

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082818\
 Data File : VU026401.D
 Acq On : 28 Aug 2018 16:02
 Operator : MD/SY
 Sample : VSTD0.542
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.542

Quant Time: Aug 28 23:53:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR082818WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Aug 28 23:50:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	62752	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	60977	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	28188	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	4108	0.49	ug/L	0.00
7) Chloroethane-d5	1.68	69	3113	0.50	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	6978	0.49	ug/L	0.00
20) 2-Butanone-d5	4.20	46	7168	4.64	ug/L	0.00
24) Chloroform-d	4.65	84	3939	0.41	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	3147	0.52	ug/L	0.00
32) Benzene-d6	5.34	84	9820	0.47	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	3314	0.48	ug/L	0.00
41) Toluene-d8	7.57	98	8864	0.45	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.86	79	1126	0.45	ug/L	0.00
46) 2-Hexanone-d5	8.32	63	4055	3.63	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.44	84	2607	0.49	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	3269	0.50	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	3092	0.514 ug/L	94
3) Chloromethane	1.33	50	4216	0.529 ug/L	95
5) Vinyl chloride	1.40	62	4052	0.505 ug/L	98
6) Bromomethane	1.63	94	1878	0.487 ug/L	100
8) Chloroethane	1.70	64	2564	0.543 ug/L	91
9) Trichlorofluoromethane	1.89	101	4747	0.497 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	2811	0.501 ug/L	97
12) 1,1-Dichloroethene	2.29	96	2506	0.488 ug/L	88
13) Acetone	2.32	43	7139	6.255 ug/L	94
14) Carbon disulfide	2.48	76	10036	0.532 ug/L	99
15) Methyl Acetate	2.62	43	1922	0.597 ug/L #	90
16) Methylene chloride	2.70	84	3944	0.614 ug/L	96
17) Methyl tert-butyl Ether	3.00	73	6498	0.504 ug/L #	88
18) trans-1,2-Dichloroethene	2.98	96	2821	0.502 ug/L	90
19) 1,1-Dichloroethane	3.45	63	6073	0.521 ug/L	94
21) 2-Butanone	4.29	43	7501	5.122 ug/L	98
22) cis-1,2-Dichloroethene	4.23	96	3173	0.558 ug/L	90
23) Bromochloromethane	4.55	128	1183	0.514 ug/L	94
25) Chloroform	4.67	83	6303	0.563 ug/L	93
27) 1,2-Dichloroethane	5.41	62	3334	0.535 ug/L #	92
29) 1,1,1-Trichloroethane	4.92	97	3930	0.513 ug/L	96
30) Cyclohexane	4.99	56	3702	0.473 ug/L	97
31) Carbon tetrachloride	5.13	117	3610	0.523 ug/L	99
33) Benzene	5.39	78	10072	0.498 ug/L	100
34) Trichloroethene	6.19	95	3234	0.592 ug/L	96
35) Methylcyclohexane	6.42	83	3402	0.438 ug/L	91
37) 1,2-Dichloropropane	6.44	63	2858	0.509 ug/L #	91
38) Bromodichloromethane	6.76	83	3507	0.532 ug/L	97
39) cis-1,3-Dichloropropene	7.28	75	3317	0.465 ug/L	96
40) 4-Methyl-2-pentanone	7.47	43	14201	4.495 ug/L #	95

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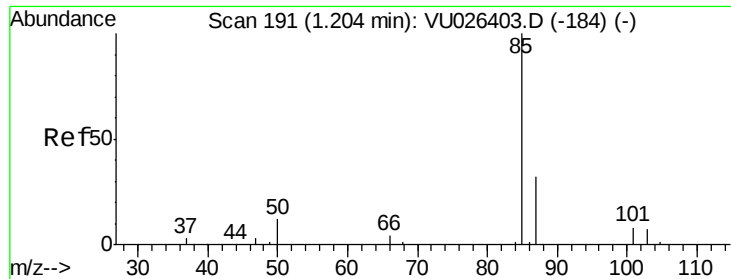
Instrument :
 MSVOA_U
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR082818WMA.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.64	91	9570	0.464	ug/L	100
44) trans-1,3-Dichloropropene	7.89	75	2719	0.463	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	1758	0.499	ug/L	90
47) Tetrachloroethene	8.23	164	2135	0.519	ug/L	89
48) 2-Hexanone	8.37	43	10369	4.432	ug/L #	94
49) Dibromochloromethane	8.48	129	2181	0.508	ug/L	97
50) 1,2-Dibromoethane	8.60	107	1710	0.514	ug/L #	88
51) Chlorobenzene	9.12	112	6797	0.508	ug/L	97
52) Ethylbenzene	9.25	91	9727	0.445	ug/L	96
53) m,p-xylene	9.38	106	3504	0.436	ug/L	98
54) o-xylene	9.78	106	3174	0.417	ug/L	85
55) Styrene	9.80	104	5361	0.403	ug/L	90
56) Isopropylbenzene	10.17	105	8218	0.406	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.46	83	2297	0.498	ug/L	92
59) 1,2,3-Trichloropropane	10.50	75	1750	0.540	ug/L	93
61) Bromoform	9.96	173	1110	0.497	ug/L #	95
62) 1,3-Dichlorobenzene	11.42	146	4519	0.497	ug/L	96
63) 1,4-Dichlorobenzene	11.51	146	4949	0.518	ug/L	100
65) 1,2-Dichlorobenzene	11.89	146	4381	0.488	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.66	75	293	0.488	ug/L #	85
67) 1,3,5-Trichlorobenzene	12.89	180	3908	0.514	ug/L	93
68) 1,2,4-trichlorobenzene	13.51	180	2859	0.468	ug/L	99
69) Naphthalene	13.75	128	3857	0.413	ug/L #	95
70) 1,2,3-Trichlorobenzene	13.99	180	2556	0.452	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 0.514 ug/L

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

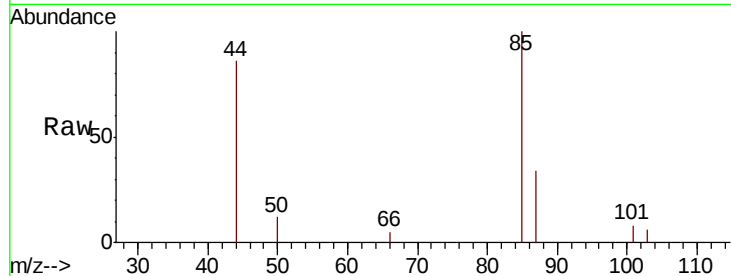
VSTD0.542

Tgt Ion: 85 Resp: 3092

Ion Ratio Lower Upper

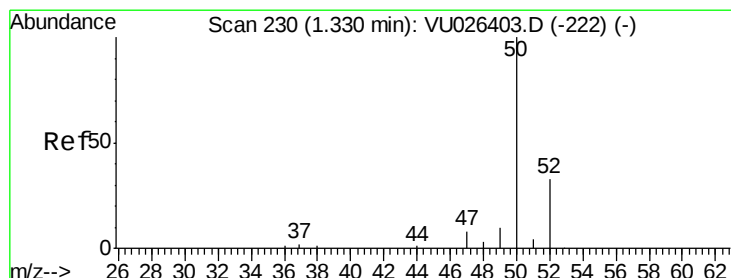
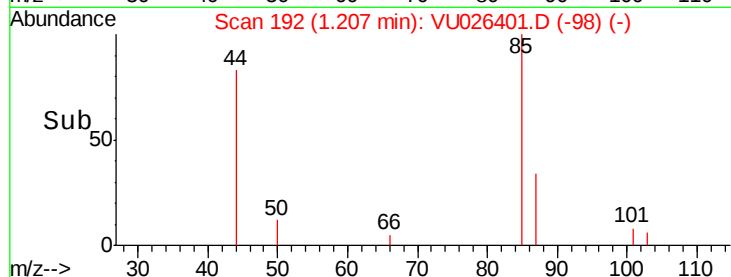
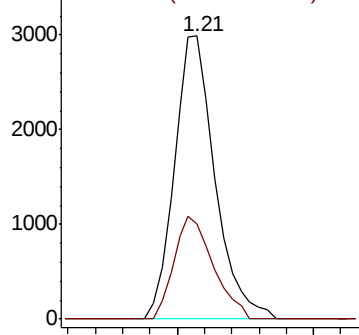
85 100

87 35.0 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.529 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU026401.D

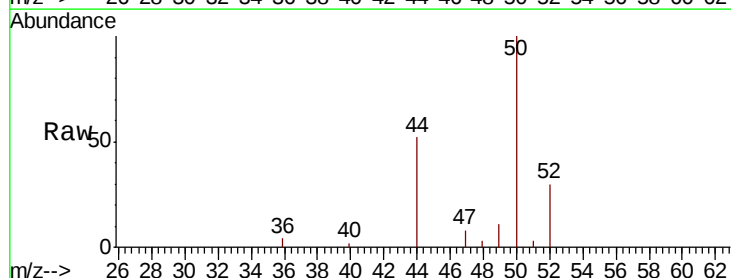
Acq: 28 Aug 2018 16:02

Tgt Ion: 50 Resp: 4216

Ion Ratio Lower Upper

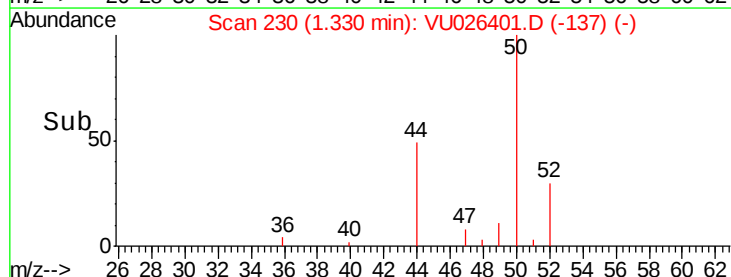
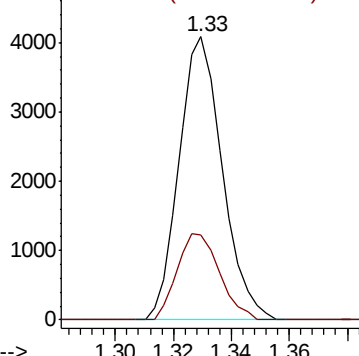
50 100

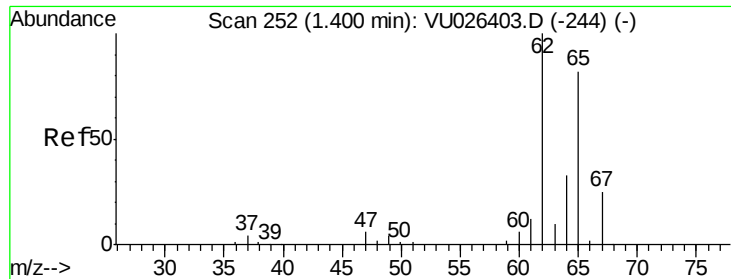
52 30.3 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.505 ug/L

RT: 1.40 min Scan# 252

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

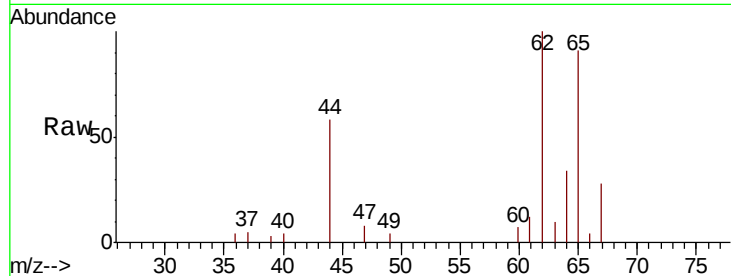
VSTD0.542

Tgt Ion: 62 Resp: 4052

Ion Ratio Lower Upper

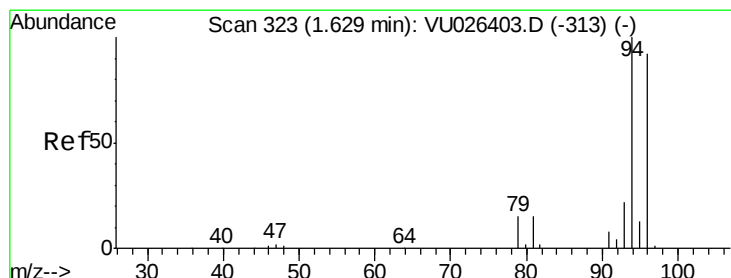
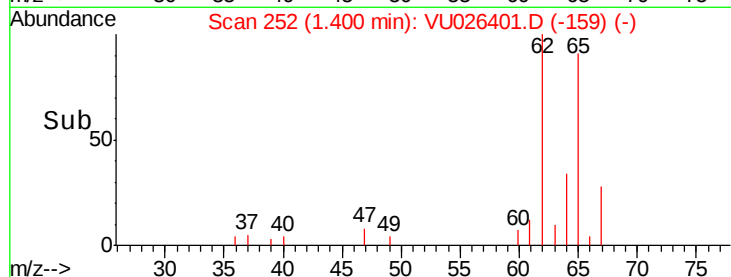
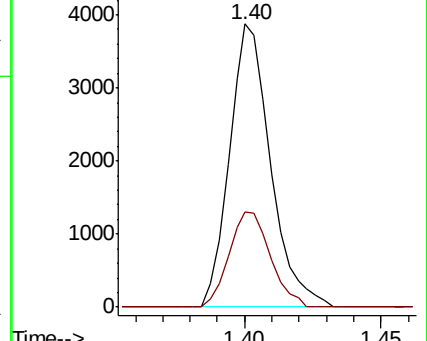
62 100

64 33.8 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.487 ug/L

RT: 1.63 min Scan# 323

Delta R.T. -0.00 min

Lab File: VU026401.D

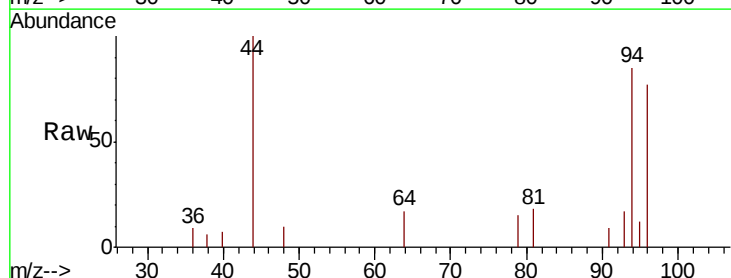
Acq: 28 Aug 2018 16:02

Tgt Ion: 94 Resp: 1878

Ion Ratio Lower Upper

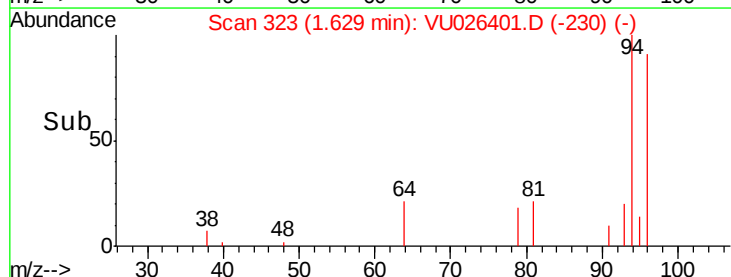
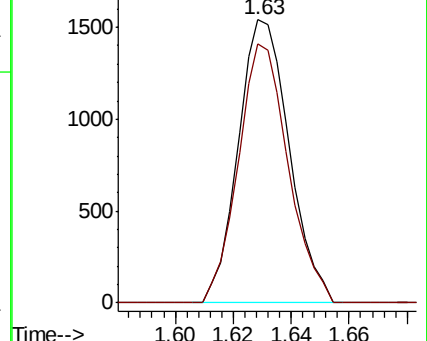
94 100

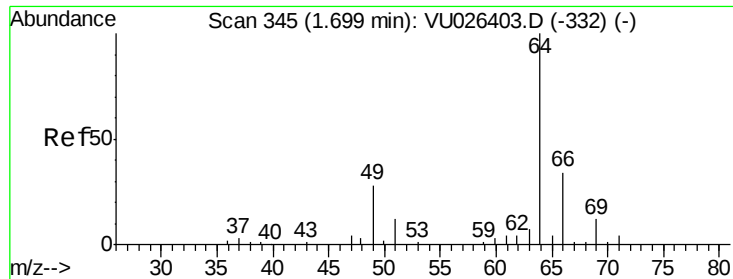
96 91.4 64.3 119.5



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 0.543 ug/L

RT: 1.70 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

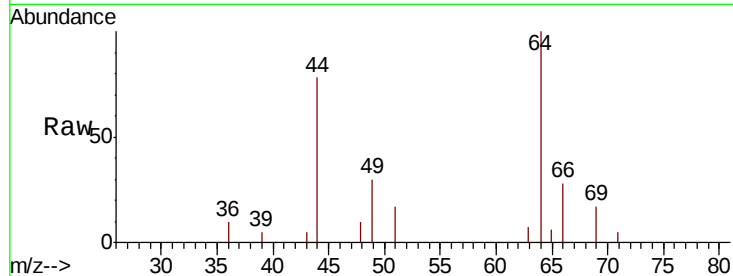
VSTD0.542

Tgt Ion: 64 Resp: 2564

Ion Ratio Lower Upper

64 100

66 28.2 23.2 43.2



Abundance Ion 64.10 (63.80 to 64.80): VU026401.D (-252) (-)

Ion 66.05 (65.75 to 66.75): VU026401.D (-252) (-)

1.70

2000

1500

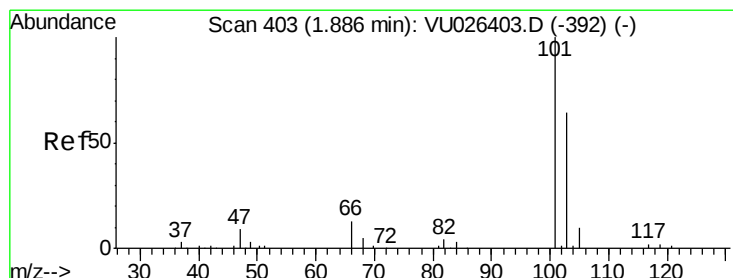
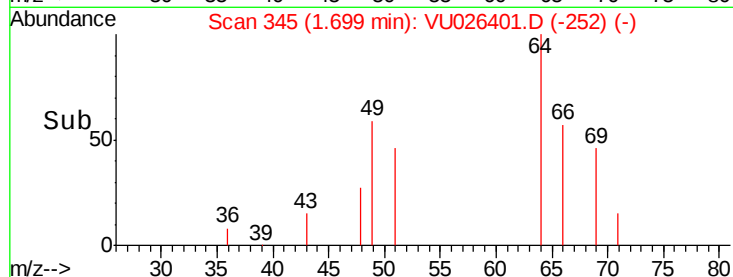
1000

