

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011419\
 Data File : VU029154.D
 Acq On : 14 Jan 2019 10:34
 Operator : JC/SP
 Sample : VU0114WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 14 22:44:28 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	122673	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	194683	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	181367	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	89646	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	76050	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
35) Dibromofluoromethane	4.88	113	64157	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
50) Toluene-d8	7.56	98	251998	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
62) 4-Bromofluorobenzene	10.30	95	88241	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	22657	18.624	ug/l	97
3) Chloromethane	1.33	50	33014	16.535	ug/l	98
4) Vinyl Chloride	1.40	62	33128	18.478	ug/l	96
5) Bromomethane	1.62	94	20027	19.899	ug/l	96
6) Chloroethane	1.69	64	20344	19.051	ug/l	99
7) Trichlorofluoromethane	1.88	101	37523	19.208	ug/l	97
8) Diethyl Ether	2.10	74	17549	18.698	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	2.29	101	25752	19.701	ug/l	99
10) Methyl Iodide	2.41	142	22710	18.478	ug/l	99
11) Tert butyl alcohol	2.82	59	37578	97.487	ug/l	99
12) 1,1-Dichloroethene	2.28	96	24306	19.104	ug/l	98
13) Acrolein	2.19	56	26009	89.858	ug/l	99
14) Allyl chloride	2.59	41	42064	18.019	ug/l	92
15) Acrylonitrile	2.93	53	91930	97.210	ug/l	98
16) Acetone	2.32	43	97330	101.882	ug/l	100
17) Carbon Disulfide	2.48	76	76581	17.818	ug/l	99
18) Methyl Acetate	2.61	43	45822	20.629	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	86314	19.296	ug/l	99
20) Methylene Chloride	2.70	84	30876	19.036	ug/l	99
21) trans-1,2-Dichloroethene	2.98	96	27336	18.493	ug/l	94
22) Diisopropyl ether	3.57	45	92223	19.989	ug/l	96
23) Vinyl Acetate	3.52	43	372534	98.769	ug/l	99
24) 1,1-Dichloroethane	3.44	63	53242	19.990	ug/l	99
25) 2-Butanone	4.26	43	131359	101.805	ug/l	99
26) 2,2-Dichloropropane	4.22	77	43945	20.420	ug/l	100
27) cis-1,2-Dichloroethene	4.22	96	31958	19.767	ug/l	99
28) Bromochloromethane	4.55	49	24865	21.803	ug/l	99
29) Tetrahydrofuran	4.63	42	77537	99.078	ug/l	99
30) Chloroform	4.67	83	51705	20.382	ug/l	98
31) Cyclohexane	4.99	56	49893	19.152	ug/l	95
32) 1,1,1-Trichloroethane	4.91	97	41924	20.001	ug/l	98
36) 1,1-Dichloropropene	5.13	75	38753	19.915	ug/l	98
37) Ethyl Acetate	4.38	43	41423	19.393	ug/l	99
38) Carbon Tetrachloride	5.13	117	34391	21.190	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	47805	19.983	ug/l	98
40) Benzene	5.39	78	122037	20.105	ug/l	98
41) Methacrylonitrile	4.54	41	24087	21.067	ug/l	99
42) 1,2-Dichloroethane	5.40	62	38283	20.989	ug/l	99
43) Isopropyl Acetate	5.55	43	67138	20.490	ug/l	99
44) Trichloroethene	6.18	130	30923	20.561	ug/l	95
45) 1,2-Dichloropropane	6.43	63	32944	20.552	ug/l	99
46) Dibromomethane	6.56	93	20995	20.489	ug/l	98
47) Bromodichloromethane	6.76	83	39744	21.066	ug/l	99
48) Methyl methacrylate	6.62	41	33835	21.207	ug/l	99
49) 1,4-Dioxane	6.61	88	16413	434.093	ug/l	98
51) 4-Methyl-2-Pentanone	7.46	43	225809	101.264	ug/l	100
52) Toluene	7.63	92	73482	19.886	ug/l	98
53) t-1,3-Dichloropropene	7.88	75	45768	20.194	ug/l	100
54) cis-1,3-Dichloropropene	7.27	75	50144	20.476	ug/l	99
55) 1,1,2-Trichloroethane	8.06	97	31175	21.059	ug/l	97
56) Ethyl methacrylate	8.02	69	45579	19.985	ug/l	99
57) 1,3-Dichloropropane	8.24	76	51755	20.432	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	95029	94.746	ug/l	99
59) 2-Hexanone	8.36	43	175942	100.515	ug/l	100
60) Dibromochloromethane	8.47	129	30592	20.859	ug/l	98
61) 1,2-Dibromoethane	8.58	107	33254	20.712	ug/l	99
64) Tetrachloroethene	8.22	164	26581	20.345	ug/l	98
65) Chlorobenzene	9.12	112	80689	19.848	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	27652	20.959	ug/l	100
67) Ethyl Benzene	9.25	91	137613	20.275	ug/l	99
68) m/p-Xylenes	9.37	106	107783	40.870	ug/l	98
69) o-Xylene	9.78	106	51836	20.399	ug/l	100
70) Styrene	9.79	104	83880	20.136	ug/l	99
71) Bromoform	9.95	173	24138	20.548	ug/l #	100
73) Isopropylbenzene	10.16	105	136608	20.588	ug/l	99
74) N-amyl acetate	10.01	43	56448	19.742	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.46	83	53150	19.986	ug/l	98
76) 1,2,3-Trichloropropane	10.49	75	60009	27.321	ug/l	86
77) Bromobenzene	10.45	156	34283	19.826	ug/l	99
78) n-propylbenzene	10.58	91	162940	20.837	ug/l	99
79) 2-Chlorotoluene	10.66	91	94867	19.999	ug/l	98
80) 1,3,5-Trimethylbenzene	10.77	105	112937	20.382	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.49	75	60009	70.461	ug/l #	100
82) 4-Chlorotoluene	10.77	91	107848	19.828	ug/l	99
83) tert-Butylbenzene	11.10	119	111151	20.352	ug/l	99
84) 1,2,4-Trimethylbenzene	11.14	105	114943	20.777	ug/l	100
85) sec-Butylbenzene	11.32	105	139058	21.053	ug/l	100
86) p-Isopropyltoluene	11.47	119	118207	21.002	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	62298	19.642	ug/l	98
88) 1,4-Dichlorobenzene	11.50	146	63941	19.530	ug/l	99
89) n-Butylbenzene	11.89	91	106953	21.291	ug/l	99
90) Hexachloroethane	12.14	117	19412	20.502	ug/l	99
91) 1,2-Dichlorobenzene	11.88	146	63341	19.827	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.65	75	10485	20.499	ug/l	98

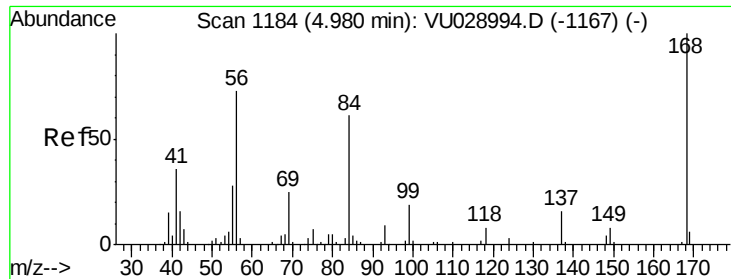
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	39989	19.609	ug/l	99
94) Hexachlorobutadiene	13.69	225	20806	22.306	ug/l	99
95) Naphthalene	13.74	128	125944	18.155	ug/l	99
96) 1,2,3-Trichlorobenzene	13.98	180	40838	19.926	ug/l	98

(#) = 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: VU029154.D

Acq: 14 Jan 2019 10:34

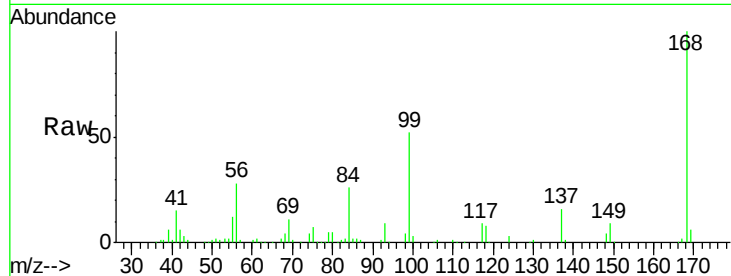
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 122673

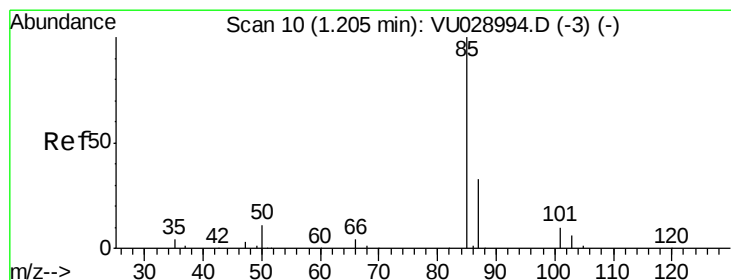
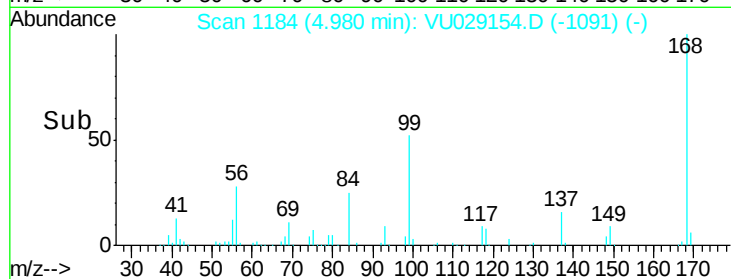
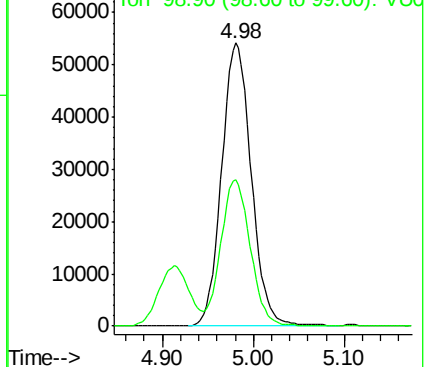
Ion Ratio Lower Upper

168 100

99 51.8 42.0 63.0



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



#2

Dichlorodifluoromethane

Concen: 18.624 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU029154.D

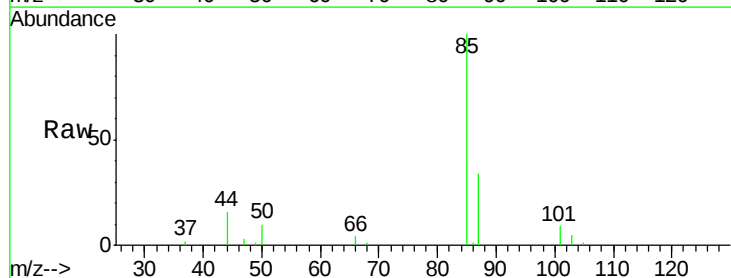
Acq: 14 Jan 2019 10:34

Tgt Ion: 85 Resp: 22657

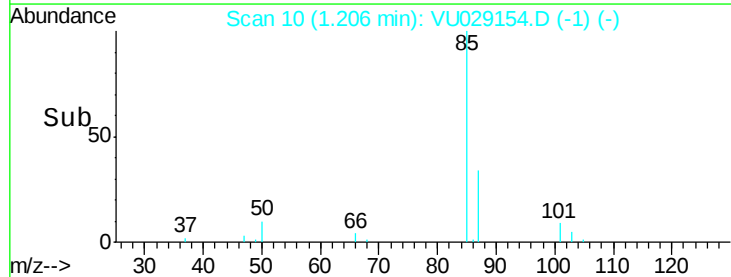
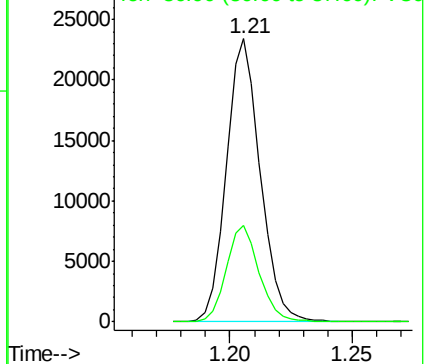
Ion Ratio Lower Upper

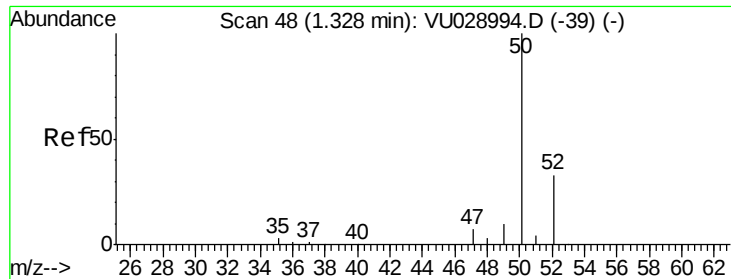
85 100

87 33.9 16.3 48.8



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





#3

Chloromethane

Concen: 16.535 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

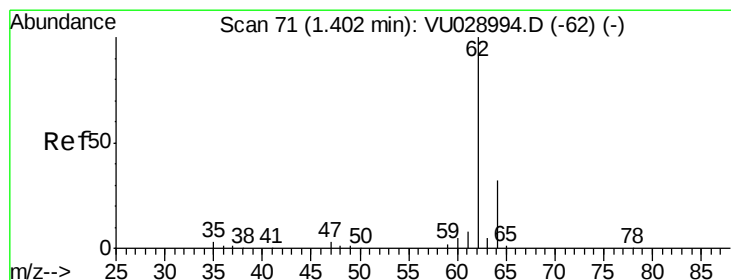
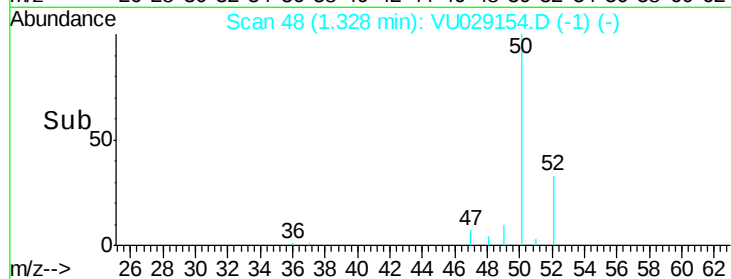
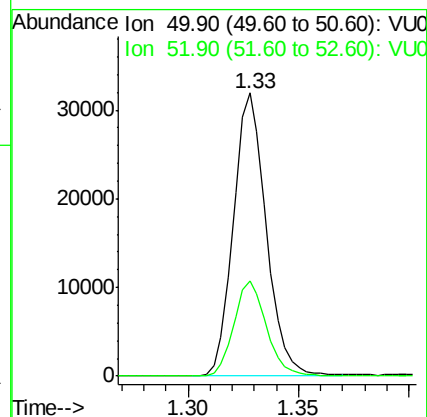
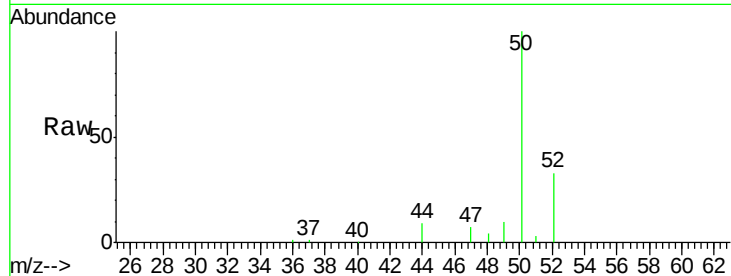
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 50 Resp: 33014

Ion Ratio Lower Upper

50 100

52 33.5 26.1 39.1



#4

Vinyl Chloride

Concen: 18.478 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU029154.D

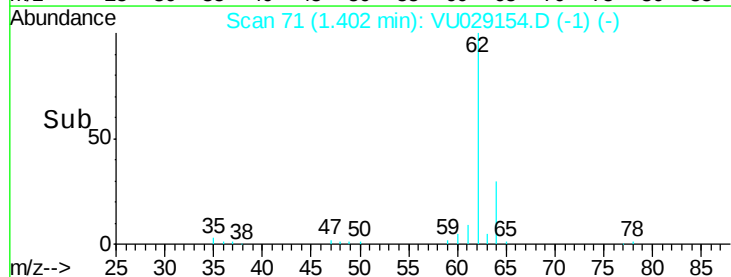
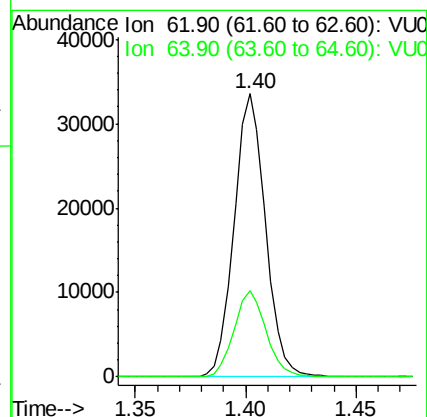
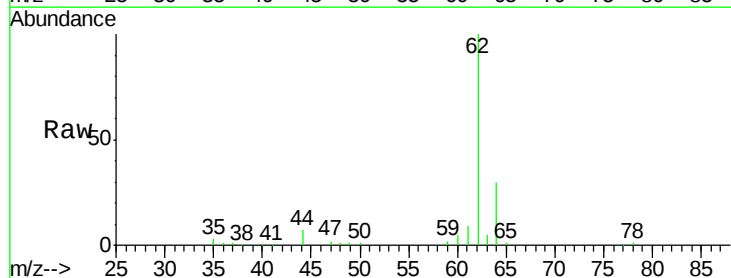
Acq: 14 Jan 2019 10:34

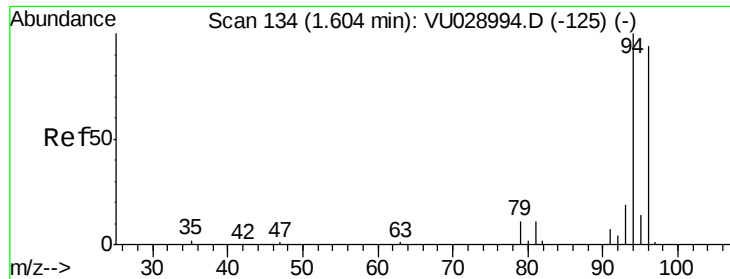
Tgt Ion: 62 Resp: 33128

Ion Ratio Lower Upper

62 100

64 30.3 25.9 38.9





#5

Bromomethane

Concen: 19.899 ug/l

RT: 1.62 min Scan# 138

Delta R.T. 0.01 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

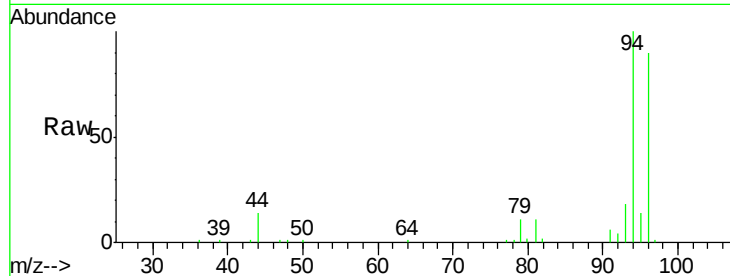
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 94 Resp: 20027

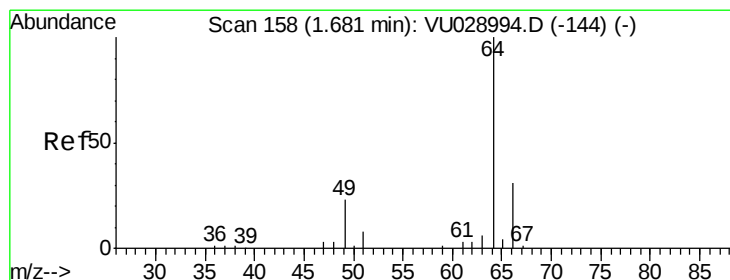
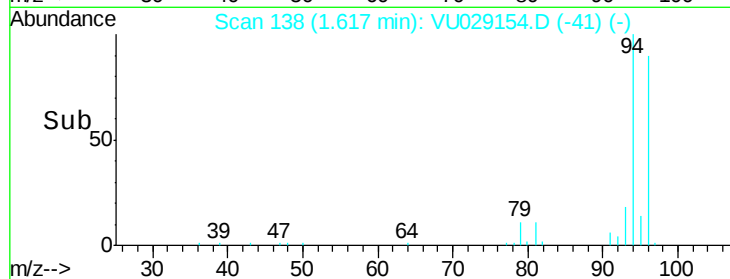
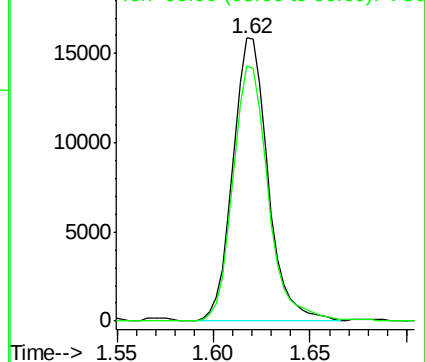
Ion Ratio Lower Upper

94 100

96 90.2 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: 19.051 ug/l

RT: 1.69 min Scan# 162

Delta R.T. 0.01 min

Lab File: VU029154.D

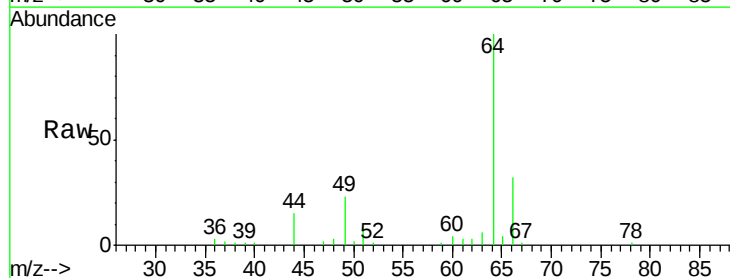
Acq: 14 Jan 2019 10:34

Tgt Ion: 64 Resp: 20344

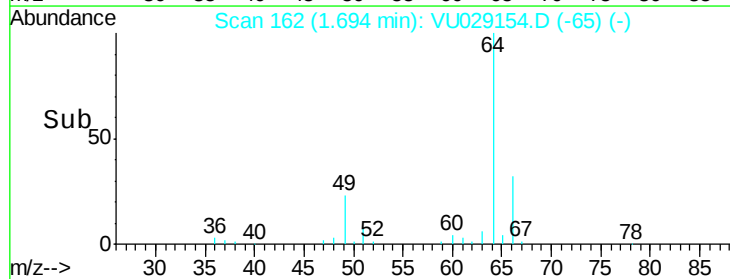
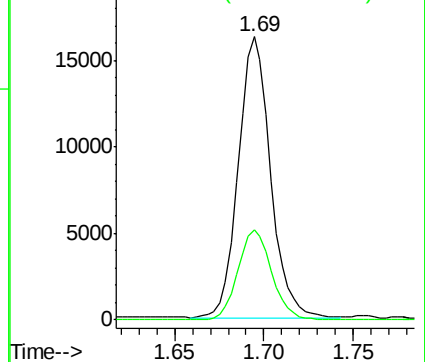
Ion Ratio Lower Upper

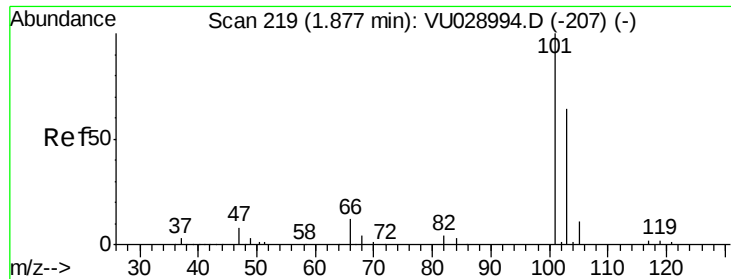
64 100

66 32.2 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VU0
Ion 65.90 (65.60 to 66.60): VU0



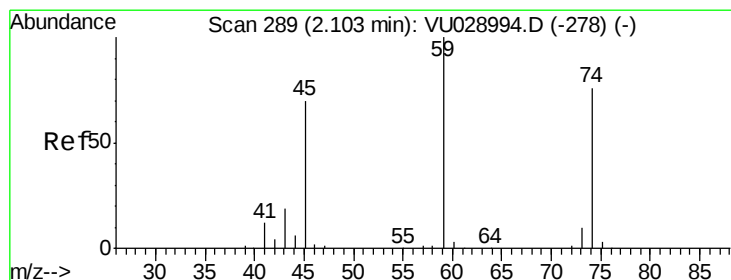
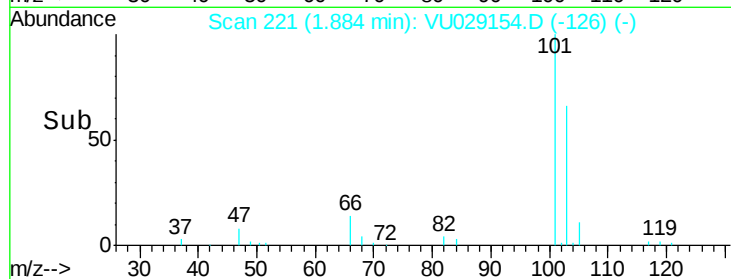
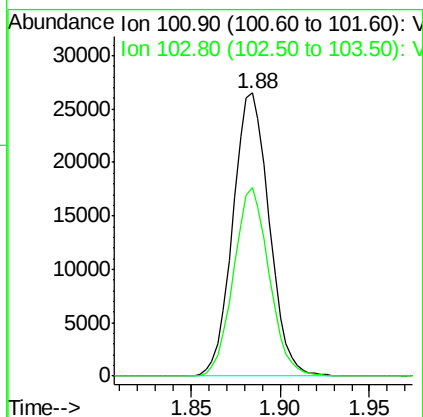
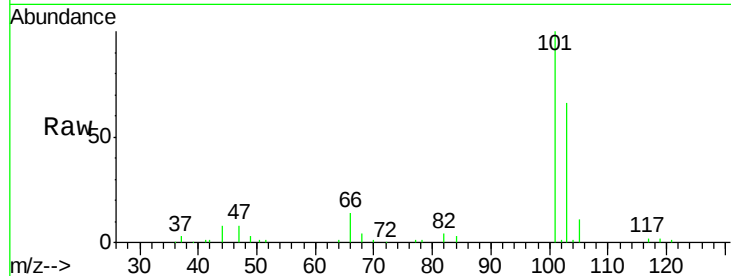


#7

Trichlorofluoromethane
 Concen: 19.208 ug/l
 RT: 1.88 min Scan# 221
 Delta R.T. 0.01 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

Instrument :
 MSVOA_U
 ClientSampled :

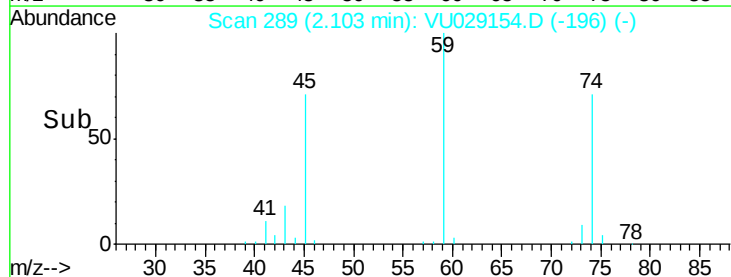
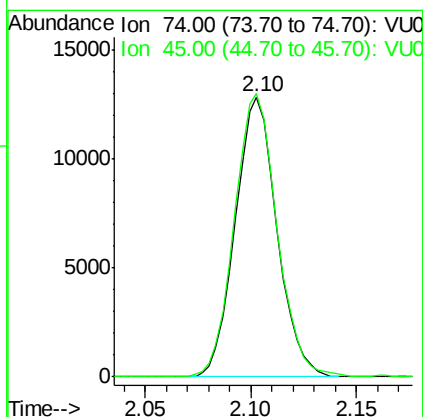
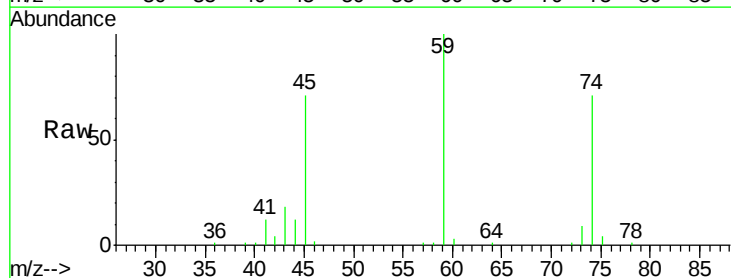
Tot Ion:101 Resp: 37523
 Ion Ratio Lower Upper
 101 100
 103 66.5 51.5 77.3

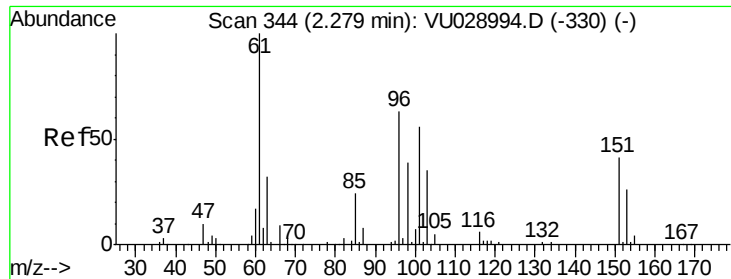


#8

Diethyl Ether
 Concen: 18.698 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. 0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

Tgt Ion: 74 Resp: 17549
 Ion Ratio Lower Upper
 74 100
 45 103.9 46.9 140.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.701 ug/l

RT: 2.29 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :

MSVOA_U

ClientSampleId :

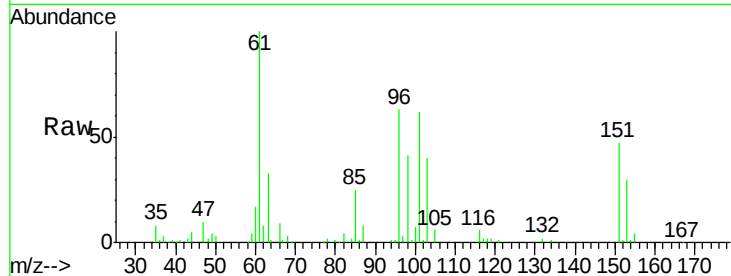
Tot Ion:101 Resp: 25752

Ion Ratio Lower Upper

101 100

85 42.9 35.1 52.7

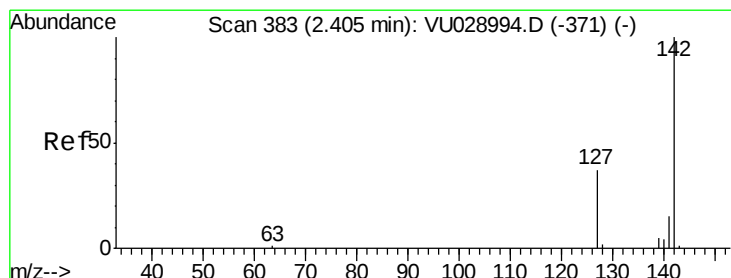
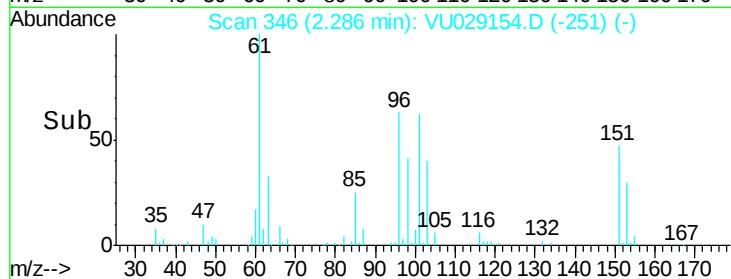
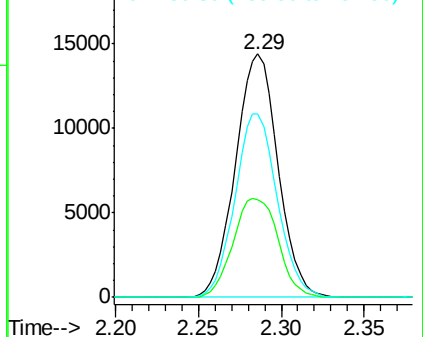
151 75.0 60.2 90.2



