

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121318\
 Data File : VU028640.D
 Acq On : 12 Dec 2018 10:20
 Operator : MD/SY
 Sample : VU1213WBS02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS02

Quant Time: Dec 13 00:45:22 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	111021	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	189821	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	174046	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	82272	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	78248	46.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.36%	
35) Dibromofluoromethane	4.88	113	59812	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
50) Toluene-d8	7.57	98	234084	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
62) 4-Bromofluorobenzene	10.30	95	84354	47.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	28249	18.983	ug/l	100
3) Chloromethane	1.33	50	48332	17.666	ug/l	98
4) Vinyl Chloride	1.40	62	38373	19.436	ug/l	99
5) Bromomethane	1.61	94	16167	20.328	ug/l	100
6) Chloroethane	1.69	64	22186	19.849	ug/l	95
7) Trichlorofluoromethane	1.88	101	40701	19.594	ug/l	99
8) Diethyl Ether	2.10	74	19177	19.733	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.28	101	24260	19.528	ug/l	99
10) Methyl Iodide	2.41	142	25311	25.966	ug/l	97
11) Tert butyl alcohol	2.83	59	36346	96.288	ug/l	99
12) 1,1-Dichloroethene	2.28	96	23175	18.749	ug/l	99
13) Acrolein	2.19	56	26201	87.070	ug/l	100
14) Allyl chloride	2.59	41	59128	20.220	ug/l	93
15) Acrylonitrile	2.94	53	105314	100.492	ug/l	99
16) Acetone	2.32	43	99745	90.220	ug/l	97
17) Carbon Disulfide	2.48	76	80409	18.057	ug/l	100
18) Methyl Acetate	2.62	43	63893	22.294	ug/l	99
19) Methyl tert-butyl Ether	3.00	73	91698	19.569	ug/l	99
20) Methylene Chloride	2.70	84	30449	18.683	ug/l	95
21) trans-1,2-Dichloroethene	2.98	96	26600	19.113	ug/l	92
22) Diisopropyl ether	3.57	45	110002	19.344	ug/l	99
23) Vinyl Acetate	3.52	43	454096	96.812	ug/l	98
24) 1,1-Dichloroethane	3.44	63	56693	19.046	ug/l	99
25) 2-Butanone	4.26	43	147519	97.638	ug/l	99
26) 2,2-Dichloropropane	4.22	77	45238	19.180	ug/l	100
27) cis-1,2-Dichloroethene	4.22	96	30509	19.368	ug/l	97
28) Bromochloromethane	4.55	49	27324	20.192	ug/l	96
29) Tetrahydrofuran	4.64	42	96571	99.522	ug/l	98
30) Chloroform	4.67	83	51029	19.669	ug/l	99
31) Cyclohexane	4.99	56	55932	18.501	ug/l	96
32) 1,1,1-Trichloroethane	4.92	97	42169	19.571	ug/l	97
36) 1,1-Dichloropropene	5.13	75	38389	18.481	ug/l	98
37) Ethyl Acetate	4.38	43	52512	19.556	ug/l	99
38) Carbon Tetrachloride	5.13	117	33242	19.855	ug/l	99

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 VU1213WBS02

Quant Time: Dec 13 00:45:22 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	48514	19.144	ug/l	97
40) Benzene	5.39	78	121960	19.935	ug/l	97
41) Methacrylonitrile	4.54	41	29543	20.090	ug/l	98
42) 1,2-Dichloroethane	5.40	62	41602	19.427	ug/l	100
43) Isopropyl Acetate	5.55	43	84631	19.927	ug/l	99
44) Trichloroethene	6.18	130	27076	19.905	ug/l	98
45) 1,2-Dichloropropane	6.43	63	34722	20.183	ug/l	96
46) Dibromomethane	6.56	93	20319	19.906	ug/l	97
47) Bromodichloromethane	6.76	83	39113	19.691	ug/l	99
48) Methyl methacrylate	6.62	41	43302	20.502	ug/l	99
49) 1,4-Dioxane	6.61	88	12985	389.358	ug/l	96
51) 4-Methyl-2-Pentanone	7.46	43	268108	100.088	ug/l	99
52) Toluene	7.64	92	71958	19.986	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	47304	19.996	ug/l	97
54) cis-1,3-Dichloropropene	7.27	75	50417	19.644	ug/l	96
55) 1,1,2-Trichloroethane	8.07	97	29630	20.819	ug/l	98
56) Ethyl methacrylate	8.02	69	50232	20.611	ug/l	98
57) 1,3-Dichloropropane	8.24	76	52630	19.921	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.13	63	130550	104.579	ug/l	100
59) 2-Hexanone	8.36	43	207997	97.965	ug/l	97
60) Dibromochloromethane	8.48	129	27922	20.038	ug/l	99
61) 1,2-Dibromoethane	8.58	107	30793	20.632	ug/l	97
64) Tetrachloroethene	8.23	164	23110	19.906	ug/l	98
65) Chlorobenzene	9.12	112	74138	19.990	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.21	131	25479	21.514	ug/l	99
67) Ethyl Benzene	9.25	91	135794	19.917	ug/l	100
68) m/p-Xylenes	9.37	106	99004	39.907	ug/l	98
69) o-Xylene	9.78	106	48926	20.294	ug/l	99
70) Styrene	9.79	104	78592	19.698	ug/l	99
71) Bromoform	9.96	173	21606	21.445	ug/l #	100
73) Isopropylbenzene	10.17	105	130046	20.600	ug/l	100
74) N-amyl acetate	10.01	43	74923	20.575	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.46	83	52552	21.670	ug/l	99
76) 1,2,3-Trichloropropane	10.49	75	62917	29.949	ug/l	83
77) Bromobenzene	10.45	156	30787	20.852	ug/l	97
78) n-propylbenzene	10.58	91	153753	19.600	ug/l	99
79) 2-Chlorotoluene	10.66	91	92107	20.384	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	107559	20.583	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.49	75	62917	73.386	ug/l #	100
82) 4-Chlorotoluene	10.77	91	104127	19.446	ug/l	100
83) tert-Butylbenzene	11.10	119	102762	20.402	ug/l	99
84) 1,2,4-Trimethylbenzene	11.15	105	108753	20.193	ug/l	98
85) sec-Butylbenzene	11.32	105	130490	20.166	ug/l	99
86) p-Isopropyltoluene	11.48	119	109480	19.917	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	55641	19.958	ug/l	98
88) 1,4-Dichlorobenzene	11.50	146	55021	19.075	ug/l	98
89) n-Butylbenzene	11.89	91	102038	18.343	ug/l	99
90) Hexachloroethane	12.14	117	17523	21.091	ug/l	99
91) 1,2-Dichlorobenzene	11.88	146	55721	19.981	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	11121	21.182	ug/l	91

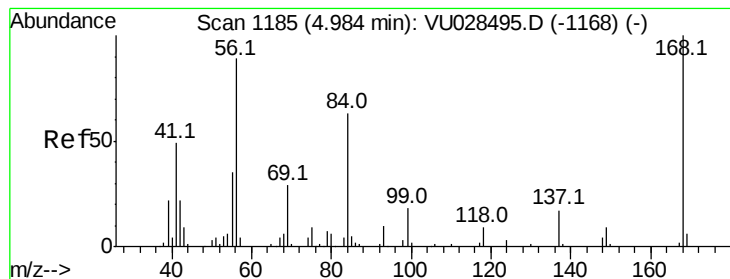
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU121318\
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Instrument :
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ClientSampleId :
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Quant Time: Dec 13 00:45:22 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
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	35902	19.262	ug/l	99
94) Hexachlorobutadiene	13.69	225	17067	18.683	ug/l	97
95) Naphthalene	13.74	128	126753	18.941	ug/l	100
96) 1,2,3-Trichlorobenzene	13.99	180	36624	19.293	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

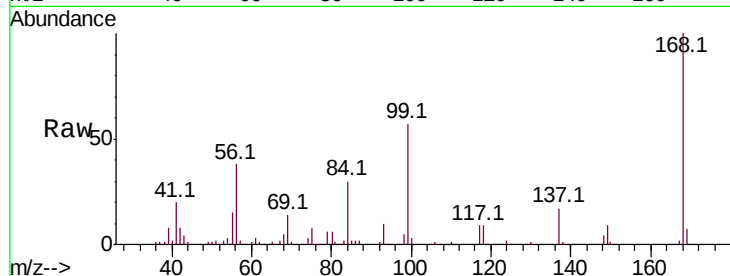
VU1213WBS02

Tot Ion:168 Resp: 111021

Ion Ratio Lower Upper

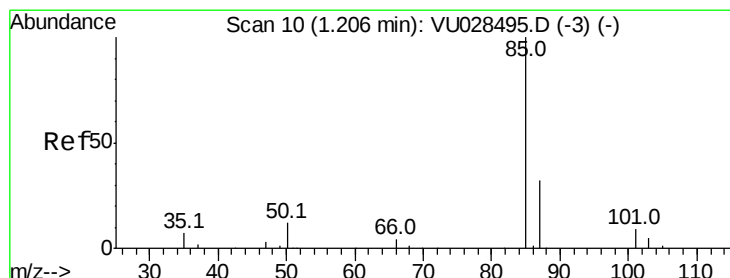
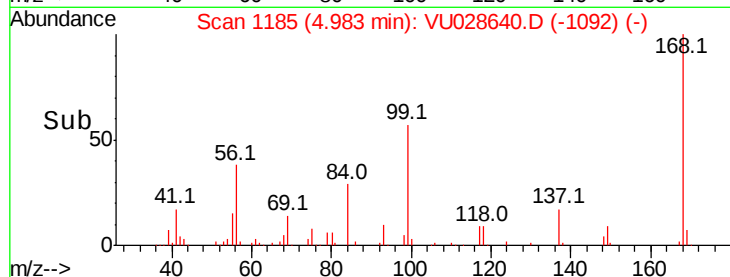
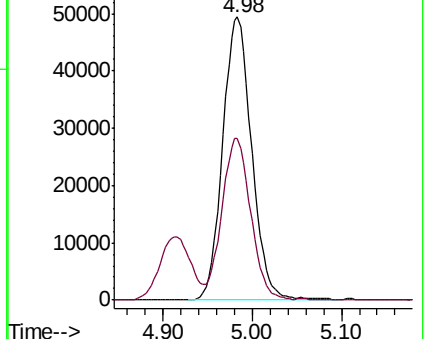
168 100

99 56.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#2

Dichlorodifluoromethane

Concen: 18.983 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028640.D

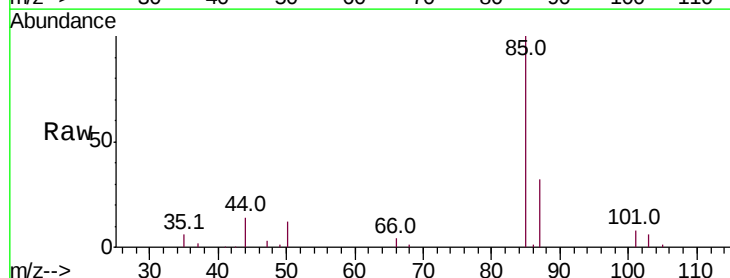
Acq: 12 Dec 2018 10:20

Tgt Ion: 85 Resp: 28249

Ion Ratio Lower Upper

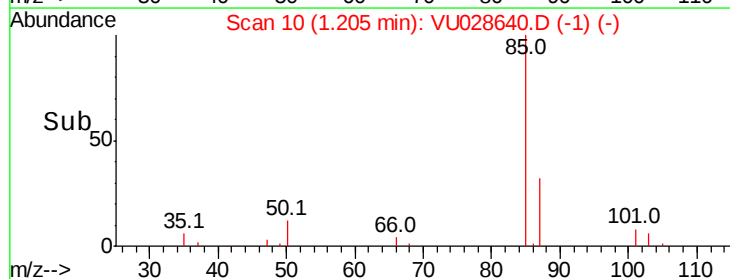
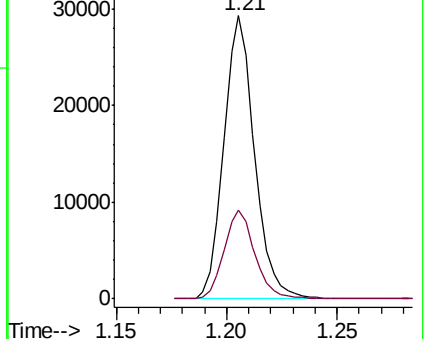
85 100

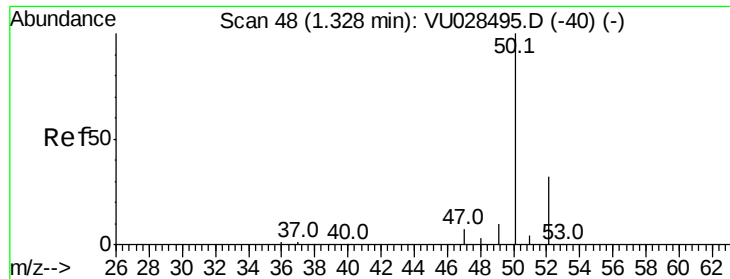
87 31.5 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VU0

Ion 86.90 (86.60 to 87.60): VU0





#3

Chloromethane

Concen: 17.666 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

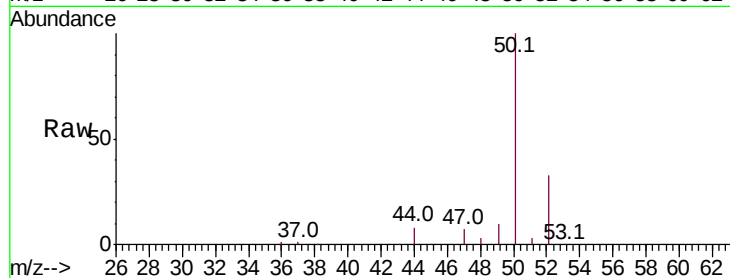
VU1213WBS02

Tot Ion: 50 Resp: 48332

Ion Ratio Lower Upper

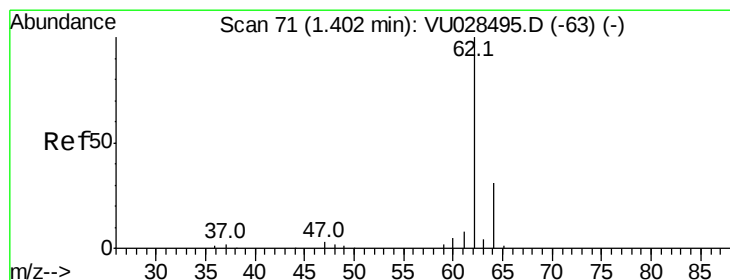
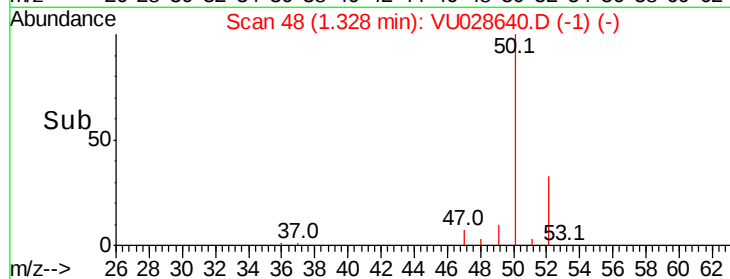
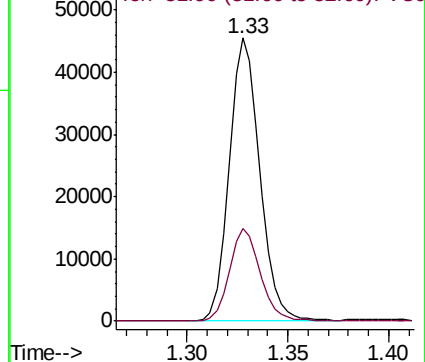
50 100

52 32.8 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 19.436 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028640.D

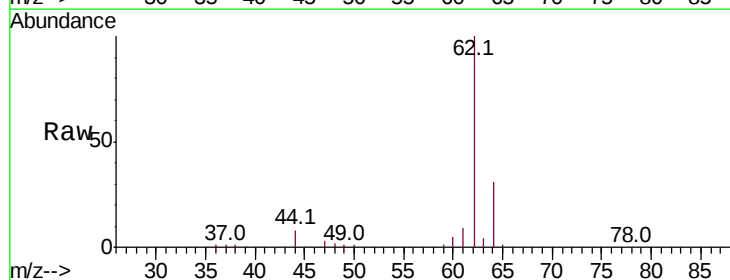
Acq: 12 Dec 2018 10:20

Tgt Ion: 62 Resp: 38373

Ion Ratio Lower Upper

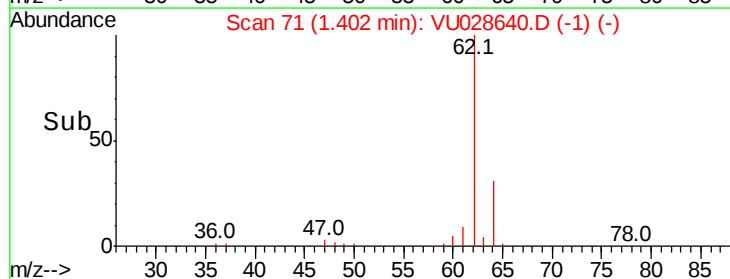
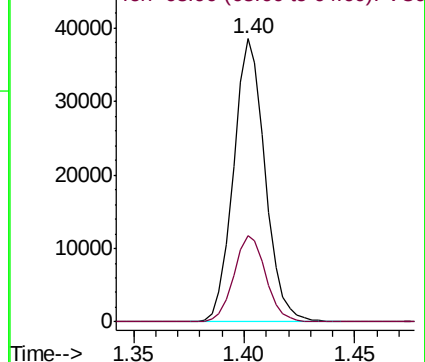
62 100

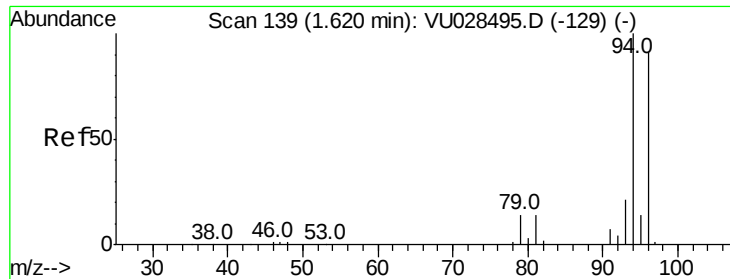
64 30.7 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

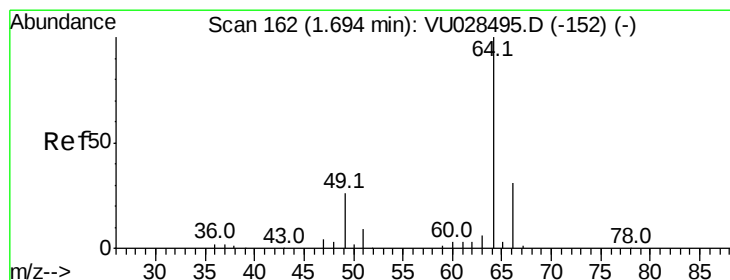
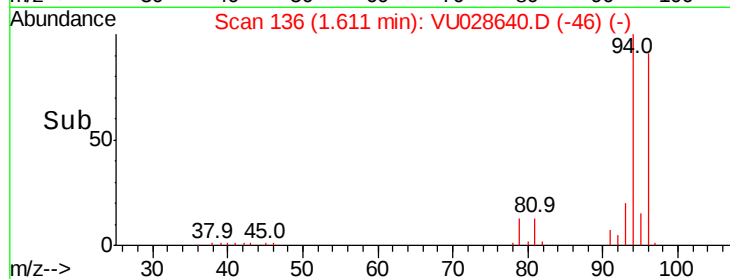
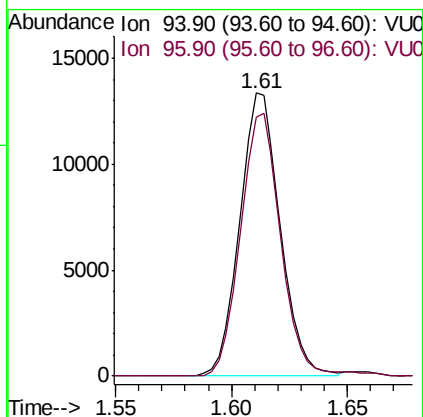
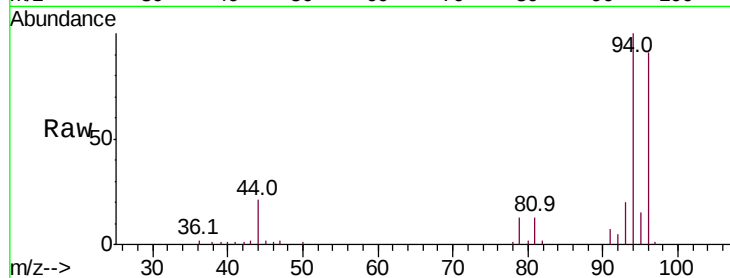




#5
Bromomethane
Concen: 20.328 ug/l
RT: 1.61 min Scan# 136
Delta R.T. -0.01 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

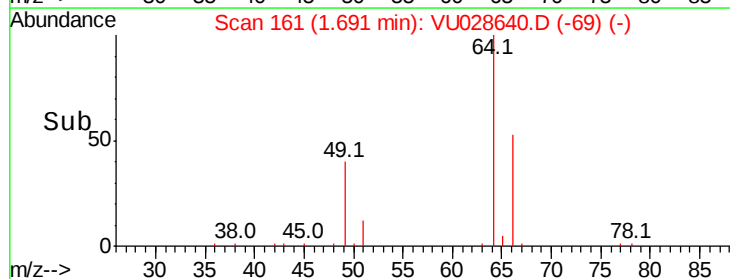
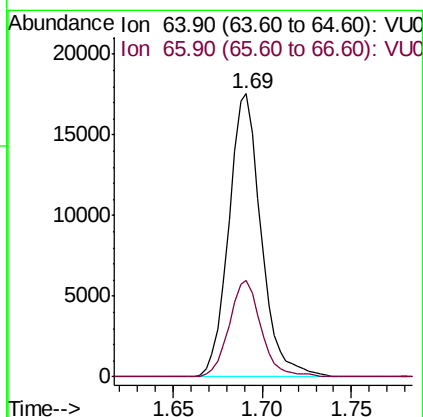
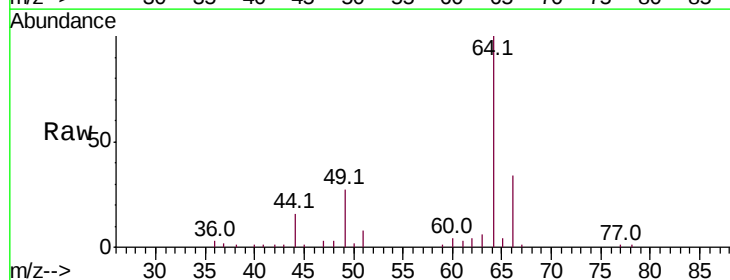
Instrument :
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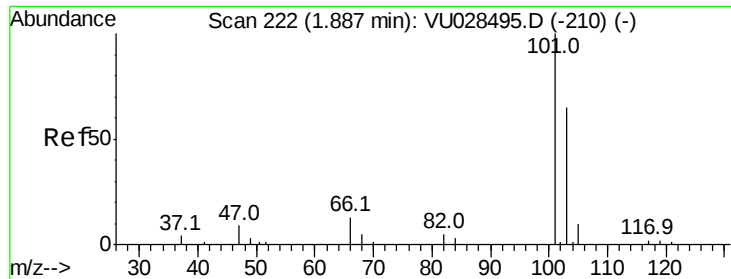
Tot Ion: 94 Resp: 16167
Ion Ratio Lower Upper
94 100
96 91.5 73.2 109.8



#6
Chloroethane
Concen: 19.849 ug/l
RT: 1.69 min Scan# 161
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Tgt Ion: 64 Resp: 22186
Ion Ratio Lower Upper
64 100
66 34.1 25.0 37.6



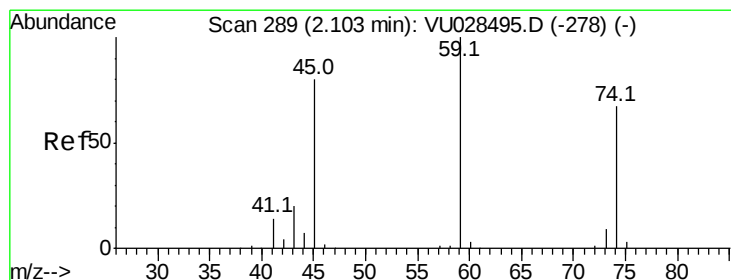
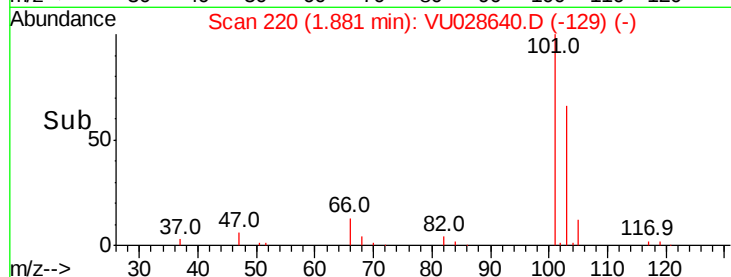
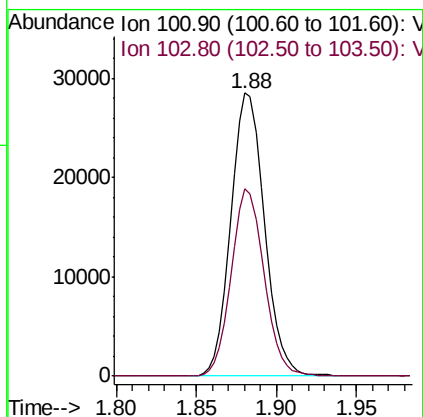
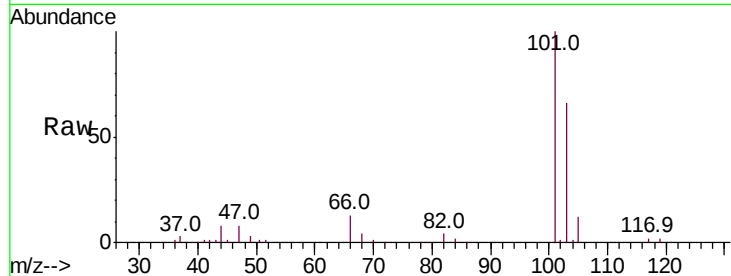


#7

Trichlorofluoromethane
 Concen: 19.594 ug/l
 RT: 1.88 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS02

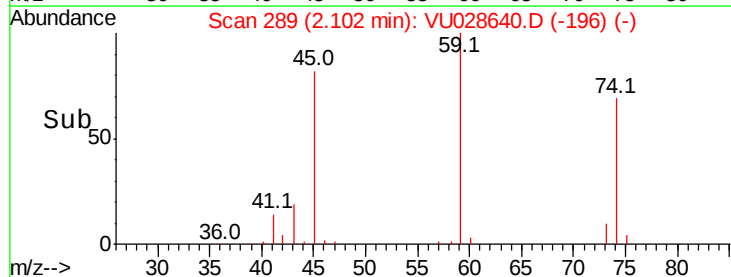
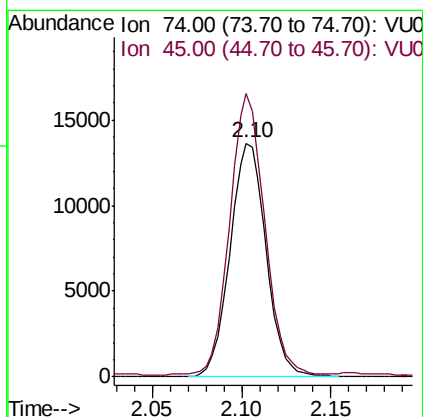
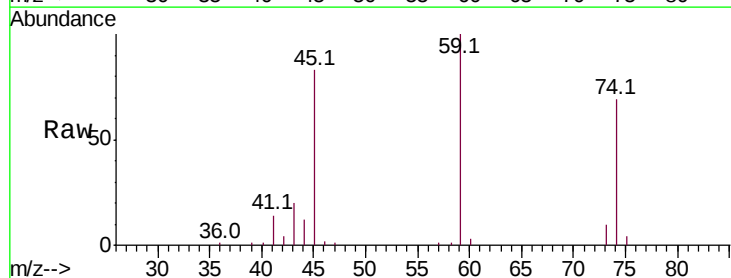
Tot Ion:101 Resp: 40701
 Ion Ratio Lower Upper
 101 100
 103 66.2 52.3 78.5

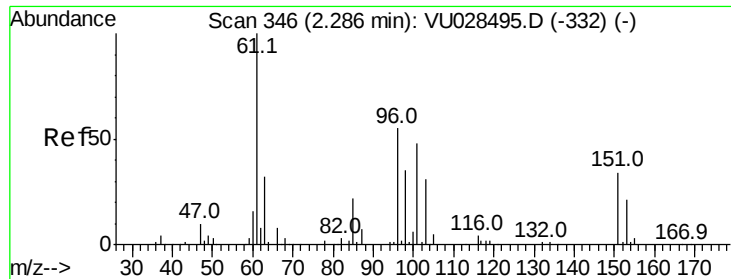


#8

Diethyl Ether
 Concen: 19.733 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Tgt Ion: 74 Resp: 19177
 Ion Ratio Lower Upper
 74 100
 45 117.1 59.7 179.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.528 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS02

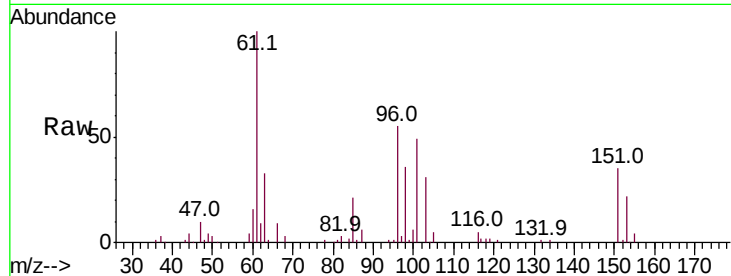
Tot Ion:101 Resp: 24260

Ion Ratio Lower Upper

101 100

85 44.7 36.4 54.6

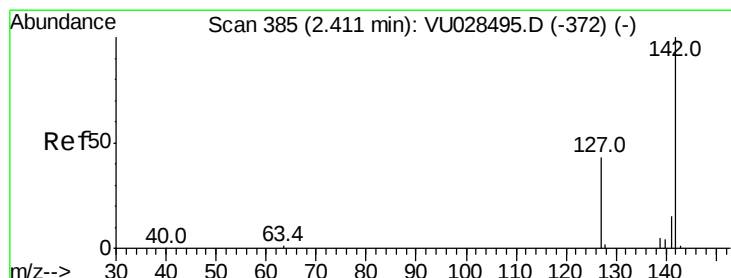
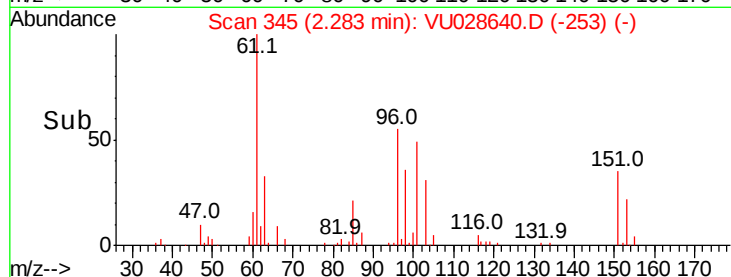
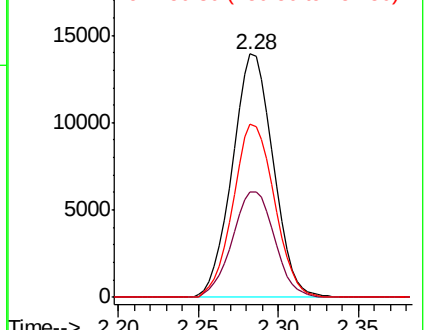
151 72.2 58.2 87.2



