

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU083018\
 Data File : VU026461.D
 Acq On : 30 Aug 2018 20:49
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 31 04:26:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082918WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 31 04:22:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	154566	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	148153	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	73578	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	39334	41.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.14%
7) Chloroethane-d5	1.68	69	37951	43.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.76%
11) 1,1-Dichloroethene-d2	2.27	63	87016	40.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.70%
21) 2-Butanone-d5	4.18	46	72547	97.60	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.60%
24) Chloroform-d	4.65	84	85812	47.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.88%
26) 1,2-Dichloroethane-d4	5.31	65	56539	46.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.90%
32) Benzene-d6	5.34	84	167436	49.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.06%
36) 1,2-Dichloropropane-d6	6.33	67	56818	48.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.88%
41) Toluene-d8	7.57	98	160247	48.61	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.22%
43) trans-1,3-Dichloropropene-	7.85	79	24972	46.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.24%
47) 2-Hexanone-d5	8.31	63	55644	103.43	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.43%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	84595	48.95	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.90%
64) 1,2-Dichlorobenzene-d4	11.86	152	67658	50.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.36%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	58997	48.952	ug/L 98
3) Chloromethane	1.33	50	75338	50.626	ug/L 100
5) Vinyl chloride	1.40	62	80527	49.915	ug/L 100
6) Bromomethane	1.62	94	49114	51.351	ug/L 99
8) Chloroethane	1.70	64	50406	52.039	ug/L 99
9) Trichlorofluoromethane	1.88	101	104073	50.730	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	52734	46.069	ug/L 98
12) 1,1-Dichloroethene	2.28	96	50301	45.592	ug/L 88
13) Acetone	2.32	43	58699	91.203	ug/L 99
14) Carbon disulfide	2.48	76	154846	49.595	ug/L 99
15) Methyl Acetate	2.62	43	64066	50.695	ug/L 98
16) Methylene chloride	2.70	84	58580	51.643	ug/L 98
17) trans-1,2-Dichloroethene	2.98	96	51575	51.682	ug/L 96
18) Methyl tert-butyl Ether	3.00	73	161684	53.371	ug/L 100
19) 1,1-Dichloroethane	3.45	63	102137	52.088	ug/L 98
20) cis-1,2-Dichloroethene	4.23	96	58718	52.524	ug/L 99
22) 2-Butanone	4.27	43	87672	101.343	ug/L 99

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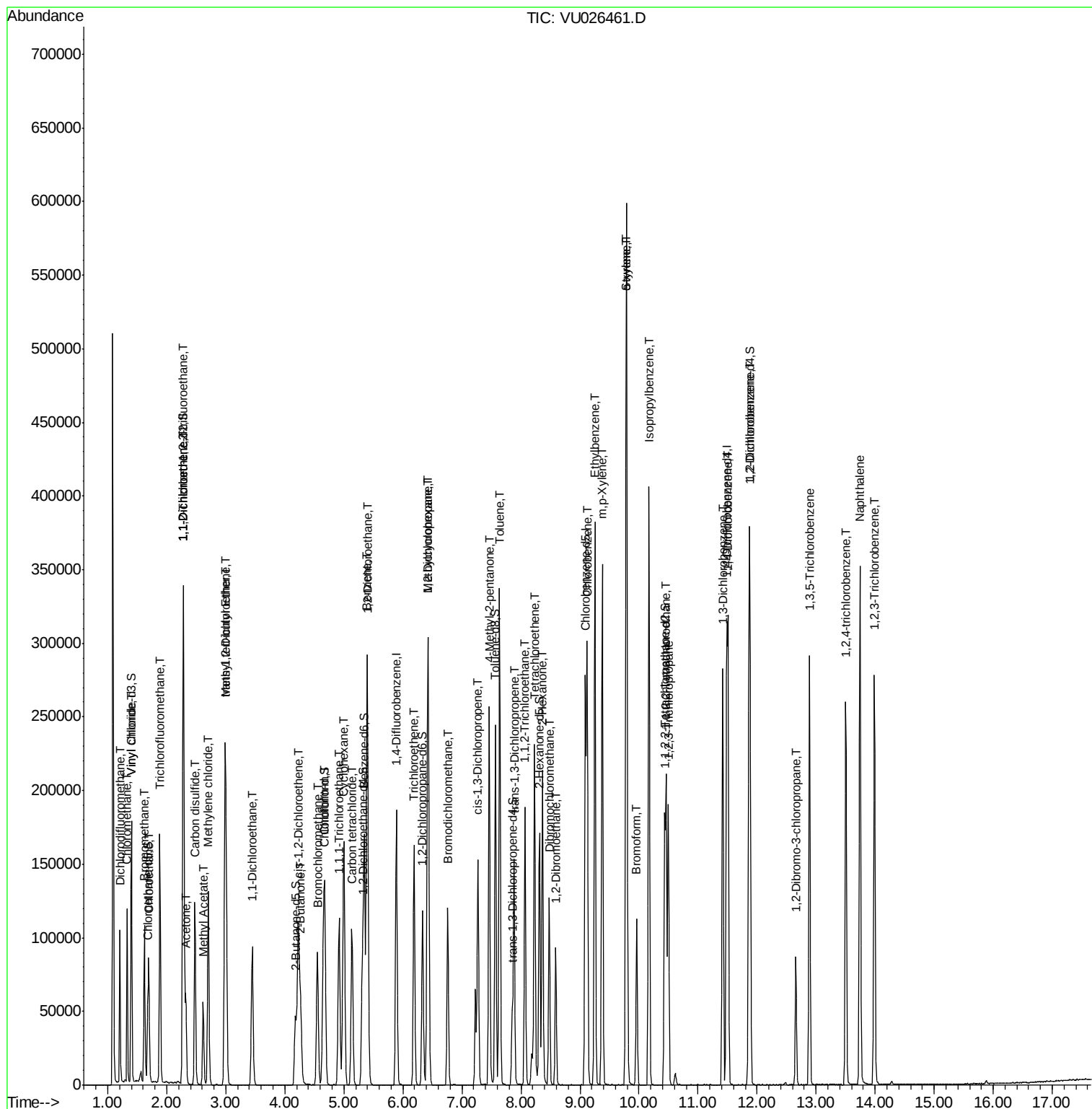
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	30495	52.947	ug/L	94
25) Chloroform	4.68	83	104725	52.296	ug/L	98
27) 1,2-Dichloroethane	5.41	62	84008	52.015	ug/L	97
29) Cyclohexane	5.00	56	85246	52.810	ug/L	98
30) 1,1,1-Trichloroethane	4.92	97	86171	52.855	ug/L	99
31) Carbon tetrachloride	5.14	117	77921	52.601	ug/L	99
33) Benzene	5.39	78	227656	53.599	ug/L	100
34) Trichloroethene	6.19	95	55952	52.519	ug/L	98
35) Methylcyclohexane	6.42	83	87597	52.657	ug/L	98
37) 1,2-Dichloropropane	6.44	63	62927	53.517	ug/L	100
38) Bromodichloromethane	6.76	83	77397	51.617	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	87590	52.279	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	169849	107.109	ug/L	100
42) Toluene	7.64	91	239221	53.977	ug/L	96
44) trans-1,3-Dichloropropene	7.88	75	81990	51.343	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	56646	52.587	ug/L	99
46) Tetrachloroethene	8.23	164	49222	56.510	ug/L	97
48) 2-Hexanone	8.36	43	136503	109.297	ug/L	99
49) Dibromochloromethane	8.48	129	64906	53.477	ug/L	98
50) 1,2-Dibromoethane	8.59	107	61416	53.542	ug/L	98
51) Chlorobenzene	9.12	112	153322	51.733	ug/L	97
52) Ethylbenzene	9.25	91	257043	53.326	ug/L	99
53) m,p-Xylene	9.38	106	98430	54.689	ug/L	98
54) o-xylene	9.78	106	97097	55.321	ug/L	97
55) Styrene	9.79	104	168753	55.038	ug/L	97
56) Isopropylbenzene	10.17	105	248845	54.163	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	99975	52.689	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	75655	51.564	ug/L	99
61) Bromoform	9.96	173	50866	56.013	ug/L	100
62) 1,3-Dichlorobenzene	11.42	146	114797	53.318	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	117588	51.635	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	123061	54.189	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	20650	54.078	ug/L	98
67) 1,3,5-Trichlorobenzene	12.89	180	92373	53.163	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	81216	53.515	ug/L	98
69) Naphthalene	13.74	128	267621	56.479	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	90029	54.026	ug/L	99

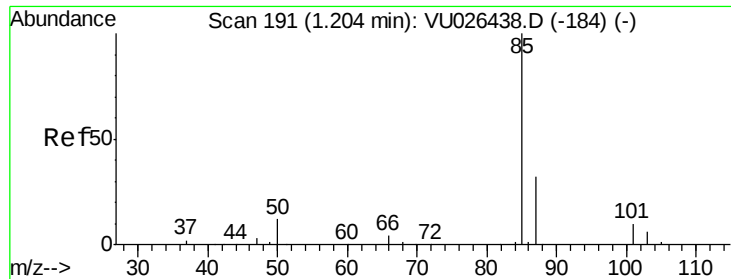
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_U
ClientSampleId :

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#2

Dichlorodifluoromethane

Concen: 48.952 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

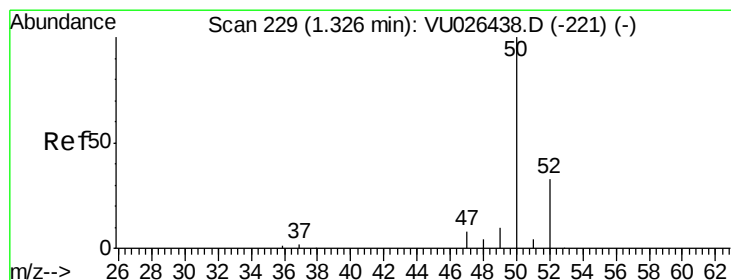
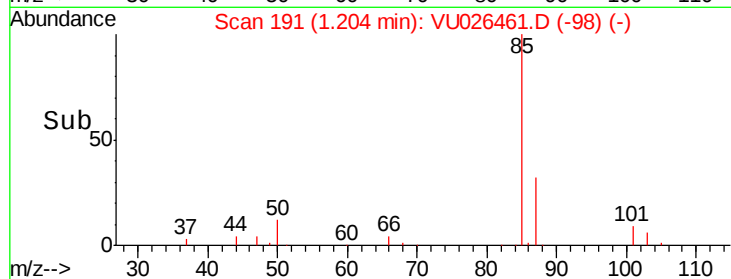
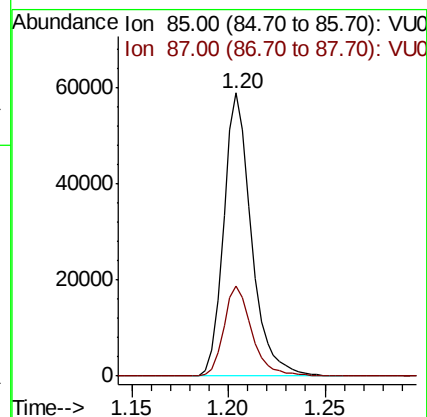
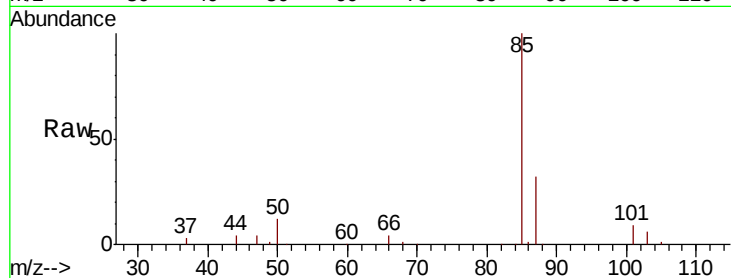
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 58997

Ion Ratio Lower Upper

85 100

87 32.1 26.6 39.8



#3

Chloromethane

Concen: 50.626 ug/L

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU026461.D

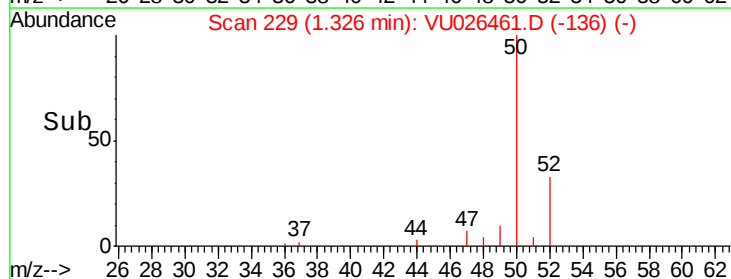
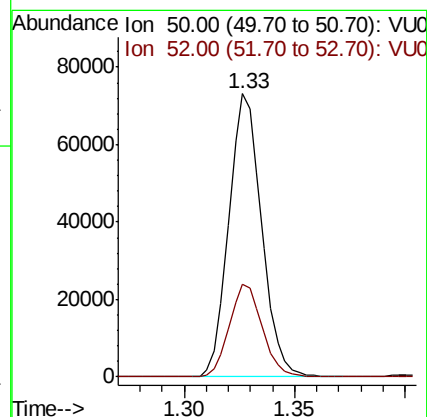
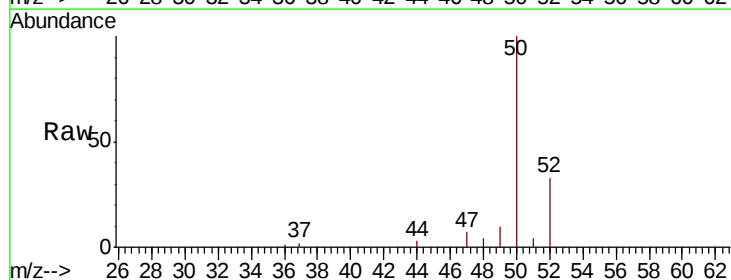
Acq: 30 Aug 2018 20:49

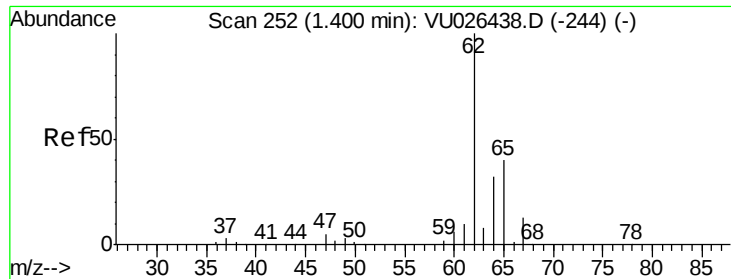
Tgt Ion: 50 Resp: 75338

Ion Ratio Lower Upper

50 100

52 32.5 23.0 42.6





#5

Vinyl chloride

Concen: 49.915 ug/L

RT: 1.40 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

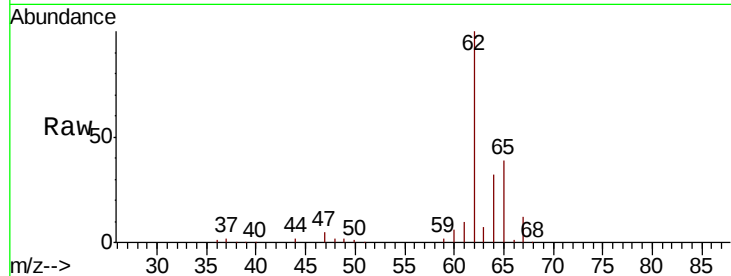
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 80527

Ion Ratio Lower Upper

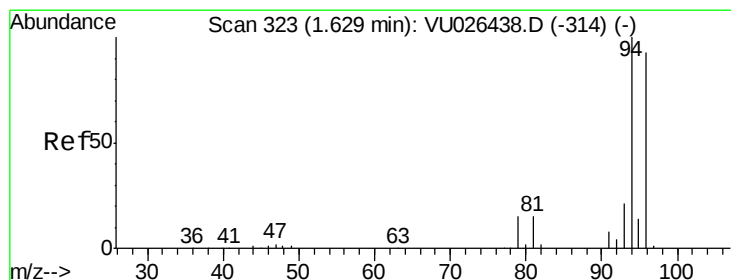
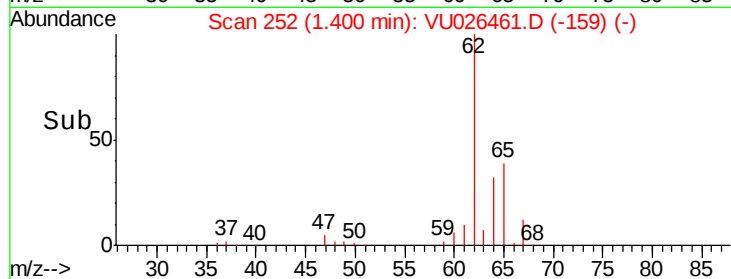
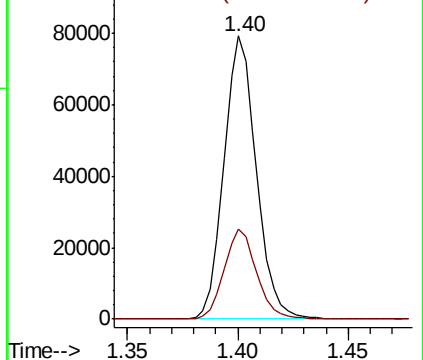
62 100

64 31.8 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 51.351 ug/L

RT: 1.62 min Scan# 321

Delta R.T. -0.01 min

Lab File: VU026461.D

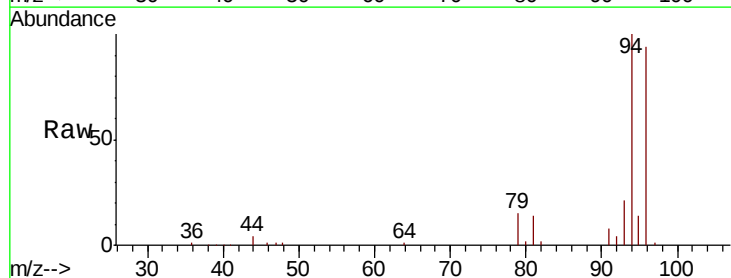
Acq: 30 Aug 2018 20:49

Tgt Ion: 94 Resp: 49114

Ion Ratio Lower Upper

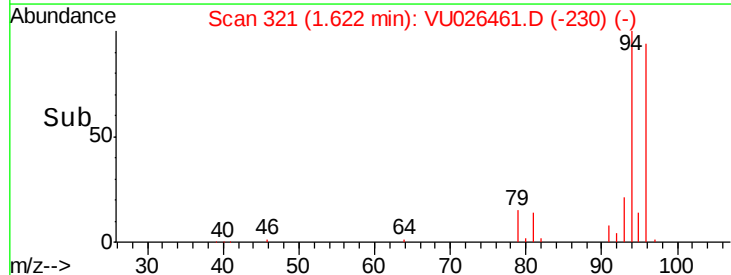
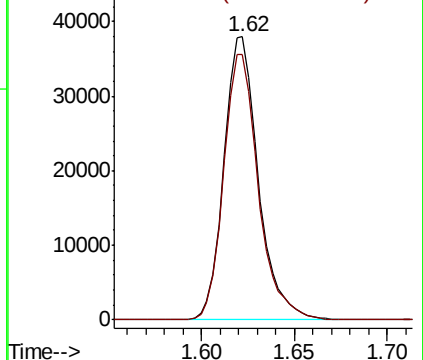
94 100

