

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU113018\
 Data File : VU028426.D
 Acq On : 30 Nov 2018 16:20
 Operator : MD/SY
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Quant Time: Dec 01 04:01:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM113018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 30 23:11:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	542339	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	512605	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	247658	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	233479	48.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.24%
7) Chloroethane-d5	1.68	69	185515	49.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.60%
11) 1,1-Dichloroethene-d2	2.27	63	427221	49.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.02%
21) 2-Butanone-d5	4.17	46	393298	98.76	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.76%
24) Chloroform-d	4.65	84	387849	49.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.10%
26) 1,2-Dichloroethane-d4	5.31	65	253305	47.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.04%
32) Benzene-d6	5.34	84	803764	50.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.72%
36) 1,2-Dichloropropane-d6	6.33	67	288761	50.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.30%
41) Toluene-d8	7.56	98	713126	49.31	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.62%
43) trans-1,3-Dichloropropene-	7.85	79	126779	48.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.52%
47) 2-Hexanone-d5	8.31	63	279443	100.48	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.48%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	362447	49.24	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.48%
64) 1,2-Dichlorobenzene-d4	11.86	152	248545	49.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	236924	48.857 ug/L	99
3) Chloromethane	1.33	50	343419	49.013 ug/L	99
5) Vinyl chloride	1.40	62	288853	48.201 ug/L	99
6) Bromomethane	1.63	94	92273	54.702 ug/L	100
8) Chloroethane	1.70	64	163525	48.606 ug/L	100
9) Trichlorofluoromethane	1.89	101	301235	49.357 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	181261	51.162 ug/L	98
12) 1,1-Dichloroethene	2.28	96	176735	51.640 ug/L	89
13) Acetone	2.32	43	288735	69.698 ug/L	98
14) Carbon disulfide	2.48	76	625739	48.292 ug/L	100
15) Methyl Acetate	2.61	43	293504	47.888 ug/L	100
16) Methylene chloride	2.70	84	217750	49.148 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	194336	50.104 ug/L	100
18) Methyl tert-butyl Ether	3.00	73	664861	49.329 ug/L	99
19) 1,1-Dichloroethane	3.45	63	407542	48.642 ug/L	97
20) cis-1,2-Dichloroethene	4.22	96	219441	49.192 ug/L	99
22) 2-Butanone	4.26	43	430337	82.980 ug/L	98

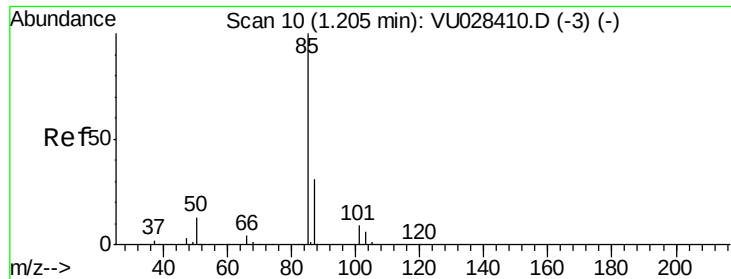
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU113018\
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 QLast Update : Fri Nov 30 23:11:27 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	97054	49.732	ug/L	95
25) Chloroform	4.67	83	370485	48.295	ug/L	98
27) 1,2-Dichloroethane	5.40	62	308272	48.543	ug/L	99
29) Cyclohexane	5.00	56	416333	50.045	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	298206	49.147	ug/L	100
31) Carbon tetrachloride	5.13	117	236308	48.354	ug/L	99
33) Benzene	5.39	78	873450	49.604	ug/L	100
34) Trichloroethene	6.19	95	211714	50.284	ug/L	98
35) Methylcyclohexane	6.41	83	367924	50.200	ug/L	99
37) 1,2-Dichloropropane	6.43	63	253205	48.498	ug/L	100
38) Bromodichloromethane	6.76	83	272191	46.985	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	365338	49.283	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	791111	95.814	ug/L	100
42) Toluene	7.64	91	889248	49.623	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	331119	48.747	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	204678	50.413	ug/L	99
46) Tetrachloroethene	8.22	164	146872	49.605	ug/L	95
48) 2-Hexanone	8.36	43	615943	88.790	ug/L	99
49) Dibromochloromethane	8.48	129	191964	46.223	ug/L	97
50) 1,2-Dibromoethane	8.58	107	211827	48.539	ug/L	97
51) Chlorobenzene	9.12	112	532385	49.803	ug/L	99
52) Ethylbenzene	9.25	91	991229	50.074	ug/L	99
53) m,p-Xylene	9.37	106	358655	50.799	ug/L	95
54) o-xylene	9.78	106	349607	49.993	ug/L	97
55) Styrene	9.79	104	596060	49.749	ug/L	99
56) Isopropylbenzene	10.16	105	921382	49.944	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	362858	47.911	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	286440	48.333	ug/L	100
61) Bromoform	9.96	173	137585	45.163	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	401877	49.788	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	402556	49.524	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	394538	49.244	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	75616	46.849	ug/L	97
67) 1,3,5-Trichlorobenzene	12.89	180	301723	50.812	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	283085	51.187	ug/L	98
69) Naphthalene	13.74	128	957992	49.678	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	280641	50.378	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 48.857 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

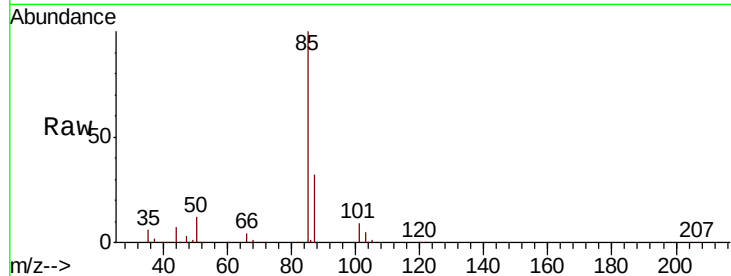
VSTD05059

Tgt Ion: 85 Resp: 236924

Ion Ratio Lower Upper

85 100

87 32.1 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU028410.D (-3) (-)

Ion 87.00 (86.70 to 87.70): VU028410.D (-3) (-)

1.21

250000

200000

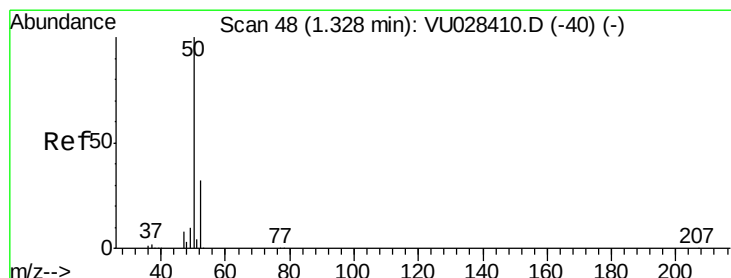
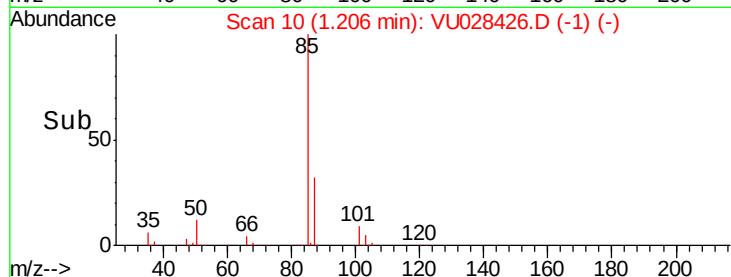
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 49.013 ug/L

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028426.D

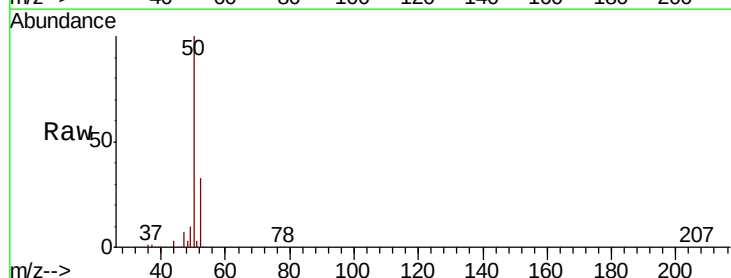
Acq: 30 Nov 2018 16:20

Tgt Ion: 50 Resp: 343419

Ion Ratio Lower Upper

50 100

52 32.6 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU028410.D (-40) (-)

Ion 52.00 (51.70 to 52.70): VU028410.D (-40) (-)

1.33

400000

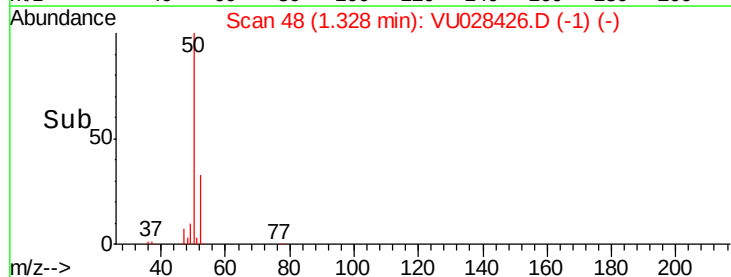
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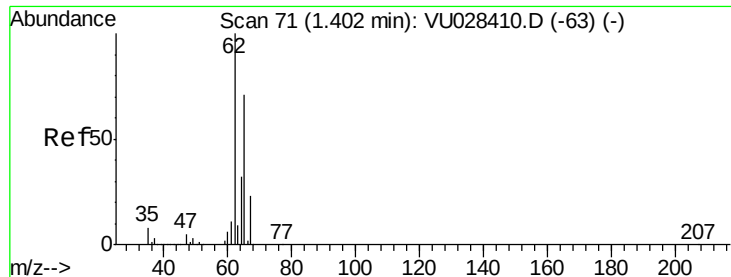
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 48.201 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

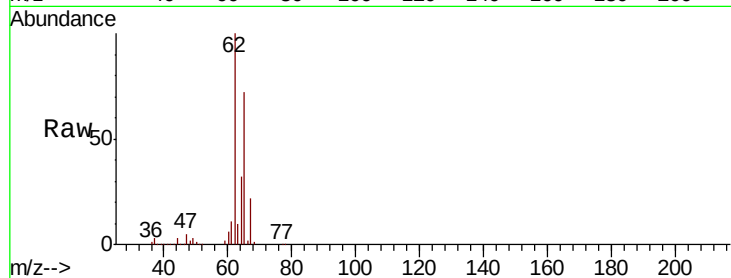
VSTD05059

Tgt Ion: 62 Resp: 288853

Ion Ratio Lower Upper

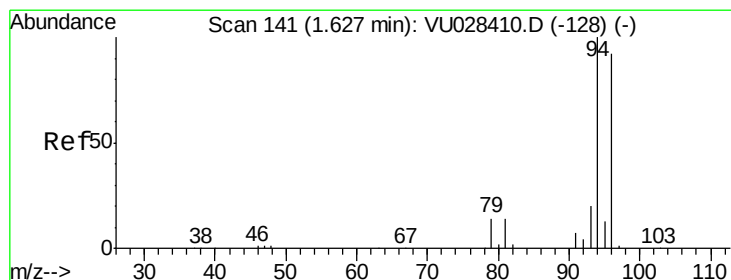
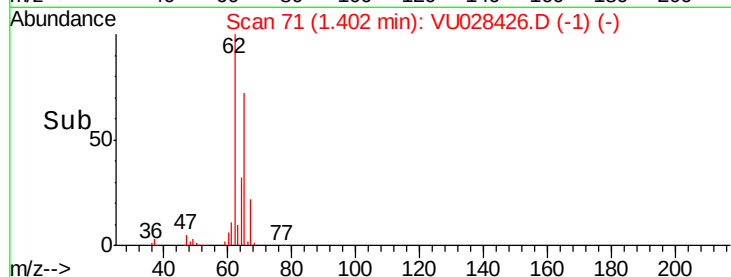
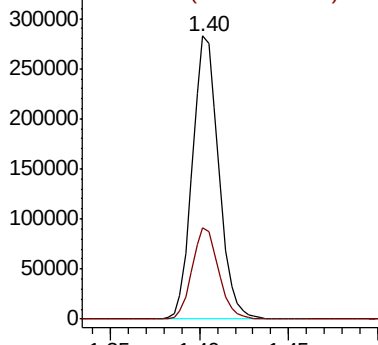
62 100

64 32.4 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 54.702 ug/L

RT: 1.63 min Scan# 141

Delta R.T. 0.00 min

Lab File: VU028426.D

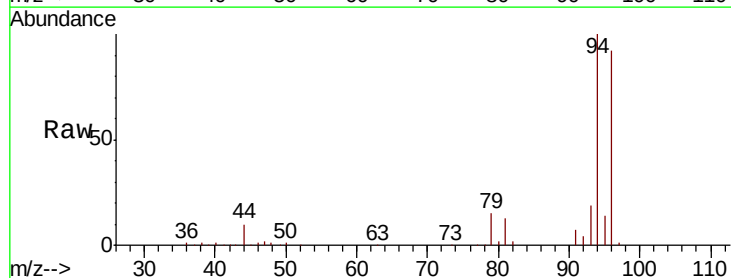
Acq: 30 Nov 2018 16:20

Tgt Ion: 94 Resp: 92273

Ion Ratio Lower Upper

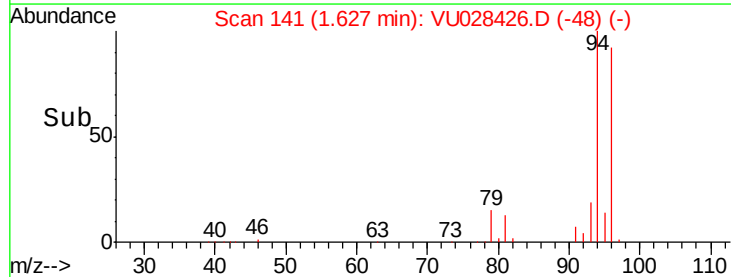
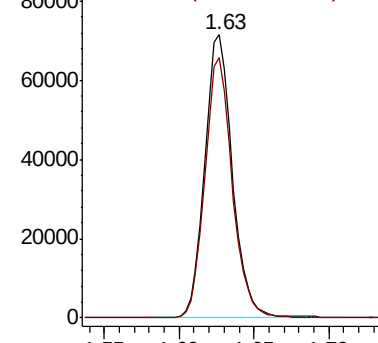
94 100

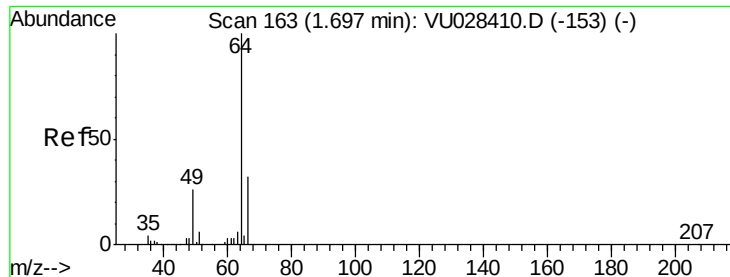
96 91.8 64.5 119.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 48.606 ug/L

RT: 1.70 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

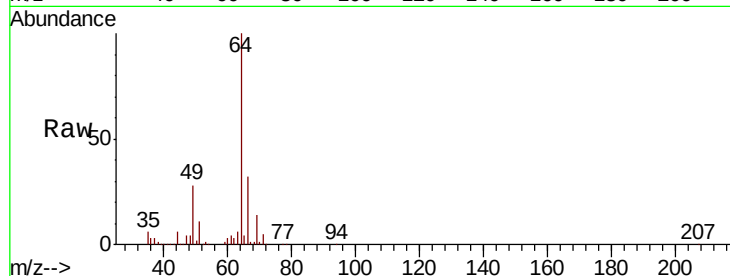
VSTD05059

Tgt Ion: 64 Resp: 163525

Ion Ratio Lower Upper

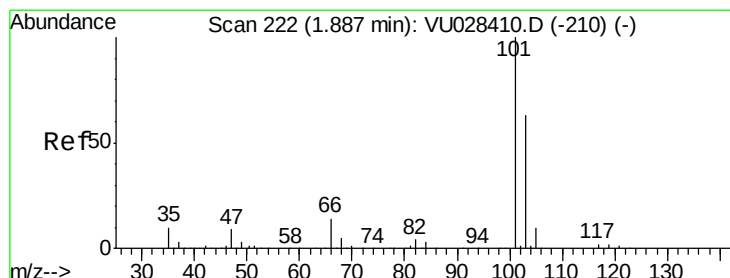
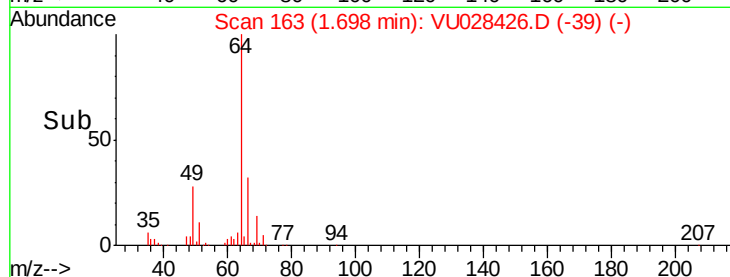
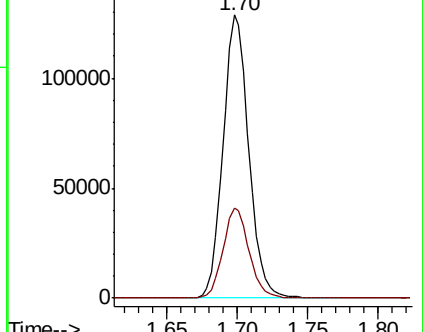
64 100

66 32.0 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU028410.D (-153) (-)

Ion 66.00 (65.70 to 66.70): VU028410.D (-153) (-)



