

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080218\
 Data File : VU025796.D
 Acq On : 02 Aug 2018 14:55
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Quant Time: Aug 03 04:30:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 03 04:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	348256	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	325204	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	181953	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	70419	35.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	70.84%
7) Chloroethane-d5	1.68	69	63959	39.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	78.00%
11) 1,1-Dichloroethene-d2	2.27	63	162586	39.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.56%
21) 2-Butanone-d5	4.18	46	163655	106.62	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.62%
24) Chloroform-d	4.65	84	195080	44.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.10%
26) 1,2-Dichloroethane-d4	5.31	65	131255	44.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.64%
32) Benzene-d6	5.34	84	350998	42.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.16%
36) 1,2-Dichloropropane-d6	6.33	67	117805	43.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.68%
41) Toluene-d8	7.57	98	340436	42.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.12%
43) trans-1,3-Dichloropropene-	7.85	79	61198	44.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.16%
47) 2-Hexanone-d5	8.31	63	116406	103.45	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.45%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	180749	48.09	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.18%
64) 1,2-Dichlorobenzene-d4	11.86	152	155231	42.10	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.20%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.21	85	148746	43.35	ug/L	99
3) Chloromethane	1.33	50	115819	46.74	ug/L	98
5) Vinyl chloride	1.40	62	119626	44.01	ug/L	99
6) Bromomethane	1.63	94	45688	48.34	ug/L	91
8) Chloroethane	1.70	64	71880	44.91	ug/L	99
9) Trichlorofluoromethane	1.89	101	178165	46.03	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	103641	47.82	ug/L	99
12) 1,1-Dichloroethene	2.28	96	90252	45.92	ug/L	93
13) Acetone	2.32	43	160477	89.08	ug/L	95
14) Carbon disulfide	2.48	76	278610	43.53	ug/L	100
15) Methyl Acetate	2.62	43	124946	50.17	ug/L	99
16) Methylene chloride	2.70	84	112790	46.07	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	105899	46.80	ug/L	98
18) Methyl tert-butyl Ether	3.00	73	357224	48.47	ug/L	99
19) 1,1-Dichloroethane	3.45	63	200400	46.56	ug/L	98
20) cis-1,2-Dichloroethene	4.23	96	121941	47.74	ug/L	98
22) 2-Butanone	4.26	43	189181	94.33	ug/L	99

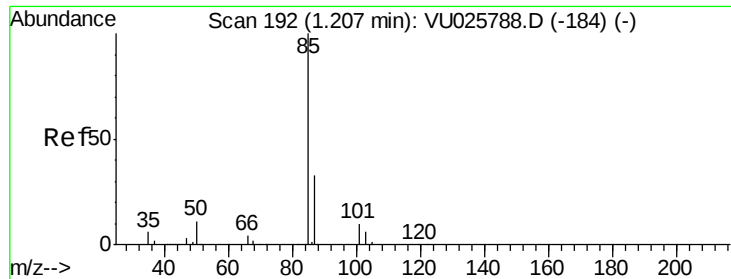
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080218\
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 Quant Title : VOC Analysis
 QLast Update : Fri Aug 03 04:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	64191	47.61	ug/L	98
25) Chloroform	4.68	83	214238	47.30	ug/L	98
27) 1,2-Dichloroethane	5.41	62	173717	47.02	ug/L	99
29) Cyclohexane	5.00	56	174345	46.27	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	192758	47.37	ug/L	99
31) Carbon tetrachloride	5.14	117	173340	46.07	ug/L	99
33) Benzene	5.39	78	437722	46.84	ug/L	100
34) Trichloroethene	6.19	95	120733	48.70	ug/L	98
35) Methylcyclohexane	6.42	83	180824	45.23	ug/L	97
37) 1,2-Dichloropropane	6.44	63	120884	47.34	ug/L	99
38) Bromodichloromethane	6.76	83	162061	48.14	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	191408	48.30	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	342532	102.15	ug/L	99
42) Toluene	7.64	91	485129	48.14	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	187696	50.24	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	116951	47.75	ug/L	99
46) Tetrachloroethene	8.23	164	105417	49.05	ug/L	99
48) 2-Hexanone	8.36	43	277715	98.01	ug/L	99
49) Dibromochloromethane	8.48	129	140573	48.93	ug/L	99
50) 1,2-Dibromoethane	8.59	107	128300	48.62	ug/L	99
51) Chlorobenzene	9.12	112	333560	49.17	ug/L	100
52) Ethylbenzene	9.25	91	550636	49.51	ug/L	98
53) m,p-Xylene	9.38	106	214366	50.32	ug/L	99
54) o-xylene	9.78	106	209335	48.43	ug/L	97
55) Styrene	9.80	104	363277	51.60	ug/L	100
56) Isopropylbenzene	10.17	105	552609	49.54	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	190181	48.14	ug/L	97
59) 1,2,3-Trichloropropane	10.50	75	144246	48.10	ug/L	100
61) Bromoform	9.96	173	107443	45.65	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	277984	48.30	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	287386	48.92	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	289593	48.03	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	44912	47.36	ug/L	95
67) 1,3,5-Trichlorobenzene	12.89	180	208587	46.95	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	191202	51.21	ug/L	98
69) Naphthalene	13.74	128	569174	50.69	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	190224	48.19	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 43.35 ug/L

RT: 1.21 min Scan# 192

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Instrument :

MSVOA_U

ClientSampleId :

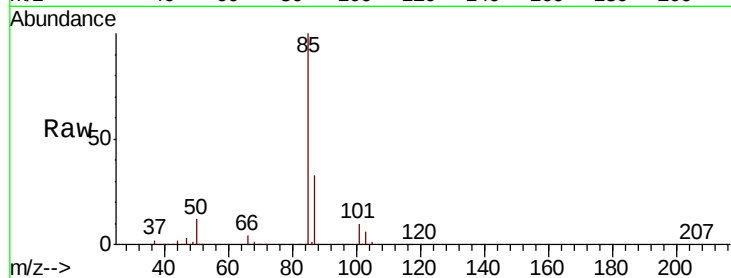
VSTD05048

Tot Ion: 85 Resp: 148746

Ion Ratio Lower Upper

85 100

87 32.4 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU025788.D (-184) (-)

Ion 87.00 (86.70 to 87.70): VU025788.D (-184) (-)

1.21

150000

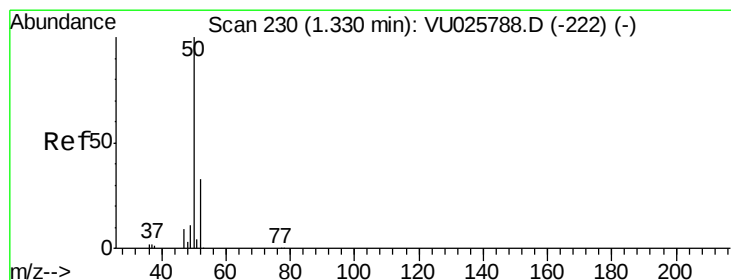
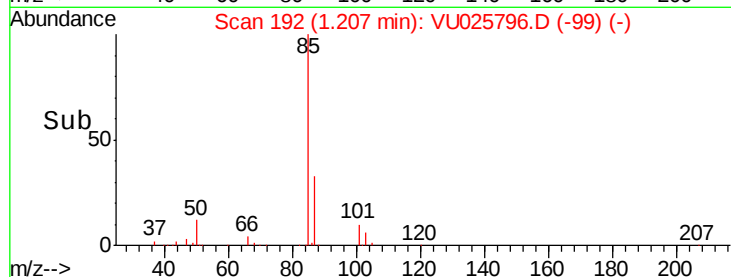
100000

50000

0

1.15 1.20 1.25 1.30

Time-->



#3

Chloromethane

Concen: 46.74 ug/L

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025796.D

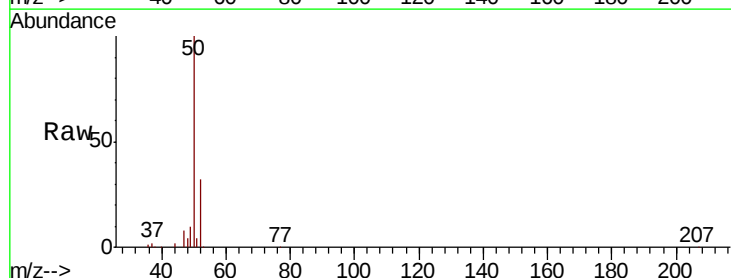
Acq: 02 Aug 2018 14:55

Tgt Ion: 50 Resp: 115819

Ion Ratio Lower Upper

50 100

52 32.2 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU025788.D (-222) (-)

Ion 52.00 (51.70 to 52.70): VU025788.D (-222) (-)

1.33

120000

100000

80000

60000

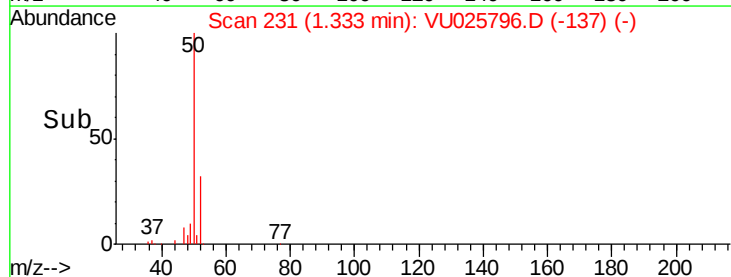
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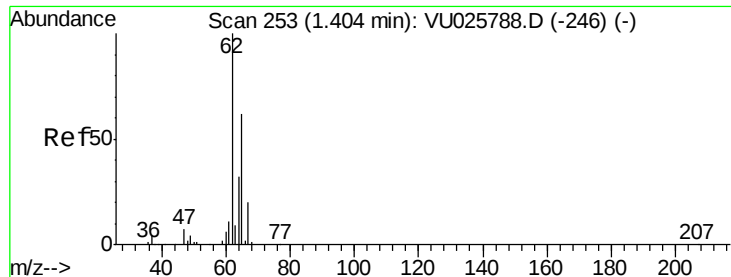
20000

0

1.30 1.35 1.40

Time-->





#5

Vinyl chloride

Concen: 44.01 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Instrument :

MSVOA_U

ClientSampleId :

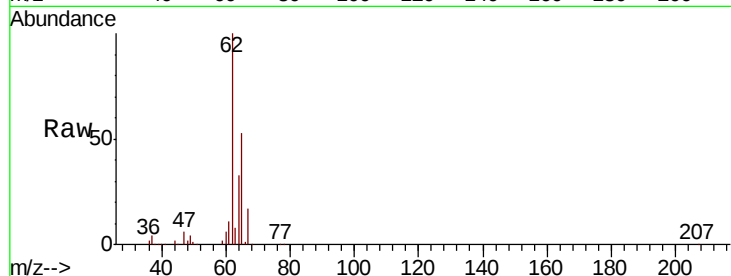
VSTD05048

Tot Ion: 62 Resp: 119626

Ion Ratio Lower Upper

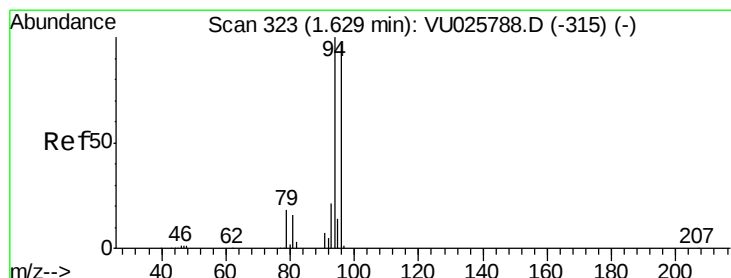
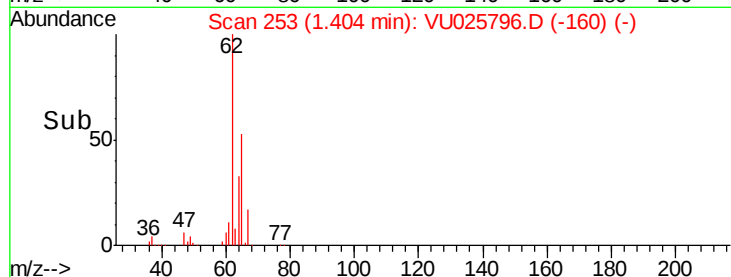
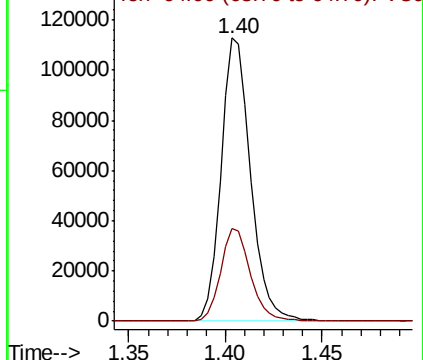
62 100

64 32.8 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 48.34 ug/L

RT: 1.63 min Scan# 323

Delta R.T. -0.00 min

Lab File: VU025796.D

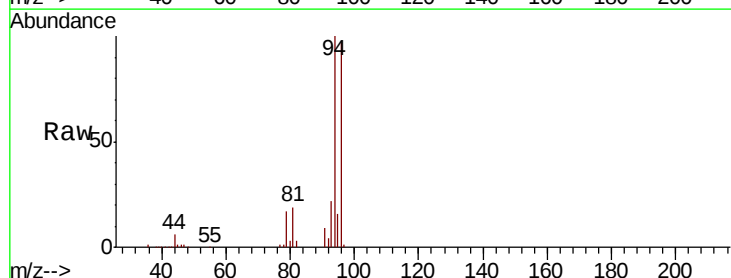
Acq: 02 Aug 2018 14:55

Tgt Ion: 94 Resp: 45688

Ion Ratio Lower Upper

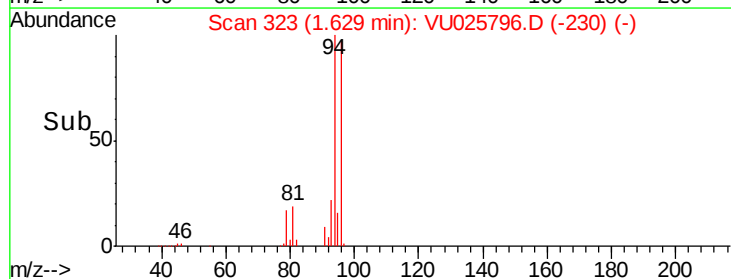
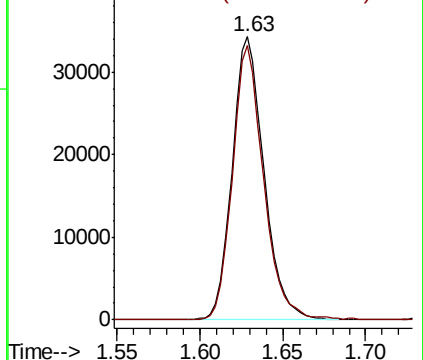
94 100

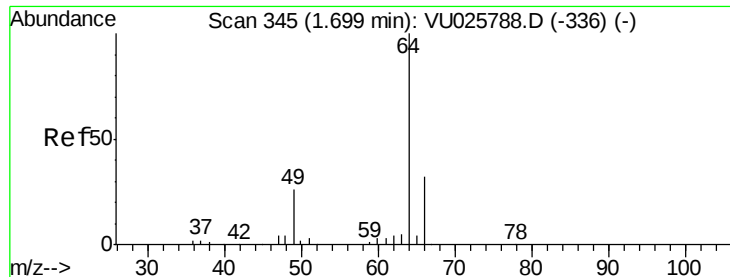
96 97.1 62.4 115.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 44.91 ug/L

RT: 1.70 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Instrument :

MSVOA_U

ClientSampleId :

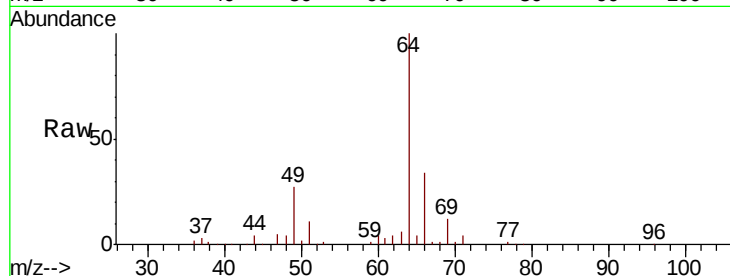
VSTD05048

Tot Ion: 64 Resp: 71880

Ion Ratio Lower Upper

64 100

66 33.9 23.5 43.7



Abundance Ion 64.00 (63.70 to 64.70): VU025788.D (-336) (-)

Ion 66.00 (65.70 to 66.70): VU025788.D (-336) (-)

