

Data File : VU036045.D
Acq On : 09 Dec 2019 13:38
Operator : JC/MD
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00526

Quant Time: Dec 10 01:40:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 10 01:36:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	320194	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	326913	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	164131	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	123386	4.32	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.40%
7) Chloroethane-d5	1.93	69	129692	4.33	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.60%
11) 1,1-Dichloroethene-d2	2.59	63	240683	4.61	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.20%
20) 2-Butanone-d5	4.70	46	226501	46.58	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.16%
24) Chloroform-d	5.11	84	206965	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.40%
26) 1,2-Dichloroethane-d4	5.75	65	102777	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.80%
32) Benzene-d6	5.77	84	420352	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.60%
36) 1,2-Dichloropropane-d6	6.73	67	119849	4.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.00%
41) Toluene-d8	7.93	98	403945	5.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.80%
43) trans-1,3-Dichloropropene-	8.21	79	53282	5.12	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.40%
46) 2-Hexanone-d5	8.68	63	201559	53.56	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.12%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	102612	4.47	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.40%
64) 1,2-Dichlorobenzene-d4	12.22	152	150774	4.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	138352	4.395	ug/L 96
3) Chloromethane	1.54	50	126339	4.111	ug/L 98
5) Vinyl chloride	1.62	62	139105	4.339	ug/L 100
6) Bromomethane	1.87	94	107240	4.162	ug/L 100
8) Chloroethane	1.95	64	100954	4.139	ug/L 94
9) Trichlorofluoromethane	2.16	101	252131	4.516	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	137295	4.432	ug/L 99
12) 1,1-Dichloroethene	2.61	96	129602	4.652	ug/L 98
13) Acetone	2.68	43	217746	35.272	ug/L 98
14) Carbon disulfide	2.82	76	384780	4.822	ug/L 98
15) Methyl Acetate	3.00	43	34604	3.797	ug/L 96
16) Methylene chloride	3.08	84	122571	3.789	ug/L 96
17) Methyl tert-butyl Ether	3.42	73	224765	4.686	ug/L 98
18) trans-1,2-Dichloroethene	3.39	96	107246	4.510	ug/L 96
19) 1,1-Dichloroethane	3.92	63	190150	4.456	ug/L 97
21) 2-Butanone	4.77	43	258162	41.781	ug/L 100
22) cis-1,2-Dichloroethene	4.72	96	116277	4.659	ug/L 99

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Quant Title : TRACE VOA SOM01.0
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	55830	4.327	ug/L	98
25) Chloroform	5.13	83	203952	4.288	ug/L	96
27) 1,2-Dichloroethane	5.84	62	122402	4.356	ug/L	99
29) 1,1,1-Trichloroethane	5.36	97	177752	4.824	ug/L	98
30) Cyclohexane	5.43	56	149124	5.155	ug/L	98
31) Carbon tetrachloride	5.57	117	163867	4.918	ug/L	98
33) Benzene	5.82	78	444496	4.975	ug/L	100
34) Trichloroethene	6.58	95	118740	5.005	ug/L	96
35) Methylcyclohexane	6.80	83	170237	5.349	ug/L	98
37) 1,2-Dichloropropane	6.83	63	109144	4.870	ug/L	99
38) Bromodichloromethane	7.14	83	142707	4.737	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	161962	5.317	ug/L	100
40) 4-Methyl-2-pentanone	7.84	43	586504	50.101	ug/L	100
42) Toluene	8.00	91	494936	5.165	ug/L	96
44) trans-1,3-Dichloropropene	8.24	75	134464	5.106	ug/L	96
45) 1,1,2-Trichloroethane	8.43	97	85142	4.825	ug/L	95
47) Tetrachloroethene	8.58	164	106955	4.742	ug/L	96
48) 2-Hexanone	8.73	43	452563	53.890	ug/L	98
49) Dibromochloromethane	8.84	129	109442	4.673	ug/L	96
50) 1,2-Dibromoethane	8.96	107	82710	4.847	ug/L	97
51) Chlorobenzene	9.47	112	318717	4.772	ug/L	99
52) Ethylbenzene	9.60	91	493523	4.916	ug/L	99
53) m,p-Xylene	9.72	106	200693	5.021	ug/L	98
54) o-Xylene	10.13	106	192786	5.136	ug/L	95
55) Styrene	10.14	104	322577	5.011	ug/L	97
56) Isopropylbenzene	10.51	105	495024	4.998	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	101032	4.331	ug/L	98
59) 1,2,3-Trichloropropane	10.85	75	72419	4.520	ug/L	97
61) Bromoform	10.32	173	66783	4.089	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	262468	4.889	ug/L	97
63) 1,4-Dichlorobenzene	11.86	146	258167	4.881	ug/L	99
65) 1,2-Dichlorobenzene	12.24	146	247197	4.660	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	13349	4.006	ug/L	93
67) 1,3,5-Trichlorobenzene	13.24	180	185513	5.100	ug/L	97
68) 1,2,4-trichlorobenzene	13.86	180	102506	5.307	ug/L	99
69) Naphthalene	14.11	128	92486	4.975	ug/L	100
70) 1,2,3-Trichlorobenzene	14.35	180	99041	5.348	ug/L	99

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

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ClientSampleId :
VSTD00526

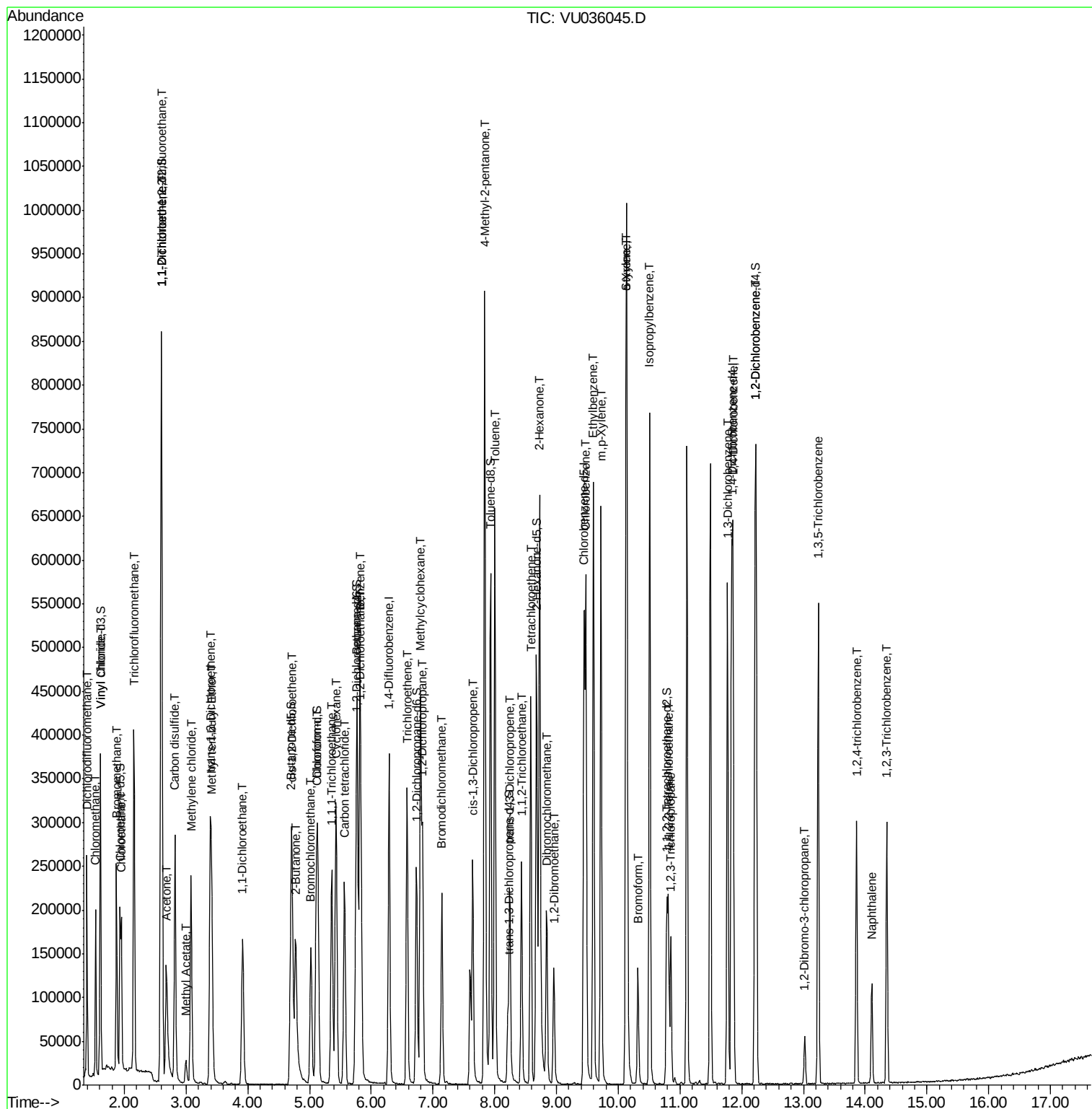
Quant Time: Dec 10 01:40:59 2019

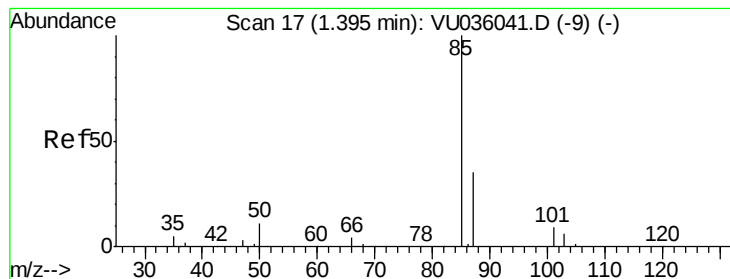
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMUTR120919WMA.M

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#2

Dichlorodifluoromethane

Concen: 4.395 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

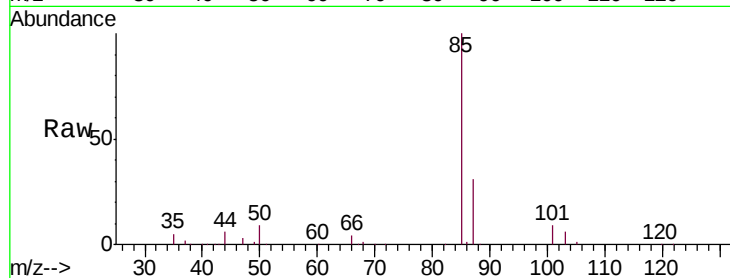
VSTD00526

Tgt Ion: 85 Resp: 138352

Ion Ratio Lower Upper

85 100

87 31.6 27.0 40.4



Abundance Ion 85.00 (84.70 to 85.70): VU036041.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036041.D (-9) (-)

1.39

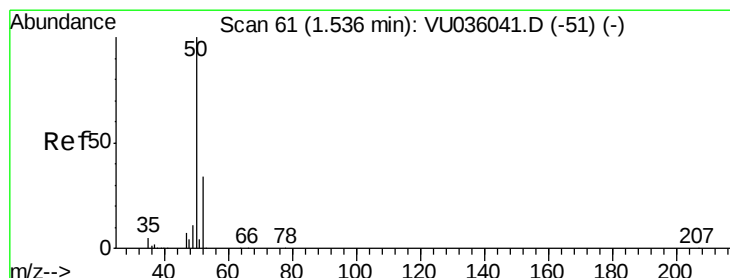
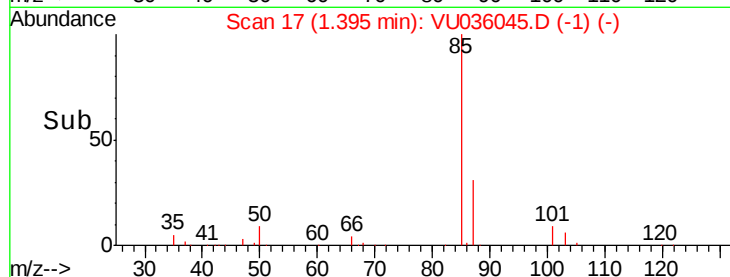
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 4.111 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036045.D

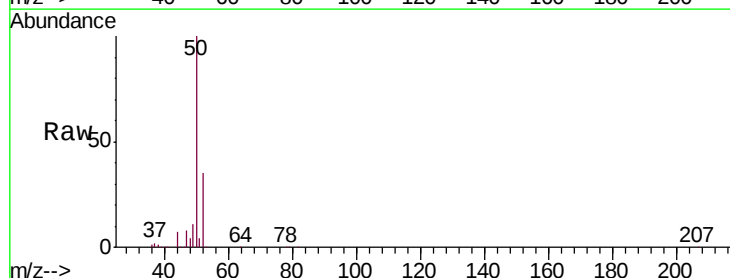
Acq: 09 Dec 2019 13:38

Tgt Ion: 50 Resp: 126339

Ion Ratio Lower Upper

50 100

52 35.0 23.6 43.8



Abundance Ion 50.05 (49.75 to 50.75): VU036041.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU036041.D (-51) (-)

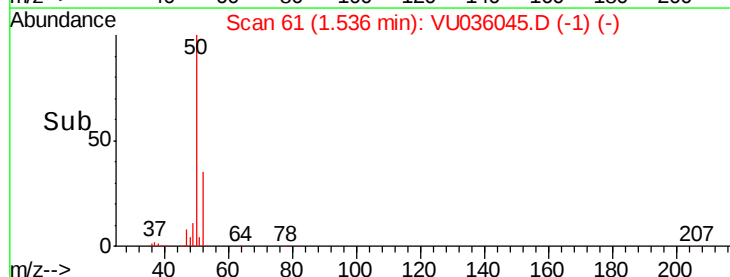
1.54

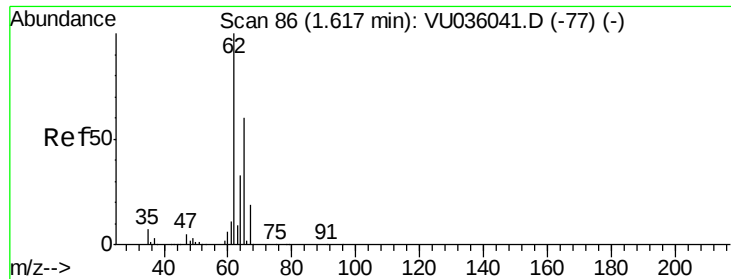
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 4.339 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

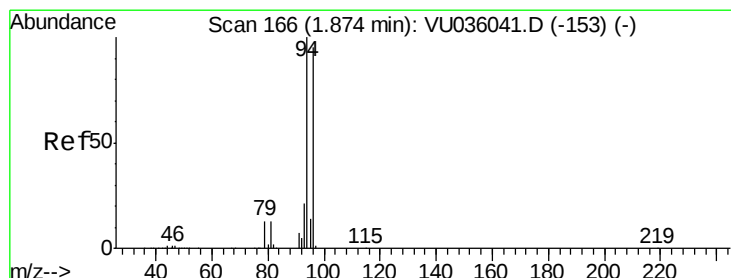
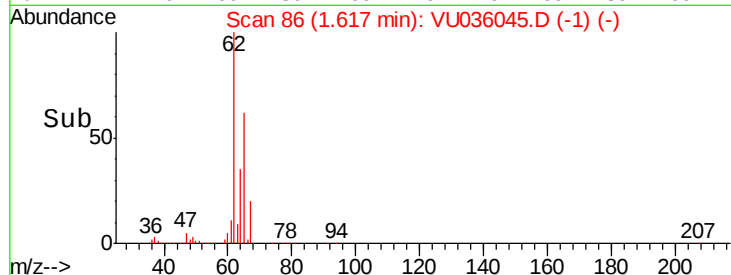
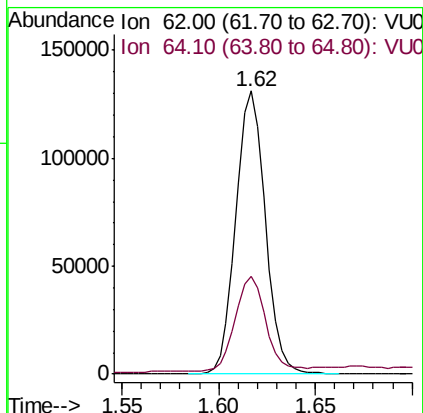
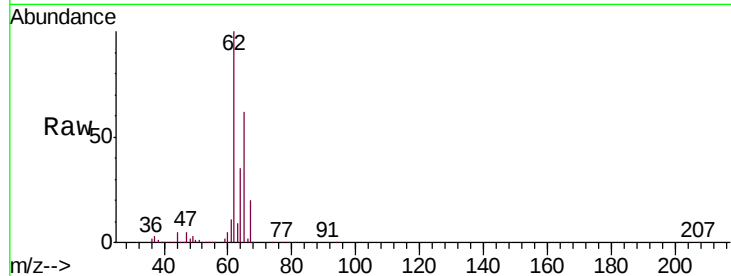
VSTD00526

Tgt Ion: 62 Resp: 139105

Ion Ratio Lower Upper

62 100

64 34.5 24.3 45.1



#6

Bromomethane

Concen: 4.162 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036045.D

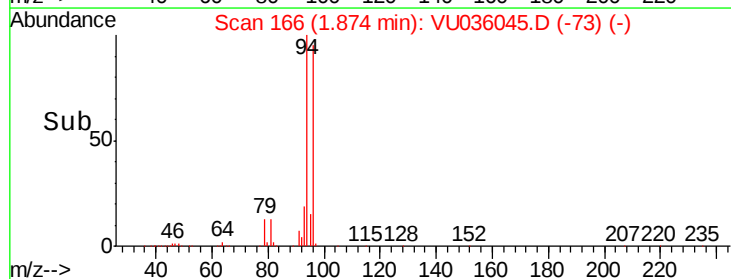
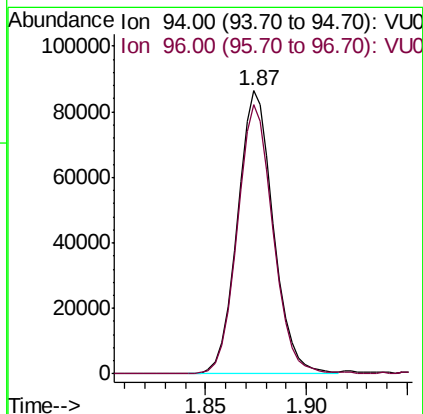
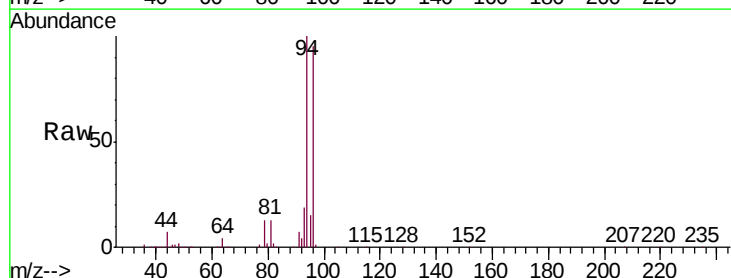
Acq: 09 Dec 2019 13:38