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: 25.966 ug/l

RT: 2.41 min Scan# 384

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

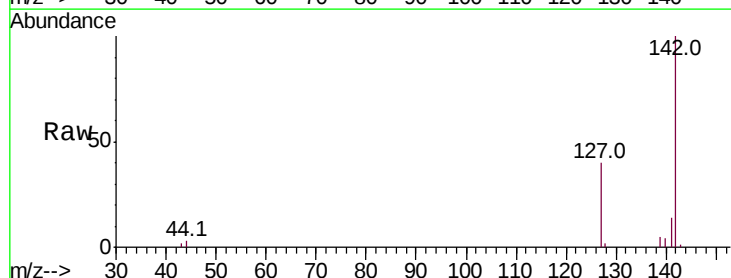
Tgt Ion:142 Resp: 25311

Ion Ratio Lower Upper

142 100

127 39.5 33.5 50.3

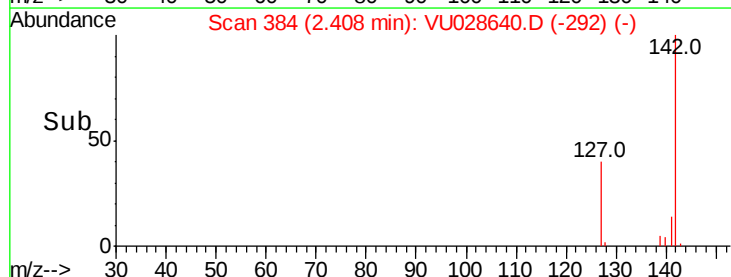
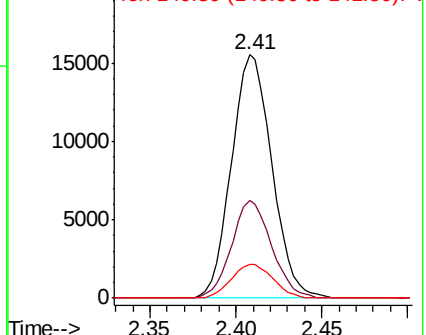
141 14.2 11.2 16.8

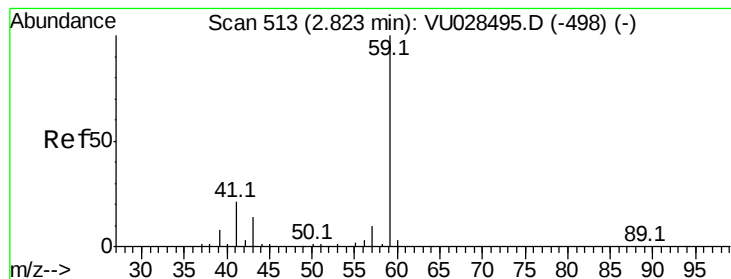


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 96.288 ug/l

RT: 2.83 min Scan# 514

Delta R.T. 0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

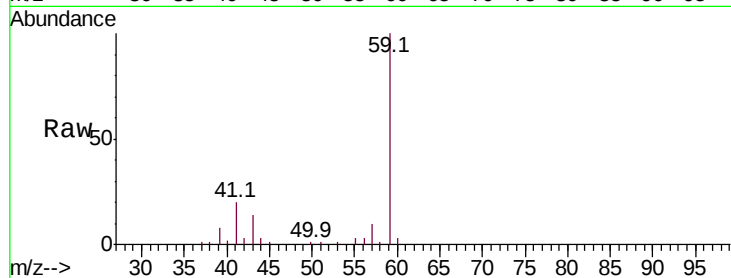
VU1213WBS02

Tot Ion: 59 Resp: 36346

Ion Ratio Lower Upper

59 100

57 9.5 8.0 12.0



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

20000

15000

10000

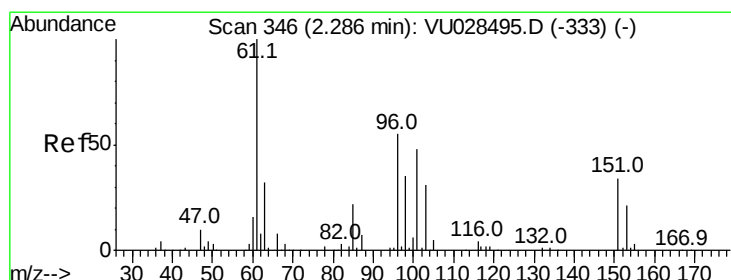
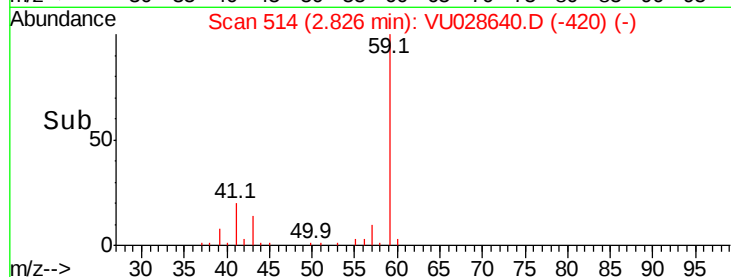
5000

0

Time-->

2.75 2.80 2.85 2.90

2.83



#12

1,1-Dichloroethene

Concen: 18.749 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

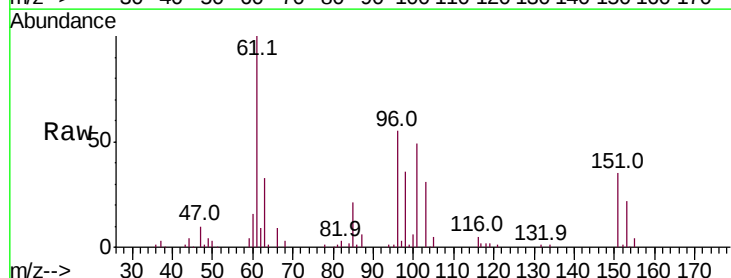
Tgt Ion: 96 Resp: 23175

Ion Ratio Lower Upper

96 100

61 181.2 146.4 219.6

98 64.9 51.8 77.8



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

30000

20000

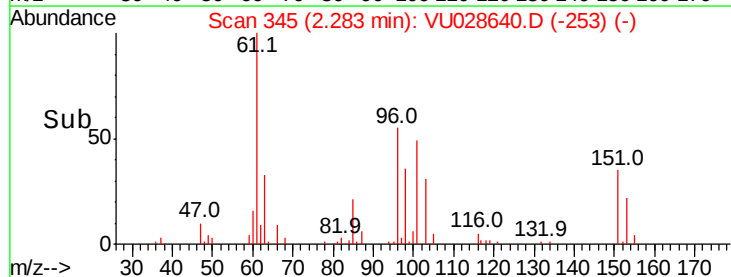
10000

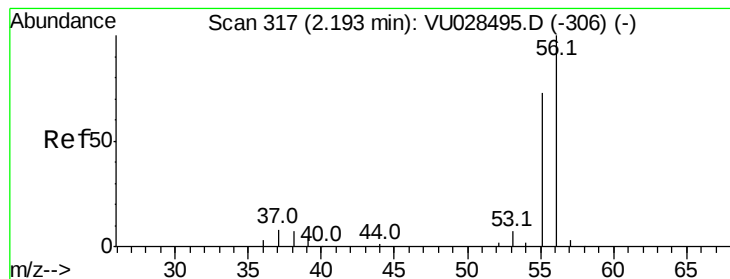
0

Time-->

2.25 2.30 2.35

2.28





#13

Acrolein

Concen: 87.070 ug/l

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

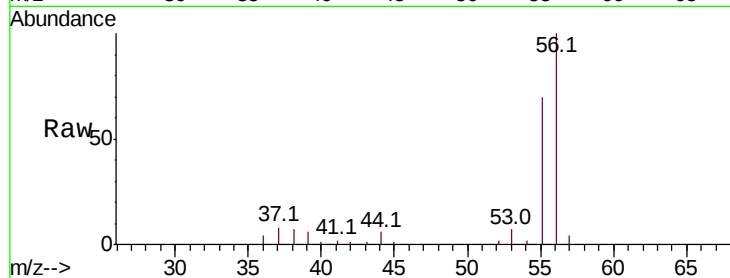
VU1213WBS02

Tot Ion: 56 Resp: 26201

Ion Ratio Lower Upper

56 100

55 72.1 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

2.19

20000

15000

10000

5000

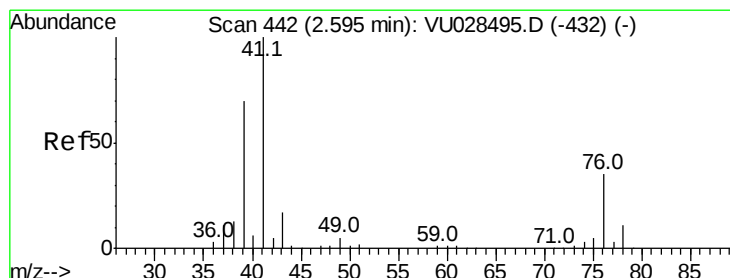
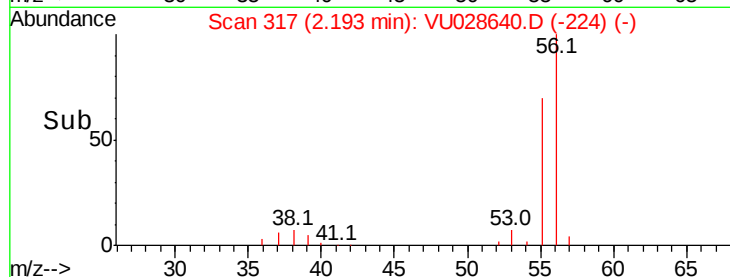
0

Time-->

2.15

2.20

2.25



#14

Allyl chloride

Concen: 20.220 ug/l

RT: 2.59 min Scan# 441

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

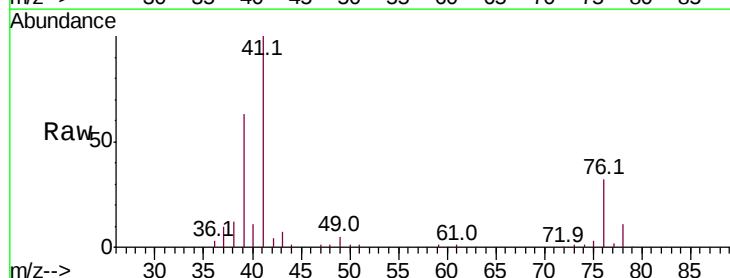
Tgt Ion: 41 Resp: 59128

Ion Ratio Lower Upper

41 100

39 56.9 50.8 76.2

76 28.6 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

60000

40000

20000

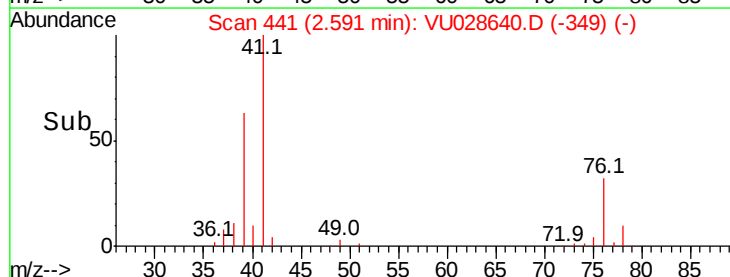
0

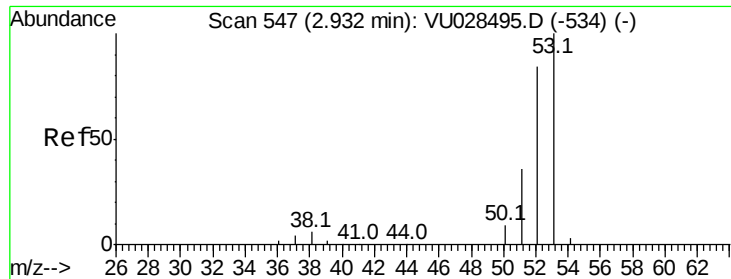
Time-->

2.50

2.60

2.70





#15

Acrylonitrile

Concen: 100.492 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS02

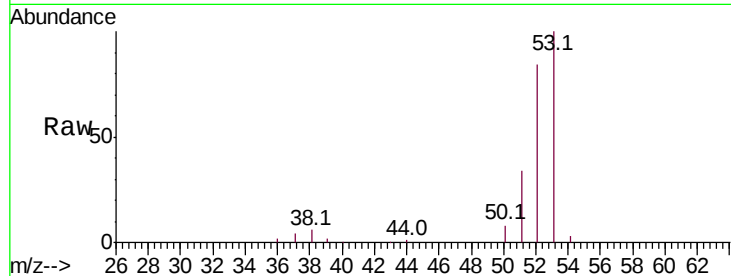
Tot Ion: 53 Resp: 105314

Ion Ratio Lower Upper

53 100

52 82.2 66.1 99.1

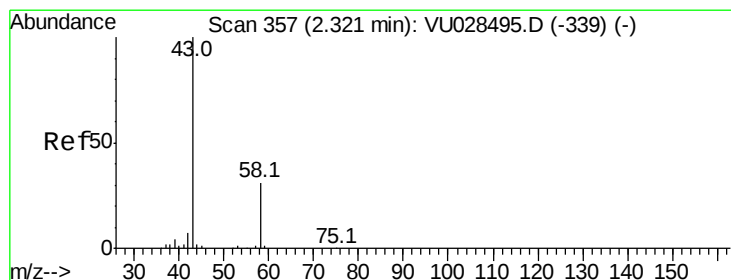
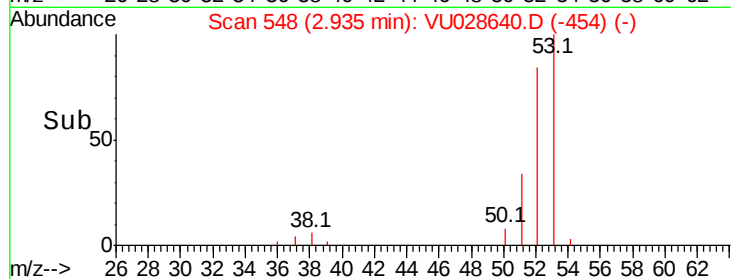
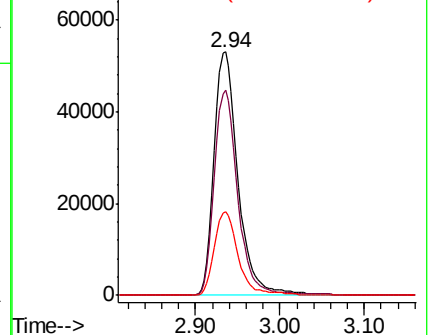
51 34.4 28.1 42.1



Abundance Ion 53.00 (52.70 to 53.70): VU028640.D (-534) (-)

Ion 52.00 (51.70 to 52.70): VU028640.D (-534) (-)

Ion 51.00 (50.70 to 51.70): VU028640.D (-534) (-)



#16

Acetone

Concen: 90.220 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028640.D

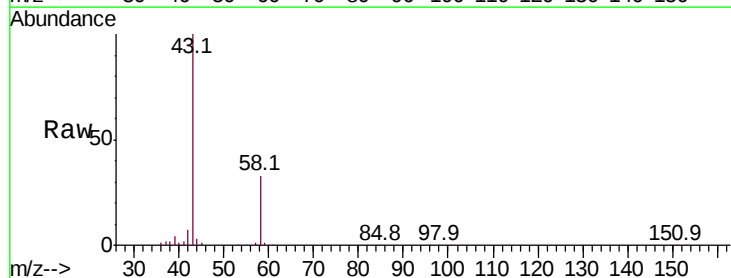
Acq: 12 Dec 2018 10:20

Tgt Ion: 43 Resp: 99745

Ion Ratio Lower Upper

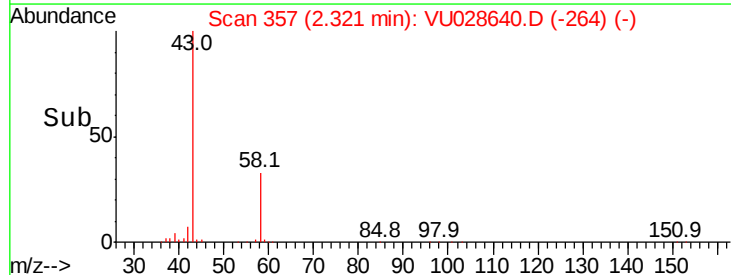
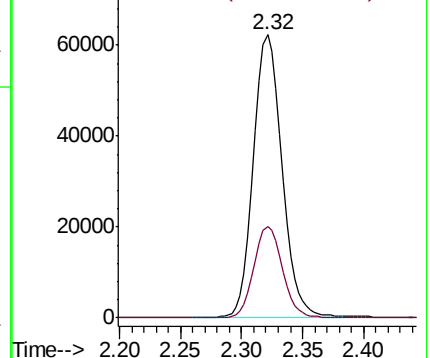
43 100

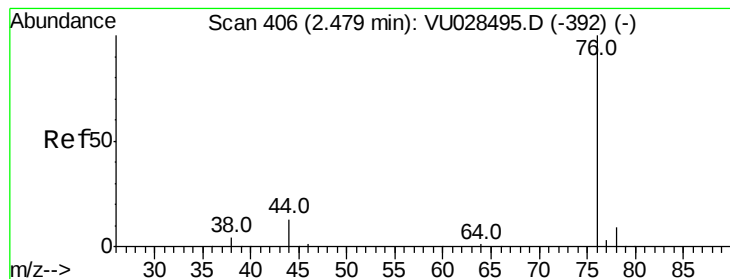
58 32.6 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU028640.D (-264) (-)

Ion 58.00 (57.70 to 58.70): VU028640.D (-264) (-)





#17

Carbon Disulfide

Concen: 18.057 ug/l

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

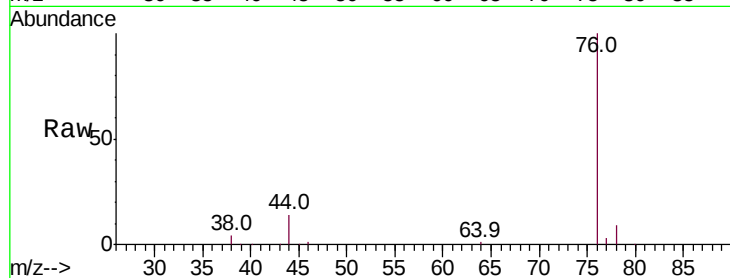
VU1213WBS02

Tot Ion: 76 Resp: 80409

Ion Ratio Lower Upper

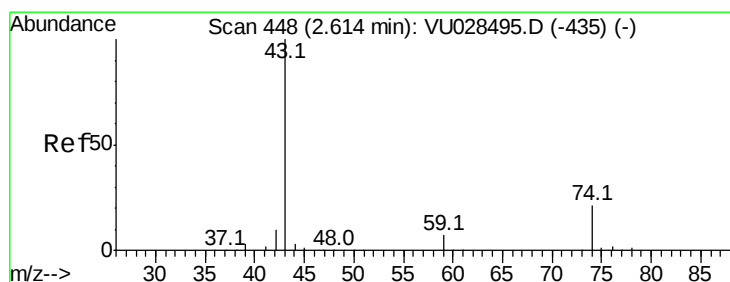
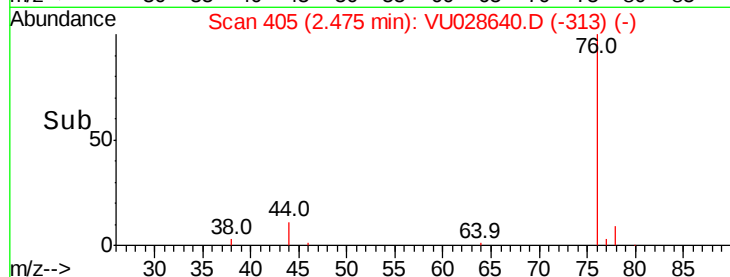
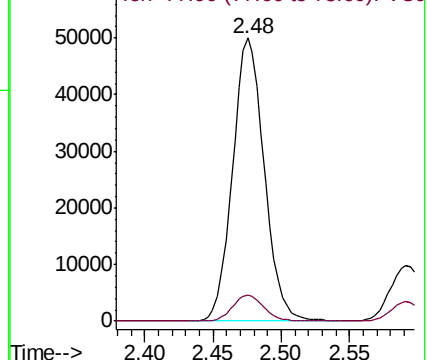
76 100

78 9.1 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#18

Methyl Acetate

Concen: 22.294 ug/l

RT: 2.62 min Scan# 449

Delta R.T. 0.00 min

Lab File: VU028640.D

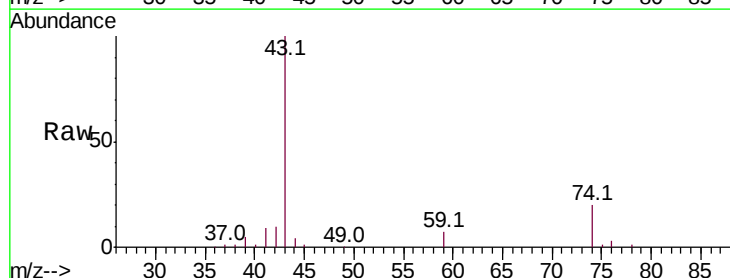
Acq: 12 Dec 2018 10:20

Tgt Ion: 43 Resp: 63893

Ion Ratio Lower Upper

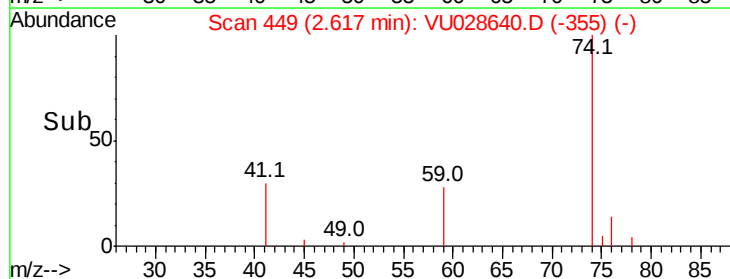
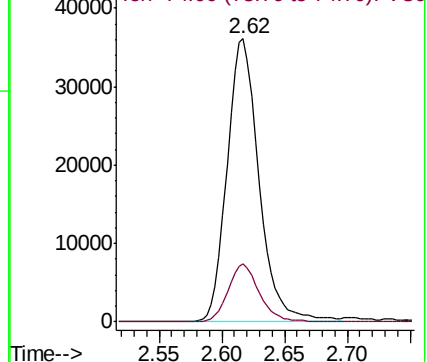
43 100

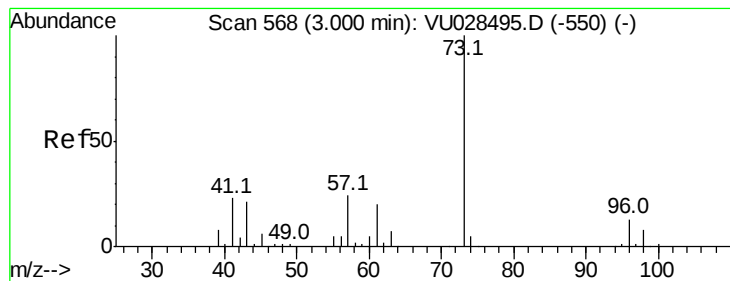
74 20.0 16.4 24.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



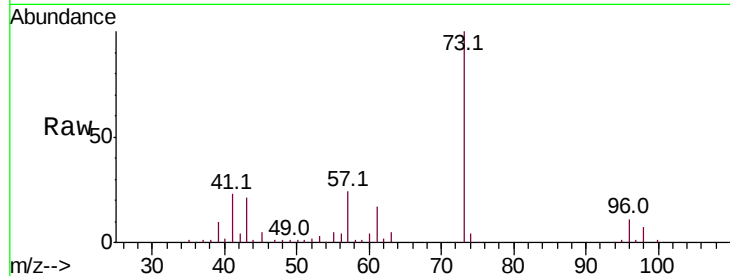


#19

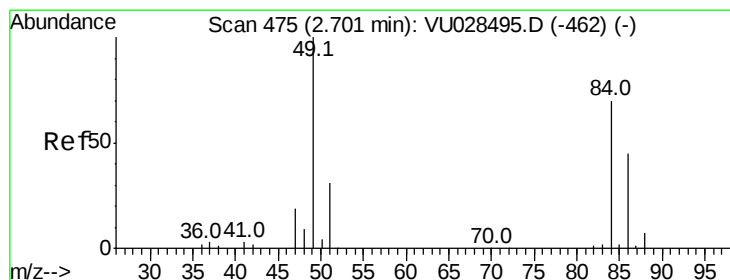
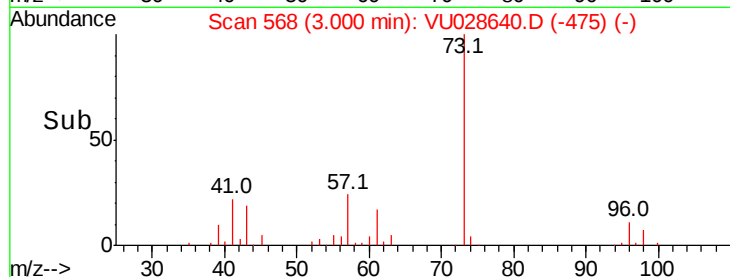
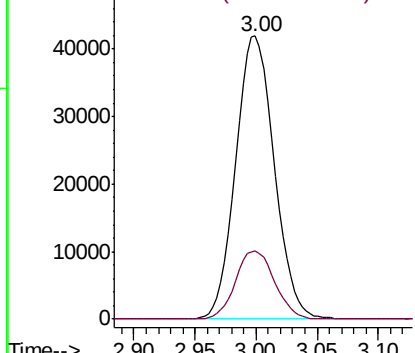
Methyl tert-butyl Ether
 Concen: 19.569 ug/l
 RT: 3.00 min Scan# 568
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS02

Tot Ion: 73 Resp: 91698
 Ion Ratio Lower Upper
 73 100
 57 23.9 19.4 29.2



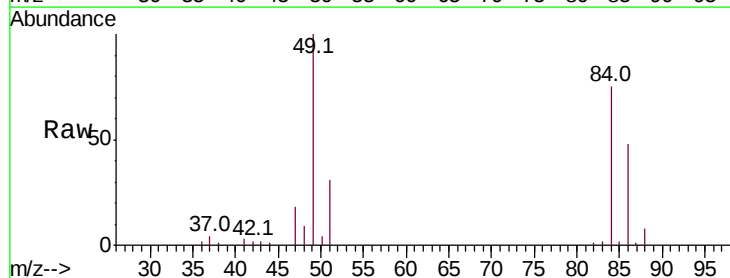
Abundance Ion 73.00 (72.70 to 73.70): VU028495.D (-550) (-)
 Ion 57.00 (56.70 to 57.70): VU028495.D (-550) (-)



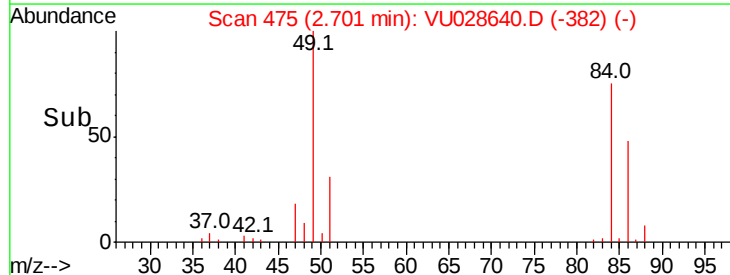
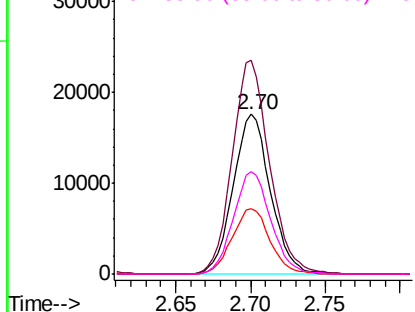
#20

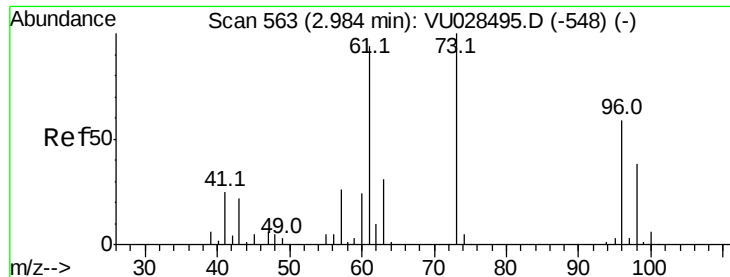
Methylene Chloride
 Concen: 18.683 ug/l
 RT: 2.70 min Scan# 475
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Tgt Ion: 84 Resp: 30449
 Ion Ratio Lower Upper
 84 100
 49 133.8 114.0 171.0
 51 40.9 35.1 52.7
 86 64.0 51.0 76.6



Abundance Ion 83.90 (83.60 to 84.60): VU028495.D (-462) (-)
 Ion 48.90 (48.60 to 49.60): VU028495.D (-462) (-)
 Ion 50.90 (50.60 to 51.60): VU028495.D (-462) (-)
 Ion 85.90 (85.60 to 86.60): VU028495.D (-462) (-)





#21

trans-1,2-Dichloroethene

Concen: 19.113 ug/l

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS02

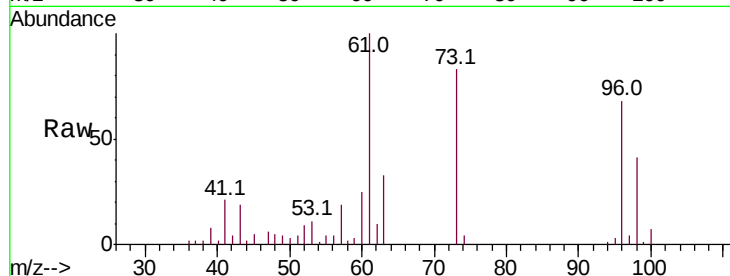
Tot Ion: 96 Resp: 26600

Ion Ratio Lower Upper

96 100

61 147.6 127.0 190.4

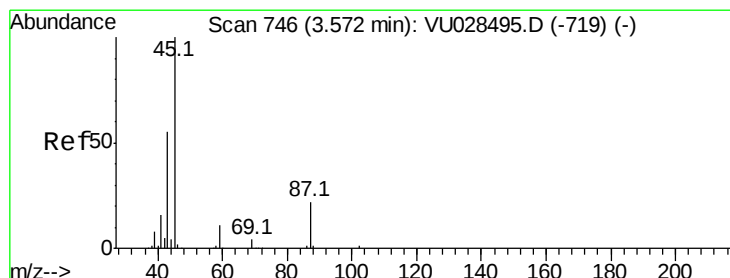
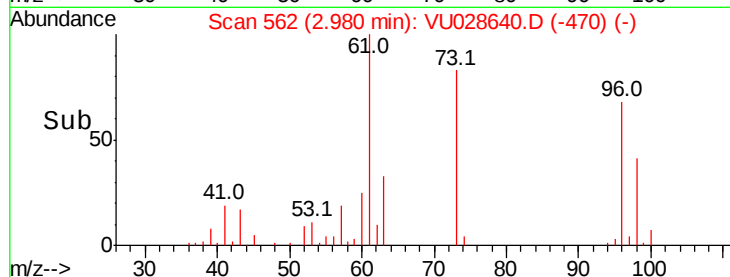
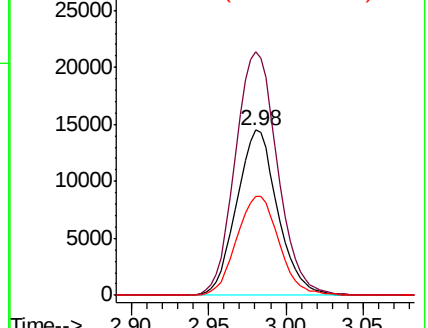
98 59.8 51.9 77.9



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: 19.344 ug/l

RT: 3.57 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Tgt Ion: 45 Resp: 110002

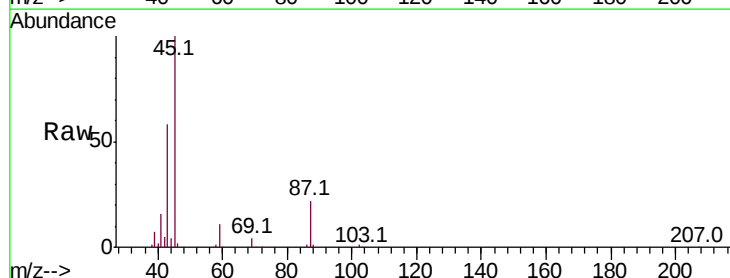
Ion Ratio Lower Upper

45 100

43 56.0 45.3 67.9

87 22.5 17.6 26.4

59 11.3 8.8 13.2

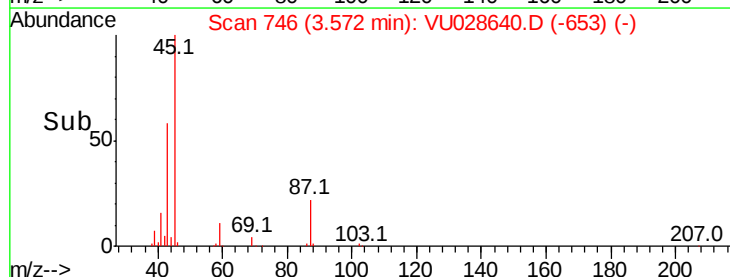
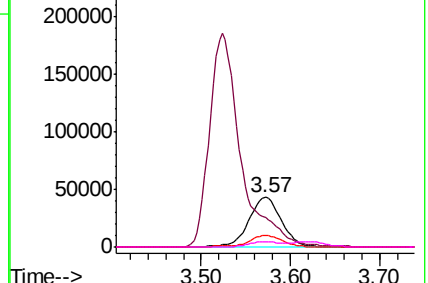