#9

Trichlorofluoromethane

Concen: 49.357 ug/L

RT: 1.89 min Scan# 222

Delta R.T. 0.00 min

Lab File: VU028426.D

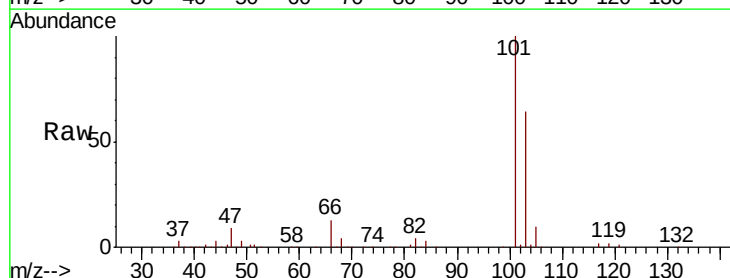
Acq: 30 Nov 2018 16:20

Tgt Ion: 101 Resp: 301235

Ion Ratio Lower Upper

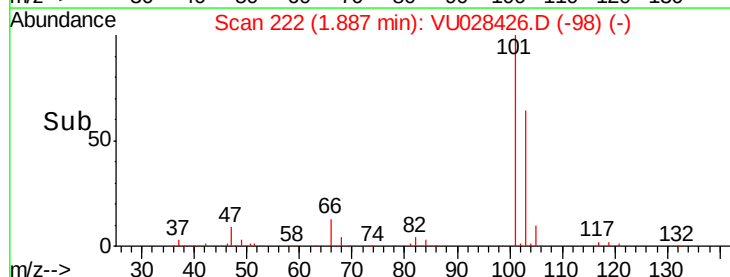
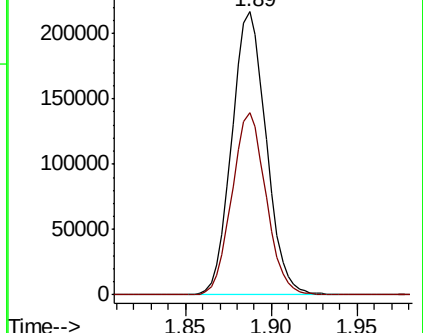
101 100

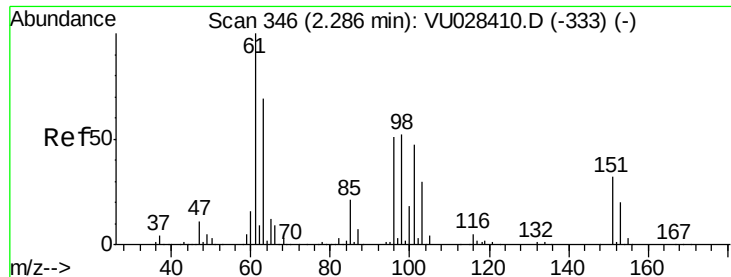
103 64.1 51.0 76.6



Abundance Ion 101.00 (100.70 to 101.70): VU028410.D (-210) (-)

Ion 103.00 (102.70 to 103.70): VU028410.D (-210) (-)





#10

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

Concen: 51.162 ug/L

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

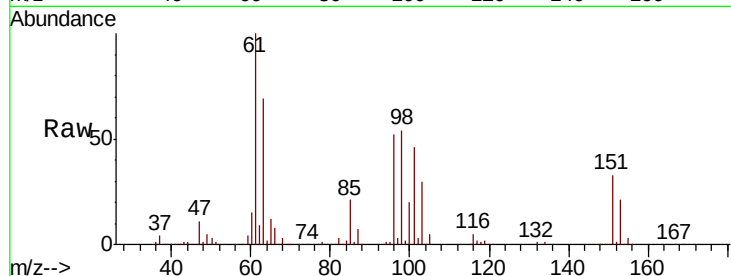
Tgt Ion: 101 Resp: 181261

Ion Ratio Lower Upper

101 100

85 44.5 36.5 54.7

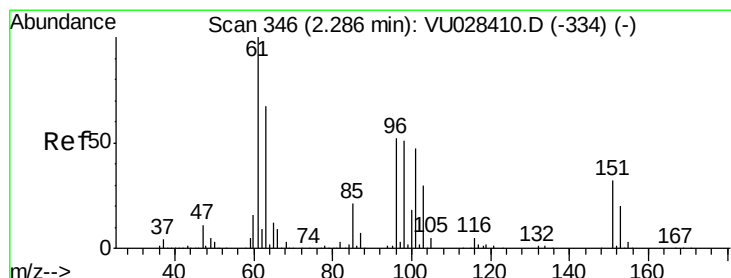
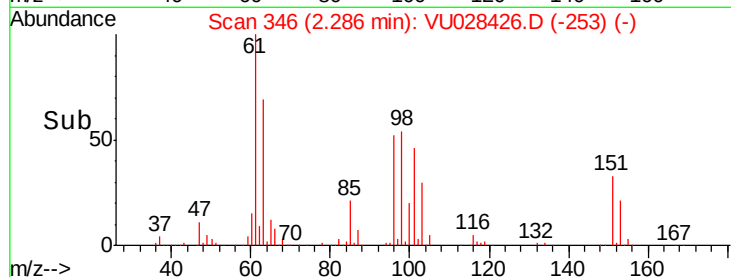
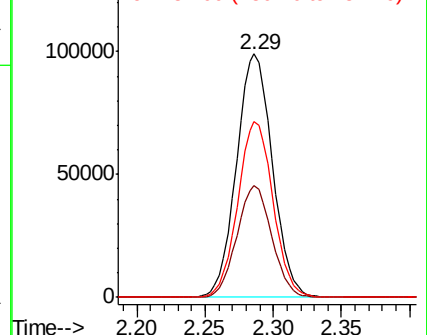
151 70.8 55.0 82.6



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: 51.640 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

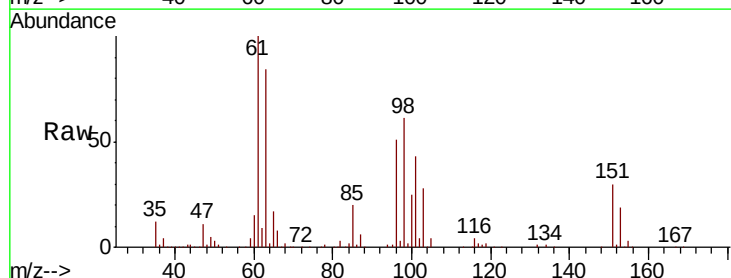
Tgt Ion: 96 Resp: 176735

Ion Ratio Lower Upper

96 100

61 197.4 136.2 252.9

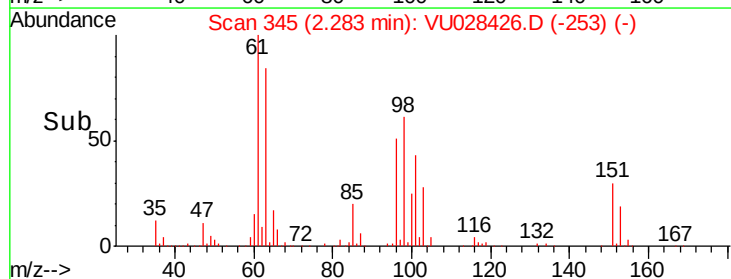
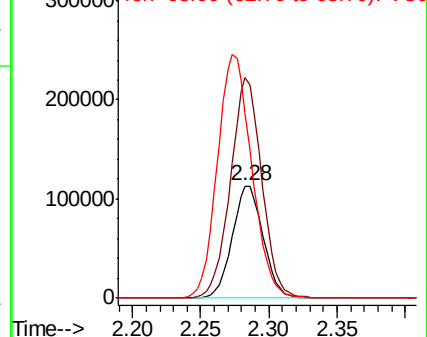
63 165.2 95.5 177.4

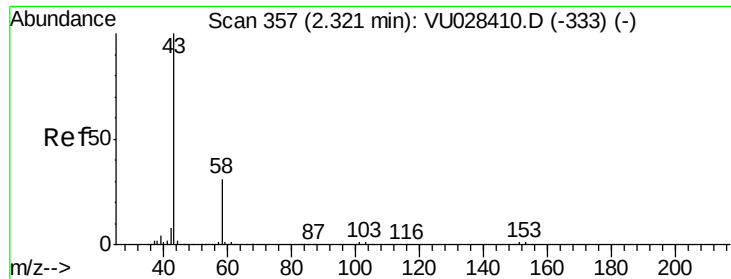


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 69.698 ug/L

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

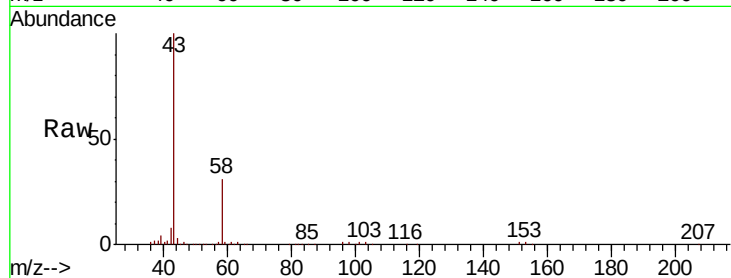
VSTD05059

Tgt Ion: 43 Resp: 288735

Ion Ratio Lower Upper

43 100

58 30.2 0.0 63.0



Abundance Ion 43.00 (42.70 to 43.70): VU028410.D (-333) (-)

Ion 58.00 (57.70 to 58.70): VU028410.D (-333) (-)

2.32

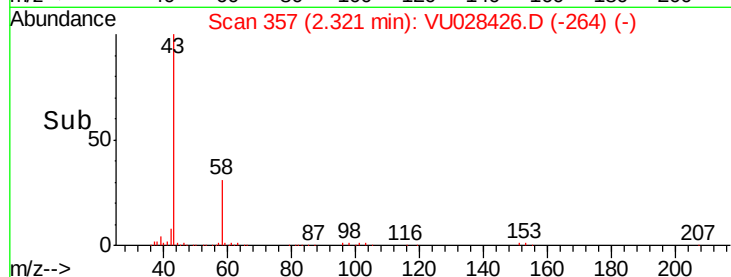
150000

100000

50000

0

Time-->



Abundance Ion 43.00 (42.70 to 43.70): VU028426.D (-264) (-)

Ion 58.00 (57.70 to 58.70): VU028426.D (-264) (-)

2.32

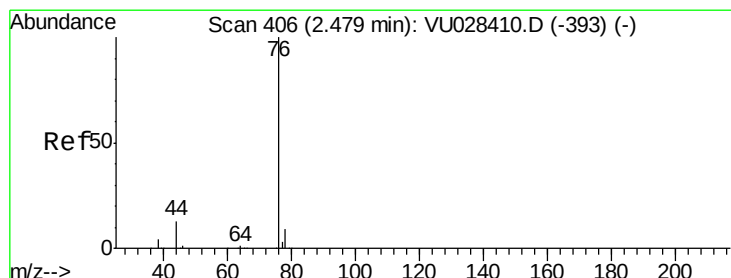
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 48.292 ug/L

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU028426.D

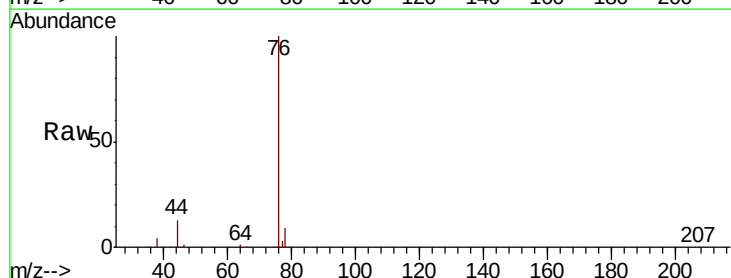
Acq: 30 Nov 2018 16:20

Tgt Ion: 76 Resp: 625739

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU028410.D (-393) (-)

Ion 78.00 (77.70 to 78.70): VU028410.D (-393) (-)

2.48

400000

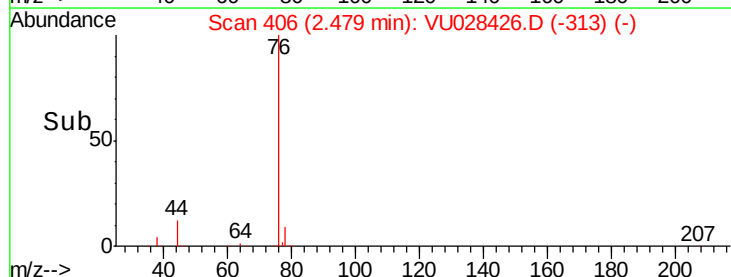
300000

200000

100000

0

Time-->



Abundance Ion 76.00 (75.70 to 76.70): VU028426.D (-313) (-)

Ion 78.00 (77.70 to 78.70): VU028426.D (-313) (-)

2.48

400000

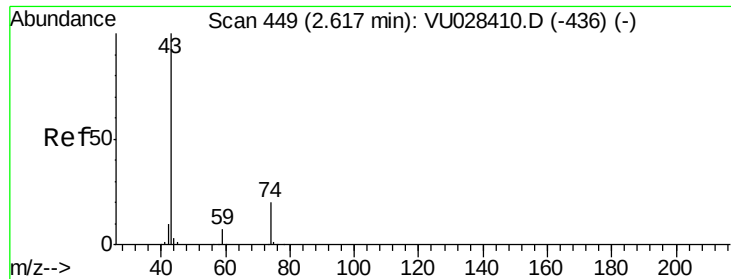
300000

200000

100000

0

Time-->



#15

Methyl Acetate

Concen: 47.888 ug/L

RT: 2.61 min Scan# 448

Delta R.T. -0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

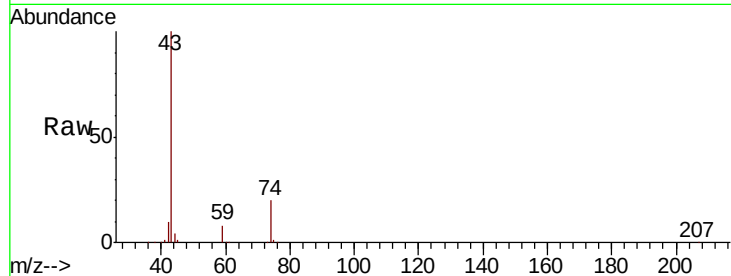
VSTD05059

Tgt Ion: 43 Resp: 293504

Ion Ratio Lower Upper

43 100

74 20.2 16.2 24.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

200000

150000

100000

50000

0

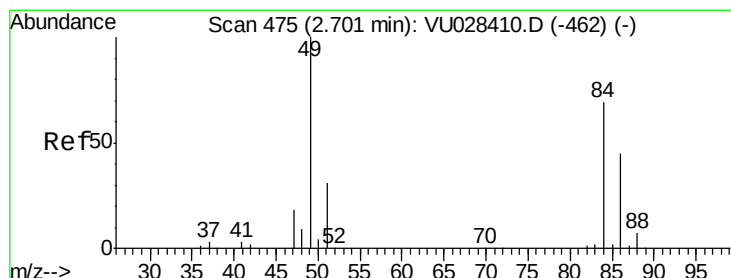
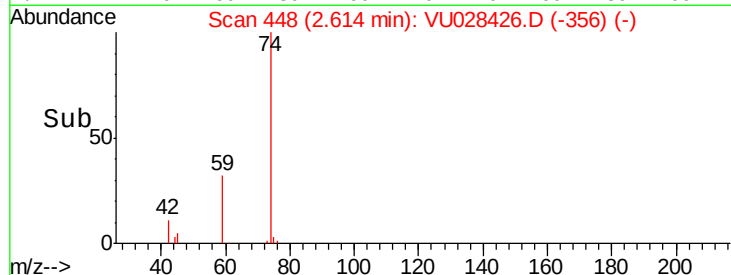
2.55

2.60

2.65

2.70

Time-->



#16

Methylene chloride

Concen: 49.148 ug/L

RT: 2.70 min Scan# 475

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

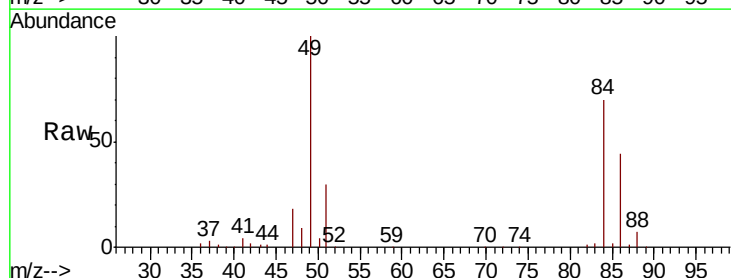
Tgt Ion: 84 Resp: 217750

Ion Ratio Lower Upper

84 100

86 63.8 45.6 84.8

49 143.8 101.3 188.1



Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

200000

150000

100000

50000

0

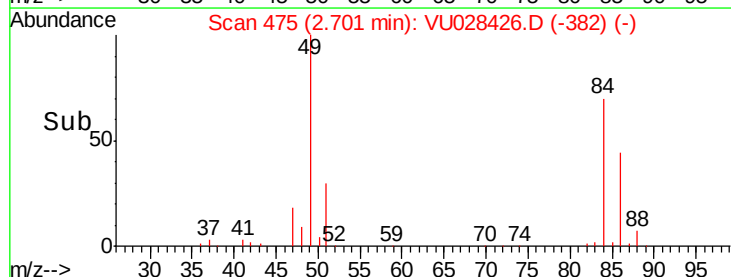
2.65

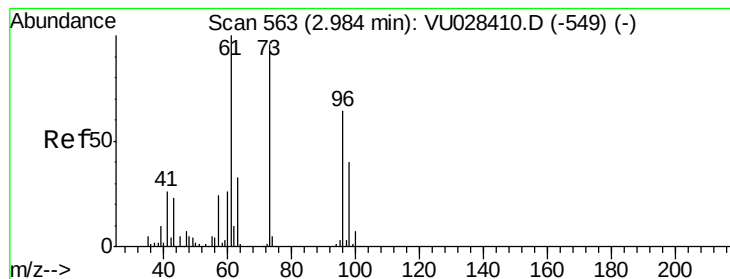
2.70

2.75

2.80

Time-->





#17

trans-1,2-Dichloroethene

Concen: 50.104 ug/L

RT: 2.98 min Scan# 563

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

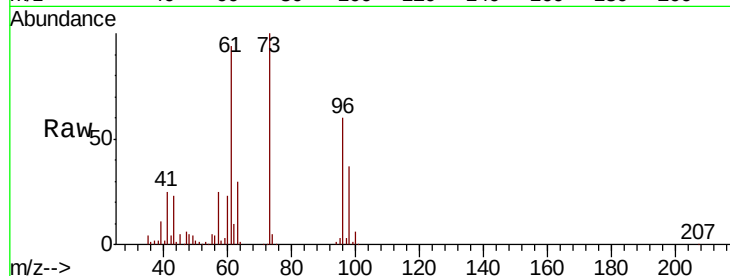
Tgt Ion: 96 Resp: 194336

Ion Ratio Lower Upper

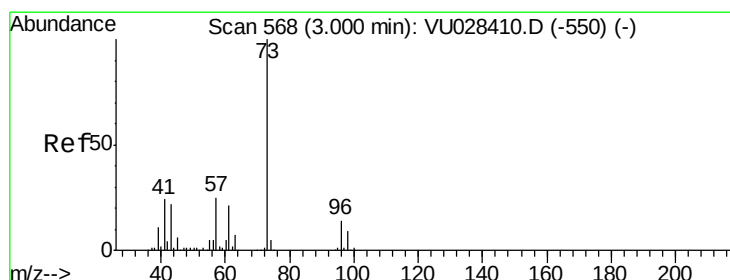
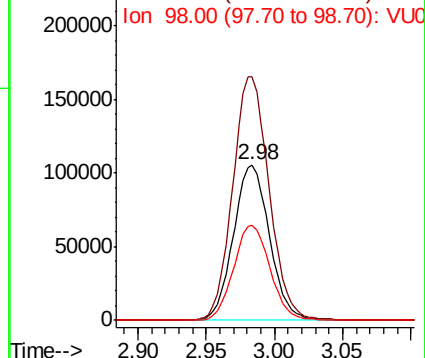
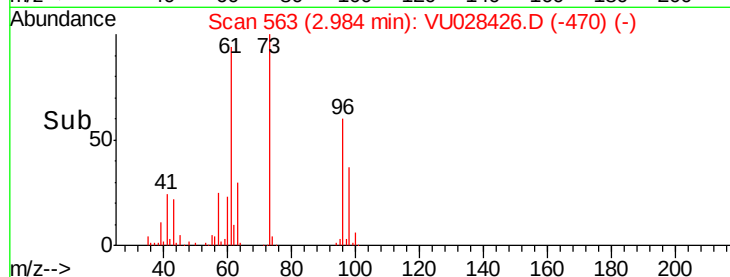
96 100

