

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101218\
 Data File : VX005301.D
 Acq On : 12 Oct 2018 18:45
 Operator : JC/MD
 Sample : J5458-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RAV-RAINEY-BEFORE-10-03-18

Quant Time: Oct 13 02:37:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	283434	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	393349	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	330046	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	159637	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	169942	54.02	ug/l	-0.01
Spiked Amount			Recovery	=	108.04%	
35) Dibromofluoromethane	5.51	113	129238	49.61	ug/l	0.01
Spiked Amount			Recovery	=	99.22%	
50) Toluene-d8	8.71	98	442449	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
62) 4-Bromofluorobenzene	11.14	95	143873	42.82	ug/l	0.00
Spiked Amount			Recovery	=	85.64%	

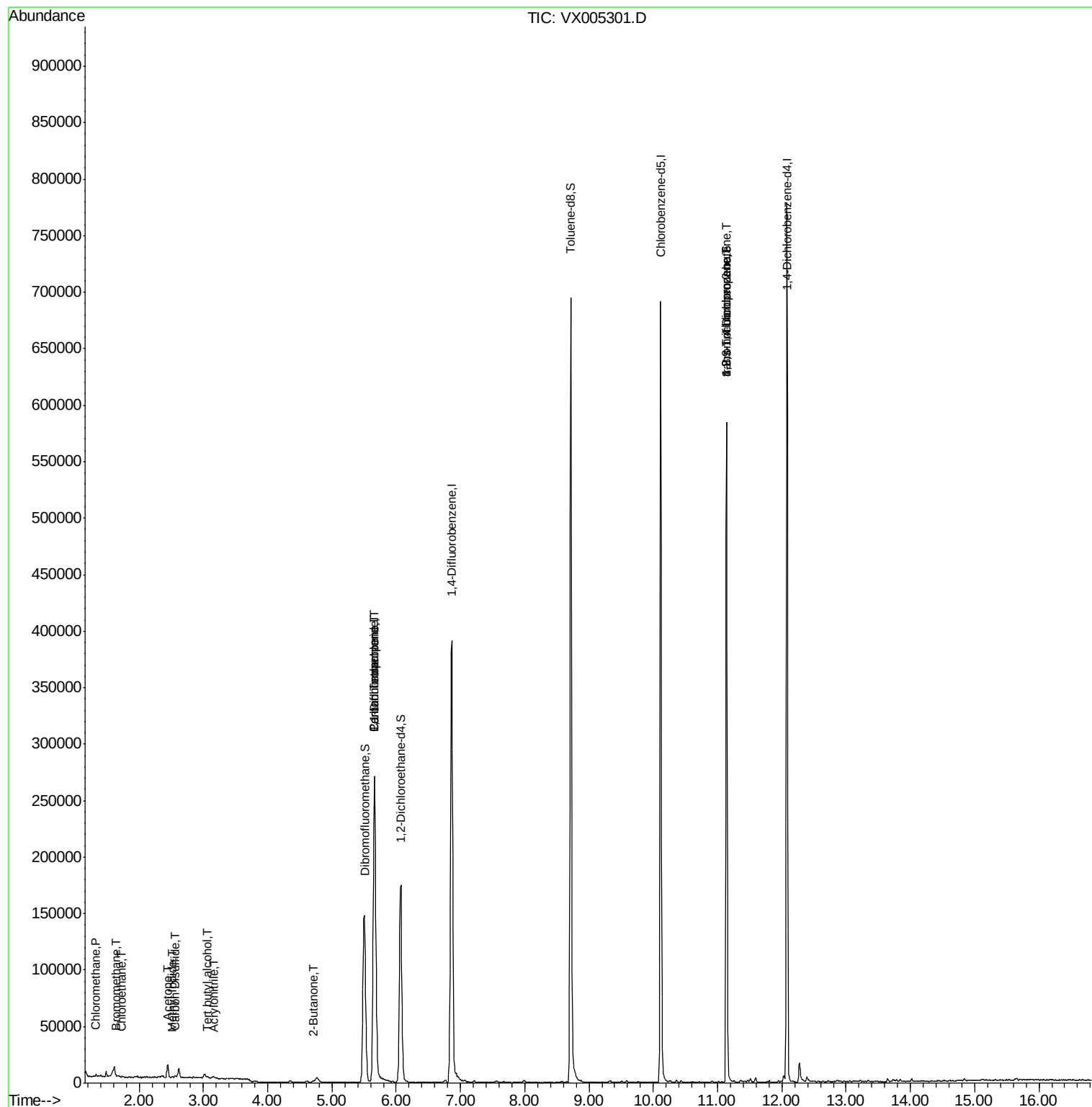
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	684	0.213	ug/l #	62
5) Bromomethane	1.64	94	762	0.994	ug/l	88
6) Chloroethane	1.73	64	116	0.389	ug/l #	49
10) Methyl Iodide	2.51	142	884	2.795	ug/l	95
11) Tert butyl alcohol	3.06	59	1469	1.655	ug/l #	83
13) Acrolein	2.28	56	243	Below Cal	#	74
15) Acrylonitrile	3.15	53	654	0.325	ug/l	89
16) Acetone	2.45	43	12535	6.892	ug/l	95
17) Carbon Disulfide	2.57	76	2185	0.291	ug/l	100
20) Methylene Chloride	2.85	84	382	Below Cal	#	79
25) 2-Butanone	4.71	43	2641	0.992	ug/l	99
36) 1,1-Dichloropropene	5.66	75	19510	5.121	ug/l #	49
38) Carbon Tetrachloride	5.67	117	25514	6.665	ug/l #	16
44) Trichloroethene	7.21	130	620	Below Cal		92
76) 1,2,3-Trichloropropane	11.14	75	71358	23.045	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	71358	70.021	ug/l #	10

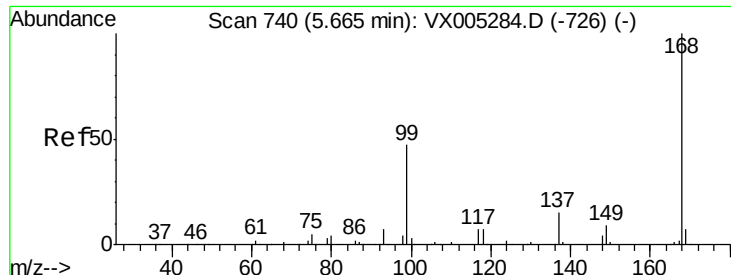
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration

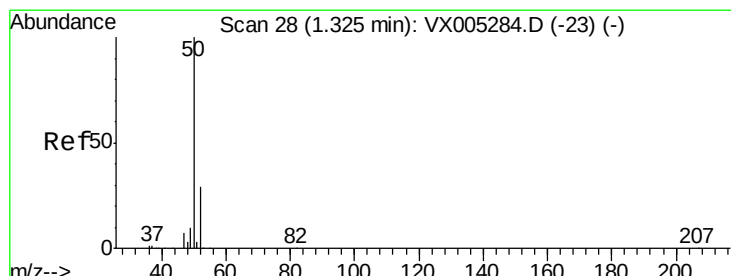
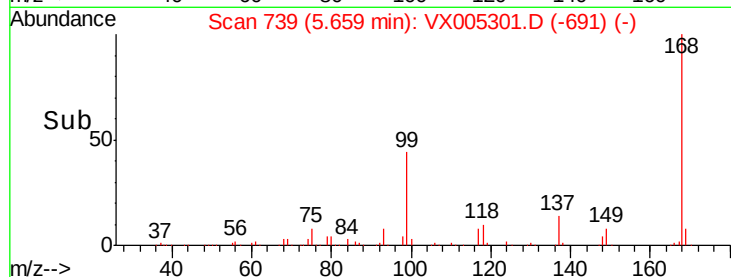
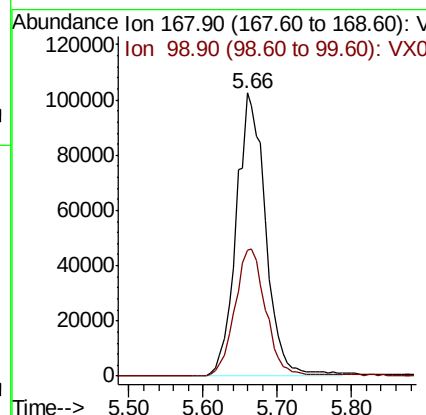
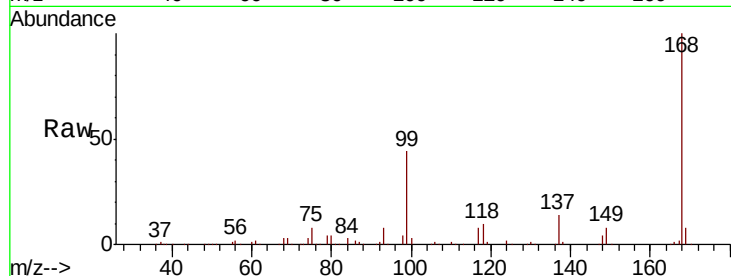




