

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081319\
 Data File : VX011530.D
 Acq On : 13 Aug 2019 12:57
 Operator : JC/SP
 Sample : K4279-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-ER-2019-1

Quant Time: Aug 14 01:05:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	196766	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	294363	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	263120	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	124496	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	109011	55.01	ug/l	0.00
Spiked Amount			Recovery	=	110.02%	
35) Dibromofluoromethane	5.49	113	90928	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	
50) Toluene-d8	8.71	98	343180	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	
62) 4-Bromofluorobenzene	11.13	95	118132	45.61	ug/l	0.00
Spiked Amount			Recovery	=	91.22%	

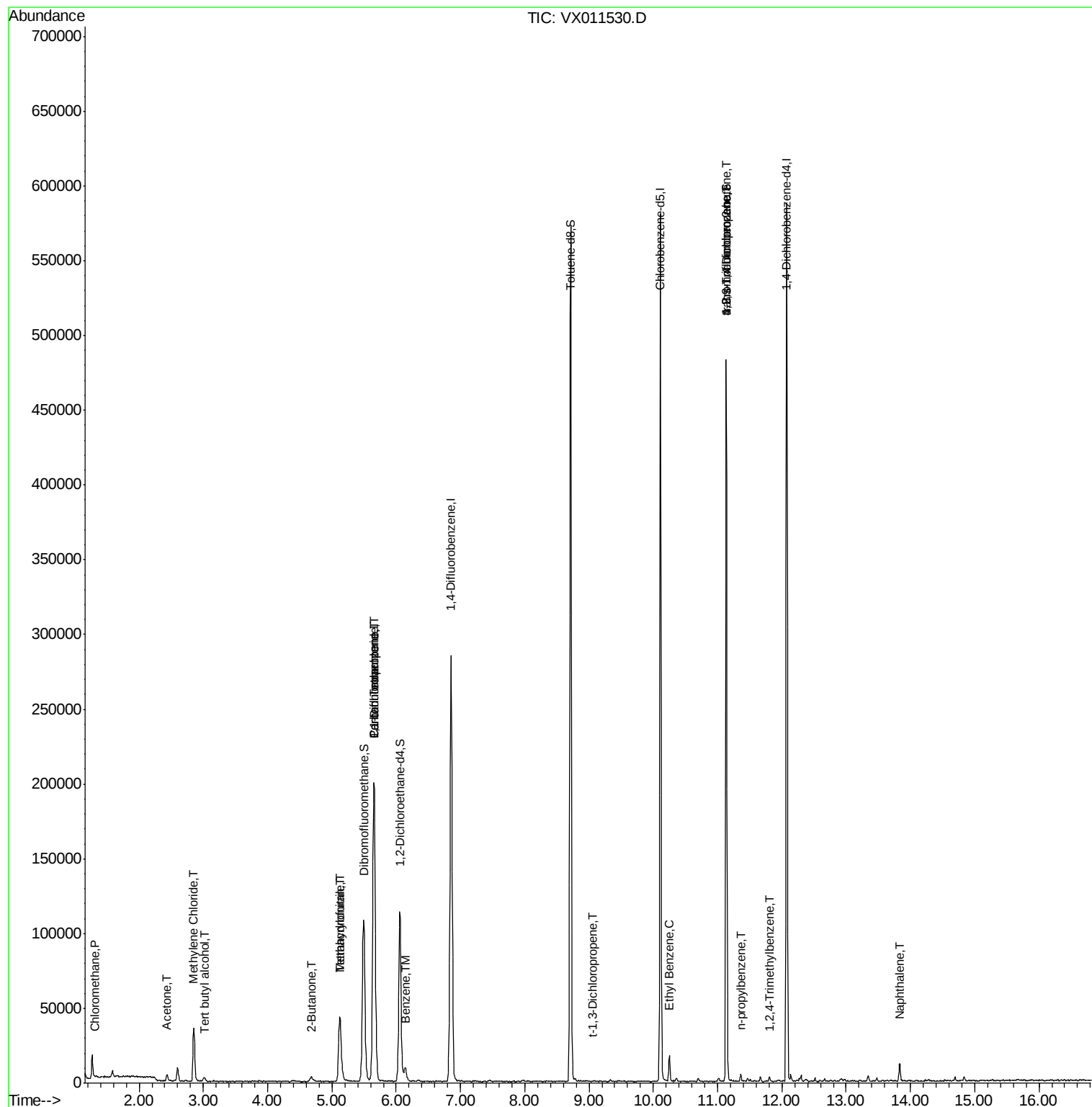
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	614	0.360	ug/l	97
6) Chloroethane	1.73	64	64	Below Cal	#	31
11) Tert butyl alcohol	3.01	59	1514	3.854	ug/l #	85
16) Acetone	2.43	43	4298	4.557	ug/l	99
20) Methylene Chloride	2.85	84	16503	7.989	ug/l	95
25) 2-Butanone	4.68	43	2277	1.697	ug/l	100
29) Tetrahydrofuran	5.12	42	38572	46.888	ug/l	98
36) 1,1-Dichloropropene	5.65	75	13249	5.155	ug/l #	44
38) Carbon Tetrachloride	5.65	117	18956	7.331	ug/l #	15
40) Benzene	6.13	78	10066	1.313	ug/l	100
41) Methacrylonitrile	5.13	41	22998	16.335	ug/l #	41
53) t-1,3-Dichloropropene	9.05	75	18	2.844	ug/l #	43
67) Ethyl Benzene	10.25	91	10384	1.099	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	60828	26.829	ug/l #	35
78) n-propylbenzene	11.36	91	2213	0.234	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.13	75	60828	69.682	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	1597	0.225	ug/l	89
95) Naphthalene	13.83	128	7480	0.920	ug/l	95

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011530.D

Acq: 13 Aug 2019 12:57

Instrument :

MSVOA_X

ClientSampleId :

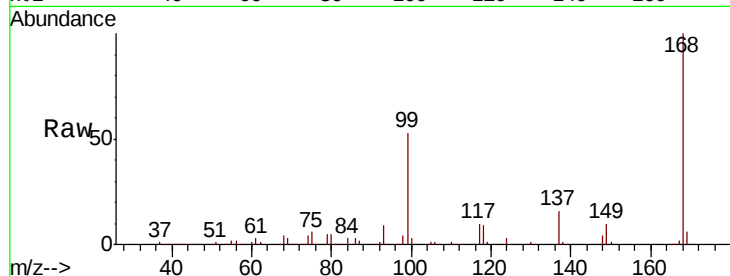
Z3-ER-2019-1

Tgt Ion:168 Resp: 196766

Ion Ratio Lower Upper

168 100

99 53.4 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

80000

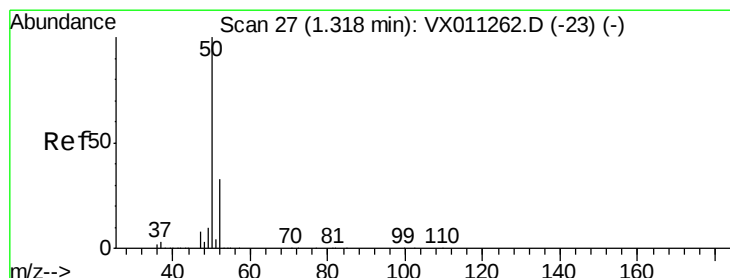
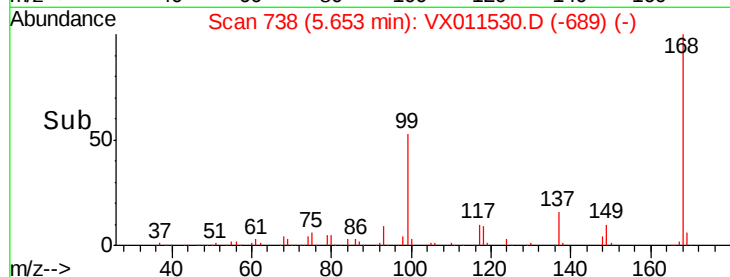
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.360 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011530.D

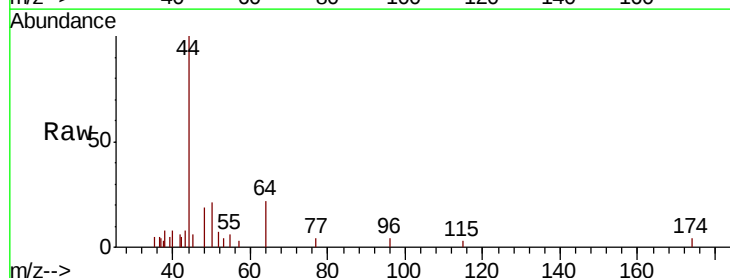
Acq: 13 Aug 2019 12:57

Tgt Ion: 50 Resp: 614

Ion Ratio Lower Upper

50 100

52 34.6 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

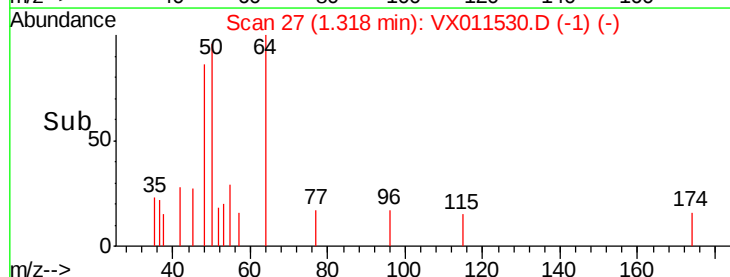
300

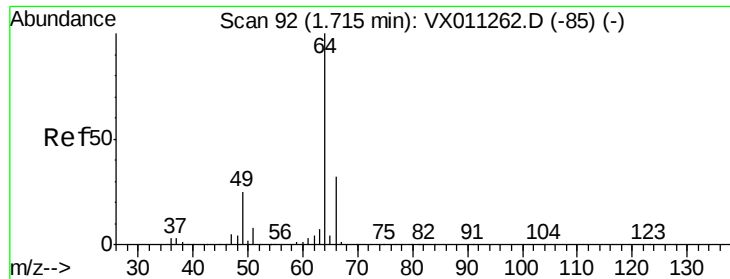
200

100

0

Time--> 1.30 1.35





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX011530.D

Acq: 13 Aug 2019 12:57

Instrument :