61 156.3 109.5 203.3

98 61.1 43.3 80.5



Abundance Ion 96.00 (95.70 to 96.70): VU028426.D (-470) (-)



#18

Methyl tert-butyl Ether

Concen: 49.329 ug/L

RT: 3.00 min Scan# 567

Delta R.T. -0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

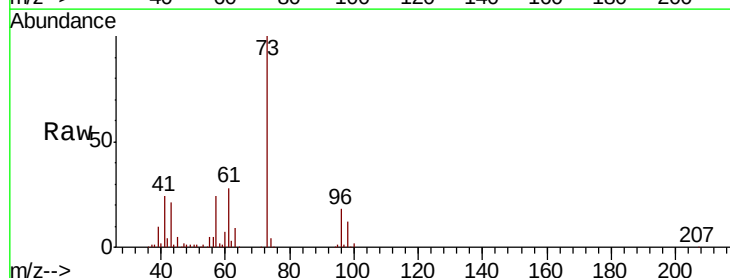
Tgt Ion: 73 Resp: 664861

Ion Ratio Lower Upper

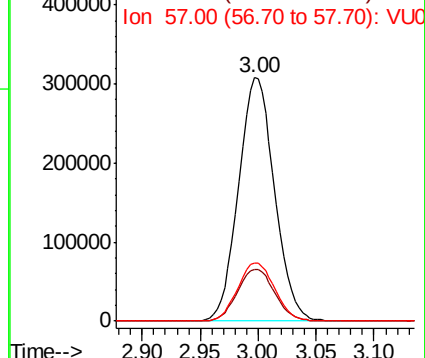
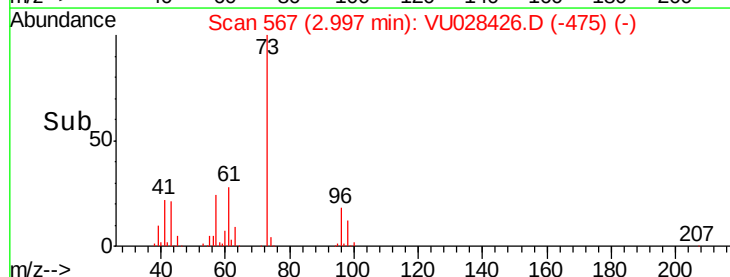
73 100

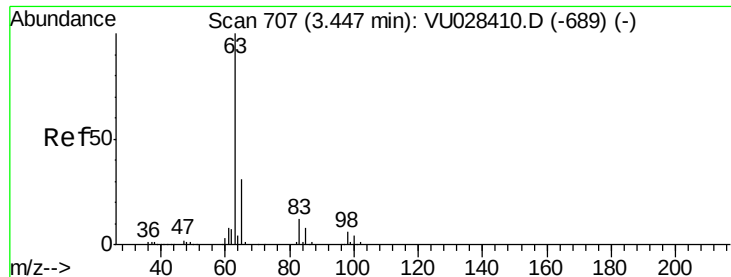
43 21.8 17.9 26.9

57 24.6 19.7 29.5



Abundance Ion 73.00 (72.70 to 73.70): VU028426.D (-475) (-)

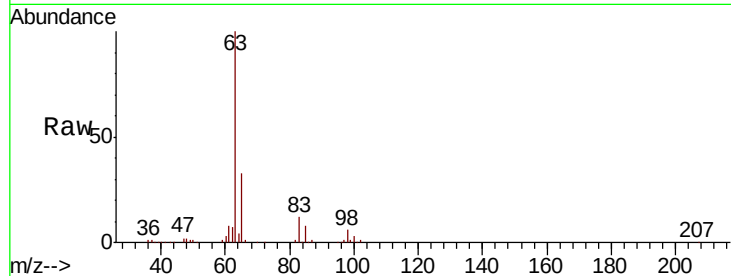




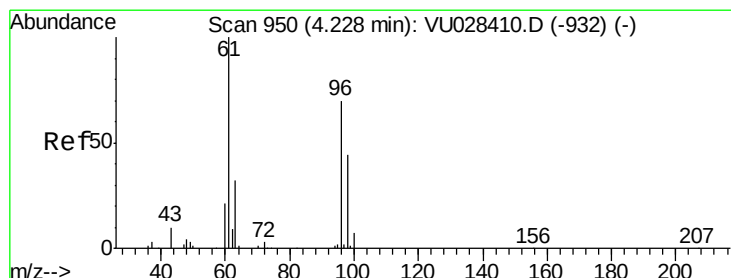
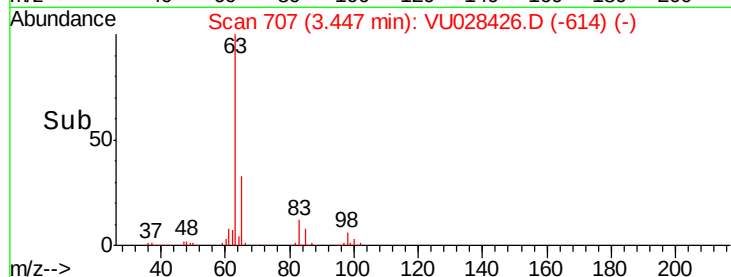
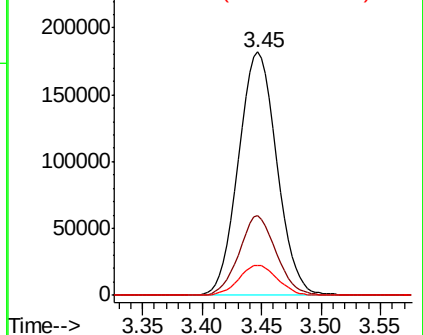
#19
 1,1-Dichloroethane
 Concen: 48.642 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VU028426.D
 Acq: 30 Nov 2018 16:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Tgt Ion: 63 Resp: 407542
 Ion Ratio Lower Upper
 63 100
 65 32.8 21.6 40.0
 83 12.4 8.5 15.7

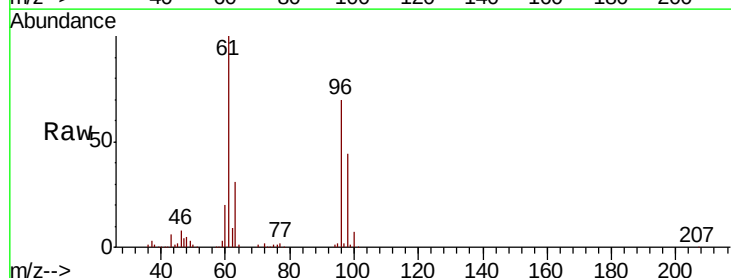


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

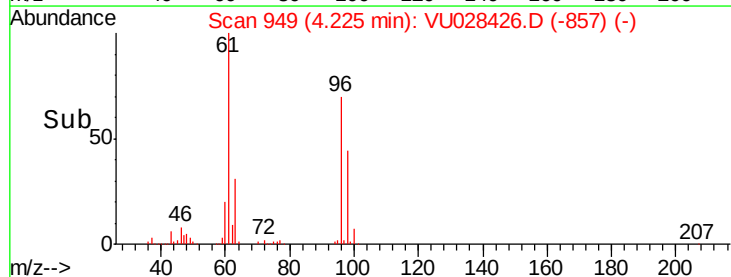
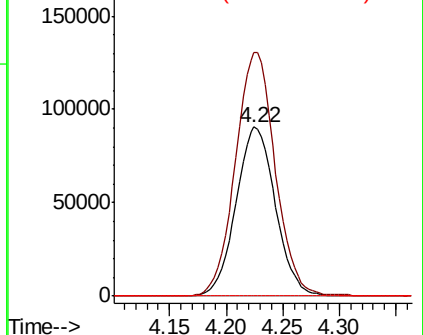


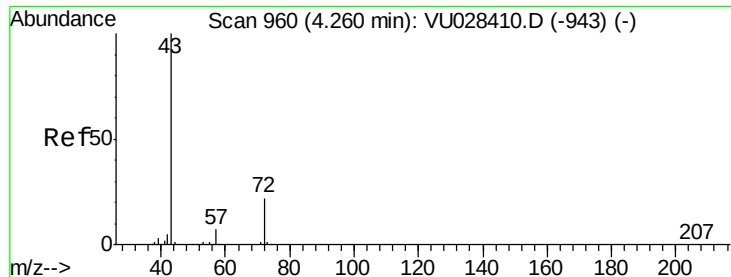
#20
 cis-1,2-Dichloroethene
 Concen: 49.192 ug/L
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU028426.D
 Acq: 30 Nov 2018 16:20

Tgt Ion: 96 Resp: 219441
 Ion Ratio Lower Upper
 96 100
 61 143.9 99.8 185.3
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 82.980 ug/L

RT: 4.26 min Scan# 960

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

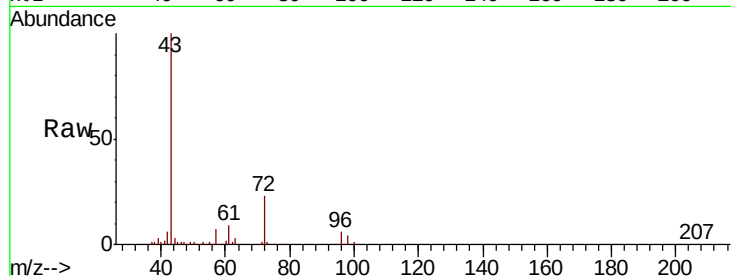
VSTD05059

Tgt Ion: 43 Resp: 430337

Ion Ratio Lower Upper

43 100

72 23.5 11.3 33.9



Abundance Ion 43.00 (42.70 to 43.70): VU028410.D (-943) (-)

Ion 72.00 (71.70 to 72.70): VU028410.D (-943) (-)

4.26

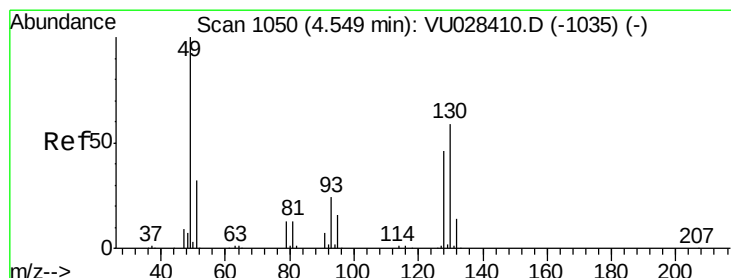
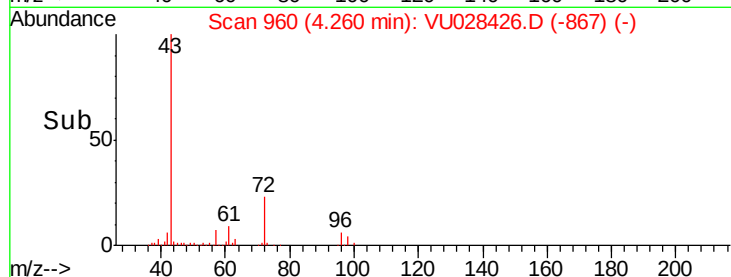
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 49.732 ug/L

RT: 4.55 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Tgt Ion: 128 Resp: 97054

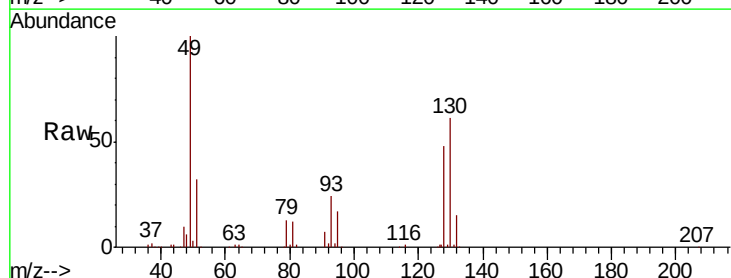
Ion Ratio Lower Upper

128 100

49 208.3 152.5 283.3

130 126.2 89.8 166.8

51 65.9 56.2 84.2



Abundance Ion 128.00 (127.70 to 128.70): VU028410.D (-1035) (-)

Ion 49.00 (48.70 to 49.70): VU028410.D (-1035) (-)

Ion 130.00 (129.70 to 130.70): VU028410.D (-1035) (-)

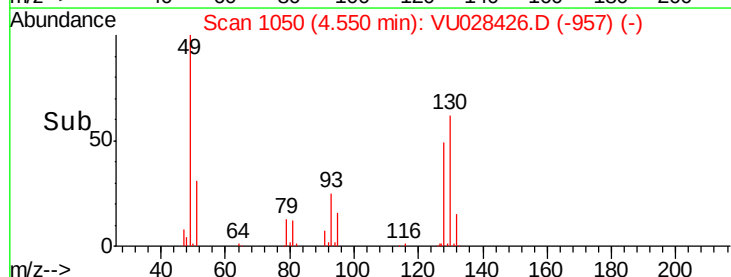
Ion 51.00 (50.70 to 51.70): VU028410.D (-1035) (-)

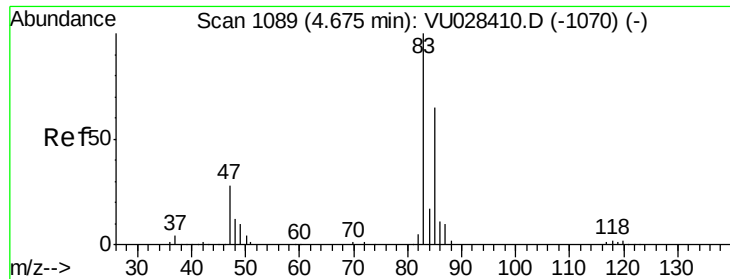
100000

50000

0

Time-->

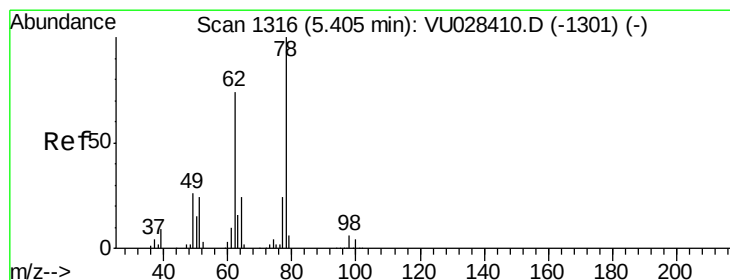
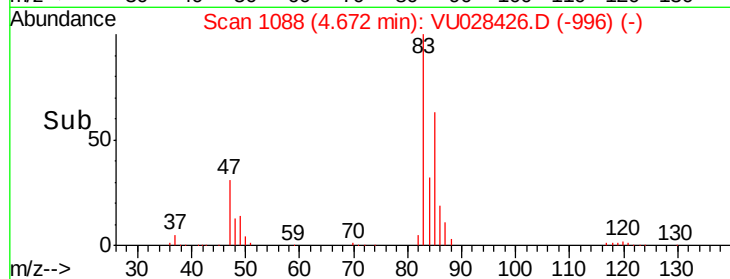
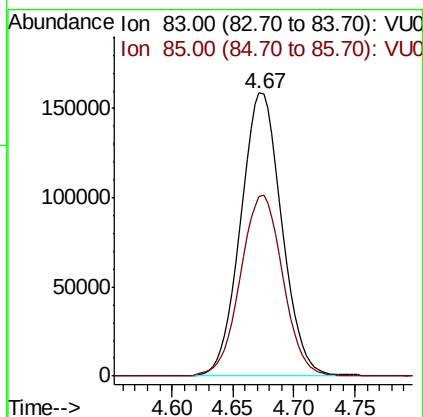
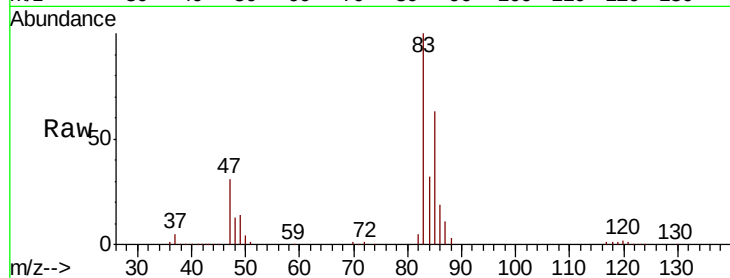




#25
Chloroform
Concen: 48.295 ug/L
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU028426.D
Acq: 30 Nov 2018 16:20

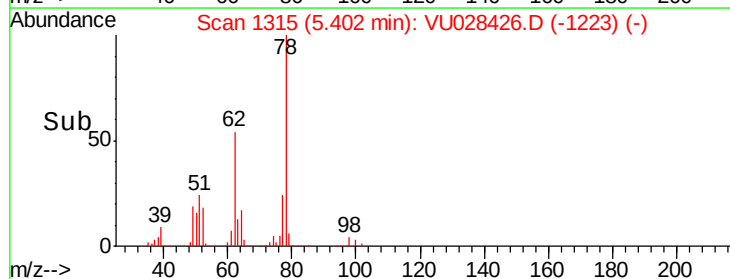
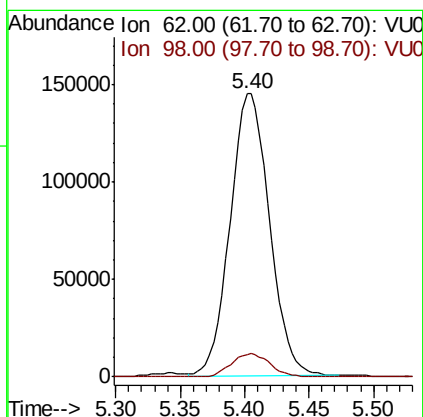
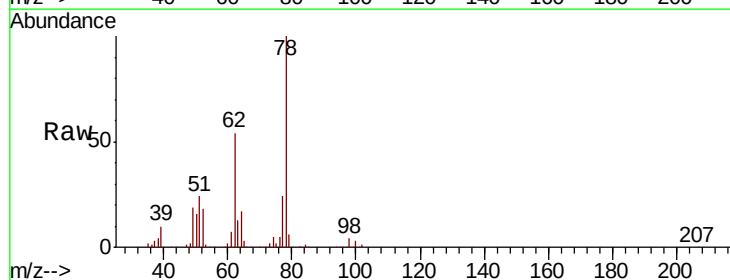
Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

