

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121918\
 Data File : VU028791.D
 Acq On : 19 Dec 2018 14:08
 Operator : MD/SY
 Sample : VU1219WBS01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1219WBS01

Quant Time: Dec 20 03:20:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	112444	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	188271	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	174235	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	83220	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	75721	44.13	ug/l	0.00
Spiked Amount			Recovery	=	88.26%	
35) Dibromofluoromethane	4.88	113	62882	53.07	ug/l	0.00
Spiked Amount			Recovery	=	106.14%	
50) Toluene-d8	7.56	98	241556	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	
62) 4-Bromofluorobenzene	10.31	95	84918	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	27855	18.482	ug/l	99
3) Chloromethane	1.33	50	46759	16.875	ug/l	99
4) Vinyl Chloride	1.40	62	38839	19.423	ug/l	99
5) Bromomethane	1.61	94	18777	23.311	ug/l	97
6) Chloroethane	1.69	64	22804	20.144	ug/l	98
7) Trichlorofluoromethane	1.88	101	40212	19.114	ug/l	97
8) Diethyl Ether	2.10	74	19150	19.455	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	2.28	101	25221	20.044	ug/l	98
10) Methyl Iodide	2.41	142	26699	27.043	ug/l	94
11) Tert butyl alcohol	2.83	59	34409	90.003	ug/l	97
12) 1,1-Dichloroethene	2.28	96	26064	20.819	ug/l	88
13) Acrolein	2.19	56	25010	82.061	ug/l	98
14) Allyl chloride	2.59	41	48006	16.209	ug/l	92
15) Acrylonitrile	2.93	53	100539	94.722	ug/l	99
16) Acetone	2.32	43	83832	74.867	ug/l	92
17) Carbon Disulfide	2.48	76	86491	19.177	ug/l	100
18) Methyl Acetate	2.61	43	53988	18.599	ug/l	94
19) Methyl tert-butyl Ether	3.00	73	90921	19.158	ug/l	97
20) Methylene Chloride	2.70	84	32817	19.881	ug/l	87
21) trans-1,2-Dichloroethene	2.98	96	28460	20.191	ug/l	93
22) Diisopropyl ether	3.57	45	102162	17.738	ug/l	96
23) Vinyl Acetate	3.52	43	397824	83.741	ug/l #	95
24) 1,1-Dichloroethane	3.44	63	57060	18.926	ug/l	100
25) 2-Butanone	4.26	43	129385	84.552	ug/l	96
26) 2,2-Dichloropropane	4.23	77	42273	17.696	ug/l	94
27) cis-1,2-Dichloroethene	4.23	96	32349	20.276	ug/l	91
28) Bromochloromethane	4.55	49	24086	17.574	ug/l	85
29) Tetrahydrofuran	4.64	42	86221	87.731	ug/l	92
30) Chloroform	4.67	83	51693	19.673	ug/l	98
31) Cyclohexane	4.99	56	53709	17.477	ug/l	95
32) 1,1,1-Trichloroethane	4.91	97	41837	19.171	ug/l	97
36) 1,1-Dichloropropene	5.14	75	40781	19.794	ug/l	98
37) Ethyl Acetate	4.38	43	45731	17.171	ug/l #	95
38) Carbon Tetrachloride	5.14	117	33209	19.999	ug/l	99

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Quant Time: Dec 20 03:20:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	48224	19.186	ug/l	96
40) Benzene	5.39	78	128514	21.180	ug/l	98
41) Methacrylonitrile	4.54	41	26323	18.048	ug/l	94
42) 1,2-Dichloroethane	5.40	62	40035	18.849	ug/l	98
43) Isopropyl Acetate	5.55	43	74833	17.765	ug/l #	95
44) Trichloroethene	6.18	130	30122	22.326	ug/l	88
45) 1,2-Dichloropropane	6.43	63	35588	20.857	ug/l	96
46) Dibromomethane	6.56	93	21123	20.864	ug/l	92
47) Bromodichloromethane	6.76	83	39454	20.026	ug/l	99
48) Methyl methacrylate	6.62	41	37226	17.770	ug/l	89
49) 1,4-Dioxane	6.61	88	14597	441.298	ug/l	94
51) 4-Methyl-2-Pentanone	7.46	43	237766	89.491	ug/l	94
52) Toluene	7.64	92	76236	21.348	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	45927	19.574	ug/l	98
54) cis-1,3-Dichloropropene	7.27	75	50611	19.882	ug/l #	90
55) 1,1,2-Trichloroethane	8.06	97	31292	22.168	ug/l	95
56) Ethyl methacrylate	8.02	69	47796	19.772	ug/l	89
57) 1,3-Dichloropropane	8.24	76	54262	20.708	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.13	63	111202	89.813	ug/l	96
59) 2-Hexanone	8.36	43	178079	84.564	ug/l	91
60) Dibromochloromethane	8.48	129	28910	20.918	ug/l	99
61) 1,2-Dibromoethane	8.59	107	32521	21.969	ug/l	97
64) Tetrachloroethene	8.22	164	25602	22.029	ug/l	97
65) Chlorobenzene	9.12	112	79956	21.535	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	25839	21.794	ug/l	95
67) Ethyl Benzene	9.25	91	138226	20.252	ug/l	99
68) m/p-Xylenes	9.37	106	108398	43.647	ug/l	92
69) o-Xylene	9.78	106	51110	21.177	ug/l	96
70) Styrene	9.79	104	84093	21.054	ug/l	96
71) Bromoform	9.96	173	21997	21.810	ug/l #	99
73) Isopropylbenzene	10.16	105	132460	20.743	ug/l	99
74) N-amyl acetate	10.01	43	61900	16.805	ug/l	91
75) 1,1,2,2-Tetrachloroethane	10.46	83	52718	21.491	ug/l	98
76) 1,2,3-Trichloropropane	10.49	75	61387	28.887	ug/l	83
77) Bromobenzene	10.45	156	33632	22.519	ug/l	90
78) n-propylbenzene	10.58	91	159170	20.059	ug/l	98
79) 2-Chlorotoluene	10.66	91	94907	20.764	ug/l	97
80) 1,3,5-Trimethylbenzene	10.77	105	109598	20.734	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.49	75	61387	70.805	ug/l #	100
82) 4-Chlorotoluene	10.77	91	105363	19.453	ug/l	97
83) tert-Butylbenzene	11.10	119	107603	21.120	ug/l	96
84) 1,2,4-Trimethylbenzene	11.15	105	111715	20.507	ug/l	96
85) sec-Butylbenzene	11.32	105	132951	20.312	ug/l	99
86) p-Isopropyltoluene	11.47	119	110682	19.907	ug/l	97
87) 1,3-Dichlorobenzene	11.41	146	59497	21.098	ug/l	99
88) 1,4-Dichlorobenzene	11.50	146	59650	20.444	ug/l	100
89) n-Butylbenzene	11.89	91	99430	17.670	ug/l	99
90) Hexachloroethane	12.14	117	17522	20.850	ug/l	93
91) 1,2-Dichlorobenzene	11.88	146	60409	21.415	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	12.66	75	10520	19.809	ug/l	89

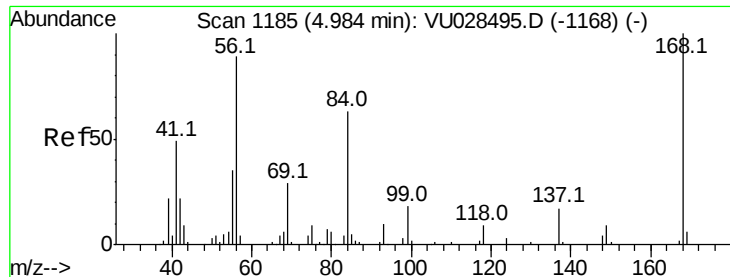
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121918\
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 07 00:39:42 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	35314	18.754	ug/l	98
94) Hexachlorobutadiene	13.69	225	17330	18.755	ug/l	97
95) Naphthalene	13.74	128	123837	18.295	ug/l	100
96) 1,2,3-Trichlorobenzene	13.99	180	38053	19.814	ug/l	99

(#) = 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: VU028791.D

Acq: 19 Dec 2018 14:08

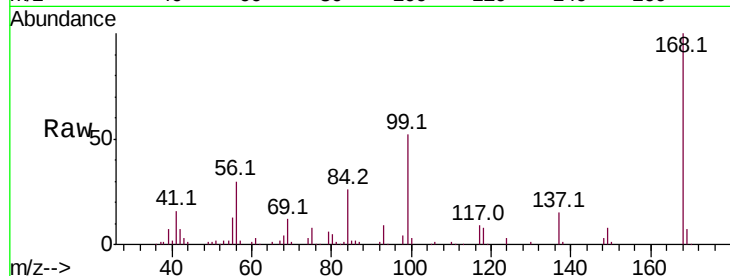
Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

Tot Ion:168 Resp: 112444

Ion Ratio Lower Upper

168 100

99 52.1 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

50000

40000

30000

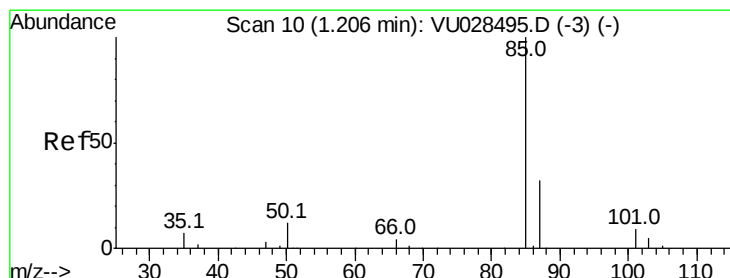
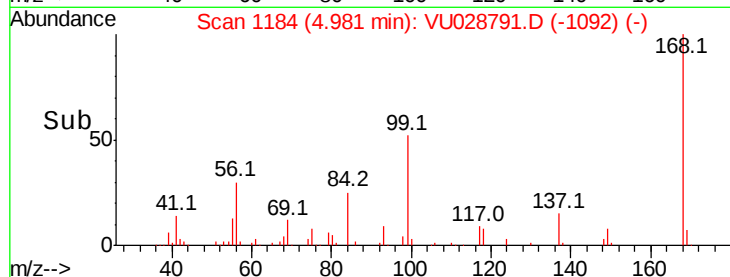
20000

10000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 18.482 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028791.D

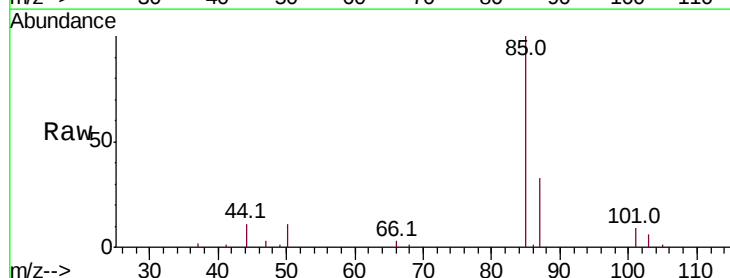
Acq: 19 Dec 2018 14:08

Tgt Ion: 85 Resp: 27855

Ion Ratio Lower Upper

85 100

87 32.5 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VU028495.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU028495.D (-3) (-)

1.21

30000

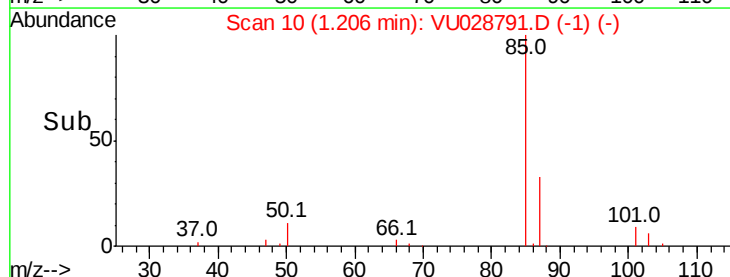
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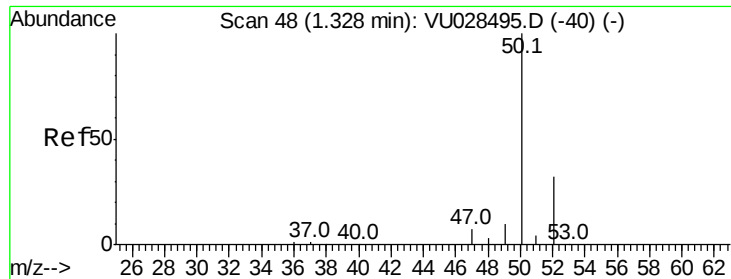
10000

0

1.20 1.25

Time-->





#3

Chloromethane

Concen: 16.875 ug/l

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

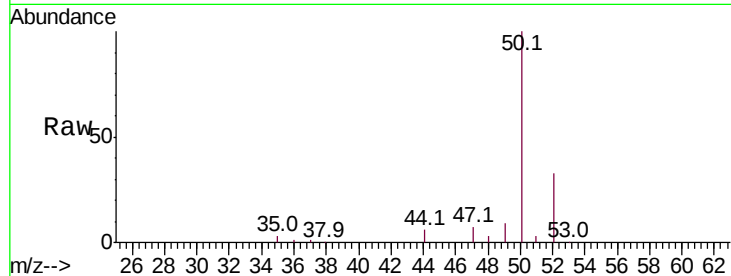
VU1219WBS01

Tot Ion: 50 Resp: 46759

Ion Ratio Lower Upper

50 100

52 32.6 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0

1.33

50000

40000

30000

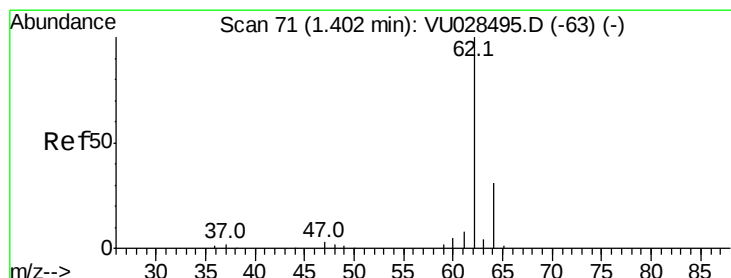
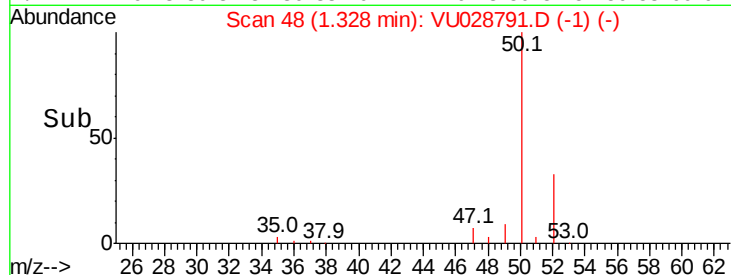
20000

10000

0

1.30 1.35 1.40

Time-->



#4

Vinyl Chloride

Concen: 19.423 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028791.D

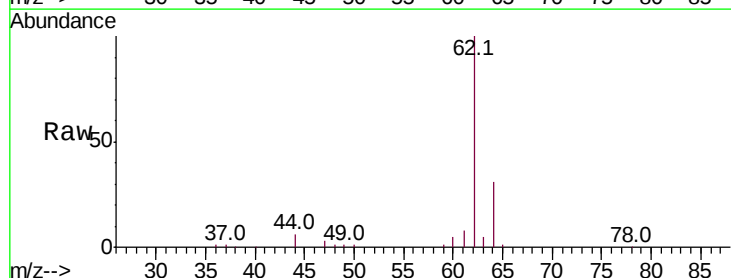
Acq: 19 Dec 2018 14:08

Tgt Ion: 62 Resp: 38839

Ion Ratio Lower Upper

62 100

64 31.0 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

1.40

40000

30000

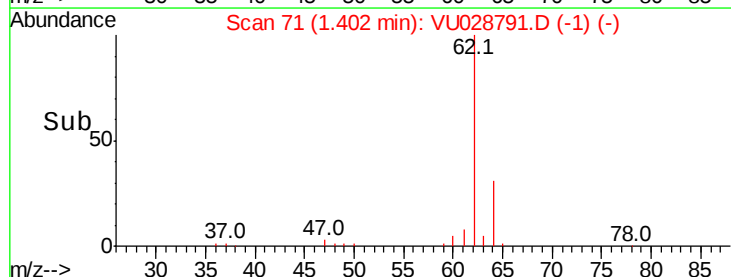
20000

10000

0

1.35 1.40 1.45

Time-->





#5

Bromomethane

Concen: 23.311 ug/l

RT: 1.61 min Scan# 137

Delta R.T. -0.01 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

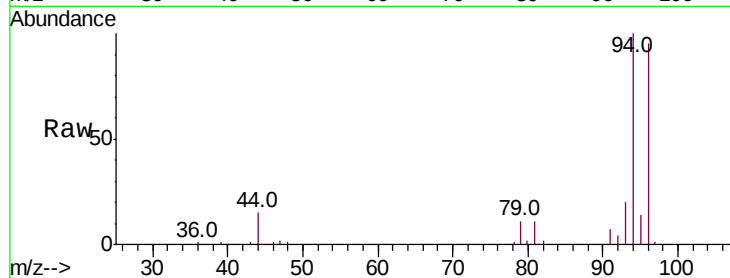
VU1219WBS01

Tot Ion: 94 Resp: 18777

Ion Ratio Lower Upper

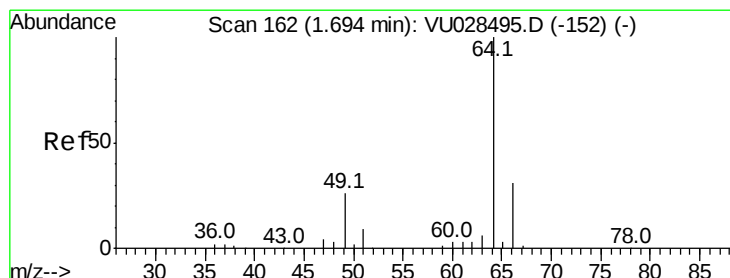
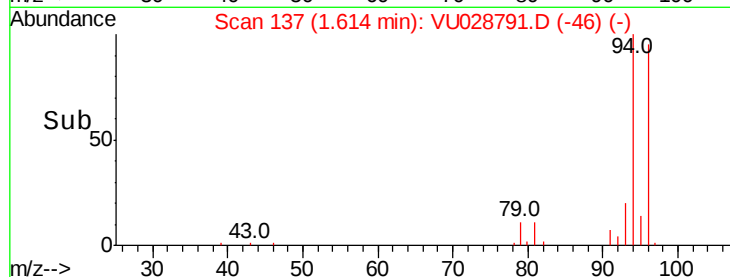
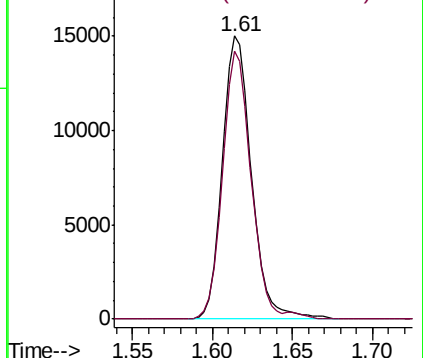
94 100

96 94.6 73.2 109.8



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 20.144 ug/l

RT: 1.69 min Scan# 161

Delta R.T. -0.00 min

Lab File: VU028791.D

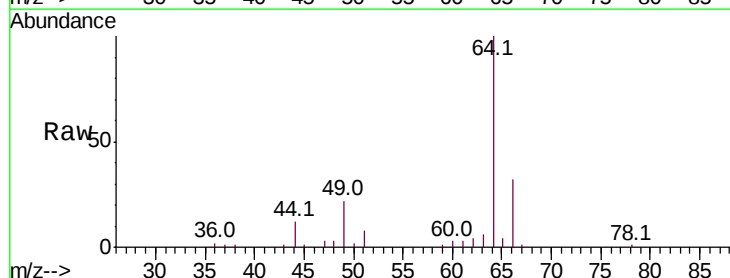
Acq: 19 Dec 2018 14:08

Tgt Ion: 64 Resp: 22804

Ion Ratio Lower Upper

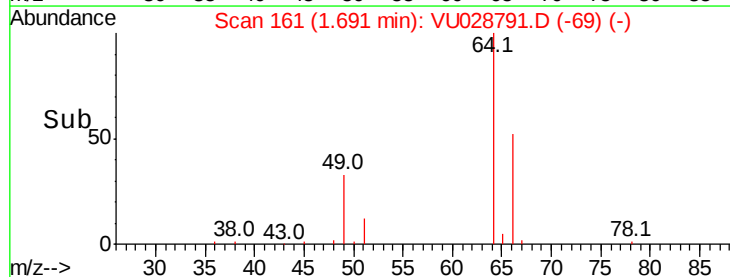
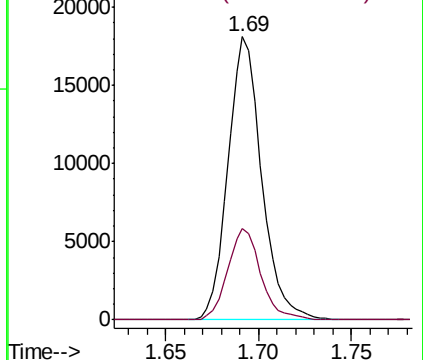
64 100

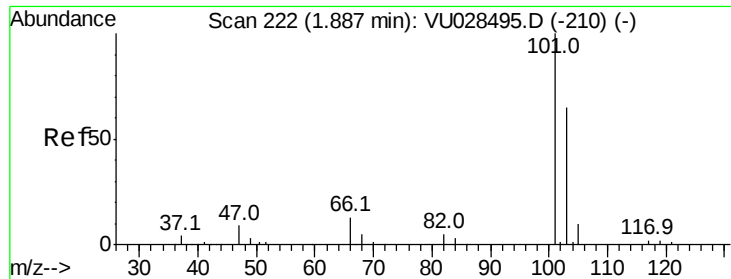
66 32.4 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



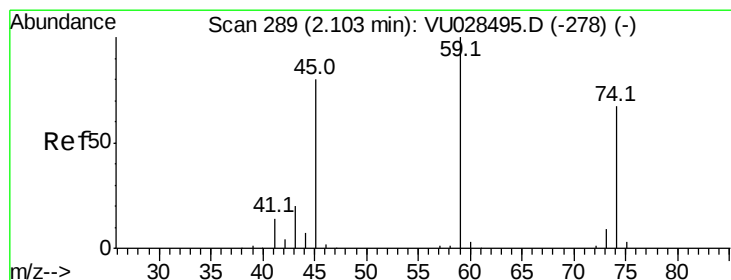
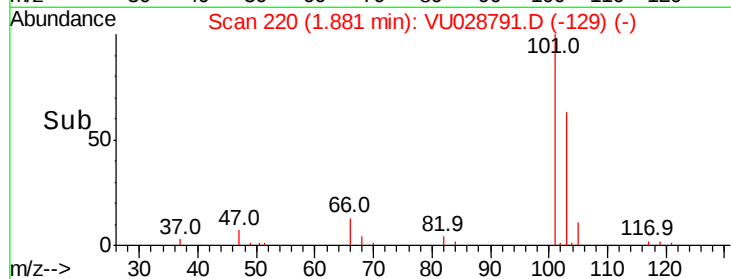
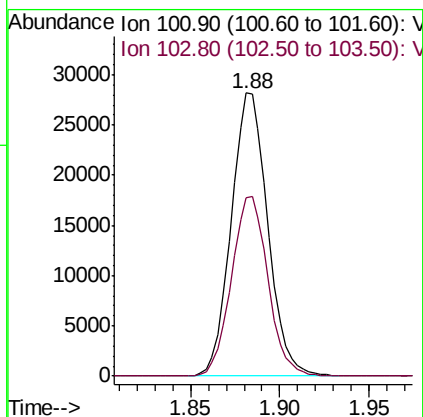
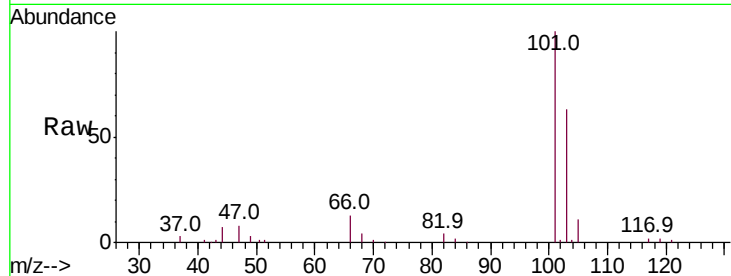


#7

Trichlorofluoromethane
 Concen: 19.114 ug/l
 RT: 1.88 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VU028791.D
 Acq: 19 Dec 2018 14:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1219WBS01

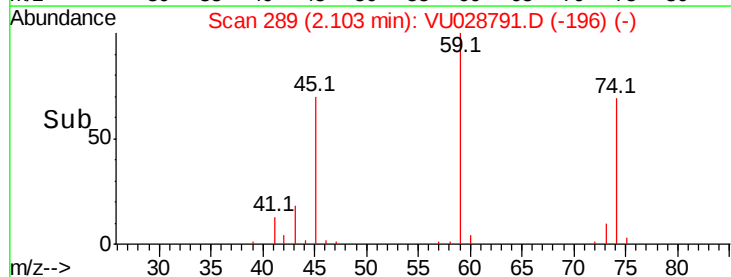
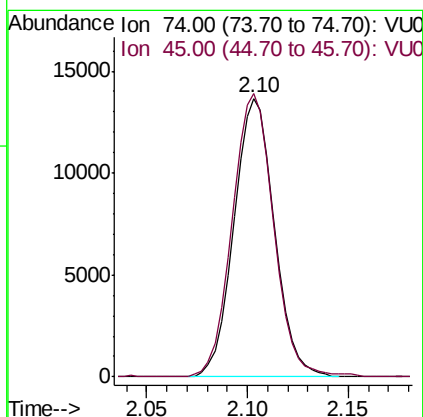
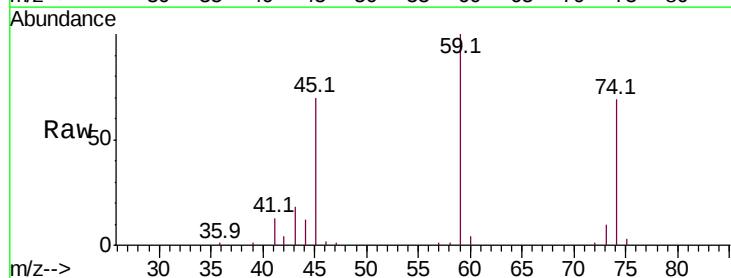
Tot Ion:101 Resp: 40212
 Ion Ratio Lower Upper
 101 100
 103 62.9 52.3 78.5



#8

Diethyl Ether
 Concen: 19.455 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. 0.00 min
 Lab File: VU028791.D
 Acq: 19 Dec 2018 14:08

Tgt Ion: 74 Resp: 19150
 Ion Ratio Lower Upper
 74 100
 45 104.7 59.7 179.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.044 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

VU1219WBS01

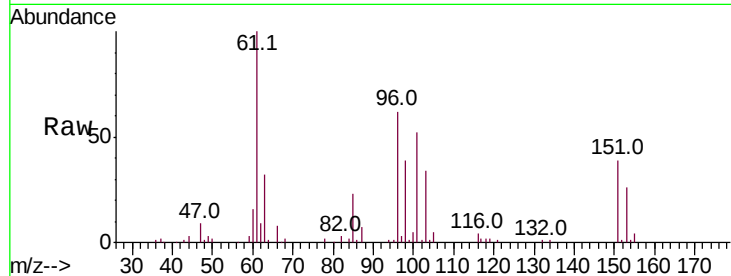
Tot Ion:101 Resp: 25221

Ion Ratio Lower Upper

101 100

85 44.2 36.4 54.6

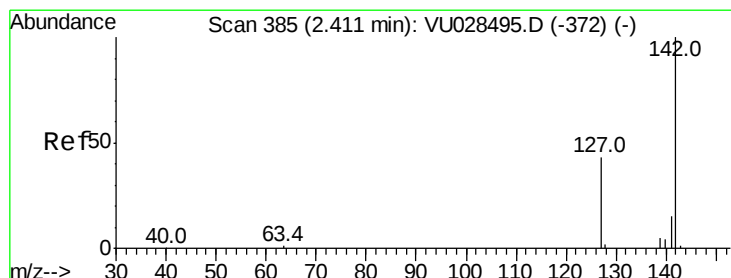
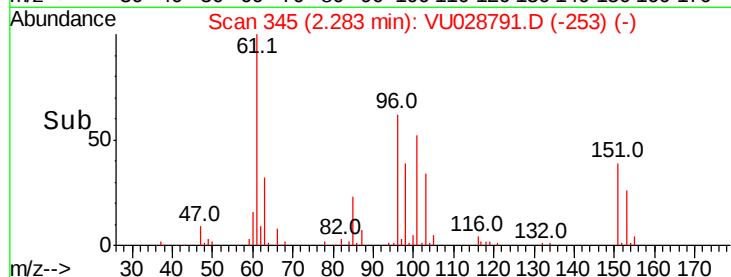
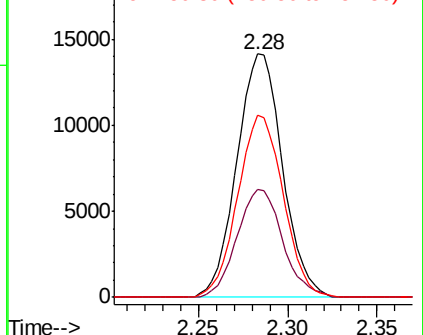
151 74.7 58.2 87.2



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: 27.043 ug/l

RT: 2.41 min Scan# 384

Delta R.T. -0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

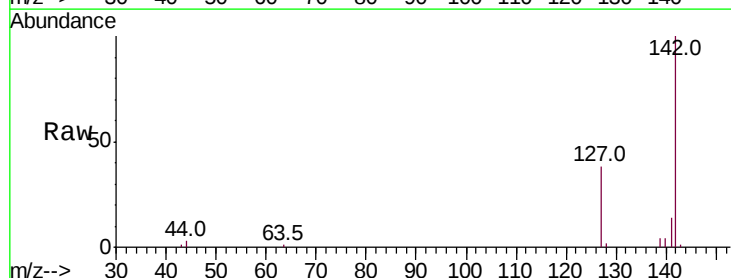
Tgt Ion:142 Resp: 26699

Ion Ratio Lower Upper

142 100

127 37.9 33.5 50.3

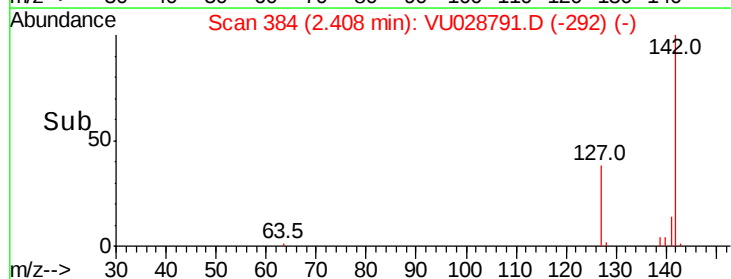
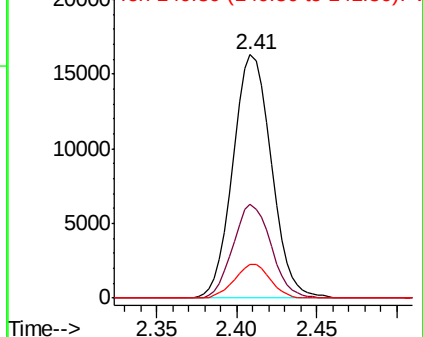
141 12.8 11.2 16.8



