

Data File : VU031734.D
Acq On : 03 May 2019 09:01
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

Quant Time: May 04 02:33:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Fri May 03 07:25:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	866741	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	826380	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	383097	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	337797	46.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.14%
7) Chloroethane-d5	1.68	69	264730	47.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.46%
11) 1,1-Dichloroethene-d2	2.27	63	657847	45.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.08%
21) 2-Butanone-d5	4.19	46	683710	104.03	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.03%
24) Chloroform-d	4.64	84	595584	44.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.66%
26) 1,2-Dichloroethane-d4	5.31	65	381565	43.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.92%
32) Benzene-d6	5.33	84	1171762	46.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.36%
36) 1,2-Dichloropropane-d6	6.32	67	404776	45.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.68%
41) Toluene-d8	7.56	98	1003720	45.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.82%
43) trans-1,3-Dichloropropene-	7.85	79	180592	47.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.24%
47) 2-Hexanone-d5	8.31	63	429493	111.15	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	111.15%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	571203	47.67	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.34%
64) 1,2-Dichlorobenzene-d4	11.85	152	365652	45.39	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.78%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	409933	43.010	ug/L	98
3) Chloromethane	1.32	50	495531	42.971	ug/L	99
5) Vinyl chloride	1.40	62	473672	43.935	ug/L	99
6) Bromomethane	1.63	94	242668	42.681	ug/L	99
8) Chloroethane	1.70	64	270336	45.872	ug/L	98
9) Trichlorofluoromethane	1.88	101	533287	43.391	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	321763	46.313	ug/L	100
12) 1,1-Dichloroethene	2.28	96	310541	45.922	ug/L	94
13) Acetone	2.34	43	823121	111.182	ug/L	97
14) Carbon disulfide	2.47	76	946519	42.180	ug/L	100
15) Methyl Acetate	2.62	43	540685	48.266	ug/L	99
16) Methylene chloride	2.70	84	372522	46.679	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	324922	46.112	ug/L	96
18) Methyl tert-butyl Ether	2.99	73	1177996	52.473	ug/L	99
19) 1,1-Dichloroethane	3.44	63	711348	47.936	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	376648	49.831	ug/L	99
22) 2-Butanone	4.27	43	956146	116.572	ug/L	100

Data File : VU031734.D
Acq On : 03 May 2019 09:01
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

Quant Time: May 04 02:33:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Fri May 03 07:25:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	172820	47.054	ug/L	98
25) Chloroform	4.67	83	655068	46.162	ug/L	98
27) 1,2-Dichloroethane	5.40	62	540292	46.874	ug/L	99
29) Cyclohexane	4.99	56	675962	51.684	ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	536080	46.300	ug/L	99
31) Carbon tetrachloride	5.13	117	451046	45.577	ug/L	99
33) Benzene	5.38	78	1473722	48.505	ug/L	100
34) Trichloroethene	6.18	95	367862	49.948	ug/L	98
35) Methylcyclohexane	6.41	83	585648	53.060	ug/L	98
37) 1,2-Dichloropropane	6.43	63	430133	49.868	ug/L	99
38) Bromodichloromethane	6.75	83	497149	47.537	ug/L	98
39) cis-1,3-Dichloropropene	7.26	75	621471	54.528	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	1440083	108.518	ug/L	100
42) Toluene	7.63	91	1549292	51.191	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	536756	51.924	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	356850	50.185	ug/L	97
46) Tetrachloroethene	8.22	164	249860	49.764	ug/L	97
48) 2-Hexanone	8.36	43	1202838	112.069	ug/L	99
49) Dibromochloromethane	8.47	129	359144	48.542	ug/L	99
50) 1,2-Dibromoethane	8.58	107	372498	49.601	ug/L	96
51) Chlorobenzene	9.12	112	911820	50.983	ug/L	99
52) Ethylbenzene	9.24	91	1674436	53.336	ug/L	100
53) m,p-Xylene	9.37	106	592535	54.171	ug/L	97
54) o-xylene	9.77	106	604335	55.729	ug/L	94
55) Styrene	9.79	104	1019745	55.041	ug/L	99
56) Isopropylbenzene	10.16	105	1572667	55.151	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	640685	50.776	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	520971	50.943	ug/L	98
61) Bromoform	9.95	173	261563	46.059	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	659755	52.026	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	657514	50.065	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	677072	50.237	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	143693	45.938	ug/L	92
67) 1,3,5-Trichlorobenzene	12.88	180	480725	50.613	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	410762	54.628	ug/L	99
69) Naphthalene	13.74	128	1486570	57.985	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	420267	49.093	ug/L	98

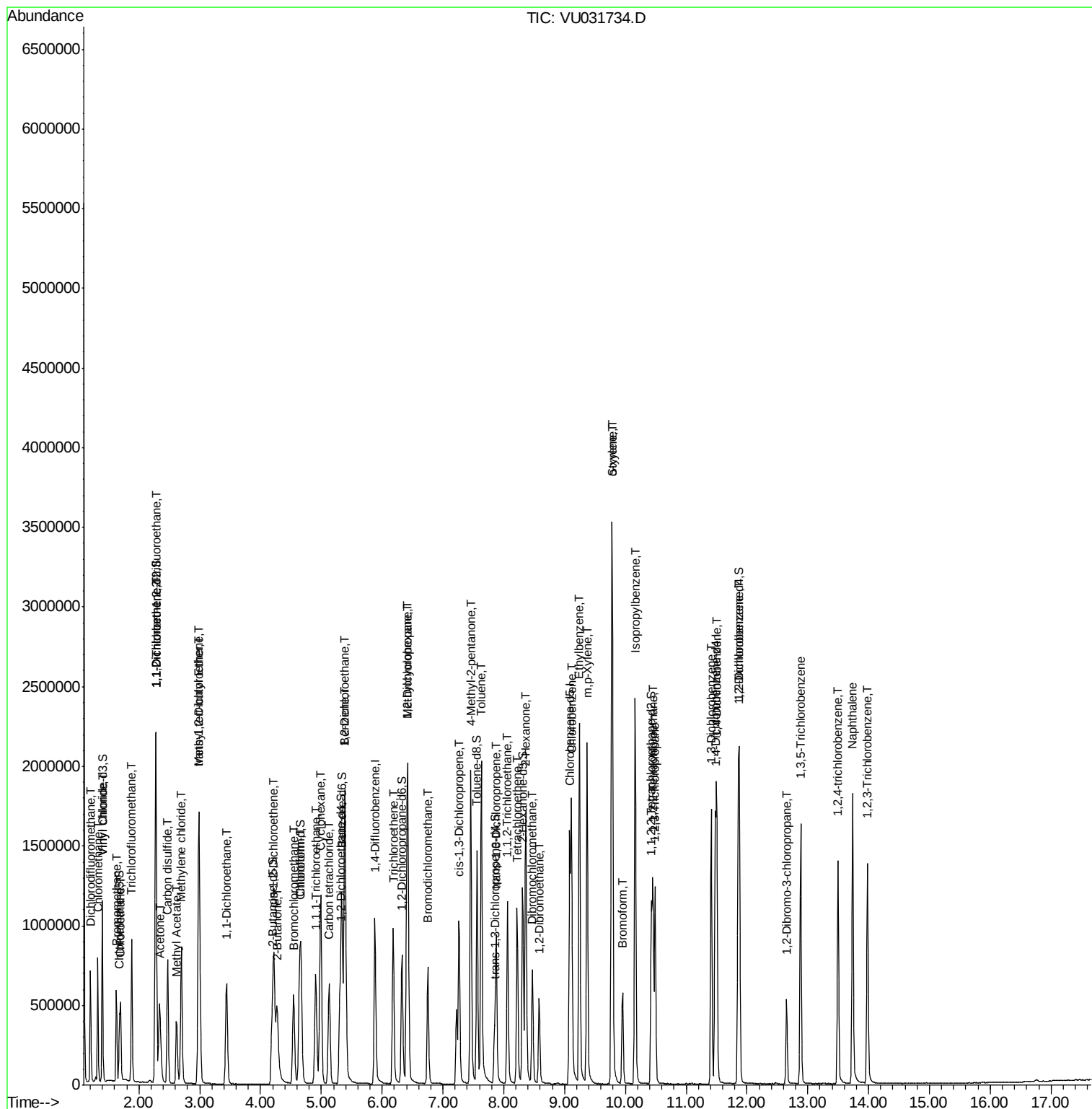
(#) = qualifier out of range (m) = manual integration (+) = signals summed

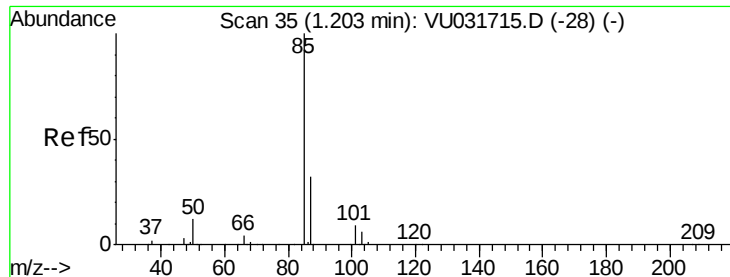
Data File : VU031734.D

```
Acq On       : 03 May 2019   09:01
Operator     : JC/SP
Sample       : VSTDCCC050
Misc         : 5.0mL/MSVOA_U/WATER
ALS Vial     : 2      Sample Multiplier: 1
```

Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

Quant Time: May 04 02:33:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Fri May 03 07:25:23 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 43.010 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

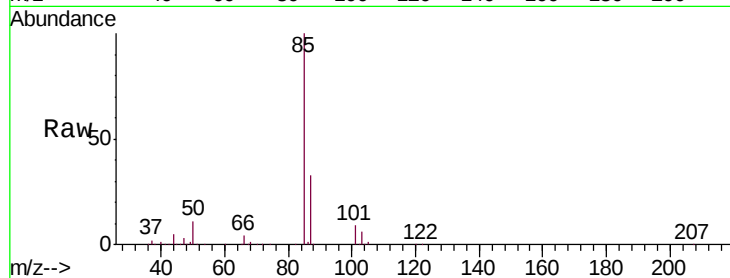
VSTD05033

Tgt Ion: 85 Resp: 409933

Ion Ratio Lower Upper

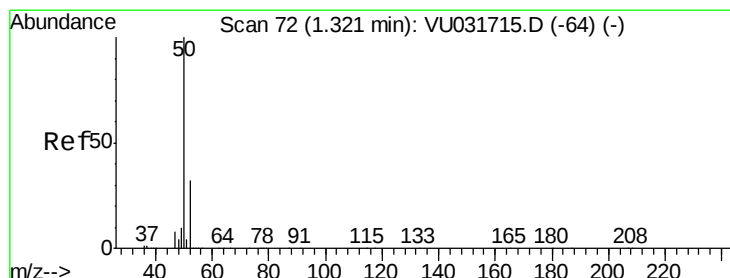
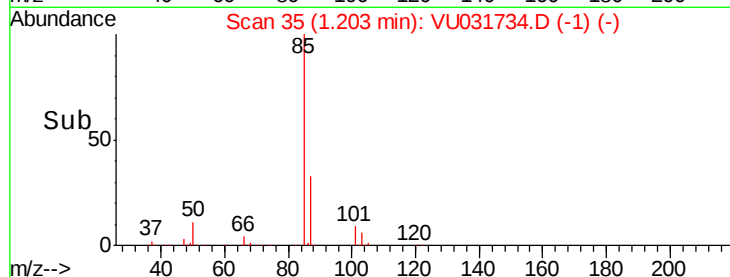
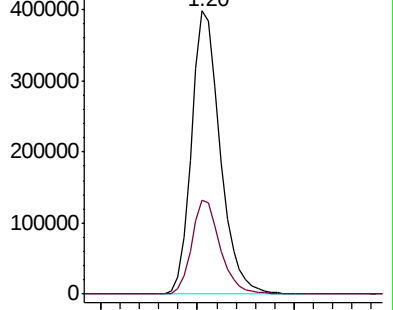
85 100

87 32.9 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031715.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU031715.D (-28) (-)



#3

Chloromethane

Concen: 42.971 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031734.D

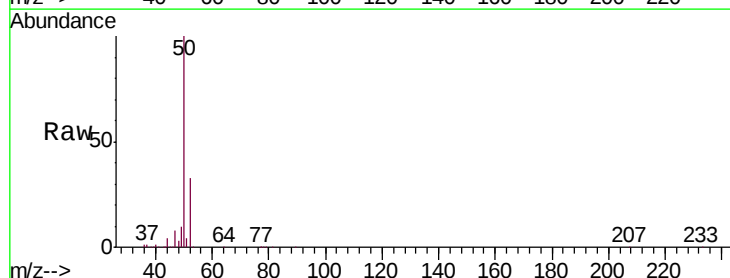
Acq: 03 May 2019 09:01

Tgt Ion: 50 Resp: 495531

Ion Ratio Lower Upper

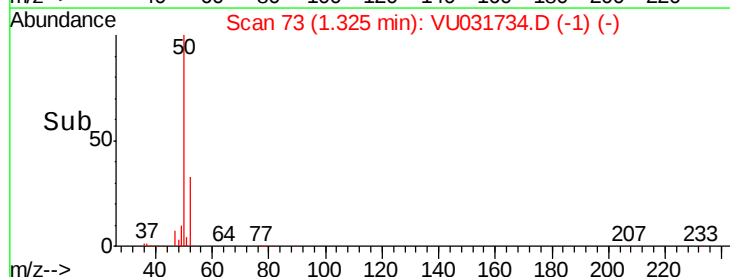
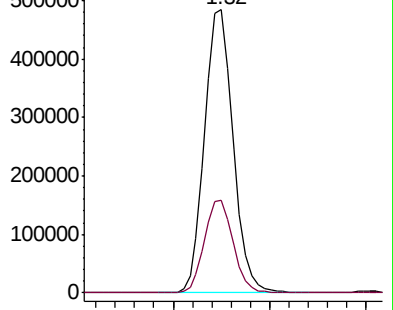
50 100

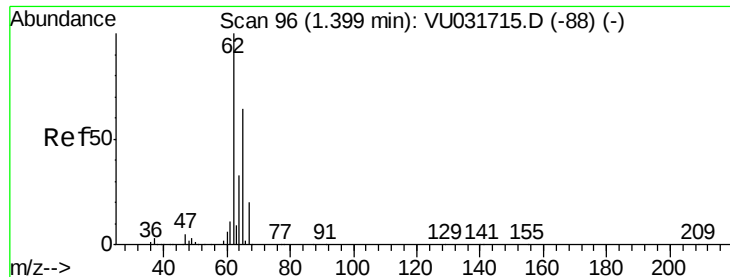
52 32.7 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU031715.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU031715.D (-64) (-)





#5

Vinyl chloride

Concen: 43.935 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

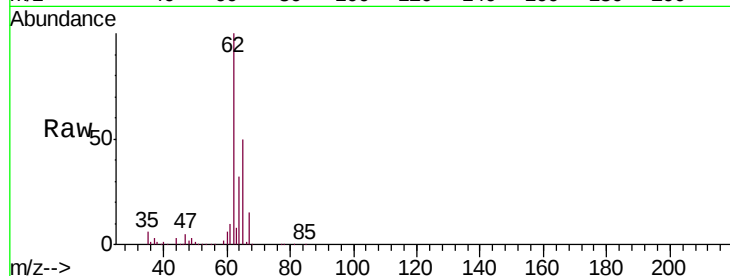
VSTD05033

Tgt Ion: 62 Resp: 473672

Ion Ratio Lower Upper

62 100

64 32.2 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU031715.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031715.D (-88) (-)

1.40

400000

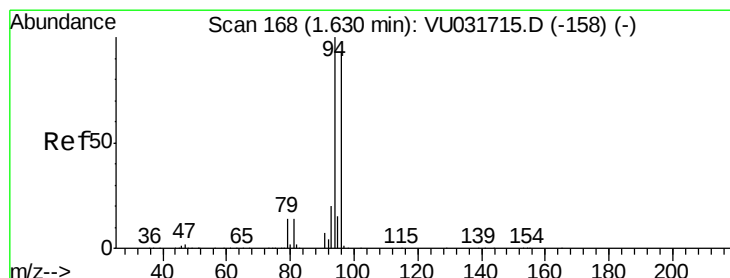
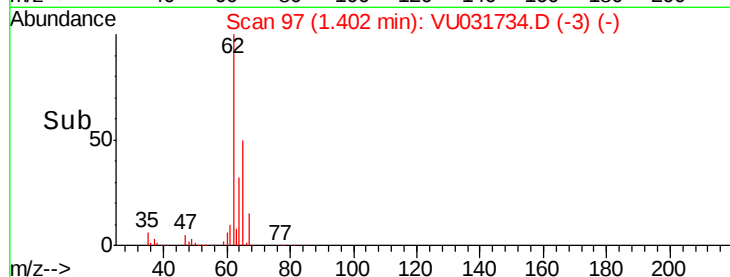
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 42.681 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031734.D

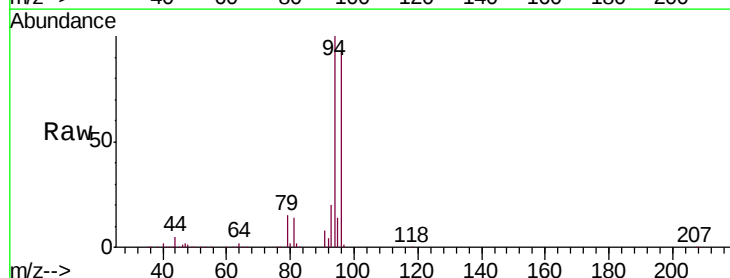
Acq: 03 May 2019 09:01

Tgt Ion: 94 Resp: 242668

Ion Ratio Lower Upper

94 100

96 92.9 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU031715.D (-158) (-)

Ion 96.00 (95.70 to 96.70): VU031715.D (-158) (-)

