

Data File : VU031892.D
Acq On : 10 May 2019 16:37
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

Quant Time: May 11 01:02:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Sat May 11 00:57:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	1127843	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	1114614	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	493121	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	437279	46.33	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.66%
7) Chloroethane-d5	1.67	69	361248	49.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.04%
11) 1,1-Dichloroethene-d2	2.27	63	816286	43.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.84%
21) 2-Butanone-d5	4.17	46	724053	84.66	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	84.66%
24) Chloroform-d	4.64	84	773354	44.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.48%
26) 1,2-Dichloroethane-d4	5.31	65	494799	43.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.62%
32) Benzene-d6	5.33	84	1589251	46.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.86%
36) 1,2-Dichloropropane-d6	6.32	67	527364	43.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.58%
41) Toluene-d8	7.56	98	1455222	48.81	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.62%
43) trans-1,3-Dichloropropene-	7.85	79	231858	44.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.70%
47) 2-Hexanone-d5	8.31	63	503369	96.58	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.58%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	761547	47.12	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.24%
64) 1,2-Dichlorobenzene-d4	11.85	152	502839	48.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.98%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	548382	44.216	ug/L	100
3) Chloromethane	1.33	50	620761	41.369	ug/L	98
5) Vinyl chloride	1.40	62	624176	44.492	ug/L	99
6) Bromomethane	1.61	94	342644	46.314	ug/L	98
8) Chloroethane	1.69	64	363653	47.421	ug/L	95
9) Trichlorofluoromethane	1.88	101	676570	42.305	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	395091	43.702	ug/L	98
12) 1,1-Dichloroethene	2.28	96	393420	44.709	ug/L	95
13) Acetone	2.32	43	611799	63.507	ug/L	99
14) Carbon disulfide	2.47	76	1236881	42.359	ug/L	99
15) Methyl Acetate	2.61	43	532880	36.557	ug/L #	89
16) Methylene chloride	2.69	84	479668	46.190	ug/L	93
17) trans-1,2-Dichloroethene	2.98	96	414819	45.241	ug/L	92
18) Methyl tert-butyl Ether	3.00	73	1352968	46.315	ug/L	97
19) 1,1-Dichloroethane	3.44	63	844847	43.752	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	472103	48.000	ug/L	95
22) 2-Butanone	4.26	43	821503	76.970	ug/L	90

Data File : VU031892.D
Acq On : 10 May 2019 16:37
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

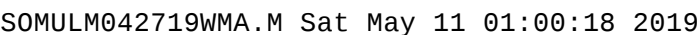
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

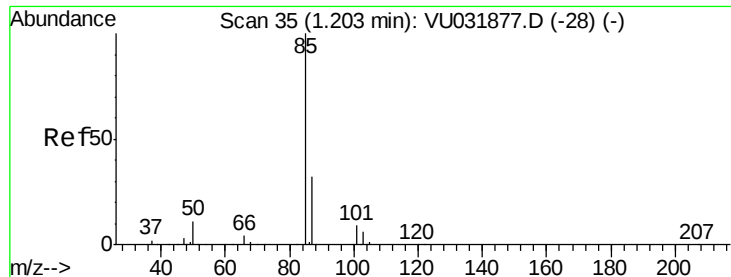
Quant Time: May 11 01:02:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Sat May 11 00:57:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	223230	46.708	ug/L	82
25) Chloroform	4.67	83	818995	44.353	ug/L	99
27) 1,2-Dichloroethane	5.40	62	643381	42.896	ug/L	100
29) Cyclohexane	4.99	56	759337	43.045	ug/L	93
30) 1,1,1-Trichloroethane	4.91	97	639500	40.949	ug/L	99
31) Carbon tetrachloride	5.13	117	531960	39.852	ug/L	99
33) Benzene	5.38	78	1877369	45.812	ug/L	100
34) Trichloroethene	6.18	95	450296	45.330	ug/L	99
35) Methylcyclohexane	6.41	83	724306	48.653	ug/L	94
37) 1,2-Dichloropropane	6.43	63	512502	44.053	ug/L	99
38) Bromodichloromethane	6.75	83	605763	42.944	ug/L	98
39) cis-1,3-Dichloropropene	7.26	75	735841	47.867	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	1444304	80.691	ug/L	94
42) Toluene	7.63	91	2003472	49.079	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	641854	46.034	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	449678	46.886	ug/L	98
46) Tetrachloroethene	8.22	164	300919	44.435	ug/L	94
48) 2-Hexanone	8.36	43	1150511	79.474	ug/L #	93
49) Dibromochloromethane	8.47	129	439716	44.063	ug/L	98
50) 1,2-Dibromoethane	8.58	107	467715	46.174	ug/L	98
51) Chlorobenzene	9.12	112	1165578	48.318	ug/L	99
52) Ethylbenzene	9.25	91	2109953	49.828	ug/L	98
53) m,p-Xylene	9.37	106	754360	51.131	ug/L	94
54) o-xylene	9.77	106	774604	52.959	ug/L	93
55) Styrene	9.79	104	1332896	53.339	ug/L	96
56) Isopropylbenzene	10.16	105	1958827	50.930	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	801017	47.066	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	630746	45.728	ug/L	100
61) Bromoform	9.95	173	312882	42.803	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	800745	49.056	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	821862	48.617	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	853562	49.202	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	166849	41.440	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	576162	47.127	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	474071	48.981	ug/L	100
69) Naphthalene	13.74	128	1755391	53.194	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	523168	47.478	ug/L	99

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

Quant Time: May 11 01:02:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Sat May 11 00:57:57 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 44.216 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

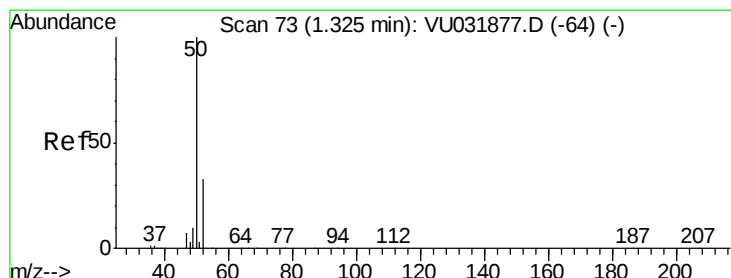
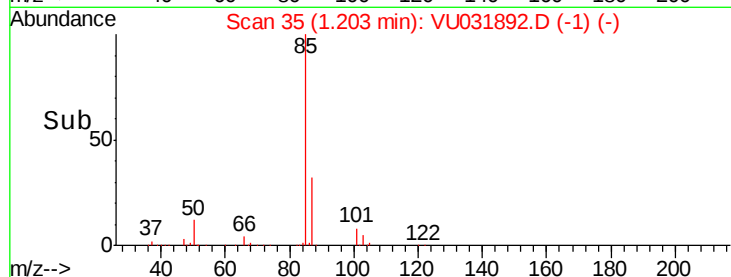
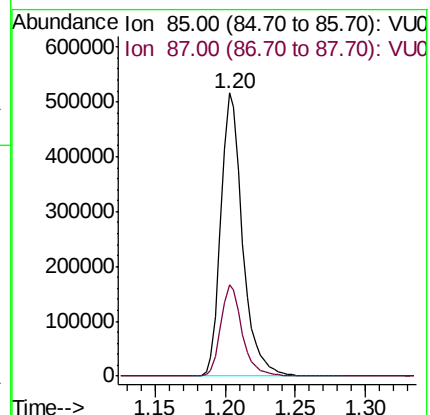
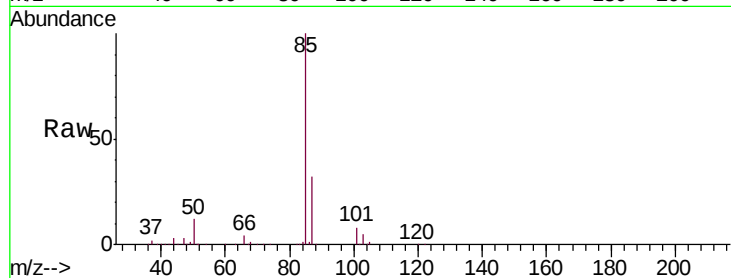
VSTD05040

Tgt Ion: 85 Resp: 548382

Ion Ratio Lower Upper

85 100

87 31.8 25.4 38.0



#3

Chloromethane

Concen: 41.369 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU031892.D

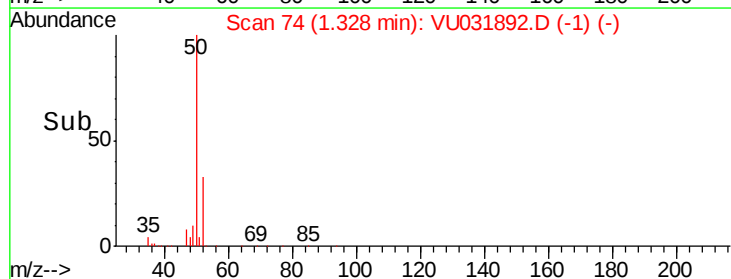
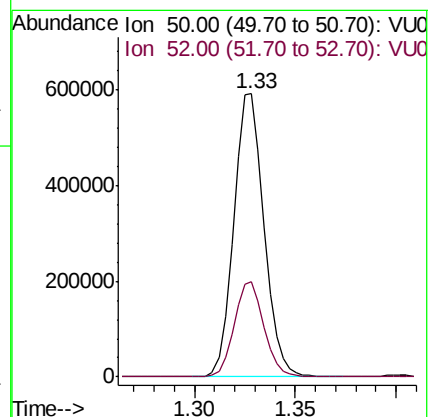
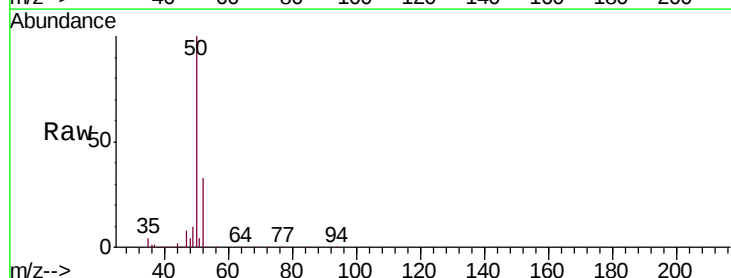
Acq: 10 May 2019 16:37

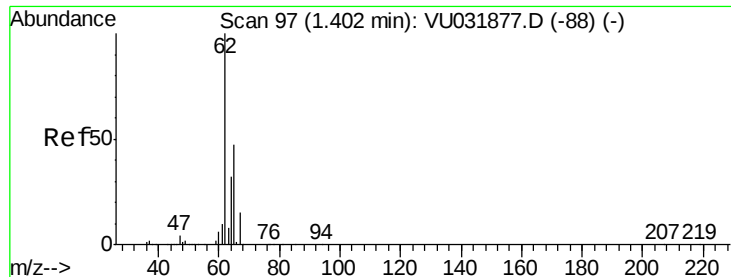
Tgt Ion: 50 Resp: 620761

Ion Ratio Lower Upper

50 100

52 33.4 22.6 42.0





#5

Vinyl chloride

Concen: 44.492 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

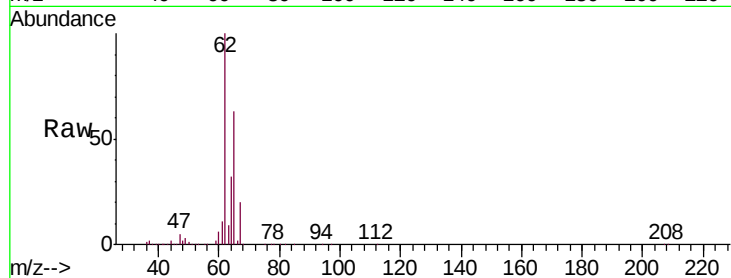
VSTD05040

Tgt Ion: 62 Resp: 624176

Ion Ratio Lower Upper

62 100

64 32.5 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU031877.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031877.D (-88) (-)

1.40

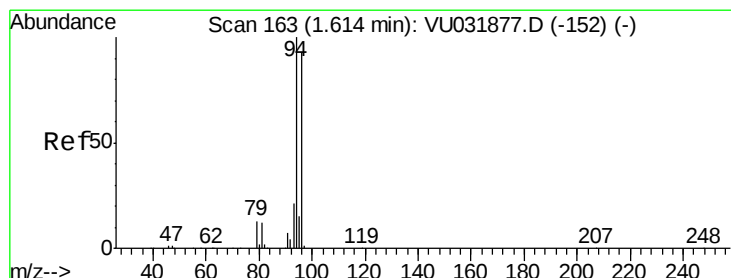
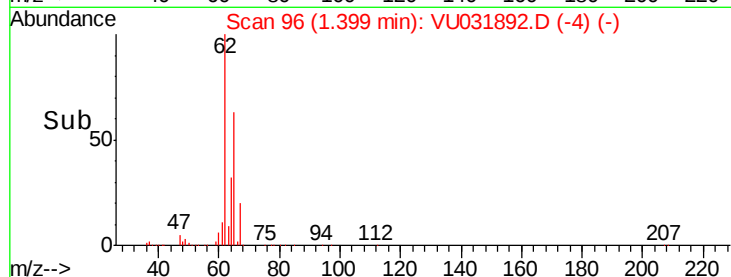
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 46.314 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU031892.D

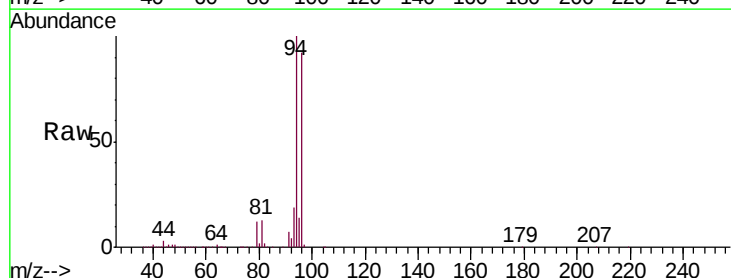
Acq: 10 May 2019 16:37

Tgt Ion: 94 Resp: 342644

Ion Ratio Lower Upper

94 100

96 92.1 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU031877.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU031877.D (-152) (-)

1.61

300000

250000

200000

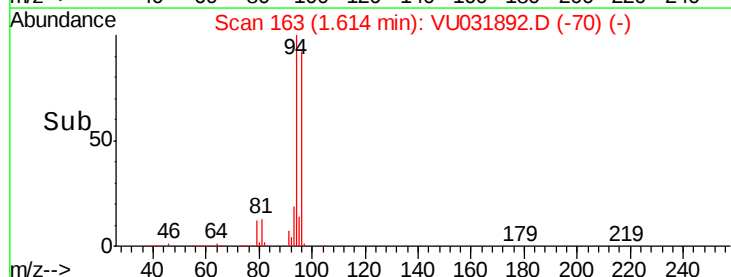
150000

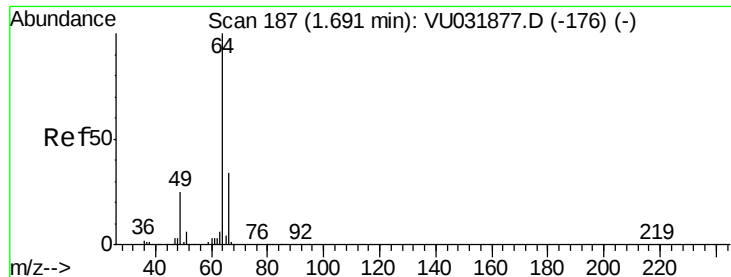
100000

50000

0

Time-->





#8

Chloroethane

Concen: 47.421 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

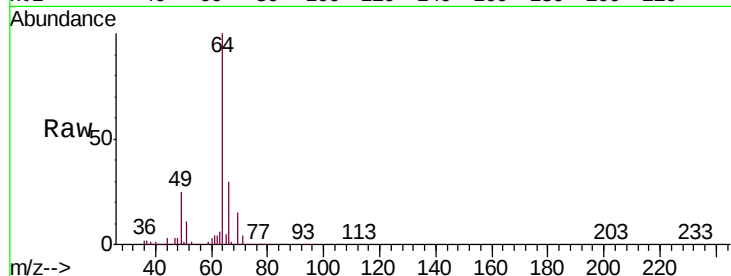
VSTD05040

Tgt Ion: 64 Resp: 363653

Ion Ratio Lower Upper

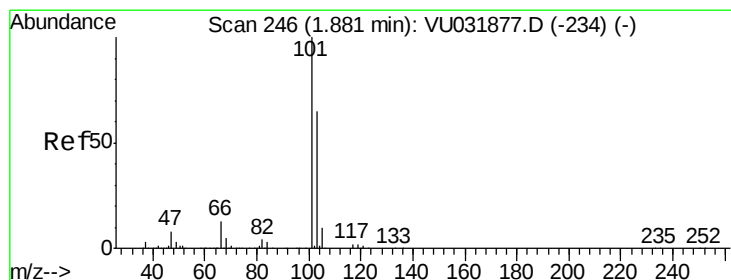
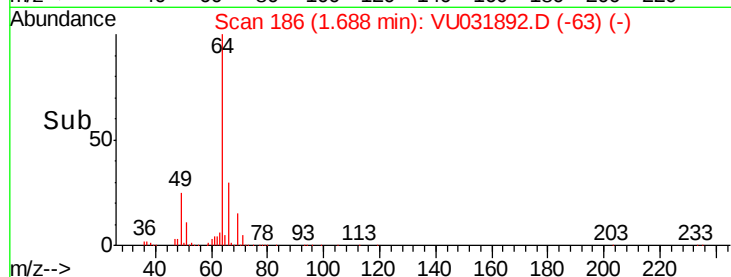
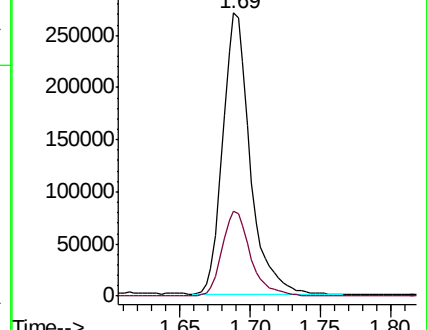
64 100

66 30.0 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VU031877.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU031877.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 42.305 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU031892.D

