

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072919\
 Data File : VX011145.D
 Acq On : 29 Jul 2019 15:02
 Operator : JC/SP
 Sample : K4018-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0414

Quant Time: Jul 30 05:06:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	180217	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	290990	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	272109	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	126939	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	100955	52.66	ug/l	0.00
Spiked Amount			Recovery	=	105.32%	
35) Dibromofluoromethane	5.50	113	91218	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
50) Toluene-d8	8.71	98	350388	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
62) 4-Bromofluorobenzene	11.13	95	124223	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	

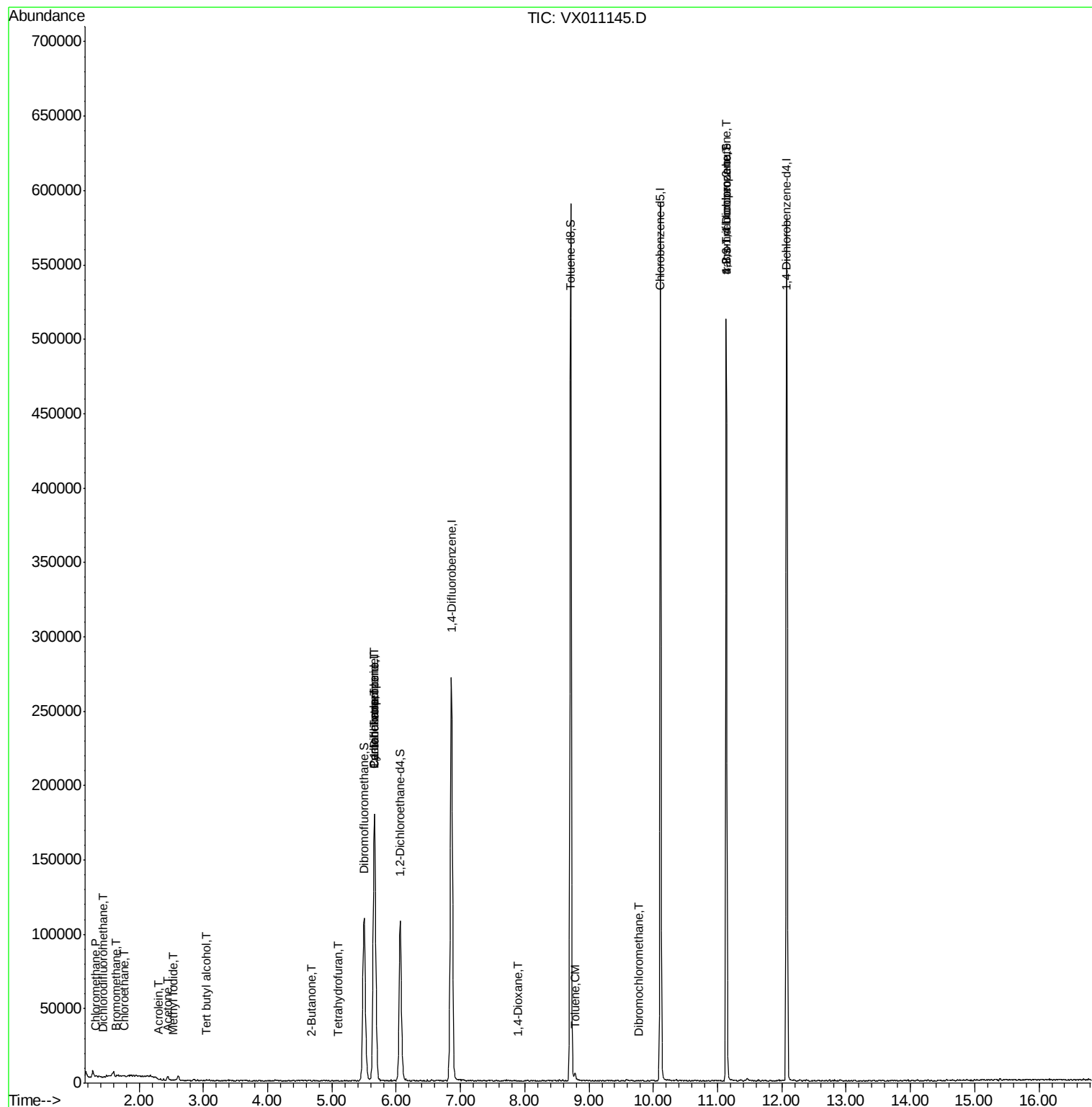
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.43	85	20	0.557	ug/l #	43
3) Chloromethane	1.33	50	388	0.234	ug/l #	20
5) Bromomethane	1.65	94	541	0.568	ug/l #	76
6) Chloroethane	1.76	64	594	0.553	ug/l #	50
10) Methyl Iodide	2.53	142	445	0.208	ug/l #	90
11) Tert butyl alcohol	3.05	59	535	1.198	ug/l #	91
13) Acrolein	2.30	56	170	0.659	ug/l #	15
16) Acetone	2.45	43	2945	3.401	ug/l	93
25) 2-Butanone	4.68	43	319	0.257	ug/l #	46
29) Tetrahydrofuran	5.10	42	174	0.221	ug/l #	37
31) Cyclohexane	5.65	56	3197	1.228	ug/l #	42
36) 1,1-Dichloropropene	5.67	75	12204	5.106	ug/l #	50
38) Carbon Tetrachloride	5.66	117	17058	6.849	ug/l #	18
49) 1,4-Dioxane	7.89	88	44	0.802	ug/l #	5
52) Toluene	8.78	92	1467	0.305	ug/l	97
60) Dibromochloromethane	9.77	129	22	2.537	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	62007	27.069	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	62007	67.102	ug/l #	11

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

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QLast Update : Wed Jul 24 05:39:23 2019
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: VX011145.D

Acq: 29 Jul 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

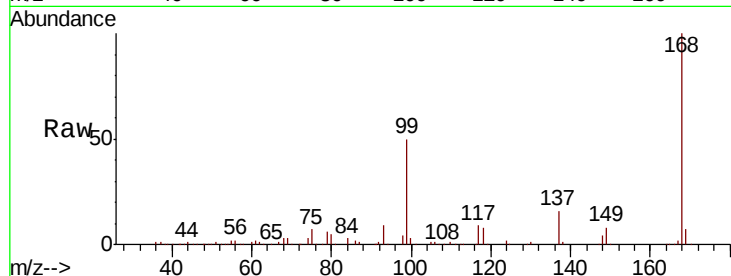
SU19-MSW0414

Tot Ion:168 Resp: 180217

Ion Ratio Lower Upper

168 100

99 49.9 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

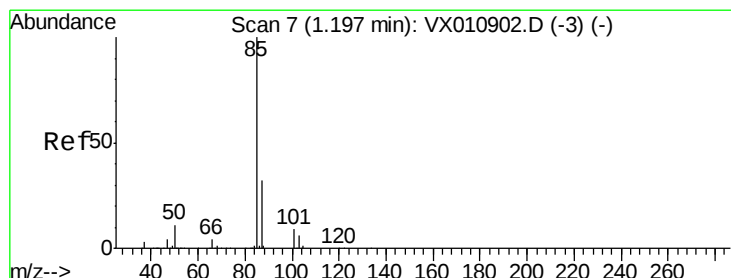
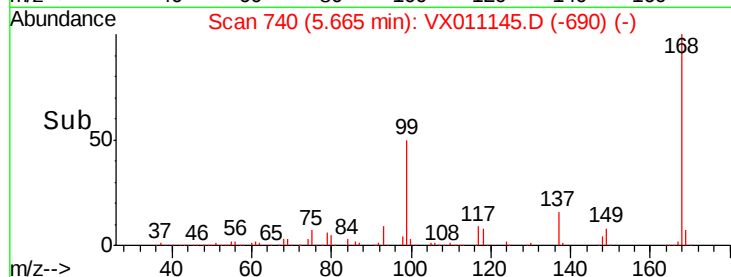
40000

