

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102619\
 Data File : VU035509.D
 Acq On : 26 Oct 2019 11:15
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Quant Time: Oct 30 01:31:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102619WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Oct 30 02:26:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	577392	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	574130	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	258591	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	238587	52.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	104.78%
7) Chloroethane-d5	1.93	69	200787	53.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	106.18%
11) 1,1-Dichloroethene-d2	2.60	63	410848	54.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	108.00%
21) 2-Butanone-d5	4.69	46	304020	101.20	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.20%
24) Chloroform-d	5.11	84	396945	52.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.32%
26) 1,2-Dichloroethane-d4	5.75	65	249485	52.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.70%
32) Benzene-d6	5.77	84	816038	53.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.44%
36) 1,2-Dichloropropane-d6	6.73	67	263382	52.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.24%
41) Toluene-d8	7.93	98	756415	53.94	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.88%
43) trans-1,3-Dichloropropene-	8.21	79	124237	53.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	106.02%
47) 2-Hexanone-d5	8.68	63	198084	107.13	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.13%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	356945	50.67	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.34%
64) 1,2-Dichlorobenzene-d4	12.22	152	248087	49.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.52%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	290811	58.579	ug/L 99
3) Chloromethane	1.54	50	296259	55.917	ug/L 100
5) Vinyl chloride	1.62	62	319582	55.575	ug/L 100
6) Bromomethane	1.87	94	133838	51.077	ug/L 100
8) Chloroethane	1.95	64	190067	55.978	ug/L 99
9) Trichlorofluoromethane	2.16	101	378271	57.358	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	224494	58.020	ug/L 99
12) 1,1-Dichloroethene	2.61	96	208838	57.130	ug/L 96
13) Acetone	2.66	43	357704	118.832	ug/L 99
14) Carbon disulfide	2.82	76	667363	56.197	ug/L 99
15) Methyl Acetate	2.99	43	275563	55.701	ug/L 99
16) Methylene chloride	3.08	84	255994	56.301	ug/L 99
17) trans-1,2-Dichloroethene	3.39	96	222306	56.895	ug/L 99
18) Methyl tert-butyl Ether	3.42	73	681737	55.996	ug/L 99
19) 1,1-Dichloroethane	3.92	63	448114	55.966	ug/L 99
20) cis-1,2-Dichloroethene	4.72	96	248353	56.534	ug/L 100
22) 2-Butanone	4.77	43	439637	116.716	ug/L 97

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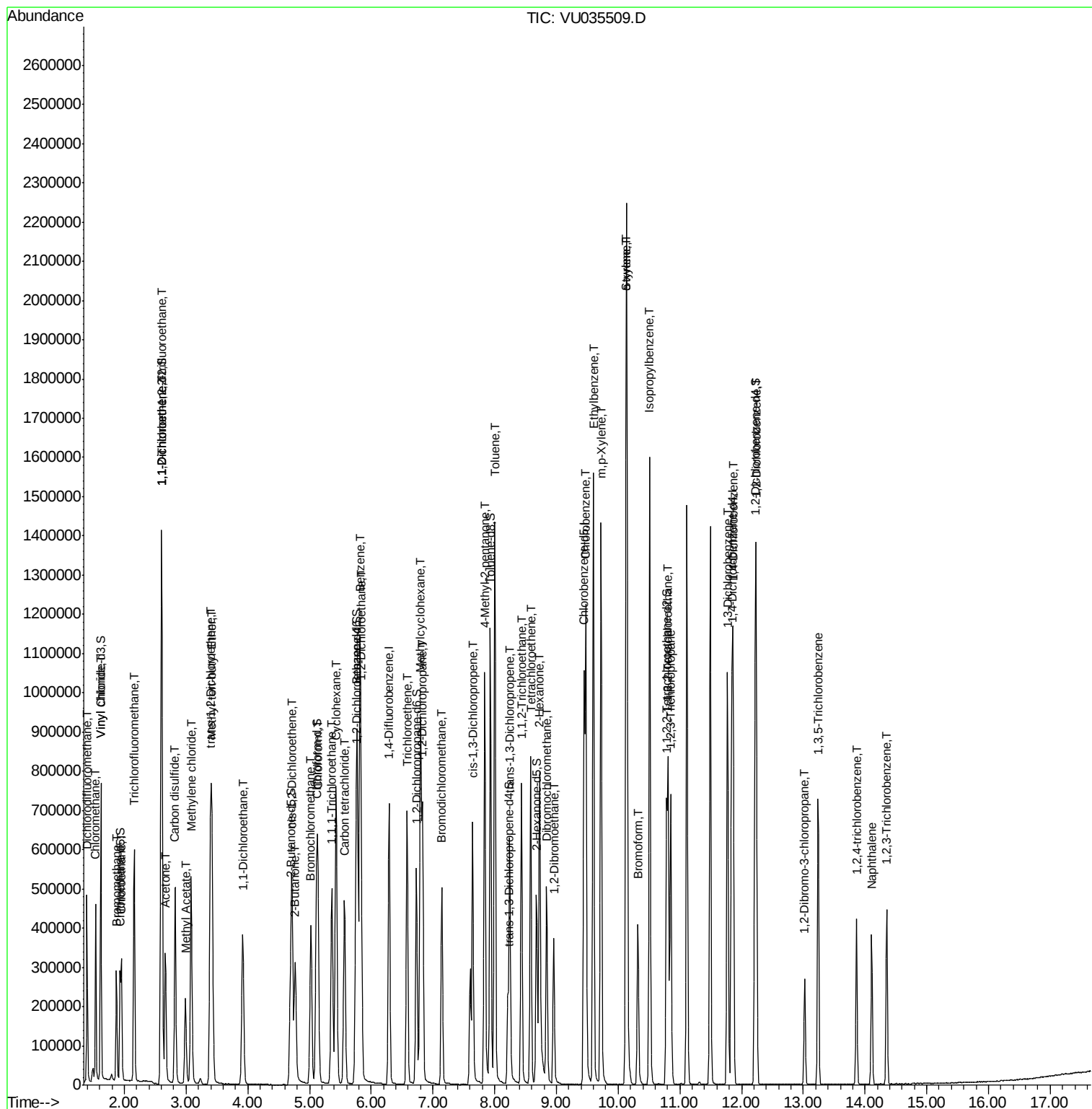
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	127072	56.759	ug/L	99
25) Chloroform	5.14	83	446191	56.494	ug/L	100
27) 1,2-Dichloroethane	5.84	62	336782	55.379	ug/L	100
29) Cyclohexane	5.43	56	375634	57.754	ug/L	100
30) 1,1,1-Trichloroethane	5.36	97	359101	56.206	ug/L	100
31) Carbon tetrachloride	5.57	117	319225	56.866	ug/L	99
33) Benzene	5.82	78	982349	56.731	ug/L	100
34) Trichloroethene	6.58	95	233532	54.926	ug/L	99
35) Methylcyclohexane	6.80	83	352265	59.558	ug/L	99
37) 1,2-Dichloropropane	6.83	63	265273	56.045	ug/L	99
38) Bromodichloromethane	7.14	83	329702	55.998	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	380941	54.392	ug/L	100
40) 4-Methyl-2-pentanone	7.84	43	696481	107.898	ug/L	100
42) Toluene	8.00	91	1028503	57.591	ug/L	99
44) trans-1,3-Dichloropropene	8.24	75	363802	56.933	ug/L	100
45) 1,1,2-Trichloroethane	8.43	97	239512	55.331	ug/L	98
46) Tetrachloroethene	8.58	164	188403	56.674	ug/L	99
48) 2-Hexanone	8.73	43	567690	107.398	ug/L	96
49) Dibromochloromethane	8.84	129	256917	54.954	ug/L	99
50) 1,2-Dibromoethane	8.96	107	255135	56.023	ug/L	100
51) Chlorobenzene	9.48	112	645582	55.647	ug/L	98
52) Ethylbenzene	9.60	91	1102583	57.950	ug/L	100
53) m,p-Xylene	9.72	106	420970	59.691	ug/L	99
54) o-xylene	10.13	106	403722	58.502	ug/L	98
55) Styrene	10.14	104	684751	60.801	ug/L	99
56) Isopropylbenzene	10.51	105	1022751	58.904	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	414730	54.221	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	323815	53.229	ug/L	99
61) Bromoform	10.32	173	192943	49.422	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	441724	53.517	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	438181	52.177	ug/L	98
65) 1,2-Dichlorobenzene	12.24	146	445464	53.009	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	67978	48.695	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	230637	54.721	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	130077	49.112	ug/L	99
69) Naphthalene	14.11	128	300893	40.846	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	137754	50.322	ug/L	99

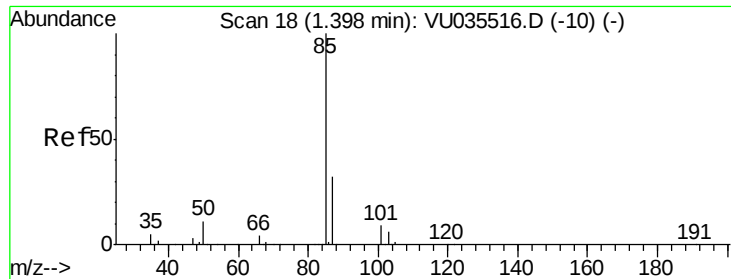
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 58.579 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

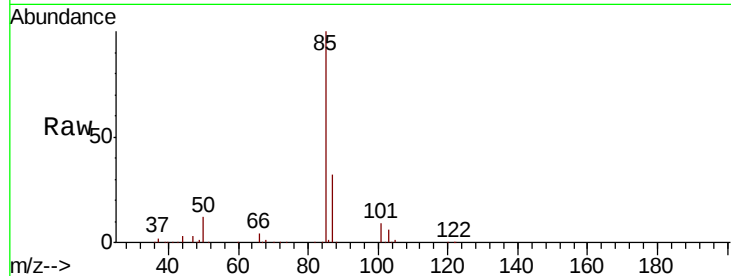
VSTD05057

Tot Ion: 85 Resp: 290811

Ion Ratio Lower Upper

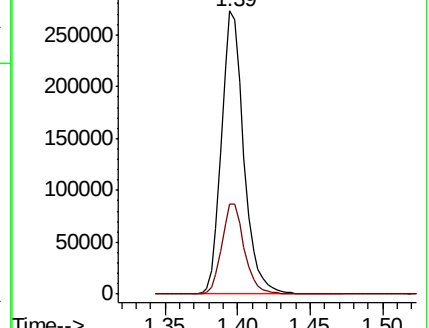
85 100

87 32.2 26.2 39.2

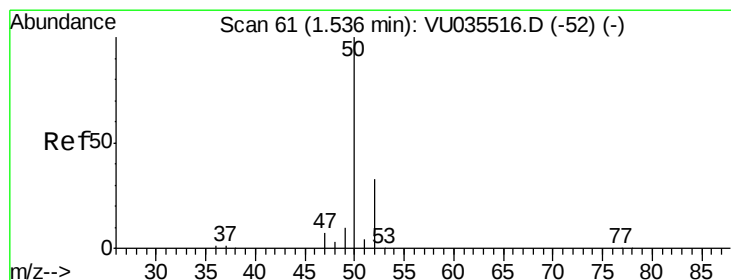
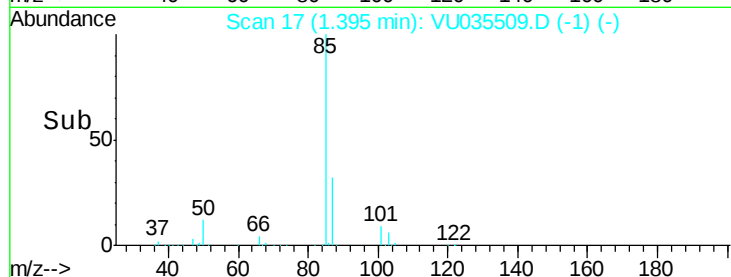


Abundance Ion 85.00 (84.70 to 85.70): VU035516.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU035516.D (-10) (-)



Time-->



#3

Chloromethane

Concen: 55.917 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU035509.D

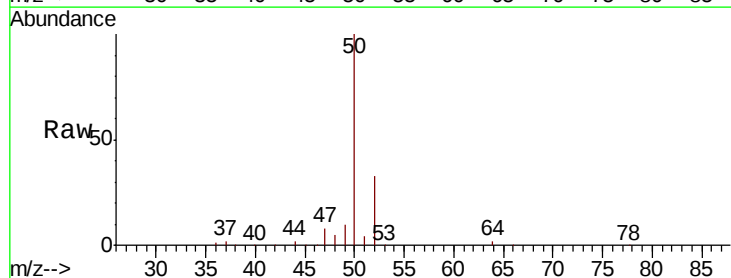
Acq: 26 Oct 2019 11:15

Tgt Ion: 50 Resp: 296259

Ion Ratio Lower Upper

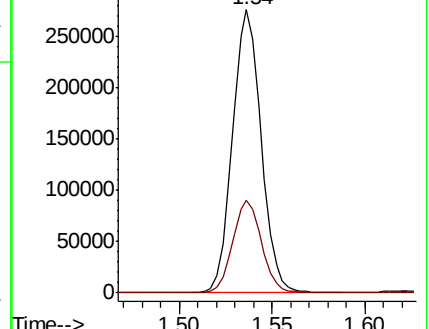
50 100

52 32.7 22.7 42.3

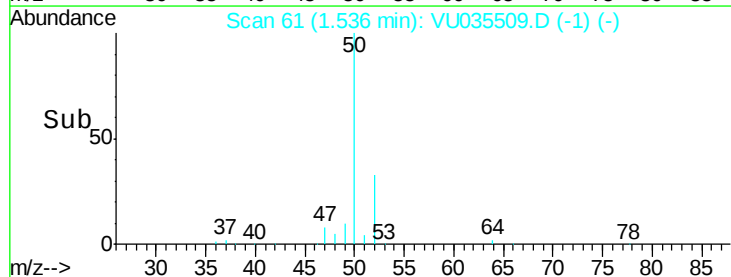


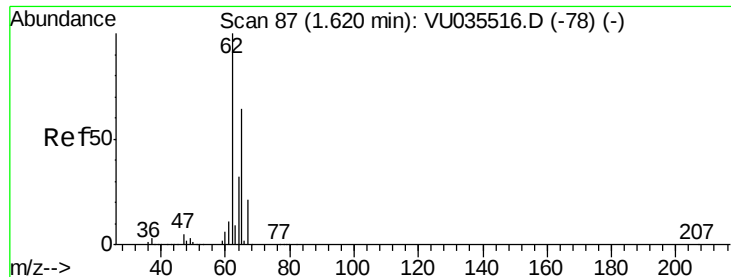
Abundance Ion 50.00 (49.70 to 50.70): VU035516.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU035516.D (-52) (-)



Time-->





#5

Vinyl chloride

Concen: 55.575 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

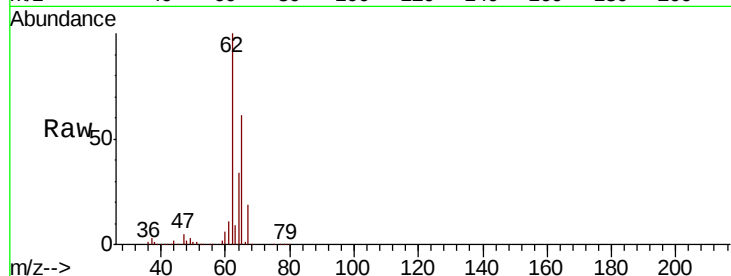
VSTD05057

Tot Ion: 62 Resp: 319582

Ion Ratio Lower Upper

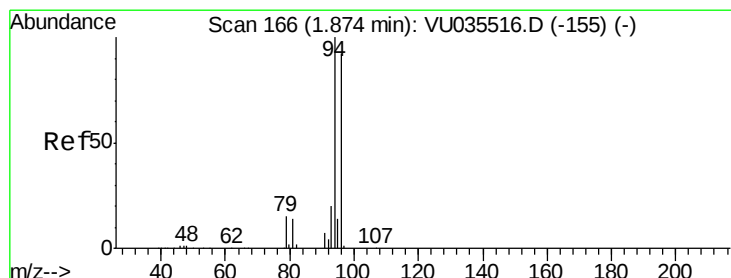
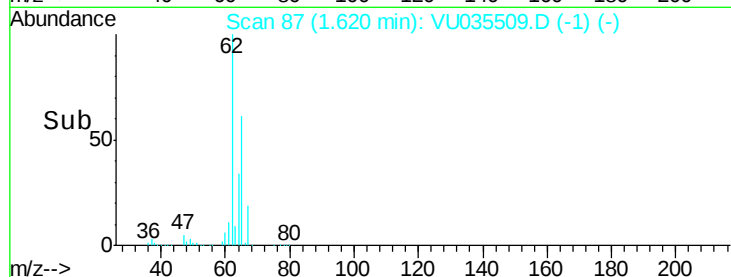
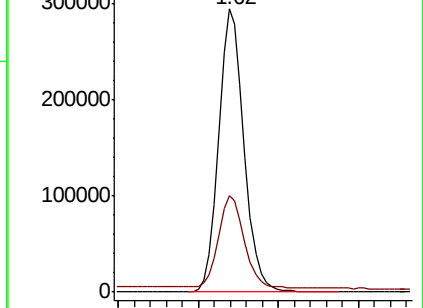
62 100

64 34.2 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU035509.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU035509.D (-1) (-)



#6

Bromomethane

Concen: 51.077 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU035509.D

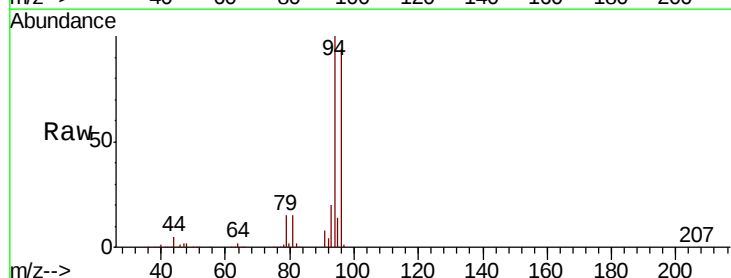
Acq: 26 Oct 2019 11:15

Tgt Ion: 94 Resp: 133838

Ion Ratio Lower Upper

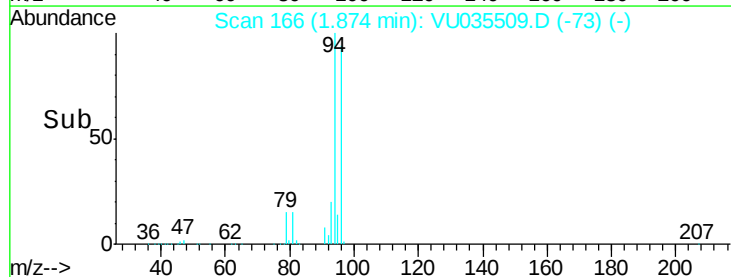
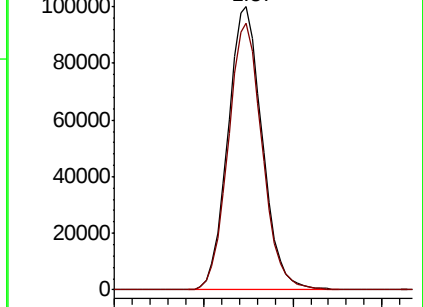
94 100