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.01 min
Lab File: VX005301.D
Acq: 12 Oct 2018 18:45

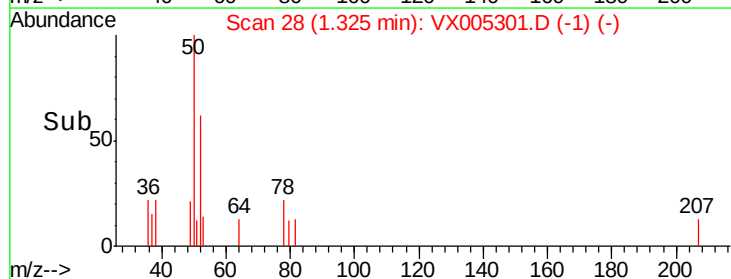
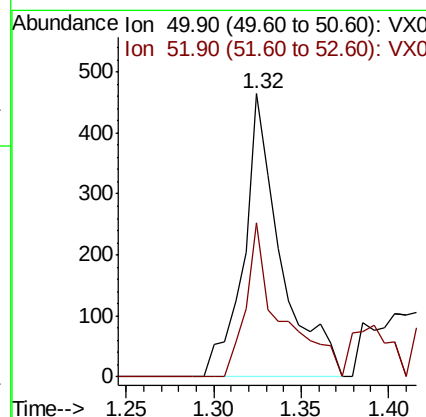
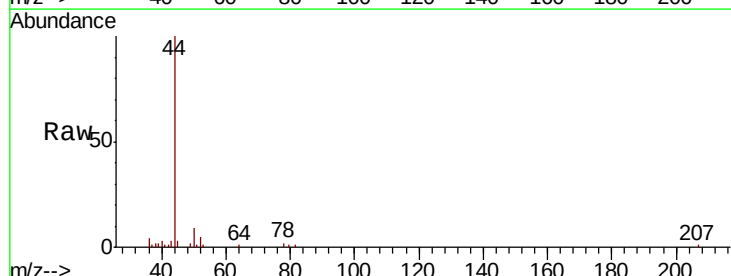
Instrument :
MSVOA_X
ClientSampleId :
RAV-RAINEY-BEFORE-10-03-18

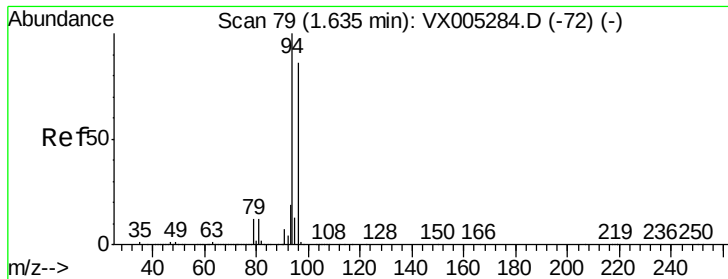
Tot Ion:168 Resp: 283434
Ion Ratio Lower Upper
168 100
99 44.4 39.9 59.9



#3
Chloromethane
Concen: 0.213 ug/l
RT: 1.32 min Scan# 28
Delta R.T. 0.00 min
Lab File: VX005301.D
Acq: 12 Oct 2018 18:45

Tgt Ion: 50 Resp: 684
Ion Ratio Lower Upper
50 100
52 54.3 26.2 39.2#





#5

Bromomethane

Concen: 0.994 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005301.D

Acq: 12 Oct 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

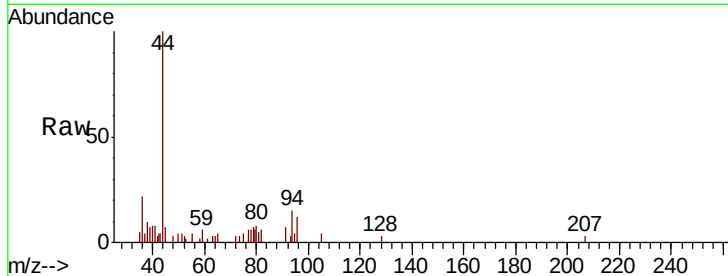
RAV-RAINEY-BEFORE-10-03-18

Tot Ion: 94 Resp: 762

Ion Ratio Lower Upper

94 100

96 81.1 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

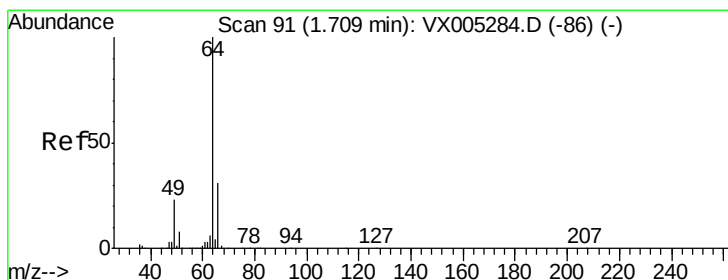
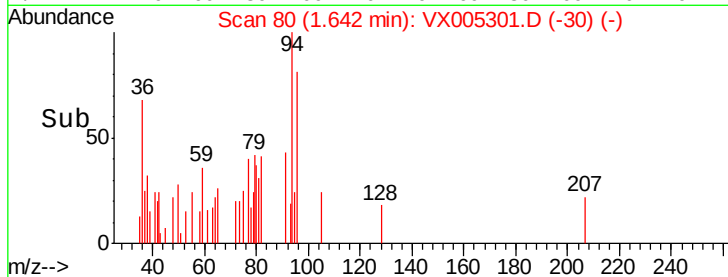
300

