

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080918\
 Data File : VU025985.D
 Acq On : 09 Aug 2018 09:52
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 10 04:52:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080918WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 09 02:29:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	316048	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	299317	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	155125	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	109480	47.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.78%
7) Chloroethane-d5	1.68	69	90028	49.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.30%
11) 1,1-Dichloroethene-d2	2.28	63	204963	46.69	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.38%
21) 2-Butanone-d5	4.17	46	171533	89.09	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.09%
24) Chloroform-d	4.65	84	239588	48.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.82%
26) 1,2-Dichloroethane-d4	5.31	65	158264	47.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.64%
32) Benzene-d6	5.34	84	459455	49.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.86%
36) 1,2-Dichloropropane-d6	6.33	67	147304	48.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.96%
41) Toluene-d8	7.57	98	443450	49.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.74%
43) trans-1,3-Dichloropropene-	7.85	79	75944	50.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.24%
47) 2-Hexanone-d5	8.31	63	126122	92.33	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.33%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	209798	47.70	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	186174	48.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.36%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	143165	51.995	ug/L 99
3) Chloromethane	1.33	50	120304	48.694	ug/L 99
5) Vinyl chloride	1.40	62	120682	50.622	ug/L 100
6) Bromomethane	1.62	94	75083	58.898	ug/L 100
8) Chloroethane	1.70	64	71535	49.936	ug/L 97
9) Trichlorofluoromethane	1.89	101	174906	51.280	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	97277	49.028	ug/L 98
12) 1,1-Dichloroethene	2.29	96	85908	47.081	ug/L 92
13) Acetone	2.32	43	141529	118.326	ug/L 100
14) Carbon disulfide	2.48	76	302978	50.470	ug/L 100
15) Methyl Acetate	2.61	43	116219	46.387	ug/L 99
16) Methylene chloride	2.70	84	111059	47.676	ug/L 98
17) trans-1,2-Dichloroethene	2.98	96	103679	50.995	ug/L 98
18) Methyl tert-butyl Ether	3.00	73	332127	49.709	ug/L 99
19) 1,1-Dichloroethane	3.45	63	197132	49.992	ug/L 98
20) cis-1,2-Dichloroethene	4.23	96	115181	49.237	ug/L 99
22) 2-Butanone	4.26	43	188454	108.891	ug/L 99

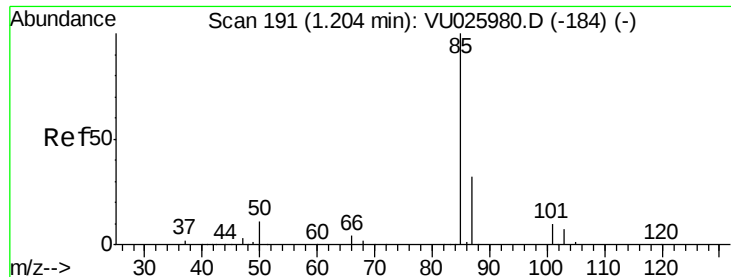
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080918\
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 Quant Title : VOC Analysis
 QLast Update : Thu Aug 09 02:29:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	61515	49.372	uq/L	99
25) Chloroform	4.67	83	204965	49.915	uq/L	98
27) 1,2-Dichloroethane	5.40	62	167539	49.400	uq/L	98
29) Cyclohexane	5.00	56	172861	51.672	uq/L	98
30) 1,1,1-Trichloroethane	4.92	97	188234	49.843	uq/L	100
31) Carbon tetrachloride	5.14	117	173750	50.383	uq/L	98
33) Benzene	5.39	78	432385	50.719	uq/L	100
34) Trichloroethene	6.19	95	112780	50.638	uq/L	98
35) Methylcyclohexane	6.42	83	183127	53.850	uq/L	99
37) 1,2-Dichloropropane	6.44	63	117678	50.448	uq/L	100
38) Bromodichloromethane	6.76	83	158283	50.933	uq/L	99
39) cis-1,3-Dichloropropene	7.27	75	179971	50.906	uq/L	100
40) 4-Methyl-2-pentanone	7.46	43	301791	94.160	uq/L	99
42) Toluene	7.64	91	464656	51.349	uq/L	98
44) trans-1,3-Dichloropropene	7.88	75	178050	52.912	uq/L	98
45) 1,1,2-Trichloroethane	8.07	97	111058	49.938	uq/L	98
46) Tetrachloroethene	8.23	164	97876	51.640	uq/L	99
48) 2-Hexanone	8.36	43	261290	104.643	uq/L	99
49) Dibromochloromethane	8.48	129	137445	51.252	uq/L	96
50) 1,2-Dibromoethane	8.59	107	119344	49.273	uq/L	99
51) Chlorobenzene	9.12	112	309398	50.710	uq/L	99
52) Ethylbenzene	9.25	91	514906	52.002	uq/L	99
53) m,p-Xylene	9.38	106	199525	52.735	uq/L	98
54) o-xylene	9.78	106	196638	52.366	uq/L	98
55) Styrene	9.79	104	336906	53.889	uq/L	99
56) Isopropylbenzene	10.17	105	517958	53.542	uq/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	184823	48.899	uq/L	98
59) 1,2,3-Trichloropropane	10.50	75	145380	48.323	uq/L	99
61) Bromoform	9.96	173	103245	49.156	uq/L	99
62) 1,3-Dichlorobenzene	11.42	146	242680	50.251	uq/L	98
63) 1,4-Dichlorobenzene	11.51	146	251287	49.636	uq/L	99
65) 1,2-Dichlorobenzene	11.88	146	255439	49.692	uq/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	40914	45.348	uq/L	92
67) 1,3,5-Trichlorobenzene	12.89	180	190885	52.886	uq/L	100
68) 1,2,4-trichlorobenzene	13.51	180	160958	52.734	uq/L	99
69) Naphthalene	13.74	128	491044	49.868	uq/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	169460	51.656	uq/L	99

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



#2

Dichlorodifluoromethane

Concen: 51.995 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

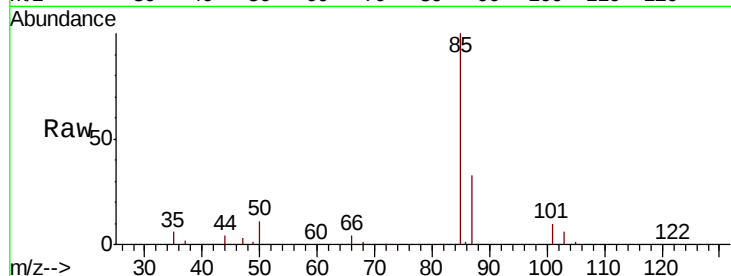
Instrument :
MSVOA_U
ClientSampleId :

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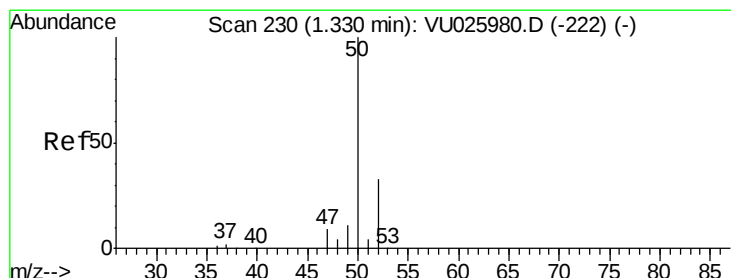
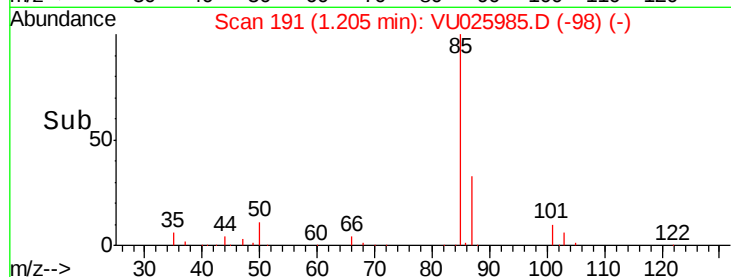
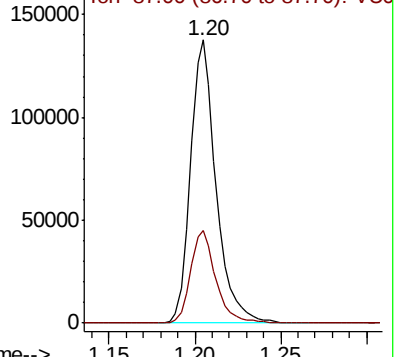
Ion Ratio Lower Upper

85 100

87 32.3 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU025980.D
Ion 87.00 (86.70 to 87.70): VU025980.D



#3

Chloromethane

Concen: 48.694 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025985.D

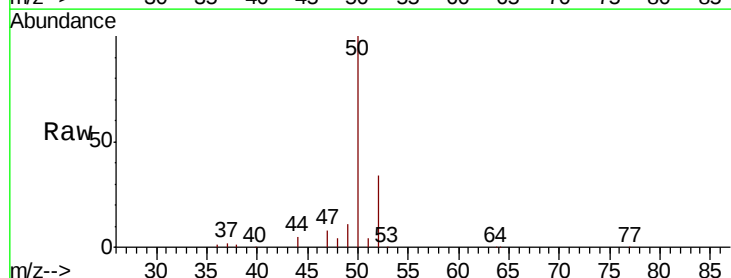
Acq: 09 Aug 2018 09:52

Tgt Ion: 50 Resp: 120304

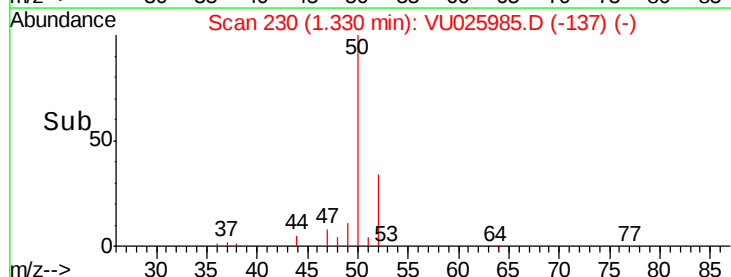
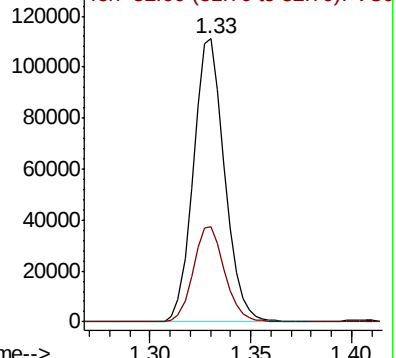
Ion Ratio Lower Upper

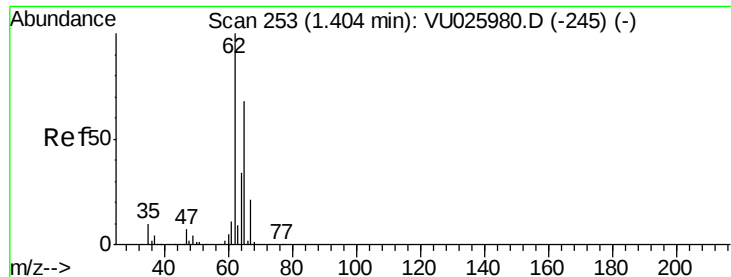
50 100

52 33.7 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VU025980.D
Ion 52.00 (51.70 to 52.70): VU025980.D





#5

Vinyl chloride

Concen: 50.622 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

Instrument :

MSVOA_U

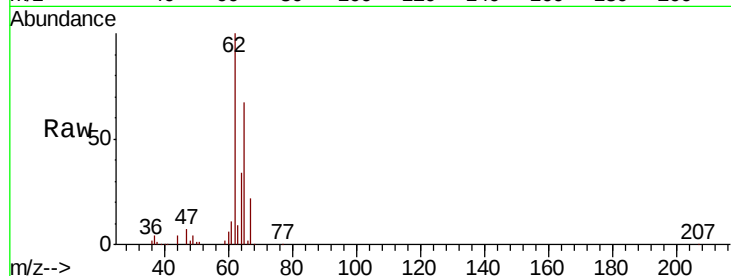
ClientSampleId :

Tot Ion: 62 Resp: 120682

Ion Ratio Lower Upper

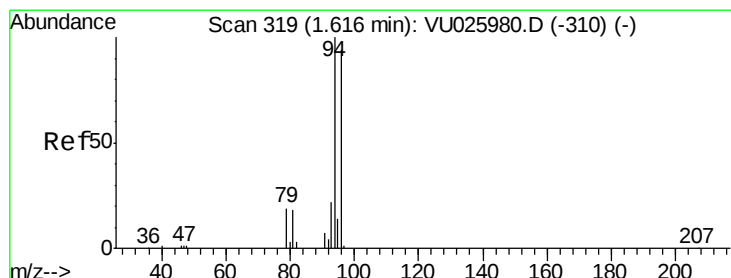
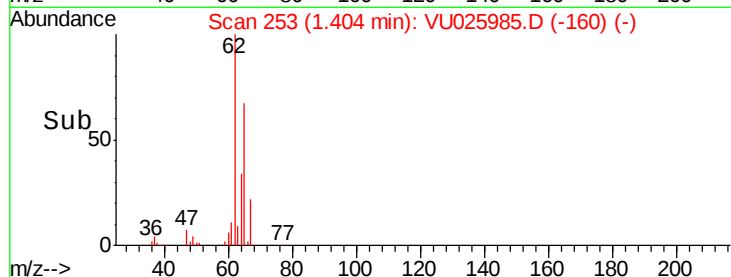
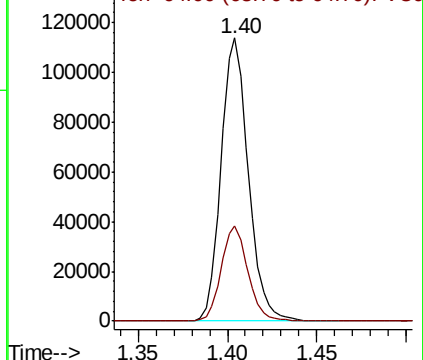
62 100

64 33.6 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 58.898 ug/L

RT: 1.62 min Scan# 321

Delta R.T. 0.01 min

Lab File: VU025985.D

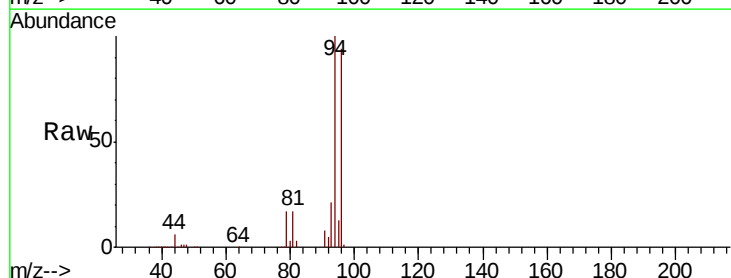
Acq: 09 Aug 2018 09:52

Tgt Ion: 94 Resp: 75083

Ion Ratio Lower Upper

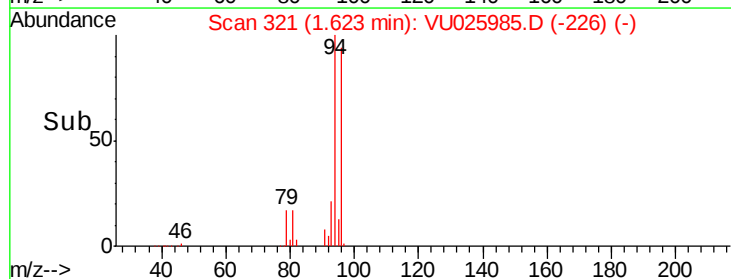
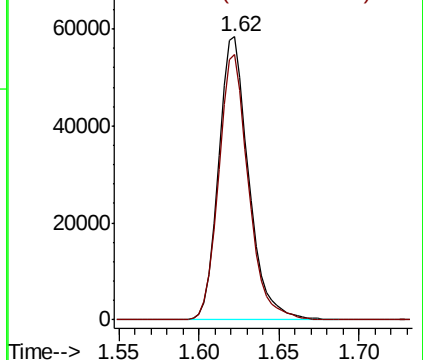
94 100

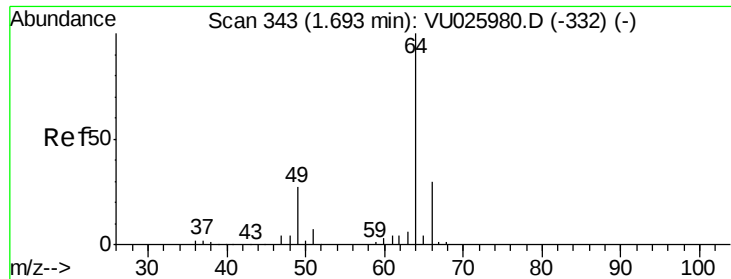
96 93.9 65.6 121.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

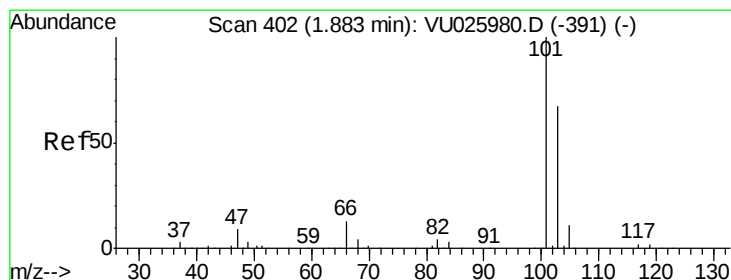
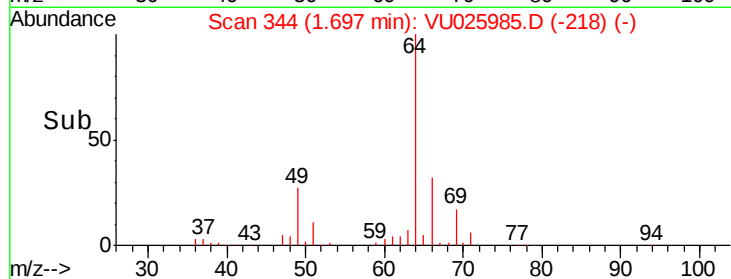
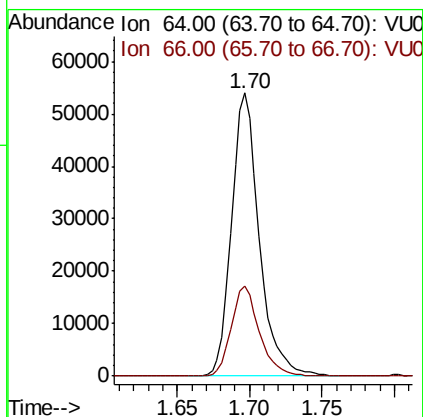
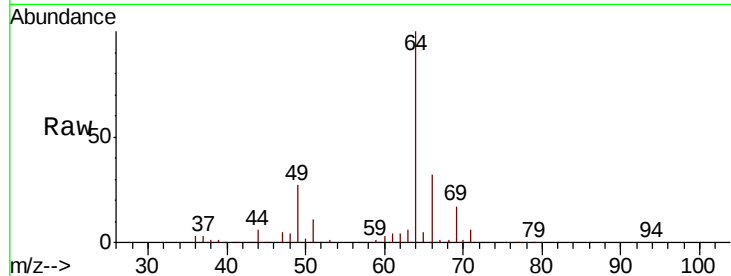