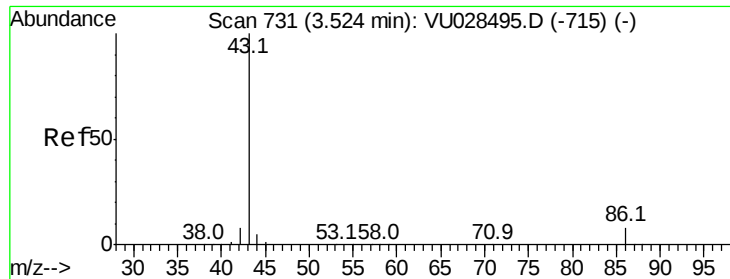
Abundance Ion 45.00 (44.70 to 45.70): VU0

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: 96.812 ug/l

RT: 3.52 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

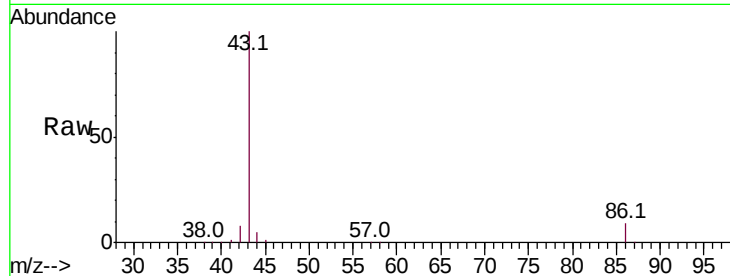
VU1213WBS02

Tot Ion: 43 Resp: 454096

Ion Ratio Lower Upper

43 100

86 9.1 6.8 10.2



Abundance Ion 43.00 (42.70 to 43.70): VU028640.D (-638) (-)

Ion 86.00 (85.70 to 86.70): VU028640.D (-638) (-)

3.52

200000

150000

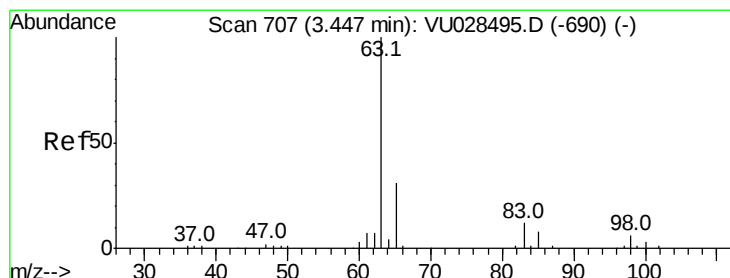
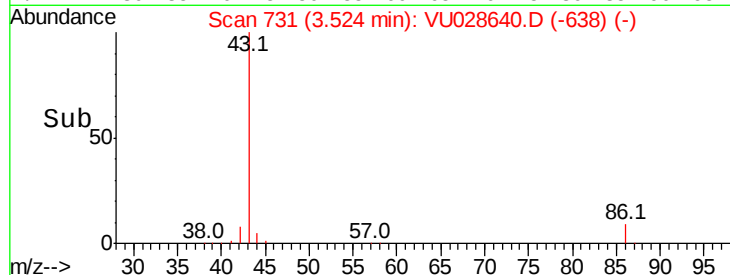
100000

50000

0

3.40 3.50 3.60 3.70

Time-->



#24

1,1-Dichloroethane

Concen: 19.046 ug/l

RT: 3.44 min Scan# 706

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

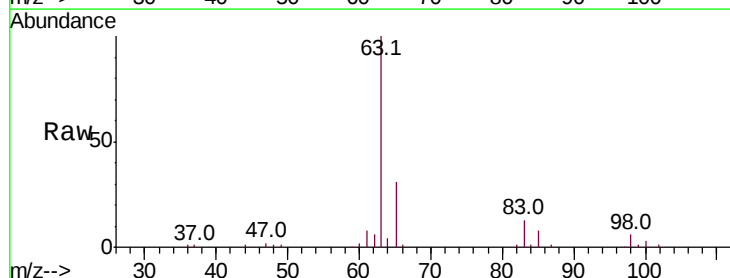
Tgt Ion: 63 Resp: 56693

Ion Ratio Lower Upper

63 100

98 5.8 3.0 9.2

100 3.4 1.7 5.1



Abundance Ion 62.90 (62.60 to 63.60): VU028640.D (-614) (-)

Ion 97.90 (97.60 to 98.60): VU028640.D (-614) (-)

Ion 99.90 (99.60 to 100.60): VU028640.D (-614) (-)

3.44

30000

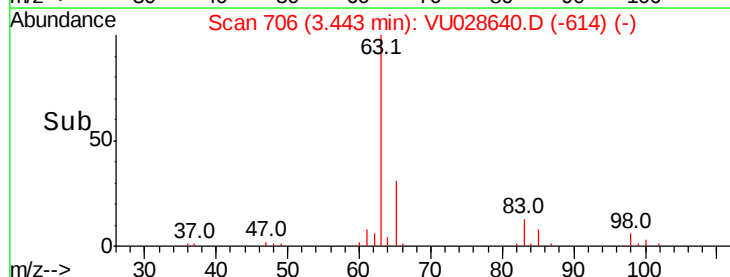
20000

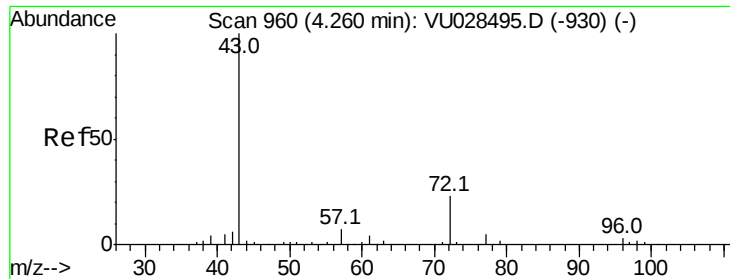
10000

0

3.35 3.40 3.45 3.50 3.55

Time-->





#25

2-Butanone

Concen: 97.638 ug/l

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

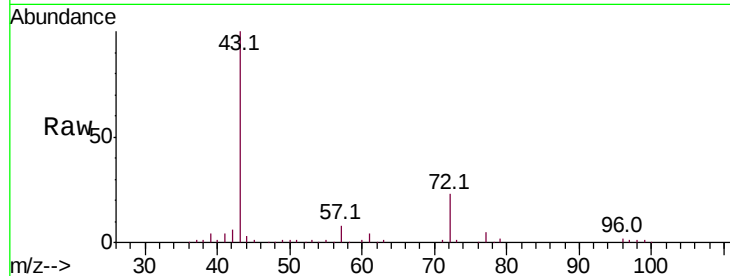
VU1213WBS02

Tot Ion: 43 Resp: 147519

Ion Ratio Lower Upper

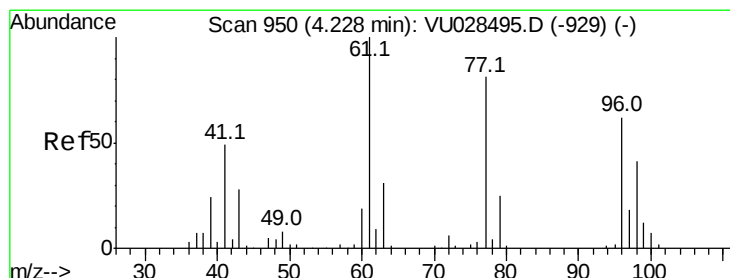
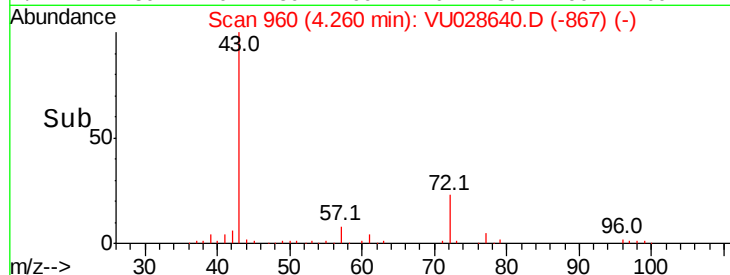
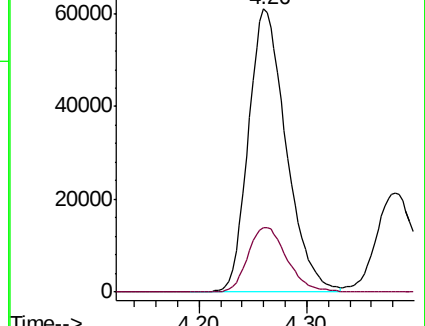
43 100

72 23.0 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 19.180 ug/l

RT: 4.22 min Scan# 949

Delta R.T. -0.00 min

Lab File: VU028640.D

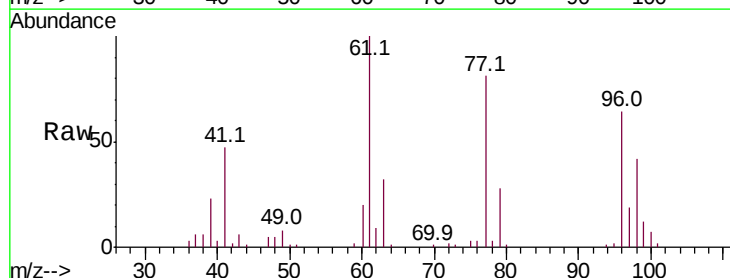
Acq: 12 Dec 2018 10:20

Tgt Ion: 77 Resp: 45238

Ion Ratio Lower Upper

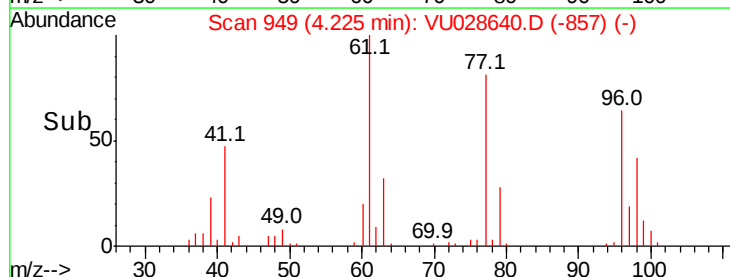
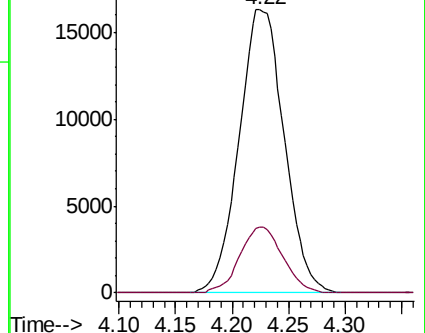
77 100

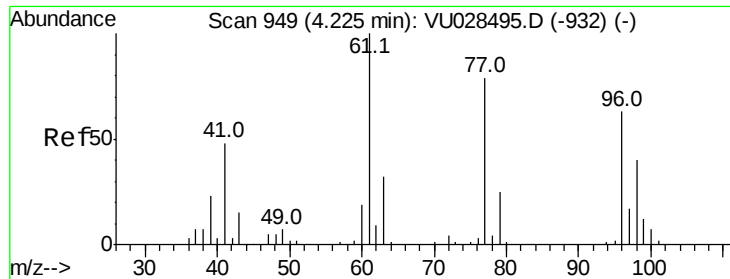
97 22.2 11.0 33.0



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#27

cis-1,2-Dichloroethene

Concen: 19.368 ug/l

RT: 4.22 min Scan# 949

Delta R.T. -0.00 min

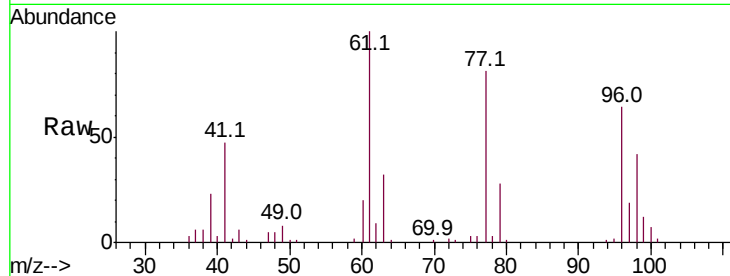
Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS02

Tot Ion: 96 Resp: 30509

Ion	Ratio	Lower	Upper
96	100		
61	162.2	0.0	332.4
98	65.6	0.0	129.0

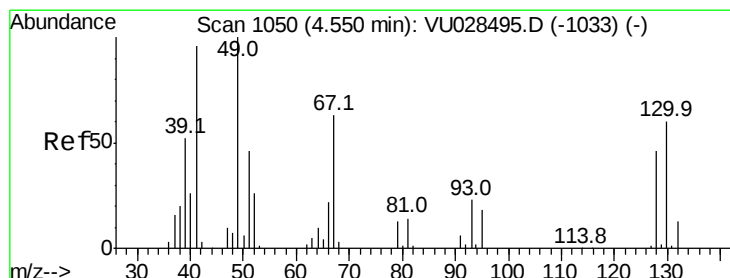
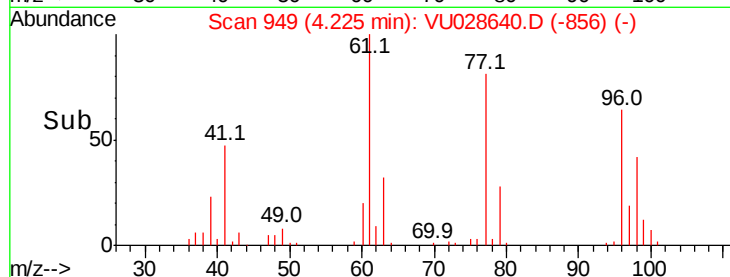
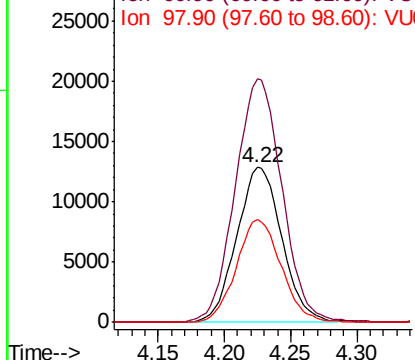


Abundance

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: 20.192 ug/l

RT: 4.55 min Scan# 1049

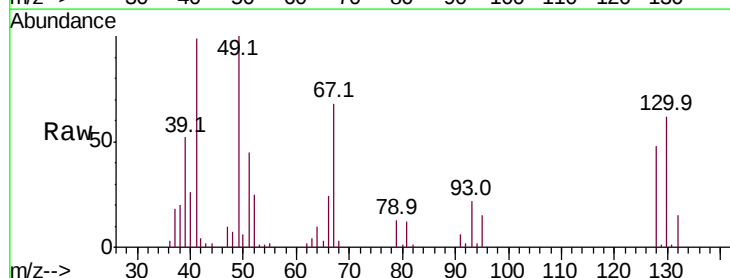
Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Tgt Ion: 49 Resp: 27324

Ion	Ratio	Lower	Upper
49	100		
129	0.6	0.0	3.0
130	62.9	47.8	71.8

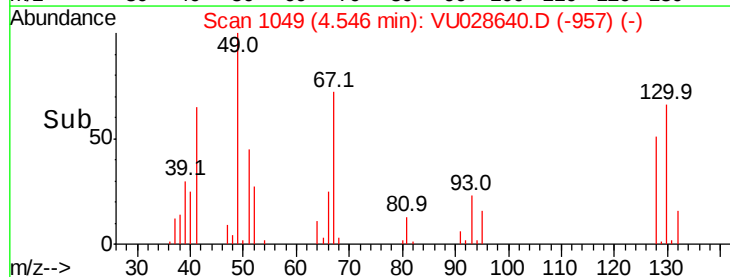
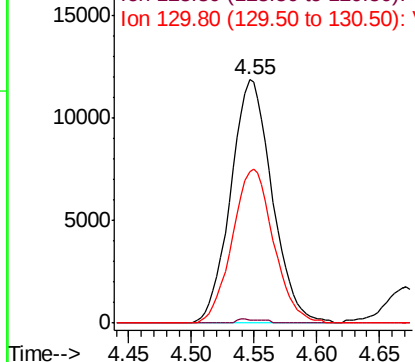


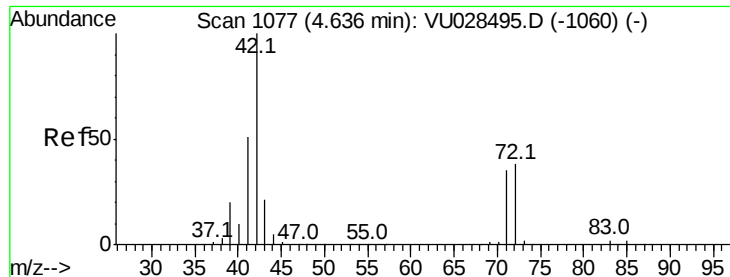
Abundance

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: 99.522 ug/l

RT: 4.64 min Scan# 1078

Delta R.T. 0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS02

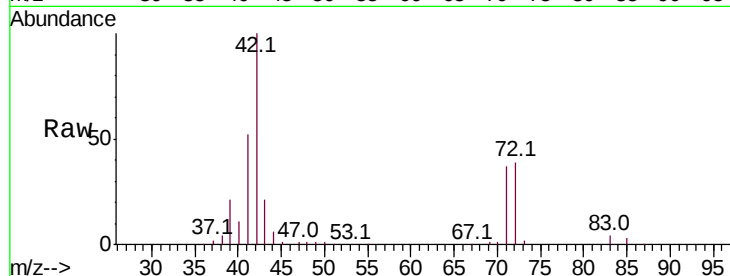
Tot Ion: 42 Resp: 96571

Ion Ratio Lower Upper

42 100

72 39.5 31.4 47.0

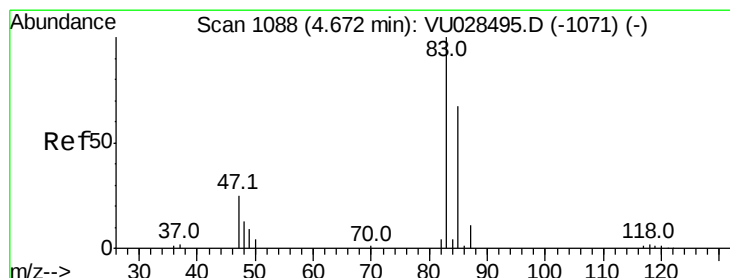
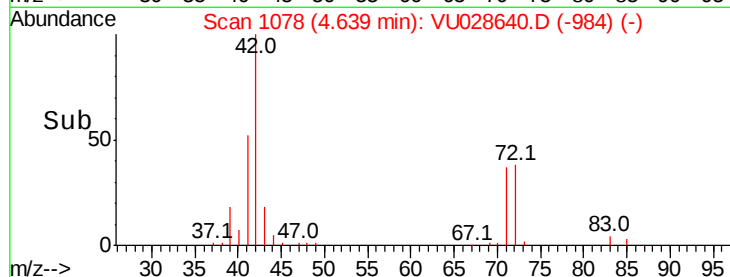
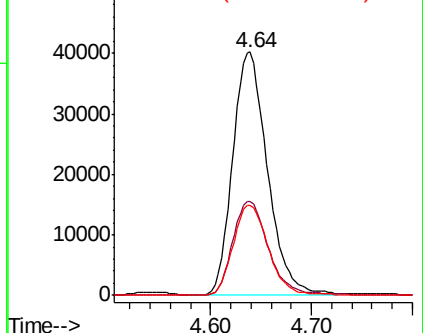
71 37.4 28.6 43.0



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: 19.669 ug/l

RT: 4.67 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VU028640.D

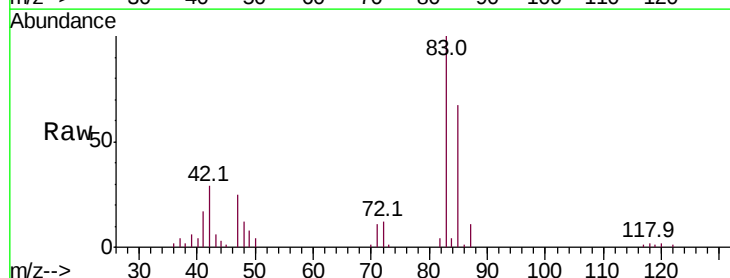
Acq: 12 Dec 2018 10:20

Tgt Ion: 83 Resp: 51029

Ion Ratio Lower Upper

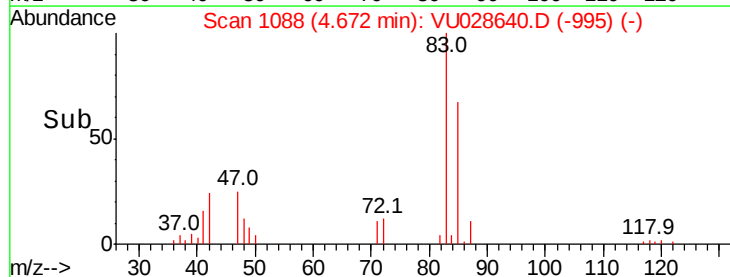
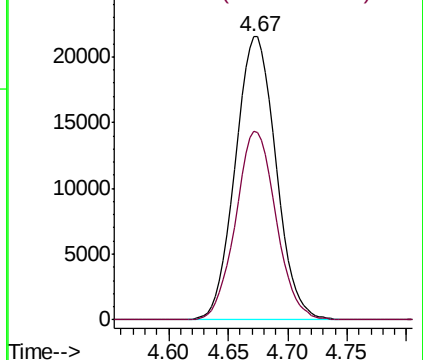
83 100

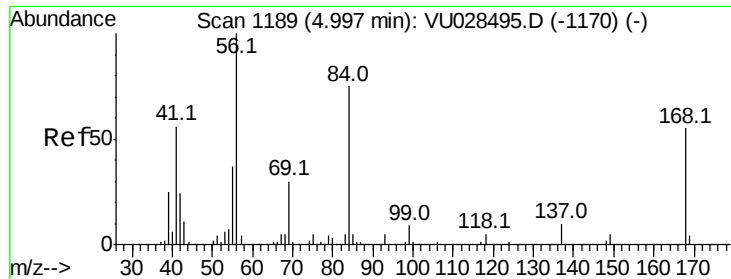
85 66.6 53.6 80.4



Abundance Ion 82.90 (82.60 to 83.60): VU0

Ion 84.90 (84.60 to 85.60): VU0





#31

Cyclohexane

Concen: 18.501 ug/l

RT: 4.99 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS02

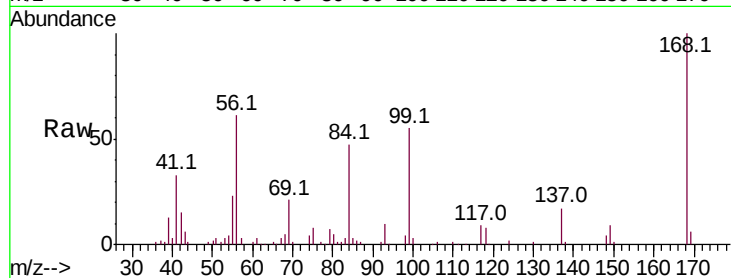
Tot Ion: 56 Resp: 55932

Ion Ratio Lower Upper

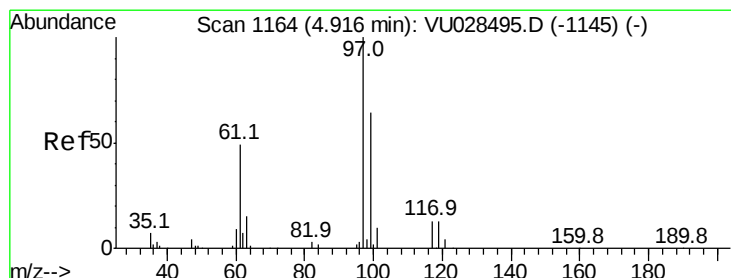
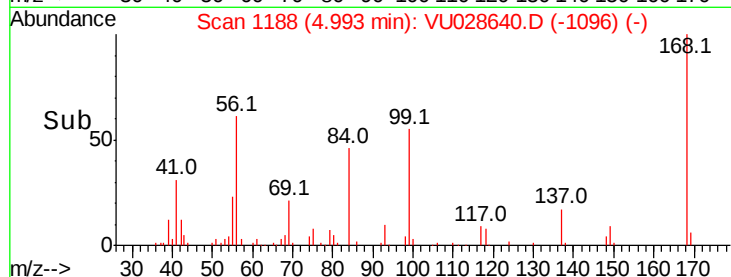
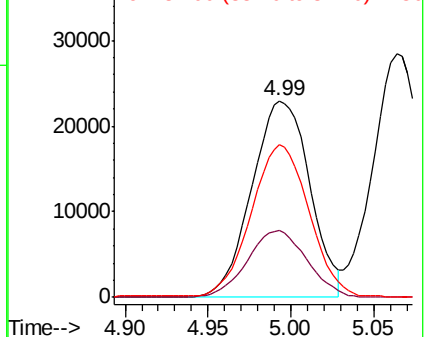
56 100

69 34.0 24.0 36.0

84 77.1 59.7 89.5



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



#32

1,1,1-Trichloroethane

Concen: 19.571 ug/l

RT: 4.92 min Scan# 1164

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

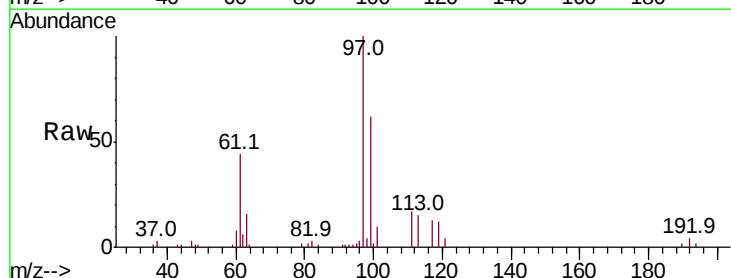
Tgt Ion: 97 Resp: 42169

Ion Ratio Lower Upper

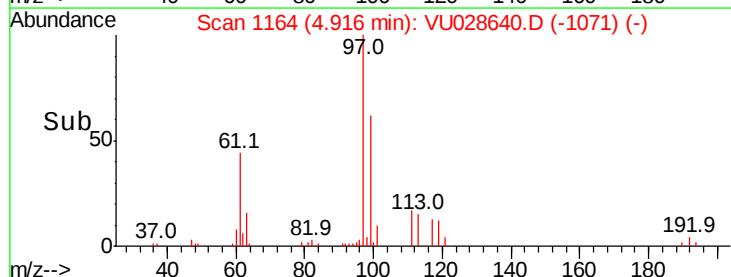
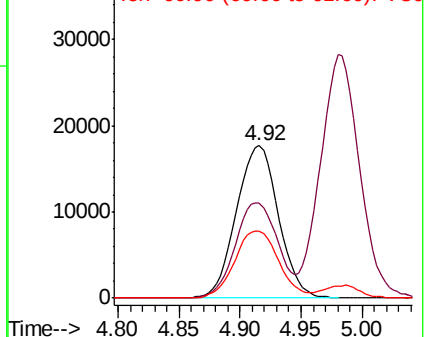
97 100

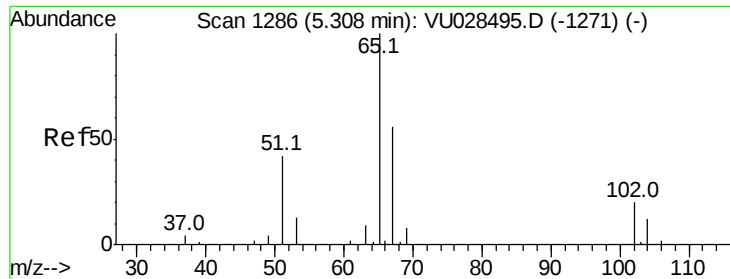
99 63.6 52.3 78.5

61 46.4 39.0 58.6



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

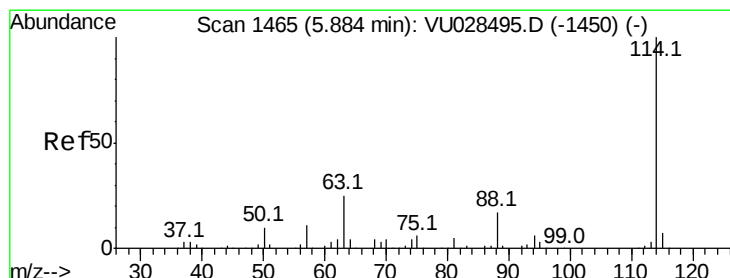
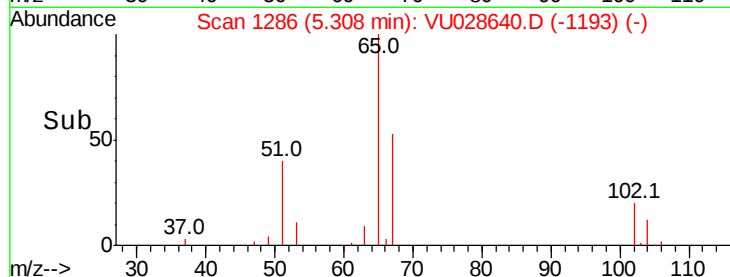
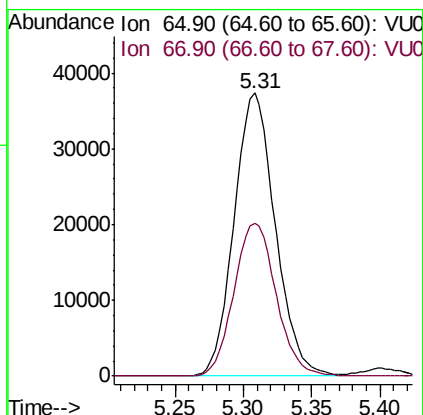
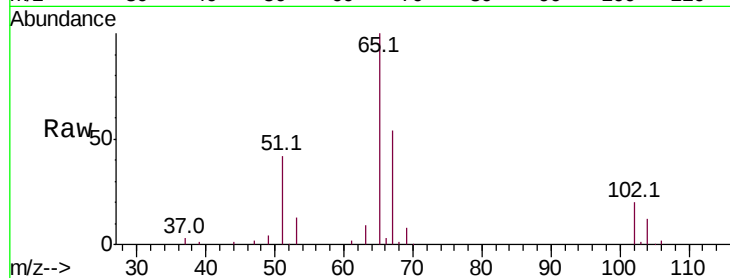




#33
 1,2-Dichloroethane-d4
 Concen: 46.184 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

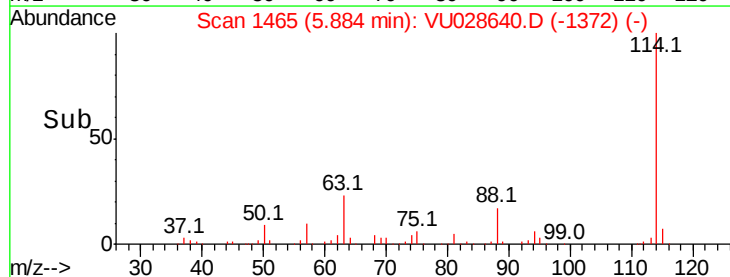
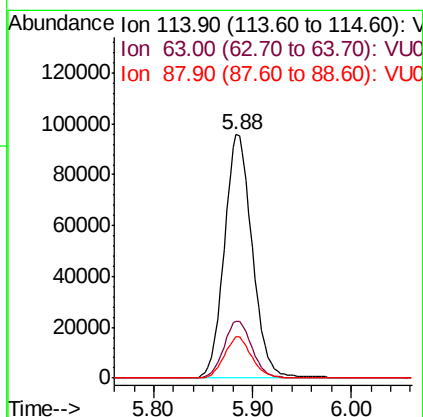
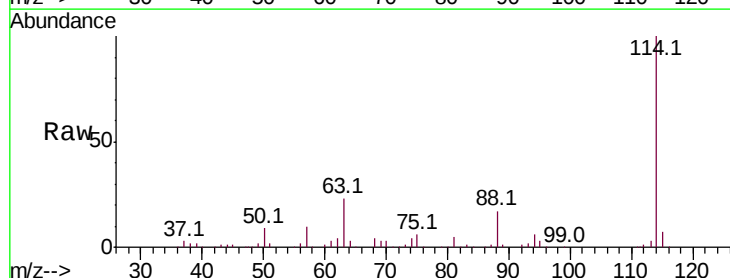
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS02

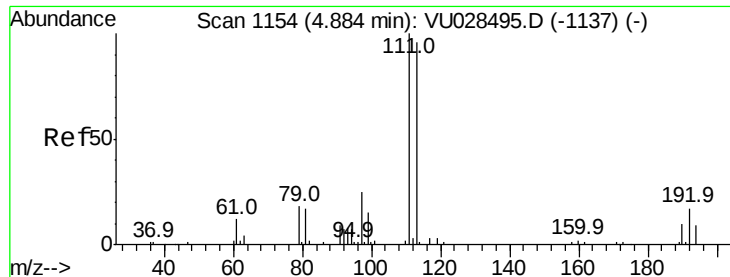
Tot Ion: 65 Resp: 78248
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Tgt Ion: 114 Resp: 189821
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 49.2
 88 16.7 0.0 33.4