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: 90.003 ug/l

RT: 2.83 min Scan# 514

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

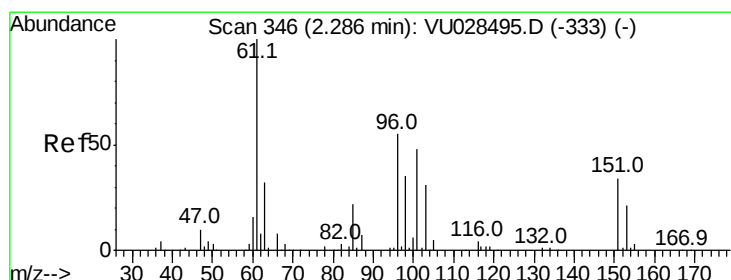
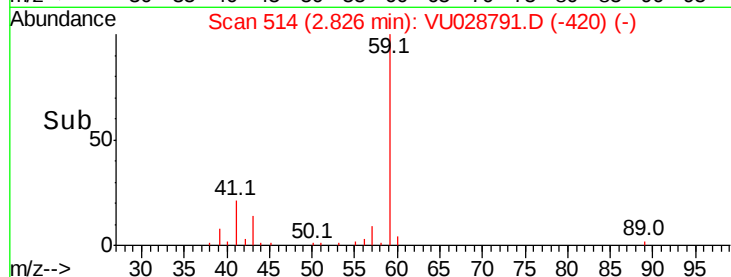
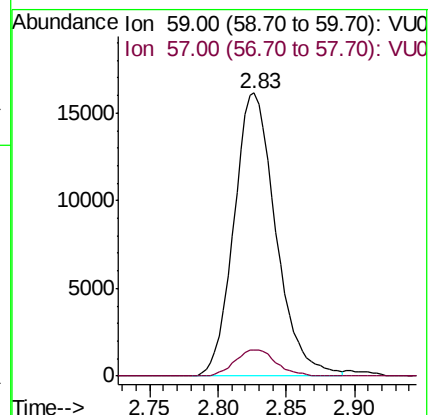
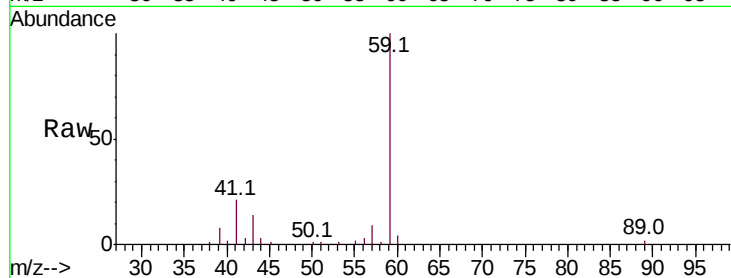
VU1219WBS01

Tot Ion: 59 Resp: 34409

Ion Ratio Lower Upper

59 100

57 9.0 8.0 12.0



#12

1,1-Dichloroethene

Concen: 20.819 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

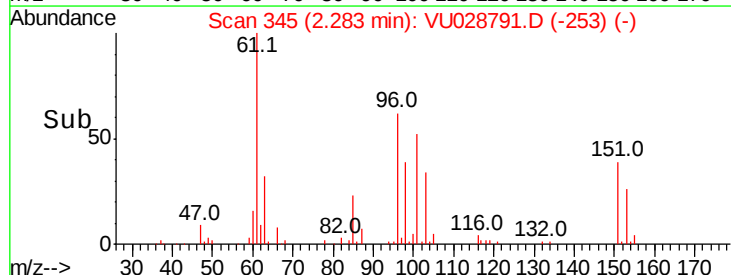
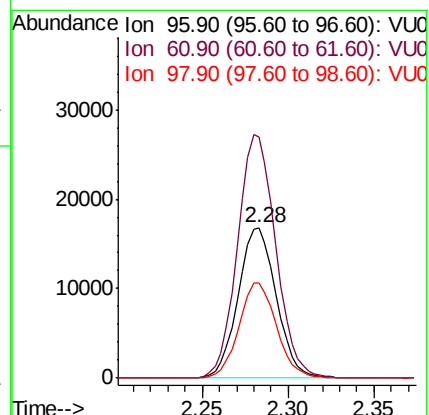
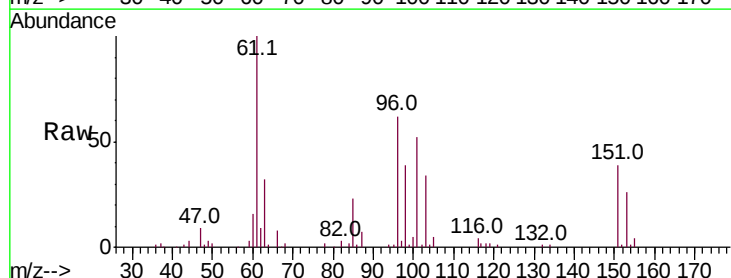
Tgt Ion: 96 Resp: 26064

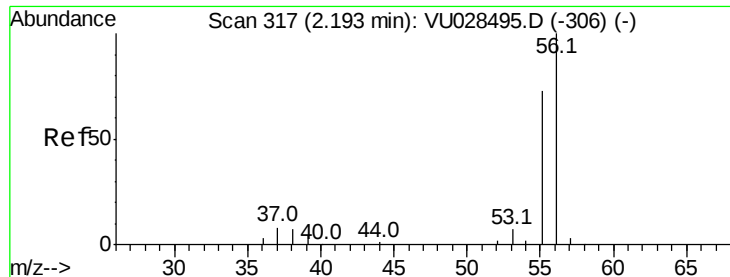
Ion Ratio Lower Upper

96 100

61 160.2 146.4 219.6

98 63.1 51.8 77.8





#13

Acrolein

Concen: 82.061 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

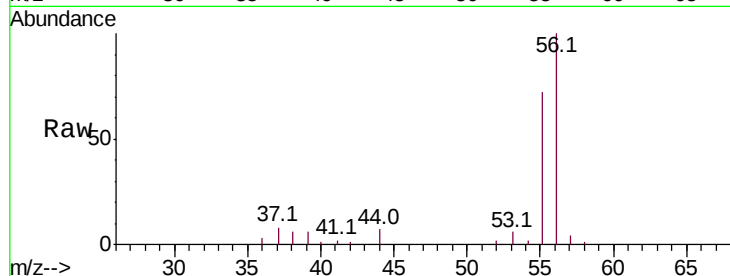
VU1219WBS01

Tot Ion: 56 Resp: 25010

Ion Ratio Lower Upper

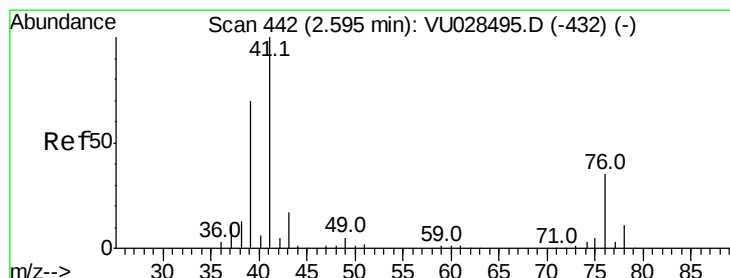
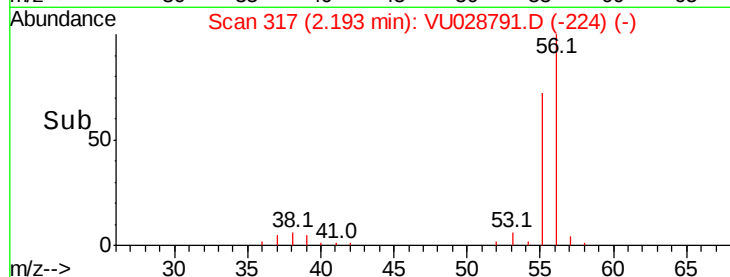
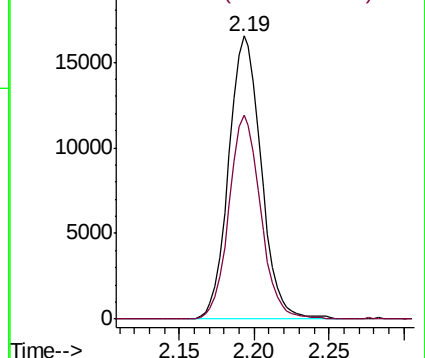
56 100

55 70.3 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#14

Allyl chloride

Concen: 16.209 ug/l

RT: 2.59 min Scan# 441

Delta R.T. -0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

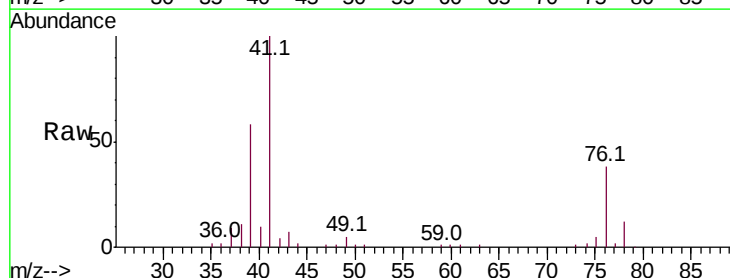
Tgt Ion: 41 Resp: 48006

Ion Ratio Lower Upper

41 100

39 58.9 50.8 76.2

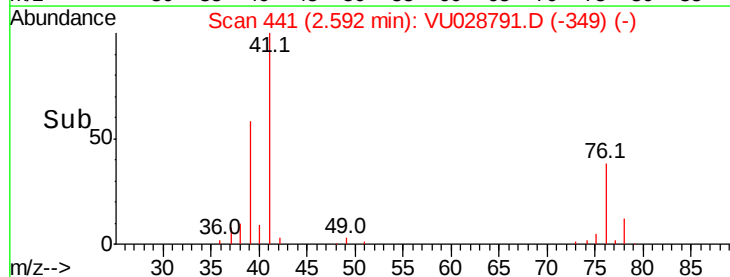
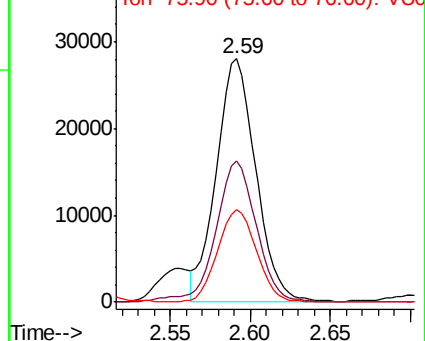
76 37.1 24.8 37.2

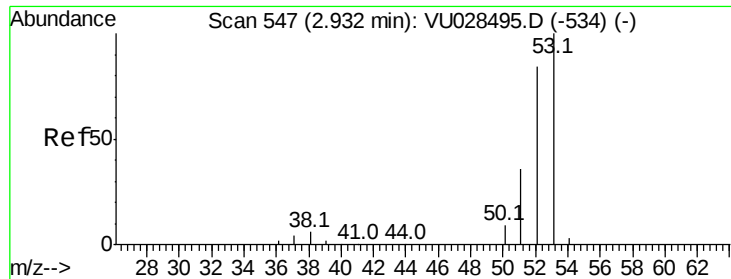


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





#15

Acrylonitrile

Concen: 94.722 ug/l

RT: 2.93 min Scan# 547

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

VU1219WBS01

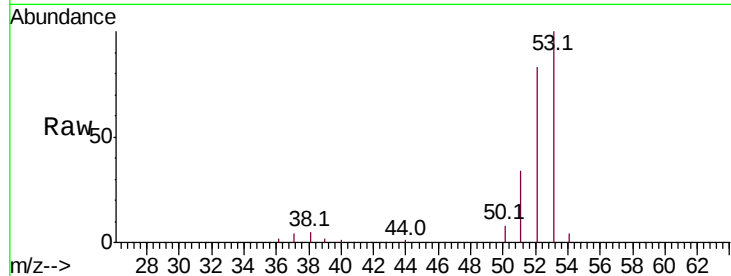
Tot Ion: 53 Resp: 100539

Ion Ratio Lower Upper

53 100

52 82.0 66.1 99.1

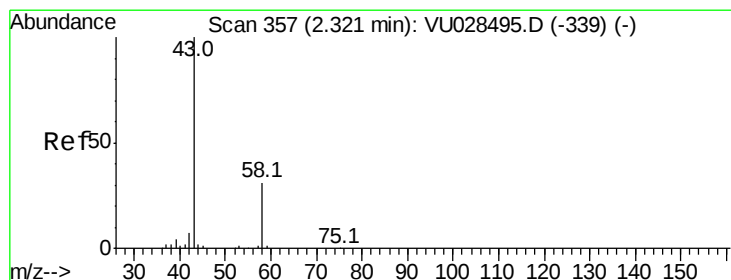
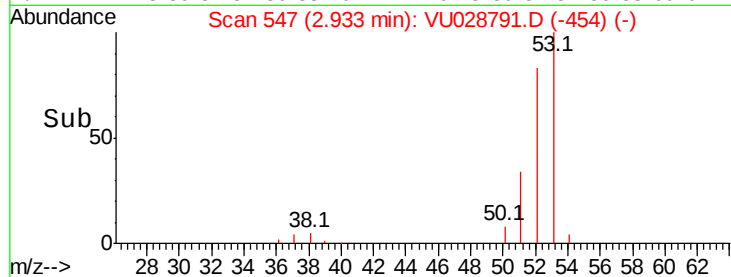
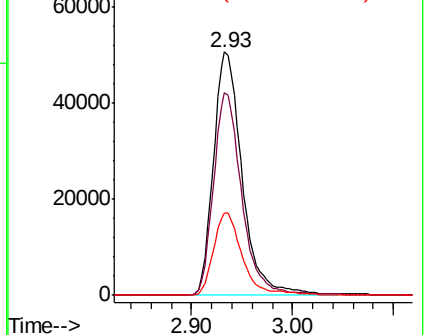
51 34.0 28.1 42.1



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: 74.867 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU028791.D

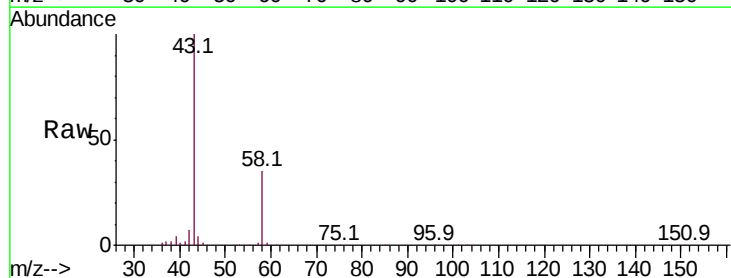
Acq: 19 Dec 2018 14:08

Tgt Ion: 43 Resp: 83832

Ion Ratio Lower Upper

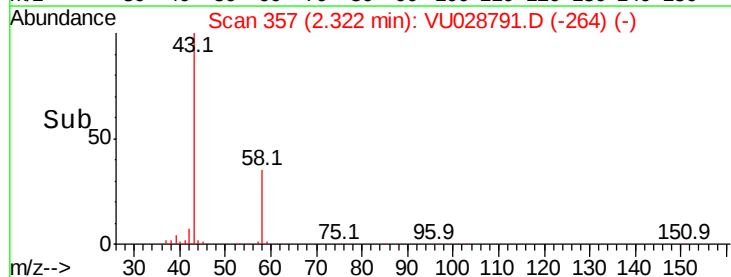
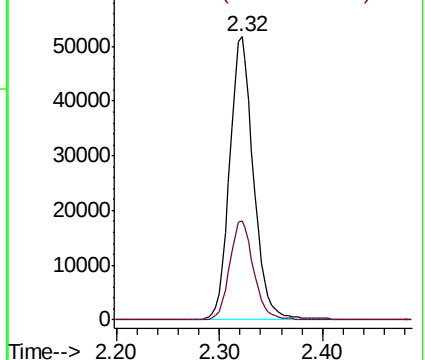
43 100

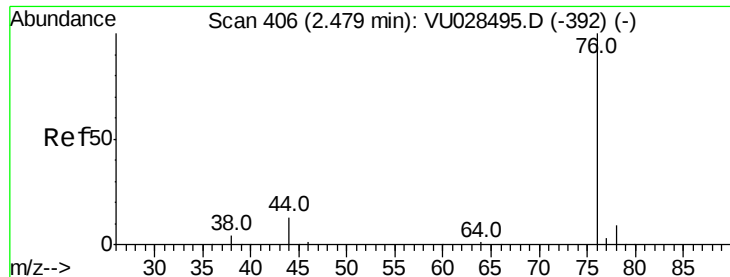
58 35.2 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

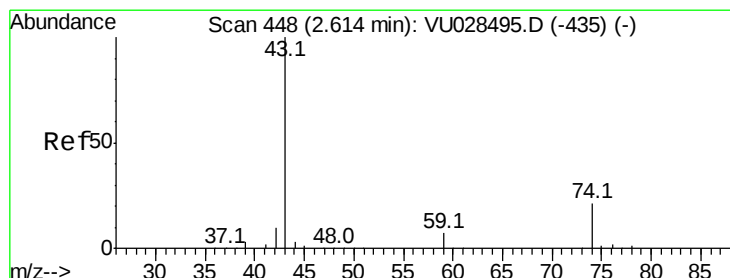
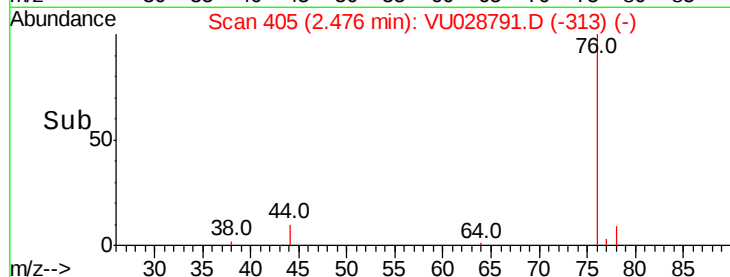
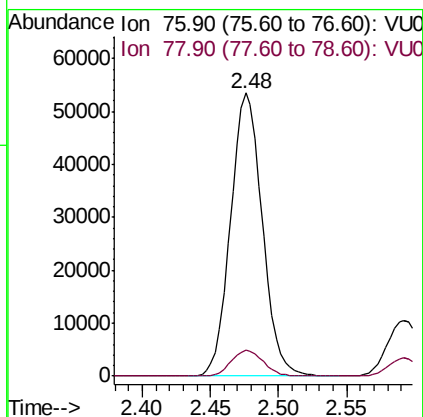
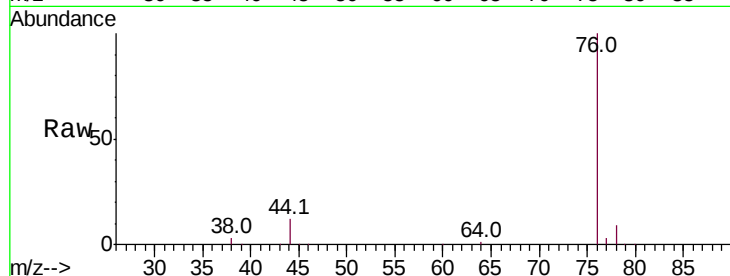




#17
Carbon Disulfide
Concen: 19.177 ug/l
RT: 2.48 min Scan# 405
Delta R.T. -0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

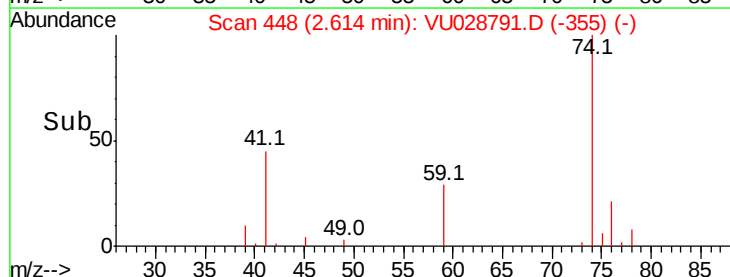
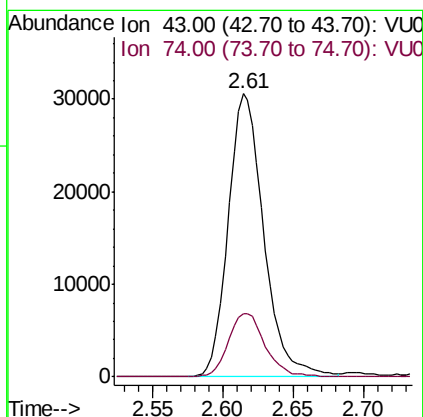
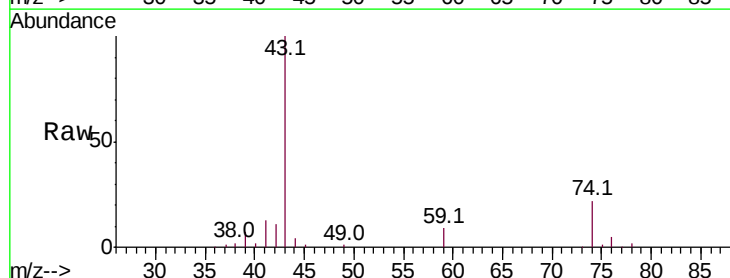
Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

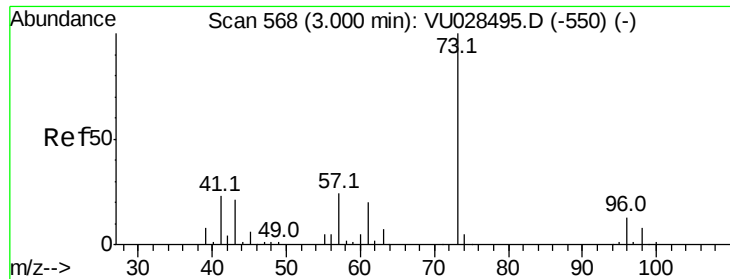
Tot Ion: 76 Resp: 86491
Ion Ratio Lower Upper
76 100
78 9.1 7.2 10.8



#18
Methyl Acetate
Concen: 18.599 ug/l
RT: 2.61 min Scan# 448
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Tgt Ion: 43 Resp: 53988
Ion Ratio Lower Upper
43 100
74 23.2 16.4 24.6

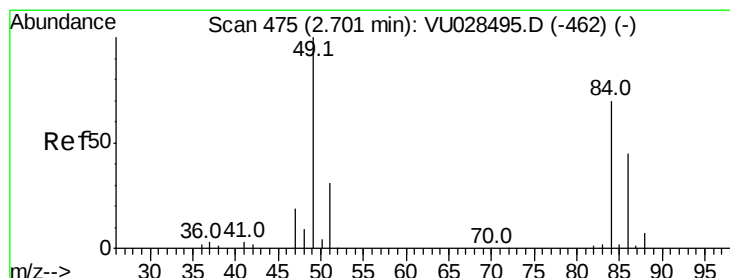
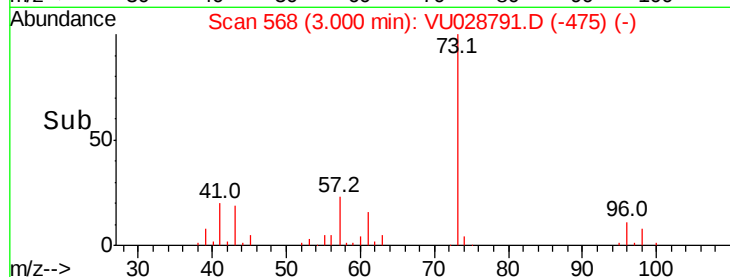
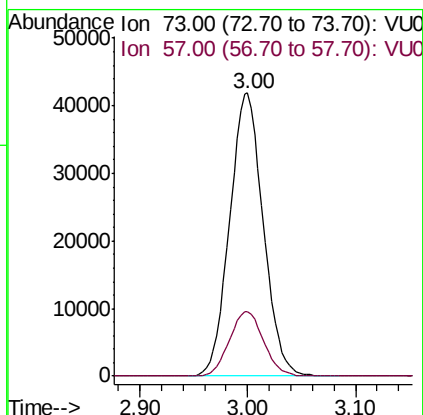
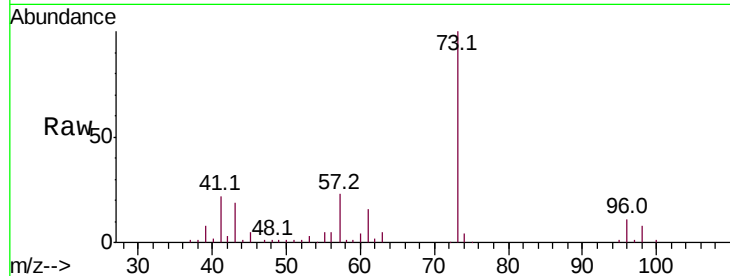




#19
Methyl tert-butyl Ether
Concen: 19.158 ug/l
RT: 3.00 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

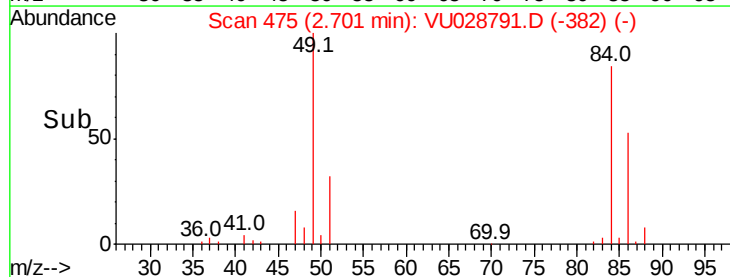
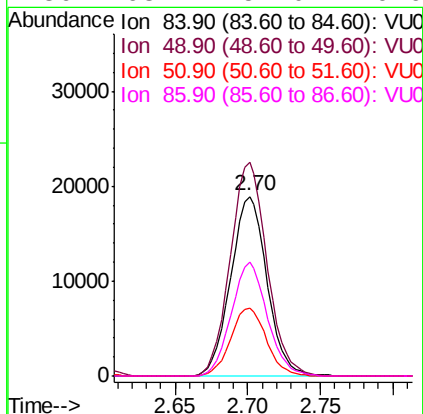
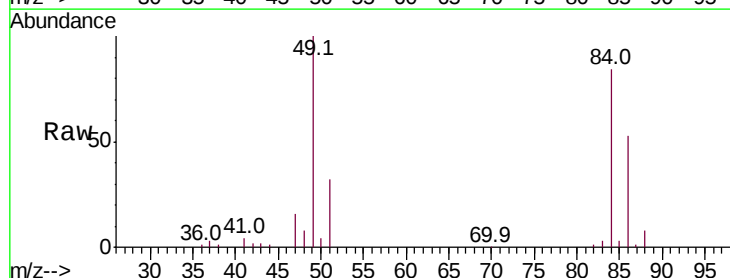
Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

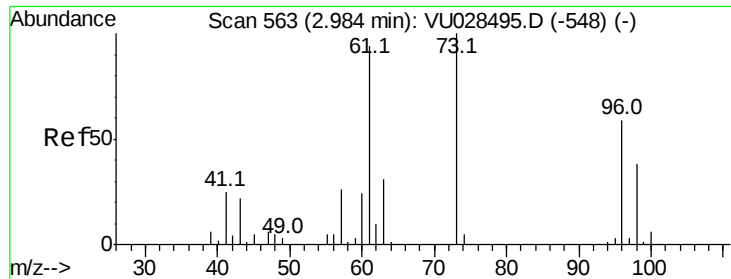
Tot Ion: 73 Resp: 90921
Ion Ratio Lower Upper
73 100
57 22.7 19.4 29.2



#20
Methylene Chloride
Concen: 19.881 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Tgt Ion: 84 Resp: 32817
Ion Ratio Lower Upper
84 100
49 118.8 114.0 171.0
51 38.1 35.1 52.7
86 63.1 51.0 76.6

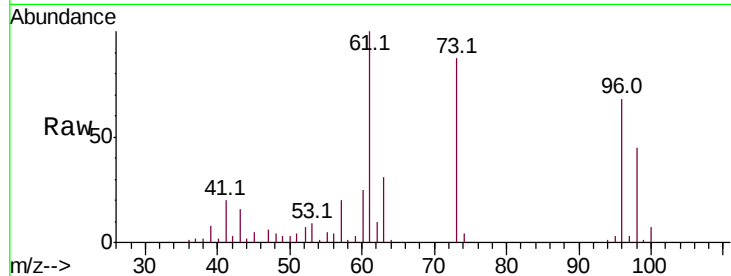




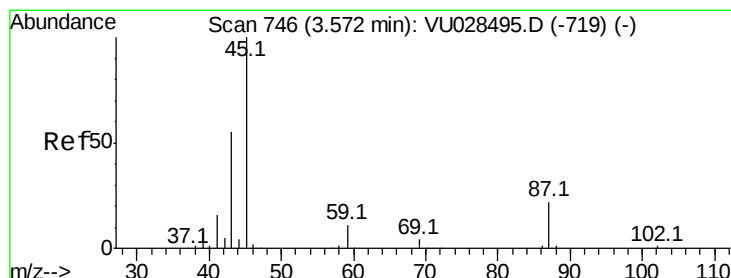
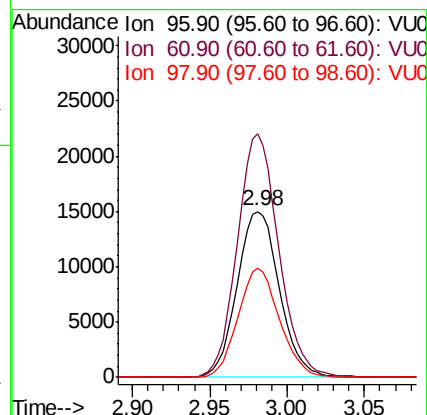
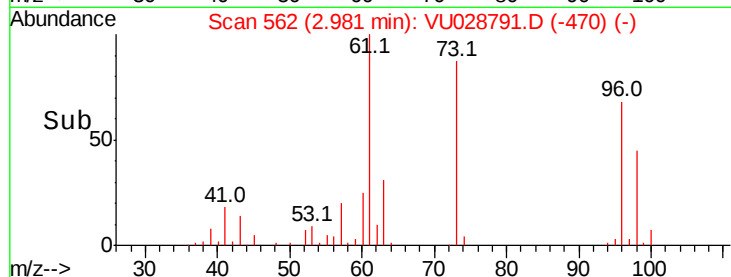
#21
trans-1,2-Dichloroethene
Concen: 20.191 ug/l
RT: 2.98 min Scan# 562
Delta R.T. -0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

Tot Ion: 96 Resp: 28460
Ion Ratio Lower Upper
96 100
61 146.7 127.0 190.4
98 65.8 51.9 77.9

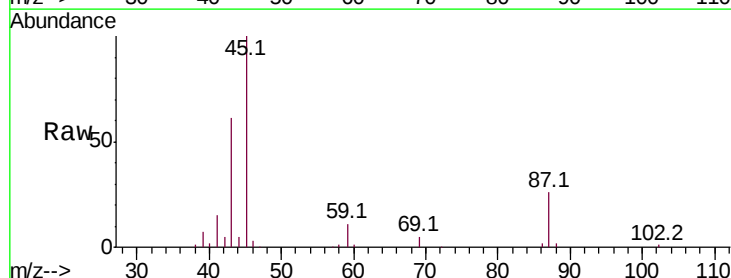


Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0

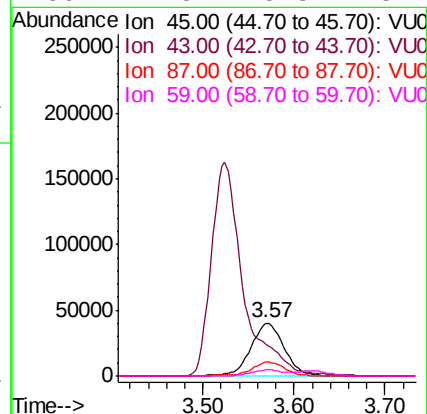
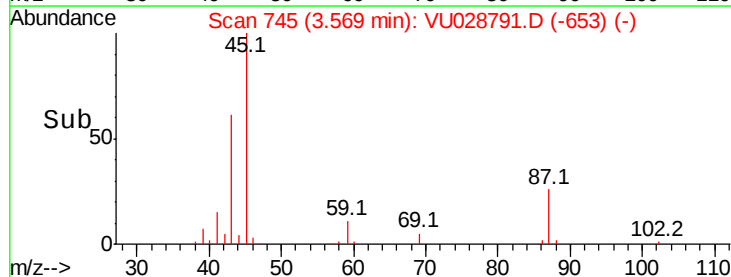


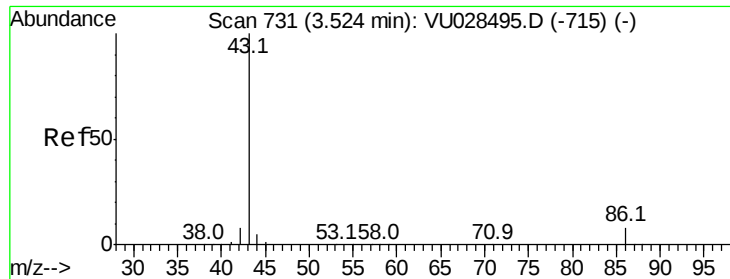
#22
Diisopropyl ether
Concen: 17.738 ug/l
RT: 3.57 min Scan# 745
Delta R.T. -0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Tgt Ion: 45 Resp: 102162
Ion Ratio Lower Upper
45 100
43 58.9 45.3 67.9
87 25.8 17.6 26.4
59 11.3 8.8 13.2