200

100

0

Time-->



#6

Chloroethane

Concen: 0.389 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.02 min

Lab File: VX005301.D

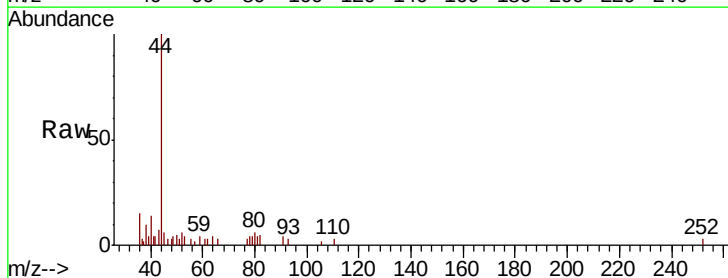
Acq: 12 Oct 2018 18:45

Tgt Ion: 64 Resp: 116

Ion Ratio Lower Upper

64 100

66 58.4 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

120

100

80

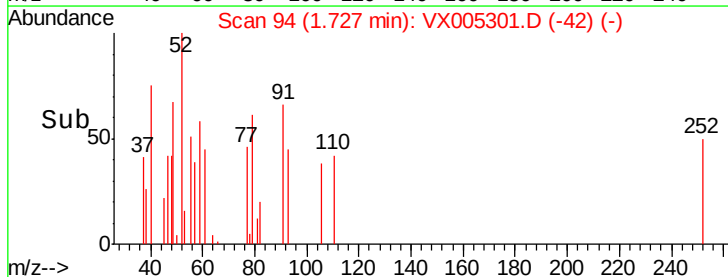
60

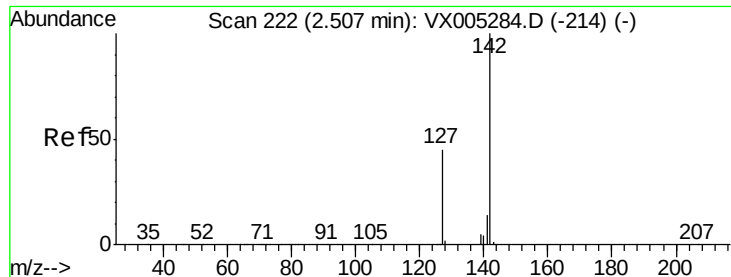
40

20

0

Time-->

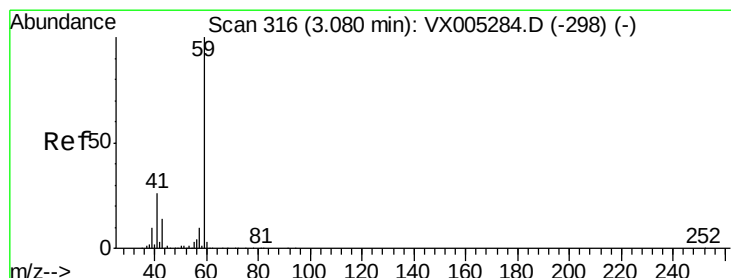
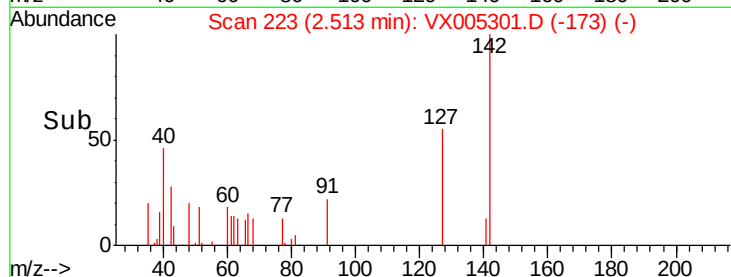
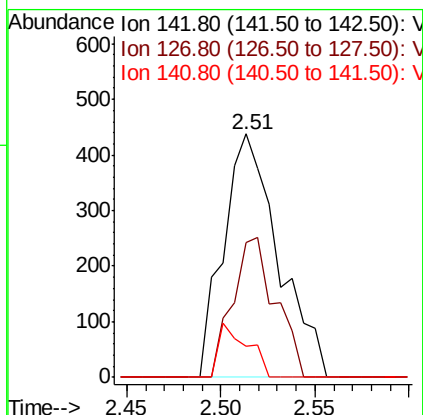
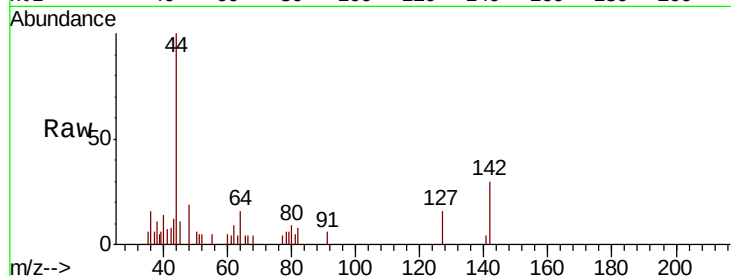




#10
Methvl Iodide
Concen: 2.795 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX005301.D
Acq: 12 Oct 2018 18:45

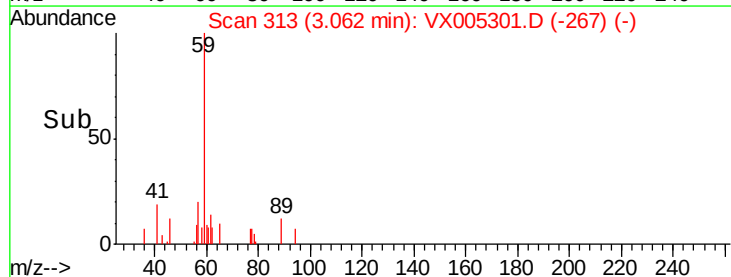
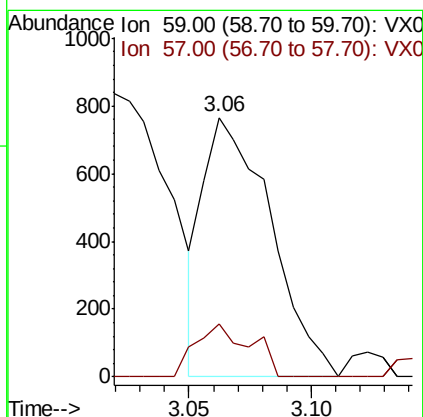
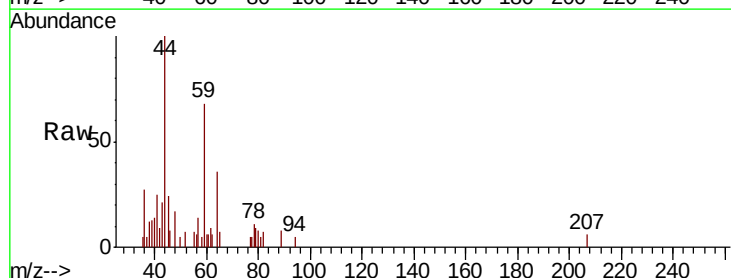
Instrument :
MSVOA_X
ClientSampleId :
RAV-RAINEY-BEFORE-10-03-18

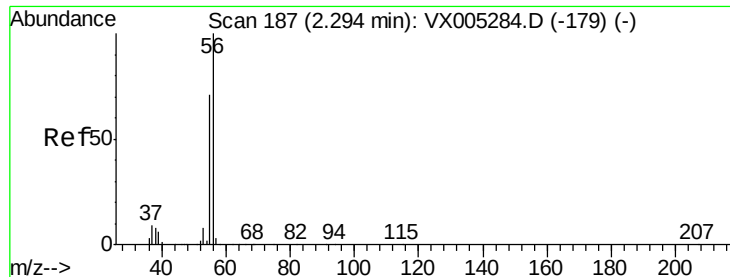
Tot Ion:142 Resp: 884
Ion Ratio Lower Upper
142 100
127 44.8 33.8 50.6
141 11.8 11.4 17.0



#11
Tert butyl alcohol
Concen: 1.655 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX005301.D
Acq: 12 Oct 2018 18:45

Tgt Ion: 59 Resp: 1469
Ion Ratio Lower Upper
59 100
57 16.5 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX005301.D

Acq: 12 Oct 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

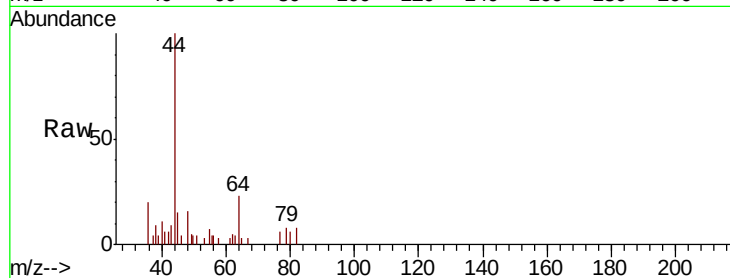
RAV-RAINEY-BEFORE-10-03-18

Tot Ion: 56 Resp: 243

Ion Ratio Lower Upper

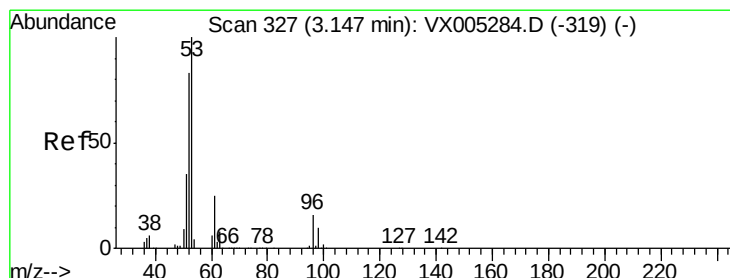
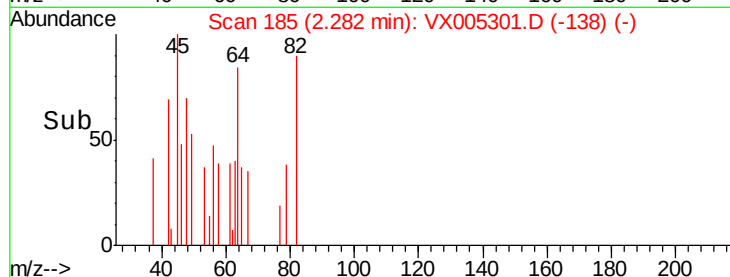
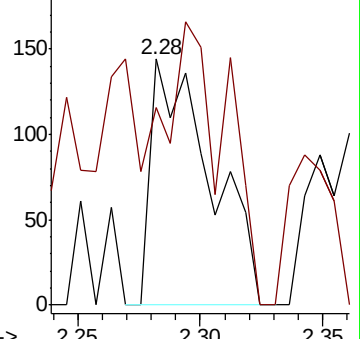
56 100

55 89.7 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.325 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX005301.D

Acq: 12 Oct 2018 18:45

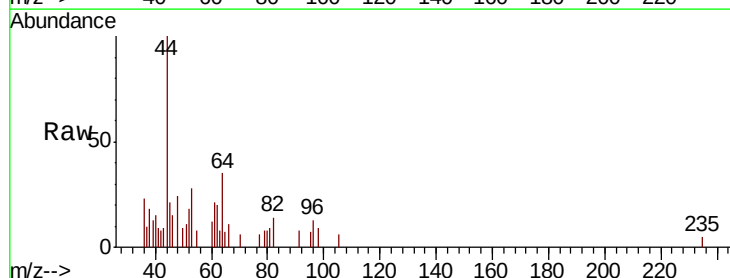
Tgt Ion: 53 Resp: 654

Ion Ratio Lower Upper

53 100

52 90.8 65.2 97.8

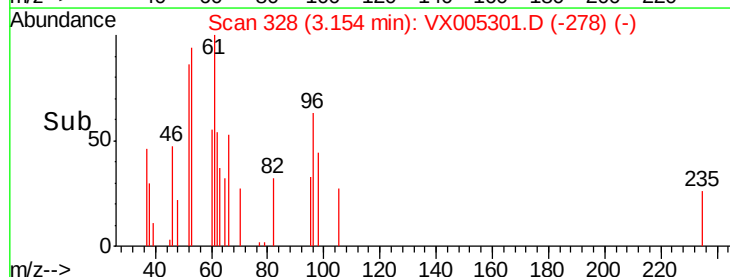
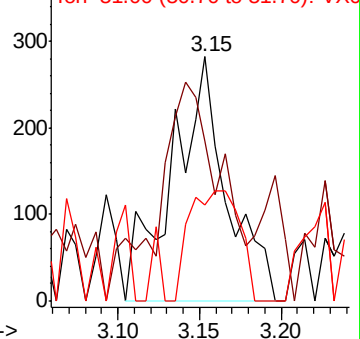
51 41.9 28.2 42.2