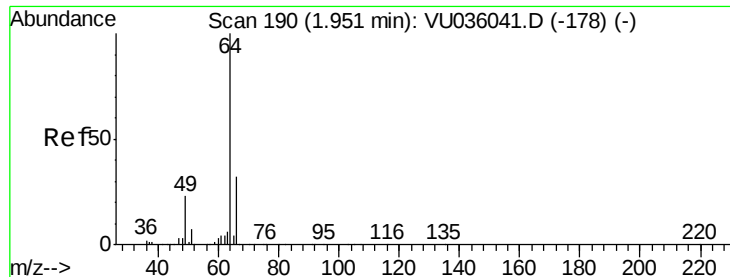
Tgt Ion: 94 Resp: 107240

Ion Ratio Lower Upper

94 100

96 95.1 66.8 124.2





#8

Chloroethane

Concen: 4.139 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

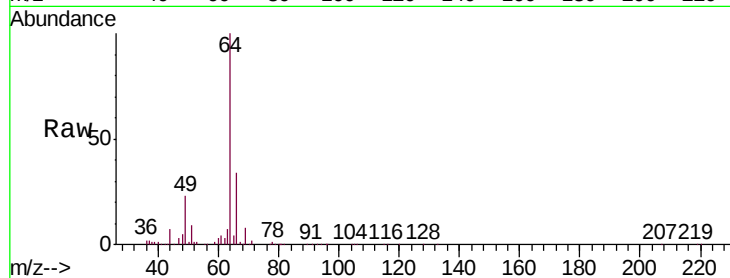
VSTD00526

Tgt Ion: 64 Resp: 100954

Ion Ratio Lower Upper

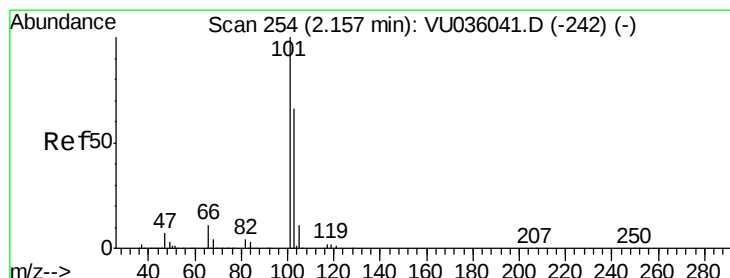
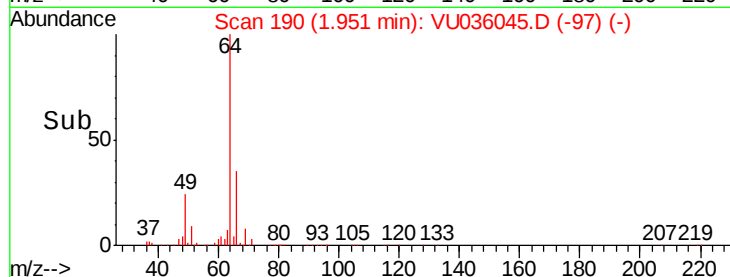
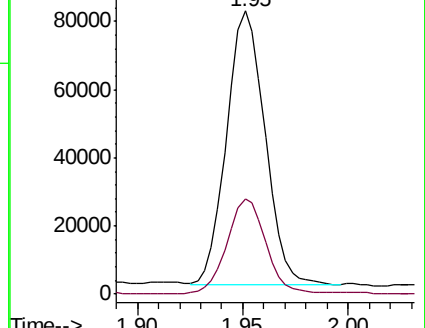
64 100

66 33.7 21.5 39.9



Abundance Ion 64.10 (63.80 to 64.80): VU036045.D (-178) (-)

Ion 66.05 (65.75 to 66.75): VU036045.D (-178) (-)



#9

Trichlorofluoromethane

Concen: 4.516 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU036045.D

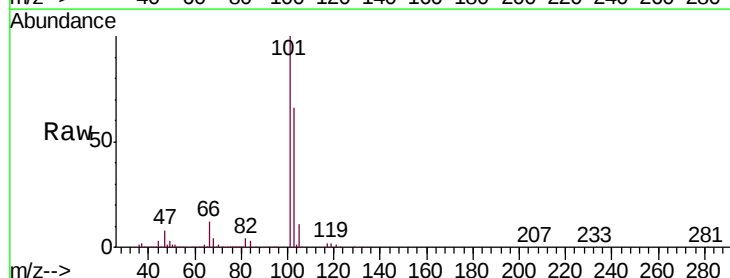
Acq: 09 Dec 2019 13:38

Tgt Ion: 101 Resp: 252131

Ion Ratio Lower Upper

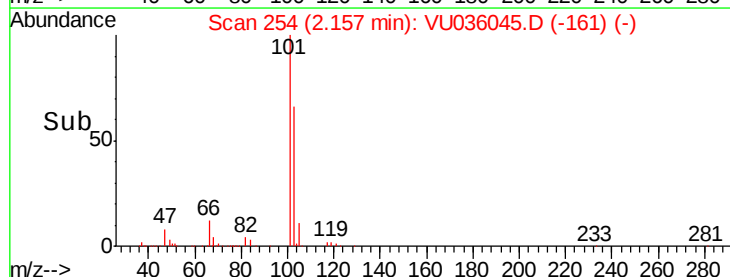
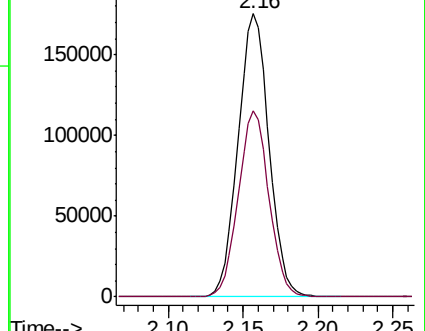
101 100

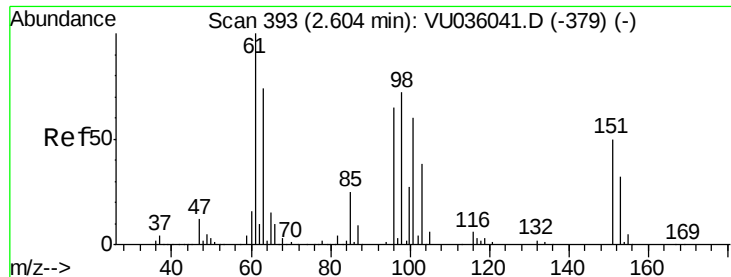
103 65.3 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): VU036045.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU036045.D (-242) (-)





#10

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

Concen: 4.432 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

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ClientSampleId :

VSTD00526

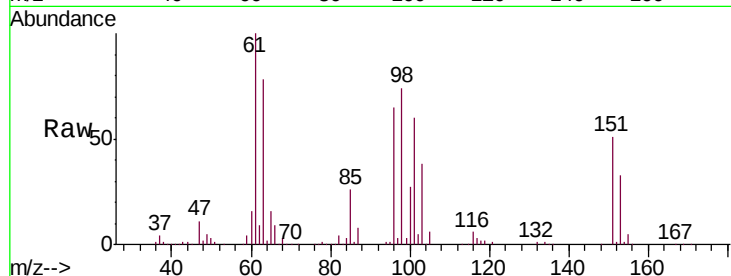
Tgt Ion: 101 Resp: 137295

Ion Ratio Lower Upper

101 100

85 42.1 33.1 49.7

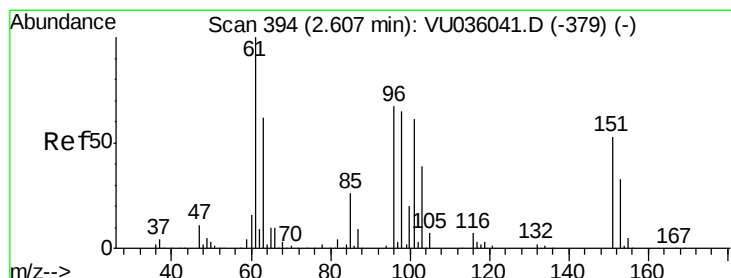
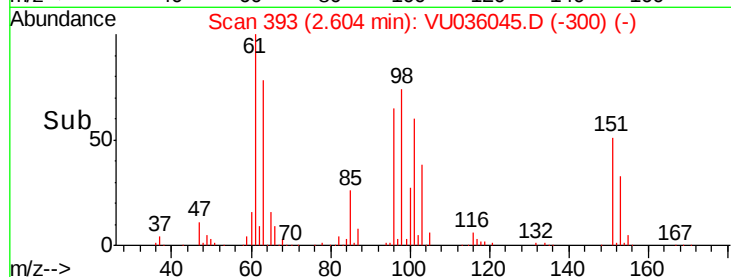
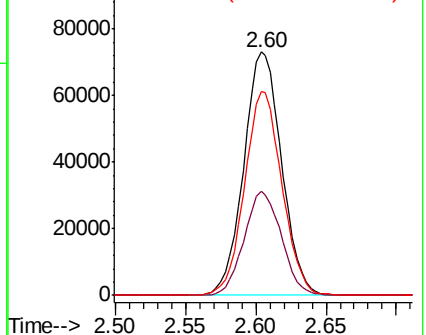
151 82.5 66.5 99.7



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: 4.652 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

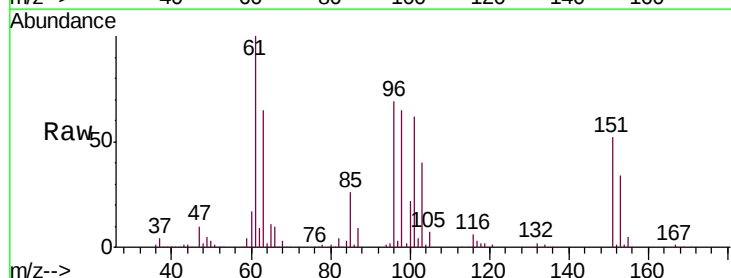
Tgt Ion: 96 Resp: 129602

Ion Ratio Lower Upper

96 100

61 145.3 104.3 193.7

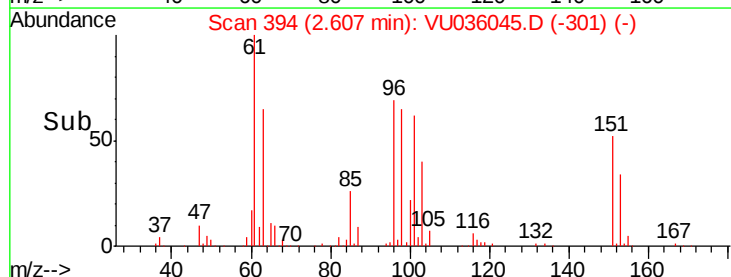
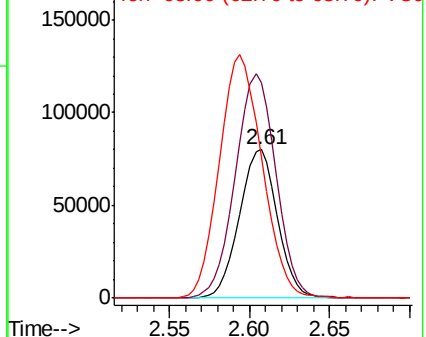
63 94.8 65.6 121.8

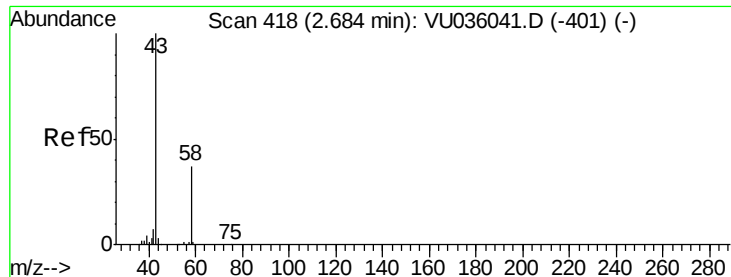


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 35.272 ug/L

RT: 2.68 min Scan# 417

Delta R.T. -0.00 min

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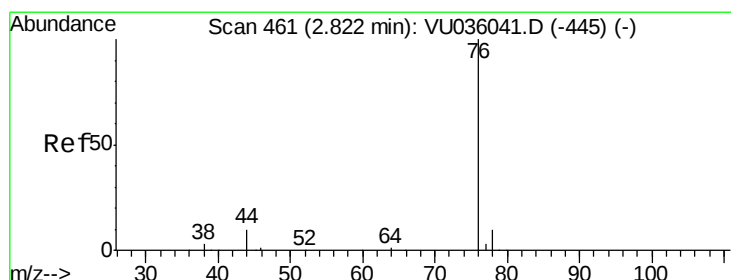
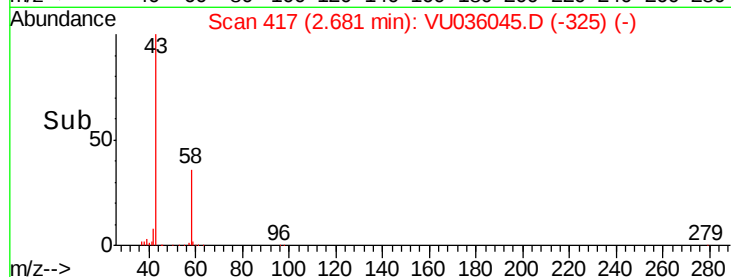
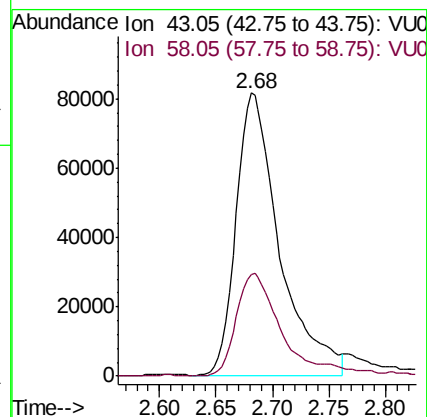
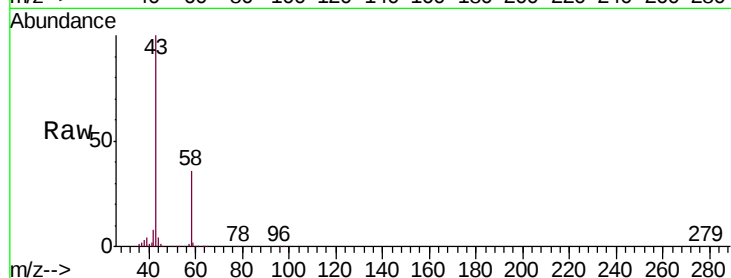
VSTD00526

Tgt Ion: 43 Resp: 217746

Ion Ratio Lower Upper

43 100

58 38.5 0.0 74.2



#14

Carbon disulfide

Concen: 4.822 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036045.D

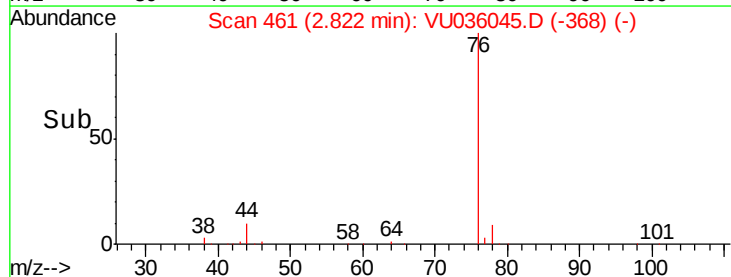
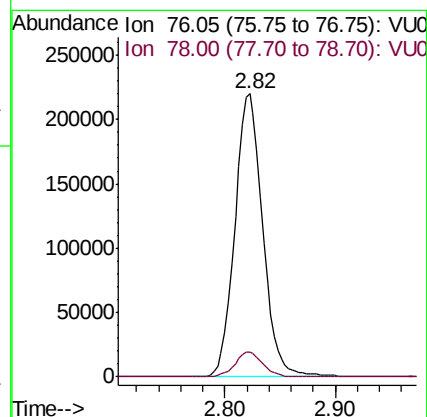
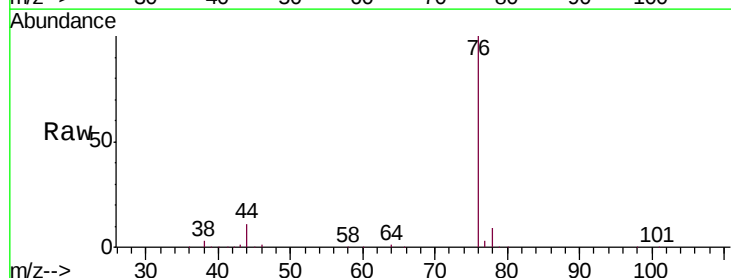
Acq: 09 Dec 2019 13:38

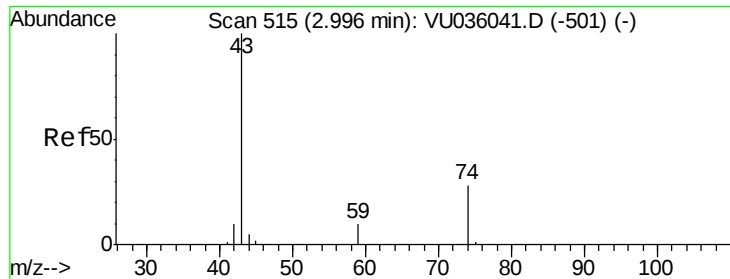
Tgt Ion: 76 Resp: 384780

Ion Ratio Lower Upper

76 100

78 8.8 7.7 11.5





#15

Methyl Acetate

Concen: 3.797 ug/L

RT: 3.00 min Scan# 516

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

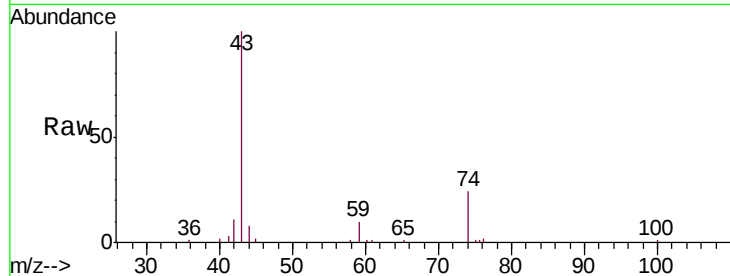
VSTD00526

Tgt Ion: 43 Resp: 34604

Ion Ratio Lower Upper

43 100

74 28.2 21.0 31.4



Abundance Ion 43.05 (42.75 to 43.75): VU036041.D (-501) (-)

Ion 74.05 (73.75 to 74.75): VU036041.D (-501) (-)

3.00

15000

10000

5000

0

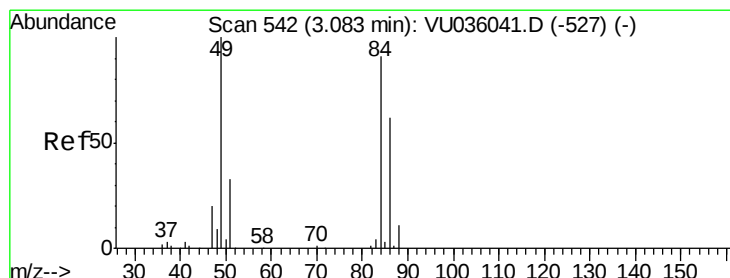
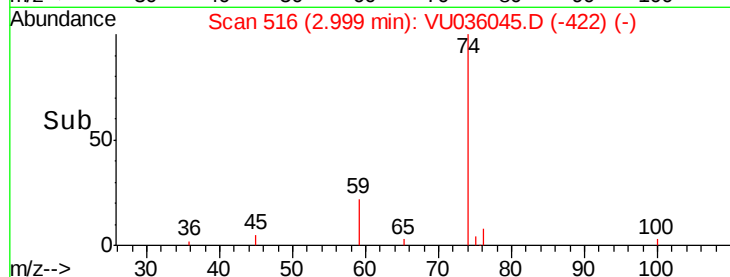
Time-->

