

Data File : VU031917.D
Acq On : 11 May 2019 09:37
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

Quant Time: May 13 01:50:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Sat May 11 02:45:36 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	1083992	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	1109497	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	495620	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	396739	43.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.46%
7) Chloroethane-d5	1.67	69	335748	47.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.78%
11) 1,1-Dichloroethene-d2	2.27	63	771158	42.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.36%
21) 2-Butanone-d5	4.17	46	661734	80.50	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	80.50%
24) Chloroform-d	4.64	84	740983	44.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.20%
26) 1,2-Dichloroethane-d4	5.30	65	466814	43.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.00%
32) Benzene-d6	5.33	84	1476036	43.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.64%
36) 1,2-Dichloropropane-d6	6.32	67	496565	41.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	82.86%
41) Toluene-d8	7.56	98	1332854	44.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.84%
43) trans-1,3-Dichloropropene-	7.85	79	220147	42.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.58%
47) 2-Hexanone-d5	8.31	63	459031	88.48	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	88.48%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	754585	46.91	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.82%
64) 1,2-Dichlorobenzene-d4	11.85	152	483280	46.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.74%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	541538	45.431	ug/L	99
3) Chloromethane	1.32	50	571373	39.618	ug/L	99
5) Vinyl chloride	1.40	62	599471	44.459	ug/L	100
6) Bromomethane	1.61	94	337672	47.488	ug/L	97
8) Chloroethane	1.68	64	354609	48.112	ug/L	97
9) Trichlorofluoromethane	1.88	101	673361	43.808	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	403814	46.474	ug/L	99
12) 1,1-Dichloroethene	2.28	96	392938	46.461	ug/L	89
13) Acetone	2.32	43	824454	89.043	ug/L	98
14) Carbon disulfide	2.47	76	1245612	44.383	ug/L	100
15) Methyl Acetate	2.61	43	513511	36.653	ug/L #	90
16) Methylene chloride	2.69	84	472415	47.332	ug/L	90
17) trans-1,2-Dichloroethene	2.98	96	408361	46.339	ug/L	92
18) Methyl tert-butyl Ether	2.99	73	1269899	45.230	ug/L	98
19) 1,1-Dichloroethane	3.44	63	815715	43.952	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	453437	47.967	ug/L	93
22) 2-Butanone	4.25	43	912338	88.938	ug/L	89

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Quant Title : VOC Analysis
QLast Update : Sat May 11 02:45:36 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	216183	47.063	ug/L	86
25) Chloroform	4.67	83	798720	45.005	ug/L	99
27) 1,2-Dichloroethane	5.40	62	626971	43.493	ug/L	99
29) Cyclohexane	4.99	56	736027	41.916	ug/L	91
30) 1,1,1-Trichloroethane	4.91	97	627897	40.392	ug/L	99
31) Carbon tetrachloride	5.13	117	526081	39.594	ug/L	100
33) Benzene	5.38	78	1842400	45.166	ug/L	100
34) Trichloroethene	6.18	95	450386	45.549	ug/L	99
35) Methylcyclohexane	6.41	83	737546	49.770	ug/L	94
37) 1,2-Dichloropropane	6.43	63	487865	42.128	ug/L	99
38) Bromodichloromethane	6.75	83	595355	42.401	ug/L	98
39) cis-1,3-Dichloropropene	7.26	75	709686	46.378	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	1391482	78.099	ug/L	95
42) Toluene	7.63	91	1962278	48.292	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	623687	44.938	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	444767	46.588	ug/L	99
46) Tetrachloroethene	8.22	164	310559	46.070	ug/L	96
48) 2-Hexanone	8.36	43	1235049	85.707	ug/L #	94
49) Dibromochloromethane	8.47	129	437842	44.078	ug/L	100
50) 1,2-Dibromoethane	8.58	107	463585	45.978	ug/L	99
51) Chlorobenzene	9.12	112	1152352	47.990	ug/L	98
52) Ethylbenzene	9.24	91	2084386	49.452	ug/L	98
53) m,p-Xylene	9.37	106	783302	53.338	ug/L	91
54) o-xylene	9.77	106	770506	52.922	ug/L	93
55) Styrene	9.79	104	1342584	53.975	ug/L	96
56) Isopropylbenzene	10.16	105	1935467	50.554	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	809542	47.787	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	630063	45.889	ug/L	100
61) Bromoform	9.95	173	316684	43.105	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	818008	49.860	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	861604	50.711	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	872450	50.037	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	163796	40.476	ug/L	92
67) 1,3,5-Trichlorobenzene	12.88	180	603828	49.141	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	488727	50.240	ug/L	98
69) Naphthalene	13.74	128	1678454	50.606	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	526489	47.538	ug/L	100

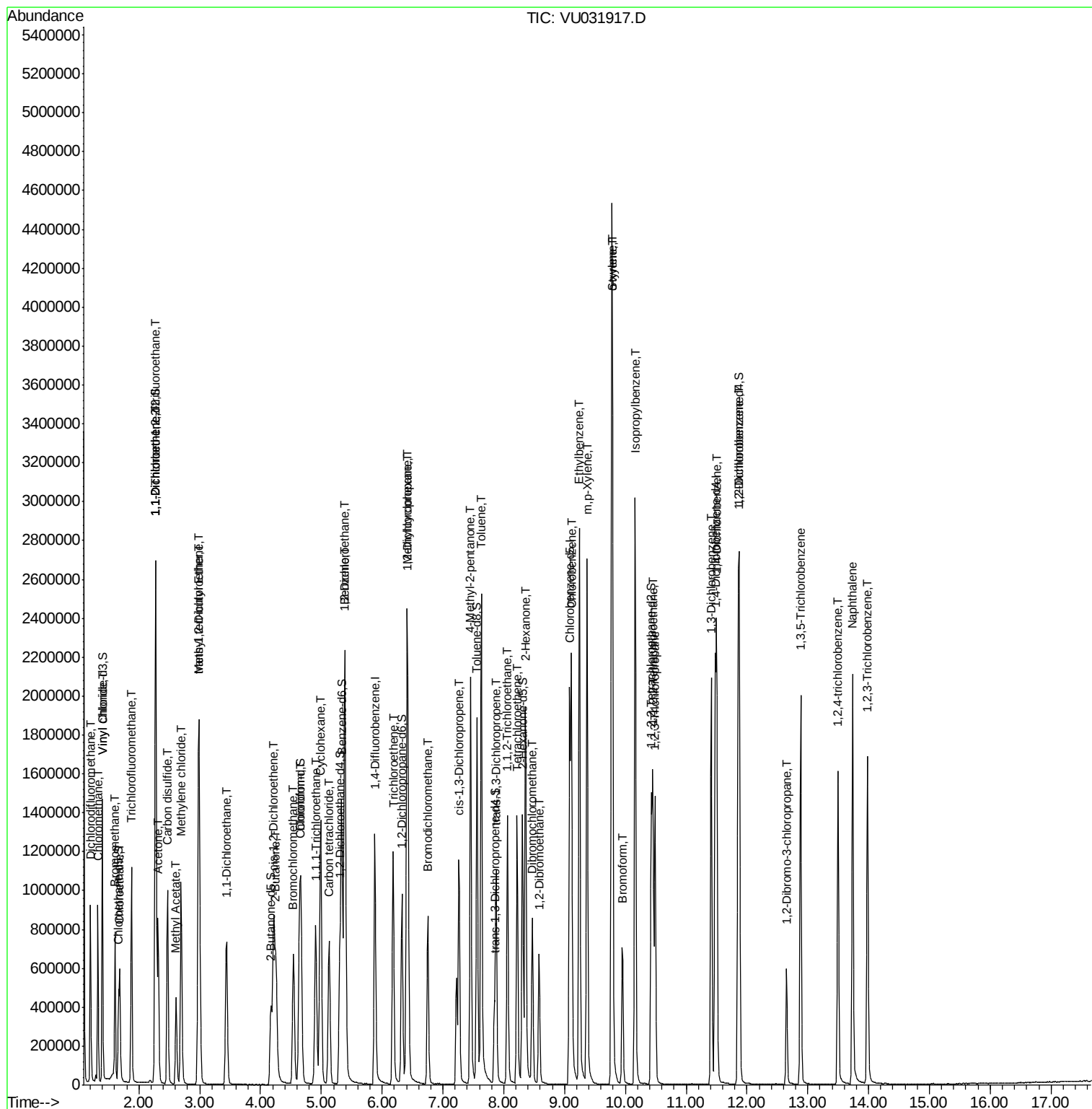
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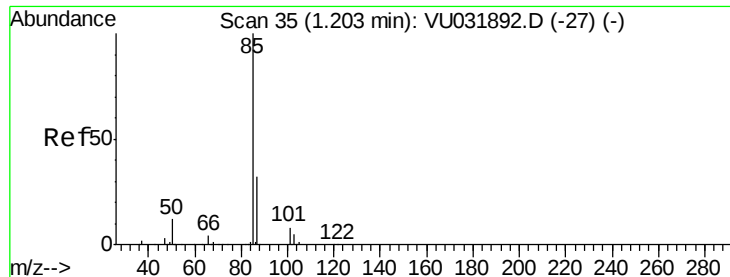
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```
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#2

Dichlorodifluoromethane

Concen: 45.431 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

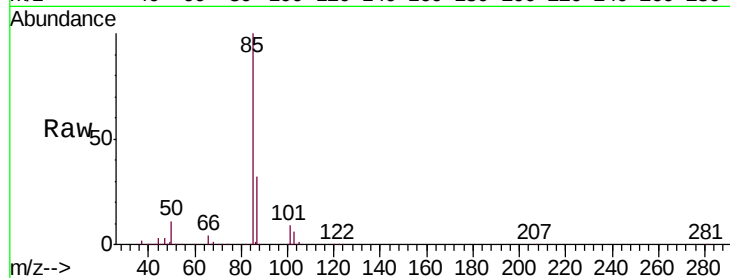
VSTD05042

Tgt Ion: 85 Resp: 541538

Ion Ratio Lower Upper

85 100

87 32.1 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031892.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU031892.D (-27) (-)

1.20

500000

400000

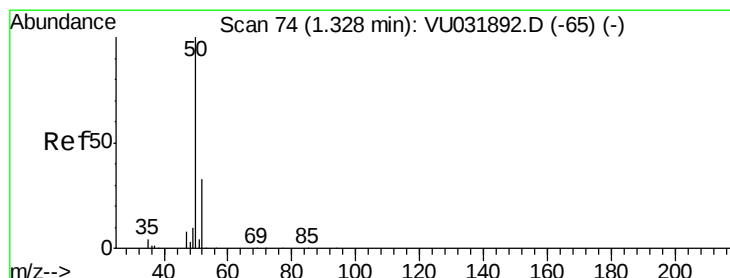
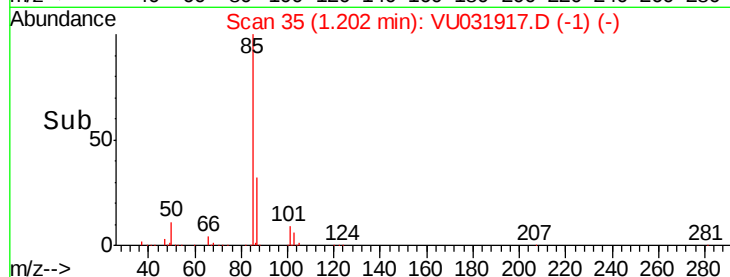
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 39.618 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU031917.D

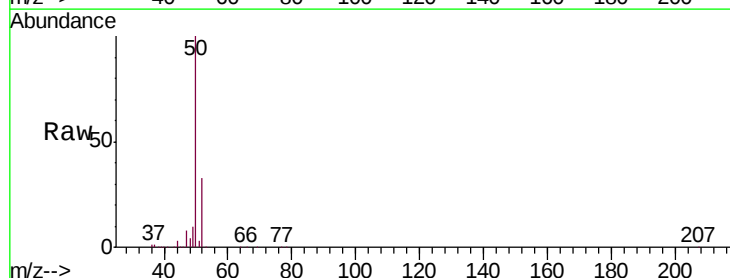
Acq: 11 May 2019 09:37

Tgt Ion: 50 Resp: 571373

Ion Ratio Lower Upper

50 100

52 33.1 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU031892.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU031892.D (-65) (-)

1.32

600000

500000

400000

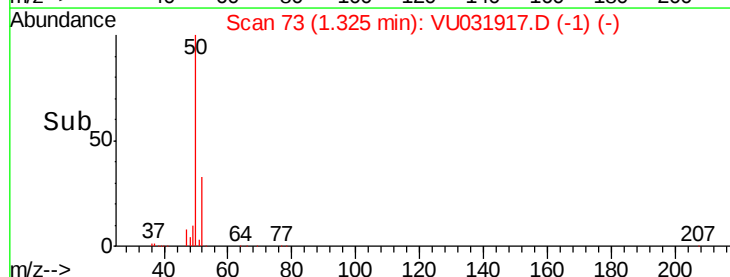
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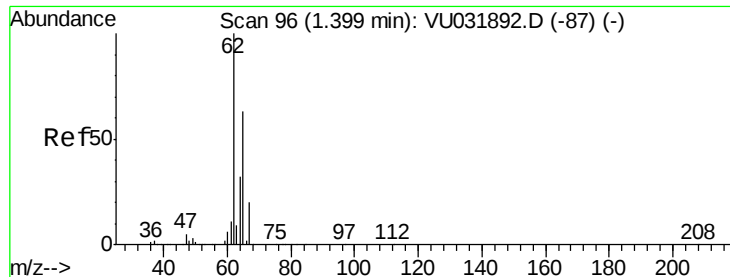
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 44.459 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

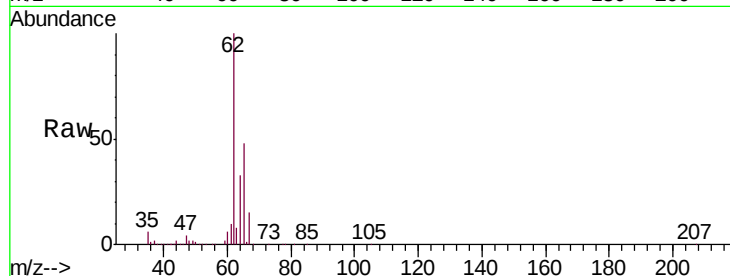
VSTD05042

Tgt Ion: 62 Resp: 599471

Ion Ratio Lower Upper

62 100

64 33.1 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU031892.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU031892.D (-87) (-)

1.40

600000

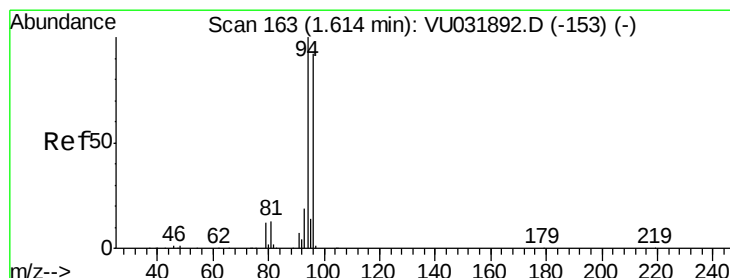
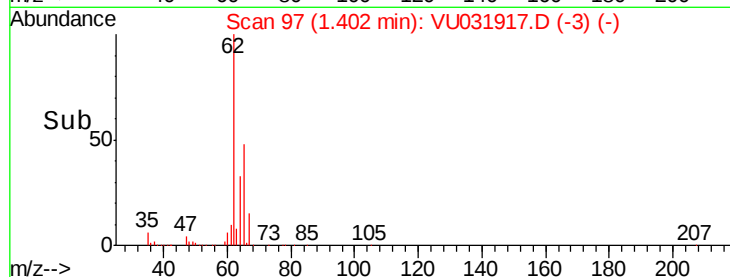
400000

200000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 47.488 ug/L

RT: 1.61 min Scan# 161

Delta R.T. -0.01 min

Lab File: VU031917.D

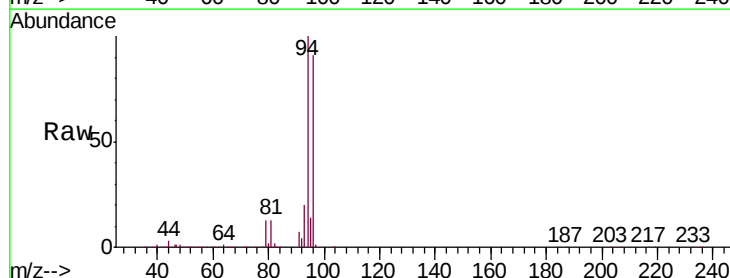
Acq: 11 May 2019 09:37

Tgt Ion: 94 Resp: 337672

Ion Ratio Lower Upper

94 100

96 91.3 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU031892.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU031892.D (-153) (-)

1.61

300000

250000

200000

150000

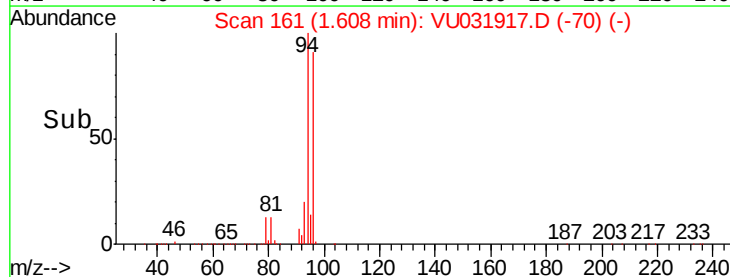
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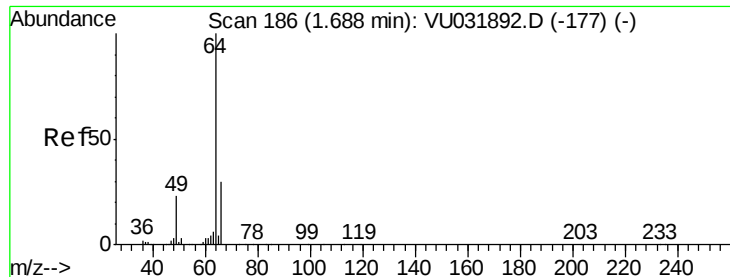
50000

0

1.55 1.60 1.65

Time-->





#8

Chloroethane

Concen: 48.112 ug/L

RT: 1.68 min Scan# 185

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

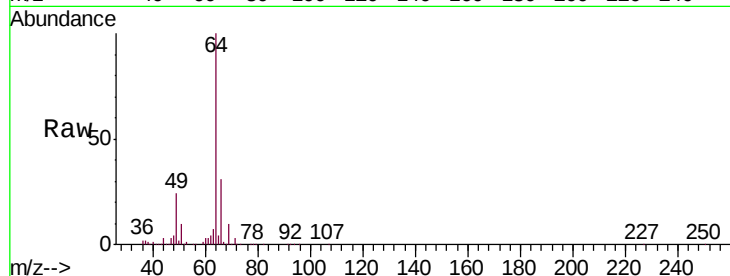
VSTD05042

Tgt Ion: 64 Resp: 354609

Ion Ratio Lower Upper

64 100

66 31.4 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VU031917.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU031917.D (-177) (-)

