

Data File : VU029059.D
Acq On : 07 Jan 2019 15:36
Operator : MD/SY
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

Quant Time: Jan 08 01:43:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jan 08 01:37:07 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	192063	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	185690	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	84992	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	75530	49.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	98.10%
7) Chloroethane-d5	1.67	69	60327	50.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.46%
11) 1,1-Dichloroethene-d2	2.27	63	124748	48.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.36%
21) 2-Butanone-d5	4.18	46	114023	105.70	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.70%
24) Chloroform-d	4.65	84	127458	52.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.28%
26) 1,2-Dichloroethane-d4	5.30	65	78469	52.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.16%
32) Benzene-d6	5.34	84	271629	51.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.56%
36) 1,2-Dichloropropane-d6	6.33	67	91856	51.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.08%
41) Toluene-d8	7.56	98	245604	51.66	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.32%
43) trans-1,3-Dichloropropene-	7.85	79	40674	50.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.86%
47) 2-Hexanone-d5	8.31	63	81748	96.58	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.58%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	129111	52.22	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.44%
64) 1,2-Dichlorobenzene-d4	11.86	152	90906	52.88	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.76%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	72113	46.046	ug/L 100
3) Chloromethane	1.33	50	87048	40.876	ug/L 99
5) Vinyl chloride	1.40	62	87228	46.365	ug/L 100
6) Bromomethane	1.61	94	38590	48.155	ug/L 97
8) Chloroethane	1.69	64	49274	45.886	ug/L 97
9) Trichlorofluoromethane	1.88	101	93572	48.638	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	61116	49.100	ug/L 100
12) 1,1-Dichloroethene	2.28	96	56645	45.998	ug/L 89
13) Acetone	2.32	43	105505	95.967	ug/L 99
14) Carbon disulfide	2.47	76	183094	42.576	ug/L 100
15) Methyl Acetate	2.61	43	81060	47.294	ug/L 100
16) Methylene chloride	2.70	84	73825	48.612	ug/L 96
17) trans-1,2-Dichloroethene	2.98	96	63676	47.727	ug/L 99
18) Methyl tert-butyl Ether	3.00	73	203811	49.679	ug/L 99
19) 1,1-Dichloroethane	3.44	63	125572	48.418	ug/L 99
20) cis-1,2-Dichloroethene	4.22	96	73723	48.780	ug/L 93
22) 2-Butanone	4.26	43	130302	97.331	ug/L 98

Data File : VU029059.D
Acq On : 07 Jan 2019 15:36
Operator : MD/SY
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

Quant Time: Jan 08 01:43:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jan 08 01:37:07 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	35404	49.140	ug/L	94
25) Chloroform	4.67	83	122604	49.668	ug/L	100
27) 1,2-Dichloroethane	5.40	62	90197	49.166	ug/L	100
29) Cyclohexane	4.99	56	112586	45.555	ug/L	97
30) 1,1,1-Trichloroethane	4.91	97	97686	49.703	ug/L	99
31) Carbon tetrachloride	5.13	117	79547	50.191	ug/L	100
33) Benzene	5.39	78	287419	48.619	ug/L	100
34) Trichloroethene	6.18	95	67287	47.145	ug/L	95
35) Methylcyclohexane	6.41	83	114544	48.187	ug/L	99
37) 1,2-Dichloropropane	6.43	63	81141	49.101	ug/L	100
38) Bromodichloromethane	6.76	83	91861	50.197	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	116704	49.536	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	220832	99.421	ug/L	100
42) Toluene	7.64	91	298766	49.856	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	105323	50.152	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	71263	50.436	ug/L	99
46) Tetrachloroethene	8.22	164	54452	49.538	ug/L	98
48) 2-Hexanone	8.36	43	179562	98.496	ug/L	99
49) Dibromochloromethane	8.48	129	72451	51.480	ug/L	100
50) 1,2-Dibromoethane	8.58	107	74146	50.437	ug/L	100
51) Chlorobenzene	9.12	112	191161	50.615	ug/L	99
52) Ethylbenzene	9.25	91	316456	49.146	ug/L	98
53) m,p-Xylene	9.37	106	118848	49.913	ug/L	96
54) o-xylene	9.78	106	119469	50.061	ug/L	98
55) Styrene	9.79	104	205263	50.785	ug/L	99
56) Isopropylbenzene	10.16	105	301704	49.835	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	129436	50.427	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	97417	49.399	ug/L	99
61) Bromoform	9.95	173	56516	53.641	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	136291	50.480	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	142884	51.367	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	149251	52.993	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	25181	51.833	ug/L	98
67) 1,3,5-Trichlorobenzene	12.89	180	99371	49.919	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	85004	50.993	ug/L	99
69) Naphthalene	13.74	128	296810	51.284	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	92099	51.237	ug/L	100

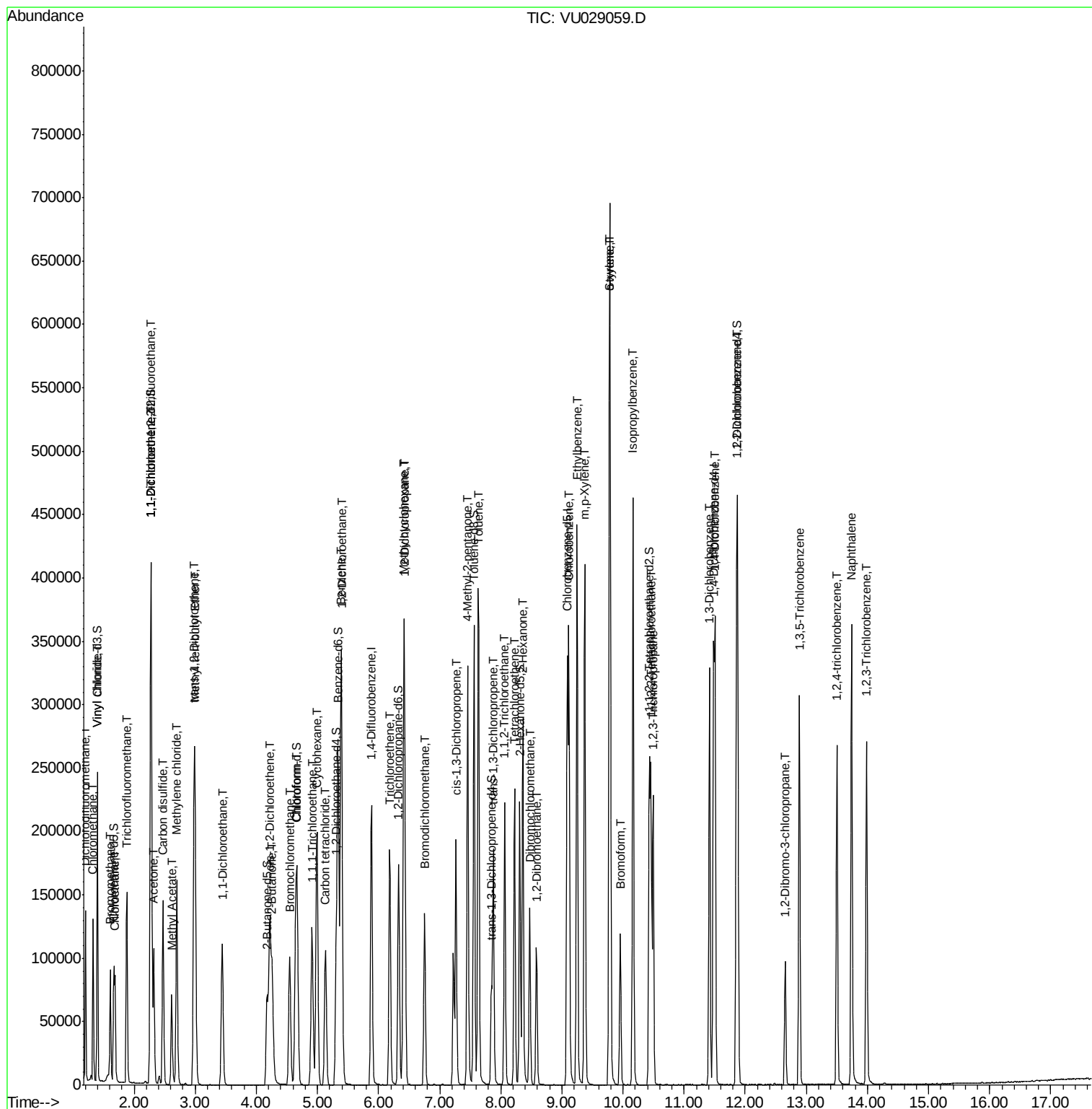
(#) = qualifier out of range (m) = manual integration (+) = signals summed

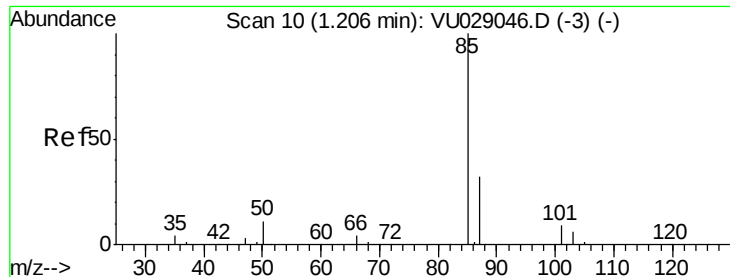
Data File : VU029059.D

```
Acq On       : 07 Jan 2019   15:36
Operator    : MD/SY
Sample      : VSTDCCC050
Misc        : 5.0mL/MSVOA_U/WATER
ALS Vial     : 15   Sample Multiplier: 1
```

Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

Quant Time: Jan 08 01:43:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jan 08 01:37:07 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 46.046 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

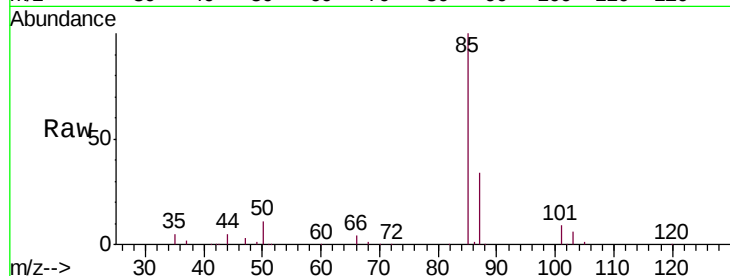
VSTD05051

Tgt Ion: 85 Resp: 72113

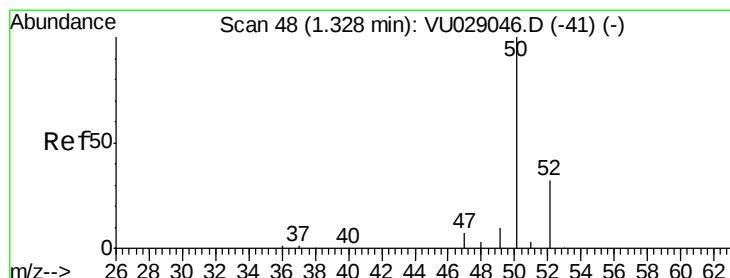
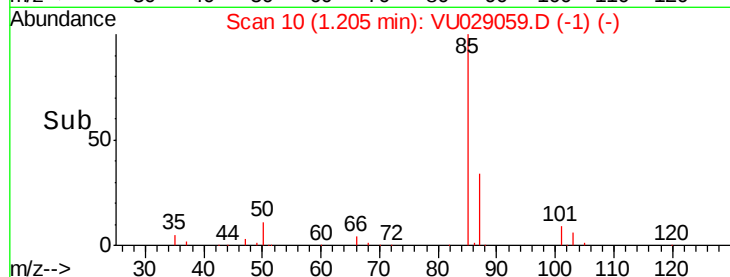
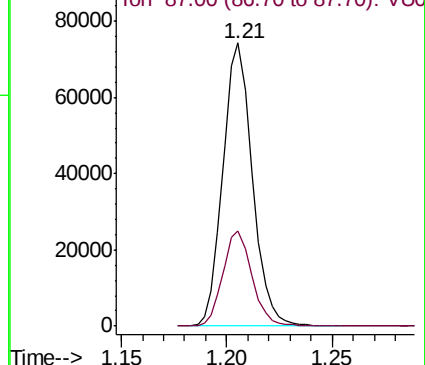
Ion Ratio Lower Upper

85 100

87 33.1 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU029046.D (-3) (-)



#3

Chloromethane

Concen: 40.876 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU029059.D

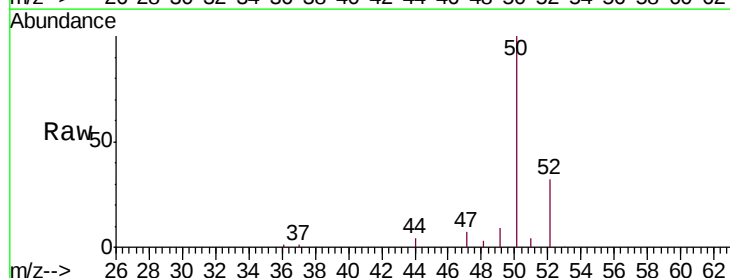
Acq: 07 Jan 2019 15:36

Tgt Ion: 50 Resp: 87048

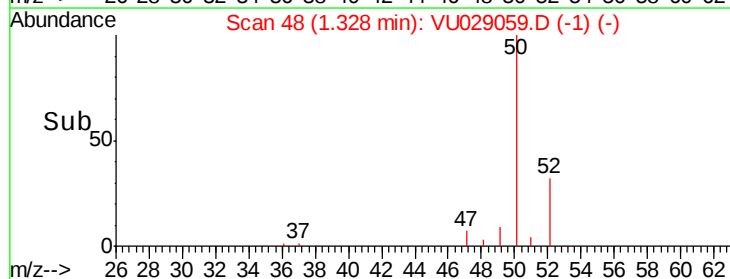
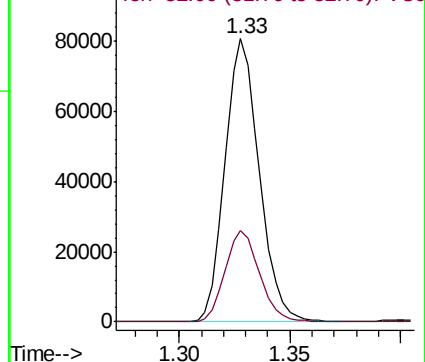
Ion Ratio Lower Upper

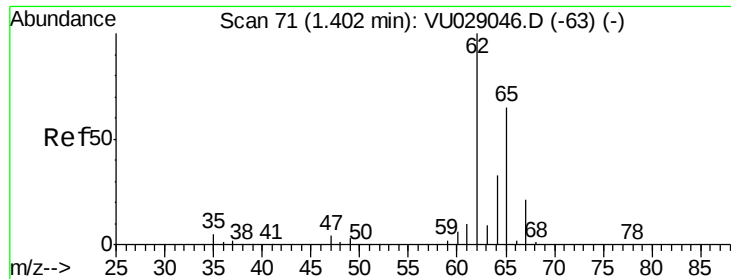
50 100

52 32.3 22.3 41.3



Abundance Ion 50.00 (49.70 to 50.70): VU029046.D (-41) (-)





#5

Vinyl chloride

Concen: 46.365 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

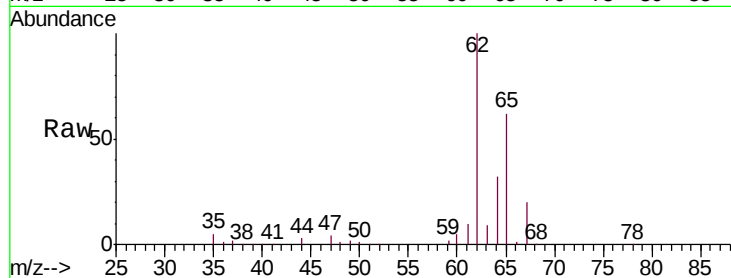
VSTD05051

Tgt Ion: 62 Resp: 87228

Ion Ratio Lower Upper

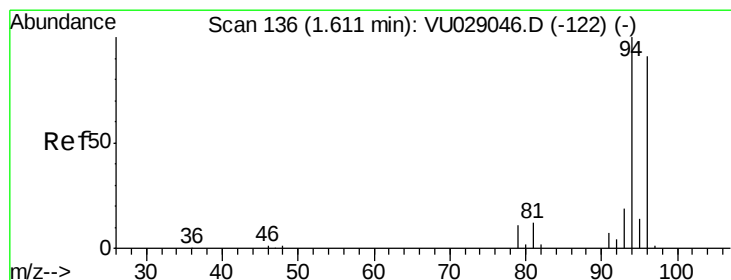
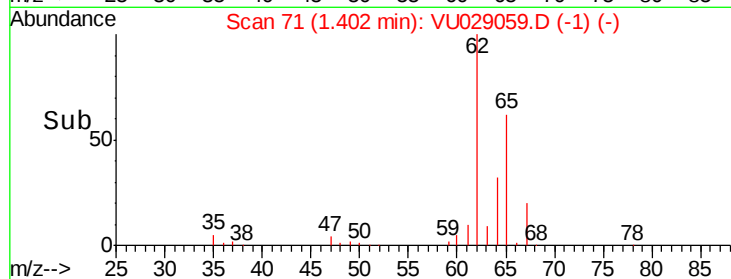
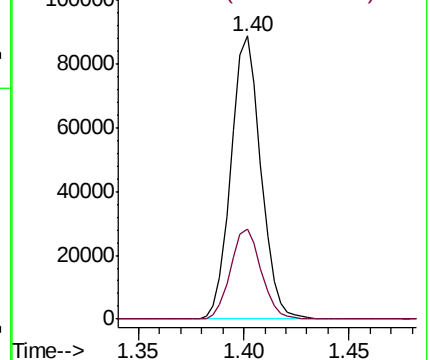
62 100

64 32.0 22.3 41.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 48.155 ug/L

RT: 1.61 min Scan# 136

Delta R.T. -0.00 min

Lab File: VU029059.D

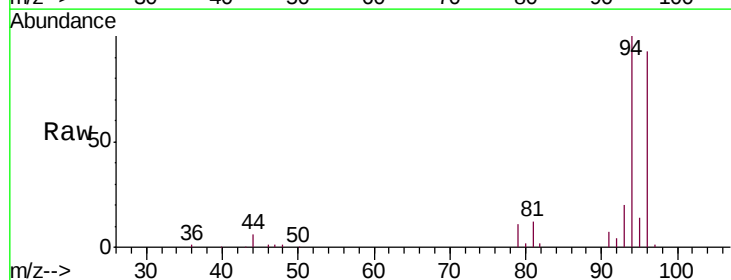
Acq: 07 Jan 2019 15:36

Tgt Ion: 94 Resp: 38590

Ion Ratio Lower Upper

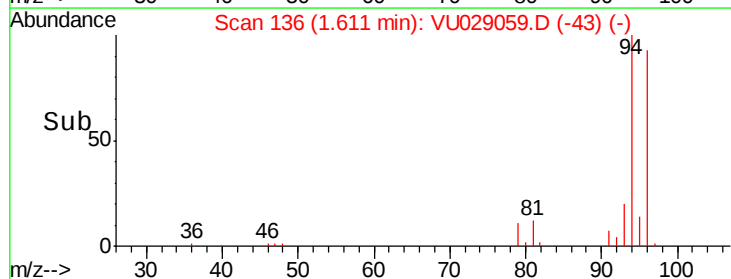
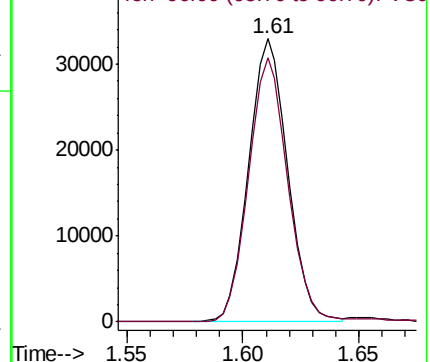
94 100