2.90

2.95

3.00

3.05



#16

Methylene chloride

Concen: 3.789 ug/L

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

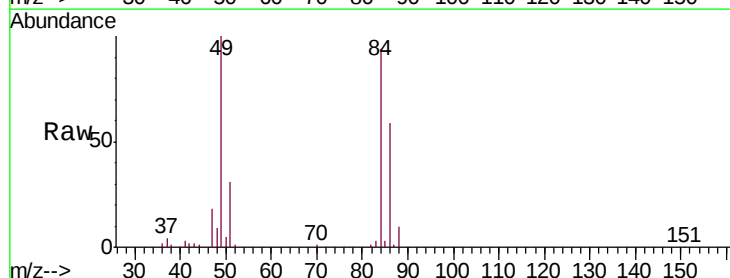
Tgt Ion: 84 Resp: 122571

Ion Ratio Lower Upper

84 100

86 63.0 47.5 88.3

49 106.3 76.9 142.9



Abundance Ion 84.05 (83.75 to 84.75): VU036041.D (-527) (-)

Ion 86.00 (85.70 to 86.70): VU036041.D (-527) (-)

Ion 49.10 (48.80 to 49.80): VU036041.D (-527) (-)

3.08

80000

60000

40000

20000

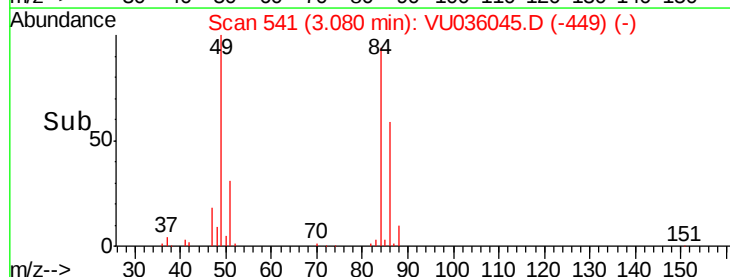
0

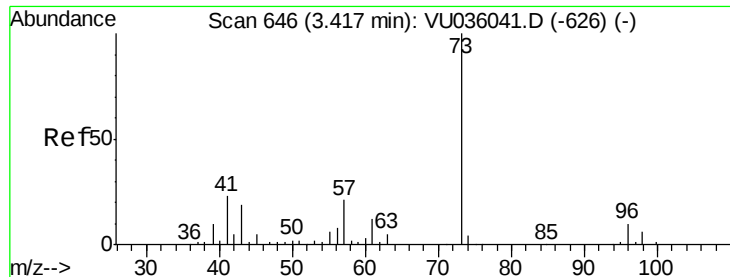
Time-->

3.00

3.10

3.20

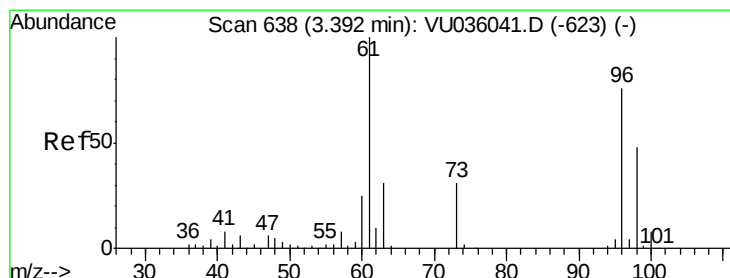
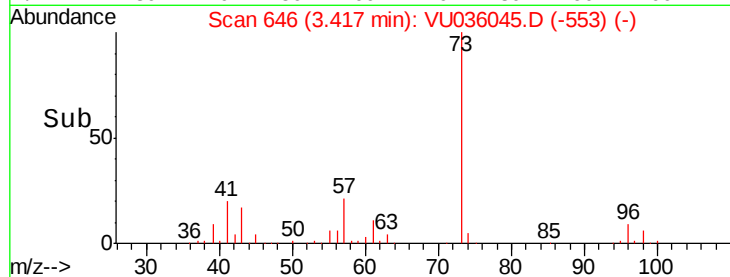
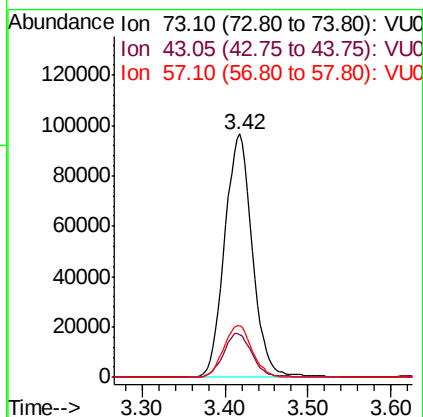
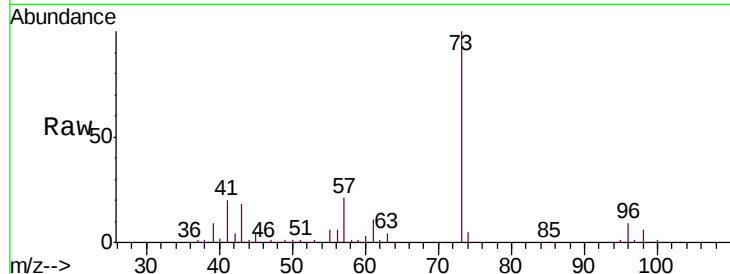




#17
Methyl tert-butyl Ether
Concen: 4.686 ug/L
RT: 3.42 min Scan# 646
Delta R.T. 0.00 min
Lab File: VU036045.D
Acq: 09 Dec 2019 13:38

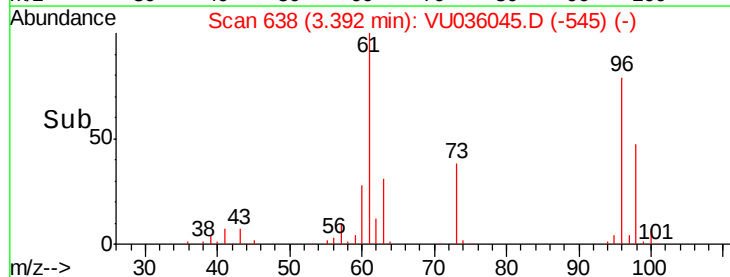
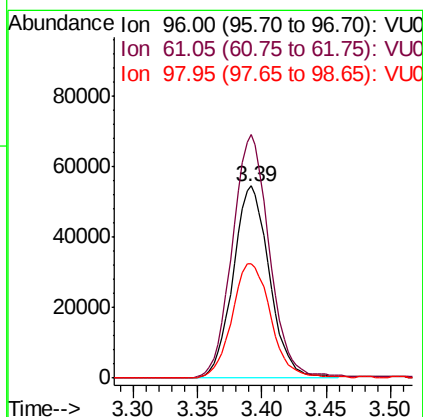
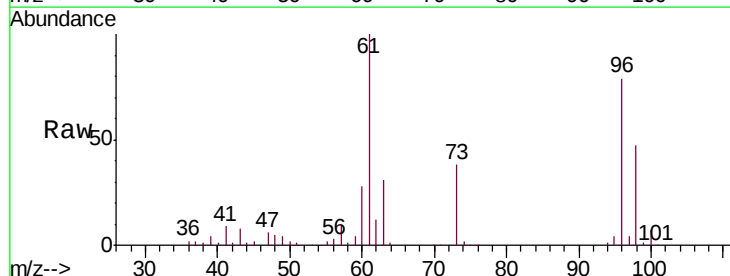
Instrument :
MSVOA_U
ClientSampleId :
VSTD00526

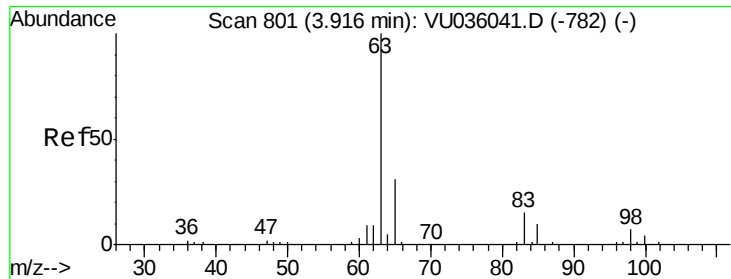
Tgt Ion: 73 Resp: 224765
Ion Ratio Lower Upper
73 100
43 18.2 15.6 23.4
57 21.6 17.4 26.2



#18
trans-1,2-Dichloroethene
Concen: 4.510 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.00 min
Lab File: VU036045.D
Acq: 09 Dec 2019 13:38

Tgt Ion: 96 Resp: 107246
Ion Ratio Lower Upper
96 100
61 126.7 92.0 170.8
98 59.7 44.6 82.8

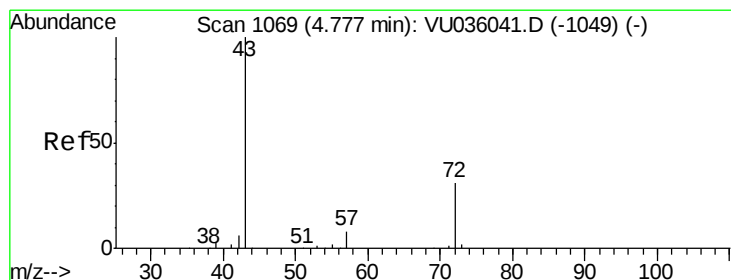
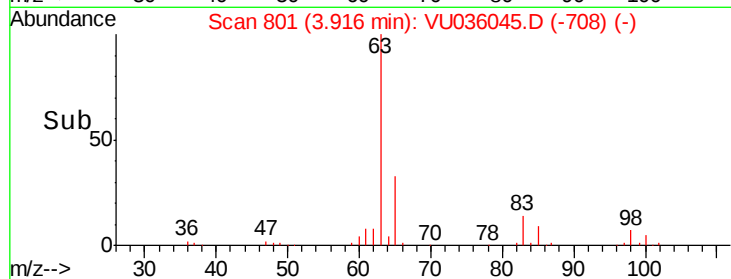
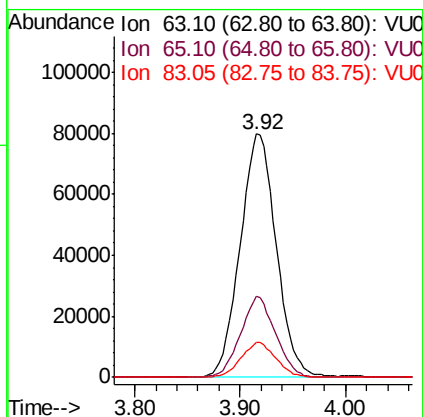
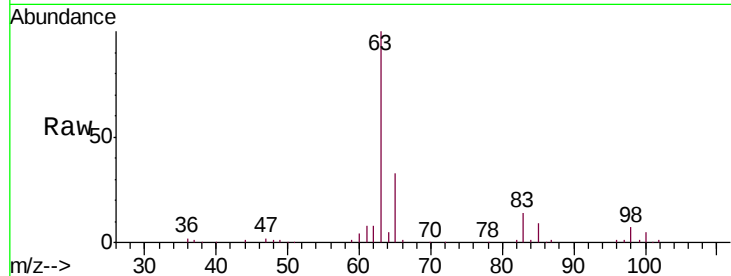




#19
 1,1-Dichloroethane
 Concen: 4.456 ug/L
 RT: 3.92 min Scan# 801
 Delta R.T. 0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

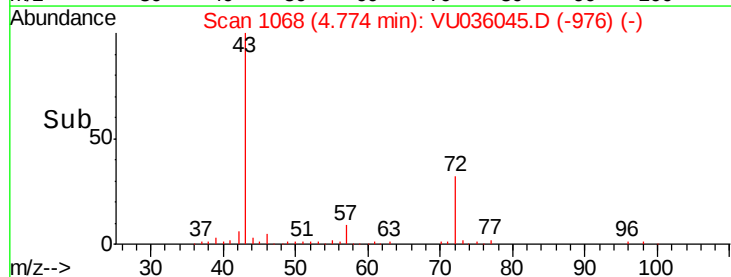
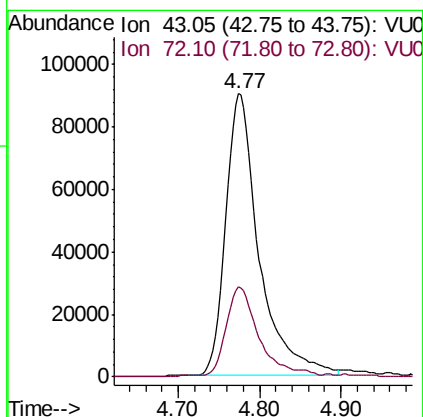
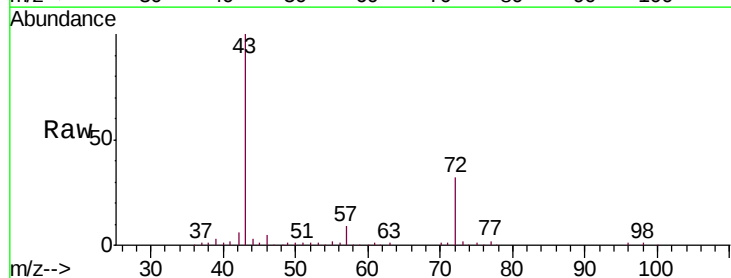
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

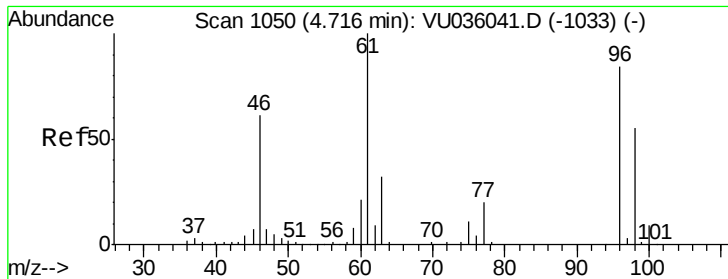
Tgt Ion: 63 Resp: 190150
 Ion Ratio Lower Upper
 63 100
 65 33.1 21.8 40.4
 83 14.2 10.1 18.9



#21
 2-Butanone
 Concen: 41.781 ug/L
 RT: 4.77 min Scan# 1068
 Delta R.T. -0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

Tgt Ion: 43 Resp: 258162
 Ion Ratio Lower Upper
 43 100
 72 29.9 15.0 45.0





#22

cis-1,2-Dichloroethene

Concen: 4.659 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00526

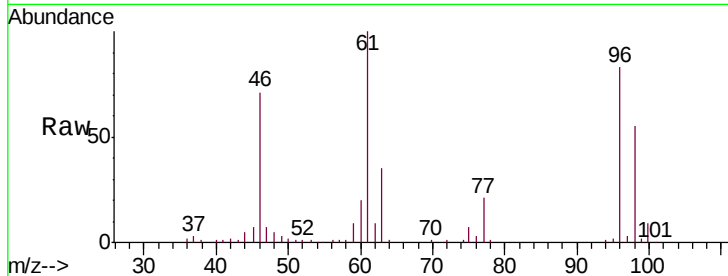
Tgt Ion: 96 Resp: 116277

Ion Ratio Lower Upper

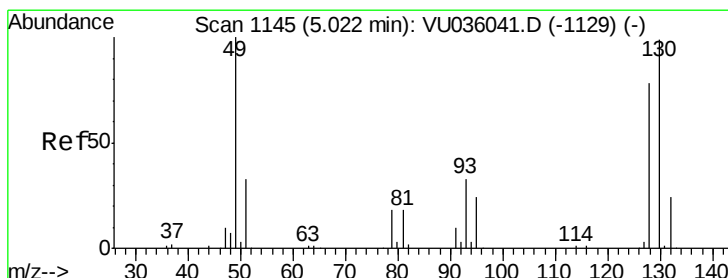
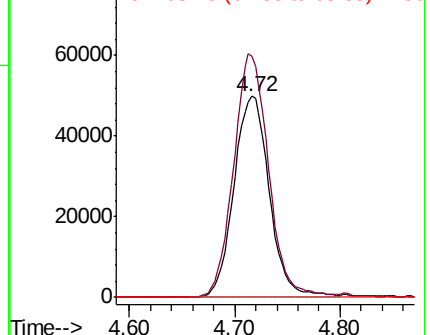
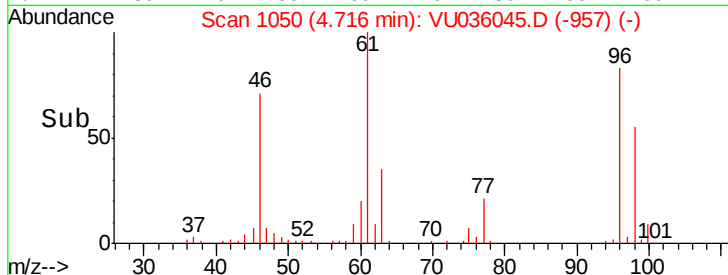
96 100

61 119.9 83.0 154.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036045.D (-957) (-)



#23

Bromochloromethane

Concen: 4.327 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Tgt Ion: 128 Resp: 55830

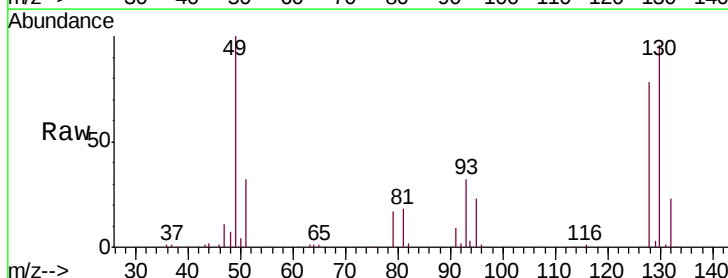
Ion Ratio Lower Upper

128 100

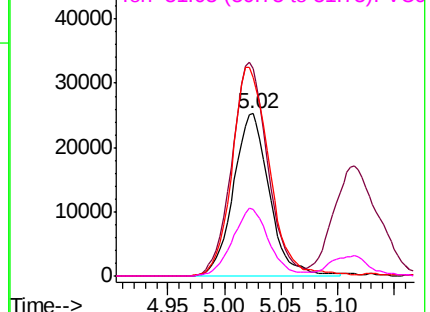
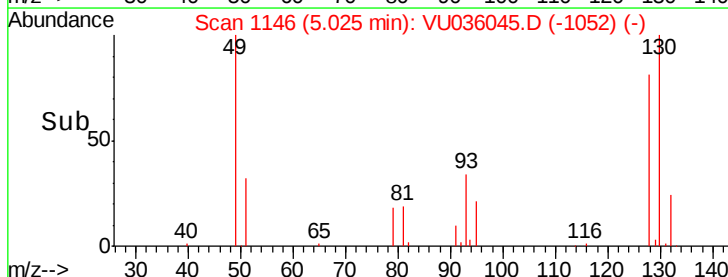
49 128.3 90.2 167.6