1.68

250000

200000

150000

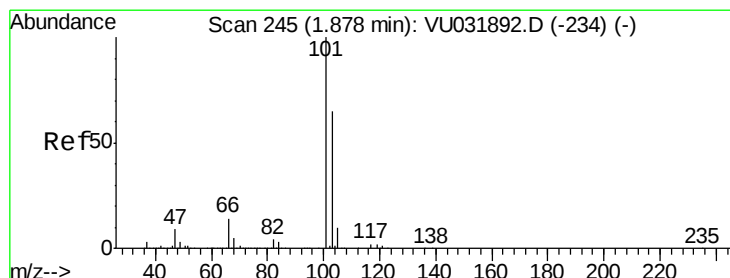
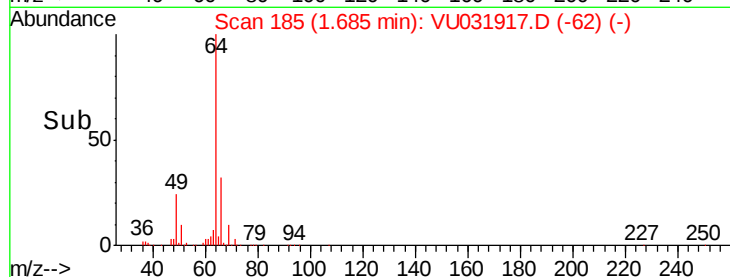
100000

50000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 43.808 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU031917.D

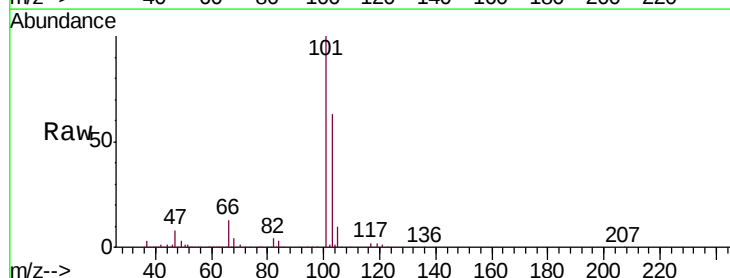
Acq: 11 May 2019 09:37

Tgt Ion: 101 Resp: 673361

Ion Ratio Lower Upper

101 100

103 64.5 50.8 76.2



Abundance Ion 101.00 (100.70 to 101.70): VU031917.D (-121) (-)

Ion 103.00 (102.70 to 103.70): VU031917.D (-121) (-)

1.88

500000

400000

300000

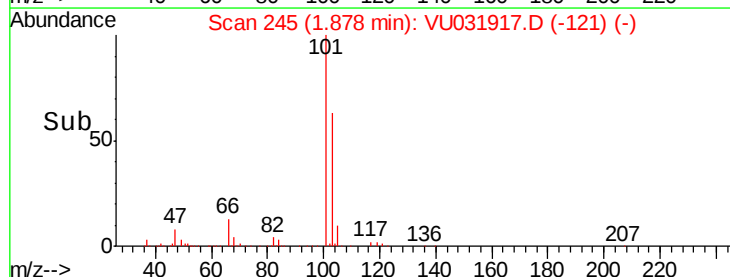
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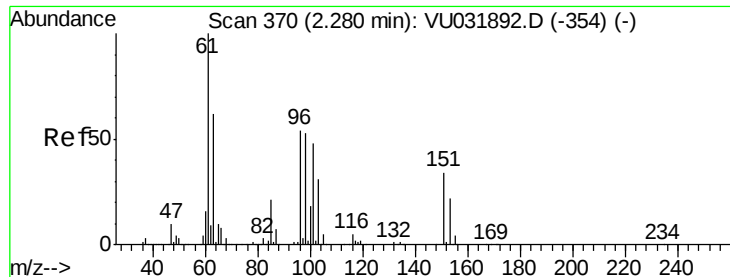
100000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 46.474 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

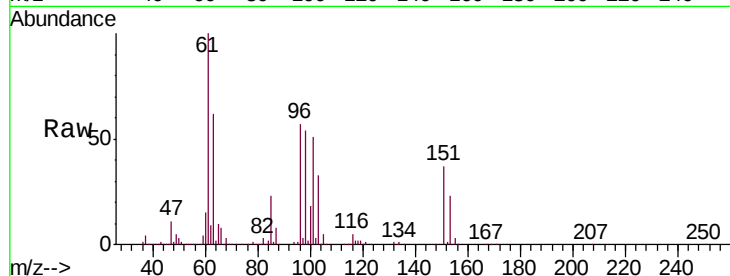
Tgt Ion: 101 Resp: 403814

Ion Ratio Lower Upper

101 100

85 44.0 36.1 54.1

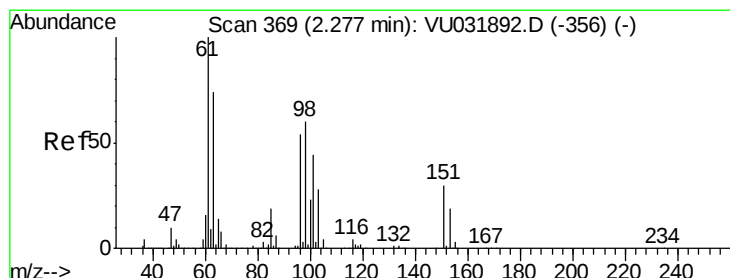
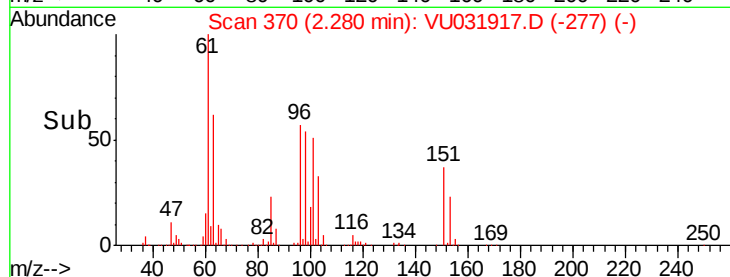
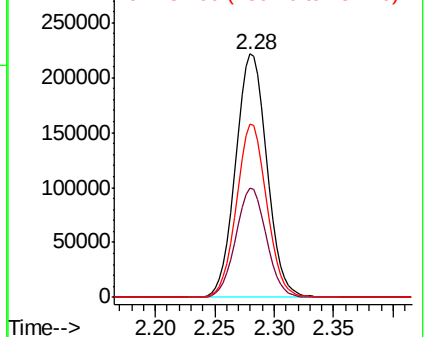
151 69.0 56.1 84.1



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: 46.461 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

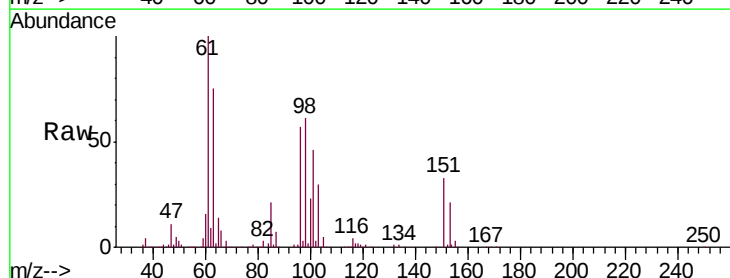
Tgt Ion: 96 Resp: 392938

Ion Ratio Lower Upper

96 100

61 177.0 135.0 250.6

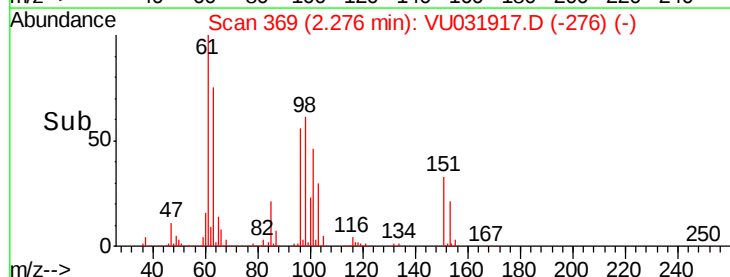
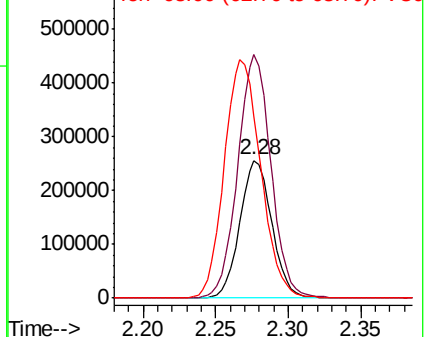
63 132.5 103.5 192.3

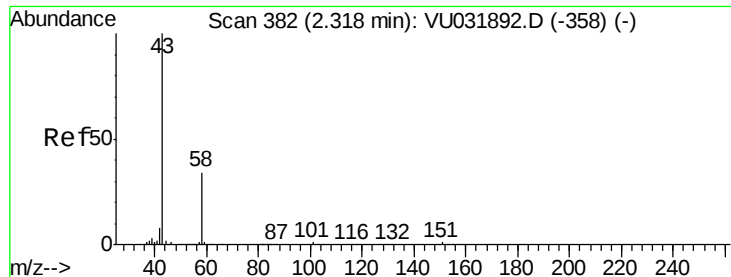


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 89.043 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

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MSVOA_U

ClientSampleId :

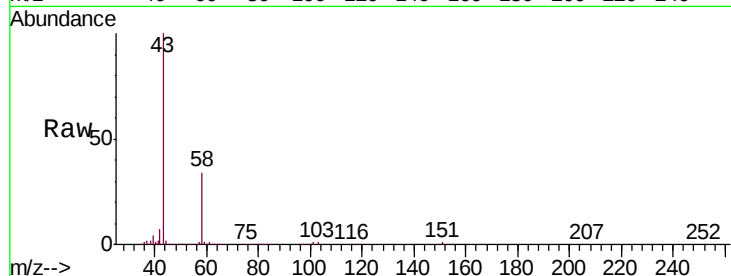
VSTD05042

Tgt Ion: 43 Resp: 824454

Ion Ratio Lower Upper

43 100

58 33.4 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031892.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU031892.D (-358) (-)

600000

500000

400000

300000

200000

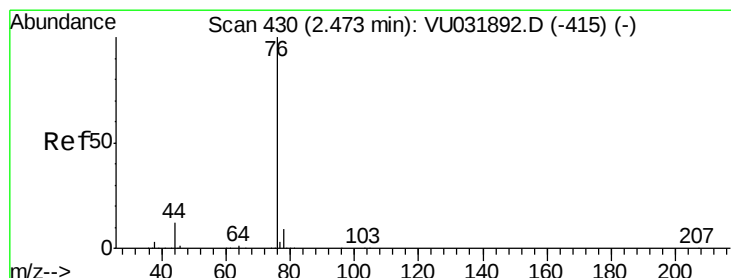
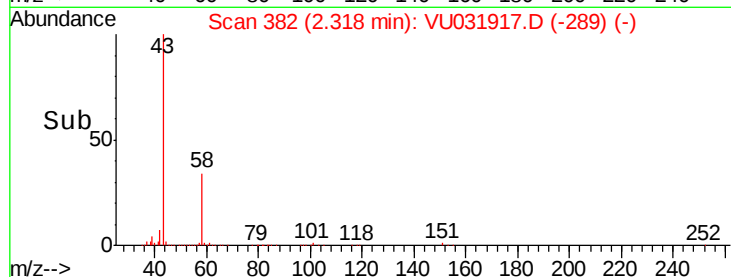
100000

0

2.32

2.30 2.35 2.40

Time-->



#14

Carbon disulfide

Concen: 44.383 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU031917.D

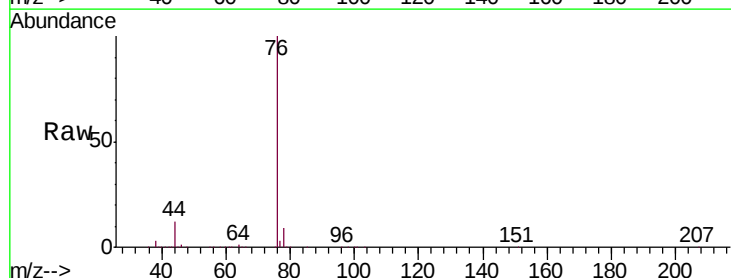
Acq: 11 May 2019 09:37

Tgt Ion: 76 Resp: 1245612

Ion Ratio Lower Upper

76 100

78 8.8 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU031892.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU031892.D (-415) (-)

800000

600000

400000

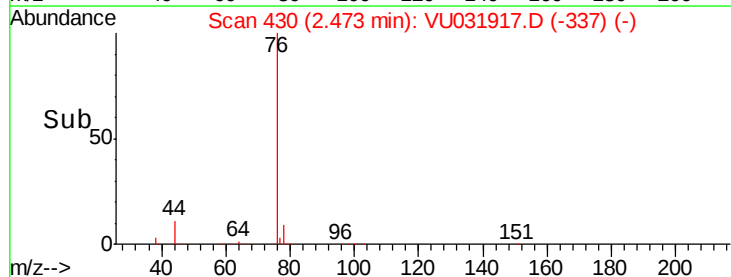
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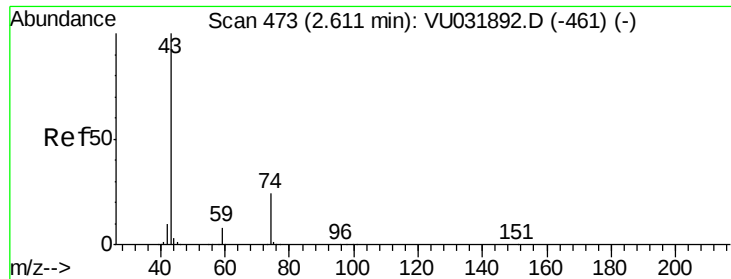
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2.47

2.40 2.50 2.60

Time-->

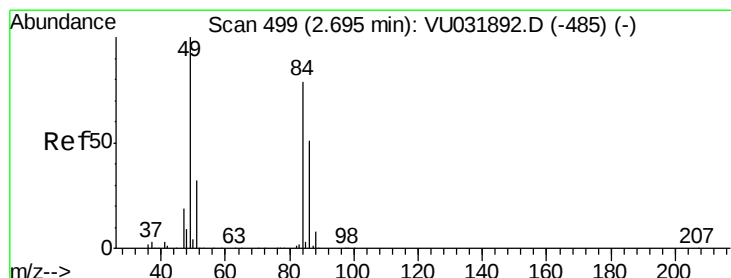
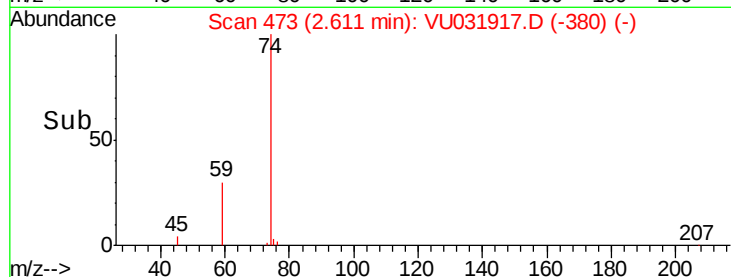
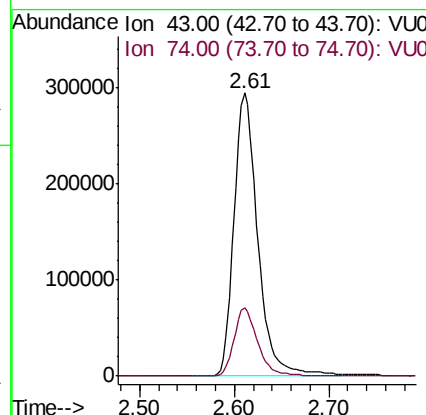
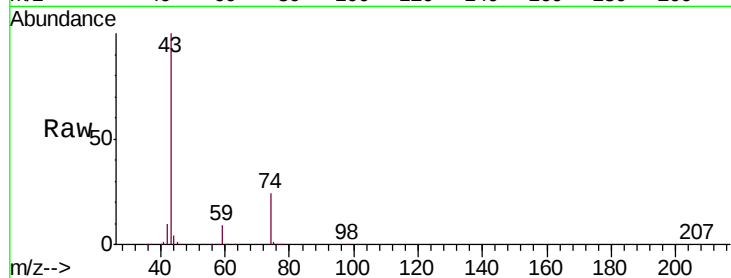




#15
Methyl Acetate
Concen: 36.653 ug/L
RT: 2.61 min Scan# 473
Delta R.T. -0.00 min
Lab File: VU031917.D
Acq: 11 May 2019 09:37

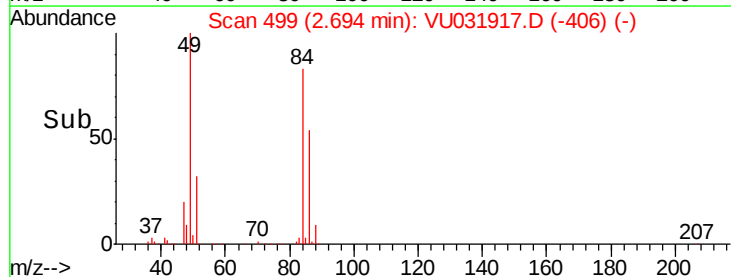
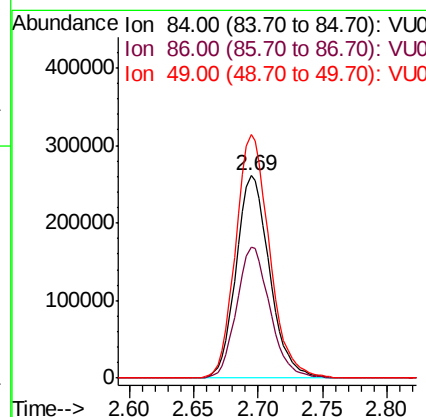
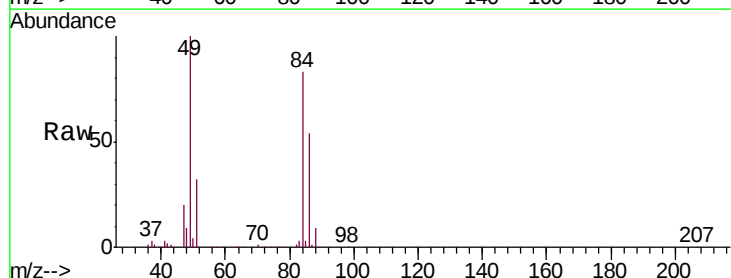
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

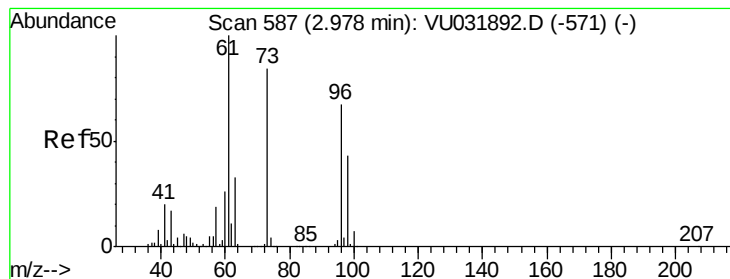
Tgt Ion: 43 Resp: 513511
Ion Ratio Lower Upper
43 100
74 24.1 15.7 23.5#



