

Data File : VU026166.D
Acq On : 15 Aug 2018 23:38
Operator : MD/SY
Sample : MDL04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Quant Time: Aug 16 04:44:24 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081518WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 16 04:40:24 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	272685	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	259005	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	107096	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	67305	42.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.06%
7) Chloroethane-d5	1.67	69	57989	44.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.12%
11) 1,1-Dichloroethene-d2	2.27	63	104826	33.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.68%
21) 2-Butanone-d5	4.18	46	129647	105.53	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.53%
24) Chloroform-d	4.65	84	163319	45.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.08%
26) 1,2-Dichloroethane-d4	5.31	65	109353	46.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.18%
32) Benzene-d6	5.35	84	313292	46.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.84%
36) 1,2-Dichloropropane-d6	6.33	67	105184	47.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.82%
41) Toluene-d8	7.57	98	286224	44.78	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.56%
43) trans-1,3-Dichloropropene-	7.85	79	46491	44.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.46%
47) 2-Hexanone-d5	8.31	63	89236	99.21	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.21%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	143103	46.31	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.62%
64) 1,2-Dichlorobenzene-d4	11.86	152	110041	49.38	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.76%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	4852	2.247 ug/L	99
3) Chloromethane	1.33	50	5500	2.797 ug/L	94
5) Vinyl chloride	1.40	62	4749	2.419 ug/L #	60
6) Bromomethane	1.62	94	2406	2.379 ug/L	99
8) Chloroethane	1.69	64	2649	2.254 ug/L #	76
9) Trichlorofluoromethane	1.88	101	6524	2.251 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	4152	2.644 ug/L	90
12) 1,1-Dichloroethene	2.28	96	3759	2.608 ug/L #	1
13) Acetone	2.32	43	5174	4.602 ug/L	93
14) Carbon disulfide	2.47	76	11771	2.356 ug/L	99
15) Methyl Acetate	2.62	43	5485	2.812 ug/L #	72
16) Methylene chloride	2.70	84	4942	2.560 ug/L	94
17) trans-1,2-Dichloroethene	2.98	96	3682	2.154 ug/L	94
18) Methyl tert-butyl Ether	3.00	73	11685	2.153 ug/L #	94
19) 1,1-Dichloroethane	3.45	63	8015	2.435 ug/L	94
20) cis-1,2-Dichloroethene	4.23	96	4305	2.246 ug/L	96
23) Bromochloromethane	4.55	128	1429	1.379 ug/L	95

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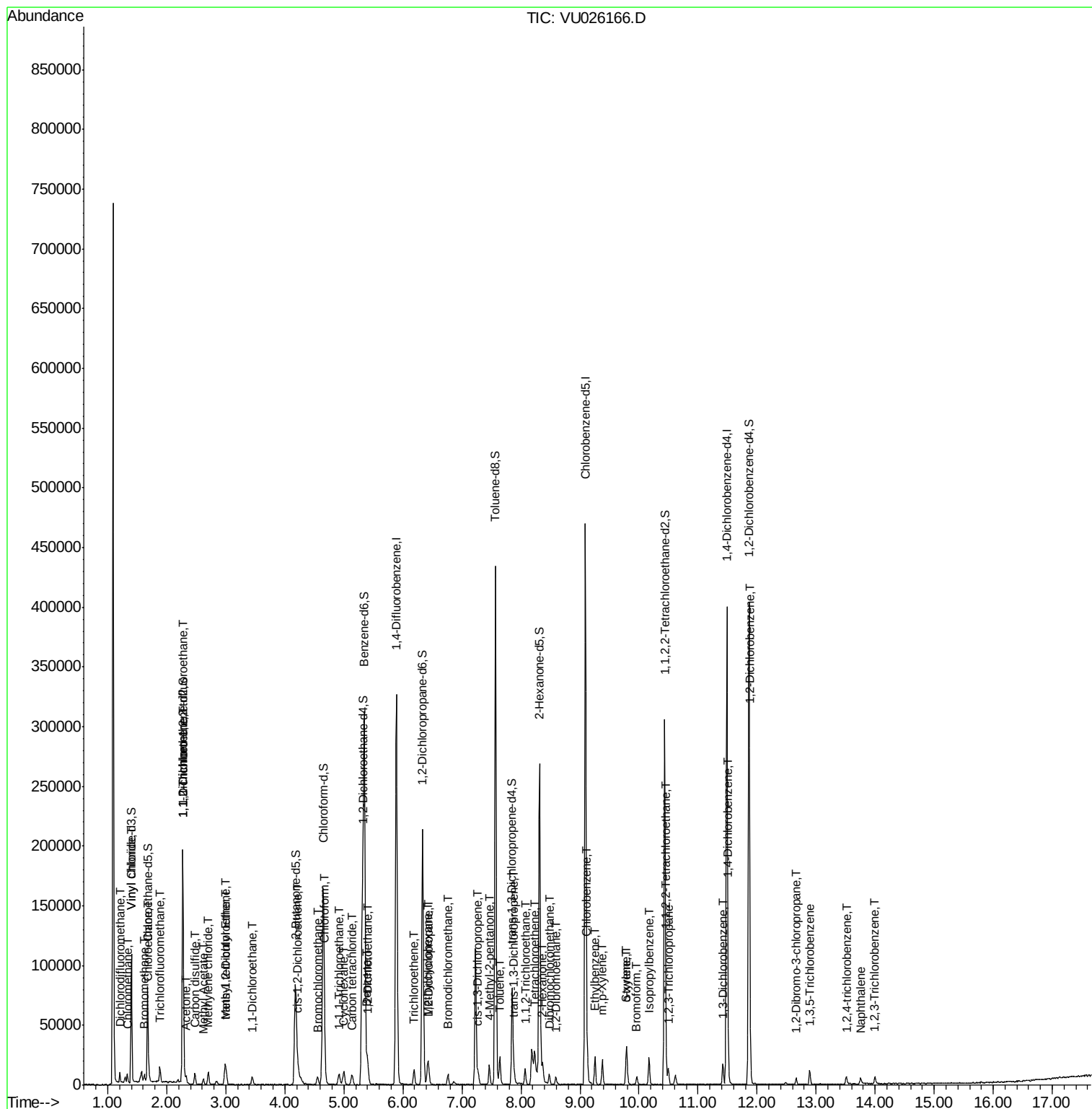
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.68	83	9430	2.729	ug/L	89
27) 1,2-Dichloroethane	5.41	62	6609	2.366	ug/L #	93
29) Cyclohexane	5.00	56	5458	2.109	ug/L	97
30) 1,1,1-Trichloroethane	4.92	97	7223	2.334	ug/L	97
31) Carbon tetrachloride	5.13	117	6773	2.416	ug/L	93
33) Benzene	5.39	78	16639	2.373	ug/L	100
34) Trichloroethene	6.19	95	4200	2.299	ug/L	89
35) Methylcyclohexane	6.42	83	5866	2.139	ug/L	91
37) 1,2-Dichloropropane	6.44	63	4726	2.413	ug/L #	91
38) Bromodichloromethane	6.76	83	6429	2.479	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	5863	2.016	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	10618	4.370	ug/L	100
42) Toluene	7.64	91	16232	2.179	ug/L	96
44) trans-1,3-Dichloropropene	7.89	75	5583	1.993	ug/L	97
45) 1,1,2-Trichloroethane	8.07	97	2238	1.205	ug/L	92
46) Tetrachloroethene	8.23	164	3567	2.264	ug/L	91
48) 2-Hexanone	8.36	43	9279	4.874	ug/L	96
49) Dibromochloromethane	8.48	129	4913	2.197	ug/L	94
50) 1,2-Dibromoethane	8.59	107	4534	2.351	ug/L #	97
51) Chlorobenzene	9.12	112	11345	2.229	ug/L	99
52) Ethylbenzene	9.25	91	16191	1.996	ug/L	95
53) m,p-Xylene	9.38	106	5627	1.800	ug/L	97
54) o-xylene	9.78	106	5931	1.901	ug/L	97
55) Styrene	9.80	104	8650	1.665	ug/L	99
56) Isopropylbenzene	10.17	105	13823	1.726	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	7793	2.513	ug/L	95
59) 1,2,3-Trichloropropane	10.50	75	5429	2.250	ug/L	98
61) Bromoform	9.96	173	3263	2.330	ug/L #	94
62) 1,3-Dichlorobenzene	11.42	146	7301	2.275	ug/L	92
63) 1,4-Dichlorobenzene	11.51	146	7686	2.322	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	8749	2.551	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.66	75	1392	2.560	ug/L #	76
67) 1,3,5-Trichlorobenzene	12.90	180	4396	1.855	ug/L	94
68) 1,2,4-trichlorobenzene	13.51	180	2585	1.440	ug/L	92
69) Naphthalene	13.75	128	6710	1.313	ug/L #	93
70) 1,2,3-Trichlorobenzene	13.99	180	2531	1.315	ug/L	92

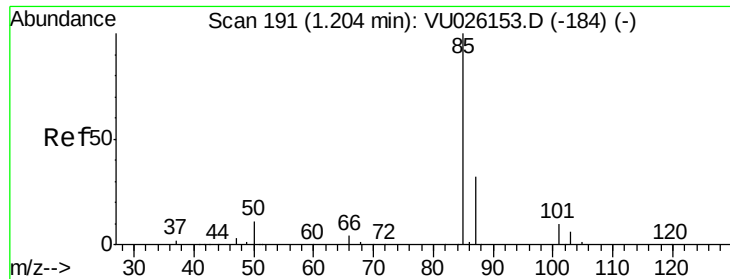
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.247 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA_U

ClientSampleId :

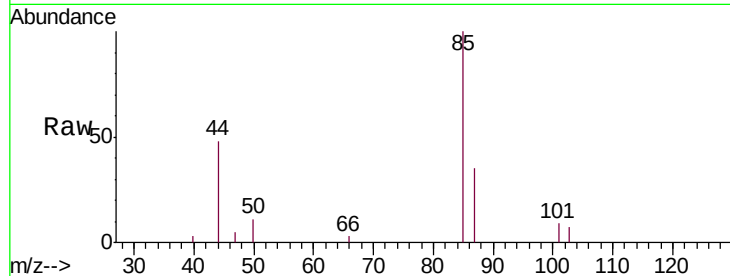
MDL04

Tgt Ion: 85 Resp: 4852

Ion Ratio Lower Upper

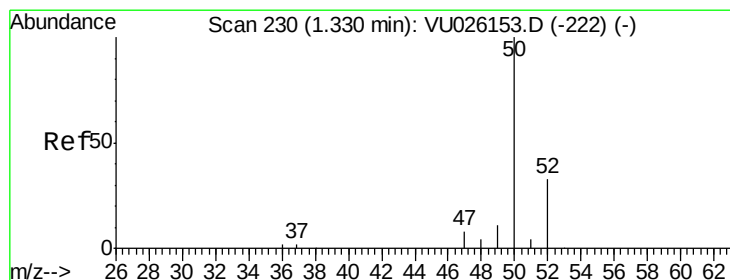
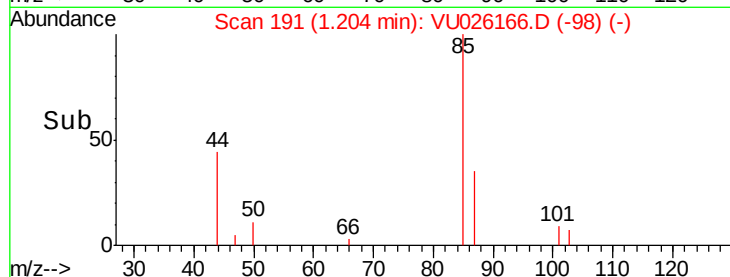
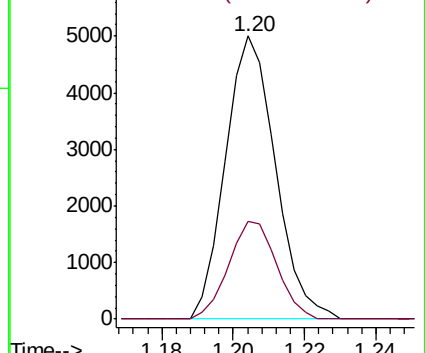
85 100

87 33.1 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 2.797 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU026166.D

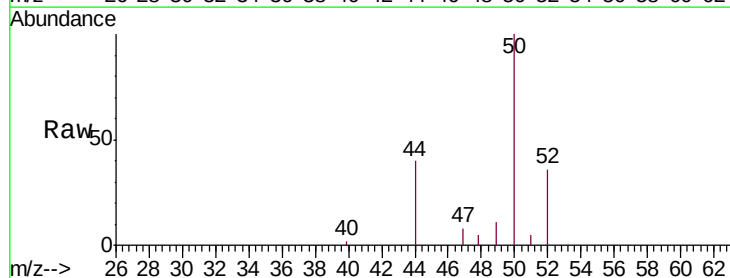
Acq: 15 Aug 2018 23:38

Tgt Ion: 50 Resp: 5500

Ion Ratio Lower Upper

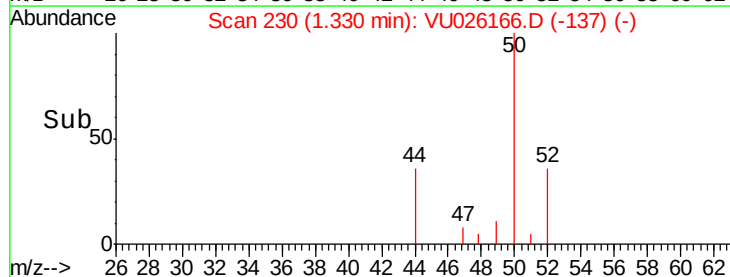
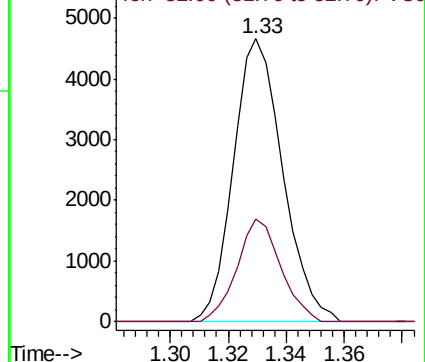
50 100

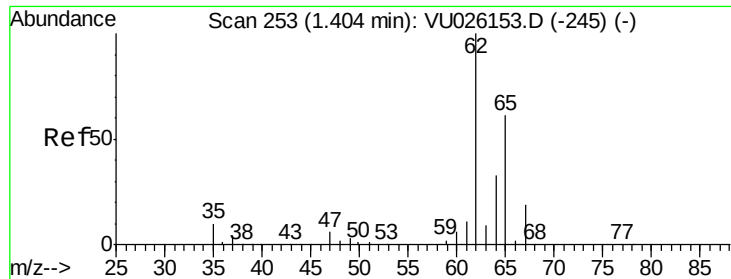
52 36.4 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 2.419 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA_U

ClientSampleId :

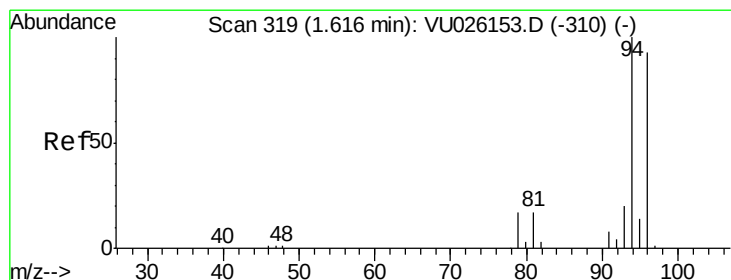
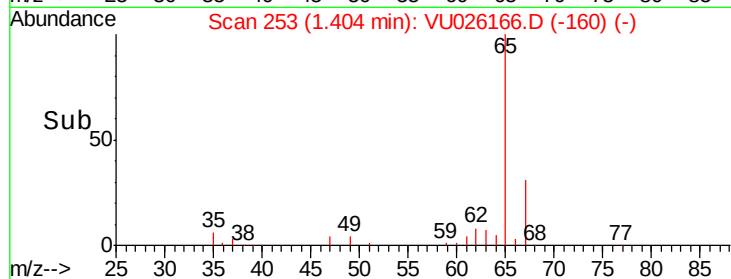
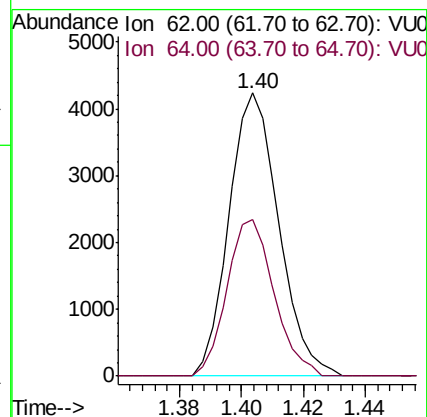
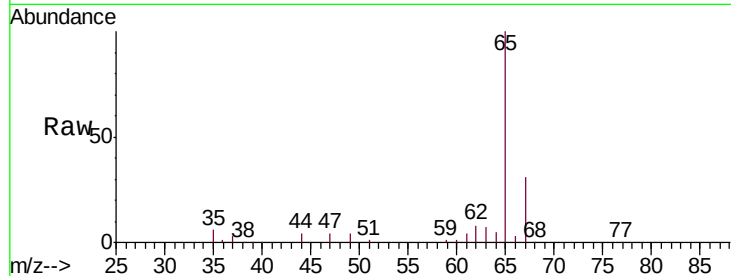
MDL04

Tgt Ion: 62 Resp: 4749

Ion Ratio Lower Upper

62 100

64 55.5 23.0 42.8#



#6

Bromomethane

Concen: 2.379 ug/L

RT: 1.62 min Scan# 319

Delta R.T. -0.00 min

Lab File: VU026166.D

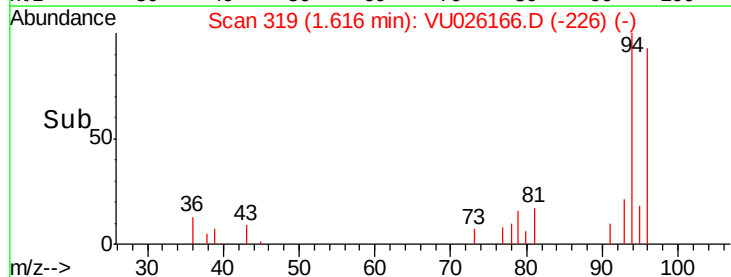
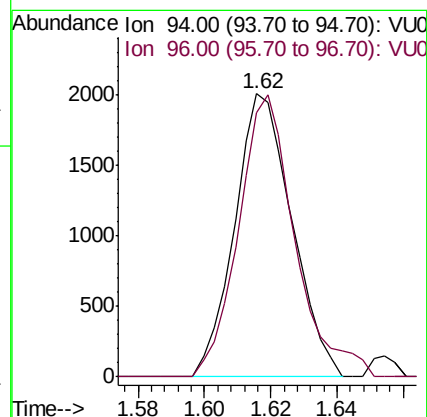
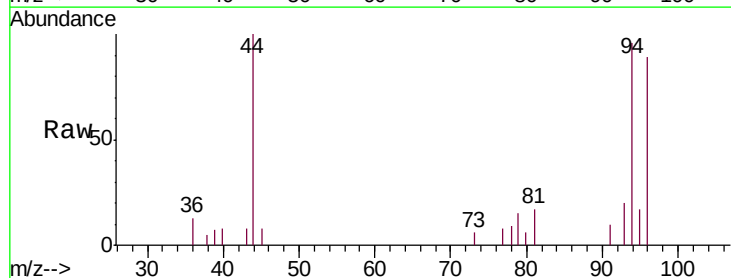
Acq: 15 Aug 2018 23:38