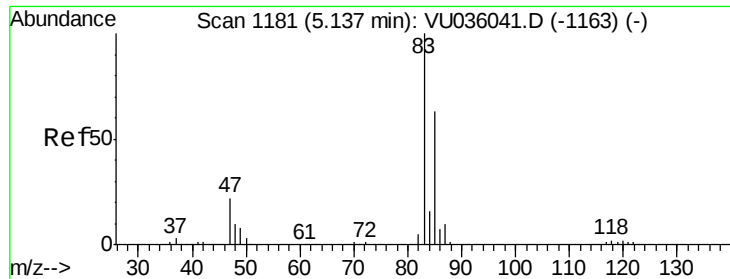
130 122.6 89.0 165.4

51 40.8 33.8 50.6



Abundance Ion 127.90 (127.60 to 128.60): VU036045.D (-1052) (-)

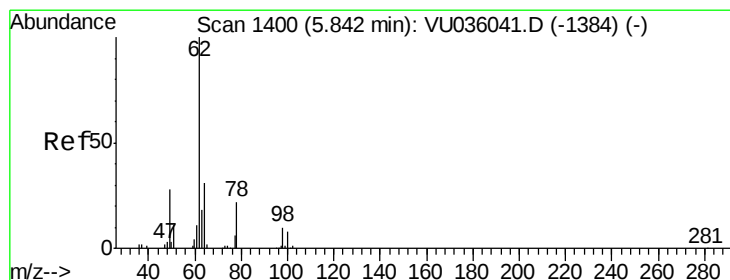
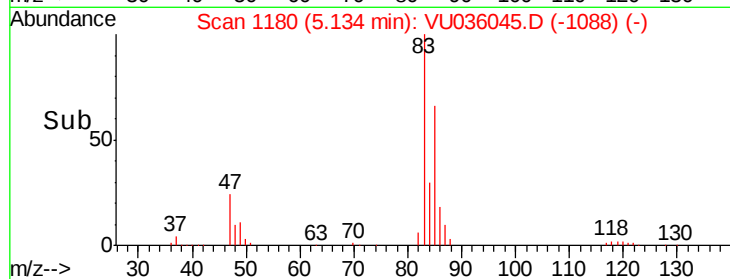
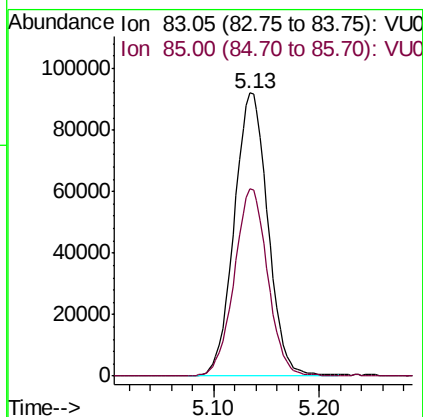
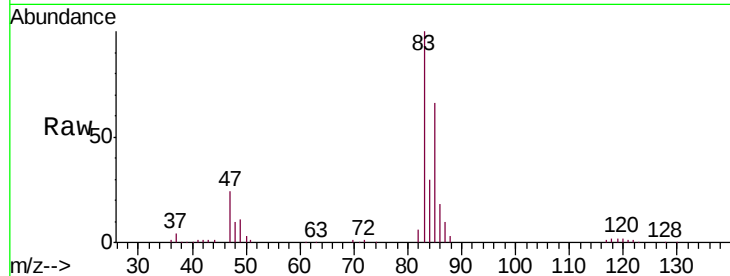




#25
Chloroform
Concen: 4.288 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VU036045.D
Acq: 09 Dec 2019 13:38

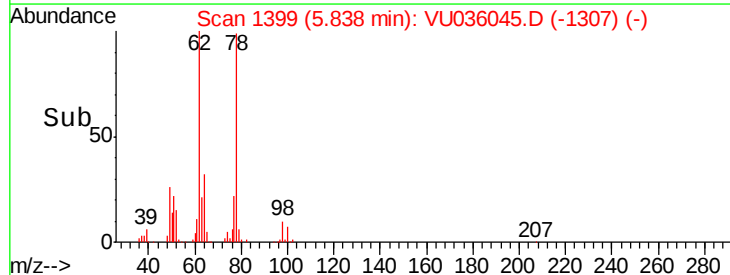
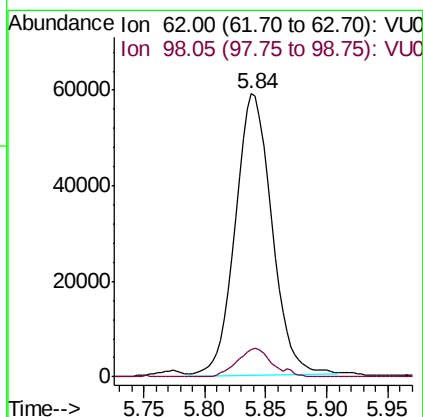
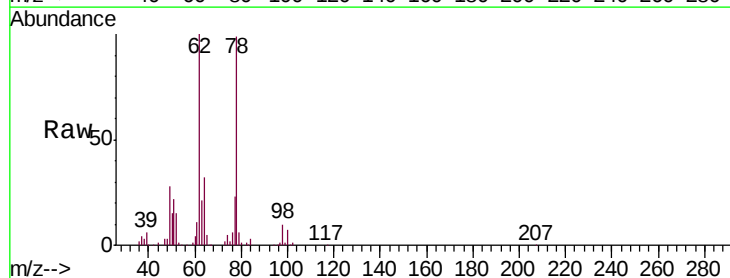
Instrument :
MSVOA_U
ClientSampleId :
VSTD00526

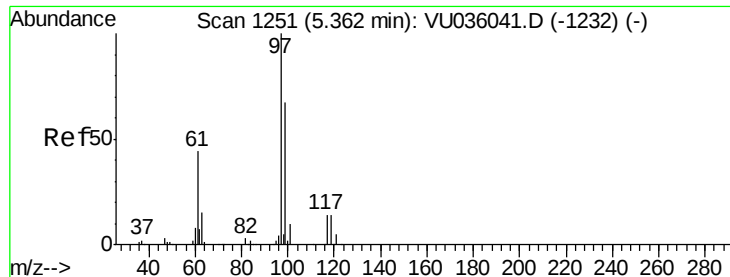
Tgt Ion: 83 Resp: 203952
Ion Ratio Lower Upper
83 100
85 66.0 43.9 81.5



#27
1,2-Dichloroethane
Concen: 4.356 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. -0.00 min
Lab File: VU036045.D
Acq: 09 Dec 2019 13:38

Tgt Ion: 62 Resp: 122402
Ion Ratio Lower Upper
62 100
98 9.7 8.2 12.2

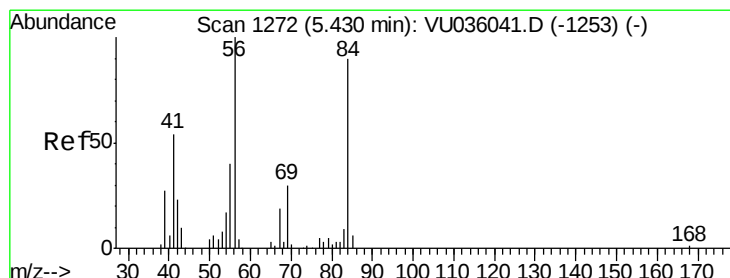
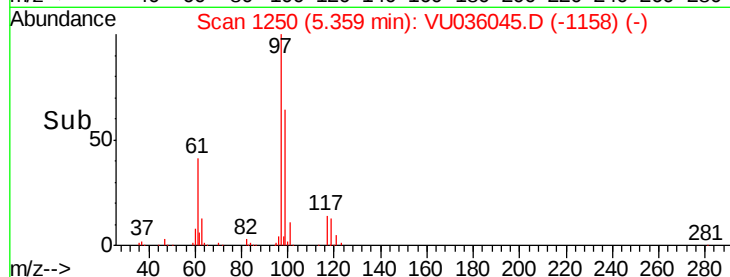
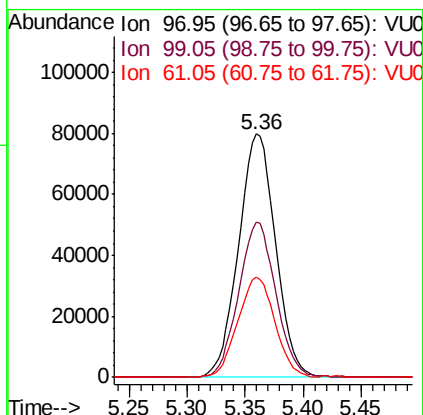
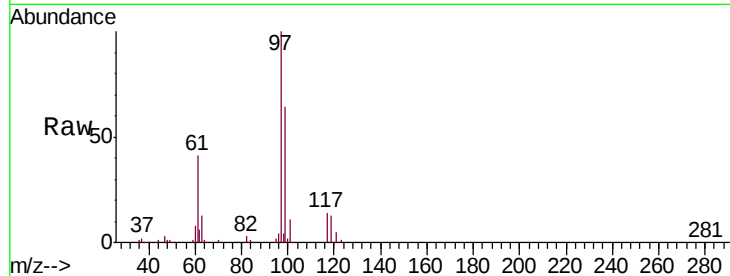




#29
 1,1,1-Trichloroethane
 Concen: 4.824 ug/L
 RT: 5.36 min Scan# 1250
 Delta R.T. -0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

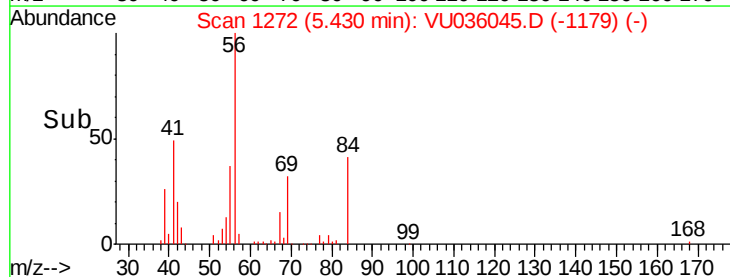
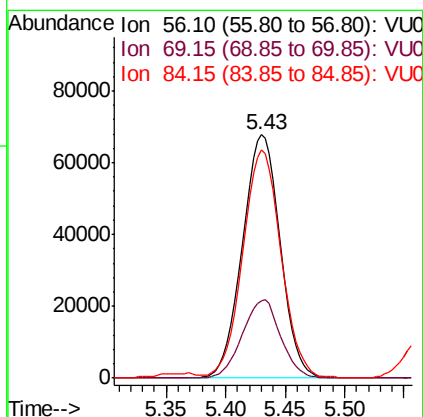
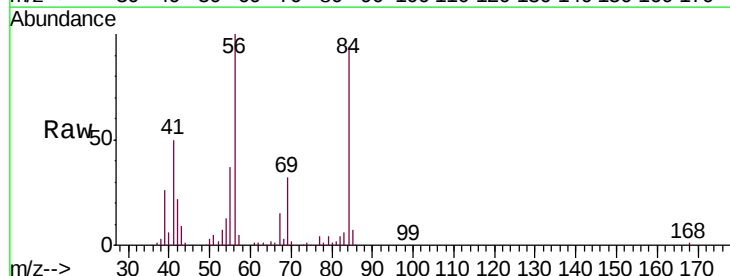
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

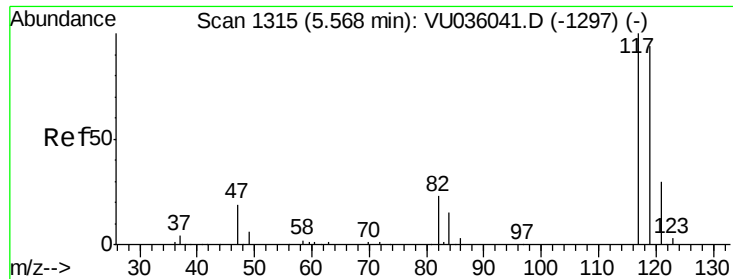
Tgt Ion: 97 Resp: 177752
 Ion Ratio Lower Upper
 97 100
 99 64.0 52.2 78.2
 61 41.3 34.7 52.1



#30
 Cyclohexane
 Concen: 5.155 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

Tgt Ion: 56 Resp: 149124
 Ion Ratio Lower Upper
 56 100
 69 32.5 25.4 38.0
 84 94.9 74.5 111.7





#31

Carbon tetrachloride

Concen: 4.918 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

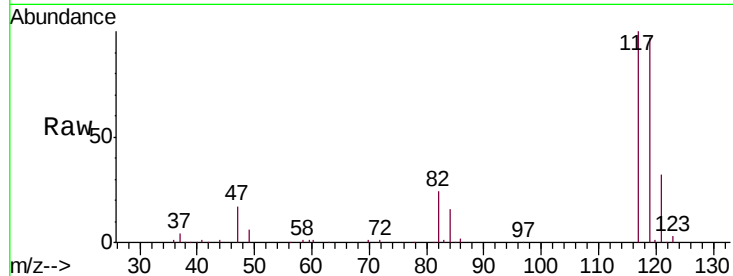
VSTD00526

Tgt Ion:117 Resp: 163867

Ion Ratio Lower Upper

117 100

119 95.5 78.2 117.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.57

80000

60000

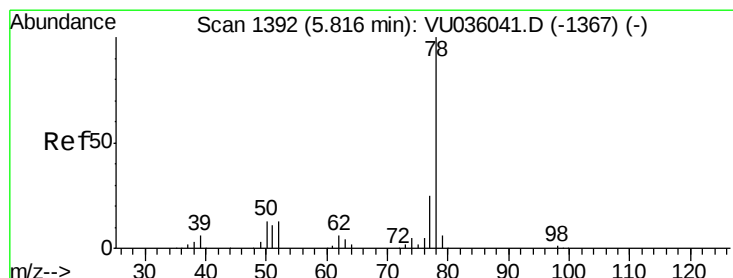
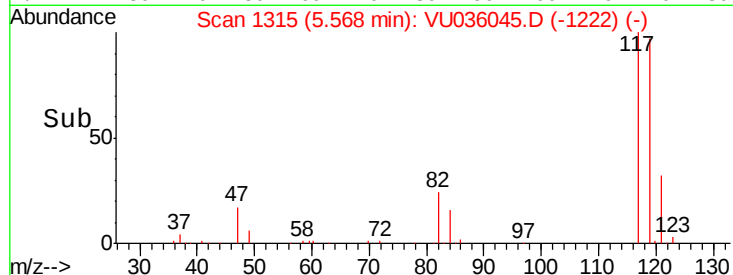
40000

20000

0

Time-->

5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 4.975 ug/L

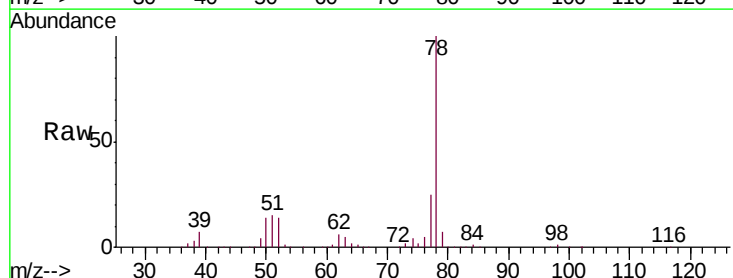
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Tgt Ion: 78 Resp: 444496



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.82

250000

200000

150000

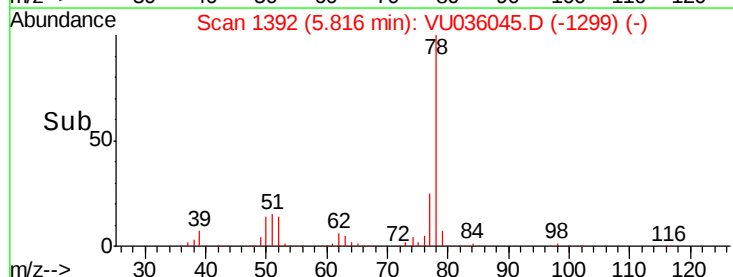
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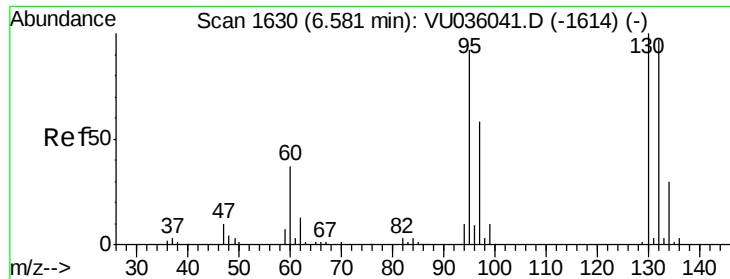
50000

0

Time-->

5.70 5.80 5.90





#34

Trichloroethene

Concen: 5.005 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00526

Tgt Ion: 95 Resp: 118740

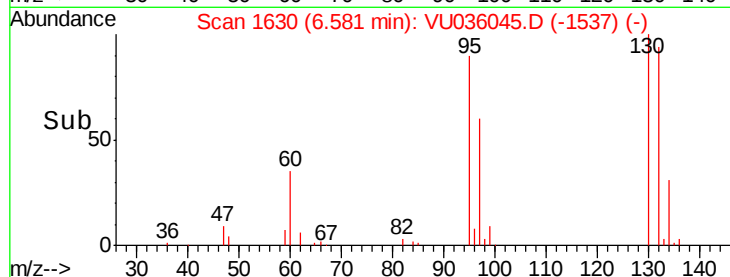
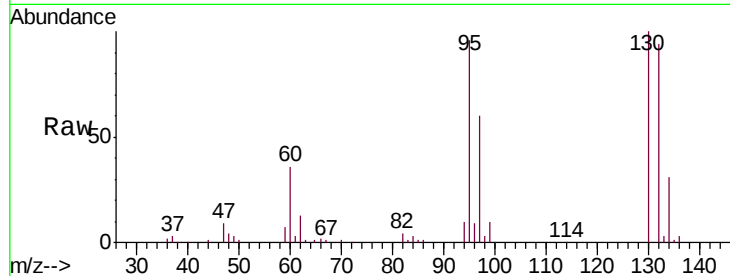
Ion Ratio Lower Upper

95 100

97 63.2 44.4 82.4

132 97.8 73.4 136.4

130 104.5 75.9 141.1



Abundance Ion 95.00 (94.70 to 95.70): VU036045.D (-1537) (-)

Ion 96.95 (96.65 to 97.65): VU036045.D (-1537) (-)

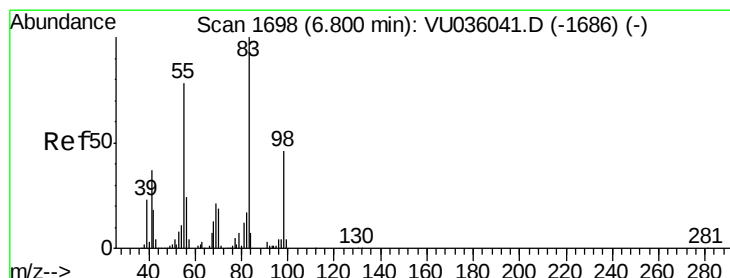
Ion 131.95 (131.65 to 132.65): VU036045.D (-1537) (-)

Ion 129.95 (129.65 to 130.65): VU036045.D (-1537) (-)