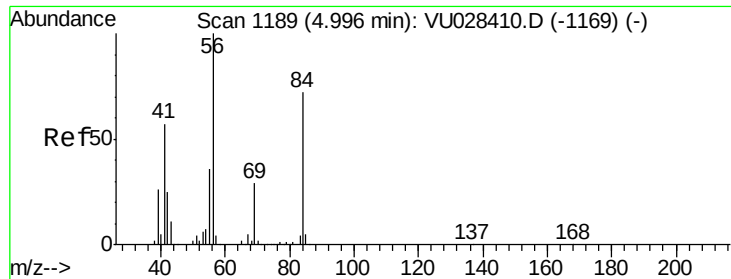
Tgt Ion: 83 Resp: 370485
Ion Ratio Lower Upper
83 100
85 63.3 45.7 84.9



#27
1,2-Dichloroethane
Concen: 48.543 ug/L
RT: 5.40 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VU028426.D
Acq: 30 Nov 2018 16:20

Tgt Ion: 62 Resp: 308272
Ion Ratio Lower Upper
62 100
98 8.0 6.7 10.1

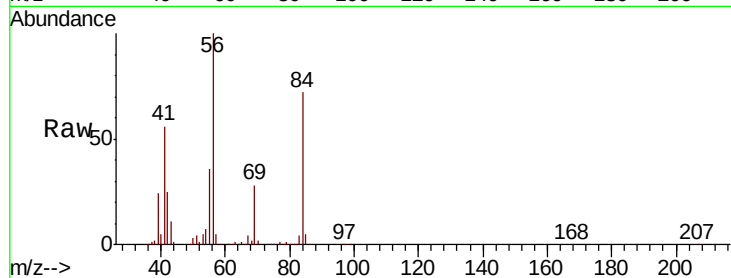




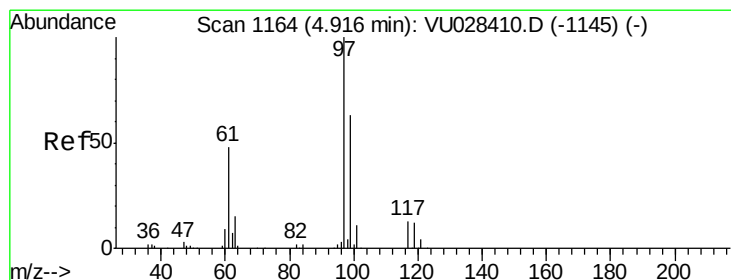
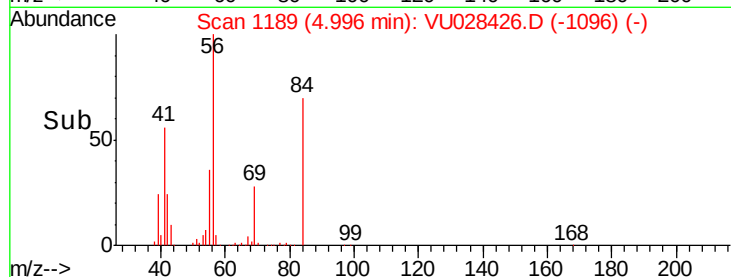
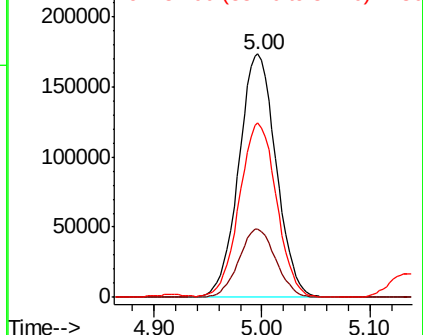
#29
Cyclohexane
Concen: 50.045 ug/L
RT: 5.00 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU028426.D
Acq: 30 Nov 2018 16:20

Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

Tgt Ion: 56 Resp: 416333
Ion Ratio Lower Upper
56 100
69 27.8 22.5 33.7
84 71.7 56.6 85.0

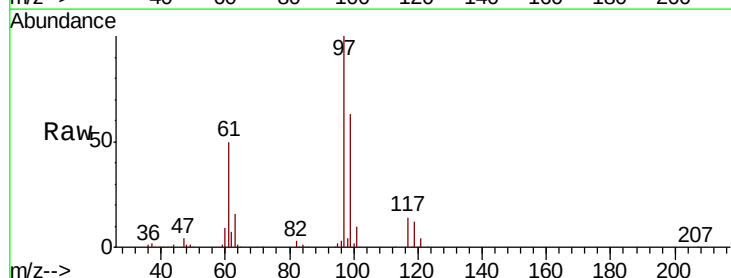


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

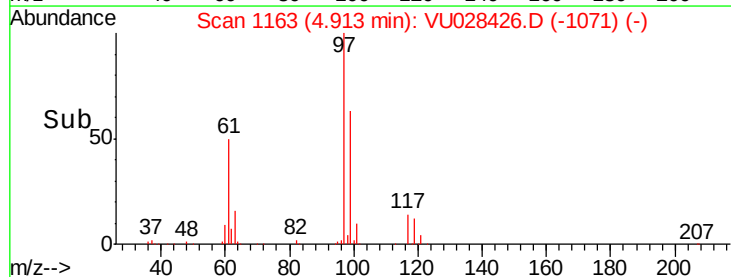
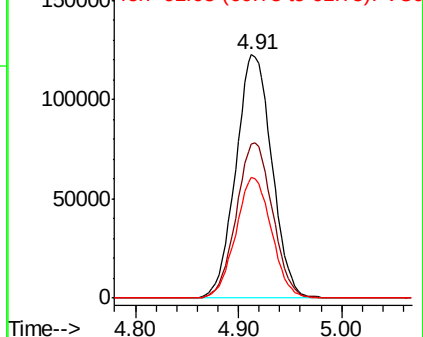


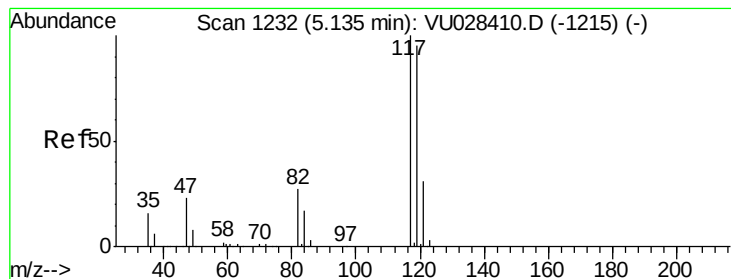
#30
1,1,1-Trichloroethane
Concen: 49.147 ug/L
RT: 4.91 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VU028426.D
Acq: 30 Nov 2018 16:20

Tgt Ion: 97 Resp: 298206
Ion Ratio Lower Upper
97 100
99 64.1 51.4 77.0
61 49.2 39.3 58.9



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: 48.354 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

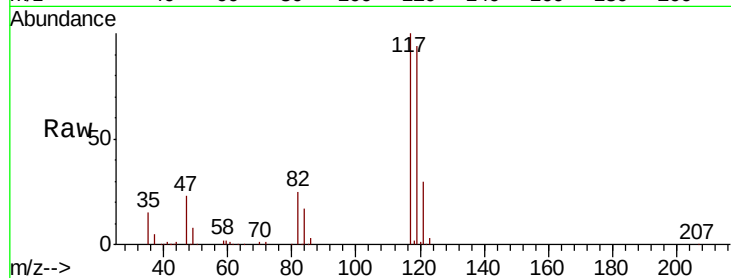
VSTD05059

Tgt Ion:117 Resp: 236308

Ion Ratio Lower Upper

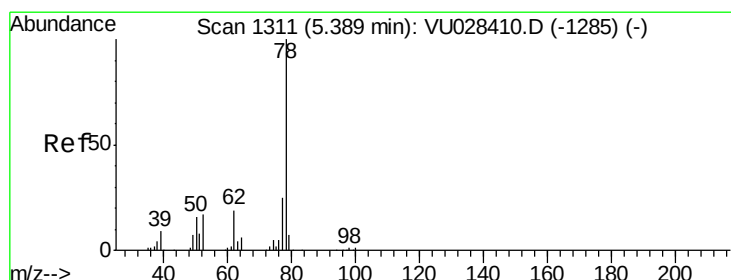
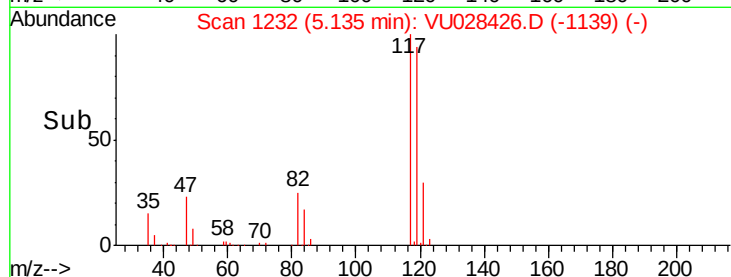
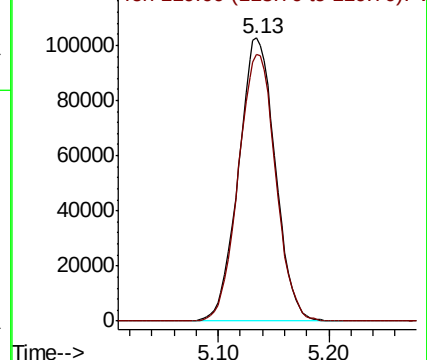
117 100

119 95.6 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 49.604 ug/L

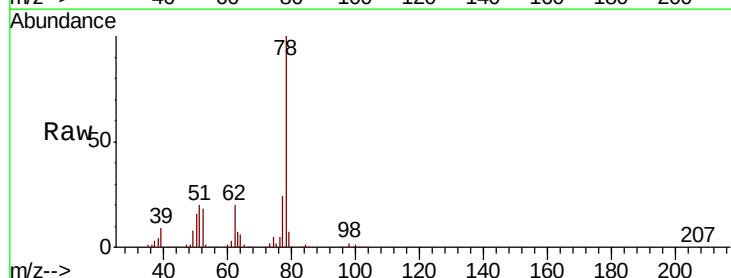
RT: 5.39 min Scan# 1311

Delta R.T. 0.00 min

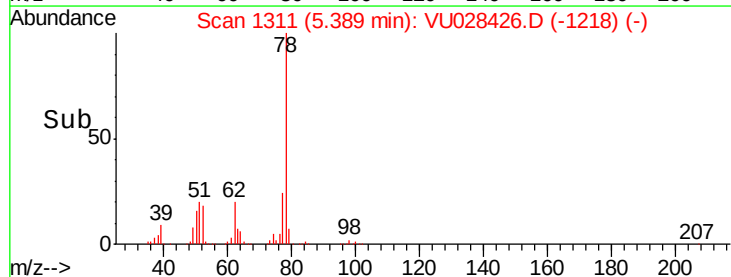
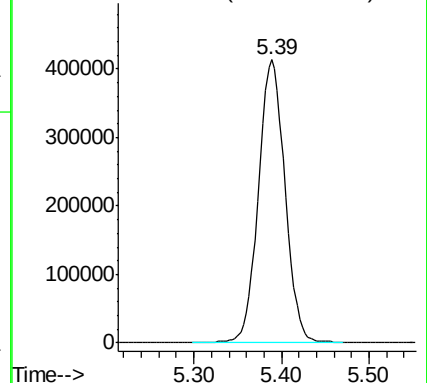
Lab File: VU028426.D

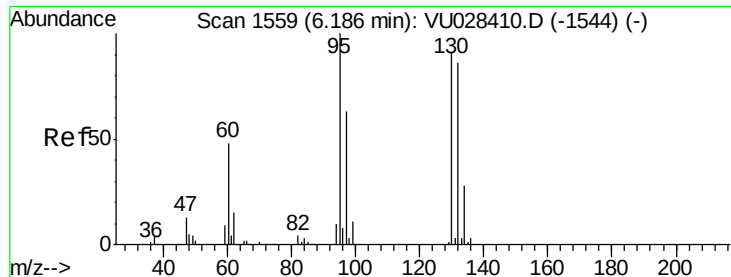
Acq: 30 Nov 2018 16:20

Tgt Ion: 78 Resp: 873450



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.284 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

Tgt Ion: 95 Resp: 211714

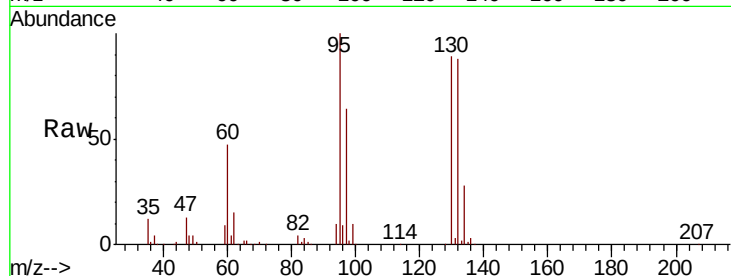
Ion Ratio Lower Upper

95 100

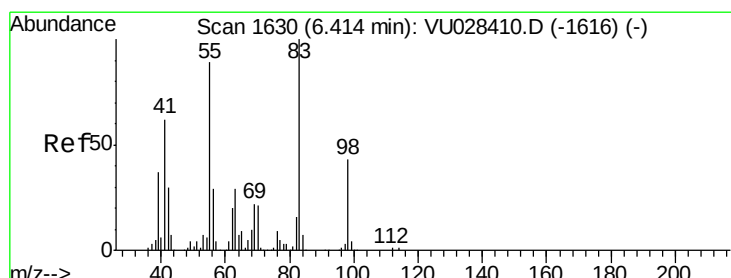
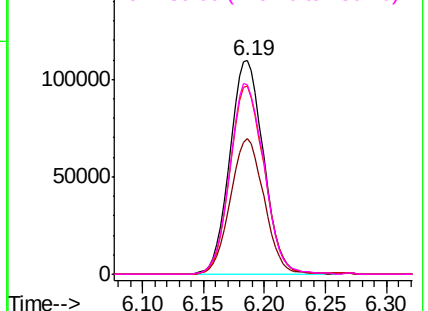
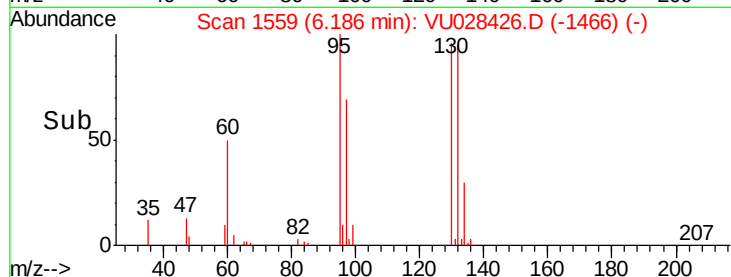
97 63.6 44.1 81.9

132 87.9 60.2 111.8

130 88.7 63.5 117.9



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: 50.200 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

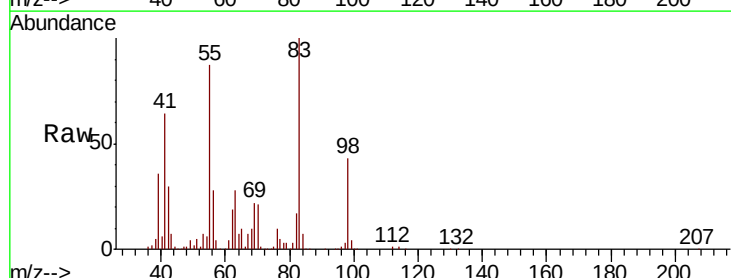
Tgt Ion: 83 Resp: 367924

Ion Ratio Lower Upper

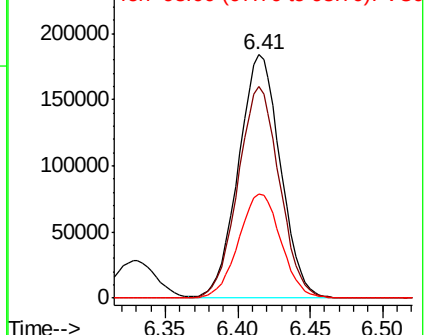
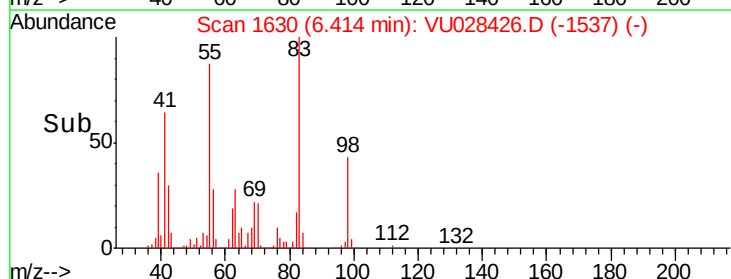
83 100