MSVOA_X

ClientSampleId :

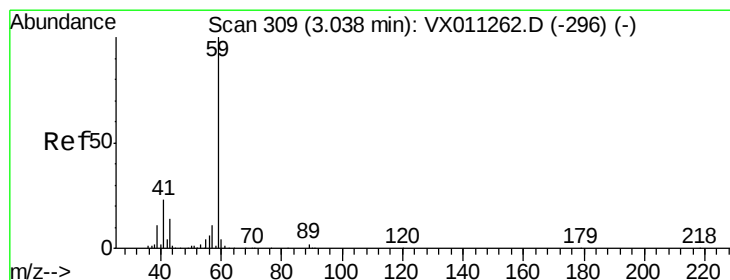
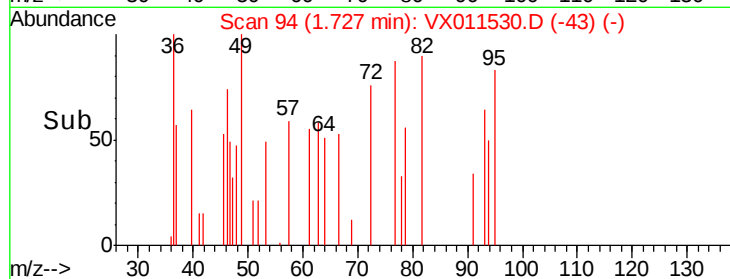
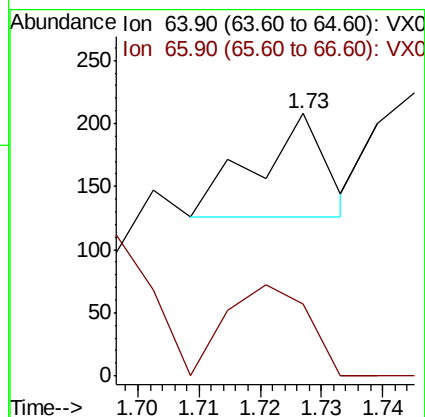
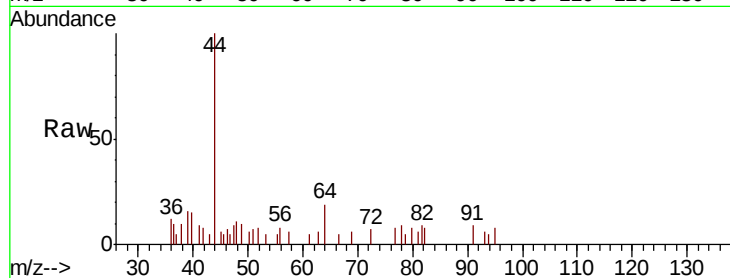
Z3-ER-2019-1

Tgt Ion: 64 Resp: 64

Ion Ratio Lower Upper

64 100

66 69.5 25.1 37.7#



#11

Tert butyl alcohol

Concen: 3.854 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011530.D

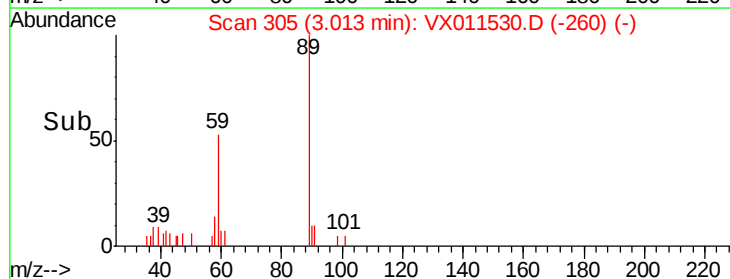
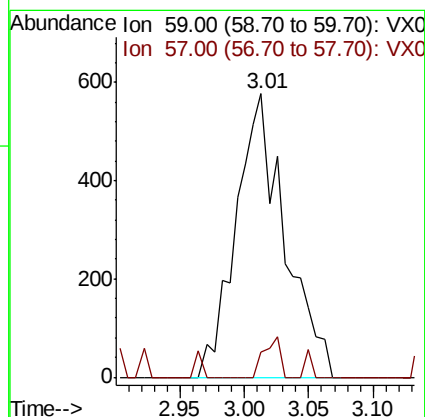
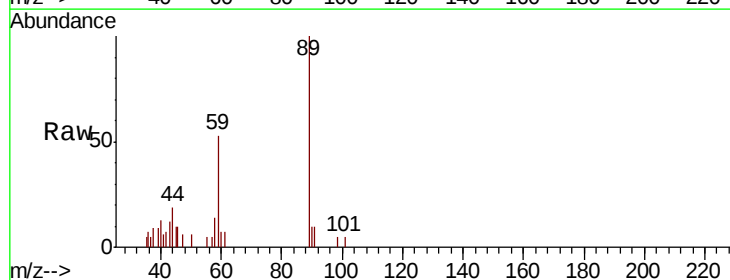
Acq: 13 Aug 2019 12:57

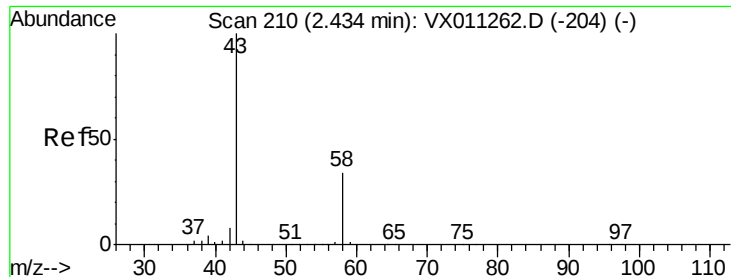
Tgt Ion: 59 Resp: 1514

Ion Ratio Lower Upper

59 100

57 4.7 8.3 12.5#





#16

Acetone

Concen: 4.557 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011530.D

Acq: 13 Aug 2019 12:57

Instrument :

MSVOA_X

ClientSampleId :

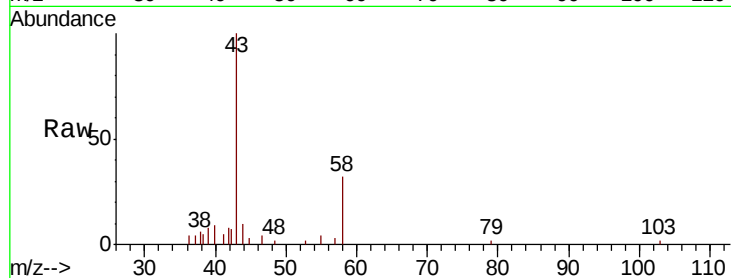
Z3-ER-2019-1

Tgt Ion: 43 Resp: 4298

Ion Ratio Lower Upper

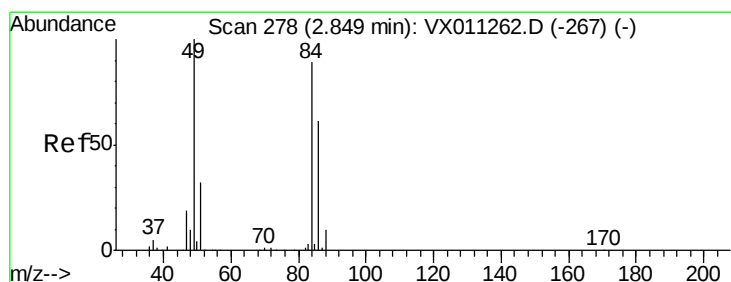
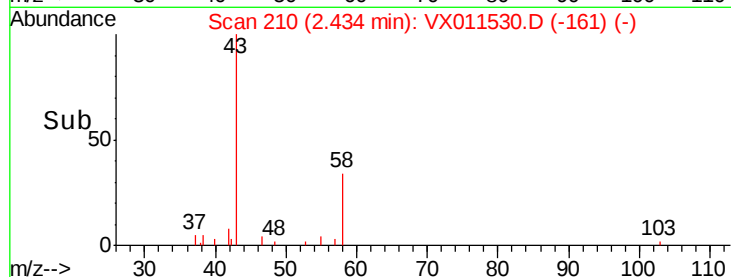
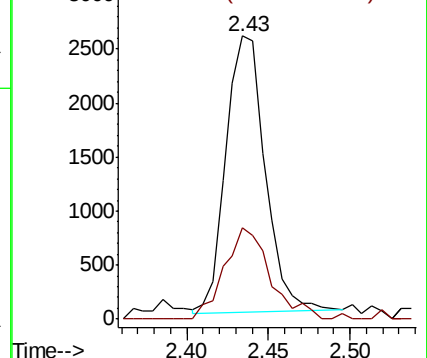
43 100