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: 83.741 ug/l

RT: 3.52 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

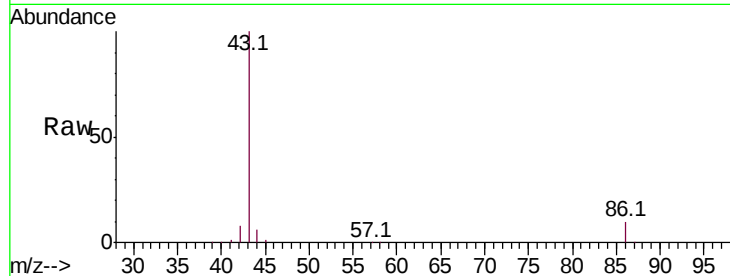
VU1219WBS01

Tot Ion: 43 Resp: 397824

Ion Ratio Lower Upper

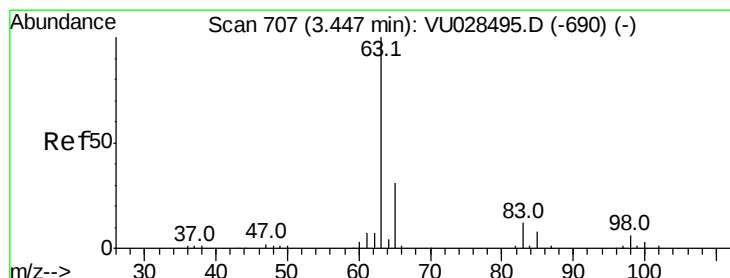
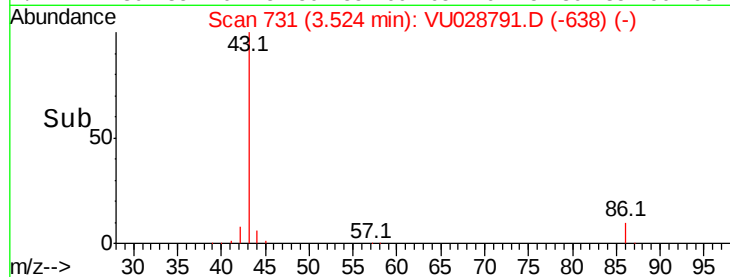
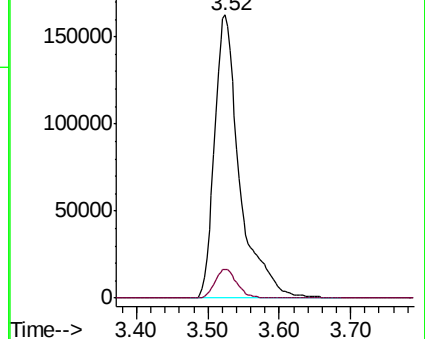
43 100

86 10.3 6.8 10.2#



Abundance Ion 43.00 (42.70 to 43.70): VU028791.D (-638) (-)

Ion 86.00 (85.70 to 86.70): VU028791.D (-638) (-)



#24

1,1-Dichloroethane

Concen: 18.926 ug/l

RT: 3.44 min Scan# 706

Delta R.T. -0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

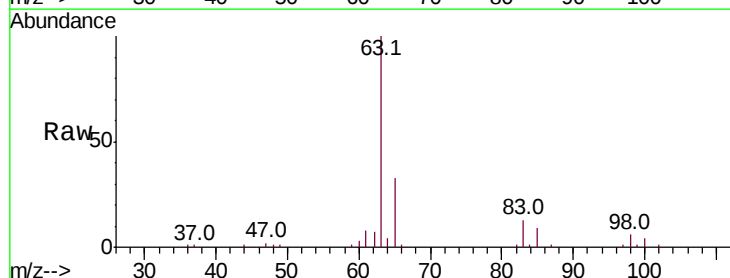
Tgt Ion: 63 Resp: 57060

Ion Ratio Lower Upper

63 100

98 6.1 3.0 9.2

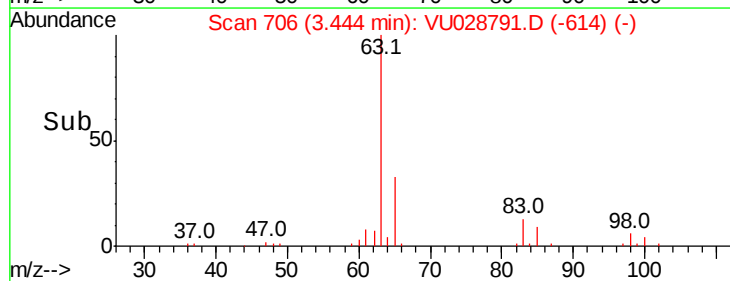
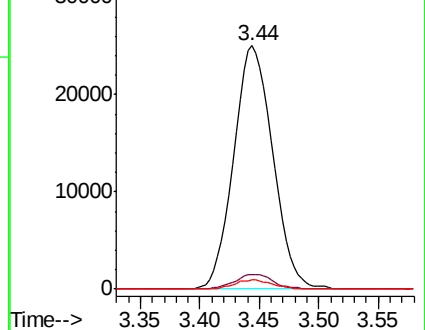
100 3.7 1.7 5.1

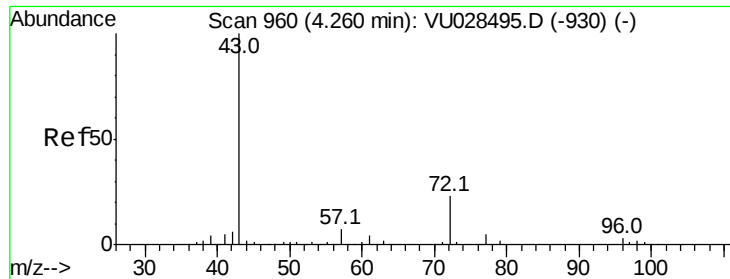


Abundance Ion 62.90 (62.60 to 63.60): VU028791.D (-614) (-)

Ion 97.90 (97.60 to 98.60): VU028791.D (-614) (-)

Ion 99.90 (99.60 to 100.60): VU028791.D (-614) (-)





#25

2-Butanone

Concen: 84.552 ug/l

RT: 4.26 min Scan# 960

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

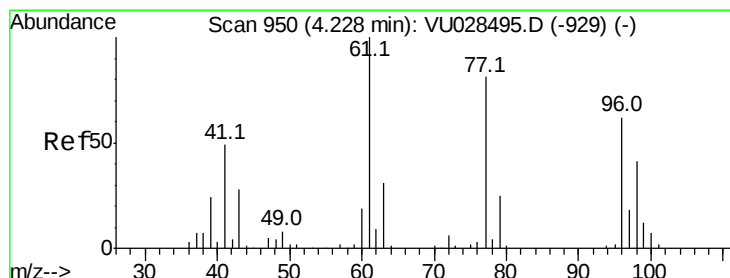
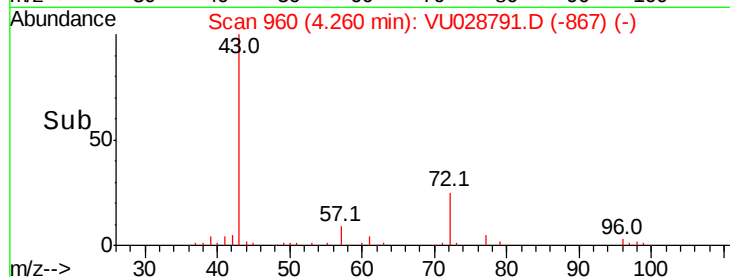
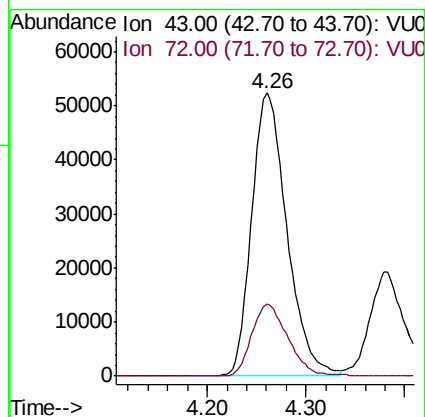
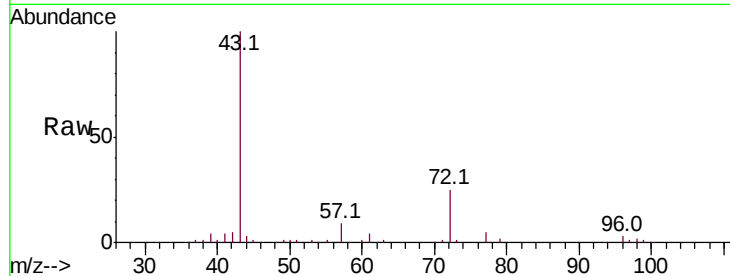
VU1219WBS01

Tot Ion: 43 Resp: 129385

Ion Ratio Lower Upper

43 100

72 25.4 18.6 28.0



#26

2,2-Dichloropropane

Concen: 17.696 ug/l

RT: 4.23 min Scan# 949

Delta R.T. -0.00 min

Lab File: VU028791.D

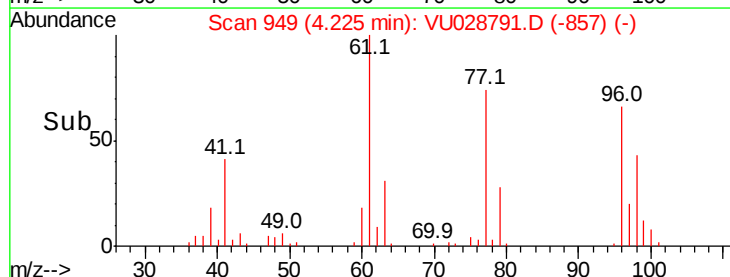
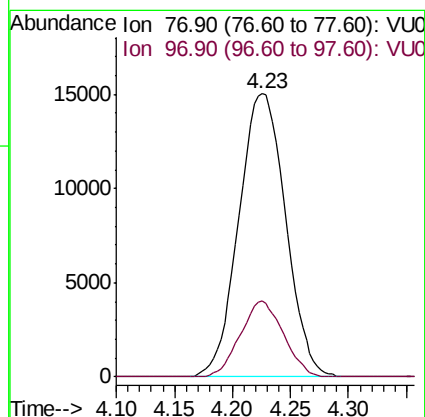
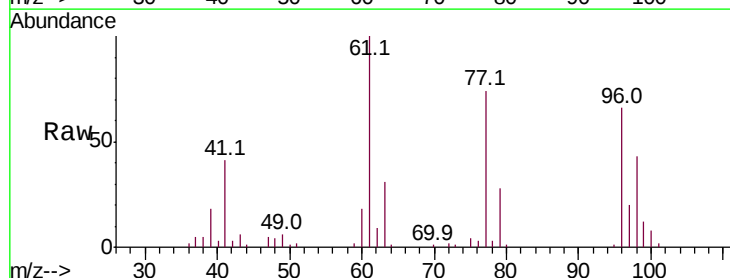
Acq: 19 Dec 2018 14:08

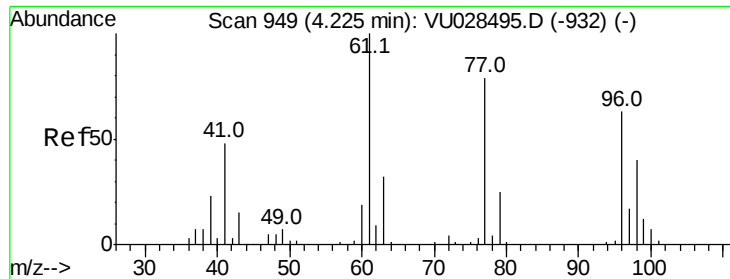
Tgt Ion: 77 Resp: 42273

Ion Ratio Lower Upper

77 100

97 24.6 11.0 33.0



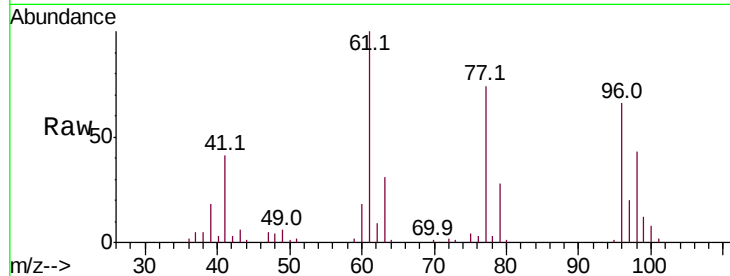


#27

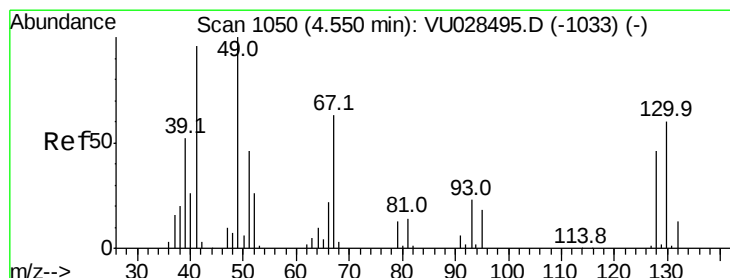
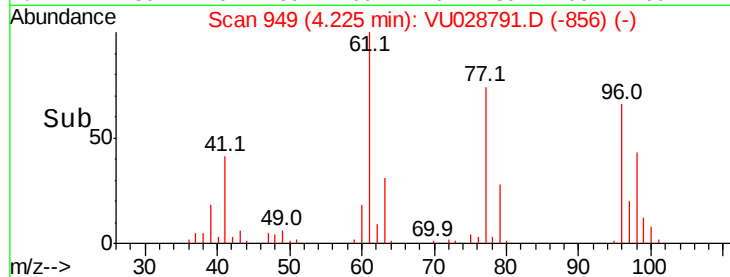
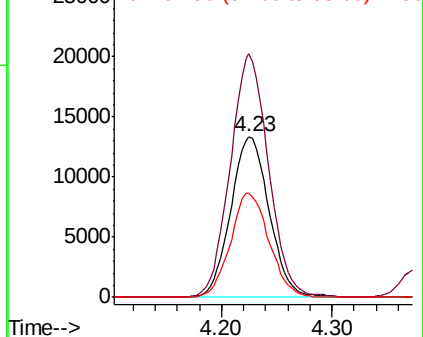
cis-1,2-Dichloroethene
Concen: 20.276 ug/l
RT: 4.23 min Scan# 949
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

Tot Ion: 96 Resp: 32349
Ion Ratio Lower Upper
96 100
61 150.1 0.0 332.4
98 64.6 0.0 129.0



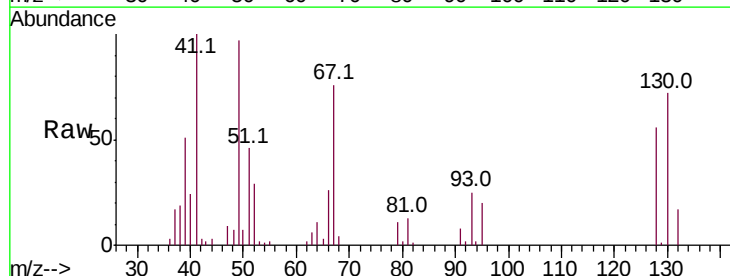
Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



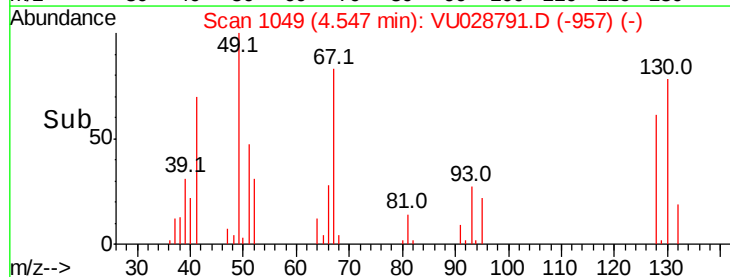
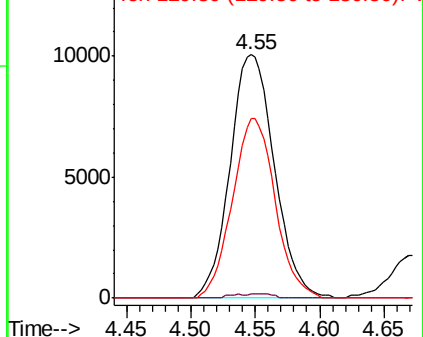
#28

Bromochloromethane
Concen: 17.574 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. -0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Tgt Ion: 49 Resp: 24086
Ion Ratio Lower Upper
49 100
129 0.7 0.0 3.0
130 71.0 47.8 71.8



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: 87.731 ug/l

RT: 4.64 min Scan# 1077

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

VU1219WBS01

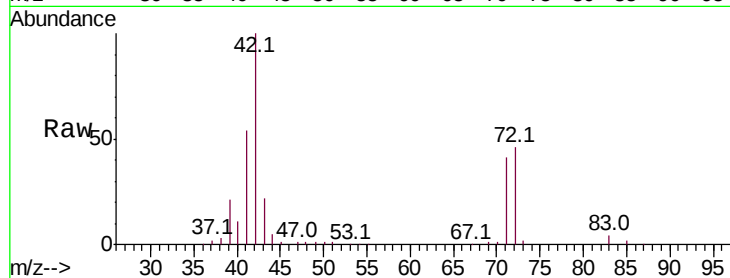
Tot Ion: 42 Resp: 86221

Ion Ratio Lower Upper

42 100

72 44.2 31.4 47.0

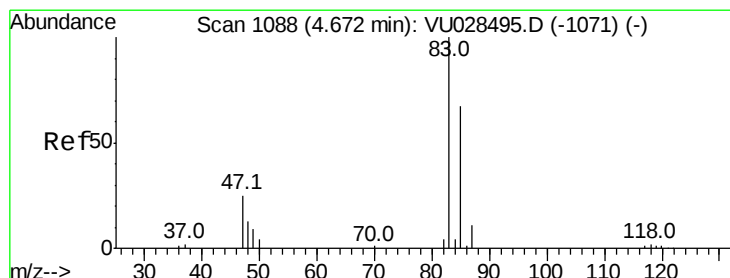
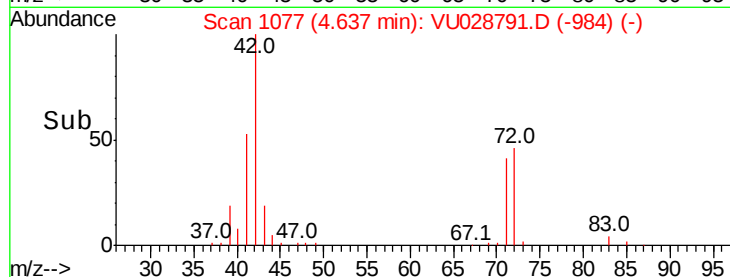
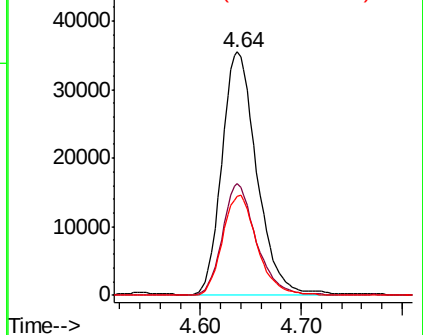
71 40.6 28.6 43.0



Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



#30

Chloroform

Concen: 19.673 ug/l

RT: 4.67 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VU028791.D

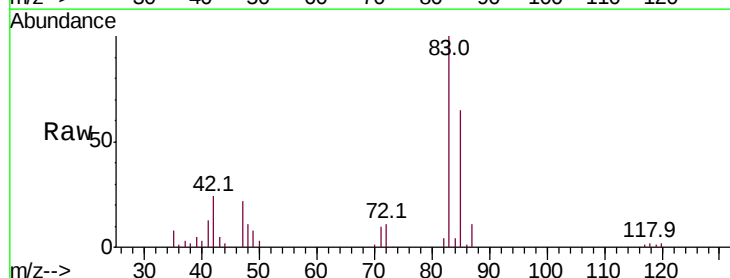
Acq: 19 Dec 2018 14:08

Tgt Ion: 83 Resp: 51693

Ion Ratio Lower Upper

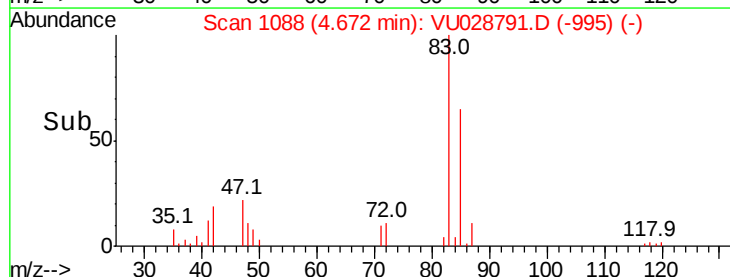
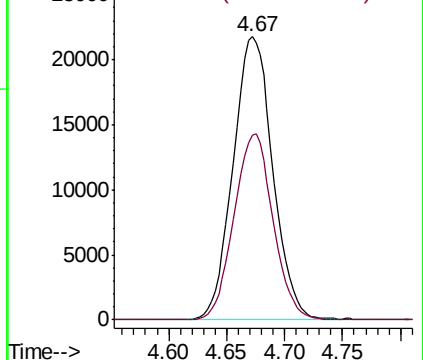
83 100

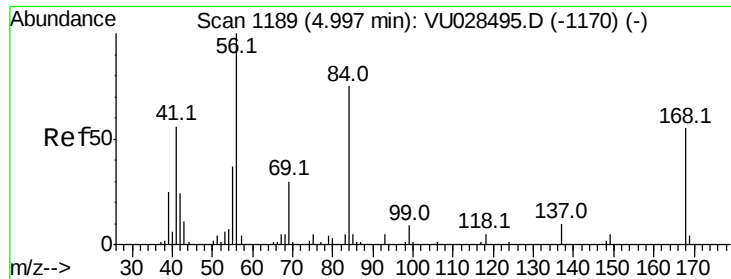
85 65.4 53.6 80.4



Abundance Ion 82.90 (82.60 to 83.60): VU0

Ion 84.90 (84.60 to 85.60): VU0

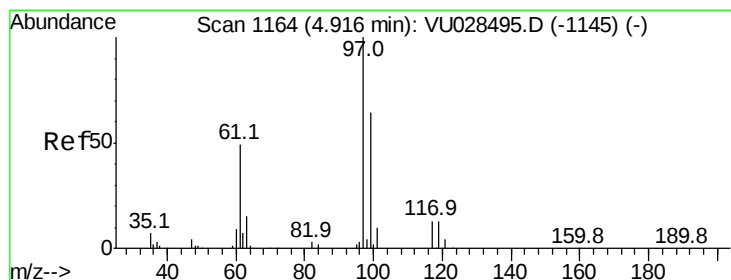
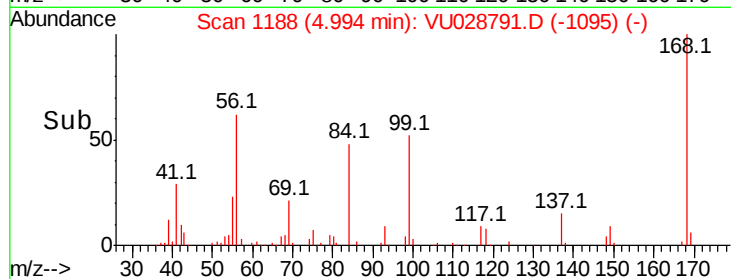
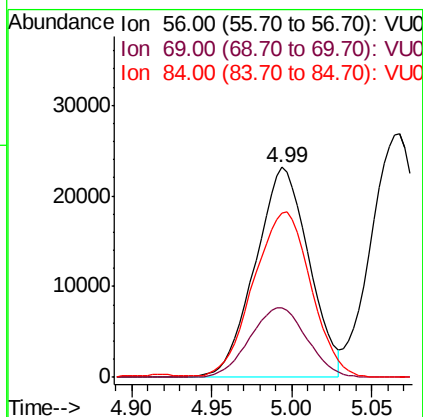
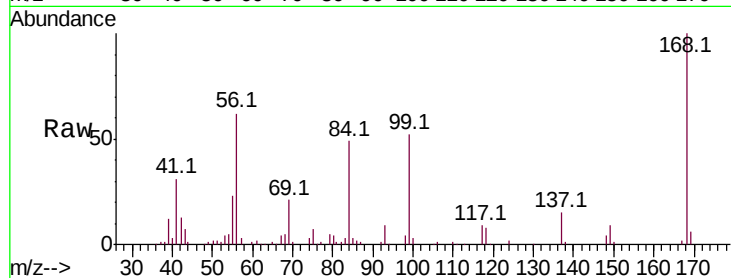




#31
Cyclohexane
Concen: 17.477 ug/l
RT: 4.99 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

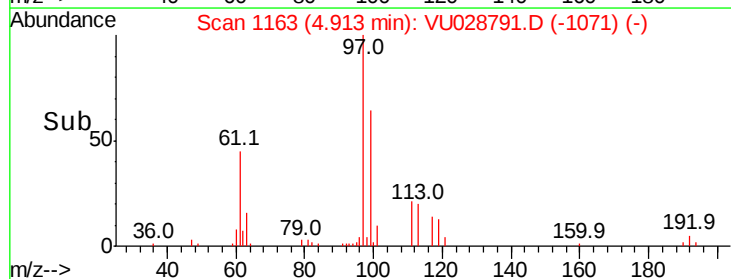
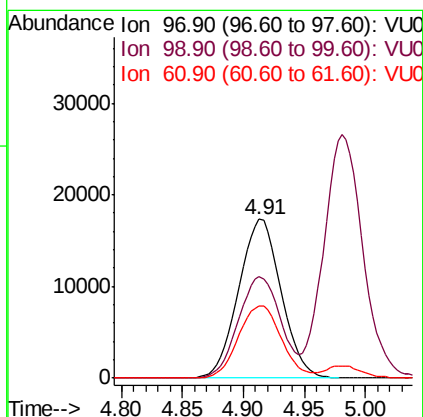
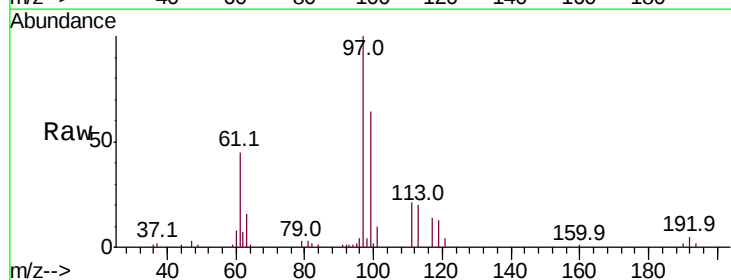
Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

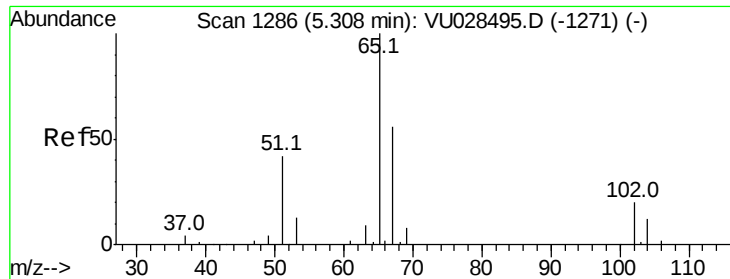
Tot Ion: 56 Resp: 53709
Ion Ratio Lower Upper
56 100
69 33.4 24.0 36.0
84 78.0 59.7 89.5



#32
1,1,1-Trichloroethane
Concen: 19.171 ug/l
RT: 4.91 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Tgt Ion: 97 Resp: 41837
Ion Ratio Lower Upper
97 100
99 63.7 52.3 78.5
61 46.0 39.0 58.6

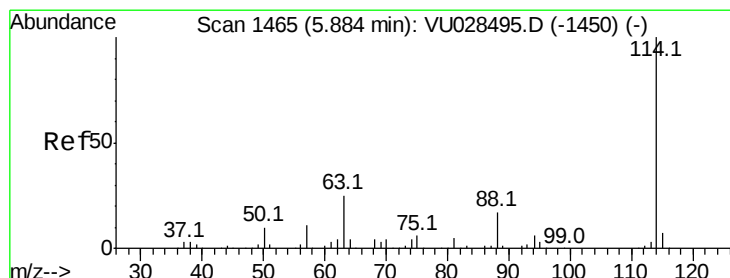
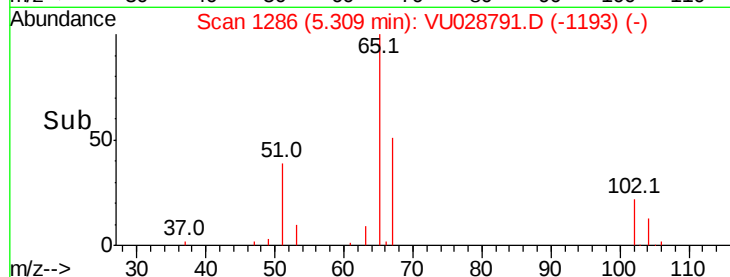
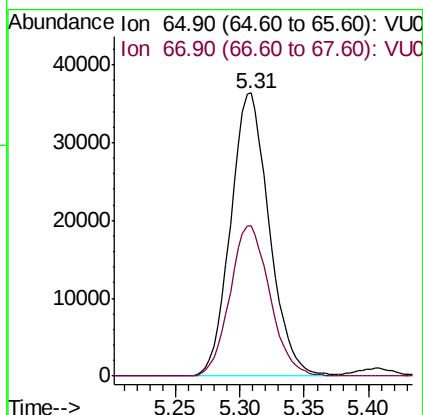
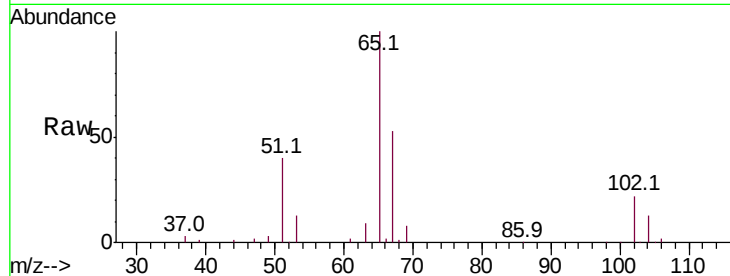




#33
 1,2-Dichloroethane-d4
 Concen: 44.127 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU028791.D
 Acq: 19 Dec 2018 14:08

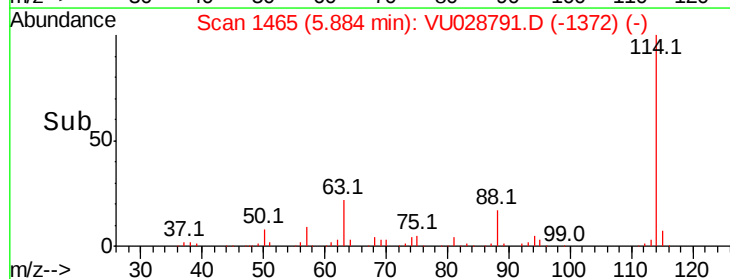
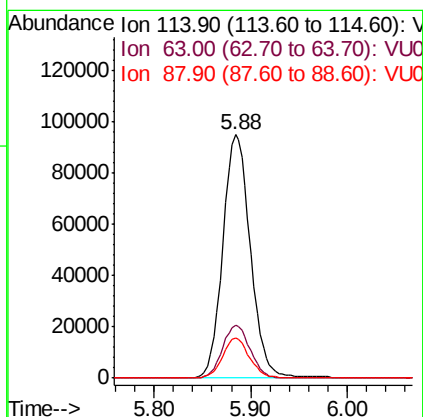
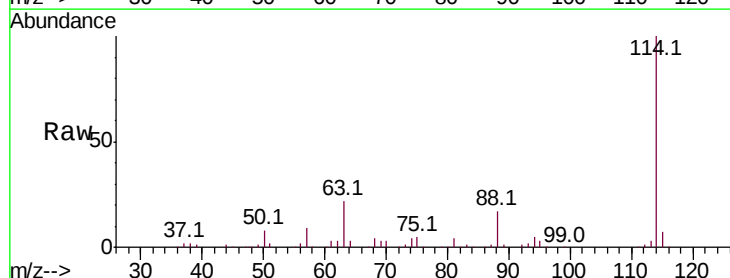
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1219WBS01

Tot Ion: 65 Resp: 75721
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU028791.D
 Acq: 19 Dec 2018 14:08

Tgt Ion: 114 Resp: 188271
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 49.2
 88 16.6 0.0 33.4

