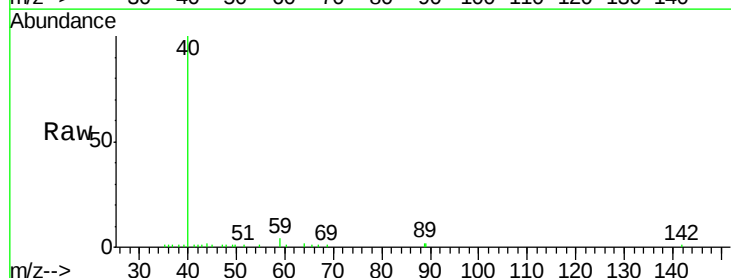
Instrument :
MSVOA_X
ClientSampleId :
M4-T3-OZ(PRE)

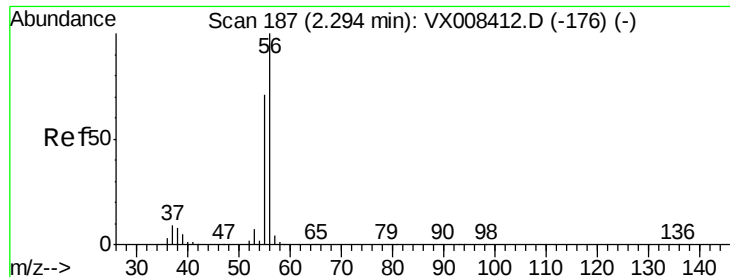
Tot Ion:142 Resp: 883
Ion Ratio Lower Upper
142 100
127 40.9 33.6 50.4
141 13.6 11.3 16.9



#11
Tert butyl alcohol
Concen: 1.227 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX008425.D
Acq: 25 Mar 2019 21:23

Tgt Ion: 59 Resp: 936
Ion Ratio Lower Upper
59 100
57 6.7 8.2 12.4#





#13

Acrolein

Concen: 0.224 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX008425.D

Acq: 25 Mar 2019 21:23

Instrument :

MSVOA_X

ClientSampleId :

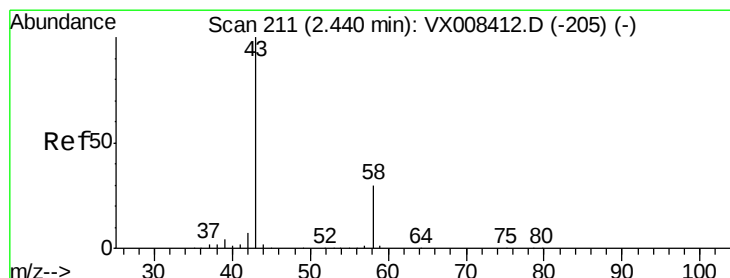
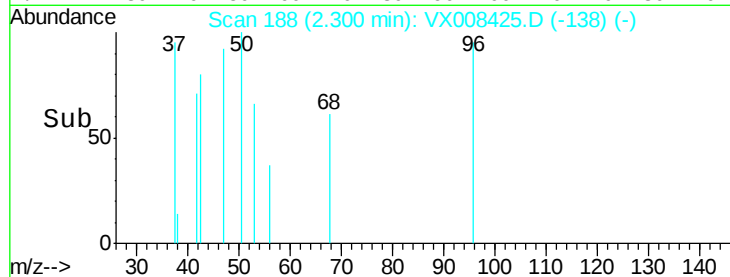
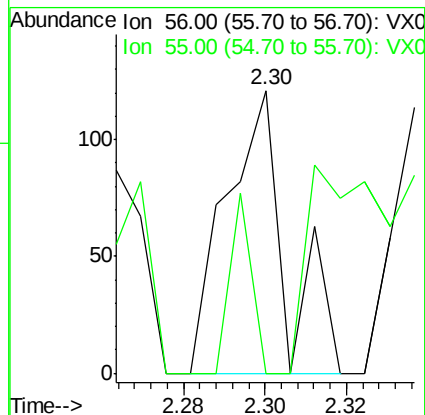
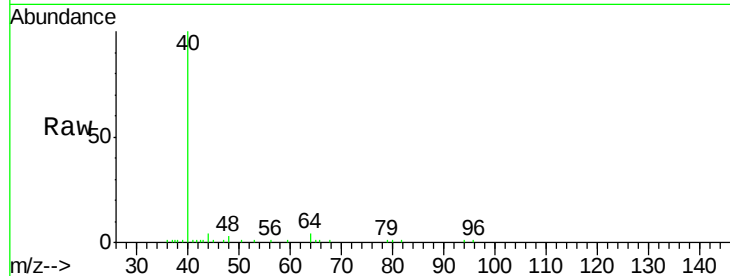
M4-T3-OZ(PRE)

Tot Ion: 56 Resp: 124

Ion Ratio Lower Upper

56 100

55 22.6 56.5 84.7#



#16

Acetone

Concen: 5.879 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008425.D

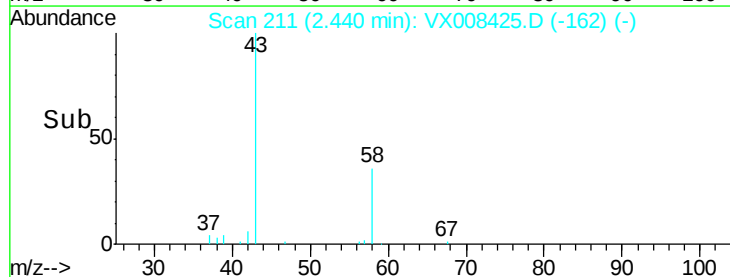
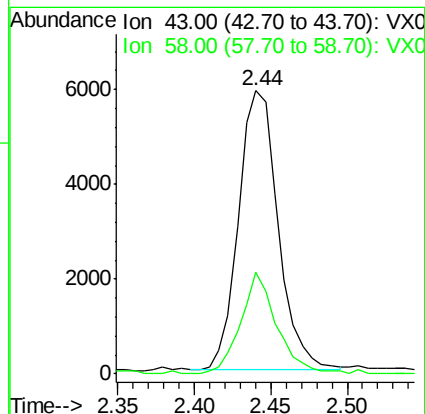
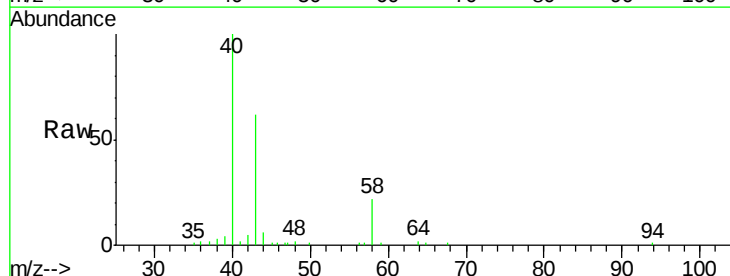
Acq: 25 Mar 2019 21:23