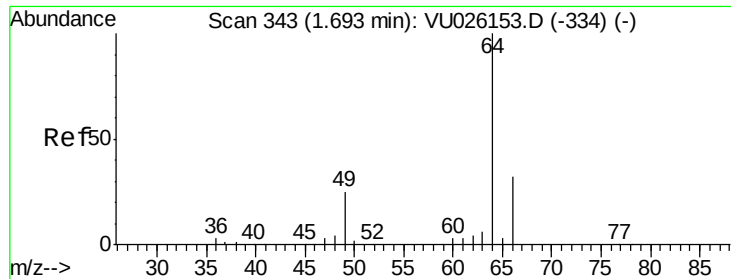
Tgt Ion: 94 Resp: 2406

Ion Ratio Lower Upper

94 100

96 93.2 65.9 122.5





#8

Chloroethane

Concen: 2.254 ug/L

RT: 1.69 min Scan# 343

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA_U

ClientSampleId :

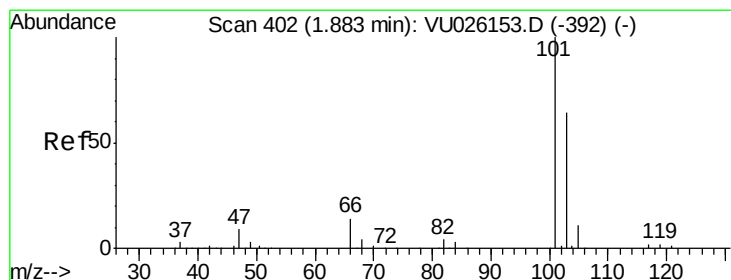
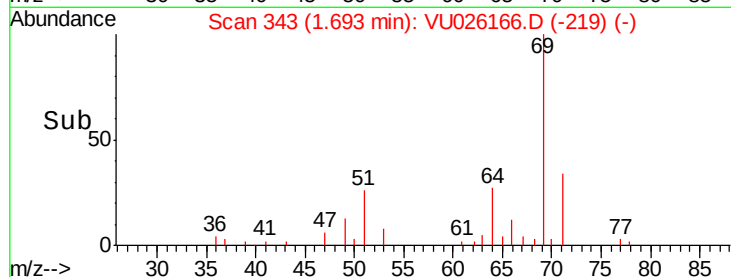
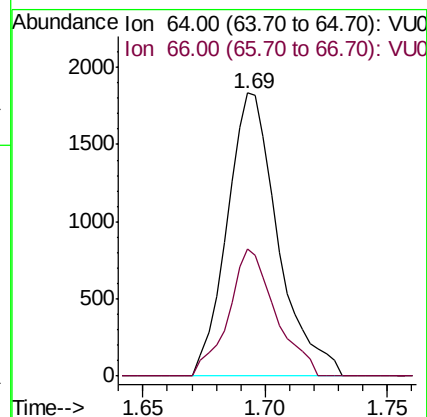
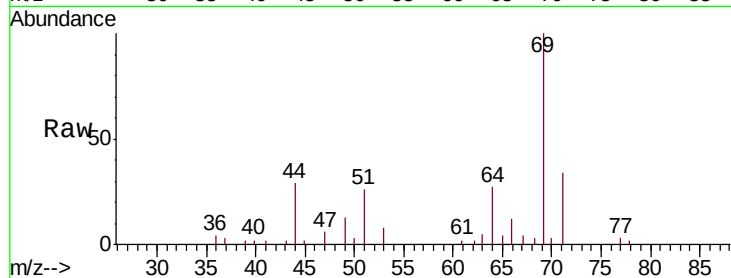
MDL04

Tgt Ion: 64 Resp: 2649

Ion Ratio Lower Upper

64 100

66 45.0 22.2 41.2#



#9

Trichlorofluoromethane

Concen: 2.251 ug/L

RT: 1.88 min Scan# 402

Delta R.T. -0.00 min

Lab File: VU026166.D

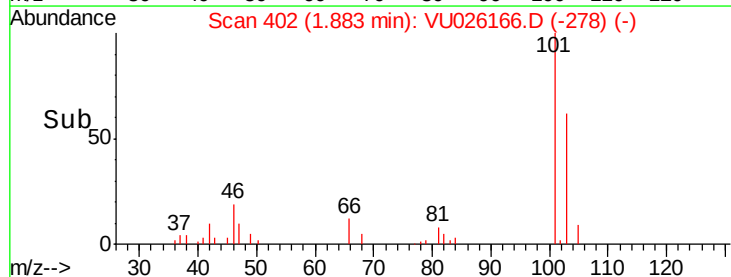
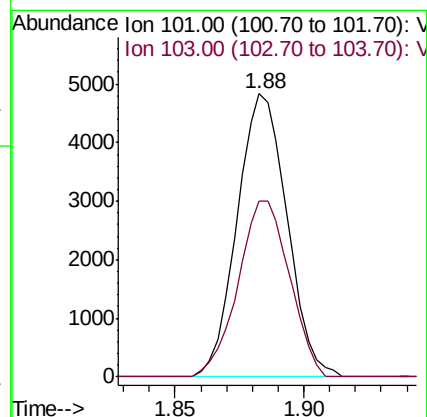
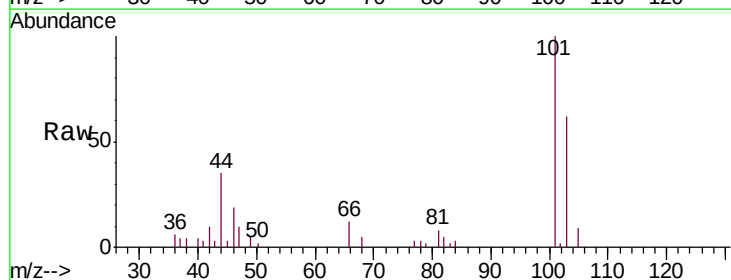
Acq: 15 Aug 2018 23:38

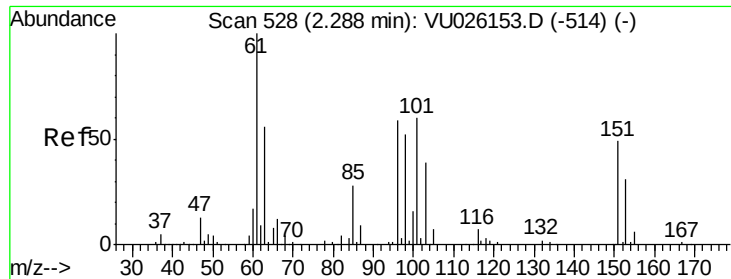
Tgt Ion: 101 Resp: 6524

Ion Ratio Lower Upper

101 100

103 64.2 51.4 77.2





#10

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

Concen: 2.644 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA_U

ClientSampleId :

MDL04

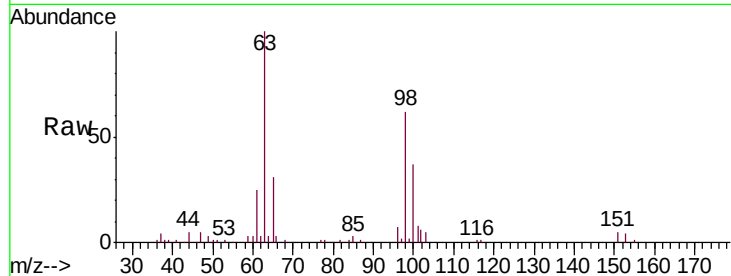
Tgt Ion:101 Resp: 4152

Ion Ratio Lower Upper

101 100

85 42.7 36.6 55.0

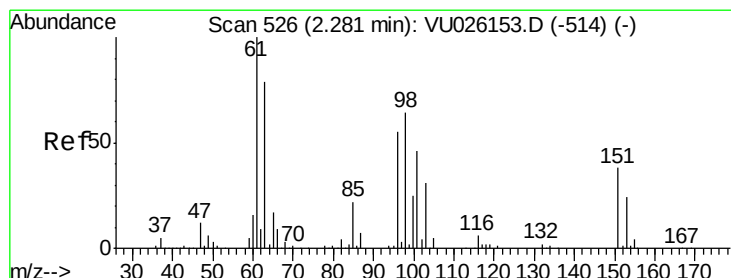
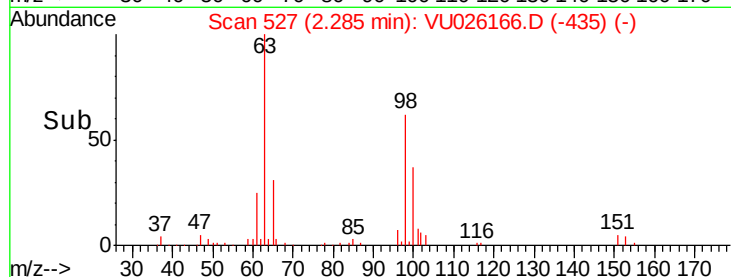
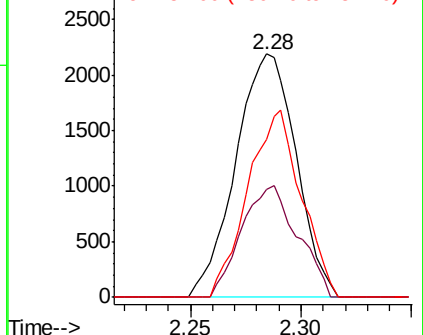
151 67.8 63.8 95.8



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: 2.608 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

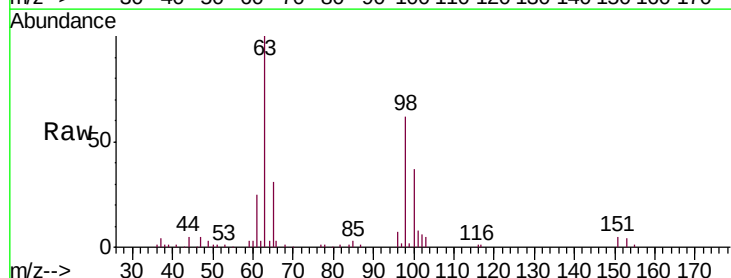
Tgt Ion: 96 Resp: 3759

Ion Ratio Lower Upper

96 100

61 339.2 126.8 235.4#

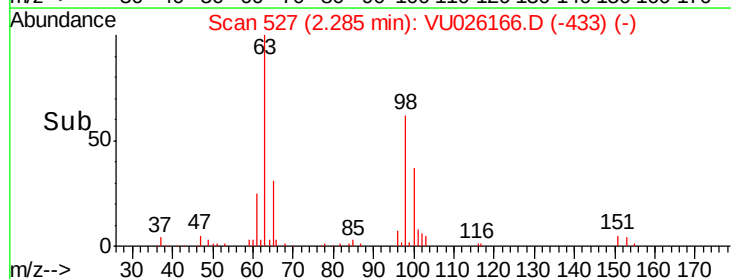
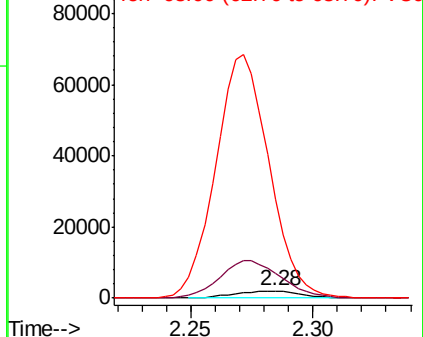
63 1366.7 97.0 180.2#

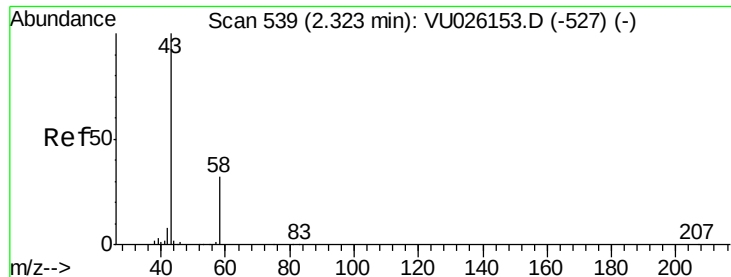


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 4.602 ug/L

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

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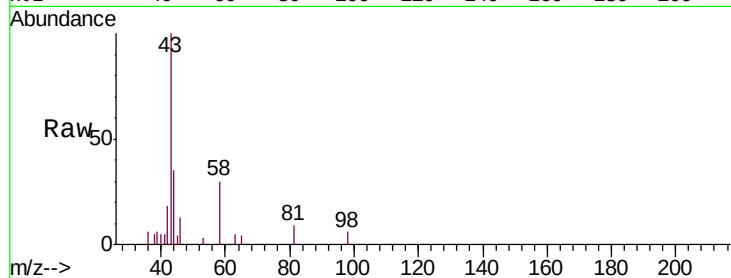
MDL04

Tgt Ion: 43 Resp: 5174

Ion Ratio Lower Upper

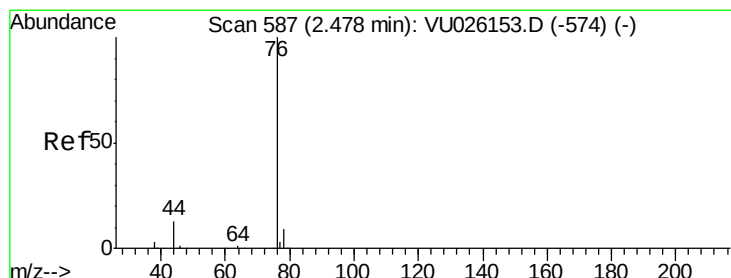
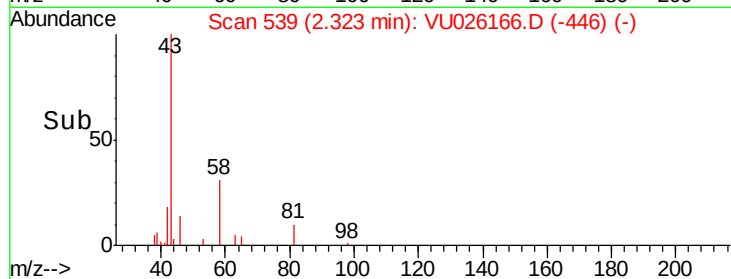
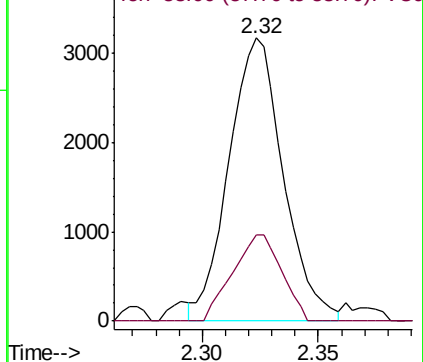
43 100

58 27.4 0.0 62.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 2.356 ug/L

RT: 2.47 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU026166.D

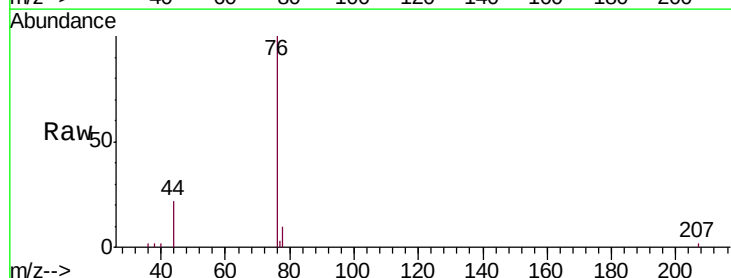
Acq: 15 Aug 2018 23:38

Tgt Ion: 76 Resp: 11771

Ion Ratio Lower Upper

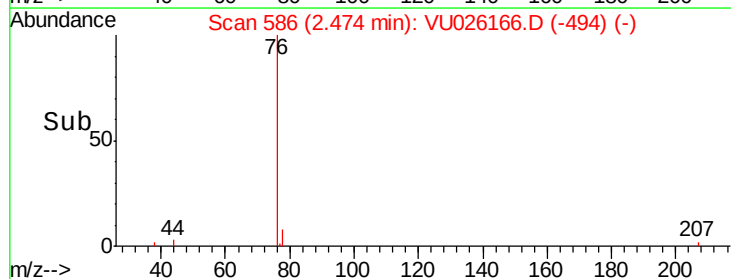
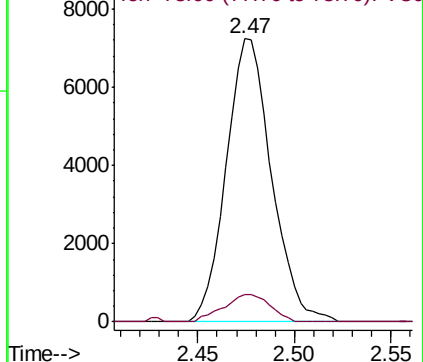
76 100

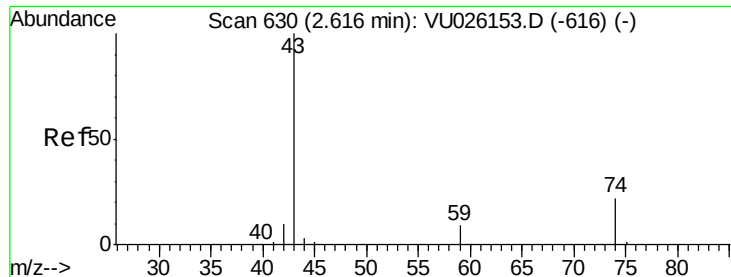
78 9.8 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 2.812 ug/L

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

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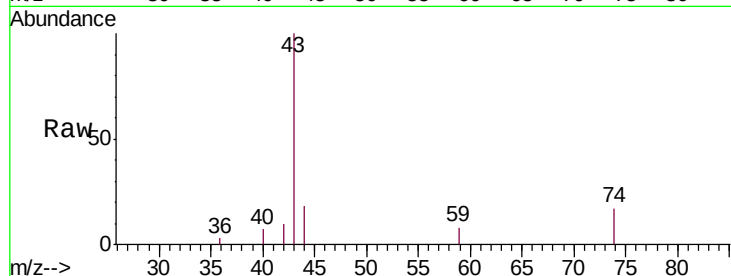
MDL04

Tgt Ion: 43 Resp: 5485

Ion Ratio Lower Upper

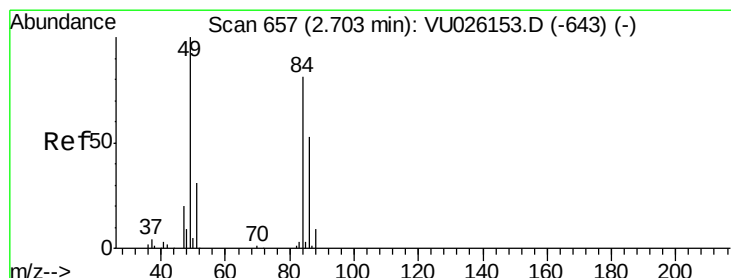
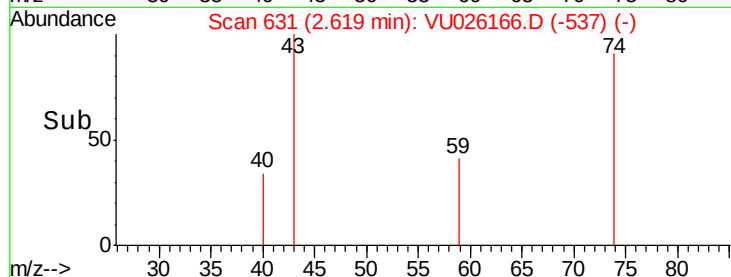
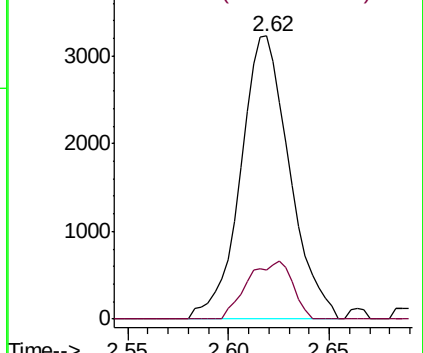
43 100