20000

0

5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.557 ug/l

RT: 1.43 min Scan# 45

Delta R.T. 0.23 min

Lab File: VX011145.D

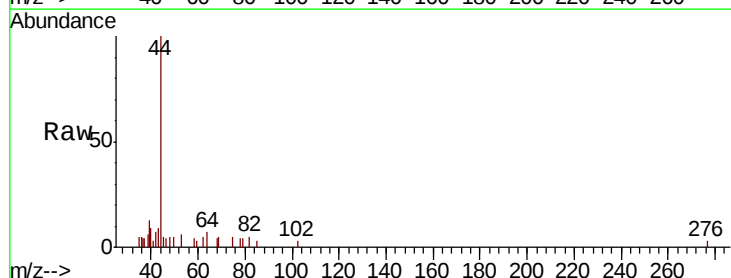
Acq: 29 Jul 2019 15:02

Tgt Ion: 85 Resp: 20

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.43

60

50

40

30

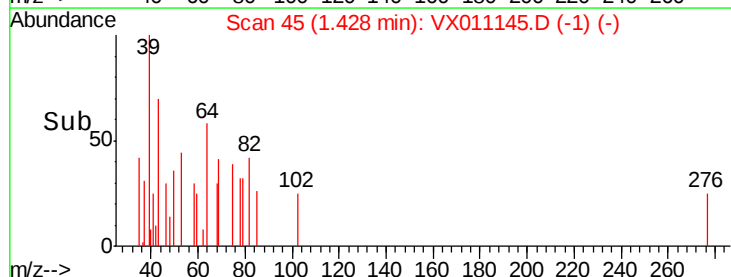
20

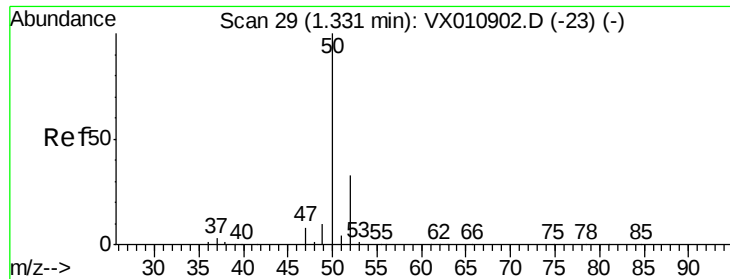
10

0

1.41 1.42 1.43 1.44

Time-->





#3

Chloromethane

Concen: 0.234 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011145.D

Acq: 29 Jul 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

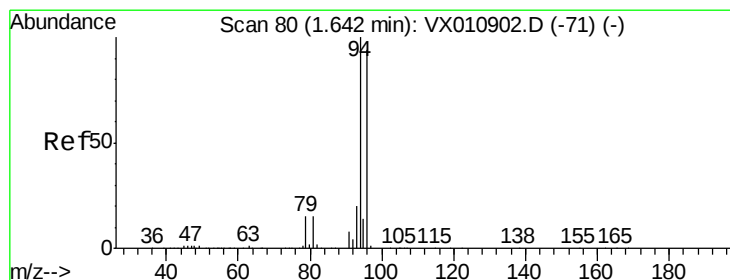
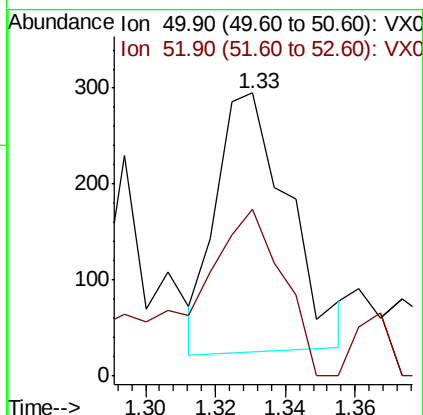
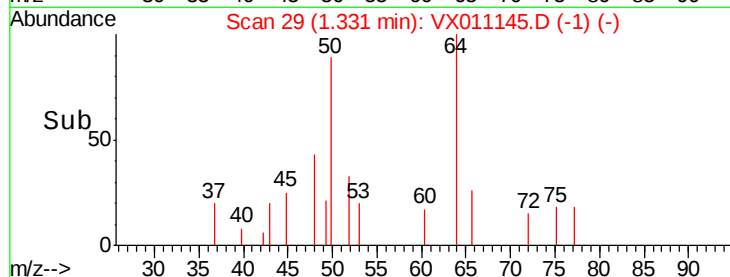
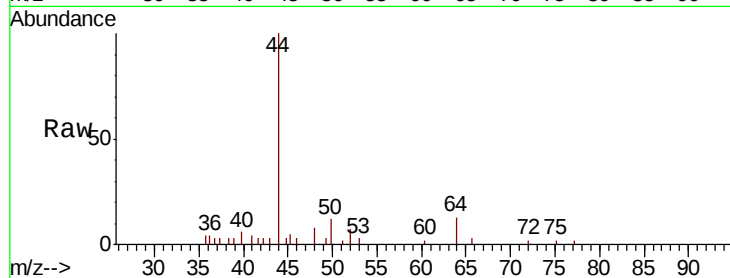
SU19-MSW0414

Tot Ion: 50 Resp: 388

Ion Ratio Lower Upper

50 100

52 78.0 26.4 39.6#



#5

Bromomethane

Concen: 0.568 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX011145.D

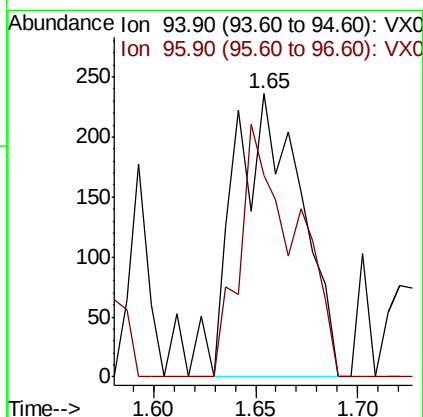
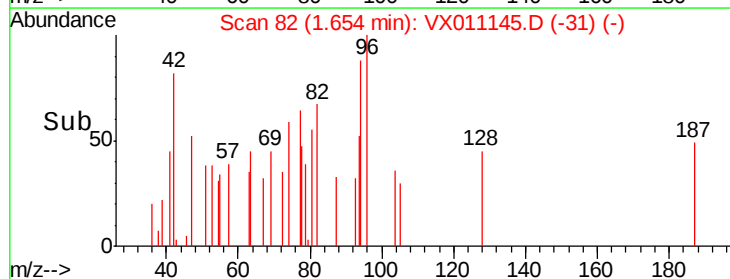
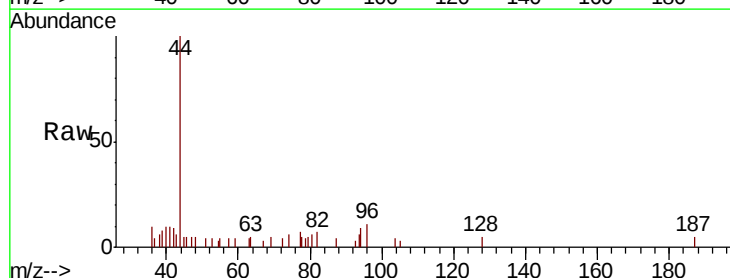
Acq: 29 Jul 2019 15:02

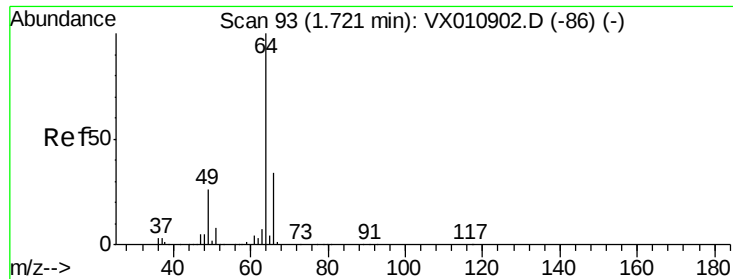
Tgt Ion: 94 Resp: 541

Ion Ratio Lower Upper

94 100

96 71.2 75.6 113.4#





#6

Chloroethane

Concen: 0.553 ug/l

RT: 1.76 min Scan# 100

Delta R.T. 0.04 min

Lab File: VX011145.D

Acq: 29 Jul 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

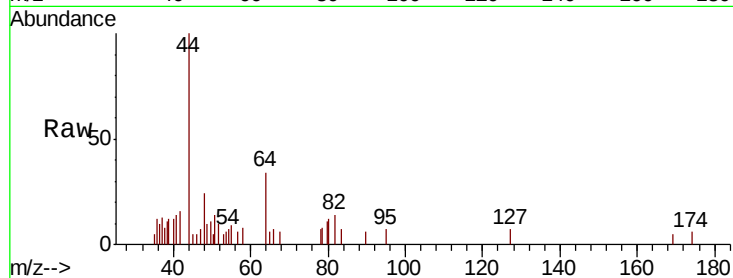
SU19-MSW0414

Tot Ion: 64 Resp: 594

Ion Ratio Lower Upper

64 100

66 5.3 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

400

300

200

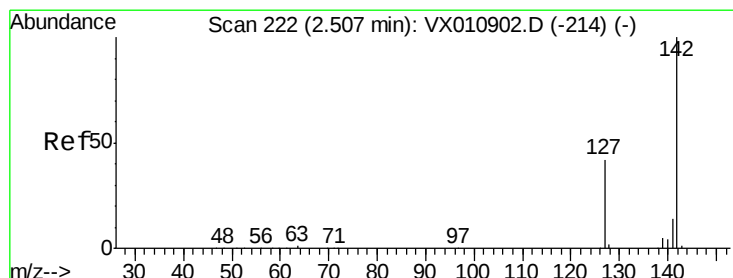
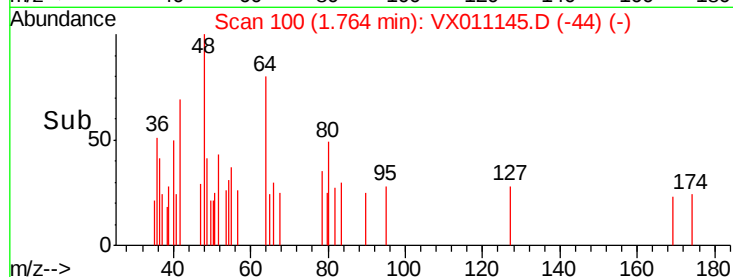
100