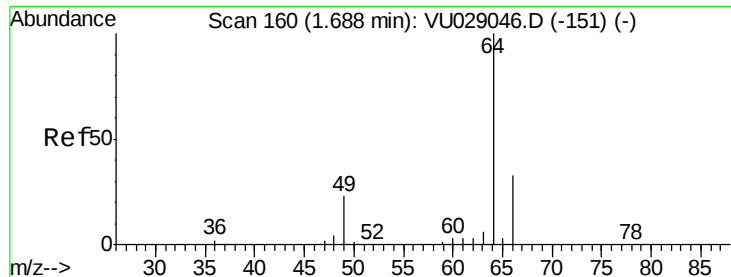
96 93.3 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 45.886 ug/L

RT: 1.69 min Scan# 160

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

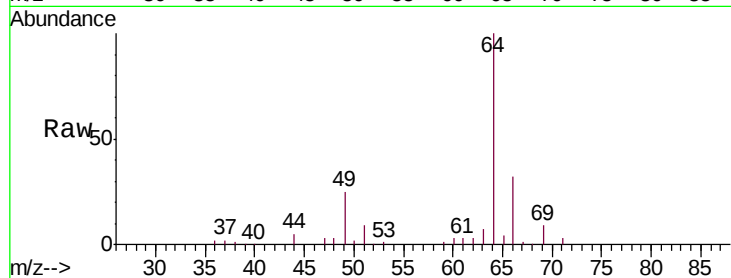
VSTD05051

Tgt Ion: 64 Resp: 49274

Ion Ratio Lower Upper

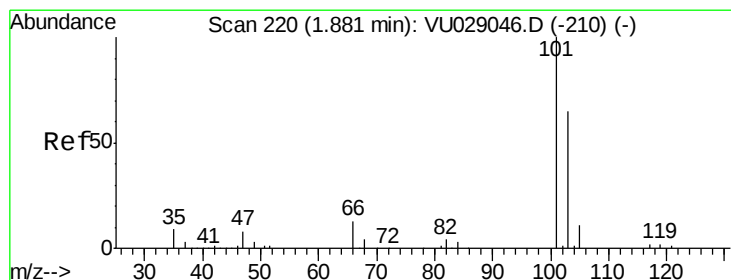
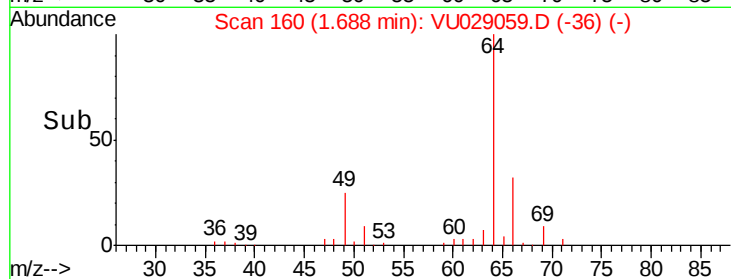
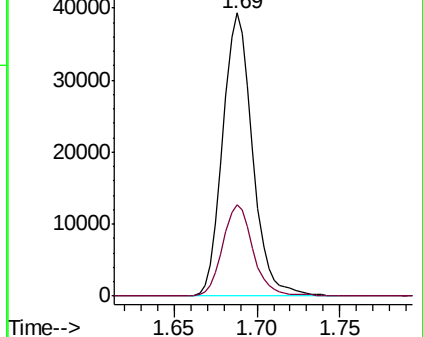
64 100

66 32.4 21.5 39.9



Abundance Ion 64.00 (63.70 to 64.70): VU029046.D (-151) (-)

Ion 66.00 (65.70 to 66.70): VU029046.D (-151) (-)



#9

Trichlorofluoromethane

Concen: 48.638 ug/L

RT: 1.88 min Scan# 220

Delta R.T. -0.00 min

Lab File: VU029059.D

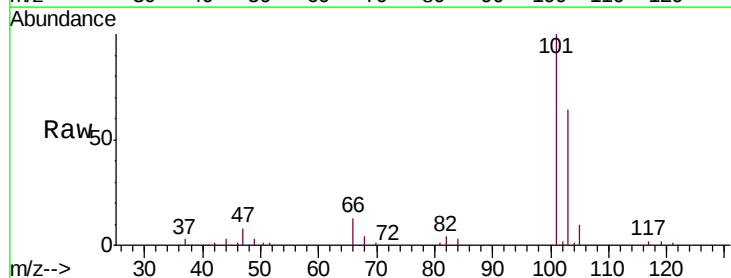
Acq: 07 Jan 2019 15:36

Tgt Ion: 101 Resp: 93572

Ion Ratio Lower Upper

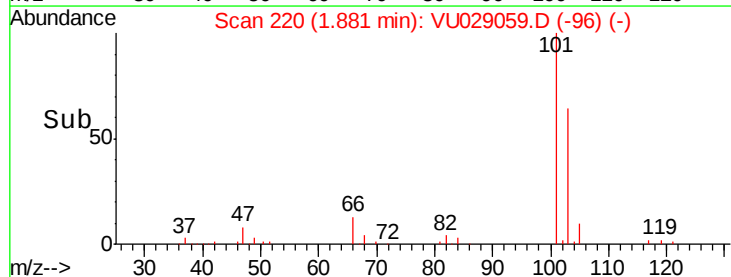
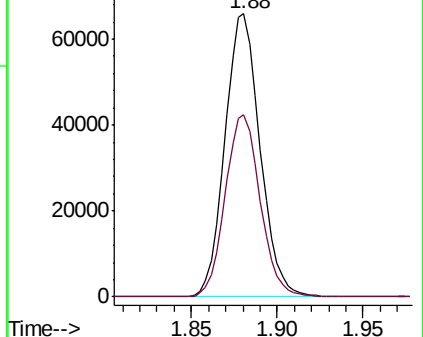
101 100

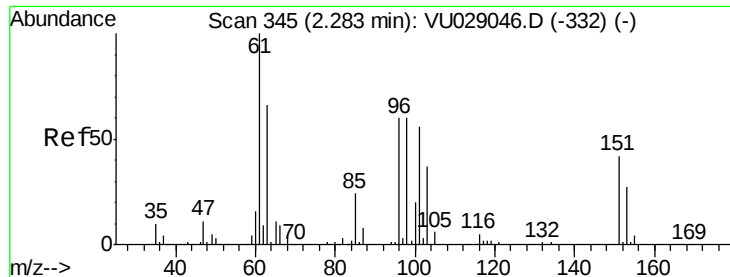
103 64.1 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU029046.D (-210) (-)

Ion 103.00 (102.70 to 103.70): VU029046.D (-210) (-)





#10

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

Concen: 49.100 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

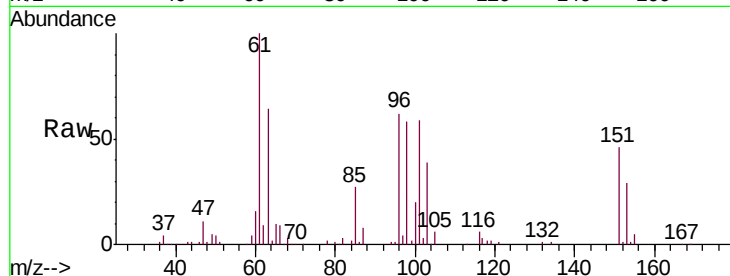
Tgt Ion: 101 Resp: 61116

Ion Ratio Lower Upper

101 100

85 42.2 33.8 50.6

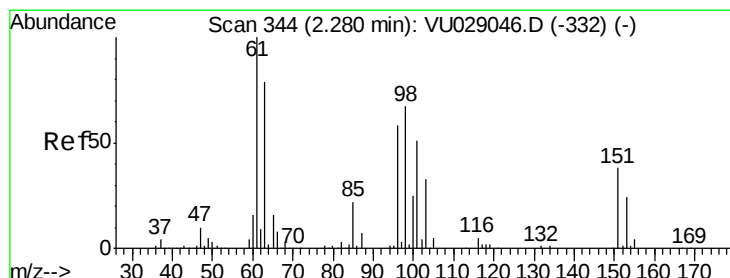
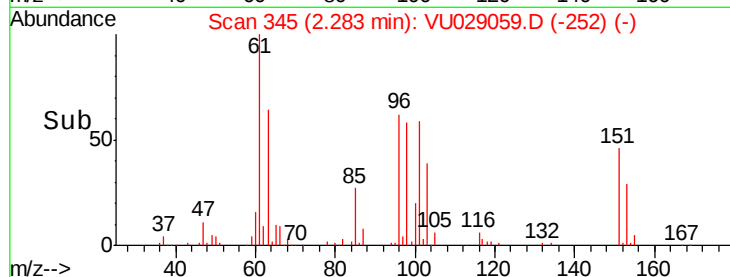
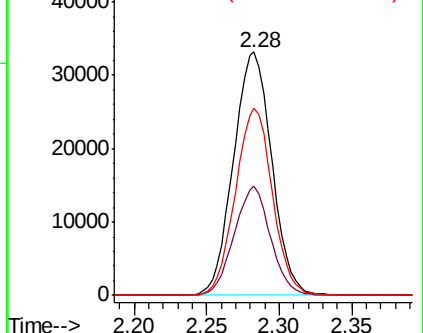
151 74.2 59.4 89.0



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: 45.998 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

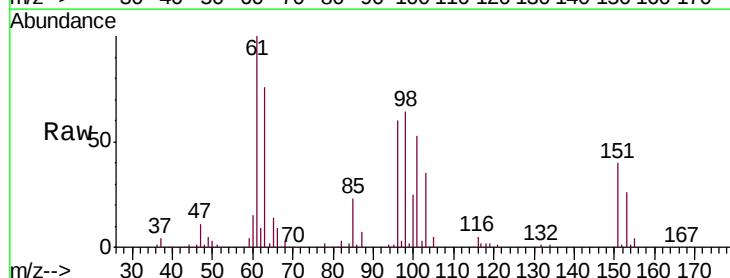
Tgt Ion: 96 Resp: 56645

Ion Ratio Lower Upper

96 100

61 166.7 119.3 221.5

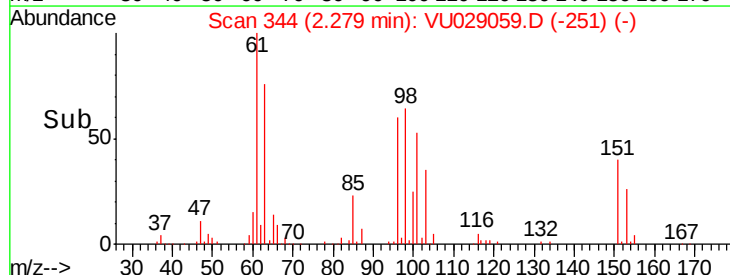
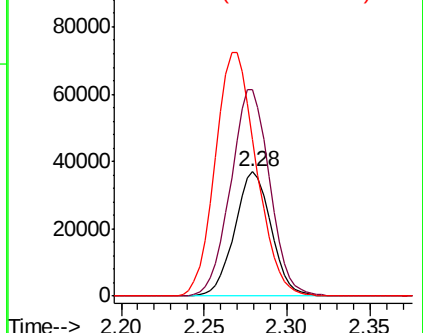
63 126.4 107.4 199.6

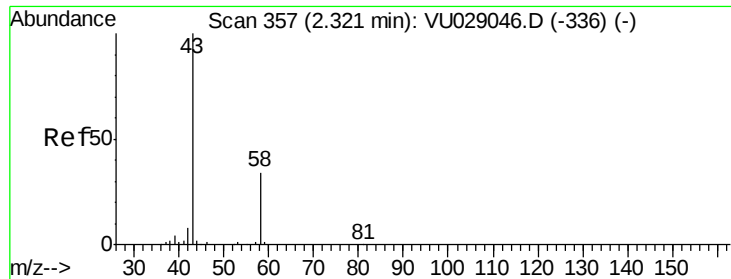


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 95.967 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

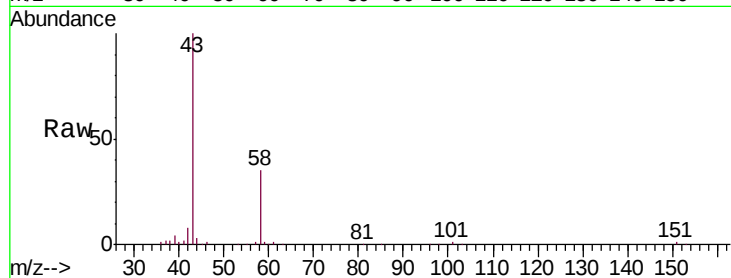
VSTD05051

Tgt Ion: 43 Resp: 105505

Ion Ratio Lower Upper

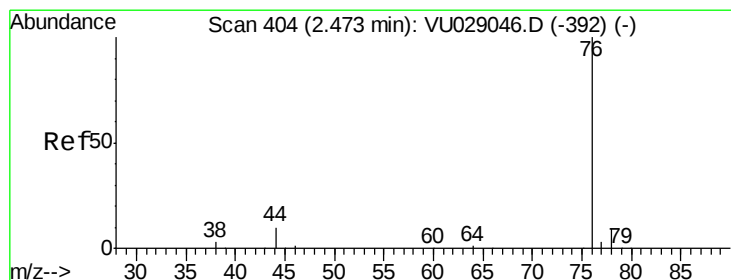
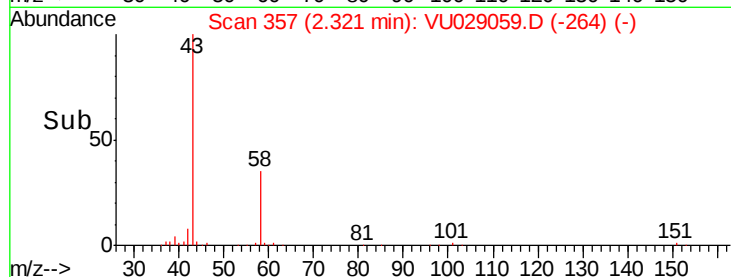
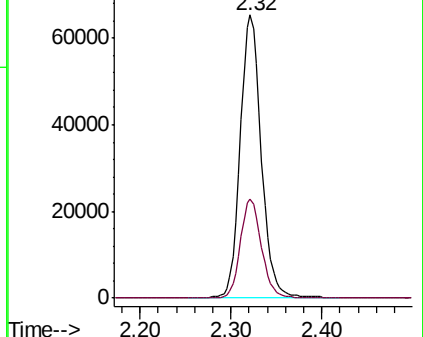
43 100

58 34.4 0.0 70.2



Abundance Ion 43.00 (42.70 to 43.70): VU029046.D (-336) (-)

Ion 58.00 (57.70 to 58.70): VU029046.D (-336) (-)



#14

Carbon disulfide

Concen: 42.576 ug/L

RT: 2.47 min Scan# 404

Delta R.T. -0.00 min

Lab File: VU029059.D

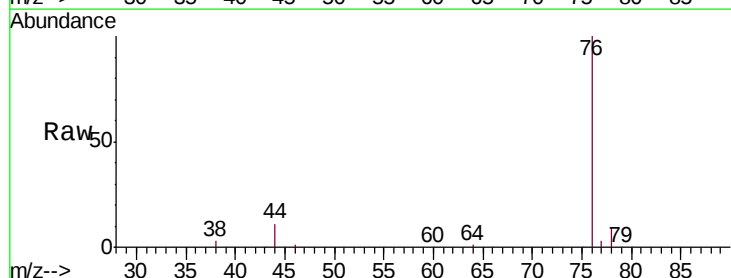
Acq: 07 Jan 2019 15:36

Tgt Ion: 76 Resp: 183094

Ion Ratio Lower Upper

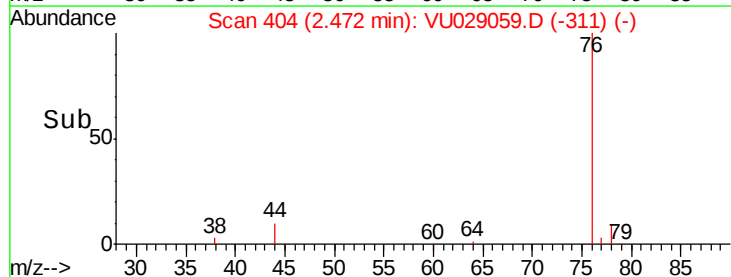
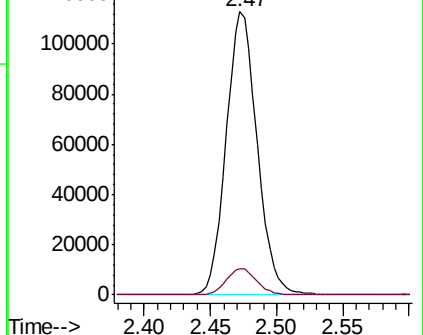
76 100

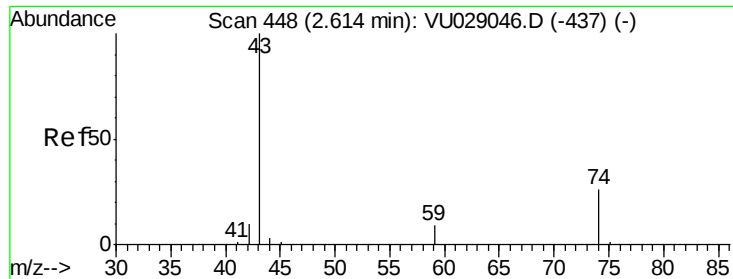
78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU029046.D (-392) (-)

Ion 78.00 (77.70 to 78.70): VU029046.D (-392) (-)

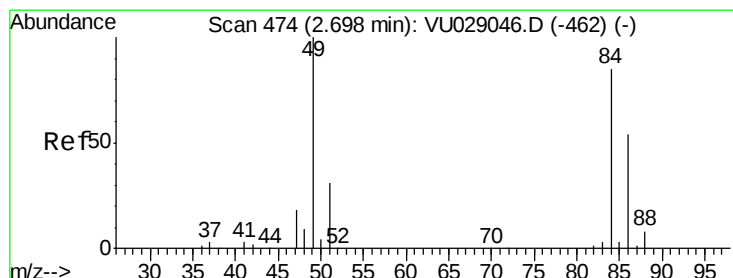
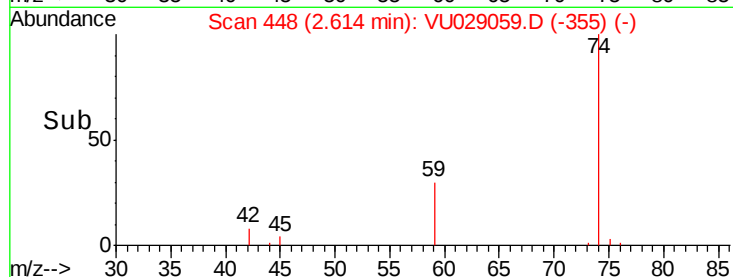
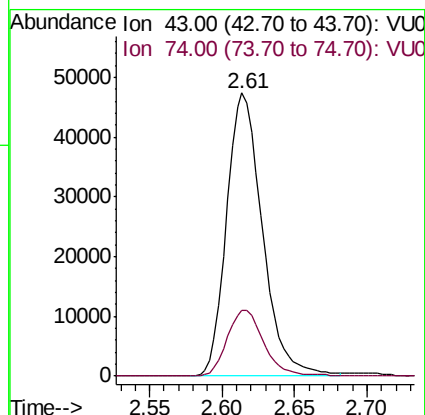
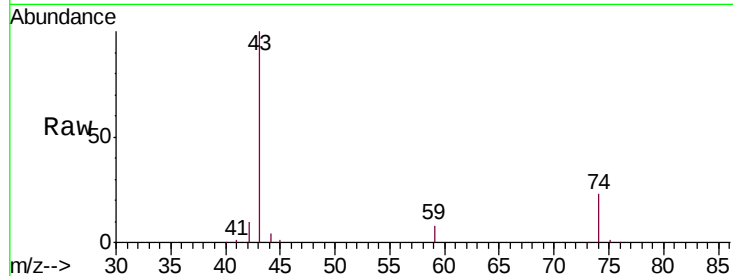




