

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031119\
 Data File : VU029938.D
 Acq On : 09 Mar 2019 22:17
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 58 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

Quant Time: Mar 11 02:27:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 11 02:20:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	553657	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	542756	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	284444	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	164215	48.61	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.22%
7) Chloroethane-d5	1.68	69	137097	48.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.56%
11) 1,1-Dichloroethene-d2	2.27	63	305596	47.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.98%
21) 2-Butanone-d5	4.17	46	270322	103.29	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.29%
24) Chloroform-d	4.64	84	324940	49.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.86%
26) 1,2-Dichloroethane-d4	5.31	65	189275	49.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.28%
32) Benzene-d6	5.34	84	683330	50.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.04%
36) 1,2-Dichloropropane-d6	6.33	67	204047	49.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.90%
41) Toluene-d8	7.56	98	648949	50.00	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.00%
43) trans-1,3-Dichloropropene-	7.85	79	92995	47.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.08%
47) 2-Hexanone-d5	8.31	63	223245	101.56	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.56%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	324039	50.24	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.48%
64) 1,2-Dichlorobenzene-d4	11.85	152	274390	49.18	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.36%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	213539	50.058	ug/L 100
3) Chloromethane	1.33	50	274576	49.131	ug/L 100
5) Vinyl chloride	1.40	62	221759	51.221	ug/L 99
6) Bromomethane	1.62	94	74747	65.121	ug/L 98
8) Chloroethane	1.69	64	132128	49.896	ug/L 97
9) Trichlorofluoromethane	1.88	101	283382	49.426	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	173634	49.207	ug/L 99
12) 1,1-Dichloroethene	2.28	96	169785	49.581	ug/L 95
13) Acetone	2.32	43	184652	64.681	ug/L 100
14) Carbon disulfide	2.47	76	514995	48.254	ug/L 99
15) Methyl Acetate	2.61	43	208927	53.009	ug/L 98
16) Methylene chloride	2.70	84	200605	49.965	ug/L 99
17) trans-1,2-Dichloroethene	2.98	96	183796	50.627	ug/L 98
18) Methyl tert-butyl Ether	3.00	73	491721	54.110	ug/L 100
19) 1,1-Dichloroethane	3.44	63	319071	50.970	ug/L 99
20) cis-1,2-Dichloroethene	4.22	96	210320	50.772	ug/L 100
22) 2-Butanone	4.26	43	289570	88.609	ug/L 99

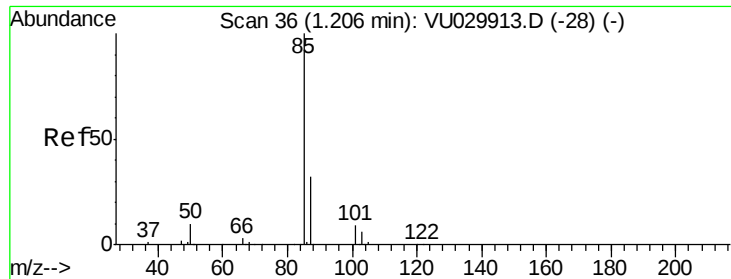
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031119\
 Data File : VU029938.D
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 Quant Title : VOC Analysis
 QLast Update : Mon Mar 11 02:20:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	108161	51.941	ug/L	98
25) Chloroform	4.67	83	333988	49.581	ug/L	100
27) 1,2-Dichloroethane	5.40	62	241791	50.469	ug/L	99
29) Cyclohexane	4.99	56	281881	50.720	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	280316	51.274	ug/L	100
31) Carbon tetrachloride	5.13	117	233010	48.268	ug/L	100
33) Benzene	5.39	78	747950	51.587	ug/L	100
34) Trichloroethene	6.18	95	193184	49.439	ug/L	99
35) Methylcyclohexane	6.41	83	307520	49.320	ug/L	98
37) 1,2-Dichloropropane	6.43	63	194823	51.563	ug/L	100
38) Bromodichloromethane	6.75	83	235941	49.881	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	282709	49.165	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	534497	106.090	ug/L	100
42) Toluene	7.63	91	826652	52.158	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	253811	49.544	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	194280	50.654	ug/L	99
46) Tetrachloroethene	8.22	164	164960	49.018	ug/L	97
48) 2-Hexanone	8.36	43	428759	100.669	ug/L	99
49) Dibromochloromethane	8.47	129	205528	48.959	ug/L	100
50) 1,2-Dibromoethane	8.58	107	210351	50.886	ug/L	100
51) Chlorobenzene	9.12	112	541593	50.491	ug/L	99
52) Ethylbenzene	9.25	91	911370	51.988	ug/L	100
53) m,p-Xylene	9.37	106	348869	51.984	ug/L	99
54) o-xylene	9.78	106	349235	52.268	ug/L	100
55) Styrene	9.79	104	567072	52.314	ug/L	100
56) Isopropylbenzene	10.16	105	894676	51.705	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	337751	50.854	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	254568	50.828	ug/L	100
61) Bromoform	9.95	173	163102	49.247	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	434542	49.971	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	437313	49.111	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	445744	50.252	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	68651	49.383	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	326809	49.517	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	287604	48.846	ug/L	100
69) Naphthalene	13.74	128	904741	49.722	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	301526	48.771	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 50.058 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

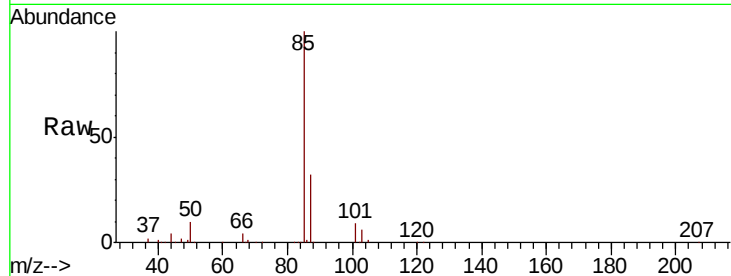
VSTD05055

Tgt Ion: 85 Resp: 213539

Ion Ratio Lower Upper

85 100

87 32.1 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU029938.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU029938.D (-1) (-)

1.20

200000

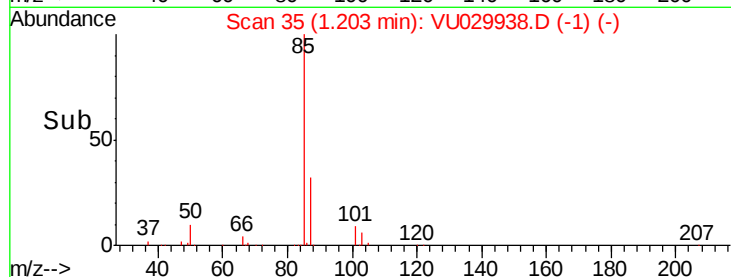
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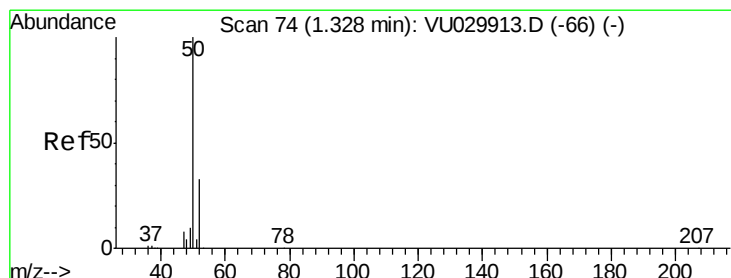
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: 49.131 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029938.D

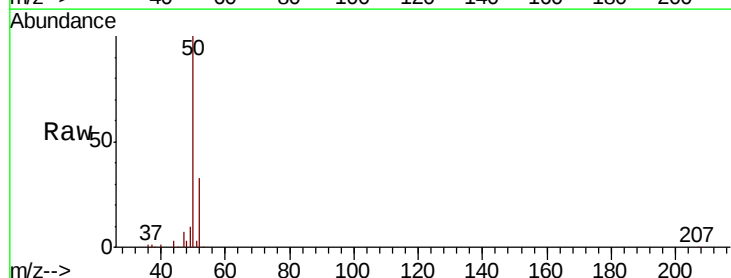
Acq: 09 Mar 2019 22:17

Tgt Ion: 50 Resp: 274576

Ion Ratio Lower Upper

50 100

52 32.9 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU029938.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU029938.D (-1) (-)

1.33

300000

250000

200000

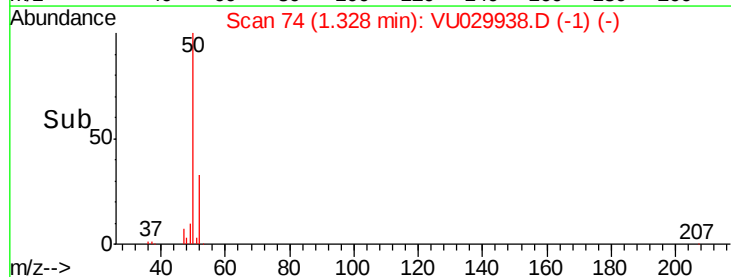
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100000

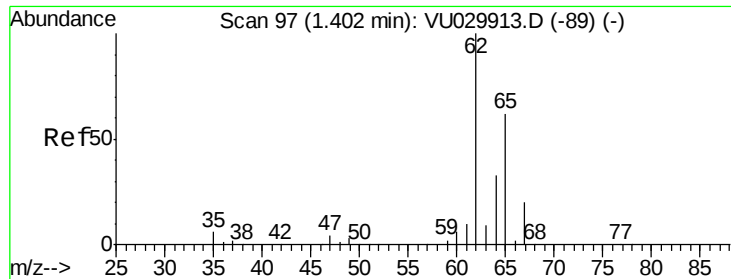
50000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 51.221 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

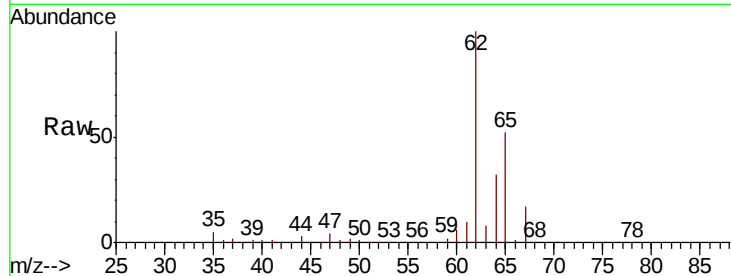
VSTD05055

Tgt Ion: 62 Resp: 221759

Ion Ratio Lower Upper

62 100

64 32.5 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

250000

200000

150000

100000

50000

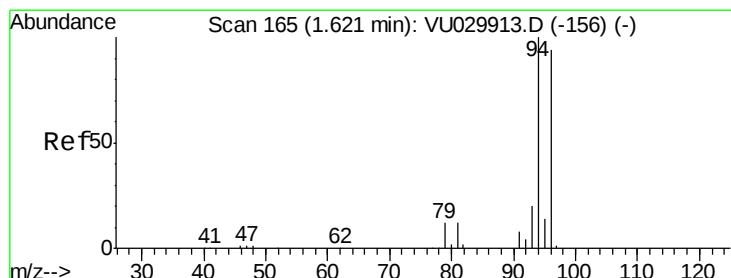
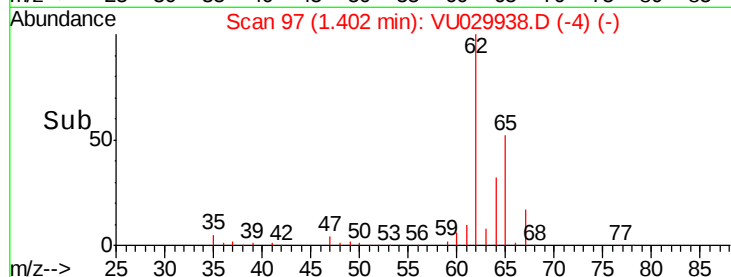
0

1.35

1.40

1.45

Time-->



#6

Bromomethane

Concen: 65.121 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU029938.D

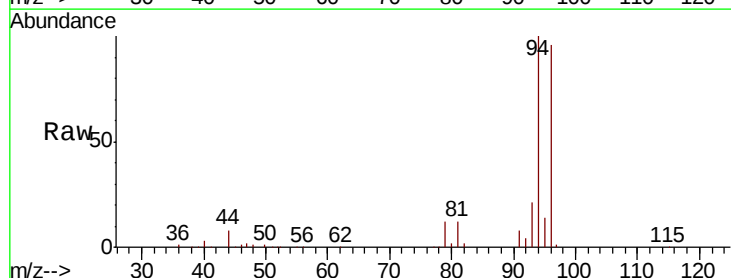
Acq: 09 Mar 2019 22:17

Tgt Ion: 94 Resp: 74747

Ion Ratio Lower Upper

94 100

96 96.1 65.7 121.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

60000

40000

20000

0

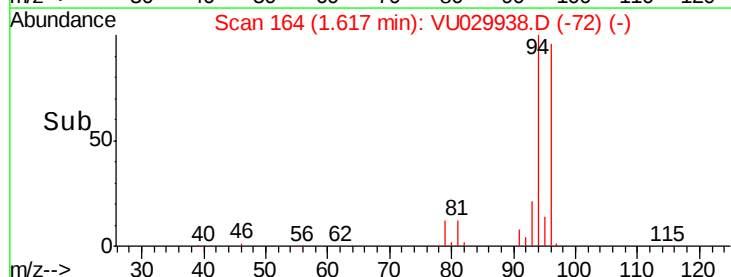
1.55

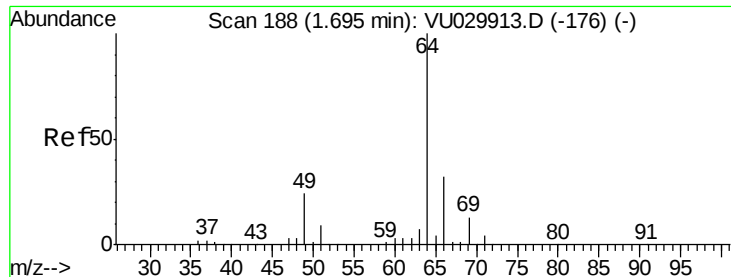
1.60

1.65

1.70

Time-->

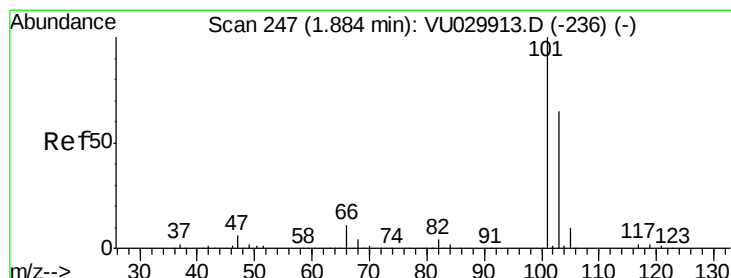
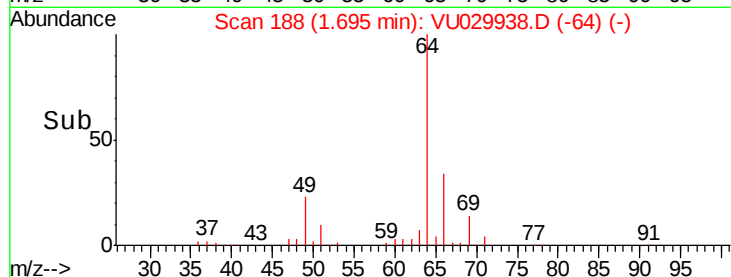
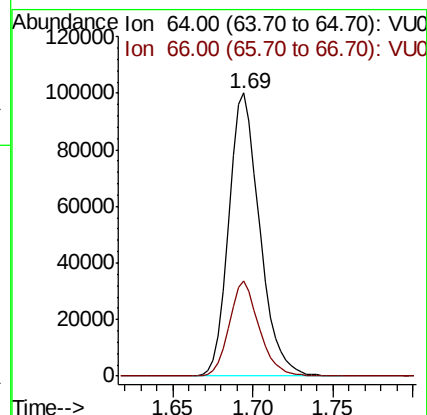
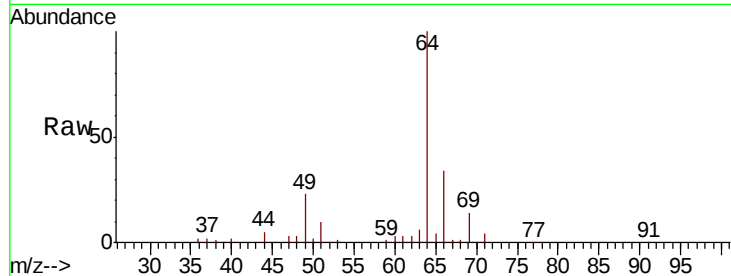




#8
Chloroethane
Concen: 49.896 ug/L
RT: 1.69 min Scan# 188
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

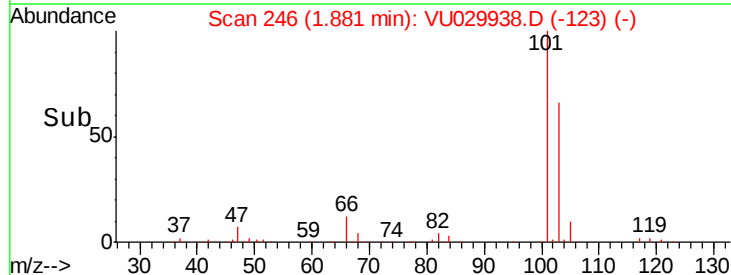
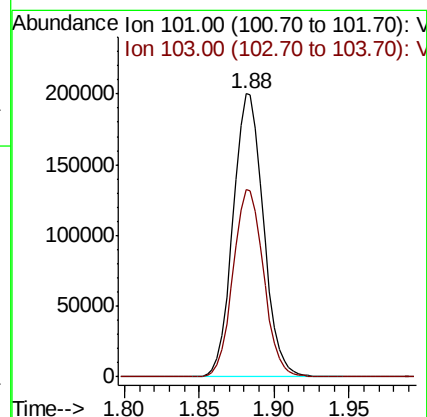
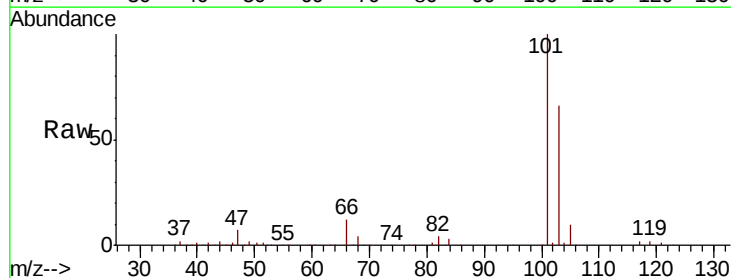
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