Time-->

6.58

6.50 6.55 6.60 6.65



#35

Methylcyclohexane

Concen: 5.349 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

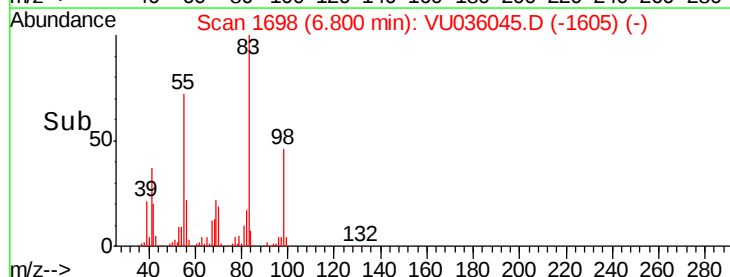
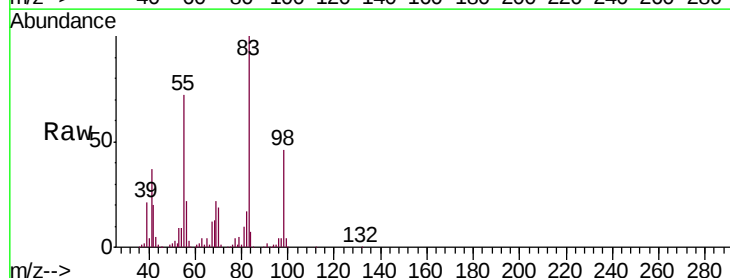
Tgt Ion: 83 Resp: 170237

Ion Ratio Lower Upper

83 100

55 74.7 62.1 93.1

98 46.0 37.0 55.4



Abundance Ion 83.15 (82.85 to 83.85): VU036045.D (-1605) (-)

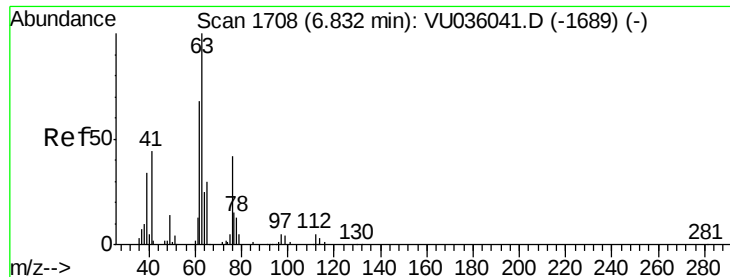
Ion 55.10 (54.80 to 55.80): VU036045.D (-1605) (-)

Ion 98.15 (97.85 to 98.85): VU036045.D (-1605) (-)

Time-->

6.80

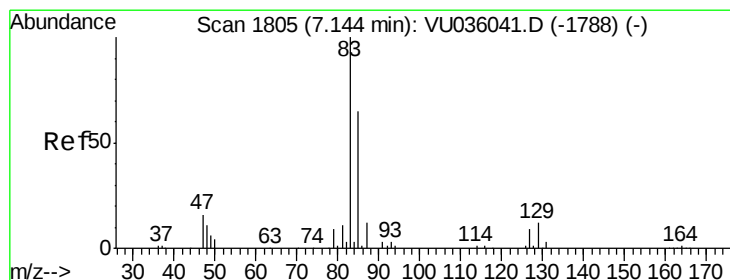
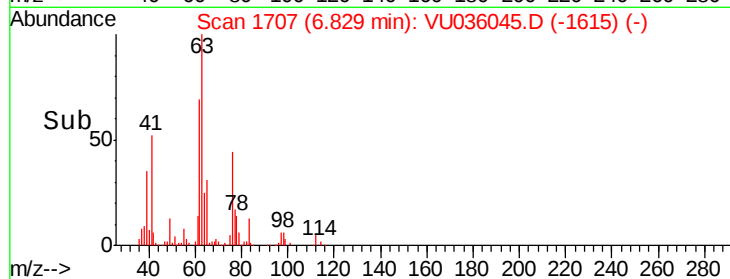
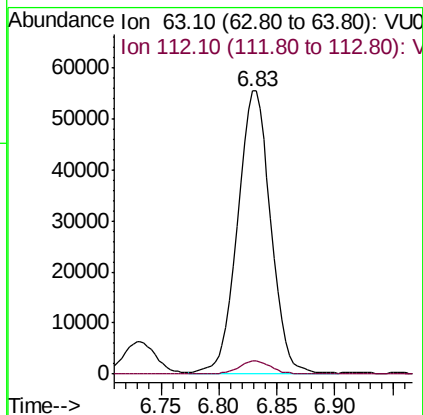
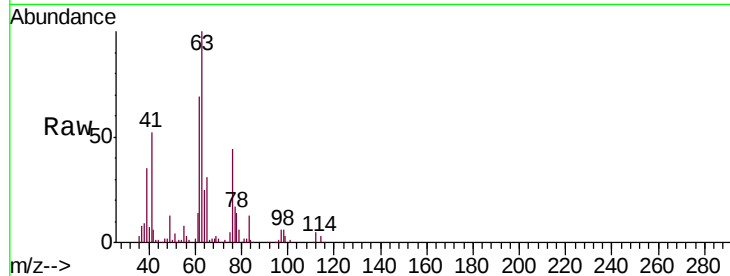
6.75 6.80 6.85



#37
 1,2-Dichloropropane
 Concen: 4.870 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

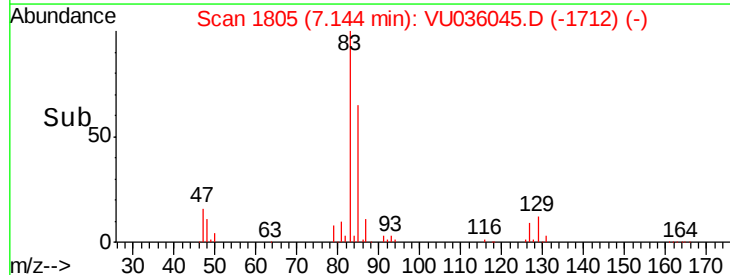
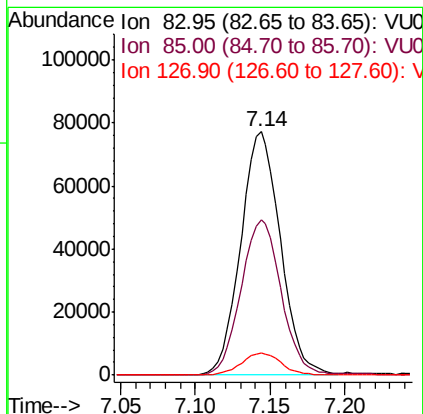
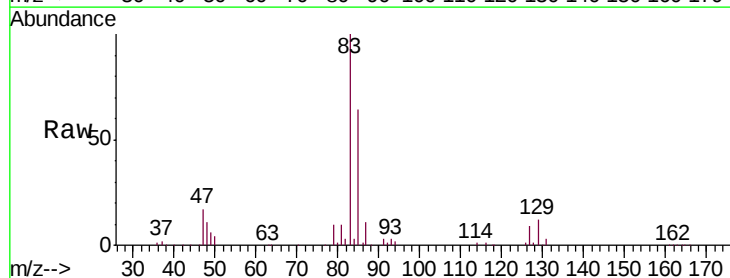
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

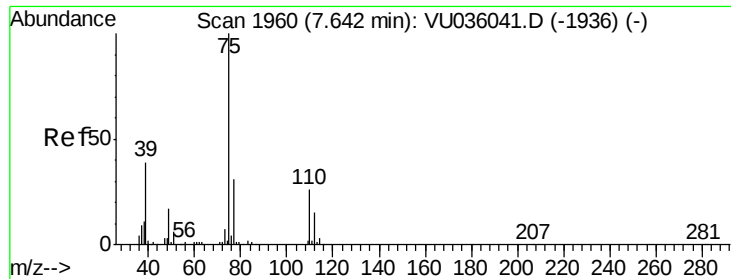
Tgt Ion: 63 Resp: 109144
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.8 5.8



#38
 Bromodichloromethane
 Concen: 4.737 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

Tgt Ion: 83 Resp: 142707
 Ion Ratio Lower Upper
 83 100
 85 63.9 45.2 84.0
 127 9.1 7.4 11.2

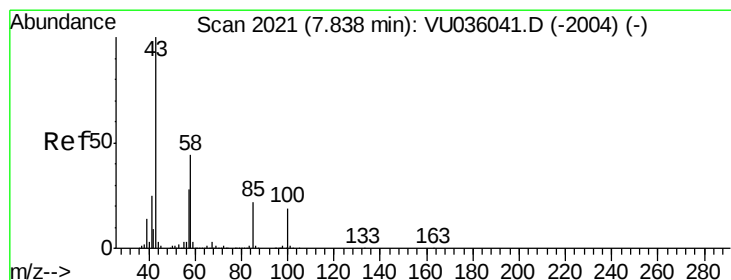
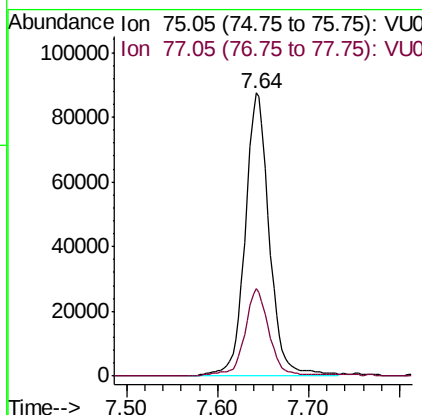
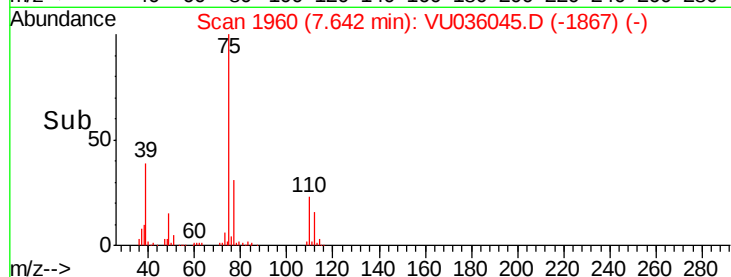
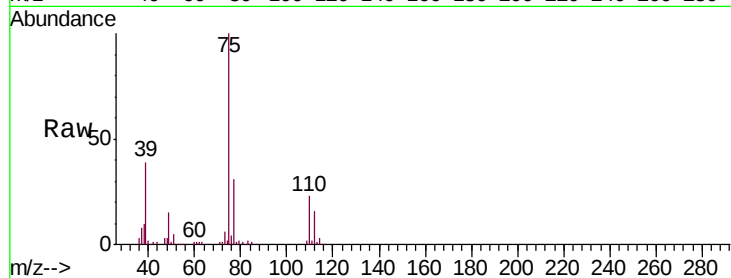




#39
 cis-1,3-Dichloropropene
 Concen: 5.317 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

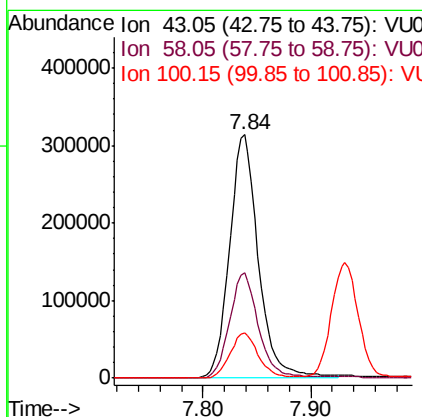
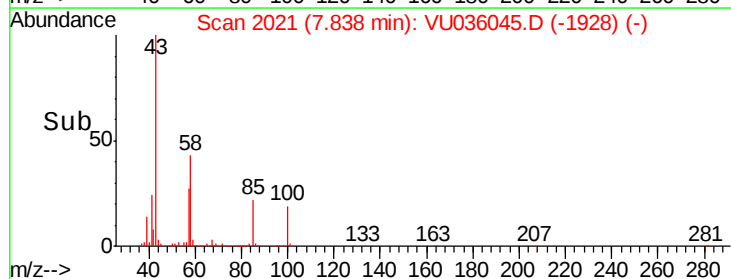
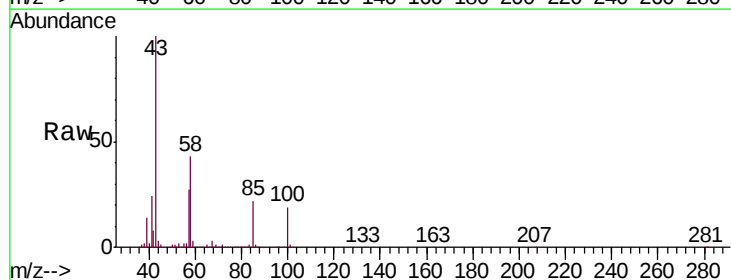
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

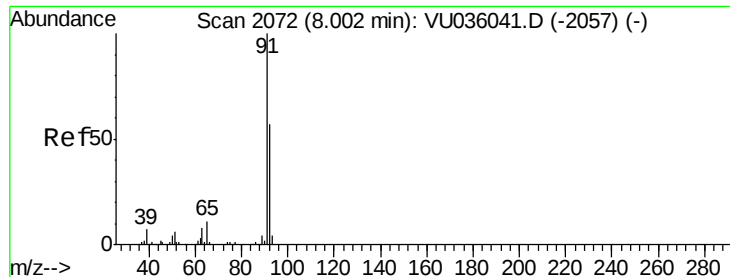
Tgt Ion: 75 Resp: 161962
 Ion Ratio Lower Upper
 75 100
 77 30.9 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 50.101 ug/L
 RT: 7.84 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

Tgt Ion: 43 Resp: 586504
 Ion Ratio Lower Upper
 43 100
 58 43.0 34.5 51.7
 100 18.3 14.3 21.5





#42

Toluene

Concen: 5.165 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

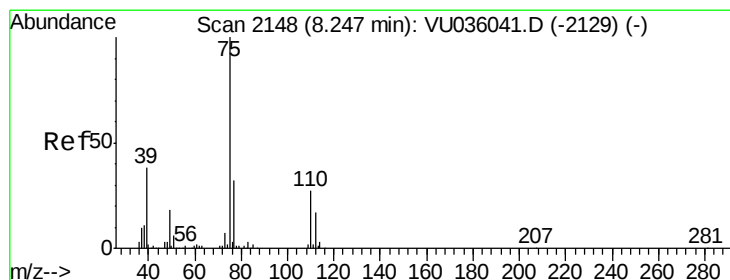
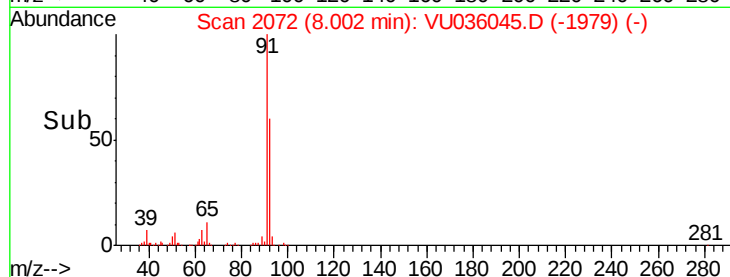
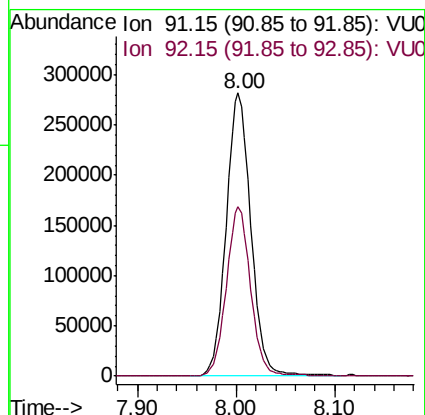
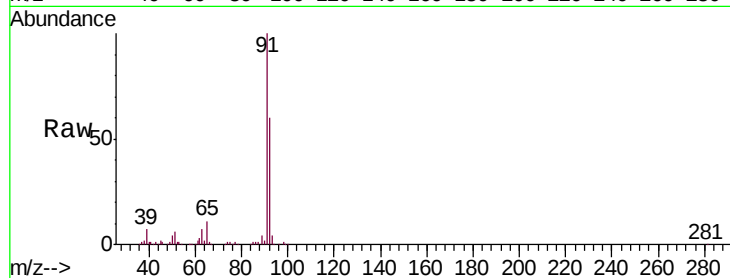
VSTD00526

Tgt Ion: 91 Resp: 494936

Ion Ratio Lower Upper

91 100

92 60.1 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 5.106 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU036045.D

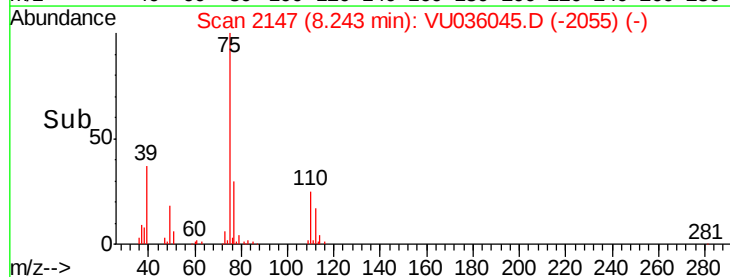
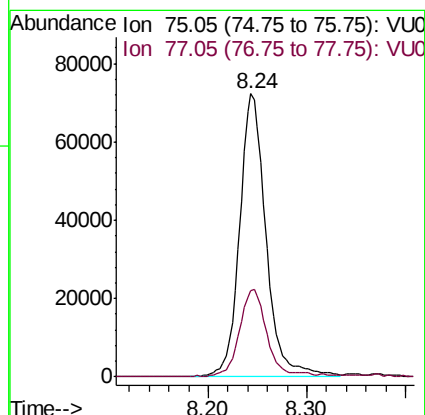
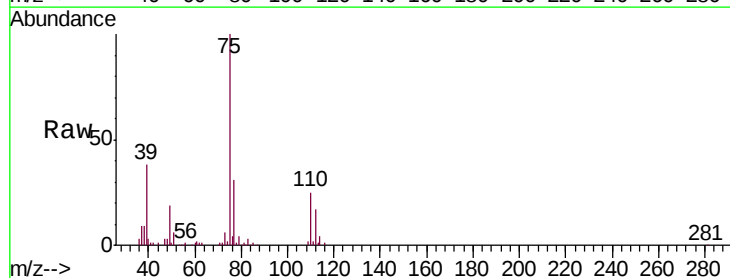
Acq: 09 Dec 2019 13:38