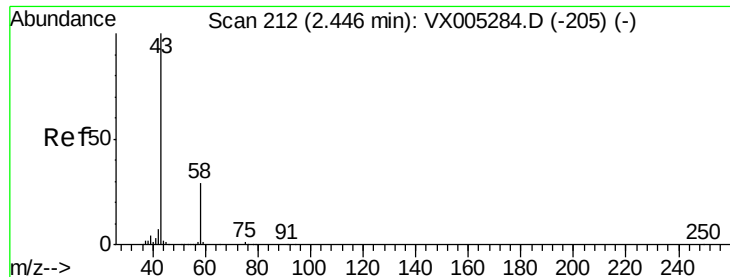


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 6.892 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005301.D

Acq: 12 Oct 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

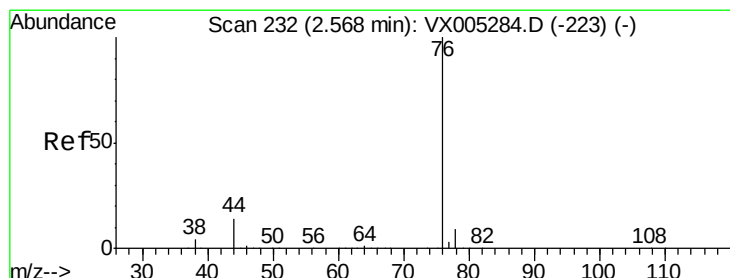
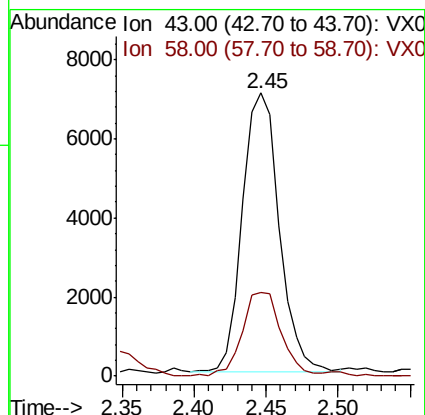
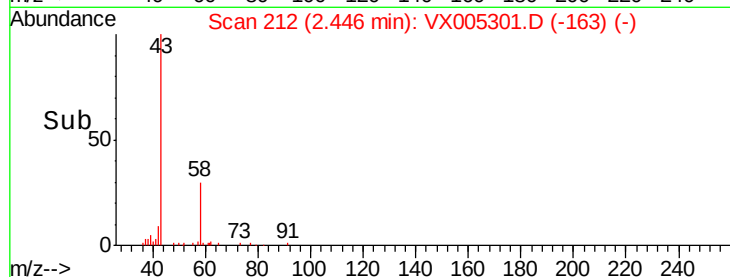
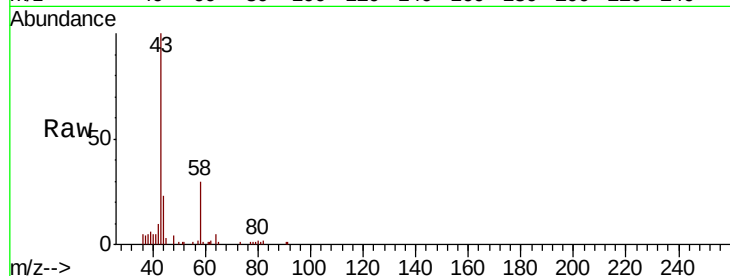
RAV-RAINEY-BEFORE-10-03-18

Tot Ion: 43 Resp: 12535

Ion Ratio Lower Upper

43 100

58 30.0 26.2 39.4



#17

Carbon Disulfide

Concen: 0.291 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX005301.D

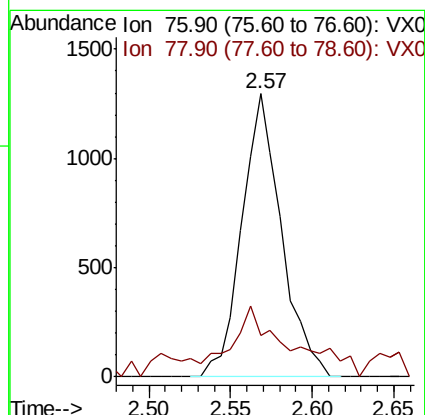
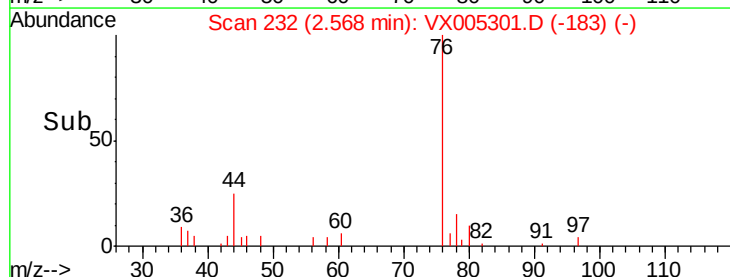
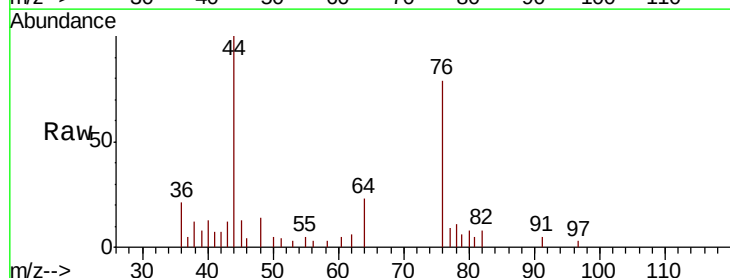
Acq: 12 Oct 2018 18:45

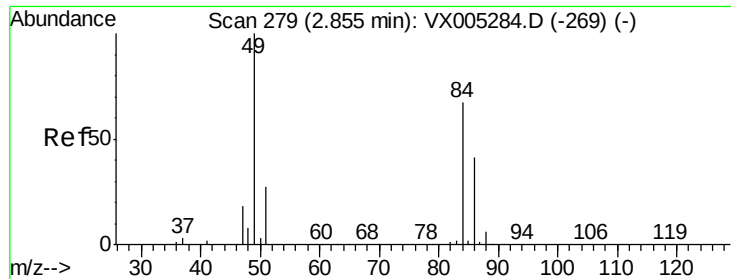
Tgt Ion: 76 Resp: 2185

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.6

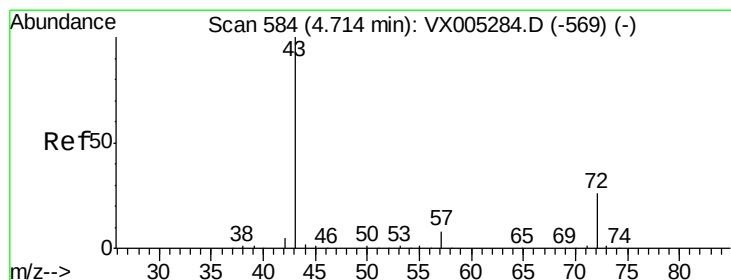
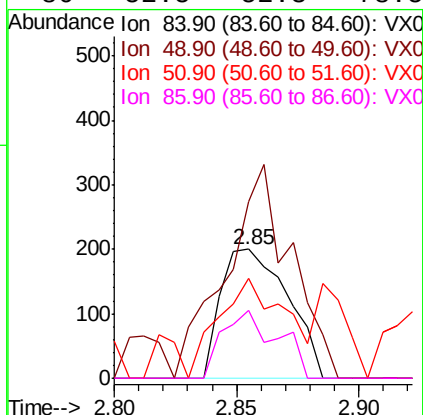
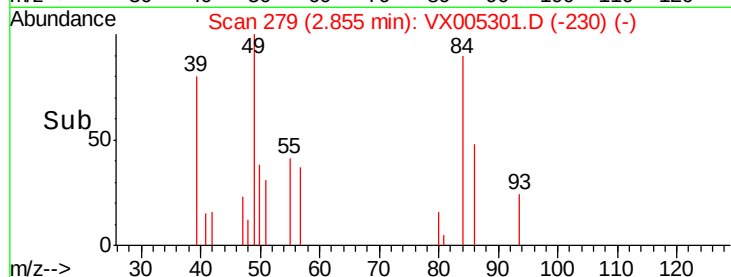
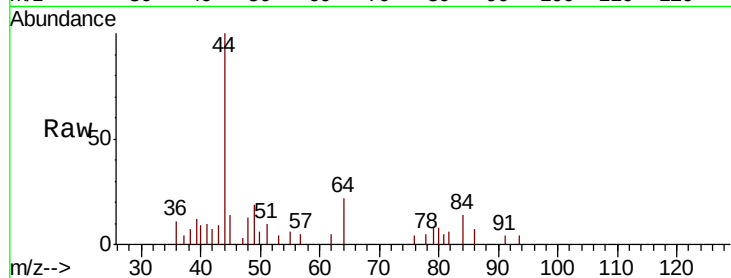




