

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011619\
 Data File : VU029197.D
 Acq On : 16 Jan 2019 10:13
 Operator : JC/SP
 Sample : VU0116WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

Quant Time: Jan 17 00:55:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	110477	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	174726	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	165021	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	82062	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	70106	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	
35) Dibromofluoromethane	4.88	113	60240	53.19	ug/l	0.00
Spiked Amount			Recovery	=	106.38%	
50) Toluene-d8	7.56	98	229689	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	
62) 4-Bromofluorobenzene	10.30	95	80837	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	20854	19.034	ug/l	99
3) Chloromethane	1.33	50	31329	17.461	ug/l	98
4) Vinyl Chloride	1.40	62	30963	19.177	ug/l	98
5) Bromomethane	1.62	94	17326	18.988	ug/l	97
6) Chloroethane	1.69	64	18842	19.592	ug/l	100
7) Trichlorofluoromethane	1.88	101	34836	19.801	ug/l	99
8) Diethyl Ether	2.10	74	17147	20.287	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.28	101	21301	18.095	ug/l	99
10) Methyl Iodide	2.41	142	19903	17.982	ug/l	97
11) Tert butyl alcohol	2.83	59	36246	104.412	ug/l	99
12) 1,1-Dichloroethene	2.28	96	20005	17.459	ug/l	96
13) Acrolein	2.19	56	19602	75.199	ug/l	98
14) Allyl chloride	2.59	41	39859	18.959	ug/l	93
15) Acrylonitrile	2.93	53	90670	106.462	ug/l	98
16) Acetone	2.32	43	90432	105.111	ug/l	95
17) Carbon Disulfide	2.48	76	67973	17.553	ug/l	99
18) Methyl Acetate	2.61	43	46333	23.161	ug/l	100
19) Methyl tert-butyl Ether	3.00	73	81606	20.258	ug/l	99
20) Methylene Chloride	2.70	84	28838	19.742	ug/l	98
21) trans-1,2-Dichloroethene	2.98	96	25809	19.388	ug/l	99
22) Diisopropyl ether	3.57	45	87738	21.116	ug/l	95
23) Vinyl Acetate	3.52	43	352180	103.681	ug/l	98
24) 1,1-Dichloroethane	3.44	63	51152	21.326	ug/l	99
25) 2-Butanone	4.26	43	130780	112.545	ug/l	99
26) 2,2-Dichloropropane	4.22	77	40953	21.130	ug/l	99
27) cis-1,2-Dichloroethene	4.22	96	29363	20.167	ug/l	97
28) Bromochloromethane	4.54	49	22719	22.120	ug/l	95
29) Tetrahydrofuran	4.63	42	76439	108.457	ug/l	97
30) Chloroform	4.67	83	48954	21.428	ug/l	96
31) Cyclohexane	4.99	56	46515	19.867	ug/l	96
32) 1,1,1-Trichloroethane	4.91	97	38953	20.635	ug/l	98
36) 1,1-Dichloropropene	5.13	75	34672	19.853	ug/l	100
37) Ethyl Acetate	4.38	43	42996	22.429	ug/l	98
38) Carbon Tetrachloride	5.13	117	31834	21.854	ug/l	95

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 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

Quant Time: Jan 17 00:55:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	42576	19.830	ug/l	99
40) Benzene	5.39	78	112870	20.719	ug/l	100
41) Methacrylonitrile	4.54	41	23058	22.470	ug/l	99
42) 1,2-Dichloroethane	5.40	62	36708	22.424	ug/l	98
43) Isopropyl Acetate	5.55	43	65821	22.383	ug/l	98
44) Trichloroethene	6.18	130	27572	20.427	ug/l	99
45) 1,2-Dichloropropane	6.43	63	31418	21.839	ug/l	100
46) Dibromomethane	6.56	93	19589	21.300	ug/l	98
47) Bromodichloromethane	6.75	83	37905	22.386	ug/l	97
48) Methyl methacrylate	6.62	41	31916	22.289	ug/l	99
49) 1,4-Dioxane	6.61	88	15771	464.755	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	223170	111.511	ug/l	99
52) Toluene	7.63	92	70014	21.111	ug/l	100
53) t-1,3-Dichloropropene	7.88	75	42596	20.942	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	46193	21.017	ug/l	98
55) 1,1,2-Trichloroethane	8.06	97	29587	22.269	ug/l	99
56) Ethyl methacrylate	8.02	69	41999	20.519	ug/l	97
57) 1,3-Dichloropropane	8.24	76	49410	21.734	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.12	63	89462	99.383	ug/l	99
59) 2-Hexanone	8.36	43	175129	111.478	ug/l	98
60) Dibromochloromethane	8.47	129	29505	22.416	ug/l	100
61) 1,2-Dibromoethane	8.58	107	30252	20.995	ug/l	97
64) Tetrachloroethene	8.22	164	24332	20.469	ug/l	98
65) Chlorobenzene	9.12	112	76303	20.628	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	26248	21.866	ug/l	100
67) Ethyl Benzene	9.25	91	127194	20.596	ug/l	100
68) m/p-Xylenes	9.37	106	98436	41.023	ug/l	99
69) o-Xylene	9.78	106	48202	20.848	ug/l	98
70) Styrene	9.79	104	77948	20.565	ug/l	99
71) Bromoform	9.96	173	23216	21.720	ug/l #	98
73) Isopropylbenzene	10.16	105	124264	20.458	ug/l	99
74) N-amyl acetate	10.01	43	53654	20.499	ug/l	97
75) 1,1,2,2-Tetrachloroethane	10.46	83	50692	20.823	ug/l	99
76) 1,2,3-Trichloropropane	10.49	75	57993	28.843	ug/l	82
77) Bromobenzene	10.45	156	32601	20.596	ug/l	100
78) n-propylbenzene	10.58	91	149797	20.927	ug/l	99
79) 2-Chlorotoluene	10.66	91	90343	20.806	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	104117	20.527	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.49	75	57993	74.387	ug/l #	100
82) 4-Chlorotoluene	10.77	91	102129	20.512	ug/l	99
83) tert-Butylbenzene	11.10	119	103330	20.669	ug/l	99
84) 1,2,4-Trimethylbenzene	11.14	105	105839	20.900	ug/l	99
85) sec-Butylbenzene	11.32	105	127670	21.116	ug/l	99
86) p-Isopropyltoluene	11.47	119	108456	21.051	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	59514	20.498	ug/l	97
88) 1,4-Dichlorobenzene	11.50	146	59206	19.755	ug/l	99
89) n-Butylbenzene	11.89	91	100974	21.958	ug/l	97
90) Hexachloroethane	12.14	117	18575	21.431	ug/l	98
91) 1,2-Dichlorobenzene	11.88	146	57621	19.704	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	12.66	75	9926	21.200	ug/l	95

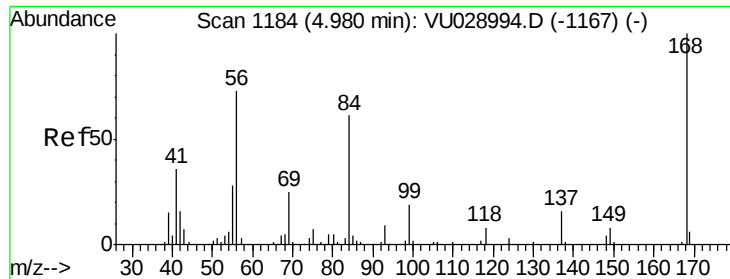
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011619\
Data File : VU029197.D
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Quant Time: Jan 17 00:55:50 2019
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Quant Title : SW846 8260
QLast Update : Sat Jan 12 01:33:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	37511	20.094	ug/l	99
94) Hexachlorobutadiene	13.69	225	19396	22.716	ug/l	100
95) Naphthalene	13.74	128	114959	18.103	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	38546	20.522	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

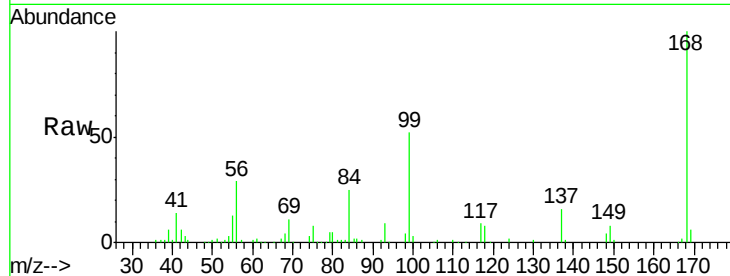
VU0116WBS01

Tot Ion:168 Resp: 110477

Ion Ratio Lower Upper

168 100

99 51.7 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

4.98

50000

40000

30000

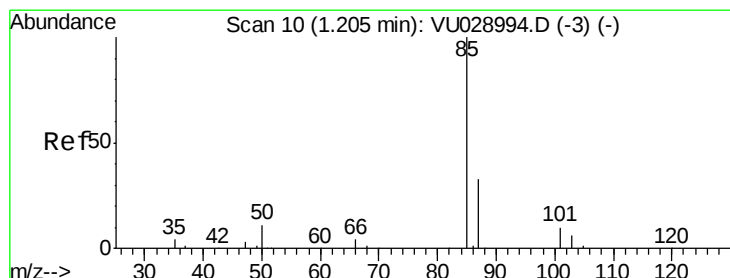
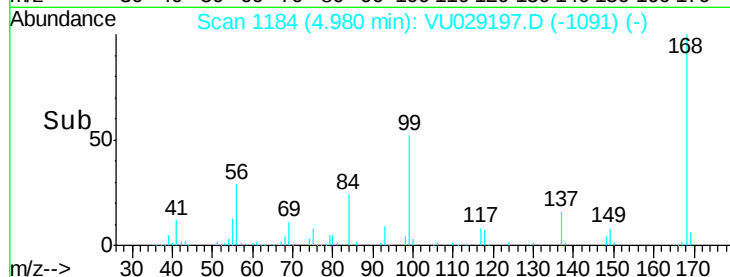
20000

10000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 19.034 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU029197.D

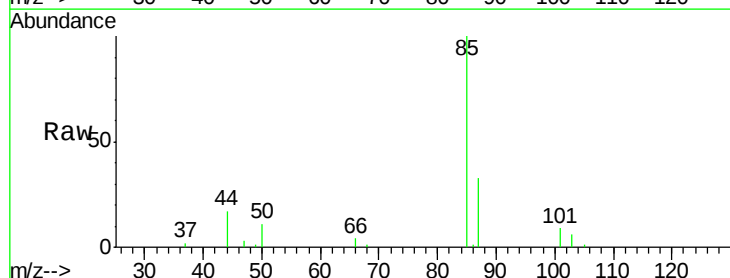
Acq: 16 Jan 2019 10:13

Tgt Ion: 85 Resp: 20854

Ion Ratio Lower Upper

85 100

87 33.0 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VU028994.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU028994.D (-3) (-)

1.21

25000

20000

15000

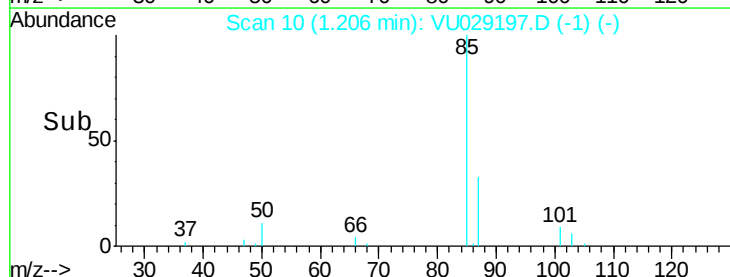
10000

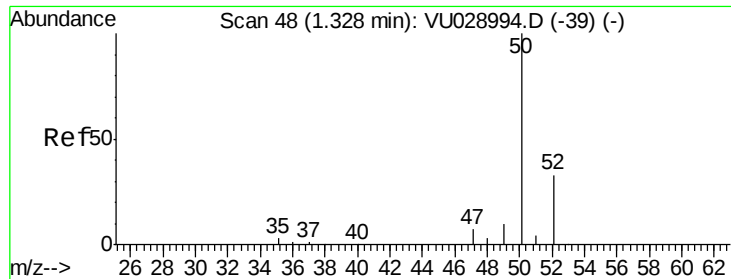
5000

0

1.20 1.25

Time-->

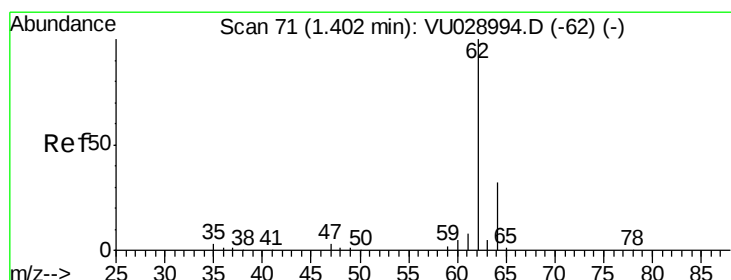
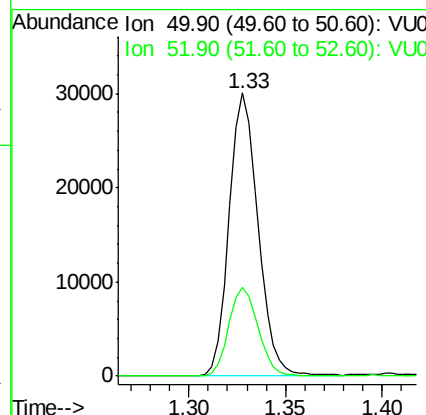
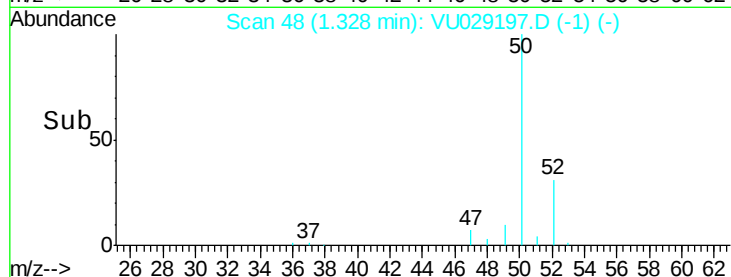
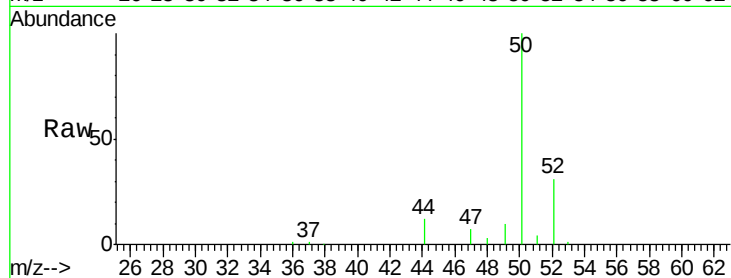




#3
 Chloromethane
 Concen: 17.461 ug/l
 RT: 1.33 min Scan# 48
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

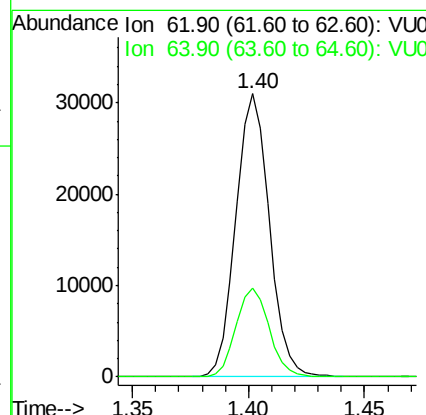
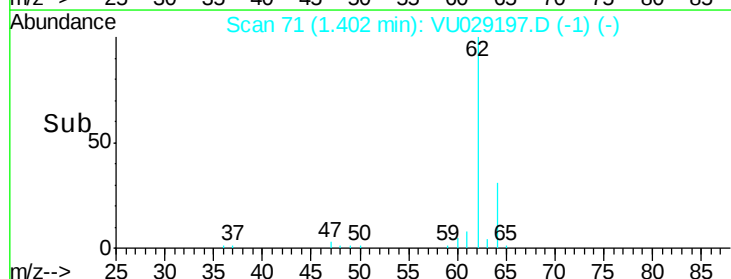
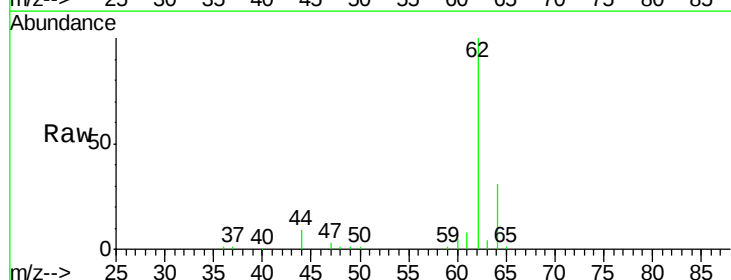
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

Tot Ion: 50 Resp: 31329
 Ion Ratio Lower Upper
 50 100
 52 31.4 26.1 39.1



#4
 Vinyl Chloride
 Concen: 19.177 ug/l
 RT: 1.40 min Scan# 71
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion: 62 Resp: 30963
 Ion Ratio Lower Upper
 62 100
 64 31.3 25.9 38.9





#5

Bromomethane

Concen: 18.988 ug/l

RT: 1.62 min Scan# 138

Delta R.T. 0.01 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

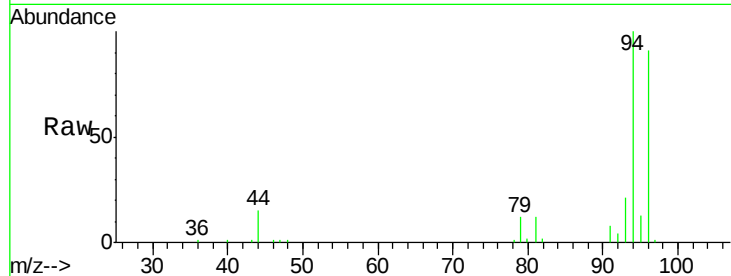
VU0116WBS01

Tot Ion: 94 Resp: 17326

Ion Ratio Lower Upper

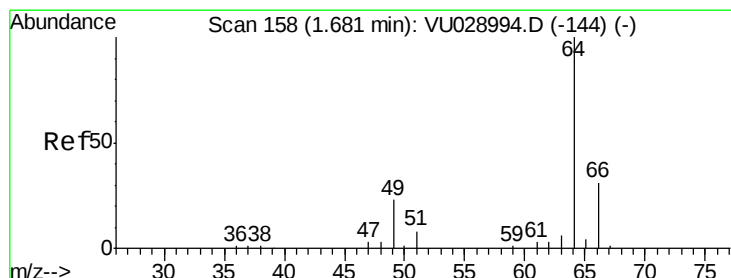
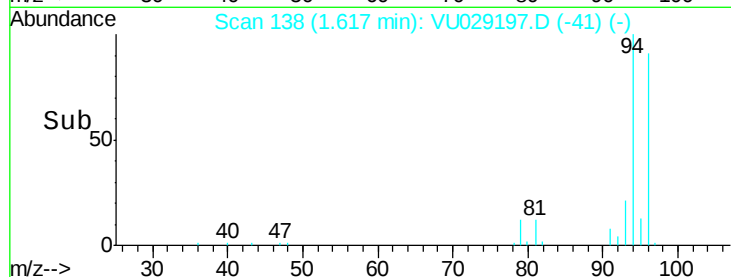
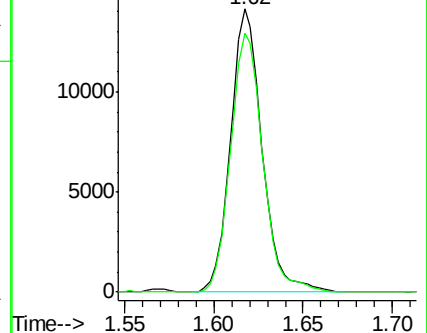
94 100

96 91.5 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 19.592 ug/l

RT: 1.69 min Scan# 162

Delta R.T. 0.01 min

Lab File: VU029197.D

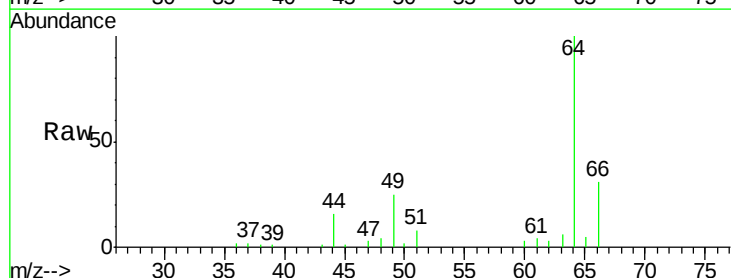
Acq: 16 Jan 2019 10:13

Tgt Ion: 64 Resp: 18842

Ion Ratio Lower Upper

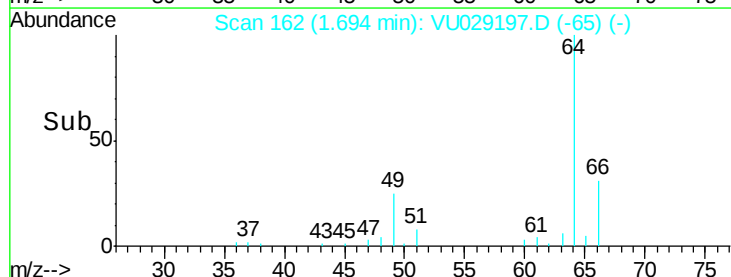
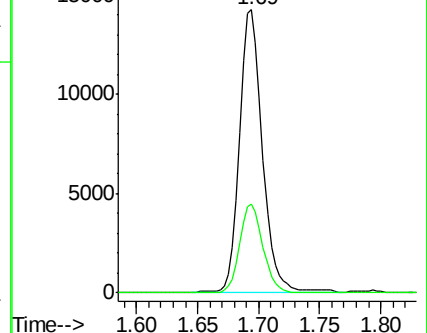
64 100

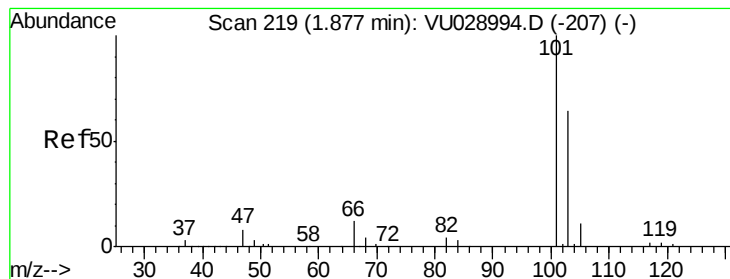
66 31.4 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



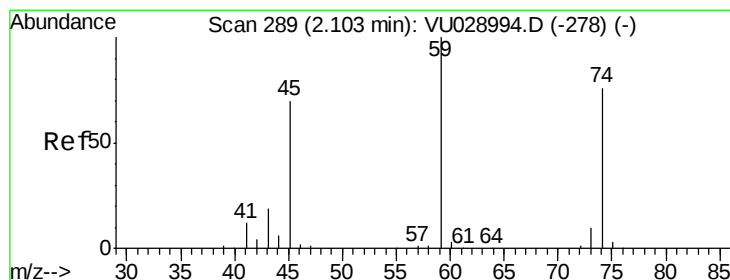
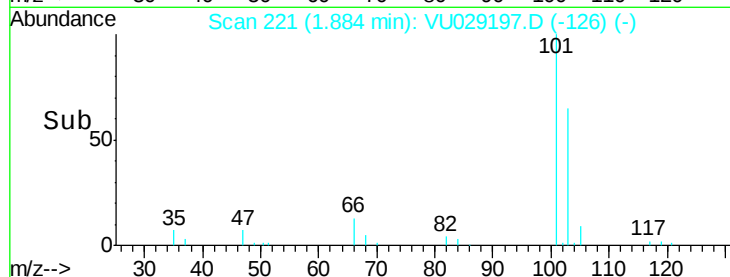
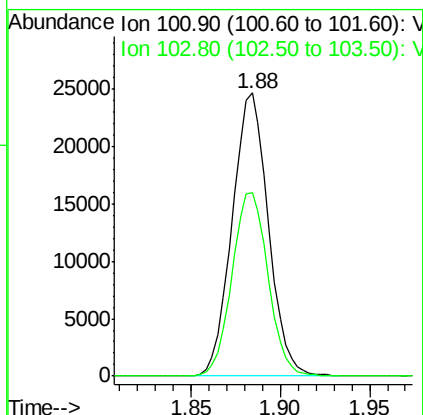
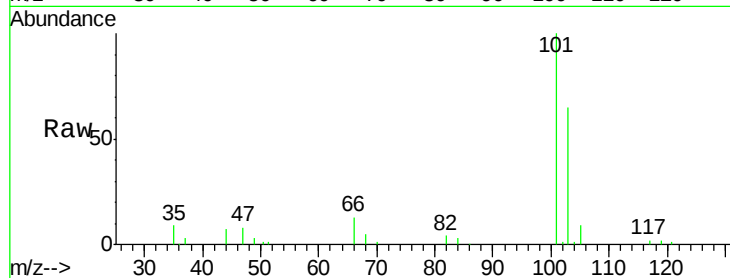


#7

Trichlorofluoromethane
 Concen: 19.801 ug/l
 RT: 1.88 min Scan# 221
 Delta R.T. 0.01 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

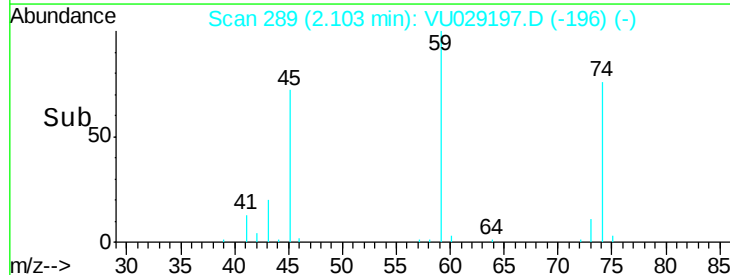
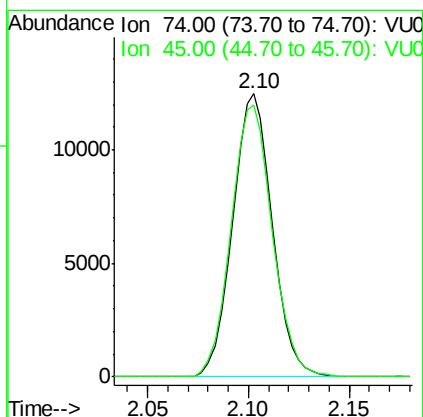
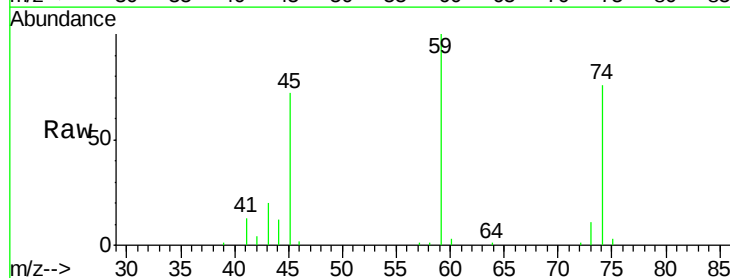
Tot Ion:101 Resp: 34836
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.5 77.3

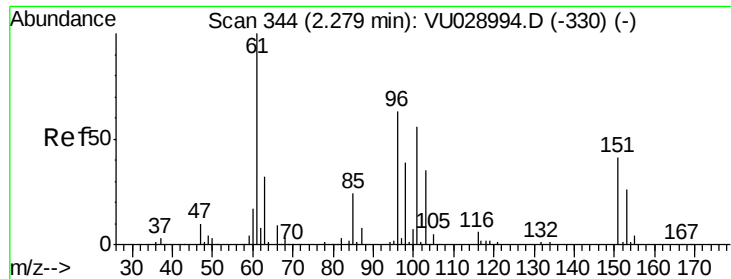


#8

Diethyl Ether
 Concen: 20.287 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion: 74 Resp: 17147
 Ion Ratio Lower Upper
 74 100
 45 99.8 46.9 140.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.095 ug/l

RT: 2.28 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

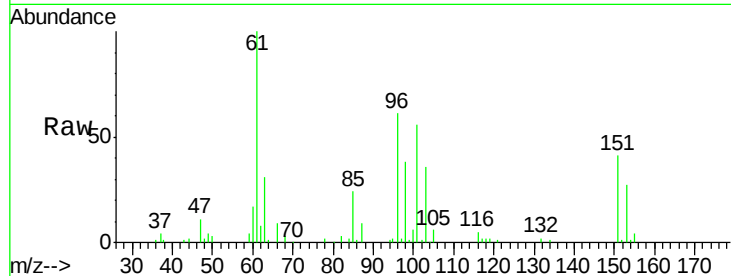
Tot Ion:101 Resp: 21301

Ion Ratio Lower Upper

101 100

85 43.0 35.1 52.7

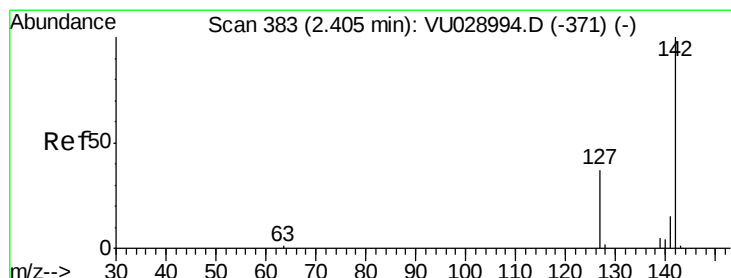
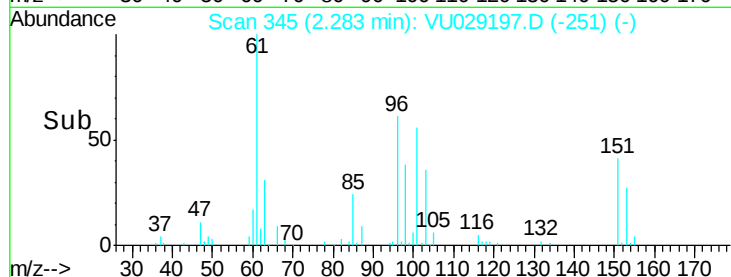
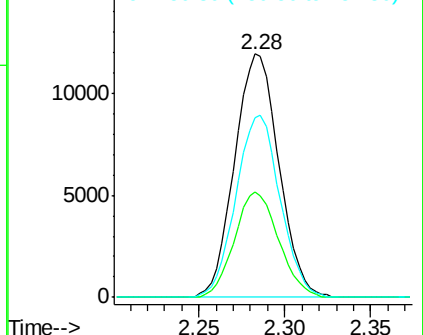
151 74.8 60.2 90.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VU0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 17.982 ug/l

RT: 2.41 min Scan# 384

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

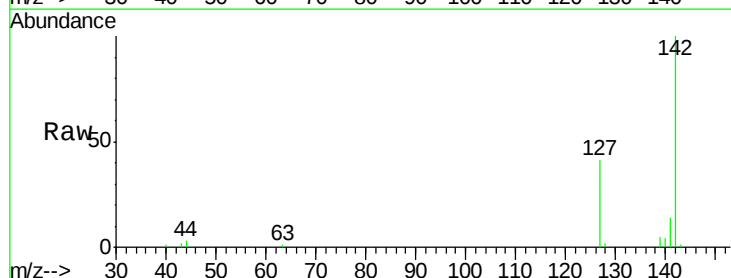
Tgt Ion:142 Resp: 19903

Ion Ratio Lower Upper

142 100

127 39.5 29.8 44.6

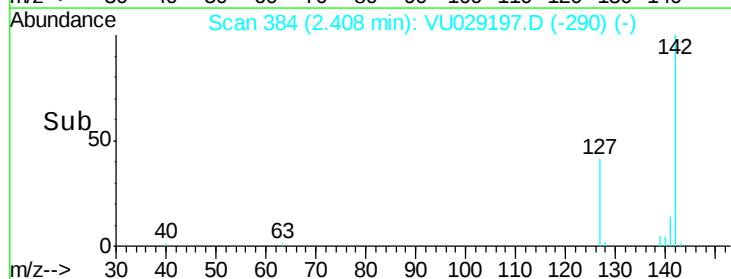
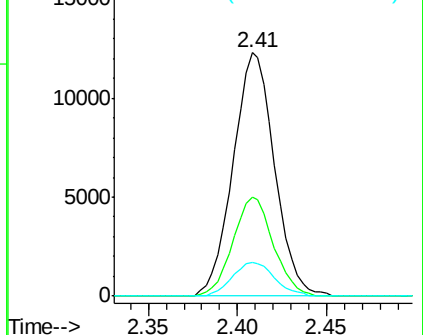
141 14.1 11.5 17.3