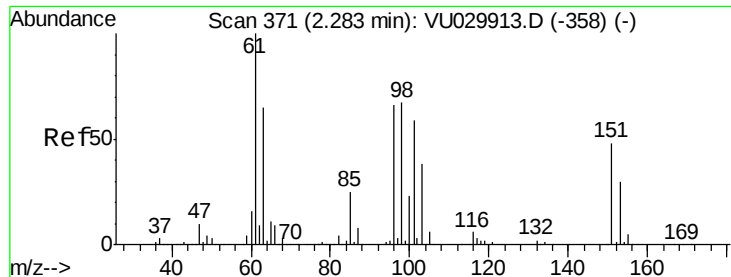
Tgt Ion: 64 Resp: 132128
Ion Ratio Lower Upper
64 100
66 33.7 22.5 41.7



#9
Trichlorofluoromethane
Concen: 49.426 ug/L
RT: 1.88 min Scan# 246
Delta R.T. -0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

Tgt Ion: 101 Resp: 283382
Ion Ratio Lower Upper
101 100
103 66.4 51.4 77.2





#10

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

Concen: 49.207 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

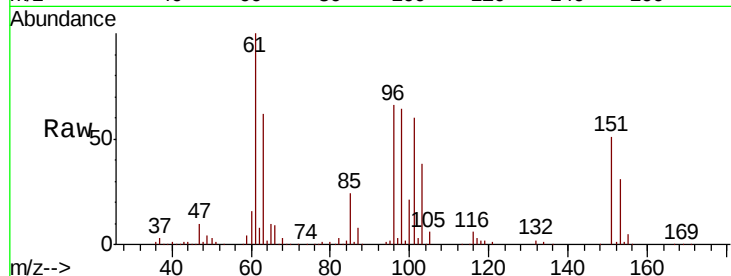
Tgt Ion: 101 Resp: 173634

Ion Ratio Lower Upper

101 100

85 41.3 33.4 50.2

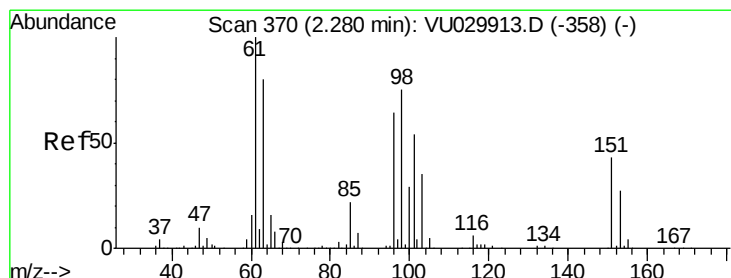
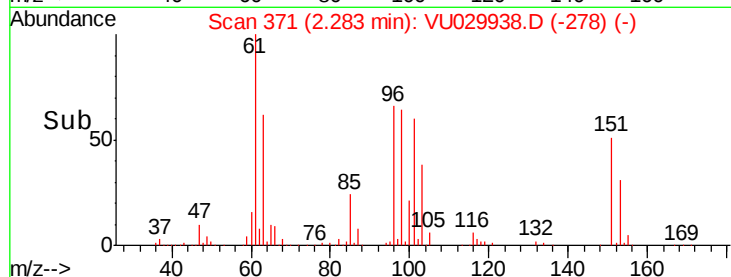
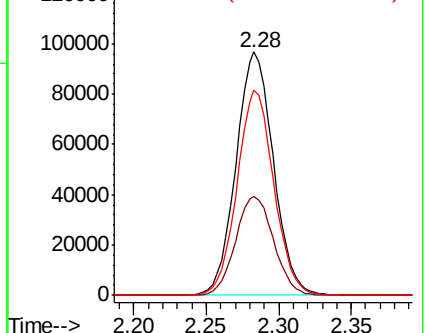
151 82.8 65.8 98.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 49.581 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

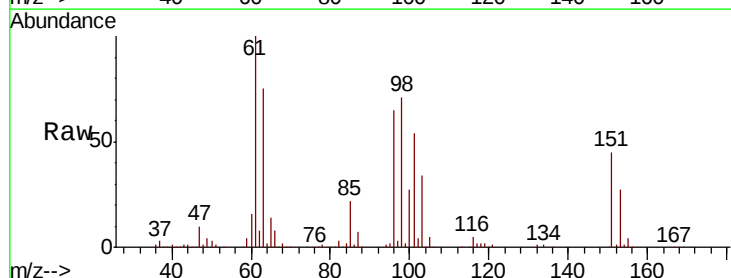
Tgt Ion: 96 Resp: 169785

Ion Ratio Lower Upper

96 100

61 154.4 109.0 202.4

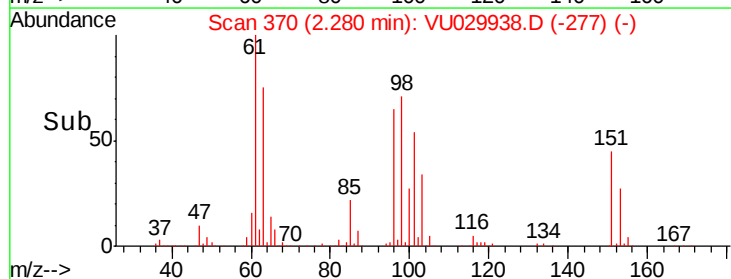
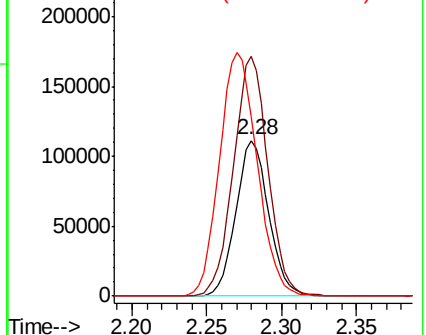
63 115.1 88.1 163.5

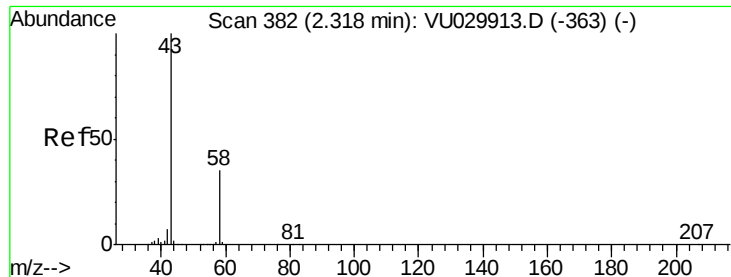


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 64.681 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

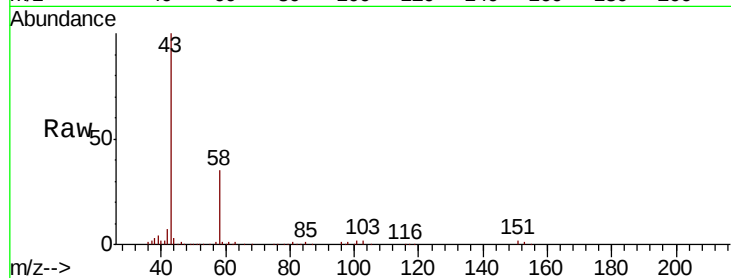
VSTD05055

Tgt Ion: 43 Resp: 184652

Ion Ratio Lower Upper

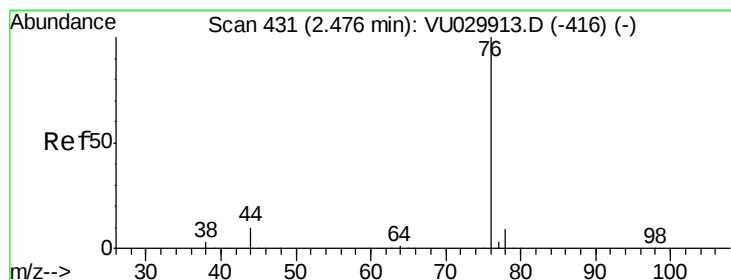
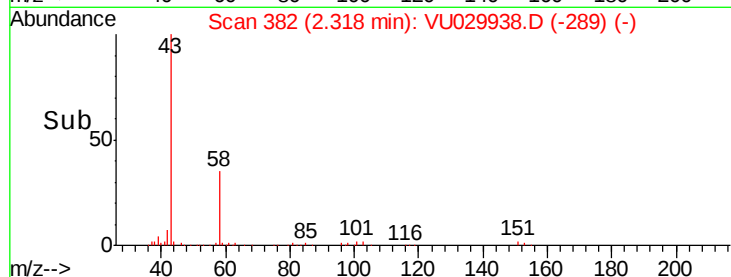
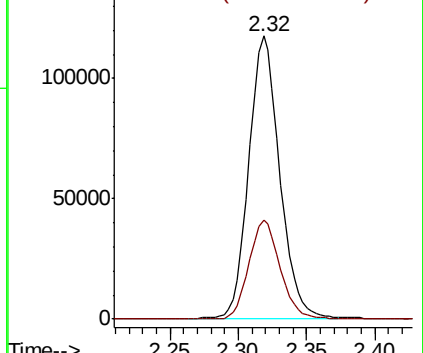
43 100

58 35.3 0.0 70.2



Abundance Ion 43.00 (42.70 to 43.70): VU029913.D (-363) (-)

Ion 58.00 (57.70 to 58.70): VU029913.D (-363) (-)



#14

Carbon disulfide

Concen: 48.254 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU029938.D

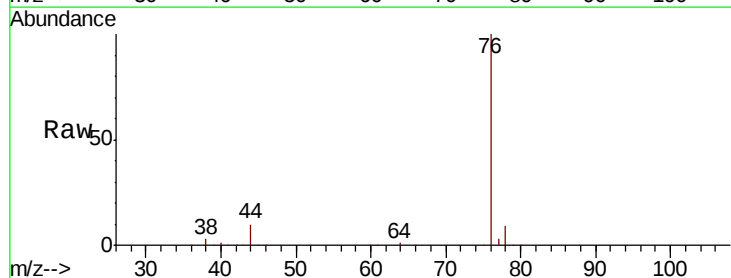
Acq: 09 Mar 2019 22:17

Tgt Ion: 76 Resp: 514995

Ion Ratio Lower Upper

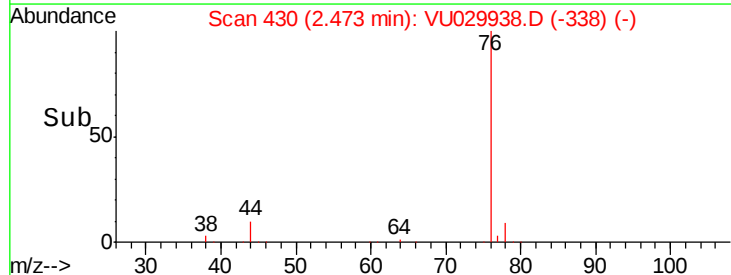
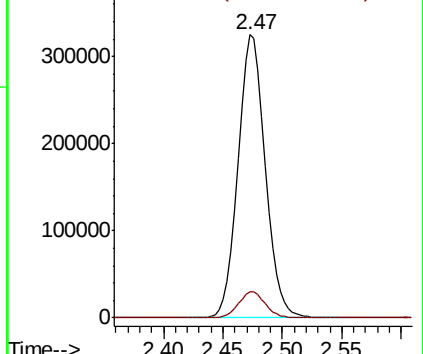
76 100

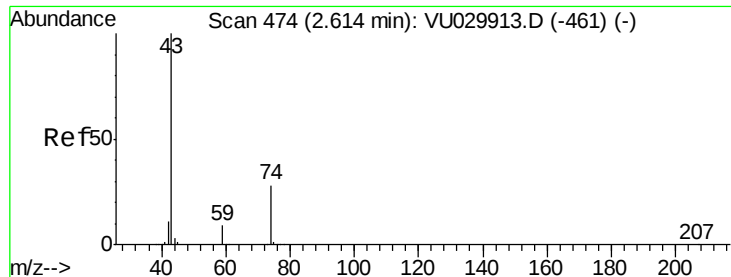
78 9.1 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VU029913.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU029913.D (-416) (-)

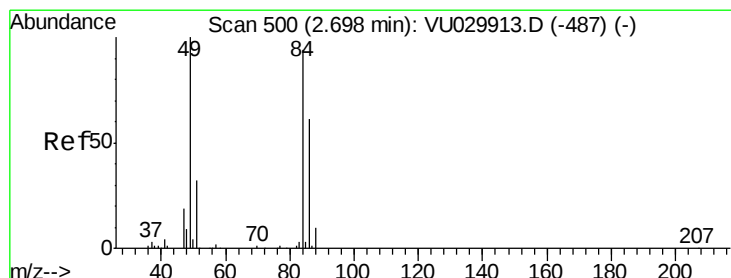
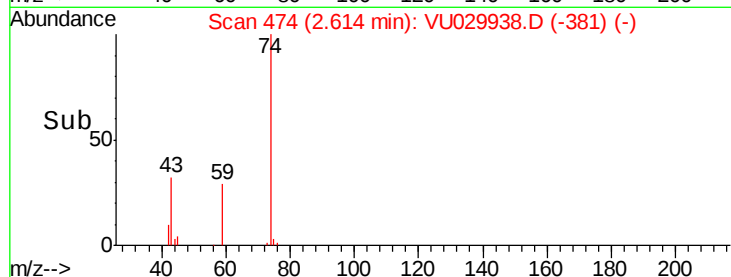
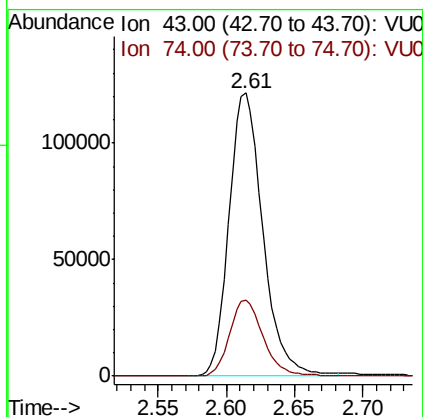
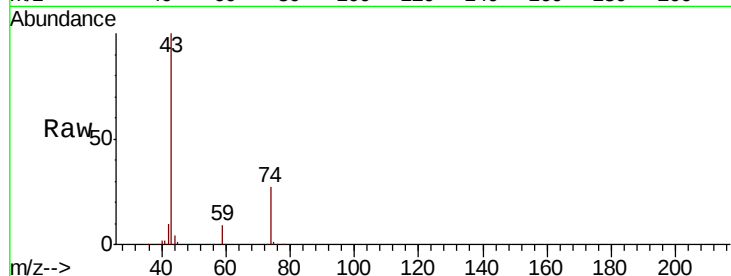




#15
Methyl Acetate
Concen: 53.009 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

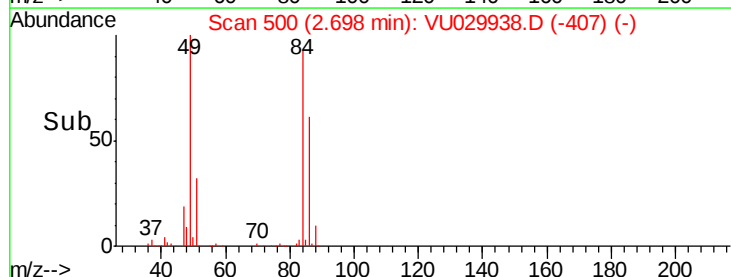
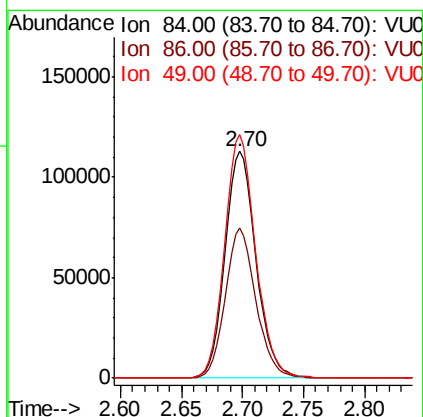
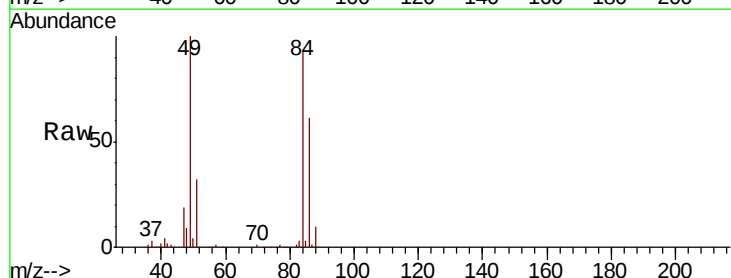
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

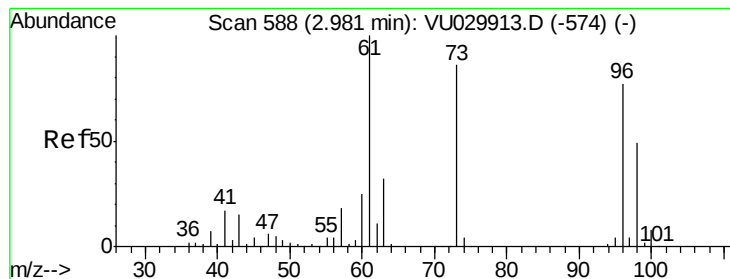
Tgt Ion: 43 Resp: 208927
Ion Ratio Lower Upper
43 100
74 26.8 22.1 33.1



#16
Methylene chloride
Concen: 49.965 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

Tgt Ion: 84 Resp: 200605
Ion Ratio Lower Upper
84 100
86 65.9 45.3 84.1
49 107.3 74.8 139.0





#17

trans-1,2-Dichloroethene

Concen: 50.627 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

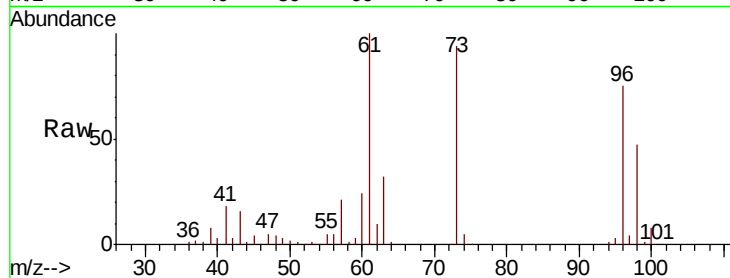
Tgt Ion: 96 Resp: 183796

Ion Ratio Lower Upper

96 100

61 132.7 91.1 169.3

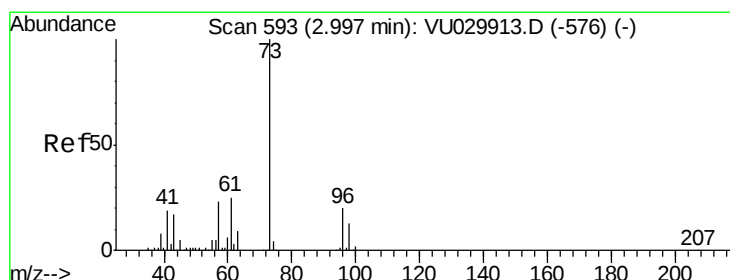
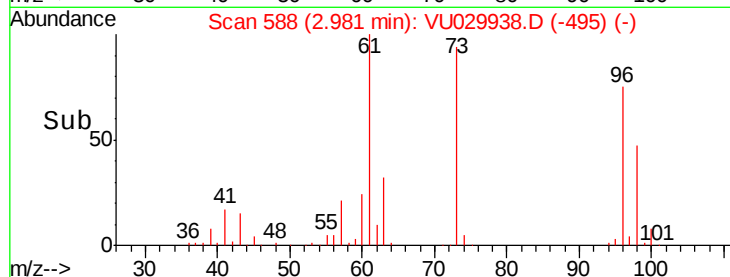
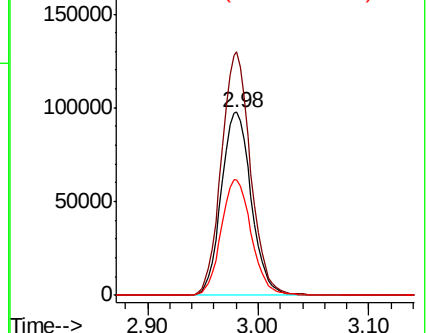
98 62.9 45.0 83.6