1.70

60000

50000

40000

30000

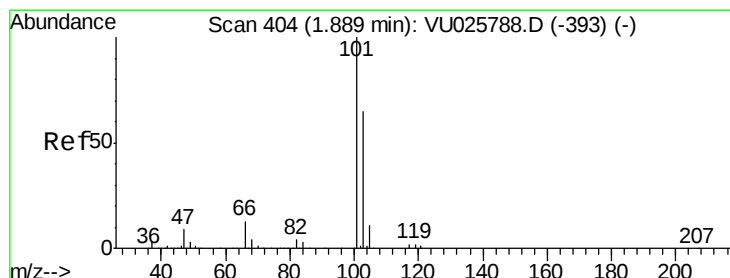
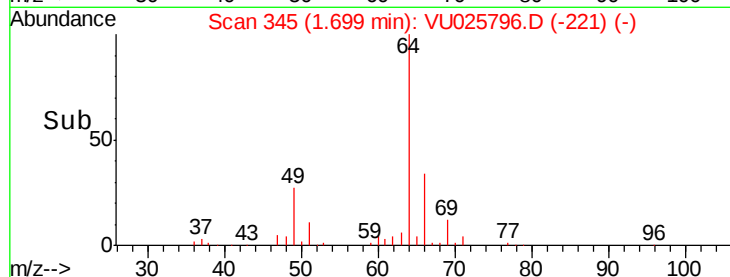
20000

10000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 46.03 ug/L

RT: 1.89 min Scan# 403

Delta R.T. -0.00 min

Lab File: VU025796.D

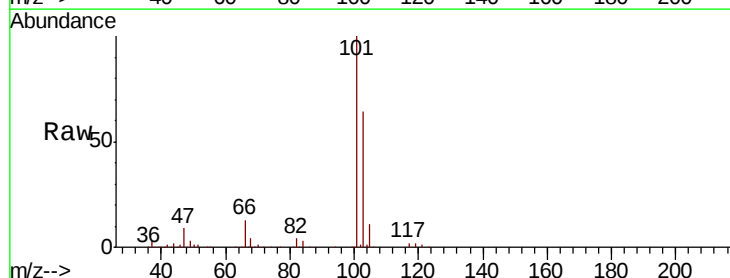
Acq: 02 Aug 2018 14:55

Tgt Ion:101 Resp: 178165

Ion Ratio Lower Upper

101 100

103 64.1 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): VU025788.D (-393) (-)

Ion 103.00 (102.70 to 103.70): VU025788.D (-393) (-)

1.89

150000

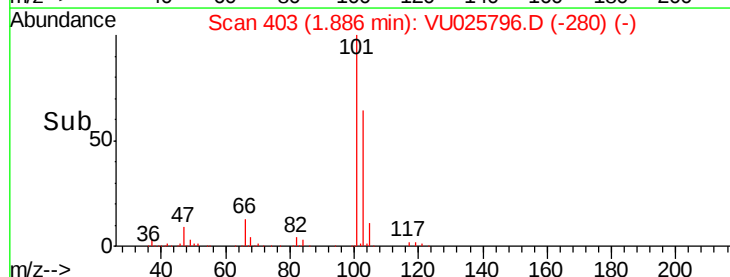
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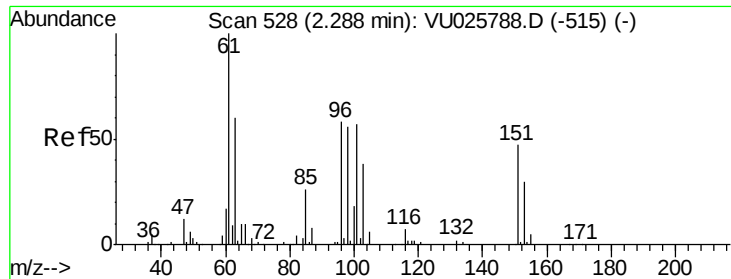
50000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 47.82 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

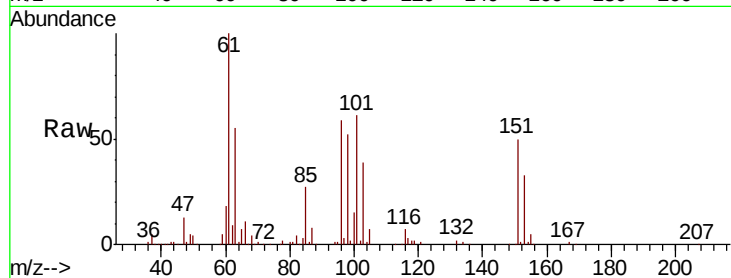
Tot Ion:101 Resp: 103641

Ion Ratio Lower Upper

101 100

85 44.6 35.5 53.3

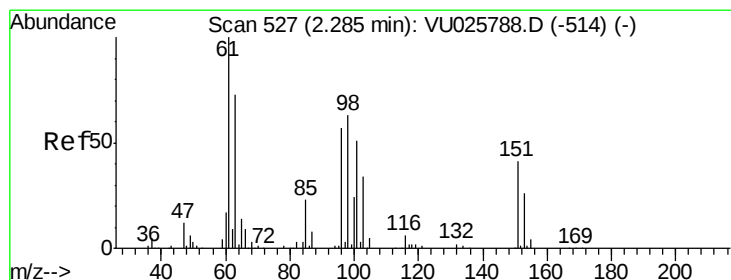
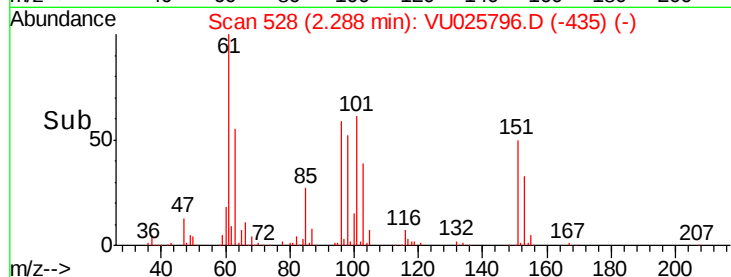
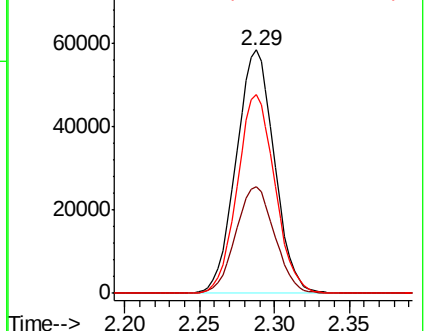
151 80.4 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 45.92 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

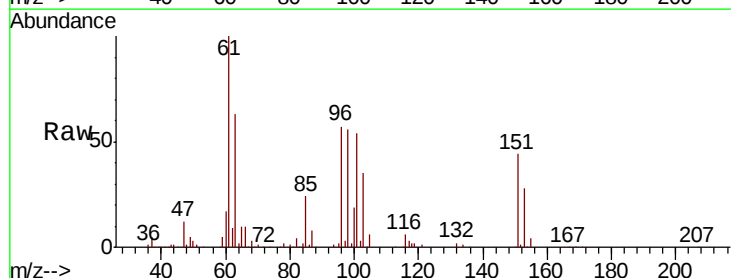
Tgt Ion: 96 Resp: 90252

Ion Ratio Lower Upper

96 100

61 175.5 122.5 227.5

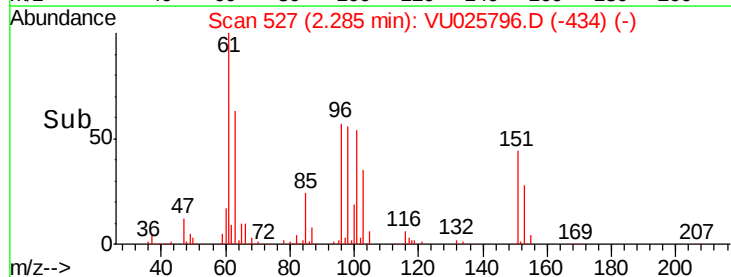
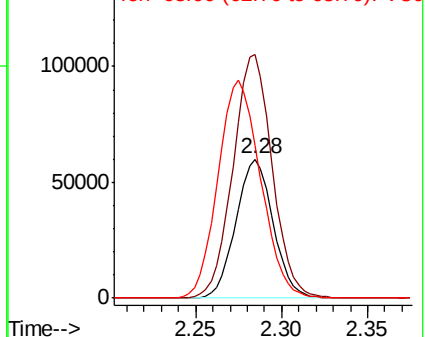
63 110.0 90.9 168.9

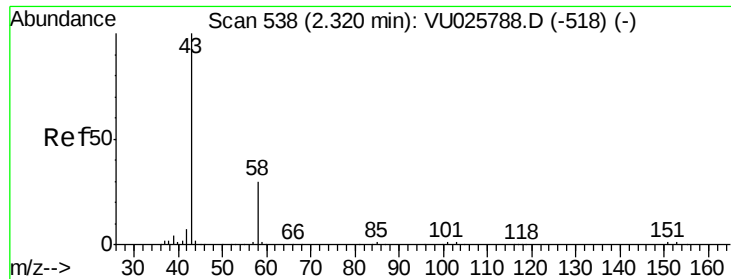


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 89.08 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Instrument :

MSVOA_U

ClientSampleId :

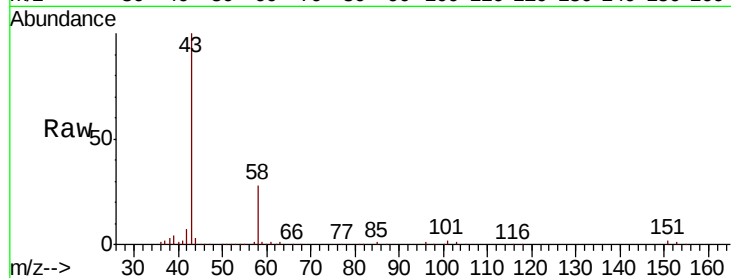
VSTD05048

Tot Ion: 43 Resp: 160477

Ion Ratio Lower Upper

43 100

58 28.1 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU025788.D (-518) (-)

Ion 58.00 (57.70 to 58.70): VU025788.D (-518) (-)

2.32

100000

80000

60000

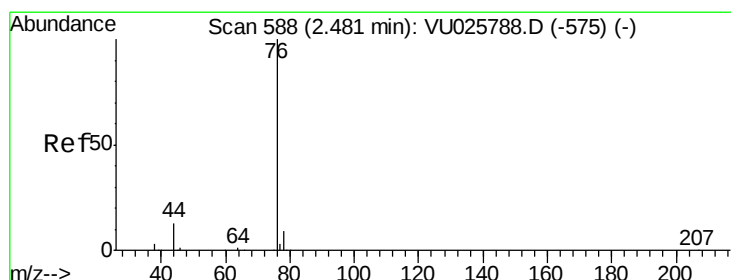
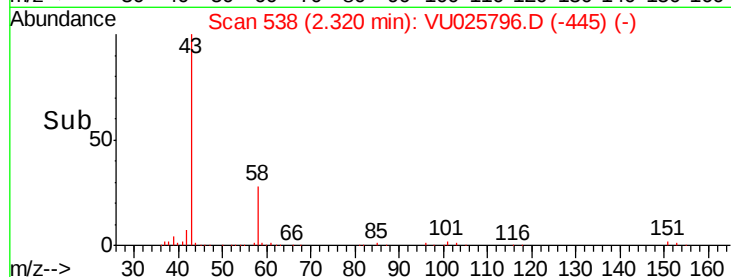
40000

20000

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Time-->

2.20 2.30 2.40



#14

Carbon disulfide

Concen: 43.53 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU025796.D

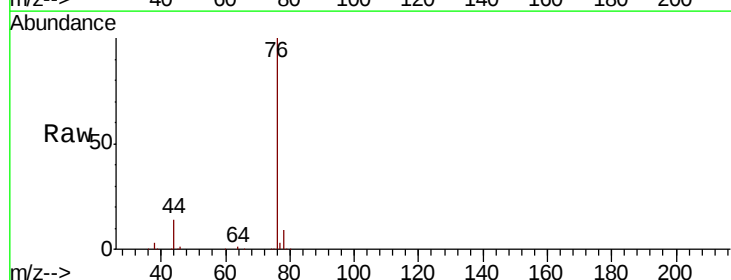
Acq: 02 Aug 2018 14:55

Tgt Ion: 76 Resp: 278610

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU025788.D (-575) (-)

Ion 78.00 (77.70 to 78.70): VU025788.D (-575) (-)

2.48

200000

150000

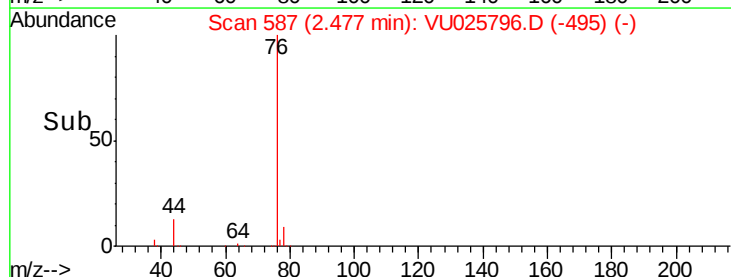
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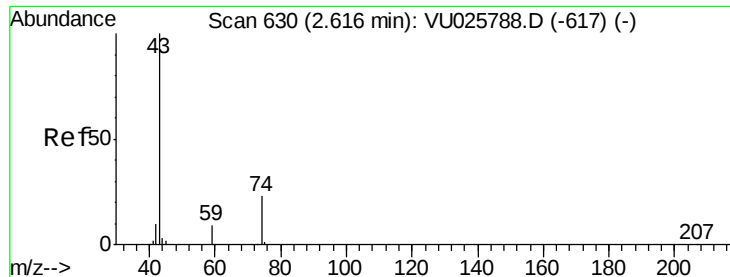
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Time-->

2.40 2.45 2.50 2.55 2.60





#15

Methvl Acetate

Concen: 50.17 ug/L

RT: 2.62 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Instrument :

MSVOA_U

ClientSampleId :

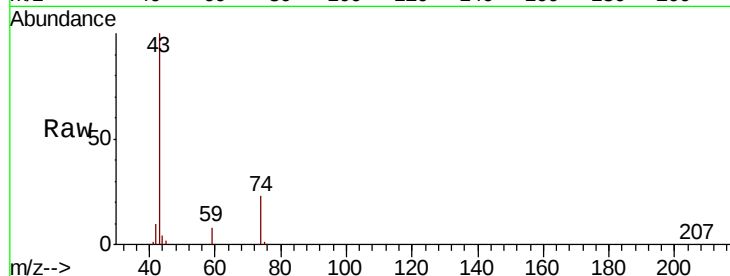
VSTD05048

Tot Ion: 43 Resp: 124946

Ion Ratio Lower Upper

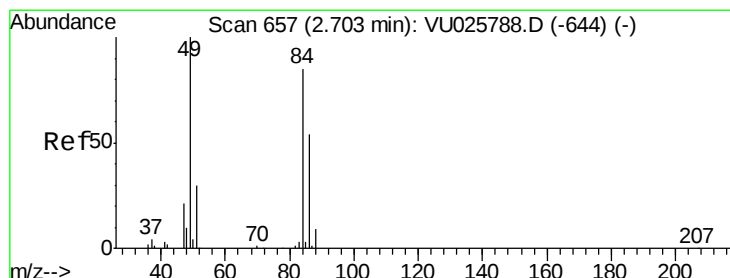
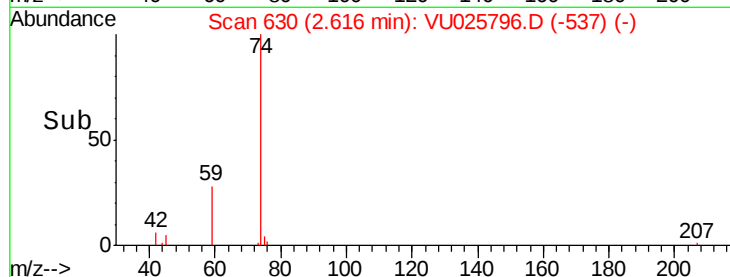
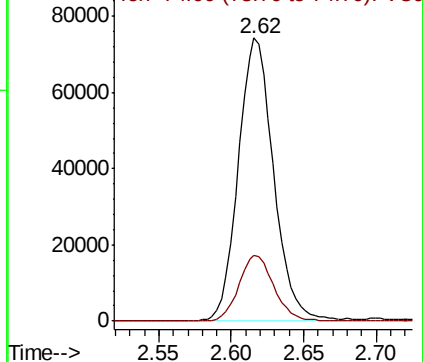
43 100

74 23.1 18.3 27.5



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 46.07 ug/L

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

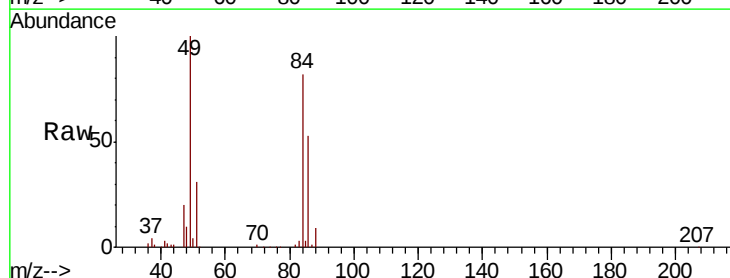
Tgt Ion: 84 Resp: 112790

Ion Ratio Lower Upper

84 100

86 64.7 45.6 84.6

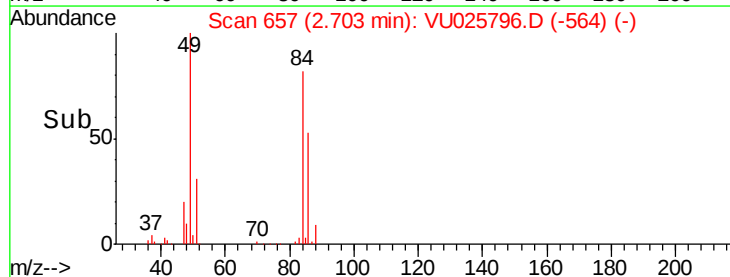
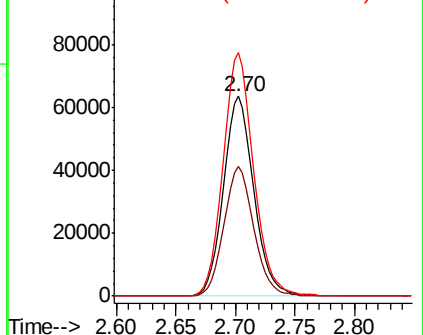
49 122.0 87.0 161.6