58 33.6 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 7.989 ug/l

RT: 2.85 min Scan# 278

Delta R.T. 0.00 min

Lab File: VX011530.D

Acq: 13 Aug 2019 12:57

Tgt Ion: 84 Resp: 16503

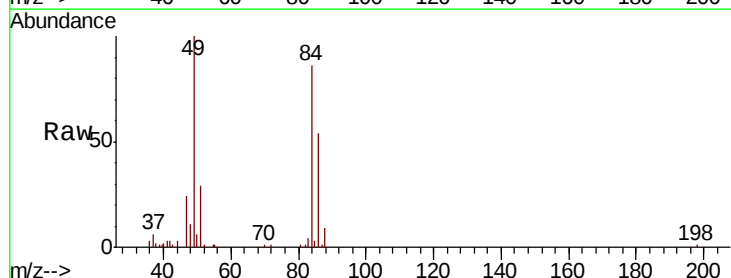
Ion Ratio Lower Upper

84 100

49 116.4 89.3 133.9

51 34.3 28.3 42.5

86 63.4 54.5 81.7

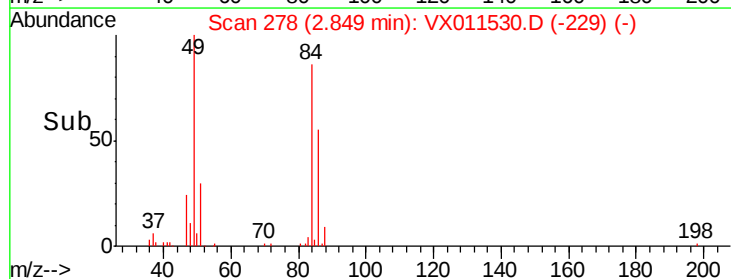
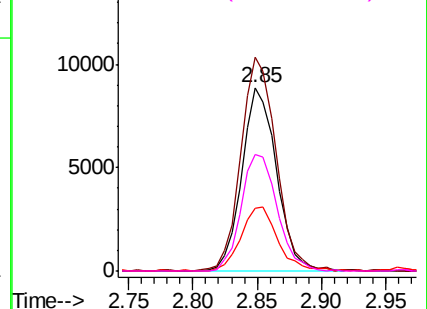


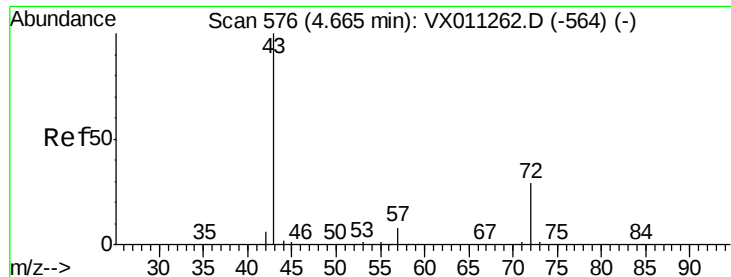
Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 1.697 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011530.D

Acq: 13 Aug 2019 12:57

Instrument :

MSVOA_X

ClientSampleId :

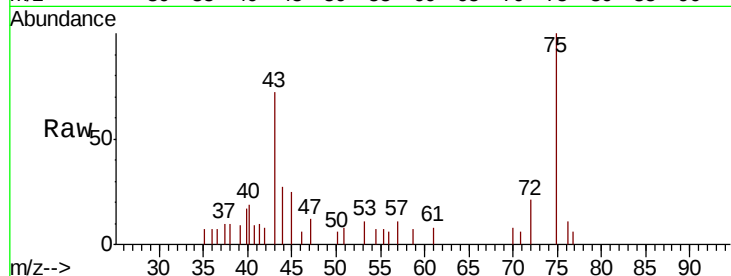
Z3-ER-2019-1

Tgt Ion: 43 Resp: 2277

Ion Ratio Lower Upper

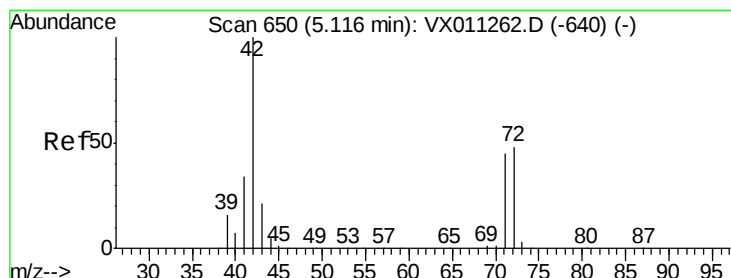
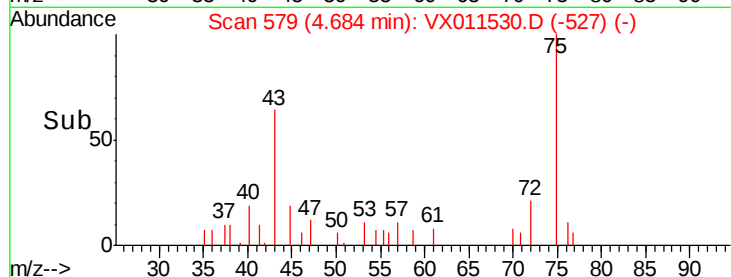
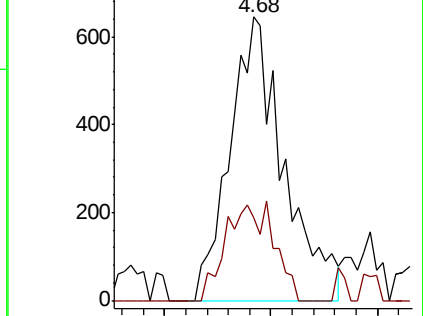
43 100

72 29.1 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 46.888 ug/l

RT: 5.12 min Scan# 651

Delta R.T. 0.01 min

Lab File: VX011530.D

Acq: 13 Aug 2019 12:57

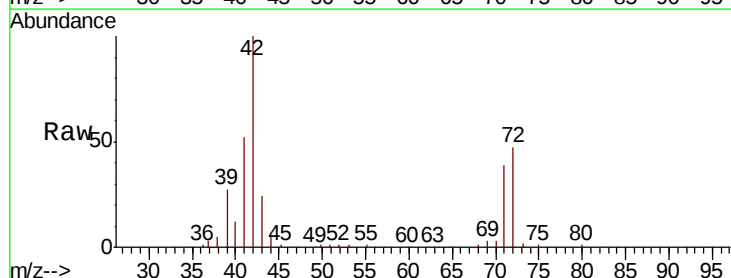
Tgt Ion: 42 Resp: 38572

Ion Ratio Lower Upper

42 100

72 47.6 39.9 59.9

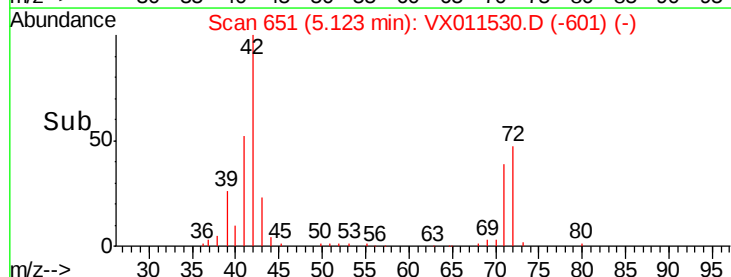
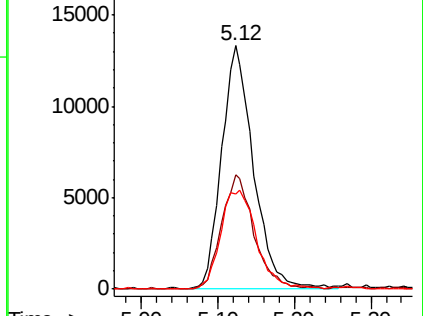
71 45.7 36.9 55.3

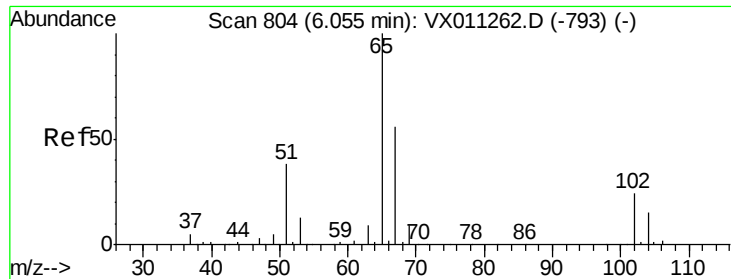


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

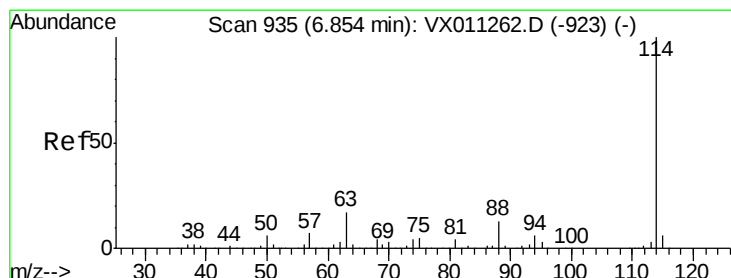
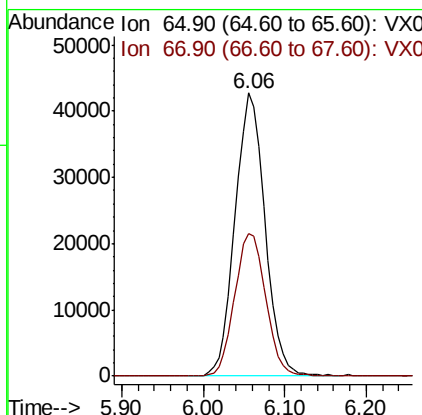
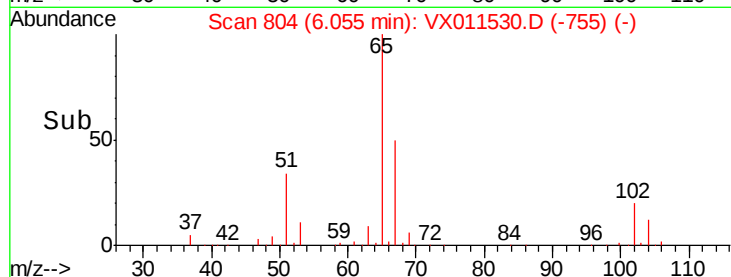
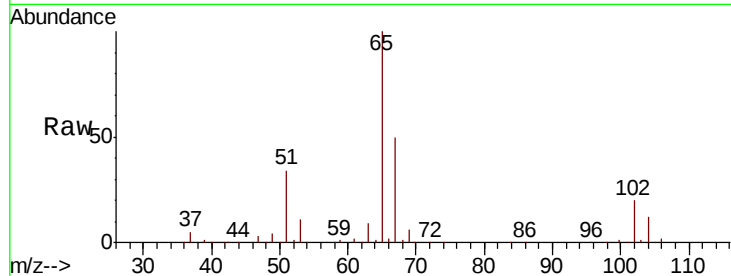