#16
Methylene chloride
Concen: 47.332 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU031917.D
Acq: 11 May 2019 09:37

Tgt Ion: 84 Resp: 472415
Ion Ratio Lower Upper
84 100
86 65.0 44.7 83.1
49 120.5 96.5 179.3





#17

trans-1,2-Dichloroethene

Concen: 46.339 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

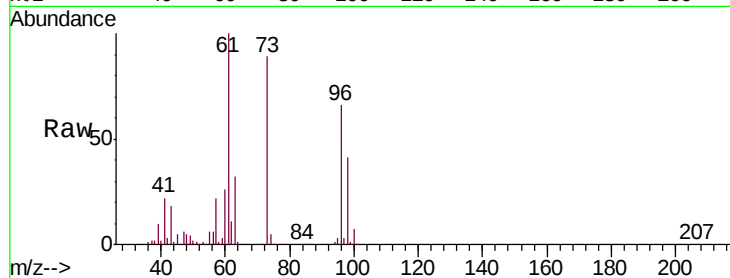
Tgt Ion: 96 Resp: 408361

Ion Ratio Lower Upper

96 100

61 151.1 114.5 212.7

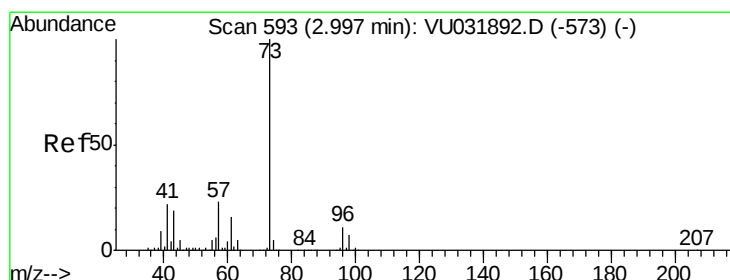
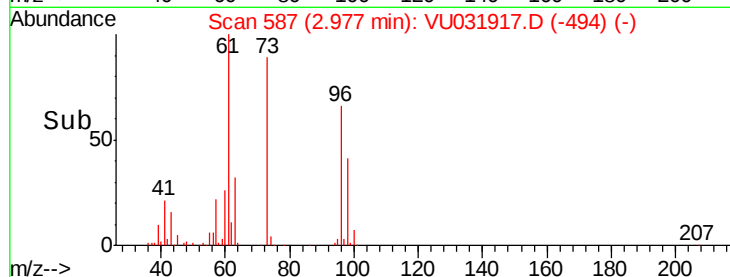
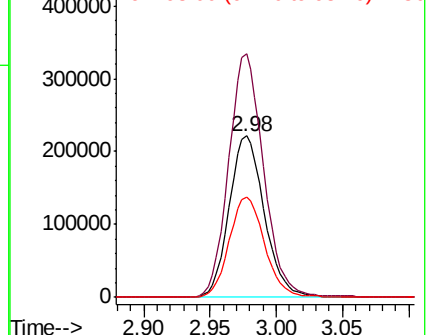
98 62.4 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU031917.D (-500) (-)

Ion 61.00 (60.70 to 61.70): VU031917.D (-500) (-)

Ion 98.00 (97.70 to 98.70): VU031917.D (-500) (-)



#18

Methyl tert-butyl Ether

Concen: 45.230 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

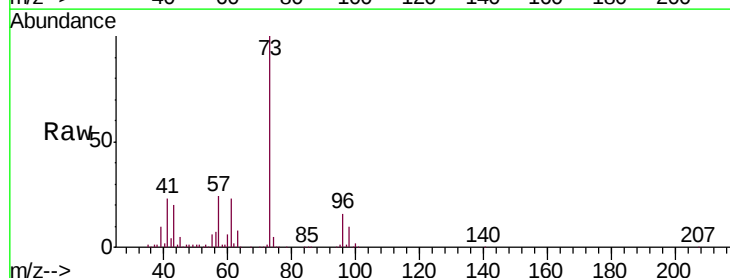
Tgt Ion: 73 Resp: 1269899

Ion Ratio Lower Upper

73 100

43 19.3 17.0 25.4

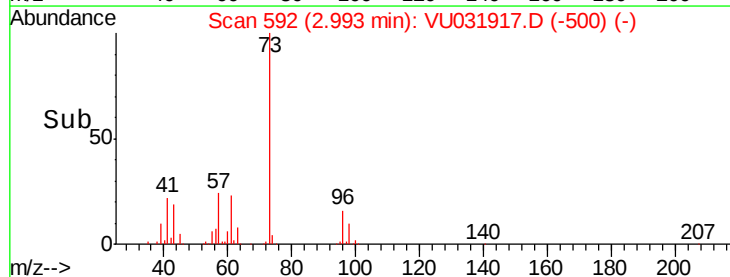
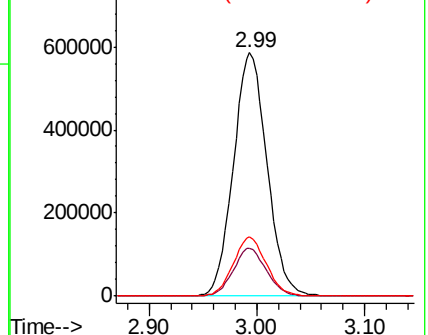
57 23.9 19.5 29.3

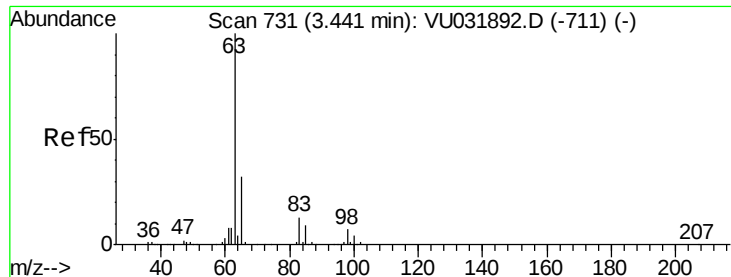


Abundance Ion 73.00 (72.70 to 73.70): VU031917.D (-500) (-)

Ion 43.00 (42.70 to 43.70): VU031917.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU031917.D (-500) (-)

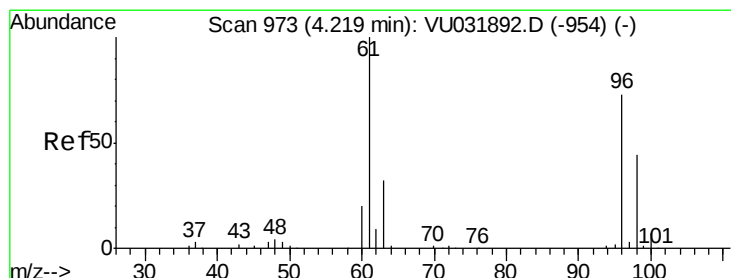
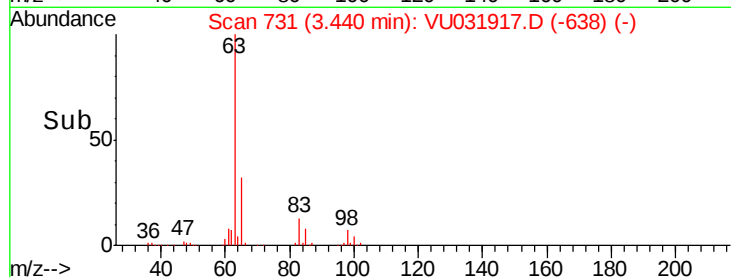
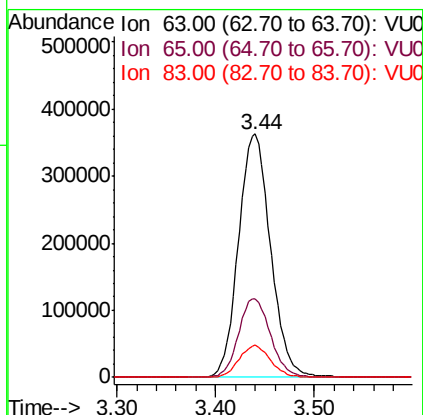
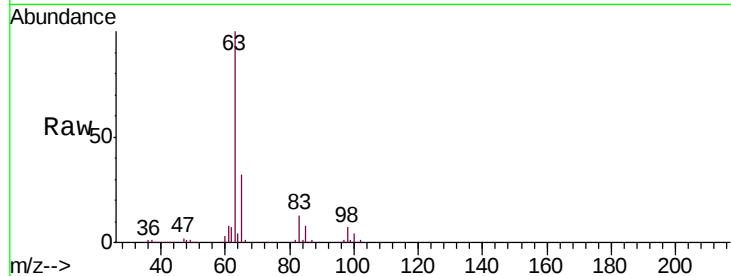




#19
 1,1-Dichloroethane
 Concen: 43.952 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU031917.D
 Acq: 11 May 2019 09:37

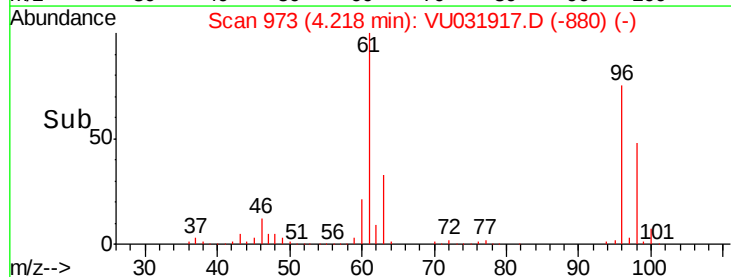
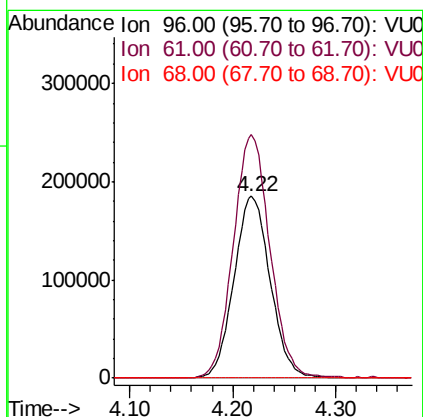
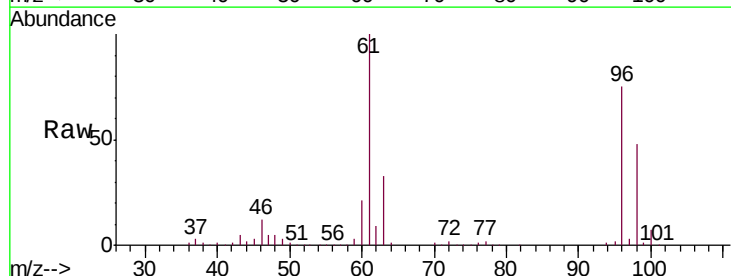
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

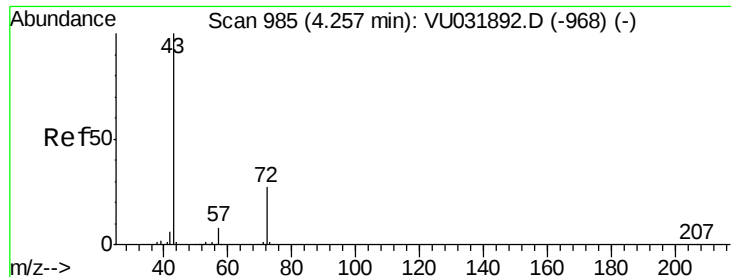
Tgt Ion: 63 Resp: 815715
 Ion Ratio Lower Upper
 63 100
 65 32.2 22.0 40.8
 83 13.1 8.8 16.4



#20
 cis-1,2-Dichloroethene
 Concen: 47.967 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031917.D
 Acq: 11 May 2019 09:37

Tgt Ion: 96 Resp: 453437
 Ion Ratio Lower Upper
 96 100
 61 133.9 99.5 184.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 88.938 ug/L

RT: 4.25 min Scan# 984

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

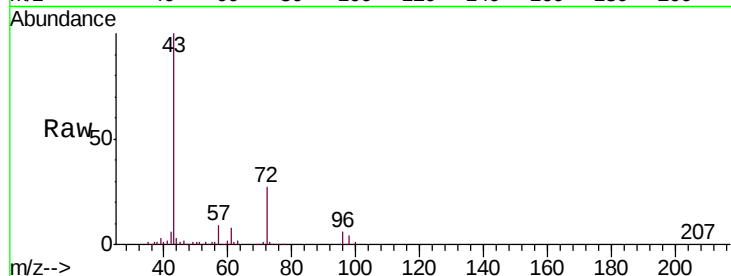
VSTD05042

Tgt Ion: 43 Resp: 912338

Ion Ratio Lower Upper

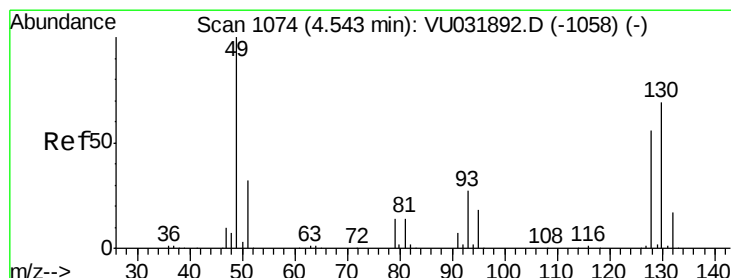
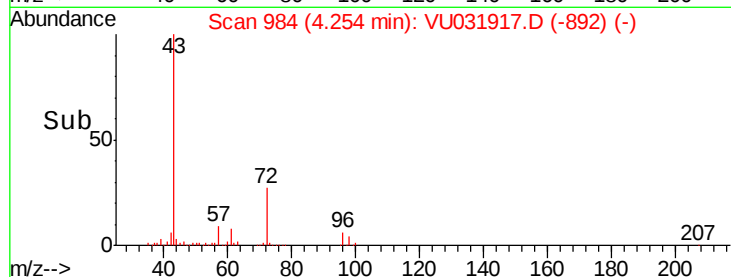
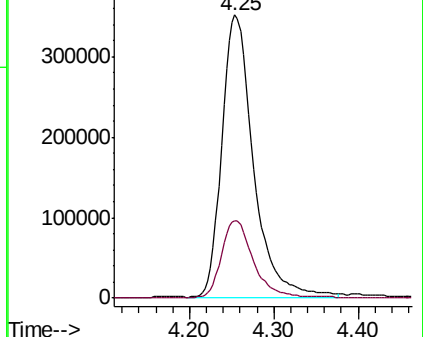
43 100

72 27.9 11.4 34.2



Abundance Ion 43.00 (42.70 to 43.70): VU031892.D (-968) (-)

Ion 72.00 (71.70 to 72.70): VU031892.D (-968) (-)



#23

Bromochloromethane

Concen: 47.063 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Tgt Ion: 128 Resp: 216183

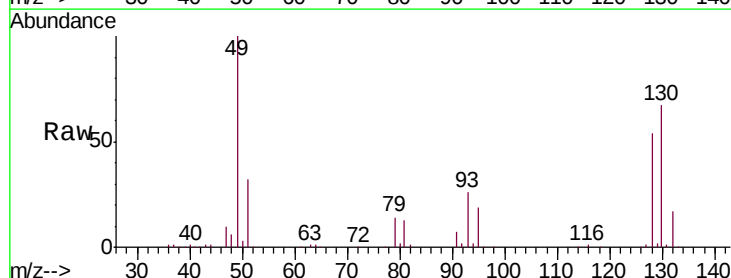
Ion Ratio Lower Upper

128 100

49 185.8 152.6 283.4

130 125.0 93.7 173.9

51 60.3 54.2 81.4

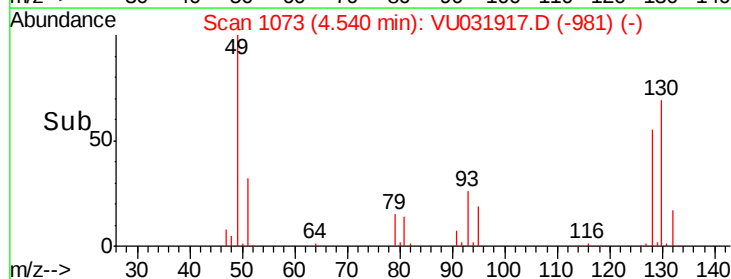
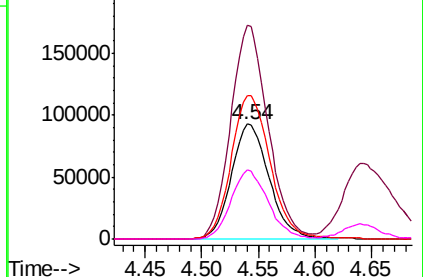


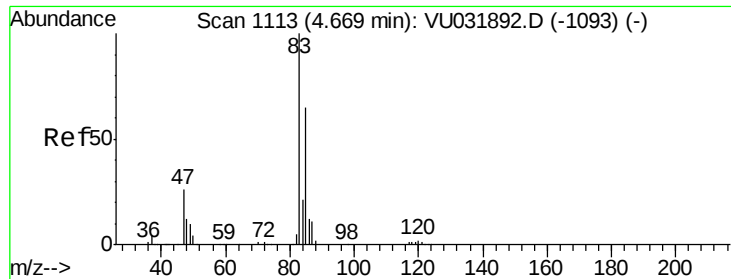
Abundance Ion 128.00 (127.70 to 128.70): VU031892.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU031892.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU031892.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU031892.D (-1058) (-)

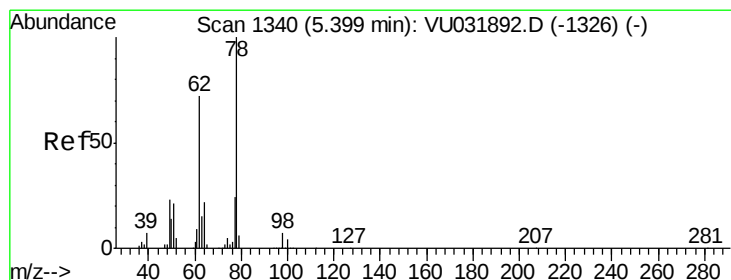
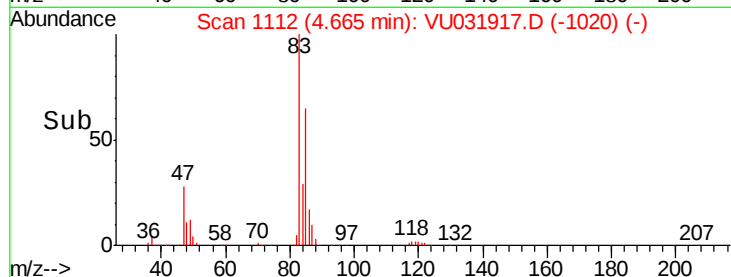
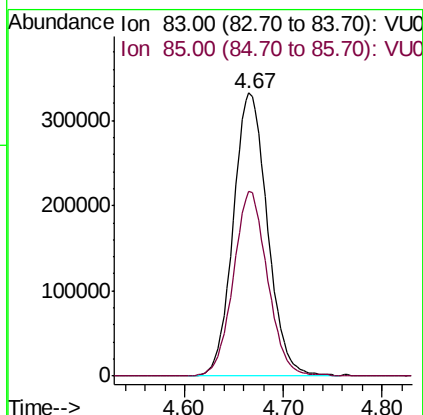
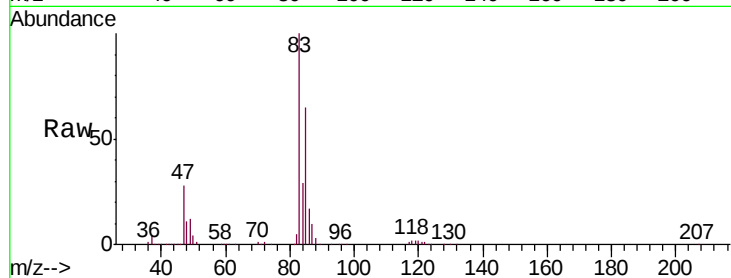