1.63

200000

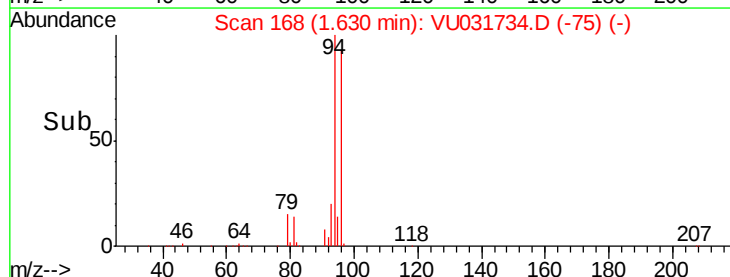
150000

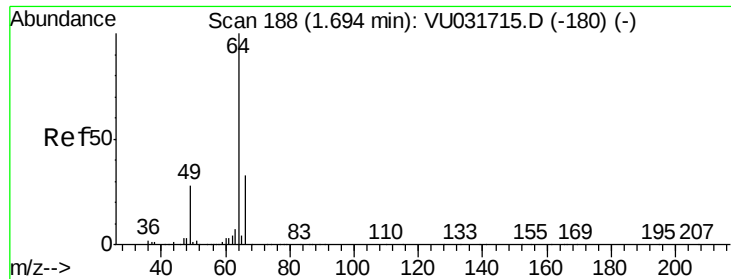
100000

50000

0

Time-->





#8

Chloroethane

Concen: 45.872 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

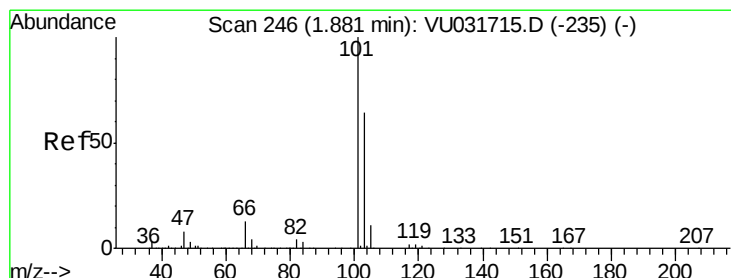
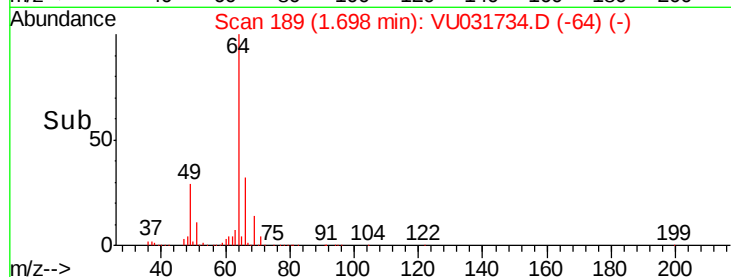
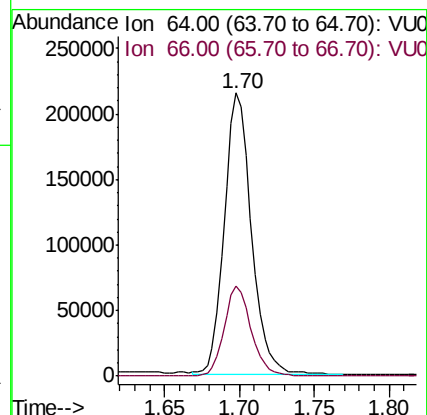
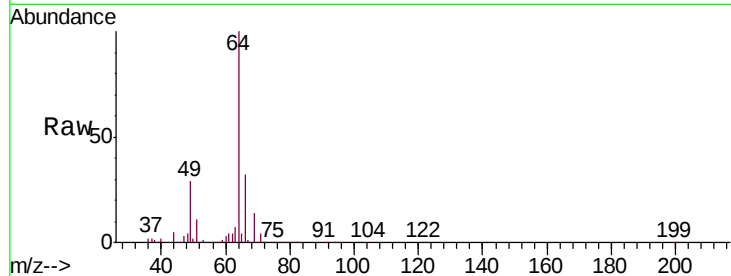
VSTD05033

Tgt Ion: 64 Resp: 270336

Ion Ratio Lower Upper

64 100

66 31.8 23.2 43.0



#9

Trichlorofluoromethane

Concen: 43.391 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU031734.D

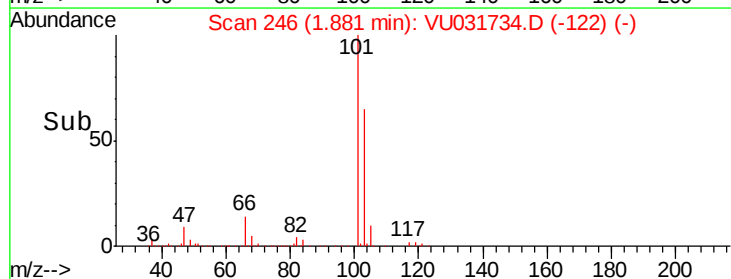
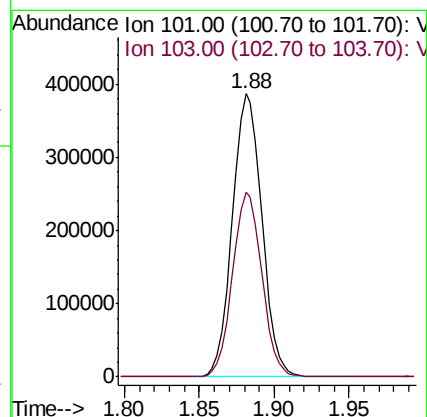
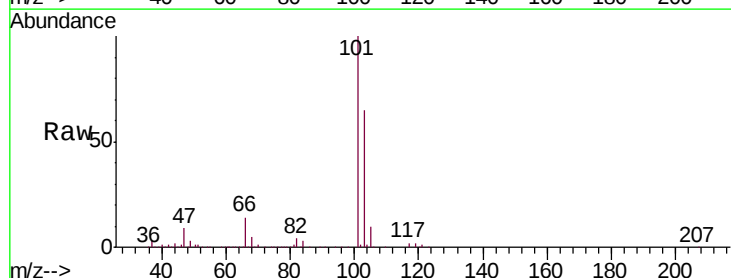
Acq: 03 May 2019 09:01

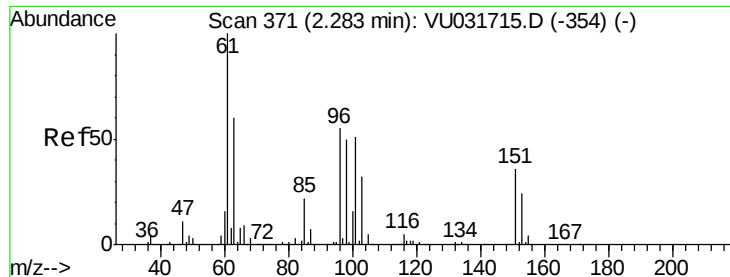
Tgt Ion: 101 Resp: 533287

Ion Ratio Lower Upper

101 100

103 64.7 50.8 76.2





#10

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

Concen: 46.313 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

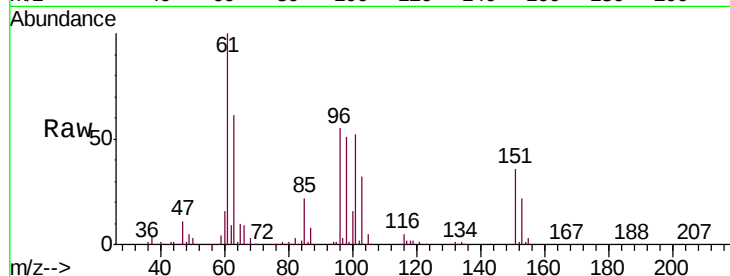
Tgt Ion:101 Resp: 321763

Ion Ratio Lower Upper

101 100

85 44.9 36.1 54.1

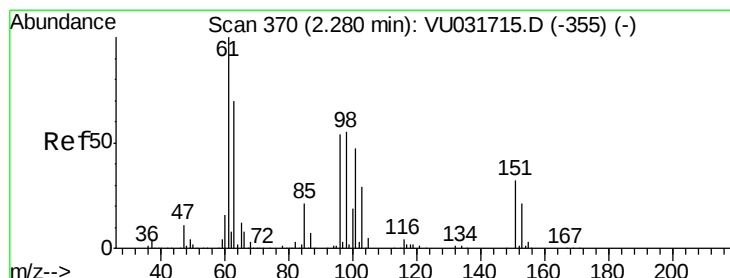
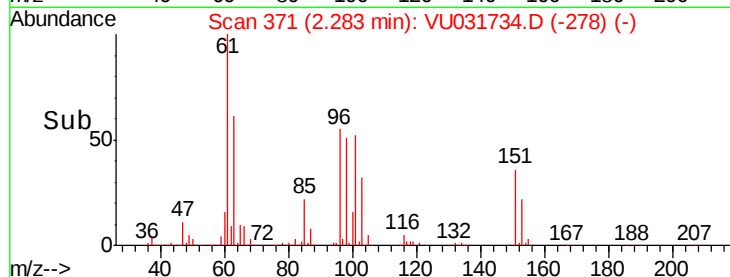
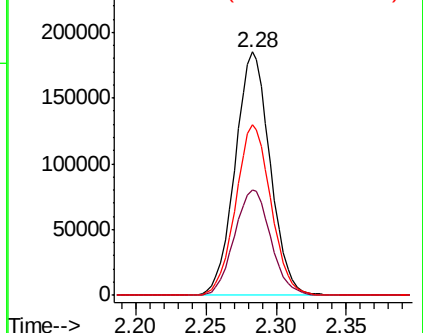
151 70.6 56.1 84.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 45.922 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

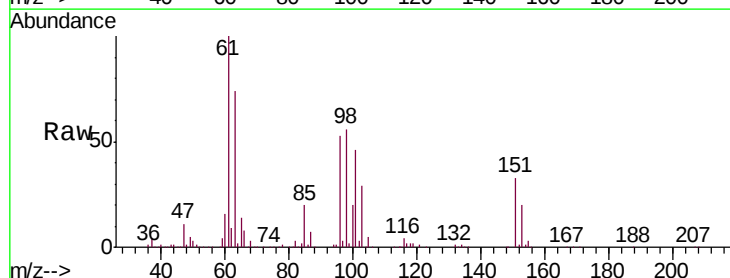
Tgt Ion: 96 Resp: 310541

Ion Ratio Lower Upper

96 100

61 187.0 135.0 250.6

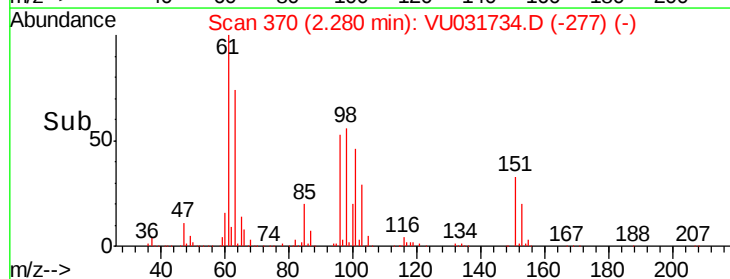
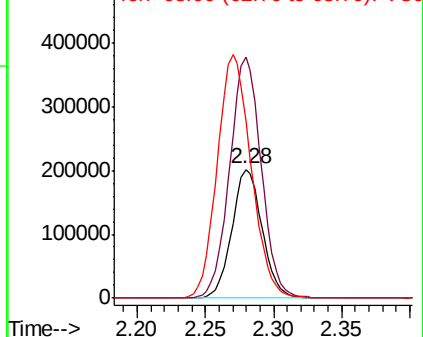
63 137.7 103.5 192.3

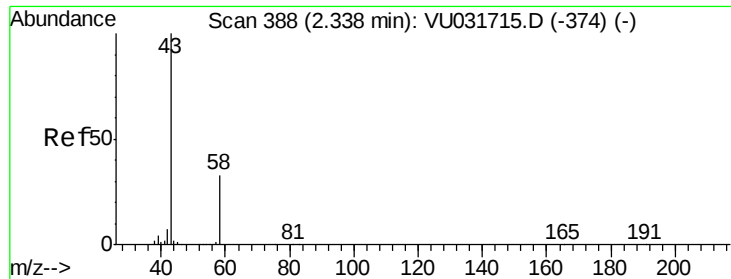


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 111.182 ug/L

RT: 2.34 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

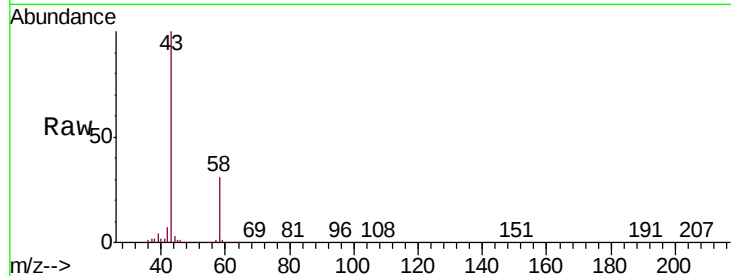
VSTD05033

Tgt Ion: 43 Resp: 823121

Ion Ratio Lower Upper

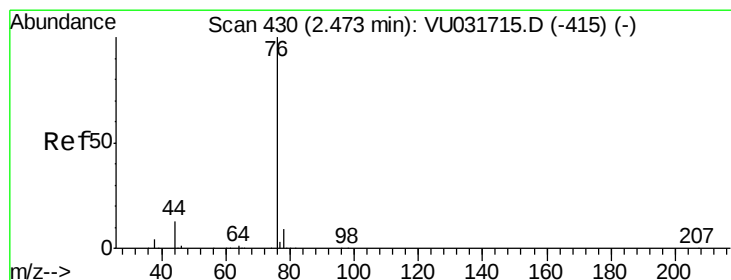
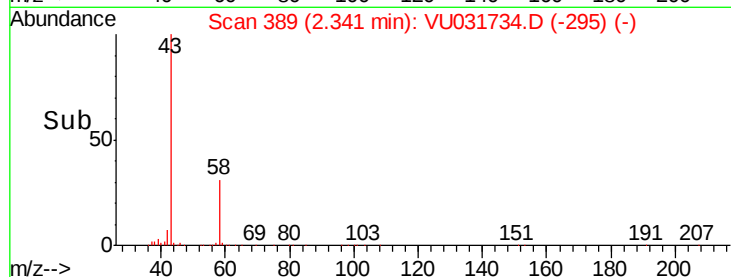
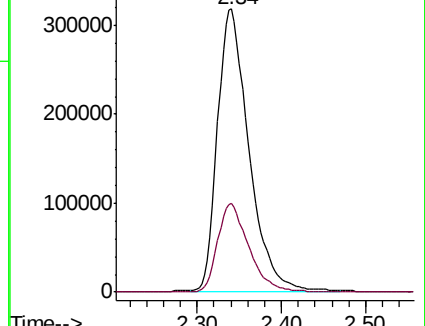
43 100

58 30.3 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031715.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031715.D (-374) (-)



#14

Carbon disulfide

Concen: 42.180 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031734.D

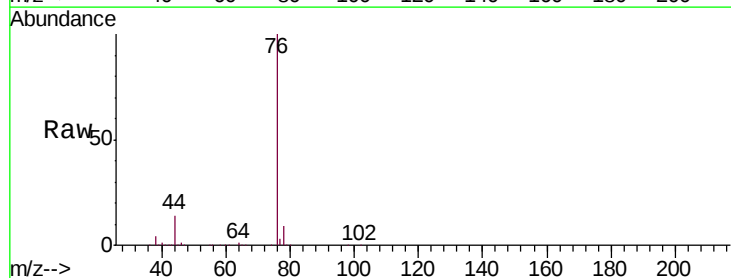
Acq: 03 May 2019 09:01

Tgt Ion: 76 Resp: 946519

Ion Ratio Lower Upper

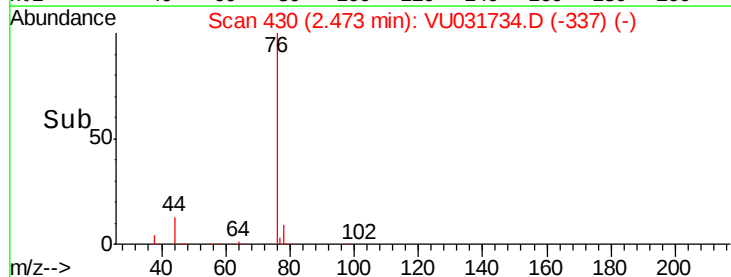
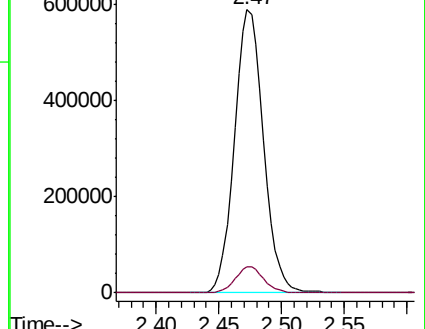
76 100

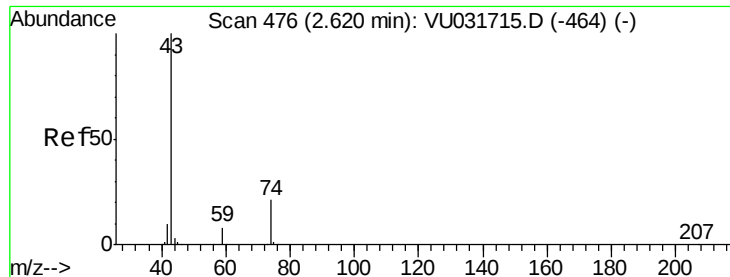
78 9.1 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU031715.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU031715.D (-415) (-)

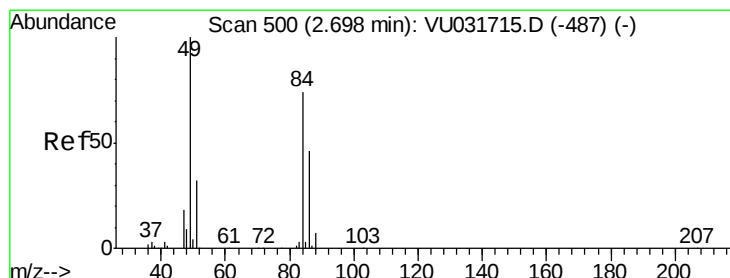
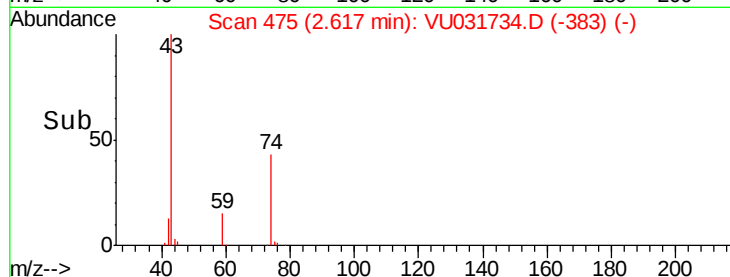
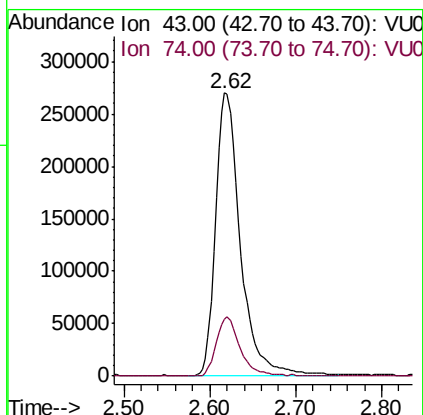
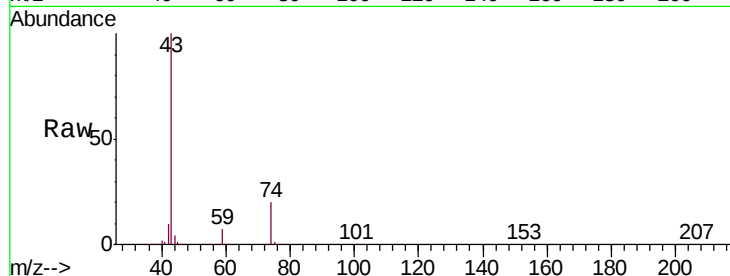




#15
Methyl Acetate
Concen: 48.266 ug/L
RT: 2.62 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU031734.D
Acq: 03 May 2019 09:01