#33
 1,2-Dichloroethane-d4
 Concen: 55.013 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: VX011530.D
 Acq: 13 Aug 2019 12:57

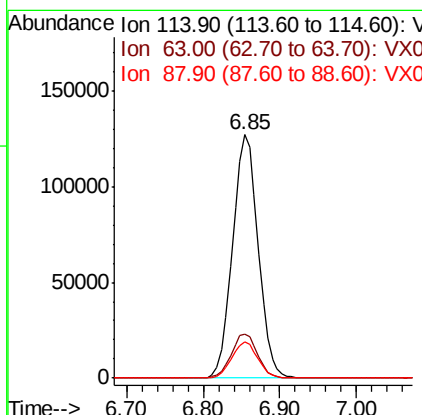
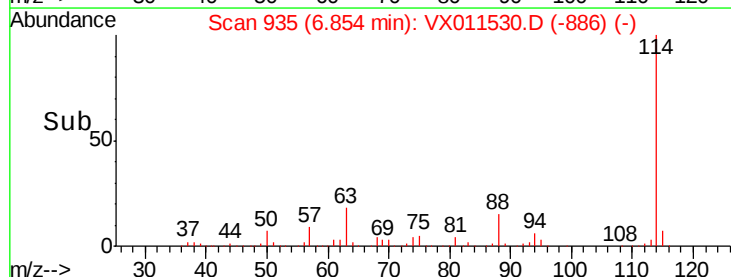
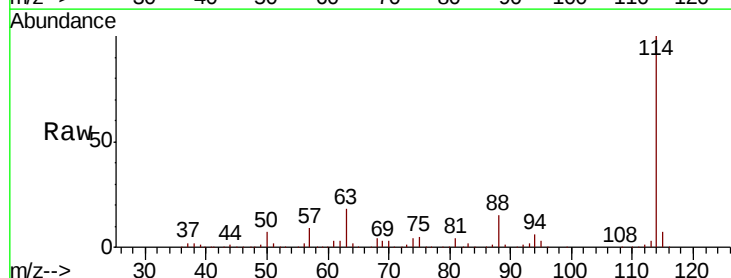
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-ER-2019-1

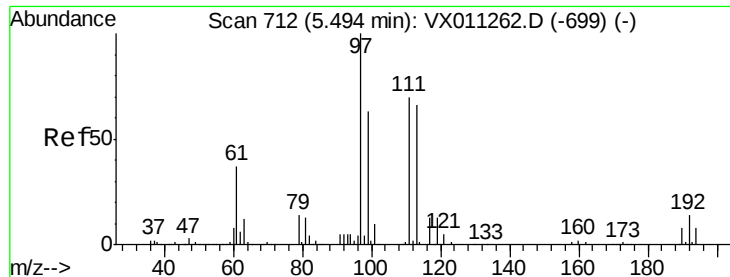
Tgt Ion: 65 Resp: 109011
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011530.D
 Acq: 13 Aug 2019 12:57

Tgt Ion: 114 Resp: 294363
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 34.0
 88 14.7 0.0 26.4





#35

Dibromofluoromethane

Concen: 47.313 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011530.D

Acq: 13 Aug 2019 12:57

Instrument :

MSVOA_X

ClientSampleId :

Z3-ER-2019-1

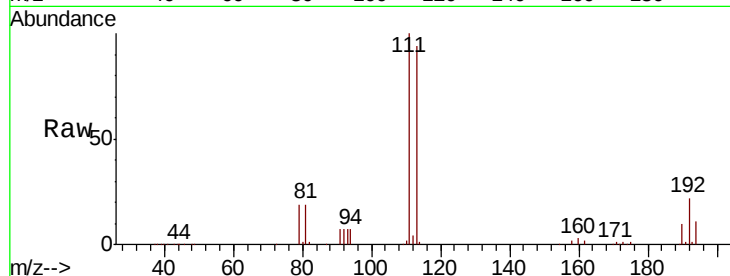
Tgt Ion:113 Resp: 90928

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

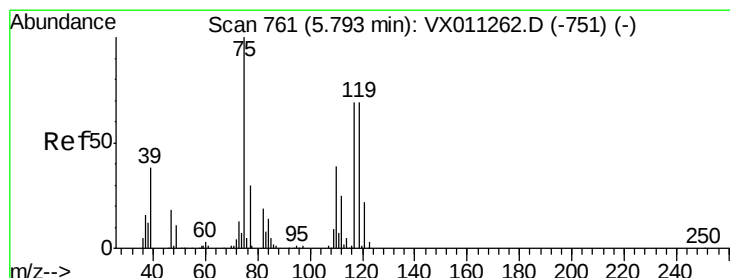
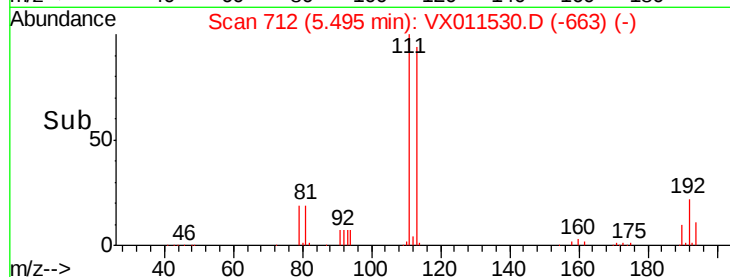
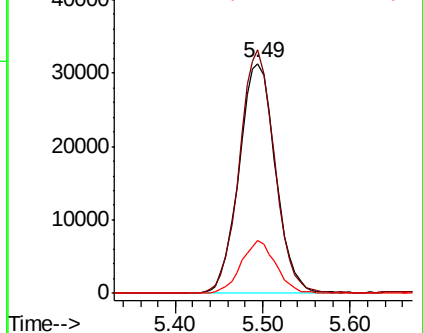
192 21.9 17.8 26.8



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: 5.155 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.15 min

Lab File: VX011530.D

Acq: 13 Aug 2019 12:57

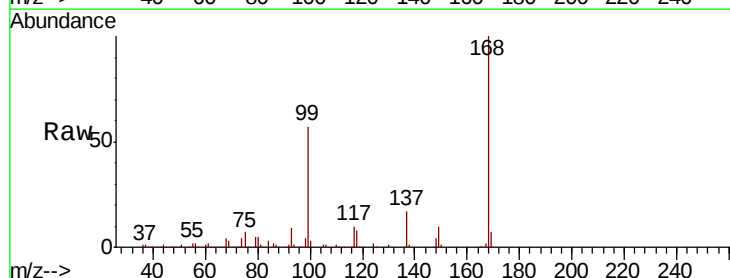
Tgt Ion: 75 Resp: 13249

Ion Ratio Lower Upper

75 100

110 6.0 20.0 59.9#

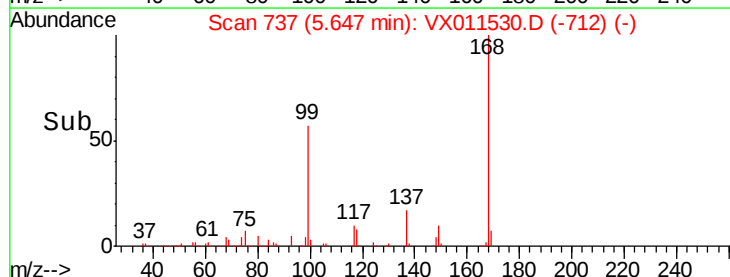
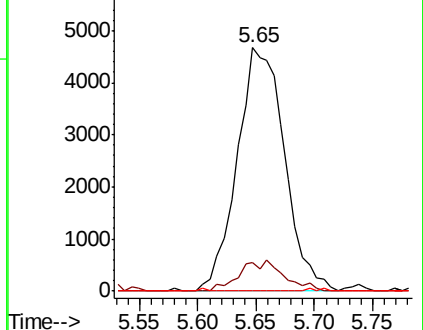
77 0.0 24.8 37.2#