#25
Chloroform
Concen: 45.005 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VU031917.D
Acq: 11 May 2019 09:37

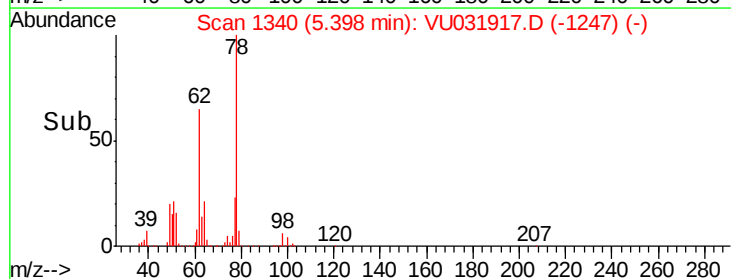
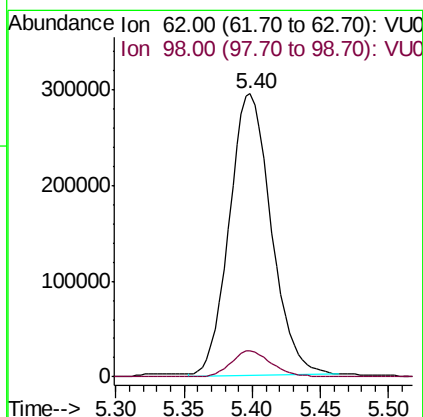
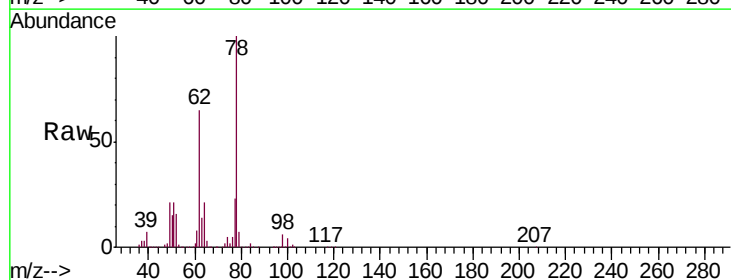
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

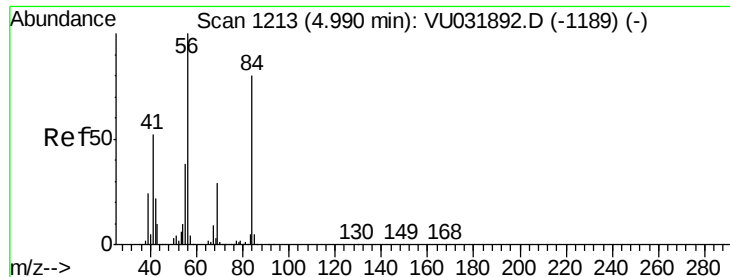
Tgt Ion: 83 Resp: 798720
Ion Ratio Lower Upper
83 100
85 65.3 44.9 83.3



#27
1,2-Dichloroethane
Concen: 43.493 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU031917.D
Acq: 11 May 2019 09:37

Tgt Ion: 62 Resp: 626971
Ion Ratio Lower Upper
62 100
98 9.2 7.1 10.7

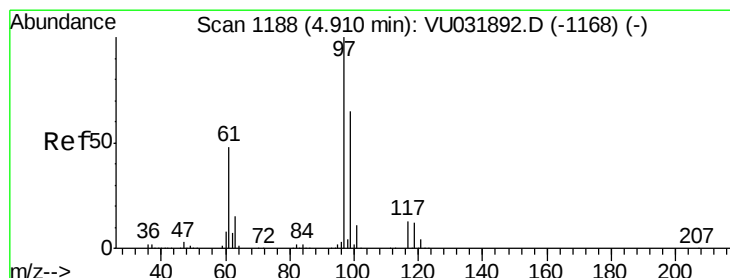
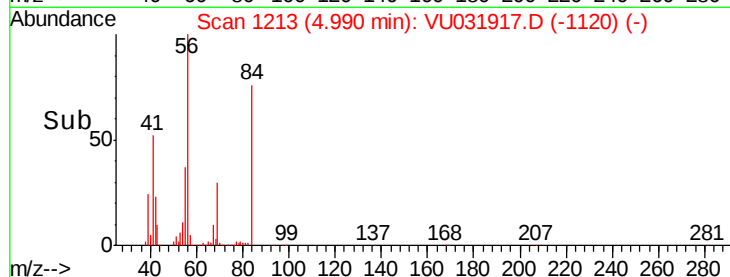
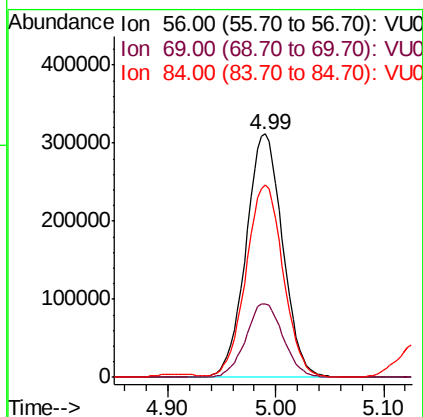
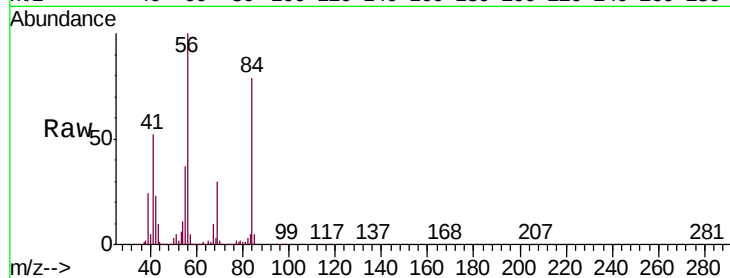




#29
Cyclohexane
Concen: 41.916 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU031917.D
Acq: 11 May 2019 09:37

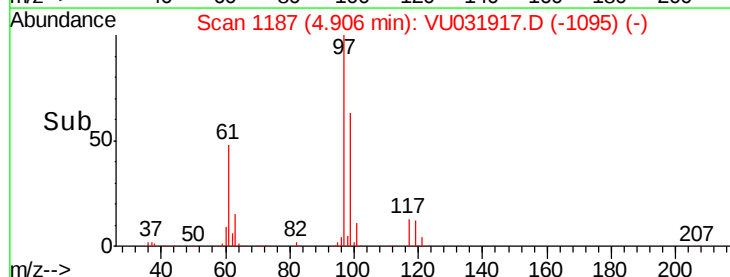
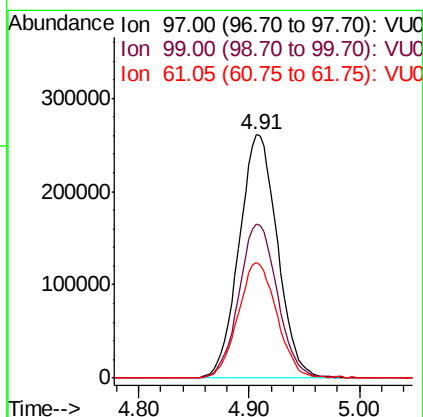
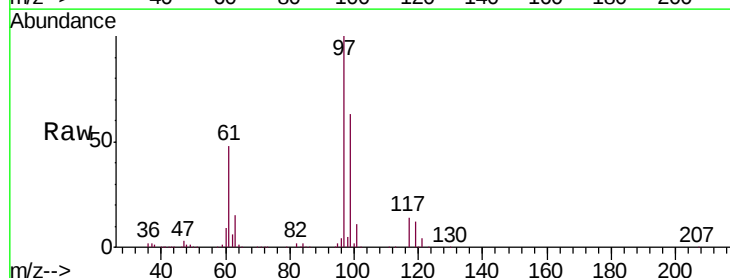
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

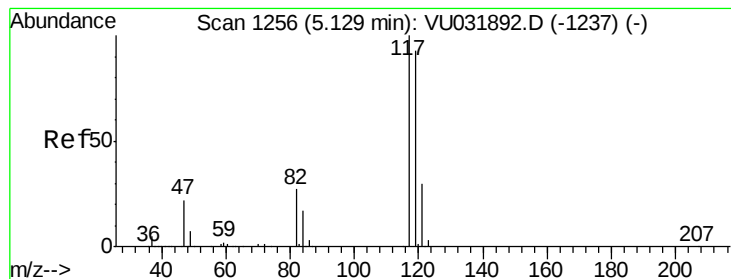
Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.7	22.3	33.5
84	80.3	57.5	86.3



#30
1,1,1-Trichloroethane
Concen: 40.392 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. -0.00 min
Lab File: VU031917.D
Acq: 11 May 2019 09:37

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.6	52.0	78.0
61	47.8	38.7	58.1





#31

Carbon tetrachloride

Concen: 39.594 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

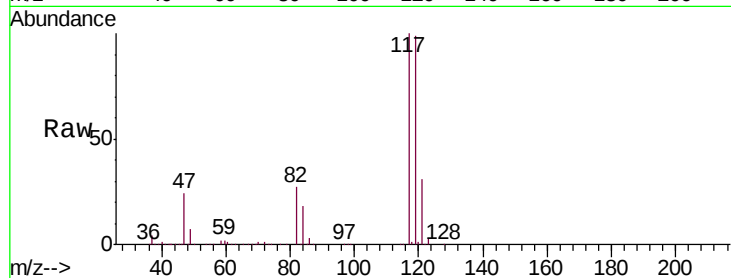
VSTD05042

Tgt Ion:117 Resp: 526081

Ion Ratio Lower Upper

117 100

119 95.6 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.13

250000

200000

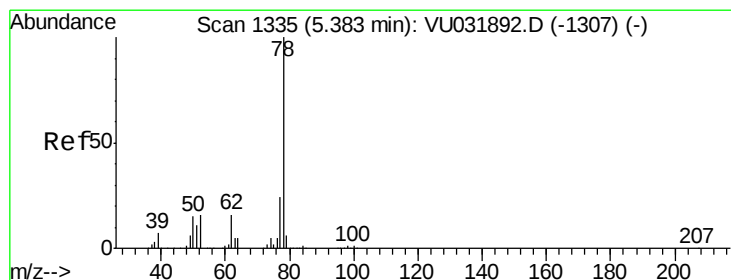
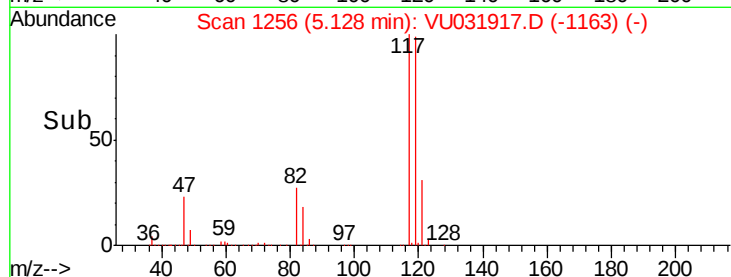
150000

100000

50000

0

Time--> 5.00 5.05 5.10 5.15 5.20



#33

Benzene

Concen: 45.166 ug/L

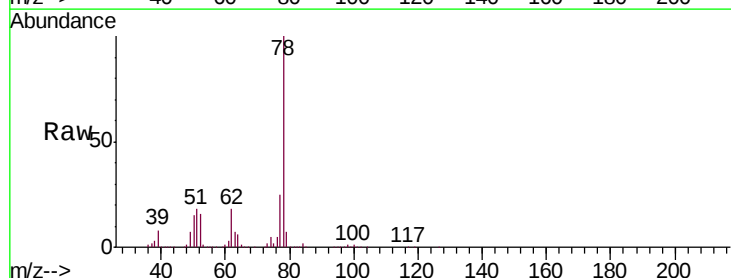
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Tgt Ion: 78 Resp: 1842400



Abundance Ion 78.00 (77.70 to 78.70): VU0

1000000

800000

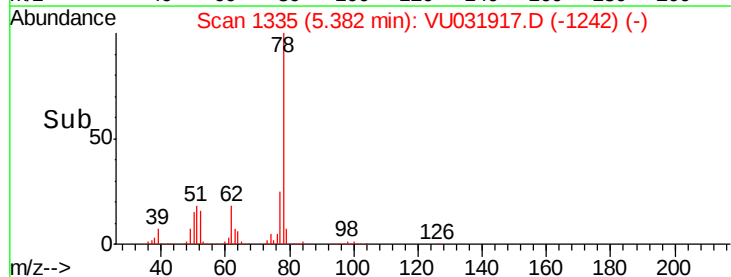
600000

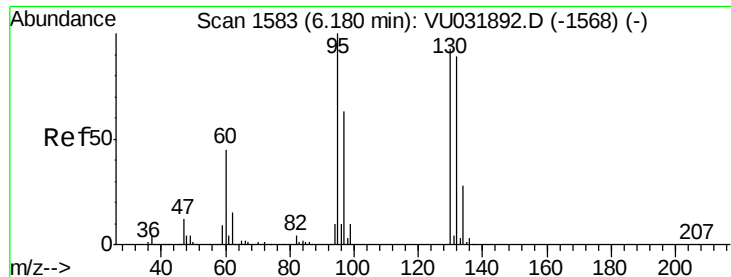
400000

200000

0

Time--> 5.30 5.40 5.50

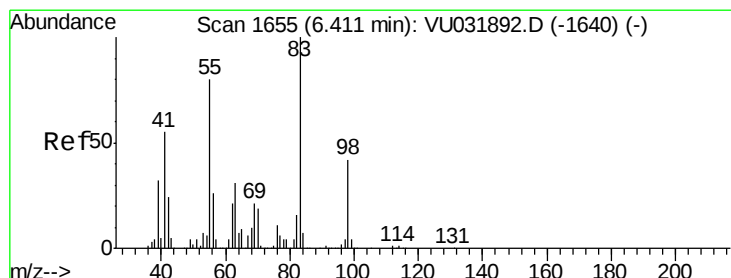
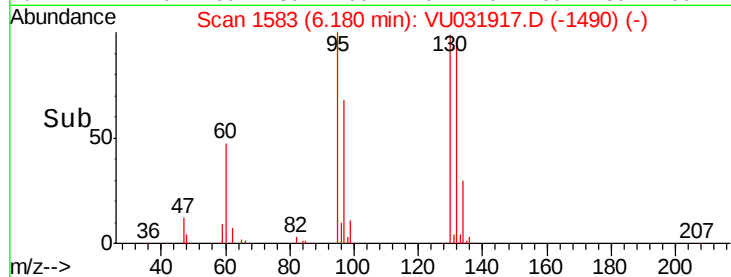
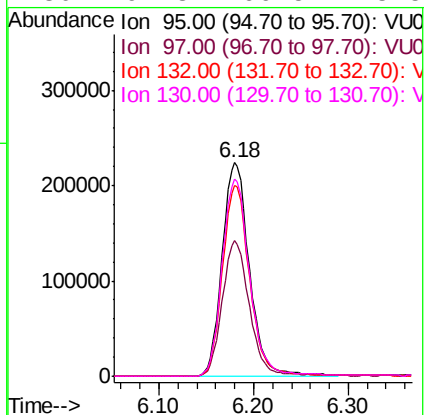
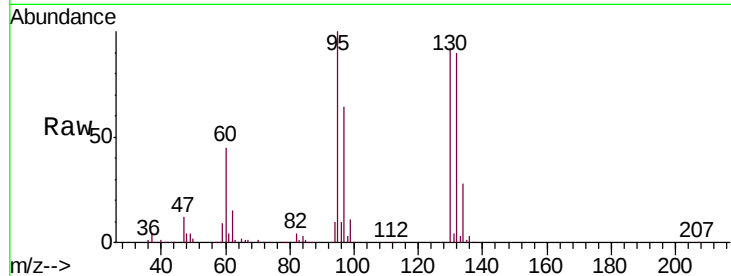




#34
 Trichloroethene
 Concen: 45.549 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU031917.D
 Acq: 11 May 2019 09:37

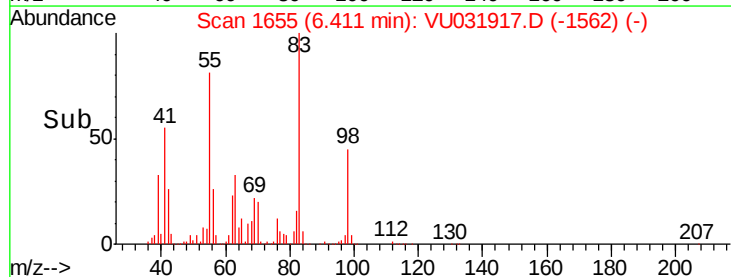
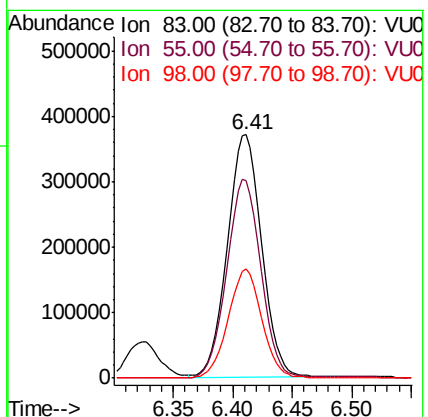
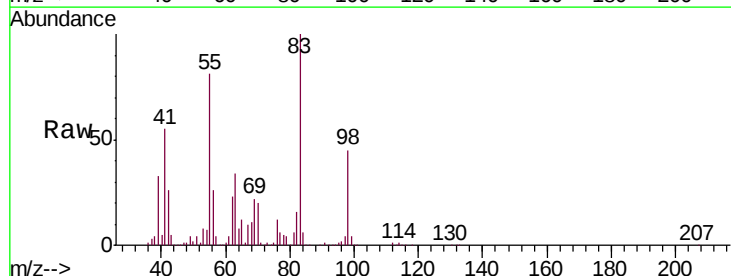
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