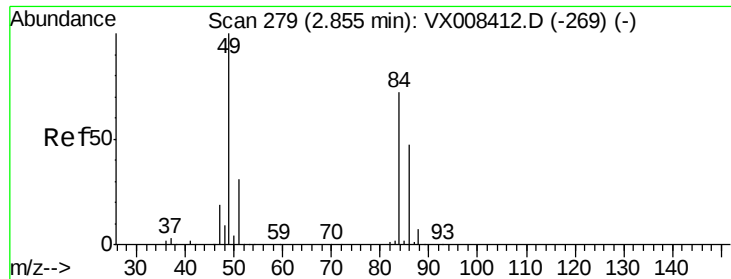
Tgt Ion: 43 Resp: 10580

Ion Ratio Lower Upper

43 100

58 36.5 24.2 36.2#





#20

Methvlene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX008425.D

Acq: 25 Mar 2019 21:23

Instrument :

MSVOA_X

ClientSampleId :

M4-T3-OZ(PRE)

Tot Ion: 84 Resp: 467

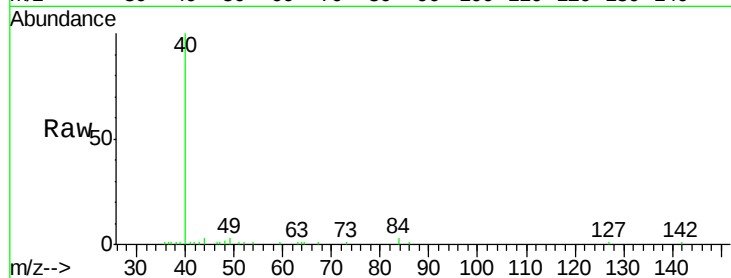
Ion Ratio Lower Upper

84 100

49 71.3 110.6 165.8#

51 43.4 33.9 50.9

86 41.9 52.2 78.2#

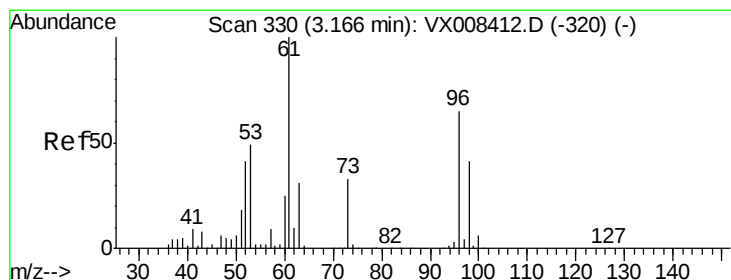
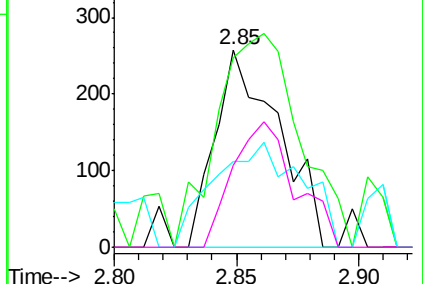
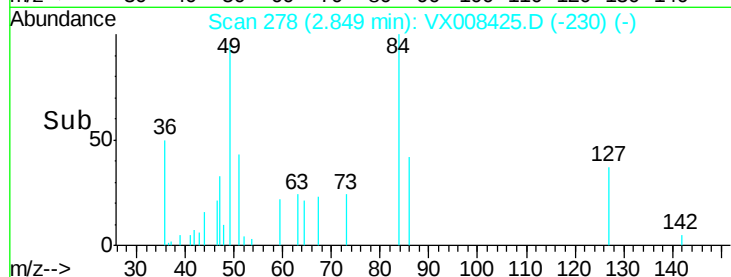


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: Below Cal

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX008425.D

Acq: 25 Mar 2019 21:23

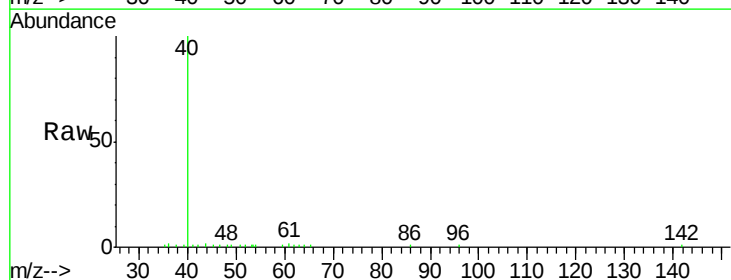
Tgt Ion: 96 Resp: 118

Ion Ratio Lower Upper

96 100

61 194.7 122.6 184.0#

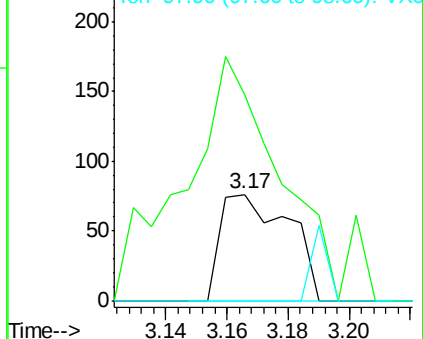
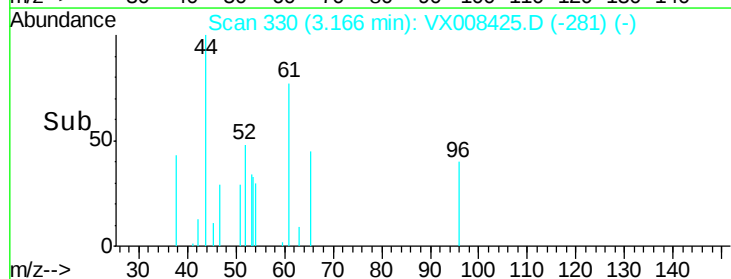
98 0.0 50.9 76.3#

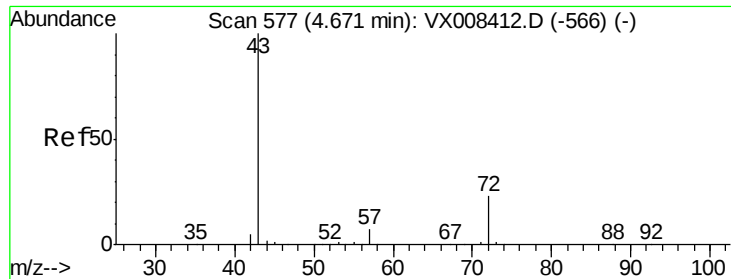


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#25

2-Butanone

Concen: 1.143 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX008425.D

Acq: 25 Mar 2019 21:23

Instrument :