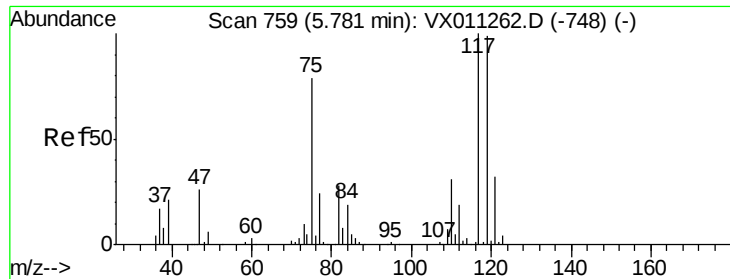


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

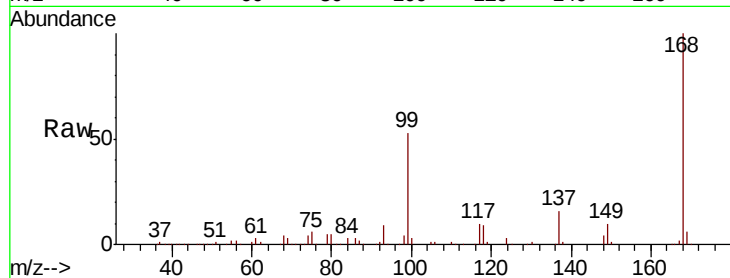




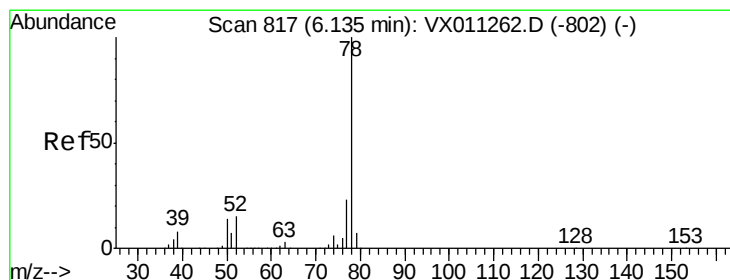
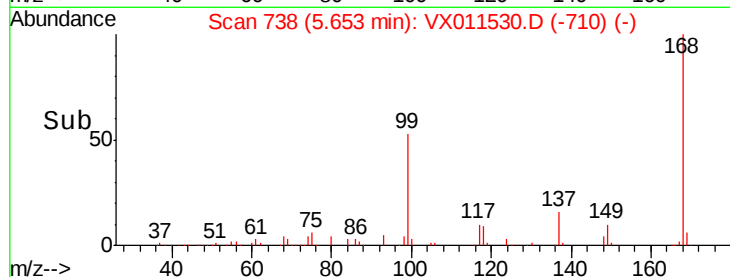
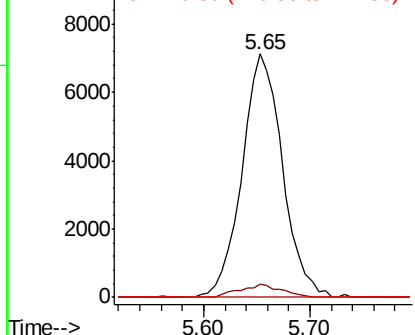
#38
Carbon Tetrachloride
Concen: 7.331 ug/l
RT: 5.65 min Scan# 738
Delta R.T. -0.13 min
Lab File: VX011530.D
Acq: 13 Aug 2019 12:57

Instrument :
MSVOA_X
ClientSampleId :
Z3-ER-2019-1

Tgt Ion:117 Resp: 18956
Ion Ratio Lower Upper
117 100
119 5.3 79.0 118.4#
121 0.0 25.9 38.9#

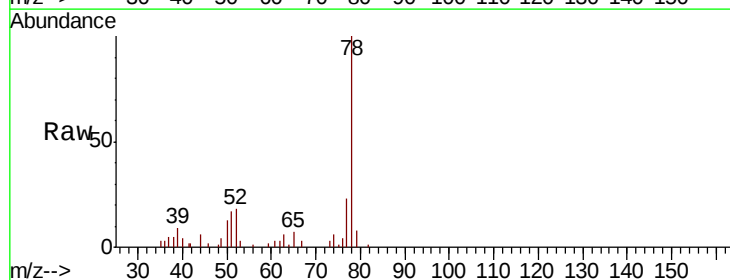


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

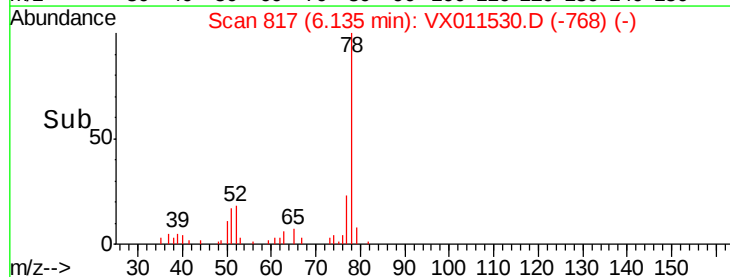
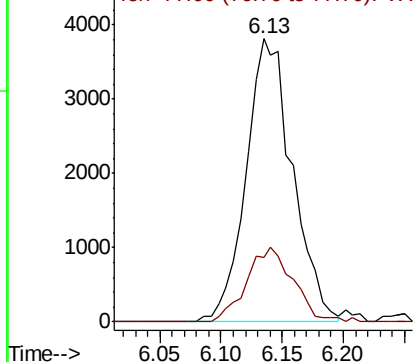


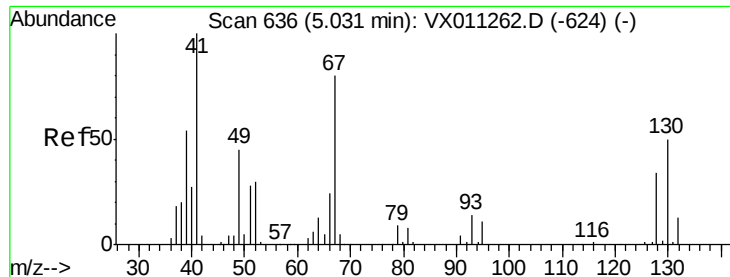
#40
Benzene
Concen: 1.313 ug/l
RT: 6.13 min Scan# 817
Delta R.T. 0.00 min
Lab File: VX011530.D
Acq: 13 Aug 2019 12:57

Tgt Ion: 78 Resp: 10066
Ion Ratio Lower Upper
78 100
77 22.7 18.2 27.2



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#41

Methacrylonitrile

Concen: 16.335 ug/l

RT: 5.13 min Scan# 652

Delta R.T. 0.10 min

Lab File: VX011530.D

Acq: 13 Aug 2019 12:57

Instrument :

MSVOA_X

ClientSampled :

Z3-ER-2019-1

Tgt Ion: 41 Resp: 22998

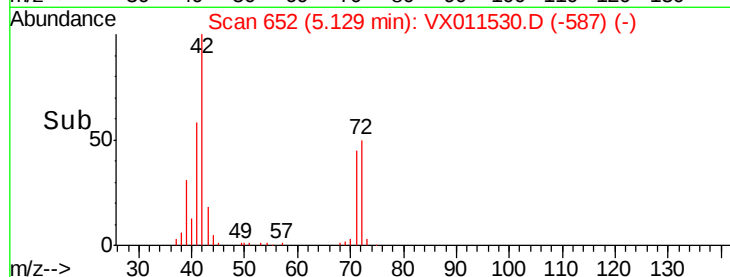
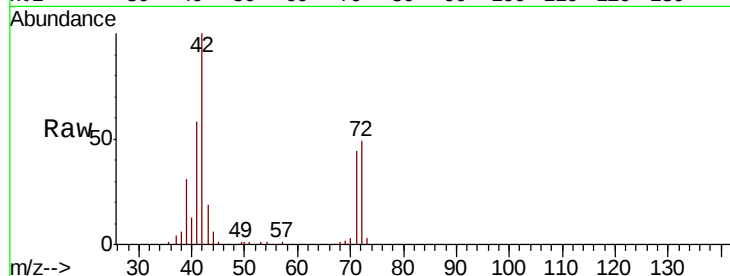
Ion Ratio Lower Upper

41 100

39 45.8 43.0 64.6

67 0.0 65.1 97.7#

52 0.5 24.8 37.2#

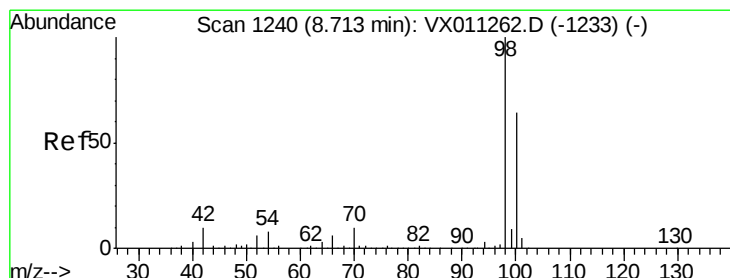
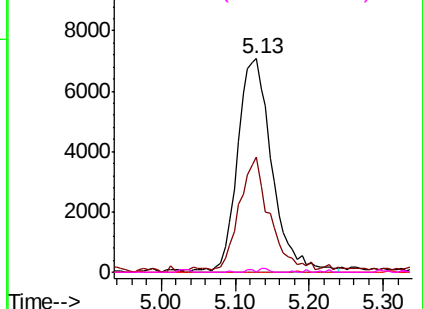