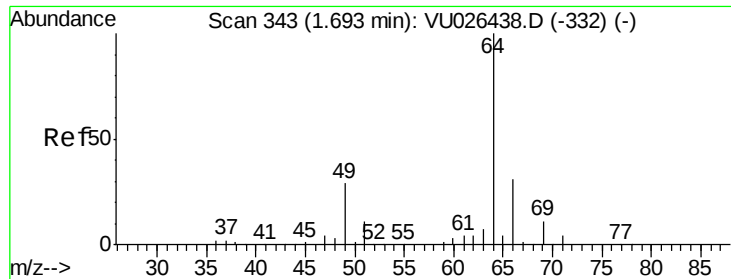
96 93.9 65.3 121.3



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 52.039 ug/L

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

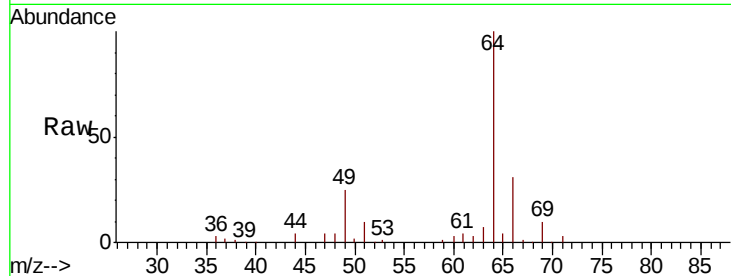
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 50406

Ion Ratio Lower Upper

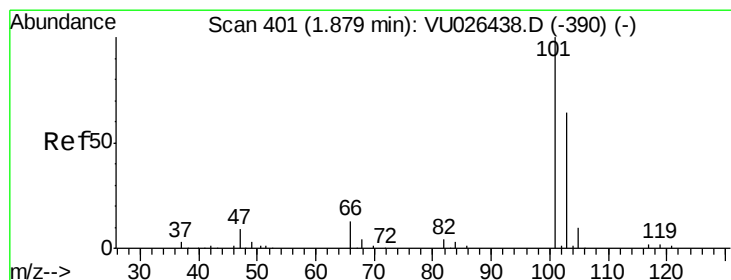
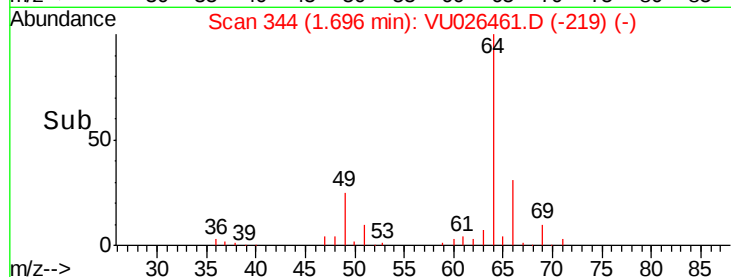
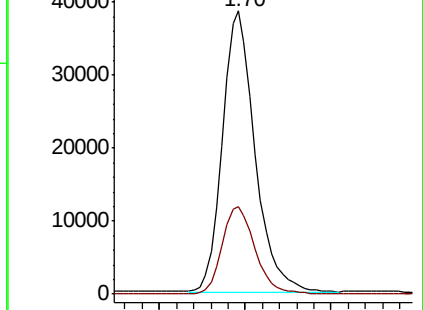
64 100

66 31.0 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VU026461.D (-219) (-)

Ion 66.00 (65.70 to 66.70): VU026461.D (-219) (-)



#9

Trichlorofluoromethane

Concen: 50.730 ug/L

RT: 1.88 min Scan# 402

Delta R.T. 0.00 min

Lab File: VU026461.D

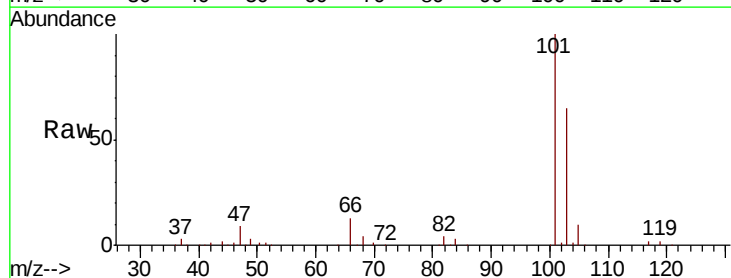
Acq: 30 Aug 2018 20:49

Tgt Ion:101 Resp: 104073

Ion Ratio Lower Upper

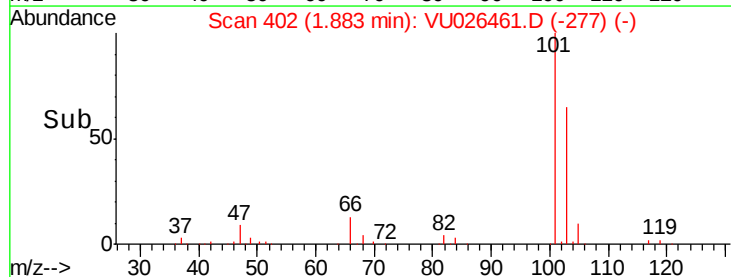
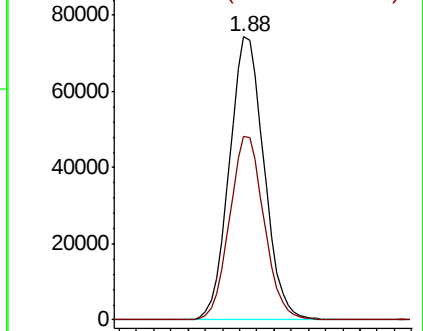
101 100

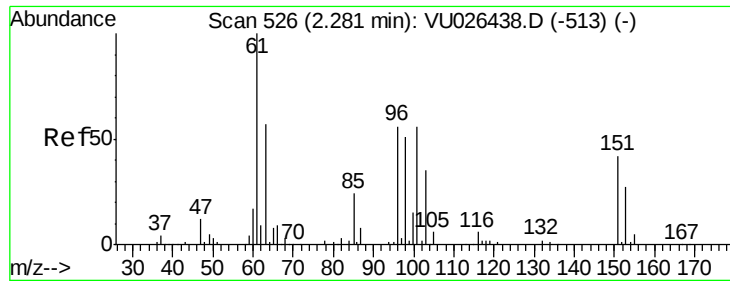
103 64.5 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): VU026461.D (-277) (-)

Ion 103.00 (102.70 to 103.70): VU026461.D (-277) (-)





#10

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

Concen: 46.069 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Instrument :

MSVOA_U

ClientSampleId :

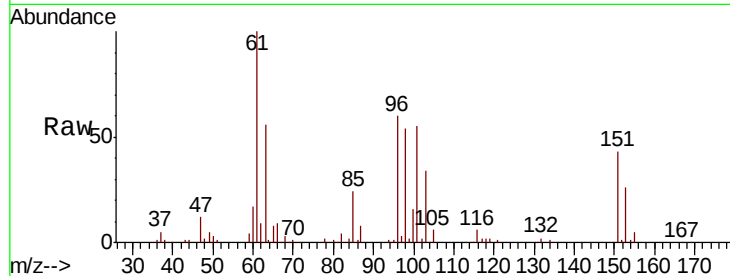
Tot Ion:101 Resp: 52734

Ion Ratio Lower Upper

101 100

85 43.5 35.3 52.9

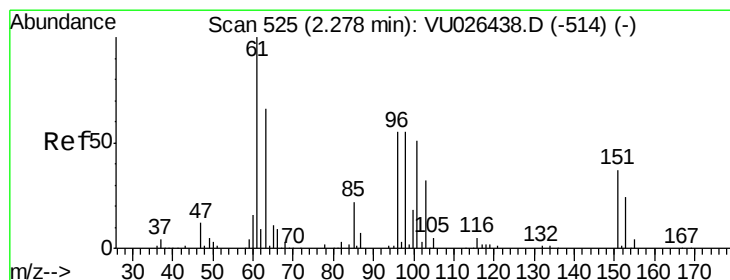
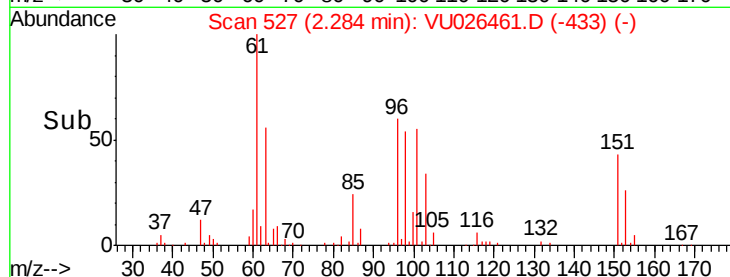
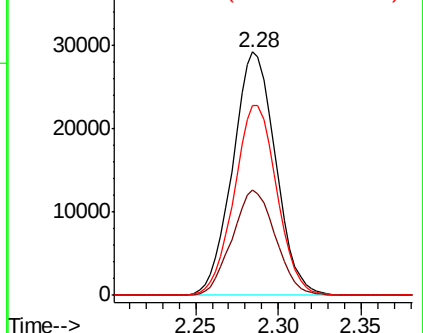
151 77.7 60.7 91.1



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: 45.592 ug/L

RT: 2.28 min Scan# 526

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

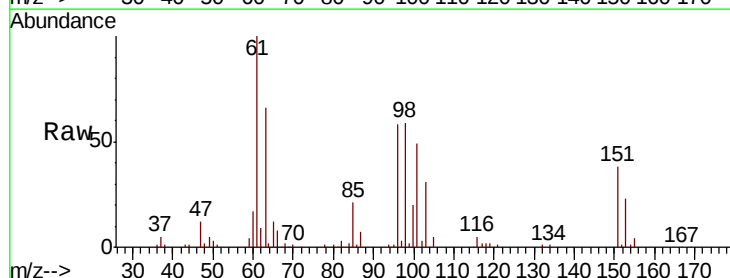
Tgt Ion: 96 Resp: 50301

Ion Ratio Lower Upper

96 100

61 171.5 129.3 240.1

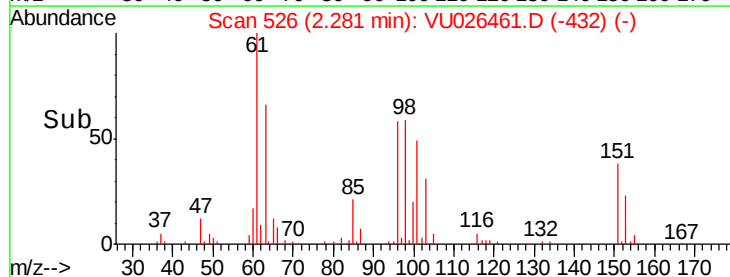
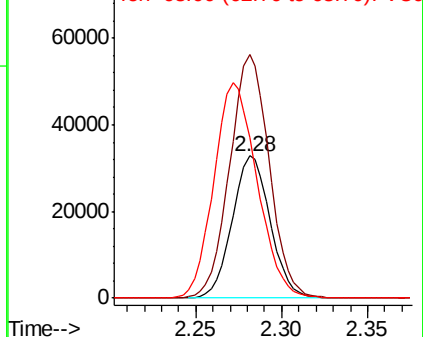
63 112.6 91.7 170.3

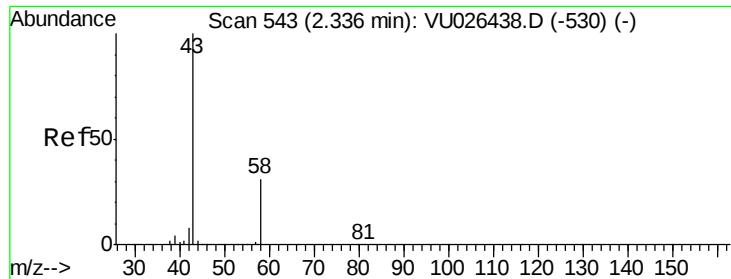


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 91.203 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.02 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Instrument :

MSVOA_U

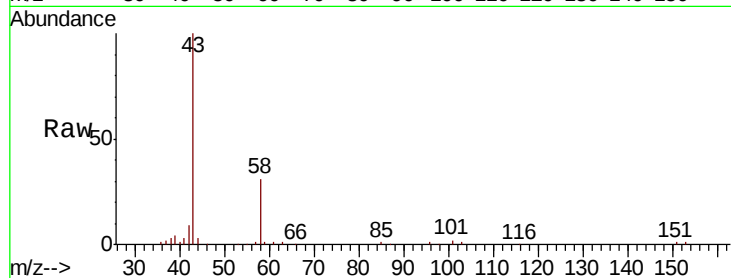
ClientSampleId :

Tot Ion: 43 Resp: 58699

Ion Ratio Lower Upper

43 100

58 31.2 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

40000

30000

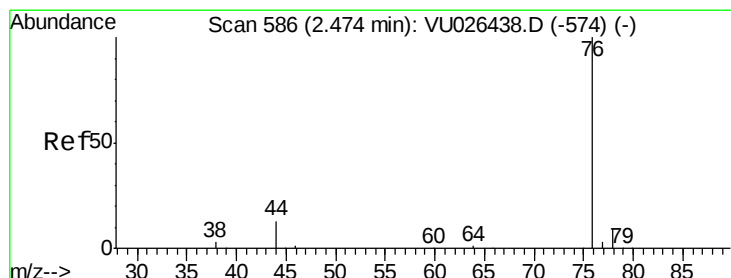
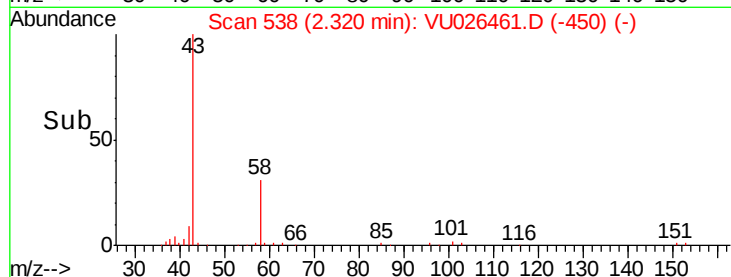
20000

10000

0

Time-->

2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 49.595 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU026461.D

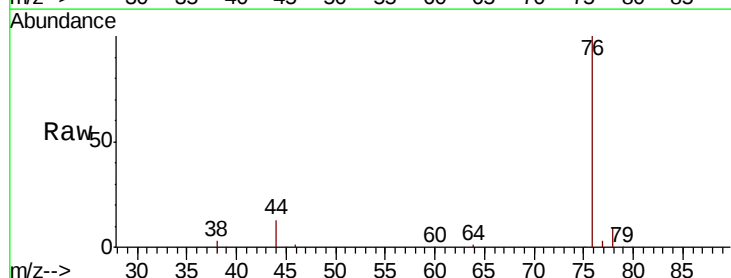
Acq: 30 Aug 2018 20:49

Tgt Ion: 76 Resp: 154846

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.48

100000

80000

60000

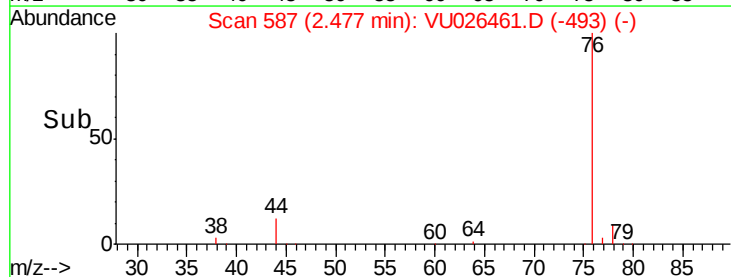
40000

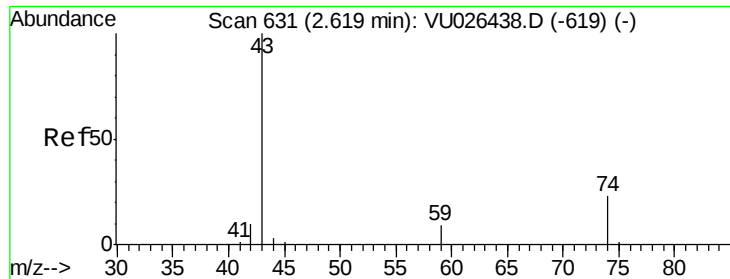
20000

0

Time-->

2.40 2.45 2.50 2.55 2.60

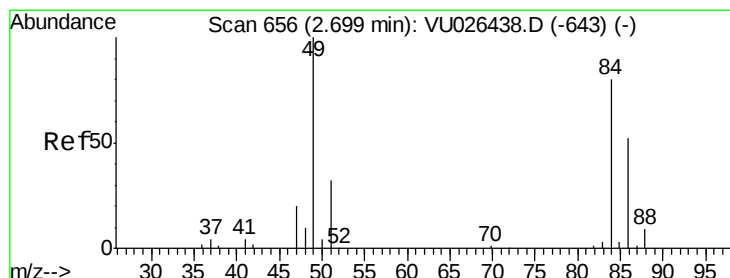
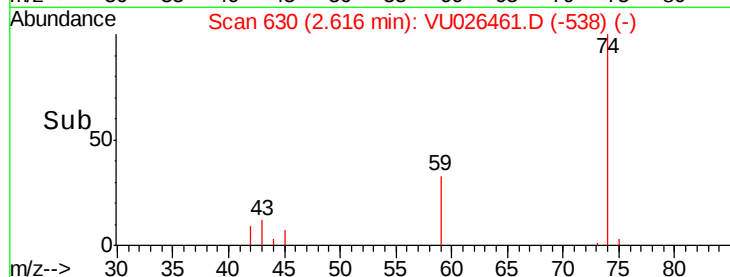
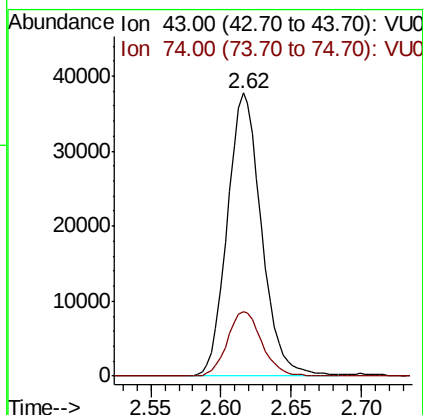
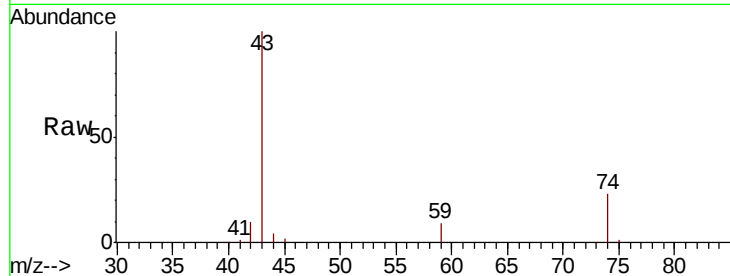




#15
Methvl Acetate
Concen: 50.695 ug/L
RT: 2.62 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU026461.D
Acq: 30 Aug 2018 20:49

