

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031119\
 Data File : VU029914.D
 Acq On : 09 Mar 2019 12:27
 Operator : JC/SP
 Sample : VSTD10045
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10045

Quant Time: Mar 11 01:59:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 11 01:54:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	538573	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	535413	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	289756	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	337903	88.24	ug/L	0.00
7) Chloroethane-d5	1.67	69	278547	82.55	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	628873	85.61	ug/L	0.00
21) 2-Butanone-d5	4.17	46	538918	221.29	ug/L	0.00
24) Chloroform-d	4.64	84	657831	102.82	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	377432	94.09	ug/L	0.00
32) Benzene-d6	5.34	84	1366759	101.43	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	413440	102.17	ug/L	0.00
41) Toluene-d8	7.56	98	1326261	97.21	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	202835	96.15	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	474680	211.26	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	661287	97.63	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	561377	91.72	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	417707	109.094 ug/L	99
3) Chloromethane	1.33	50	527678	142.370 ug/L	99
5) Vinyl chloride	1.40	62	434010	98.660 ug/L	100
6) Bromomethane	1.61	94	119249	63.653 ug/L	99
8) Chloroethane	1.69	64	255757	88.378 ug/L	99
9) Trichlorofluoromethane	1.88	101	565303	83.212 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	347858	94.629 ug/L	99
12) 1,1-Dichloroethene	2.28	96	338880	96.630 ug/L	91
13) Acetone	2.32	43	536067	202.602 ug/L	99
14) Carbon disulfide	2.47	76	1057199	109.579 ug/L	99
15) Methyl Acetate	2.61	43	394007	113.148 ug/L	99
16) Methylene chloride	2.70	84	394543	110.471 ug/L	100
17) trans-1,2-Dichloroethene	2.98	96	363276	107.662 ug/L	99
18) Methyl tert-butyl Ether	3.00	73	969919	97.252 ug/L	99
19) 1,1-Dichloroethane	3.44	63	616943	105.489 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	413542	105.680 ug/L	99
22) 2-Butanone	4.26	43	666188	219.846 ug/L	99
23) Bromochloromethane	4.54	128	202559	96.681 ug/L	98
25) Chloroform	4.67	83	652914	101.130 ug/L	99
27) 1,2-Dichloroethane	5.40	62	474275	97.092 ug/L	98
29) Cyclohexane	4.99	56	577635	106.784 ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	552933	96.984 ug/L	100
31) Carbon tetrachloride	5.13	117	484445	94.539 ug/L	100
33) Benzene	5.39	78	1476261	105.528 ug/L	100
34) Trichloroethene	6.18	95	384629	102.929 ug/L	99
35) Methylcyclohexane	6.41	83	639555	102.721 ug/L	99
37) 1,2-Dichloropropane	6.43	63	375771	102.907 ug/L	100
38) Bromodichloromethane	6.75	83	480447	98.514 ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	596031	102.666 ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	1040393	204.386 ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

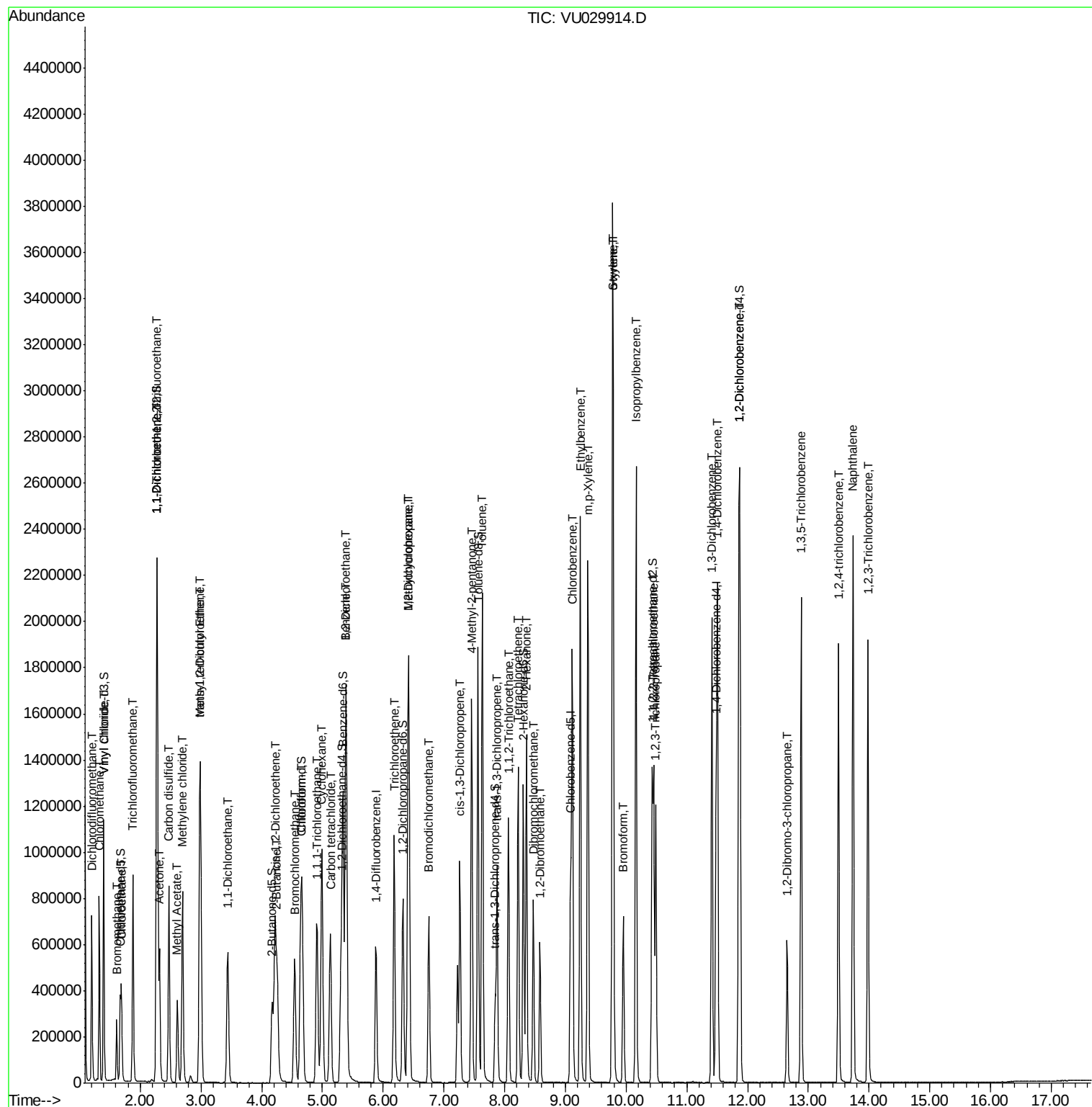
42) Toluene	7.63	91	1628038	99.701	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	535264	98.196	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	376794	97.790	ug/L	99
46) Tetrachloroethene	8.22	164	335972	93.466	ug/L	98
48) 2-Hexanone	8.36	43	892524	201.054	ug/L	99
49) Dibromochloromethane	8.47	129	426306	93.102	ug/L	99
50) 1,2-Dibromoethane	8.58	107	413332	97.142	ug/L	99
51) Chlorobenzene	9.12	112	1080482	97.298	ug/L	100
52) Ethylbenzene	9.25	91	1816434	98.794	ug/L	100
53) m,p-Xylene	9.37	106	708940	96.588	ug/L	98
54) o-xylene	9.77	106	696950	94.768	ug/L	100
55) Styrene	9.79	104	1169034	94.772	ug/L	98
56) Isopropylbenzene	10.16	105	1808007	94.020	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	676481	99.402	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	506734	98.484	ug/L	99
61) Bromoform	9.95	173	345833	89.718	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	898428	97.286	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	907549	97.527	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	907605	94.387	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	147104	99.228	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	694746	98.633	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	635173	103.782	ug/L	99
69) Naphthalene	13.74	128	1980725	106.001	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	649726	100.027	ug/L	100

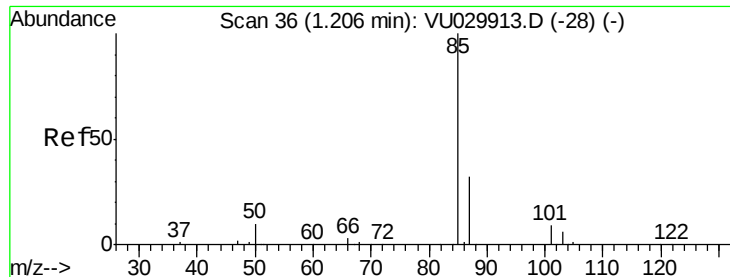
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 109.094 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

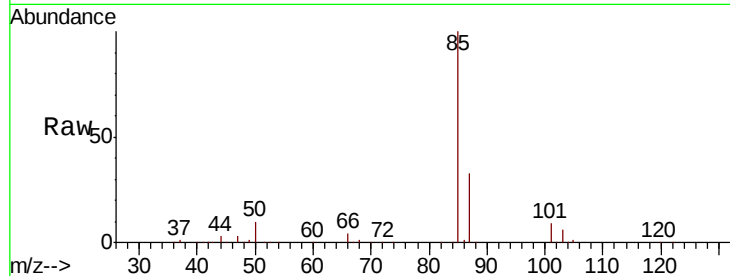
VSTD10045

Tgt Ion: 85 Resp: 417707

Ion Ratio Lower Upper

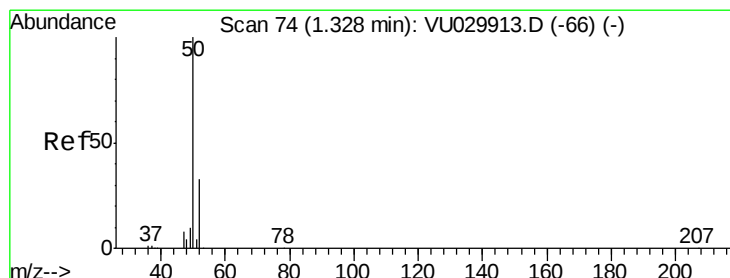
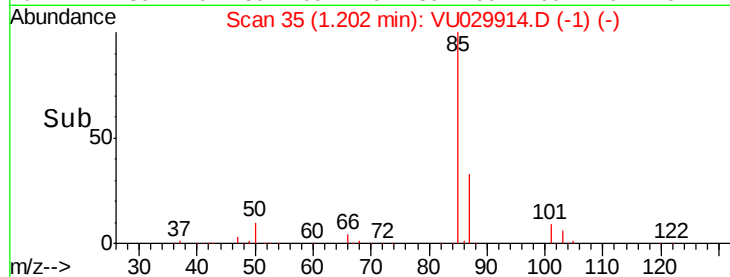
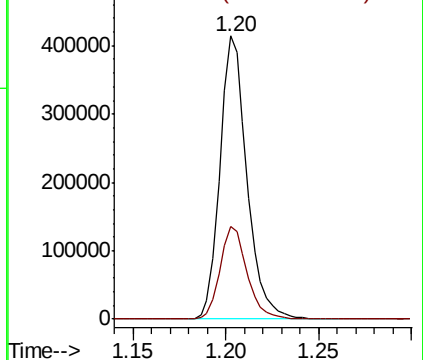
85 100

87 32.9 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 142.370 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU029914.D

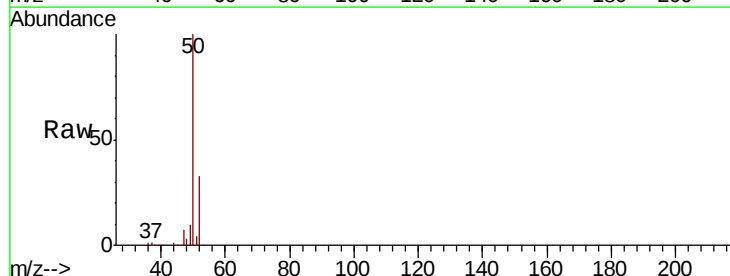
Acq: 09 Mar 2019 12:27

Tgt Ion: 50 Resp: 527678

Ion Ratio Lower Upper

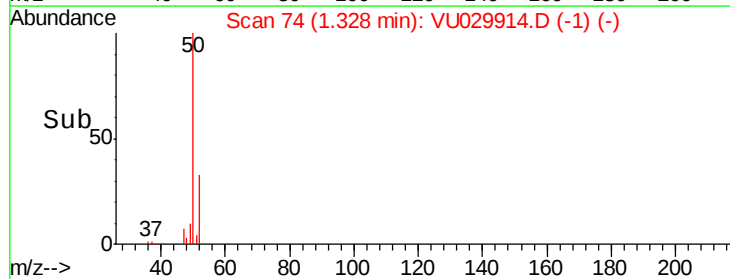
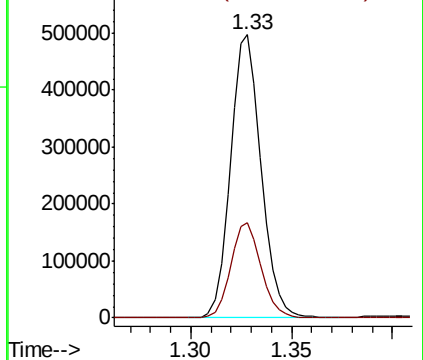
50 100

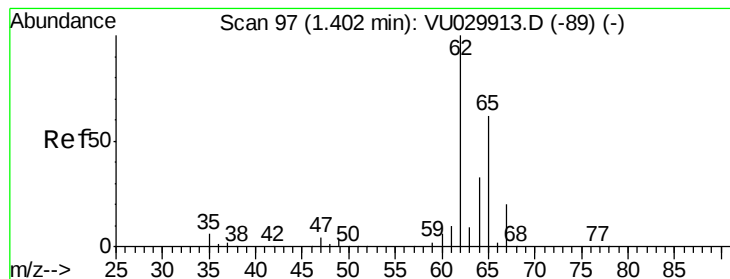
52 33.5 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 98.660 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

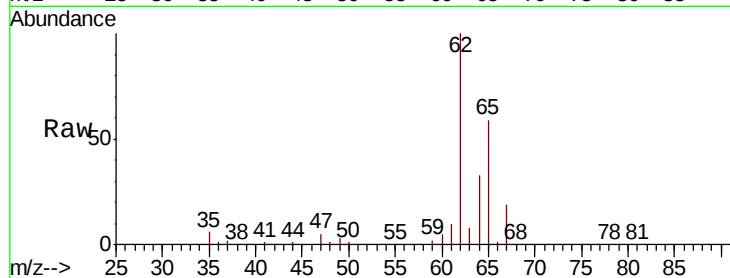
VSTD10045

Tgt Ion: 62 Resp: 434010

Ion Ratio Lower Upper

62 100

64 32.9 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.40

400000

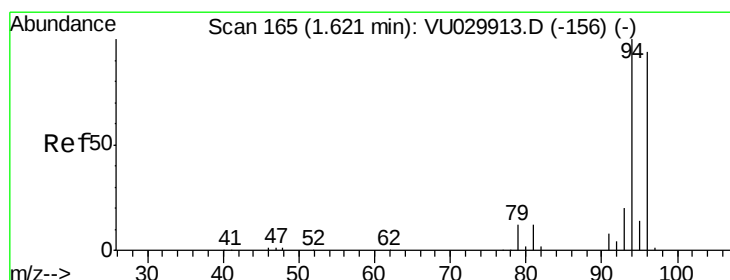
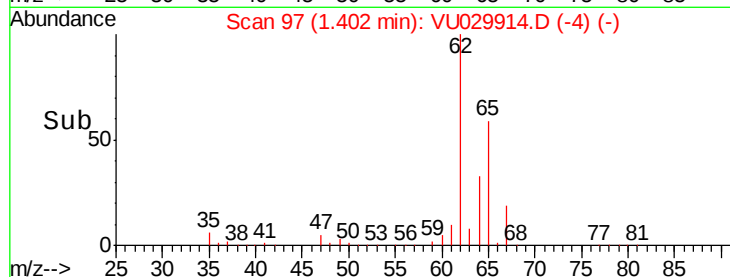
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 63.653 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.01 min

Lab File: VU029914.D

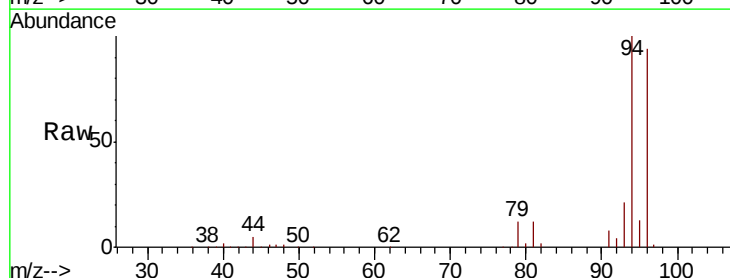
Acq: 09 Mar 2019 12:27

Tgt Ion: 94 Resp: 119249

Ion Ratio Lower Upper

94 100

96 94.4 65.7 121.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.61

100000

80000

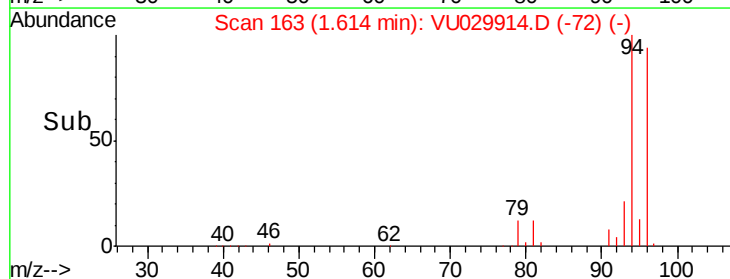
60000

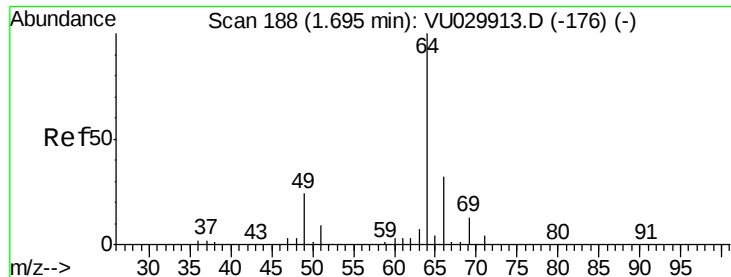
40000

20000

0

Time-->





#8

Chloroethane

Concen: 88.378 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

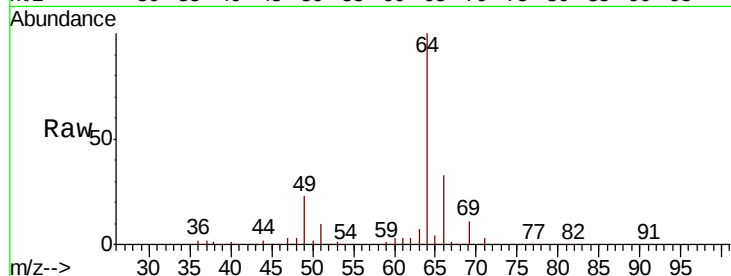
VSTD10045

Tgt Ion: 64 Resp: 255757

Ion Ratio Lower Upper

64 100

66 32.7 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU029913.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU029913.D (-176) (-)