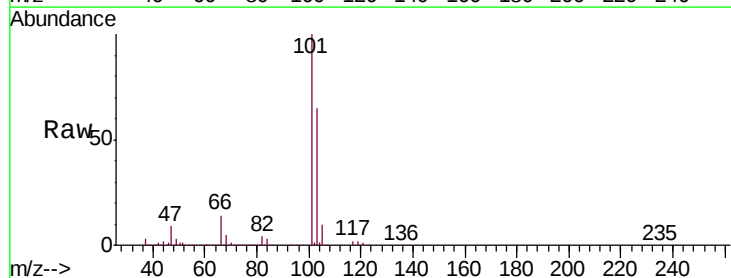
Acq: 10 May 2019 16:37

Tgt Ion: 101 Resp: 676570

Ion Ratio Lower Upper

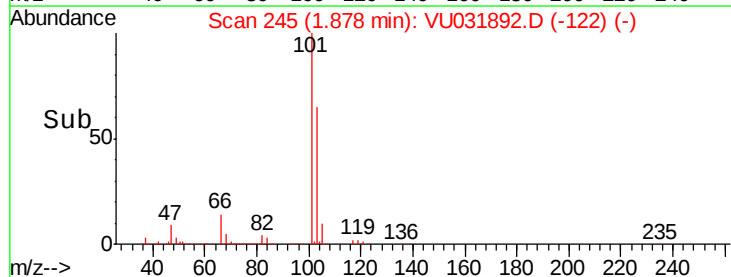
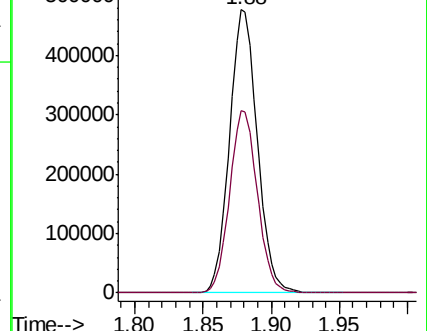
101 100

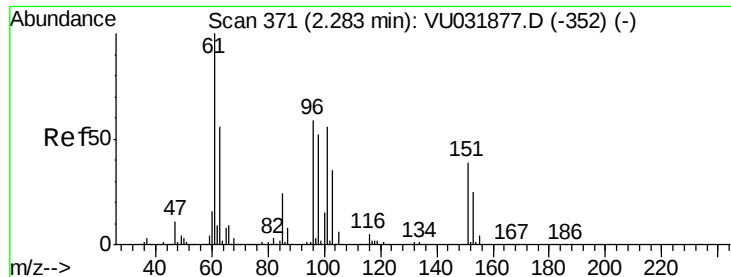
103 64.3 50.8 76.2



Abundance Ion 101.00 (100.70 to 101.70): VU031877.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU031877.D (-234) (-)





#10

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

Concen: 43.702 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

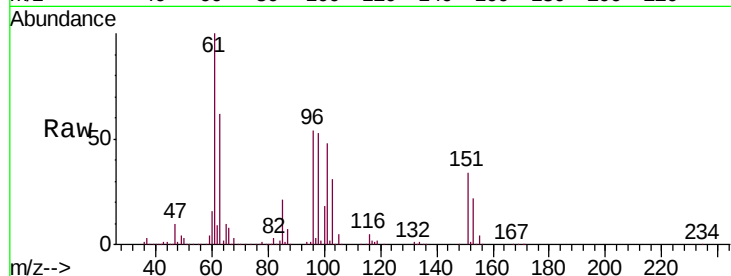
Tgt Ion: 101 Resp: 395091

Ion Ratio Lower Upper

101 100

85 43.6 36.1 54.1

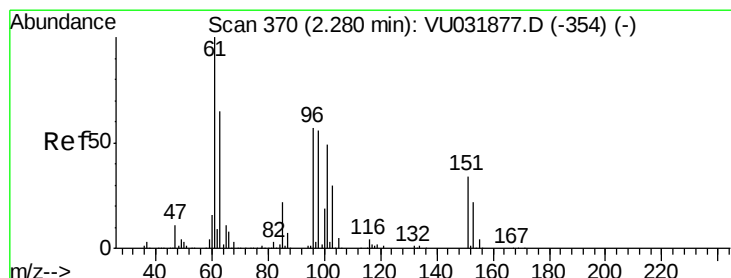
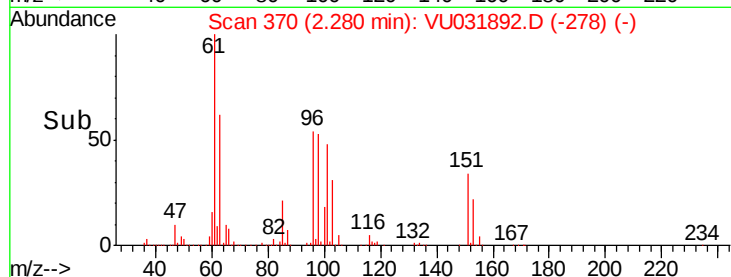
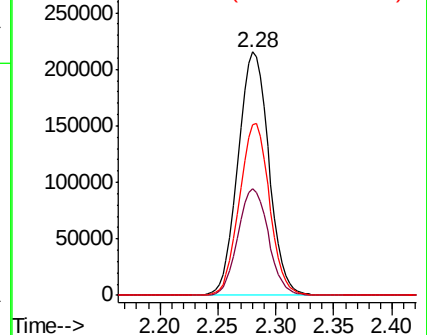
151 69.3 56.1 84.1



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: 44.709 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

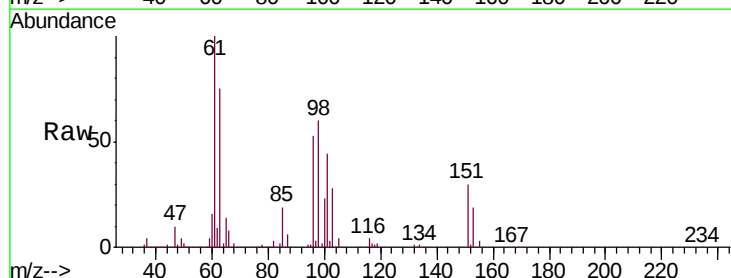
Tgt Ion: 96 Resp: 393420

Ion Ratio Lower Upper

96 100

61 186.9 135.0 250.6

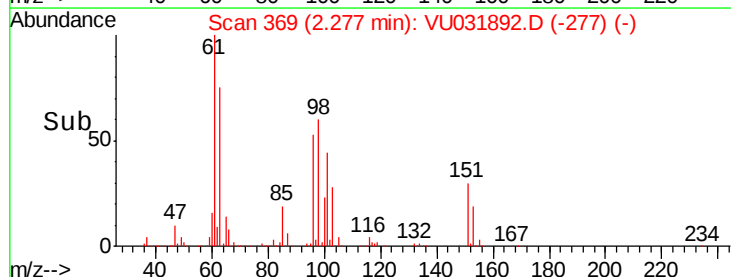
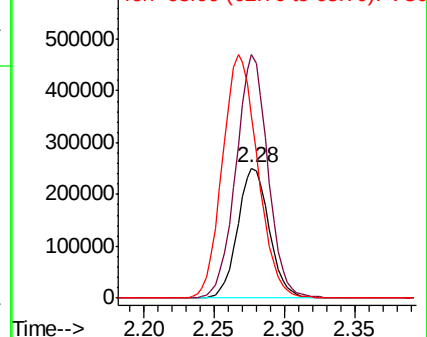
63 139.9 103.5 192.3

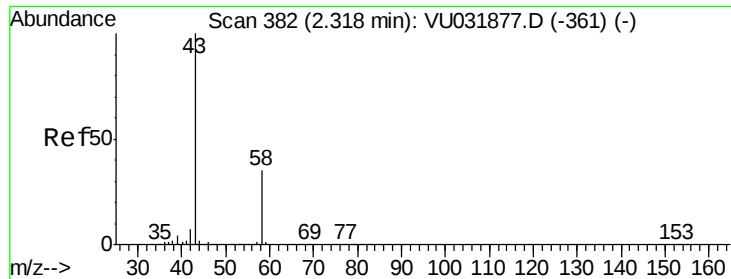


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 63.507 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

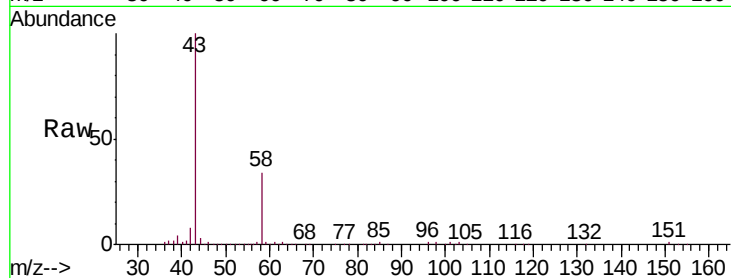
VSTD05040

Tgt Ion: 43 Resp: 611799

Ion Ratio Lower Upper

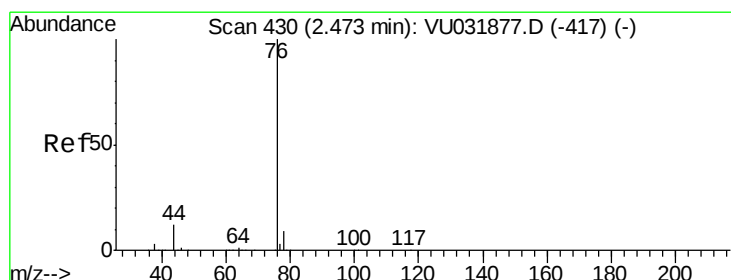
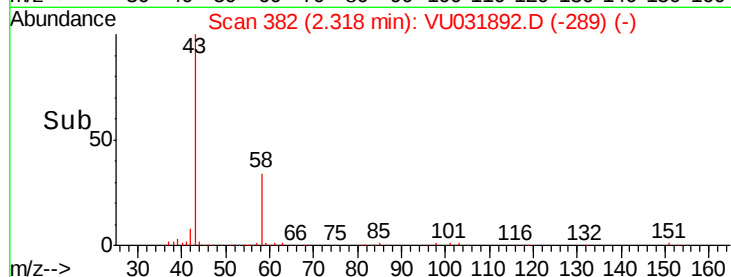
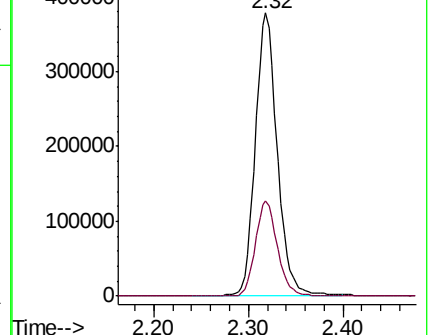
43 100

58 33.0 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031877.D (-361) (-)

Ion 58.00 (57.70 to 58.70): VU031877.D (-361) (-)



#14

Carbon disulfide

Concen: 42.359 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031892.D

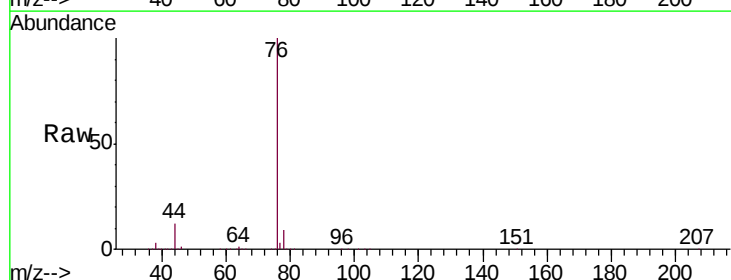
Acq: 10 May 2019 16:37

Tgt Ion: 76 Resp: 1236881

Ion Ratio Lower Upper

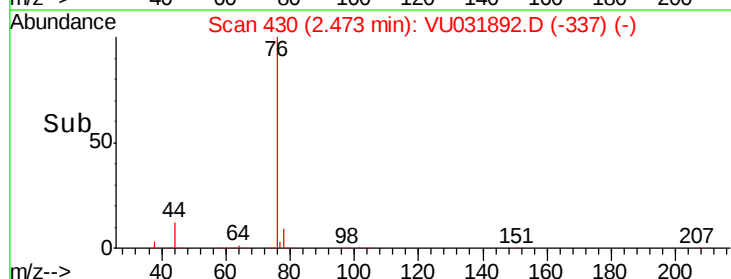
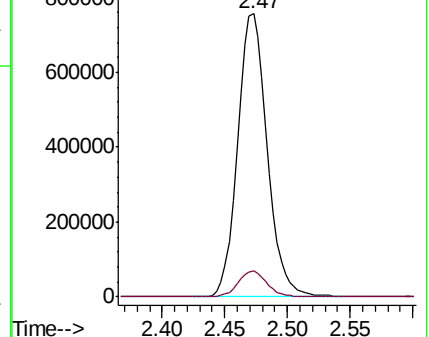
76 100

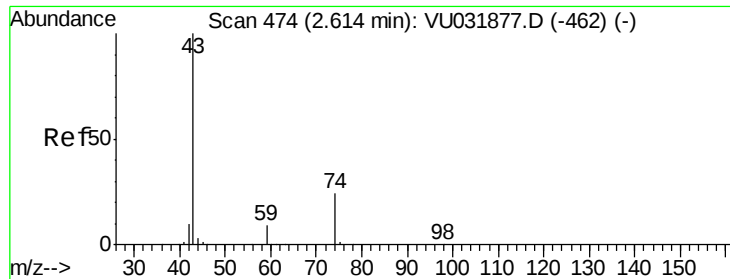
78 9.1 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU031877.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU031877.D (-417) (-)





#15

Methyl Acetate

Concen: 36.557 ug/L

RT: 2.61 min Scan# 473

Delta R.T. -0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

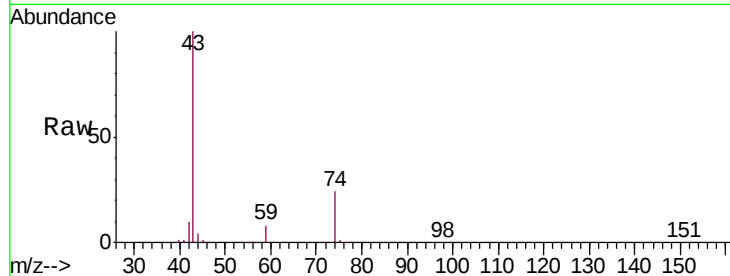
VSTD05040

Tgt Ion: 43 Resp: 532880

Ion Ratio Lower Upper

43 100

74 24.5 15.7 23.5#



Abundance Ion 43.00 (42.70 to 43.70): VU031892.D (-462) (-)

Ion 74.00 (73.70 to 74.70): VU031892.D (-462) (-)

2.61

300000

200000

100000

0

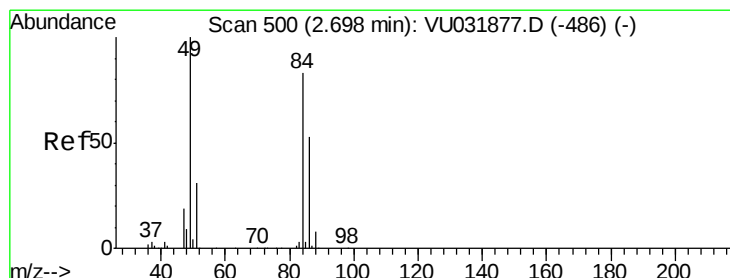
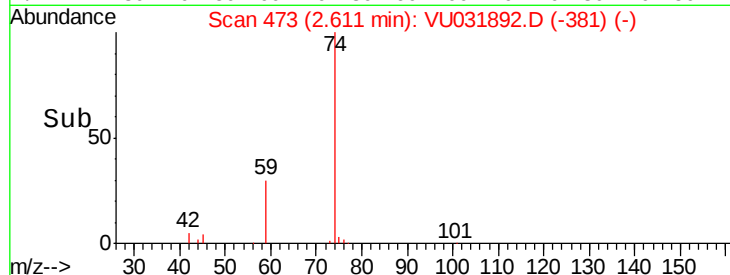
2.55

2.60

2.65

2.70

Time-->



#16

Methylene chloride

Concen: 46.190 ug/L

RT: 2.69 min Scan# 499

Delta R.T. -0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

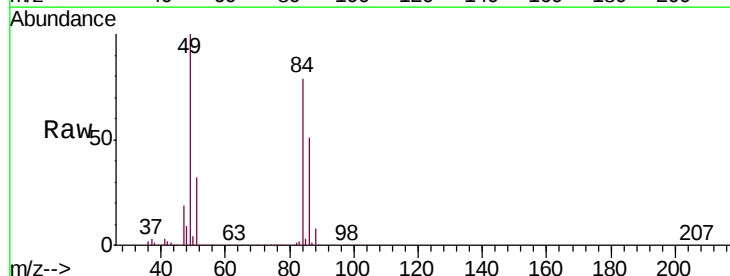
Tgt Ion: 84 Resp: 479668

Ion Ratio Lower Upper

84 100

86 65.0 44.7 83.1

49 126.5 96.5 179.3



Abundance Ion 84.00 (83.70 to 84.70): VU031892.D (-486) (-)

Ion 86.00 (85.70 to 86.70): VU031892.D (-486) (-)

Ion 49.00 (48.70 to 49.70): VU031892.D (-486) (-)