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: 18.478 ug/l

RT: 2.41 min Scan# 384

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

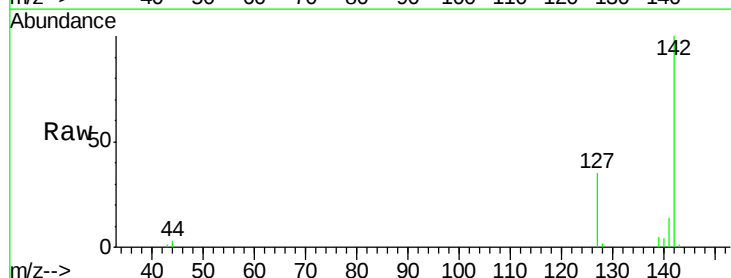
Tgt Ion:142 Resp: 22710

Ion Ratio Lower Upper

142 100

127 36.2 29.8 44.6

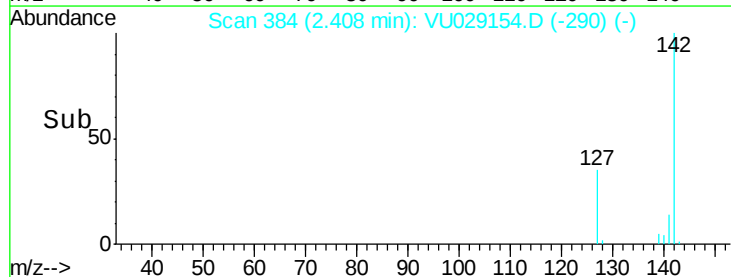
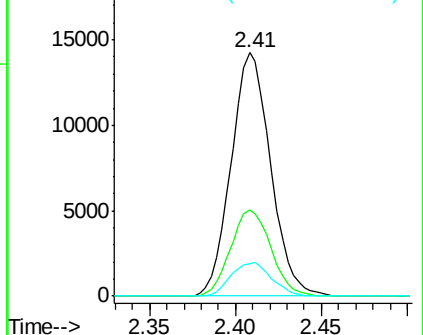
141 14.1 11.5 17.3



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



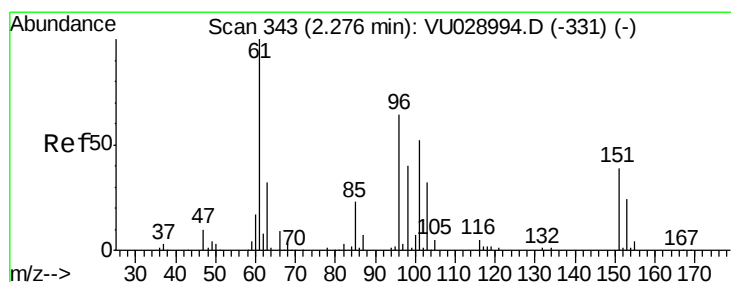
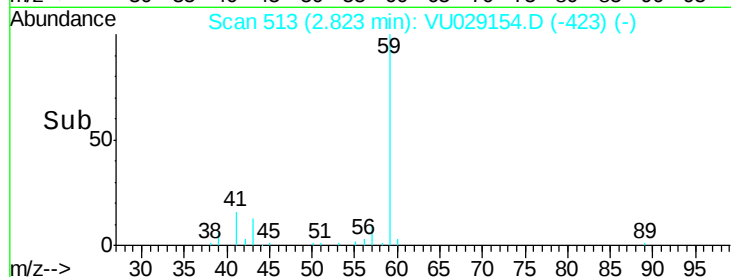
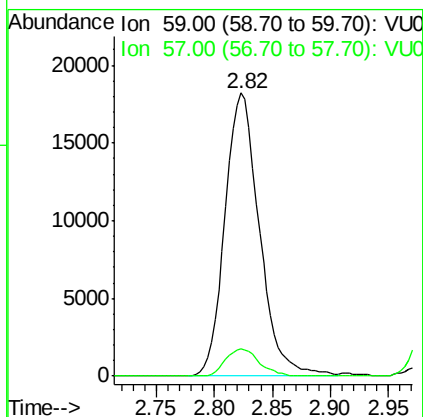
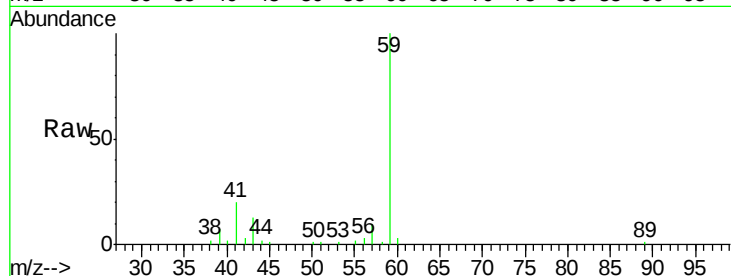


#11

Tert butyl alcohol
 Concen: 97.487 ug/l
 RT: 2.82 min Scan# 513
 Delta R.T. -0.01 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

Instrument :
 MSVOA_U
 ClientSampled :

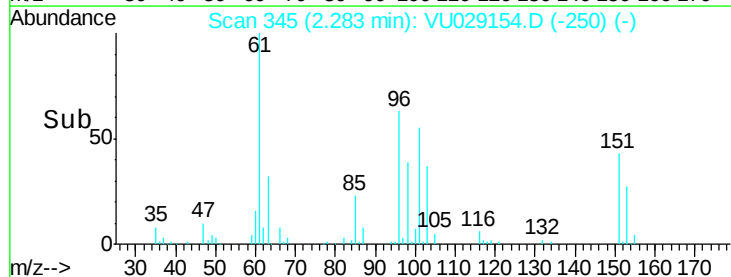
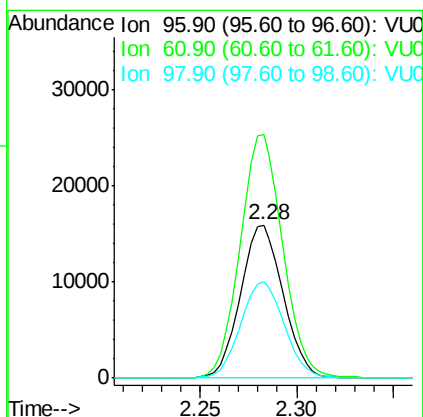
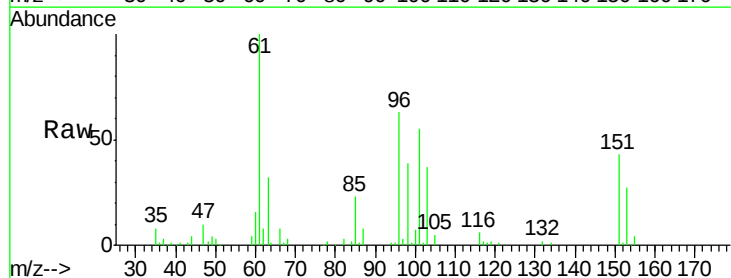
Tot Ion: 59 Resp: 37578
 Ion Ratio Lower Upper
 59 100
 57 9.4 7.9 11.9

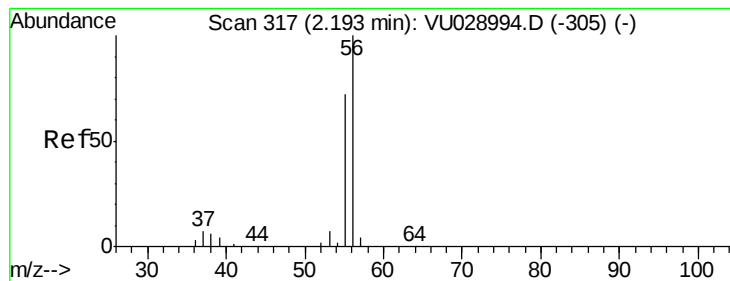


#12

1,1-Dichloroethene
 Concen: 19.104 ug/l
 RT: 2.28 min Scan# 345
 Delta R.T. 0.01 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

Tgt Ion: 96 Resp: 24306
 Ion Ratio Lower Upper
 96 100
 61 159.3 125.4 188.0
 98 62.7 49.7 74.5





#13

Acrolein

Concen: 89.858 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

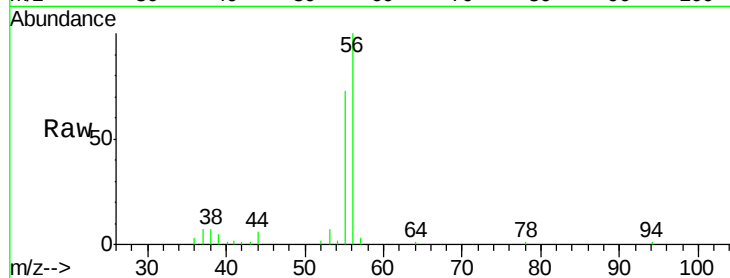
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 26009

Ion Ratio Lower Upper

56 100

55 70.2 56.5 84.7



Abundance Ion 56.00 (55.70 to 56.70): VU029154.D (-224) (-)

Ion 55.00 (54.70 to 55.70): VU029154.D (-224) (-)

20000

15000

10000

5000

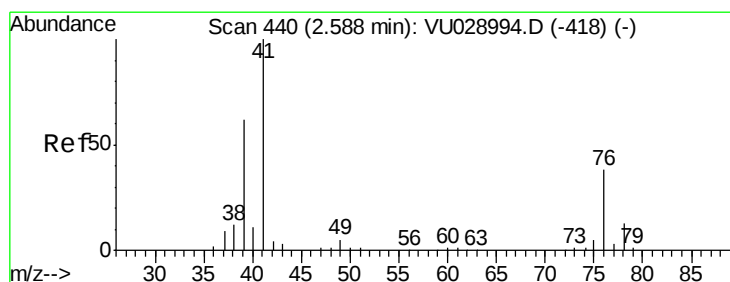
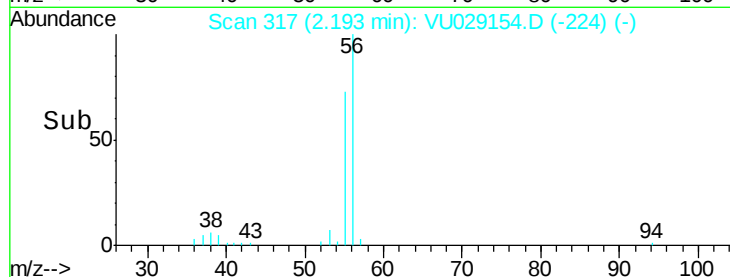
0

Time-->

2.15

2.20

2.25



#14

Allyl chloride

Concen: 18.019 ug/l

RT: 2.59 min Scan# 441

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

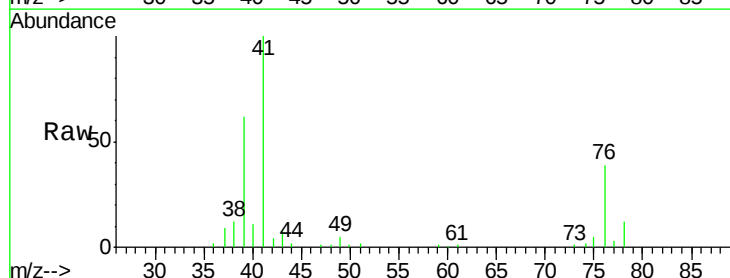
Tgt Ion: 41 Resp: 42064

Ion Ratio Lower Upper

41 100

39 63.6 45.0 67.6

76 38.6 28.1 42.1



Abundance Ion 41.00 (40.70 to 41.70): VU029154.D (-347) (-)

Ion 39.00 (38.70 to 39.70): VU029154.D (-347) (-)

Ion 75.90 (75.60 to 76.60): VU029154.D (-347) (-)

30000

25000

20000

15000

10000

5000

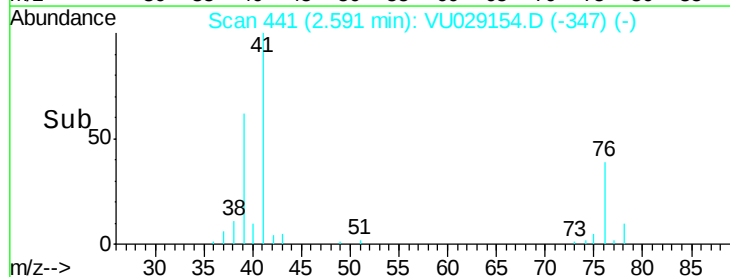
0

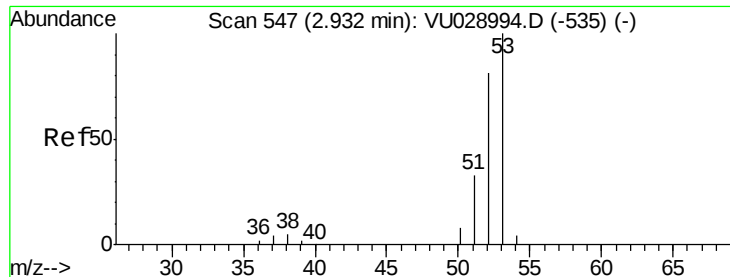
Time-->

2.55

2.60

2.65





#15

Acrylonitrile

Concen: 97.210 ug/l

RT: 2.93 min Scan# 547

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :
MSVOA_U
ClientSampled :

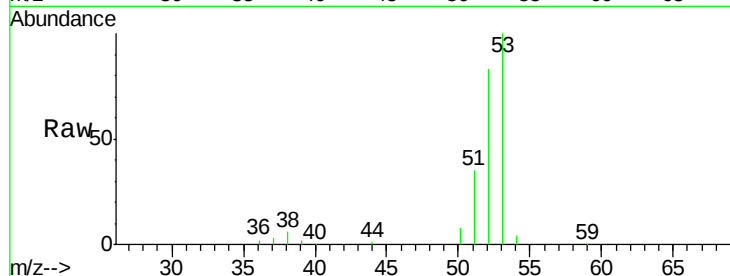
Tot Ion: 53 Resp: 91930

Ion Ratio Lower Upper

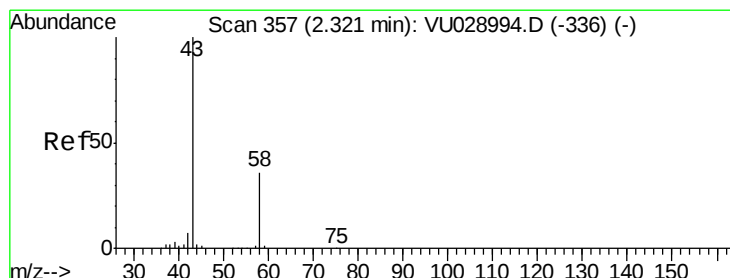
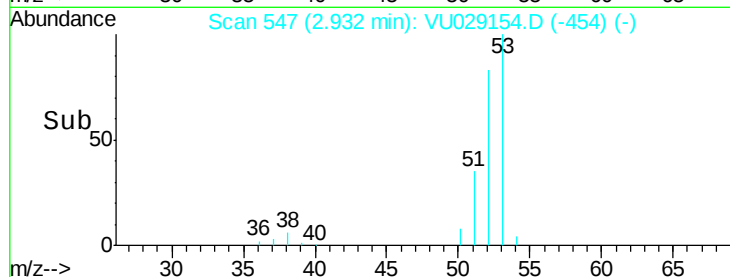
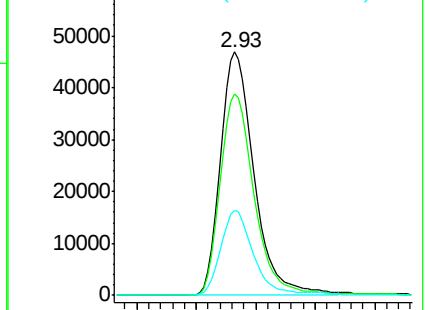
53 100

52 83.3 64.8 97.2

51 34.5 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: 101.882 ug/l

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

Lab File: VU029154.D

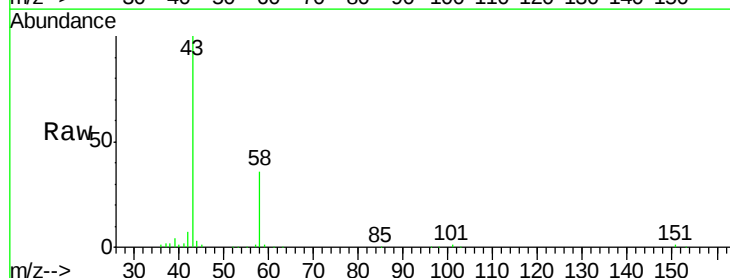
Acq: 14 Jan 2019 10:34

Tgt Ion: 43 Resp: 97330

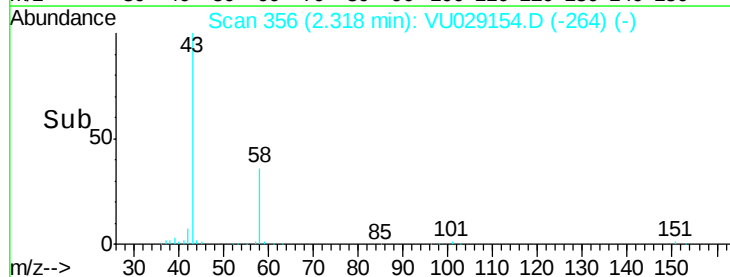
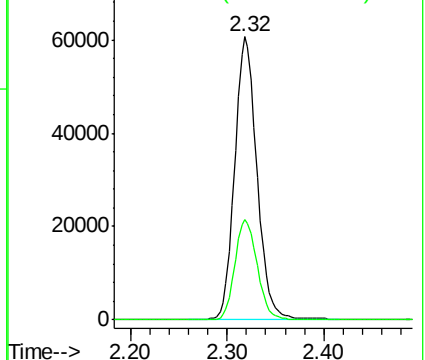
Ion Ratio Lower Upper

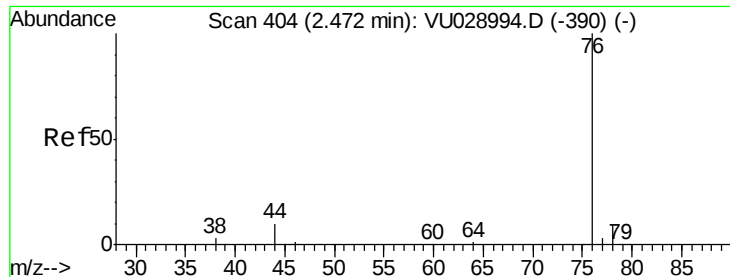
43 100

58 35.7 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: 17.818 ug/l

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

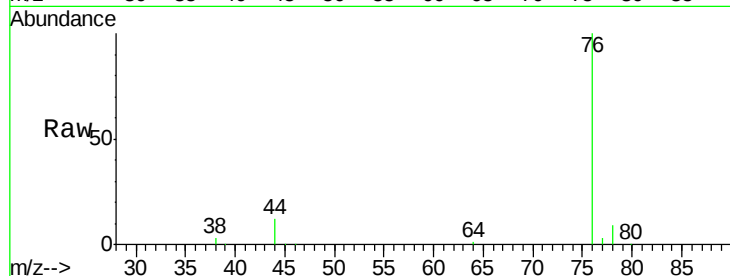
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 76 Resp: 76581

Ion Ratio Lower Upper

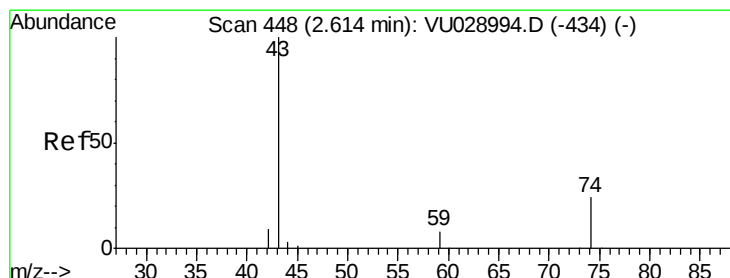
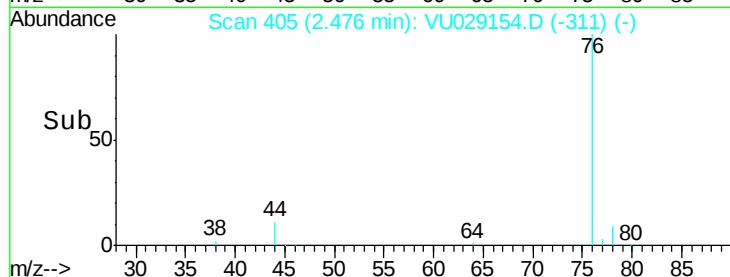
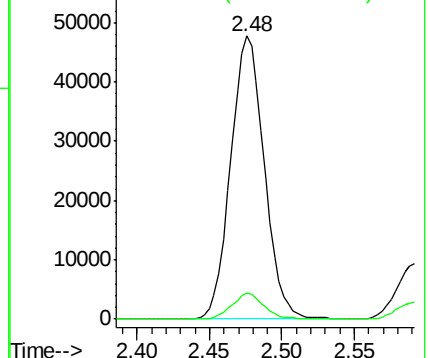
76 100

78 9.4 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VU028994.D (-390) (-)

Ion 77.90 (77.60 to 78.60): VU029154.D (-311) (-)



#18

Methyl Acetate

Concen: 20.629 ug/l

RT: 2.61 min Scan# 448

Delta R.T. 0.00 min

Lab File: VU029154.D

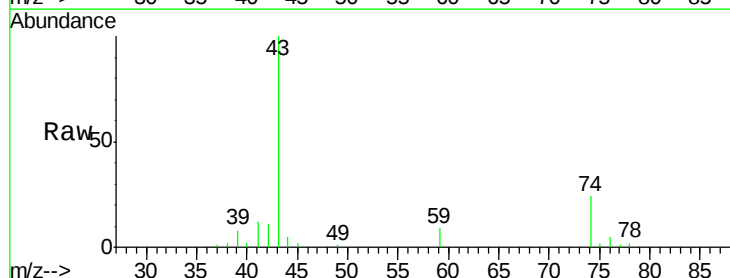
Acq: 14 Jan 2019 10:34

Tgt Ion: 43 Resp: 45822

Ion Ratio Lower Upper

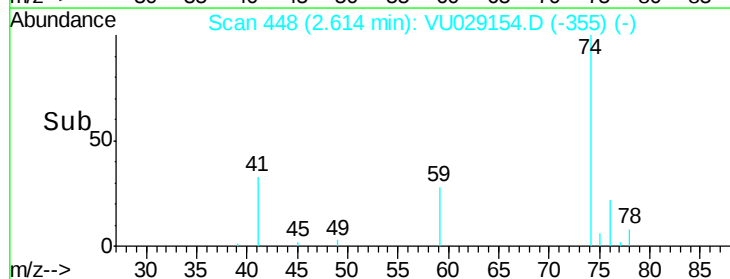
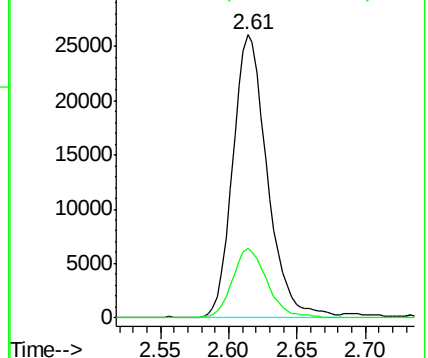
43 100

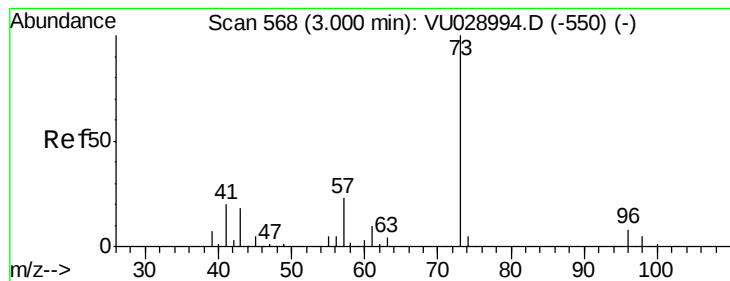
74 24.8 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-434) (-)

Ion 74.00 (73.70 to 74.70): VU029154.D (-355) (-)



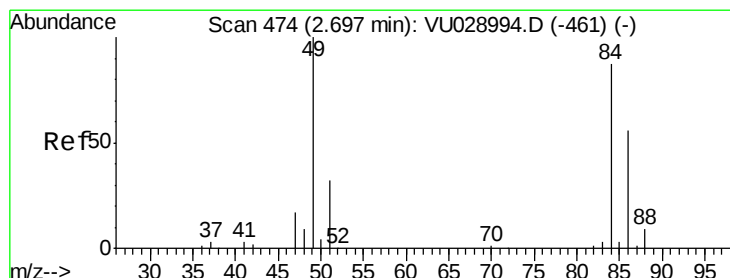
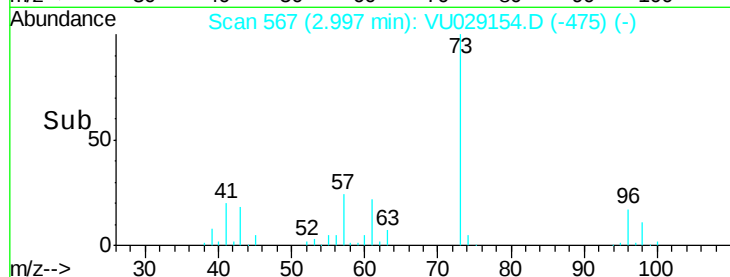
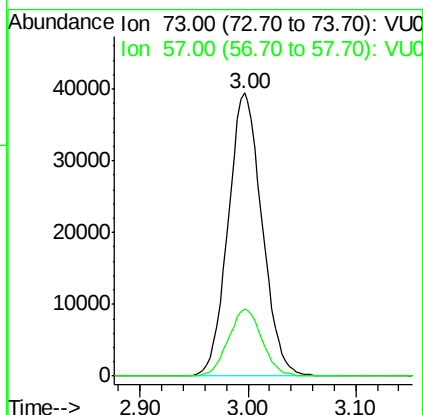
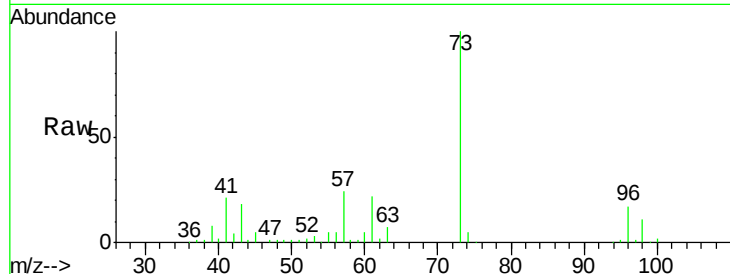


#19

Methyl tert-butyl Ether
 Concen: 19.296 ug/l
 RT: 3.00 min Scan# 567
 Delta R.T. -0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

Instrument :
 MSVOA_U
 ClientSampleId :

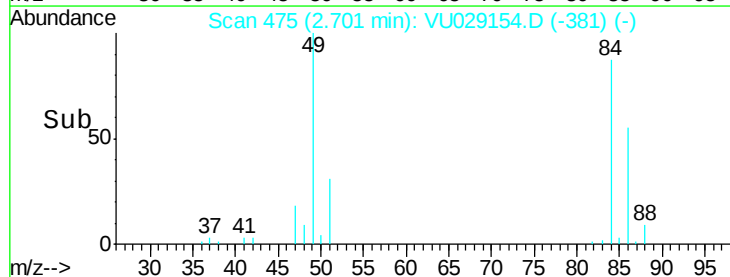
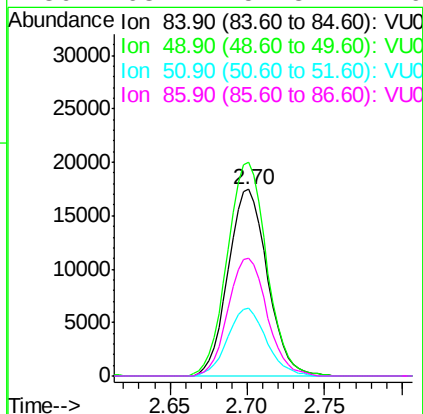
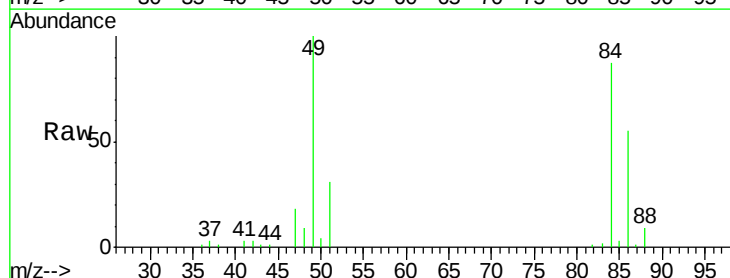
Tot Ion: 73 Resp: 86314
 Ion Ratio Lower Upper
 73 100
 57 23.6 18.6 28.0

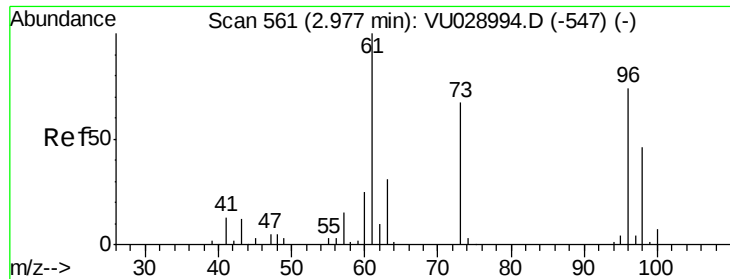


#20

Methylene Chloride
 Concen: 19.036 ug/l
 RT: 2.70 min Scan# 475
 Delta R.T. 0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

Tgt Ion: 84 Resp: 30876
 Ion Ratio Lower Upper
 84 100
 49 114.3 91.9 137.9
 51 36.0 29.2 43.8
 86 63.2 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 18.493 ug/l

RT: 2.98 min Scan# 562

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :
MSVOA_U
ClientSampleId :

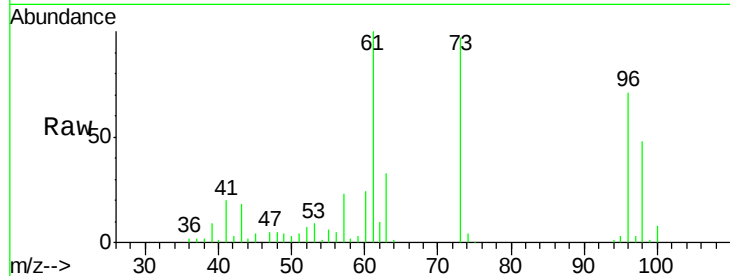
Tot Ion: 96 Resp: 27336

Ion Ratio Lower Upper

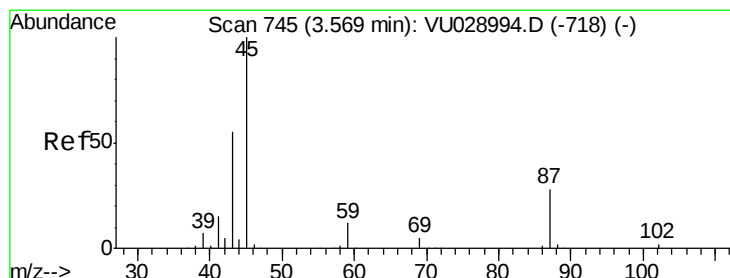
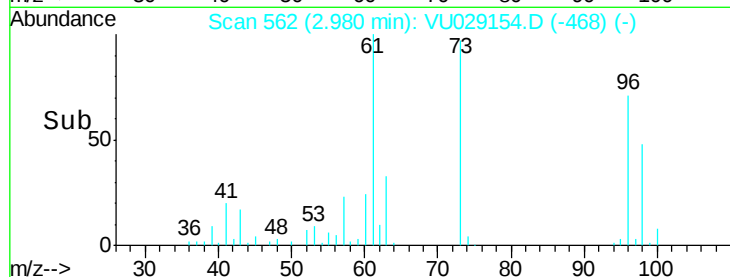
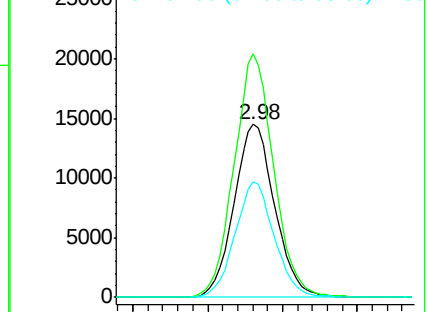
96 100

61 140.8 107.7 161.5

98 66.9 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: 19.989 ug/l

RT: 3.57 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Tgt Ion: 45 Resp: 92223

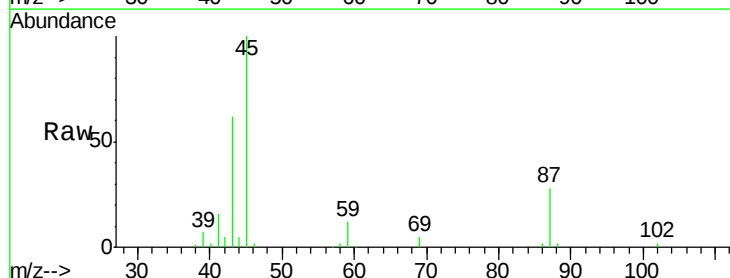
Ion Ratio Lower Upper

45 100

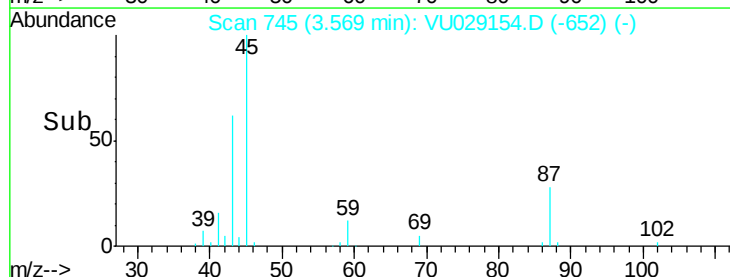
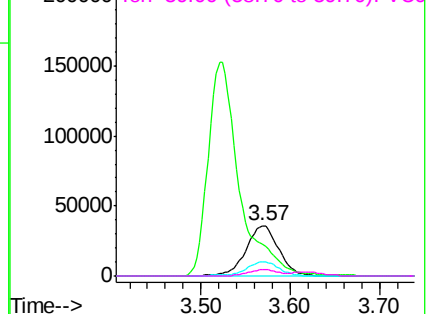
43 60.8 44.7 67.1