#8
Chloroethane
Concen: 49.936 ug/L
RT: 1.70 min Scan# 344
Delta R.T. 0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52

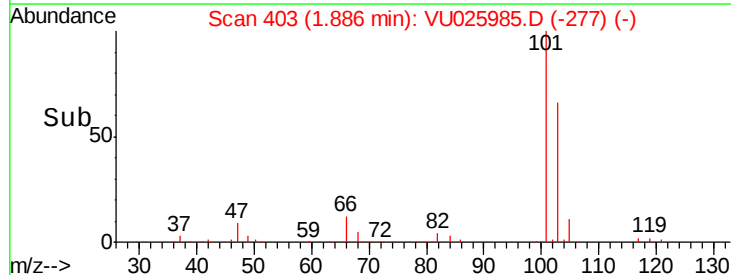
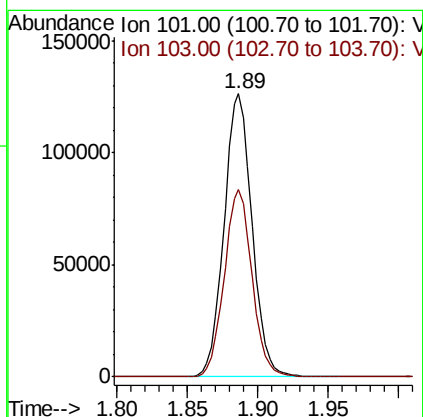
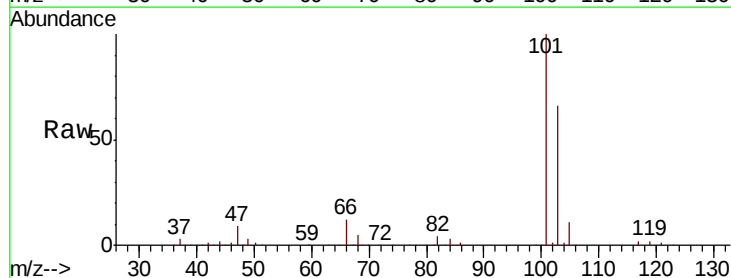
Instrument :
MSVOA_U
ClientSampled :

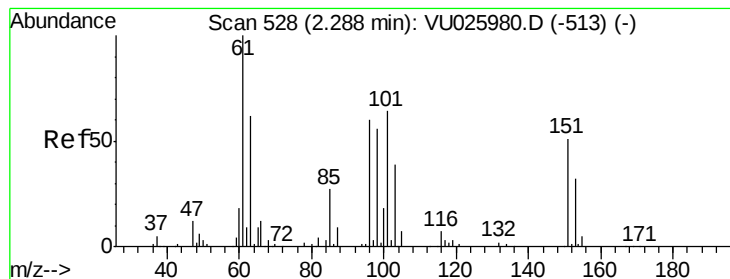
Tot Ion: 64 Resp: 71535
Ion Ratio Lower Upper
64 100
66 31.8 21.2 39.4



#9
Trichlorofluoromethane
Concen: 51.280 ug/L
RT: 1.89 min Scan# 403
Delta R.T. 0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52

Tgt Ion:101 Resp: 174906
Ion Ratio Lower Upper
101 100
103 65.5 52.7 79.1





#10

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

Concen: 49.028 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

Instrument :

MSVOA_U

ClientSampleId :

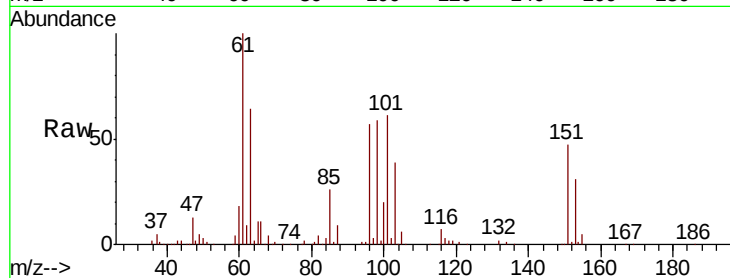
Tot Ion:101 Resp: 97277

Ion Ratio Lower Upper

101 100

85 44.2 36.0 54.0

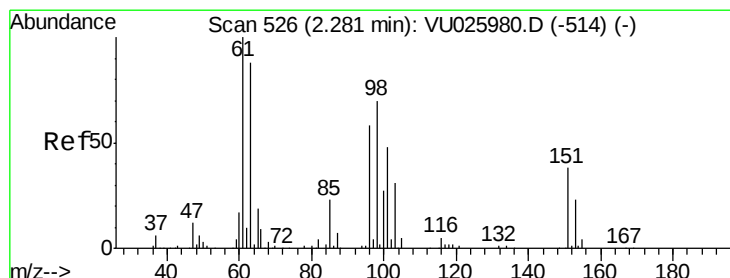
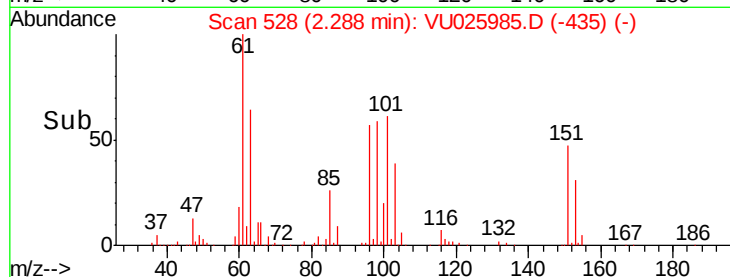
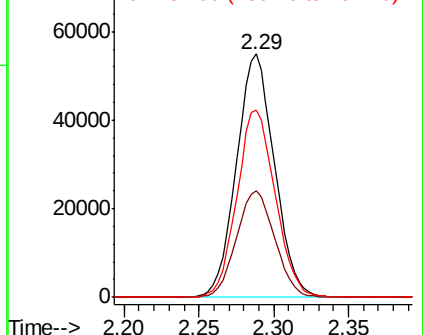
151 77.5 64.2 96.2



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: 47.081 ug/L

RT: 2.29 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

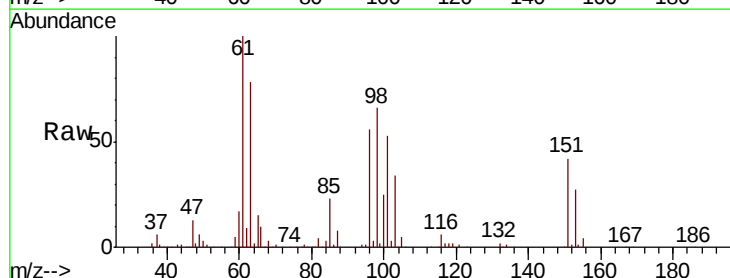
Tgt Ion: 96 Resp: 85908

Ion Ratio Lower Upper

96 100

61 177.8 121.2 225.2

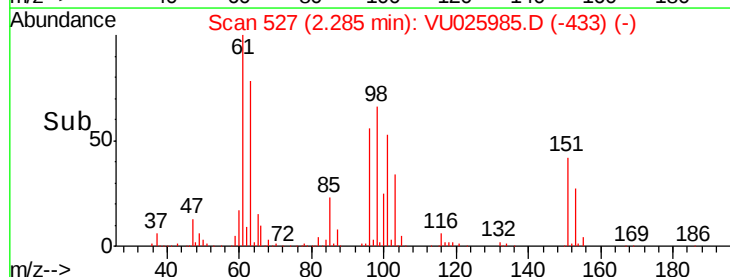
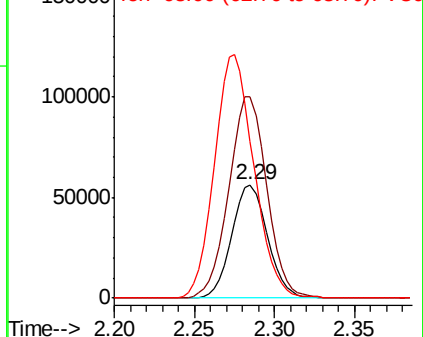
63 138.4 108.7 201.9

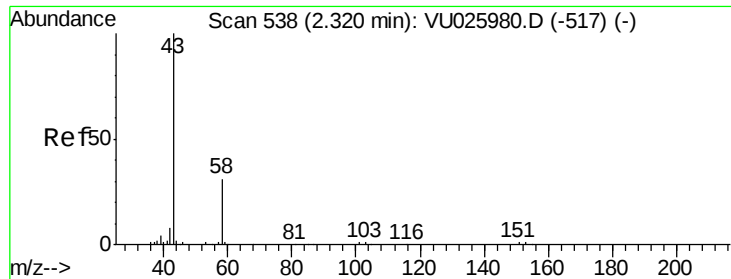


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 118.326 ug/L

RT: 2.32 min Scan# 537

Delta R.T. -0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

Instrument :

MSVOA_U

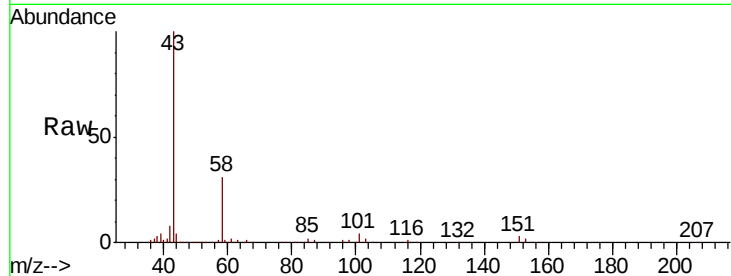
ClientSampleId :

Tot Ion: 43 Resp: 141529

Ion Ratio Lower Upper

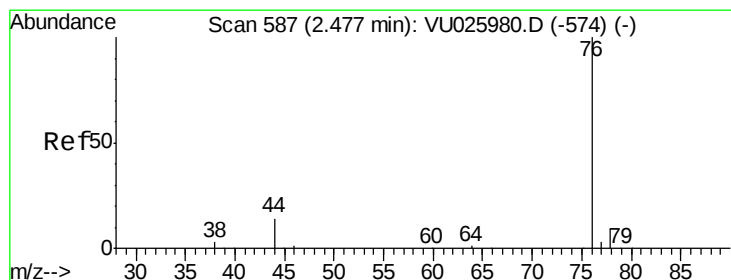
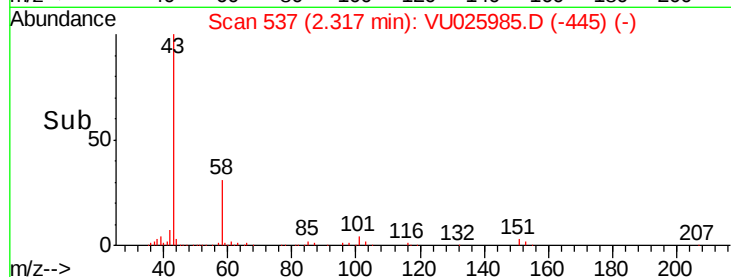
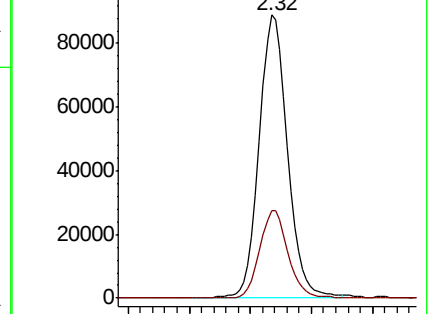
43 100

58 31.0 0.0 61.8



Abundance Ion 43.00 (42.70 to 43.70): VU025980.D (-517) (-)

Ion 58.00 (57.70 to 58.70): VU025980.D (-517) (-)



#14

Carbon disulfide

Concen: 50.470 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025985.D

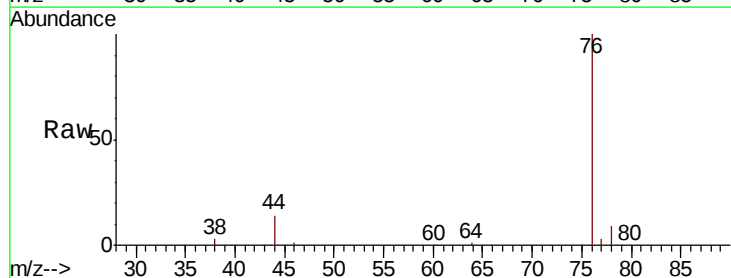
Acq: 09 Aug 2018 09:52

Tgt Ion: 76 Resp: 302978

Ion Ratio Lower Upper

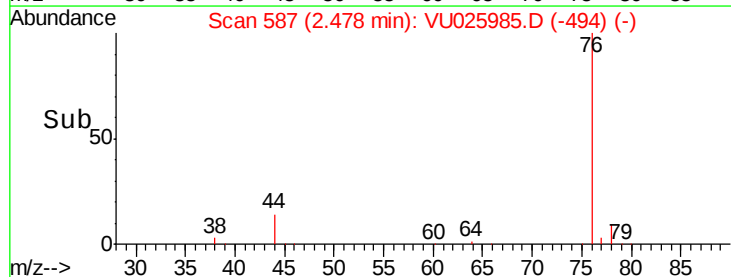
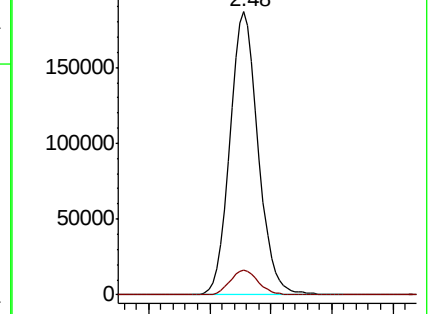
76 100

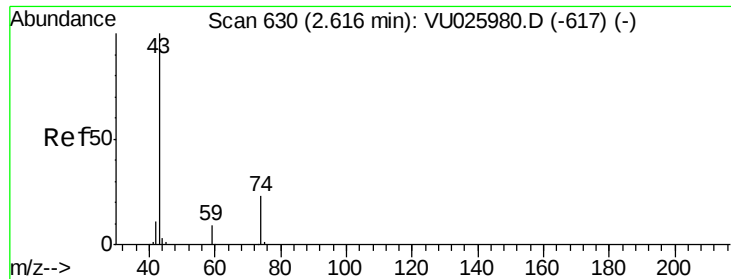
78 8.8 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU025980.D (-574) (-)

Ion 78.00 (77.70 to 78.70): VU025980.D (-574) (-)

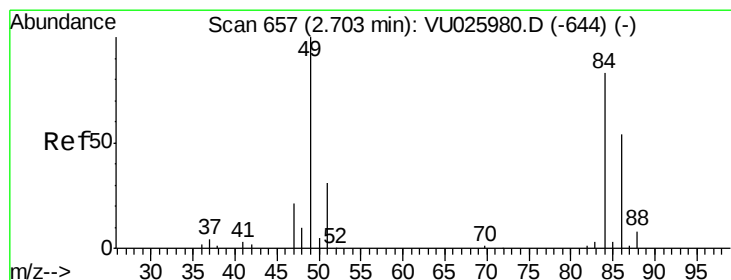
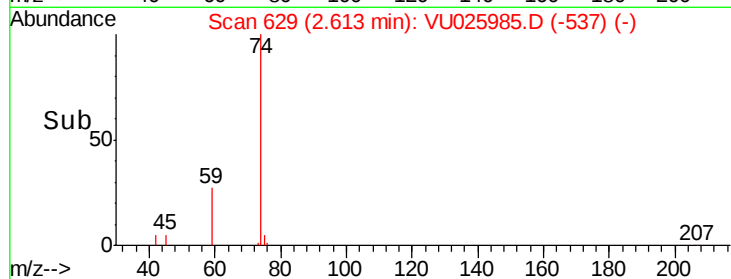
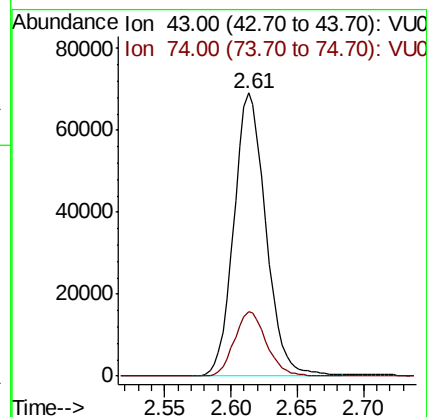
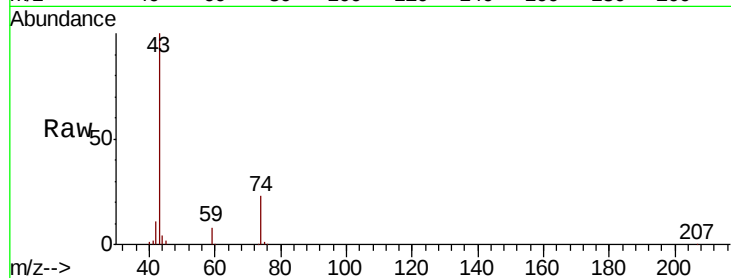




#15
Methvl Acetate
Concen: 46.387 ug/L
RT: 2.61 min Scan# 629
Delta R.T. -0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52

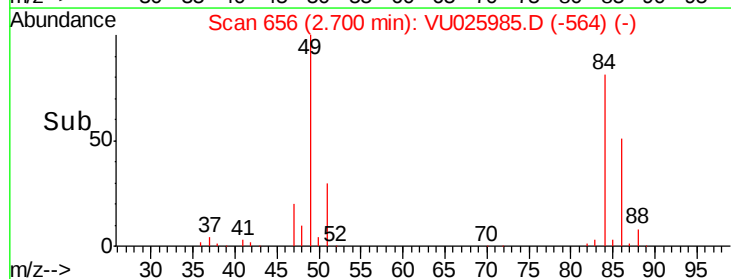
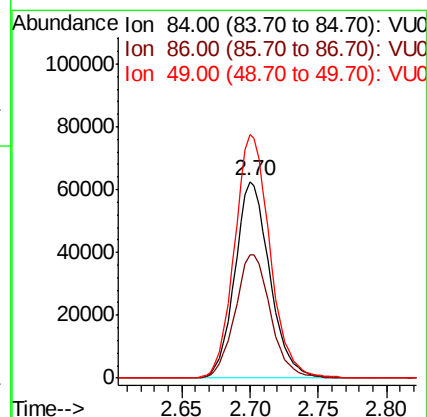
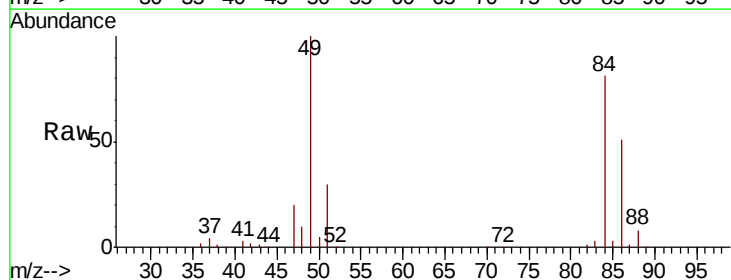
Instrument :
MSVOA_U
ClientSampleId :