2.69

400000

300000

200000

100000

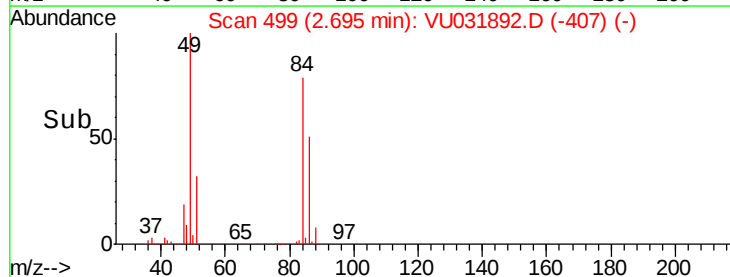
0

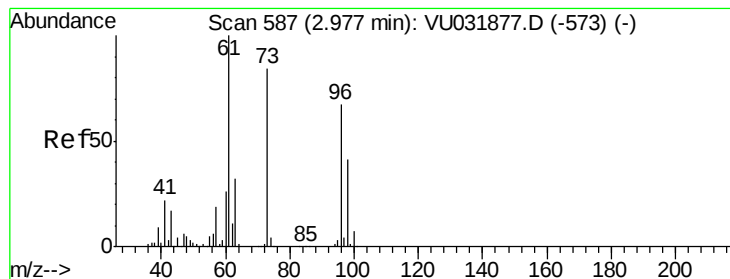
2.60

2.70

2.80

Time-->





#17

trans-1,2-Dichloroethene

Concen: 45.241 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

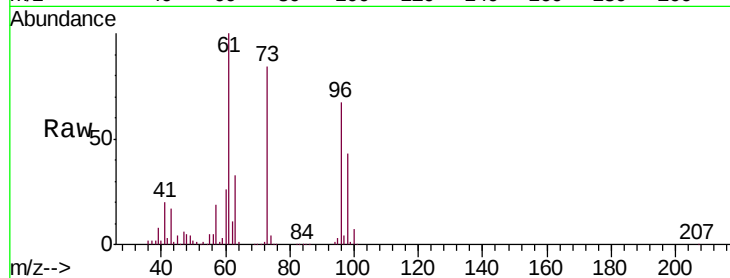
Tgt Ion: 96 Resp: 414819

Ion Ratio Lower Upper

96 100

61 149.8 114.5 212.7

98 63.9 45.4 84.2

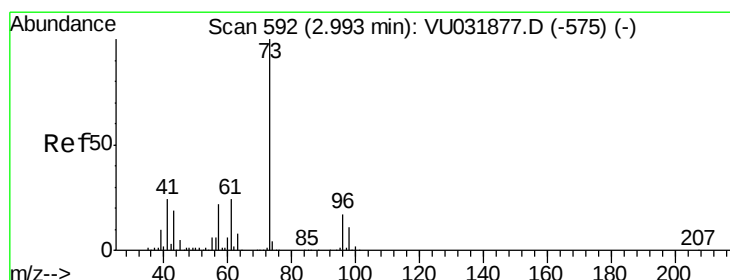
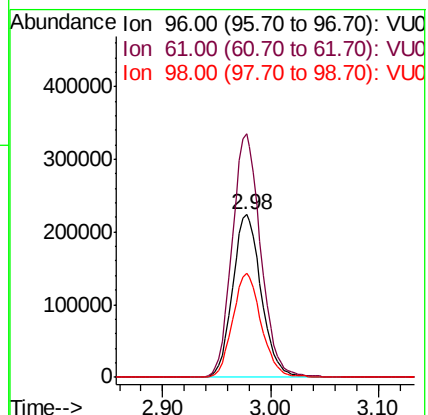
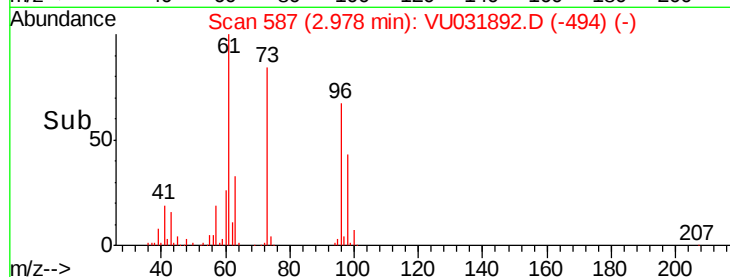


Abundance Ion 96.00 (95.70 to 96.70): VU031877.D (-573) (-)

Ion 61.00 (60.70 to 61.70): VU031877.D (-573) (-)

Ion 98.00 (97.70 to 98.70): VU031877.D (-573) (-)

Time-->



#18

Methyl tert-butyl Ether

Concen: 46.315 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

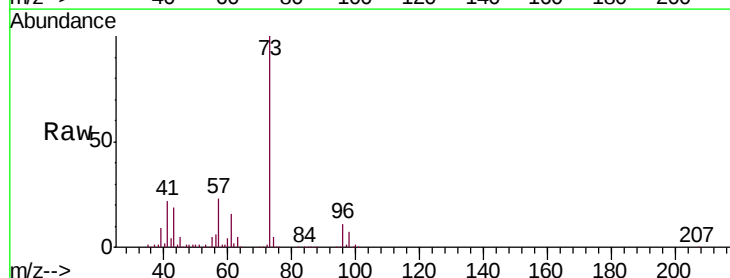
Tgt Ion: 73 Resp: 1352968

Ion Ratio Lower Upper

73 100

43 19.2 17.0 25.4

57 23.0 19.5 29.3

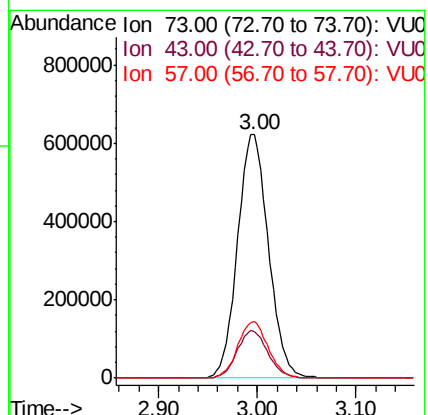
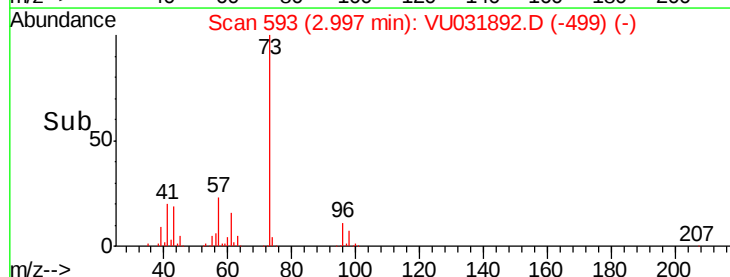


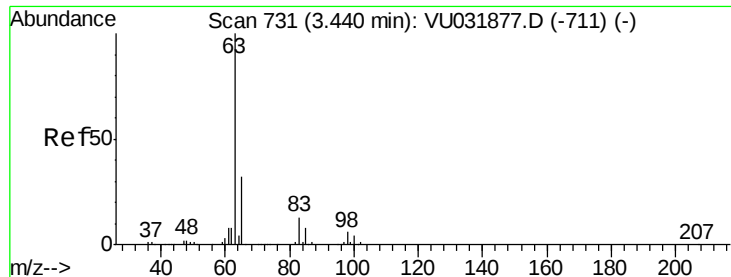
Abundance Ion 73.00 (72.70 to 73.70): VU031877.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU031877.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU031877.D (-575) (-)

Time-->

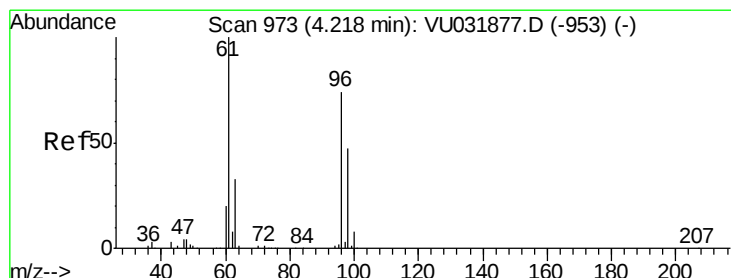
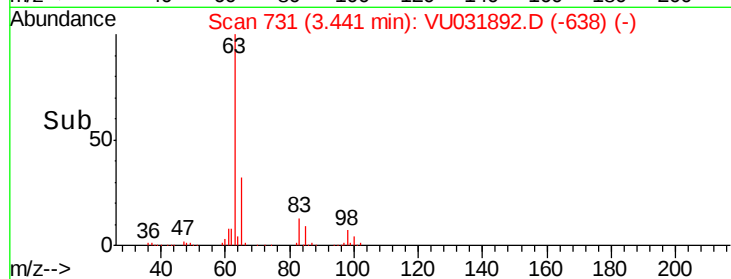
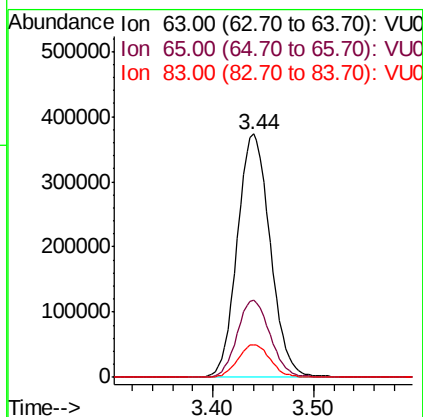
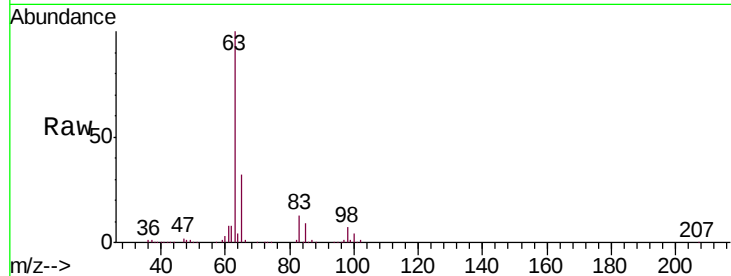




#19
 1,1-Dichloroethane
 Concen: 43.752 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

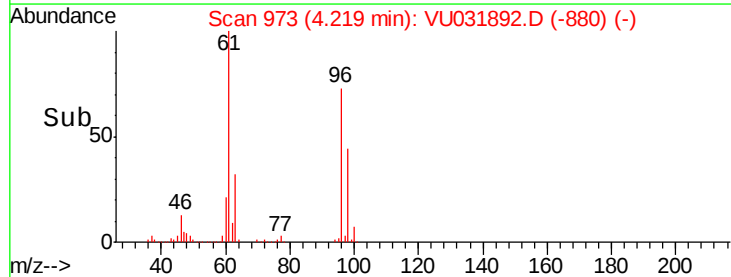
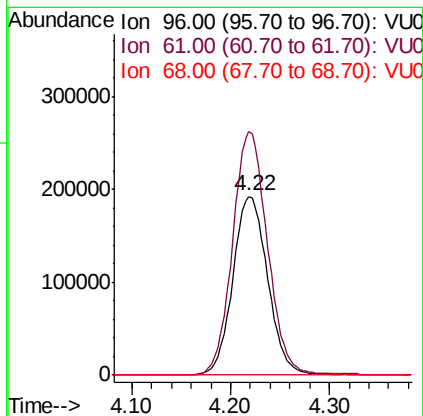
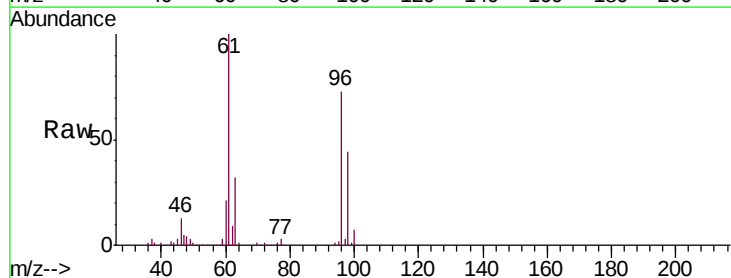
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

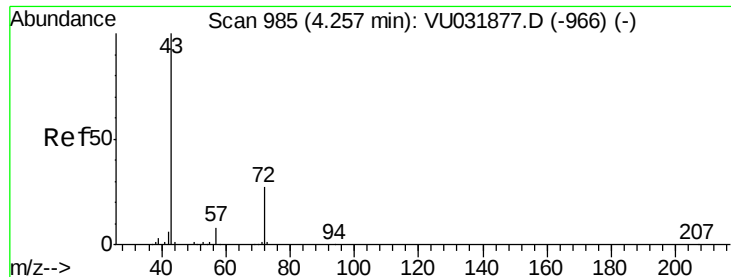
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.6	22.0	40.8
83	13.3	8.8	16.4



#20
 cis-1,2-Dichloroethene
 Concen: 48.000 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

Tgt Ion	Ratio	Lower	Upper
96	100		
61	136.5	99.5	184.7
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 76.970 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

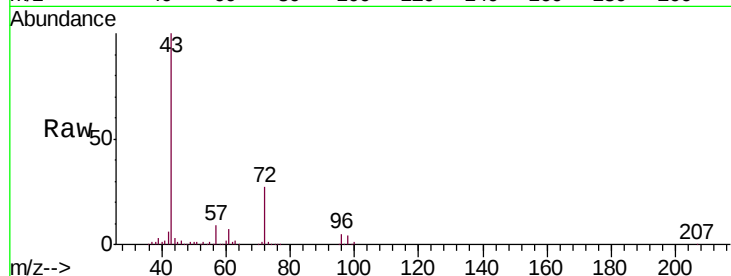
VSTD05040

Tgt Ion: 43 Resp: 821503

Ion Ratio Lower Upper

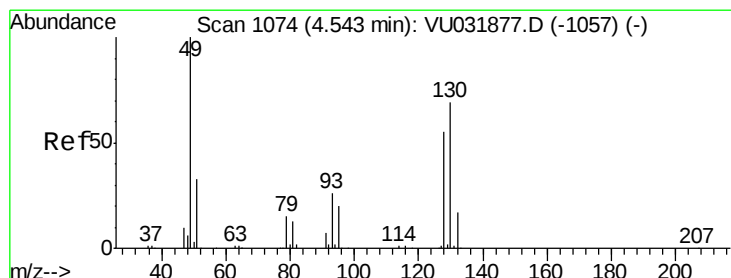
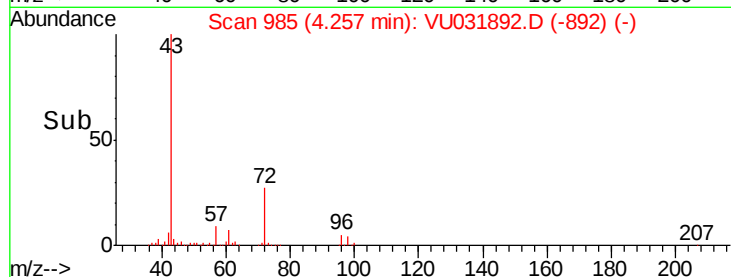
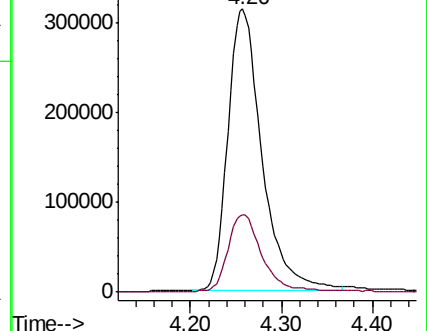
43 100

72 27.9 11.4 34.2



Abundance Ion 43.00 (42.70 to 43.70): VU031877.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU031877.D (-966) (-)



#23

Bromochloromethane

Concen: 46.708 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Tgt Ion: 128 Resp: 223230

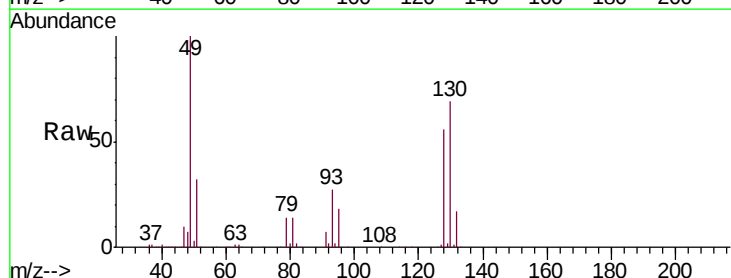
Ion Ratio Lower Upper

128 100

49 179.3 152.6 283.4

130 123.0 93.7 173.9

51 57.0 54.2 81.4

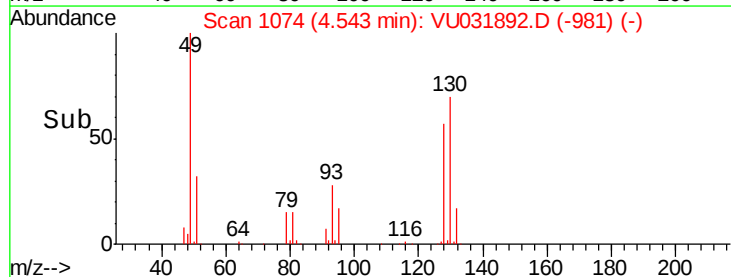
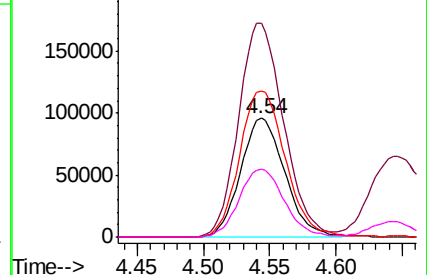


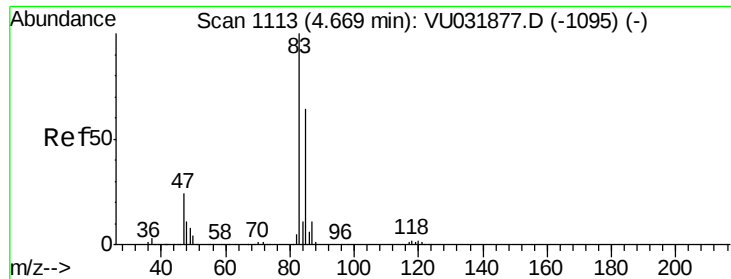
Abundance Ion 128.00 (127.70 to 128.70): VU031877.D (-1057) (-)

Ion 49.00 (48.70 to 49.70): VU031877.D (-1057) (-)

Ion 130.00 (129.70 to 130.70): VU031877.D (-1057) (-)

Ion 51.00 (50.70 to 51.70): VU031877.D (-1057) (-)





#25

Chloroform

Concen: 44.353 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

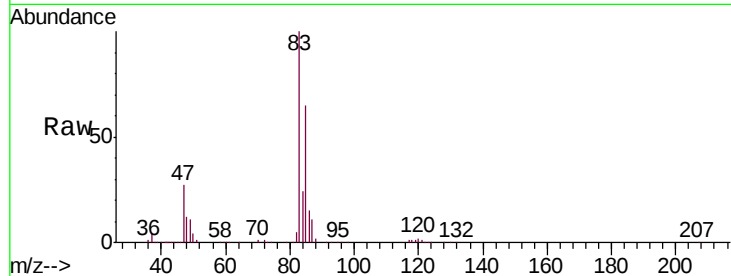
VSTD05040

Tgt Ion: 83 Resp: 818995

Ion Ratio Lower Upper

83 100

85 65.2 44.9 83.3



Abundance Ion 83.00 (82.70 to 83.70): VU031877.D (-1095) (-)

Ion 85.00 (84.70 to 85.70): VU031877.D (-1095) (-)

4.67

300000

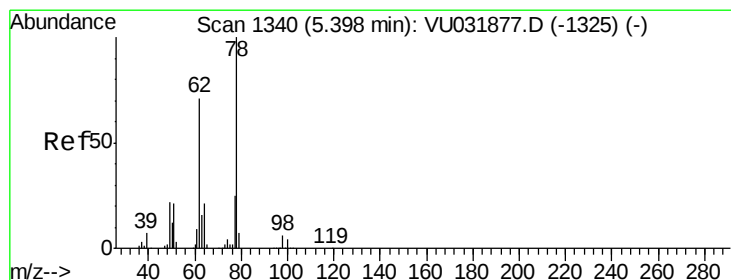
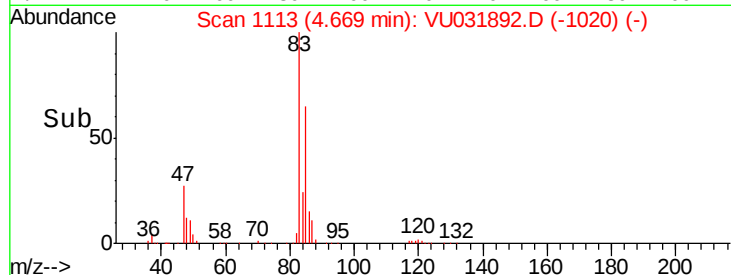
200000