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



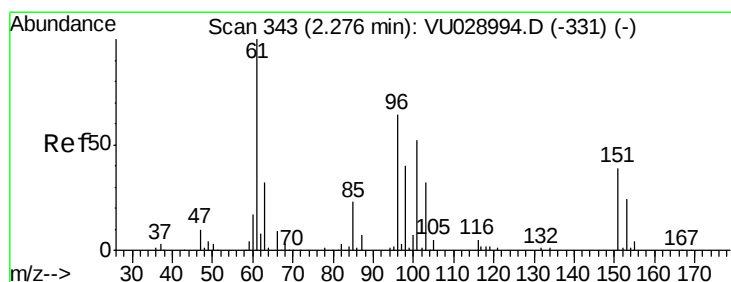
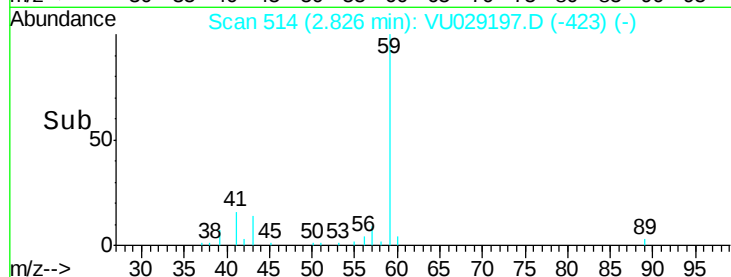
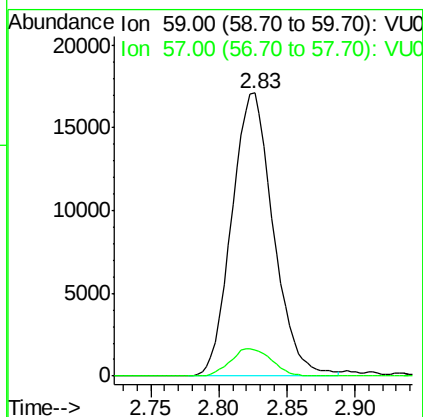
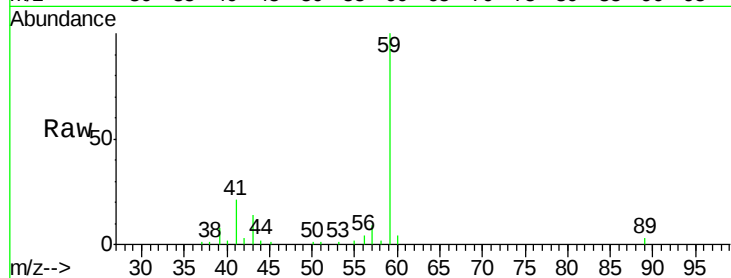


#11

Tert butyl alcohol
 Concen: 104.412 ug/l
 RT: 2.83 min Scan# 514
 Delta R.T. -0.01 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

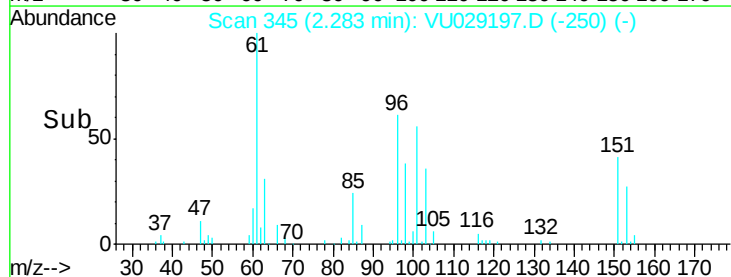
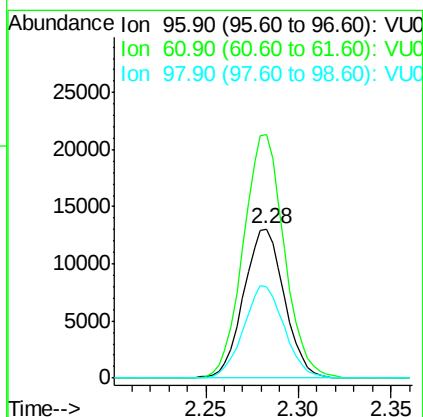
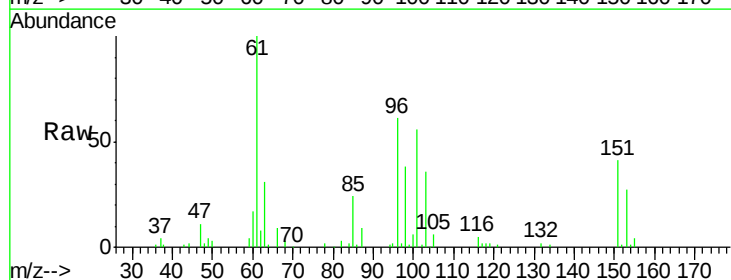
Tot Ion: 59 Resp: 36246
 Ion Ratio Lower Upper
 59 100
 57 9.6 7.9 11.9

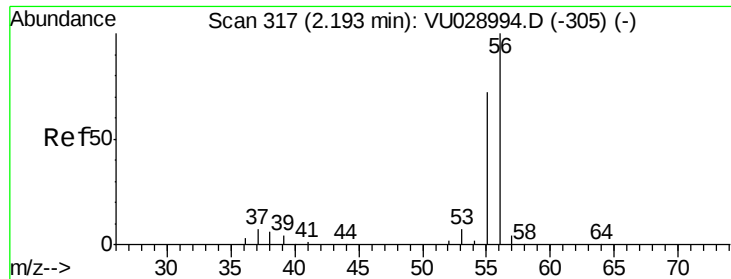


#12

1,1-Dichloroethene
 Concen: 17.459 ug/l
 RT: 2.28 min Scan# 345
 Delta R.T. 0.01 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion: 96 Resp: 20005
 Ion Ratio Lower Upper
 96 100
 61 162.9 125.4 188.0
 98 61.4 49.7 74.5





#13

Acrolein

Concen: 75.199 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

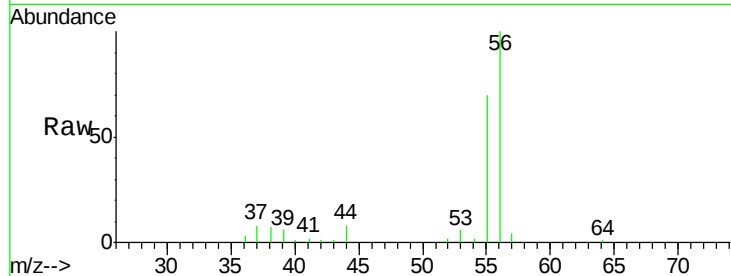
VU0116WBS01

Tot Ion: 56 Resp: 19602

Ion Ratio Lower Upper

56 100

55 72.2 56.5 84.7



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

2.19

15000

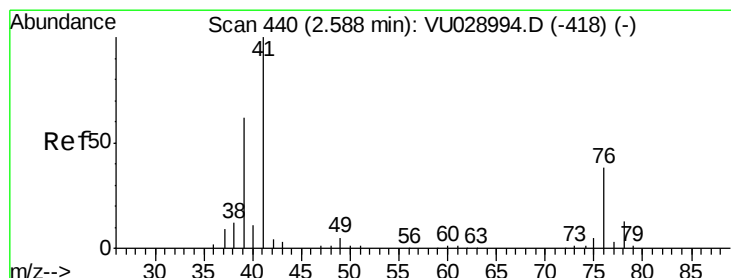
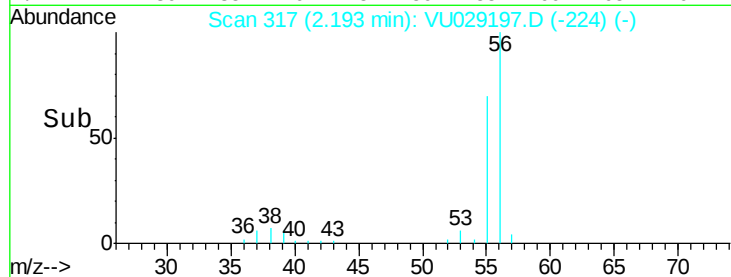
10000

5000

0

Time-->

2.15 2.20 2.25



#14

Allyl chloride

Concen: 18.959 ug/l

RT: 2.59 min Scan# 441

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

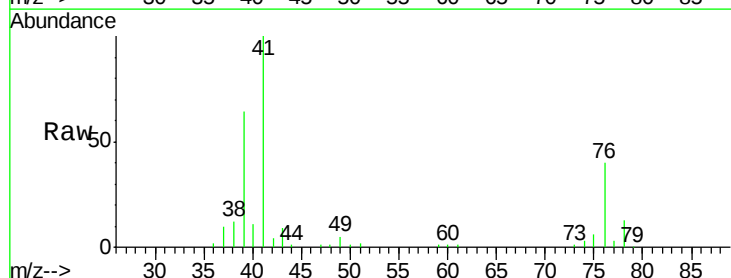
Tgt Ion: 41 Resp: 39859

Ion Ratio Lower Upper

41 100

39 63.0 45.0 67.6

76 37.7 28.1 42.1



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0

2.59

30000

25000

20000

15000

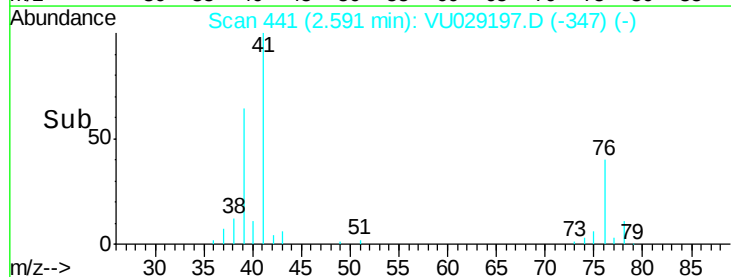
10000

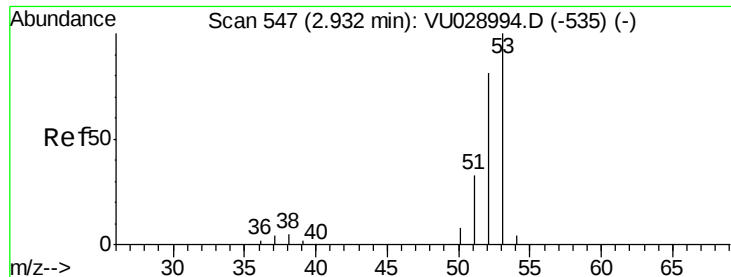
5000

0

Time-->

2.55 2.60 2.65





#15

Acrylonitrile

Concen: 106.462 ug/l

RT: 2.93 min Scan# 547

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

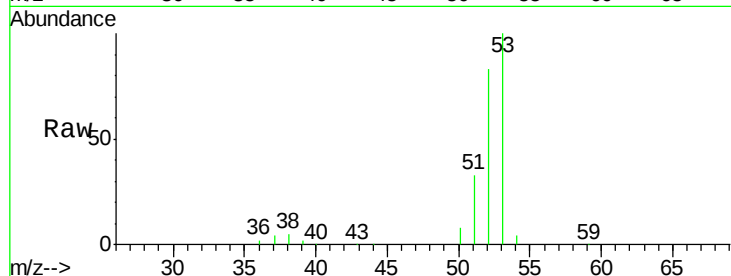
Tot Ion: 53 Resp: 90670

Ion Ratio Lower Upper

53 100

52 83.1 64.8 97.2

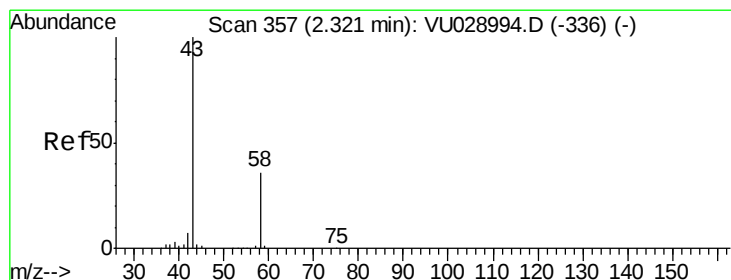
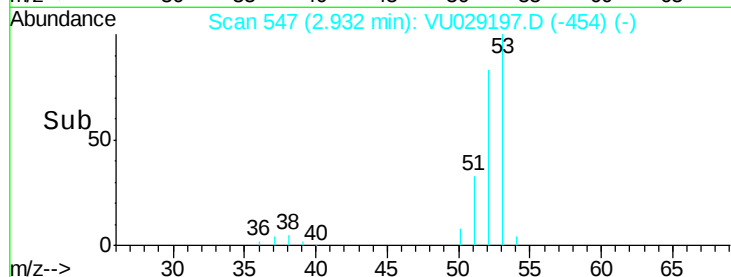
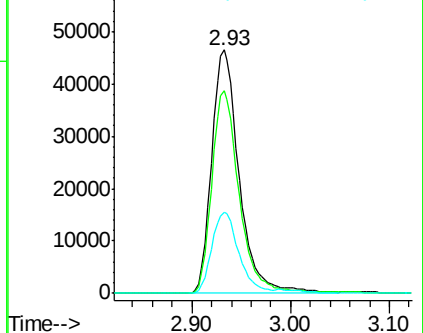
51 32.6 27.3 40.9



Abundance Ion 53.00 (52.70 to 53.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 51.00 (50.70 to 51.70): VU0



#16

Acetone

Concen: 105.111 ug/l

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

Lab File: VU029197.D

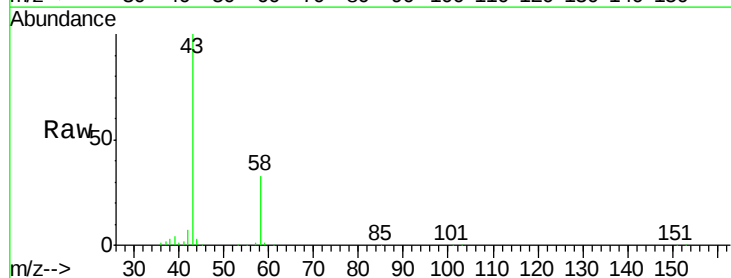
Acq: 16 Jan 2019 10:13

Tgt Ion: 43 Resp: 90432

Ion Ratio Lower Upper

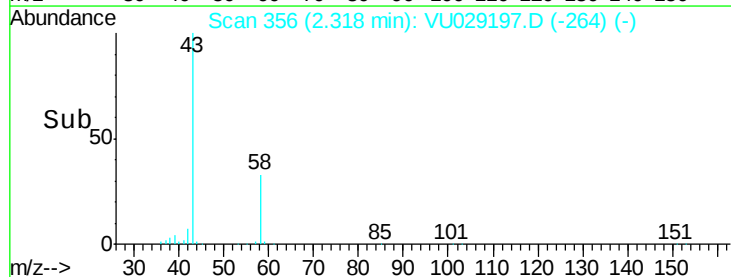
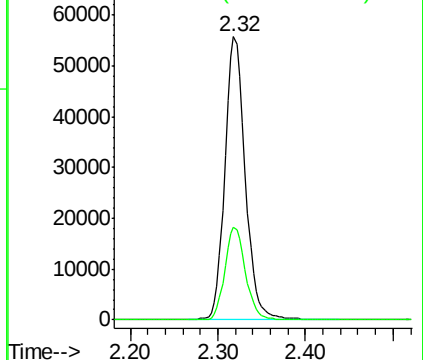
43 100

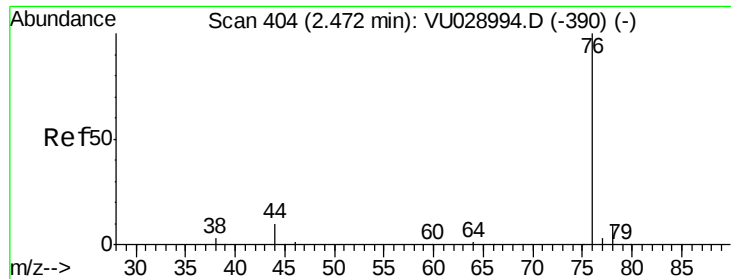
58 32.9 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

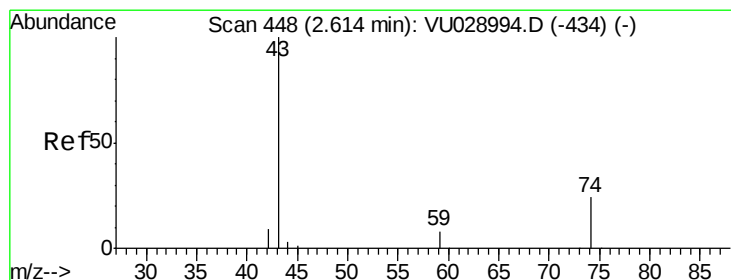
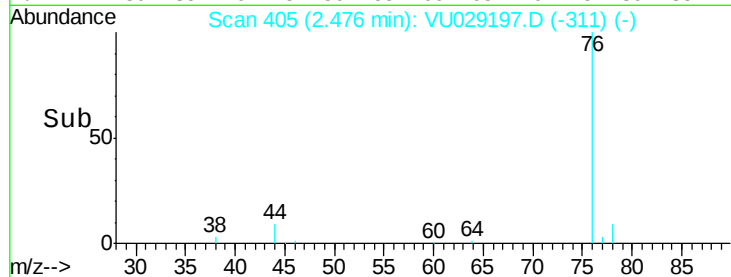
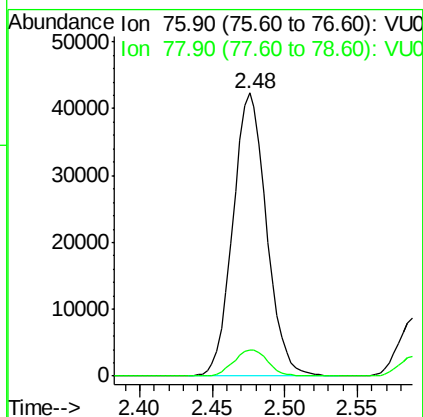
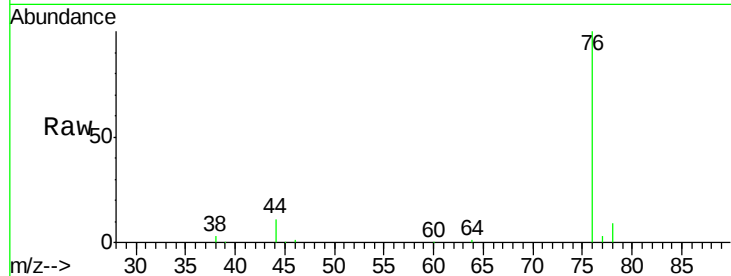




#17
Carbon Disulfide
Concen: 17.553 ug/l
RT: 2.48 min Scan# 405
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

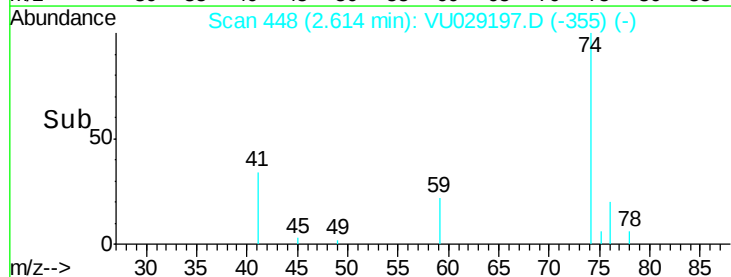
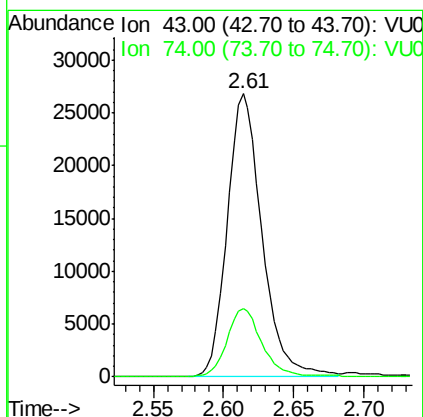
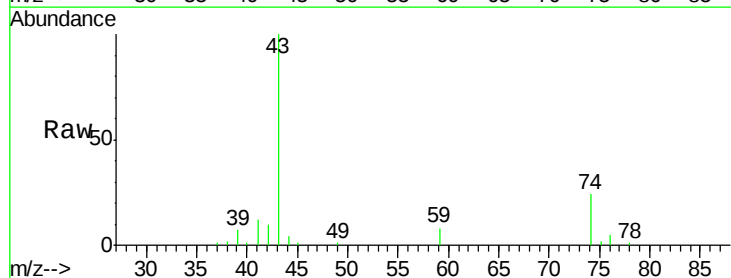
Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

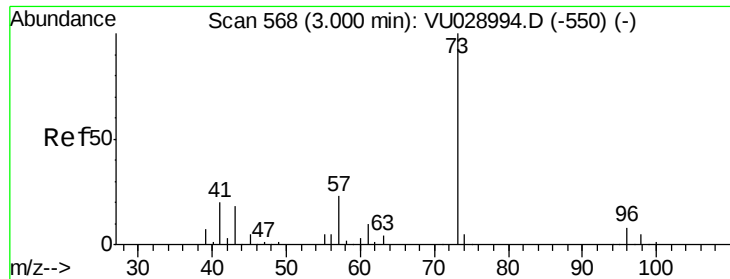
Tot Ion: 76 Resp: 67973
Ion Ratio Lower Upper
76 100
78 9.3 7.2 10.8



#18
Methyl Acetate
Concen: 23.161 ug/l
RT: 2.61 min Scan# 448
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 43 Resp: 46333
Ion Ratio Lower Upper
43 100
74 24.3 19.5 29.3

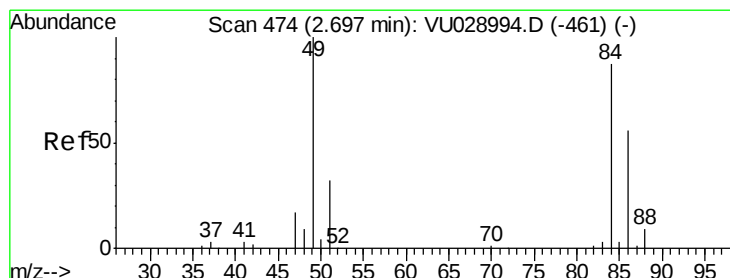
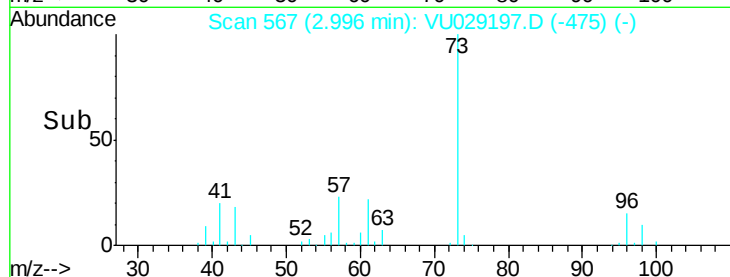
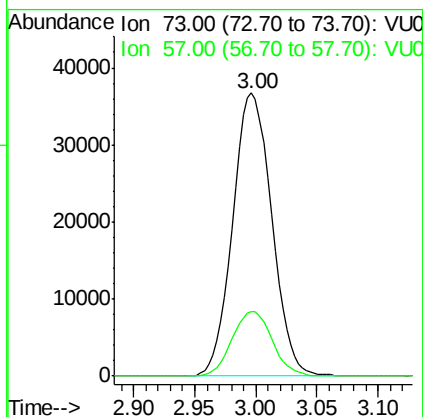
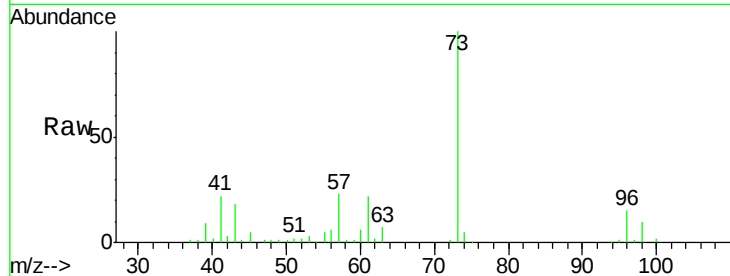




#19
Methyl tert-butyl Ether
Concen: 20.258 ug/l
RT: 3.00 min Scan# 567
Delta R.T. -0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

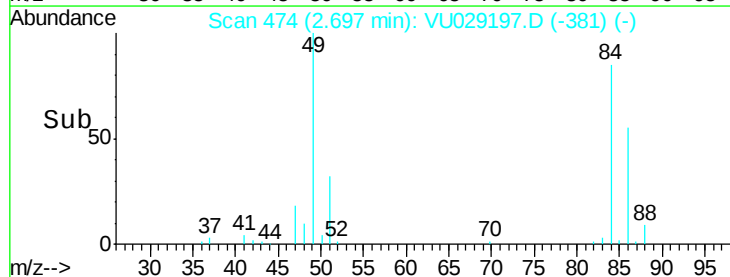
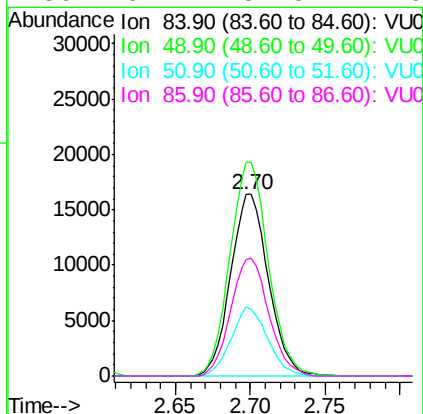
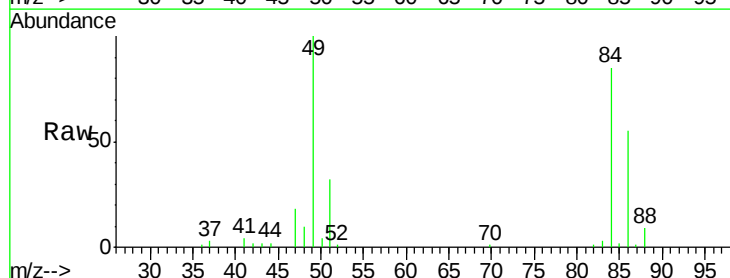
Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

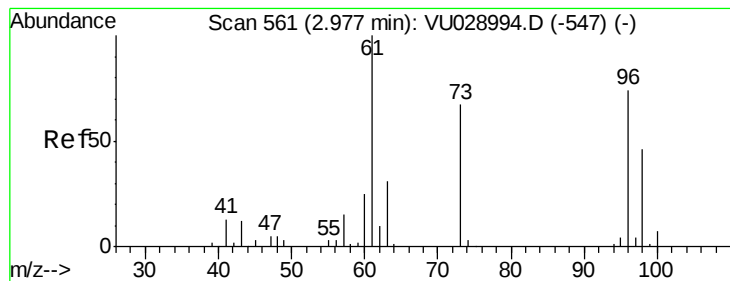
Tot Ion: 73 Resp: 81606
Ion Ratio Lower Upper
73 100
57 22.9 18.6 28.0



#20
Methylene Chloride
Concen: 19.742 ug/l
RT: 2.70 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 84 Resp: 28838
Ion Ratio Lower Upper
84 100
49 117.5 91.9 137.9
51 37.8 29.2 43.8
86 64.1 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 19.388 ug/l

RT: 2.98 min Scan# 562

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

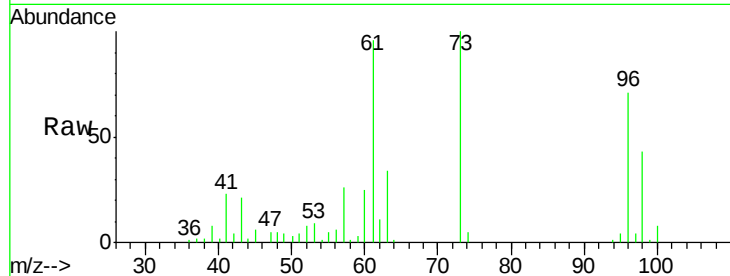
Tot Ion: 96 Resp: 25809

Ion Ratio Lower Upper

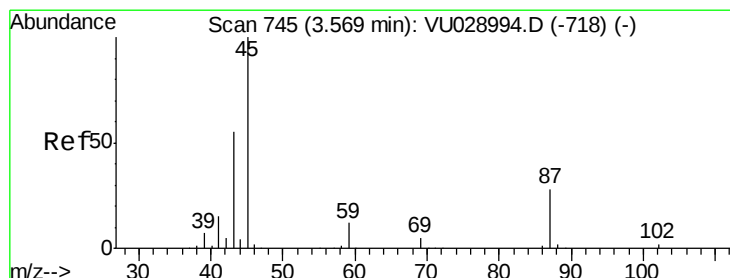
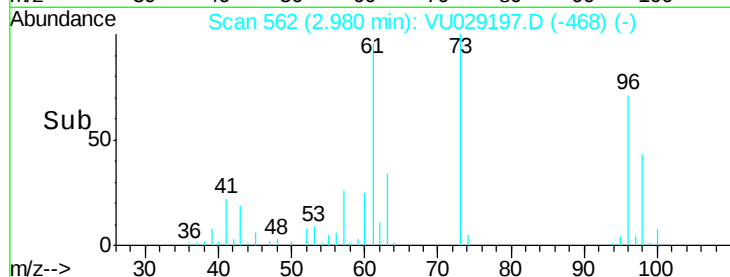
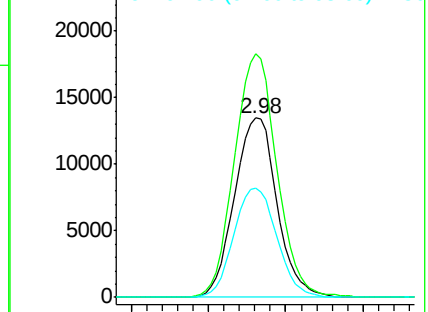
96 100

61 135.9 107.7 161.5

98 60.9 49.2 73.8



Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



#22

Diisopropyl ether

Concen: 21.116 ug/l

RT: 3.57 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Tgt Ion: 45 Resp: 87738

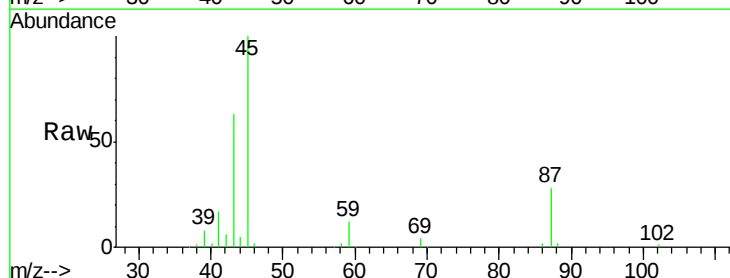
Ion Ratio Lower Upper

45 100

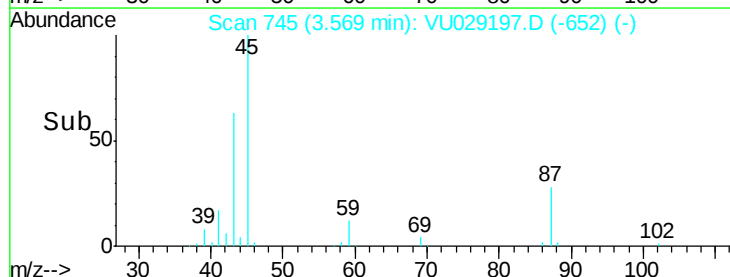
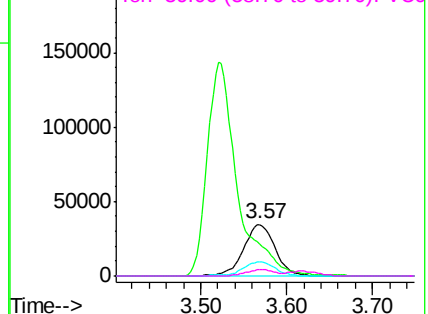
43 61.8 44.7 67.1

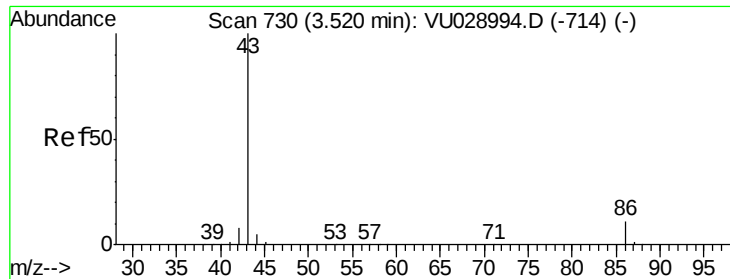
87 27.7 22.2 33.2

59 11.8 9.8 14.8



Abundance Ion 45.00 (44.70 to 45.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 87.00 (86.70 to 87.70): VU0
Ion 59.00 (58.70 to 59.70): VU0