#15
Methyl Acetate
Concen: 47.294 ug/L
RT: 2.61 min Scan# 448
Delta R.T. -0.00 min
Lab File: VU029059.D
Acq: 07 Jan 2019 15:36

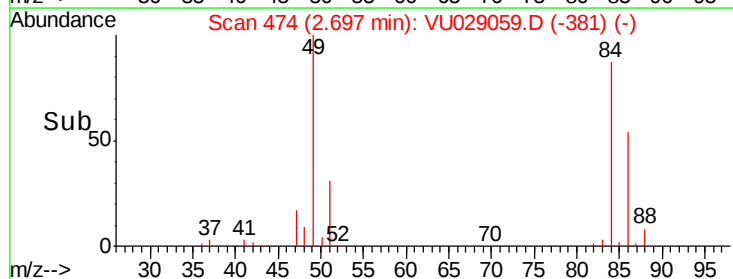
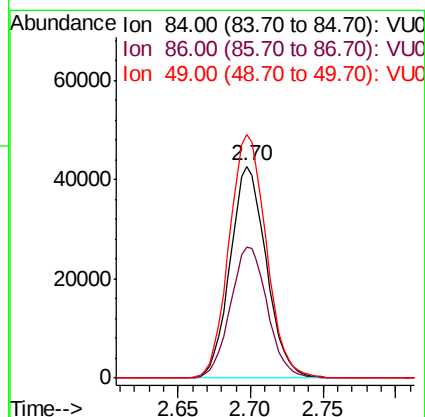
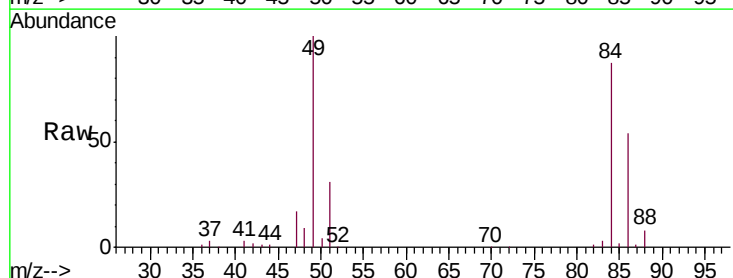
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

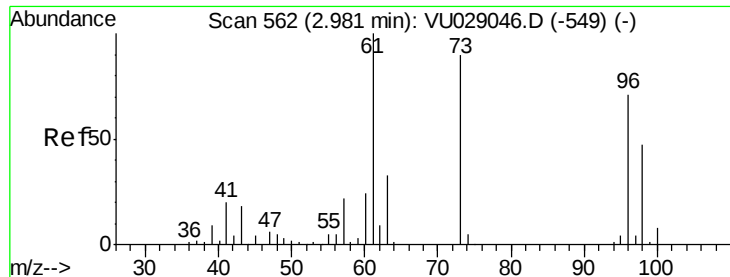
Tgt Ion: 43 Resp: 81060
Ion Ratio Lower Upper
43 100
74 23.8 19.0 28.4



#16
Methylene chloride
Concen: 48.612 ug/L
RT: 2.70 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU029059.D
Acq: 07 Jan 2019 15:36

Tgt Ion: 84 Resp: 73825
Ion Ratio Lower Upper
84 100
86 62.1 44.9 83.3
49 115.0 83.9 155.7





#17

trans-1,2-Dichloroethene

Concen: 47.727 ug/L

RT: 2.98 min Scan# 561

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

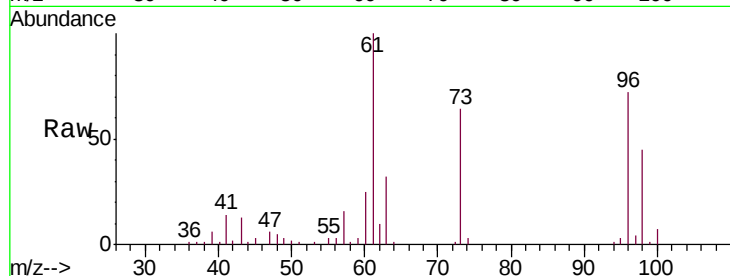
Tgt Ion: 96 Resp: 63676

Ion Ratio Lower Upper

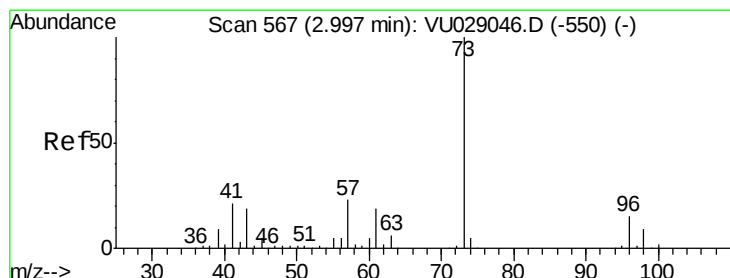
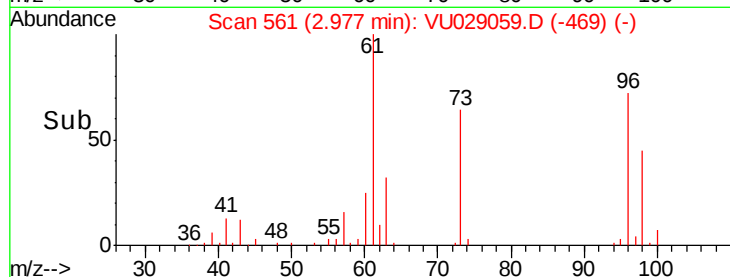
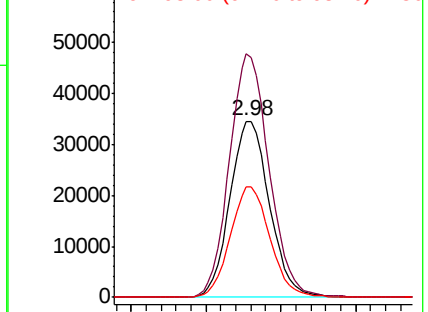
96 100

61 138.2 97.9 181.7

98 62.8 44.1 81.9



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 49.679 ug/L

RT: 3.00 min Scan# 567

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

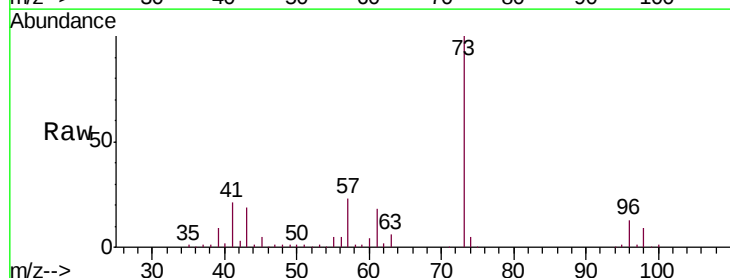
Tgt Ion: 73 Resp: 203811

Ion Ratio Lower Upper

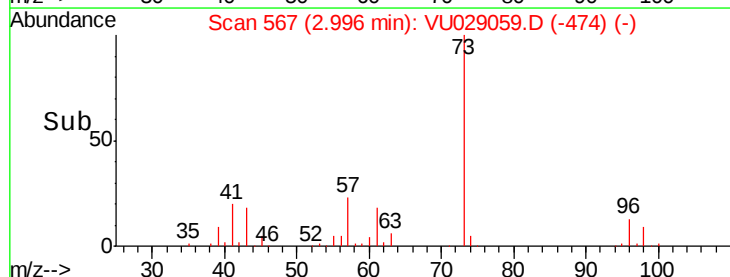
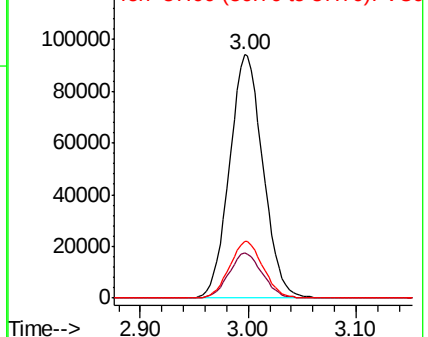
73 100

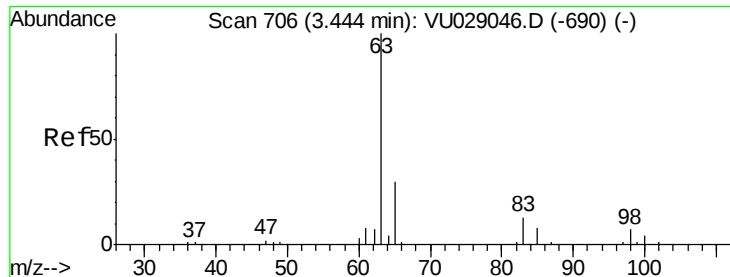
43 18.5 15.3 22.9

57 23.3 19.0 28.4



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

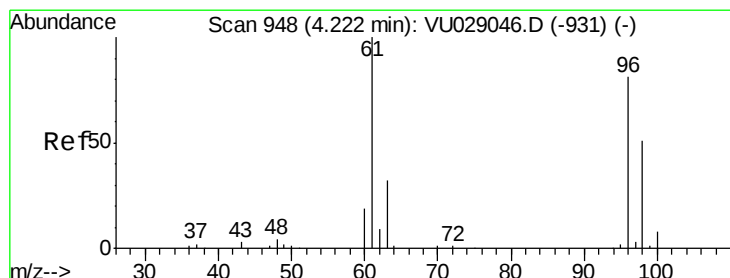
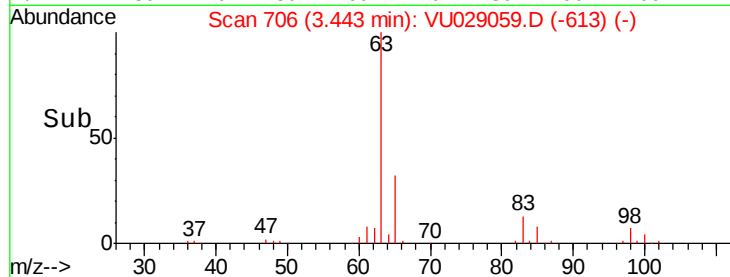
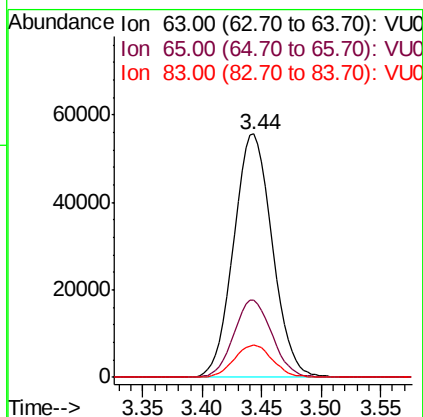
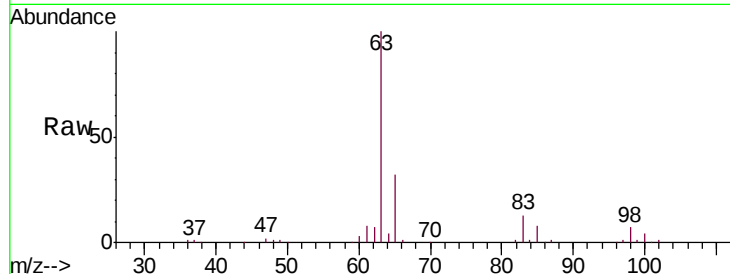




#19
 1,1-Dichloroethane
 Concen: 48.418 ug/L
 RT: 3.44 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

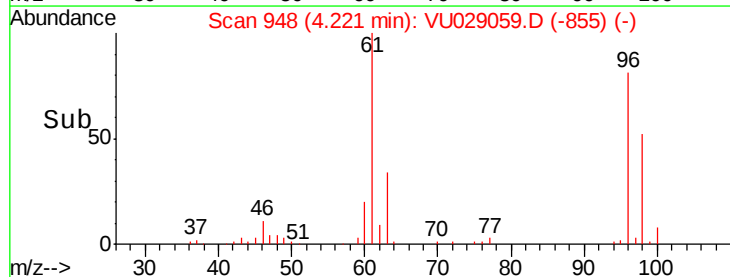
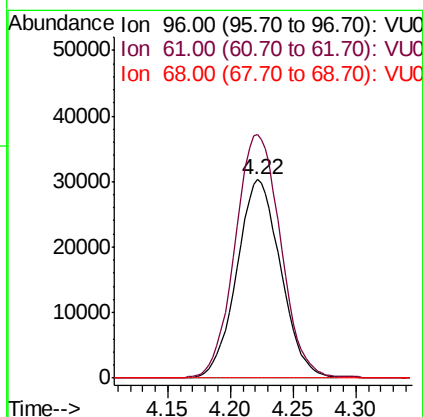
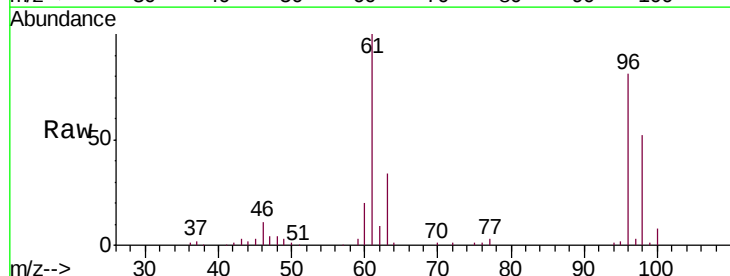
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

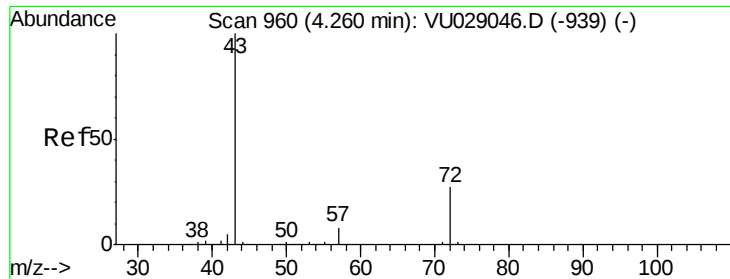
Tgt Ion: 63 Resp: 125572
 Ion Ratio Lower Upper
 63 100
 65 31.9 22.7 42.1
 83 13.1 9.0 16.8



#20
 cis-1,2-Dichloroethene
 Concen: 48.780 ug/L
 RT: 4.22 min Scan# 948
 Delta R.T. -0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

Tgt Ion: 96 Resp: 73723
 Ion Ratio Lower Upper
 96 100
 61 122.9 92.1 171.1
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 97.331 ug/L

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

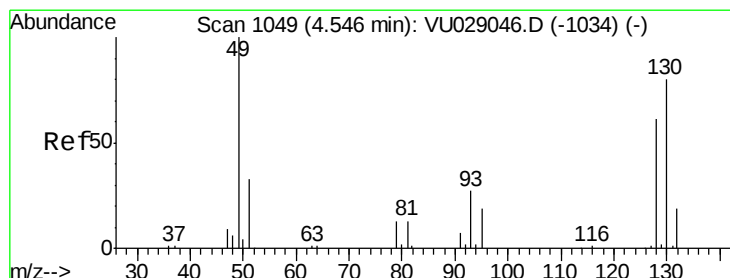
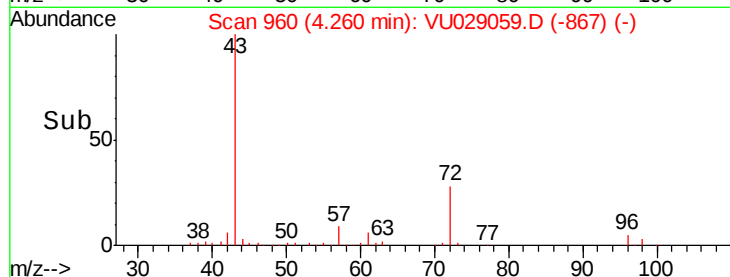
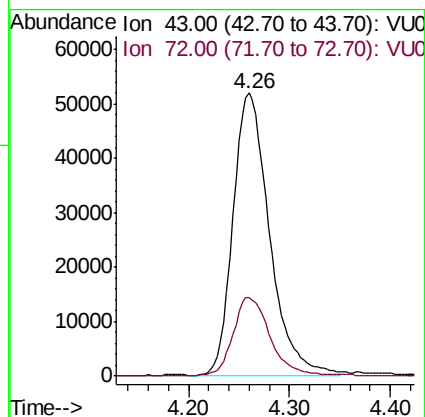
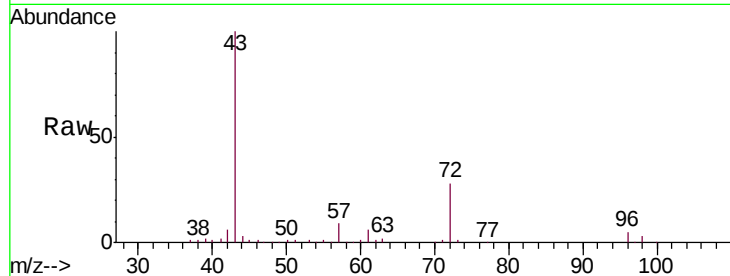
VSTD05051

Tgt Ion: 43 Resp: 130302

Ion Ratio Lower Upper

43 100

72 28.4 13.7 41.1



#23

Bromochloromethane

Concen: 49.140 ug/L

RT: 4.55 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Tgt Ion: 128 Resp: 35404

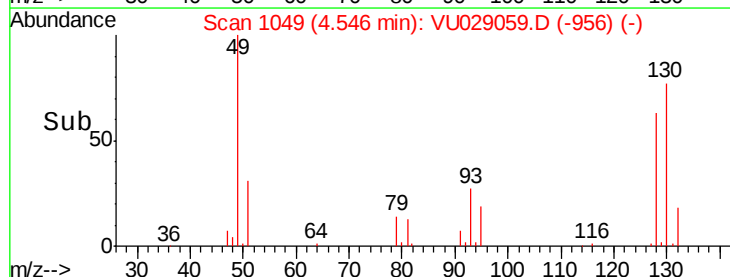
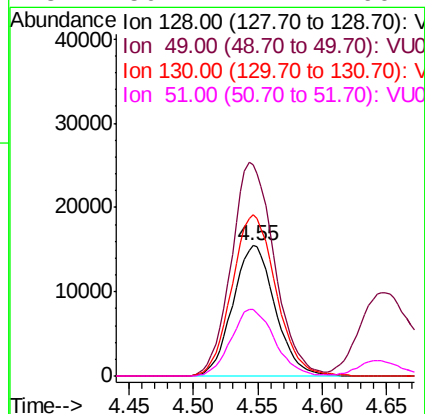
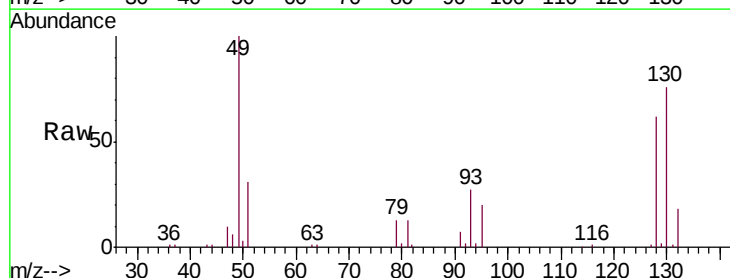
Ion Ratio Lower Upper