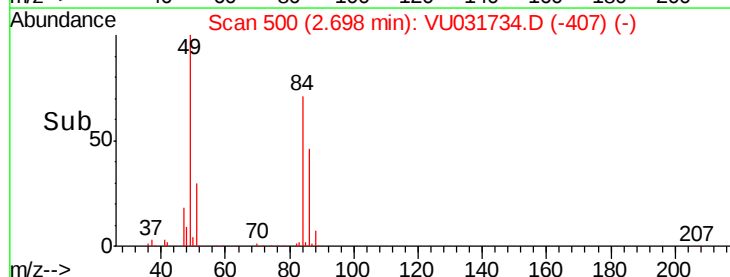
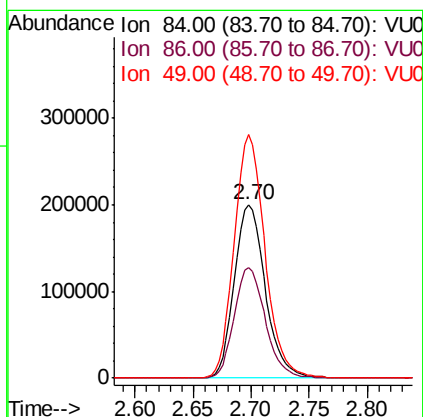
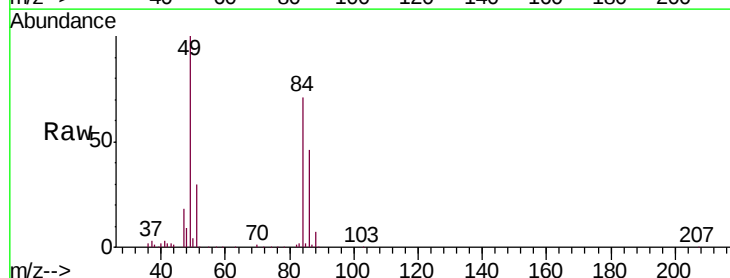
Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

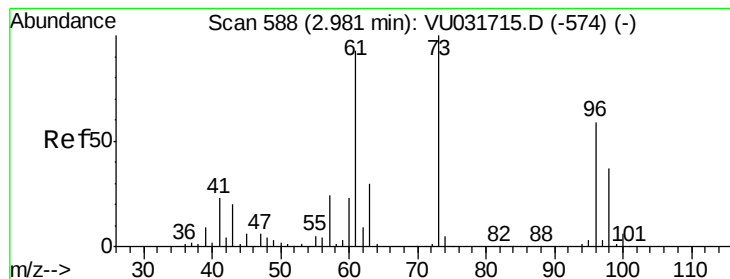
Tgt Ion: 43 Resp: 540685
Ion Ratio Lower Upper
43 100
74 20.1 15.7 23.5



#16
Methylene chloride
Concen: 46.679 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU031734.D
Acq: 03 May 2019 09:01

Tgt Ion: 84 Resp: 372522
Ion Ratio Lower Upper
84 100
86 63.9 44.7 83.1
49 140.1 96.5 179.3





#17

trans-1,2-Dichloroethene

Concen: 46.112 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

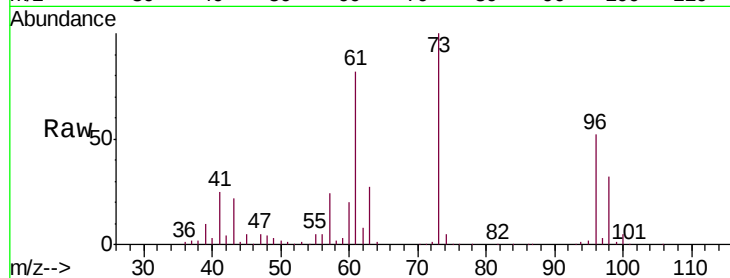
Tgt Ion: 96 Resp: 324922

Ion Ratio Lower Upper

96 100

61 158.2 114.5 212.7

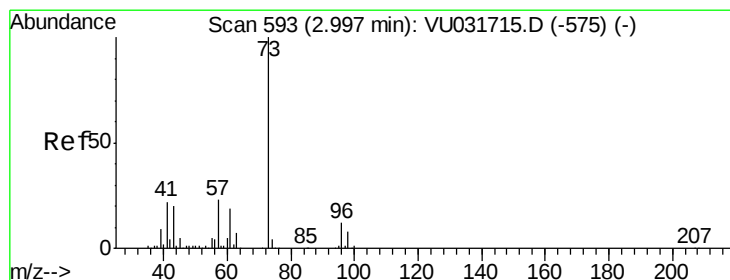
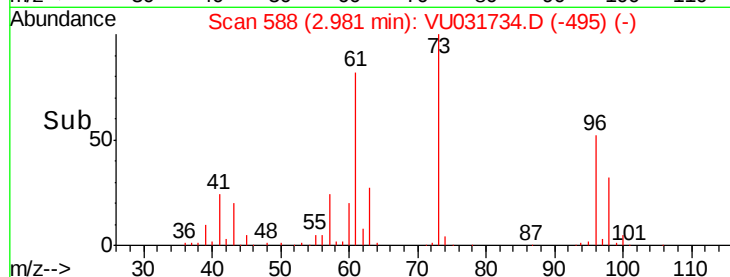
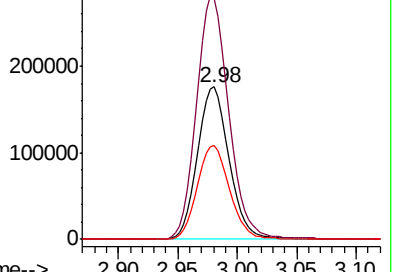
98 61.6 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU031715.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU031715.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU031715.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 52.473 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

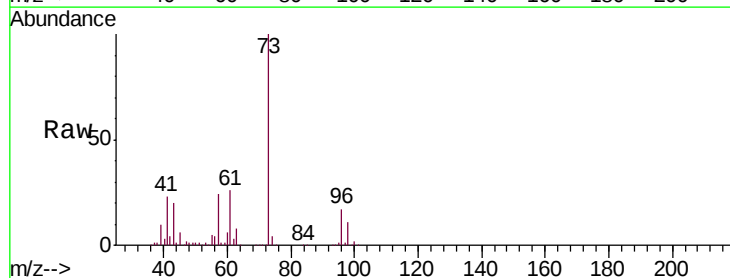
Tgt Ion: 73 Resp: 1177996

Ion Ratio Lower Upper

73 100

43 20.7 17.0 25.4

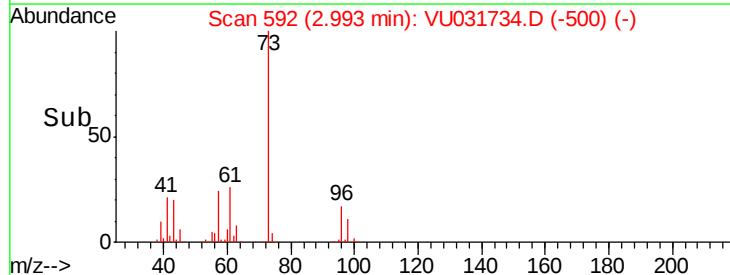
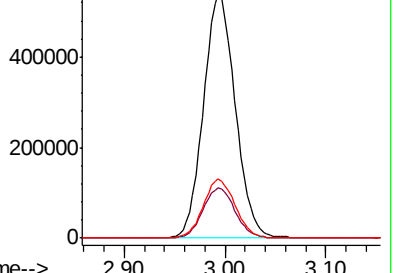
57 24.2 19.5 29.3

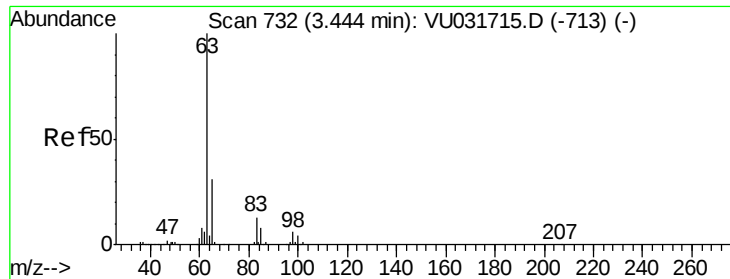


Abundance Ion 73.00 (72.70 to 73.70): VU031715.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU031715.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU031715.D (-575) (-)

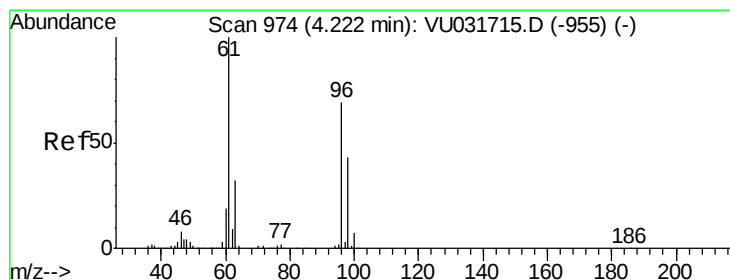
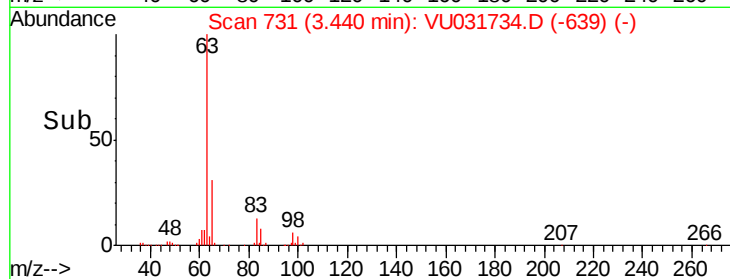
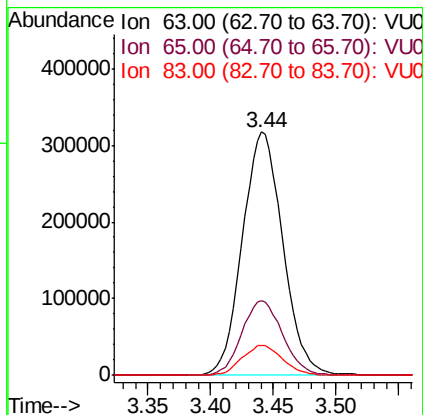
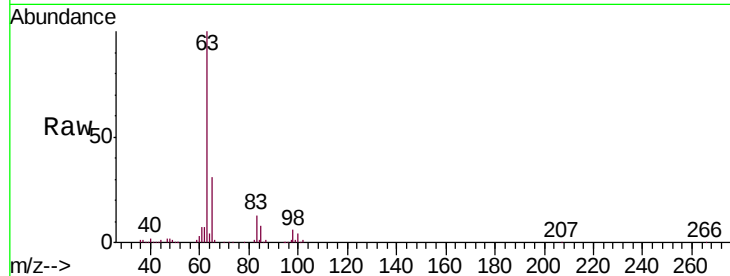




#19
 1,1-Dichloroethane
 Concen: 47.936 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU031734.D
 Acq: 03 May 2019 09:01

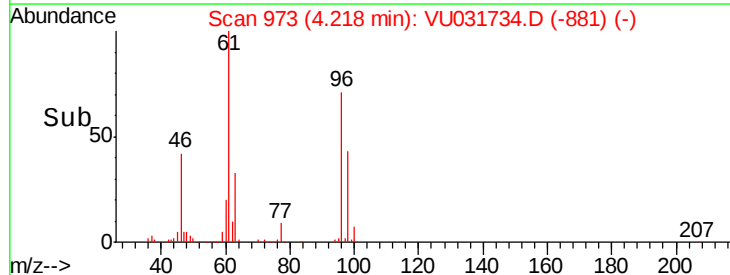
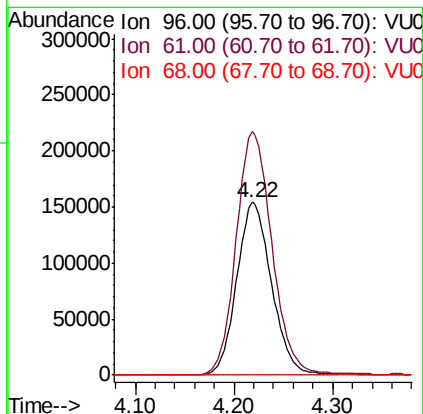
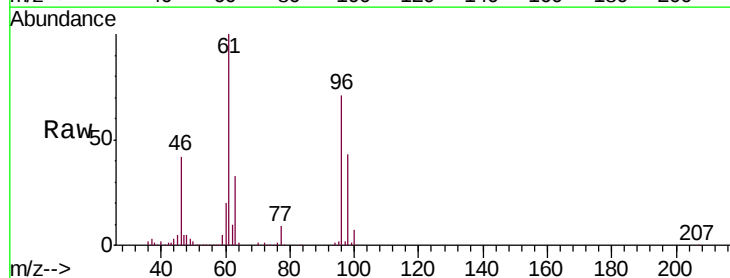
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

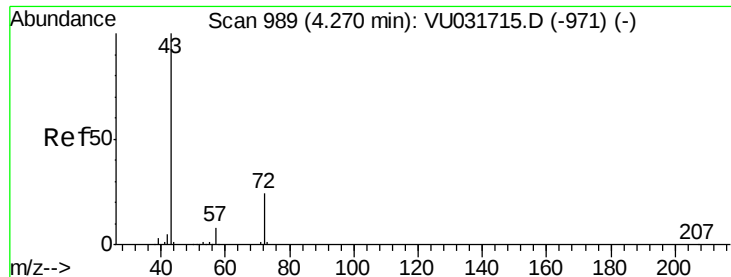
Tgt Ion: 63 Resp: 711348
 Ion Ratio Lower Upper
 63 100
 65 30.7 22.0 40.8
 83 12.5 8.8 16.4



#20
 cis-1,2-Dichloroethene
 Concen: 49.831 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031734.D
 Acq: 03 May 2019 09:01

Tgt Ion: 96 Resp: 376648
 Ion Ratio Lower Upper
 96 100
 61 140.8 99.5 184.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 116.572 ug/L

RT: 4.27 min Scan# 989

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

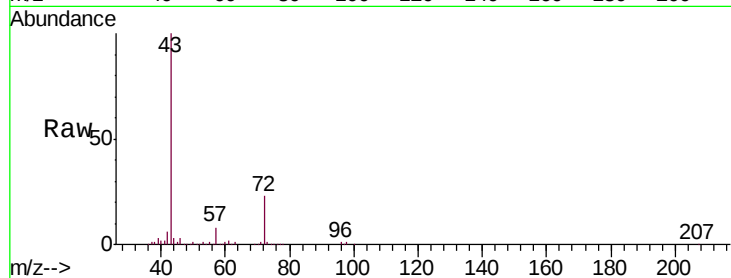
VSTD05033

Tgt Ion: 43 Resp: 956146

Ion Ratio Lower Upper

43 100

72 22.6 11.4 34.2



Abundance Ion 43.00 (42.70 to 43.70): VU031715.D (-971) (-)

Ion 72.00 (71.70 to 72.70): VU031715.D (-971) (-)

4.27

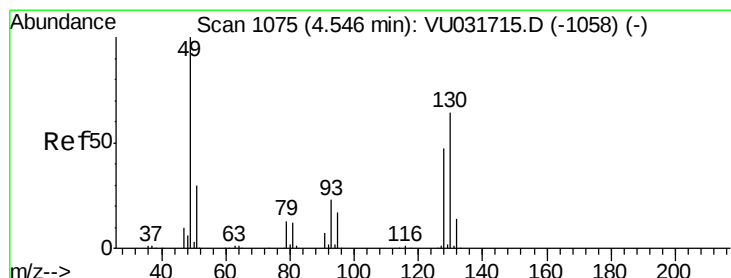
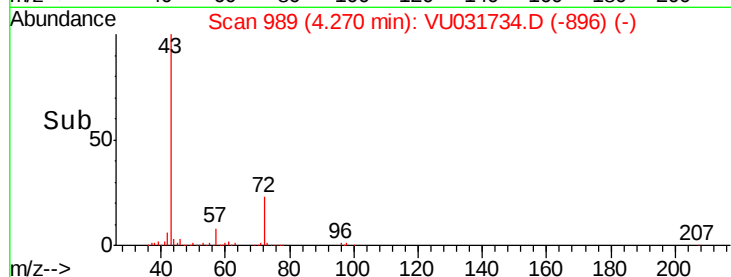
300000

200000

100000

0

Time--> 4.10 4.20 4.30 4.40 4.50



#23

Bromochloromethane

Concen: 47.054 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Tgt Ion: 128 Resp: 172820

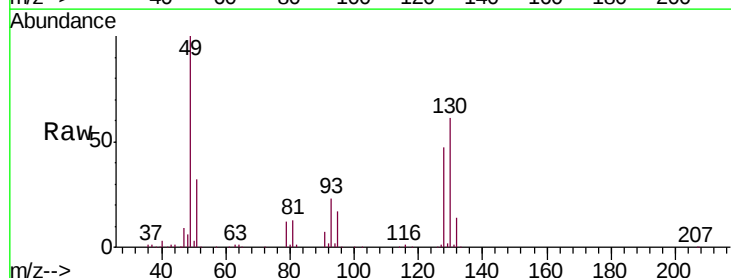
Ion Ratio Lower Upper

128 100

49 214.1 152.6 283.4

130 129.8 93.7 173.9

51 68.1 54.2 81.4



Abundance Ion 128.00 (127.70 to 128.70): VU031715.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU031715.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU031715.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU031715.D (-1058) (-)

200000

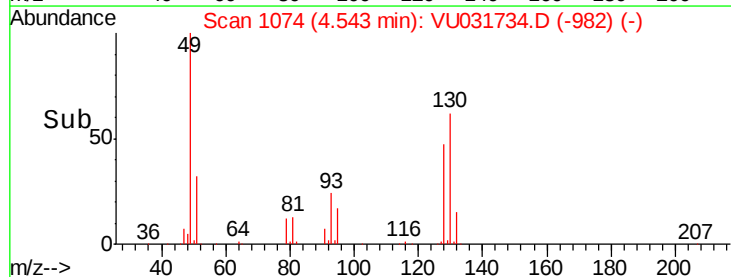
150000

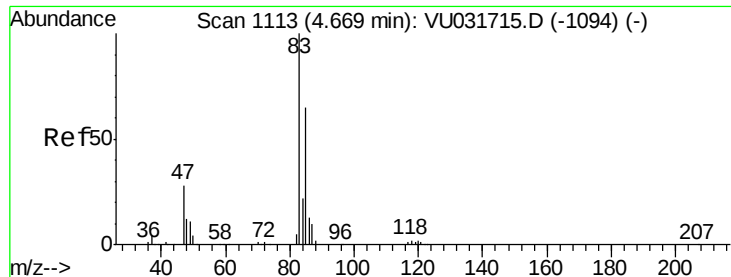
100000

50000

0

Time--> 4.50 4.60





#25

Chloroform

Concen: 46.162 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

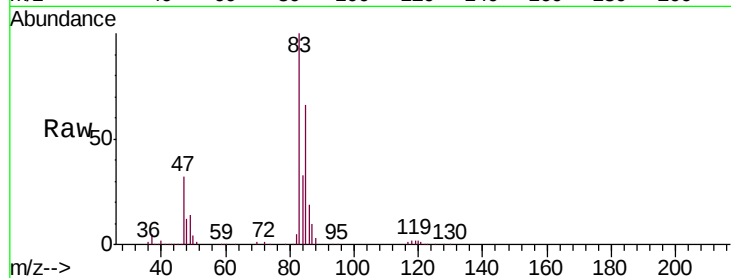
VSTD05033

Tgt Ion: 83 Resp: 655068

Ion Ratio Lower Upper

83 100

85 65.8 44.9 83.3



Abundance Ion 83.00 (82.70 to 83.70): VU031715.D (-1094) (-)