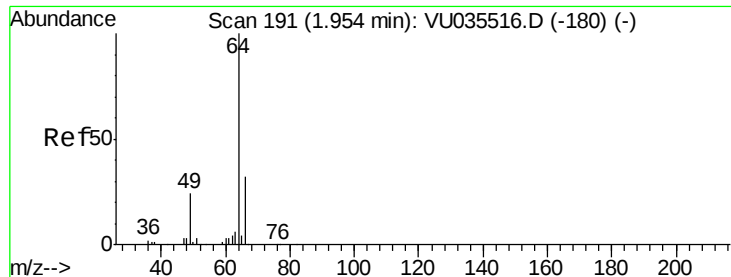
96 94.0 65.7 121.9



Abundance Ion 94.00 (93.70 to 94.70): VU035509.D (-73) (-)

Ion 96.00 (95.70 to 96.70): VU035509.D (-73) (-)





#8

Chloroethane

Concen: 55.978 ug/L

RT: 1.95 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

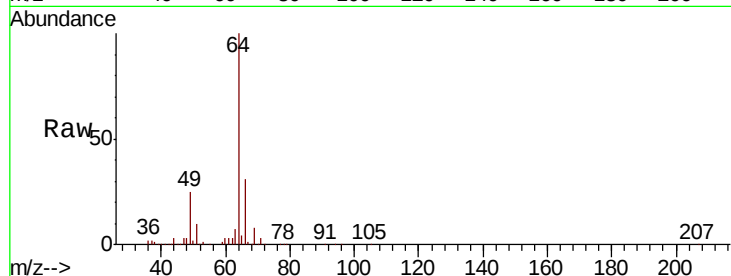
VSTD05057

Tot Ion: 64 Resp: 190067

Ion Ratio Lower Upper

64 100

66 31.4 22.3 41.5



Abundance Ion 64.00 (63.70 to 64.70): VU035516.D (-180) (-)

Ion 66.00 (65.70 to 66.70): VU035516.D (-180) (-)

1.95

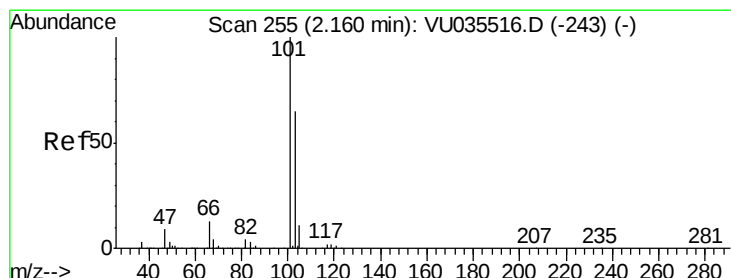
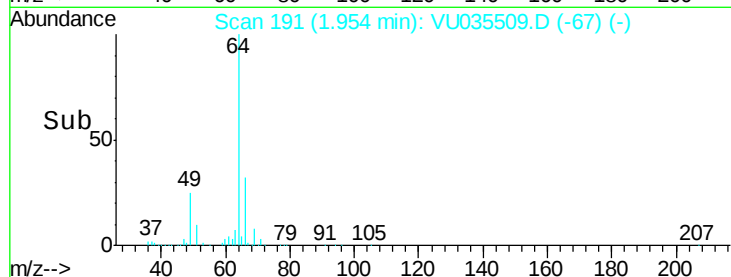
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 57.358 ug/L

RT: 2.16 min Scan# 255

Delta R.T. -0.00 min

Lab File: VU035509.D

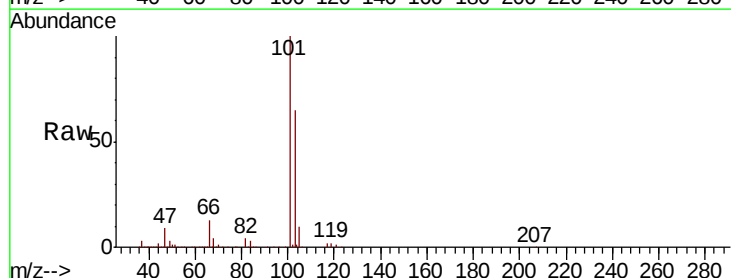
Acq: 26 Oct 2019 11:15

Tgt Ion: 101 Resp: 378271

Ion Ratio Lower Upper

101 100

103 64.6 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VU035516.D (-243) (-)

Ion 103.00 (102.70 to 103.70): VU035516.D (-243) (-)

2.16

300000

250000

200000

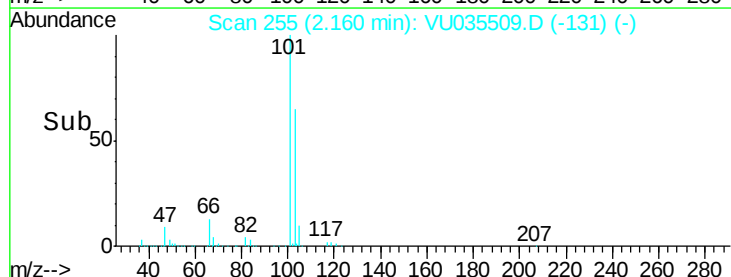
150000

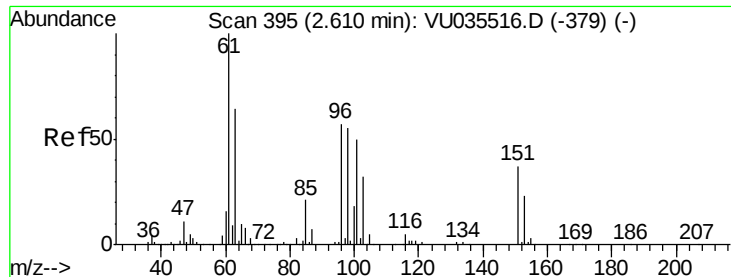
100000

50000

0

Time-->





#10

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

Concen: 58.020 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

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ClientSampleId :

VSTD05057

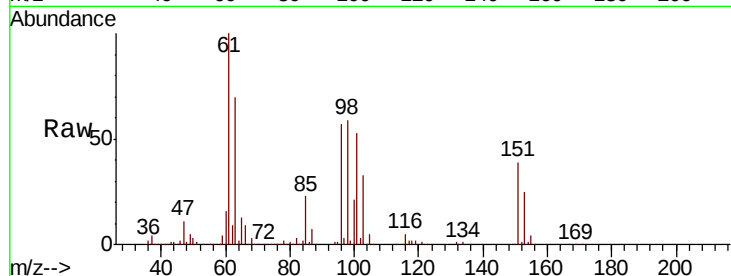
Tot Ion:101 Resp: 224494

Ion Ratio Lower Upper

101 100

85 42.4 34.6 52.0

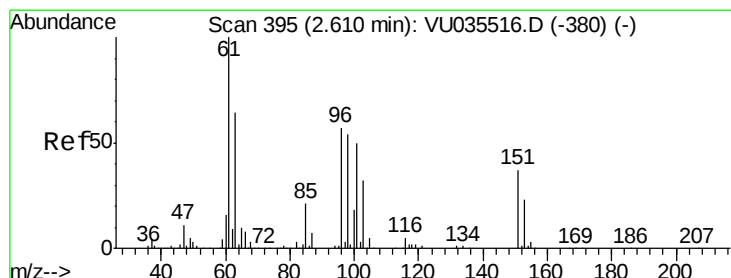
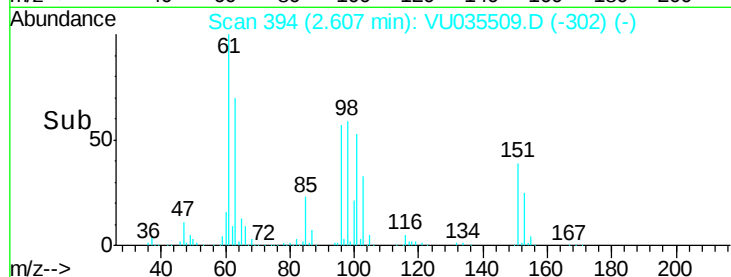
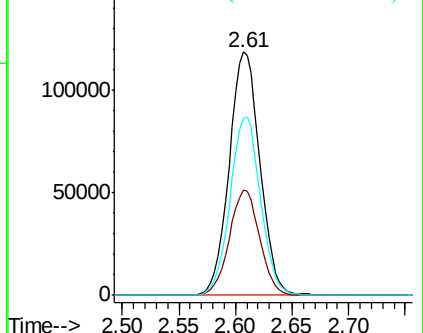
151 72.6 58.6 88.0



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: 57.130 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

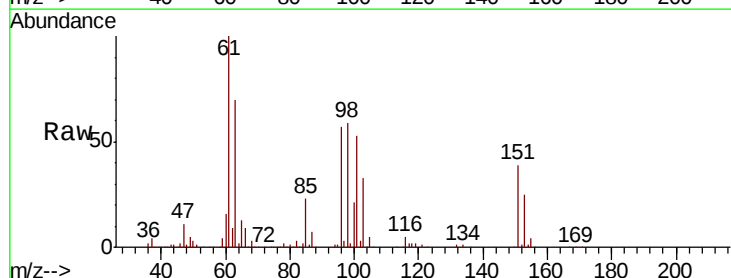
Tgt Ion: 96 Resp: 208838

Ion Ratio Lower Upper

96 100

61 174.2 125.2 232.4

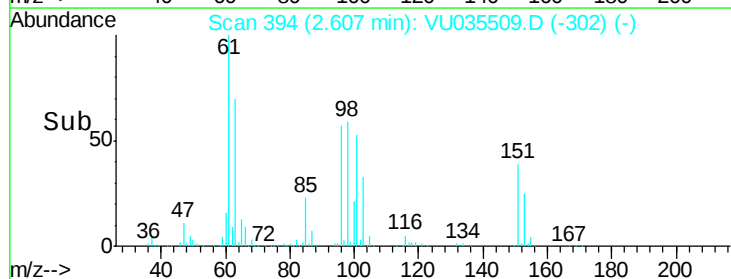
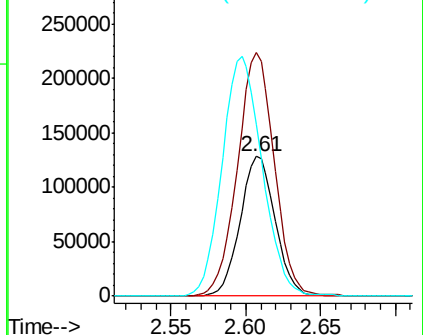
63 122.6 81.8 151.8

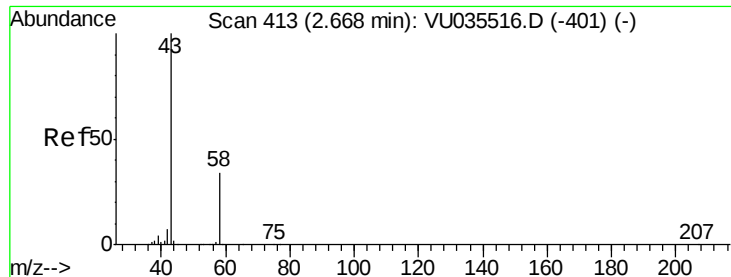


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 118.832 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

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ClientSampleId :

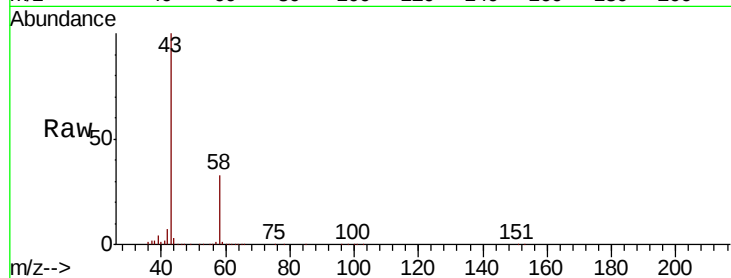
VSTD05057

Tot Ion: 43 Resp: 357704

Ion Ratio Lower Upper

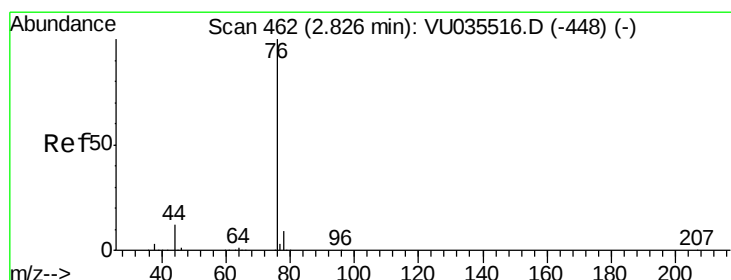
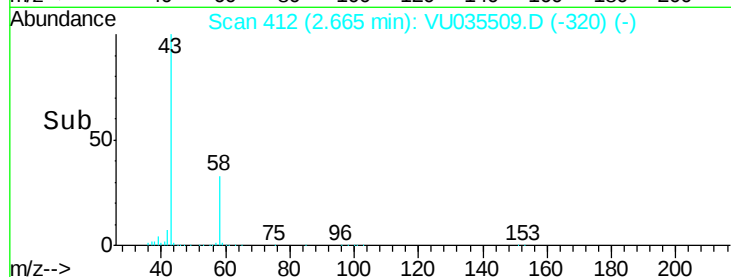
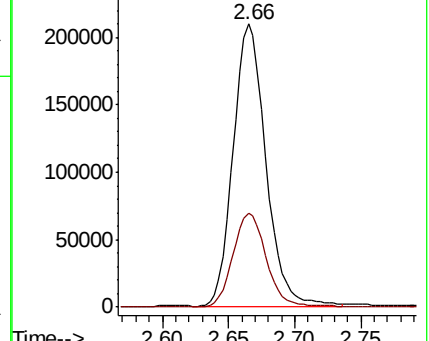
43 100

58 33.8 0.0 66.6



Abundance Ion 43.00 (42.70 to 43.70): VU035509.D (-320) (-)

Ion 58.00 (57.70 to 58.70): VU035509.D (-320) (-)



#14

Carbon disulfide

Concen: 56.197 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU035509.D

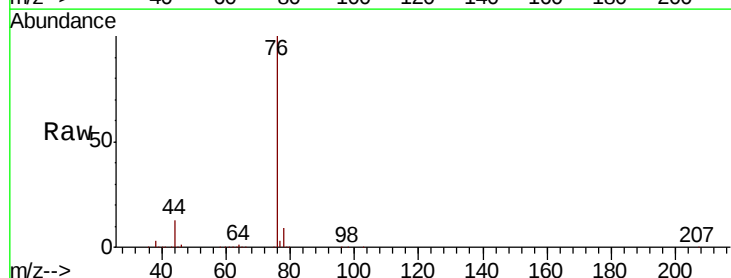
Acq: 26 Oct 2019 11:15

Tgt Ion: 76 Resp: 667363

Ion Ratio Lower Upper

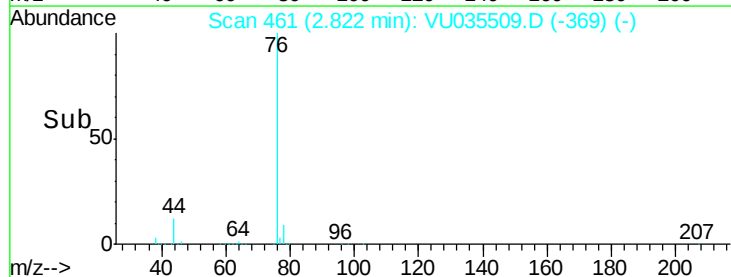
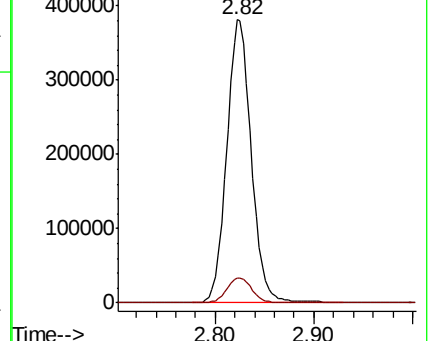
76 100

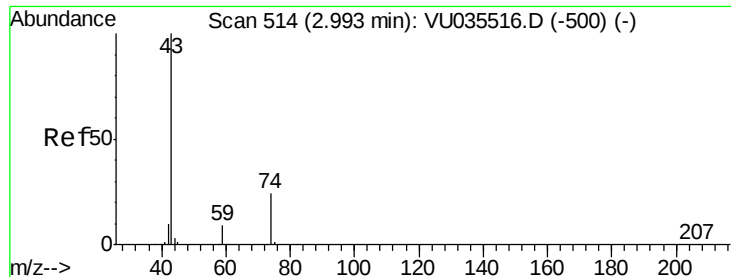
78 8.9 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU035509.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VU035509.D (-369) (-)

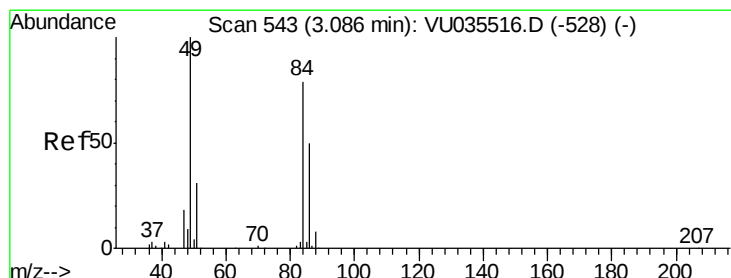
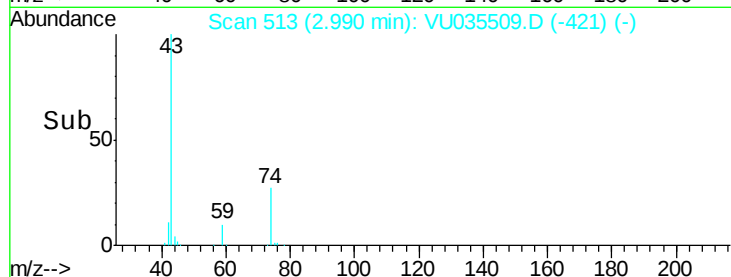
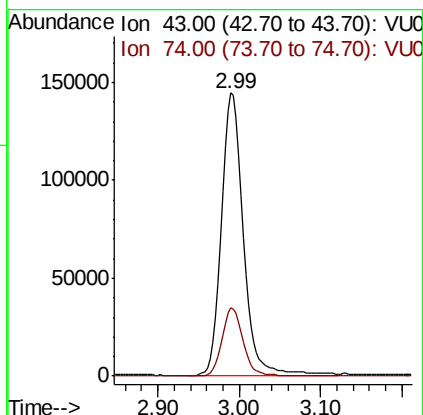
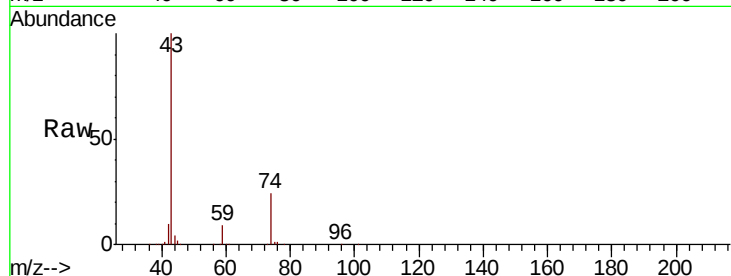