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005301.D
Acq: 12 Oct 2018 18:45

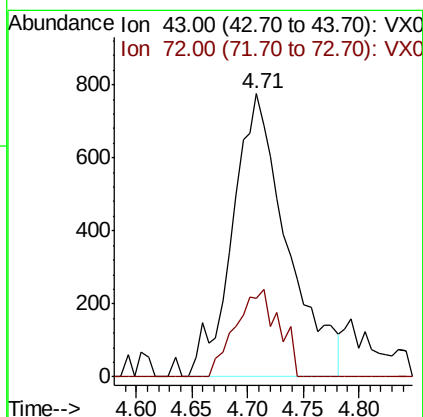
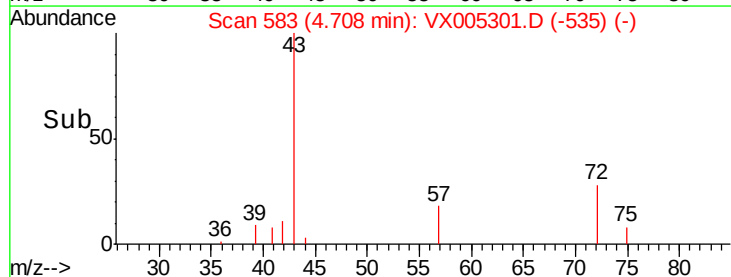
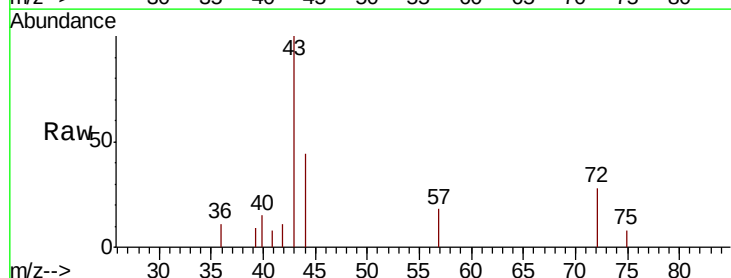
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RAV-RAINEY-BEFORE-10-03-18

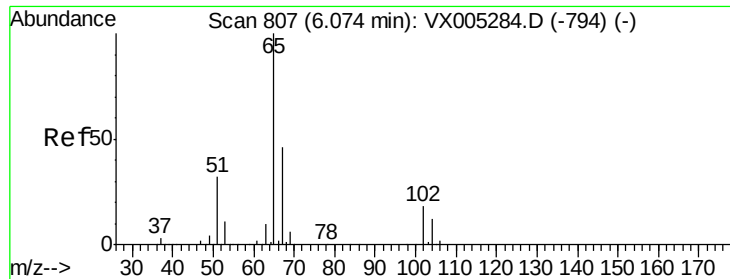
Tot Ion: 84 Resp: 382
Ion Ratio Lower Upper
84 100
49 137.0 101.2 151.8
51 77.5 29.5 44.3#
86 52.5 52.3 78.5



#25
2-Butanone
Concen: 0.992 ug/l
RT: 4.71 min Scan# 583
Delta R.T. -0.01 min
Lab File: VX005301.D
Acq: 12 Oct 2018 18:45

Tgt Ion: 43 Resp: 2641
Ion Ratio Lower Upper
43 100
72 28.0 22.0 33.0

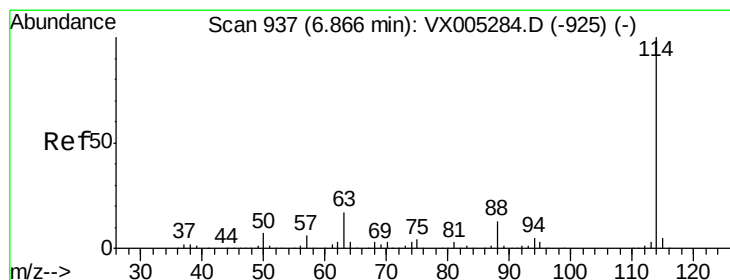
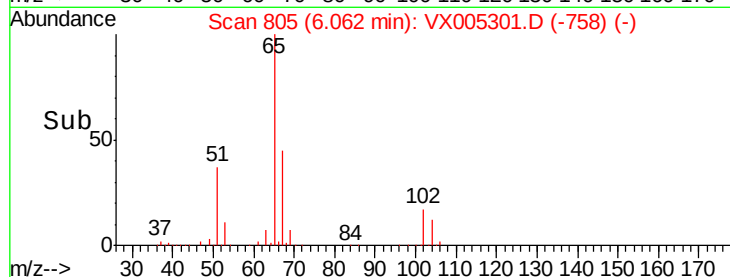
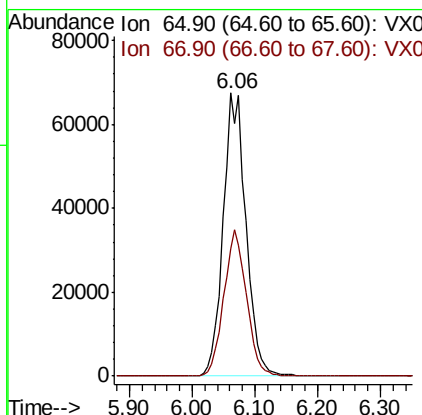
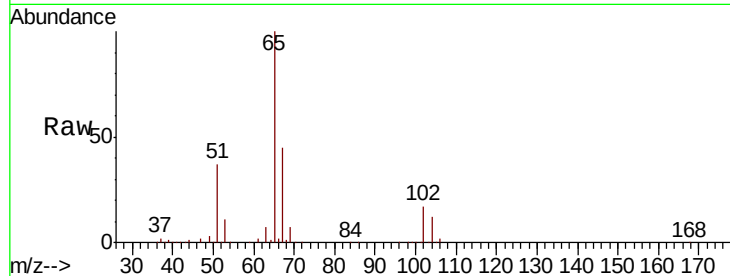




#33
 1,2-Dichloroethane-d4
 Concen: 54.024 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: VX005301.D
 Acq: 12 Oct 2018 18:45

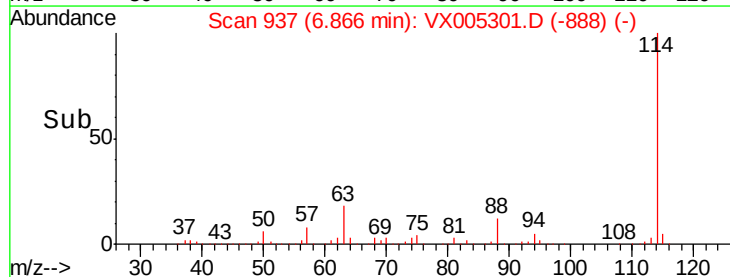
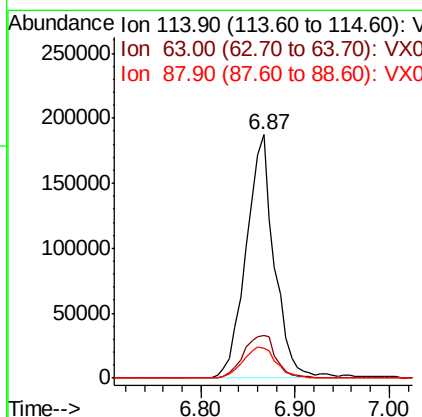
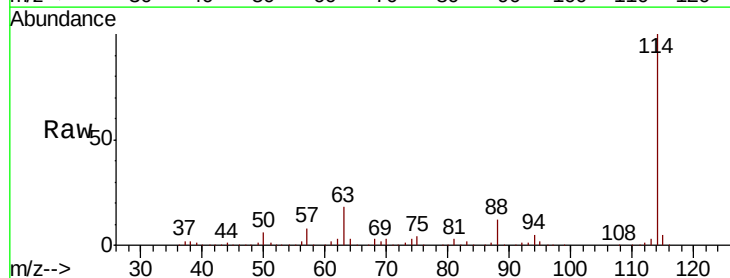
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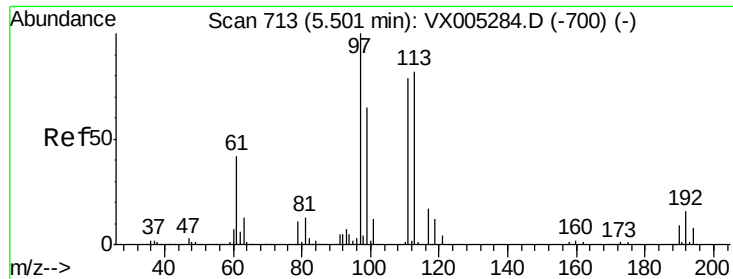
Tot Ion: 65 Resp: 169942
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.00 min
 Lab File: VX005301.D
 Acq: 12 Oct 2018 18:45