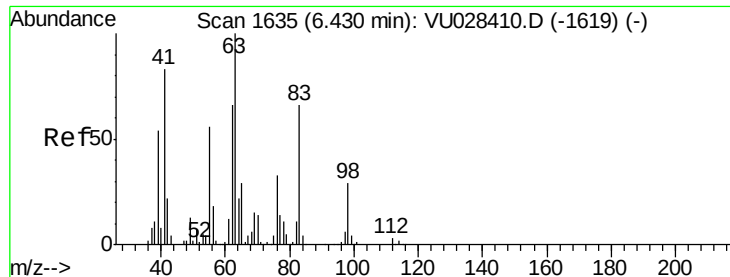
55 86.5 70.5 105.7

98 43.5 34.6 52.0



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

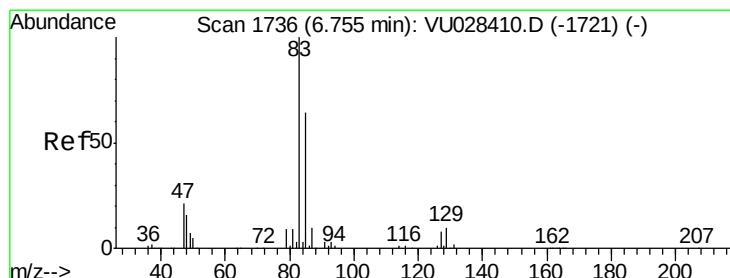
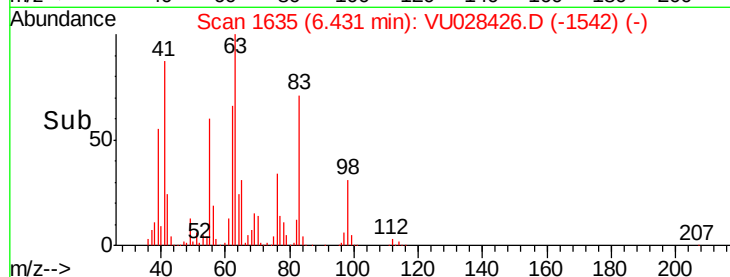
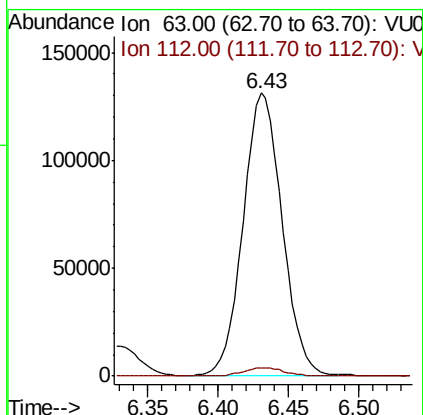
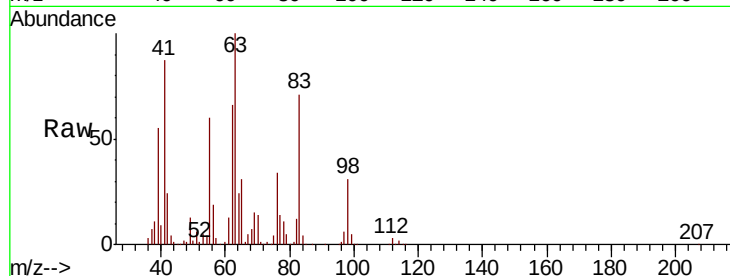




#37
 1,2-Dichloropropane
 Concen: 48.498 ug/L
 RT: 6.43 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: VU028426.D
 Acq: 30 Nov 2018 16:20

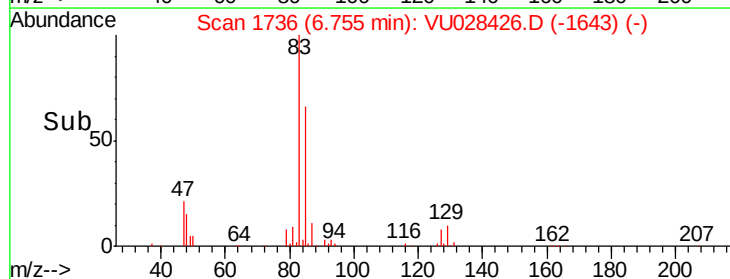
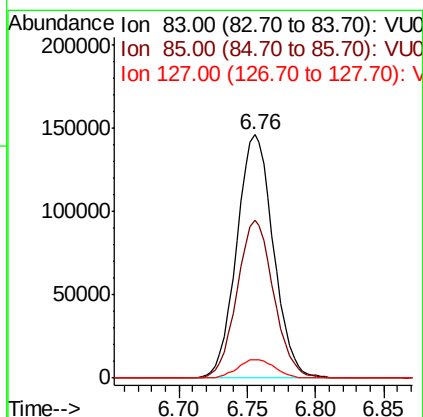
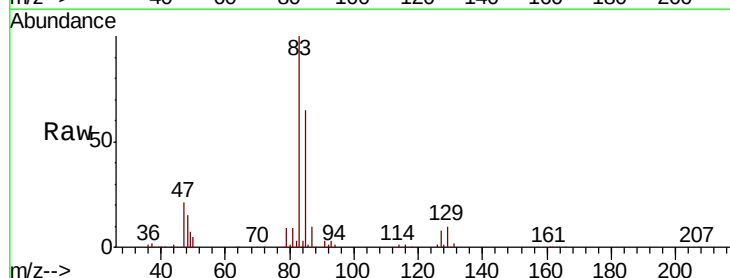
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

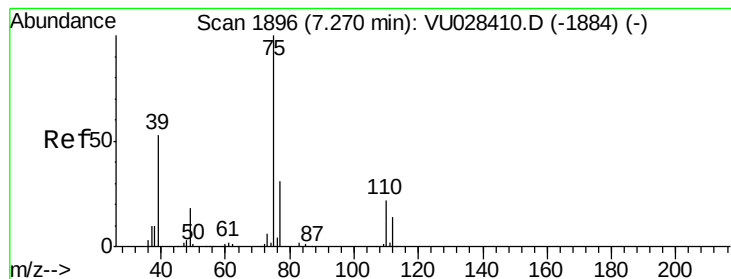
Tgt Ion: 63 Resp: 253205
 Ion Ratio Lower Upper
 63 100
 112 3.2 2.6 3.8



#38
 Bromodichloromethane
 Concen: 46.985 ug/L
 RT: 6.76 min Scan# 1736
 Delta R.T. 0.00 min
 Lab File: VU028426.D
 Acq: 30 Nov 2018 16:20

Tgt Ion: 83 Resp: 272191
 Ion Ratio Lower Upper
 83 100
 85 64.9 44.9 83.3
 127 7.8 6.0 9.0



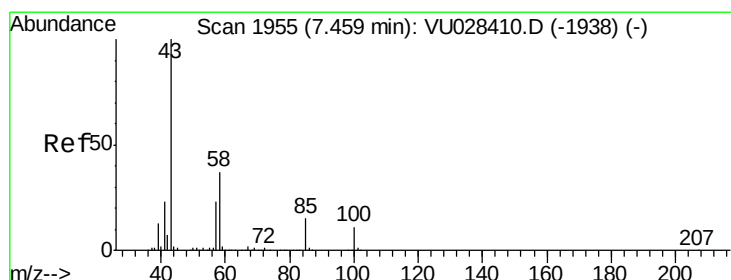
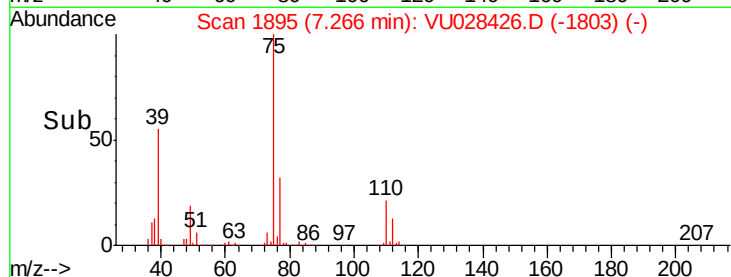
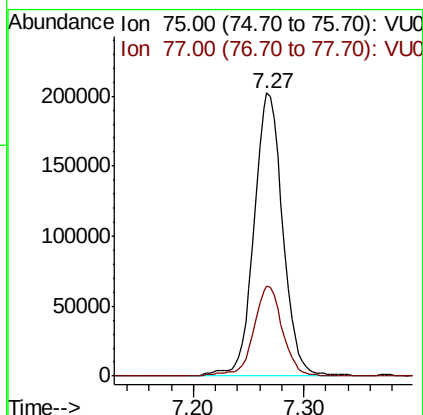
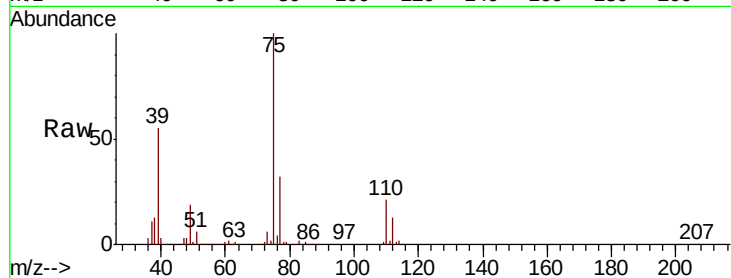


#39

cis-1,3-Dichloropropene
 Concen: 49.283 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. -0.00 min
 Lab File: VU028426.D
 Acq: 30 Nov 2018 16:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

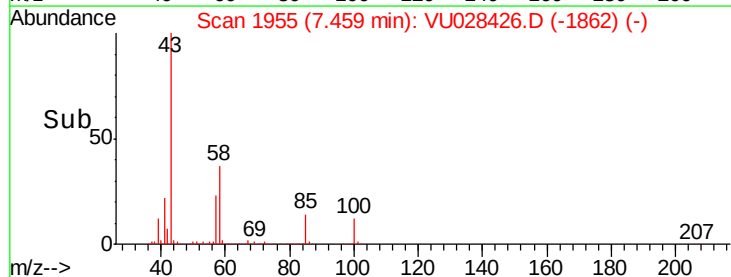
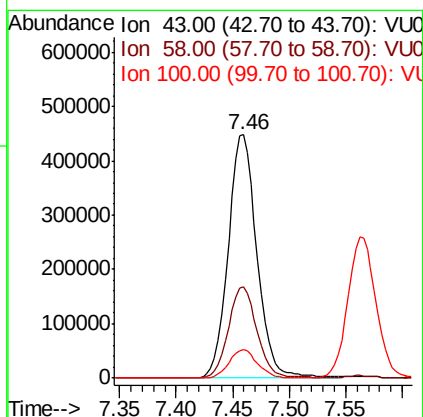
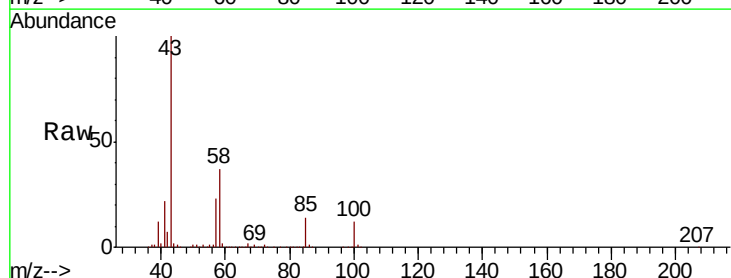
Tgt Ion: 75 Resp: 365338
 Ion Ratio Lower Upper
 75 100
 77 31.9 21.9 40.7

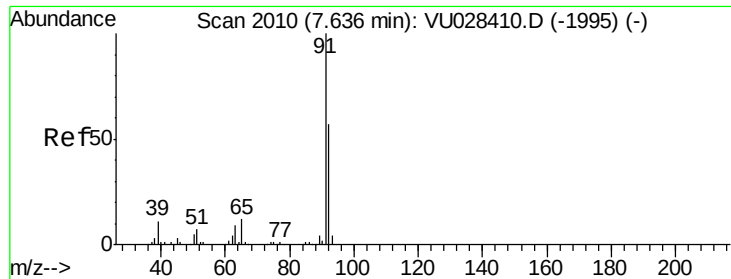


#40

4-Methyl-2-pentanone
 Concen: 95.814 ug/L
 RT: 7.46 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VU028426.D
 Acq: 30 Nov 2018 16:20

Tgt Ion: 43 Resp: 791111
 Ion Ratio Lower Upper
 43 100
 58 37.5 29.9 44.9
 100 11.5 8.7 13.1





#42

Toluene

Concen: 49.623 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

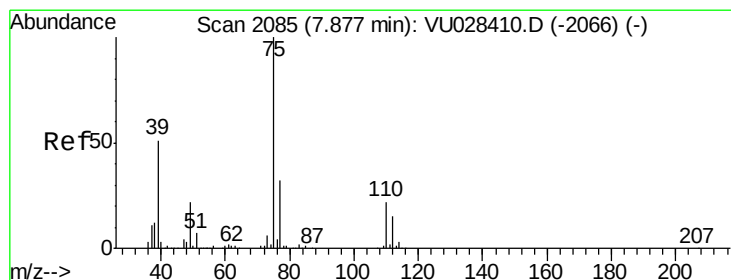
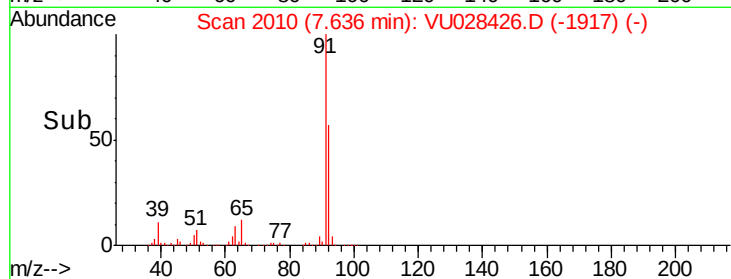
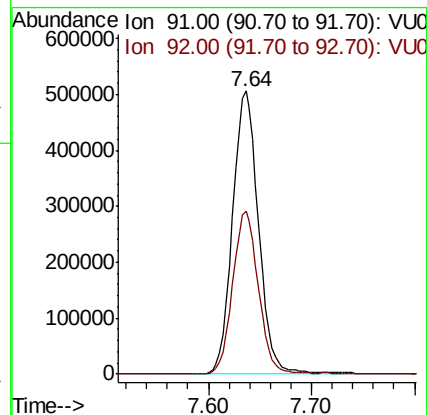
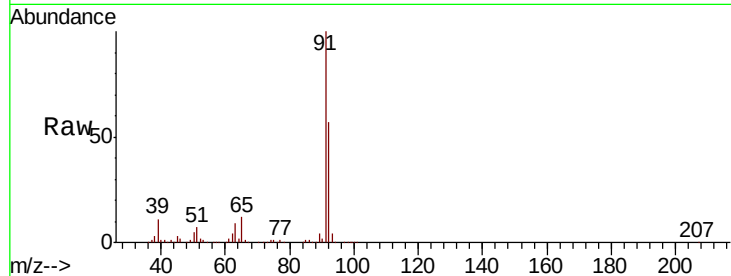
VSTD05059

Tgt Ion: 91 Resp: 889248

Ion Ratio Lower Upper

91 100

92 57.5 40.1 74.5



#44

trans-1,3-Dichloropropene

Concen: 48.747 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VU028426.D

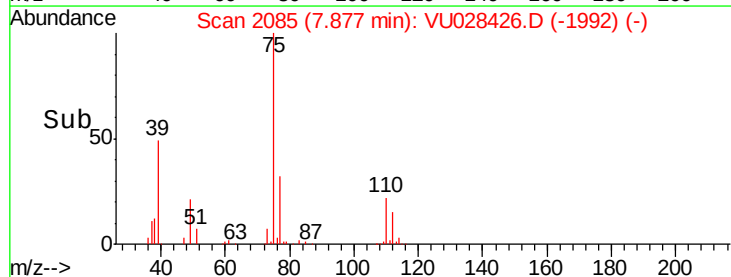
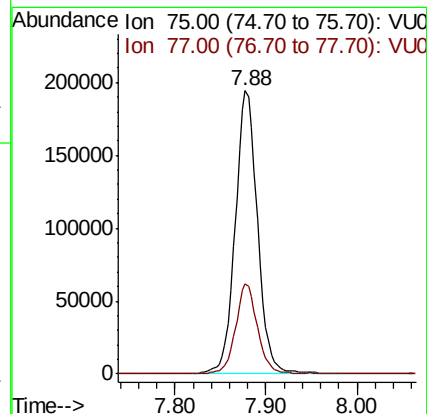
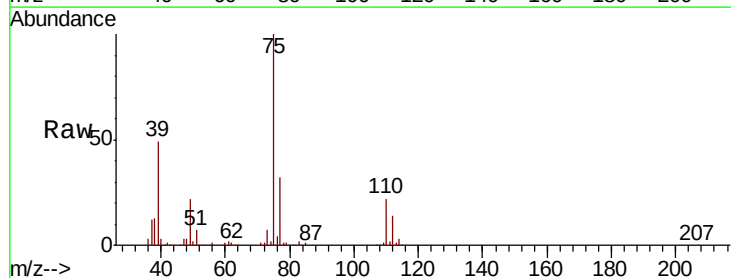
Acq: 30 Nov 2018 16:20

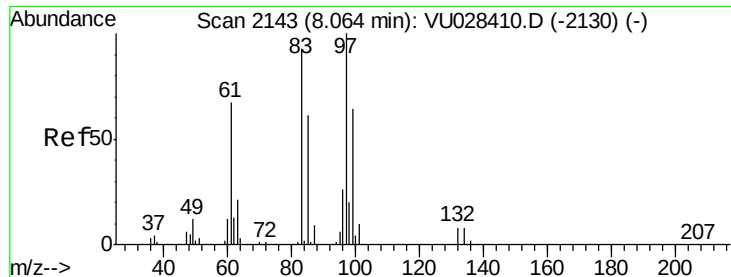
Tgt Ion: 75 Resp: 331119

Ion Ratio Lower Upper

75 100

77 31.9 22.1 41.1

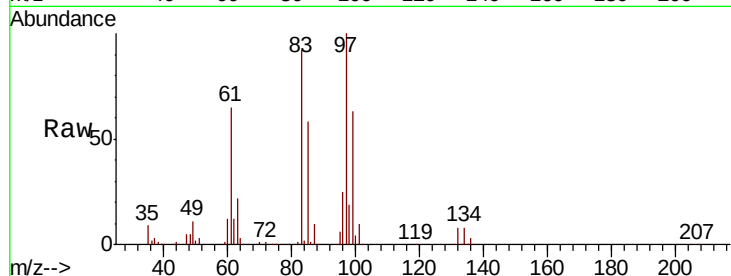




#45
 1,1,2-Trichloroethane
 Concen: 50.413 ug/L
 RT: 8.06 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VU028426.D
 Acq: 30 Nov 2018 16:20

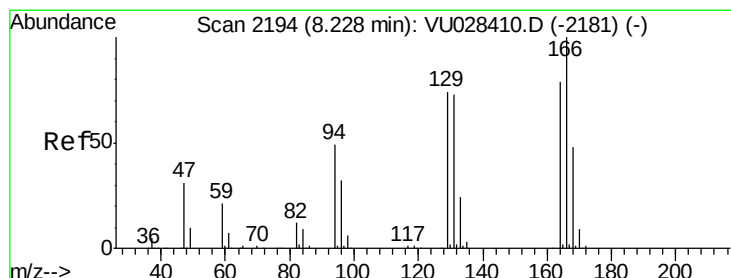
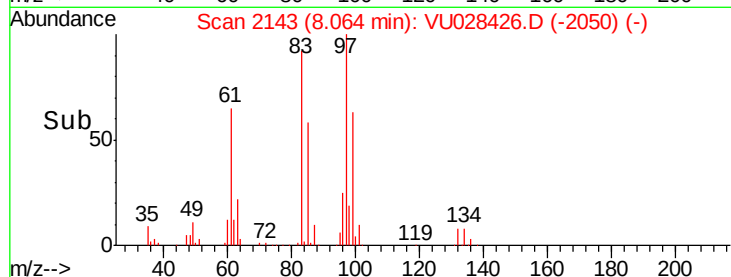
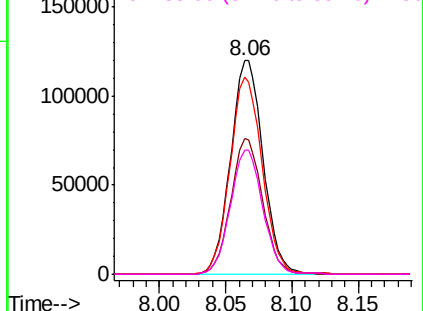
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Tgt Ion:	97	Resp:	204678
Ion	Ratio	Lower	Upper
97	100		
99	63.4	44.9	83.3
83	92.4	65.1	120.9
85	58.4	42.6	79.2