500

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 0.497 ug/L

RT: 1.89 min Scan# 403

Delta R.T. -0.00 min

Lab File: VU026401.D

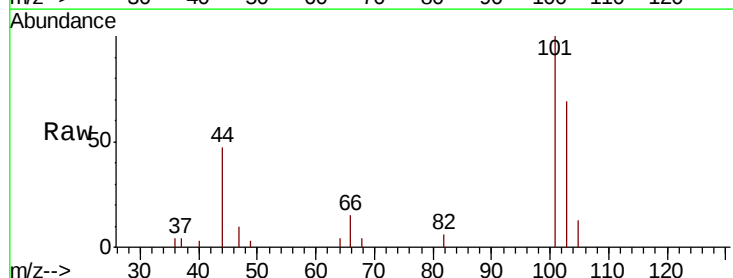
Acq: 28 Aug 2018 16:02

Tgt Ion: 101 Resp: 4747

Ion Ratio Lower Upper

101 100

103 67.5 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VU026401.D (-310) (-)

Ion 103.00 (102.70 to 103.70): VU026401.D (-310) (-)

1.89

4000

3000

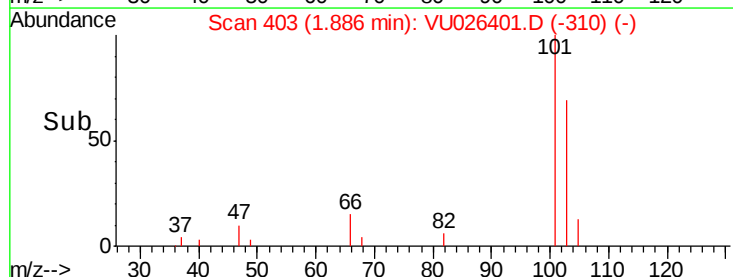
2000

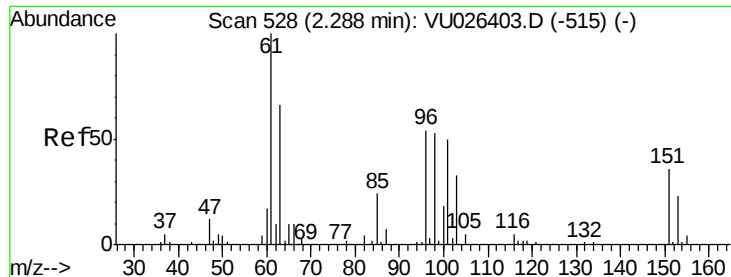
1000

0

1.85 1.90

Time-->





#10

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

Concen: 0.501 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.542

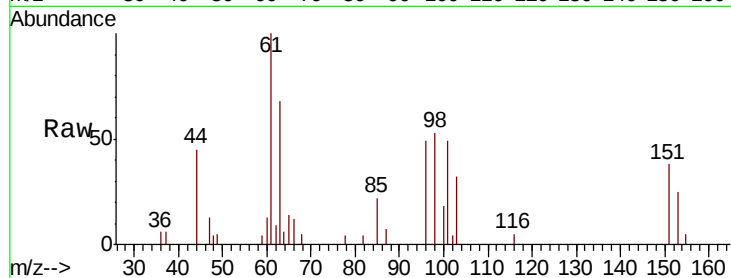
Tgt Ion: 101 Resp: 2811

Ion Ratio Lower Upper

101 100

85 44.3 36.0 54.0

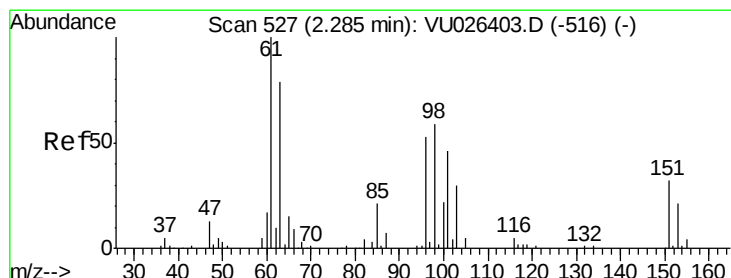
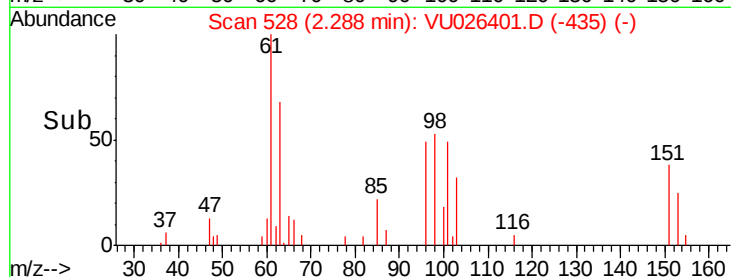
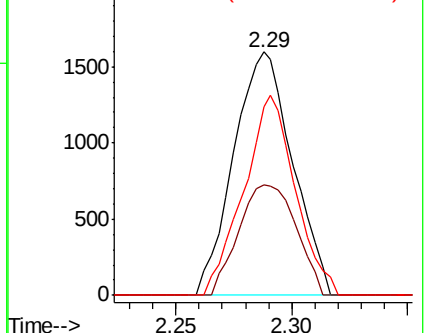
151 72.4 55.5 83.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.488 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

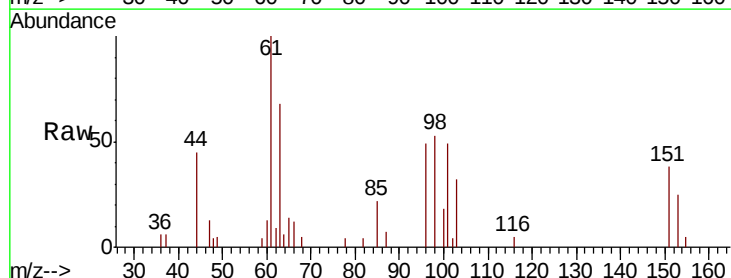
Tgt Ion: 96 Resp: 2506

Ion Ratio Lower Upper

96 100

61 203.7 133.5 247.9

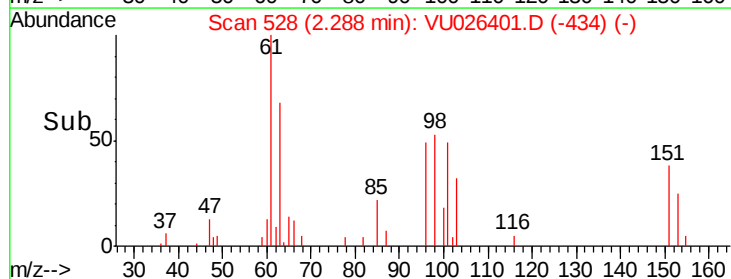
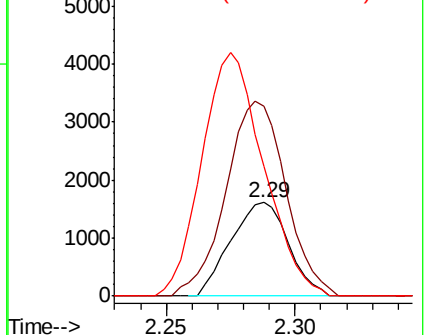
63 138.8 112.3 208.7

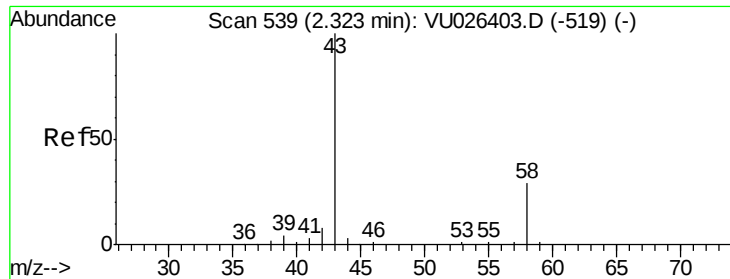


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.255 ug/L

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

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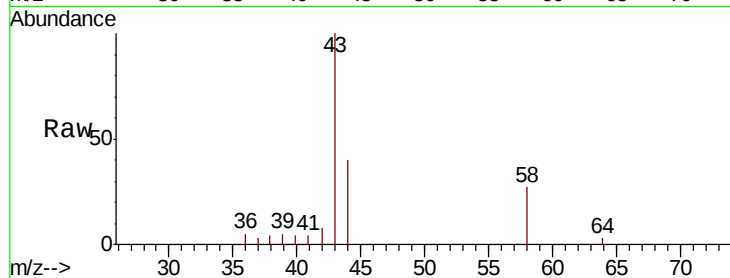
VSTD0.542

Tgt Ion: 43 Resp: 7139

Ion Ratio Lower Upper

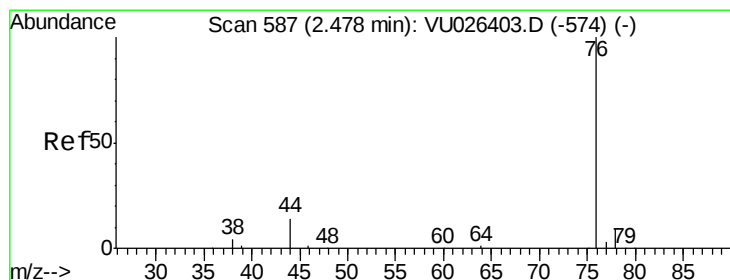
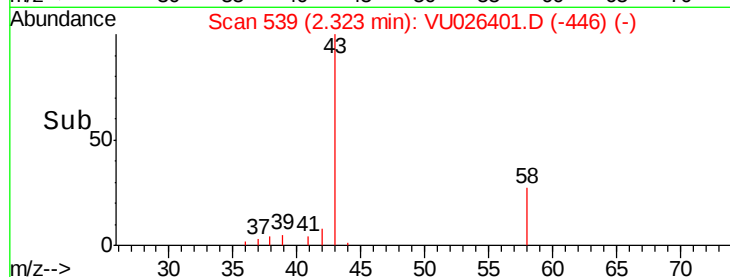
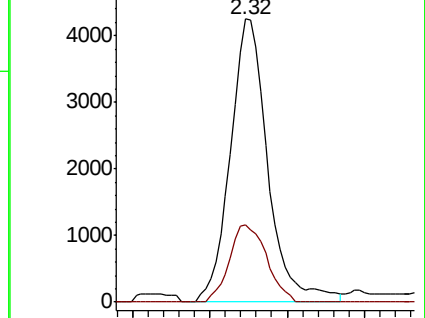
43 100

58 27.0 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 0.532 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU026401.D

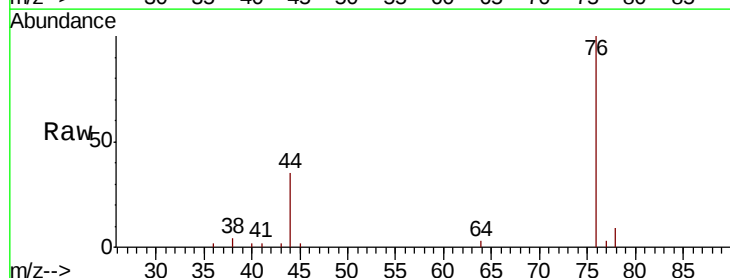
Acq: 28 Aug 2018 16:02

Tgt Ion: 76 Resp: 10036

Ion Ratio Lower Upper

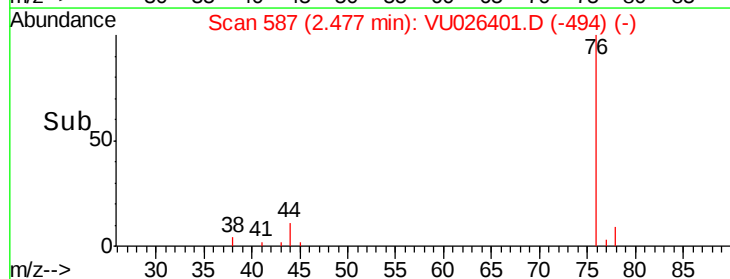
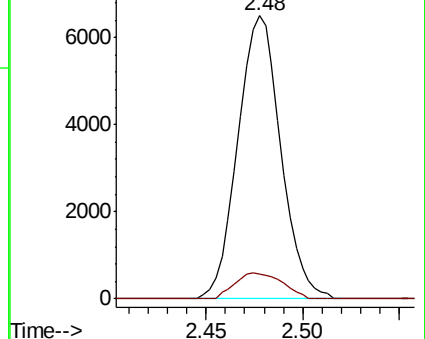
76 100

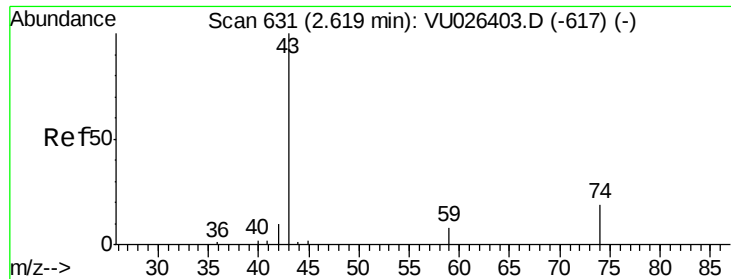
78 8.7 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 0.597 ug/L

RT: 2.62 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

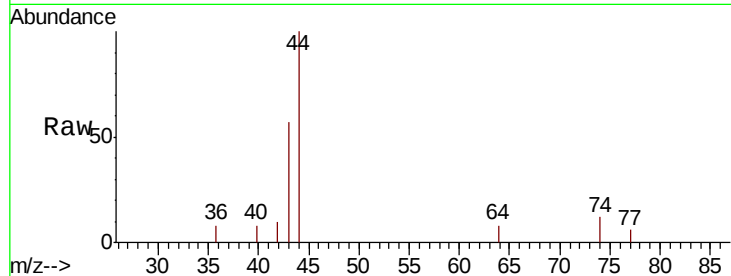
VSTD0.542

Tgt Ion: 43 Resp: 1922

Ion Ratio Lower Upper

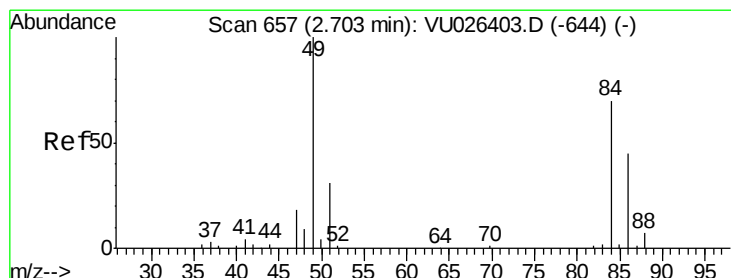
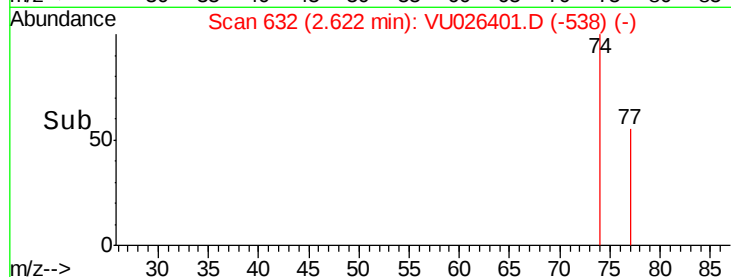
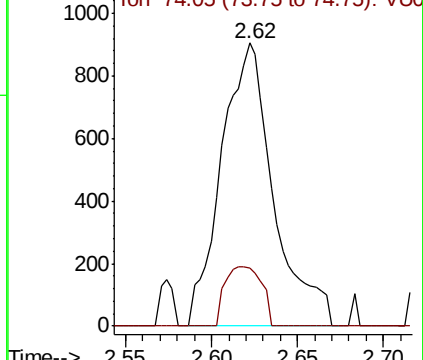
43 100

74 14.6 15.4 23.2#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 0.614 ug/L

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

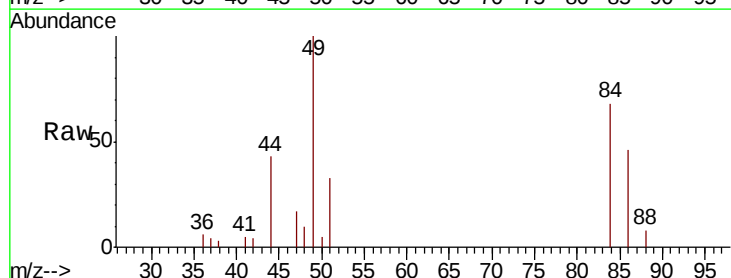
Tgt Ion: 84 Resp: 3944

Ion Ratio Lower Upper

84 100

86 67.3 44.9 83.3

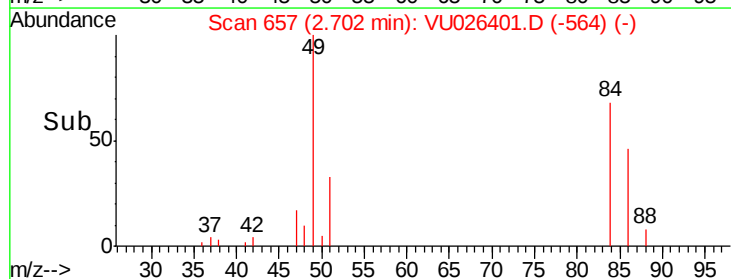
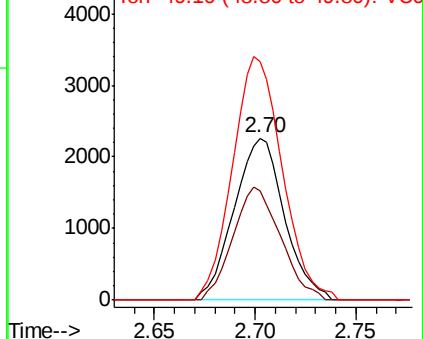
49 147.2 99.7 185.1