#23

Vinyl Acetate

Concen: 103.681 ug/l

RT: 3.52 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

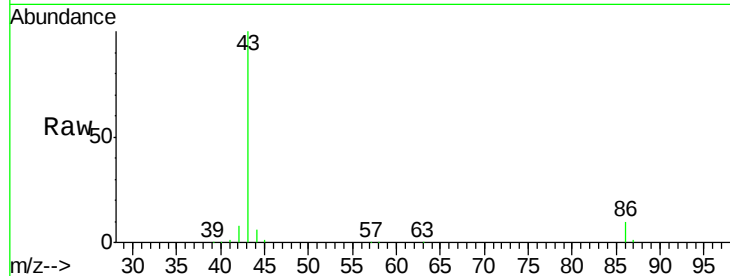
VU0116WBS01

Tot Ion: 43 Resp: 352180

Ion Ratio Lower Upper

43 100

86 10.2 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

3.52

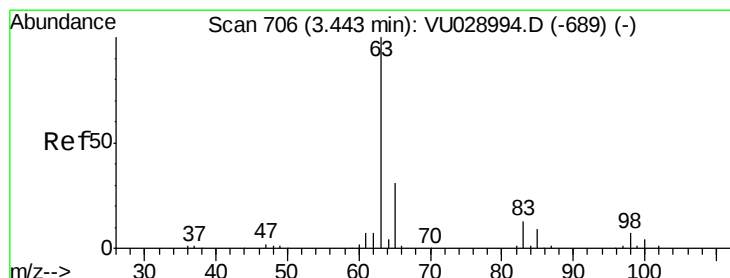
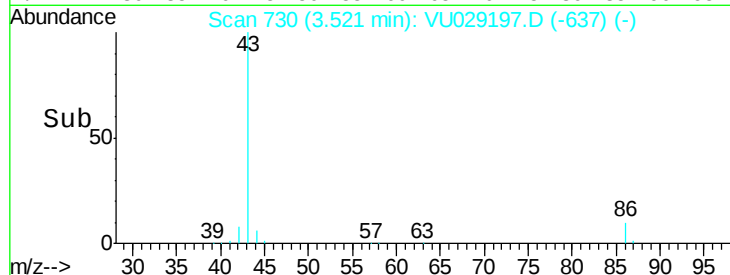
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 21.326 ug/l

RT: 3.44 min Scan# 706

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

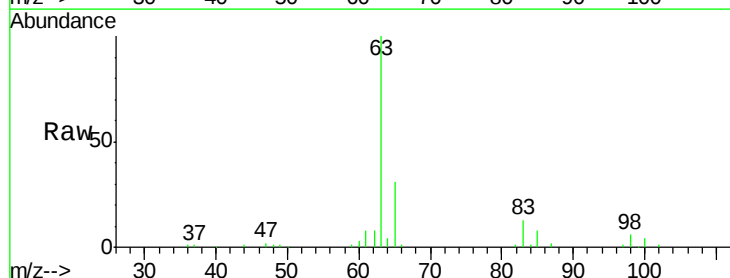
Tgt Ion: 63 Resp: 51152

Ion Ratio Lower Upper

63 100

98 6.2 3.4 10.1

100 4.3 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0

3.44

30000

25000

20000

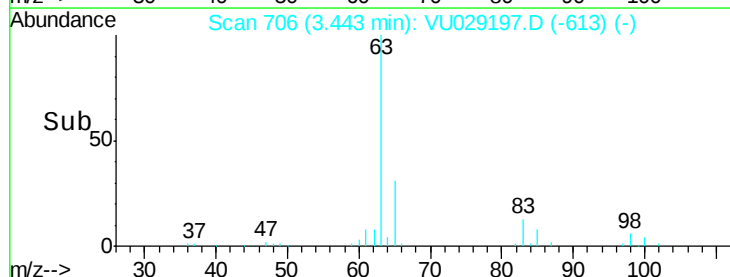
15000

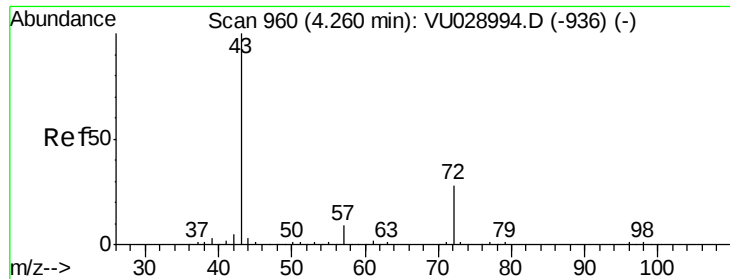
10000

5000

0

Time-->





#25

2-Butanone

Concen: 112.545 ug/l

RT: 4.26 min Scan# 959

Delta R.T. -0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

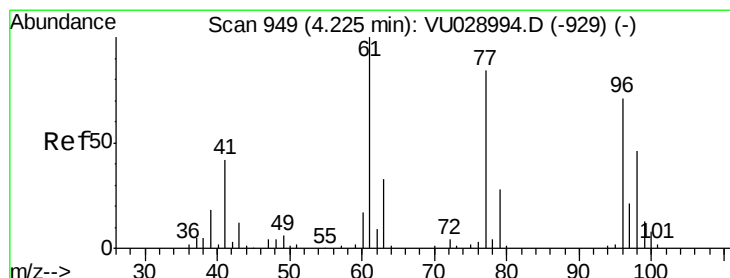
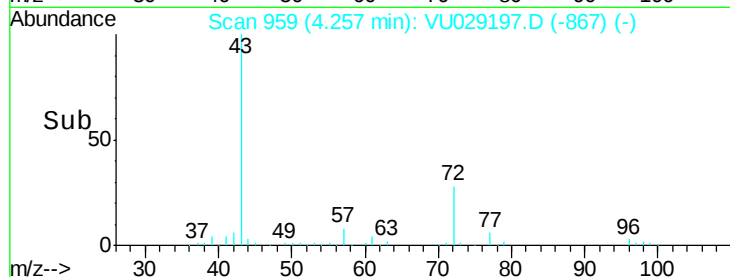
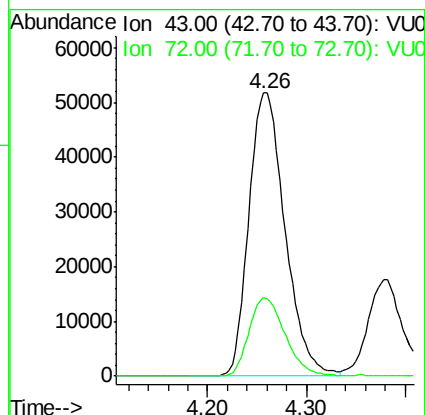
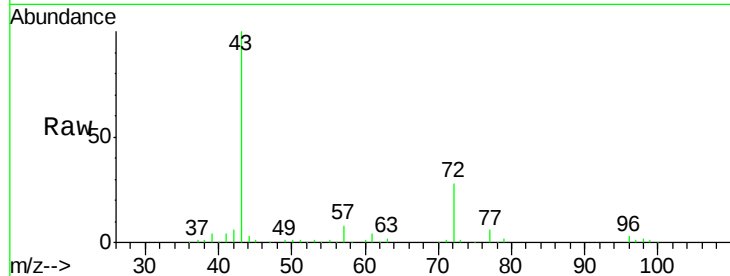
VU0116WBS01

Tot Ion: 43 Resp: 130780

Ion Ratio Lower Upper

43 100

72 27.5 22.6 33.8



#26

2,2-Dichloropropane

Concen: 21.130 ug/l

RT: 4.22 min Scan# 949

Delta R.T. 0.00 min

Lab File: VU029197.D

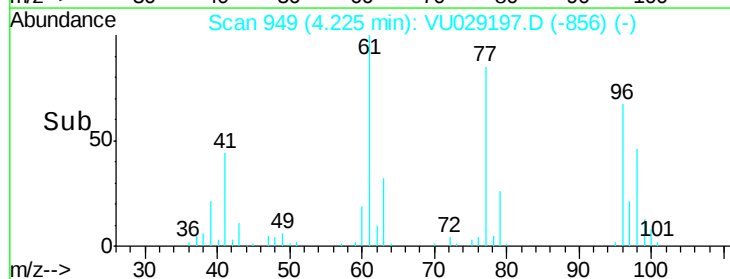
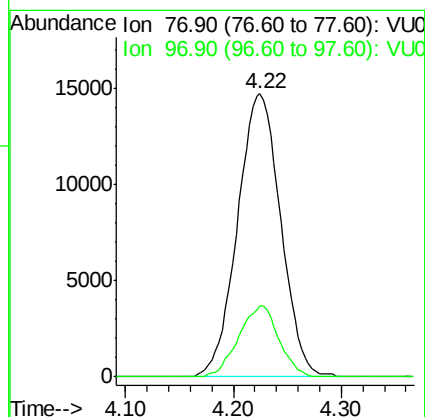
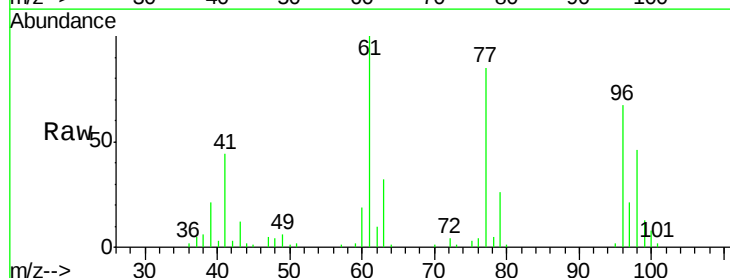
Acq: 16 Jan 2019 10:13

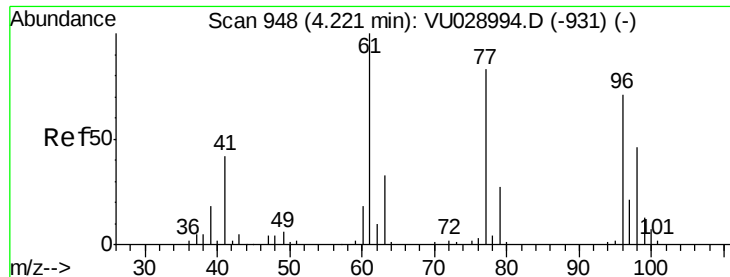
Tgt Ion: 77 Resp: 40953

Ion Ratio Lower Upper

77 100

97 23.4 12.0 36.1



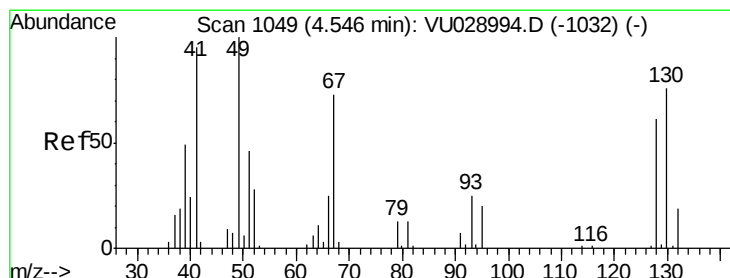
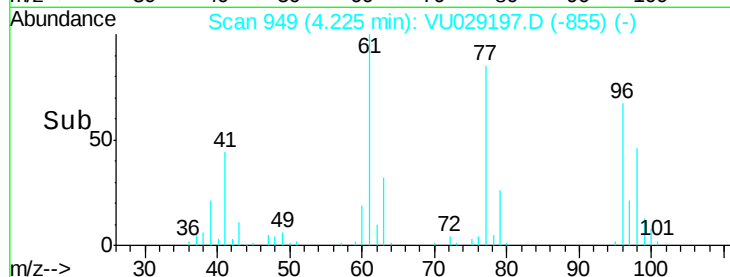
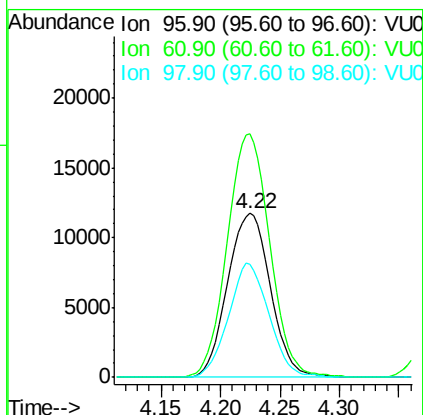
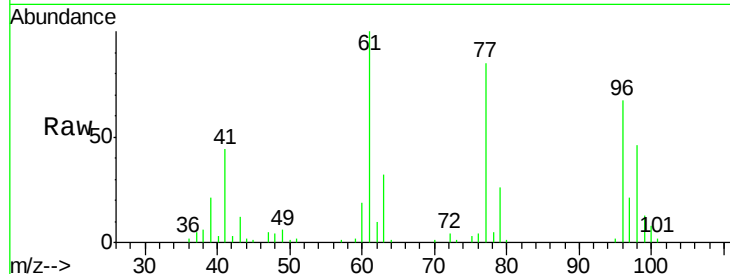


#27

cis-1,2-Dichloroethene
 Concen: 20.167 ug/l
 RT: 4.22 min Scan# 949
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

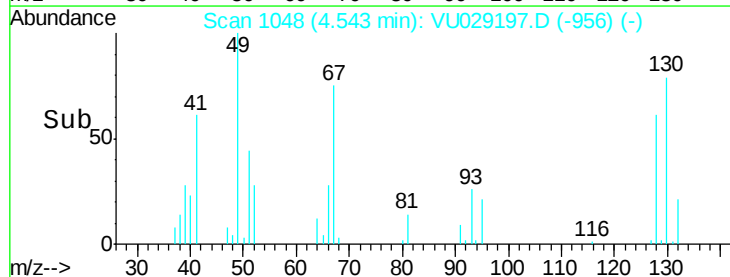
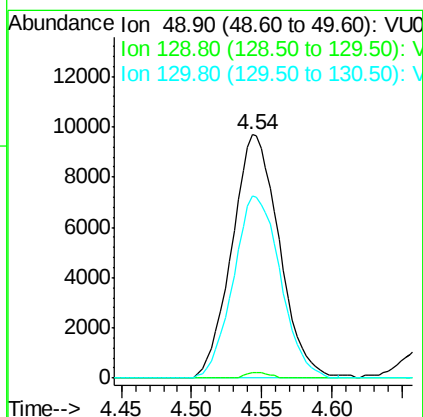
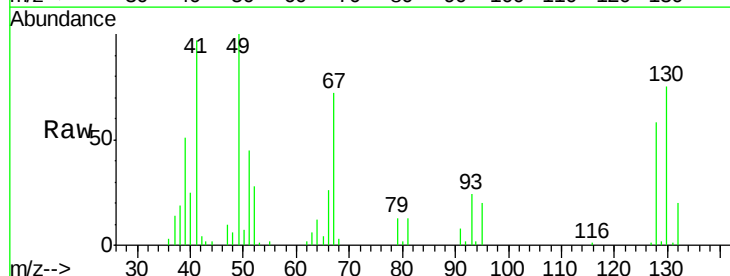
Tot Ion	96	Resp	29363
Ion	Ratio	Lower	Upper
96	100		
61	147.3	0.0	285.6
98	65.6	0.0	130.2

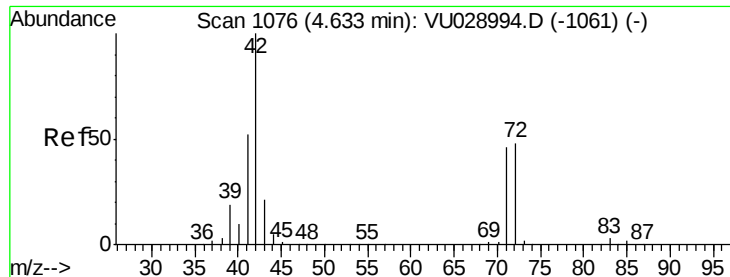


#28

Bromochloromethane
 Concen: 22.120 ug/l
 RT: 4.54 min Scan# 1048
 Delta R.T. -0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion	49	Resp	22719
Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	3.4
130	74.4	62.9	94.3

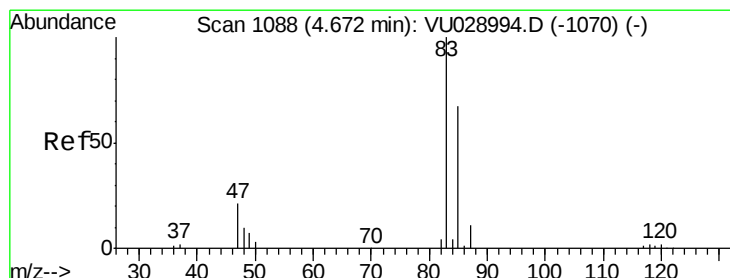
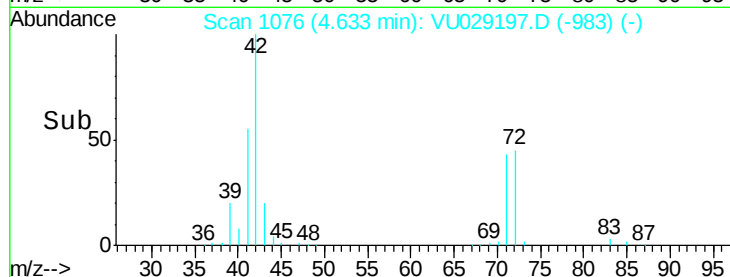
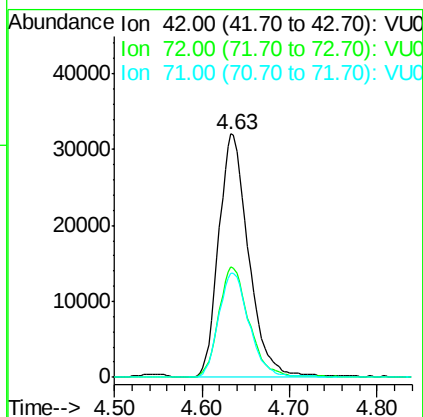
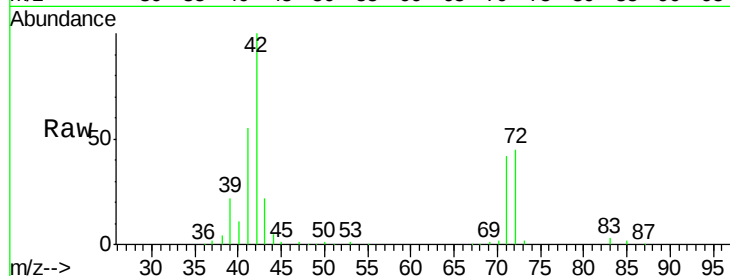




#29
Tetrahydrofuran
Concen: 108.457 ug/l
RT: 4.63 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

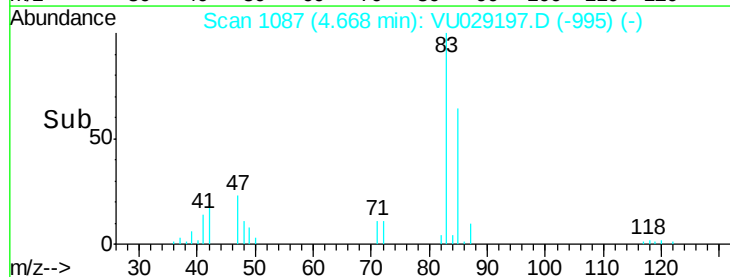
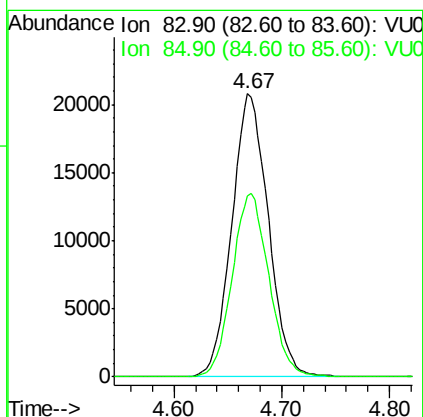
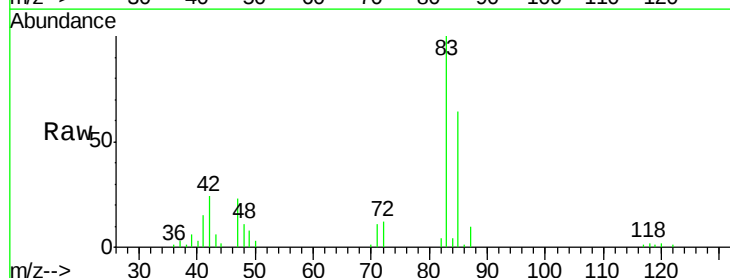
Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

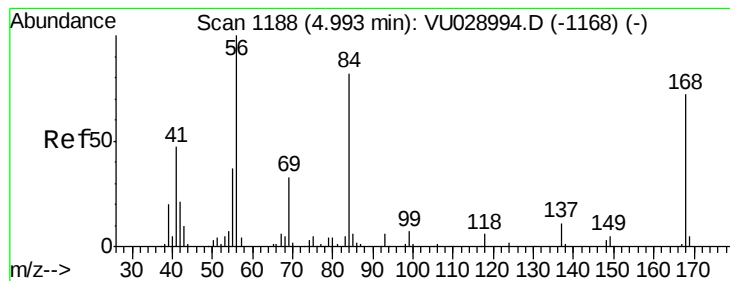
Tot Ion: 42 Resp: 76439
Ion Ratio Lower Upper
42 100
72 45.7 38.3 57.5
71 43.2 36.1 54.1



#30
Chloroform
Concen: 21.428 ug/l
RT: 4.67 min Scan# 1087
Delta R.T. -0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 83 Resp: 48954
Ion Ratio Lower Upper
83 100
85 63.8 53.4 80.0





#31

Cyclohexane

Concen: 19.867 ug/l

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

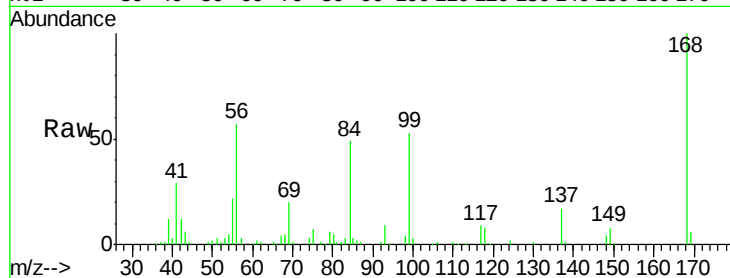
Tot Ion: 56 Resp: 46515

Ion Ratio Lower Upper

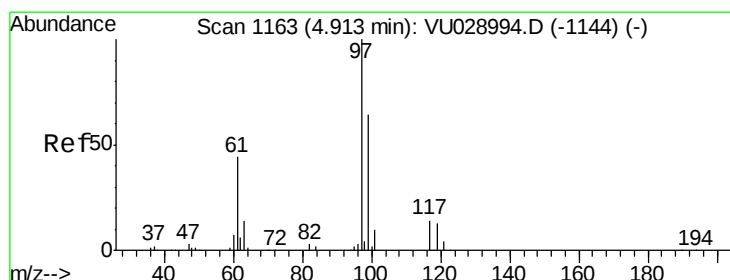
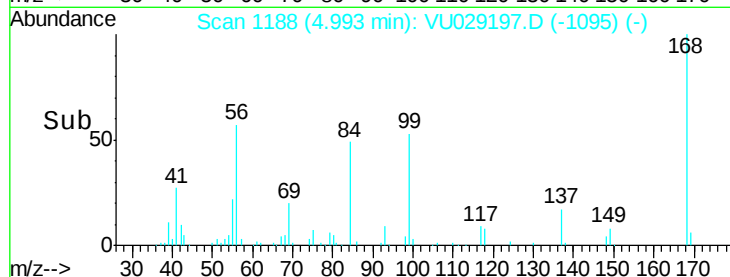
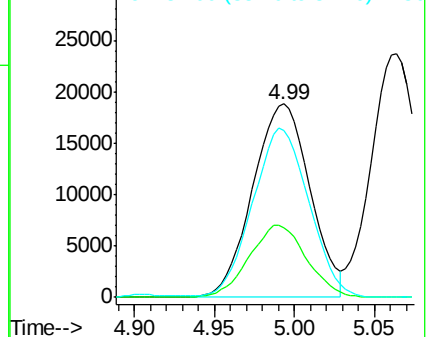
56 100

69 35.9 26.7 40.1

84 85.8 65.7 98.5



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



#32

1,1,1-Trichloroethane

Concen: 20.635 ug/l

RT: 4.91 min Scan# 1162

Delta R.T. -0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

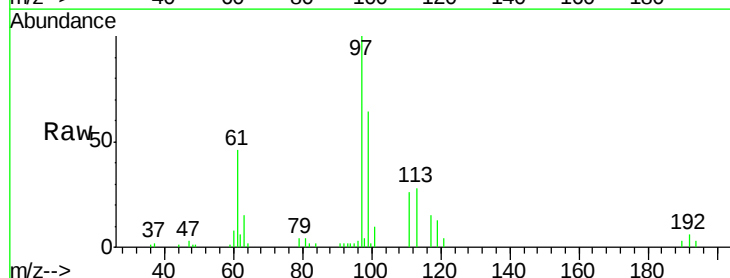
Tgt Ion: 97 Resp: 38953

Ion Ratio Lower Upper

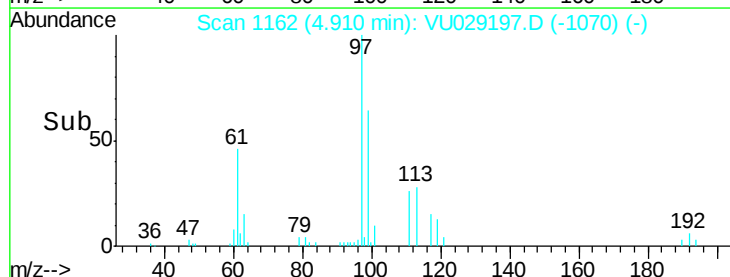
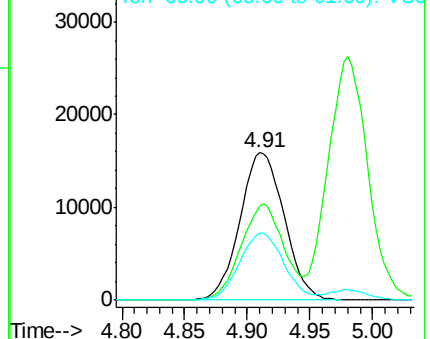
97 100

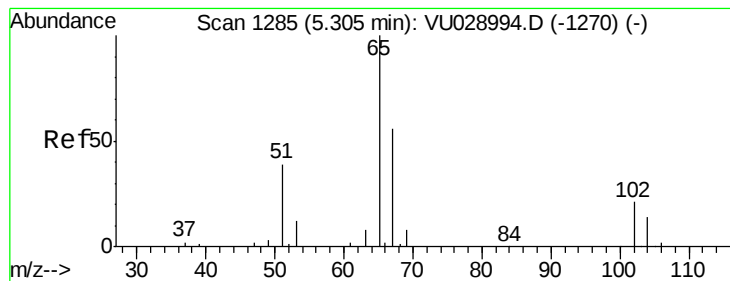
99 63.6 51.0 76.4

61 45.7 34.4 51.6



Abundance Ion 96.90 (96.60 to 97.60): VU0
Ion 98.90 (98.60 to 99.60): VU0
Ion 60.90 (60.60 to 61.60): VU0





#33

1,2-Dichloroethane-d4

Concen: 51.333 ug/l

RT: 5.31 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

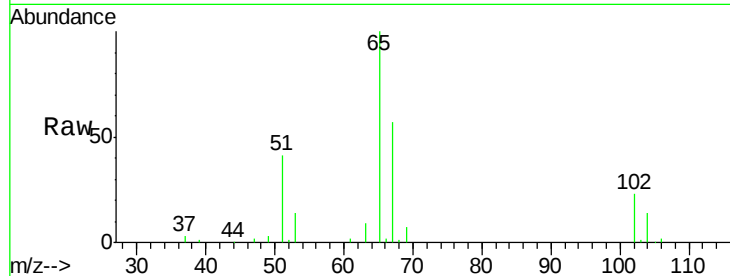
VU0116WBS01

Tot Ion: 65 Resp: 70106

Ion Ratio Lower Upper

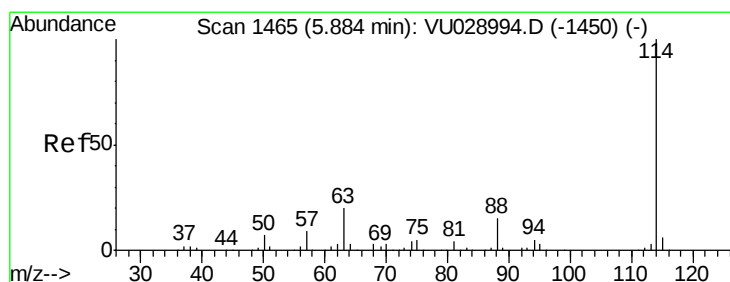
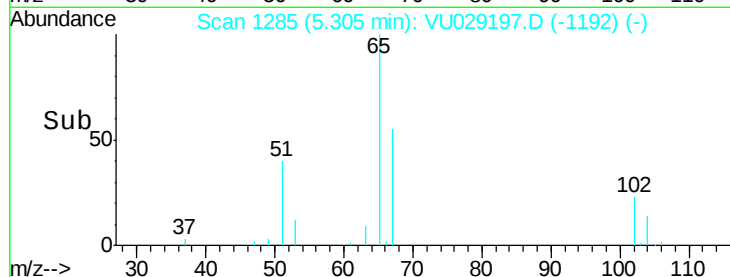
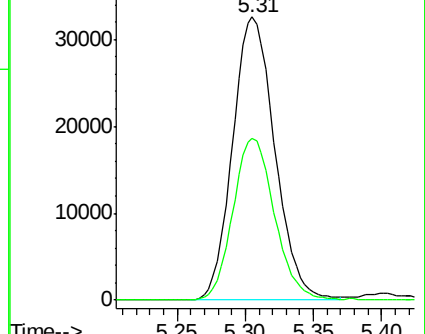
65 100

67 56.1 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.88 min Scan# 1465

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

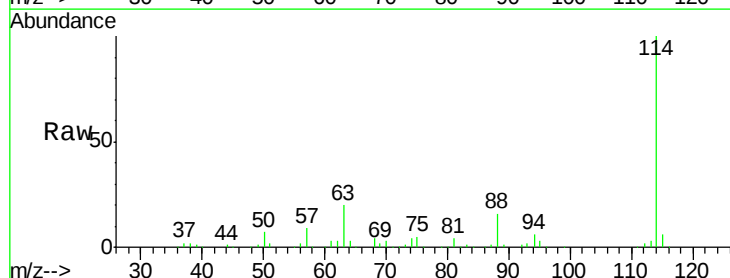
Tgt Ion: 114 Resp: 174726

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.2

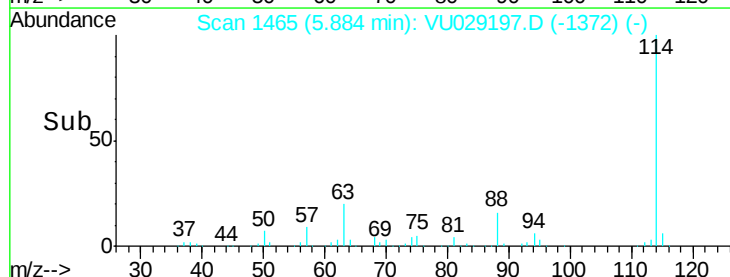
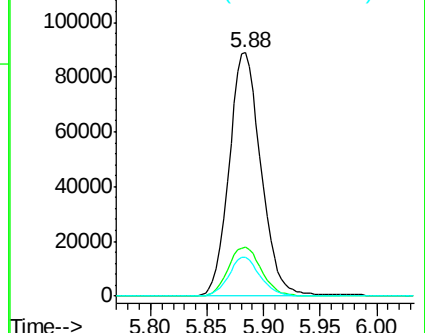
88 15.9 0.0 30.4