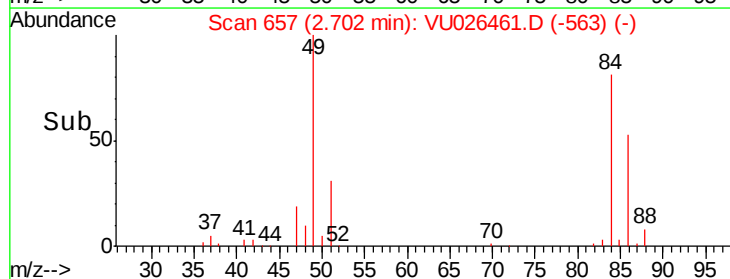
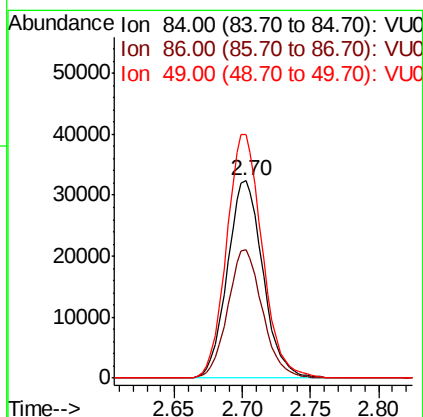
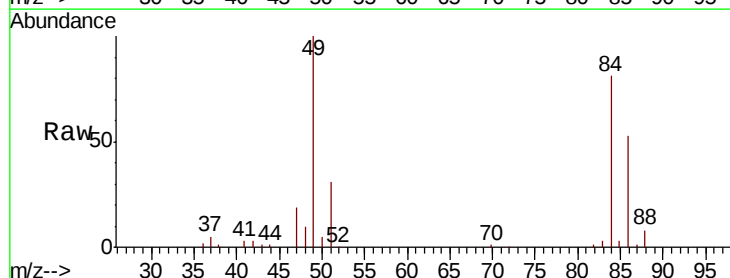
Instrument :
MSVOA_U
ClientSampleId :

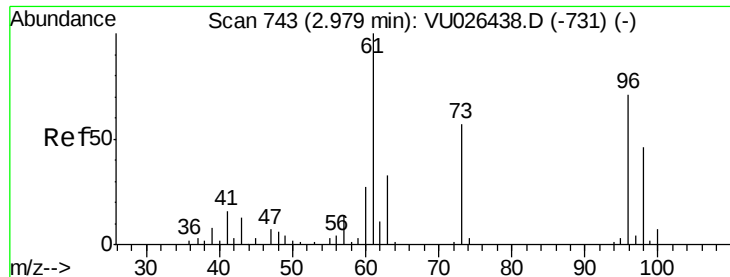
Tot Ion: 43 Resp: 64066
Ion Ratio Lower Upper
43 100
74 23.0 17.8 26.6



#16
Methylene chloride
Concen: 51.643 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU026461.D
Acq: 30 Aug 2018 20:49

Tgt Ion: 84 Resp: 58580
Ion Ratio Lower Upper
84 100
86 64.9 46.2 85.8
49 123.3 88.2 163.8





#17

trans-1,2-Dichloroethene

Concen: 51.682 ug/L

RT: 2.98 min Scan# 744

Delta R.T. 0.00 min

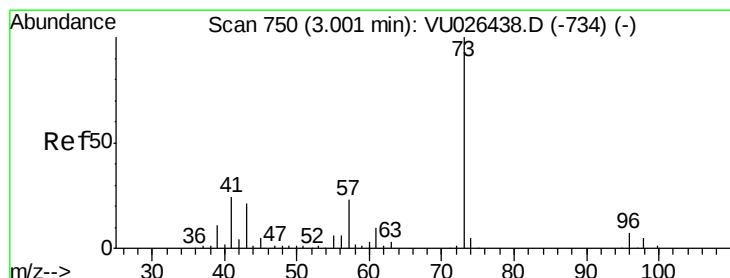
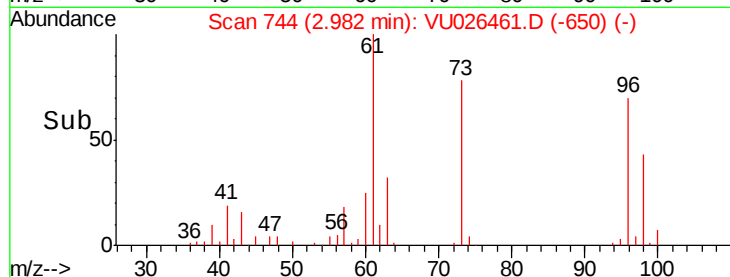
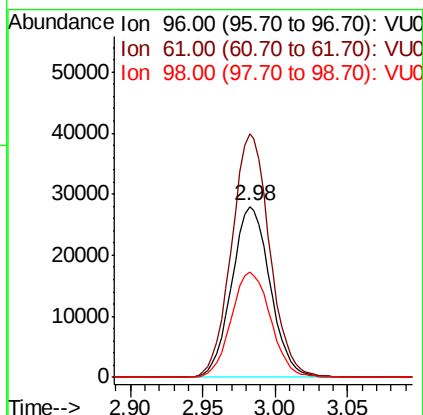
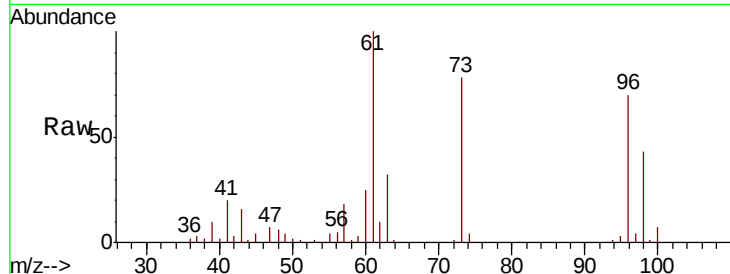
Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 96 Resp: 51575

Ion	Ratio	Lower	Upper
96	100		
61	142.5	103.2	191.6
98	61.4	44.9	83.3



#18

Methyl tert-butyl Ether

Concen: 53.371 ug/L

RT: 3.00 min Scan# 750

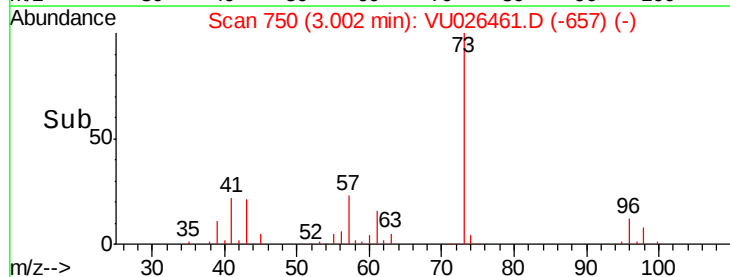
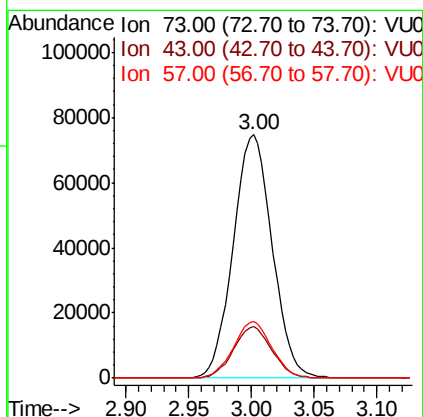
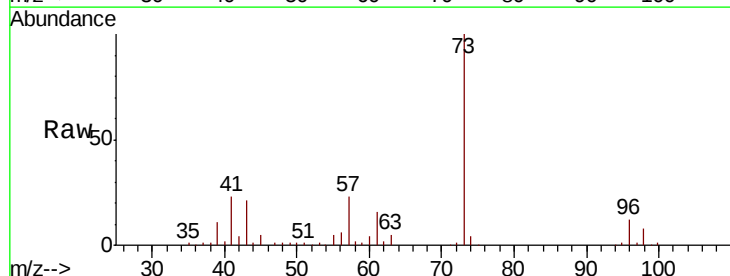
Delta R.T. 0.00 min

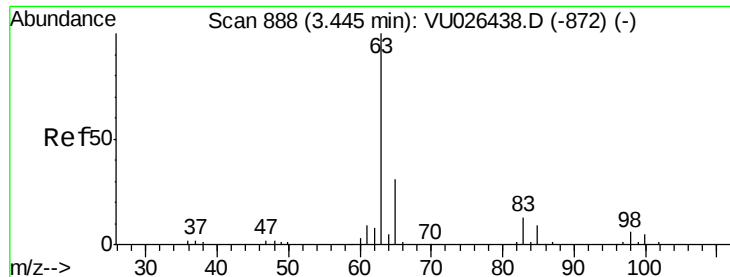
Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Tgt Ion: 73 Resp: 161684

Ion	Ratio	Lower	Upper
73	100		
43	20.7	16.6	25.0
57	22.8	18.2	27.2





#19

1,1-Dichloroethane

Concen: 52.088 ug/L

RT: 3.45 min Scan# 889

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Instrument :

MSVOA_U

ClientSampleId :

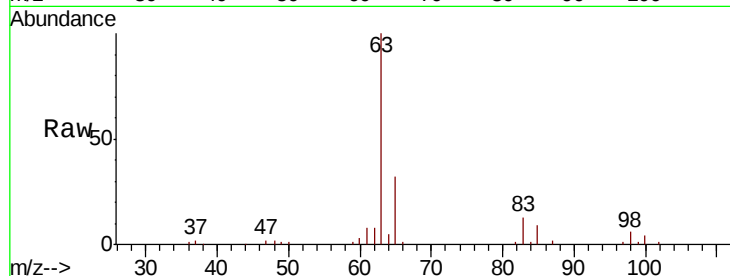
Tot Ion: 63 Resp: 102137

Ion Ratio Lower Upper

63 100

65 32.0 21.6 40.2

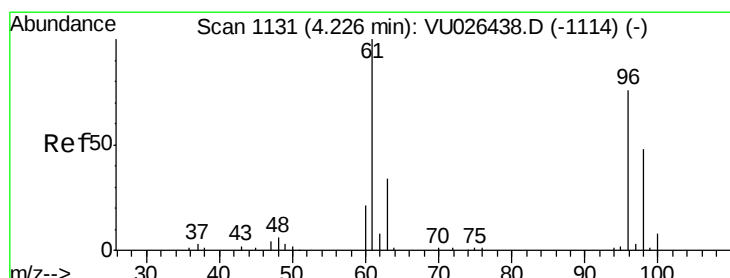
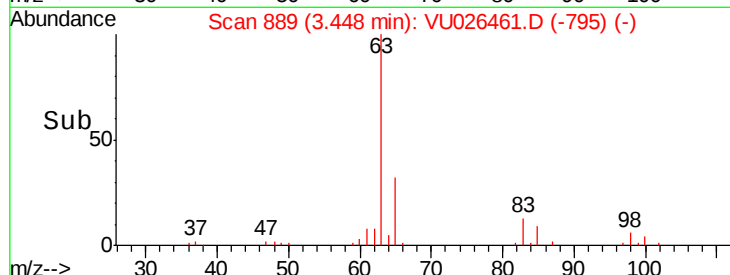
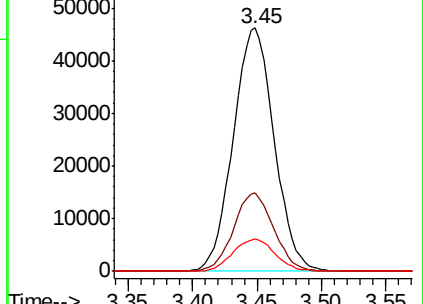
83 13.1 8.8 16.4



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 52.524 ug/L

RT: 4.23 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

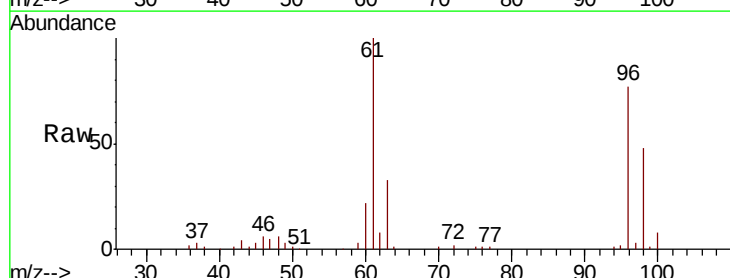
Tgt Ion: 96 Resp: 58718

Ion Ratio Lower Upper

96 100

61 129.8 91.6 170.2

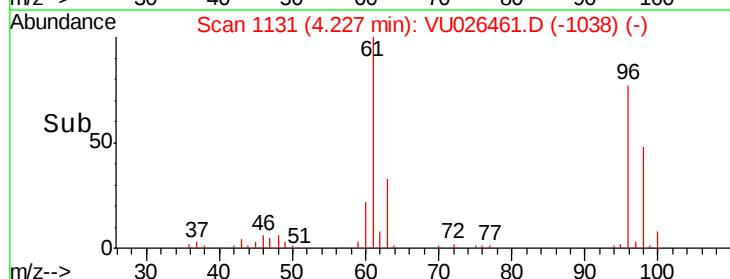
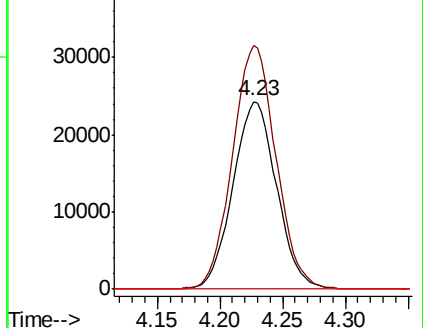
68 0.0 0.0 0.0

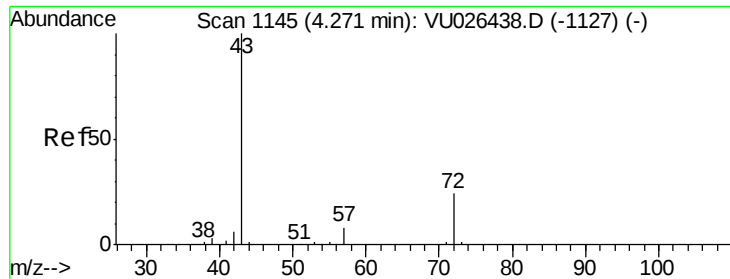


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 101.343 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Instrument :

MSVOA_U

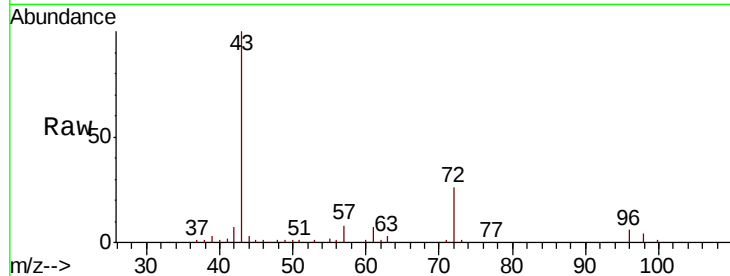
ClientSampleId :

Tot Ion: 43 Resp: 87672

Ion Ratio Lower Upper

43 100

72 26.3 13.0 38.9



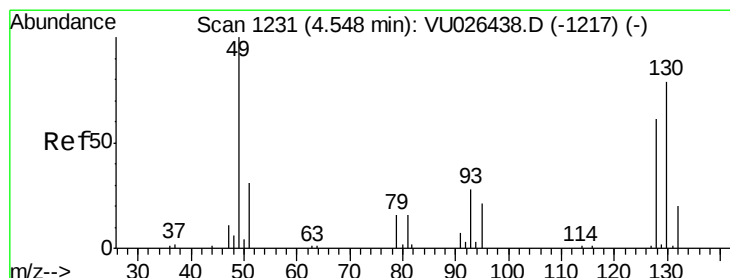
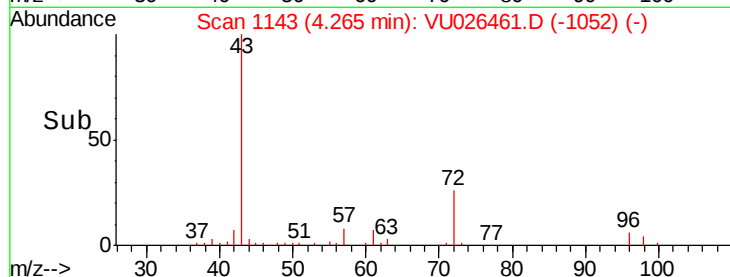
Abundance Ion 43.00 (42.70 to 43.70): VU026461.D (-1143) (-)

Ion 72.00 (71.70 to 72.70): VU026461.D (-1143) (-)

4.27

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 52.947 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Tgt Ion:128 Resp: 30495

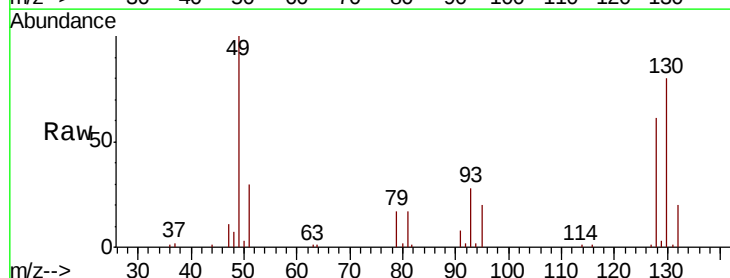
Ion Ratio Lower Upper

128 100

49 163.7 121.2 225.0

130 131.5 94.1 174.7

51 48.9 45.1 67.7



Abundance Ion 128.00 (127.70 to 128.70): VU026461.D (-1232) (-)

Ion 49.00 (48.70 to 49.70): VU026461.D (-1232) (-)

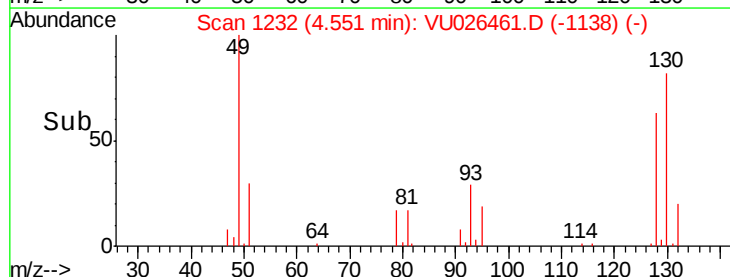
Ion 130.00 (129.70 to 130.70): VU026461.D (-1232) (-)

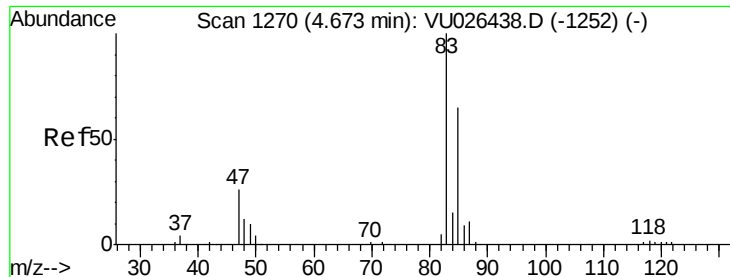
Ion 51.00 (50.70 to 51.70): VU026461.D (-1232) (-)