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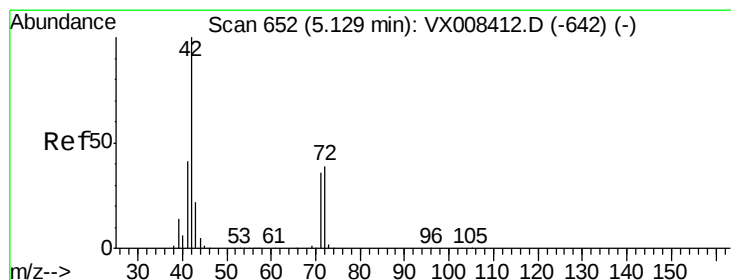
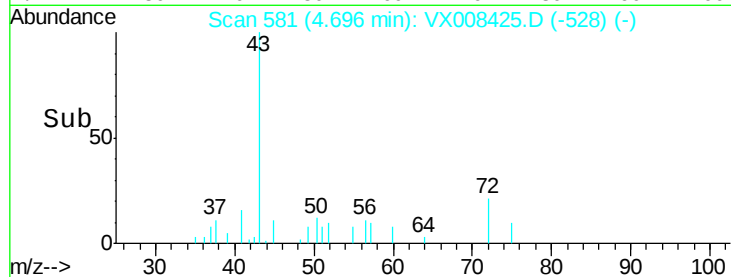
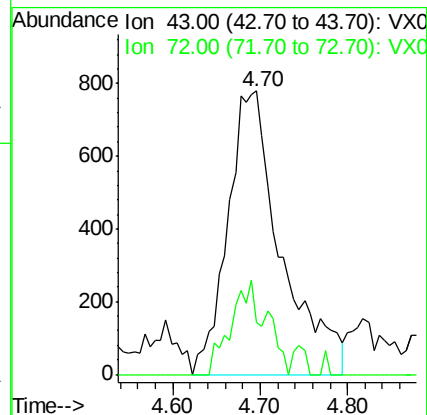
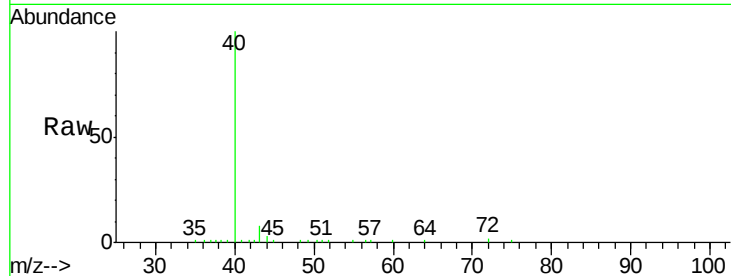
M4-T3-OZ(PRE)

Tot Ion: 43 Resp: 3297

Ion Ratio Lower Upper

43 100

72 18.5 18.6 28.0#



#29

Tetrahydrofuran

Concen: 1.600 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX008425.D

Acq: 25 Mar 2019 21:23

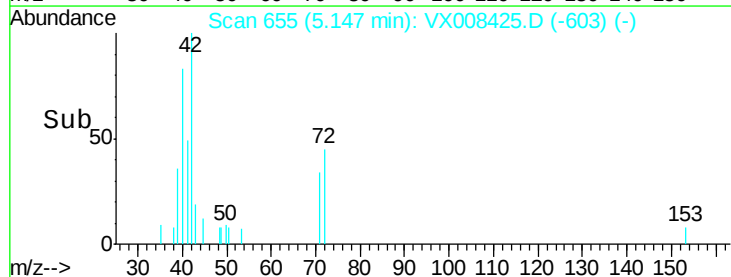
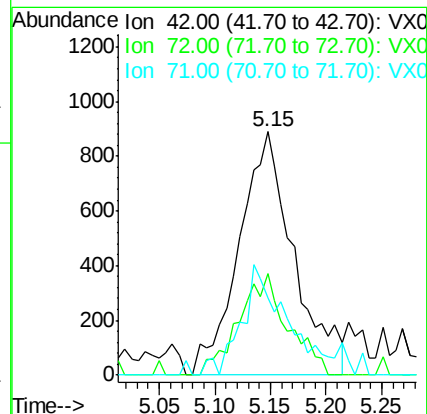
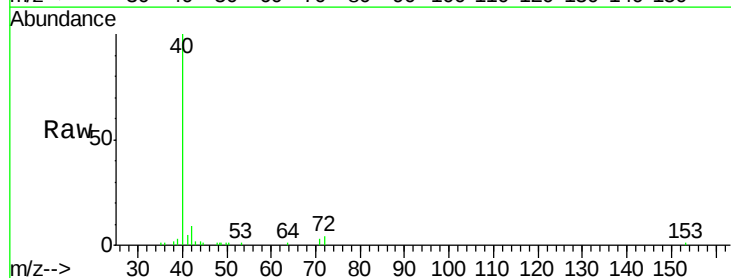
Tgt Ion: 42 Resp: 3043