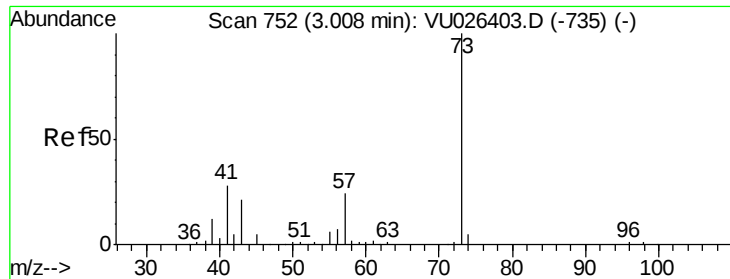


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

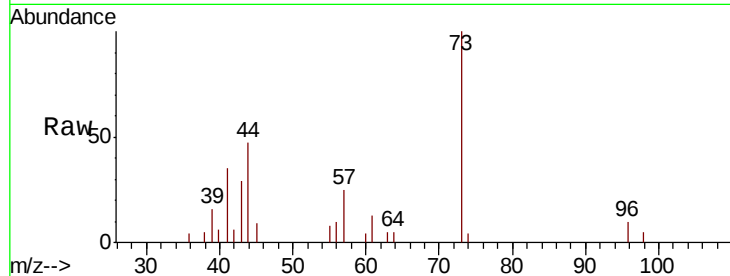




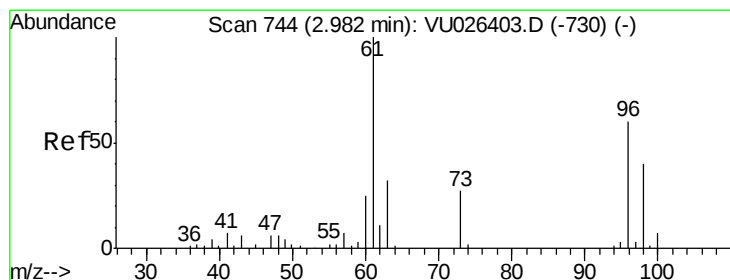
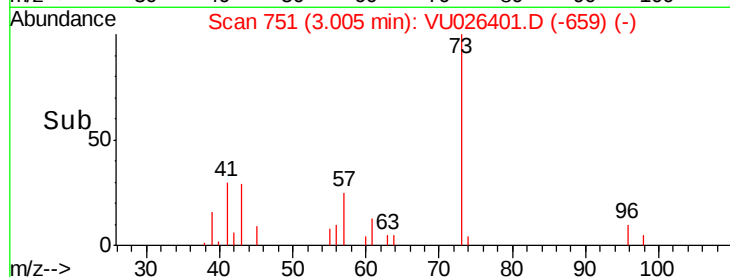
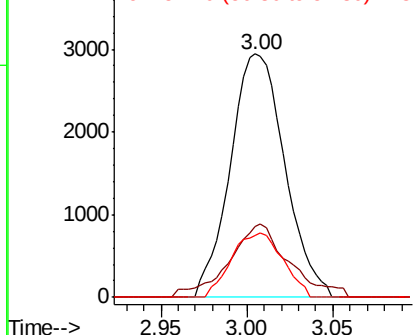
#17
Methyl tert-butyl Ether
Concen: 0.504 ug/L
RT: 3.00 min Scan# 751
Delta R.T. -0.00 min
Lab File: VU026401.D
Acq: 28 Aug 2018 16:02

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.542

Tgt Ion: 73 Resp: 6498
Ion Ratio Lower Upper
73 100
43 33.2 17.6 26.4#
57 24.8 19.0 28.6

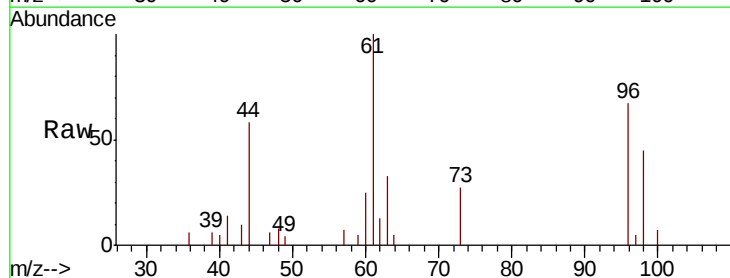


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

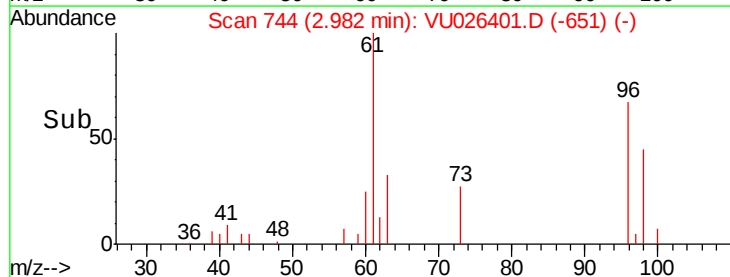
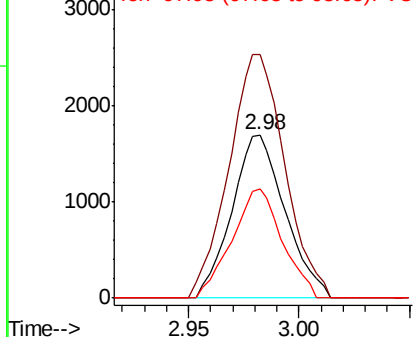


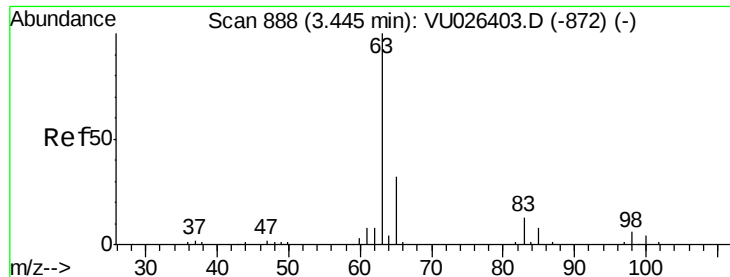
#18
trans-1,2-Dichloroethene
Concen: 0.502 ug/L
RT: 2.98 min Scan# 744
Delta R.T. -0.00 min
Lab File: VU026401.D
Acq: 28 Aug 2018 16:02

Tgt Ion: 96 Resp: 2821
Ion Ratio Lower Upper
96 100
61 149.3 116.6 216.6
98 67.3 46.1 85.7



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

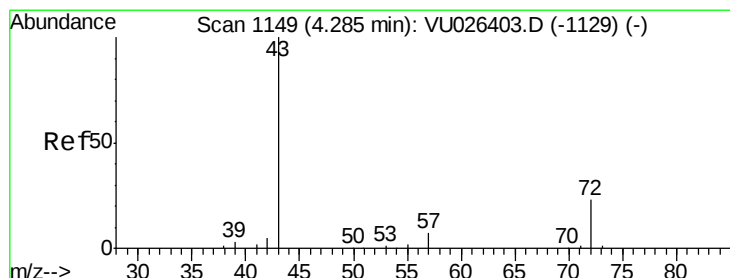
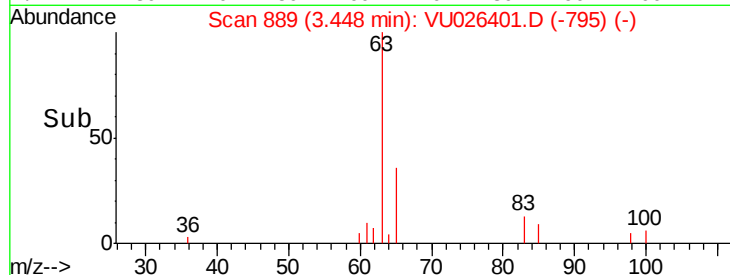
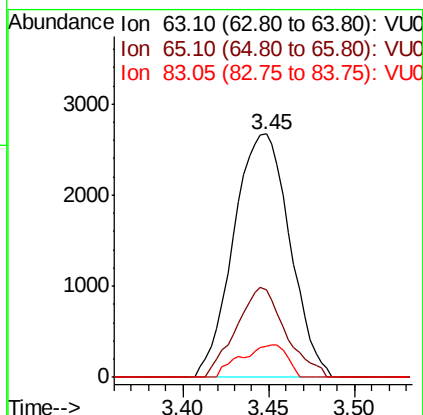
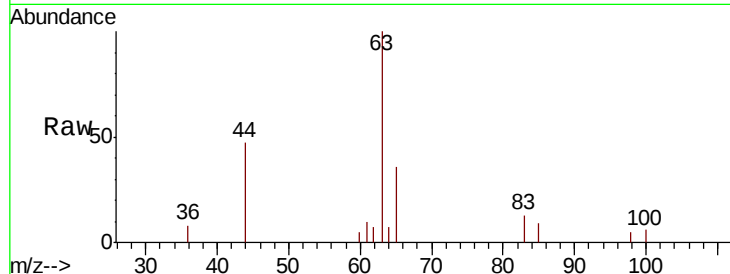




#19
 1,1-Dichloroethane
 Concen: 0.521 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

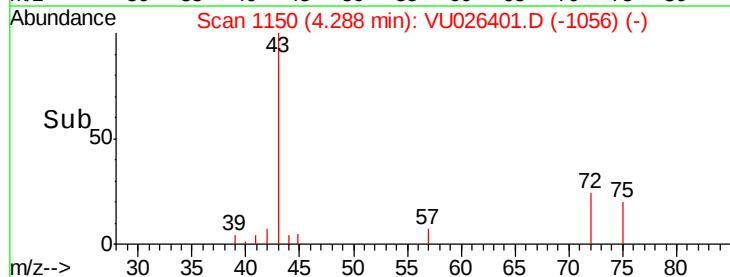
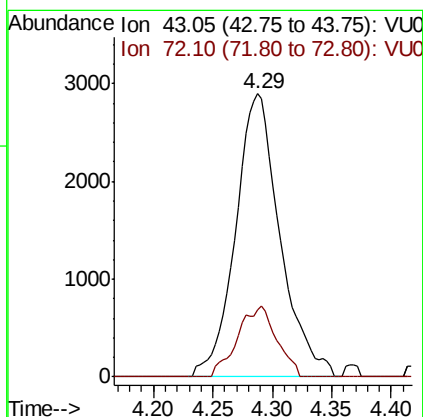
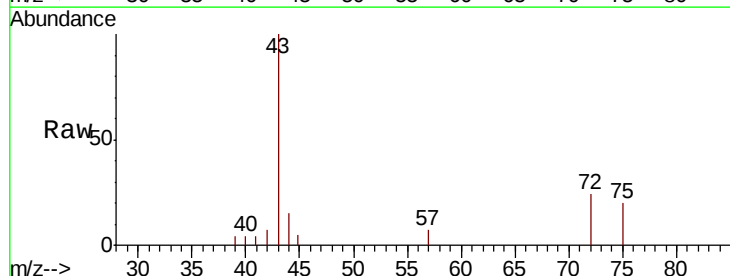
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.542

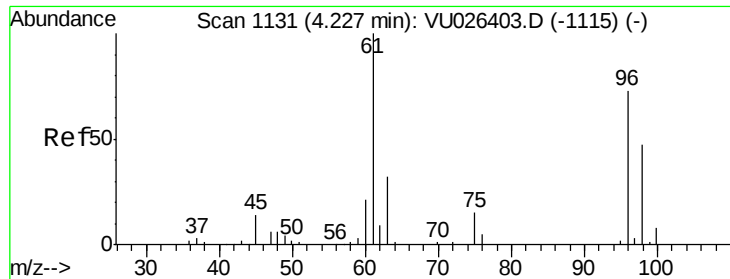
Tgt Ion: 63 Resp: 6073
 Ion Ratio Lower Upper
 63 100
 65 35.7 22.2 41.2
 83 12.5 9.2 17.2



#21
 2-Butanone
 Concen: 5.122 ug/L
 RT: 4.29 min Scan# 1150
 Delta R.T. 0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

Tgt Ion: 43 Resp: 7501
 Ion Ratio Lower Upper
 43 100
 72 21.9 11.4 34.1





#22

cis-1,2-Dichloroethene

Concen: 0.558 ug/L

RT: 4.23 min Scan# 1131

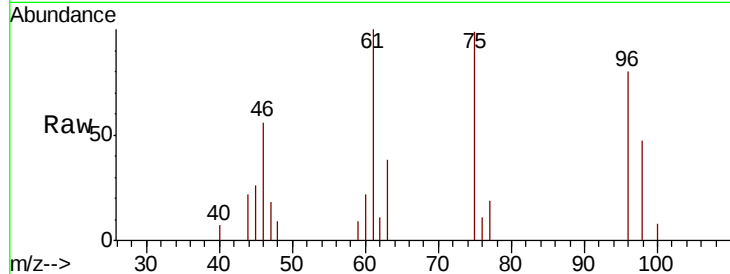
Delta R.T. -0.00 min

Lab File: VU026401.D

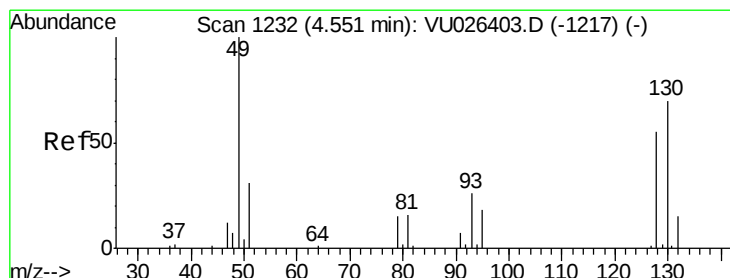
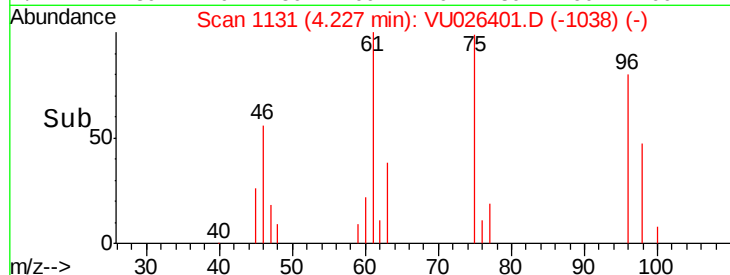
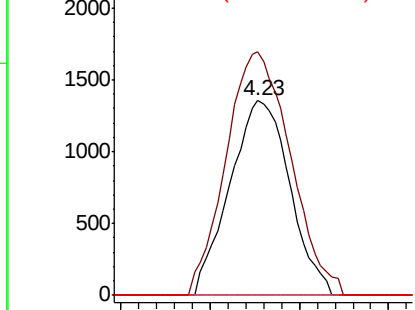
Acq: 28 Aug 2018 16:02

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.542

Tgt Ion:	96	Resp:	3173
Ion	Ratio	Lower	Upper
96	100		
61	125.3	95.9	178.1
68	0.0	0.0	0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 0.514 ug/L

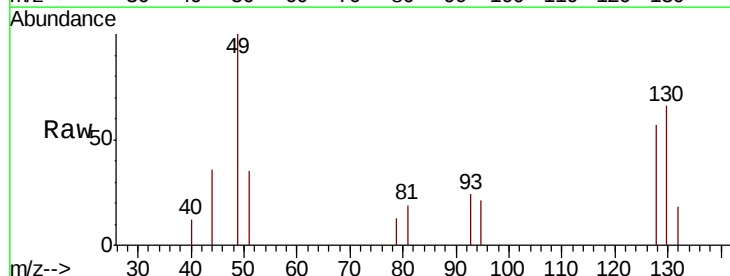
RT: 4.55 min Scan# 1232

Delta R.T. -0.00 min

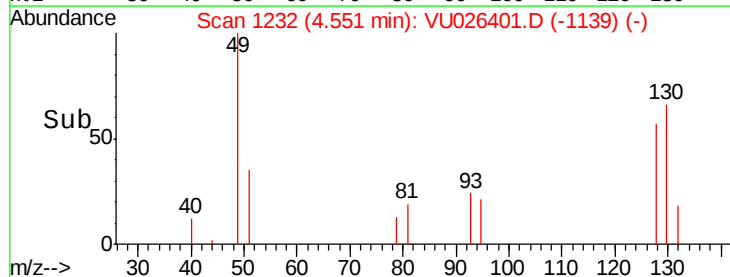
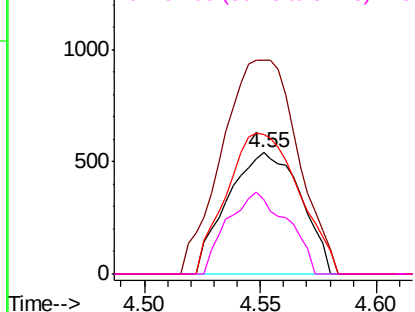
Lab File: VU026401.D

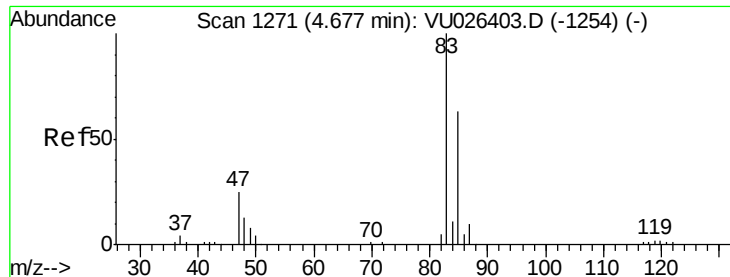
Acq: 28 Aug 2018 16:02

Tgt Ion:	128	Resp:	1183
Ion	Ratio	Lower	Upper
128	100		
49	176.6	126.8	235.4
130	115.8	88.6	164.6
51	61.4	45.2	67.8



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0





#25

Chloroform

Concen: 0.563 ug/L

RT: 4.67 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

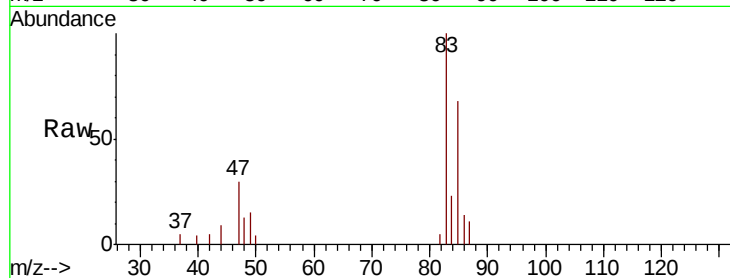
VSTD0.542

Tgt Ion: 83 Resp: 6303

Ion Ratio Lower Upper

83 100

85 67.8 43.8 81.4



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0

4.67

3000

2500

2000

1500

1000

500

0

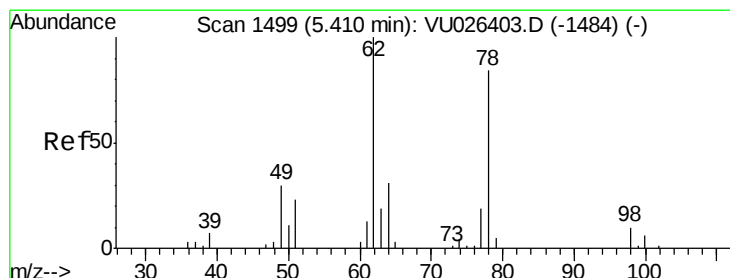
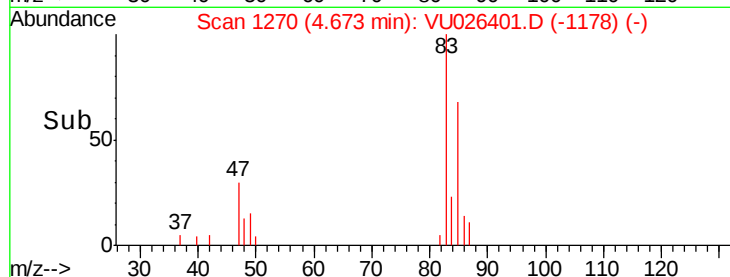
4.60