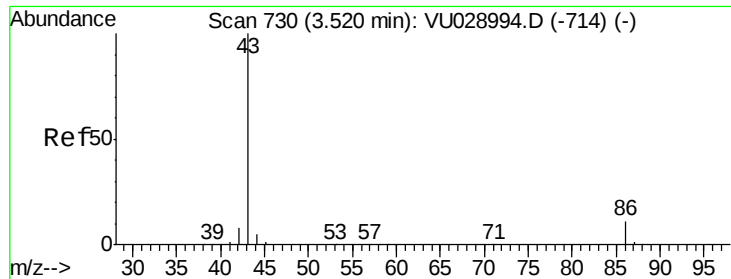
87 28.4 22.2 33.2

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: 98.769 ug/l

RT: 3.52 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

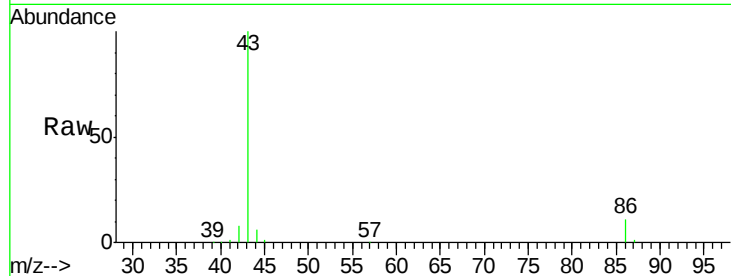
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 372534

Ion Ratio Lower Upper

43 100

86 10.5 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VU029154.D (-637) (-)

Ion 86.00 (85.70 to 86.70): VU029154.D (-637) (-)

3.52

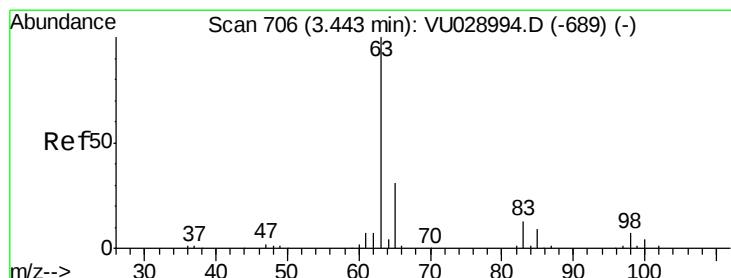
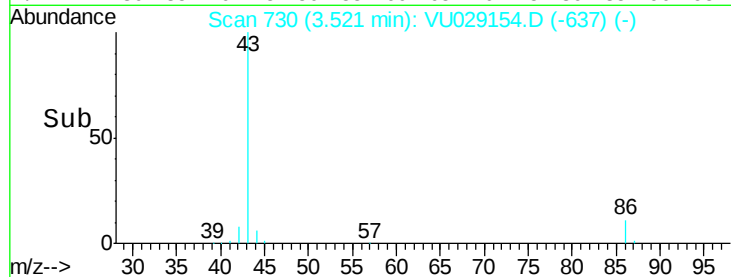
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.990 ug/l

RT: 3.44 min Scan# 706

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

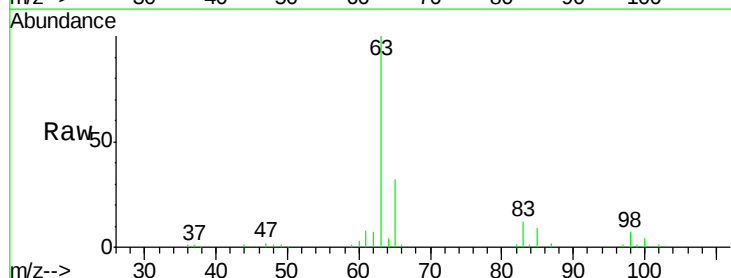
Tgt Ion: 63 Resp: 53242

Ion Ratio Lower Upper

63 100

98 7.0 3.4 10.1

100 4.4 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VU029154.D (-613) (-)

Ion 97.90 (97.60 to 98.60): VU029154.D (-613) (-)

Ion 99.90 (99.60 to 100.60): VU029154.D (-613) (-)

3.44

30000

25000

20000

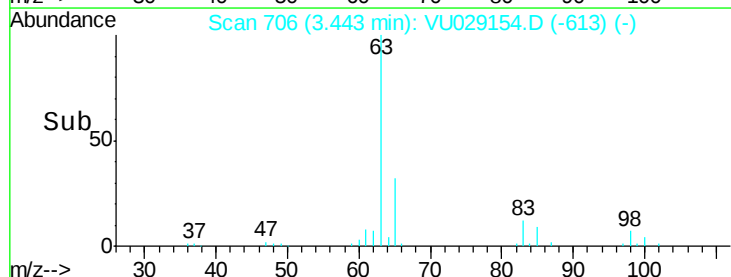
15000

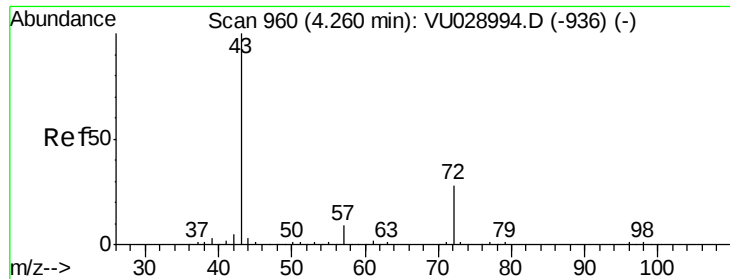
10000

5000

0

Time-->





#25

2-Butanone

Concen: 101.805 ug/l

RT: 4.26 min Scan# 959

Delta R.T. -0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

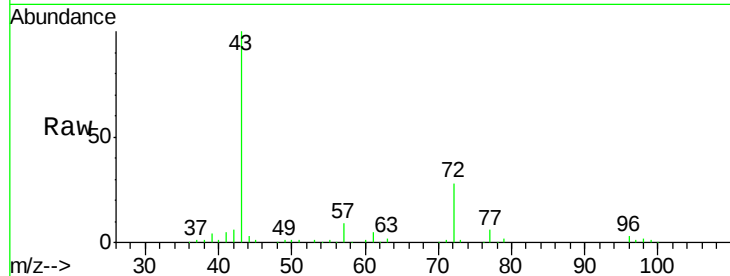
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 131359

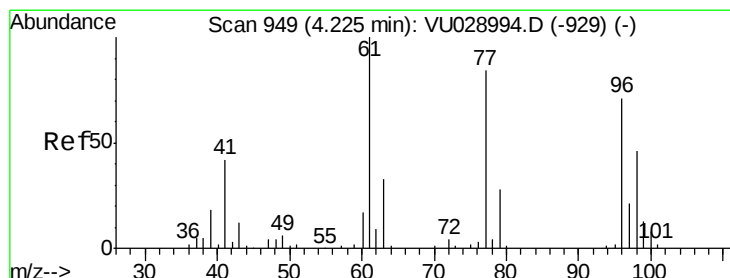
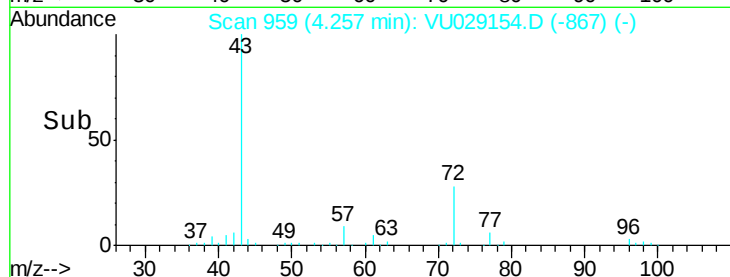
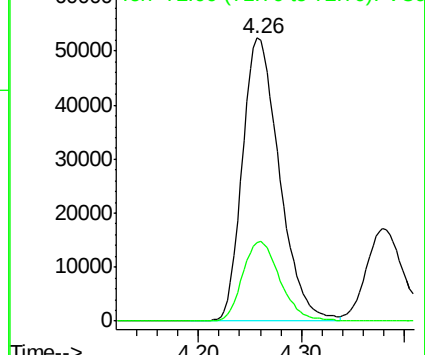
Ion Ratio Lower Upper

43 100

72 27.9 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 20.420 ug/l

RT: 4.22 min Scan# 949

Delta R.T. 0.00 min

Lab File: VU029154.D

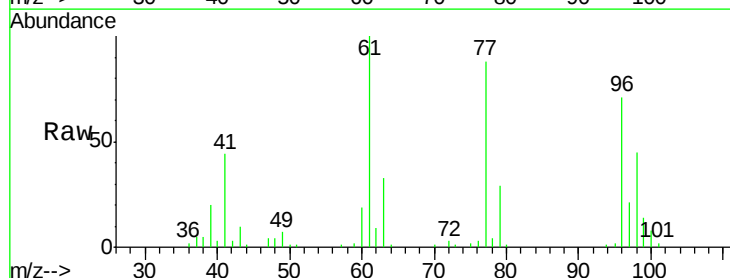
Acq: 14 Jan 2019 10:34

Tgt Ion: 77 Resp: 43945

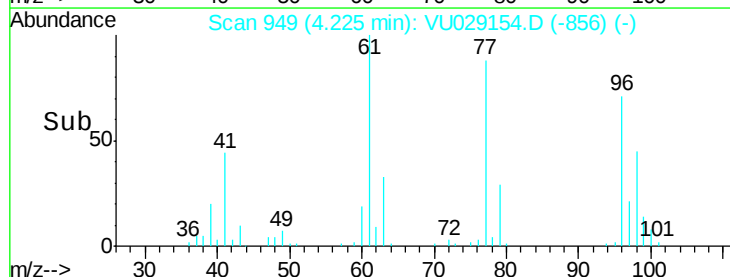
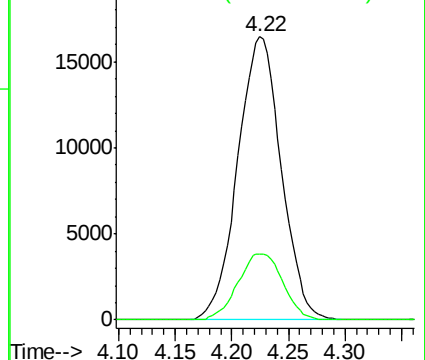
Ion Ratio Lower Upper

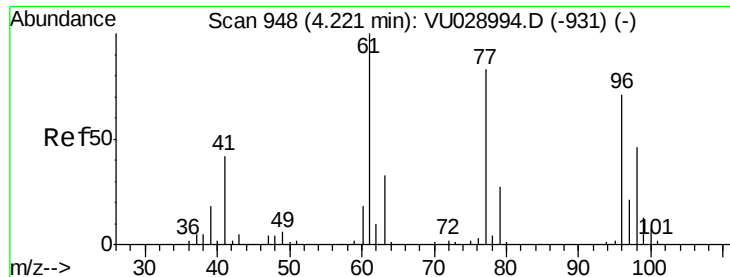
77 100

97 24.0 12.0 36.1



Abundance Ion 76.90 (76.60 to 77.60): VU0
Ion 96.90 (96.60 to 97.60): VU0



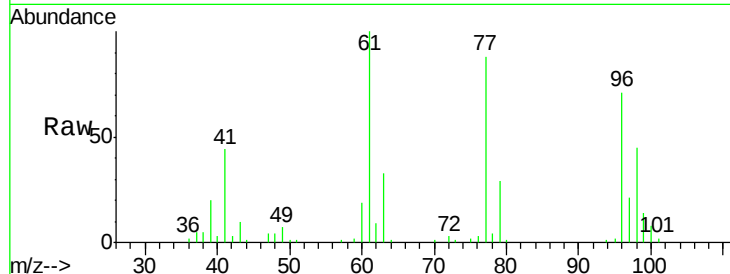


#27

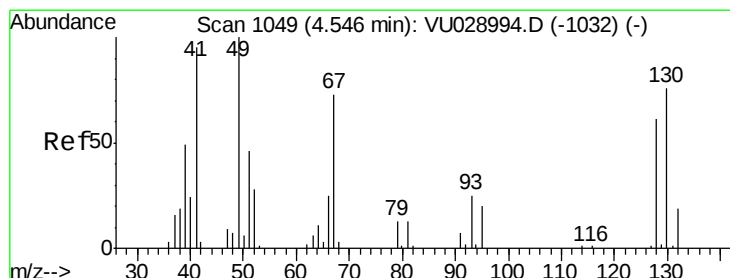
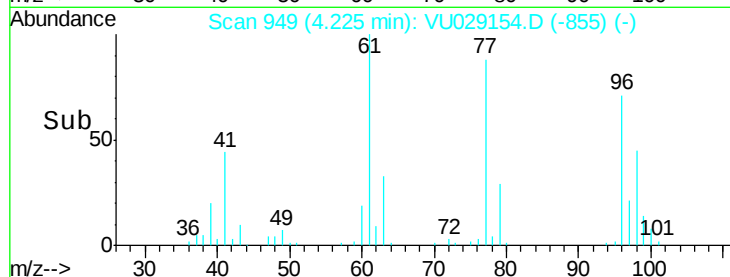
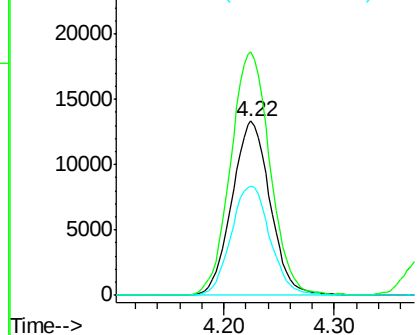
cis-1,2-Dichloroethene
Concen: 19.767 ug/l
RT: 4.22 min Scan# 949
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 96 Resp: 31958
Ion Ratio Lower Upper
96 100
61 144.2 0.0 285.6
98 63.8 0.0 130.2



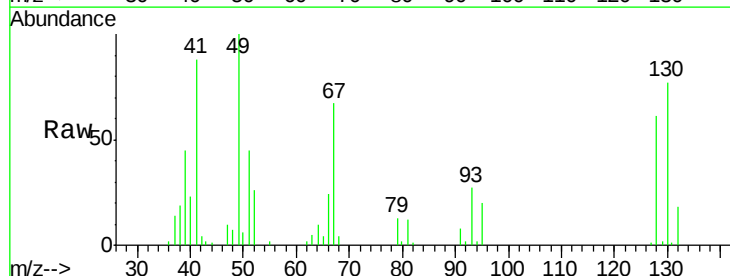
Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



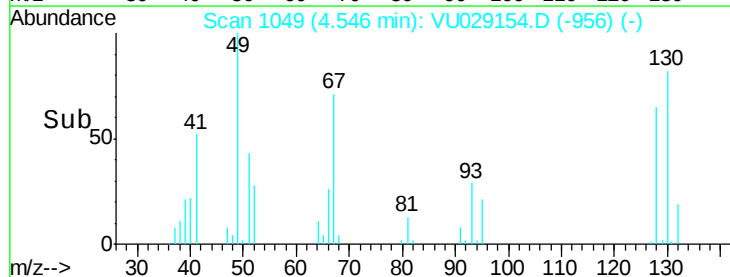
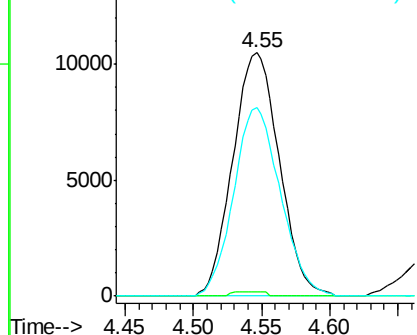
#28

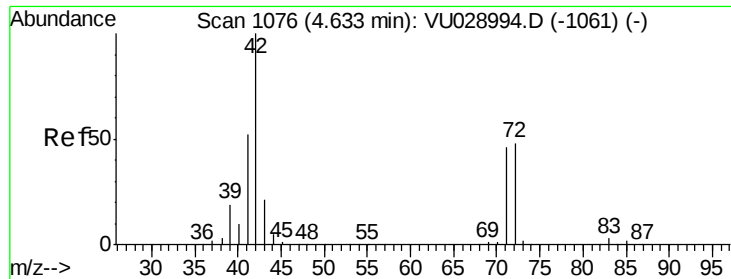
Bromochloromethane
Concen: 21.803 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion: 49 Resp: 24865
Ion Ratio Lower Upper
49 100
129 1.3 0.0 3.4
130 77.8 62.9 94.3



Abundance Ion 48.90 (48.60 to 49.60): VU0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V

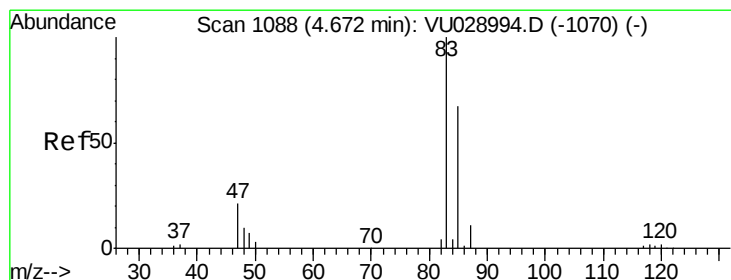
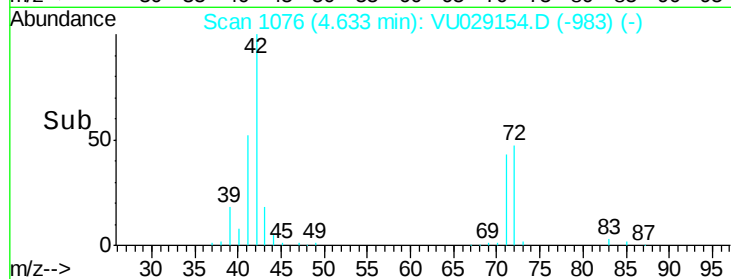
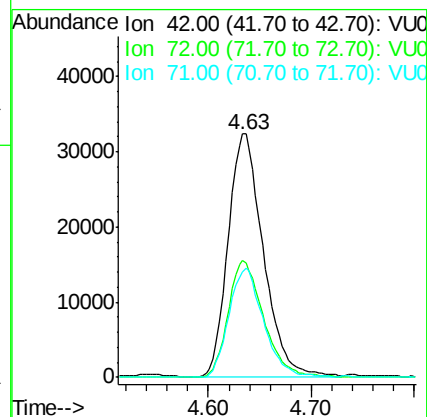
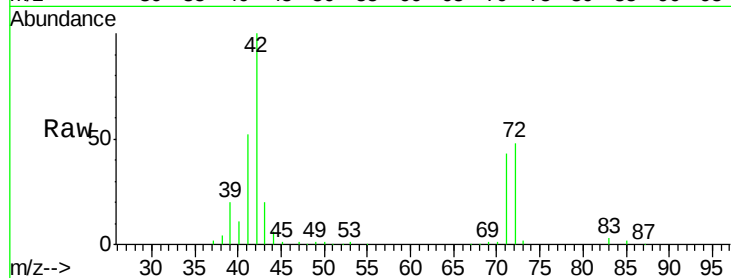




#29
Tetrahydrofuran
Concen: 99.078 ug/l
RT: 4.63 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

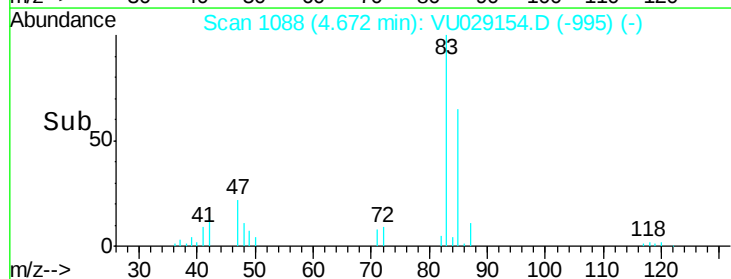
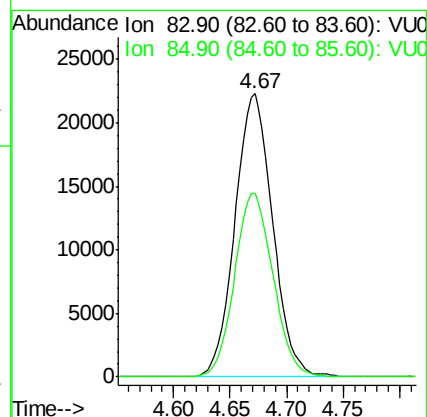
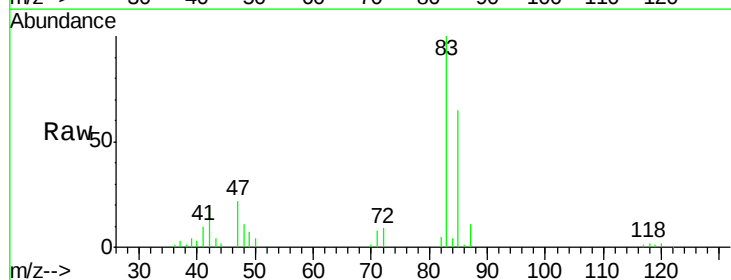
Instrument :
MSVOA_U
ClientSampleId :

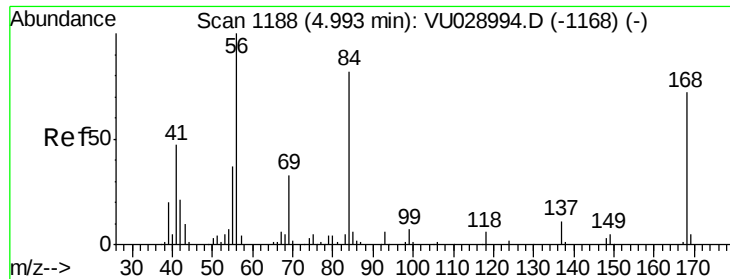
Tot Ion: 42 Resp: 77537
Ion Ratio Lower Upper
42 100
72 47.9 38.3 57.5
71 44.0 36.1 54.1



#30
Chloroform
Concen: 20.382 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion: 83 Resp: 51705
Ion Ratio Lower Upper
83 100
85 65.0 53.4 80.0





#31

Cyclohexane

Concen: 19.152 ug/l

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :
MSVOA_U
ClientSampleId :

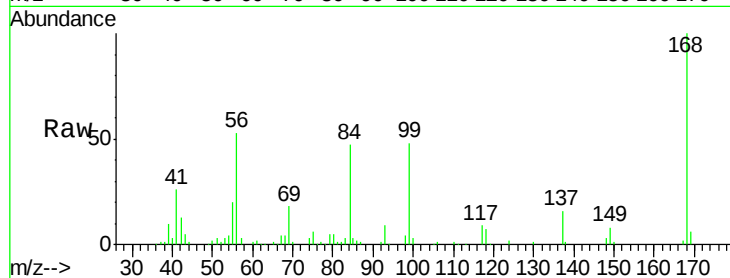
Tot Ion: 56 Resp: 49893

Ion Ratio Lower Upper

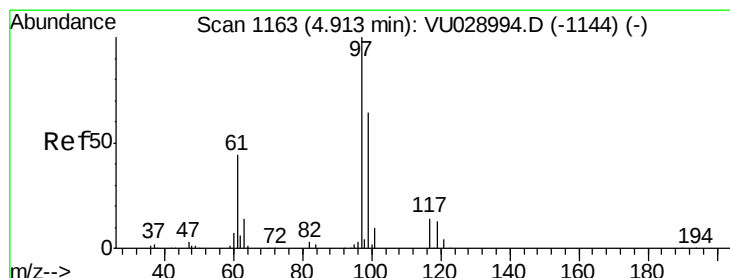
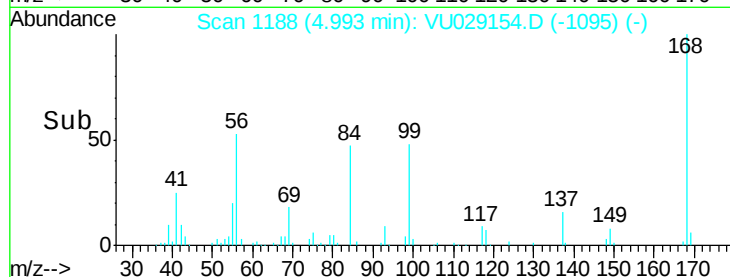
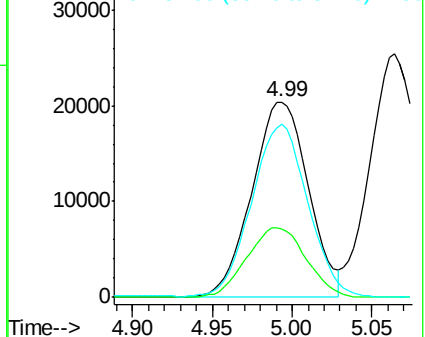
56 100

69 34.8 26.7 40.1

84 88.1 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: 20.001 ug/l

RT: 4.91 min Scan# 1163

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

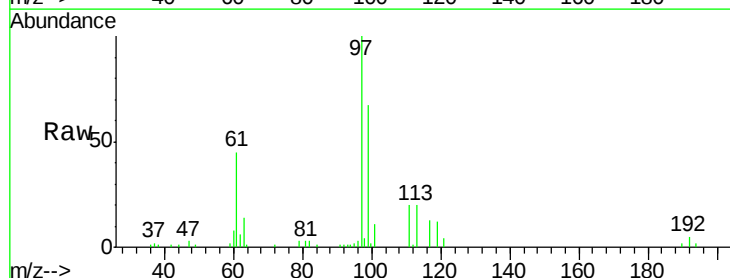
Tgt Ion: 97 Resp: 41924

Ion Ratio Lower Upper

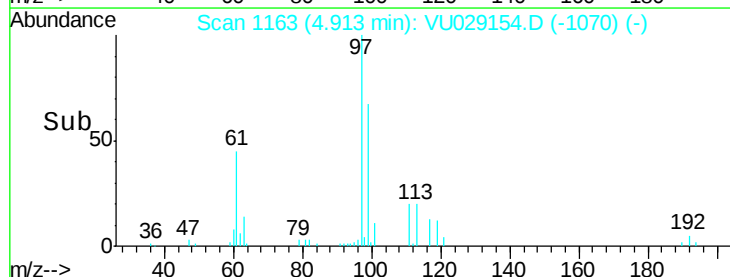
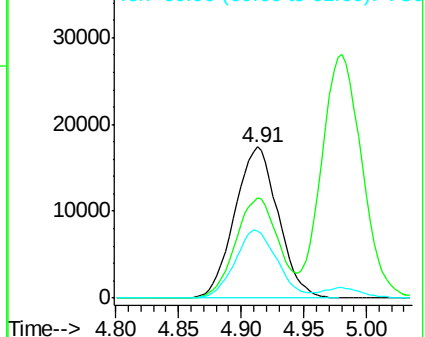
97 100

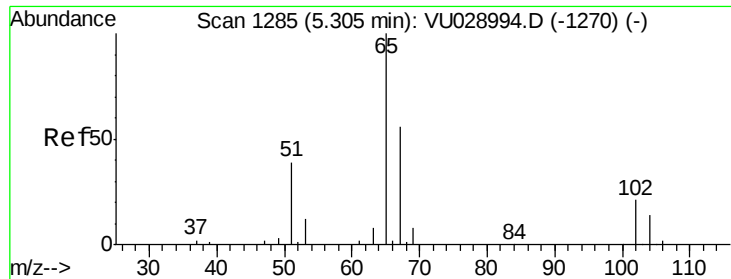
99 65.7 51.0 76.4

61 43.6 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

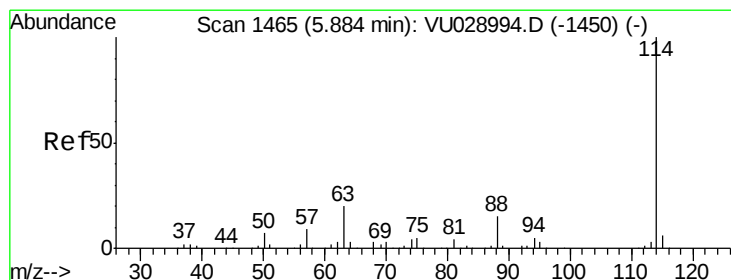
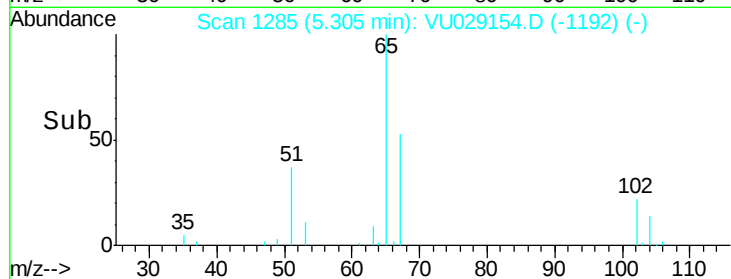
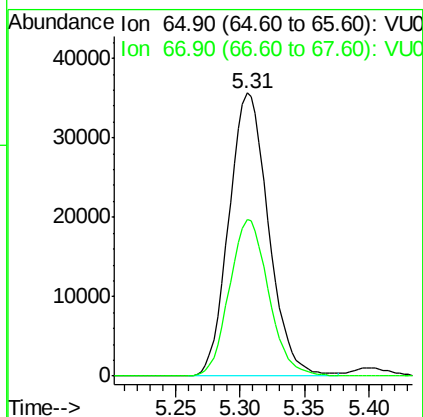
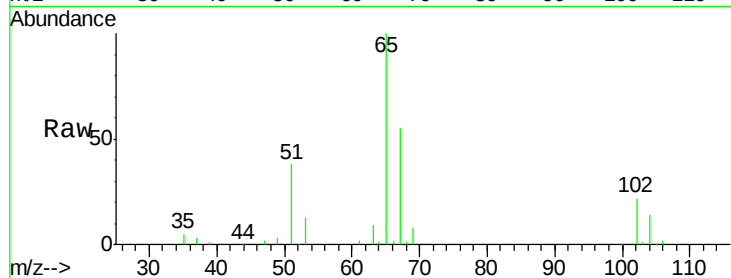




#33
 1,2-Dichloroethane-d4
 Concen: 50.149 ug/l
 RT: 5.31 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

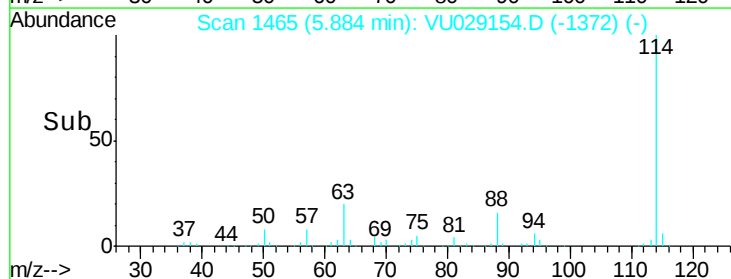
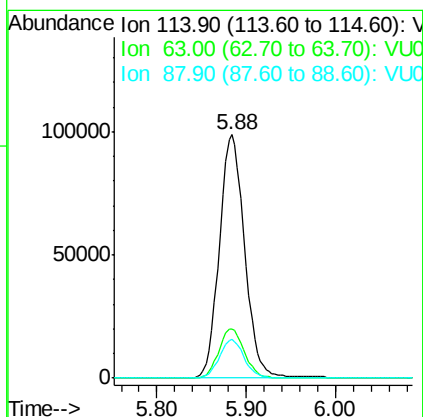
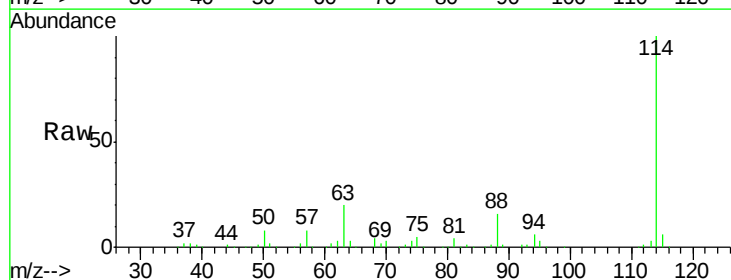
Instrument :
 MSVOA_U
 ClientSampleId :

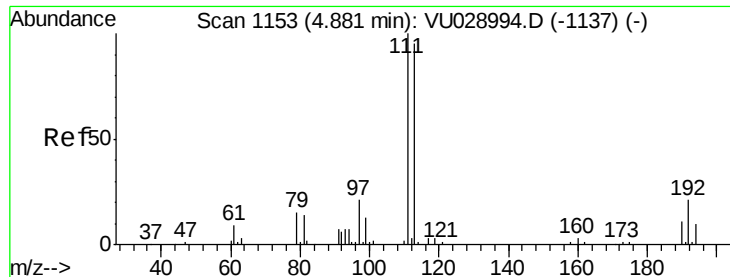
Tot Ion: 65 Resp: 76050
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