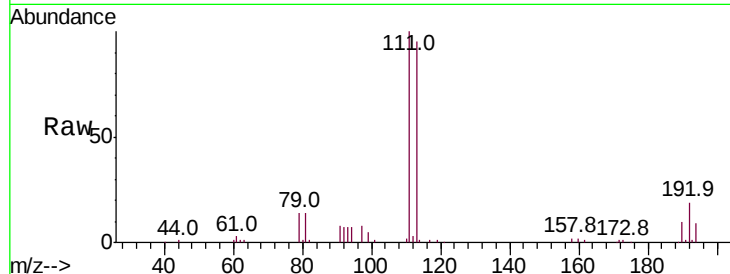




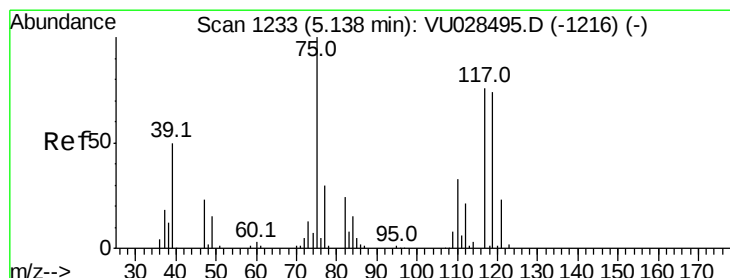
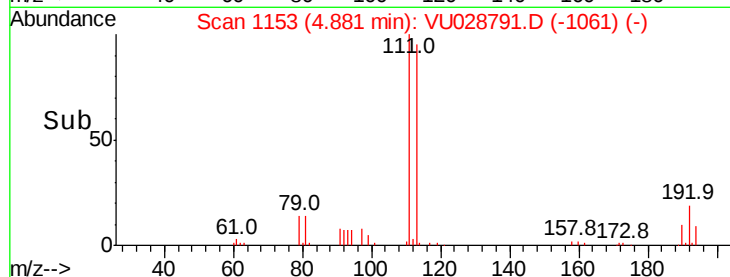
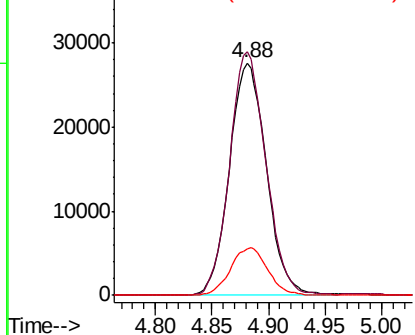
#35
 Dibromofluoromethane
 Concen: 53.074 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028791.D
 Acq: 19 Dec 2018 14:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1219WBS01

Tot Ion:113 Resp: 62882
 Ion Ratio Lower Upper
 113 100
 111 102.8 83.4 125.0
 192 20.6 14.8 22.2

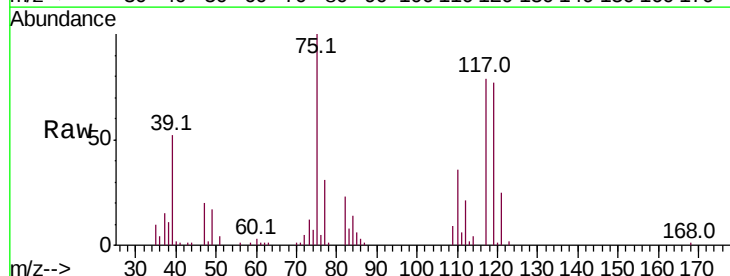


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

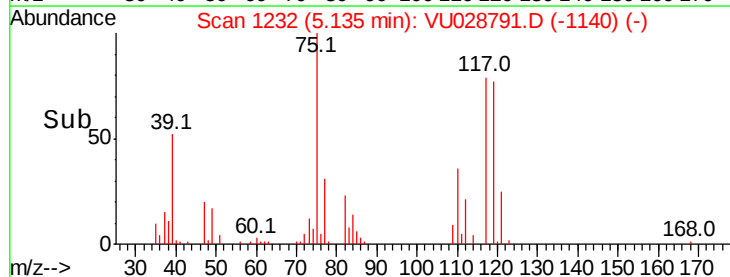
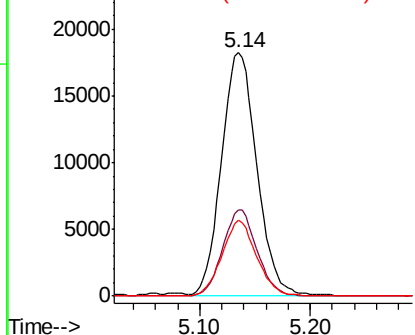


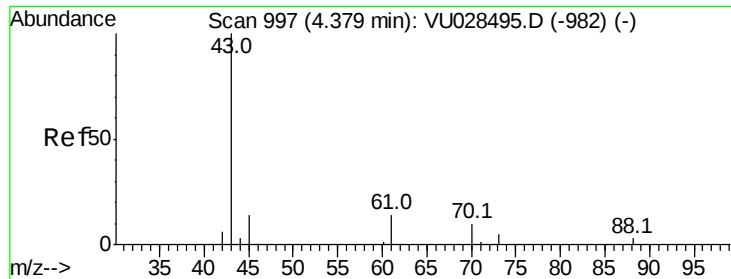
#36
 1,1-Dichloropropene
 Concen: 19.794 ug/l
 RT: 5.14 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VU028791.D
 Acq: 19 Dec 2018 14:08

Tgt Ion: 75 Resp: 40781
 Ion Ratio Lower Upper
 75 100
 110 34.1 16.1 48.2
 77 30.2 24.5 36.7



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: 17.171 ug/l

RT: 4.38 min Scan# 998

Delta R.T. 0.00 min

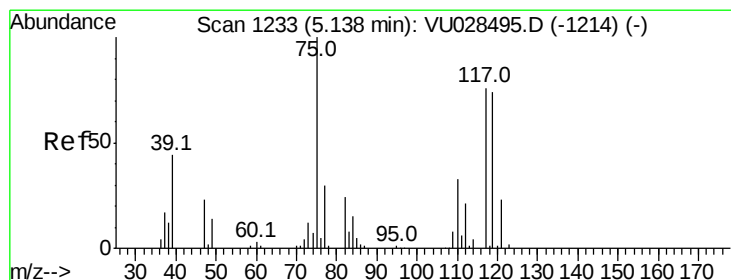
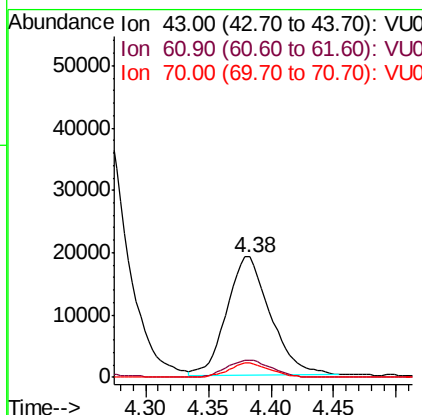
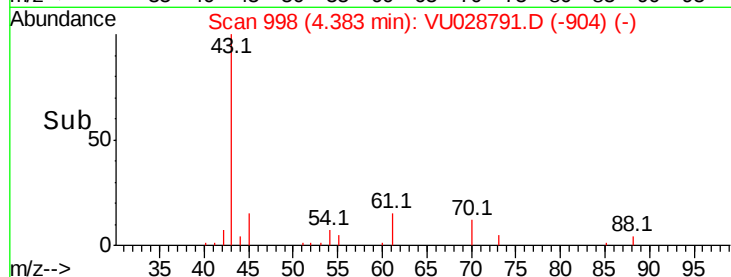
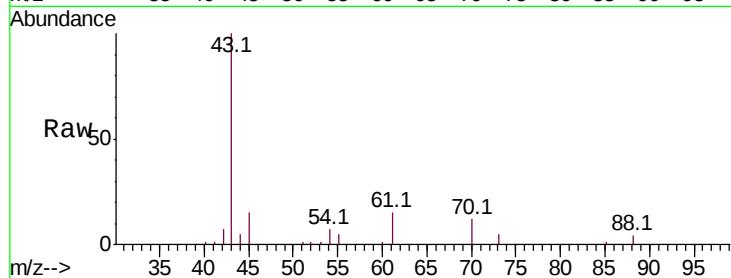
Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

Tot Ion: 43 Resp: 45731

Ion	Ratio	Lower	Upper
43	100		
61	15.3	11.0	16.4
70	11.5	7.4	11.0#



#38

Carbon Tetrachloride

Concen: 19.999 ug/l

RT: 5.14 min Scan# 1232

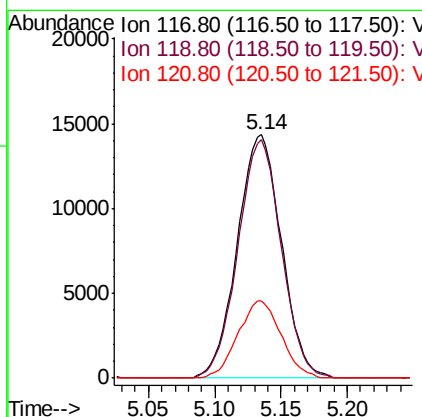
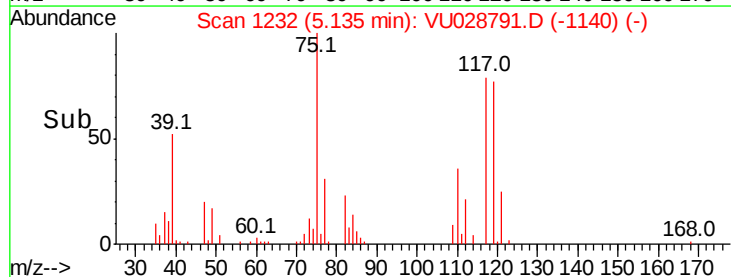
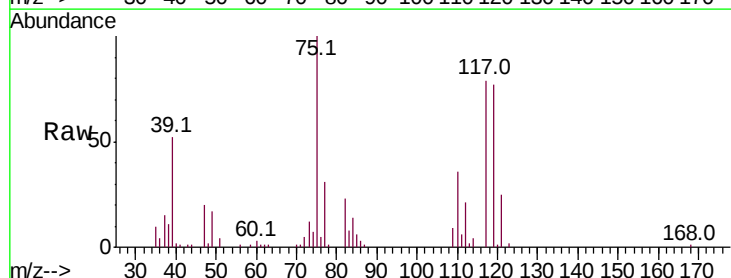
Delta R.T. -0.00 min

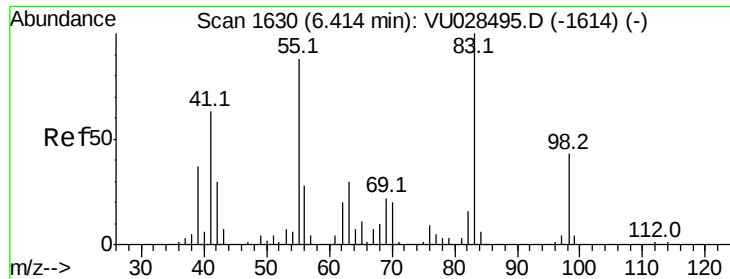
Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Tgt Ion: 117 Resp: 33209

Ion	Ratio	Lower	Upper
117	100		
119	97.8	77.6	116.4
121	31.5	24.6	36.8





#39

Methvlcvclohexane

Concen: 19.186 ug/l

RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

VU1219WBS01

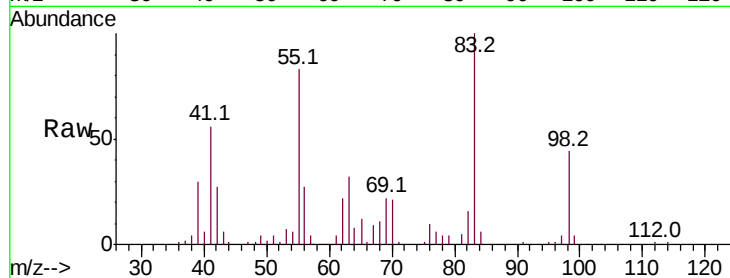
Tot Ion: 83 Resp: 48224

Ion Ratio Lower Upper

83 100

55 83.3 70.2 105.2

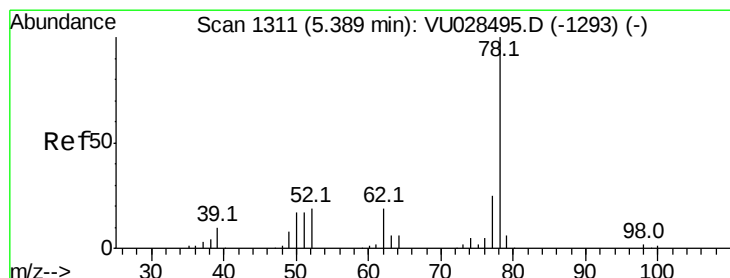
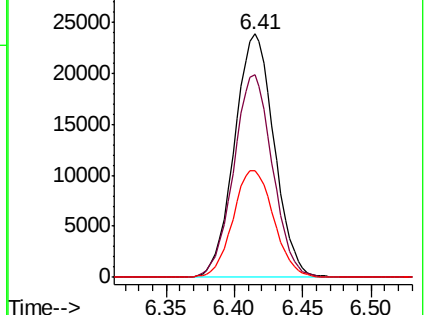
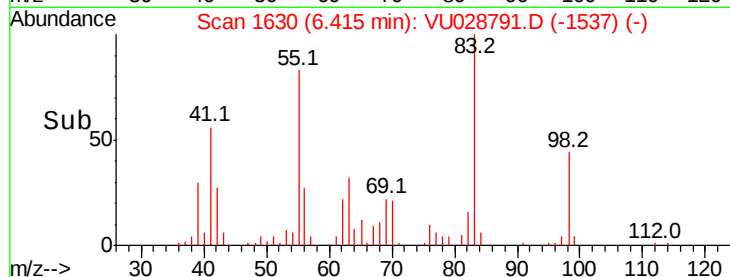
98 43.7 34.2 51.4



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#40

Benzene

Concen: 21.180 ug/l

RT: 5.39 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VU028791.D

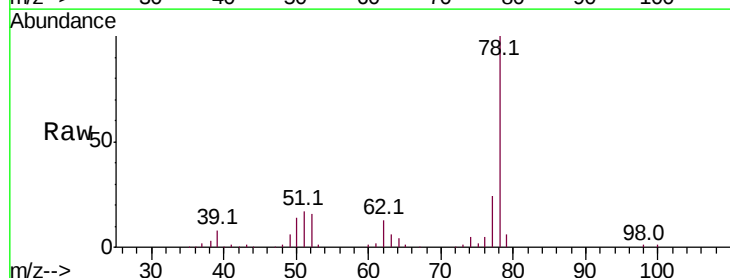
Acq: 19 Dec 2018 14:08

Tgt Ion: 78 Resp: 128514

Ion Ratio Lower Upper

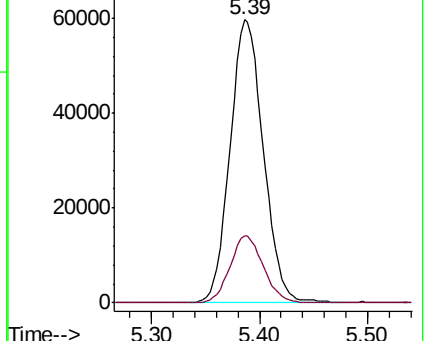
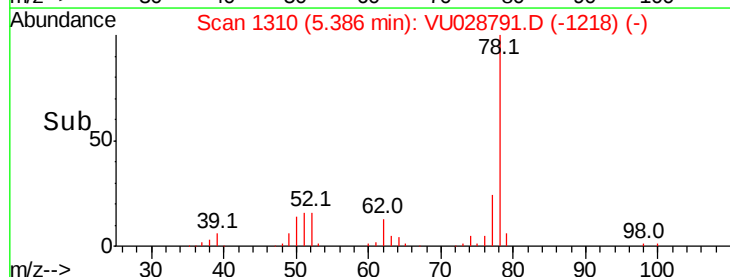
78 100

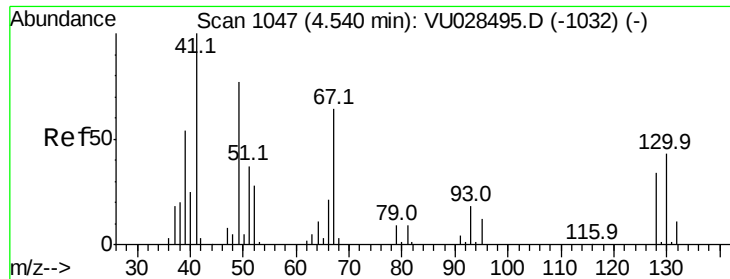
77 23.9 19.9 29.9



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

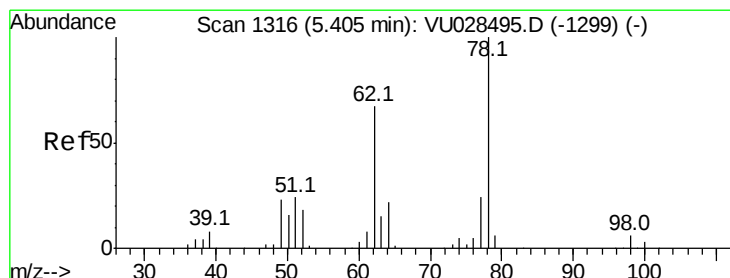
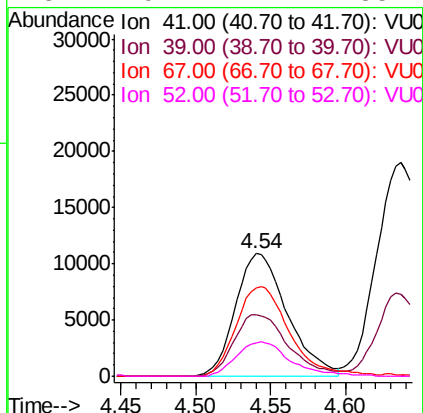
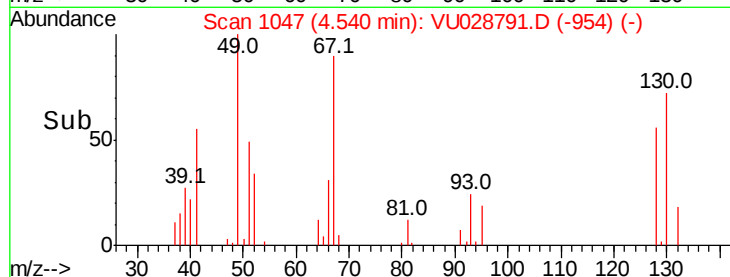
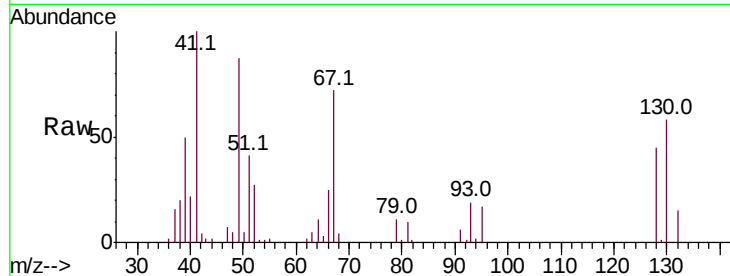




#41
Methacrylonitrile
Concen: 18.048 ug/l
RT: 4.54 min Scan# 1047
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

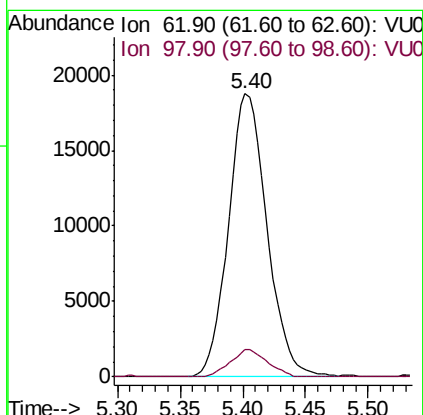
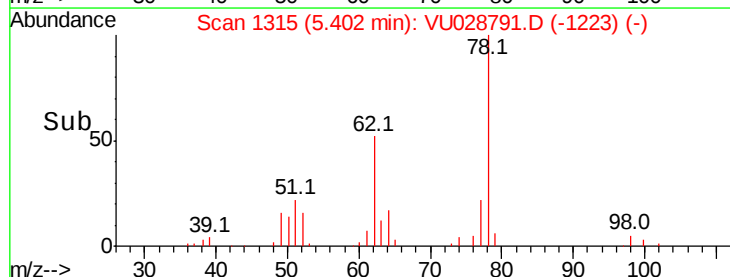
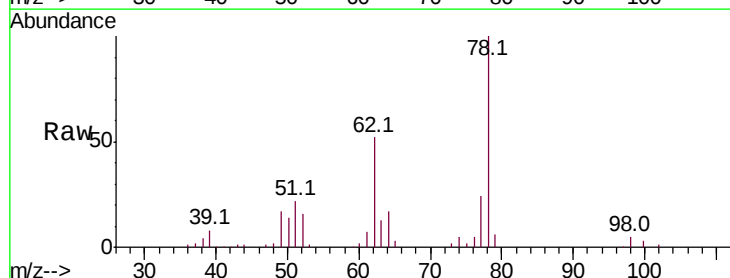
Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

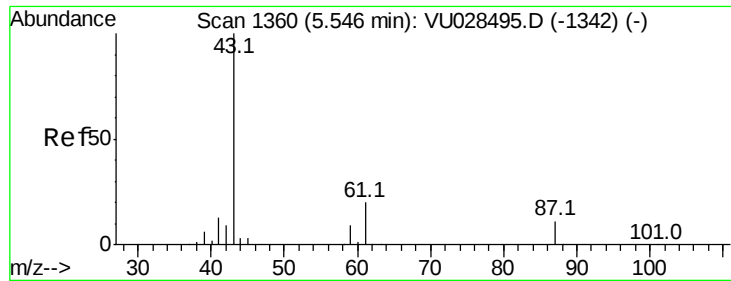
Tot Ion: 41 Resp: 26323
Ion Ratio Lower Upper
41 100
39 52.4 43.3 64.9
67 75.2 53.6 80.4
52 29.1 22.1 33.1



#42
1,2-Dichloroethane
Concen: 18.849 ug/l
RT: 5.40 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Tgt Ion: 62 Resp: 40035
Ion Ratio Lower Upper
62 100
98 9.3 0.0 17.2





#43

Isopropyl Acetate

Concen: 17.765 ug/l

RT: 5.55 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

VU1219WBS01

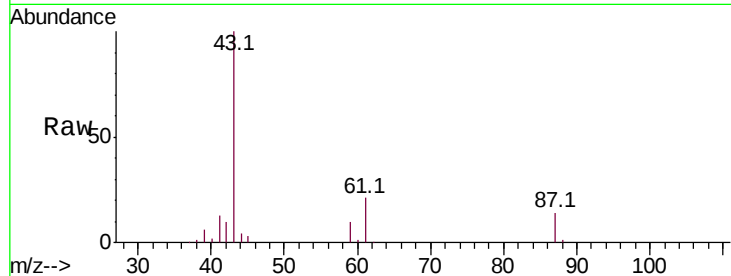
Tot Ion: 43 Resp: 74833

Ion Ratio Lower Upper

43 100

61 21.3 15.5 23.3

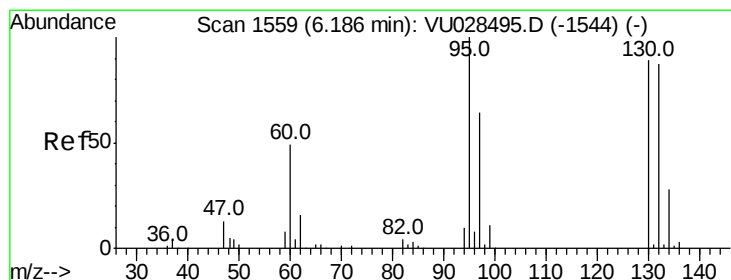
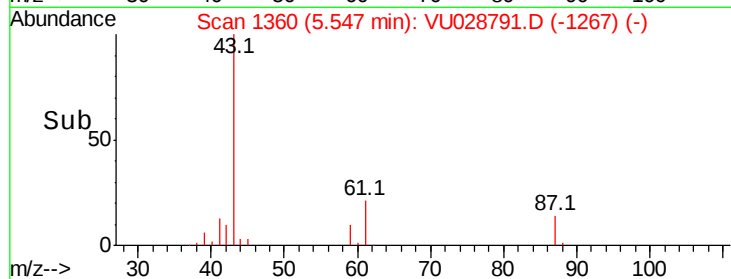
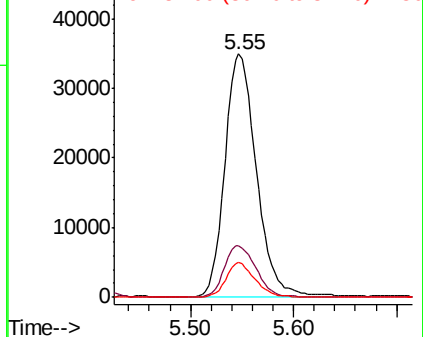
87 13.1 8.7 13.1#



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-1342) (-)

Ion 61.00 (60.70 to 61.70): VU028495.D (-1342) (-)

Ion 87.00 (86.70 to 87.70): VU028495.D (-1342) (-)



#44

Trichloroethene

Concen: 22.326 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028791.D

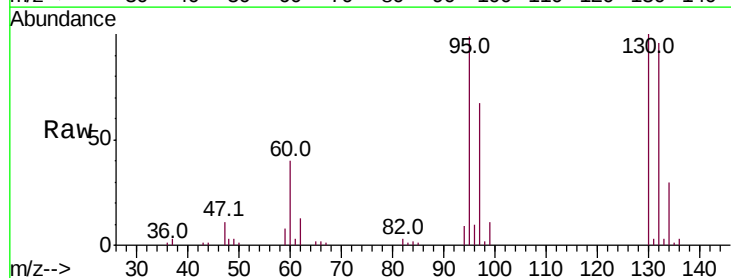
Acq: 19 Dec 2018 14:08

Tgt Ion:130 Resp: 30122

Ion Ratio Lower Upper

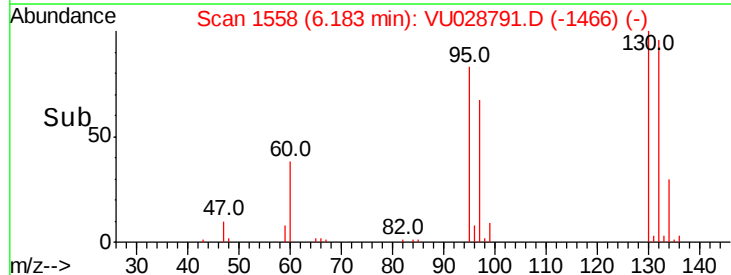
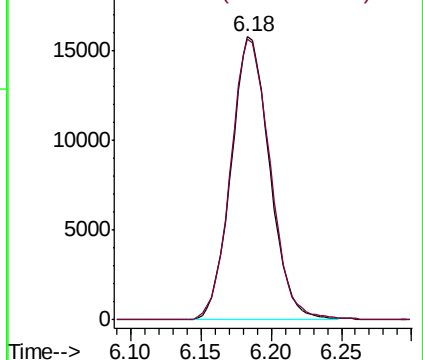
130 100

95 99.1 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): VU028495.D (-1544) (-)

Ion 94.90 (94.60 to 95.60): VU028495.D (-1544) (-)





#45

1,2-Dichloropropane

Concen: 20.857 ug/l

RT: 6.43 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

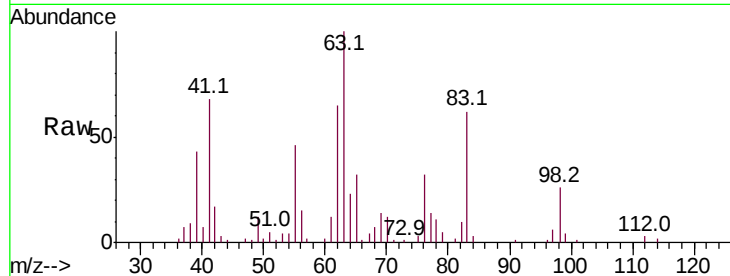
VU1219WBS01

Tot Ion: 63 Resp: 35588

Ion Ratio Lower Upper

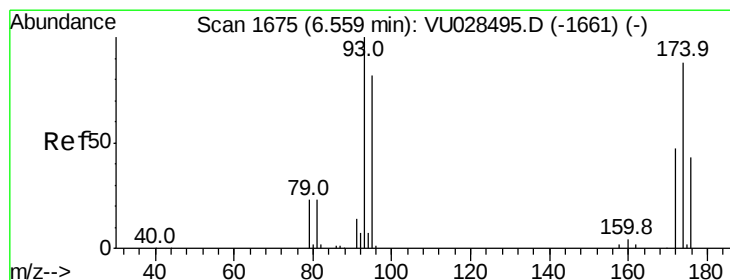
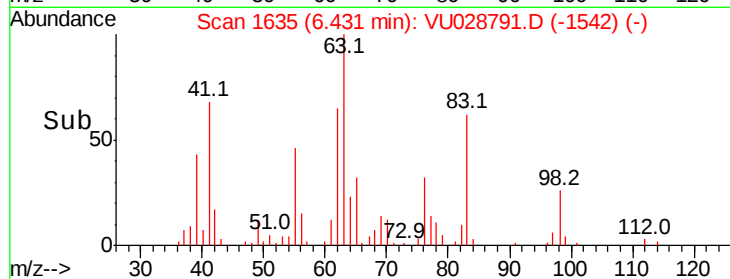
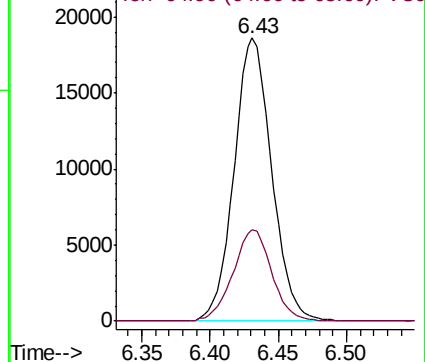
63 100

65 32.4 24.2 36.4



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



#46

Dibromomethane

Concen: 20.864 ug/l

RT: 6.56 min Scan# 1675

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

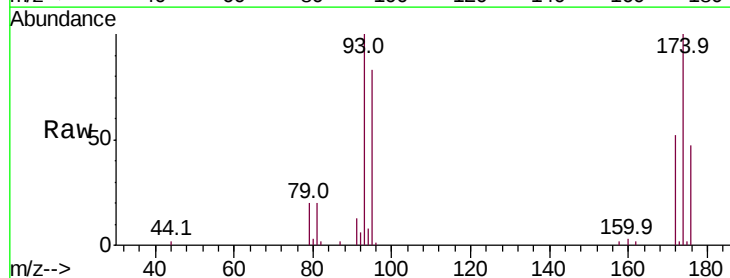
Tgt Ion: 93 Resp: 21123

Ion Ratio Lower Upper

93 100

95 85.5 65.4 98.2

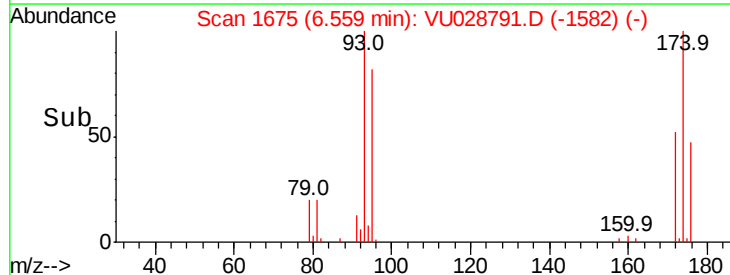
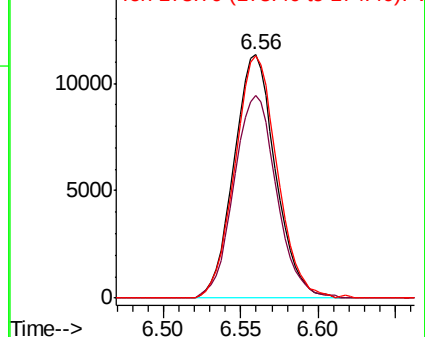
174 101.4 72.2 108.4

