

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072018\
 Data File : VU025546.D
 Acq On : 20 Jul 2018 16:57
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 21 01:31:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jul 21 01:28:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	338851	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	319076	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	164212	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	89589	46.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.62%
7) Chloroethane-d5	1.68	69	74813	46.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.76%
11) 1,1-Dichloroethene-d2	2.27	63	194035	48.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.36%
21) 2-Butanone-d5	4.18	46	155313	104.00	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.00%
24) Chloroform-d	4.65	84	209583	48.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.28%
26) 1,2-Dichloroethane-d4	5.31	65	138925	48.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.50%
32) Benzene-d6	5.35	84	395357	48.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.62%
36) 1,2-Dichloropropane-d6	6.34	67	128254	48.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.28%
41) Toluene-d8	7.57	98	385848	49.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.34%
43) trans-1,3-Dichloropropene-	7.85	79	65664	48.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.50%
47) 2-Hexanone-d5	8.31	63	115512	104.62	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.62%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	181161	49.12	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.24%
64) 1,2-Dichlorobenzene-d4	11.86	152	162908	48.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.90%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.21	85	156566	46.894	ug/L	99
3) Chloromethane	1.33	50	120288	49.889	ug/L	99
5) Vinyl chloride	1.41	62	124664	47.140	ug/L	98
6) Bromomethane	1.63	94	49613	53.947	ug/L	98
8) Chloroethane	1.70	64	73312	47.080	ug/L	98
9) Trichlorofluoromethane	1.89	101	179891	47.768	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	104513	49.559	ug/L	99
12) 1,1-Dichloroethene	2.29	96	93760	49.030	ug/L	96
13) Acetone	2.32	43	132754	75.733	ug/L	99
14) Carbon disulfide	2.48	76	288856	46.389	ug/L	100
15) Methyl Acetate	2.62	43	120949	49.913	ug/L	100
16) Methylene chloride	2.71	84	113538	47.662	ug/L	98
17) trans-1,2-Dichloroethene	2.99	96	103773	47.132	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	352301	49.131	ug/L	100
19) 1,1-Dichloroethane	3.45	63	199984	47.749	ug/L	100
20) cis-1,2-Dichloroethene	4.23	96	120670	48.554	ug/L	96
22) 2-Butanone	4.27	43	179369	91.916	ug/L	99

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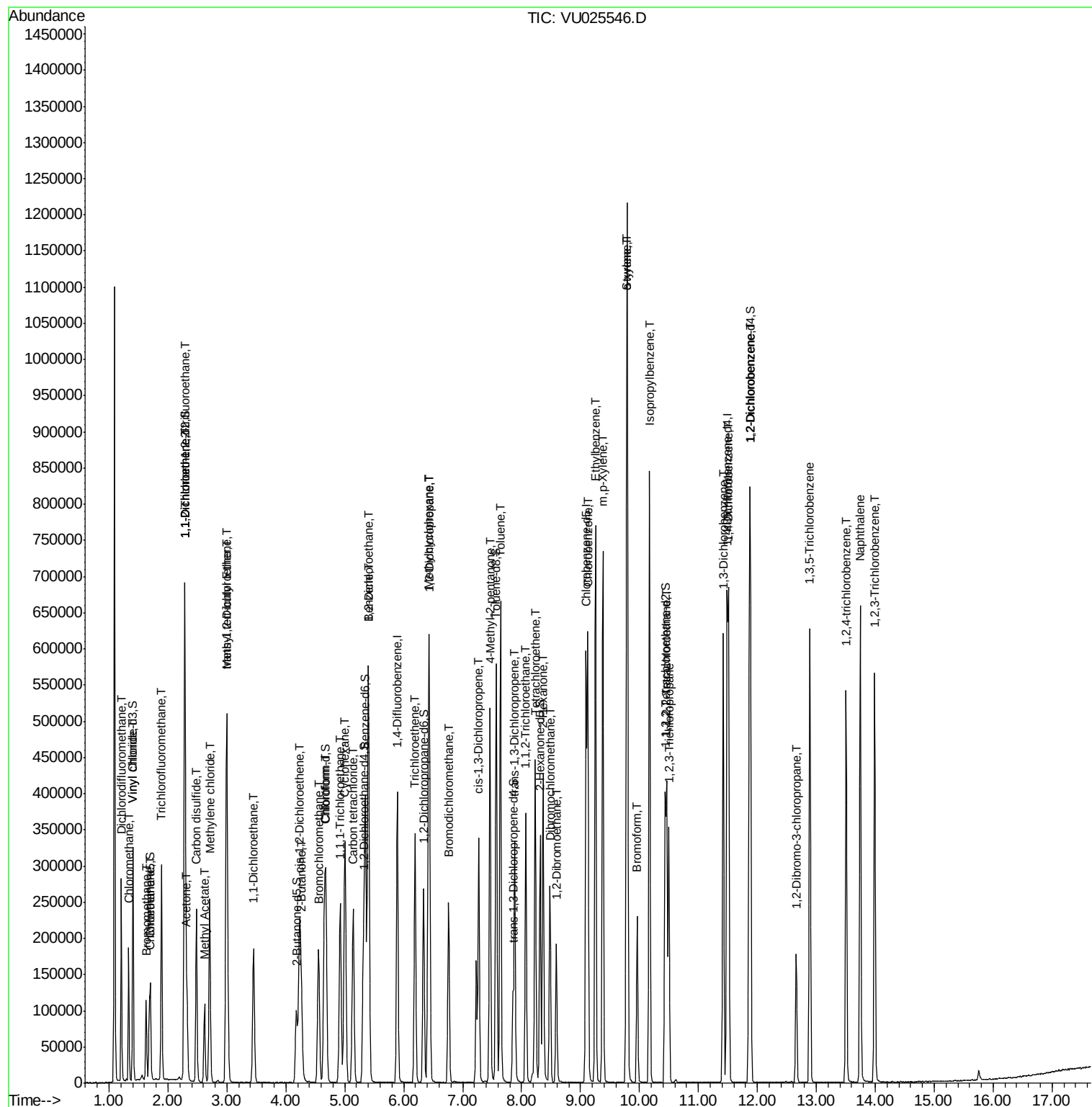
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	65074	49.608	ug/L	96
25) Chloroform	4.68	83	213049	48.341	ug/L	98
27) 1,2-Dichloroethane	5.41	62	175468	48.812	ug/L	100
29) Cyclohexane	5.00	56	177084	47.904	ug/L	100
30) 1,1,1-Trichloroethane	4.92	97	192927	48.320	ug/L	99
31) Carbon tetrachloride	5.14	117	176870	47.907	ug/L	99
33) Benzene	5.39	78	444131	48.444	ug/L	100
34) Trichloroethene	6.19	95	117874	48.457	ug/L	96
35) Methylcyclohexane	6.42	83	186830	47.633	ug/L	99
37) 1,2-Dichloropropane	6.44	63	119892	47.855	ug/L	99
38) Bromodichloromethane	6.76	83	159906	48.410	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	191496	49.253	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	335929	102.106	ug/L	100
42) Toluene	7.64	91	481451	48.696	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	179945	49.087	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	114907	47.816	ug/L	99
46) Tetrachloroethene	8.23	164	101813	48.278	ug/L	99
48) 2-Hexanone	8.36	43	268734	96.666	ug/L	100
49) Dibromochloromethane	8.48	129	137711	48.852	ug/L	98
50) 1,2-Dibromoethane	8.59	107	125487	48.470	ug/L	99
51) Chlorobenzene	9.12	112	319000	47.926	ug/L	99
52) Ethylbenzene	9.25	91	533011	48.845	ug/L	99
53) m,p-Xylene	9.38	106	206669	49.444	ug/L	98
54) o-xylene	9.78	106	207713	48.974	ug/L	99
55) Styrene	9.80	104	345574	50.027	ug/L	99
56) Isopropylbenzene	10.17	105	540919	49.419	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	188600	48.656	ug/L	98
59) 1,2,3-Trichloropropane	10.50	75	141993	48.253	ug/L	100
61) Bromoform	9.96	173	102926	48.457	ug/L	97
62) 1,3-Dichlorobenzene	11.42	146	253097	48.726	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	253675	47.843	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	266141	48.907	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	41965	49.034	ug/L	95
67) 1,3,5-Trichlorobenzene	12.89	180	197110	49.161	ug/L	100
68) 1,2,4-trichlorobenzene	13.51	180	169628	50.339	ug/L	98
69) Naphthalene	13.74	128	532902	52.587	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	180422	50.649	ug/L	100

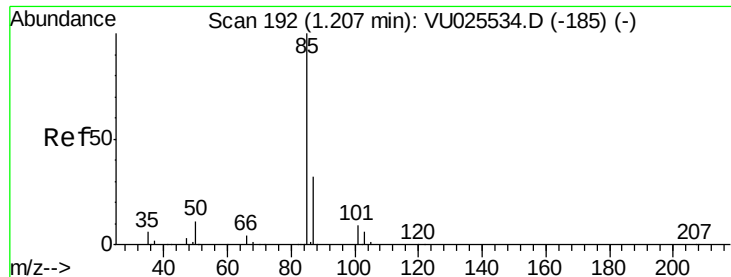
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 46.894 ug/L

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

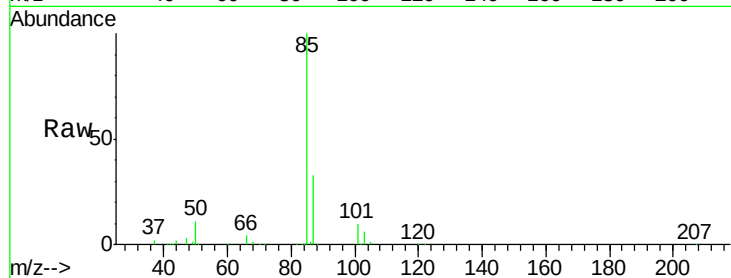
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 156566

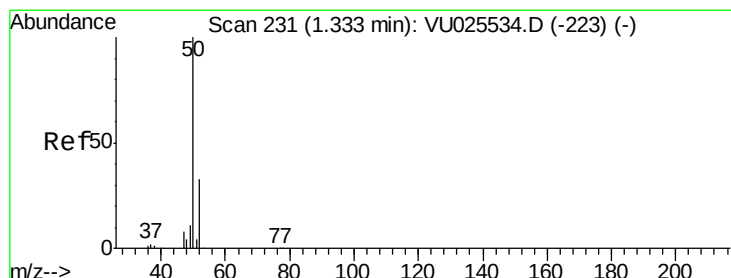
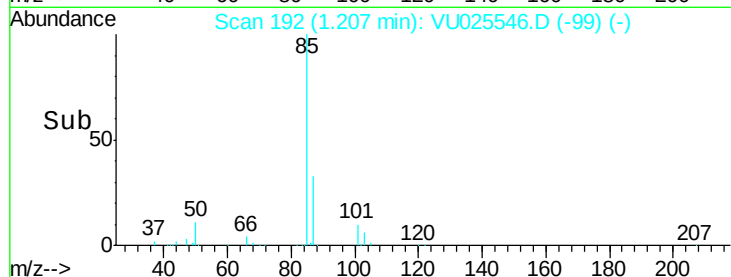
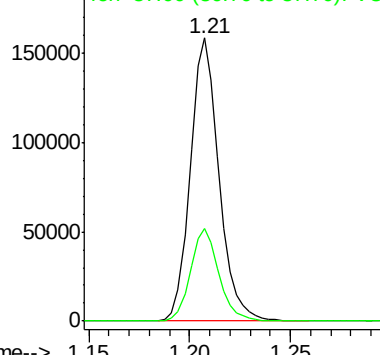
Ion Ratio Lower Upper

85 100

87 32.5 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 49.889 ug/L

RT: 1.33 min Scan# 231

Delta R.T. -0.00 min

Lab File: VU025546.D

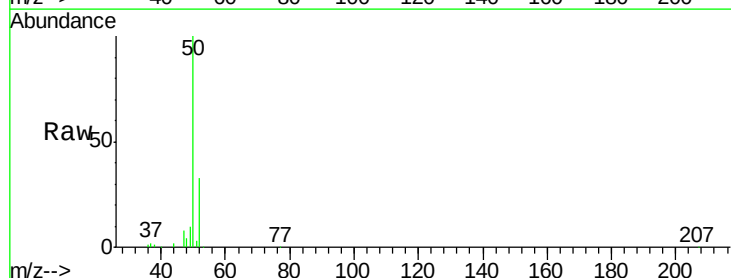
Acq: 20 Jul 2018 16:57

Tgt Ion: 50 Resp: 120288

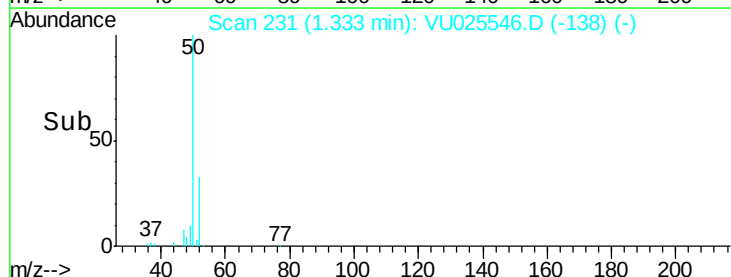
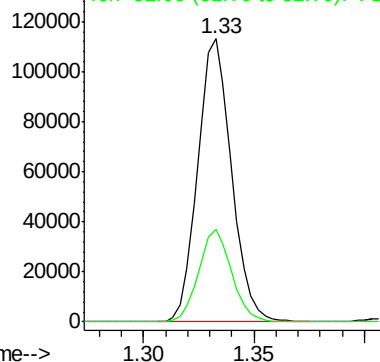
Ion Ratio Lower Upper

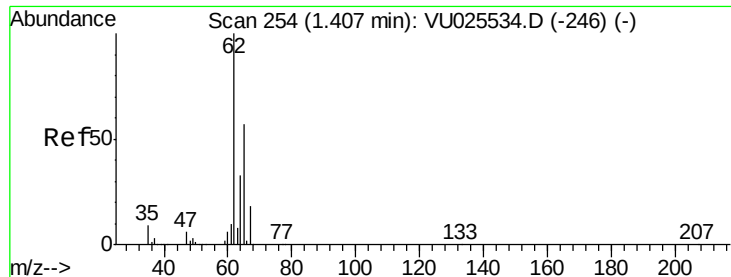
50 100

52 32.6 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU0
Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 47.140 ug/L

RT: 1.41 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Instrument :

MSVOA_U

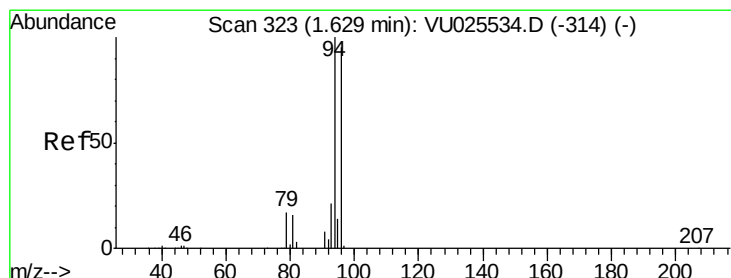
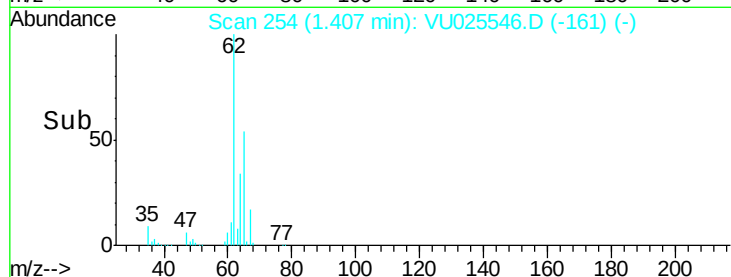
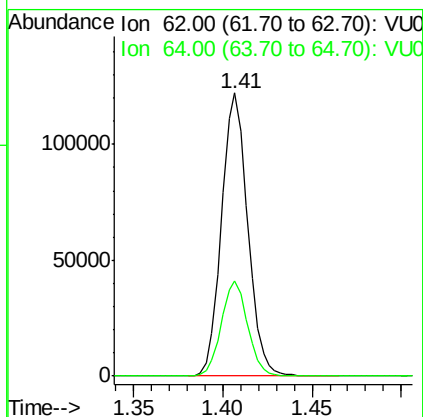
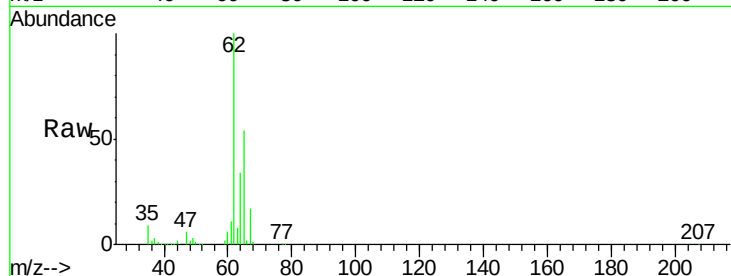
ClientSampleId :

Tot Ion: 62 Resp: 124664

Ion Ratio Lower Upper

62 100

64 33.5 22.7 42.1



#6

Bromomethane

Concen: 53.947 ug/L

RT: 1.63 min Scan# 323

Delta R.T. -0.00 min

Lab File: VU025546.D

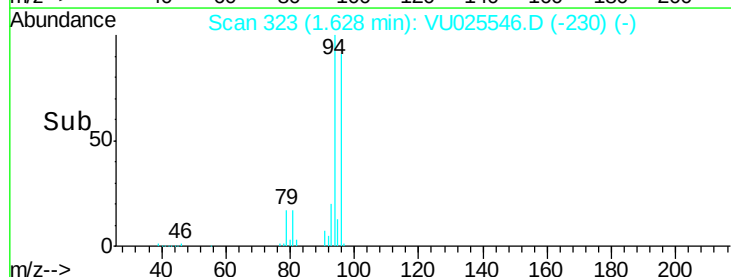
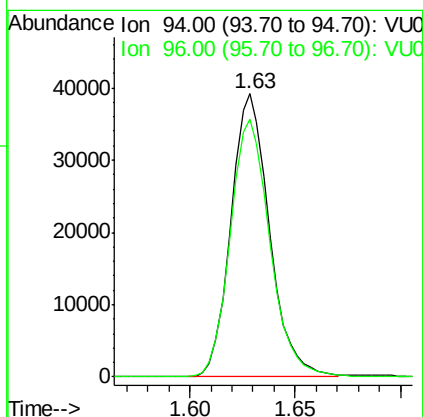
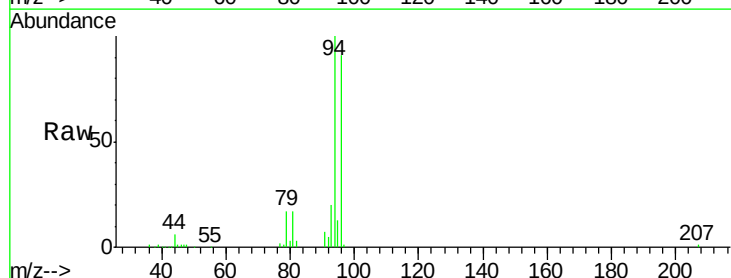
Acq: 20 Jul 2018 16:57