1.69

200000

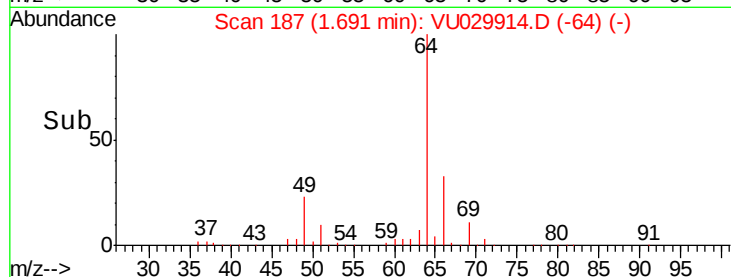
150000

100000

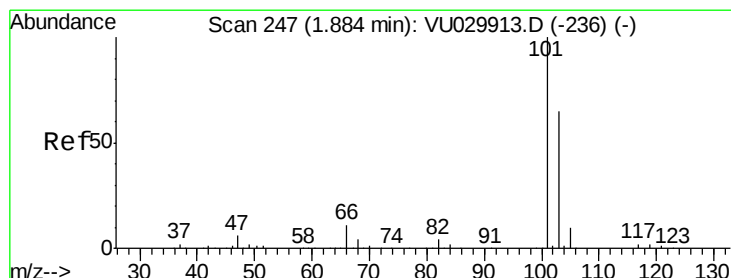
50000

0

Time-->



Time-->



#9

Trichlorofluoromethane

Concen: 83.212 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU029914.D

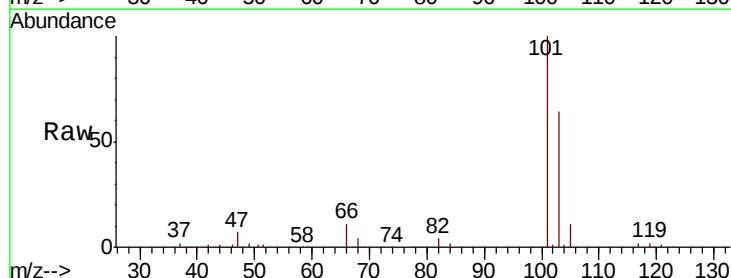
Acq: 09 Mar 2019 12:27

Tgt Ion: 101 Resp: 565303

Ion Ratio Lower Upper

101 100

103 64.9 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU029913.D (-236) (-)

Ion 103.00 (102.70 to 103.70): VU029913.D (-236) (-)

1.88

400000

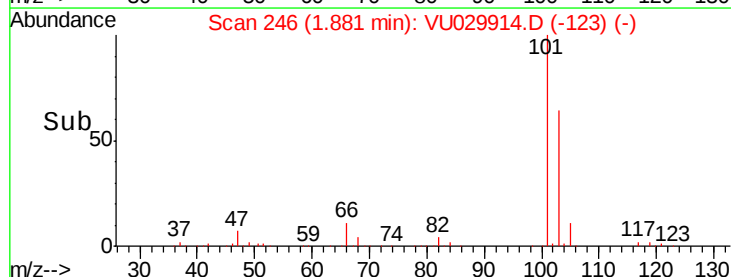
300000

200000

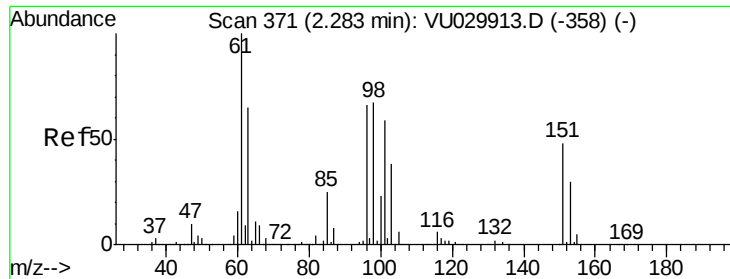
100000

0

Time-->



Time-->



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 94.629 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD10045

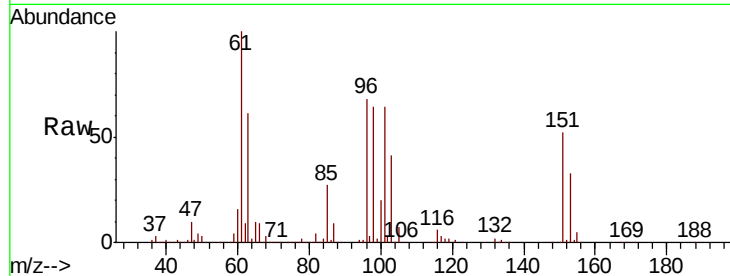
Tgt Ion: 101 Resp: 347858

Ion Ratio Lower Upper

101 100

85 41.4 33.4 50.2

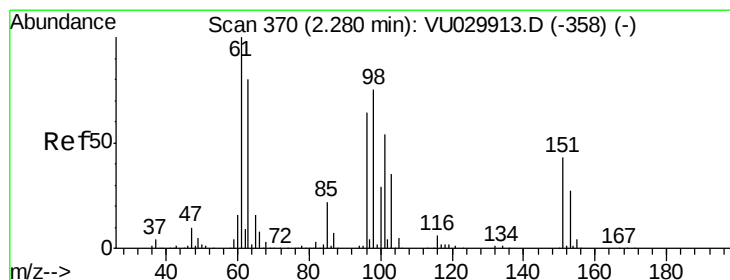
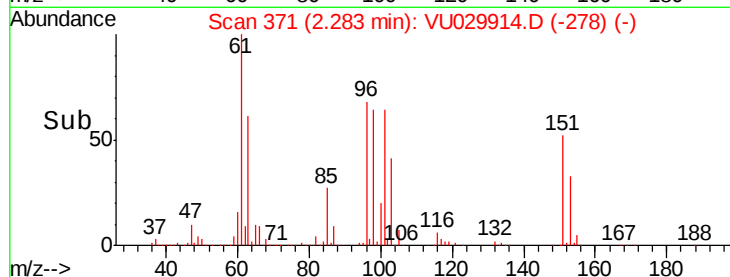
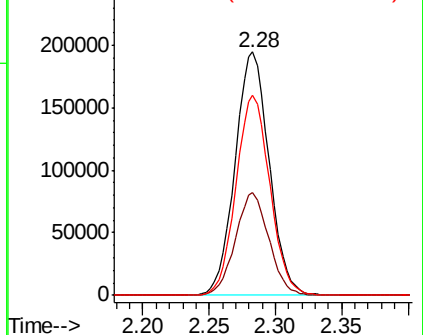
151 81.6 65.8 98.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 96.630 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

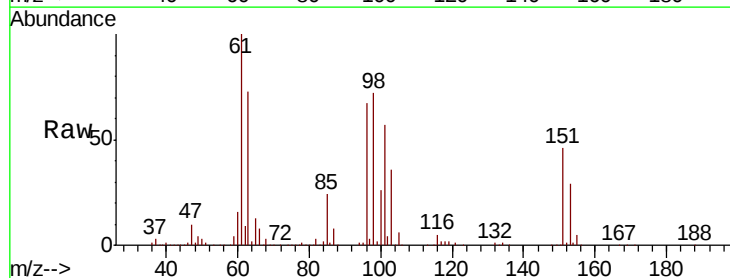
Tgt Ion: 96 Resp: 338880

Ion Ratio Lower Upper

96 100

61 150.2 109.0 202.4

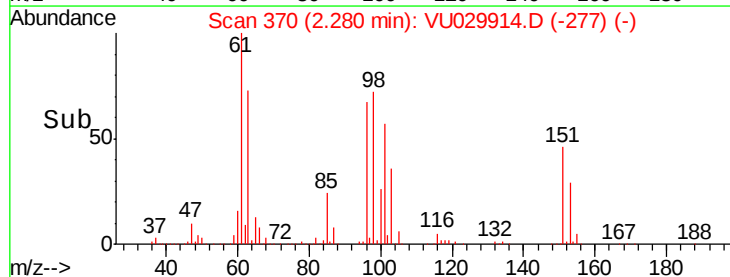
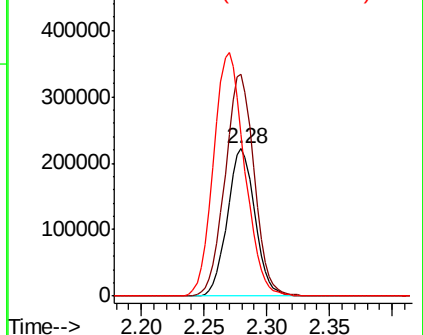
63 110.0 88.1 163.5

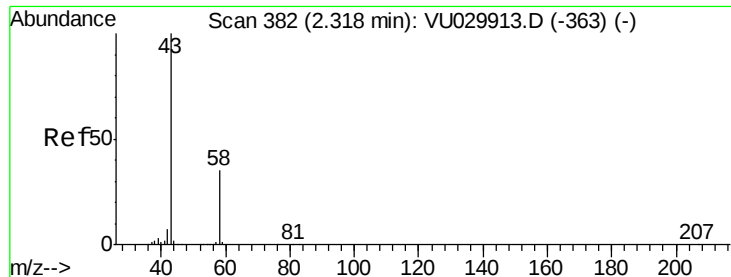


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 202.602 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

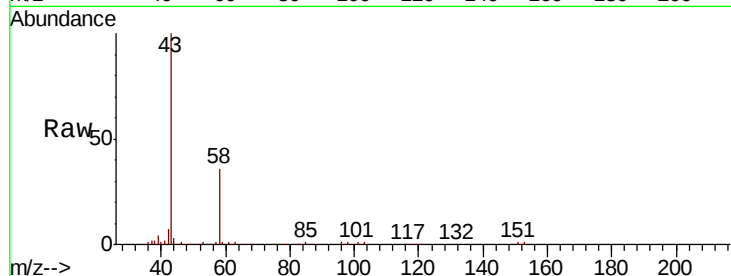
VSTD10045

Tgt Ion: 43 Resp: 536067

Ion Ratio Lower Upper

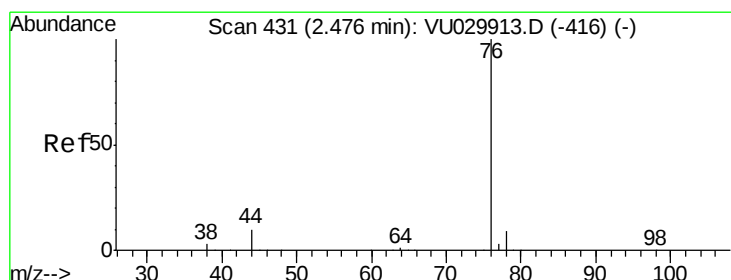
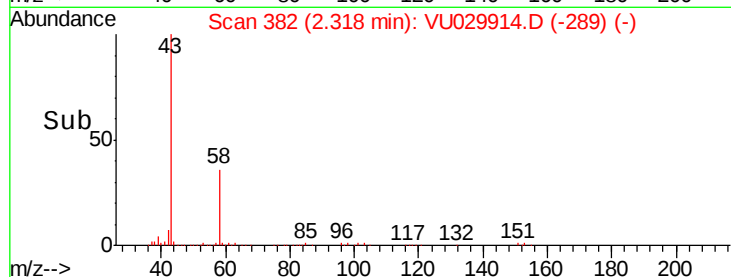
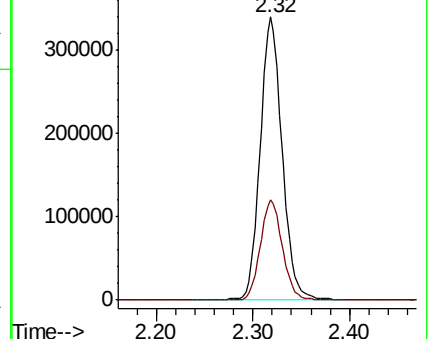
43 100

58 35.5 0.0 70.2



Abundance Ion 43.00 (42.70 to 43.70): VU029913.D (-363) (-)

Ion 58.00 (57.70 to 58.70): VU029913.D (-363) (-)



#14

Carbon disulfide

Concen: 109.579 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU029914.D

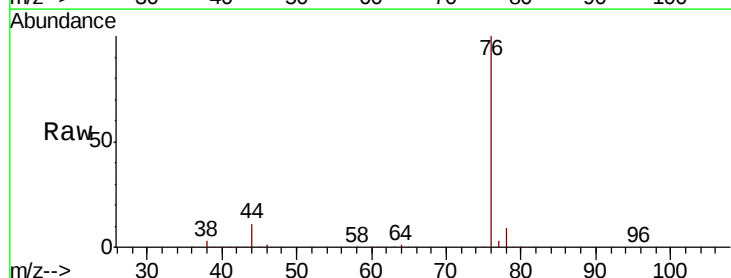
Acq: 09 Mar 2019 12:27

Tgt Ion: 76 Resp: 1057199

Ion Ratio Lower Upper

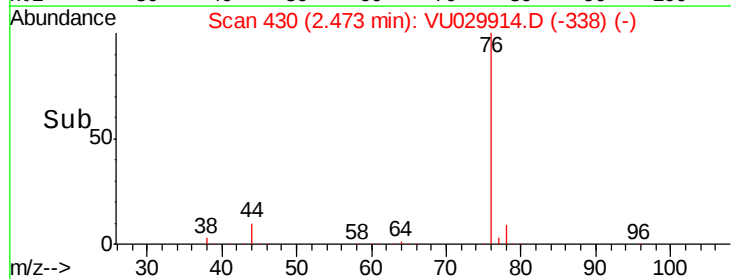
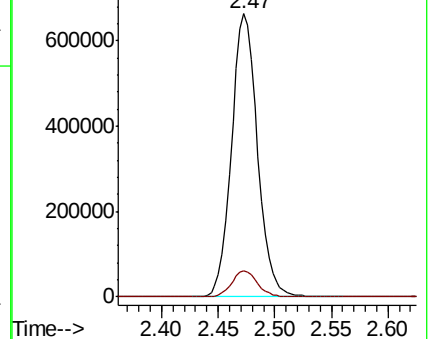
76 100

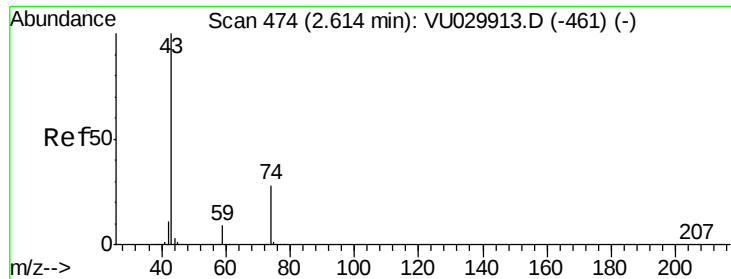
78 9.2 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VU029913.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU029913.D (-416) (-)





#15

Methyl Acetate

Concen: 113.148 ug/L

RT: 2.61 min Scan# 473

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampled :

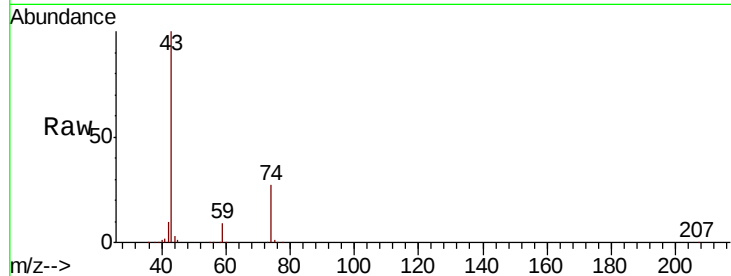
VSTD10045

Tgt Ion: 43 Resp: 394007

Ion Ratio Lower Upper

43 100

74 27.0 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VU029913.D (-461) (-)

Ion 74.00 (73.70 to 74.70): VU029913.D (-461) (-)

2.61

250000

200000

150000

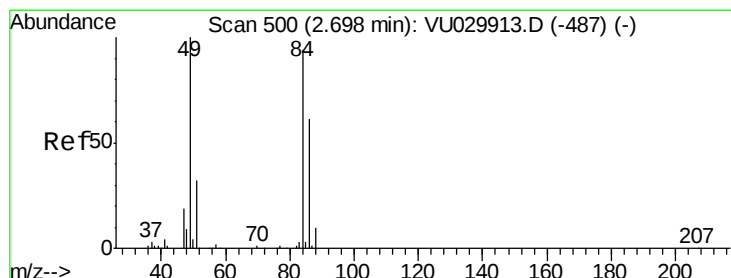
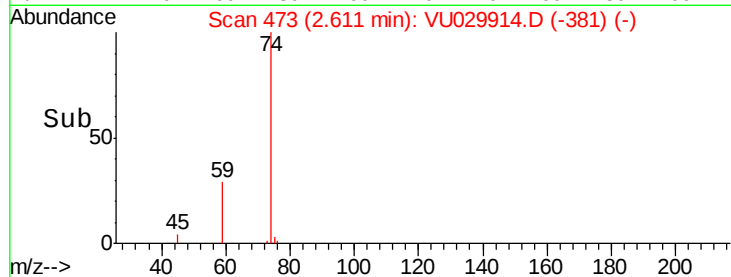
100000

50000

0

2.55 2.60 2.65 2.70

Time-->



#16

Methylene chloride

Concen: 110.471 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

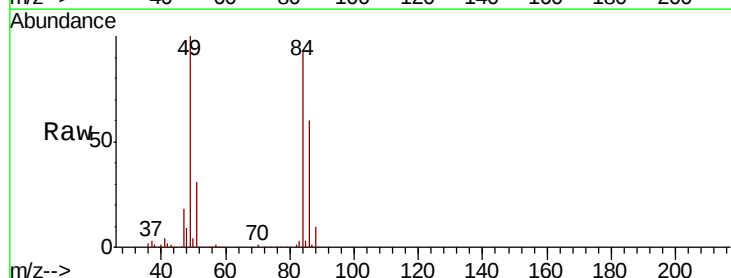
Tgt Ion: 84 Resp: 394543

Ion Ratio Lower Upper

84 100

86 64.8 45.3 84.1

49 107.3 74.8 139.0



Abundance Ion 84.00 (83.70 to 84.70): VU029913.D (-487) (-)

Ion 86.00 (85.70 to 86.70): VU029913.D (-487) (-)

Ion 49.00 (48.70 to 49.70): VU029913.D (-487) (-)