Tgt Ion: 114 Resp: 194683
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.2
 88 15.9 0.0 30.4

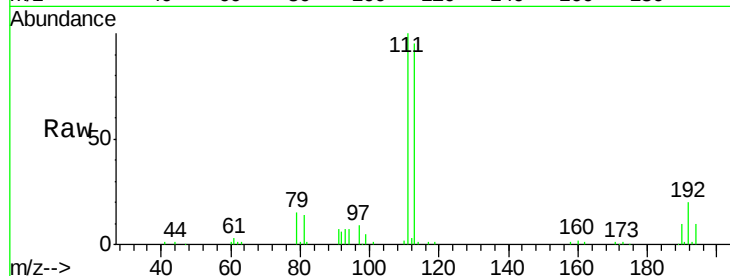




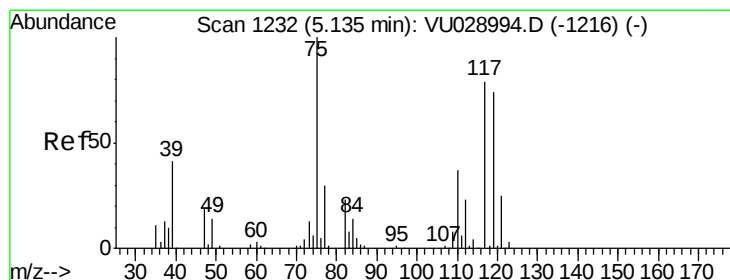
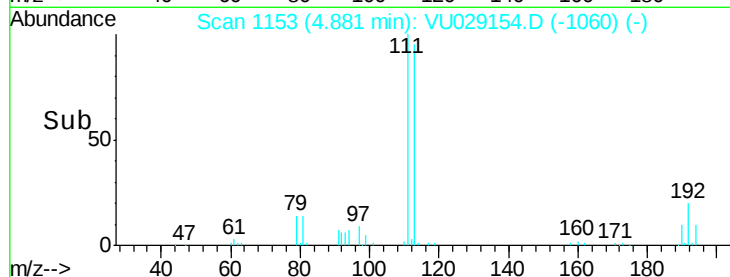
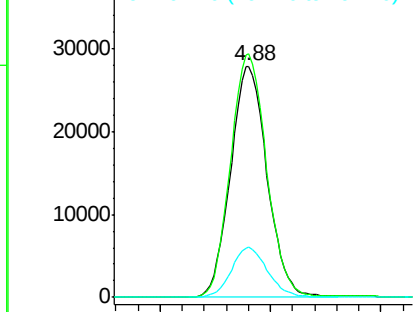
#35
 Dibromofluoromethane
 Concen: 50.838 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:113 Resp: 64157
 Ion Ratio Lower Upper
 113 100
 111 104.0 81.4 122.2
 192 21.3 16.8 25.2

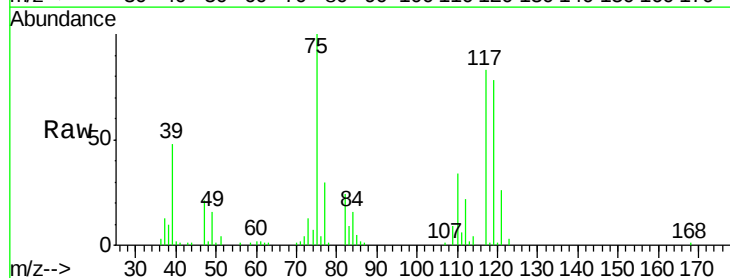


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

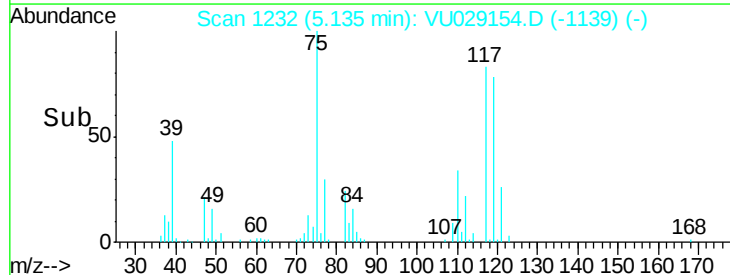
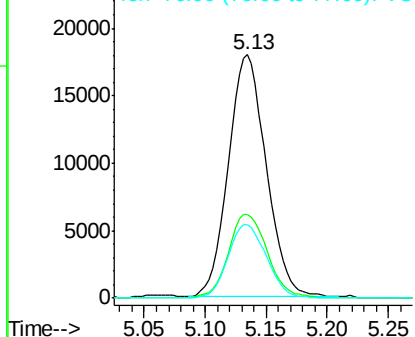


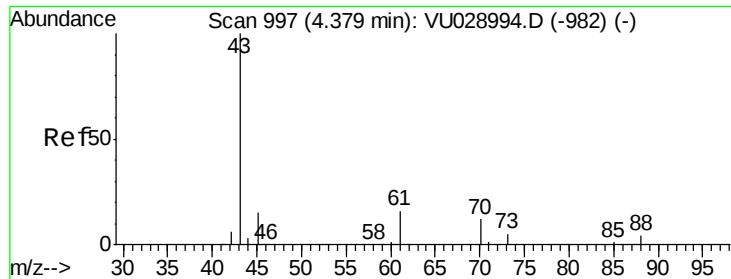
#36
 1,1-Dichloropropene
 Concen: 19.915 ug/l
 RT: 5.13 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

Tgt Ion: 75 Resp: 38753
 Ion Ratio Lower Upper
 75 100
 110 35.6 18.4 55.4
 77 30.7 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

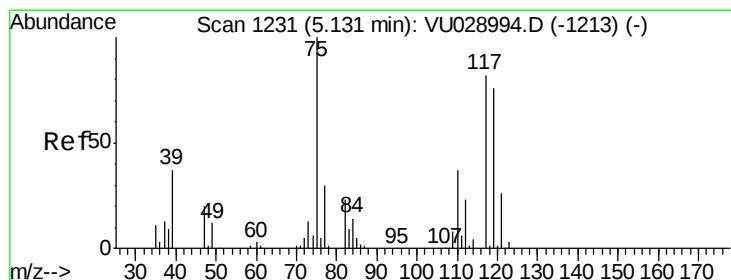
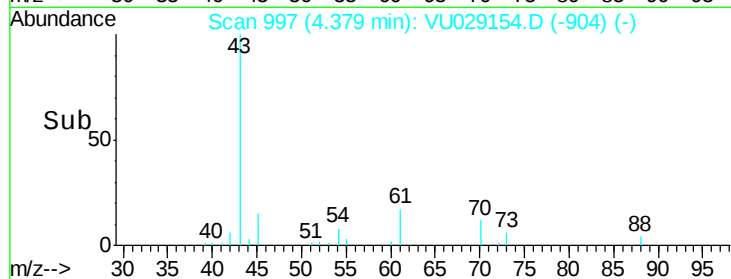
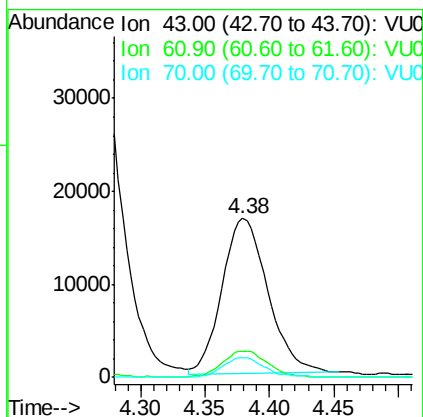
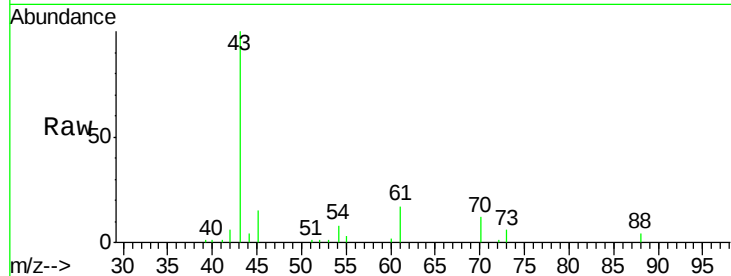




#37
Ethyl Acetate
Concen: 19.393 ug/l
RT: 4.38 min Scan# 997
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

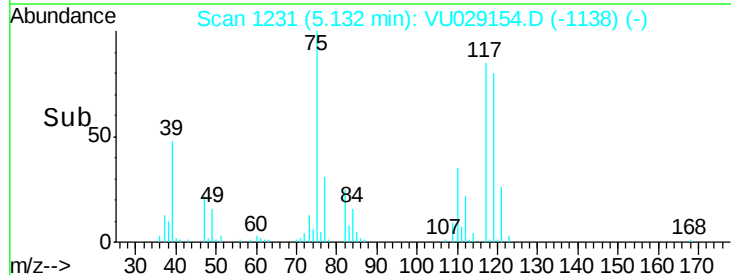
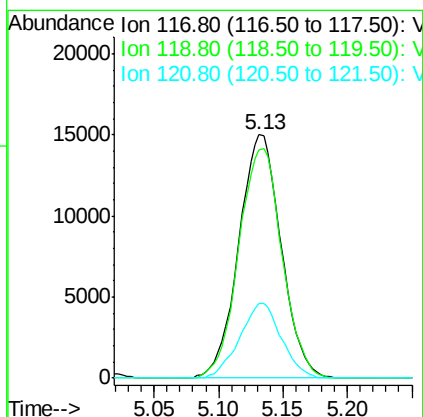
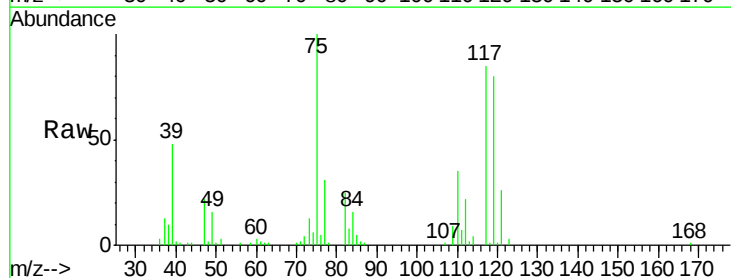
Instrument :
MSVOA_U
ClientSampleId :

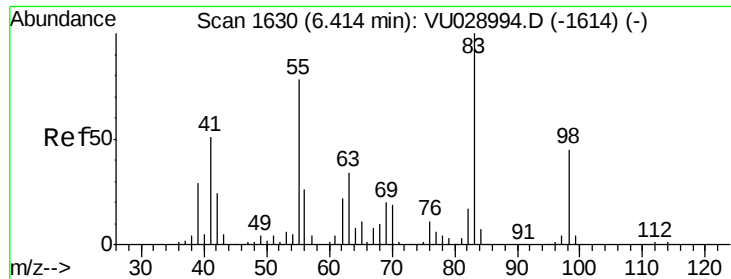
Tot Ion: 43 Resp: 41423
Ion Ratio Lower Upper
43 100
61 16.6 12.6 18.8
70 11.6 9.3 13.9



#38
Carbon Tetrachloride
Concen: 21.190 ug/l
RT: 5.13 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion: 117 Resp: 34391
Ion Ratio Lower Upper
117 100
119 94.0 74.6 111.8
121 30.7 25.0 37.6

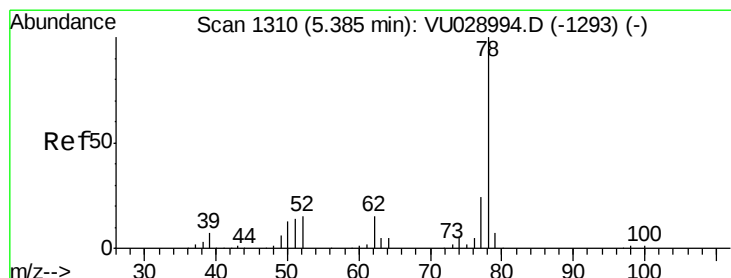
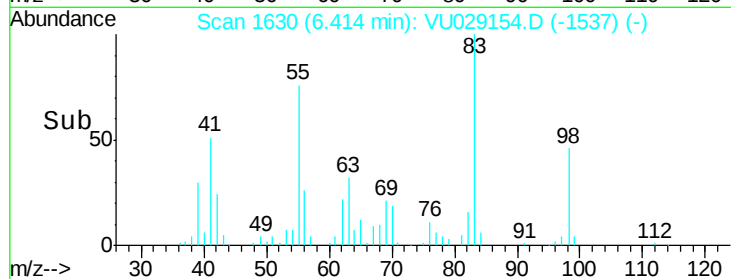
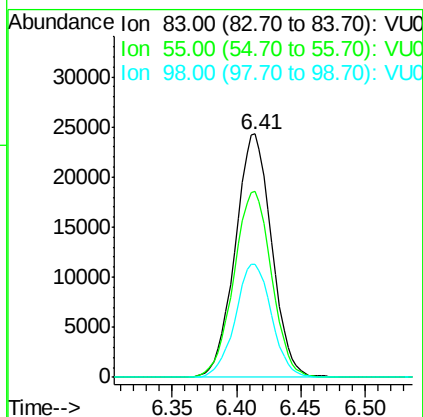
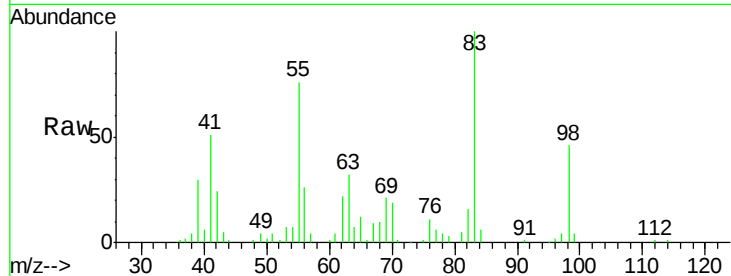




#39
Methvlcvclohexane
Concen: 19.983 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

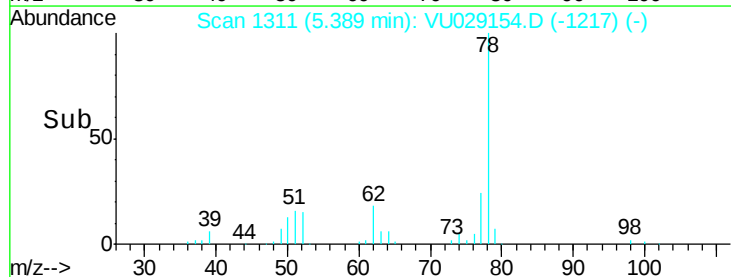
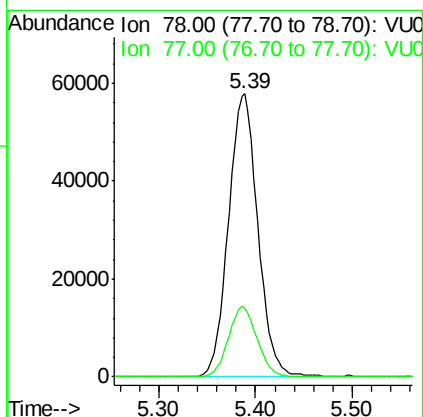
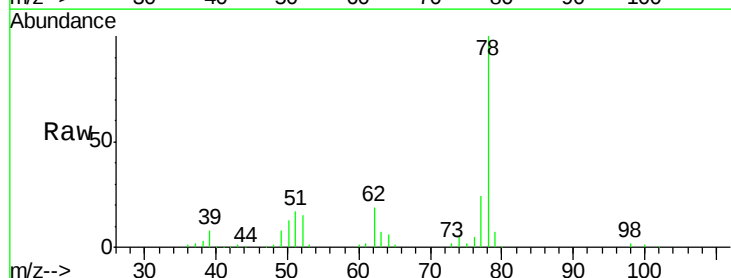
Instrument :
MSVOA_U
ClientSampleId :

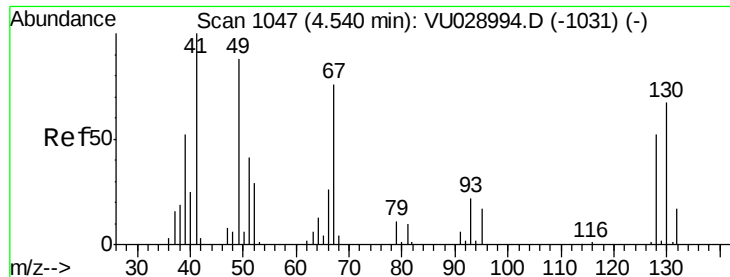
Tot Ion: 83 Resp: 47805
Ion Ratio Lower Upper
83 100
55 76.4 62.4 93.6
98 46.3 36.2 54.2



#40
Benzene
Concen: 20.105 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion: 78 Resp: 122037
Ion Ratio Lower Upper
78 100
77 24.4 18.9 28.3

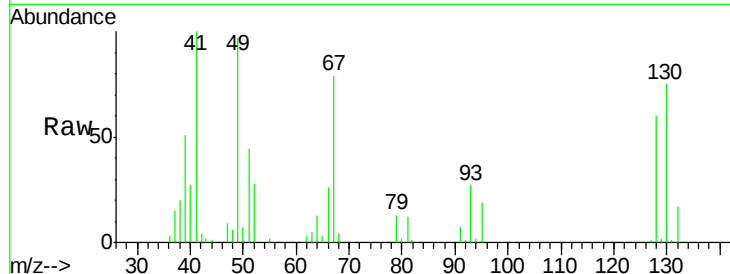




#41
Methacrylonitrile
Concen: 21.067 ug/l
RT: 4.54 min Scan# 1047
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	41	Resp:	24087
Ion	Ratio	Lower	Upper
41	100		
39	51.9	42.3	63.5
67	79.9	64.4	96.6
52	29.0	23.9	35.9



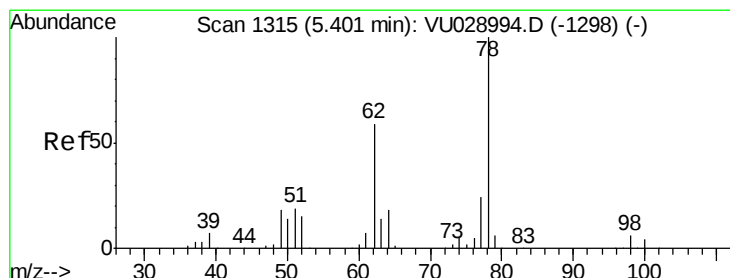
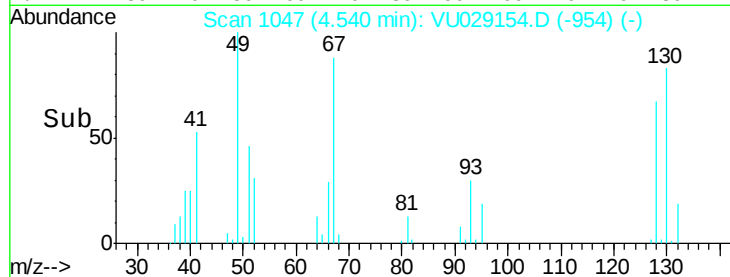
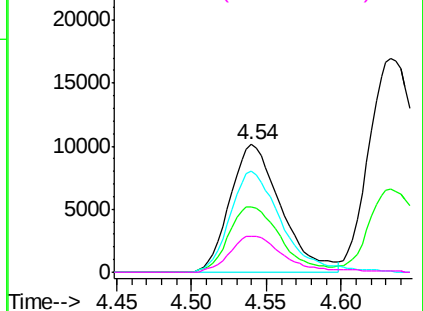
Abundance

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

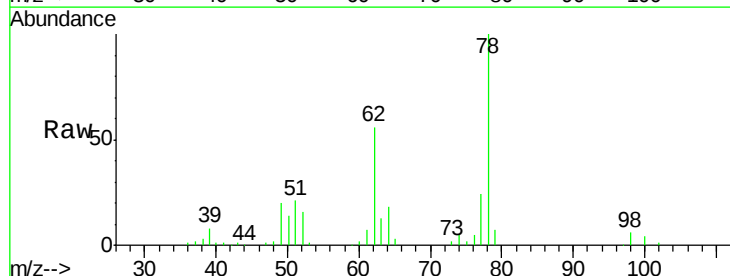
Ion 67.00 (66.70 to 67.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#42
1,2-Dichloroethane
Concen: 20.989 ug/l
RT: 5.40 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

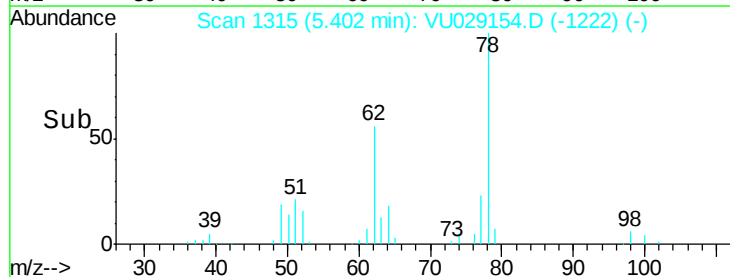
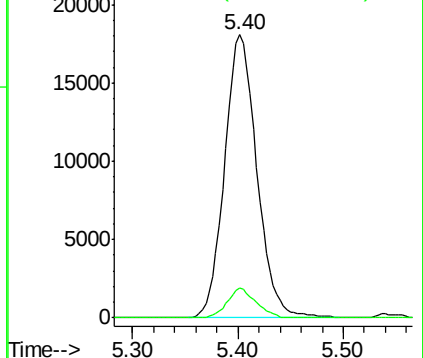
Tgt Ion:	62	Resp:	38283
Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	19.6

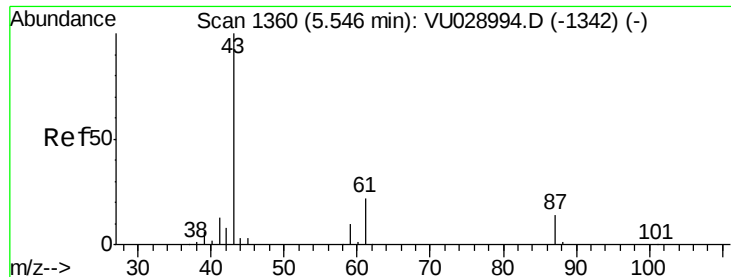


Abundance

Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#43

Isopropyl Acetate

Concen: 20.490 ug/l

RT: 5.55 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :

MSVOA_U

ClientSampleId :

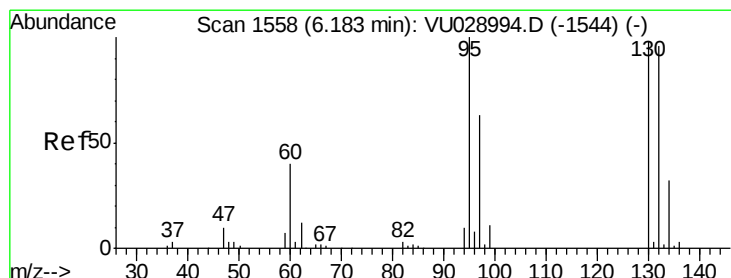
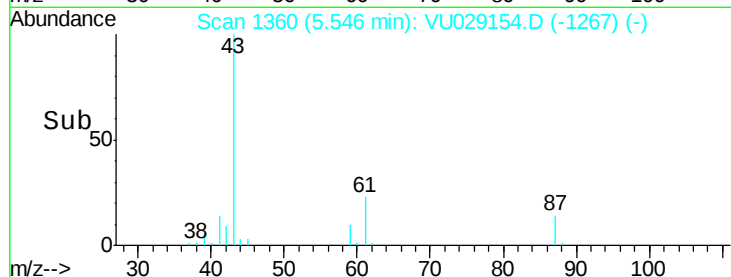
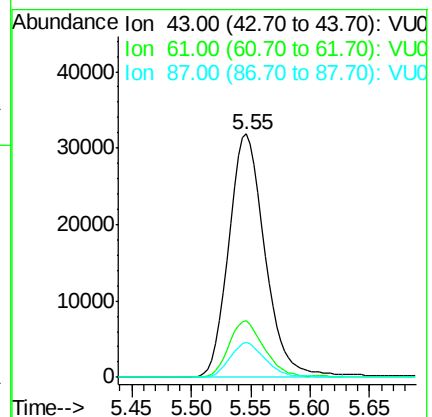
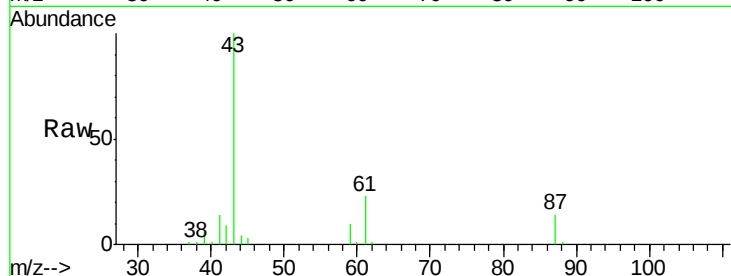
Tot Ion: 43 Resp: 67138

Ion Ratio Lower Upper

43 100

61 22.5 17.8 26.6

87 13.8 11.3 16.9



#44

Trichloroethene

Concen: 20.561 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VU029154.D

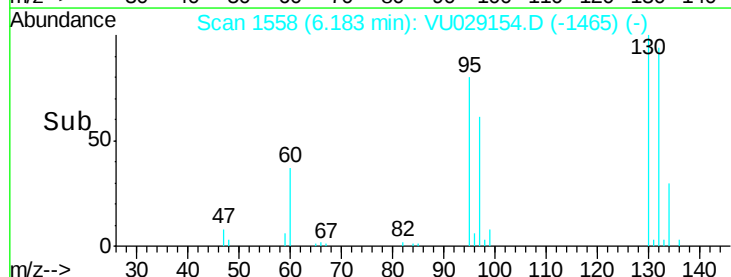
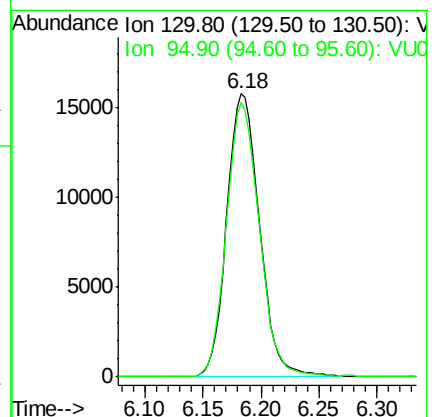
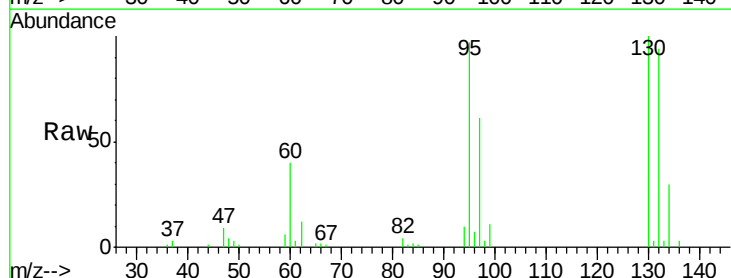
Acq: 14 Jan 2019 10:34

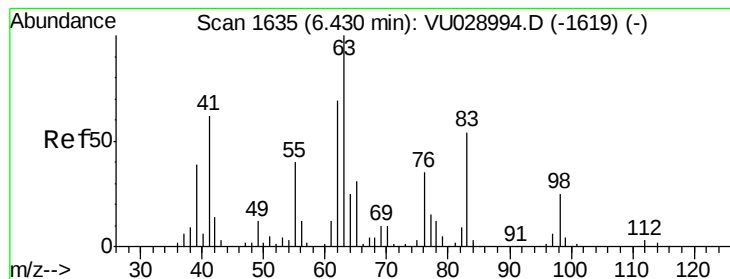
Tgt Ion: 130 Resp: 30923

Ion Ratio Lower Upper

130 100

95 97.1 0.0 205.0





#45

1,2-Dichloropropane

Concen: 20.552 ug/l

RT: 6.43 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :

MSVOA_U

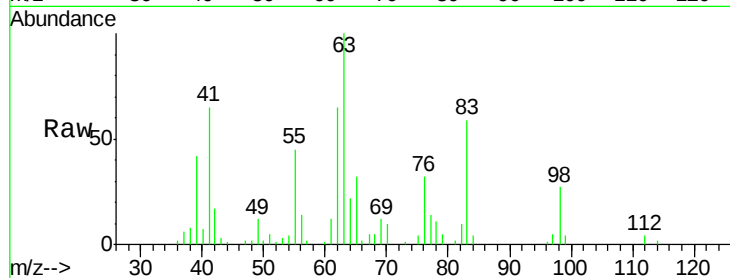
ClientSampled :

Tot Ion: 63 Resp: 32944

Ion Ratio Lower Upper

63 100

65 32.2 25.1 37.7



Abundance Ion 62.90 (62.60 to 63.60): VU028994.D (-1619) (-)

Ion 64.90 (64.60 to 65.60): VU029154.D (-1542) (-)

6.43

20000

15000

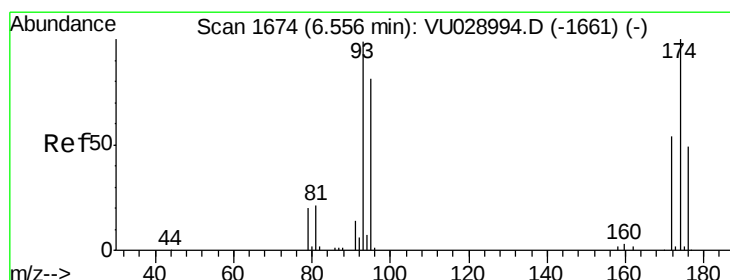
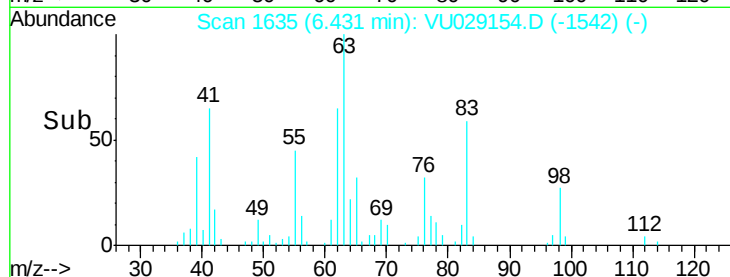
10000

5000

0

6.35 6.40 6.45 6.50

Time-->



#46

Dibromomethane

Concen: 20.489 ug/l

RT: 6.56 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

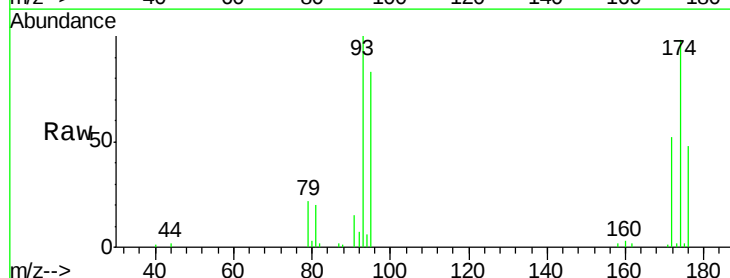
Tgt Ion: 93 Resp: 20995

Ion Ratio Lower Upper

93 100

95 84.7 67.2 100.8

174 105.7 82.6 123.8



Abundance Ion 92.80 (92.50 to 93.50): VU028994.D (-1661) (-)

Ion 94.80 (94.50 to 95.50): VU029154.D (-1581) (-)

Ion 173.70 (173.40 to 174.40): VU029154.D (-1581) (-)

6.56

15000

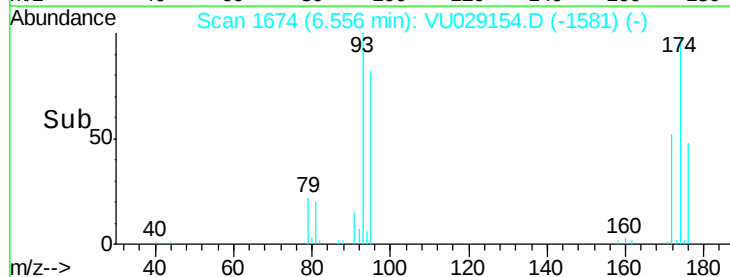
10000

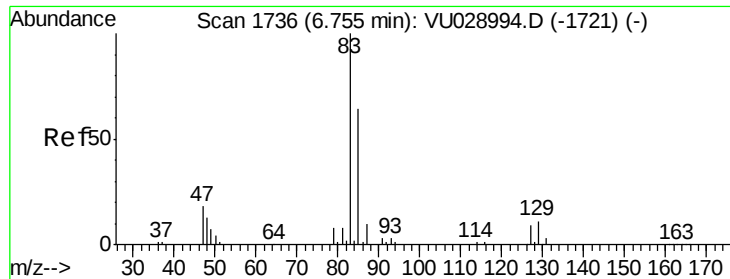
5000

0

6.50 6.55 6.60

Time-->





#47

Bromodichloromethane

Concen: 21.066 ug/l

RT: 6.76 min Scan# 1736

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :
MSVOA_U
ClientSampled :