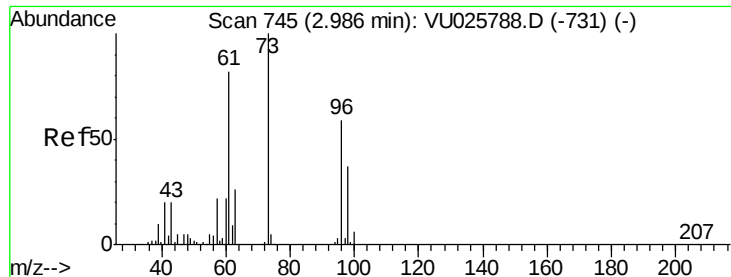


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 46.80 ug/L

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

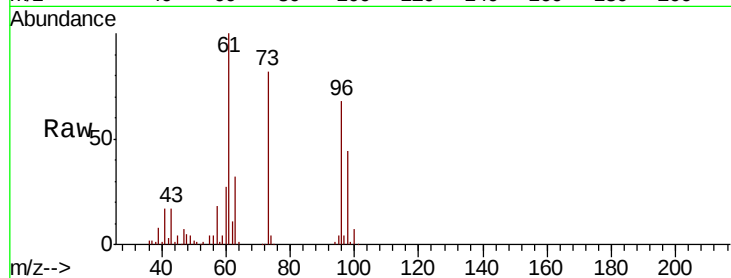
Tot Ion: 96 Resp: 105899

Ion Ratio Lower Upper

96 100

61 146.0 100.0 185.8

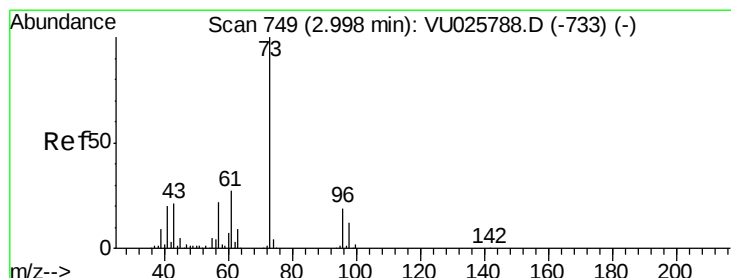
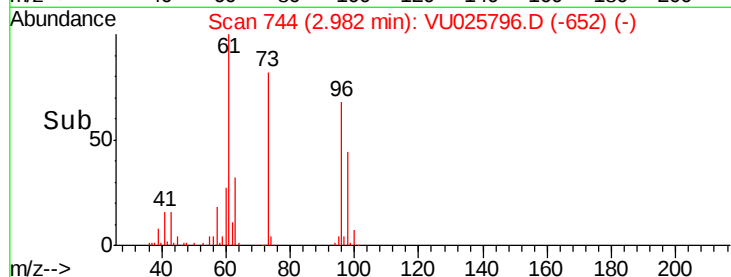
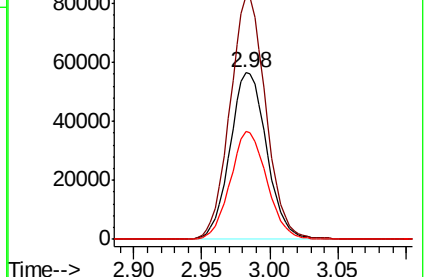
98 64.5 44.7 83.1



Abundance Ion 96.00 (95.70 to 96.70): VU025788.D (-731) (-)

Ion 61.00 (60.70 to 61.70): VU025788.D (-731) (-)

Ion 98.00 (97.70 to 98.70): VU025788.D (-731) (-)



#18

Methyl tert-butyl Ether

Concen: 48.47 ug/L

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

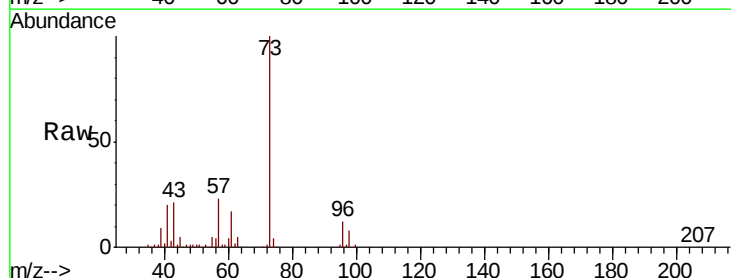
Tgt Ion: 73 Resp: 357224

Ion Ratio Lower Upper

73 100

43 20.6 16.2 24.2

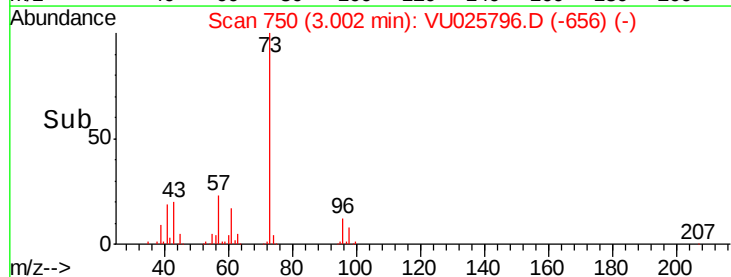
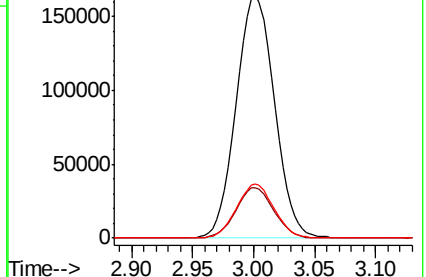
57 21.8 17.1 25.7

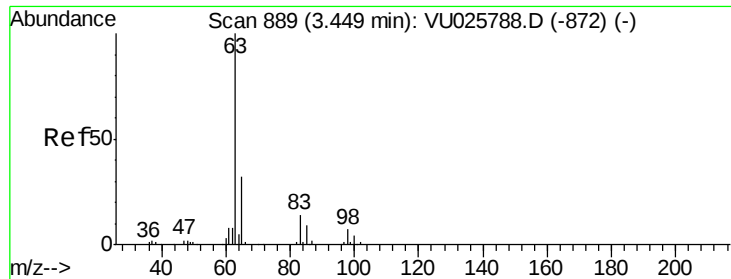


Abundance Ion 73.00 (72.70 to 73.70): VU025788.D (-733) (-)

Ion 43.00 (42.70 to 43.70): VU025788.D (-733) (-)

Ion 57.00 (56.70 to 57.70): VU025788.D (-733) (-)

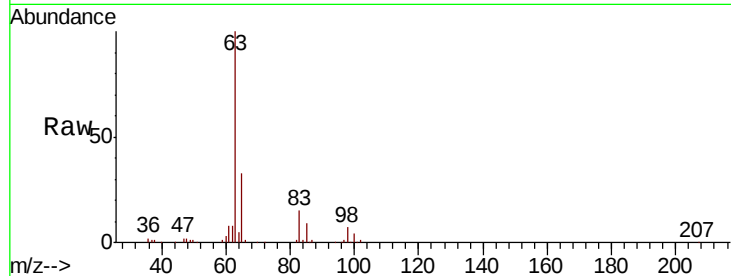




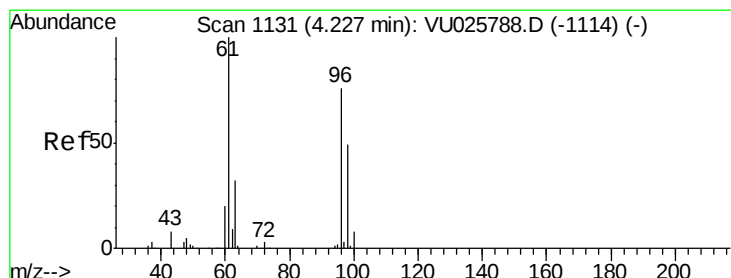
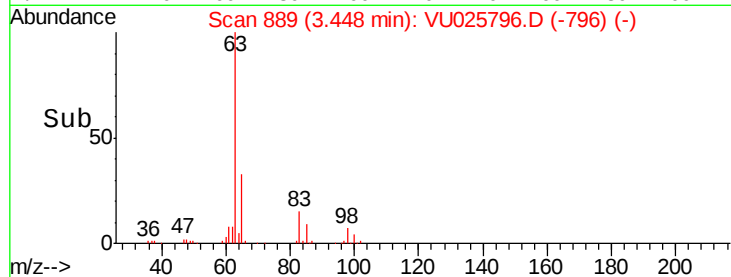
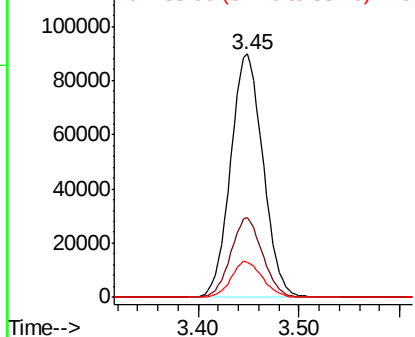
#19
 1,1-Dichloroethane
 Concen: 46.56 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.8	22.0	41.0
83	14.6	9.6	17.8

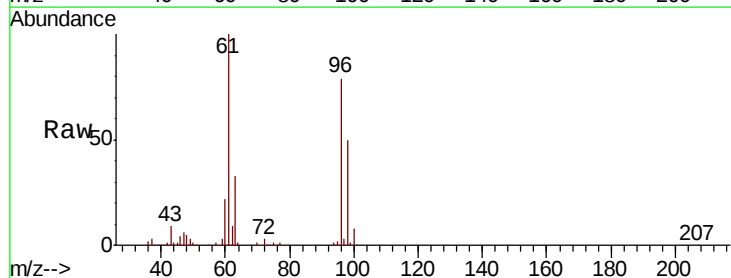


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

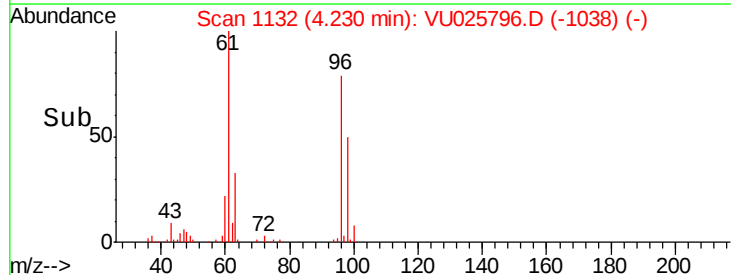
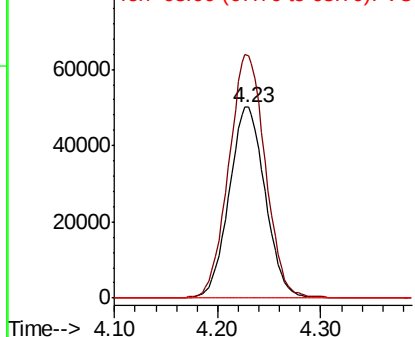


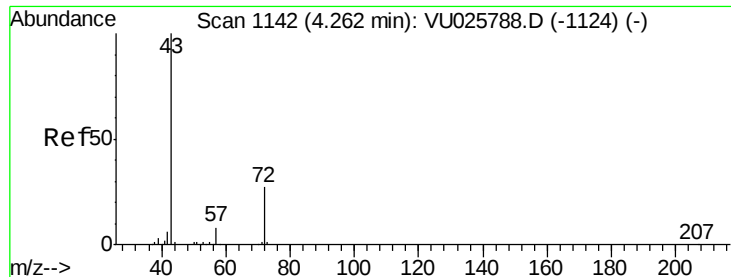
#20
 cis-1,2-Dichloroethene
 Concen: 47.74 ug/L
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	126.9	87.4	162.2
68	0.0	0.0	0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 94.33 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

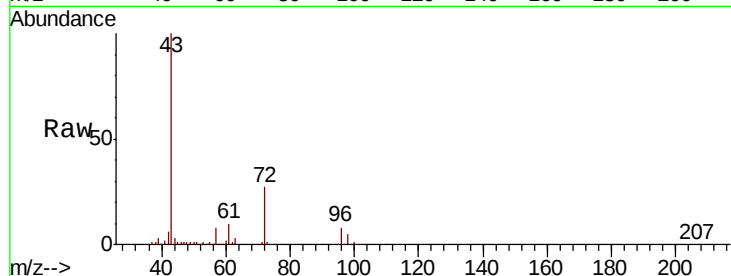
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tot Ion: 43 Resp: 189181

Ion Ratio Lower Upper

43 100

72 27.5 13.6 40.8



Abundance Ion 43.00 (42.70 to 43.70): VU025788.D (-1124) (-)

Ion 72.00 (71.70 to 72.70): VU025788.D (-1124) (-)

4.26

80000

60000

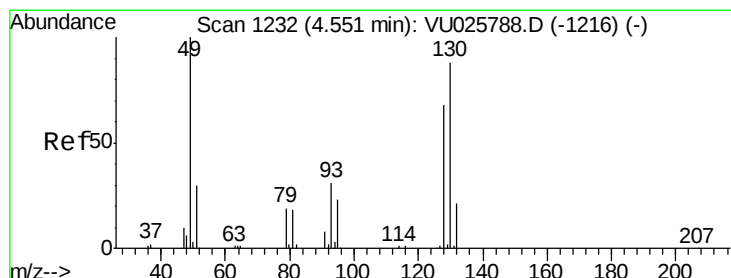
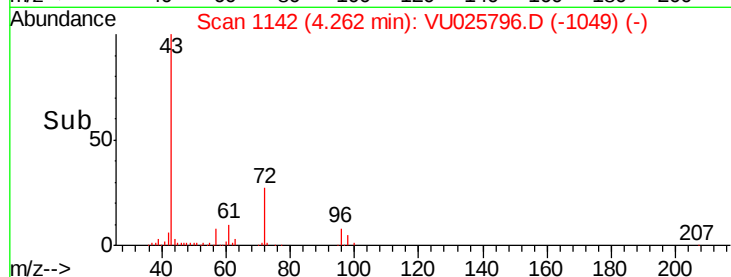
40000

20000

0

4.15 4.20 4.25 4.30 4.35

Time-->



#23

Bromochloromethane

Concen: 47.61 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Tgt Ion: 128 Resp: 64191

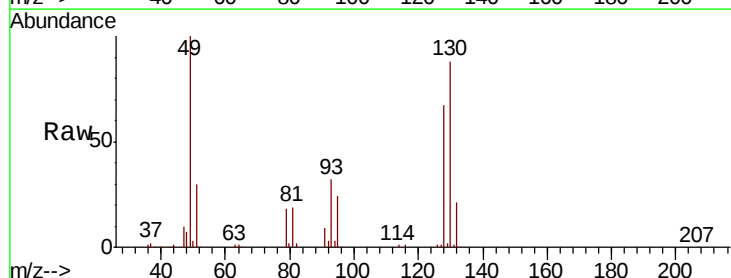
Ion Ratio Lower Upper

128 100

49 149.1 103.3 191.8

130 131.5 90.4 167.8

51 45.3 35.5 53.3



Abundance Ion 128.00 (127.70 to 128.70): VU025788.D (-1216) (-)

Ion 49.00 (48.70 to 49.70): VU025788.D (-1216) (-)

Ion 130.00 (129.70 to 130.70): VU025788.D (-1216) (-)

Ion 51.00 (50.70 to 51.70): VU025788.D (-1216) (-)