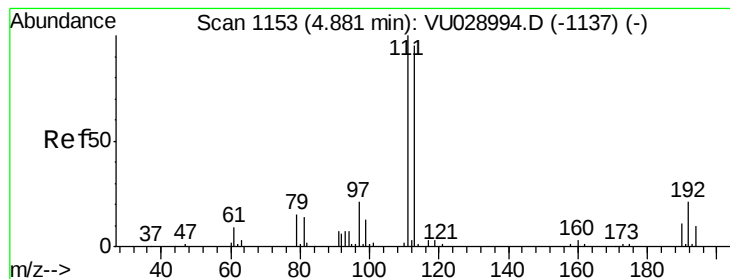


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0





#35

Dibromofluoromethane

Concen: 53.186 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

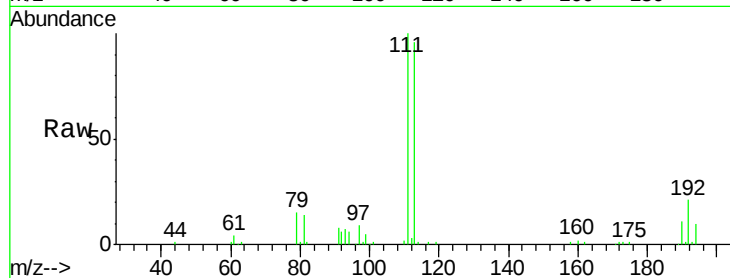
Tot Ion:113 Resp: 60240

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.2

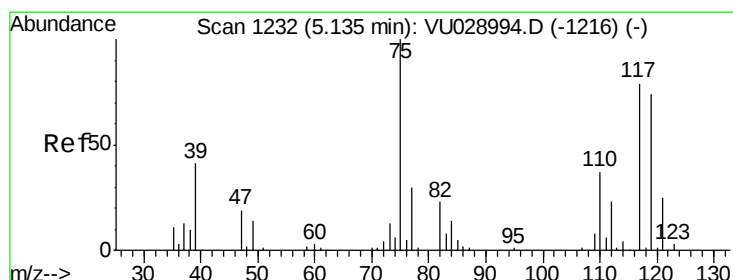
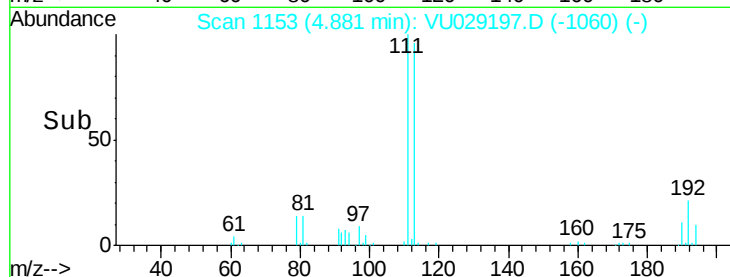
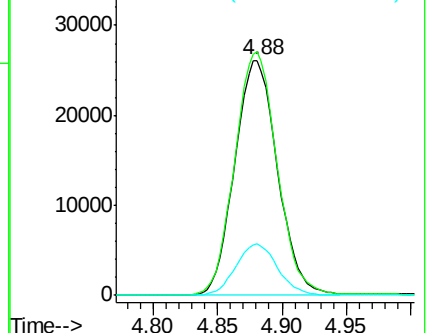
192 21.3 16.8 25.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 19.853 ug/l

RT: 5.13 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

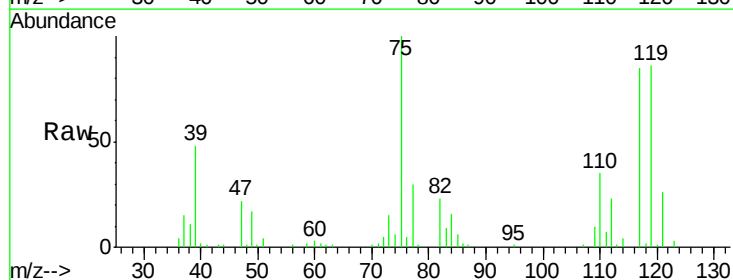
Tgt Ion: 75 Resp: 34672

Ion Ratio Lower Upper

75 100

110 36.8 18.4 55.4

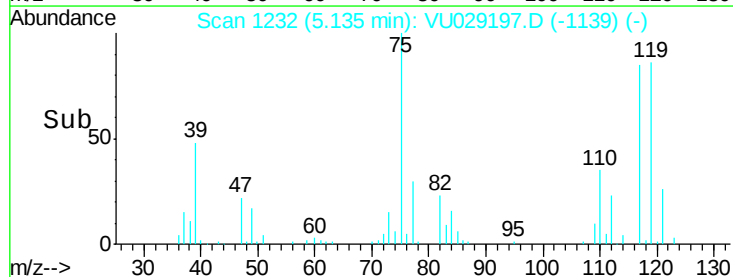
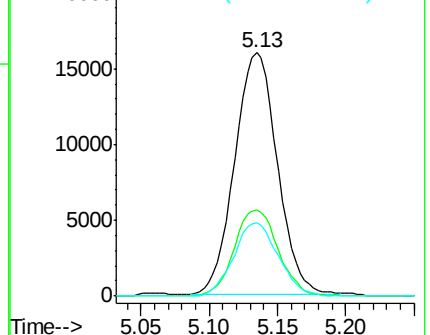
77 31.5 25.1 37.7

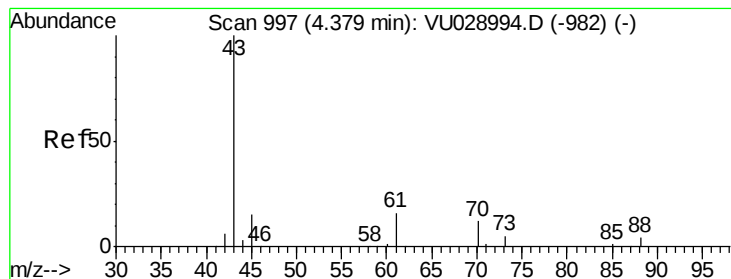


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#37

Ethyl Acetate

Concen: 22.429 ug/l

RT: 4.38 min Scan# 997

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

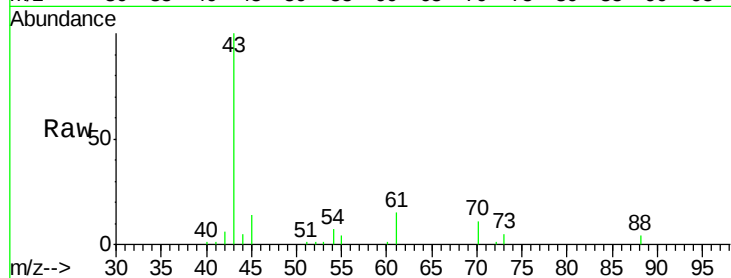
Tot Ion: 43 Resp: 42996

Ion Ratio Lower Upper

43 100

61 15.3 12.6 18.8

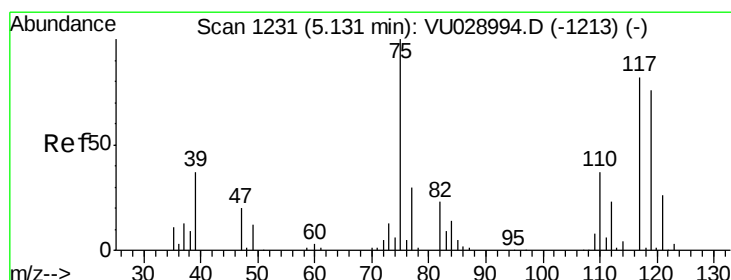
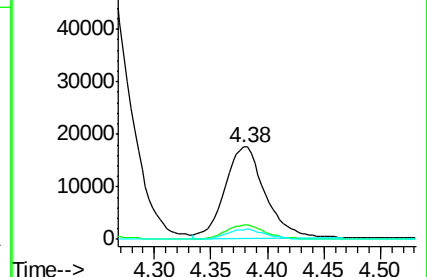
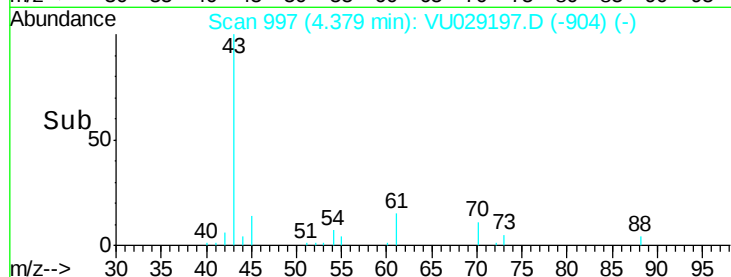
70 10.6 9.3 13.9



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-982) (-)

Ion 60.90 (60.60 to 61.60): VU028994.D (-982) (-)

Ion 70.00 (69.70 to 70.70): VU028994.D (-982) (-)



#38

Carbon Tetrachloride

Concen: 21.854 ug/l

RT: 5.13 min Scan# 1231

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

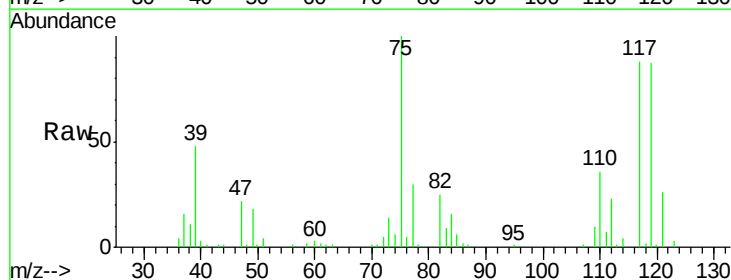
Tgt Ion: 117 Resp: 31834

Ion Ratio Lower Upper

117 100

119 98.7 74.6 111.8

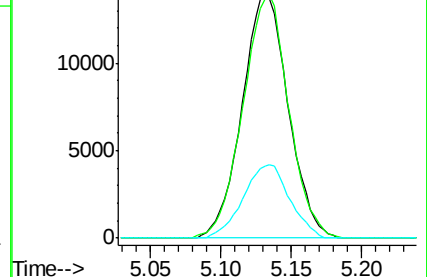
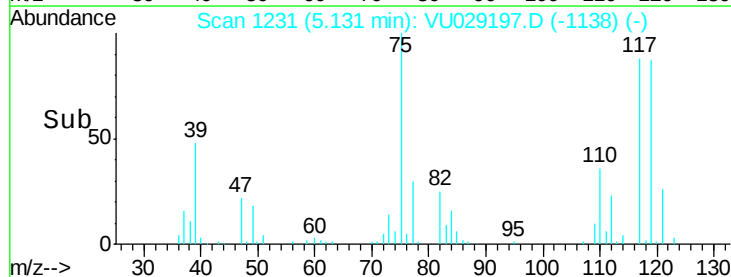
121 29.6 25.0 37.6

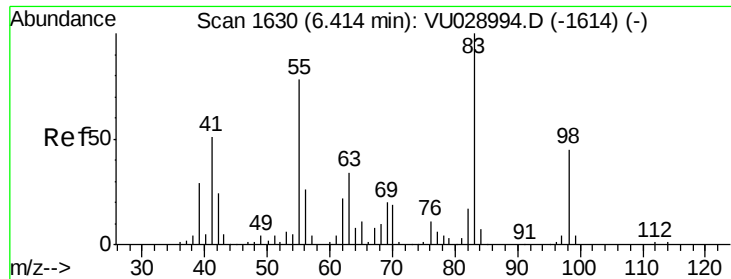


Abundance Ion 116.80 (116.50 to 117.50): VU028994.D (-1213) (-)

Ion 118.80 (118.50 to 119.50): VU028994.D (-1213) (-)

Ion 120.80 (120.50 to 121.50): VU028994.D (-1213) (-)

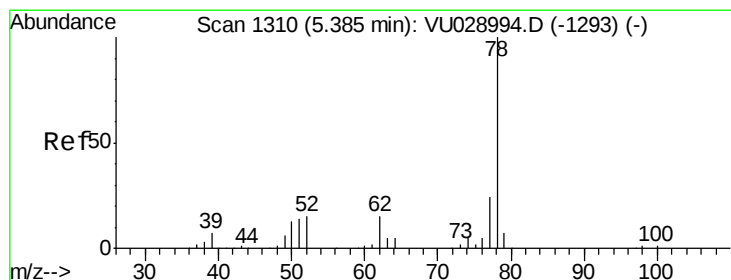
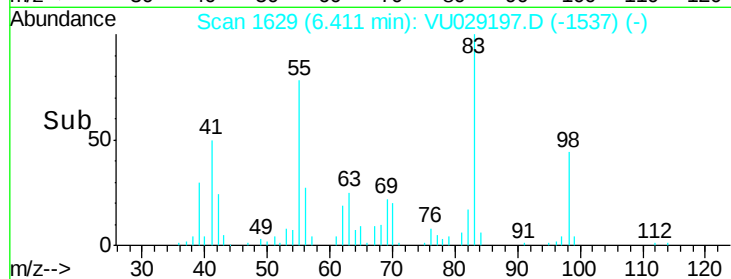
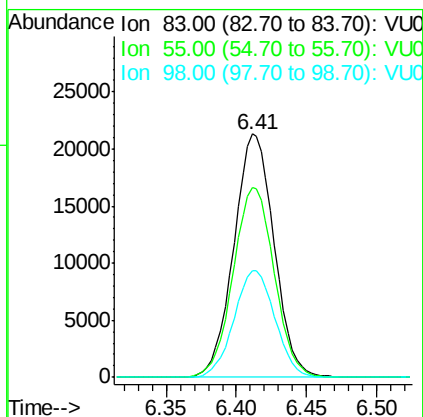
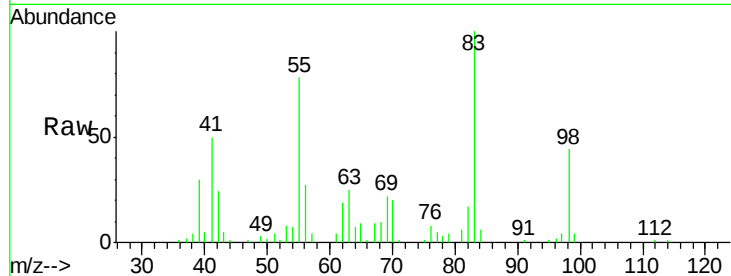




#39
Methvlcvclohexane
Concen: 19.830 ug/l
RT: 6.41 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

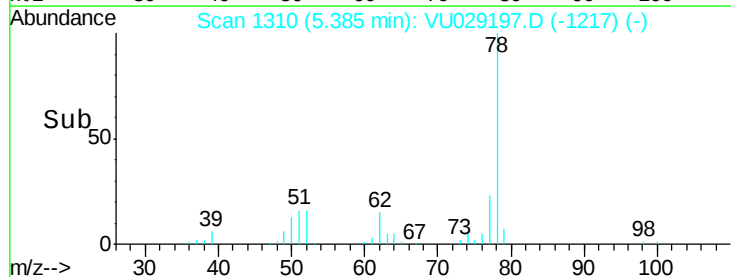
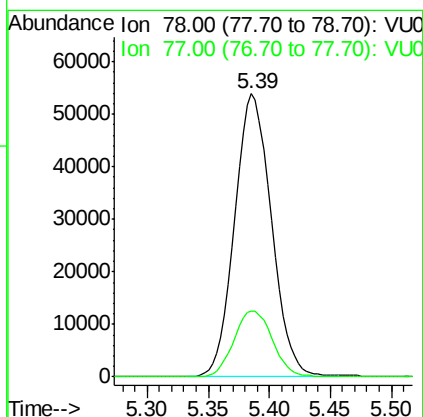
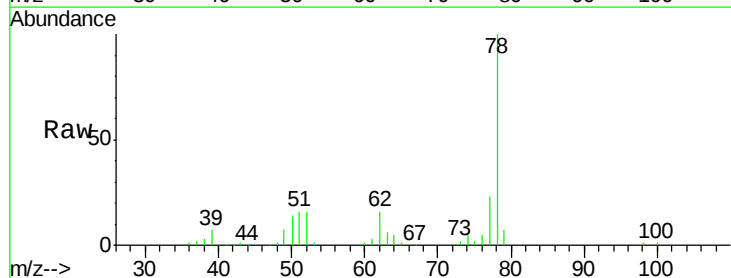
Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

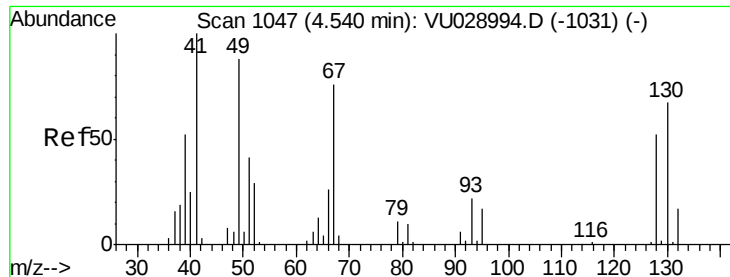
Tot Ion: 83 Resp: 42576
Ion Ratio Lower Upper
83 100
55 77.9 62.4 93.6
98 43.7 36.2 54.2



#40
Benzene
Concen: 20.719 ug/l
RT: 5.39 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 78 Resp: 112870
Ion Ratio Lower Upper
78 100
77 23.5 18.9 28.3

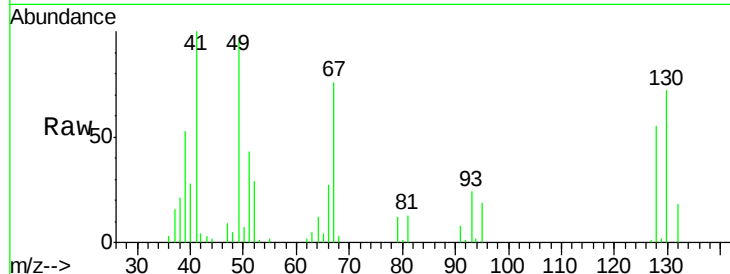




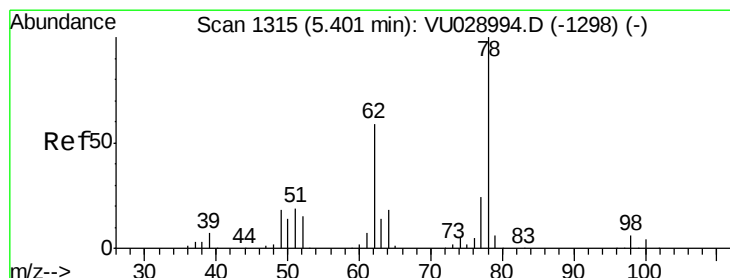
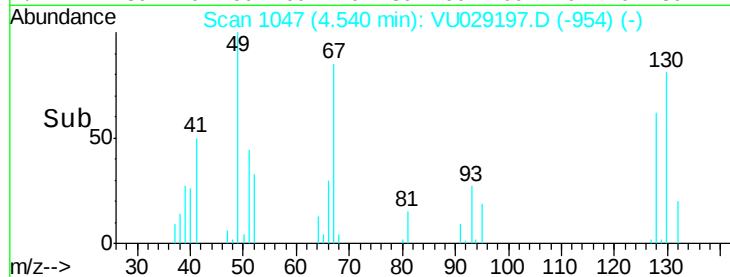
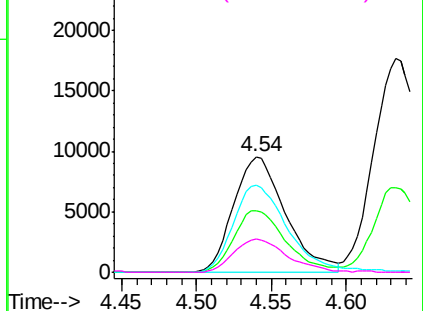
#41
Methacrylonitrile
Concen: 22.470 ug/l
RT: 4.54 min Scan# 1047
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion: 41 Resp: 23058
Ion Ratio Lower Upper
41 100
39 53.7 42.3 63.5
67 79.5 64.4 96.6
52 29.6 23.9 35.9

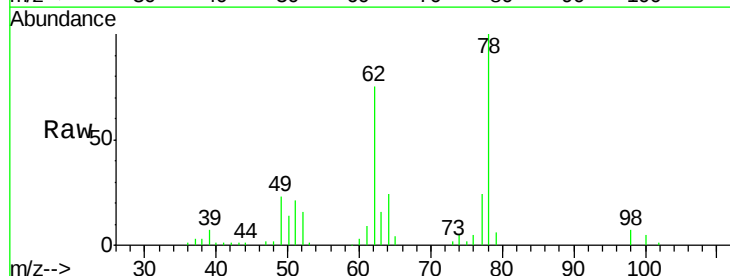


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 39.00 (38.70 to 39.70): VU0
Ion 67.00 (66.70 to 67.70): VU0
Ion 52.00 (51.70 to 52.70): VU0

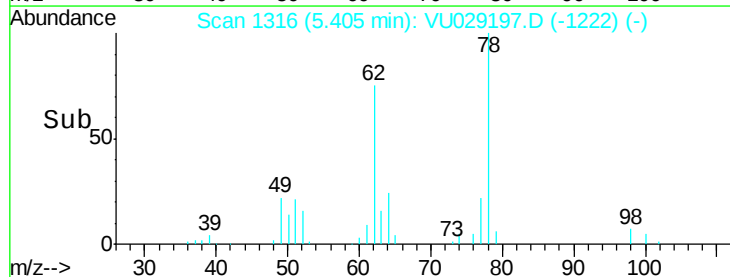
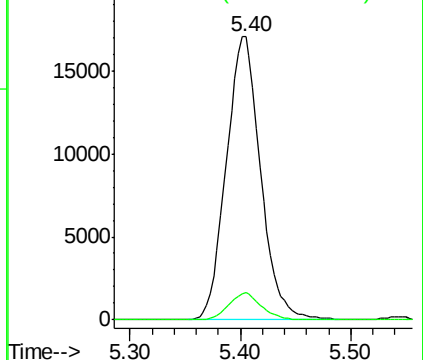


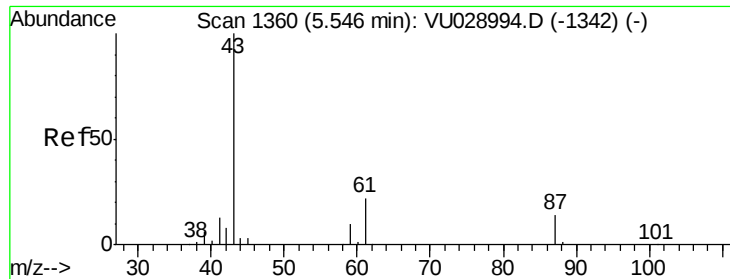
#42
1,2-Dichloroethane
Concen: 22.424 ug/l
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 62 Resp: 36708
Ion Ratio Lower Upper
62 100
98 8.9 0.0 19.6



Abundance Ion 61.90 (61.60 to 62.60): VU0
Ion 97.90 (97.60 to 98.60): VU0





#43

Isopropyl Acetate

Concen: 22.383 ug/l

RT: 5.55 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

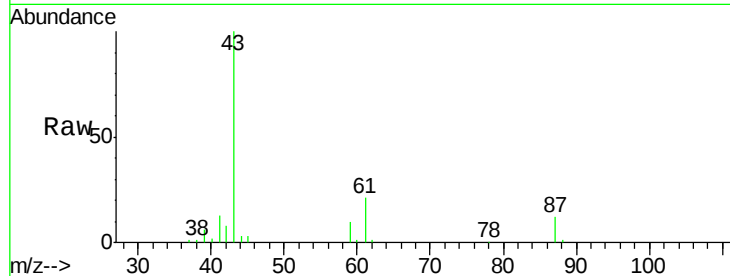
Tot Ion: 43 Resp: 65821

Ion Ratio Lower Upper

43 100

61 21.1 17.8 26.6

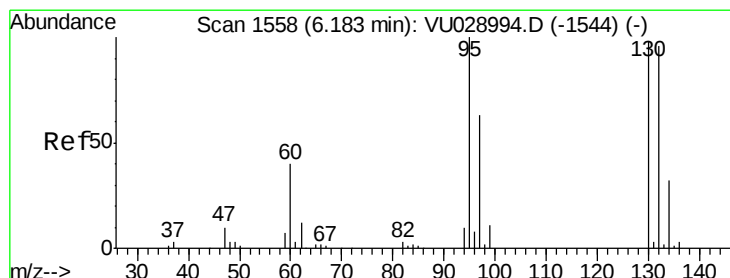
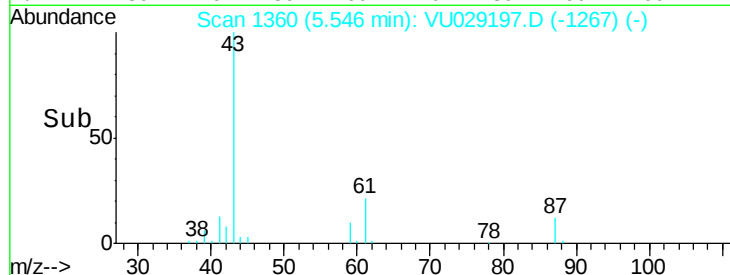
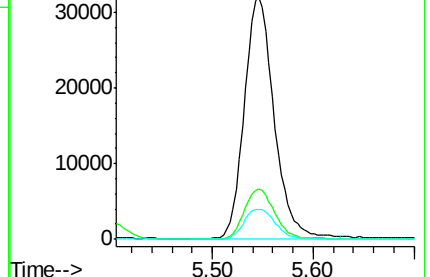
87 13.3 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-1342) (-)

Ion 61.00 (60.70 to 61.70): VU028994.D (-1342) (-)

Ion 87.00 (86.70 to 87.70): VU028994.D (-1342) (-)



#44

Trichloroethene

Concen: 20.427 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VU029197.D

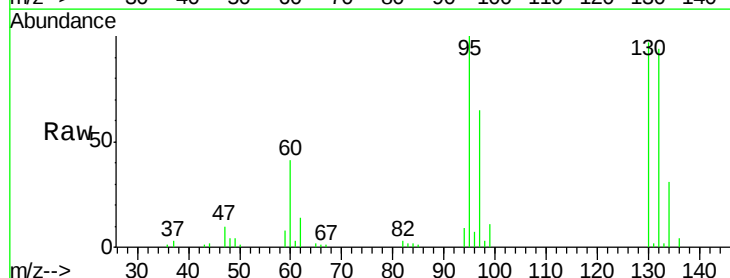
Acq: 16 Jan 2019 10:13

Tgt Ion: 130 Resp: 27572

Ion Ratio Lower Upper

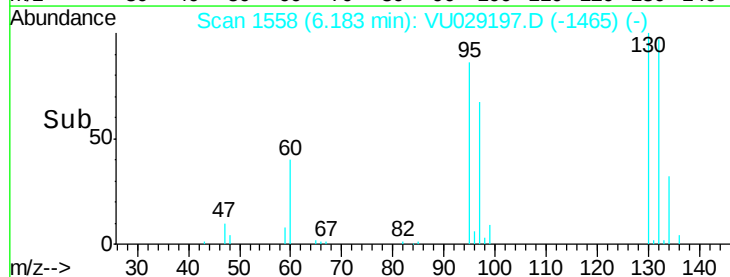
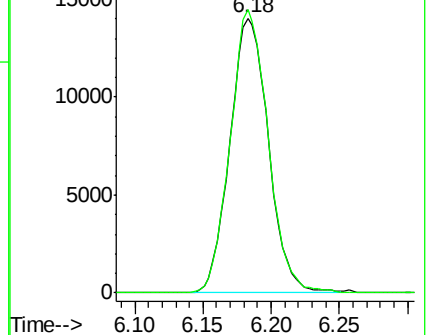
130 100

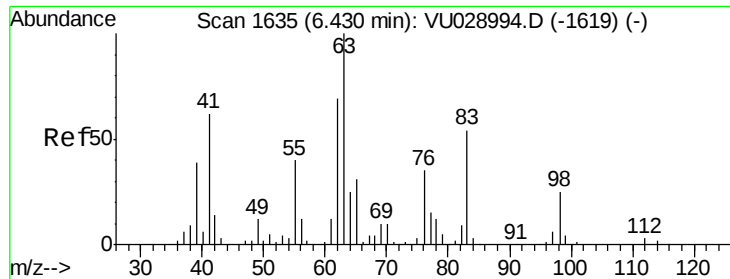
95 103.2 0.0 205.0



Abundance Ion 129.80 (129.50 to 130.50): VU028994.D (-1544) (-)

Ion 94.90 (94.60 to 95.60): VU028994.D (-1544) (-)





#45

1,2-Dichloropropane

Concen: 21.839 ug/l

RT: 6.43 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

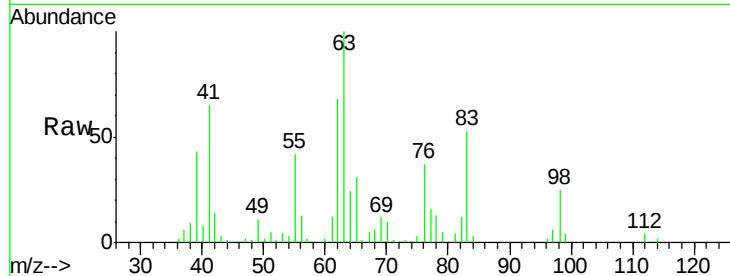
VU0116WBS01

Tot Ion: 63 Resp: 31418

Ion Ratio Lower Upper

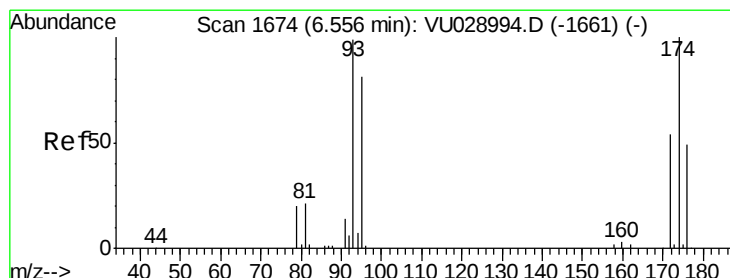
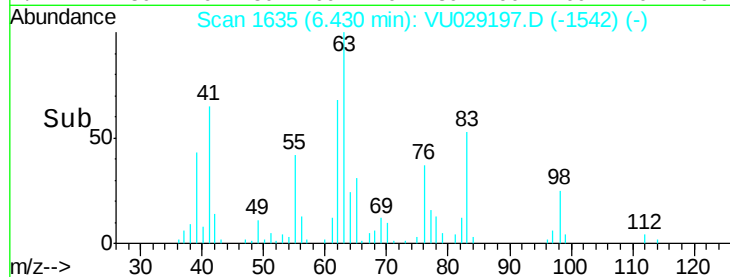
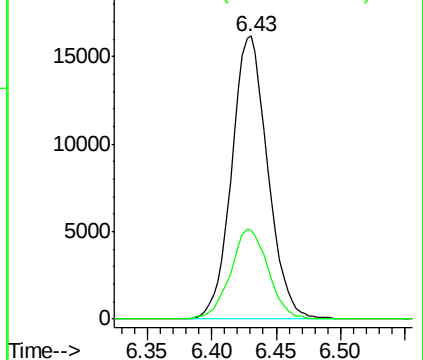
63 100

65 31.4 25.1 37.7



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



#46

Dibromomethane

Concen: 21.300 ug/l

RT: 6.56 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

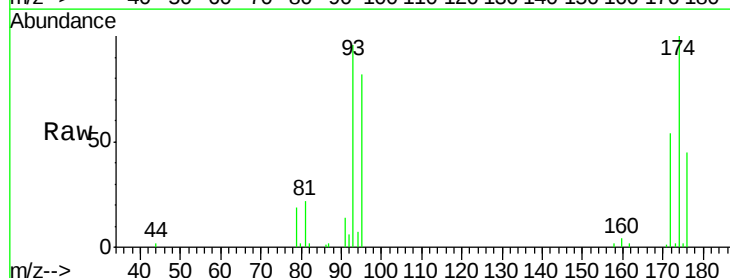
Tgt Ion: 93 Resp: 19589

Ion Ratio Lower Upper

93 100

95 85.6 67.2 100.8

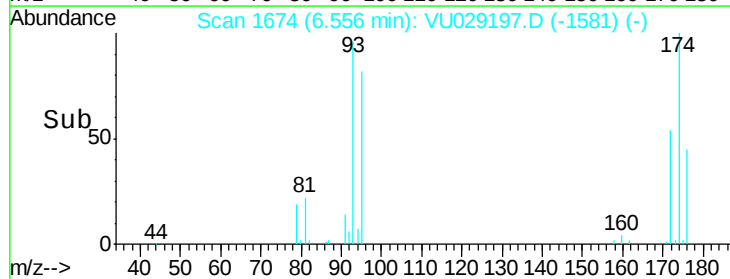
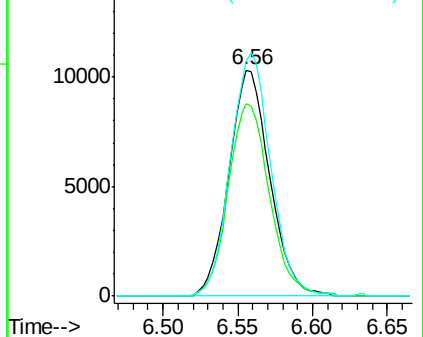
174 106.1 82.6 123.8