74 9.6 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 2.560 ug/L

RT: 2.70 min Scan# 656

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

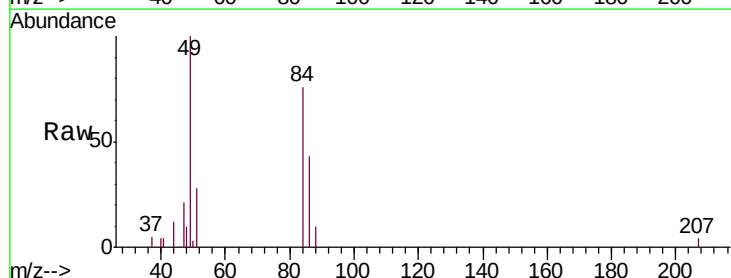
Tgt Ion: 84 Resp: 4942

Ion Ratio Lower Upper

84 100

86 56.0 44.0 81.6

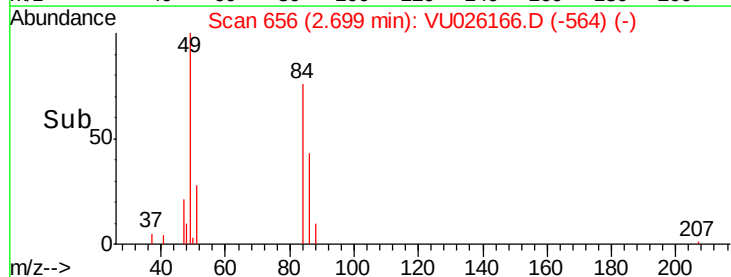
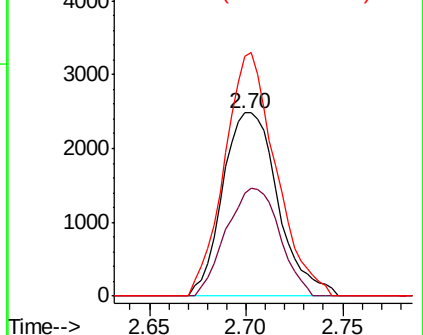
49 130.8 87.7 162.9

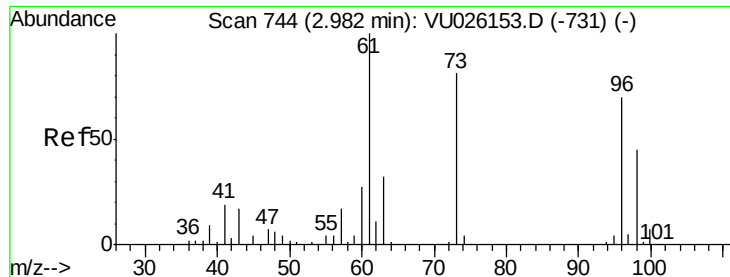


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 2.154 ug/L

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA_U

ClientSampleId :

MDL04

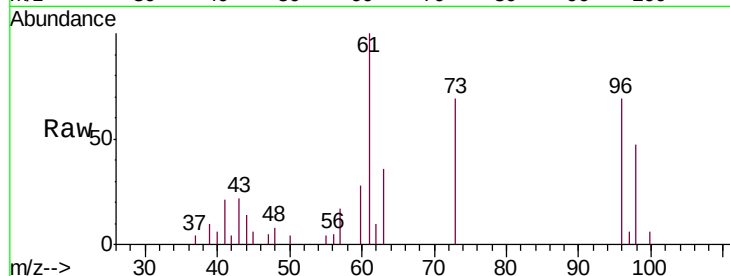
Tgt Ion: 96 Resp: 3682

Ion Ratio Lower Upper

96 100

61 144.7 96.7 179.5

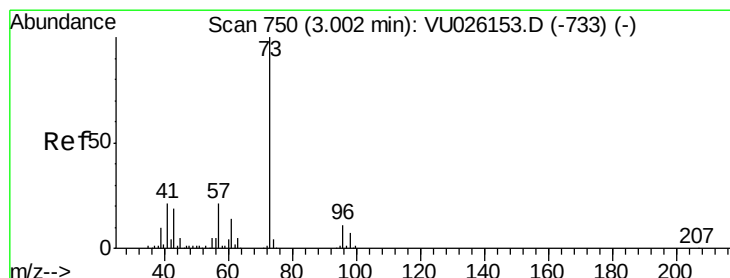
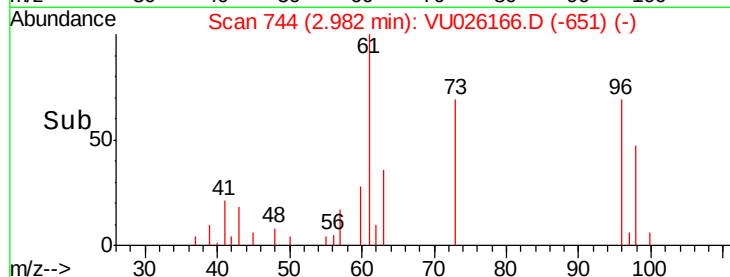
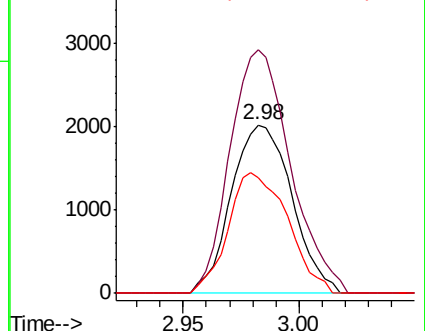
98 68.5 43.6 81.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 2.153 ug/L

RT: 3.00 min Scan# 751

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

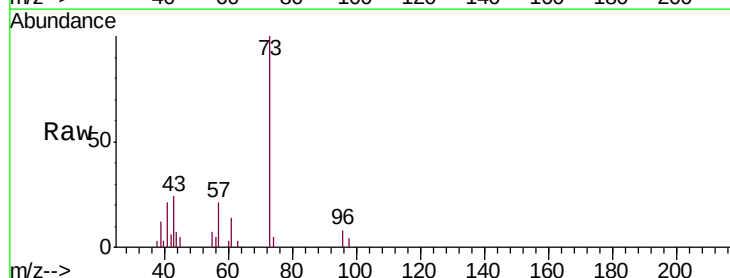
Tgt Ion: 73 Resp: 11685

Ion Ratio Lower Upper

73 100

43 24.4 16.2 24.4#

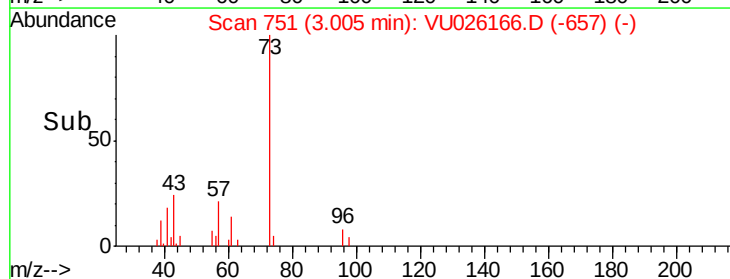
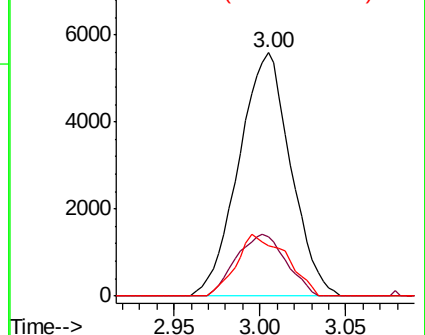
57 24.5 18.2 27.2

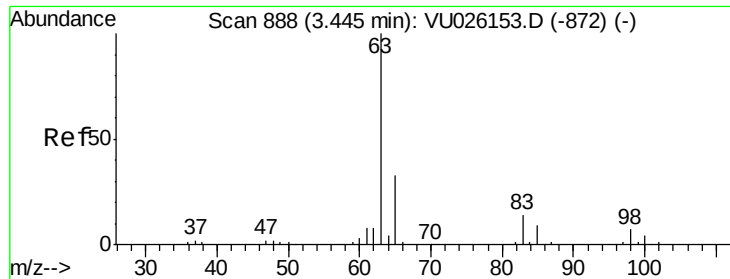


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 2.435 ug/L

RT: 3.45 min Scan# 888

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA_U

ClientSampleId :

MDL04

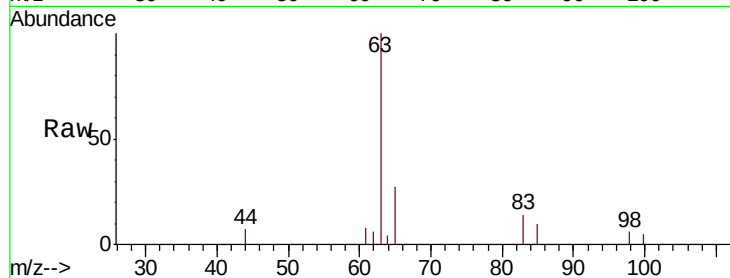
Tgt Ion: 63 Resp: 8015

Ion Ratio Lower Upper

63 100

65 27.1 22.1 41.1

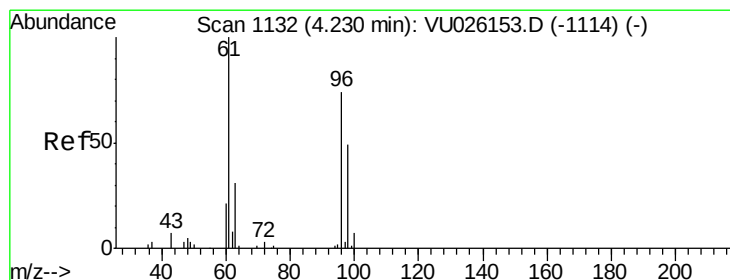
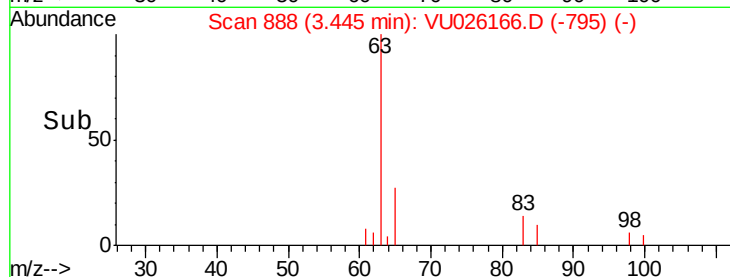
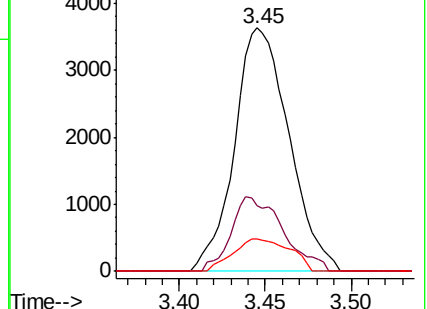
83 13.6 9.4 17.4



Abundance Ion 63.00 (62.70 to 63.70): VU026153.D (-872) (-)

Ion 65.00 (64.70 to 65.70): VU026153.D (-872) (-)

Ion 83.00 (82.70 to 83.70): VU026153.D (-872) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.246 ug/L

RT: 4.23 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

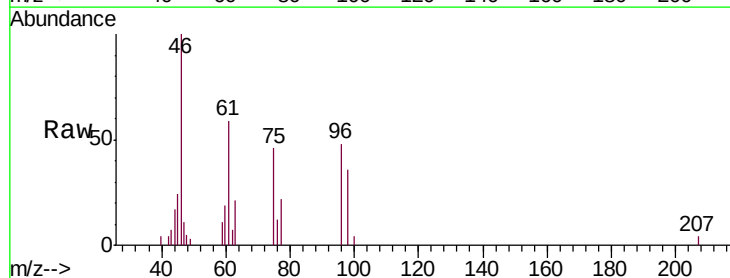
Tgt Ion: 96 Resp: 4305

Ion Ratio Lower Upper

96 100

61 122.4 88.6 164.6

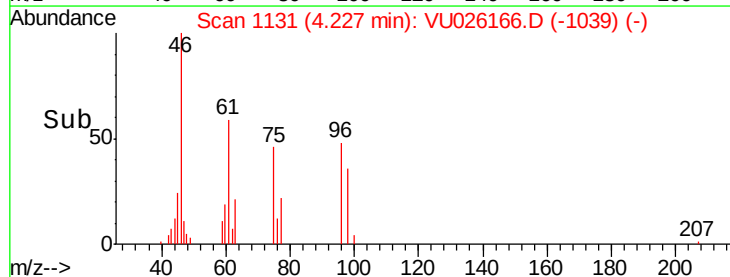
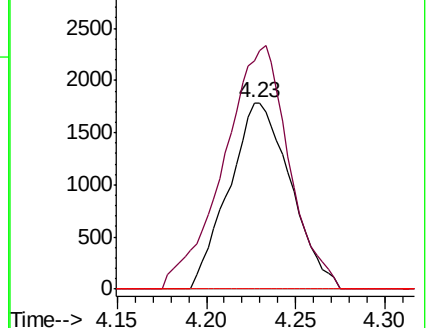
68 0.0 0.0 0.0

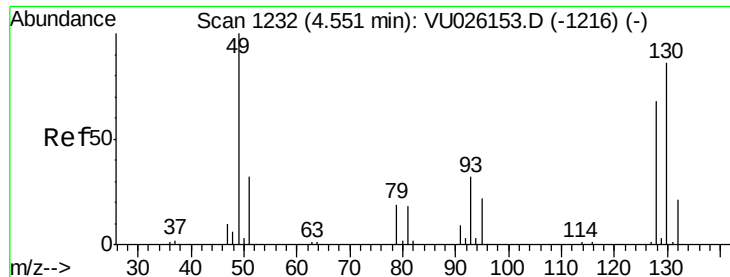


Abundance Ion 96.00 (95.70 to 96.70): VU026153.D (-1114) (-)

Ion 61.00 (60.70 to 61.70): VU026153.D (-1114) (-)

Ion 68.00 (67.70 to 68.70): VU026153.D (-1114) (-)





#23

Bromochloromethane

Concen: 1.379 ug/L

RT: 4.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VU026166.D

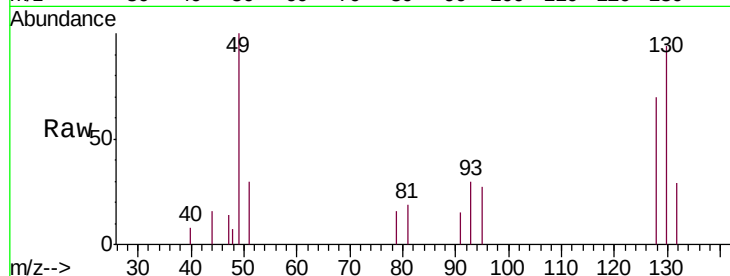
Acq: 15 Aug 2018 23:38

Instrument :

MSVOA_U

ClientSampleId :

MDL04



Tgt Ion:128 Resp: 1429

Ion Ratio Lower Upper

128 100

49 142.3 101.3 188.1

130 133.4 86.4 160.4

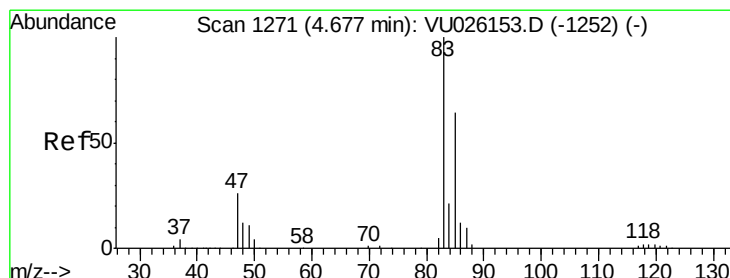
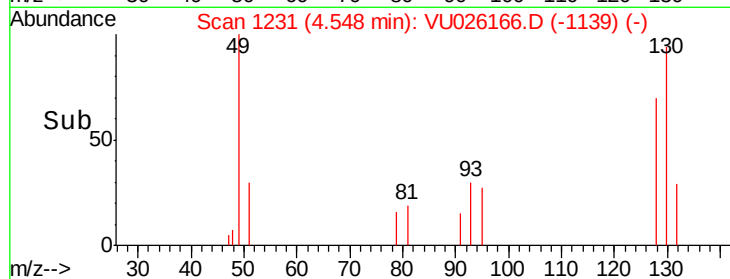
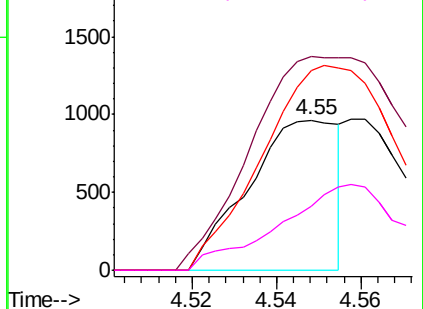
51 43.0 38.1 57.1

Abundance Ion 128.00 (127.70 to 128.70): VU026166.D (-1139) (-)

Ion 49.00 (48.70 to 49.70): VU026166.D (-1139) (-)

Ion 130.00 (129.70 to 130.70): VU026166.D (-1139) (-)

Ion 51.00 (50.70 to 51.70): VU026166.D (-1139) (-)



#25

Chloroform

Concen: 2.729 ug/L

RT: 4.68 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Tgt Ion: 83 Resp: 9430

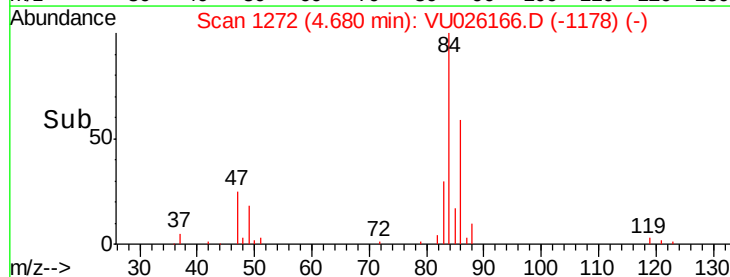
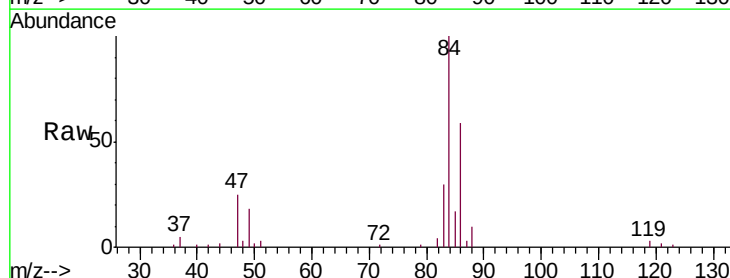
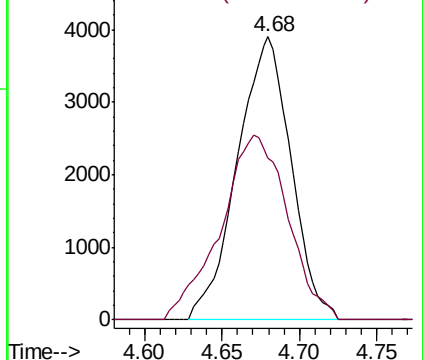
Ion Ratio Lower Upper