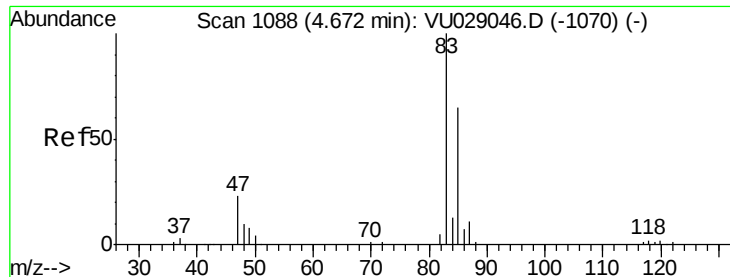
128 100

49 162.2 123.0 228.4

130 123.6 86.5 160.7

51 50.7 44.1 66.1

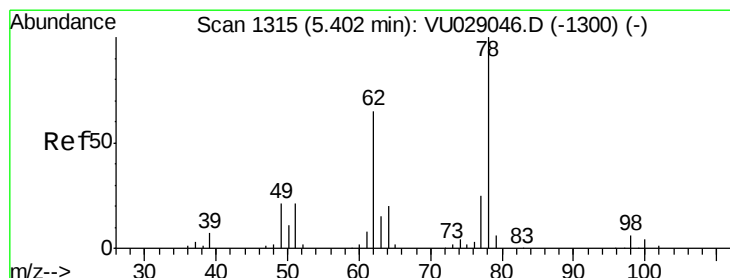
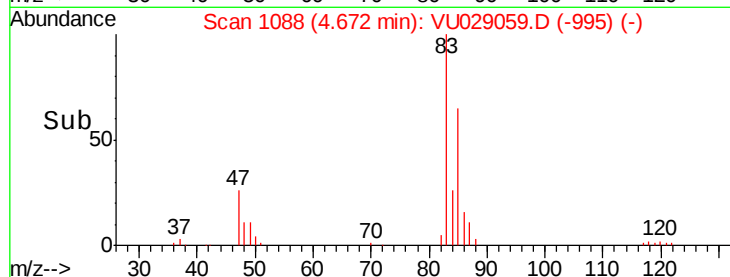
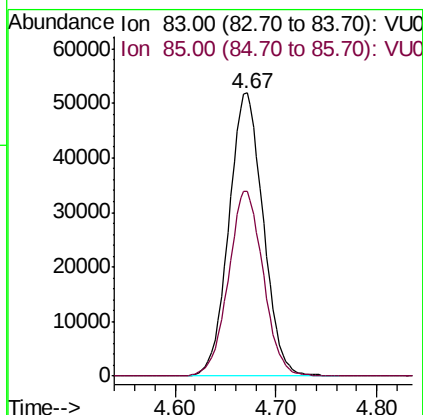
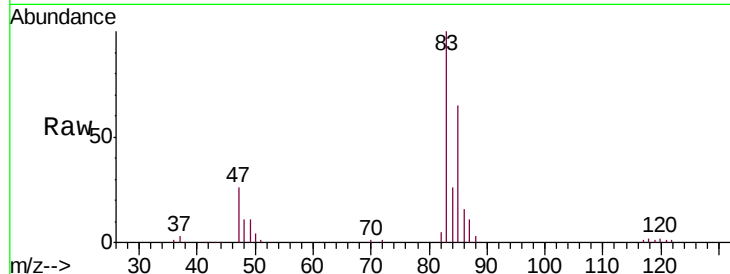




#25
Chloroform
Concen: 49.668 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU029059.D
Acq: 07 Jan 2019 15:36

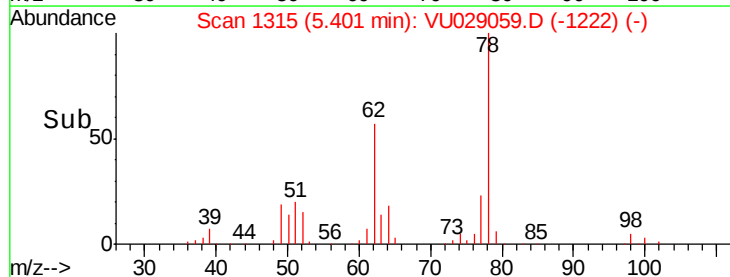
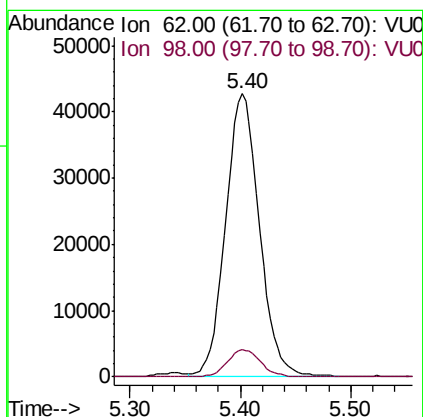
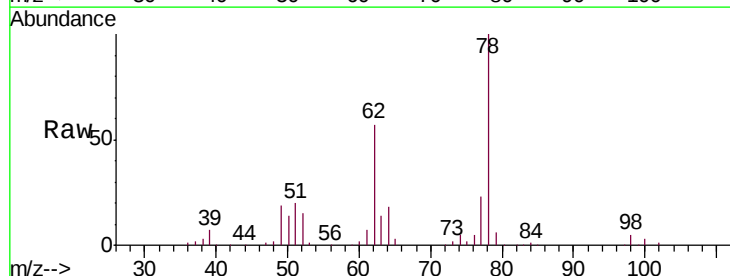
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

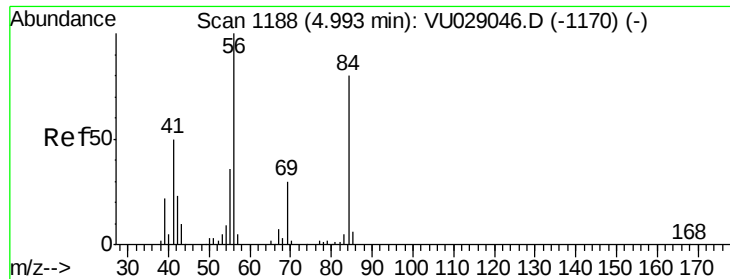
Tgt Ion: 83 Resp: 122604
Ion Ratio Lower Upper
83 100
85 65.4 45.6 84.6



#27
1,2-Dichloroethane
Concen: 49.166 ug/L
RT: 5.40 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VU029059.D
Acq: 07 Jan 2019 15:36

Tgt Ion: 62 Resp: 90197
Ion Ratio Lower Upper
62 100
98 9.6 7.5 11.3

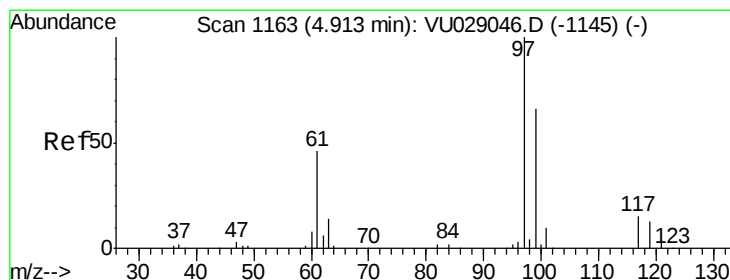
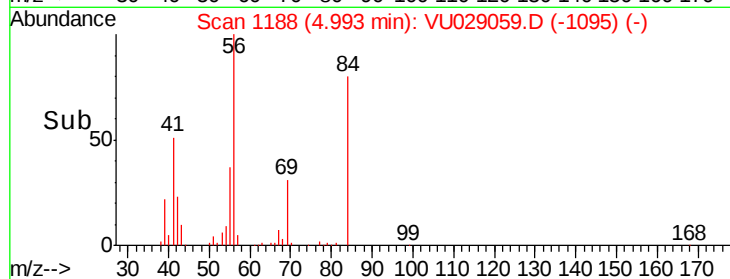
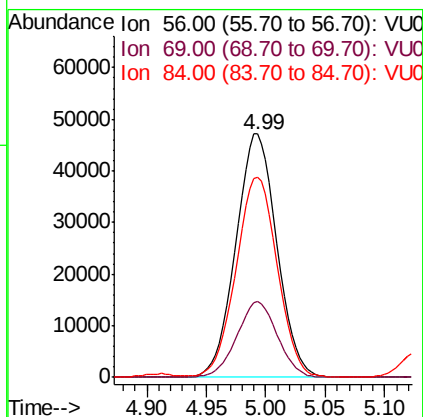
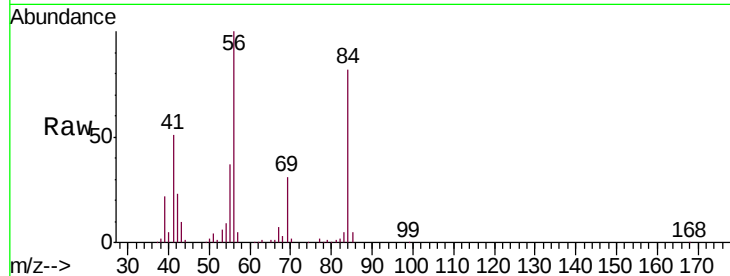




#29
Cyclohexane
Concen: 45.555 ug/L
RT: 4.99 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU029059.D
Acq: 07 Jan 2019 15:36

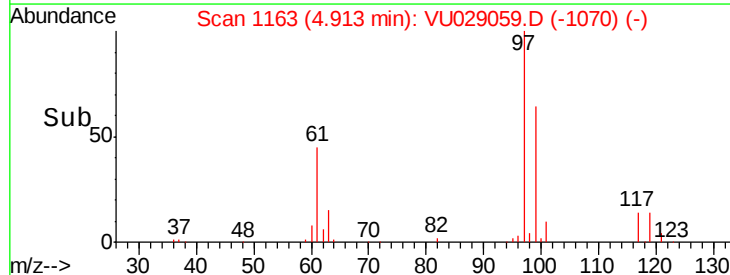
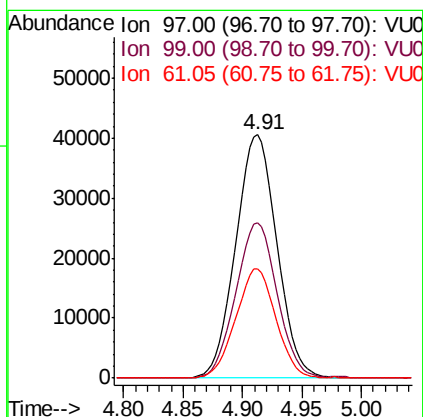
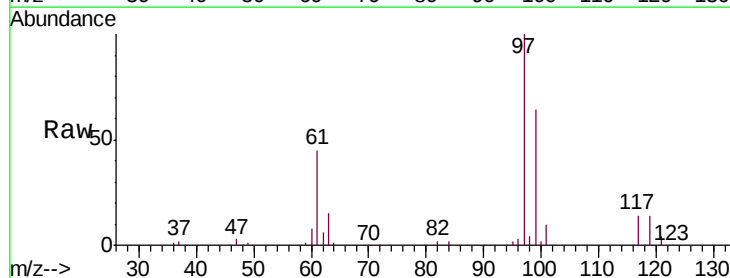
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

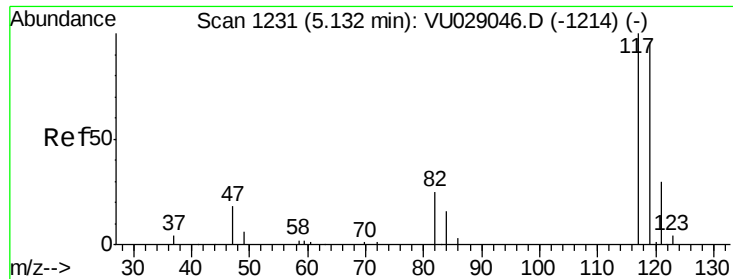
Tgt Ion: 56 Resp: 112586
Ion Ratio Lower Upper
56 100
69 30.7 23.8 35.8
84 82.9 63.8 95.8



#30
1,1,1-Trichloroethane
Concen: 49.703 ug/L
RT: 4.91 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VU029059.D
Acq: 07 Jan 2019 15:36

Tgt Ion: 97 Resp: 97686
Ion Ratio Lower Upper
97 100
99 63.8 51.2 76.8
61 43.7 36.1 54.1





#31

Carbon tetrachloride

Concen: 50.191 ug/L

RT: 5.13 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

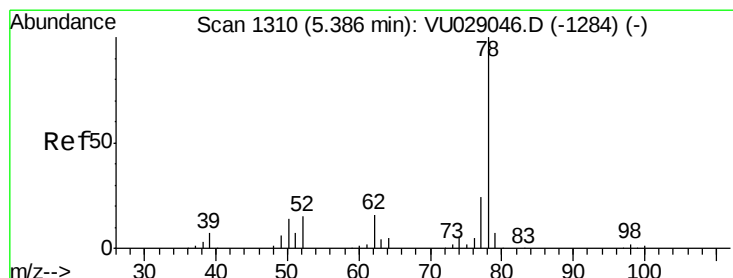
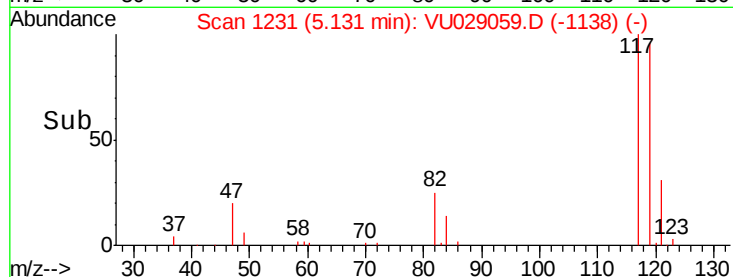
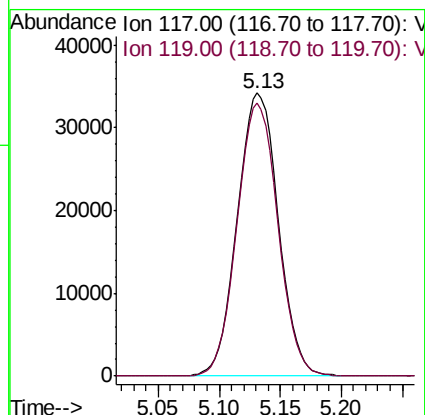
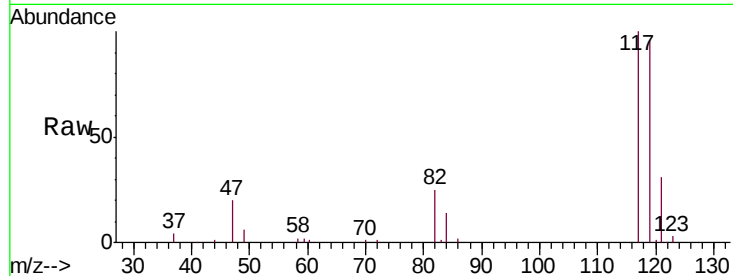
VSTD05051

Tgt Ion:117 Resp: 79547

Ion Ratio Lower Upper

117 100

119 96.2 77.0 115.6



#33

Benzene

Concen: 48.619 ug/L

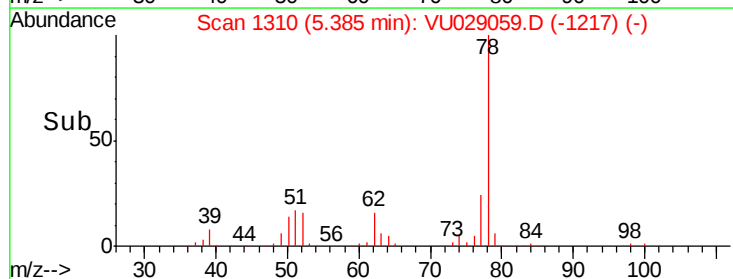
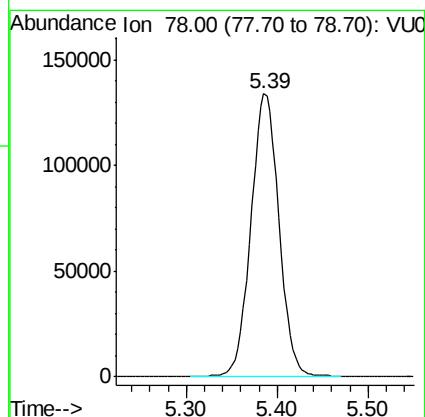
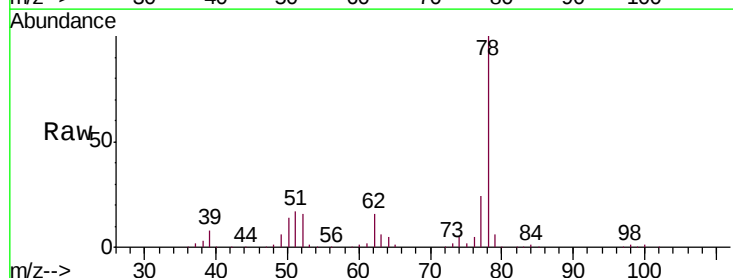
RT: 5.39 min Scan# 1310

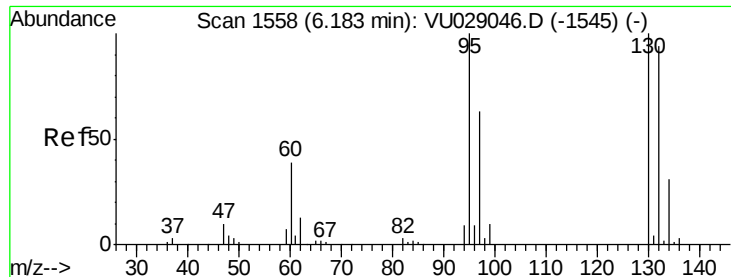
Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Tgt Ion: 78 Resp: 287419

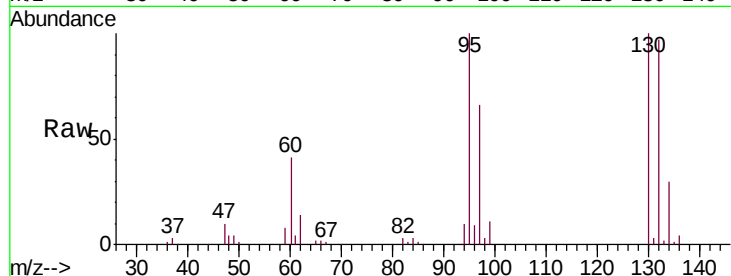




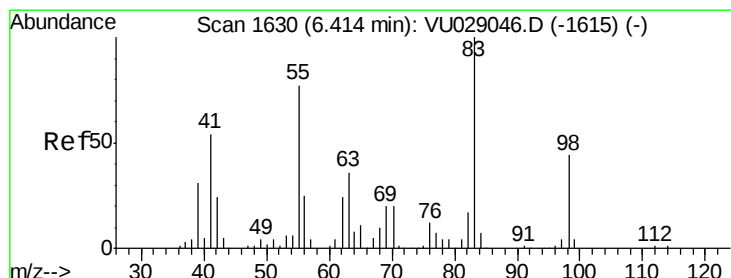
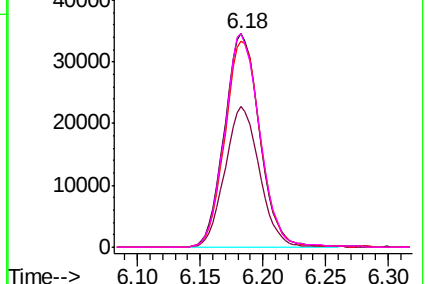
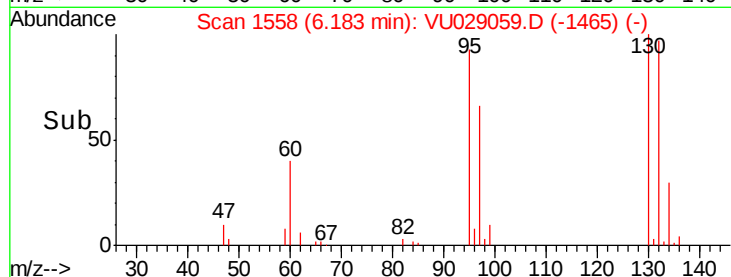
#34
 Trichloroethene
 Concen: 47.145 ug/L
 RT: 6.18 min Scan# 1558
 Delta R.T. -0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