4.55

4.45 4.50 4.55 4.60 4.65

Time-->

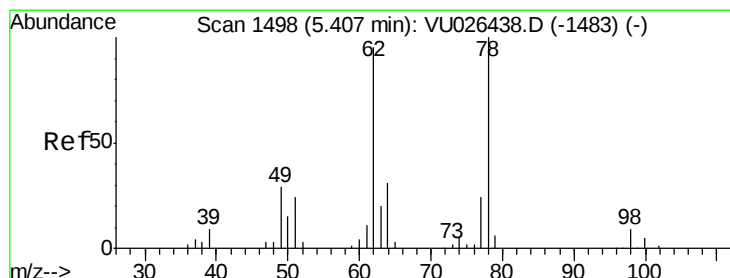
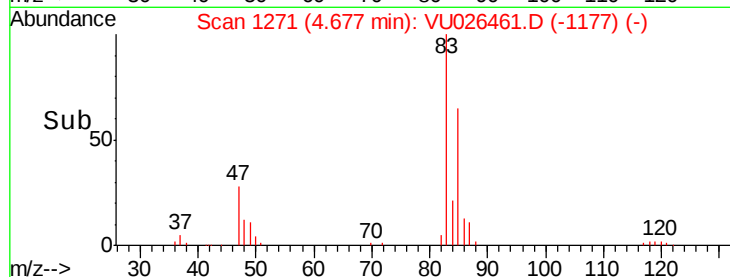
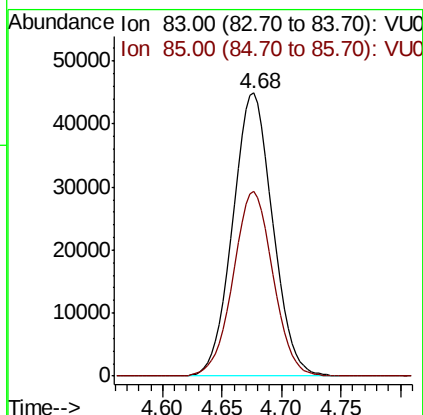
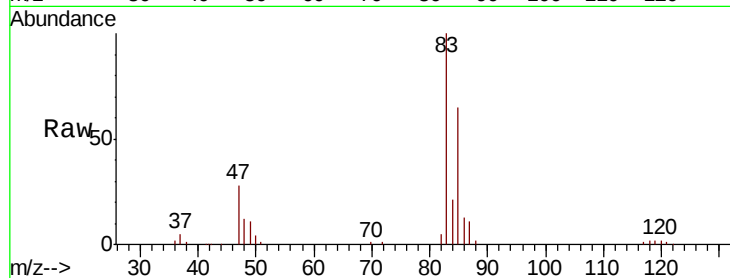




#25
Chloroform
Concen: 52.296 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU026461.D
Acq: 30 Aug 2018 20:49

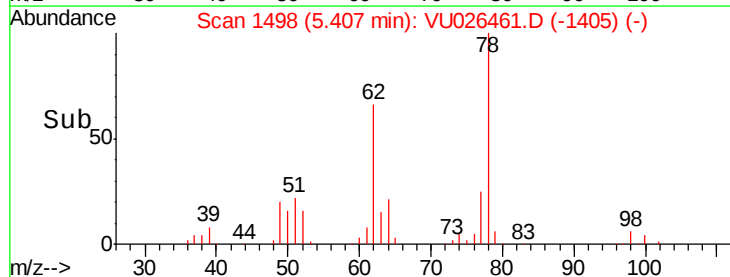
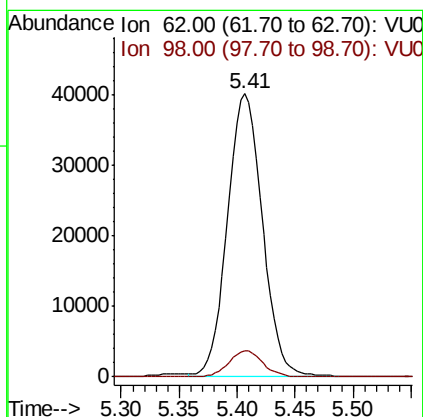
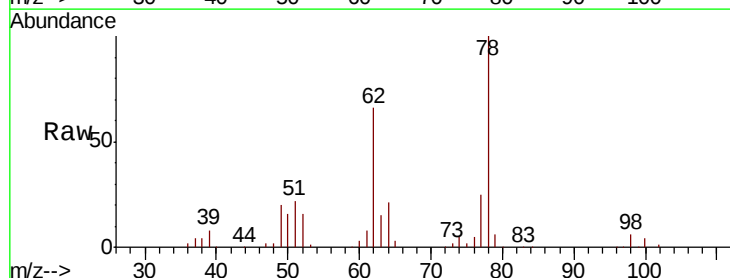
Instrument :
MSVOA_U
ClientSampled :

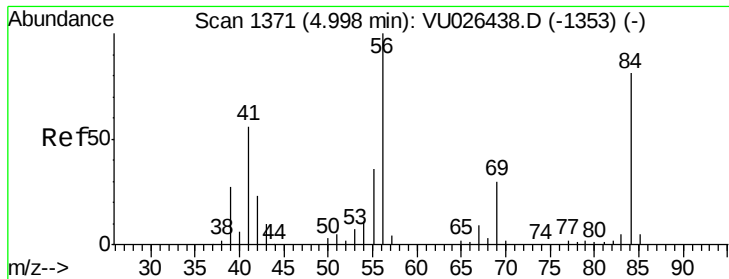
Tot Ion: 83 Resp: 104725
Ion Ratio Lower Upper
83 100
85 65.2 46.5 86.5



#27
1,2-Dichloroethane
Concen: 52.015 ug/L
RT: 5.41 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VU026461.D
Acq: 30 Aug 2018 20:49

Tgt Ion: 62 Resp: 84008
Ion Ratio Lower Upper
62 100
98 9.4 6.8 10.2

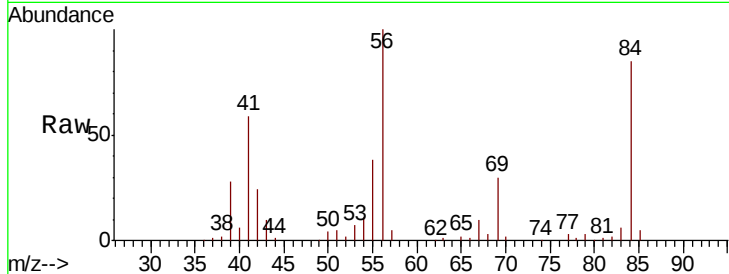




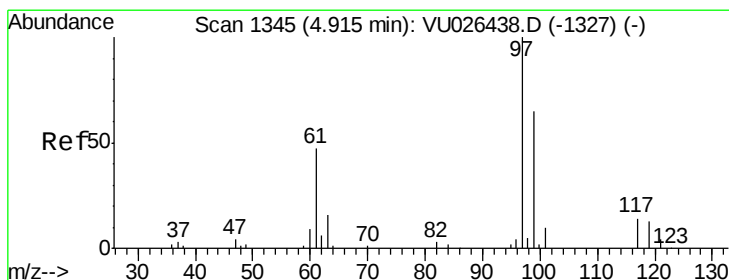
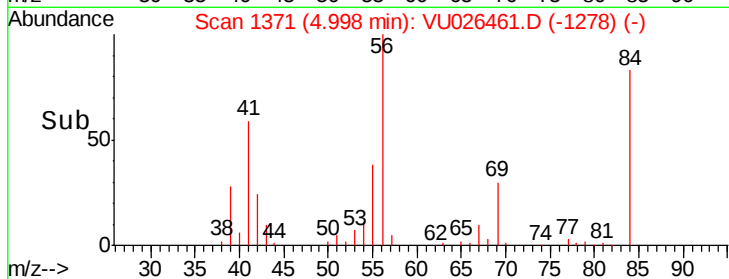
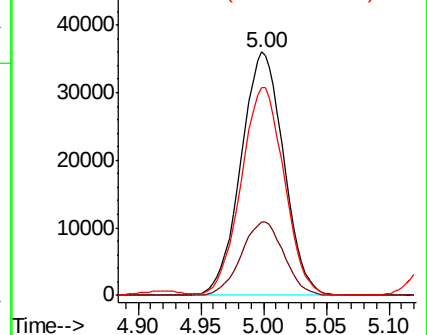
#29
Cyclohexane
Concen: 52.810 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. 0.00 min
Lab File: VU026461.D
Acq: 30 Aug 2018 20:49

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 85246
Ion Ratio Lower Upper
56 100
69 30.1 24.0 36.0
84 86.2 67.2 100.8

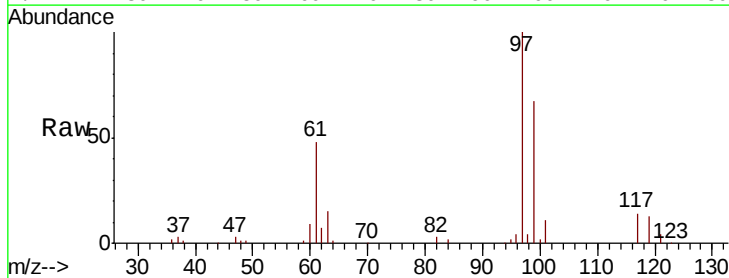


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

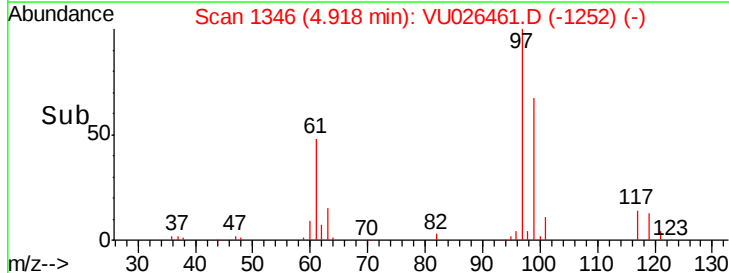
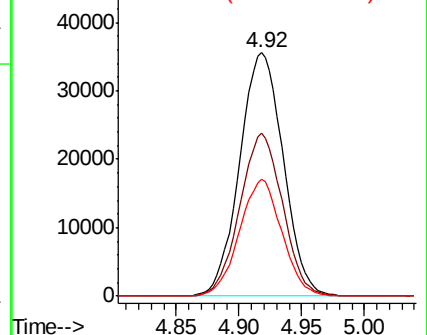


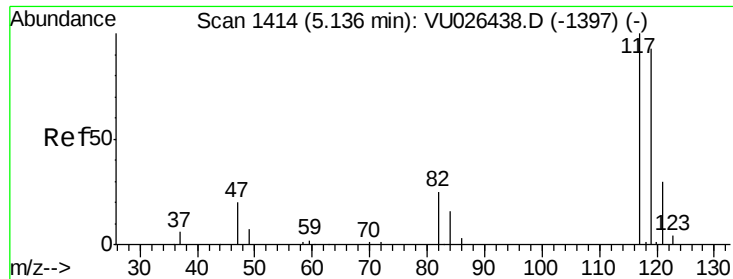
#30
1,1,1-Trichloroethane
Concen: 52.855 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VU026461.D
Acq: 30 Aug 2018 20:49

Tgt Ion: 97 Resp: 86171
Ion Ratio Lower Upper
97 100
99 65.4 51.6 77.4
61 46.6 37.9 56.9



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: 52.601 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Instrument :

MSVOA_U

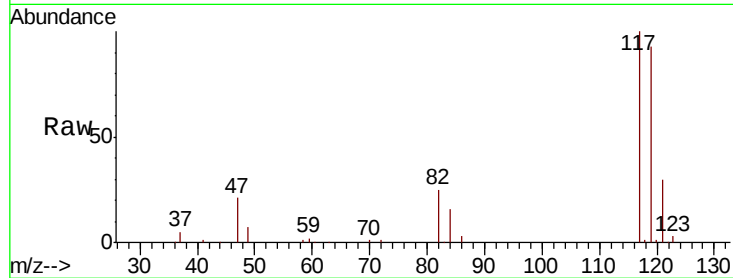
ClientSampleId :

Tot Ion:117 Resp: 77921

Ion Ratio Lower Upper

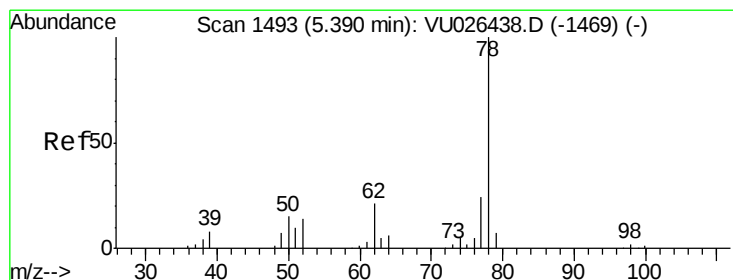
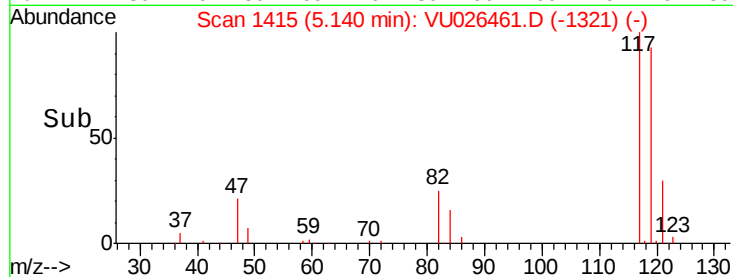
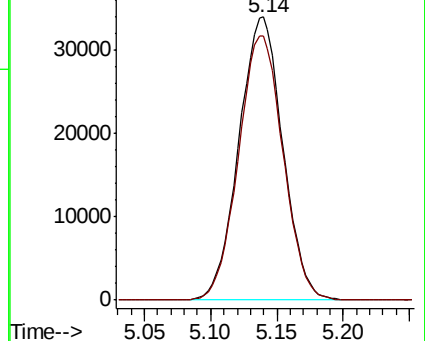
117 100

119 94.9 76.4 114.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 53.599 ug/L

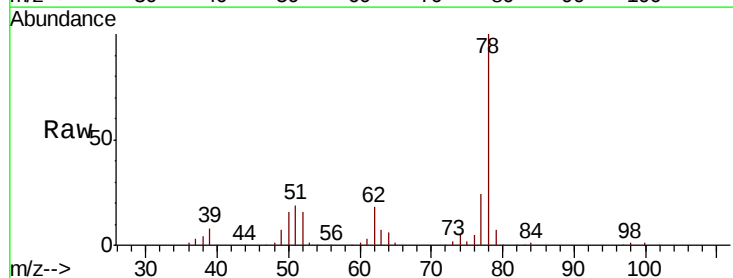
RT: 5.39 min Scan# 1493

Delta R.T. 0.00 min

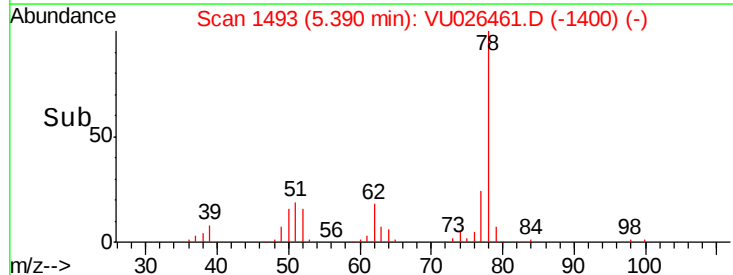
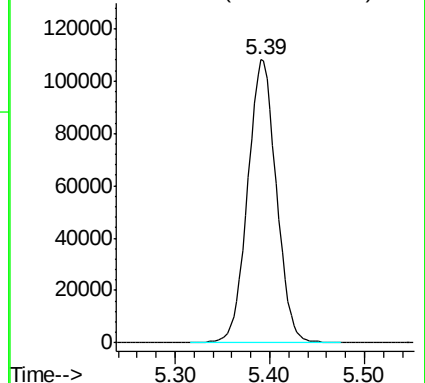
Lab File: VU026461.D

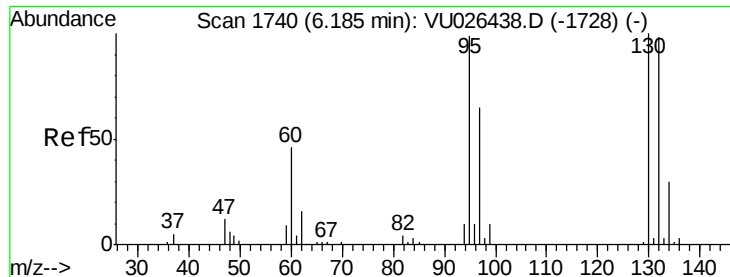
Acq: 30 Aug 2018 20:49

Tgt Ion: 78 Resp: 227656



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 52.519 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 55952

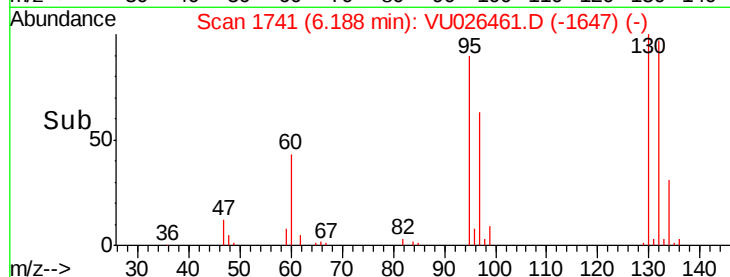
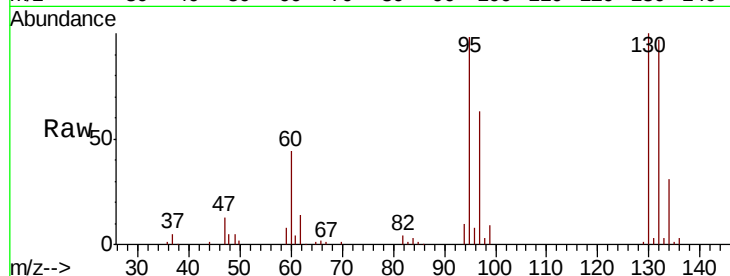
Ion Ratio Lower Upper

95 100

97 64.0 45.1 83.7

132 98.2 67.5 125.3

130 101.7 69.3 128.7

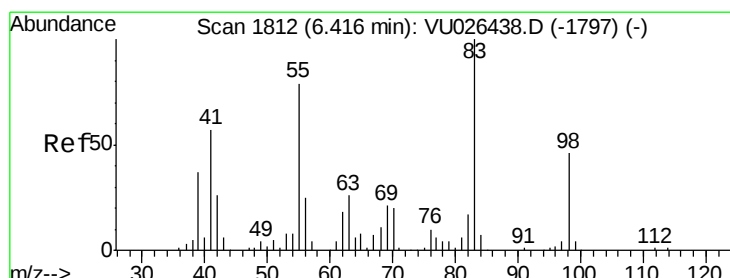
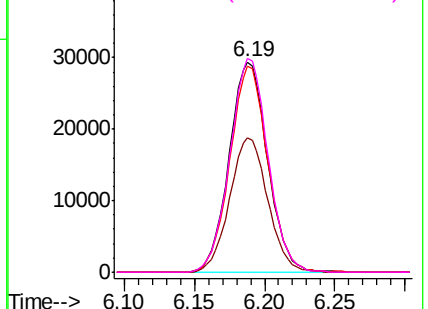


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 52.657 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