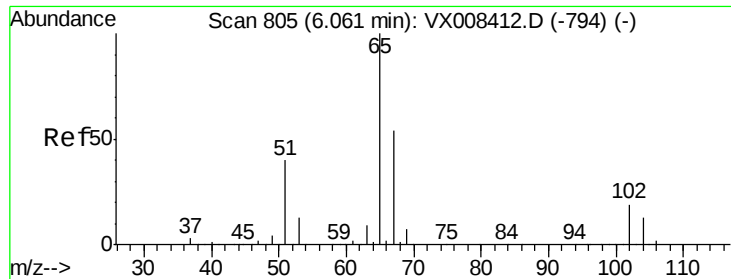
Ion Ratio Lower Upper

42 100

72 37.3 31.4 47.2

71 38.1 29.4 44.2

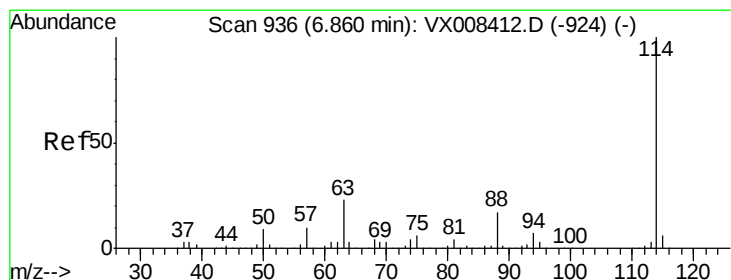
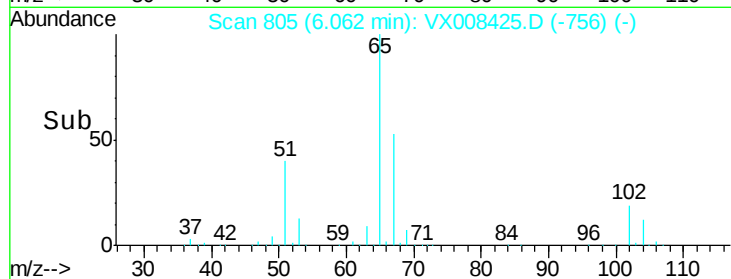
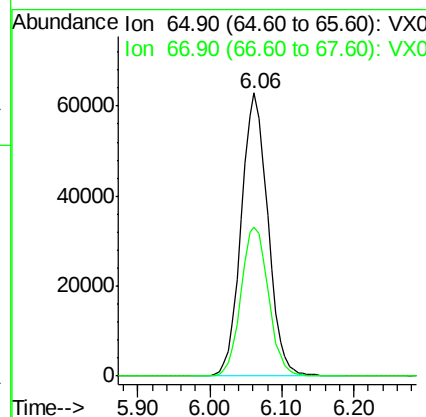
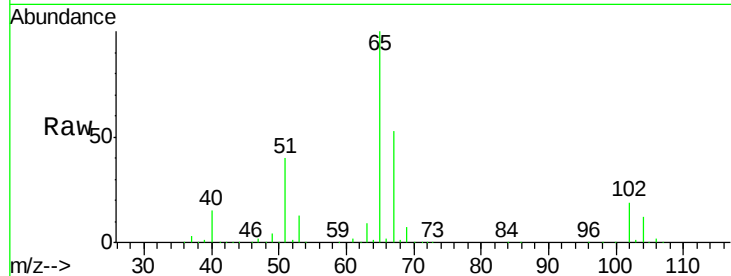




#33
 1,2-Dichloroethane-d4
 Concen: 47.039 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008425.D
 Acq: 25 Mar 2019 21:23

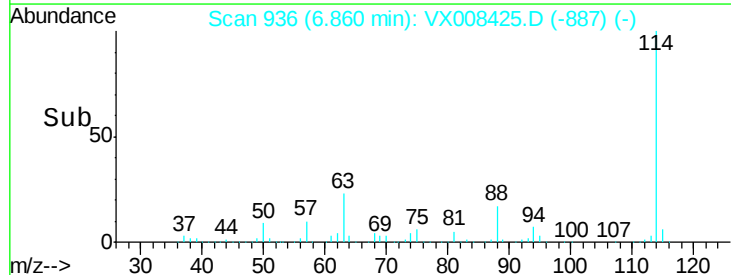
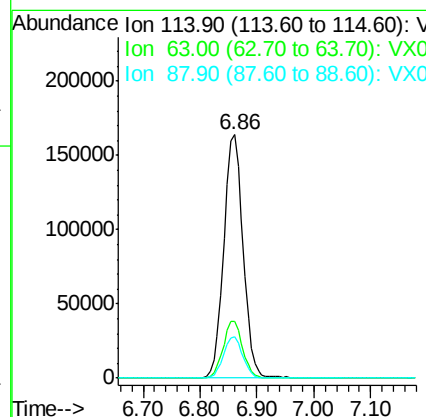
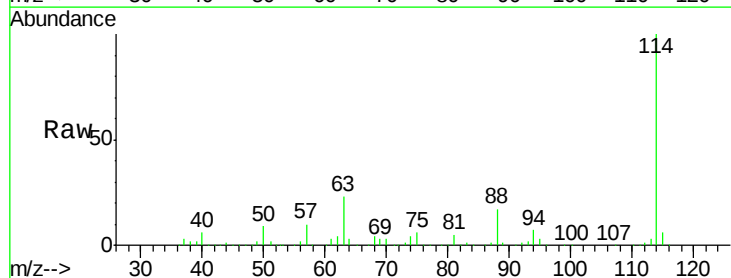
Instrument :
 MSVOA_X
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 M4-T3-OZ(PRE)

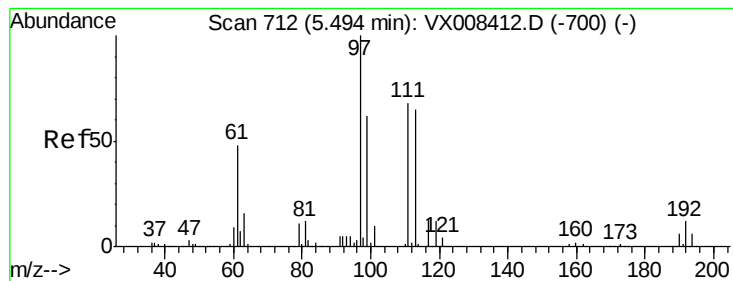
Tot Ion: 65 Resp: 161967
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008425.D
 Acq: 25 Mar 2019 21:23

Tgt Ion: 114 Resp: 386728
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 46.4
 88 16.8 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.174 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX008425.D

Acq: 25 Mar 2019 21:23

Instrument :

MSVOA_X

ClientSampleId :

M4-T3-OZ(PRE)