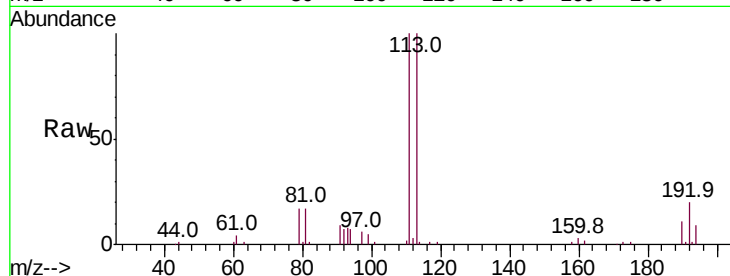




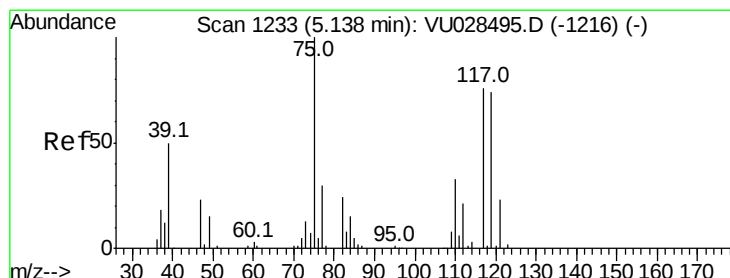
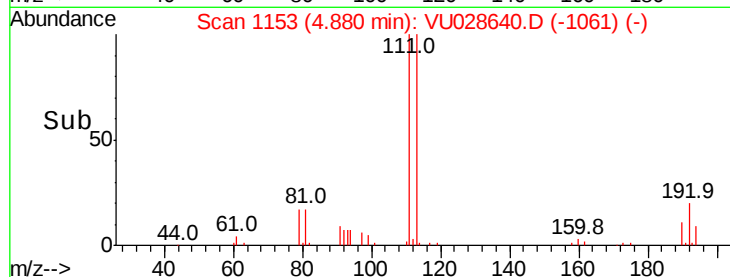
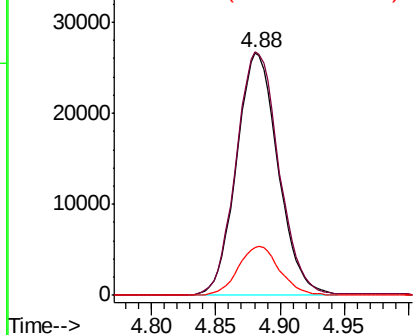
#35
 Dibromofluoromethane
 Concen: 50.070 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS02

Tot Ion:113 Resp: 59812
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.4 125.0
 192 20.1 14.8 22.2

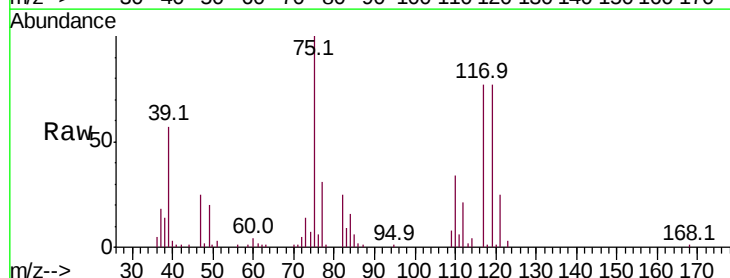


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

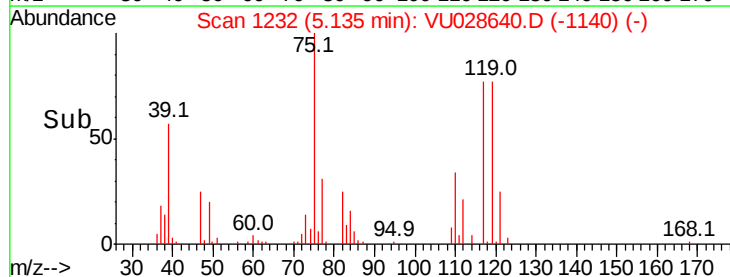
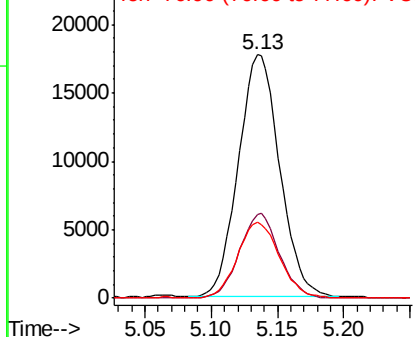


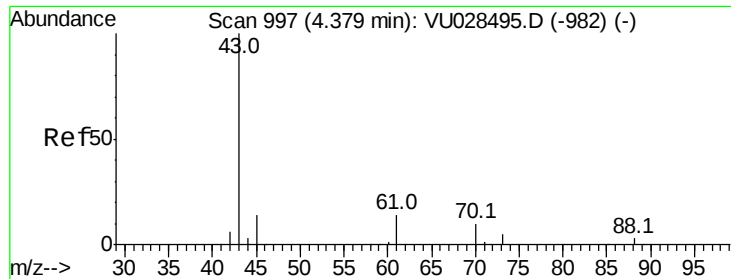
#36
 1,1-Dichloropropene
 Concen: 18.481 ug/l
 RT: 5.13 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Tgt Ion: 75 Resp: 38389
 Ion Ratio Lower Upper
 75 100
 110 33.5 16.1 48.2
 77 31.8 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

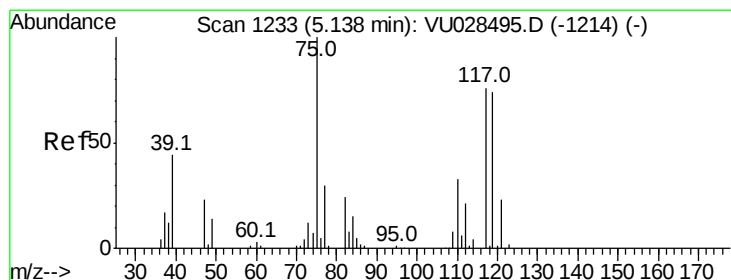
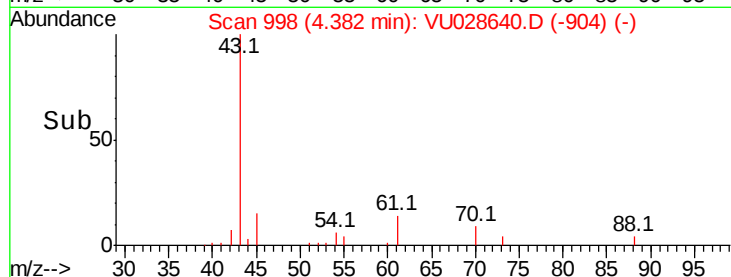
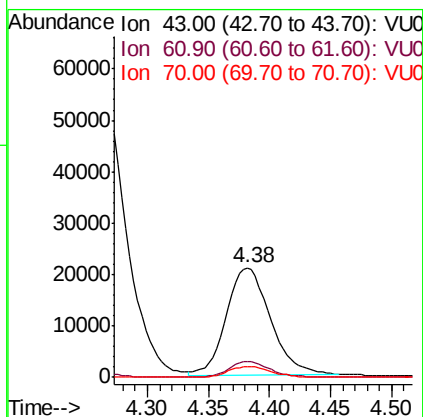
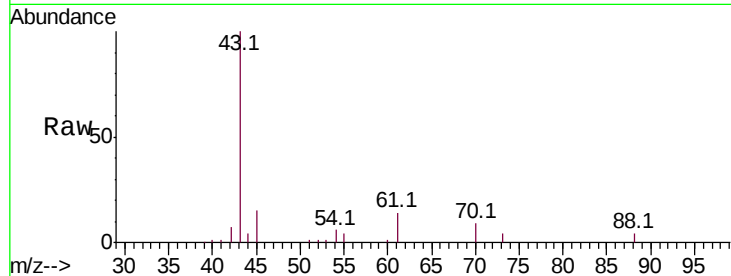




#37
Ethyl Acetate
Concen: 19.556 ug/l
RT: 4.38 min Scan# 998
Delta R.T. 0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

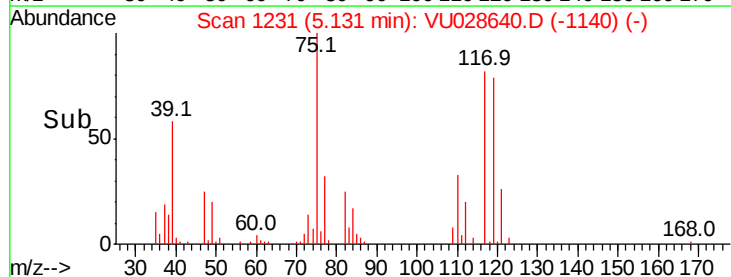
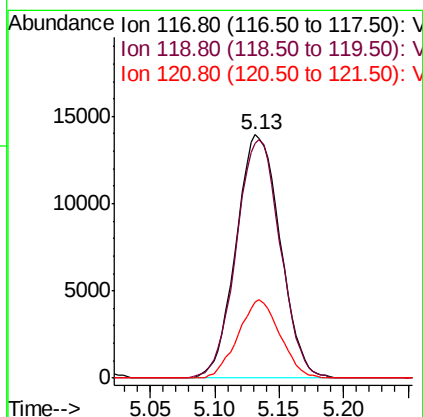
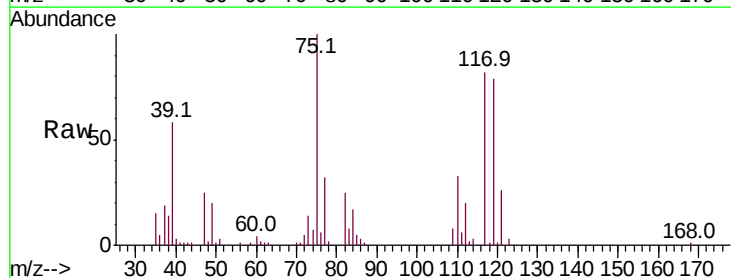
Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS02

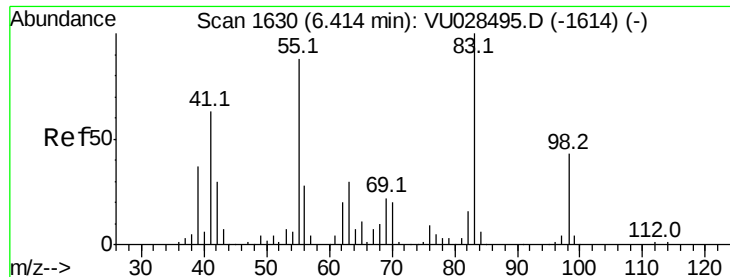
Tot Ion: 43 Resp: 52512
Ion Ratio Lower Upper
43 100
61 13.5 11.0 16.4
70 9.7 7.4 11.0



#38
Carbon Tetrachloride
Concen: 19.855 ug/l
RT: 5.13 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Tgt Ion: 117 Resp: 33242
Ion Ratio Lower Upper
117 100
119 96.5 77.6 116.4
121 31.2 24.6 36.8

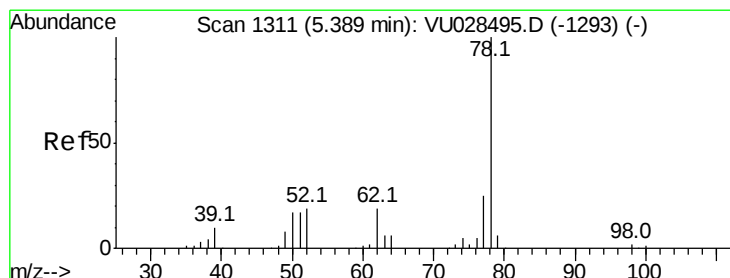
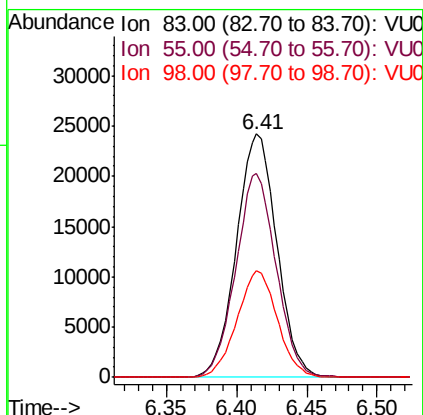
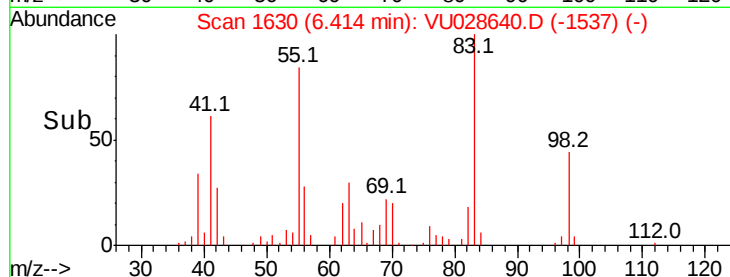
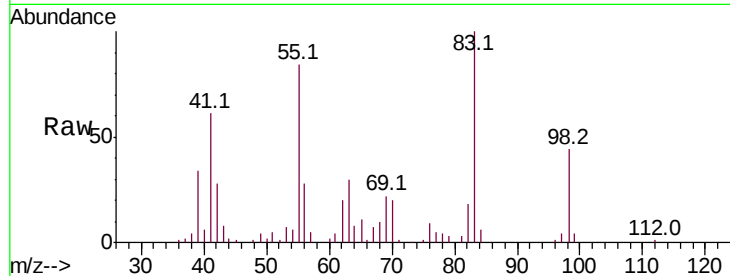




#39
Methvlcvclohexane
Concen: 19.144 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

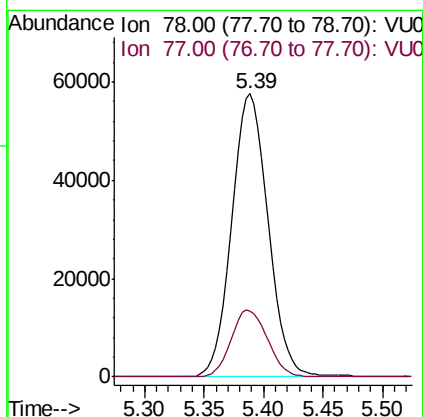
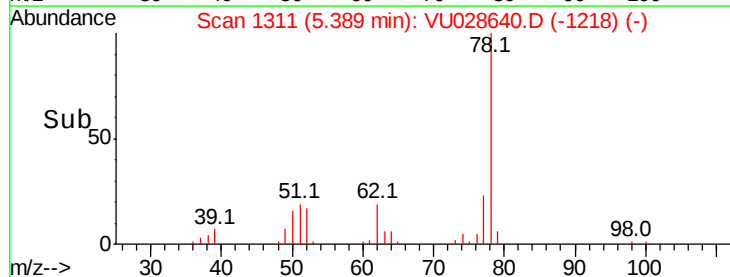
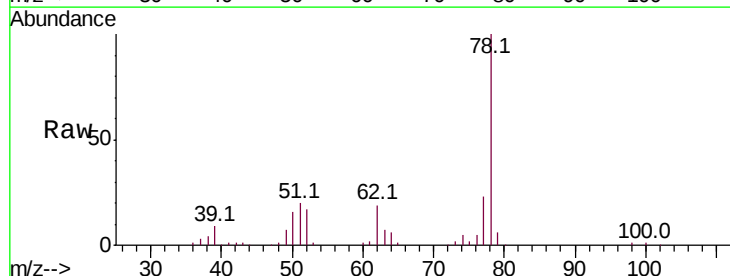
Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS02

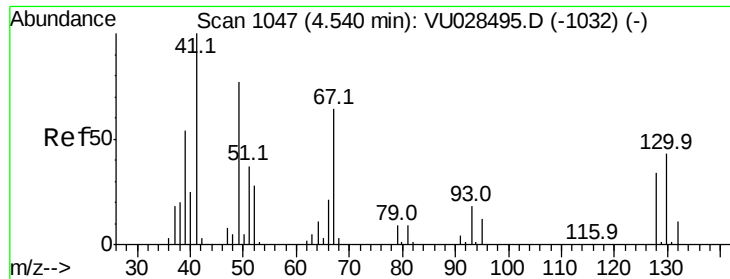
Tot Ion: 83 Resp: 48514
Ion Ratio Lower Upper
83 100
55 83.9 70.2 105.2
98 43.8 34.2 51.4



#40
Benzene
Concen: 19.935 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Tgt Ion: 78 Resp: 121960
Ion Ratio Lower Upper
78 100
77 23.4 19.9 29.9





#41

Methacrylonitrile

Concen: 20.090 ug/l

RT: 4.54 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS02

Tot Ion: 41 Resp: 29543

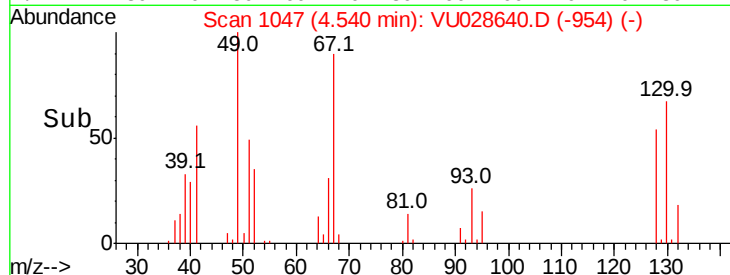
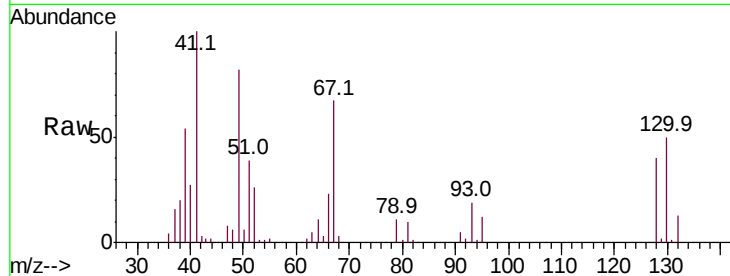
Ion Ratio Lower Upper

41 100

39 53.1 43.3 64.9

67 69.1 53.6 80.4

52 26.6 22.1 33.1

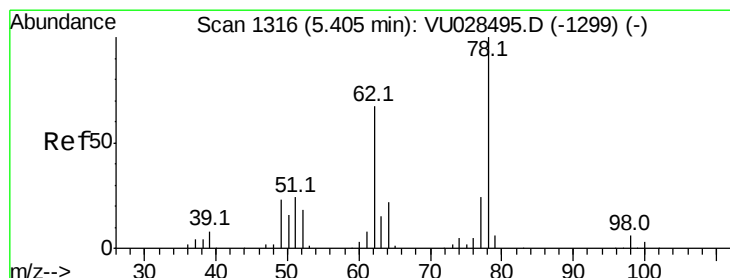
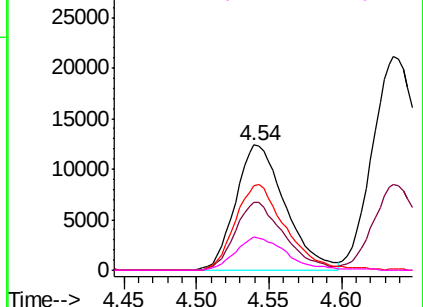


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 67.00 (66.70 to 67.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#42

1,2-Dichloroethane

Concen: 19.427 ug/l

RT: 5.40 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VU028640.D

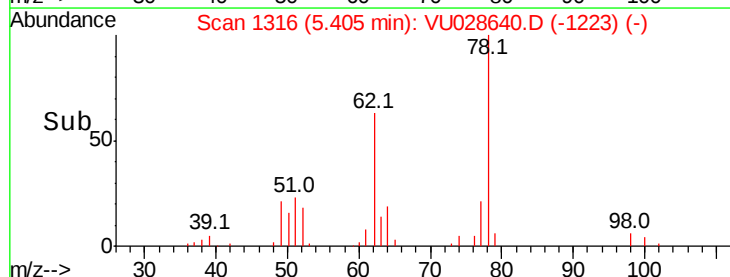
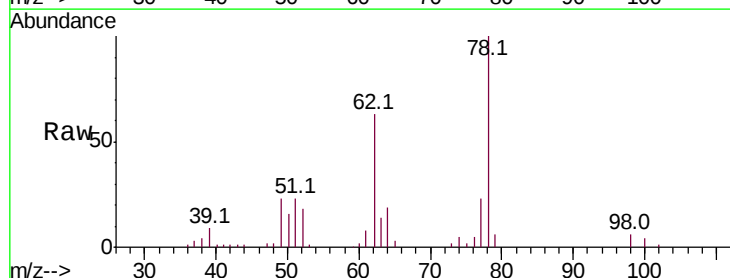
Acq: 12 Dec 2018 10:20

Tgt Ion: 62 Resp: 41602

Ion Ratio Lower Upper

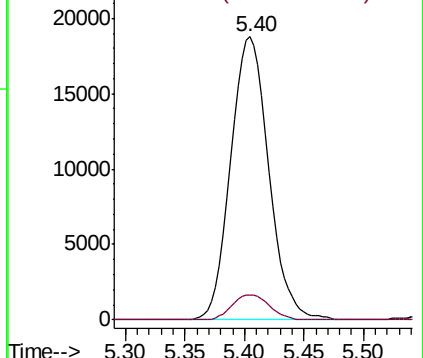
62 100

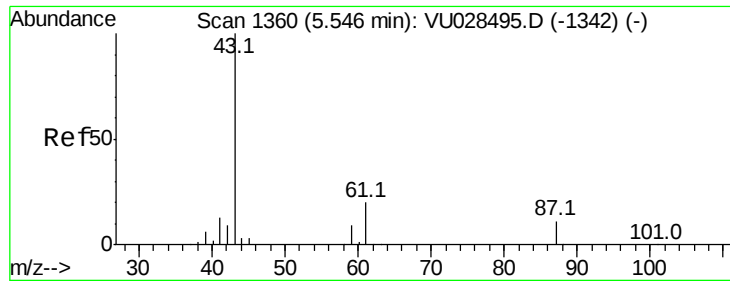
98 8.7 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#43

Isopropyl Acetate

Concen: 19.927 ug/l

RT: 5.55 min Scan# 1360

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS02

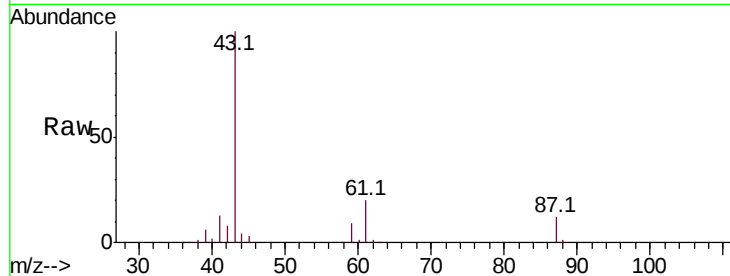
Tot Ion: 43 Resp: 84631

Ion Ratio Lower Upper

43 100

61 19.7 15.5 23.3

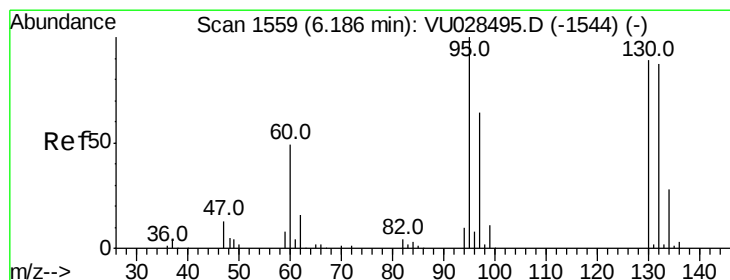
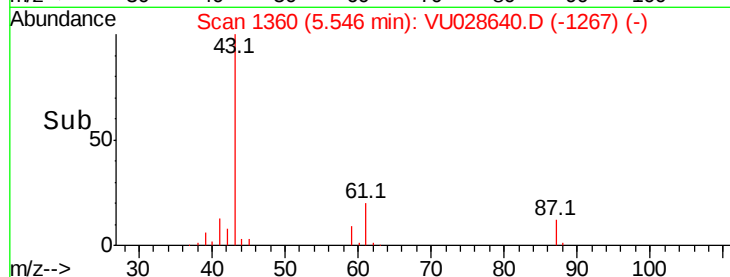
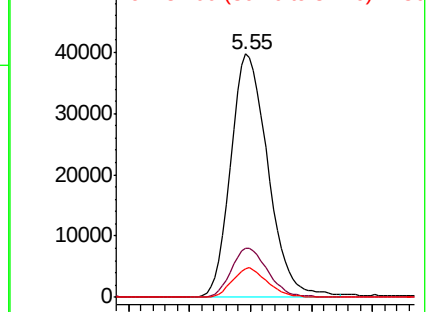
87 11.3 8.7 13.1



Abundance Ion 43.00 (42.70 to 43.70): VU028640.D (-1267) (-)

Ion 61.00 (60.70 to 61.70): VU028640.D (-1267) (-)

Ion 87.00 (86.70 to 87.70): VU028640.D (-1267) (-)



#44

Trichloroethene

Concen: 19.905 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028640.D

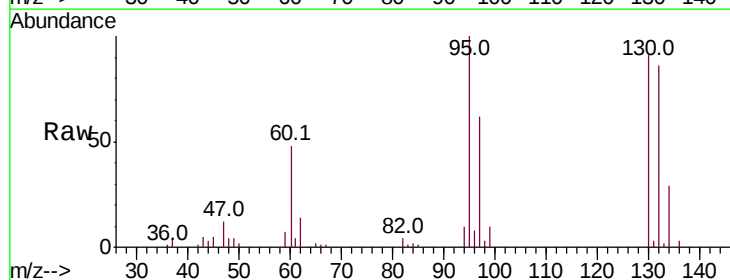
Acq: 12 Dec 2018 10:20

Tgt Ion:130 Resp: 27076

Ion Ratio Lower Upper

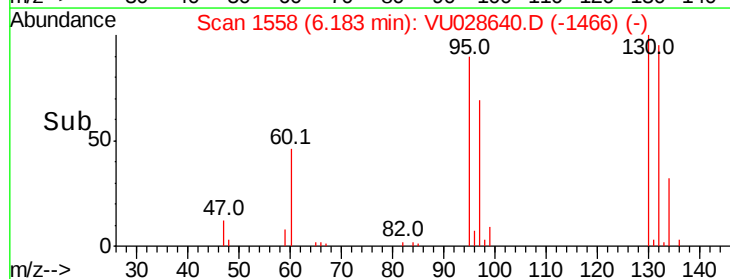
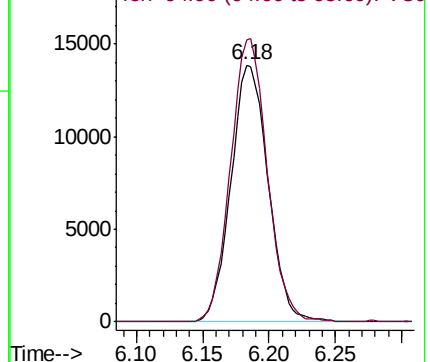
130 100

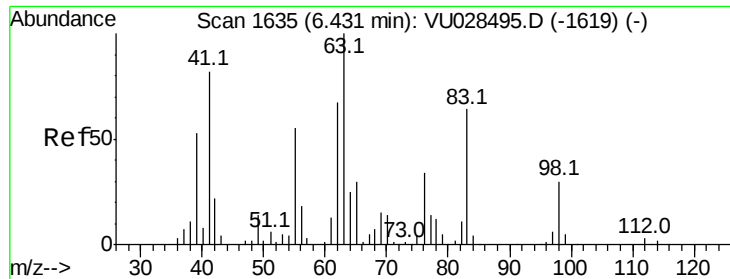
95 110.0 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): VU028640.D (-1466) (-)

Ion 94.90 (94.60 to 95.60): VU028640.D (-1466) (-)





#45

1,2-Dichloropropane

Concen: 20.183 ug/l

RT: 6.43 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

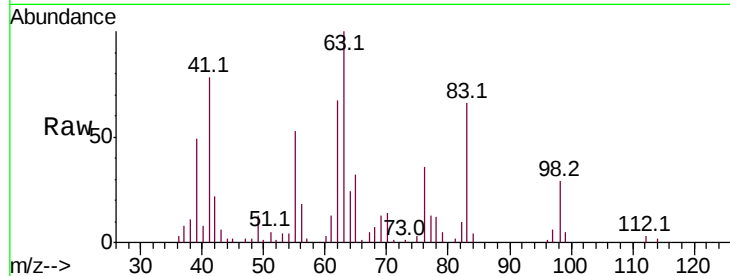
VU1213WBS02

Tot Ion: 63 Resp: 34722

Ion Ratio Lower Upper

63 100

65 32.3 24.2 36.4



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0

6.43

20000

15000

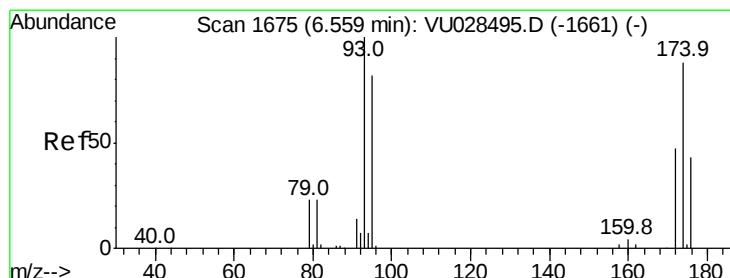
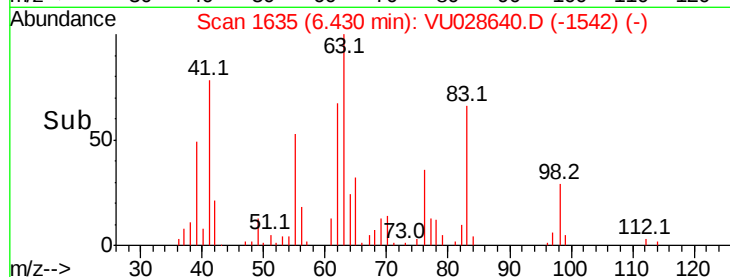
10000

5000

0

Time-->

6.35 6.40 6.45 6.50



#46

Dibromomethane

Concen: 19.906 ug/l

RT: 6.56 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

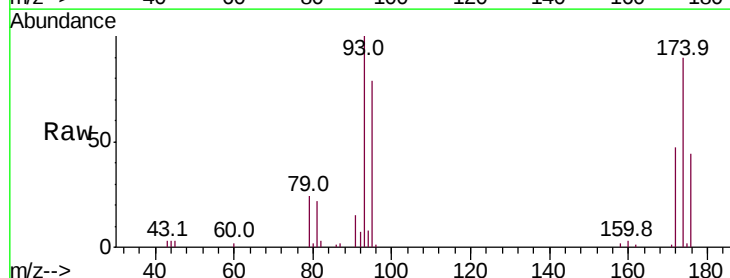
Tgt Ion: 93 Resp: 20319

Ion Ratio Lower Upper

93 100

95 82.7 65.4 98.2

174 95.1 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

6.56

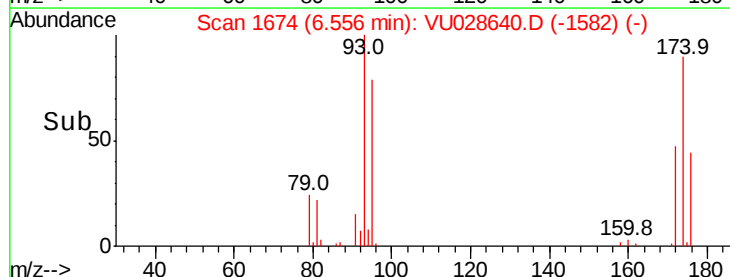
10000

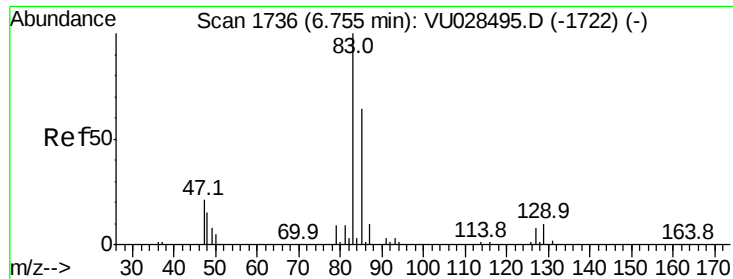
5000

0

Time-->

6.50 6.55 6.60





#47

Bromodichloromethane

Concen: 19.691 ug/l

RT: 6.76 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS02

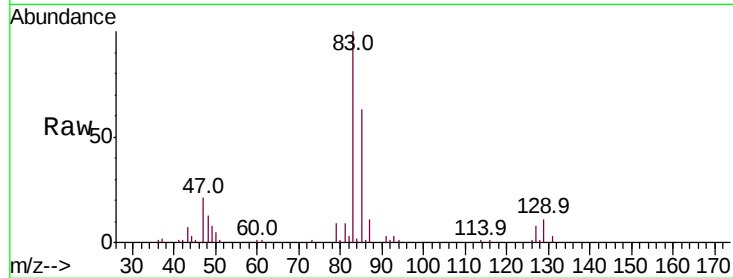
Tot Ion: 83 Resp: 39113

Ion Ratio Lower Upper

83 100

85 63.3 51.5 77.3

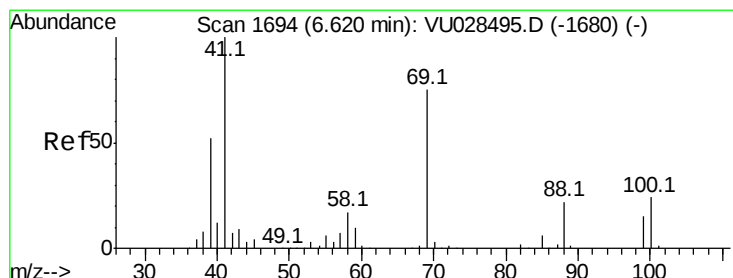
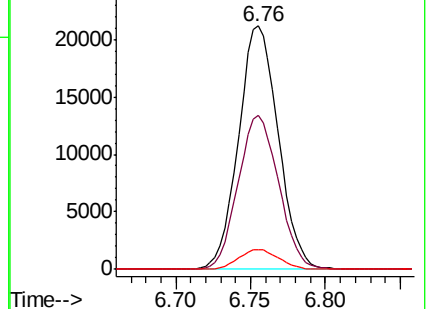
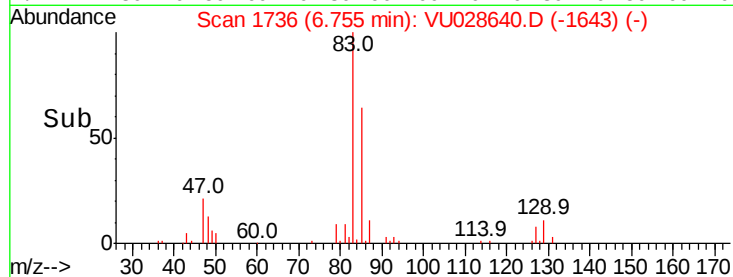
127 8.3 6.2 9.4