Tgt Ion: 114 Resp: 393349
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 39.0
 88 12.3 0.0 30.4

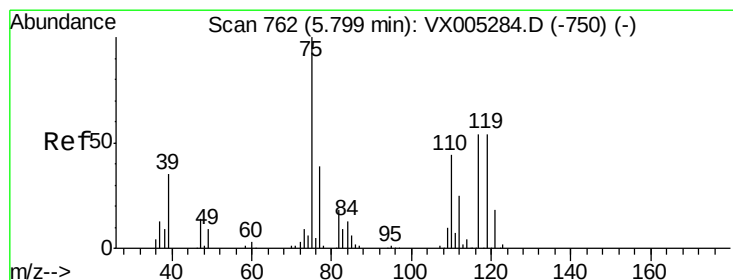
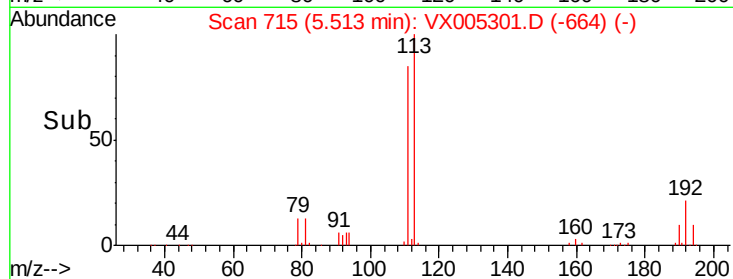
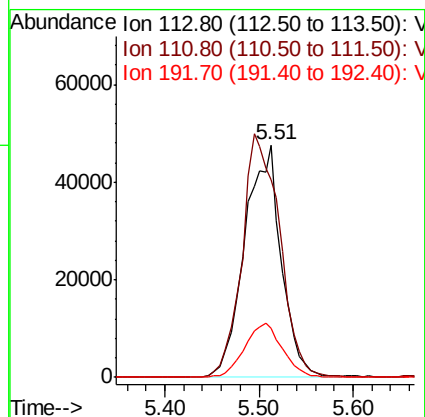
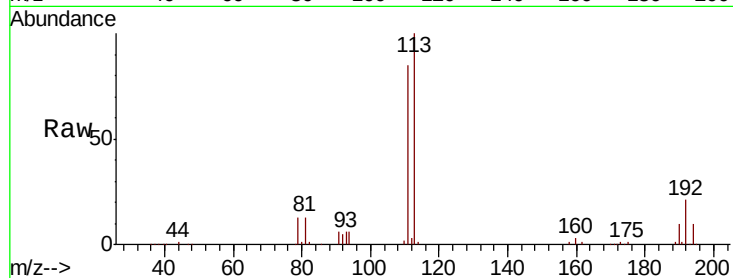




#35
 Dibromofluoromethane
 Concen: 49.607 ug/l
 RT: 5.51 min Scan# 715
 Delta R.T. 0.01 min
 Lab File: VX005301.D
 Acq: 12 Oct 2018 18:45

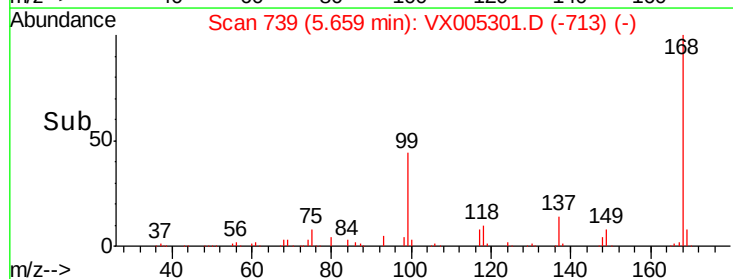
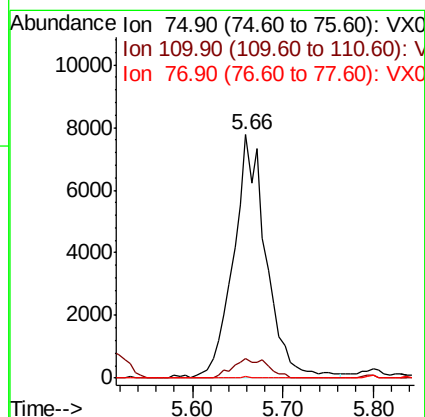
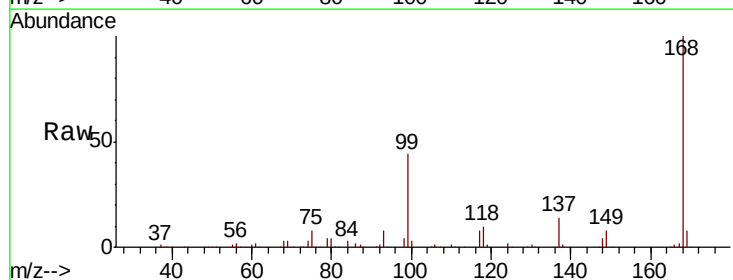
Instrument :
 MSVOA_X
 ClientSampleId :
 RAV-RAINEY-BEFORE-10-03-18

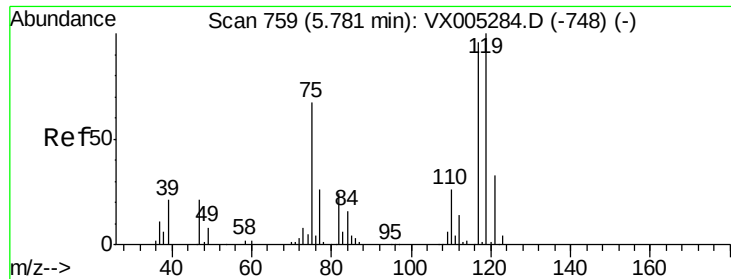
Tot Ion:113 Resp: 129238
 Ion Ratio Lower Upper
 113 100
 111 107.9 82.4 123.6
 192 24.0 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 5.121 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005301.D
 Acq: 12 Oct 2018 18:45

Tgt Ion: 75 Resp: 19510
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.0 54.0#
 77 0.1 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.665 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005301.D

Acq: 12 Oct 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

RAV-RAINEY-BEFORE-10-03-18

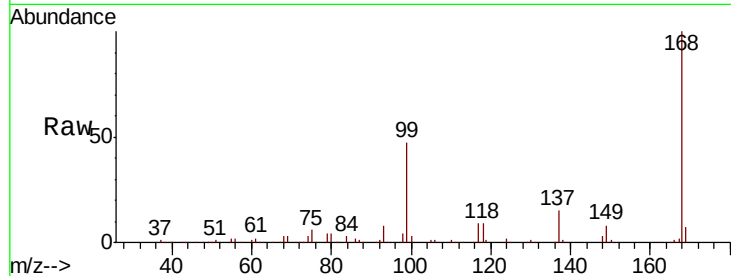
Tot Ion:117 Resp: 25514

Ion Ratio Lower Upper

117 100

119 6.2 78.8 118.2#

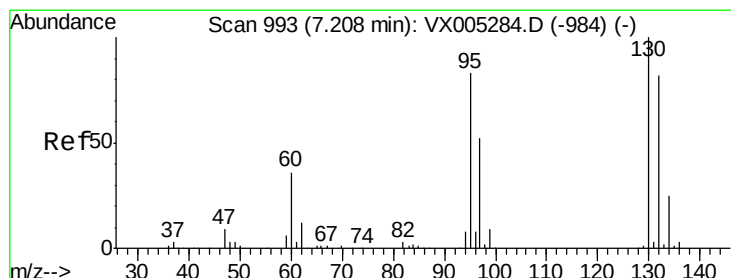
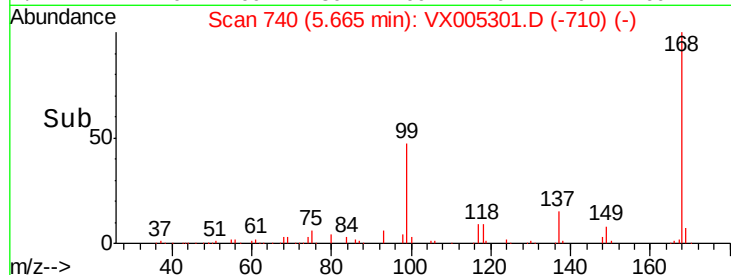
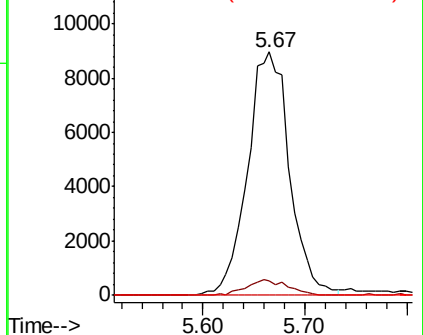
121 0.0 24.9 37.3#