0

1.70 1.75 1.80

1.76

Time-->



#10

Methyl Iodide

Concen: 0.208 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.02 min

Lab File: VX011145.D

Acq: 29 Jul 2019 15:02

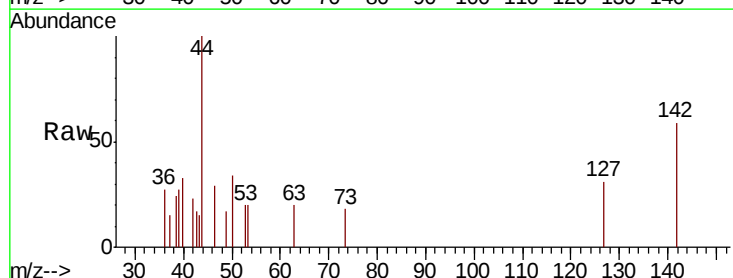
Tgt Ion: 142 Resp: 445

Ion Ratio Lower Upper

142 100

127 40.0 34.2 51.4

141 4.3 11.7 17.5#



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

250

200

150

100

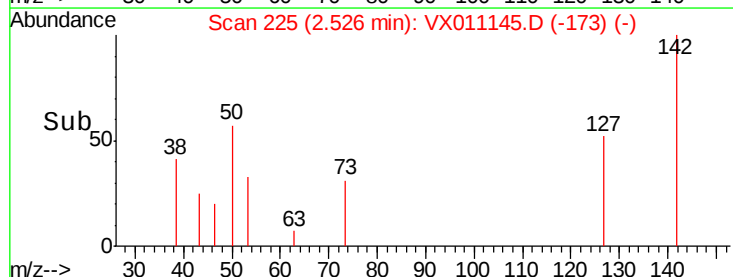
50

0

2.50 2.55

2.53

Time-->



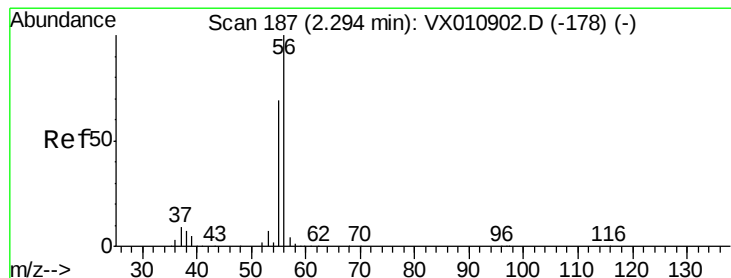
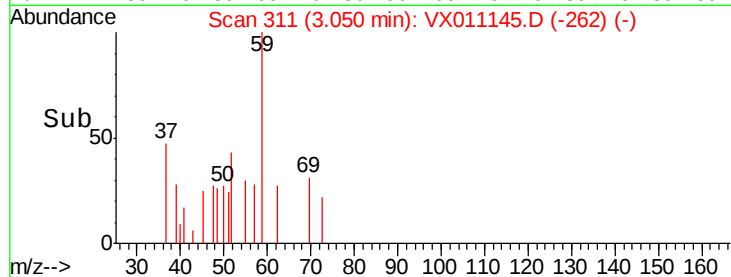
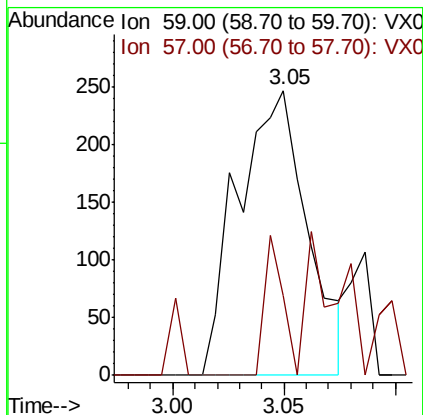
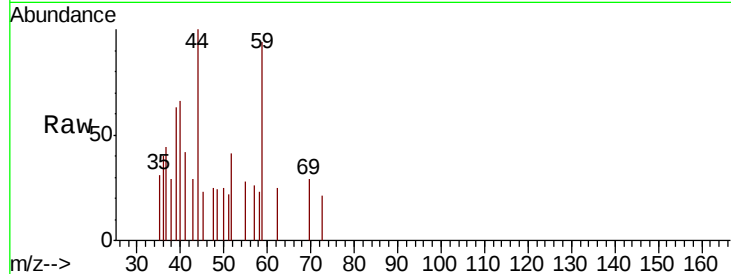


#11

Tert butyl alcohol
 Concen: 1.198 ug/l
 RT: 3.05 min Scan# 311
 Delta R.T. -0.00 min
 Lab File: VX011145.D
 Acq: 29 Jul 2019 15:02

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0414

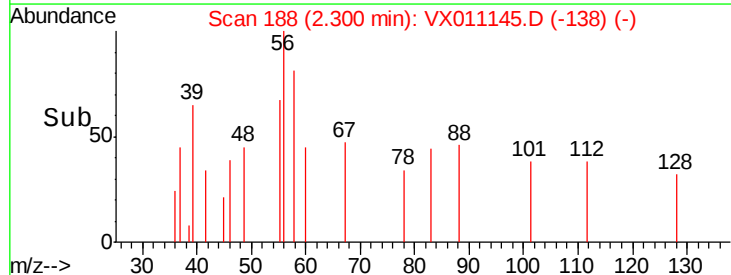
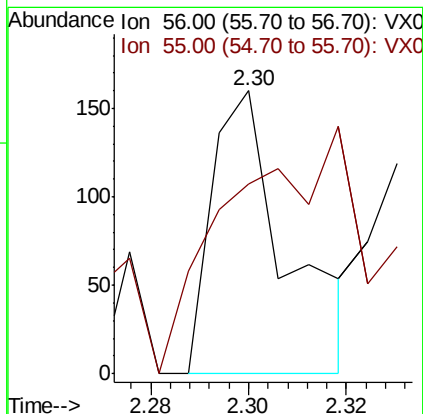
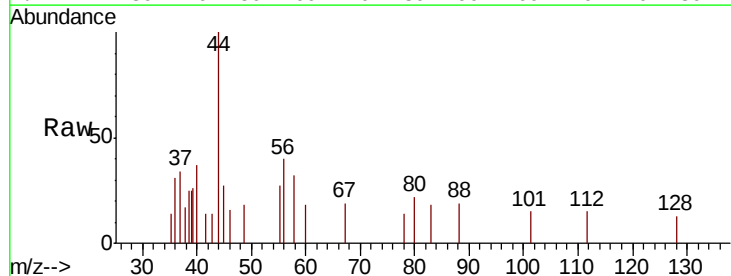
Tot Ion: 59 Resp: 535
 Ion Ratio Lower Upper
 59 100
 57 13.1 7.9 11.9#

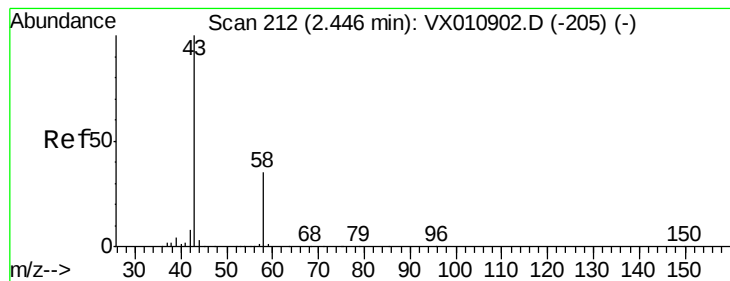


#13

Acrolein
 Concen: 0.659 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX011145.D
 Acq: 29 Jul 2019 15:02

Tgt Ion: 56 Resp: 170
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.9 83.9#





#16

Acetone

Concen: 3.401 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX011145.D

Acq: 29 Jul 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

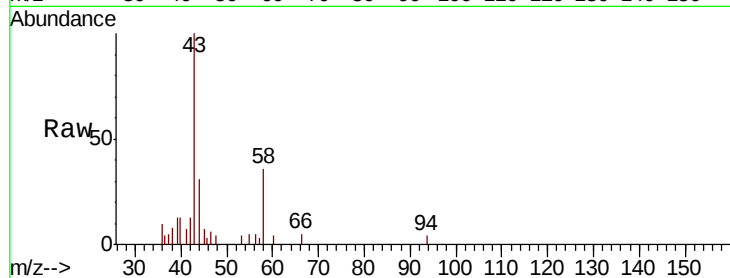
SU19-MSW0414

Tot Ion: 43 Resp: 2945

Ion Ratio Lower Upper

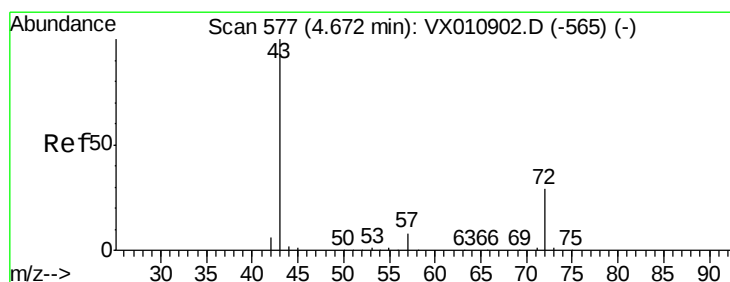
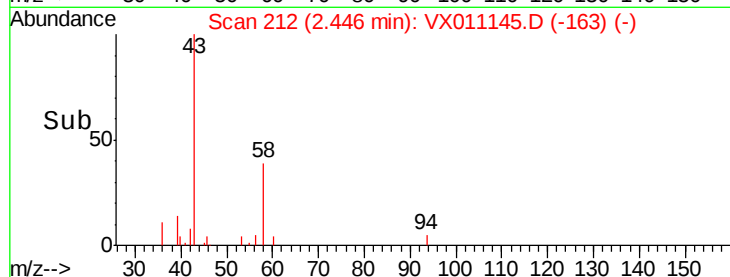
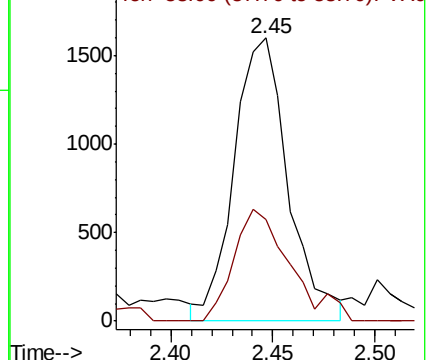
43 100