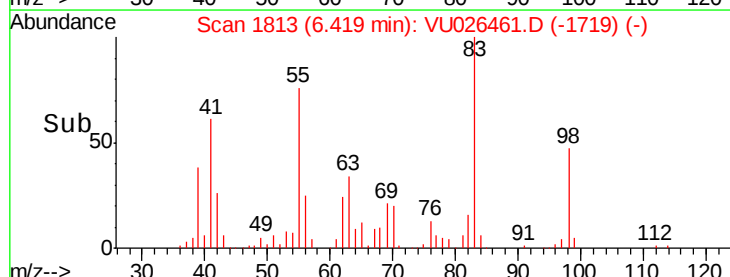
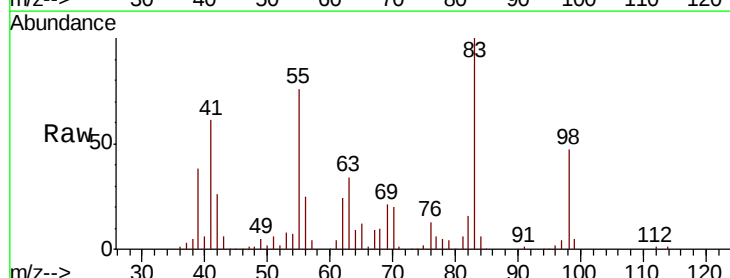
Tgt Ion: 83 Resp: 87597

Ion Ratio Lower Upper

83 100

55 76.5 63.3 94.9

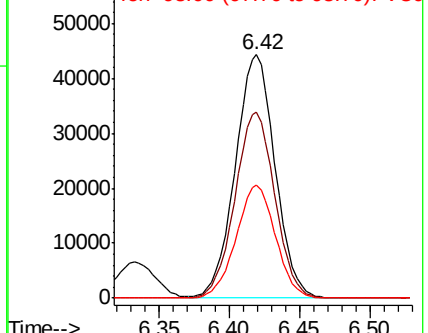
98 45.9 36.7 55.1

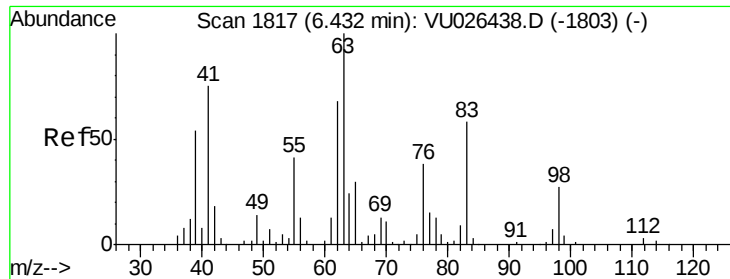


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 53.517 ug/L

RT: 6.44 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Instrument :

MSVOA_U

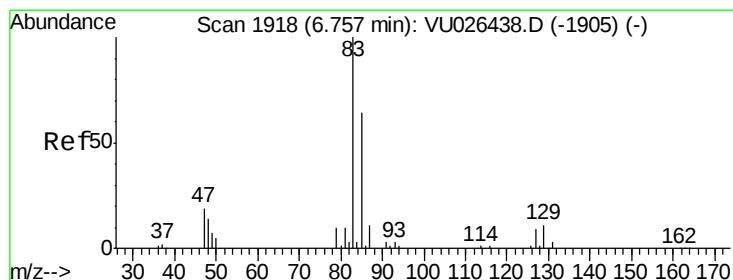
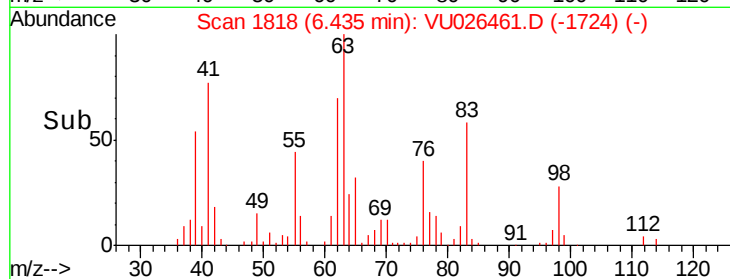
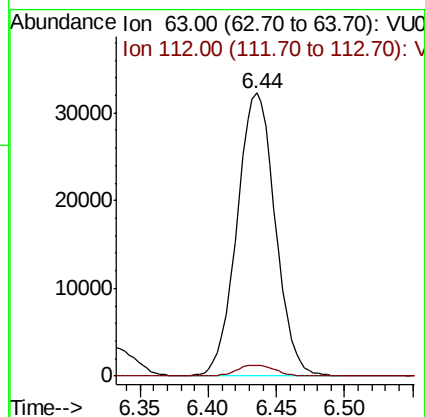
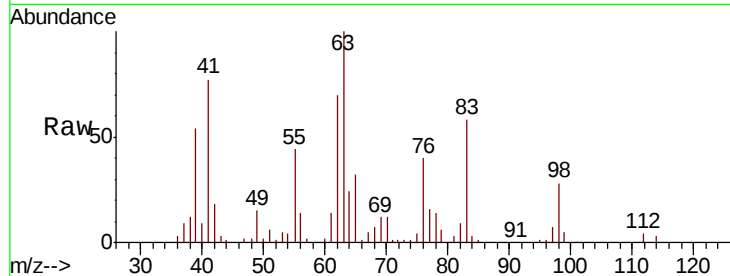
ClientSampled :

Tot Ion: 63 Resp: 62927

Ion Ratio Lower Upper

63 100

112 3.8 3.0 4.6



#38

Bromodichloromethane

Concen: 51.617 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

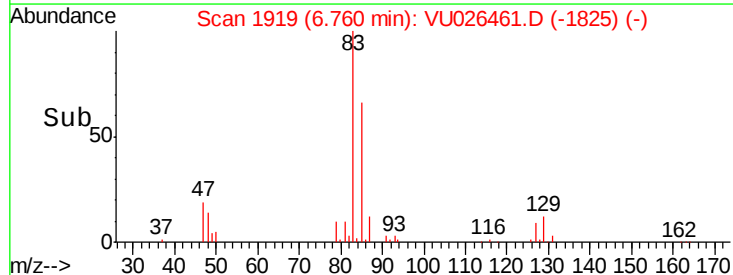
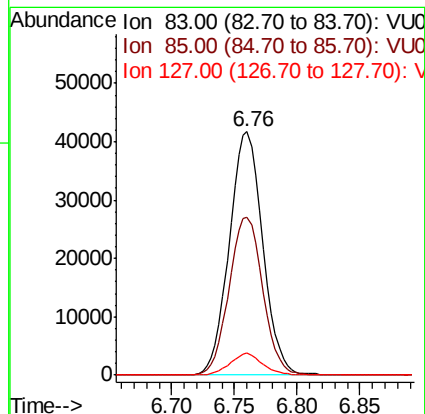
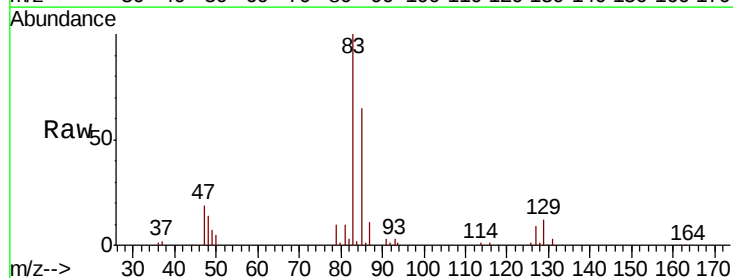
Tgt Ion: 83 Resp: 77397

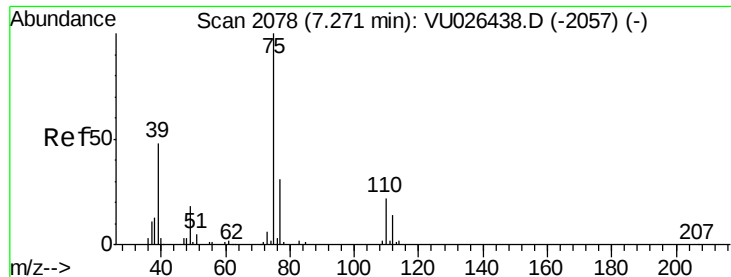
Ion Ratio Lower Upper

83 100

85 65.0 43.9 81.5

127 9.0 7.0 10.6

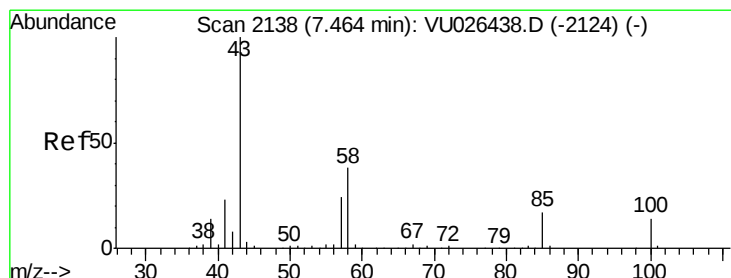
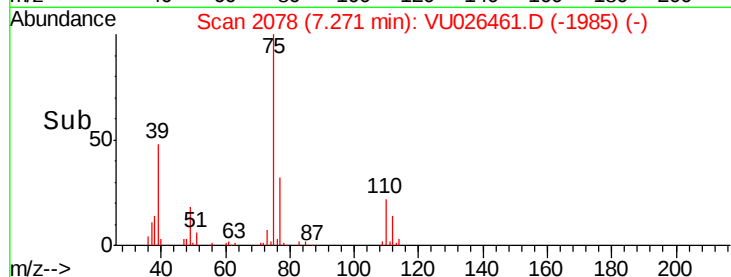
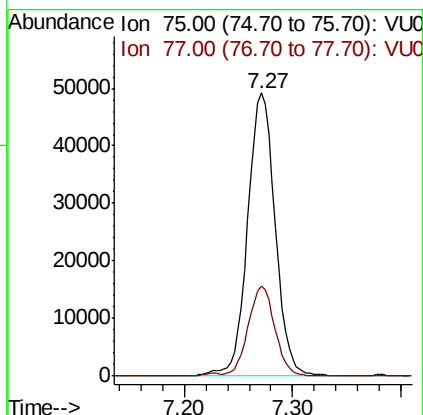
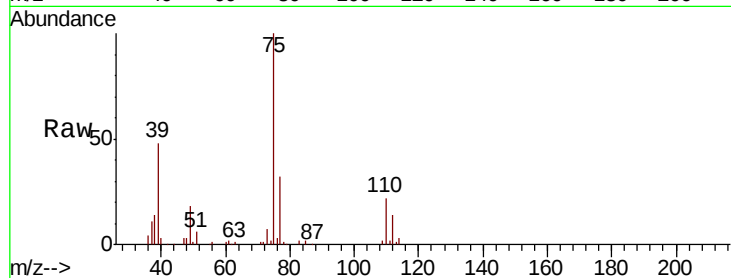




#39
 cis-1,3-Dichloropropene
 Concen: 52.279 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU026461.D
 Acq: 30 Aug 2018 20:49

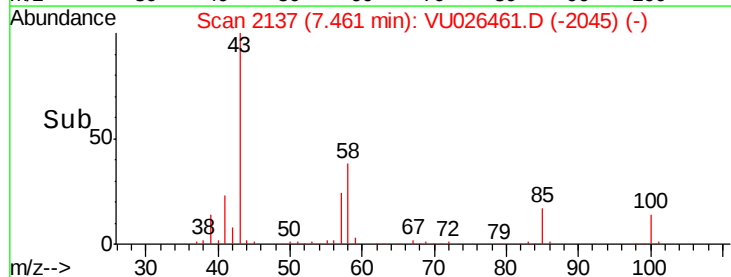
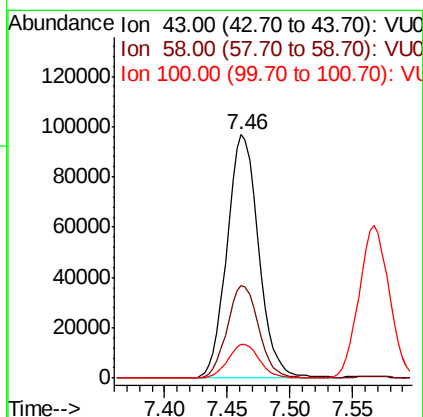
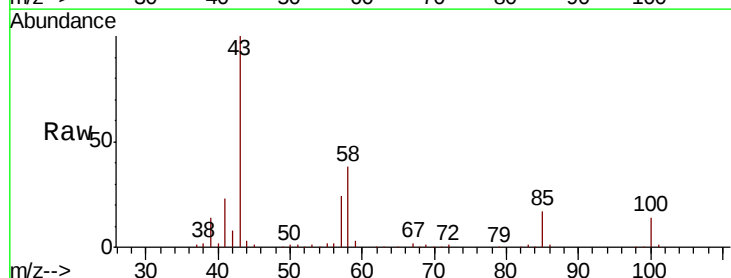
Instrument :
 MSVOA_U
 ClientSampled :

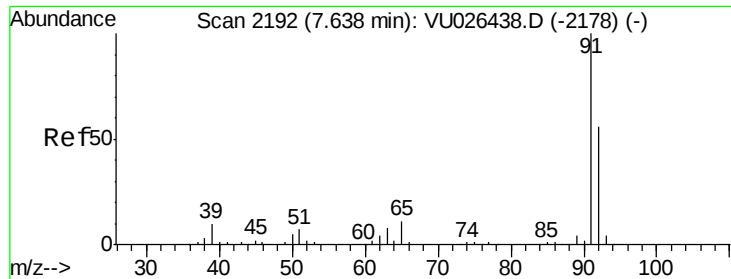
Tot Ion: 75 Resp: 87590
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 107.109 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. -0.00 min
 Lab File: VU026461.D
 Acq: 30 Aug 2018 20:49

Tgt Ion: 43 Resp: 169849
 Ion Ratio Lower Upper
 43 100
 58 38.0 30.4 45.6
 100 13.9 11.0 16.4





#42

Toluene

Concen: 53.977 ug/L

RT: 7.64 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

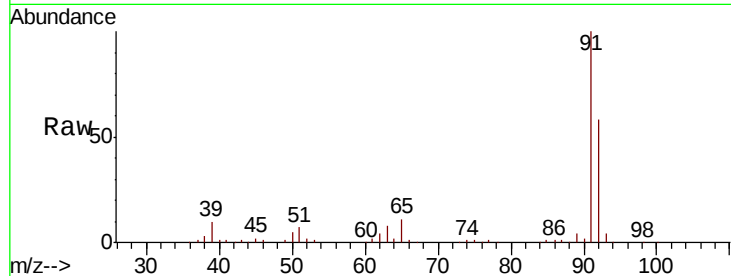
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 239221

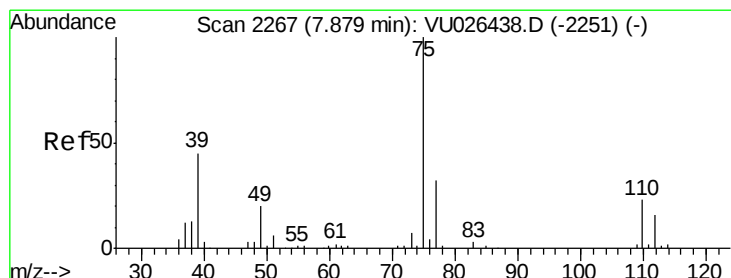
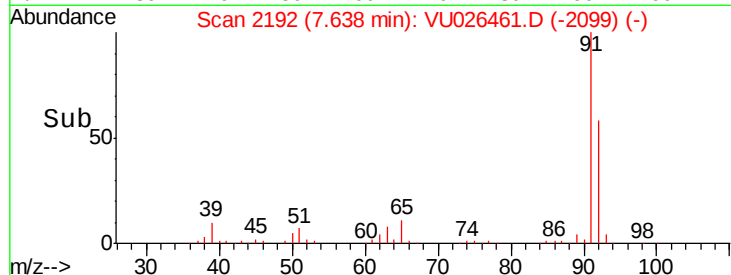
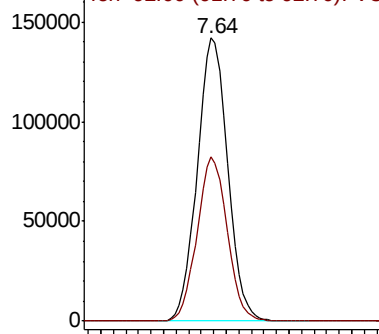
Ion Ratio Lower Upper

91 100

92 57.9 38.7 71.9



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 51.343 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU026461.D

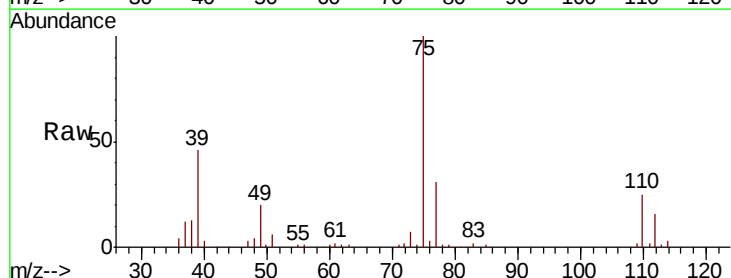
Acq: 30 Aug 2018 20:49

Tgt Ion: 75 Resp: 81990

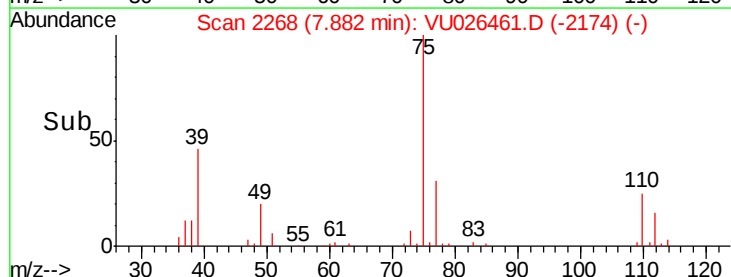
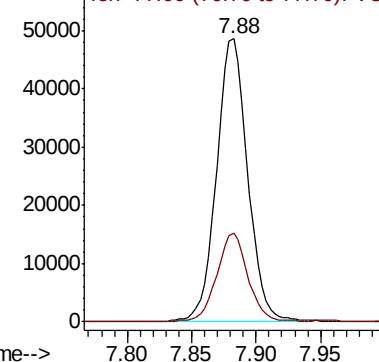
Ion Ratio Lower Upper

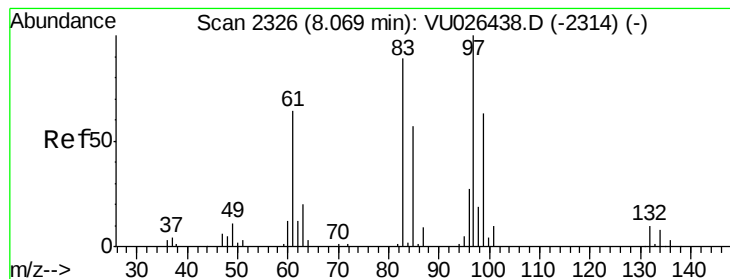
75 100

77 31.5 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 77.00 (76.70 to 77.70): VU0





#45

1,1,2-Trichloroethane

Concen: 52.587 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 97 Resp: 56646

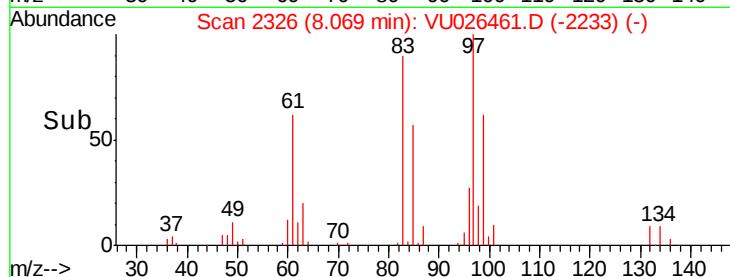
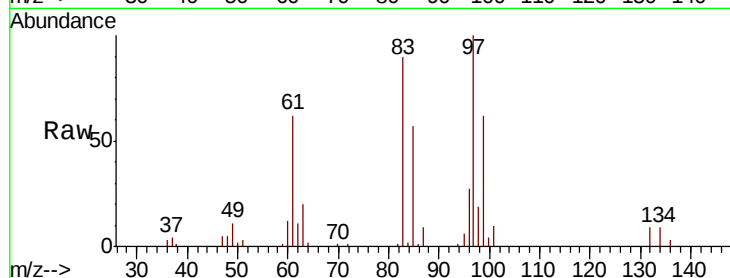
Ion	Ratio	Lower	Upper
97	100		
99	62.1	43.9	81.5
83	89.7	62.7	116.5
85	57.0	39.4	73.2