#15
Methvl Acetate
Concen: 55.701 ug/L
RT: 2.99 min Scan# 513
Delta R.T. -0.00 min
Lab File: VU035509.D
Acq: 26 Oct 2019 11:15

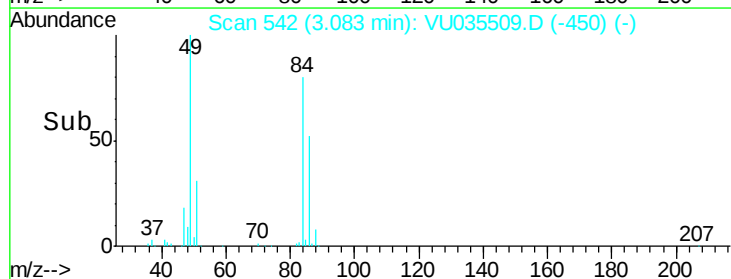
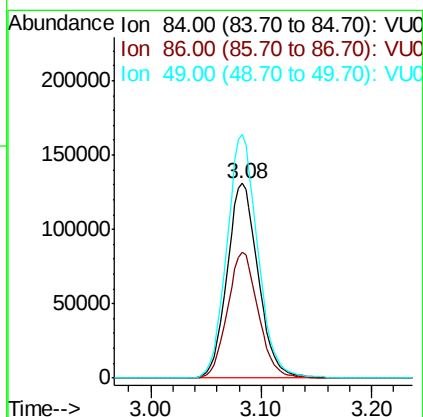
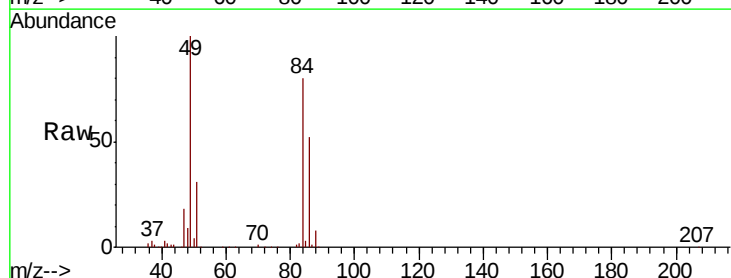
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

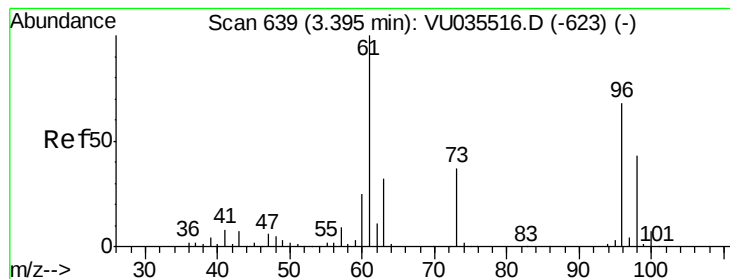
Tot Ion: 43 Resp: 275563
Ion Ratio Lower Upper
43 100
74 23.1 19.0 28.6



#16
Methylene chloride
Concen: 56.301 ug/L
RT: 3.08 min Scan# 542
Delta R.T. -0.00 min
Lab File: VU035509.D
Acq: 26 Oct 2019 11:15

Tgt Ion: 84 Resp: 255994
Ion Ratio Lower Upper
84 100
86 64.8 45.5 84.5
49 125.0 88.3 163.9





#17

trans-1,2-Dichloroethene

Concen: 56.895 ug/L

RT: 3.39 min Scan# 638

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

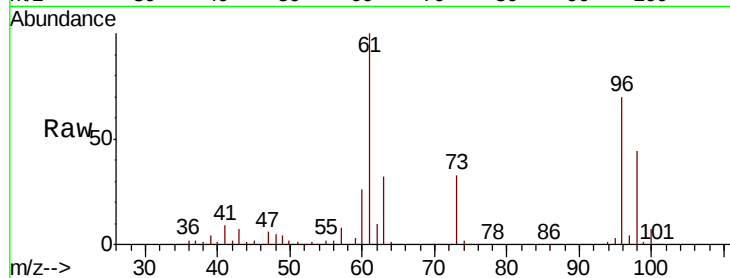
Tot Ion: 96 Resp: 222306

Ion Ratio Lower Upper

96 100

61 142.9 101.2 188.0

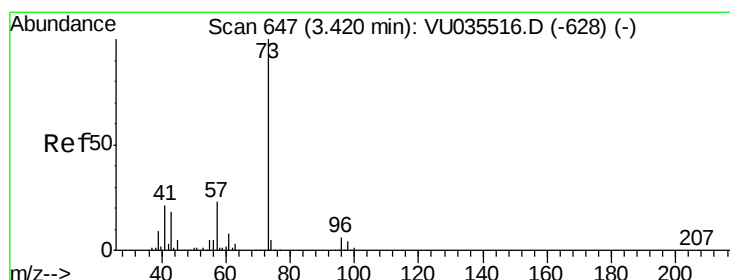
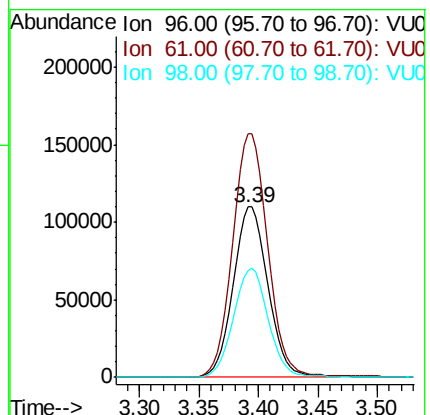
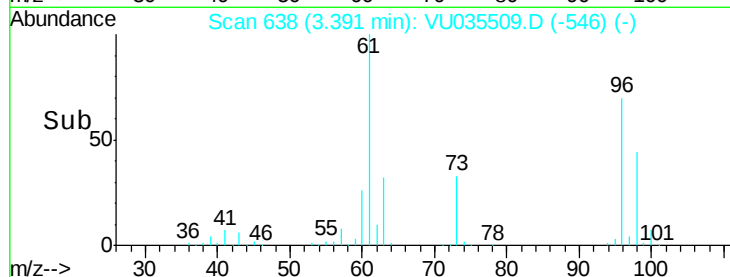
98 62.8 43.6 81.0



Abundance Ion 96.00 (95.70 to 96.70): VU035509.D (-546) (-)

Ion 61.00 (60.70 to 61.70): VU035509.D (-546) (-)

Ion 98.00 (97.70 to 98.70): VU035509.D (-546) (-)



#18

Methyl tert-butyl Ether

Concen: 55.996 ug/L

RT: 3.42 min Scan# 647

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

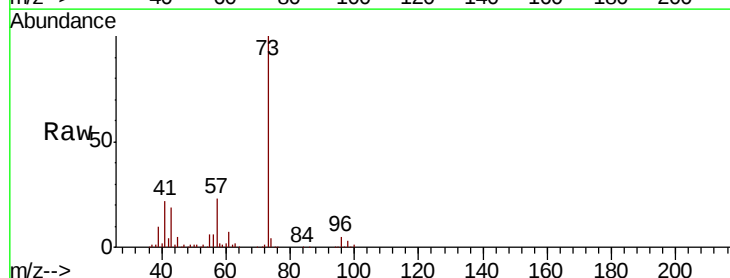
Tgt Ion: 73 Resp: 681737

Ion Ratio Lower Upper

73 100

43 18.9 15.2 22.8

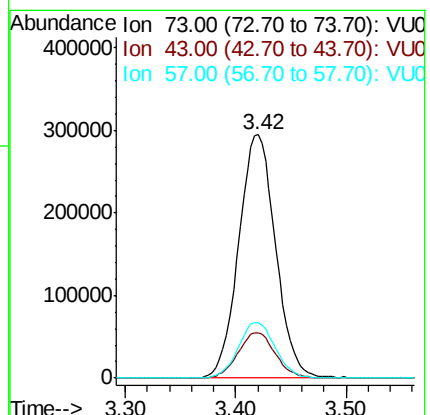
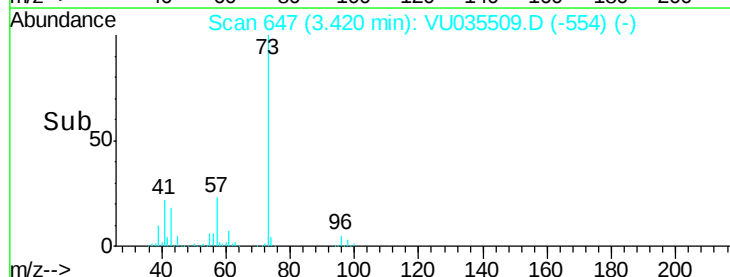
57 23.1 18.7 28.1

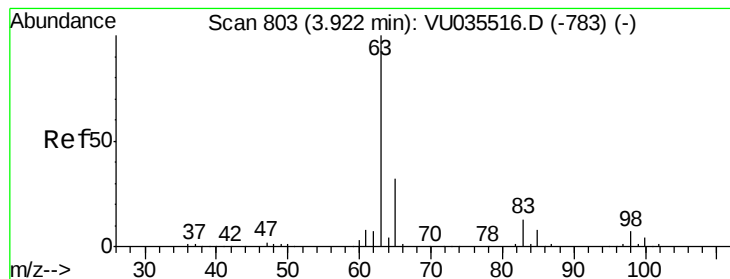


Abundance Ion 73.00 (72.70 to 73.70): VU035509.D (-554) (-)

Ion 43.00 (42.70 to 43.70): VU035509.D (-554) (-)

Ion 57.00 (56.70 to 57.70): VU035509.D (-554) (-)





#19

1,1-Dichloroethane

Concen: 55.966 ug/L

RT: 3.92 min Scan# 802

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

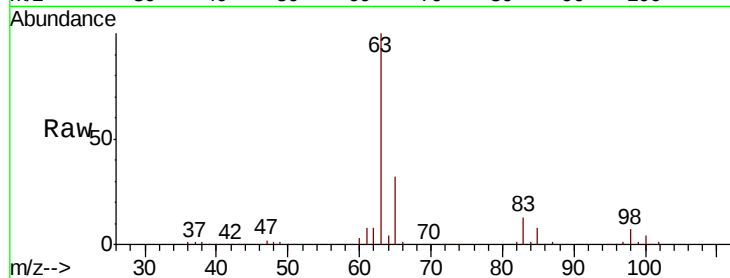
Tot Ion: 63 Resp: 448114

Ion Ratio Lower Upper

63 100

65 31.9 21.7 40.3

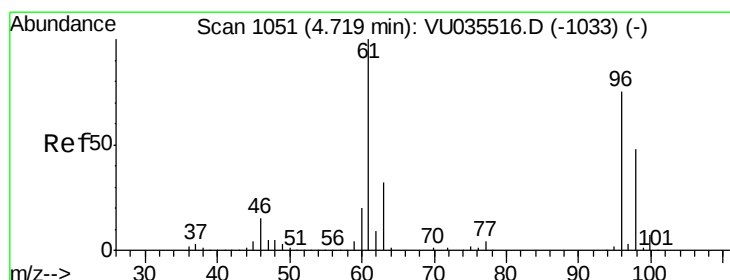
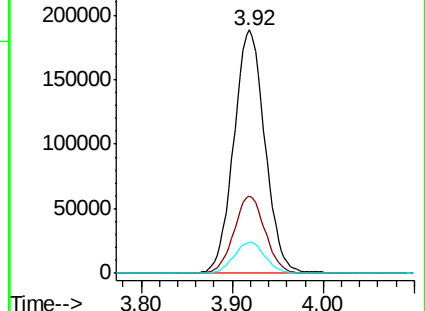
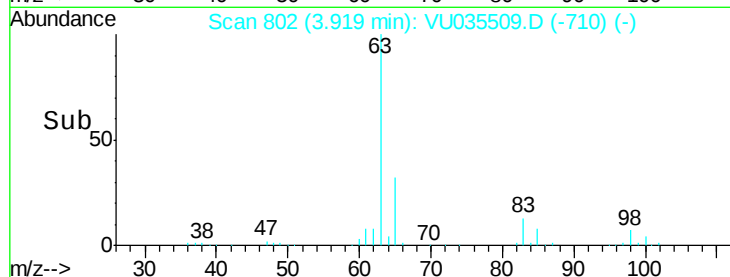
83 12.7 8.7 16.1



Abundance Ion 63.00 (62.70 to 63.70): VU035509.D (-710) (-)

Ion 65.00 (64.70 to 65.70): VU035509.D (-710) (-)

Ion 83.00 (82.70 to 83.70): VU035509.D (-710) (-)



#20

cis-1,2-Dichloroethene

Concen: 56.534 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

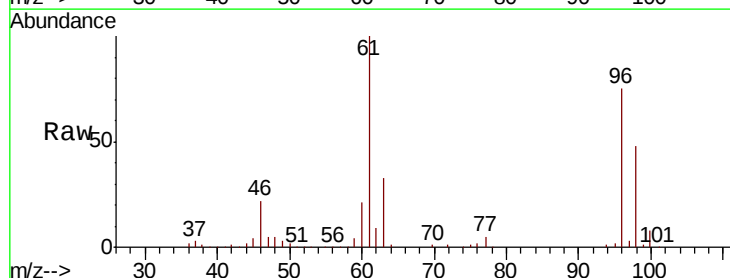
Tgt Ion: 96 Resp: 248353

Ion Ratio Lower Upper

96 100

61 133.2 93.0 172.8

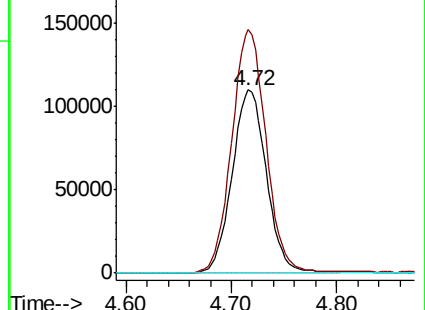
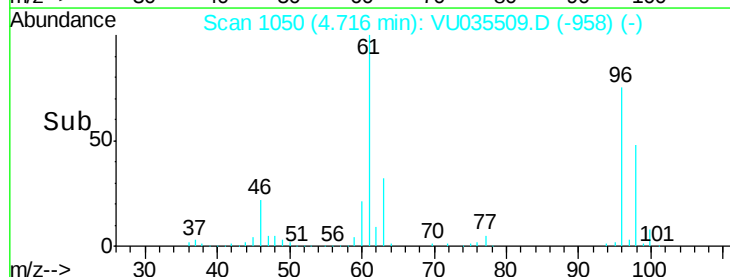
68 0.0 0.0 0.0

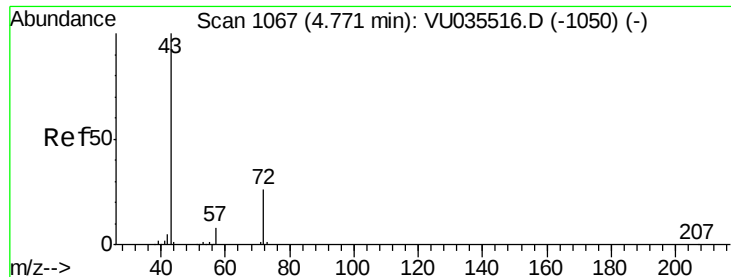


Abundance Ion 96.00 (95.70 to 96.70): VU035509.D (-958) (-)

Ion 61.00 (60.70 to 61.70): VU035509.D (-958) (-)

Ion 68.00 (67.70 to 68.70): VU035509.D (-958) (-)





#22

2-Butanone

Concen: 116.716 ug/L

RT: 4.77 min Scan# 1066

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

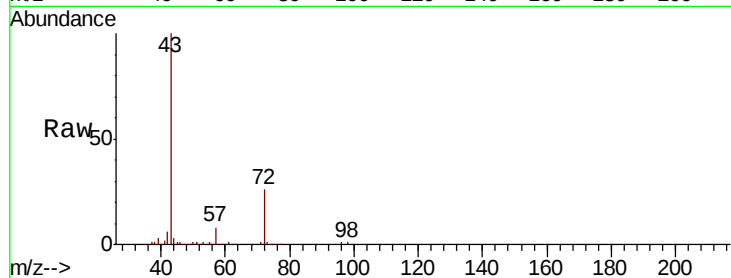
VSTD05057

Tot Ion: 43 Resp: 439637

Ion Ratio Lower Upper

43 100

72 25.2 13.4 40.1



Abundance Ion 43.00 (42.70 to 43.70): VU035516.D (-1050) (-)

Ion 72.00 (71.70 to 72.70): VU035516.D (-1050) (-)

4.77

200000

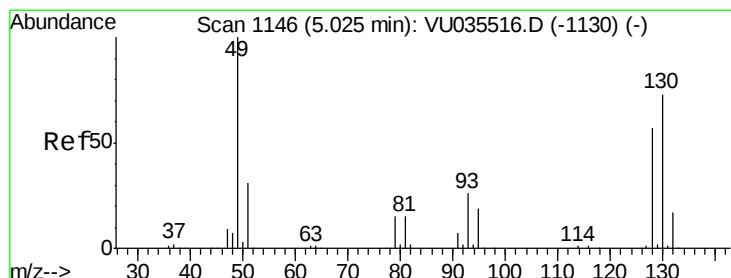
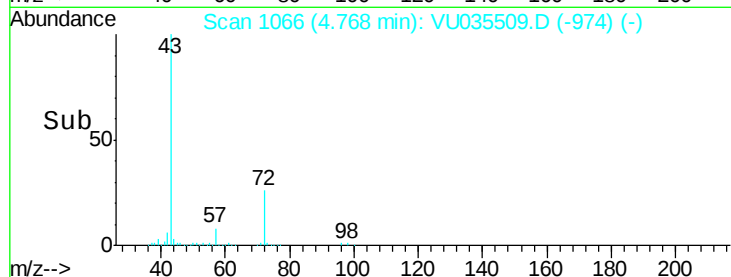
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 56.759 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Tgt Ion: 128 Resp: 127072

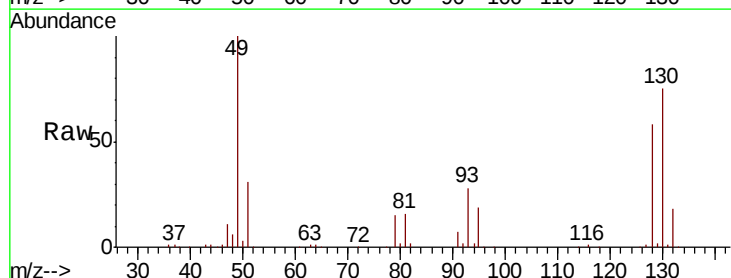
Ion Ratio Lower Upper

128 100

49 173.2 121.1 224.9

130 130.2 89.0 165.2

51 54.2 43.8 65.8



Abundance Ion 128.00 (127.70 to 128.70): VU035516.D (-1130) (-)

Ion 49.00 (48.70 to 49.70): VU035516.D (-1130) (-)

Ion 130.00 (129.70 to 130.70): VU035516.D (-1130) (-)

Ion 51.00 (50.70 to 51.70): VU035516.D (-1130) (-)