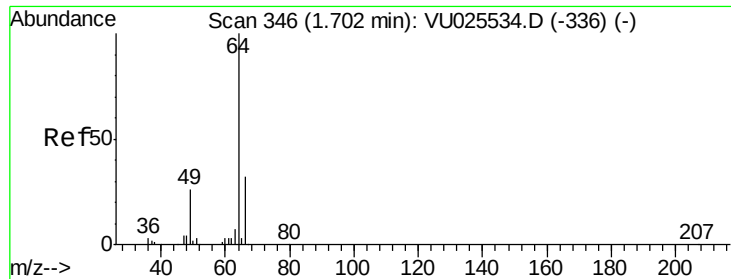
Tgt Ion: 94 Resp: 49613

Ion Ratio Lower Upper

94 100

96 91.1 62.4 115.8





#8

Chloroethane

Concen: 47.080 ug/L

RT: 1.70 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

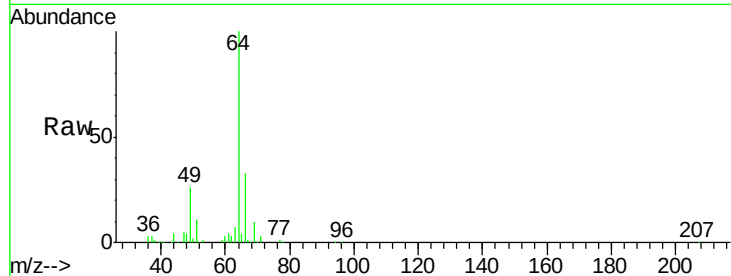
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 73312

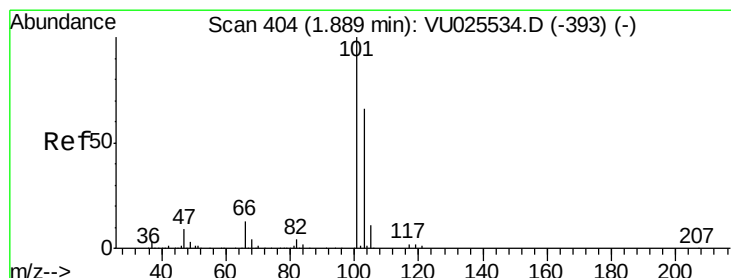
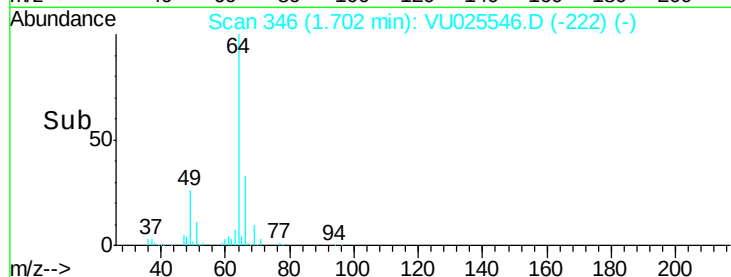
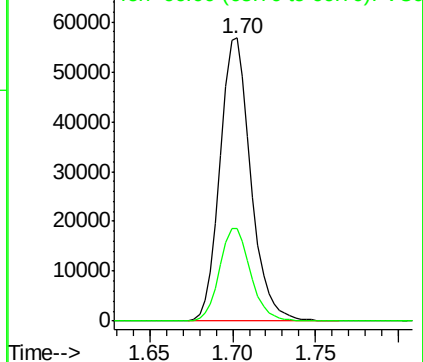
Ion Ratio Lower Upper

64 100

66 32.7 23.5 43.7



Abundance Ion 64.00 (63.70 to 64.70): VU0
Ion 66.00 (65.70 to 66.70): VU0



#9

Trichlorofluoromethane

Concen: 47.768 ug/L

RT: 1.89 min Scan# 404

Delta R.T. -0.00 min

Lab File: VU025546.D

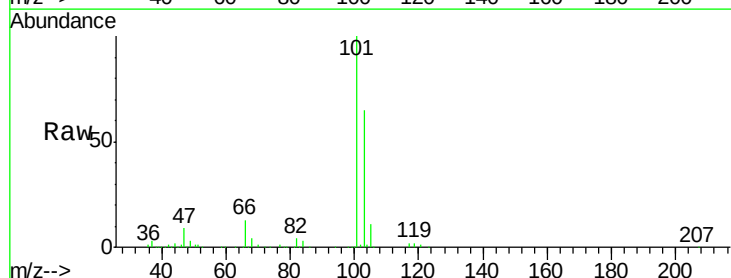
Acq: 20 Jul 2018 16:57

Tgt Ion:101 Resp: 179891

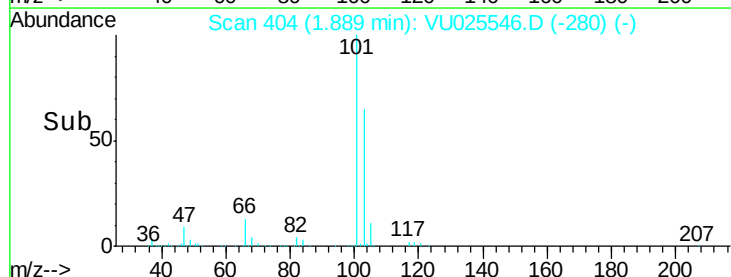
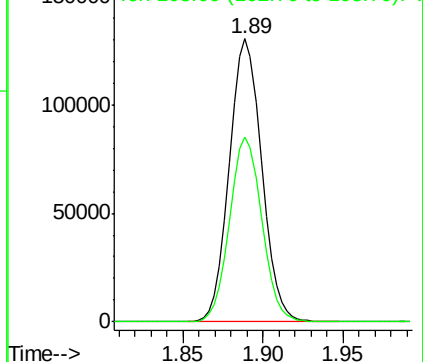
Ion Ratio Lower Upper

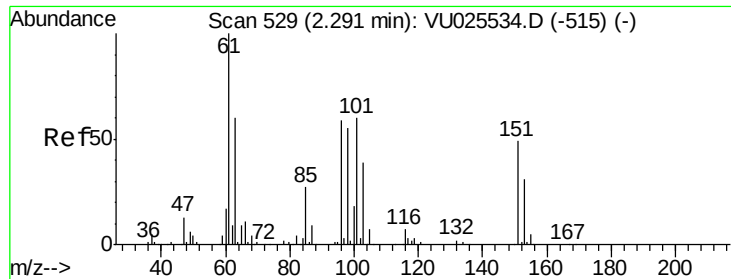
101 100

103 64.9 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 49.559 ug/L

RT: 2.29 min Scan# 529

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

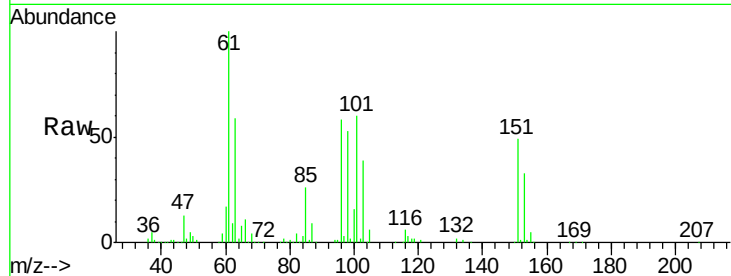
Tot Ion:101 Resp: 104513

Ion Ratio Lower Upper

101 100

85 43.4 35.5 53.3

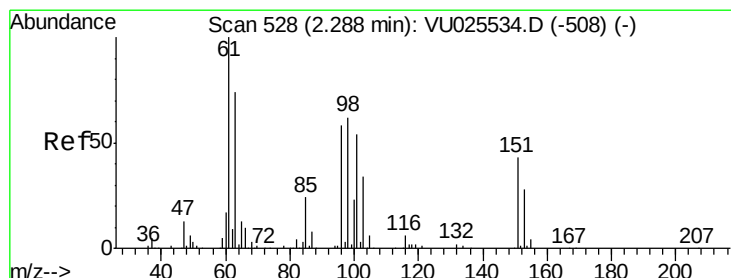
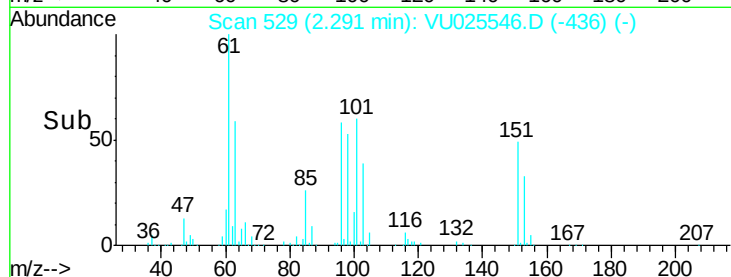
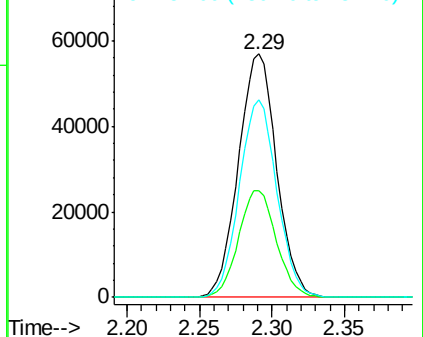
151 79.6 63.5 95.3



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: 49.030 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

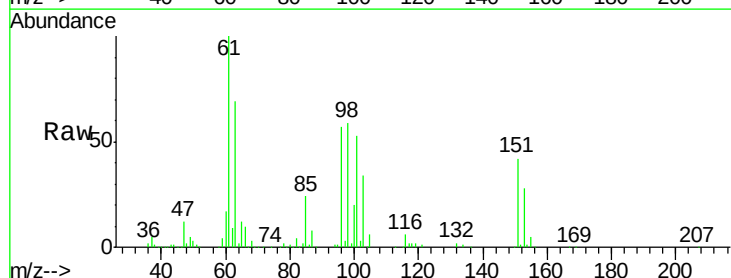
Tgt Ion: 96 Resp: 93760

Ion Ratio Lower Upper

96 100

61 175.2 122.5 227.5

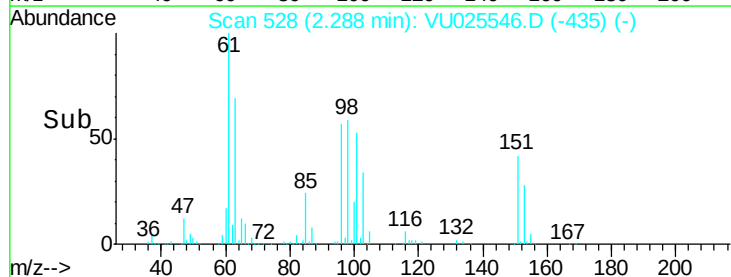
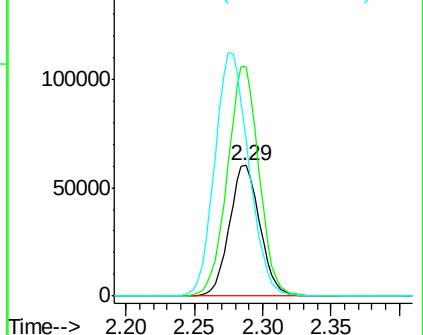
63 120.5 90.9 168.9

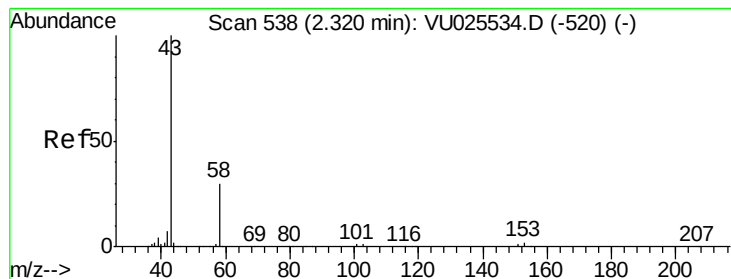


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 75.733 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Instrument :

MSVOA_U

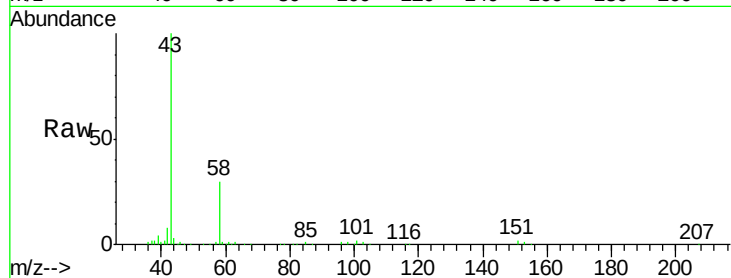
ClientSampleId :

Tot Ion: 43 Resp: 132754

Ion Ratio Lower Upper

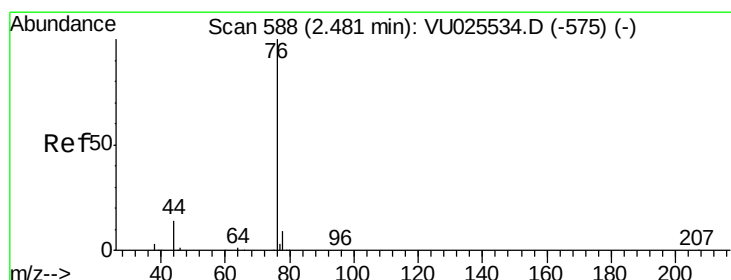
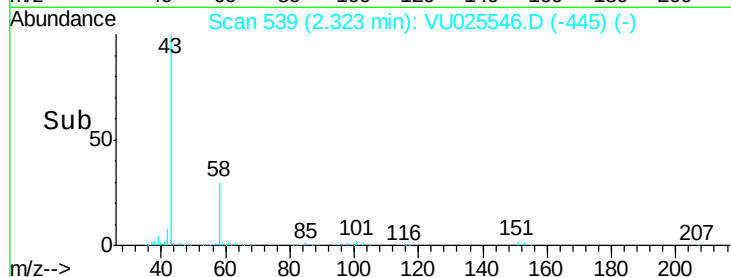
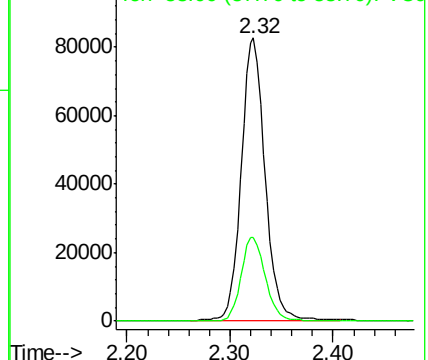
43 100

58 30.2 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 46.389 ug/L

RT: 2.48 min Scan# 588

Delta R.T. -0.00 min

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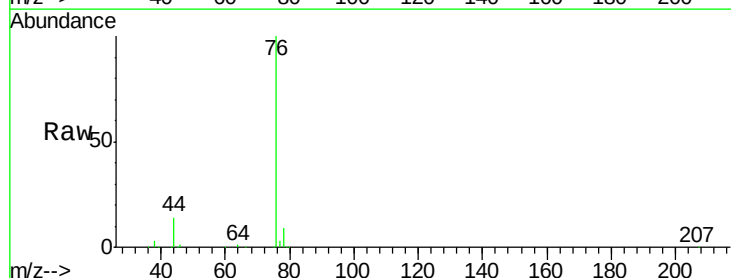
Acq: 20 Jul 2018 16:57

Tgt Ion: 76 Resp: 288856

Ion Ratio Lower Upper

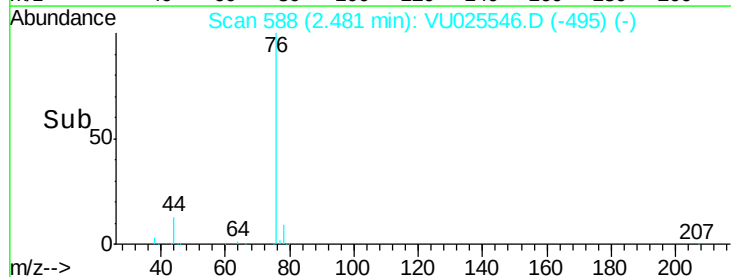
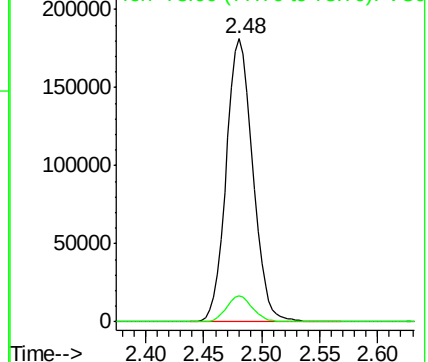
76 100

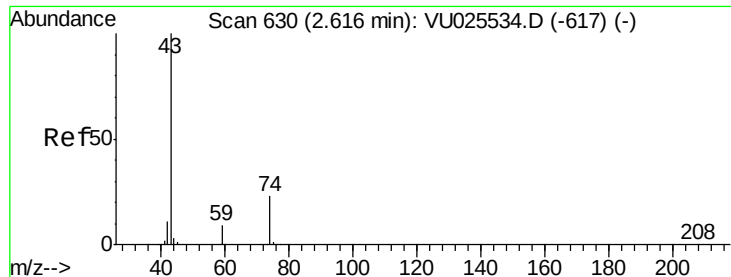
78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

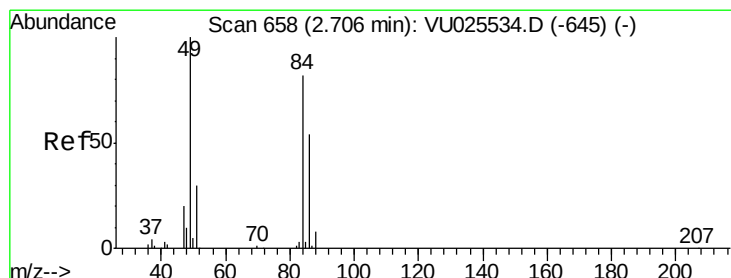
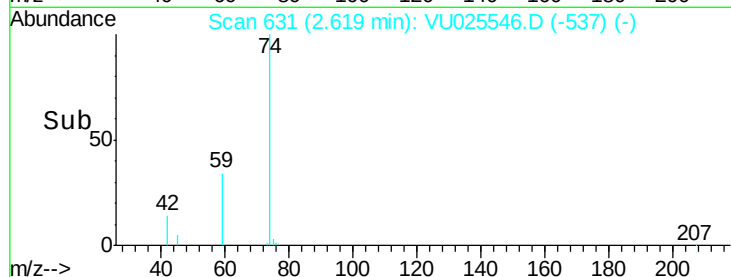
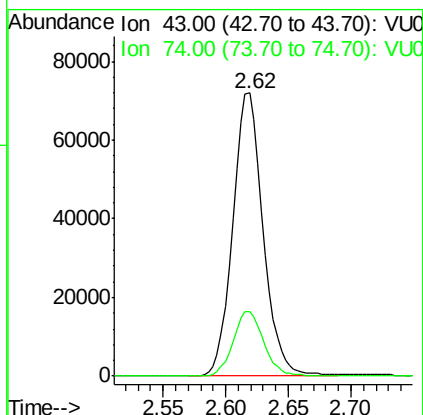
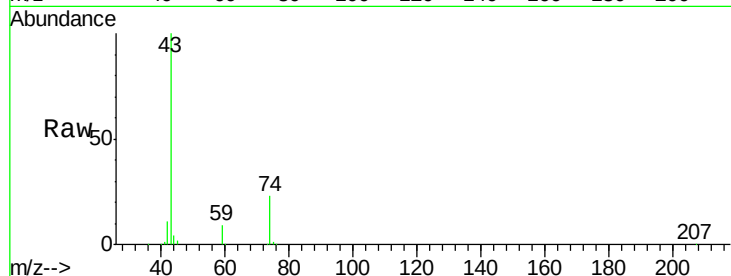




#15
Methvl Acetate
Concen: 49.913 ug/L
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU025546.D
Acq: 20 Jul 2018 16:57