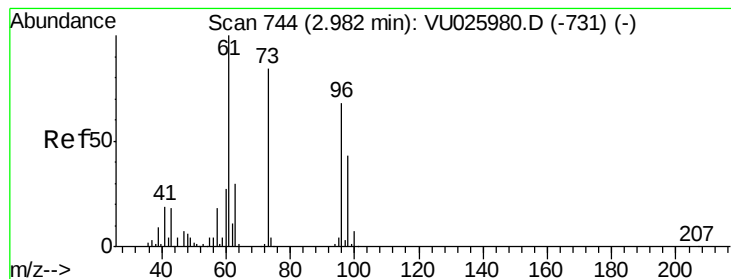
Tot Ion: 43 Resp: 116219
Ion Ratio Lower Upper
43 100
74 22.7 17.8 26.8



#16
Methylene chloride
Concen: 47.676 ug/L
RT: 2.70 min Scan# 656
Delta R.T. -0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52

Tgt Ion: 84 Resp: 111059
Ion Ratio Lower Upper
84 100
86 62.9 45.8 85.0
49 123.7 85.0 157.8





#17

trans-1,2-Dichloroethene

Concen: 50.995 ug/L

RT: 2.98 min Scan# 744

Delta R.T. 0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

Instrument :
MSVOA_U
ClientSampled :

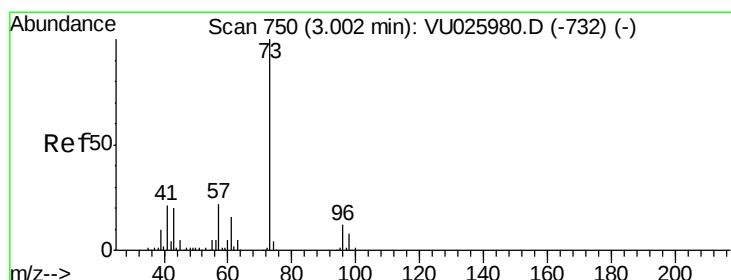
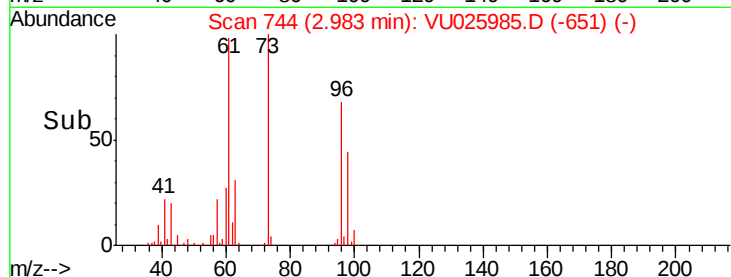
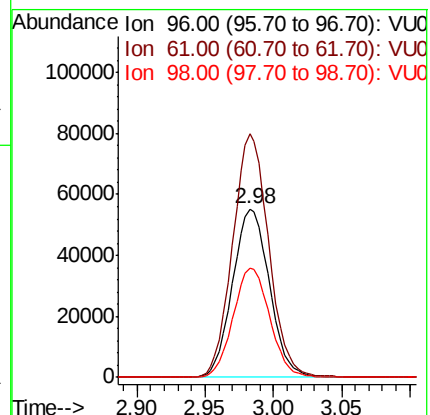
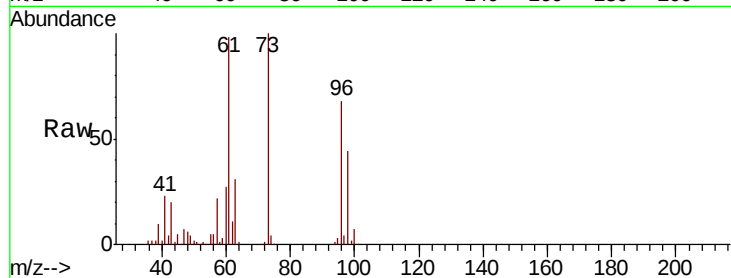
Tot Ion: 96 Resp: 103679

Ion Ratio Lower Upper

96 100

61 144.6 102.8 190.8

98 65.1 44.7 83.1



#18

Methyl tert-butyl Ether

Concen: 49.709 ug/L

RT: 3.00 min Scan# 749

Delta R.T. -0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

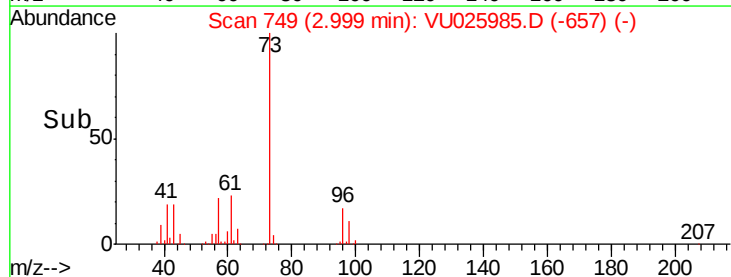
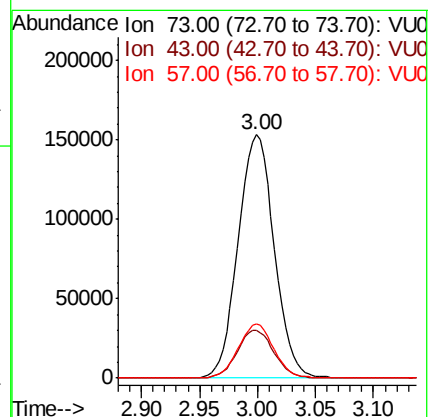
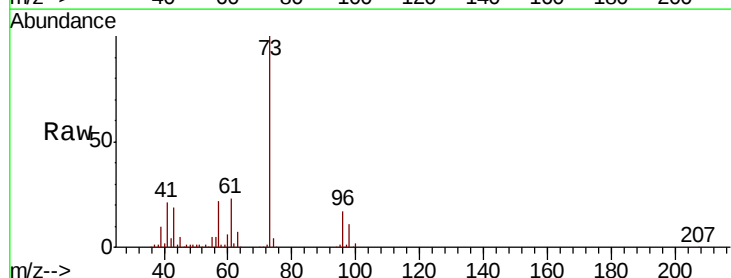
Tgt Ion: 73 Resp: 332127

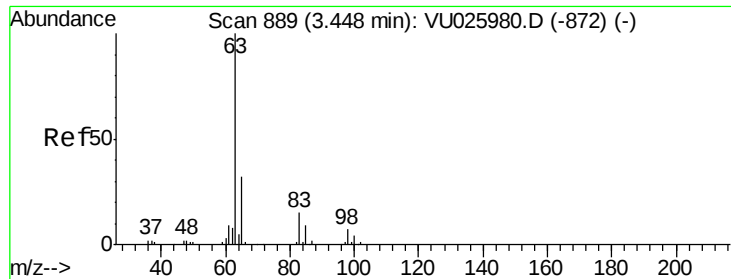
Ion Ratio Lower Upper

73 100

43 19.9 16.3 24.5

57 21.9 17.1 25.7





#19

1,1-Dichloroethane

Concen: 49.992 ug/L

RT: 3.45 min Scan# 888

Delta R.T. -0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

Instrument :

MSVOA_U

ClientSampleId :

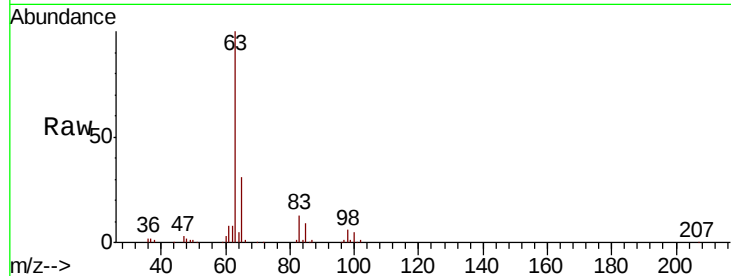
Tot Ion: 63 Resp: 197132

Ion Ratio Lower Upper

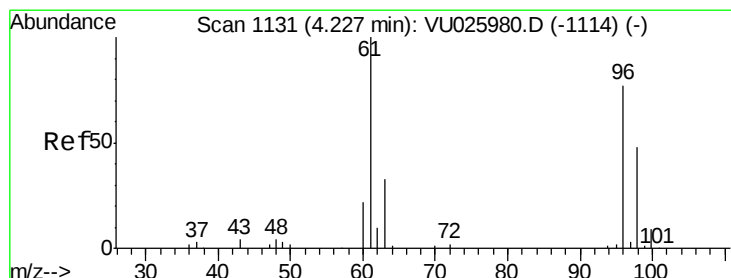
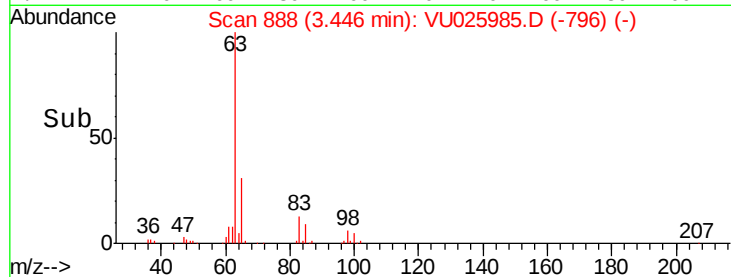
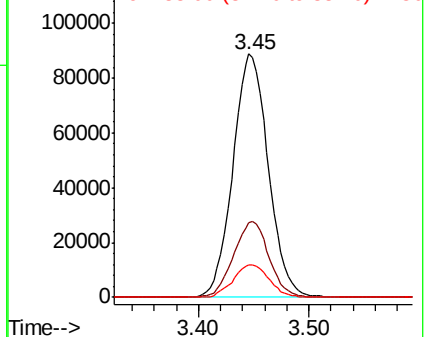
63 100

65 30.8 22.4 41.6

83 13.2 10.1 18.9



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: 49.237 ug/L

RT: 4.23 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

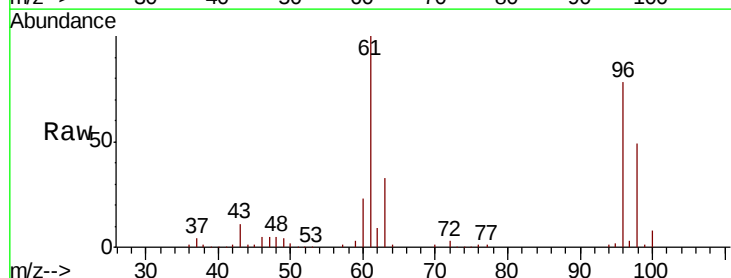
Tgt Ion: 96 Resp: 115181

Ion Ratio Lower Upper

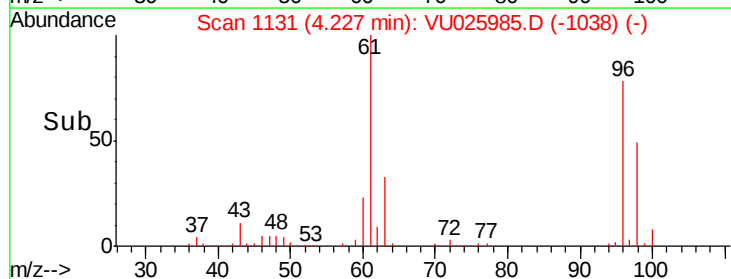
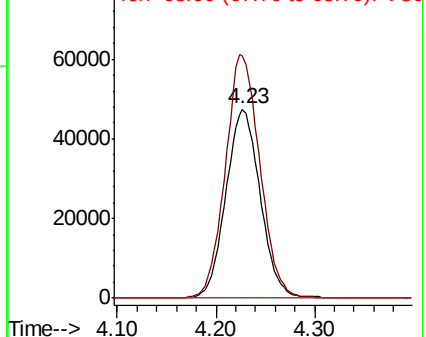
96 100

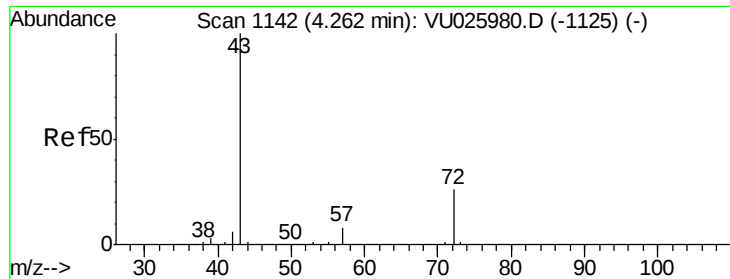
61 128.2 90.7 168.5

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: 108.891 ug/L

RT: 4.26 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

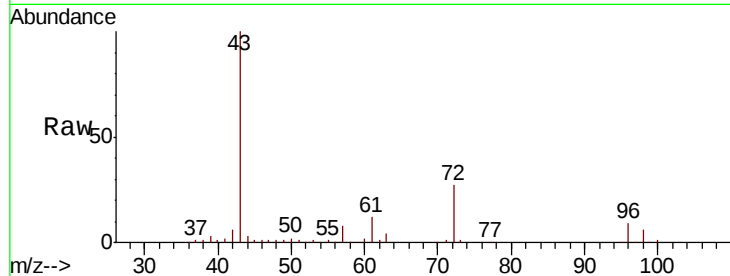
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 188454

Ion Ratio Lower Upper

43 100

72 27.6 13.5 40.5



Abundance Ion 43.00 (42.70 to 43.70): VU025980.D (-1125) (-)

Ion 72.00 (71.70 to 72.70): VU025980.D (-1125) (-)

4.26

80000

60000

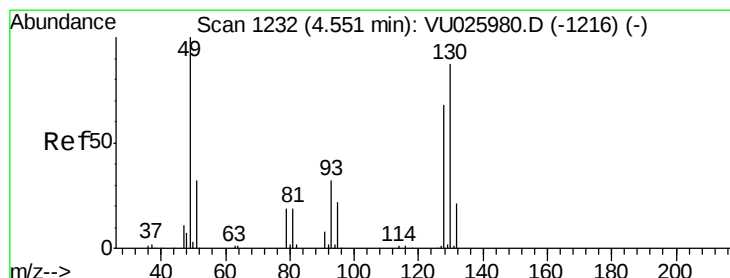
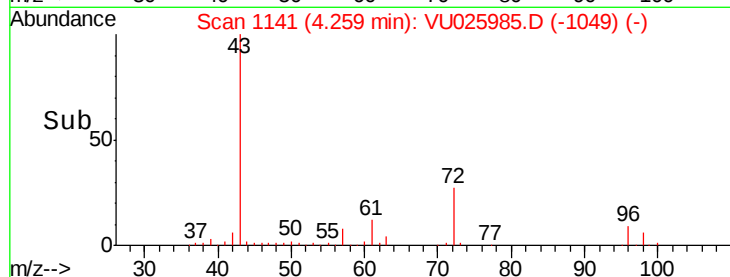
40000

20000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 49.372 ug/L

RT: 4.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

Tgt Ion:128 Resp: 61515

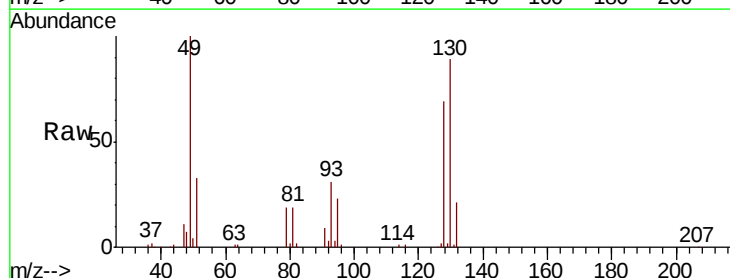
Ion Ratio Lower Upper

128 100

49 145.4 103.0 191.2

130 128.9 89.5 166.1

51 48.0 37.7 56.5



Abundance Ion 128.00 (127.70 to 128.70): VU025980.D (-1216) (-)

Ion 49.00 (48.70 to 49.70): VU025980.D (-1216) (-)

Ion 130.00 (129.70 to 130.70): VU025980.D (-1216) (-)

Ion 51.00 (50.70 to 51.70): VU025980.D (-1216) (-)

60000

50000

40000

30000

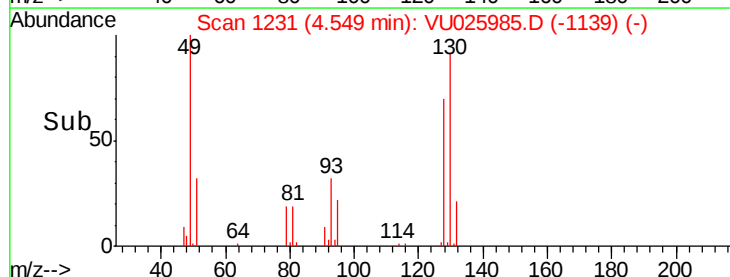
20000

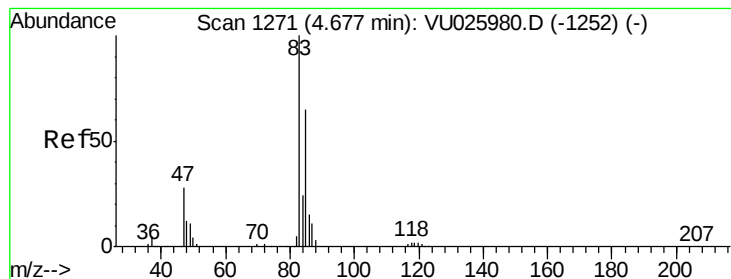
10000

0

4.45 4.50 4.55 4.60 4.65

Time-->





#25

Chloroform

Concen: 49.915 ug/L

RT: 4.67 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

Instrument :

MSVOA_U

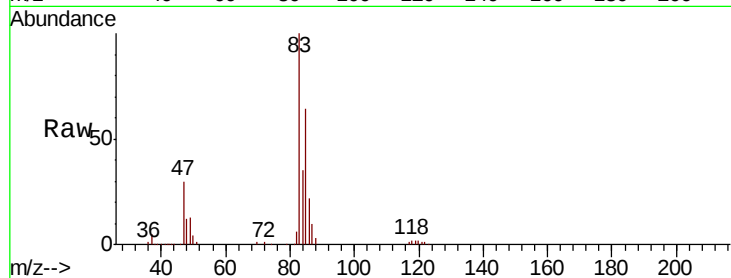
ClientSampleId :

Tot Ion: 83 Resp: 204965

Ion Ratio Lower Upper

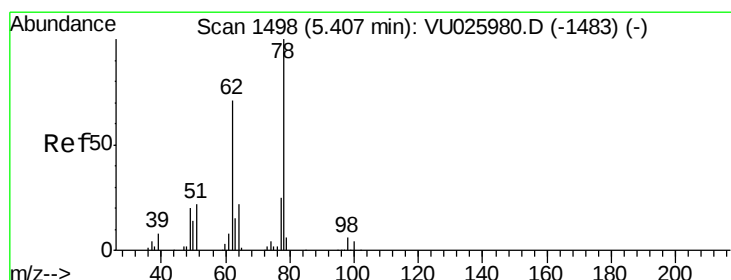
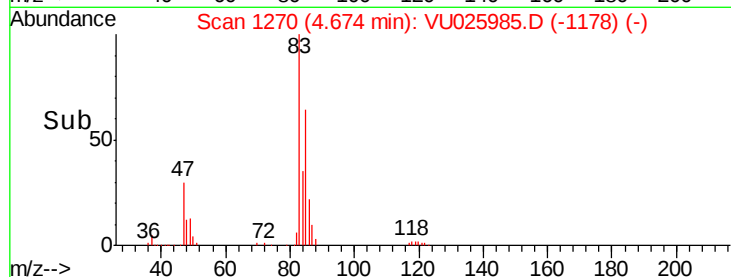
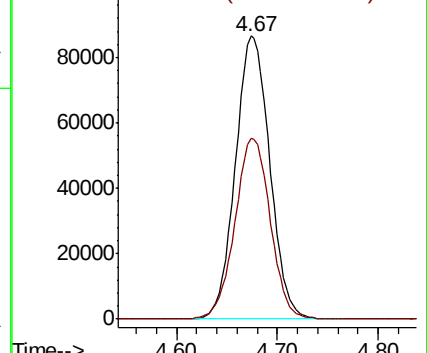
83 100