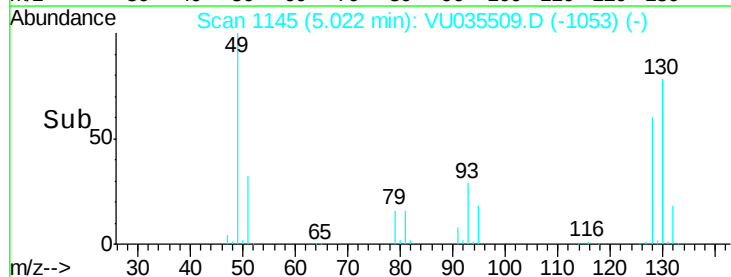
150000

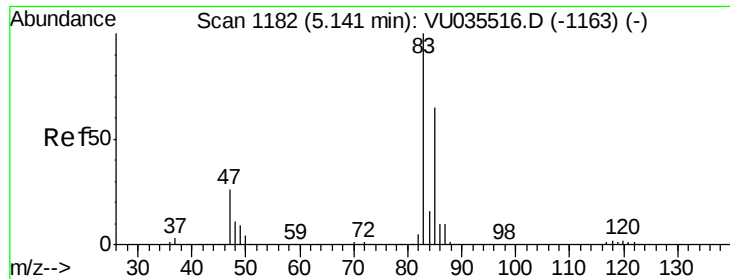
100000

50000

0

Time-->





#25

Chloroform

Concen: 56.494 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

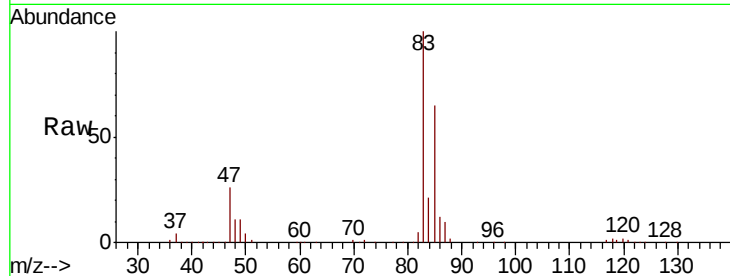
VSTD05057

Tot Ion: 83 Resp: 446191

Ion Ratio Lower Upper

83 100

85 64.7 45.1 83.9



Abundance Ion 83.00 (82.70 to 83.70): VU035516.D (-1163) (-)

Ion 85.00 (84.70 to 85.70): VU035516.D (-1163) (-)

5.14

200000

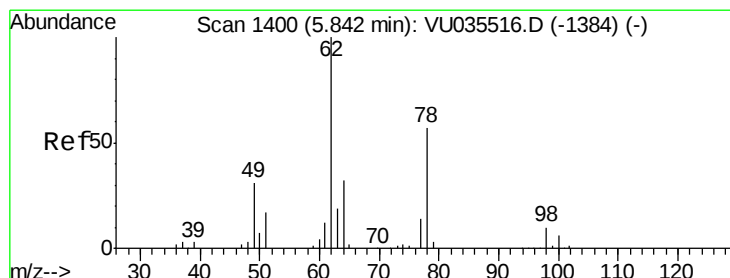
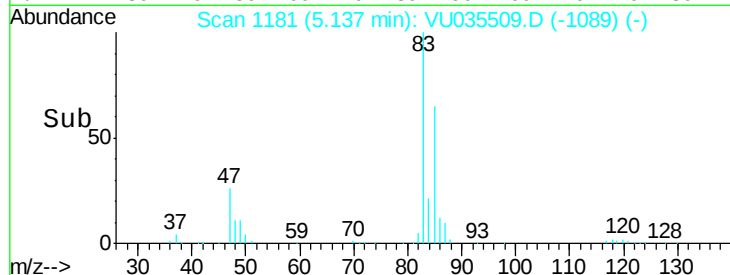
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 55.379 ug/L

RT: 5.84 min Scan# 1400

Delta R.T. -0.00 min

Lab File: VU035509.D

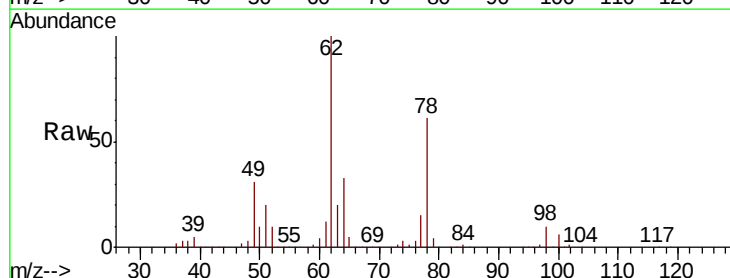
Acq: 26 Oct 2019 11:15

Tgt Ion: 62 Resp: 336782

Ion Ratio Lower Upper

62 100

98 9.8 7.8 11.6



Abundance Ion 62.00 (61.70 to 62.70): VU035516.D (-1384) (-)

Ion 98.00 (97.70 to 98.70): VU035516.D (-1384) (-)

5.84

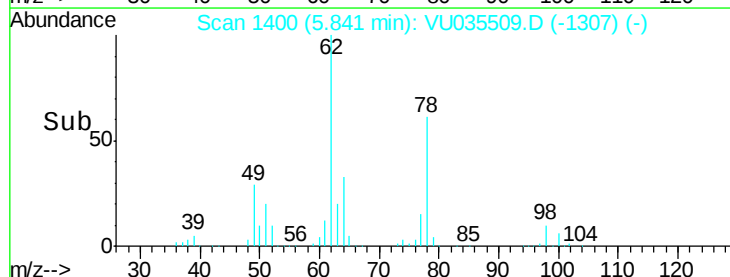
150000

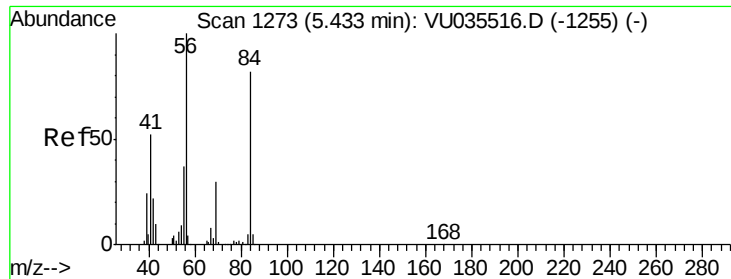
100000

50000

0

Time-->

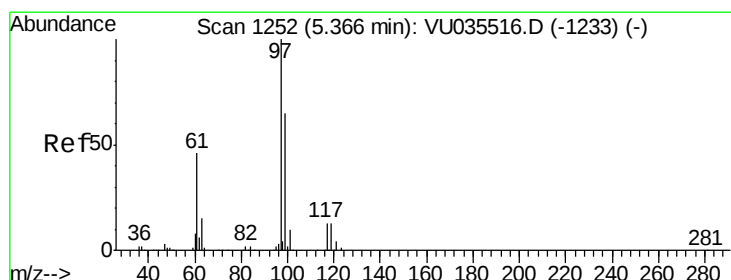
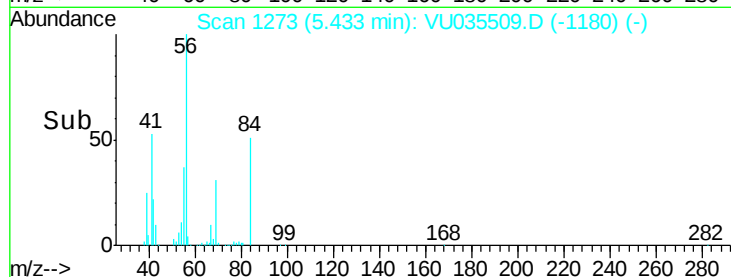
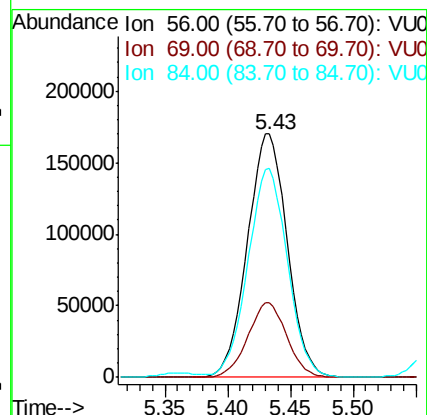
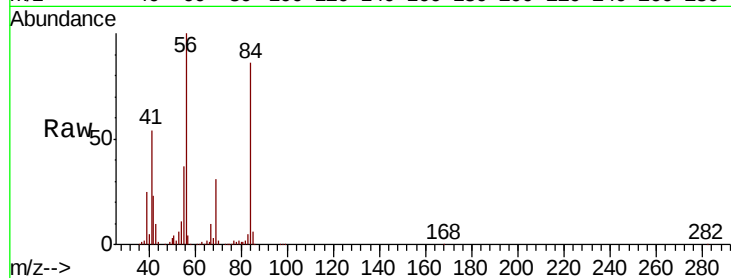




#29
Cyclohexane
Concen: 57.754 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VU035509.D
Acq: 26 Oct 2019 11:15

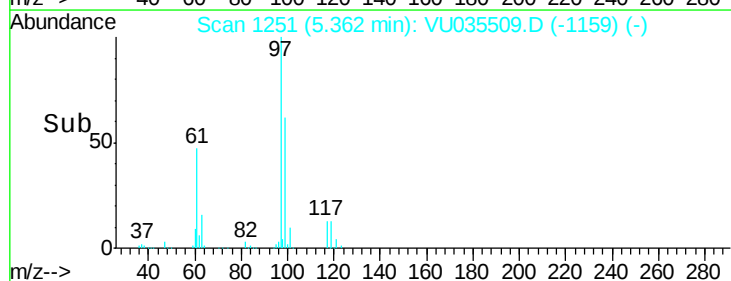
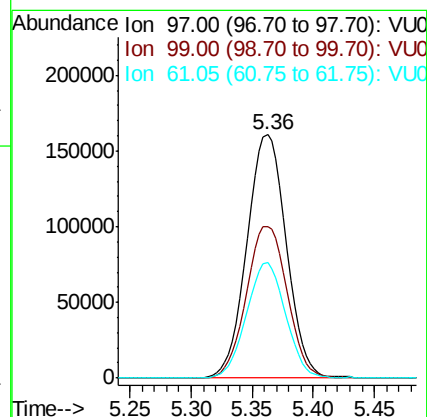
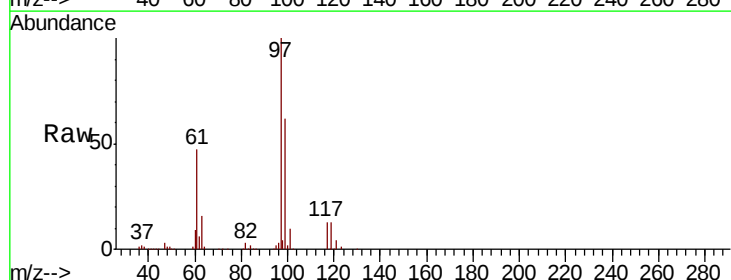
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

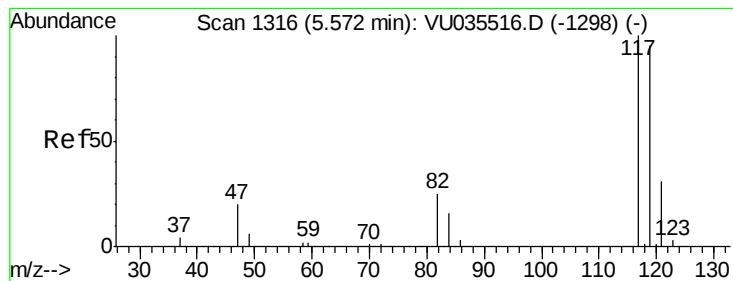
Tot Ion: 56 Resp: 375634
Ion Ratio Lower Upper
56 100
69 30.0 23.7 35.5
84 84.7 67.7 101.5



#30
1,1,1-Trichloroethane
Concen: 56.206 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU035509.D
Acq: 26 Oct 2019 11:15

Tgt Ion: 97 Resp: 359101
Ion Ratio Lower Upper
97 100
99 64.7 51.6 77.4
61 46.9 37.3 55.9





#31

Carbon tetrachloride

Concen: 56.866 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

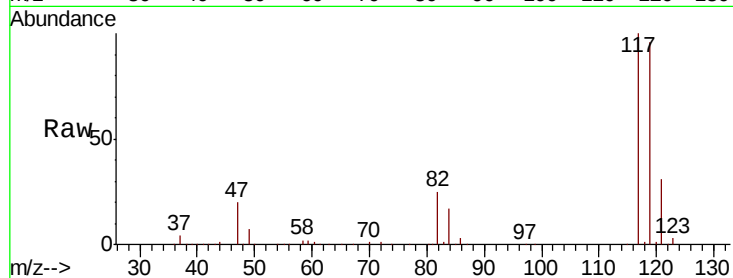
VSTD05057

Tot Ion:117 Resp: 319225

Ion Ratio Lower Upper

117 100

119 95.8 77.8 116.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

150000

100000

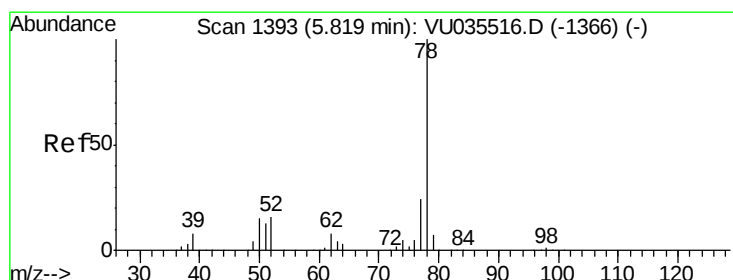
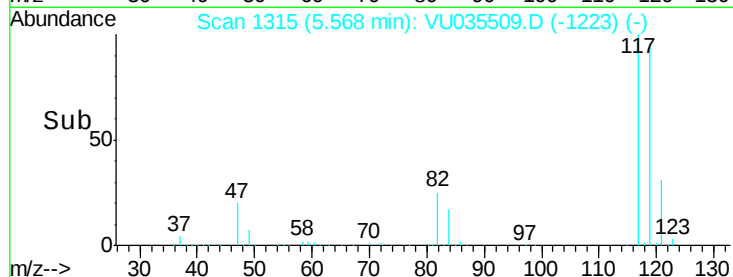
50000

0

5.57

5.50 5.60

Time-->



#33

Benzene

Concen: 56.731 ug/L

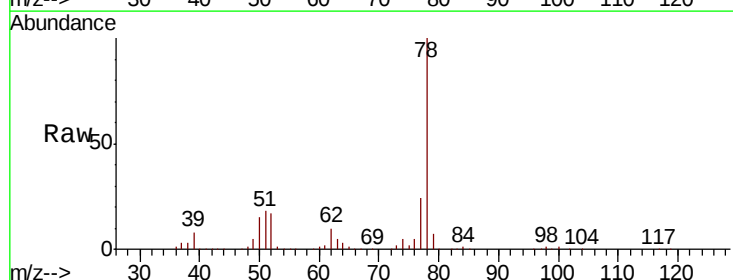
RT: 5.82 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Tgt Ion: 78 Resp: 982349



Abundance Ion 78.00 (77.70 to 78.70): VU0

500000

400000

300000

200000

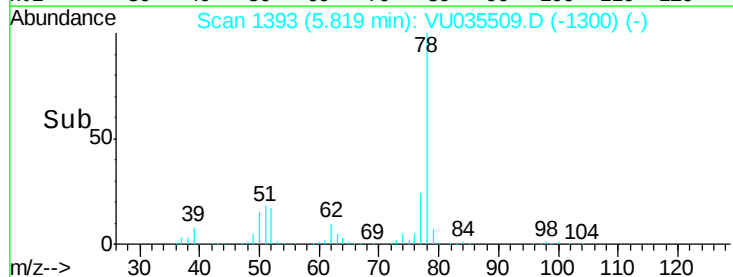
100000

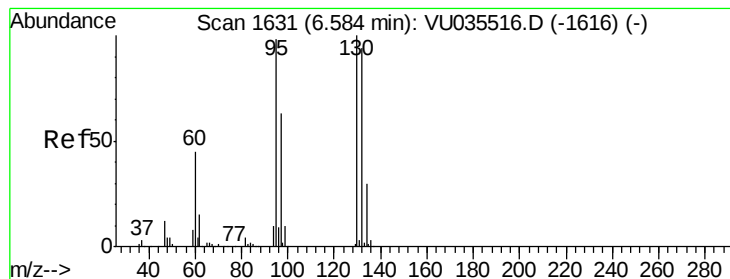
0

5.82

5.70 5.80 5.90

Time-->





#34

Trichloroethene

Concen: 54.926 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

Tot Ion: 95 Resp: 233532

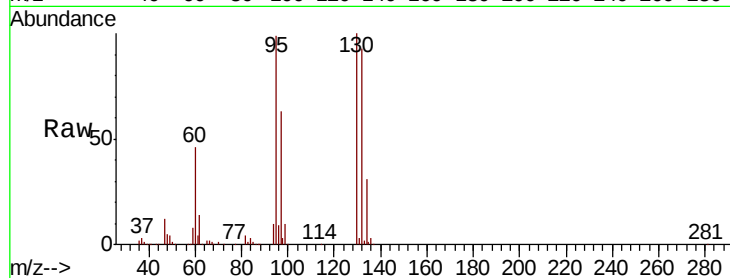
Ion Ratio Lower Upper

95 100

97 63.6 45.1 83.7

132 94.3 67.2 124.8

130 101.3 70.6 131.0



Abundance Ion 95.00 (94.70 to 95.70): VU035509.D (-1538) (-)

200000

Ion 97.00 (96.70 to 97.70): VU035509.D (-1538) (-)

150000

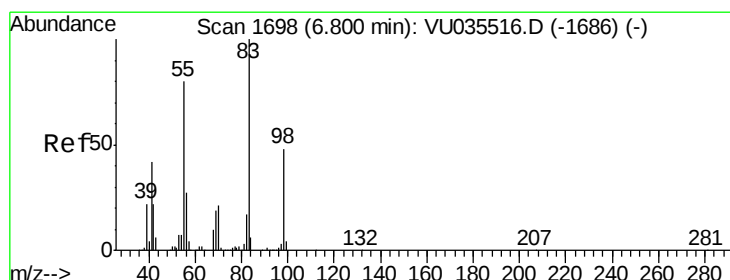
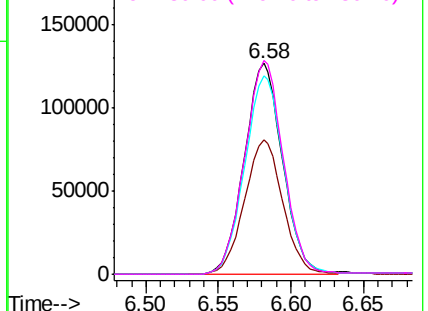
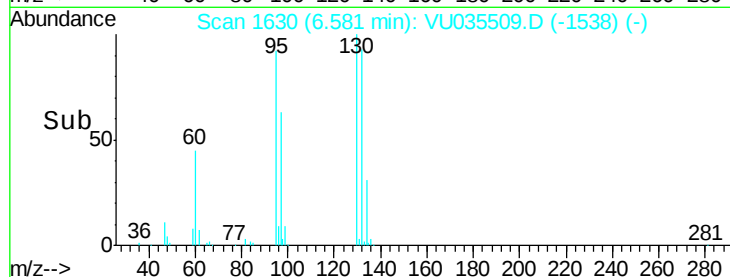
Ion 132.00 (131.70 to 132.70): VU035509.D (-1538) (-)