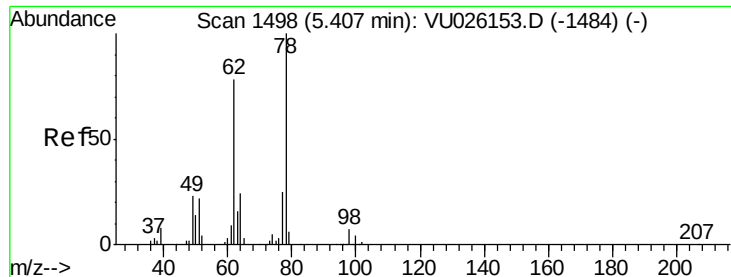
83 100

85 57.3 46.3 86.1

Abundance Ion 83.00 (82.70 to 83.70): VU026166.D (-1178) (-)

Ion 85.00 (84.70 to 85.70): VU026166.D (-1178) (-)

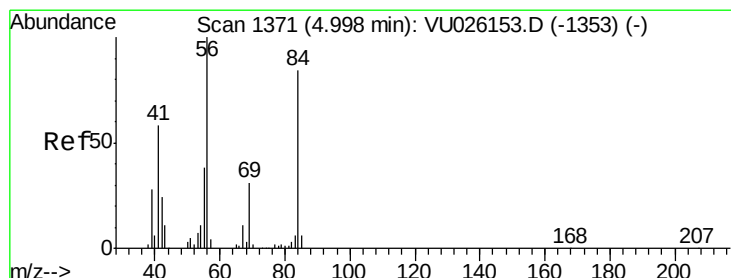
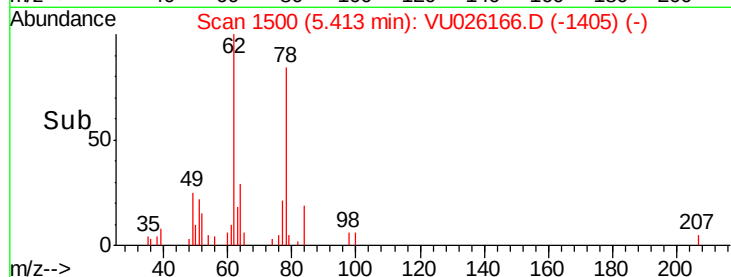
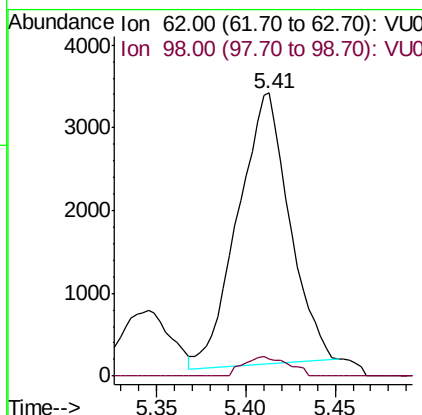
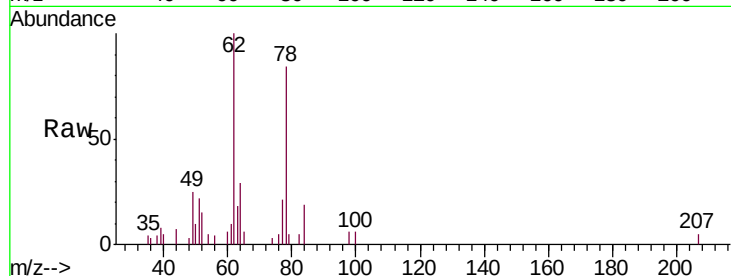




#27
 1,2-Dichloroethane
 Concen: 2.366 ug/L
 RT: 5.41 min Scan# 1500
 Delta R.T. 0.01 min
 Lab File: VU026166.D
 Acq: 15 Aug 2018 23:38

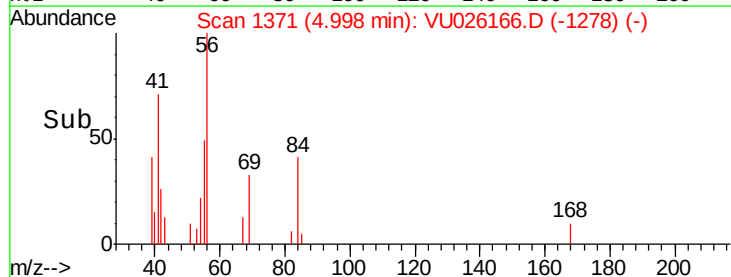
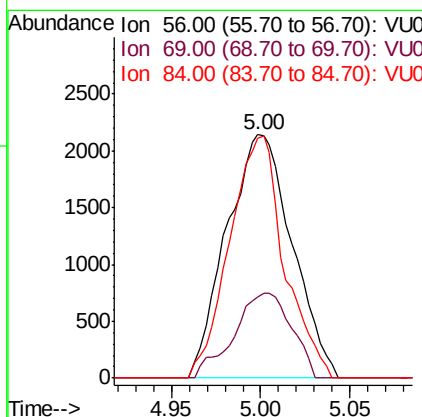
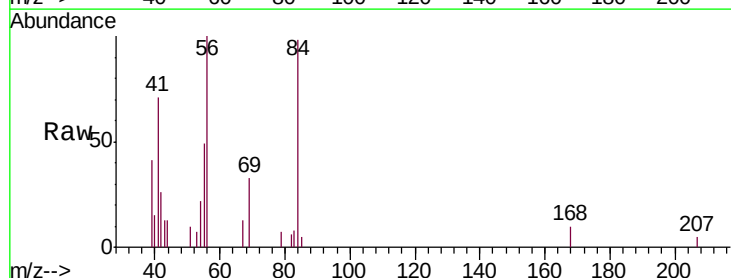
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

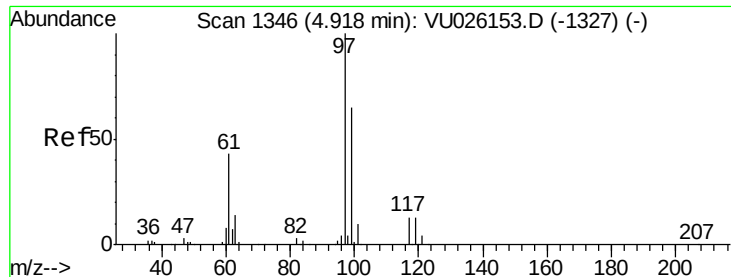
Tgt Ion: 62 Resp: 6609
 Ion Ratio Lower Upper
 62 100
 98 6.1 7.0 10.4#



#29
 Cyclohexane
 Concen: 2.109 ug/L
 RT: 5.00 min Scan# 1371
 Delta R.T. -0.00 min
 Lab File: VU026166.D
 Acq: 15 Aug 2018 23:38

Tgt Ion: 56 Resp: 5458
 Ion Ratio Lower Upper
 56 100
 69 29.1 24.1 36.1
 84 83.1 68.6 102.8

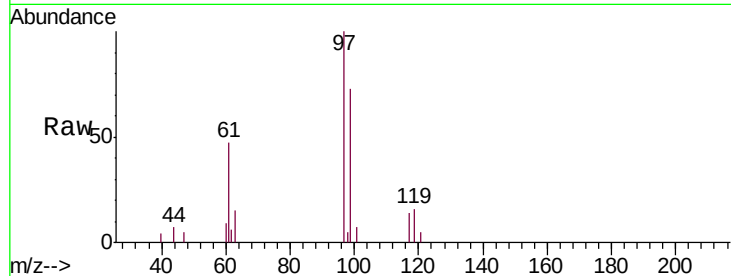




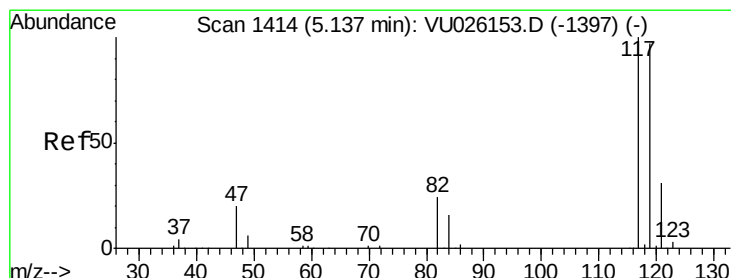
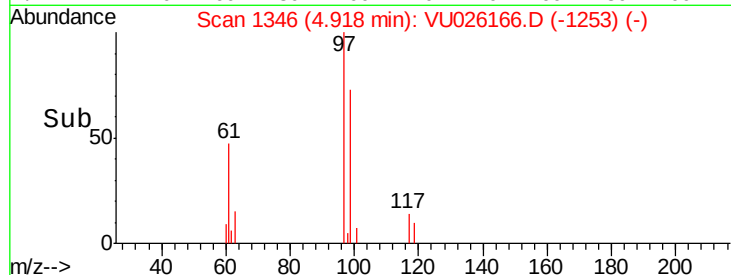
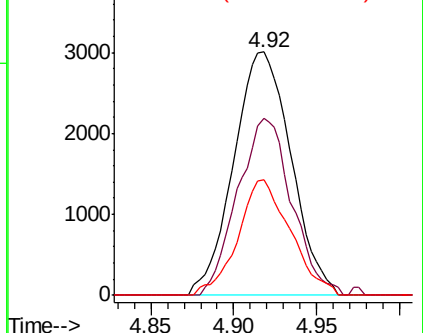
#30
 1,1,1-Trichloroethane
 Concen: 2.334 ug/L
 RT: 4.92 min Scan# 1346
 Delta R.T. -0.00 min
 Lab File: VU026166.D
 Acq: 15 Aug 2018 23:38

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tgt Ion: 97 Resp: 7223
 Ion Ratio Lower Upper
 97 100
 99 68.9 52.2 78.2
 61 43.4 35.4 53.0

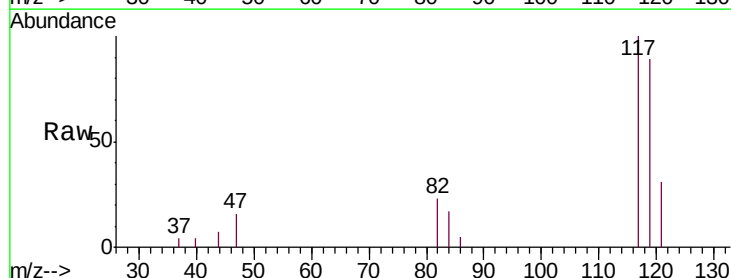


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0

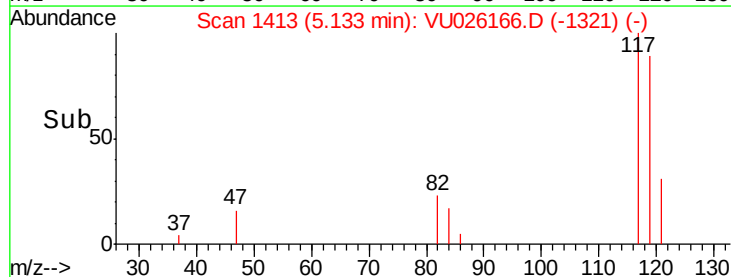
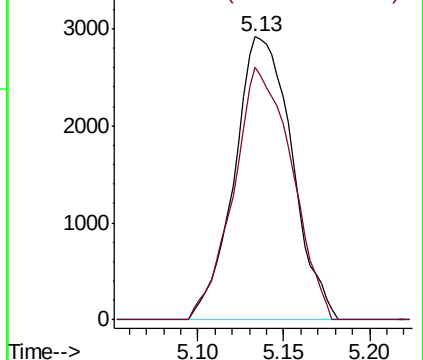


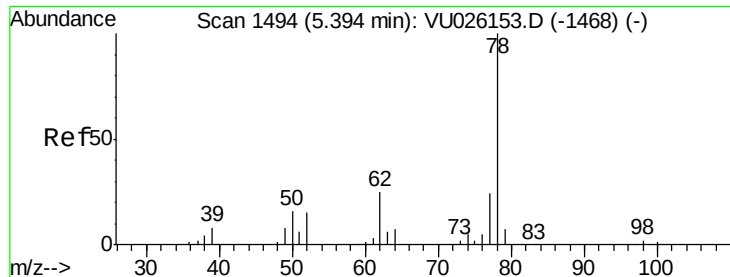
#31
 Carbon tetrachloride
 Concen: 2.416 ug/L
 RT: 5.13 min Scan# 1413
 Delta R.T. -0.00 min
 Lab File: VU026166.D
 Acq: 15 Aug 2018 23:38

Tgt Ion: 117 Resp: 6773
 Ion Ratio Lower Upper
 117 100
 119 90.1 77.4 116.2



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V

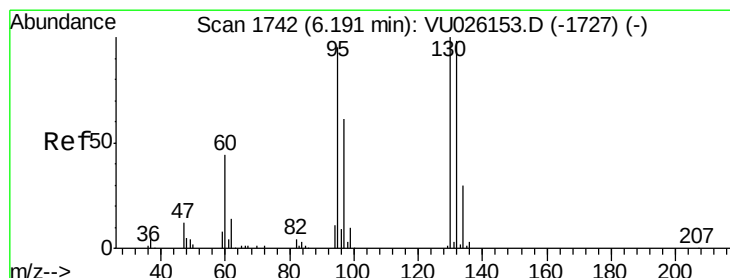
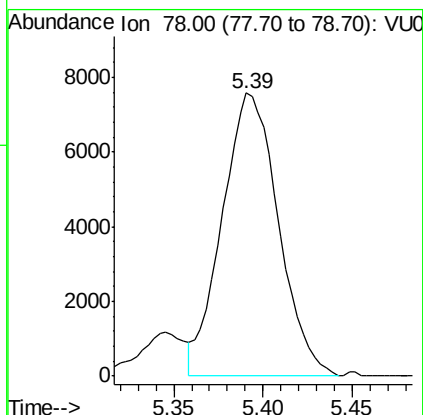
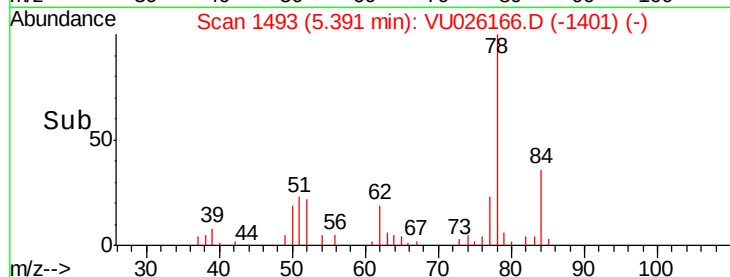
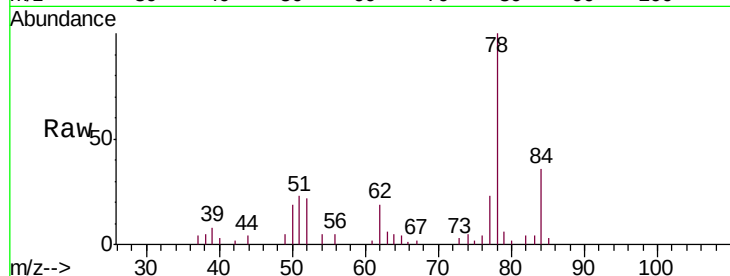




#33
Benzene
Concen: 2.373 ug/L
RT: 5.39 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VU026166.D
Acq: 15 Aug 2018 23:38

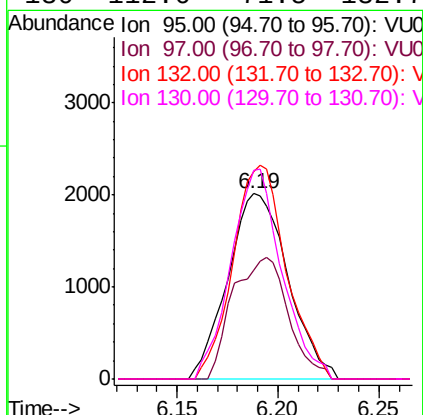
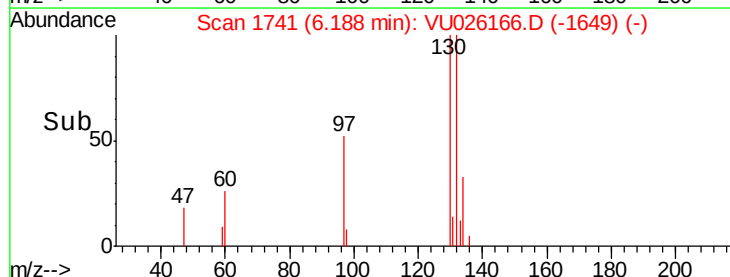
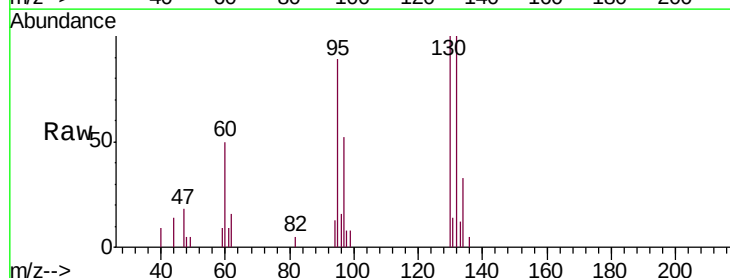
Instrument :
MSVOA_U
ClientSampled :
MDL04

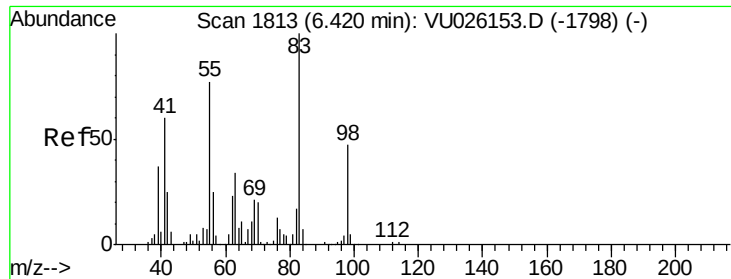
Tgt Ion: 78 Resp: 16639



#34
Trichloroethene
Concen: 2.299 ug/L
RT: 6.19 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VU026166.D
Acq: 15 Aug 2018 23:38

Tgt Ion: 95 Resp: 4200
Ion Ratio Lower Upper
95 100
97 58.5 45.7 84.9
132 112.1 68.8 127.8
130 112.6 71.5 132.7