Ion 85.00 (84.70 to 85.70): VU031715.D (-1094) (-)

4.67

300000

250000

200000

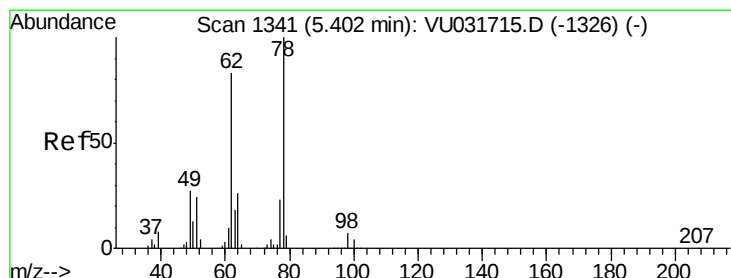
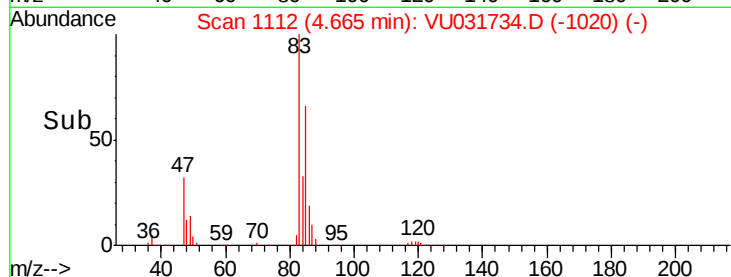
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 46.874 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU031734.D

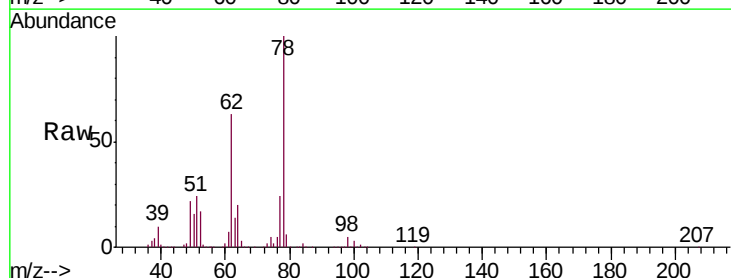
Acq: 03 May 2019 09:01

Tgt Ion: 62 Resp: 540292

Ion Ratio Lower Upper

62 100

98 8.6 7.1 10.7



Abundance Ion 62.00 (61.70 to 62.70): VU031715.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU031715.D (-1326) (-)

5.40

250000

200000

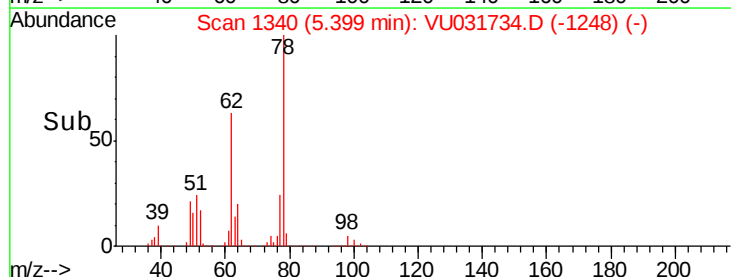
150000

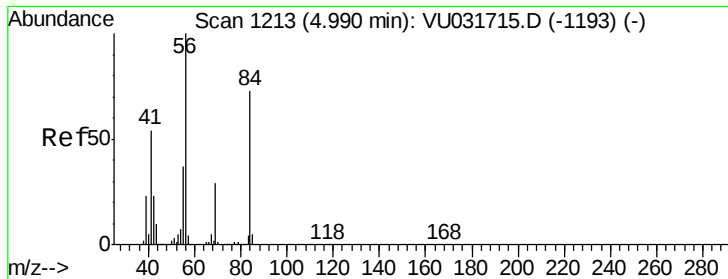
100000

50000

0

Time-->

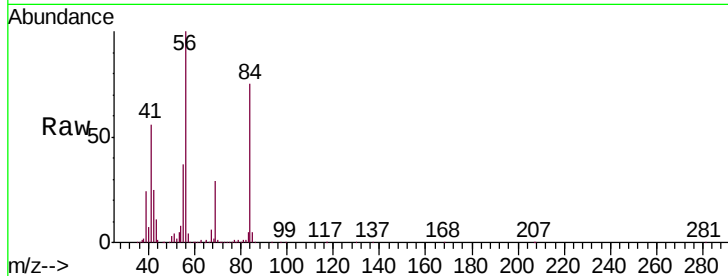




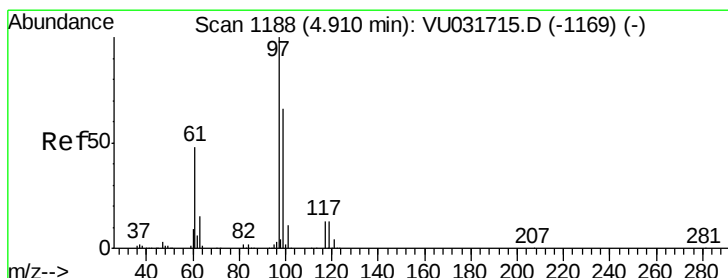
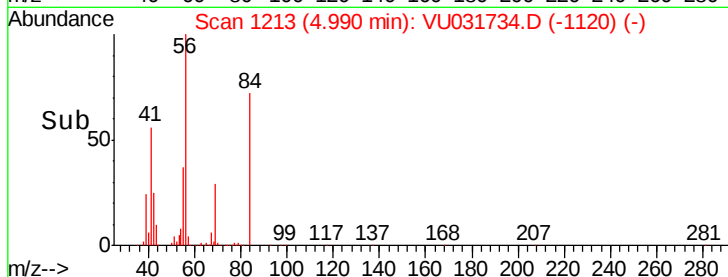
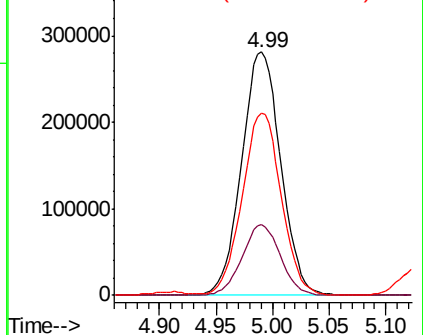
#29
Cyclohexane
Concen: 51.684 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031734.D
Acq: 03 May 2019 09:01

Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

Tgt Ion: 56 Resp: 675962
Ion Ratio Lower Upper
56 100
69 28.4 22.3 33.5
84 74.1 57.5 86.3

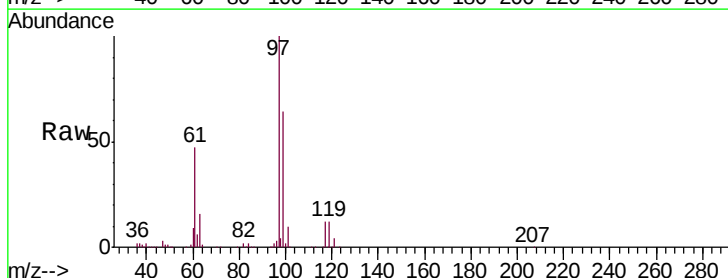


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

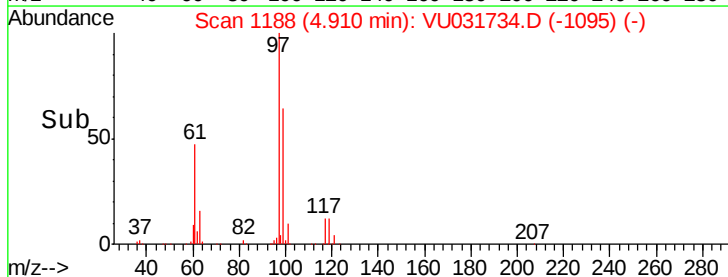
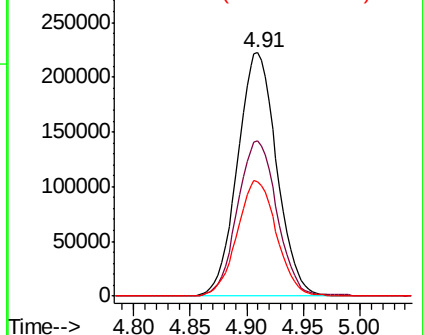


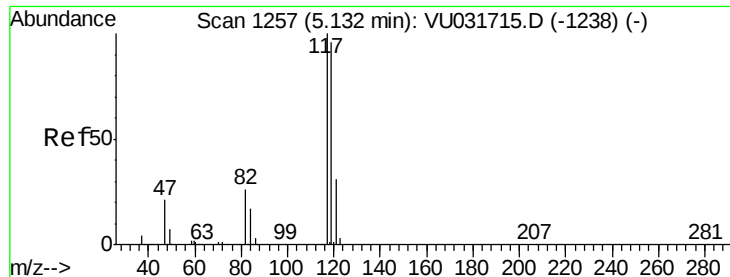
#30
1,1,1-Trichloroethane
Concen: 46.300 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU031734.D
Acq: 03 May 2019 09:01

Tgt Ion: 97 Resp: 536080
Ion Ratio Lower Upper
97 100
99 64.3 52.0 78.0
61 47.4 38.7 58.1



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





#31

Carbon tetrachloride

Concen: 45.577 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

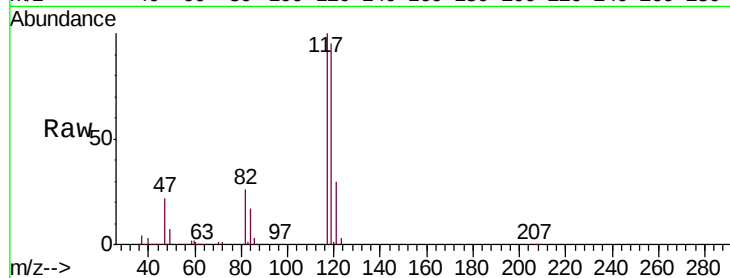
VSTD05033

Tgt Ion:117 Resp: 451046

Ion Ratio Lower Upper

117 100

119 96.6 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.13

200000

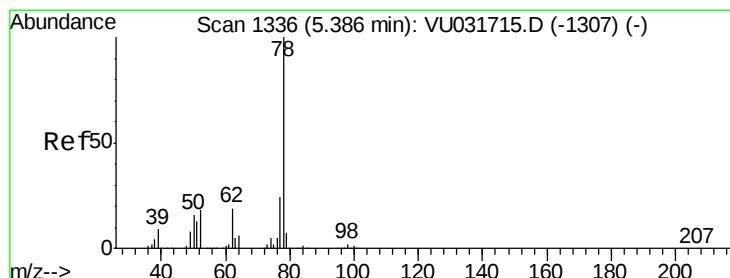
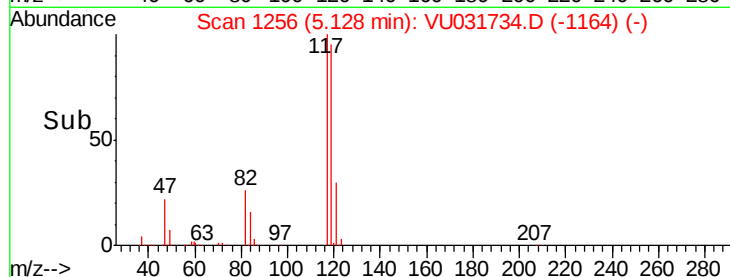
150000

100000

50000

0

Time--> 5.00 5.10 5.20



#33

Benzene

Concen: 48.505 ug/L

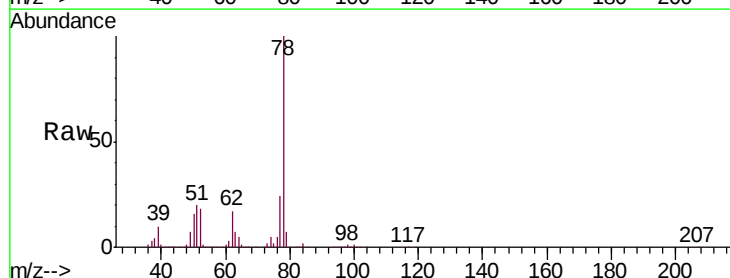
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Tgt Ion: 78 Resp: 1473722



Abundance Ion 78.00 (77.70 to 78.70): VU0

800000

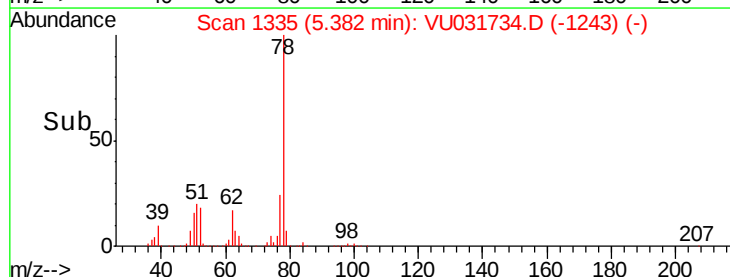
600000

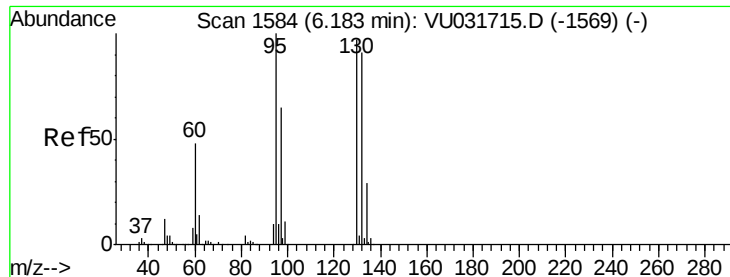
400000

200000

0

Time--> 5.30 5.40 5.50





#34

Trichloroethene

Concen: 49.948 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

Tgt Ion: 95 Resp: 367862

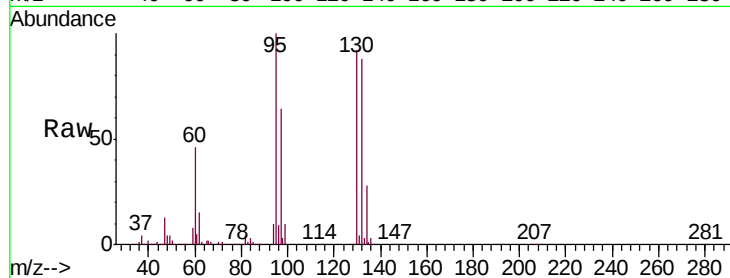
Ion Ratio Lower Upper

95 100

97 64.1 44.8 83.2

132 88.0 63.1 117.1

130 92.2 66.5 123.5

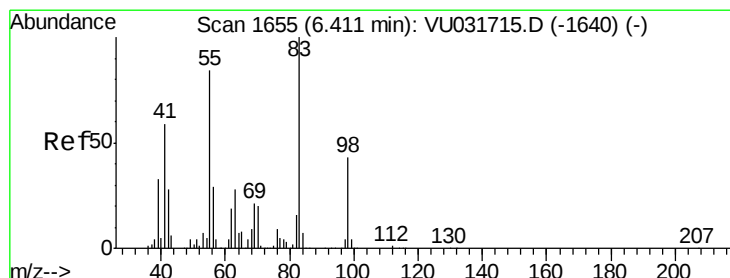
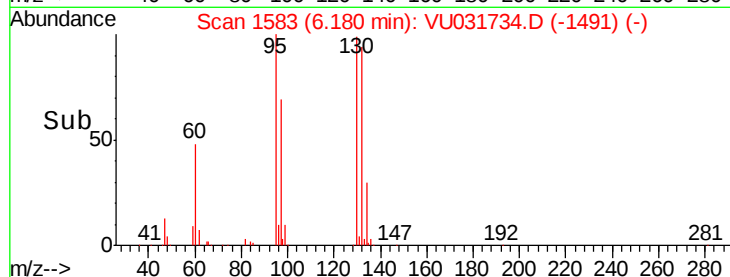
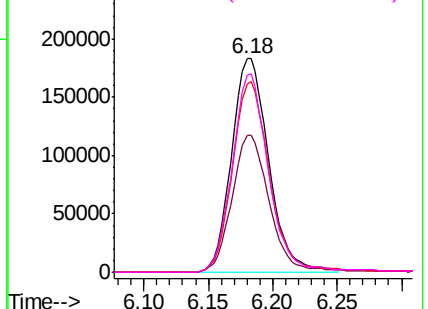


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 53.060 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

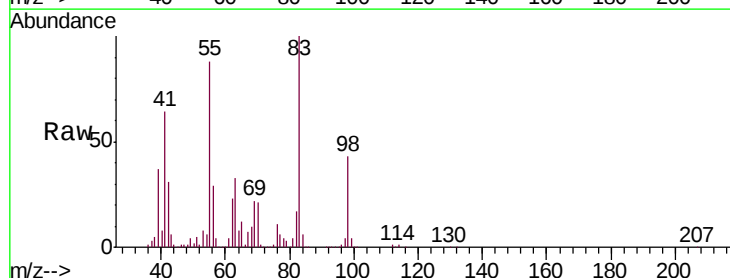
Tgt Ion: 83 Resp: 585648

Ion Ratio Lower Upper

83 100

55 89.0 73.0 109.4

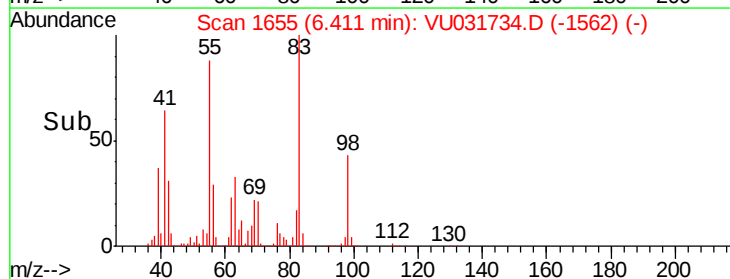
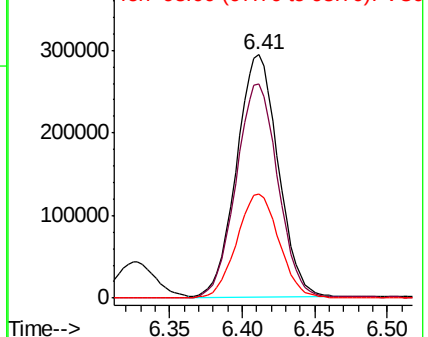
98 43.8 35.3 52.9