100000

Ion 130.00 (129.70 to 130.70): VU035509.D (-1538) (-)

50000

0



#35

Methylcyclohexane

Concen: 59.558 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

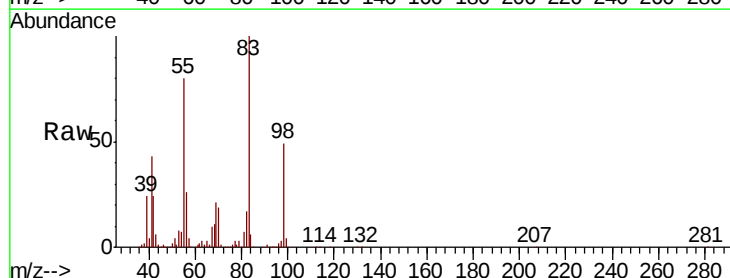
Tgt Ion: 83 Resp: 352265

Ion Ratio Lower Upper

83 100

55 79.4 65.1 97.7

98 48.5 38.9 58.3



Abundance Ion 83.00 (82.70 to 83.70): VU035509.D (-1605) (-)

250000

Ion 55.00 (54.70 to 55.70): VU035509.D (-1605) (-)

200000

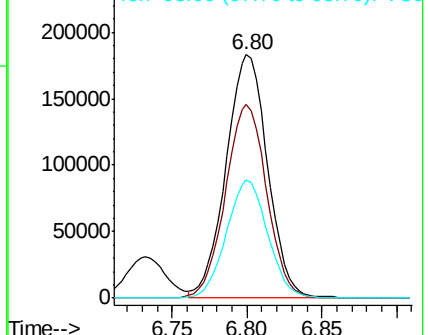
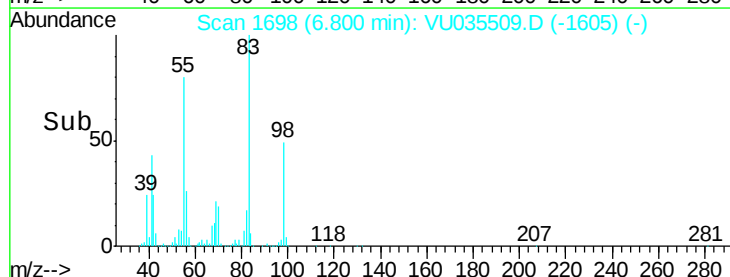
Ion 98.00 (97.70 to 98.70): VU035509.D (-1605) (-)

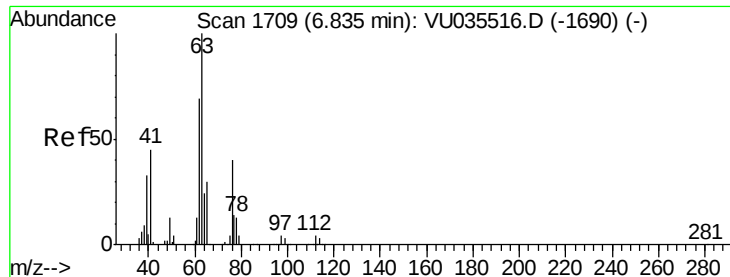
150000

100000

50000

0





#37

1,2-Dichloropropane

Concen: 56.045 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

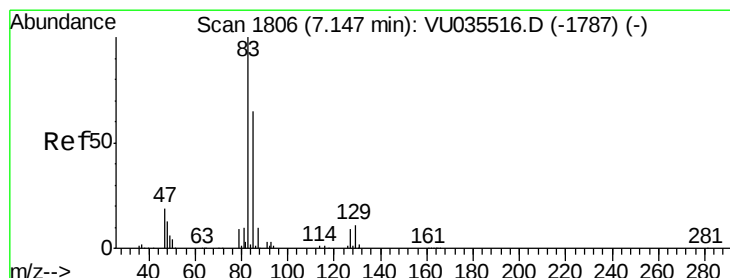
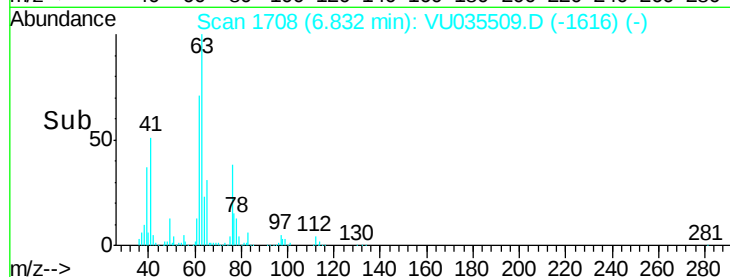
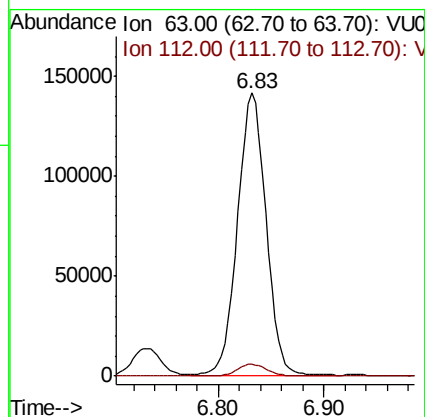
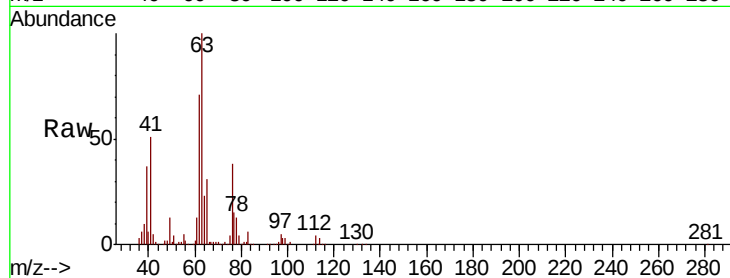
VSTD05057

Tot Ion: 63 Resp: 265273

Ion Ratio Lower Upper

63 100

112 4.4 3.4 5.0



#38

Bromodichloromethane

Concen: 55.998 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

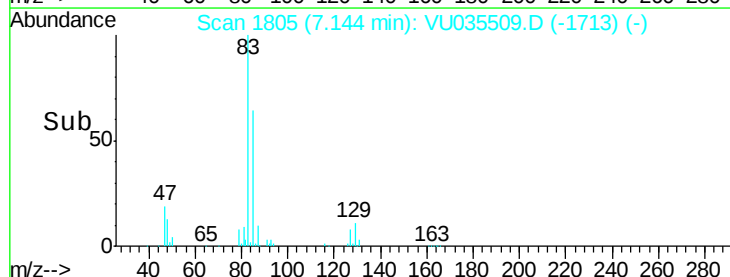
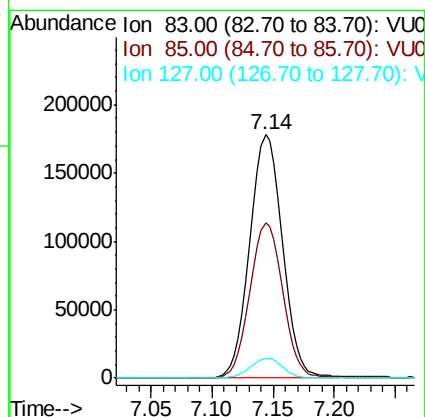
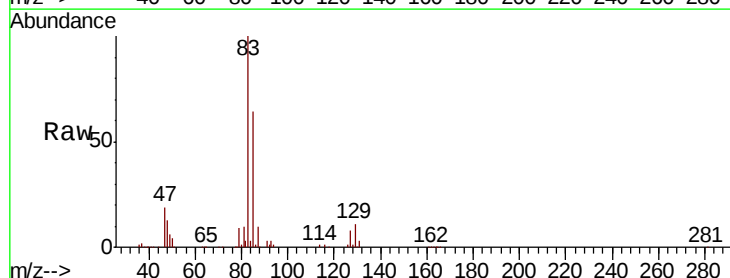
Tgt Ion: 83 Resp: 329702

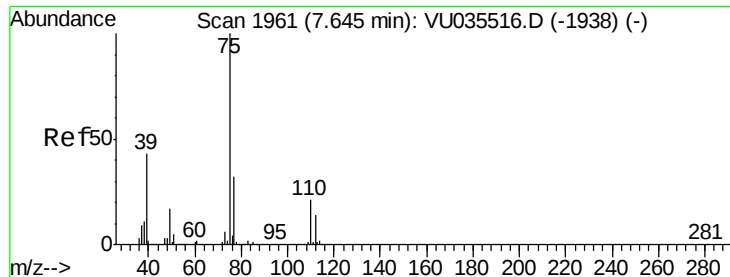
Ion Ratio Lower Upper

83 100

85 63.7 45.6 84.6

127 8.2 6.6 10.0





#39

cis-1,3-Dichloropropene

Concen: 54.392 ug/L

RT: 7.64 min Scan# 1960

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

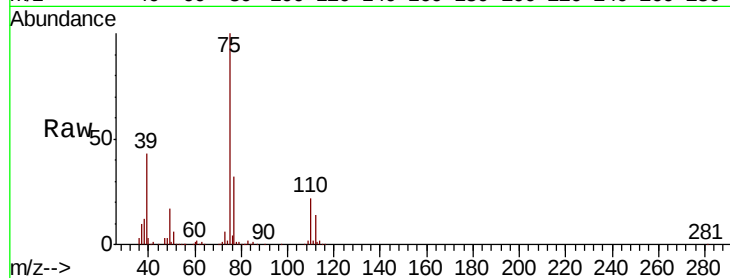
VSTD05057

Tot Ion: 75 Resp: 380941

Ion Ratio Lower Upper

75 100

77 31.8 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU035516.D (-1938) (-)

Ion 77.00 (76.70 to 77.70): VU035516.D (-1938) (-)

7.64

250000

200000

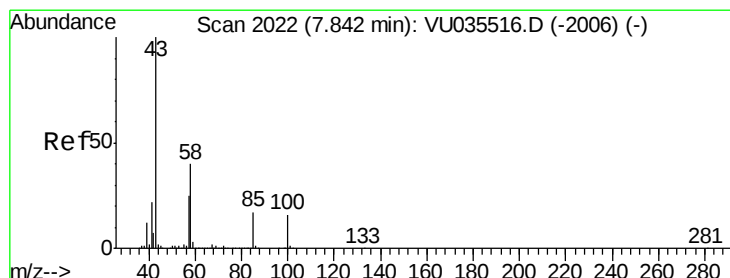
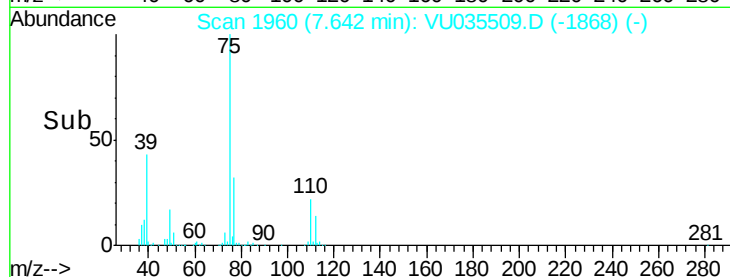
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#40

4-Methyl-2-pentanone

Concen: 107.898 ug/L

RT: 7.84 min Scan# 2021

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

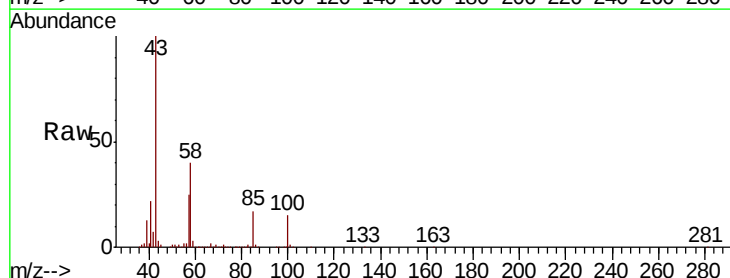
Tgt Ion: 43 Resp: 696481

Ion Ratio Lower Upper

43 100

58 39.9 31.9 47.9

100 15.2 12.3 18.5



Abundance Ion 43.00 (42.70 to 43.70): VU035516.D (-2006) (-)

Ion 58.00 (57.70 to 58.70): VU035516.D (-2006) (-)

Ion 100.00 (99.70 to 100.70): VU035516.D (-2006) (-)

7.84

500000

400000

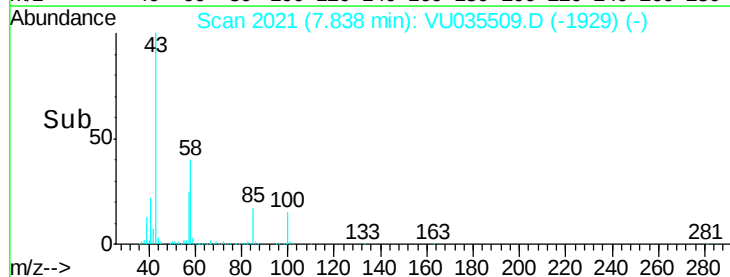
300000

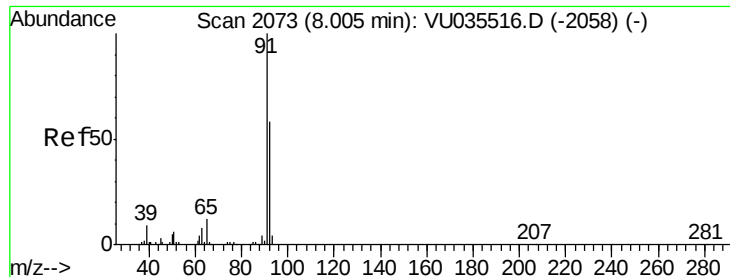
200000

100000

0

Time--> 7.75 7.80 7.85 7.90 7.95





#42

Toluene

Concen: 57.591 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

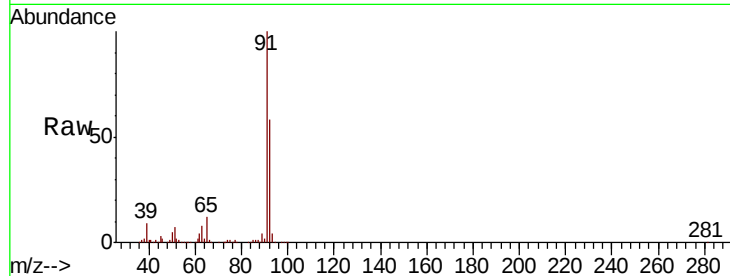
VSTD05057

Tot Ion: 91 Resp: 1028503

Ion Ratio Lower Upper

91 100

92 58.2 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VU035516.D (-2058) (-)

Ion 92.00 (91.70 to 92.70): VU035516.D (-2058) (-)

8.00

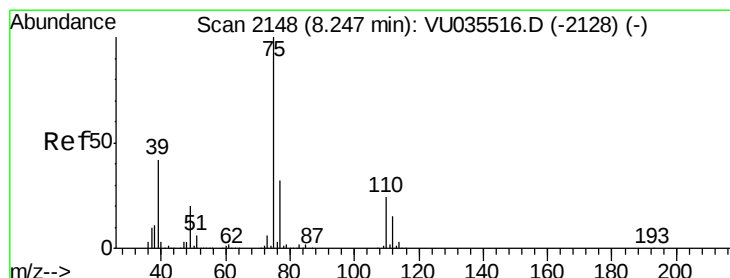
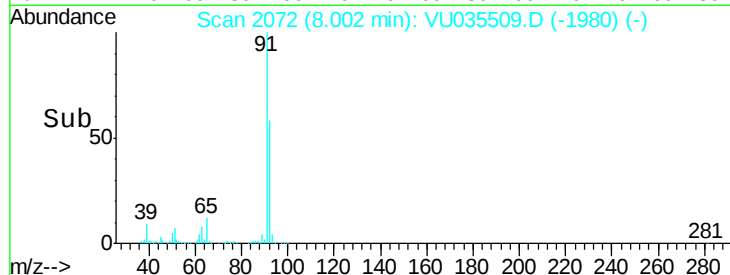
600000

400000

200000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 56.933 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU035509.D

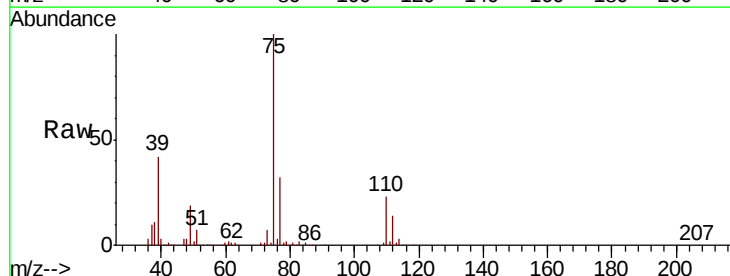
Acq: 26 Oct 2019 11:15

Tgt Ion: 75 Resp: 363802

Ion Ratio Lower Upper

75 100

77 31.5 21.9 40.7



Abundance Ion 75.00 (74.70 to 75.70): VU035516.D (-2128) (-)

Ion 77.00 (76.70 to 77.70): VU035516.D (-2128) (-)

8.24

200000

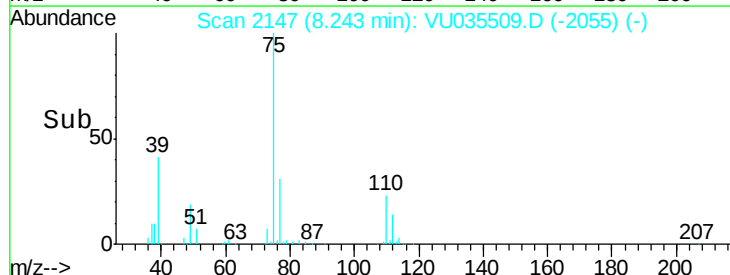
150000

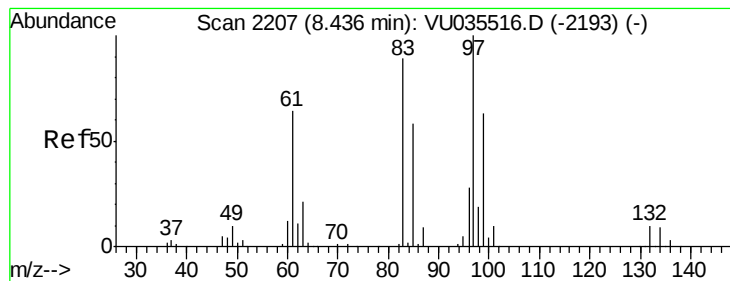
100000

50000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 55.331 ug/L

RT: 8.43 min Scan# 2206

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

Tot Ion: 97 Resp: 239512

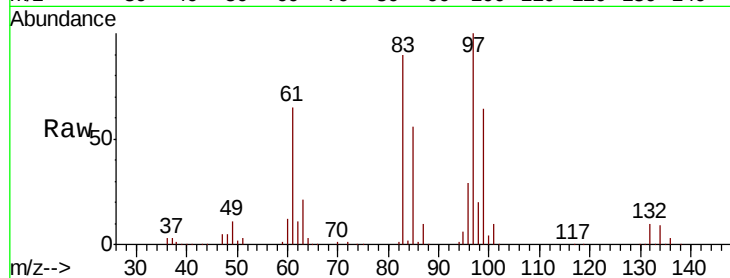
Ion Ratio Lower Upper

97 100

99 63.7 42.7 79.3

83 90.0 61.7 114.5

85 56.1 40.3 74.8



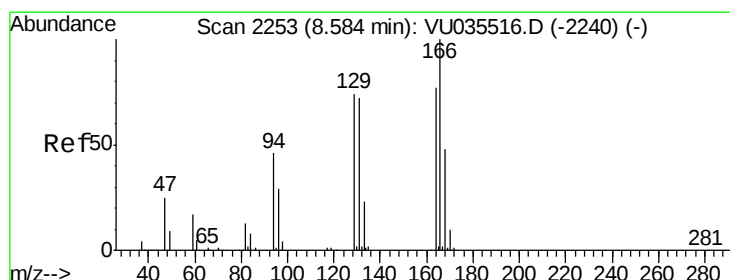
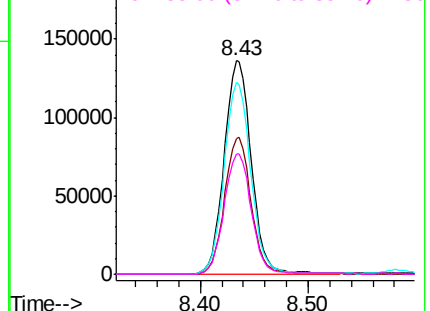
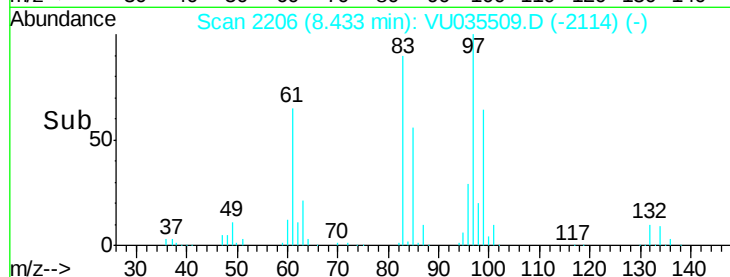
Abundance