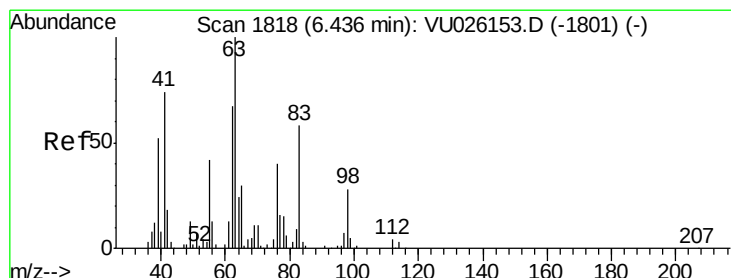
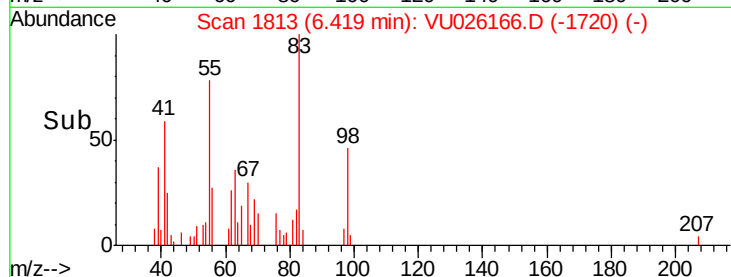
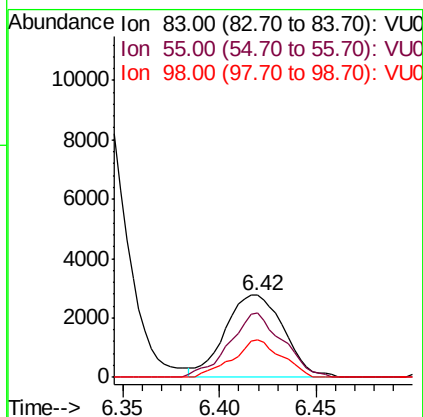
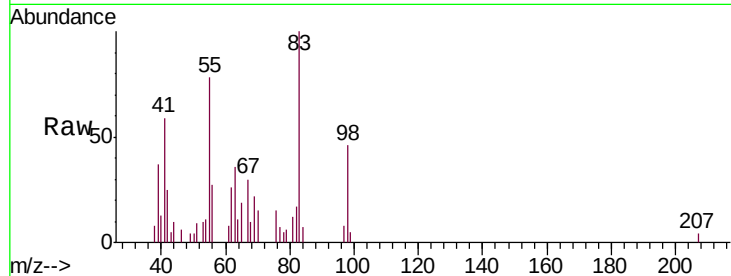




#35
Methylcyclohexane
Concen: 2.139 ug/L
RT: 6.42 min Scan# 1813
Delta R.T. -0.00 min
Lab File: VU026166.D
Acq: 15 Aug 2018 23:38

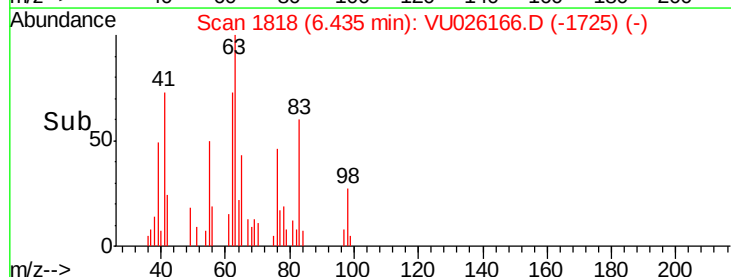
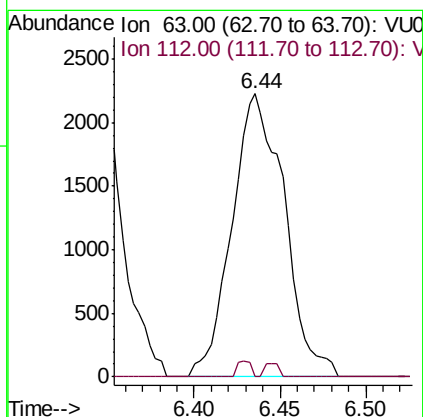
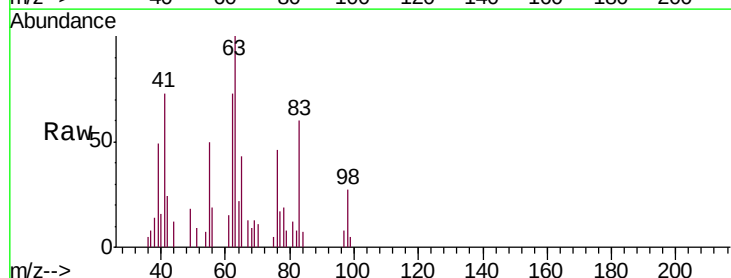
Instrument :
MSVOA_U
ClientSampleId :
MDL04

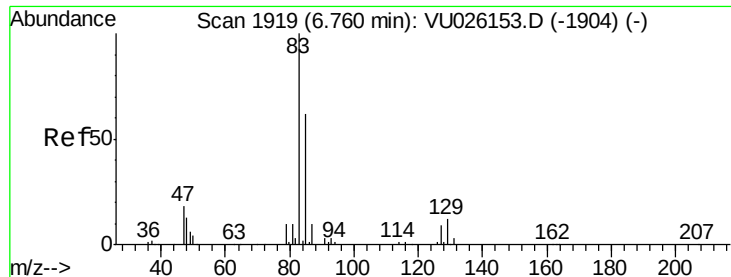
Tgt Ion: 83 Resp: 5866
Ion Ratio Lower Upper
83 100
55 70.6 61.0 91.6
98 37.8 37.6 56.4



#37
1,2-Dichloropropane
Concen: 2.413 ug/L
RT: 6.44 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VU026166.D
Acq: 15 Aug 2018 23:38

Tgt Ion: 63 Resp: 4726
Ion Ratio Lower Upper
63 100
112 1.5 3.5 5.3#

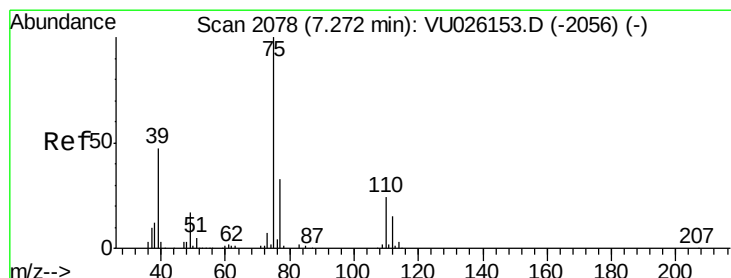
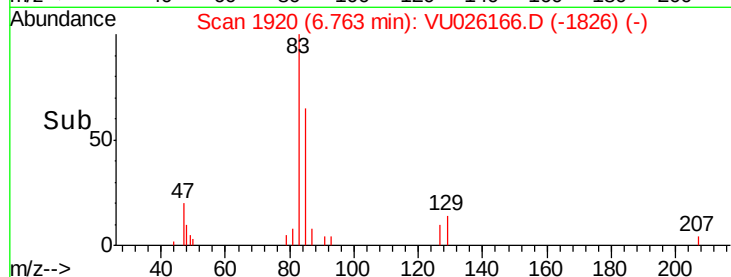
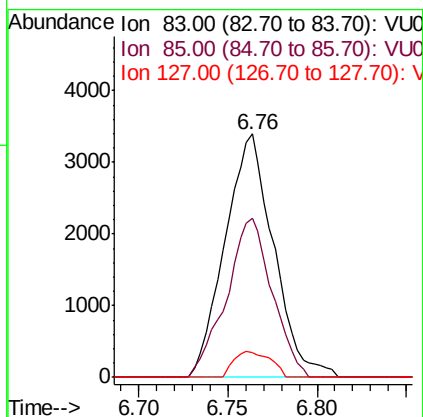
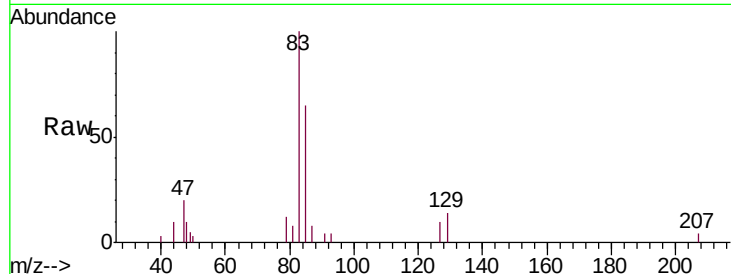




#38
 Bromodichloromethane
 Concen: 2.479 ug/L
 RT: 6.76 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU026166.D
 Acq: 15 Aug 2018 23:38

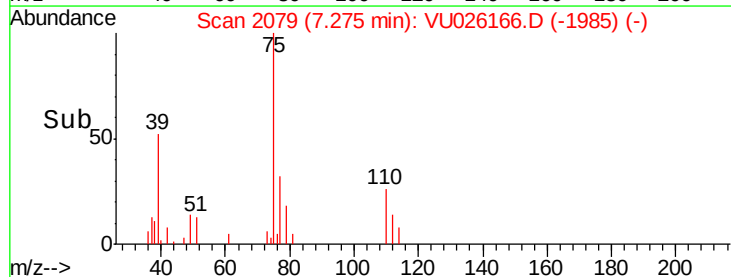
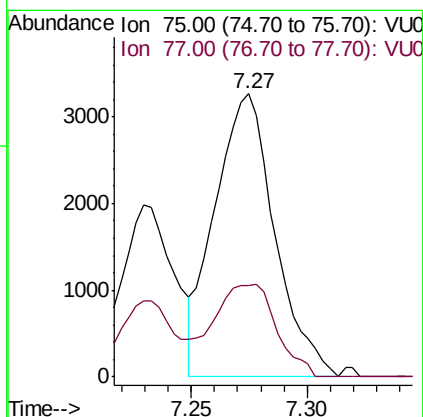
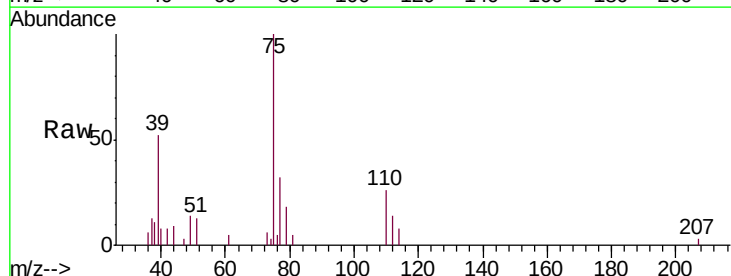
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

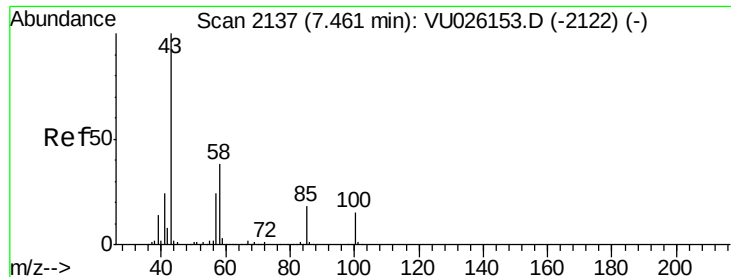
Tgt Ion: 83 Resp: 6429
 Ion Ratio Lower Upper
 83 100
 85 65.3 46.0 85.4
 127 10.1 7.5 11.3



#39
 cis-1,3-Dichloropropene
 Concen: 2.016 ug/L
 RT: 7.27 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VU026166.D
 Acq: 15 Aug 2018 23:38

Tgt Ion: 75 Resp: 5863
 Ion Ratio Lower Upper
 75 100
 77 32.5 22.2 41.2

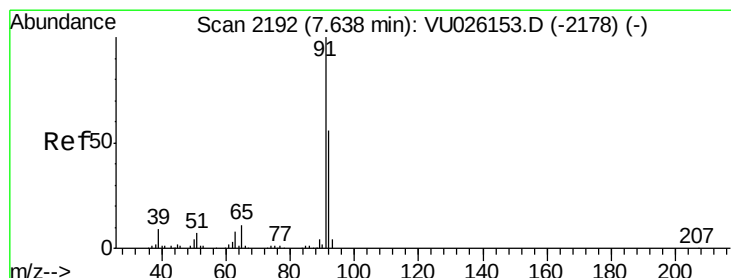
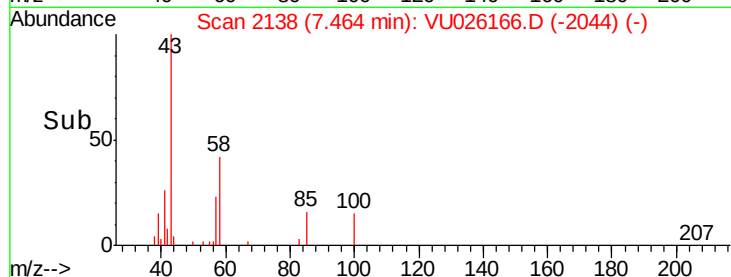
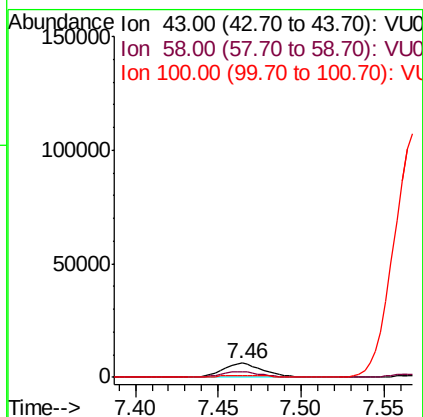
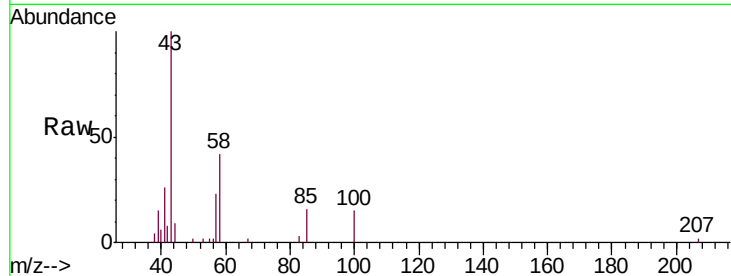




#40
4-Methyl-2-pentanone
Concen: 4.370 ug/L
RT: 7.46 min Scan# 2138
Delta R.T. 0.00 min
Lab File: VU026166.D
Acq: 15 Aug 2018 23:38

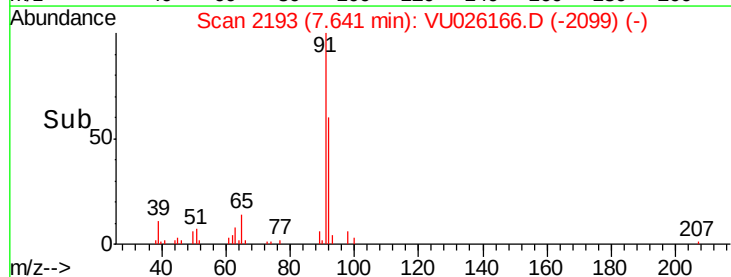
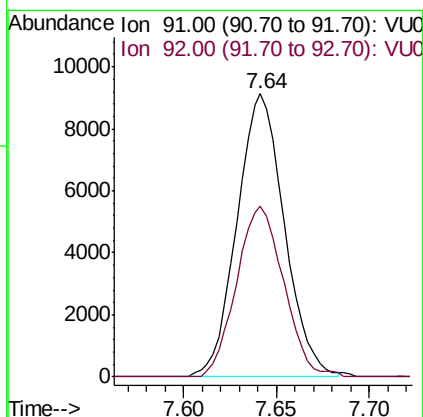
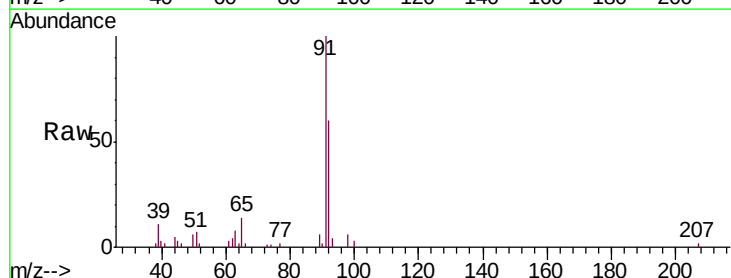
Instrument :
MSVOA_U
ClientSampleID :
MDL04

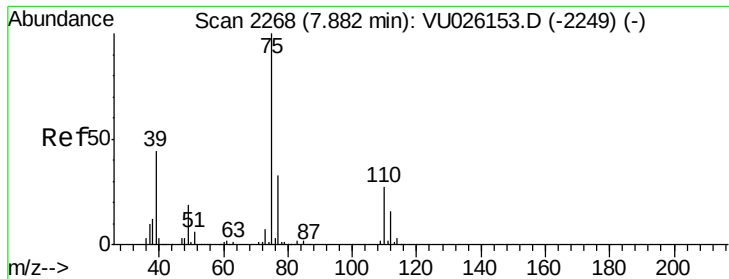
Tgt Ion: 43 Resp: 10618
Ion Ratio Lower Upper
43 100
58 39.8 31.8 47.8
100 15.4 12.2 18.2



#42
Toluene
Concen: 2.179 ug/L
RT: 7.64 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU026166.D
Acq: 15 Aug 2018 23:38

Tgt Ion: 91 Resp: 16232
Ion Ratio Lower Upper
91 100
92 60.4 40.0 74.4





#44

trans-1,3-Dichloropropene

Concen: 1.993 ug/L

RT: 7.89 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA_U

ClientSampled :

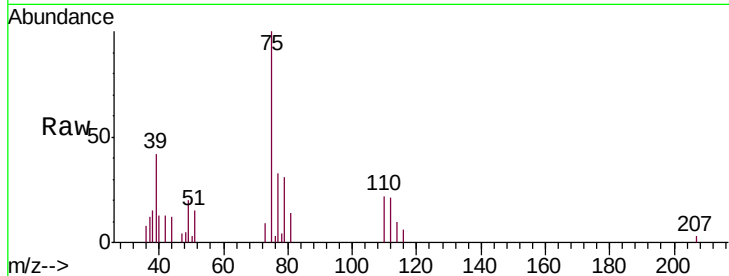
MDL04

Tgt Ion: 75 Resp: 5583

Ion Ratio Lower Upper

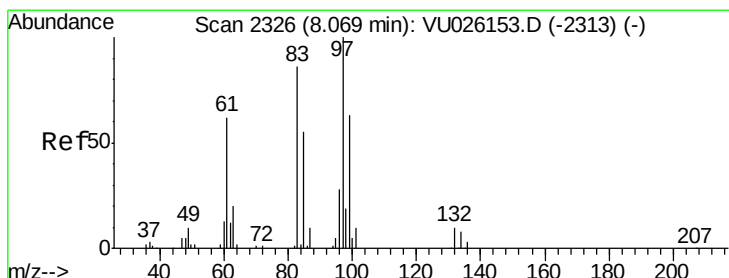
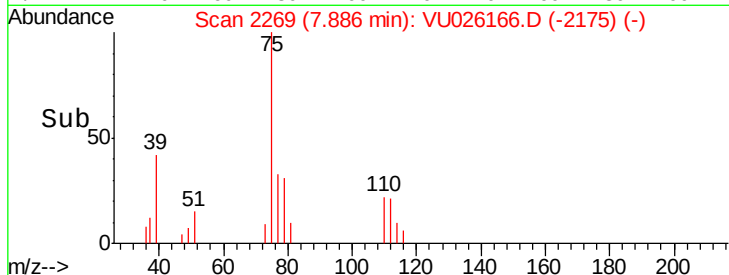
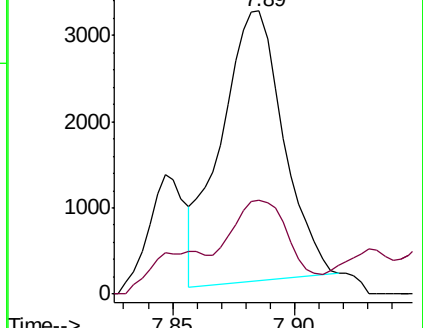
75 100

77 33.1 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VU026153.D (-2249) (-)

Ion 77.00 (76.70 to 77.70): VU026153.D (-2249) (-)