100000

0

4.60 4.70 4.80

Time-->



#27

1,2-Dichloroethane

Concen: 42.896 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VU031892.D

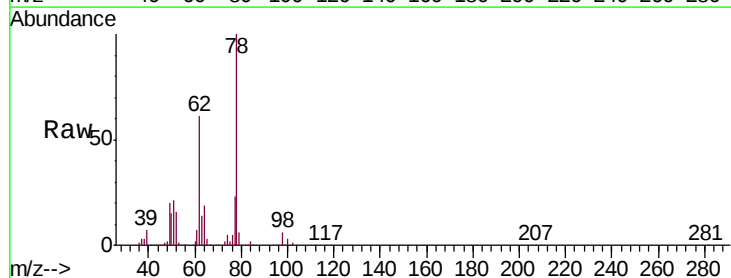
Acq: 10 May 2019 16:37

Tgt Ion: 62 Resp: 643381

Ion Ratio Lower Upper

62 100

98 9.1 7.1 10.7



Abundance Ion 62.00 (61.70 to 62.70): VU031877.D (-1325) (-)

Ion 98.00 (97.70 to 98.70): VU031877.D (-1325) (-)

5.40

300000

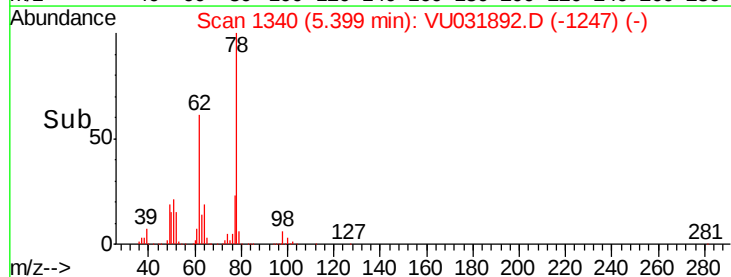
200000

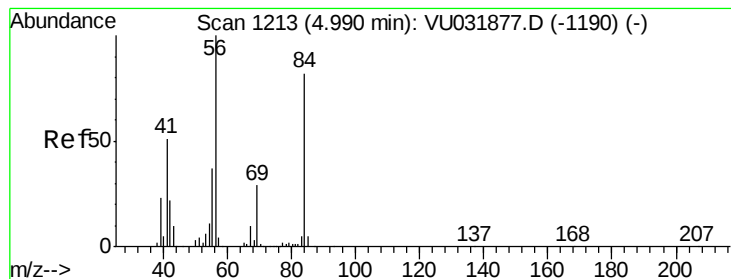
100000

0

5.30 5.35 5.40 5.45 5.50

Time-->





#29

Cyclohexane

Concen: 43.045 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

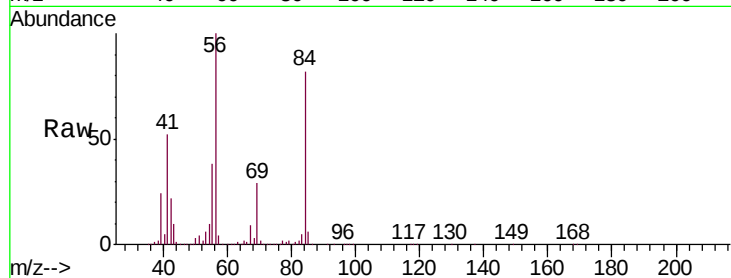
Tgt Ion: 56 Resp: 759337

Ion Ratio Lower Upper

56 100

69 29.7 22.3 33.5

84 79.1 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VU031877.D (-1190) (-)

Ion 69.00 (68.70 to 69.70): VU031877.D (-1190) (-)

Ion 84.00 (83.70 to 84.70): VU031877.D (-1190) (-)

4.99

300000

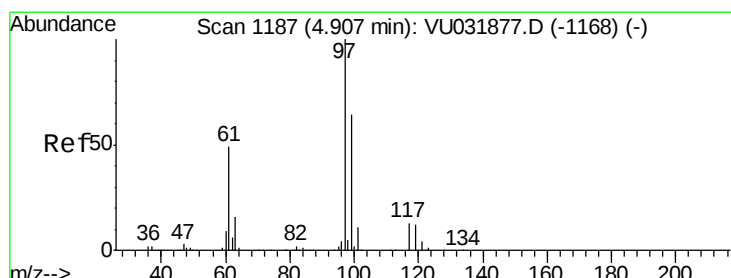
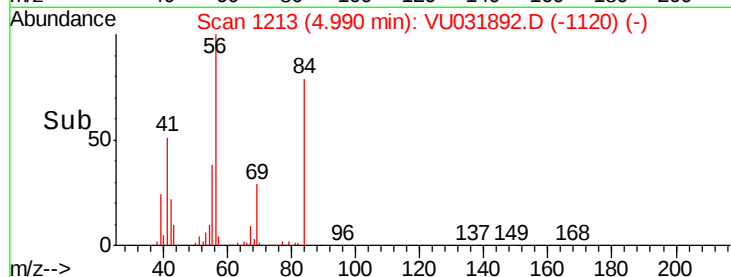
200000

100000

0

4.90 5.00 5.10

Time-->



#30

1,1,1-Trichloroethane

Concen: 40.949 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

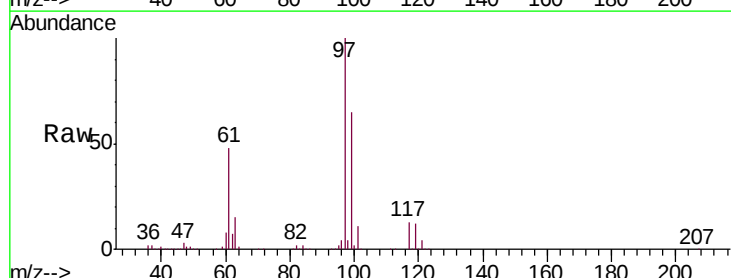
Tgt Ion: 97 Resp: 639500

Ion Ratio Lower Upper

97 100

99 65.5 52.0 78.0

61 48.0 38.7 58.1



Abundance Ion 97.00 (96.70 to 97.70): VU031877.D (-1168) (-)

Ion 99.00 (98.70 to 99.70): VU031877.D (-1168) (-)

Ion 61.05 (60.75 to 61.75): VU031877.D (-1168) (-)

4.91

300000

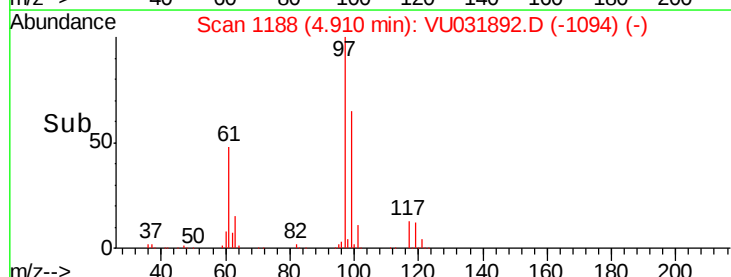
200000

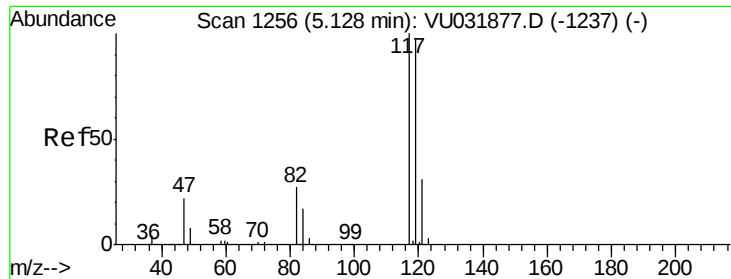
100000

0

4.80 4.85 4.90 4.95 5.00

Time-->

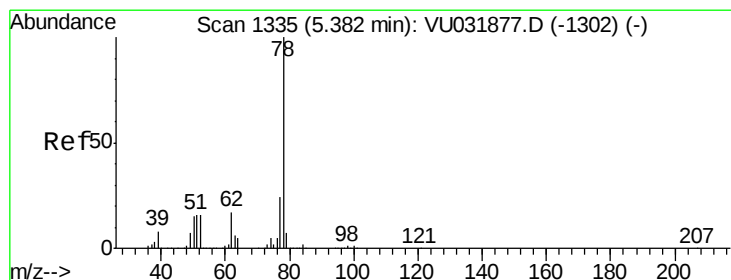
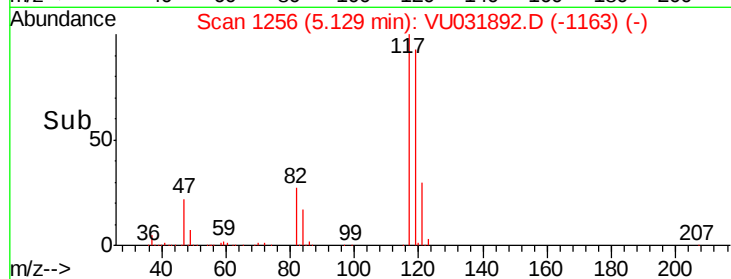
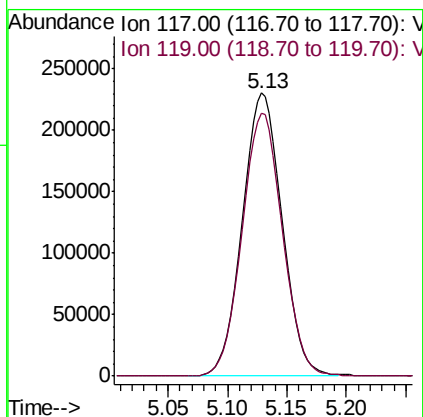
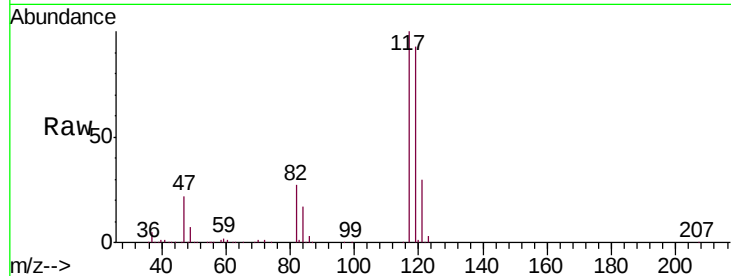




#31
Carbon tetrachloride
Concen: 39.852 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.00 min
Lab File: VU031892.D
Acq: 10 May 2019 16:37

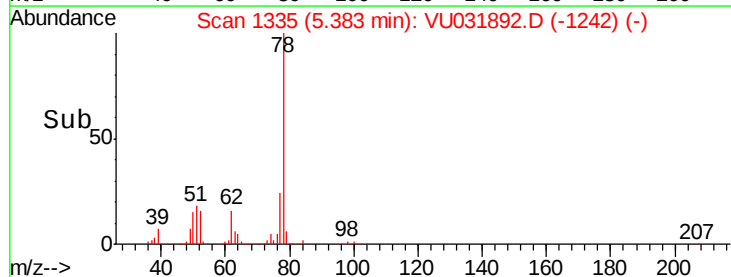
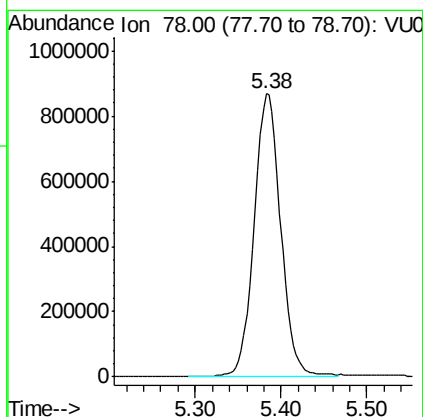
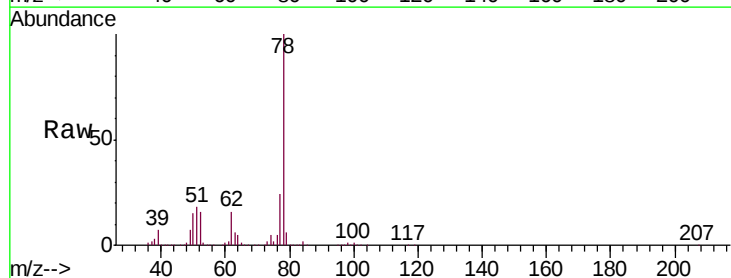
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

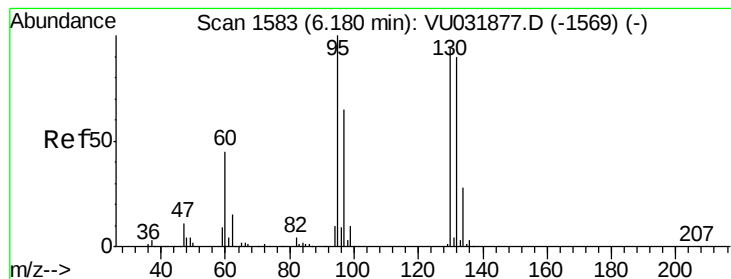
Tgt Ion:117 Resp: 531960
Ion Ratio Lower Upper
117 100
119 94.7 76.6 114.8



#33
Benzene
Concen: 45.812 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU031892.D
Acq: 10 May 2019 16:37

Tgt Ion: 78 Resp: 1877369





#34

Trichloroethene

Concen: 45.330 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

Tgt Ion: 95 Resp: 450296

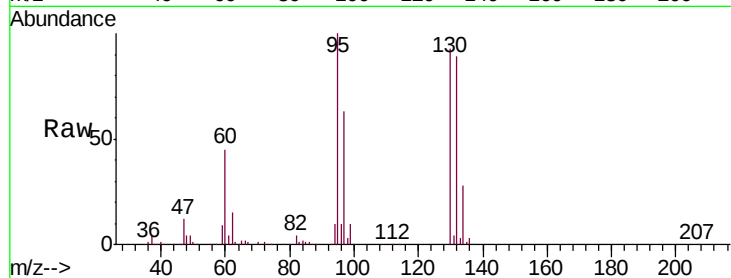
Ion Ratio Lower Upper

95 100

97 63.4 44.8 83.2

132 89.3 63.1 117.1

130 93.1 66.5 123.5

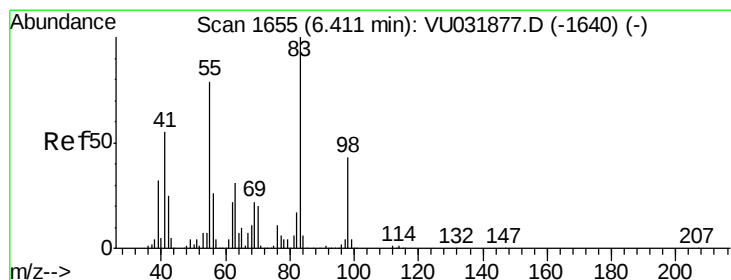
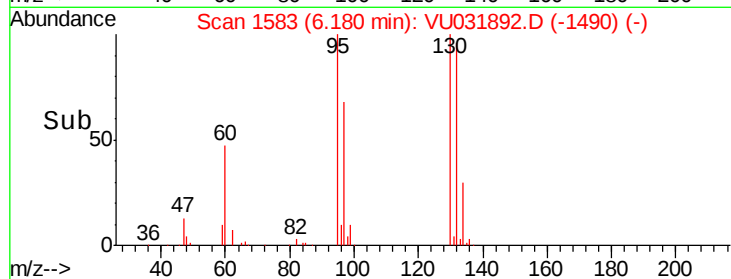
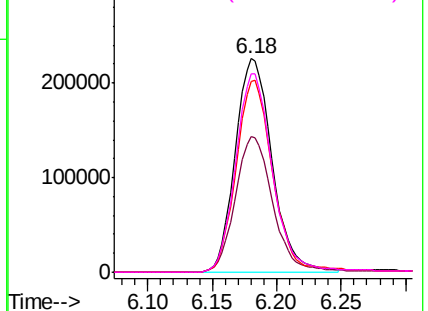


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 48.653 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

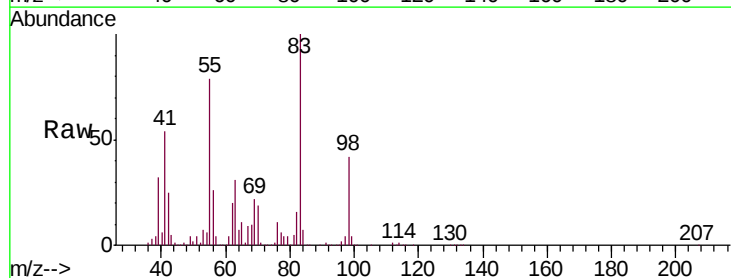
Tgt Ion: 83 Resp: 724306

Ion Ratio Lower Upper

83 100

55 82.9 73.0 109.4

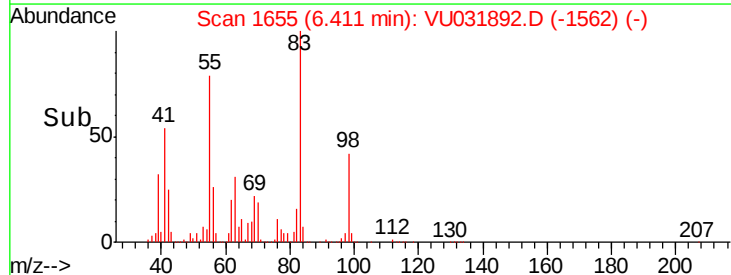
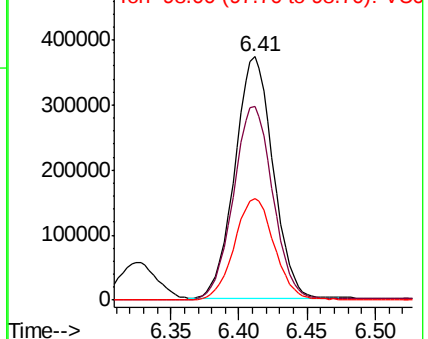
98 43.6 35.3 52.9