Abundance Ion 41.00 (40.70 to 41.70): VX0

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



#50

Toluene-d8

Concen: 47.307 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011530.D

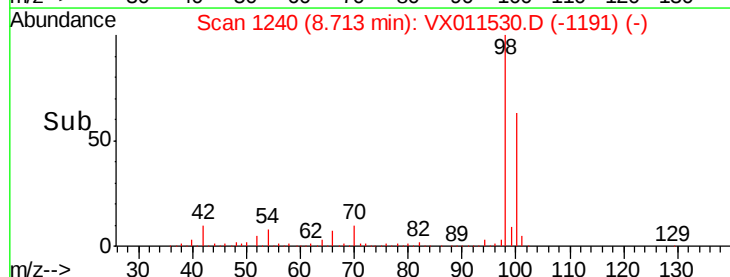
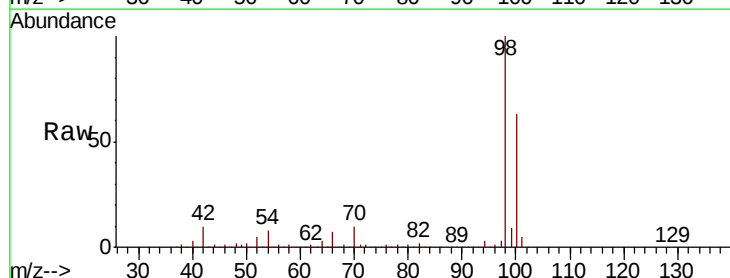
Acq: 13 Aug 2019 12:57

Tgt Ion: 98 Resp: 343180

Ion Ratio Lower Upper

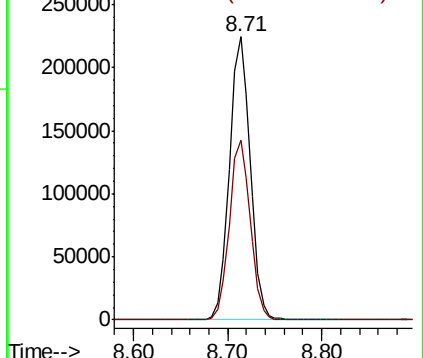
98 100

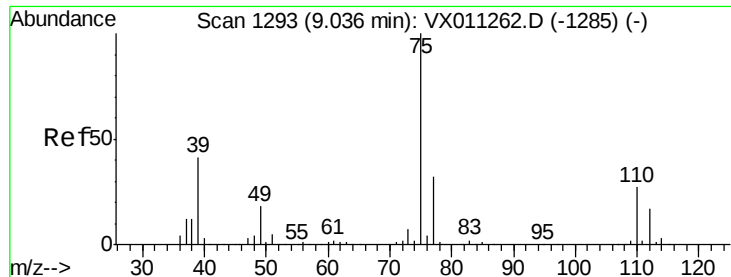
100 63.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

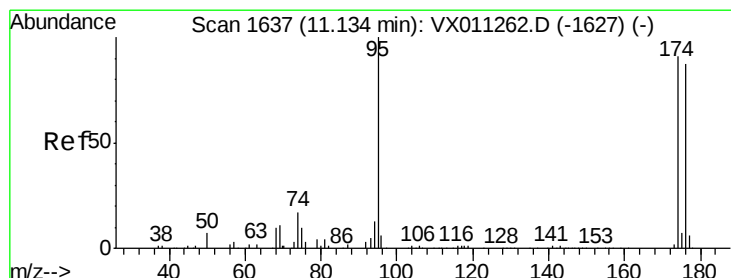
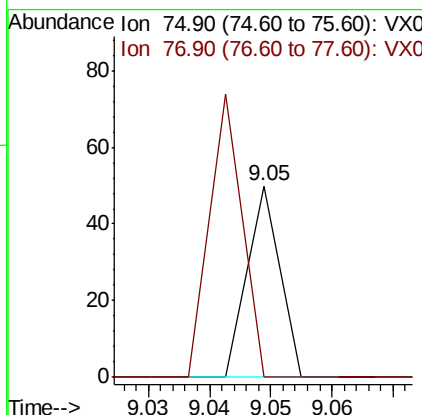
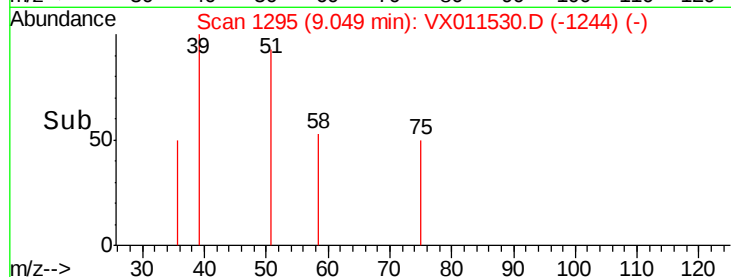
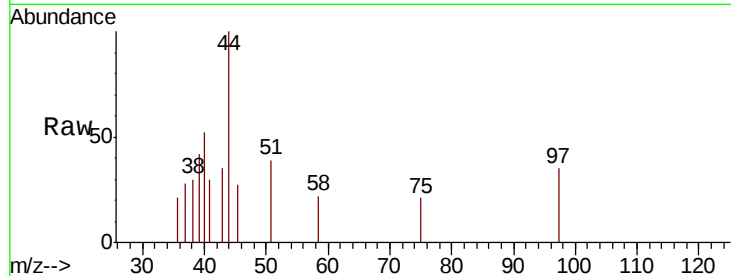




#53
t-1,3-Dichloropropene
Concen: 2.844 ug/l
RT: 9.05 min Scan# 1295
Delta R.T. 0.01 min
Lab File: VX011530.D
Acq: 13 Aug 2019 12:57

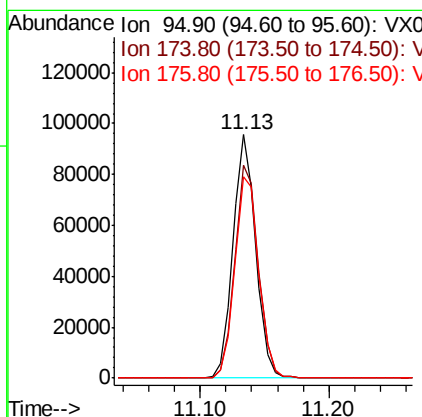
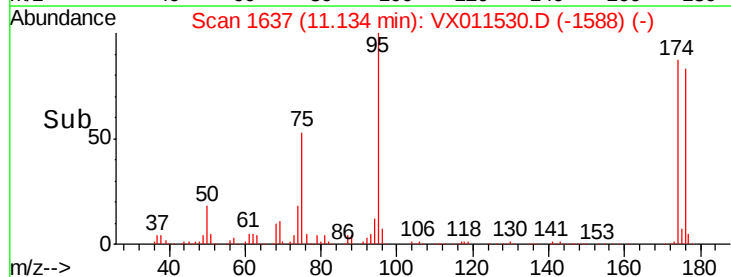
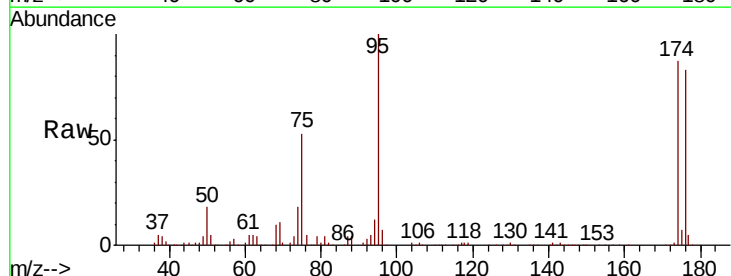
Instrument :
MSVOA_X
ClientSampleId :
Z3-ER-2019-1

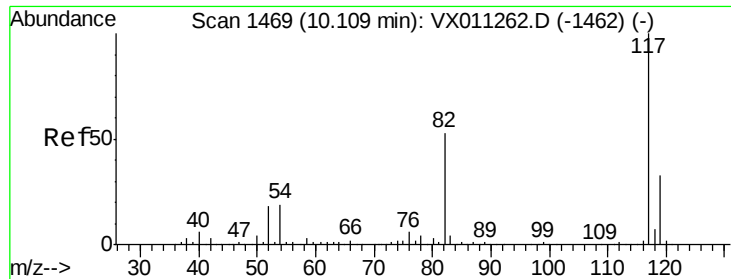
Tgt Ion: 75 Resp: 18
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#62
4-Bromofluorobenzene
Concen: 45.611 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011530.D
Acq: 13 Aug 2019 12:57

Tgt Ion: 95 Resp: 118132
Ion Ratio Lower Upper
95 100
174 90.3 0.0 191.2
176 86.9 0.0 184.8