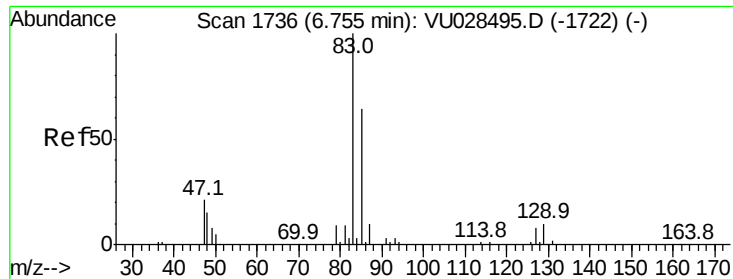


Abundance Ion 92.80 (92.50 to 93.50): VU0

Ion 94.80 (94.50 to 95.50): VU0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 20.026 ug/l

RT: 6.76 min Scan# 1736

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

VU1219WBS01

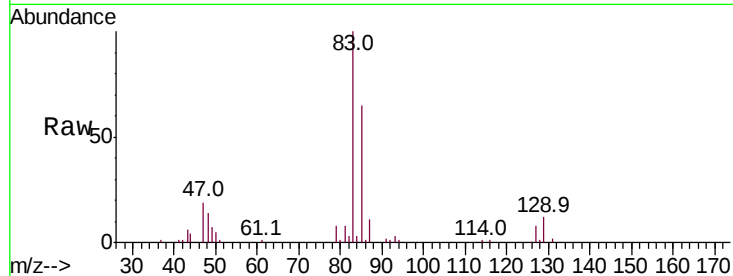
Tot Ion: 83 Resp: 39454

Ion Ratio Lower Upper

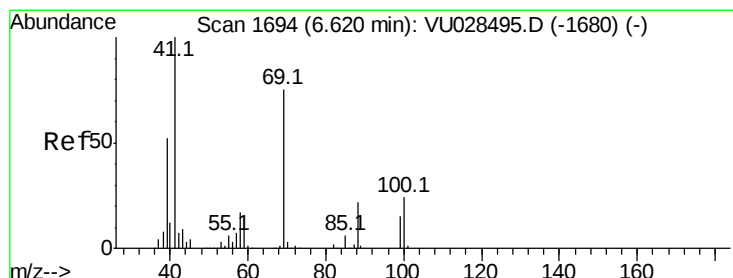
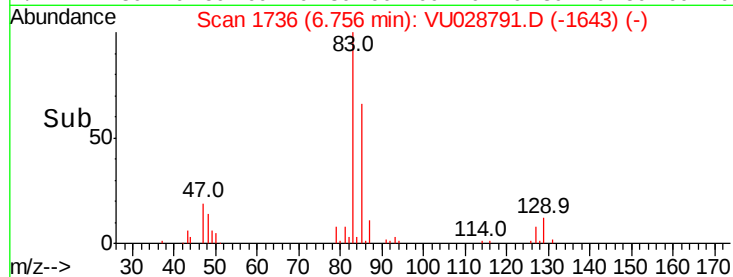
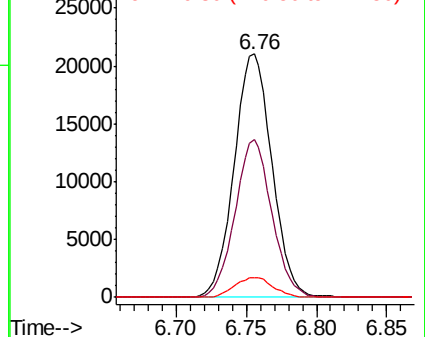
83 100

85 64.7 51.5 77.3

127 8.3 6.2 9.4



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: 17.770 ug/l

RT: 6.62 min Scan# 1694

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

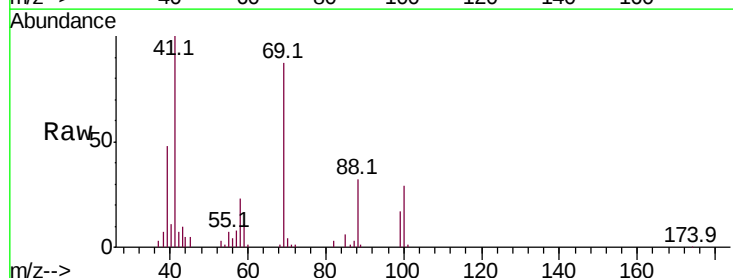
Tgt Ion: 41 Resp: 37226

Ion Ratio Lower Upper

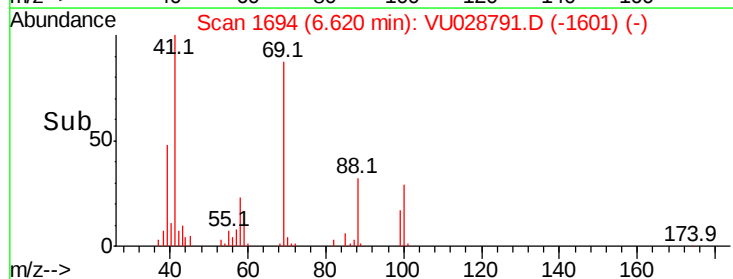
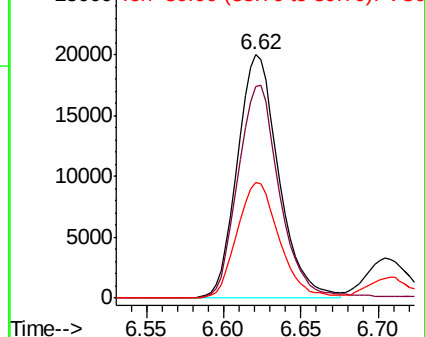
41 100

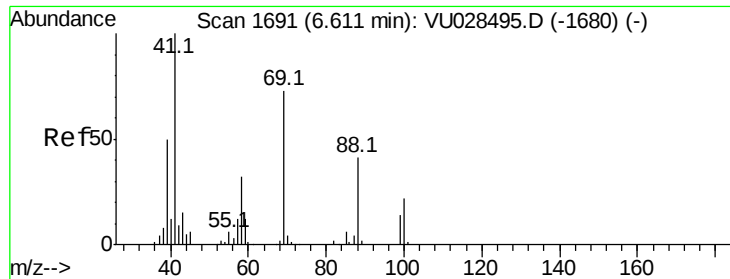
69 88.5 60.4 90.6

39 48.4 41.1 61.7



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

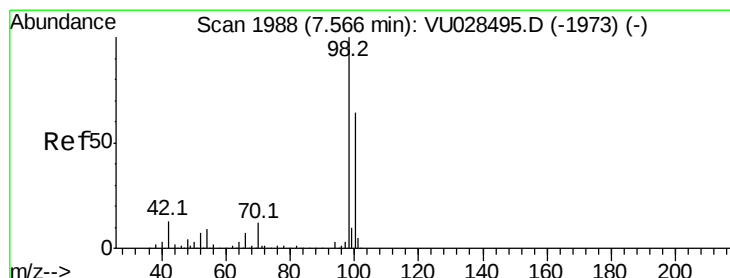
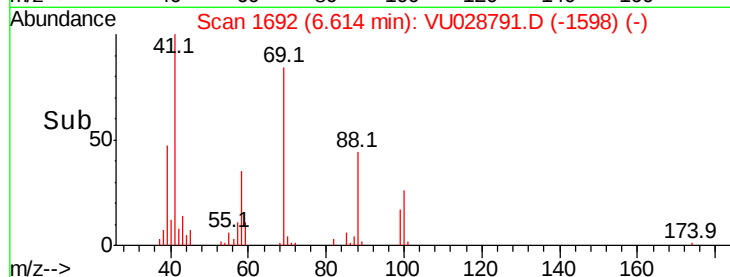
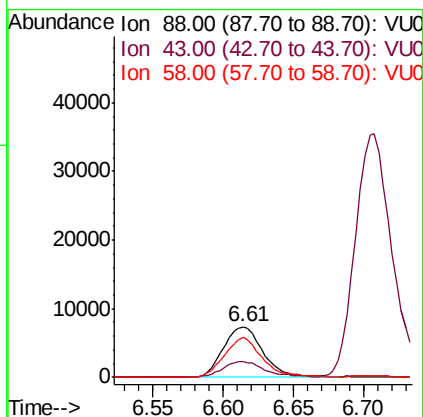
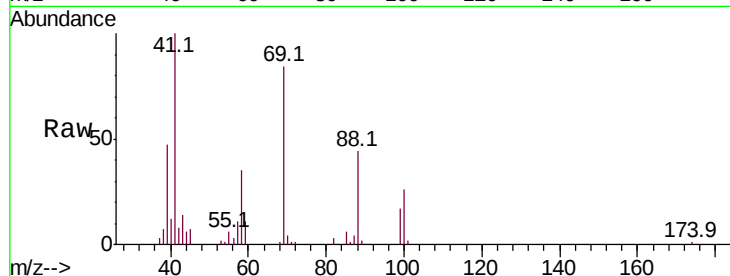




#49
1,4-Dioxane
Concen: 441.298 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

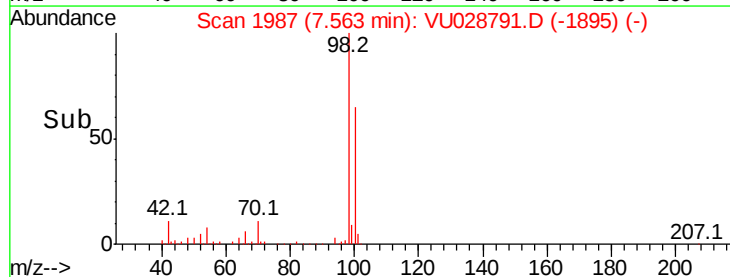
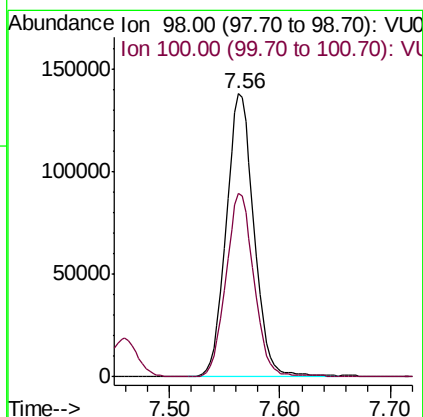
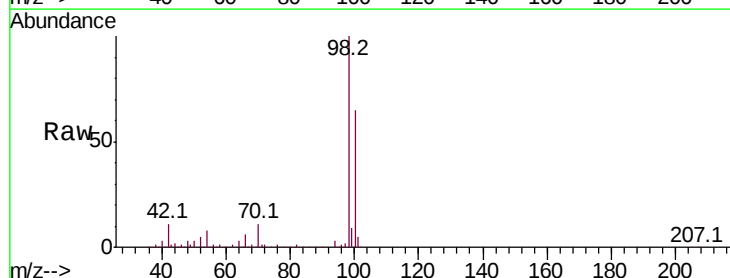
Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

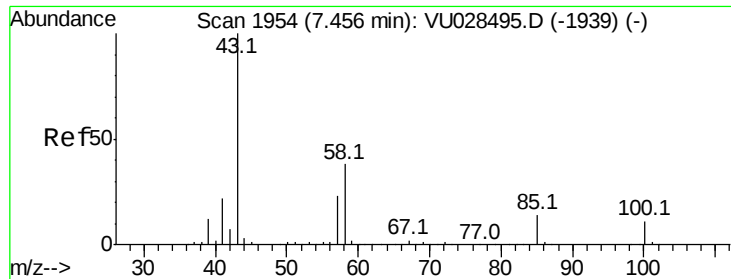
Tot Ion: 88 Resp: 14597
Ion Ratio Lower Upper
88 100
43 32.9 30.9 46.3
58 74.3 62.4 93.6



#50
Toluene-d8
Concen: 51.539 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Tgt Ion: 98 Resp: 241556
Ion Ratio Lower Upper
98 100
100 64.5 51.0 76.6





#51

4-Methyl-2-Pentanone

Concen: 89.491 ug/l

RT: 7.46 min Scan# 1954

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

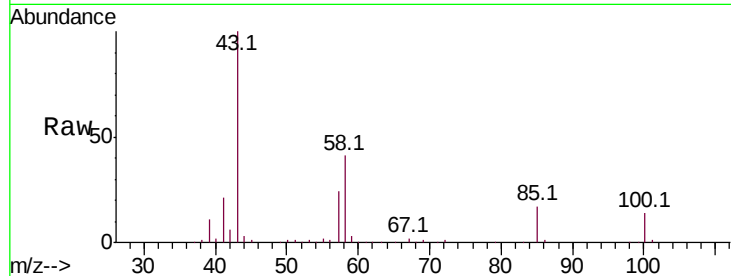
VU1219WBS01

Tot Ion: 43 Resp: 237766

Ion Ratio Lower Upper

43 100

58 41.1 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-1939) (-)

7.46

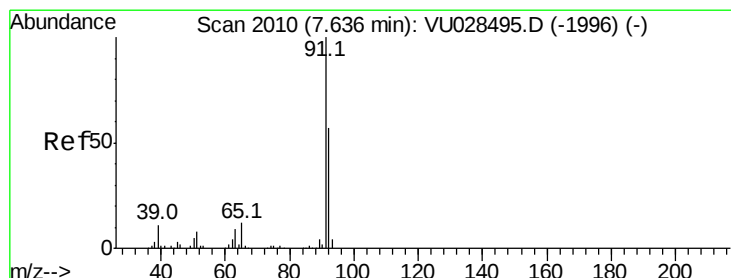
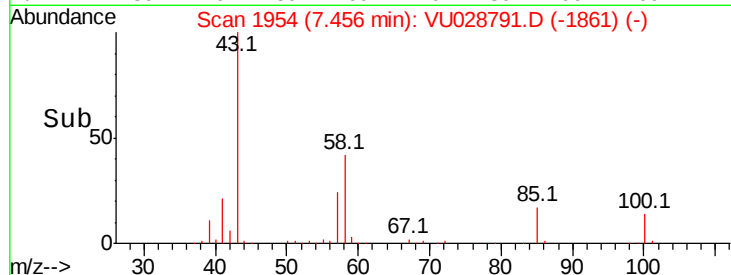
150000

100000

50000

0

Time--> 7.35 7.40 7.45 7.50 7.55



#52

Toluene

Concen: 21.348 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028791.D

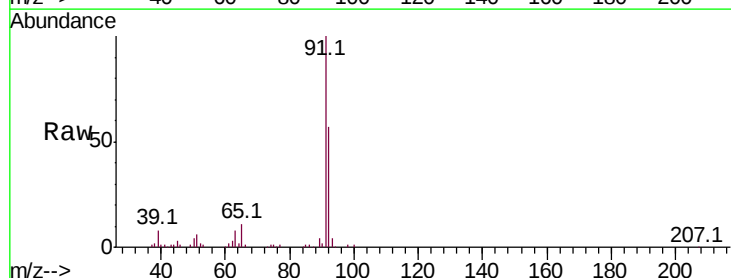
Acq: 19 Dec 2018 14:08

Tgt Ion: 92 Resp: 76236

Ion Ratio Lower Upper

92 100

91 173.6 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VU028495.D (-1996) (-)

Ion 91.00 (90.70 to 91.70): VU028495.D (-1996) (-)

7.64

80000

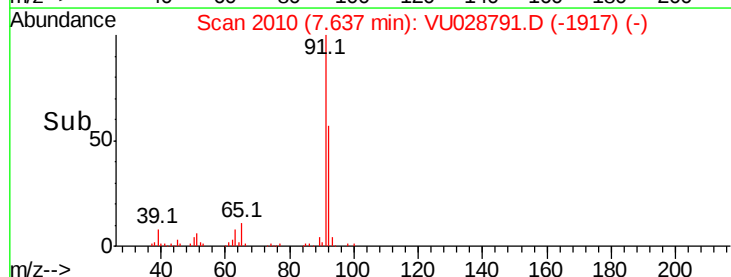
60000

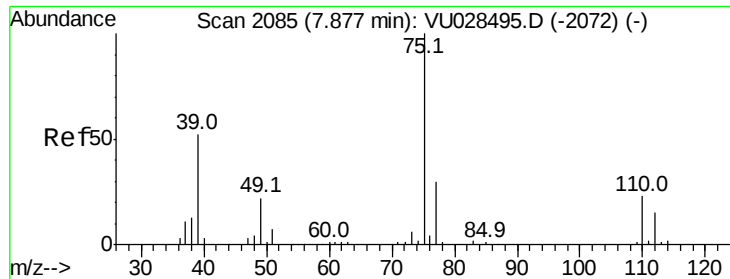
40000

20000

0

Time--> 7.55 7.60 7.65 7.70 7.75





#53

t-1,3-Dichloropropene

Concen: 19.574 ug/l

RT: 7.88 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

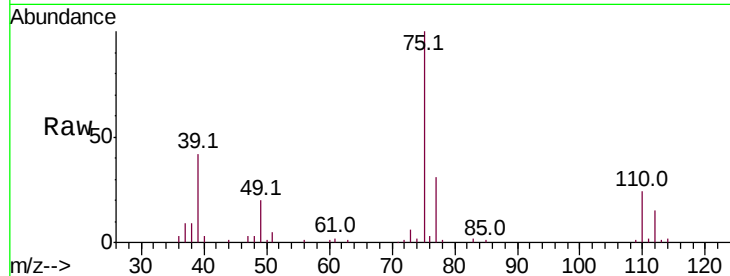
VU1219WBS01

Tot Ion: 75 Resp: 45927

Ion Ratio Lower Upper

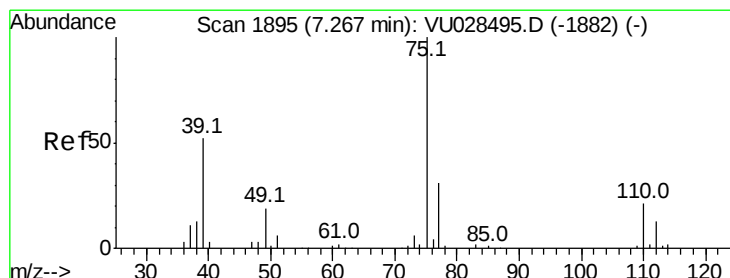
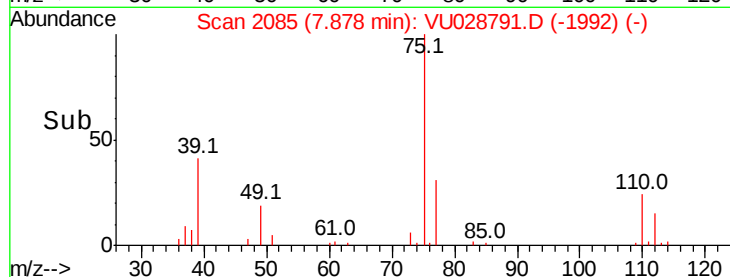
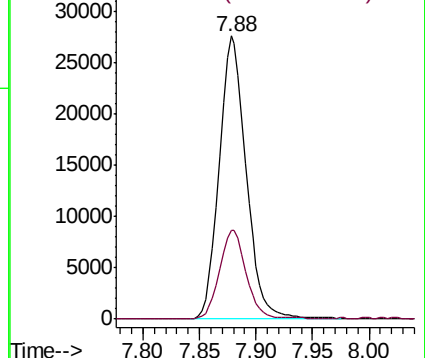
75 100

77 31.3 24.2 36.4



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: 19.882 ug/l

RT: 7.27 min Scan# 1895

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

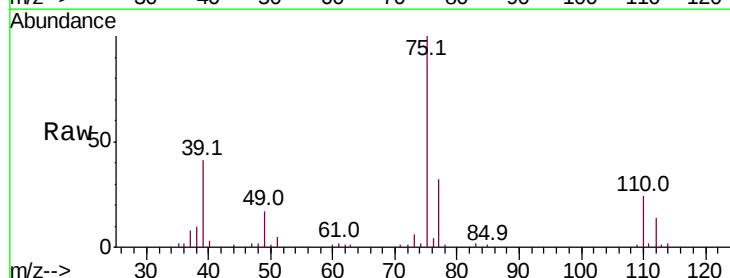
Tgt Ion: 75 Resp: 50611

Ion Ratio Lower Upper

75 100

77 31.9 25.0 37.4

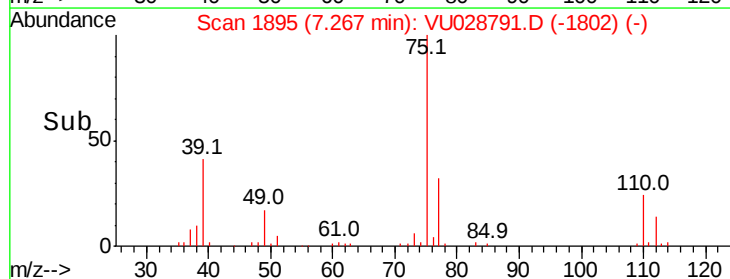
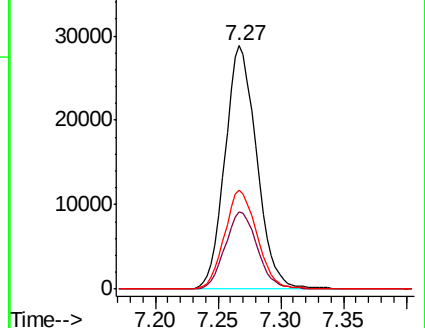
39 40.8 41.3 61.9#



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: 22.168 ug/l

RT: 8.06 min Scan# 2143

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

VU1219WBS01

Tot Ion: 97 Resp: 31292

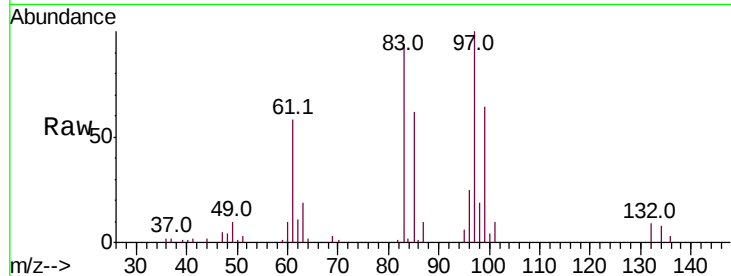
Ion Ratio Lower Upper

97 100

83 94.5 72.4 108.6

85 61.8 46.0 69.0

99 63.7 47.4 71.2



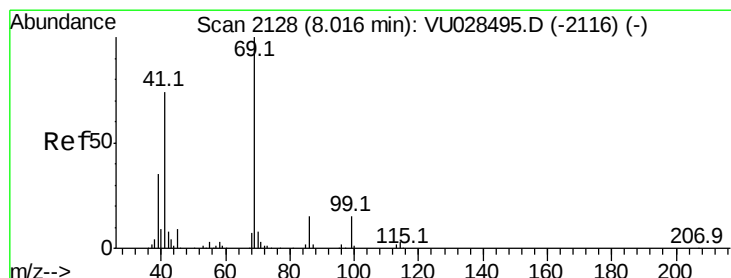
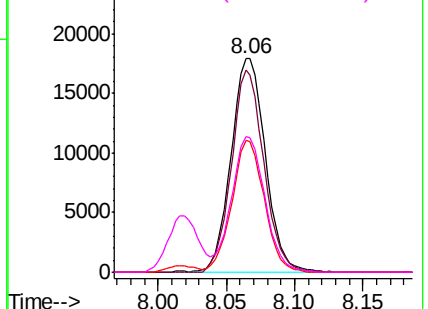
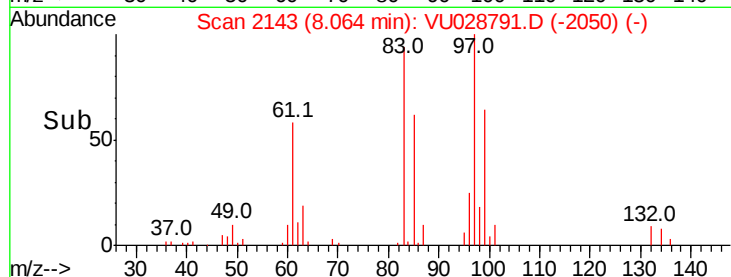
Abundance

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: 19.772 ug/l

RT: 8.02 min Scan# 2128

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

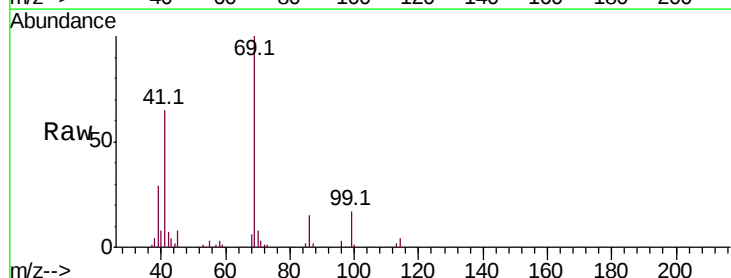
Tgt Ion: 69 Resp: 47796

Ion Ratio Lower Upper

69 100

41 64.3 59.1 88.7

39 29.2 28.4 42.6

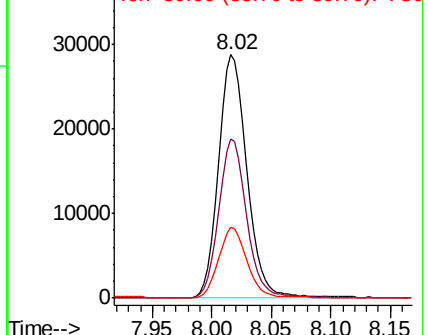
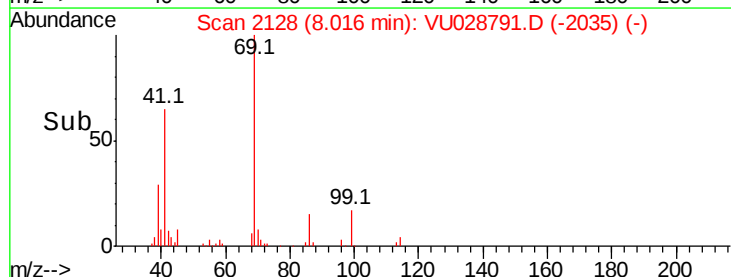


Abundance

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: 20.708 ug/l

RT: 8.24 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

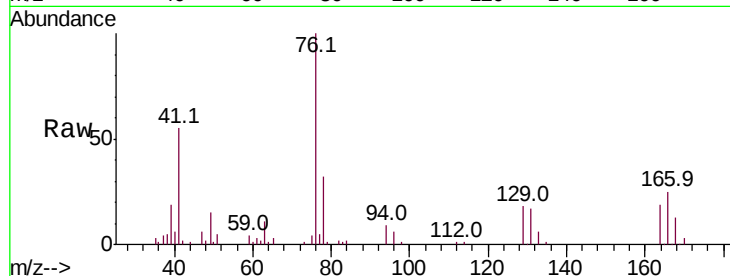
VU1219WBS01

Tot Ion: 76 Resp: 54262

Ion Ratio Lower Upper

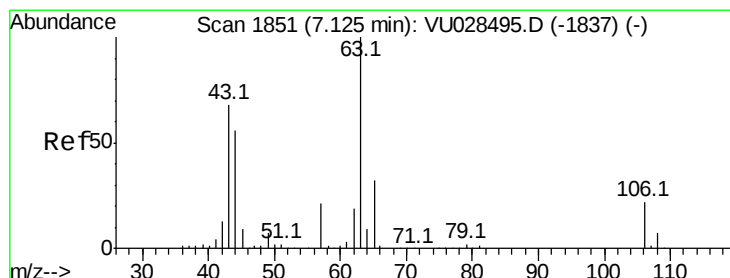
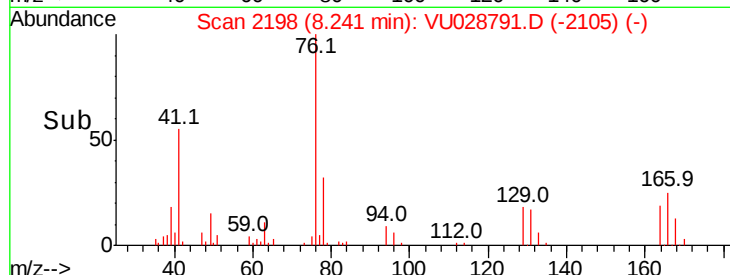
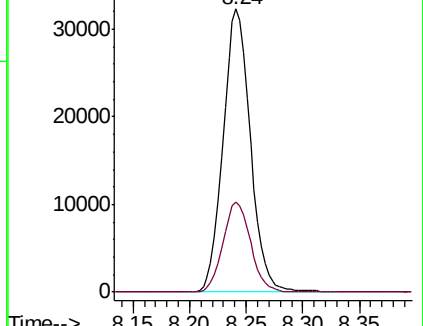
76 100

78 32.3 25.2 37.8



Abundance Ion 75.90 (75.60 to 76.60): VU028495.D (-2184) (-)

Ion 77.90 (77.60 to 78.60): VU028495.D (-2184) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 89.813 ug/l

RT: 7.13 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VU028791.D

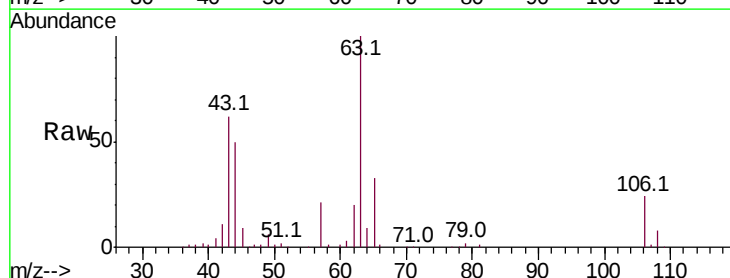
Acq: 19 Dec 2018 14:08

Tgt Ion: 63 Resp: 111202

Ion Ratio Lower Upper

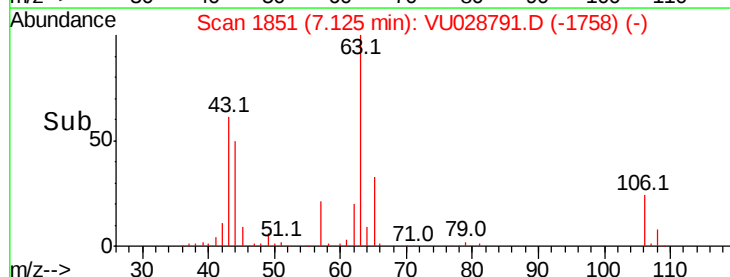
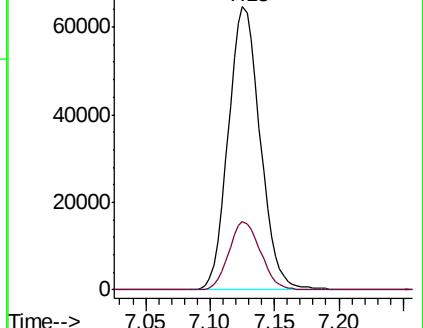
63 100

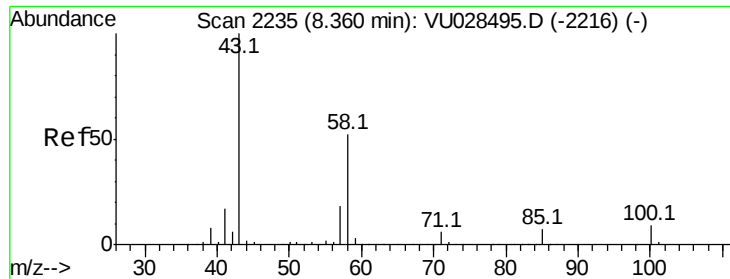
106 24.0 17.8 26.6



Abundance Ion 62.90 (62.60 to 63.60): VU028495.D (-1837) (-)

Ion 105.90 (105.60 to 106.60): VU028495.D (-1837) (-)