Abundance Ion 96.00 (95.70 to 96.70): VU029938.D (-500) (-)

Ion 61.00 (60.70 to 61.70): VU029938.D (-500) (-)

Ion 98.00 (97.70 to 98.70): VU029938.D (-500) (-)



#18

Methyl tert-butyl Ether

Concen: 54.110 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

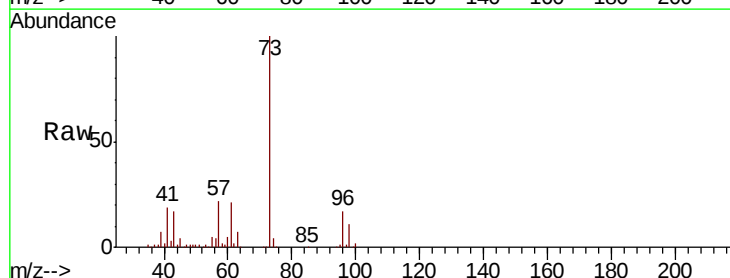
Tgt Ion: 73 Resp: 491721

Ion Ratio Lower Upper

73 100

43 16.9 13.5 20.3

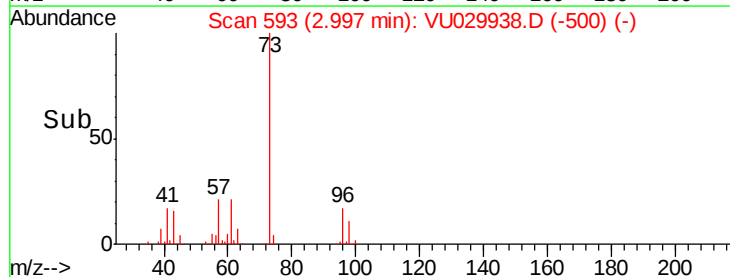
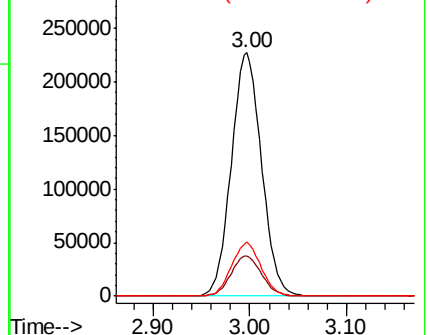
57 21.7 17.4 26.0

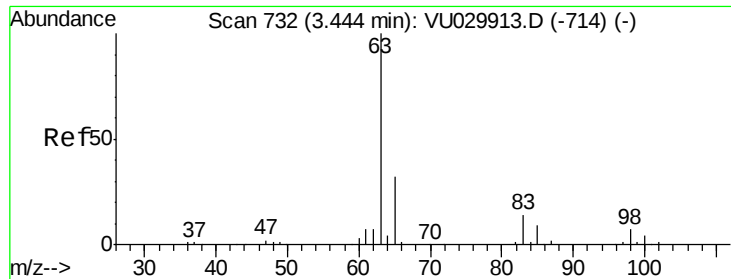


Abundance Ion 73.00 (72.70 to 73.70): VU029938.D (-500) (-)

Ion 43.00 (42.70 to 43.70): VU029938.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU029938.D (-500) (-)

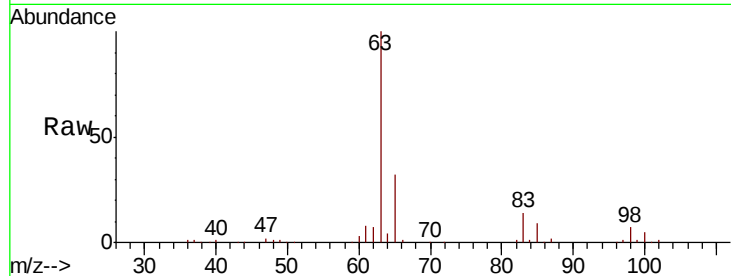




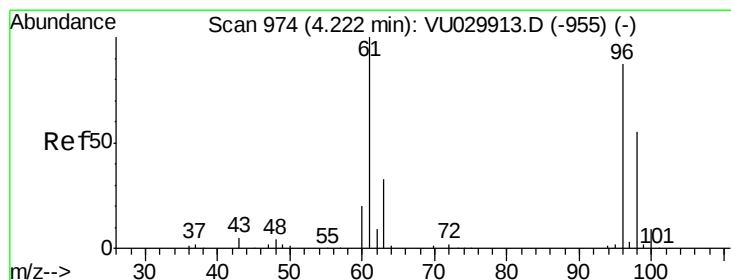
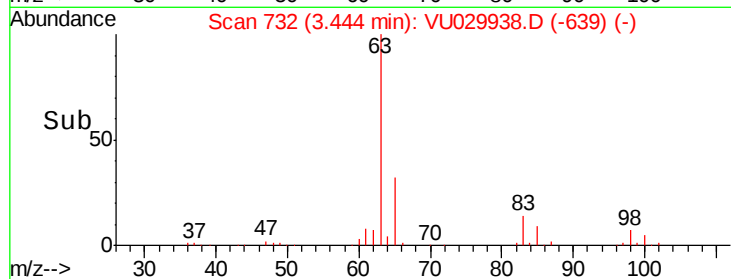
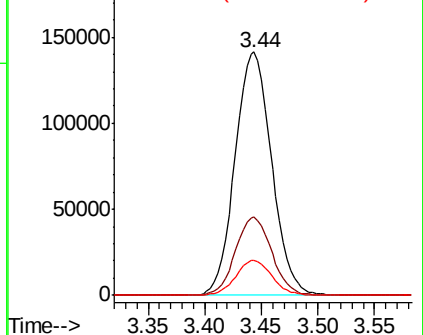
#19
 1,1-Dichloroethane
 Concen: 50.970 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU029938.D
 Acq: 09 Mar 2019 22:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

Tgt Ion: 63 Resp: 319071
 Ion Ratio Lower Upper
 63 100
 65 32.1 22.4 41.6
 83 14.4 9.7 18.1

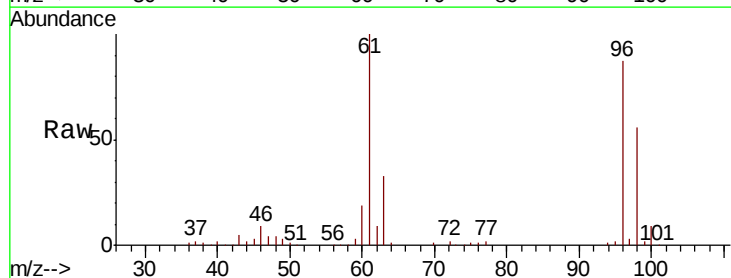


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

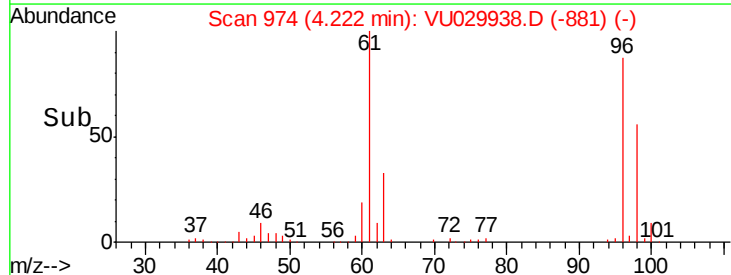
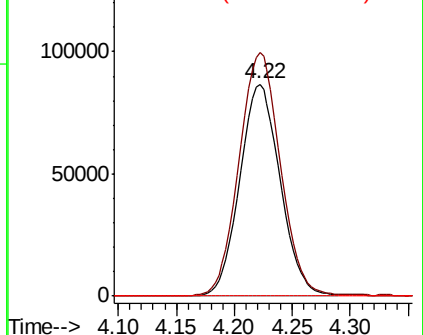


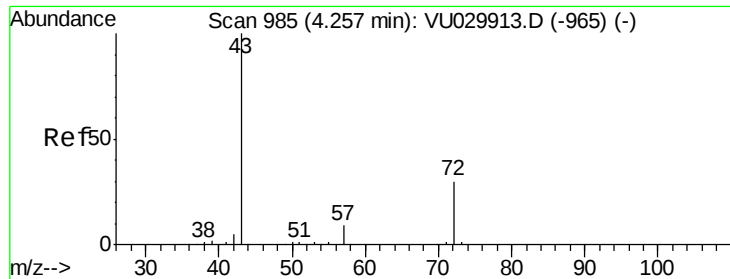
#20
 cis-1,2-Dichloroethene
 Concen: 50.772 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU029938.D
 Acq: 09 Mar 2019 22:17

Tgt Ion: 96 Resp: 210320
 Ion Ratio Lower Upper
 96 100
 61 114.7 80.6 149.8
 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: 88.609 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Instrument :

MSVOA_U

ClientSampled :

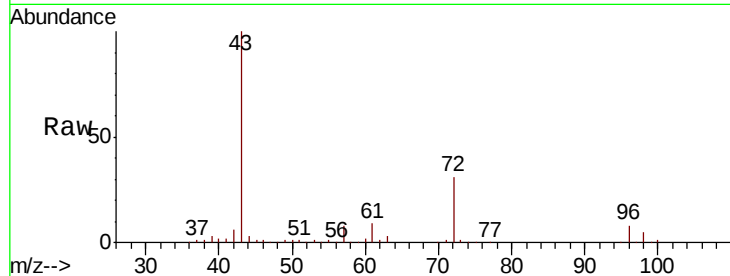
VSTD05055

Tgt Ion: 43 Resp: 289570

Ion Ratio Lower Upper

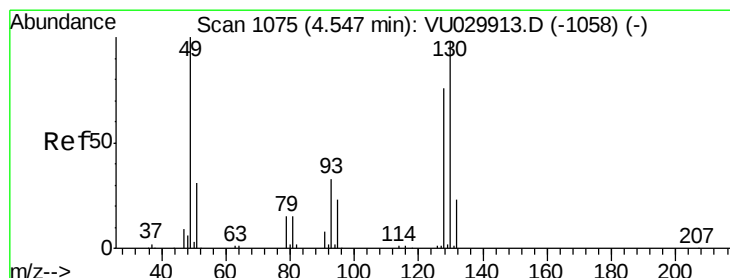
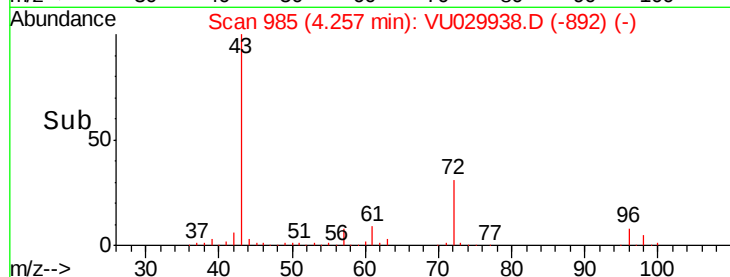
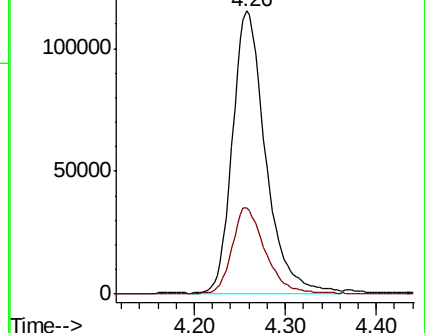
43 100

72 31.3 15.4 46.4



Abundance Ion 43.00 (42.70 to 43.70): VU029913.D (-965) (-)

Ion 72.00 (71.70 to 72.70): VU029913.D (-965) (-)



#23

Bromochloromethane

Concen: 51.941 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Tgt Ion: 128 Resp: 108161

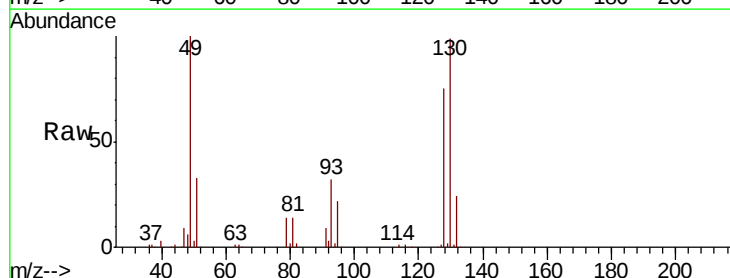
Ion Ratio Lower Upper

128 100

49 132.9 92.2 171.2

130 131.9 90.4 168.0

51 43.4 33.0 49.6

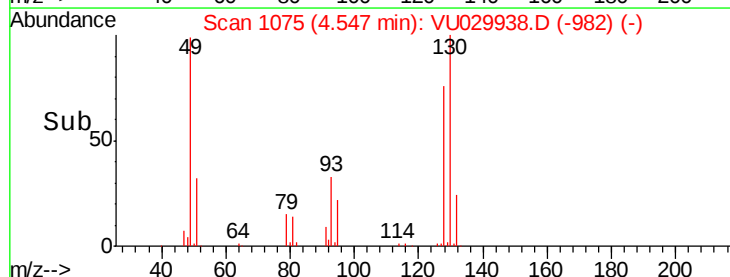
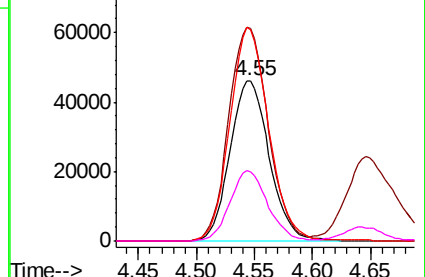


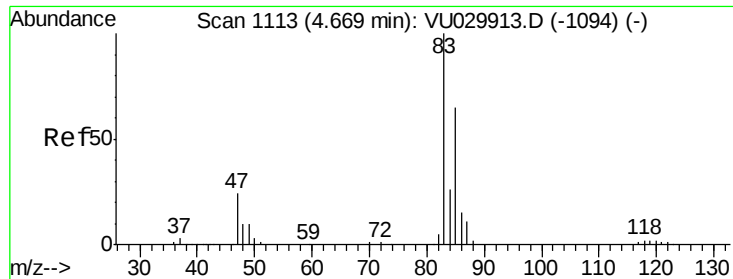
Abundance Ion 128.00 (127.70 to 128.70): VU029913.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU029913.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU029913.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU029913.D (-1058) (-)

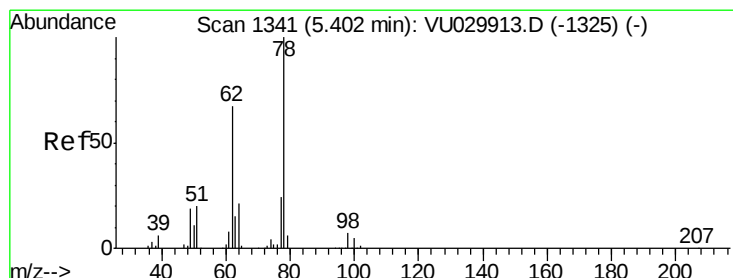
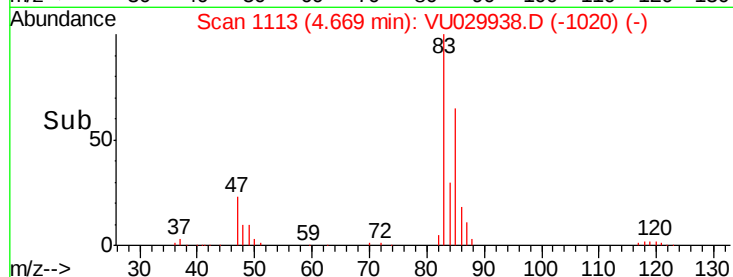
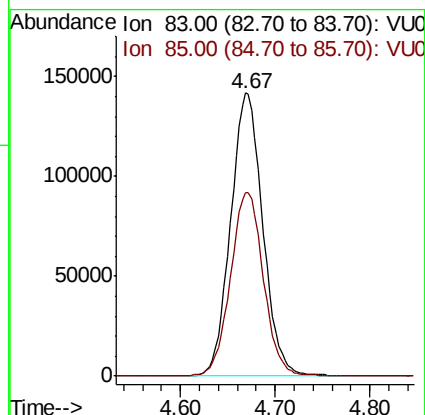
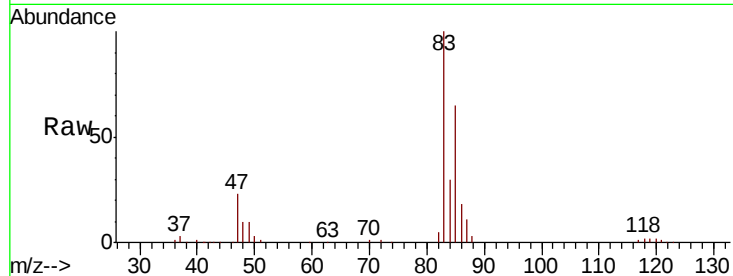




#25
Chloroform
Concen: 49.581 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

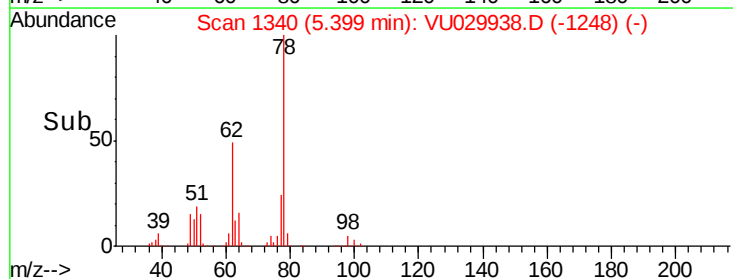
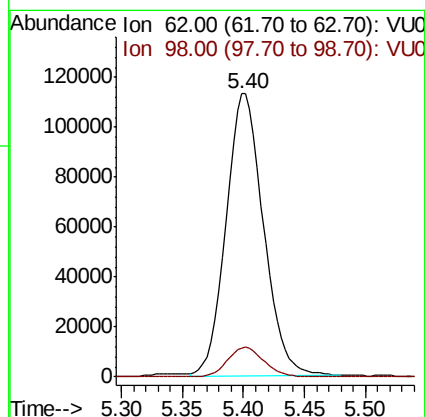
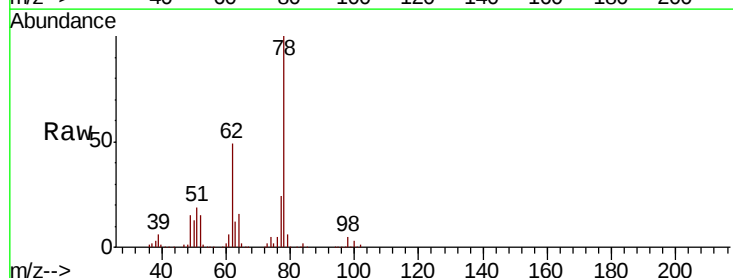
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