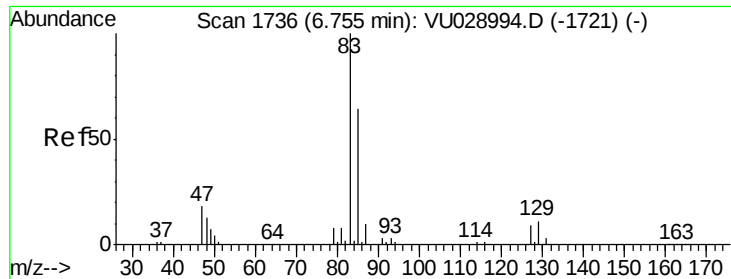


Abundance Ion 92.80 (92.50 to 93.50): VU0

Ion 94.80 (94.50 to 95.50): VU0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 22.386 ug/l

RT: 6.75 min Scan# 1735

Delta R.T. -0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

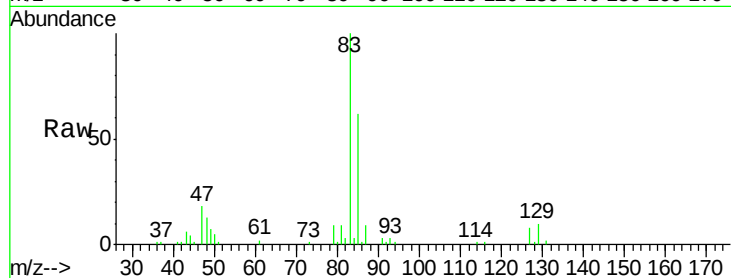
Tot Ion: 83 Resp: 37905

Ion Ratio Lower Upper

83 100

85 61.5 51.4 77.2

127 8.0 7.0 10.4

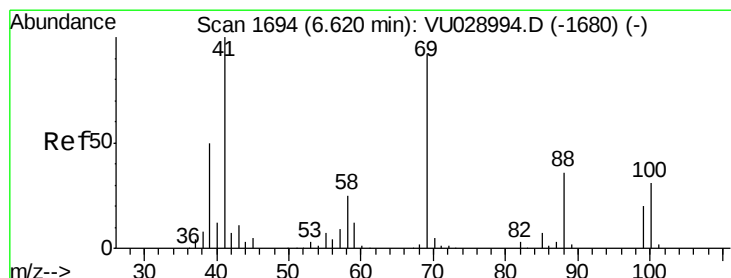
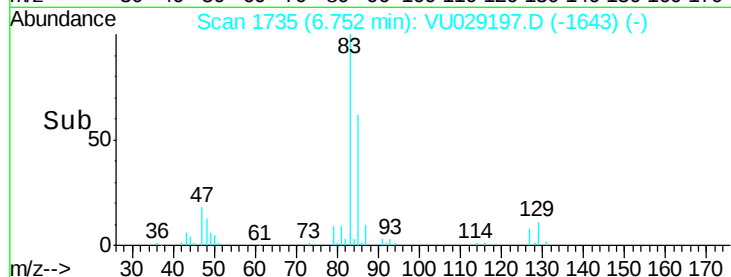


Abundance Ion 82.90 (82.60 to 83.60): VU028994.D (-1721) (-)

Ion 84.90 (84.60 to 85.60): VU028994.D (-1721) (-)

Ion 126.80 (126.50 to 127.50): VU028994.D (-1721) (-)

Time-->



#48

Methyl methacrylate

Concen: 22.289 ug/l

RT: 6.62 min Scan# 1694

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

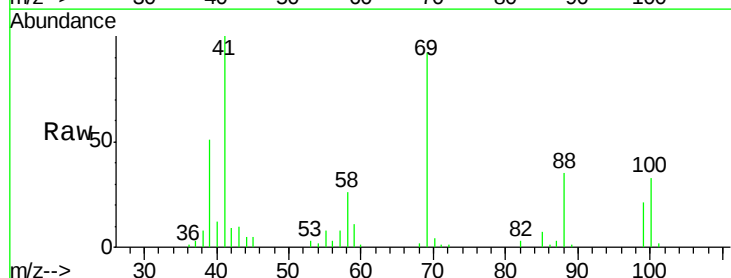
Tgt Ion: 41 Resp: 31916

Ion Ratio Lower Upper

41 100

69 91.5 73.6 110.4

39 50.6 39.6 59.4

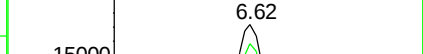
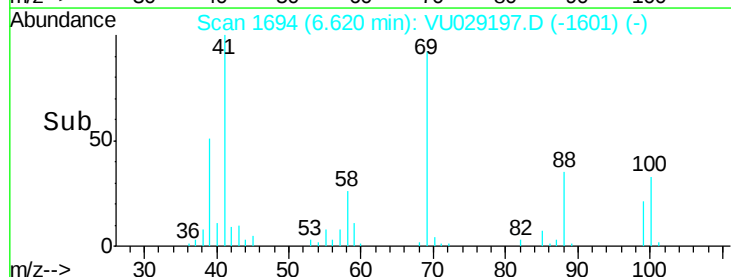


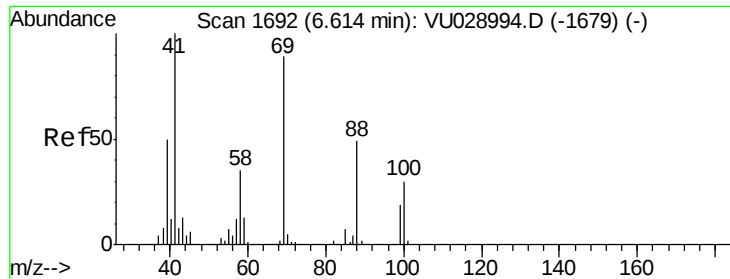
Abundance Ion 41.00 (40.70 to 41.70): VU028994.D (-1680) (-)

Ion 69.00 (68.70 to 69.70): VU028994.D (-1680) (-)

Ion 39.00 (38.70 to 39.70): VU028994.D (-1680) (-)

Time-->

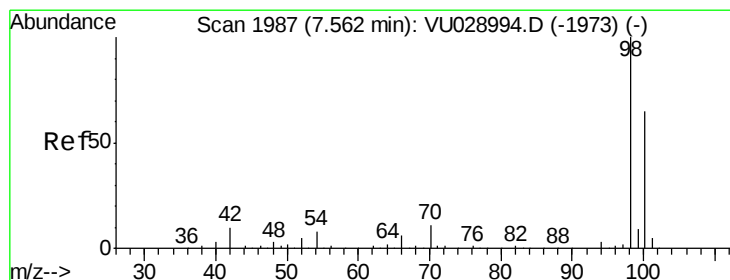
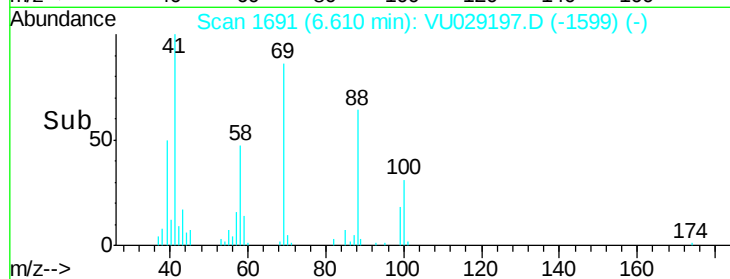
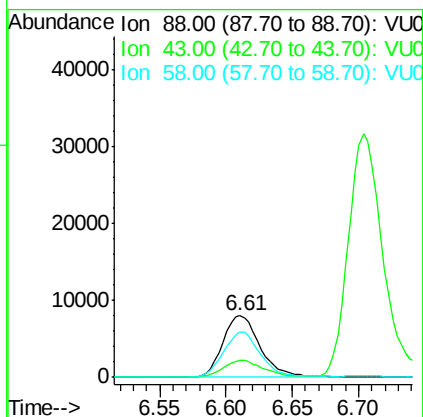
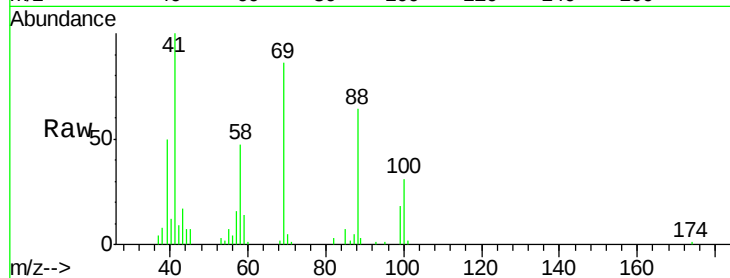




#49
1,4-Dioxane
Concen: 464.755 ug/l
RT: 6.61 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

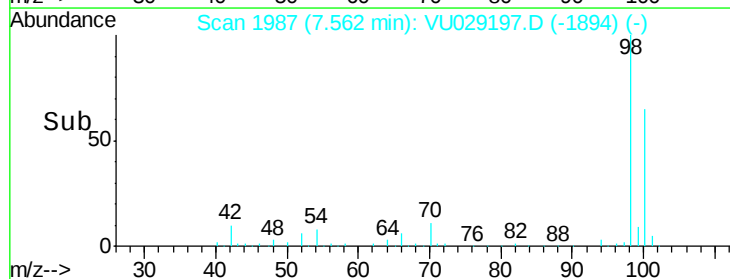
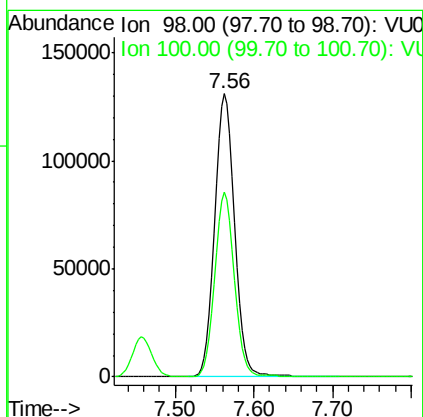
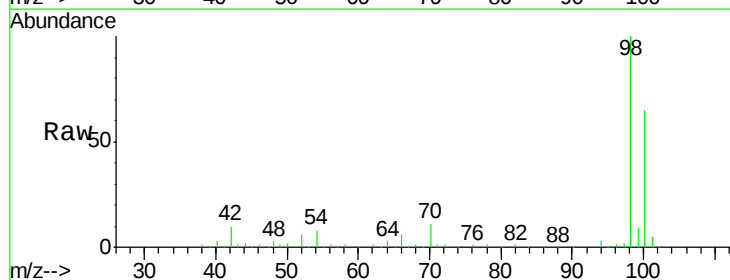
Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion: 88 Resp: 15771
Ion Ratio Lower Upper
88 100
43 30.0 23.0 34.4
58 73.7 57.9 86.9



#50
Toluene-d8
Concen: 51.368 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 98 Resp: 229689
Ion Ratio Lower Upper
98 100
100 63.7 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 111.511 ug/l

RT: 7.46 min Scan# 1954

Delta R.T. -0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

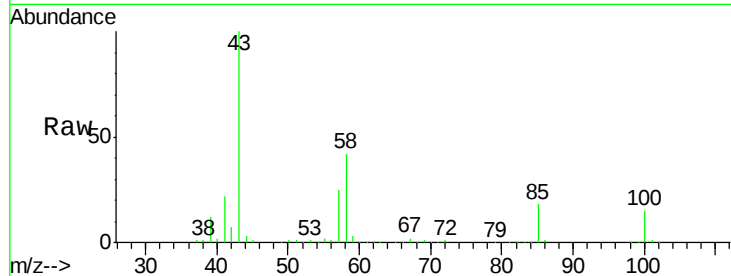
VU0116WBS01

Tot Ion: 43 Resp: 223170

Ion Ratio Lower Upper

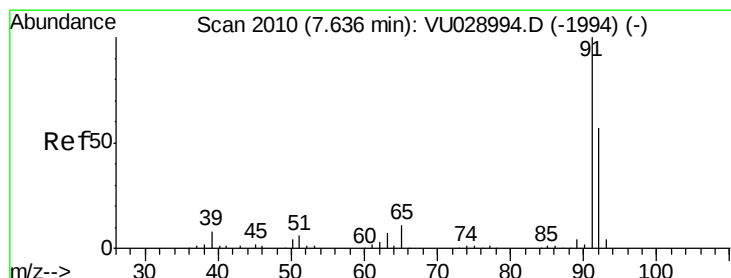
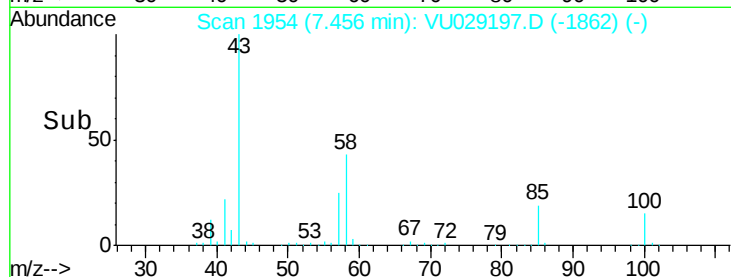
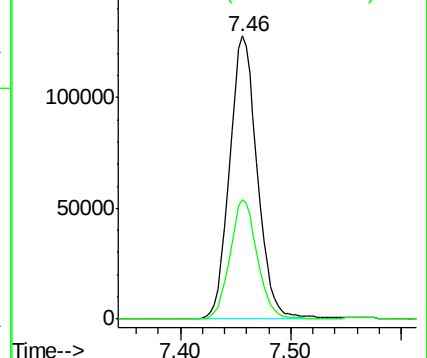
43 100

58 41.6 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#52

Toluene

Concen: 21.111 ug/l

RT: 7.63 min Scan# 2009

Delta R.T. -0.00 min

Lab File: VU029197.D

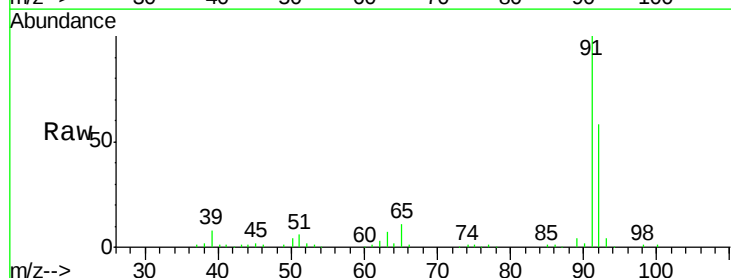
Acq: 16 Jan 2019 10:13

Tgt Ion: 92 Resp: 70014

Ion Ratio Lower Upper

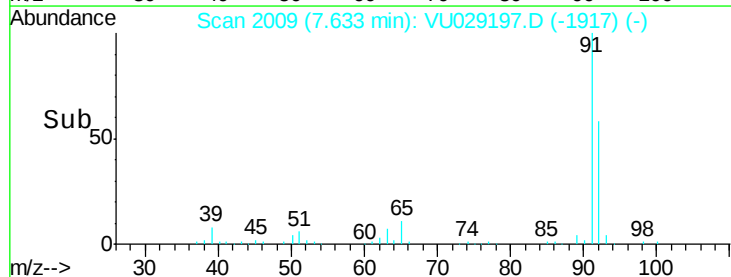
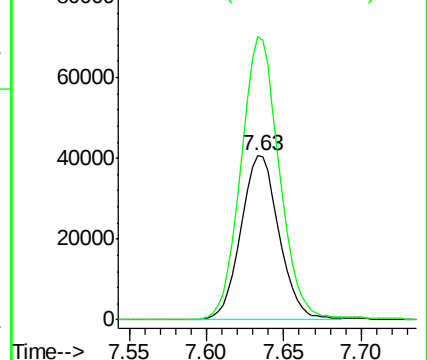
92 100

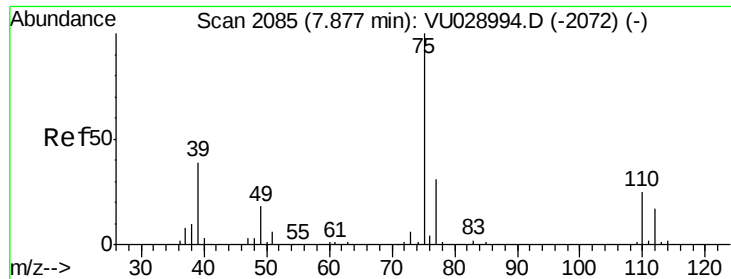
91 174.6 139.8 209.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

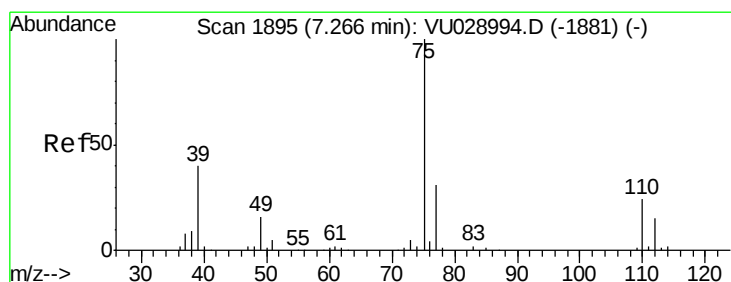
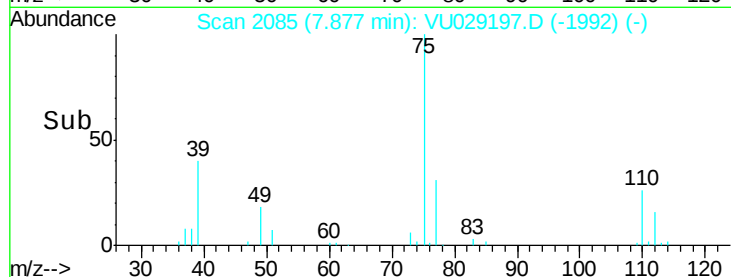
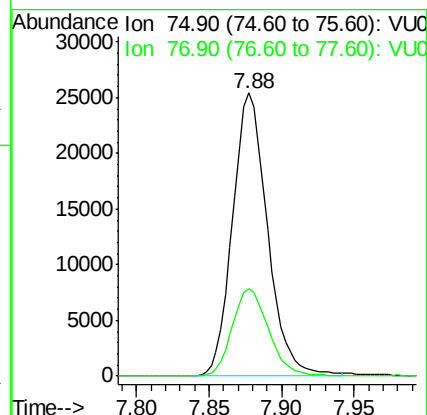
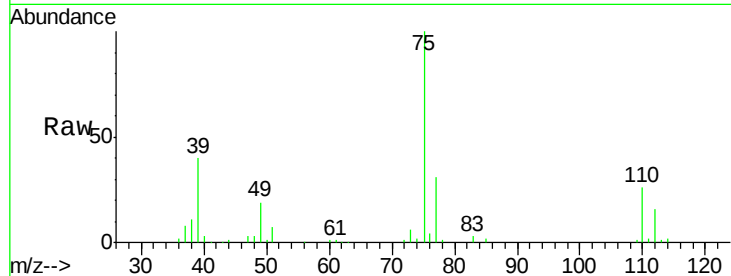




#53
t-1,3-Dichloropropene
Concen: 20.942 ug/l
RT: 7.88 min Scan# 2085
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

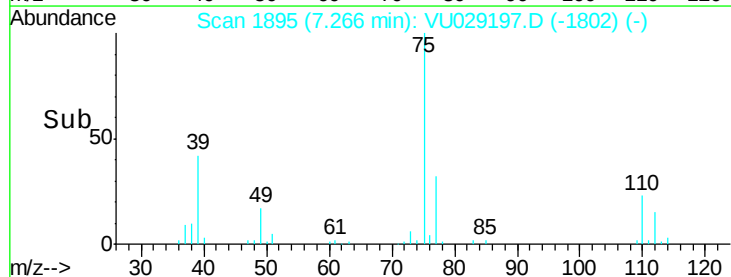
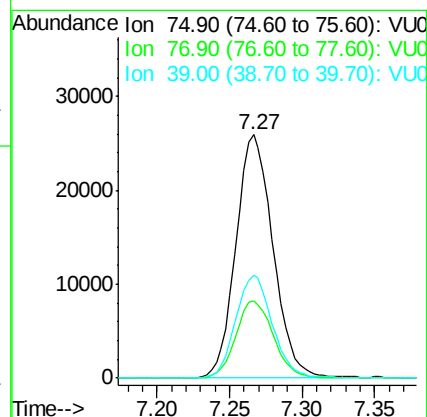
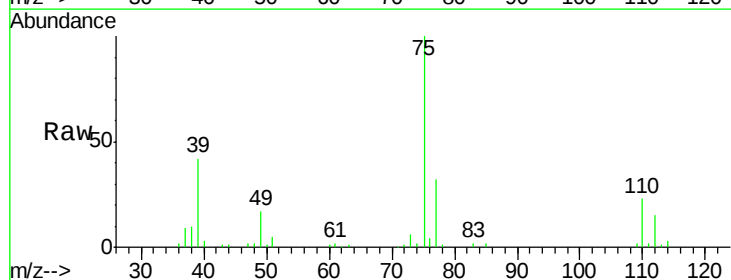
Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

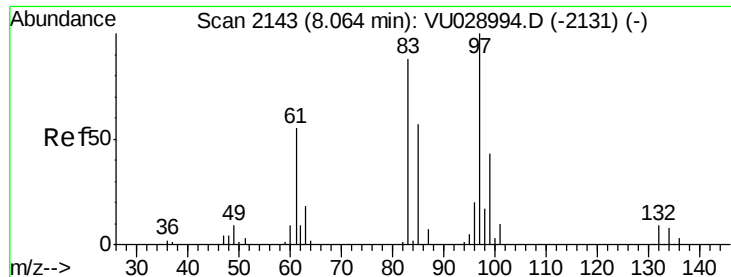
Tot Ion: 75 Resp: 42596
Ion Ratio Lower Upper
75 100
77 30.8 25.0 37.4



#54
cis-1,3-Dichloropropene
Concen: 21.017 ug/l
RT: 7.27 min Scan# 1895
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 75 Resp: 46193
Ion Ratio Lower Upper
75 100
77 31.8 25.0 37.6
39 42.5 32.2 48.4

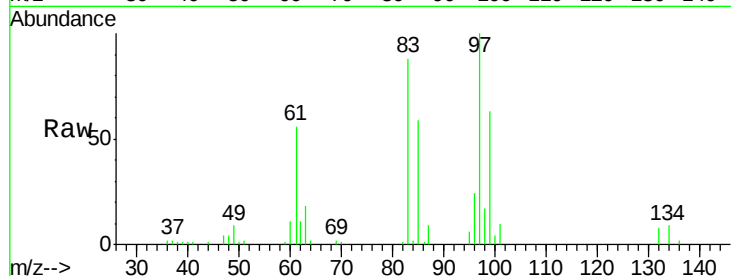




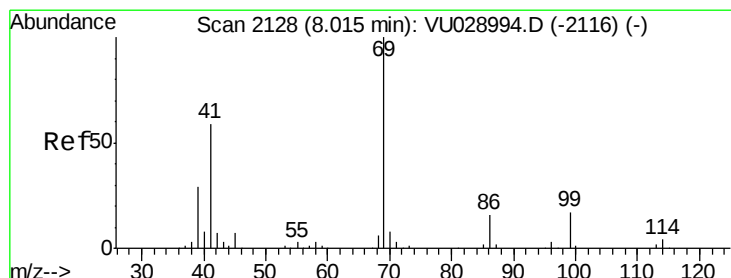
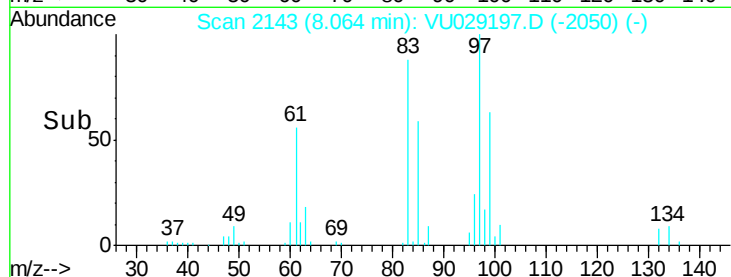
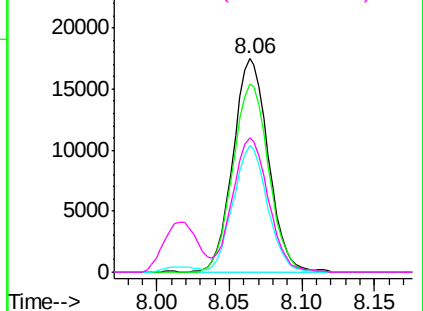
#55
 1,1,2-Trichloroethane
 Concen: 22.269 ug/l
 RT: 8.06 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

Tot Ion:	97	Resp:	29587
Ion	Ratio	Lower	Upper
97	100		
83	88.1	69.8	104.8
85	59.4	47.3	70.9
99	63.2	49.7	74.5

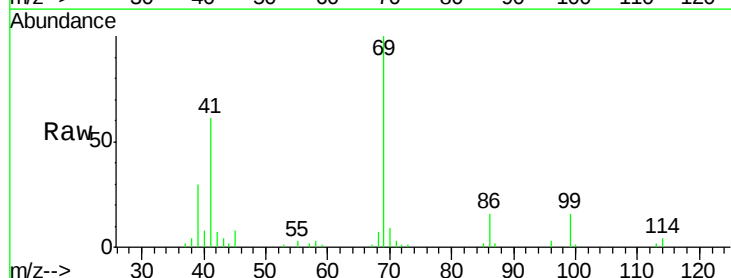


Abundance Ion 96.90 (96.60 to 97.60): VU0
 Ion 82.90 (82.60 to 83.60): VU0
 Ion 84.90 (84.60 to 85.60): VU0
 Ion 98.90 (98.60 to 99.60): VU0

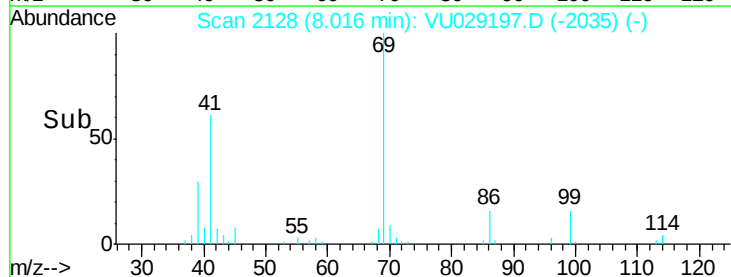
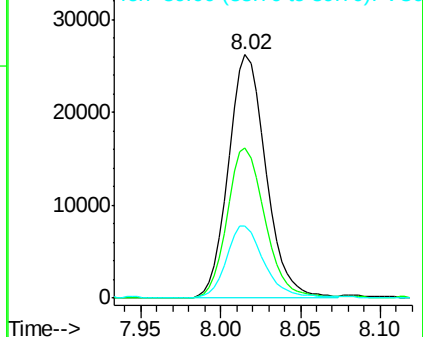


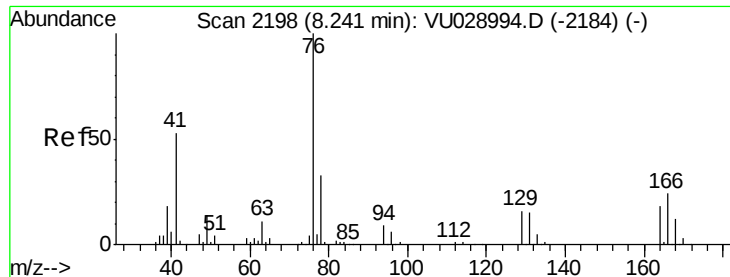
#56
 Ethyl methacrylate
 Concen: 20.519 ug/l
 RT: 8.02 min Scan# 2128
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion:	69	Resp:	41999
Ion	Ratio	Lower	Upper
69	100		
41	62.2	47.5	71.3
39	29.6	22.5	33.7



Abundance Ion 69.00 (68.70 to 69.70): VU0
 Ion 41.00 (40.70 to 41.70): VU0
 Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 21.734 ug/l

RT: 8.24 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

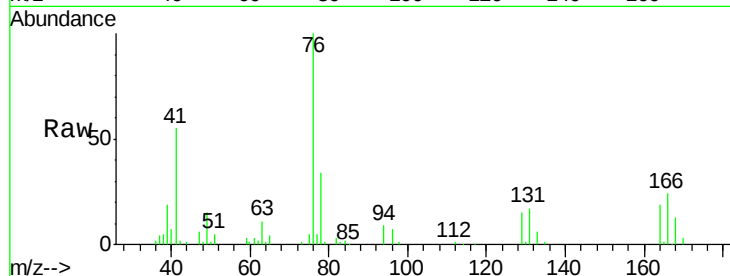
VU0116WBS01

Tot Ion: 76 Resp: 49410

Ion Ratio Lower Upper

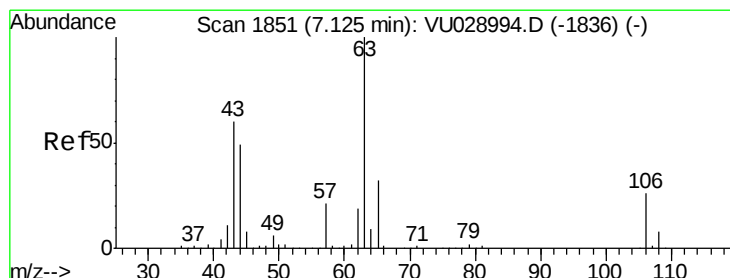
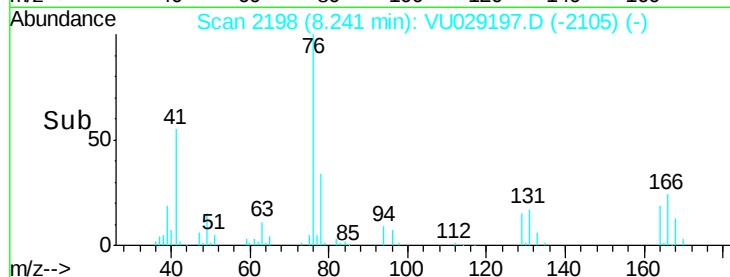
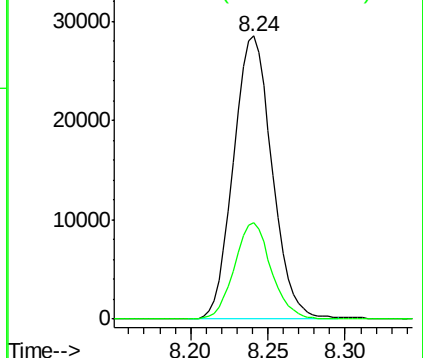
76 100

78 32.5 26.0 39.0



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#58

2-Chloroethyl Vinyl ether

Concen: 99.383 ug/l

RT: 7.12 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VU029197.D

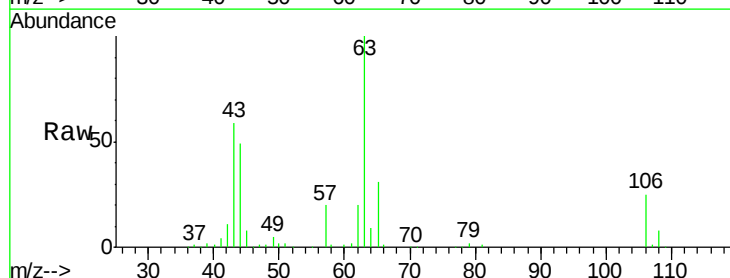
Acq: 16 Jan 2019 10:13

Tgt Ion: 63 Resp: 89462

Ion Ratio Lower Upper

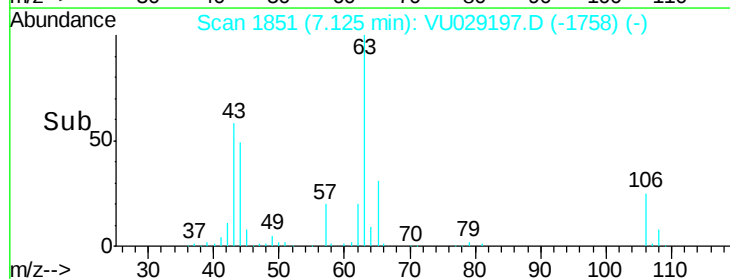
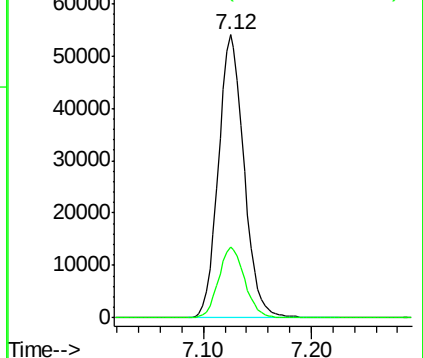
63 100