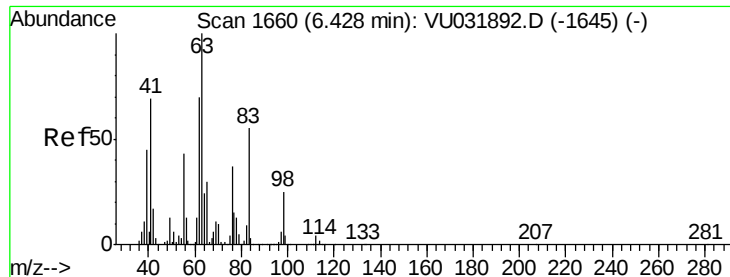
Tgt Ion:	95	Resp:	450386
Ion	Ratio	Lower	Upper
95	100		
97	63.7	44.8	83.2
132	89.6	63.1	117.1
130	92.3	66.5	123.5



#35
 Methylcyclohexane
 Concen: 49.770 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU031917.D
 Acq: 11 May 2019 09:37

Tgt Ion:	83	Resp:	737546
Ion	Ratio	Lower	Upper
83	100		
55	82.4	73.0	109.4
98	44.1	35.3	52.9





#37

1,2-Dichloropropane

Concen: 42.128 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampled :

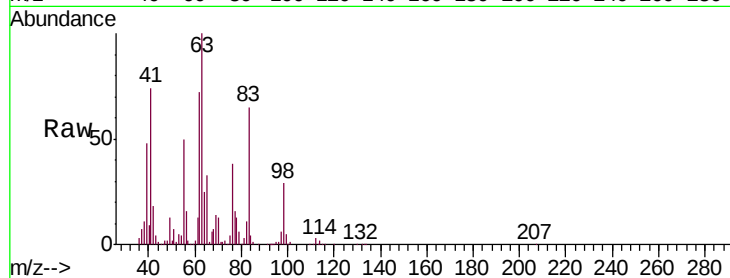
VSTD05042

Tgt Ion: 63 Resp: 487865

Ion Ratio Lower Upper

63 100

112 3.7 2.7 4.1



Abundance Ion 63.00 (62.70 to 63.70): VU031892.D (-1645) (-)

Ion 112.00 (111.70 to 112.70): VU031892.D (-1645) (-)

6.43

250000

200000

150000

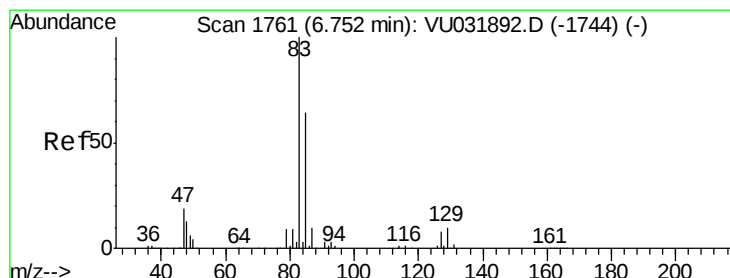
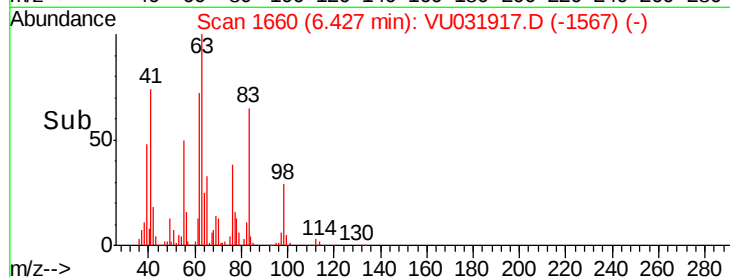
100000

50000

0

6.40 6.50

Time-->



#38

Bromodichloromethane

Concen: 42.401 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

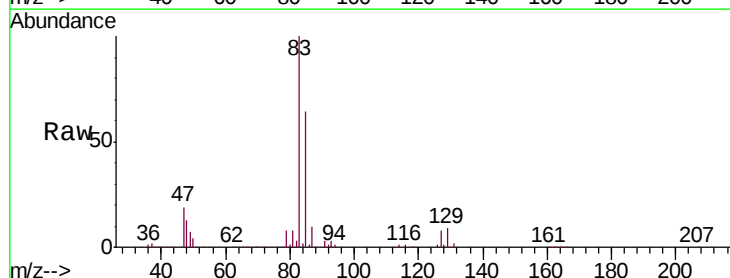
Tgt Ion: 83 Resp: 595355

Ion Ratio Lower Upper

83 100

85 64.3 43.7 81.1

127 7.7 6.7 10.1



Abundance Ion 83.00 (82.70 to 83.70): VU031892.D (-1744) (-)

Ion 85.00 (84.70 to 85.70): VU031892.D (-1744) (-)

Ion 127.00 (126.70 to 127.70): VU031892.D (-1744) (-)

6.75

400000

300000

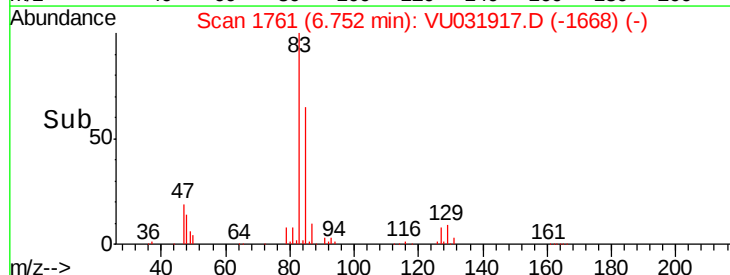
200000

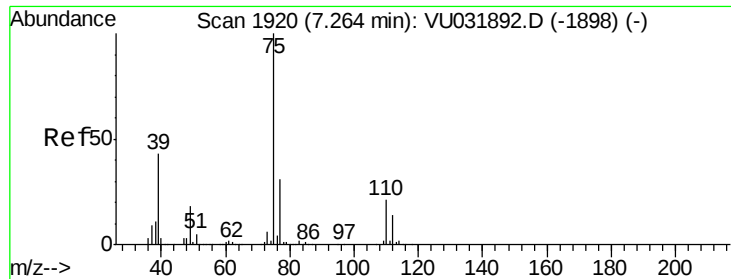
100000

0

6.70 6.80

Time-->

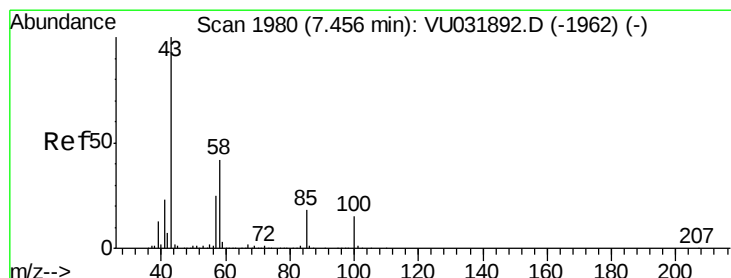
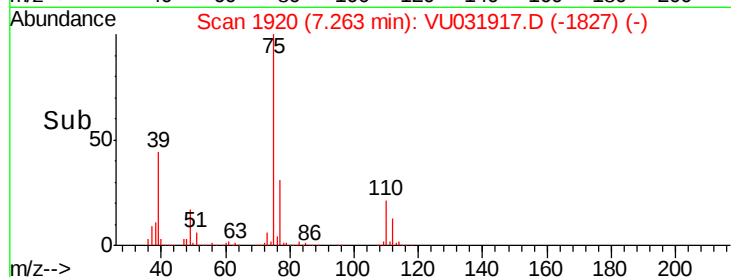
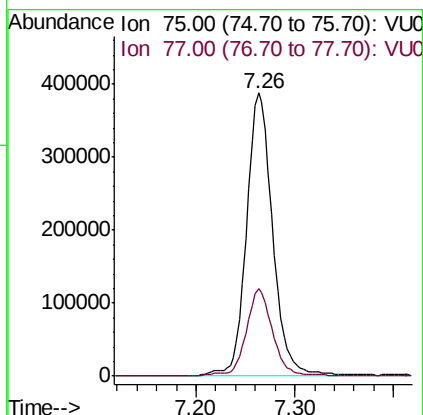
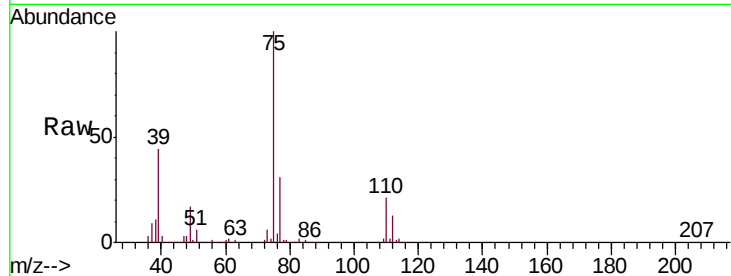




#39
 cis-1,3-Dichloropropene
 Concen: 46.378 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU031917.D
 Acq: 11 May 2019 09:37

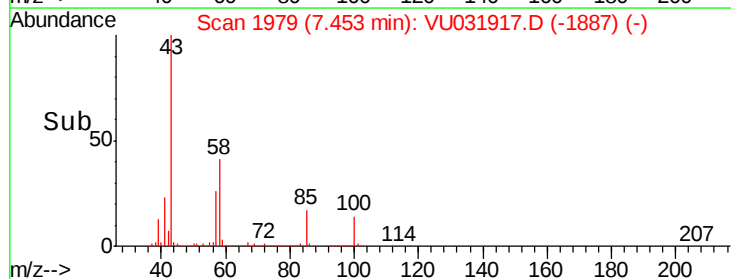
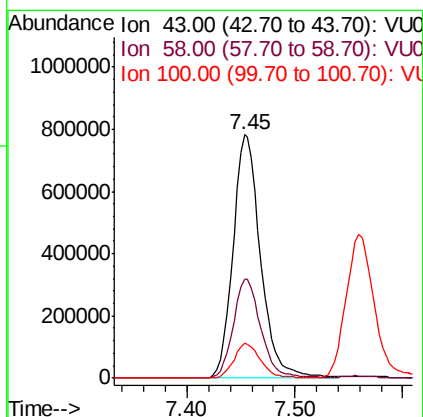
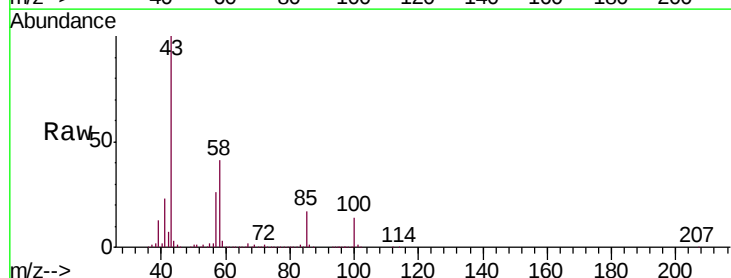
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

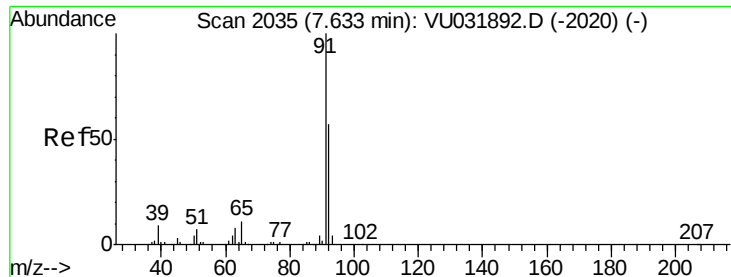
Tgt Ion: 75 Resp: 709686
 Ion Ratio Lower Upper
 75 100
 77 30.8 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 78.099 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VU031917.D
 Acq: 11 May 2019 09:37

Tgt Ion: 43 Resp: 1391482
 Ion Ratio Lower Upper
 43 100
 58 40.8 30.1 45.1
 100 13.8 9.6 14.4





#42

Toluene

Concen: 48.292 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

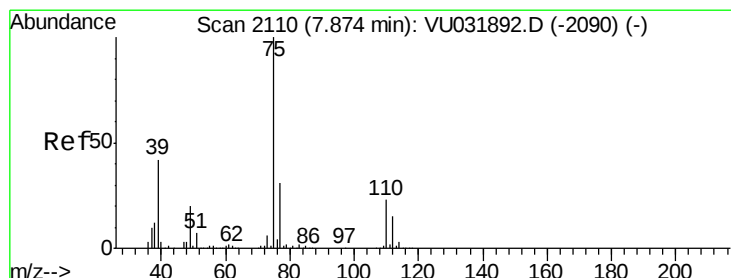
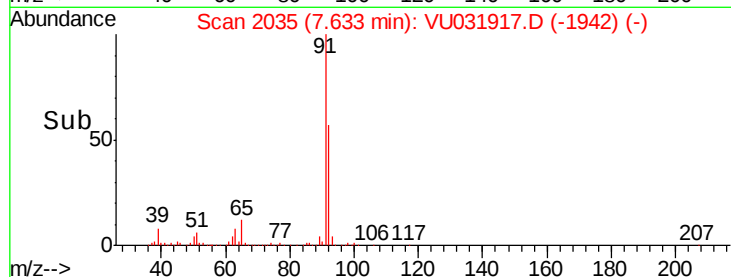
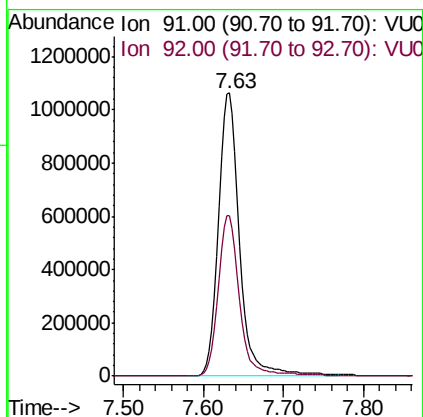
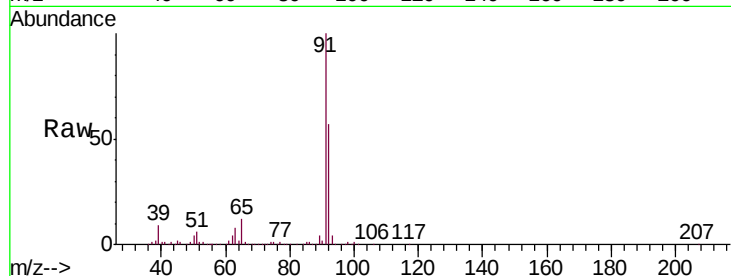
VSTD05042

Tgt Ion: 91 Resp: 1962278

Ion Ratio Lower Upper

91 100

92 56.6 39.0 72.4



#44

trans-1,3-Dichloropropene

Concen: 44.938 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU031917.D

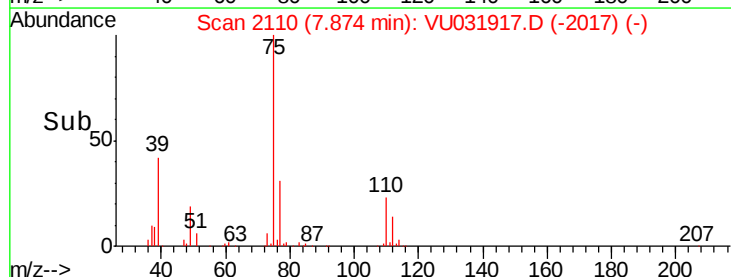
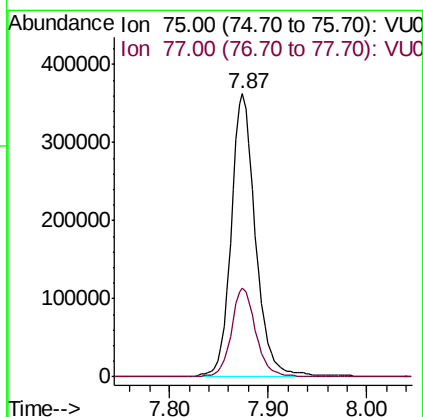
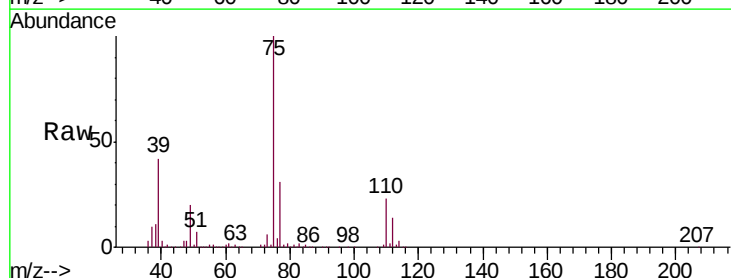
Acq: 11 May 2019 09:37

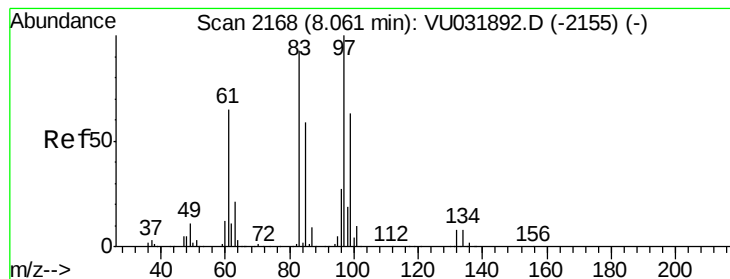
Tgt Ion: 75 Resp: 623687

Ion Ratio Lower Upper

75 100

77 31.3 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 46.588 ug/L

RT: 8.06 min Scan# 2168

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

Tgt Ion: 97 Resp: 444767

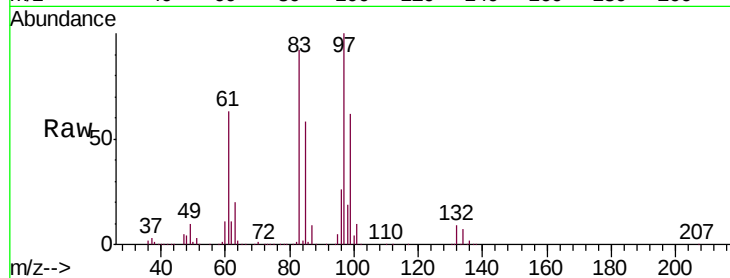
Ion Ratio Lower Upper

97 100

99 62.0 43.0 80.0

83 92.4 63.6 118.2

85 57.6 40.5 75.3



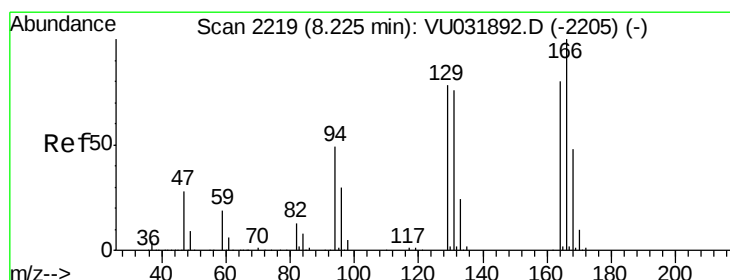
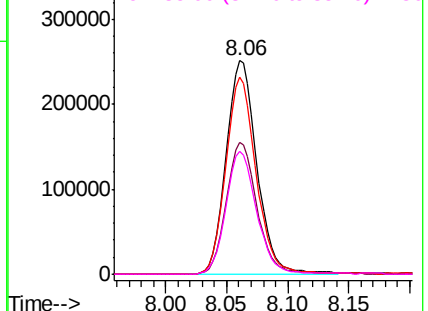
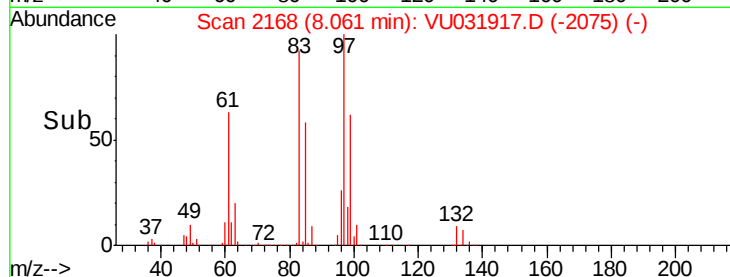
Abundance