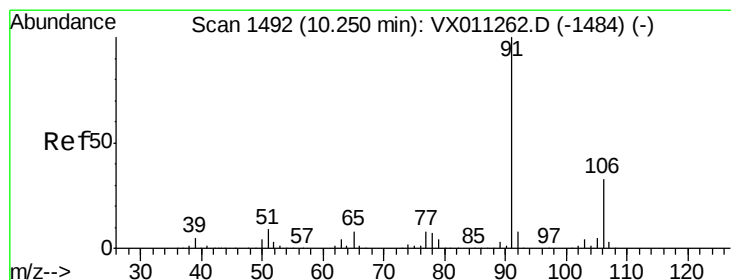
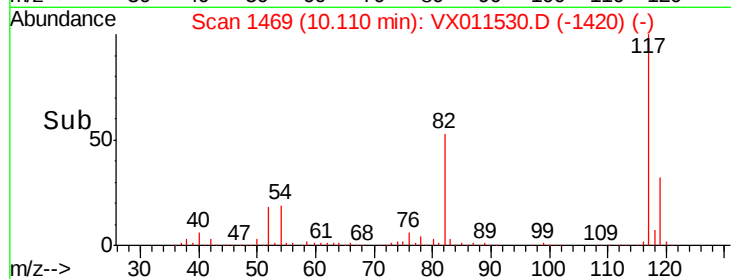
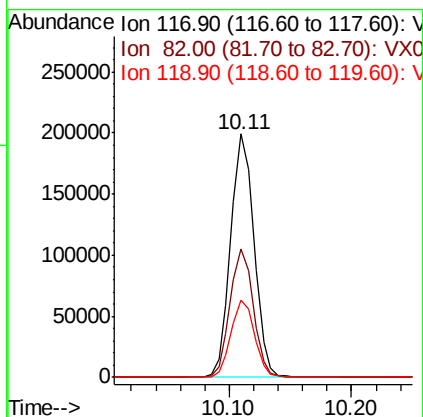
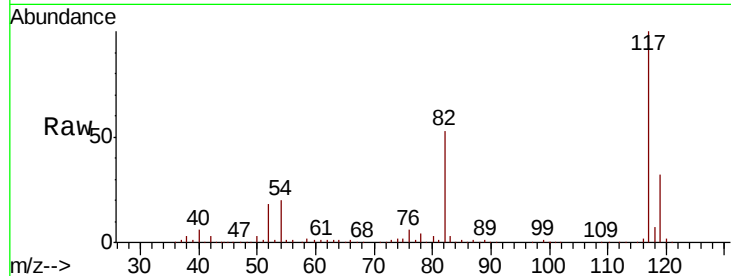




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011530.D
Acq: 13 Aug 2019 12:57

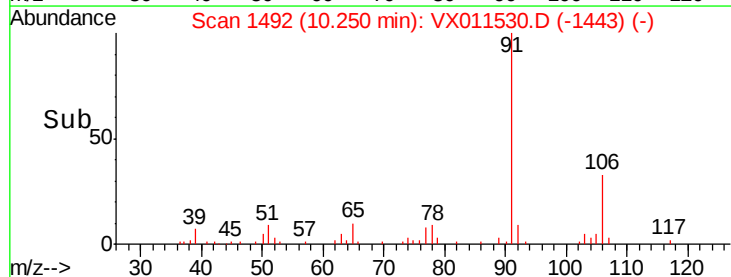
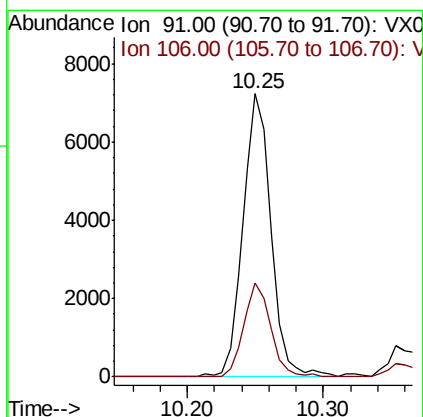
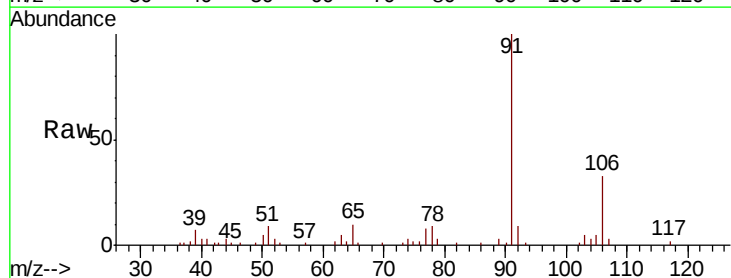
Instrument :
MSVOA_X
ClientSampled :
Z3-ER-2019-1

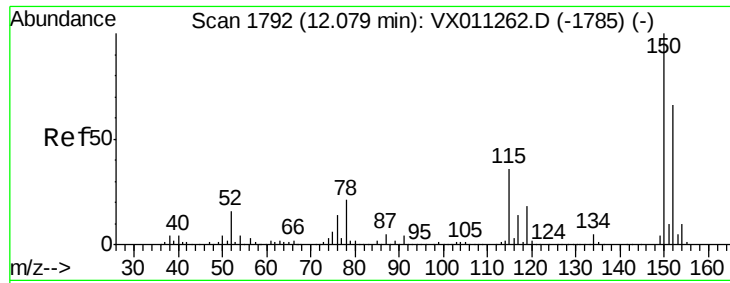
Tgt Ion: 117 Resp: 263120
Ion Ratio Lower Upper
117 100
82 52.7 42.2 63.2
119 31.7 26.6 39.8



#67
Ethyl Benzene
Concen: 1.099 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX011530.D
Acq: 13 Aug 2019 12:57

Tgt Ion: 91 Resp: 10384
Ion Ratio Lower Upper
91 100
106 33.3 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011530.D

Acq: 13 Aug 2019 12:57

Instrument :

MSVOA_X

ClientSampleId :

Z3-ER-2019-1

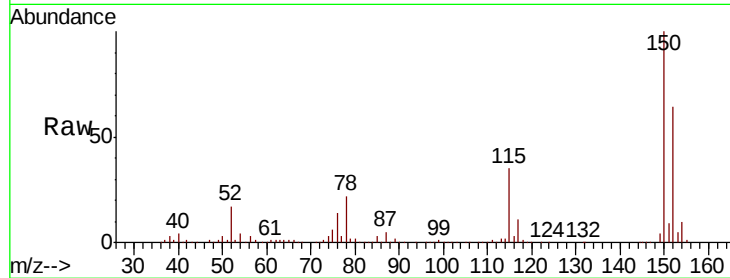
Tgt Ion:152 Resp: 124496

Ion Ratio Lower Upper

152 100

115 56.3 40.0 119.9

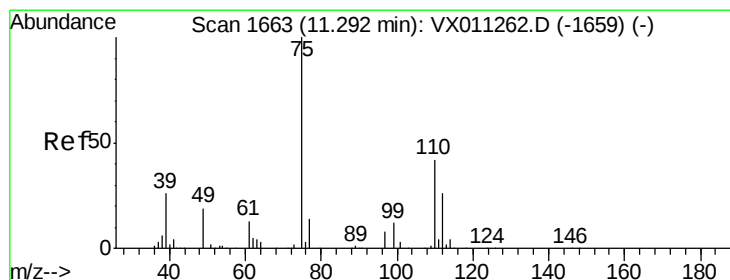
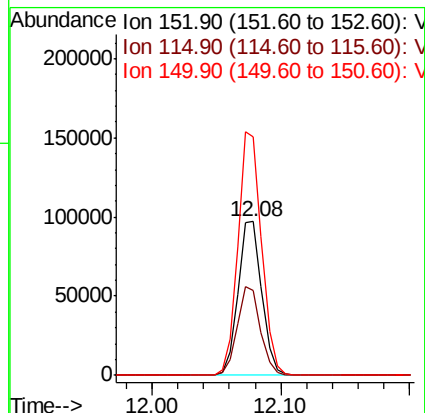
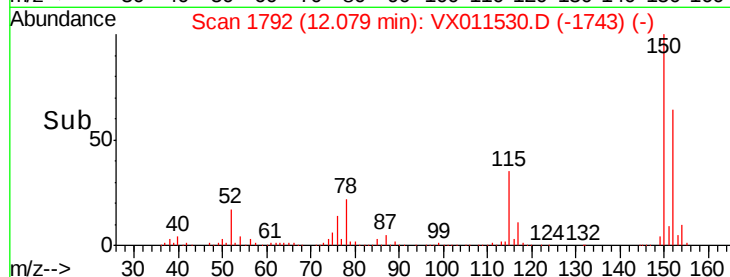
150 157.7 0.0 350.4



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: 26.829 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011530.D

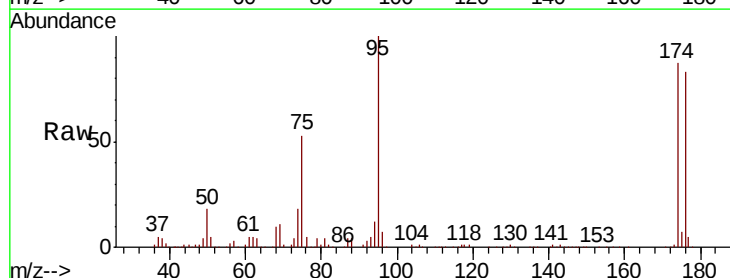
Acq: 13 Aug 2019 12:57

Tgt Ion: 75 Resp: 60828

Ion Ratio Lower Upper

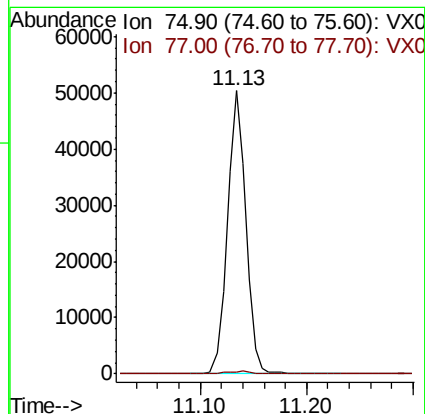
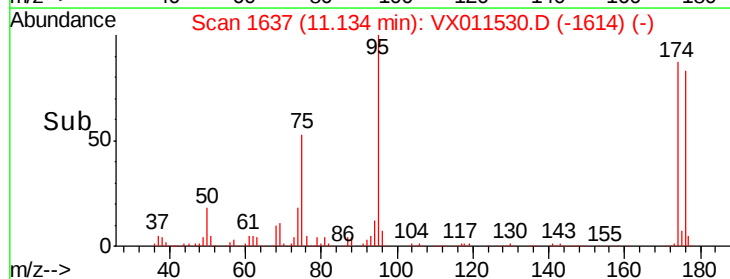
75 100