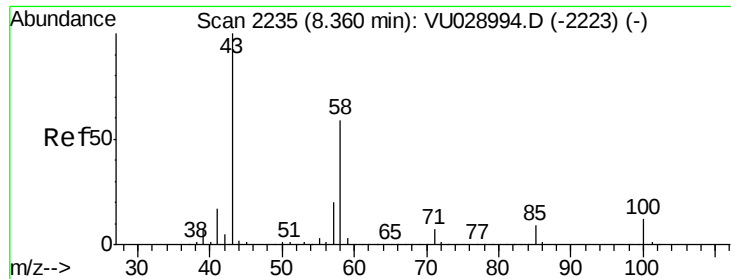
106 25.4 20.6 31.0



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V

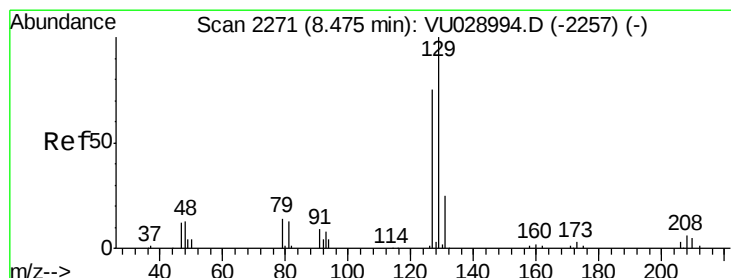
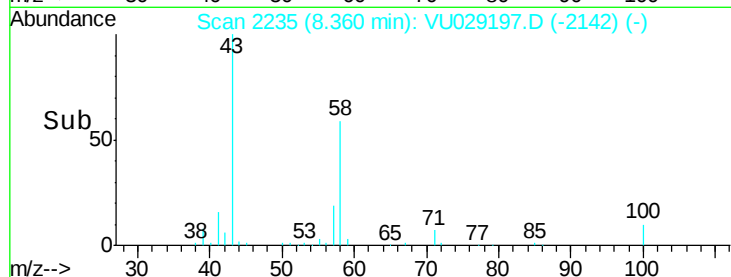
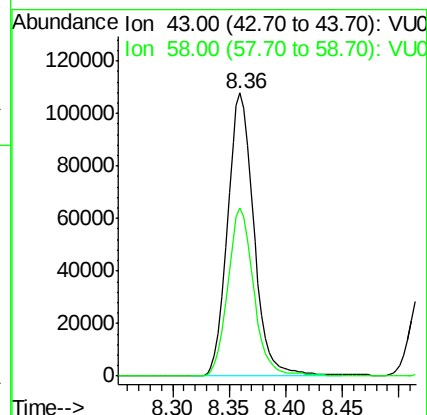
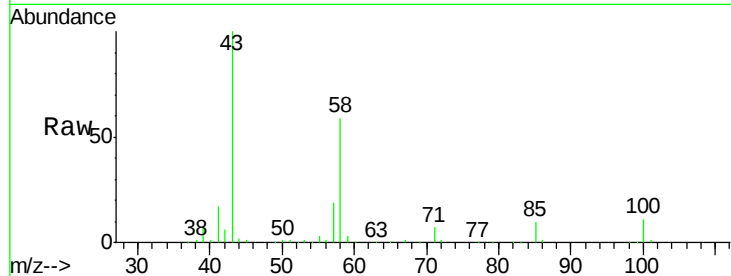




#59
 2-Hexanone
 Concen: 111.478 ug/l
 RT: 8.36 min Scan# 2235
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

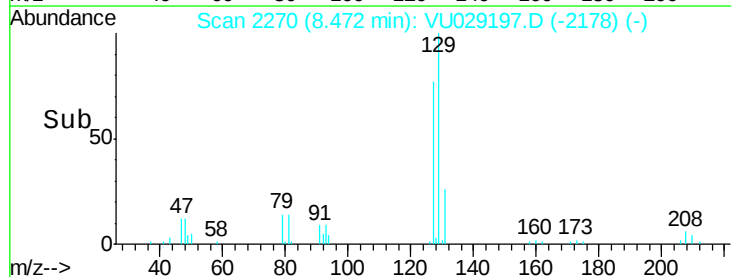
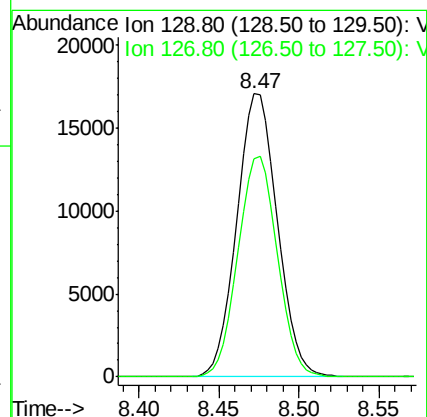
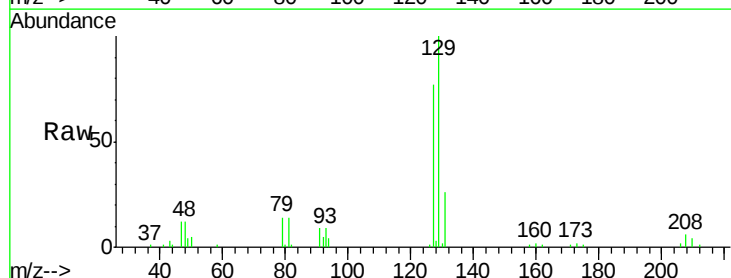
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

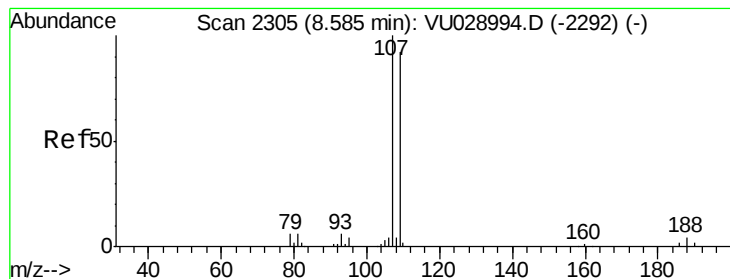
Tot Ion: 43 Resp: 175129
 Ion Ratio Lower Upper
 43 100
 58 58.3 29.8 89.4



#60
 Dibromochloromethane
 Concen: 22.416 ug/l
 RT: 8.47 min Scan# 2270
 Delta R.T. -0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion:129 Resp: 29505
 Ion Ratio Lower Upper
 129 100
 127 75.6 38.0 114.0





#61

1,2-Dibromoethane

Concen: 20.995 ug/l

RT: 8.58 min Scan# 2304

Delta R.T. -0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

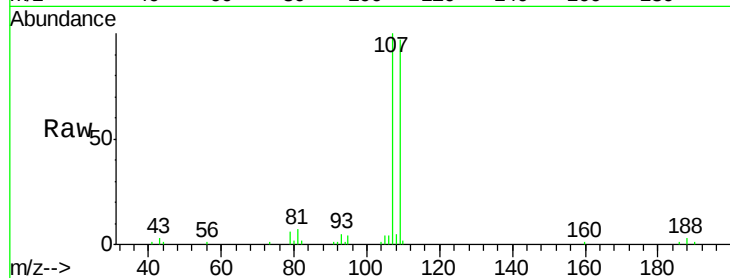
VU0116WBS01

Tot Ion:107 Resp: 30252

Ion Ratio Lower Upper

107 100

109 97.3 75.5 113.3



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.58

20000

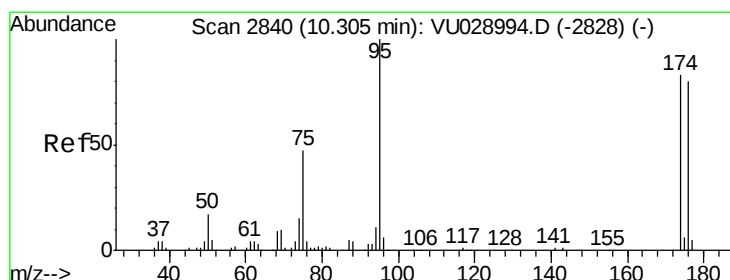
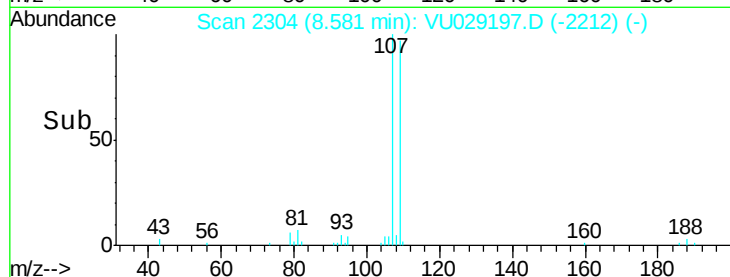
15000

10000

5000

0

Time--> 8.50 8.55 8.60 8.65



#62

4-Bromofluorobenzene

Concen: 50.304 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

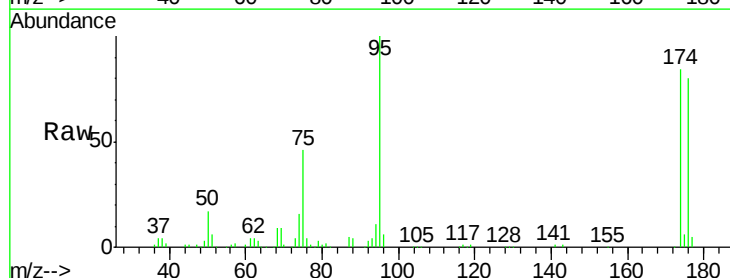
Tgt Ion: 95 Resp: 80837

Ion Ratio Lower Upper

95 100

174 83.2 0.0 170.6

176 80.7 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

10.30

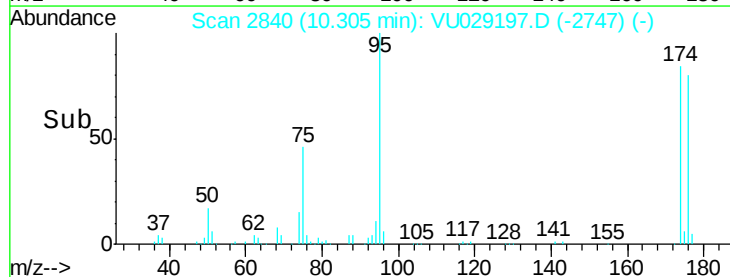
60000

40000

20000

0

Time--> 10.30 10.40

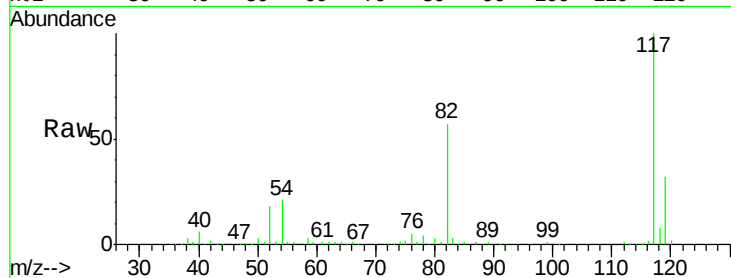




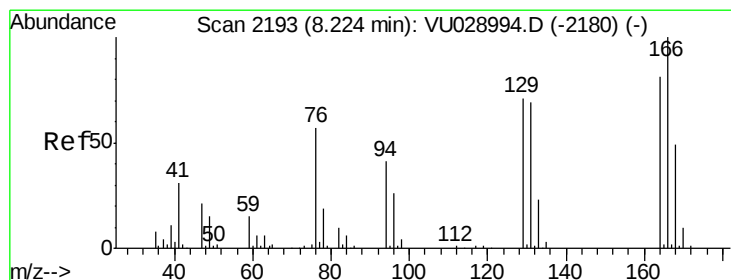
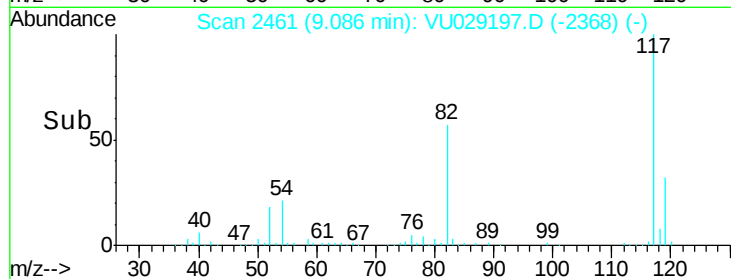
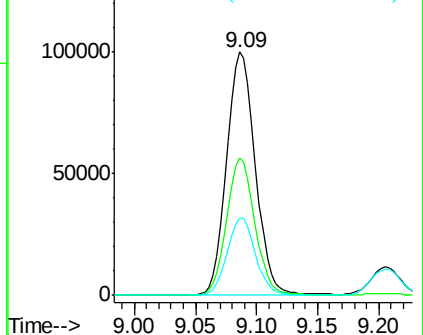
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion:117 Resp: 165021
Ion Ratio Lower Upper
117 100
82 56.7 43.9 65.9
119 31.9 26.0 39.0

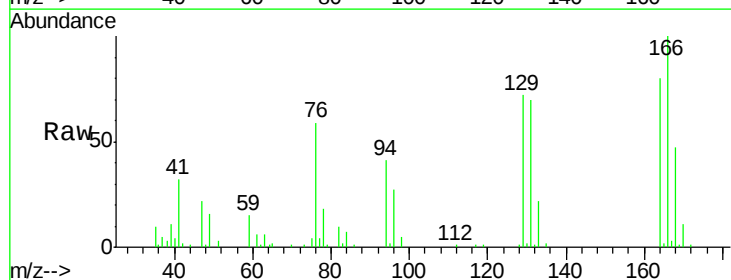


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

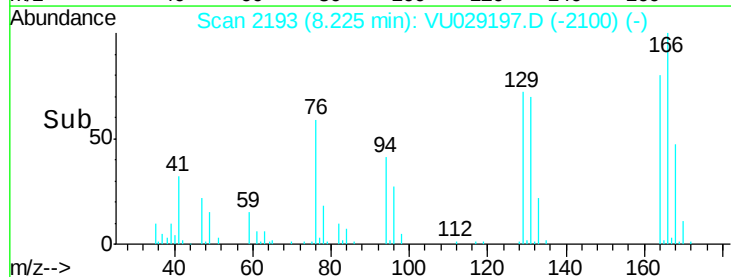
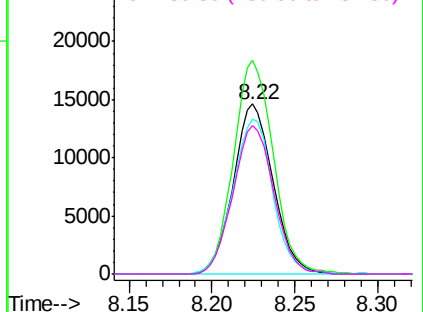


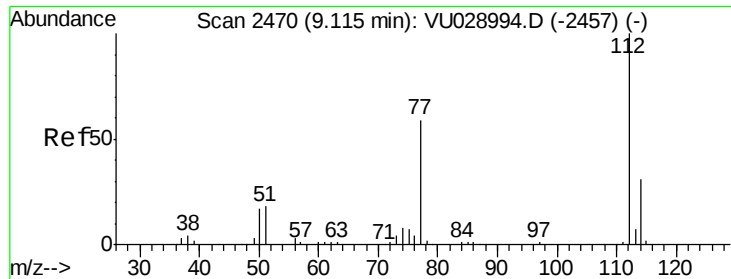
#64
Tetrachloroethene
Concen: 20.469 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion:164 Resp: 24332
Ion Ratio Lower Upper
164 100
166 125.6 99.4 149.0
129 90.8 70.5 105.7
131 87.3 69.0 103.6



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

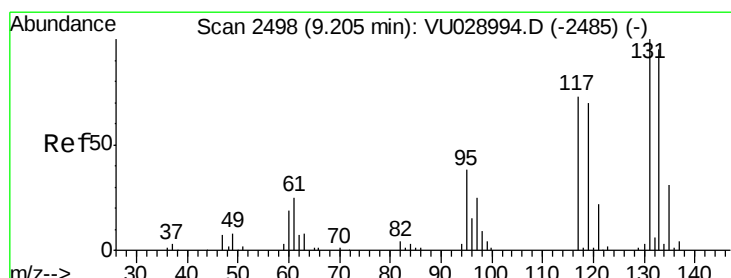
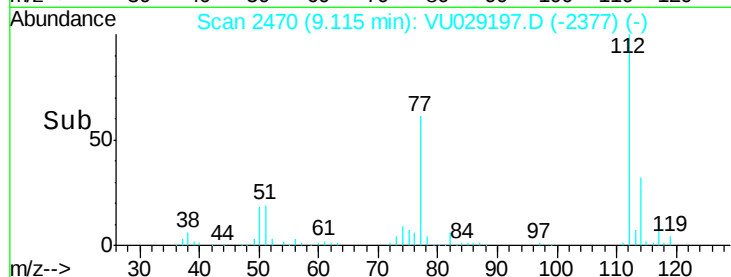
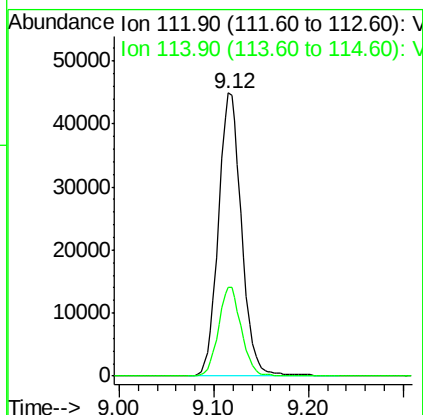
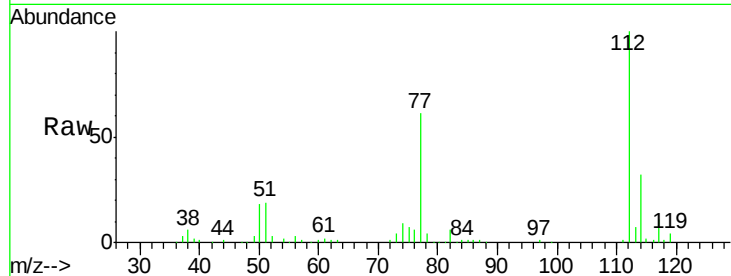




#65
Chlorobenzene
Concen: 20.628 ug/l
RT: 9.12 min Scan# 2470
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

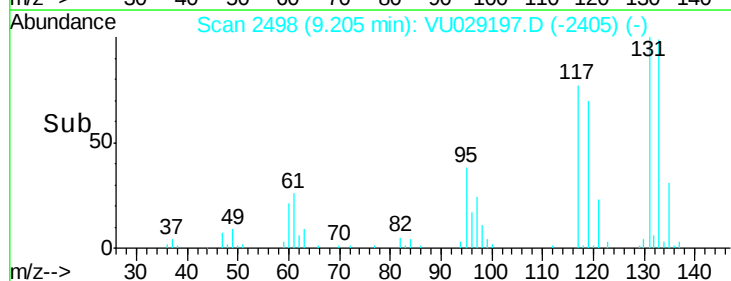
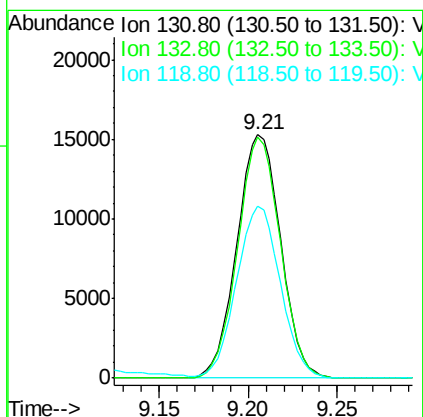
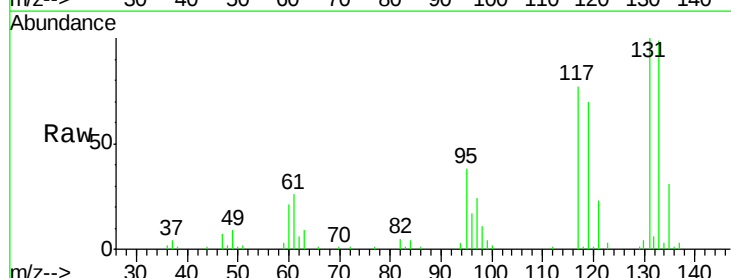
Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

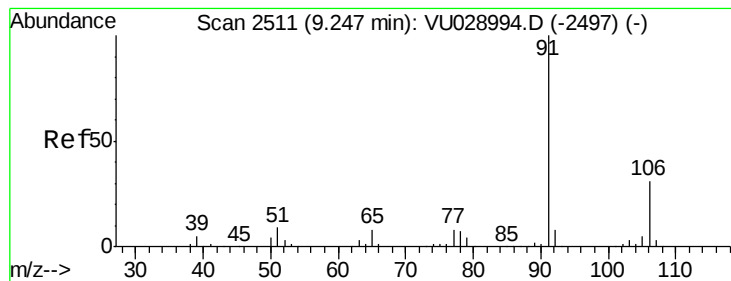
Tot Ion:112 Resp: 76303
Ion Ratio Lower Upper
112 100
114 31.6 25.0 37.6



#66
1,1,1,2-Tetrachloroethane
Concen: 21.866 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion:131 Resp: 26248
Ion Ratio Lower Upper
131 100
133 96.3 48.2 144.6
119 70.7 35.4 106.3





#67

Ethyl Benzene

Concen: 20.596 ug/l

RT: 9.25 min Scan# 2511

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

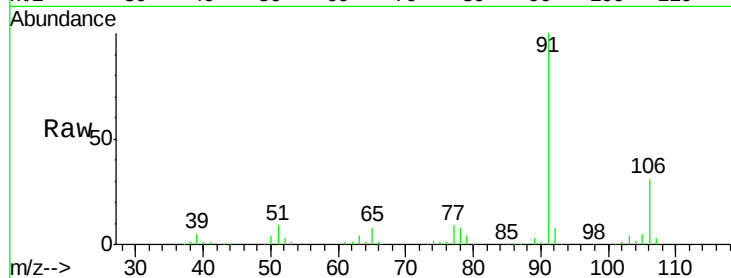
VU0116WBS01

Tot Ion: 91 Resp: 127194

Ion Ratio Lower Upper

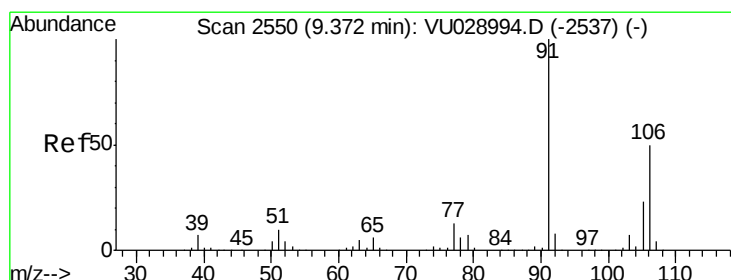
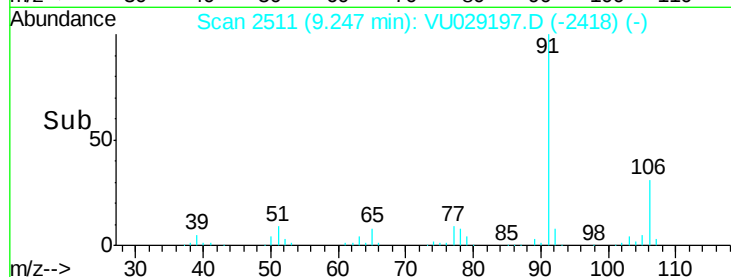
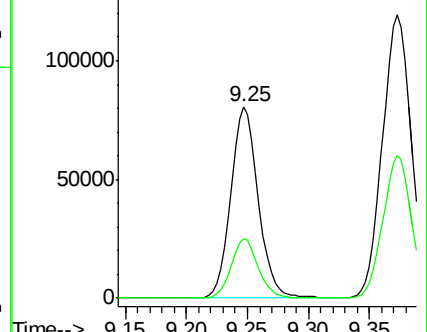
91 100

106 31.3 25.0 37.4



Abundance Ion 91.00 (90.70 to 91.70): VU028994.D (-2497) (-)

Ion 106.00 (105.70 to 106.70): VU028994.D (-2497) (-)



#68

m/p-Xylenes

Concen: 41.023 ug/l

RT: 9.37 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VU029197.D

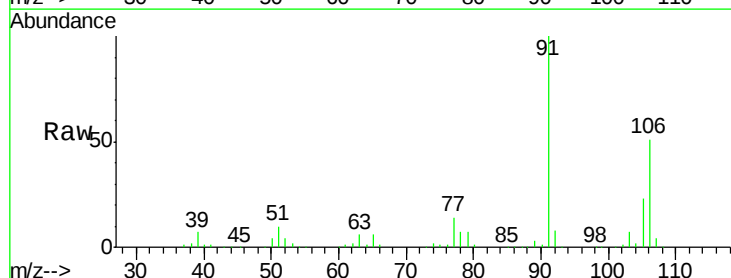
Acq: 16 Jan 2019 10:13

Tgt Ion: 106 Resp: 98436

Ion Ratio Lower Upper

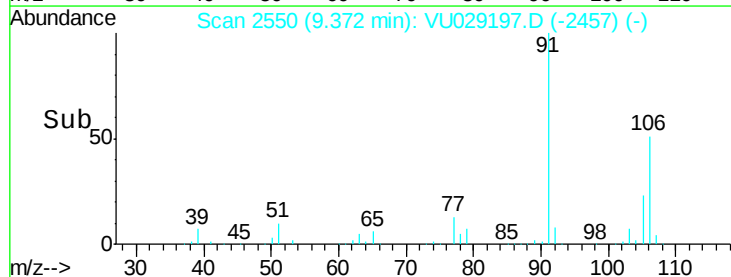
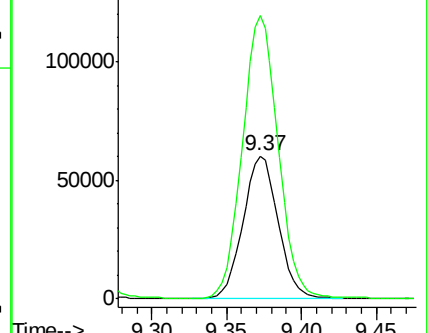
106 100

91 202.9 161.7 242.5



Abundance Ion 106.00 (105.70 to 106.70): VU028994.D (-2537) (-)

Ion 91.00 (90.70 to 91.70): VU028994.D (-2537) (-)

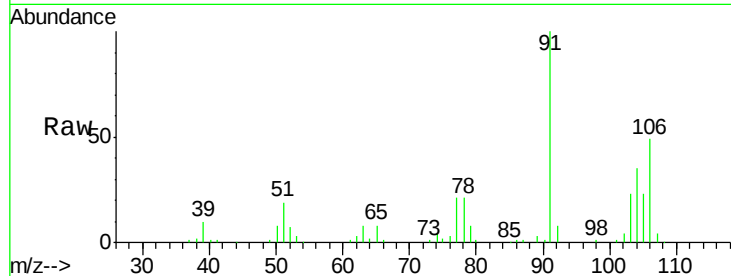




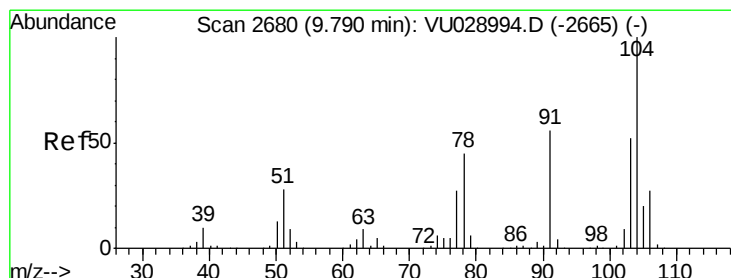
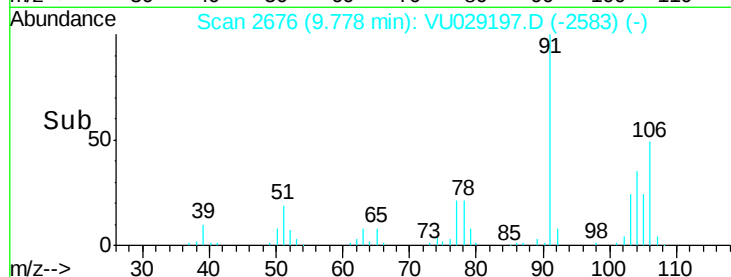
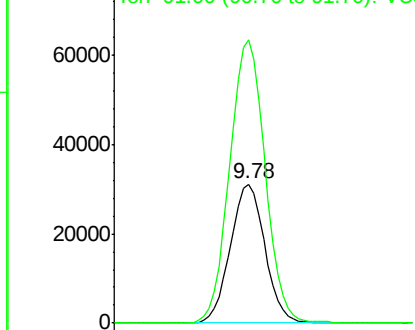
#69
o-Xylene
Concen: 20.848 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion:106 Resp: 48202
Ion Ratio Lower Upper
106 100
91 209.0 106.1 318.3

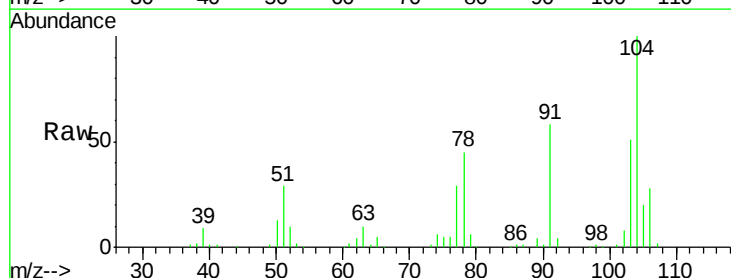


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

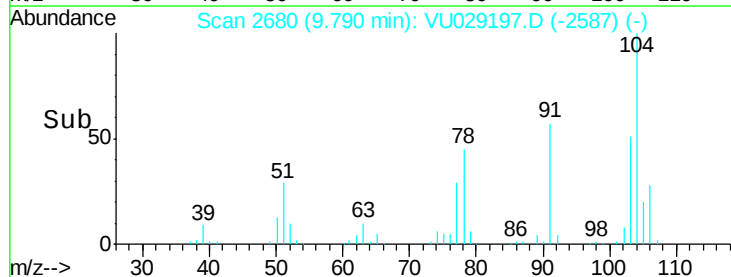
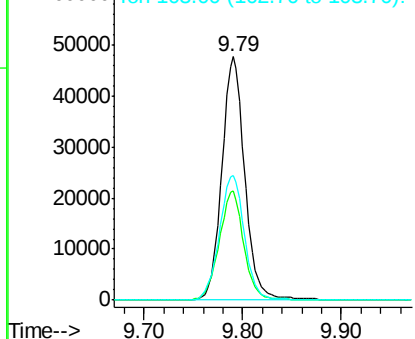


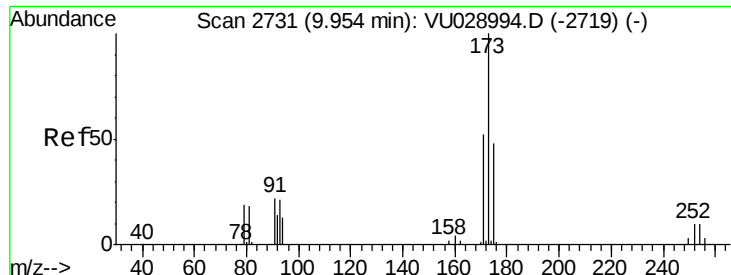
#70
Styrene
Concen: 20.565 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion:104 Resp: 77948
Ion Ratio Lower Upper
104 100
78 47.6 38.6 58.0
103 55.8 44.5 66.7



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 21.720 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

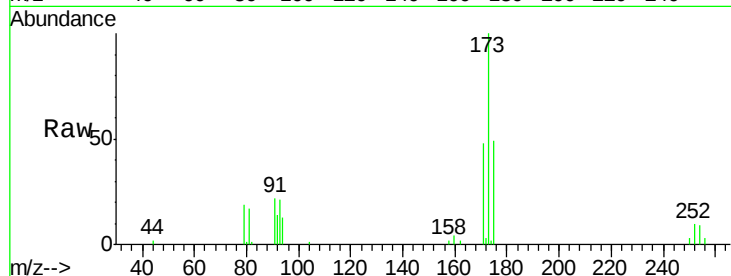
Tot Ion:173 Resp: 23216

Ion Ratio Lower Upper

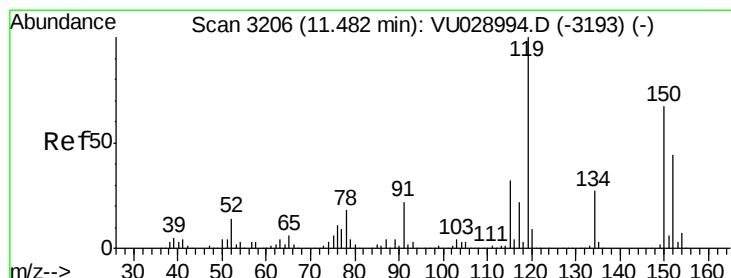
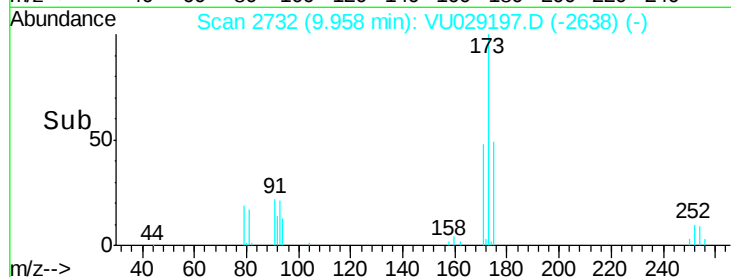
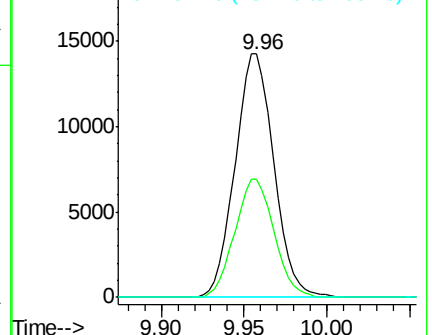
173 100