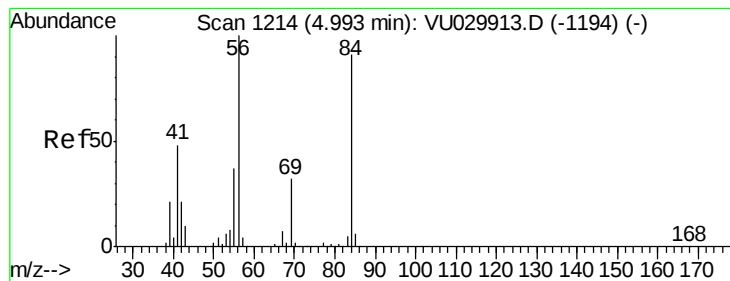
Tgt Ion: 83 Resp: 333988
Ion Ratio Lower Upper
83 100
85 65.0 45.3 84.1



#27
1,2-Dichloroethane
Concen: 50.469 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

Tgt Ion: 62 Resp: 241791
Ion Ratio Lower Upper
62 100
98 10.2 8.6 12.8





#29

Cyclohexane

Concen: 50.720 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

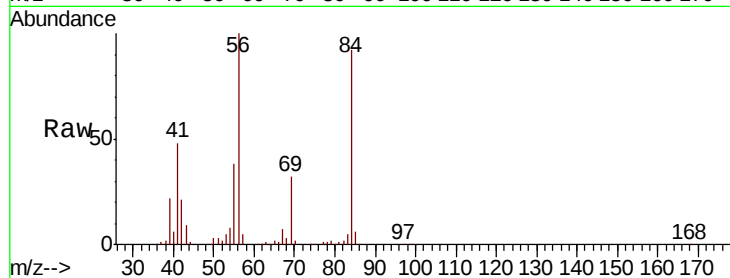
Tgt Ion: 56 Resp: 281881

Ion Ratio Lower Upper

56 100

69 32.5 25.4 38.0

84 92.1 73.0 109.6

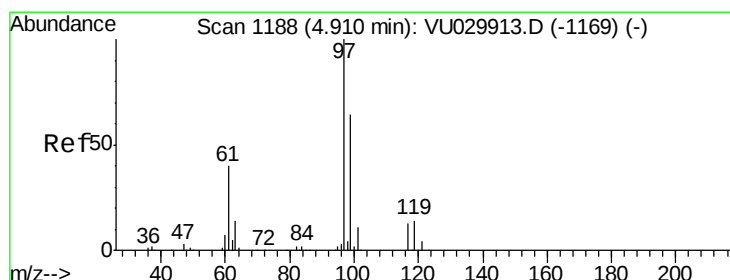
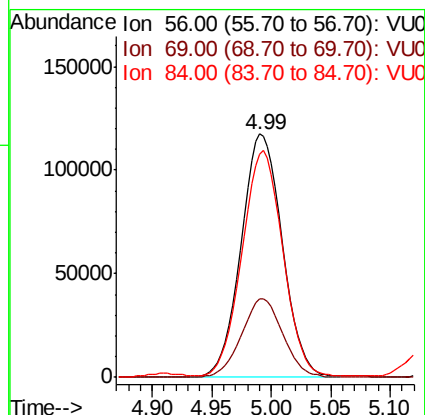
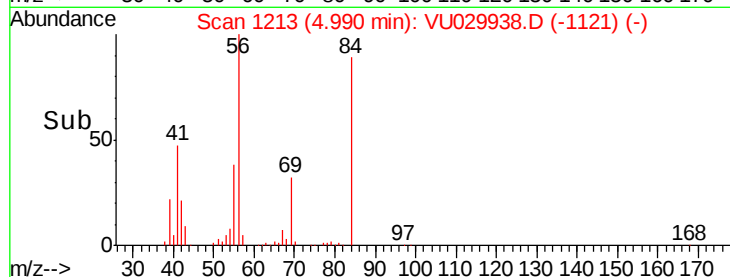


Abundance Ion 56.00 (55.70 to 56.70): VU029938.D (-1194) (-)

Ion 69.00 (68.70 to 69.70): VU029938.D (-1194) (-)

Ion 84.00 (83.70 to 84.70): VU029938.D (-1194) (-)

Time-->



#30

1,1,1-Trichloroethane

Concen: 51.274 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

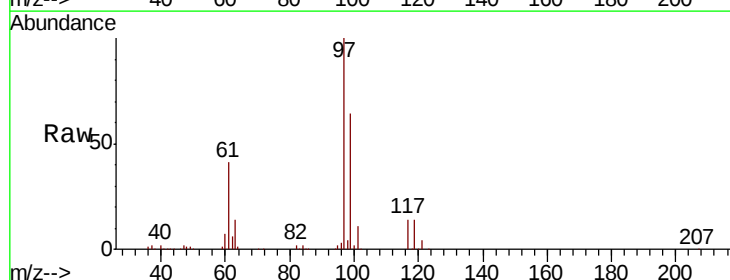
Tgt Ion: 97 Resp: 280316

Ion Ratio Lower Upper

97 100

99 64.3 51.4 77.0

61 40.4 32.2 48.2

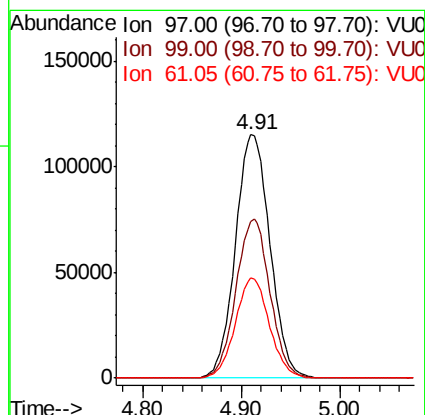
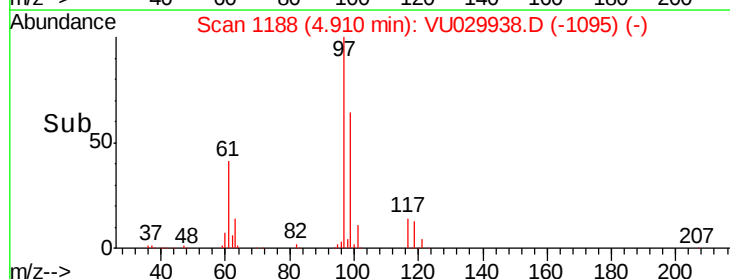


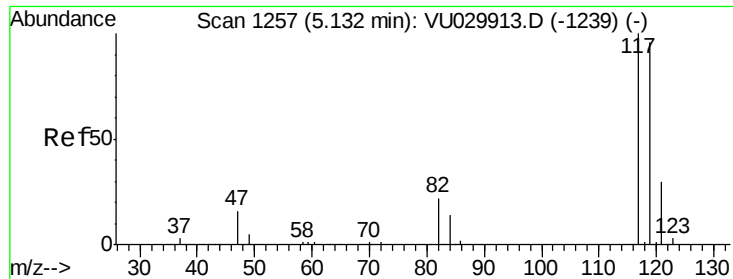
Abundance Ion 97.00 (96.70 to 97.70): VU029938.D (-1095) (-)

Ion 99.00 (98.70 to 99.70): VU029938.D (-1095) (-)

Ion 61.05 (60.75 to 61.75): VU029938.D (-1095) (-)

Time-->

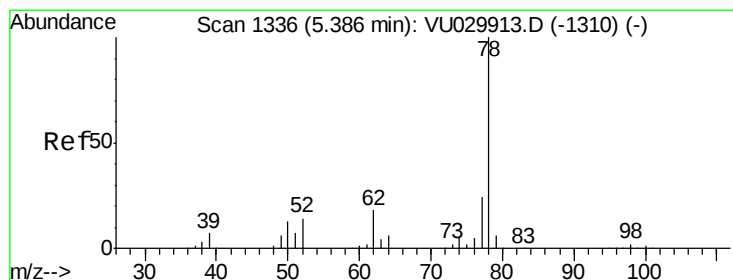
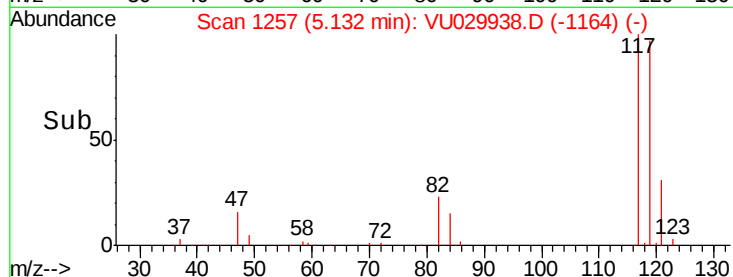
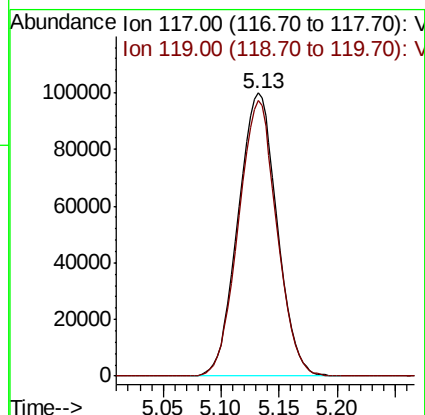
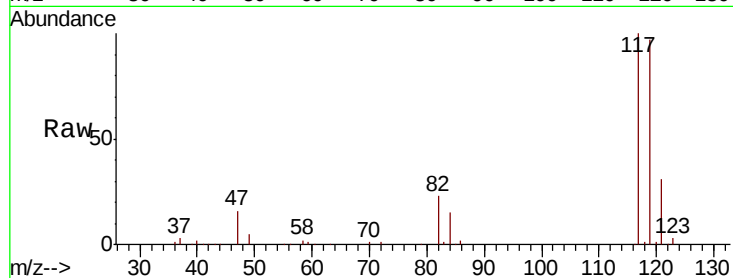




#31
Carbon tetrachloride
Concen: 48.268 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

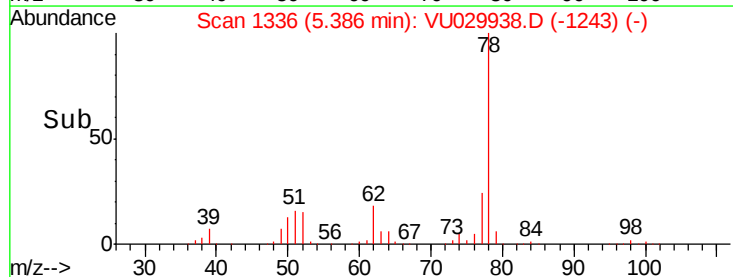
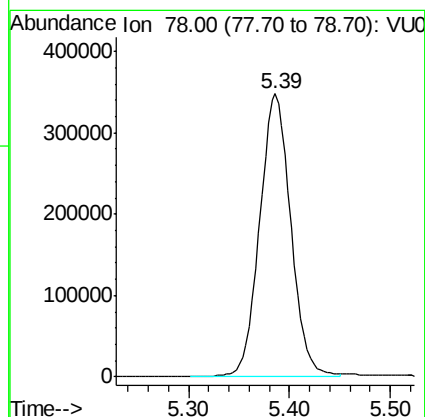
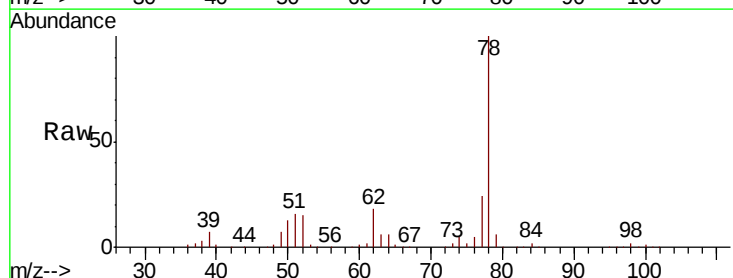
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

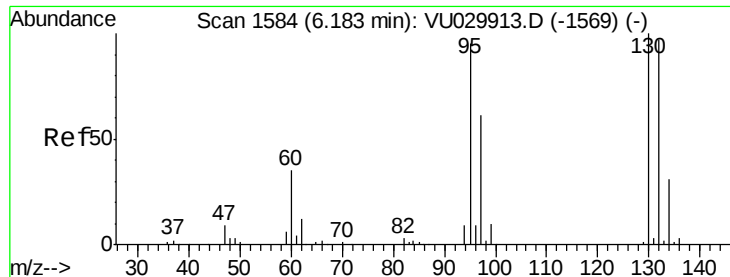
Tgt Ion:117 Resp: 233010
Ion Ratio Lower Upper
117 100
119 95.8 76.9 115.3



#33
Benzene
Concen: 51.587 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

Tgt Ion: 78 Resp: 747950





#34

Trichloroethene

Concen: 49.439 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

Tgt Ion: 95 Resp: 193184

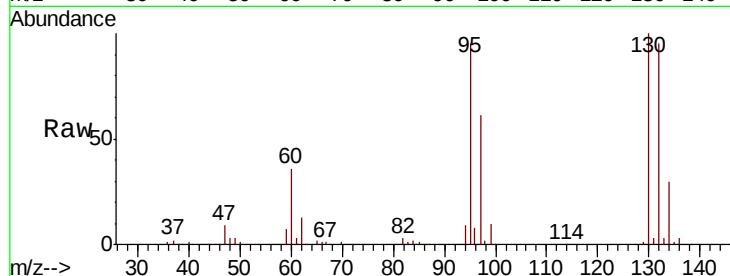
Ion Ratio Lower Upper

95 100

97 64.6 45.1 83.7

132 100.8 72.0 133.6

130 105.8 74.1 137.5

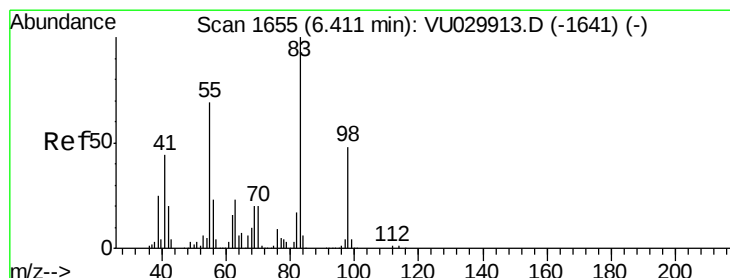
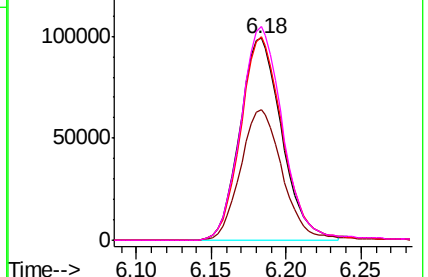
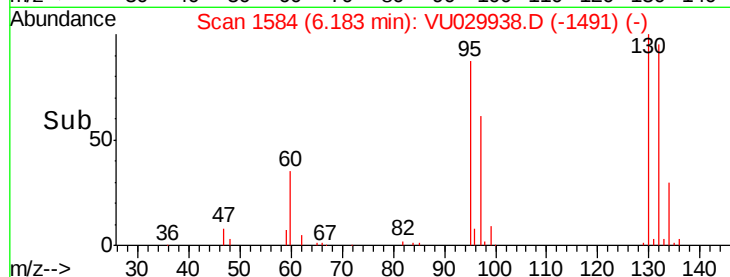


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 49.320 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

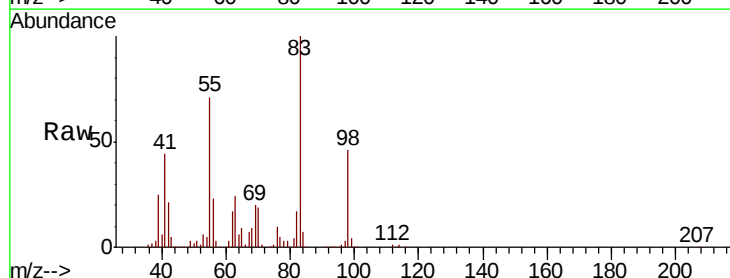
Tgt Ion: 83 Resp: 307520

Ion Ratio Lower Upper

83 100

55 71.4 55.5 83.3

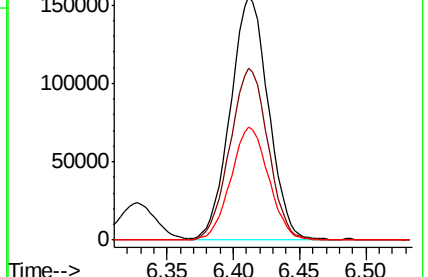
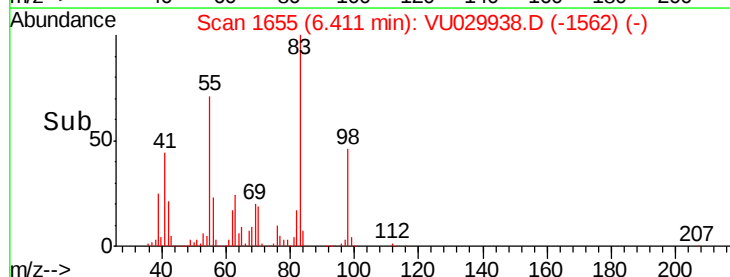
98 46.6 37.6 56.4