Tgt Ion: 95 Resp: 67287
 Ion Ratio Lower Upper
 95 100
 97 65.8 43.3 80.3
 132 96.6 64.2 119.2
 130 99.8 67.1 124.7

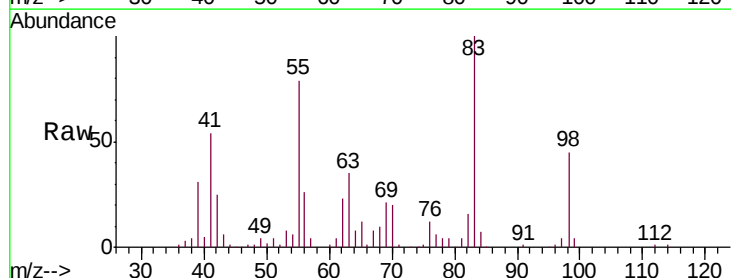


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

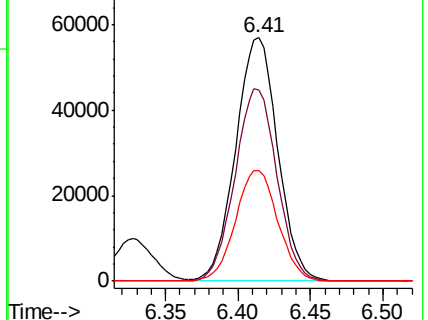
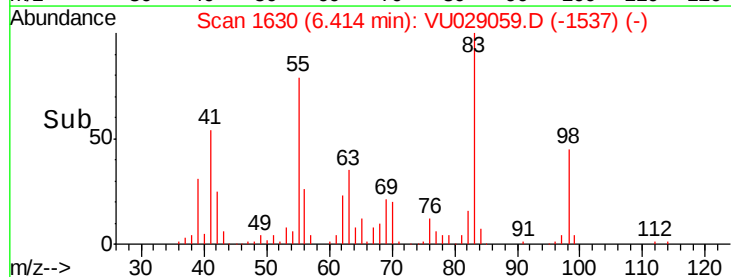


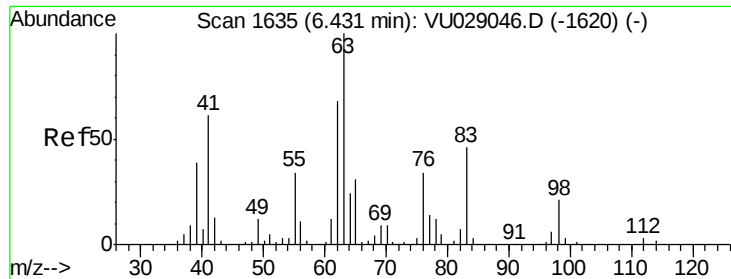
#35
 Methylcyclohexane
 Concen: 48.187 ug/L
 RT: 6.41 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

Tgt Ion: 83 Resp: 114544
 Ion Ratio Lower Upper
 83 100
 55 79.2 63.7 95.5
 98 45.9 35.6 53.4



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

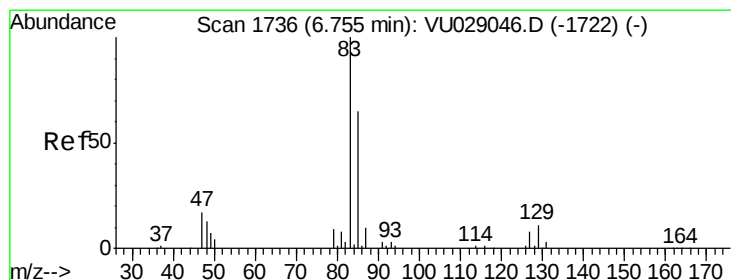
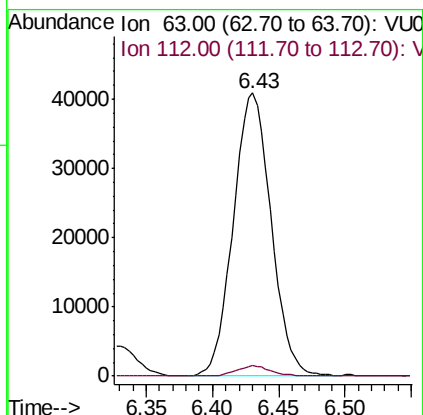
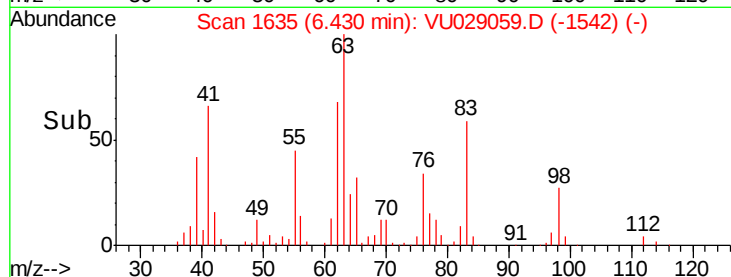
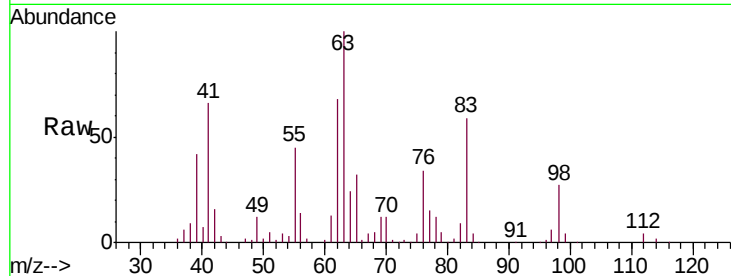




#37
 1,2-Dichloropropane
 Concen: 49.101 ug/L
 RT: 6.43 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

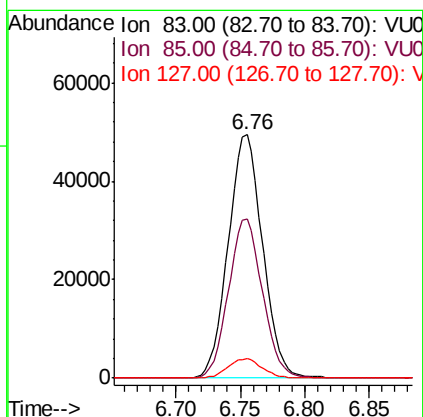
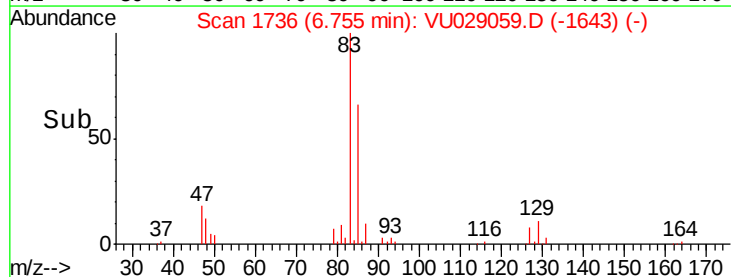
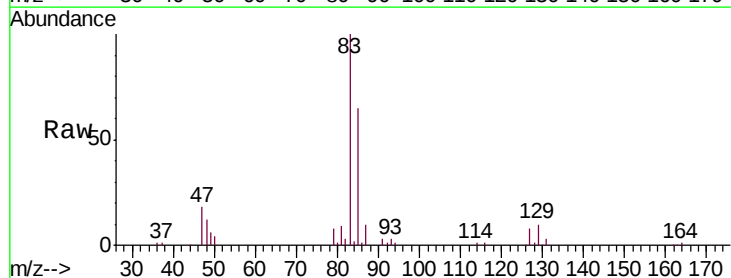
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

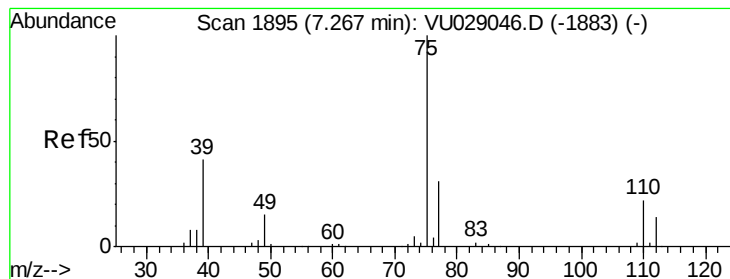
Tgt Ion: 63 Resp: 81141
 Ion Ratio Lower Upper
 63 100
 112 3.4 2.7 4.1



#38
 Bromodichloromethane
 Concen: 50.197 ug/L
 RT: 6.76 min Scan# 1736
 Delta R.T. -0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

Tgt Ion: 83 Resp: 91861
 Ion Ratio Lower Upper
 83 100
 85 65.2 45.4 84.2
 127 7.8 6.2 9.2





#39

cis-1,3-Dichloropropene

Concen: 49.536 ug/L

RT: 7.27 min Scan# 1895

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

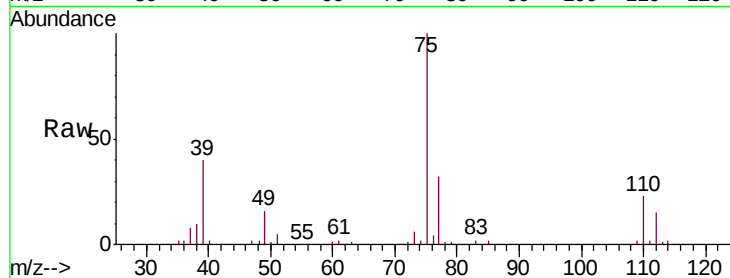
VSTD05051

Tgt Ion: 75 Resp: 116704

Ion Ratio Lower Upper

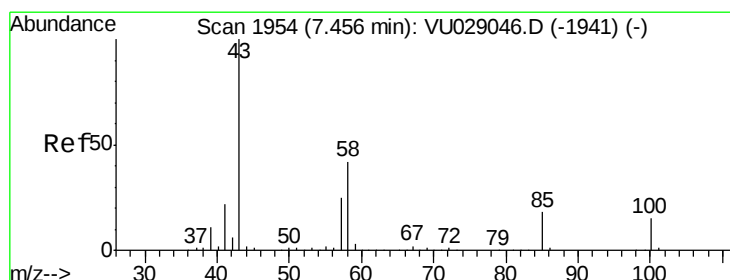
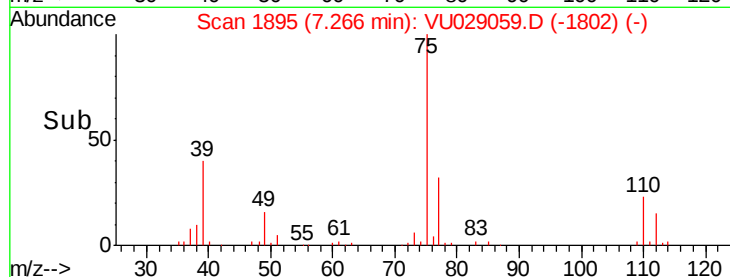
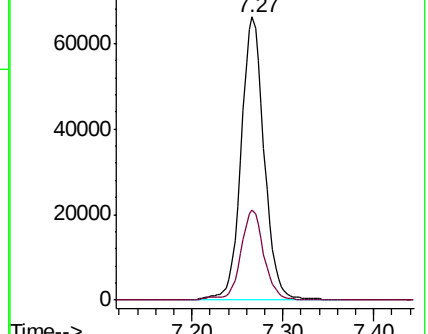
75 100

77 31.7 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VU029046.D (-1883) (-)

Ion 77.00 (76.70 to 77.70): VU029046.D (-1883) (-)



#40

4-Methyl-2-pentanone

Concen: 99.421 ug/L

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

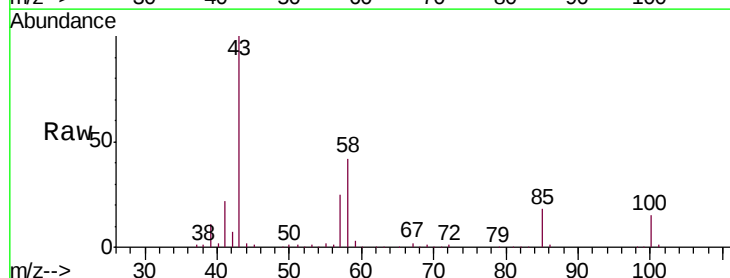
Tgt Ion: 43 Resp: 220832

Ion Ratio Lower Upper

43 100

58 41.3 33.1 49.7

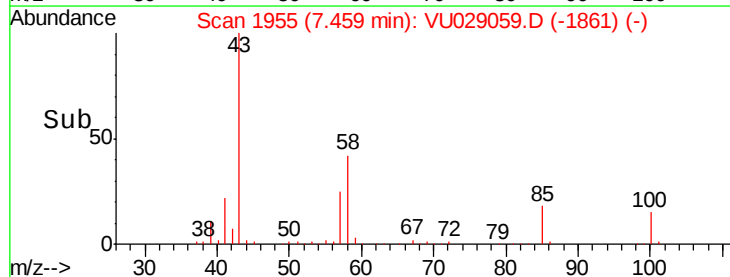
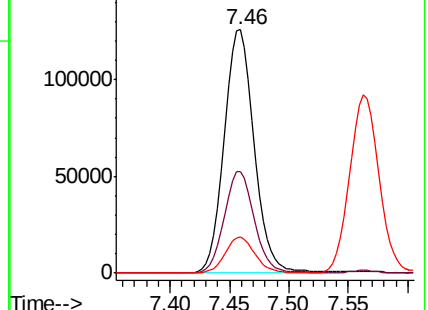
100 14.7 11.5 17.3

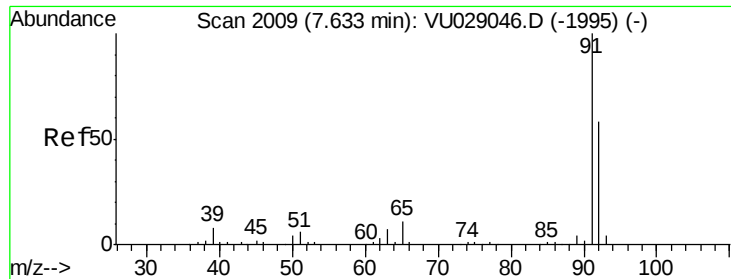


Abundance Ion 43.00 (42.70 to 43.70): VU029046.D (-1941) (-)

Ion 58.00 (57.70 to 58.70): VU029046.D (-1941) (-)

Ion 100.00 (99.70 to 100.70): VU029046.D (-1941) (-)





#42

Toluene

Concen: 49.856 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

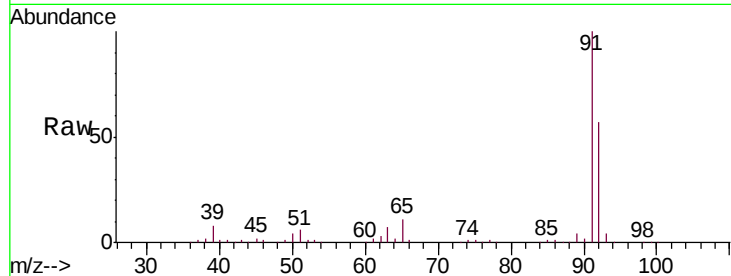
VSTD05051

Tgt Ion: 91 Resp: 298766

Ion Ratio Lower Upper

91 100

92 57.5 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU029046.D (-1995) (-)

Ion 92.00 (91.70 to 92.70): VU029046.D (-1995) (-)

7.64

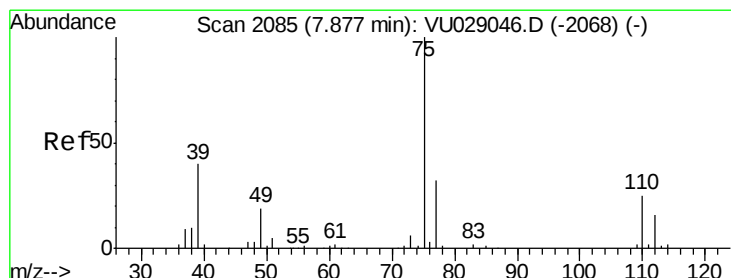
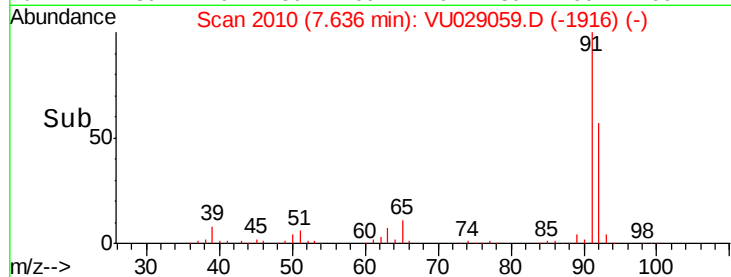
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 50.152 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. -0.00 min

Lab File: VU029059.D

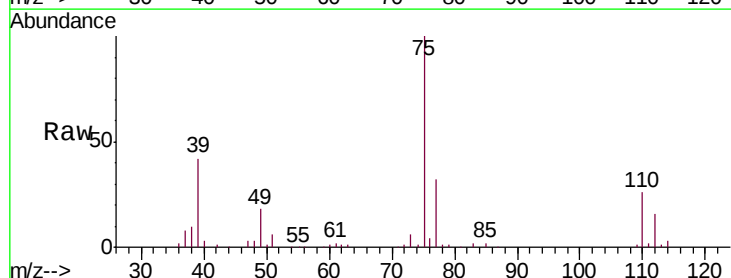
Acq: 07 Jan 2019 15:36

Tgt Ion: 75 Resp: 105323

Ion Ratio Lower Upper

75 100

77 32.2 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VU029046.D (-2068) (-)

Ion 77.00 (76.70 to 77.70): VU029046.D (-2068) (-)