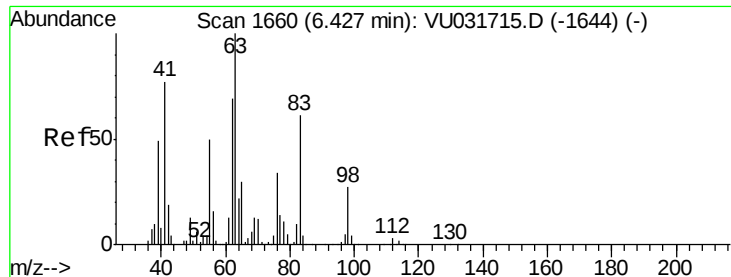


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 49.868 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

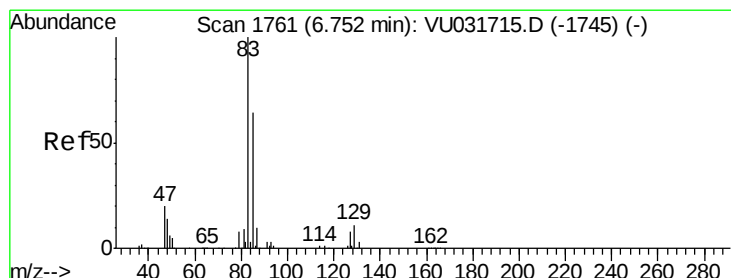
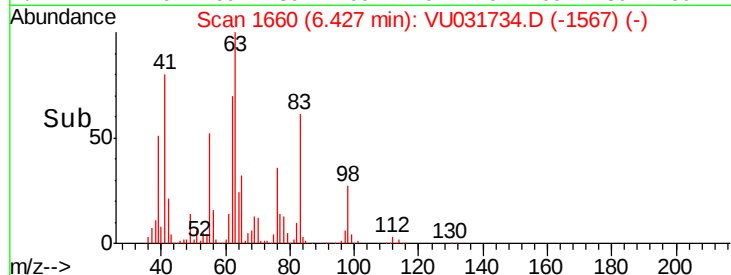
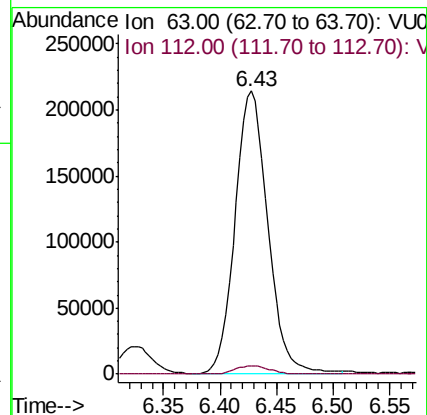
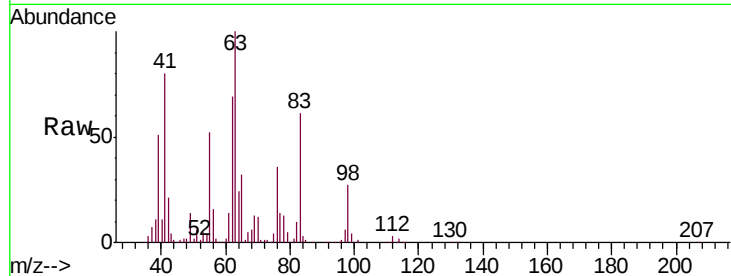
VSTD05033

Tgt Ion: 63 Resp: 430133

Ion Ratio Lower Upper

63 100

112 3.2 2.7 4.1



#38

Bromodichloromethane

Concen: 47.537 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

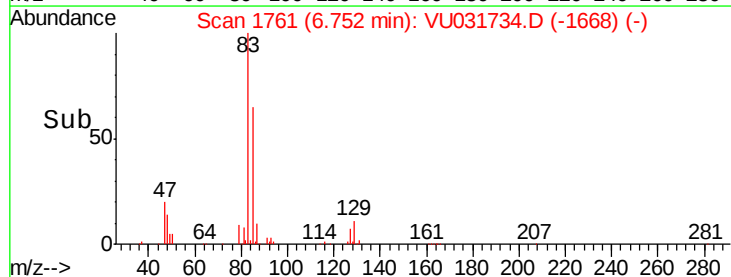
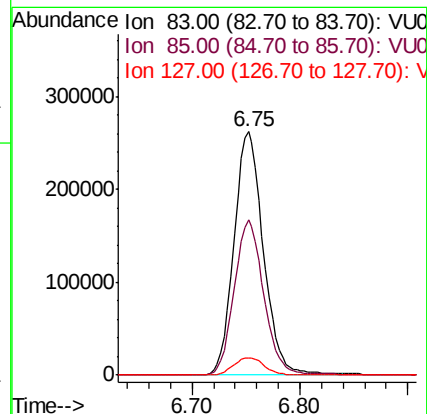
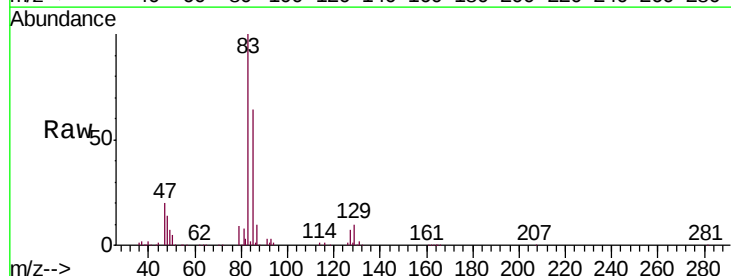
Tgt Ion: 83 Resp: 497149

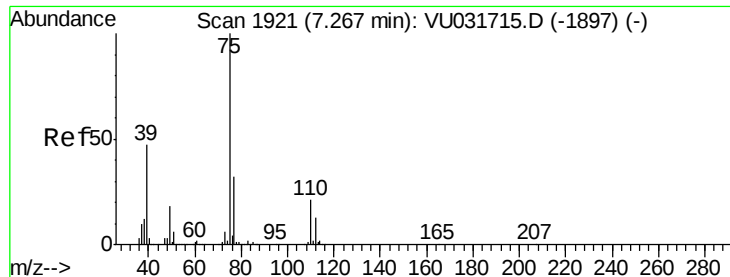
Ion Ratio Lower Upper

83 100

85 63.5 43.7 81.1

127 7.2 6.7 10.1

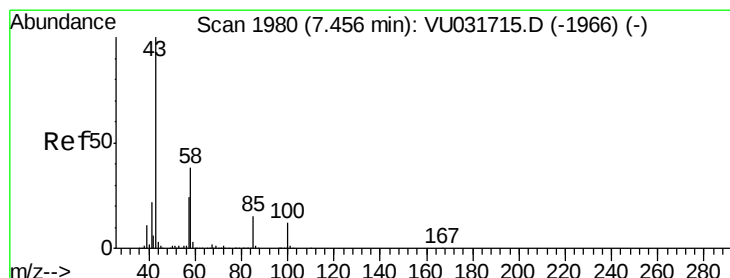
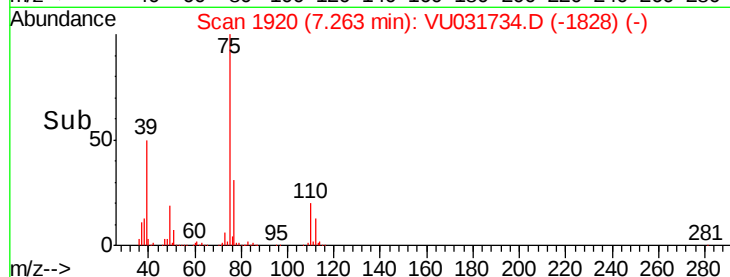
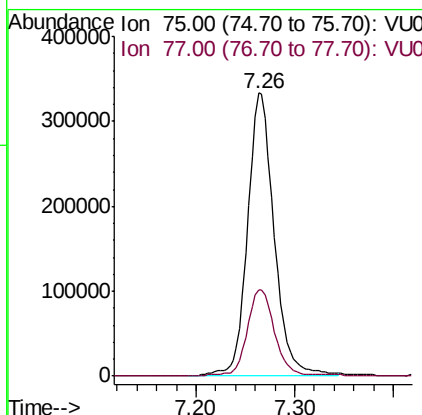
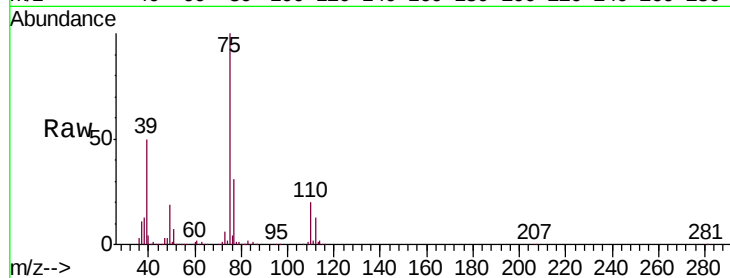




#39
 cis-1,3-Dichloropropene
 Concen: 54.528 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU031734.D
 Acq: 03 May 2019 09:01

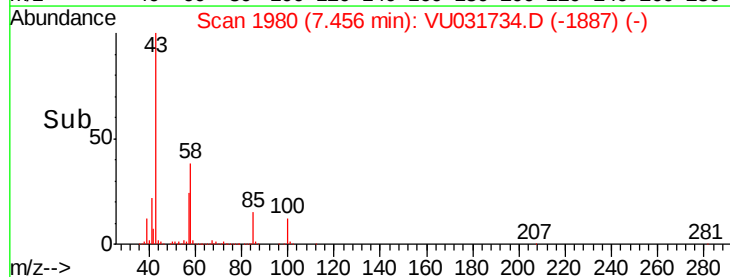
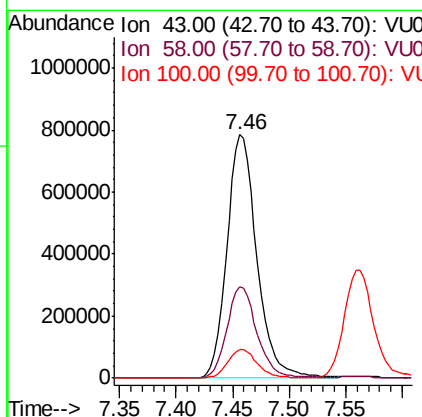
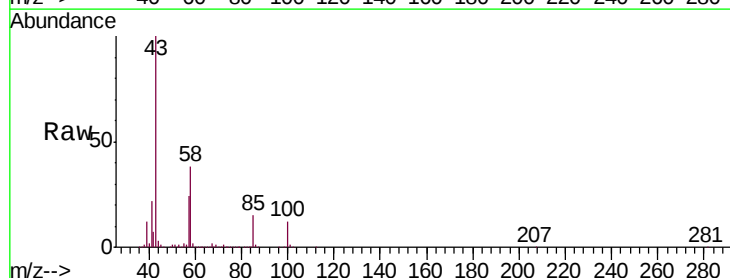
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

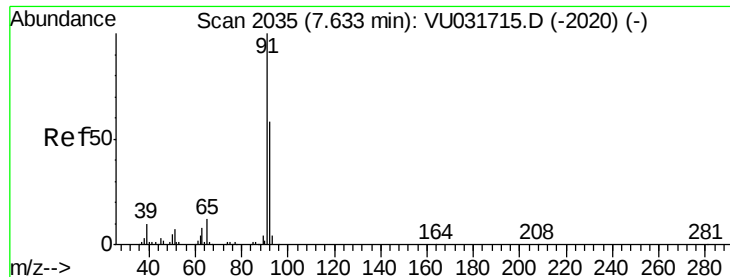
Tgt Ion: 75 Resp: 621471
 Ion Ratio Lower Upper
 75 100
 77 30.6 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 108.518 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU031734.D
 Acq: 03 May 2019 09:01

Tgt Ion: 43 Resp: 1440083
 Ion Ratio Lower Upper
 43 100
 58 37.9 30.1 45.1
 100 11.8 9.6 14.4





#42

Toluene

Concen: 51.191 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

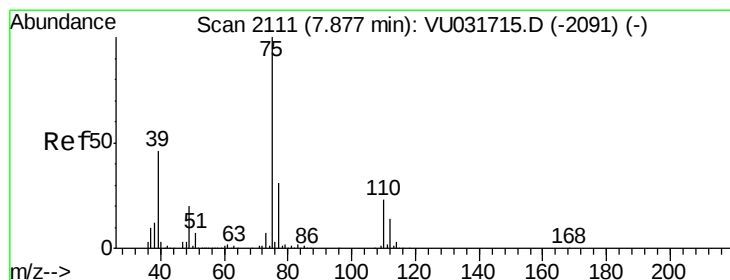
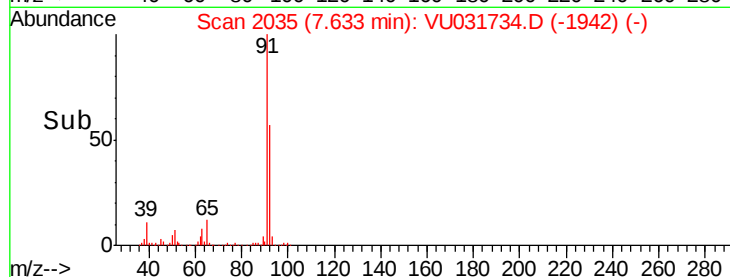
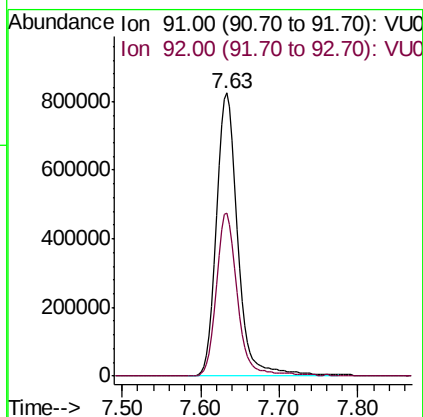
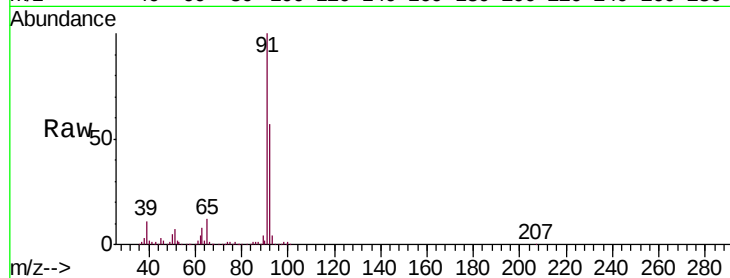
VSTD05033

Tgt Ion: 91 Resp: 1549292

Ion Ratio Lower Upper

91 100

92 57.4 39.0 72.4



#44

trans-1,3-Dichloropropene

Concen: 51.924 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031734.D

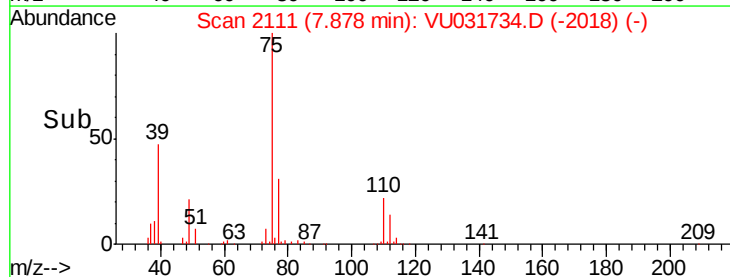
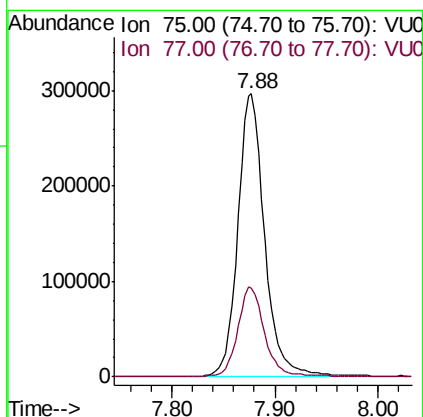
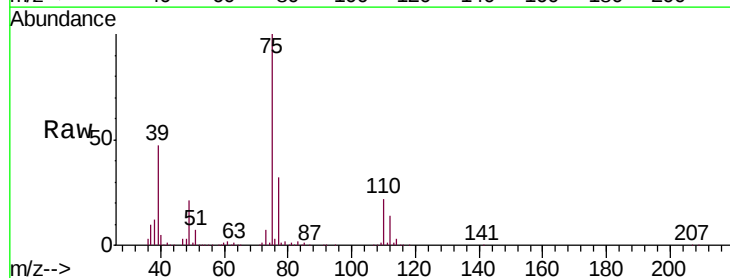
Acq: 03 May 2019 09:01

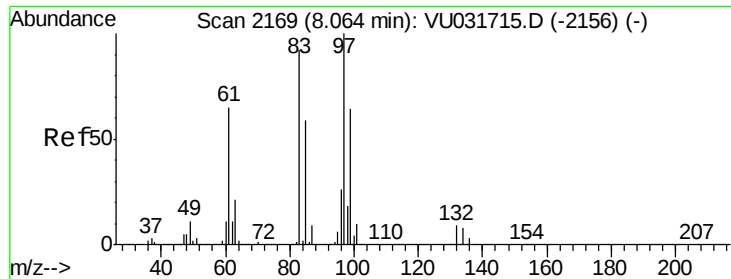
Tgt Ion: 75 Resp: 536756

Ion Ratio Lower Upper

75 100

77 31.5 22.1 41.1

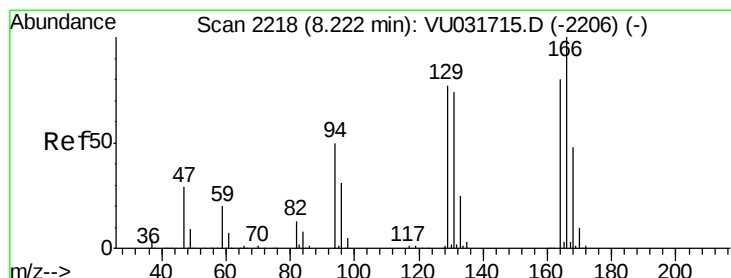
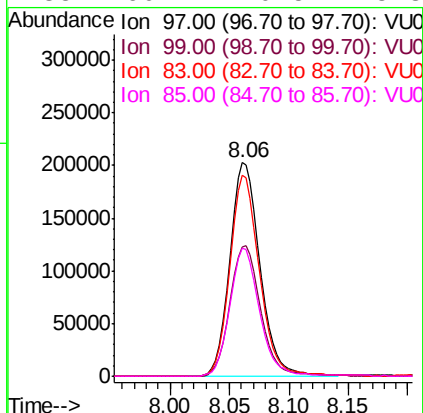
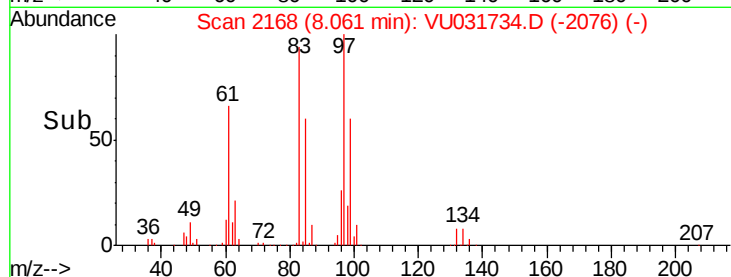
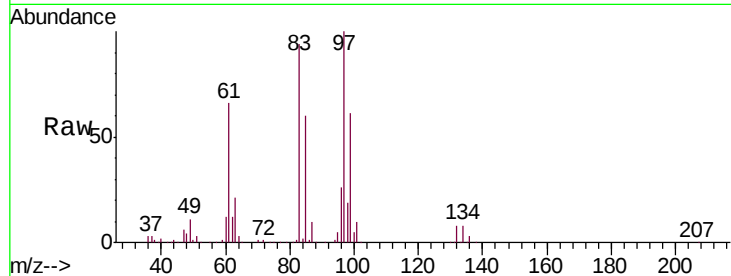