2.70

300000

250000

200000

150000

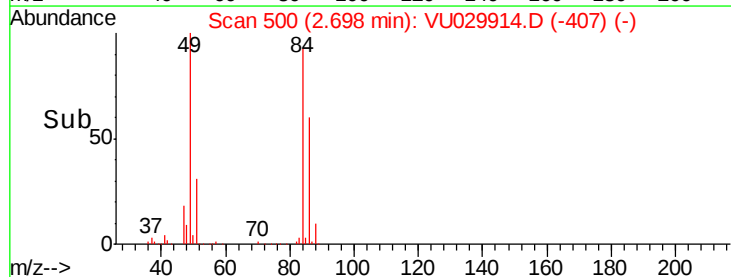
100000

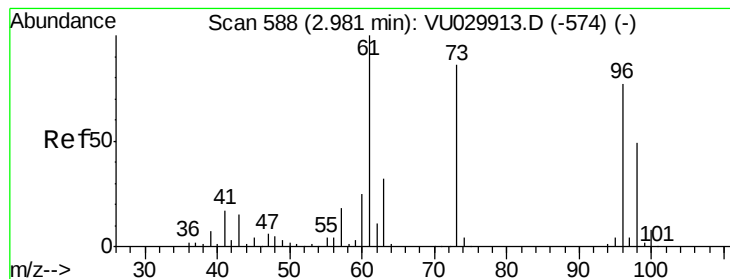
50000

0

2.60 2.65 2.70 2.75 2.80

Time-->





#17

trans-1,2-Dichloroethene

Concen: 107.662 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD10045

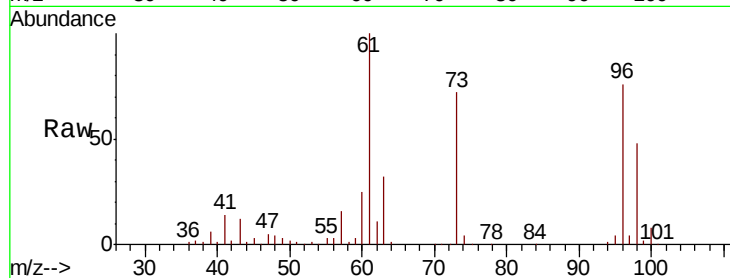
Tgt Ion: 96 Resp: 363276

Ion Ratio Lower Upper

96 100

61 131.3 91.1 169.3

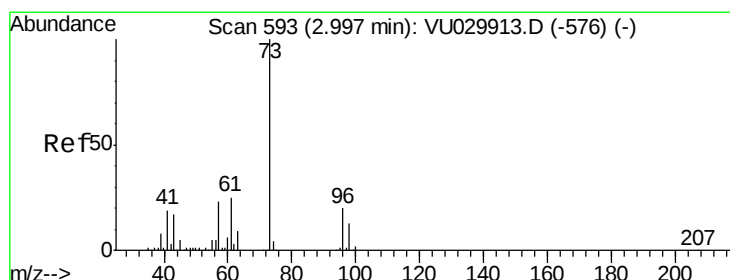
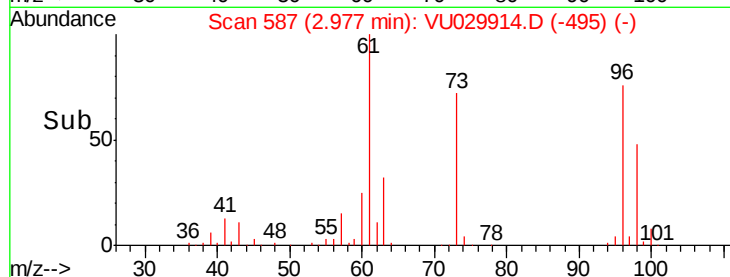
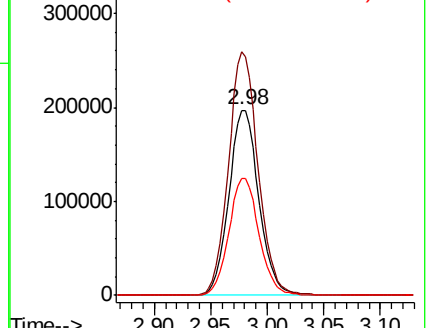
98 63.1 45.0 83.6



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 97.252 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

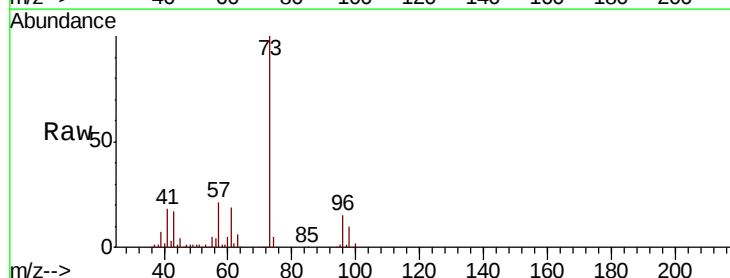
Tgt Ion: 73 Resp: 969919

Ion Ratio Lower Upper

73 100

43 16.5 13.5 20.3

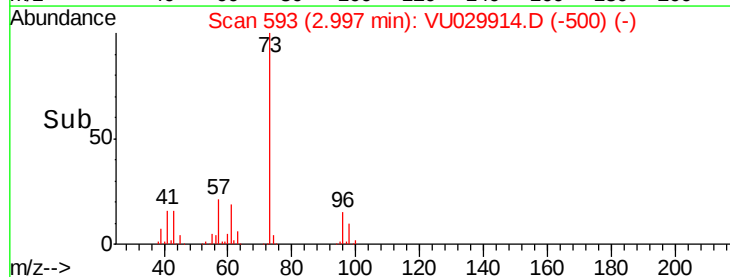
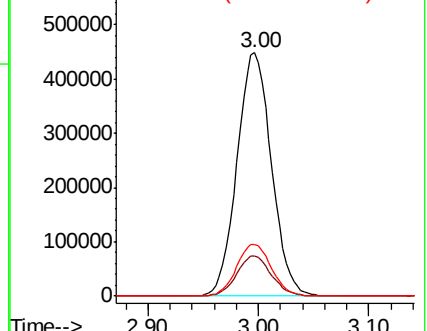
57 21.5 17.4 26.0

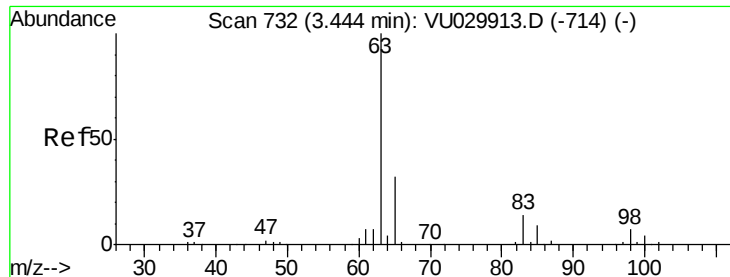


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

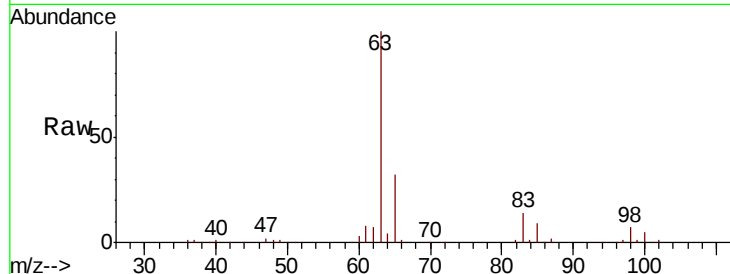




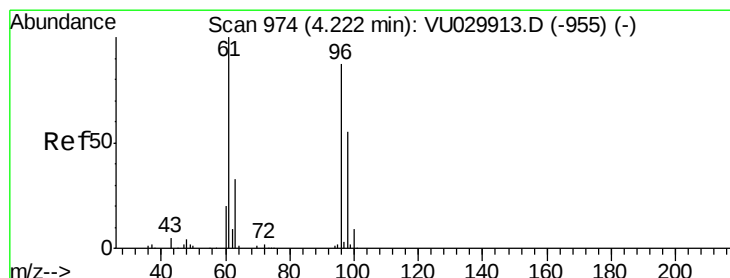
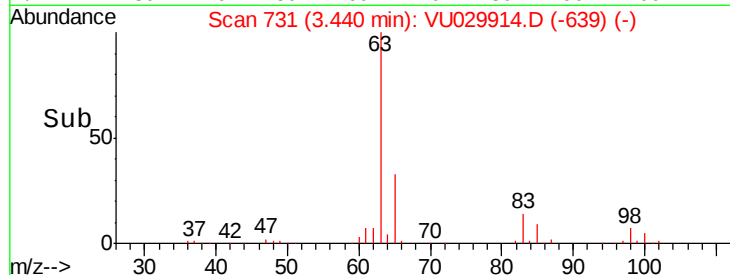
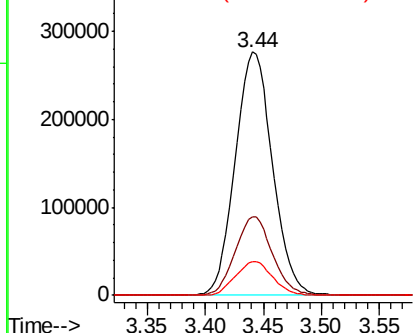
#19
 1,1-Dichloroethane
 Concen: 105.489 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10045

Tgt Ion: 63 Resp: 616943
 Ion Ratio Lower Upper
 63 100
 65 32.5 22.4 41.6
 83 13.7 9.7 18.1

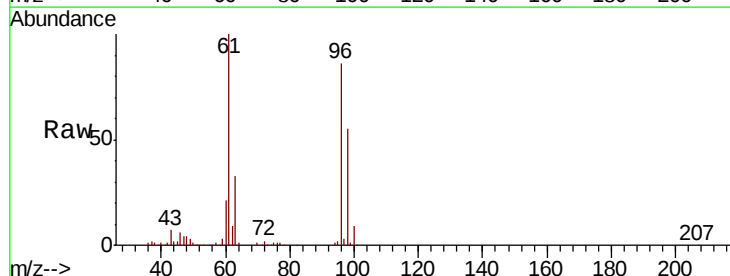


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

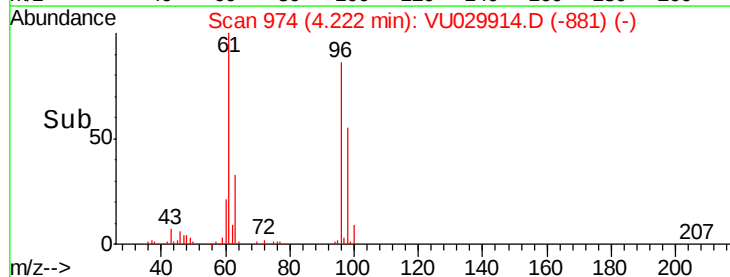
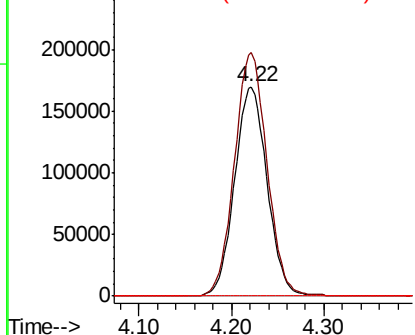


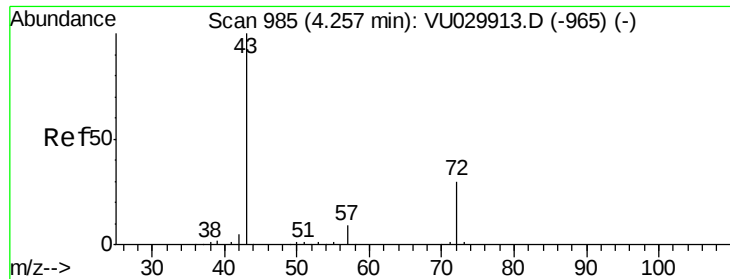
#20
 cis-1,2-Dichloroethene
 Concen: 105.680 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

Tgt Ion: 96 Resp: 413542
 Ion Ratio Lower Upper
 96 100
 61 116.5 80.6 149.8
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 219.846 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

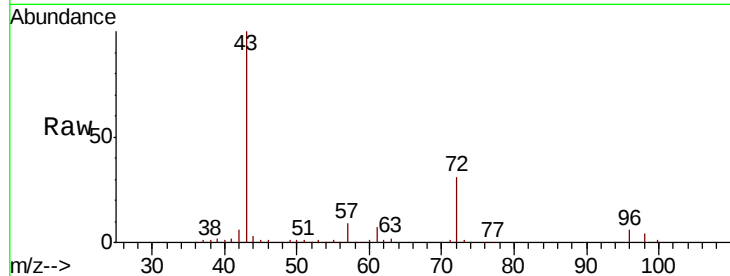
VSTD10045

Tgt Ion: 43 Resp: 666188

Ion Ratio Lower Upper

43 100

72 31.4 15.4 46.4



Abundance Ion 43.00 (42.70 to 43.70): VU029913.D (-965) (-)

Ion 72.00 (71.70 to 72.70): VU029913.D (-965) (-)

4.26

300000

250000

200000

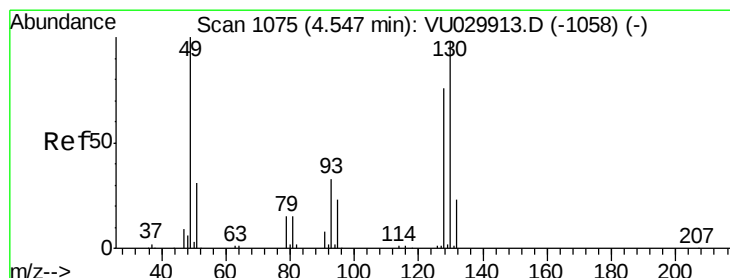
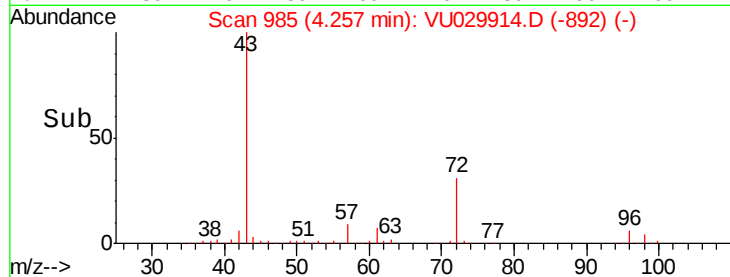
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 96.681 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Tgt Ion: 128 Resp: 202559

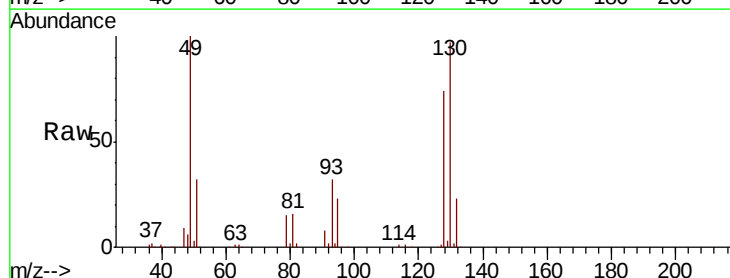
Ion Ratio Lower Upper

128 100

49 134.9 92.2 171.2

130 130.9 90.4 168.0

51 43.3 33.0 49.6



Abundance Ion 128.00 (127.70 to 128.70): VU029913.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU029913.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU029913.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU029913.D (-1058) (-)

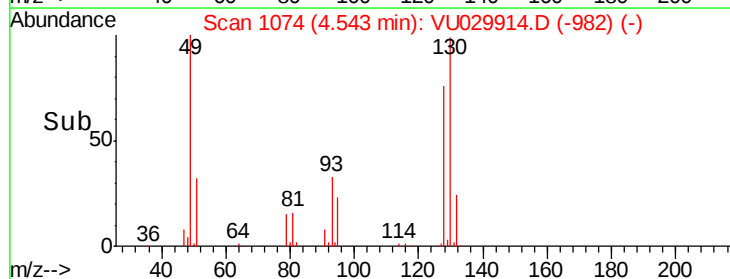
150000

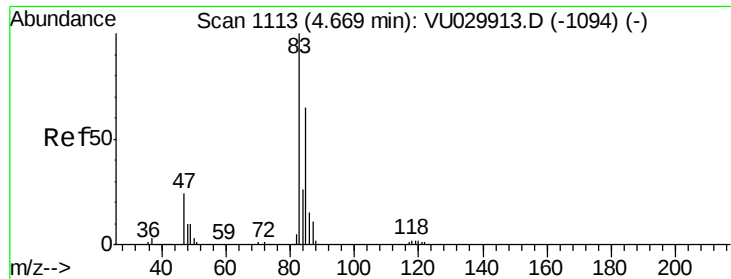
100000

50000

0

Time-->

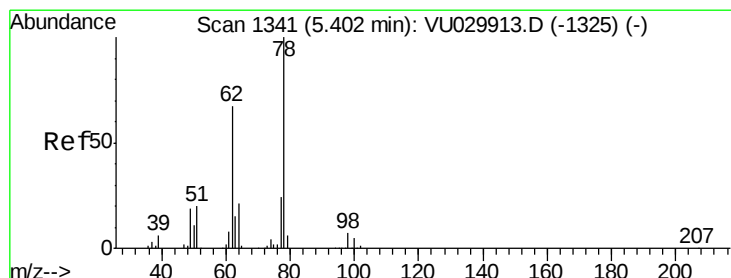
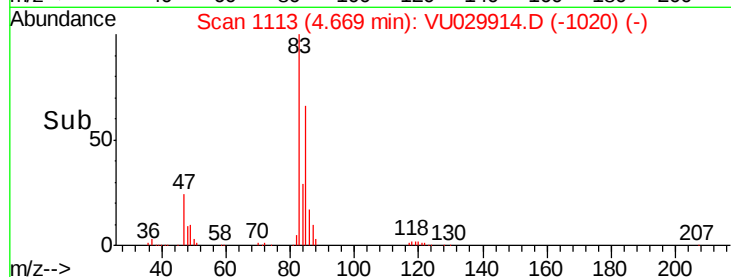
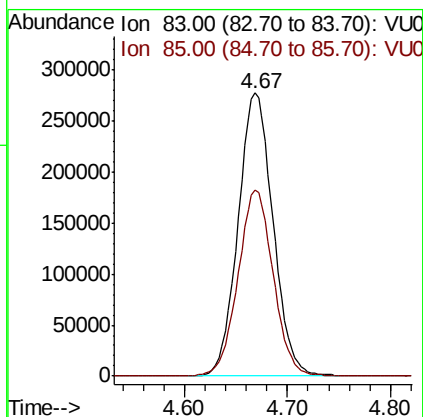
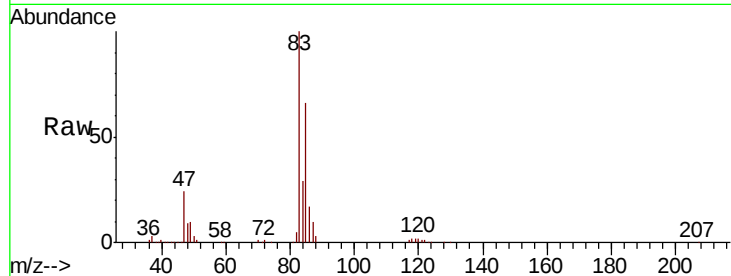