4.65

4.70

4.75

Time-->



#27

1,2-Dichloroethane

Concen: 0.535 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VU026401.D

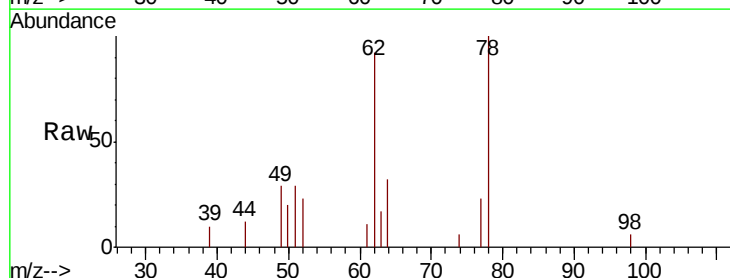
Acq: 28 Aug 2018 16:02

Tgt Ion: 62 Resp: 3334

Ion Ratio Lower Upper

62 100

98 6.7 7.6 11.4#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0

5.41

1500

1000

500

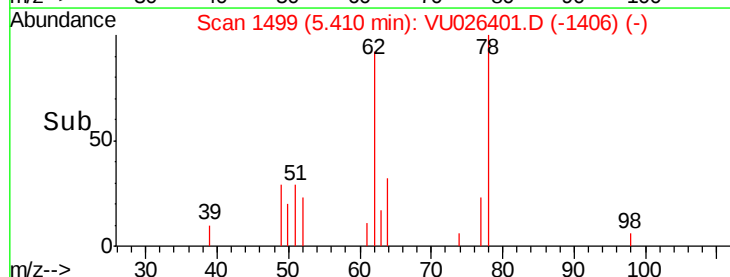
0

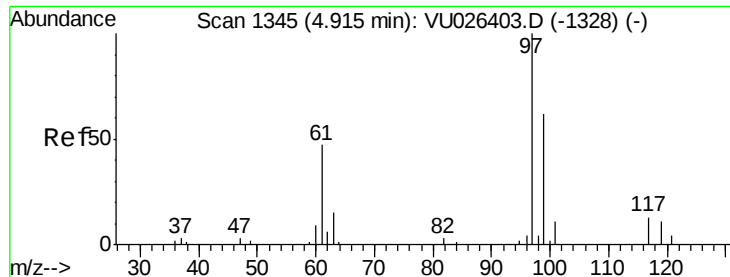
5.35

5.40

5.45

Time-->

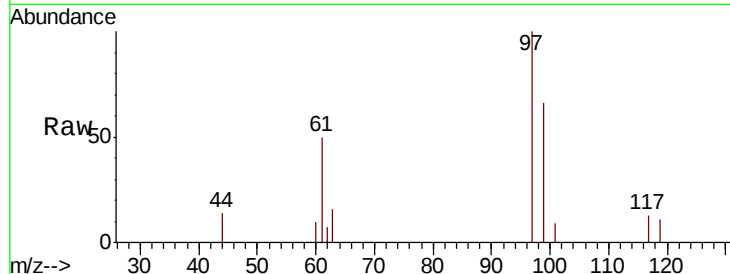




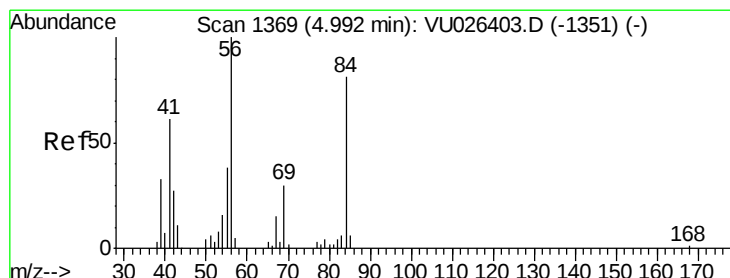
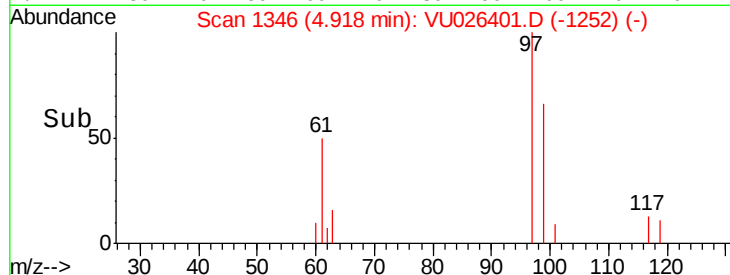
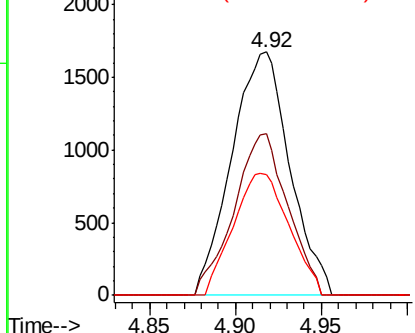
#29
 1,1,1-Trichloroethane
 Concen: 0.513 ug/L
 RT: 4.92 min Scan# 1346
 Delta R.T. 0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.542

Tgt Ion: 97 Resp: 3930
 Ion Ratio Lower Upper
 97 100
 99 61.3 51.8 77.8
 61 47.9 40.1 60.1

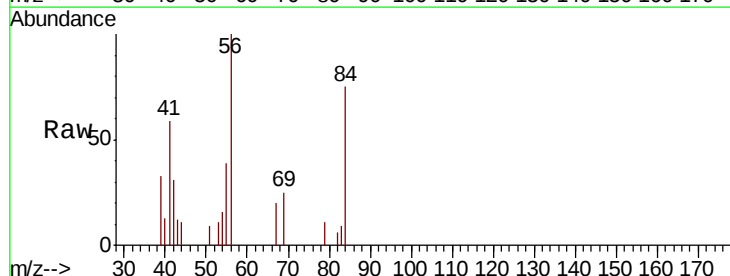


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

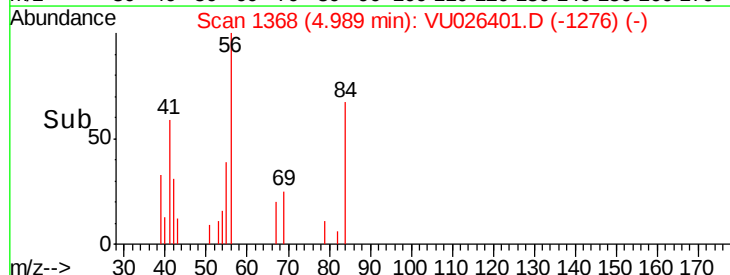
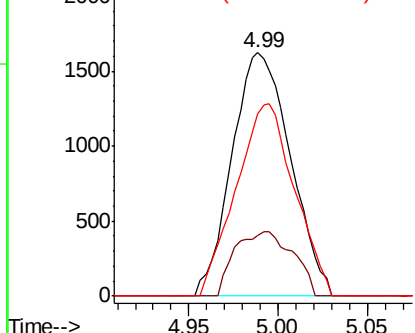


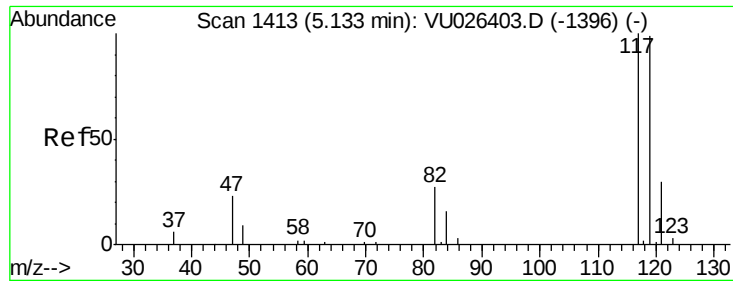
#30
 Cyclohexane
 Concen: 0.473 ug/L
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

Tgt Ion: 56 Resp: 3702
 Ion Ratio Lower Upper
 56 100
 69 26.3 23.1 34.7
 84 79.0 64.8 97.2



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 0.523 ug/L

RT: 5.13 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

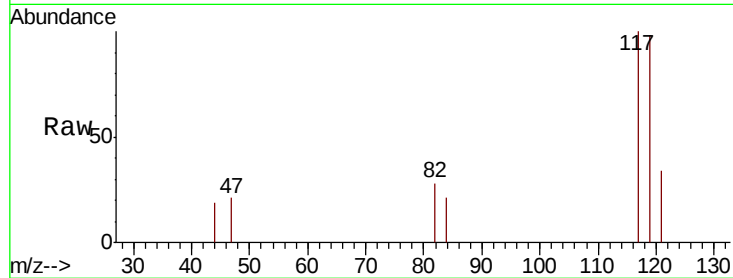
VSTD0.542

Tgt Ion:117 Resp: 3610

Ion Ratio Lower Upper

117 100

119 97.3 76.7 115.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.13

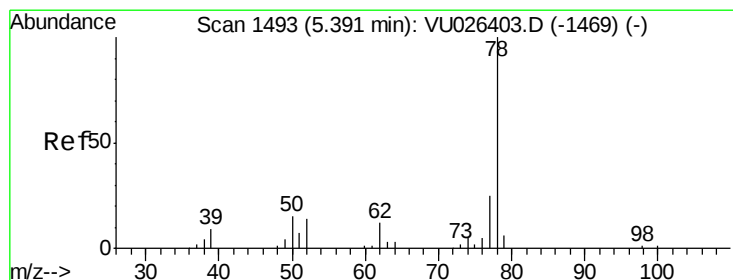
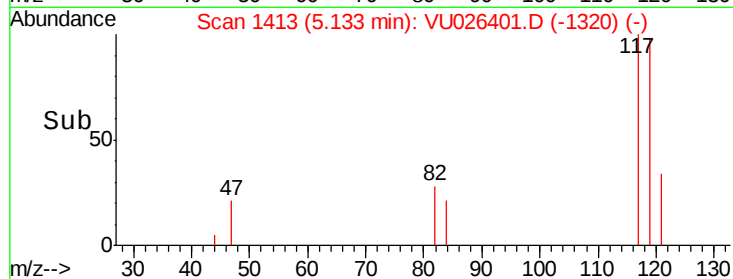
1500

1000

500

0

Time--> 5.05 5.10 5.15 5.20



#33

Benzene

Concen: 0.498 ug/L

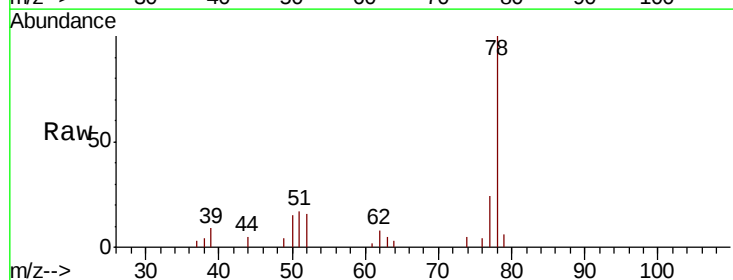
RT: 5.39 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Tgt Ion: 78 Resp: 10072



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.39

5000

4000

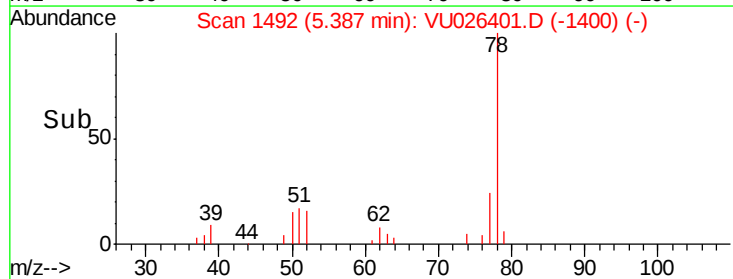
3000

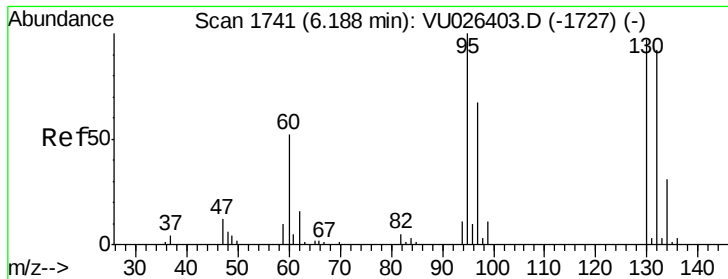
2000

1000

0

Time--> 5.30 5.35 5.40 5.45





#34

Trichloroethene

Concen: 0.592 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.542

Tgt Ion: 95 Resp: 3234

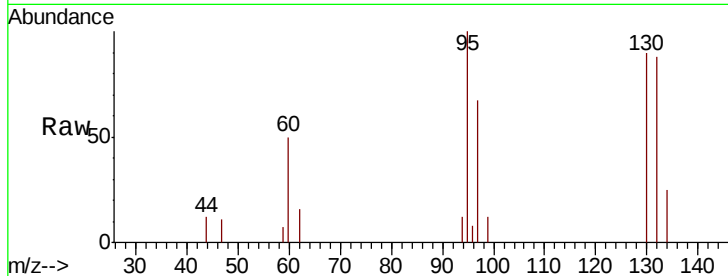
Ion Ratio Lower Upper

95 100

97 67.1 46.6 86.6

132 88.5 64.2 119.2

130 89.9 68.2 126.6

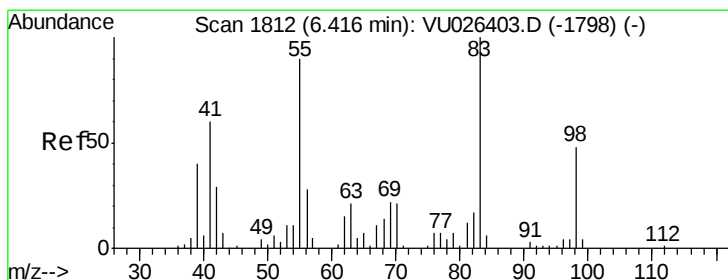
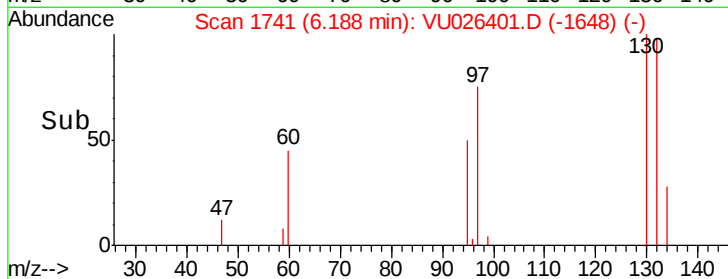
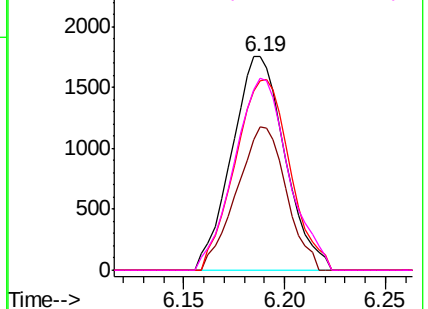


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.438 ug/L

RT: 6.42 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

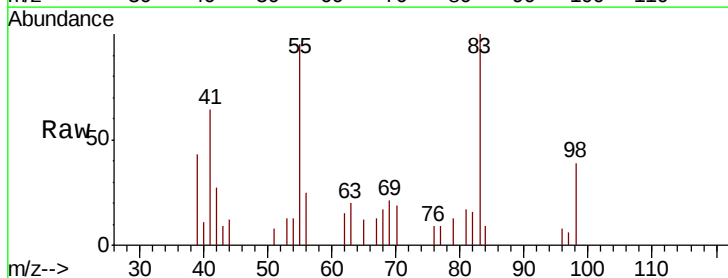
Tgt Ion: 83 Resp: 3402

Ion Ratio Lower Upper

83 100

55 96.6 68.1 102.1

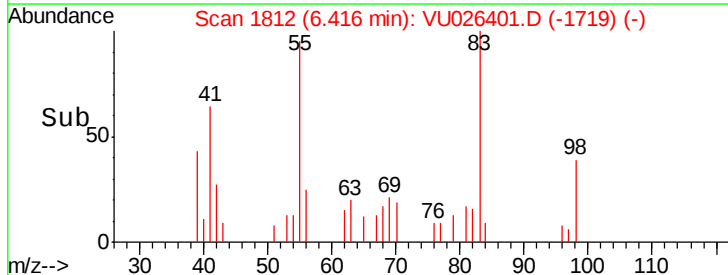
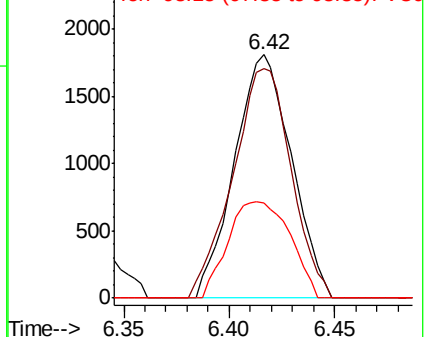
98 42.9 36.0 54.0