58 38.5 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#25

2-Butanone

Concen: 0.257 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX011145.D

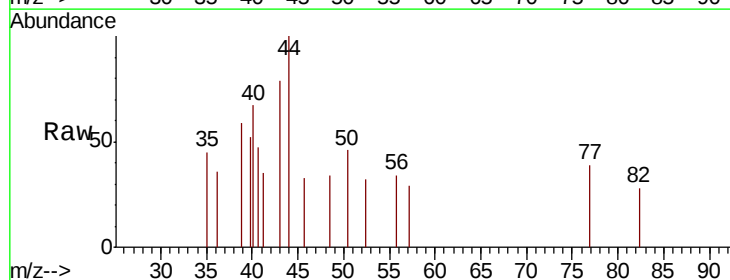
Acq: 29 Jul 2019 15:02

Tgt Ion: 43 Resp: 319

Ion Ratio Lower Upper

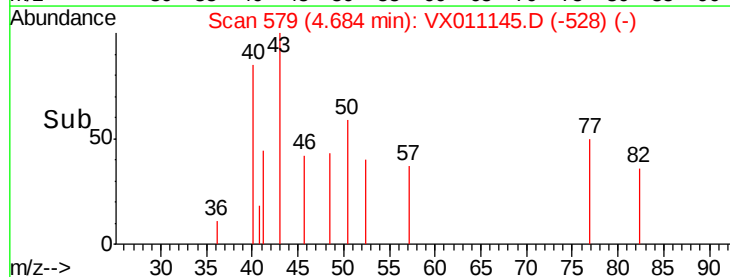
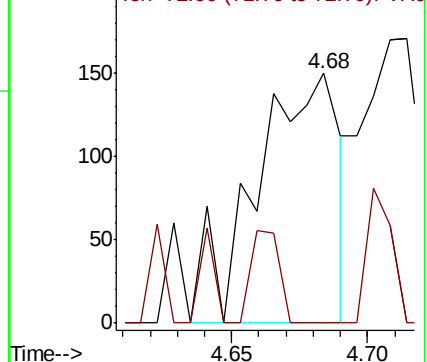
43 100

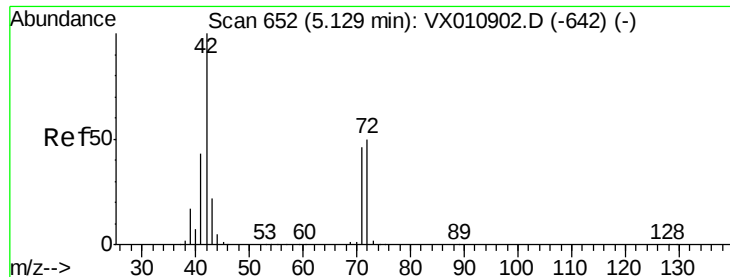
72 0.0 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.221 ug/l

RT: 5.10 min Scan# 648

Delta R.T. -0.02 min

Lab File: VX011145.D

Acq: 29 Jul 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0414

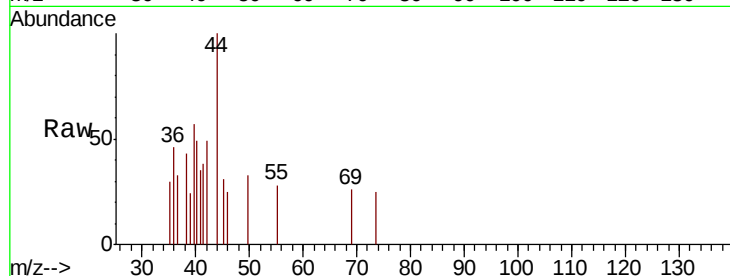
Tot Ion: 42 Resp: 174

Ion Ratio Lower Upper

42 100

72 10.9 39.8 59.8#

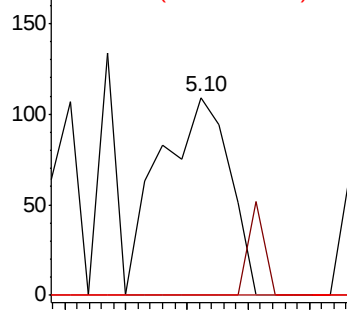
71 0.0 37.0 55.4#



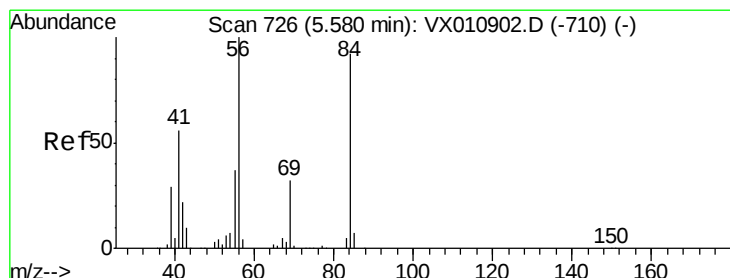
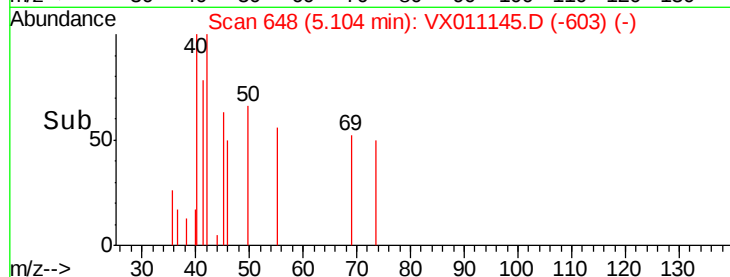
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->



#31

Cyclohexane

Concen: 1.228 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX011145.D

Acq: 29 Jul 2019 15:02

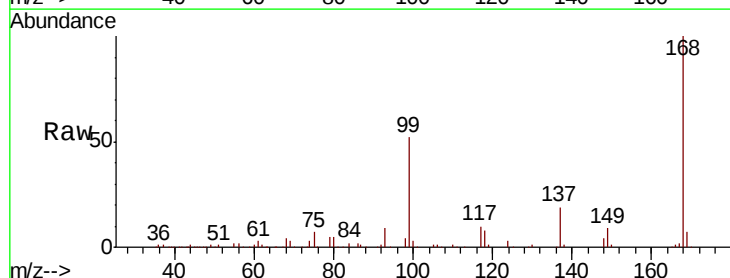
Tgt Ion: 56 Resp: 3197

Ion Ratio Lower Upper

56 100

69 137.5 25.8 38.8#

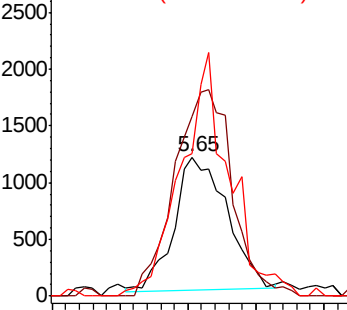
84 104.5 73.8 110.6



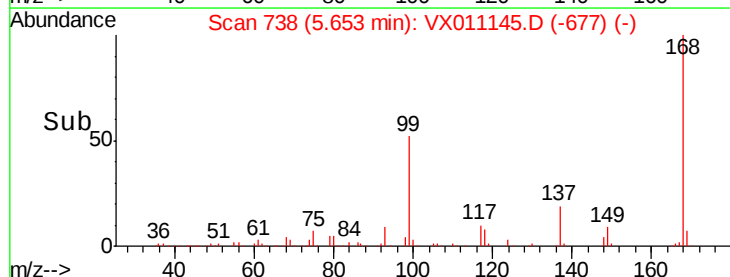
Abundance Ion 56.00 (55.70 to 56.70): VX0

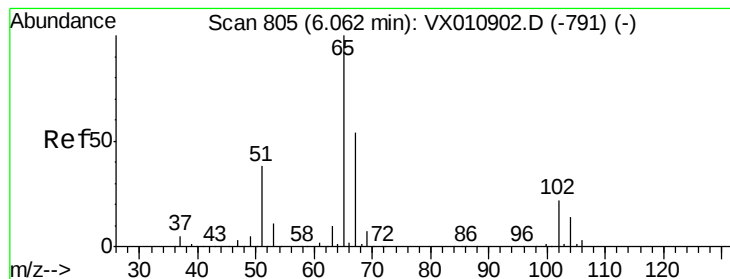
Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 52.657 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011145.D