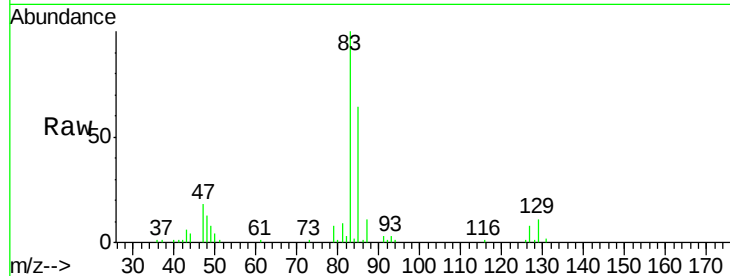
Tot Ion: 83 Resp: 39744

Ion Ratio Lower Upper

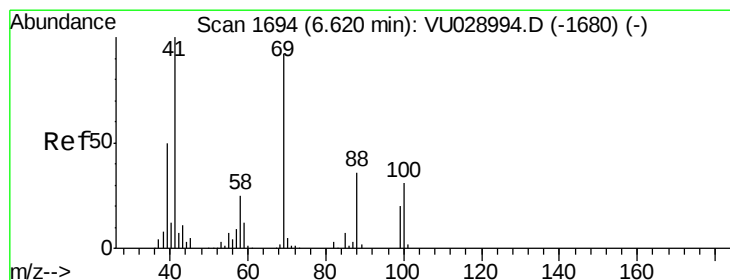
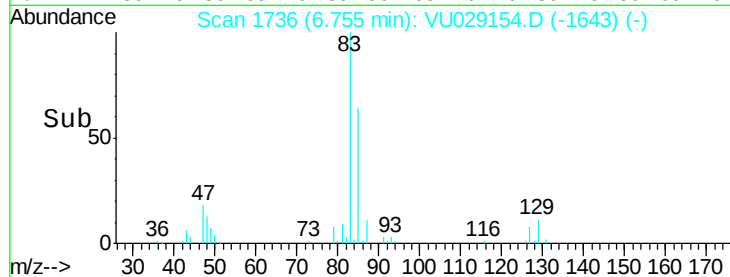
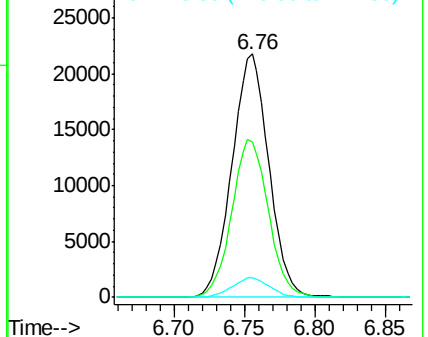
83 100

85 63.8 51.4 77.2

127 8.2 7.0 10.4



Abundance Ion 82.90 (82.60 to 83.60): VU0
Ion 84.90 (84.60 to 85.60): VU0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 21.207 ug/l

RT: 6.62 min Scan# 1694

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

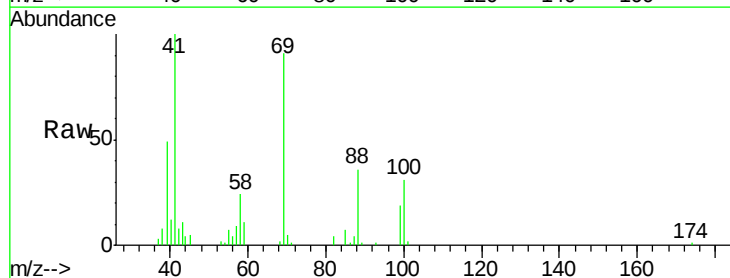
Tgt Ion: 41 Resp: 33835

Ion Ratio Lower Upper

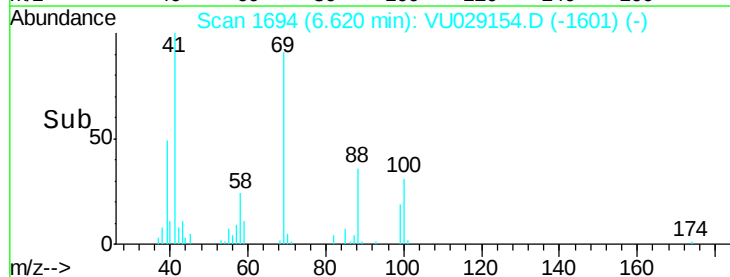
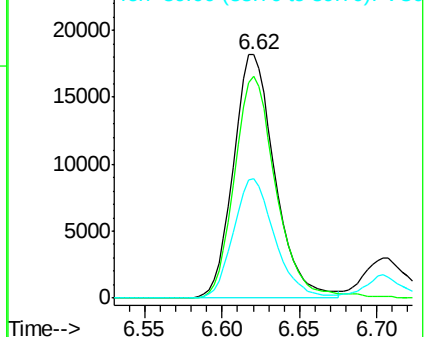
41 100

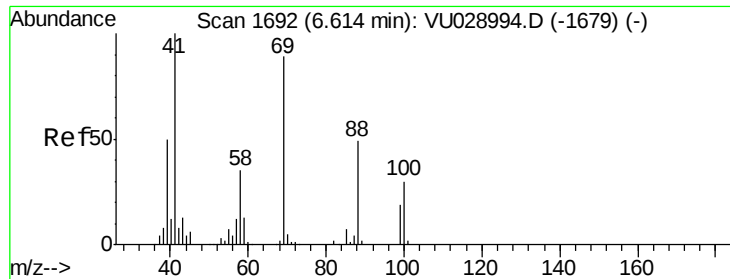
69 90.4 73.6 110.4

39 48.8 39.6 59.4



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

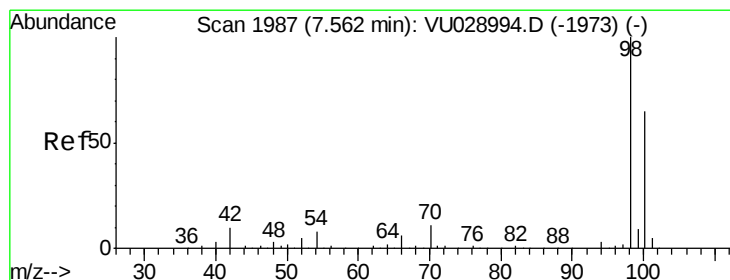
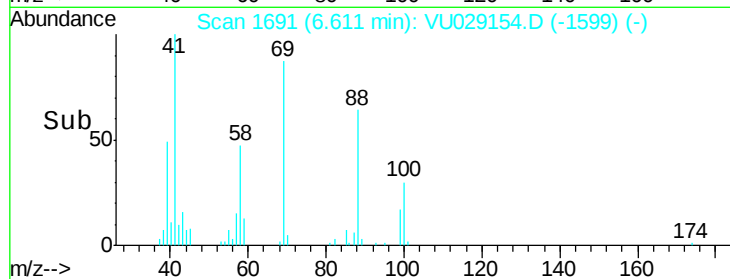
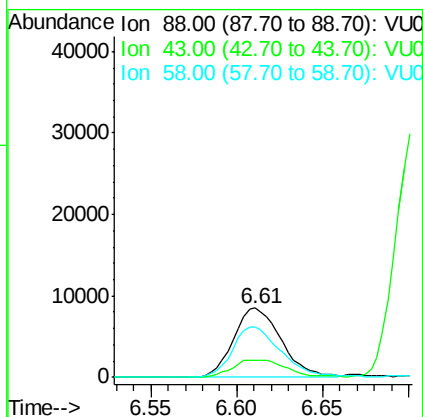
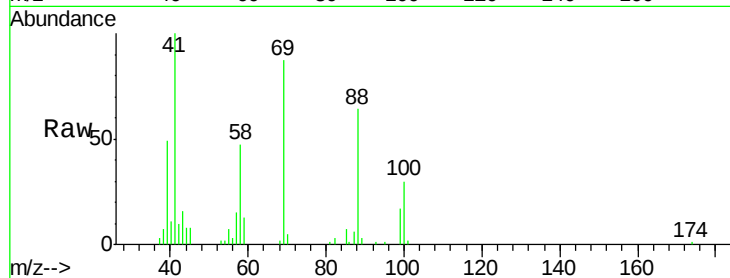




#49
1,4-Dioxane
Concen: 434.093 ug/l
RT: 6.61 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

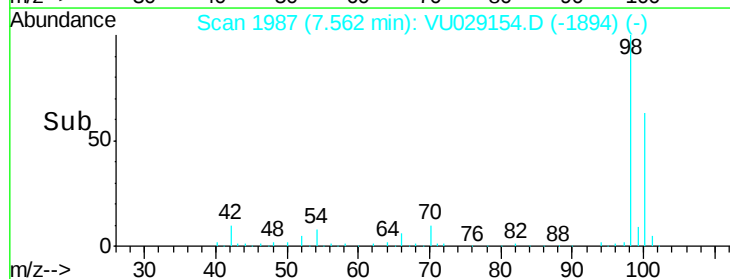
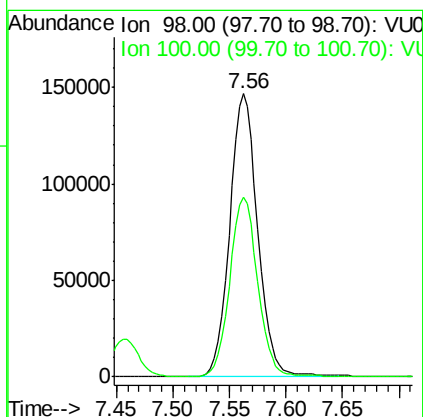
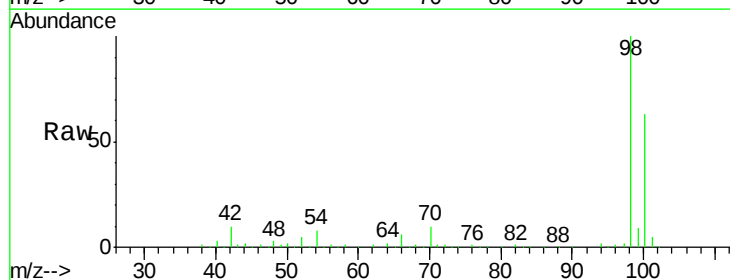
Instrument :
MSVOA_U
ClientSampleId :

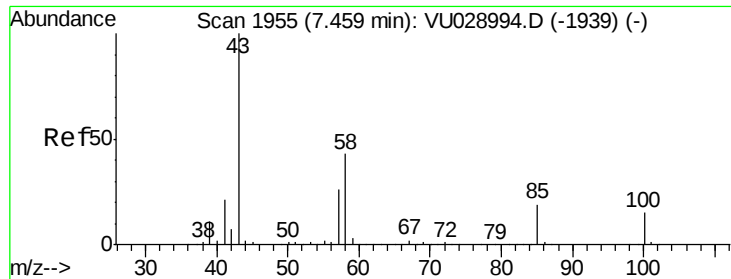
Tot Ion: 88 Resp: 16413
Ion Ratio Lower Upper
88 100
43 29.4 23.0 34.4
58 74.6 57.9 86.9



#50
Toluene-d8
Concen: 50.580 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion: 98 Resp: 251998
Ion Ratio Lower Upper
98 100
100 63.3 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 101.264 ug/l

RT: 7.46 min Scan# 1954

Delta R.T. -0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

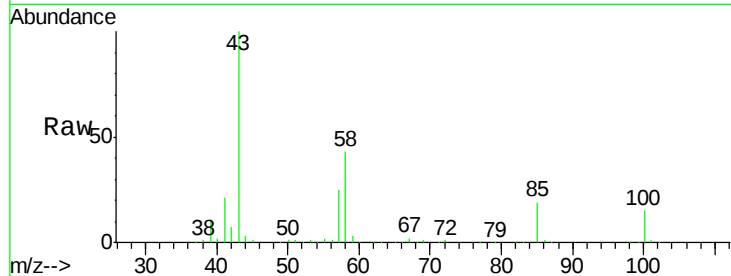
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 225809

Ion Ratio Lower Upper

43 100

58 42.2 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VU029154.D (-1954) (-)

Ion 58.00 (57.70 to 58.70): VU029154.D (-1954) (-)

7.46

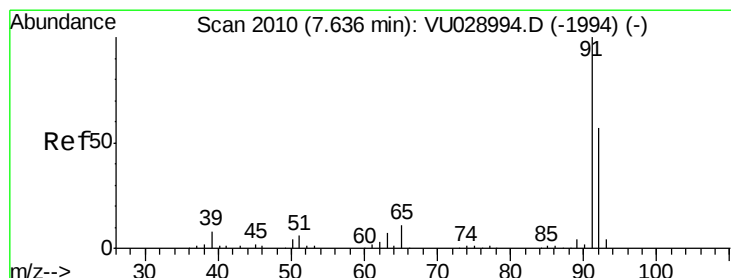
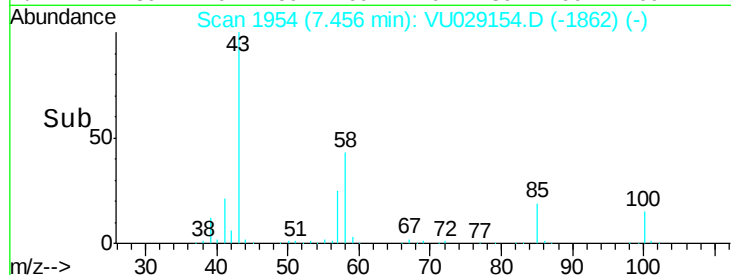
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 19.886 ug/l

RT: 7.63 min Scan# 2009

Delta R.T. -0.00 min

Lab File: VU029154.D

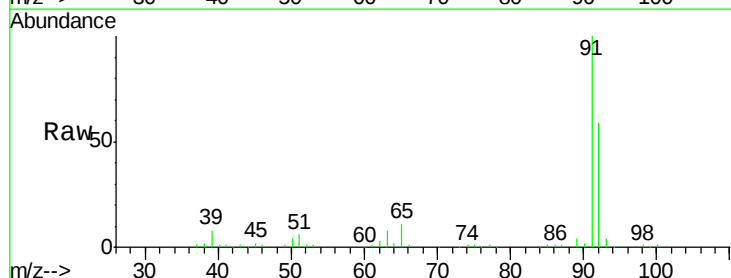
Acq: 14 Jan 2019 10:34

Tgt Ion: 92 Resp: 73482

Ion Ratio Lower Upper

92 100

91 178.2 139.8 209.8



Abundance Ion 92.00 (91.70 to 92.70): VU029154.D (-1917) (-)

Ion 91.00 (90.70 to 91.70): VU029154.D (-1917) (-)

7.63

80000

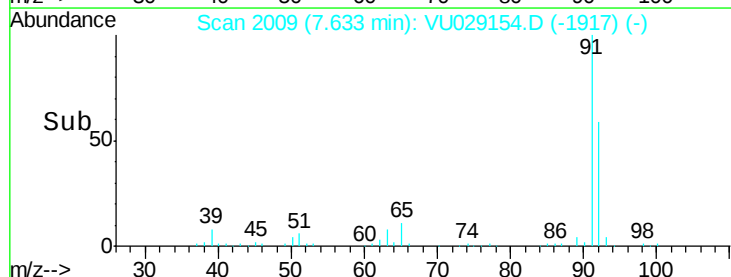
60000

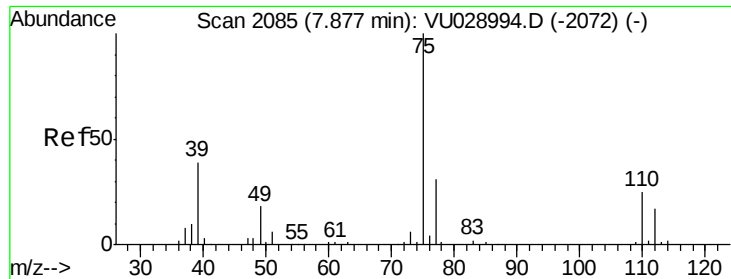
40000

20000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 20.194 ug/l

RT: 7.88 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

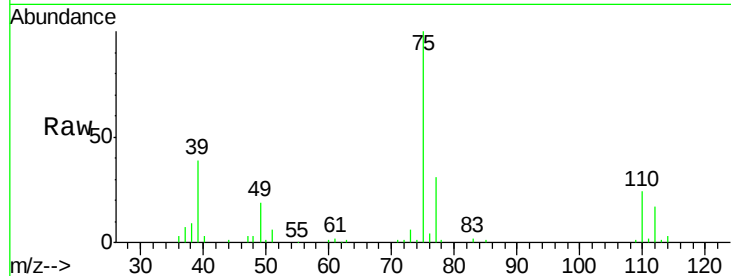
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 75 Resp: 45768

Ion Ratio Lower Upper

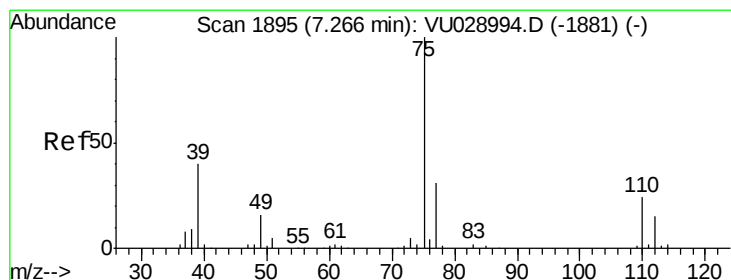
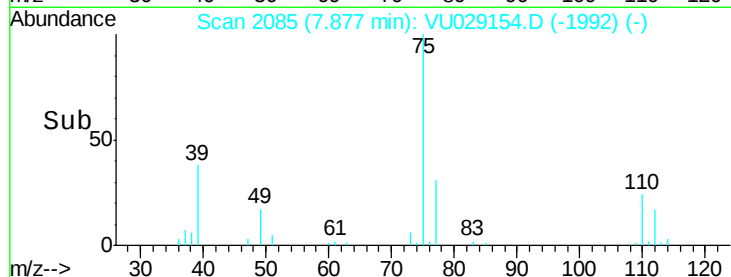
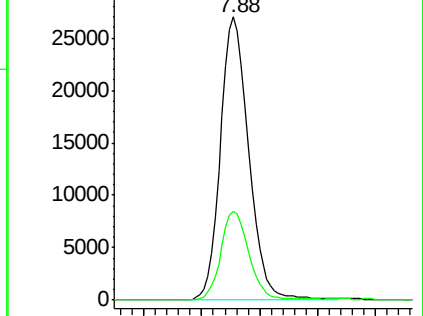
75 100

77 31.4 25.0 37.4



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#54

cis-1,3-Dichloropropene

Concen: 20.476 ug/l

RT: 7.27 min Scan# 1895

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

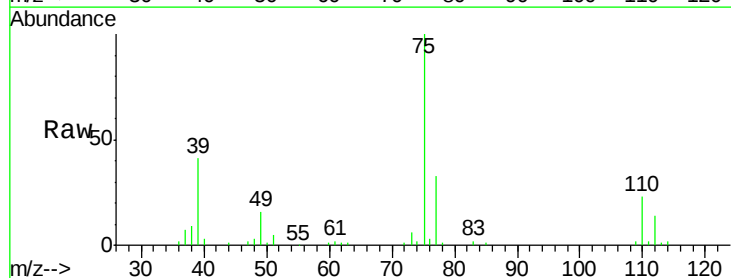
Tgt Ion: 75 Resp: 50144

Ion Ratio Lower Upper

75 100

77 32.6 25.0 37.6

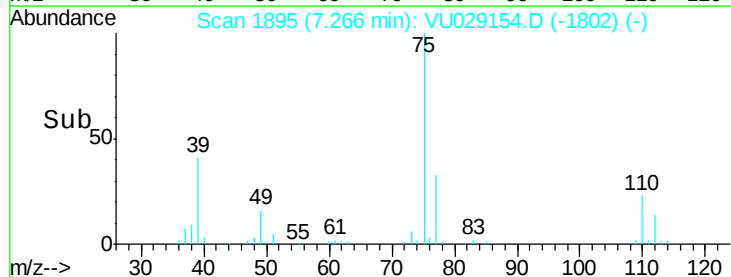
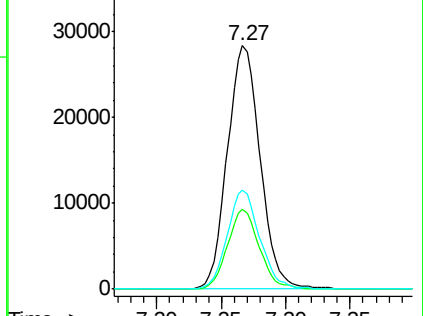
39 40.7 32.2 48.4

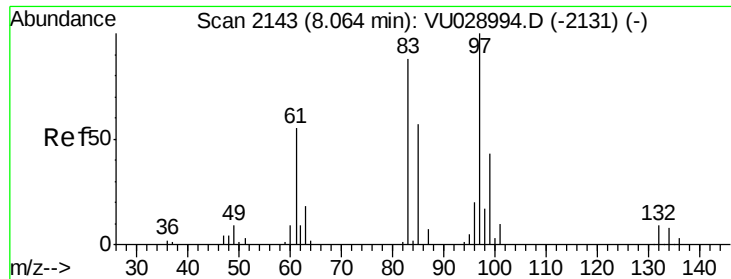


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0

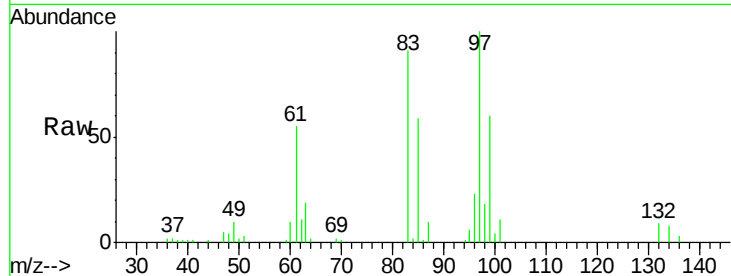




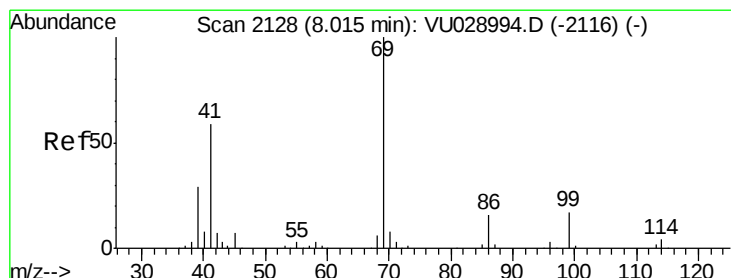
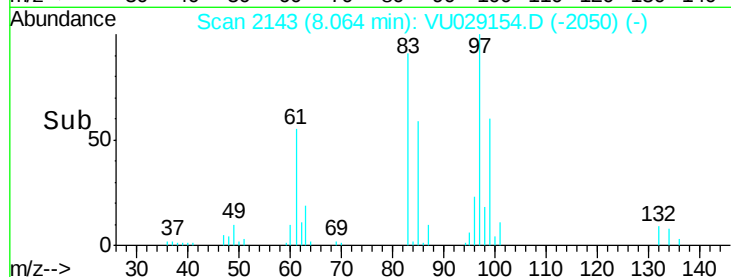
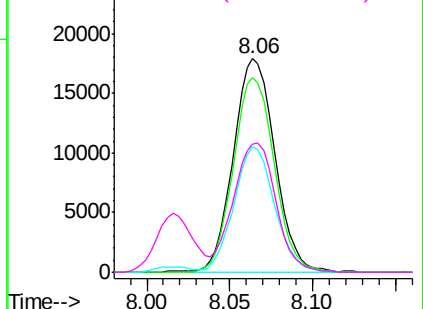
#55
1,1,2-Trichloroethane
Concen: 21.059 ug/l
RT: 8.06 min Scan# 2143
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 97 Resp: 31175
Ion Ratio Lower Upper
97 100
83 91.3 69.8 104.8
85 58.8 47.3 70.9
99 59.7 49.7 74.5

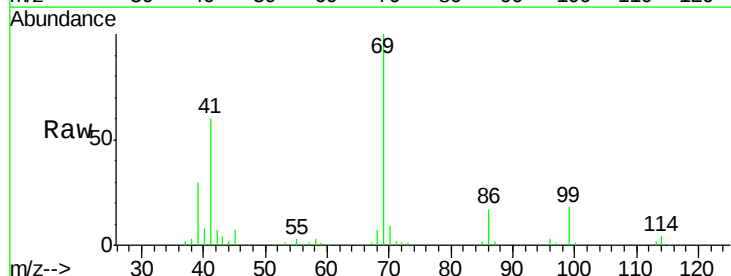


Abundance Ion 96.90 (96.60 to 97.60): VU0
Ion 82.90 (82.60 to 83.60): VU0
Ion 84.90 (84.60 to 85.60): VU0
Ion 98.90 (98.60 to 99.60): VU0

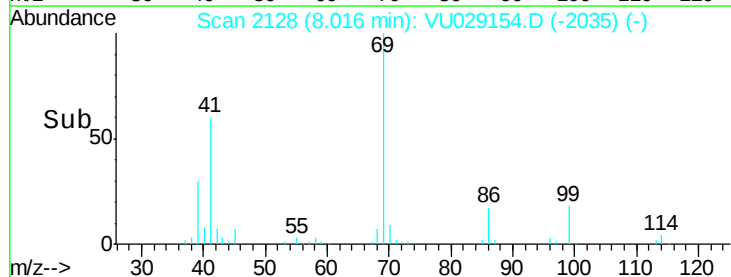
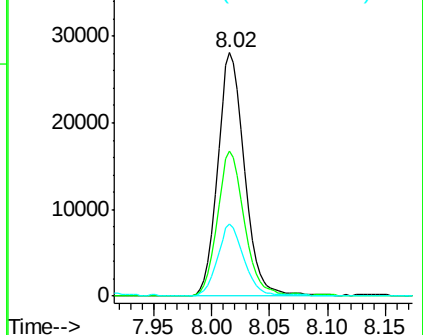


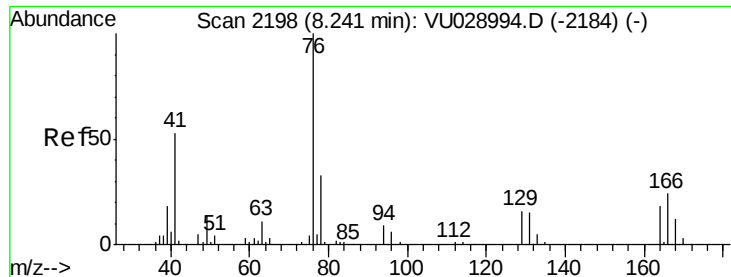
#56
Ethyl methacrylate
Concen: 19.985 ug/l
RT: 8.02 min Scan# 2128
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion: 69 Resp: 45579
Ion Ratio Lower Upper
69 100
41 59.7 47.5 71.3
39 29.1 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

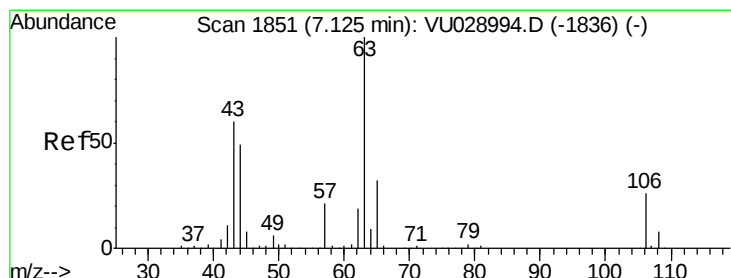
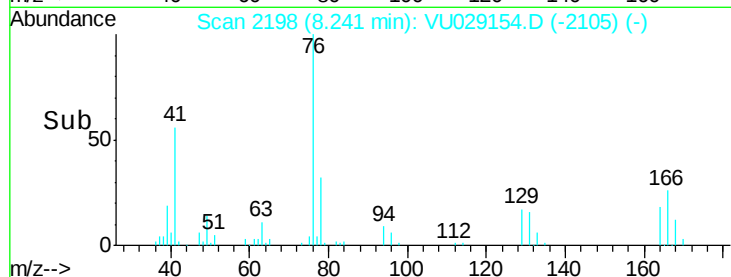
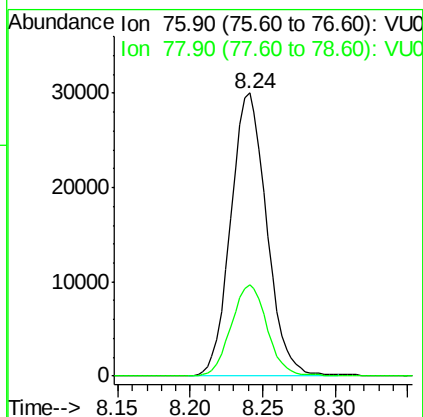
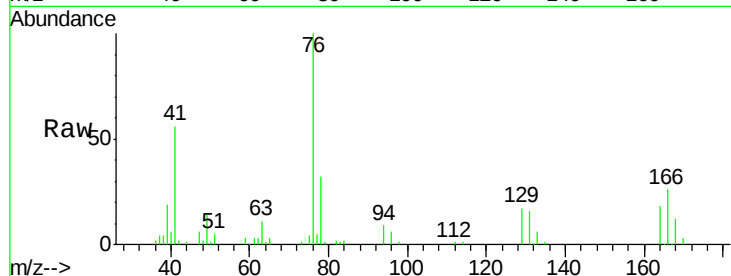




#57
 1,3-Dichloropropane
 Concen: 20.432 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

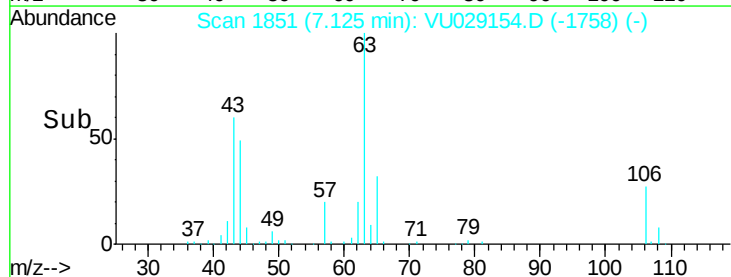
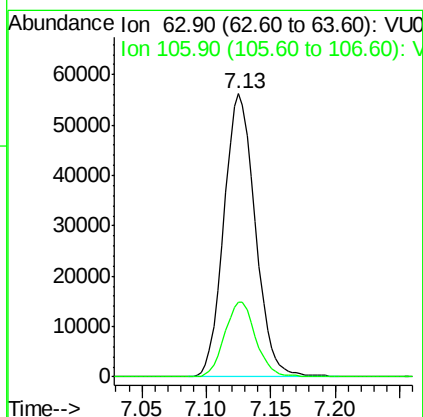
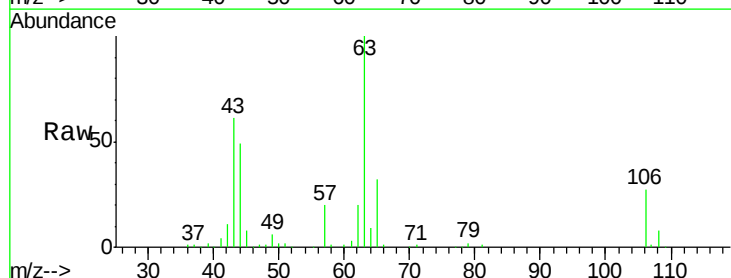
Instrument :
 MSVOA_U
 ClientSampleId :

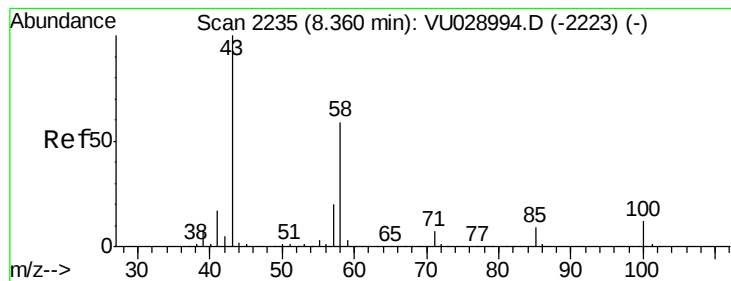
Tot Ion: 76 Resp: 51755
 Ion Ratio Lower Upper
 76 100
 78 32.1 26.0 39.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 94.746 ug/l
 RT: 7.13 min Scan# 1851
 Delta R.T. 0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

Tgt Ion: 63 Resp: 95029
 Ion Ratio Lower Upper
 63 100
 106 26.1 20.6 31.0





#59

2-Hexanone

Concen: 100.515 ug/l

RT: 8.36 min Scan# 2235

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :

MSVOA_U

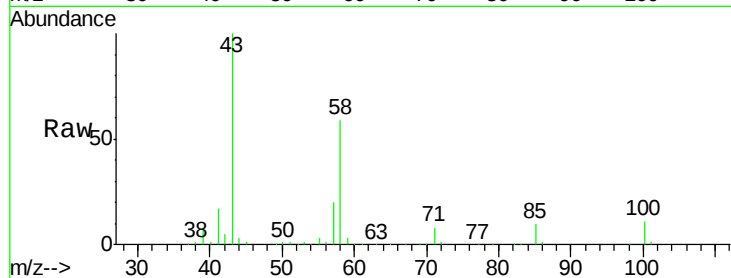
ClientSampled :