60000

50000

40000

30000

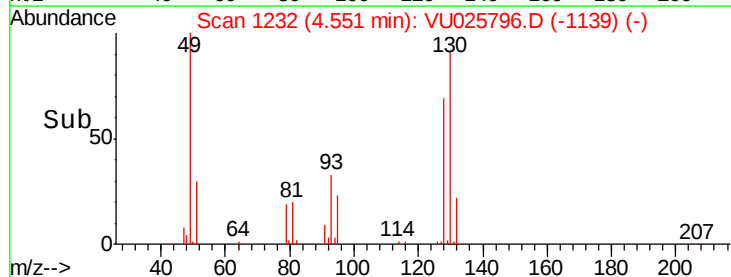
20000

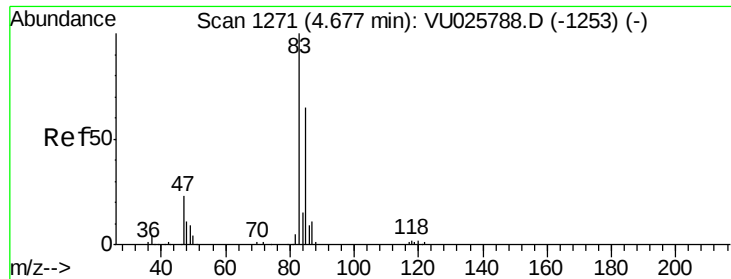
10000

0

4.45 4.50 4.55 4.60 4.65

Time-->

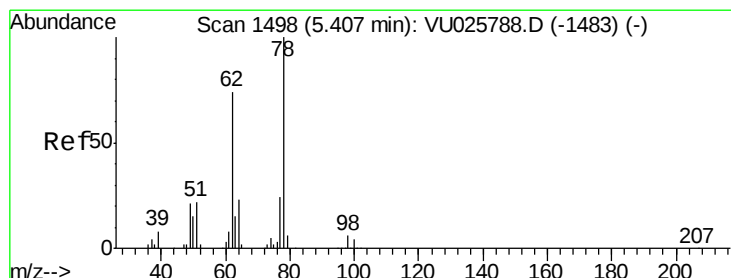
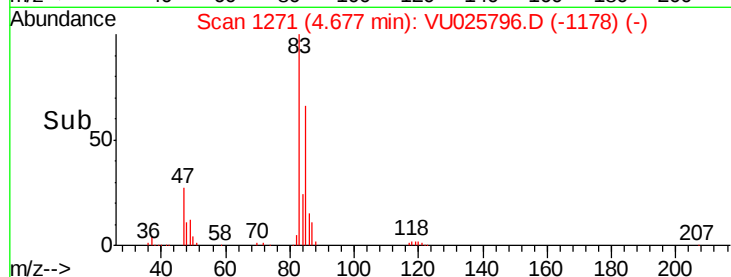
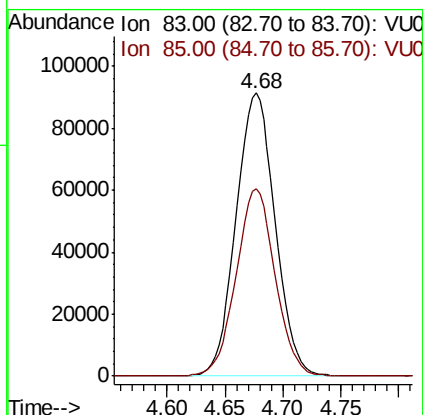
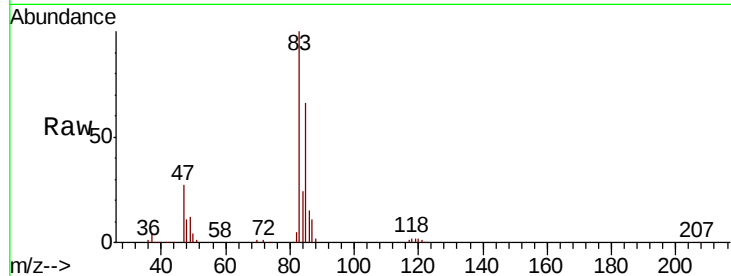




#25
Chloroform
Concen: 47.30 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU025796.D
Acq: 02 Aug 2018 14:55

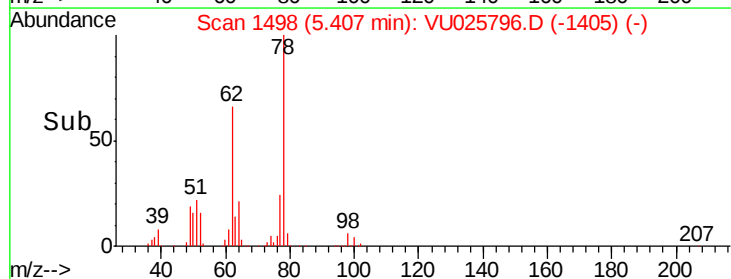
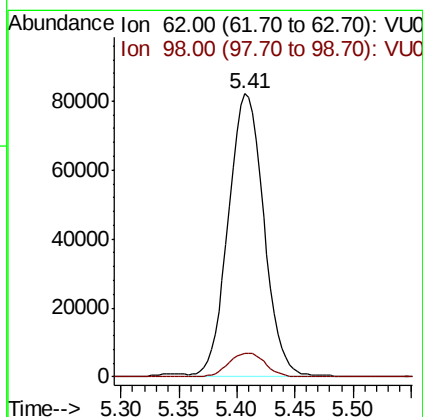
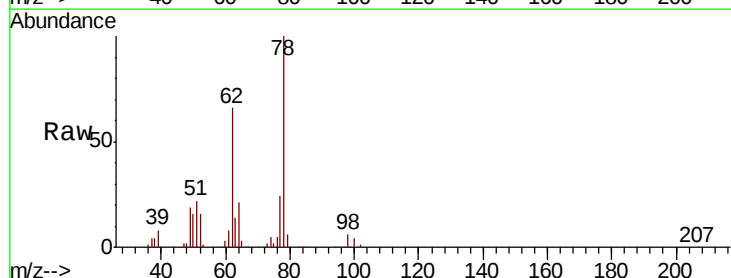
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

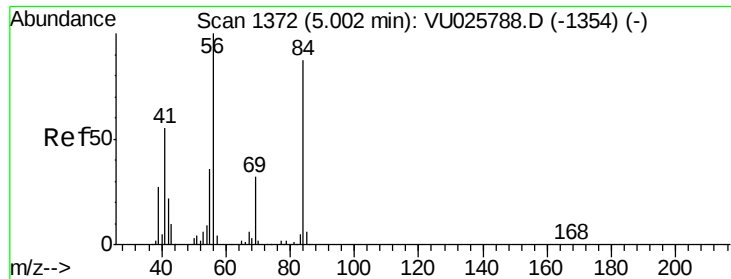
Tot Ion: 83 Resp: 214238
Ion Ratio Lower Upper
83 100
85 66.2 45.0 83.6



#27
1,2-Dichloroethane
Concen: 47.02 ug/L
RT: 5.41 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VU025796.D
Acq: 02 Aug 2018 14:55

Tgt Ion: 62 Resp: 173717
Ion Ratio Lower Upper
62 100
98 8.5 6.5 9.7

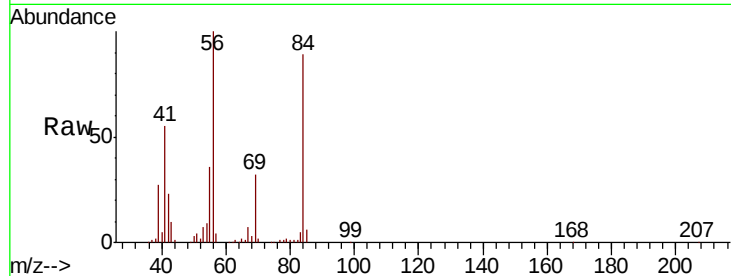




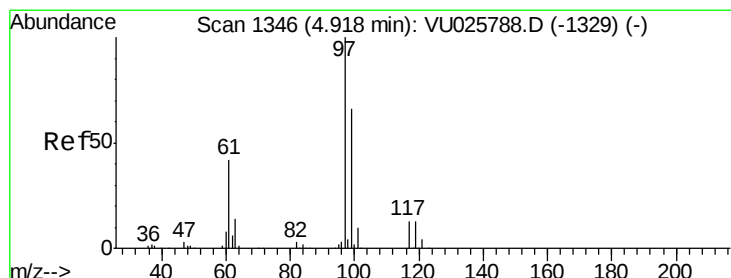
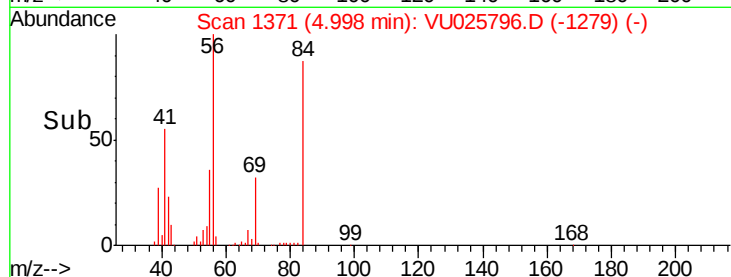
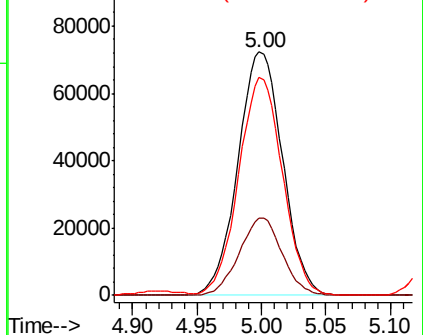
#29
Cyclohexane
Concen: 46.27 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU025796.D
Acq: 02 Aug 2018 14:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tot Ion: 56 Resp: 174345
Ion Ratio Lower Upper
56 100
69 30.6 24.8 37.2
84 87.8 70.6 106.0

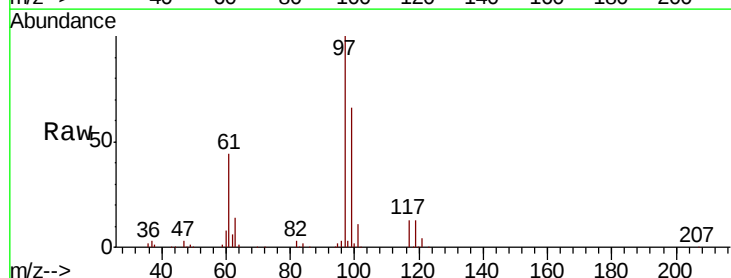


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

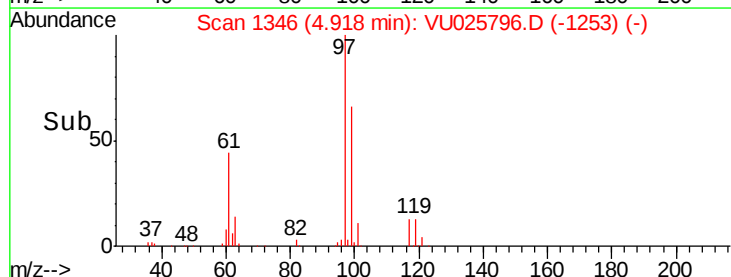
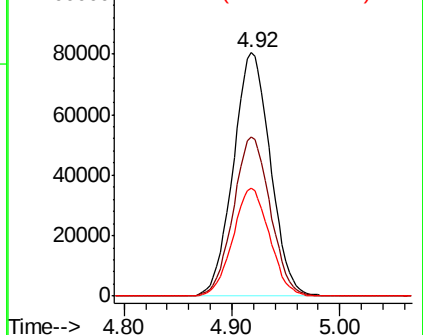


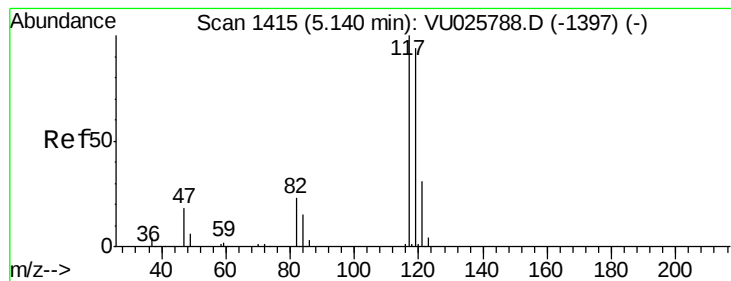
#30
1,1,1-Trichloroethane
Concen: 47.37 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VU025796.D
Acq: 02 Aug 2018 14:55

Tgt Ion: 97 Resp: 192758
Ion Ratio Lower Upper
97 100
99 65.1 52.4 78.6
61 43.8 34.6 52.0



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





#31

Carbon tetrachloride

Concen: 46.07 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Instrument :

MSVOA_U

ClientSampleId :

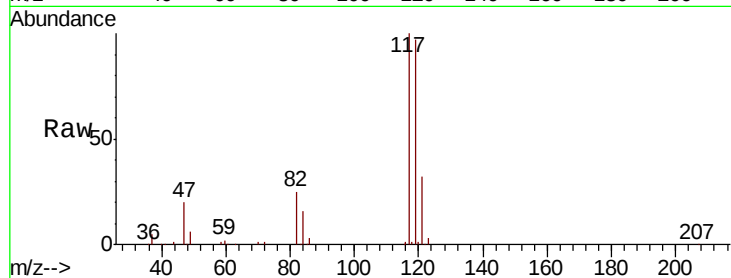
VSTD05048

Tot Ion:117 Resp: 173340

Ion Ratio Lower Upper

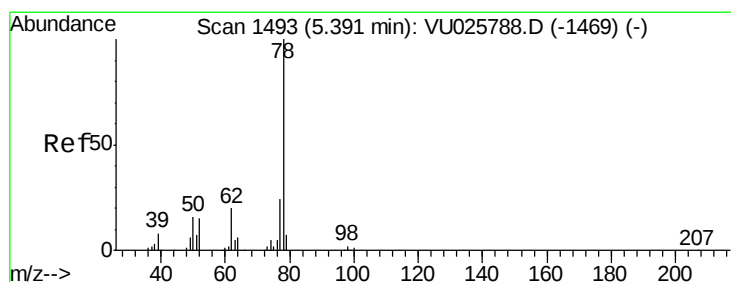
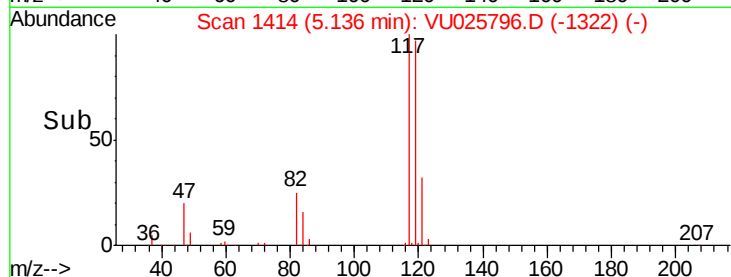
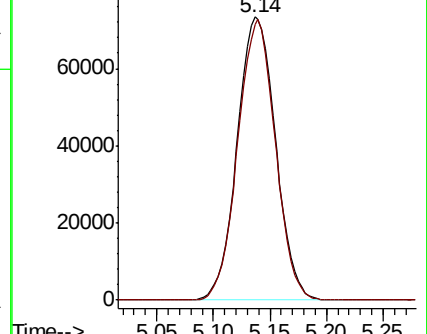
117 100

119 96.7 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 46.84 ug/L

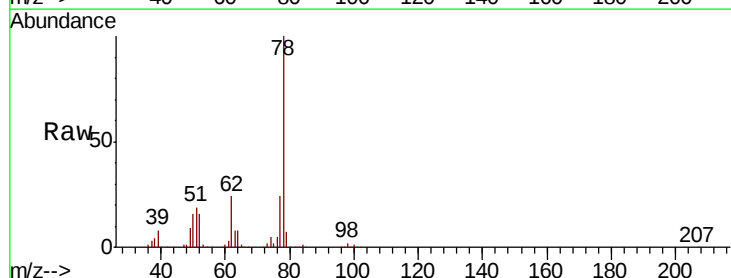
RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

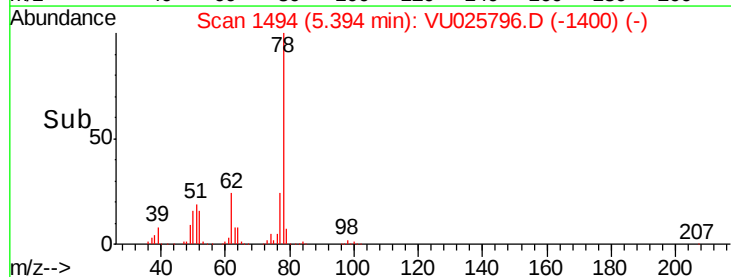
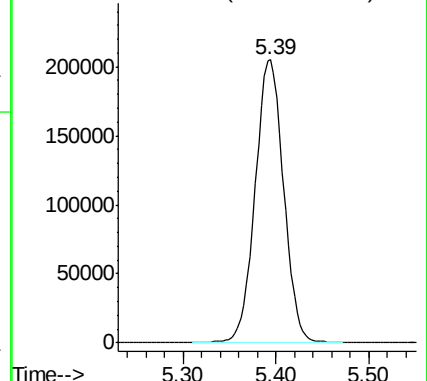
Lab File: VU025796.D