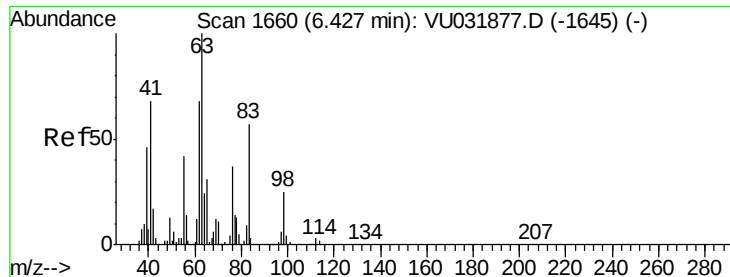


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

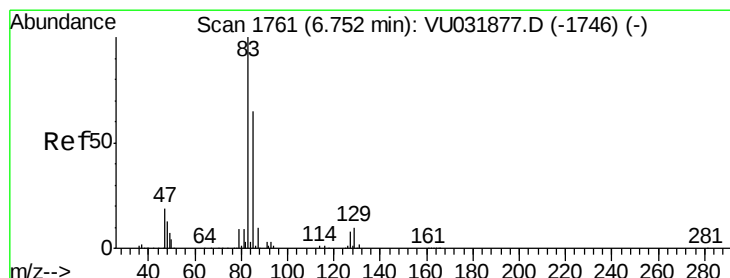
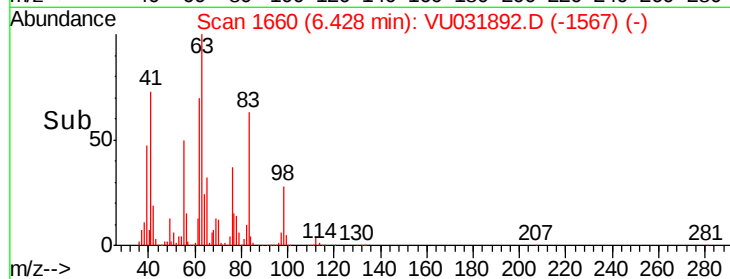
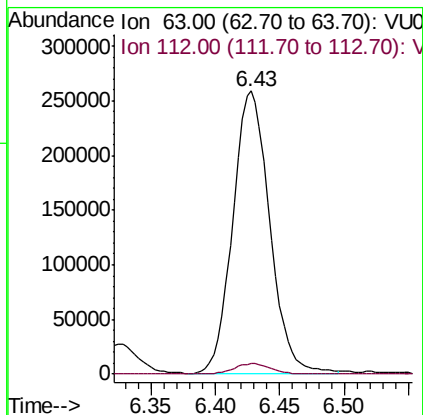
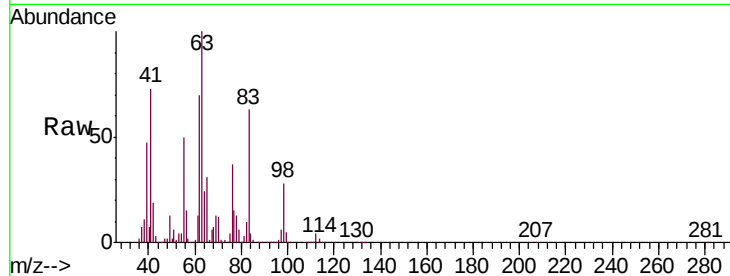




#37
 1,2-Dichloropropane
 Concen: 44.053 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

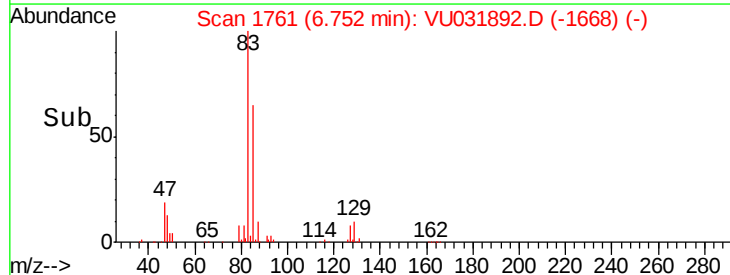
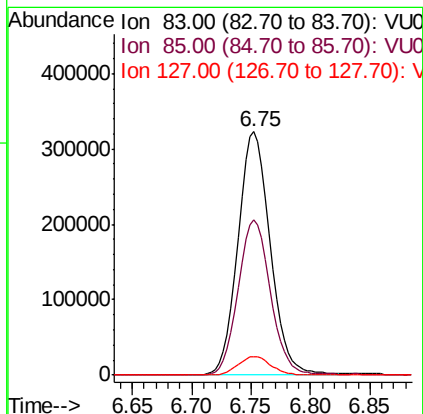
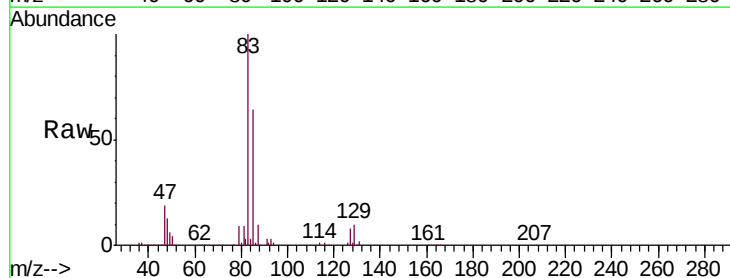
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

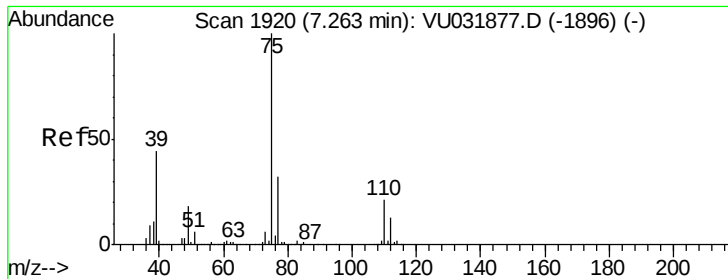
Tgt Ion: 63 Resp: 512502
 Ion Ratio Lower Upper
 63 100
 112 3.8 2.7 4.1



#38
 Bromodichloromethane
 Concen: 42.944 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

Tgt Ion: 83 Resp: 605763
 Ion Ratio Lower Upper
 83 100
 85 63.7 43.7 81.1
 127 7.6 6.7 10.1

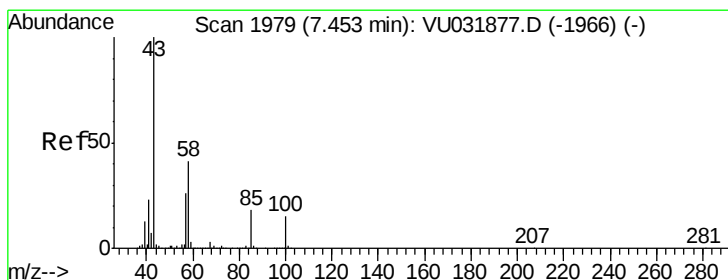
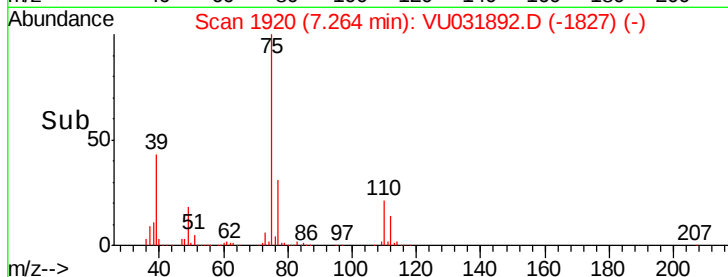
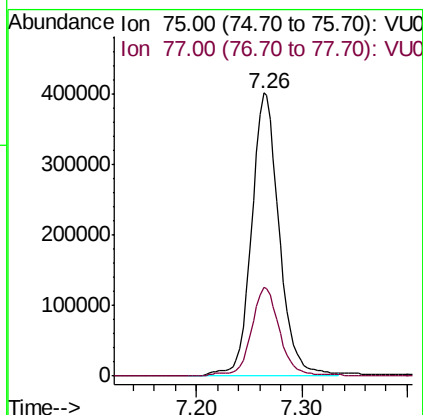
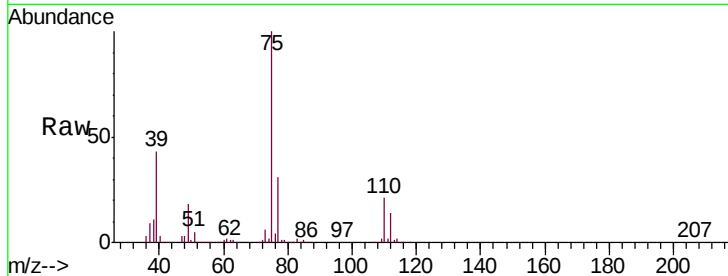




#39
 cis-1,3-Dichloropropene
 Concen: 47.867 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

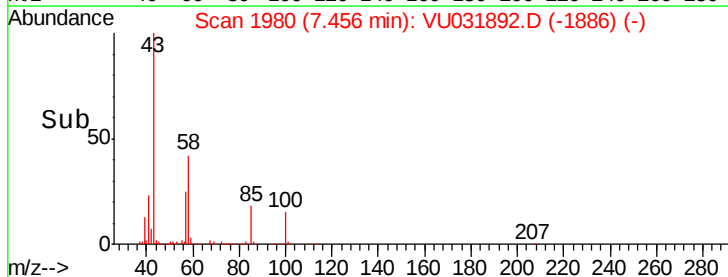
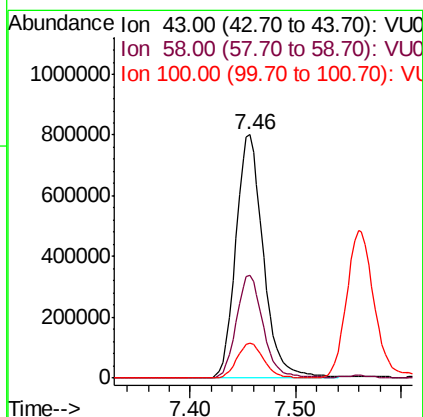
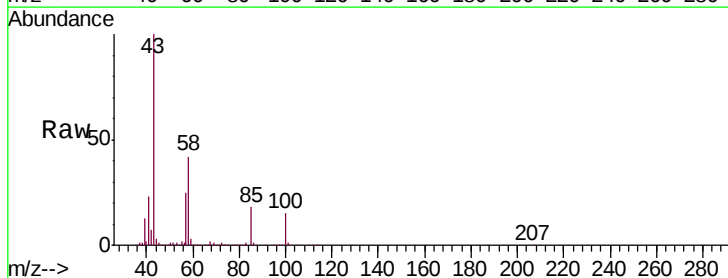
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

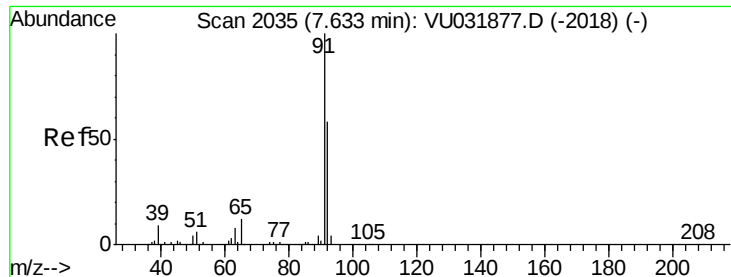
Tgt Ion: 75 Resp: 735841
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 80.691 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

Tgt Ion: 43 Resp: 1444304
 Ion Ratio Lower Upper
 43 100
 58 41.3 30.1 45.1
 100 14.2 9.6 14.4





#42

Toluene

Concen: 49.079 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

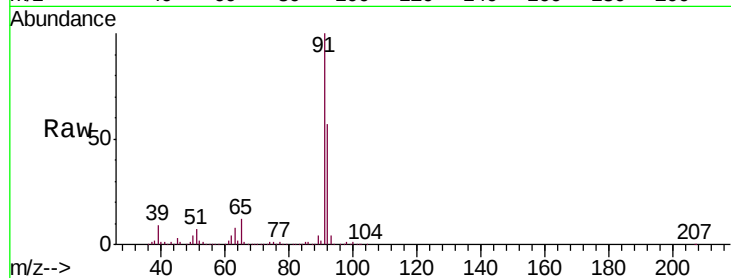
VSTD05040

Tgt Ion: 91 Resp: 2003472

Ion Ratio Lower Upper

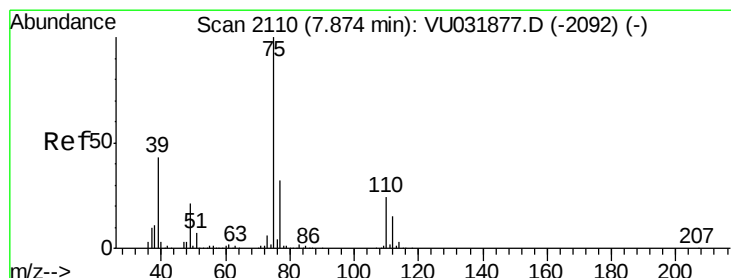
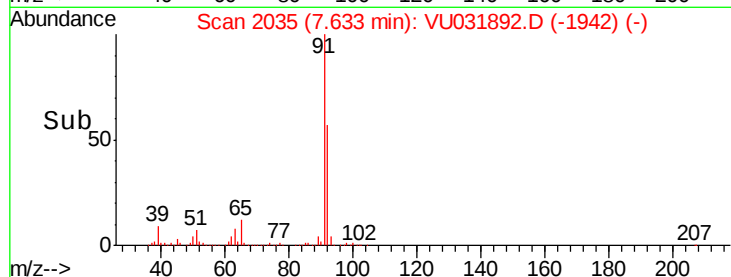
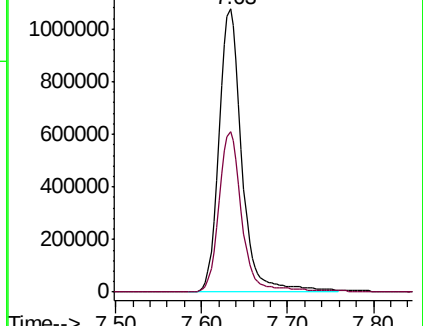
91 100

92 56.6 39.0 72.4



Abundance Ion 91.00 (90.70 to 91.70): VU031877.D (-2018) (-)

Ion 92.00 (91.70 to 92.70): VU031892.D (-1942) (-)



#44

trans-1,3-Dichloropropene

Concen: 46.034 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU031892.D

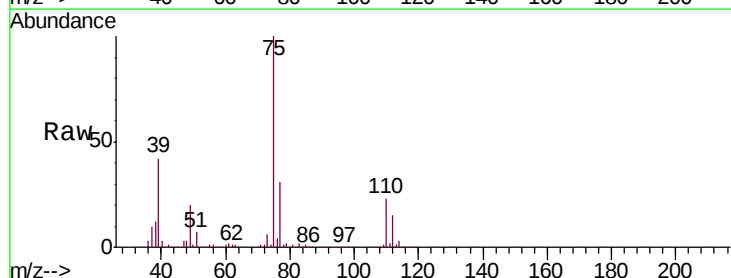
Acq: 10 May 2019 16:37

Tgt Ion: 75 Resp: 641854

Ion Ratio Lower Upper

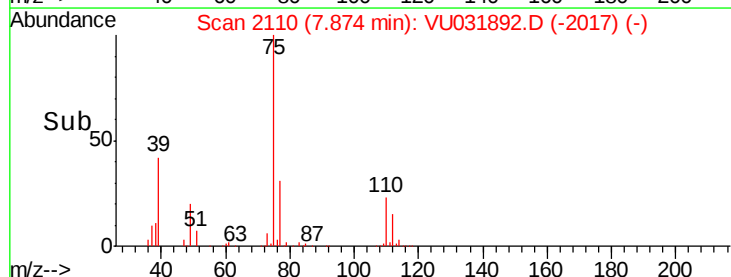
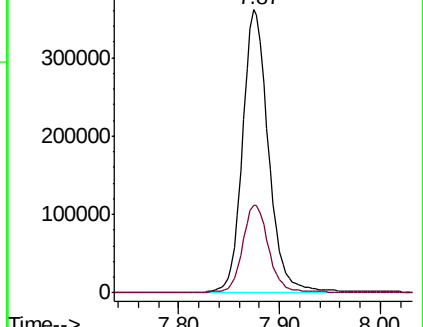
75 100

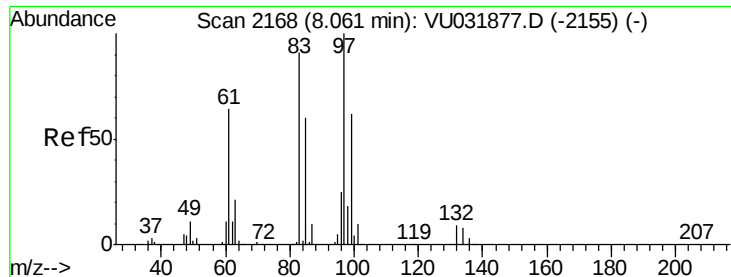
77 31.0 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU031877.D (-2092) (-)

Ion 77.00 (76.70 to 77.70): VU031892.D (-2017) (-)

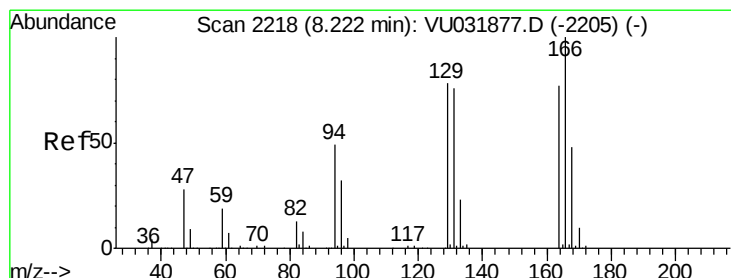
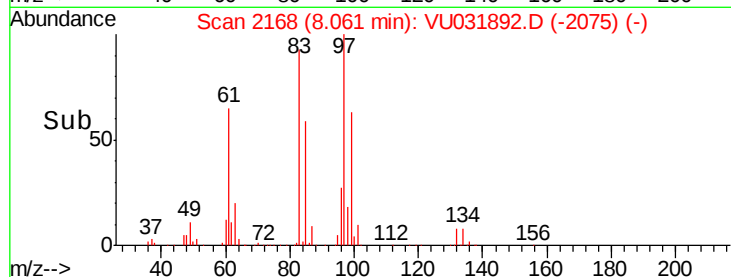
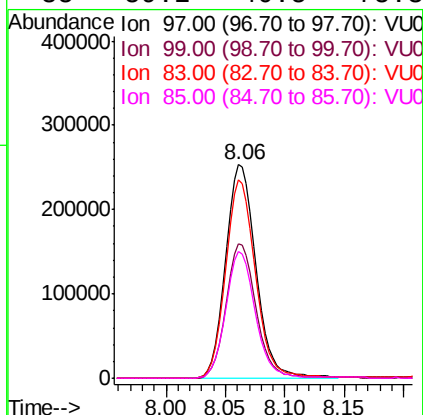
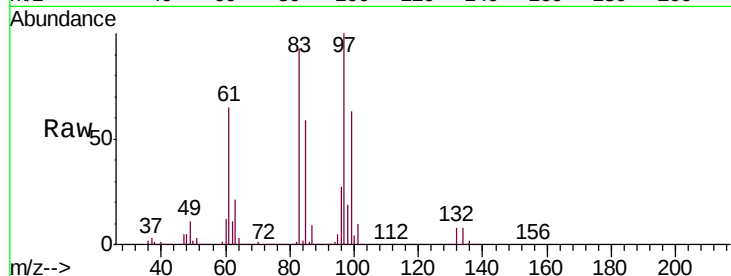