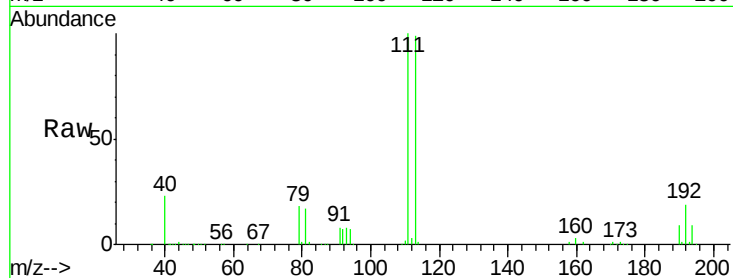
Tot Ion:113 Resp: 121477

Ion Ratio Lower Upper

113 100

111 101.9 83.0 124.4

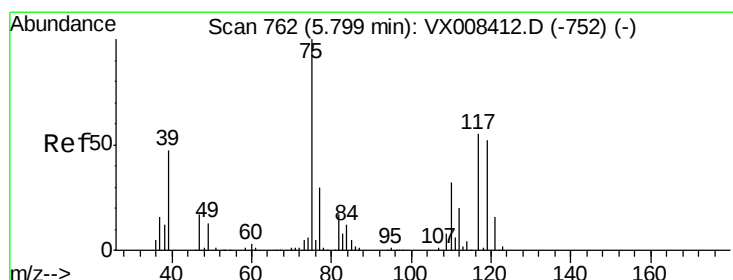
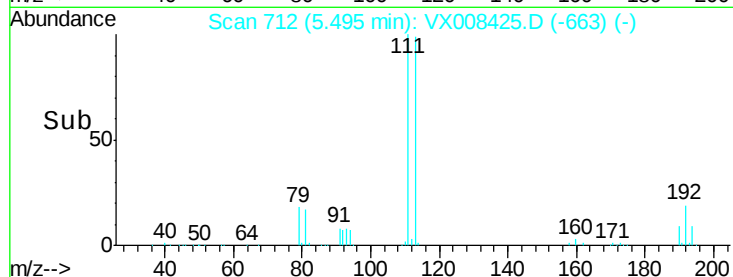
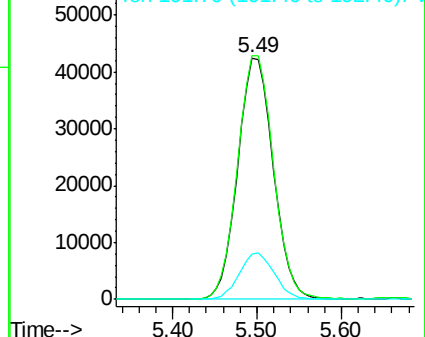
192 19.0 15.6 23.4



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: 4.785 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008425.D

Acq: 25 Mar 2019 21:23

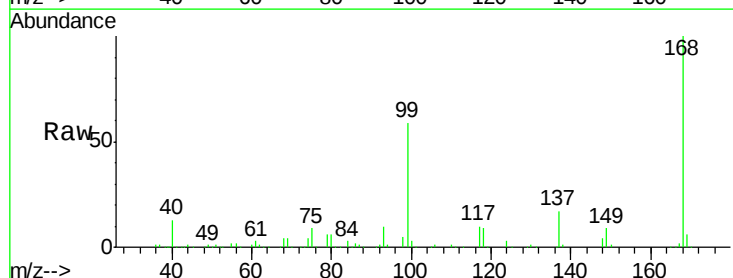
Tgt Ion: 75 Resp: 19730

Ion Ratio Lower Upper

75 100

110 8.6 16.6 49.7#

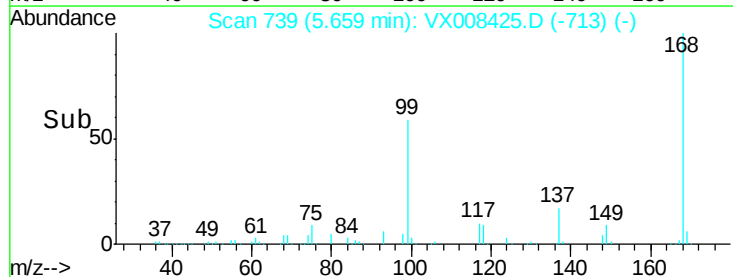
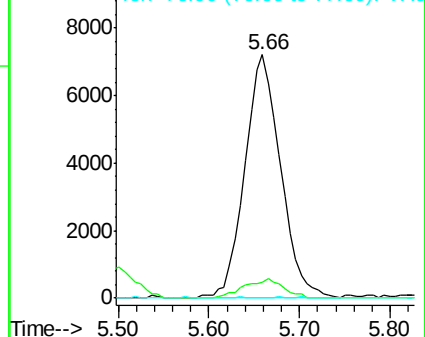
77 0.1 24.2 36.2#

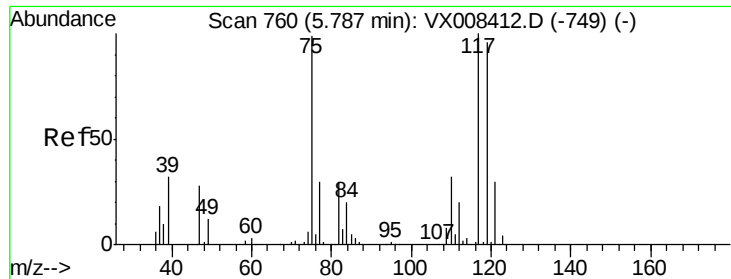


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.622 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008425.D

Acq: 25 Mar 2019 21:23

Instrument :

MSVOA_X

ClientSampleId :

M4-T3-OZ(PRE)

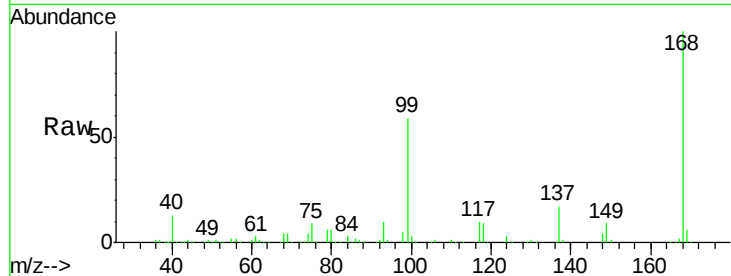
Tot Ion:117 Resp: 22786

Ion Ratio Lower Upper

117 100

119 4.3 76.7 115.1#

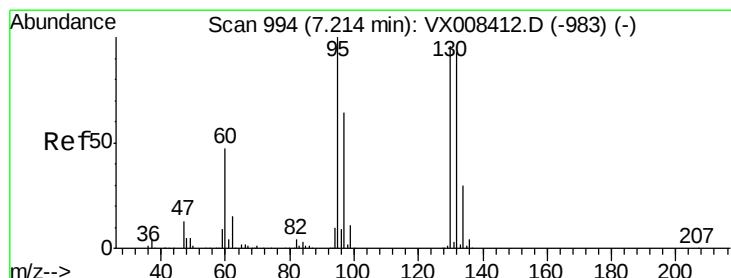
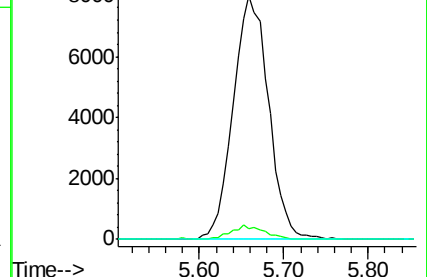
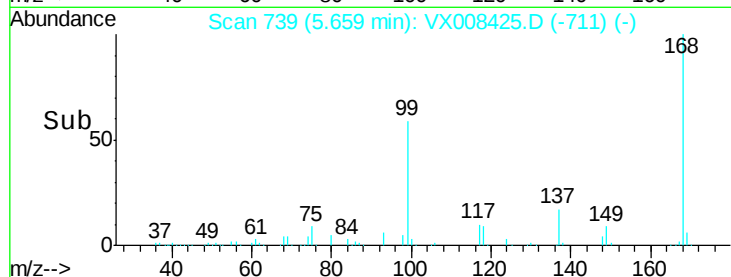
121 0.0 24.3 36.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.526 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008425.D