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: Below Cal

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005301.D

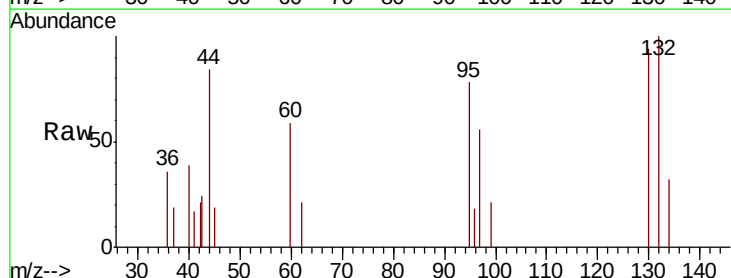
Acq: 12 Oct 2018 18:45

Tgt Ion:130 Resp: 620

Ion Ratio Lower Upper

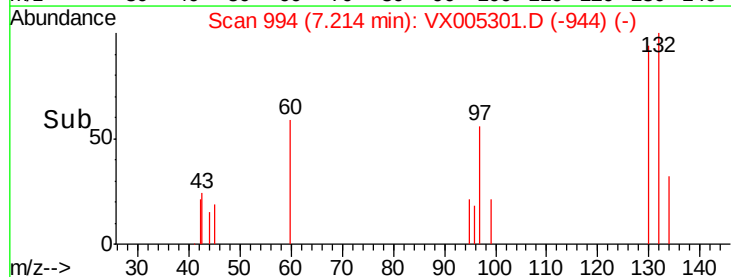
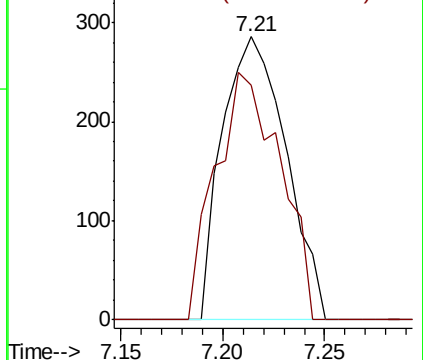
130 100

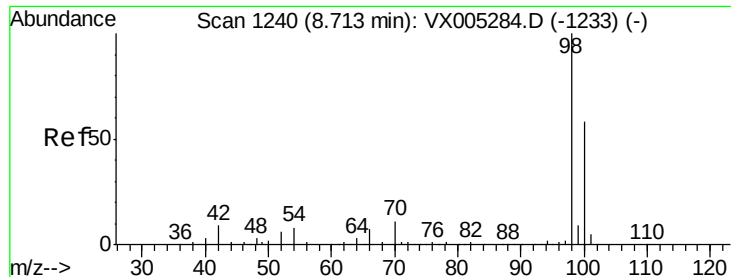
95 82.9 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 49.469 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005301.D

Acq: 12 Oct 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

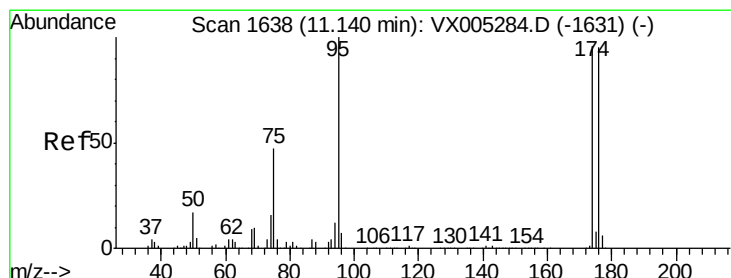
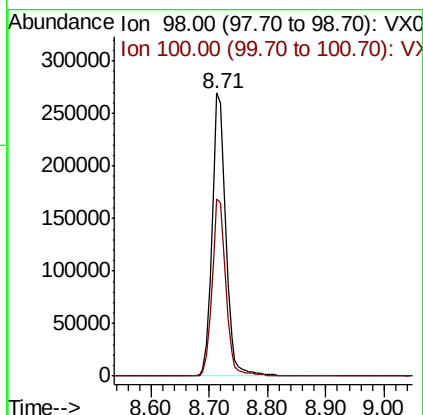
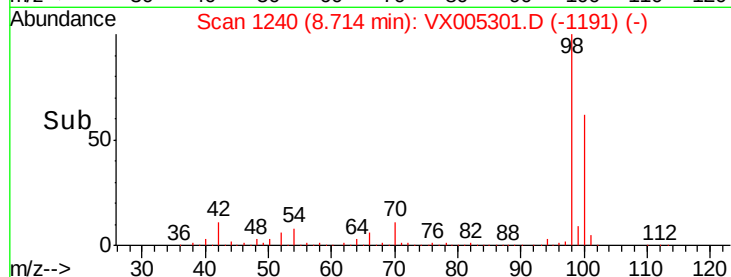
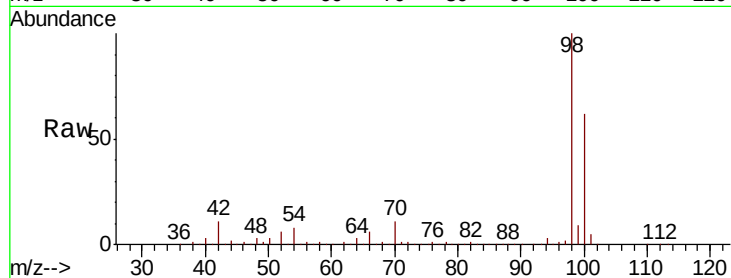
RAV-RAINEY-BEFORE-10-03-18

Tot Ion: 98 Resp: 442449

Ion Ratio Lower Upper

98 100

100 62.8 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 42.820 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005301.D

Acq: 12 Oct 2018 18:45

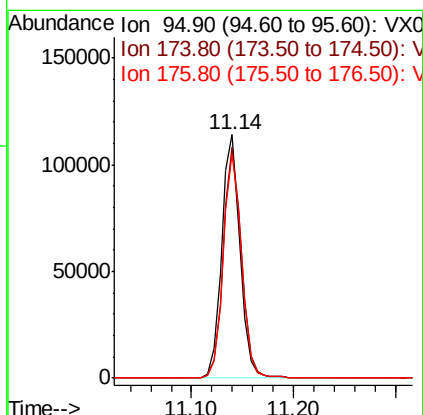
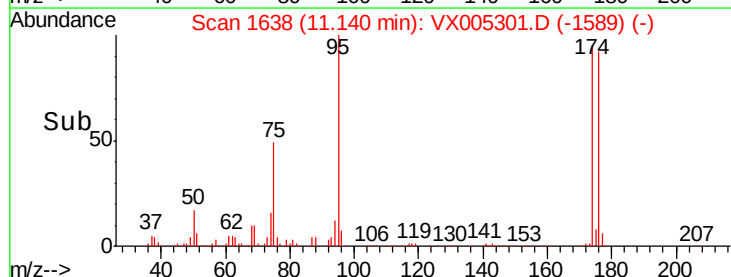
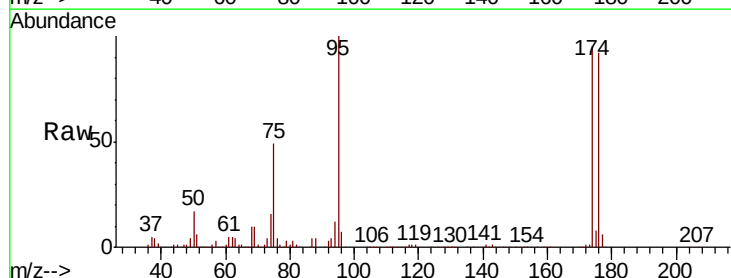
Tgt Ion: 95 Resp: 143873