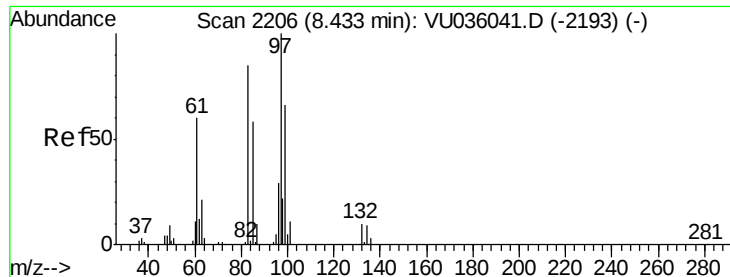
Tgt Ion: 75 Resp: 134464

Ion Ratio Lower Upper

75 100

77 30.7 22.9 42.5

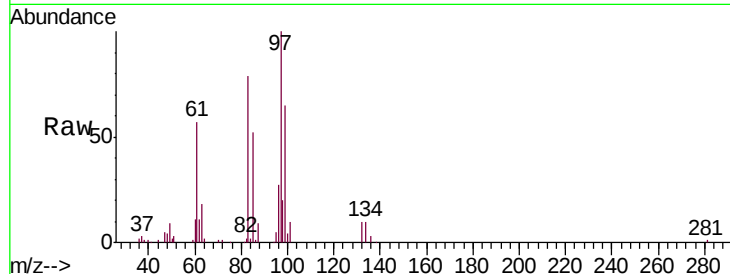




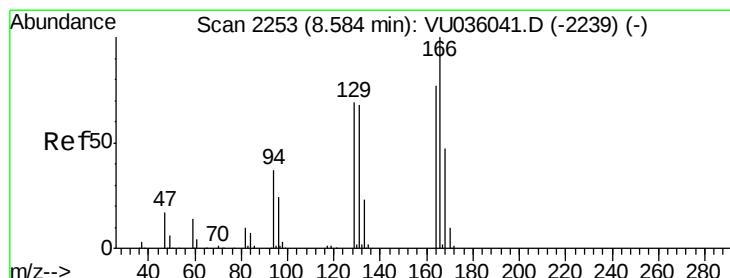
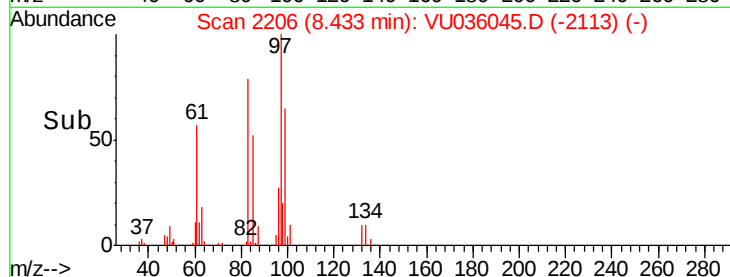
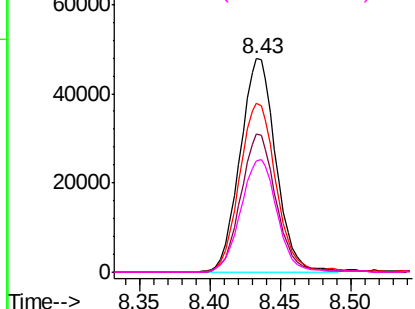
#45
 1,1,2-Trichloroethane
 Concen: 4.825 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

Tgt Ion:	97	Resp:	85142
Ion	Ratio	Lower	Upper
97	100		
99	64.9	46.1	85.7
83	79.3	59.6	110.8
85	52.3	40.5	75.3

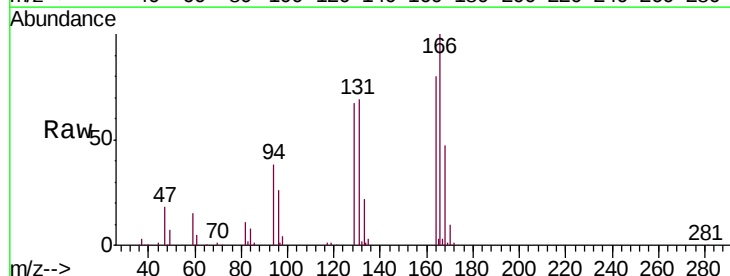


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

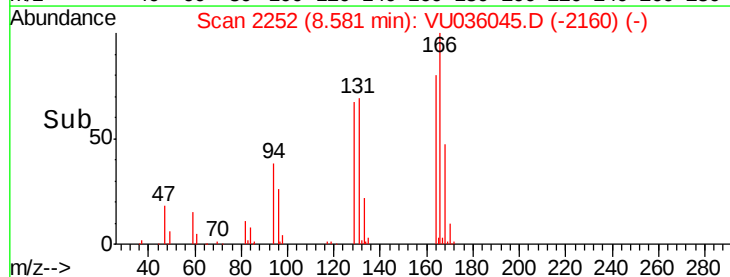
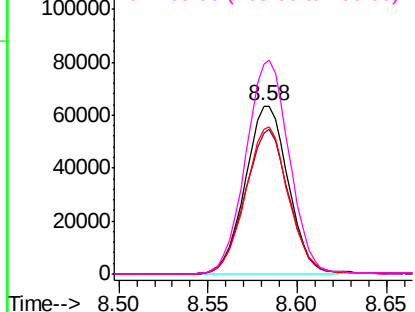


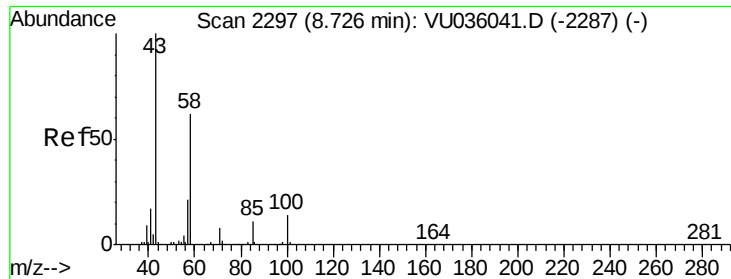
#47
 Tetrachloroethene
 Concen: 4.742 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. -0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

Tgt Ion:	164	Resp:	106955
Ion	Ratio	Lower	Upper
164	100		
129	83.9	63.1	117.3
131	86.2	61.5	114.1
166	124.6	91.0	169.0



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

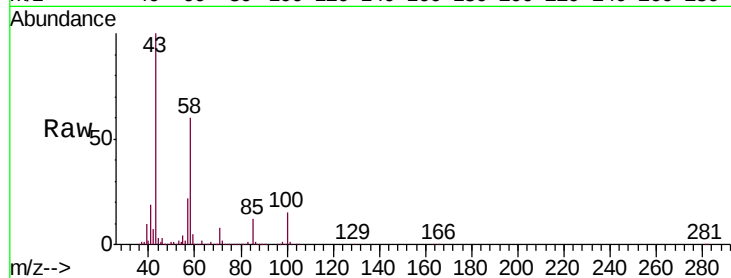




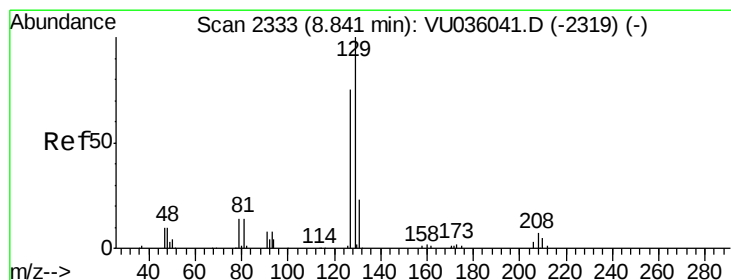
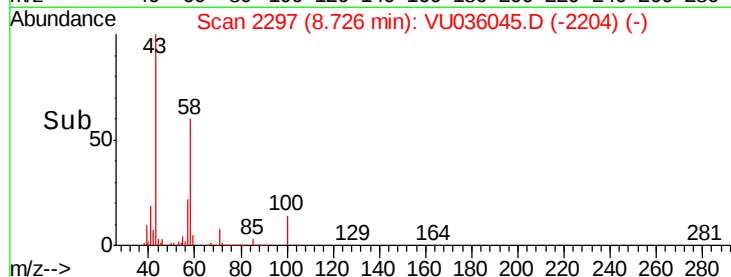
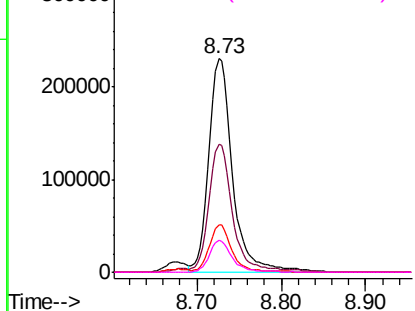
#48
2-Hexanone
Concen: 53.890 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU036045.D
Acq: 09 Dec 2019 13:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD00526

Tgt Ion:	43	Resp:	452563
Ion	Ratio	Lower	Upper
43	100		
58	60.2	46.9	70.3
57	20.6	16.4	24.6
100	14.4	11.0	16.4

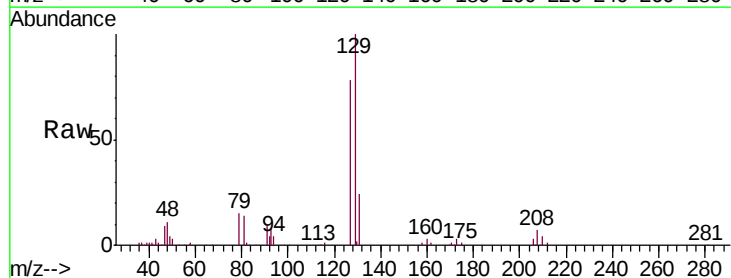


Abundance Ion 43.05 (42.75 to 43.75): VU036045.D (-2297) (-)
Ion 58.05 (57.75 to 58.75): VU036045.D (-2297) (-)
Ion 57.20 (56.90 to 57.90): VU036045.D (-2297) (-)
Ion 100.15 (99.85 to 100.85): VU036045.D (-2297) (-)

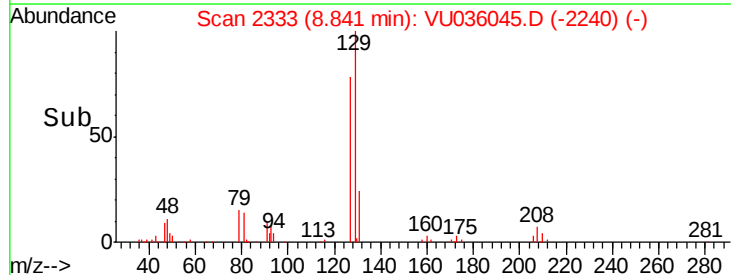
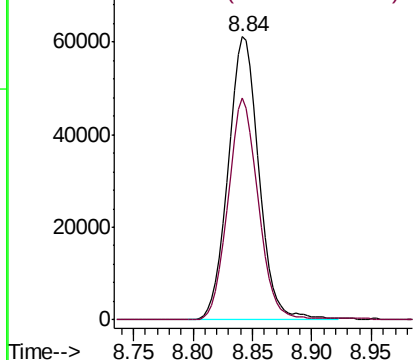


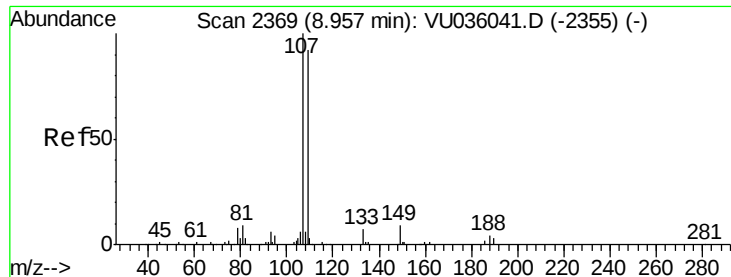
#49
Dibromochloromethane
Concen: 4.673 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036045.D
Acq: 09 Dec 2019 13:38

Tgt Ion:	129	Resp:	109442
Ion	Ratio	Lower	Upper
129	100		
127	78.3	52.5	97.5



Abundance Ion 128.95 (128.65 to 129.65): VU036045.D (-2333) (-)
Ion 126.90 (126.60 to 127.60): VU036045.D (-2333) (-)

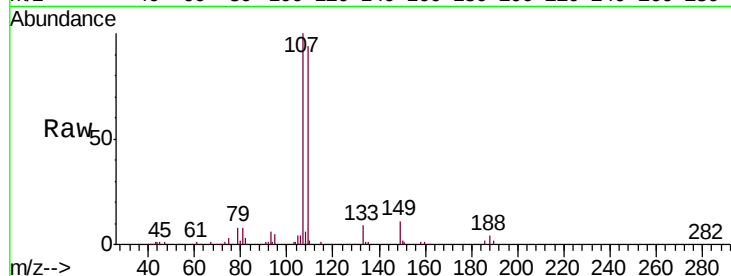




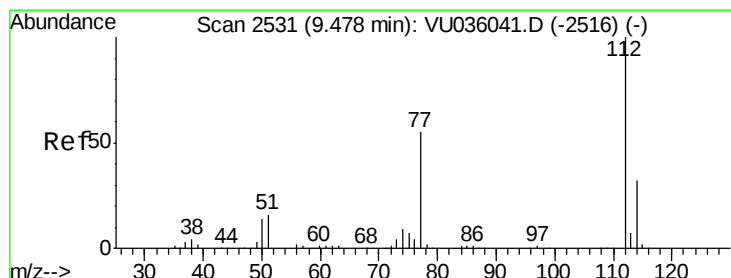
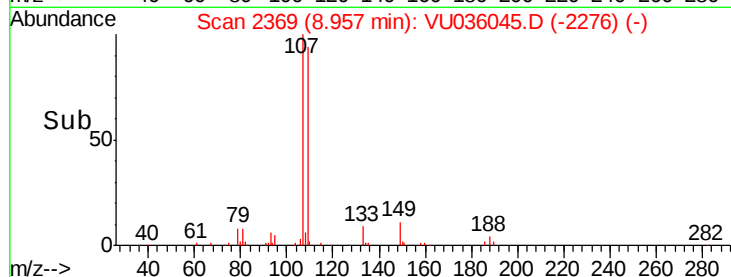
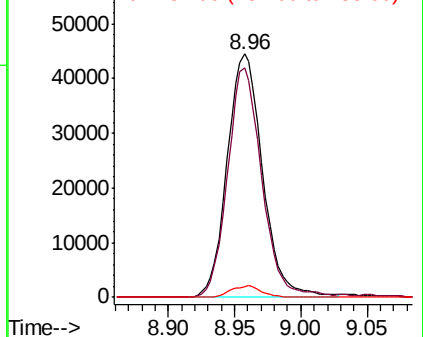
#50
1,2-Dibromoethane
Concen: 4.847 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VU036045.D
Acq: 09 Dec 2019 13:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD00526

Tgt Ion:107 Resp: 82710
Ion Ratio Lower Upper
107 100
109 94.4 64.3 119.3
188 4.3 3.6 5.4

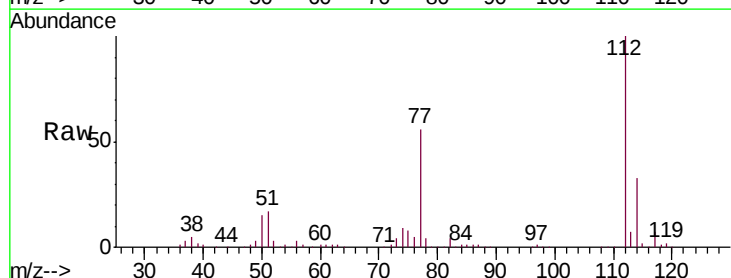


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

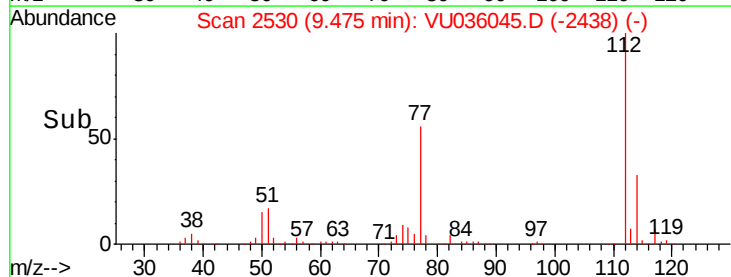
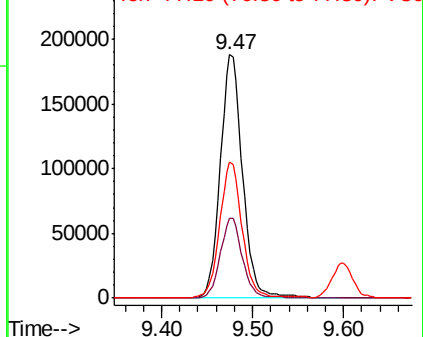


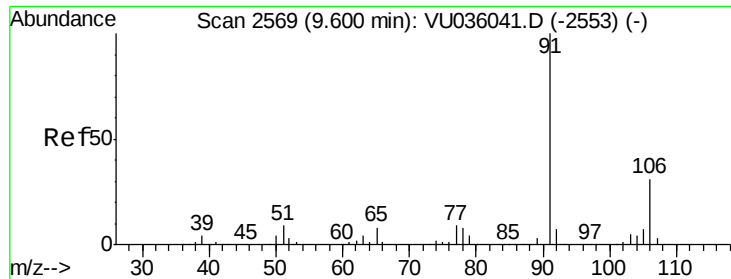
#51
Chlorobenzene
Concen: 4.772 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. -0.00 min
Lab File: VU036045.D
Acq: 09 Dec 2019 13:38

Tgt Ion:112 Resp: 318717
Ion Ratio Lower Upper
112 100
114 32.6 22.3 41.5
77 55.7 43.8 65.8



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.916 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

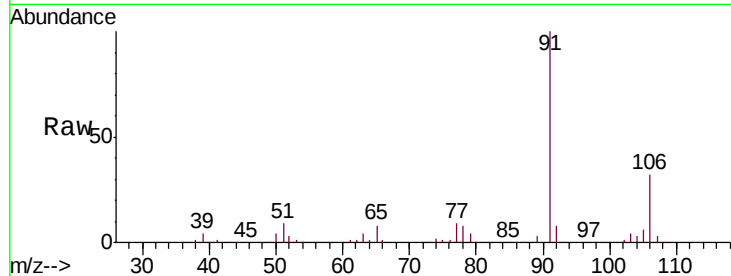
VSTD00526

Tgt Ion: 91 Resp: 493523

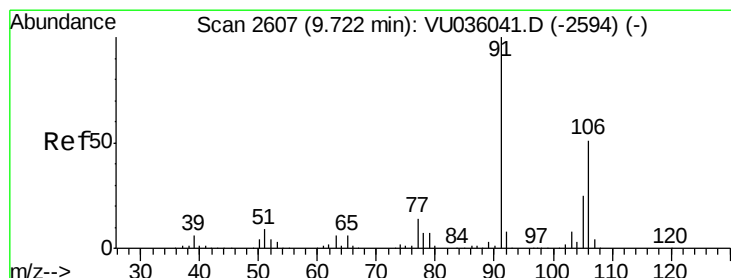
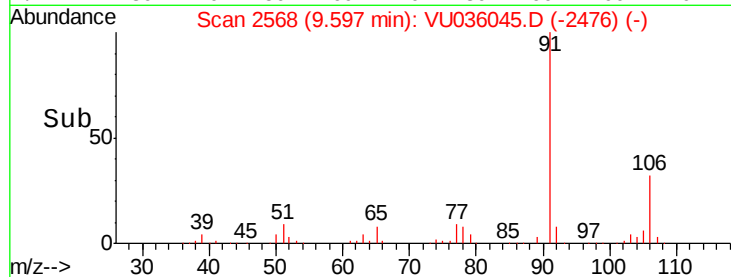
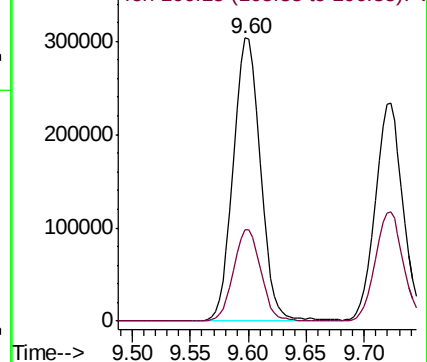
Ion Ratio Lower Upper

91 100

106 32.3 22.0 41.0



Abundance Ion 91.15 (90.85 to 91.85): VU036041.D (-2553) (-)