#45
 1,1,2-Trichloroethane
 Concen: 50.185 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU031734.D
 Acq: 03 May 2019 09:01

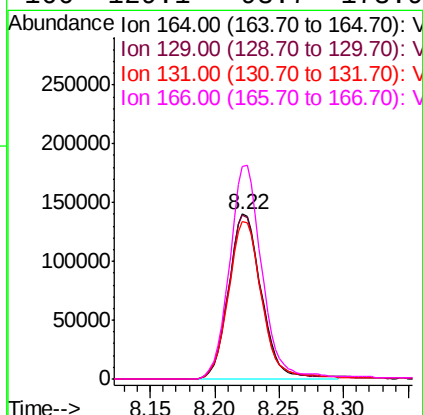
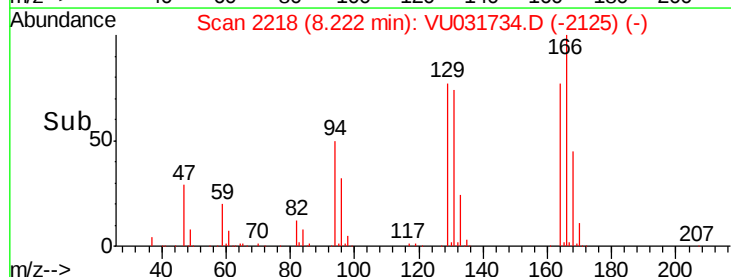
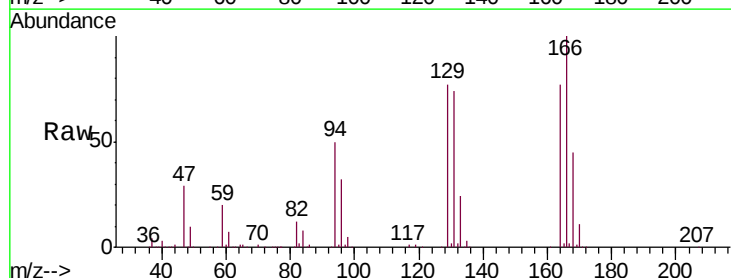
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

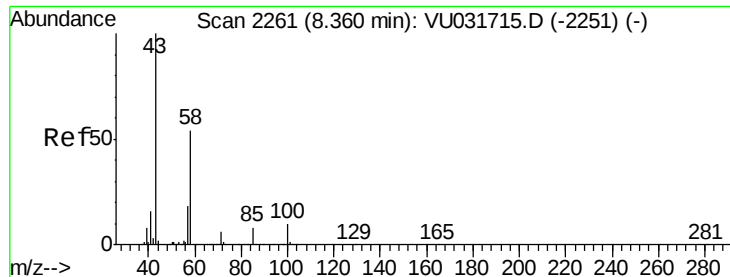
Tgt Ion:	97	Resp:	356850
Ion	Ratio	Lower	Upper
97	100		
99	60.5	43.0	80.0
83	94.3	63.6	118.2
85	60.1	40.5	75.3



#46
 Tetrachloroethene
 Concen: 49.764 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU031734.D
 Acq: 03 May 2019 09:01

Tgt Ion:	164	Resp:	249860
Ion	Ratio	Lower	Upper
164	100		
129	99.7	71.5	132.9
131	95.6	69.0	128.2
166	129.1	93.7	173.9

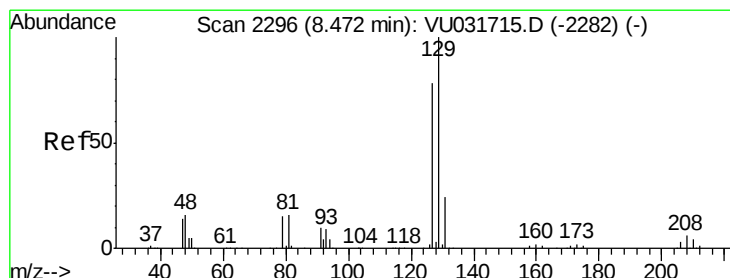
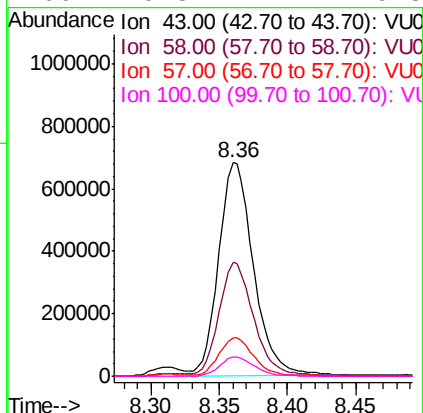
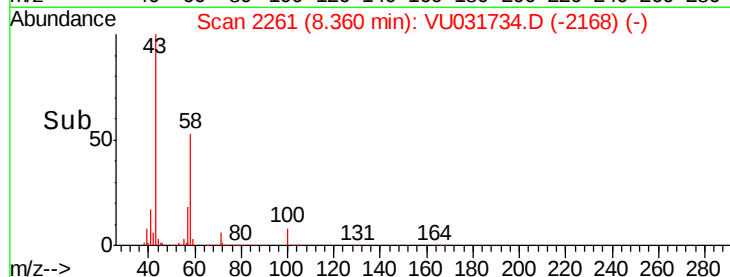
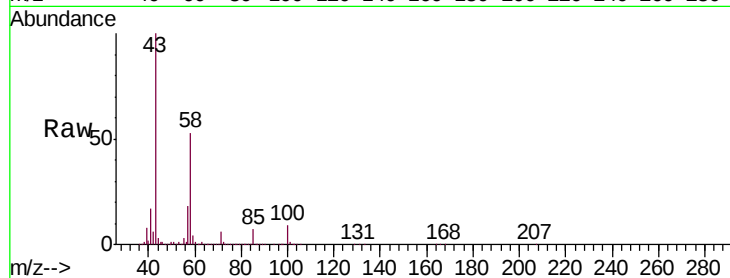




#48
2-Hexanone
Concen: 112.069 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU031734.D
Acq: 03 May 2019 09:01

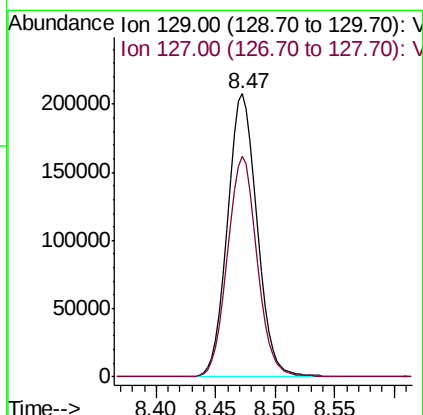
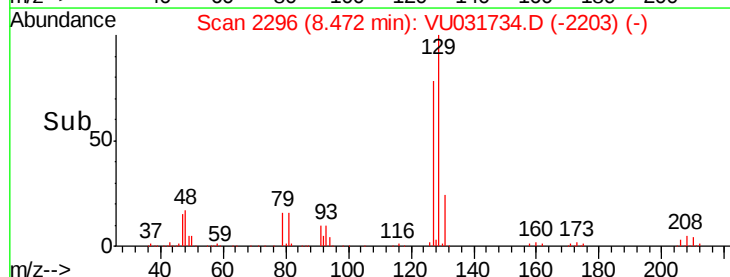
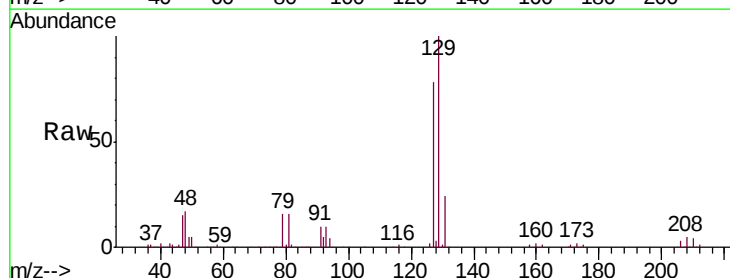
Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

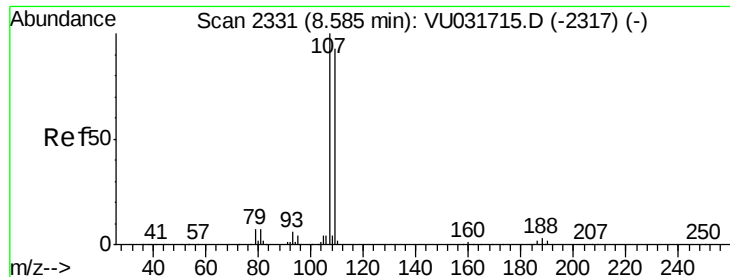
Tgt Ion: 43 Resp: 1202838
Ion Ratio Lower Upper
43 100
58 53.5 42.1 63.1
57 18.3 14.6 22.0
100 9.3 7.2 10.8



#49
Dibromochloromethane
Concen: 48.542 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031734.D
Acq: 03 May 2019 09:01

Tgt Ion: 129 Resp: 359144
Ion Ratio Lower Upper
129 100
127 78.1 54.0 100.2

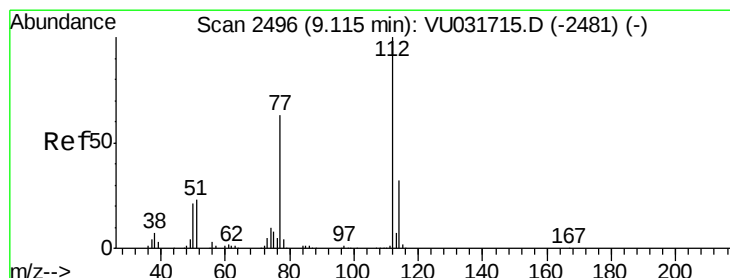
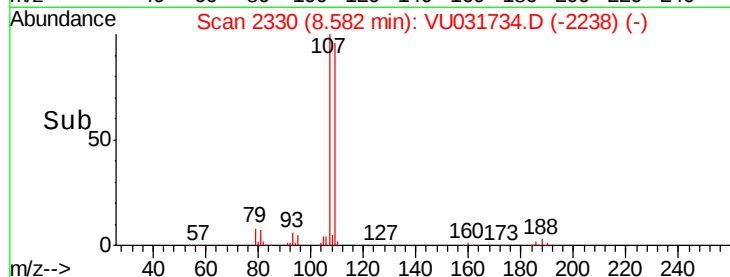
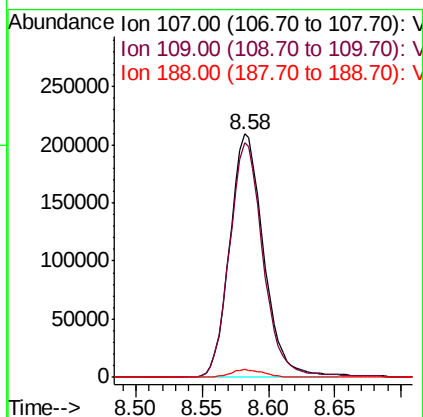
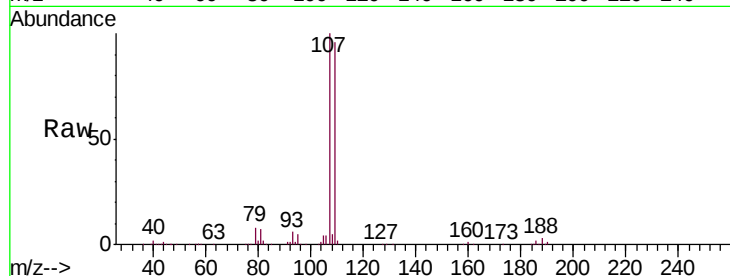




#50
1,2-Dibromoethane
Concen: 49.601 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU031734.D
Acq: 03 May 2019 09:01

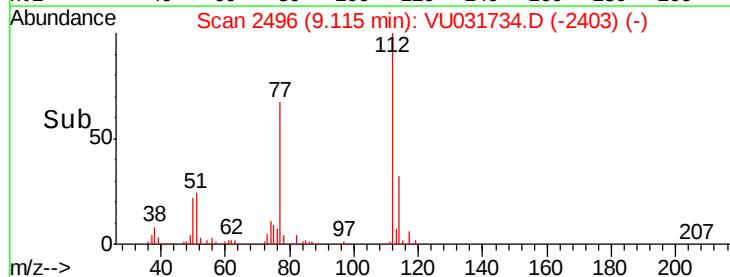
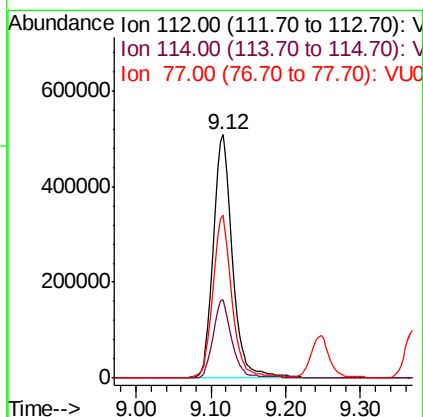
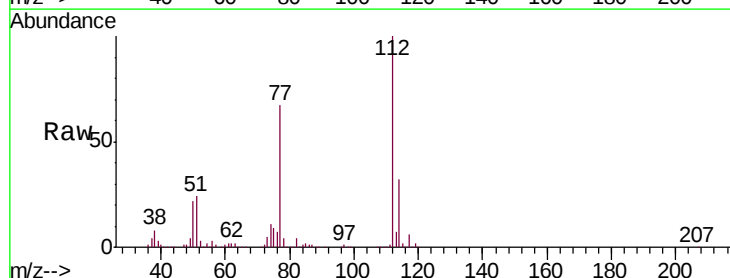
Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

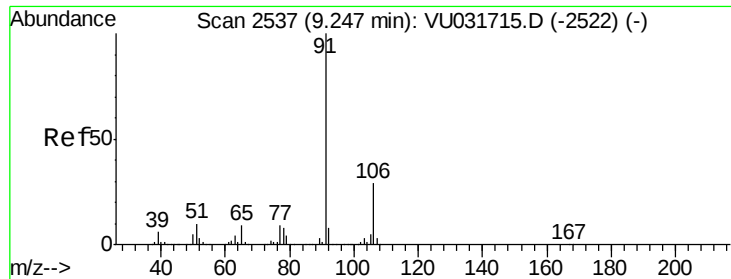
Tgt Ion:107 Resp: 372498
Ion Ratio Lower Upper
107 100
109 96.2 64.9 120.5
188 3.1 2.4 3.6



#51
Chlorobenzene
Concen: 50.983 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU031734.D
Acq: 03 May 2019 09:01

Tgt Ion:112 Resp: 911820
Ion Ratio Lower Upper
112 100
114 32.3 23.3 43.3
77 66.9 53.0 79.4





#52

Ethylbenzene

Concen: 53.336 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

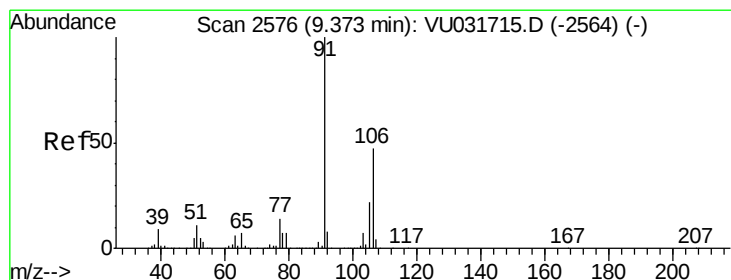
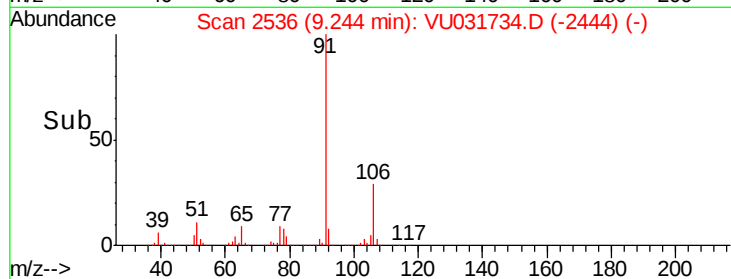
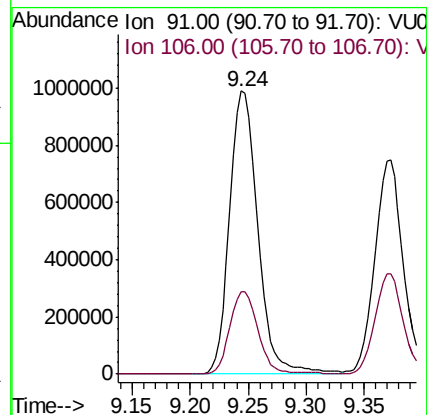
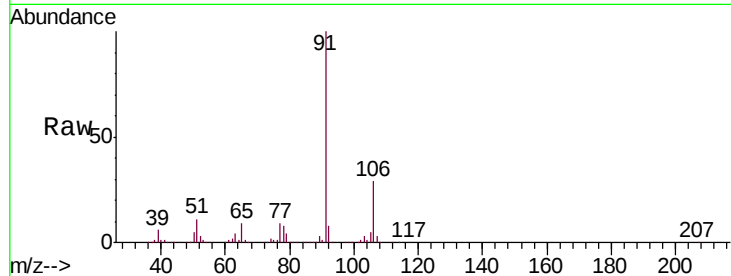
VSTD05033