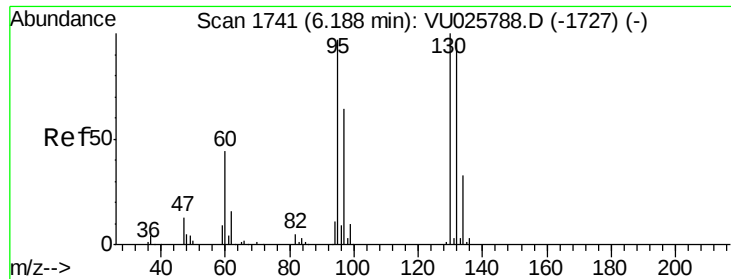
Acq: 02 Aug 2018 14:55

Tgt Ion: 78 Resp: 437722



Abundance Ion 78.00 (77.70 to 78.70): VU0

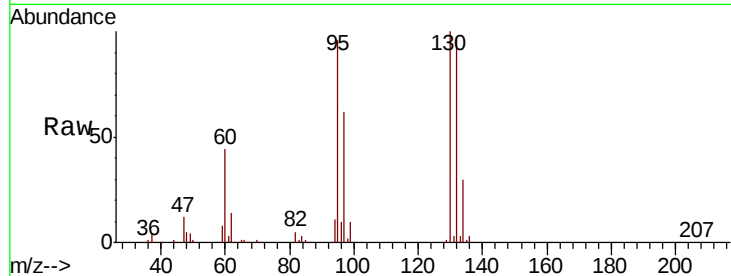




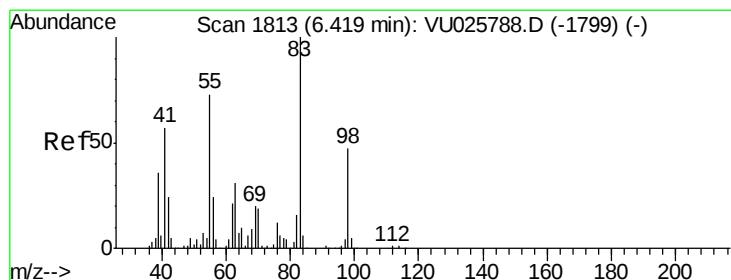
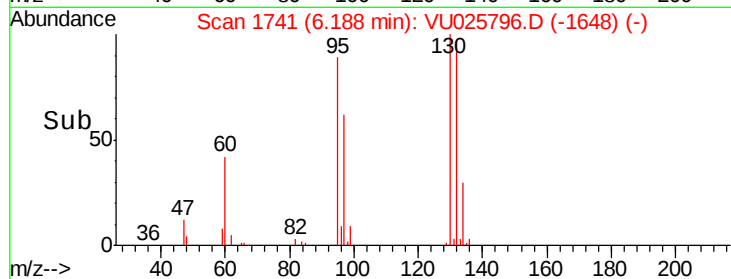
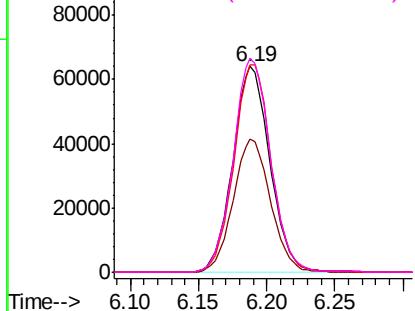
#34
 Trichloroethene
 Concen: 48.70 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tot Ion:	95	Resp:	120733
Ion	Ratio	Lower	Upper
95	100		
97	64.8	45.9	85.3
132	100.8	72.2	134.2
130	103.9	74.9	139.1

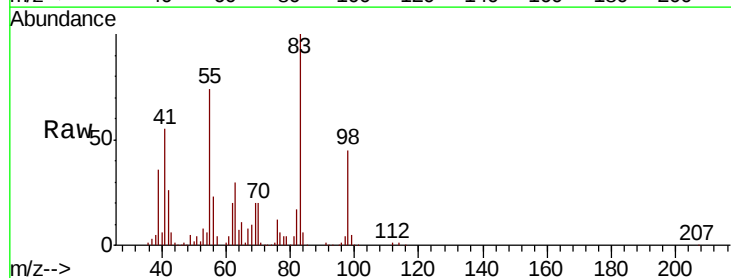


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

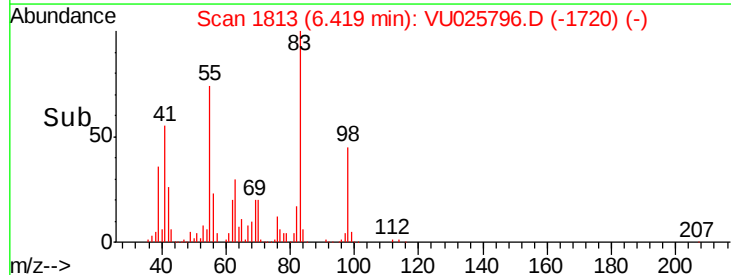
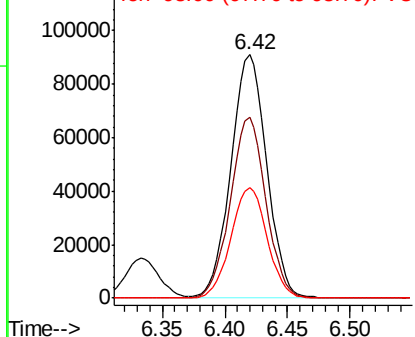


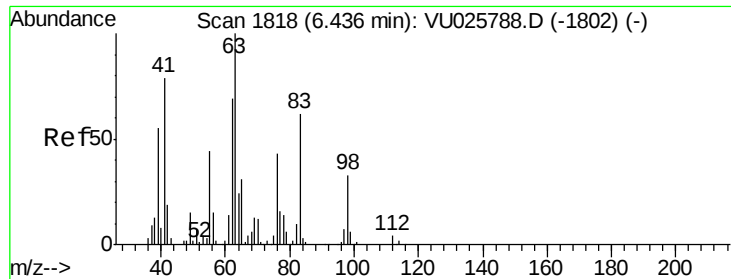
#35
 Methylcyclohexane
 Concen: 45.23 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

Tgt Ion:	83	Resp:	180824
Ion	Ratio	Lower	Upper
83	100		
55	73.6	61.1	91.7
98	46.0	38.6	57.8



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

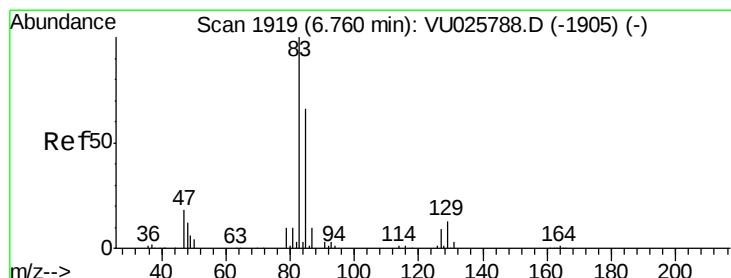
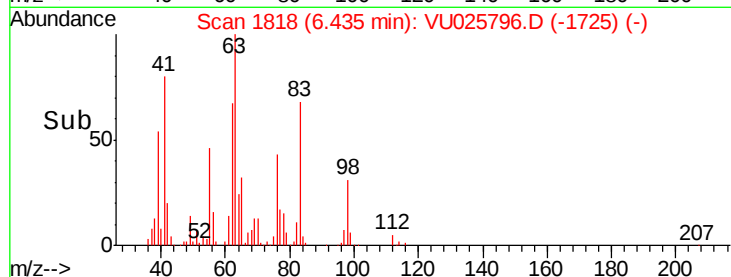
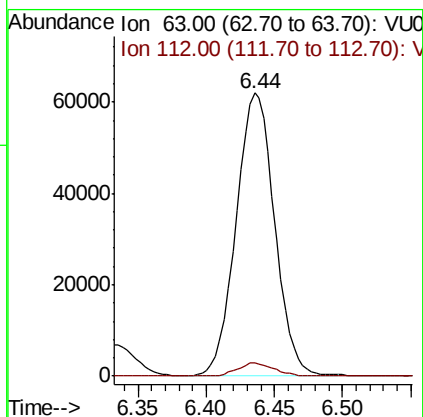
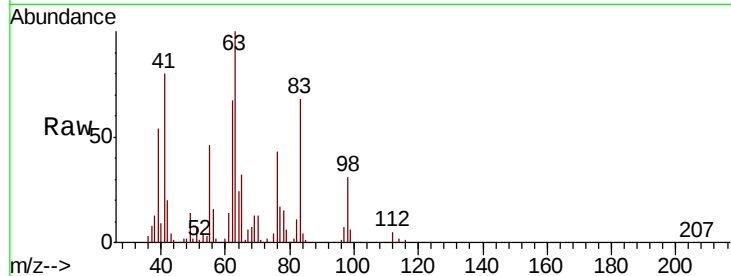




#37
 1,2-Dichloropropane
 Concen: 47.34 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

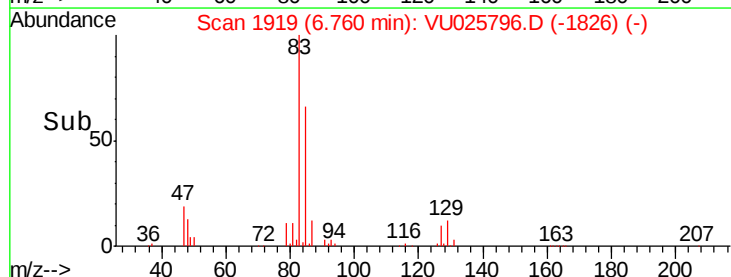
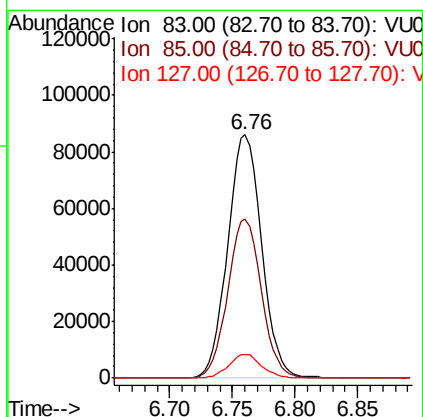
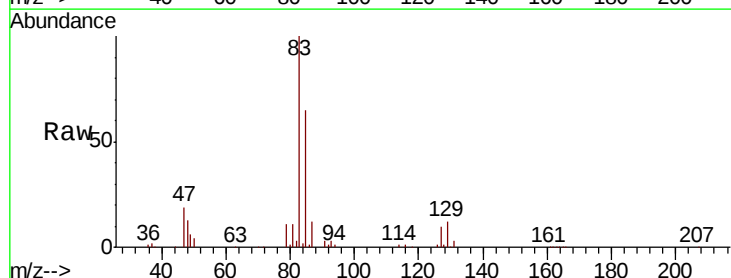
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

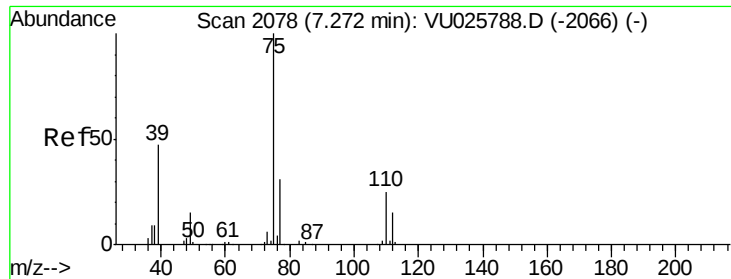
Tot Ion: 63 Resp: 120884
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.3 4.9



#38
 Bromodichloromethane
 Concen: 48.14 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

Tgt Ion: 83 Resp: 162061
 Ion Ratio Lower Upper
 83 100
 85 65.3 46.7 86.7
 127 9.9 8.0 12.0

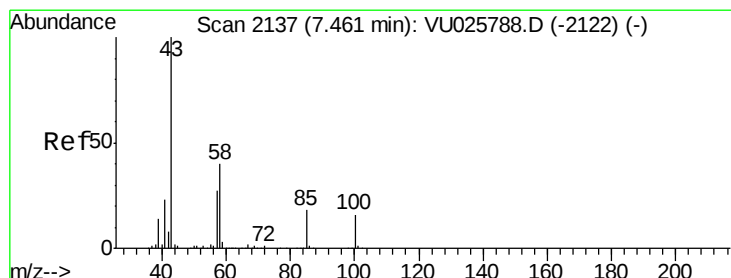
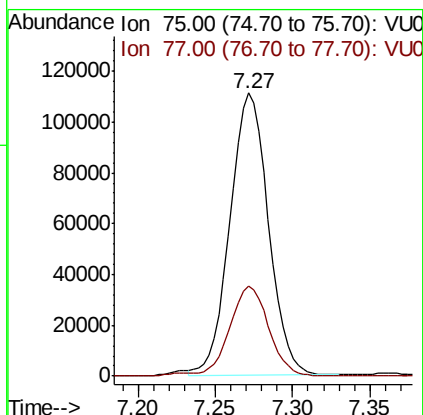
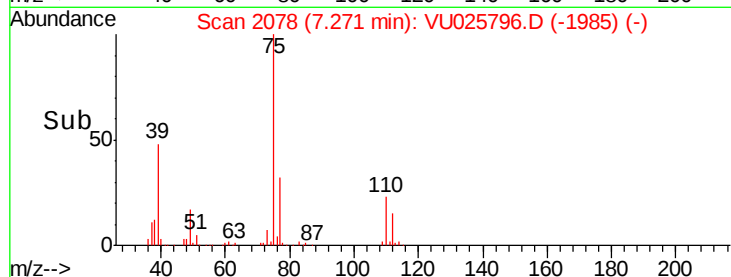
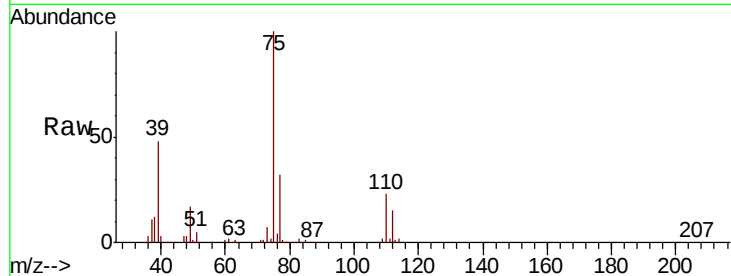




#39
 cis-1,3-Dichloropropene
 Concen: 48.30 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

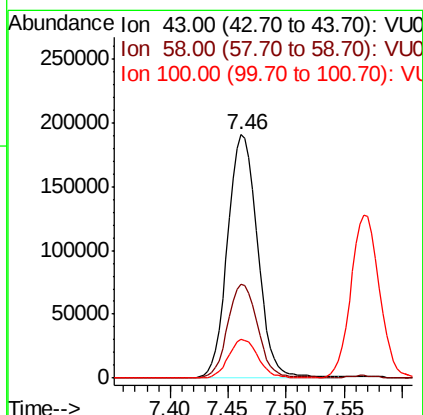
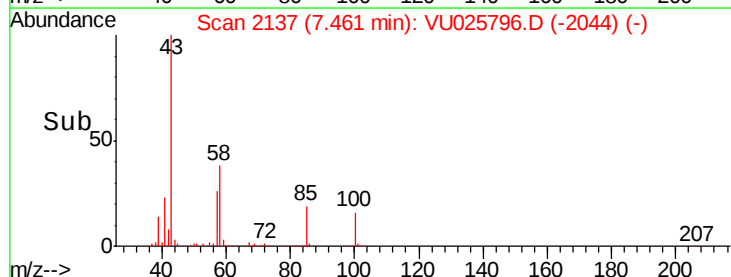
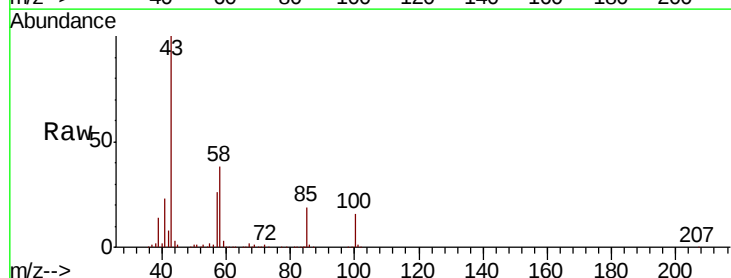
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

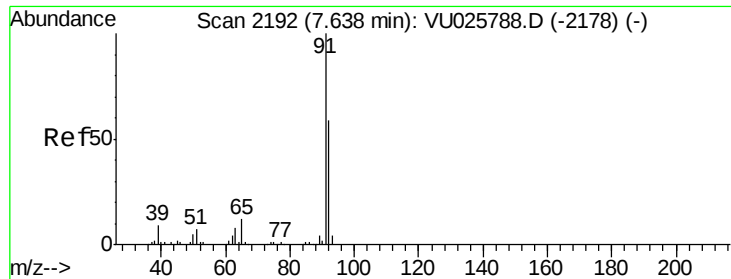
Tot Ion: 75 Resp: 191408
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 102.15 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

Tgt Ion: 43 Resp: 342532
 Ion Ratio Lower Upper
 43 100
 58 38.4 30.8 46.2
 100 15.7 12.1 18.1





#42

Toluene

Concen: 48.14 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Instrument :

MSVOA_U

ClientSampleId :