7.88

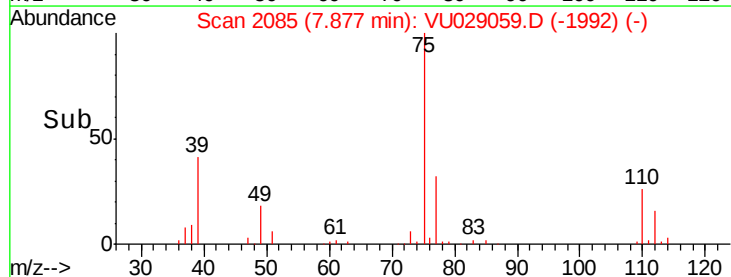
60000

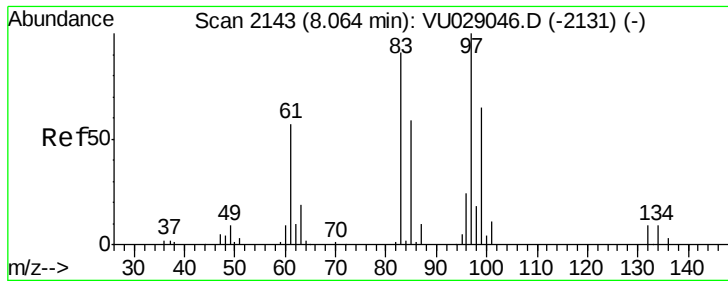
40000

20000

0

Time-->

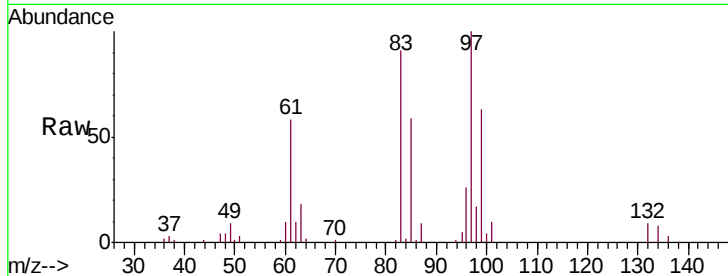




#45
 1,1,2-Trichloroethane
 Concen: 50.436 ug/L
 RT: 8.06 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

Tgt Ion:	97	Resp:	71263
Ion	Ratio	Lower	Upper
97	100		
99	63.3	44.2	82.2
83	91.0	64.5	119.9
85	58.7	40.9	75.9



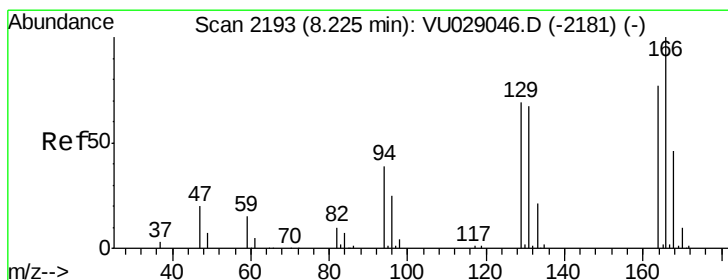
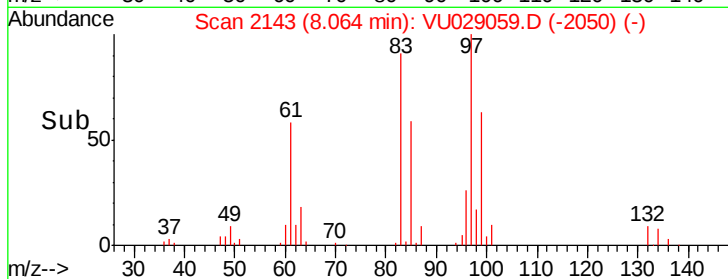
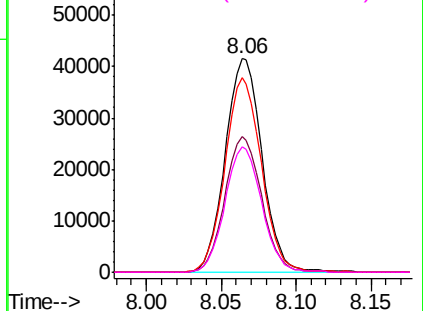
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

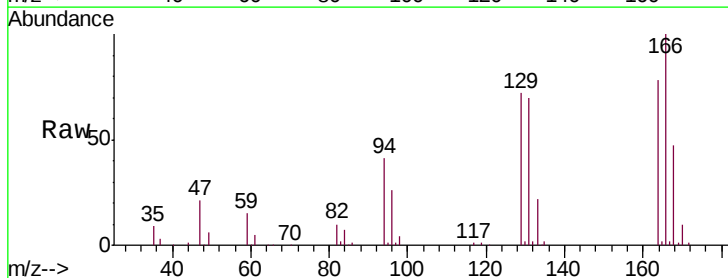
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 49.538 ug/L
 RT: 8.22 min Scan# 2193
 Delta R.T. -0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

Tgt Ion:	164	Resp:	54452
Ion	Ratio	Lower	Upper
164	100		
129	92.5	66.8	124.0
131	89.6	64.2	119.2
166	128.8	90.8	168.6



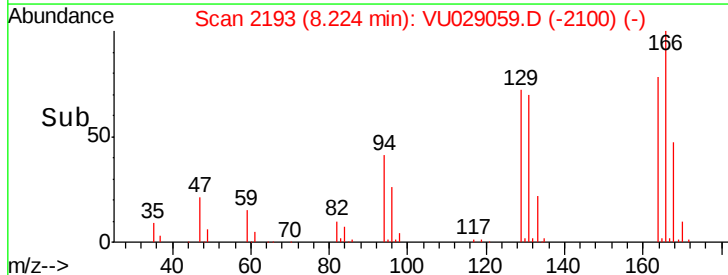
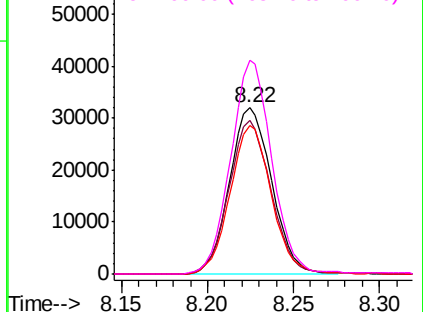
Abundance

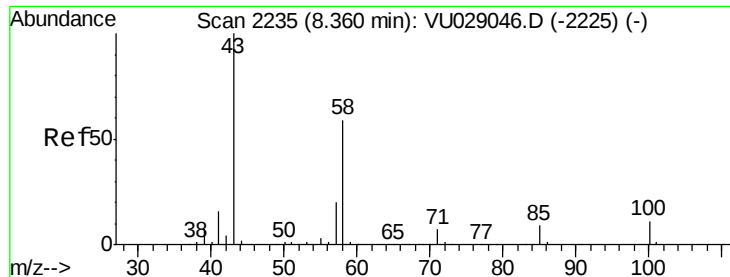
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

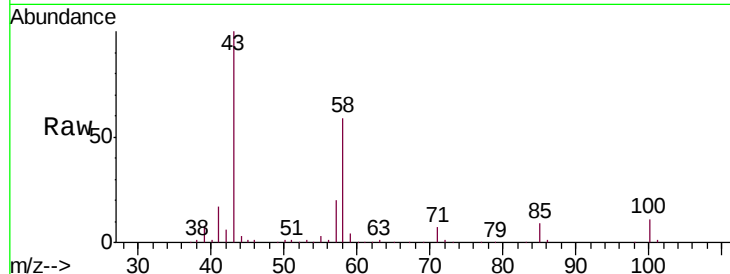




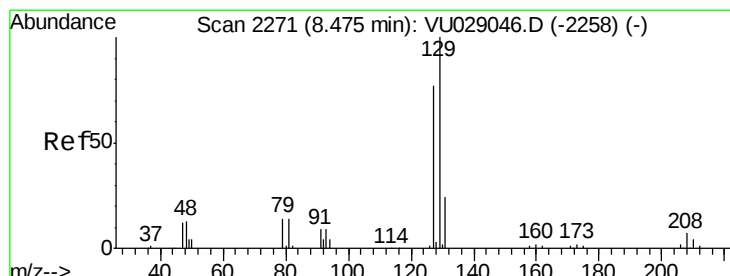
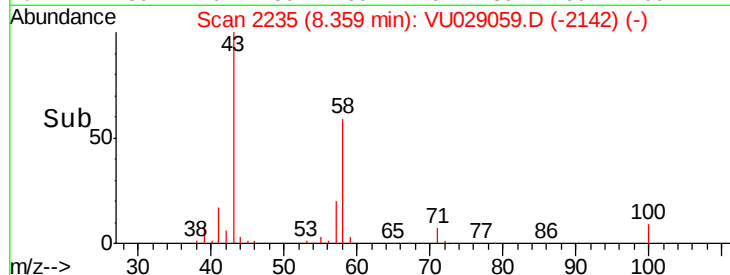
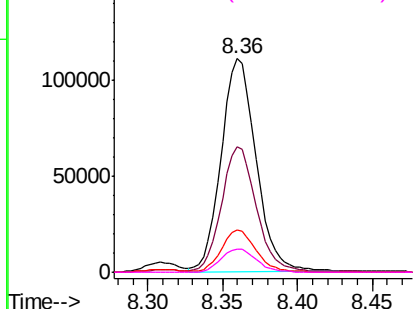
#48
2-Hexanone
Concen: 98.496 ug/L
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU029059.D
Acq: 07 Jan 2019 15:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

Tgt Ion: 43 Resp: 179562
Ion Ratio Lower Upper
43 100
58 58.2 45.9 68.9
57 19.8 15.0 22.4
100 11.2 8.7 13.1

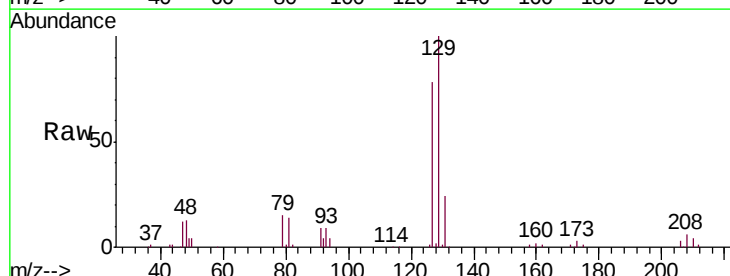


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

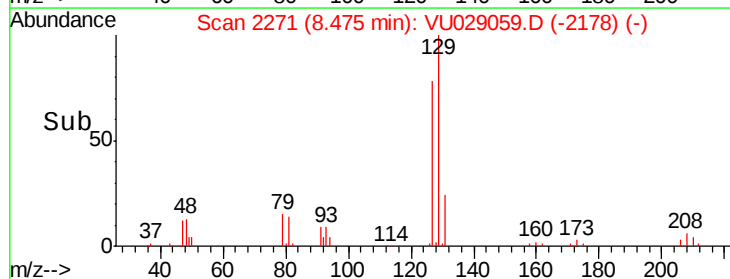
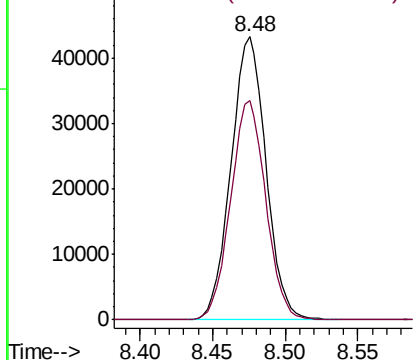


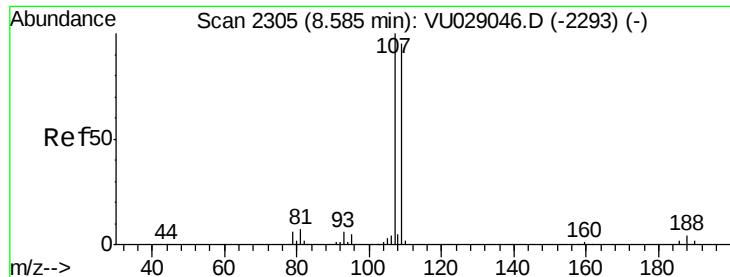
#49
Dibromochloromethane
Concen: 51.480 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU029059.D
Acq: 07 Jan 2019 15:36

Tgt Ion: 129 Resp: 72451
Ion Ratio Lower Upper
129 100
127 77.7 54.1 100.5



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

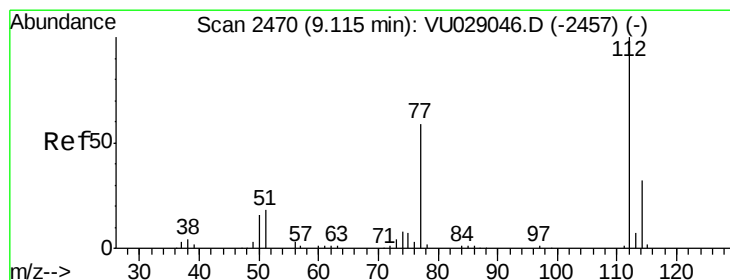
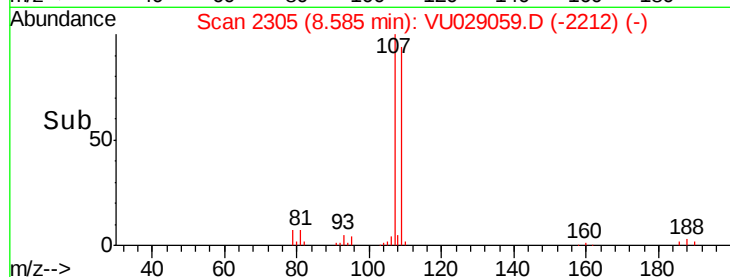
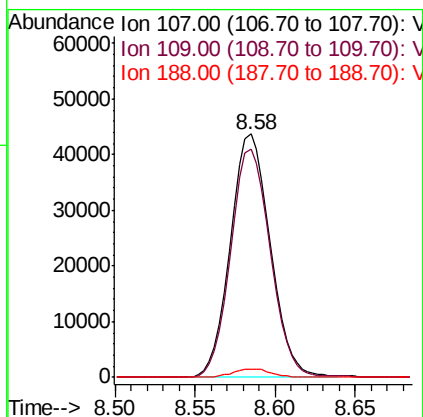
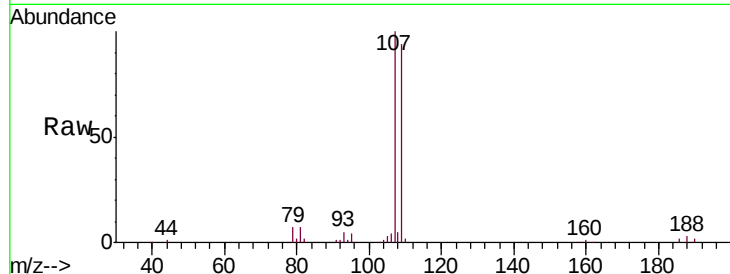




#50
1,2-Dibromoethane
Concen: 50.437 ug/L
RT: 8.58 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VU029059.D
Acq: 07 Jan 2019 15:36

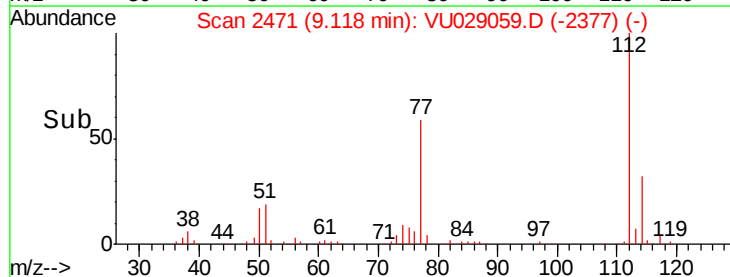
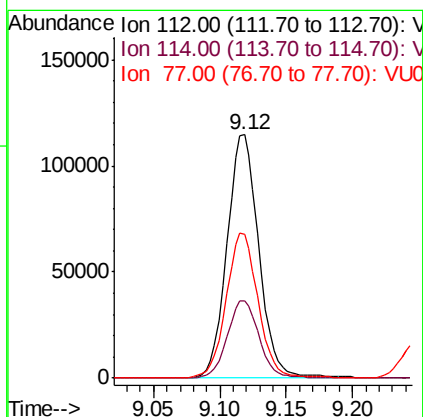
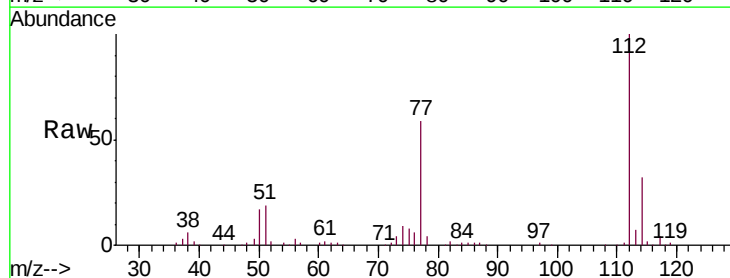
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

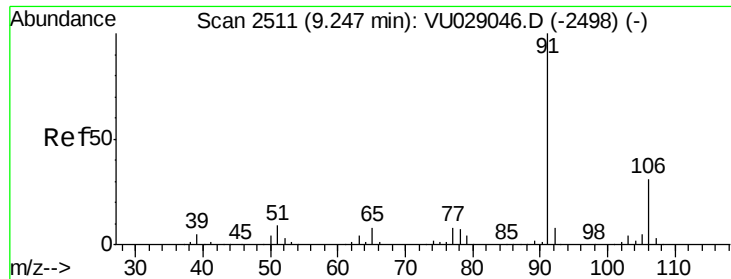
Tgt Ion:107 Resp: 74146
Ion Ratio Lower Upper
107 100
109 93.9 66.0 122.6
188 3.4 3.1 4.7



#51
Chlorobenzene
Concen: 50.615 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU029059.D
Acq: 07 Jan 2019 15:36

Tgt Ion:112 Resp: 191161
Ion Ratio Lower Upper
112 100
114 32.0 22.2 41.2
77 58.8 47.8 71.8





#52

Ethylbenzene

Concen: 49.146 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

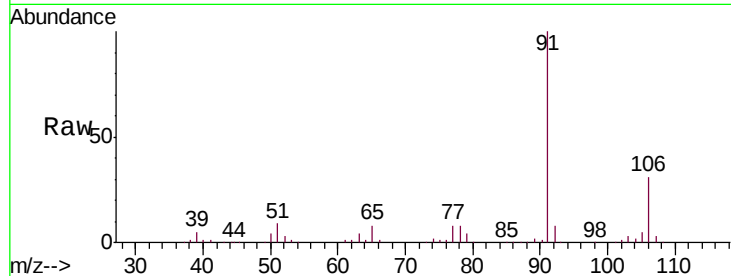
VSTD05051

Tgt Ion: 91 Resp: 316456

Ion Ratio Lower Upper

91 100

106 31.1 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU029046.D (-2498) (-)

Ion 106.00 (105.70 to 106.70): VU029046.D (-2498) (-)

9.25

200000

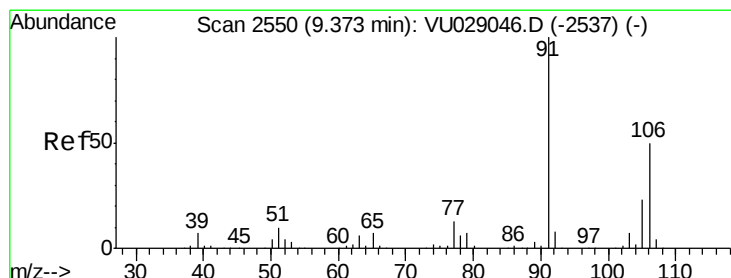
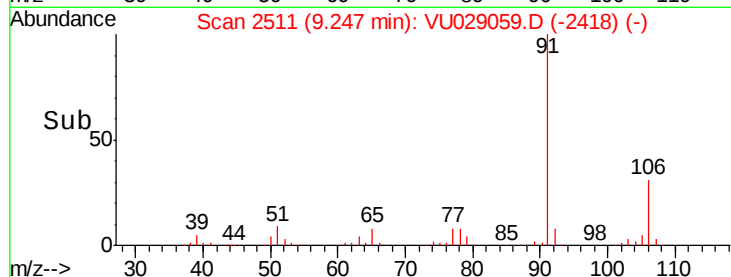
150000