85 63.9 45.9 85.3



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 49.400 ug/L

RT: 5.40 min Scan# 1497

Delta R.T. -0.00 min

Lab File: VU025985.D

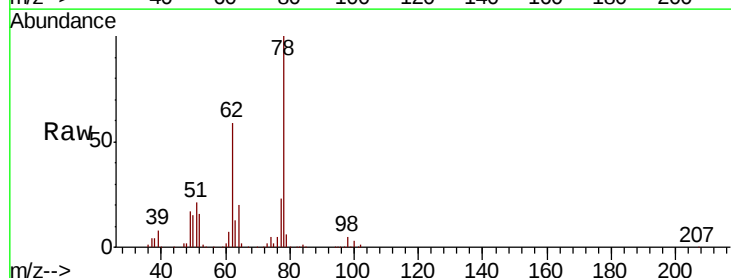
Acq: 09 Aug 2018 09:52

Tgt Ion: 62 Resp: 167539

Ion Ratio Lower Upper

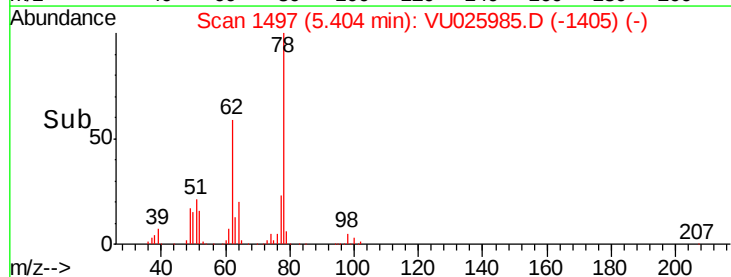
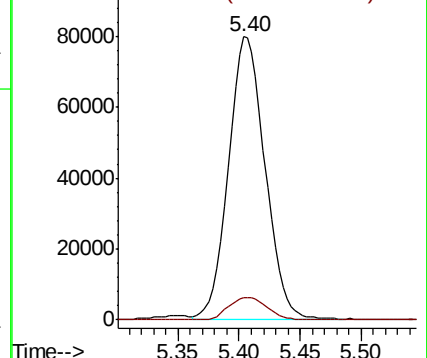
62 100

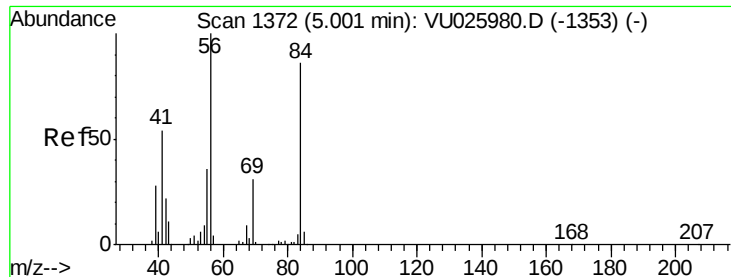
98 8.0 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

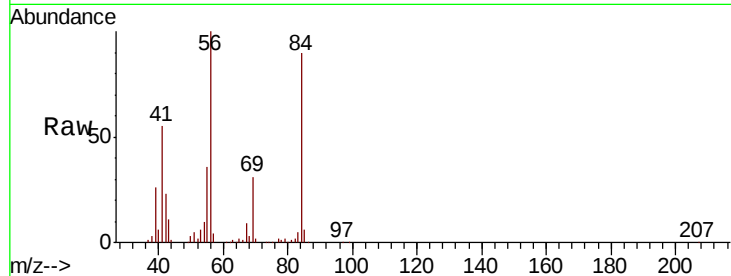




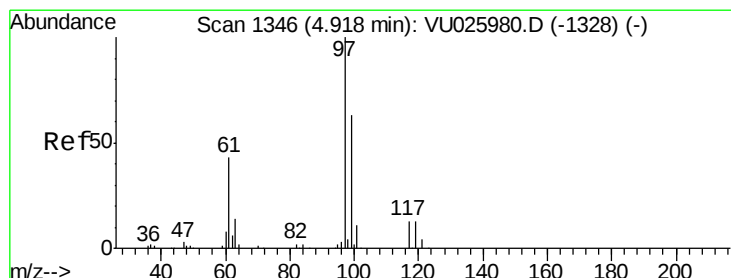
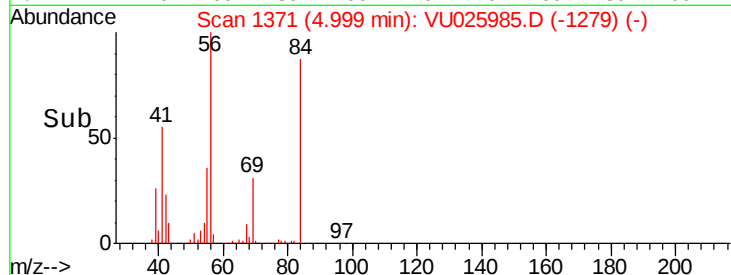
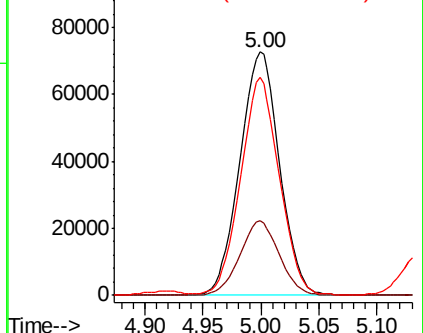
#29
Cyclohexane
Concen: 51.672 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 172861
Ion Ratio Lower Upper
56 100
69 30.0 24.6 37.0
84 87.3 68.6 103.0

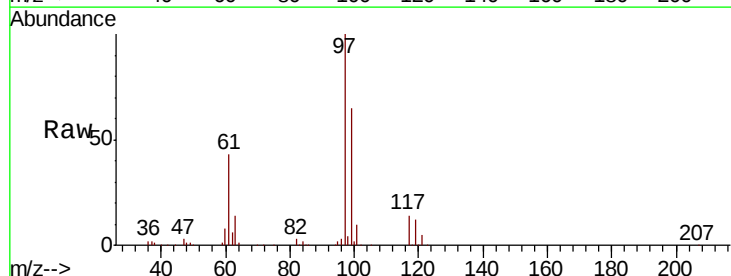


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

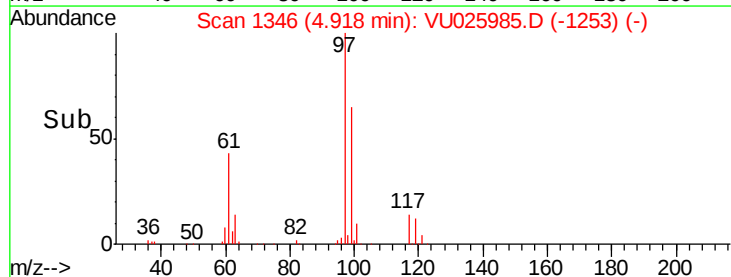
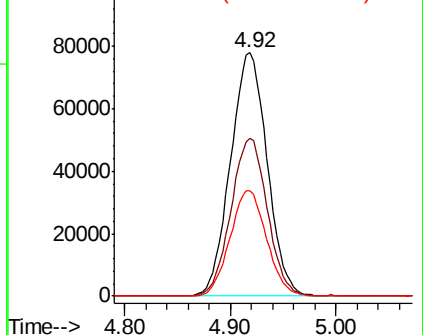


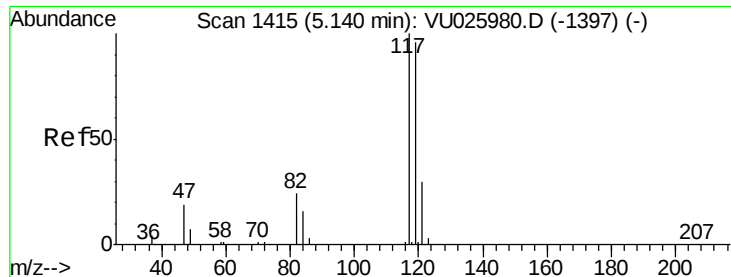
#30
1,1,1-Trichloroethane
Concen: 49.843 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52

Tgt Ion: 97 Resp: 188234
Ion Ratio Lower Upper
97 100
99 64.3 51.8 77.6
61 43.3 34.7 52.1



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

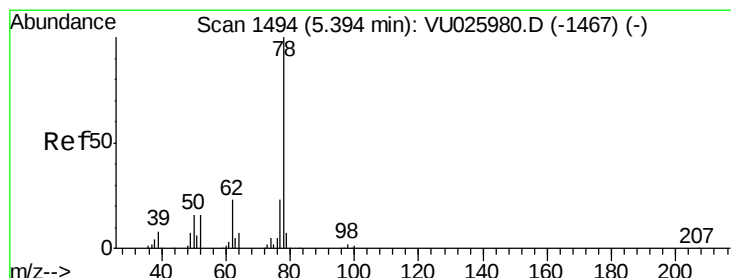
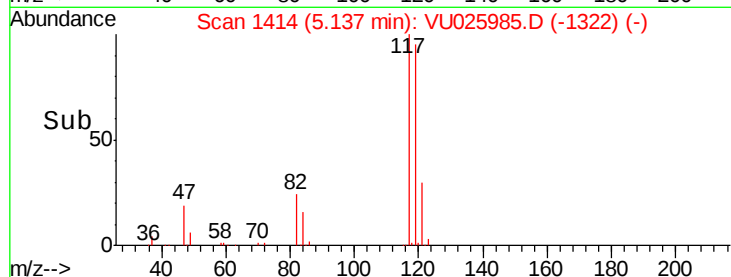
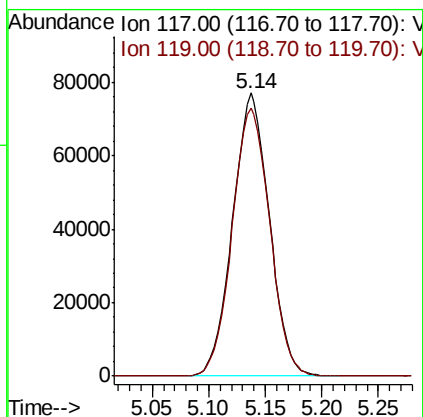
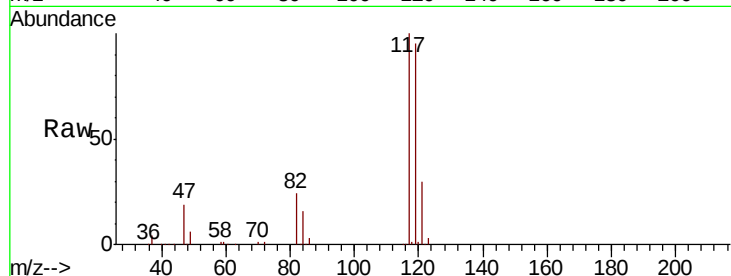




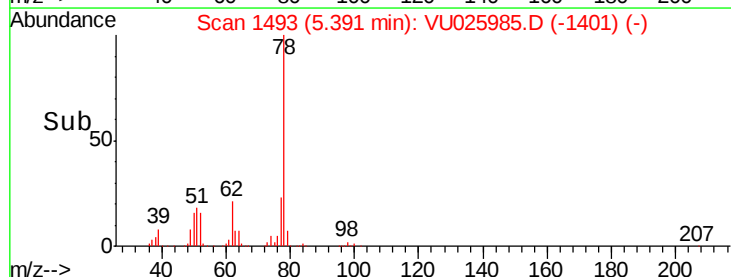
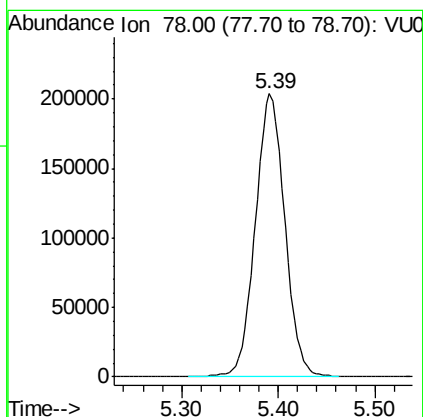
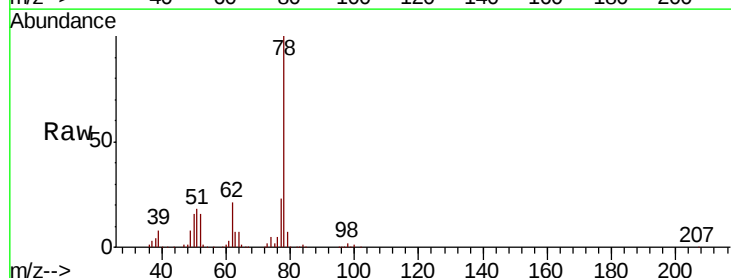
#31
Carbon tetrachloride
Concen: 50.383 ug/L
RT: 5.14 min Scan# 1414
Delta R.T. -0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52

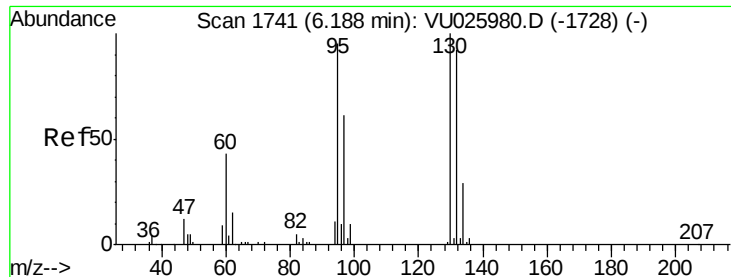
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 173750
Ion Ratio Lower Upper
117 100
119 97.1 76.3 114.5



#33
Benzene
Concen: 50.719 ug/L
RT: 5.39 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52
Tgt Ion: 78 Resp: 432385

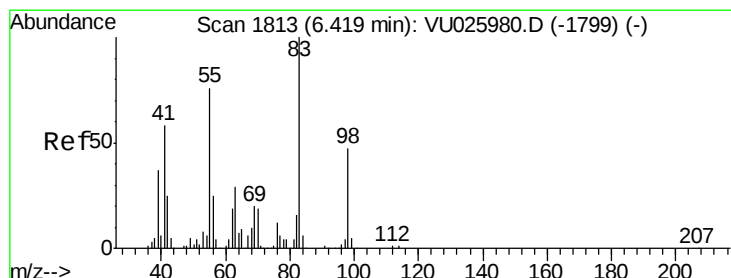
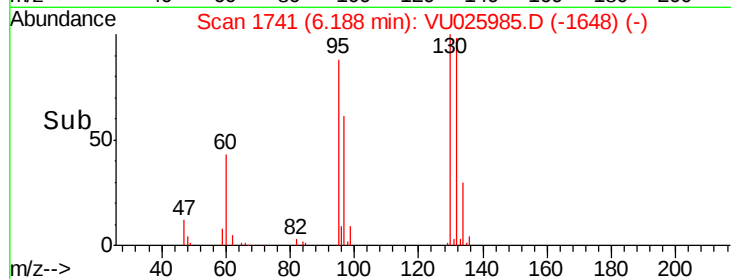
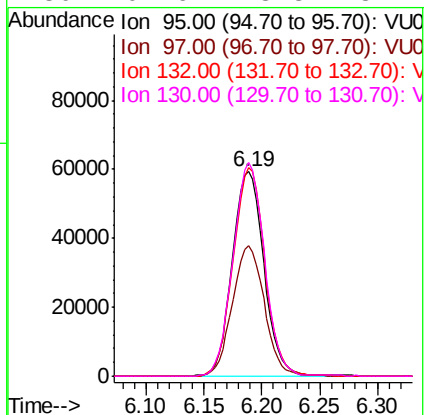
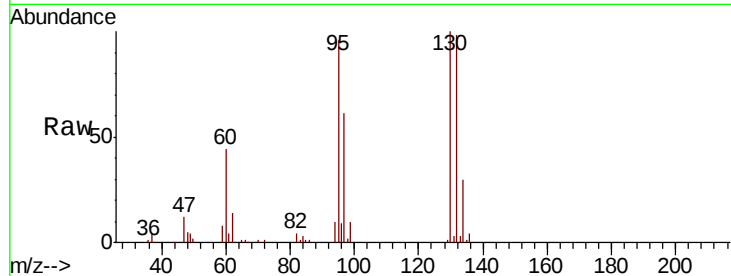




#34
 Trichloroethene
 Concen: 50.638 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VU025985.D
 Acq: 09 Aug 2018 09:52

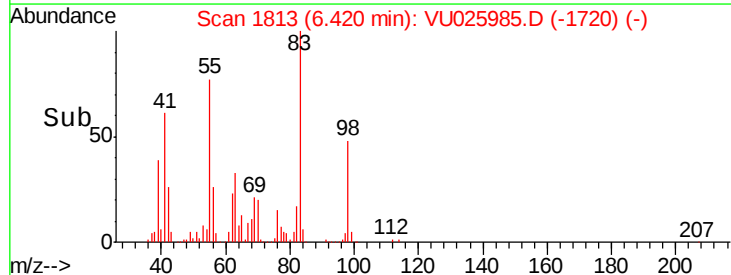
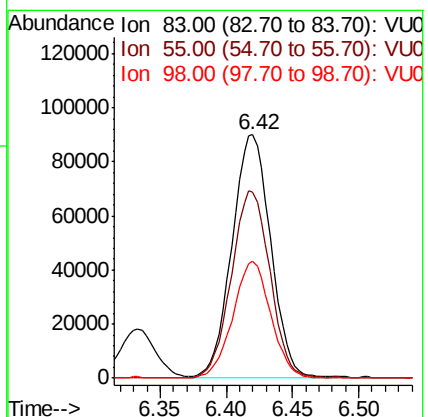
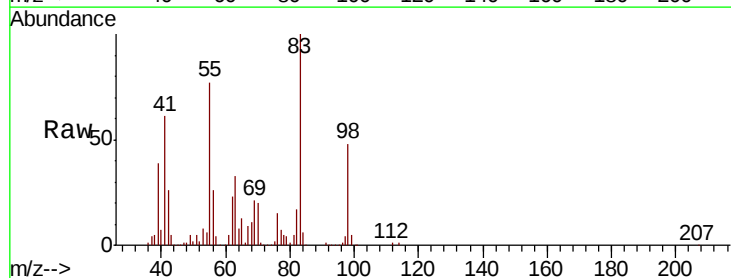
Instrument :
 MSVOA_U
 ClientSampleId :

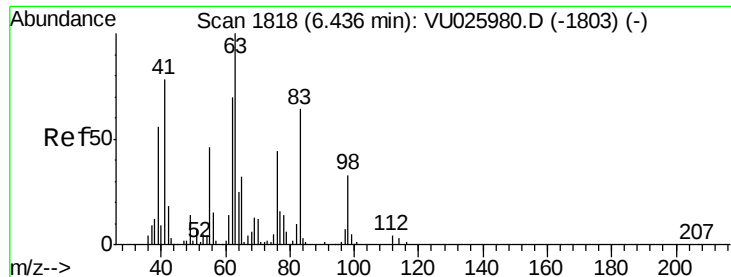
Tot Ion:	95	Resp:	112780
Ion	Ratio	Lower	Upper
95	100		
97	63.7	45.2	84.0
132	102.1	68.2	126.6
130	104.6	73.8	137.2