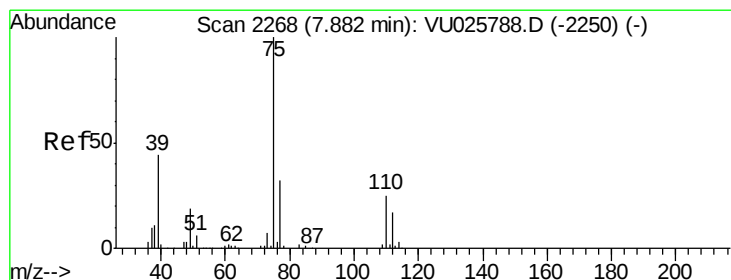
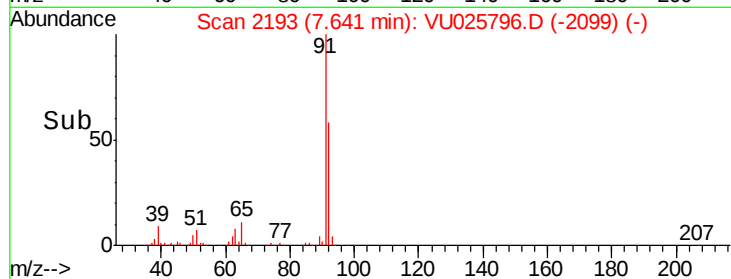
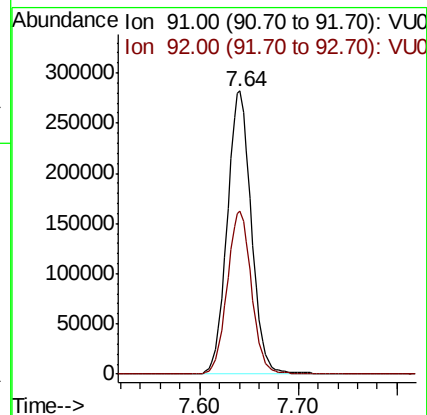
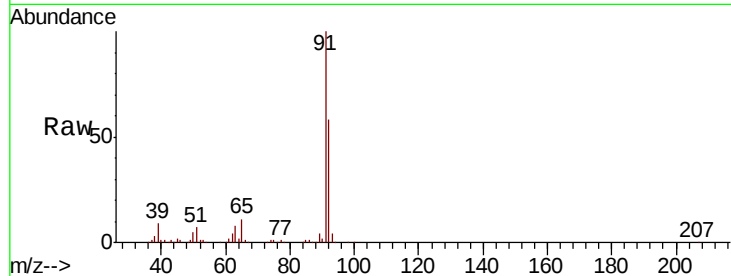
VSTD05048

Tot Ion: 91 Resp: 485129

Ion Ratio Lower Upper

91 100

92 57.5 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 50.24 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU025796.D

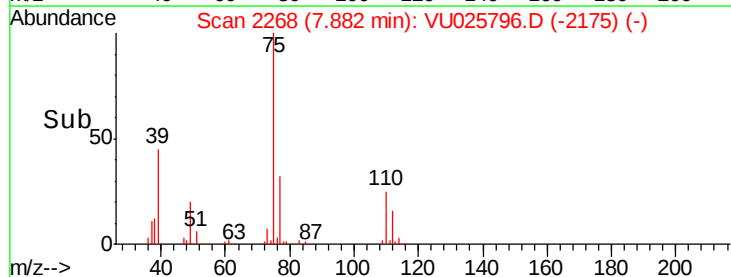
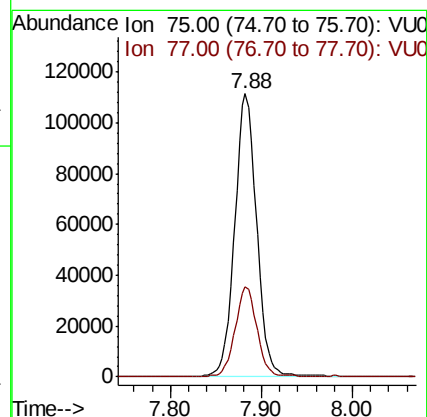
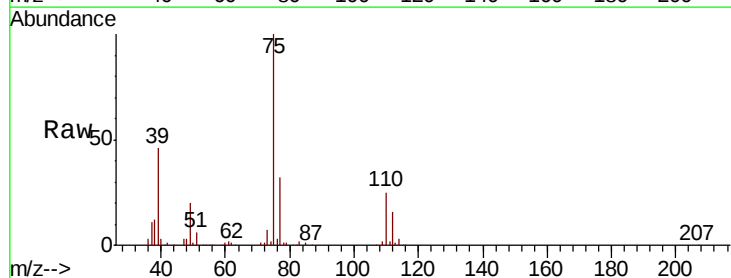
Acq: 02 Aug 2018 14:55

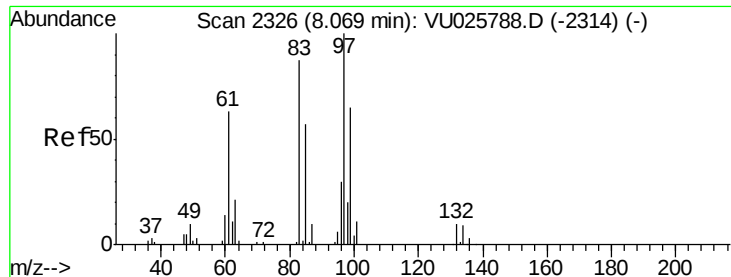
Tgt Ion: 75 Resp: 187696

Ion Ratio Lower Upper

75 100

77 31.9 22.2 41.2

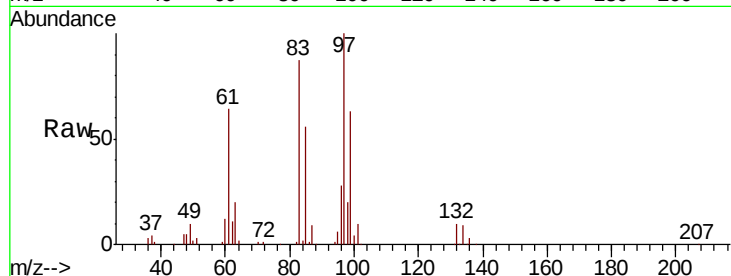




#45
 1,1,2-Trichloroethane
 Concen: 47.75 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05048

Tot Ion:	97	Resp:	116951
Ion	Ratio	Lower	Upper
97	100		
99	63.3	44.3	82.3
83	87.0	59.8	111.1
85	55.9	37.9	70.5



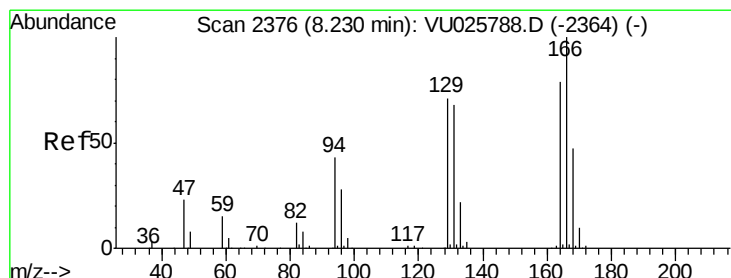
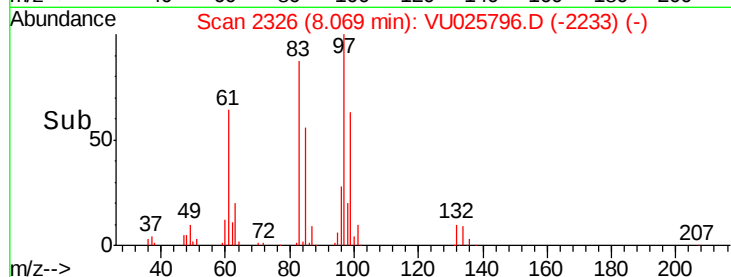
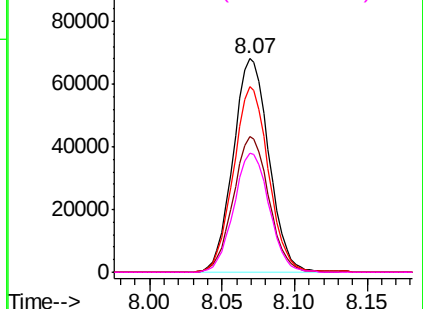
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

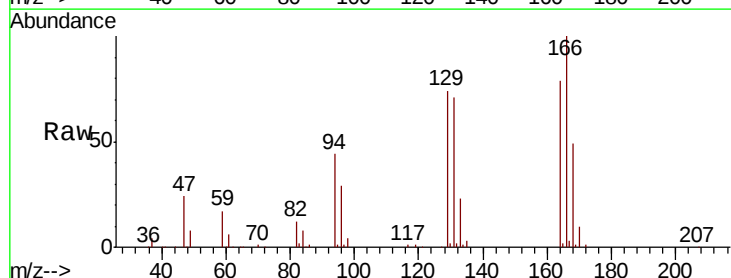
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 49.05 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

Tgt Ion:	164	Resp:	105417
Ion	Ratio	Lower	Upper
164	100		
129	94.5	65.1	120.9
131	90.2	62.8	116.6
166	127.1	89.7	166.7



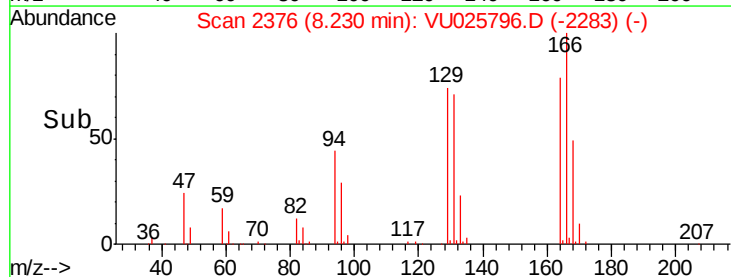
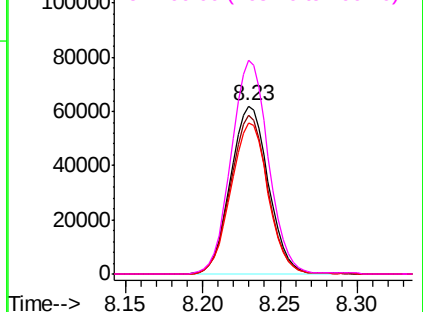
Abundance

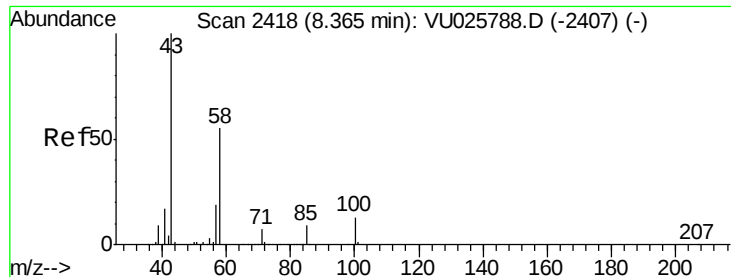
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

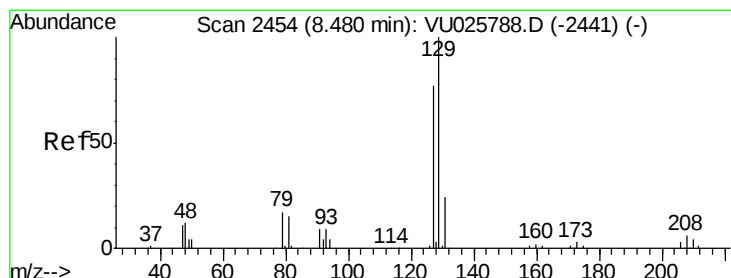
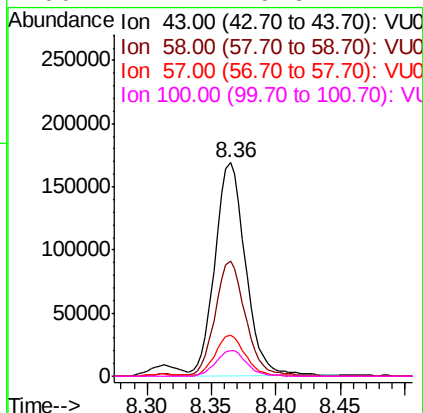
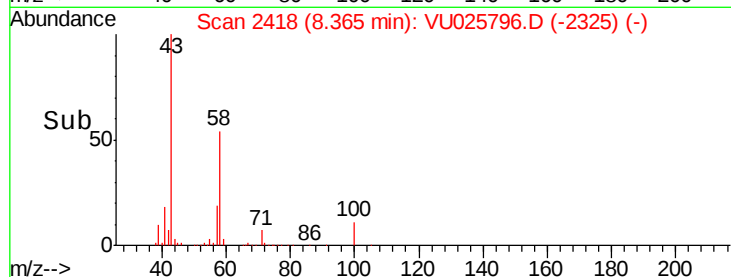
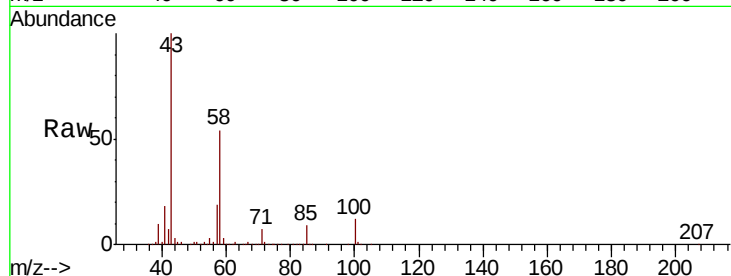




#48
2-Hexanone
Concen: 98.01 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU025796.D
Acq: 02 Aug 2018 14:55

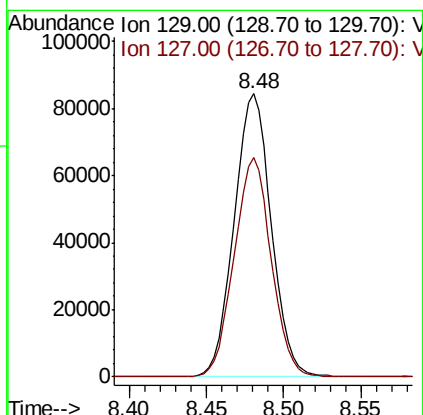
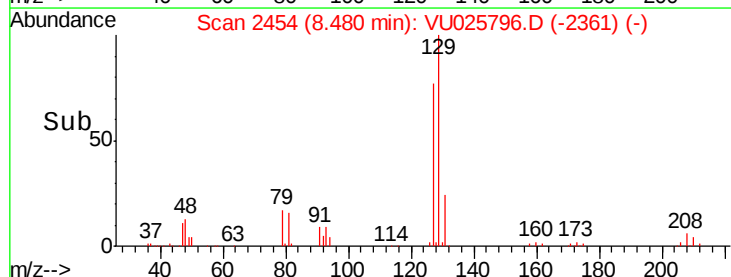
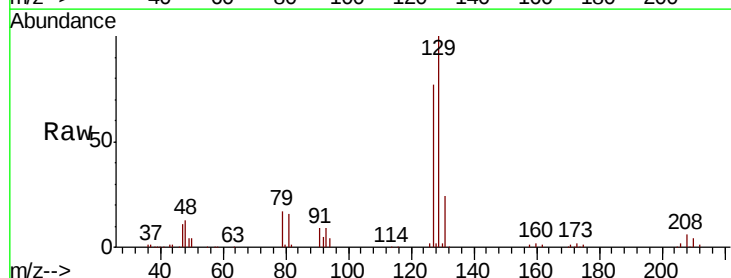
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

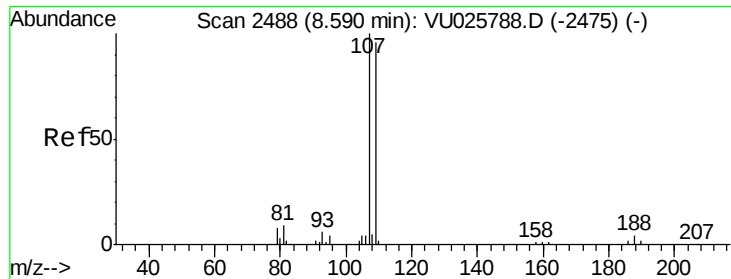
Tot Ion:	43	Resp:	277715
Ion	Ratio	Lower	Upper
43	100		
58	54.6	42.9	64.3
57	19.3	15.4	23.2
100	12.2	9.6	14.4



#49
Dibromochloromethane
Concen: 48.93 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025796.D
Acq: 02 Aug 2018 14:55

Tgt Ion:	129	Resp:	140573
Ion	Ratio	Lower	Upper
129	100		
127	77.4	53.8	100.0

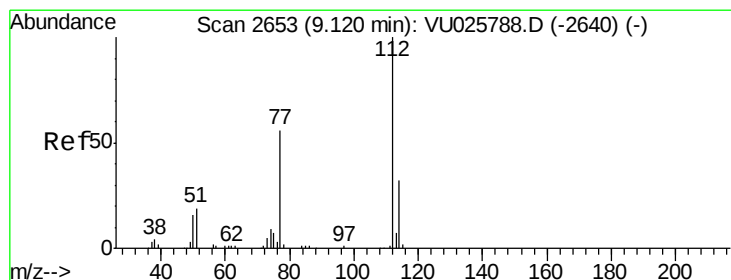
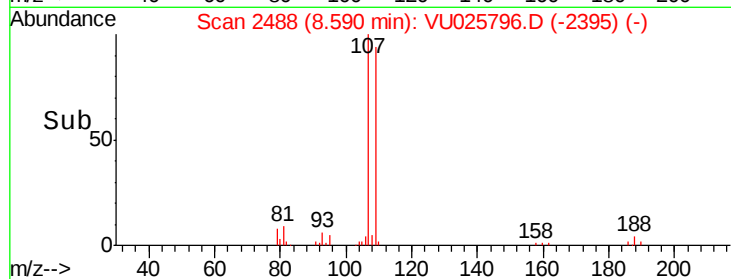
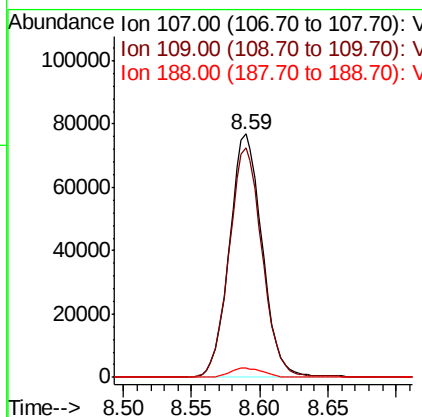
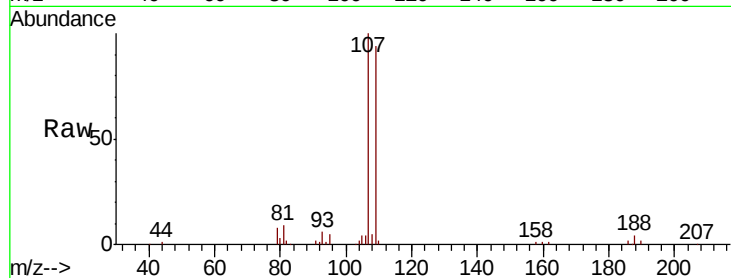