100000

50000

0

Time--> 9.15 9.20 9.25 9.30 9.35



#53

m,p-Xylene

Concen: 49.913 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU029059.D

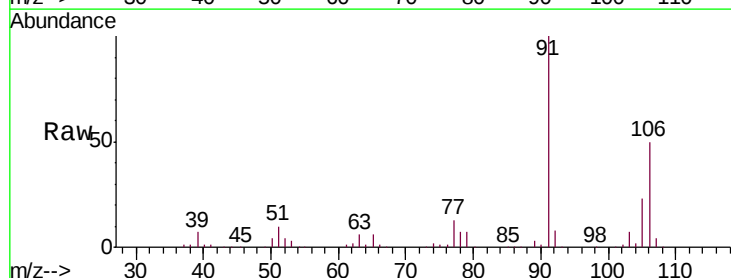
Acq: 07 Jan 2019 15:36

Tgt Ion: 106 Resp: 118848

Ion Ratio Lower Upper

106 100

91 200.1 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): VU029046.D (-2537) (-)

Ion 91.00 (90.70 to 91.70): VU029046.D (-2537) (-)

9.37

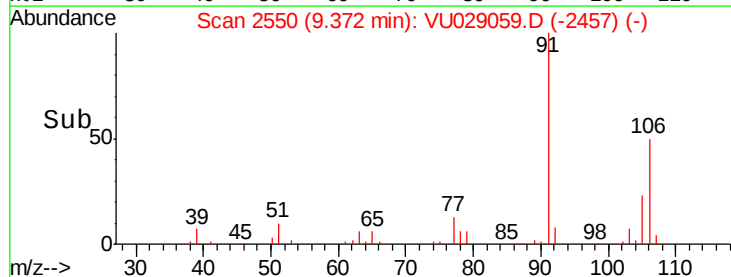
150000

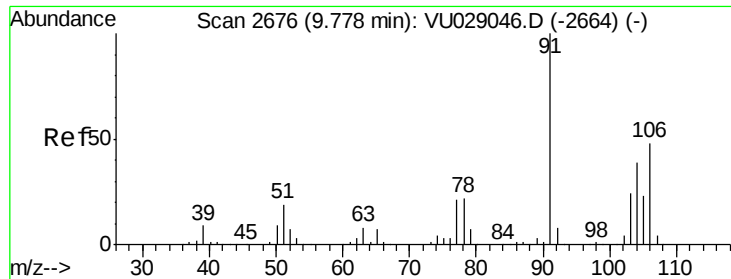
100000

50000

0

Time--> 9.30 9.35 9.40 9.45





#54

o-xylene

Concen: 50.061 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

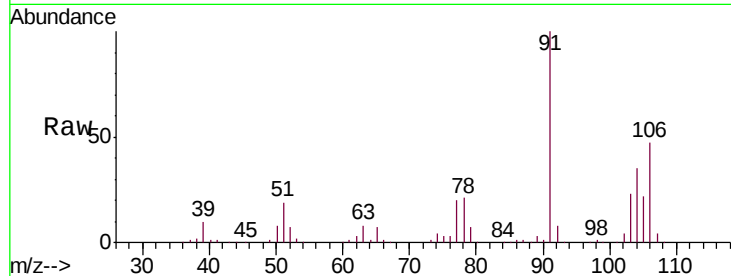
VSTD05051

Tgt Ion:106 Resp: 119469

Ion Ratio Lower Upper

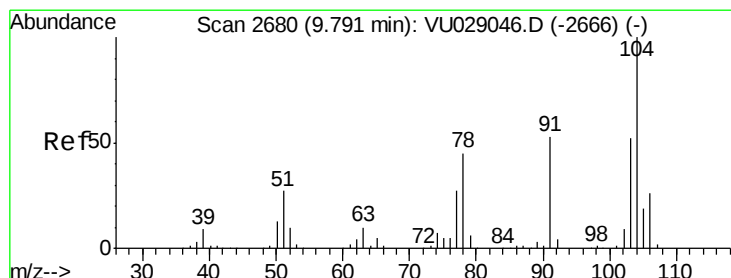
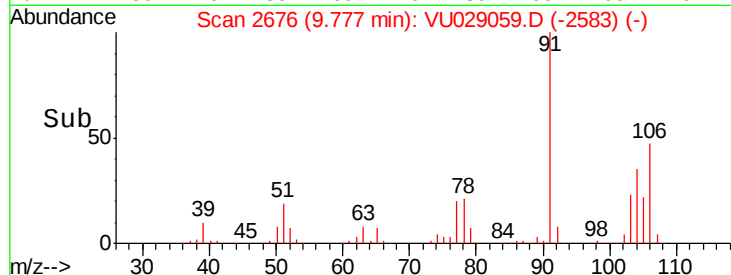
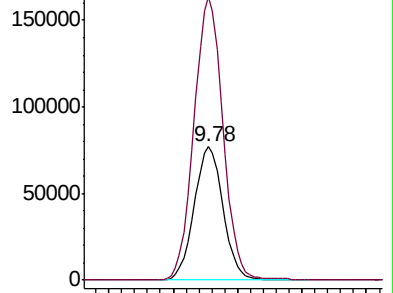
106 100

91 212.3 150.4 279.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.785 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. -0.00 min

Lab File: VU029059.D

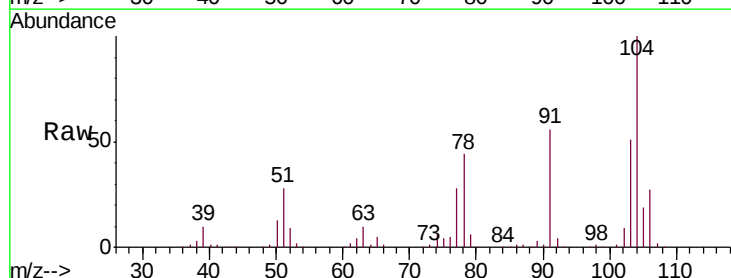
Acq: 07 Jan 2019 15:36

Tgt Ion:104 Resp: 205263

Ion Ratio Lower Upper

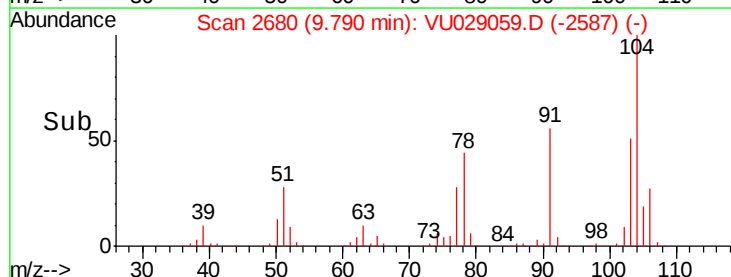
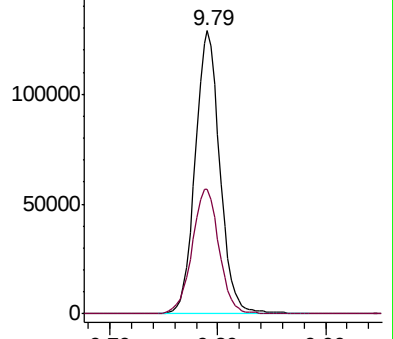
104 100

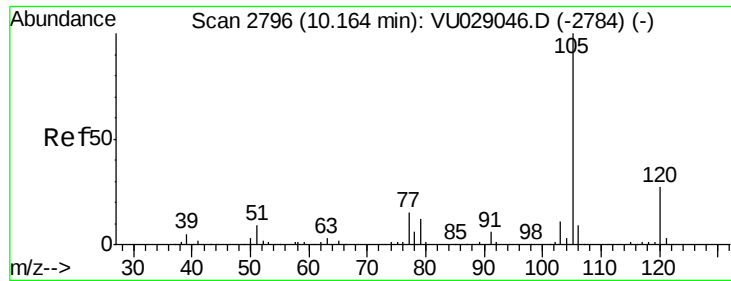
78 44.1 31.3 58.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.835 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

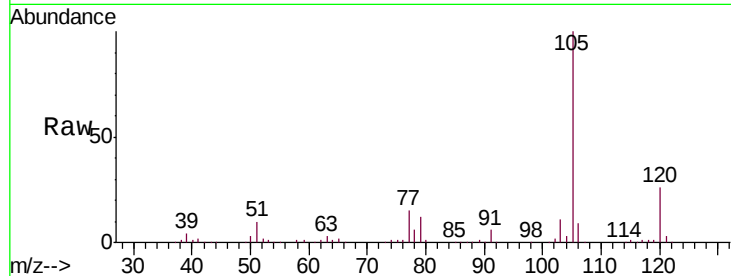
Tgt Ion: 105 Resp: 301704

Ion Ratio Lower Upper

105 100

120 26.3 21.4 32.2

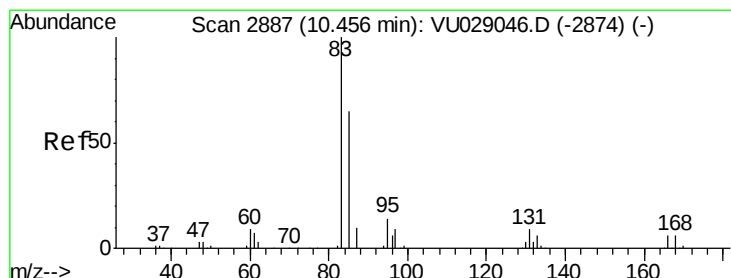
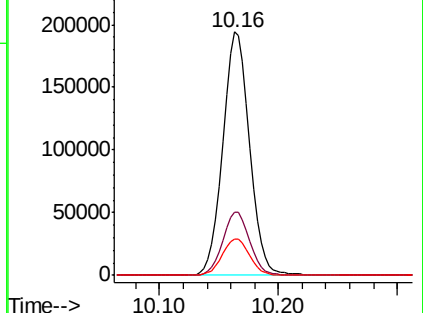
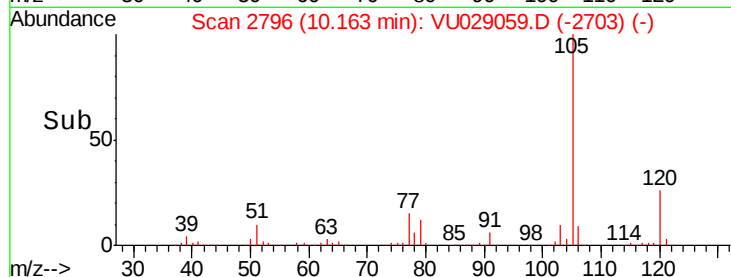
77 15.4 12.3 18.5



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: 50.427 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

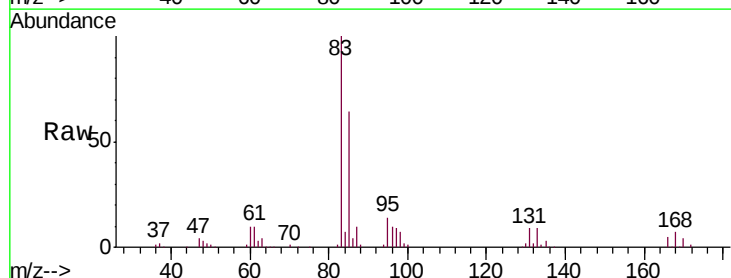
Tgt Ion: 83 Resp: 129436

Ion Ratio Lower Upper

83 100

85 64.3 45.3 84.1

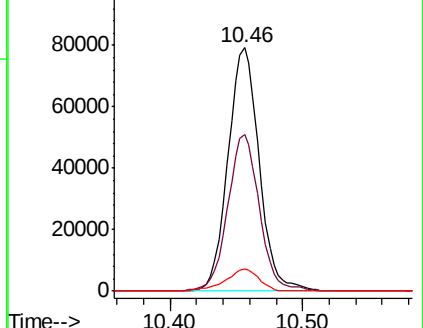
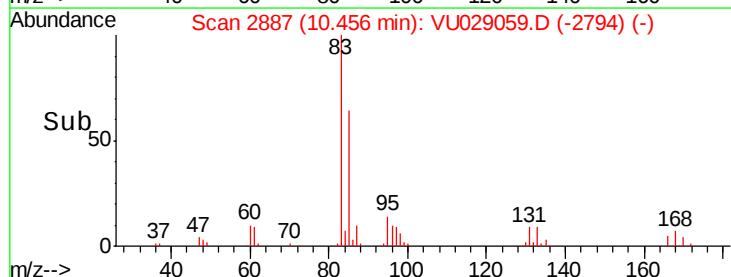
131 8.9 6.7 10.1

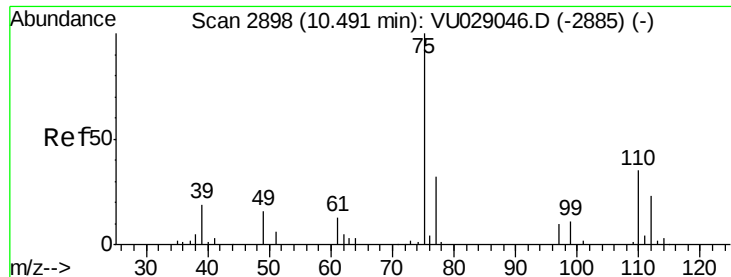


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

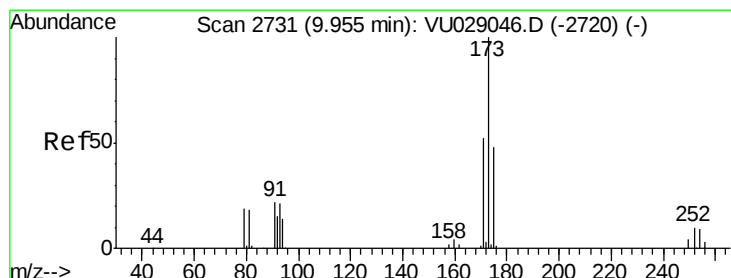
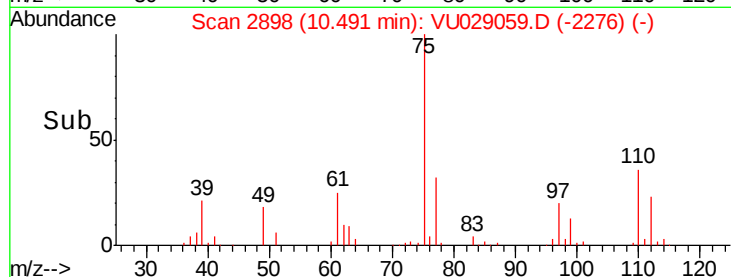
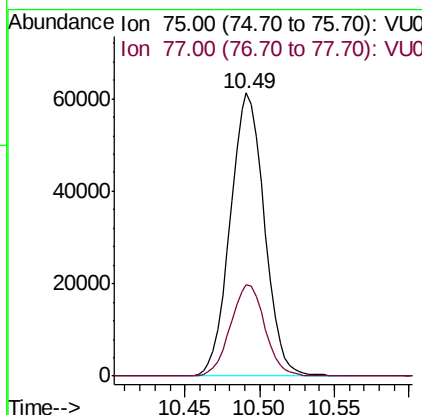
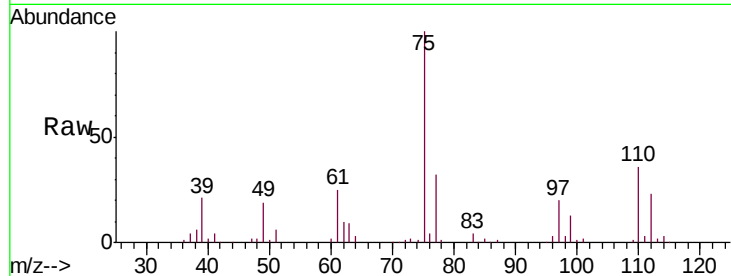




#59
 1,2,3-Trichloropropane
 Concen: 49.399 ug/L
 RT: 10.49 min Scan# 2898
 Delta R.T. -0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

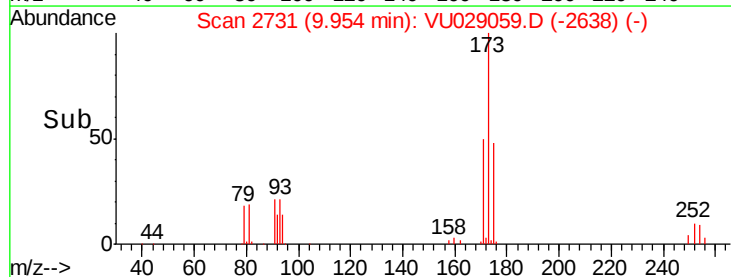
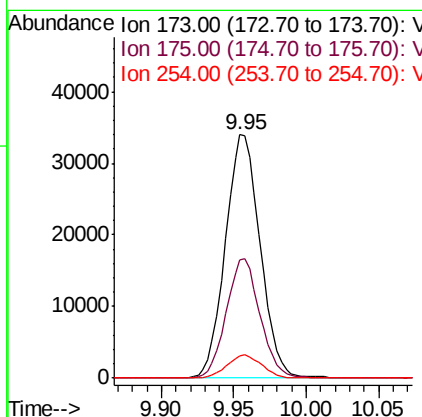
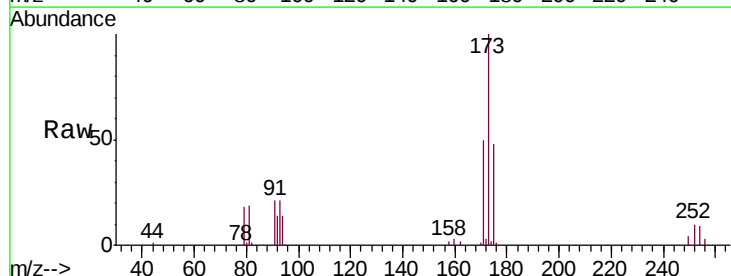
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

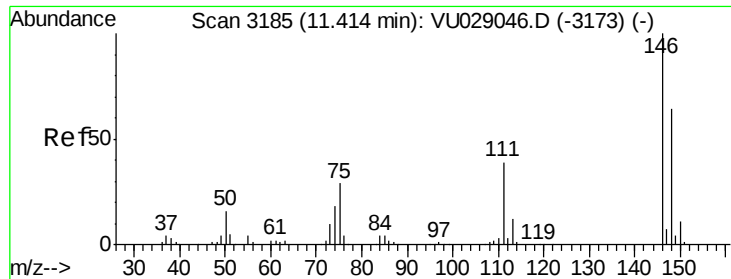
Tgt Ion: 75 Resp: 97417
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.5 38.3



#61
 Bromoform
 Concen: 53.641 ug/L
 RT: 9.95 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

Tgt Ion: 173 Resp: 56516
 Ion Ratio Lower Upper
 173 100
 175 47.5 38.9 58.3
 254 9.4 7.8 11.8