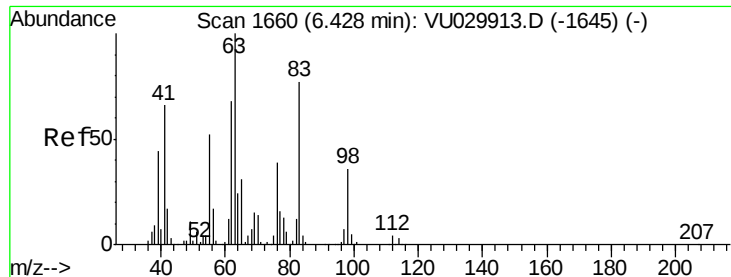


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

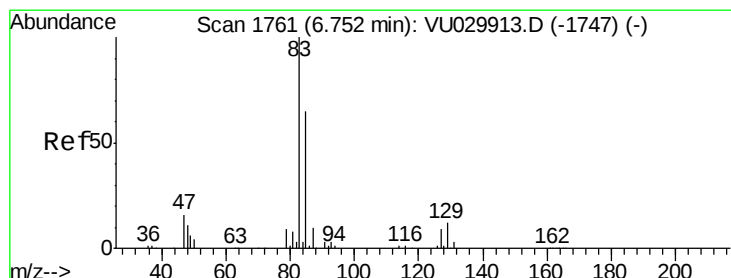
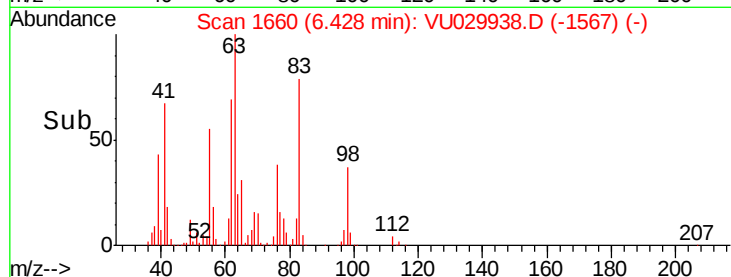
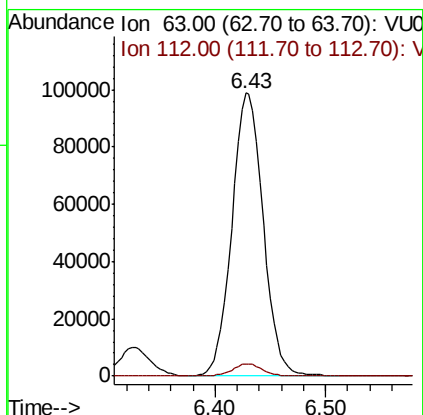
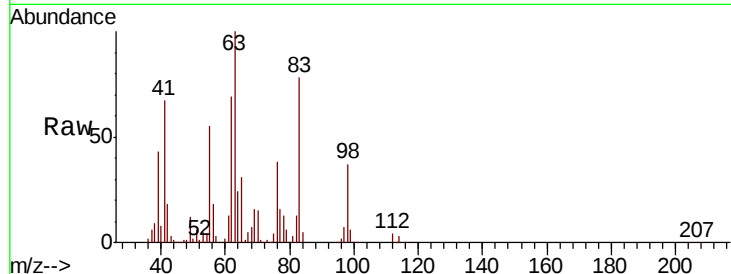




#37
 1,2-Dichloropropane
 Concen: 51.563 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU029938.D
 Acq: 09 Mar 2019 22:17

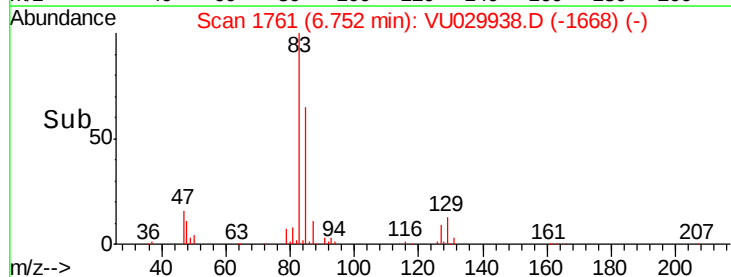
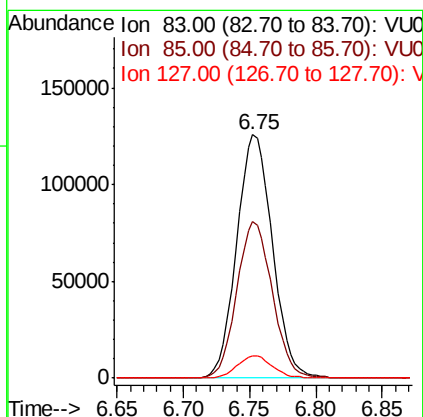
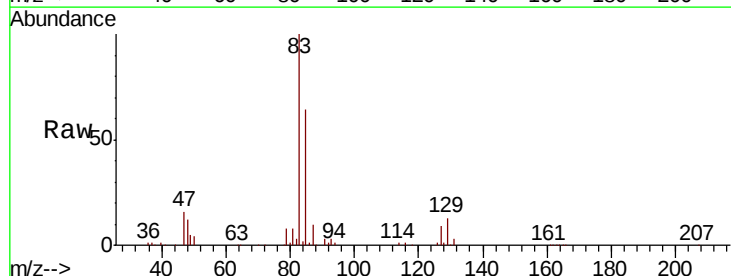
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

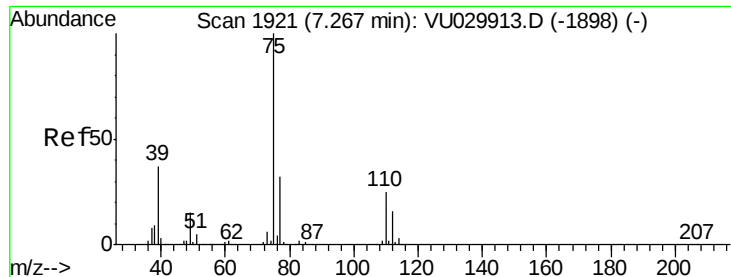
Tgt Ion: 63 Resp: 194823
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.4 5.0



#38
 Bromodichloromethane
 Concen: 49.881 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU029938.D
 Acq: 09 Mar 2019 22:17

Tgt Ion: 83 Resp: 235941
 Ion Ratio Lower Upper
 83 100
 85 64.1 45.2 84.0
 127 9.1 7.4 11.0

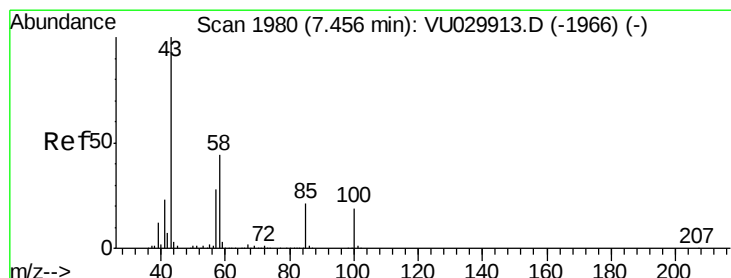
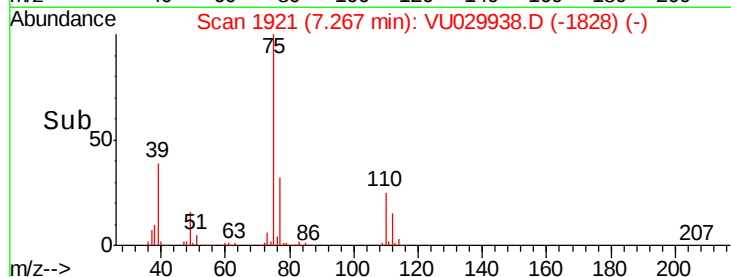
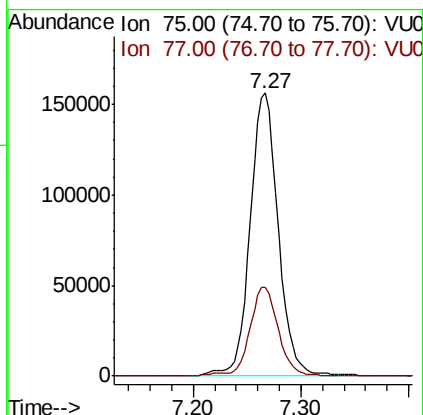
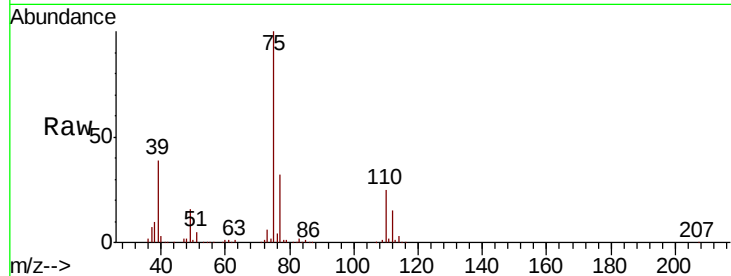




#39
 cis-1,3-Dichloropropene
 Concen: 49.165 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU029938.D
 Acq: 09 Mar 2019 22:17

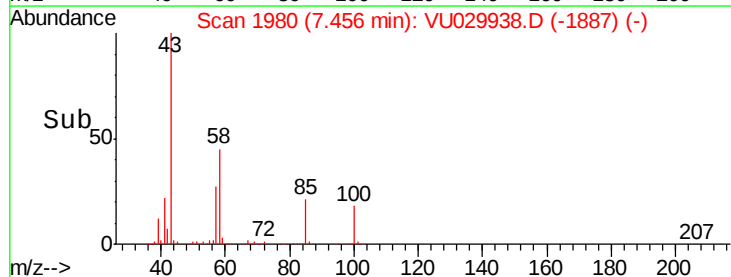
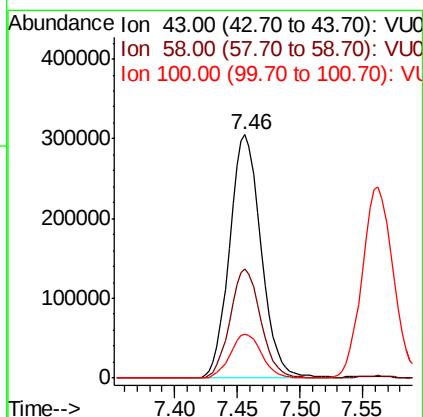
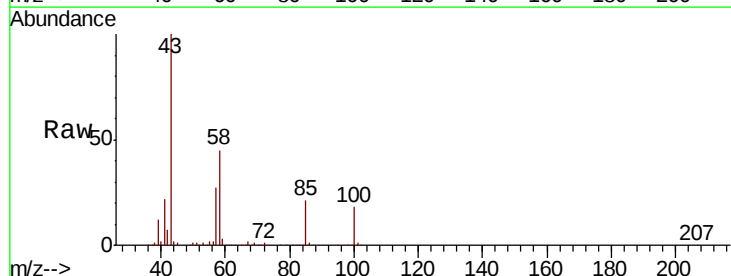
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

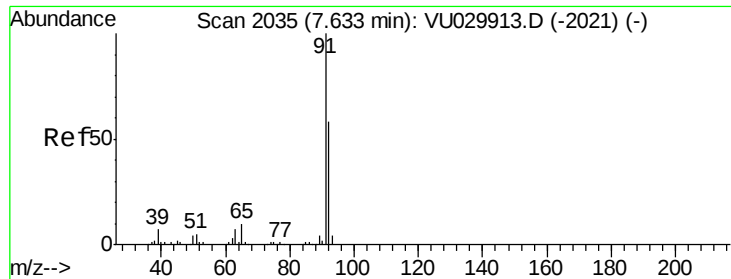
Tgt Ion: 75 Resp: 282709
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.5 41.9



#40
 4-Methyl-2-pentanone
 Concen: 106.090 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU029938.D
 Acq: 09 Mar 2019 22:17

Tgt Ion: 43 Resp: 534497
 Ion Ratio Lower Upper
 43 100
 58 43.9 35.0 52.6
 100 18.1 14.8 22.2





#42

Toluene

Concen: 52.158 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

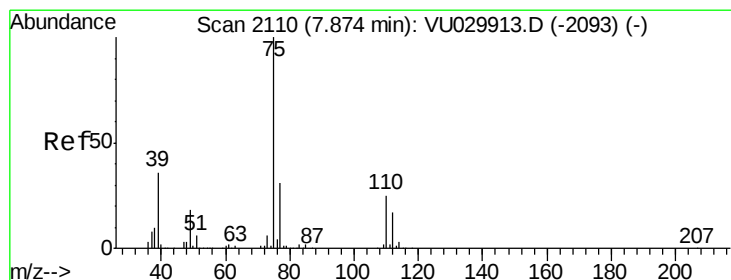
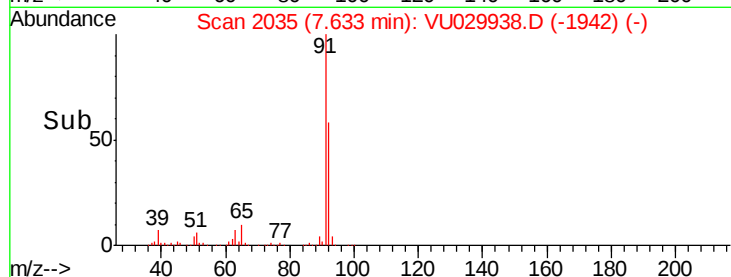
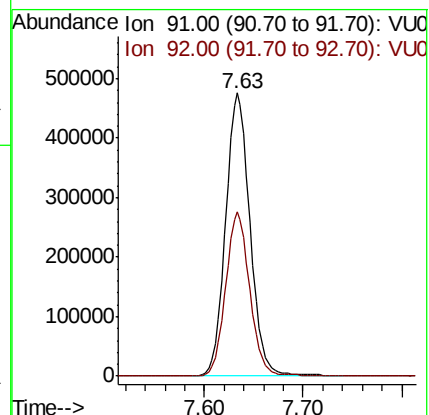
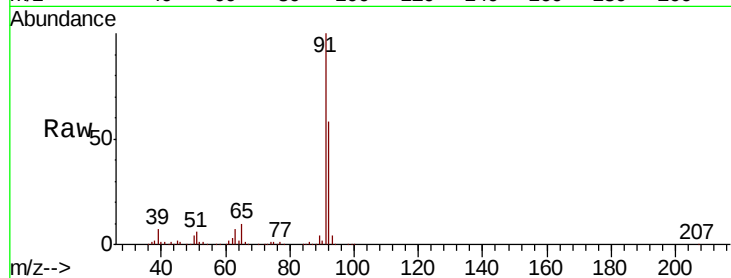
VSTD05055

Tgt Ion: 91 Resp: 826652

Ion Ratio Lower Upper

91 100

92 57.9 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 49.544 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU029938.D

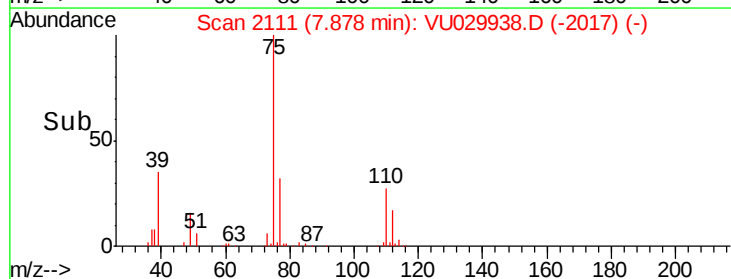
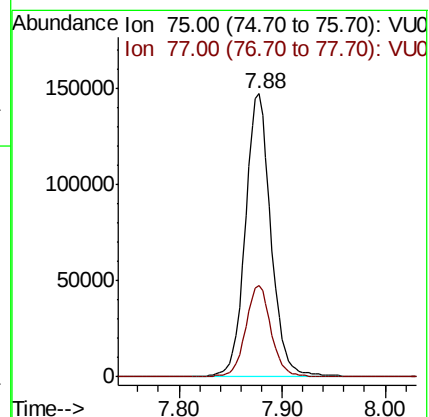
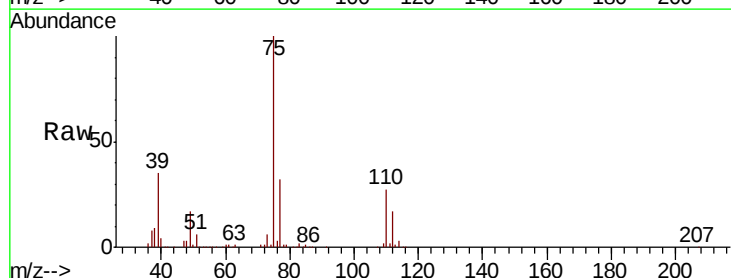
Acq: 09 Mar 2019 22:17

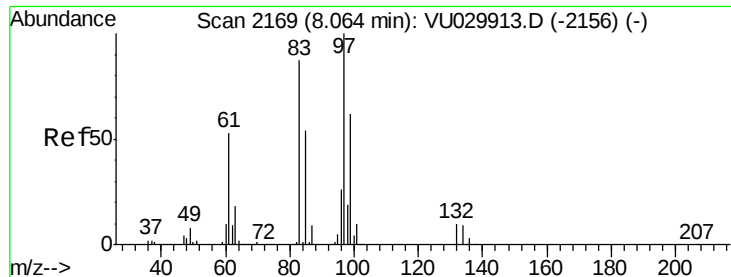
Tgt Ion: 75 Resp: 253811

Ion Ratio Lower Upper

75 100

77 32.3 21.8 40.6

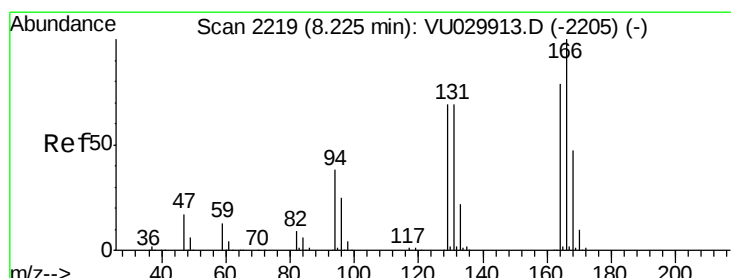
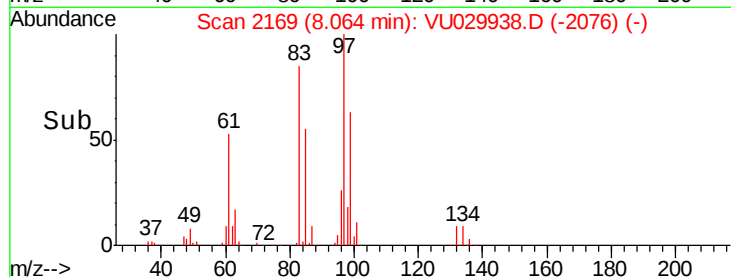
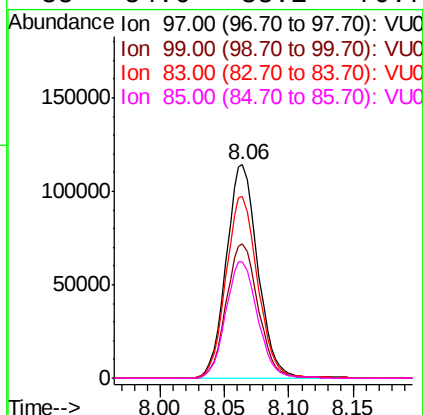
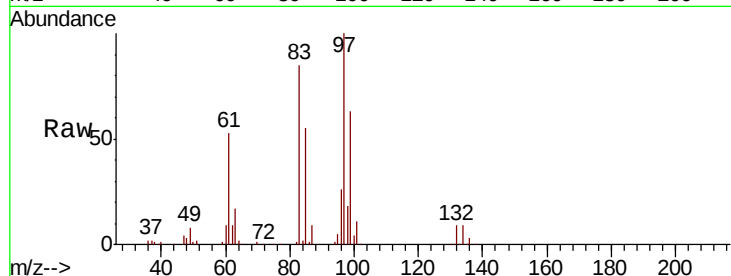