#45

1,1,2-Trichloroethane

Concen: 1.205 ug/L

RT: 8.07 min Scan# 2325

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Tgt Ion: 97 Resp: 2238

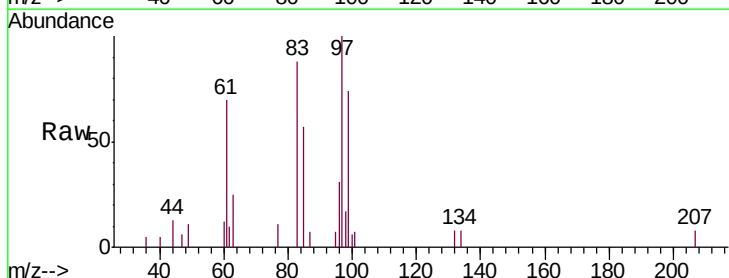
Ion Ratio Lower Upper

97 100

99 74.4 43.3 80.5

83 88.3 58.4 108.6

85 57.4 39.0 72.4

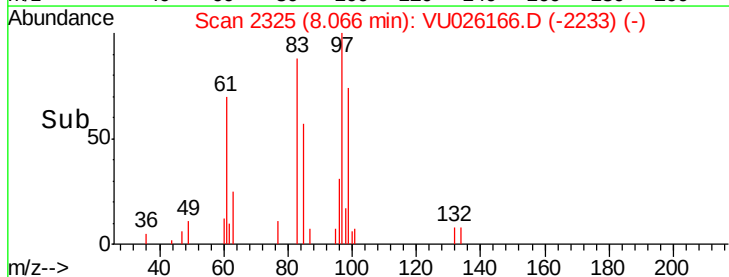
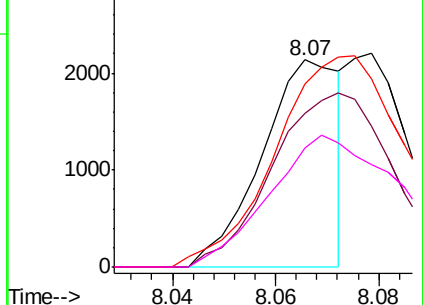


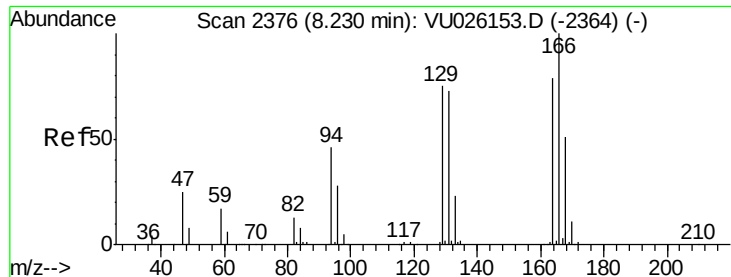
Abundance Ion 97.00 (96.70 to 97.70): VU026153.D (-2313) (-)

Ion 99.00 (98.70 to 99.70): VU026153.D (-2313) (-)

Ion 83.00 (82.70 to 83.70): VU026153.D (-2313) (-)

Ion 85.00 (84.70 to 85.70): VU026153.D (-2313) (-)

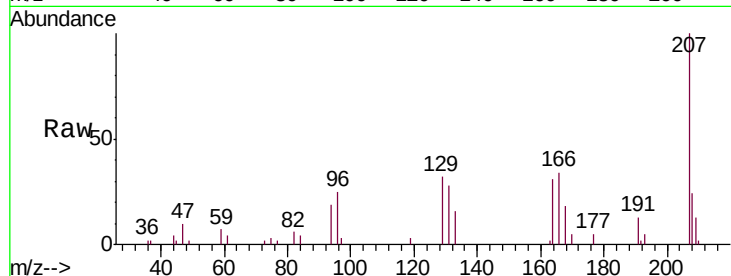




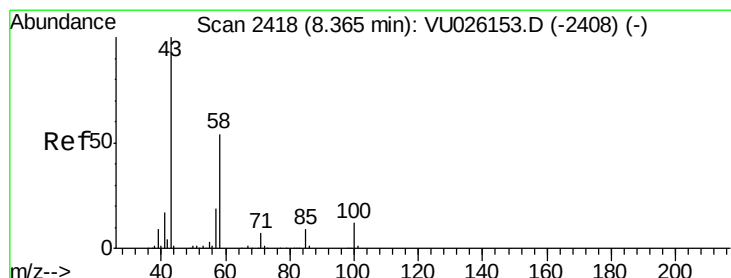
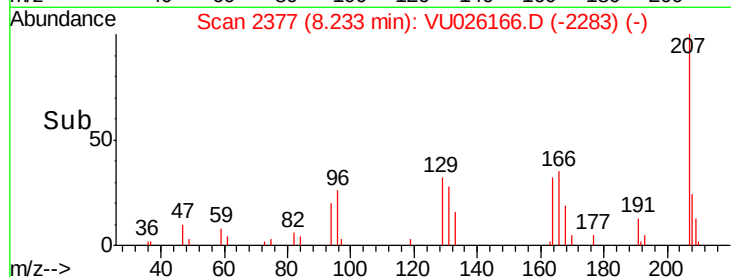
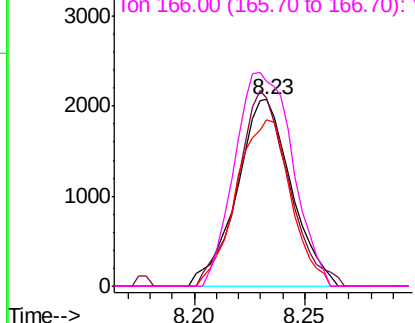
#46
Tetrachloroethene
Concen: 2.264 ug/L
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU026166.D
Acq: 15 Aug 2018 23:38

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion:164 Resp: 3567
Ion Ratio Lower Upper
164 100
129 101.1 65.7 121.9
131 89.1 62.0 115.2
166 109.7 88.9 165.1

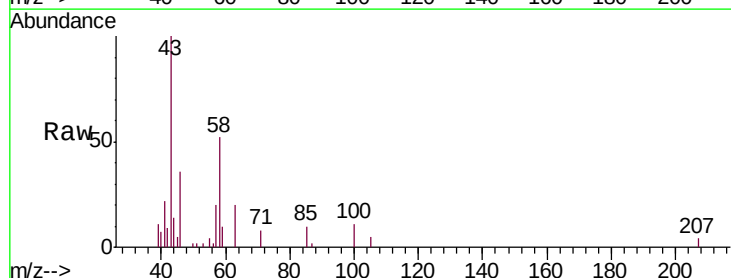


Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

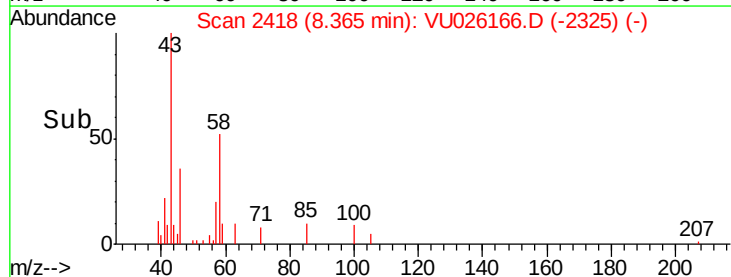
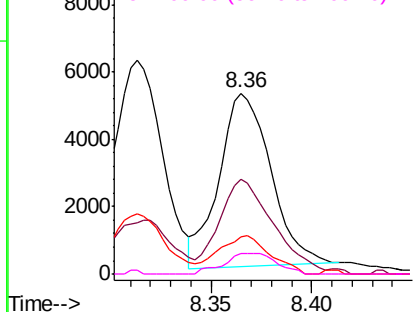


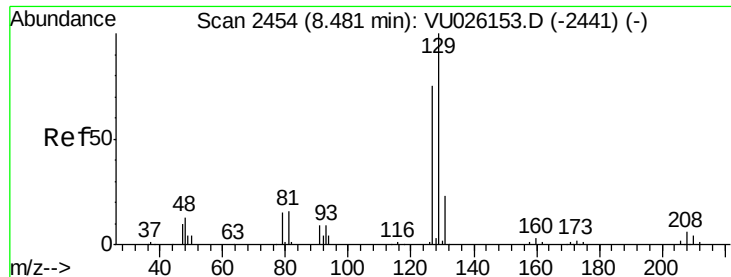
#48
2-Hexanone
Concen: 4.874 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU026166.D
Acq: 15 Aug 2018 23:38

Tgt Ion: 43 Resp: 9279
Ion Ratio Lower Upper
43 100
58 56.6 42.9 64.3
57 22.0 15.1 22.7
100 10.8 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#49

Dibromochloromethane

Concen: 2.197 ug/L

RT: 8.48 min Scan# 2454

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA_U

ClientSampleId :

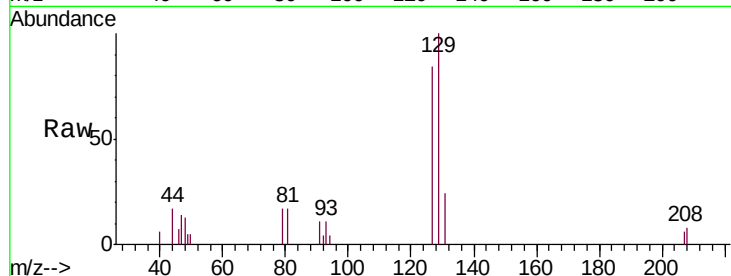
MDL04

Tgt Ion:129 Resp: 4913

Ion Ratio Lower Upper

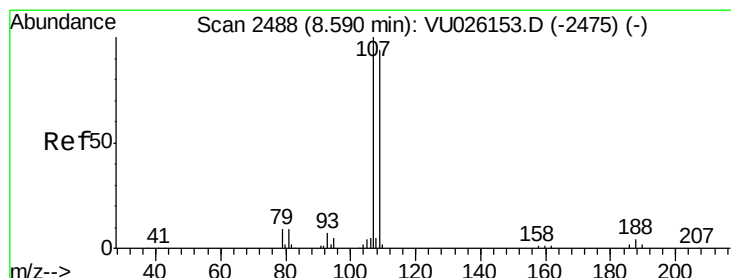
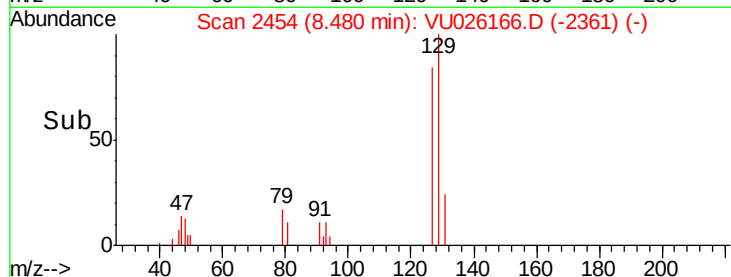
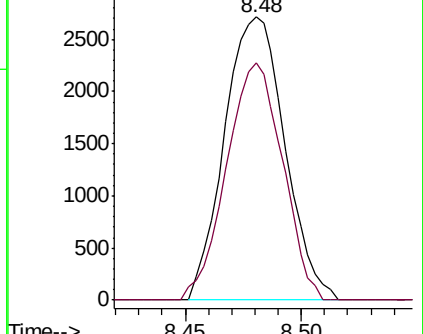
129 100

127 83.6 54.6 101.4



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 2.351 ug/L

RT: 8.59 min Scan# 2488

Delta R.T. -0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

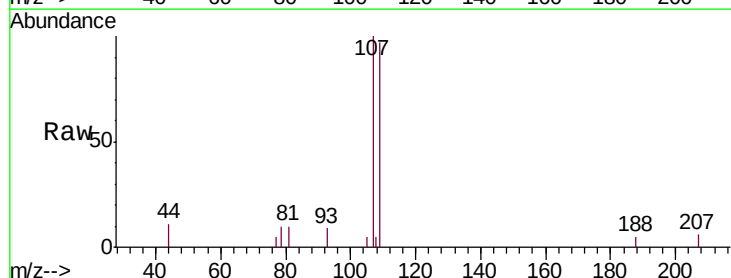
Tgt Ion:107 Resp: 4534

Ion Ratio Lower Upper

107 100

109 97.2 66.1 122.7

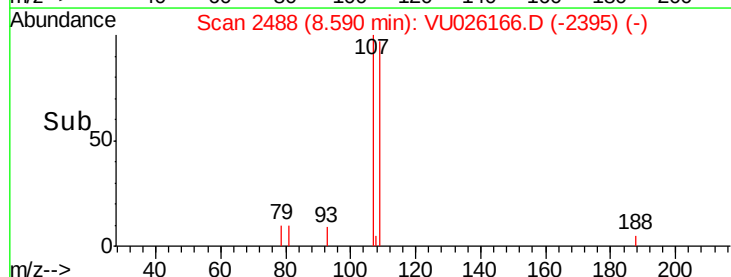
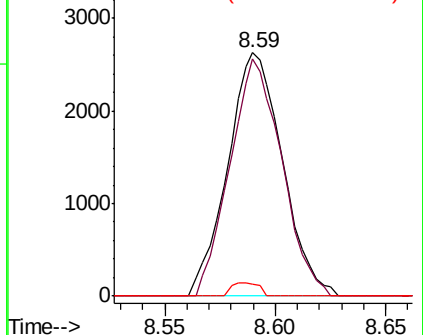
188 5.1 3.2 4.8#

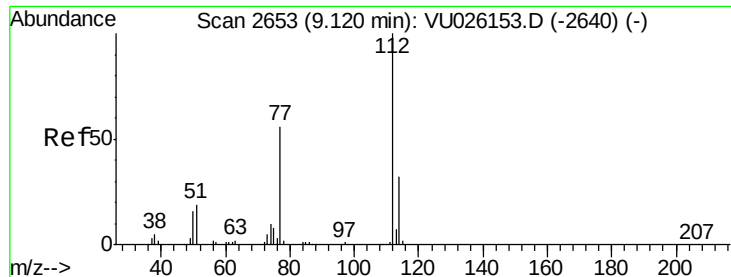


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

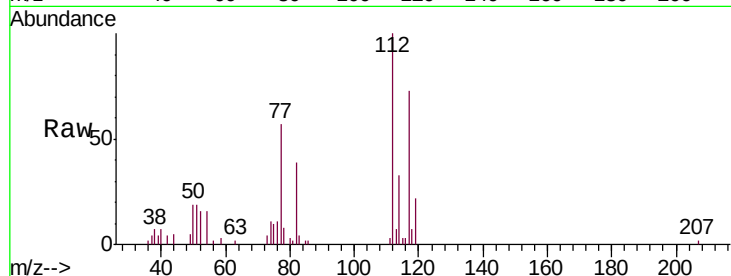




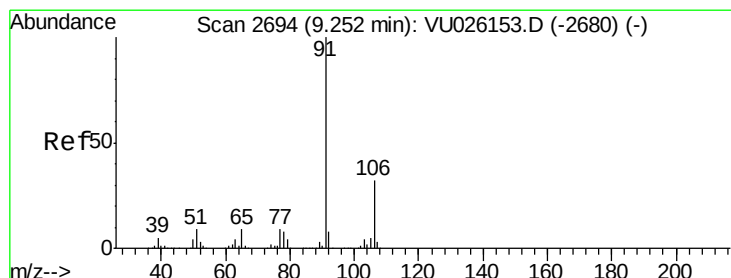
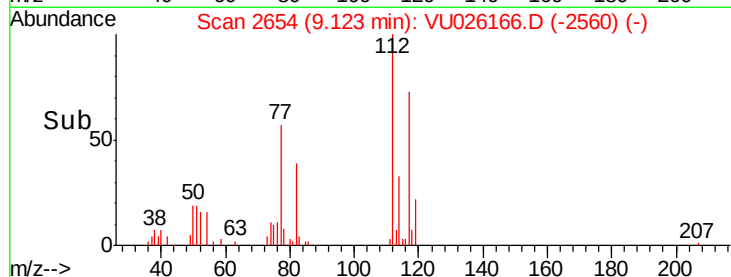
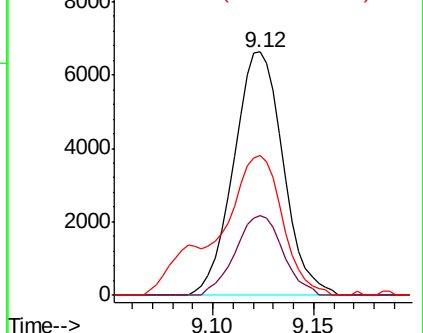
#51
Chlorobenzene
Concen: 2.229 ug/L
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU026166.D
Acq: 15 Aug 2018 23:38

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion: 112 Resp: 11345
Ion Ratio Lower Upper
112 100
114 32.7 22.5 41.9
77 57.3 45.0 67.4

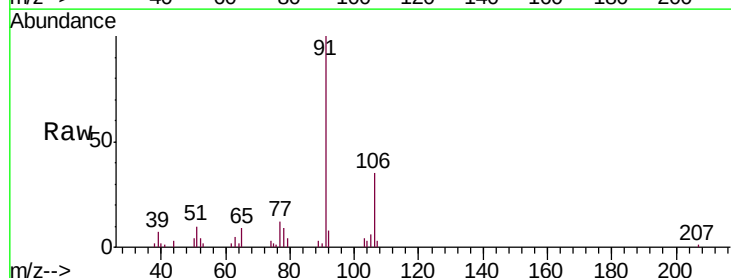


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

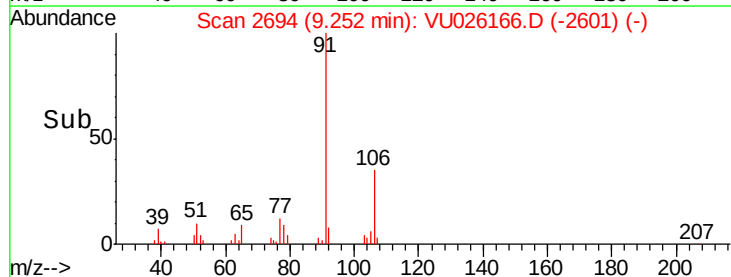
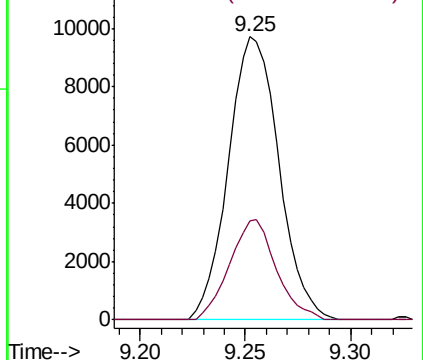


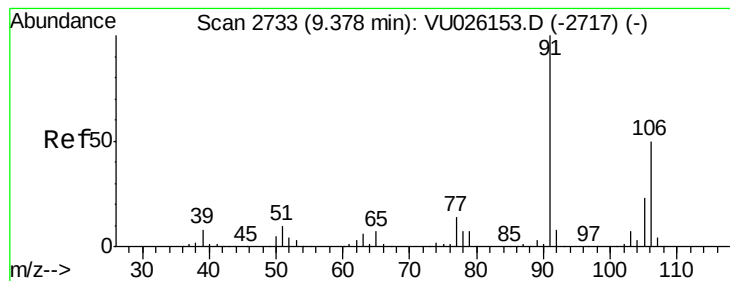
#52
Ethylbenzene
Concen: 1.996 ug/L
RT: 9.25 min Scan# 2694
Delta R.T. -0.00 min
Lab File: VU026166.D
Acq: 15 Aug 2018 23:38

Tgt Ion: 91 Resp: 16191
Ion Ratio Lower Upper
91 100
106 34.9 22.3 41.5



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





#53

m,p-Xylene

Concen: 1.800 ug/L

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA_U

ClientSampleId :