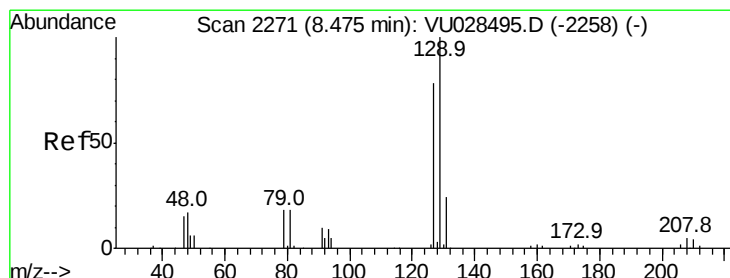
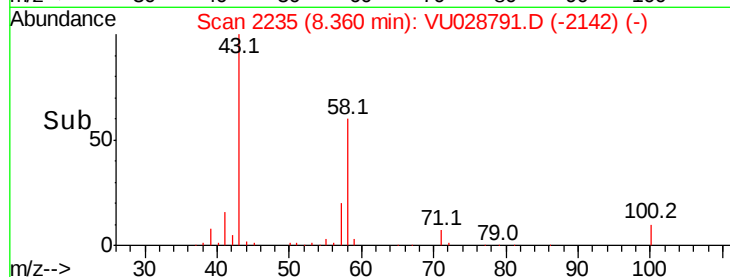
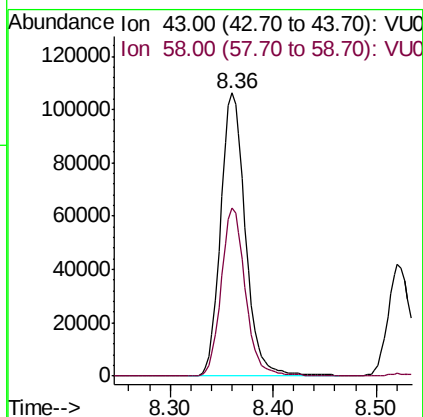
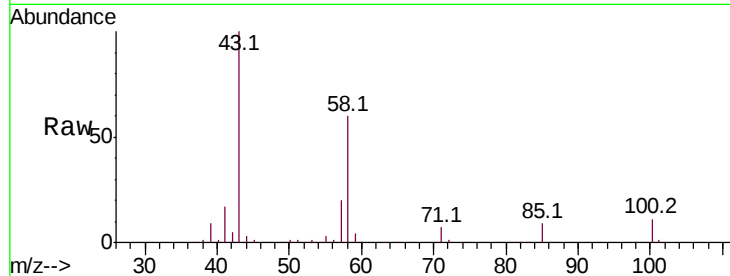




#59
2-Hexanone
Concen: 84.564 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

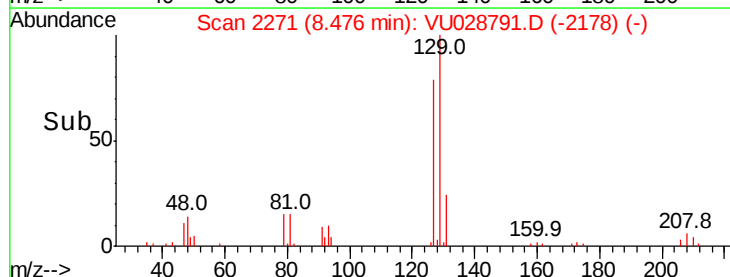
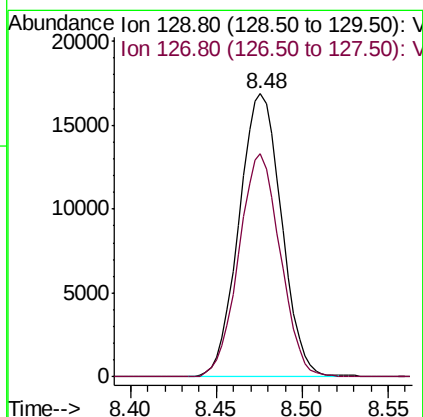
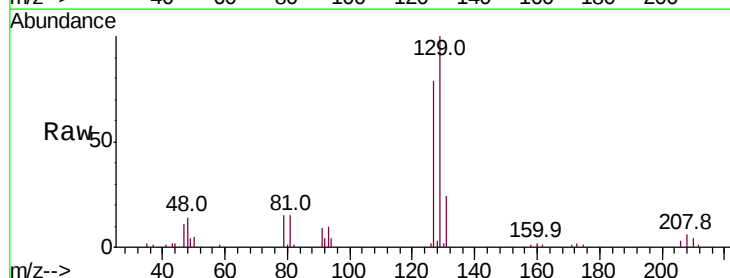
Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

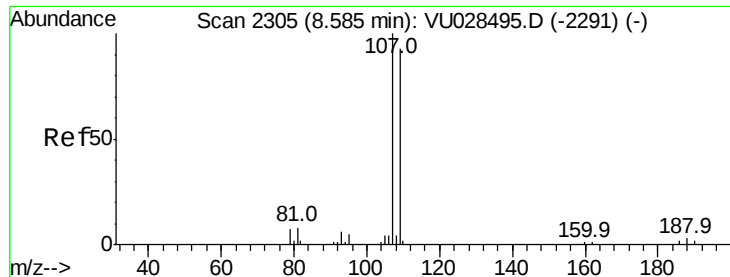
Tot Ion: 43 Resp: 178079
Ion Ratio Lower Upper
43 100
58 57.9 25.9 77.6



#60
Dibromochloromethane
Concen: 20.918 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Tgt Ion: 129 Resp: 28910
Ion Ratio Lower Upper
129 100
127 76.9 39.1 117.3





#61

1,2-Dibromoethane

Concen: 21.969 ug/l

RT: 8.59 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

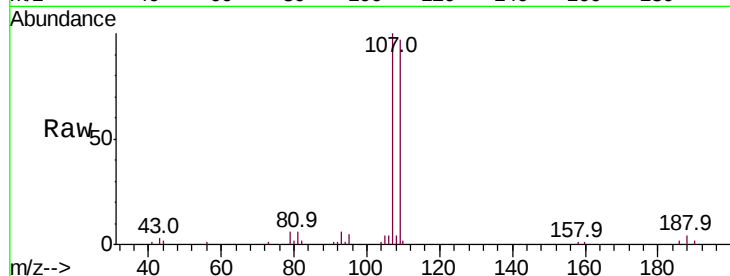
VU1219WBS01

Tot Ion:107 Resp: 32521

Ion Ratio Lower Upper

107 100

109 96.4 74.5 111.7



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.59

20000

15000

10000

5000

0

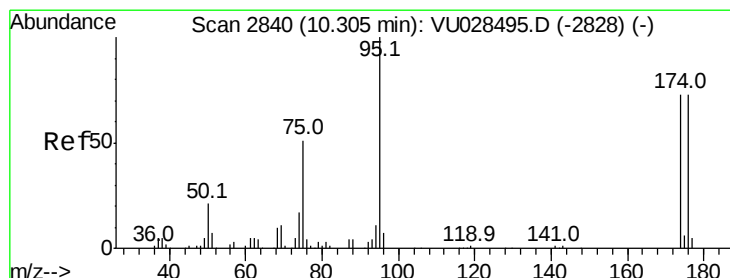
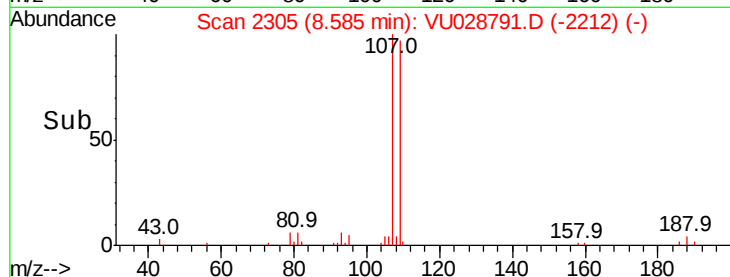
Time-->

8.50

8.55

8.60

8.65



#62

4-Bromofluorobenzene

Concen: 48.475 ug/l

RT: 10.31 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

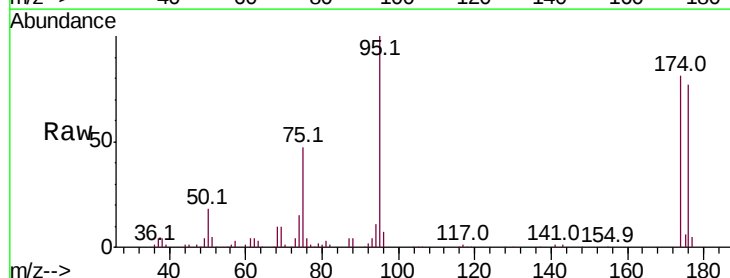
Tgt Ion: 95 Resp: 84918

Ion Ratio Lower Upper

95 100

174 81.6 0.0 150.4

176 78.1 0.0 145.2



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

10.31

60000

40000

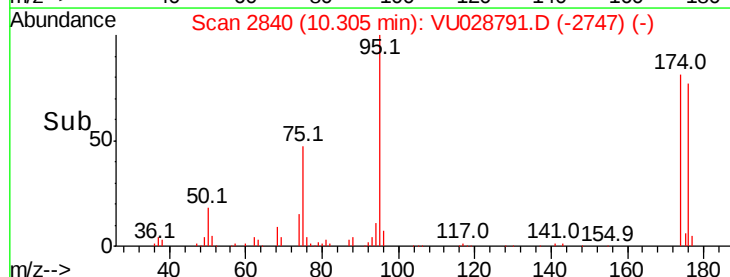
20000

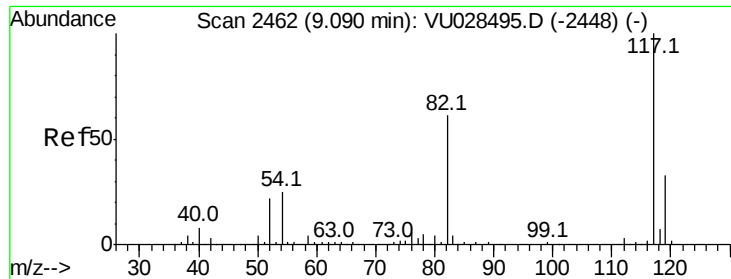
0

Time-->

10.30

10.40

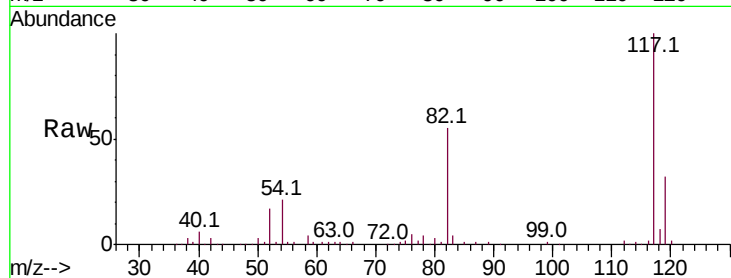




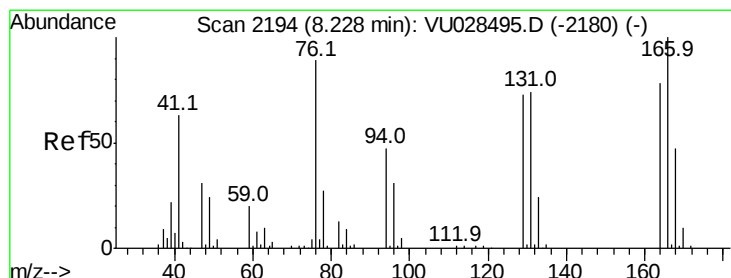
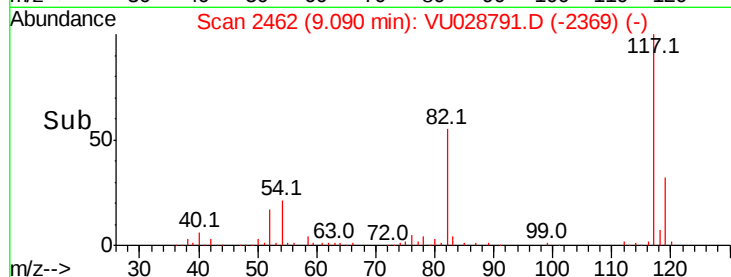
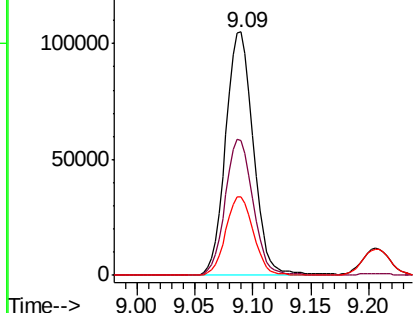
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

Tot Ion:117 Resp: 174235
Ion Ratio Lower Upper
117 100
82 55.3 48.9 73.3
119 32.2 26.2 39.4

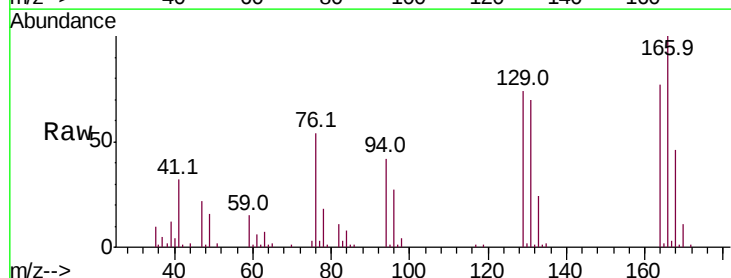


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

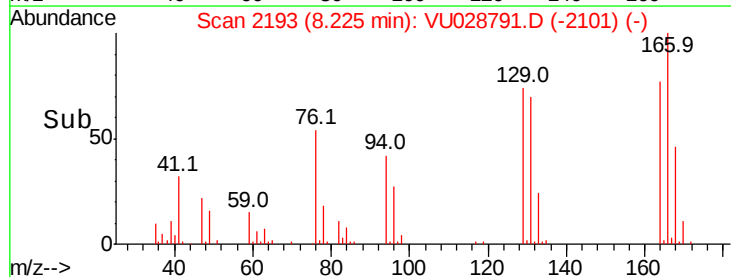
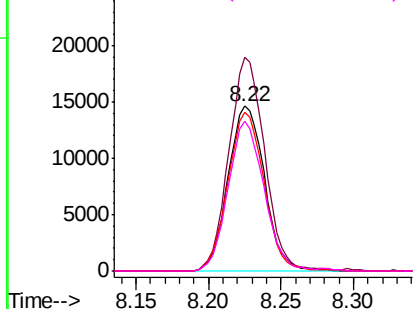


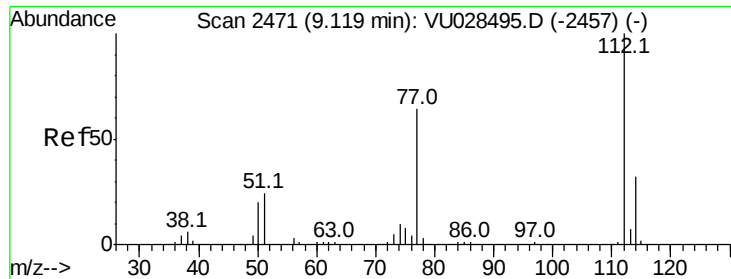
#64
Tetrachloroethene
Concen: 22.029 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Tgt Ion:164 Resp: 25602
Ion Ratio Lower Upper
164 100
166 129.4 101.9 152.9
129 96.0 74.9 112.3
131 90.5 75.4 113.0



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: 21.535 ug/l

RT: 9.12 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

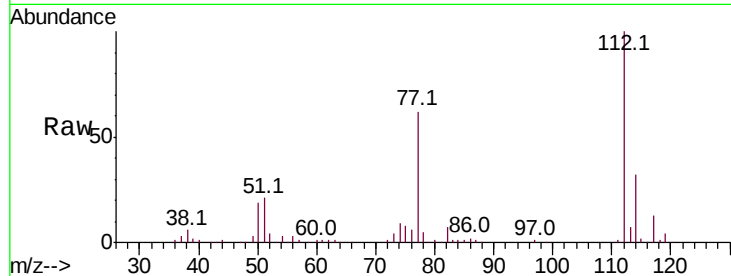
VU1219WBS01

Tot Ion:112 Resp: 79956

Ion Ratio Lower Upper

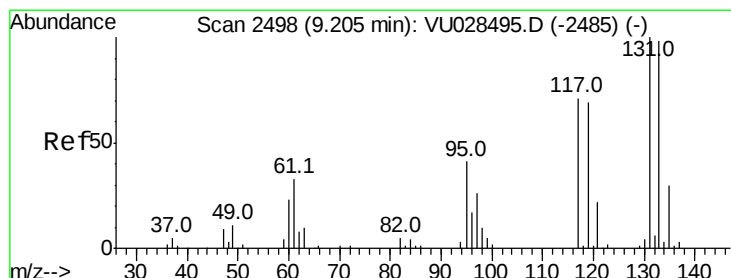
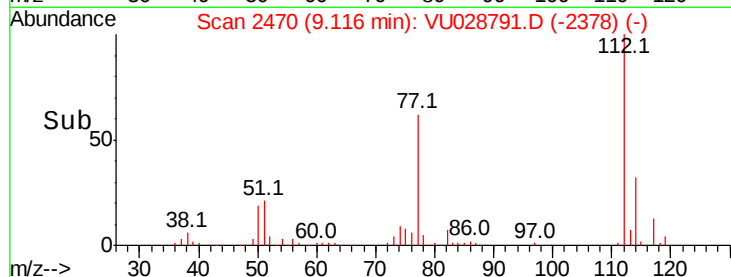
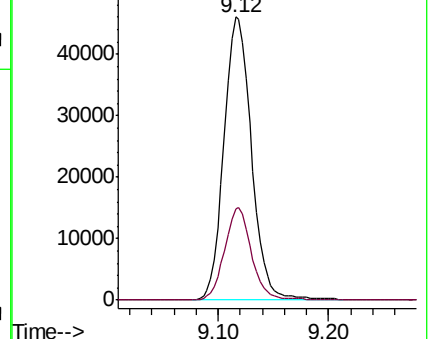
112 100

114 32.3 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.794 ug/l

RT: 9.21 min Scan# 2498

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

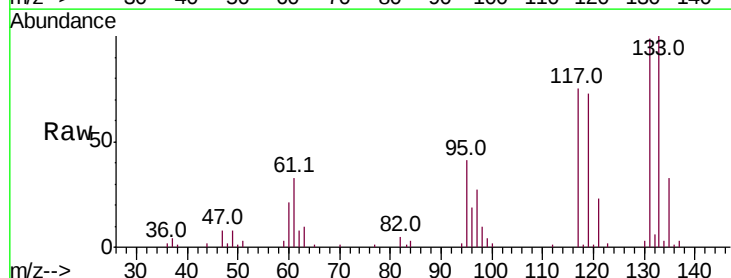
Tgt Ion:131 Resp: 25839

Ion Ratio Lower Upper

131 100

133 100.2 48.0 144.0

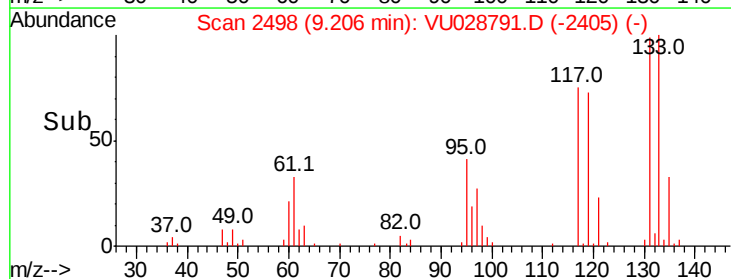
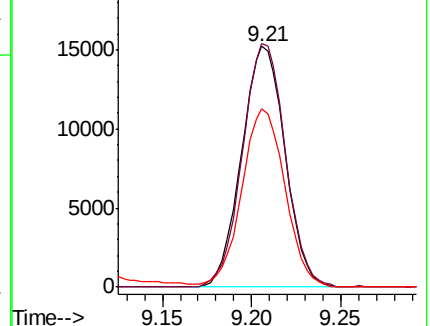
119 73.8 34.6 103.9

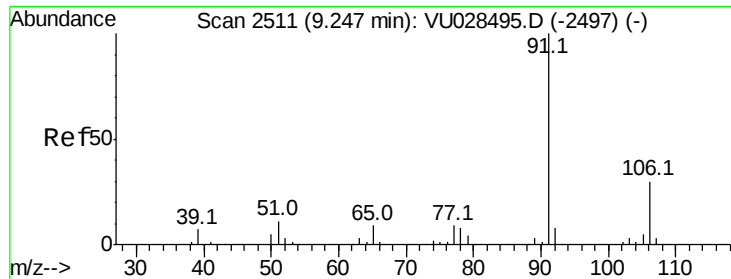


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

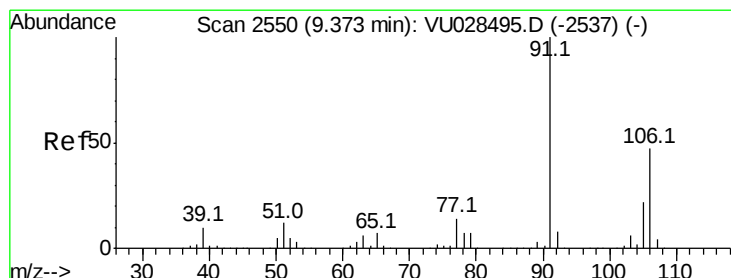
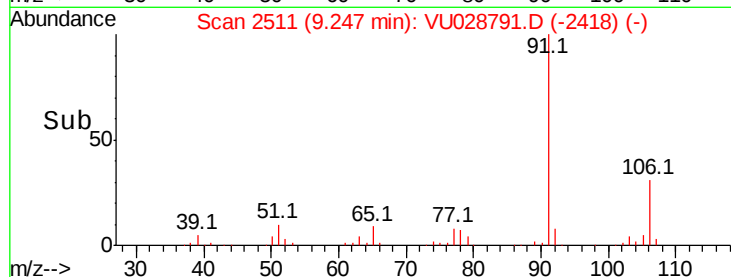
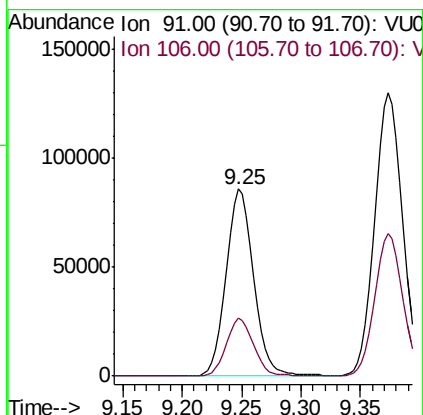
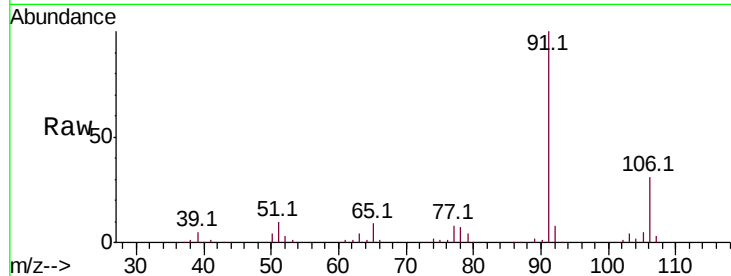




#67
Ethyl Benzene
Concen: 20.252 ug/l
RT: 9.25 min Scan# 2511
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

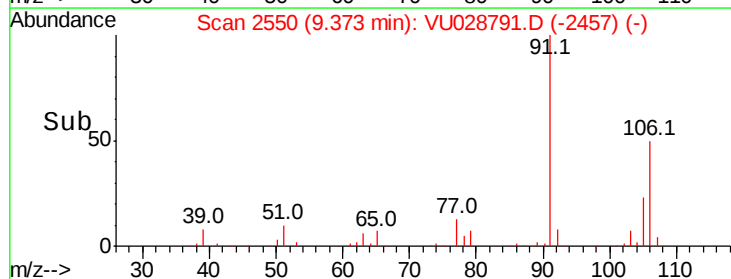
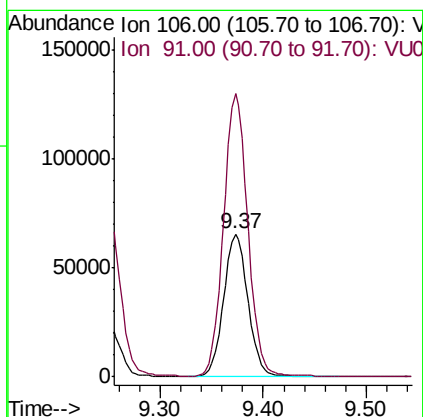
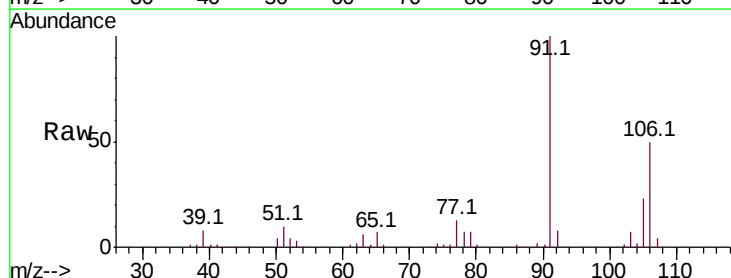
Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

Tot Ion: 91 Resp: 138226
Ion Ratio Lower Upper
91 100
106 30.8 24.1 36.1



#68
m/p-Xylenes
Concen: 43.647 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Tgt Ion: 106 Resp: 108398
Ion Ratio Lower Upper
106 100
91 197.1 167.4 251.0

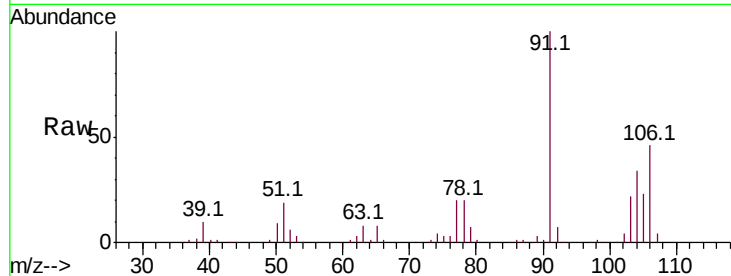




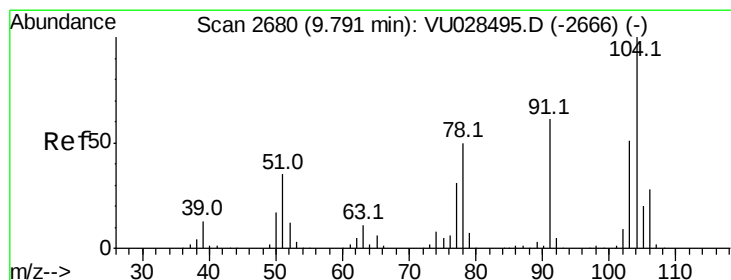
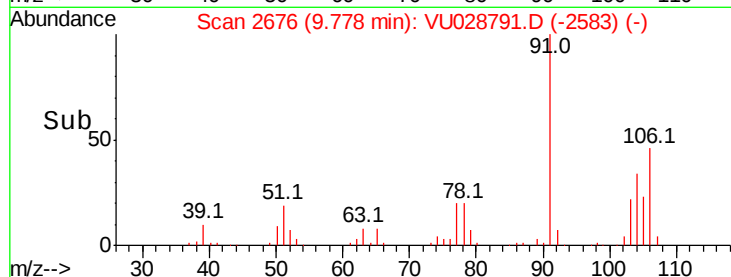
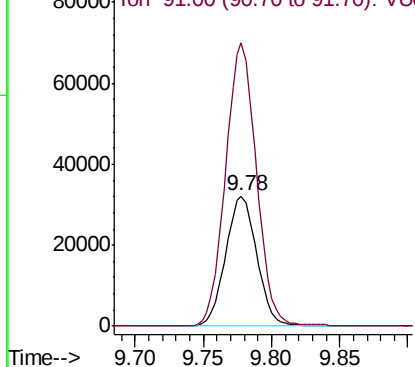
#69
o-Xylene
Concen: 21.177 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

Tot Ion:106 Resp: 51110
Ion Ratio Lower Upper
106 100
91 215.8 111.3 334.0

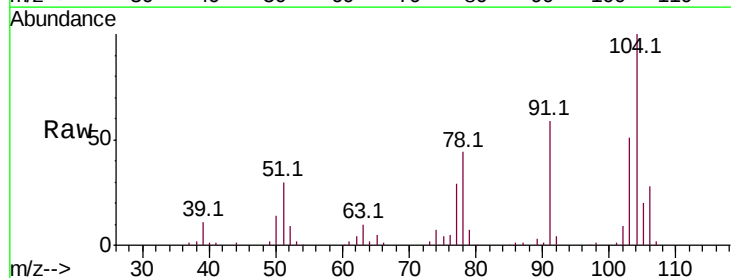


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

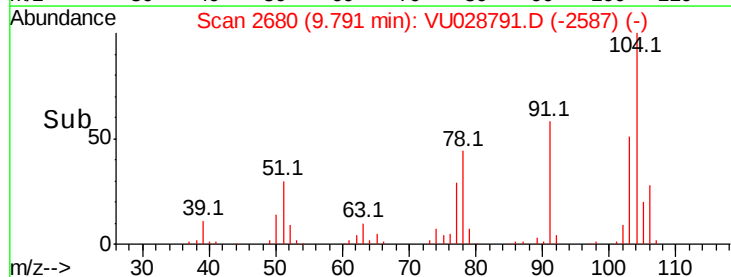
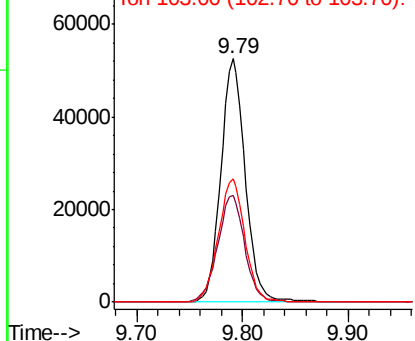


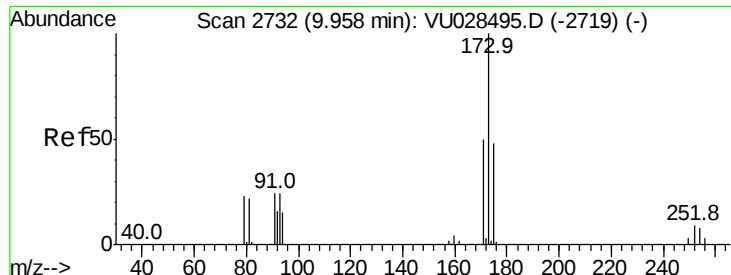
#70
Styrene
Concen: 21.054 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Tgt Ion:104 Resp: 84093
Ion Ratio Lower Upper
104 100
78 48.7 43.0 64.6
103 54.8 44.2 66.4



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





#71

Bromoform

Concen: 21.810 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

VU1219WBS01

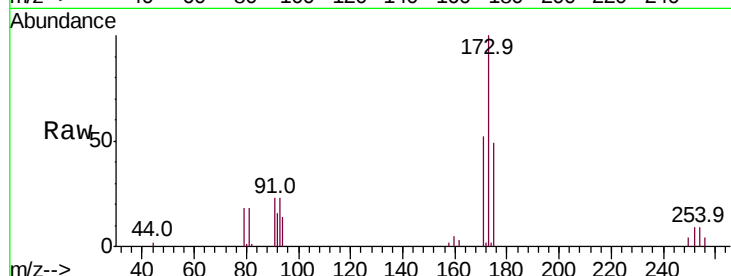
Tot Ion:173 Resp: 21997

Ion Ratio Lower Upper

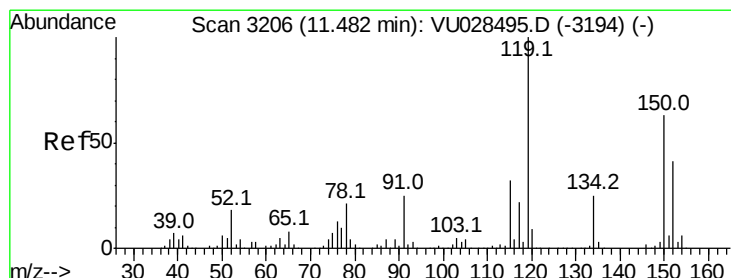
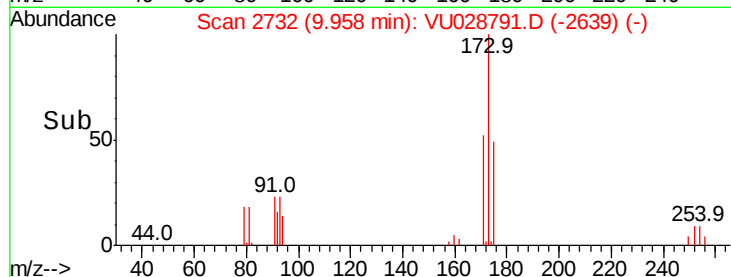
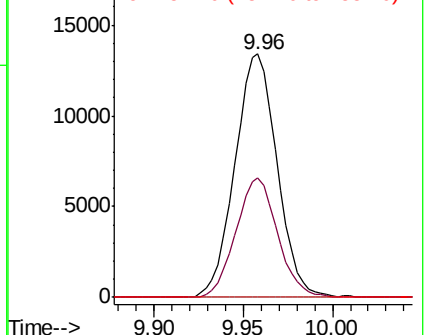
173 100