175 48.8 23.8 71.2

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

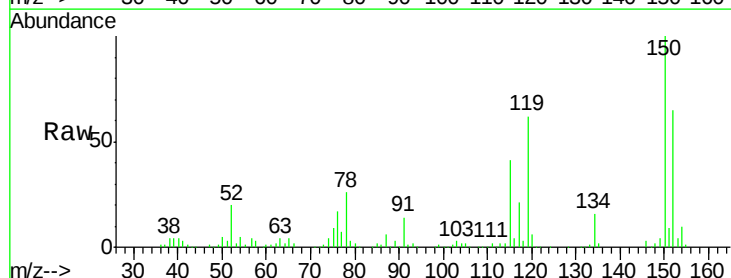
Tgt Ion:152 Resp: 82062

Ion Ratio Lower Upper

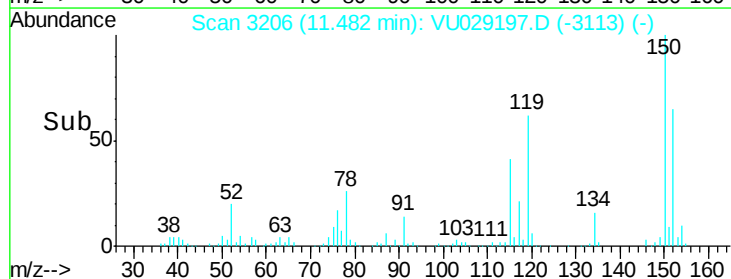
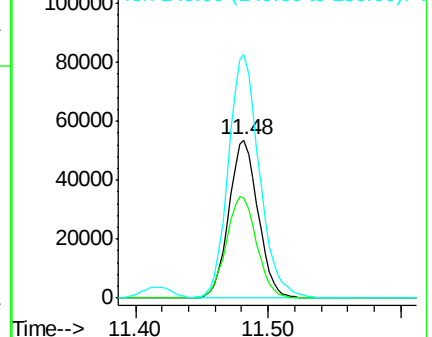
152 100

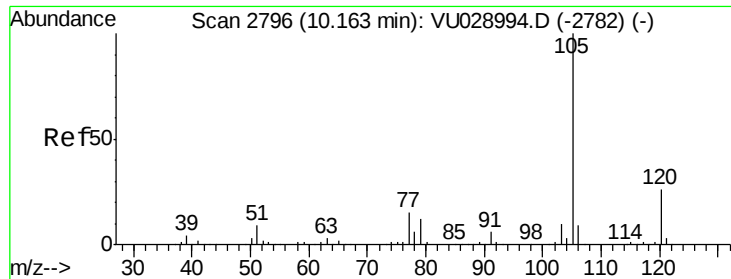
115 67.0 40.1 120.3

150 164.3 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.458 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

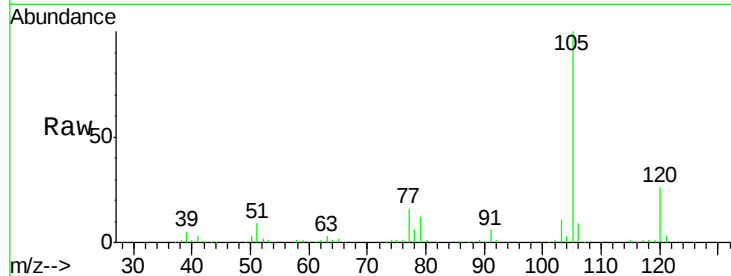
VU0116WBS01

Tot Ion:105 Resp: 124264

Ion Ratio Lower Upper

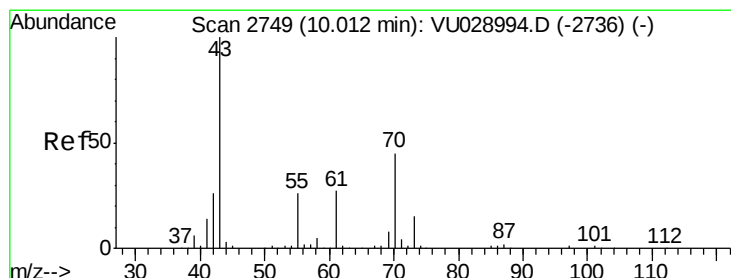
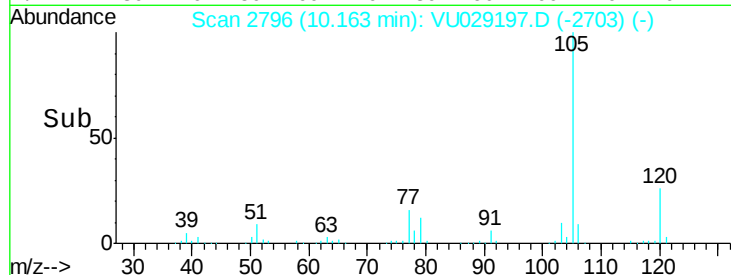
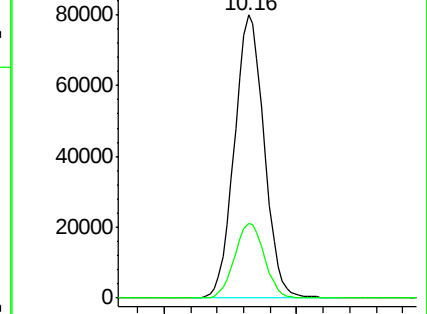
105 100

120 26.6 13.2 39.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.499 ug/l

RT: 10.01 min Scan# 2748

Delta R.T. -0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Tgt Ion: 43 Resp: 53654

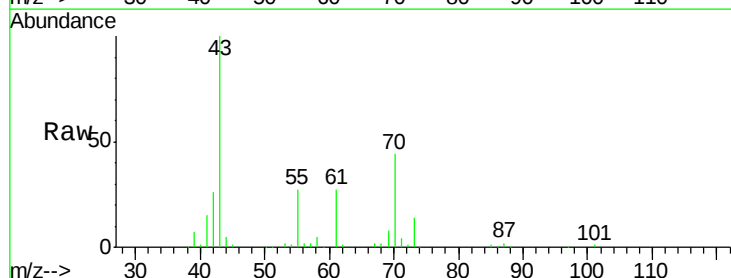
Ion Ratio Lower Upper

43 100

70 44.0 36.3 54.5

55 27.2 20.5 30.7

61 25.7 21.8 32.8

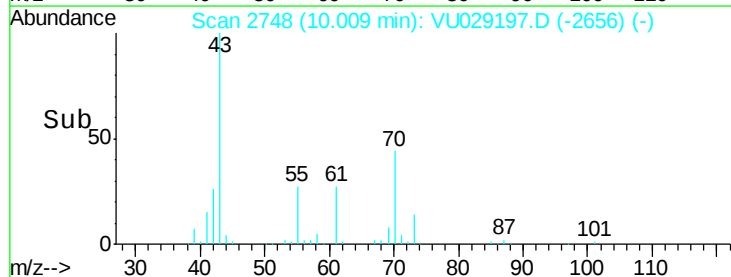
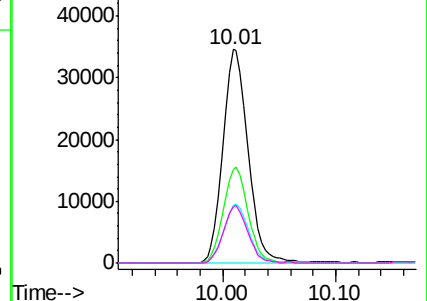


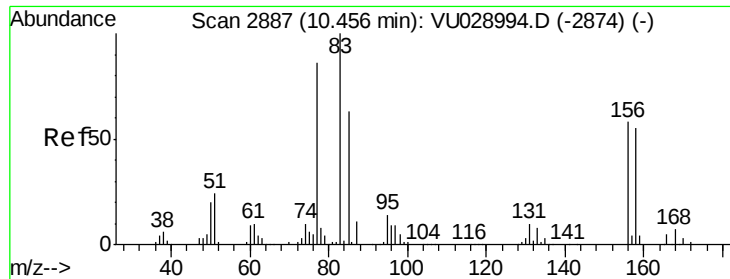
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.823 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

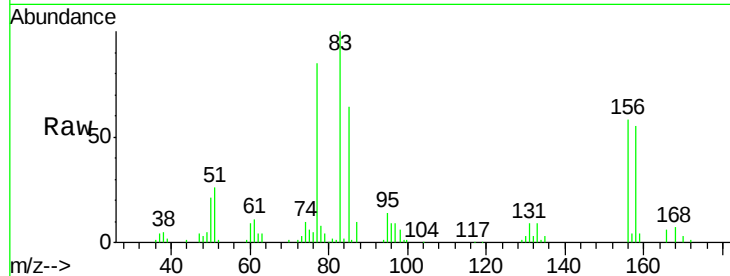
Tot Ion: 83 Resp: 50692

Ion Ratio Lower Upper

83 100

131 8.6 4.7 14.1

85 63.9 32.0 96.2

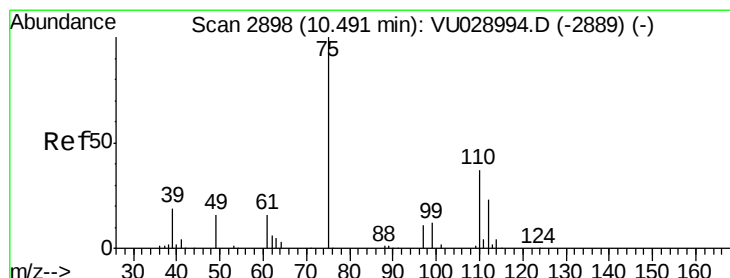
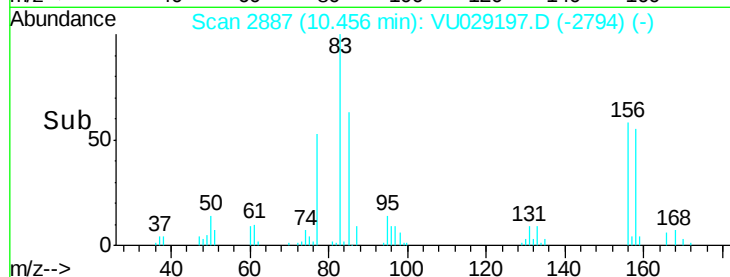


Abundance Ion 82.90 (82.60 to 83.60): VU029197.D (-2874) (-)

Ion 130.80 (130.50 to 131.50): VU029197.D (-2874) (-)

Ion 84.90 (84.60 to 85.60): VU029197.D (-2874) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 28.843 ug/l

RT: 10.49 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VU029197.D

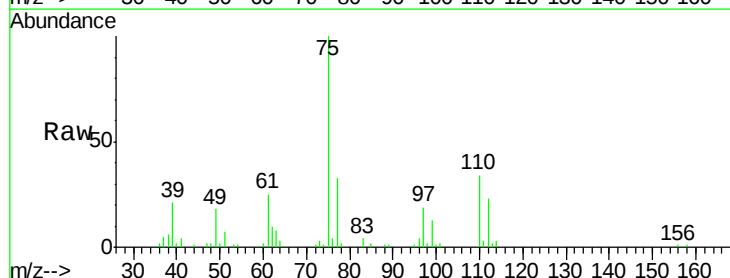
Acq: 16 Jan 2019 10:13

Tgt Ion: 75 Resp: 57993

Ion Ratio Lower Upper

75 100

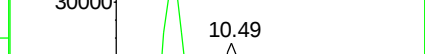
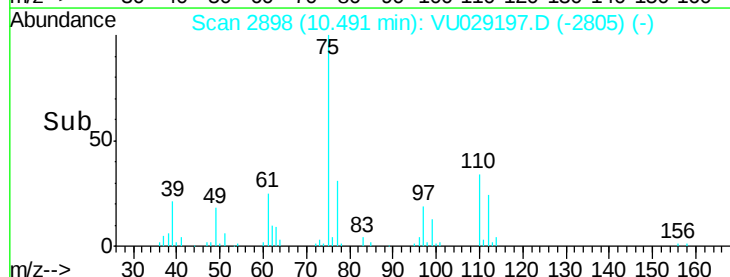
77 30.7 20.9 62.8

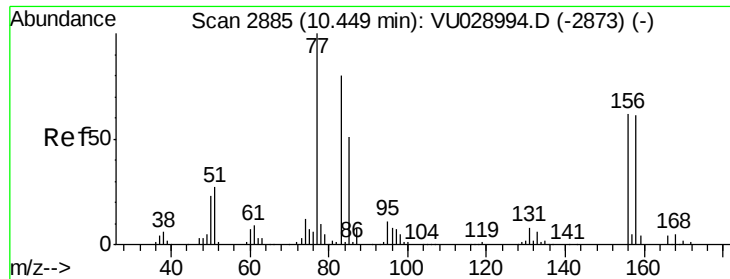


Abundance Ion 74.90 (74.60 to 75.60): VU029197.D (-2889) (-)

Ion 77.00 (76.70 to 77.70): VU029197.D (-2889) (-)

Time-->

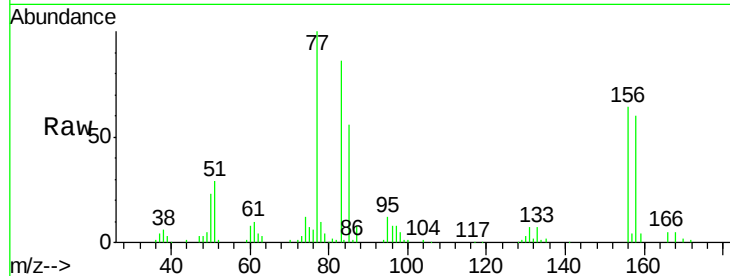




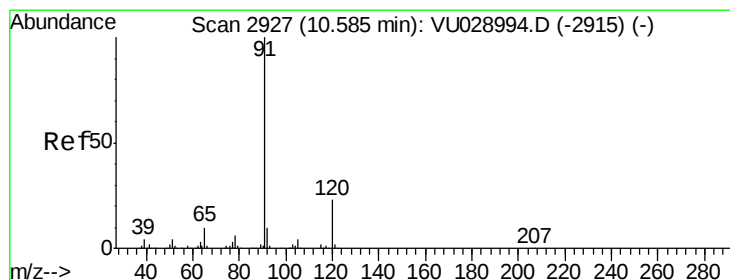
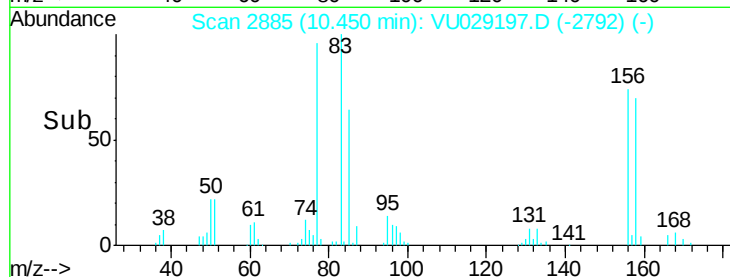
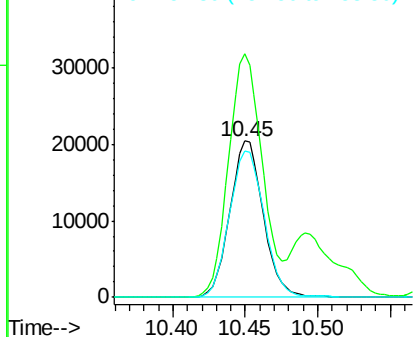
#77
Bromobenzene
Concen: 20.596 ug/l
RT: 10.45 min Scan# 2885
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion:156 Resp: 32601
Ion Ratio Lower Upper
156 100
77 157.9 79.0 237.2
158 97.9 48.9 146.6

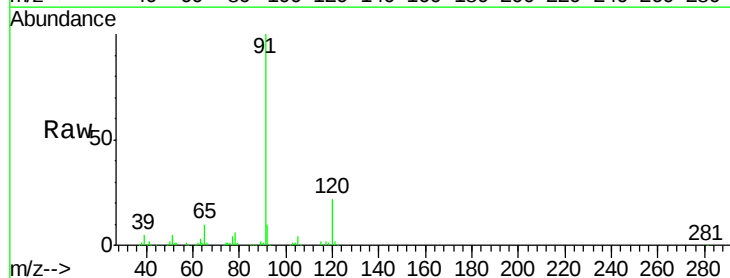


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VU0
Ion 157.80 (157.50 to 158.50): V

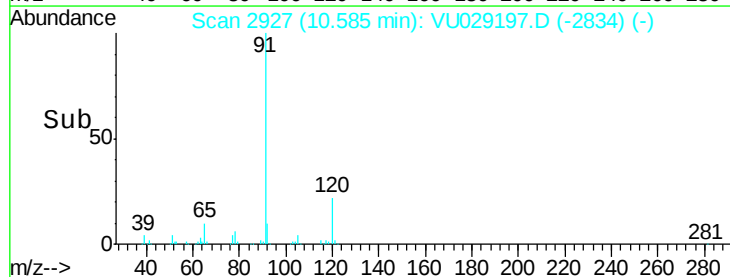
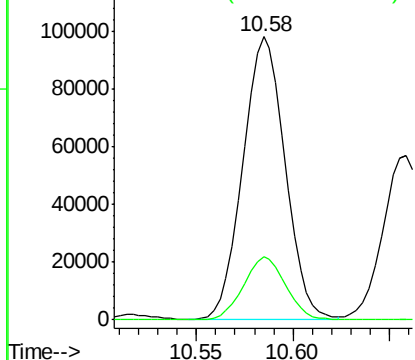


#78
n-propylbenzene
Concen: 20.927 ug/l
RT: 10.58 min Scan# 2927
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion: 91 Resp: 149797
Ion Ratio Lower Upper
91 100
120 22.2 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 120.00 (119.70 to 120.70): V

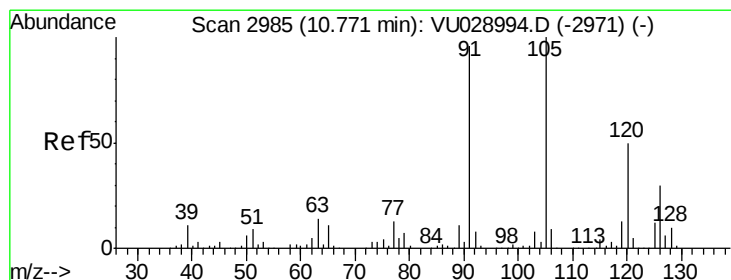
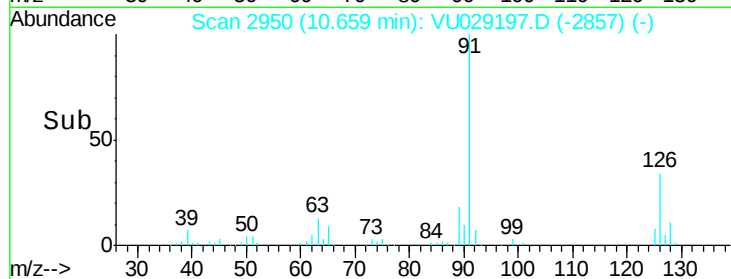
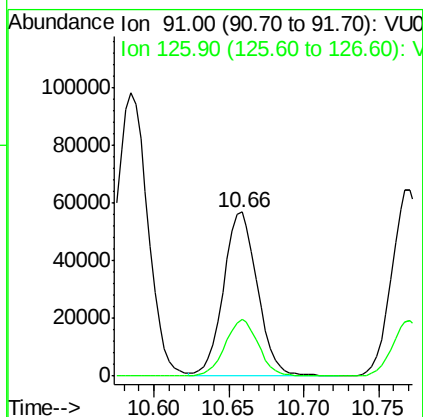
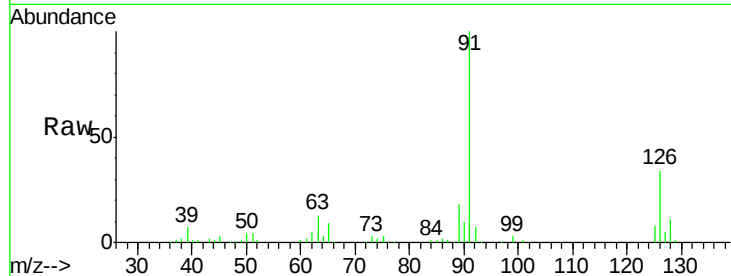




#79
 2-Chlorotoluene
 Concen: 20.806 ug/l
 RT: 10.66 min Scan# 2950
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

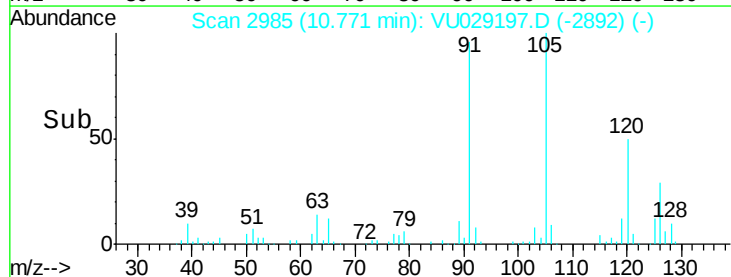
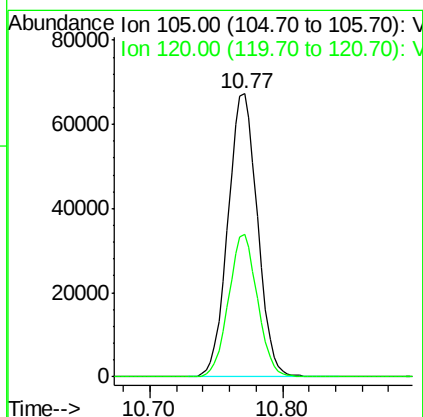
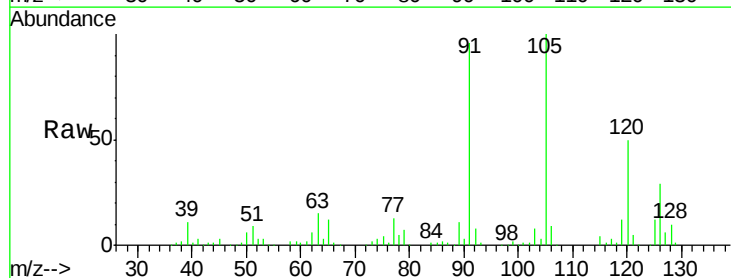
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

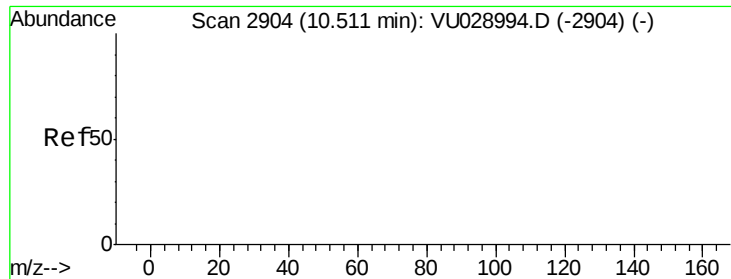
Tot Ion: 91 Resp: 90343
 Ion Ratio Lower Upper
 91 100
 126 33.9 16.8 50.4



#80
 1,3,5-Trimethylbenzene
 Concen: 20.527 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion: 105 Resp: 104117
 Ion Ratio Lower Upper
 105 100
 120 49.1 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 74.387 ug/l

RT: 10.49 min Scan# 2898

Delta R.T. -0.02 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

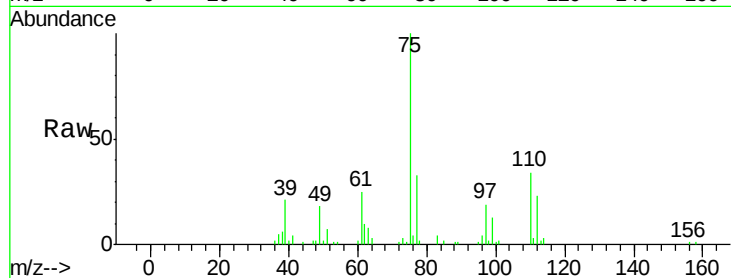
Tot Ion: 75 Resp: 57993

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

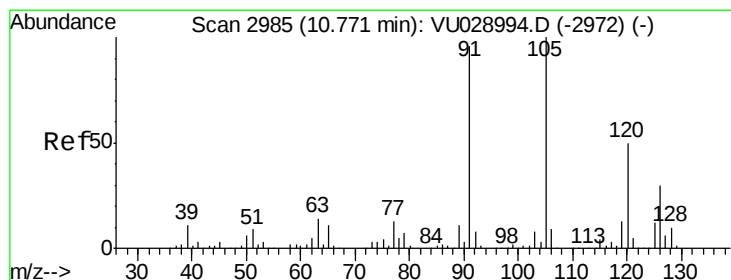
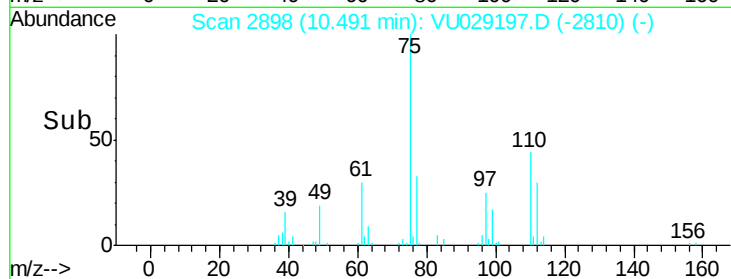
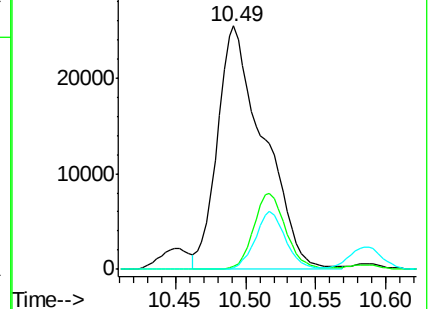
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0



#82

4-Chlorotoluene

Concen: 20.512 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU029197.D

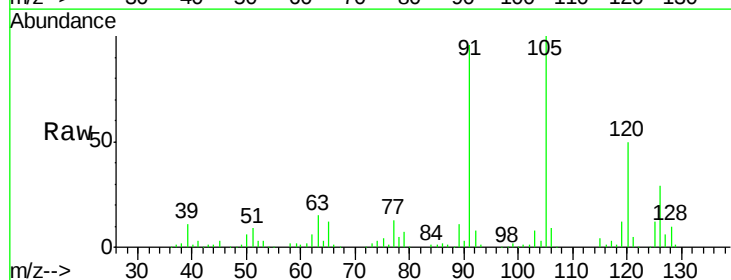
Acq: 16 Jan 2019 10:13

Tgt Ion: 91 Resp: 102129

Ion Ratio Lower Upper

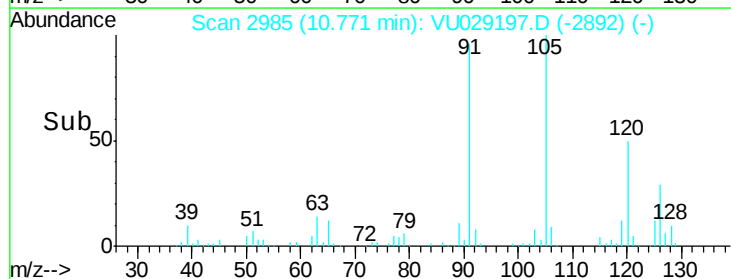
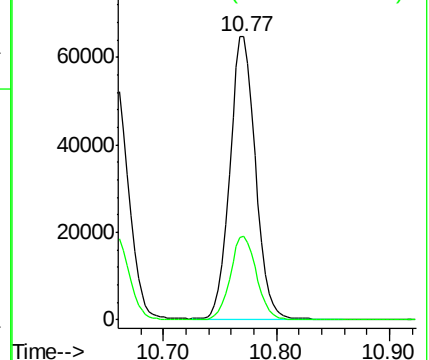
91 100

126 30.2 15.5 46.5



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

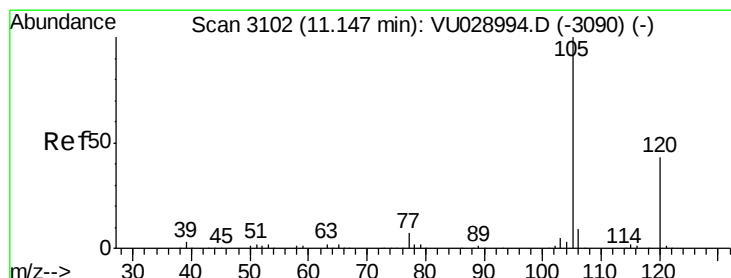
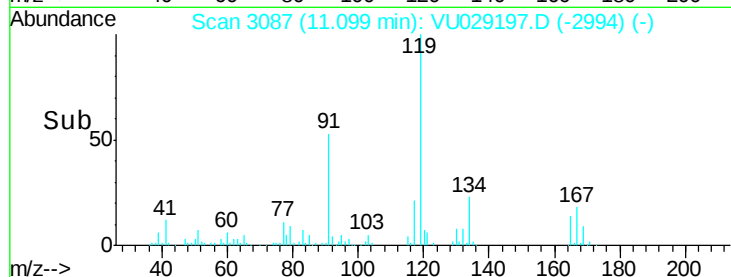
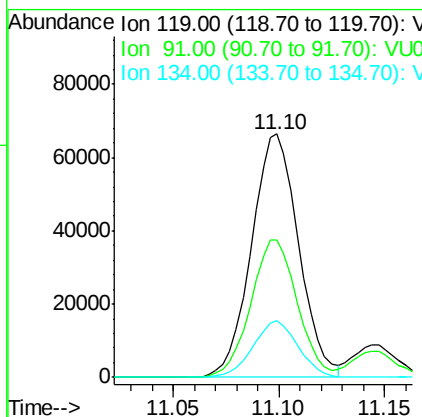
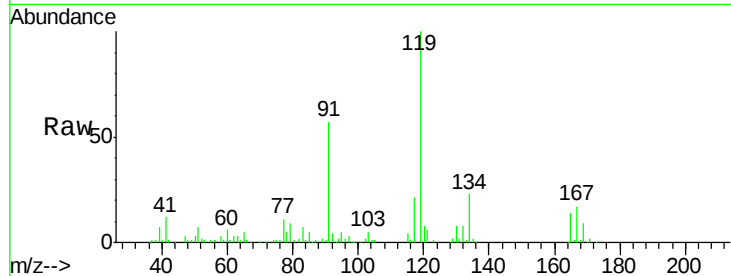




#83
 tert-Butylbenzene
 Concen: 20.669 ug/l
 RT: 11.10 min Scan# 3087
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