97 100

99 62.1 43.9 81.5

83 89.7 62.7 116.5

85 57.0 39.4 73.2



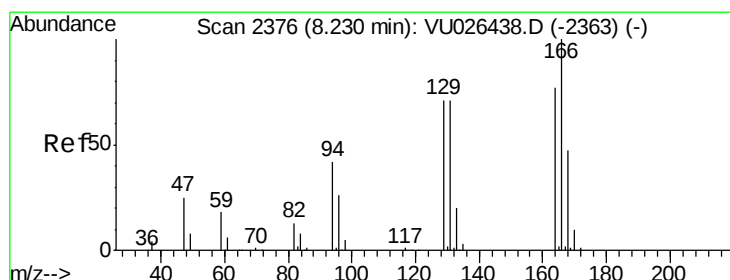
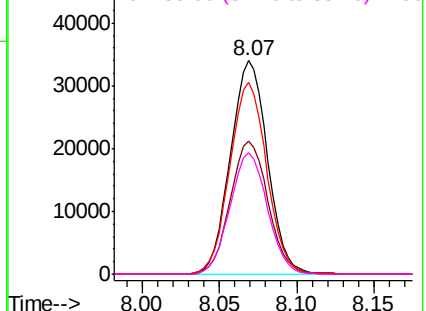
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 56.510 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Tgt Ion: 164 Resp: 49222

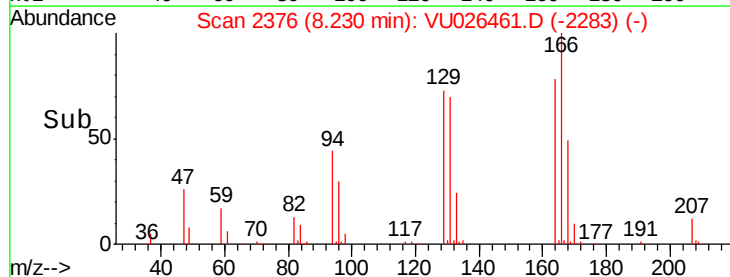
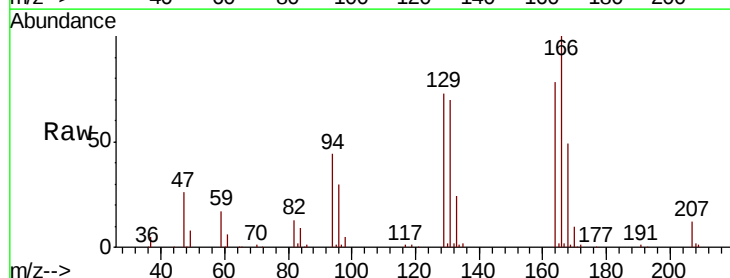
Ion	Ratio	Lower	Upper
164	100		
129	92.8	67.3	125.1
131	89.2	65.3	121.3
166	127.7	90.9	168.7

164 100

129 92.8 67.3 125.1

131 89.2 65.3 121.3

166 127.7 90.9 168.7



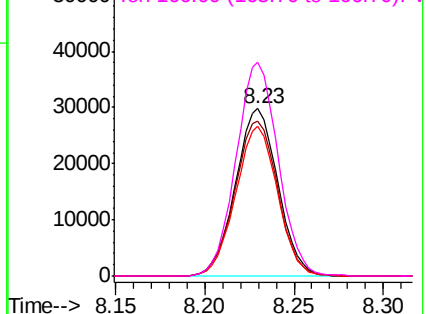
Abundance

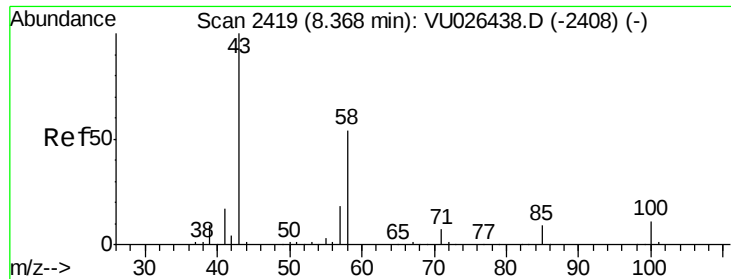
Ion 164.00 (163.70 to 164.70): V

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

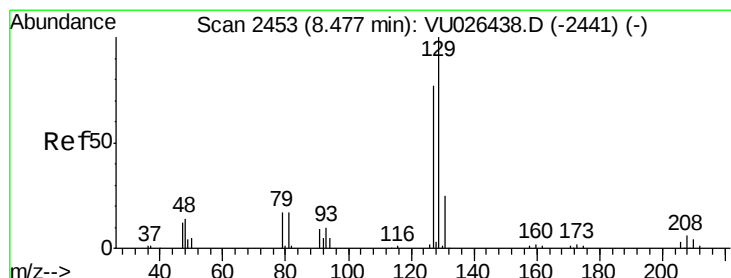
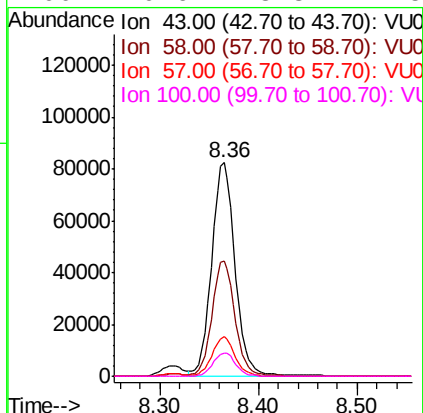
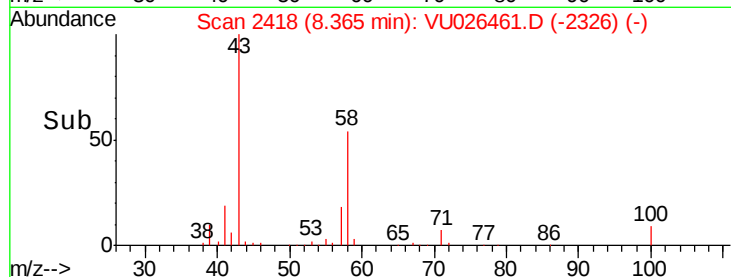
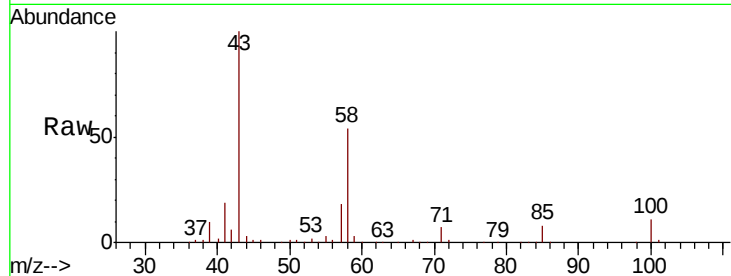




#48
2-Hexanone
Concen: 109.297 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU026461.D
Acq: 30 Aug 2018 20:49

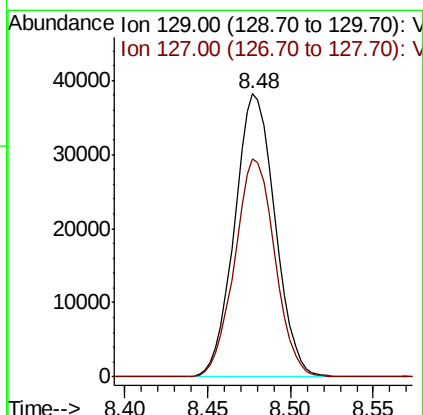
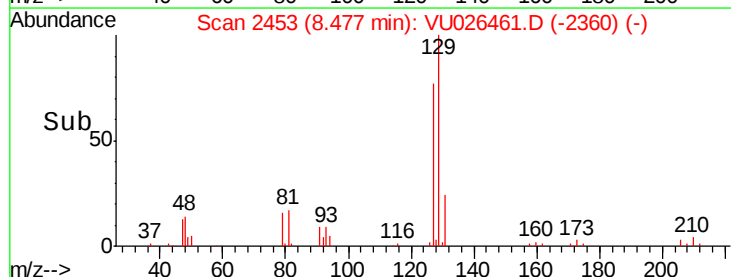
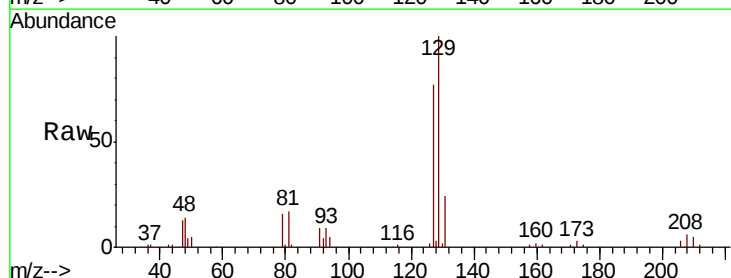
Instrument :
MSVOA_U
ClientSampleId :

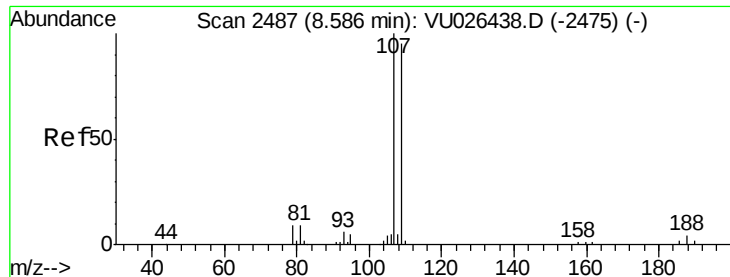
Tot Ion: 43 Resp: 136503
Ion Ratio Lower Upper
43 100
58 52.5 42.2 63.4
57 17.8 14.6 21.8
100 10.6 8.3 12.5



#49
Dibromochloromethane
Concen: 53.477 ug/L
RT: 8.48 min Scan# 2453
Delta R.T. 0.00 min
Lab File: VU026461.D
Acq: 30 Aug 2018 20:49

Tgt Ion: 129 Resp: 64906
Ion Ratio Lower Upper
129 100
127 76.9 55.0 102.2





#50

1,2-Dibromoethane

Concen: 53.542 ug/L

RT: 8.59 min Scan# 2488

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Instrument :

MSVOA_U

ClientSampleId :

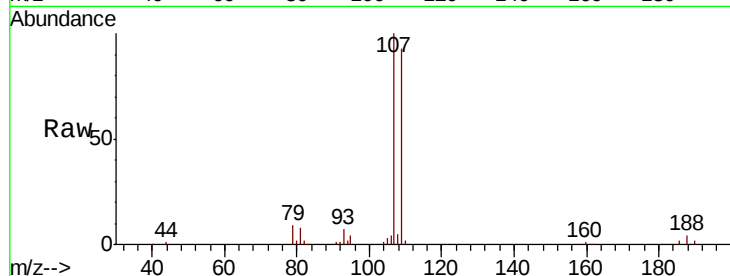
Tot Ion:107 Resp: 61416

Ion Ratio Lower Upper

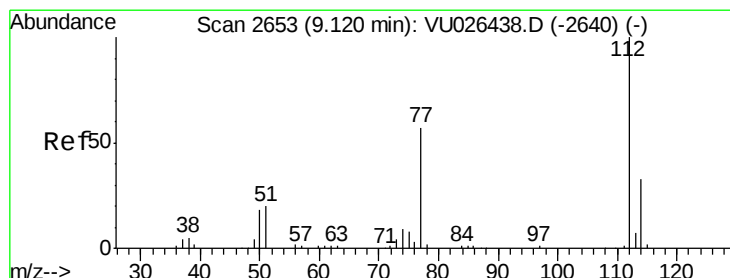
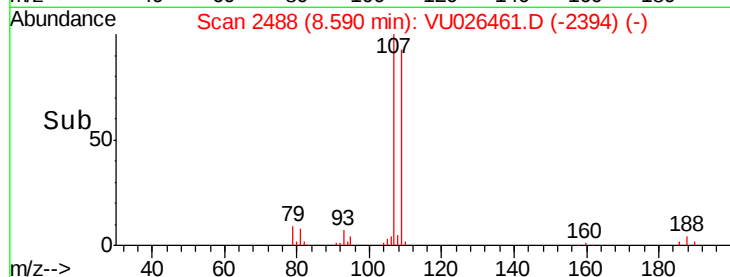
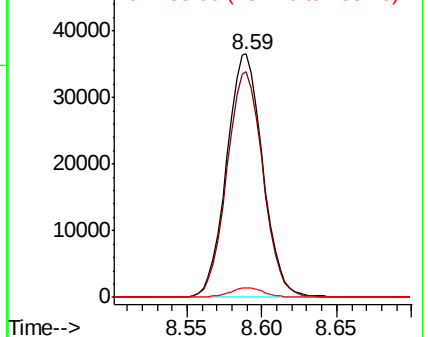
107 100

109 92.7 63.4 117.8

188 3.9 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: 51.733 ug/L

RT: 9.12 min Scan# 2653

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

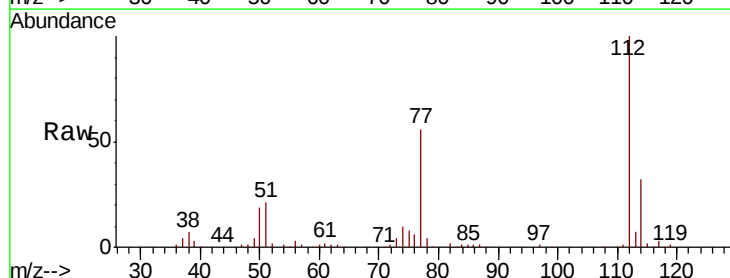
Tgt Ion:112 Resp: 153322

Ion Ratio Lower Upper

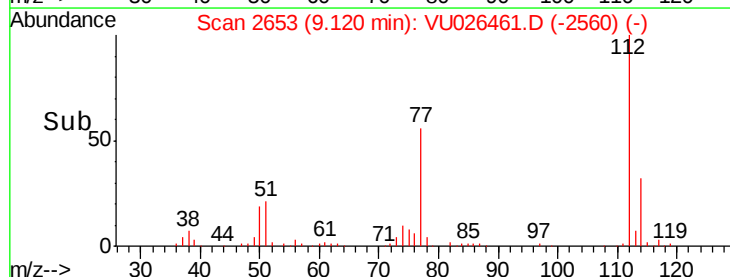
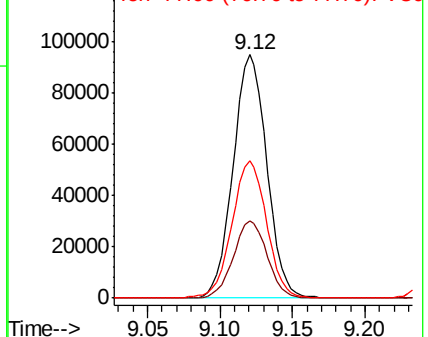
112 100

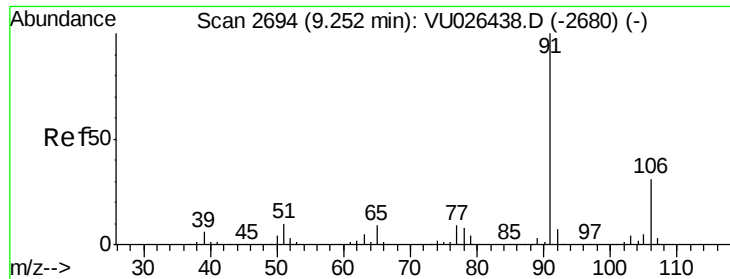
114 31.9 23.2 43.2

77 56.4 47.3 70.9



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: 53.326 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

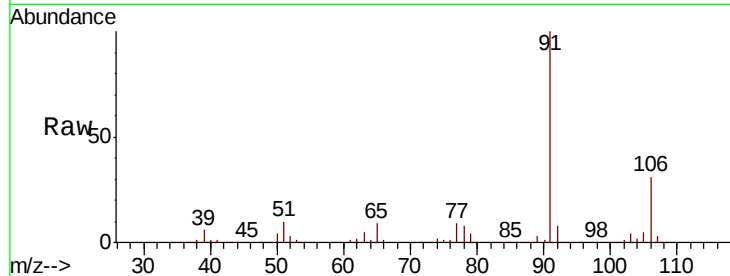
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 257043

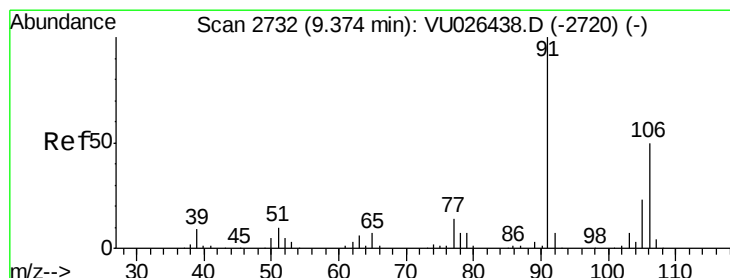
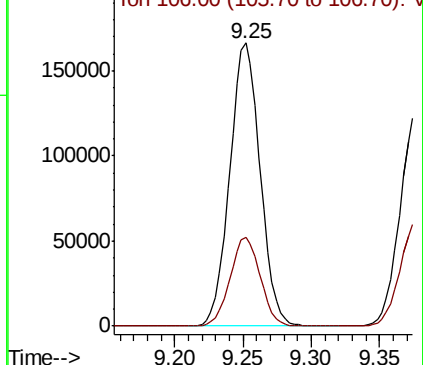
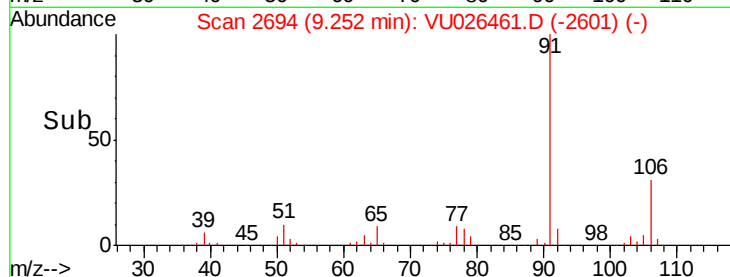
Ion Ratio Lower Upper

91 100

106 31.5 21.6 40.2



Abundance Ion 91.00 (90.70 to 91.70): VU026461.D (-2601) (-)