Acq: 29 Jul 2019 15:02

Instrument :

MSVOA_X

ClientSampled :

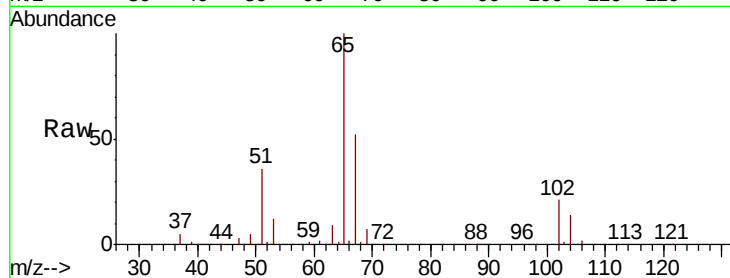
SU19-MSW0414

Tot Ion: 65 Resp: 100955

Ion Ratio Lower Upper

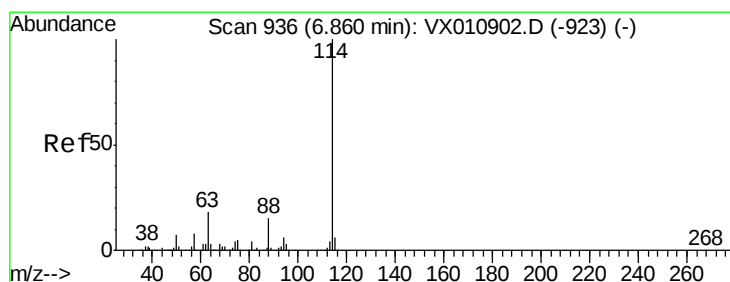
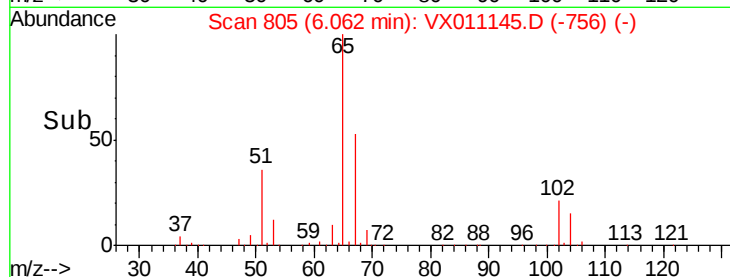
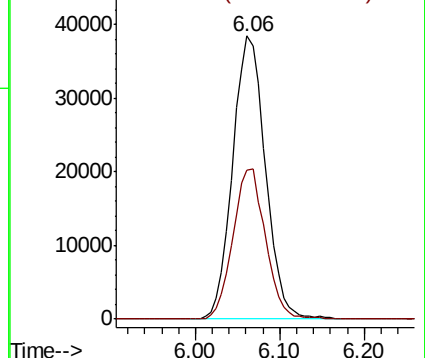
65 100

67 52.8 0.0 107.8



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: VX011145.D

Acq: 29 Jul 2019 15:02

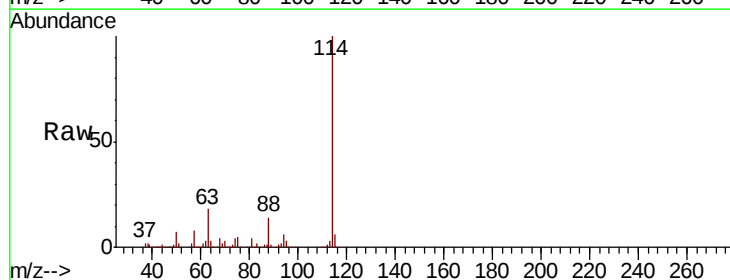
Tgt Ion: 114 Resp: 290990

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.6

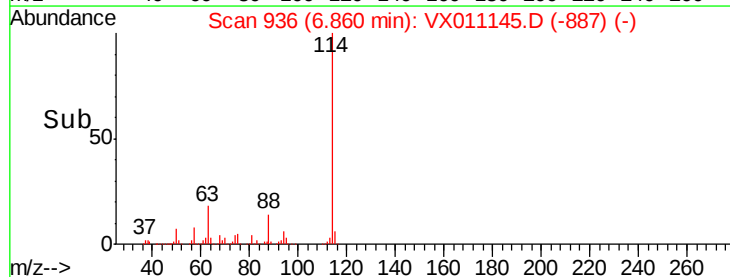
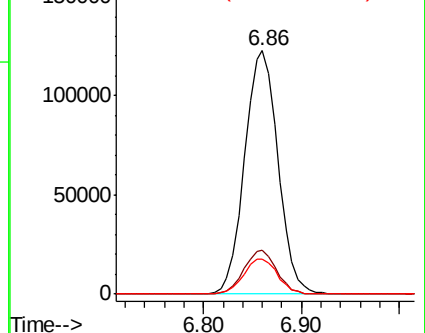
88 14.3 0.0 29.8

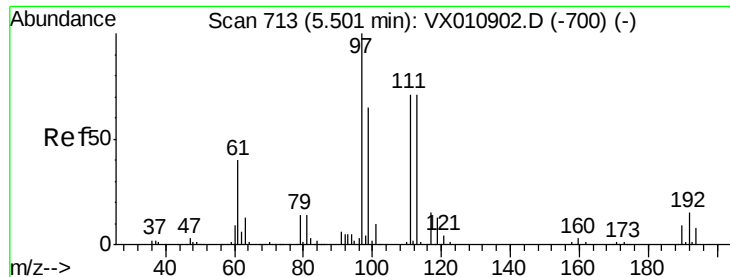


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

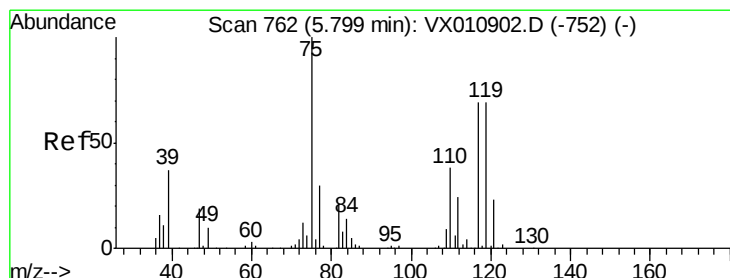
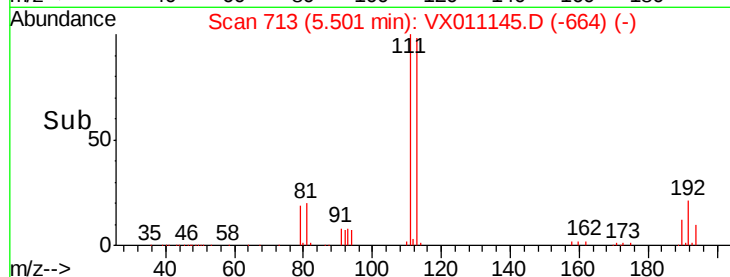
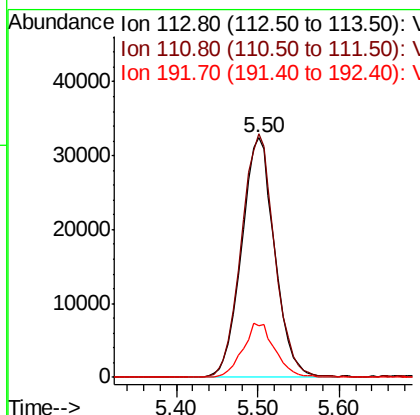
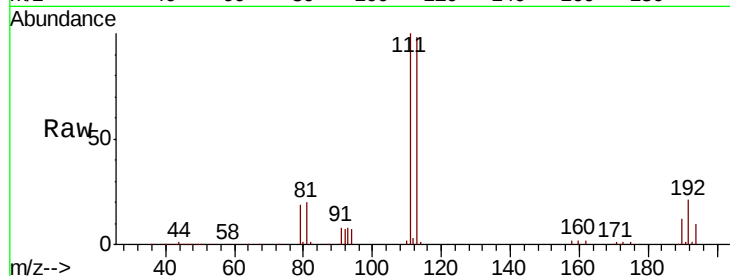




#35
 Dibromofluoromethane
 Concen: 49.388 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX011145.D
 Acq: 29 Jul 2019 15:02