#53

m,p-Xylene

Concen: 5.021 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036045.D

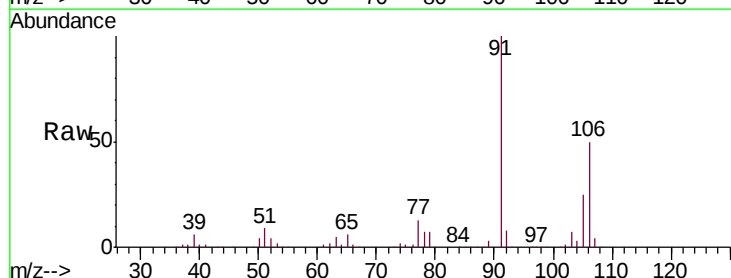
Acq: 09 Dec 2019 13:38

Tgt Ion: 106 Resp: 200693

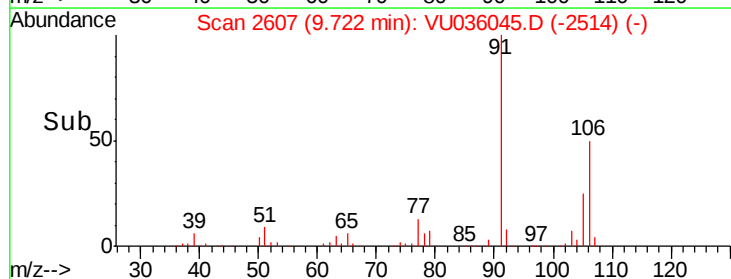
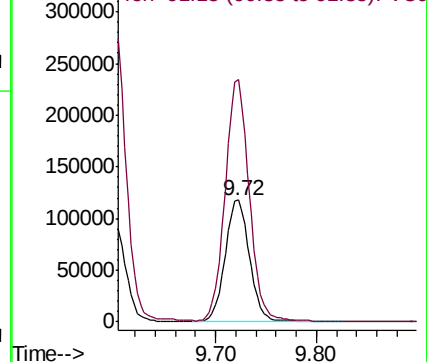
Ion Ratio Lower Upper

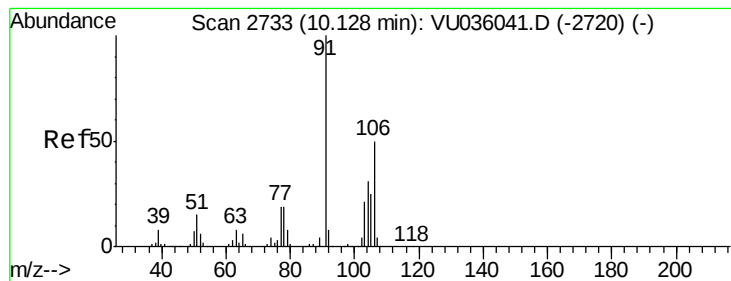
106 100

91 198.7 136.9 254.3



Abundance Ion 106.15 (105.85 to 106.85): VU036041.D (-2594) (-)





#54

o-Xylene

Concen: 5.136 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

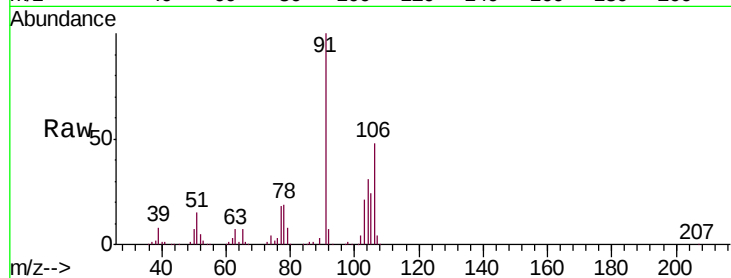
VSTD00526

Tgt Ion:106 Resp: 192786

Ion Ratio Lower Upper

106 100

91 208.0 140.6 261.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

250000

200000

150000

100000

50000

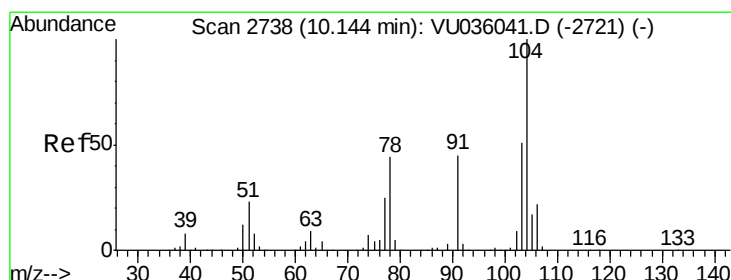
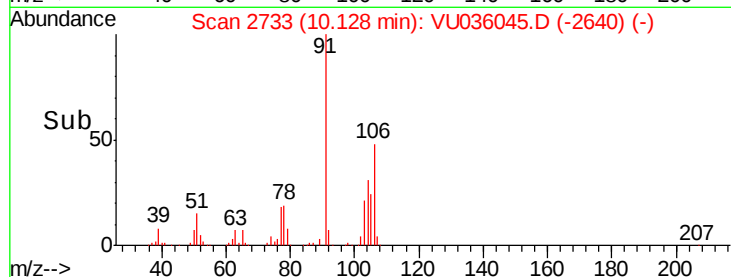
0

10.10

10.13

10.20

Time-->



#55

Styrene

Concen: 5.011 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. -0.00 min

Lab File: VU036045.D

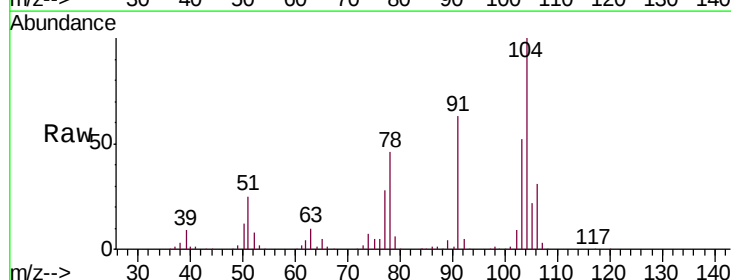
Acq: 09 Dec 2019 13:38

Tgt Ion:104 Resp: 322577

Ion Ratio Lower Upper

104 100

78 45.6 30.5 56.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0

200000

150000

100000

50000

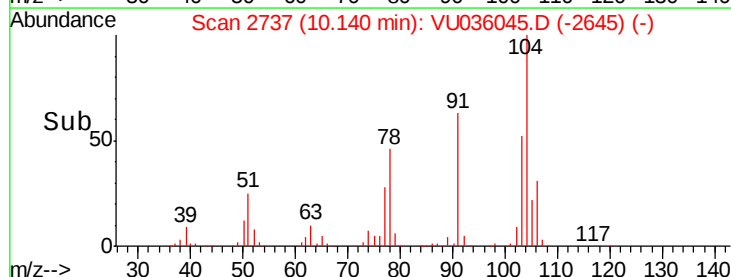
0

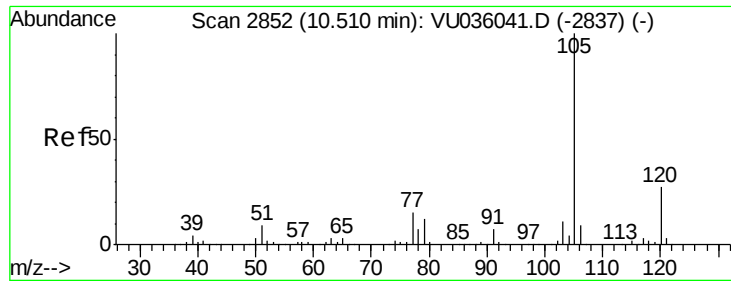
10.10

10.14

10.20

Time-->





#56

Isopropylbenzene

Concen: 4.998 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00526

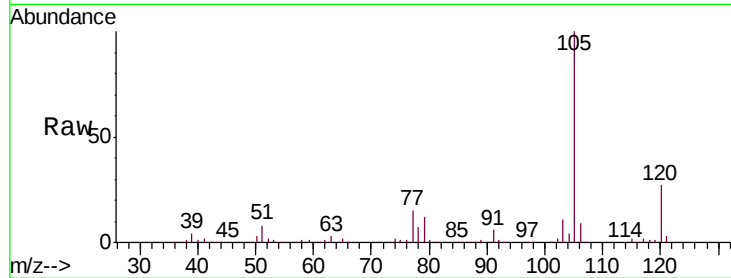
Tgt Ion: 105 Resp: 495024

Ion Ratio Lower Upper

105 100

120 27.1 21.4 32.2

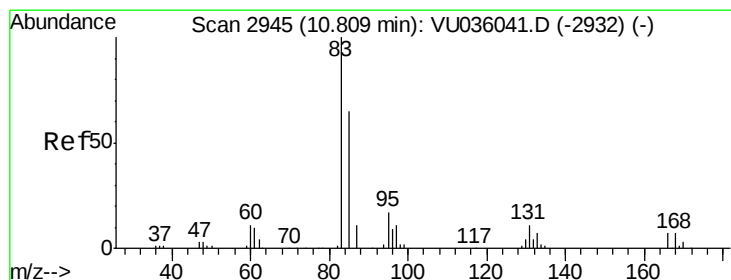
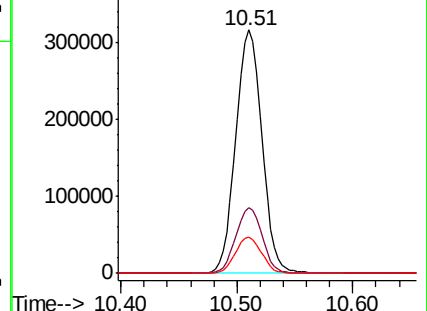
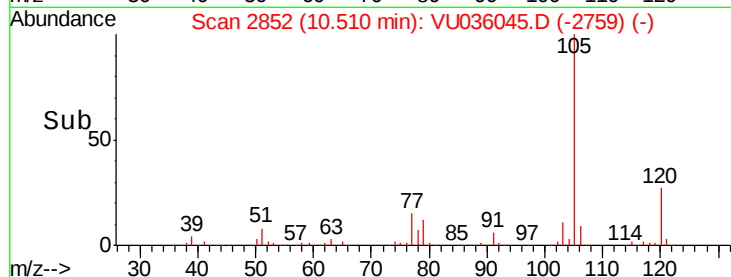
77 14.9 12.3 18.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.331 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

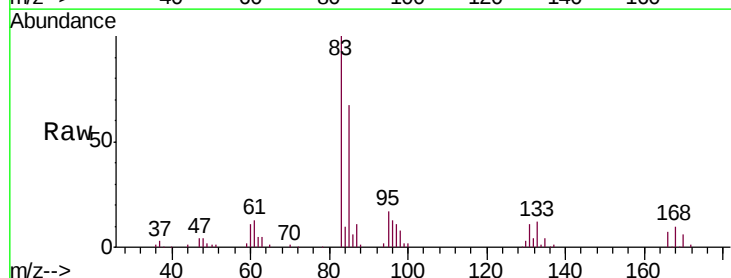
Tgt Ion: 83 Resp: 101032

Ion Ratio Lower Upper

83 100

85 66.6 45.4 84.2

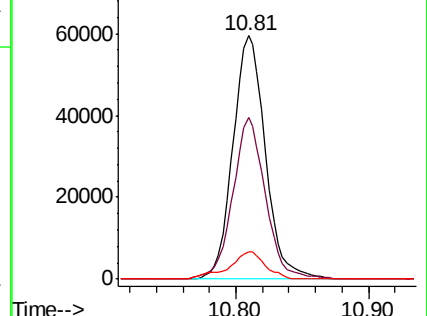
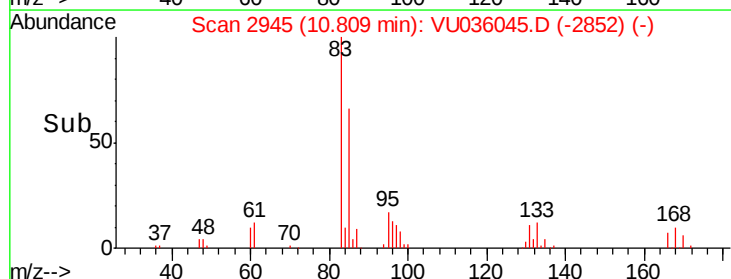
131 11.1 9.0 13.4

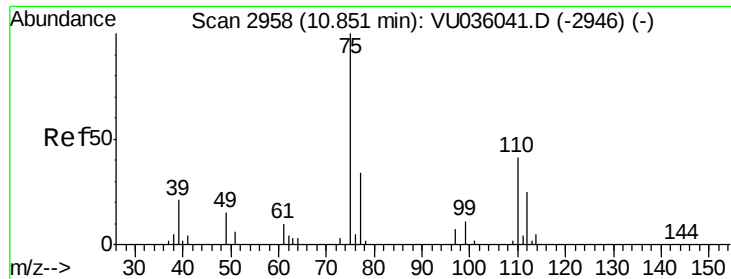


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

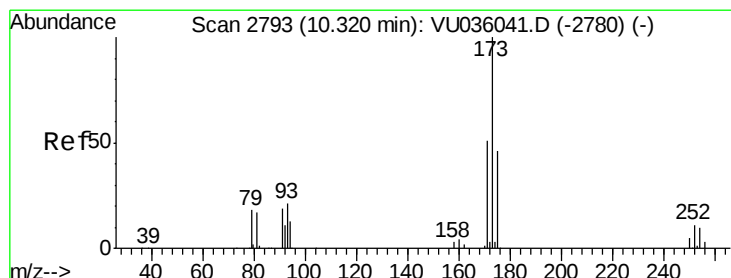
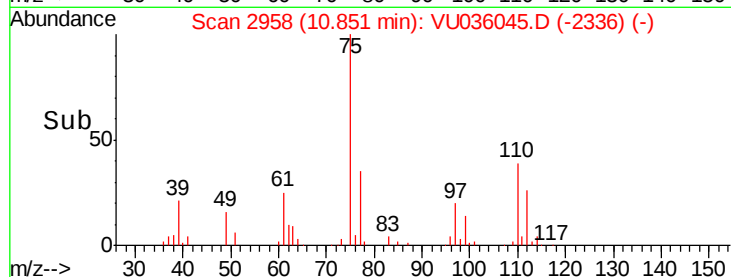
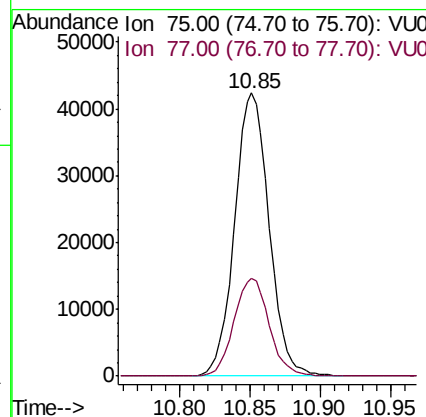
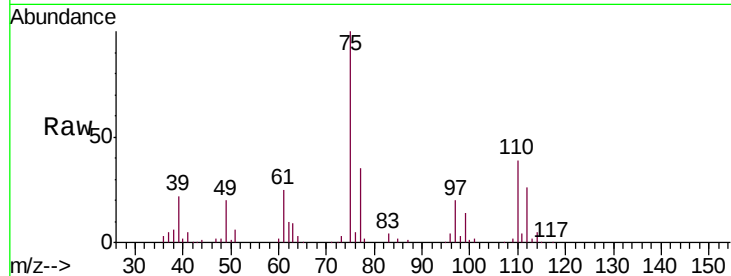




#59
 1,2,3-Trichloropropane
 Concen: 4.520 ug/L
 RT: 10.85 min Scan# 2958
 Delta R.T. 0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

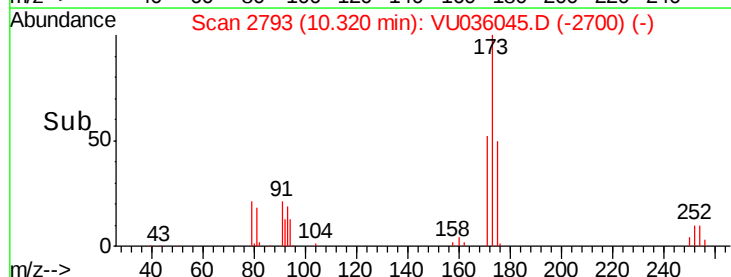
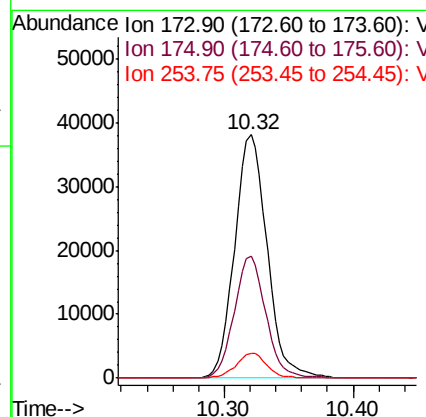
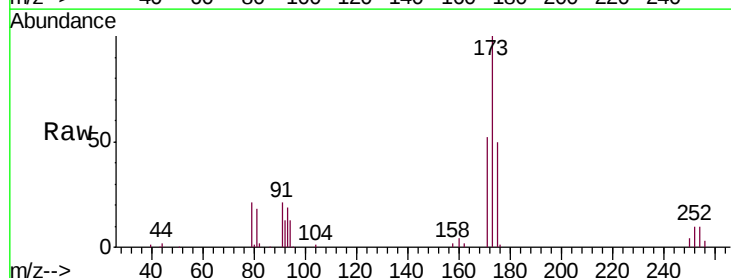
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

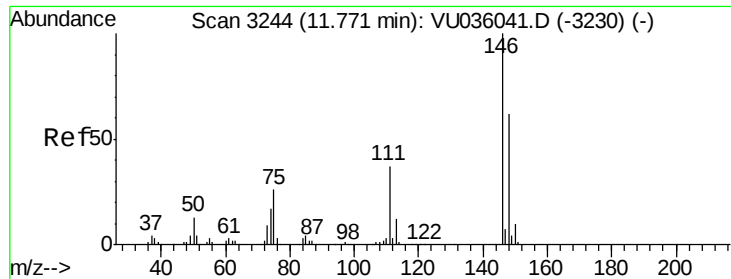
Tgt Ion: 75 Resp: 72419
 Ion Ratio Lower Upper
 75 100
 77 35.2 26.7 40.1



#61
 Bromoform
 Concen: 4.089 ug/L
 RT: 10.32 min Scan# 2793
 Delta R.T. 0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

Tgt Ion: 173 Resp: 66783
 Ion Ratio Lower Upper
 173 100
 175 48.4 39.4 59.0
 254 9.5 8.1 12.1