175 48.6 23.9 71.8

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: VU028791.D

Acq: 19 Dec 2018 14:08

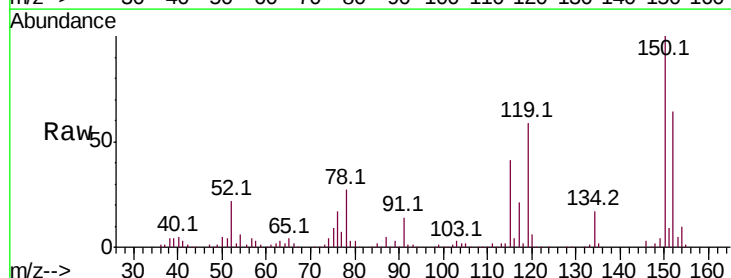
Tgt Ion:152 Resp: 83220

Ion Ratio Lower Upper

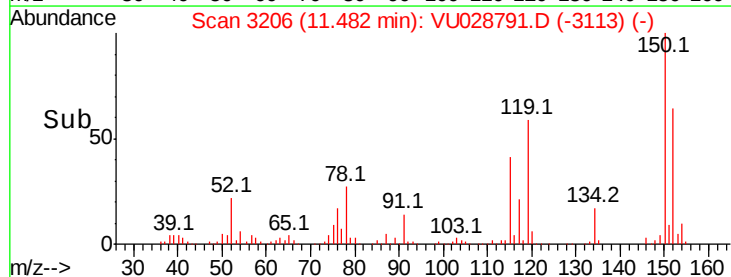
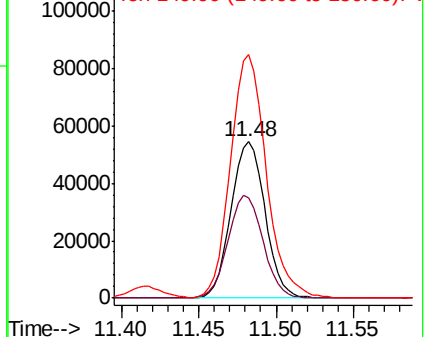
152 100

115 67.4 42.7 128.1

150 162.9 0.0 346.0



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: 20.743 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

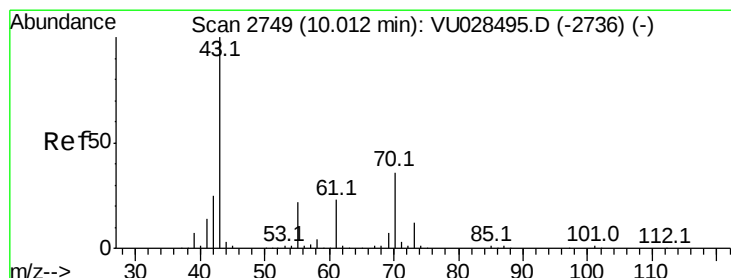
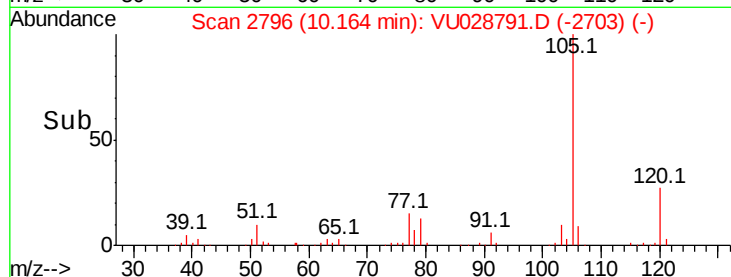
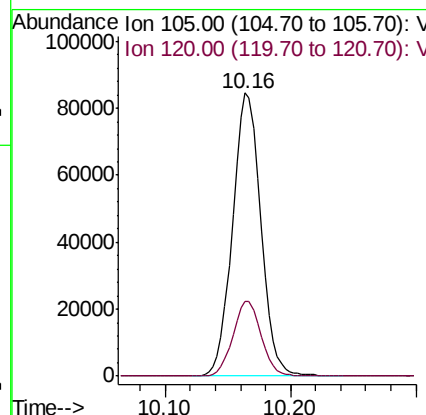
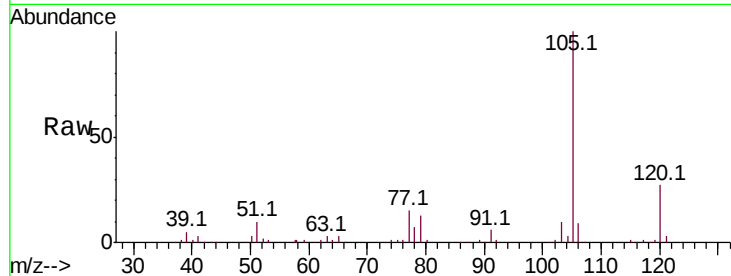
Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

Tot Ion:105 Resp: 132460

Ion	Ratio	Lower	Upper
105	100		
120	26.4	12.9	38.6



#74

N-ethyl acetate

Concen: 16.805 ug/l

RT: 10.01 min Scan# 2749

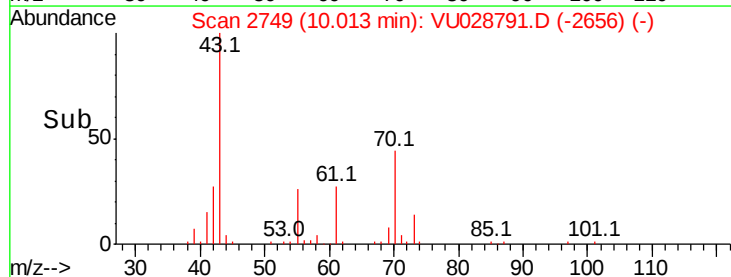
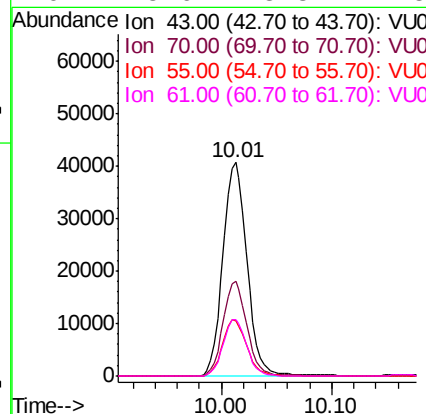
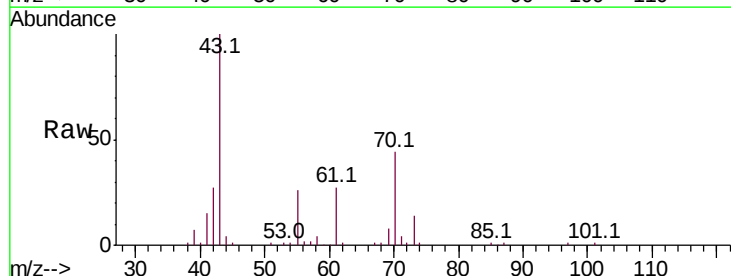
Delta R.T. 0.00 min

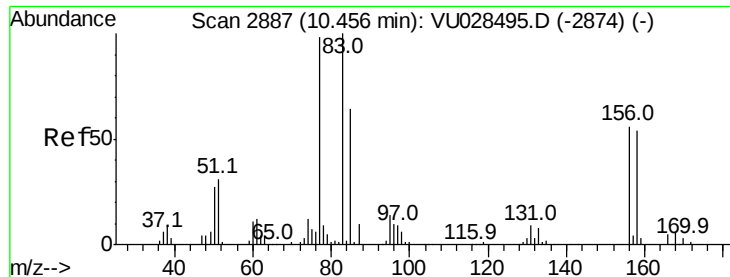
Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Tgt Ion: 43 Resp: 61900

Ion	Ratio	Lower	Upper
43	100		
70	43.3	29.3	43.9
55	26.1	18.0	27.0
61	25.6	18.3	27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 21.491 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

VU1219WBS01

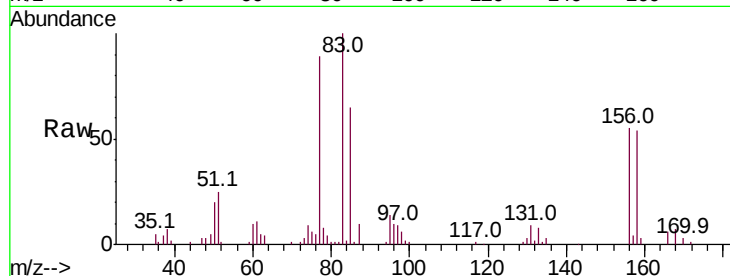
Tot Ion: 83 Resp: 52718

Ion Ratio Lower Upper

83 100

131 9.1 4.2 12.4

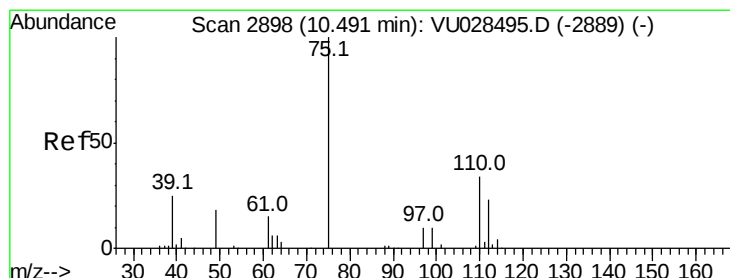
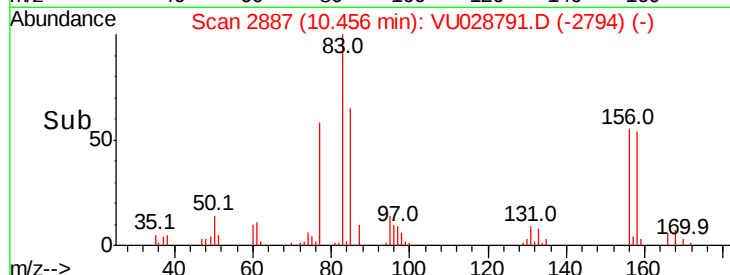
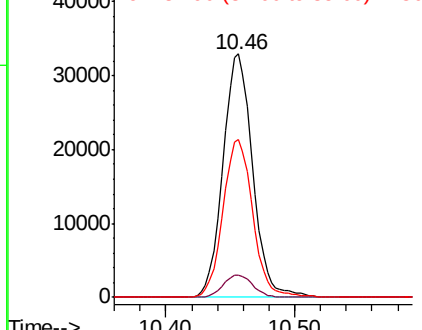
85 65.0 31.8 95.4



Abundance Ion 82.90 (82.60 to 83.60): VU028495.D (-2874) (-)

Ion 130.80 (130.50 to 131.50): VU028495.D (-2874) (-)

Ion 84.90 (84.60 to 85.60): VU028495.D (-2874) (-)



#76

1,2,3-Trichloropropane

Concen: 28.887 ug/l

RT: 10.49 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VU028791.D

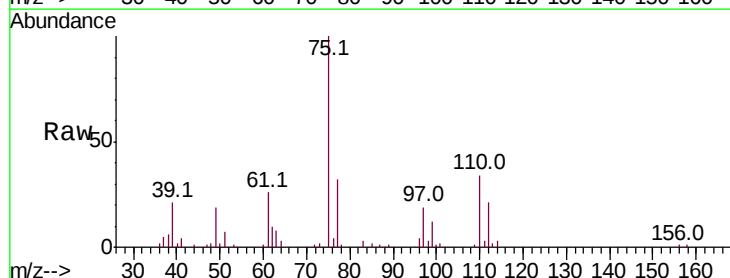
Acq: 19 Dec 2018 14:08

Tgt Ion: 75 Resp: 61387

Ion Ratio Lower Upper

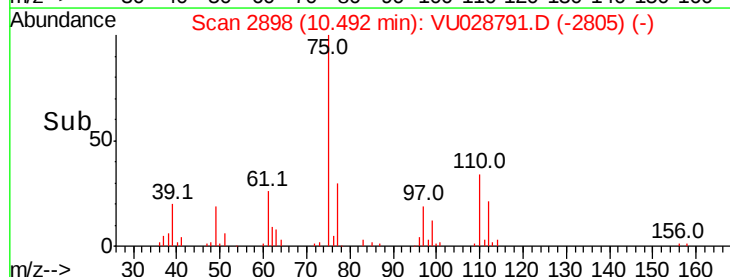
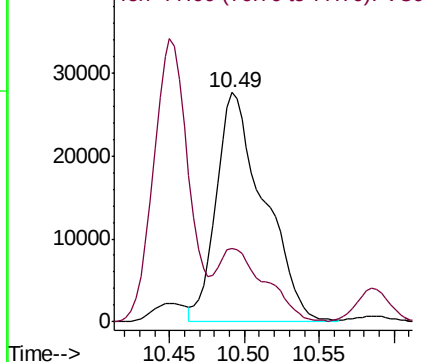
75 100

77 31.2 20.8 62.4



Abundance Ion 74.90 (74.60 to 75.60): VU028495.D (-2889) (-)

Ion 77.00 (76.70 to 77.70): VU028495.D (-2889) (-)





#77

Bromobenzene

Concen: 22.519 ug/l

RT: 10.45 min Scan# 2885

Delta R.T. -0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

VU1219WBS01

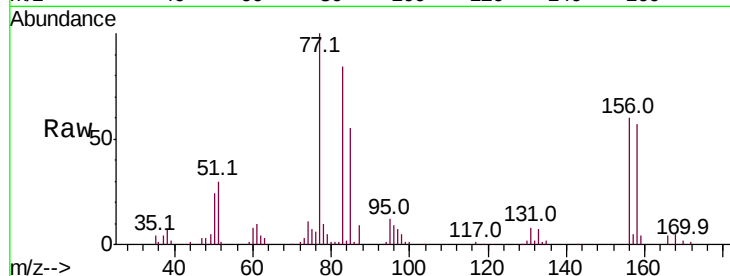
Tot Ion:156 Resp: 33632

Ion Ratio Lower Upper

156 100

77 163.3 92.4 277.2

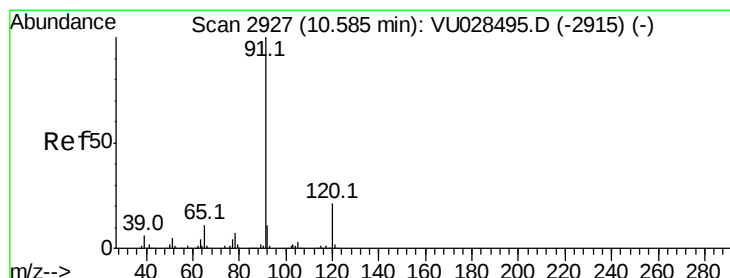
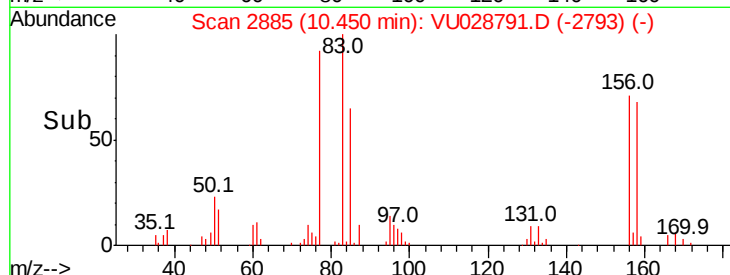
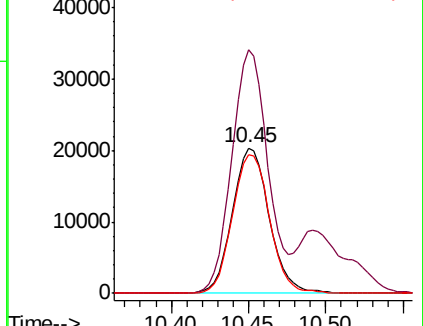
158 96.4 48.4 145.3



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: 20.059 ug/l

RT: 10.58 min Scan# 2927

Delta R.T. 0.00 min

Lab File: VU028791.D

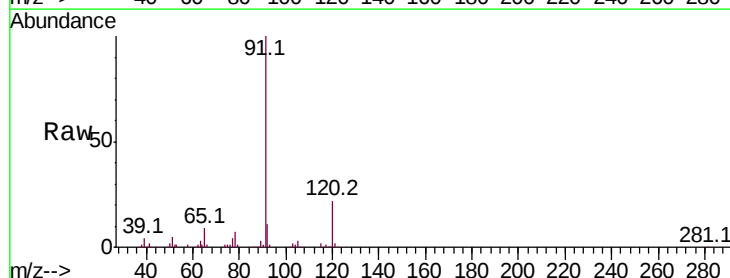
Acq: 19 Dec 2018 14:08

Tgt Ion: 91 Resp: 159170

Ion Ratio Lower Upper

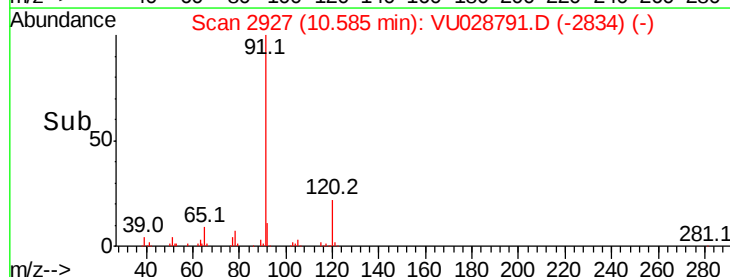
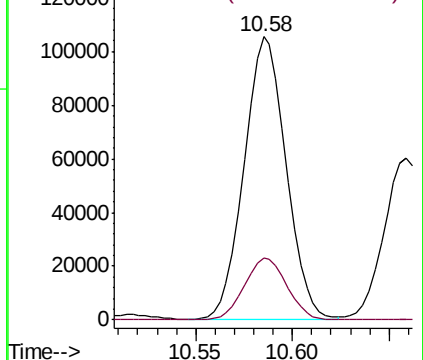
91 100

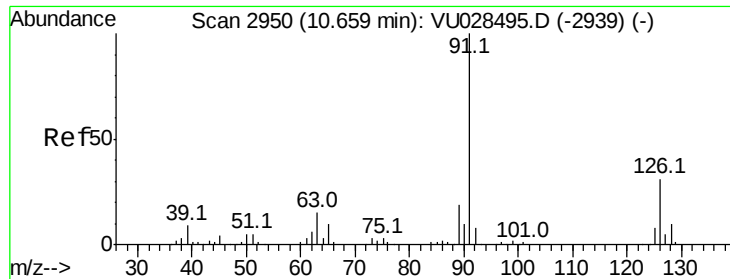
120 22.1 10.6 31.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V

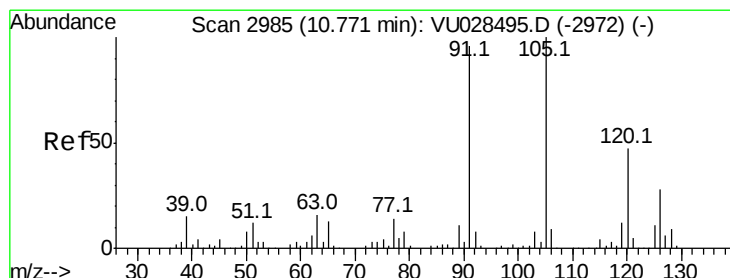
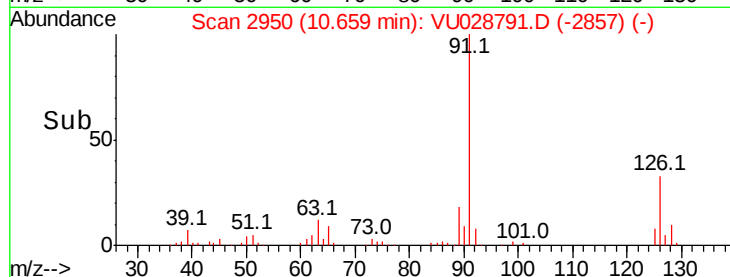
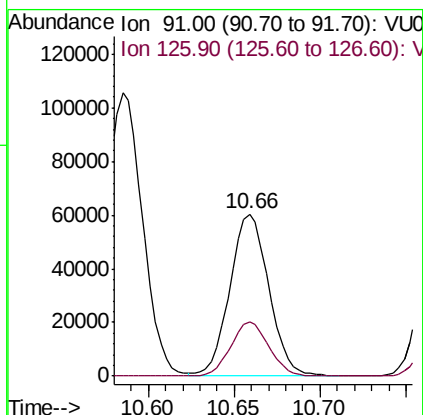
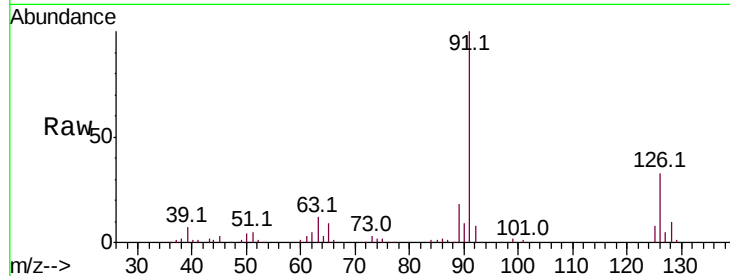




#79
 2-Chlorotoluene
 Concen: 20.764 ug/l
 RT: 10.66 min Scan# 2950
 Delta R.T. 0.00 min
 Lab File: VU028791.D
 Acq: 19 Dec 2018 14:08

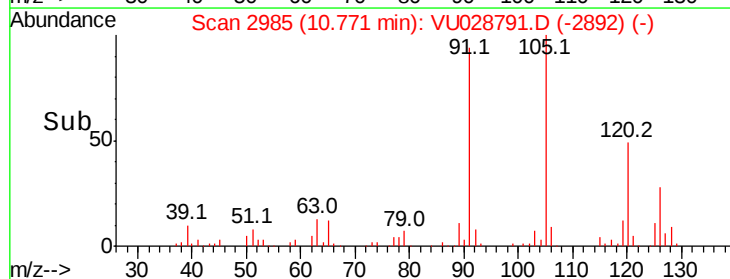
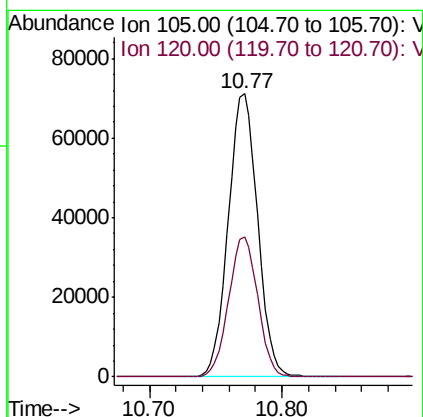
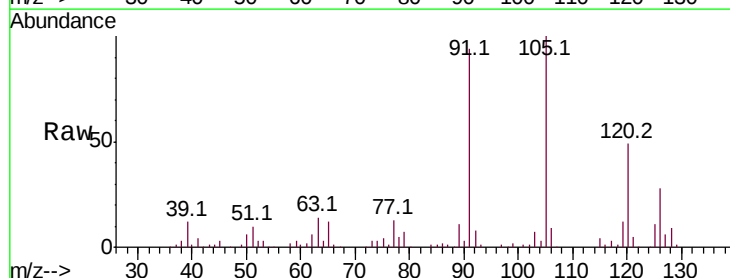
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1219WBS01

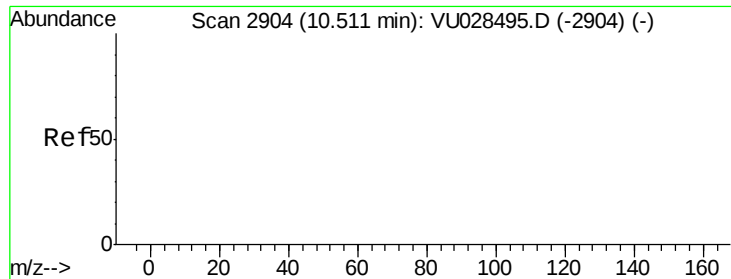
Tot Ion: 91 Resp: 94907
 Ion Ratio Lower Upper
 91 100
 126 32.9 15.6 46.8



#80
 1,3,5-Trimethylbenzene
 Concen: 20.734 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. 0.00 min
 Lab File: VU028791.D
 Acq: 19 Dec 2018 14:08

Tgt Ion: 105 Resp: 109598
 Ion Ratio Lower Upper
 105 100
 120 49.0 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 70.805 ug/l

RT: 10.49 min Scan# 2898

Delta R.T. -0.02 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

VU1219WBS01

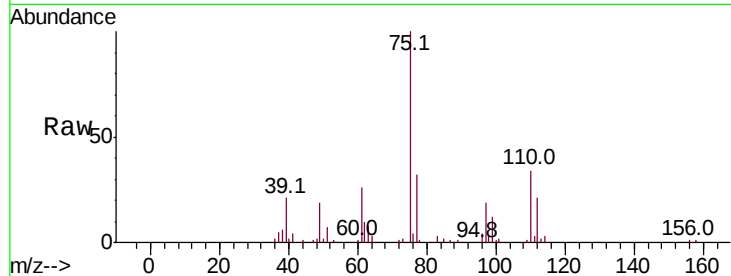
Tot Ion: 75 Resp: 61387

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

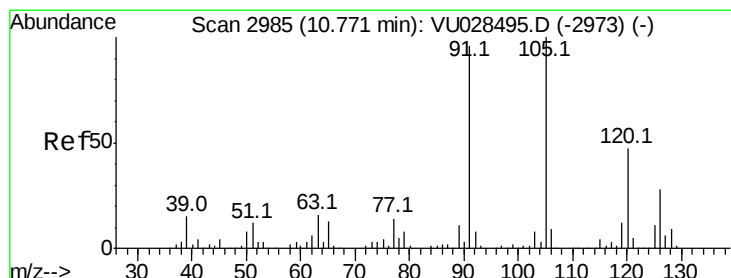
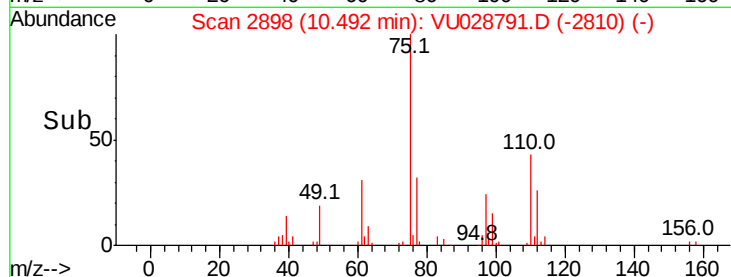
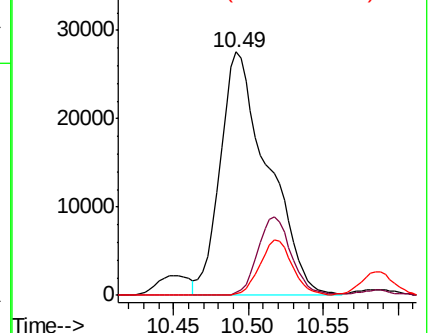
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0



#82

4-Chlorotoluene

Concen: 19.453 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU028791.D

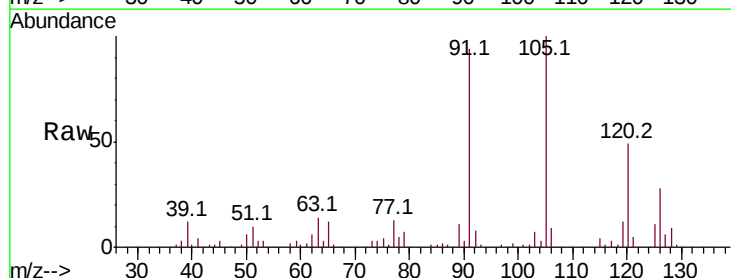
Acq: 19 Dec 2018 14:08

Tgt Ion: 91 Resp: 105363

Ion Ratio Lower Upper

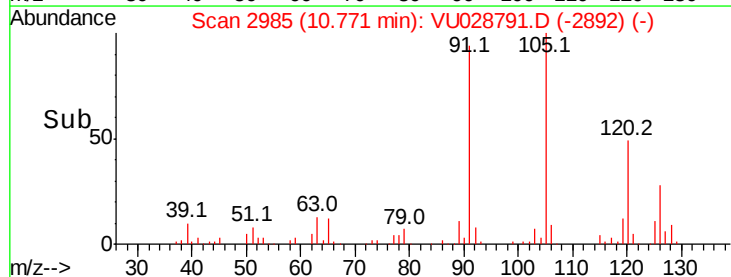
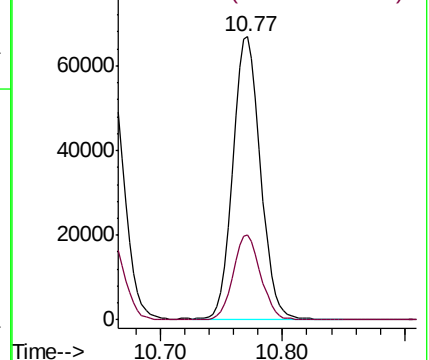
91 100

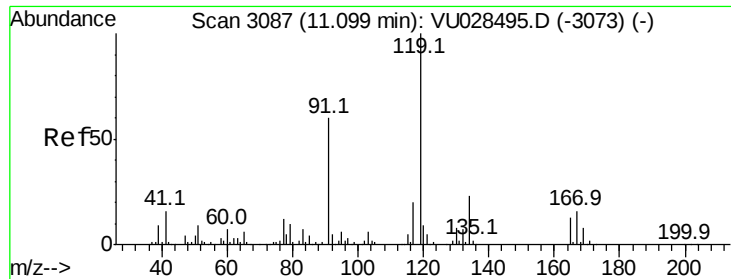
126 30.0 14.1 42.3



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 21.120 ug/l

RT: 11.10 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

VU1219WBS01

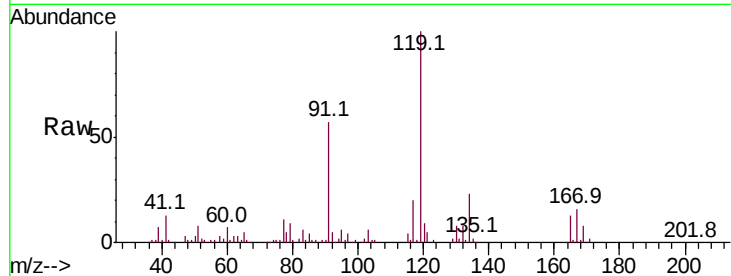
Tot Ion:119 Resp: 107603

Ion Ratio Lower Upper

119 100

91 57.0 30.3 91.0

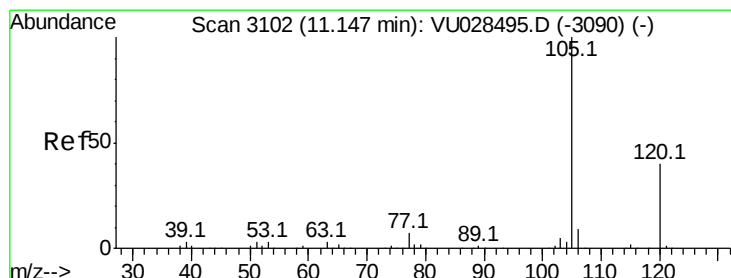
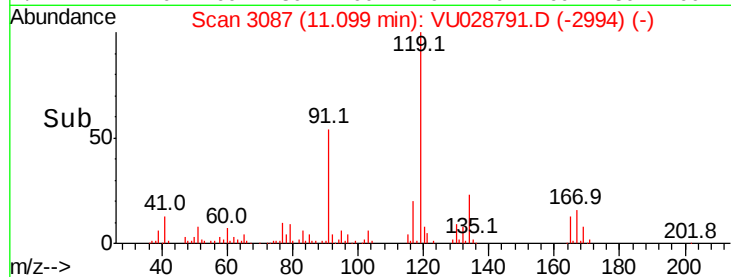
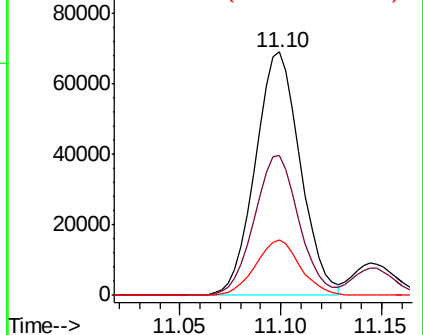
134 22.4 11.2 33.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.507 ug/l