Ion 97.00 (96.70 to 97.70): VU031892.D (-2155) (-)

Ion 99.00 (98.70 to 99.70): VU031892.D (-2155) (-)

Ion 83.00 (82.70 to 83.70): VU031892.D (-2155) (-)

Ion 85.00 (84.70 to 85.70): VU031892.D (-2155) (-)



#46

Tetrachloroethene

Concen: 46.070 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Tgt Ion: 164 Resp: 310559

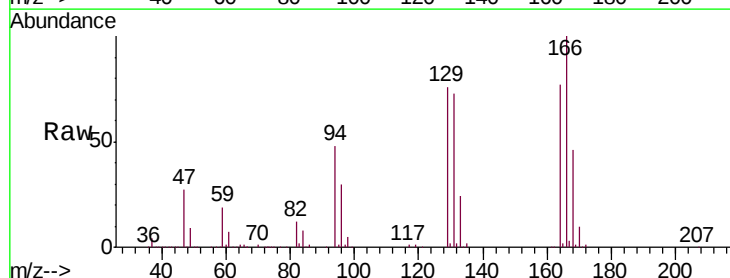
Ion Ratio Lower Upper

164 100

129 98.3 71.5 132.9

131 94.5 69.0 128.2

166 129.4 93.7 173.9



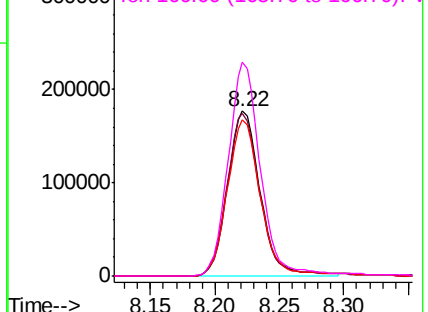
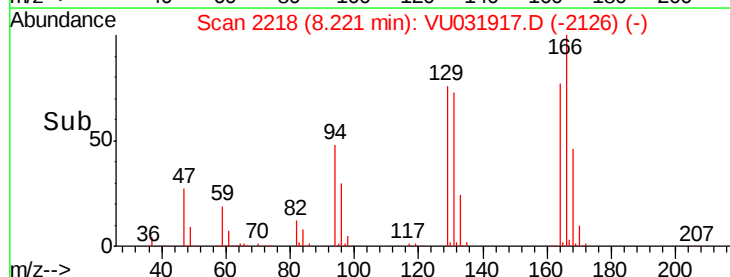
Abundance

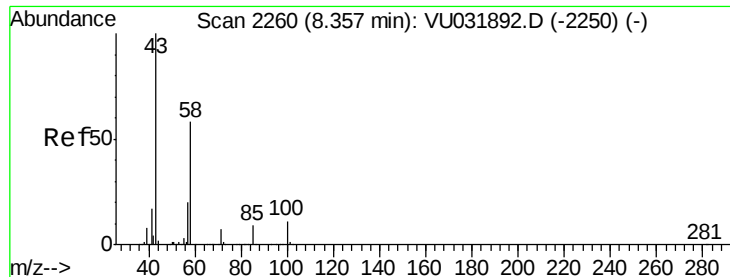
Ion 164.00 (163.70 to 164.70): VU031892.D (-2205) (-)

Ion 129.00 (128.70 to 129.70): VU031892.D (-2205) (-)

Ion 131.00 (130.70 to 131.70): VU031892.D (-2205) (-)

Ion 166.00 (165.70 to 166.70): VU031892.D (-2205) (-)

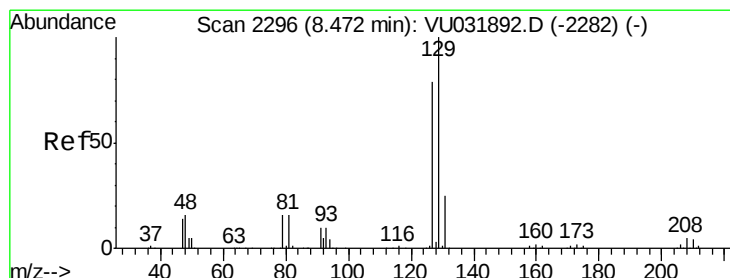
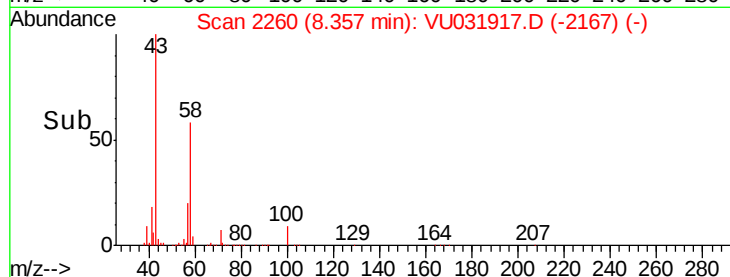
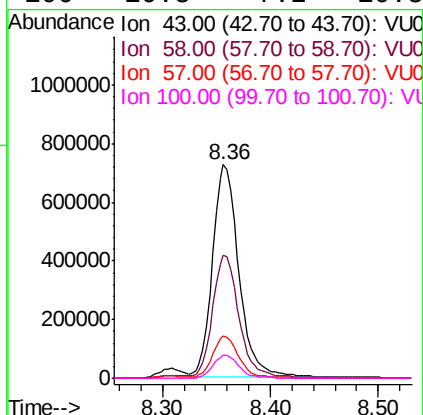
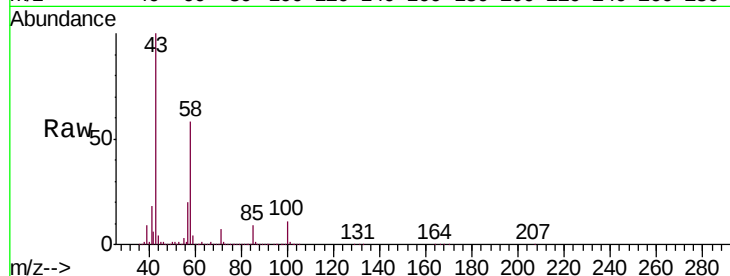




#48
2-Hexanone
Concen: 85.707 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU031917.D
Acq: 11 May 2019 09:37

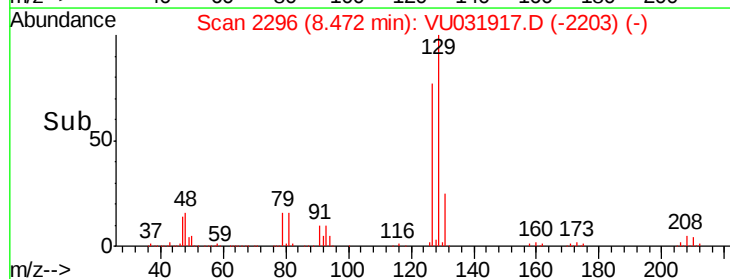
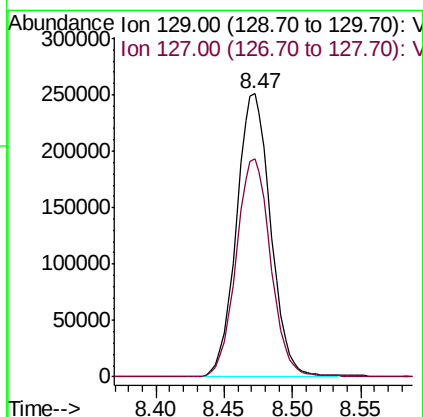
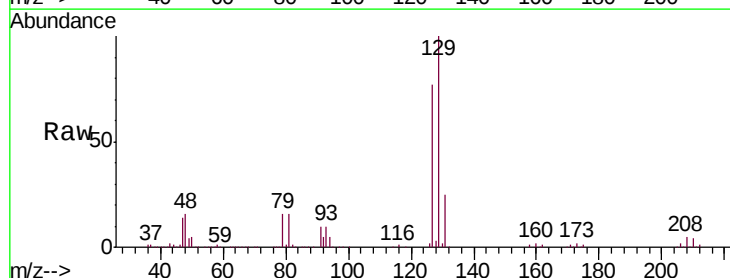
Instrument :
MSVOA_U
ClientSampled :
VSTD05042

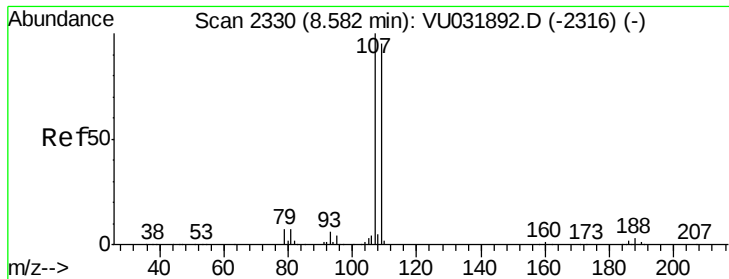
Tgt Ion: 43 Resp: 1235049
Ion Ratio Lower Upper
43 100
58 57.6 42.1 63.1
57 19.9 14.6 22.0
100 10.8 7.2 10.8#



#49
Dibromochloromethane
Concen: 44.078 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031917.D
Acq: 11 May 2019 09:37

Tgt Ion: 129 Resp: 437842
Ion Ratio Lower Upper
129 100
127 77.3 54.0 100.2





#50

1,2-Dibromoethane

Concen: 45.978 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

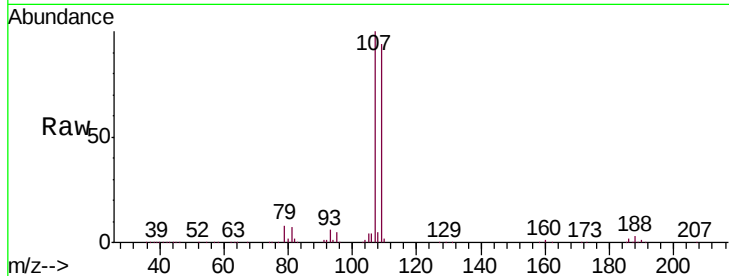
Tgt Ion:107 Resp: 463585

Ion Ratio Lower Upper

107 100

109 93.7 64.9 120.5

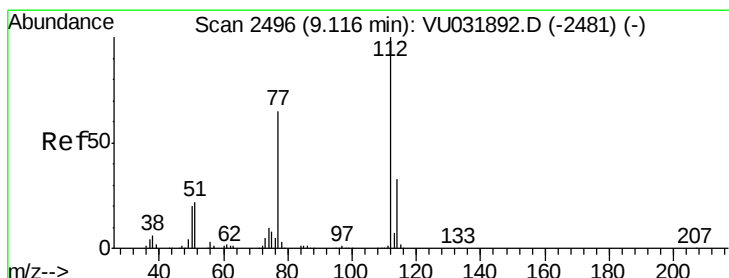
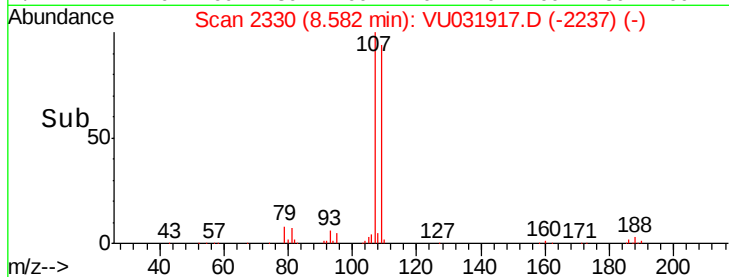
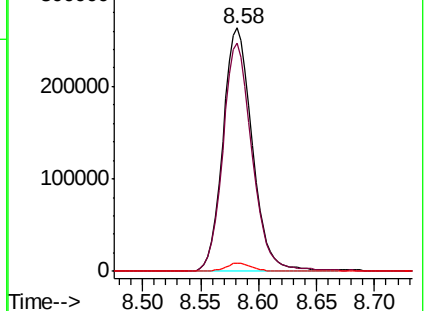
188 3.3 2.4 3.6



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: 47.990 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

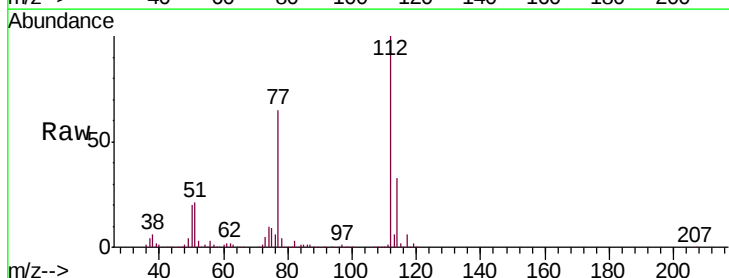
Tgt Ion:112 Resp: 1152352

Ion Ratio Lower Upper

112 100

114 32.6 23.3 43.3

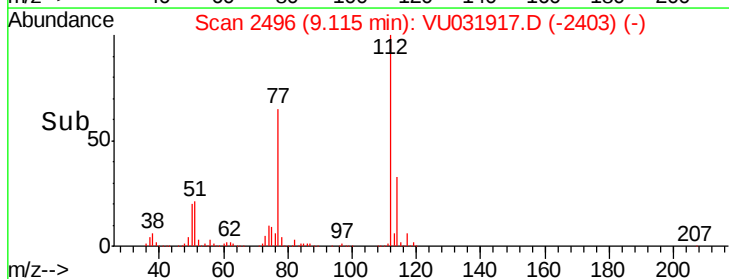
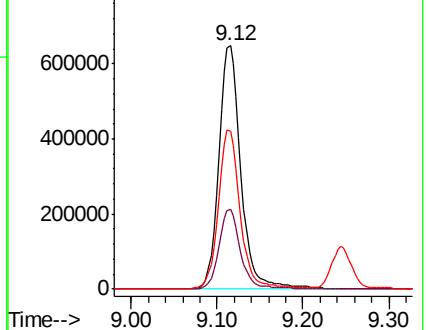
77 64.9 53.0 79.4

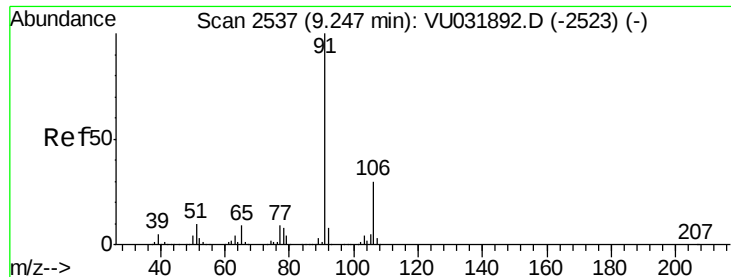


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 49.452 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

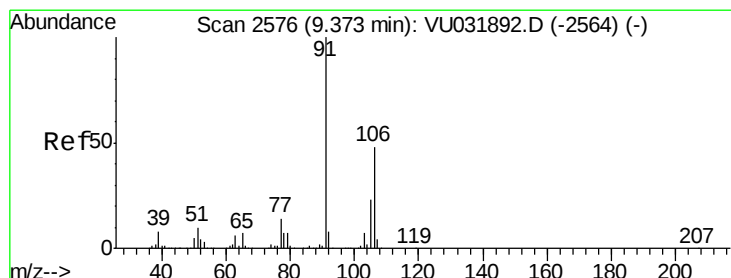
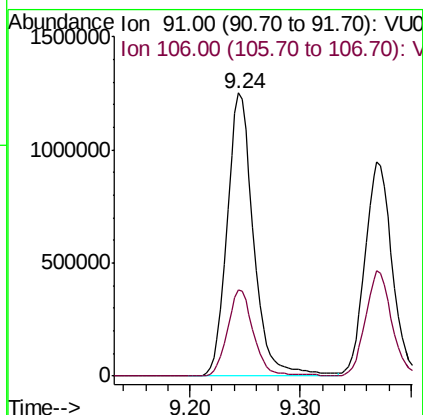
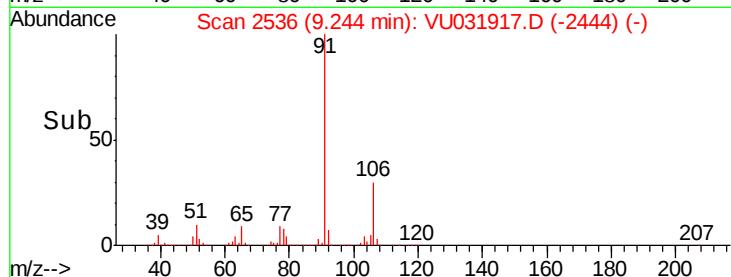
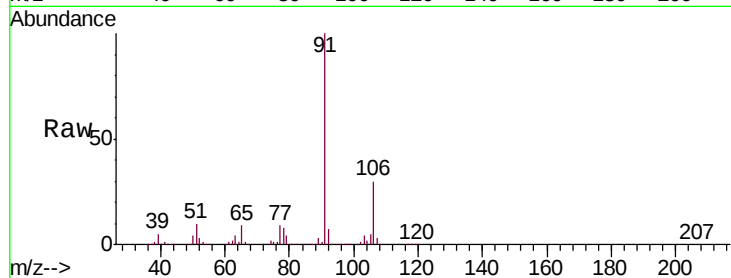
VSTD05042

Tgt Ion: 91 Resp: 2084386

Ion Ratio Lower Upper

91 100

106 30.3 20.4 37.8



#53

m,p-Xylene

Concen: 53.338 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU031917.D

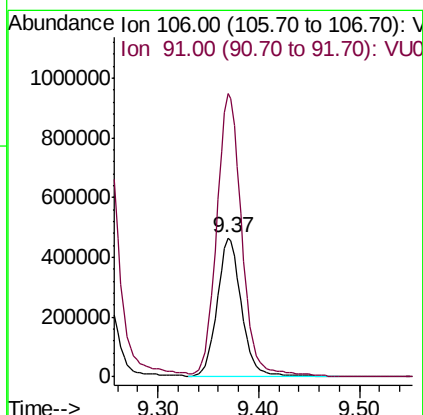
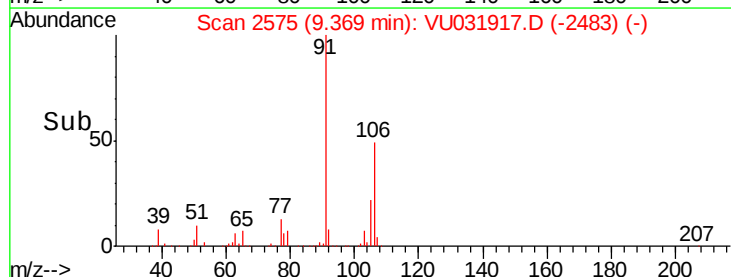
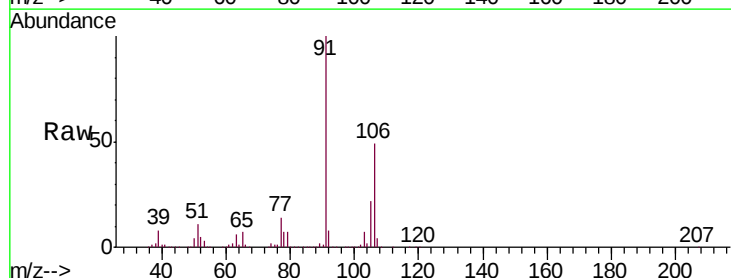
Acq: 11 May 2019 09:37