#45
 1,1,2-Trichloroethane
 Concen: 46.886 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

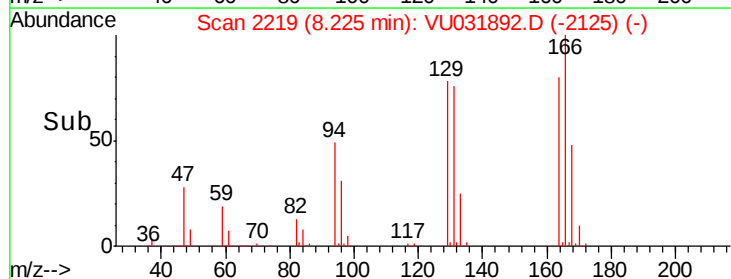
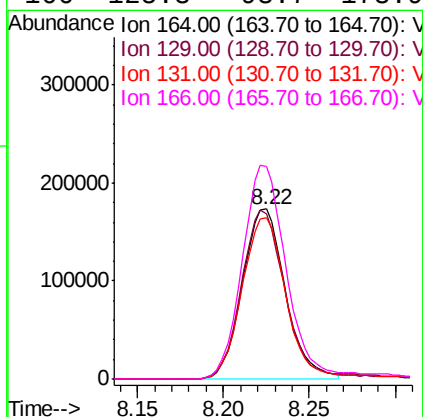
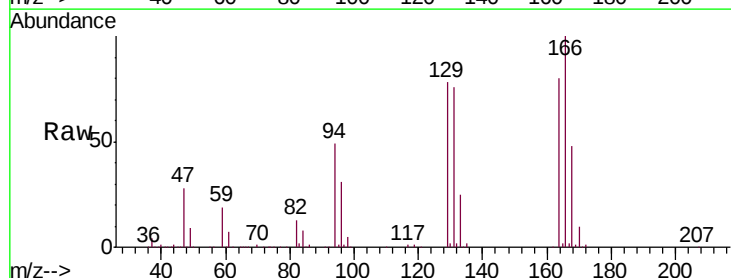
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

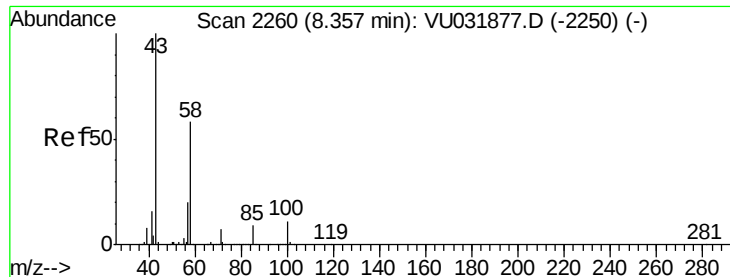
Tgt Ion:	97	Resp:	449678
Ion	Ratio	Lower	Upper
97	100		
99	62.8	43.0	80.0
83	92.8	63.6	118.2
85	59.2	40.5	75.3



#46
 Tetrachloroethene
 Concen: 44.435 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

Tgt Ion:	164	Resp:	300919
Ion	Ratio	Lower	Upper
164	100		
129	97.3	71.5	132.9
131	94.8	69.0	128.2
166	125.3	93.7	173.9

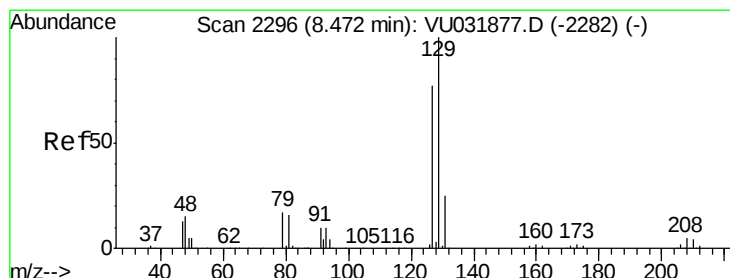
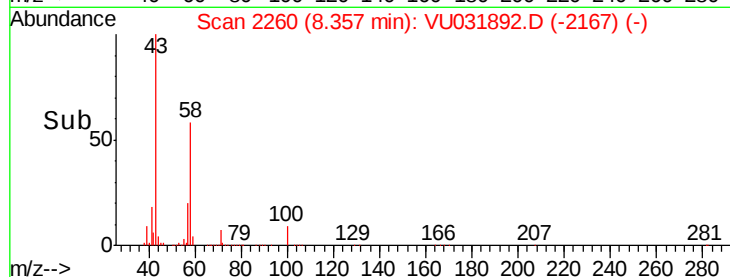
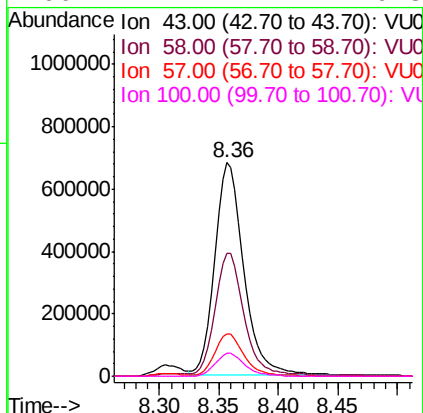
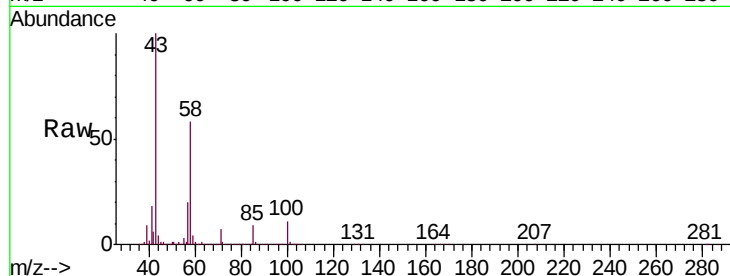




#48
2-Hexanone
Concen: 79.474 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU031892.D
Acq: 10 May 2019 16:37

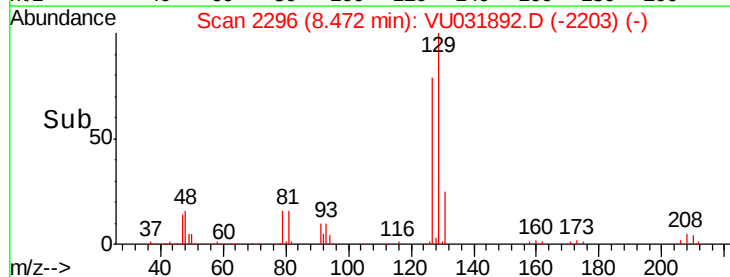
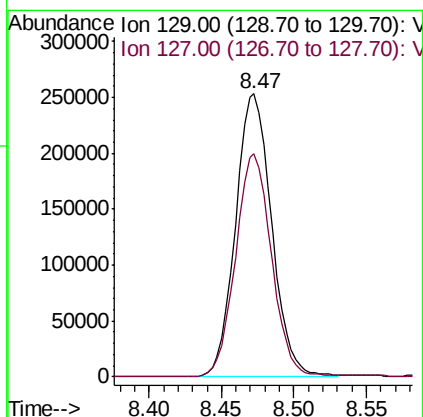
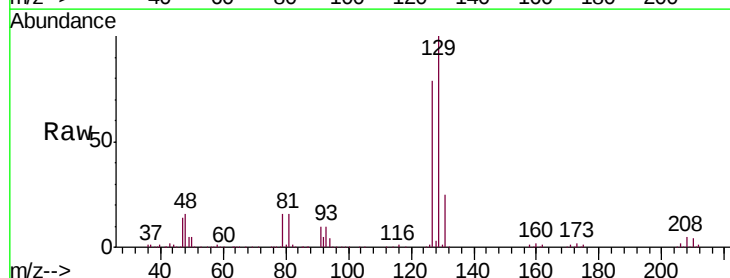
Instrument :
MSVOA_U
ClientSampleId :
VSTD05040

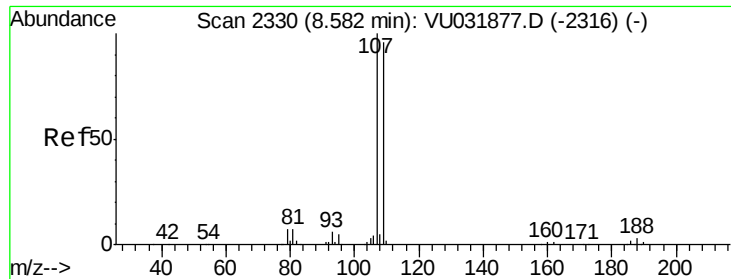
Tgt Ion: 43 Resp: 1150511
Ion Ratio Lower Upper
43 100
58 58.2 42.1 63.1
57 20.4 14.6 22.0
100 11.1 7.2 10.8#



#49
Dibromochloromethane
Concen: 44.063 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031892.D
Acq: 10 May 2019 16:37

Tgt Ion: 129 Resp: 439716
Ion Ratio Lower Upper
129 100
127 78.7 54.0 100.2

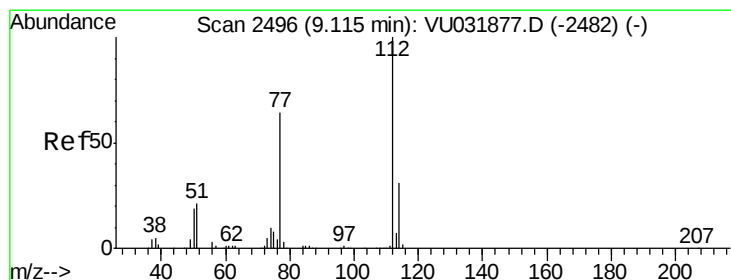
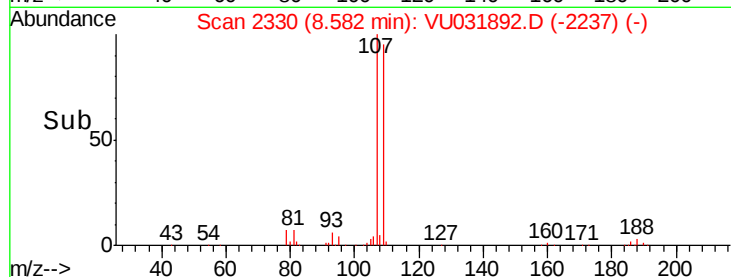
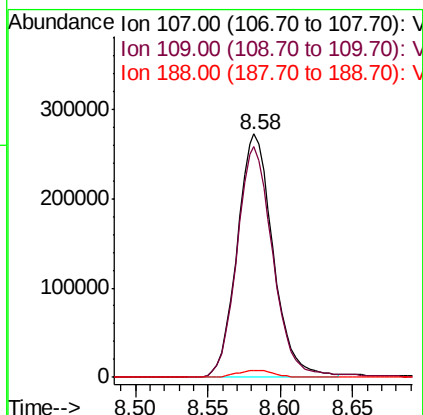
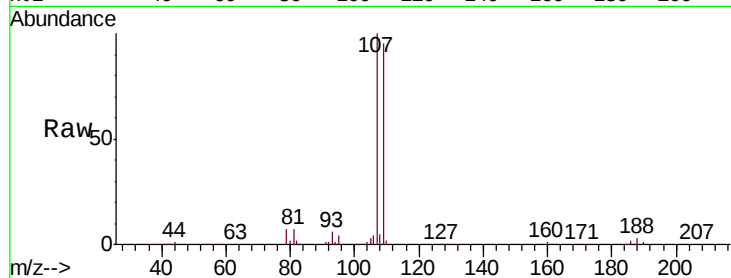




#50
 1,2-Dibromoethane
 Concen: 46.174 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

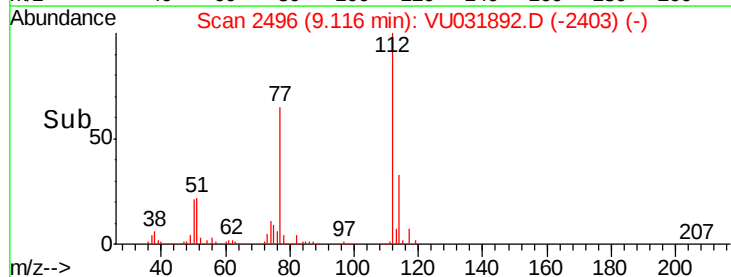
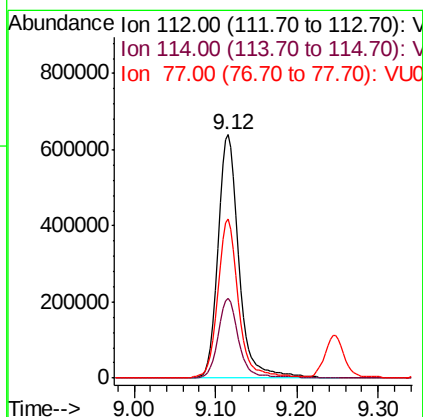
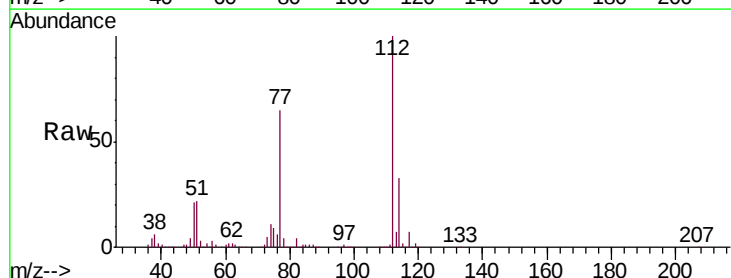
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

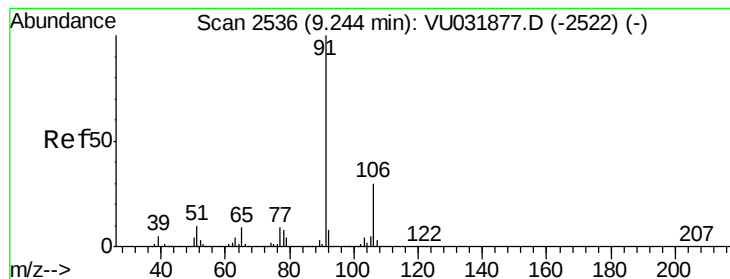
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.6	64.9	120.5
188	2.9	2.4	3.6



#51
 Chlorobenzene
 Concen: 48.318 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.0	23.3	43.3
77	65.2	53.0	79.4





#52

Ethylbenzene

Concen: 49.828 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

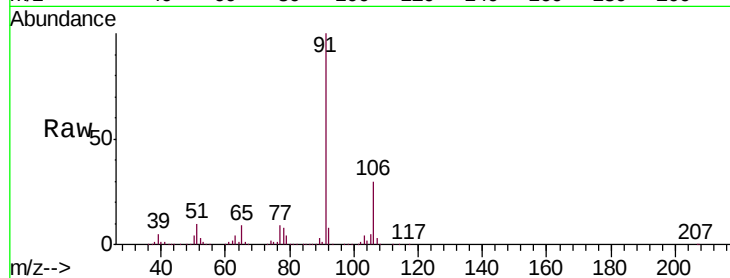
VSTD05040

Tgt Ion: 91 Resp: 2109953

Ion Ratio Lower Upper

91 100

106 30.0 20.4 37.8



Abundance Ion 91.00 (90.70 to 91.70): VU031877.D (-2522) (-)

Ion 106.00 (105.70 to 106.70): VU031892.D (-2443) (-)

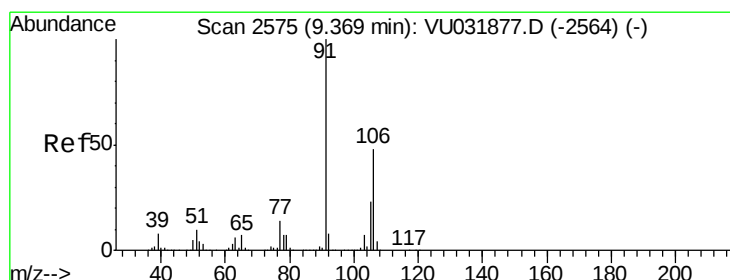
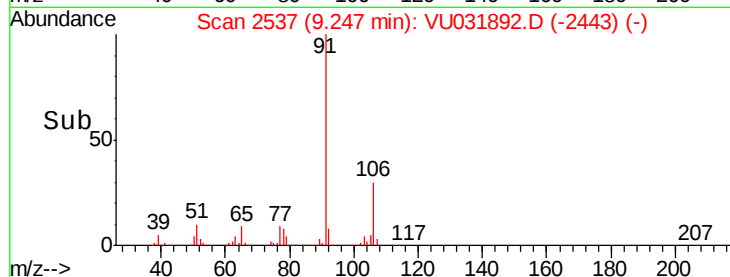
9.25

1000000

500000

0

Time-->



#53

m,p-Xylene

Concen: 51.131 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031892.D

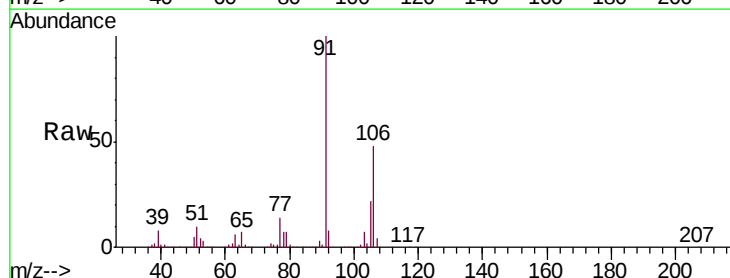
Acq: 10 May 2019 16:37

Tgt Ion: 106 Resp: 754360

Ion Ratio Lower Upper

106 100

91 207.4 152.2 282.6



Abundance Ion 106.00 (105.70 to 106.70): VU031892.D (-2482) (-)

Ion 91.00 (90.70 to 91.70): VU031877.D (-2564) (-)