#62

1,3-Dichlorobenzene

Concen: 4.889 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00526

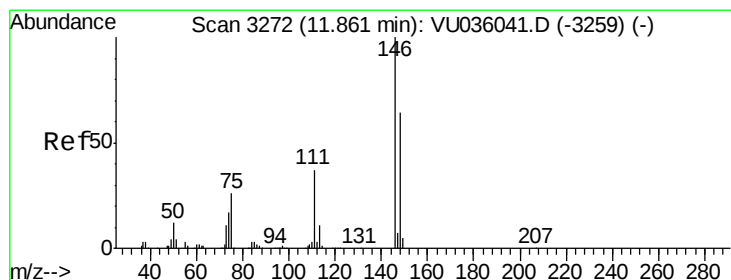
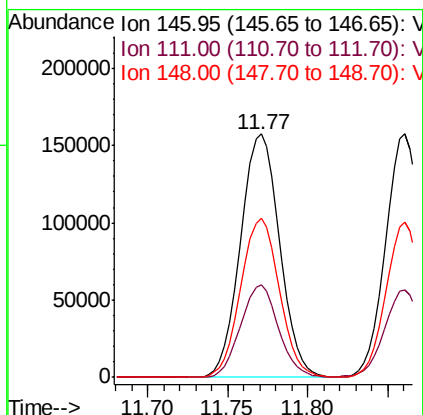
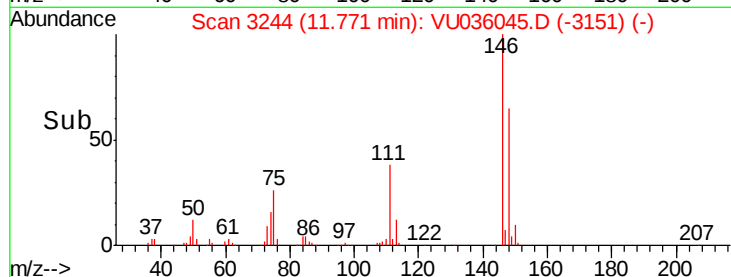
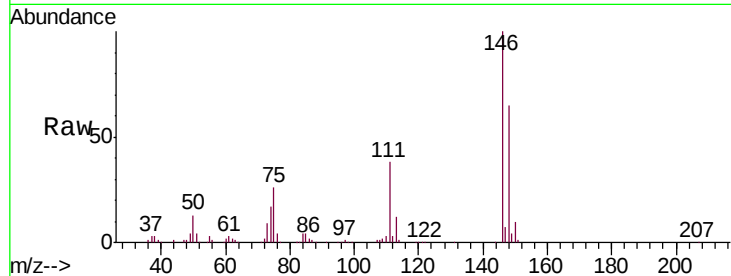
Tgt Ion:146 Resp: 262468

Ion Ratio Lower Upper

146 100

111 38.3 26.0 48.2

148 65.4 43.7 81.1



#63

1,4-Dichlorobenzene

Concen: 4.881 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

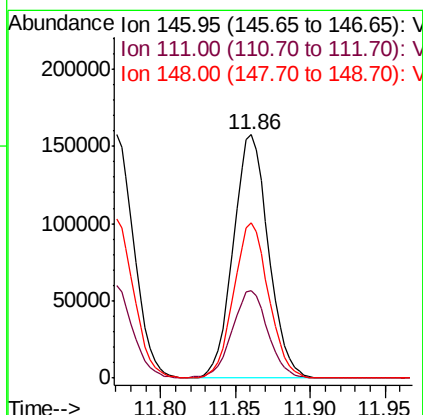
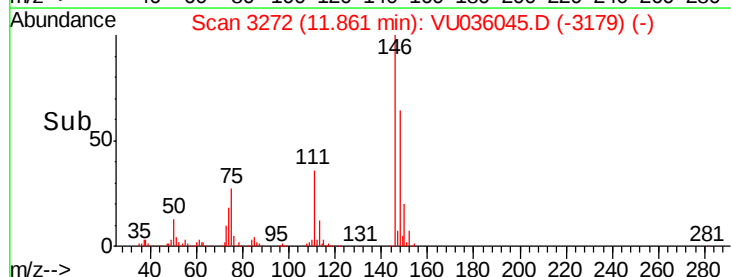
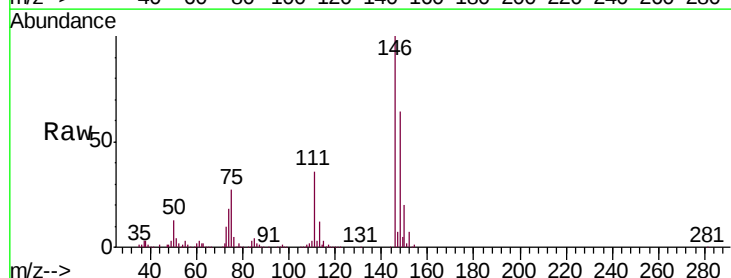
Tgt Ion:146 Resp: 258167

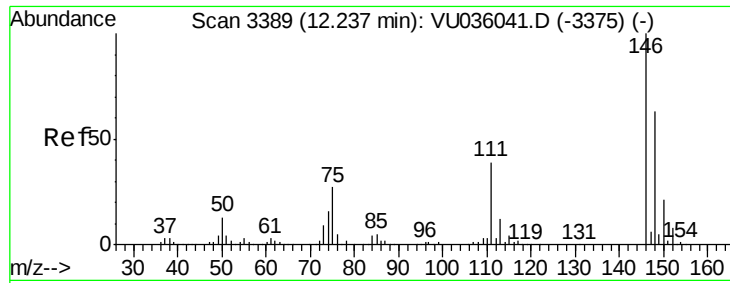
Ion Ratio Lower Upper

146 100

111 36.1 26.2 48.6

148 64.0 44.9 83.5

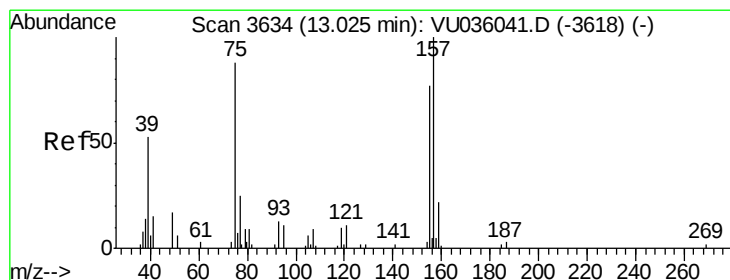
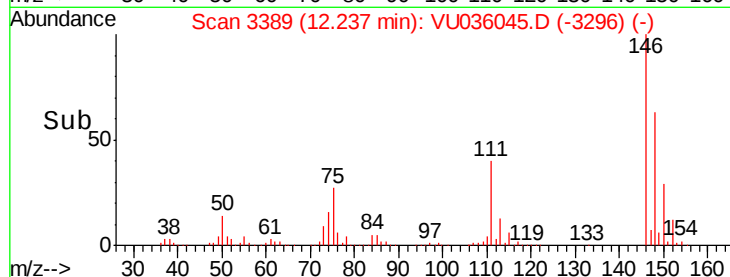
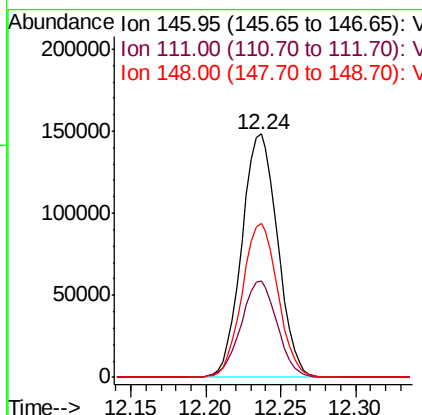
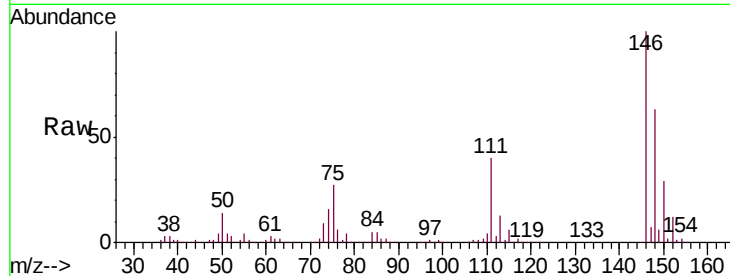




#65
 1,2-Dichlorobenzene
 Concen: 4.660 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

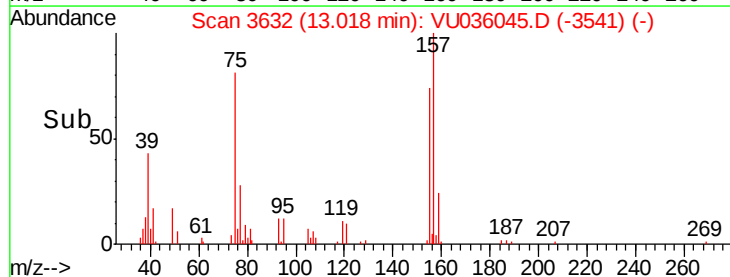
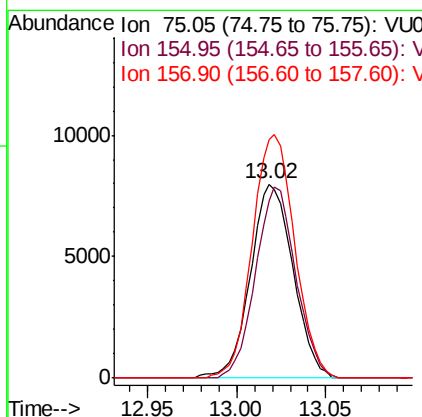
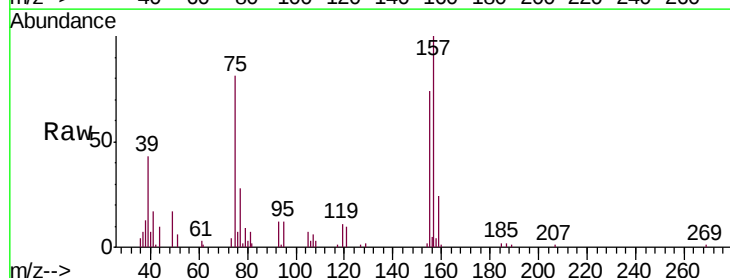
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

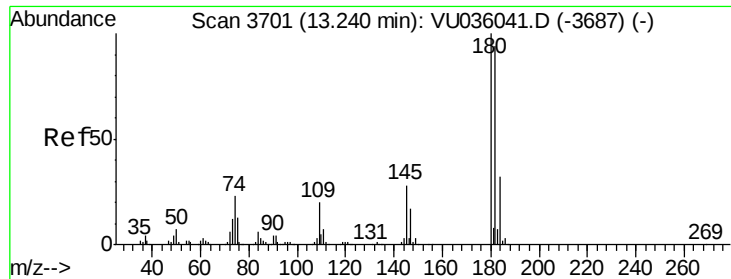
Tgt Ion: 146 Resp: 247197
 Ion Ratio Lower Upper
 146 100
 111 39.8 31.3 46.9
 148 63.3 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.006 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. -0.01 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

Tgt Ion: 75 Resp: 13349
 Ion Ratio Lower Upper
 75 100
 155 91.2 70.0 105.0
 157 123.1 90.5 135.7

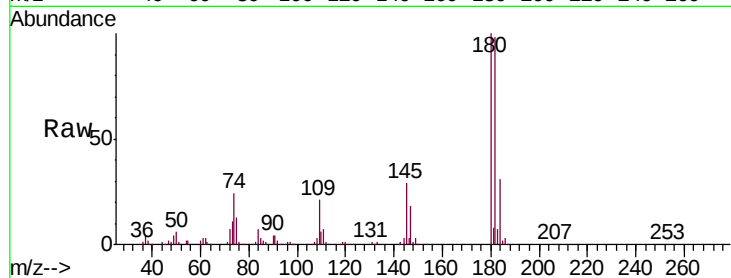




#67
 1,3,5-Trichlorobenzene
 Concen: 5.100 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.4	75.2	112.8
184	30.3	24.2	36.2
145	27.9	21.7	32.5



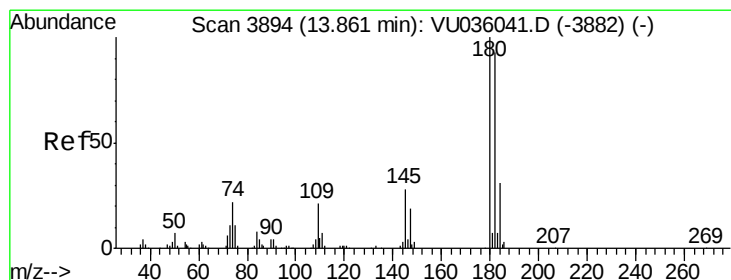
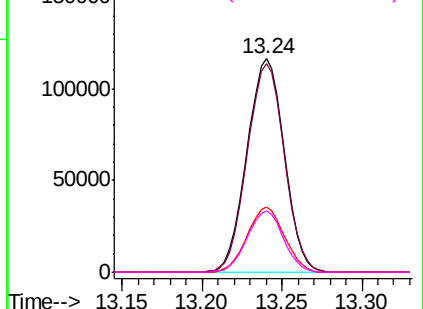
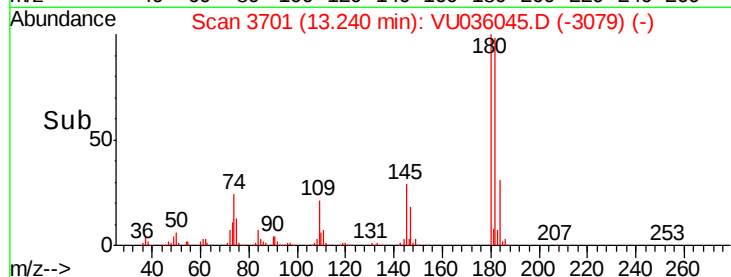
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

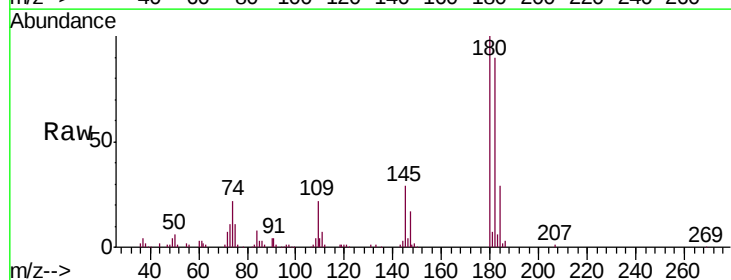
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.307 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036045.D
 Acq: 09 Dec 2019 13:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	74.3	111.5
145	29.1	22.1	33.1

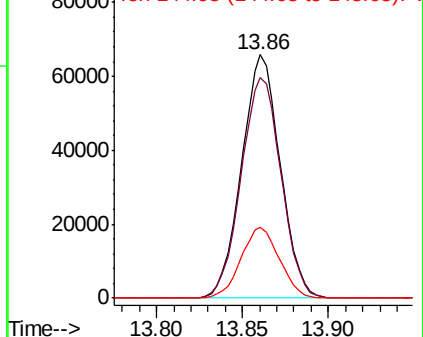
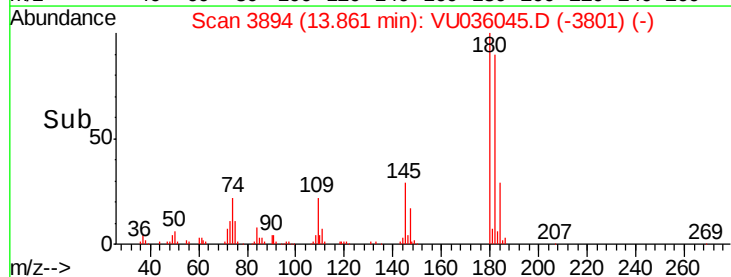


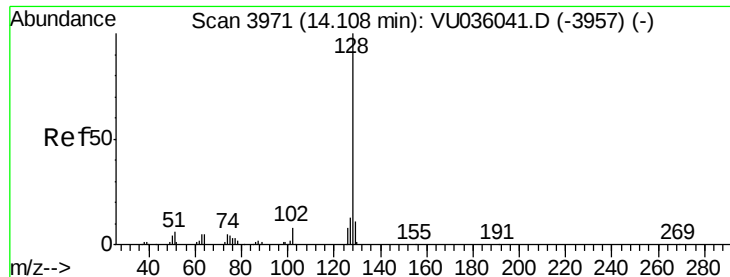
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.975 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. 0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00526

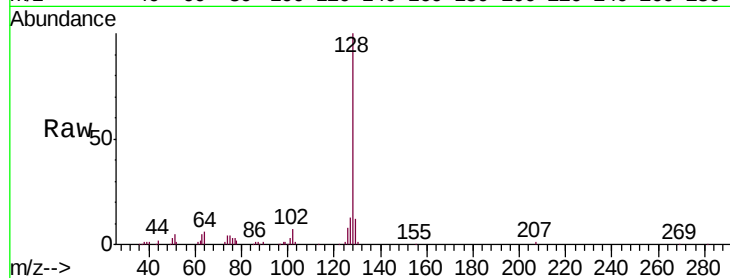
Tgt Ion:128 Resp: 92486

Ion Ratio Lower Upper

128 100

129 11.4 9.2 13.8

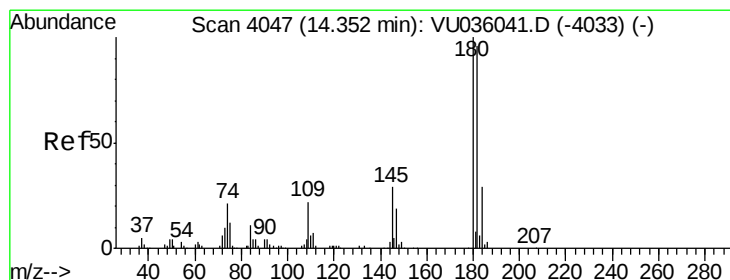
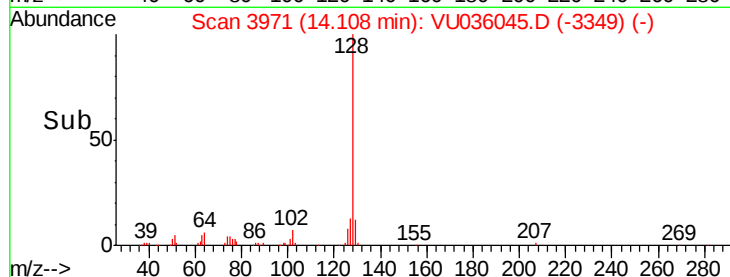
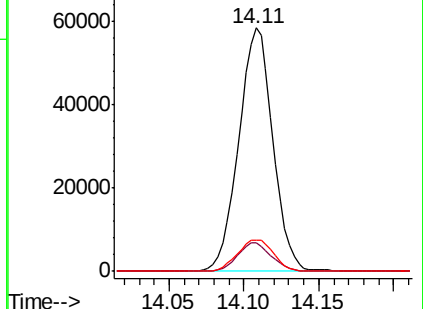
127 13.6 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.348 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. -0.00 min

Lab File: VU036045.D

Acq: 09 Dec 2019 13:38

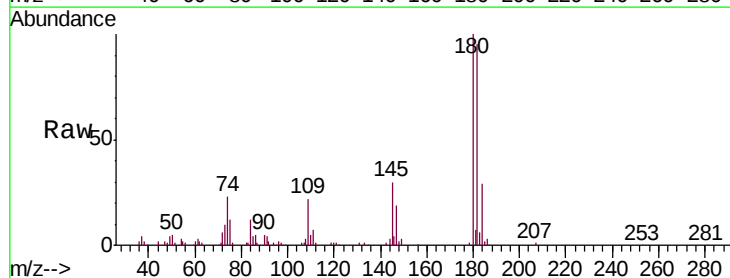
Tgt Ion:180 Resp: 99041

Ion Ratio Lower Upper

180 100

182 95.0 76.9 115.3

145 29.3 23.5 35.3



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