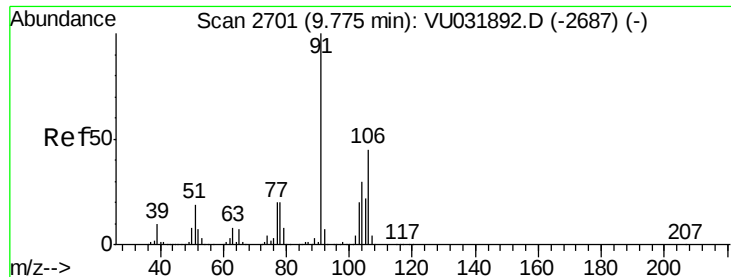
Tgt Ion: 106 Resp: 783302

Ion Ratio Lower Upper

106 100

91 203.2 152.2 282.6





#54

o-xylene

Concen: 52.922 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

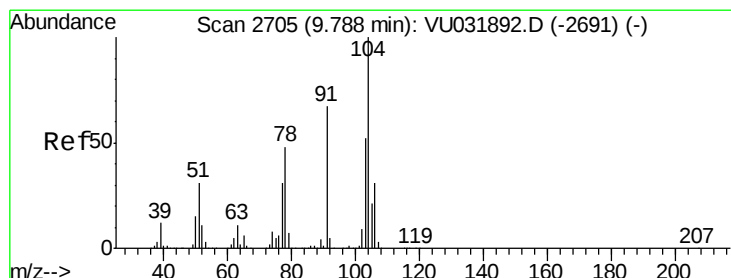
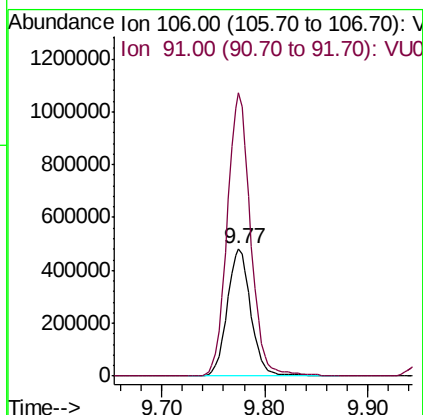
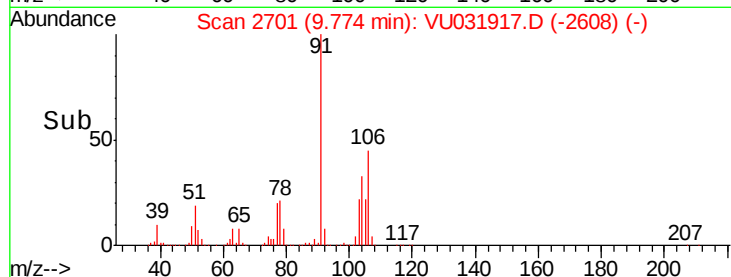
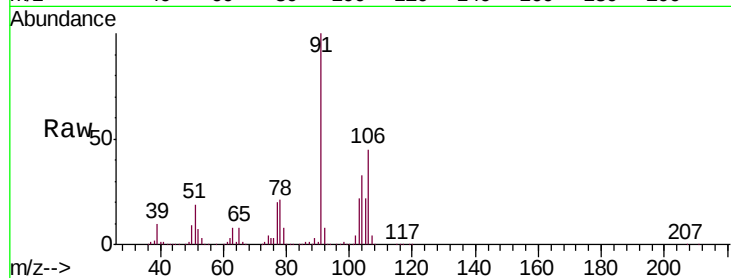
VSTD05042

Tgt Ion:106 Resp: 770506

Ion Ratio Lower Upper

106 100

91 221.7 163.2 303.2



#55

Styrene

Concen: 53.975 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU031917.D

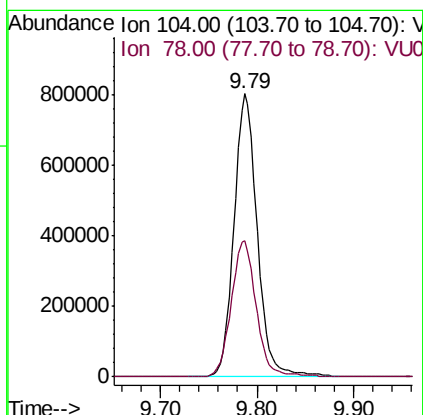
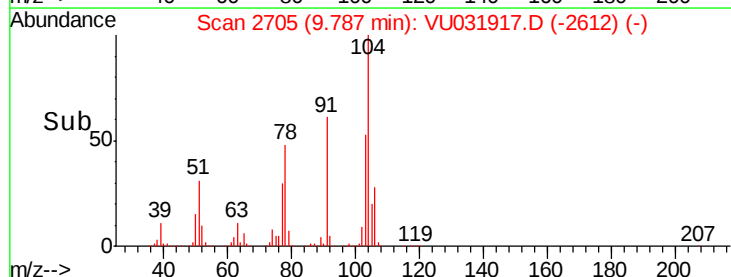
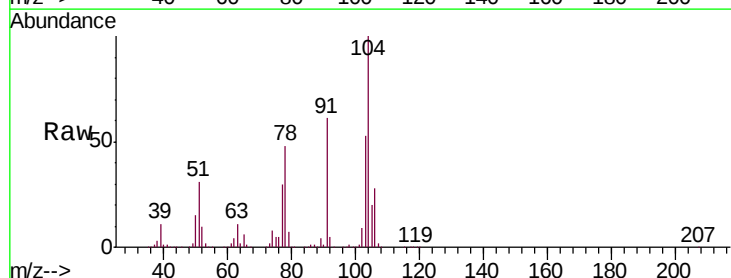
Acq: 11 May 2019 09:37

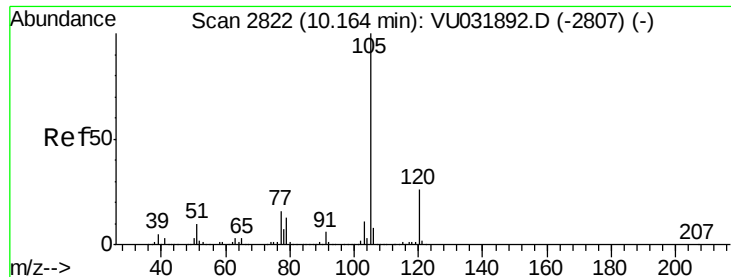
Tgt Ion:104 Resp: 1342584

Ion Ratio Lower Upper

104 100

78 47.9 35.4 65.7





#56

Isopropylbenzene

Concen: 50.554 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

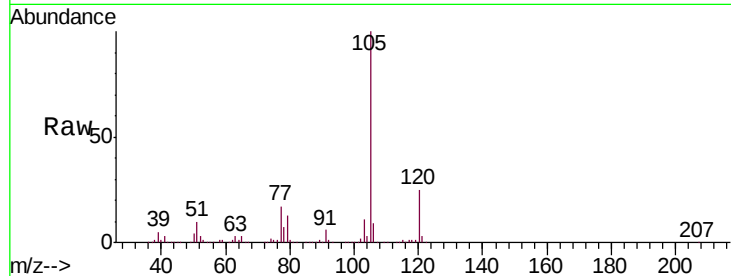
Tgt Ion:105 Resp: 1935467

Ion Ratio Lower Upper

105 100

120 25.7 20.1 30.1

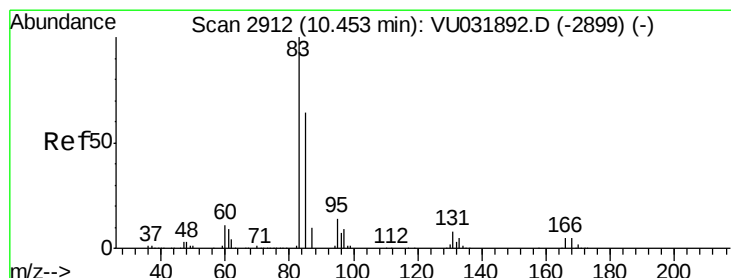
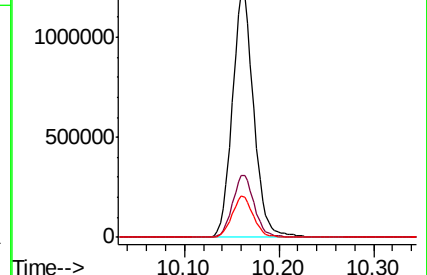
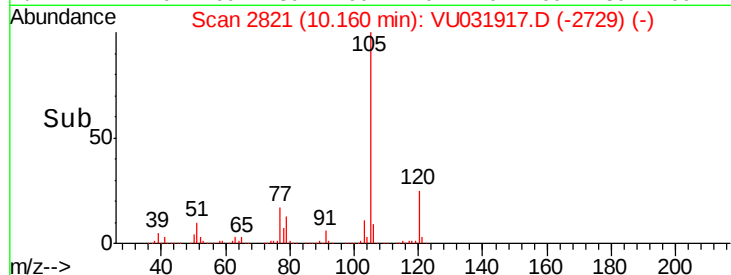
77 16.7 13.8 20.6



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: 47.787 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

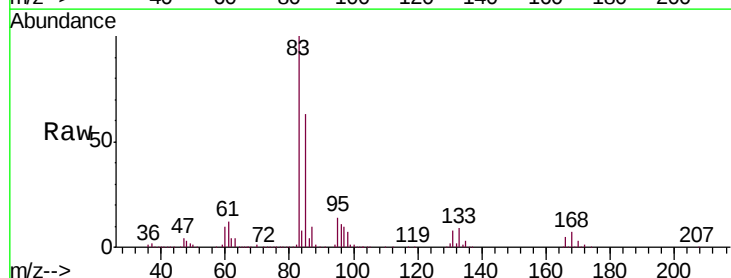
Tgt Ion: 83 Resp: 809542

Ion Ratio Lower Upper

83 100

85 63.5 46.0 85.4

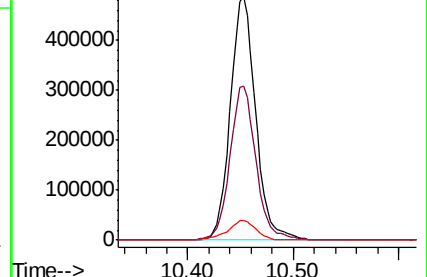
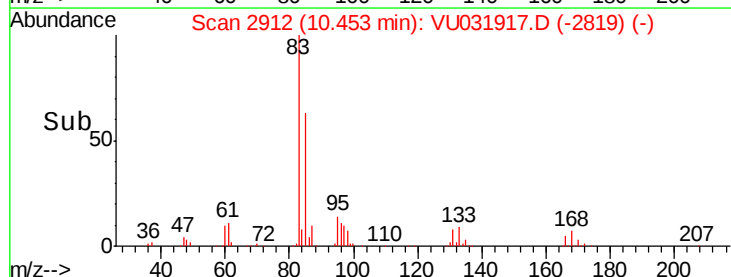
131 8.1 7.3 10.9

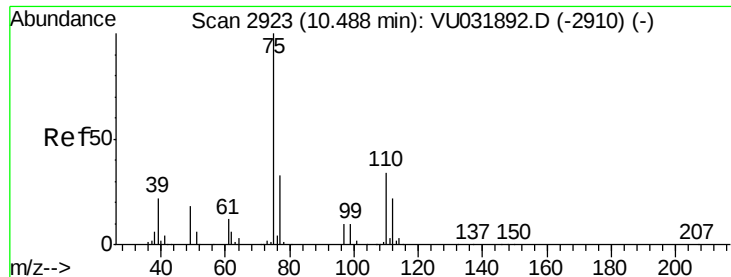


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

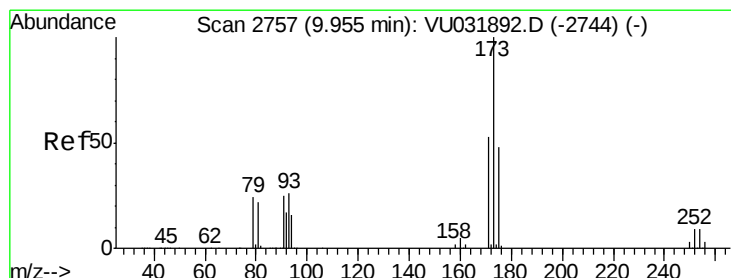
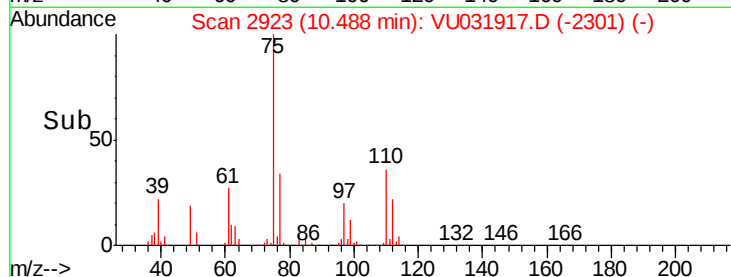
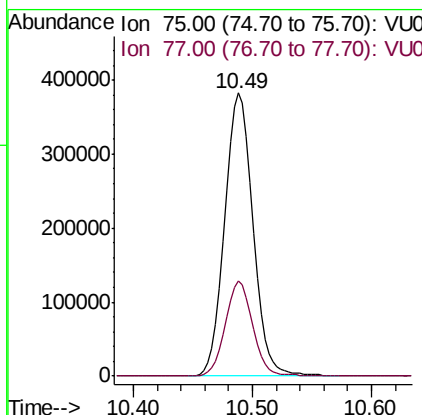
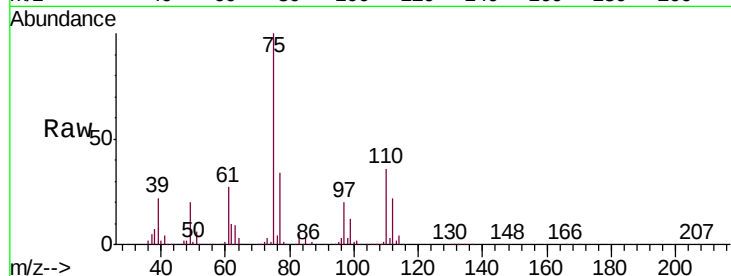




#59
 1,2,3-Trichloropropane
 Concen: 45.889 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU031917.D
 Acq: 11 May 2019 09:37

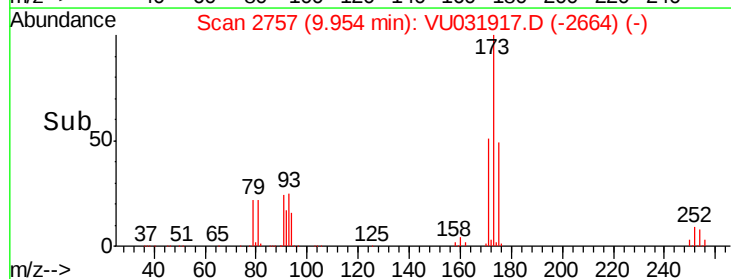
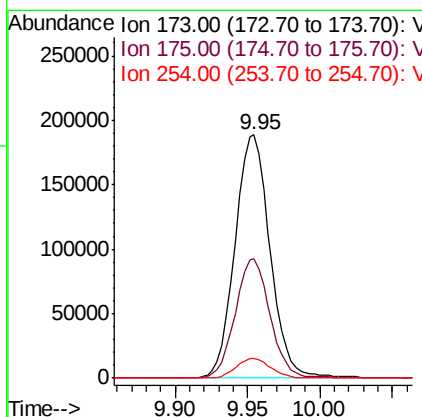
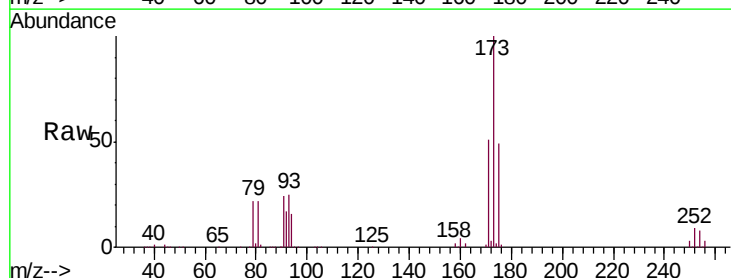
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

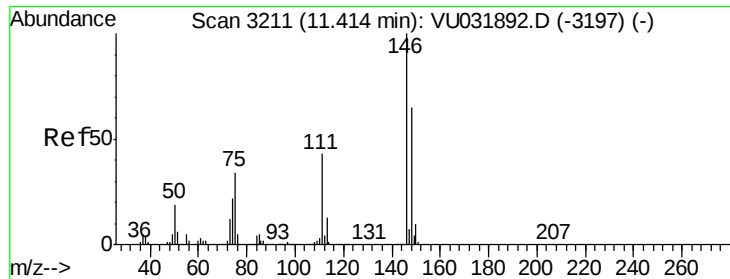
Tgt Ion: 75 Resp: 630063
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.9 38.9



#61
 Bromoform
 Concen: 43.105 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU031917.D
 Acq: 11 May 2019 09:37

Tgt Ion: 173 Resp: 316684
 Ion Ratio Lower Upper
 173 100
 175 48.4 38.3 57.5
 254 8.0 6.6 9.8