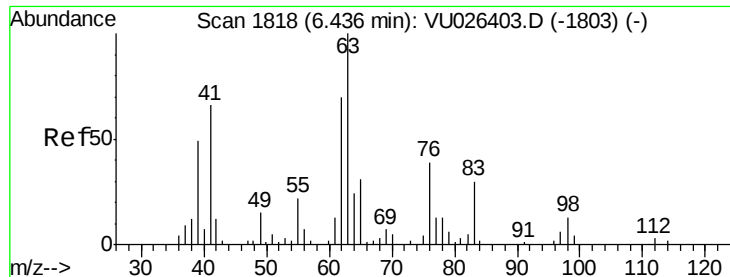


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

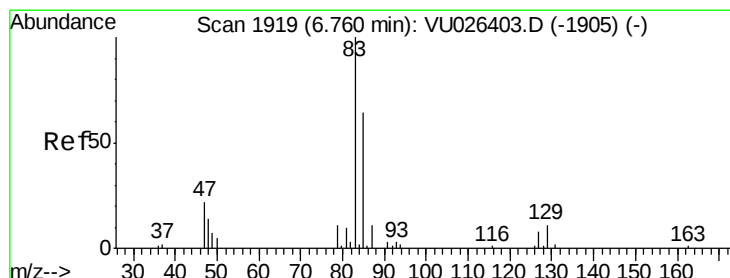
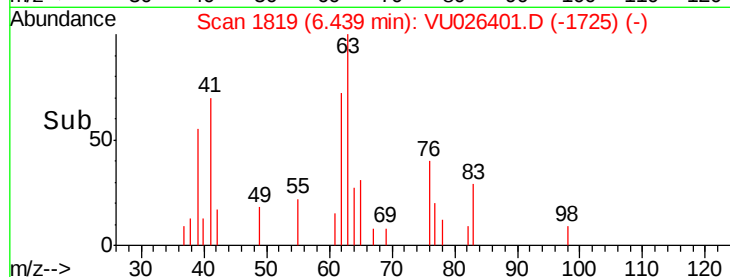
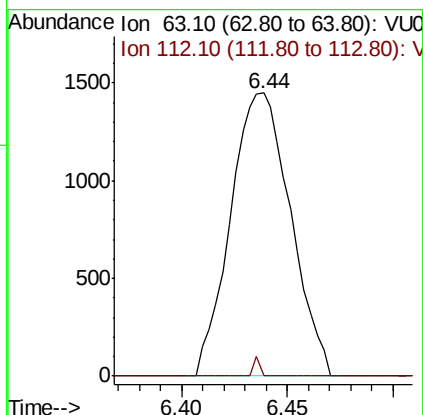
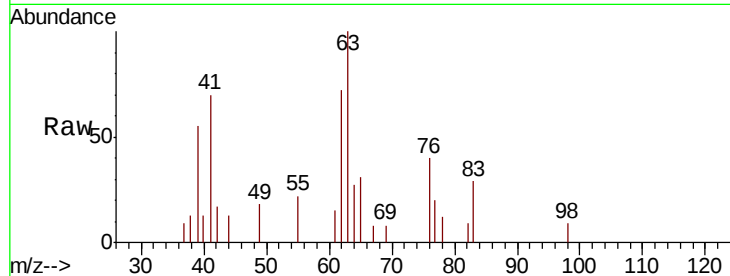




#37
 1,2-Dichloropropane
 Concen: 0.509 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

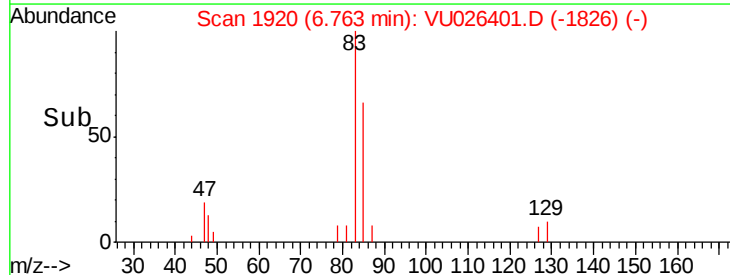
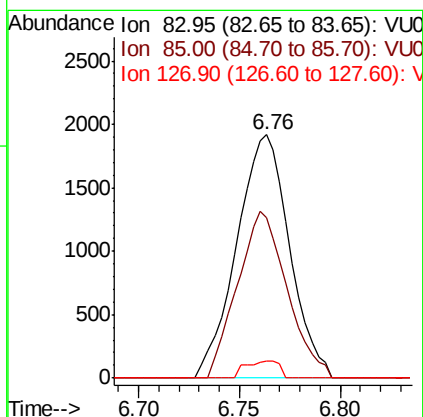
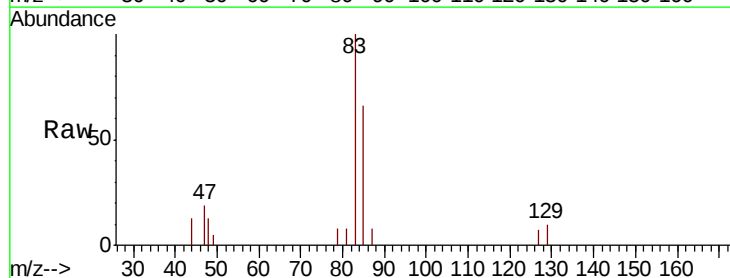
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.542

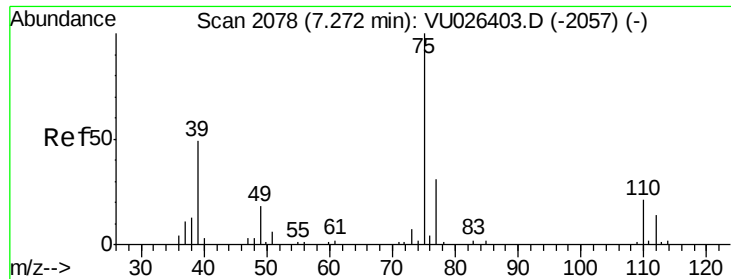
Tgt Ion: 63 Resp: 2858
 Ion Ratio Lower Upper
 63 100
 112 0.7 2.9 4.3#



#38
 Bromodichloromethane
 Concen: 0.532 ug/L
 RT: 6.76 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

Tgt Ion: 83 Resp: 3507
 Ion Ratio Lower Upper
 83 100
 85 66.0 44.7 83.1
 127 6.9 6.6 10.0

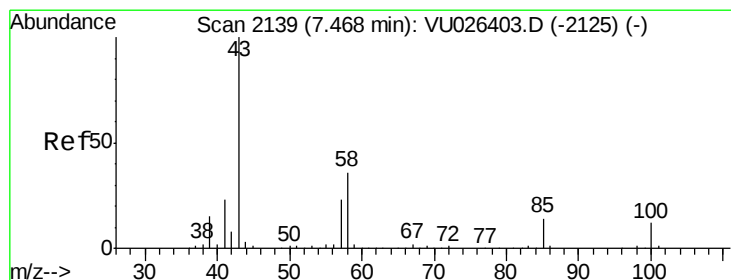
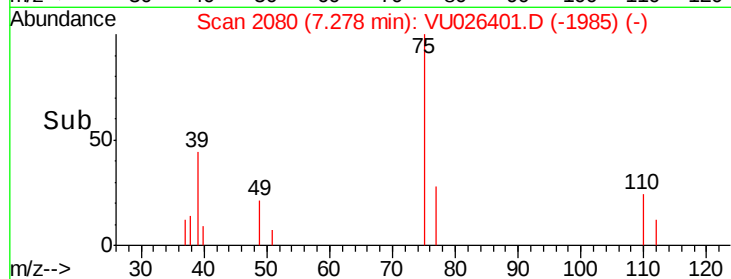
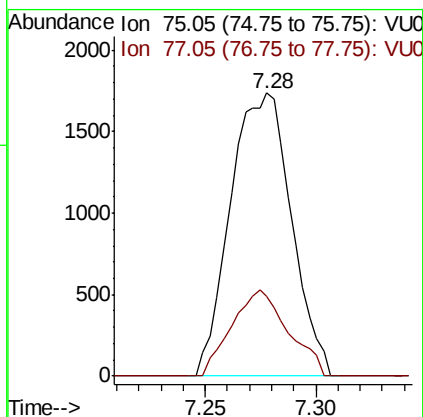
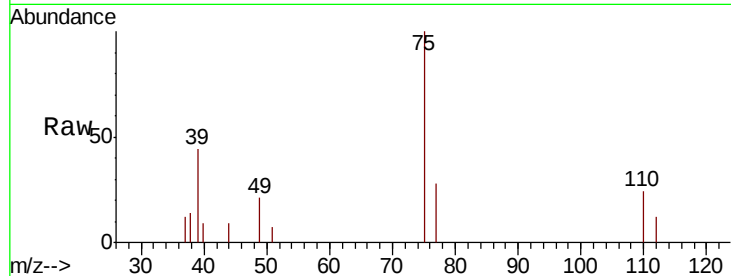




#39
 cis-1,3-Dichloropropene
 Concen: 0.465 ug/L
 RT: 7.28 min Scan# 2080
 Delta R.T. 0.01 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

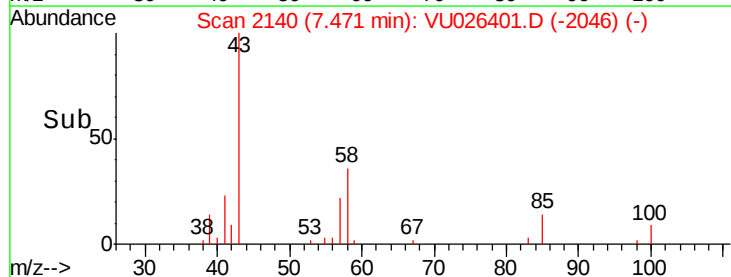
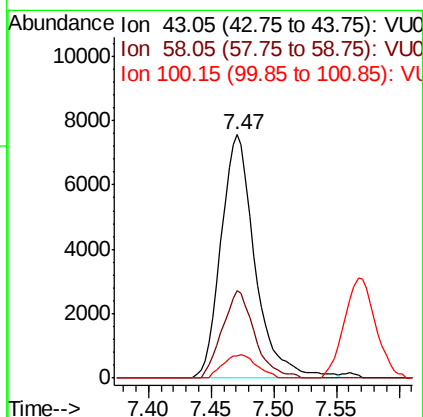
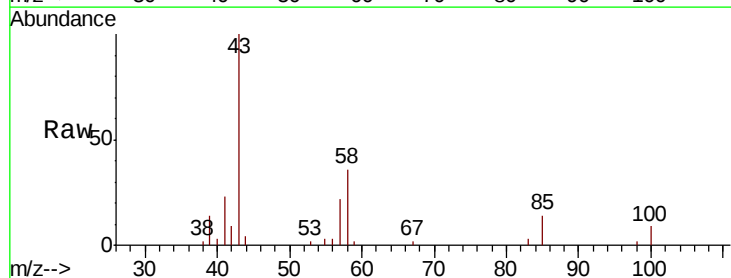
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.542

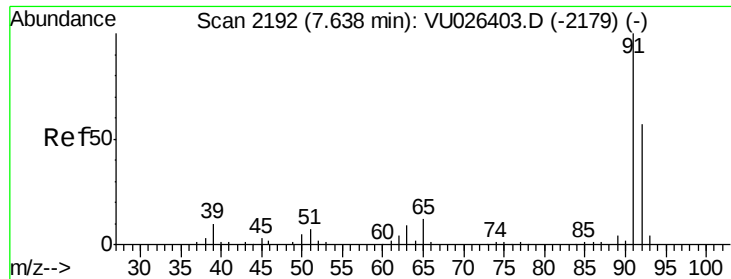
Tgt Ion: 75 Resp: 3317
 Ion Ratio Lower Upper
 75 100
 77 28.3 21.3 39.6



#40
 4-Methyl-2-pentanone
 Concen: 4.495 ug/L
 RT: 7.47 min Scan# 2140
 Delta R.T. 0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

Tgt Ion: 43 Resp: 14201
 Ion Ratio Lower Upper
 43 100
 58 34.3 29.3 43.9
 100 9.4 9.8 14.8#





#42

Toluene

Concen: 0.464 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

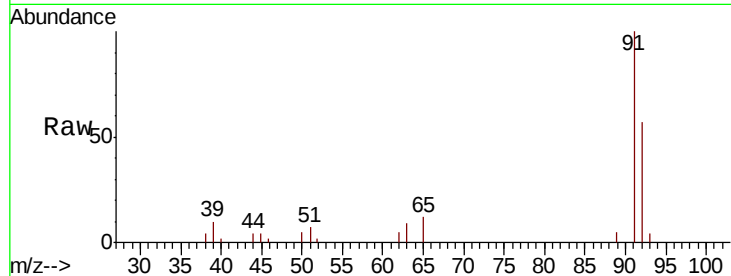
VSTD0.542

Tgt Ion: 91 Resp: 9570

Ion Ratio Lower Upper

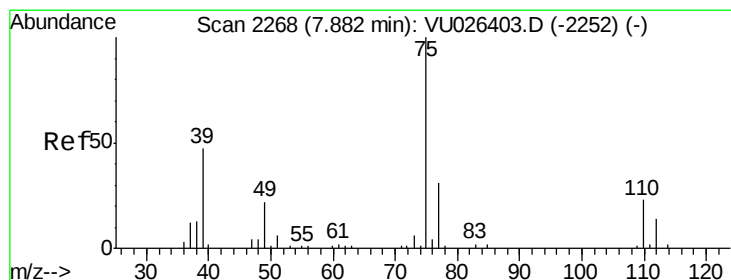
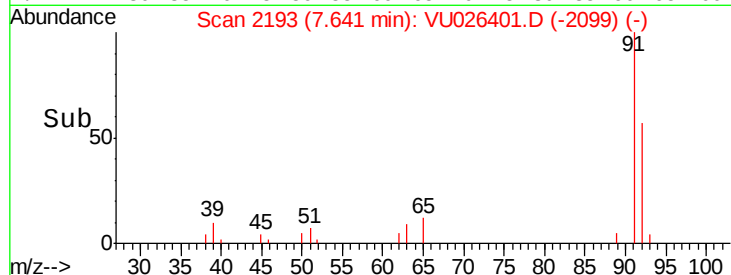
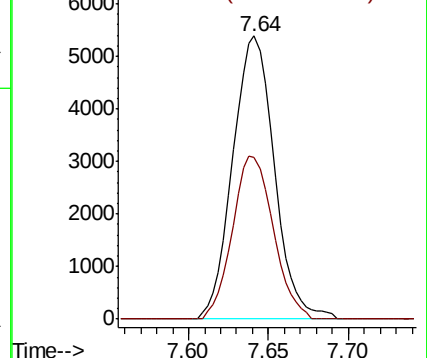
91 100

92 57.1 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.463 ug/L

RT: 7.89 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VU026401.D

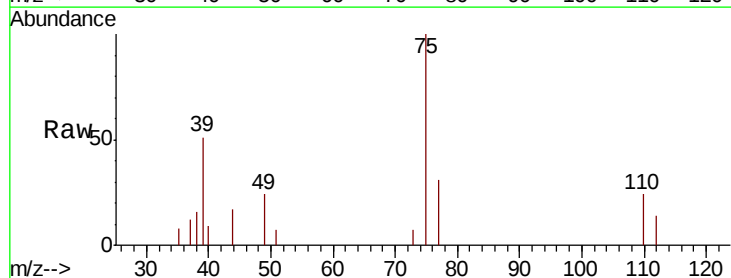
Acq: 28 Aug 2018 16:02

Tgt Ion: 75 Resp: 2719

Ion Ratio Lower Upper

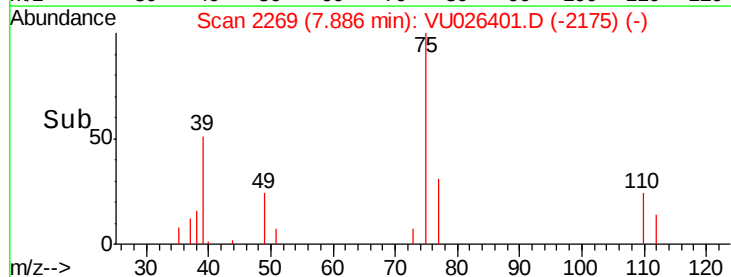
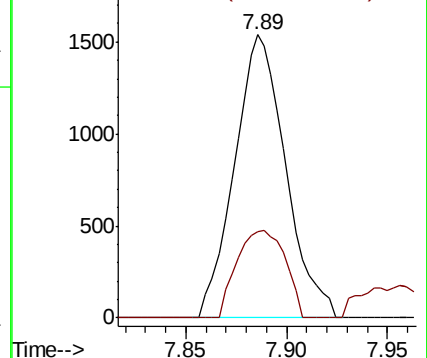
75 100

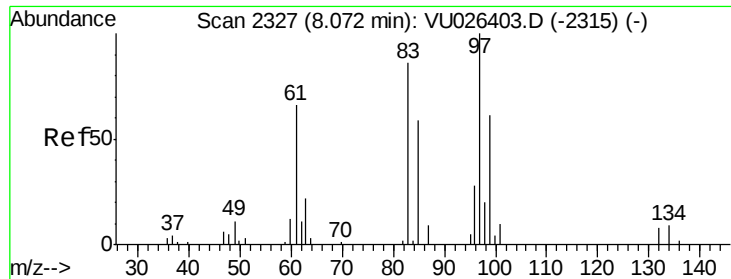
77 30.7 21.7 40.3



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

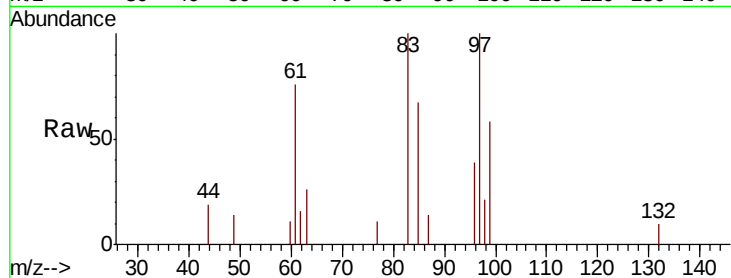




#45
 1,1,2-Trichloroethane
 Concen: 0.499 ug/L
 RT: 8.07 min Scan# 2327
 Delta R.T. -0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.542

Tgt Ion:	97	Resp:	1758
Ion	Ratio	Lower	Upper
97	100		
99	58.1	42.4	78.8
83	100.2	60.5	112.5
85	66.7	40.9	76.0



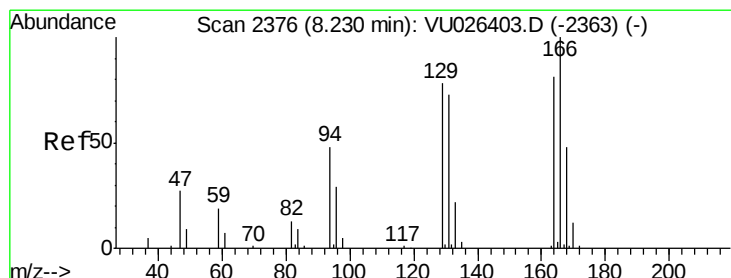
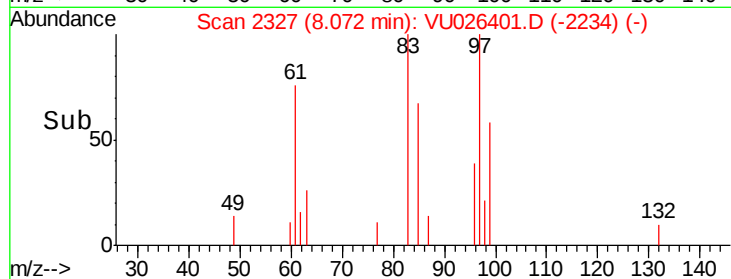
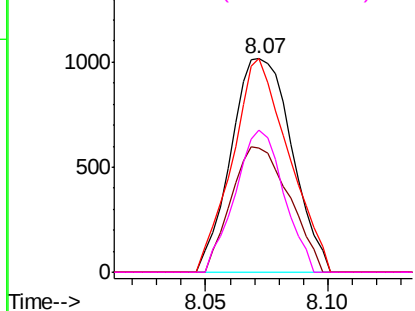
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