#45
 1,1,2-Trichloroethane
 Concen: 50.654 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU029938.D
 Acq: 09 Mar 2019 22:17

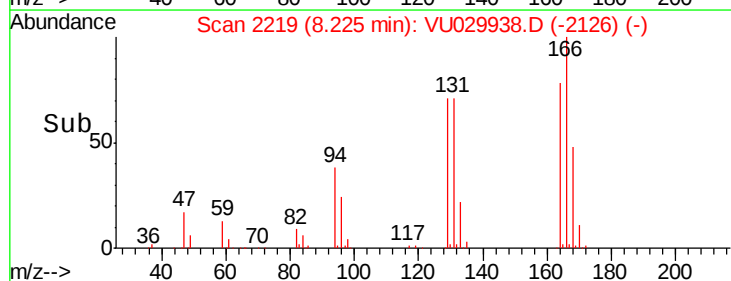
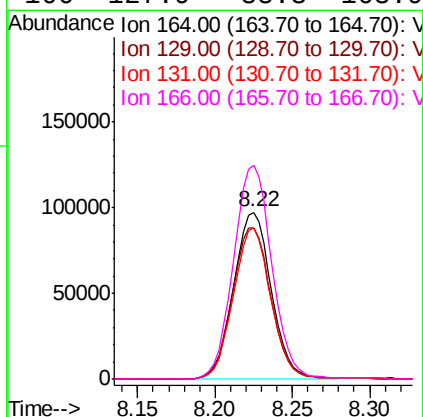
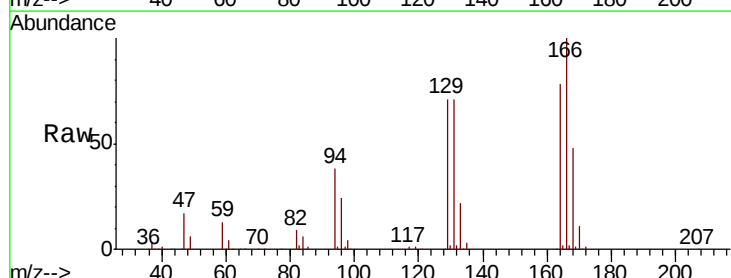
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

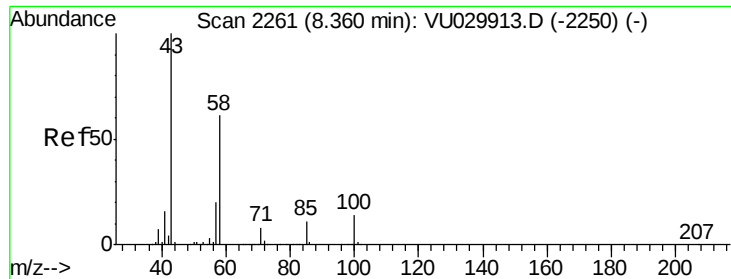
Tgt Ion:	97	Resp:	194280
Ion	Ratio	Lower	Upper
97	100		
99	62.9	43.7	81.1
83	84.8	60.8	112.8
85	54.6	38.1	70.7



#46
 Tetrachloroethene
 Concen: 49.018 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU029938.D
 Acq: 09 Mar 2019 22:17

Tgt Ion:	164	Resp:	164960
Ion	Ratio	Lower	Upper
164	100		
129	90.2	61.0	113.2
131	90.2	60.5	112.3
166	127.9	88.3	163.9

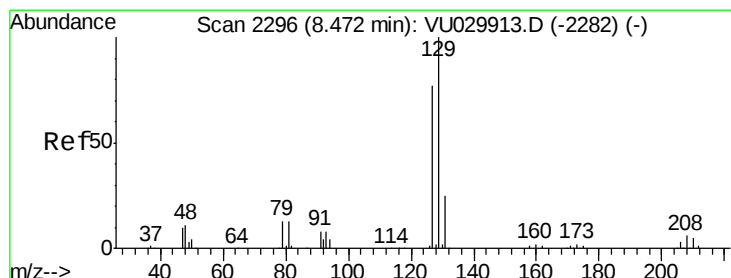
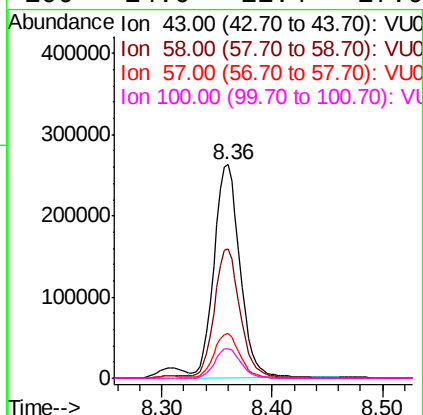
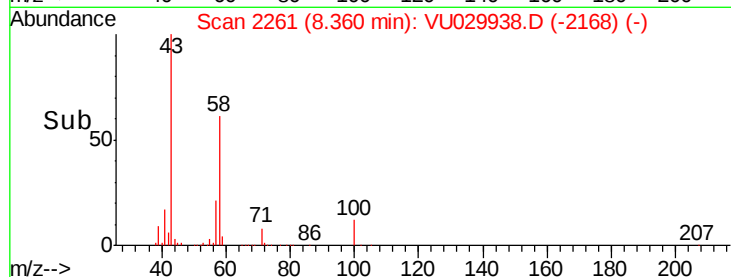
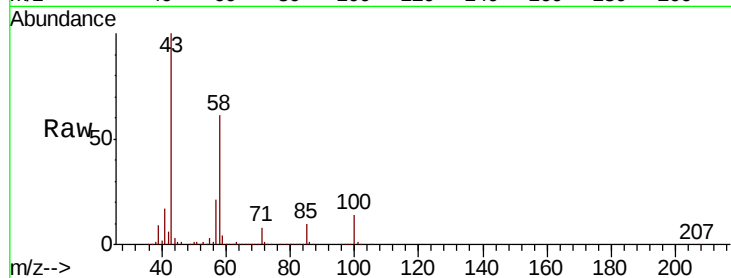




#48
2-Hexanone
Concen: 100.669 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

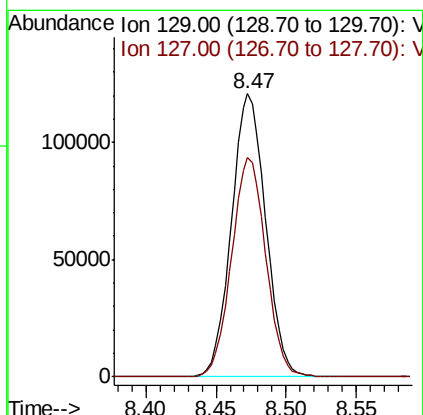
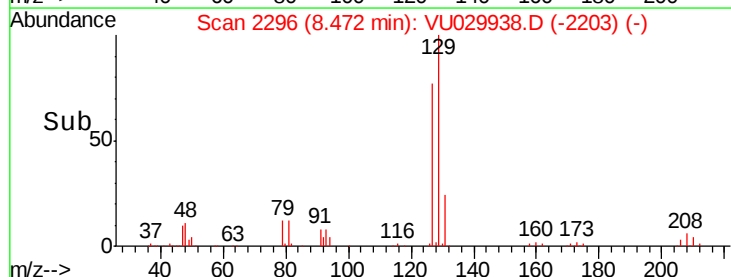
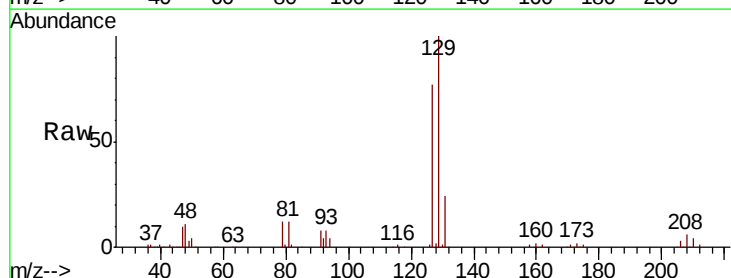
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

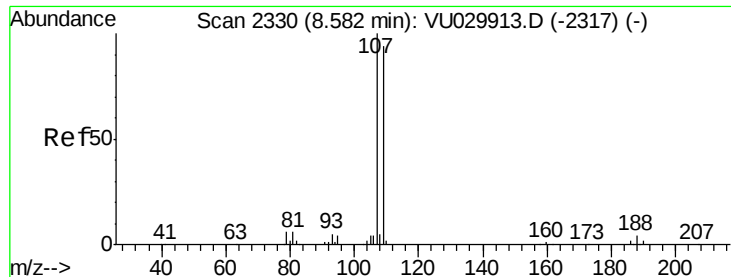
Tgt Ion:	43	Resp:	428759
Ion	Ratio	Lower	Upper
43	100		
58	59.9	49.2	73.8
57	20.6	16.6	25.0
100	14.0	11.4	17.0



#49
Dibromochloromethane
Concen: 48.959 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

Tgt Ion:	129	Resp:	205528
Ion	Ratio	Lower	Upper
129	100		
127	77.4	54.3	100.8

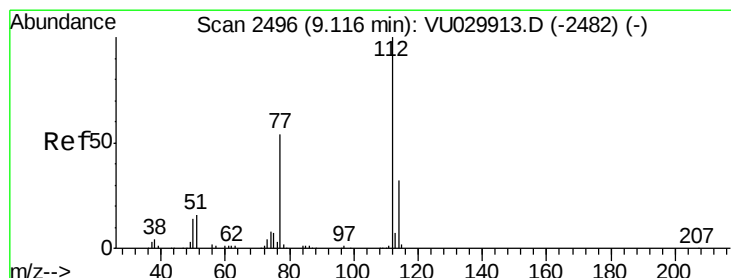
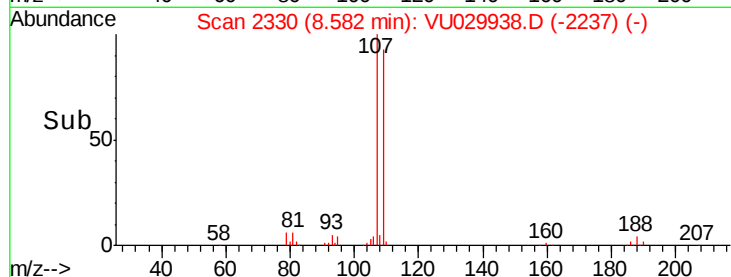
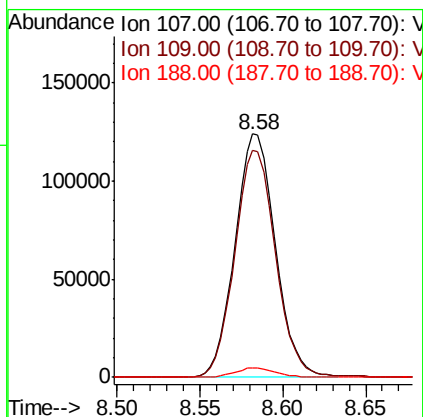
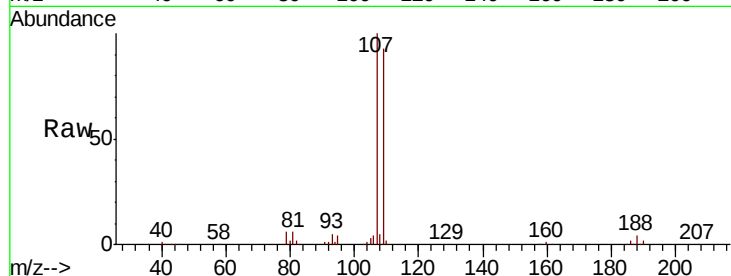




#50
1,2-Dibromoethane
Concen: 50.886 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

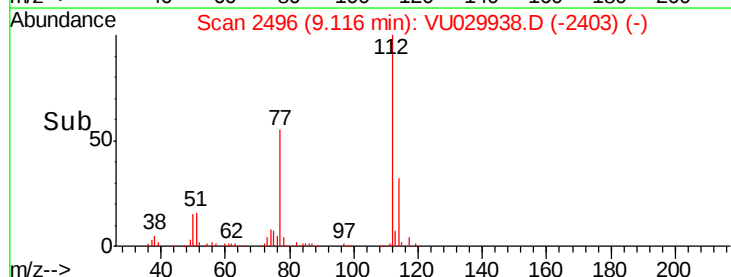
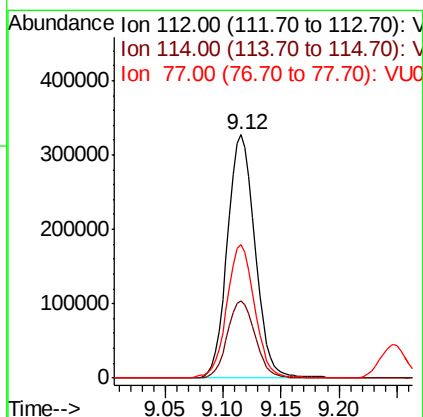
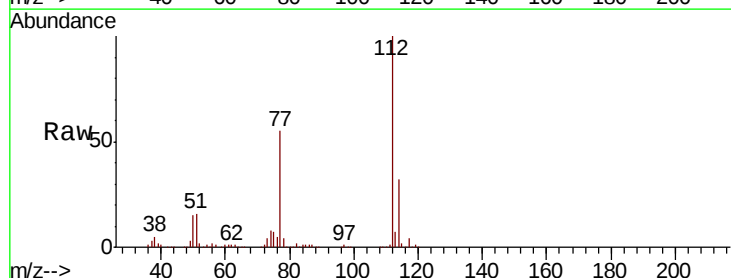
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MSVOA_U
ClientSampleId :
VSTD05055

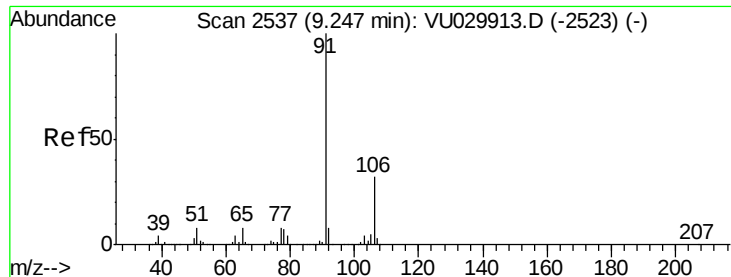
Tgt Ion:107 Resp: 210351
Ion Ratio Lower Upper
107 100
109 93.5 65.7 121.9
188 4.0 2.9 4.3



#51
Chlorobenzene
Concen: 50.491 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

Tgt Ion:112 Resp: 541593
Ion Ratio Lower Upper
112 100
114 31.7 22.4 41.6
77 54.9 43.5 65.3





#52

Ethylbenzene

Concen: 51.988 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

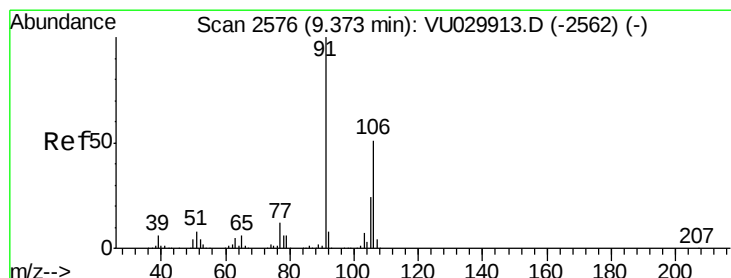
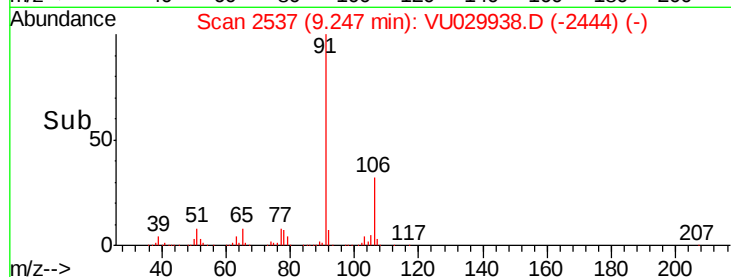
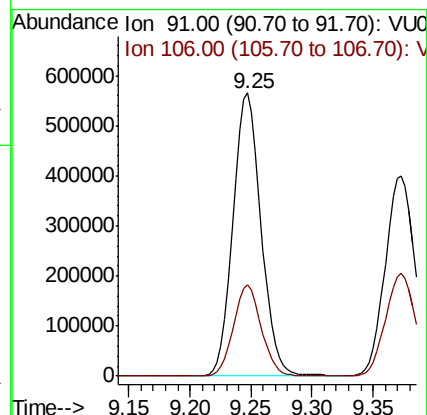
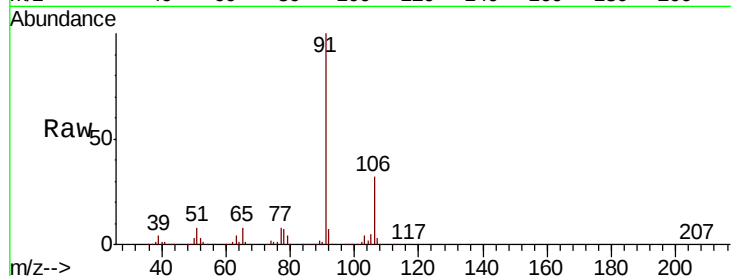
VSTD05055

Tgt Ion: 91 Resp: 911370

Ion Ratio Lower Upper

91 100

106 32.2 22.5 41.7



#53

m,p-Xylene

Concen: 51.984 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029938.D

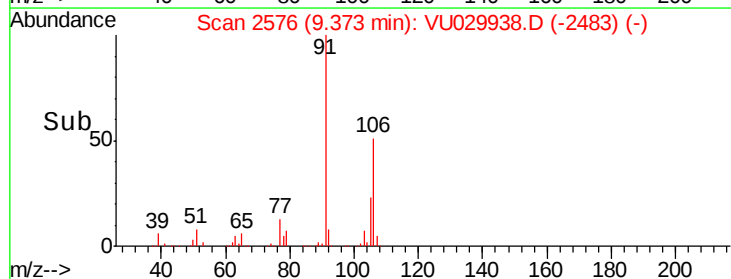
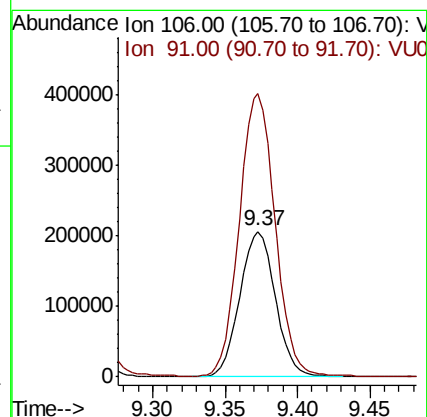
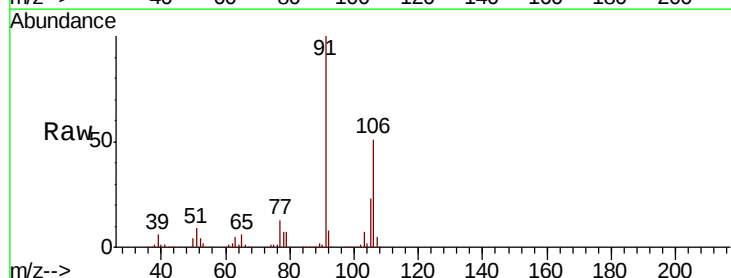
Acq: 09 Mar 2019 22:17