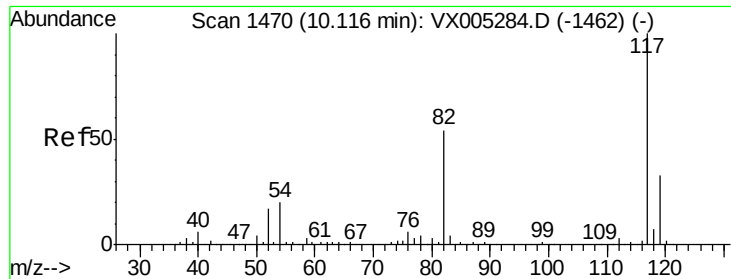
Ion Ratio Lower Upper

95 100

174 94.2 0.0 185.2

176 91.2 0.0 178.6

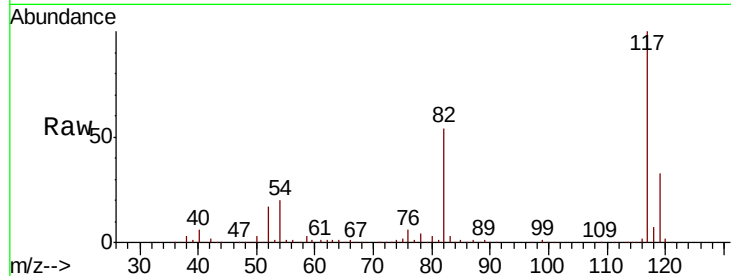




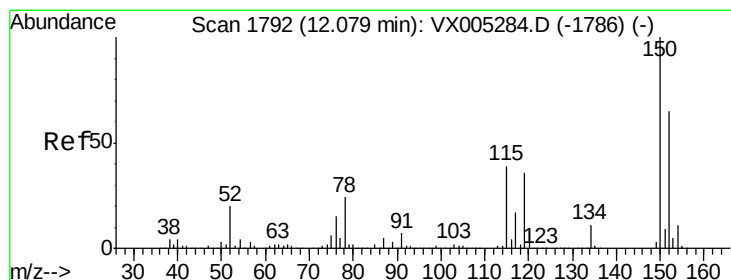
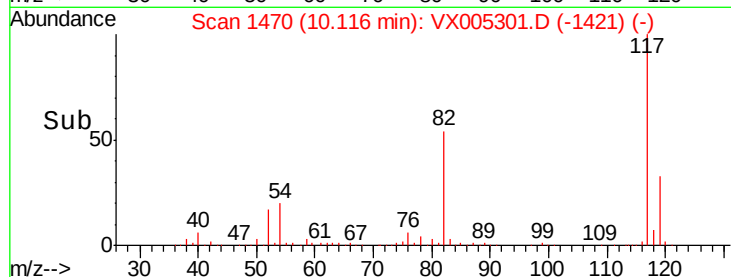
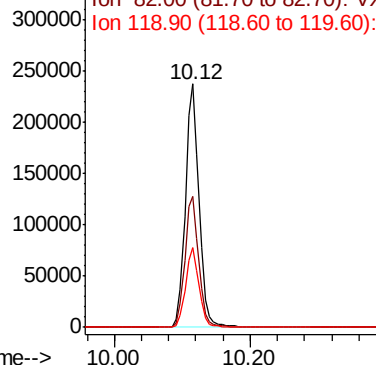
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.12 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: VX005301.D
 Acq: 12 Oct 2018 18:45

Instrument :
 MSVOA_X
 ClientSampleId :
 RAV-RAINEY-BEFORE-10-03-18

Tot Ion:117 Resp: 330046
 Ion Ratio Lower Upper
 117 100
 82 53.7 47.8 71.6
 119 32.8 29.3 43.9

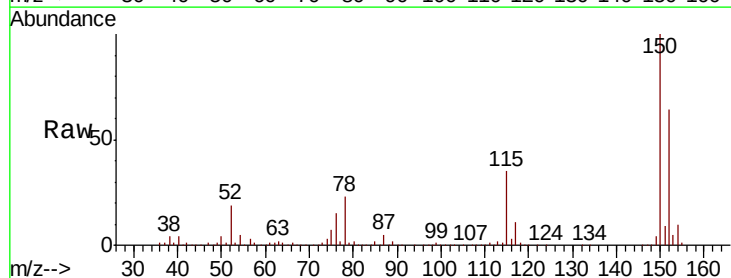


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): VX0
 Ion 118.90 (118.60 to 119.60): V

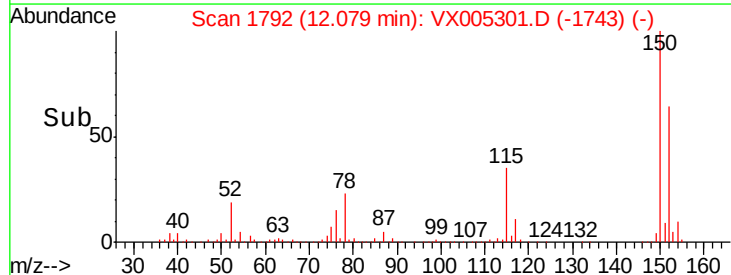
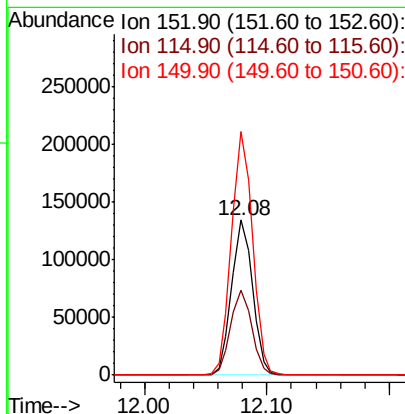


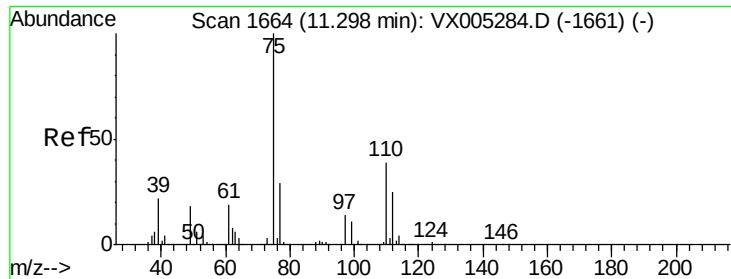
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX005301.D
 Acq: 12 Oct 2018 18:45

Tgt Ion:152 Resp: 159637
 Ion Ratio Lower Upper
 152 100
 115 55.4 39.0 117.0
 150 157.9 0.0 351.0



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: 23.045 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005301.D

Acq: 12 Oct 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

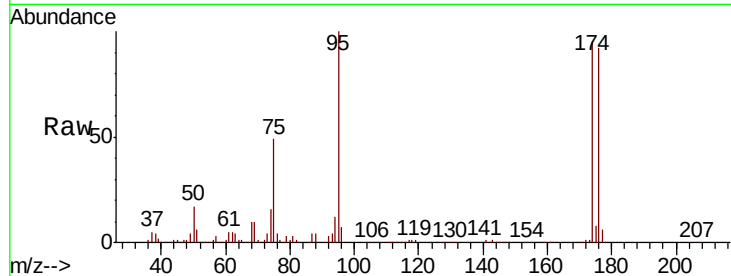
RAV-RAINEY-BEFORE-10-03-18

Tot Ion: 75 Resp: 71358

Ion Ratio Lower Upper

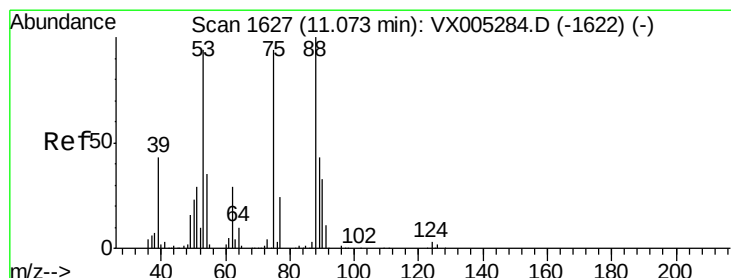
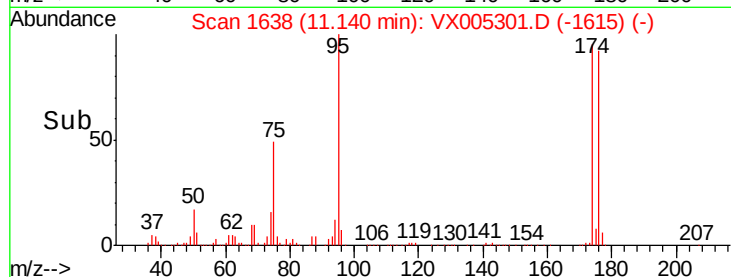
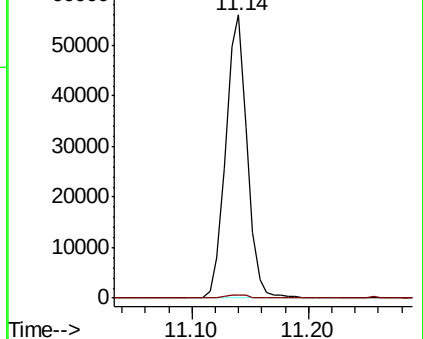
75 100

77 1.4 20.2 60.6#



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: 70.021 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005301.D

Acq: 12 Oct 2018 18:45

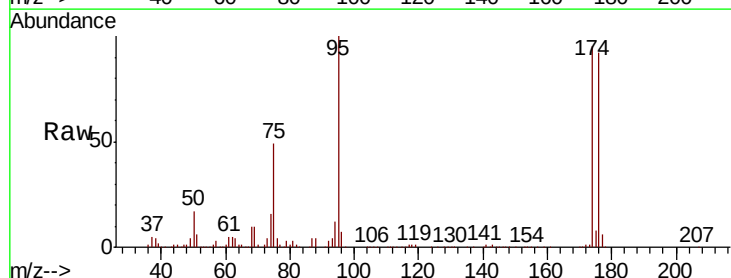
Tgt Ion: 75 Resp: 71358

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#



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