#35
 Methylcyclohexane
 Concen: 53.850 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VU025985.D
 Acq: 09 Aug 2018 09:52

Tgt Ion:	83	Resp:	183127
Ion	Ratio	Lower	Upper
83	100		
55	76.6	61.0	91.6
98	47.0	38.1	57.1

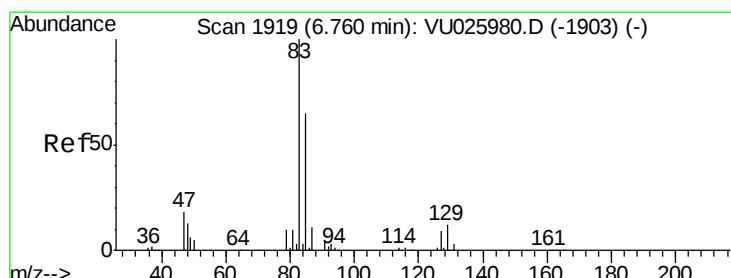
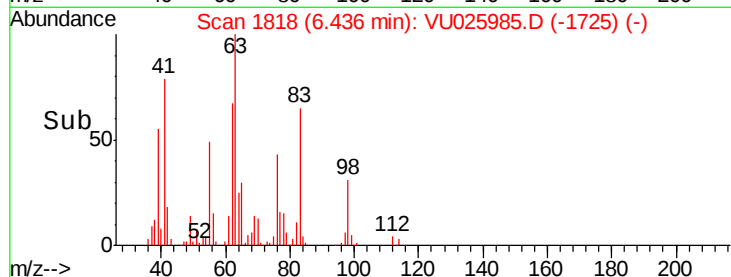
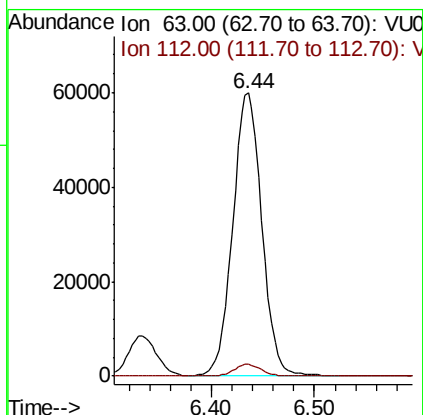
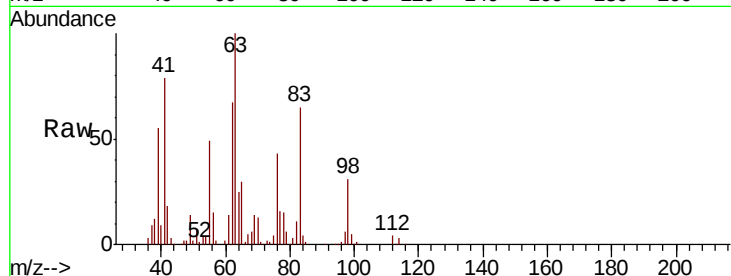




#37
 1,2-Dichloropropane
 Concen: 50.448 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: VU025985.D
 Acq: 09 Aug 2018 09:52

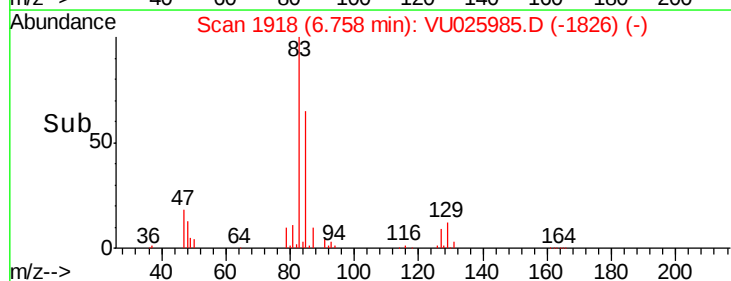
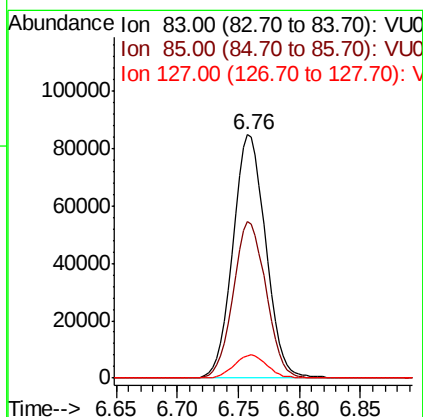
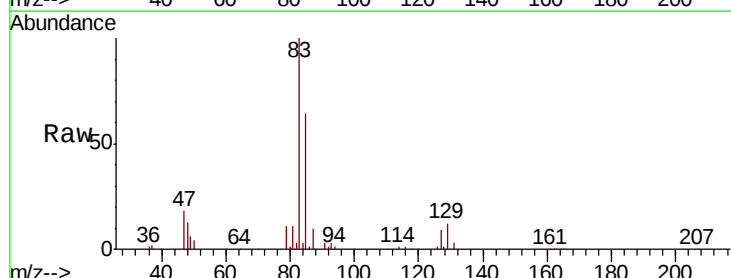
Instrument :
 MSVOA_U
 ClientSampleId :

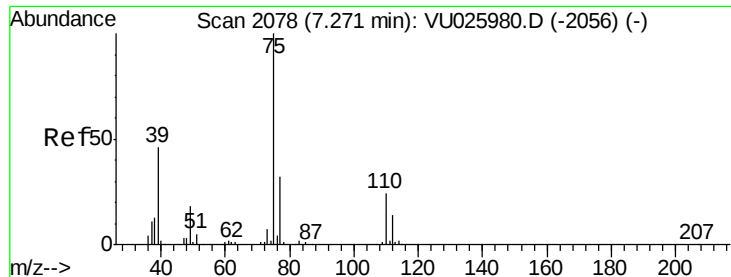
Tot Ion: 63 Resp: 117678
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.2 4.8



#38
 Bromodichloromethane
 Concen: 50.933 ug/L
 RT: 6.76 min Scan# 1918
 Delta R.T. -0.00 min
 Lab File: VU025985.D
 Acq: 09 Aug 2018 09:52

Tgt Ion: 83 Resp: 158283
 Ion Ratio Lower Upper
 83 100
 85 64.2 45.3 84.1
 127 9.3 7.4 11.2

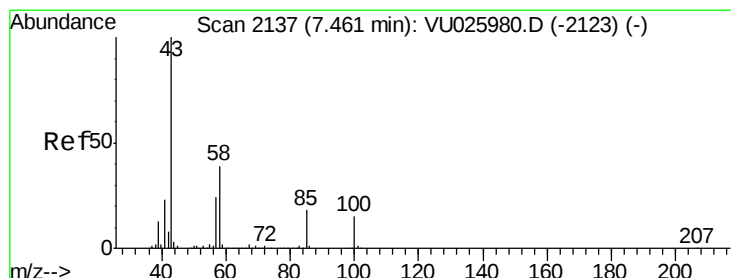
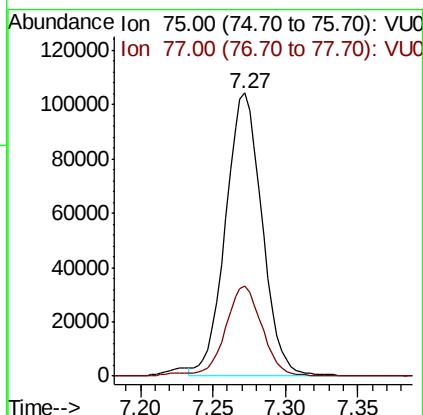
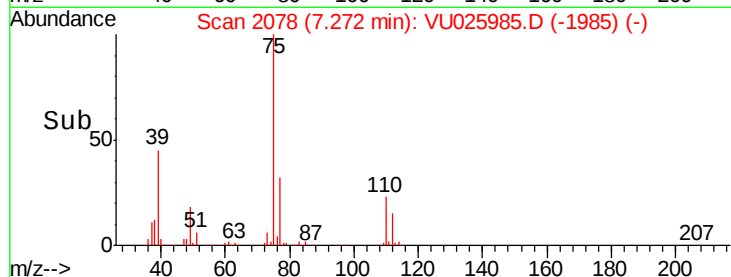
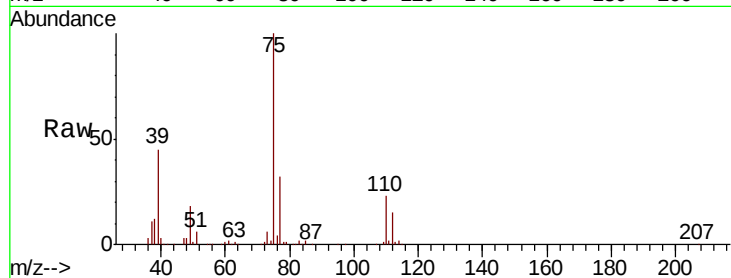




#39
 cis-1,3-Dichloropropene
 Concen: 50.906 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU025985.D
 Acq: 09 Aug 2018 09:52

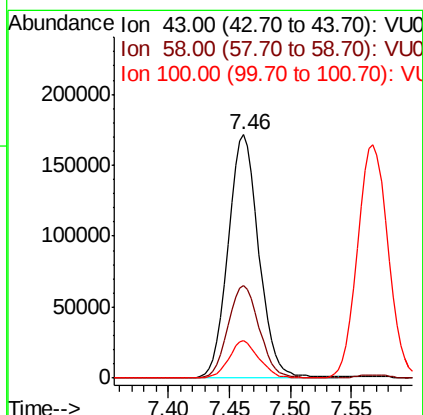
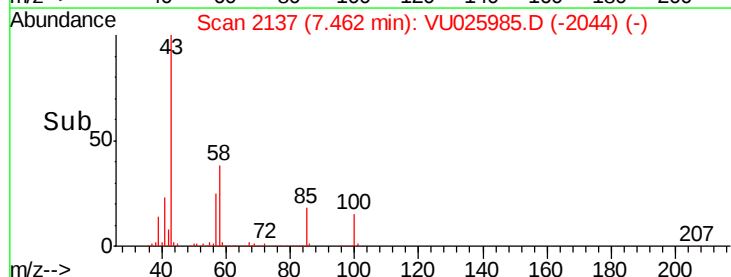
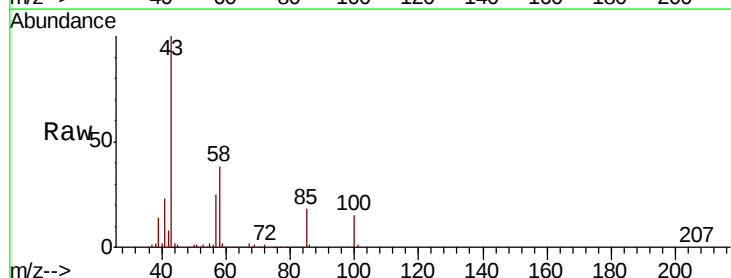
Instrument :
 MSVOA_U
 ClientSampleId :

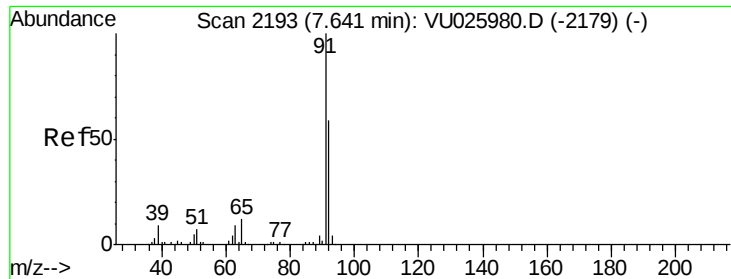
Tot Ion: 75 Resp: 179971
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 94.160 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU025985.D
 Acq: 09 Aug 2018 09:52

Tgt Ion: 43 Resp: 301791
 Ion Ratio Lower Upper
 43 100
 58 38.6 30.6 46.0
 100 15.1 11.8 17.6





#42

Toluene

Concen: 51.349 ug/L

RT: 7.64 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

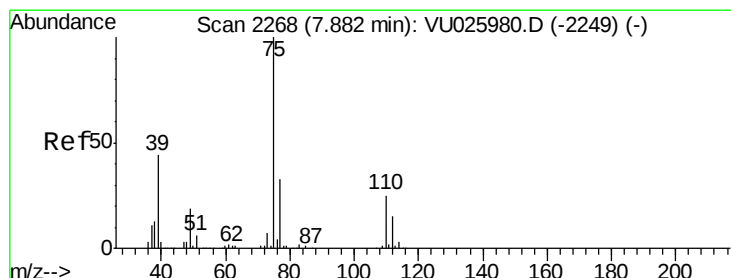
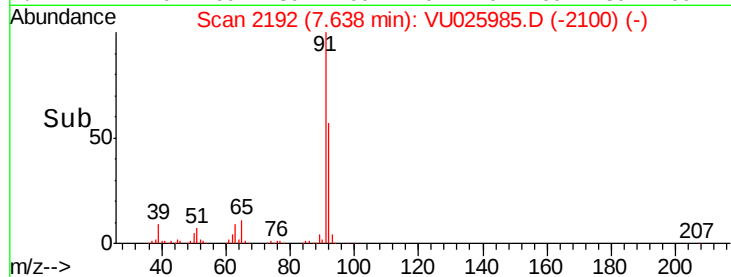
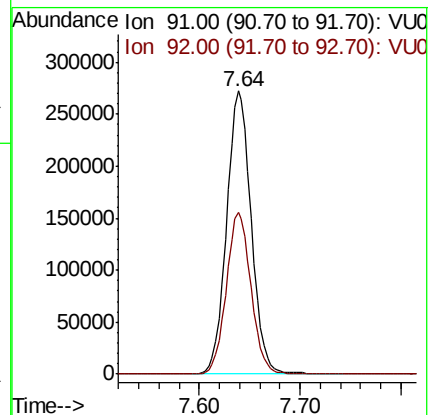
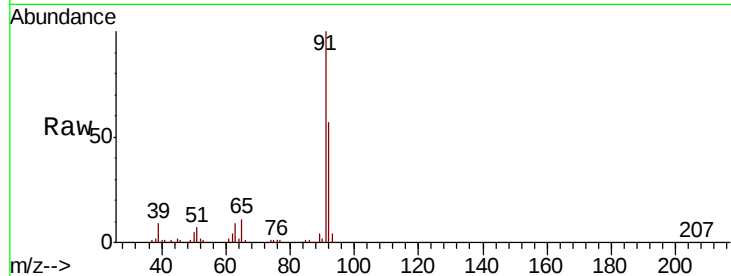
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 464656

Ion Ratio Lower Upper

91 100

92 57.2 41.0 76.2



#44

trans-1,3-Dichloropropene

Concen: 52.912 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025985.D

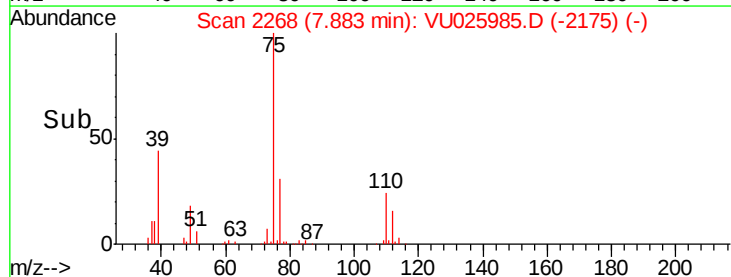
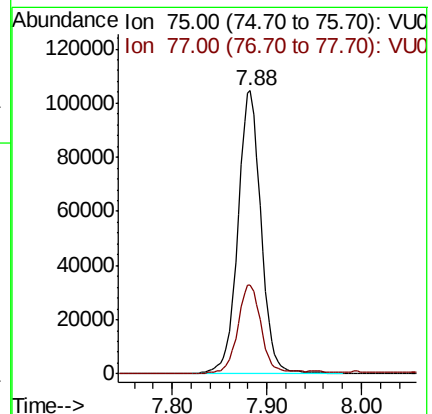
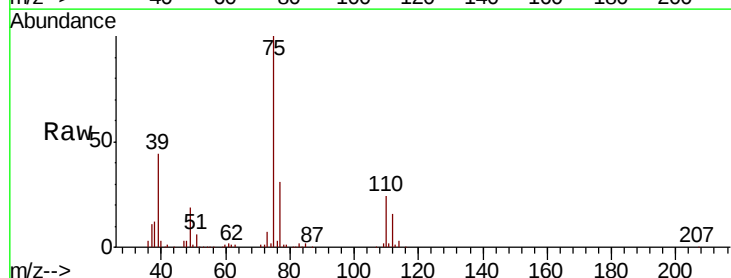
Acq: 09 Aug 2018 09:52

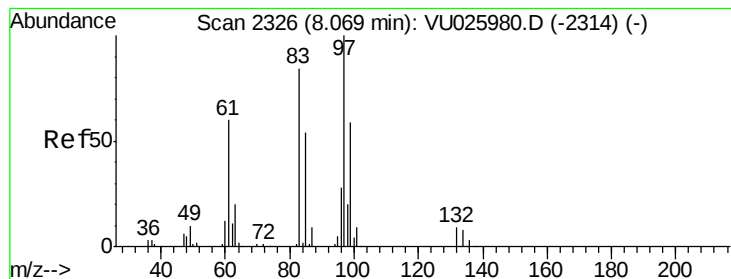
Tgt Ion: 75 Resp: 178050

Ion Ratio Lower Upper

75 100

77 31.5 23.0 42.6





#45

1,1,2-Trichloroethane

Concen: 49.938 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 111058

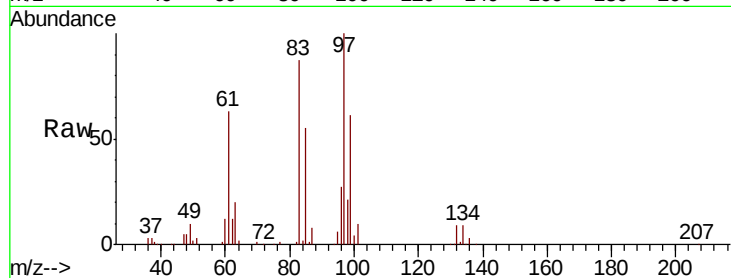
Ion Ratio Lower Upper

97 100

99 61.4 41.6 77.2

83 86.8 59.0 109.6

85 54.8 37.9 70.5



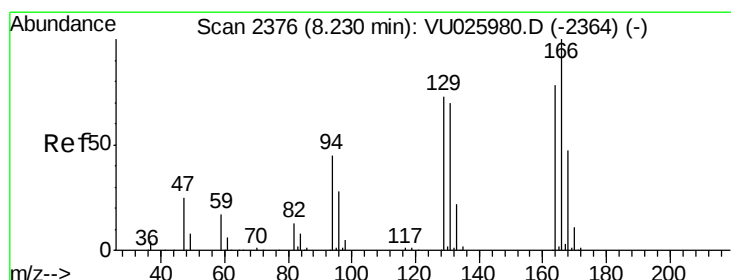
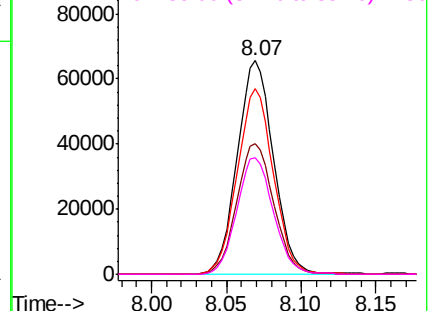
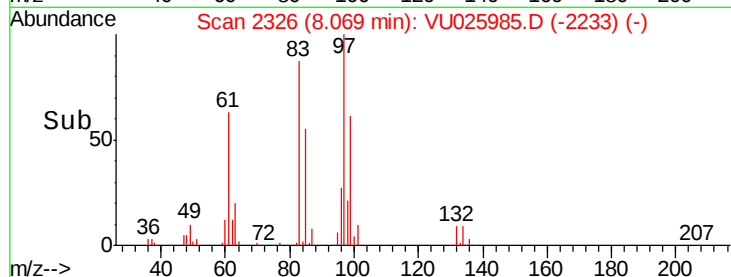
Abundance