Ion 97.00 (96.70 to 97.70): VU035516.D (-2193) (-)

Ion 99.00 (98.70 to 99.70): VU035516.D (-2193) (-)

Ion 83.00 (82.70 to 83.70): VU035516.D (-2193) (-)

Ion 85.00 (84.70 to 85.70): VU035516.D (-2193) (-)



#46

Tetrachloroethene

Concen: 56.674 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Tgt Ion: 164 Resp: 188403

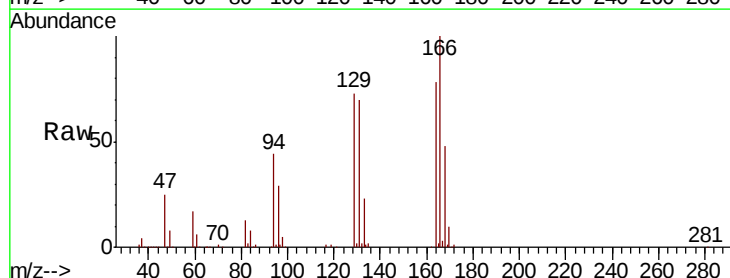
Ion Ratio Lower Upper

164 100

129 92.7 65.9 122.3

131 89.9 63.6 118.0

166 127.5 89.8 166.8



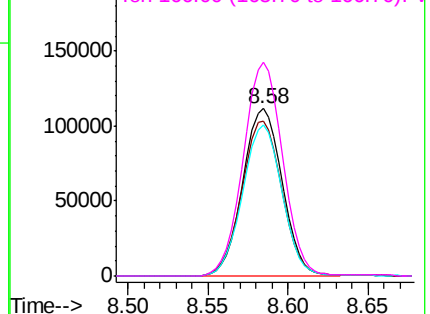
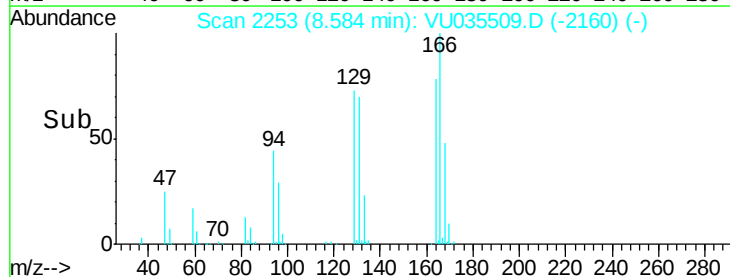
Abundance

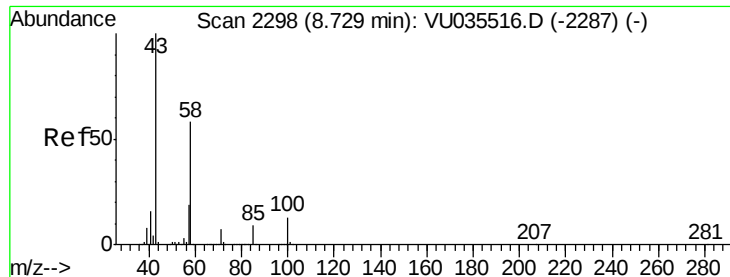
Ion 164.00 (163.70 to 164.70): VU035516.D (-2240) (-)

Ion 129.00 (128.70 to 129.70): VU035516.D (-2240) (-)

Ion 131.00 (130.70 to 131.70): VU035516.D (-2240) (-)

Ion 166.00 (165.70 to 166.70): VU035516.D (-2240) (-)

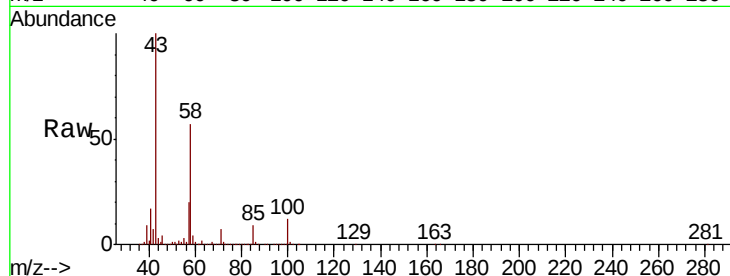




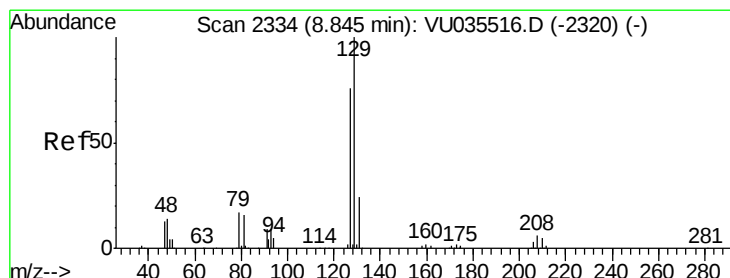
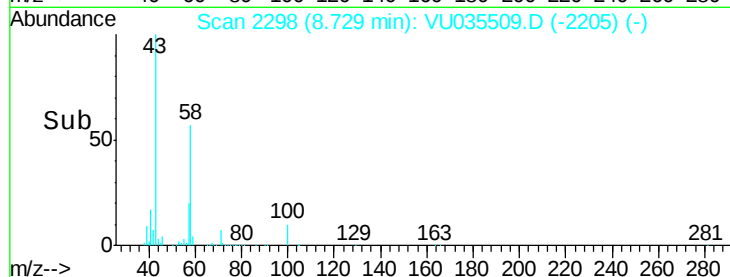
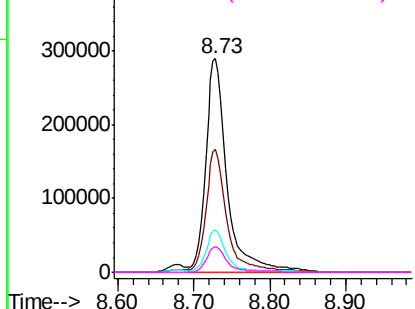
#48
2-Hexanone
Concen: 107.398 ug/L
RT: 8.73 min Scan# 2298
Delta R.T. -0.00 min
Lab File: VU035509.D
Acq: 26 Oct 2019 11:15

Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

Tot Ion:	43	Resp:	567690
Ion	Ratio	Lower	Upper
43	100		
58	53.3	45.6	68.4
57	17.9	14.1	21.1
100	11.3	9.2	13.8

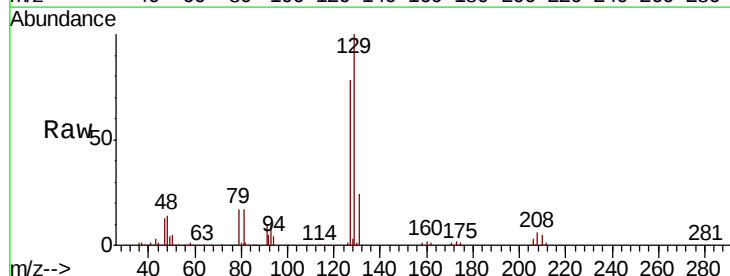


Abundance Ion 43.00 (42.70 to 43.70): VU035509.D (-2205) (-)
Ion 58.00 (57.70 to 58.70): VU035509.D (-2205) (-)
Ion 57.00 (56.70 to 57.70): VU035509.D (-2205) (-)
Ion 100.00 (99.70 to 100.70): VU035509.D (-2205) (-)

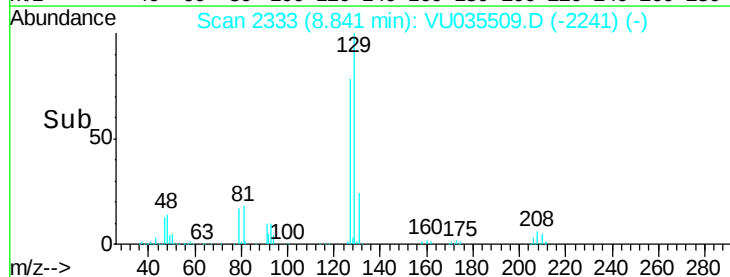
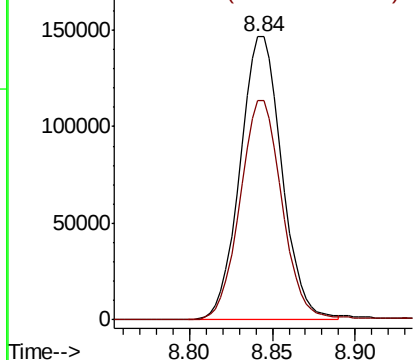


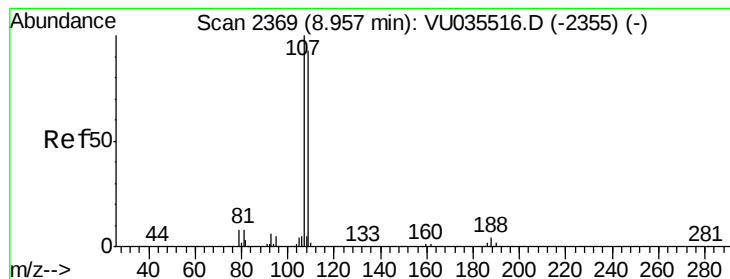
#49
Dibromochloromethane
Concen: 54.954 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU035509.D
Acq: 26 Oct 2019 11:15

Tgt Ion:	129	Resp:	256917
Ion	Ratio	Lower	Upper
129	100		
127	77.6	53.7	99.7



Abundance Ion 129.00 (128.70 to 129.70): VU035509.D (-2241) (-)
Ion 127.00 (126.70 to 127.70): VU035509.D (-2241) (-)





#50

1,2-Dibromoethane

Concen: 56.023 ug/L

RT: 8.96 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

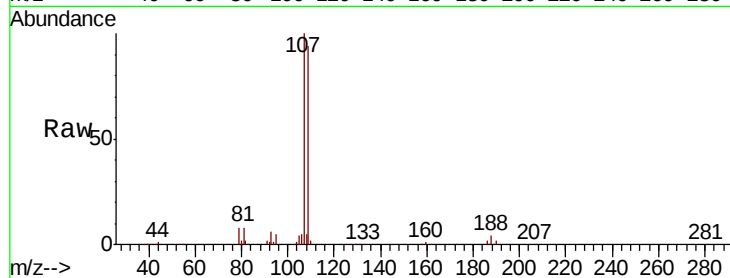
Tot Ion:107 Resp: 255135

Ion Ratio Lower Upper

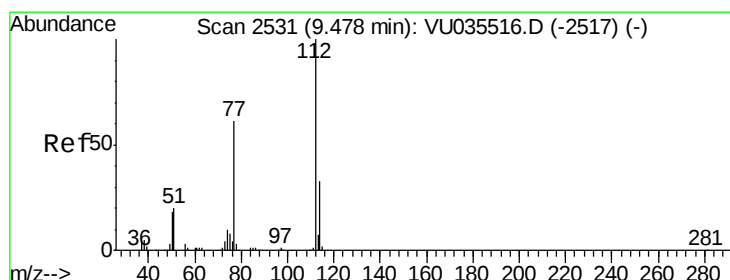
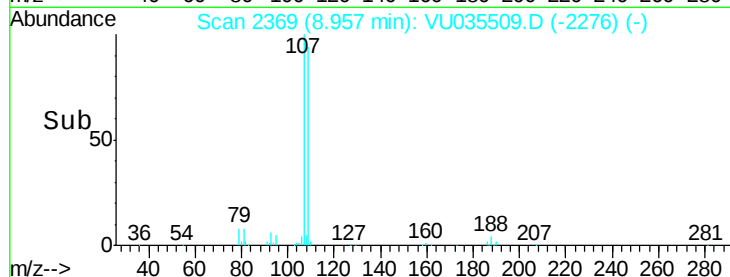
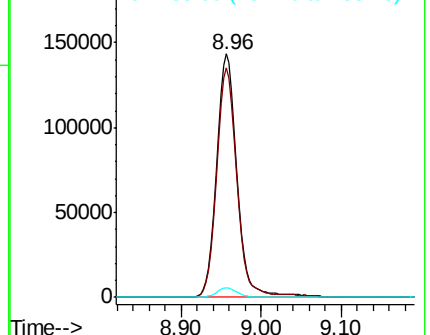
107 100

109 94.1 65.7 122.1

188 3.9 3.1 4.7



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: 55.647 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

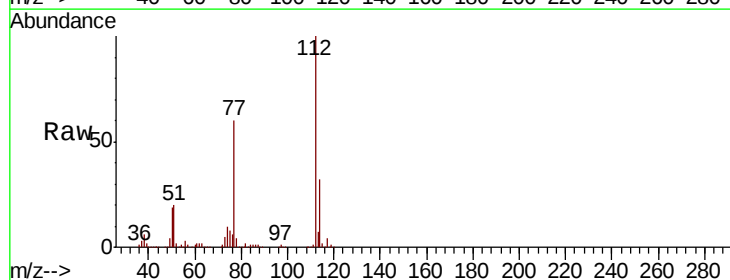
Tgt Ion:112 Resp: 645582

Ion Ratio Lower Upper

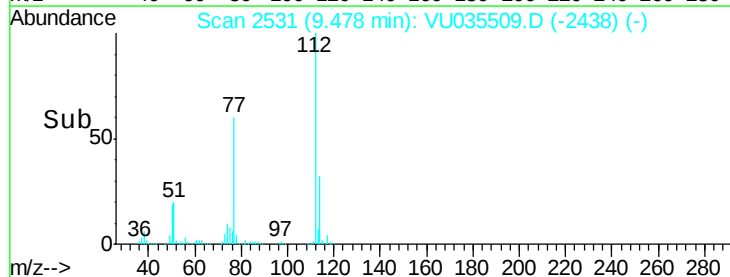
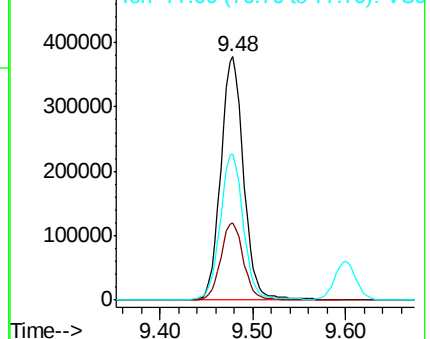
112 100

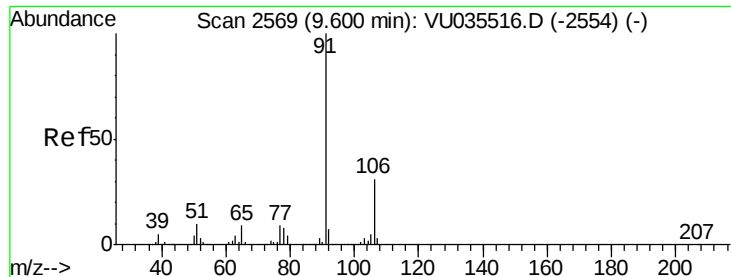
114 31.9 22.1 41.1

77 60.1 46.7 70.1



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): V





#52

Ethylbenzene

Concen: 57.950 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

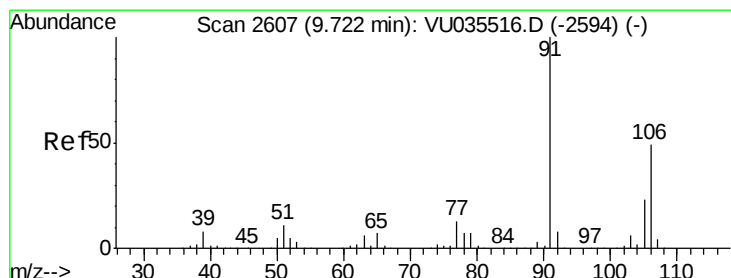
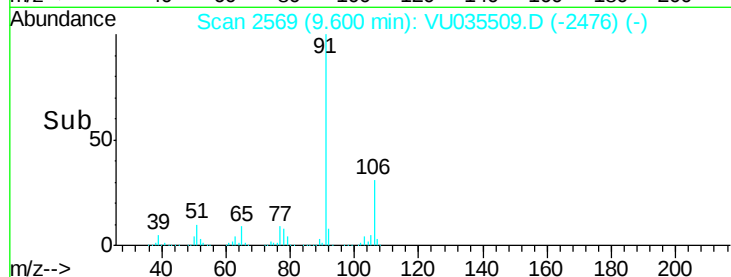
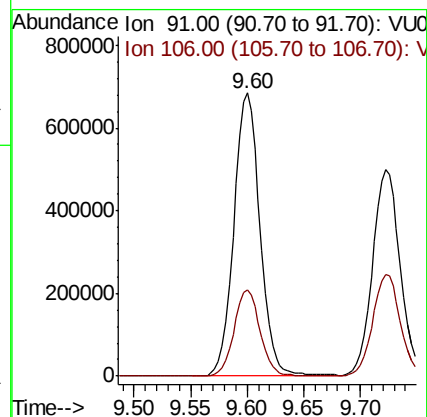
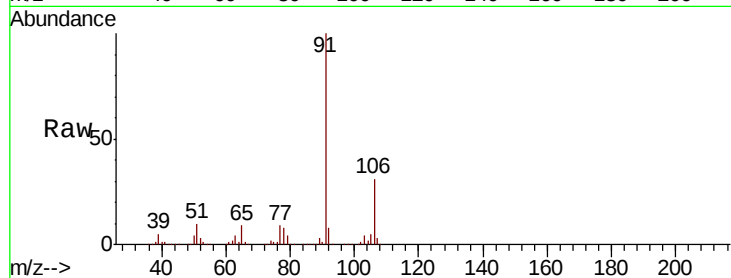
VSTD05057