Abundance Ion 82.90 (82.60 to 83.60): VU028640.D (-1643) (-)

Ion 84.90 (84.60 to 85.60): VU028640.D (-1643) (-)

Ion 126.80 (126.50 to 127.50): VU028640.D (-1643) (-)



#48

Methyl methacrylate

Concen: 20.502 ug/l

RT: 6.62 min Scan# 1694

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

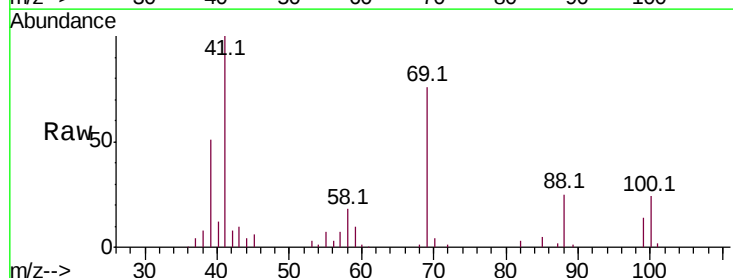
Tgt Ion: 41 Resp: 43302

Ion Ratio Lower Upper

41 100

69 76.1 60.4 90.6

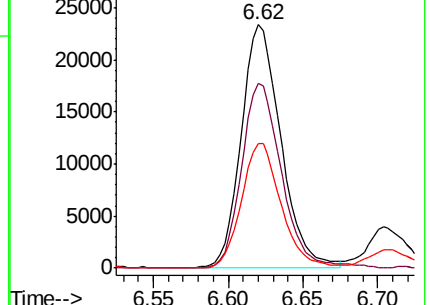
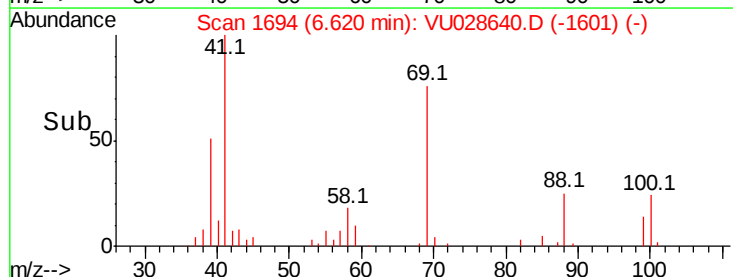
39 50.9 41.1 61.7

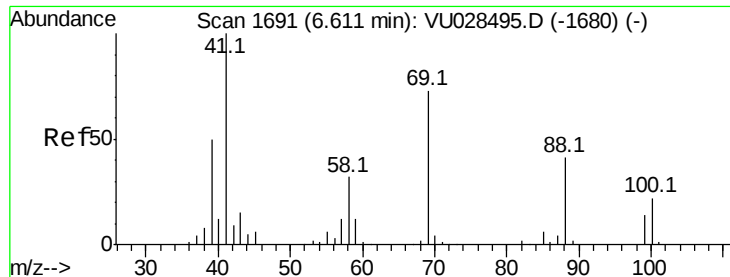


Abundance Ion 41.00 (40.70 to 41.70): VU028640.D (-1601) (-)

Ion 69.00 (68.70 to 69.70): VU028640.D (-1601) (-)

Ion 39.00 (38.70 to 39.70): VU028640.D (-1601) (-)





#49

1,4-Dioxane

Concen: 389.358 ug/l

RT: 6.61 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :
MSVOA_U
ClientSampled :
VU1213WBS02

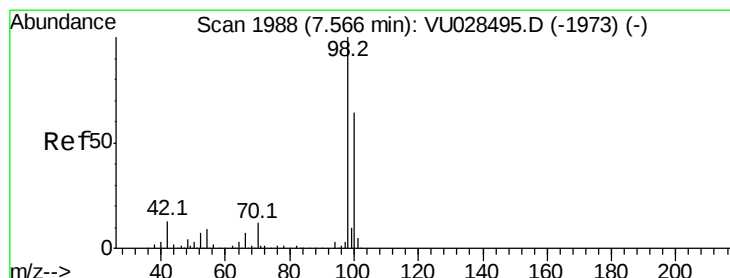
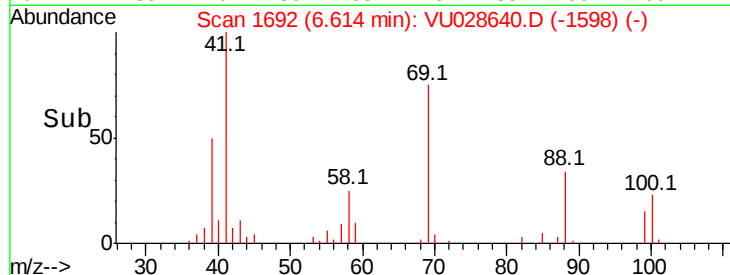
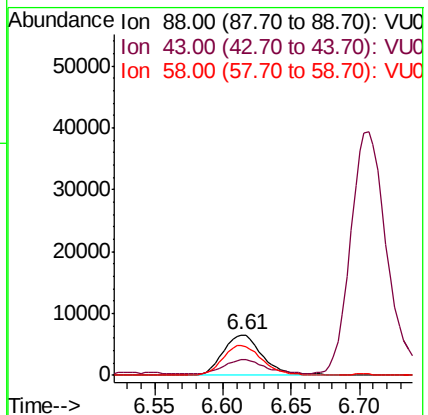
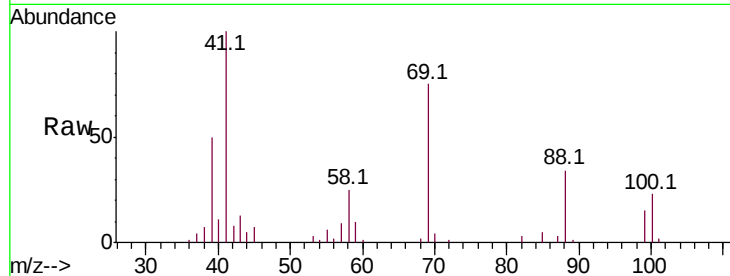
Tot Ion: 88 Resp: 12985

Ion Ratio Lower Upper

88 100

43 36.9 30.9 46.3

58 73.8 62.4 93.6



#50

Toluene-d8

Concen: 49.537 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028640.D

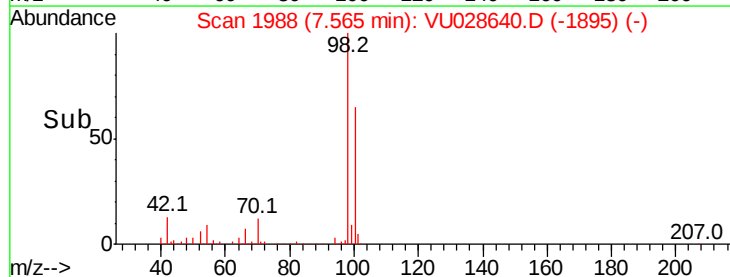
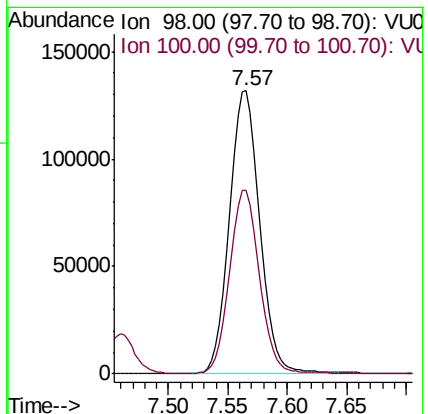
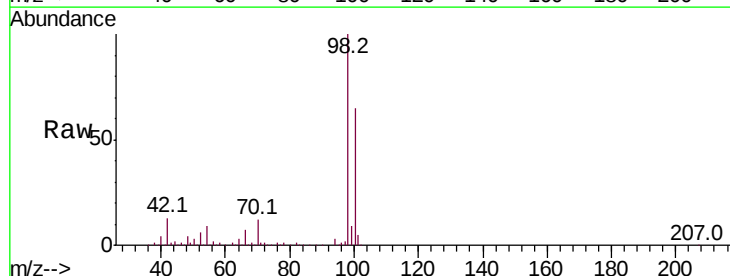
Acq: 12 Dec 2018 10:20

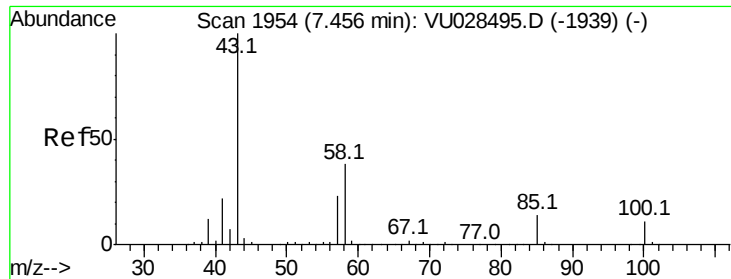
Tgt Ion: 98 Resp: 234084

Ion Ratio Lower Upper

98 100

100 63.3 51.0 76.6





#51

4-Methyl-2-Pentanone

Concen: 100.088 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

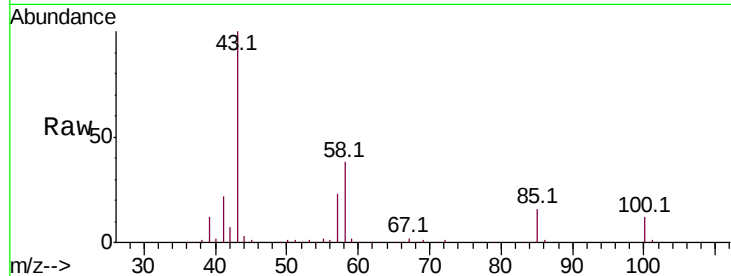
VU1213WBS02

Tot Ion: 43 Resp: 268108

Ion Ratio Lower Upper

43 100

58 38.5 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

150000

100000

50000

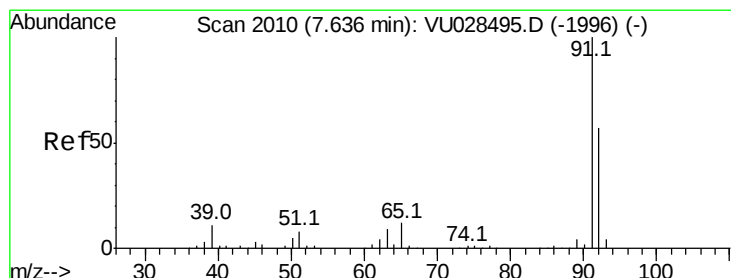
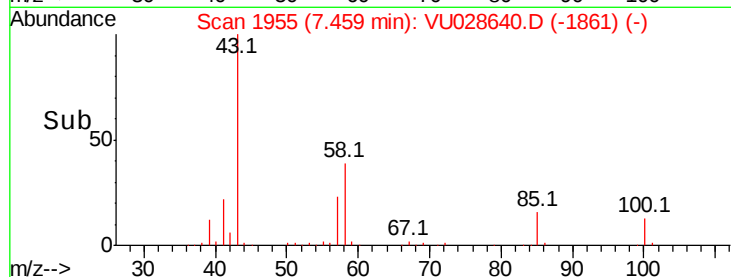
0

7.46

7.40

7.50

Time-->



#52

Toluene

Concen: 19.986 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028640.D

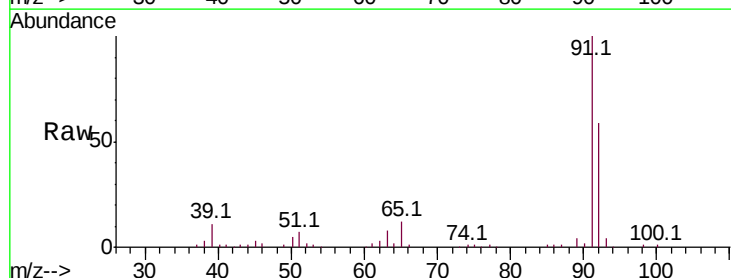
Acq: 12 Dec 2018 10:20

Tgt Ion: 92 Resp: 71958

Ion Ratio Lower Upper

92 100

91 174.4 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

80000

60000

40000

20000

0

7.64

7.55

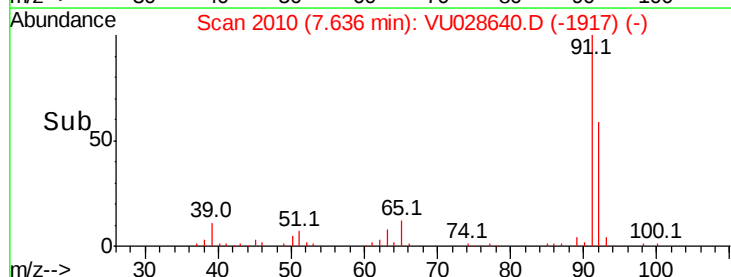
7.60

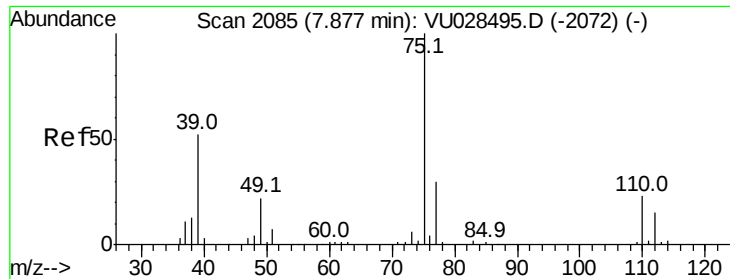
7.65

7.70

7.75

Time-->

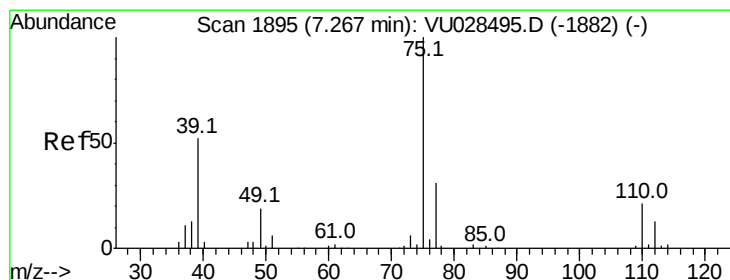
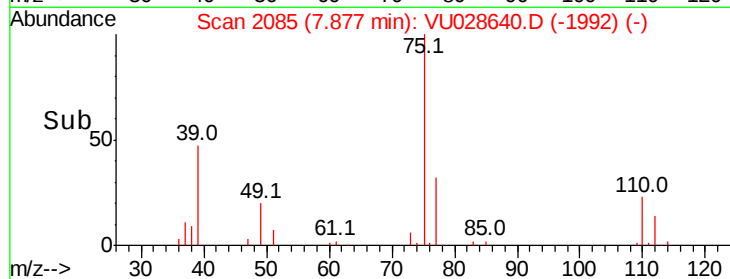
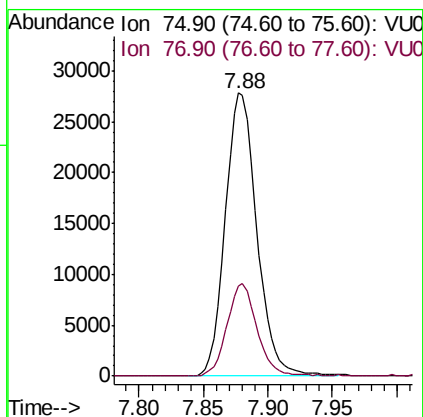
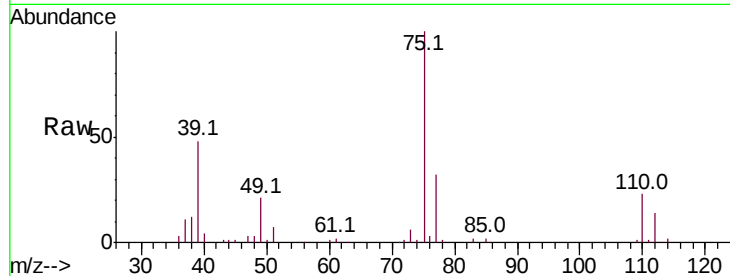




#53
t-1,3-Dichloropropene
Concen: 19.996 ug/l
RT: 7.88 min Scan# 2085
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

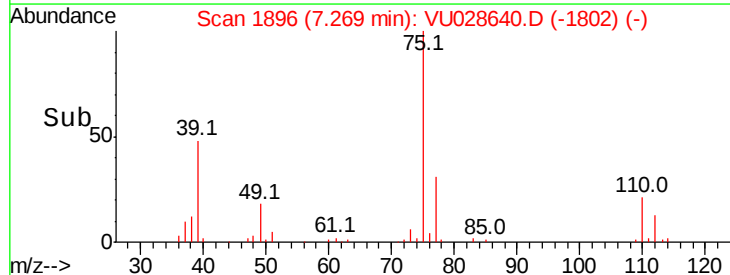
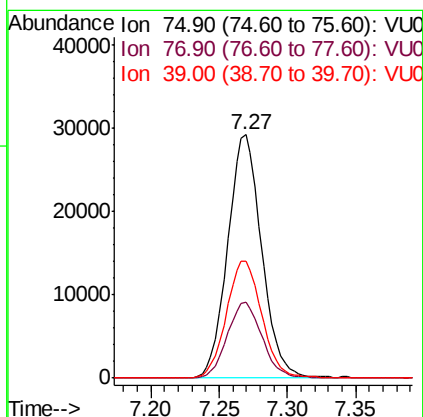
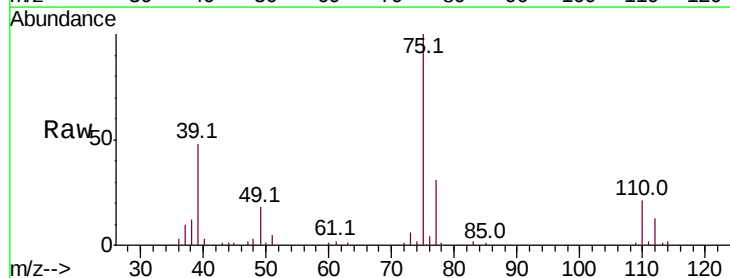
Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS02

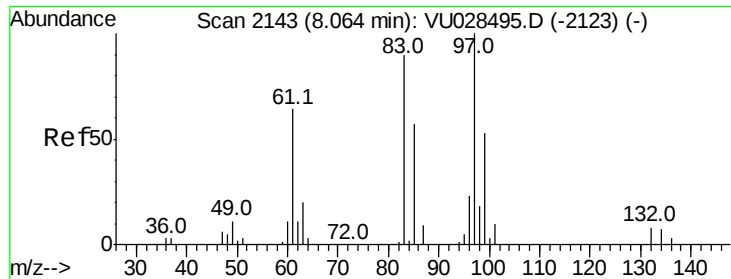
Tot Ion: 75 Resp: 47304
Ion Ratio Lower Upper
75 100
77 31.9 24.2 36.4



#54
cis-1,3-Dichloropropene
Concen: 19.644 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. 0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Tgt Ion: 75 Resp: 50417
Ion Ratio Lower Upper
75 100
77 31.0 25.0 37.4
39 47.8 41.3 61.9

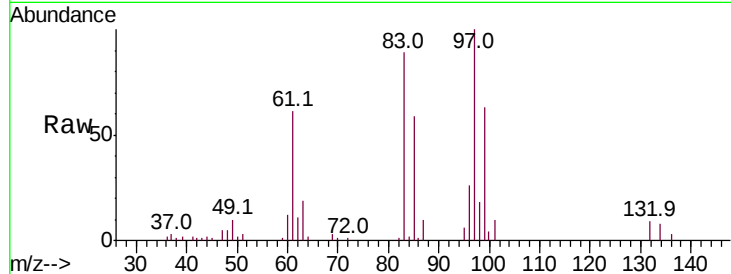




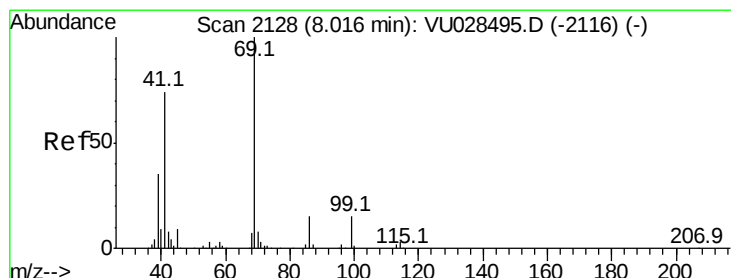
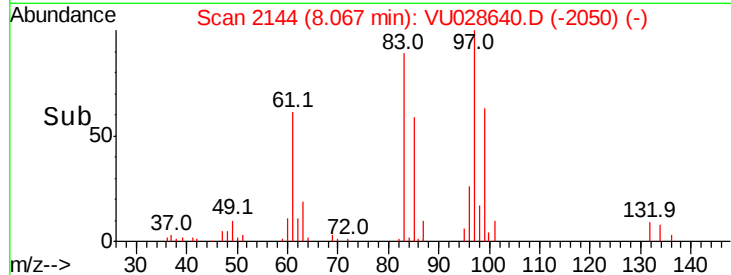
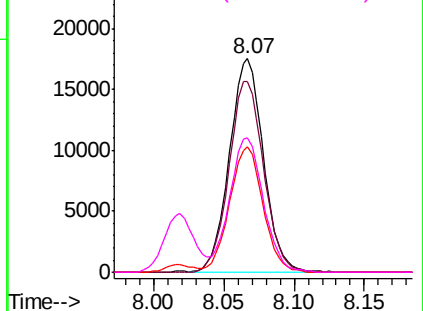
#55
 1,1,2-Trichloroethane
 Concen: 20.819 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. 0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS02

Tot Ion: 97 Resp: 29630
 Ion Ratio Lower Upper
 97 100
 83 89.3 72.4 108.6
 85 58.9 46.0 69.0
 99 62.9 47.4 71.2

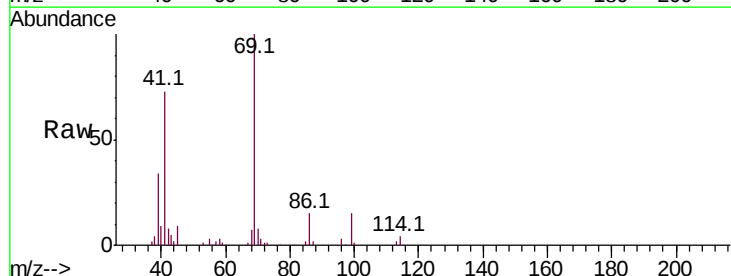


Abundance Ion 96.90 (96.60 to 97.60): VU0
 Ion 82.90 (82.60 to 83.60): VU0
 Ion 84.90 (84.60 to 85.60): VU0
 Ion 98.90 (98.60 to 99.60): VU0

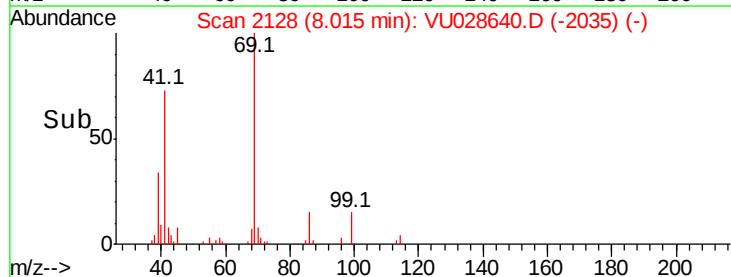
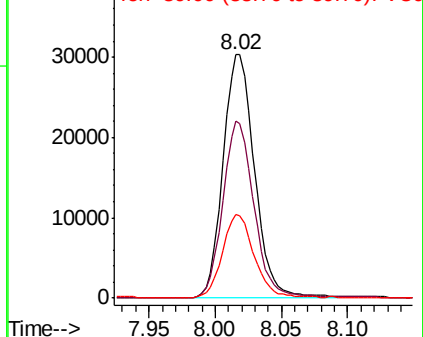


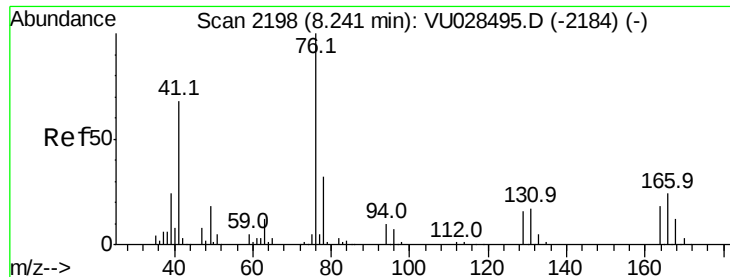
#56
 Ethyl methacrylate
 Concen: 20.611 ug/l
 RT: 8.02 min Scan# 2128
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Tgt Ion: 69 Resp: 50232
 Ion Ratio Lower Upper
 69 100
 41 71.6 59.1 88.7
 39 34.8 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: 19.921 ug/l

RT: 8.24 min Scan# 2198

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

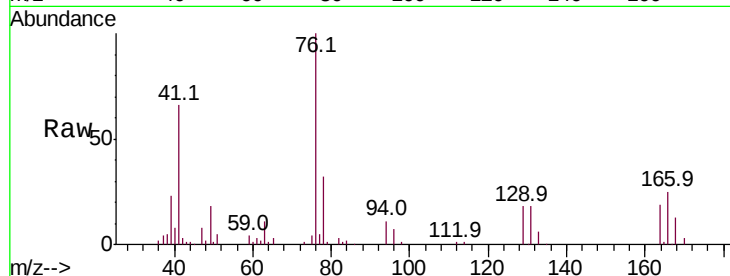
VU1213WBS02

Tot Ion: 76 Resp: 52630

Ion Ratio Lower Upper

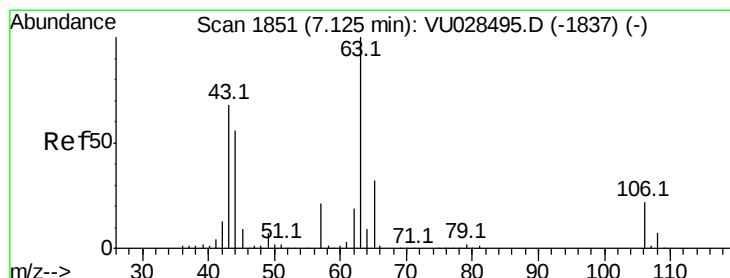
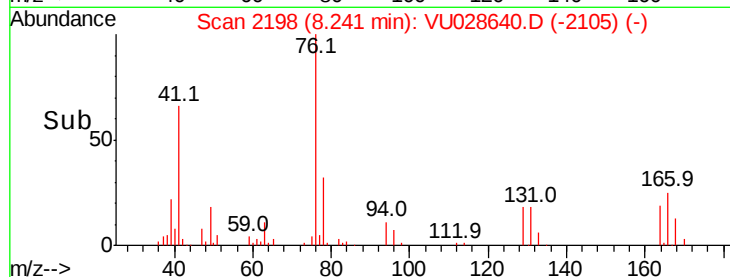
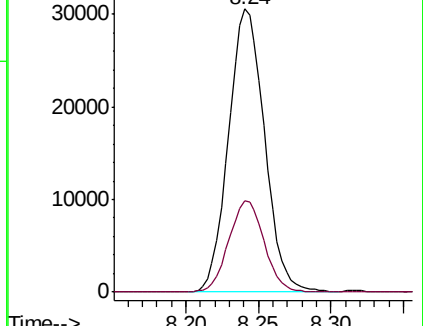
76 100

78 31.6 25.2 37.8



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#58

2-Chloroethyl Vinyl ether

Concen: 104.579 ug/l

RT: 7.13 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VU028640.D

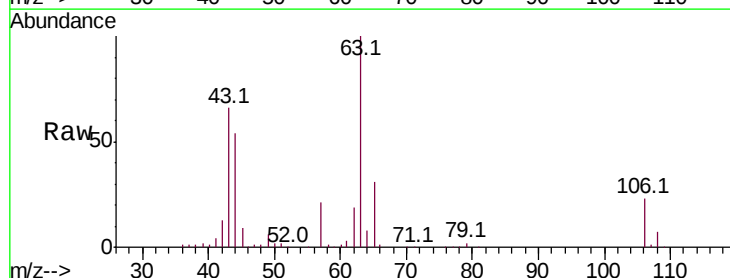
Acq: 12 Dec 2018 10:20

Tgt Ion: 63 Resp: 130550

Ion Ratio Lower Upper

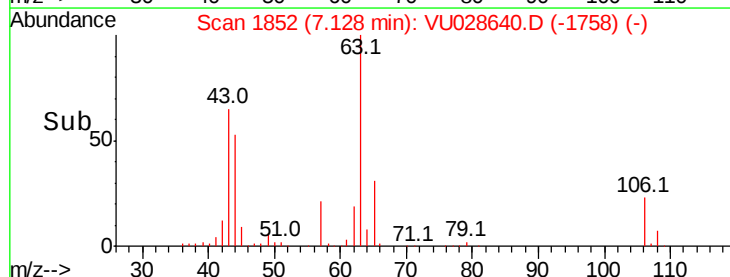
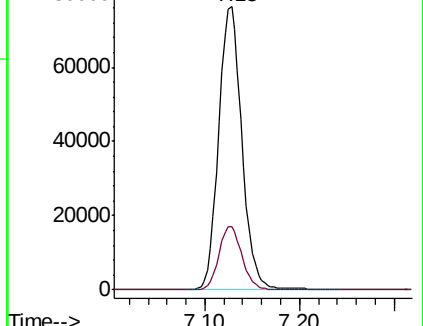
63 100