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: 51.640 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. 0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

Tgt Ion: 164 Resp: 97876

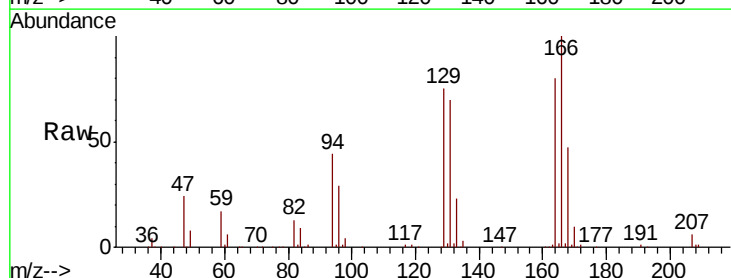
Ion Ratio Lower Upper

164 100

129 93.7 64.8 120.3

131 88.0 62.8 116.6

166 125.7 89.0 165.4



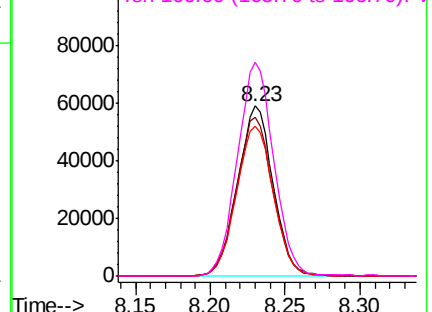
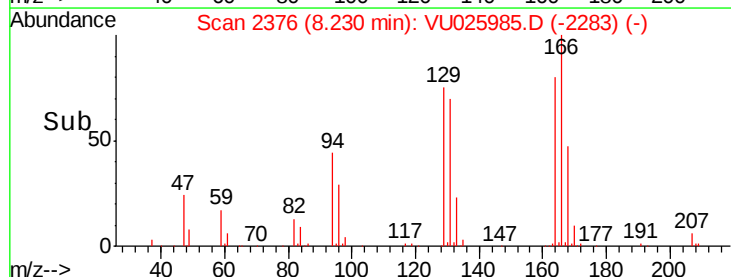
Abundance

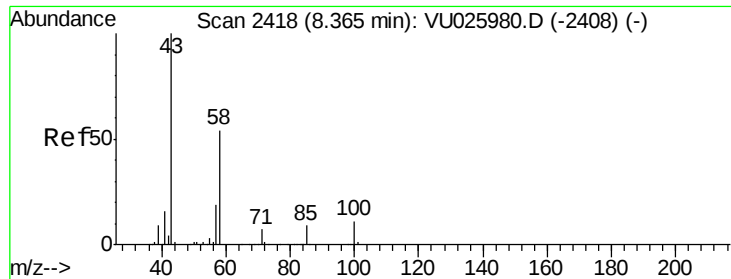
Ion 164.00 (163.70 to 164.70): V

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

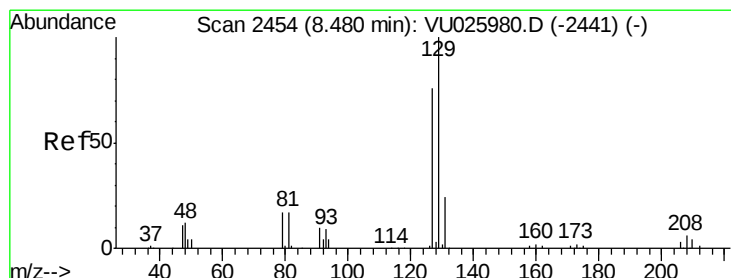
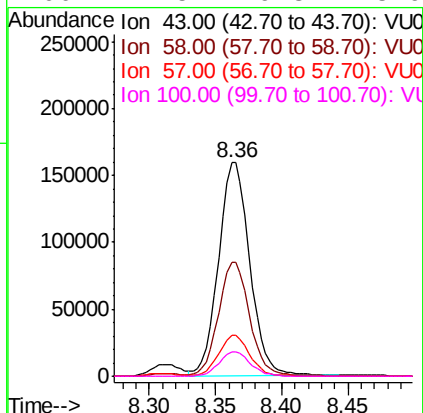
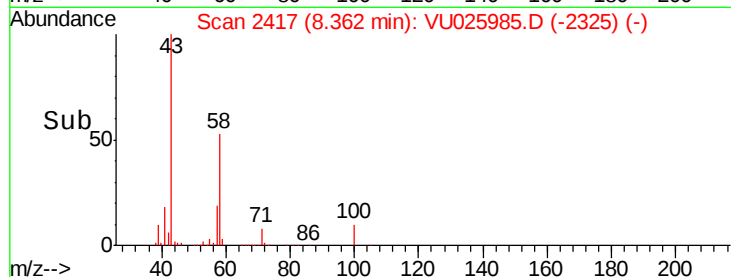
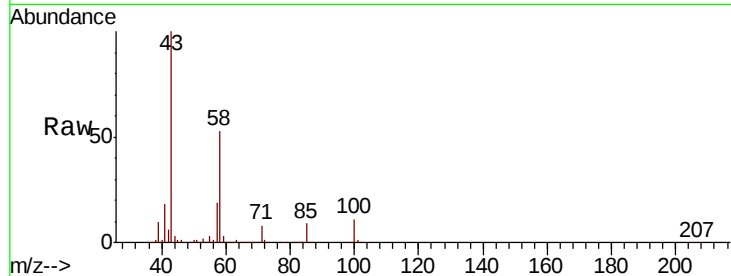




#48
2-Hexanone
Concen: 104.643 ug/L
RT: 8.36 min Scan# 2417
Delta R.T. -0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52

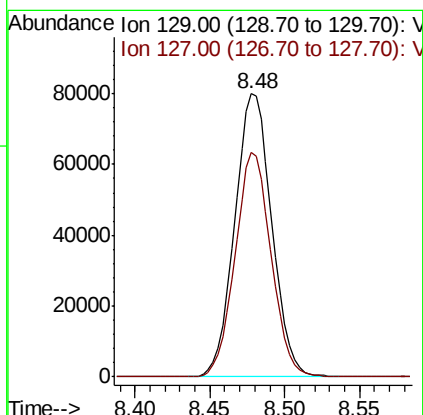
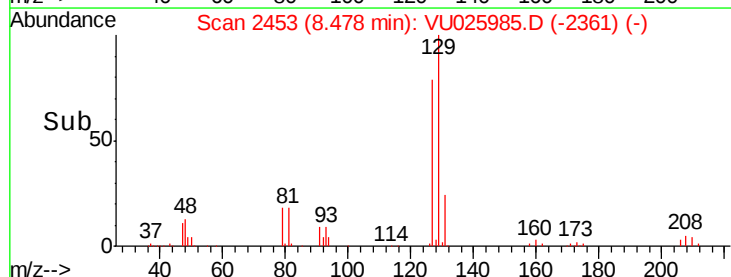
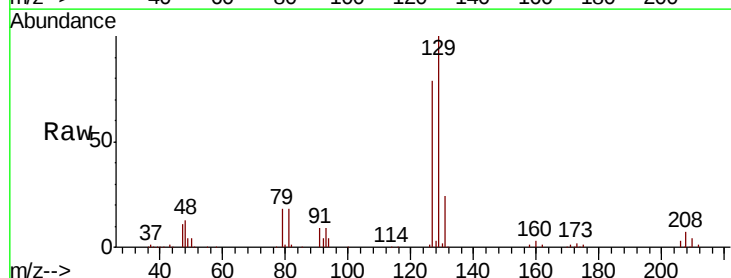
Instrument :
MSVOA_U
ClientSampleId :

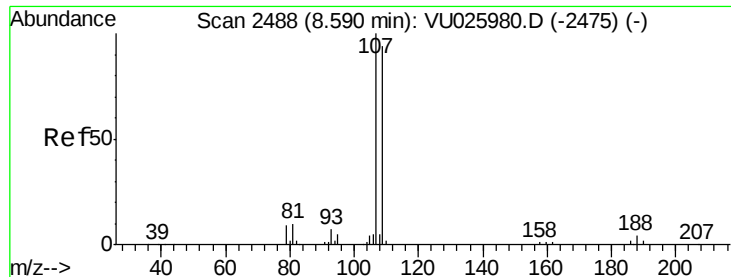
Tot Ion: 43 Resp: 261290
Ion Ratio Lower Upper
43 100
58 53.7 43.6 65.4
57 19.3 15.1 22.7
100 11.5 9.3 13.9



#49
Dibromochloromethane
Concen: 51.252 ug/L
RT: 8.48 min Scan# 2453
Delta R.T. -0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52

Tgt Ion: 129 Resp: 137445
Ion Ratio Lower Upper
129 100
127 79.4 53.5 99.3

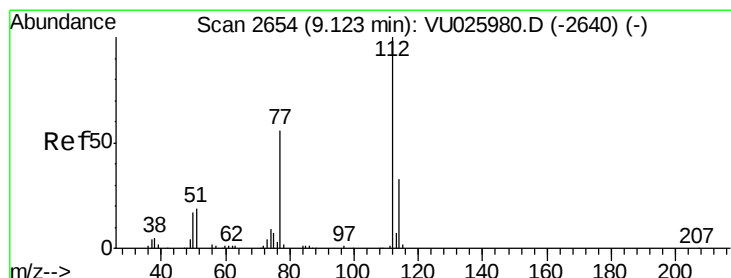
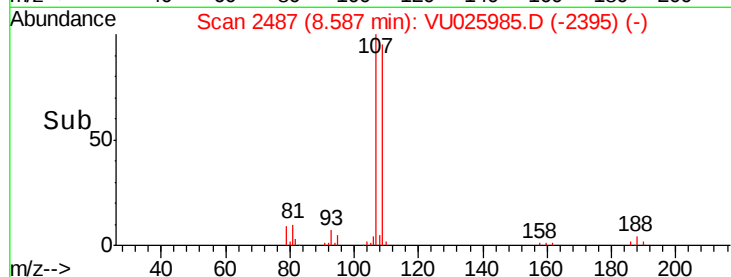
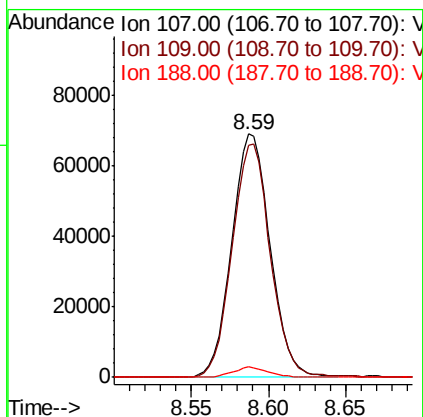
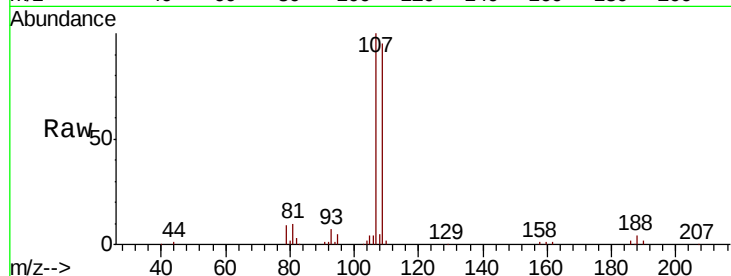




#50
1,2-Dibromoethane
Concen: 49.273 ug/L
RT: 8.59 min Scan# 2487
Delta R.T. -0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52

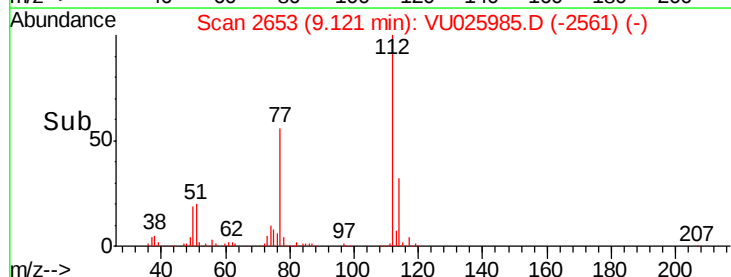
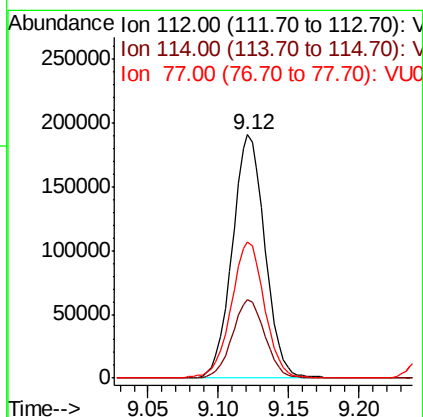
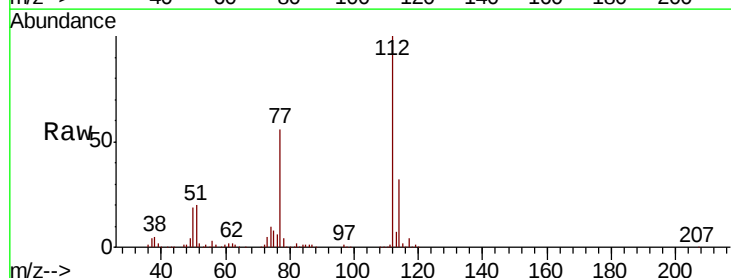
Instrument :
MSVOA_U
ClientSampleId :

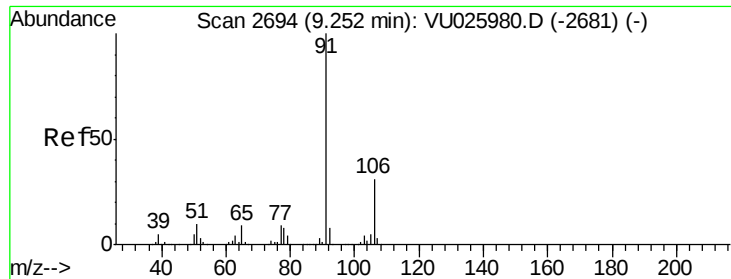
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.2	66.1	122.7
188	4.1	2.9	4.3



#51
Chlorobenzene
Concen: 50.710 ug/L
RT: 9.12 min Scan# 2653
Delta R.T. -0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.7	42.3
77	56.2	45.2	67.8

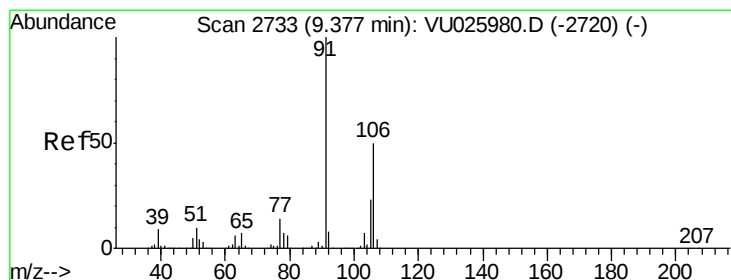
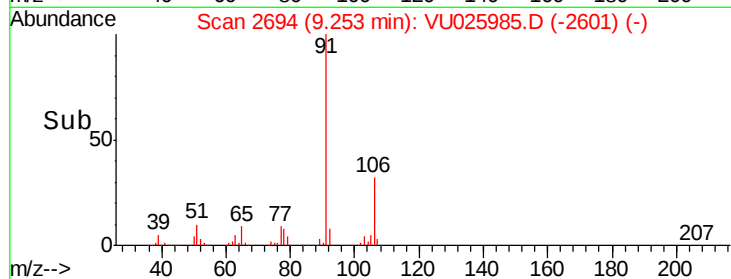
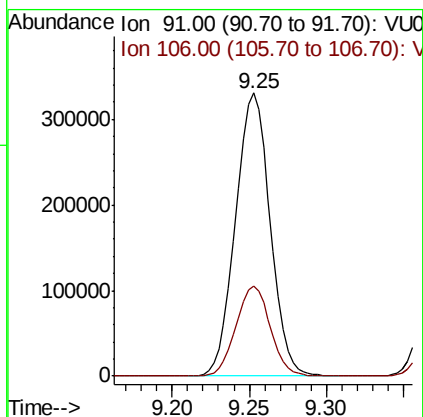
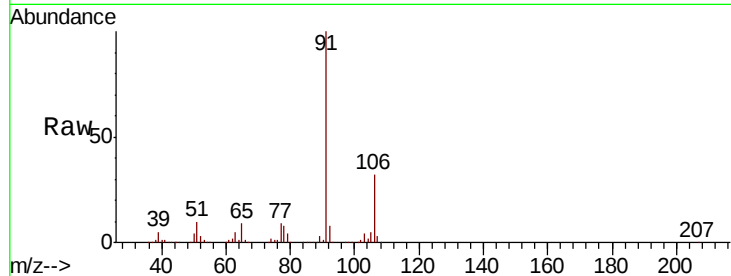




#52
Ethylbenzene
Concen: 52.002 ug/L
RT: 9.25 min Scan# 2694
Delta R.T. 0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52

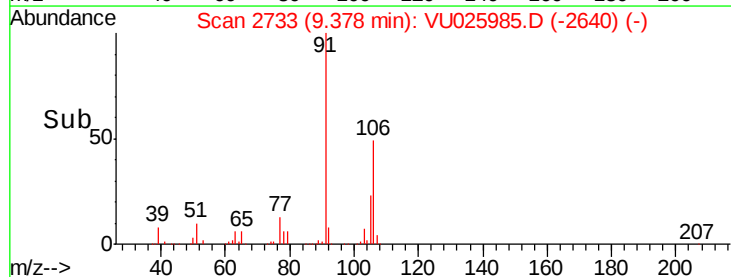
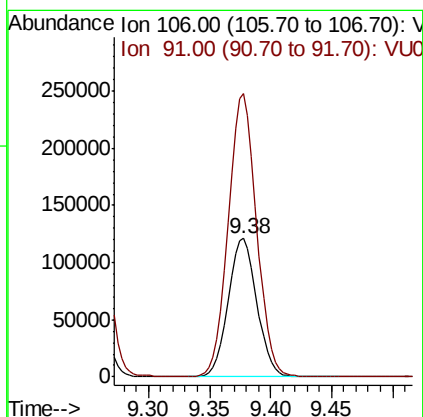
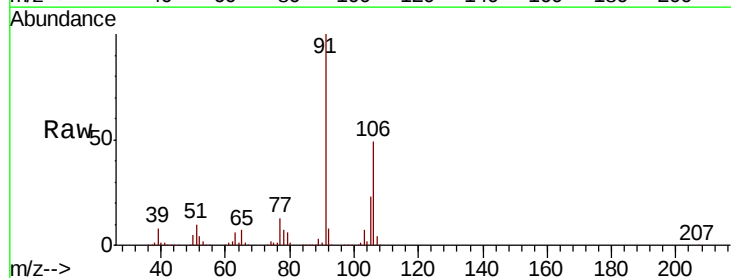
Instrument :
MSVOA_U
ClientSampled :