RT: 11.15 min Scan# 3102

Delta R.T. 0.00 min

Lab File: VU028791.D

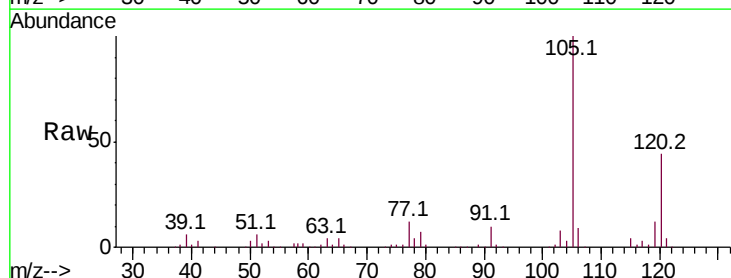
Acq: 19 Dec 2018 14:08

Tgt Ion:105 Resp: 111715

Ion Ratio Lower Upper

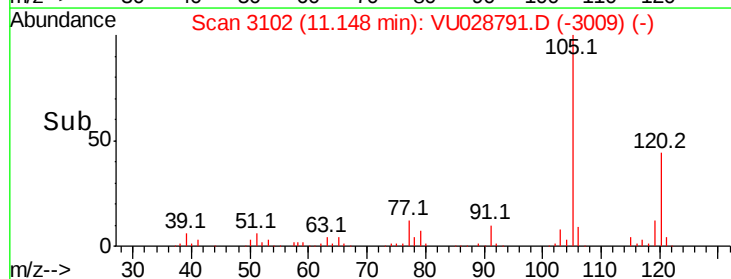
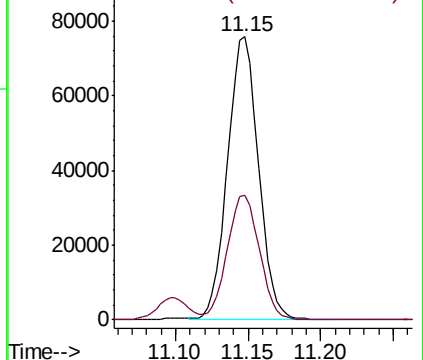
105 100

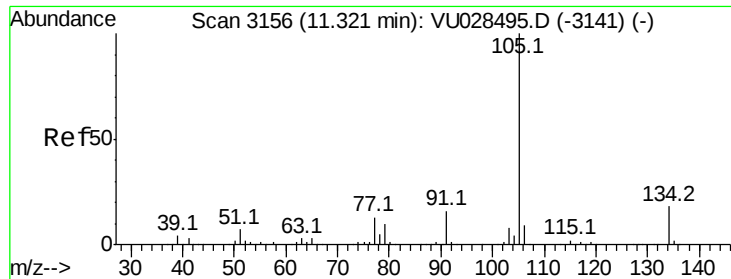
120 46.0 21.8 65.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.312 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

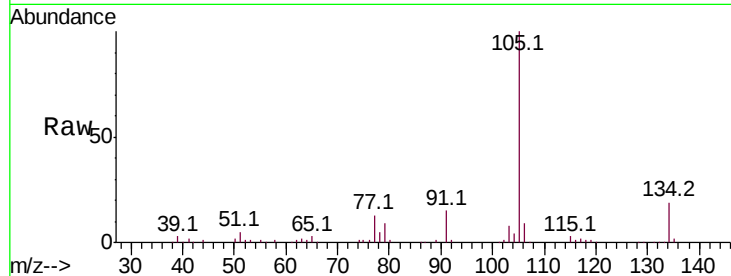
VU1219WBS01

Tot Ion:105 Resp: 132951

Ion Ratio Lower Upper

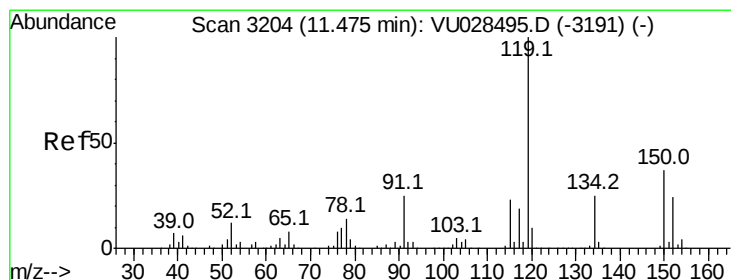
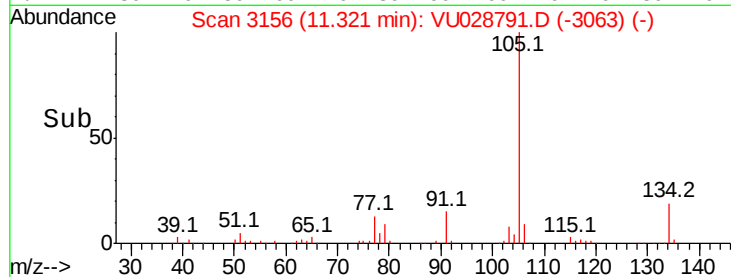
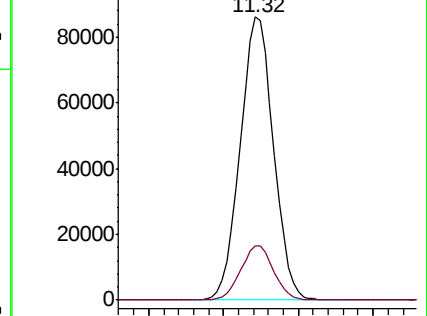
105 100

134 19.0 9.2 27.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.907 ug/l

RT: 11.47 min Scan# 3203

Delta R.T. -0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

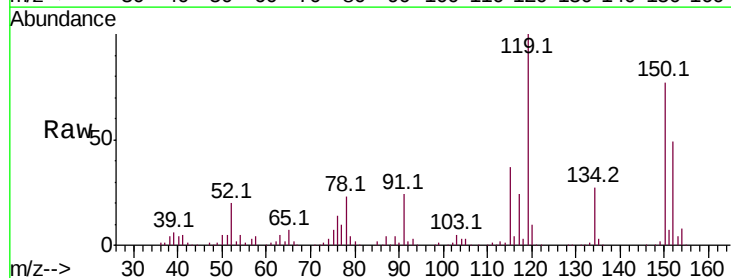
Tgt Ion:119 Resp: 110682

Ion Ratio Lower Upper

119 100

134 27.2 12.7 38.1

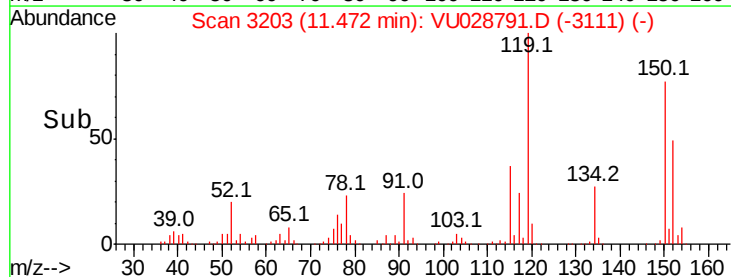
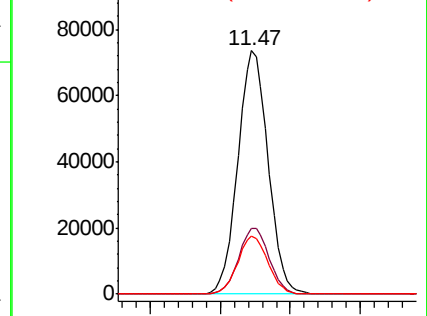
91 23.8 12.6 37.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0

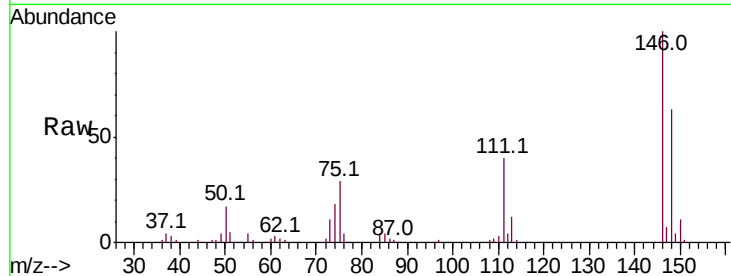




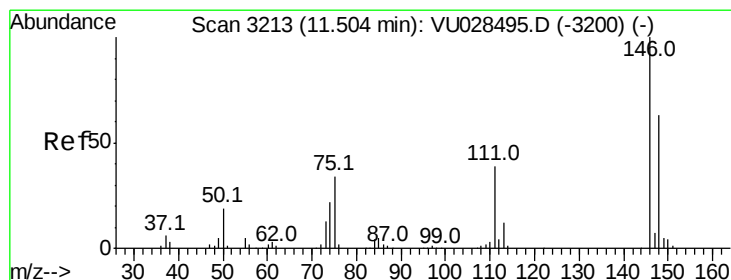
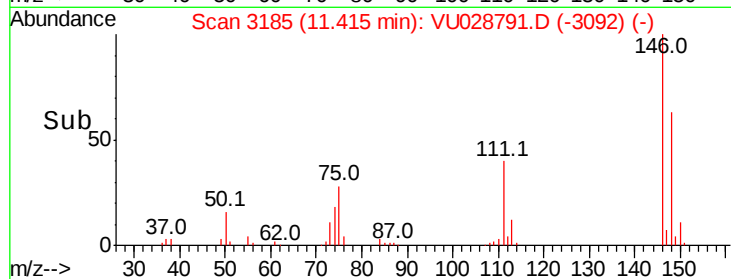
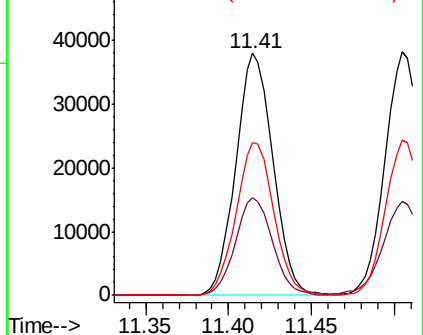
#87
 1,3-Dichlorobenzene
 Concen: 21.098 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. 0.00 min
 Lab File: VU028791.D
 Acq: 19 Dec 2018 14:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1219WBS01

Tot Ion:146 Resp: 59497
 Ion Ratio Lower Upper
 146 100
 111 40.0 20.7 62.1
 148 63.9 31.9 95.7

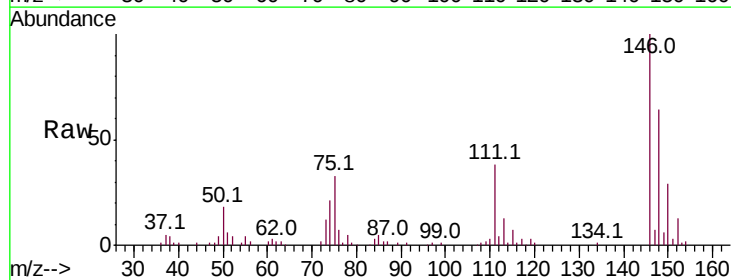


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

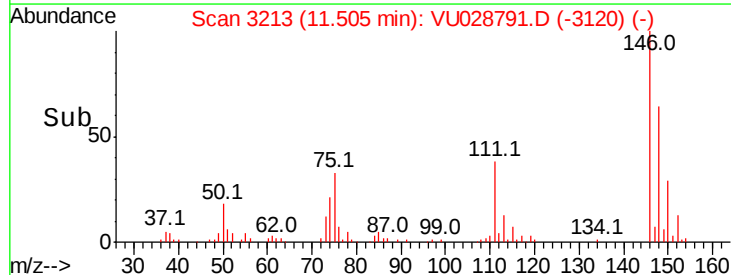
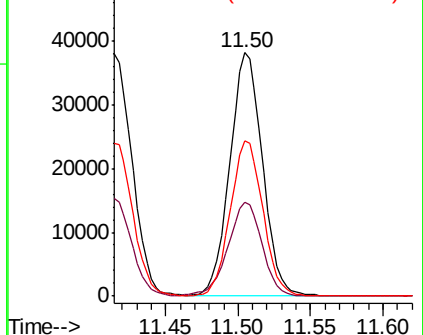


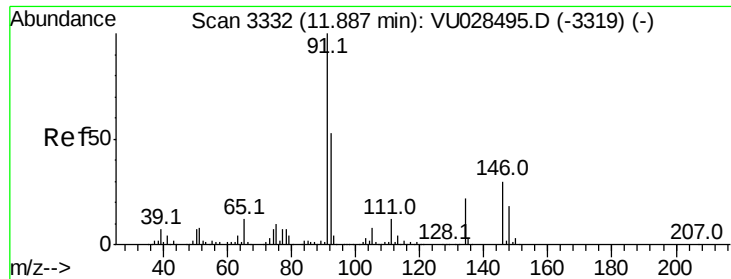
#88
 1,4-Dichlorobenzene
 Concen: 20.444 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. 0.00 min
 Lab File: VU028791.D
 Acq: 19 Dec 2018 14:08

Tgt Ion:146 Resp: 59650
 Ion Ratio Lower Upper
 146 100
 111 40.1 20.2 60.5
 148 63.6 31.6 95.0



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

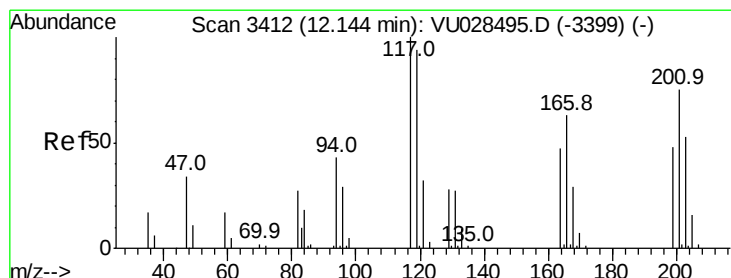
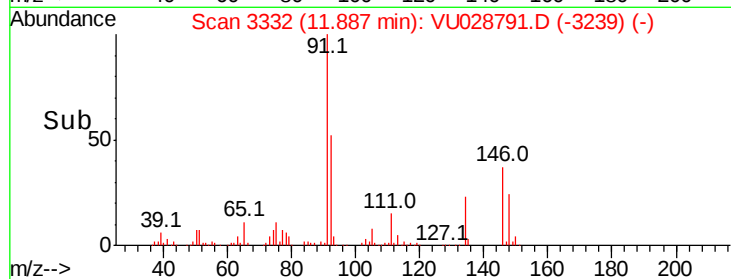
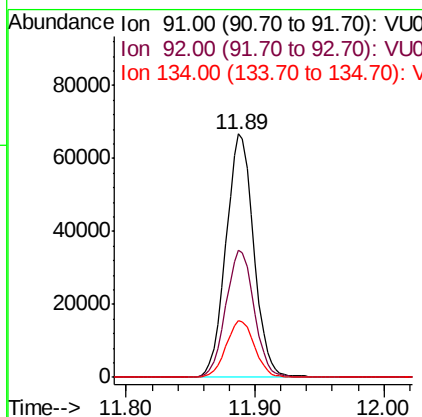
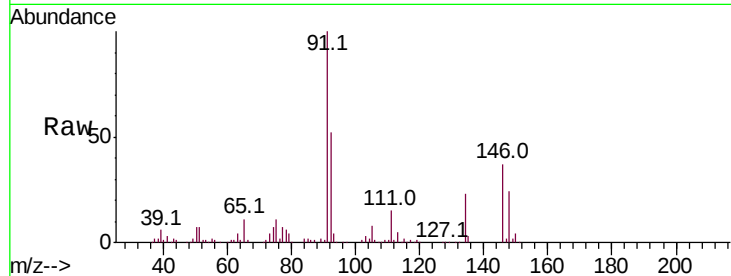




#89
n-Butylbenzene
Concen: 17.670 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

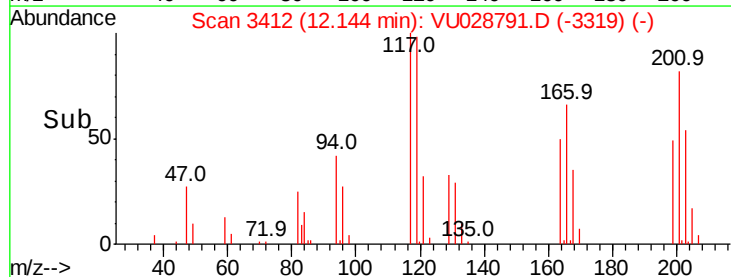
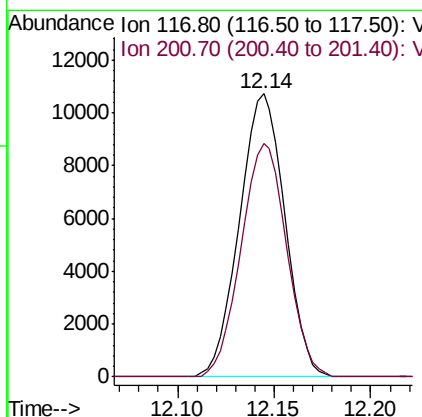
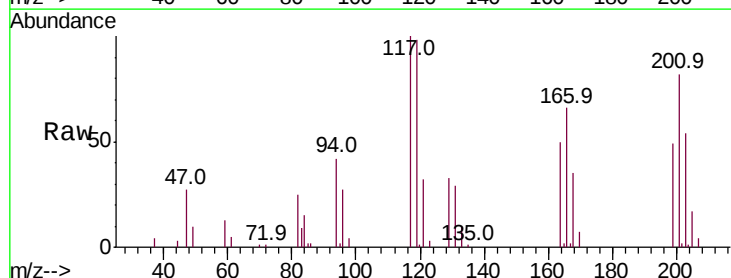
Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

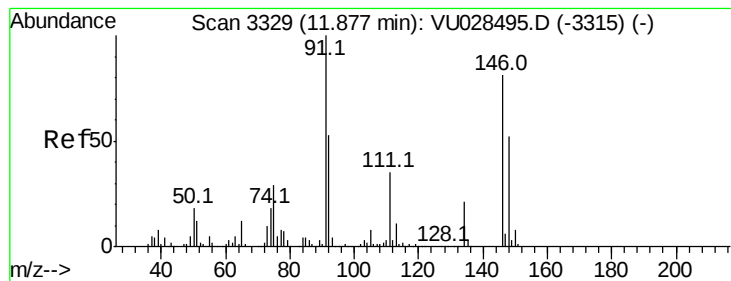
Tot Ion: 91 Resp: 99430
Ion Ratio Lower Upper
91 100
92 53.3 26.3 78.9
134 23.8 11.3 33.8



#90
Hexachloroethane
Concen: 20.850 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Tgt Ion: 117 Resp: 17522
Ion Ratio Lower Upper
117 100
201 82.7 38.1 114.5





#91

1,2-Dichlorobenzene

Concen: 21.415 ug/l

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

Instrument :

MSVOA_U

ClientSampleId :

VU1219WBS01

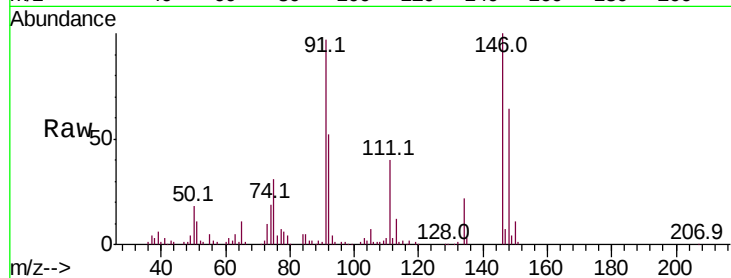
Tot Ion:146 Resp: 60409

Ion Ratio Lower Upper

146 100

111 39.0 21.1 63.4

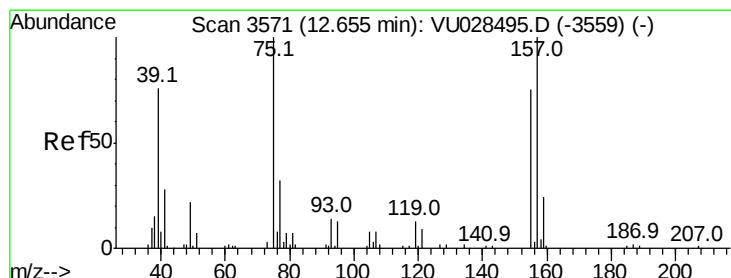
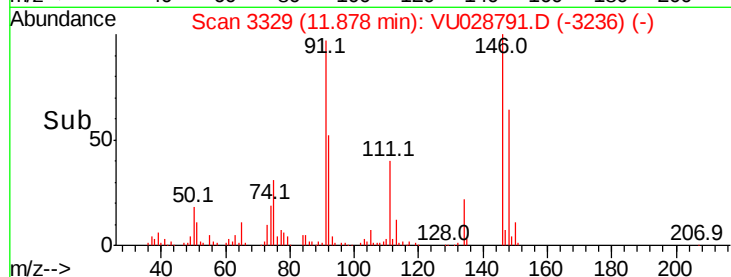
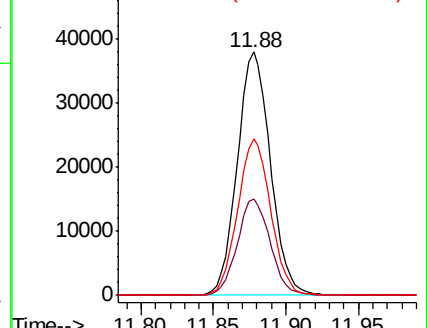
148 64.1 31.4 94.2



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: 19.809 ug/l

RT: 12.66 min Scan# 3571

Delta R.T. 0.00 min

Lab File: VU028791.D

Acq: 19 Dec 2018 14:08

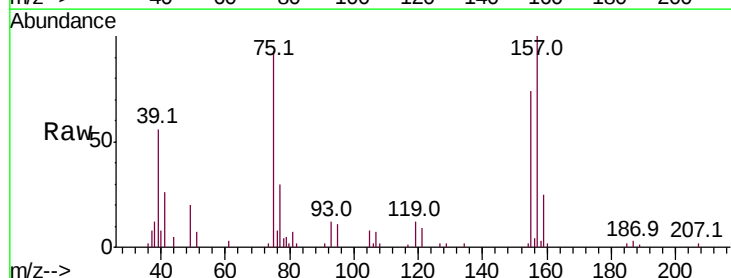
Tgt Ion: 75 Resp: 10520

Ion Ratio Lower Upper

75 100

155 84.8 38.1 114.5

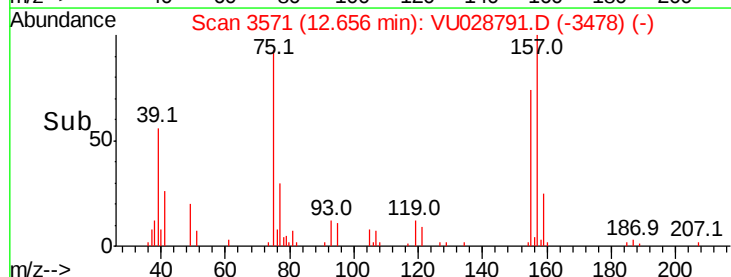
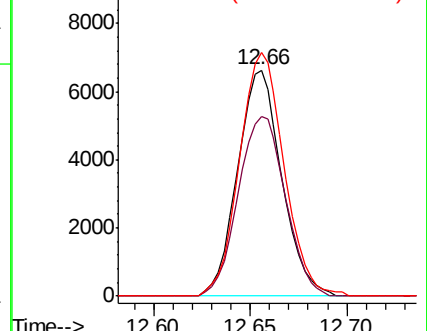
157 109.0 48.7 146.1

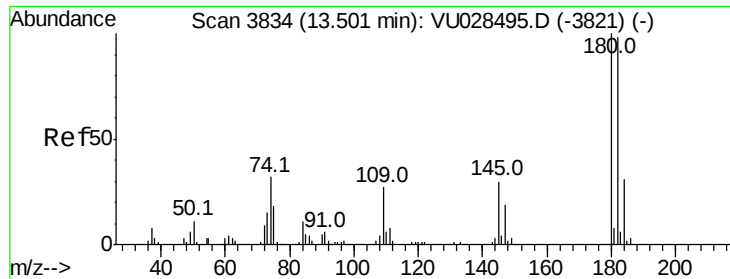


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

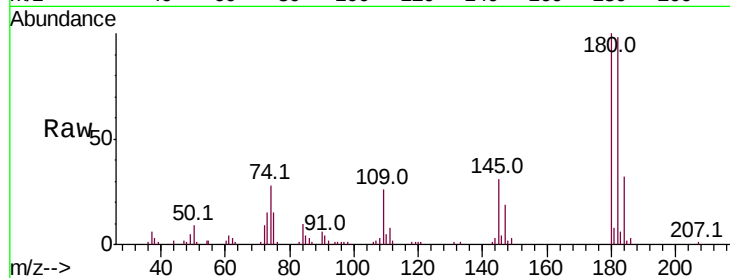




#93
 1,2,4-Trichlorobenzene
 Concen: 18.754 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028791.D
 Acq: 19 Dec 2018 14:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1219WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.6	47.9	143.8
145	30.2	15.0	45.1

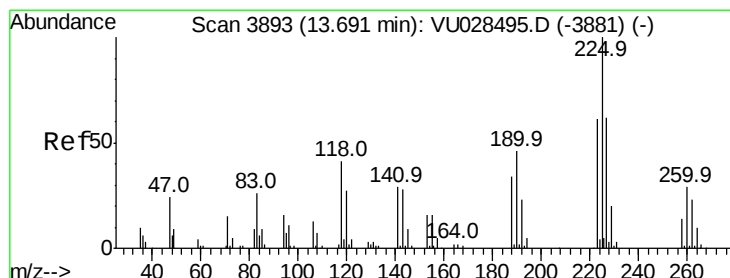
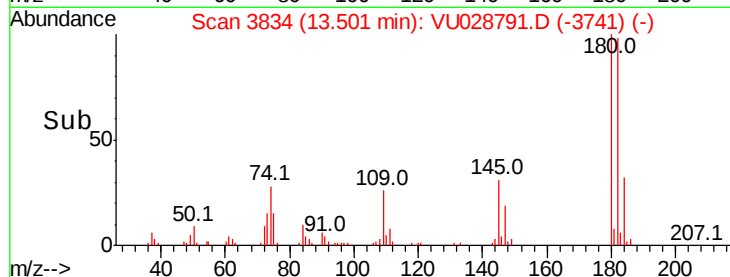
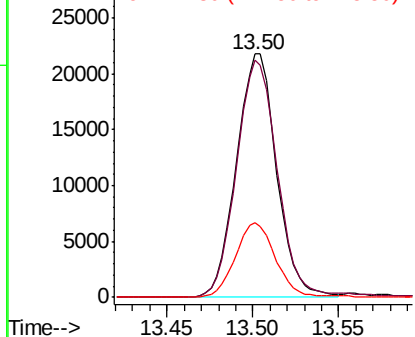


Abundance

Ion 179.80 (179.50 to 180.50): V

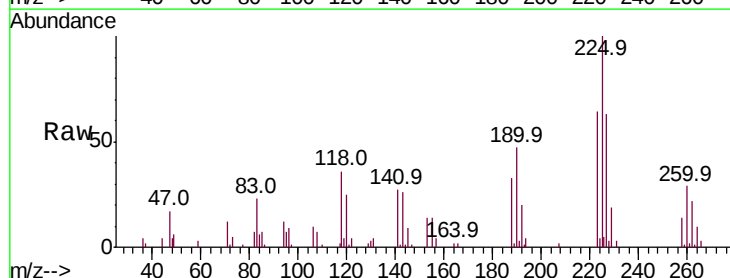
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 18.755 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU028791.D
 Acq: 19 Dec 2018 14:08

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	30.4	91.2
227	63.7	30.7	92.1

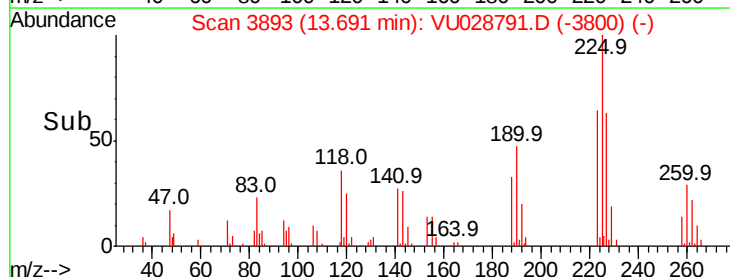
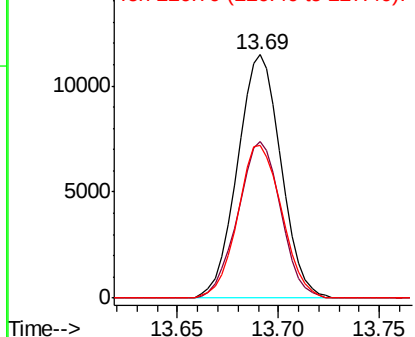


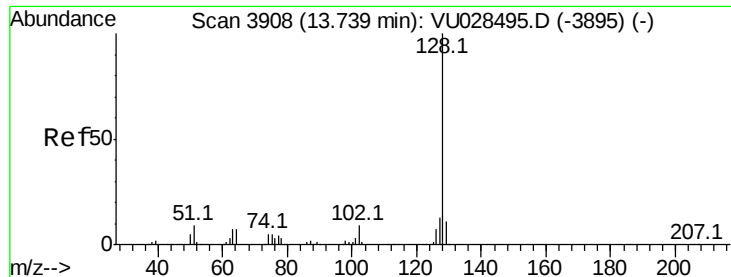
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

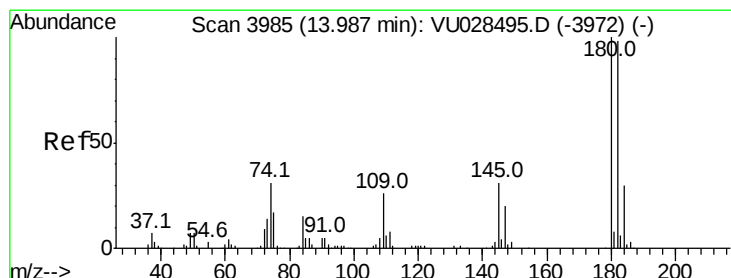
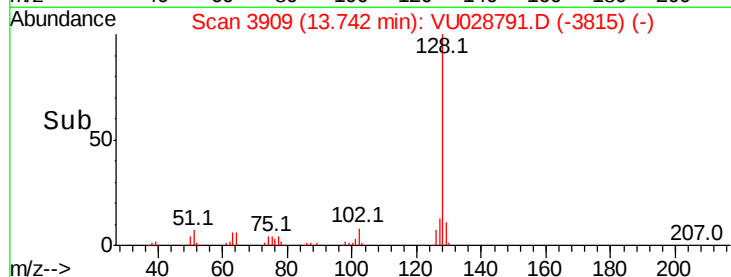
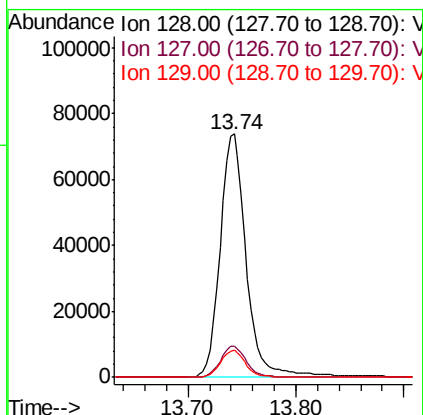
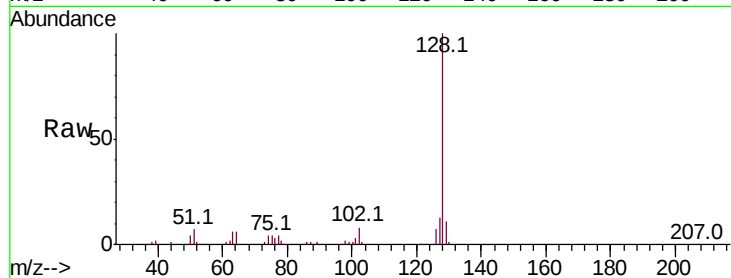




#95
Naphthalene
Concen: 18.295 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Instrument :
MSVOA_U
ClientSampleId :
VU1219WBS01

Tot Ion:128 Resp: 123837
Ion Ratio Lower Upper
128 100
127 13.0 10.4 15.6
129 10.8 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 19.814 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028791.D
Acq: 19 Dec 2018 14:08

Tgt Ion:180 Resp: 38053
Ion Ratio Lower Upper
180 100
182 96.7 48.2 144.6
145 29.6 15.8 47.3