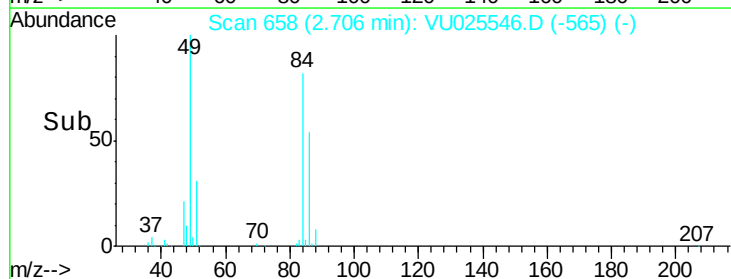
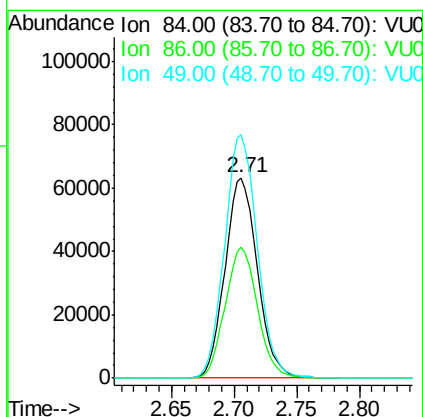
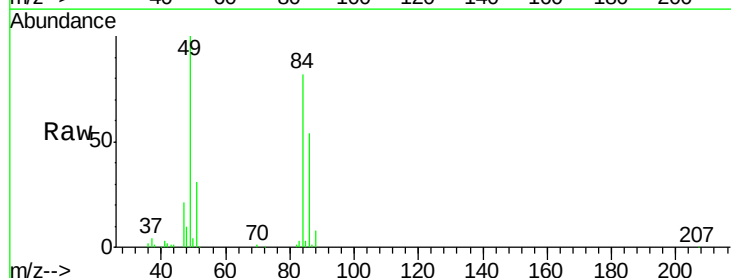
Instrument :
MSVOA_U
ClientSampled :

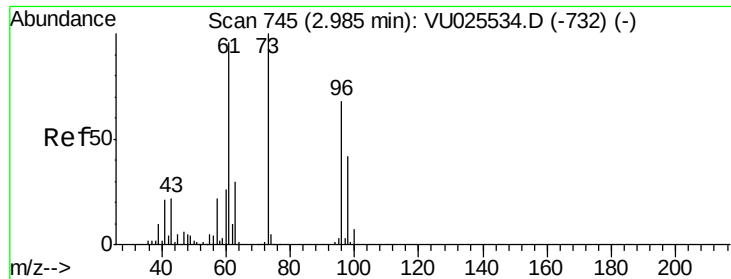
Tot Ion: 43 Resp: 120949
Ion Ratio Lower Upper
43 100
74 23.0 18.3 27.5



#16
Methylene chloride
Concen: 47.662 ug/L
RT: 2.71 min Scan# 658
Delta R.T. -0.00 min
Lab File: VU025546.D
Acq: 20 Jul 2018 16:57

Tgt Ion: 84 Resp: 113538
Ion Ratio Lower Upper
84 100
86 65.3 45.6 84.6
49 121.5 87.0 161.6





#17

trans-1,2-Dichloroethene

Concen: 47.132 ug/L

RT: 2.99 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Instrument :
MSVOA_U
ClientSampleId :

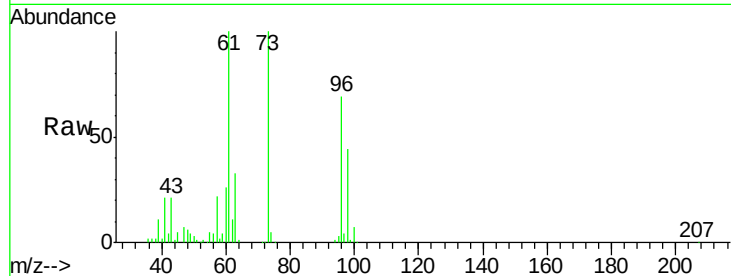
Tot Ion: 96 Resp: 103773

Ion Ratio Lower Upper

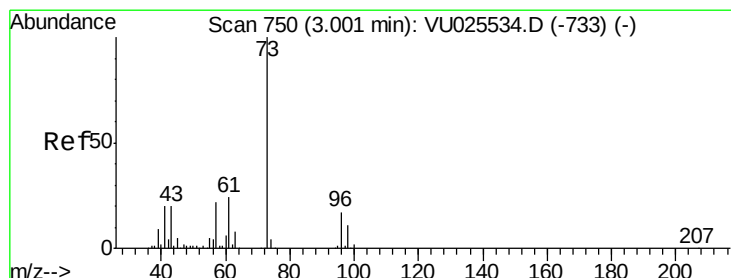
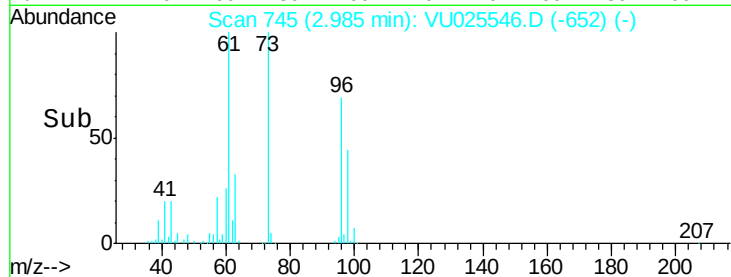
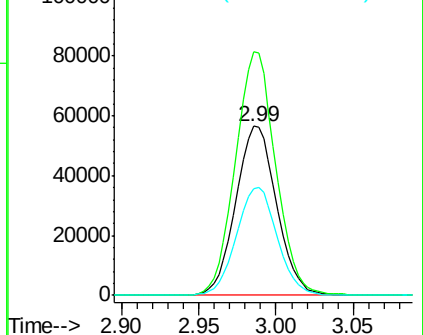
96 100

61 144.2 100.0 185.8

98 63.4 44.7 83.1



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: 49.131 ug/L

RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

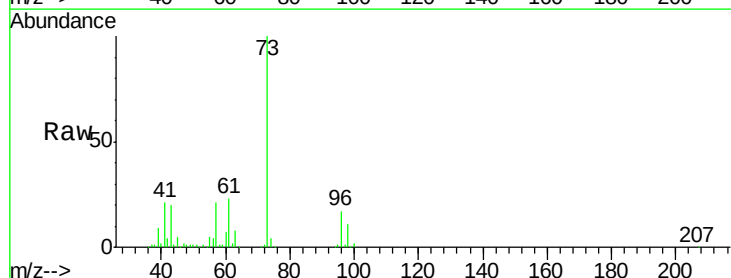
Tgt Ion: 73 Resp: 352301

Ion Ratio Lower Upper

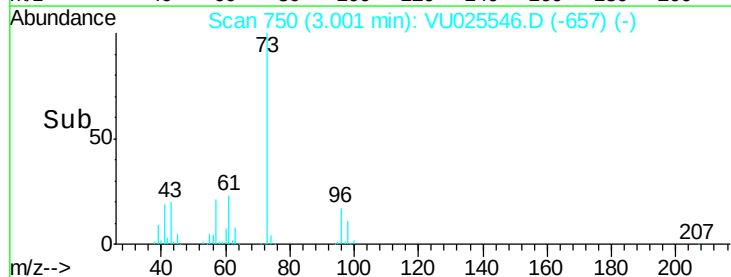
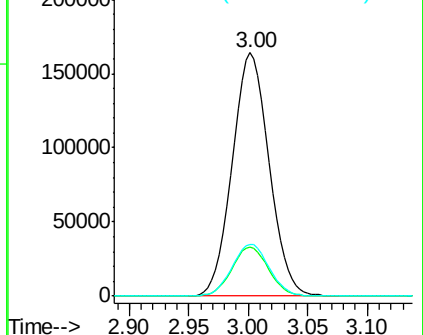
73 100

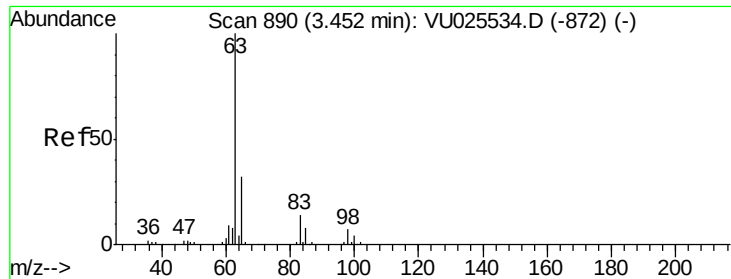
43 20.3 16.2 24.2

57 21.6 17.1 25.7



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

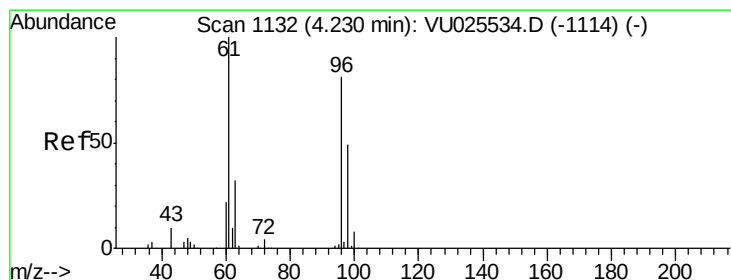
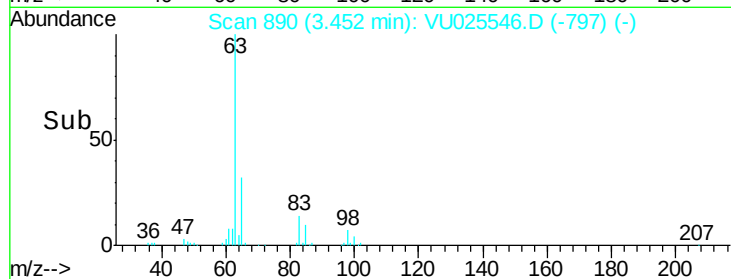
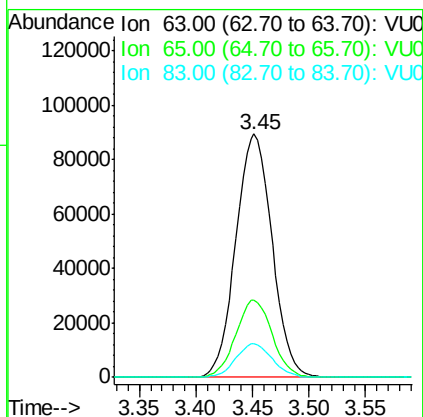
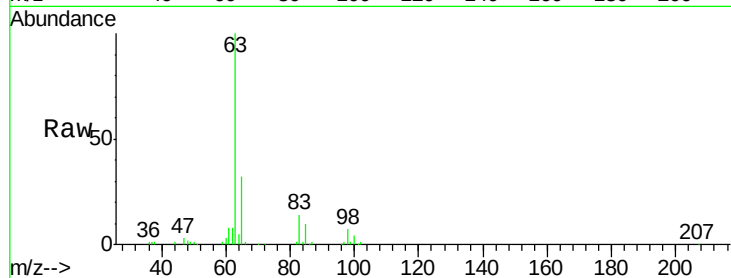




#19
 1,1-Dichloroethane
 Concen: 47.749 ug/L
 RT: 3.45 min Scan# 890
 Delta R.T. 0.00 min
 Lab File: VU025546.D
 Acq: 20 Jul 2018 16:57

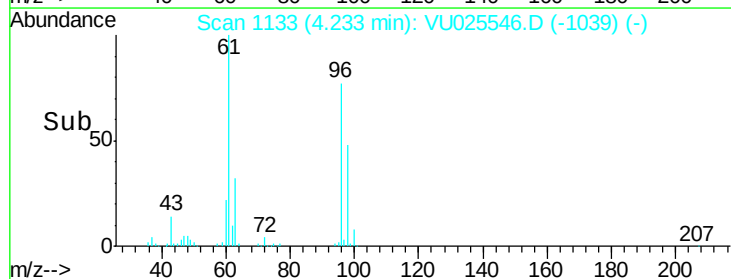
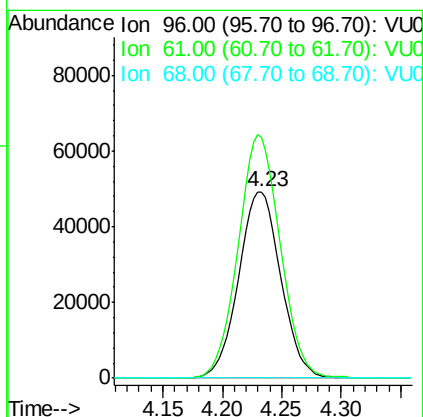
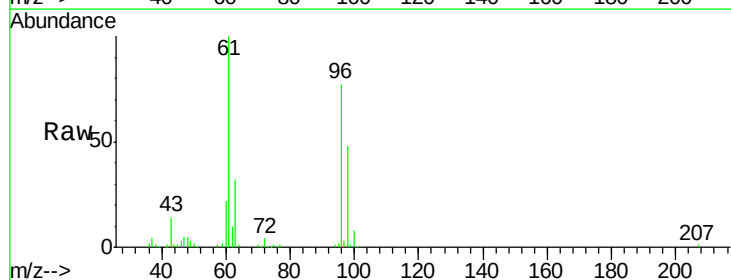
Instrument :
 MSVOA_U
 ClientSampleId :

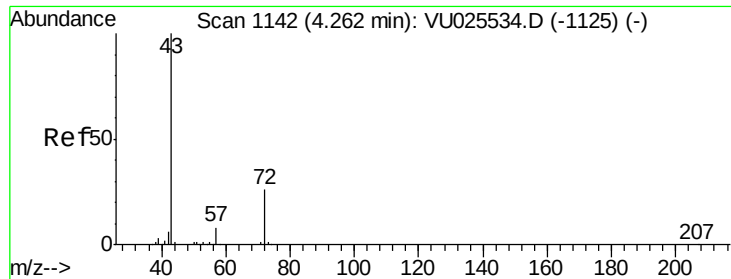
Tot Ion: 63 Resp: 199984
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.0 41.0
 83 13.9 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 48.554 ug/L
 RT: 4.23 min Scan# 1133
 Delta R.T. 0.00 min
 Lab File: VU025546.D
 Acq: 20 Jul 2018 16:57

Tgt Ion: 96 Resp: 120670
 Ion Ratio Lower Upper
 96 100
 61 129.4 87.4 162.2
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 91.916 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

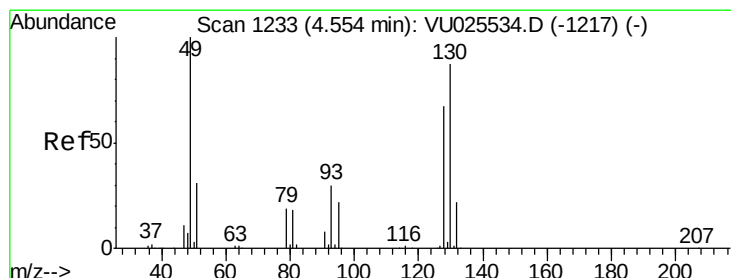
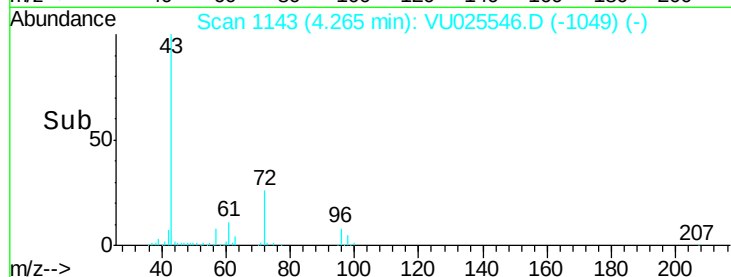
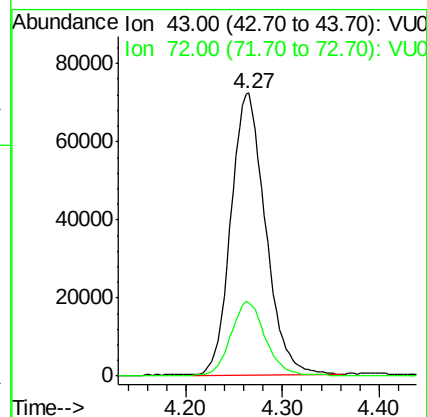
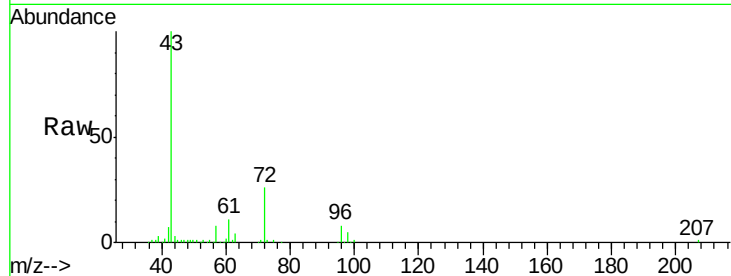
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 179369

Ion Ratio Lower Upper

43 100

72 26.6 13.6 40.8



#23

Bromochloromethane

Concen: 49.608 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Tgt Ion: 128 Resp: 65074

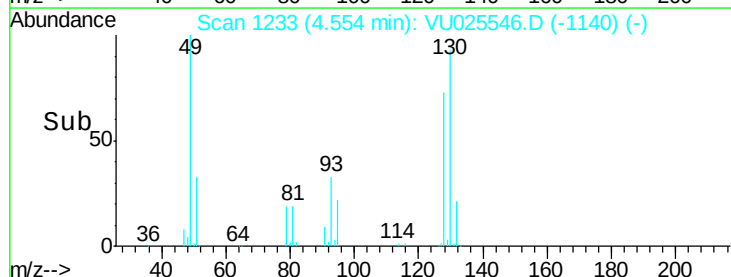
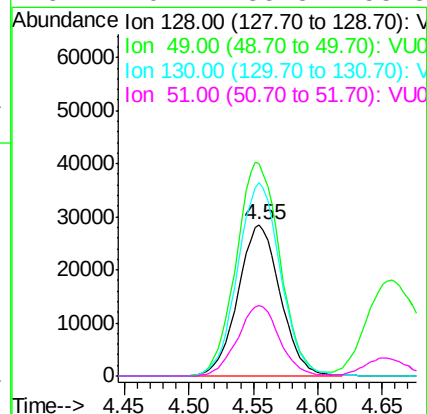
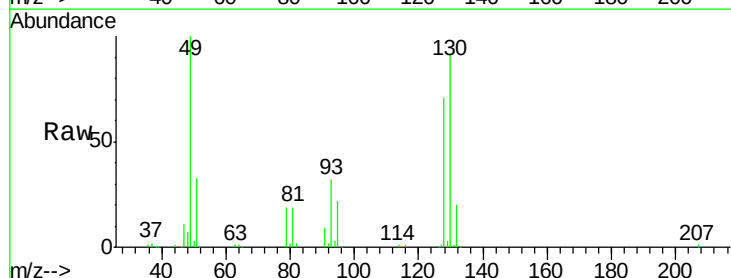
Ion Ratio Lower Upper