9.37

1000000

800000

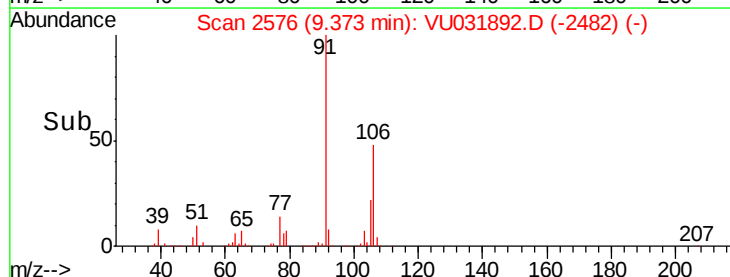
600000

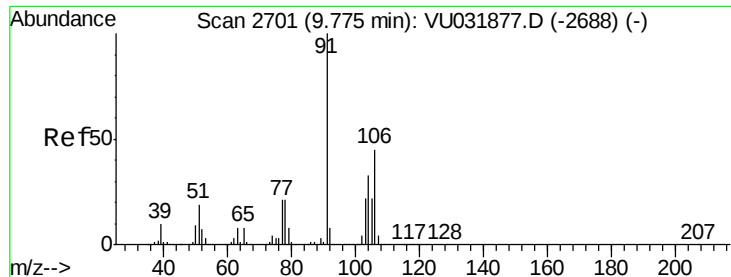
400000

200000

0

Time-->





#54

o-xylene

Concen: 52.959 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

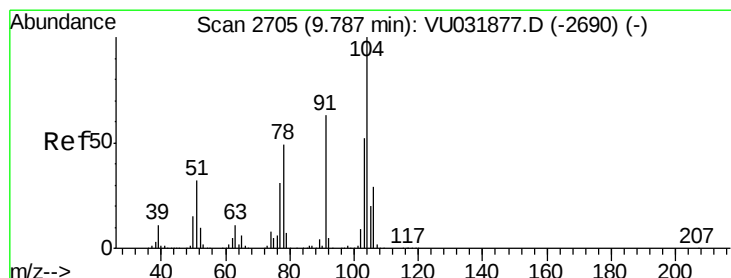
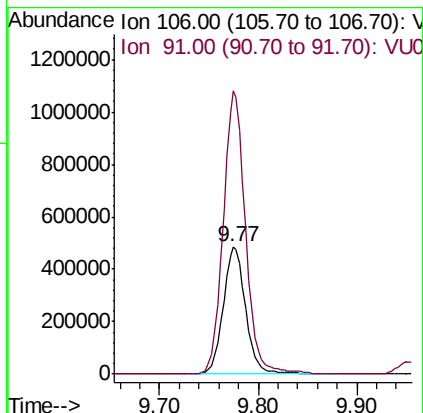
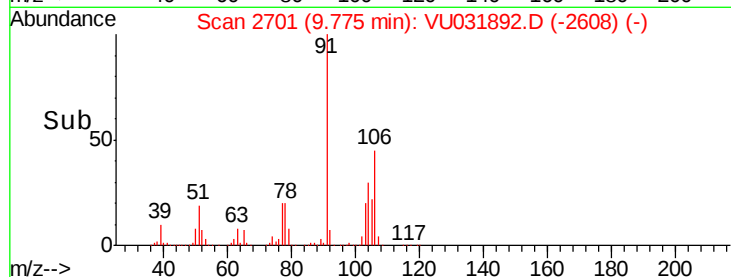
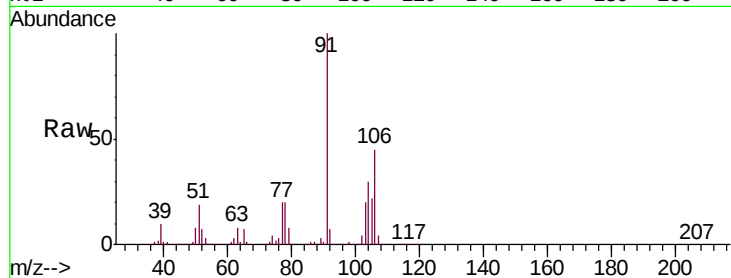
VSTD05040

Tgt Ion:106 Resp: 774604

Ion Ratio Lower Upper

106 100

91 221.7 163.2 303.2



#55

Styrene

Concen: 53.339 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU031892.D

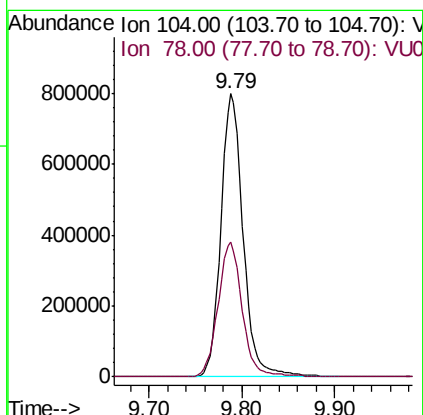
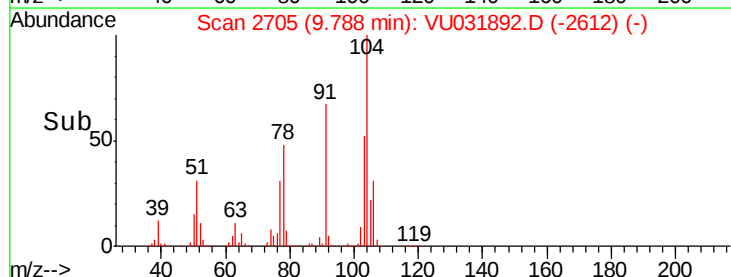
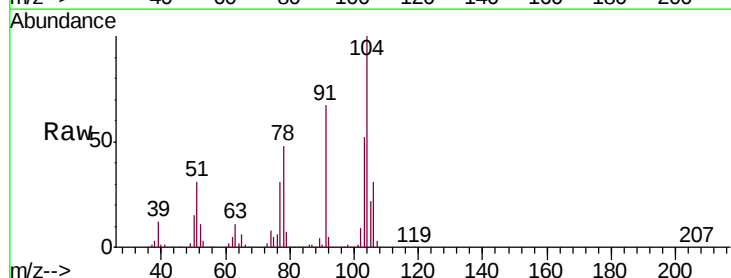
Acq: 10 May 2019 16:37

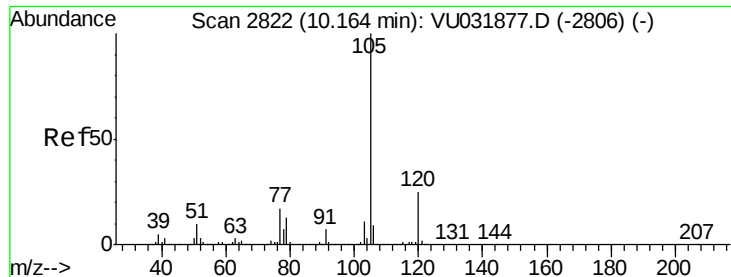
Tgt Ion:104 Resp: 1332896

Ion Ratio Lower Upper

104 100

78 47.7 35.4 65.7





#56

Isopropylbenzene

Concen: 50.930 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

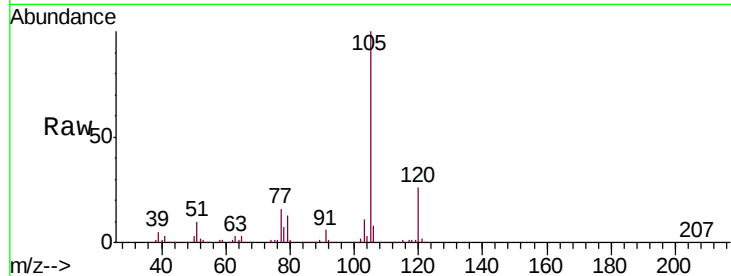
Tgt Ion:105 Resp: 1958827

Ion Ratio Lower Upper

105 100

120 25.7 20.1 30.1

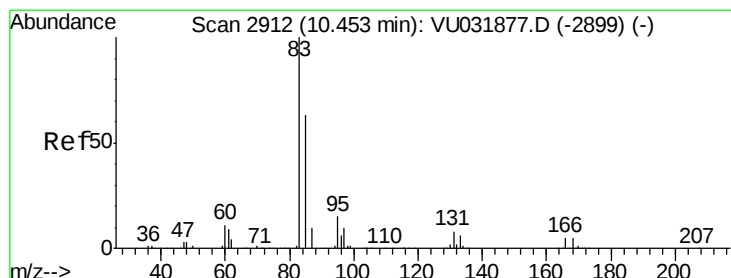
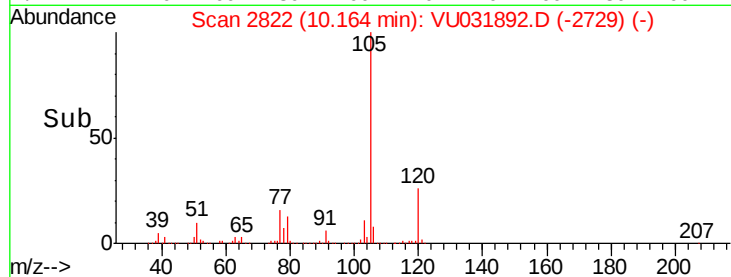
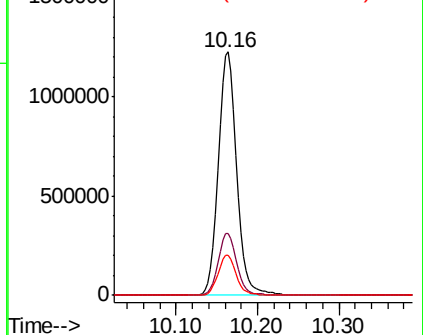
77 16.4 13.8 20.6



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: 47.066 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

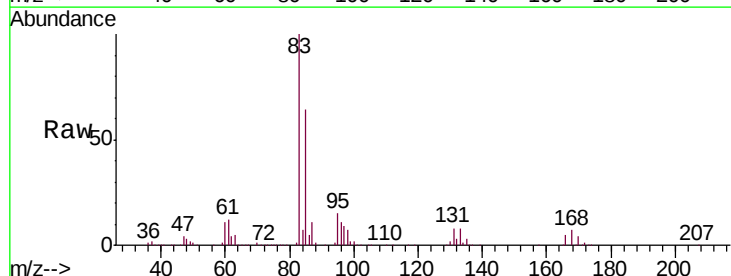
Tgt Ion: 83 Resp: 801017

Ion Ratio Lower Upper

83 100

85 64.4 46.0 85.4

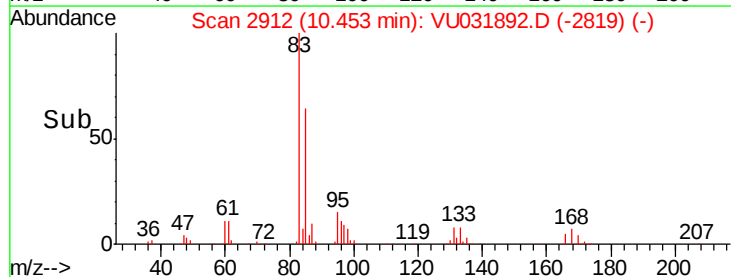
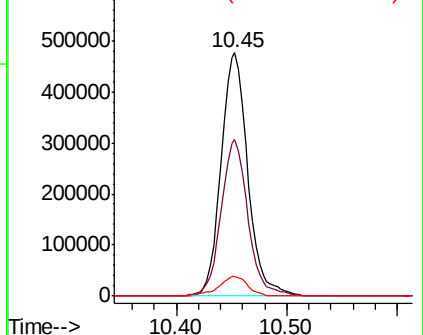
131 8.2 7.3 10.9

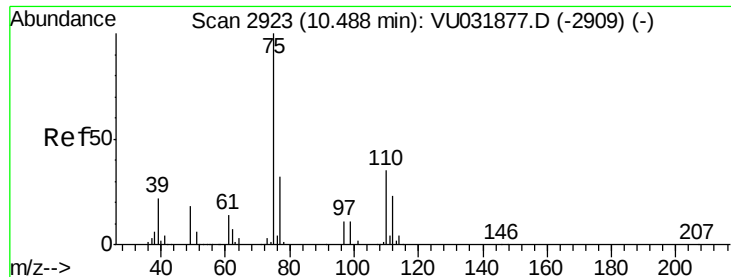


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 45.728 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

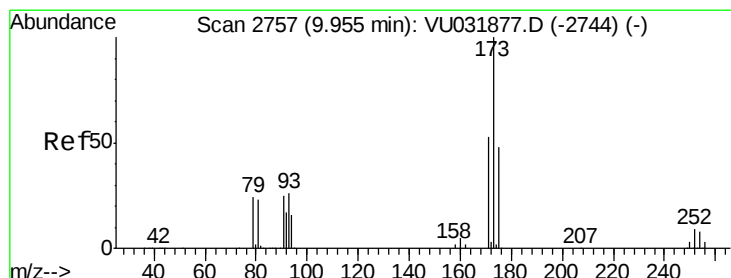
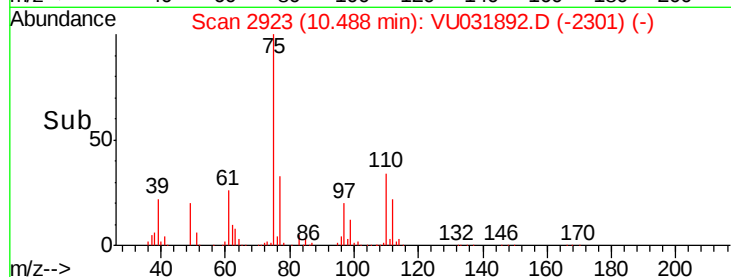
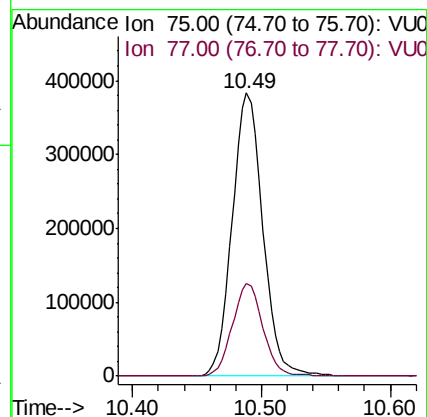
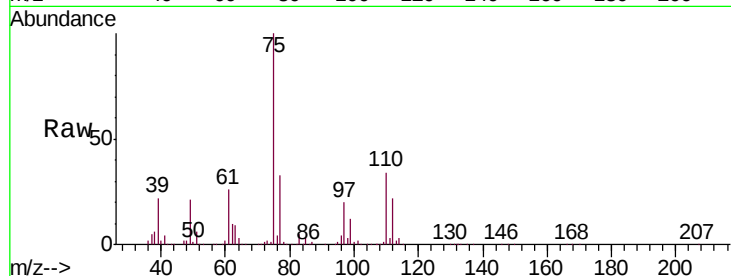
VSTD05040

Tgt Ion: 75 Resp: 630746

Ion Ratio Lower Upper

75 100

77 32.5 25.9 38.9



#61

Bromoform

Concen: 42.803 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

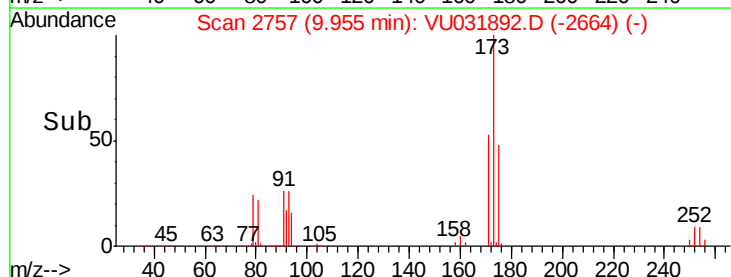
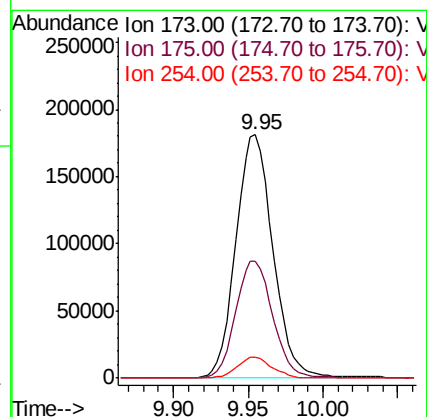
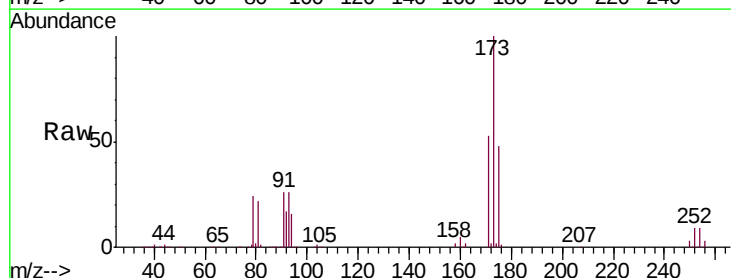
Tgt Ion: 173 Resp: 312882

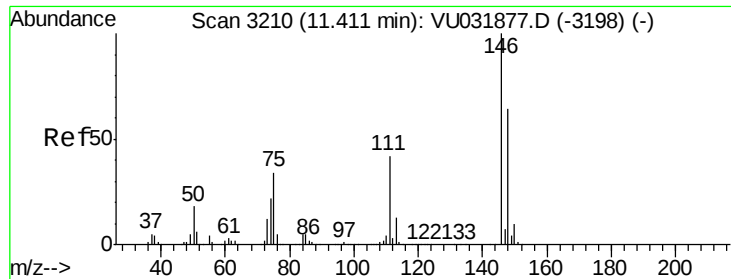
Ion Ratio Lower Upper

173 100

175 48.1 38.3 57.5

254 8.2 6.6 9.8





#62

1,3-Dichlorobenzene

Concen: 49.056 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

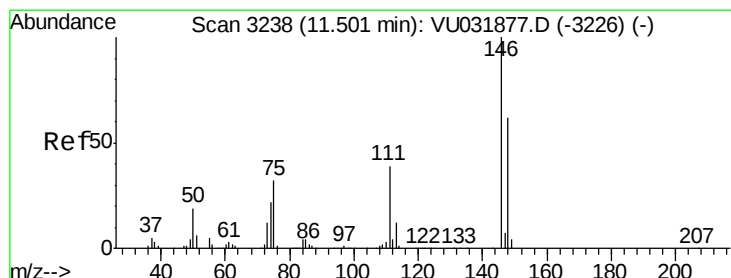
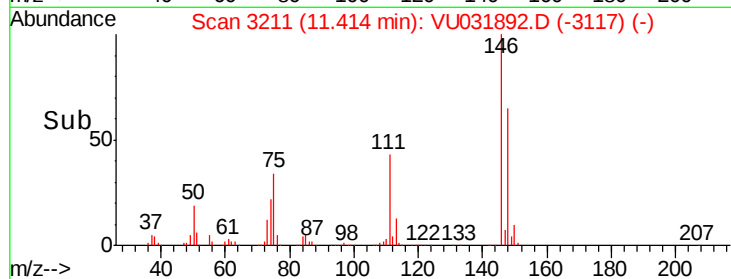
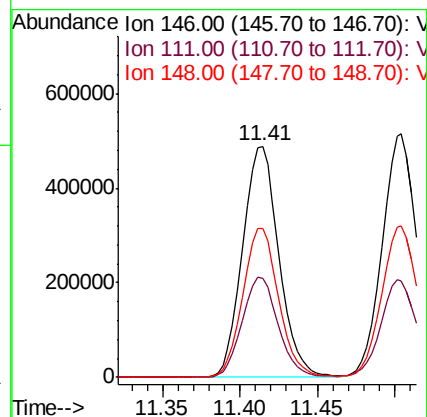
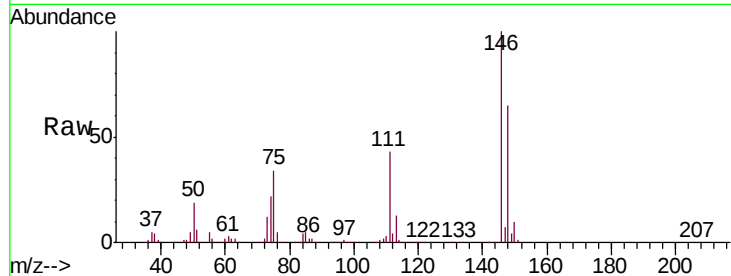
Tgt Ion:146 Resp: 800745