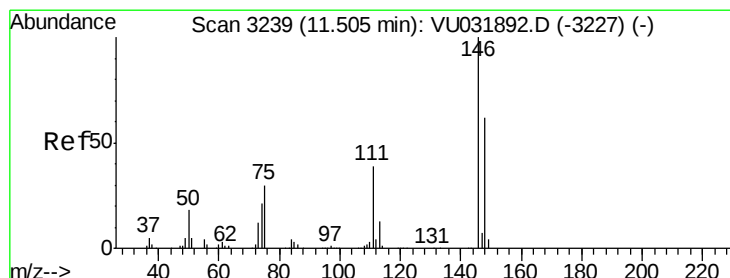
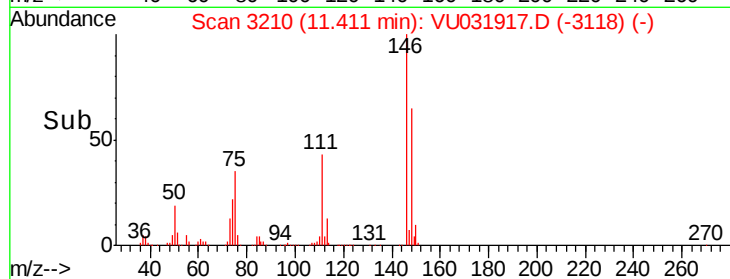
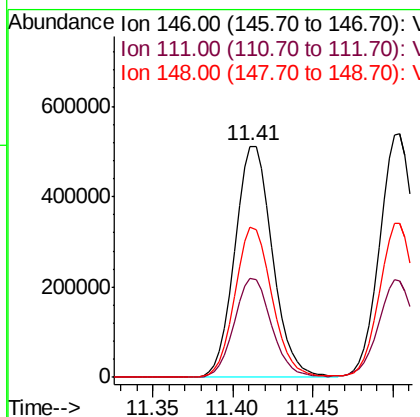
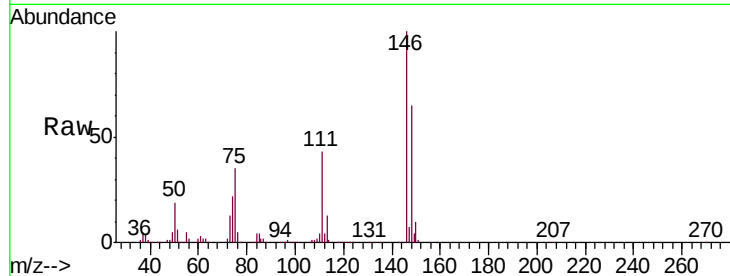




#62
 1,3-Dichlorobenzene
 Concen: 49.860 ug/L
 RT: 11.41 min Scan# 3210
 Delta R.T. -0.00 min
 Lab File: VU031917.D
 Acq: 11 May 2019 09:37

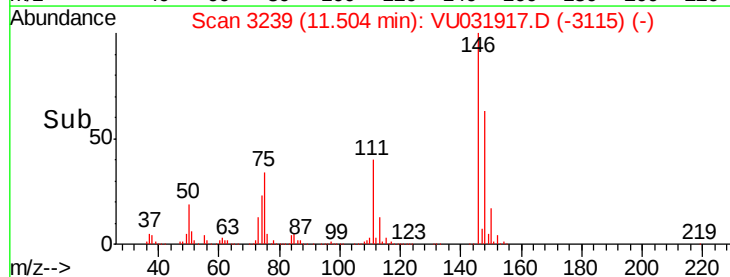
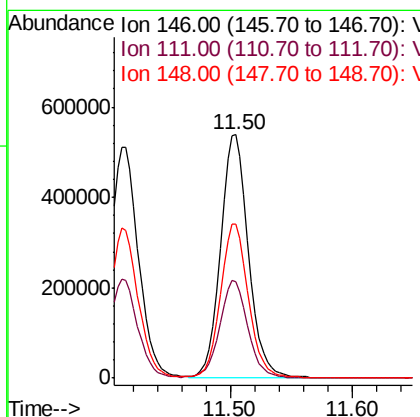
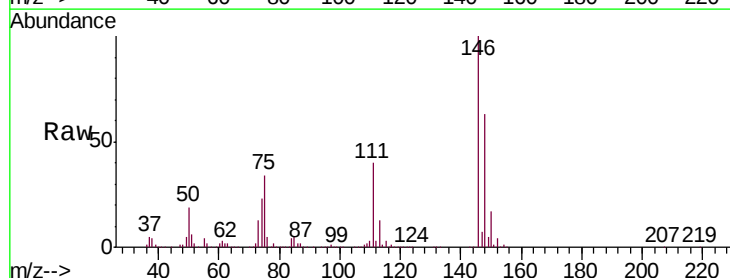
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

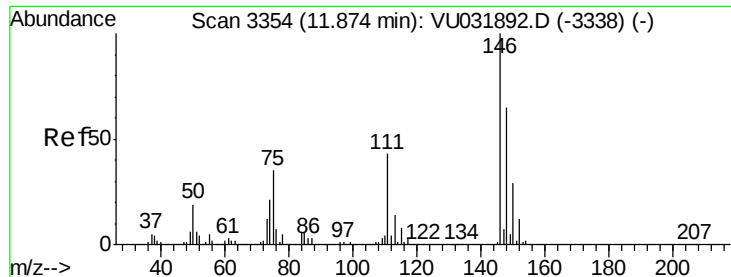
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.1	29.8	55.4
148	64.8	45.1	83.9



#63
 1,4-Dichlorobenzene
 Concen: 50.711 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU031917.D
 Acq: 11 May 2019 09:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.8	28.2	52.4
148	63.4	45.4	84.4





#65

1,2-Dichlorobenzene

Concen: 50.037 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

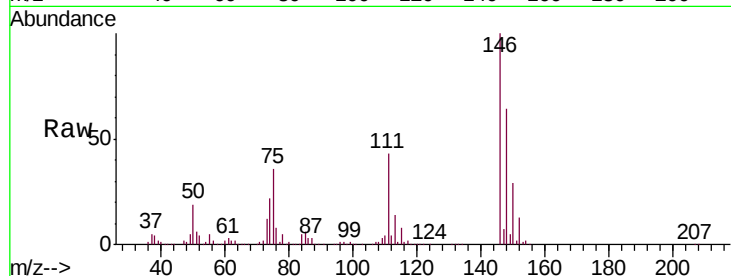
Tgt Ion:146 Resp: 872450

Ion Ratio Lower Upper

146 100

111 43.3 35.9 53.9

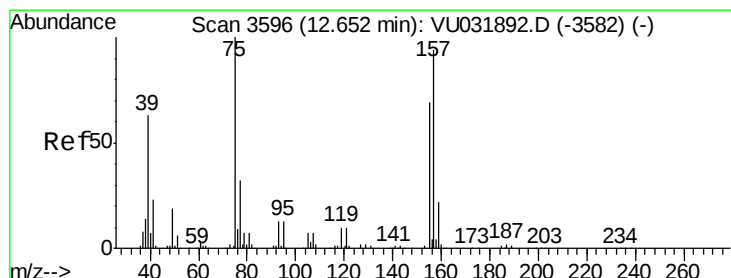
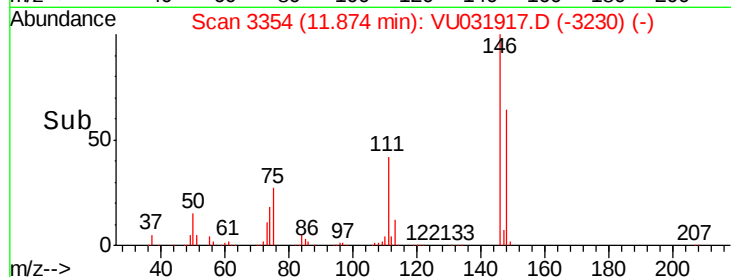
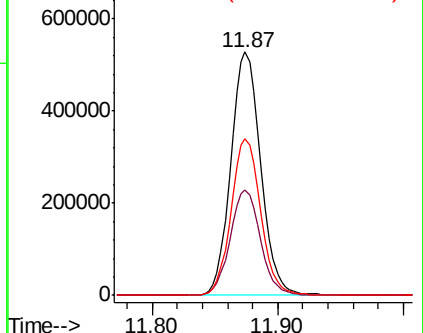
148 64.4 50.5 75.7



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: 40.476 ug/L

RT: 12.65 min Scan# 3595

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

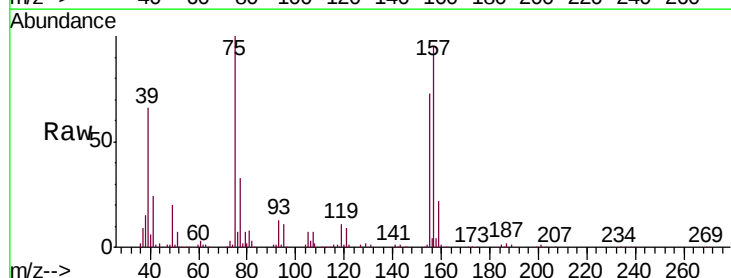
Tgt Ion: 75 Resp: 163796

Ion Ratio Lower Upper

75 100

155 73.0 54.0 81.0

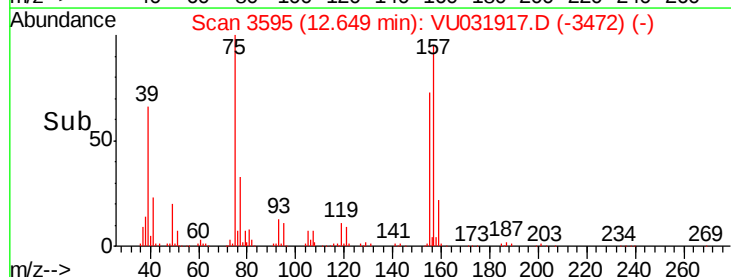
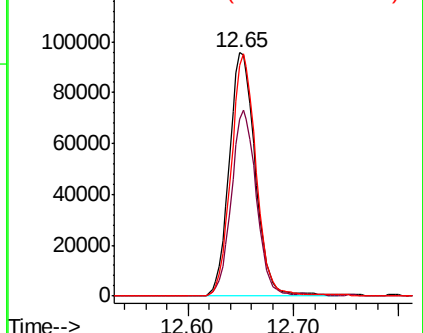
157 94.7 69.1 103.7

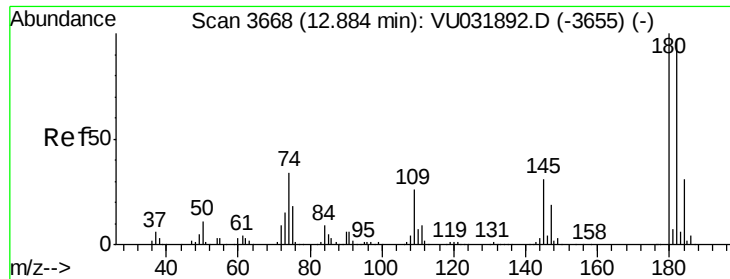


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

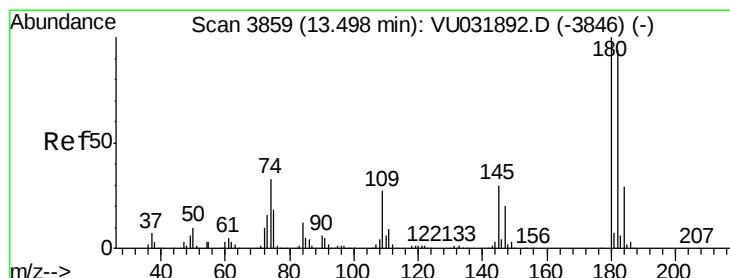
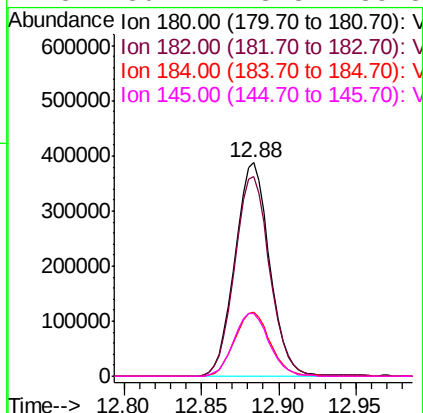
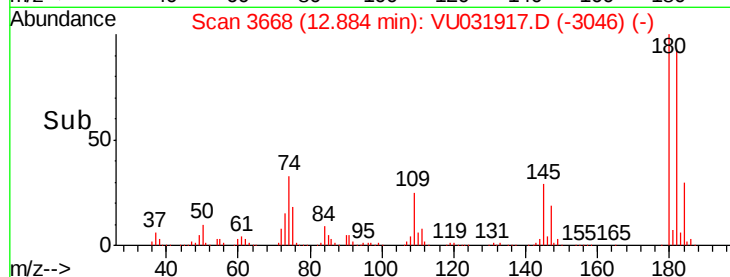
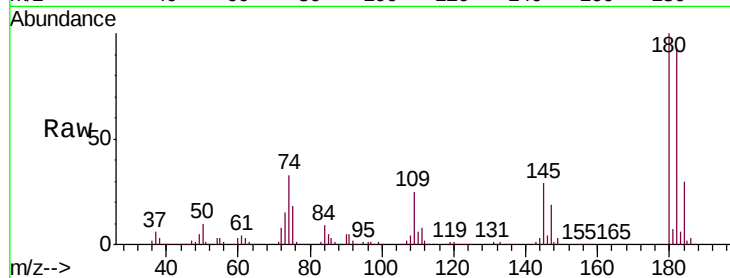




#67
 1,3,5-Trichlorobenzene
 Concen: 49.141 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU031917.D
 Acq: 11 May 2019 09:37

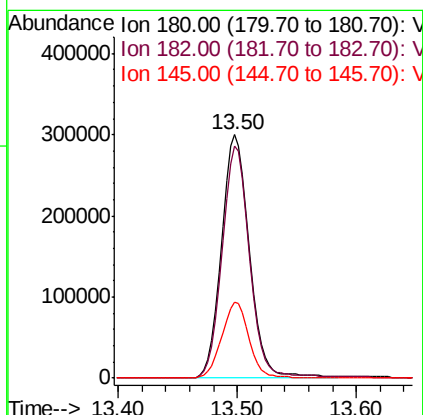
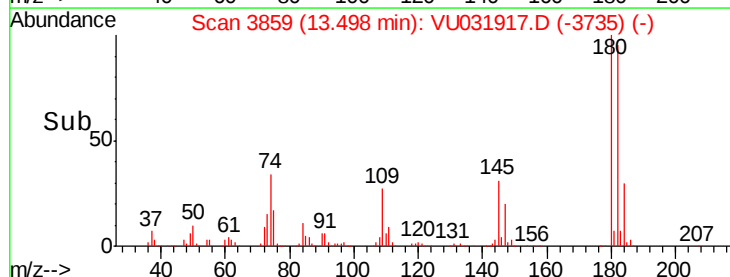
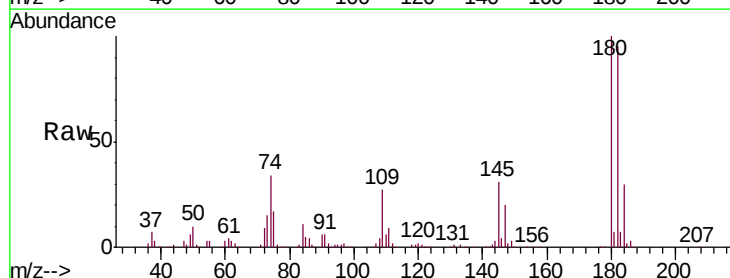
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

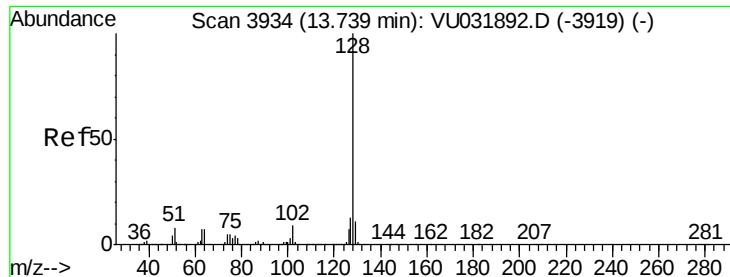
Tgt Ion:180 Resp: 603828
 Ion Ratio Lower Upper
 180 100
 182 95.0 77.3 115.9
 184 30.8 24.4 36.6
 145 30.1 23.8 35.8



#68
 1,2,4-trichlorobenzene
 Concen: 50.240 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU031917.D
 Acq: 11 May 2019 09:37

Tgt Ion:180 Resp: 488727
 Ion Ratio Lower Upper
 180 100
 182 92.8 75.8 113.8
 145 30.6 24.5 36.7





#69

Naphthalene

Concen: 50.606 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

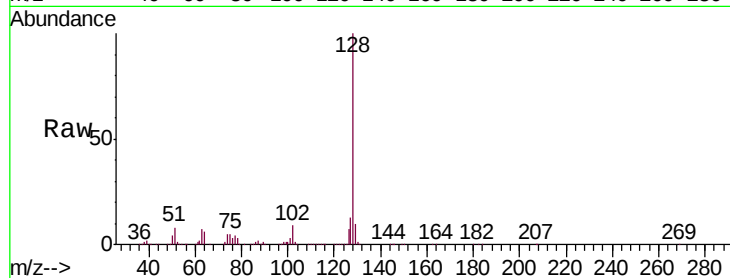
Tgt Ion:128 Resp: 1678454

Ion Ratio Lower Upper

128 100

127 12.9 10.6 15.8

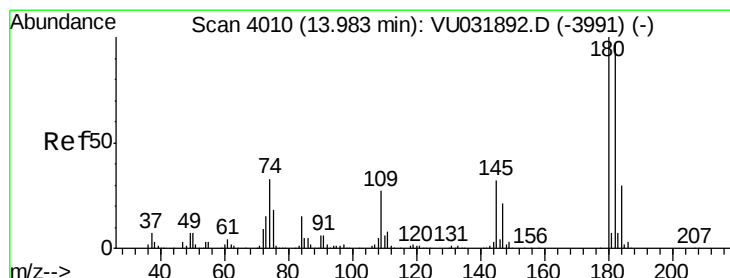
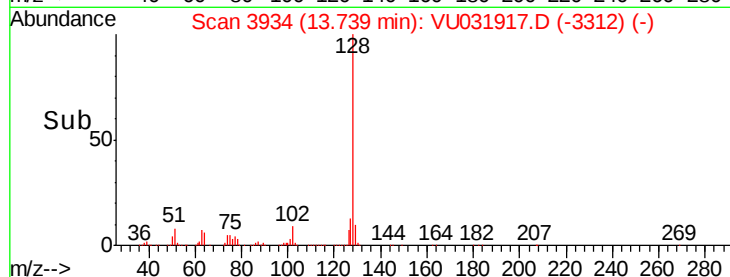
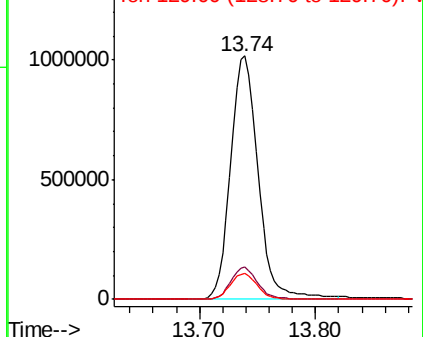
129 10.6 8.7 13.1



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: 47.538 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU031917.D

Acq: 11 May 2019 09:37

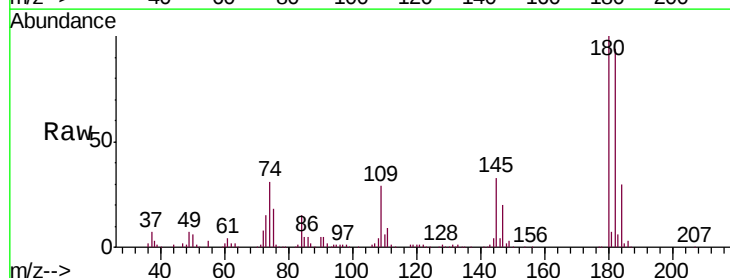
Tgt Ion:180 Resp: 526489

Ion Ratio Lower Upper

180 100

182 94.8 76.1 114.1

145 32.5 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