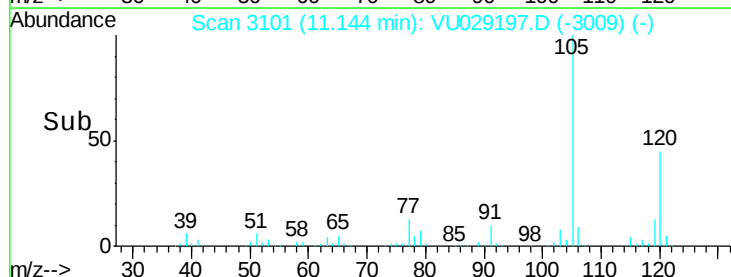
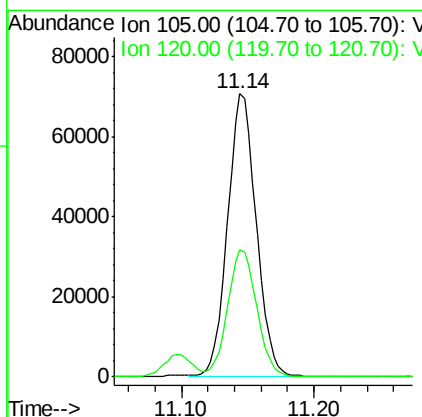
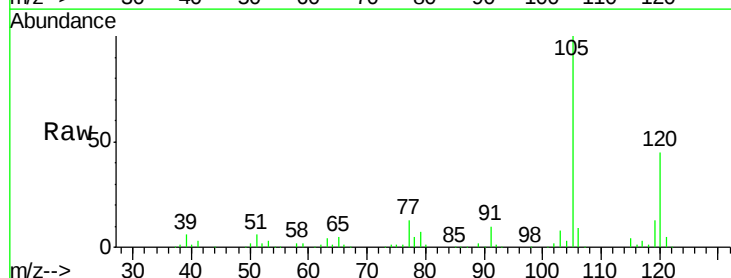
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

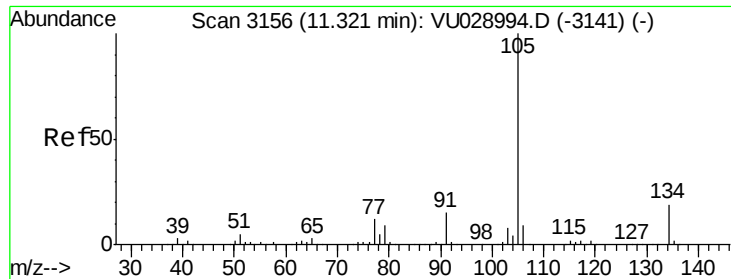
Tot Ion:119 Resp: 103330
 Ion Ratio Lower Upper
 119 100
 91 55.6 28.2 84.6
 134 22.2 11.3 33.8



#84
 1,2,4-Trimethylbenzene
 Concen: 20.900 ug/l
 RT: 11.14 min Scan# 3101
 Delta R.T. -0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion:105 Resp: 105839
 Ion Ratio Lower Upper
 105 100
 120 45.8 23.1 69.3





#85

sec-Butylbenzene

Concen: 21.116 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

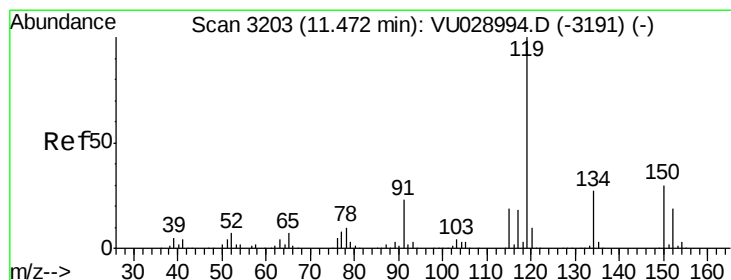
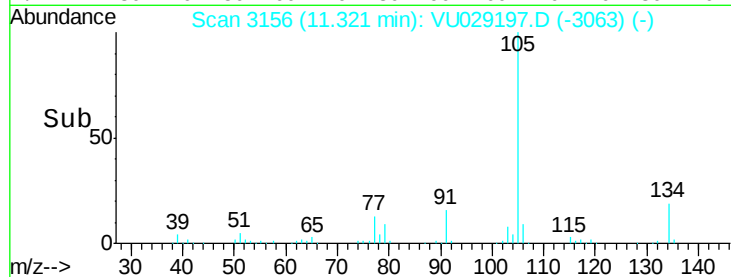
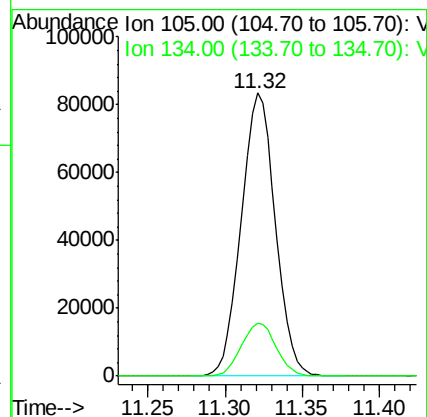
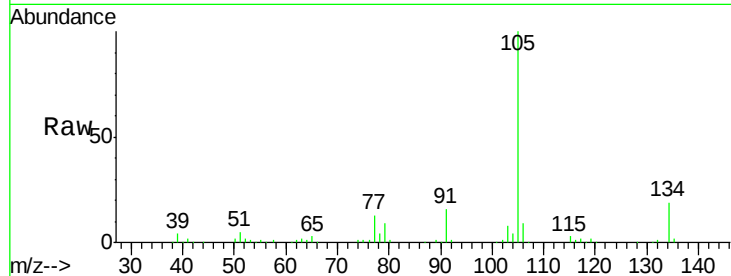
VU0116WBS01

Tot Ion:105 Resp: 127670

Ion Ratio Lower Upper

105 100

134 19.2 9.7 29.1



#86

p-Isopropyltoluene

Concen: 21.051 ug/l

RT: 11.47 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

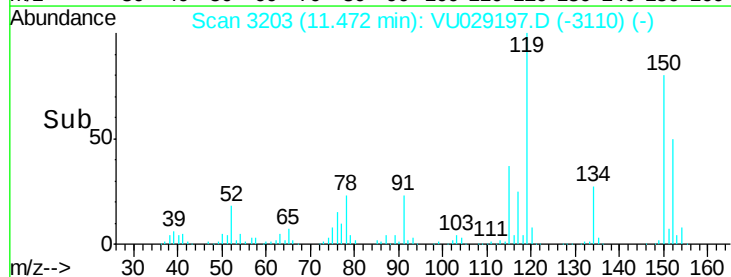
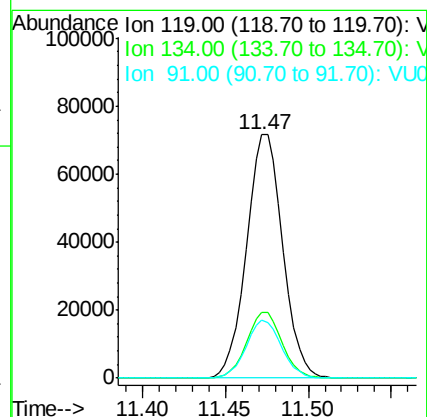
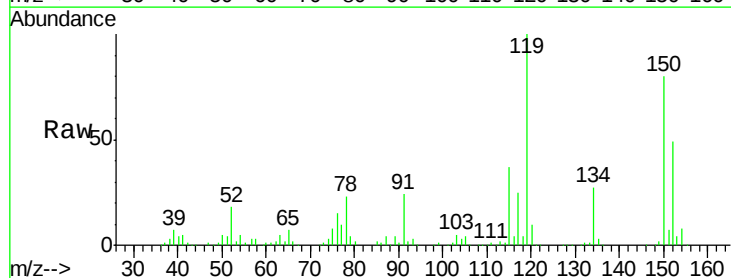
Tgt Ion:119 Resp: 108456

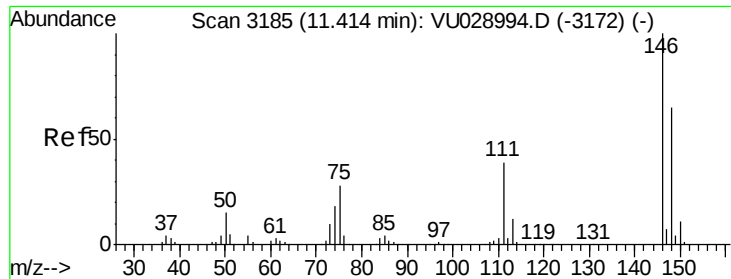
Ion Ratio Lower Upper

119 100

134 26.5 13.5 40.4

91 23.2 11.3 33.8

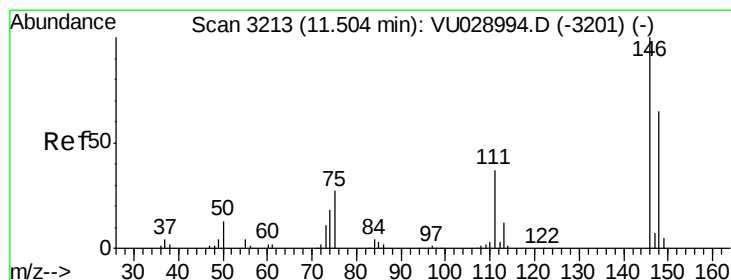
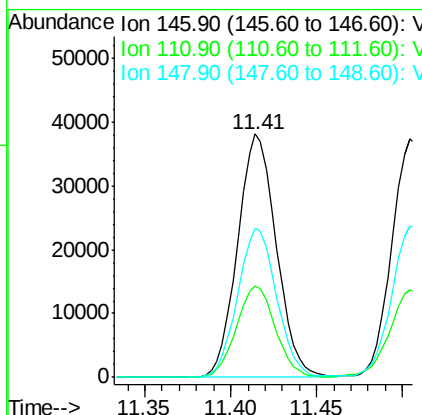
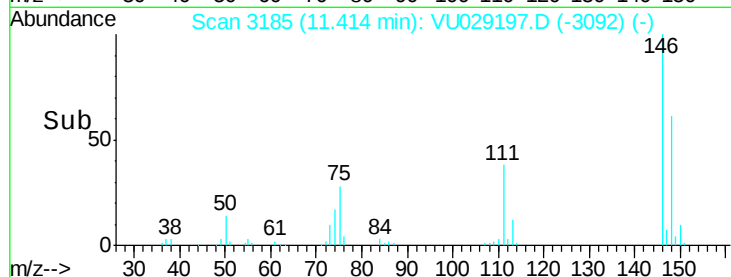
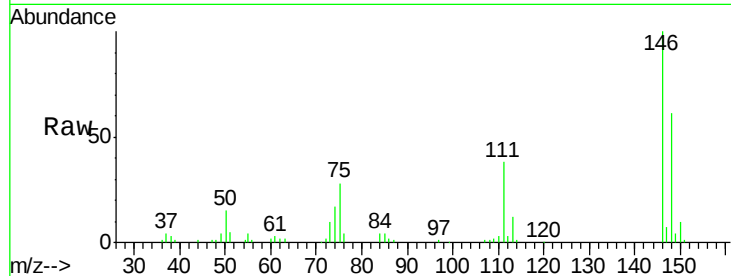




#87
 1,3-Dichlorobenzene
 Concen: 20.498 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

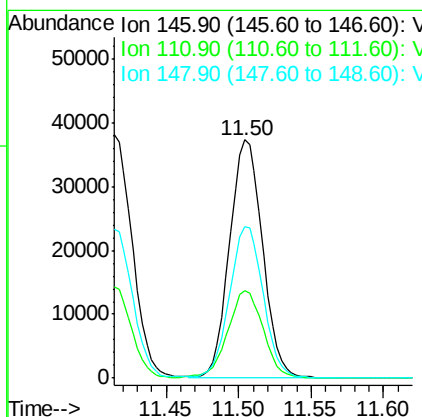
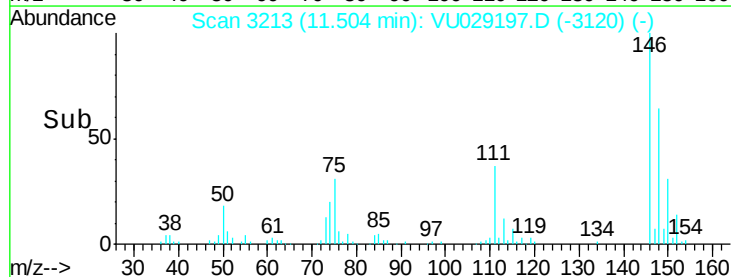
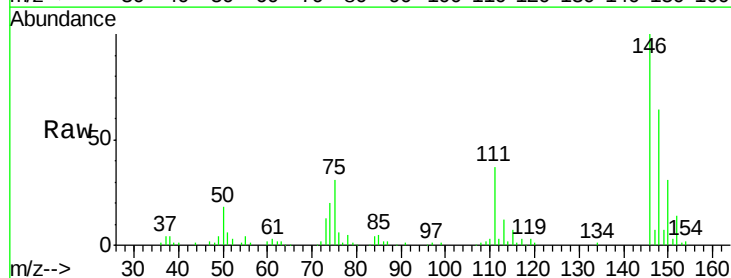
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

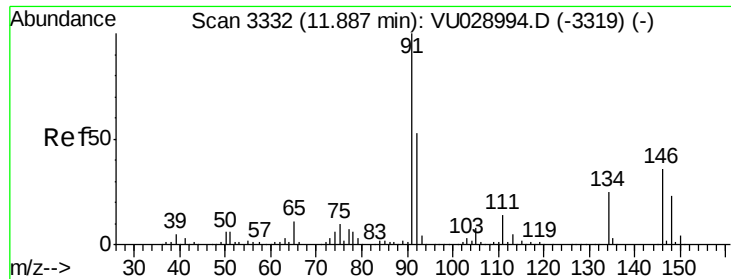
Tot Ion:146 Resp: 59514
 Ion Ratio Lower Upper
 146 100
 111 37.7 19.3 57.8
 148 61.9 32.5 97.5



#88
 1,4-Dichlorobenzene
 Concen: 19.755 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion:146 Resp: 59206
 Ion Ratio Lower Upper
 146 100
 111 39.5 19.1 57.3
 148 64.9 32.6 98.0





#89

n-Butylbenzene

Concen: 21.958 ug/l

RT: 11.89 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

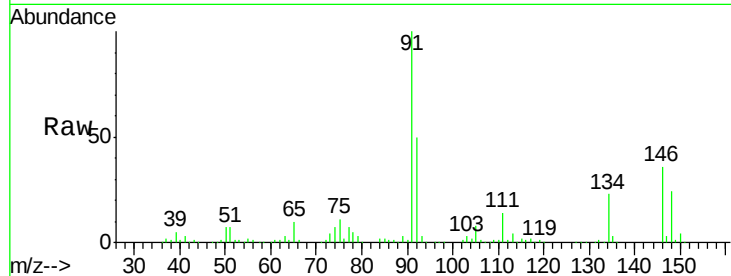
Tot Ion: 91 Resp: 100974

Ion Ratio Lower Upper

91 100

92 50.1 26.2 78.5

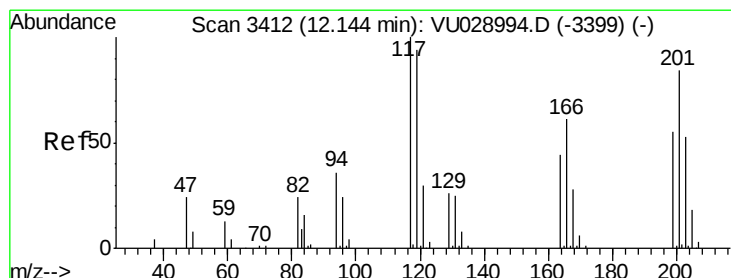
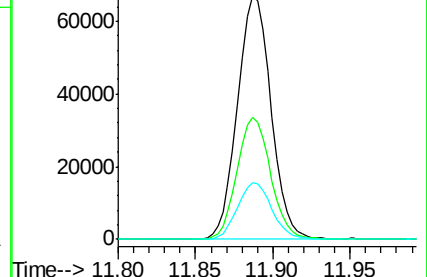
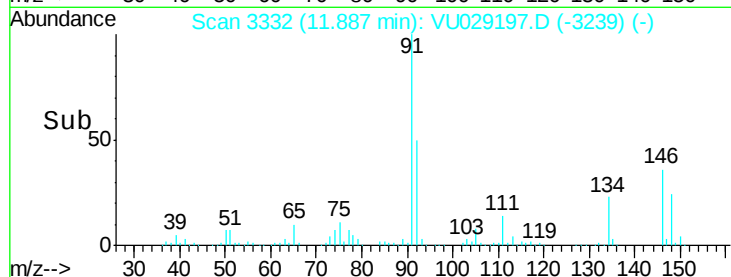
134 23.7 12.6 37.6



Abundance Ion 91.00 (90.70 to 91.70): VU028994.D (-3319) (-)

Ion 92.00 (91.70 to 92.70): VU028994.D (-3319) (-)

Ion 134.00 (133.70 to 134.70): VU028994.D (-3319) (-)



#90

Hexachloroethane

Concen: 21.431 ug/l

RT: 12.14 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VU029197.D

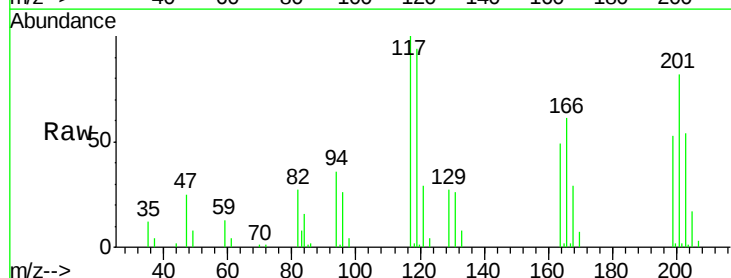
Acq: 16 Jan 2019 10:13

Tgt Ion: 117 Resp: 18575

Ion Ratio Lower Upper

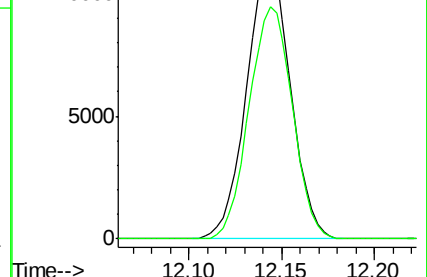
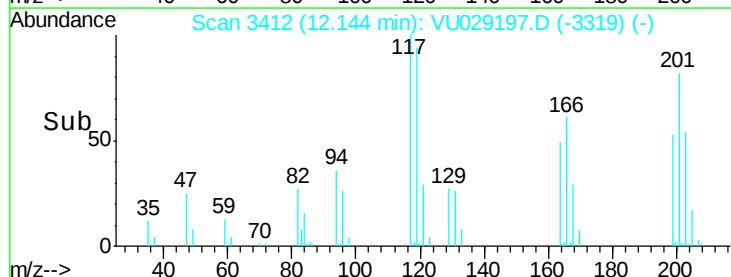
117 100

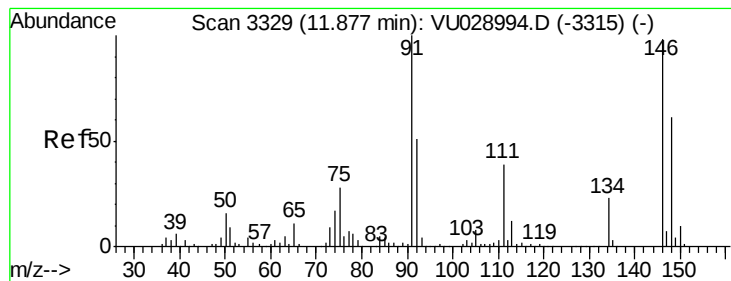
201 82.6 42.4 127.3



Abundance Ion 116.80 (116.50 to 117.50): VU028994.D (-3399) (-)

Ion 200.70 (200.40 to 201.40): VU028994.D (-3399) (-)





#91

1,2-Dichlorobenzene

Concen: 19.704 ug/l

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

Instrument :

MSVOA_U

ClientSampleId :

VU0116WBS01

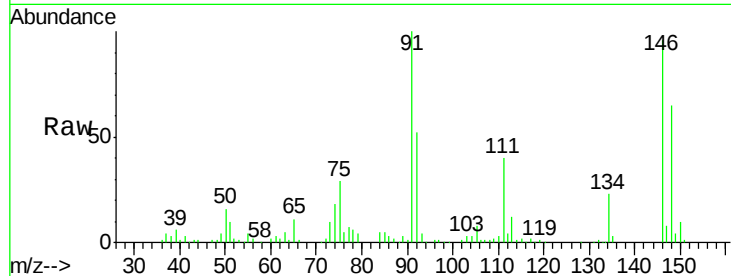
Tot Ion:146 Resp: 57621

Ion Ratio Lower Upper

146 100

111 40.5 20.0 59.9

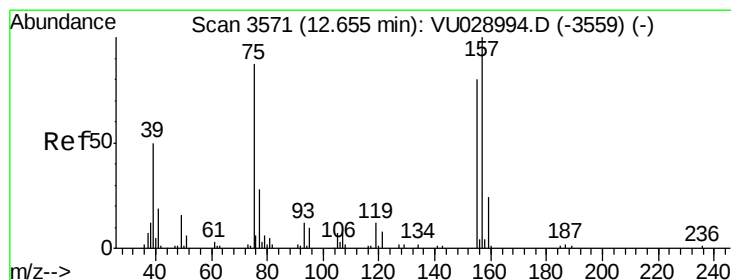
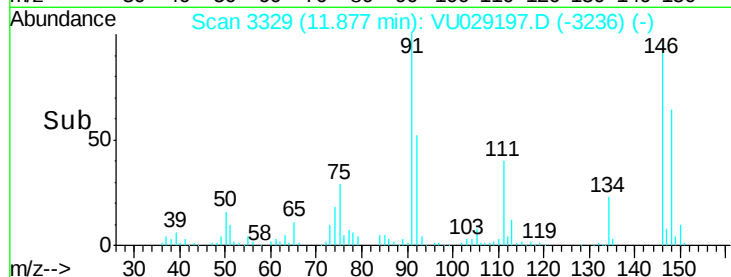
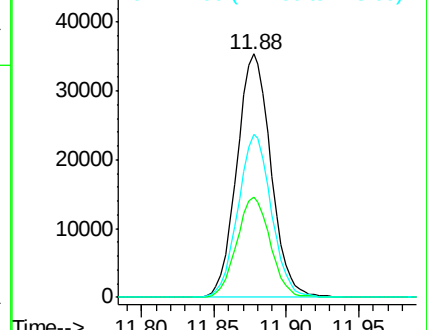
148 65.4 31.6 94.8



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.200 ug/l

RT: 12.66 min Scan# 3571

Delta R.T. 0.00 min

Lab File: VU029197.D

Acq: 16 Jan 2019 10:13

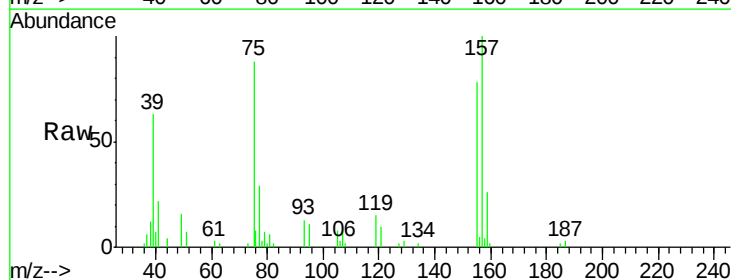
Tgt Ion: 75 Resp: 9926

Ion Ratio Lower Upper

75 100

155 86.3 46.3 138.8

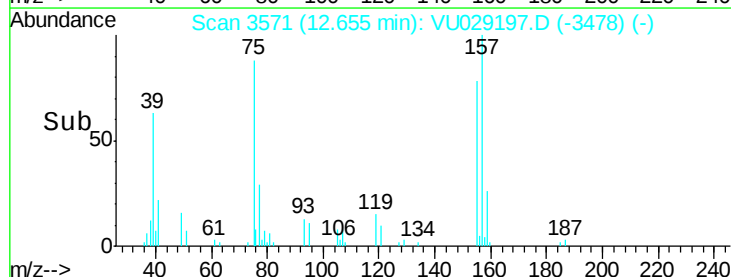
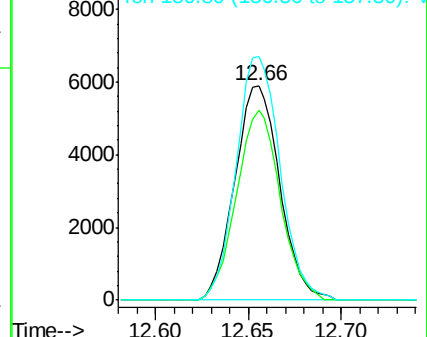
157 111.3 57.4 172.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

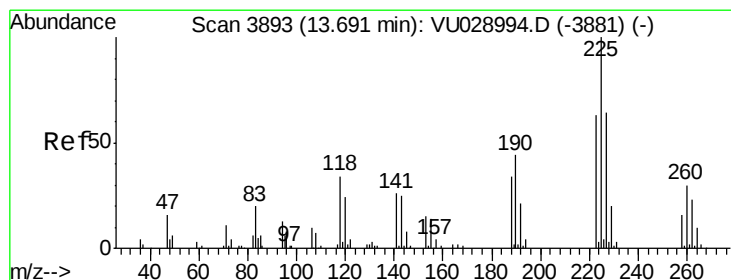
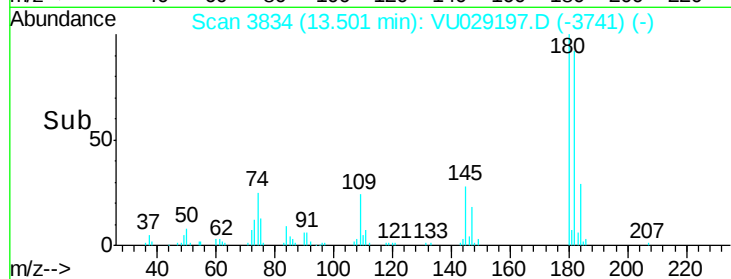
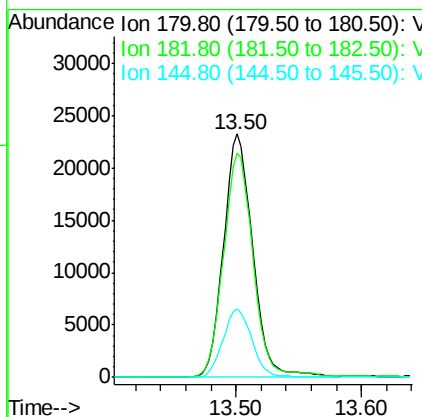
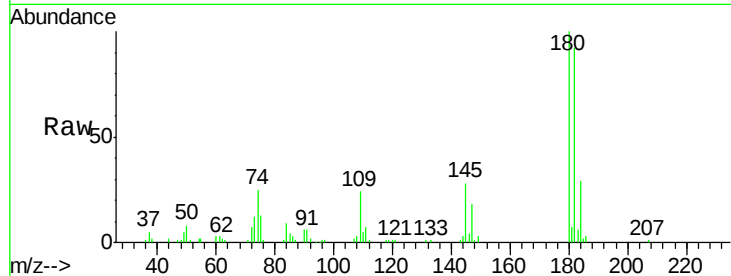




#93
 1,2,4-Trichlorobenzene
 Concen: 20.094 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

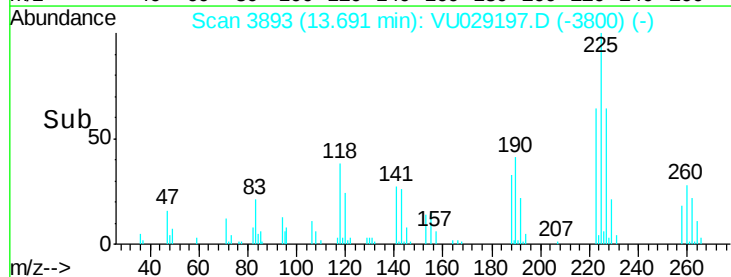
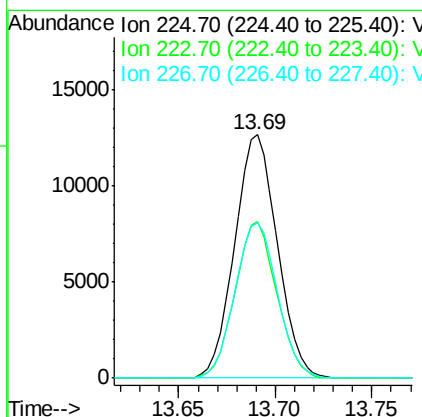
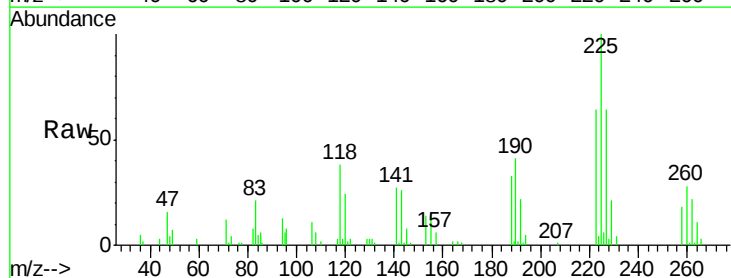
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0116WBS01

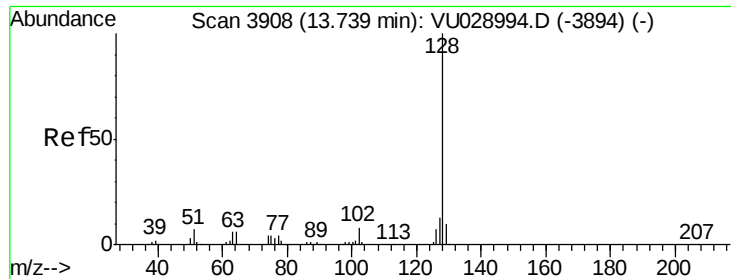
Tot Ion:180 Resp: 37511
 Ion Ratio Lower Upper
 180 100
 182 93.5 47.5 142.6
 145 27.7 14.0 42.0



#94
 Hexachlorobutadiene
 Concen: 22.716 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU029197.D
 Acq: 16 Jan 2019 10:13

Tgt Ion:225 Resp: 19396
 Ion Ratio Lower Upper
 225 100
 223 62.3 31.4 94.0
 227 63.4 31.9 95.5

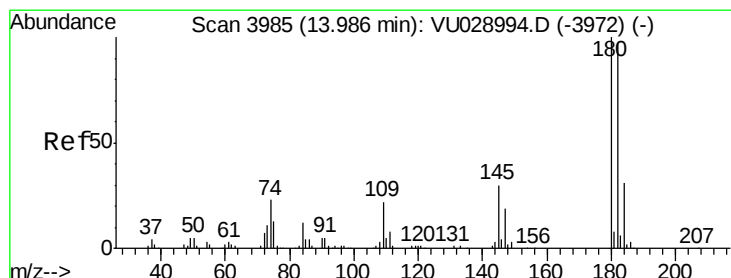
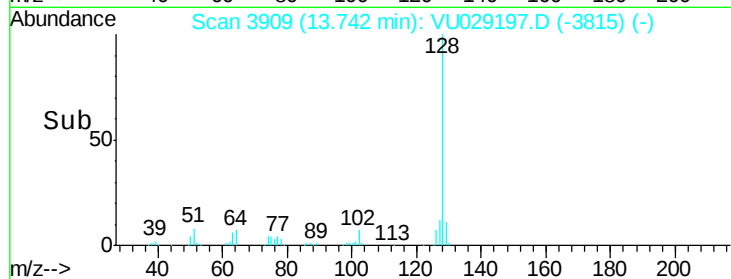
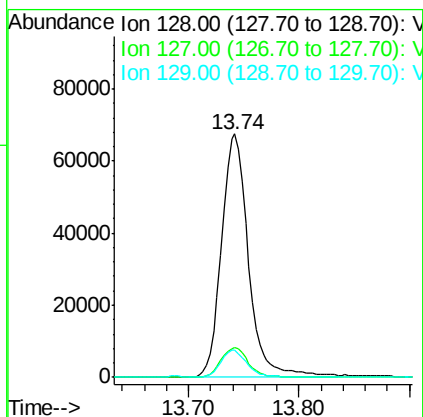
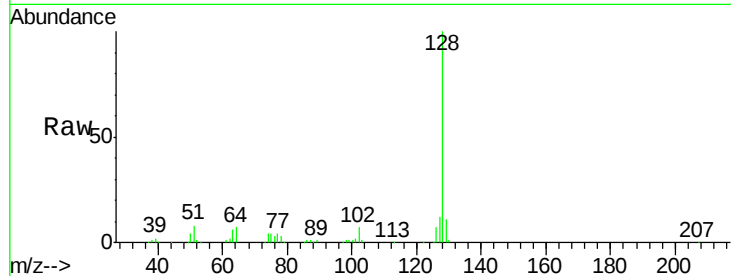




#95
Naphthalene
Concen: 18.103 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Instrument :
MSVOA_U
ClientSampleId :
VU0116WBS01

Tot Ion:128 Resp: 114959
Ion Ratio Lower Upper
128 100
127 12.4 10.1 15.1
129 10.8 8.5 12.7



#96
1,2,3-Trichlorobenzene
Concen: 20.522 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU029197.D
Acq: 16 Jan 2019 10:13

Tgt Ion:180 Resp: 38546
Ion Ratio Lower Upper
180 100
182 96.2 48.1 144.3
145 30.1 14.8 44.4