Tot Ion: 43 Resp: 175942

Ion Ratio Lower Upper

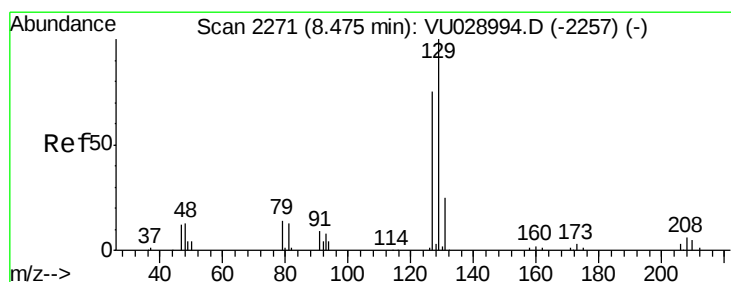
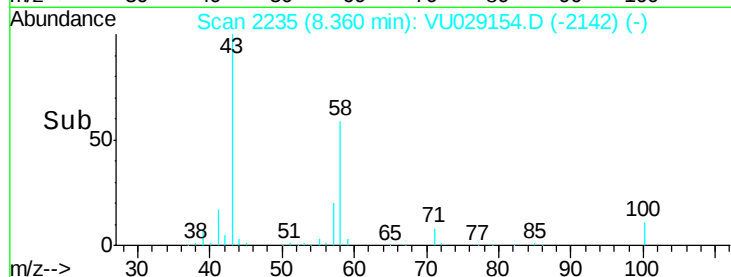
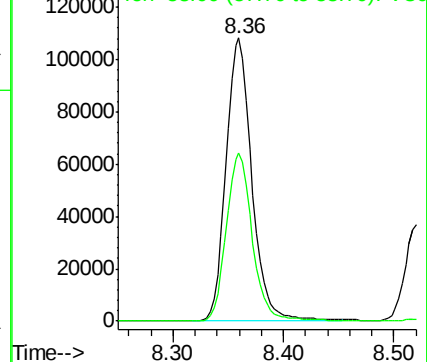
43 100

58 59.8 29.8 89.4



Abundance Ion 43.00 (42.70 to 43.70): VU029154.D (-2142) (-)

Ion 58.00 (57.70 to 58.70): VU029154.D (-2142) (-)



#60

Dibromochloromethane

Concen: 20.859 ug/l

RT: 8.47 min Scan# 2270

Delta R.T. -0.00 min

Lab File: VU029154.D

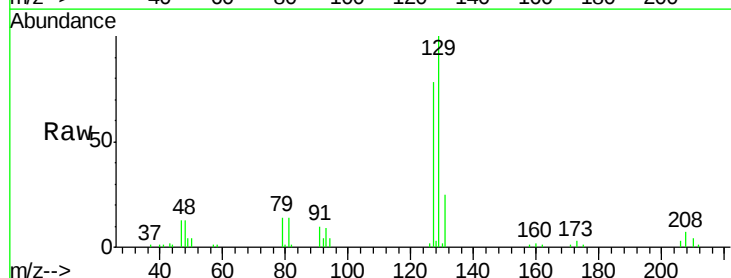
Acq: 14 Jan 2019 10:34

Tgt Ion: 129 Resp: 30592

Ion Ratio Lower Upper

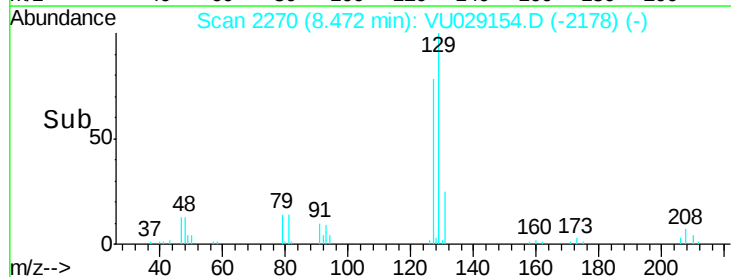
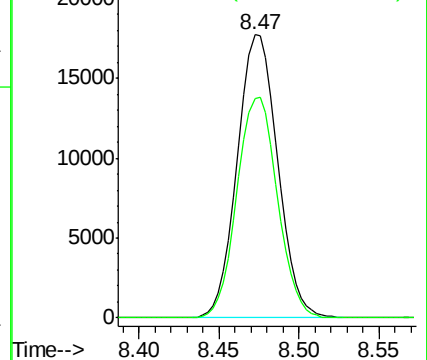
129 100

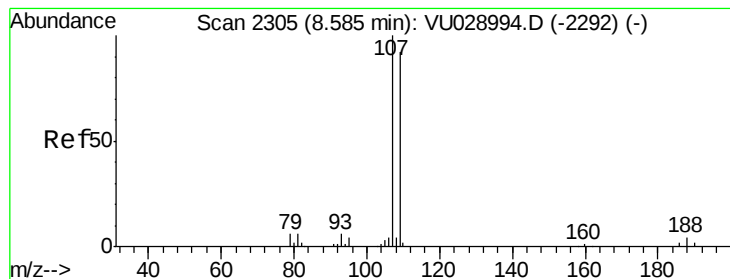
127 77.8 38.0 114.0



Abundance Ion 128.80 (128.50 to 129.50): VU029154.D (-2178) (-)

Ion 126.80 (126.50 to 127.50): VU029154.D (-2178) (-)





#61

1,2-Dibromoethane

Concen: 20.712 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :

MSVOA_U

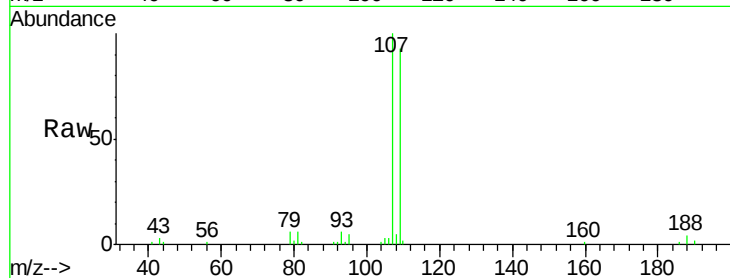
ClientSampleId :

Tot Ion:107 Resp: 33254

Ion Ratio Lower Upper

107 100

109 93.5 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

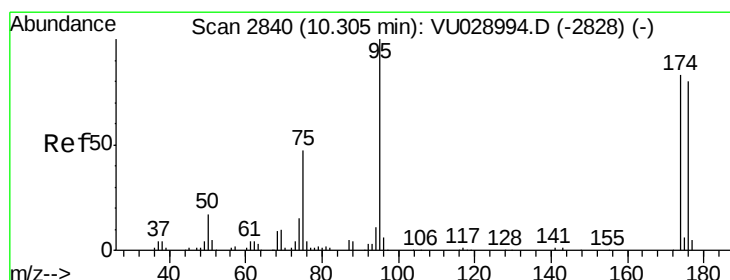
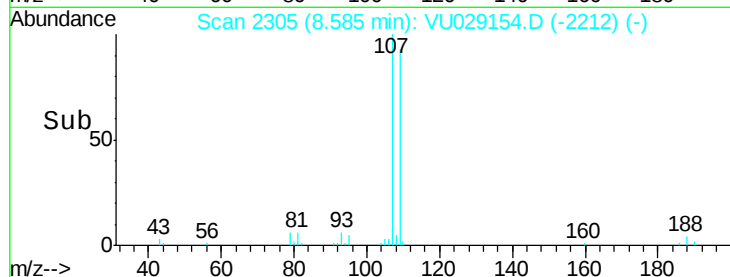
15000

10000

5000

0

Time--> 8.50 8.55 8.60 8.65



#62

4-Bromofluorobenzene

Concen: 49.283 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

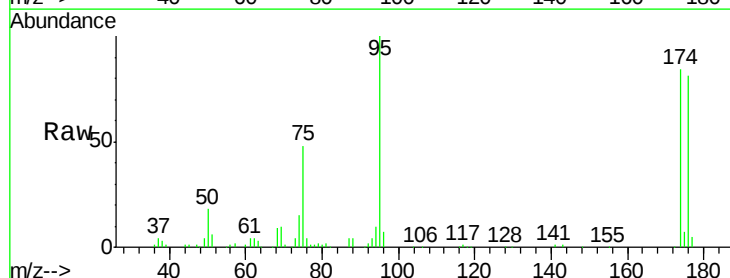
Tgt Ion: 95 Resp: 88241

Ion Ratio Lower Upper

95 100

174 84.7 0.0 170.6

176 82.0 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

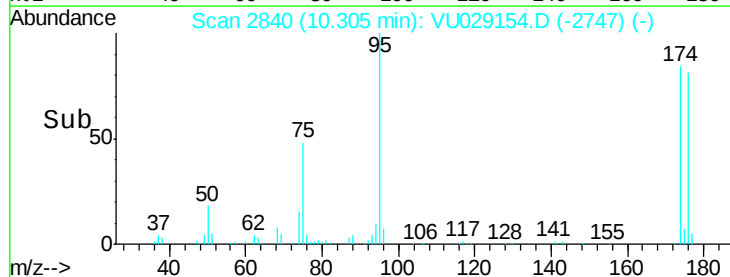
60000

40000

20000

0

Time--> 10.30 10.40

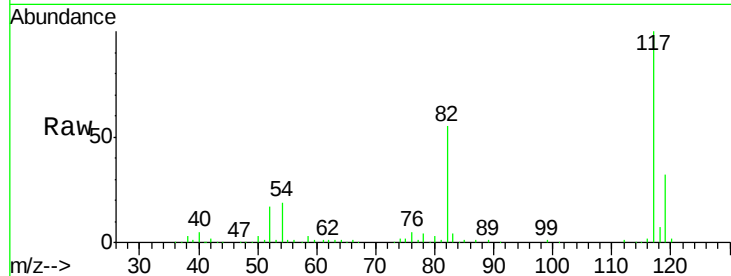




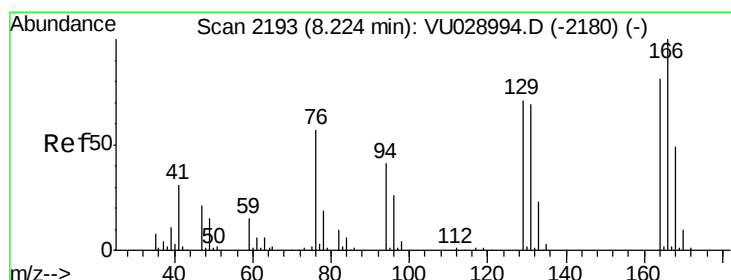
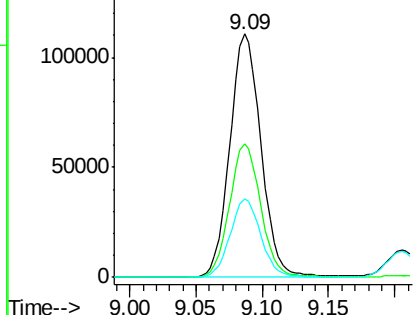
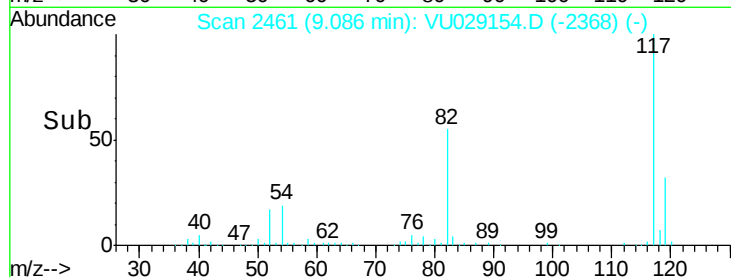
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 181367
Ion Ratio Lower Upper
117 100
82 54.7 43.9 65.9
119 32.3 26.0 39.0

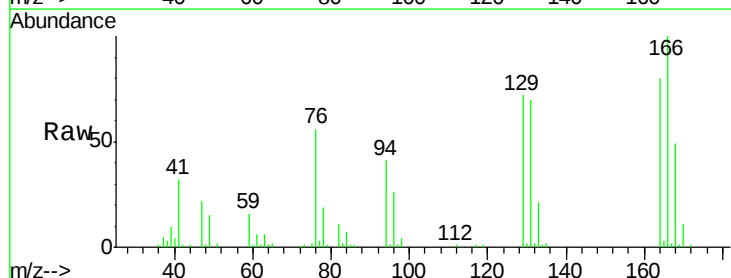


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

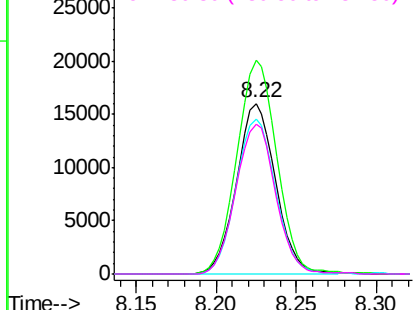
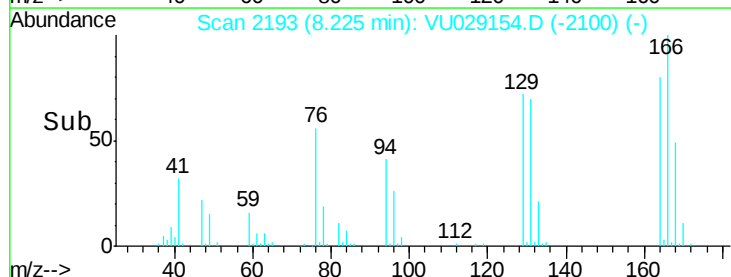


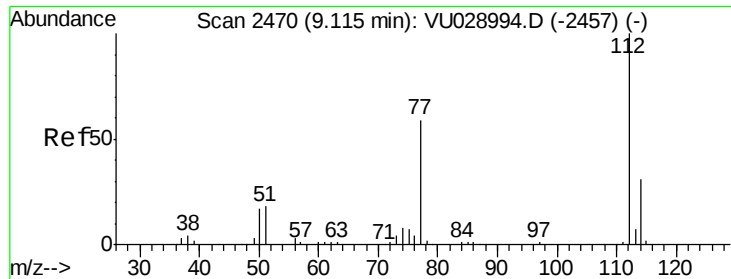
#64
Tetrachloroethene
Concen: 20.345 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion:164 Resp: 26581
Ion Ratio Lower Upper
164 100
166 125.3 99.4 149.0
129 90.6 70.5 105.7
131 87.9 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

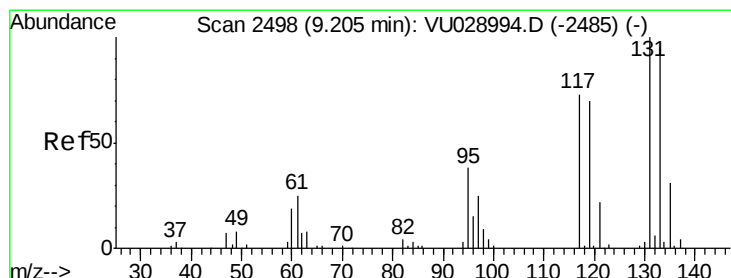
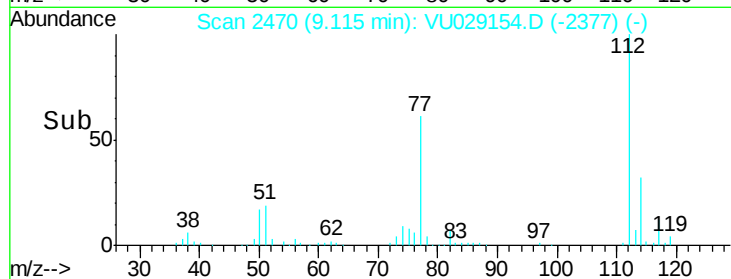
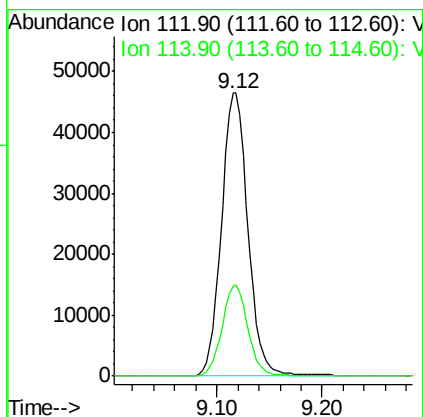
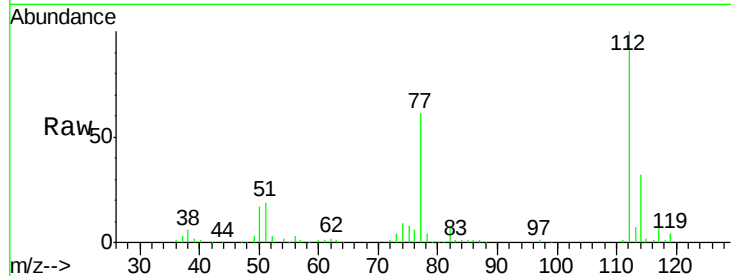




#65
Chlorobenzene
Concen: 19.848 ug/l
RT: 9.12 min Scan# 2470
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

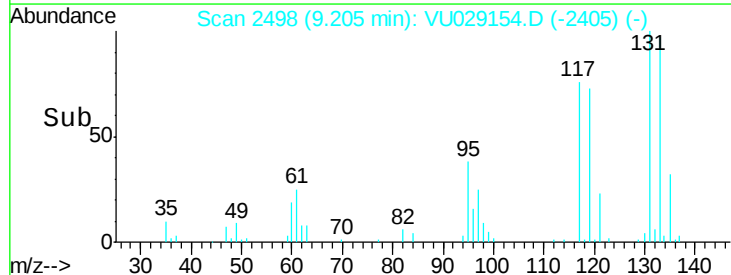
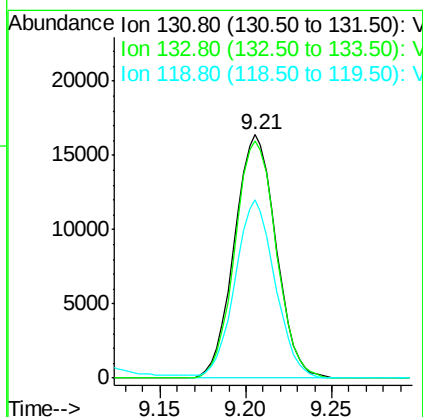
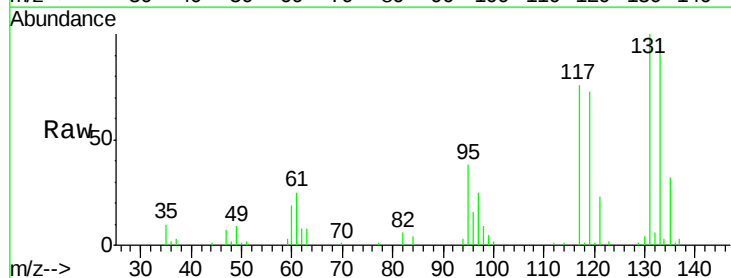
Instrument :
MSVOA_U
ClientSampleId :

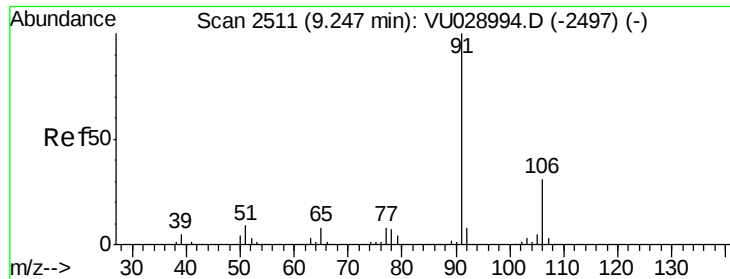
Tot Ion:112 Resp: 80689
Ion Ratio Lower Upper
112 100
114 31.9 25.0 37.6



#66
1,1,1,2-Tetrachloroethane
Concen: 20.959 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion:131 Resp: 27652
Ion Ratio Lower Upper
131 100
133 96.5 48.2 144.6
119 70.5 35.4 106.3

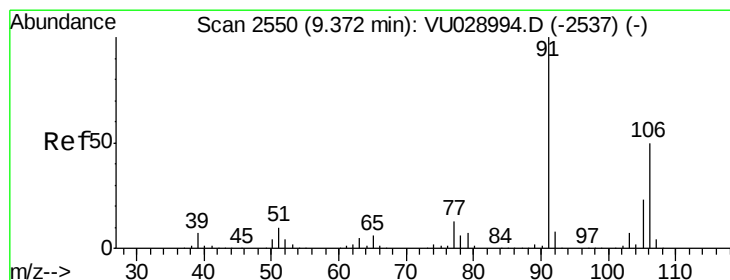
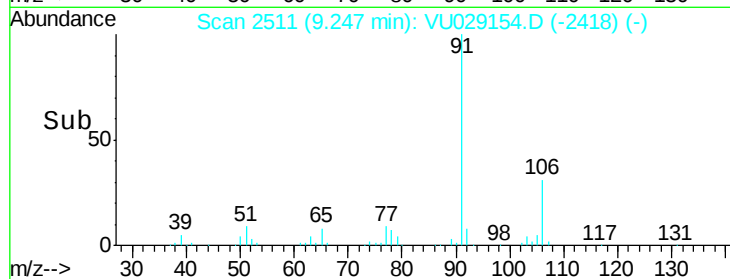
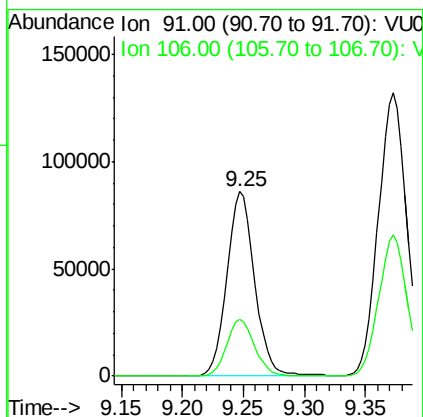
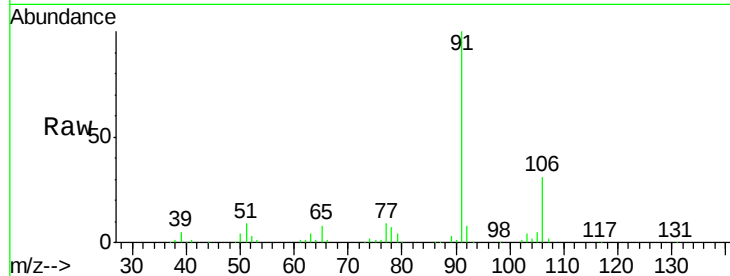




#67
Ethyl Benzene
Concen: 20.275 ug/l
RT: 9.25 min Scan# 2511
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

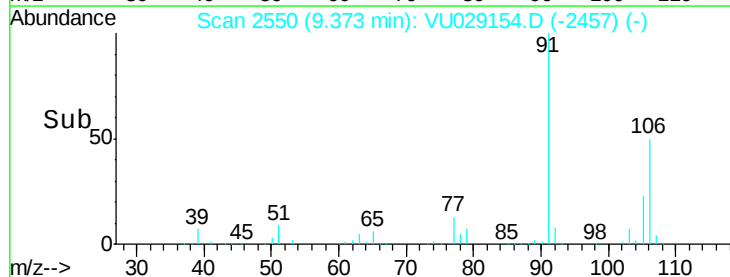
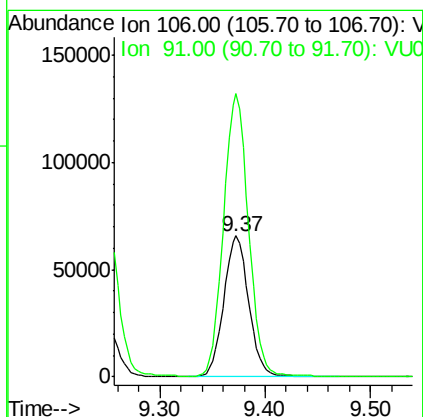
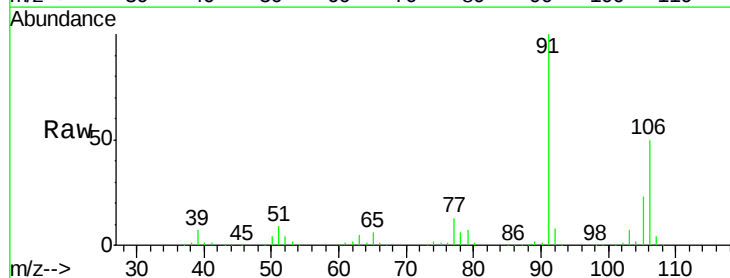
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 137613
Ion Ratio Lower Upper
91 100
106 30.8 25.0 37.4



#68
m/p-Xylenes
Concen: 40.870 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion: 106 Resp: 107783
Ion Ratio Lower Upper
106 100
91 199.0 161.7 242.5

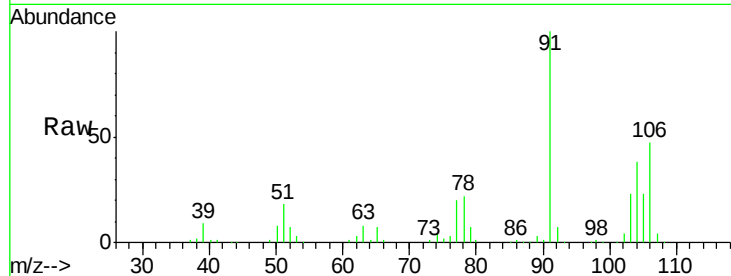




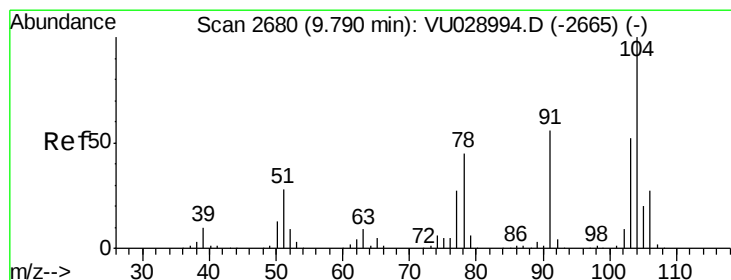
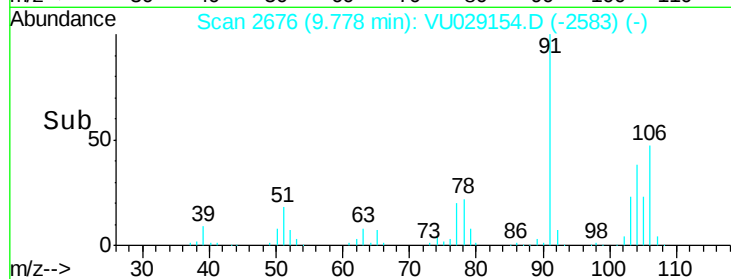
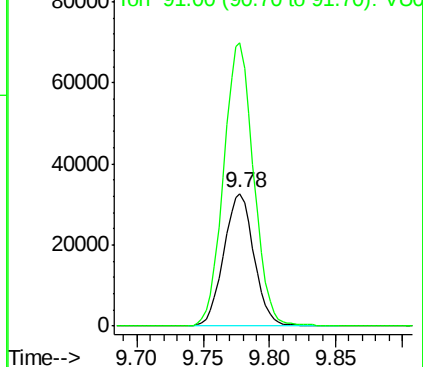
#69
o-Xylene
Concen: 20.399 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 51836
Ion Ratio Lower Upper
106 100
91 211.9 106.1 318.3

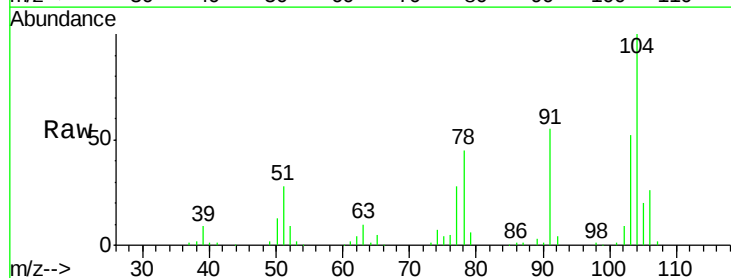


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

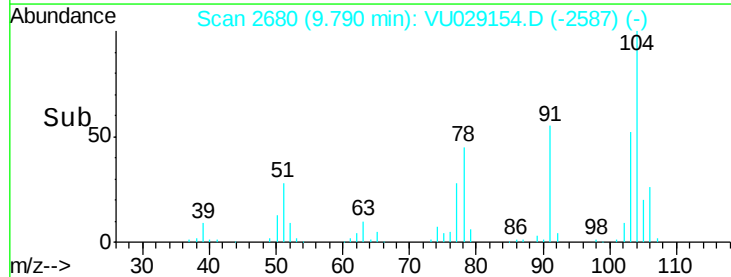
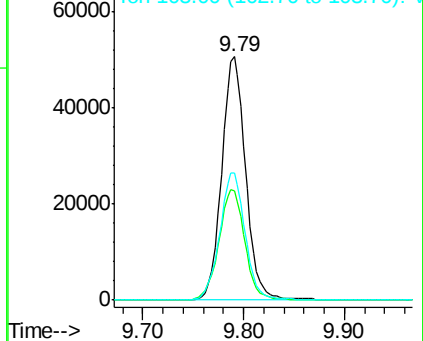


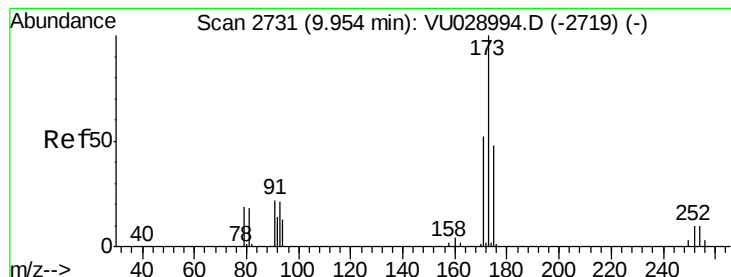
#70
Styrene
Concen: 20.136 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion:104 Resp: 83880
Ion Ratio Lower Upper
104 100
78 49.1 38.6 58.0
103 55.7 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: 20.548 ug/l

RT: 9.95 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :
MSVOA_U
ClientSampleId :

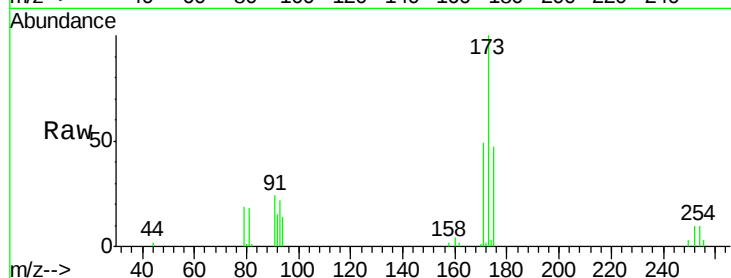
Tot Ion:173 Resp: 24138

Ion Ratio Lower Upper

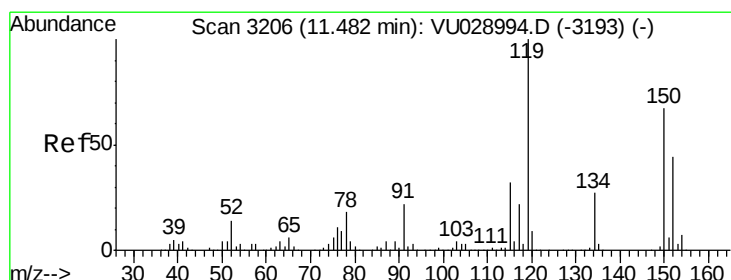
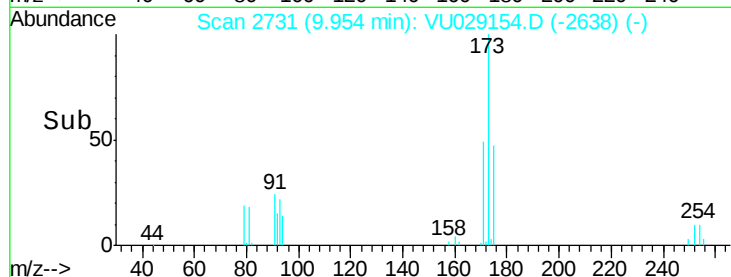
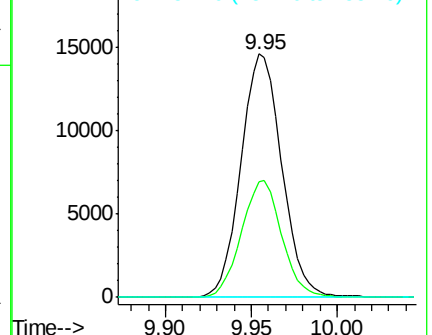
173 100