#25
Chloroform
Concen: 101.130 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU029914.D
Acq: 09 Mar 2019 12:27

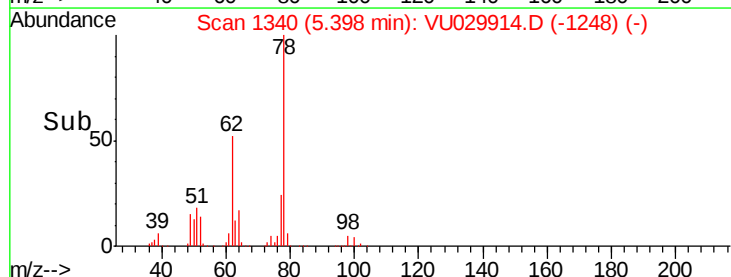
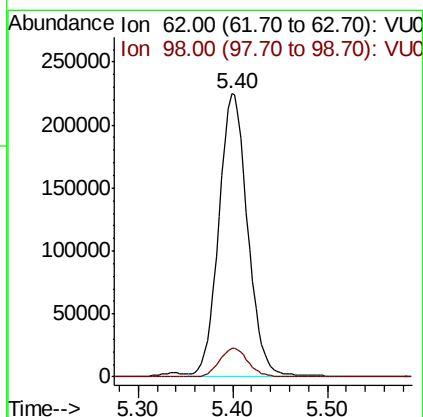
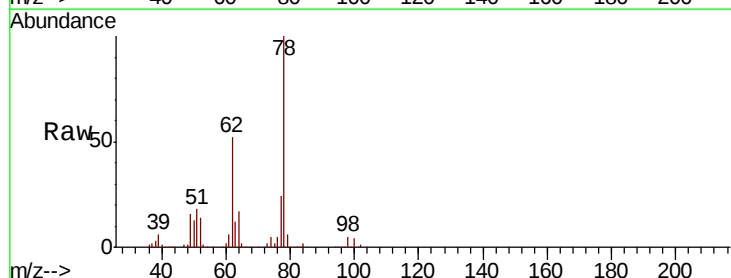
Instrument :
MSVOA_U
ClientSampleId :
VSTD10045

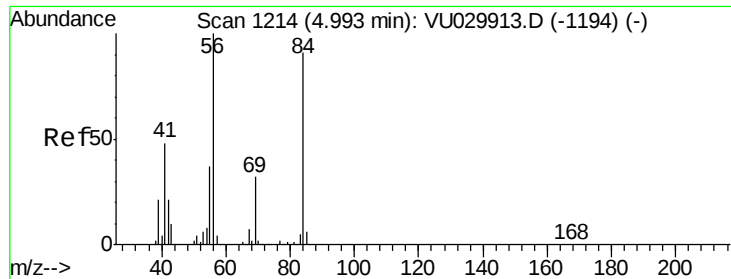
Tgt Ion: 83 Resp: 652914
Ion Ratio Lower Upper
83 100
85 65.8 45.3 84.1



#27
1,2-Dichloroethane
Concen: 97.092 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU029914.D
Acq: 09 Mar 2019 12:27

Tgt Ion: 62 Resp: 474275
Ion Ratio Lower Upper
62 100
98 10.0 8.6 12.8

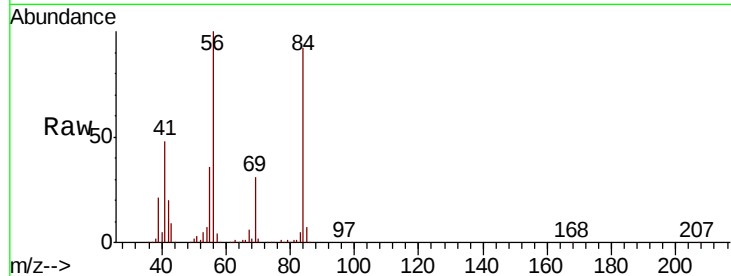




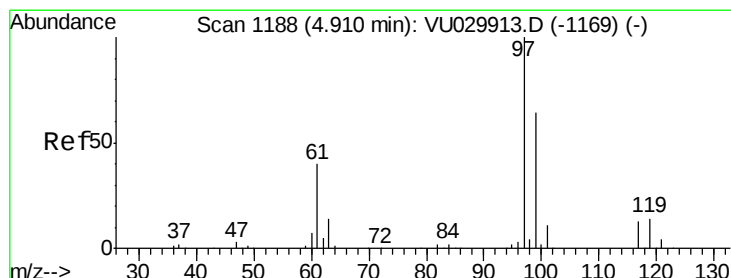
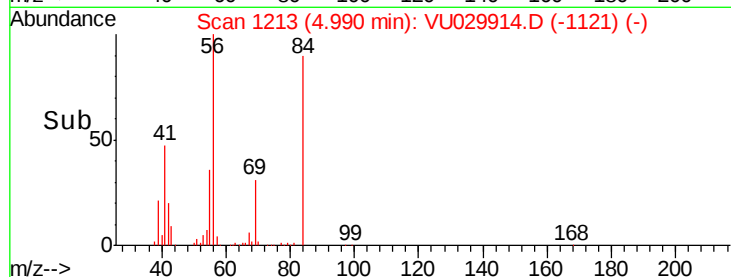
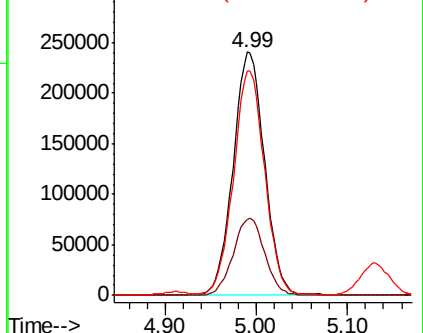
#29
Cyclohexane
Concen: 106.784 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU029914.D
Acq: 09 Mar 2019 12:27

Instrument :
MSVOA_U
ClientSampleId :
VSTD10045

Tgt Ion: 56 Resp: 577635
Ion Ratio Lower Upper
56 100
69 31.7 25.4 38.0
84 91.9 73.0 109.6

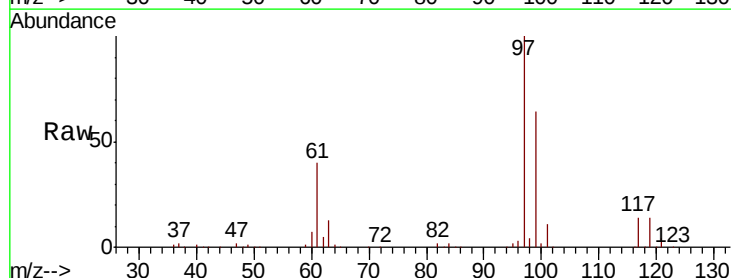


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

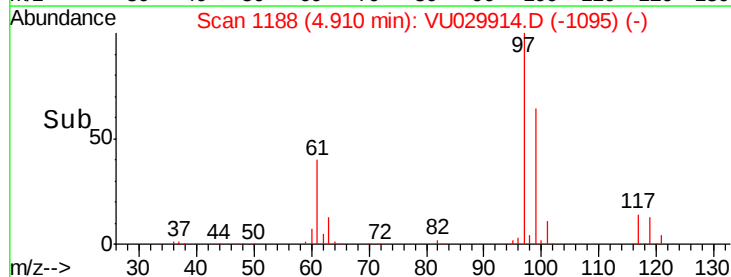
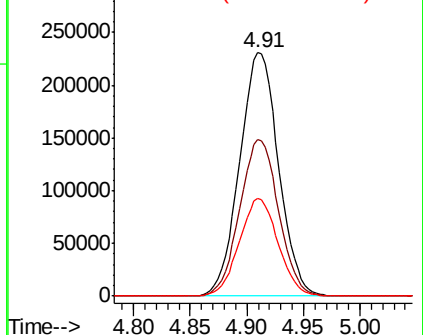


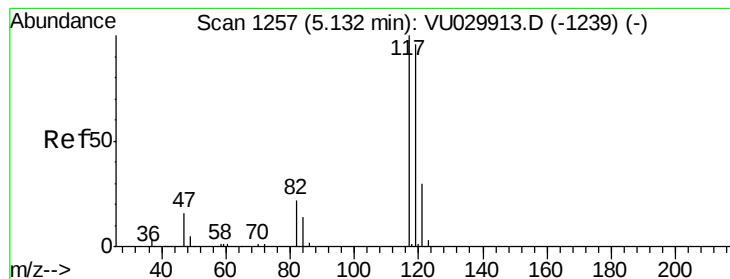
#30
1,1,1-Trichloroethane
Concen: 96.984 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU029914.D
Acq: 09 Mar 2019 12:27

Tgt Ion: 97 Resp: 552933
Ion Ratio Lower Upper
97 100
99 64.4 51.4 77.0
61 40.1 32.2 48.2



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 94.539 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

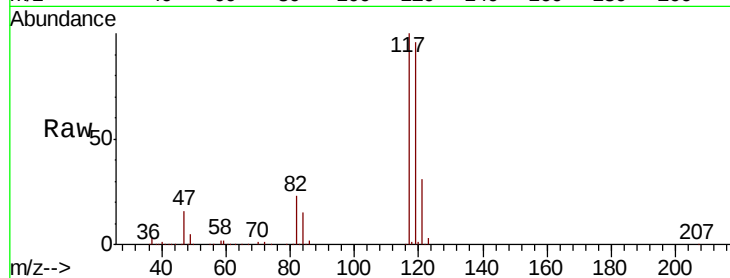
VSTD10045

Tgt Ion:117 Resp: 484445

Ion Ratio Lower Upper

117 100

119 96.4 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

250000

200000

150000

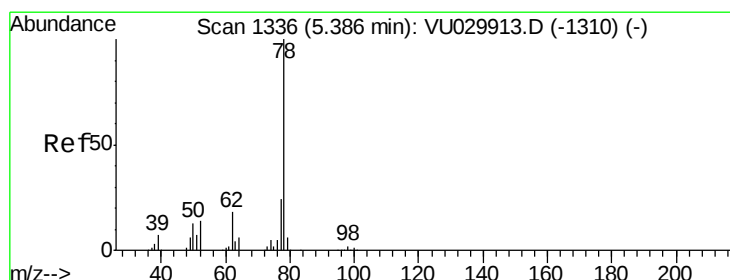
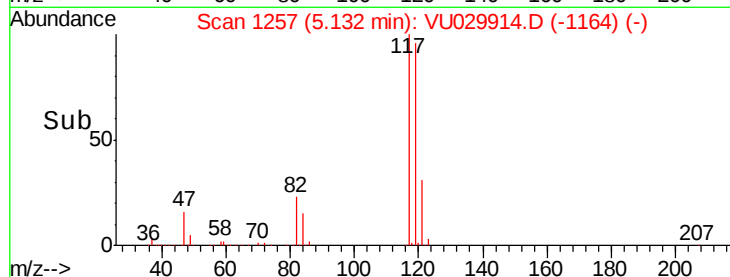
100000

50000

0

5.00 5.10 5.20

Time-->



#33

Benzene

Concen: 105.528 ug/L

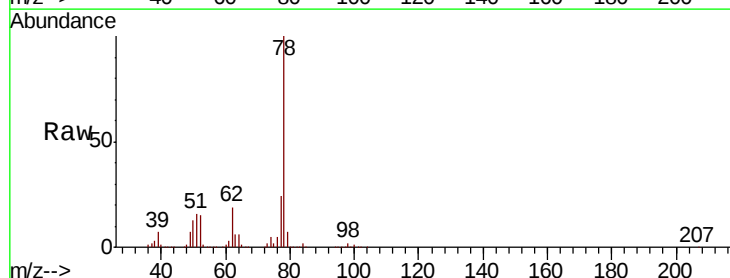
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Tgt Ion: 78 Resp: 1476261



Abundance Ion 78.00 (77.70 to 78.70): VU0

800000

600000

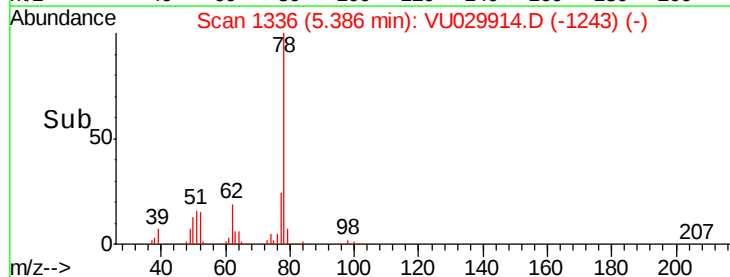
400000

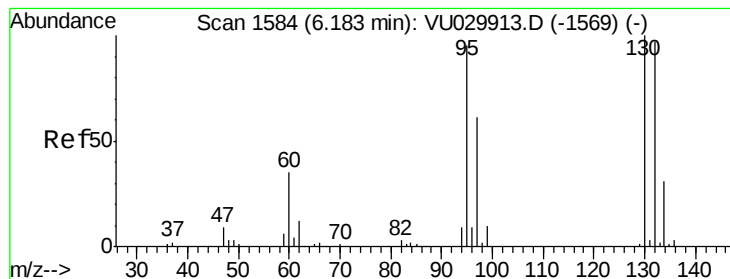
200000

0

5.20 5.30 5.40 5.50 5.60

Time-->





#34

Trichloroethene

Concen: 102.929 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD10045

Tgt Ion: 95 Resp: 384629

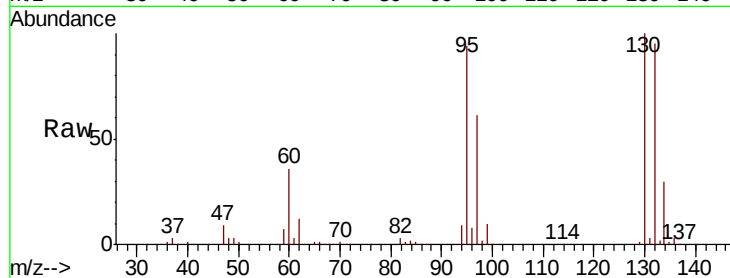
Ion Ratio Lower Upper

95 100

97 65.4 45.1 83.7

132 101.5 72.0 133.6

130 106.6 74.1 137.5

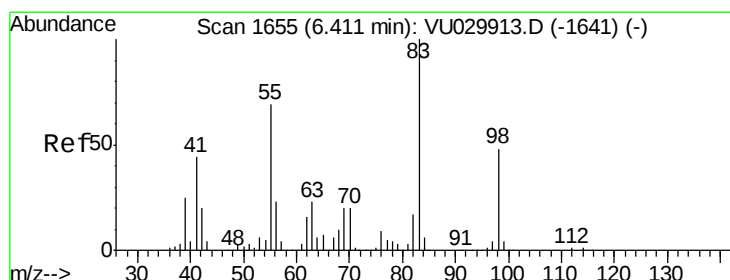
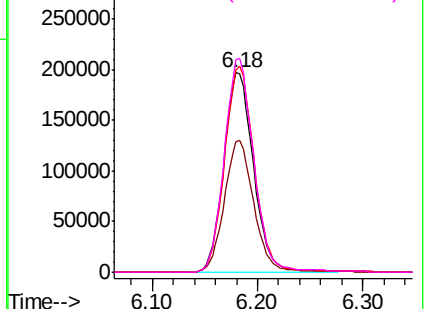
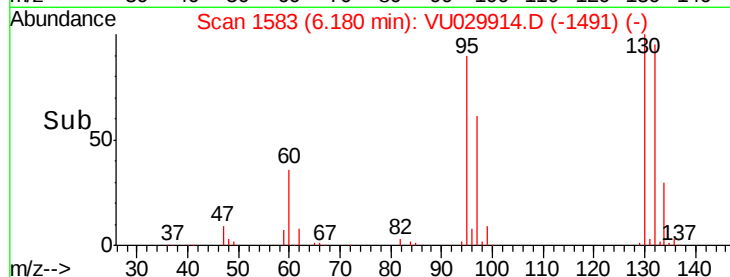


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 102.721 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

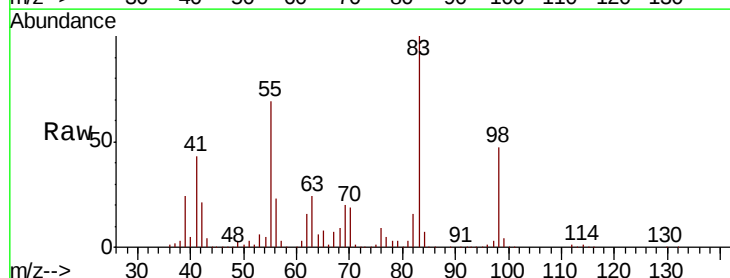
Tgt Ion: 83 Resp: 639555

Ion Ratio Lower Upper

83 100

55 70.0 55.5 83.3

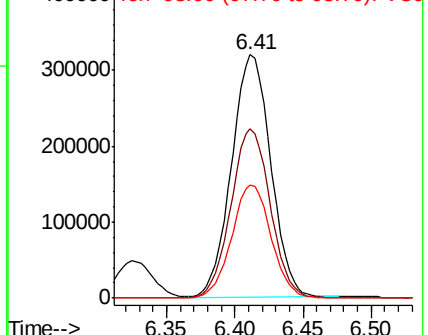
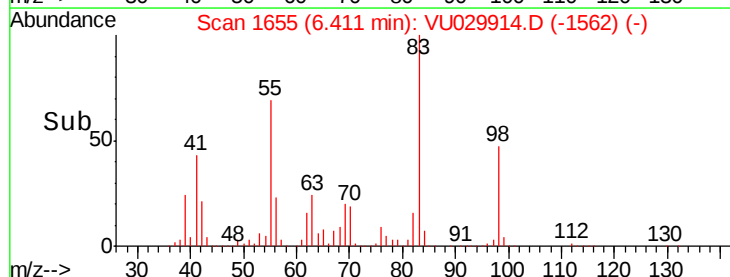
98 46.7 37.6 56.4