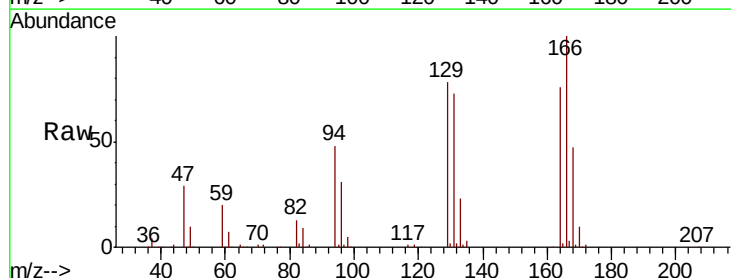
Abundance

Ion 97.00 (96.70 to 97.70): VU028410.D (-2130) (-)



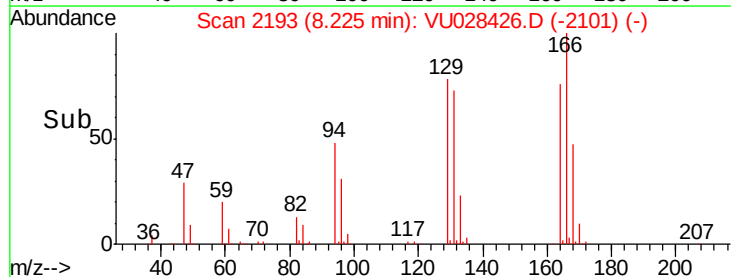
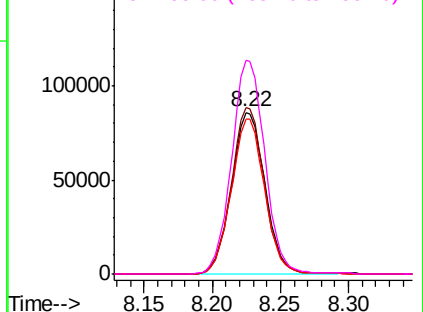
#46
 Tetrachloroethene
 Concen: 49.605 ug/L
 RT: 8.22 min Scan# 2193
 Delta R.T. -0.00 min
 Lab File: VU028426.D
 Acq: 30 Nov 2018 16:20

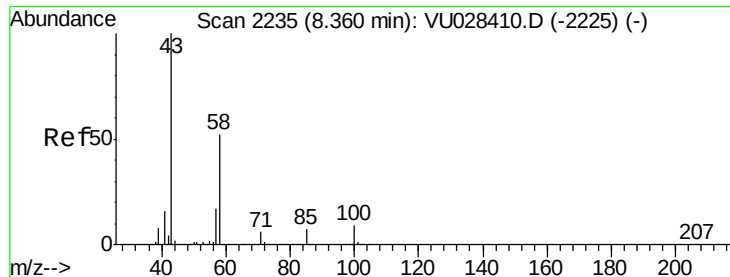
Tgt Ion:	164	Resp:	146872
Ion	Ratio	Lower	Upper
164	100		
129	102.7	65.8	122.2
131	96.0	65.2	121.0
166	132.3	88.9	165.1



Abundance

Ion 164.00 (163.70 to 164.70): VU028410.D (-2181) (-)

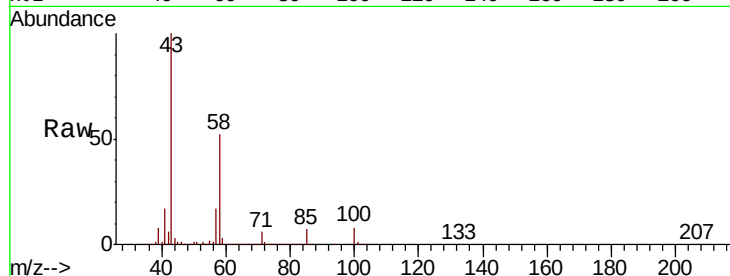




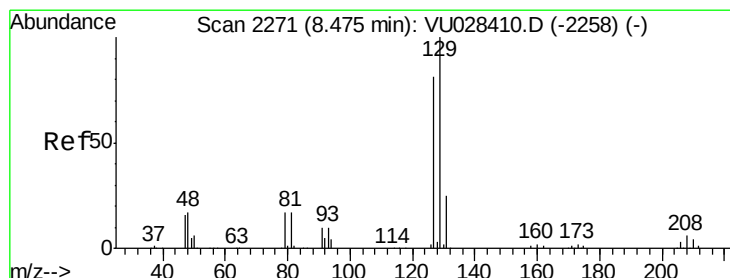
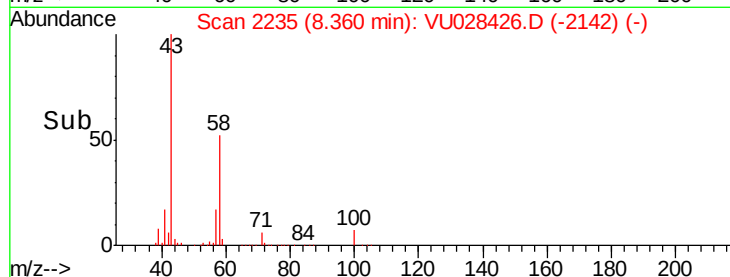
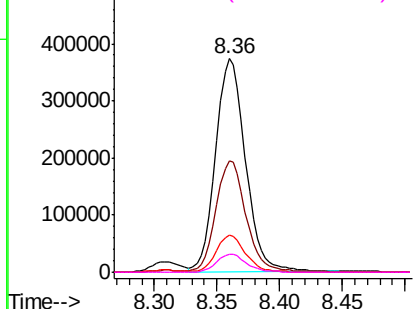
#48
2-Hexanone
Concen: 88.790 ug/L
RT: 8.36 min Scan# 2235
Delta R.T. 0.00 min
Lab File: VU028426.D
Acq: 30 Nov 2018 16:20

Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

Tgt Ion: 43 Resp: 615943
Ion Ratio Lower Upper
43 100
58 52.0 41.4 62.0
57 17.2 14.0 21.0
100 8.6 7.0 10.6

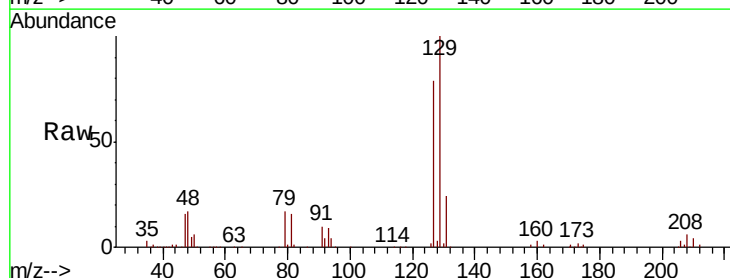


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

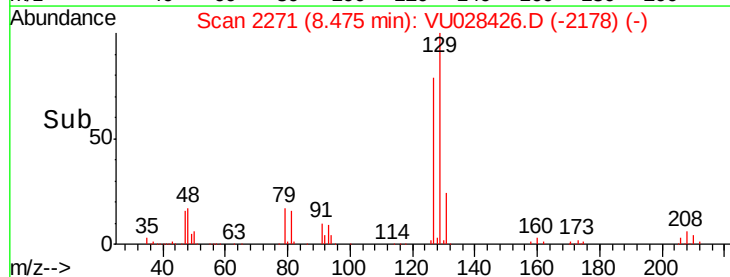
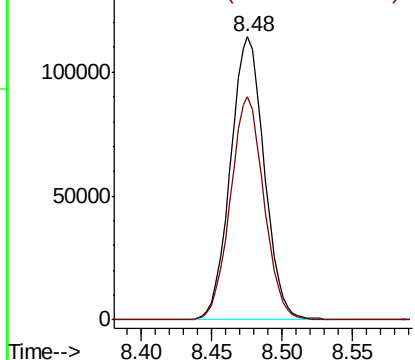


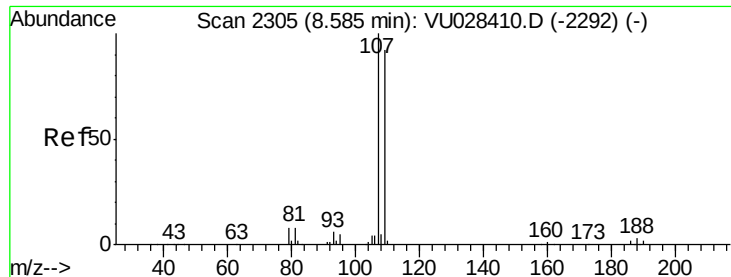
#49
Dibromochloromethane
Concen: 46.223 ug/L
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028426.D
Acq: 30 Nov 2018 16:20

Tgt Ion: 129 Resp: 191964
Ion Ratio Lower Upper
129 100
127 78.6 56.8 105.4



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

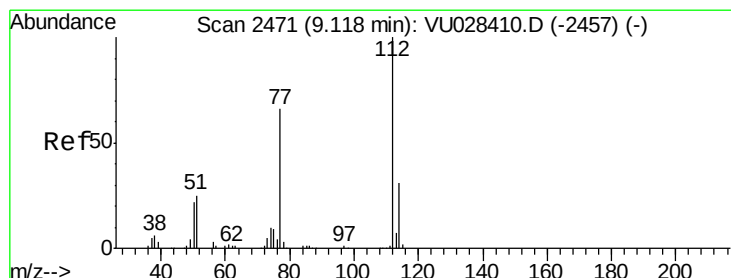
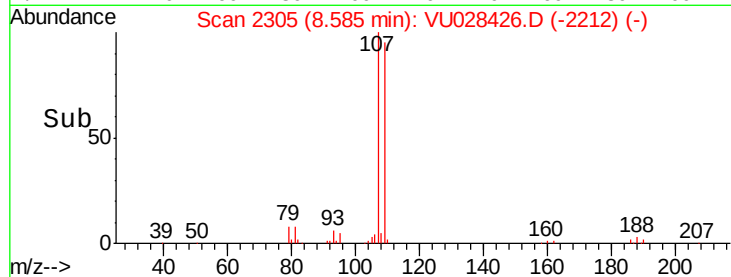
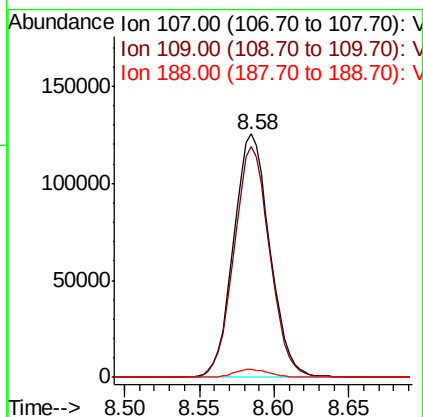
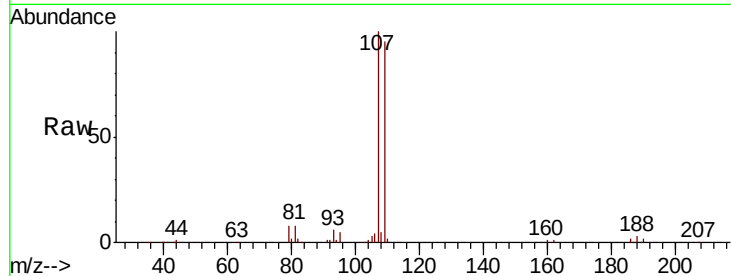




#50
1,2-Dibromoethane
Concen: 48.539 ug/L
RT: 8.58 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VU028426.D
Acq: 30 Nov 2018 16:20

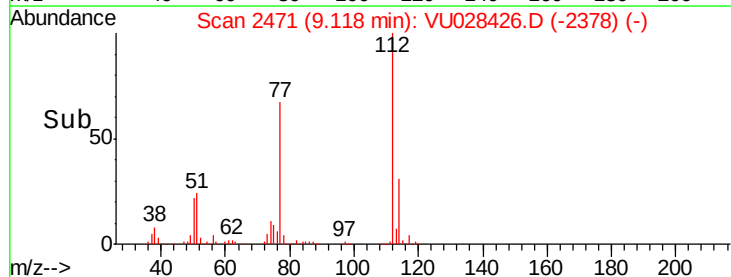
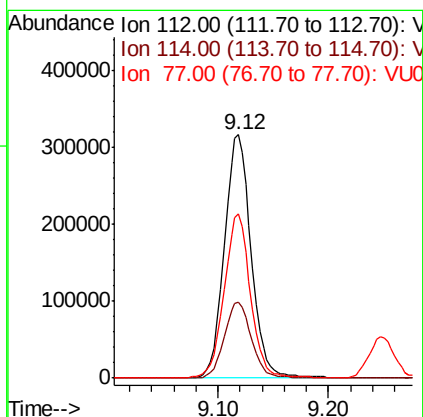
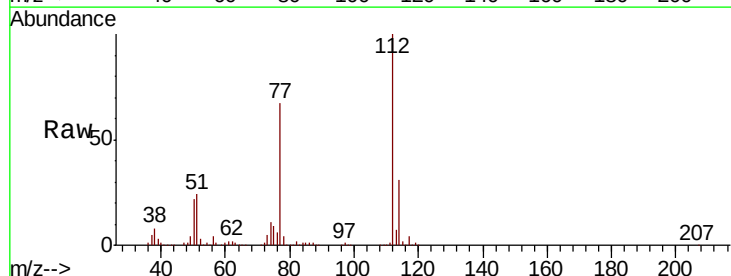
Instrument :
MSVOA_U
ClientSampleId :
VSTD05059

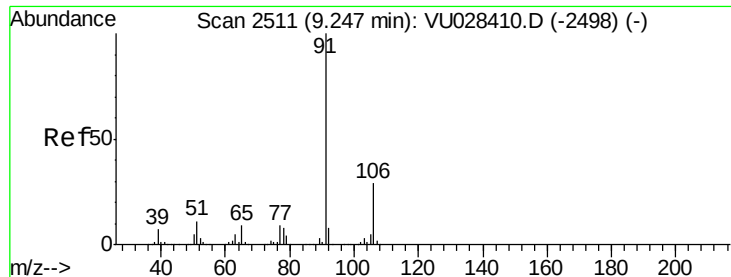
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.8	64.5	119.7
188	3.2	2.6	3.8



#51
Chlorobenzene
Concen: 49.803 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028426.D
Acq: 30 Nov 2018 16:20

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.4	21.6	40.0
77	67.3	53.0	79.6





#52

Ethylbenzene

Concen: 50.074 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

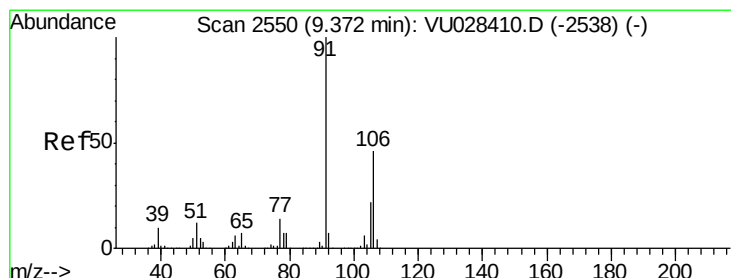
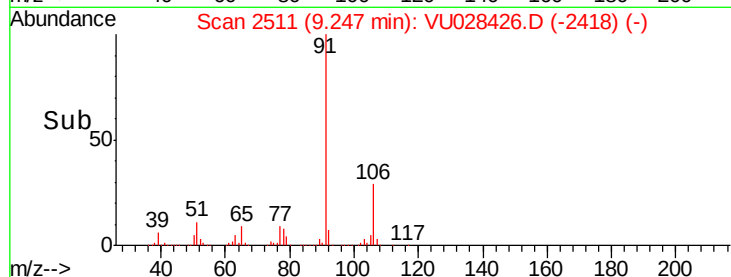
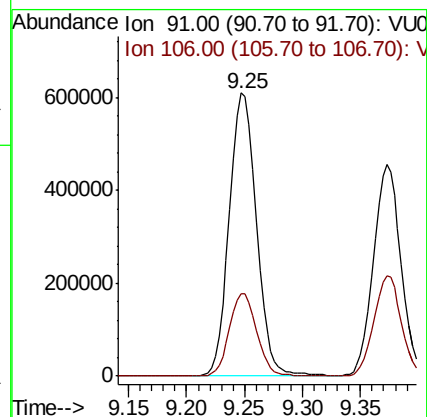
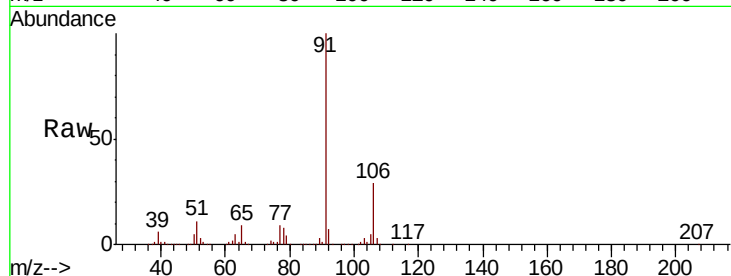
VSTD05059