Tgt Ion: 91 Resp: 1674436

Ion Ratio Lower Upper

91 100

106 28.9 20.4 37.8



#53

m,p-Xylene

Concen: 54.171 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031734.D

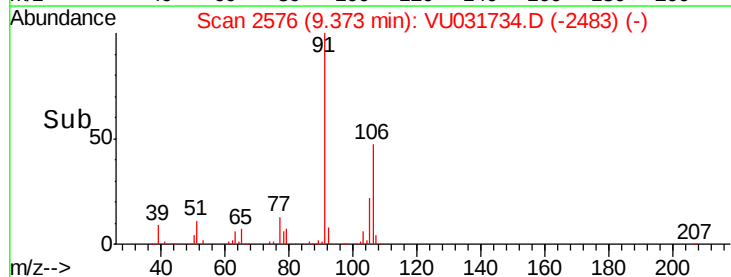
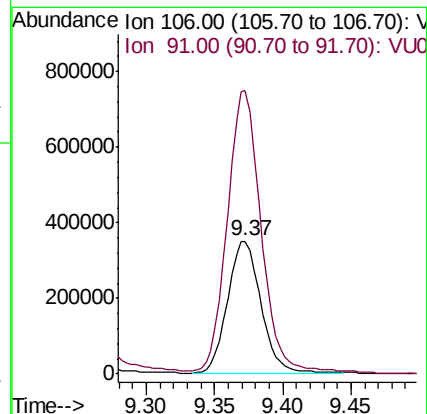
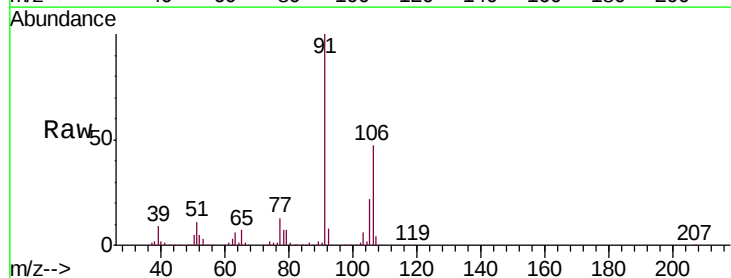
Acq: 03 May 2019 09:01

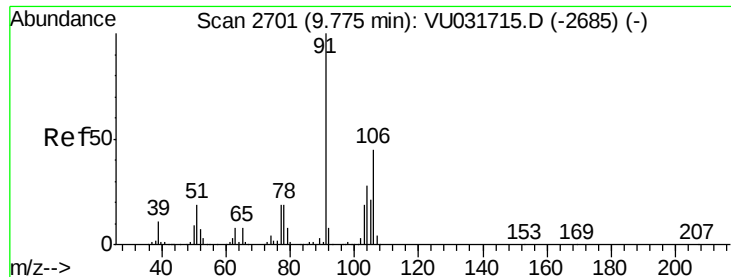
Tgt Ion: 106 Resp: 592535

Ion Ratio Lower Upper

106 100

91 213.1 152.2 282.6





#54

o-xylene

Concen: 55.729 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

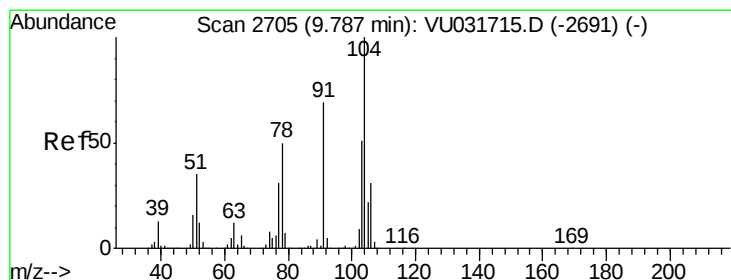
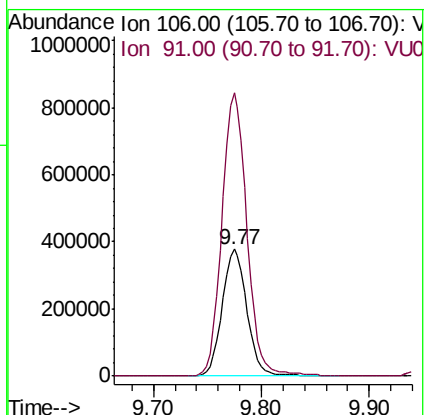
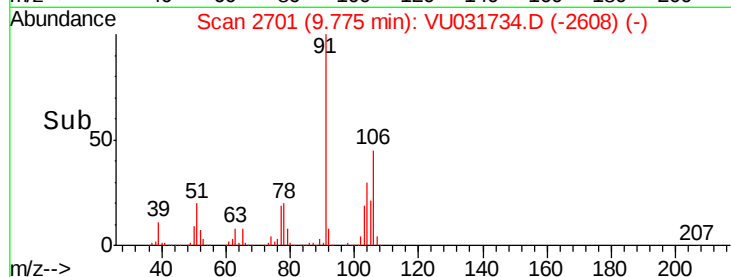
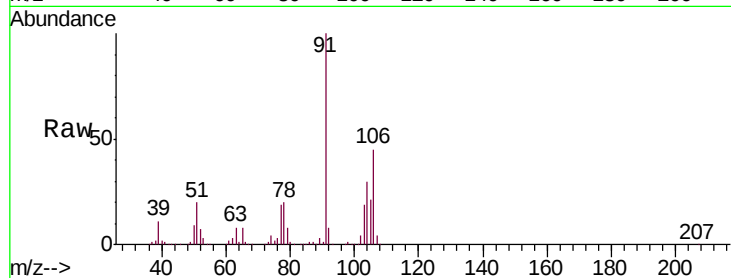
VSTD05033

Tgt Ion:106 Resp: 604335

Ion Ratio Lower Upper

106 100

91 223.1 163.2 303.2



#55

Styrene

Concen: 55.041 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU031734.D

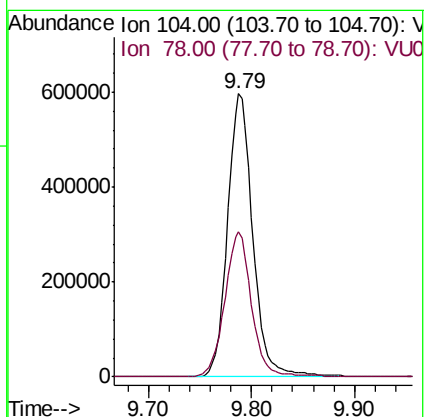
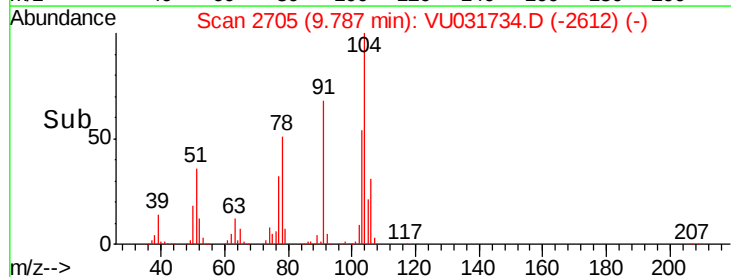
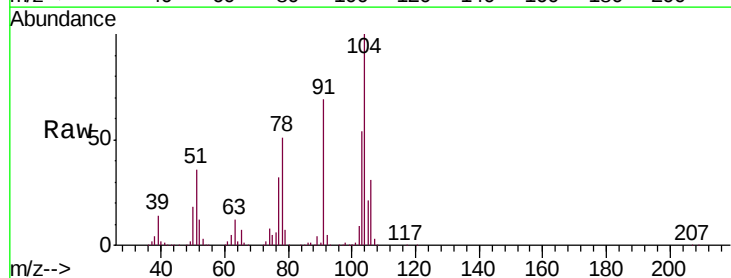
Acq: 03 May 2019 09:01

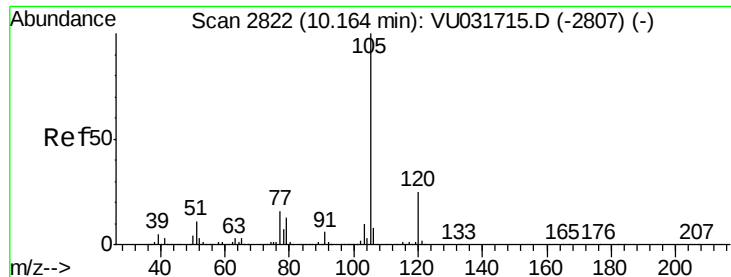
Tgt Ion:104 Resp: 1019745

Ion Ratio Lower Upper

104 100

78 51.3 35.4 65.7





#56

Isopropylbenzene

Concen: 55.151 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

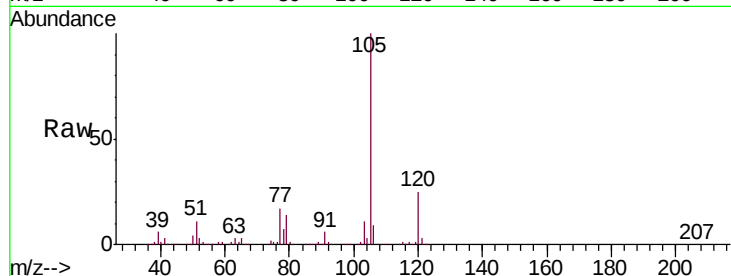
Tgt Ion:105 Resp: 1572667

Ion Ratio Lower Upper

105 100

120 24.7 20.1 30.1

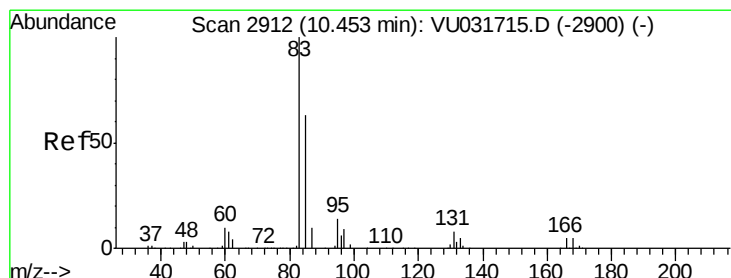
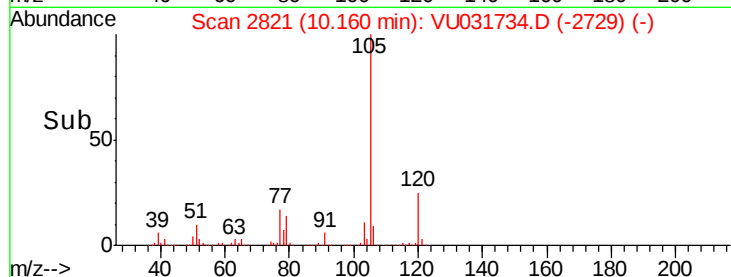
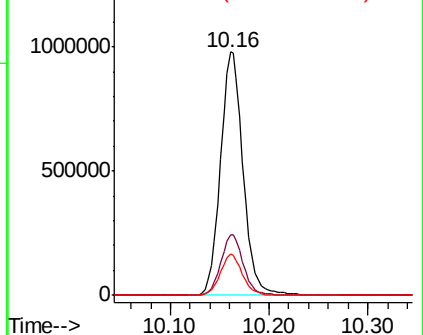
77 16.7 13.8 20.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.776 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

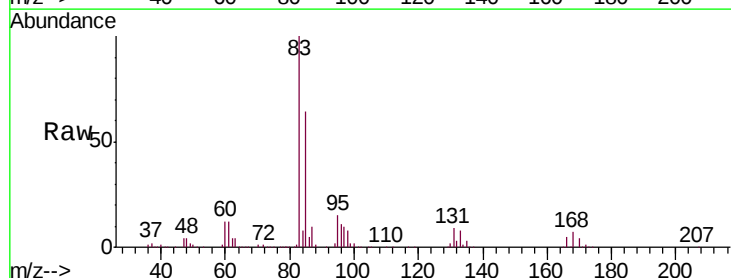
Tgt Ion: 83 Resp: 640685

Ion Ratio Lower Upper

83 100

85 64.3 46.0 85.4

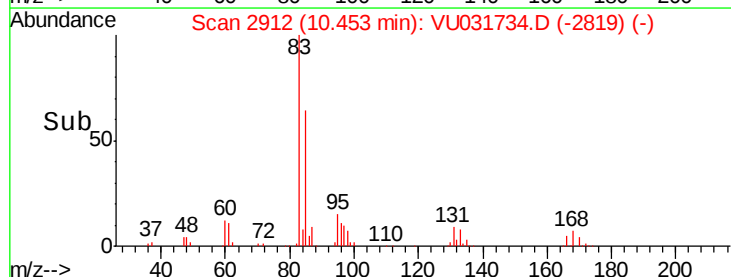
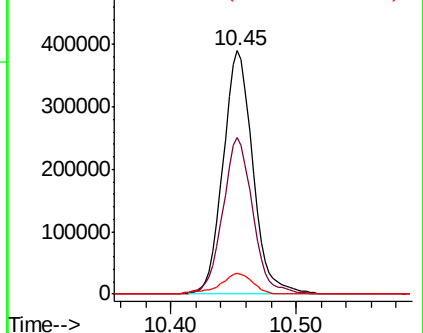
131 8.5 7.3 10.9

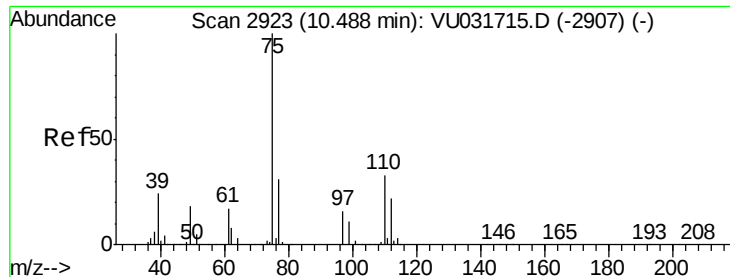


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

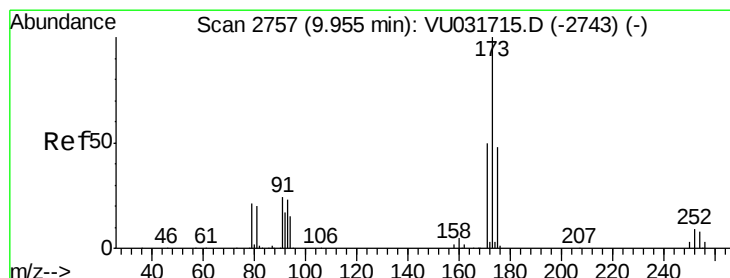
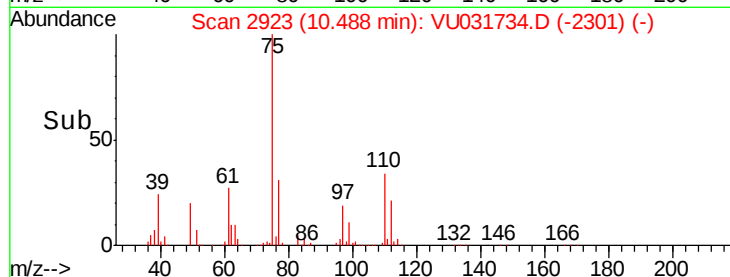
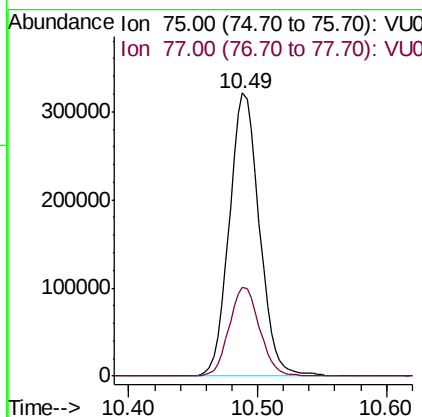
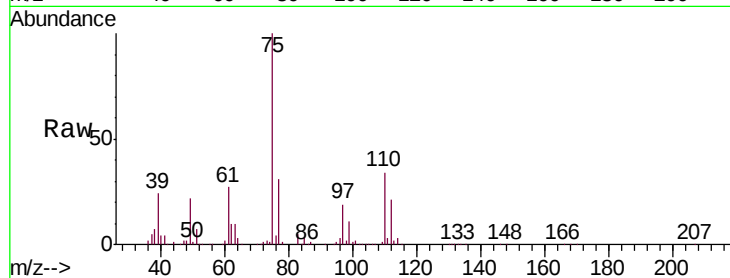




#59
 1,2,3-Trichloropropane
 Concen: 50.943 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU031734.D
 Acq: 03 May 2019 09:01

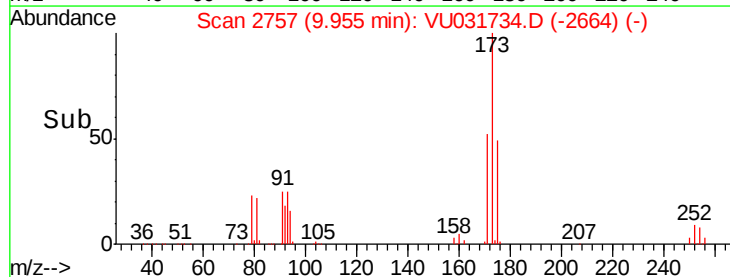
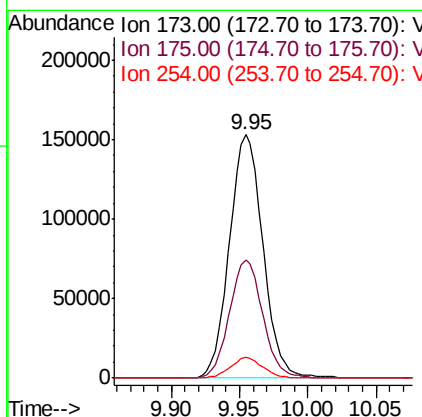
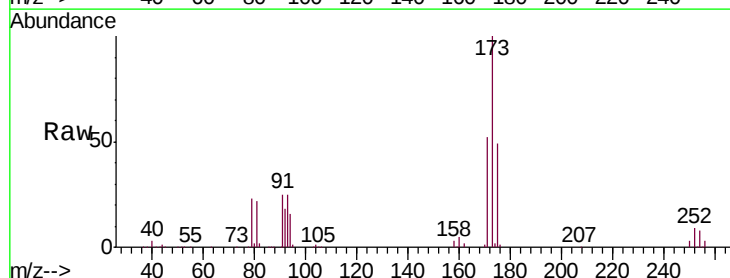
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

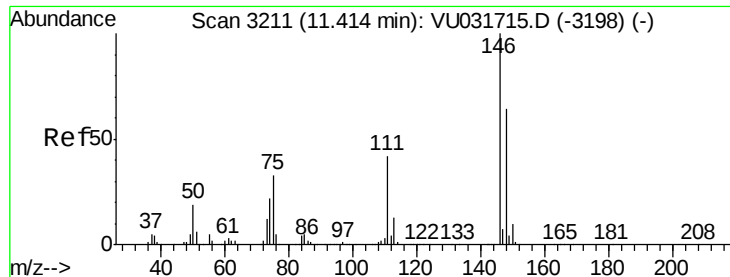
Tgt Ion: 75 Resp: 520971
 Ion Ratio Lower Upper
 75 100
 77 31.5 25.9 38.9



#61
 Bromoform
 Concen: 46.059 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031734.D
 Acq: 03 May 2019 09:01

Tgt Ion: 173 Resp: 261563
 Ion Ratio Lower Upper
 173 100
 175 48.1 38.3 57.5
 254 8.1 6.6 9.8