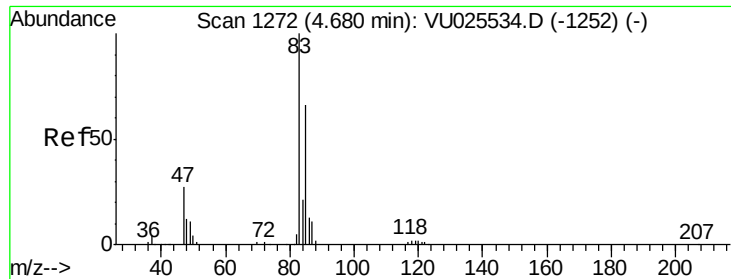
128 100

49 140.2 103.3 191.8

130 127.6 90.4 167.8

51 46.4 35.5 53.3

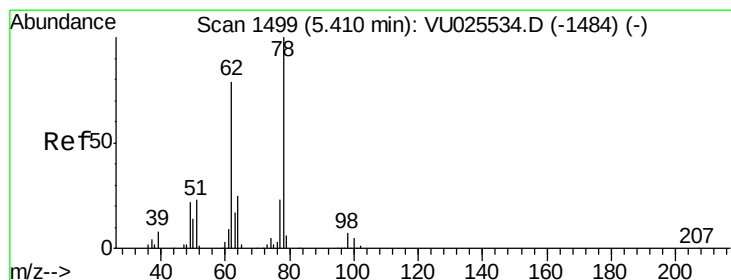
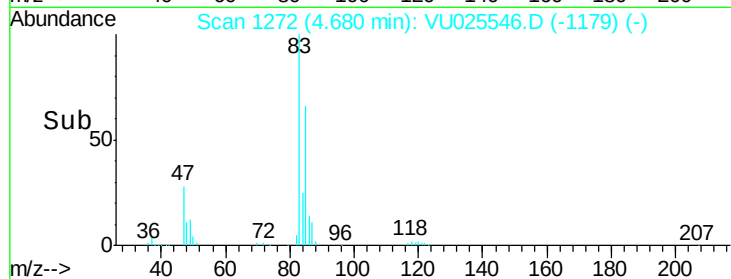
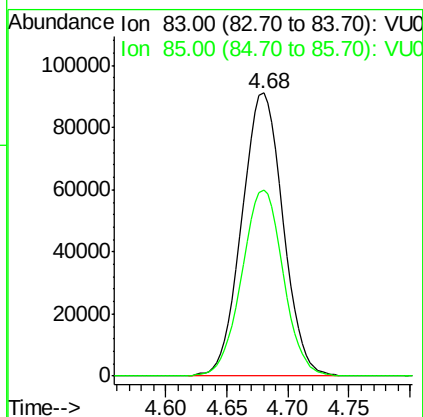
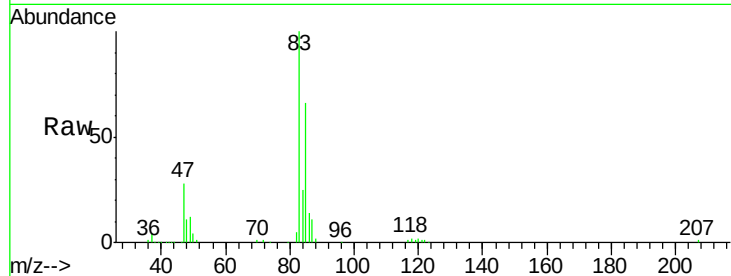




#25
Chloroform
Concen: 48.341 ug/L
RT: 4.68 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VU025546.D
Acq: 20 Jul 2018 16:57

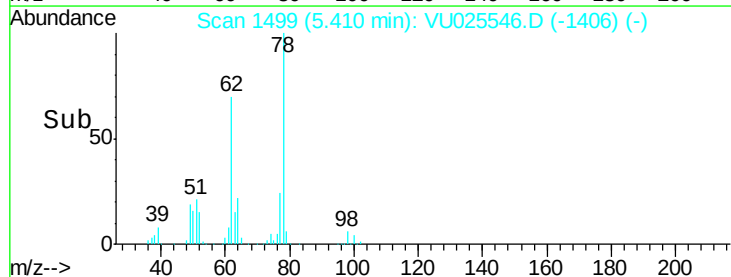
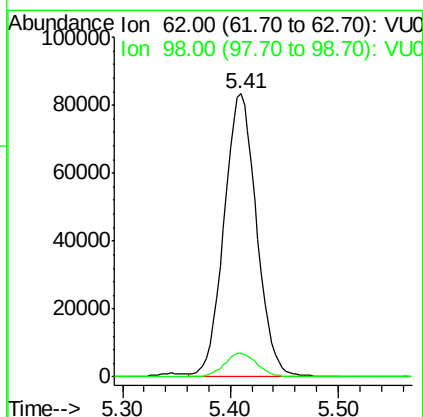
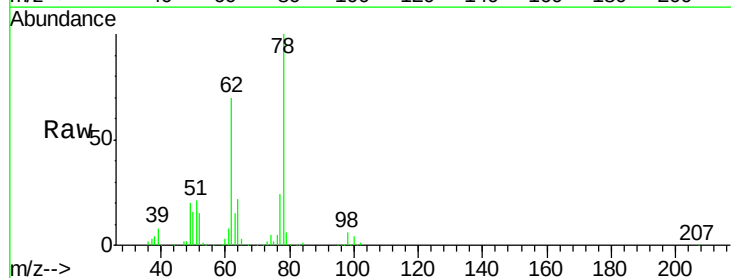
Instrument :
MSVOA_U
ClientSampled :

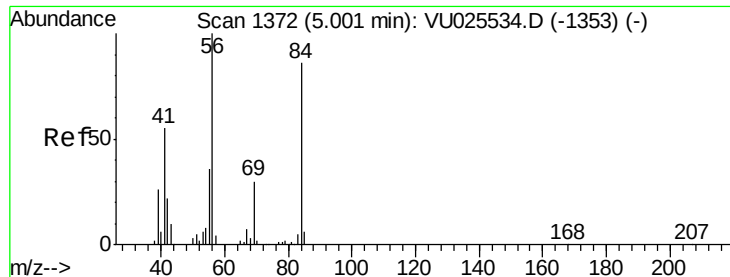
Tot Ion: 83 Resp: 213049
Ion Ratio Lower Upper
83 100
85 65.9 45.0 83.6



#27
1,2-Dichloroethane
Concen: 48.812 ug/L
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU025546.D
Acq: 20 Jul 2018 16:57

Tgt Ion: 62 Resp: 175468
Ion Ratio Lower Upper
62 100
98 8.3 6.5 9.7

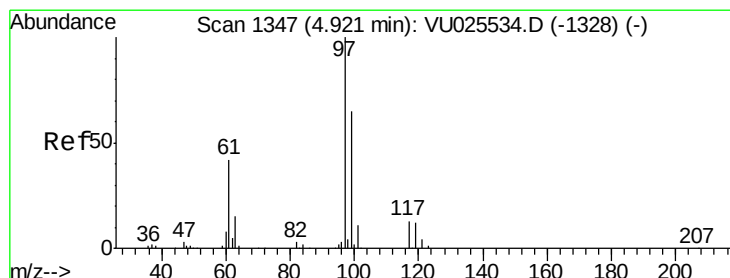
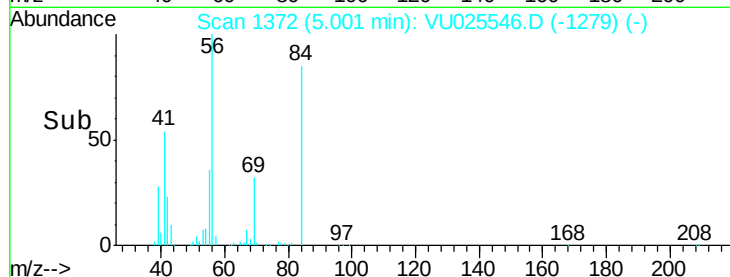
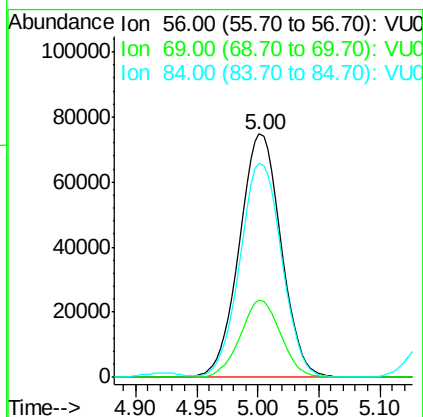
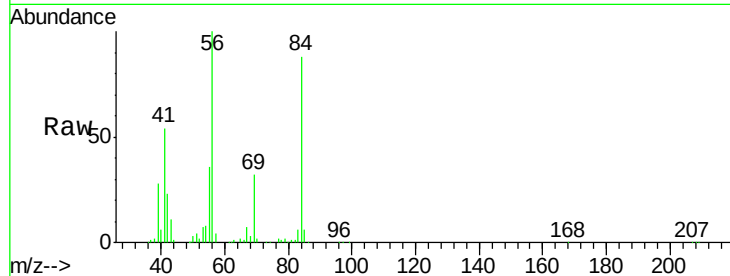




#29
Cyclohexane
Concen: 47.904 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. -0.00 min
Lab File: VU025546.D
Acq: 20 Jul 2018 16:57

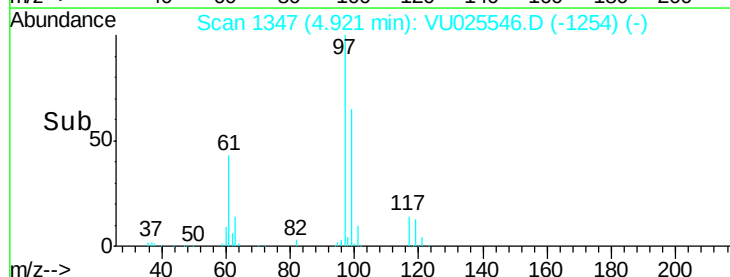
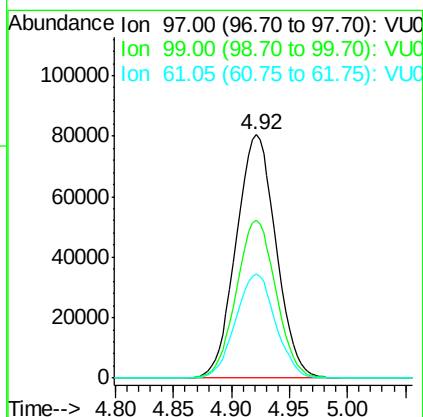
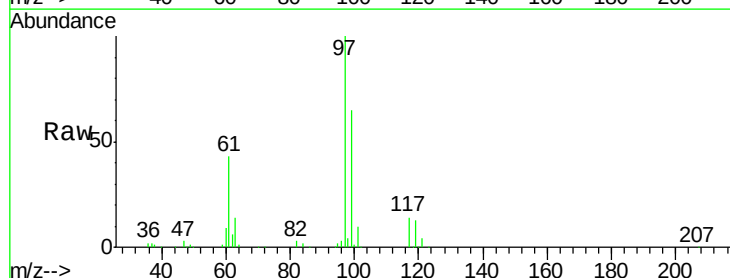
Instrument :
MSVOA_U
ClientSampleId :

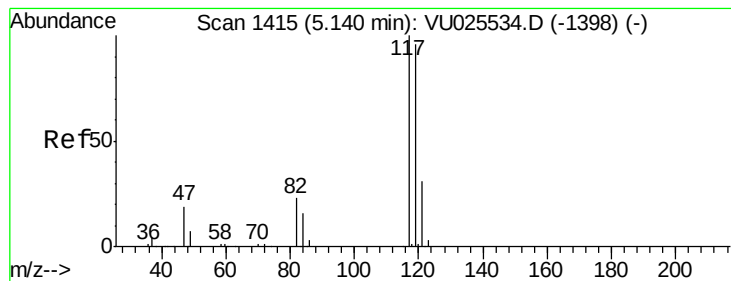
Tot Ion: 56 Resp: 177084
Ion Ratio Lower Upper
56 100
69 30.7 24.8 37.2
84 88.4 70.6 106.0



#30
1,1,1-Trichloroethane
Concen: 48.320 ug/L
RT: 4.92 min Scan# 1347
Delta R.T. -0.00 min
Lab File: VU025546.D
Acq: 20 Jul 2018 16:57

Tgt Ion: 97 Resp: 192927
Ion Ratio Lower Upper
97 100
99 64.4 52.4 78.6
61 42.7 34.6 52.0





#31

Carbon tetrachloride

Concen: 47.907 ug/L

RT: 5.14 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Instrument :

MSVOA_U

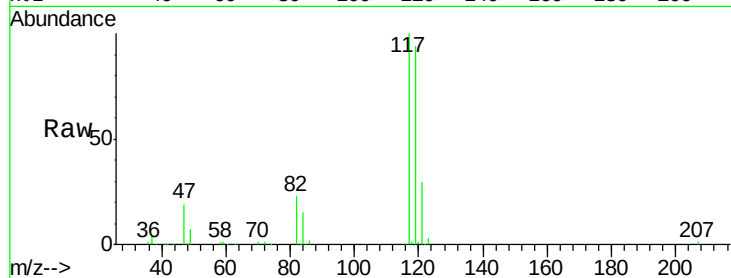
ClientSampleId :

Tot Ion:117 Resp: 176870

Ion Ratio Lower Upper

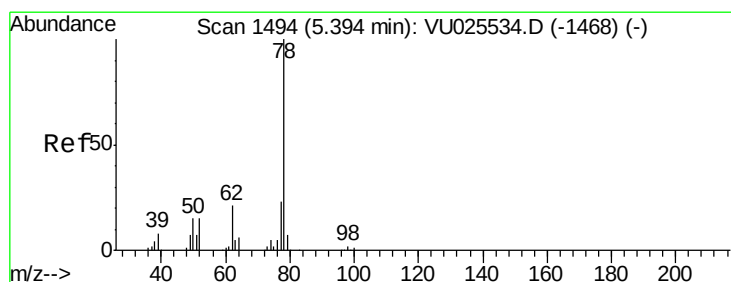
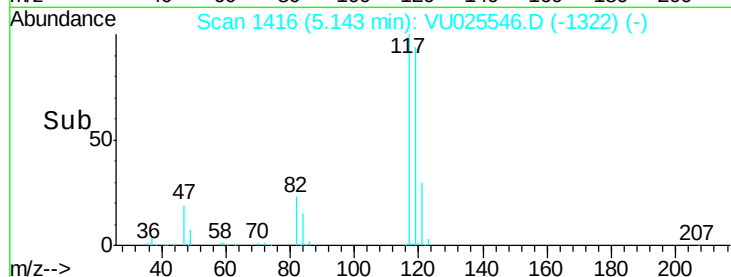
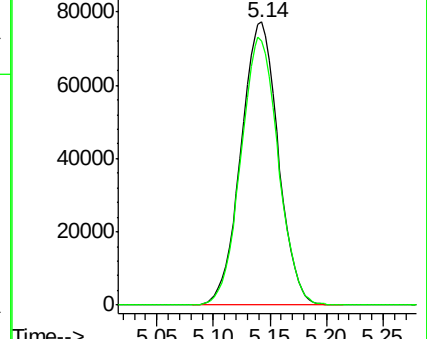
117 100

119 94.9 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 48.444 ug/L

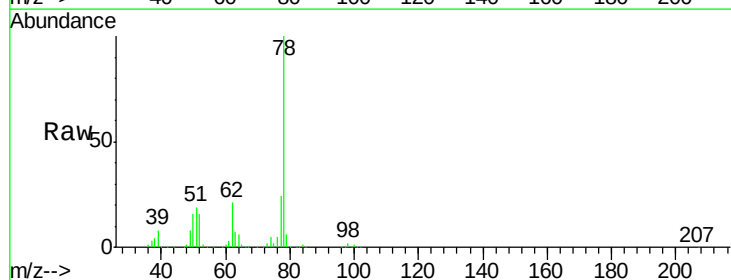
RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

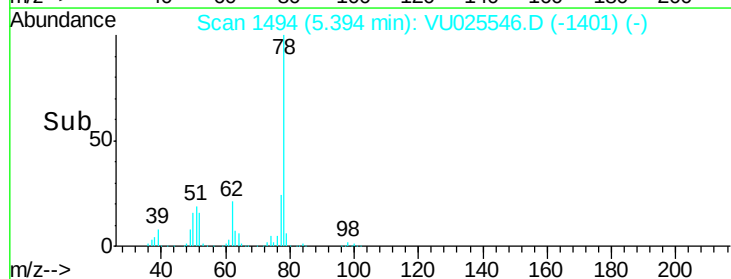
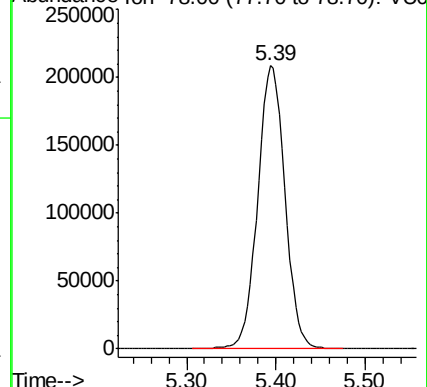
Lab File: VU025546.D

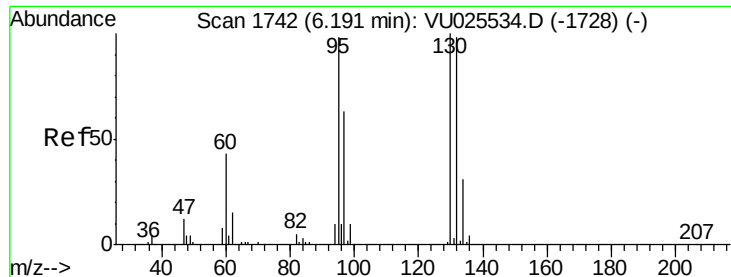
Acq: 20 Jul 2018 16:57

Tgt Ion: 78 Resp: 444131



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 48.457 ug/L

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 117874

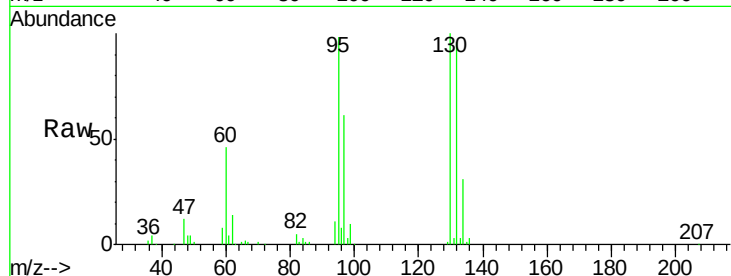
Ion Ratio Lower Upper

95 100

97 63.0 45.9 85.3

132 98.3 72.2 134.2

130 102.6 74.9 139.1

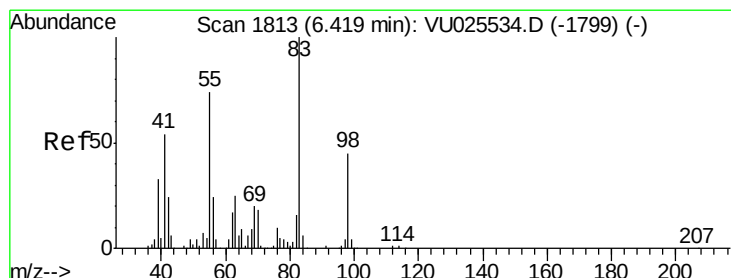
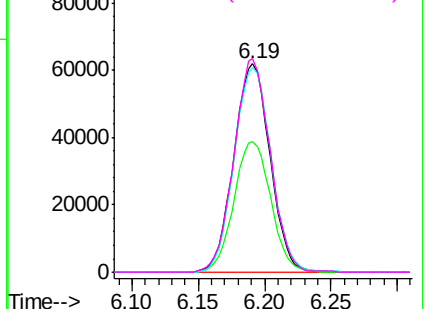
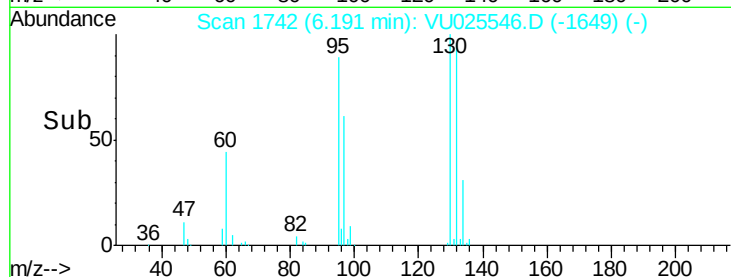