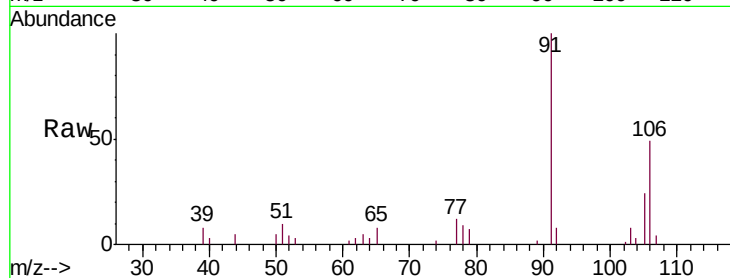
MDL04

Tgt Ion:106 Resp: 5627

Ion Ratio Lower Upper

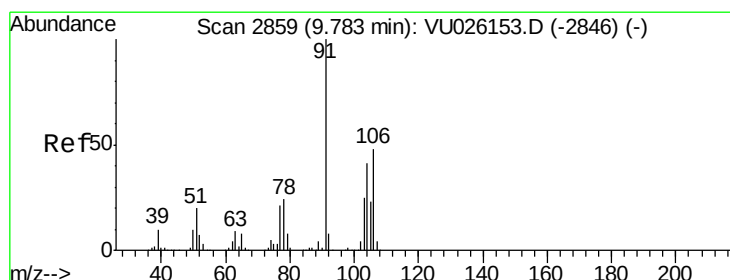
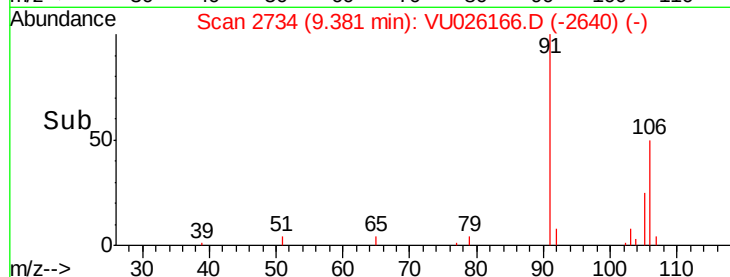
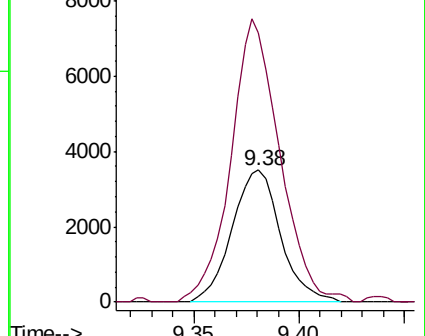
106 100

91 203.9 139.2 258.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 1.901 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU026166.D

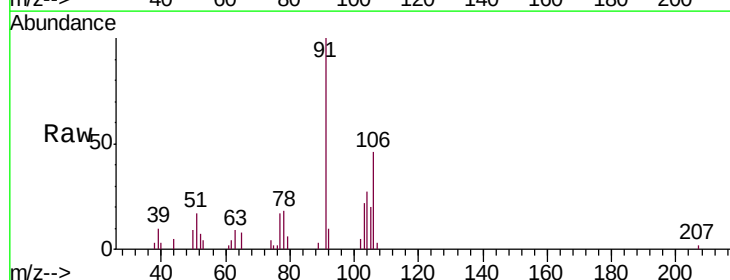
Acq: 15 Aug 2018 23:38

Tgt Ion:106 Resp: 5931

Ion Ratio Lower Upper

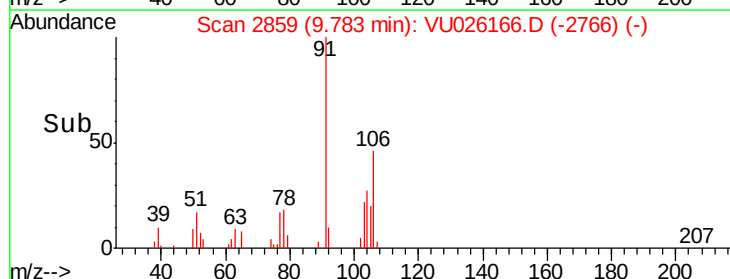
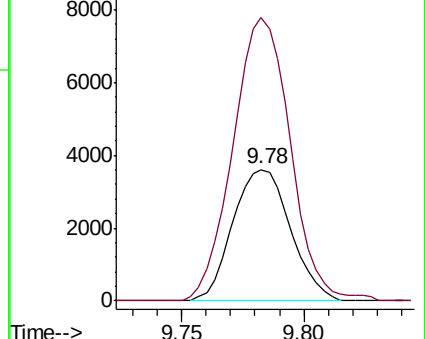
106 100

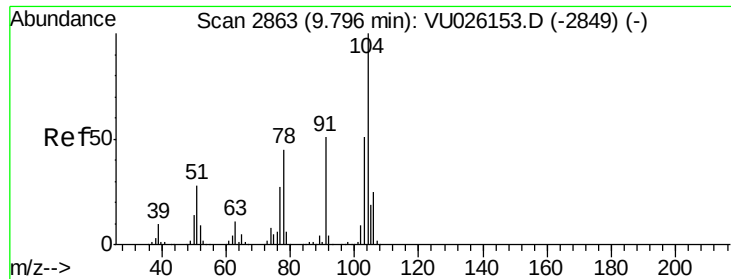
91 215.5 148.0 274.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#55

Styrene

Concen: 1.665 ug/L

RT: 9.80 min Scan# 2864

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA_U

ClientSampleId :

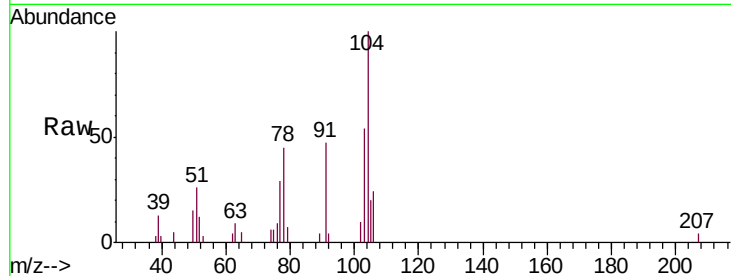
MDL04

Tgt Ion:104 Resp: 8650

Ion Ratio Lower Upper

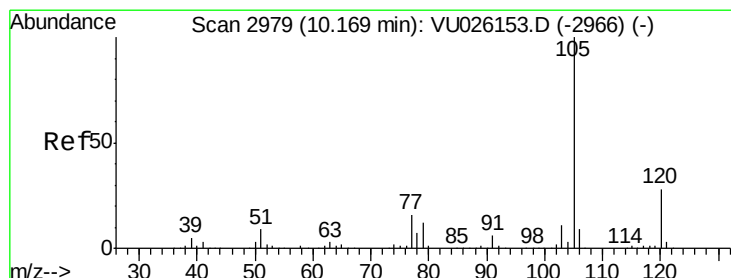
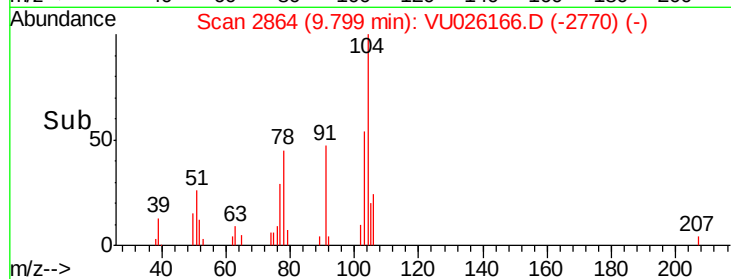
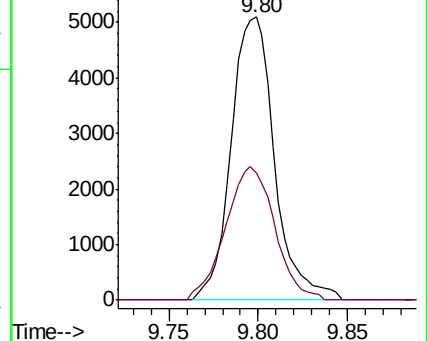
104 100

78 45.0 30.9 57.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 1.726 ug/L

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

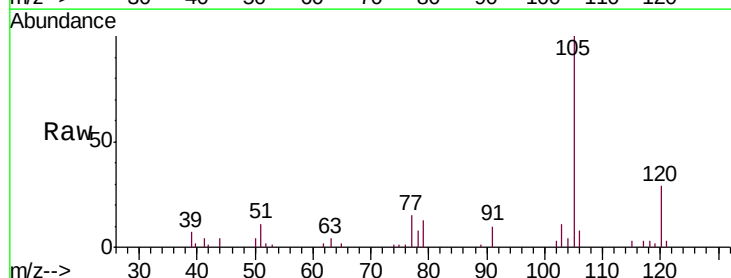
Tgt Ion:105 Resp: 13823

Ion Ratio Lower Upper

105 100

120 27.4 21.5 32.3

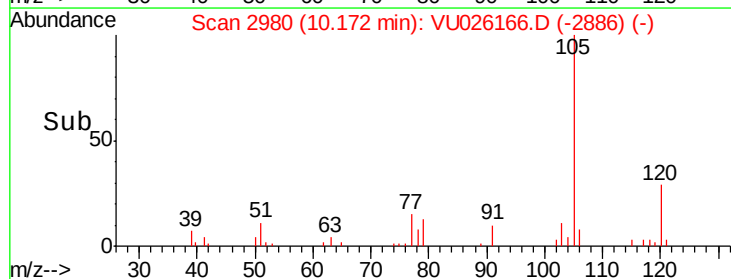
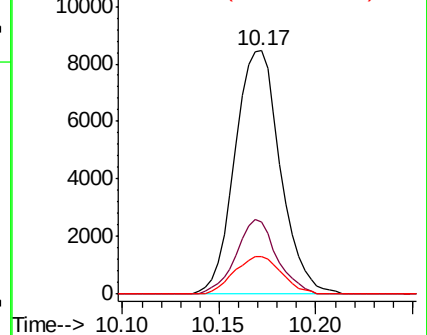
77 16.0 12.3 18.5

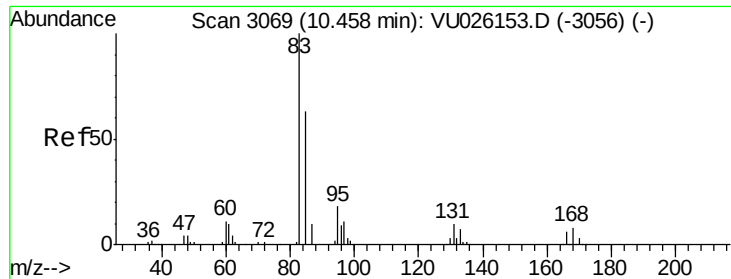


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

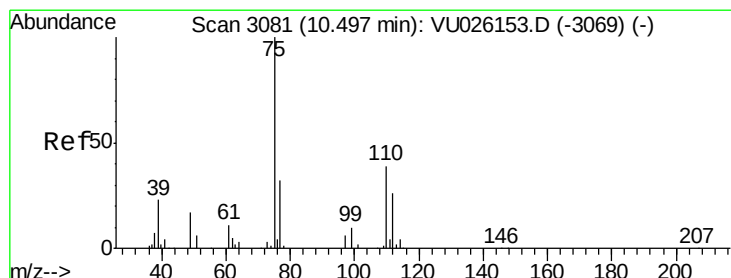
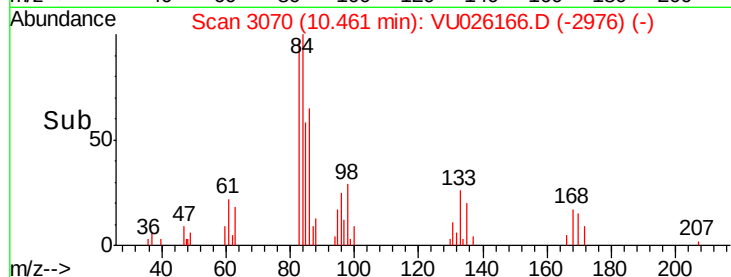
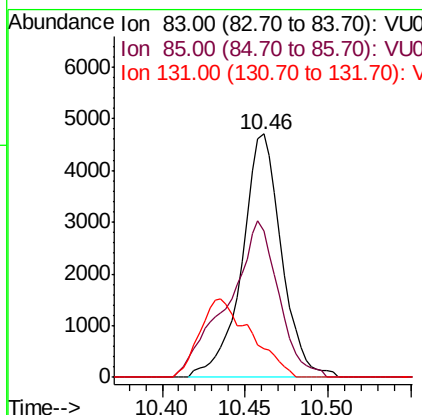
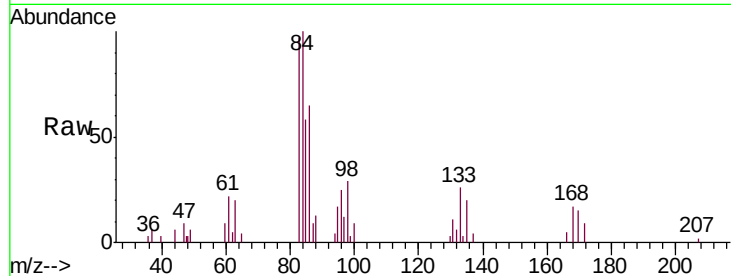




#58
 1,1,2,2-Tetrachloroethane
 Concen: 2.513 ug/L
 RT: 10.46 min Scan# 3070
 Delta R.T. 0.00 min
 Lab File: VU026166.D
 Acq: 15 Aug 2018 23:38

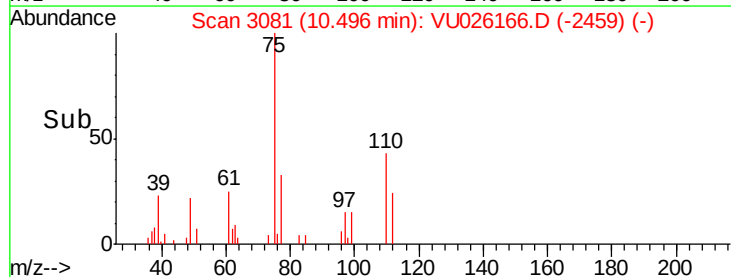
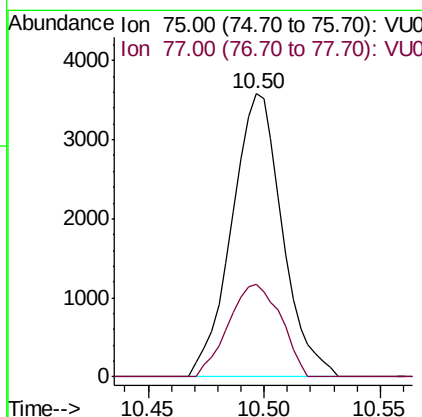
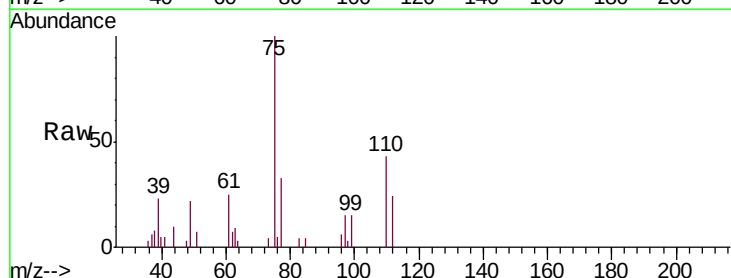
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

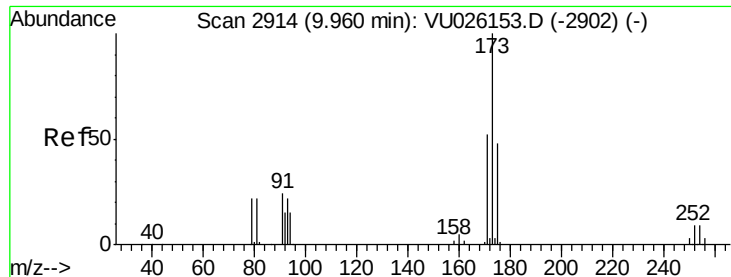
Tgt Ion: 83 Resp: 7793
 Ion Ratio Lower Upper
 83 100
 85 60.0 45.0 83.6
 131 11.5 8.4 12.6



#59
 1,2,3-Trichloropropane
 Concen: 2.250 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU026166.D
 Acq: 15 Aug 2018 23:38

Tgt Ion: 75 Resp: 5429
 Ion Ratio Lower Upper
 75 100
 77 33.9 26.1 39.1





#61

Bromoform

Concen: 2.330 ug/L

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA_U

ClientSampleId :

MDL04

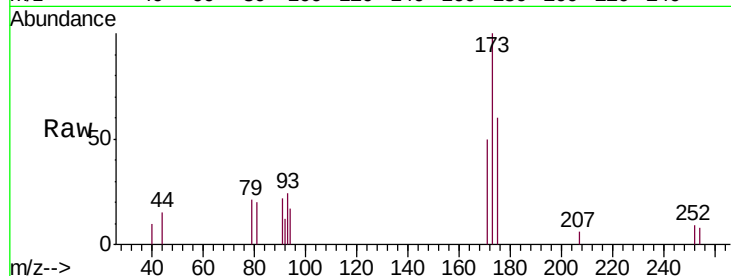
Tgt Ion:173 Resp: 3263

Ion Ratio Lower Upper

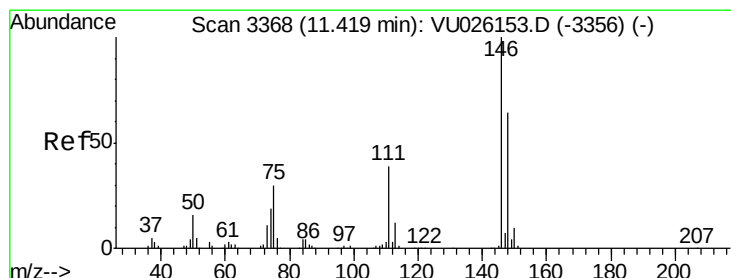
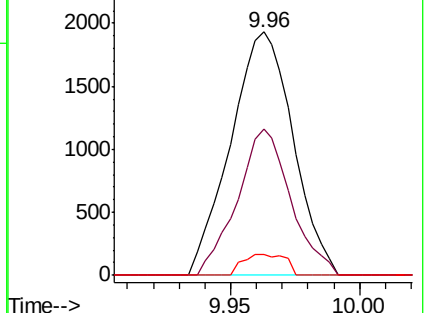
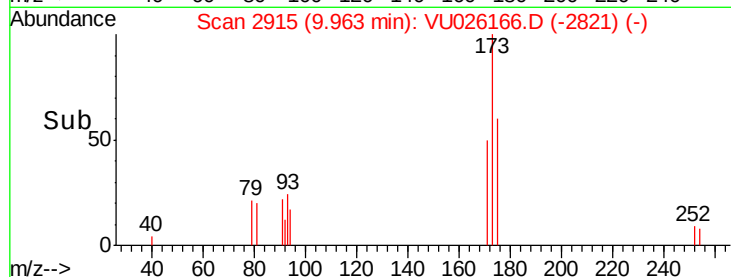
173 100