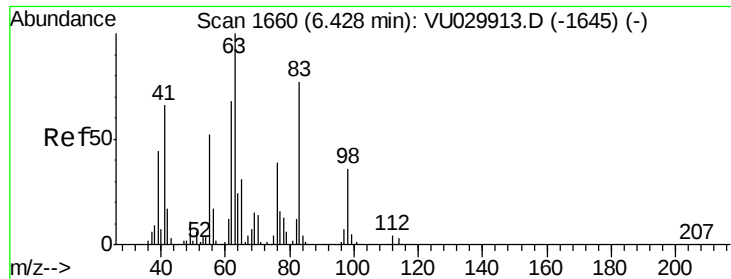


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

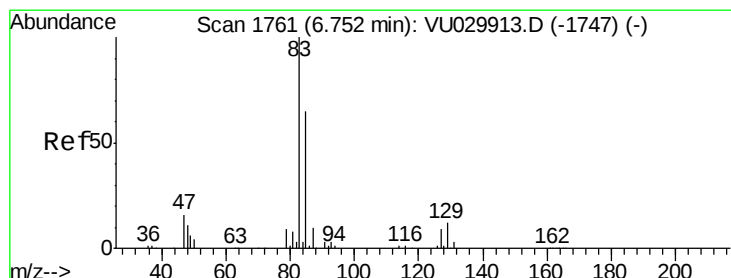
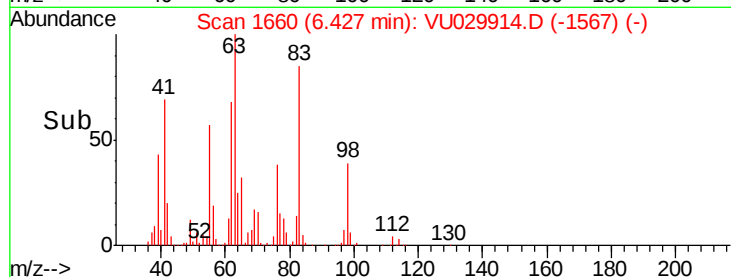
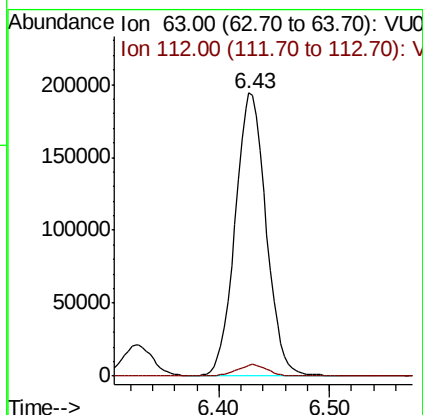
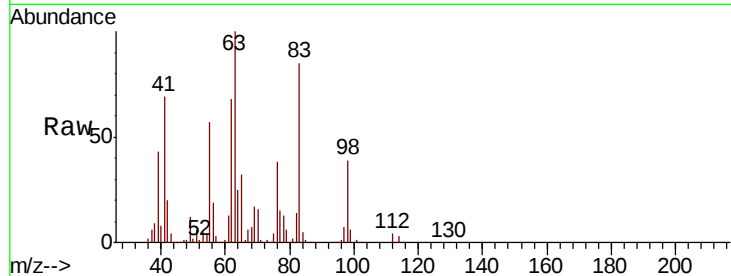




#37
 1,2-Dichloropropane
 Concen: 102.907 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

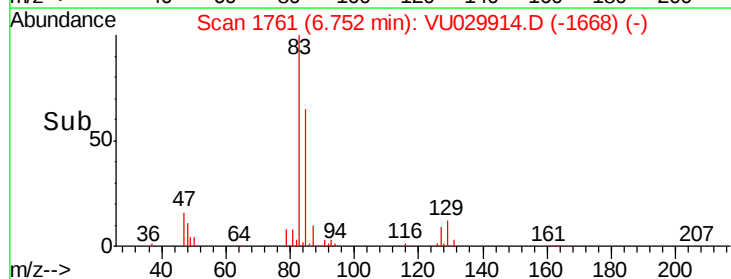
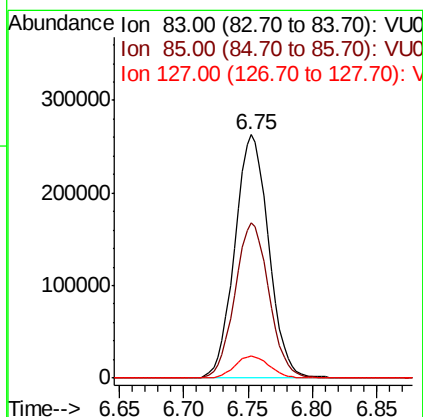
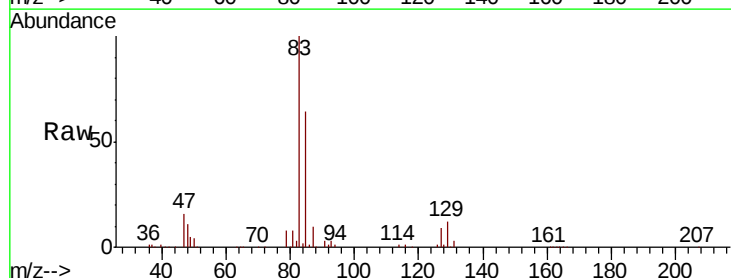
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10045

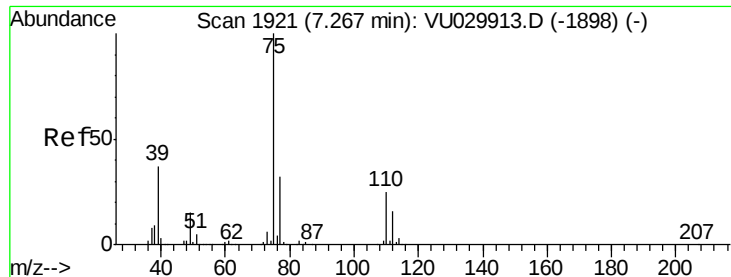
Tgt Ion: 63 Resp: 375771
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.4 5.0



#38
 Bromodichloromethane
 Concen: 98.514 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

Tgt Ion: 83 Resp: 480447
 Ion Ratio Lower Upper
 83 100
 85 63.9 45.2 84.0
 127 8.9 7.4 11.0

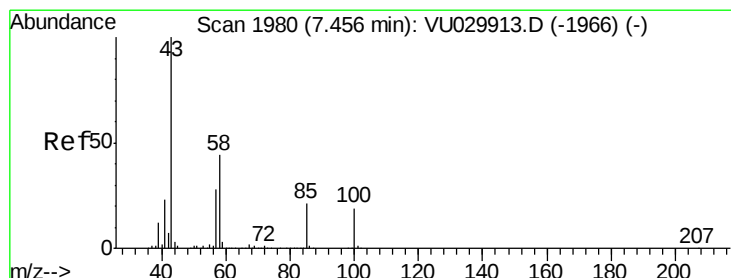
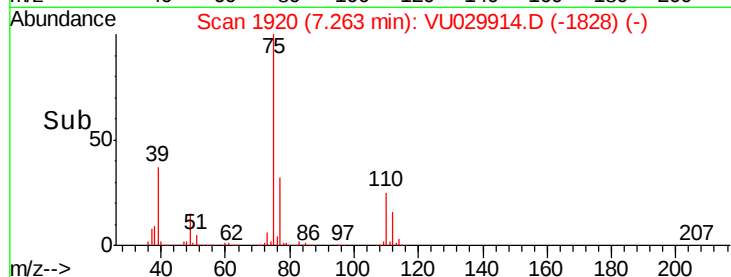
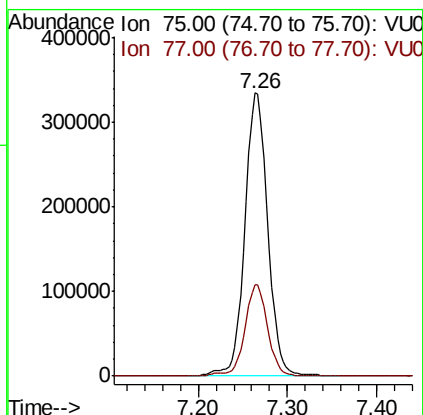
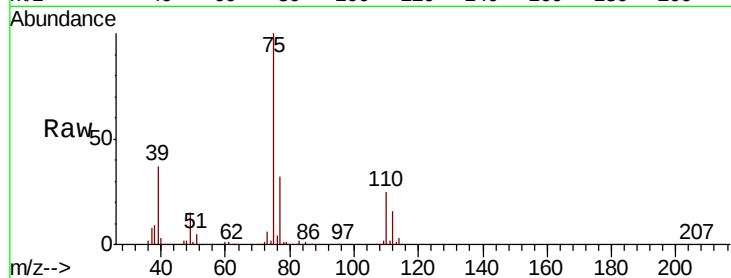




#39
 cis-1,3-Dichloropropene
 Concen: 102.666 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

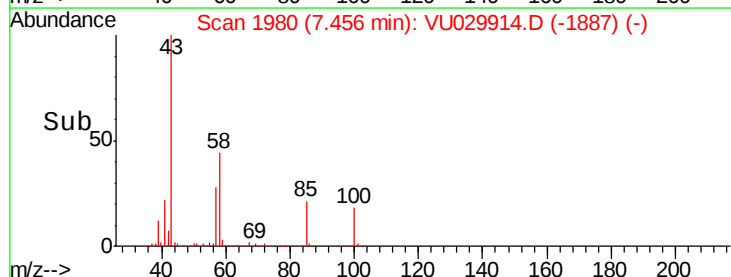
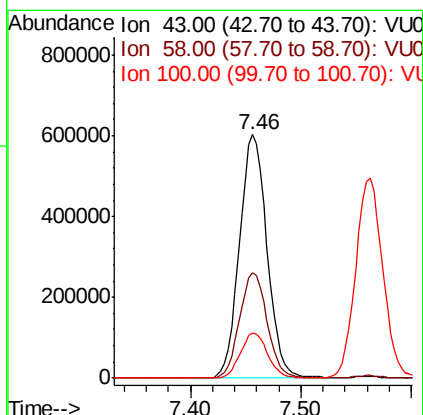
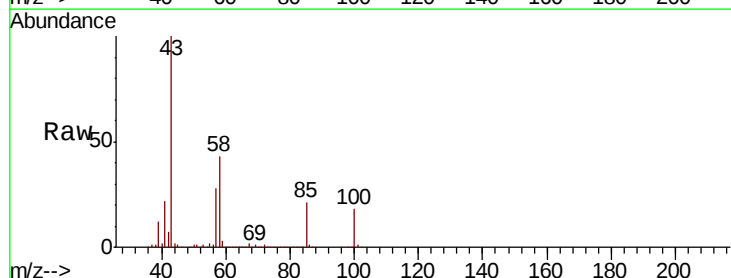
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10045

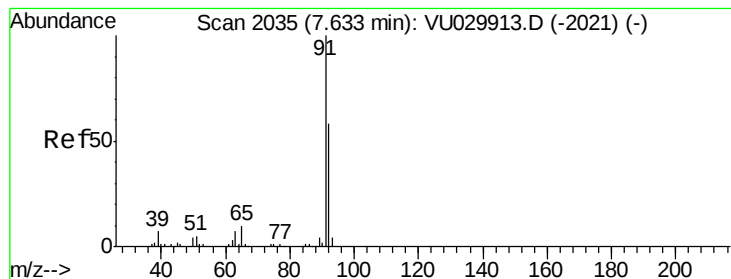
Tgt Ion: 75 Resp: 596031
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.5 41.9



#40
 4-Methyl-2-pentanone
 Concen: 204.386 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

Tgt Ion: 43 Resp: 1040393
 Ion Ratio Lower Upper
 43 100
 58 43.4 35.0 52.6
 100 18.4 14.8 22.2





#42

Toluene

Concen: 99.701 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

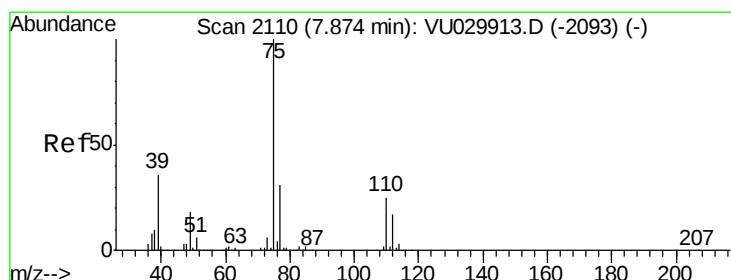
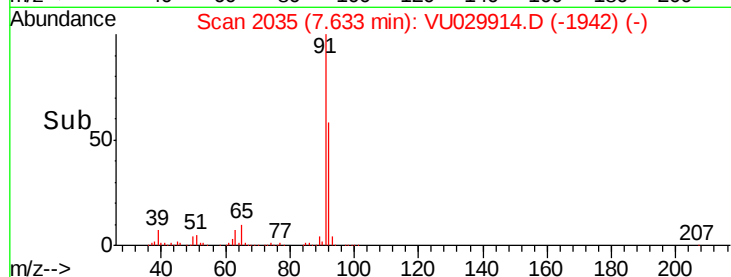
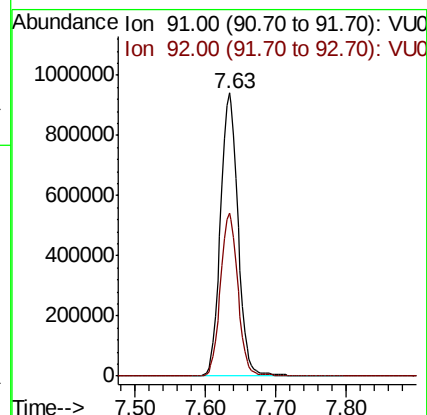
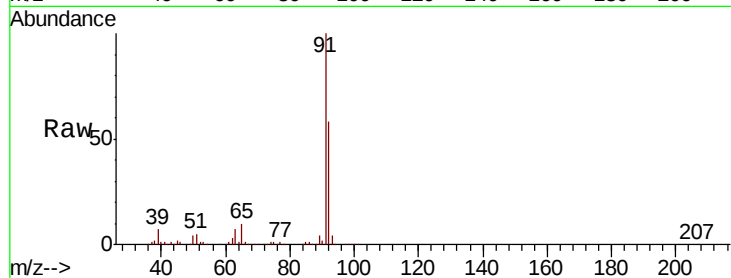
VSTD10045

Tgt Ion: 91 Resp: 1628038

Ion Ratio Lower Upper

91 100

92 57.7 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 98.196 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU029914.D

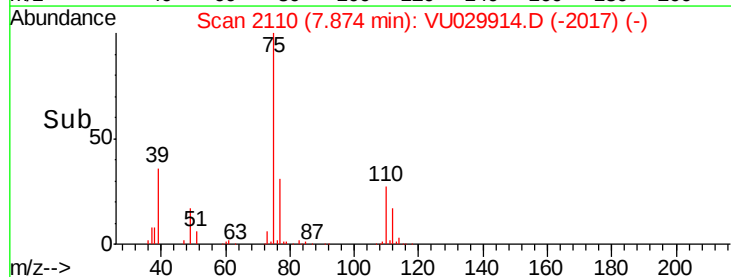
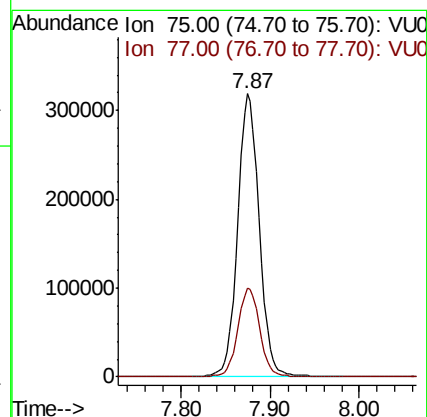
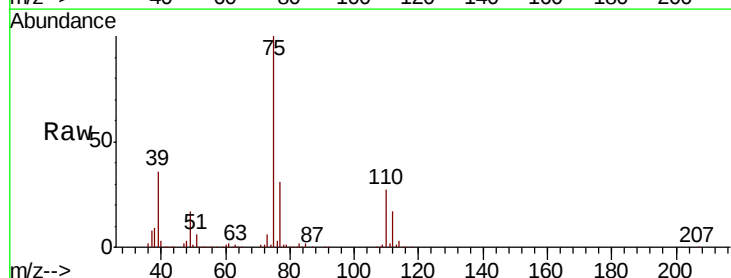
Acq: 09 Mar 2019 12:27

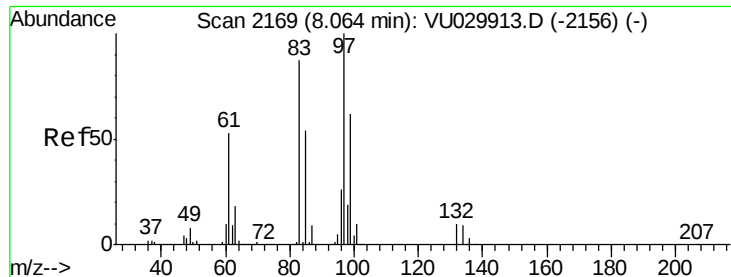
Tgt Ion: 75 Resp: 535264

Ion Ratio Lower Upper

75 100

77 31.3 21.8 40.6

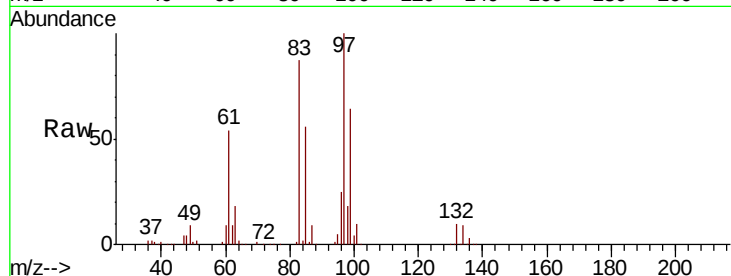




#45
 1,1,2-Trichloroethane
 Concen: 97.790 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10045

Tgt Ion:	97	Resp:	376794
Ion	Ratio	Lower	Upper
97	100		
99	63.8	43.7	81.1
83	86.9	60.8	112.8
85	56.3	38.1	70.7