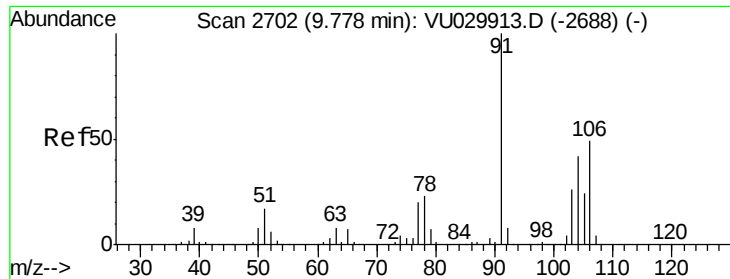
Tgt Ion: 106 Resp: 348869

Ion Ratio Lower Upper

106 100

91 195.0 137.8 256.0

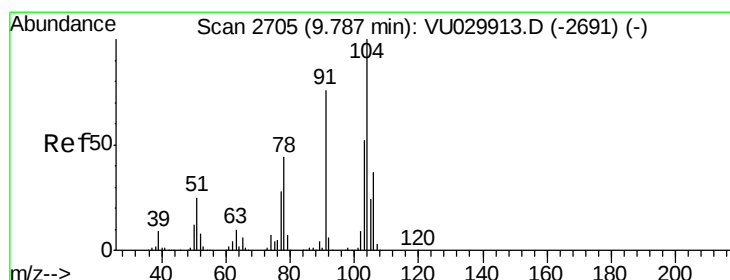
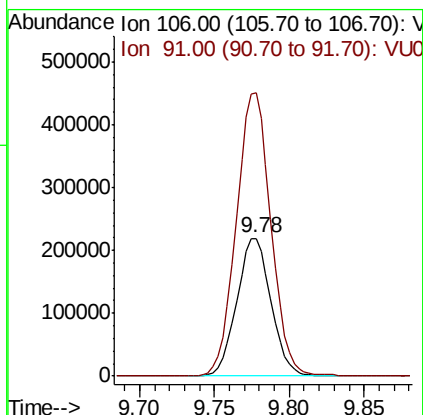
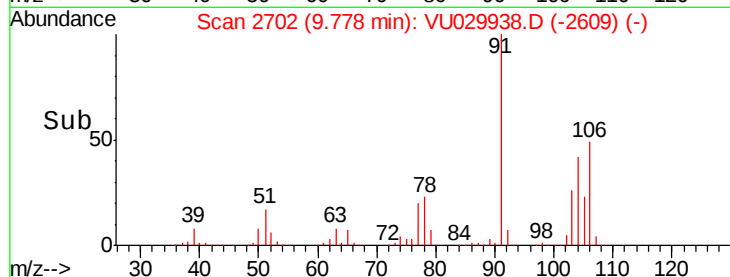
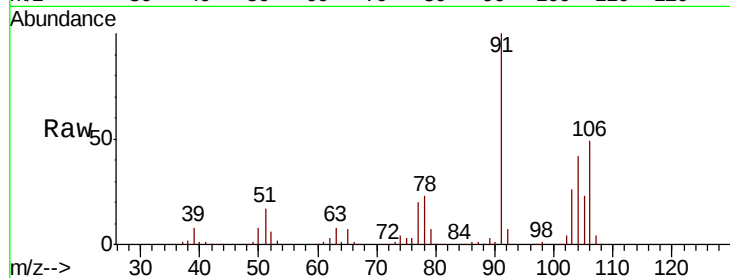




#54
o-xylene
Concen: 52.268 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

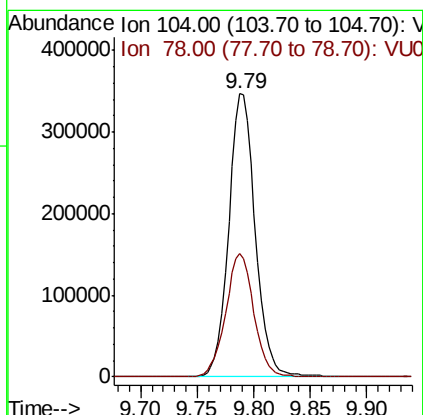
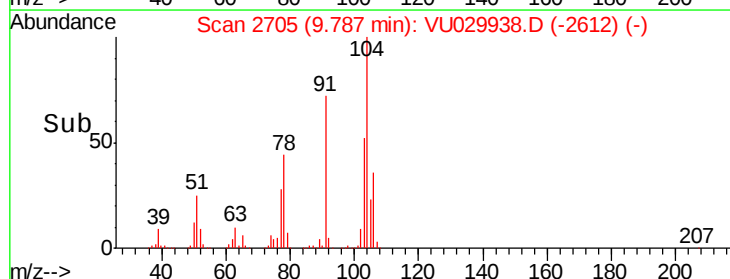
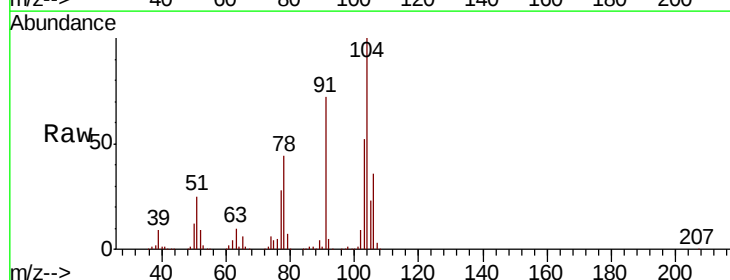
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

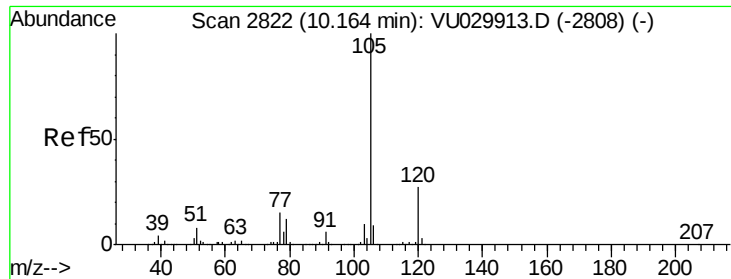
Tgt Ion:106 Resp: 349235
Ion Ratio Lower Upper
106 100
91 205.8 143.6 266.8



#55
Styrene
Concen: 52.314 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

Tgt Ion:104 Resp: 567072
Ion Ratio Lower Upper
104 100
78 43.7 30.6 56.8

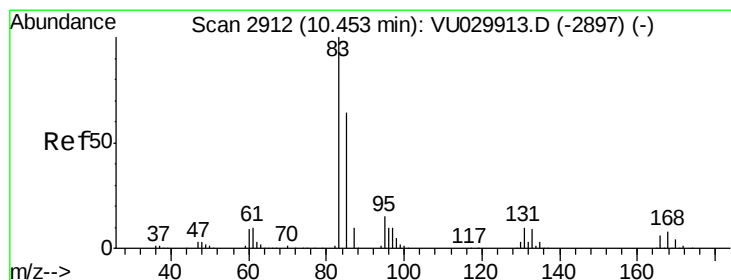
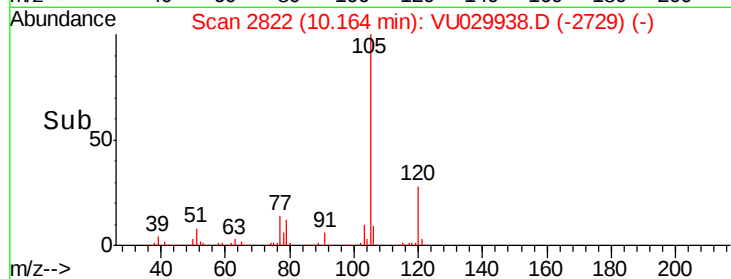
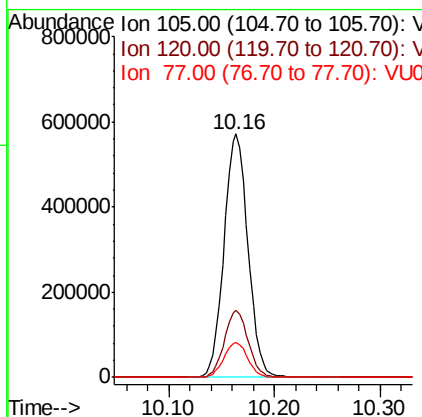
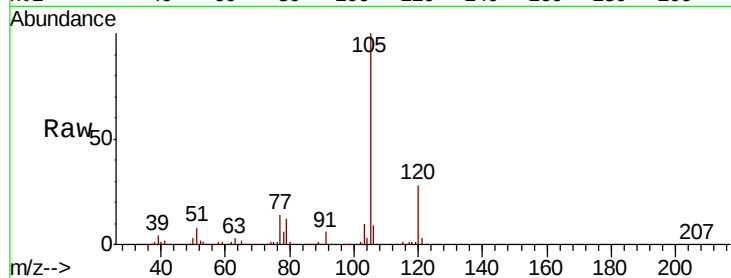




#56
Isopropylbenzene
Concen: 51.705 ug/L
RT: 10.16 min Scan# 2822
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

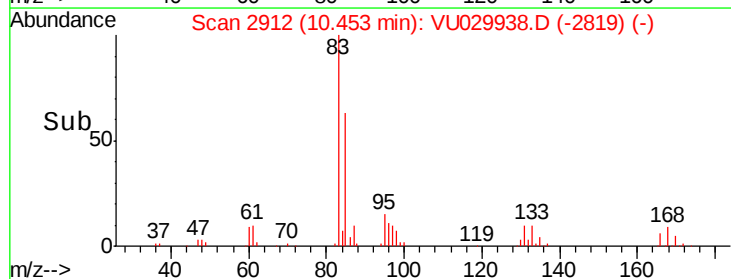
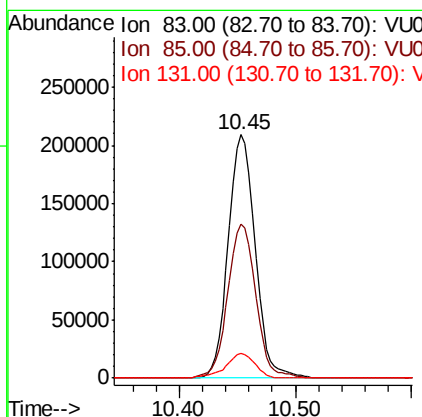
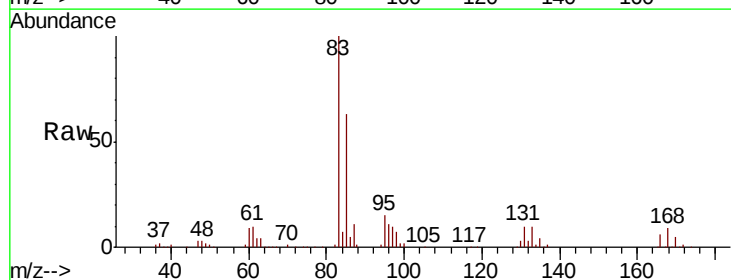
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

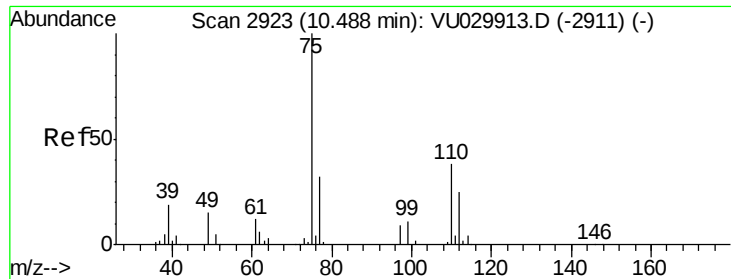
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.4	21.6	32.4
77	14.3	11.5	17.3



#58
1,1,2,2-Tetrachloroethane
Concen: 50.854 ug/L
RT: 10.45 min Scan# 2912
Delta R.T. 0.00 min
Lab File: VU029938.D
Acq: 09 Mar 2019 22:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.4	45.0	83.6
131	10.2	8.0	12.0

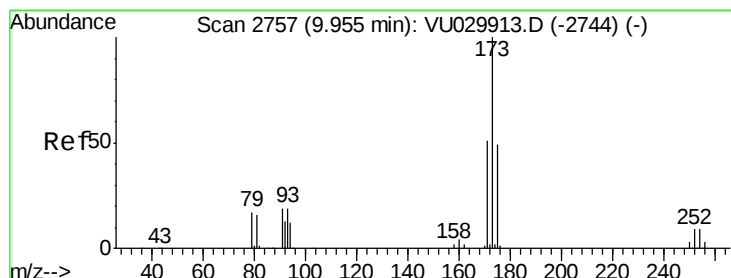
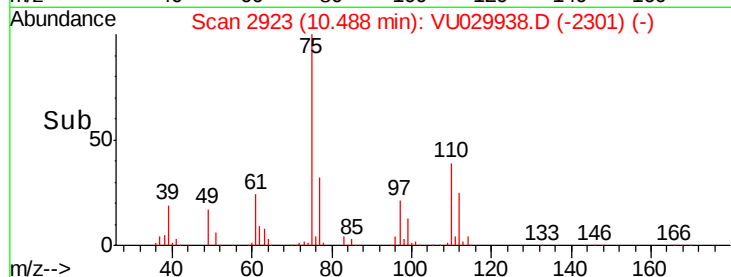
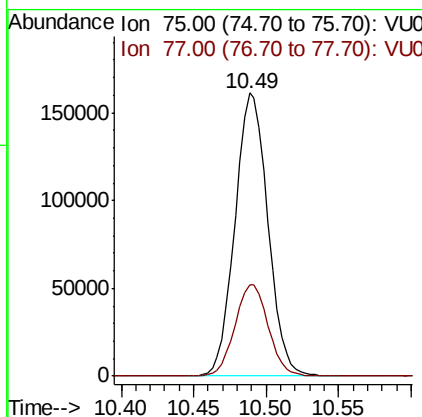
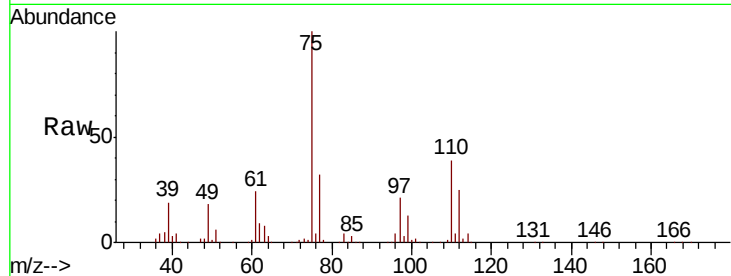




#59
 1,2,3-Trichloropropane
 Concen: 50.828 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU029938.D
 Acq: 09 Mar 2019 22:17

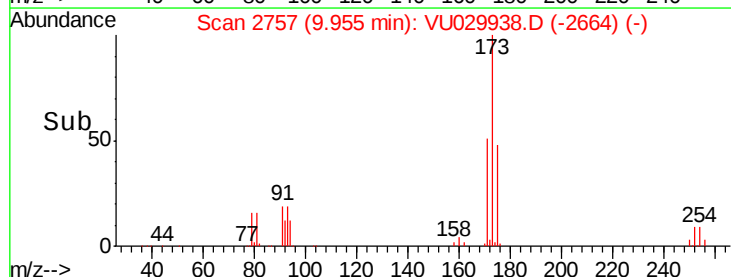
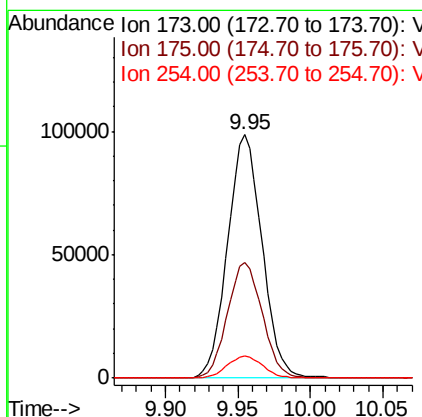
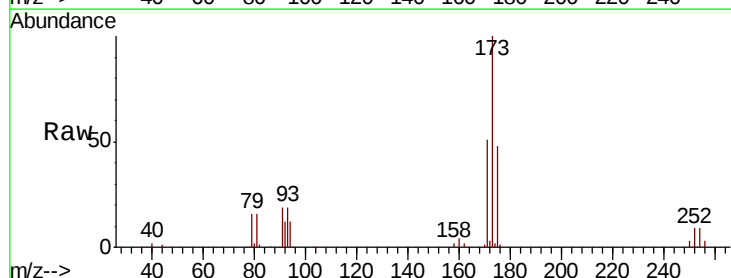
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

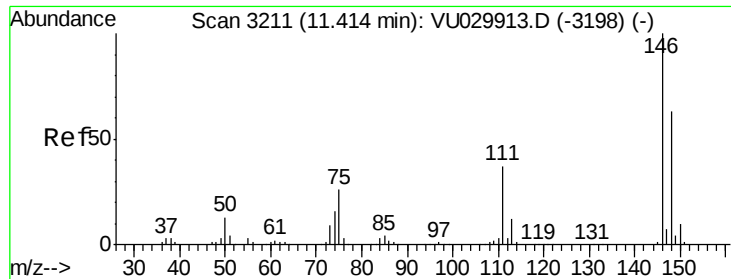
Tgt Ion: 75 Resp: 254568
 Ion Ratio Lower Upper
 75 100
 77 32.7 26.1 39.1



#61
 Bromoform
 Concen: 49.247 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU029938.D
 Acq: 09 Mar 2019 22:17

Tgt Ion: 173 Resp: 163102
 Ion Ratio Lower Upper
 173 100
 175 48.0 38.7 58.1
 254 9.3 7.4 11.2