Abundance Ion 95.00 (94.70 to 95.70): VU025534.D (-1728) (-)

Ion 97.00 (96.70 to 97.70): VU025534.D (-1728) (-)

Ion 132.00 (131.70 to 132.70): VU025534.D (-1728) (-)

Ion 130.00 (129.70 to 130.70): VU025534.D (-1728) (-)



#35

Methylcyclohexane

Concen: 47.633 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

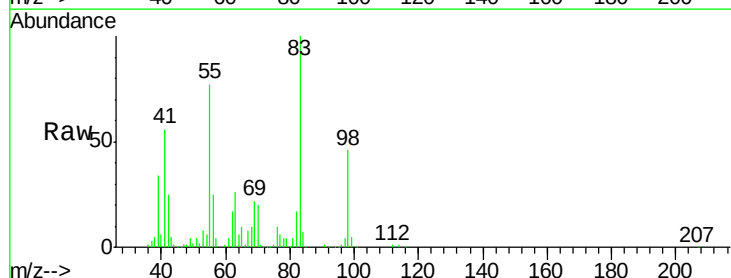
Tgt Ion: 83 Resp: 186830

Ion Ratio Lower Upper

83 100

55 77.0 61.1 91.7

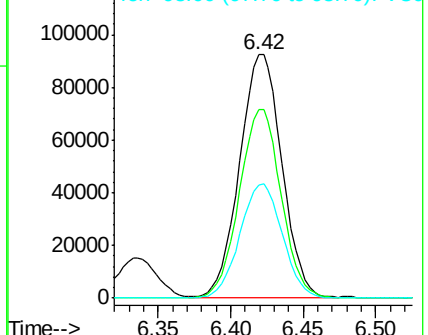
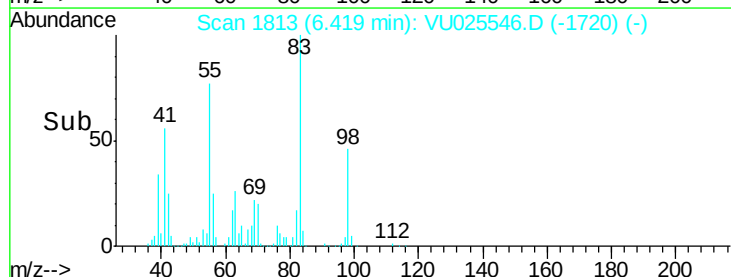
98 47.3 38.6 57.8

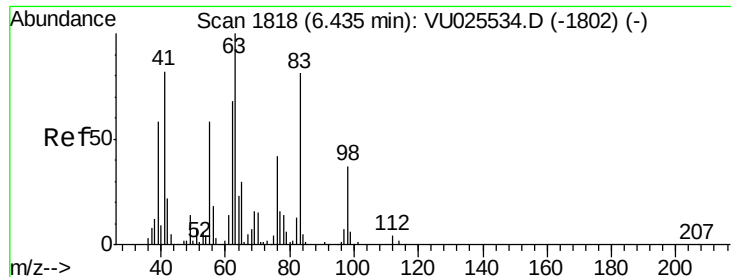


Abundance Ion 83.00 (82.70 to 83.70): VU025534.D (-1799) (-)

Ion 55.00 (54.70 to 55.70): VU025534.D (-1799) (-)

Ion 98.00 (97.70 to 98.70): VU025534.D (-1799) (-)





#37

1,2-Dichloropropane

Concen: 47.855 ug/L

RT: 6.44 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Instrument :

MSVOA_U

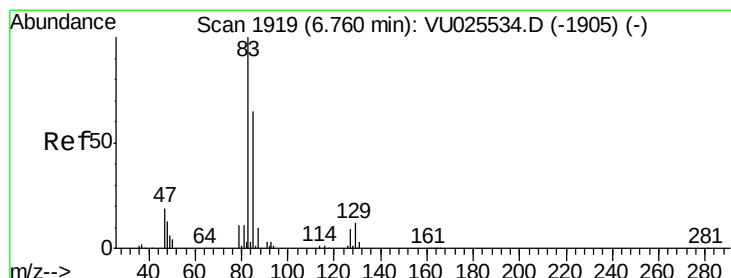
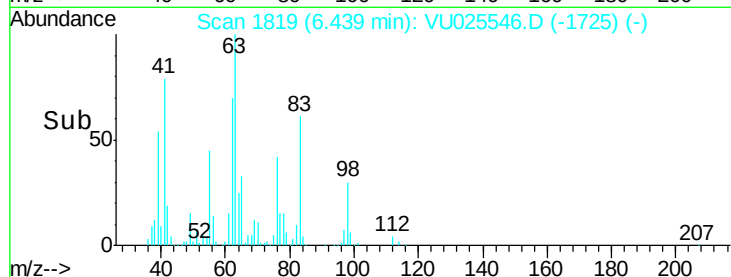
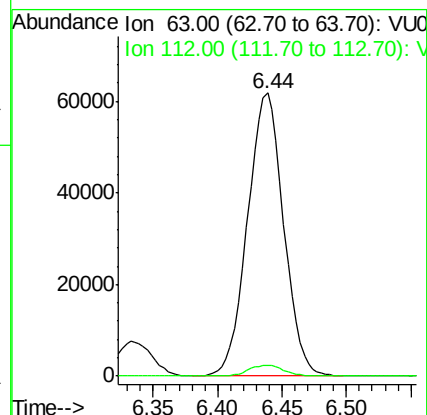
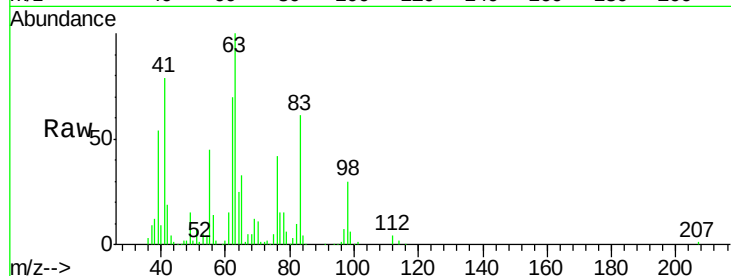
ClientSampleId :

Tot Ion: 63 Resp: 119892

Ion Ratio Lower Upper

63 100

112 3.9 3.3 4.9



#38

Bromodichloromethane

Concen: 48.410 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

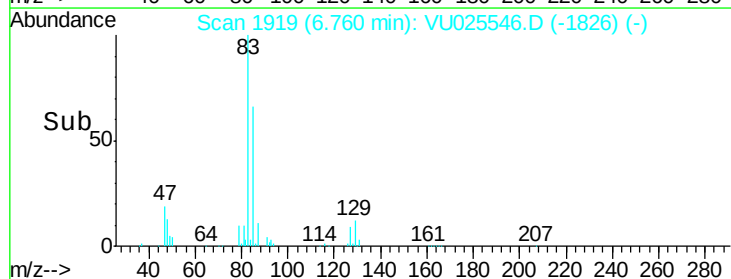
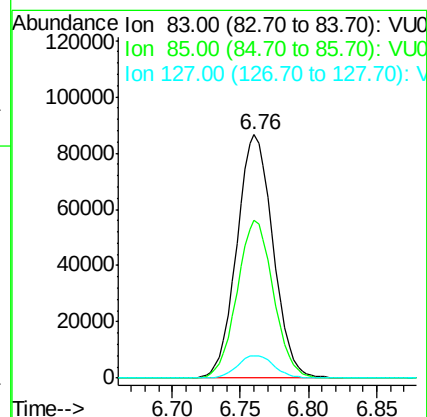
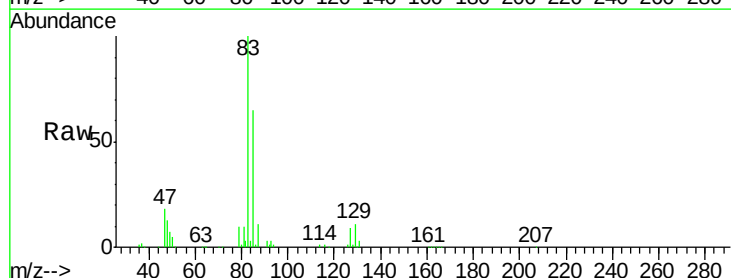
Tgt Ion: 83 Resp: 159906

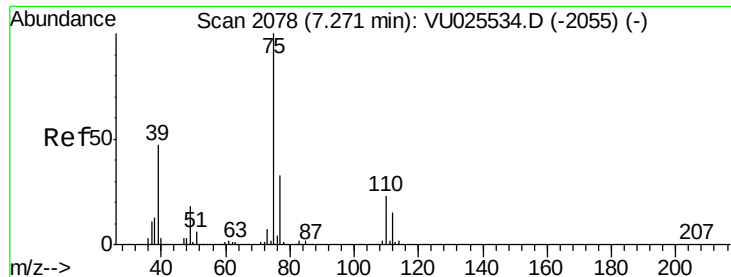
Ion Ratio Lower Upper

83 100

85 64.6 46.7 86.7

127 9.2 8.0 12.0

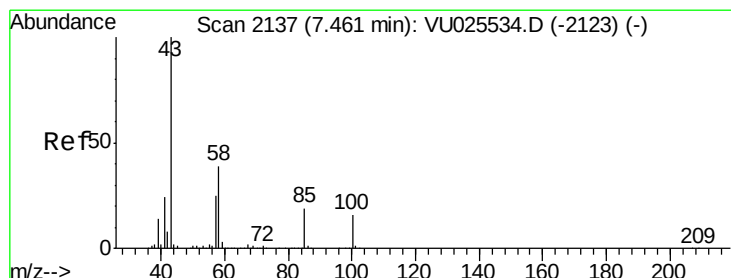
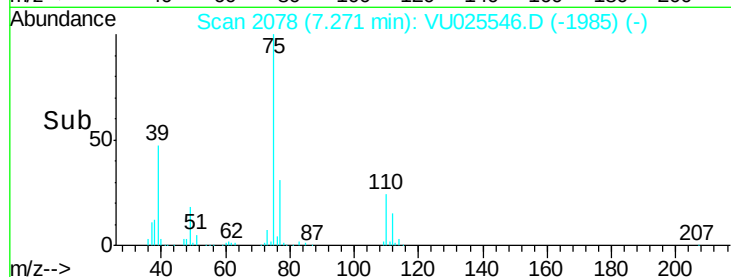
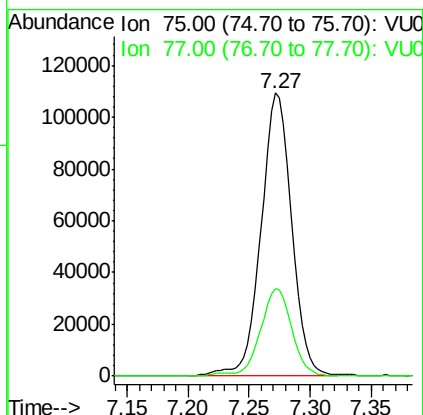
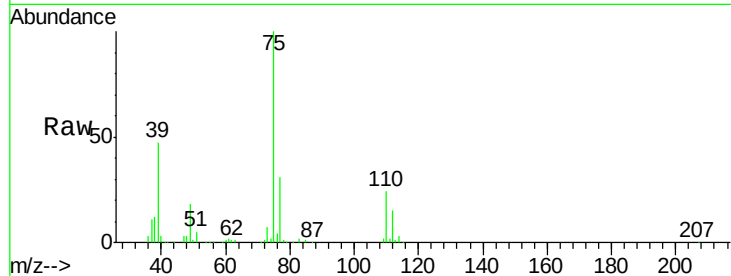




#39
 cis-1,3-Dichloropropene
 Concen: 49.253 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU025546.D
 Acq: 20 Jul 2018 16:57

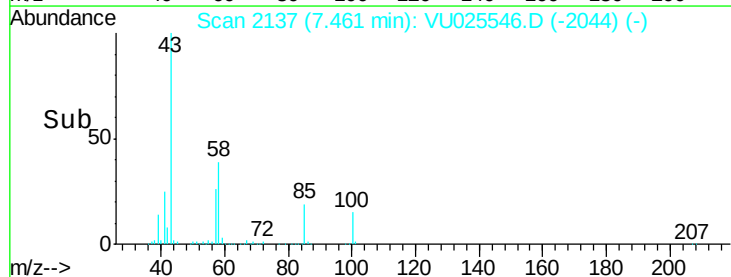
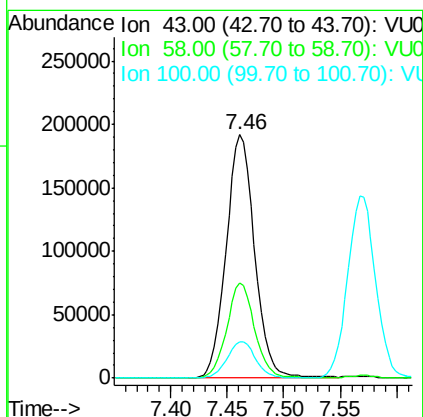
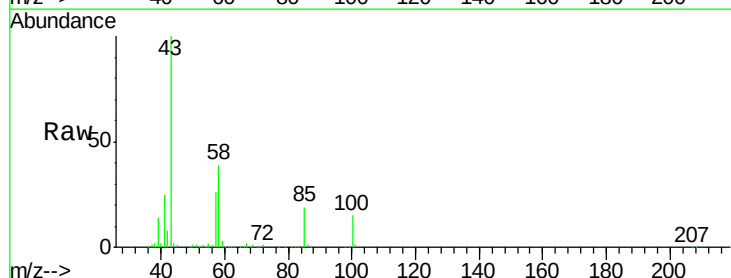
Instrument :
 MSVOA_U
 ClientSampled :

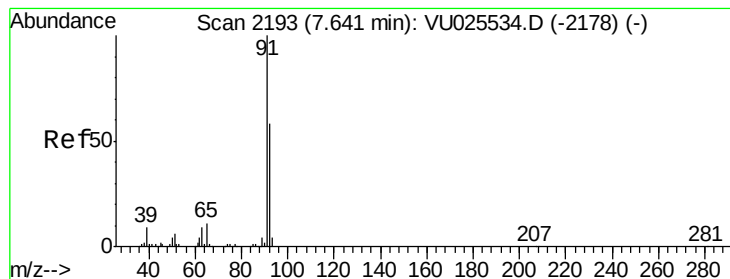
Tot Ion: 75 Resp: 191496
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 102.106 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU025546.D
 Acq: 20 Jul 2018 16:57

Tgt Ion: 43 Resp: 335929
 Ion Ratio Lower Upper
 43 100
 58 38.3 30.8 46.2
 100 15.1 12.1 18.1





#42

Toluene

Concen: 48.696 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Instrument :

MSVOA_U

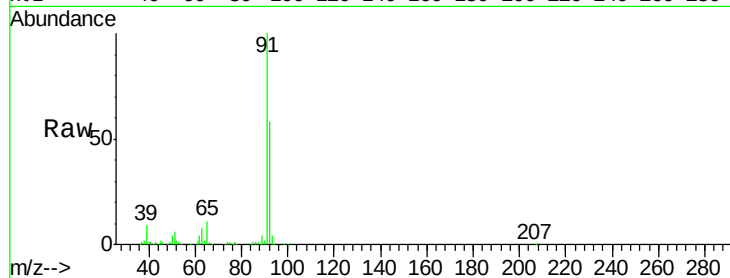
ClientSampled :

Tot Ion: 91 Resp: 481451

Ion Ratio Lower Upper

91 100

92 57.9 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.64

300000

250000

200000

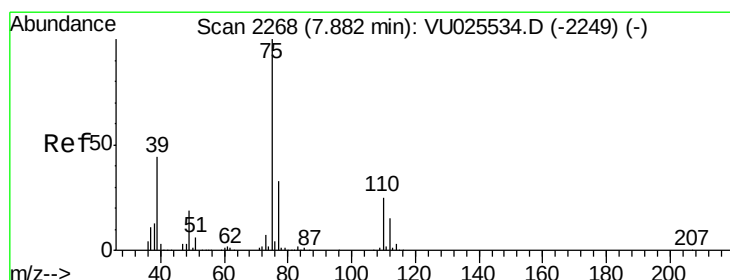
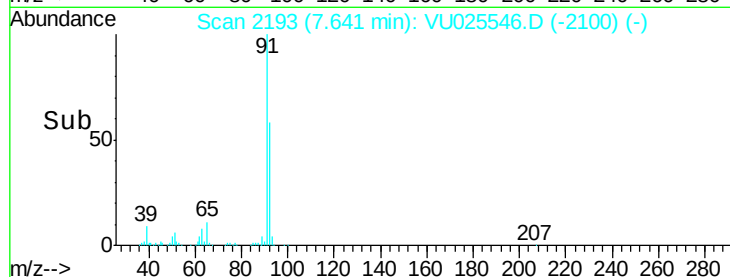
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 49.087 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU025546.D

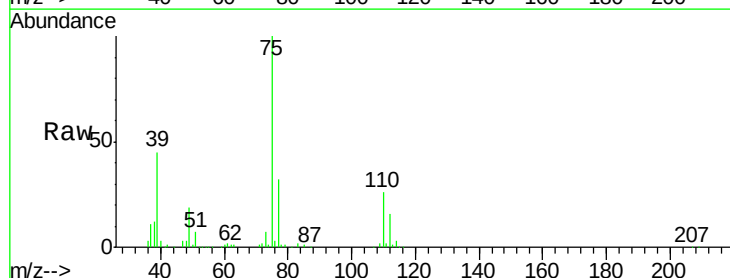
Acq: 20 Jul 2018 16:57

Tgt Ion: 75 Resp: 179945

Ion Ratio Lower Upper

75 100

77 31.8 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.88

120000

100000

80000

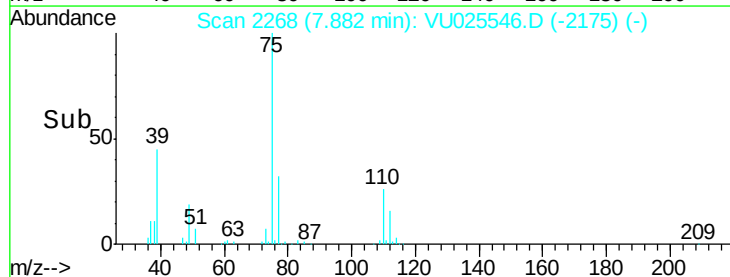
60000

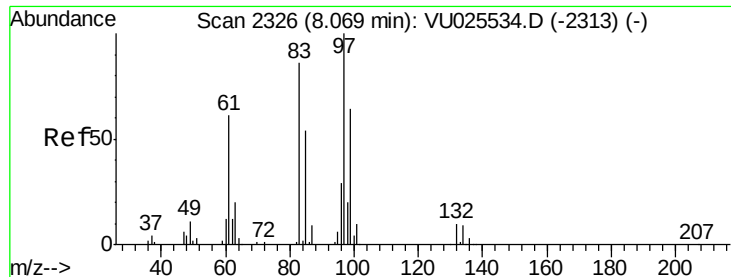
40000

20000

0

Time-->

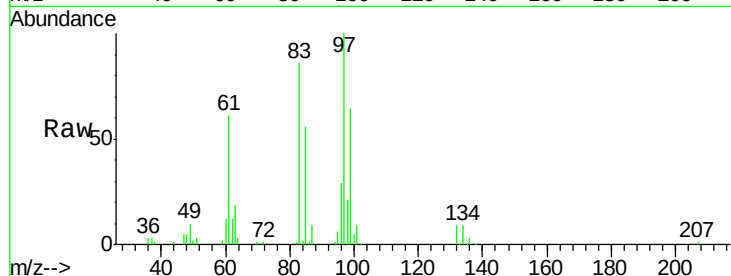




#45
1,1,2-Trichloroethane
Concen: 47.816 ug/L
RT: 8.07 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU025546.D
Acq: 20 Jul 2018 16:57