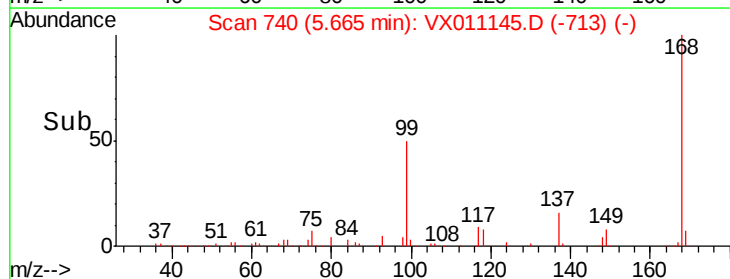
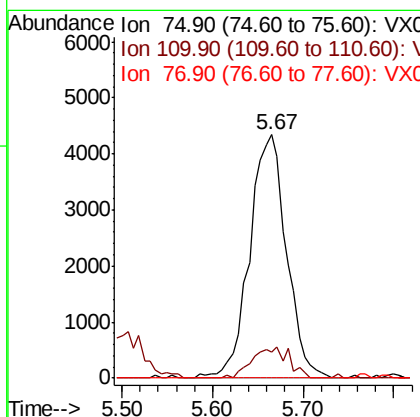
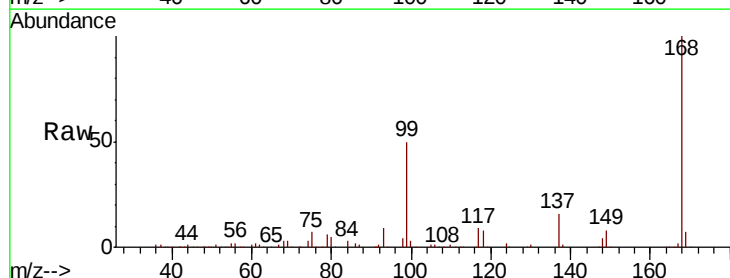
Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0414

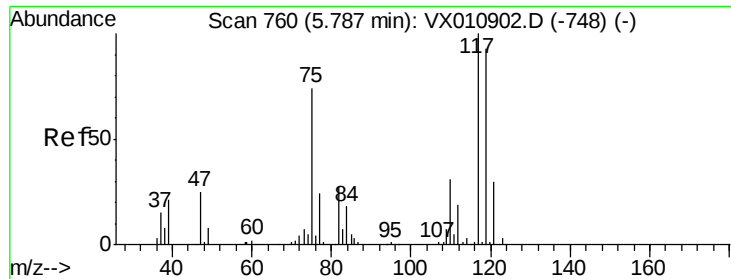
Tot Ion:113 Resp: 91218
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.3 123.5
 192 21.8 17.4 26.2



#36
 1,1-Dichloropropene
 Concen: 5.106 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX011145.D
 Acq: 29 Jul 2019 15:02

Tgt Ion: 75 Resp: 12204
 Ion Ratio Lower Upper
 75 100
 110 12.7 19.9 59.7#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.849 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011145.D

Acq: 29 Jul 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0414

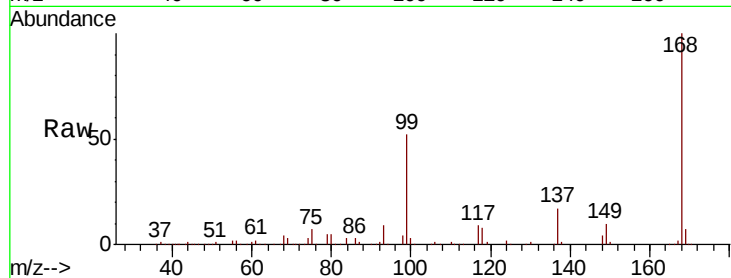
Tot Ion:117 Resp: 17058

Ion Ratio Lower Upper

117 100

119 6.4 74.2 111.2#

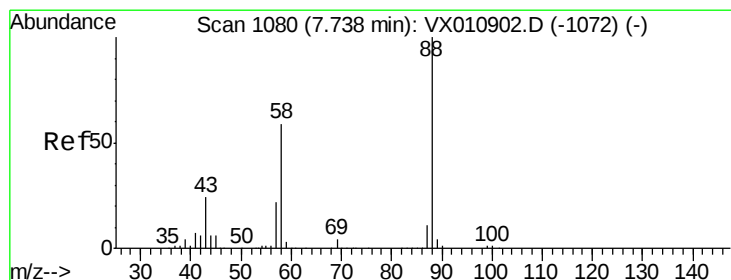
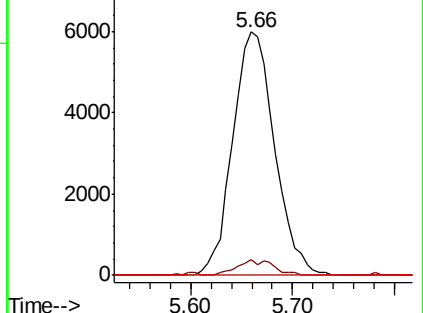
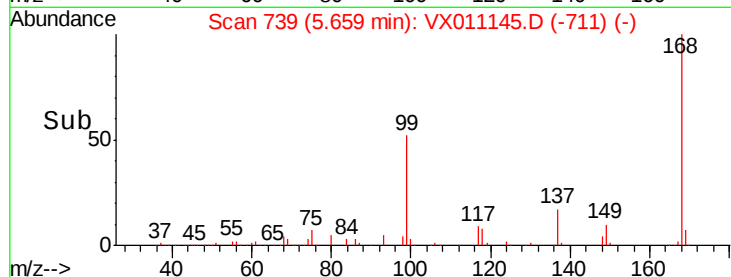
121 0.0 24.2 36.2#



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



#49

1,4-Dioxane

Concen: 0.802 ug/l

RT: 7.89 min Scan# 1105

Delta R.T. 0.15 min

Lab File: VX011145.D

Acq: 29 Jul 2019 15:02

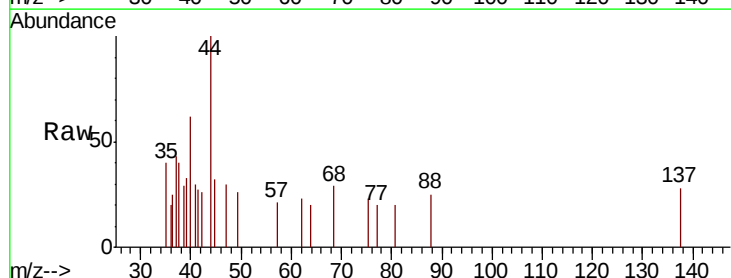
Tgt Ion: 88 Resp: 44

Ion Ratio Lower Upper

88 100

43 95.5 22.9 34.3#

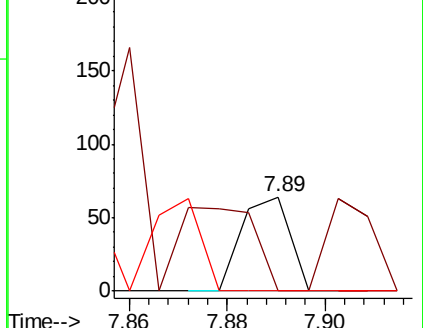
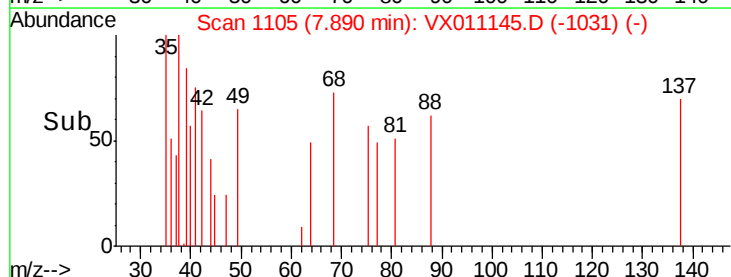
58 0.0 49.8 74.8#

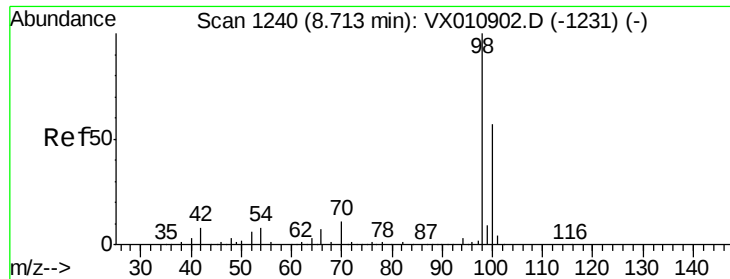


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

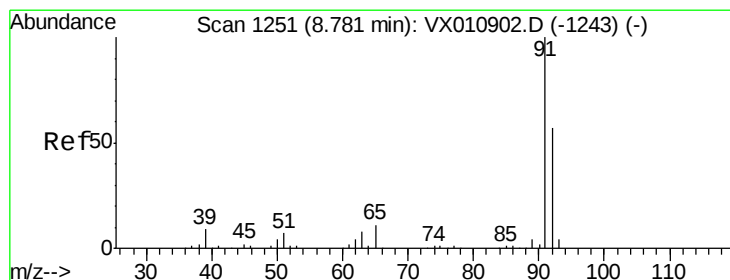
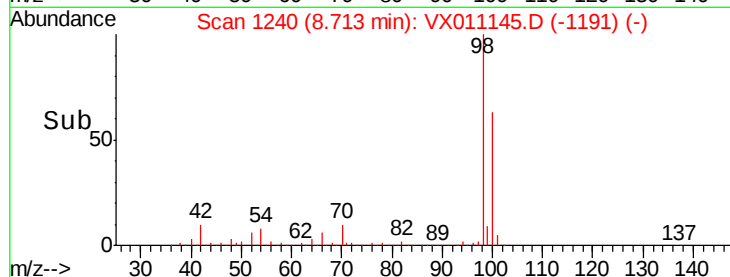
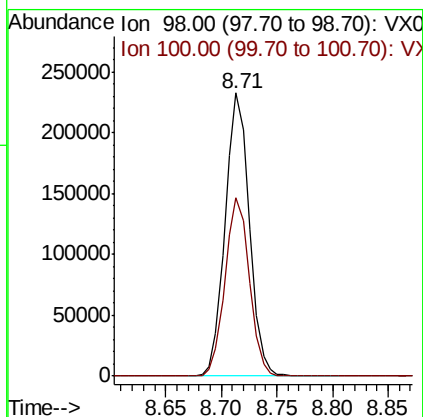
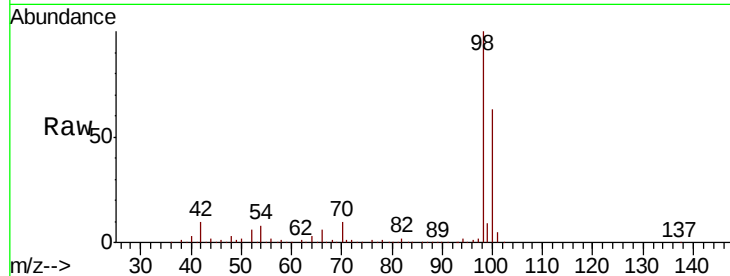