#62

1,3-Dichlorobenzene

Concen: 50.480 ug/L

RT: 11.41 min Scan# 3185

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

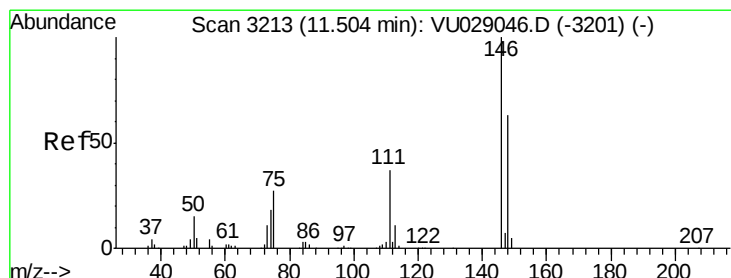
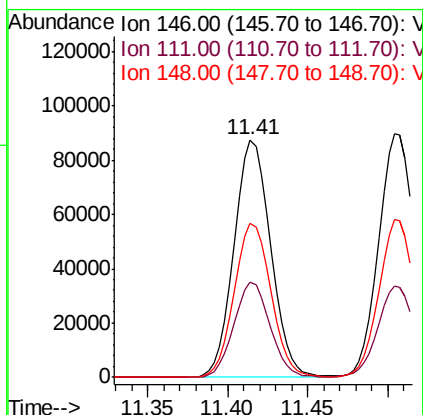
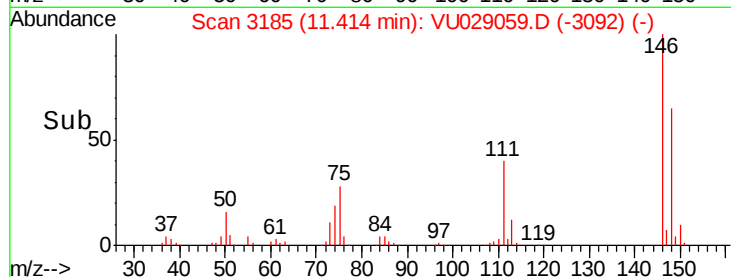
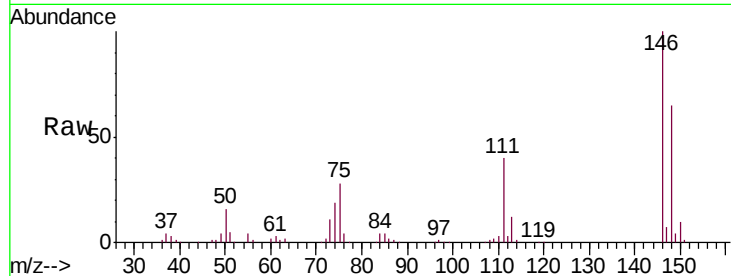
Tgt Ion:146 Resp: 136291

Ion Ratio Lower Upper

146 100

111 39.9 27.4 50.8

148 64.6 44.2 82.2



#63

1,4-Dichlorobenzene

Concen: 51.367 ug/L

RT: 11.50 min Scan# 3213

Delta R.T. -0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

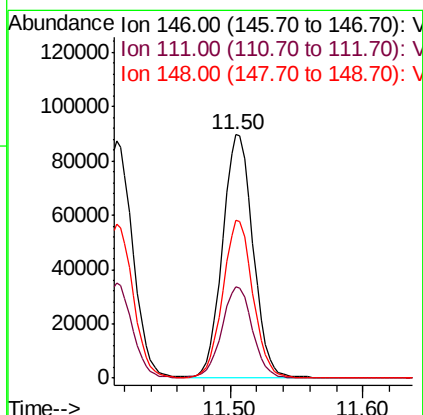
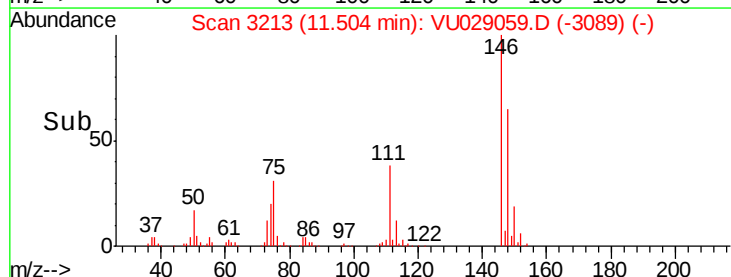
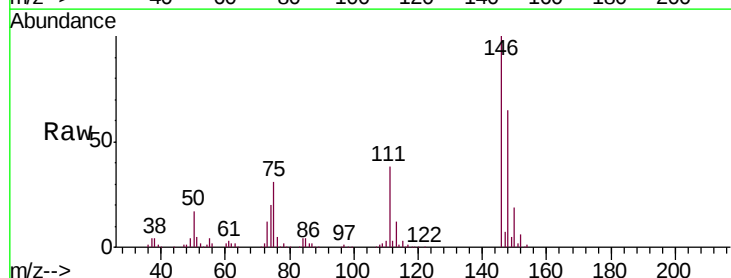
Tgt Ion:146 Resp: 142884

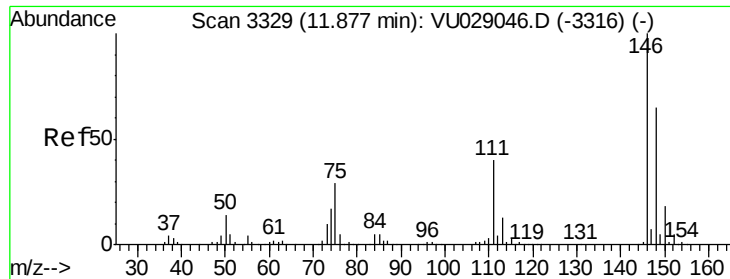
Ion Ratio Lower Upper

146 100

111 37.6 26.5 49.1

148 64.9 45.1 83.9

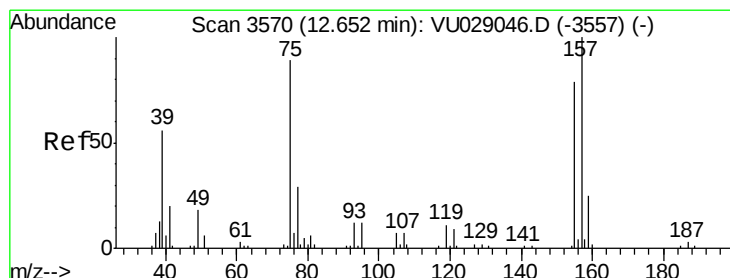
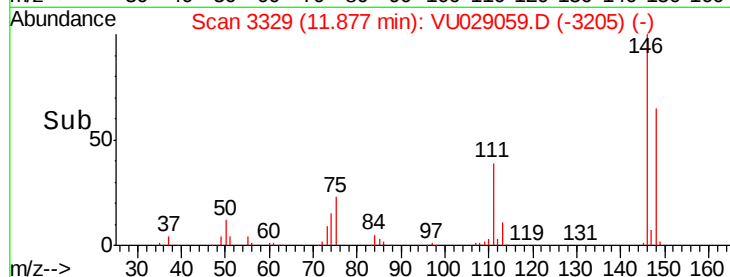
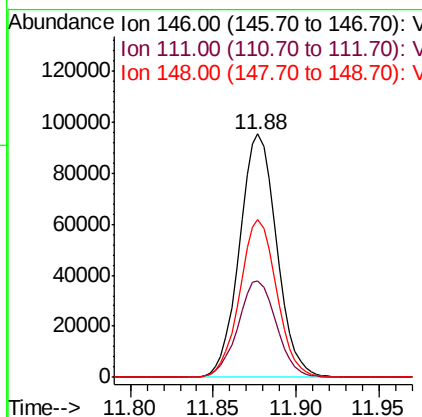
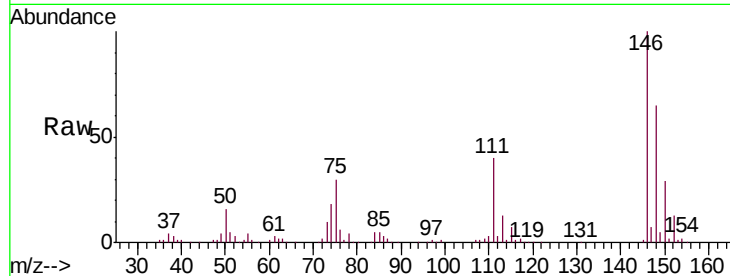




#65
 1,2-Dichlorobenzene
 Concen: 52.993 ug/L
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

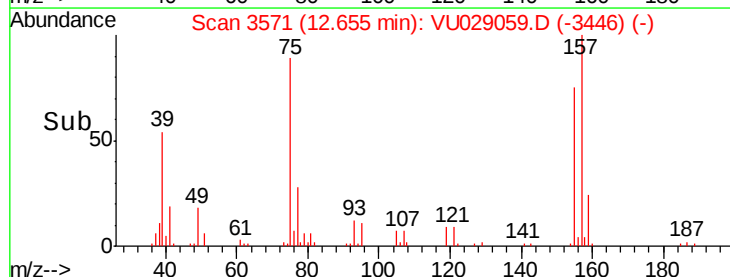
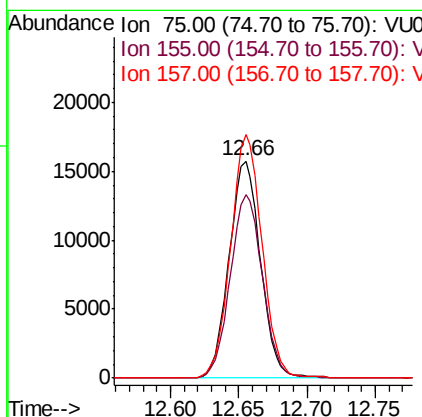
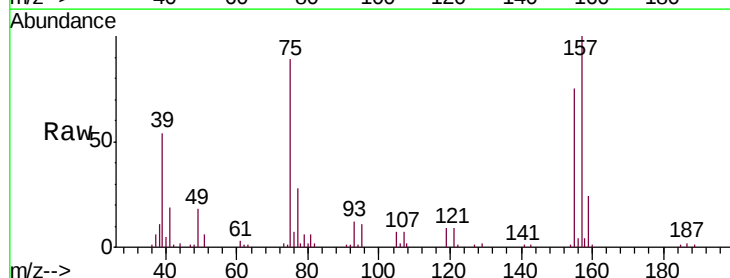
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

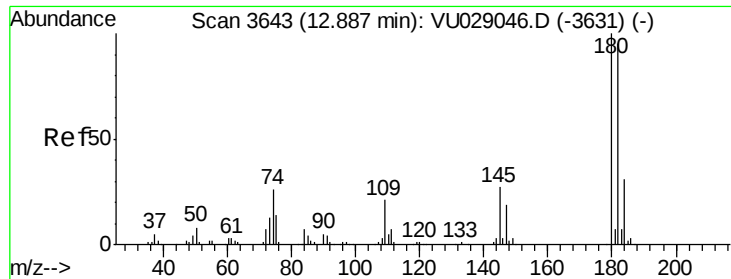
Tgt Ion: 146 Resp: 149251
 Ion Ratio Lower Upper
 146 100
 111 39.7 32.1 48.1
 148 64.8 49.7 74.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.833 ug/L
 RT: 12.66 min Scan# 3571
 Delta R.T. 0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

Tgt Ion: 75 Resp: 25181
 Ion Ratio Lower Upper
 75 100
 155 84.3 71.4 107.2
 157 112.2 89.6 134.4

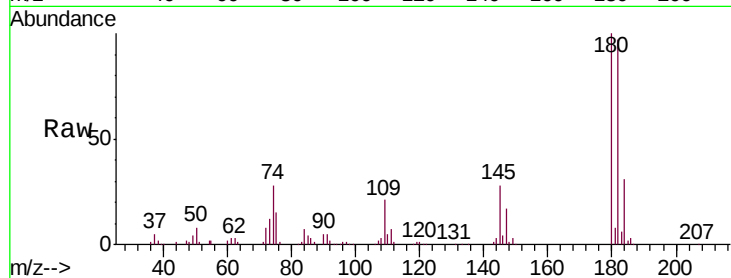




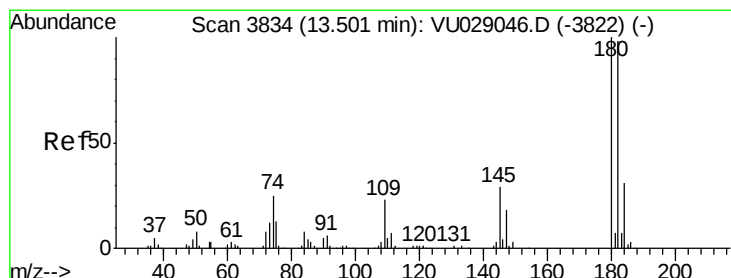
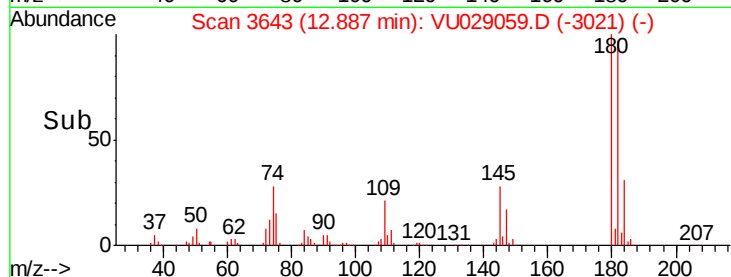
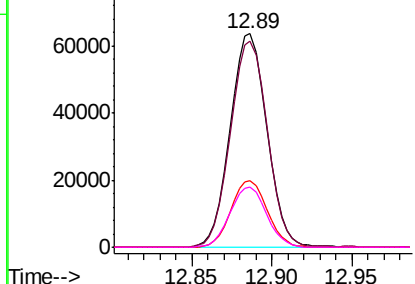
#67
 1,3,5-Trichlorobenzene
 Concen: 49.919 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

Tgt Ion:180 Resp: 99371
 Ion Ratio Lower Upper
 180 100
 182 97.3 76.4 114.6
 184 30.9 24.6 36.8
 145 28.0 22.1 33.1

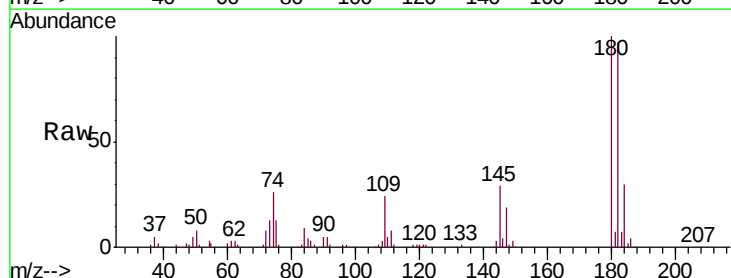


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

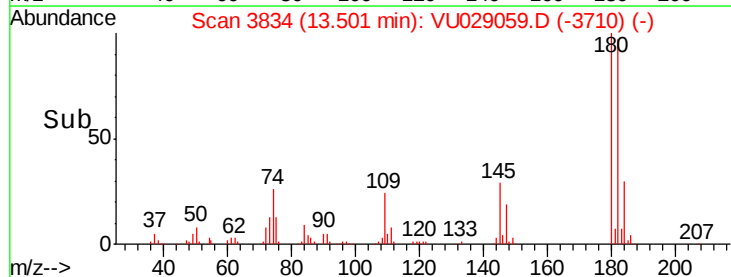
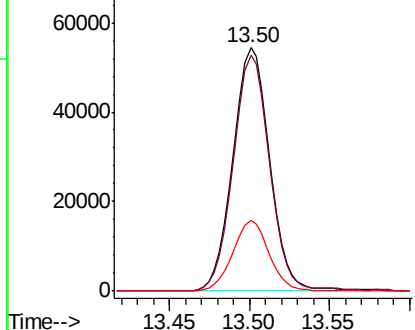


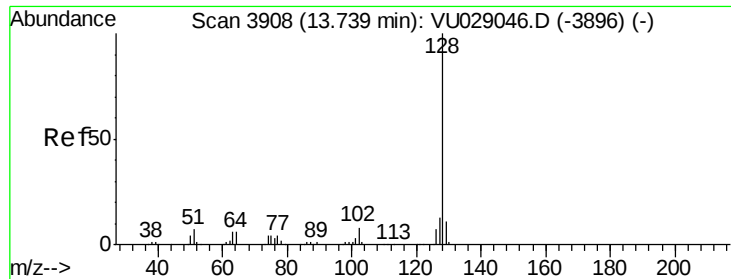
#68
 1,2,4-trichlorobenzene
 Concen: 50.993 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU029059.D
 Acq: 07 Jan 2019 15:36

Tgt Ion:180 Resp: 85004
 Ion Ratio Lower Upper
 180 100
 182 96.2 77.4 116.0
 145 28.5 23.5 35.3



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





#69

Naphthalene

Concen: 51.284 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

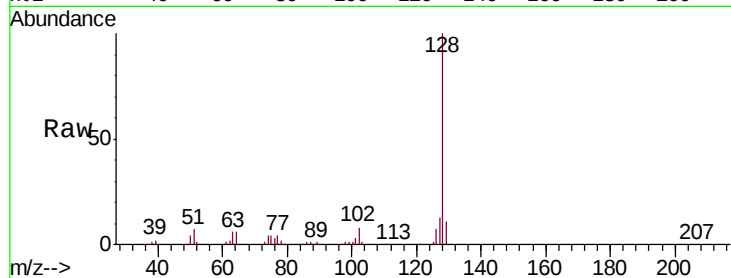
Tgt Ion:128 Resp: 296810

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

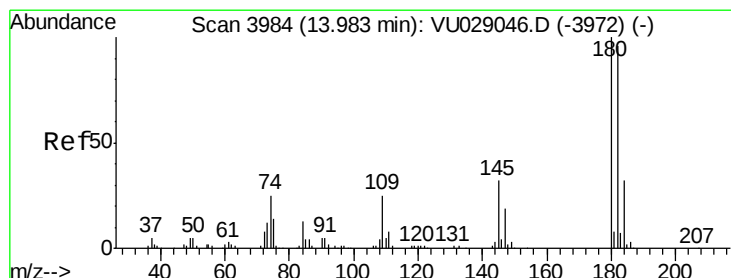
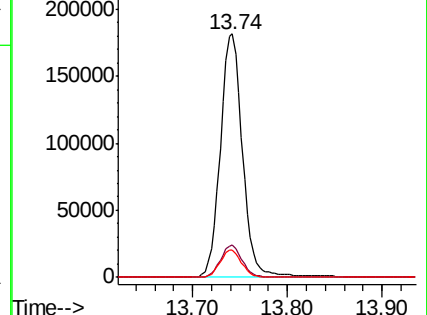
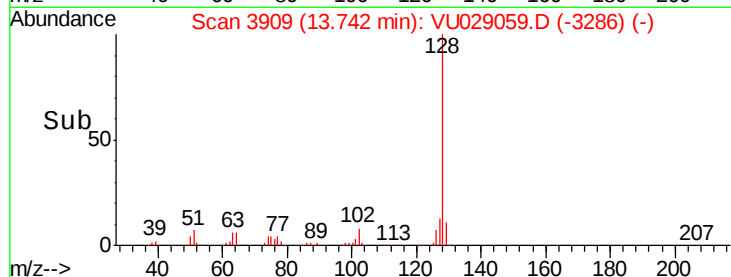
129 10.9 8.7 13.1



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: 51.237 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU029059.D

Acq: 07 Jan 2019 15:36

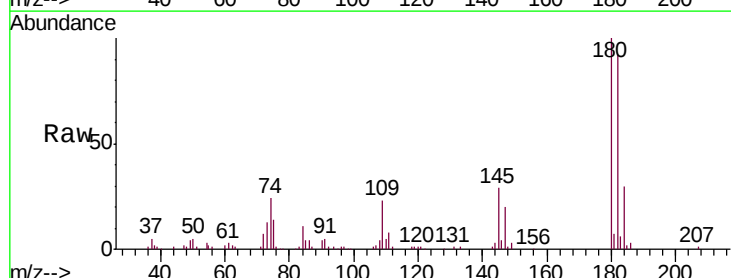
Tgt Ion:180 Resp: 92099

Ion Ratio Lower Upper

180 100

182 94.8 75.8 113.8

145 30.1 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