175 47.3 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: VU029154.D

Acq: 14 Jan 2019 10:34

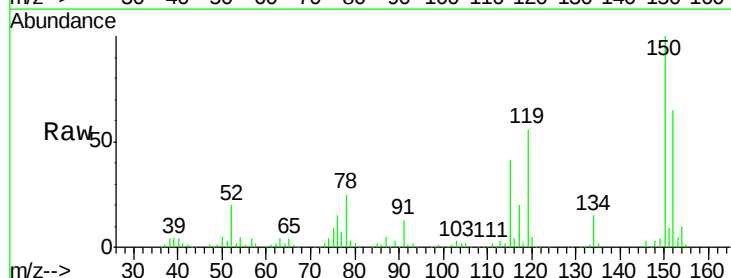
Tgt Ion:152 Resp: 89646

Ion Ratio Lower Upper

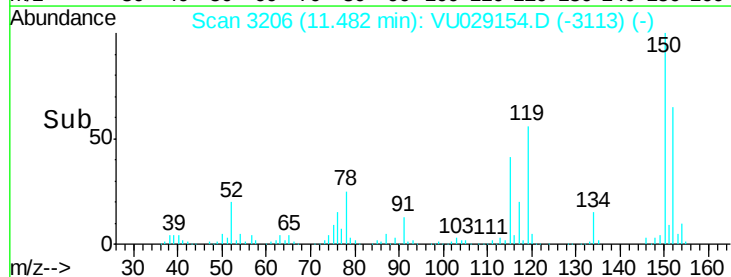
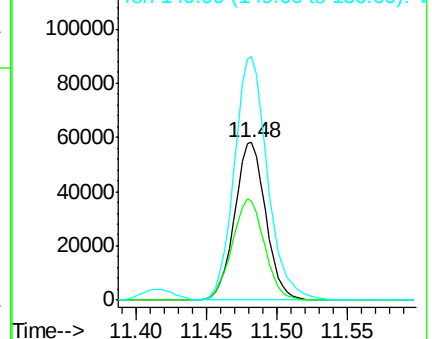
152 100

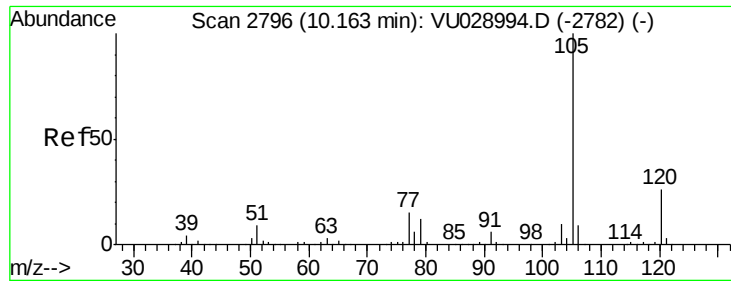
115 66.7 40.1 120.3

150 164.8 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: 20.588 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :

MSVOA_U

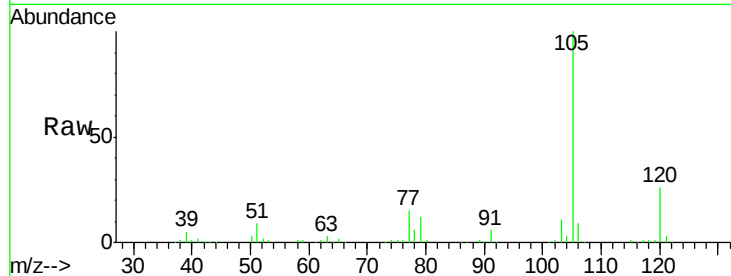
ClientSampleId :

Tot Ion:105 Resp: 136608

Ion Ratio Lower Upper

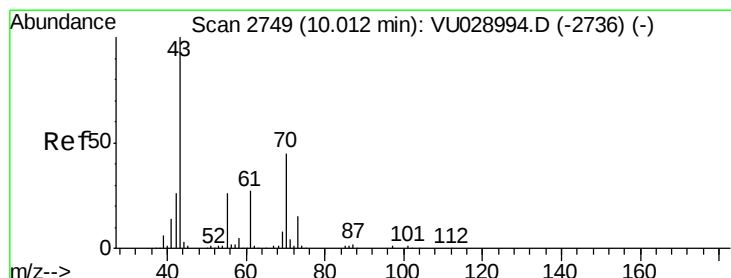
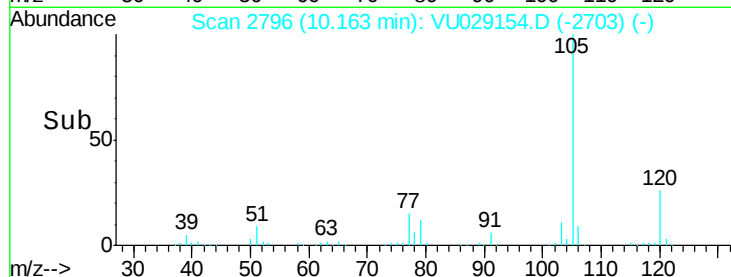
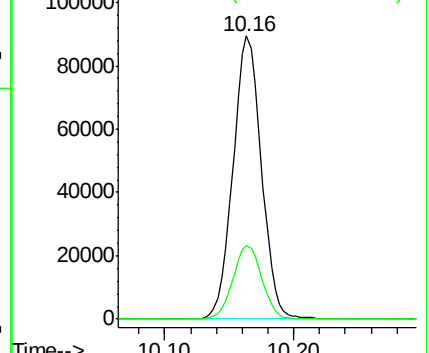
105 100

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: 19.742 ug/l

RT: 10.01 min Scan# 2748

Delta R.T. -0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Tgt Ion: 43 Resp: 56448

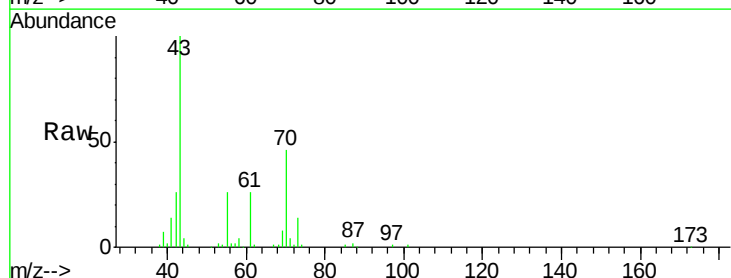
Ion Ratio Lower Upper

43 100

70 46.3 36.3 54.5

55 26.0 20.5 30.7

61 25.8 21.8 32.8

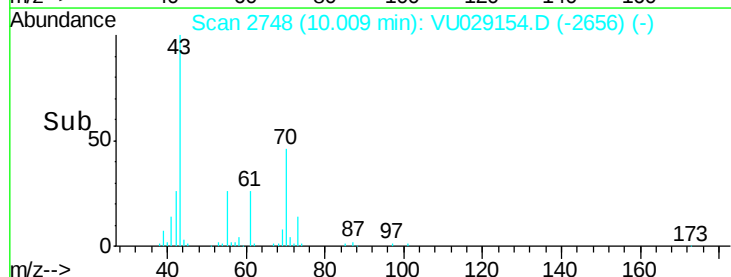
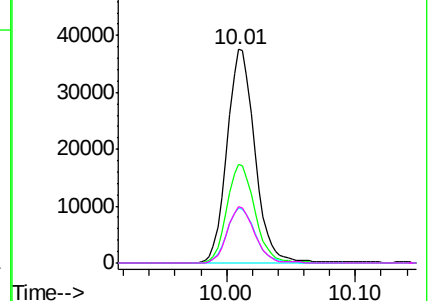


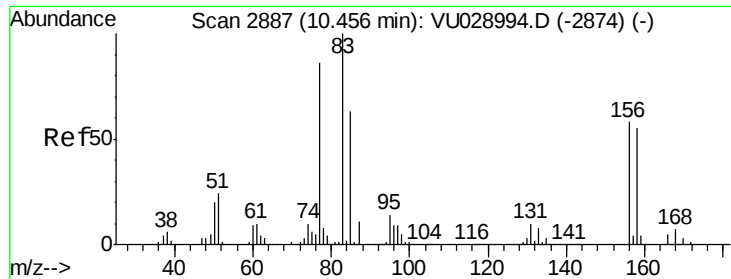
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 19.986 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :

MSVOA_U

ClientSampled :

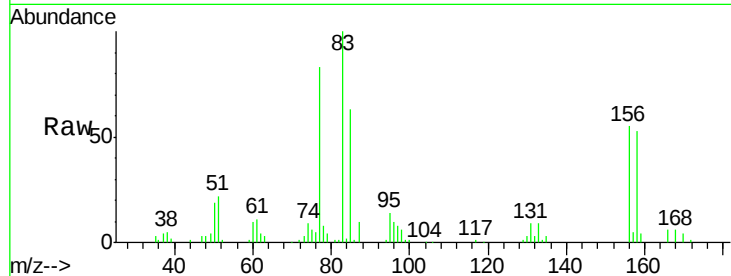
Tot Ion: 83 Resp: 53150

Ion Ratio Lower Upper

83 100

131 9.1 4.7 14.1

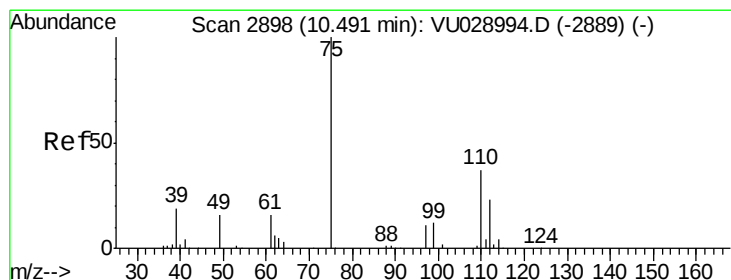
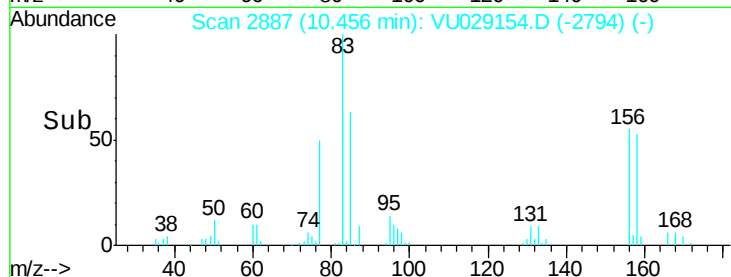
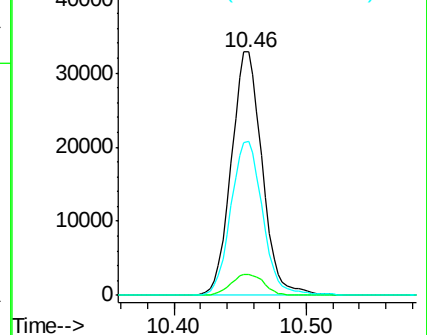
85 65.5 32.0 96.2



Abundance Ion 82.90 (82.60 to 83.60): VU028994.D (-2874) (-)

Ion 130.80 (130.50 to 131.50): VU028994.D (-2874) (-)

Ion 84.90 (84.60 to 85.60): VU028994.D (-2874) (-)



#76

1,2,3-Trichloropropane

Concen: 27.321 ug/l

RT: 10.49 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VU029154.D

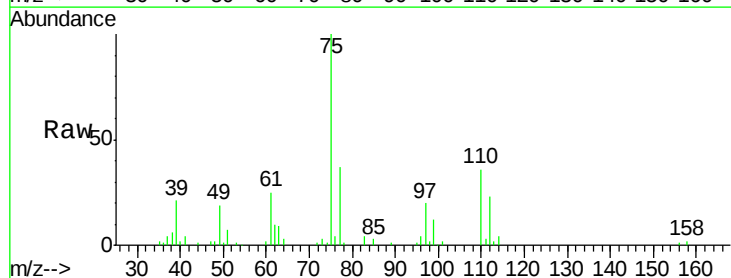
Acq: 14 Jan 2019 10:34

Tgt Ion: 75 Resp: 60009

Ion Ratio Lower Upper

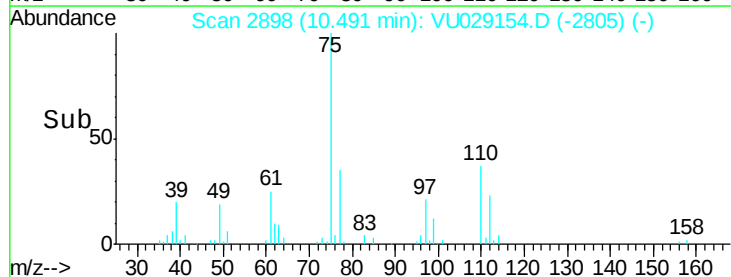
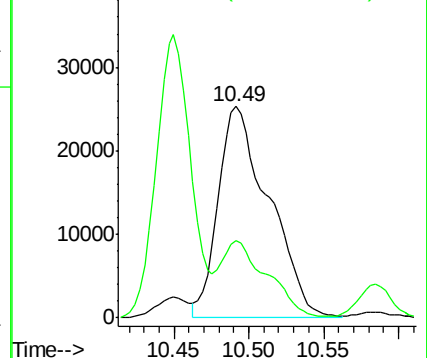
75 100

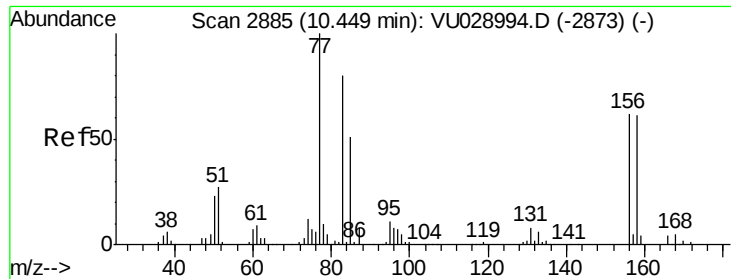
77 33.3 20.9 62.8



Abundance Ion 74.90 (74.60 to 75.60): VU028994.D (-2889) (-)

Ion 77.00 (76.70 to 77.70): VU028994.D (-2889) (-)





#77

Bromobenzene

Concen: 19.826 ug/l

RT: 10.45 min Scan# 2885

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :

MSVOA_U

ClientSampleId :

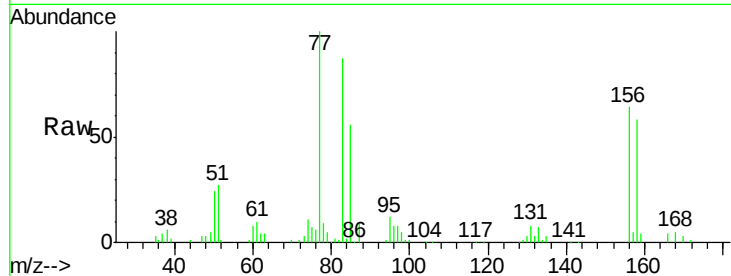
Tot Ion:156 Resp: 34283

Ion Ratio Lower Upper

156 100

77 159.5 79.0 237.2

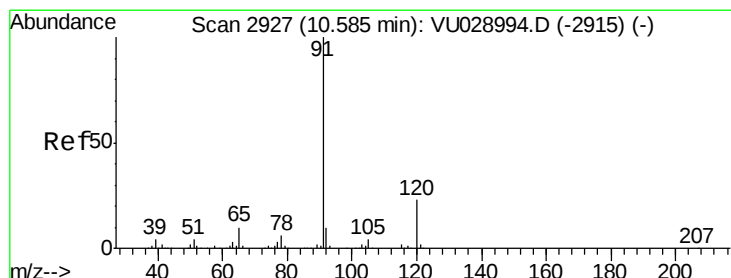
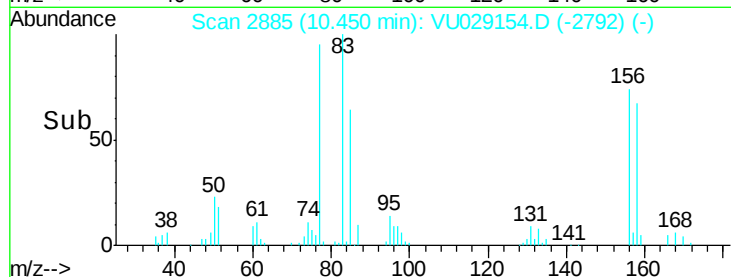
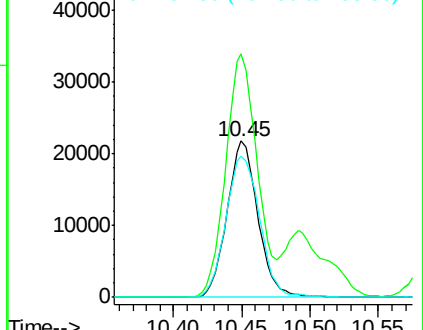
158 99.0 48.9 146.6



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: 20.837 ug/l

RT: 10.58 min Scan# 2927

Delta R.T. 0.00 min

Lab File: VU029154.D

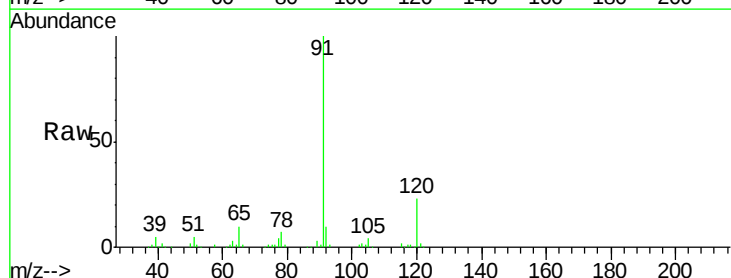
Acq: 14 Jan 2019 10:34

Tgt Ion: 91 Resp: 162940

Ion Ratio Lower Upper

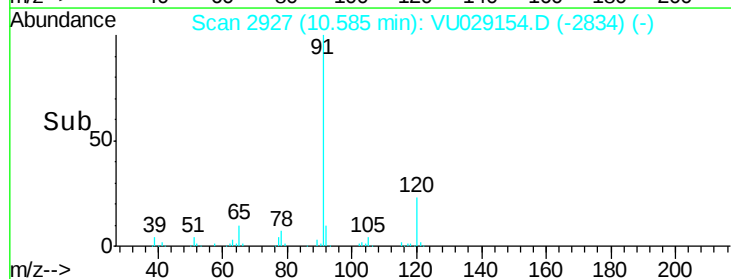
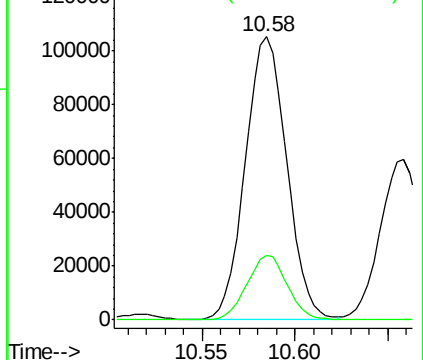
91 100

120 22.3 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: 19.999 ug/l

RT: 10.66 min Scan# 2950

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :

MSVOA_U

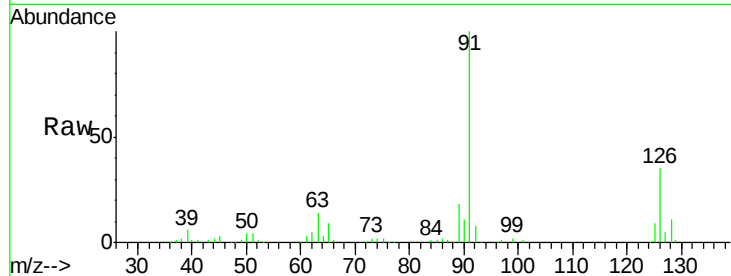
ClientSampled :

Tot Ion: 91 Resp: 94867

Ion Ratio Lower Upper

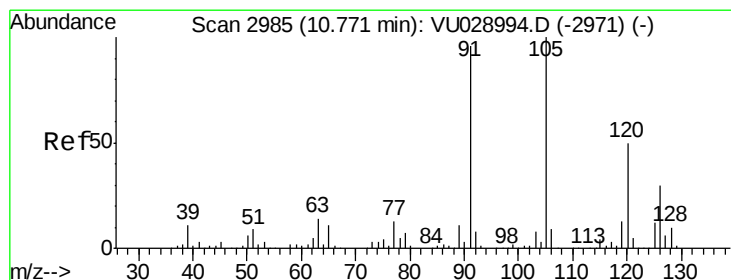
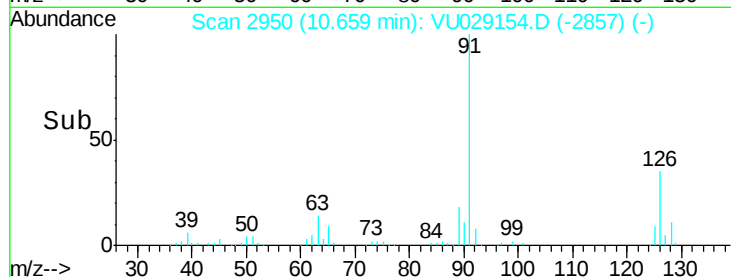
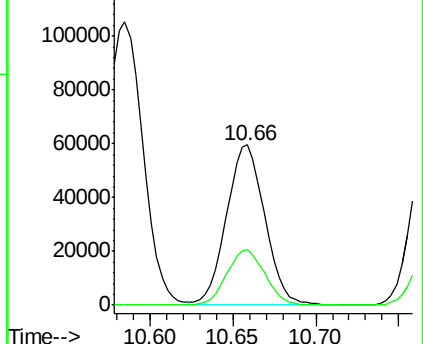
91 100

126 34.7 16.8 50.4



Abundance Ion 91.00 (90.70 to 91.70): VU028994.D (-2939) (-)

Ion 125.90 (125.60 to 126.60): VU028994.D (-2939) (-)



#80

1,3,5-Trimethylbenzene

Concen: 20.382 ug/l

RT: 10.77 min Scan# 2984

Delta R.T. -0.00 min

Lab File: VU029154.D

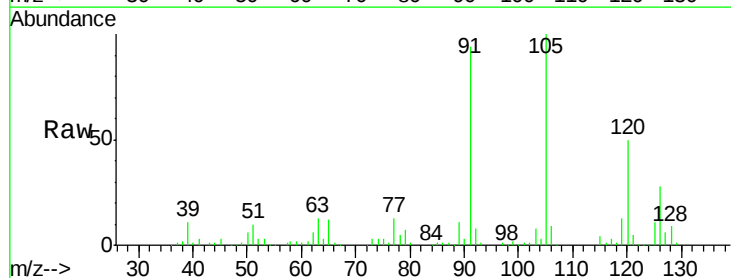
Acq: 14 Jan 2019 10:34

Tgt Ion: 105 Resp: 112937

Ion Ratio Lower Upper

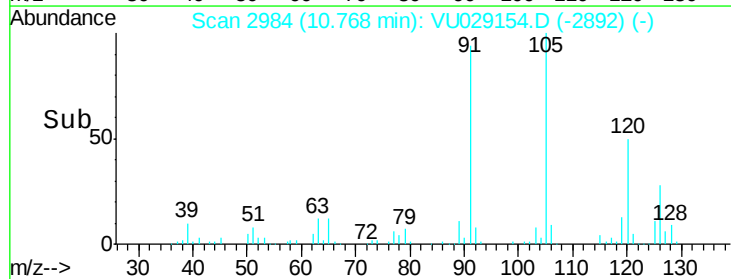
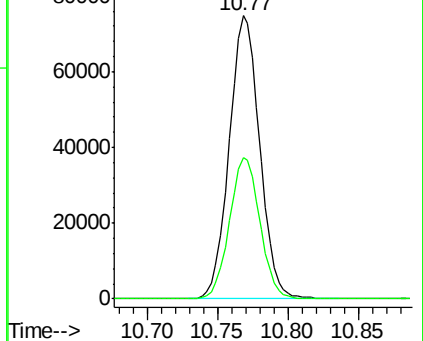
105 100

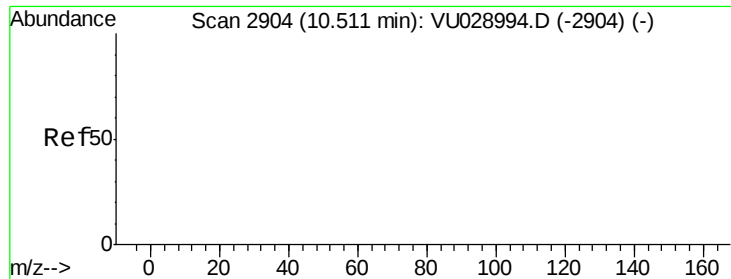
120 49.9 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VU028994.D (-2971) (-)

Ion 120.00 (119.70 to 120.70): VU028994.D (-2971) (-)

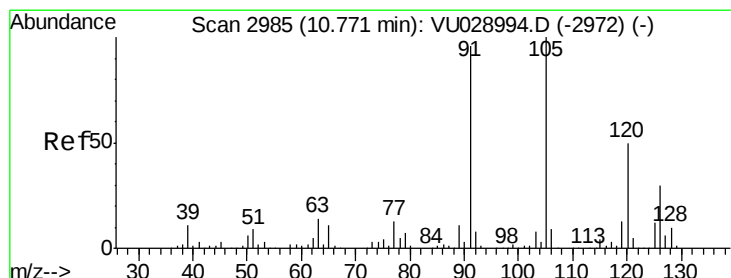
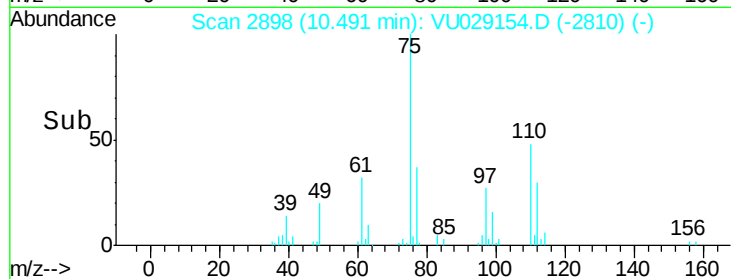
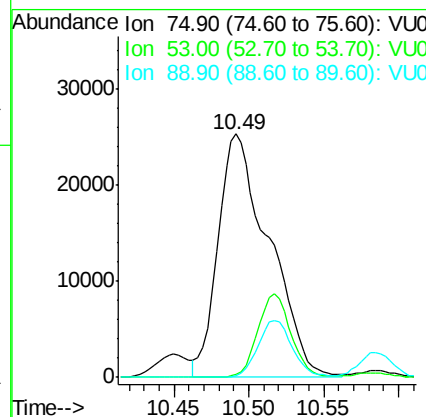
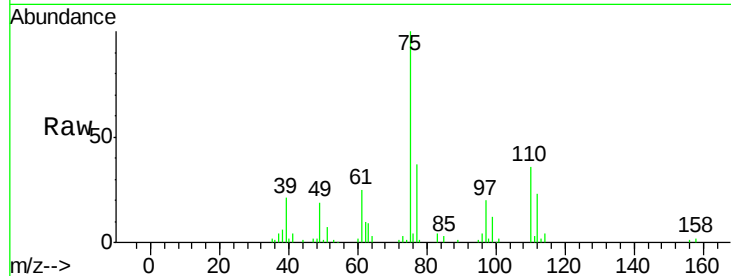




#81
trans-1,4-Dichloro-2-butene
Concen: 70.461 ug/l
RT: 10.49 min Scan# 2898
Delta R.T. -0.02 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

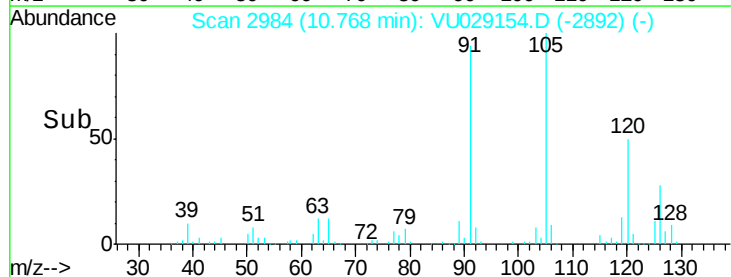
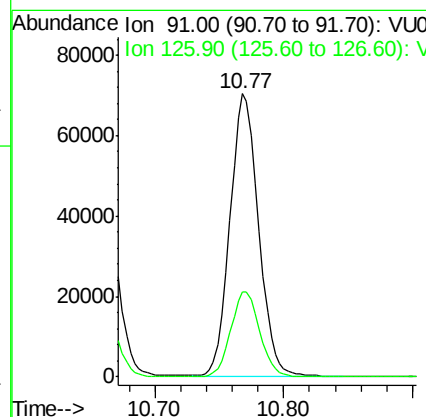
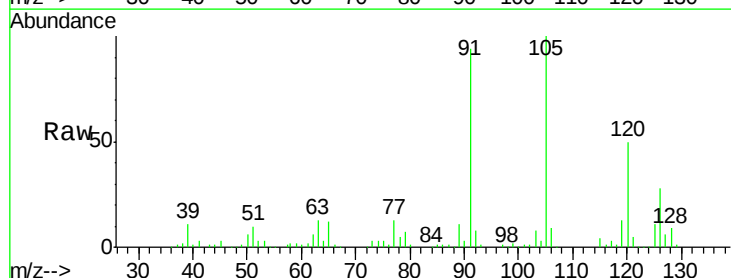
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 60009
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#82
4-Chlorotoluene
Concen: 19.828 ug/l
RT: 10.77 min Scan# 2984
Delta R.T. -0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion: 91 Resp: 107848
Ion Ratio Lower Upper
91 100
126 30.4 15.5 46.5

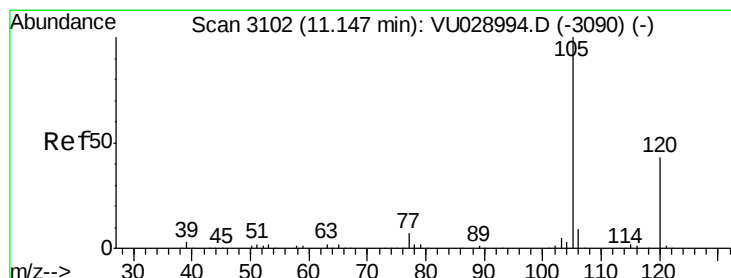
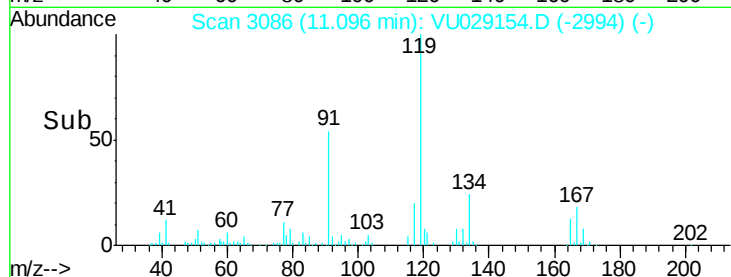
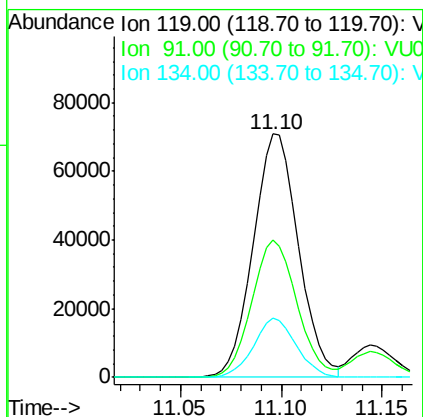
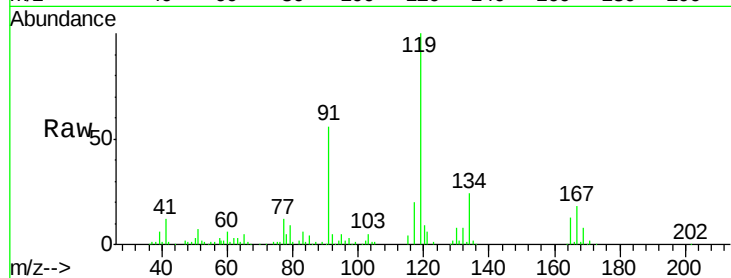




#83
tert-Butylbenzene
Concen: 20.352 ug/l
RT: 11.10 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

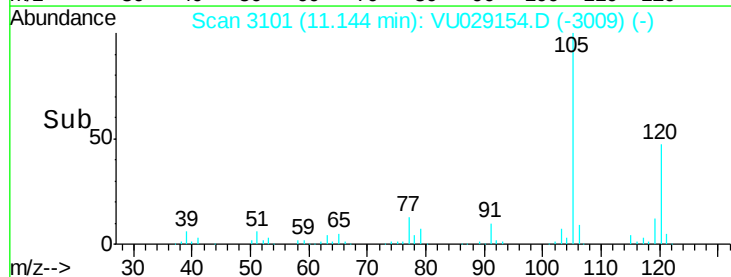
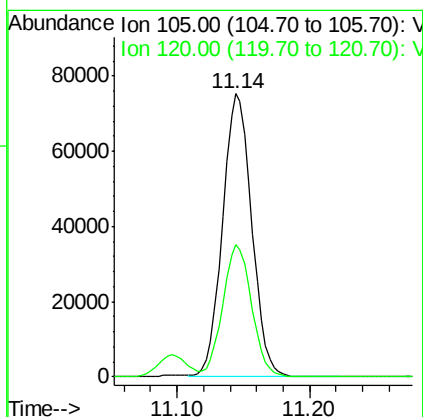
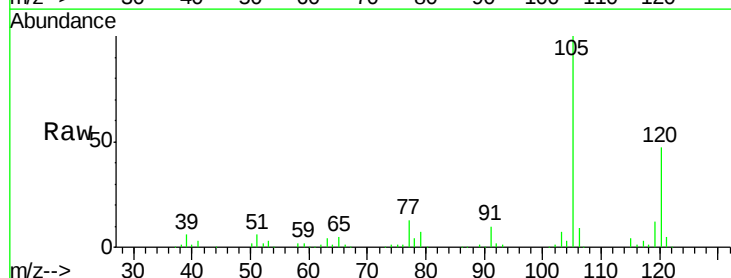
Instrument :
MSVOA_U
ClientSampleId :