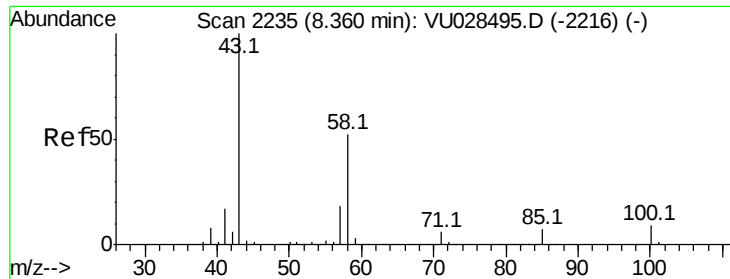
106 22.3 17.8 26.6



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V

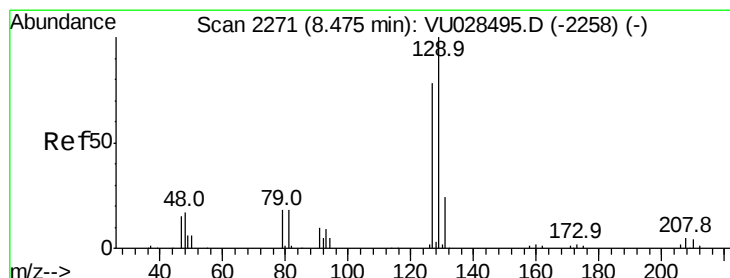
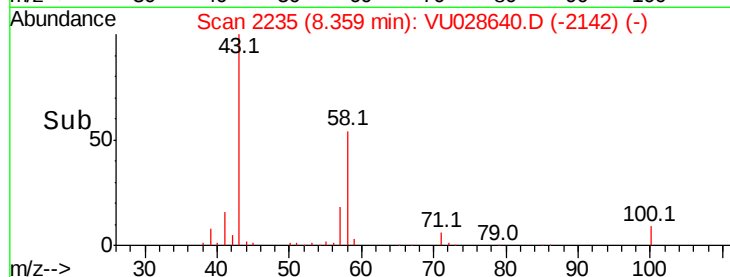
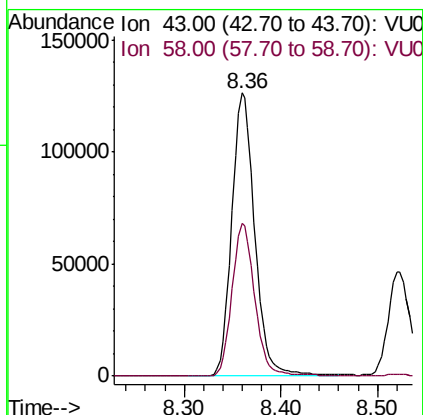
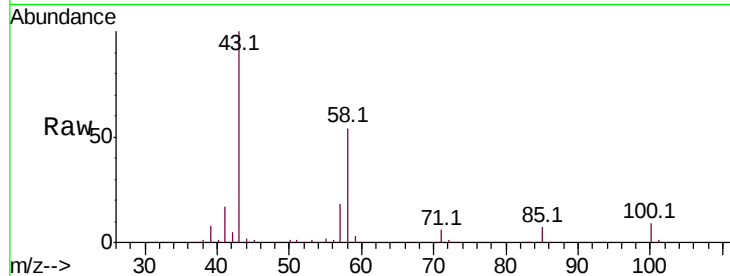




#59
2-Hexanone
Concen: 97.965 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

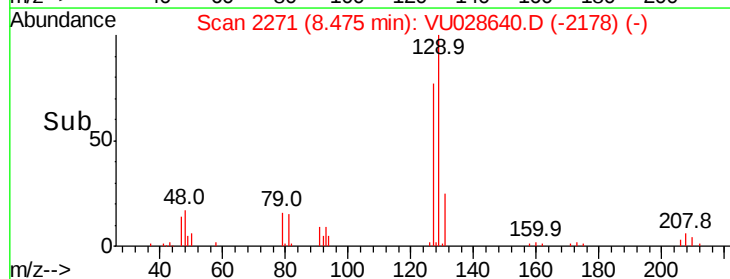
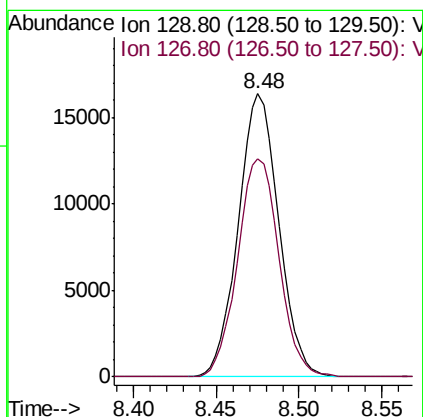
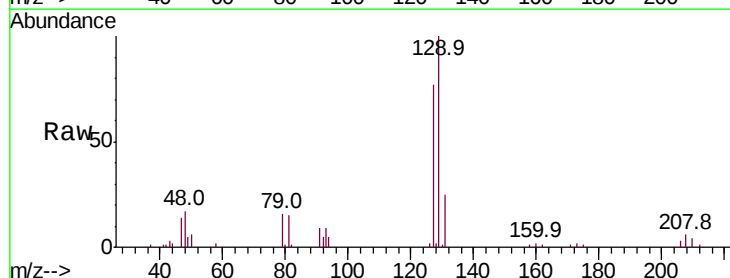
Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS02

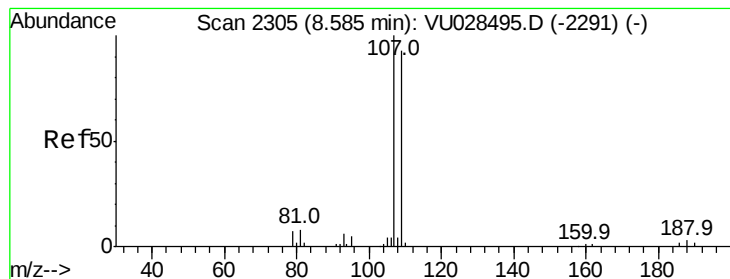
Tot Ion: 43 Resp: 207997
Ion Ratio Lower Upper
43 100
58 53.8 25.9 77.6



#60
Dibromochloromethane
Concen: 20.038 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Tgt Ion: 129 Resp: 27922
Ion Ratio Lower Upper
129 100
127 78.8 39.1 117.3





#61

1,2-Dibromoethane

Concen: 20.632 ug/l

RT: 8.58 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

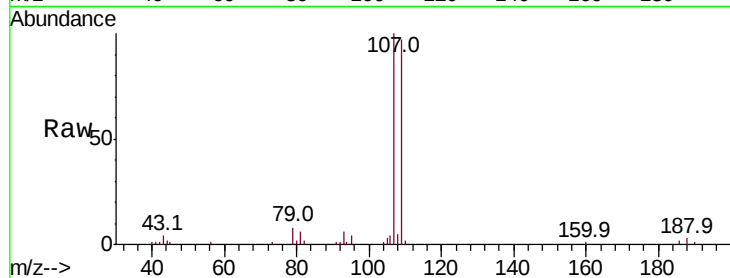
VU1213WBS02

Tot Ion:107 Resp: 30793

Ion Ratio Lower Upper

107 100

109 96.3 74.5 111.7



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.58

20000

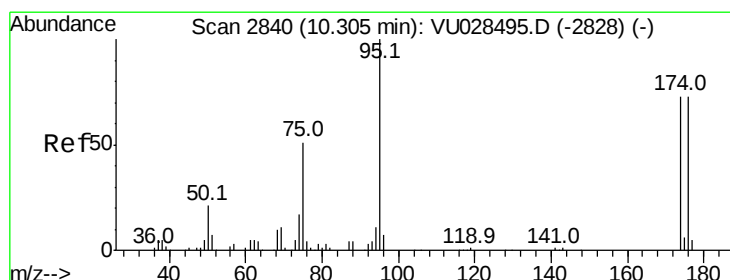
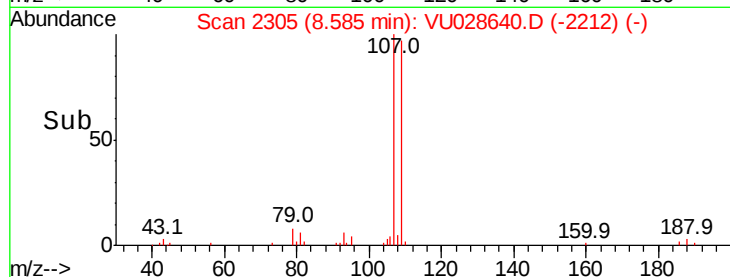
15000

10000

5000

0

Time--> 8.50 8.55 8.60 8.65



#62

4-Bromofluorobenzene

Concen: 47.760 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

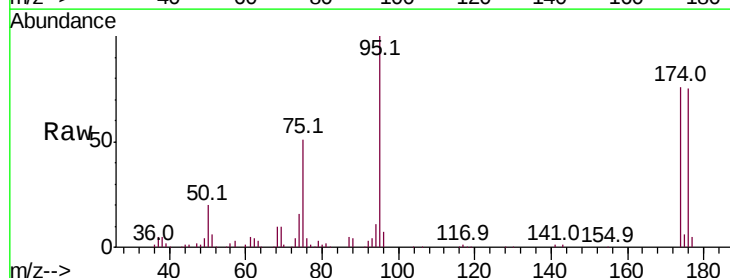
Tgt Ion: 95 Resp: 84354

Ion Ratio Lower Upper

95 100

174 77.7 0.0 150.4

176 75.3 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

10.30

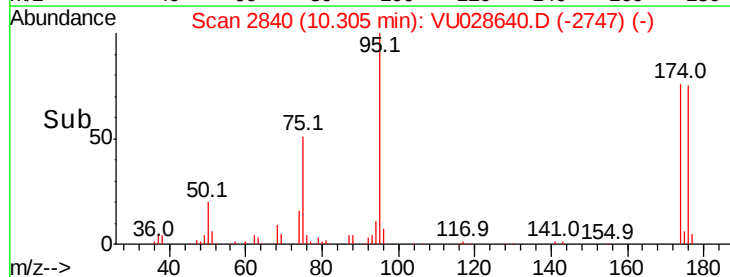
60000

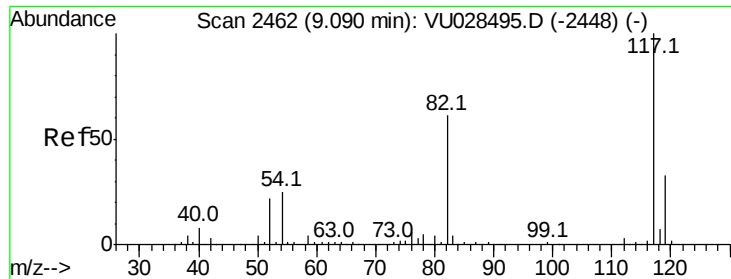
40000

20000

0

Time--> 10.30 10.40

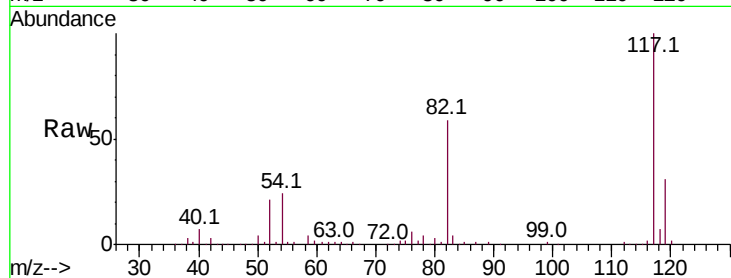




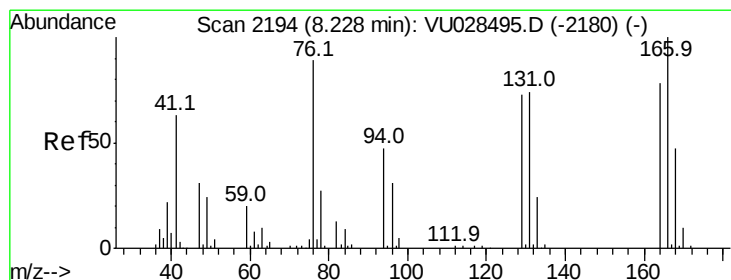
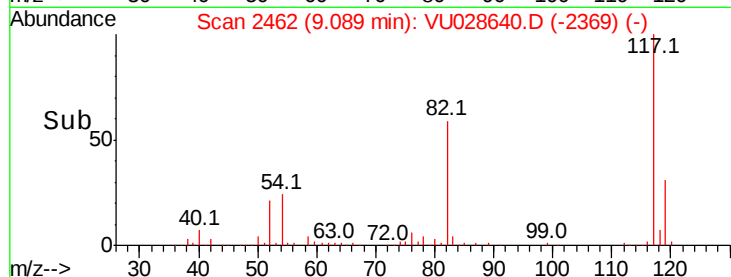
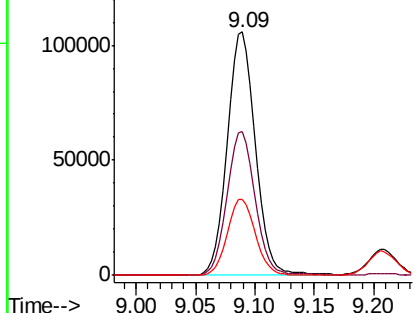
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS02

Tot Ion:117 Resp: 174046
Ion Ratio Lower Upper
117 100
82 59.1 48.9 73.3
119 31.3 26.2 39.4



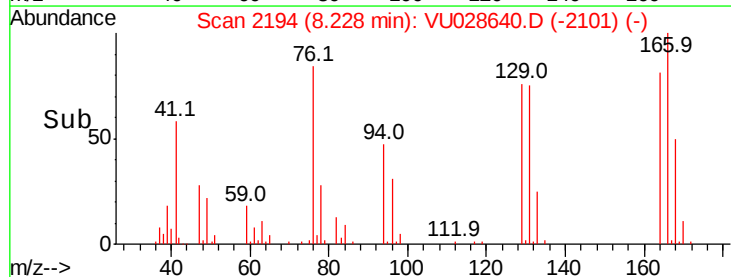
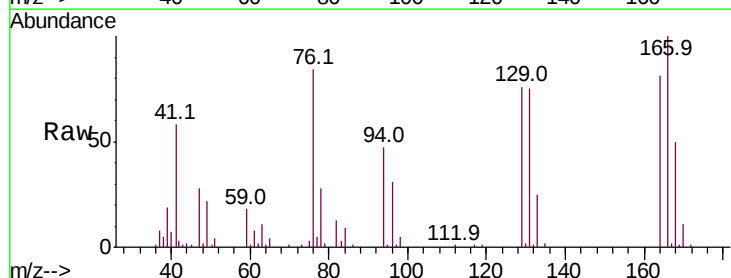
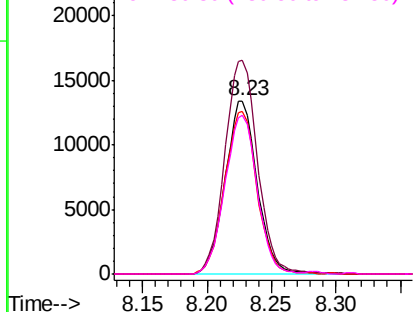
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

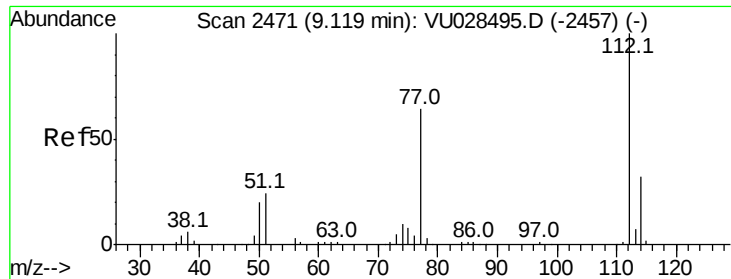


#64
Tetrachloroethene
Concen: 19.906 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Tgt Ion:164 Resp: 23110
Ion Ratio Lower Upper
164 100
166 123.6 101.9 152.9
129 94.3 74.9 112.3
131 92.1 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

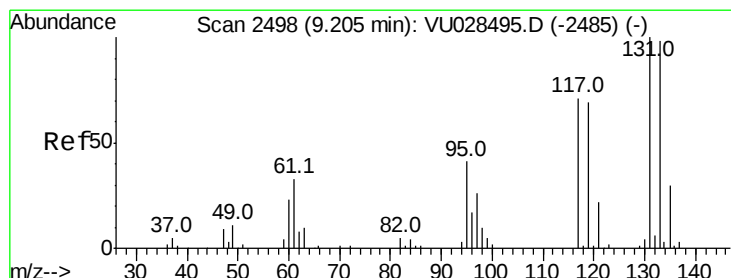
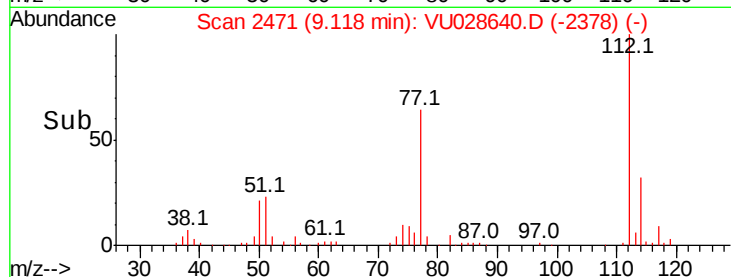
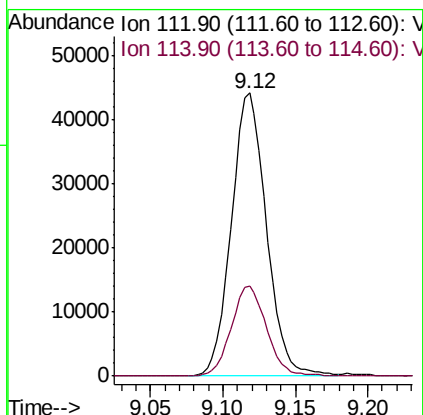
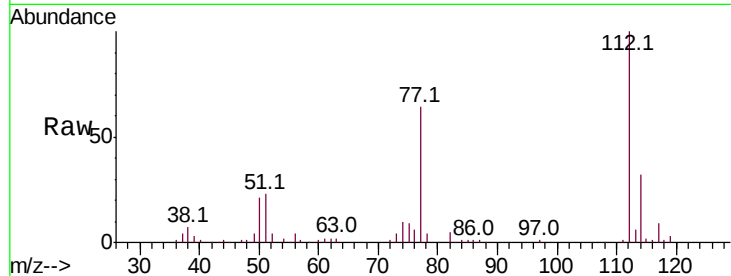




#65
Chlorobenzene
Concen: 19.990 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

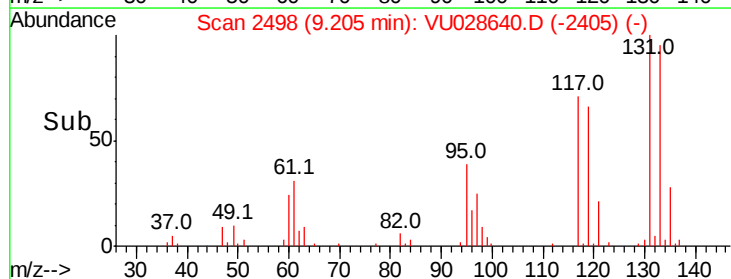
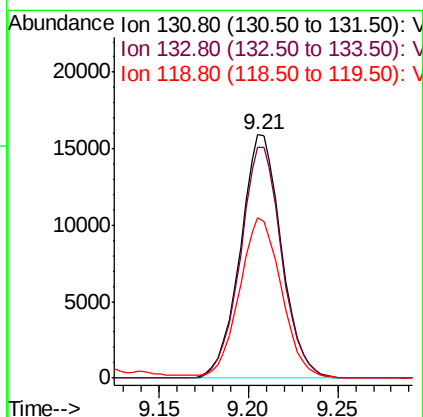
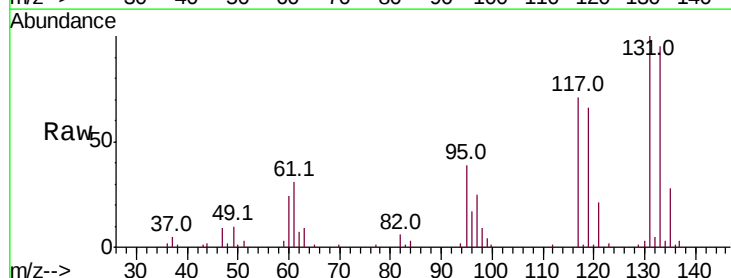
Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS02

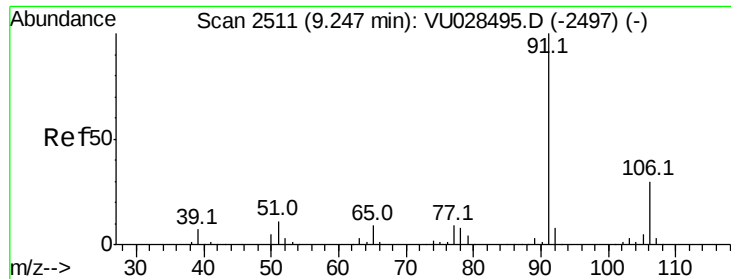
Tot Ion:112 Resp: 74138
Ion Ratio Lower Upper
112 100
114 32.0 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 21.514 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Tgt Ion:131 Resp: 25479
Ion Ratio Lower Upper
131 100
133 95.5 48.0 144.0
119 67.7 34.6 103.9

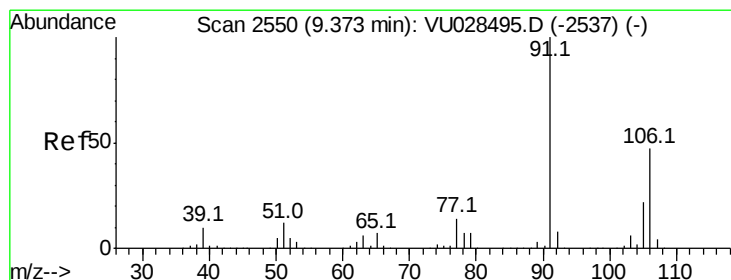
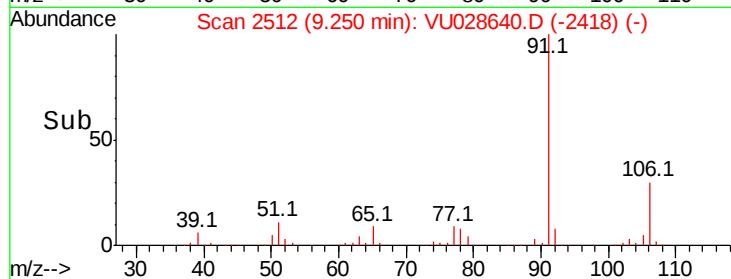
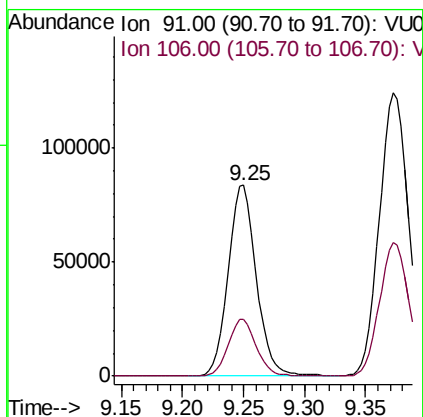
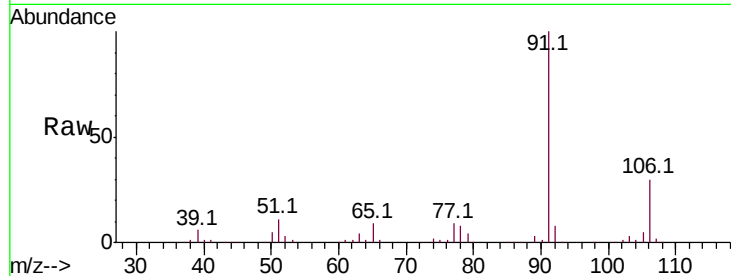




#67
Ethyl Benzene
Concen: 19.917 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

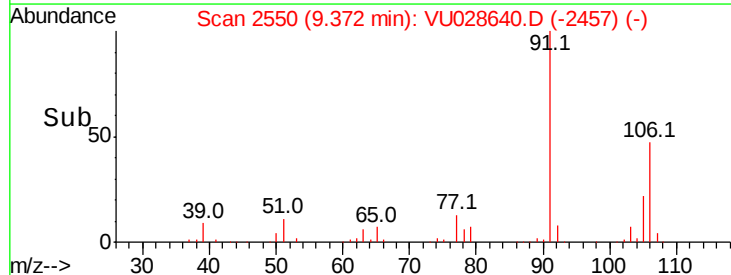
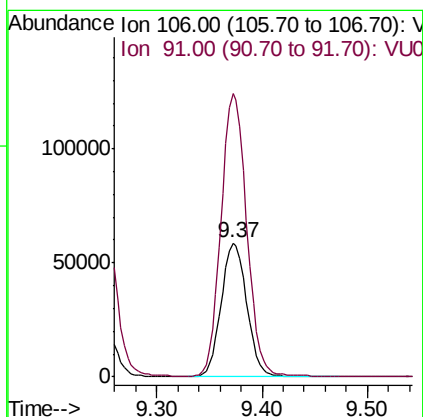
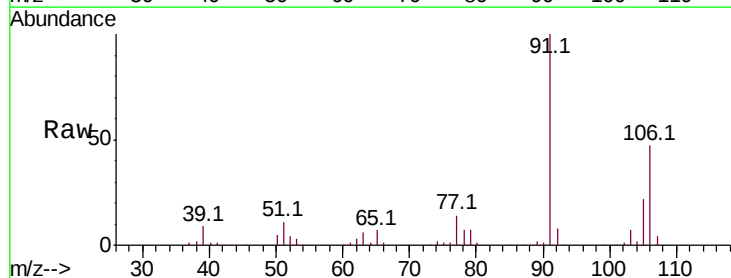
Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS02

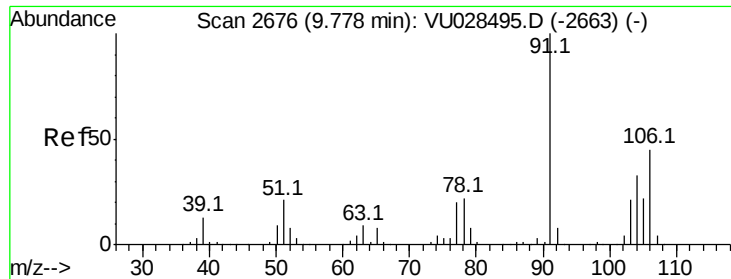
Tot Ion: 91 Resp: 135794
Ion Ratio Lower Upper
91 100
106 30.0 24.1 36.1



#68
m/p-Xylenes
Concen: 39.907 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Tgt Ion: 106 Resp: 99004
Ion Ratio Lower Upper
106 100
91 212.5 167.4 251.0

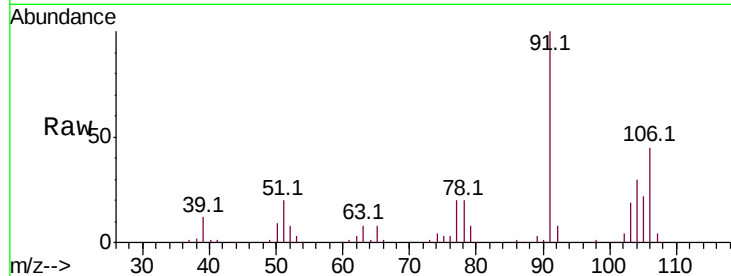




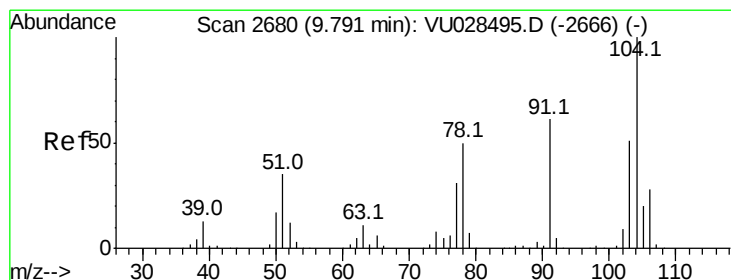
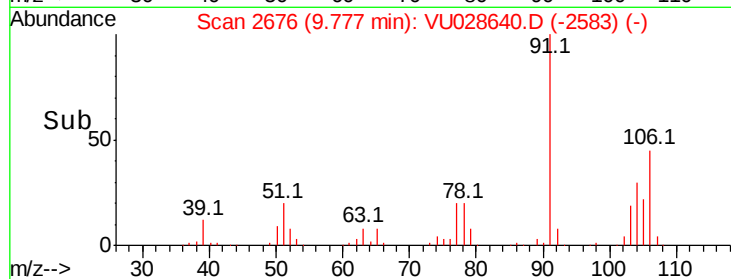
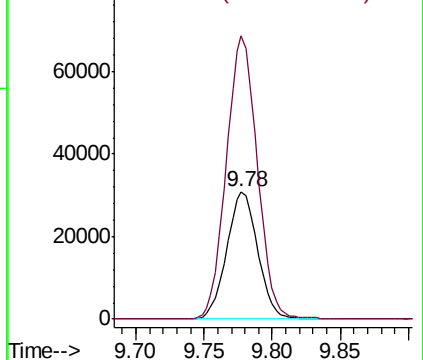
#69
o-Xylene
Concen: 20.294 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS02

Tot Ion:106 Resp: 48926
Ion Ratio Lower Upper
106 100
91 221.9 111.3 334.0

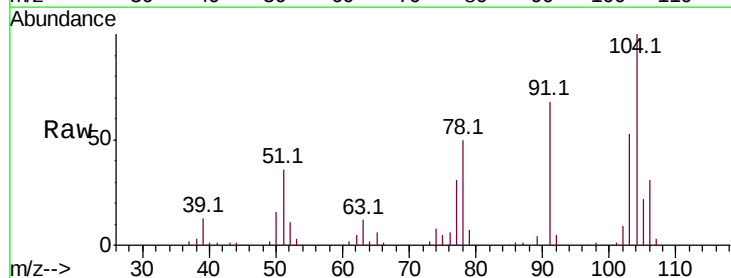


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

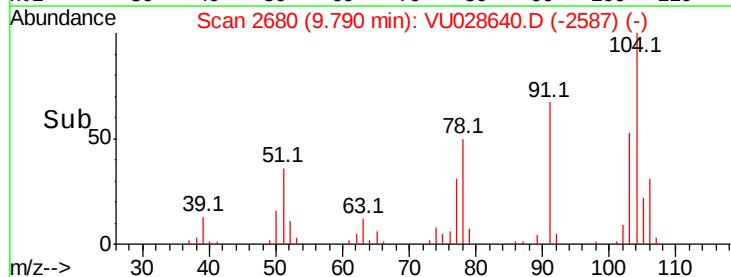
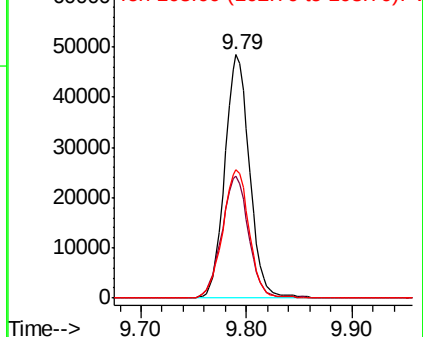


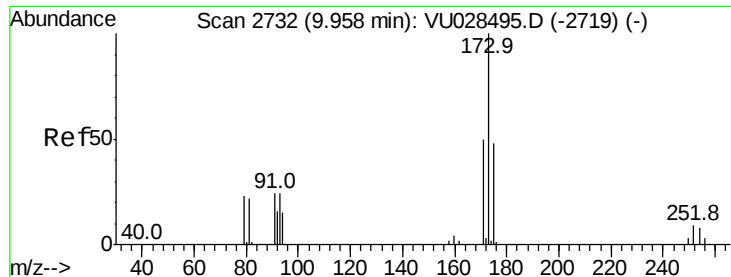
#70
Styrene
Concen: 19.698 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Tgt Ion:104 Resp: 78592
Ion Ratio Lower Upper
104 100
78 54.6 43.0 64.6
103 56.4 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: 21.445 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS02

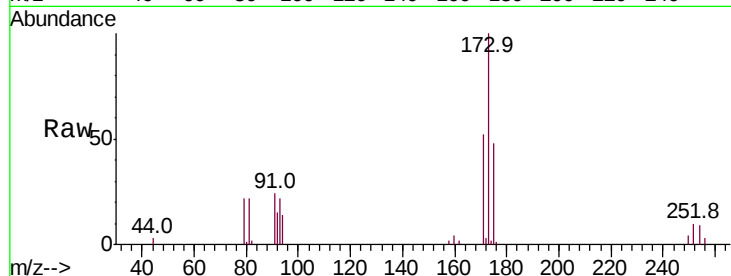
Tot Ion:173 Resp: 21606

Ion Ratio Lower Upper

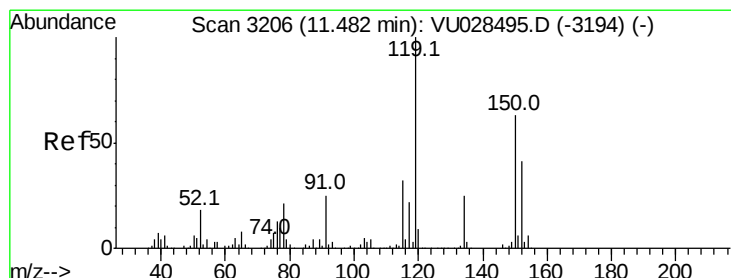
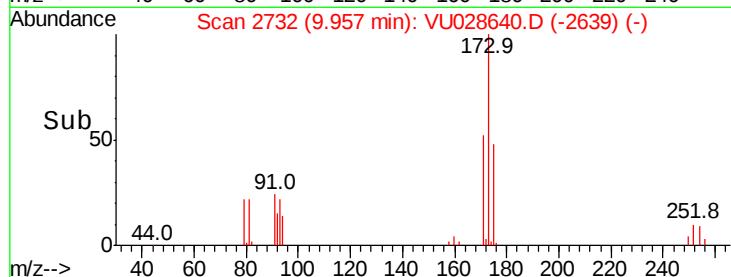
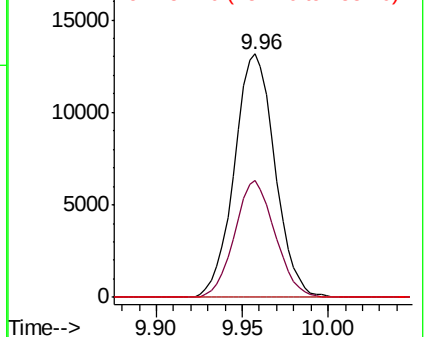
173 100