Ion Ratio Lower Upper

146 100

111 42.9 29.8 55.4

148 64.6 45.1 83.9



#63

1,4-Dichlorobenzene

Concen: 48.617 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

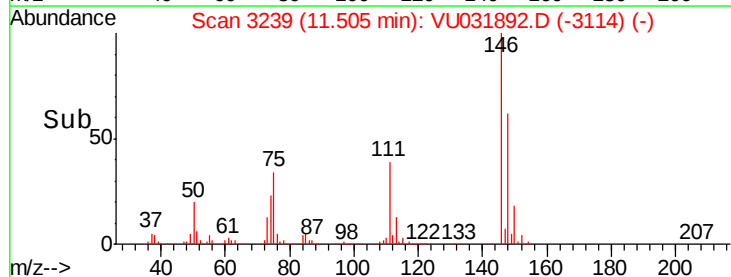
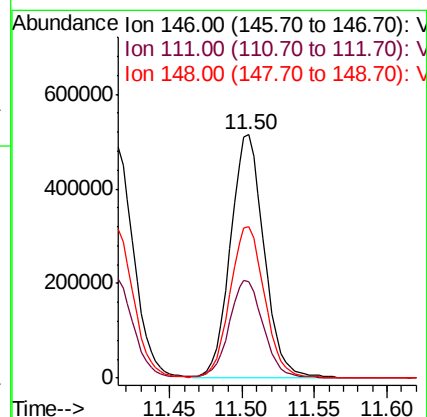
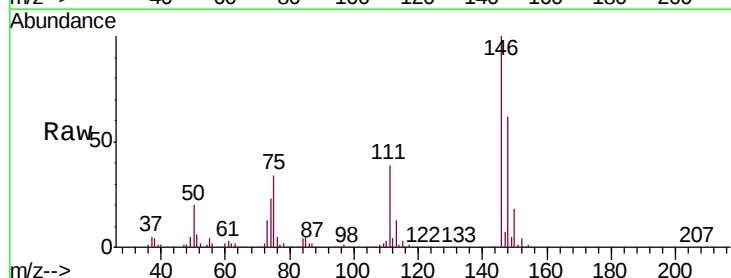
Tgt Ion:146 Resp: 821862

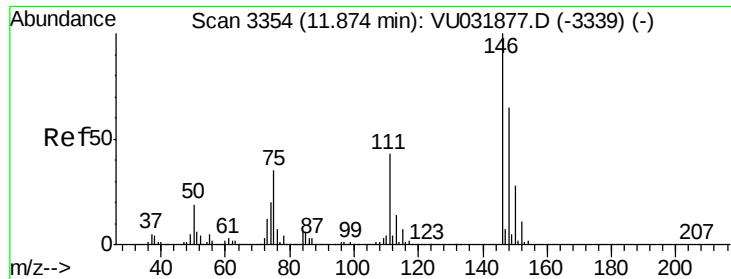
Ion Ratio Lower Upper

146 100

111 39.5 28.2 52.4

148 62.4 45.4 84.4

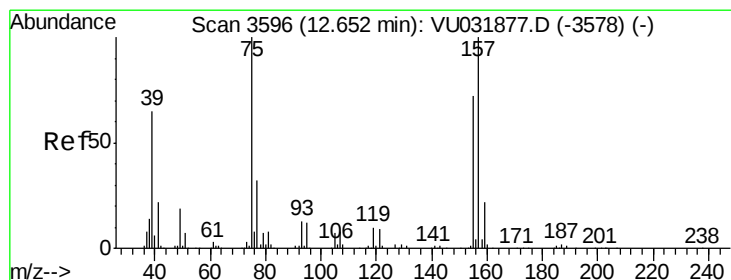
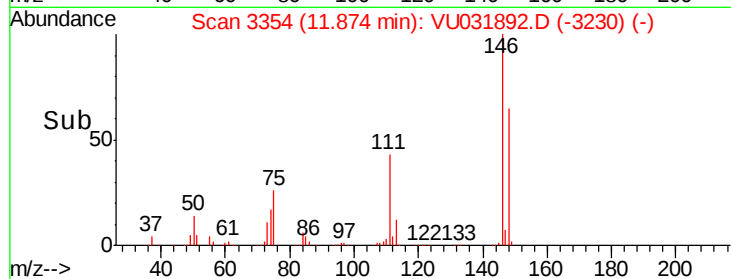
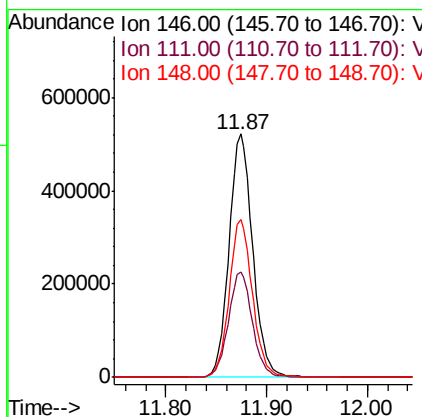
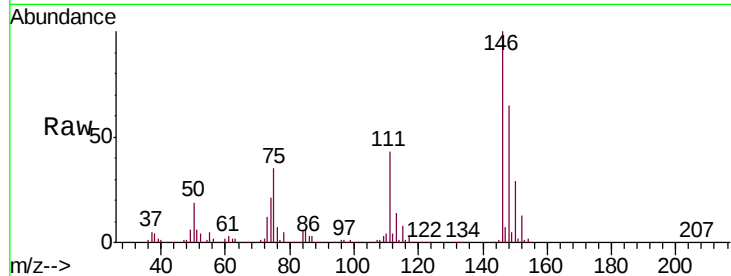




#65
 1,2-Dichlorobenzene
 Concen: 49.202 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

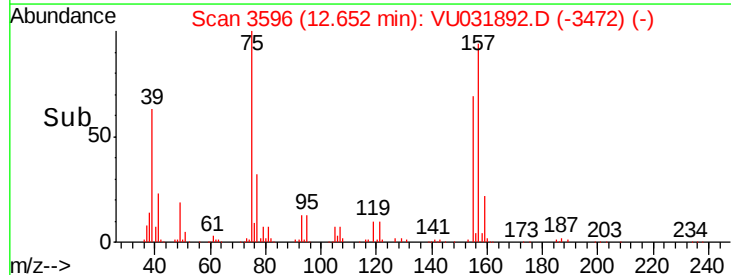
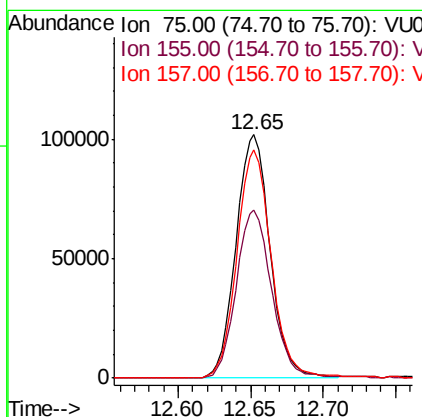
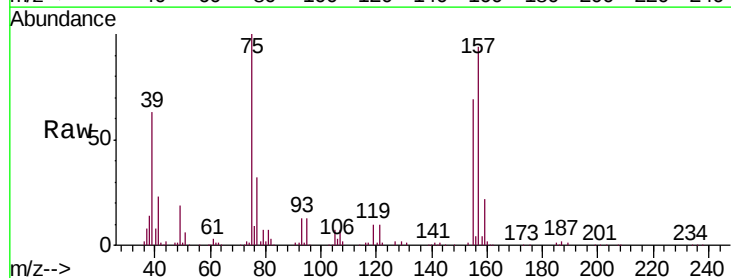
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

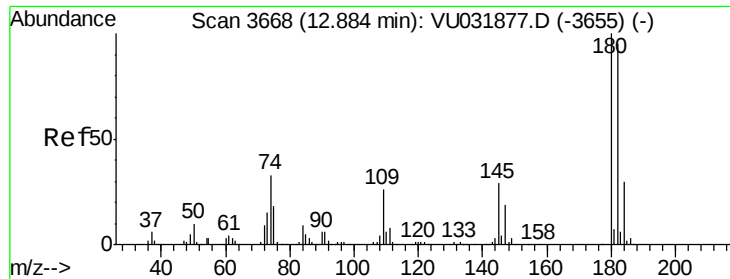
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.4	35.9	53.9
148	65.0	50.5	75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 41.440 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

Tgt Ion	Ratio	Lower	Upper
75	100		
155	68.8	54.0	81.0
157	93.6	69.1	103.7

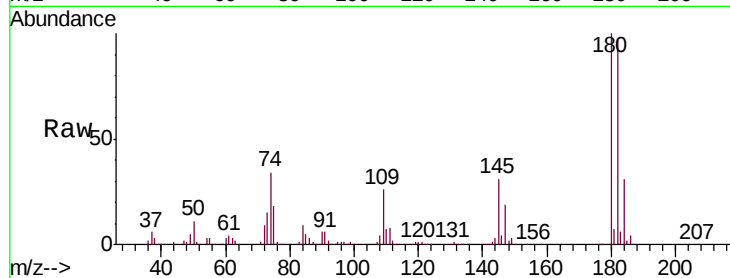




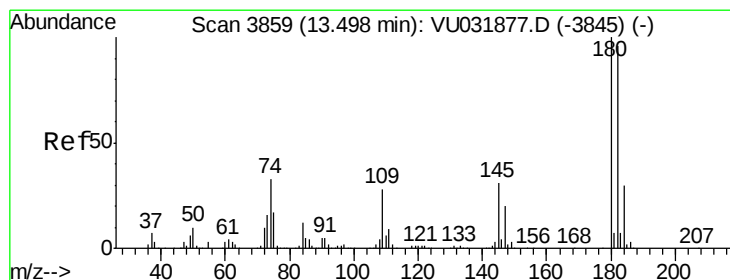
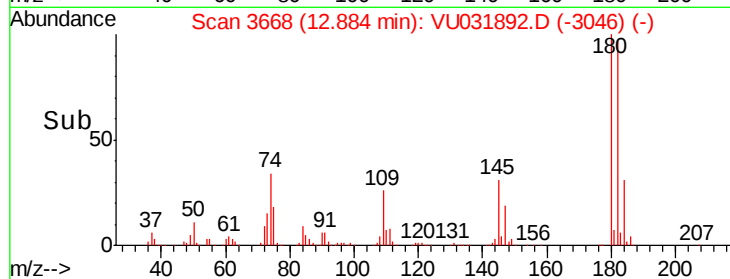
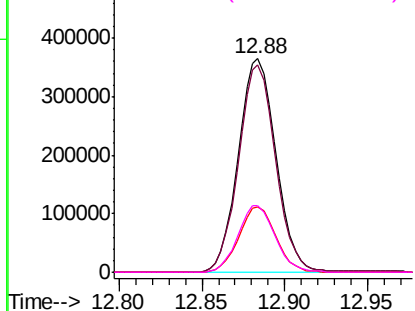
#67
 1,3,5-Trichlorobenzene
 Concen: 47.127 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05040

Tgt Ion:	180	Resp:	576162
Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.3	115.9
184	30.2	24.4	36.6
145	30.9	23.8	35.8

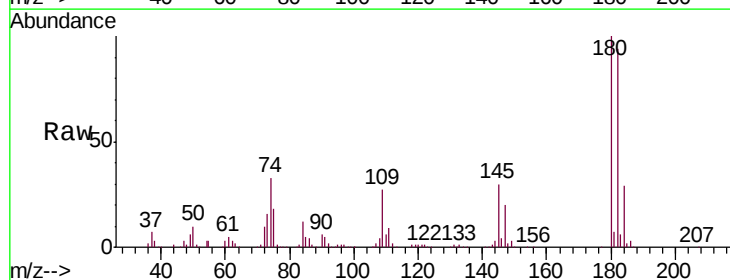


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

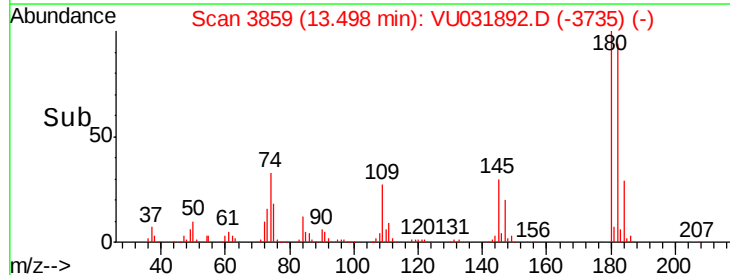
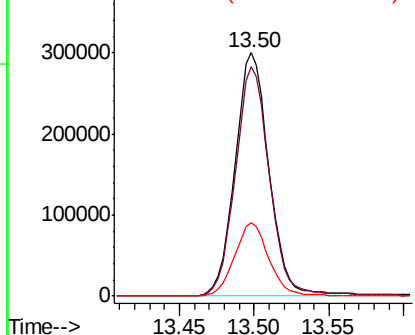


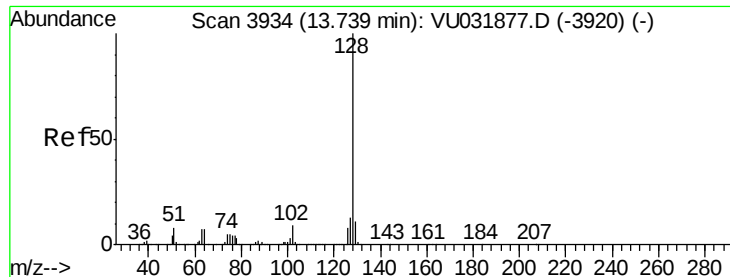
#68
 1,2,4-trichlorobenzene
 Concen: 48.981 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031892.D
 Acq: 10 May 2019 16:37

Tgt Ion:	180	Resp:	474071
Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.8	113.8
145	30.5	24.5	36.7



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: 53.194 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05040

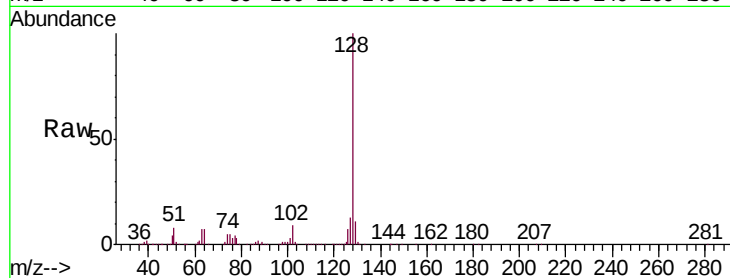
Tgt Ion:128 Resp: 1755391

Ion Ratio Lower Upper

128 100

127 12.8 10.6 15.8

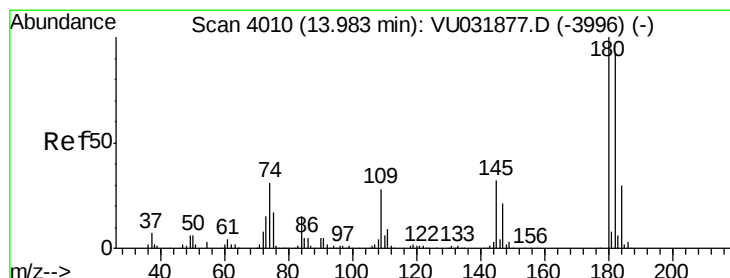
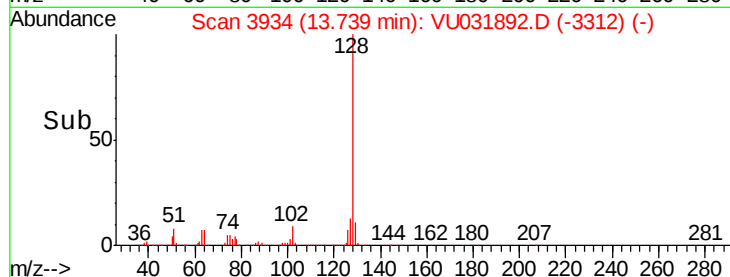
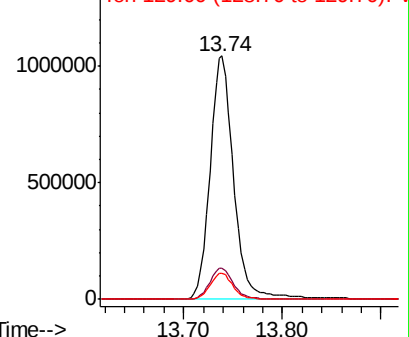
129 10.5 8.7 13.1



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: 47.478 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031892.D

Acq: 10 May 2019 16:37

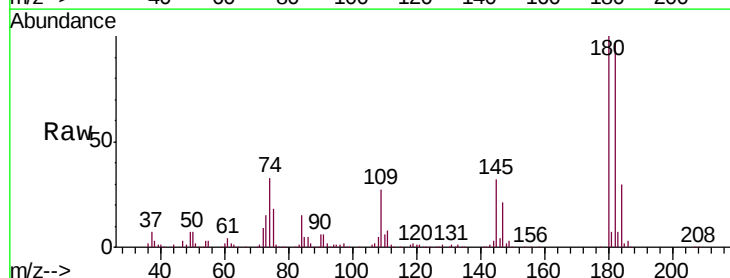
Tgt Ion:180 Resp: 523168

Ion Ratio Lower Upper

180 100

182 95.9 76.1 114.1

145 33.0 26.0 39.0



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