#53

m,p-Xylene

Concen: 54.689 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU026461.D

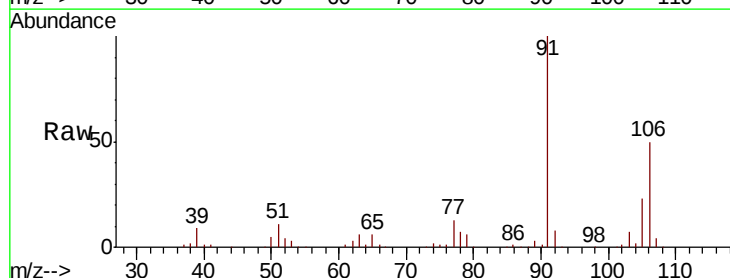
Acq: 30 Aug 2018 20:49

Tgt Ion: 106 Resp: 98430

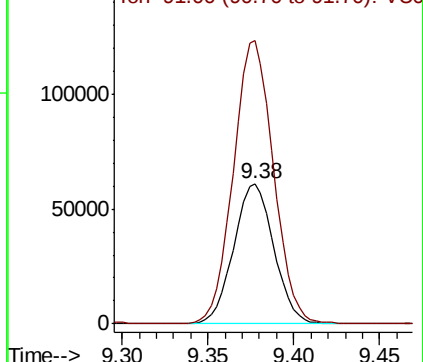
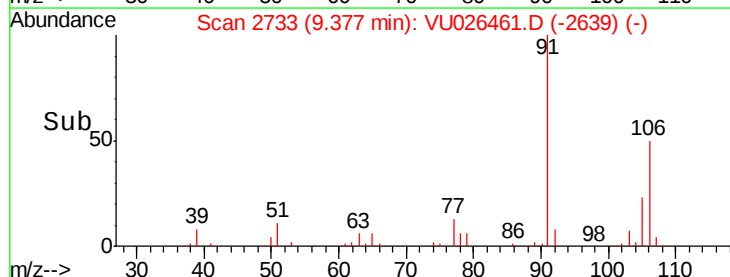
Ion Ratio Lower Upper

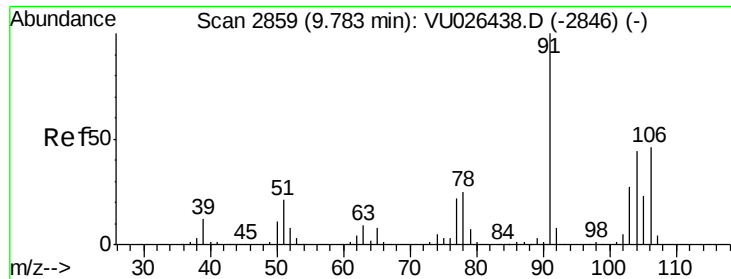
106 100

91 201.6 143.0 265.6



Abundance Ion 106.00 (105.70 to 106.70): VU026461.D (-2639) (-)





#54

o-xylene

Concen: 55.321 ug/L

RT: 9.78 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

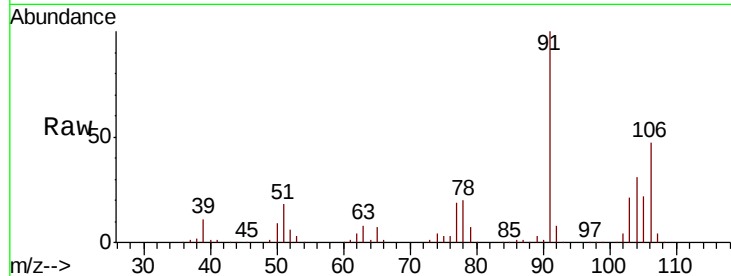
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 97097

Ion Ratio Lower Upper

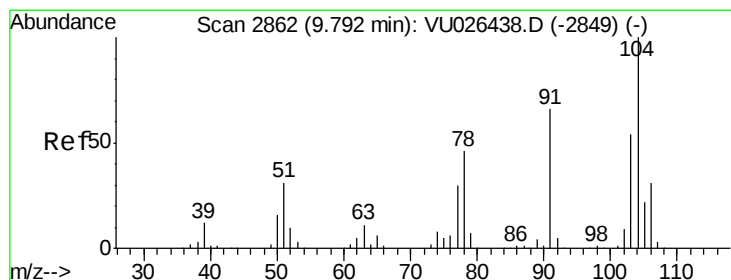
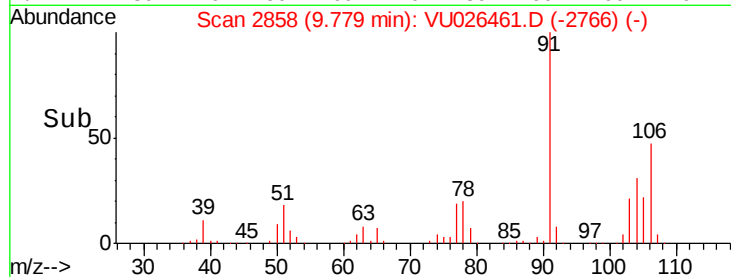
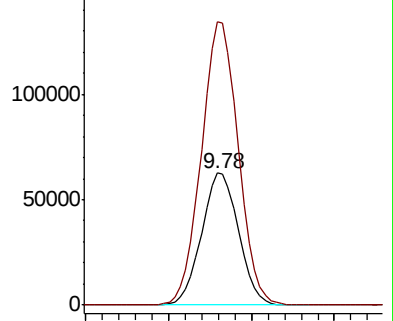
106 100

91 214.0 153.3 284.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 55.038 ug/L

RT: 9.79 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VU026461.D

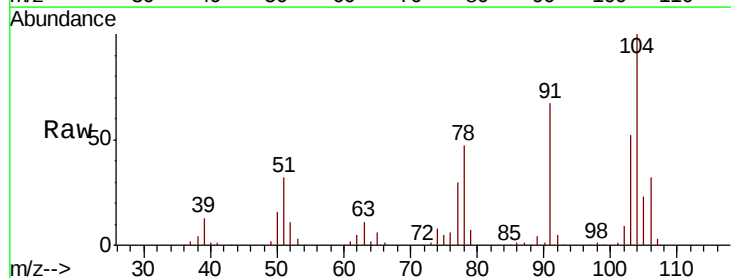
Acq: 30 Aug 2018 20:49

Tgt Ion:104 Resp: 168753

Ion Ratio Lower Upper

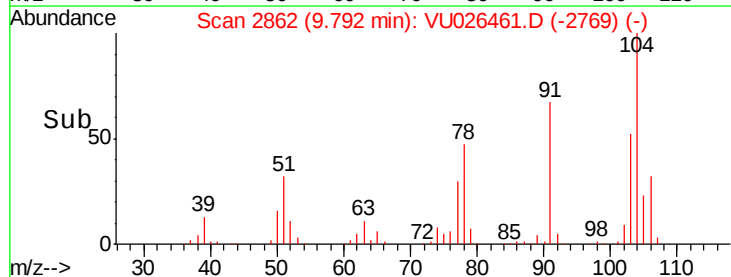
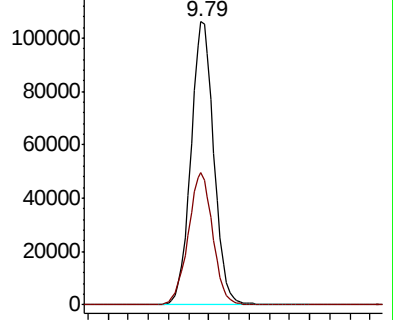
104 100

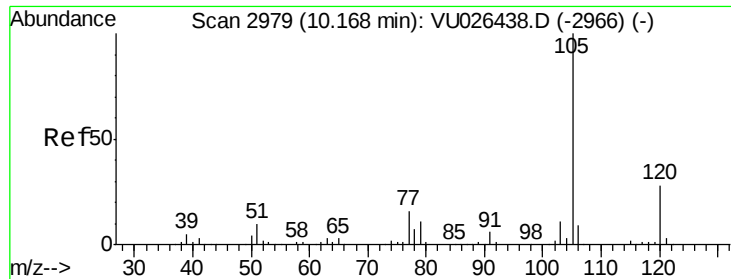
78 46.6 31.1 57.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 54.163 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Instrument :

MSVOA_U

ClientSampleId :

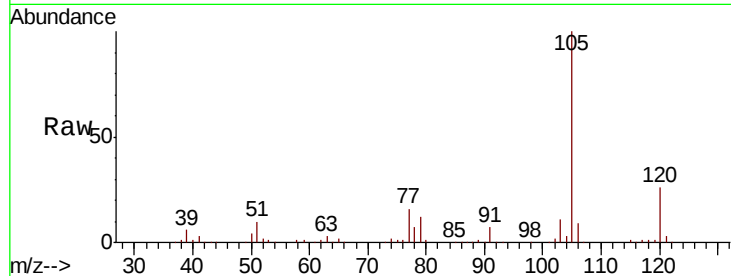
Tot Ion:105 Resp: 248845

Ion Ratio Lower Upper

105 100

120 26.8 21.5 32.3

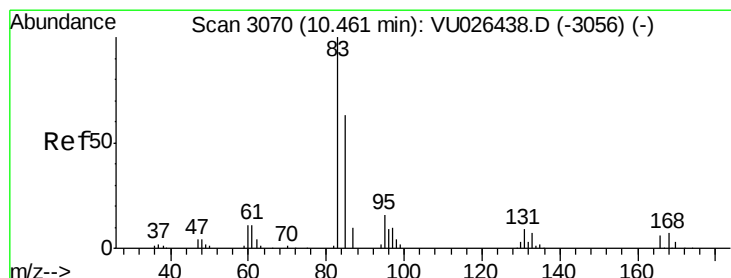
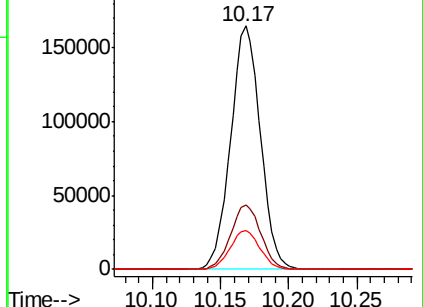
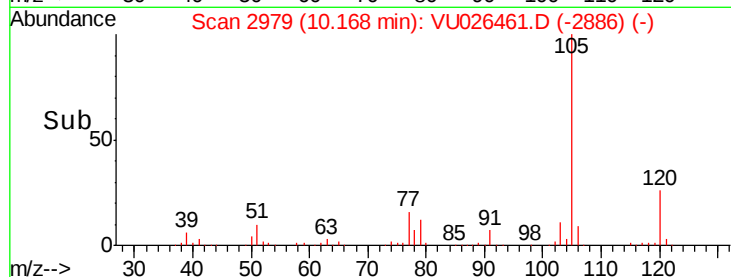
77 16.1 12.9 19.3



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: 52.689 ug/L

RT: 10.46 min Scan# 3069

Delta R.T. -0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

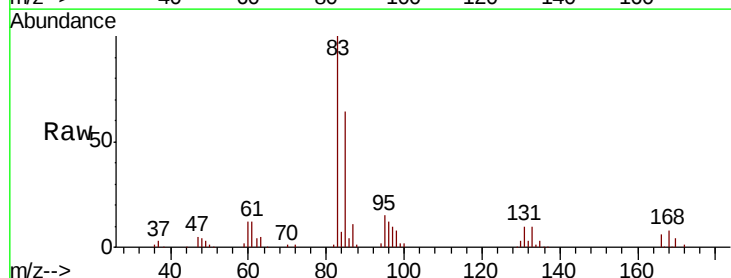
Tgt Ion: 83 Resp: 99975

Ion Ratio Lower Upper

83 100

85 64.4 44.3 82.3

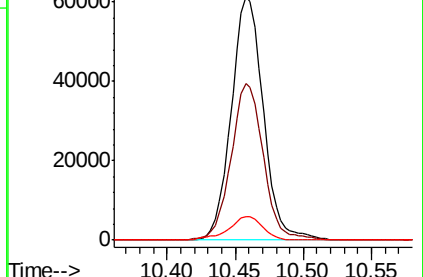
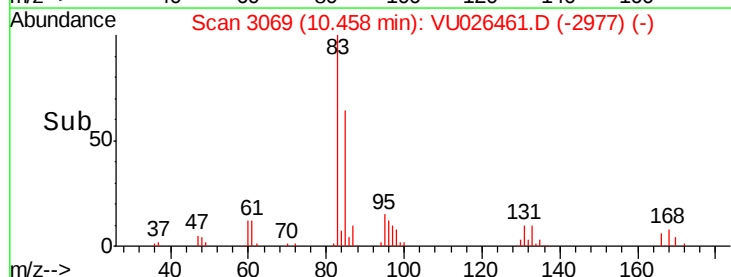
131 9.6 7.8 11.8

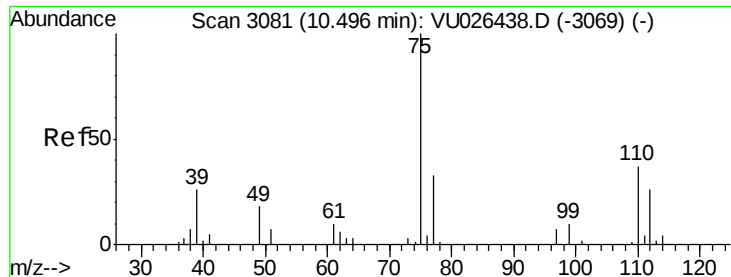


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

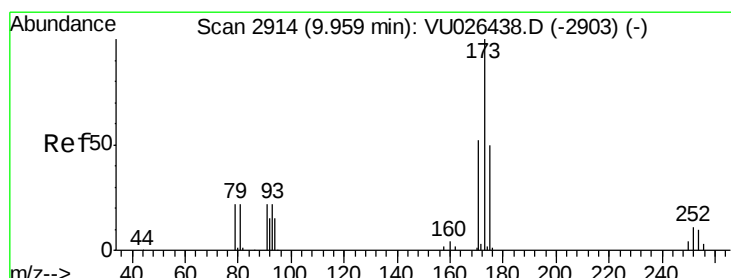
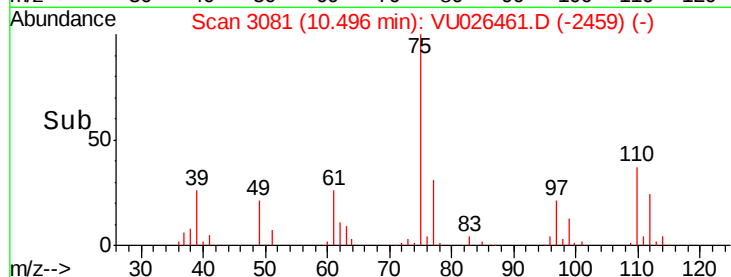
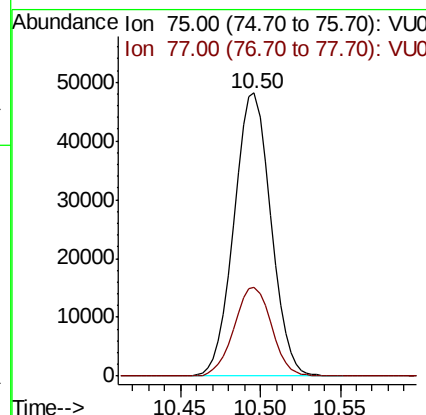
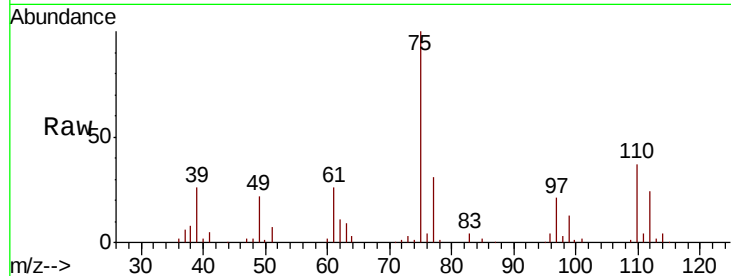




#59
 1,2,3-Trichloropropane
 Concen: 51.564 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU026461.D
 Acq: 30 Aug 2018 20:49

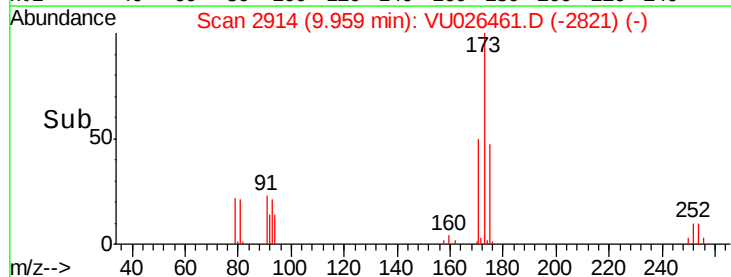
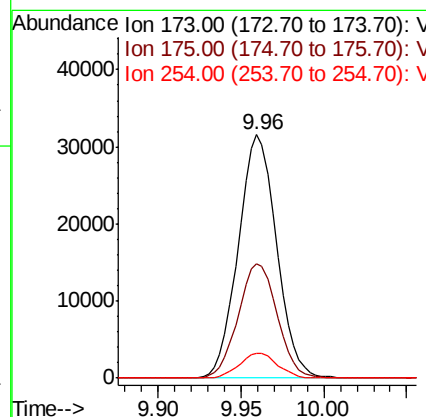
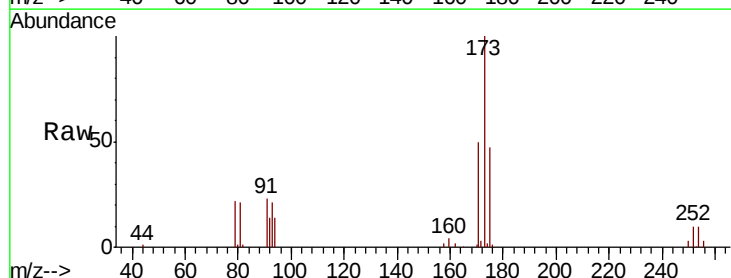
Instrument :
 MSVOA_U
 ClientSampled :

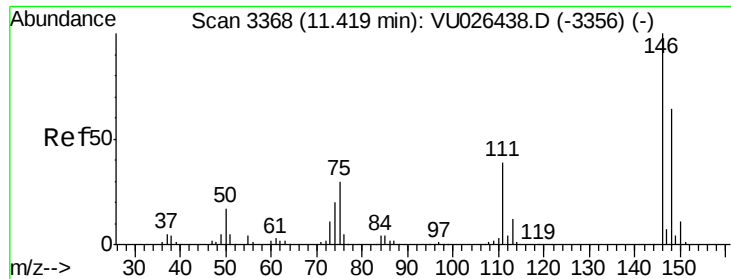
Tot Ion: 75 Resp: 75655
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.0 37.6



#61
 Bromoform
 Concen: 56.013 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. 0.00 min
 Lab File: VU026461.D
 Acq: 30 Aug 2018 20:49

Tgt Ion:173 Resp: 50866
 Ion Ratio Lower Upper
 173 100
 175 47.9 38.5 57.7
 254 10.2 8.1 12.1





#62

1,3-Dichlorobenzene

Concen: 53.318 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

Instrument :

MSVOA_U

ClientSampled :