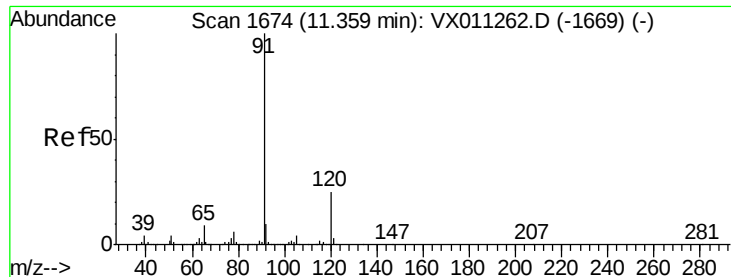
77 1.3 21.1 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 0.234 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX011530.D

Acq: 13 Aug 2019 12:57

Instrument :

MSVOA_X

ClientSampleId :

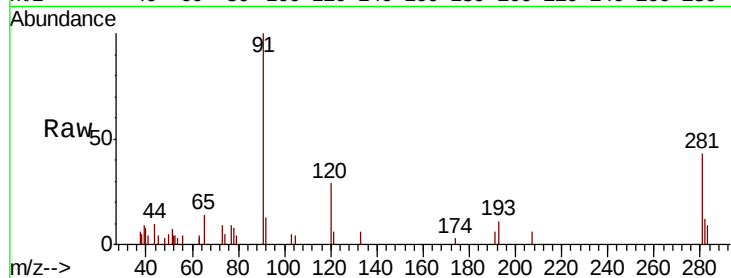
Z3-ER-2019-1

Tgt Ion: 91 Resp: 2213

Ion Ratio Lower Upper

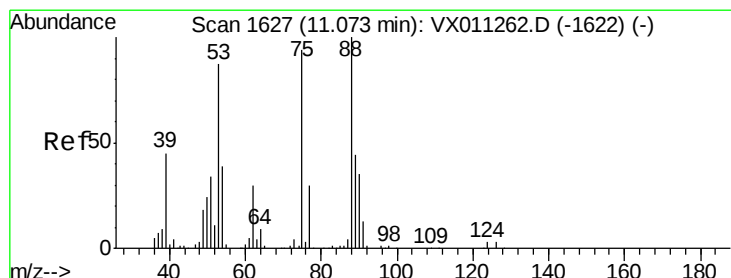
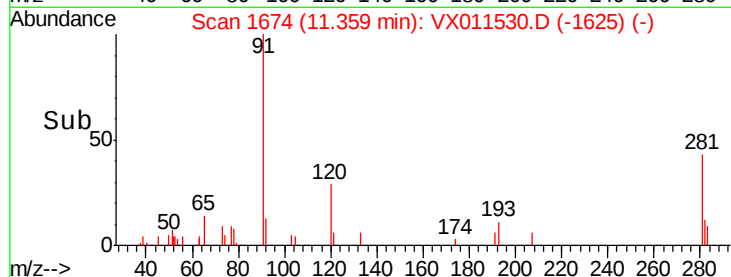
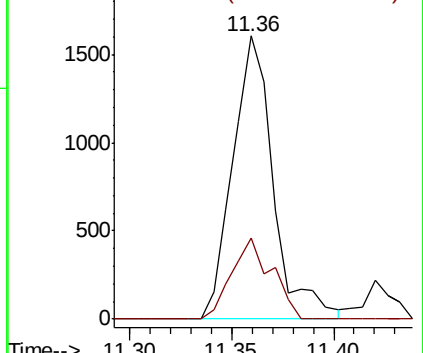
91 100

120 28.4 12.4 37.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 69.682 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011530.D

Acq: 13 Aug 2019 12:57

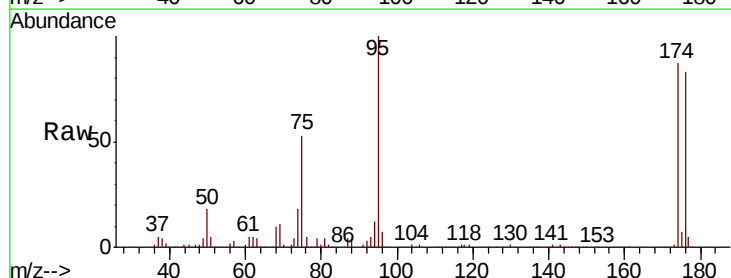
Tgt Ion: 75 Resp: 60828

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

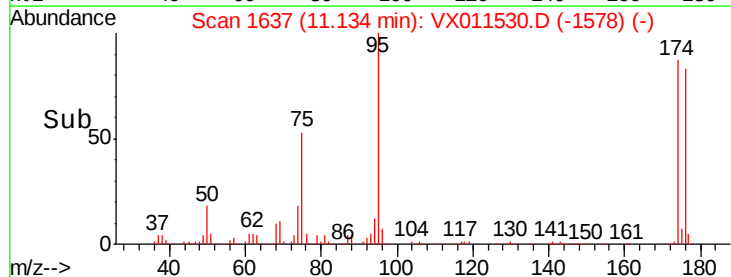
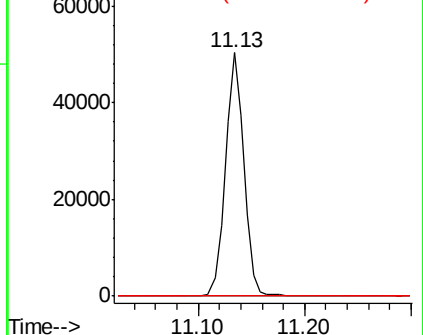
89 0.0 37.9 56.9#

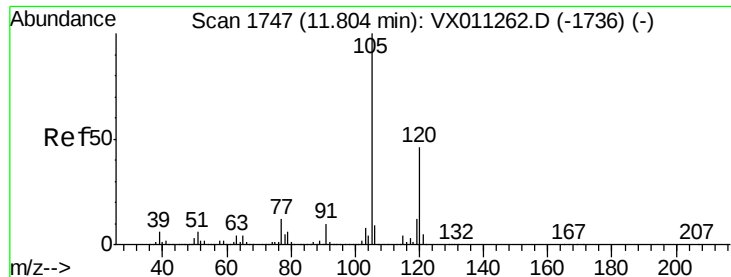


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

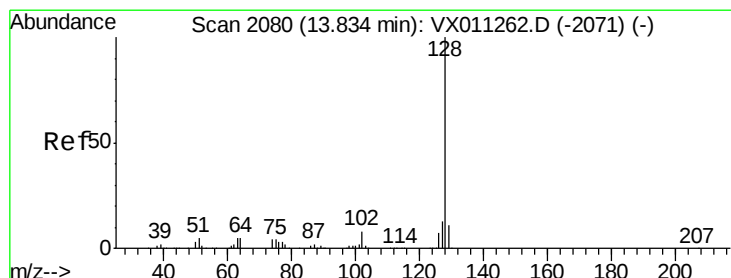
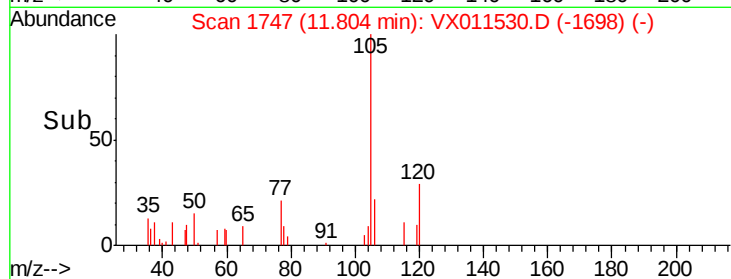
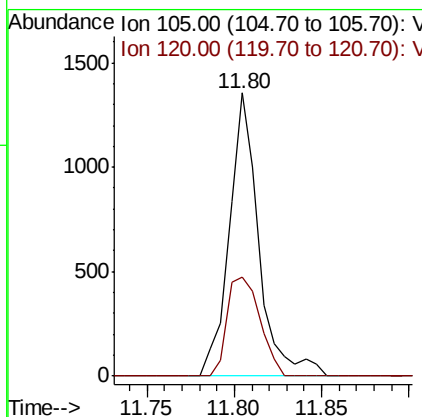
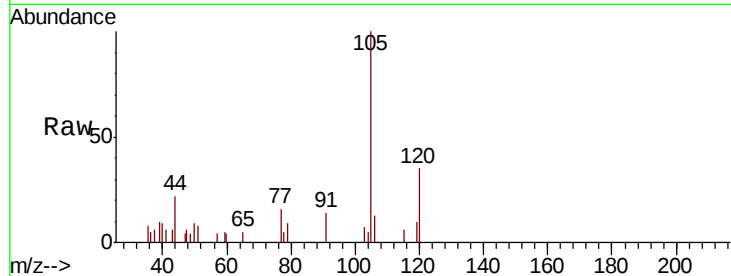




#84
 1,2,4-Trimethylbenzene
 Concen: 0.225 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX011530.D
 Acq: 13 Aug 2019 12:57

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-ER-2019-1

Tgt Ion:105 Resp: 1597
 Ion Ratio Lower Upper
 105 100
 120 38.8 23.0 69.0



#95
 Naphthalene
 Concen: 0.920 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX011530.D
 Acq: 13 Aug 2019 12:57

Tgt Ion:128 Resp: 7480
 Ion Ratio Lower Upper
 128 100
 127 15.4 10.4 15.6
 129 12.7 8.9 13.3