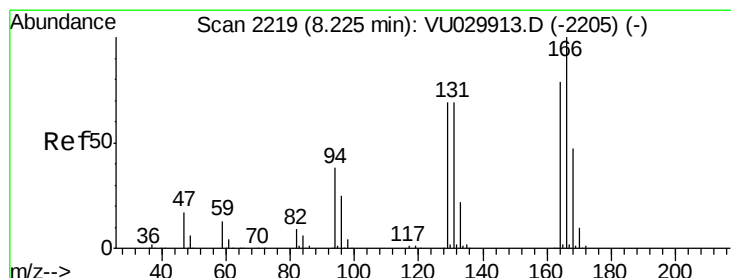
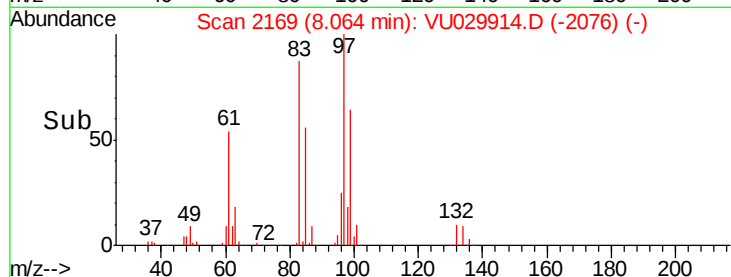
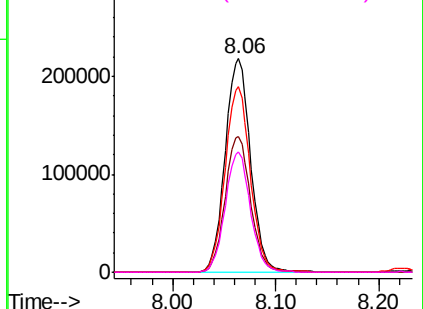
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

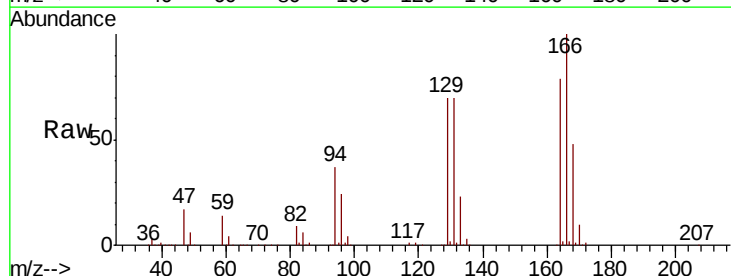
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 93.466 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

Tgt Ion:	164	Resp:	335972
Ion	Ratio	Lower	Upper
164	100		
129	89.6	61.0	113.2
131	89.2	60.5	112.3
166	127.2	88.3	163.9



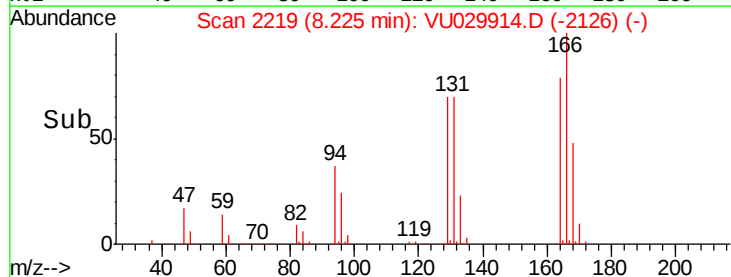
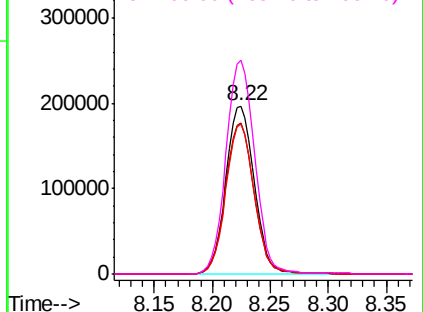
Abundance

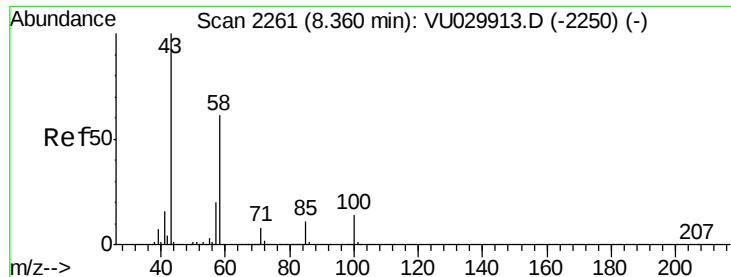
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

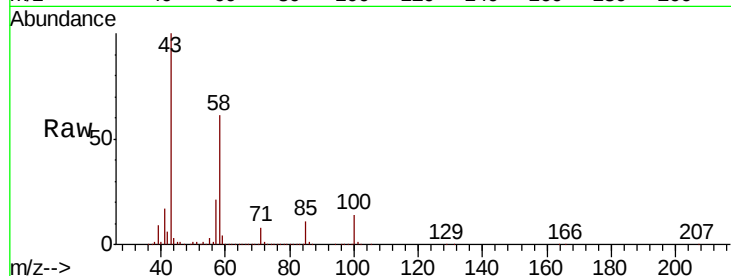




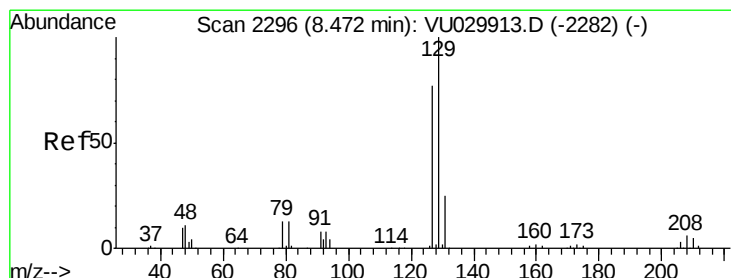
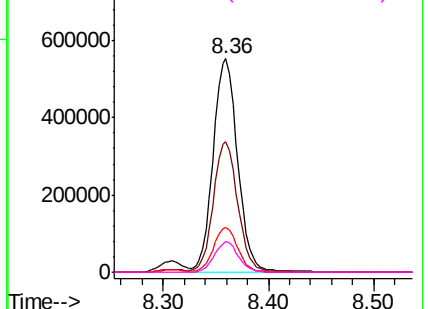
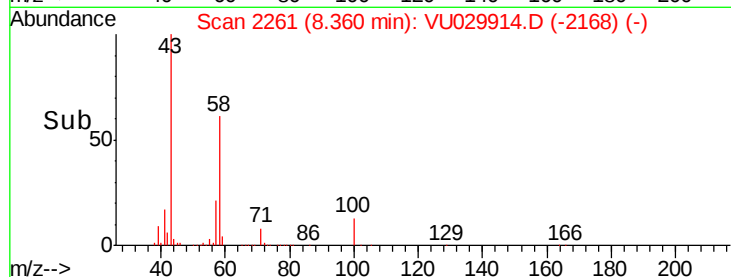
#48
2-Hexanone
Concen: 201.054 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU029914.D
Acq: 09 Mar 2019 12:27

Instrument :
MSVOA_U
ClientSampleId :
VSTD10045

Tgt Ion: 43 Resp: 892524
Ion Ratio Lower Upper
43 100
58 60.9 49.2 73.8
57 20.8 16.6 25.0
100 14.0 11.4 17.0

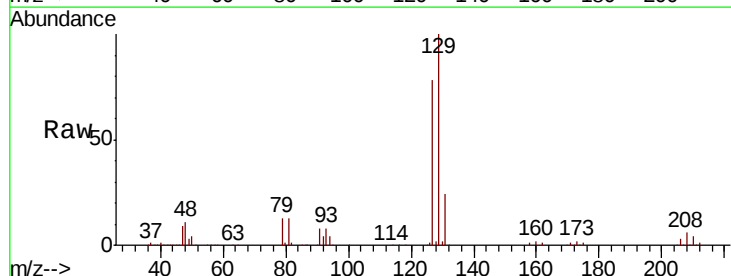


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

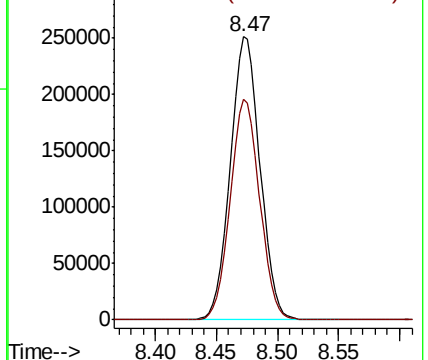
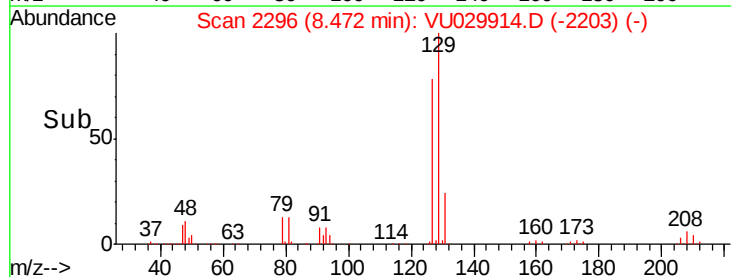


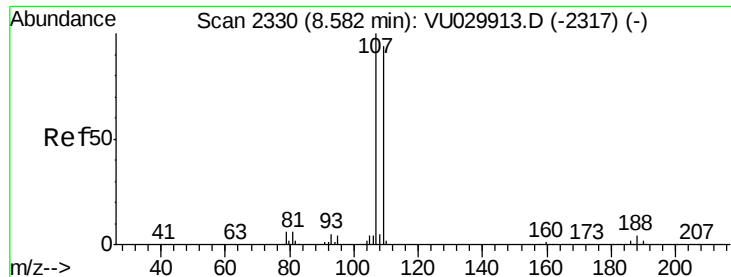
#49
Dibromochloromethane
Concen: 93.102 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU029914.D
Acq: 09 Mar 2019 12:27

Tgt Ion: 129 Resp: 426306
Ion Ratio Lower Upper
129 100
127 78.2 54.3 100.8



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#50

1,2-Dibromoethane

Concen: 97.142 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD10045

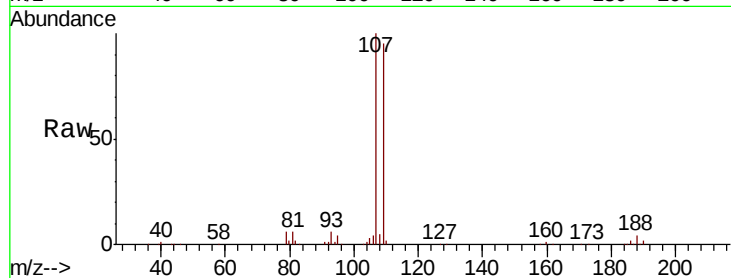
Tgt Ion:107 Resp: 413332

Ion Ratio Lower Upper

107 100

109 94.9 65.7 121.9

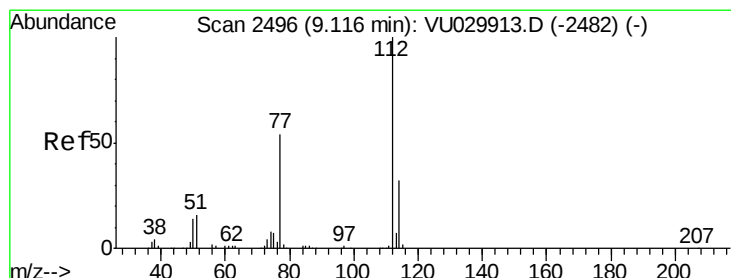
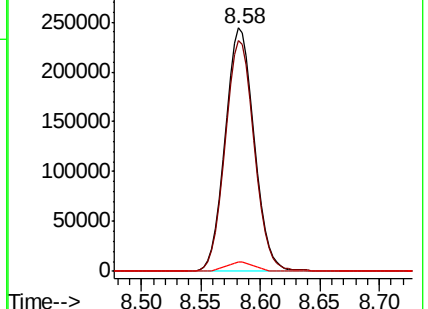
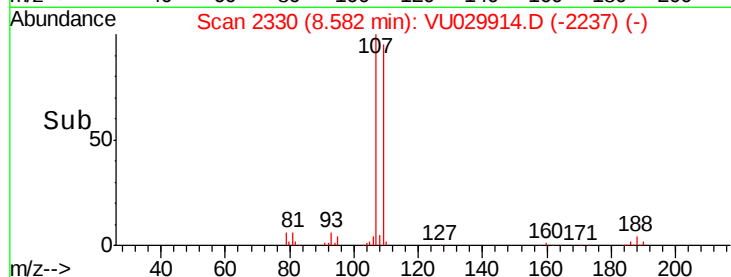
188 3.8 2.9 4.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 97.298 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

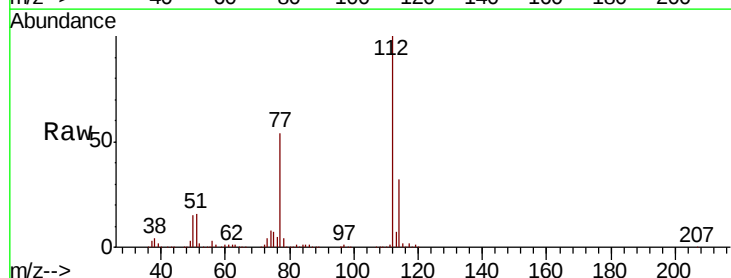
Tgt Ion:112 Resp: 1080482

Ion Ratio Lower Upper

112 100

114 31.6 22.4 41.6

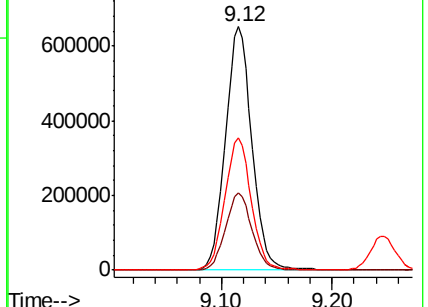
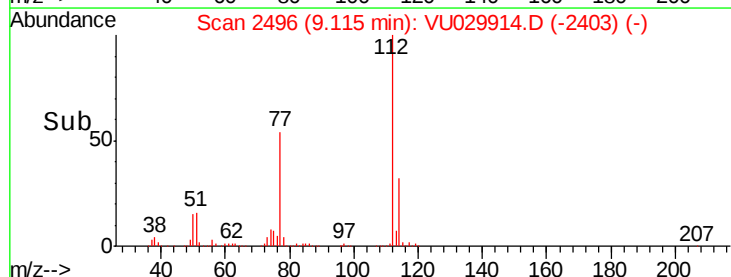
77 54.2 43.5 65.3

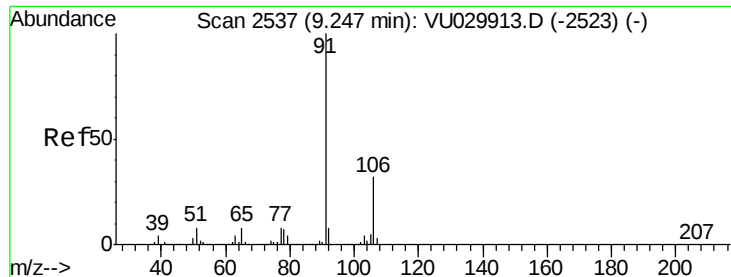


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 98.794 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

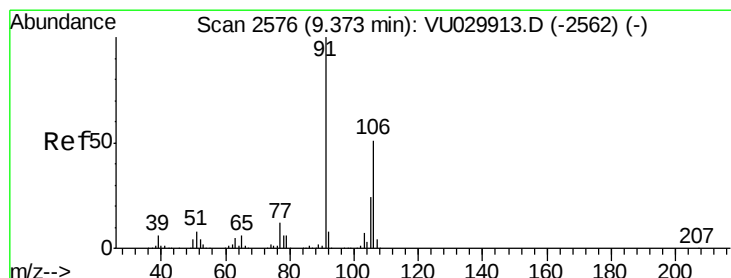
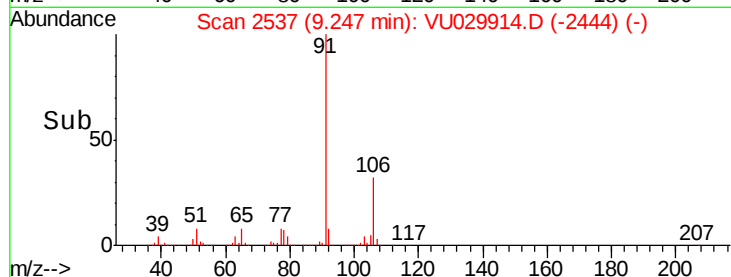
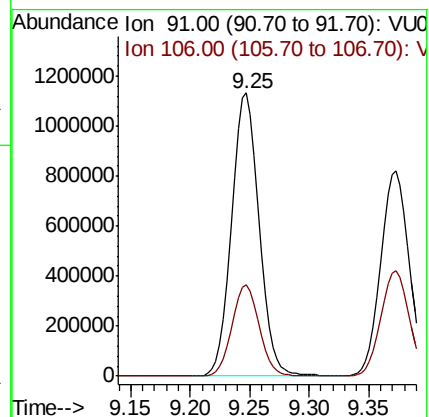
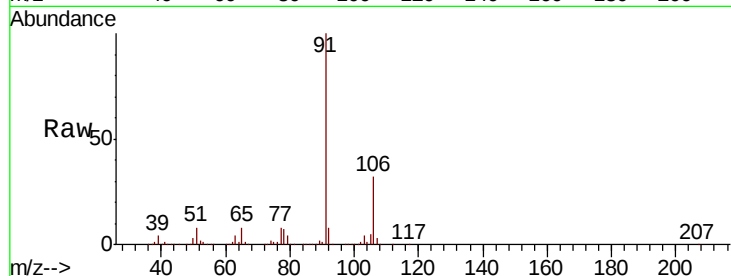
VSTD10045

Tgt Ion: 91 Resp: 1816434

Ion Ratio Lower Upper

91 100

106 32.3 22.5 41.7



#53

m,p-Xylene

Concen: 96.588 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU029914.D

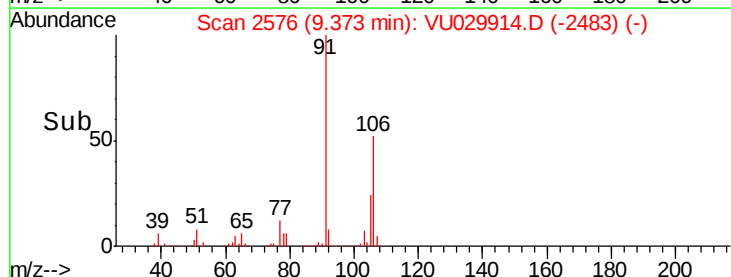
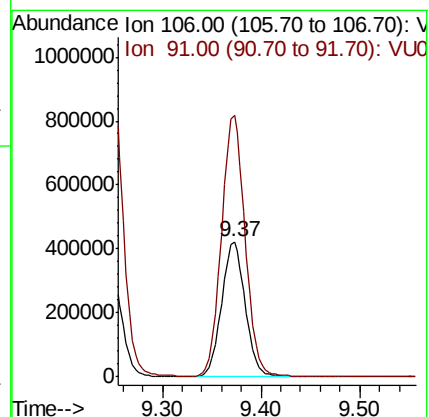
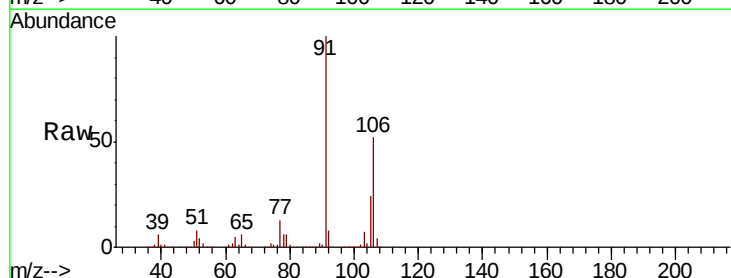
Acq: 09 Mar 2019 12:27