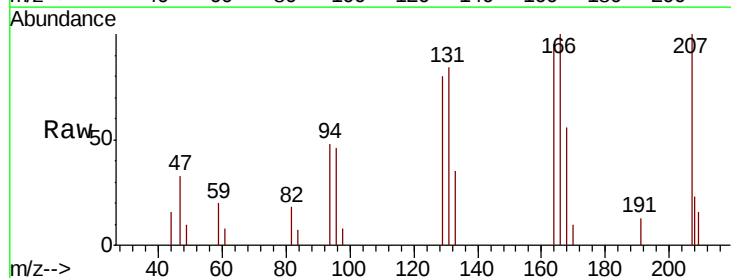
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 0.519 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. -0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

Tgt Ion:	164	Resp:	2135
Ion	Ratio	Lower	Upper
164	100		
129	84.2	67.8	126.0
131	88.2	63.1	117.3
166	104.3	86.5	160.7



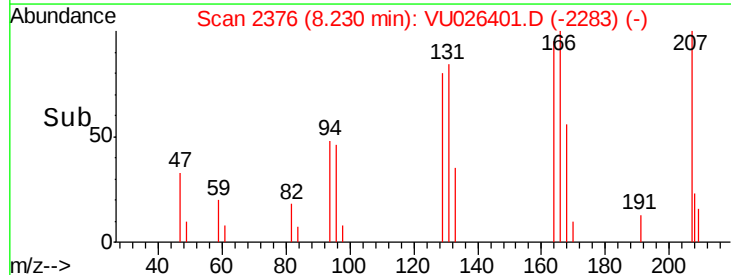
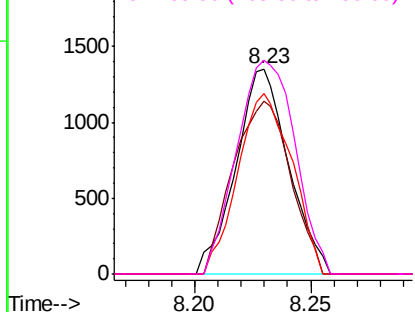
Abundance

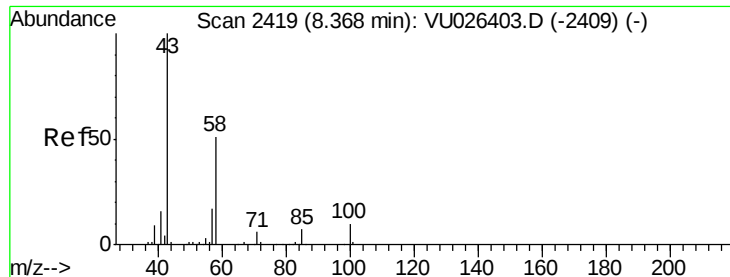
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

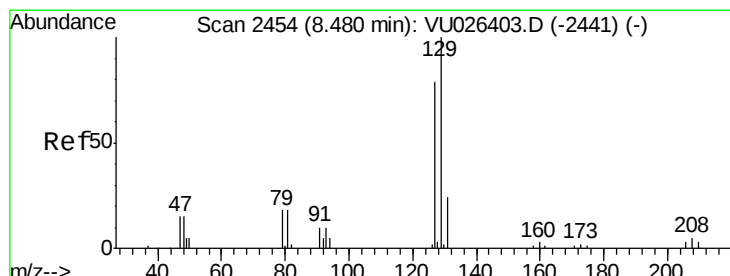
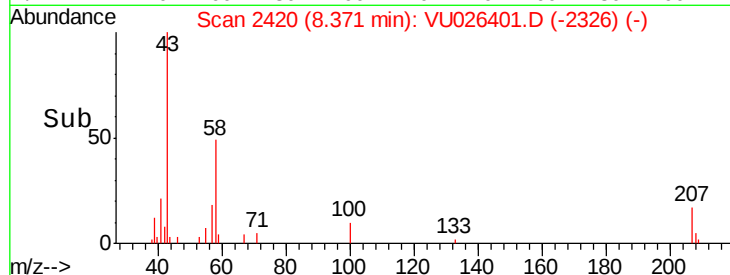
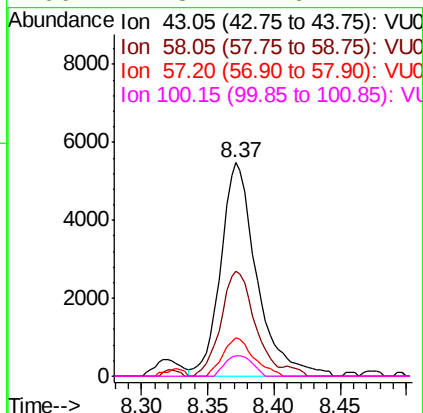
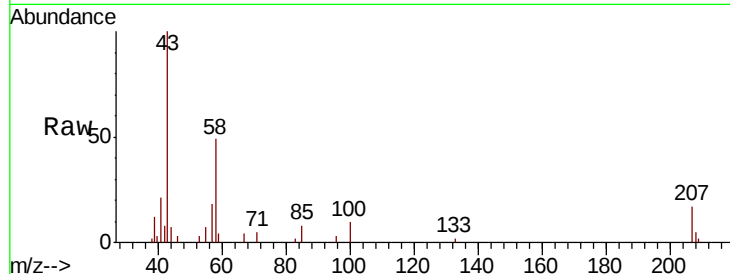




#48
2-Hexanone
Concen: 4.432 ug/L
RT: 8.37 min Scan# 2420
Delta R.T. 0.00 min
Lab File: VU026401.D
Acq: 28 Aug 2018 16:02

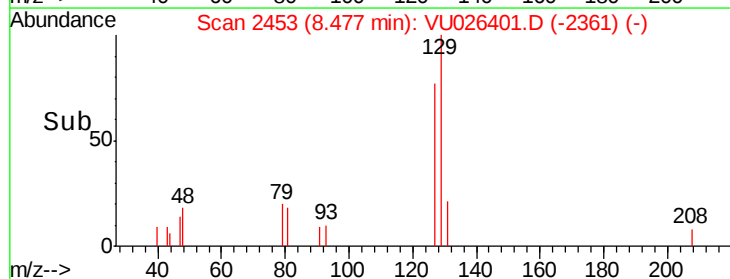
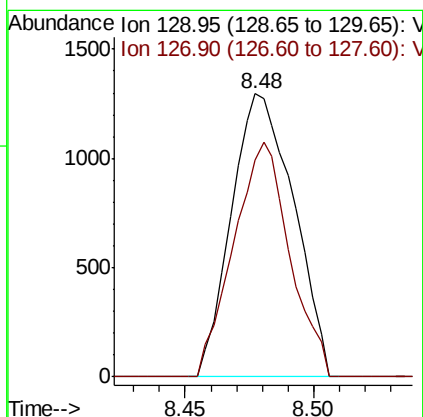
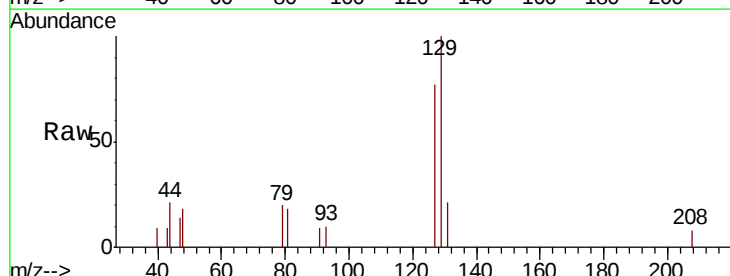
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.542

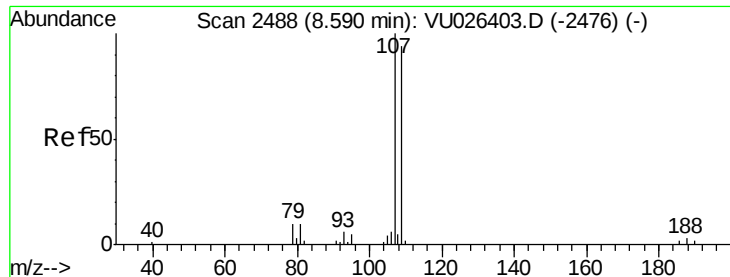
Tgt Ion: 43 Resp: 10369
Ion Ratio Lower Upper
43 100
58 46.1 40.5 60.7
57 15.3 14.0 21.0
100 7.3 7.6 11.4#



#49
Dibromochloromethane
Concen: 0.508 ug/L
RT: 8.48 min Scan# 2453
Delta R.T. -0.00 min
Lab File: VU026401.D
Acq: 28 Aug 2018 16:02

Tgt Ion: 129 Resp: 2181
Ion Ratio Lower Upper
129 100
127 76.5 55.6 103.2

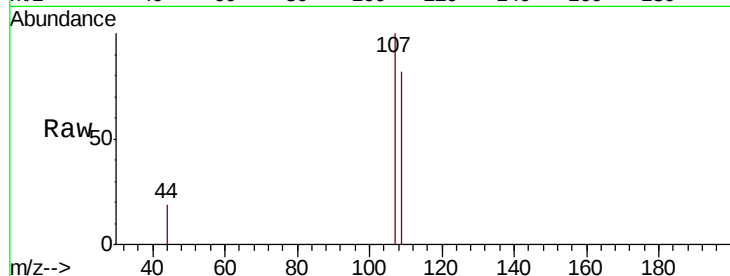




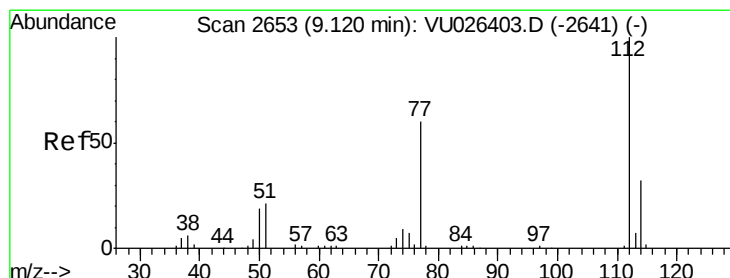
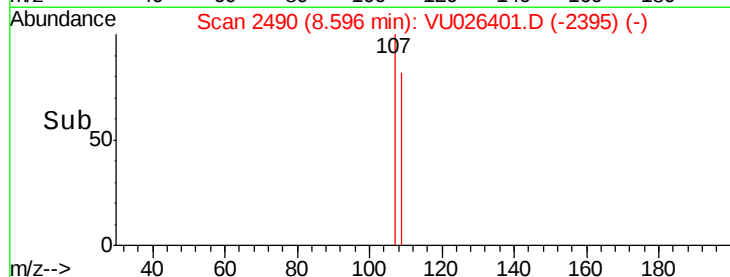
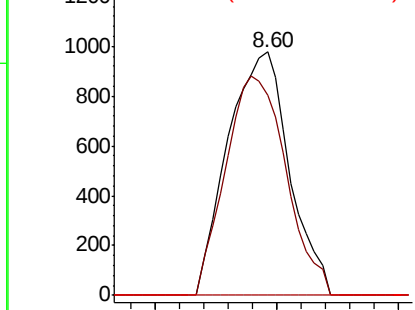
#50
 1,2-Dibromoethane
 Concen: 0.514 ug/L
 RT: 8.60 min Scan# 2490
 Delta R.T. 0.01 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.542

Tgt Ion:107 Resp: 1710
 Ion Ratio Lower Upper
 107 100
 109 82.1 65.7 121.9
 188 0.0 2.7 4.1#

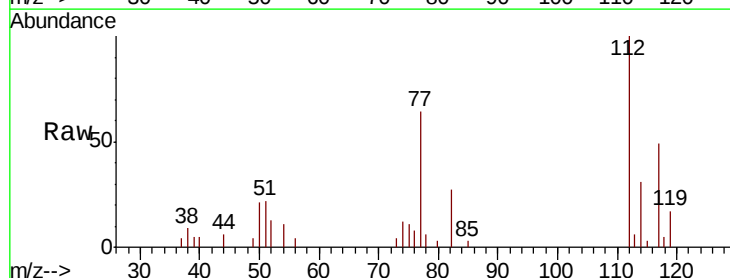


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

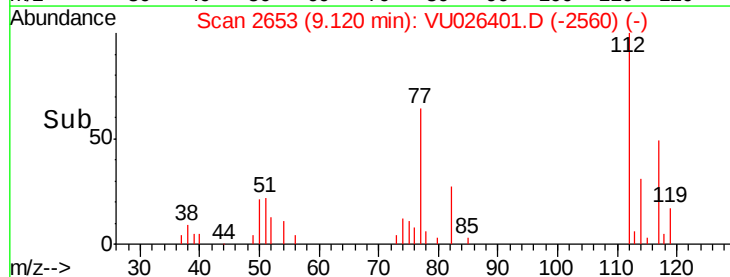
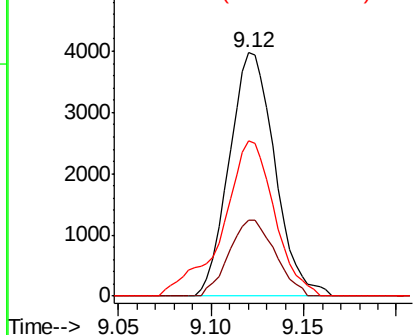


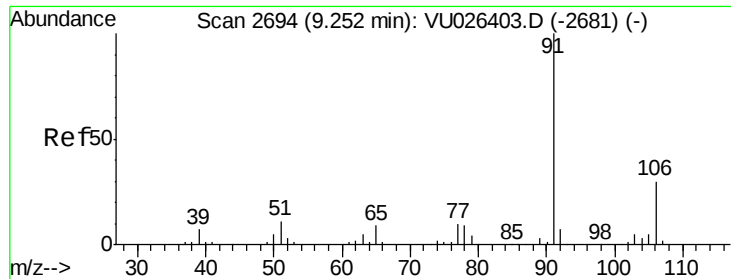
#51
 Chlorobenzene
 Concen: 0.508 ug/L
 RT: 9.12 min Scan# 2653
 Delta R.T. -0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

Tgt Ion:112 Resp: 6797
 Ion Ratio Lower Upper
 112 100
 114 31.1 22.3 41.3
 77 64.0 48.4 72.6



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 0.445 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

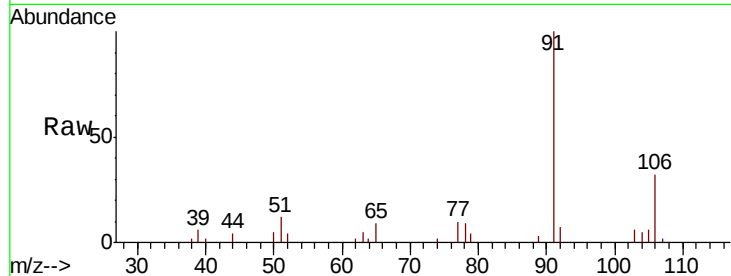
VSTD0.542

Tgt Ion: 91 Resp: 9727

Ion Ratio Lower Upper

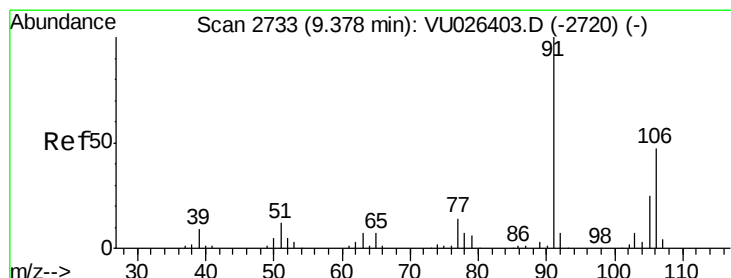
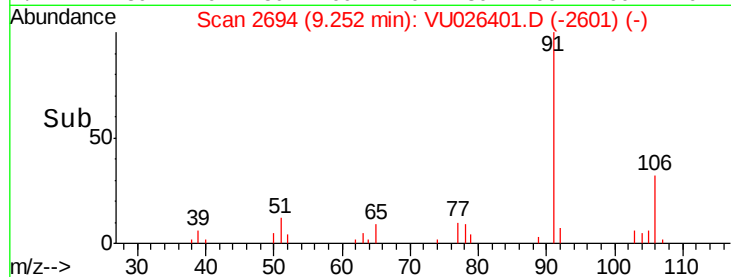
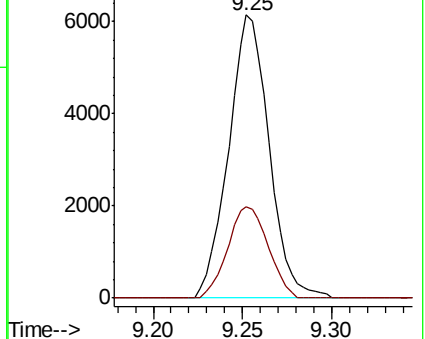
91 100

106 32.4 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VU026401.D (-2601) (-)

Ion 106.15 (105.85 to 106.85): VU026401.D (-2601) (-)



#53

m,p-xylene

Concen: 0.436 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU026401.D

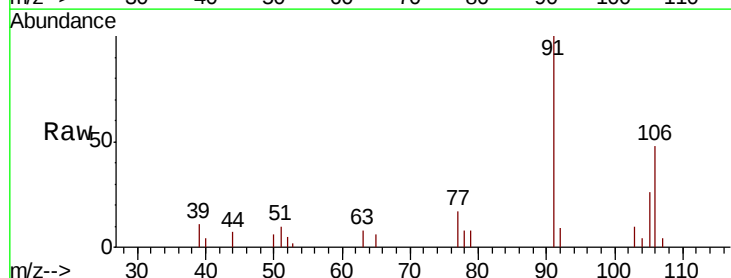
Acq: 28 Aug 2018 16:02

Tgt Ion: 106 Resp: 3504

Ion Ratio Lower Upper

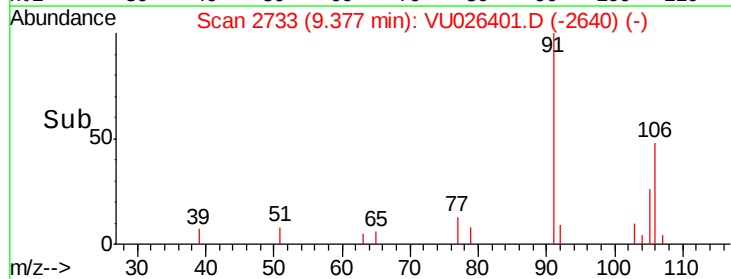
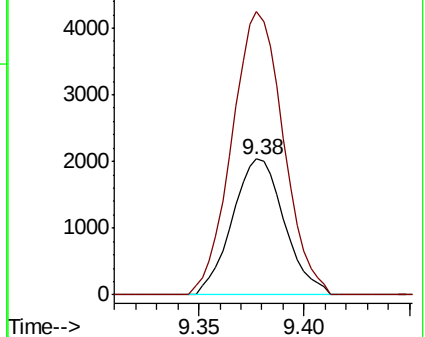
106 100