175 51.5 38.8 58.2

254 4.1 7.3 10.9#



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 2.275 ug/L

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

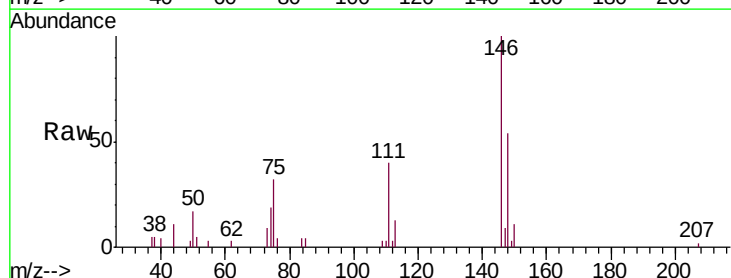
Tgt Ion:146 Resp: 7301

Ion Ratio Lower Upper

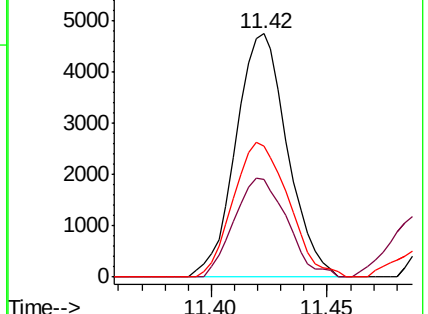
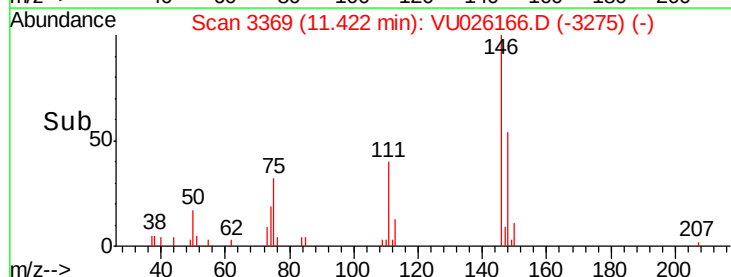
146 100

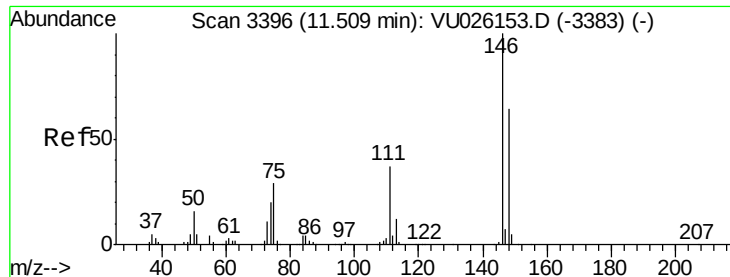
111 40.1 26.7 49.7

148 53.9 44.1 81.9



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

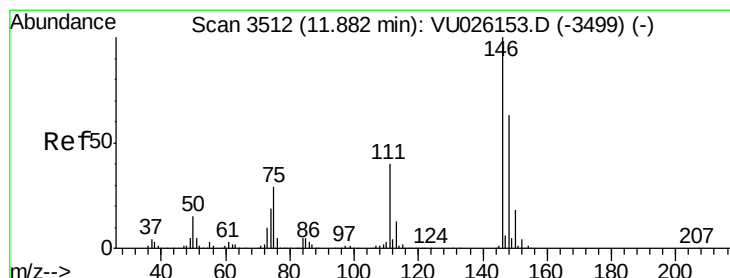
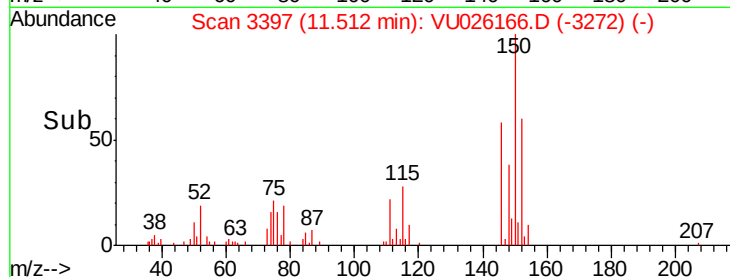
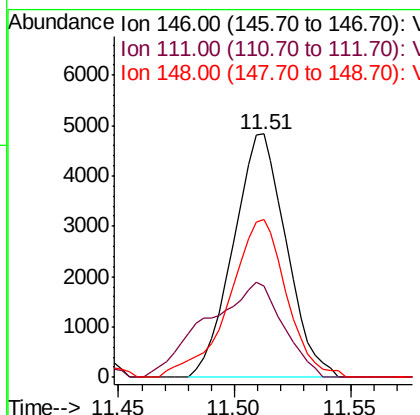
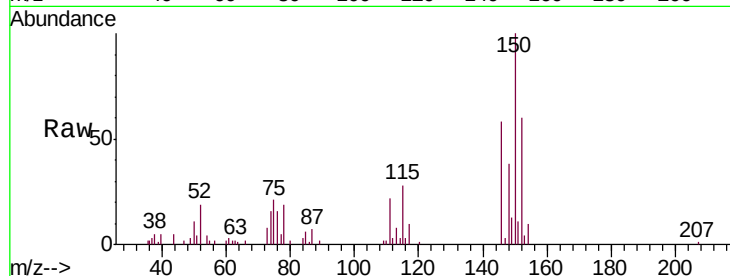




#63
 1,4-Dichlorobenzene
 Concen: 2.322 ug/L
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU026166.D
 Acq: 15 Aug 2018 23:38

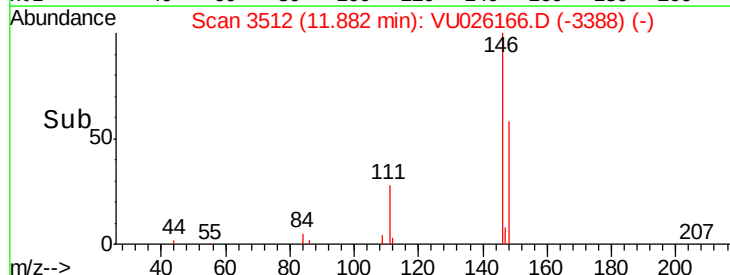
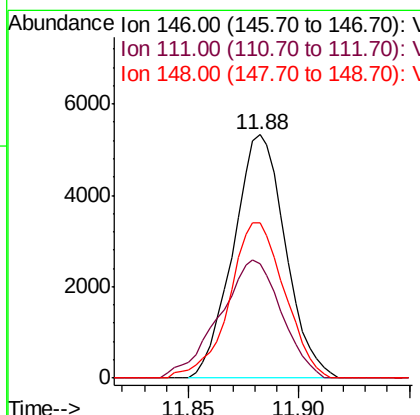
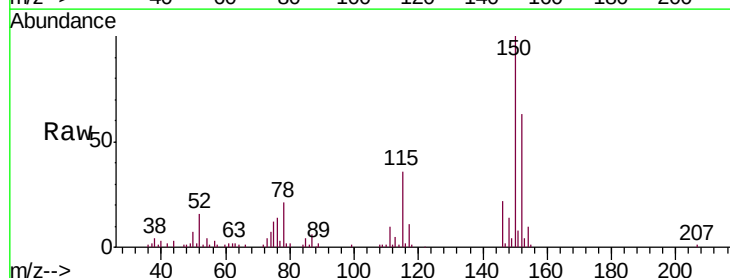
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

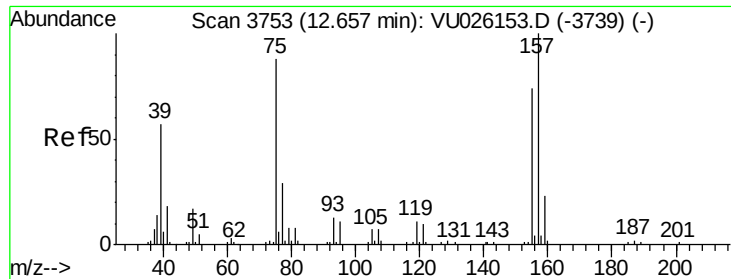
Tgt Ion:146 Resp: 7686
 Ion Ratio Lower Upper
 146 100
 111 37.3 27.5 51.1
 148 65.0 44.8 83.2



#65
 1,2-Dichlorobenzene
 Concen: 2.551 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU026166.D
 Acq: 15 Aug 2018 23:38

Tgt Ion:146 Resp: 8749
 Ion Ratio Lower Upper
 146 100
 111 47.0 32.7 49.1
 148 63.7 51.4 77.2

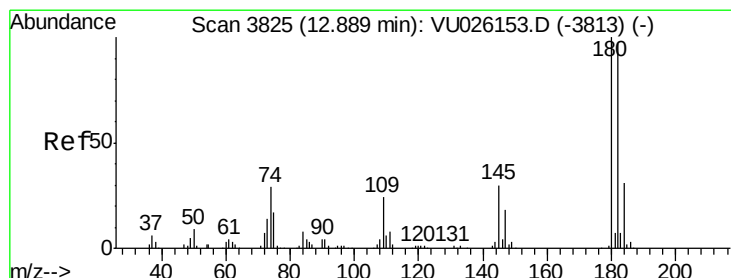
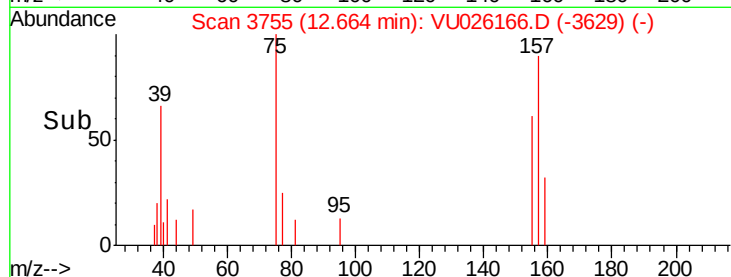
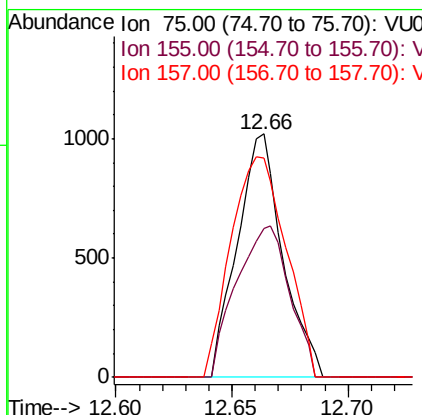
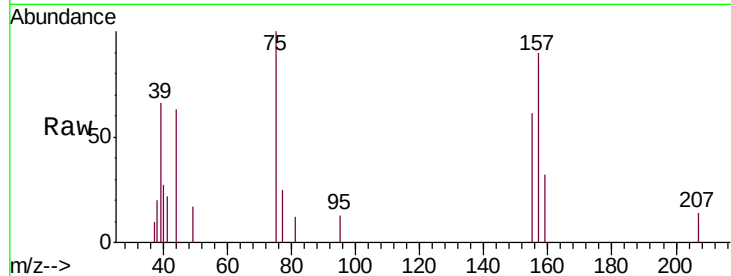




#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.560 ug/L
 RT: 12.66 min Scan# 3755
 Delta R.T. 0.01 min
 Lab File: VU026166.D
 Acq: 15 Aug 2018 23:38

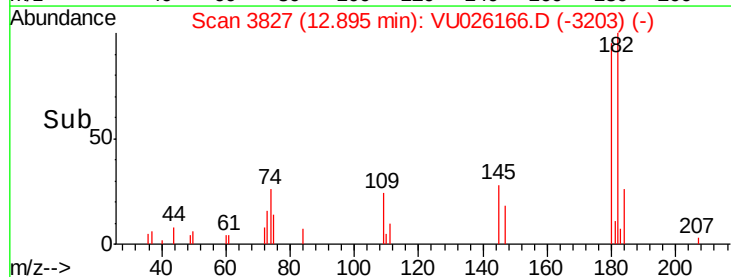
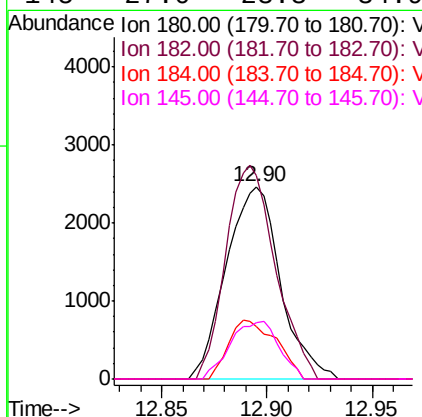
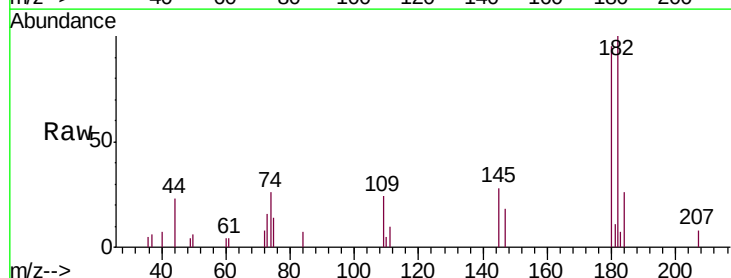
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

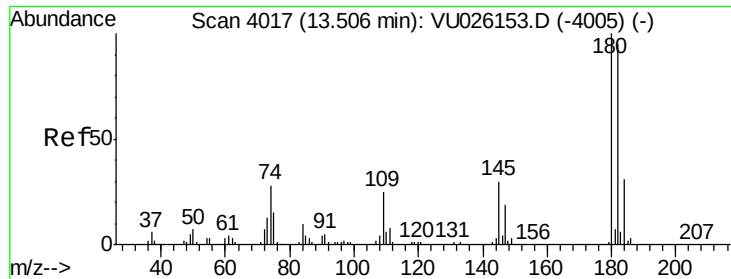
Tgt Ion: 75 Resp: 1392
 Ion Ratio Lower Upper
 75 100
 155 61.0 68.2 102.2#
 157 89.8 90.5 135.7#



#67
 1,3,5-Trichlorobenzene
 Concen: 1.855 ug/L
 RT: 12.90 min Scan# 3827
 Delta R.T. 0.01 min
 Lab File: VU026166.D
 Acq: 15 Aug 2018 23:38

Tgt Ion: 180 Resp: 4396
 Ion Ratio Lower Upper
 180 100
 182 101.4 75.6 113.4
 184 26.9 24.3 36.5
 145 27.0 23.3 34.9





#68

1,2,4-trichlorobenzene

Concen: 1.440 ug/L

RT: 13.51 min Scan# 4018

Delta R.T. 0.00 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

Instrument :

MSVOA_U

ClientSampleId :

MDL04

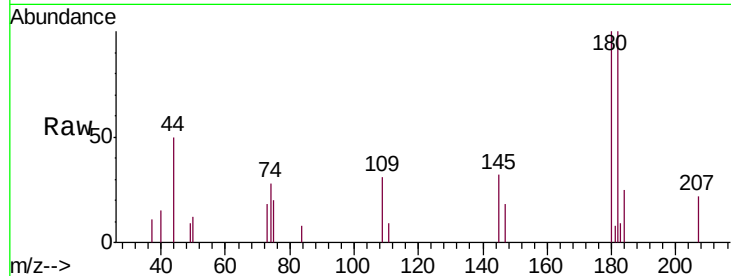
Tgt Ion:180 Resp: 2585

Ion Ratio Lower Upper

180 100

182 104.4 76.8 115.2

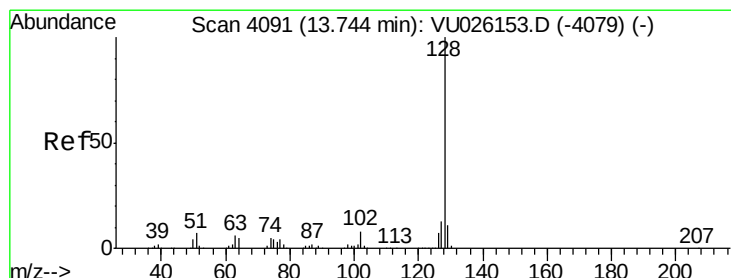
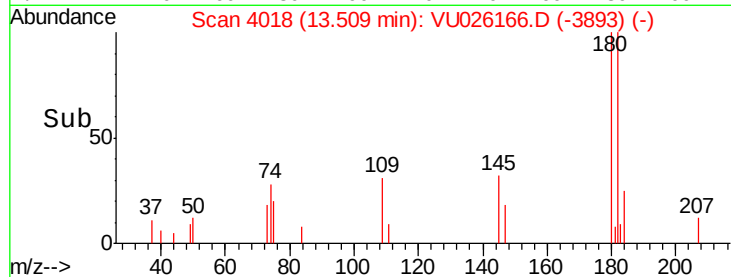
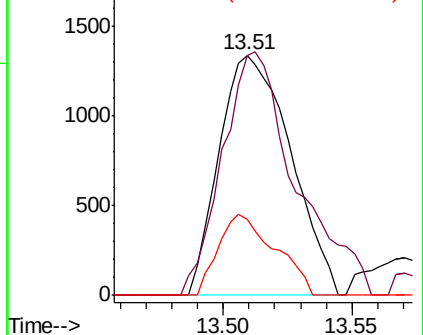
145 26.7 23.8 35.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#69

Naphthalene

Concen: 1.313 ug/L

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU026166.D

Acq: 15 Aug 2018 23:38

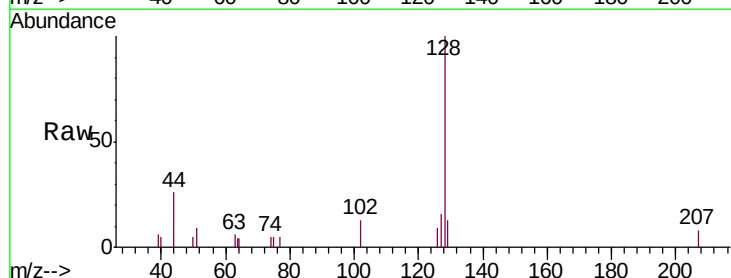
Tgt Ion:128 Resp: 6710

Ion Ratio Lower Upper

128 100

127 9.6 10.3 15.5#

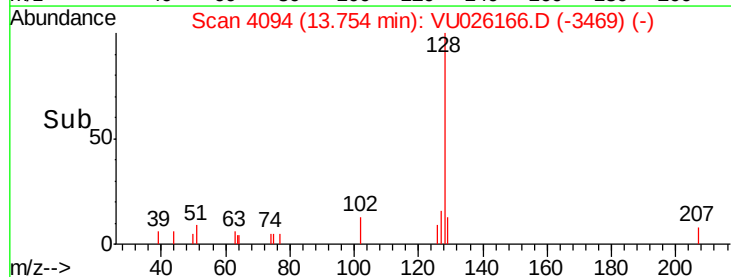
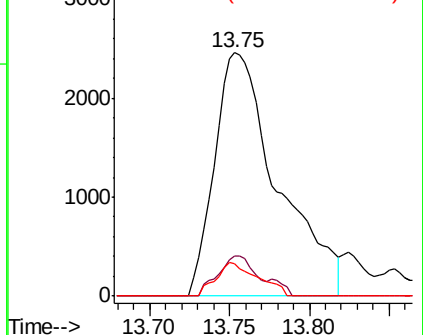
129 9.1 8.6 13.0

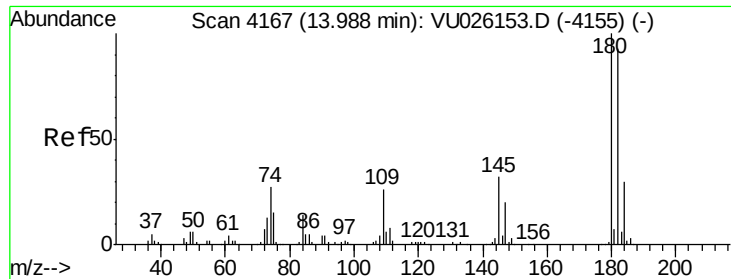


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 1.315 ug/L
 RT: 13.99 min Scan# 4169
 Delta R.T. 0.01 min
 Lab File: VU026166.D
 Acq: 15 Aug 2018 23:38

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tgt Ion:180 Resp: 2531
 Ion Ratio Lower Upper
 180 100
 182 106.6 77.1 115.7
 145 31.4 25.1 37.7