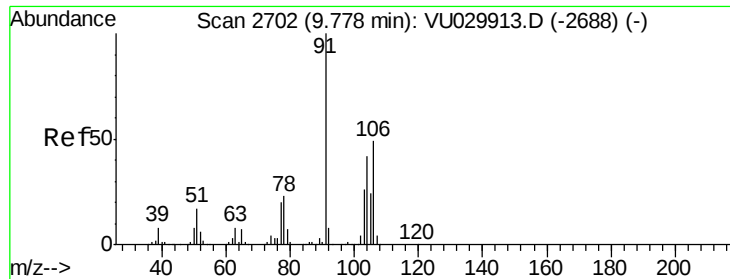
Tgt Ion: 106 Resp: 708940

Ion Ratio Lower Upper

106 100

91 193.6 137.8 256.0

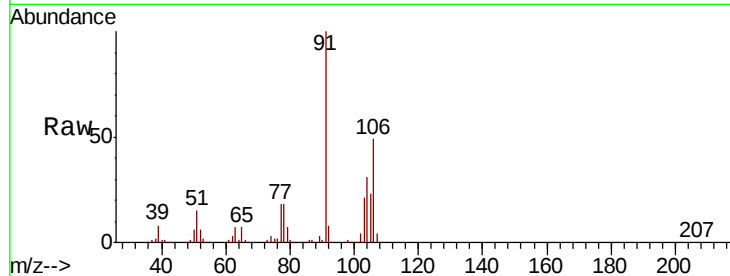




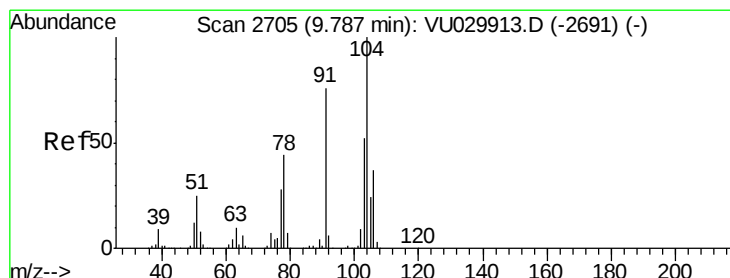
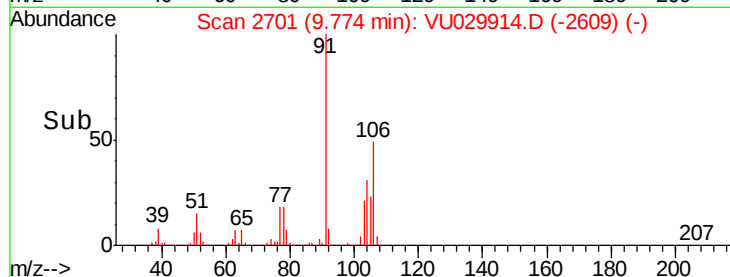
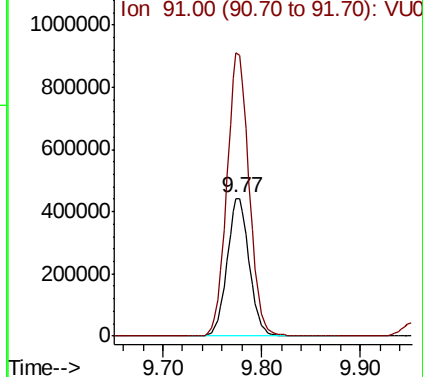
#54
o-xylene
Concen: 94.768 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU029914.D
Acq: 09 Mar 2019 12:27

Instrument :
MSVOA_U
ClientSampleId :
VSTD10045

Tgt Ion:106 Resp: 696950
Ion Ratio Lower Upper
106 100
91 205.7 143.6 266.8

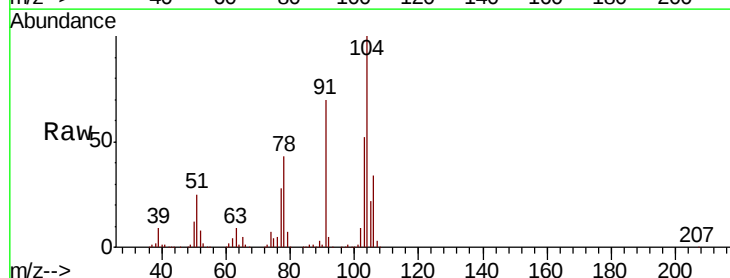


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

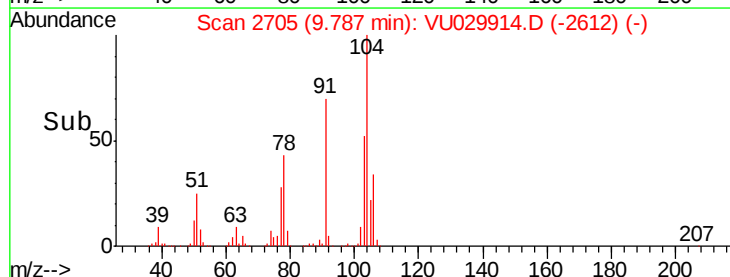
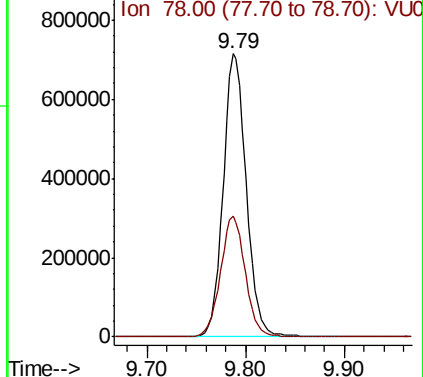


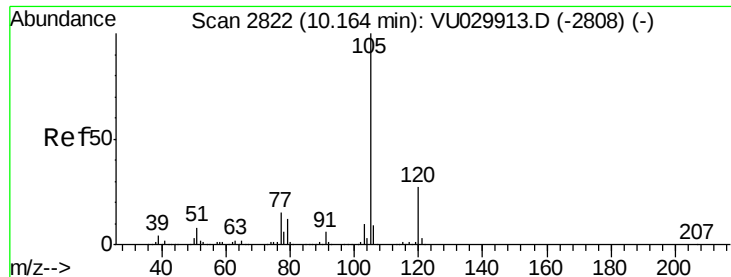
#55
Styrene
Concen: 94.772 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. -0.00 min
Lab File: VU029914.D
Acq: 09 Mar 2019 12:27

Tgt Ion:104 Resp: 1169034
Ion Ratio Lower Upper
104 100
78 42.7 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 94.020 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD10045

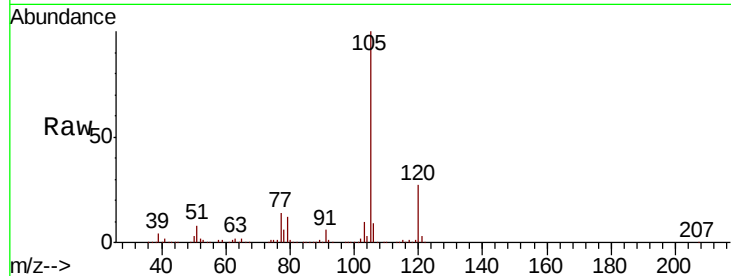
Tgt Ion:105 Resp: 1808007

Ion Ratio Lower Upper

105 100

120 27.2 21.6 32.4

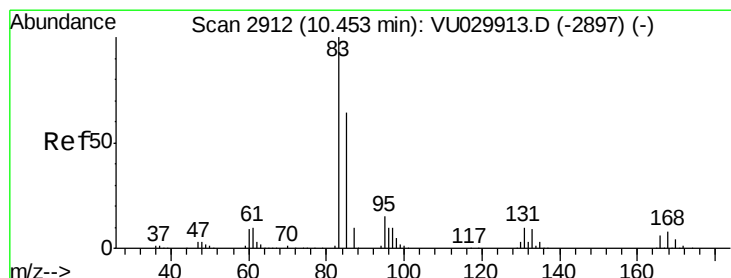
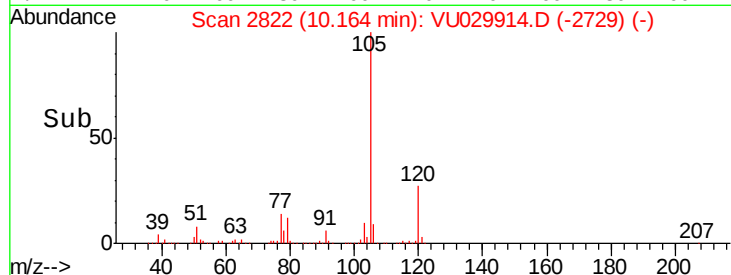
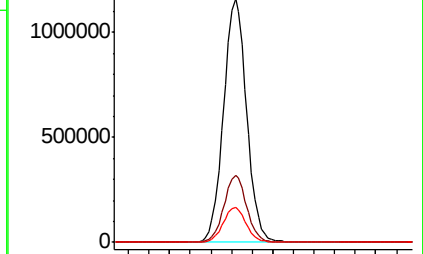
77 14.4 11.5 17.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 99.402 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

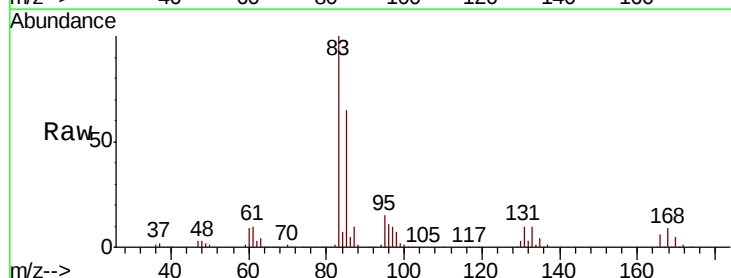
Tgt Ion: 83 Resp: 676481

Ion Ratio Lower Upper

83 100

85 64.6 45.0 83.6

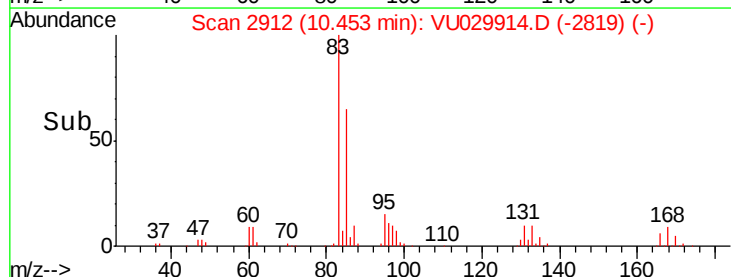
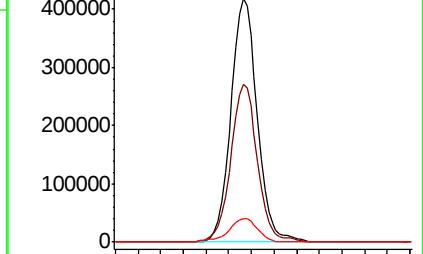
131 9.8 8.0 12.0

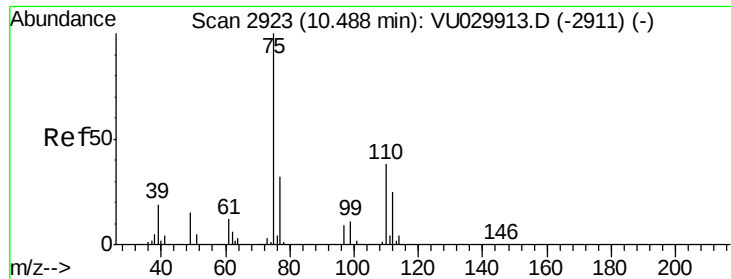


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

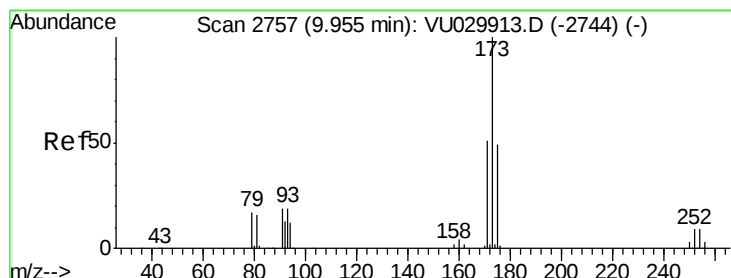
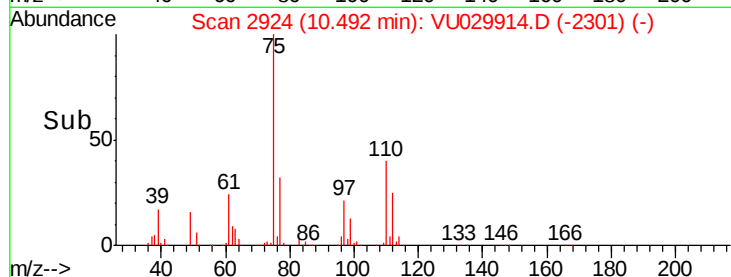
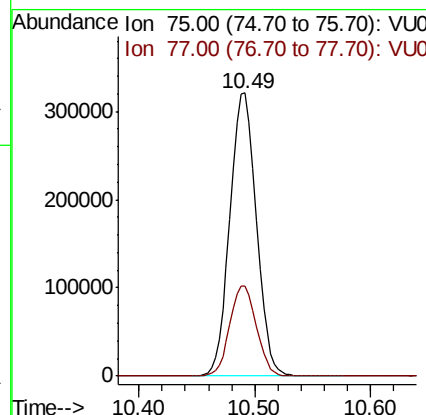
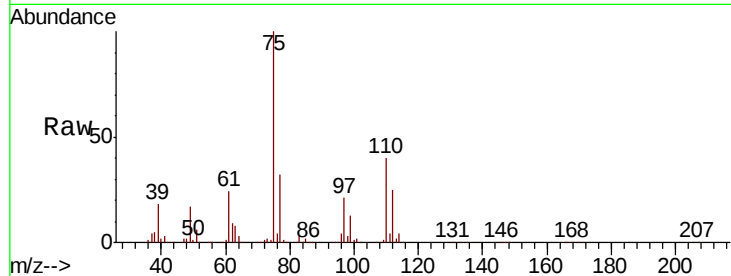




#59
 1,2,3-Trichloropropane
 Concen: 98.484 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

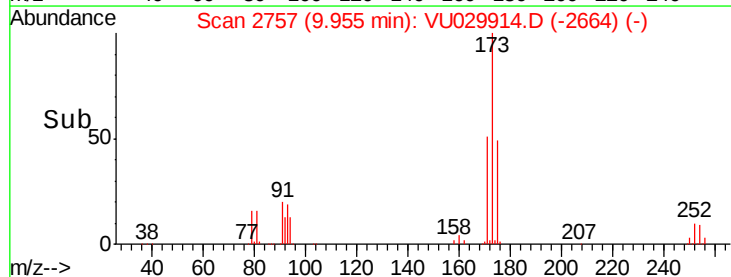
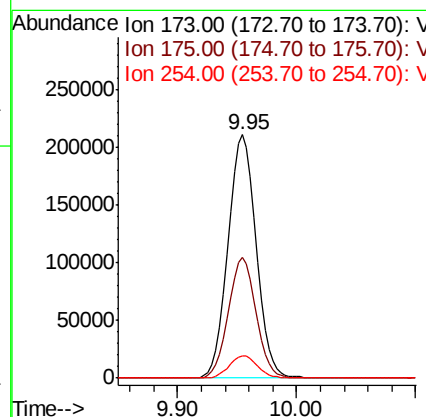
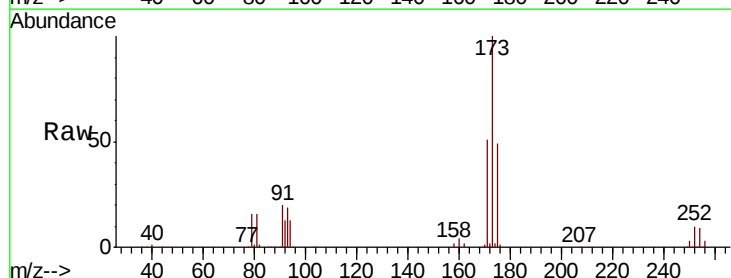
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10045

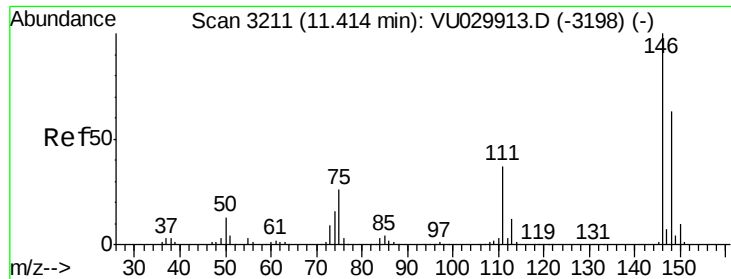
Tgt Ion: 75 Resp: 506734
 Ion Ratio Lower Upper
 75 100
 77 32.0 26.1 39.1



#61
 Bromoform
 Concen: 89.718 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

Tgt Ion: 173 Resp: 345833
 Ion Ratio Lower Upper
 173 100
 175 48.6 38.7 58.1
 254 9.1 7.4 11.2