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	97	Resp:	114907
Ion	Ratio	Lower	Upper
97	100		
99	64.3	44.3	82.3
83	85.6	59.8	111.1
85	55.8	37.9	70.5



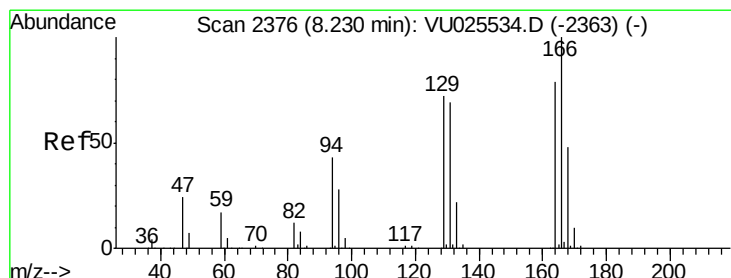
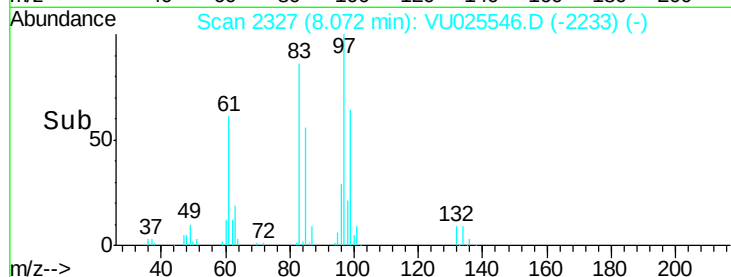
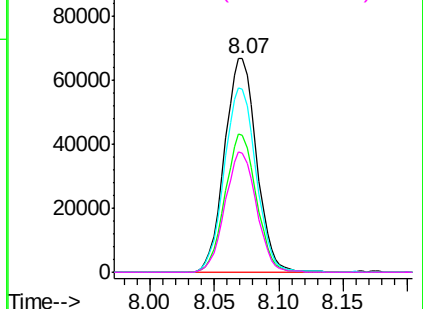
Abundance

Ion 97.00 (96.70 to 97.70): VU025546.D (-2233) (-)

Ion 99.00 (98.70 to 99.70): VU025546.D (-2233) (-)

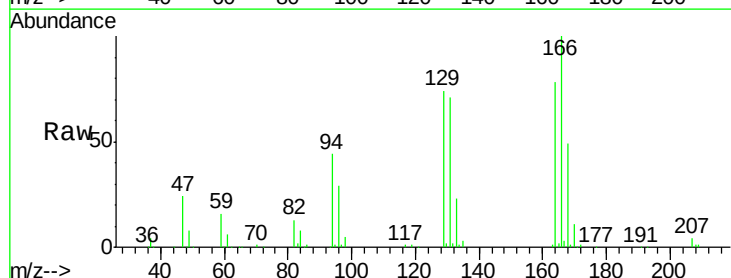
Ion 83.00 (82.70 to 83.70): VU025546.D (-2233) (-)

Ion 85.00 (84.70 to 85.70): VU025546.D (-2233) (-)



#46
Tetrachloroethene
Concen: 48.278 ug/L
RT: 8.23 min Scan# 2376
Delta R.T. -0.00 min
Lab File: VU025546.D
Acq: 20 Jul 2018 16:57

Tgt Ion:	164	Resp:	101813
Ion	Ratio	Lower	Upper
164	100		
129	95.4	65.1	120.9
131	91.1	62.8	116.6
166	128.7	89.7	166.7



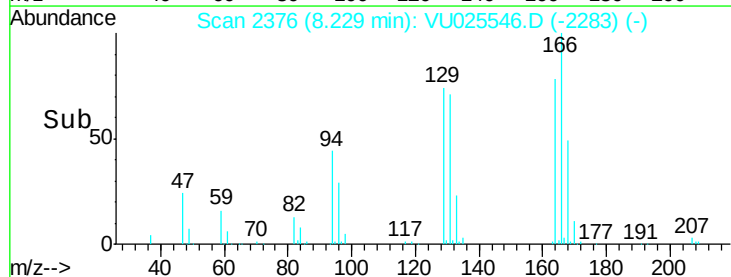
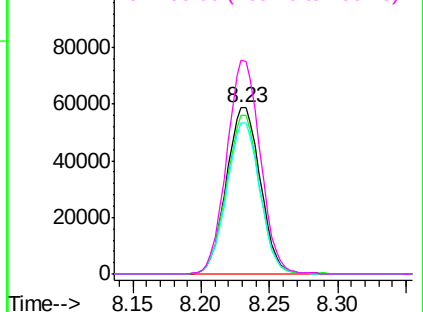
Abundance

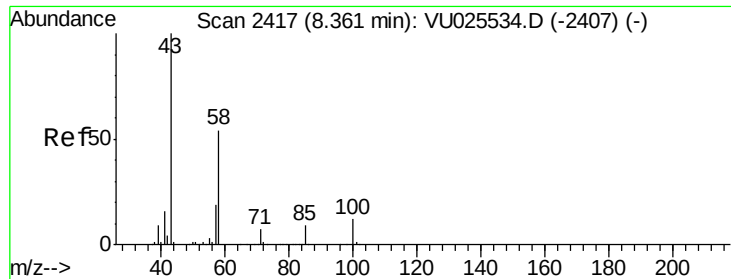
Ion 164.00 (163.70 to 164.70): VU025546.D (-2283) (-)

Ion 129.00 (128.70 to 129.70): VU025546.D (-2283) (-)

Ion 131.00 (130.70 to 131.70): VU025546.D (-2283) (-)

Ion 166.00 (165.70 to 166.70): VU025546.D (-2283) (-)

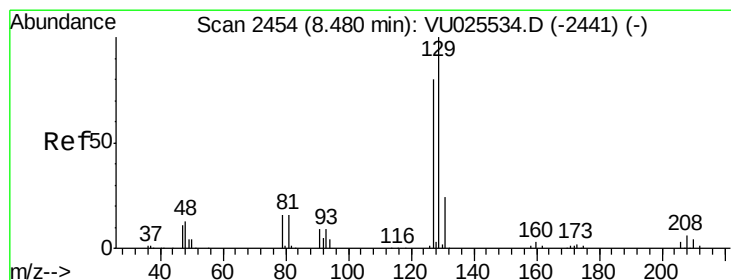
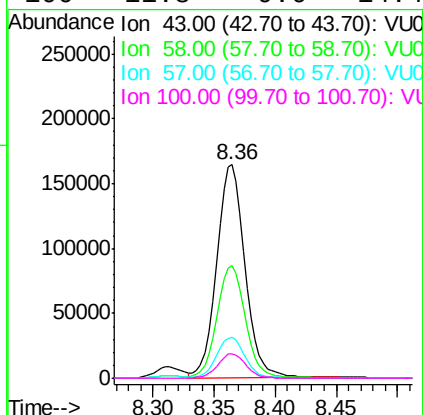
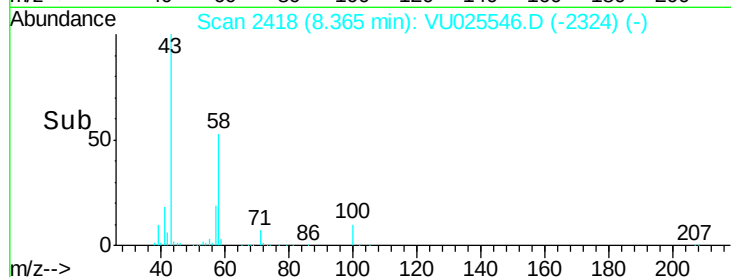
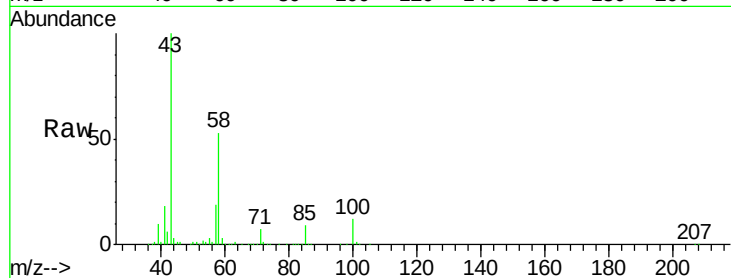




#48
2-Hexanone
Concen: 96.666 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025546.D
Acq: 20 Jul 2018 16:57

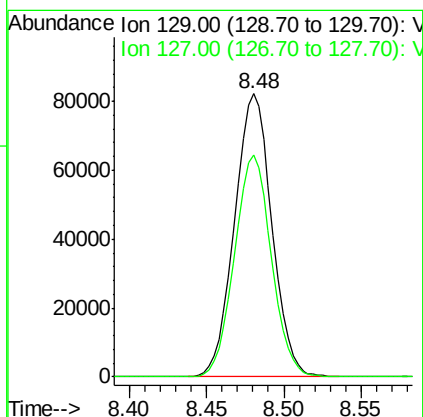
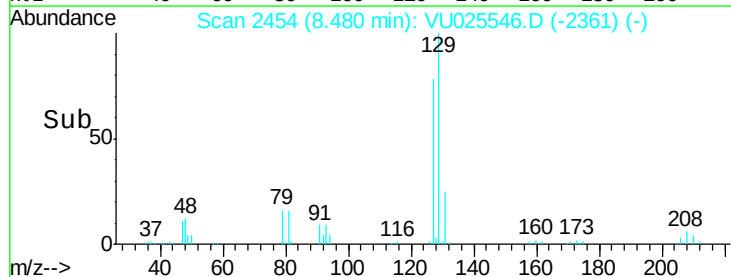
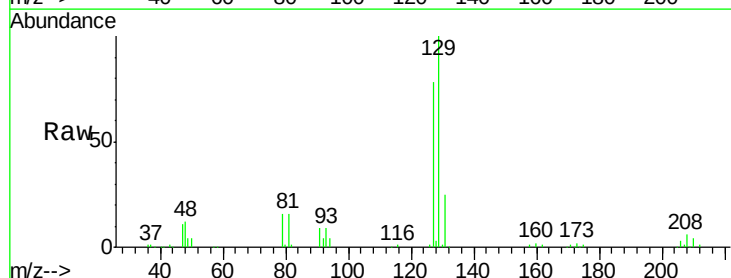
Instrument :
MSVOA_U
ClientSampleId :

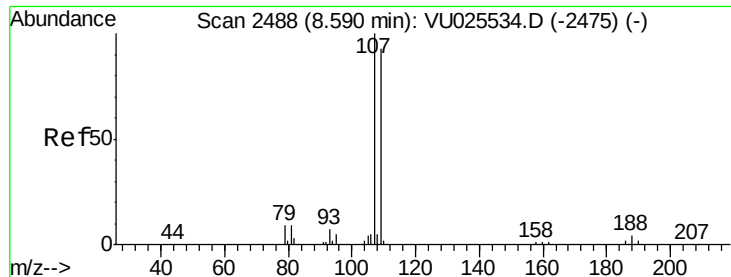
Tot Ion: 43 Resp: 268734
Ion Ratio Lower Upper
43 100
58 53.7 42.9 64.3
57 19.0 15.4 23.2
100 11.8 9.6 14.4



#49
Dibromochloromethane
Concen: 48.852 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025546.D
Acq: 20 Jul 2018 16:57

Tgt Ion: 129 Resp: 137711
Ion Ratio Lower Upper
129 100
127 78.4 53.8 100.0

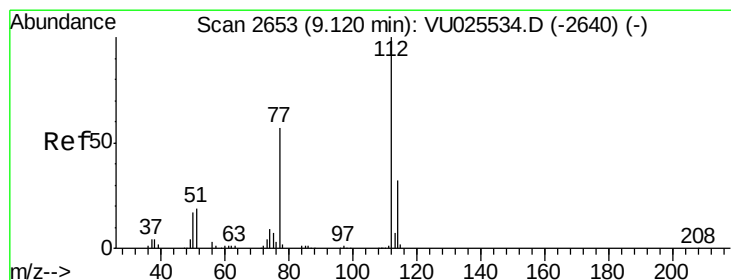
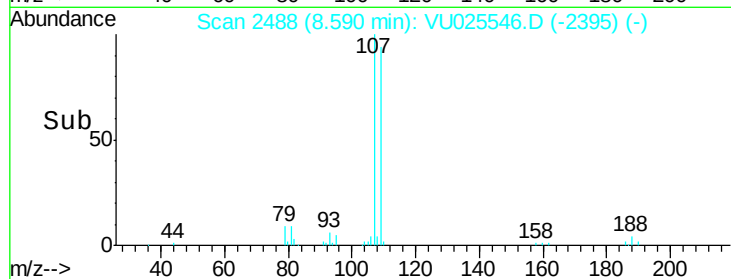
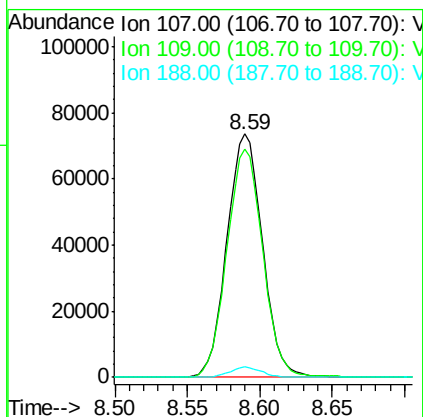
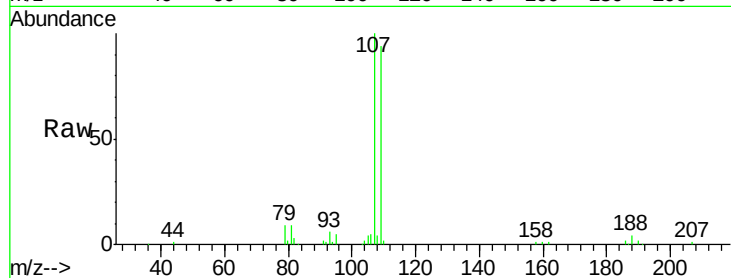




#50
1,2-Dibromoethane
Concen: 48.470 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. -0.00 min
Lab File: VU025546.D
Acq: 20 Jul 2018 16:57

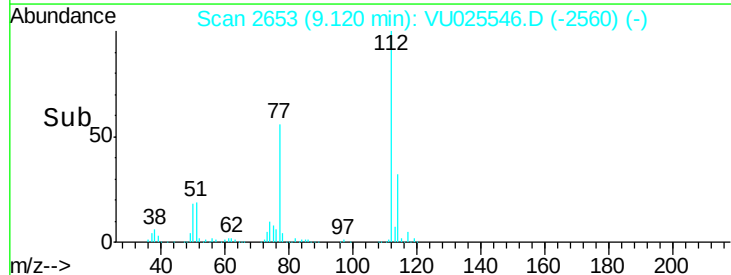
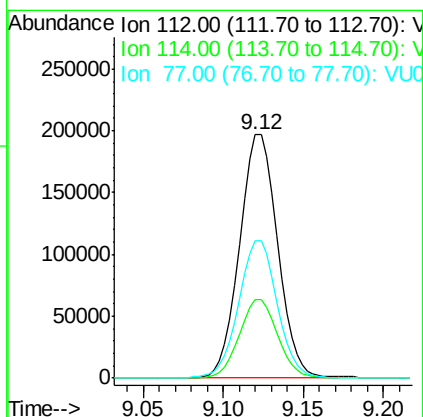
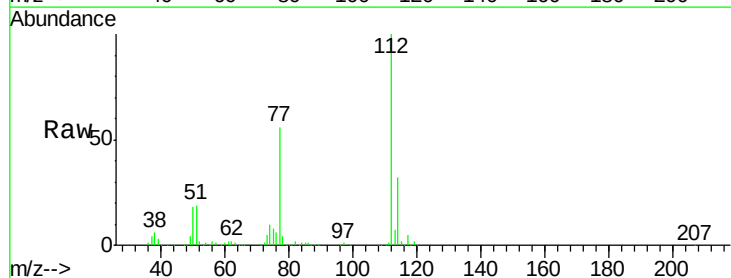
Instrument :
MSVOA_U
ClientSampleId :

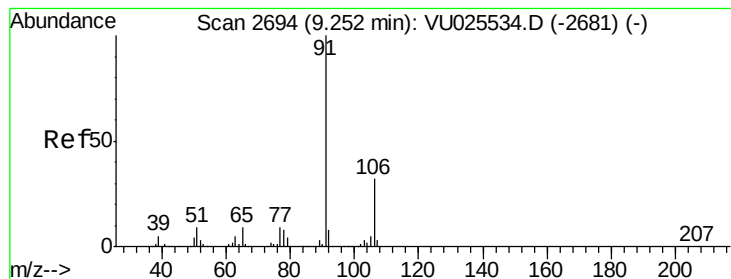
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	66.6	123.8
188	4.3	3.2	4.8



#51
Chlorobenzene
Concen: 47.926 ug/L
RT: 9.12 min Scan# 2653
Delta R.T. -0.00 min
Lab File: VU025546.D
Acq: 20 Jul 2018 16:57

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.5	41.9
77	56.2	45.8	68.8





#52

Ethylbenzene

Concen: 48.845 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Instrument :

MSVOA_U

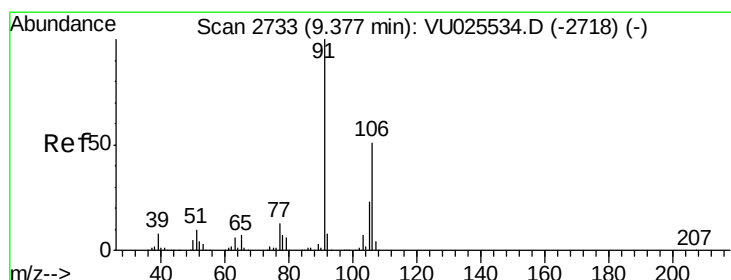
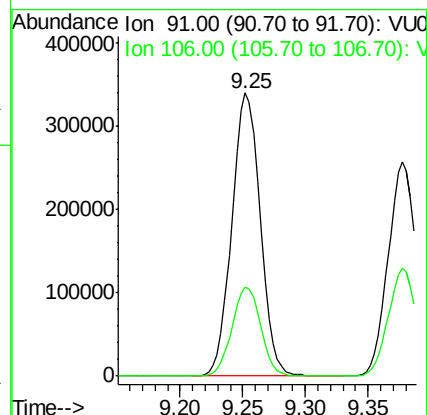
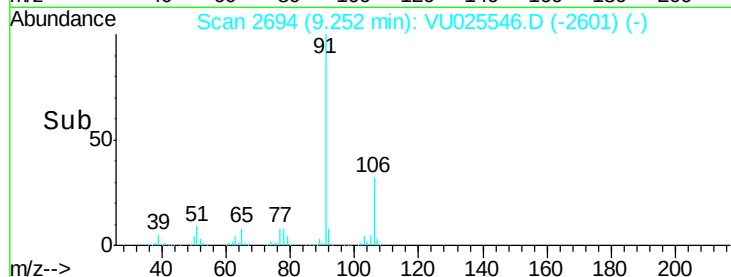
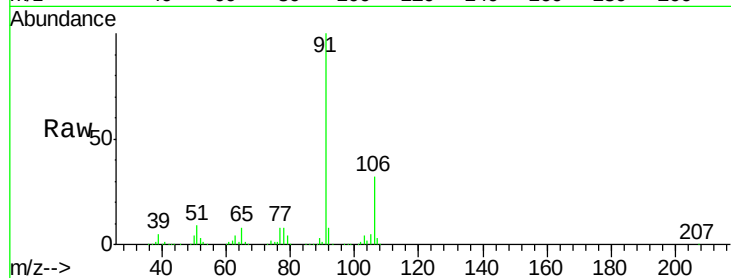
ClientSampleId :