Tgt Ion: 91 Resp: 991229

Ion Ratio Lower Upper

91 100

106 29.3 20.2 37.6



#53

m,p-Xylene

Concen: 50.799 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU028426.D

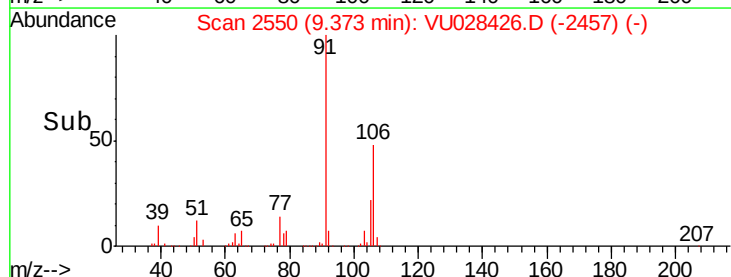
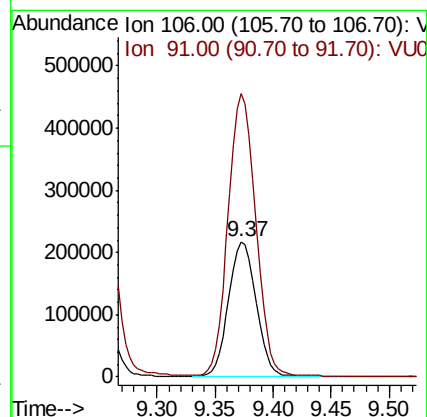
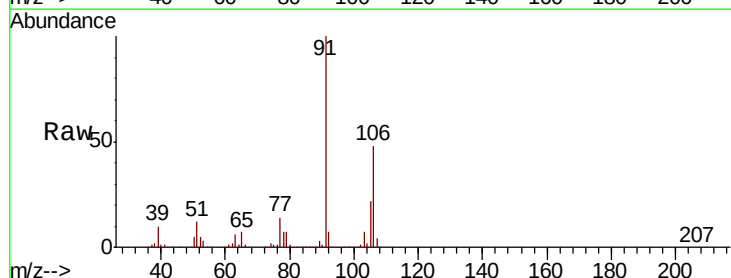
Acq: 30 Nov 2018 16:20

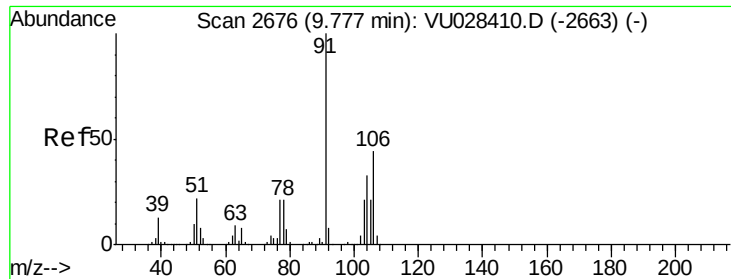
Tgt Ion: 106 Resp: 358655

Ion Ratio Lower Upper

106 100

91 209.7 152.9 283.9





#54

o-xylene

Concen: 49.993 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

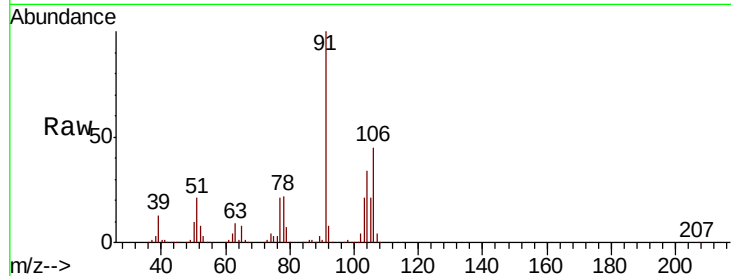
VSTD05059

Tgt Ion:106 Resp: 349607

Ion Ratio Lower Upper

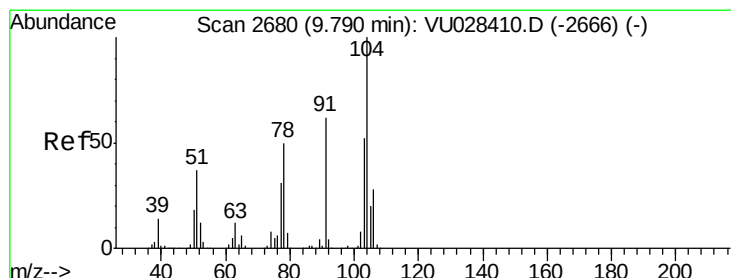
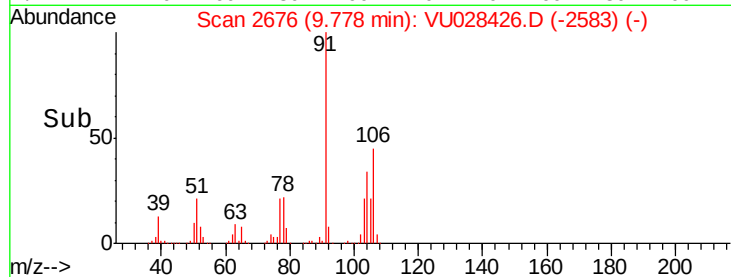
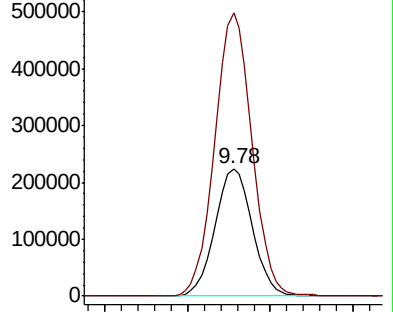
106 100

91 221.9 158.4 294.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 49.749 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. 0.00 min

Lab File: VU028426.D

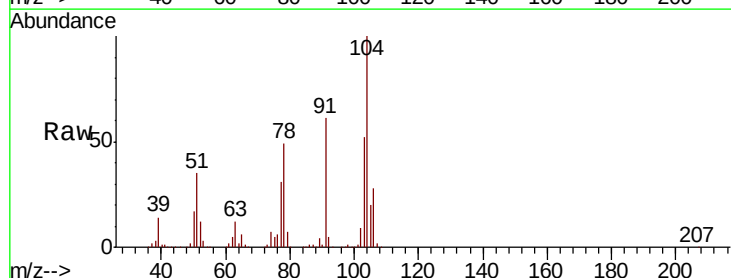
Acq: 30 Nov 2018 16:20

Tgt Ion:104 Resp: 596060

Ion Ratio Lower Upper

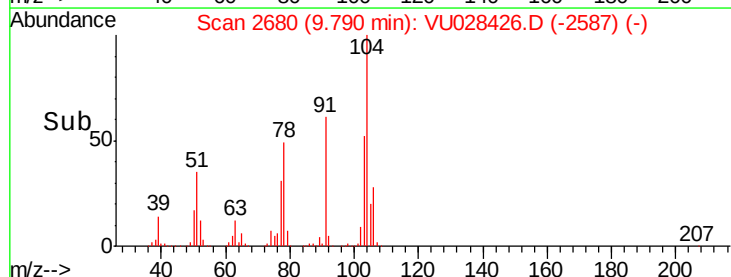
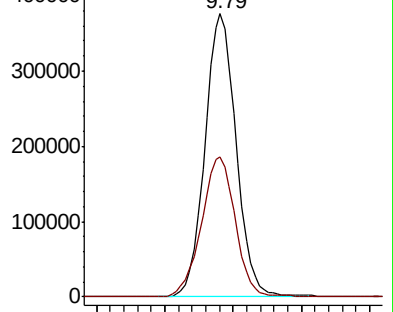
104 100

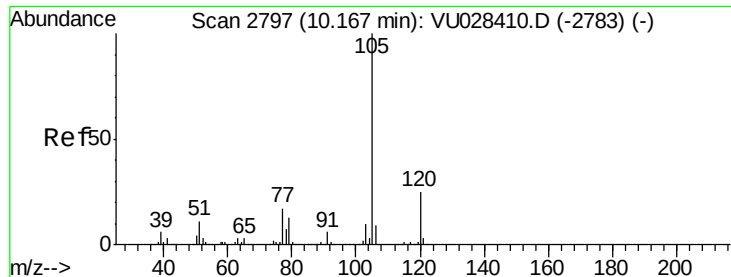
78 49.4 35.0 65.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.944 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

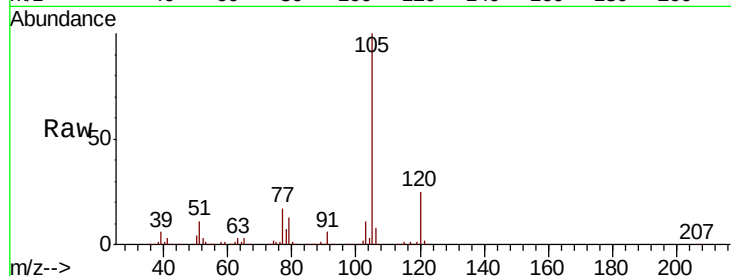
Tgt Ion: 105 Resp: 921382

Ion Ratio Lower Upper

105 100

120 25.5 20.1 30.1

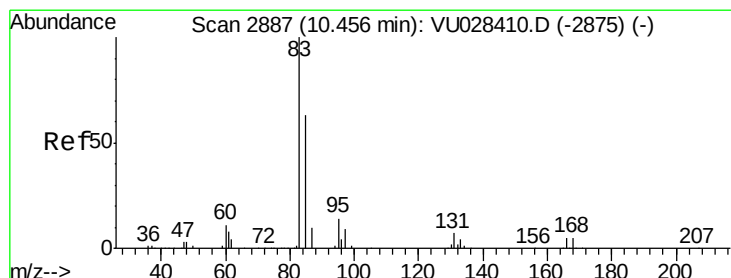
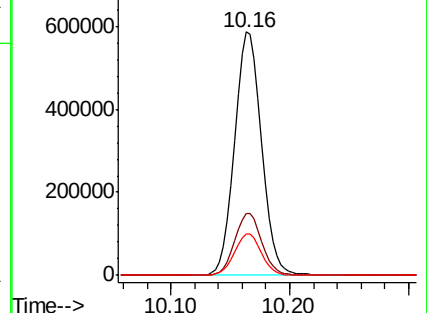
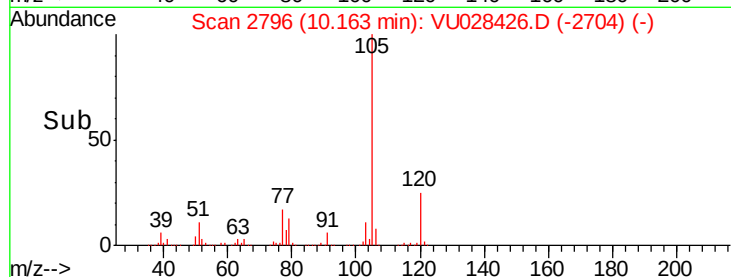
77 17.1 13.4 20.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 47.911 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

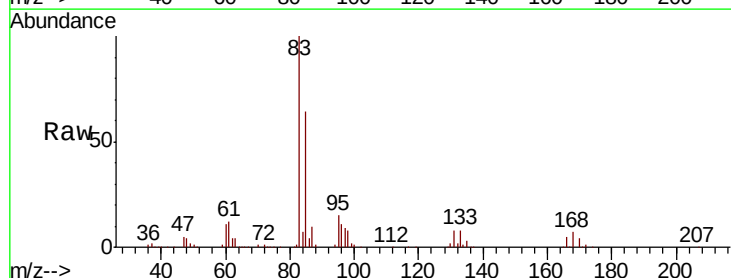
Tgt Ion: 83 Resp: 362858

Ion Ratio Lower Upper

83 100

85 64.4 44.7 83.1

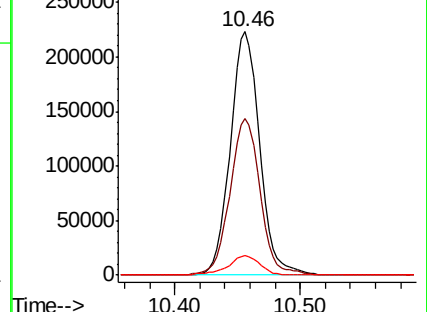
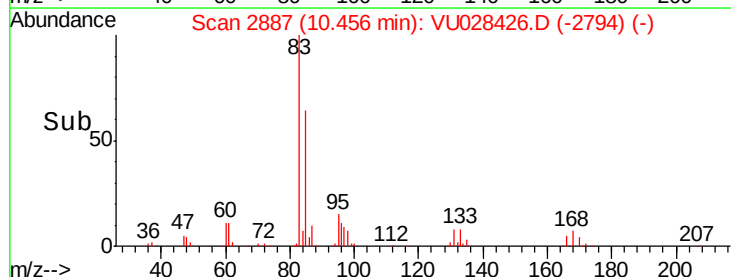
131 8.0 6.5 9.7

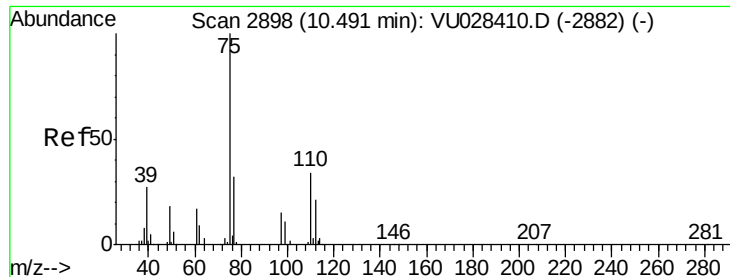


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.333 ug/L

RT: 10.49 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

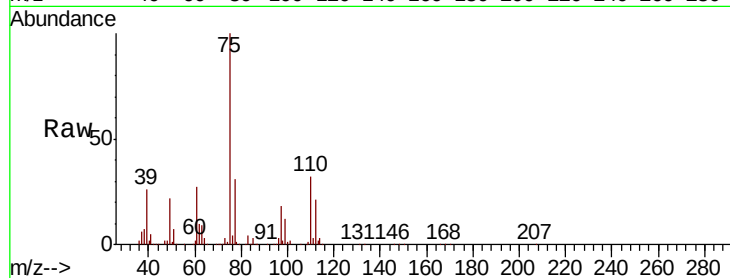
VSTD05059

Tgt Ion: 75 Resp: 286440

Ion Ratio Lower Upper

75 100

77 31.8 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU028410.D (-2882) (-)

Ion 77.00 (76.70 to 77.70): VU028410.D (-2882) (-)

10.49

200000

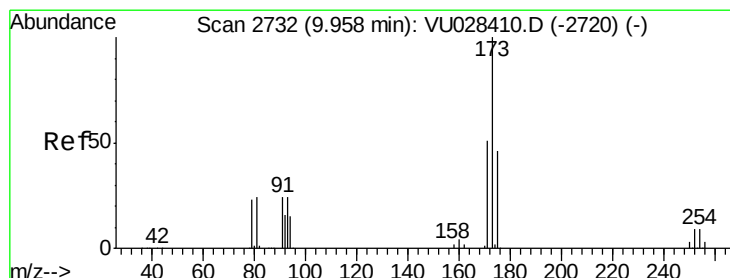
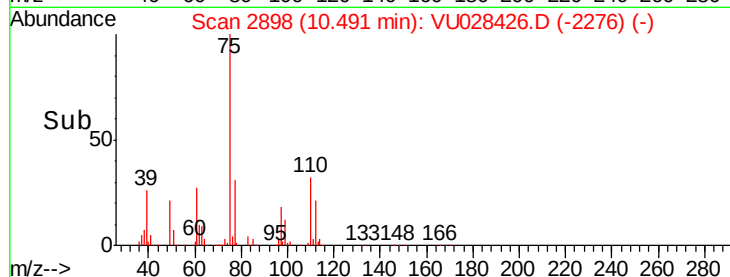
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 45.163 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

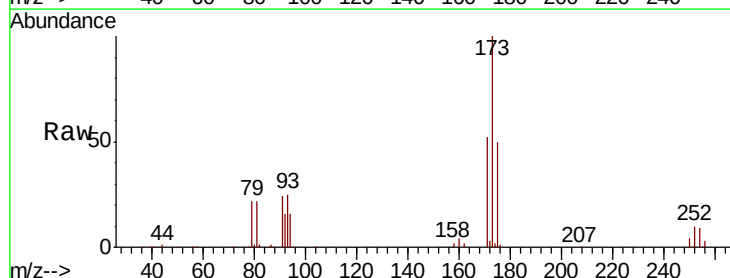
Tgt Ion: 173 Resp: 137585

Ion Ratio Lower Upper

173 100

175 48.6 38.1 57.1

254 8.4 6.8 10.2



Abundance Ion 173.00 (172.70 to 173.70): VU028410.D (-2720) (-)

Ion 175.00 (174.70 to 175.70): VU028410.D (-2720) (-)

Ion 254.00 (253.70 to 254.70): VU028410.D (-2720) (-)

100000

80000

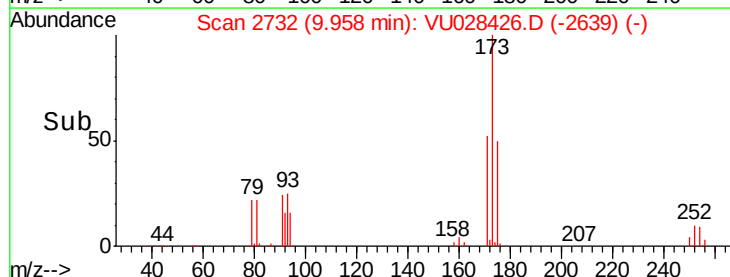
60000

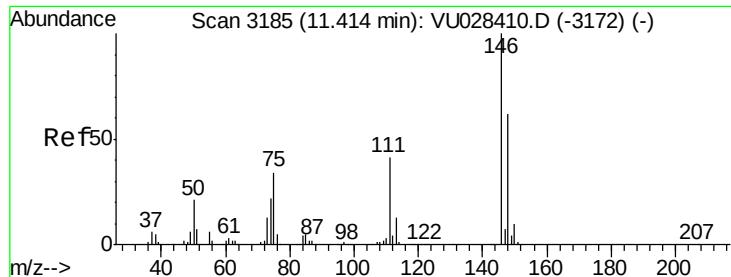
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 49.788 ug/L

RT: 11.41 min Scan# 3185

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

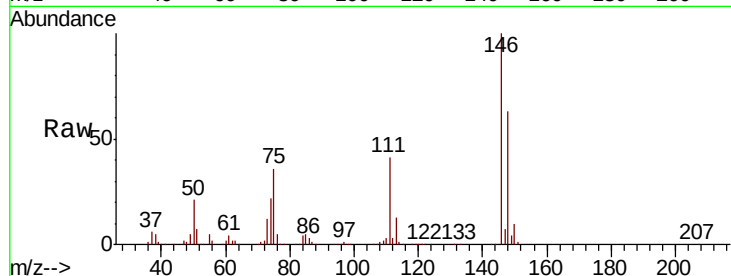
Tgt Ion:146 Resp: 401877

Ion Ratio Lower Upper

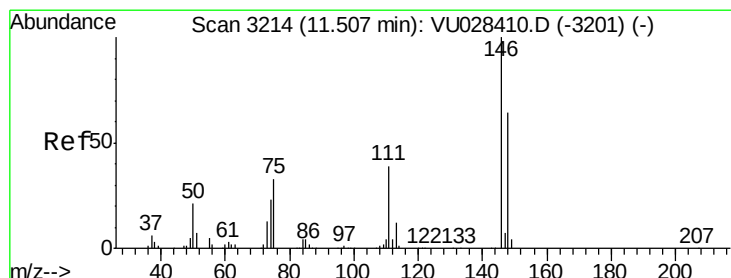
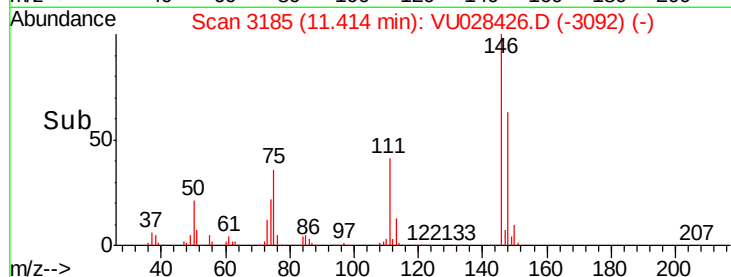
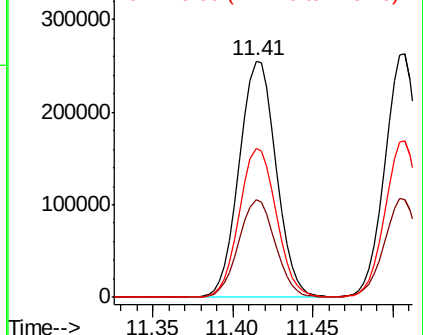
146 100