#50
Toluene-d8
Concen: 50.581 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011145.D
Acq: 29 Jul 2019 15:02

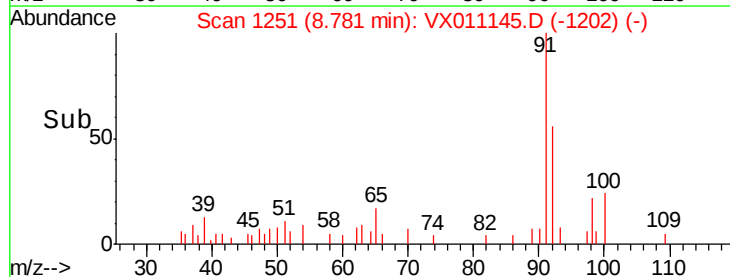
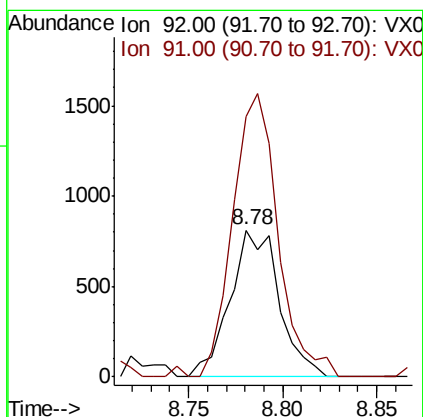
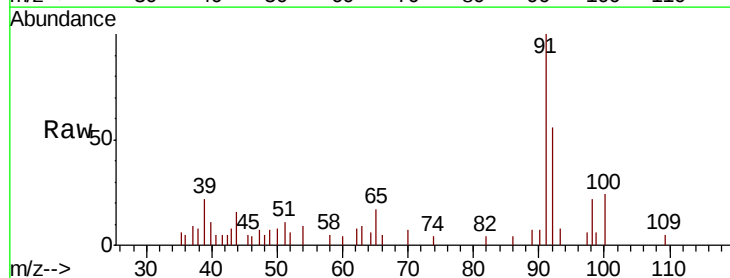
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0414

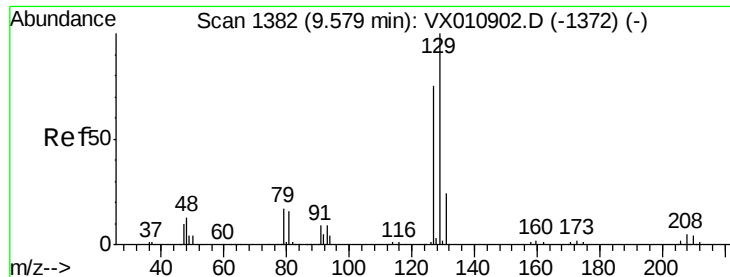
Tot Ion: 98 Resp: 350388
Ion Ratio Lower Upper
98 100
100 63.6 50.6 75.8



#52
Toluene
Concen: 0.305 ug/l
RT: 8.78 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VX011145.D
Acq: 29 Jul 2019 15:02

Tgt Ion: 92 Resp: 1467
Ion Ratio Lower Upper
92 100
91 178.0 139.4 209.0





#60

Dibromochloromethane

Concen: 2.537 ug/l

RT: 9.77 min Scan# 1414

Delta R.T. 0.20 min

Lab File: VX011145.D

Acq: 29 Jul 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

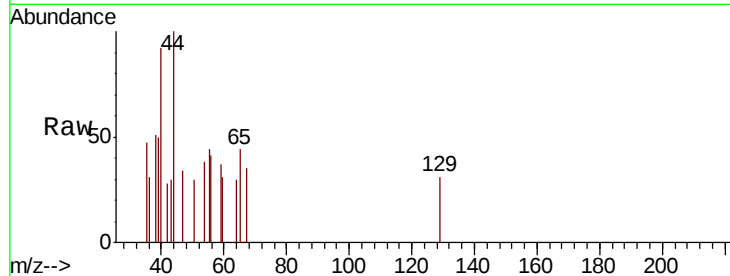
SU19-MSW0414

Tot Ion:129 Resp: 22

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.77

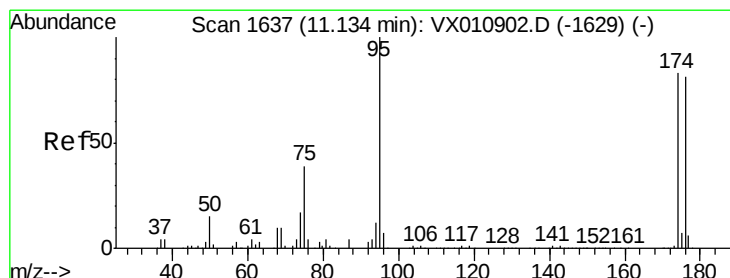
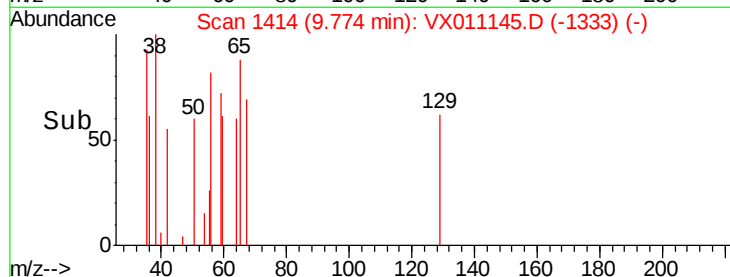
60