175 47.6 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: VU028640.D

Acq: 12 Dec 2018 10:20

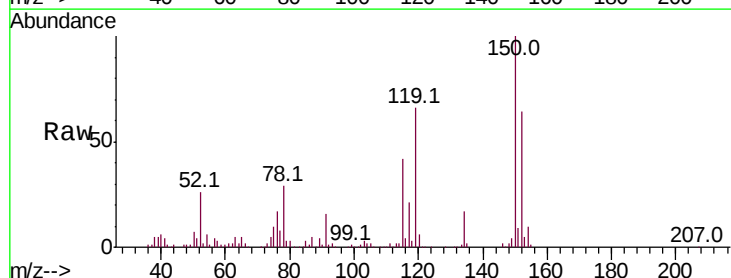
Tgt Ion:152 Resp: 82272

Ion Ratio Lower Upper

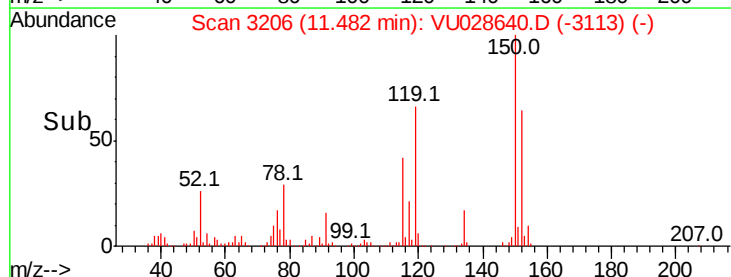
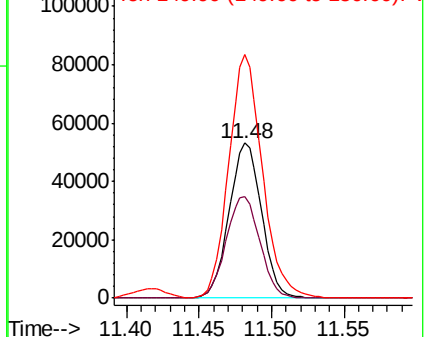
152 100

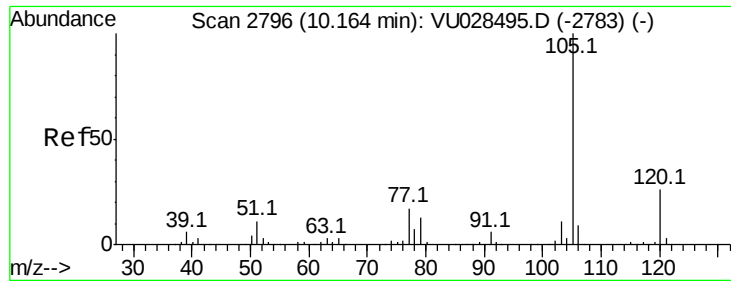
115 68.2 42.7 128.1

150 163.1 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: 20.600 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

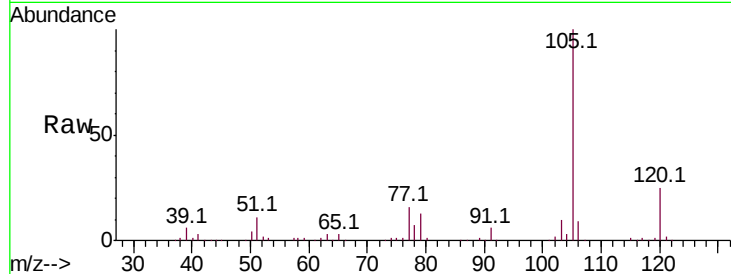
VU1213WBS02

Tot Ion:105 Resp: 130046

Ion Ratio Lower Upper

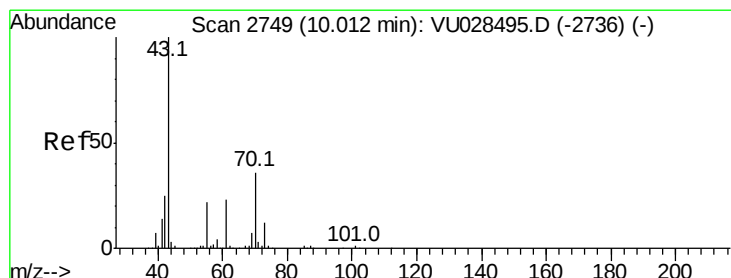
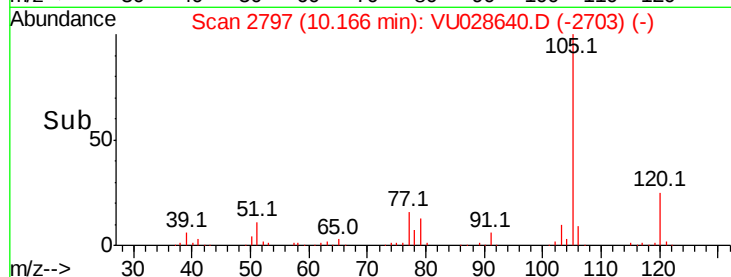
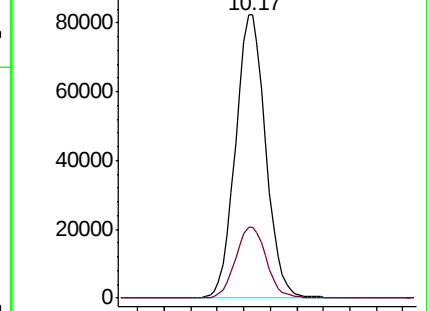
105 100

120 25.7 12.9 38.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.575 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Tgt Ion: 43 Resp: 74923

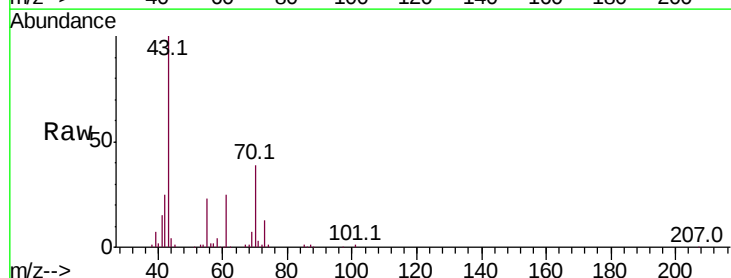
Ion Ratio Lower Upper

43 100

70 38.1 29.3 43.9

55 22.7 18.0 27.0

61 24.0 18.3 27.5

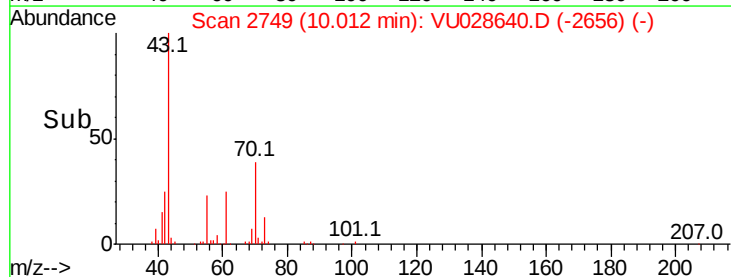
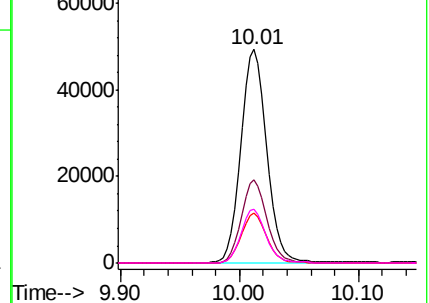


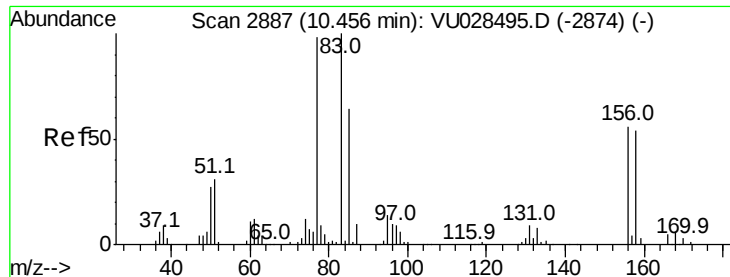
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.670 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS02

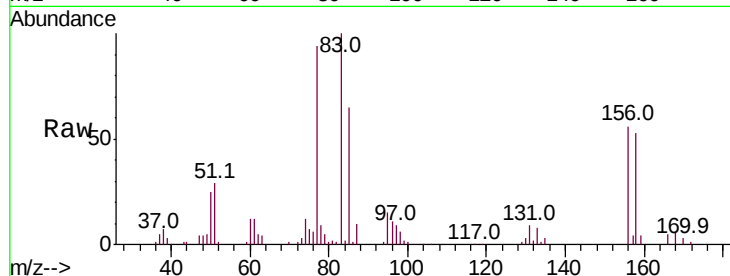
Tot Ion: 83 Resp: 52552

Ion Ratio Lower Upper

83 100

131 8.7 4.2 12.4

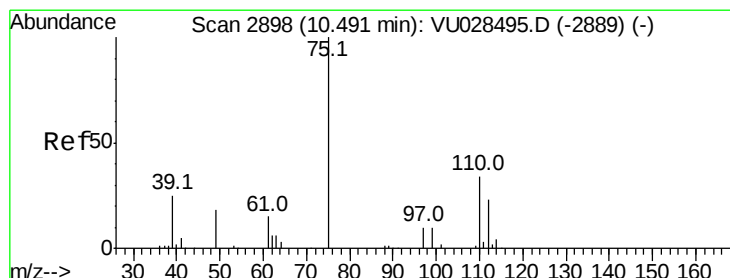
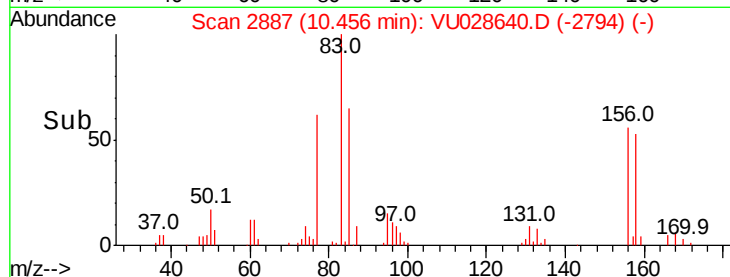
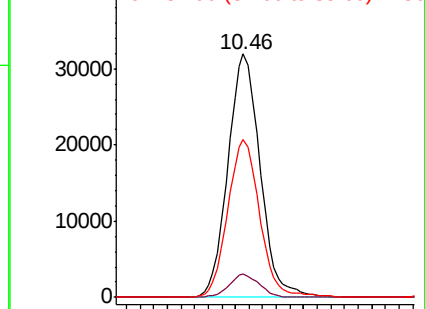
85 64.6 31.8 95.4



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: 29.949 ug/l

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU028640.D

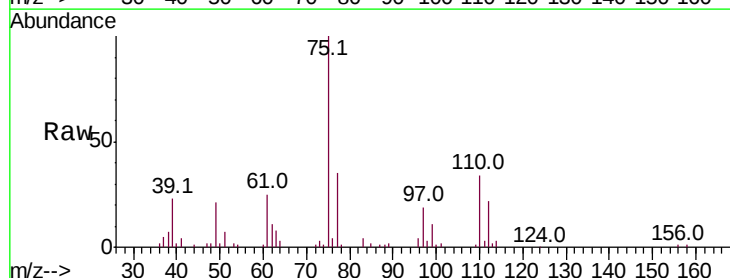
Acq: 12 Dec 2018 10:20

Tgt Ion: 75 Resp: 62917

Ion Ratio Lower Upper

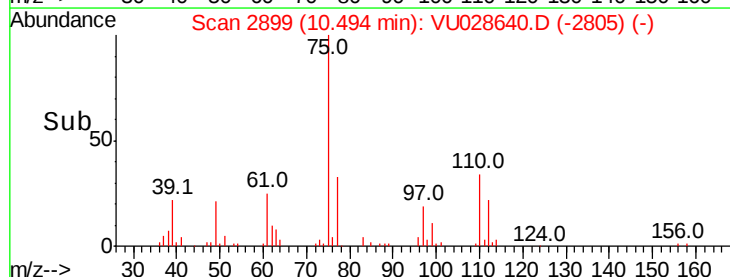
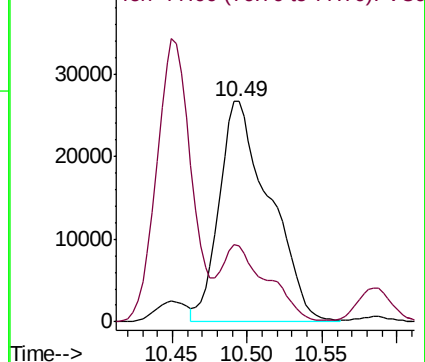
75 100

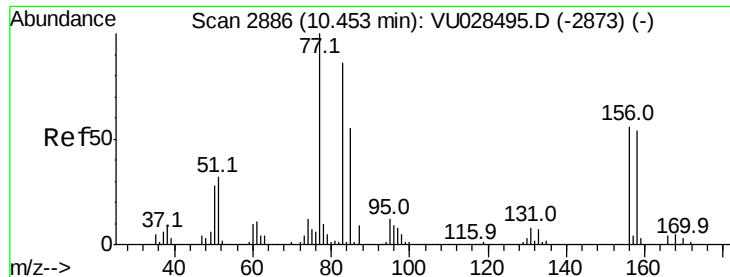
77 31.2 20.8 62.4



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: 20.852 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS02

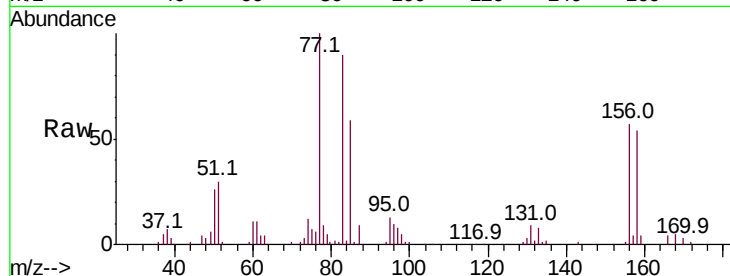
Tot Ion:156 Resp: 30787

Ion Ratio Lower Upper

156 100

77 177.7 92.4 277.2

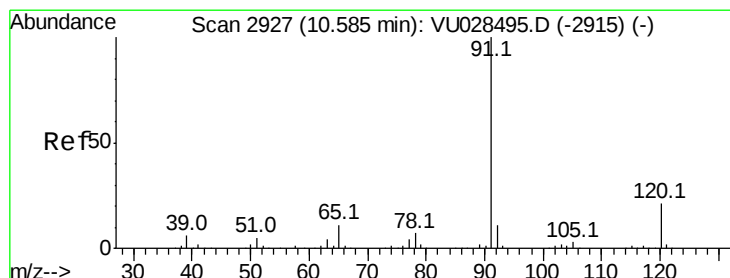
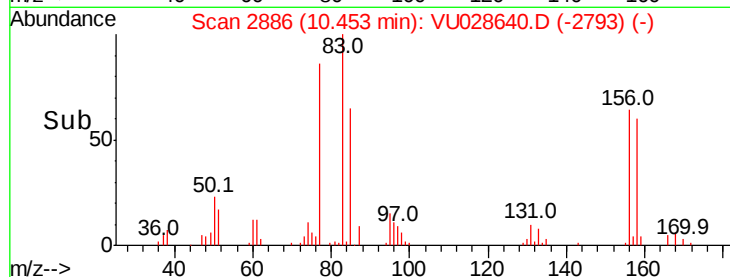
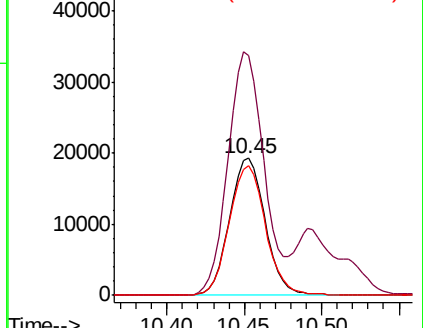
158 96.3 48.4 145.3



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: 19.600 ug/l

RT: 10.58 min Scan# 2927

Delta R.T. -0.00 min

Lab File: VU028640.D

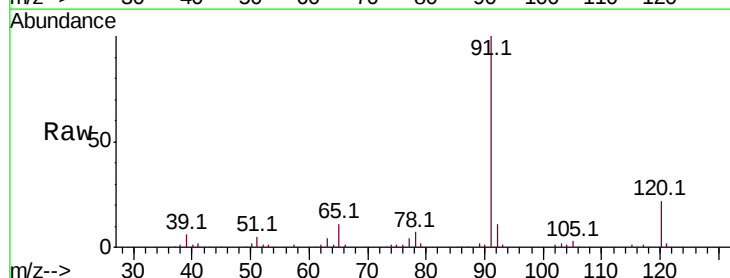
Acq: 12 Dec 2018 10:20

Tgt Ion: 91 Resp: 153753

Ion Ratio Lower Upper

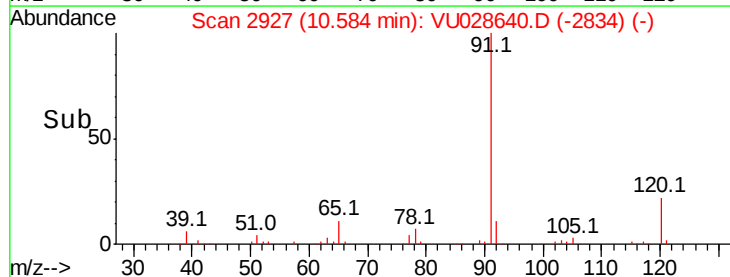
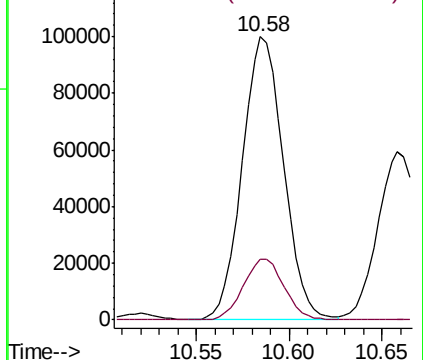
91 100

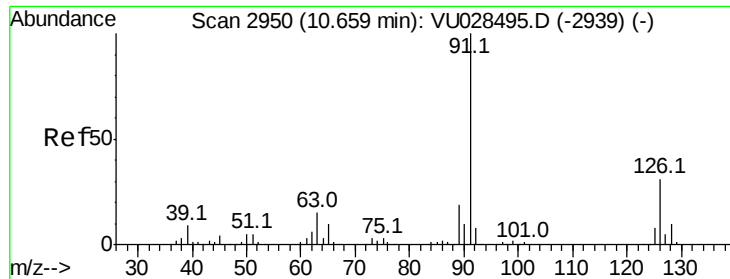
120 21.4 10.6 31.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V

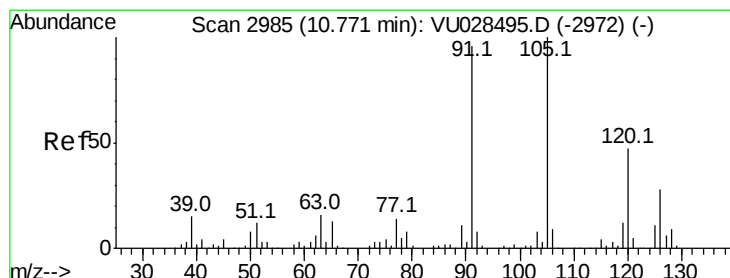
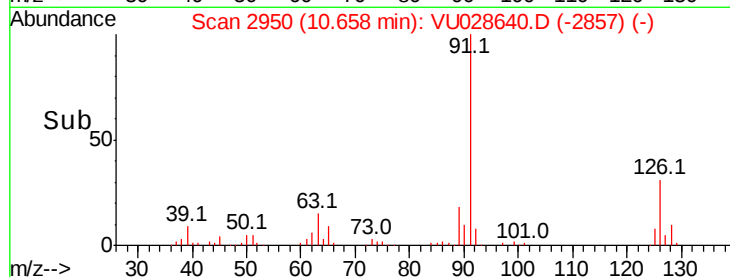
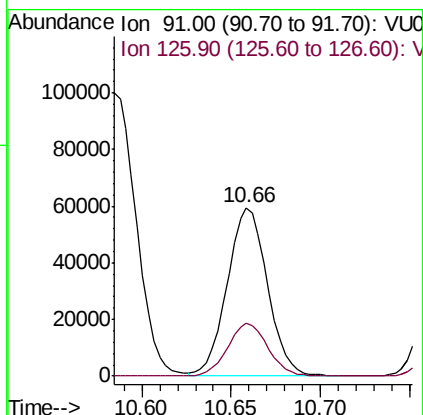
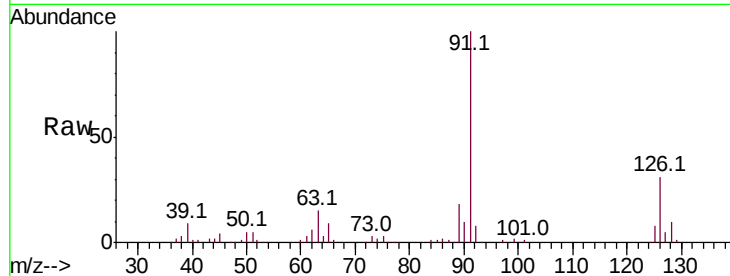




#79
 2-Chlorotoluene
 Concen: 20.384 ug/l
 RT: 10.66 min Scan# 2950
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

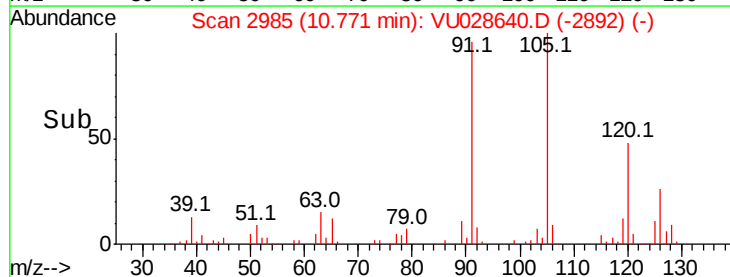
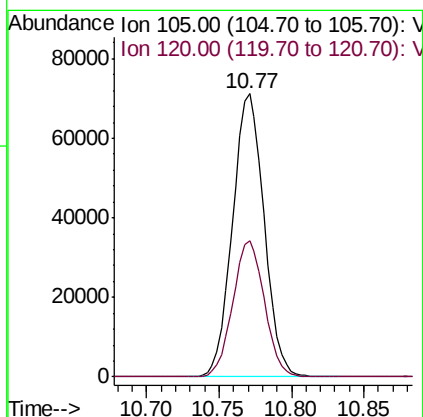
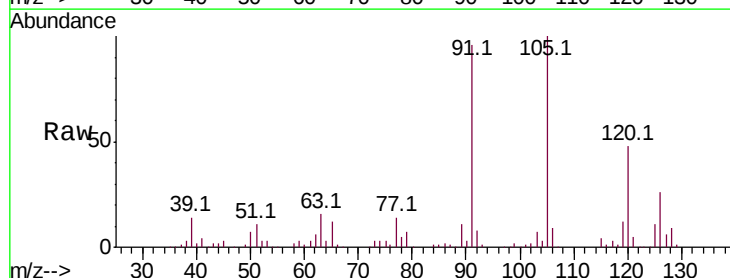
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS02

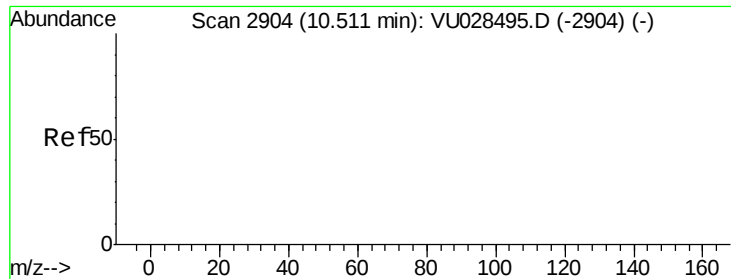
Tot Ion: 91 Resp: 92107
 Ion Ratio Lower Upper
 91 100
 126 31.7 15.6 46.8



#80
 1,3,5-Trimethylbenzene
 Concen: 20.583 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Tgt Ion:105 Resp: 107559
 Ion Ratio Lower Upper
 105 100
 120 48.1 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 73.386 ug/l

RT: 10.49 min Scan# 2899

Delta R.T. -0.02 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS02

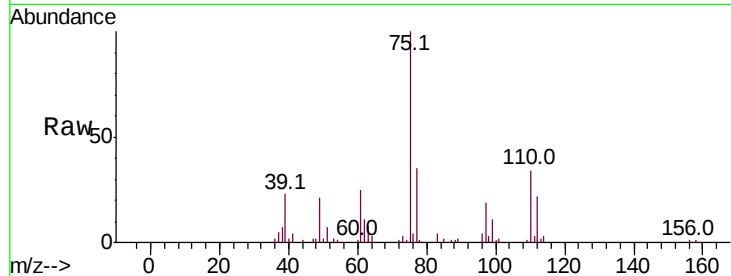
Tot Ion: 75 Resp: 62917

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

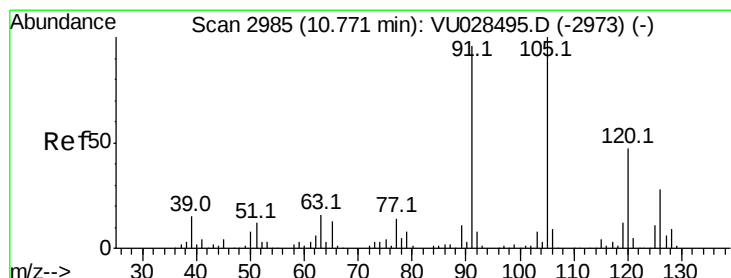
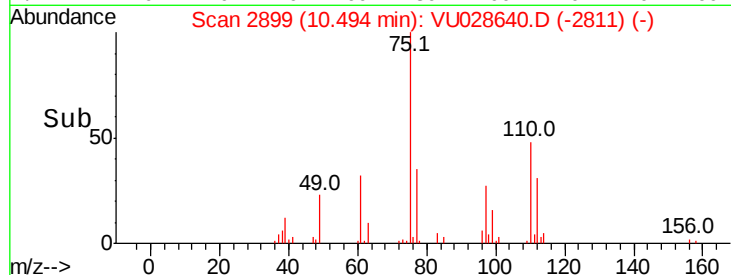
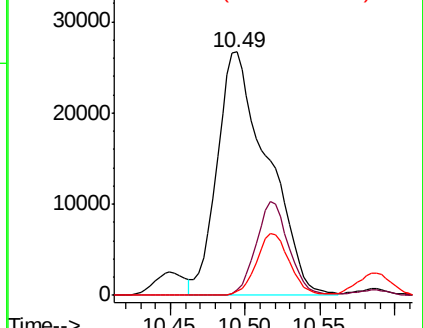
89 0.0 0.0 0.0



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: 19.446 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028640.D

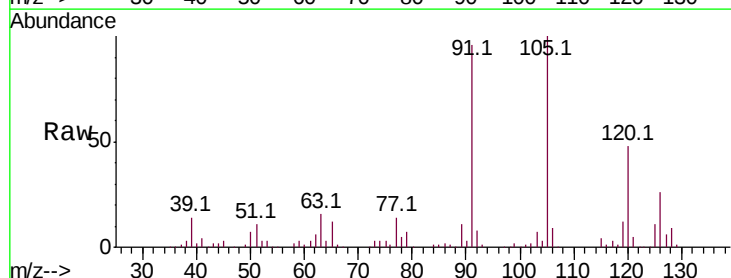
Acq: 12 Dec 2018 10:20

Tgt Ion: 91 Resp: 104127

Ion Ratio Lower Upper

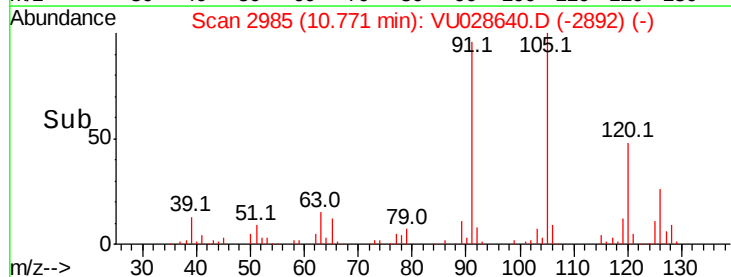
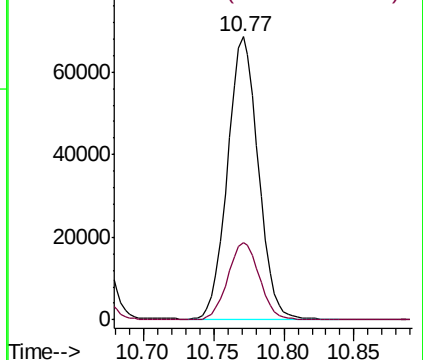
91 100

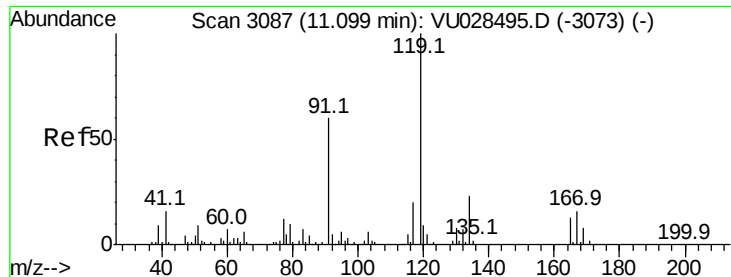
126 28.2 14.1 42.3



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

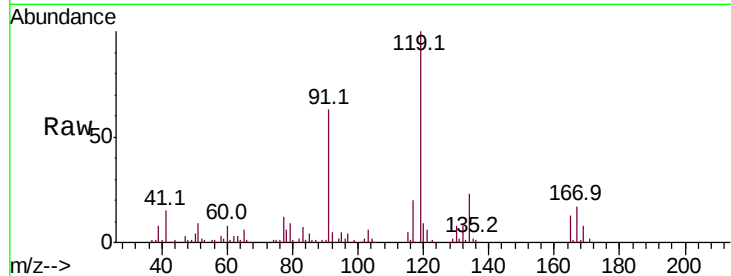




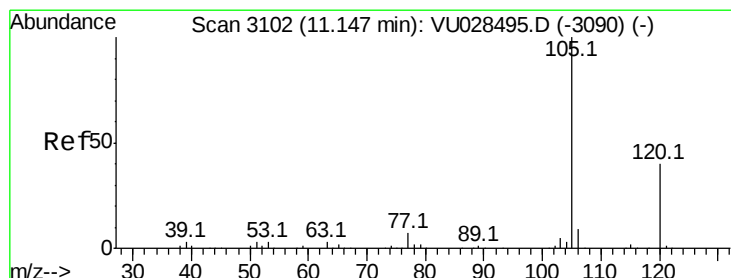
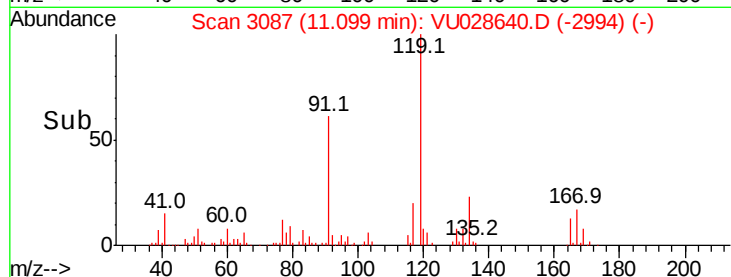
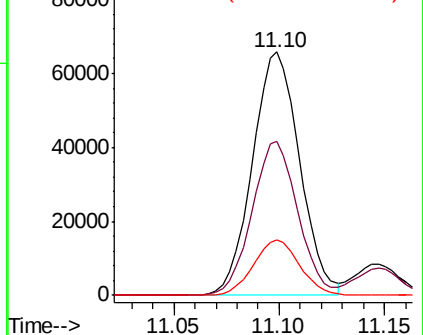
#83
tert-Butylbenzene
Concen: 20.402 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS02