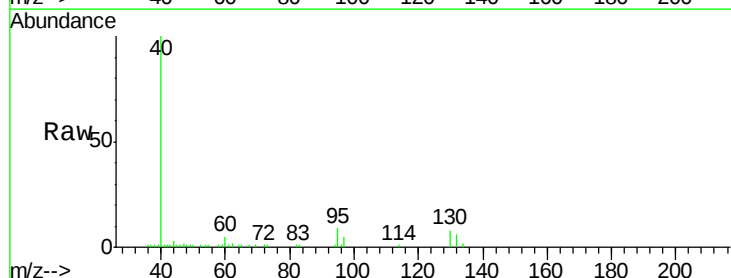
Acq: 25 Mar 2019 21:23

Tgt Ion:130 Resp: 1524

Ion Ratio Lower Upper

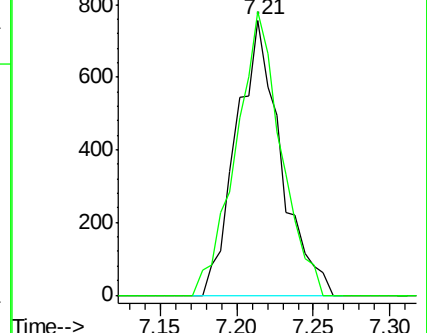
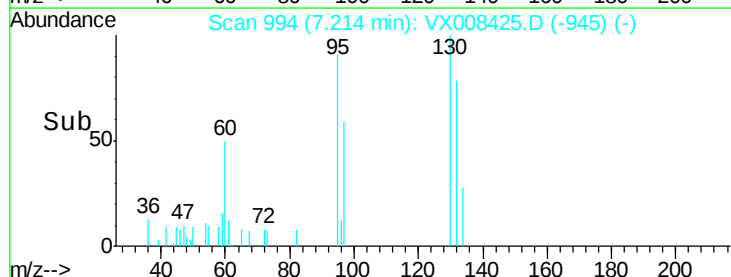
130 100

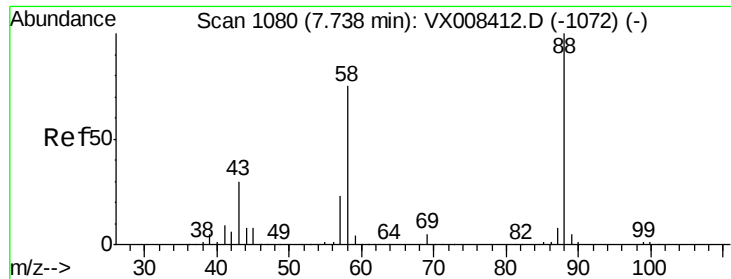
95 102.9 0.0 208.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

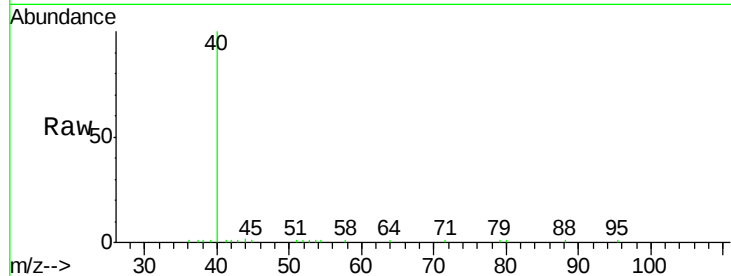




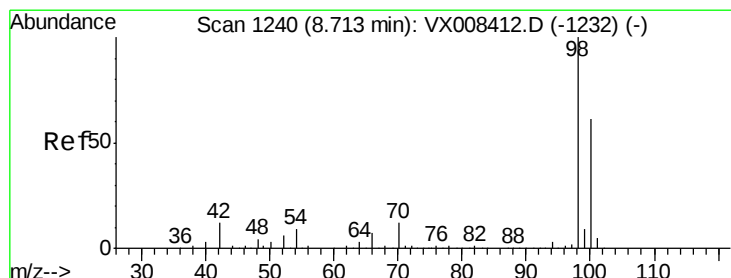
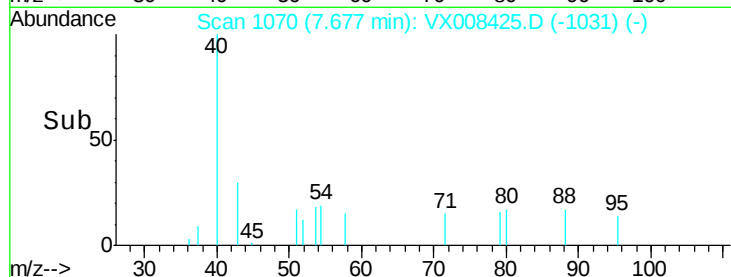
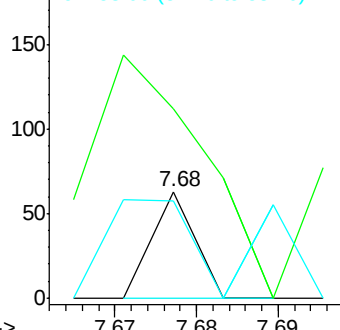
#49
1,4-Dioxane
Concen: 0.271 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.06 min
Lab File: VX008425.D
Acq: 25 Mar 2019 21:23

Instrument :
MSVOA_X
ClientSampleId :
M4-T3-OZ(PRE)

Tot Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 613.0 28.6 43.0#
58 269.6 63.0 94.4#

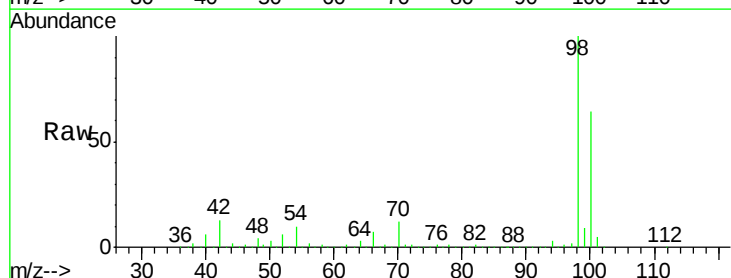


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

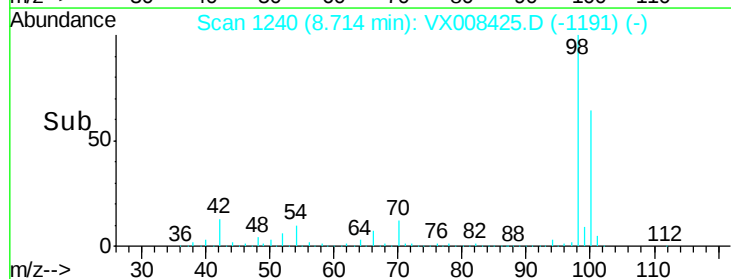
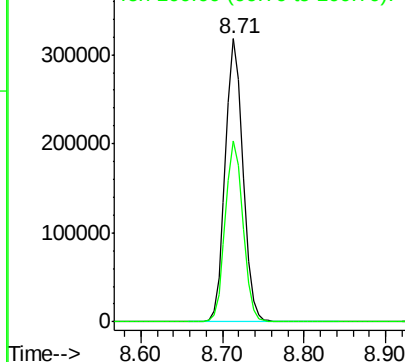