Tot Ion: 91 Resp: 533011

Ion Ratio Lower Upper

91 100

106 31.5 22.3 41.5



#53

m,p-Xylene

Concen: 49.444 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU025546.D

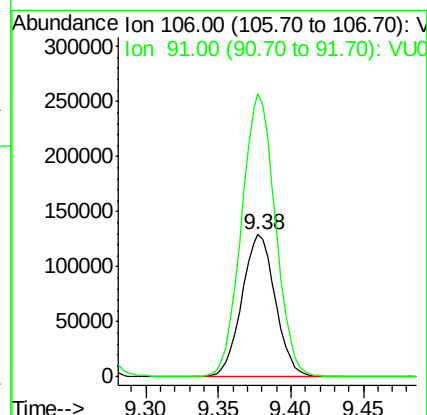
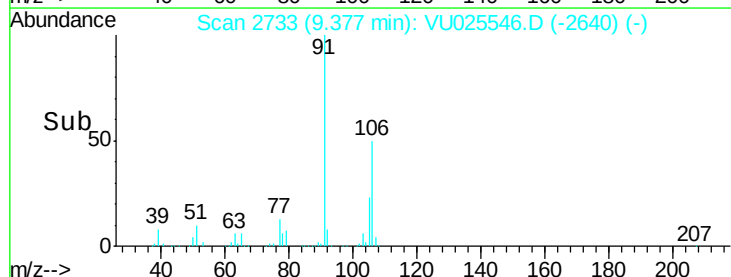
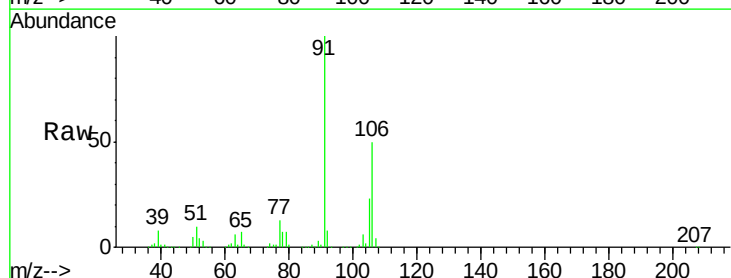
Acq: 20 Jul 2018 16:57

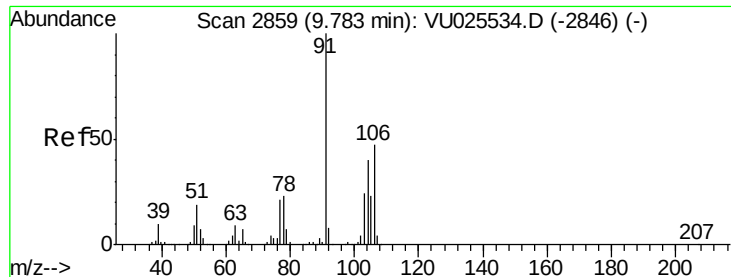
Tgt Ion: 106 Resp: 206669

Ion Ratio Lower Upper

106 100

91 199.3 141.7 263.3





#54

o-xylene

Concen: 48.974 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

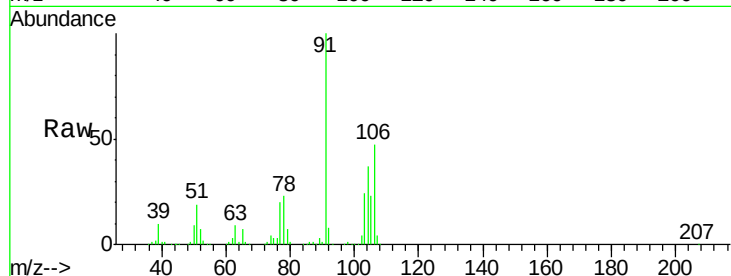
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 207713

Ion Ratio Lower Upper

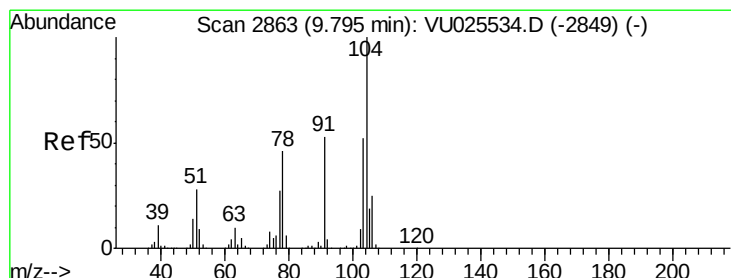
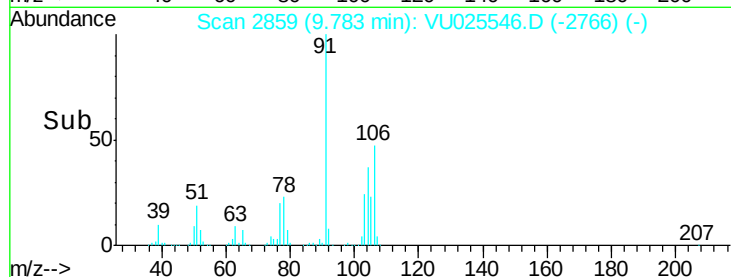
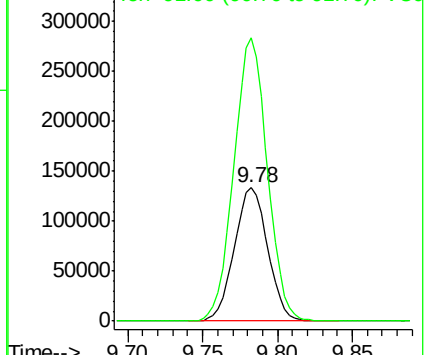
106 100

91 212.8 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.027 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU025546.D

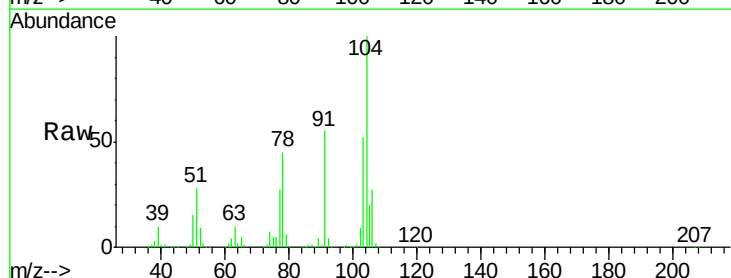
Acq: 20 Jul 2018 16:57

Tgt Ion:104 Resp: 345574

Ion Ratio Lower Upper

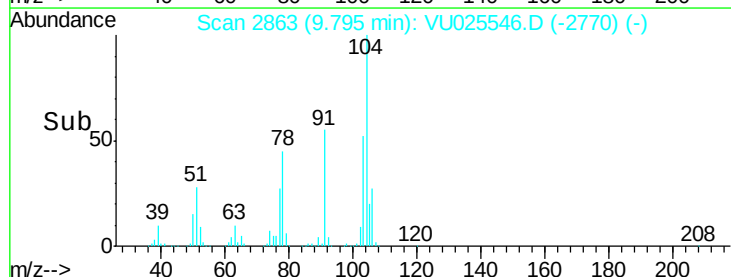
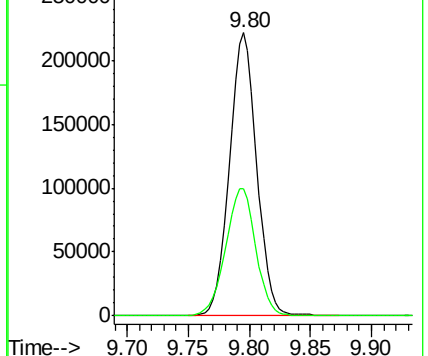
104 100

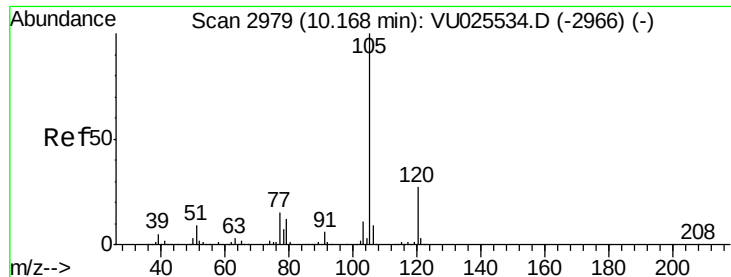
78 45.0 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.419 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

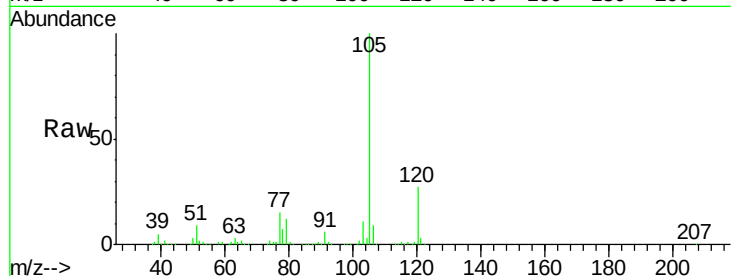
Tot Ion:105 Resp: 540919

Ion Ratio Lower Upper

105 100

120 26.8 21.7 32.5

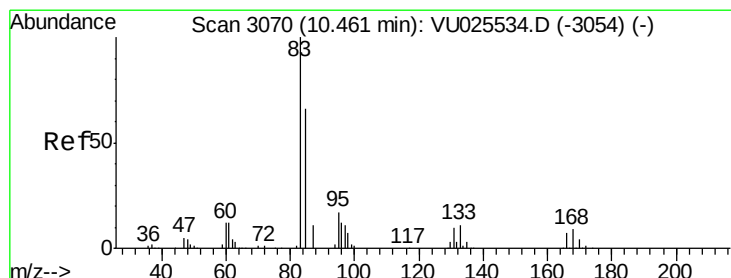
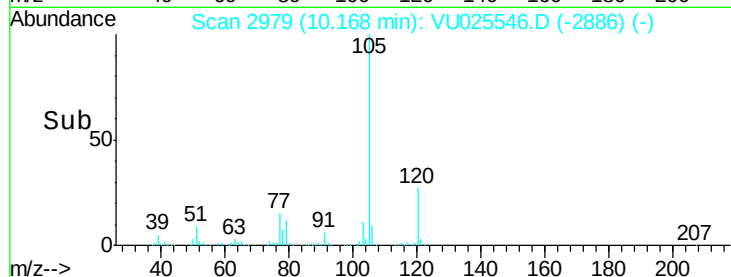
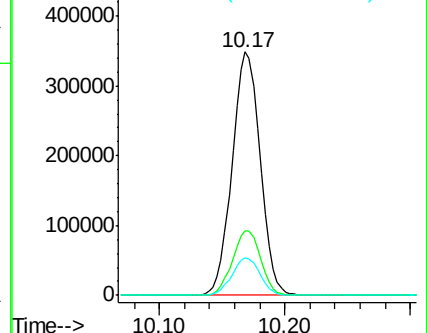
77 15.5 12.4 18.6



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 48.656 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

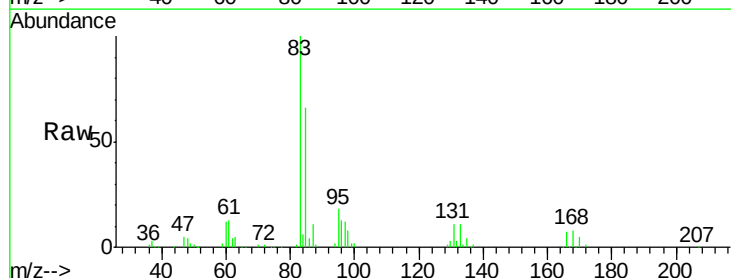
Tgt Ion: 83 Resp: 188600

Ion Ratio Lower Upper

83 100

85 66.4 45.1 83.7

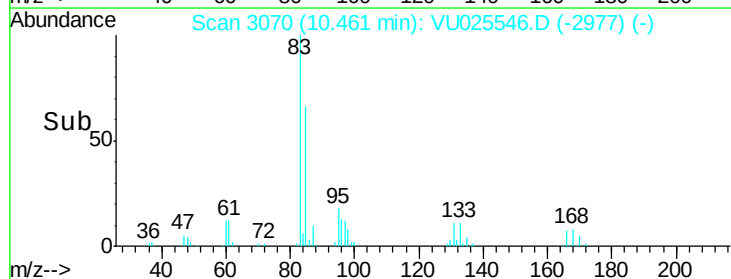
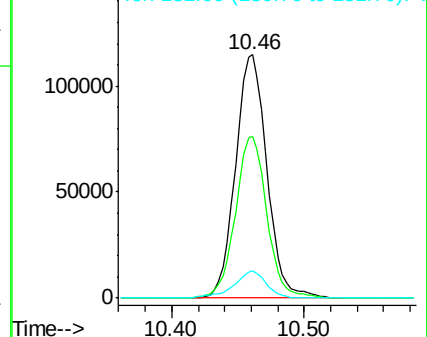
131 11.0 8.7 13.1

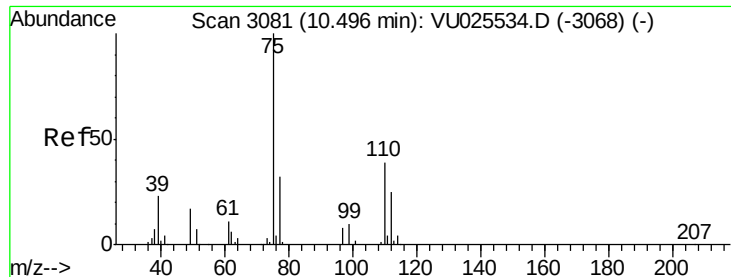


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.253 ug/L

RT: 10.50 min Scan# 3081

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Instrument :

MSVOA_U

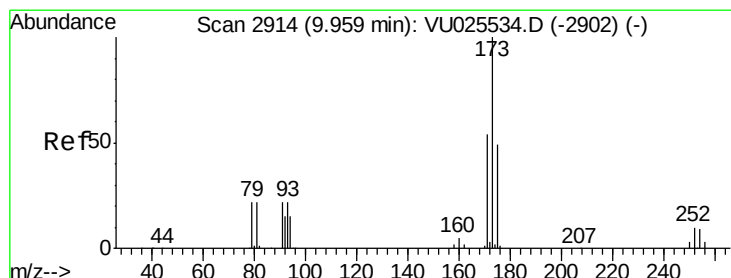
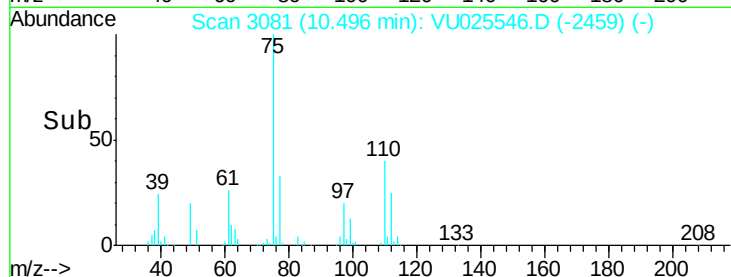
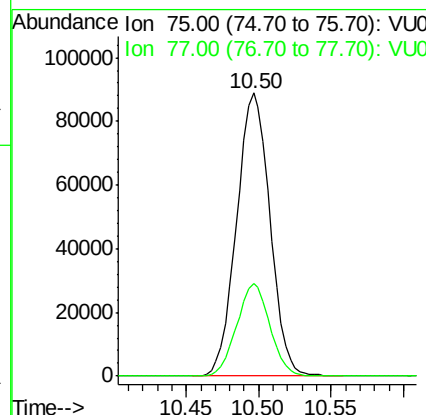
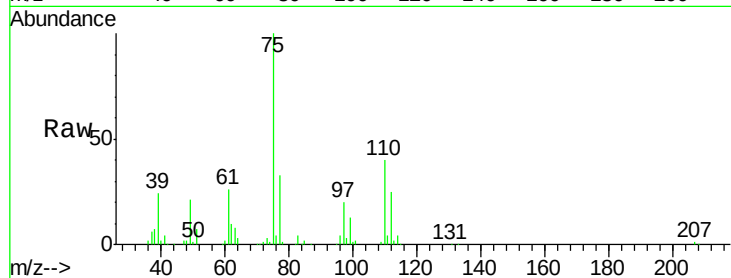
ClientSampleId :

Tot Ion: 75 Resp: 141993

Ion Ratio Lower Upper

75 100

77 32.5 25.8 38.8



#61

Bromoform

Concen: 48.457 ug/L

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

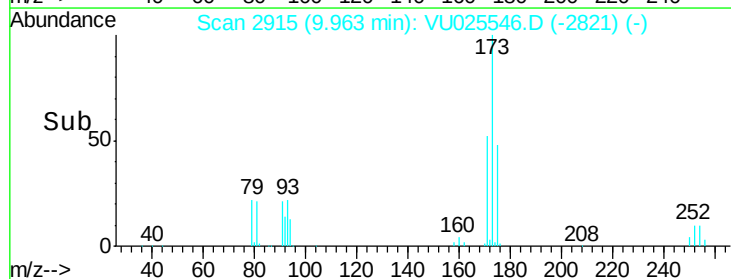
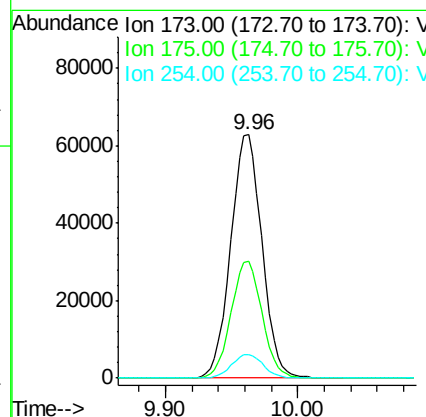
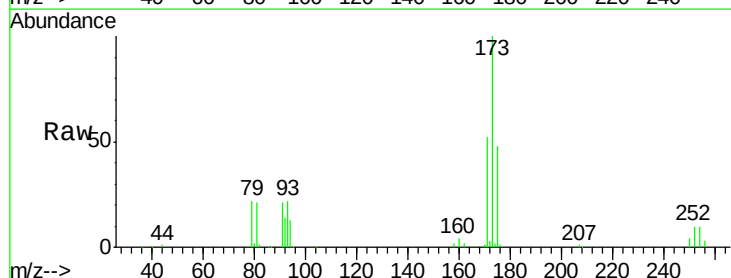
Tgt Ion: 173 Resp: 102926

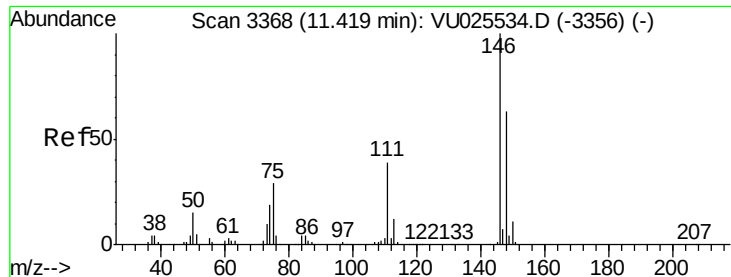
Ion Ratio Lower Upper

173 100

175 47.6 39.8 59.8

254 9.8 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 48.726 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