111 41.3 28.8 53.4

148 63.3 43.1 80.1



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: 49.524 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

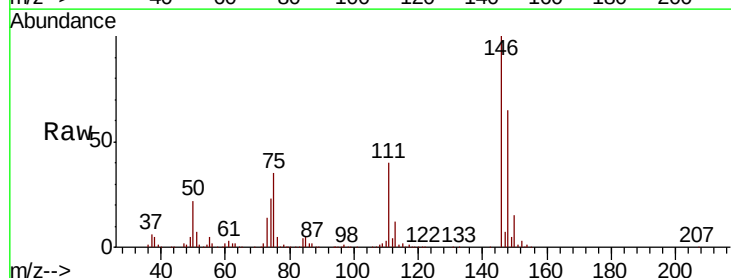
Tgt Ion:146 Resp: 402556

Ion Ratio Lower Upper

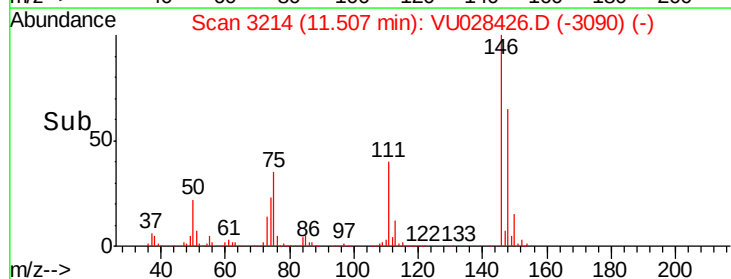
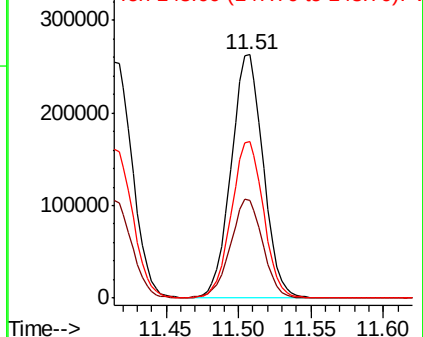
146 100

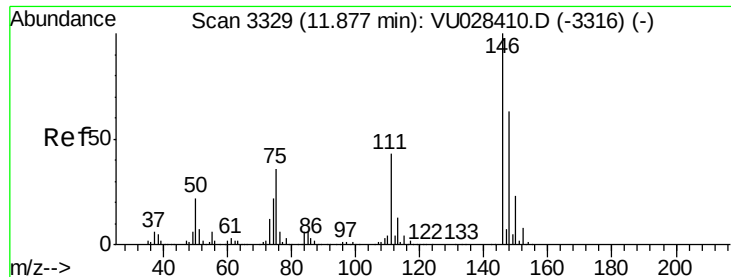
111 40.2 27.6 51.4

148 64.5 44.7 82.9



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

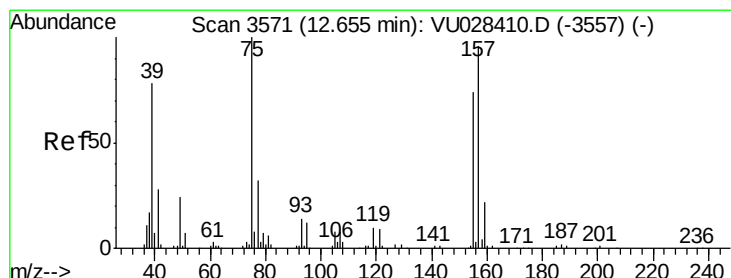
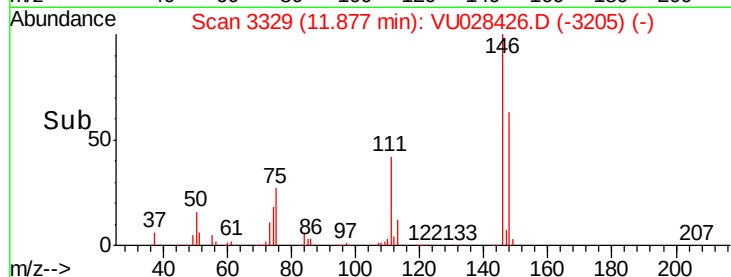
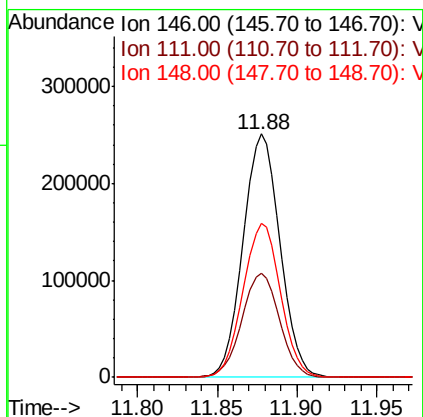
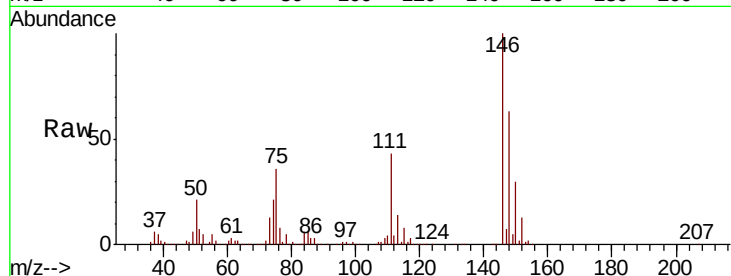




#65
 1,2-Dichlorobenzene
 Concen: 49.244 ug/L
 RT: 11.88 min Scan# 3329
 Delta R.T. 0.00 min
 Lab File: VU028426.D
 Acq: 30 Nov 2018 16:20

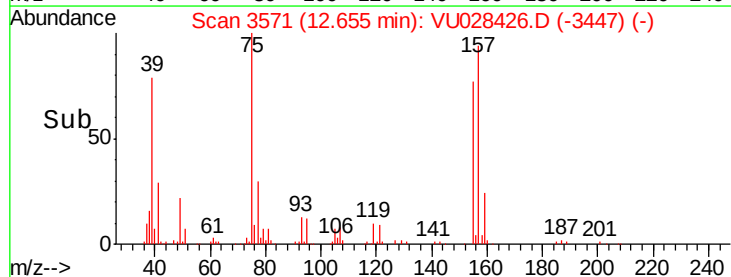
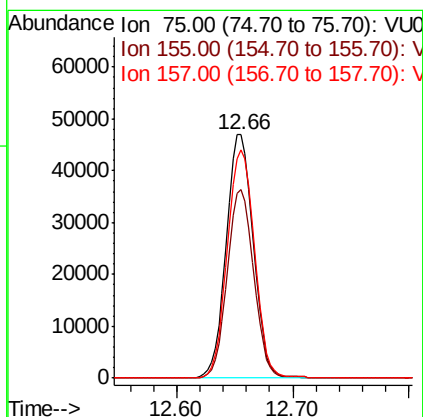
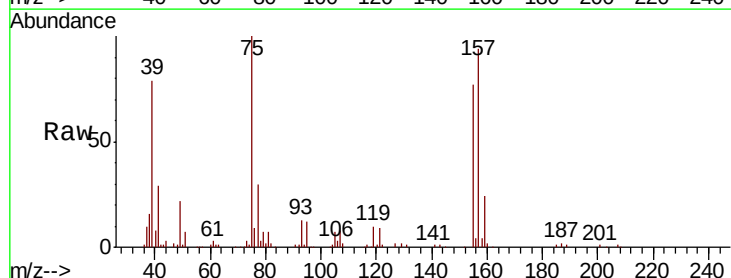
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

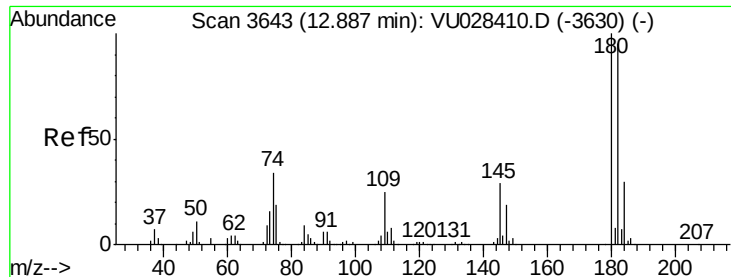
Tgt Ion: 146 Resp: 394538
 Ion Ratio Lower Upper
 146 100
 111 42.6 34.9 52.3
 148 63.4 50.8 76.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.849 ug/L
 RT: 12.66 min Scan# 3571
 Delta R.T. 0.00 min
 Lab File: VU028426.D
 Acq: 30 Nov 2018 16:20

Tgt Ion: 75 Resp: 75616
 Ion Ratio Lower Upper
 75 100
 155 77.5 58.8 88.2
 157 94.0 76.9 115.3

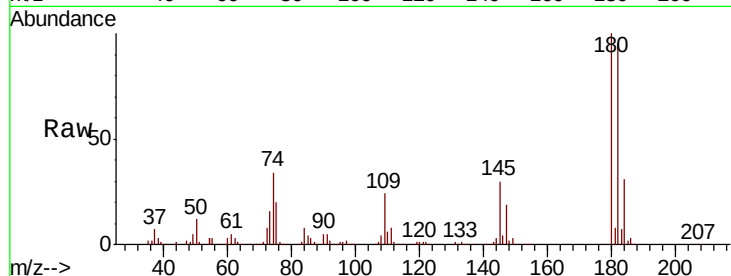




#67
 1,3,5-Trichlorobenzene
 Concen: 50.812 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028426.D
 Acq: 30 Nov 2018 16:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05059

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.8	113.6
184	31.2	24.0	36.0
145	29.3	23.8	35.8



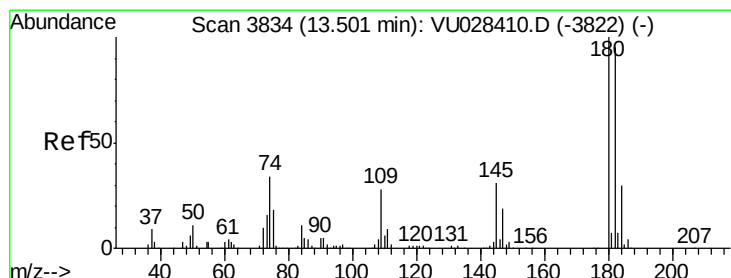
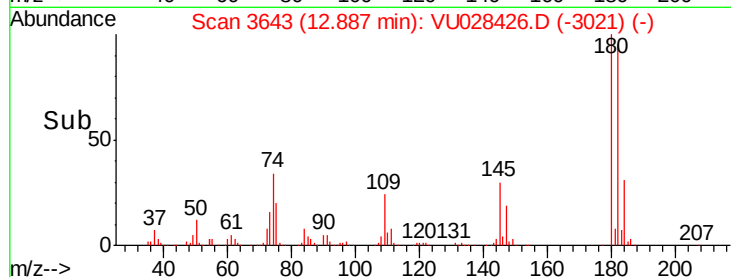
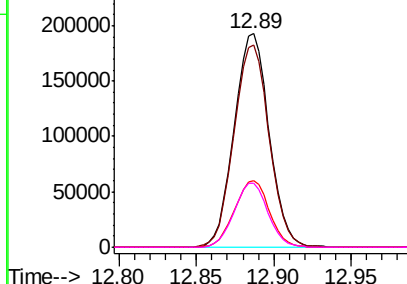
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

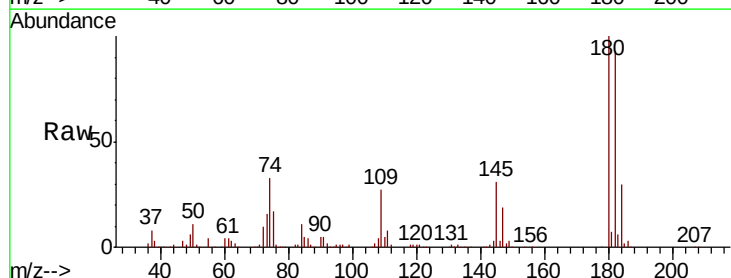
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.187 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028426.D
 Acq: 30 Nov 2018 16:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.8	76.0	114.0
145	30.2	24.2	36.2

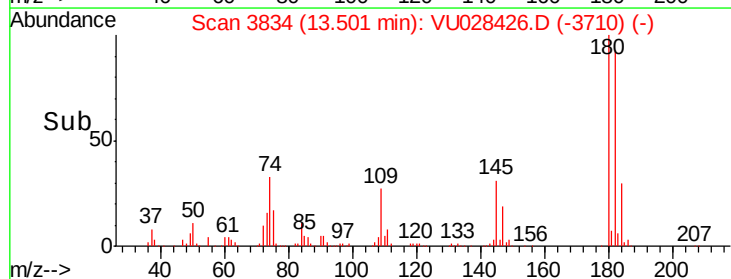
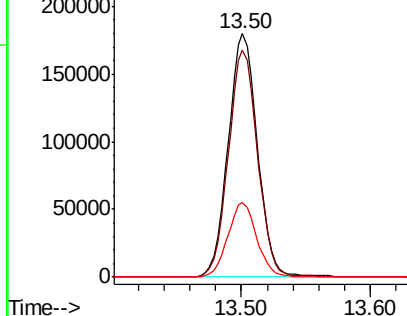


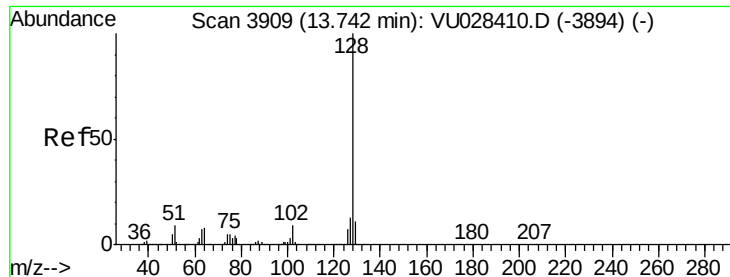
Abundance

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: 49.678 ug/L

RT: 13.74 min Scan# 3908

Delta R.T. -0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05059

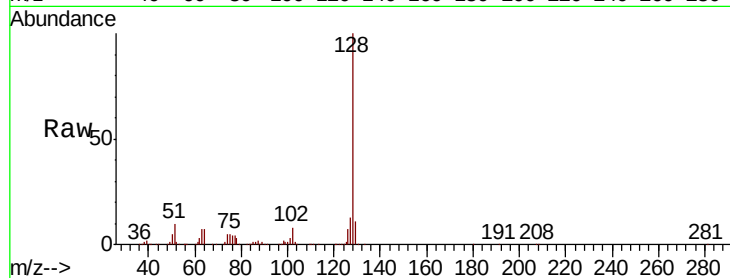
Tgt Ion:128 Resp: 957992

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

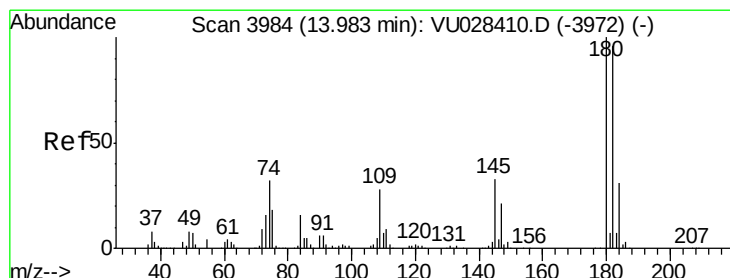
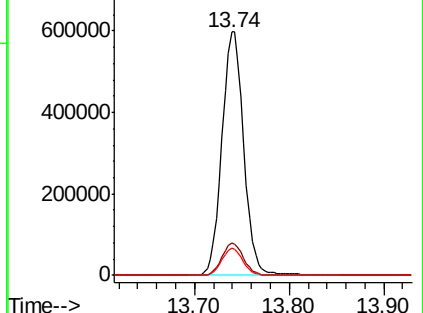
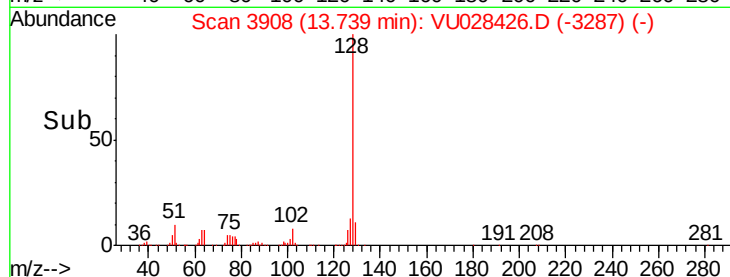
129 10.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.378 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028426.D

Acq: 30 Nov 2018 16:20

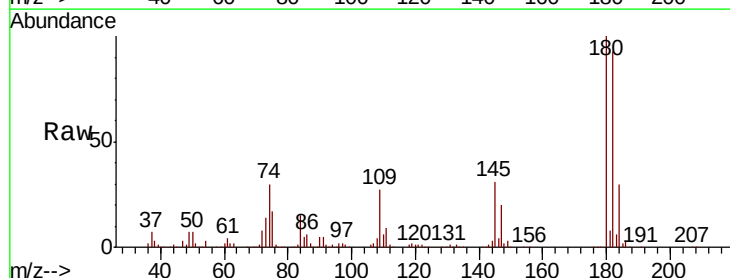
Tgt Ion:180 Resp: 280641

Ion Ratio Lower Upper

180 100

182 95.4 76.6 115.0

145 31.8 26.2 39.2



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