#50
 1,2-Dibromoethane
 Concen: 48.62 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

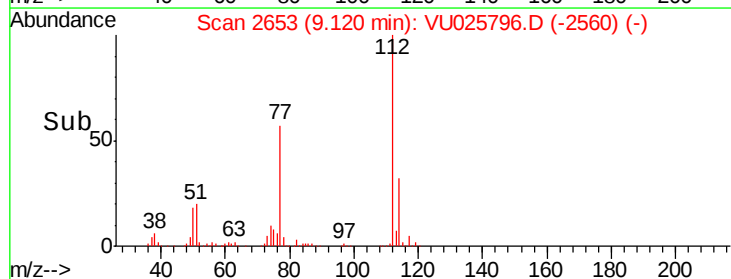
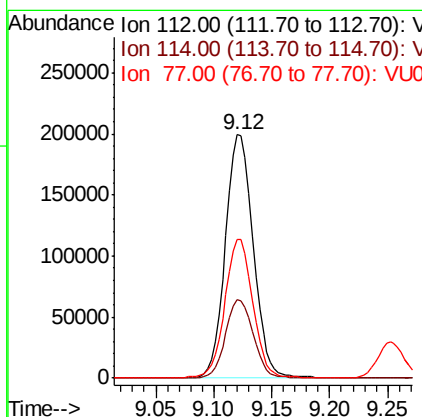
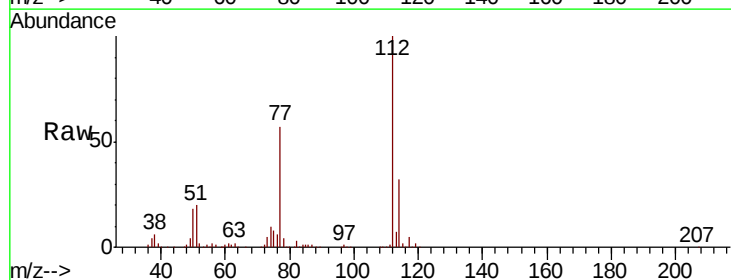
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

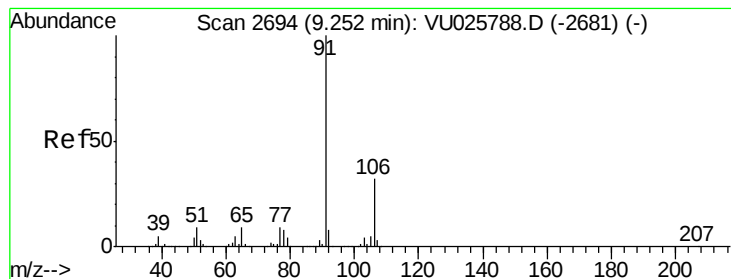
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.2	66.6	123.8
188	3.7	3.2	4.8



#51
 Chlorobenzene
 Concen: 49.17 ug/L
 RT: 9.12 min Scan# 2653
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.5	41.9
77	57.0	45.8	68.8





#52

Ethylbenzene

Concen: 49.51 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Instrument :

MSVOA_U

ClientSampleId :

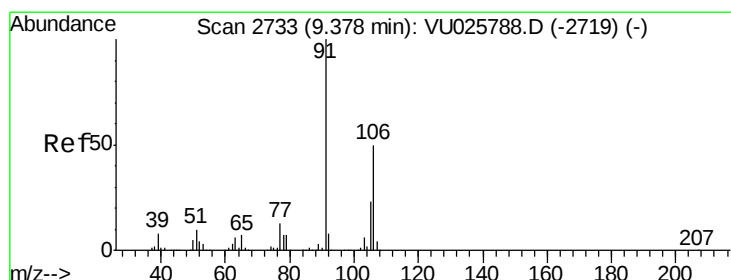
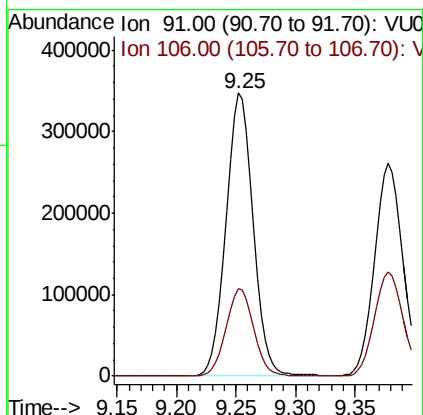
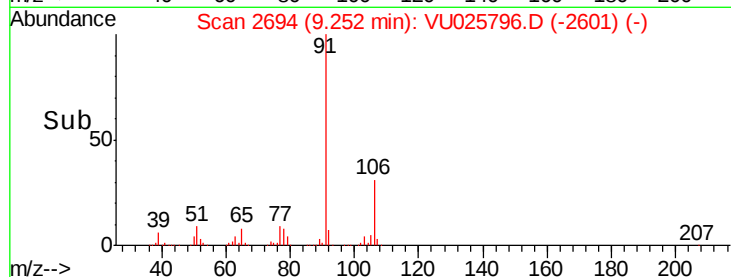
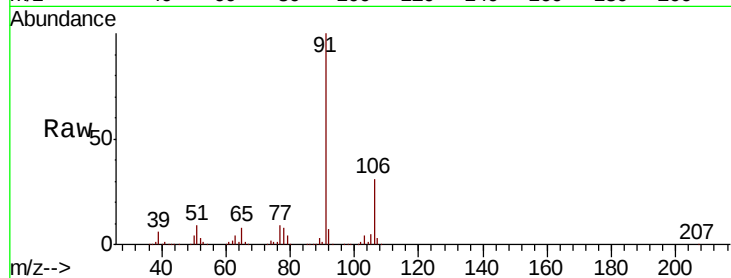
VSTD05048

Tot Ion: 91 Resp: 550636

Ion Ratio Lower Upper

91 100

106 31.0 22.3 41.5



#53

m,p-Xylene

Concen: 50.32 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU025796.D

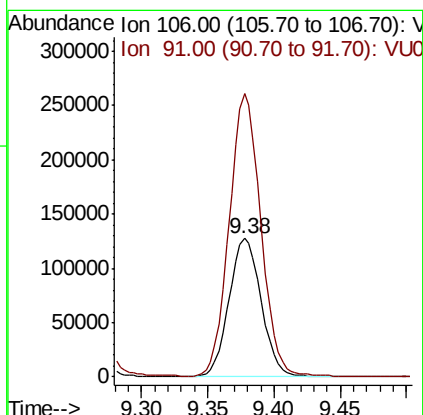
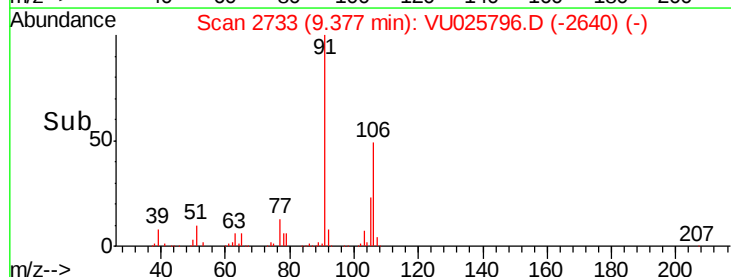
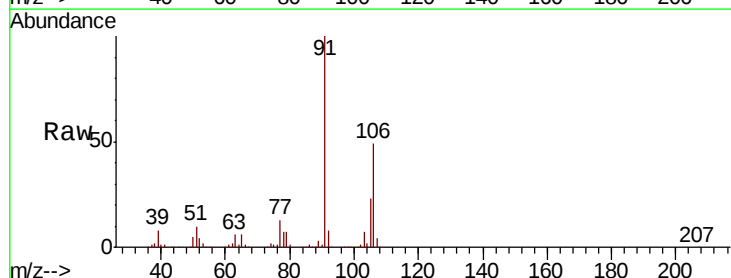
Acq: 02 Aug 2018 14:55

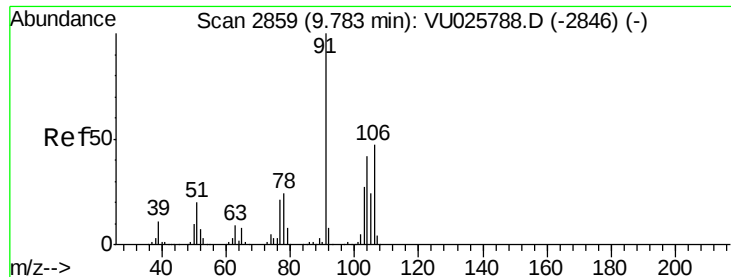
Tgt Ion: 106 Resp: 214366

Ion Ratio Lower Upper

106 100

91 204.1 141.7 263.3

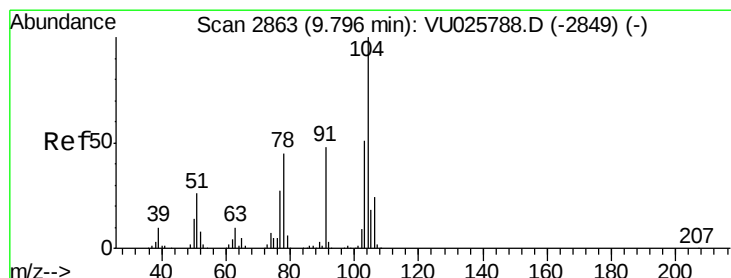
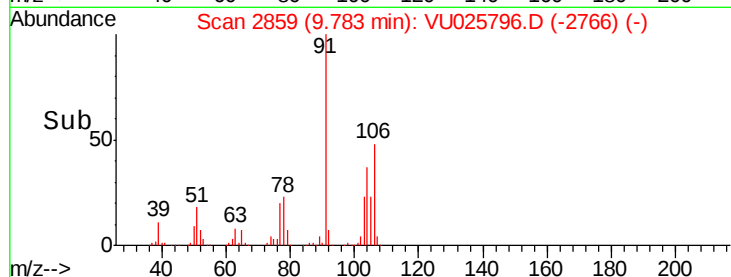
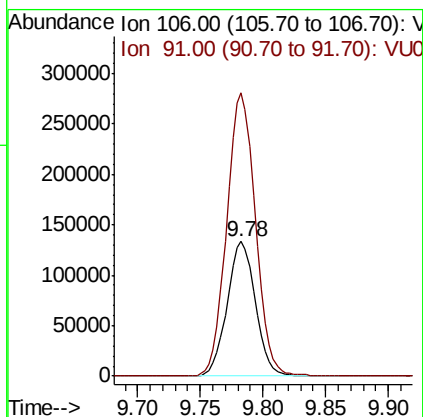
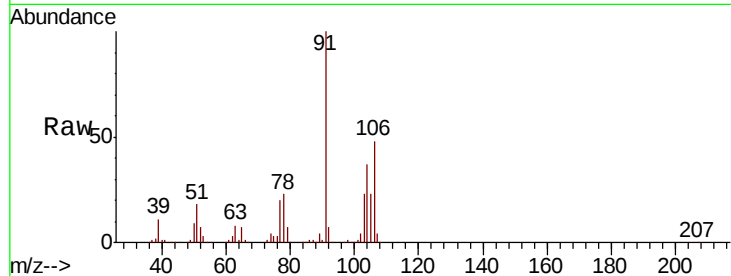




#54
o-xylene
Concen: 48.43 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU025796.D
Acq: 02 Aug 2018 14:55

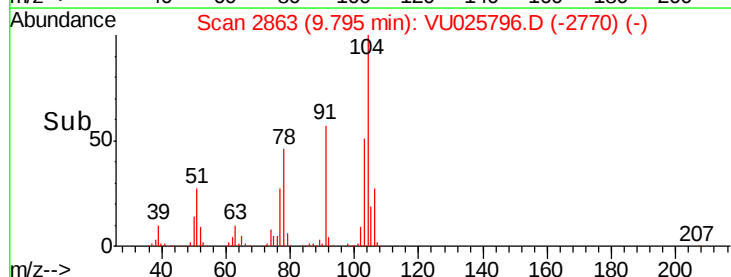
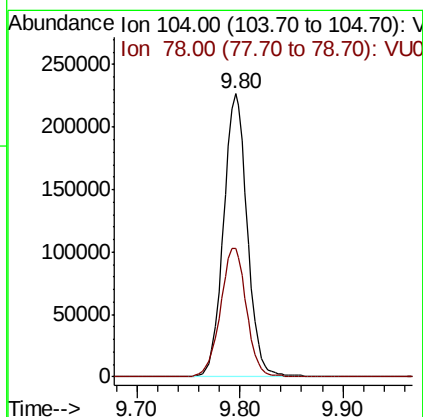
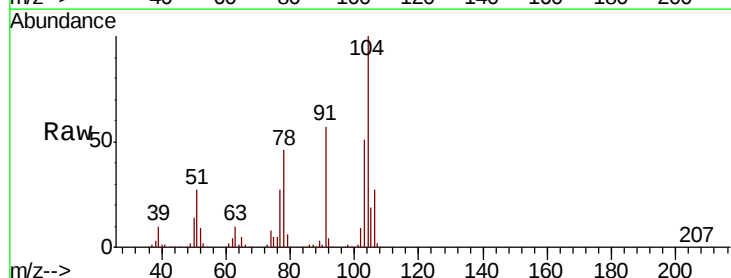
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

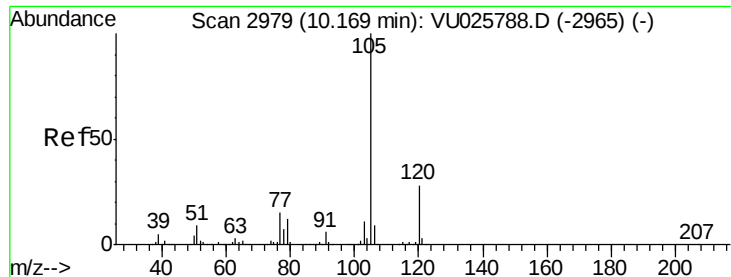
Tot Ion:106 Resp: 209335
Ion Ratio Lower Upper
106 100
91 210.4 150.6 279.6



#55
Styrene
Concen: 51.60 ug/L
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU025796.D
Acq: 02 Aug 2018 14:55

Tgt Ion:104 Resp: 363277
Ion Ratio Lower Upper
104 100
78 45.6 31.8 59.0





#56

Isopropylbenzene

Concen: 49.54 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

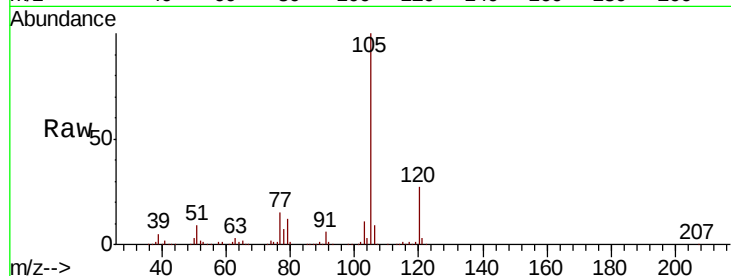
Tot Ion:105 Resp: 552609

Ion Ratio Lower Upper

105 100

120 26.7 21.7 32.5

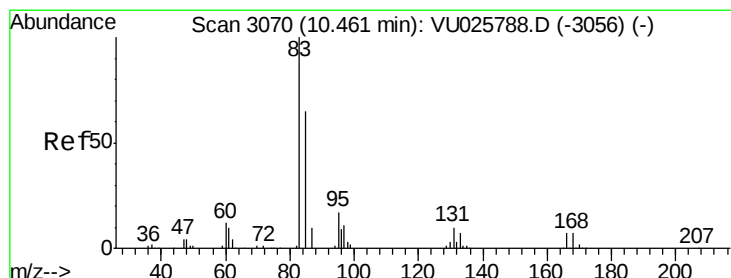
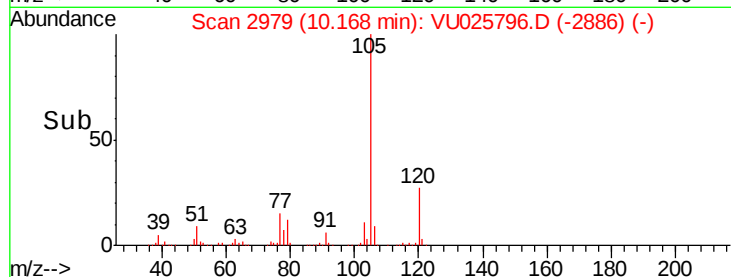
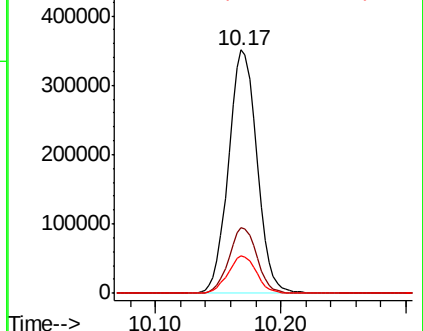
77 15.5 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 48.14 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