Tot Ion:119 Resp: 102762
Ion Ratio Lower Upper
119 100
91 61.4 30.3 91.0
134 22.3 11.2 33.5

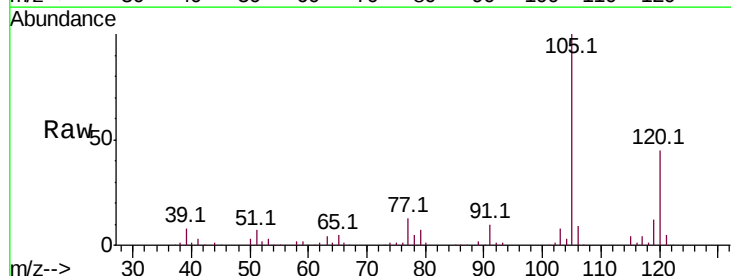


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

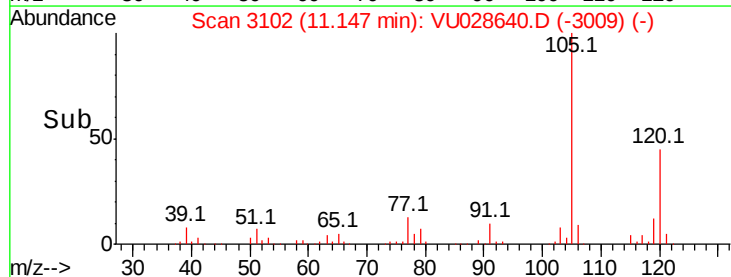
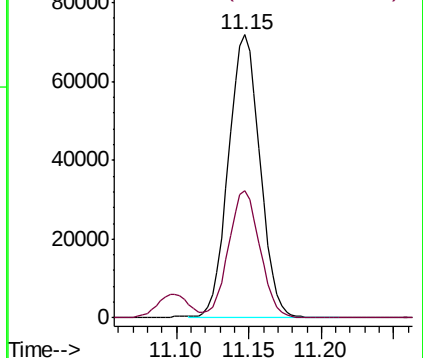


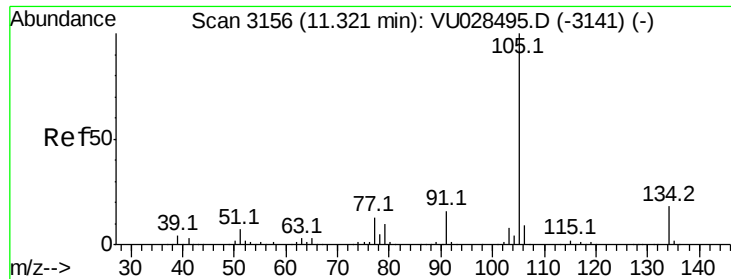
#84
1,2,4-Trimethylbenzene
Concen: 20.193 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. -0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Tgt Ion:105 Resp: 108753
Ion Ratio Lower Upper
105 100
120 44.8 21.8 65.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

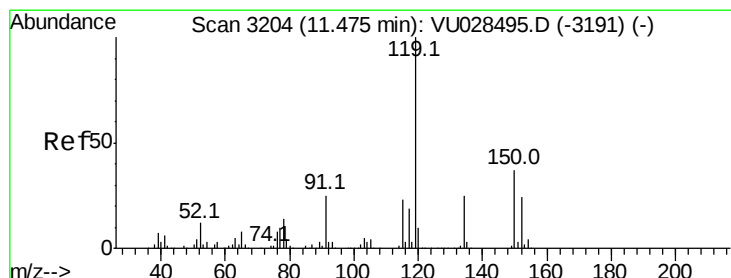
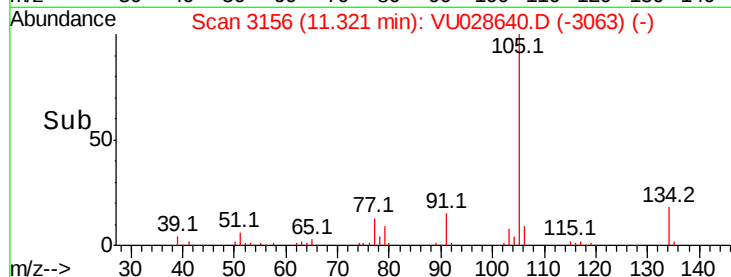
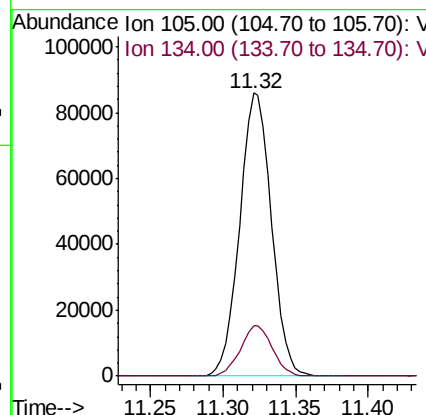
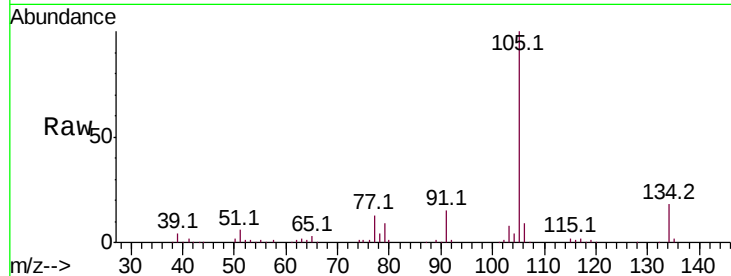




#85
 sec-Butylbenzene
 Concen: 20.166 ug/l
 RT: 11.32 min Scan# 3156
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

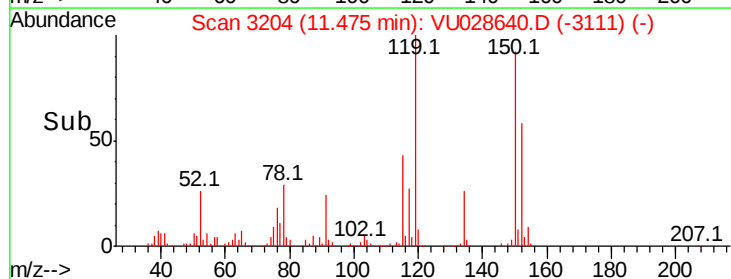
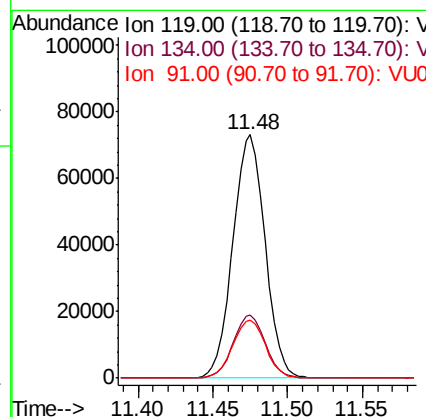
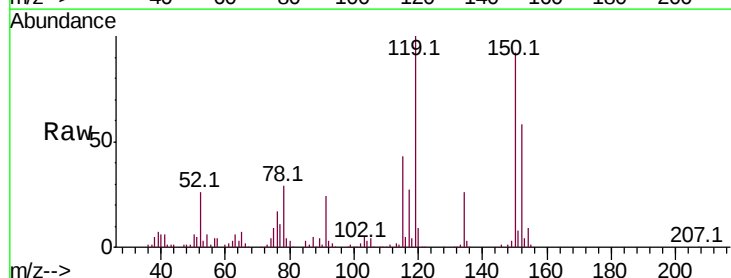
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS02

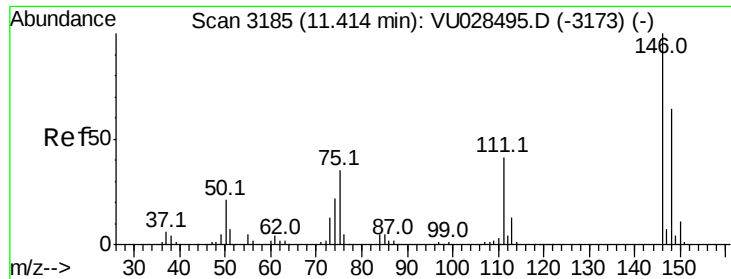
Tot Ion:105 Resp: 130490
 Ion Ratio Lower Upper
 105 100
 134 18.1 9.2 27.6



#86
 p-Isopropyltoluene
 Concen: 19.917 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Tgt Ion:119 Resp: 109480
 Ion Ratio Lower Upper
 119 100
 134 25.9 12.7 38.1
 91 24.3 12.6 37.6

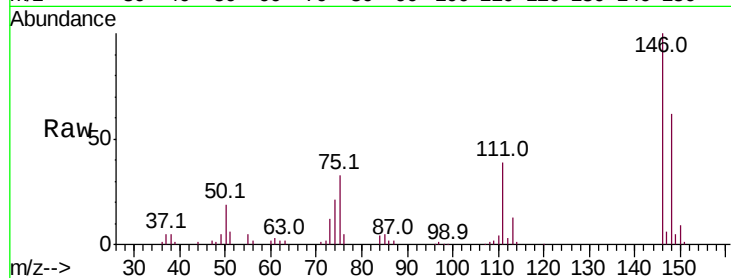




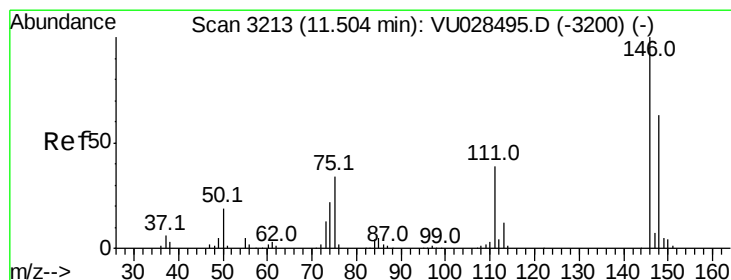
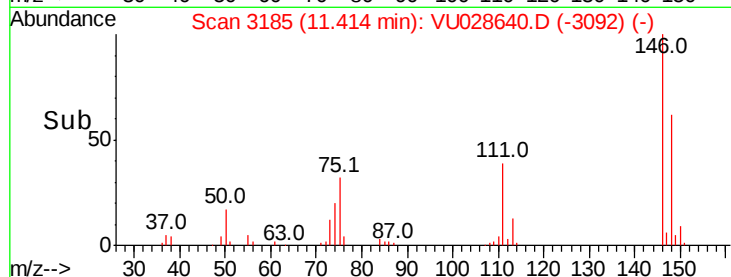
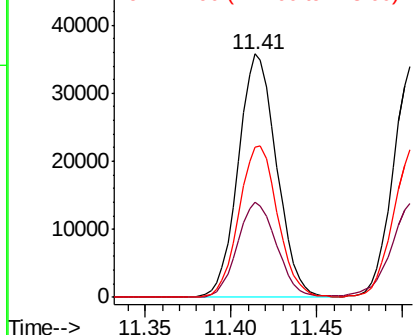
#87
 1,3-Dichlorobenzene
 Concen: 19.958 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS02

Tot Ion:146 Resp: 55641
 Ion Ratio Lower Upper
 146 100
 111 39.7 20.7 62.1
 148 62.9 31.9 95.7

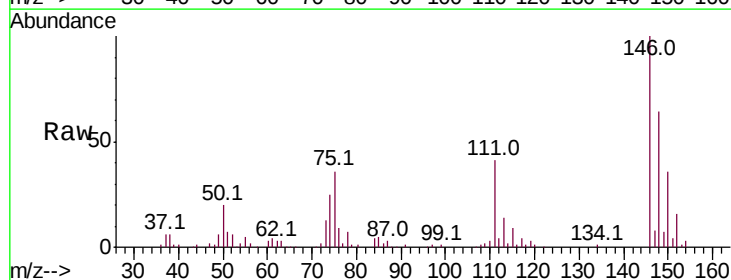


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

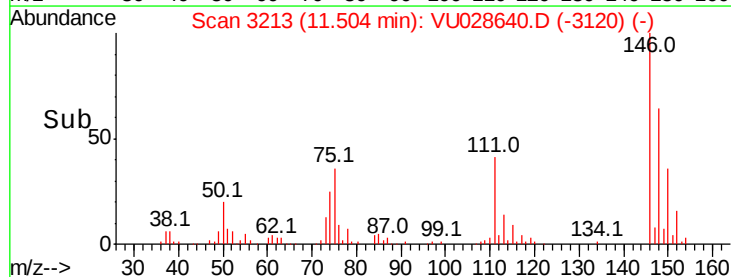
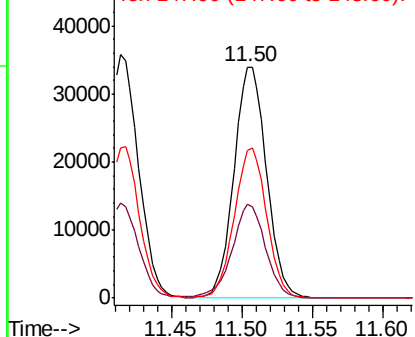


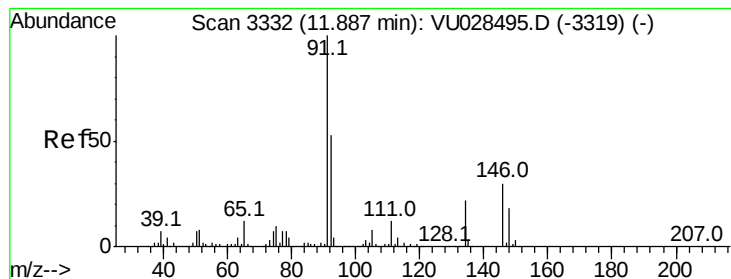
#88
 1,4-Dichlorobenzene
 Concen: 19.075 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Tgt Ion:146 Resp: 55021
 Ion Ratio Lower Upper
 146 100
 111 41.9 20.2 60.5
 148 64.8 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: 18.343 ug/l

RT: 11.89 min Scan# 3332

Delta R.T. -0.00 min

Lab File: VU028640.D

Acq: 12 Dec 2018 10:20

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBS02

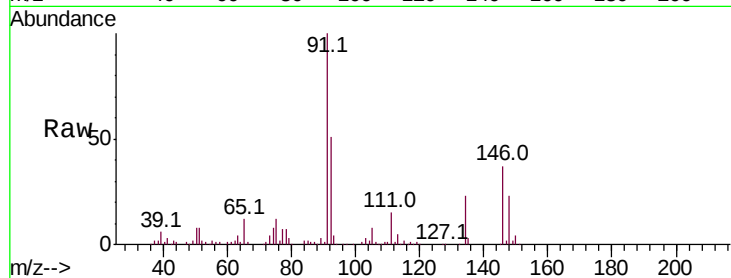
Tot Ion: 91 Resp: 102038

Ion Ratio Lower Upper

91 100

92 51.7 26.3 78.9

134 23.1 11.3 33.8

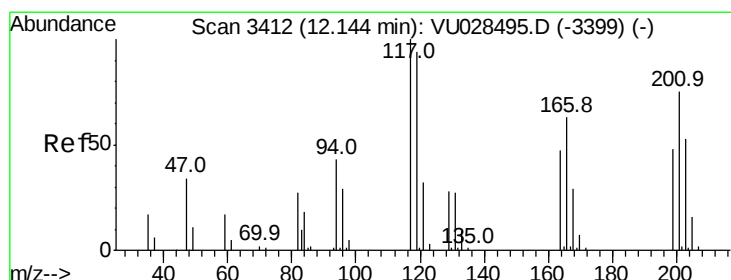
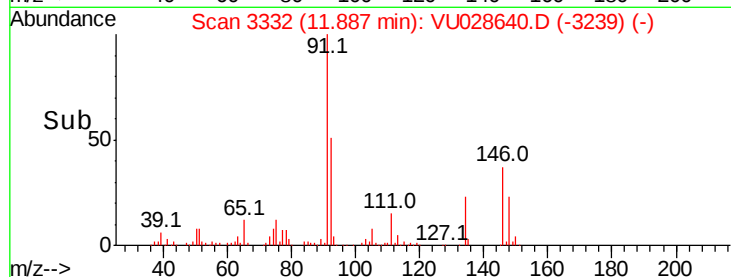


Abundance Ion 91.00 (90.70 to 91.70): VU028495.D (-3319) (-)

Ion 92.00 (91.70 to 92.70): VU028495.D (-3319) (-)

Ion 134.00 (133.70 to 134.70): VU028495.D (-3319) (-)

Time-->



#90

Hexachloroethane

Concen: 21.091 ug/l

RT: 12.14 min Scan# 3412

Delta R.T. -0.00 min

Lab File: VU028640.D

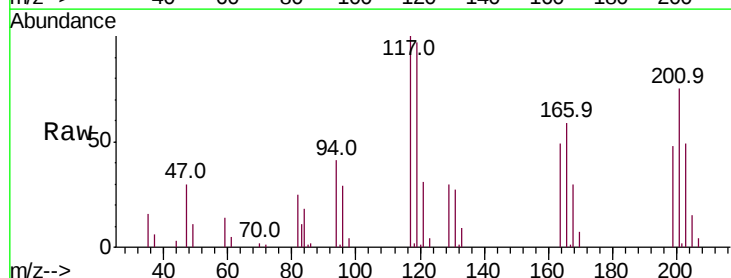
Acq: 12 Dec 2018 10:20

Tgt Ion: 117 Resp: 17523

Ion Ratio Lower Upper

117 100

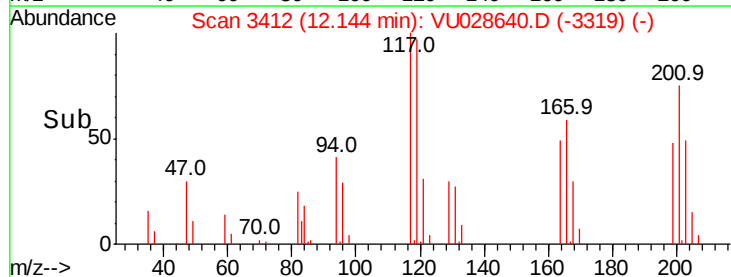
201 75.2 38.1 114.5

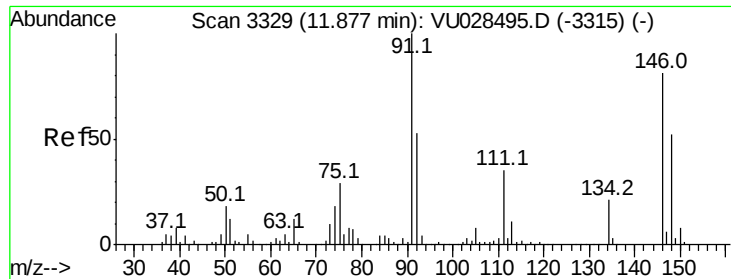


Abundance Ion 116.80 (116.50 to 117.50): VU028495.D (-3399) (-)

Ion 200.70 (200.40 to 201.40): VU028495.D (-3399) (-)

Time-->

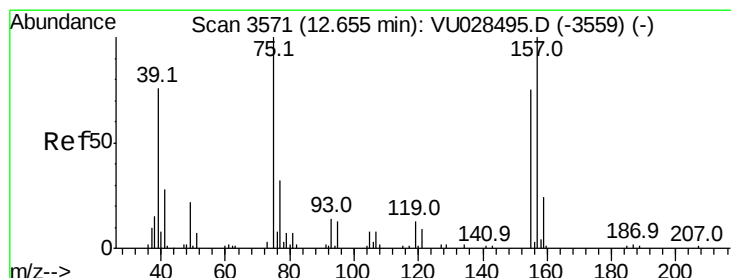
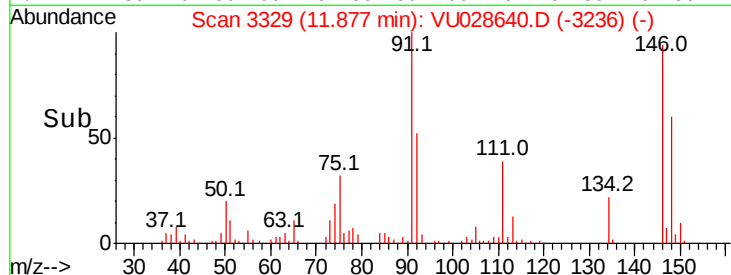
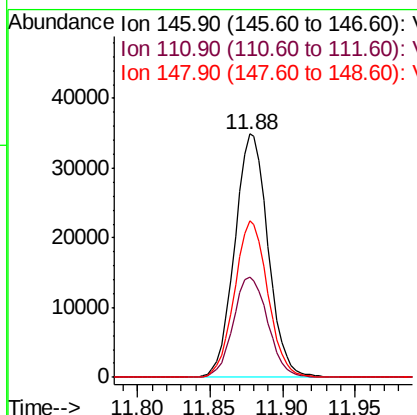
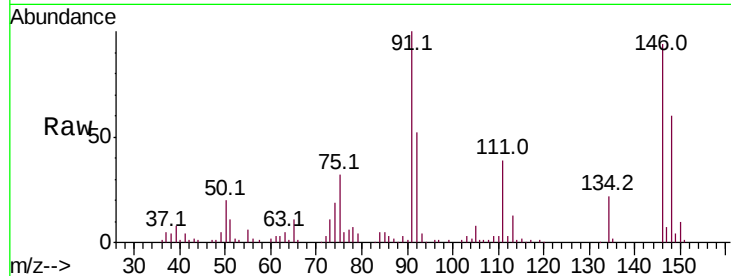




#91
 1,2-Dichlorobenzene
 Concen: 19.981 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

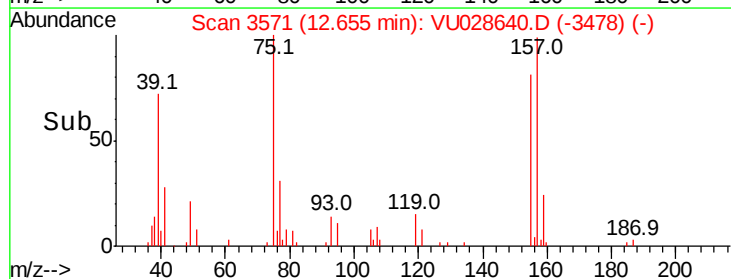
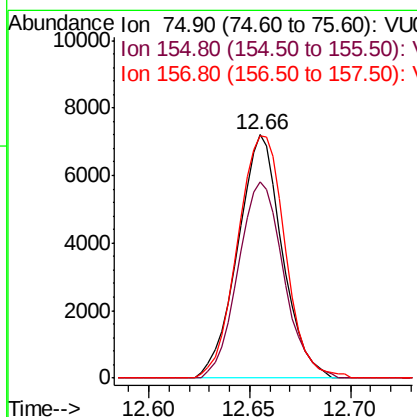
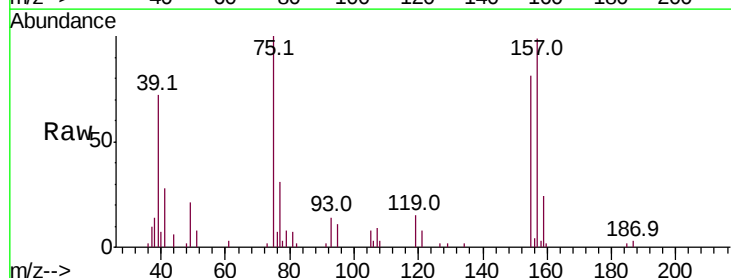
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS02

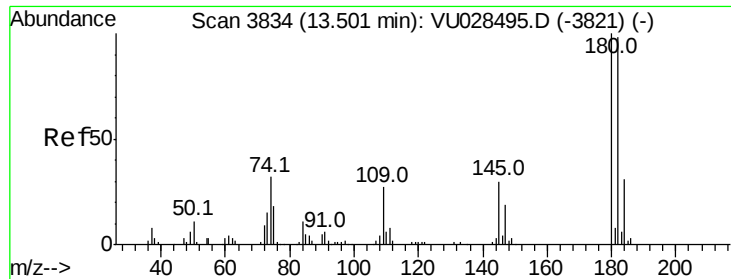
Tot Ion:146 Resp: 55721
 Ion Ratio Lower Upper
 146 100
 111 42.5 21.1 63.4
 148 64.1 31.4 94.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.182 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Tgt Ion: 75 Resp: 11121
 Ion Ratio Lower Upper
 75 100
 155 82.8 38.1 114.5
 157 106.6 48.7 146.1

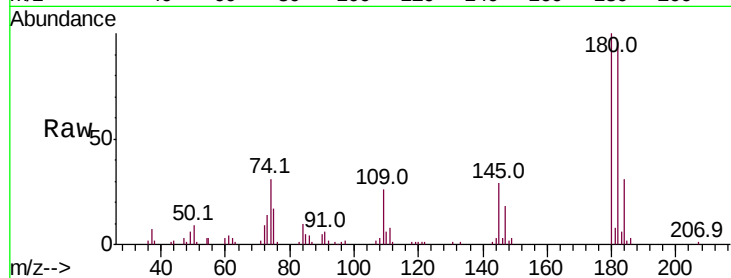




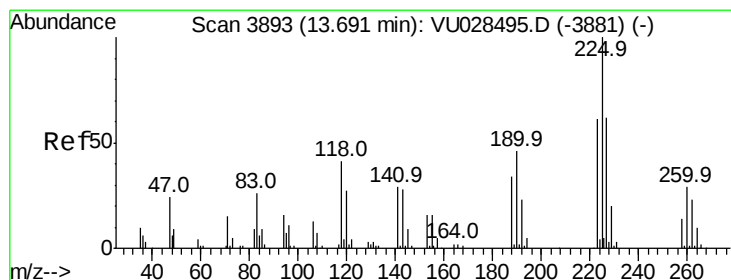
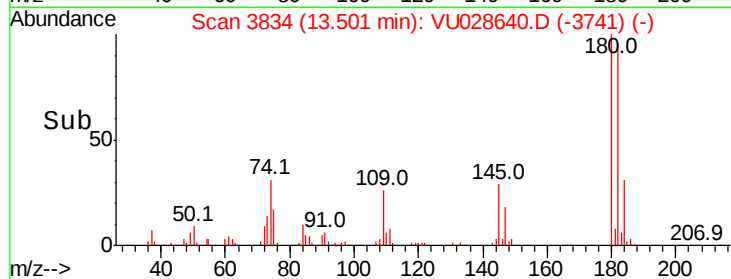
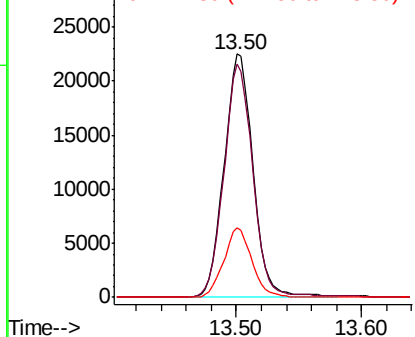
#93
 1,2,4-Trichlorobenzene
 Concen: 19.262 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBS02

Tot Ion:180 Resp: 35902
 Ion Ratio Lower Upper
 180 100
 182 96.1 47.9 143.8
 145 27.6 15.0 45.1

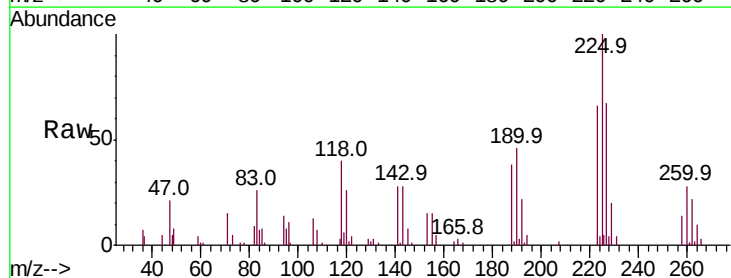


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

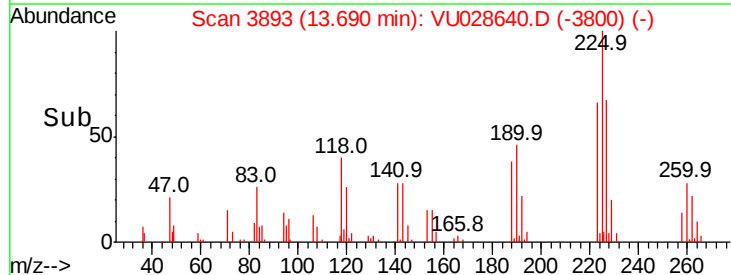
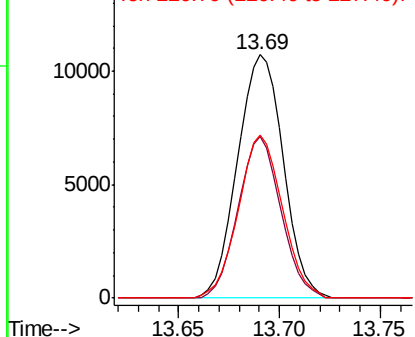


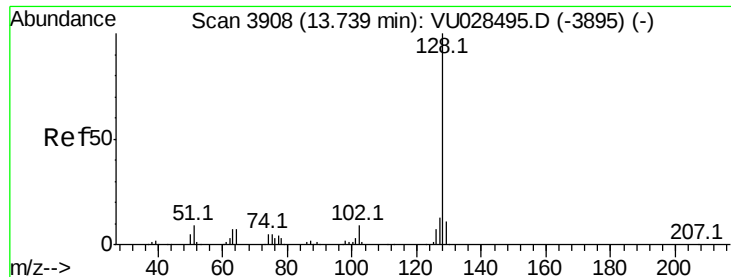
#94
 Hexachlorobutadiene
 Concen: 18.683 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. -0.00 min
 Lab File: VU028640.D
 Acq: 12 Dec 2018 10:20

Tgt Ion:225 Resp: 17067
 Ion Ratio Lower Upper
 225 100
 223 62.0 30.4 91.2
 227 64.5 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

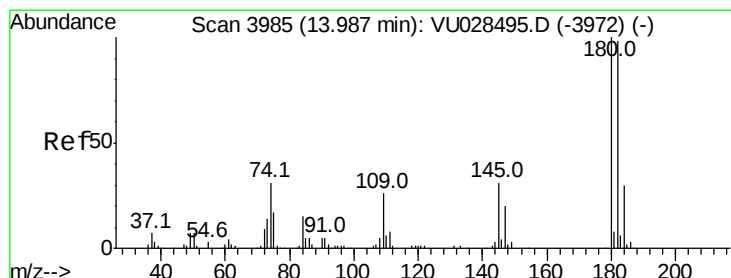
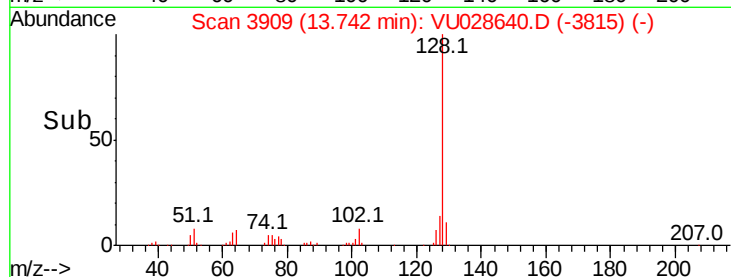
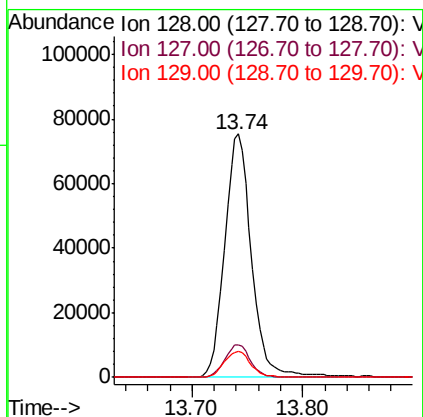
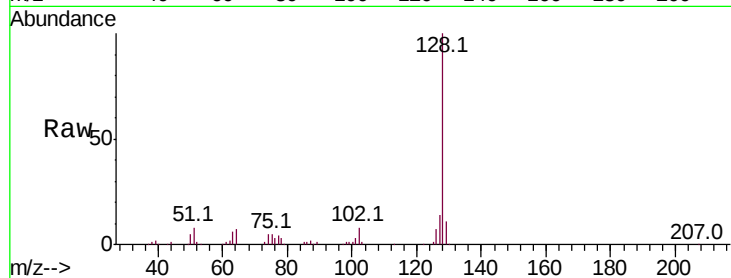




#95
Naphthalene
Concen: 18.941 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBS02

Tot Ion:128 Resp: 126753
Ion Ratio Lower Upper
128 100
127 12.9 10.4 15.6
129 10.7 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 19.293 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028640.D
Acq: 12 Dec 2018 10:20

Tgt Ion:180 Resp: 36624
Ion Ratio Lower Upper
180 100
182 97.2 48.2 144.6
145 31.7 15.8 47.3