Tot Ion: 91 Resp: 1102583

Ion Ratio Lower Upper

91 100

106 30.7 21.6 40.0



#53

m,p-Xylene

Concen: 59.691 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035509.D

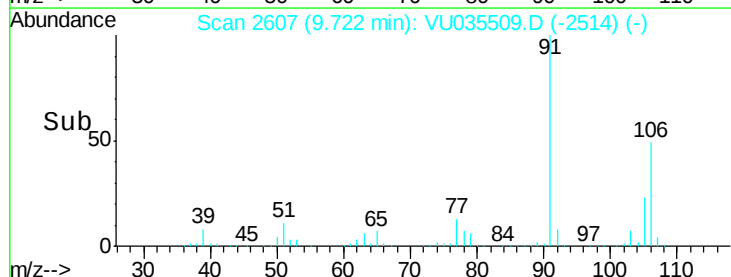
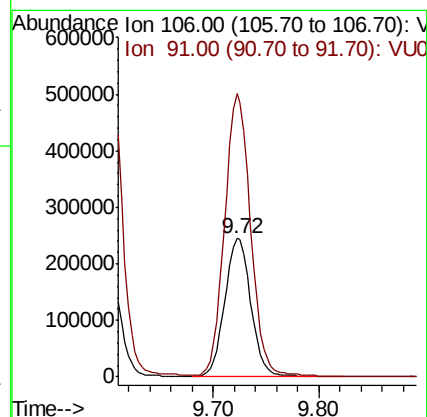
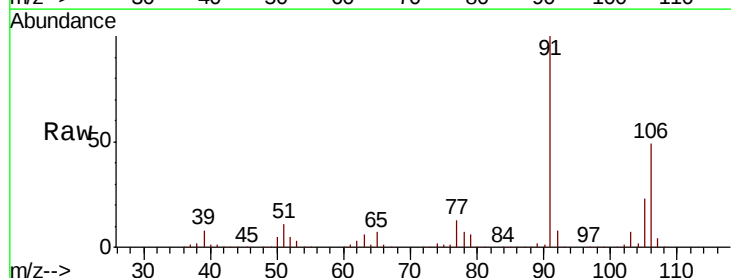
Acq: 26 Oct 2019 11:15

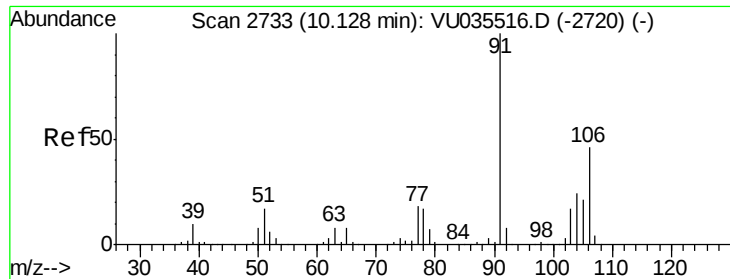
Tgt Ion: 106 Resp: 420970

Ion Ratio Lower Upper

106 100

91 204.2 141.7 263.3

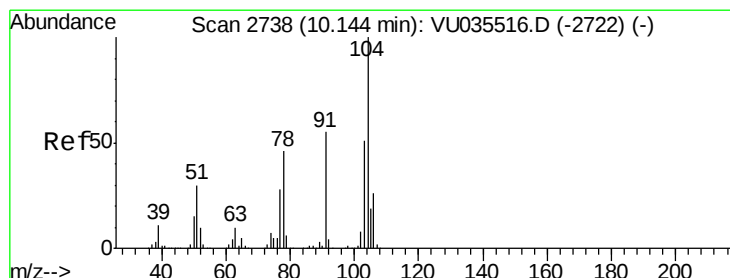
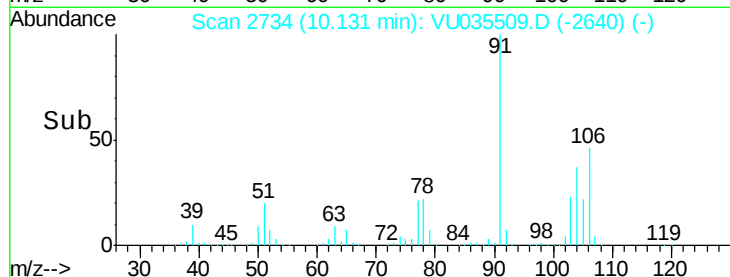
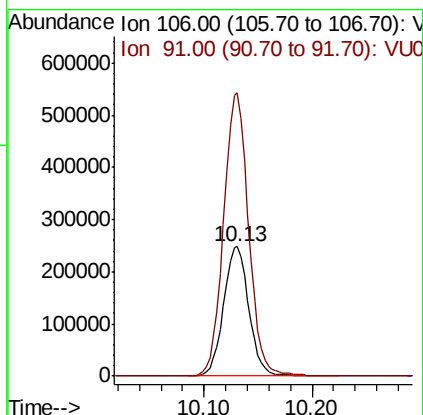
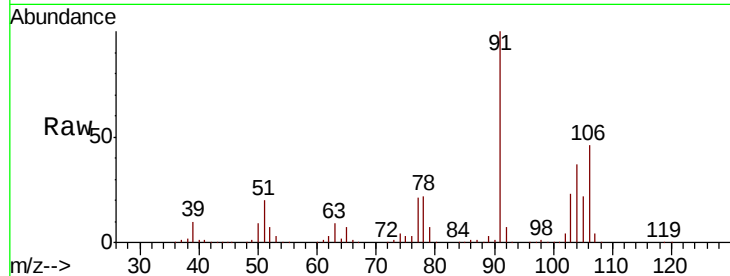




#54
o-xylene
Concen: 58.502 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU035509.D
Acq: 26 Oct 2019 11:15

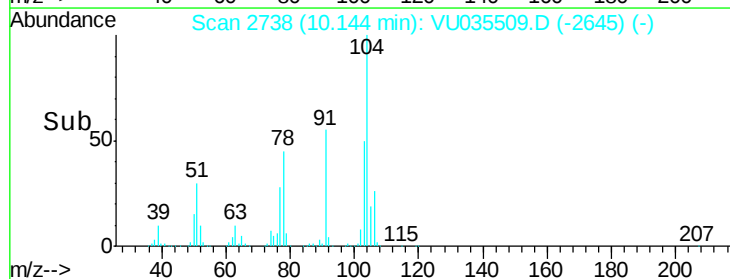
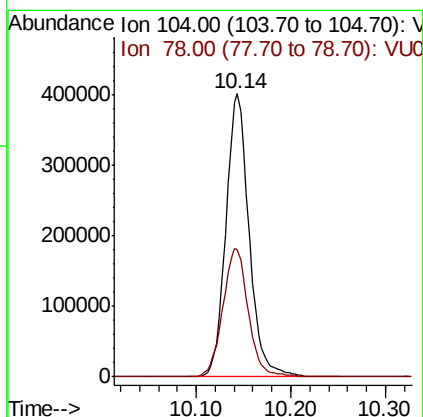
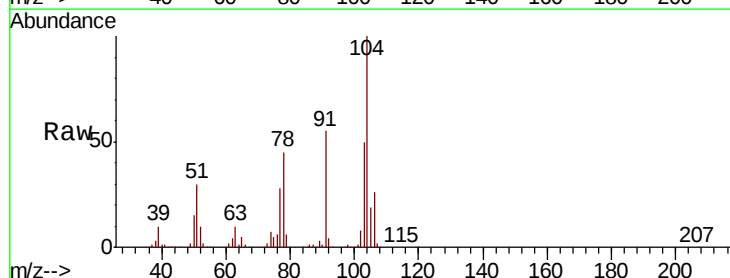
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

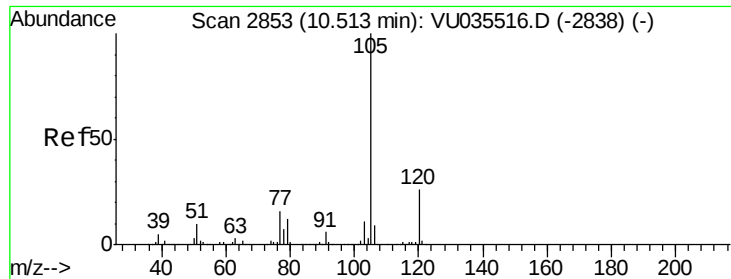
Tot Ion:106 Resp: 403722
Ion Ratio Lower Upper
106 100
91 218.4 150.3 279.1



#55
Styrene
Concen: 60.801 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. -0.00 min
Lab File: VU035509.D
Acq: 26 Oct 2019 11:15

Tgt Ion:104 Resp: 684751
Ion Ratio Lower Upper
104 100
78 45.1 32.3 59.9





#56

Isopropylbenzene

Concen: 58.904 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

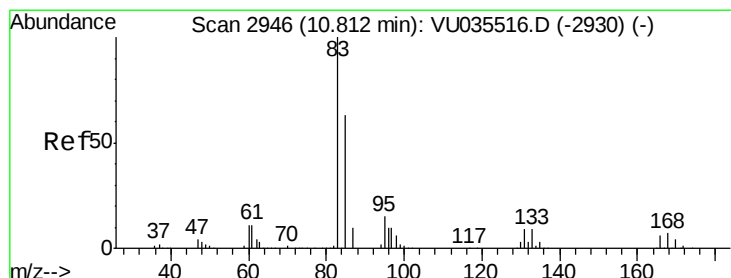
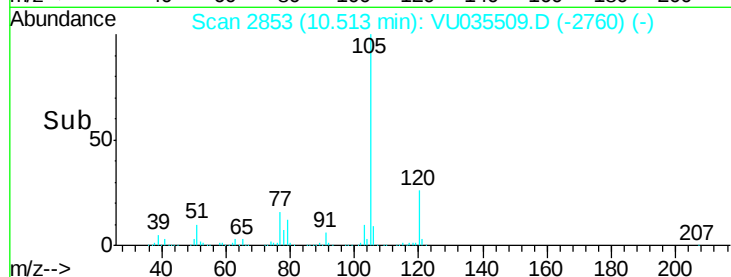
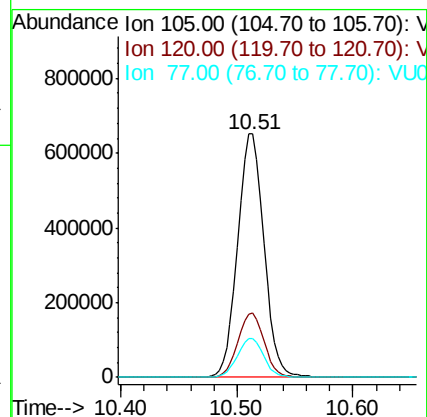
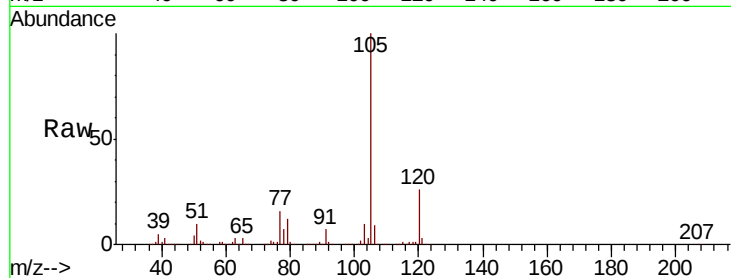
Tot Ion:105 Resp: 1022751

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.4

77 16.0 12.8 19.2



#58

1,1,2,2-Tetrachloroethane

Concen: 54.221 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

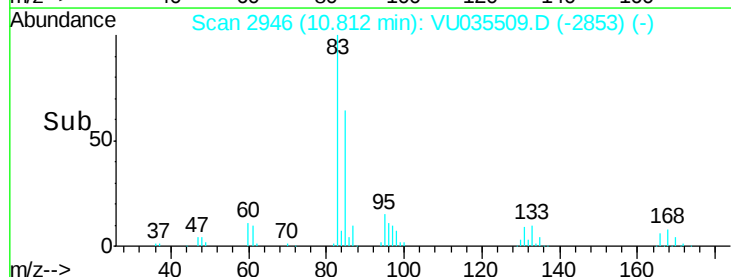
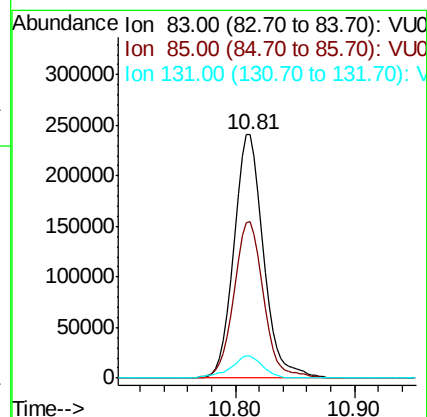
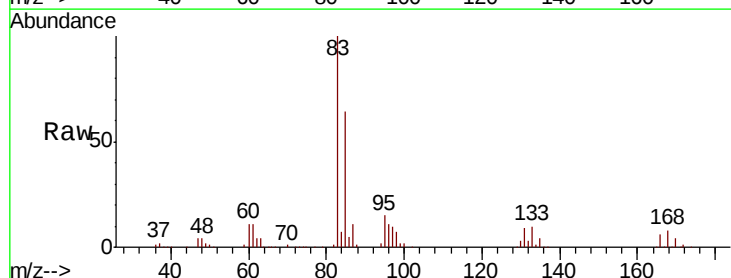
Tgt Ion: 83 Resp: 414730

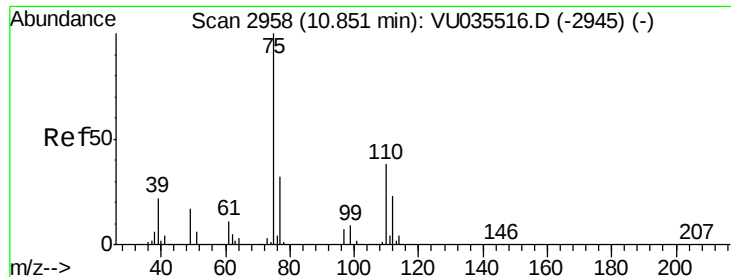
Ion Ratio Lower Upper

83 100

85 64.1 45.4 84.4

131 9.0 7.5 11.3





#59

1,2,3-Trichloropropane

Concen: 53.229 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

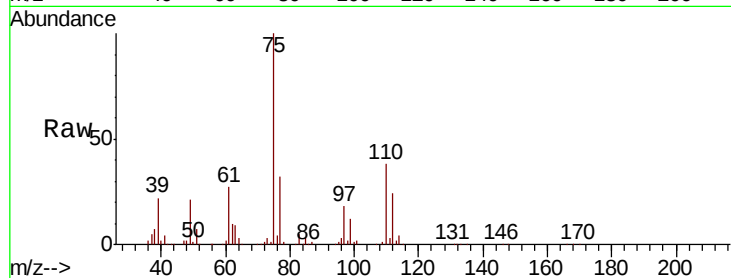
VSTD05057

Tot Ion: 75 Resp: 323815

Ion Ratio Lower Upper

75 100

77 32.3 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU035516.D (-2945) (-)

Ion 77.00 (76.70 to 77.70): VU035516.D (-2945) (-)

10.85

200000

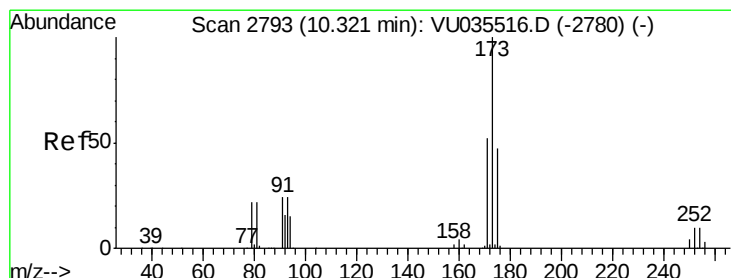
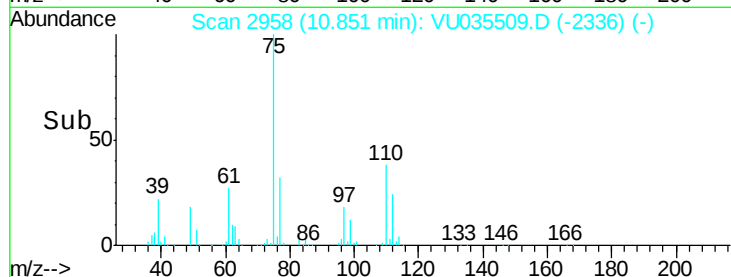
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 49.422 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

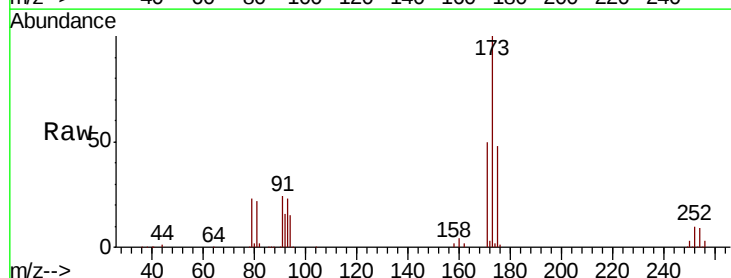
Tgt Ion: 173 Resp: 192943

Ion Ratio Lower Upper

173 100

175 48.4 39.3 58.9

254 9.2 7.6 11.4



Abundance Ion 173.00 (172.70 to 173.70): VU035516.D (-2780) (-)

Ion 175.00 (174.70 to 175.70): VU035516.D (-2780) (-)

Ion 254.00 (253.70 to 254.70): VU035516.D (-2780) (-)

10.32

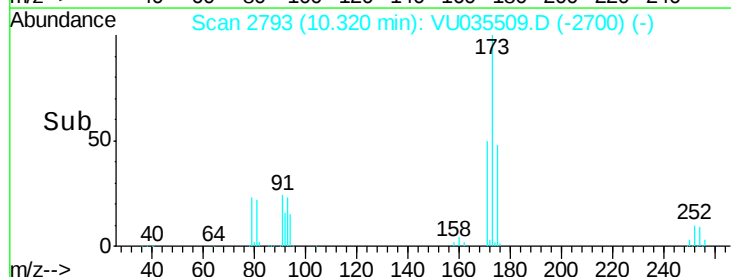
150000

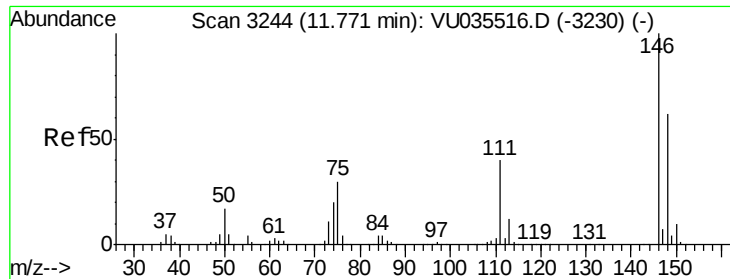
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 53.517 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