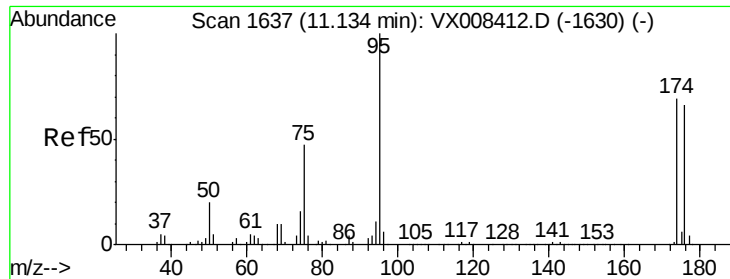
#50
Toluene-d8
Concen: 47.347 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008425.D
Acq: 25 Mar 2019 21:23

Tgt Ion: 98 Resp: 477397
Ion Ratio Lower Upper
98 100
100 64.0 51.1 76.7



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

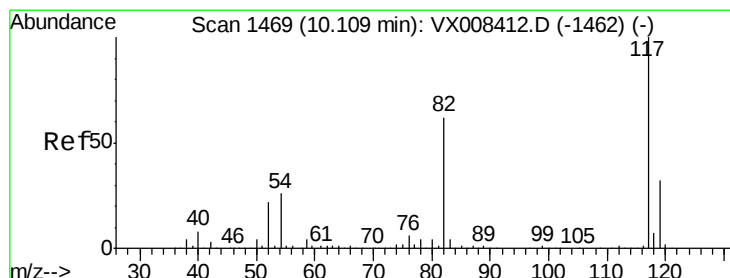
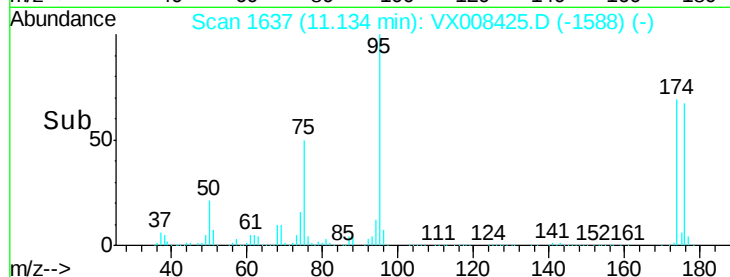
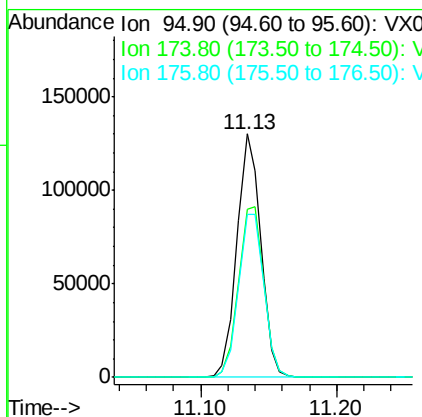
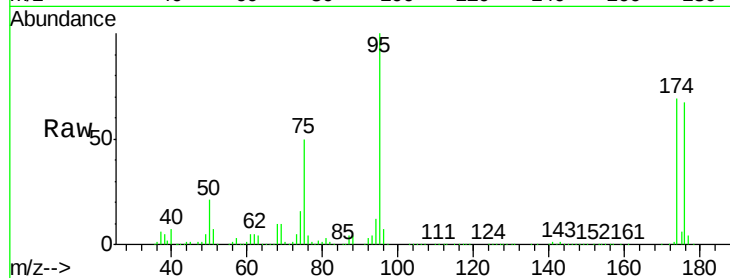




#62
4-Bromofluorobenzene
Concen: 42.712 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008425.D
Acq: 25 Mar 2019 21:23

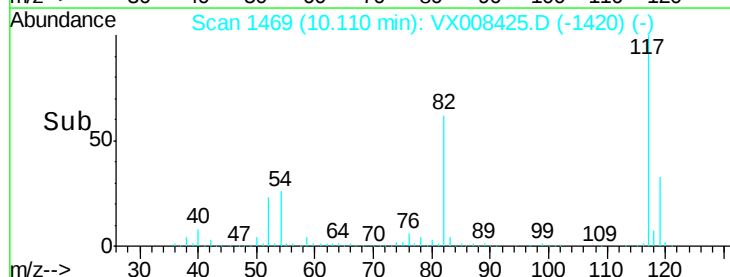
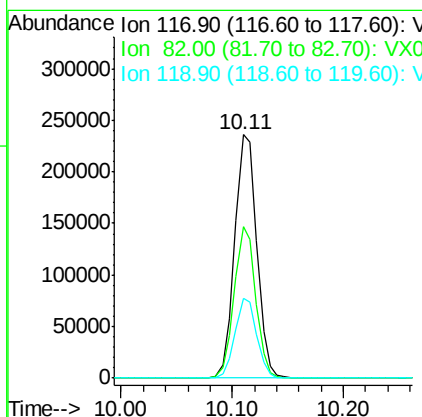
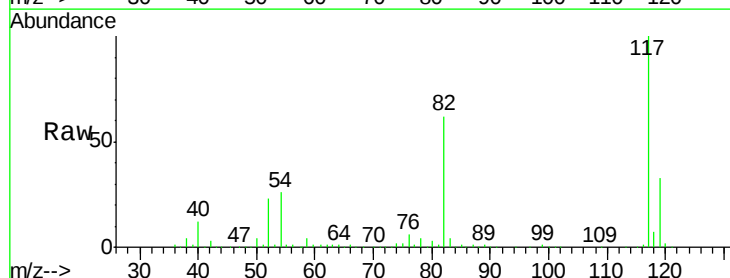
Instrument :
MSVOA_X
ClientSampleId :
M4-T3-OZ(PRE)