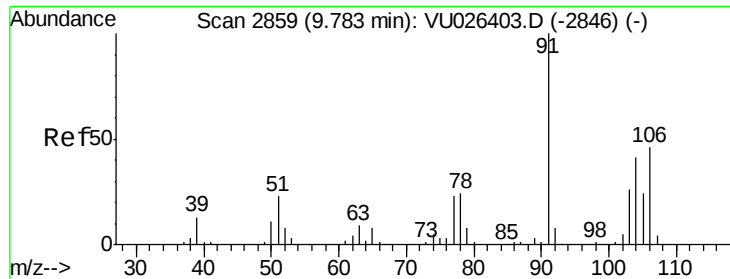
91 208.4 148.4 275.6



Abundance Ion 106.15 (105.85 to 106.85): VU026401.D (-2640) (-)

Ion 91.15 (90.85 to 91.85): VU026401.D (-2640) (-)





#54

o-xylene

Concen: 0.417 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

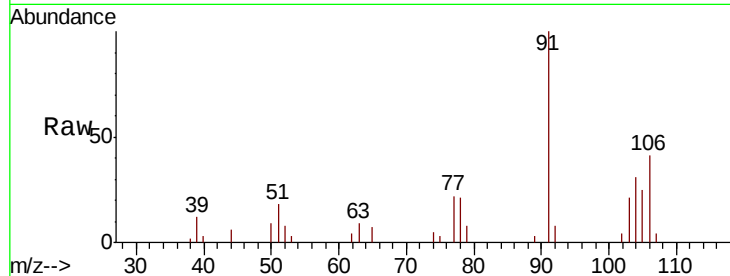
VSTD0.542

Tgt Ion:106 Resp: 3174

Ion Ratio Lower Upper

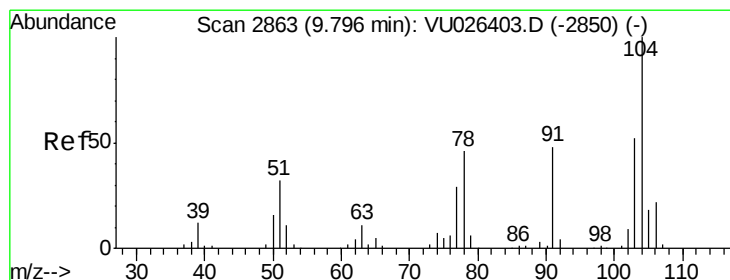
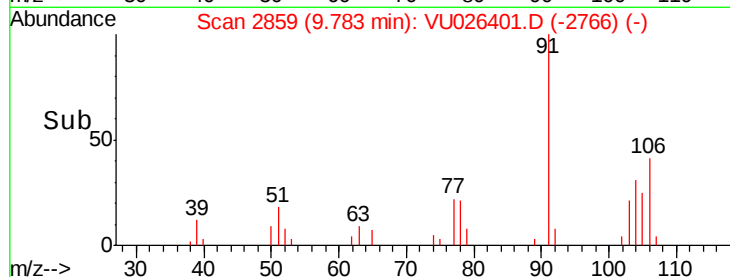
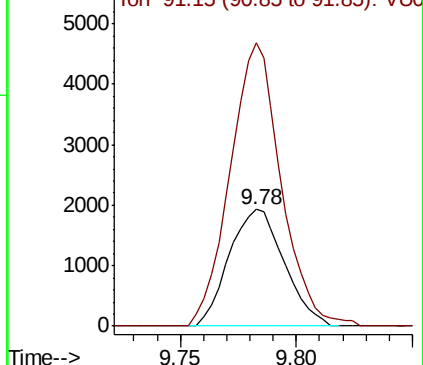
106 100

91 243.1 152.9 283.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.403 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU026401.D

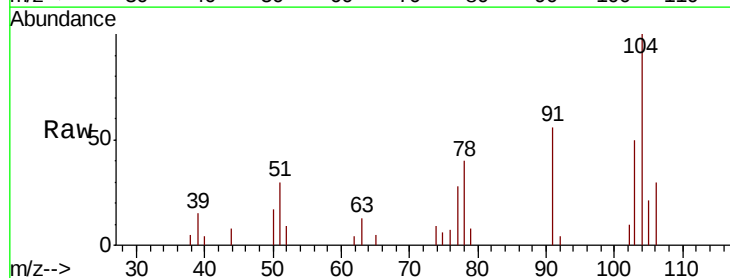
Acq: 28 Aug 2018 16:02

Tgt Ion:104 Resp: 5361

Ion Ratio Lower Upper

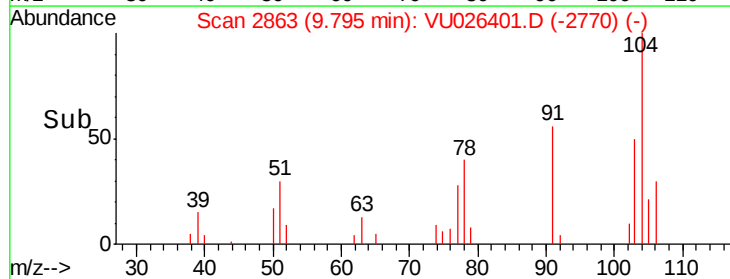
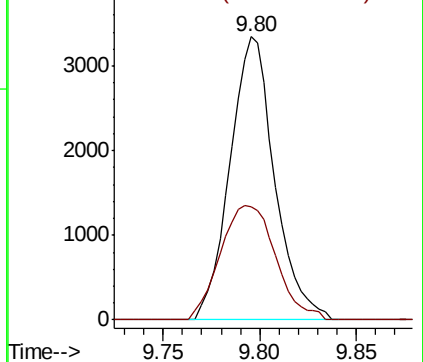
104 100

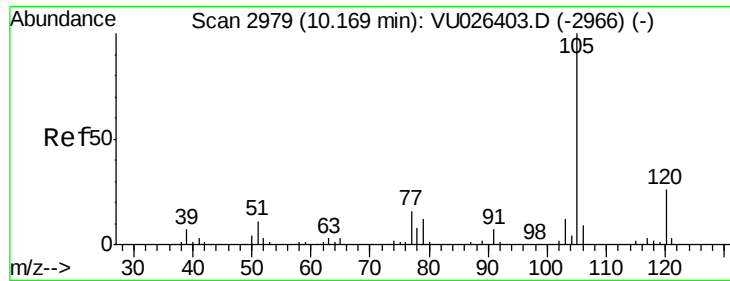
78 39.8 32.4 60.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.406 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.542

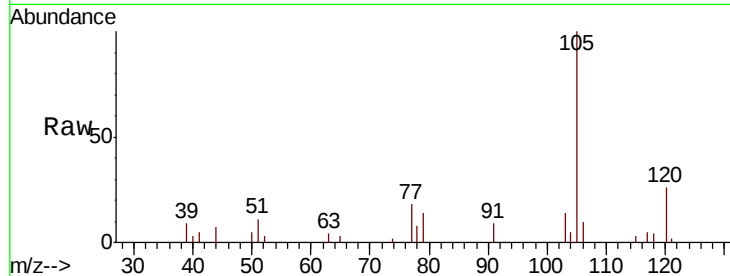
Tgt Ion: 105 Resp: 8218

Ion Ratio Lower Upper

105 100

120 25.2 20.8 31.2

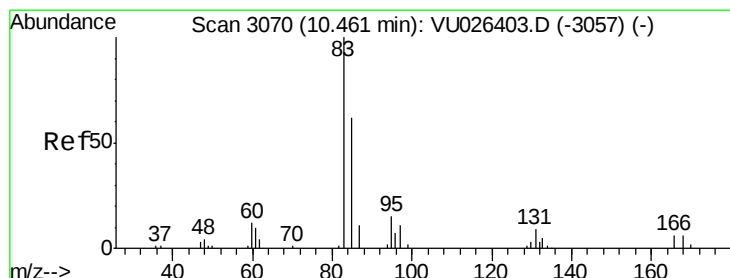
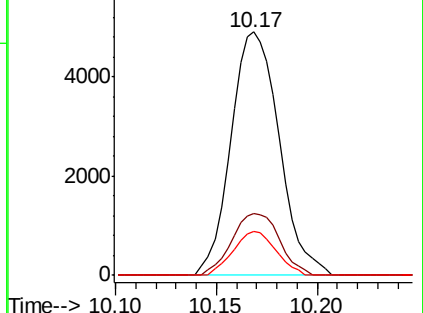
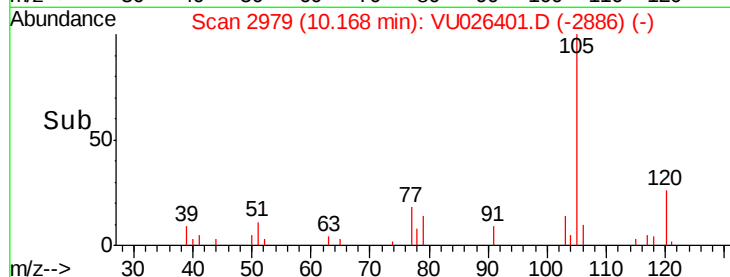
77 16.1 13.4 20.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.498 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

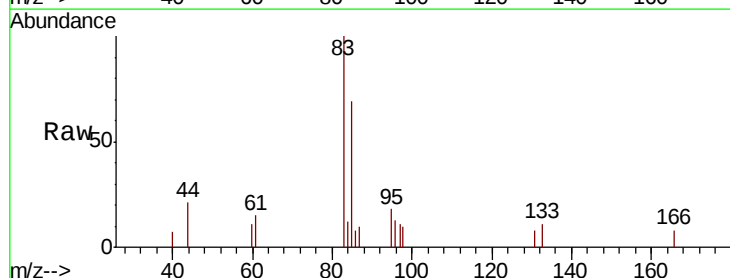
Tgt Ion: 83 Resp: 2297

Ion Ratio Lower Upper

83 100

85 69.4 44.1 81.9

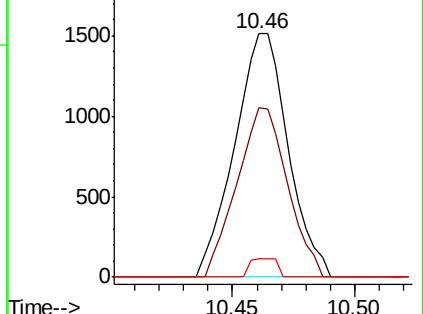
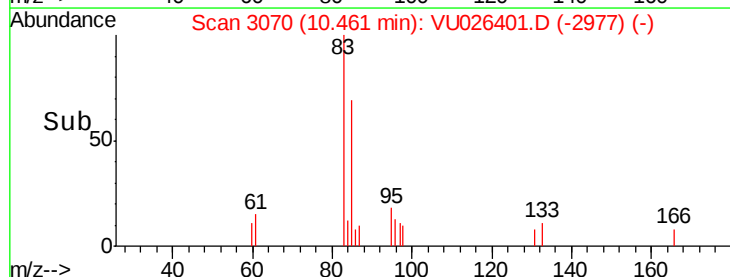
131 7.8 7.3 10.9

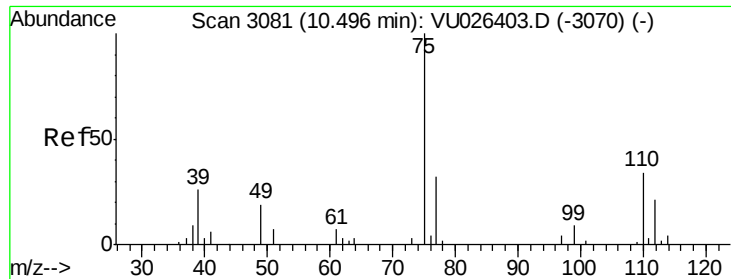


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.540 ug/L

RT: 10.50 min Scan# 3082

Delta R.T. 0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

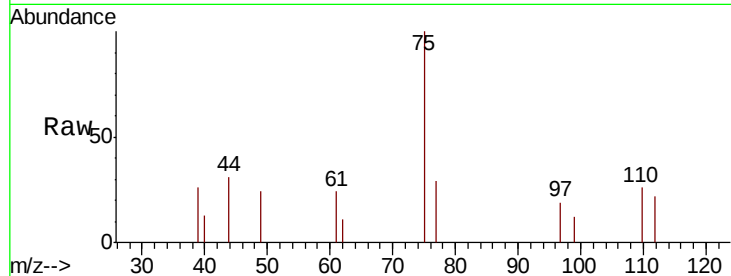
VSTD0.542

Tgt Ion: 75 Resp: 1750

Ion Ratio Lower Upper

75 100

77 27.4 25.0 37.4



Abundance Ion 75.00 (74.70 to 75.70): VU026401.D (-2459) (-)

Ion 77.00 (76.70 to 77.70): VU026401.D (-2459) (-)

10.50

1200

1000

800

600

400

200

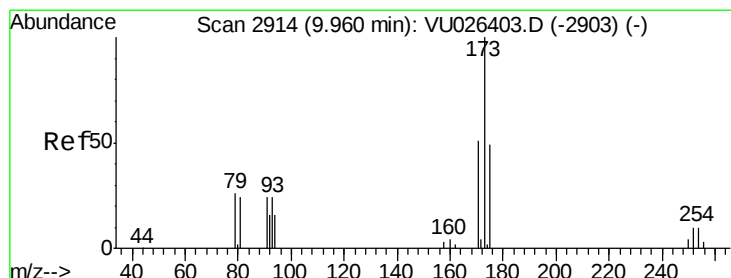
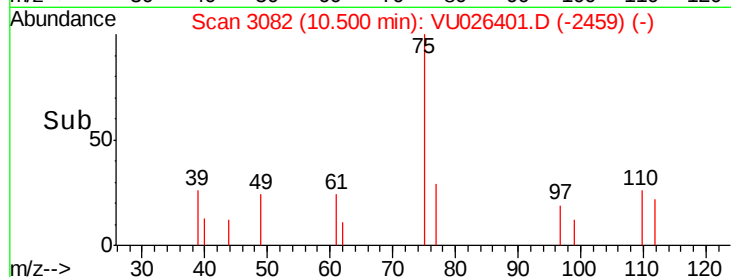
0

10.45

10.50

10.55

Time-->



#61

Bromoform

Concen: 0.497 ug/L

RT: 9.96 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

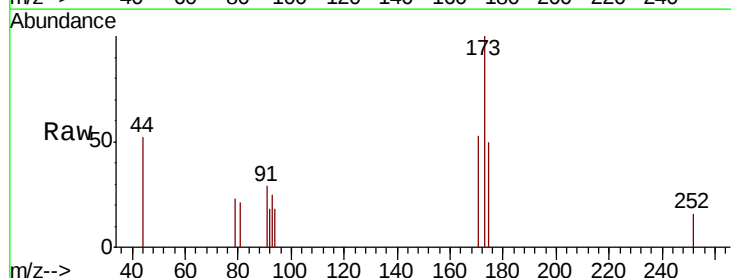
Tgt Ion: 173 Resp: 1110

Ion Ratio Lower Upper

173 100

175 49.5 40.0 60.0

254 0.0 7.9 11.9#



Abundance Ion 172.90 (172.60 to 173.60): VU026401.D (-2821) (-)

Ion 174.90 (174.60 to 175.60): VU026401.D (-2821) (-)

Ion 253.75 (253.45 to 254.45): VU026401.D (-2821) (-)

9.96

800

600

400

200

0

9.95

9.96

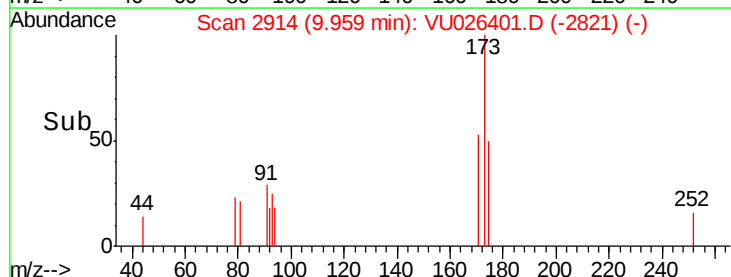
9.97

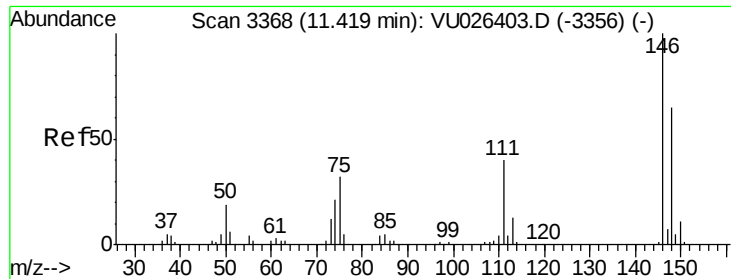
9.98

9.99

10.00

Time-->

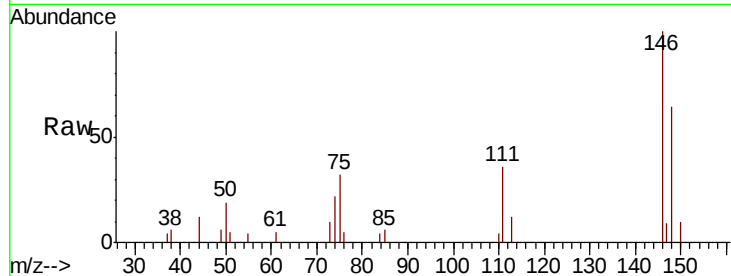




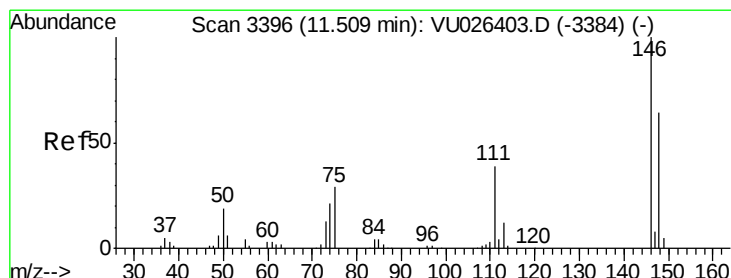
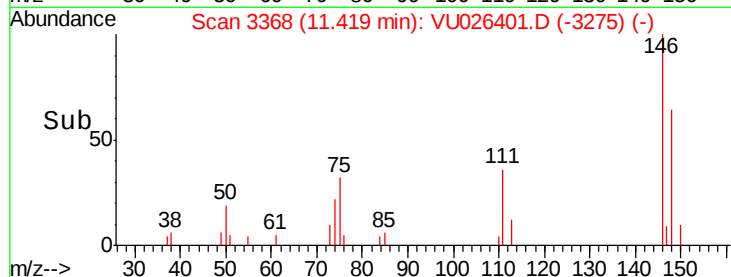
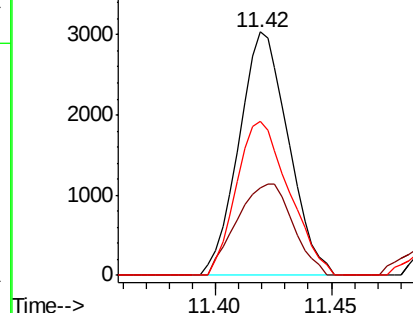
#62
 1,3-Dichlorobenzene
 Concen: 0.497 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.542