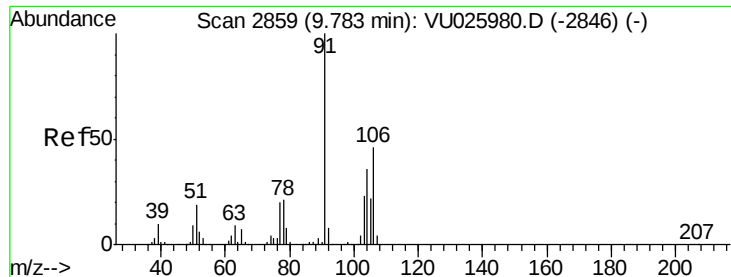
Tot Ion: 91 Resp: 514906
Ion Ratio Lower Upper
91 100
106 32.0 22.0 41.0



#53
m,p-Xylene
Concen: 52.735 ug/L
RT: 9.38 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU025985.D
Acq: 09 Aug 2018 09:52

Tgt Ion: 106 Resp: 199525
Ion Ratio Lower Upper
106 100
91 204.4 141.3 262.5





#54

o-xylene

Concen: 52.366 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

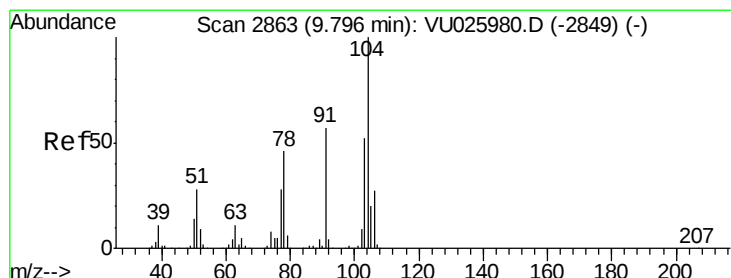
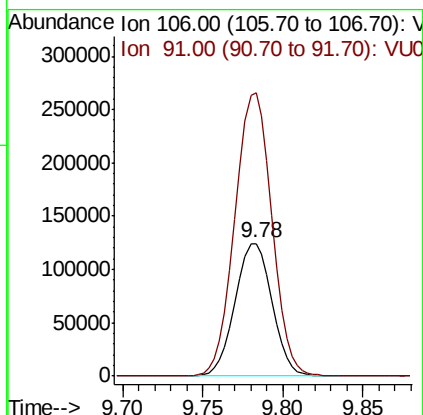
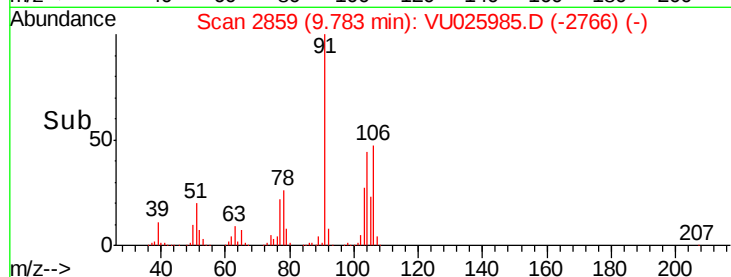
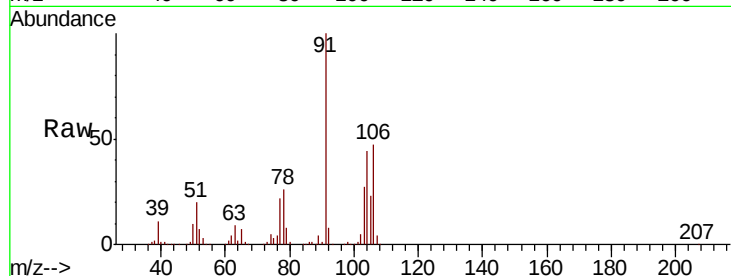
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 196638

Ion Ratio Lower Upper

106 100

91 212.9 151.2 280.8



#55

Styrene

Concen: 53.889 ug/L

RT: 9.79 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VU025985.D

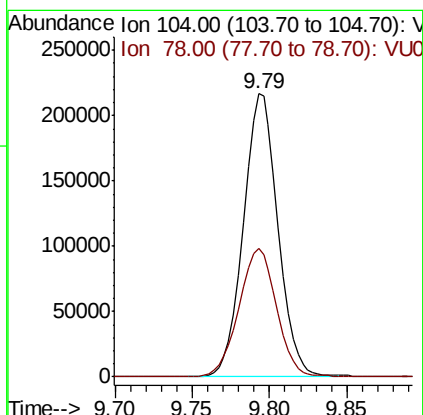
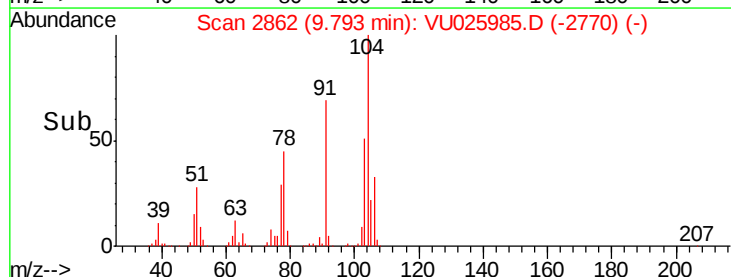
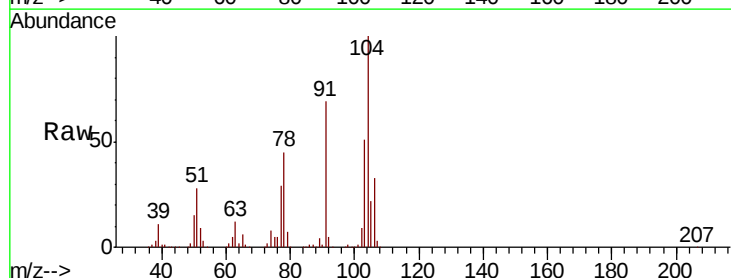
Acq: 09 Aug 2018 09:52

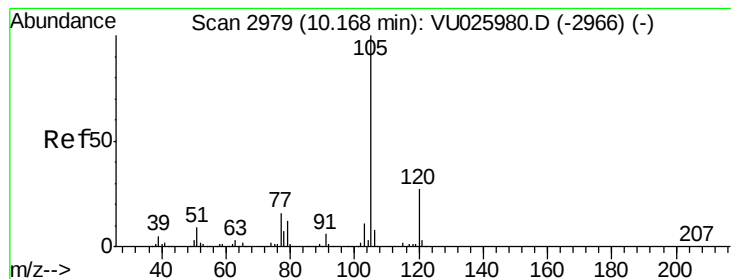
Tgt Ion:104 Resp: 336906

Ion Ratio Lower Upper

104 100

78 45.3 32.1 59.5





#56

Isopropylbenzene

Concen: 53.542 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

Instrument :

MSVOA_U

ClientSampled :

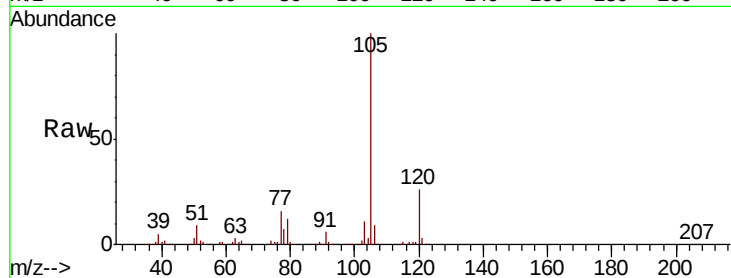
Tot Ion:105 Resp: 517958

Ion Ratio Lower Upper

105 100

120 26.5 21.7 32.5

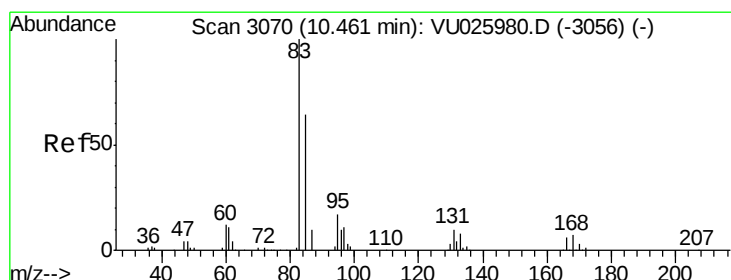
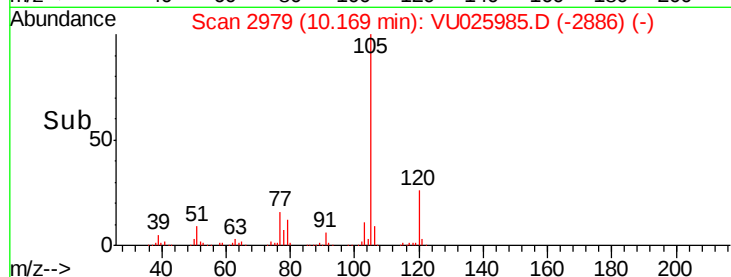
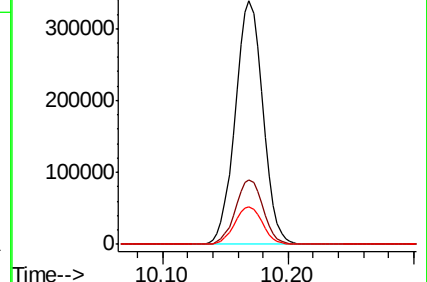
77 15.6 12.6 18.8



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: 48.899 ug/L

RT: 10.46 min Scan# 3069

Delta R.T. -0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

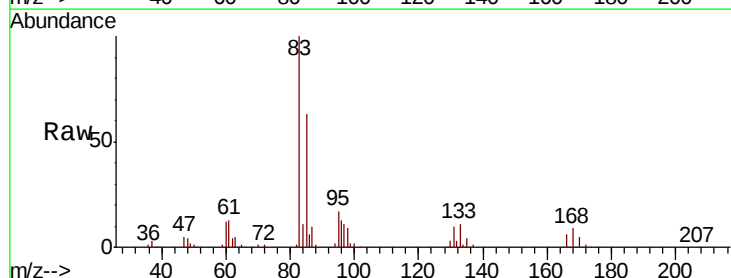
Tgt Ion: 83 Resp: 184823

Ion Ratio Lower Upper

83 100

85 62.7 45.0 83.6

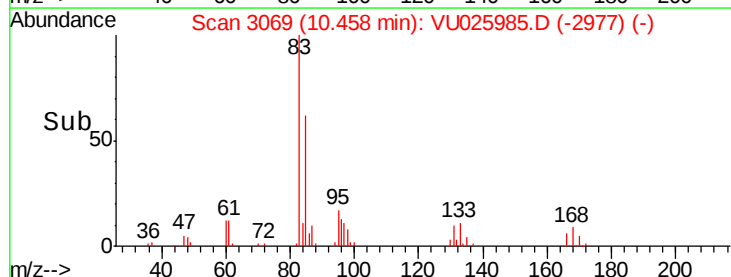
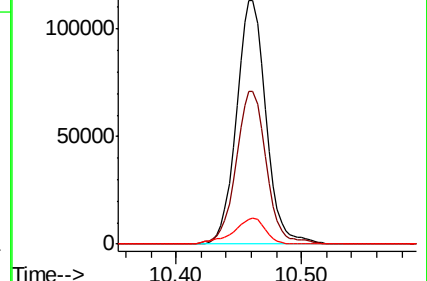
131 10.0 8.6 12.8

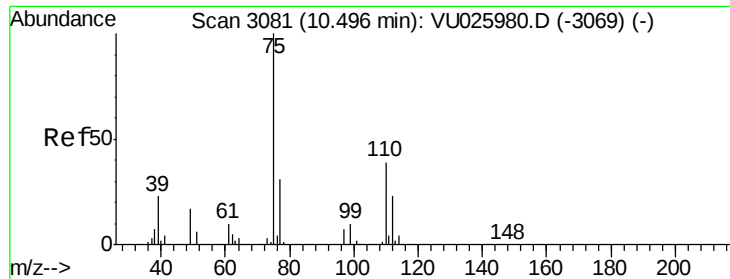


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

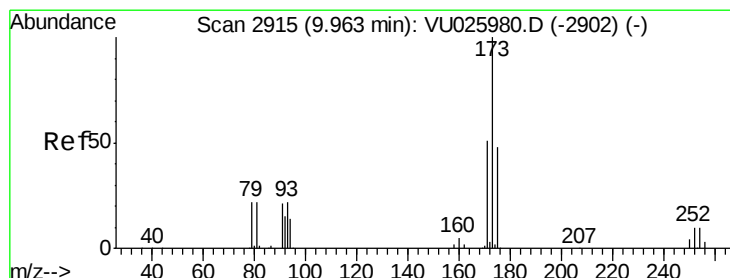
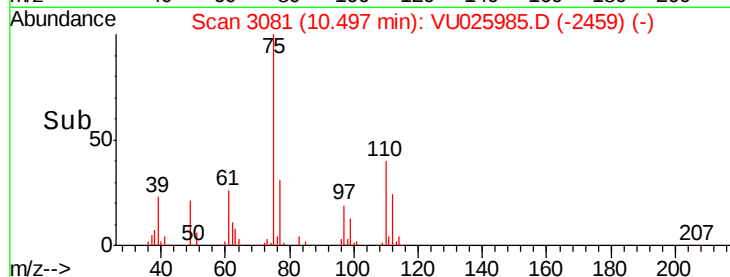
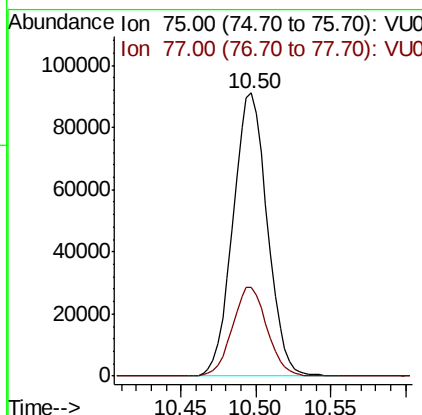
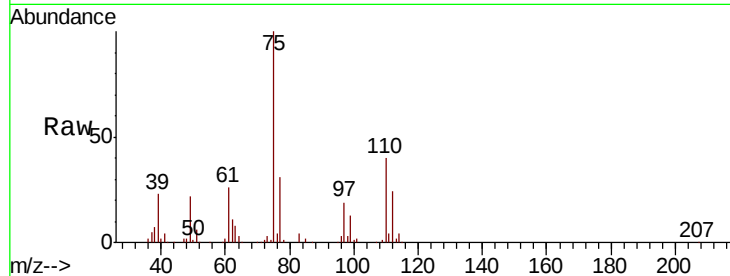




#59
 1,2,3-Trichloropropane
 Concen: 48.323 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU025985.D
 Acq: 09 Aug 2018 09:52

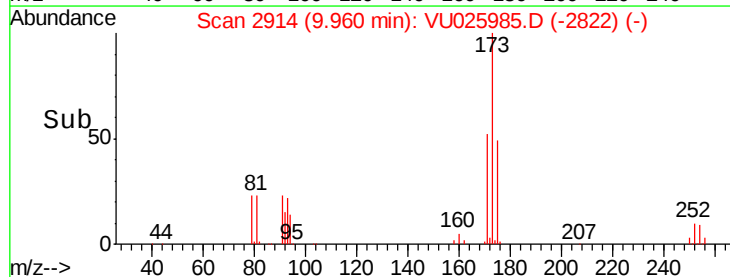
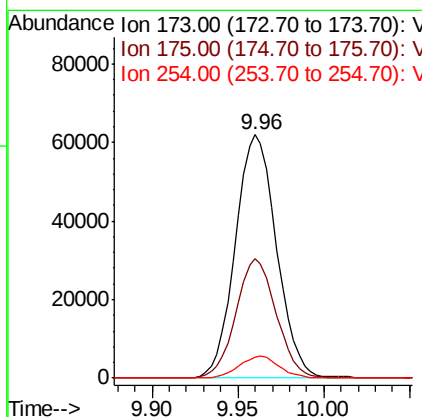
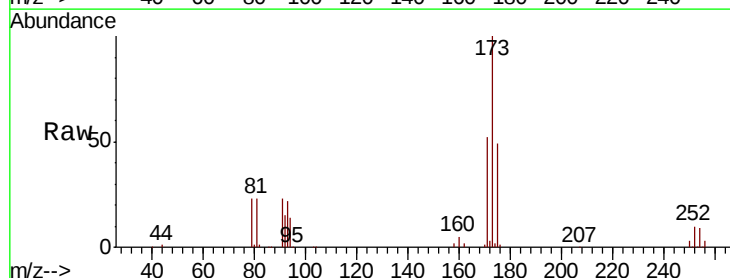
Instrument :
 MSVOA_U
 ClientSampleId :

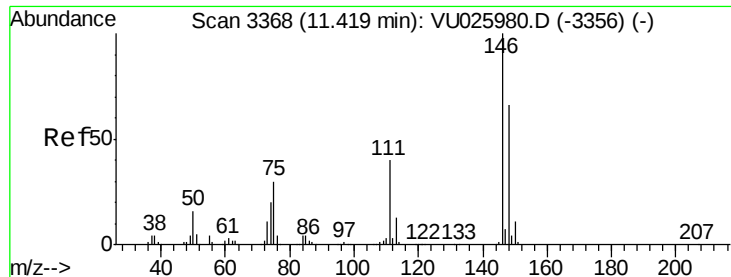
Tot Ion: 75 Resp: 145380
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.3 37.9



#61
 Bromoform
 Concen: 49.156 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. -0.00 min
 Lab File: VU025985.D
 Acq: 09 Aug 2018 09:52

Tgt Ion: 173 Resp: 103245
 Ion Ratio Lower Upper
 173 100
 175 48.1 38.9 58.3
 254 8.9 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 50.251 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

Instrument :

MSVOA_U

ClientSampleId :