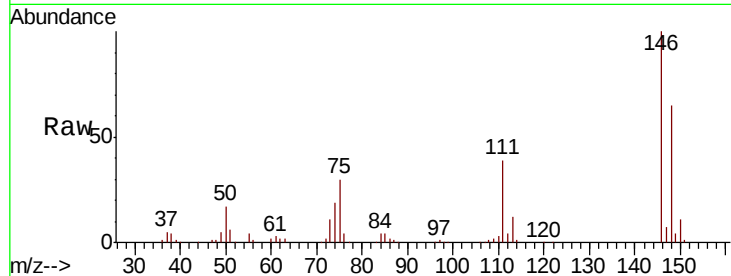
Tot Ion:146 Resp: 114797

Ion Ratio Lower Upper

146 100

111 39.3 27.5 51.1

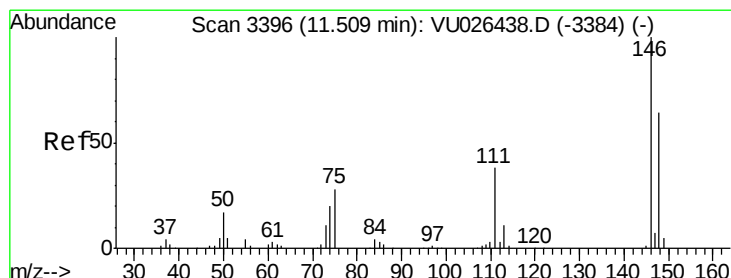
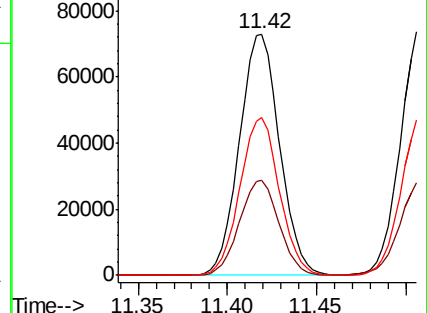
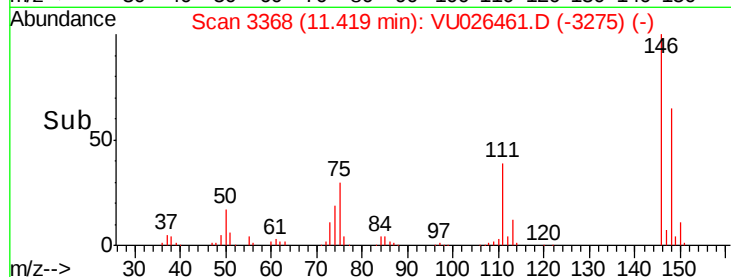
148 65.3 44.9 83.3



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: 51.635 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU026461.D

Acq: 30 Aug 2018 20:49

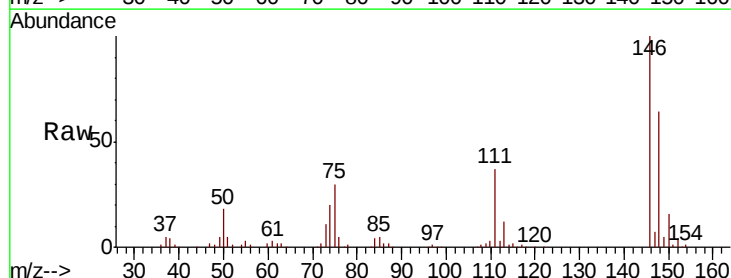
Tgt Ion:146 Resp: 117588

Ion Ratio Lower Upper

146 100

111 37.4 26.2 48.6

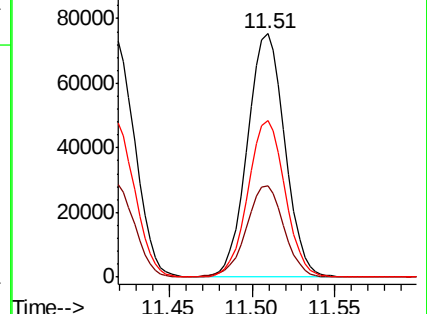
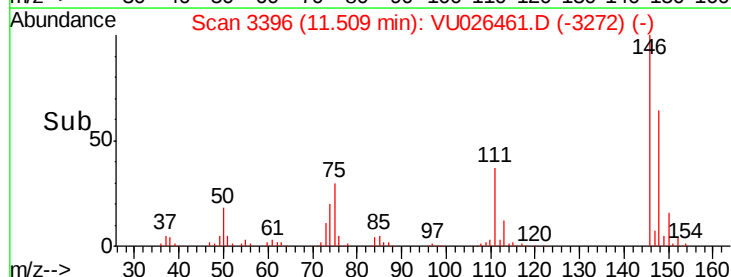
148 64.2 44.9 83.5

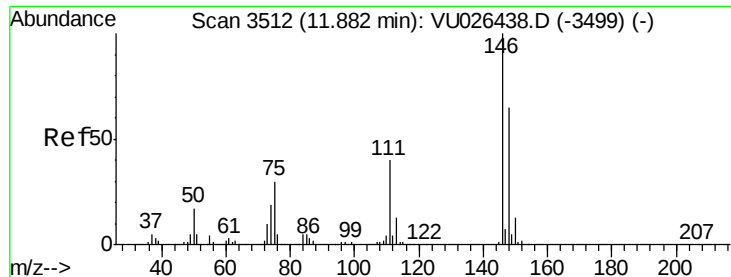


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

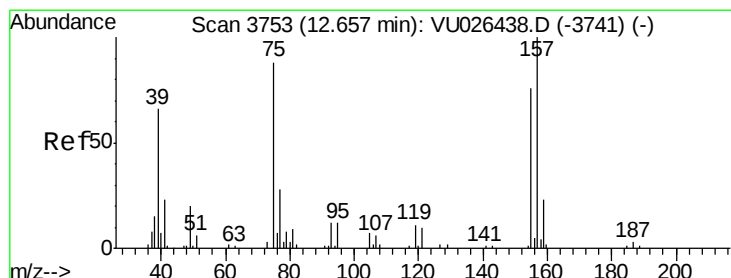
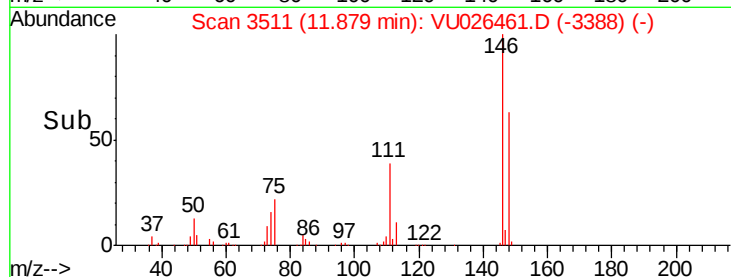
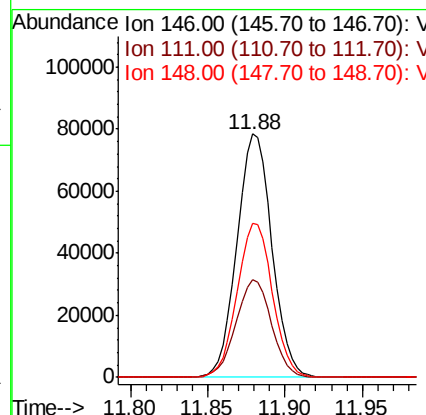
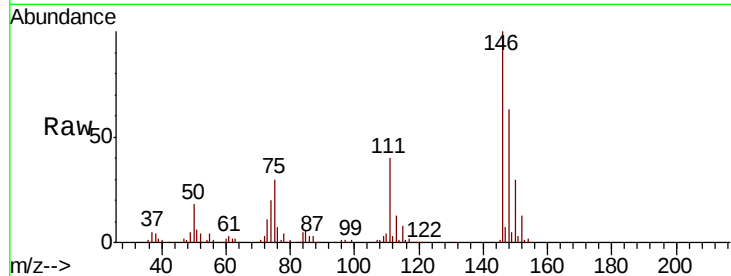




#65
 1,2-Dichlorobenzene
 Concen: 54.189 ug/L
 RT: 11.88 min Scan# 3511
 Delta R.T. -0.00 min
 Lab File: VU026461.D
 Acq: 30 Aug 2018 20:49

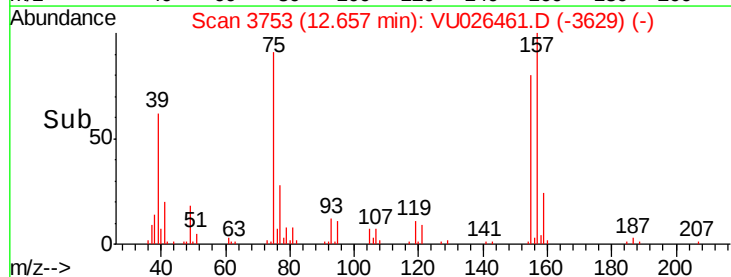
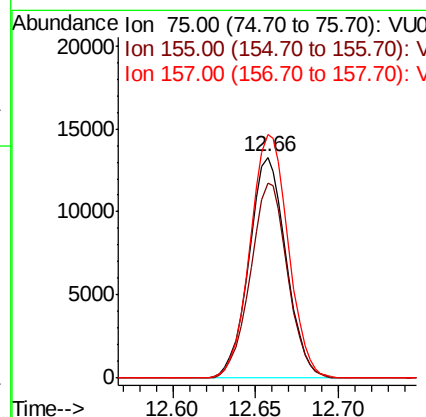
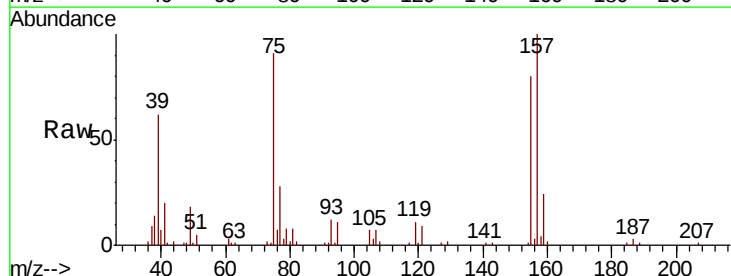
Instrument :
 MSVOA_U
 ClientSampled :

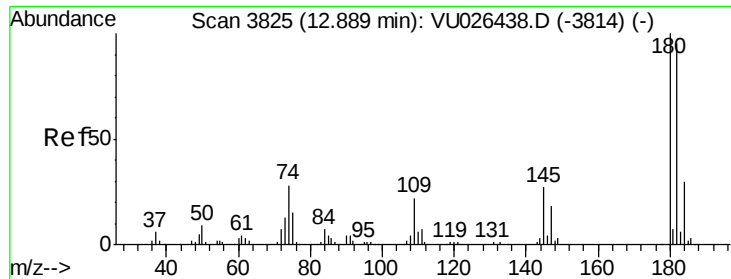
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	32.0	48.0
148	63.2	50.2	75.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 54.078 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VU026461.D
 Acq: 30 Aug 2018 20:49

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.6	69.8	104.8
157	110.3	89.8	134.8

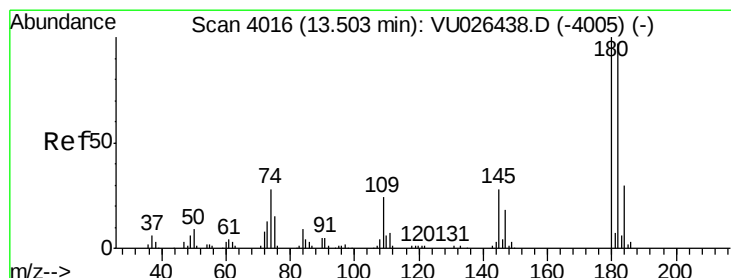
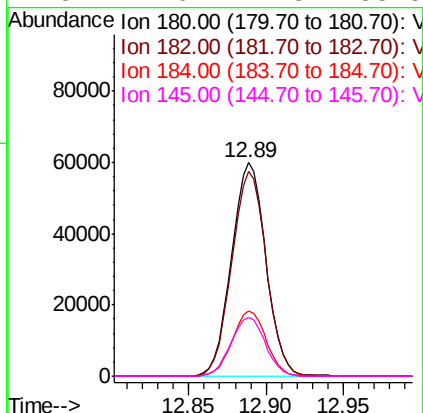
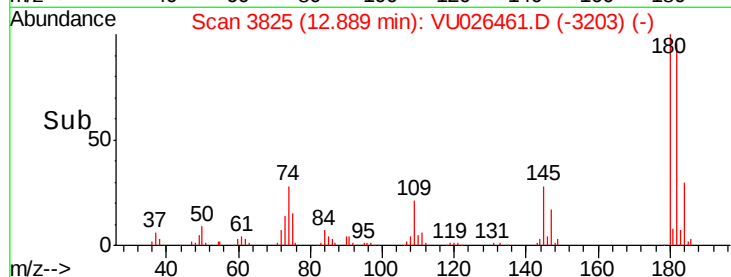
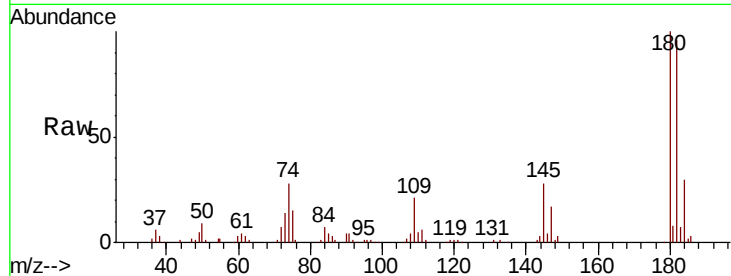




#67
 1,3,5-Trichlorobenzene
 Concen: 53.163 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. 0.00 min
 Lab File: VU026461.D
 Acq: 30 Aug 2018 20:49

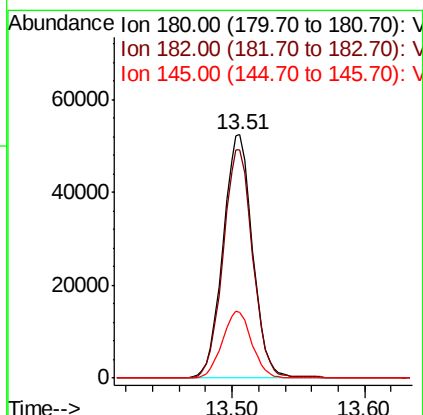
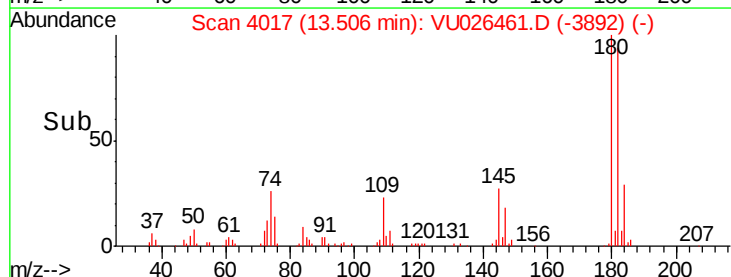
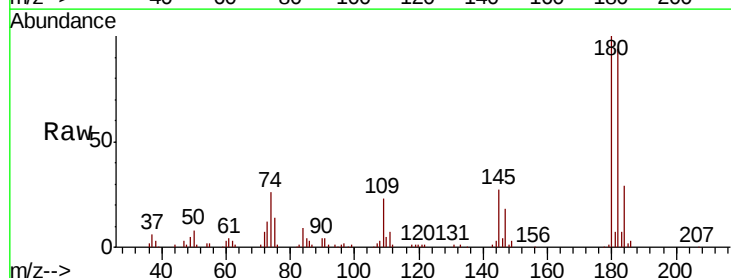
Instrument :
 MSVOA_U
 ClientSampleId :

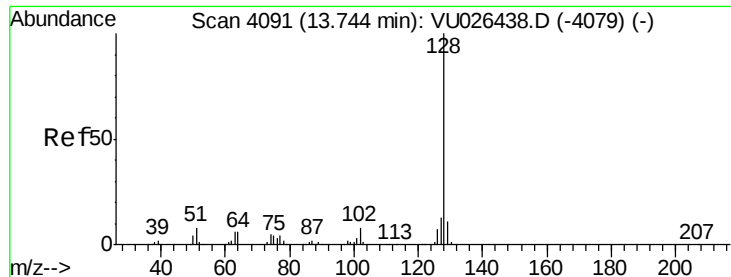
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.5	114.7
184	30.1	25.0	37.4
145	27.6	22.3	33.5



#68
 1,2,4-trichlorobenzene
 Concen: 53.515 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU026461.D
 Acq: 30 Aug 2018 20:49

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	76.6	114.8
145	27.3	22.4	33.6

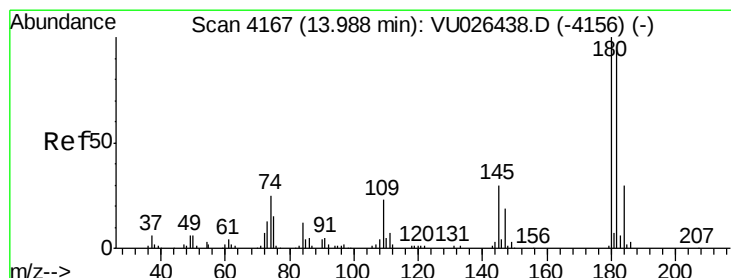
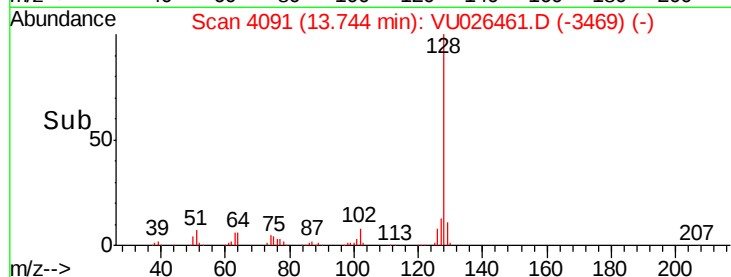
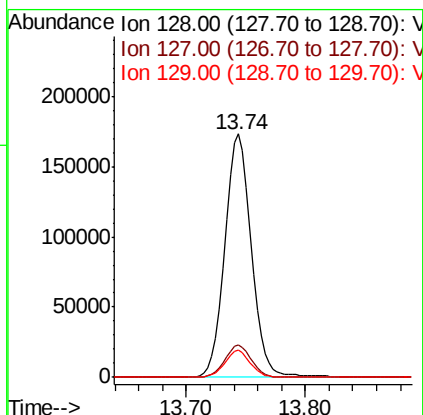
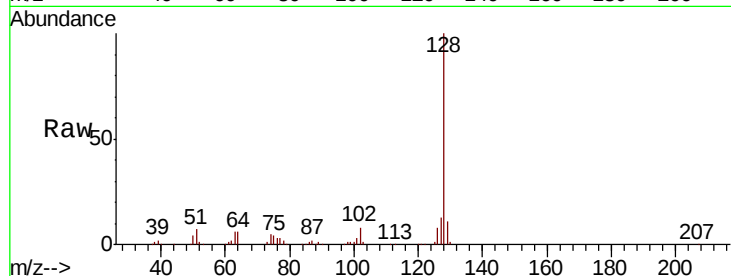




#69
Naphthalene
Concen: 56.479 ug/L
RT: 13.74 min Scan# 4091
Delta R.T. 0.00 min
Lab File: VU026461.D
Acq: 30 Aug 2018 20:49

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 267621
Ion Ratio Lower Upper
128 100
127 13.0 10.5 15.7
129 10.8 8.5 12.7



#70
1,2,3-Trichlorobenzene
Concen: 54.026 ug/L
RT: 13.99 min Scan# 4167
Delta R.T. 0.00 min
Lab File: VU026461.D
Acq: 30 Aug 2018 20:49

Tgt Ion:180 Resp: 90029
Ion Ratio Lower Upper
180 100
182 95.3 76.5 114.7
145 28.9 23.9 35.9