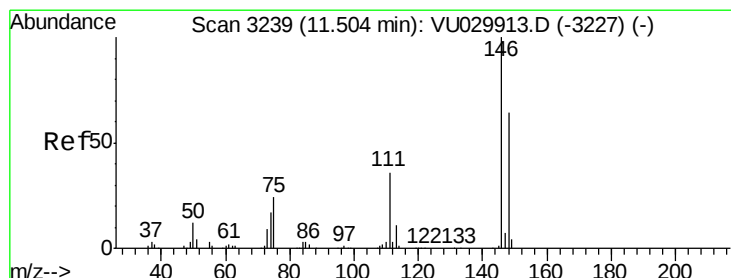
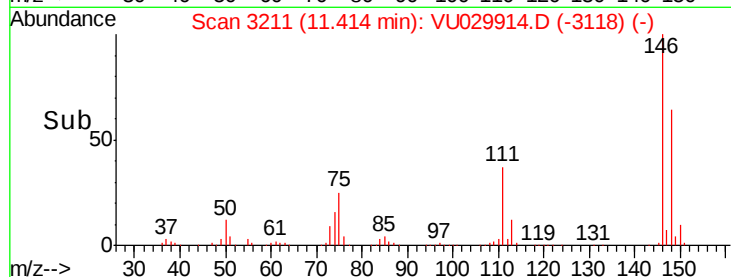
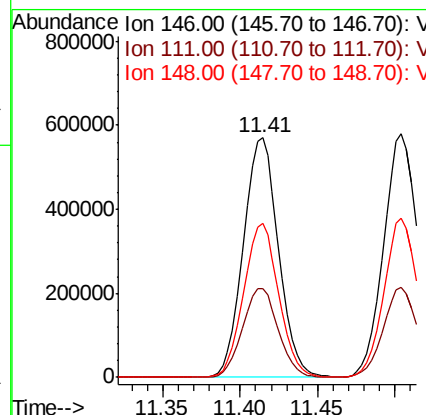
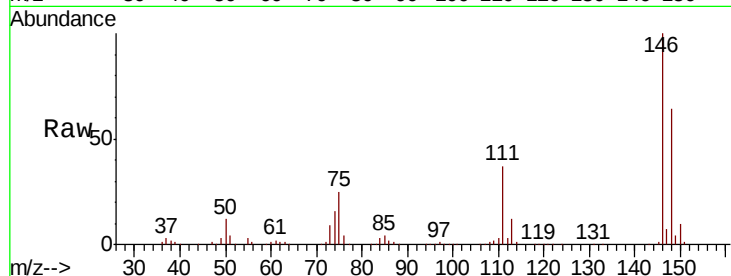




#62
 1,3-Dichlorobenzene
 Concen: 97.286 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

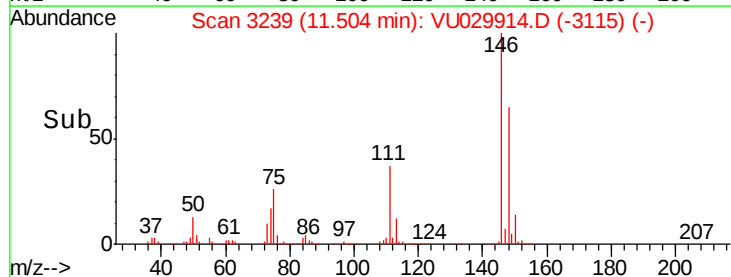
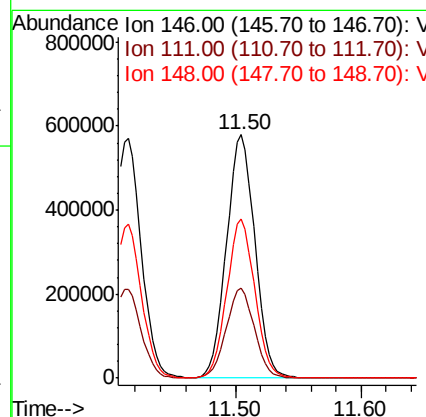
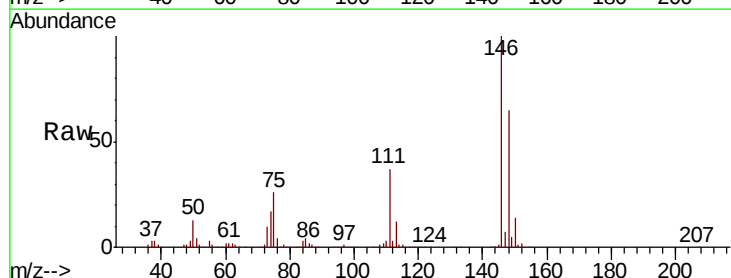
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10045

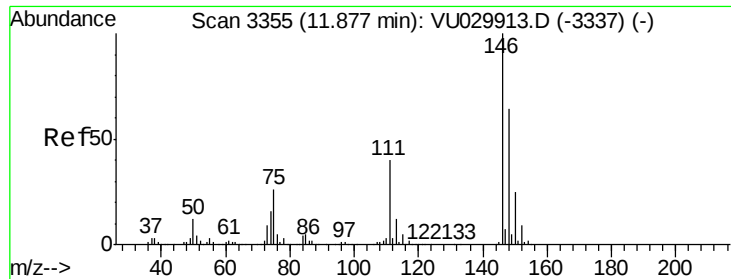
Tgt Ion:146 Resp: 898428
 Ion Ratio Lower Upper
 146 100
 111 37.3 25.7 47.7
 148 64.0 44.2 82.0



#63
 1,4-Dichlorobenzene
 Concen: 97.527 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

Tgt Ion:146 Resp: 907549
 Ion Ratio Lower Upper
 146 100
 111 36.8 25.3 46.9
 148 65.4 44.9 83.3

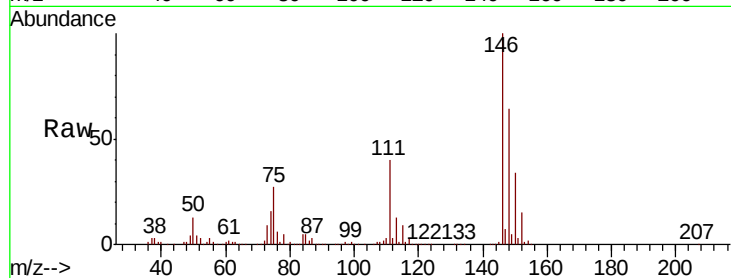




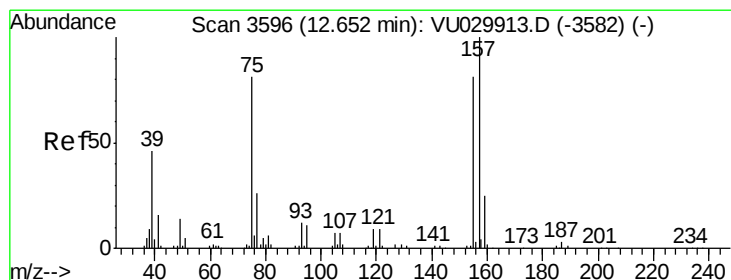
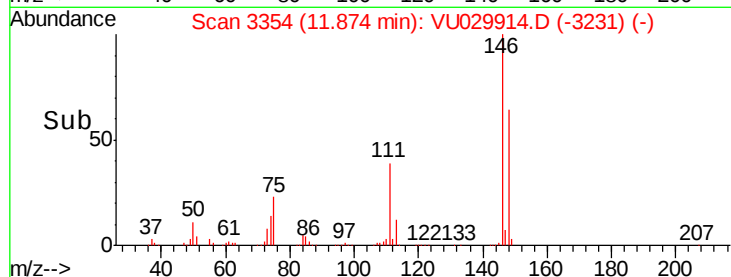
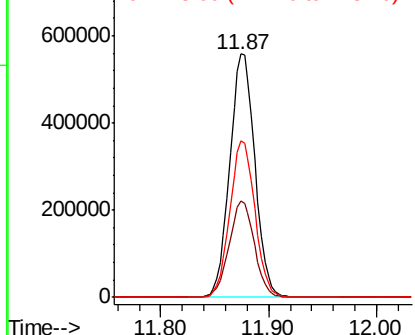
#65
 1,2-Dichlorobenzene
 Concen: 94.387 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10045

Tgt Ion: 146 Resp: 907605
 Ion Ratio Lower Upper
 146 100
 111 39.5 31.8 47.6
 148 64.3 51.0 76.6

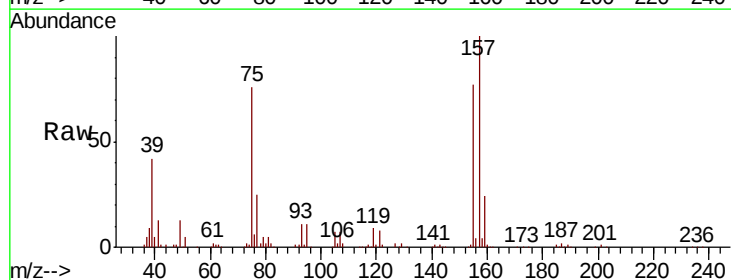


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

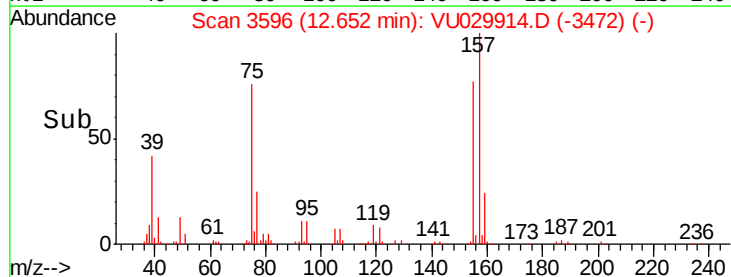
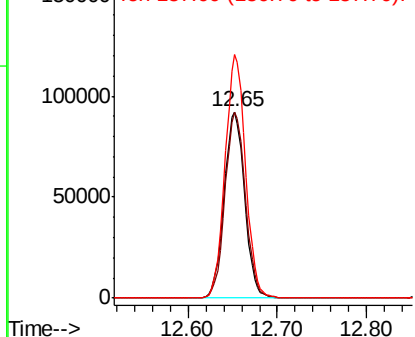


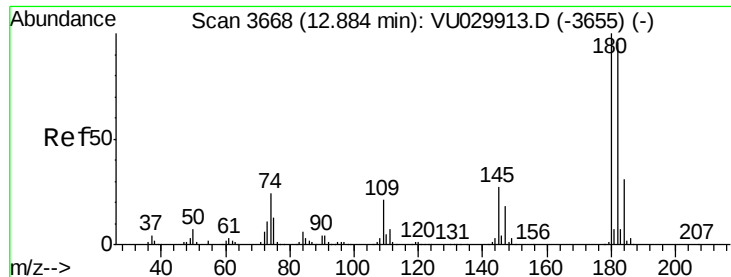
#66
 1,2-Dibromo-3-chloropropane
 Concen: 99.228 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

Tgt Ion: 75 Resp: 147104
 Ion Ratio Lower Upper
 75 100
 155 100.2 79.8 119.8
 157 130.9 98.8 148.2



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

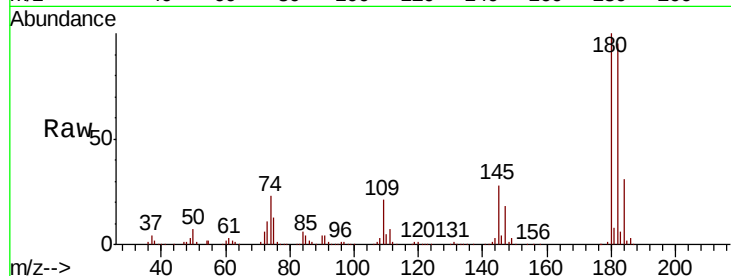




#67
 1,3,5-Trichlorobenzene
 Concen: 98.633 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10045

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.7	115.1
184	30.7	24.2	36.4
145	28.0	22.0	33.0



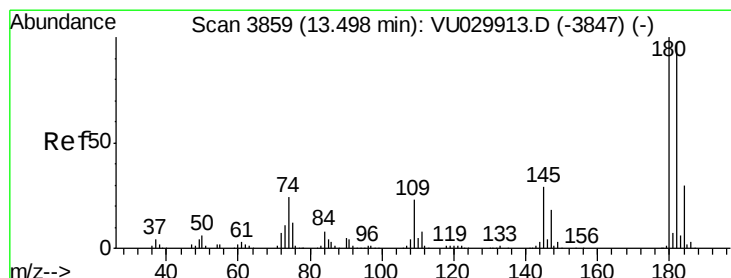
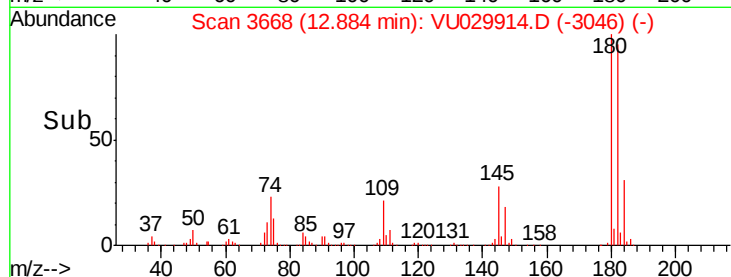
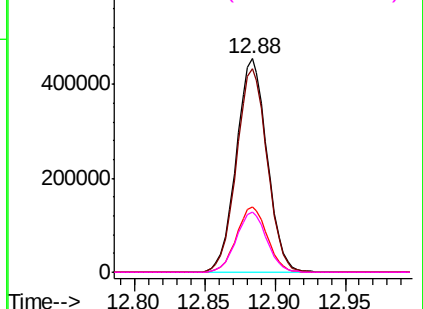
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

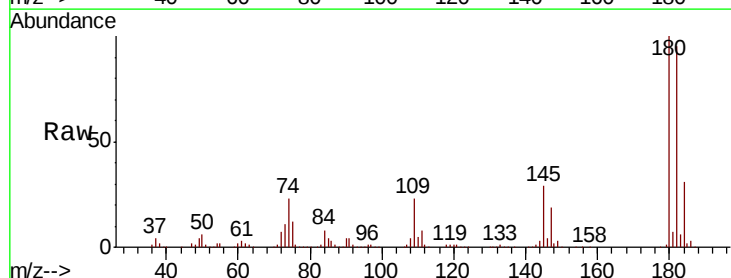
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 103.782 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU029914.D
 Acq: 09 Mar 2019 12:27

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.0	114.0
145	28.6	22.7	34.1

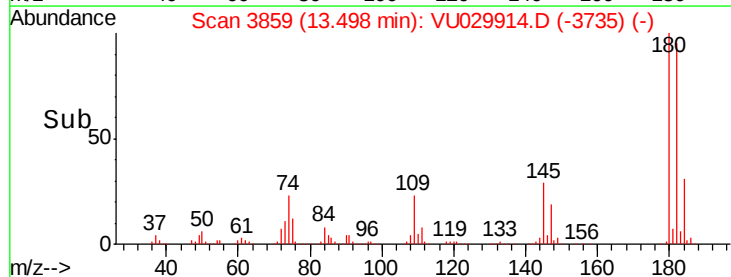
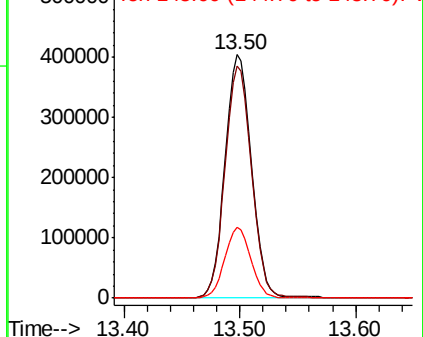


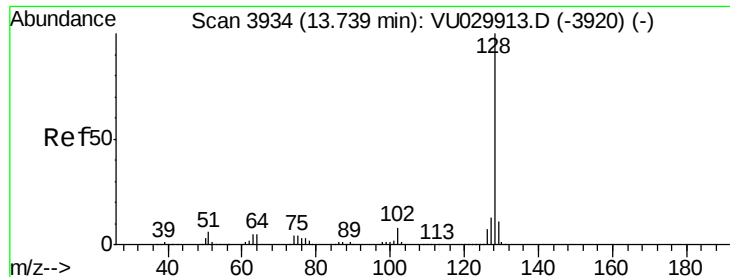
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 106.001 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD10045

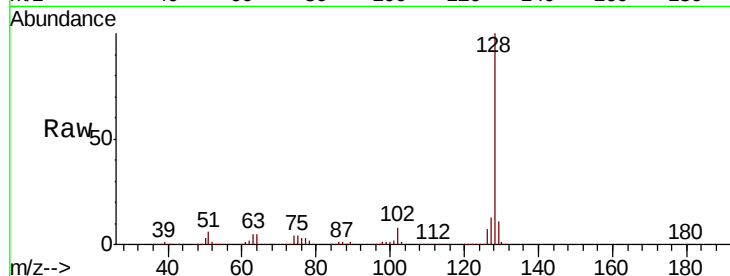
Tgt Ion:128 Resp: 1980725

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

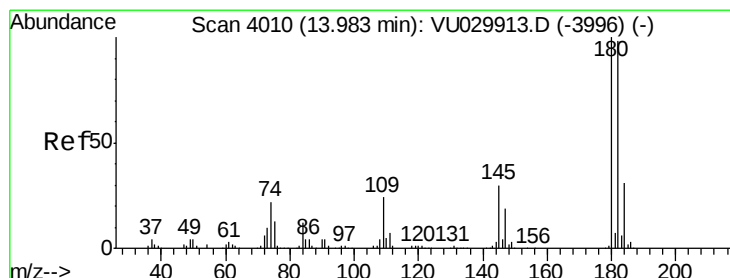
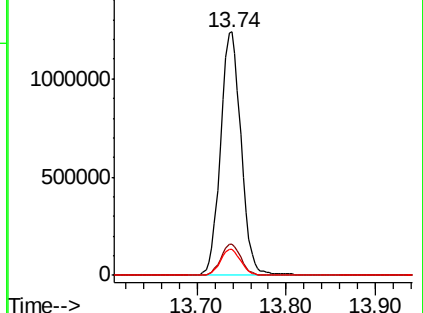
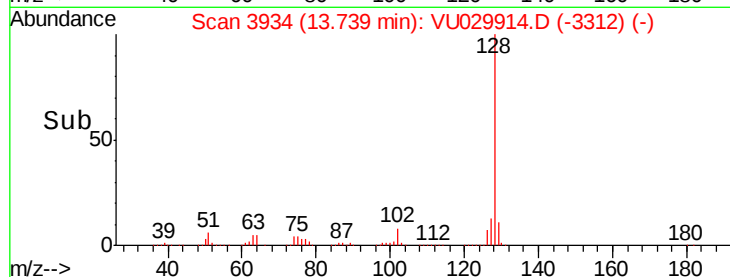
129 10.7 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 100.027 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU029914.D

Acq: 09 Mar 2019 12:27

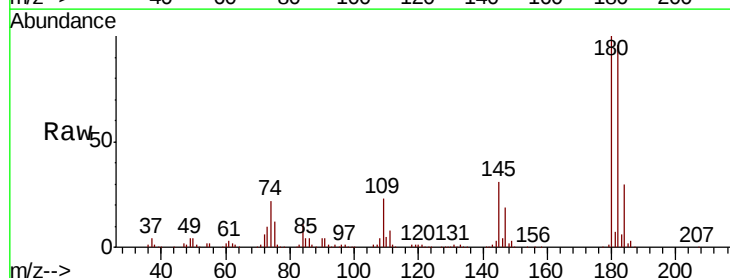
Tgt Ion:180 Resp: 649726

Ion Ratio Lower Upper

180 100

182 95.6 76.3 114.5

145 30.4 24.3 36.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