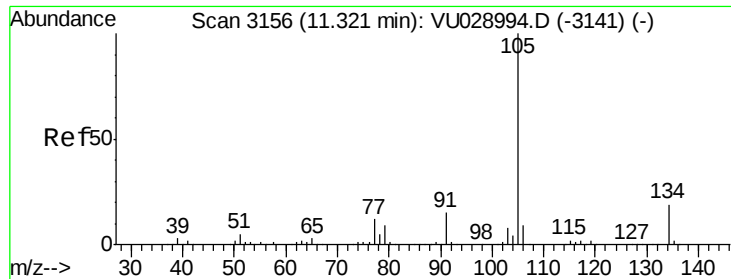
Tot Ion:119 Resp: 111151
Ion Ratio Lower Upper
119 100
91 56.0 28.2 84.6
134 22.9 11.3 33.8



#84
1,2,4-Trimethylbenzene
Concen: 20.777 ug/l
RT: 11.14 min Scan# 3101
Delta R.T. -0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion:105 Resp: 114943
Ion Ratio Lower Upper
105 100
120 46.1 23.1 69.3

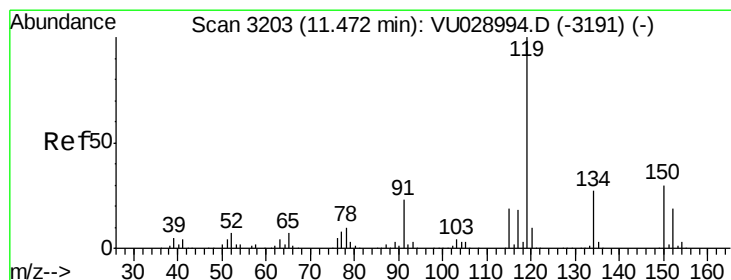
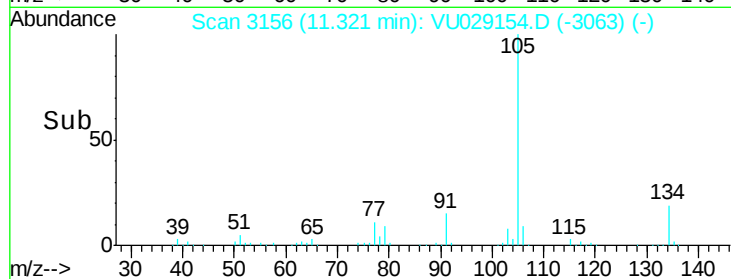
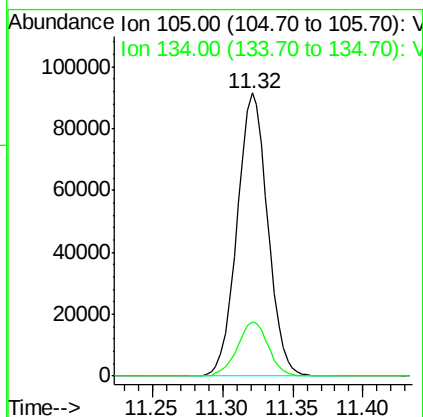
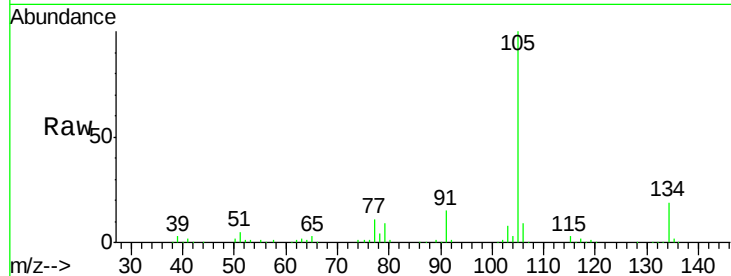




#85
 sec-Butylbenzene
 Concen: 21.053 ug/l
 RT: 11.32 min Scan# 3156
 Delta R.T. 0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

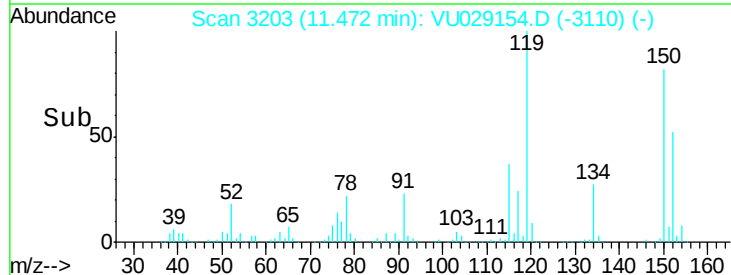
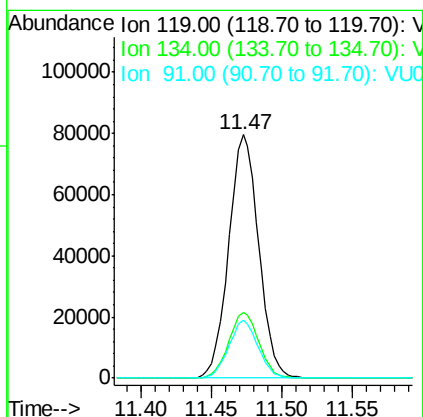
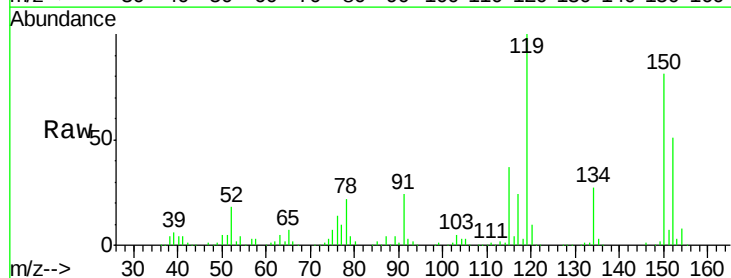
Instrument :
 MSVOA_U
 ClientSampled :

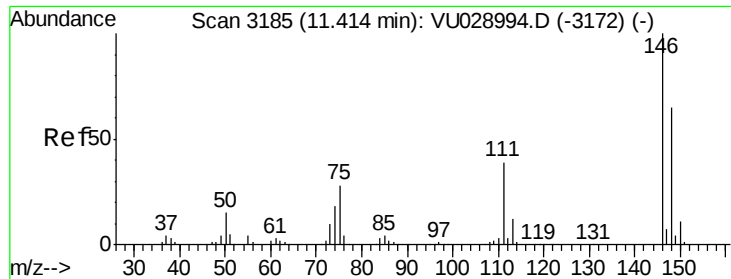
Tot Ion:105 Resp: 139058
 Ion Ratio Lower Upper
 105 100
 134 19.3 9.7 29.1



#86
 p-Isopropyltoluene
 Concen: 21.002 ug/l
 RT: 11.47 min Scan# 3203
 Delta R.T. 0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

Tgt Ion:119 Resp: 118207
 Ion Ratio Lower Upper
 119 100
 134 27.1 13.5 40.4
 91 23.4 11.3 33.8

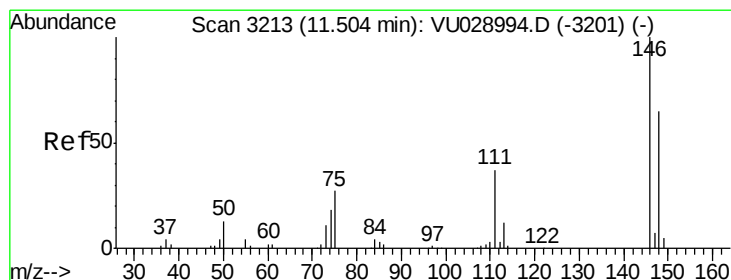
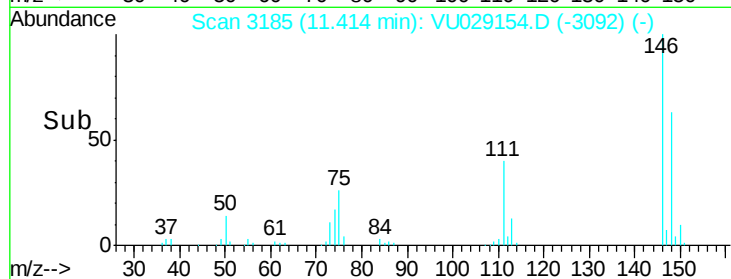
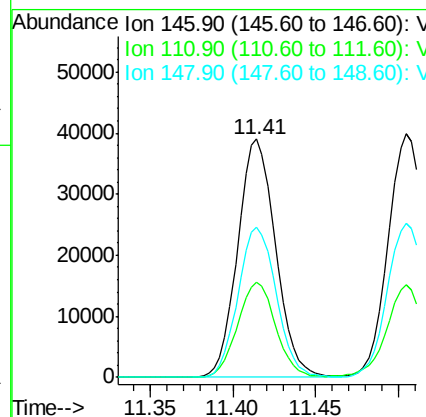
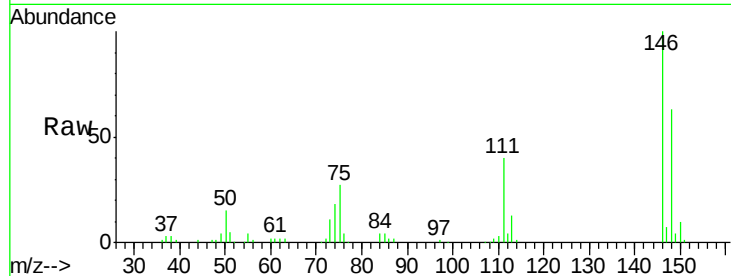




#87
 1,3-Dichlorobenzene
 Concen: 19.642 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. 0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

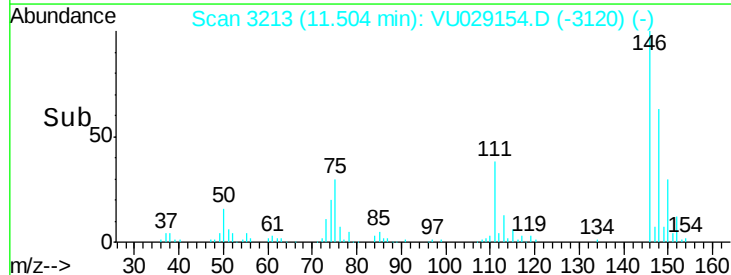
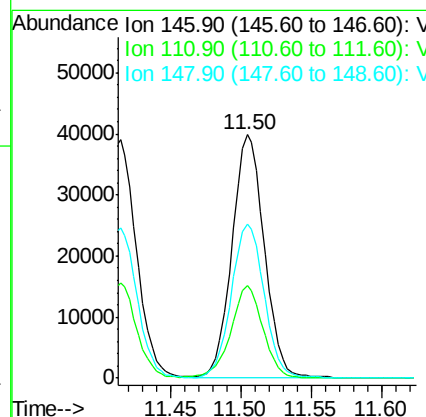
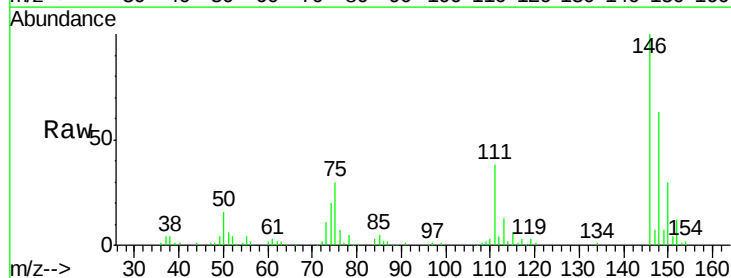
Instrument :
 MSVOA_U
 ClientSampled :

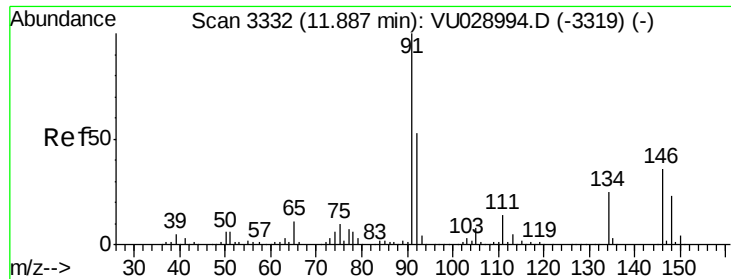
Tot Ion:146 Resp: 62298
 Ion Ratio Lower Upper
 146 100
 111 39.9 19.3 57.8
 148 63.3 32.5 97.5



#88
 1,4-Dichlorobenzene
 Concen: 19.530 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

Tgt Ion:146 Resp: 63941
 Ion Ratio Lower Upper
 146 100
 111 37.2 19.1 57.3
 148 64.2 32.6 98.0

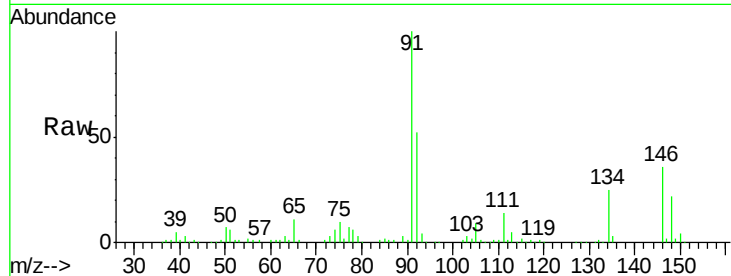




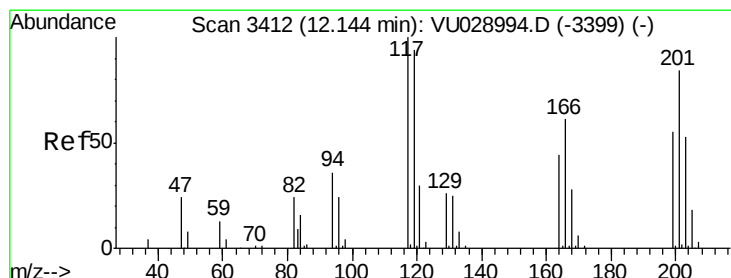
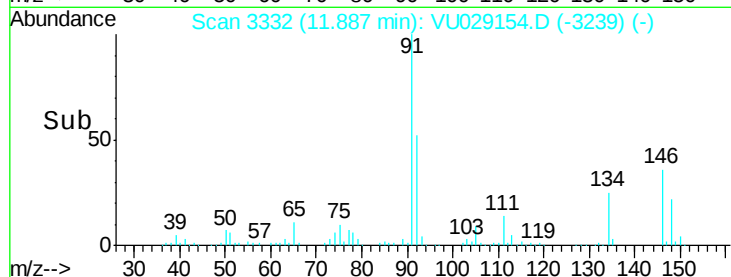
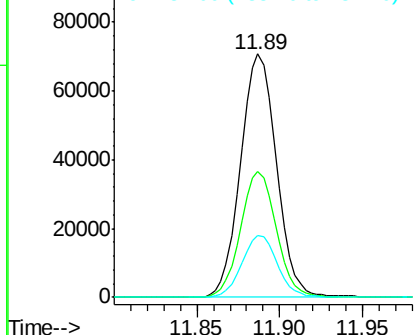
#89
n-Butylbenzene
Concen: 21.291 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 106953
Ion Ratio Lower Upper
91 100
92 51.6 26.2 78.5
134 25.0 12.6 37.6

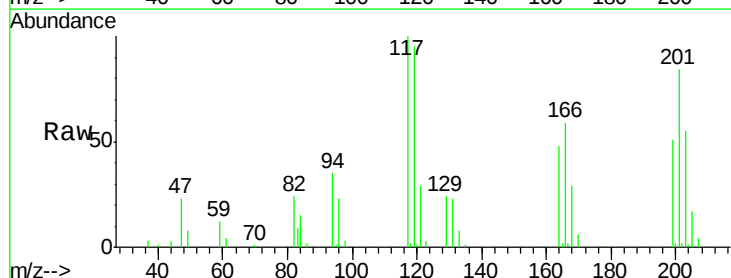


Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 92.00 (91.70 to 92.70): VU0
Ion 134.00 (133.70 to 134.70): V

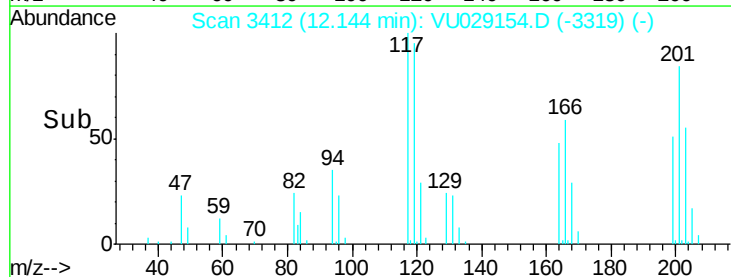
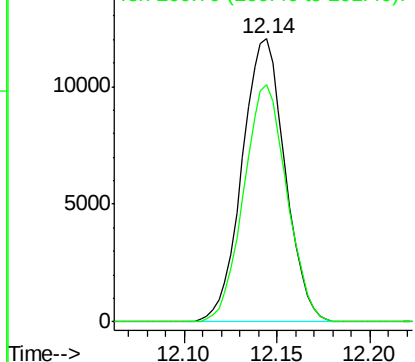


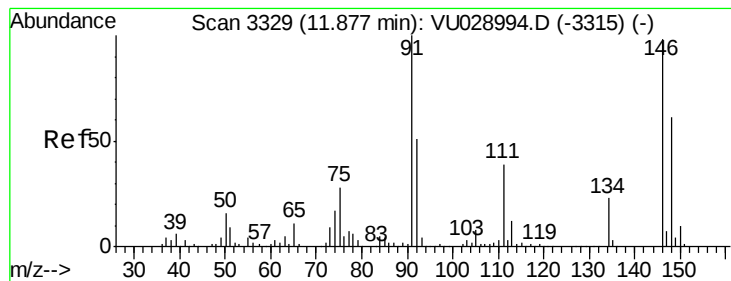
#90
Hexachloroethane
Concen: 20.502 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion: 117 Resp: 19412
Ion Ratio Lower Upper
117 100
201 84.1 42.4 127.3



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 19.827 ug/l

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

Instrument :

MSVOA_U

ClientSampled :

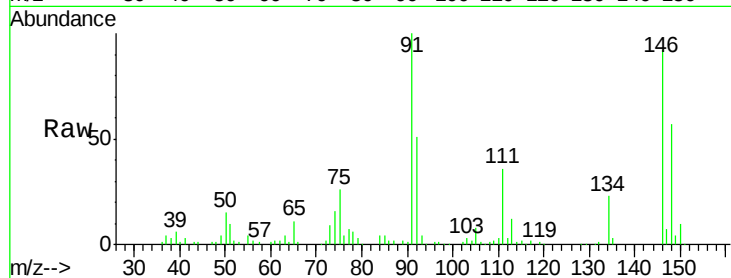
Tot Ion:146 Resp: 63341

Ion Ratio Lower Upper

146 100

111 39.2 20.0 59.9

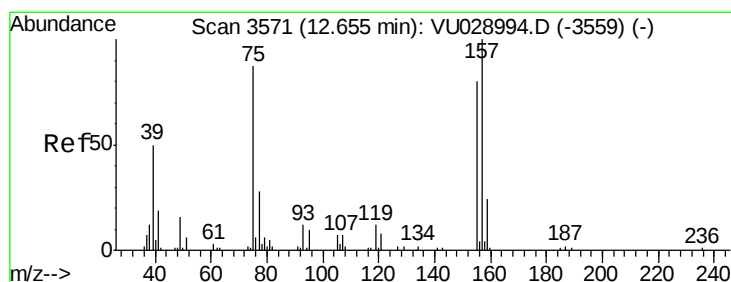
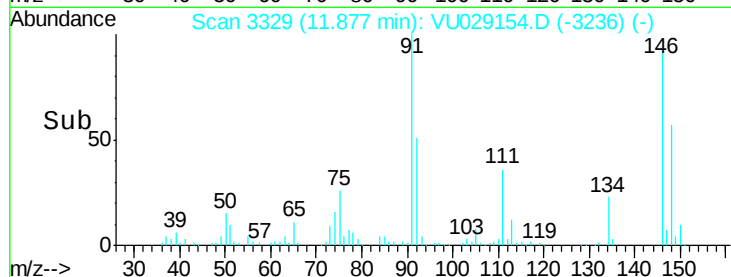
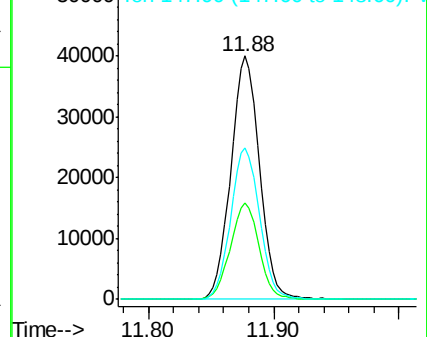
148 62.9 31.6 94.8



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: 20.499 ug/l

RT: 12.65 min Scan# 3570

Delta R.T. -0.00 min

Lab File: VU029154.D

Acq: 14 Jan 2019 10:34

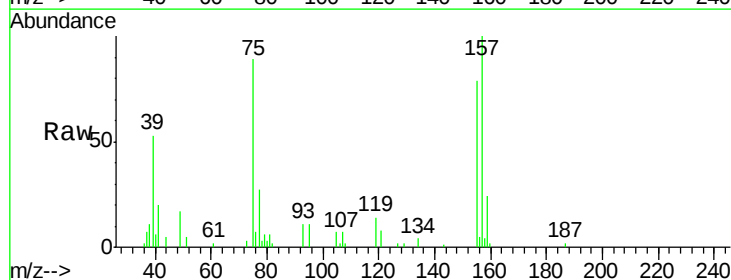
Tgt Ion: 75 Resp: 10485

Ion Ratio Lower Upper

75 100

155 88.9 46.3 138.8

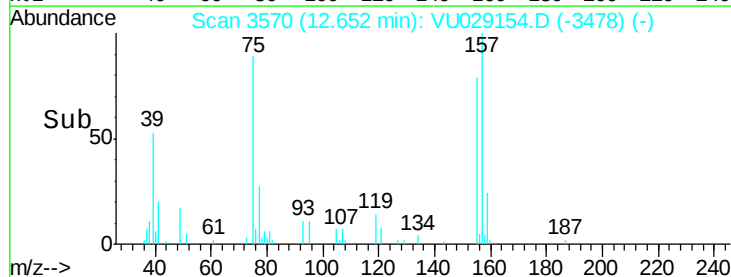
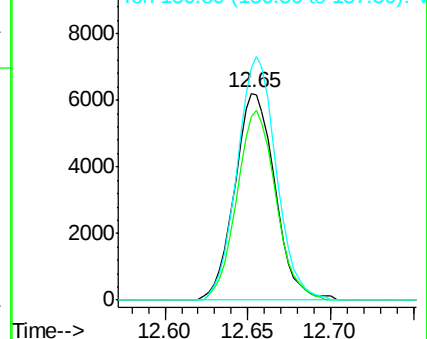
157 114.1 57.4 172.0



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

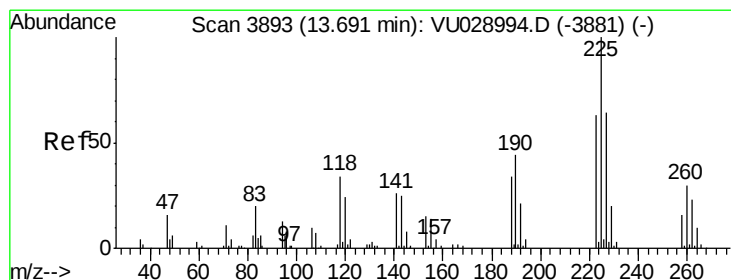
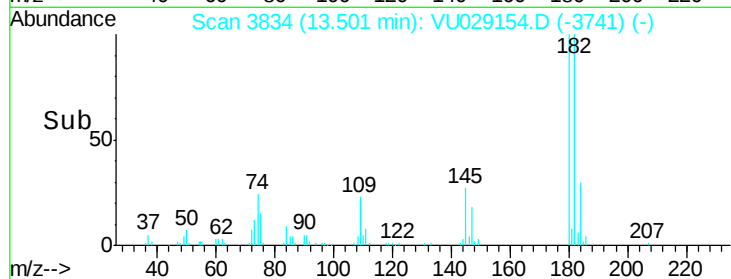
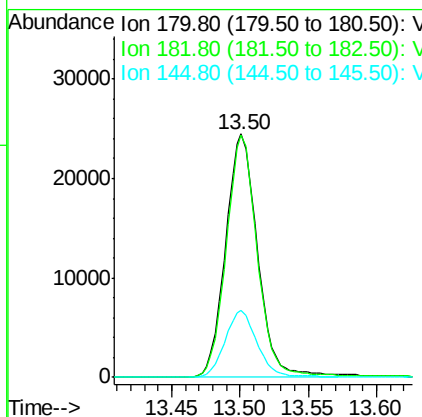
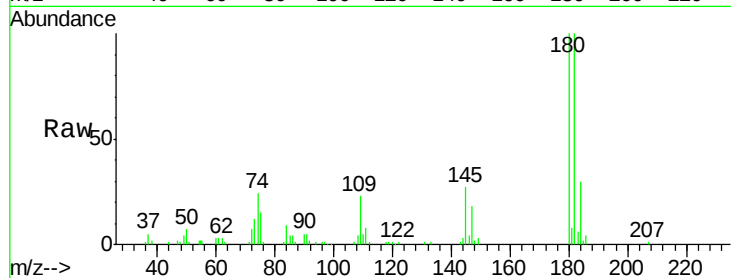




#93
 1,2,4-Trichlorobenzene
 Concen: 19.609 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

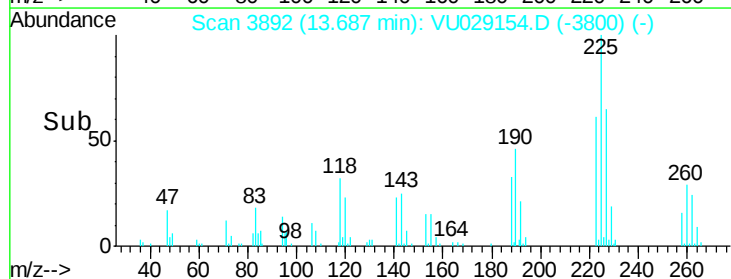
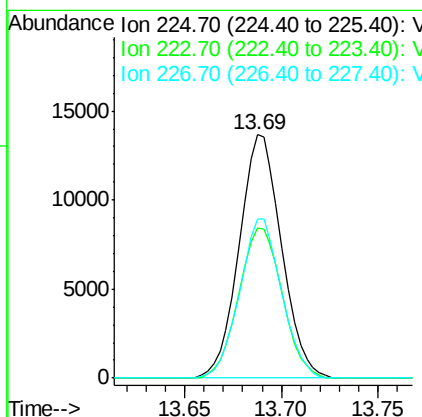
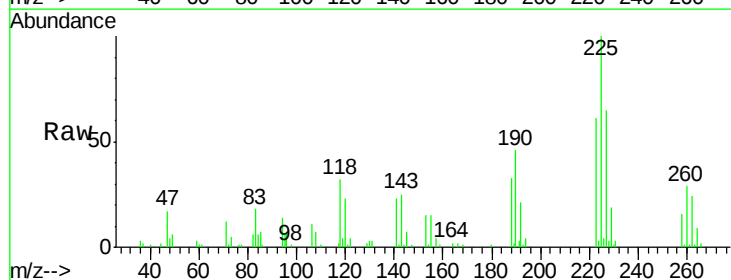
Instrument :
 MSVOA_U
 ClientSampleId :

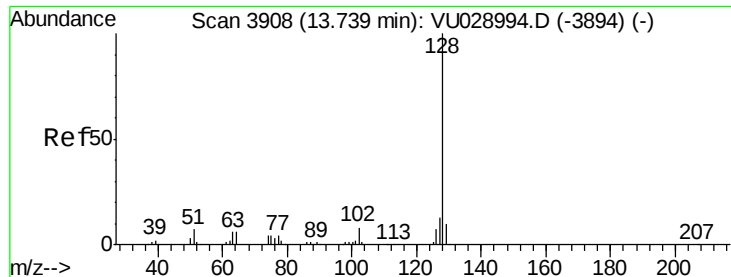
Tot Ion:180 Resp: 39989
 Ion Ratio Lower Upper
 180 100
 182 96.3 47.5 142.6
 145 27.4 14.0 42.0



#94
 Hexachlorobutadiene
 Concen: 22.306 ug/l
 RT: 13.69 min Scan# 3892
 Delta R.T. -0.00 min
 Lab File: VU029154.D
 Acq: 14 Jan 2019 10:34

Tgt Ion:225 Resp: 20806
 Ion Ratio Lower Upper
 225 100
 223 63.4 31.4 94.0
 227 64.7 31.9 95.5

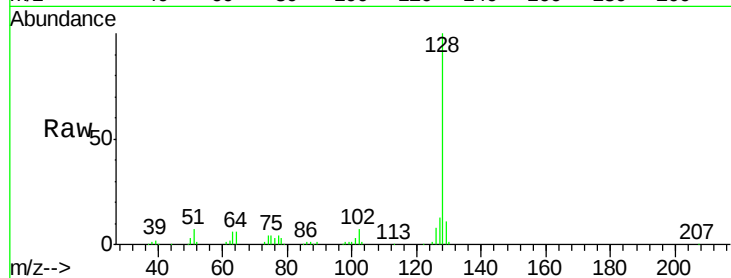




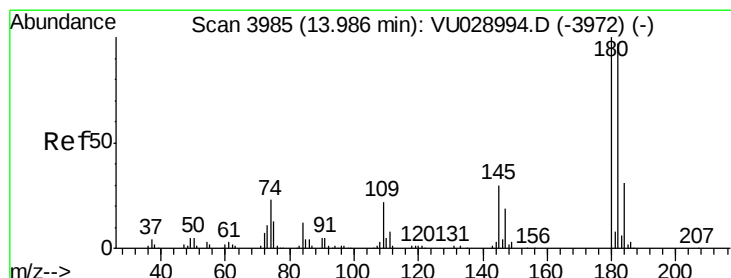
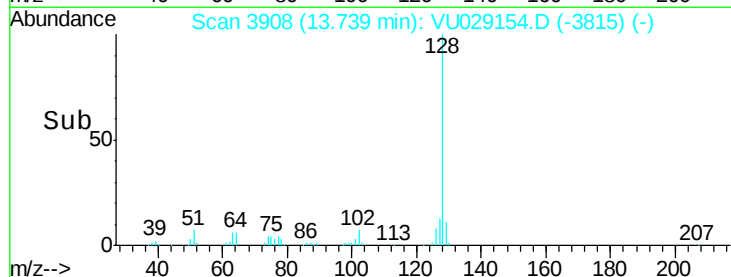
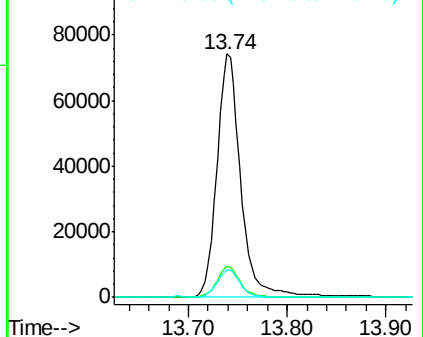
#95
Naphthalene
Concen: 18.155 ug/l
RT: 13.74 min Scan# 3908
Delta R.T. 0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 125944
Ion Ratio Lower Upper
128 100
127 12.4 10.1 15.1
129 11.1 8.5 12.7

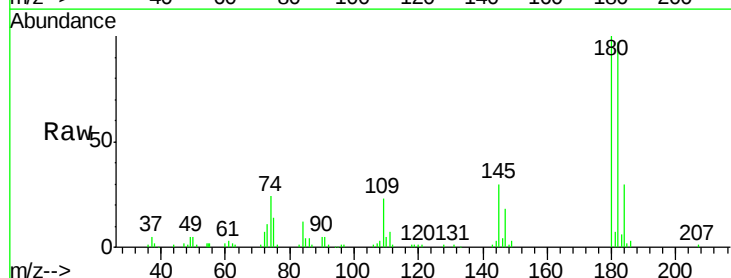


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 19.926 ug/l
RT: 13.98 min Scan# 3984
Delta R.T. -0.00 min
Lab File: VU029154.D
Acq: 14 Jan 2019 10:34

Tgt Ion:180 Resp: 40838
Ion Ratio Lower Upper
180 100
182 98.5 48.1 144.3
145 30.6 14.8 44.4



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