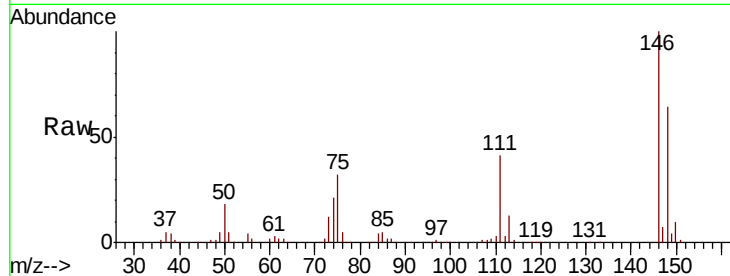
Tot Ion:146 Resp: 441724

Ion Ratio Lower Upper

146 100

111 41.2 28.1 52.1

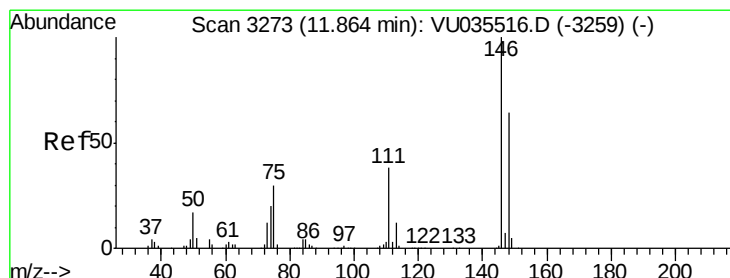
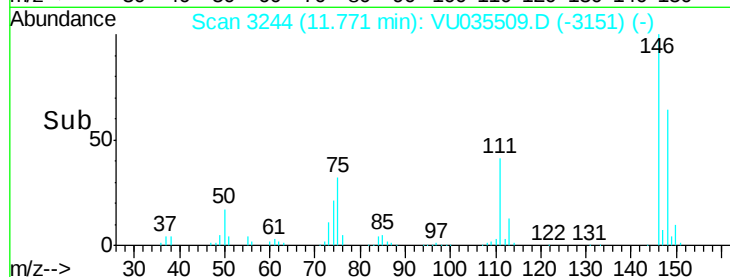
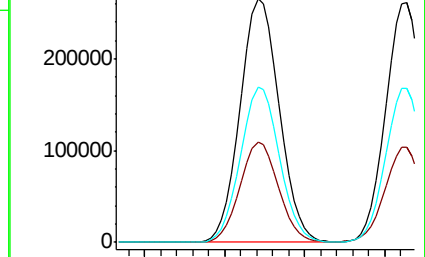
148 63.6 45.0 83.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 52.177 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

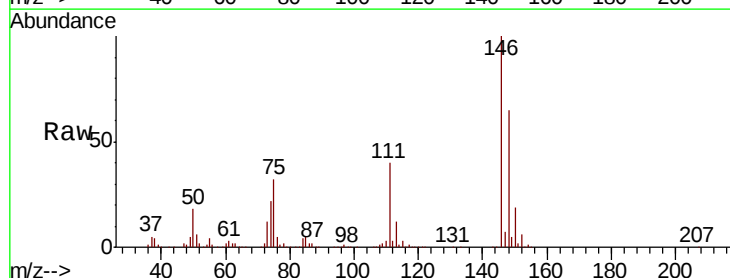
Tgt Ion:146 Resp: 438181

Ion Ratio Lower Upper

146 100

111 39.7 26.7 49.5

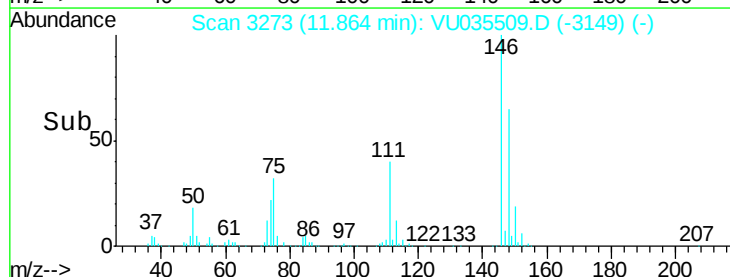
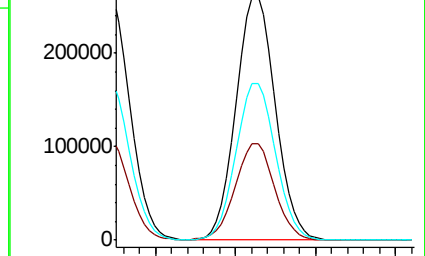
148 64.5 44.4 82.4

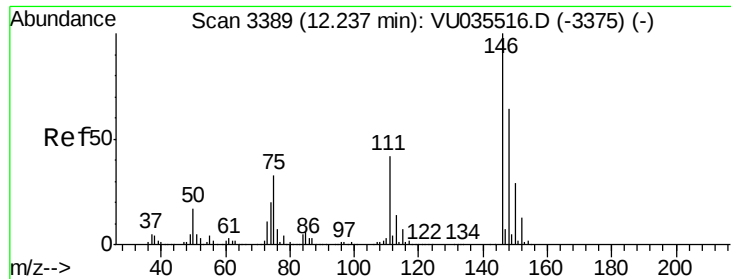


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

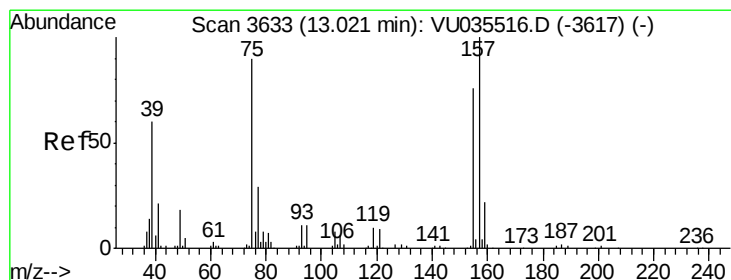
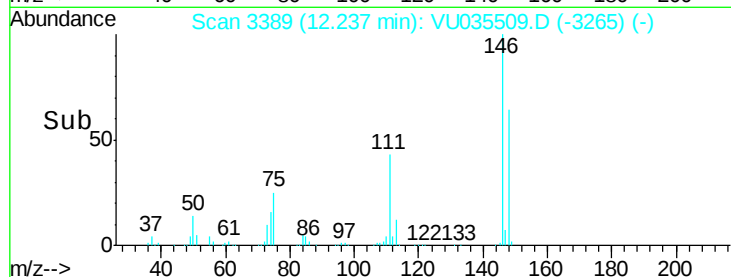
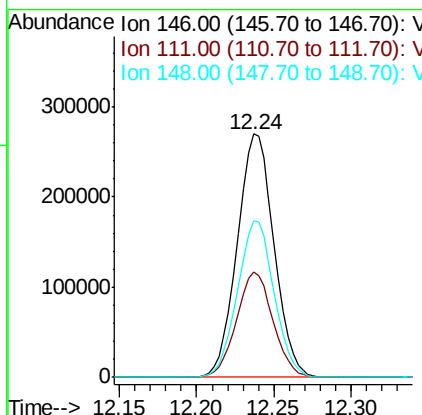
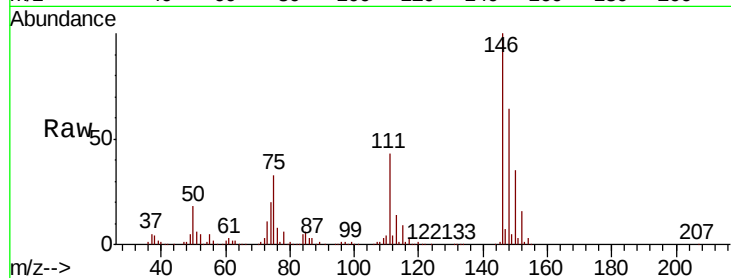




#65
 1,2-Dichlorobenzene
 Concen: 53.009 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VU035509.D
 Acq: 26 Oct 2019 11:15

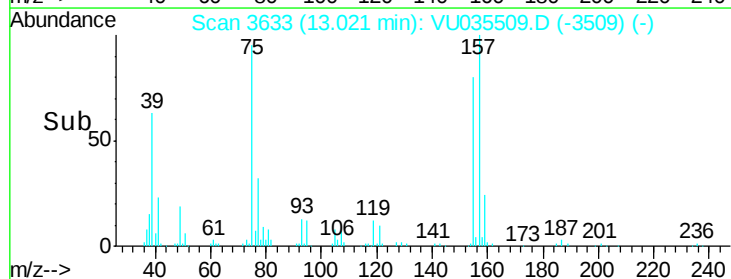
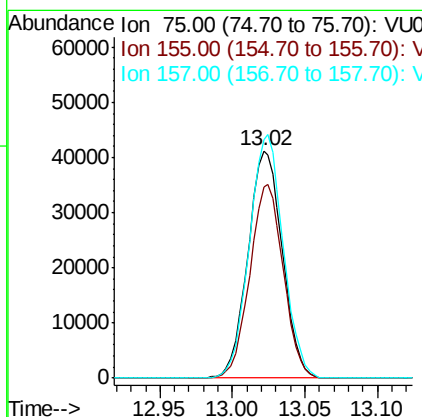
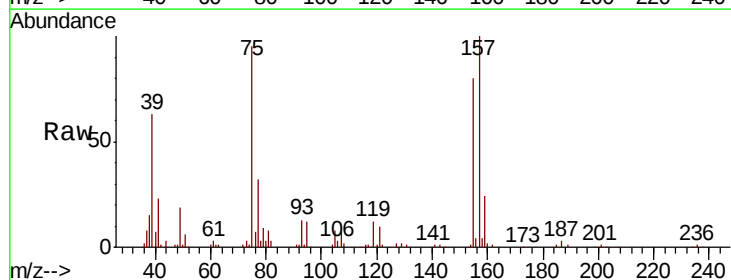
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

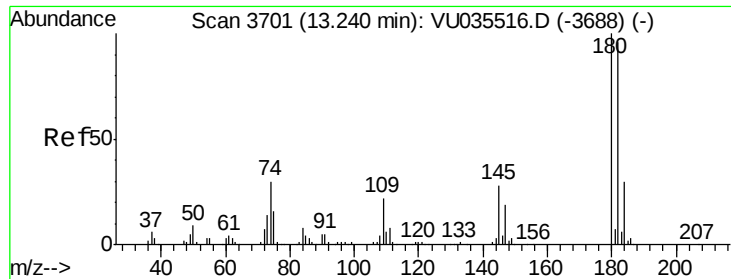
Tot Ion:146 Resp: 445464
 Ion Ratio Lower Upper
 146 100
 111 43.2 33.6 50.4
 148 64.2 50.3 75.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 48.695 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. -0.00 min
 Lab File: VU035509.D
 Acq: 26 Oct 2019 11:15

Tgt Ion: 75 Resp: 67978
 Ion Ratio Lower Upper
 75 100
 155 83.8 64.2 96.4
 157 105.0 85.1 127.7

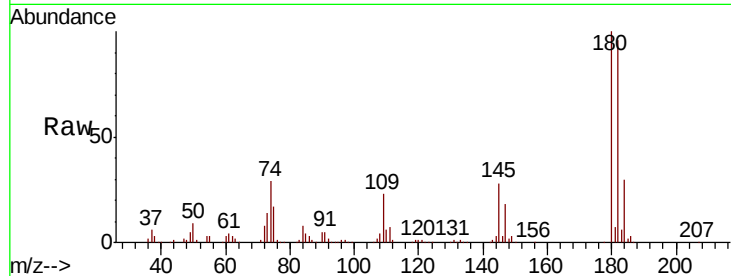




#67
 1,3,5-Trichlorobenzene
 Concen: 54.721 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU035509.D
 Acq: 26 Oct 2019 11:15

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.6	114.8
184	30.3	23.9	35.9
145	27.3	22.4	33.6



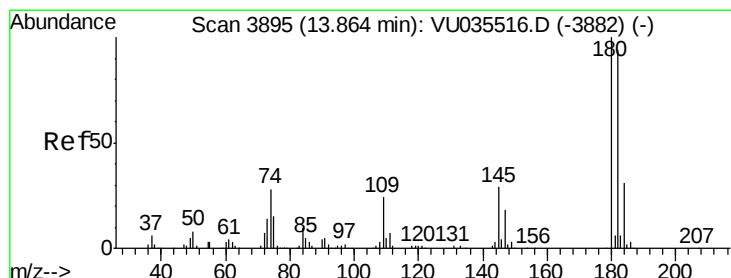
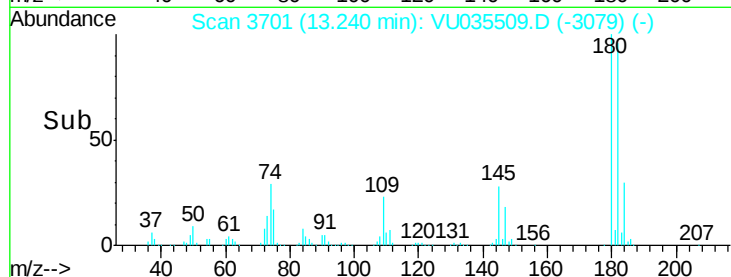
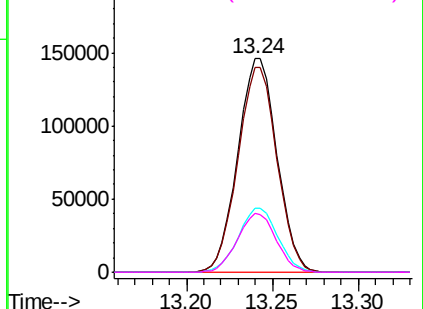
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

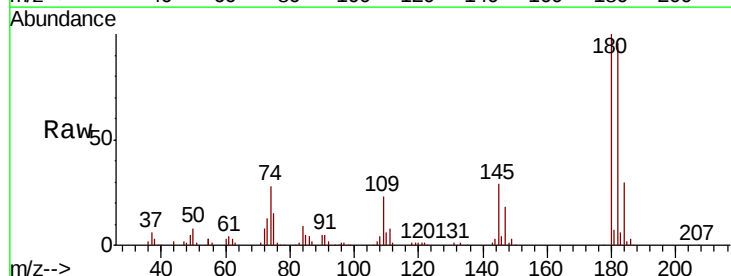
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 49.112 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.00 min
 Lab File: VU035509.D
 Acq: 26 Oct 2019 11:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	75.0	112.4
145	28.5	22.6	34.0

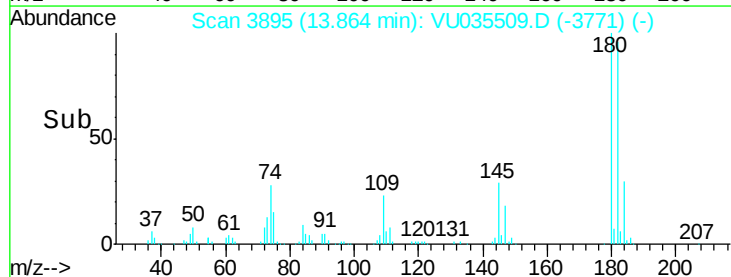
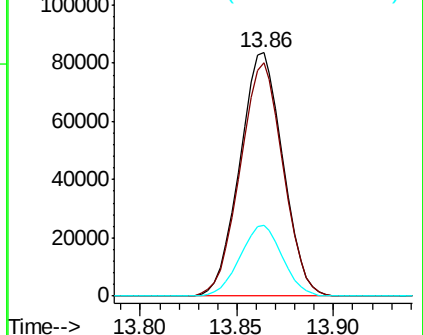


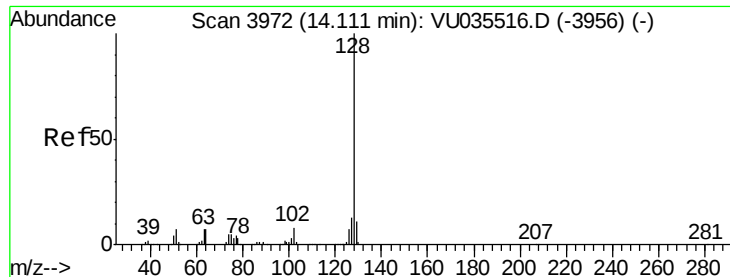
Abundance

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





#69

Naphthalene

Concen: 40.846 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

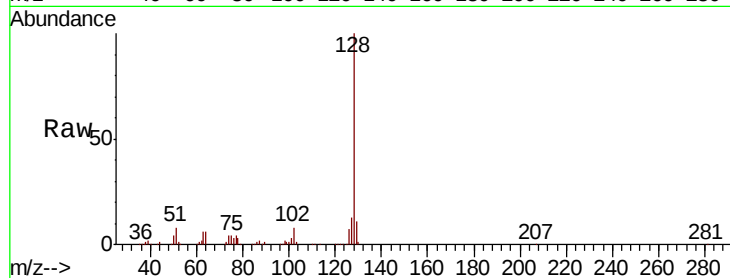
Tot Ion:128 Resp: 300893

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

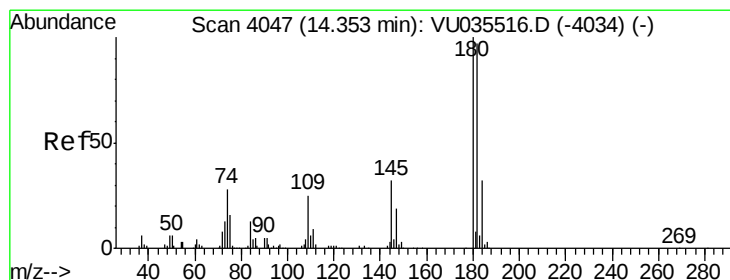
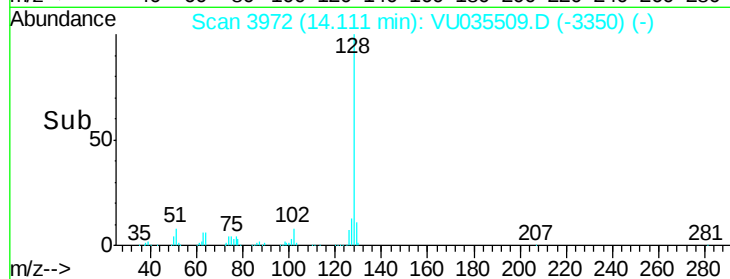
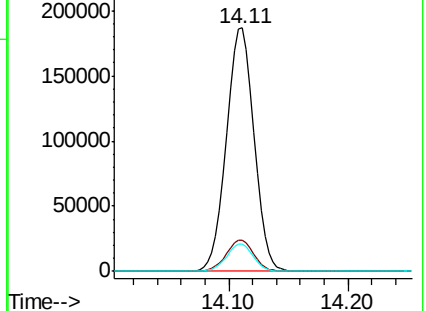
129 10.8 8.4 12.6



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: 50.322 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. -0.00 min

Lab File: VU035509.D

Acq: 26 Oct 2019 11:15

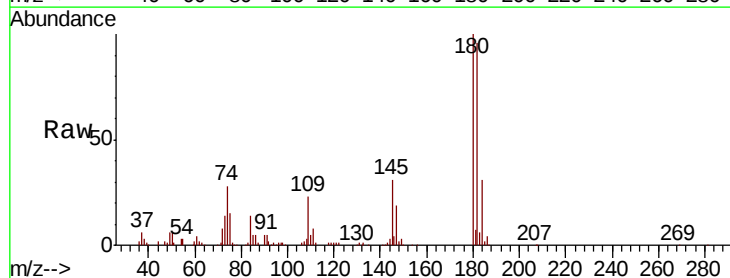
Tgt Ion:180 Resp: 137754

Ion Ratio Lower Upper

180 100

182 96.3 76.0 114.0

145 30.7 24.9 37.3



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