40

20

0

Time--> 9.75 9.76 9.77 9.78 9.79



#62

4-Bromofluorobenzene

Concen: 48.786 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011145.D

Acq: 29 Jul 2019 15:02

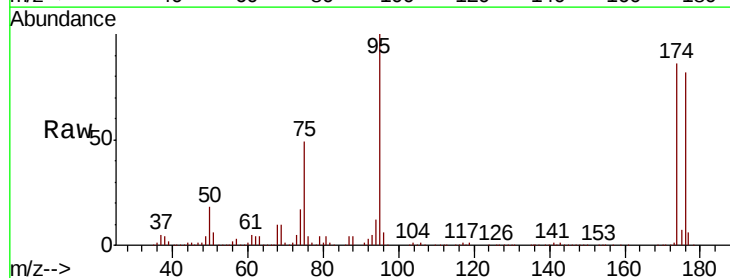
Tgt Ion: 95 Resp: 124223

Ion Ratio Lower Upper

95 100

174 90.4 0.0 180.6

176 88.6 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

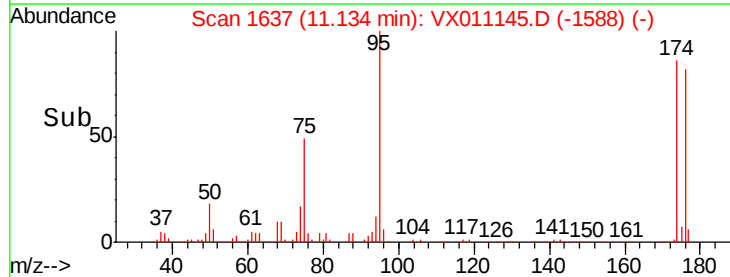
11.13

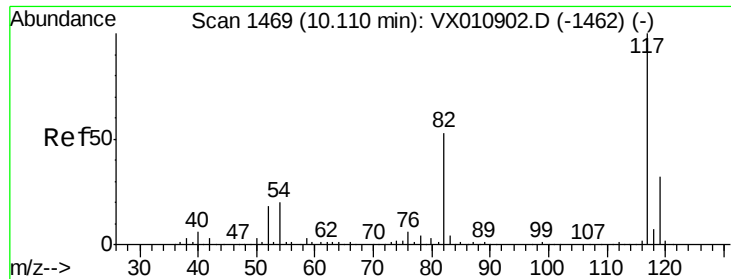
100000

50000

0

Time--> 11.10 11.20

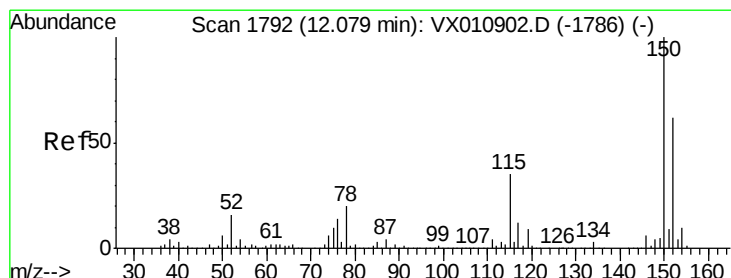
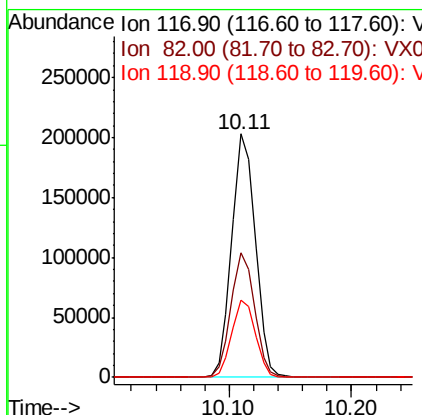
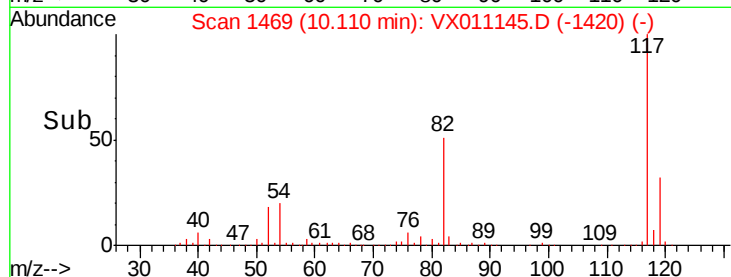
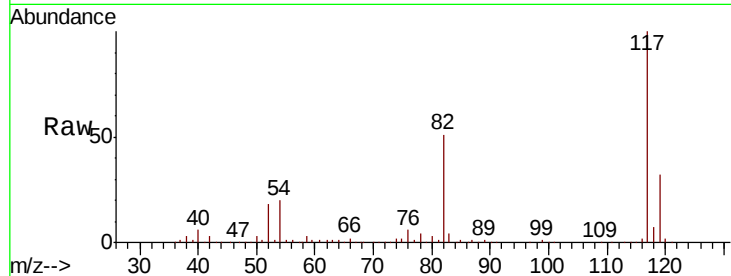




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011145.D
Acq: 29 Jul 2019 15:02

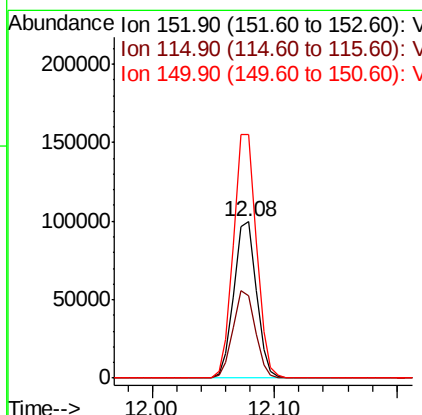
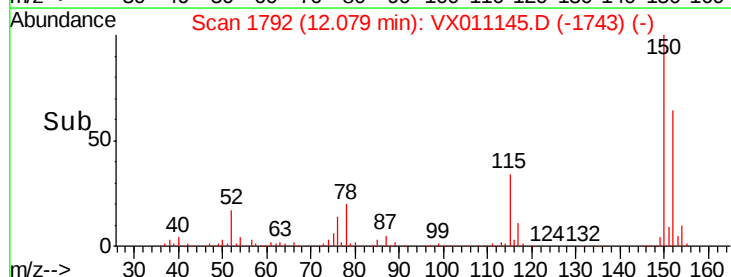
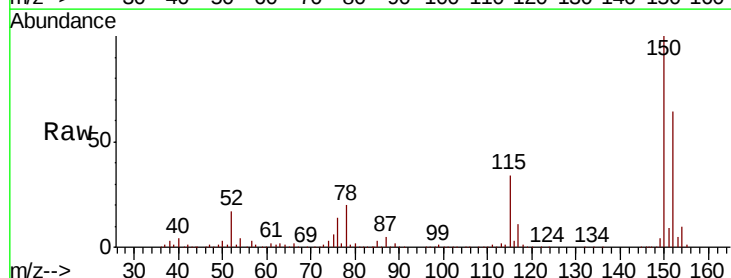
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0414

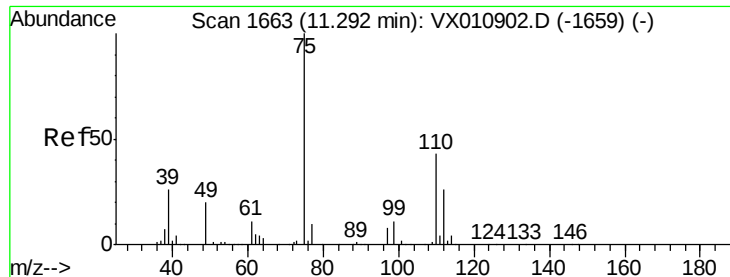
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.2	42.6	63.8
119	31.7	25.9	38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011145.D
Acq: 29 Jul 2019 15:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	39.7	119.1
150	158.5	0.0	345.6





#76

1,2,3-Trichloropropane

Concen: 27.069 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011145.D

Acq: 29 Jul 2019 15:02

Instrument :

MSVOA_X

ClientSampleId :

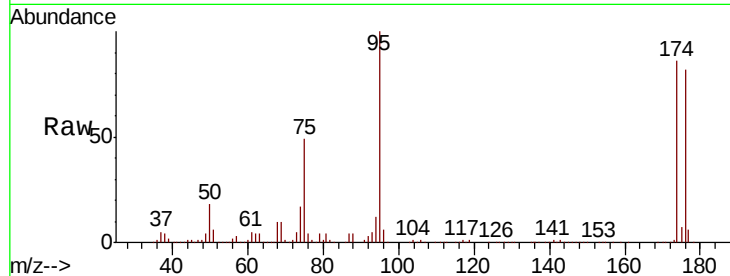
SU19-MSW0414

Tot Ion: 75 Resp: 62007

Ion Ratio Lower Upper

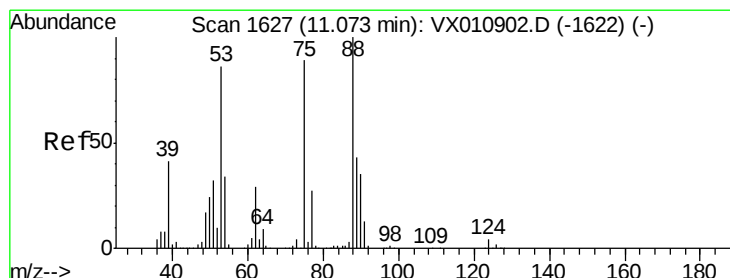
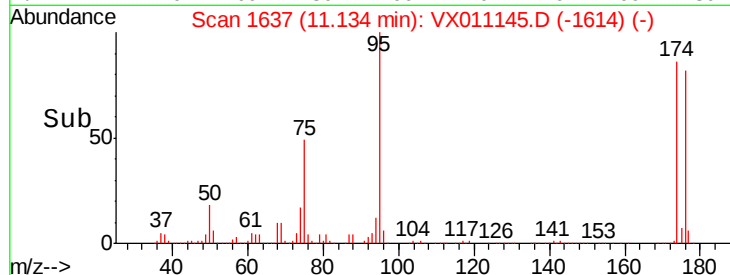
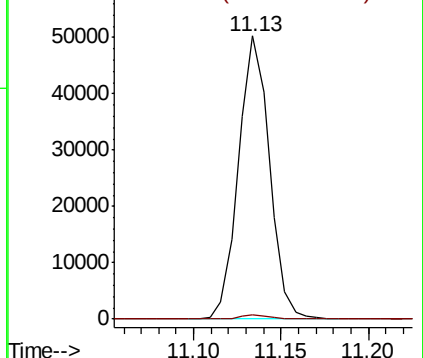
75 100

77 1.4 21.3 64.0#



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: 67.102 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011145.D

Acq: 29 Jul 2019 15:02

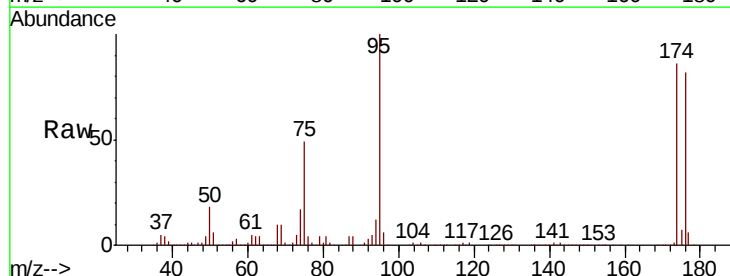
Tgt Ion: 75 Resp: 62007

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.0 38.5 57.7#



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