#62

1,3-Dichlorobenzene

Concen: 49.971 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

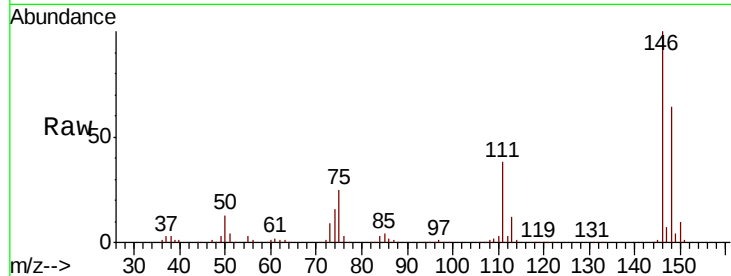
Tgt Ion:146 Resp: 434542

Ion Ratio Lower Upper

146 100

111 38.2 25.7 47.7

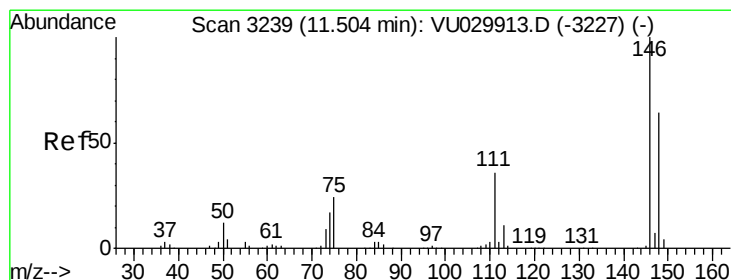
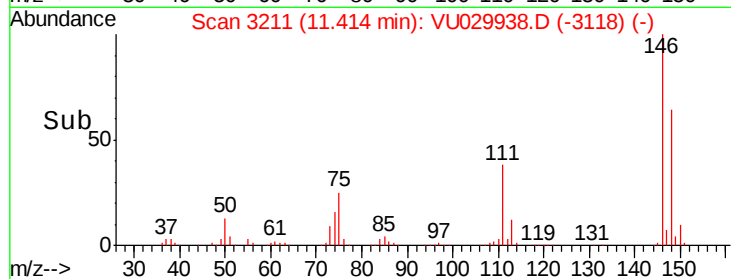
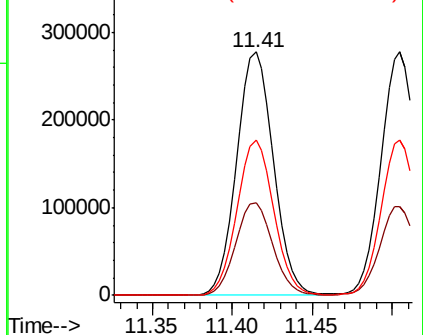
148 63.8 44.2 82.0



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: 49.111 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

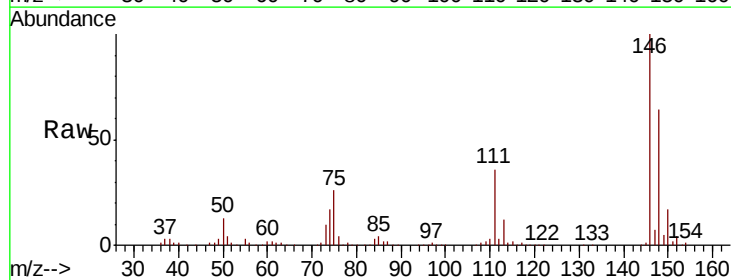
Tgt Ion:146 Resp: 437313

Ion Ratio Lower Upper

146 100

111 36.5 25.3 46.9

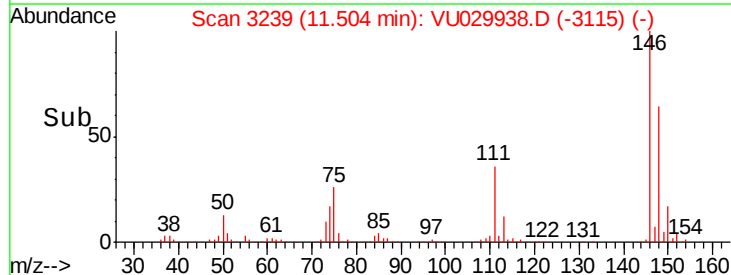
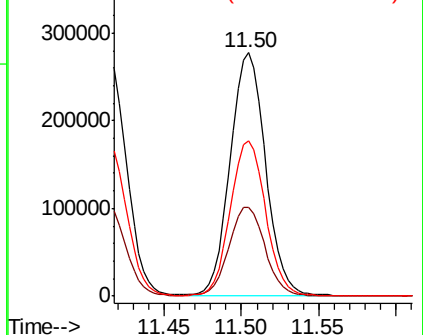
148 64.0 44.9 83.3

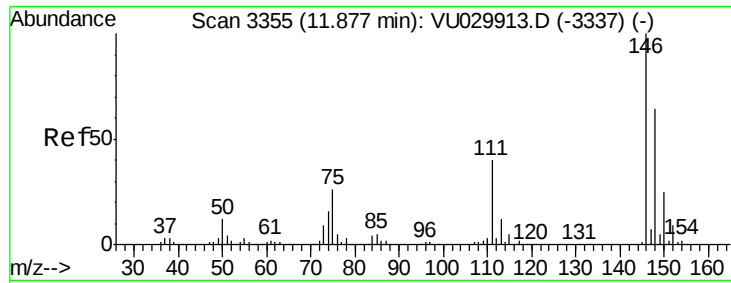


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 50.252 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

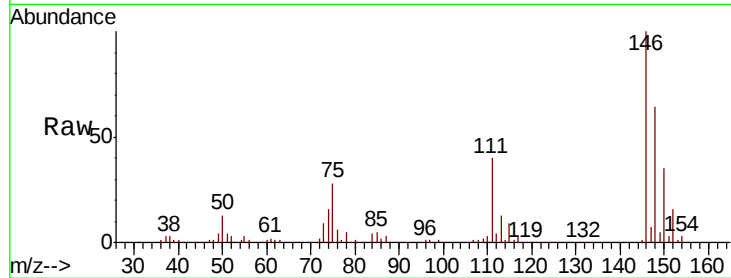
Tgt Ion:146 Resp: 445744

Ion Ratio Lower Upper

146 100

111 40.2 31.8 47.6

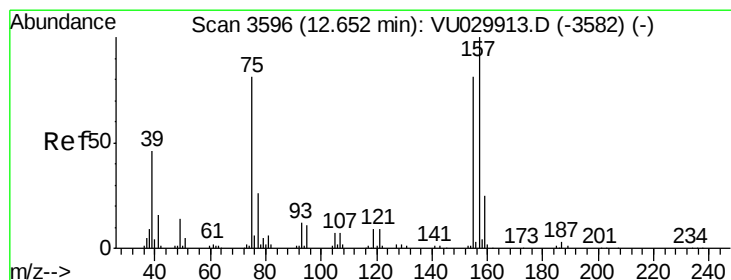
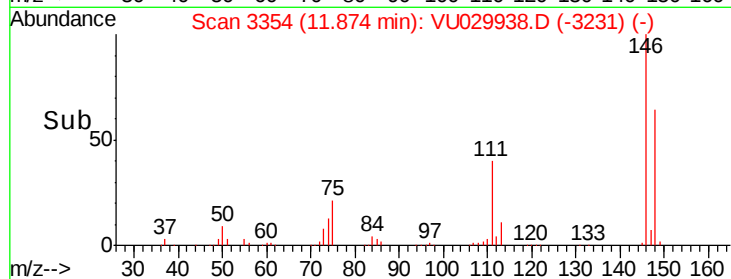
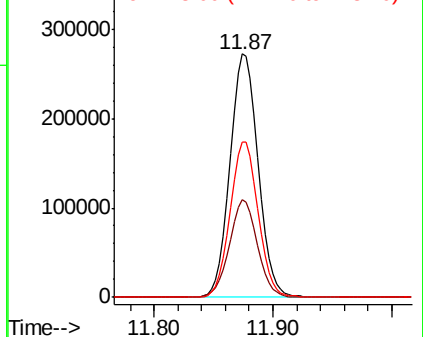
148 64.0 51.0 76.6



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



#66

1,2-Dibromo-3-chloropropane

Concen: 49.383 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

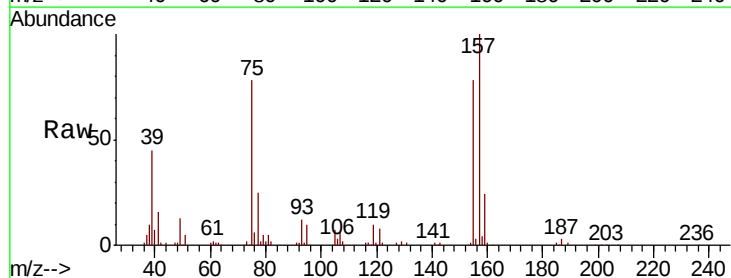
Tgt Ion: 75 Resp: 68651

Ion Ratio Lower Upper

75 100

155 99.1 79.8 119.8

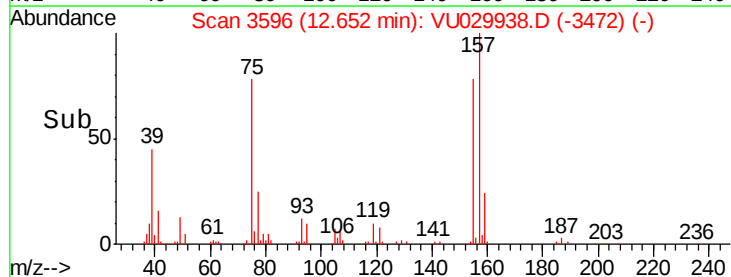
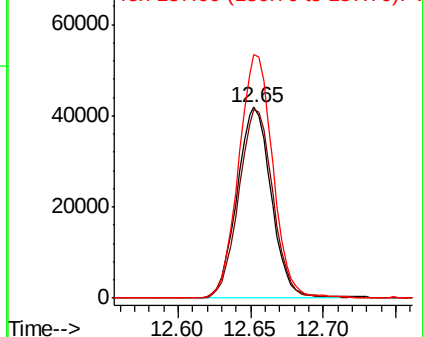
157 127.6 98.8 148.2

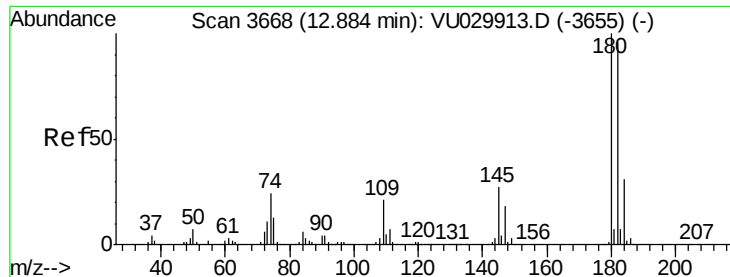


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

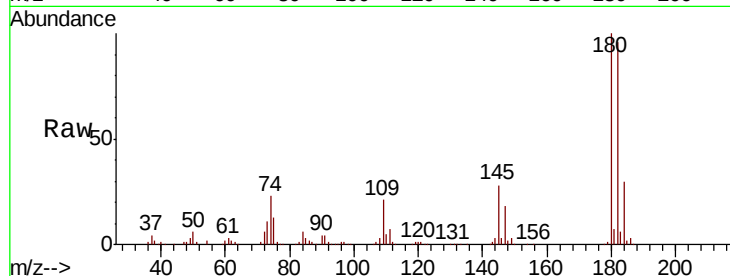




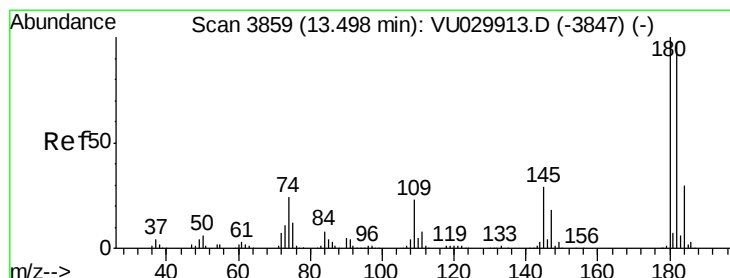
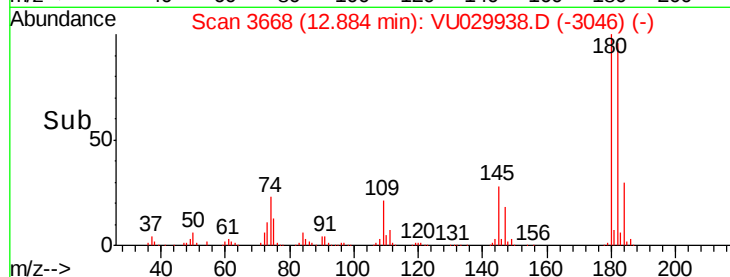
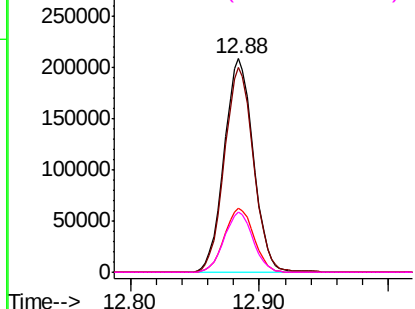
#67
 1,3,5-Trichlorobenzene
 Concen: 49.517 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU029938.D
 Acq: 09 Mar 2019 22:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

Tgt Ion:180 Resp: 326809
 Ion Ratio Lower Upper
 180 100
 182 95.6 76.7 115.1
 184 30.3 24.2 36.4
 145 27.7 22.0 33.0

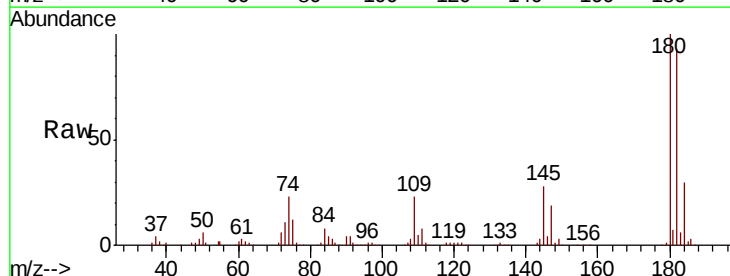


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

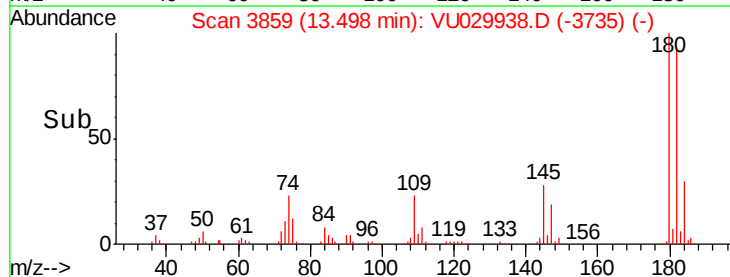
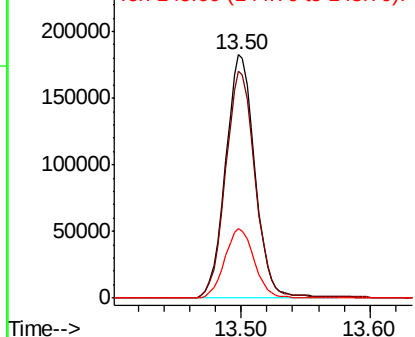


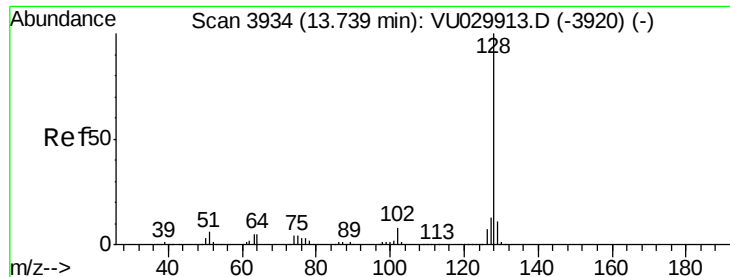
#68
 1,2,4-trichlorobenzene
 Concen: 48.846 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU029938.D
 Acq: 09 Mar 2019 22:17

Tgt Ion:180 Resp: 287604
 Ion Ratio Lower Upper
 180 100
 182 94.7 76.0 114.0
 145 28.9 22.7 34.1



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





#69

Naphthalene

Concen: 49.722 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

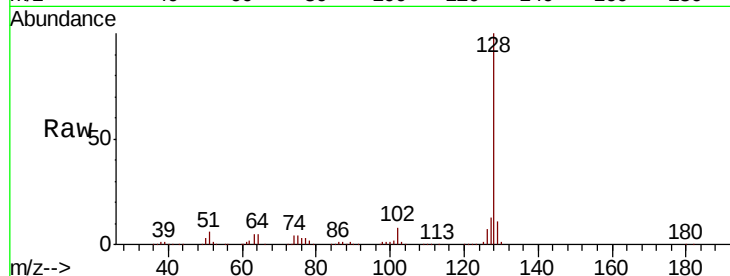
Tgt Ion:128 Resp: 904741

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

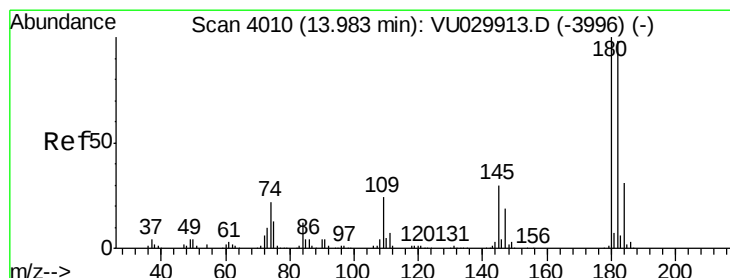
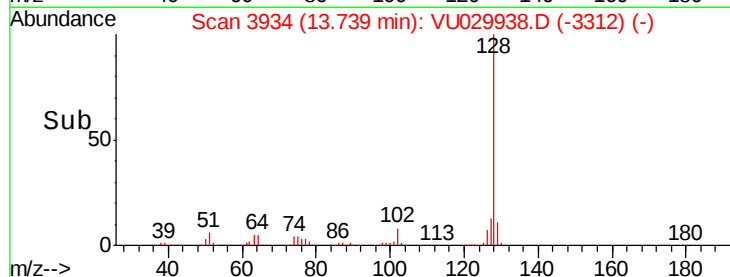
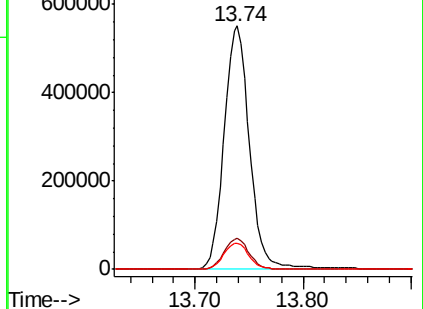
129 10.8 8.7 13.1



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: 48.771 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU029938.D

Acq: 09 Mar 2019 22:17

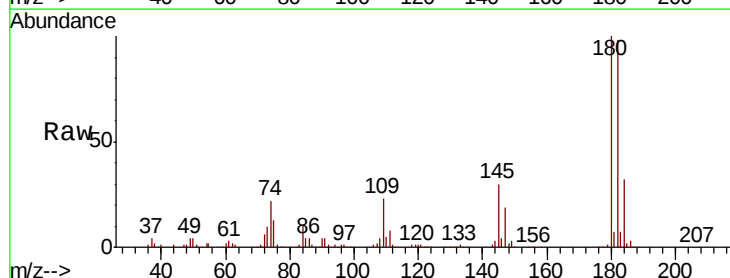
Tgt Ion:180 Resp: 301526

Ion Ratio Lower Upper

180 100

182 97.6 76.3 114.5

145 30.3 24.3 36.5



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