#62

1,3-Dichlorobenzene

Concen: 52.026 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

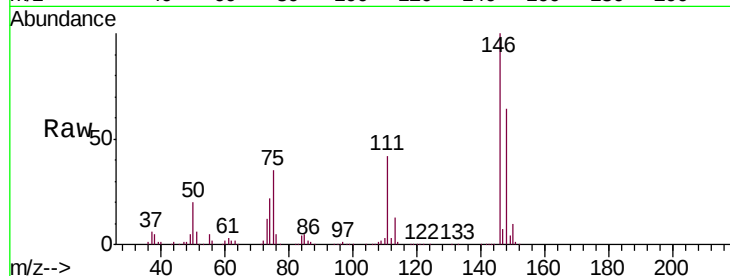
Tgt Ion:146 Resp: 659755

Ion Ratio Lower Upper

146 100

111 42.1 29.8 55.4

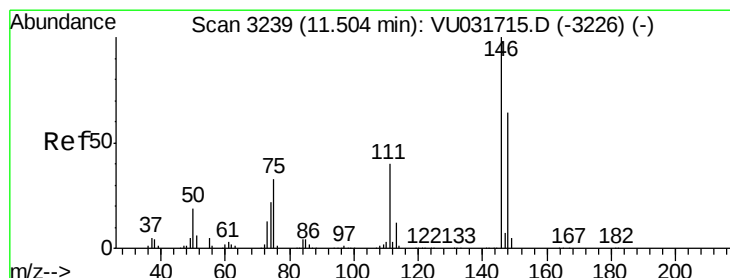
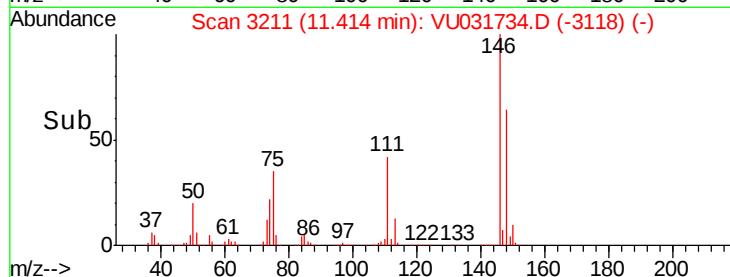
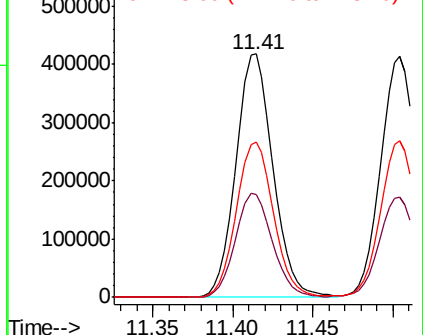
148 64.0 45.1 83.9



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: 50.065 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

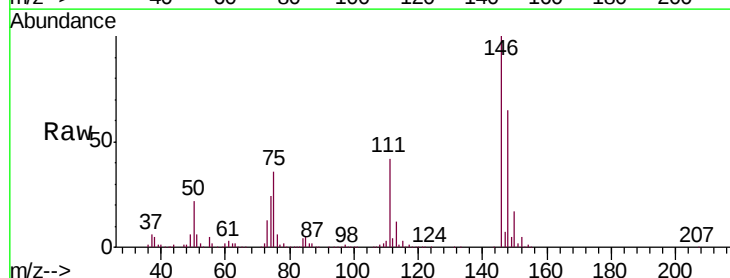
Tgt Ion:146 Resp: 657514

Ion Ratio Lower Upper

146 100

111 41.6 28.2 52.4

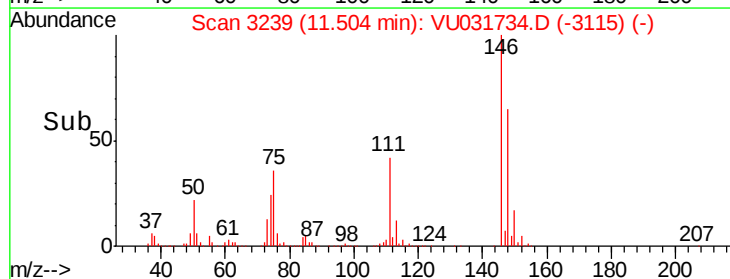
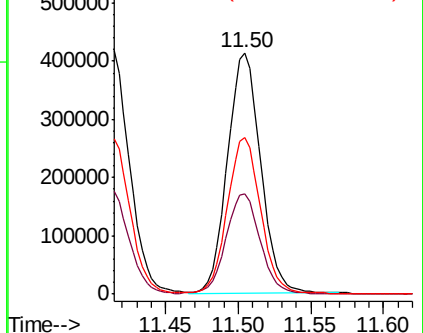
148 64.9 45.4 84.4

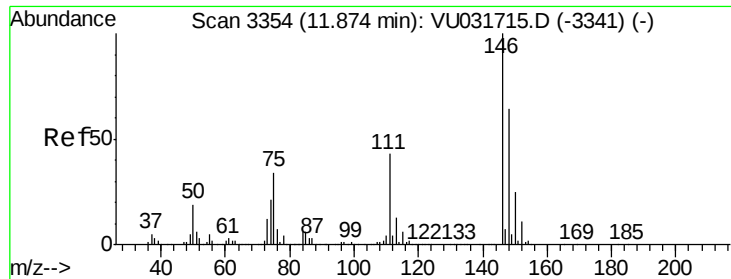


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

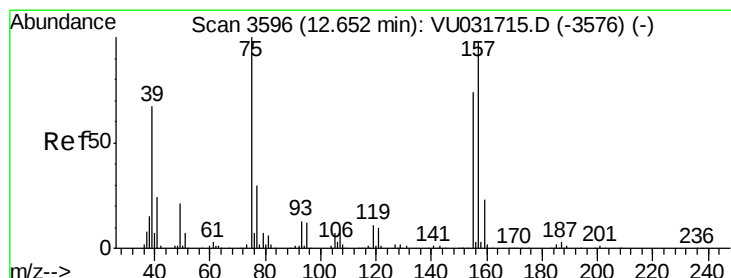
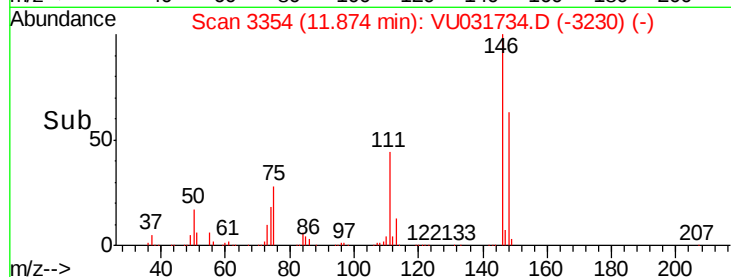
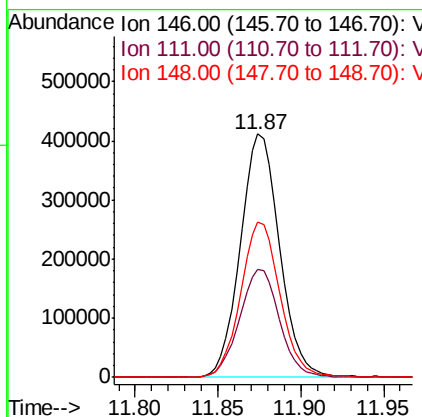
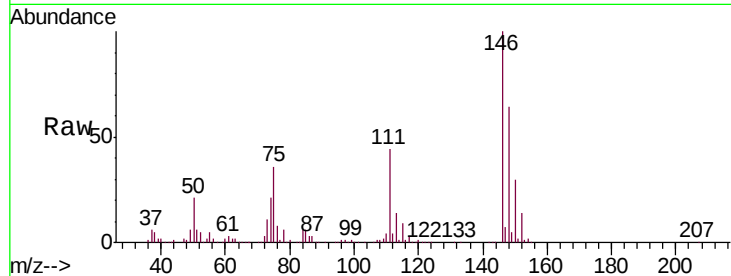




#65
 1,2-Dichlorobenzene
 Concen: 50.237 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031734.D
 Acq: 03 May 2019 09:01

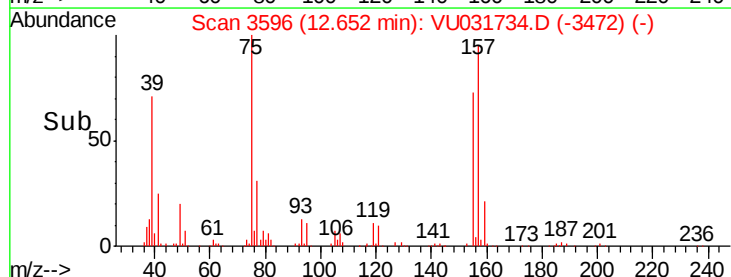
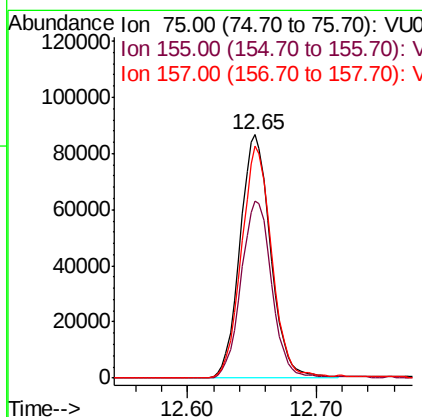
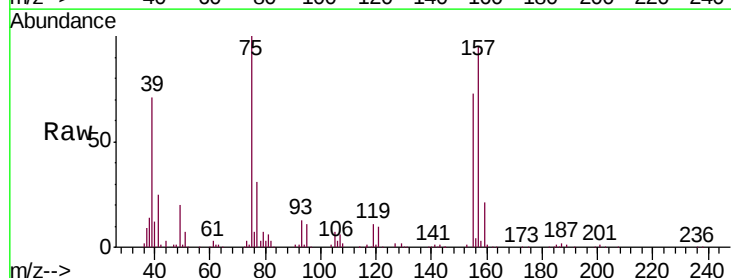
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05033

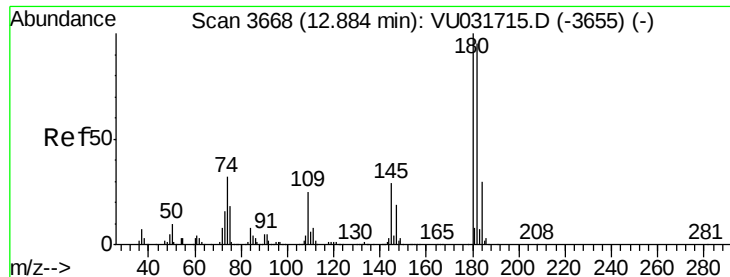
Tgt Ion: 146 Resp: 677072
 Ion Ratio Lower Upper
 146 100
 111 44.3 35.9 53.9
 148 63.7 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 45.938 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031734.D
 Acq: 03 May 2019 09:01

Tgt Ion: 75 Resp: 143693
 Ion Ratio Lower Upper
 75 100
 155 72.7 54.0 81.0
 157 95.2 69.1 103.7





#67

1,3,5-Trichlorobenzene

Concen: 50.613 ug/L

RT: 12.88 min Scan# 3668

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

Tgt Ion:180 Resp: 480725

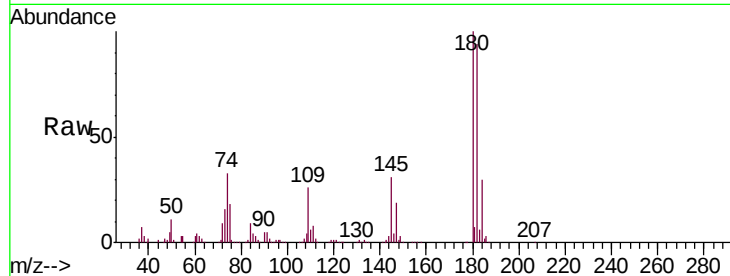
Ion Ratio Lower Upper

180 100

182 95.7 77.3 115.9

184 30.4 24.4 36.6

145 30.1 23.8 35.8

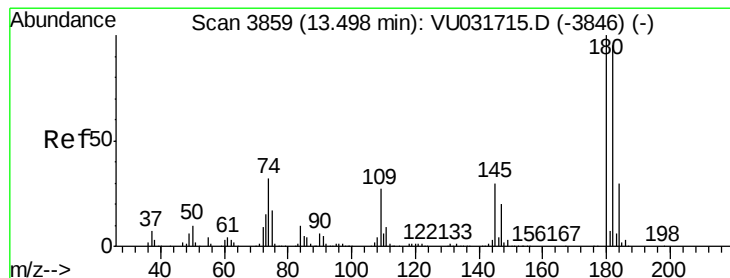
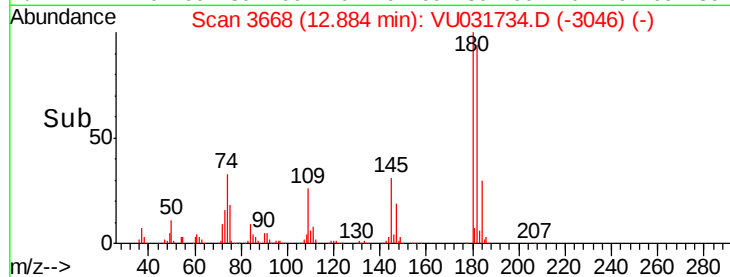
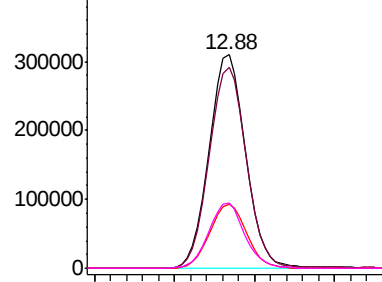


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68

1,2,4-trichlorobenzene

Concen: 54.628 ug/L

RT: 13.50 min Scan# 3859

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

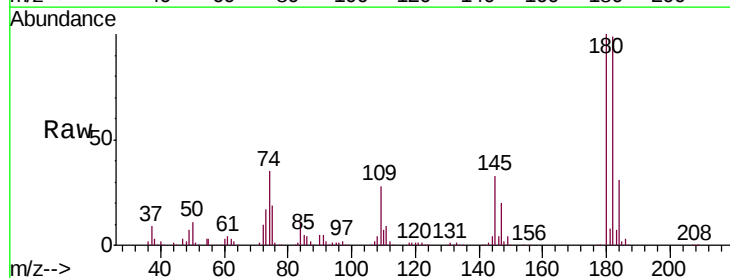
Tgt Ion:180 Resp: 410762

Ion Ratio Lower Upper

180 100

182 95.3 75.8 113.8

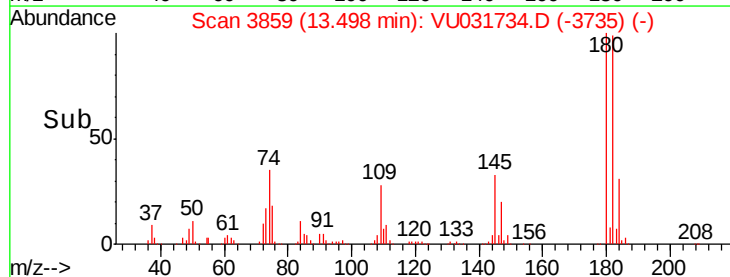
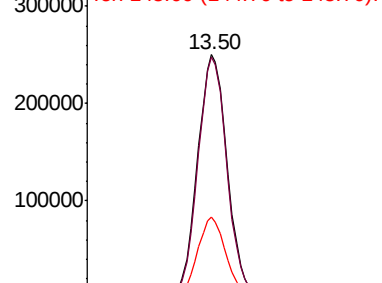
145 32.0 24.5 36.7

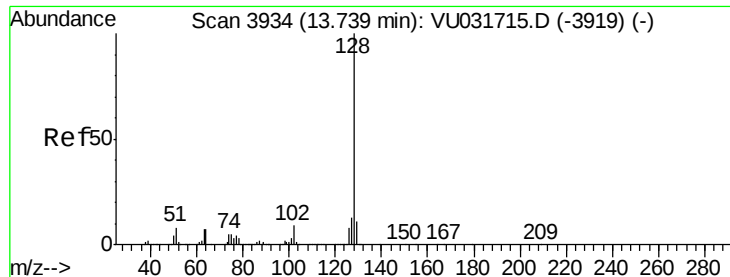


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 57.985 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

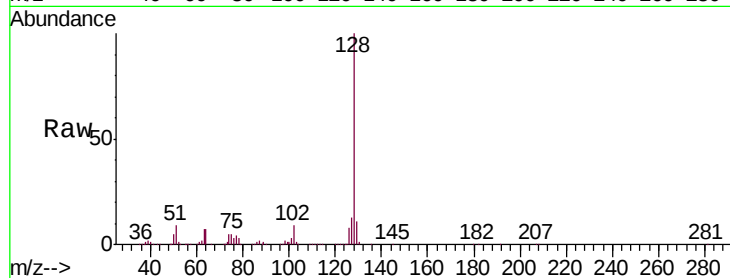
Tgt Ion:128 Resp: 1486570

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

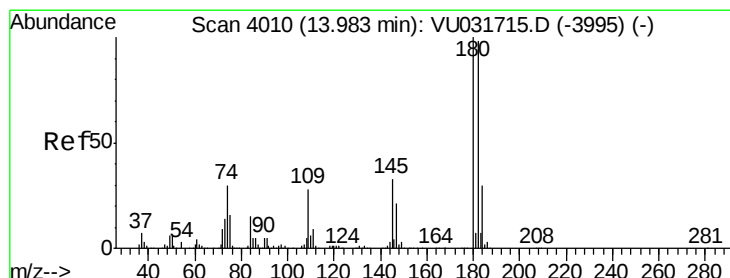
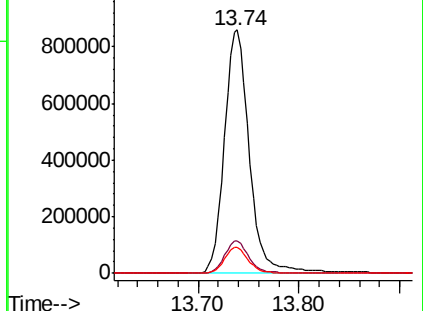
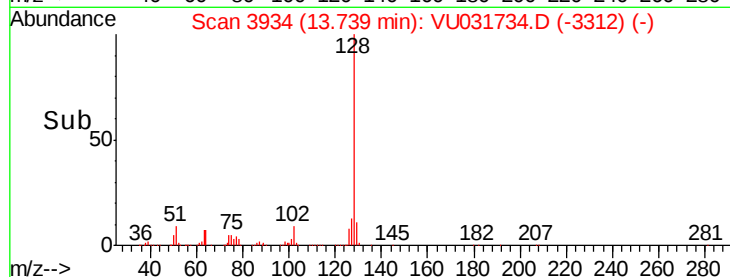
129 10.6 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 49.093 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031734.D

Acq: 03 May 2019 09:01

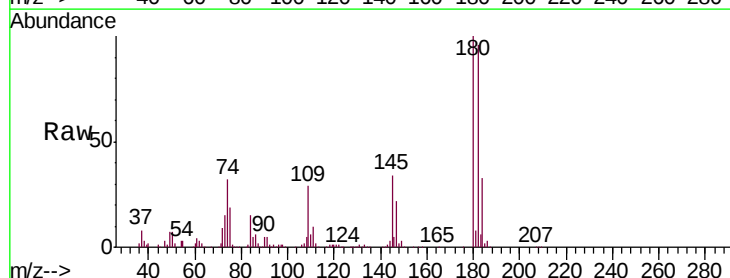
Tgt Ion:180 Resp: 420267

Ion Ratio Lower Upper

180 100

182 96.7 76.1 114.1

145 33.9 26.0 39.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