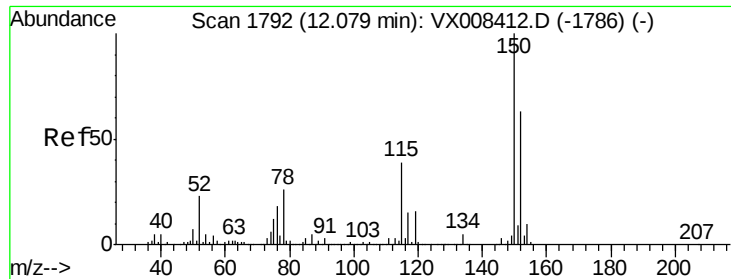
Tot Ion: 95 Resp: 159590
Ion Ratio Lower Upper
95 100
174 74.0 0.0 147.2
176 71.4 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008425.D
Acq: 25 Mar 2019 21:23

Tgt Ion: 117 Resp: 324466
Ion Ratio Lower Upper
117 100
82 62.3 49.4 74.2
119 32.6 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008425.D

Acq: 25 Mar 2019 21:23

Instrument :

MSVOA_X

ClientSampleId :

M4-T3-OZ(PRE)

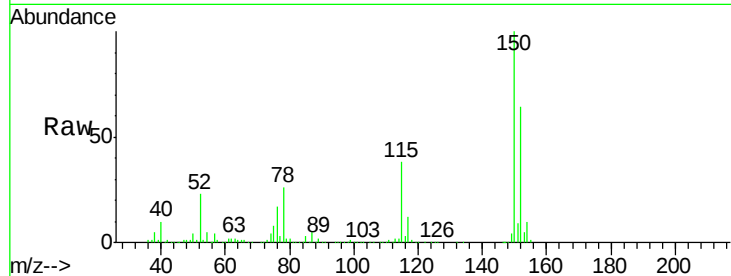
Tot Ion:152 Resp: 132098

Ion Ratio Lower Upper

152 100

115 61.2 43.5 130.5

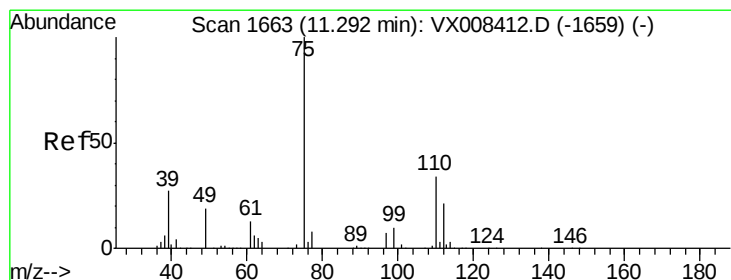
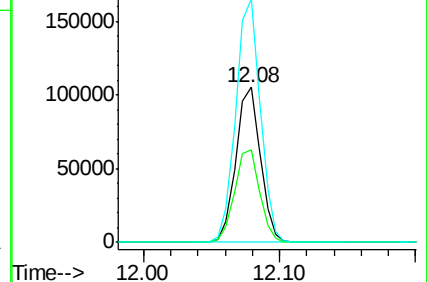
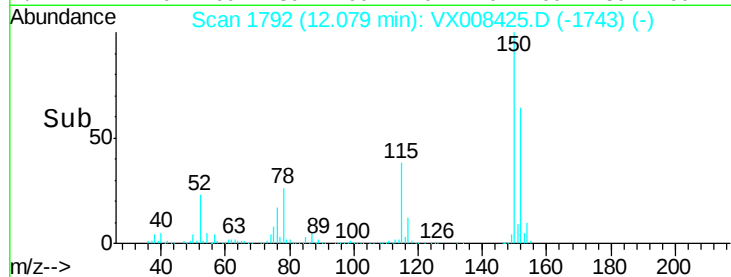
150 157.1 0.0 348.8



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: 20.483 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008425.D

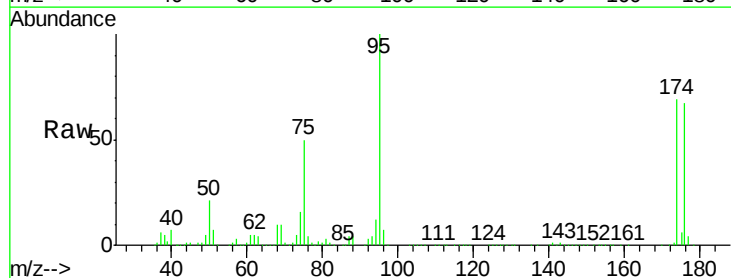
Acq: 25 Mar 2019 21:23

Tgt Ion: 75 Resp: 80441

Ion Ratio Lower Upper

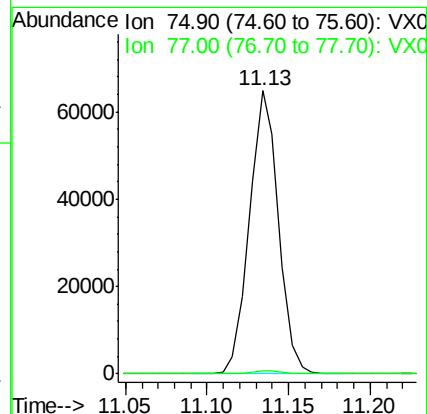
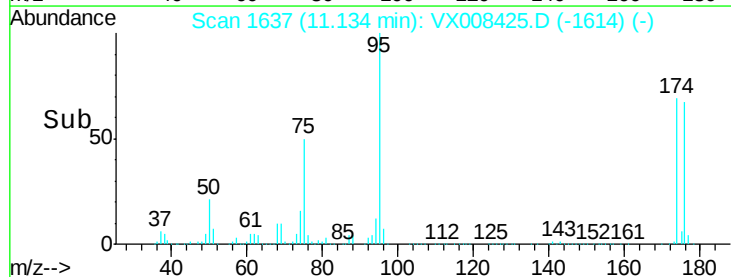
75 100

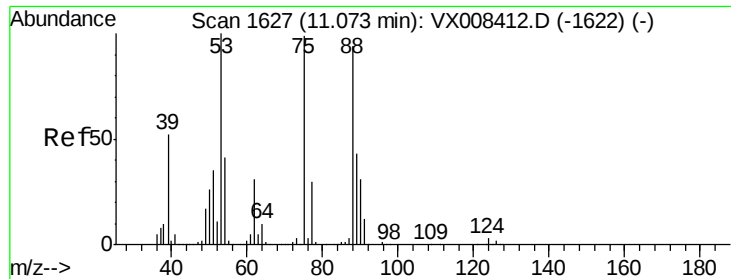
77 1.3 21.9 65.7#



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: 65.605 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008425.D

Acq: 25 Mar 2019 21:23

Instrument :

MSVOA_X

ClientSampleId :

M4-T3-OZ(PRE)

Tot Ion: 75 Resp: 80441

Ion Ratio Lower Upper

75 100

53 0.1 82.1 123.1#

89 0.0 34.6 52.0#