Tgt Ion:146 Resp: 4519
 Ion Ratio Lower Upper
 146 100
 111 35.9 28.1 52.1
 148 63.5 45.4 84.4

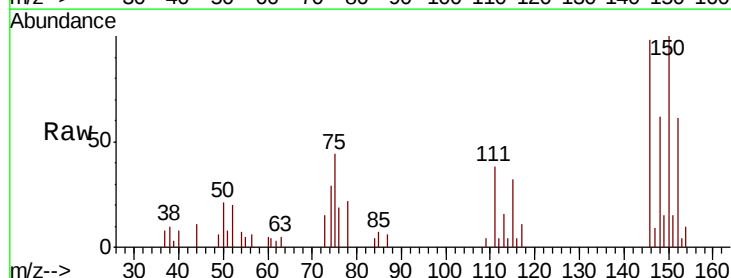


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

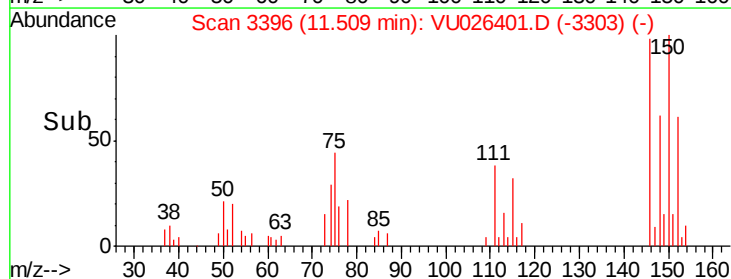
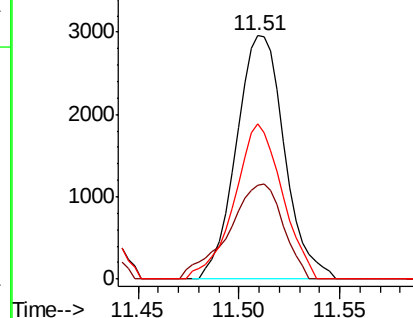


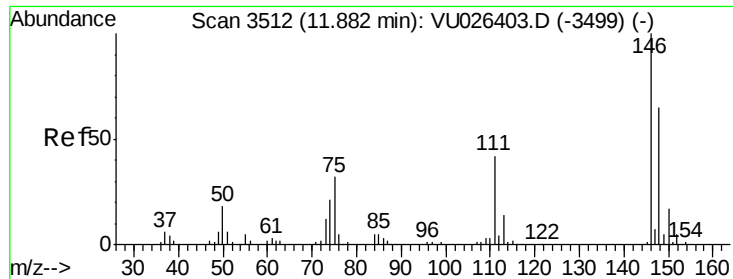
#63
 1,4-Dichlorobenzene
 Concen: 0.518 ug/L
 RT: 11.51 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

Tgt Ion:146 Resp: 4949
 Ion Ratio Lower Upper
 146 100
 111 38.6 27.2 50.4
 148 63.7 44.9 83.5



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.488 ug/L

RT: 11.89 min Scan# 3513

Delta R.T. 0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.542

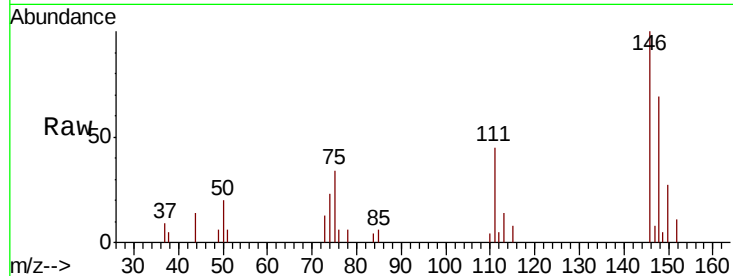
Tgt Ion:146 Resp: 4381

Ion Ratio Lower Upper

146 100

111 45.4 33.7 50.5

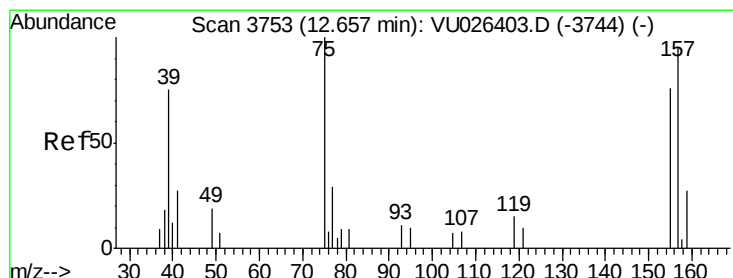
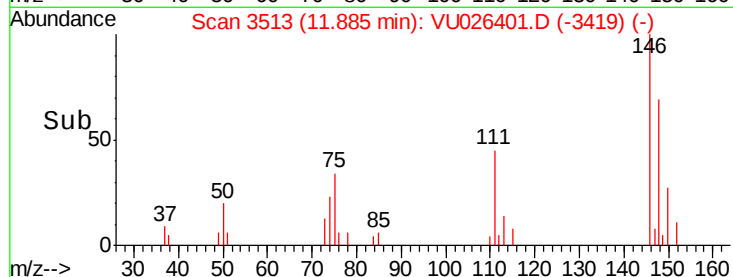
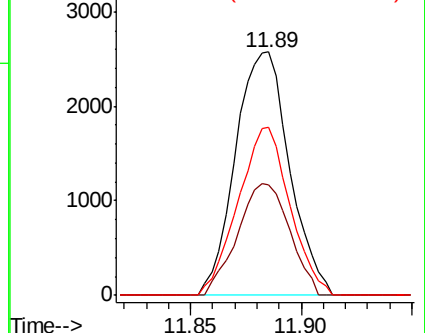
148 69.1 51.9 77.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 0.488 ug/L

RT: 12.66 min Scan# 3753

Delta R.T. -0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

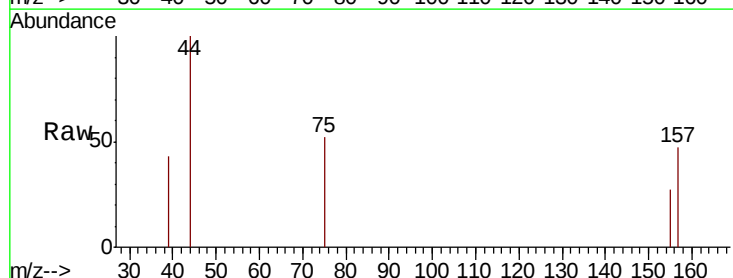
Tgt Ion: 75 Resp: 293

Ion Ratio Lower Upper

75 100

155 52.1 60.8 91.2#

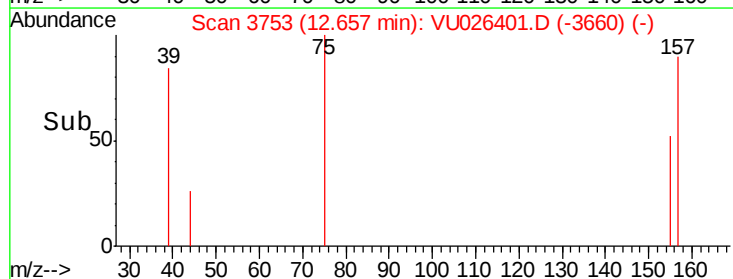
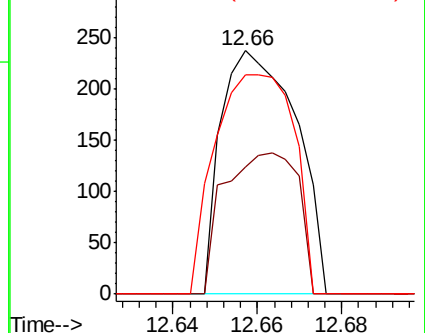
157 89.9 75.9 113.9

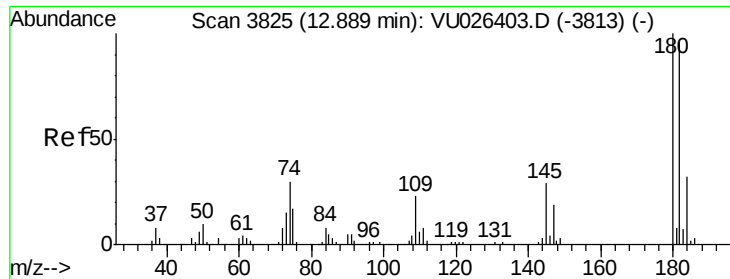


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

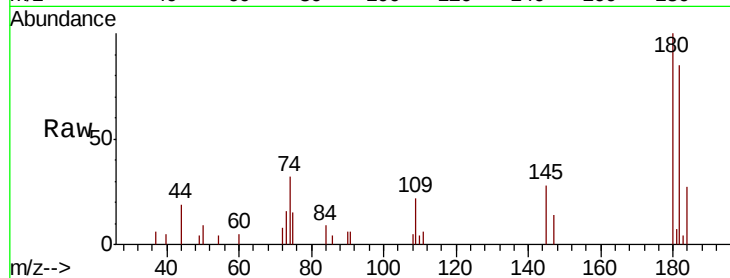




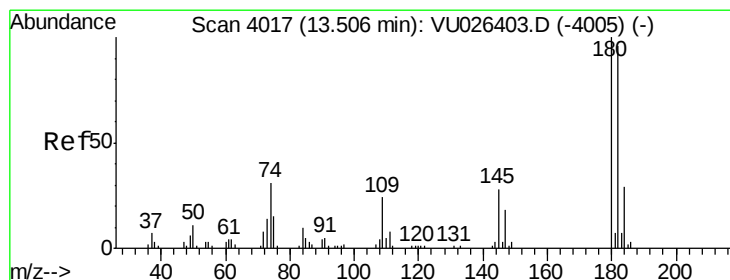
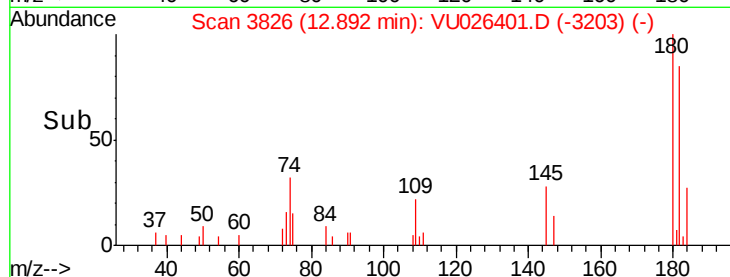
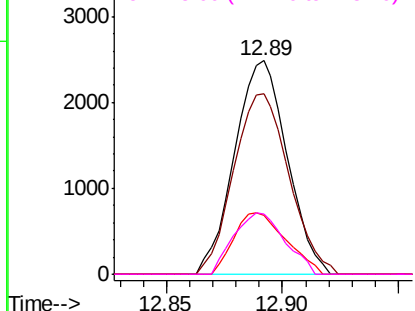
#67
 1,3,5-Trichlorobenzene
 Concen: 0.514 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.542

Tgt Ion:180 Resp: 3908
 Ion Ratio Lower Upper
 180 100
 182 89.0 78.0 117.0
 184 28.5 25.0 37.6
 145 27.8 22.9 34.3

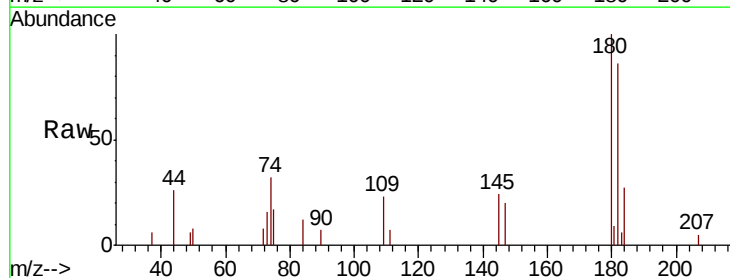


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

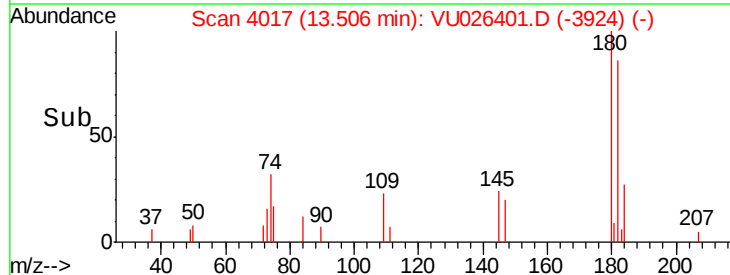
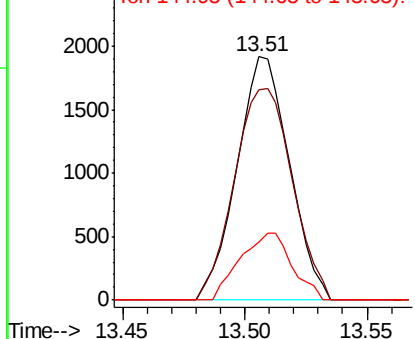


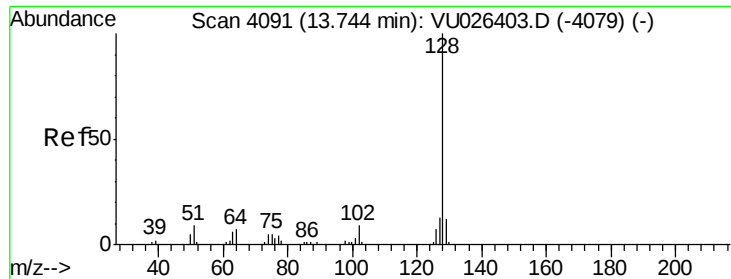
#68
 1,2,4-trichlorobenzene
 Concen: 0.468 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU026401.D
 Acq: 28 Aug 2018 16:02

Tgt Ion:180 Resp: 2859
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.9 115.3
 145 27.0 23.6 35.4



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.413 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.542

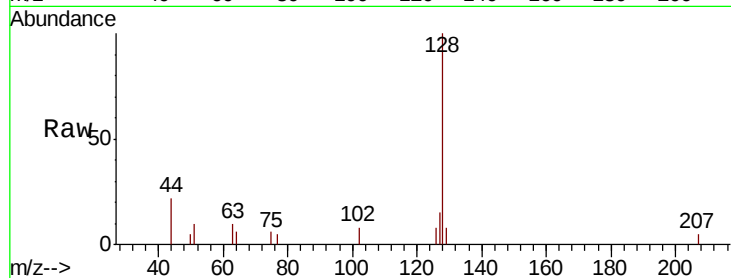
Tgt Ion:128 Resp: 3857

Ion Ratio Lower Upper

128 100

129 7.3 9.0 13.6#

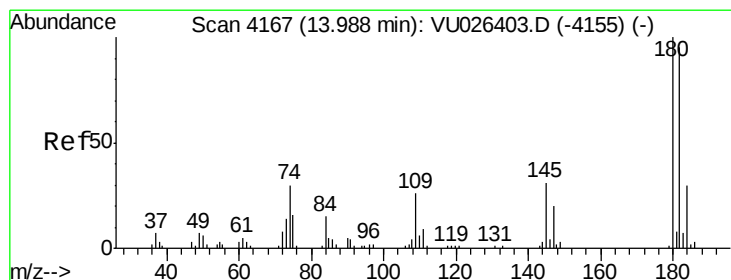
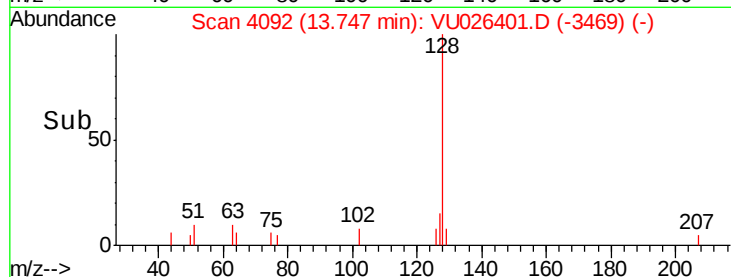
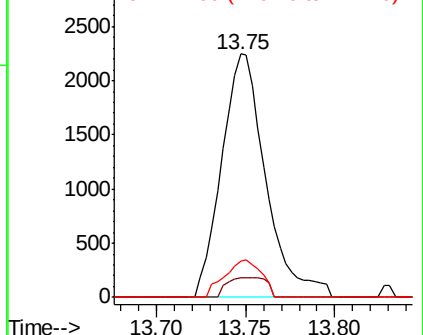
127 12.8 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.452 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU026401.D

Acq: 28 Aug 2018 16:02

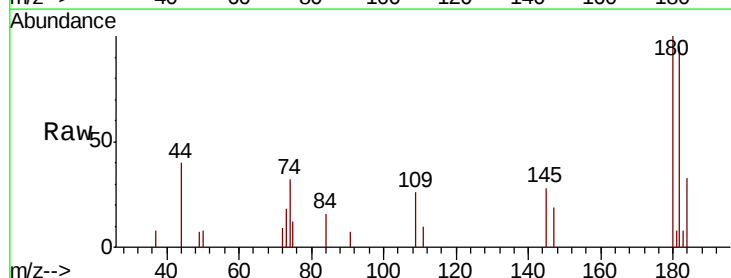
Tgt Ion:180 Resp: 2556

Ion Ratio Lower Upper

180 100

182 92.8 75.4 113.2

145 23.9 23.8 35.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