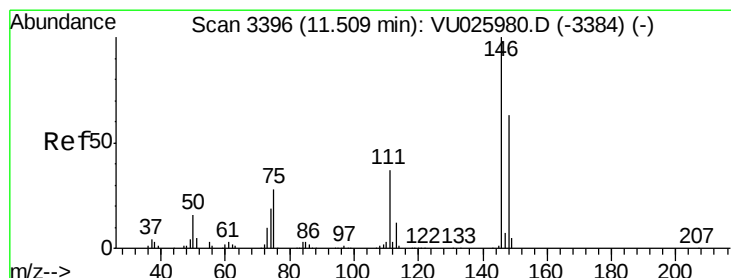
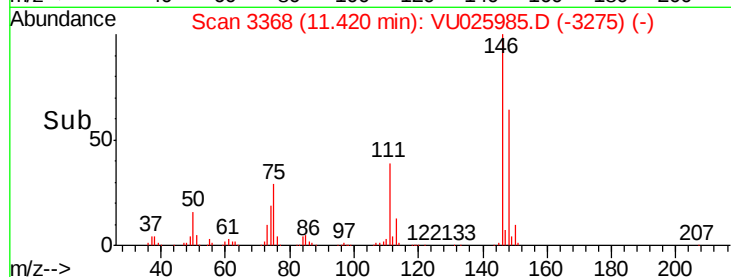
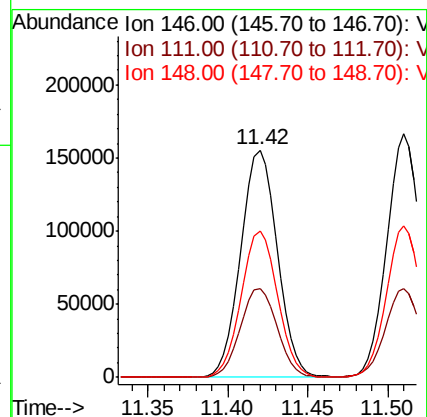
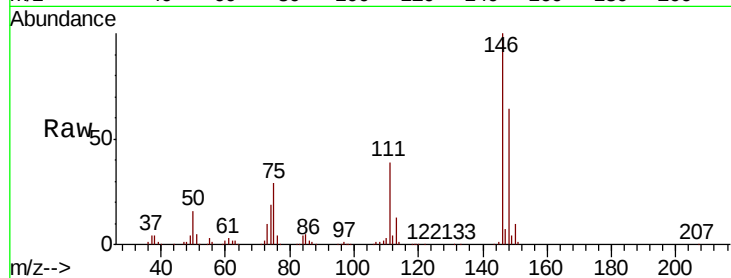
Tot Ion:146 Resp: 242680

Ion Ratio Lower Upper

146 100

111 39.1 27.9 51.9

148 64.3 46.0 85.4



#63

1,4-Dichlorobenzene

Concen: 49.636 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

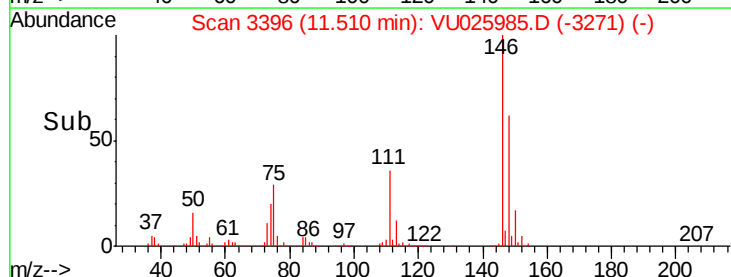
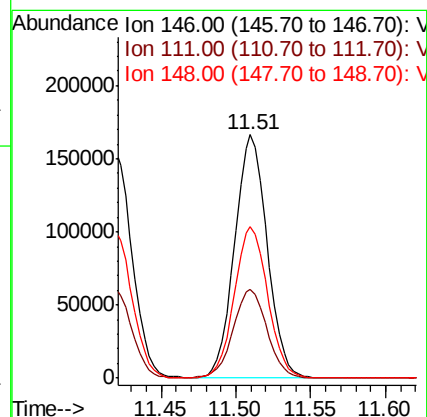
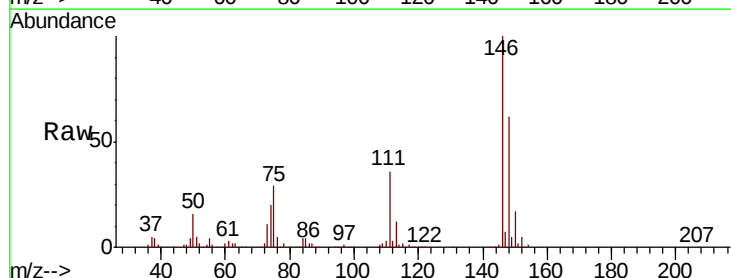
Tgt Ion:146 Resp: 251287

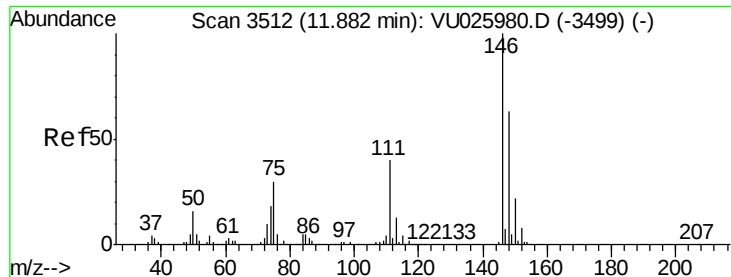
Ion Ratio Lower Upper

146 100

111 36.4 26.4 49.0

148 62.3 43.8 81.4

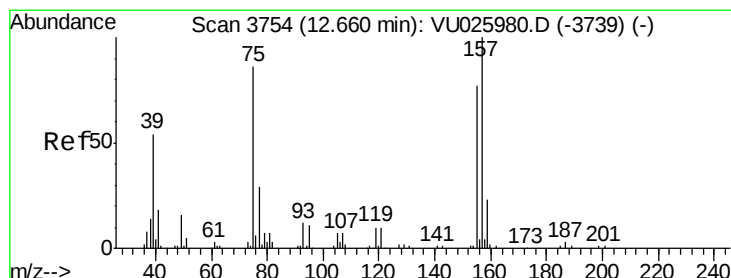
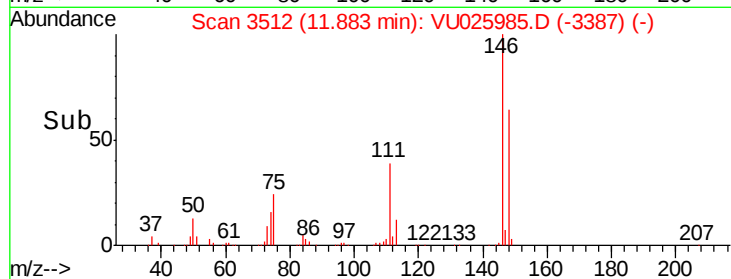
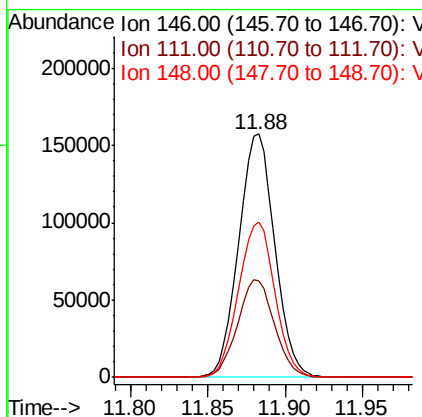
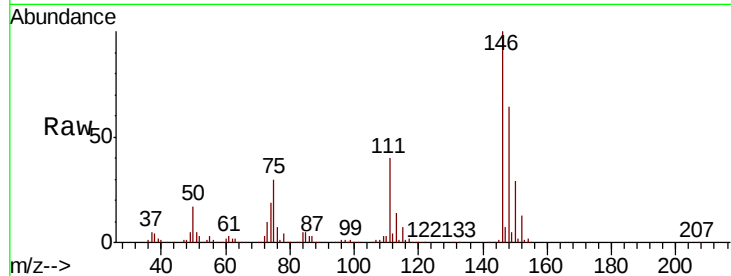




#65
 1,2-Dichlorobenzene
 Concen: 49.692 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025985.D
 Acq: 09 Aug 2018 09:52

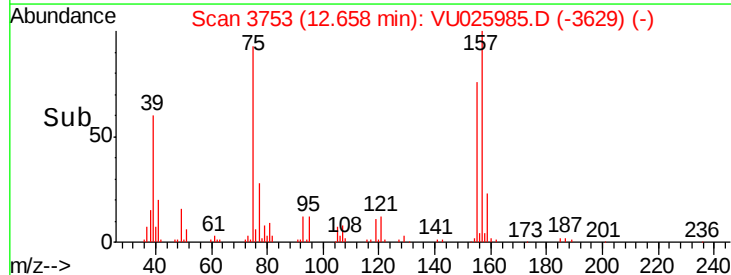
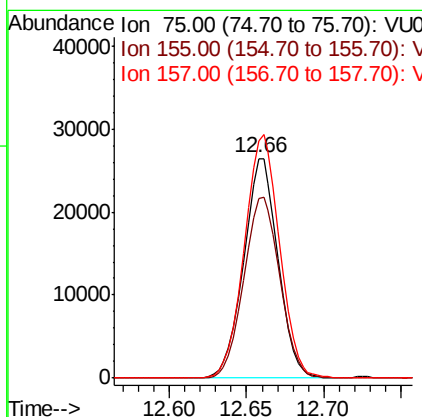
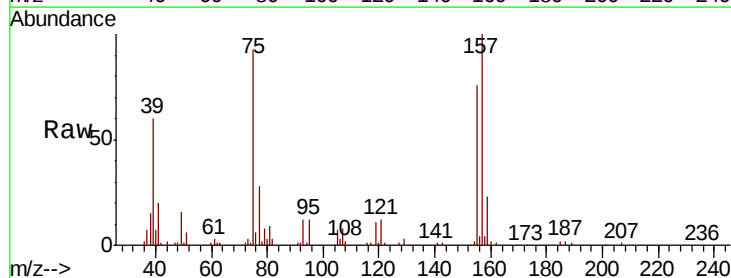
Instrument :
 MSVOA_U
 ClientSampleId :

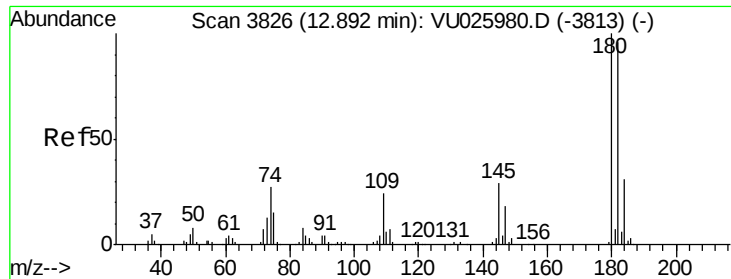
Tot Ion:146 Resp: 255439
 Ion Ratio Lower Upper
 146 100
 111 39.7 32.4 48.6
 148 63.7 50.1 75.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 45.348 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. -0.00 min
 Lab File: VU025985.D
 Acq: 09 Aug 2018 09:52

Tgt Ion: 75 Resp: 40914
 Ion Ratio Lower Upper
 75 100
 155 81.5 71.8 107.8
 157 107.9 93.0 139.6

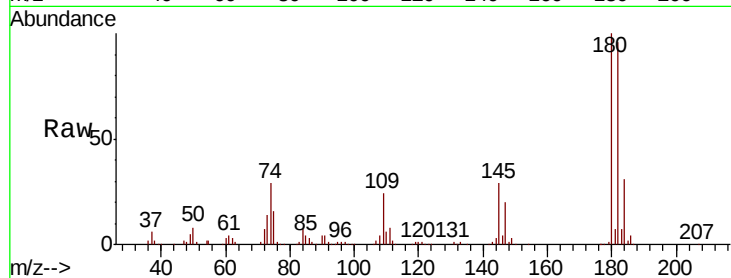




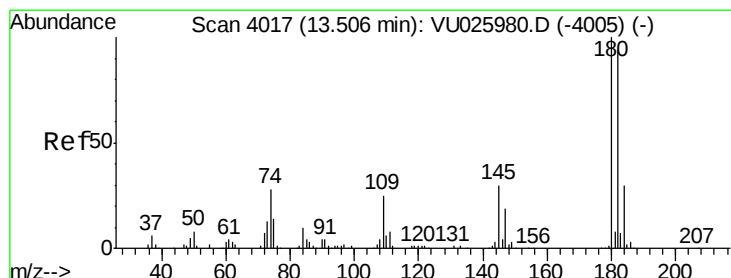
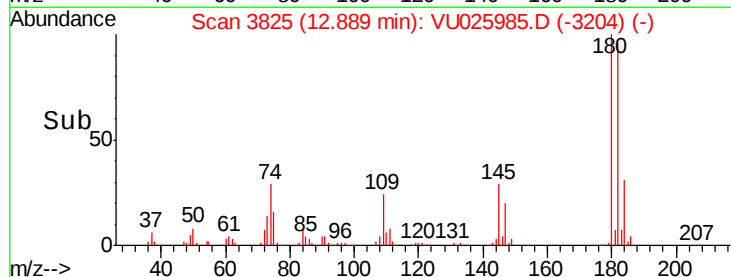
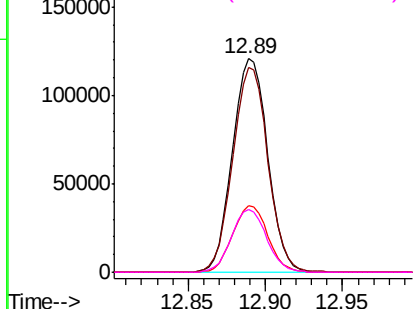
#67
 1,3,5-Trichlorobenzene
 Concen: 52.886 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU025985.D
 Acq: 09 Aug 2018 09:52

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	190885
Ion Ratio	Lower	Upper
180	100	
182	95.6	76.5 114.7
184	31.0	24.3 36.5
145	29.1	23.5 35.3

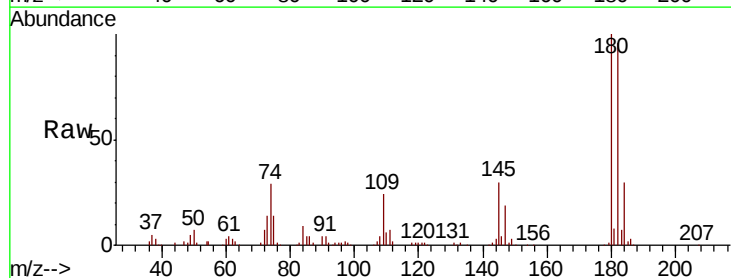


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

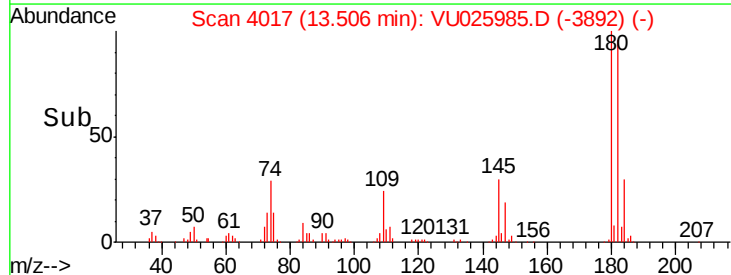
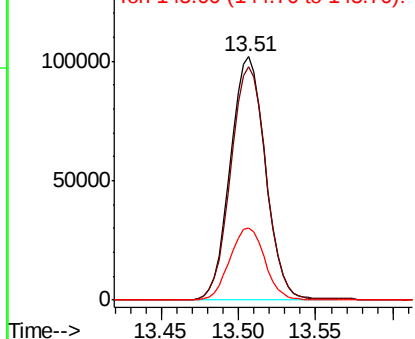


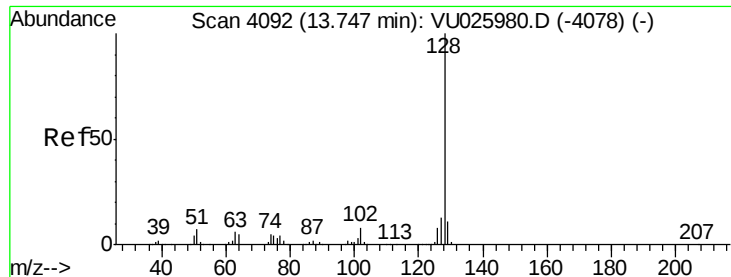
#68
 1,2,4-trichlorobenzene
 Concen: 52.734 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025985.D
 Acq: 09 Aug 2018 09:52

Tgt Ion:180	Resp:	160958
Ion Ratio	Lower	Upper
180	100	
182	96.4	76.5 114.7
145	29.5	24.2 36.4



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: 49.868 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. -0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

Instrument :

MSVOA_U

ClientSampleId :

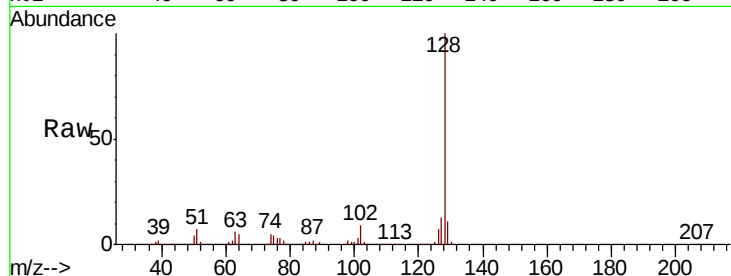
Tot Ion:128 Resp: 491044

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

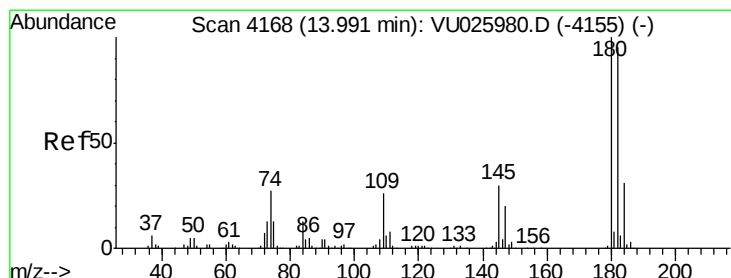
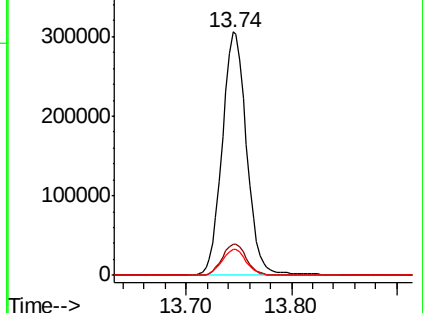
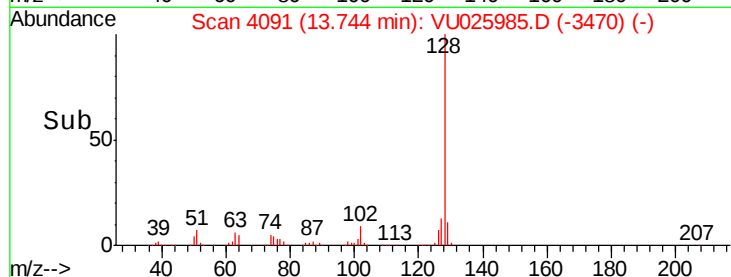
129 10.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 51.656 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025985.D

Acq: 09 Aug 2018 09:52

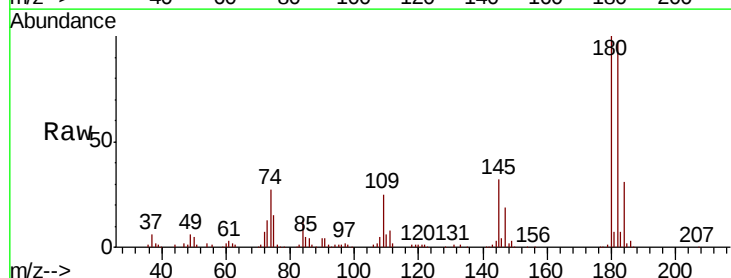
Tgt Ion:180 Resp: 169460

Ion Ratio Lower Upper

180 100

182 96.3 76.5 114.7

145 31.6 24.7 37.1



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