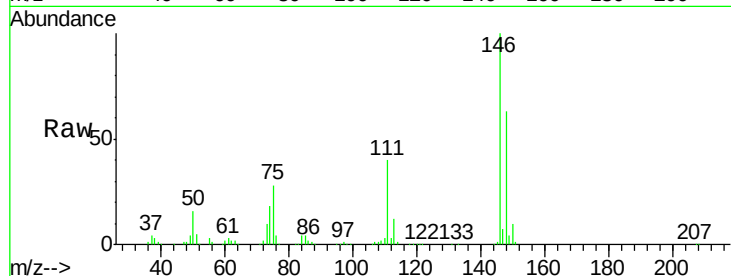
Tot Ion:146 Resp: 253097

Ion Ratio Lower Upper

146 100

111 39.7 27.7 51.5

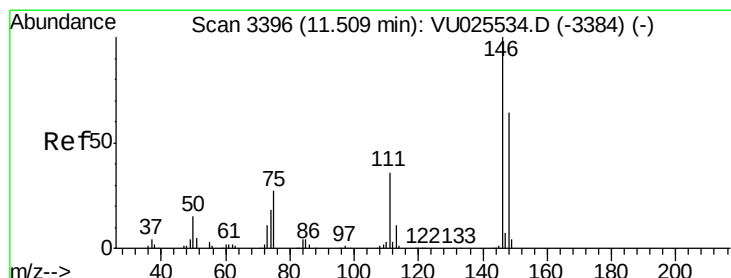
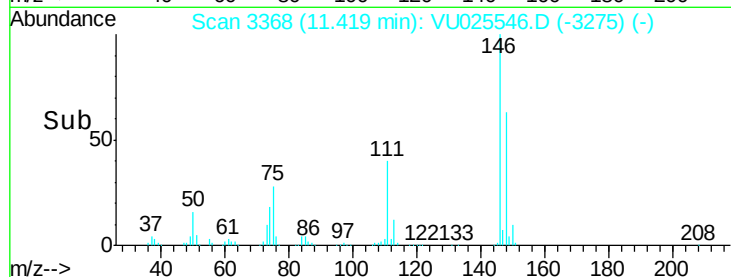
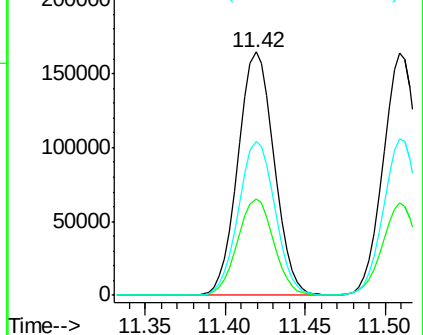
148 63.0 45.5 84.5



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: 47.843 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

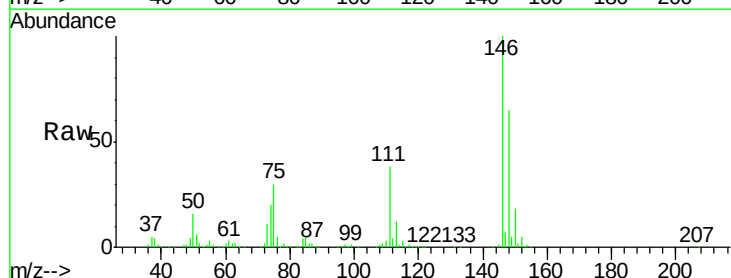
Tgt Ion:146 Resp: 253675

Ion Ratio Lower Upper

146 100

111 38.1 26.9 49.9

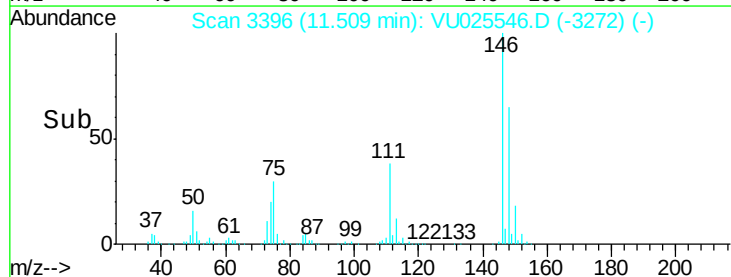
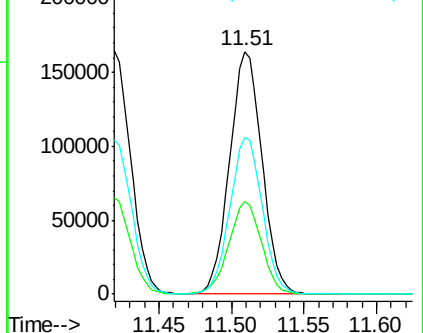
148 64.7 44.6 82.8

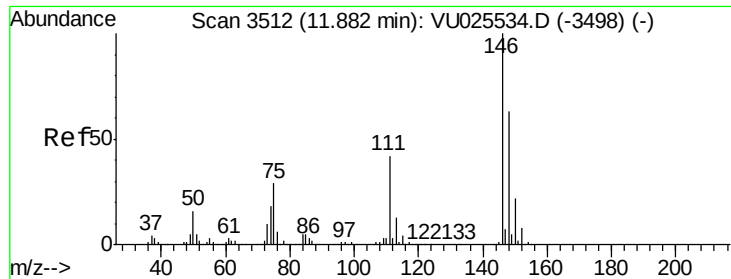


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

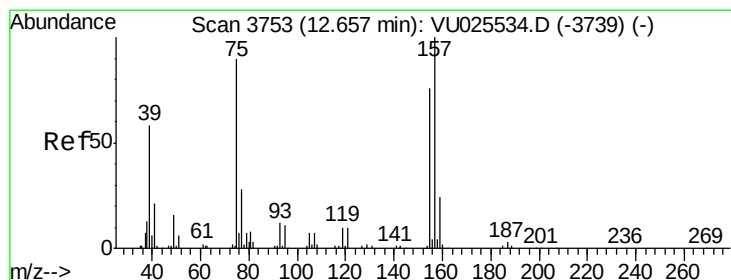
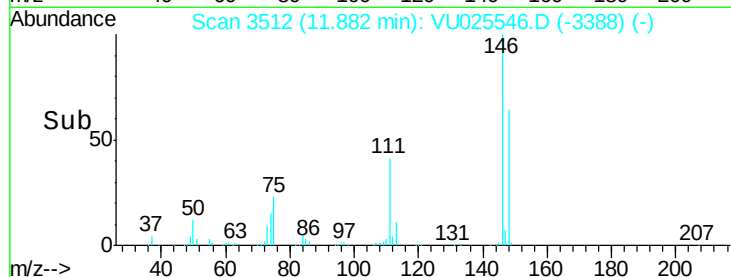
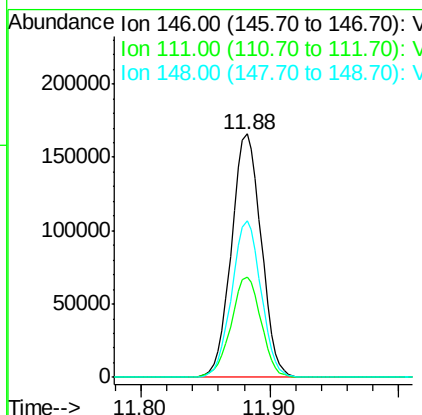
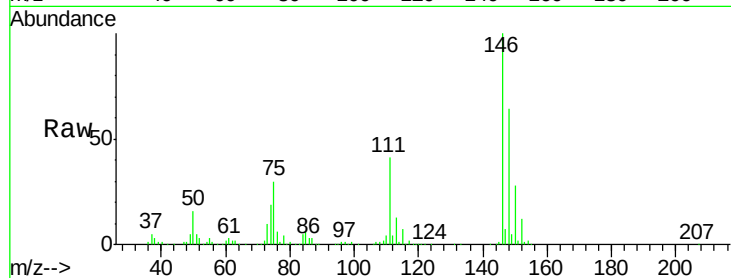




#65
 1,2-Dichlorobenzene
 Concen: 48.907 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025546.D
 Acq: 20 Jul 2018 16:57

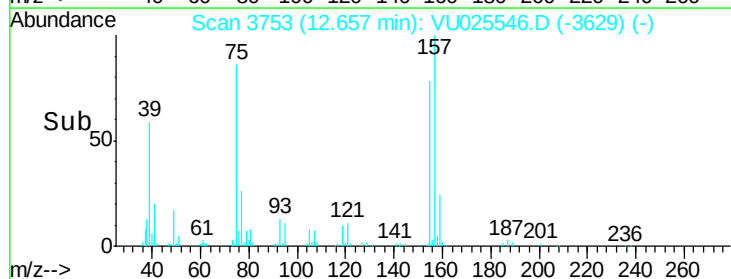
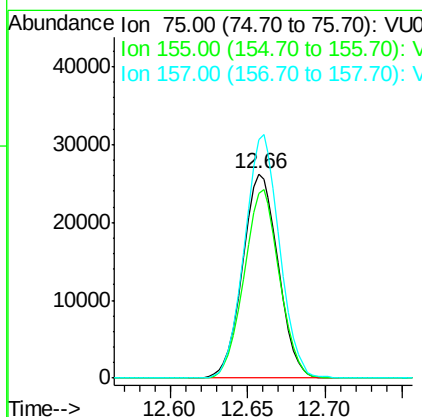
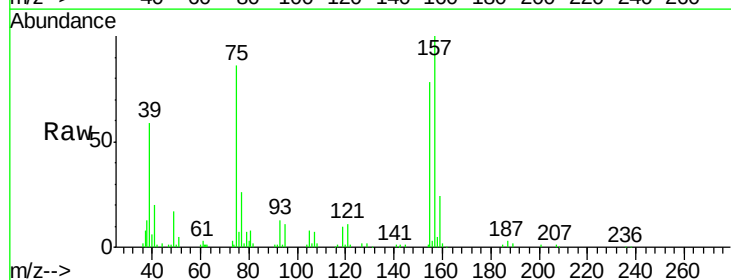
Instrument :
 MSVOA_U
 ClientSampled :

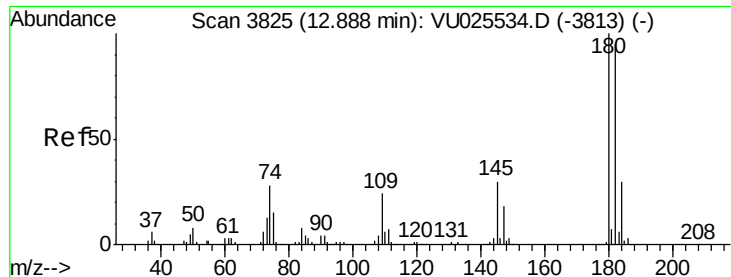
Tot Ion:146 Resp: 266141
 Ion Ratio Lower Upper
 146 100
 111 41.3 32.4 48.6
 148 64.1 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 49.034 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VU025546.D
 Acq: 20 Jul 2018 16:57

Tgt Ion: 75 Resp: 41965
 Ion Ratio Lower Upper
 75 100
 155 90.7 66.3 99.5
 157 116.7 91.5 137.3

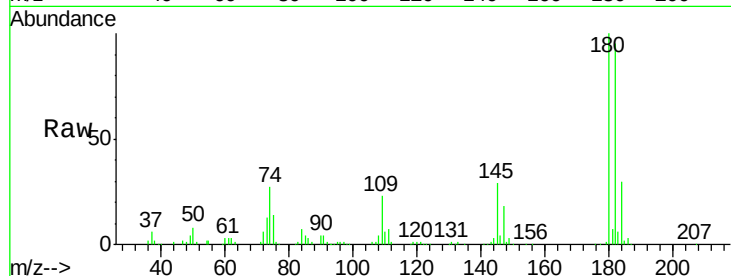




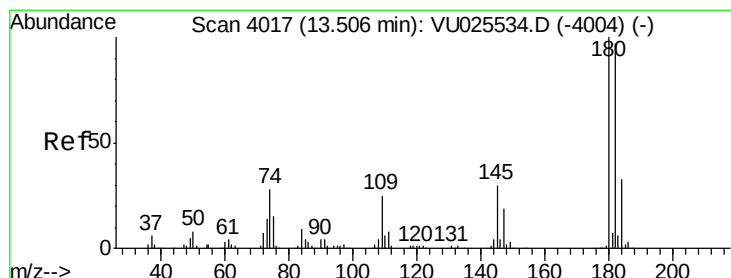
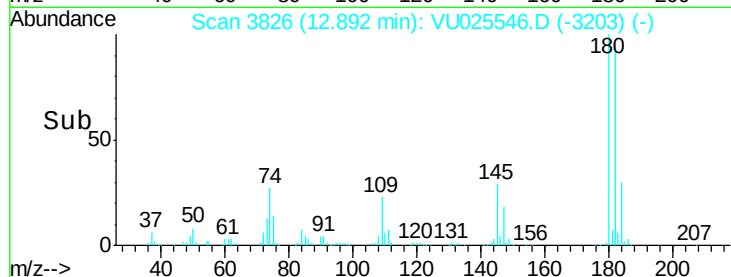
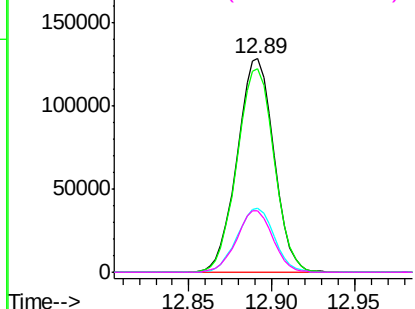
#67
 1,3,5-Trichlorobenzene
 Concen: 49.161 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU025546.D
 Acq: 20 Jul 2018 16:57

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	197110
Ion Ratio	Lower	Upper
180	100	
182	96.6	77.3 115.9
184	30.2	24.6 36.8
145	28.4	23.0 34.6

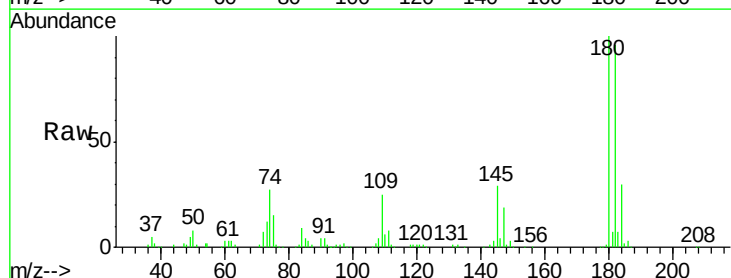


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

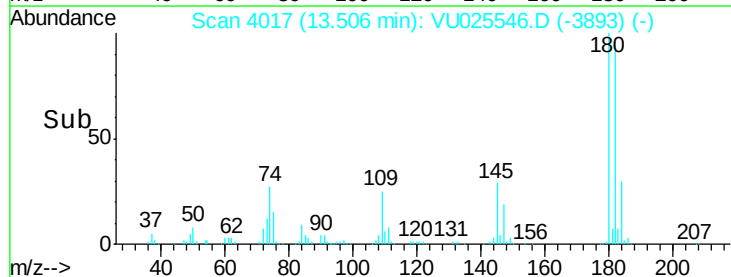
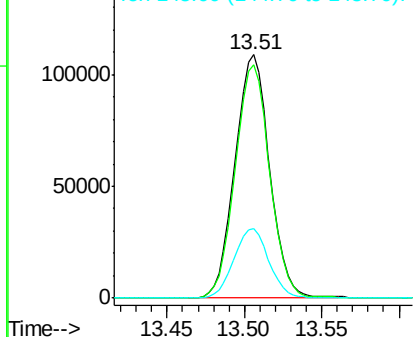


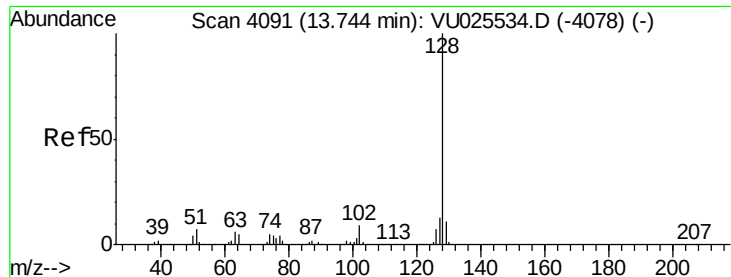
#68
 1,2,4-trichlorobenzene
 Concen: 50.339 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025546.D
 Acq: 20 Jul 2018 16:57

Tgt Ion:180	Resp:	169628
Ion Ratio	Lower	Upper
180	100	
182	95.8	78.1 117.1
145	29.0	23.4 35.2



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: 52.587 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. -0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

Instrument :

MSVOA_U

ClientSampleId :

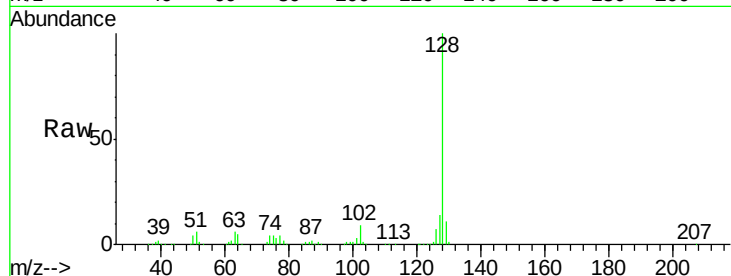
Tot Ion:128 Resp: 532902

Ion Ratio Lower Upper

128 100

127 13.2 10.2 15.4

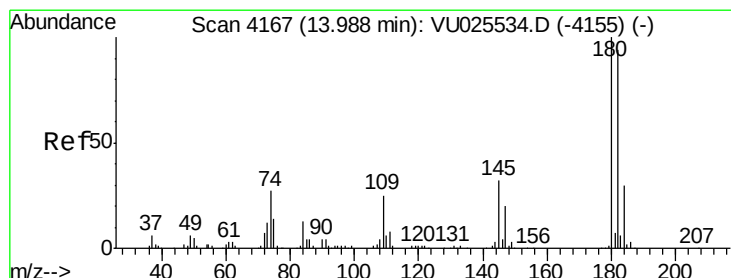
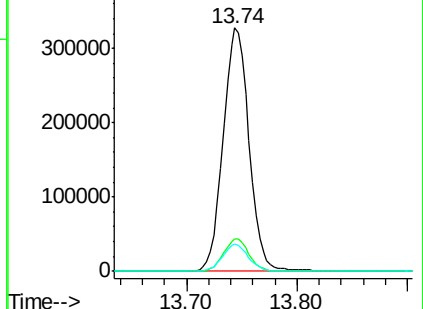
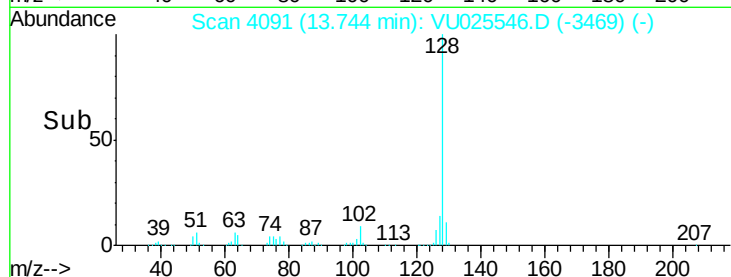
129 11.0 8.4 12.6



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: 50.649 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. 0.00 min

Lab File: VU025546.D

Acq: 20 Jul 2018 16:57

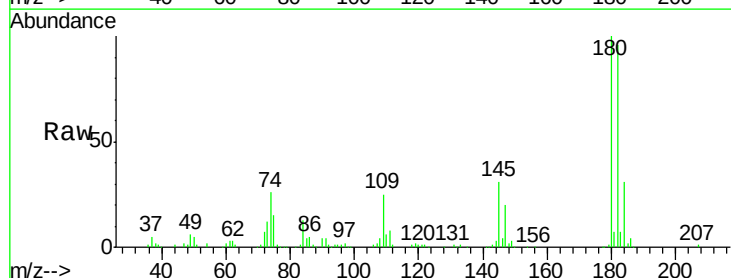
Tgt Ion:180 Resp: 180422

Ion Ratio Lower Upper

180 100

182 95.5 76.6 114.8

145 31.1 25.4 38.2



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