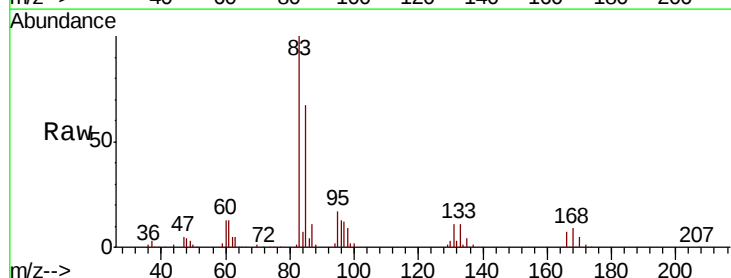
Tgt Ion: 83 Resp: 190181

Ion Ratio Lower Upper

83 100

85 67.4 45.1 83.7

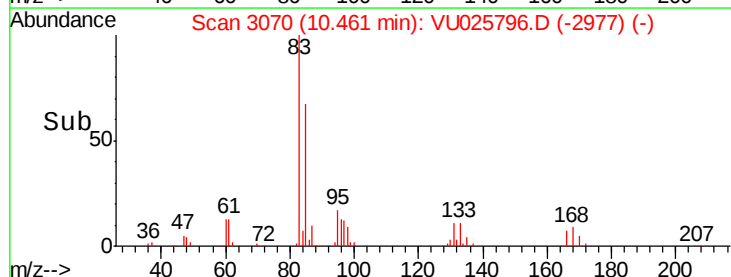
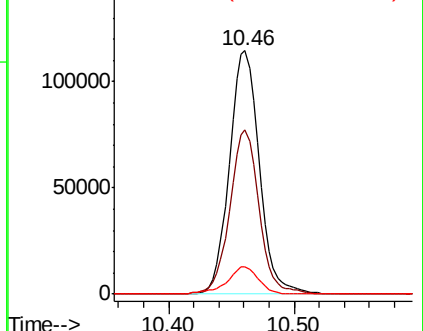
131 11.1 8.7 13.1

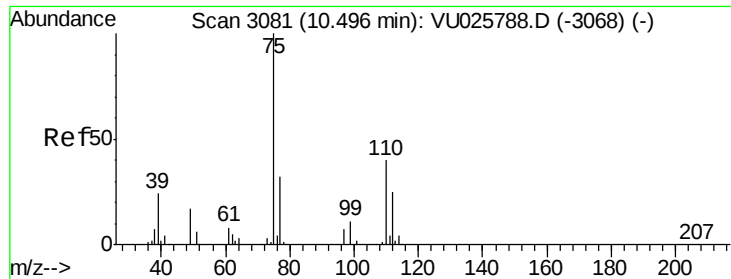


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.10 ug/L

RT: 10.50 min Scan# 3081

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Instrument :

MSVOA_U

ClientSampleId :

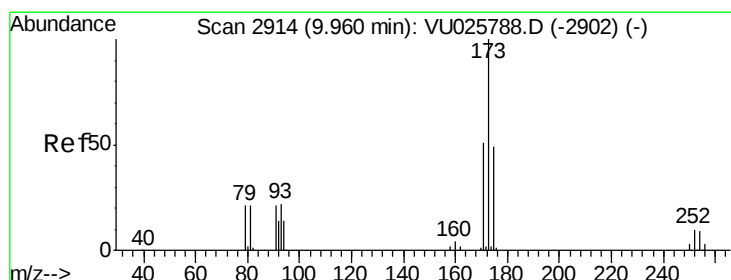
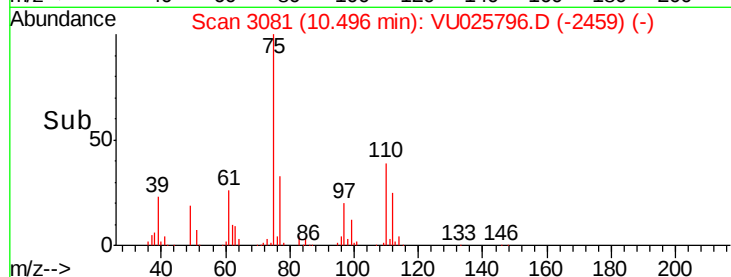
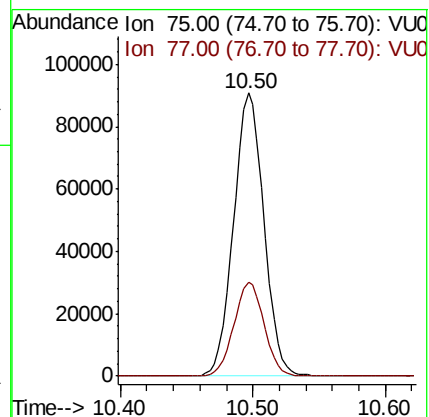
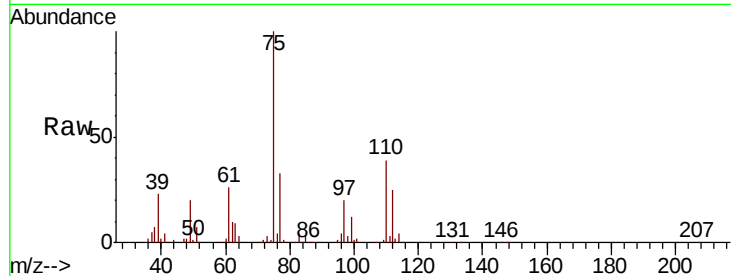
VSTD05048

Tot Ion: 75 Resp: 144246

Ion Ratio Lower Upper

75 100

77 32.5 25.8 38.8



#61

Bromoform

Concen: 45.65 ug/L

RT: 9.96 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

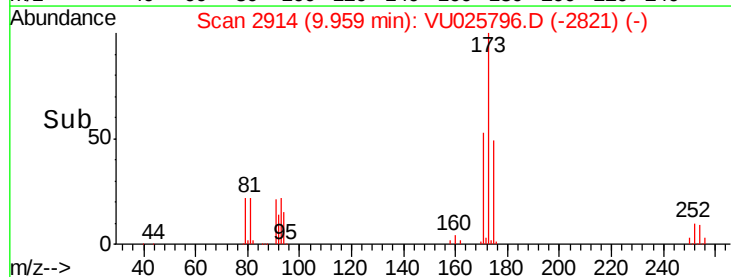
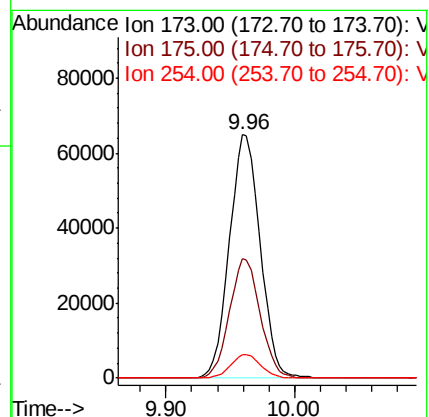
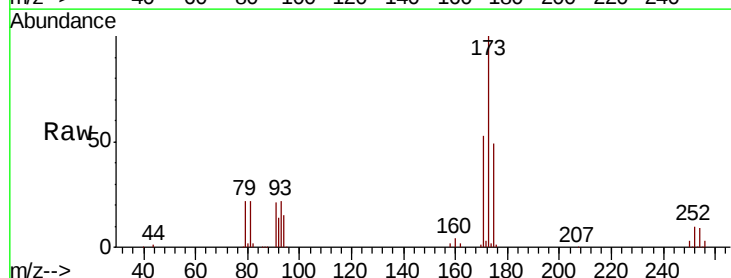
Tgt Ion: 173 Resp: 107443

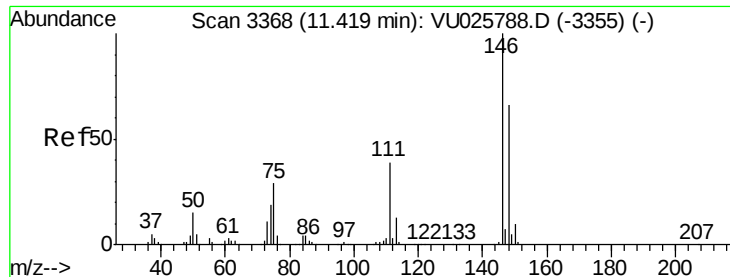
Ion Ratio Lower Upper

173 100

175 48.9 39.8 59.8

254 9.3 7.3 10.9

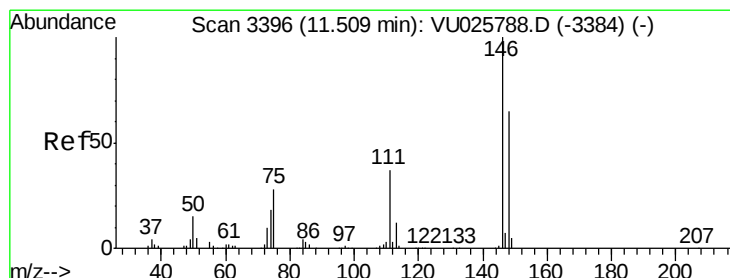
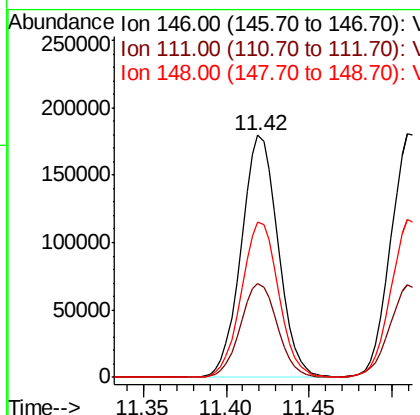
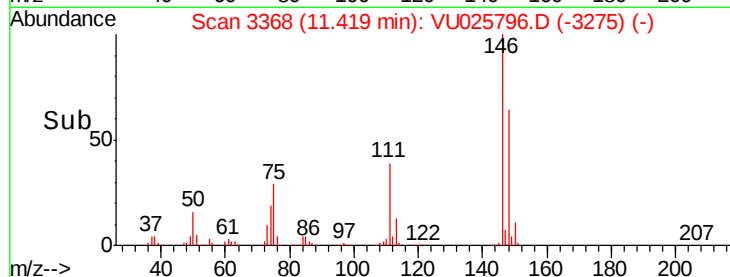
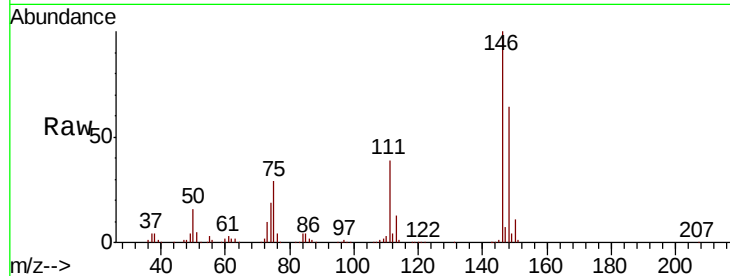




#62
 1,3-Dichlorobenzene
 Concen: 48.30 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

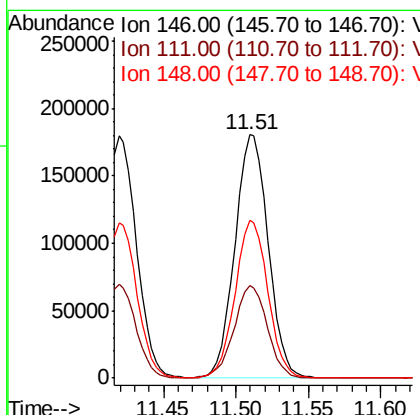
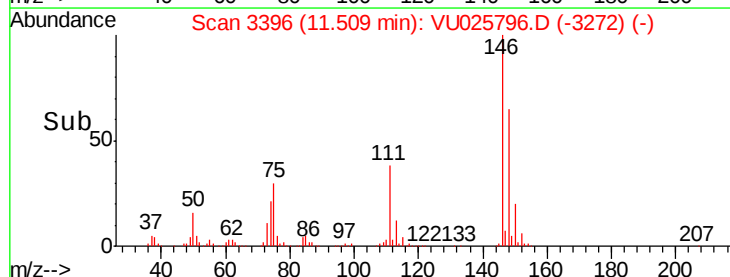
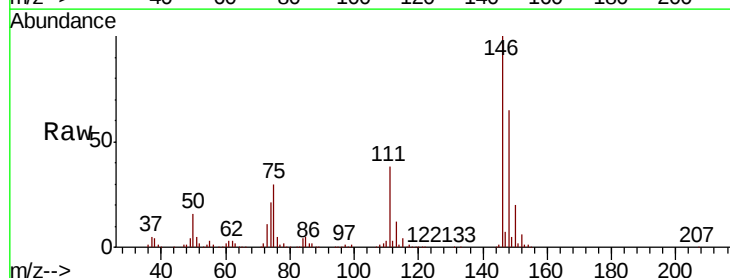
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

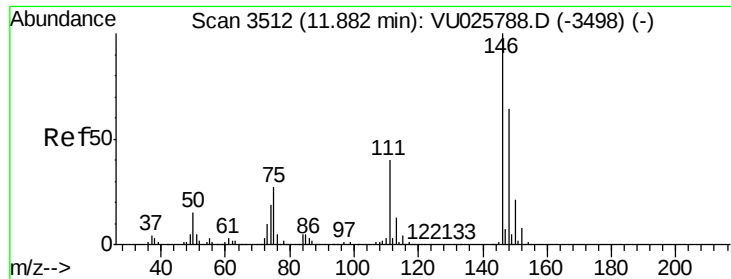
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	27.7	51.5
148	64.0	45.5	84.5



#63
 1,4-Dichlorobenzene
 Concen: 48.92 ug/L
 RT: 11.51 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	26.9	49.9
148	64.8	44.6	82.8

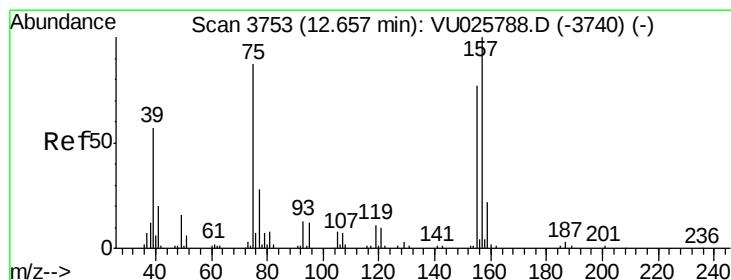
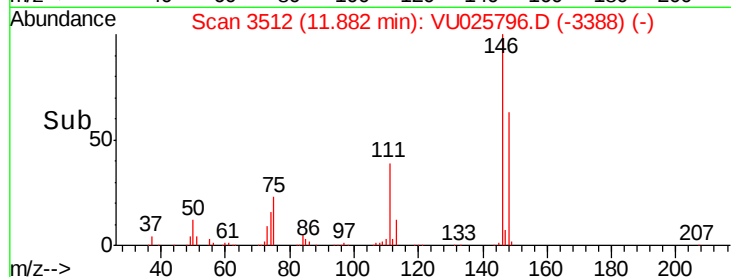
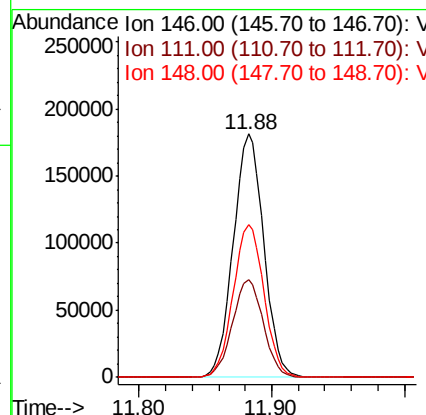
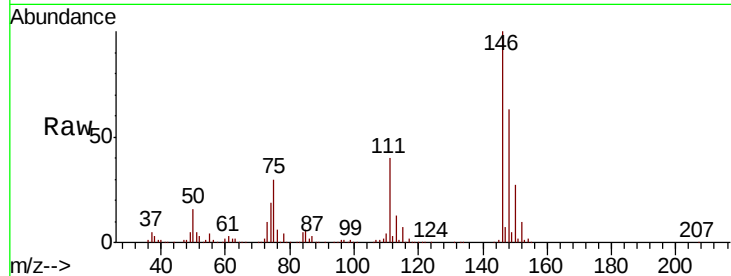




#65
 1,2-Dichlorobenzene
 Concen: 48.03 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

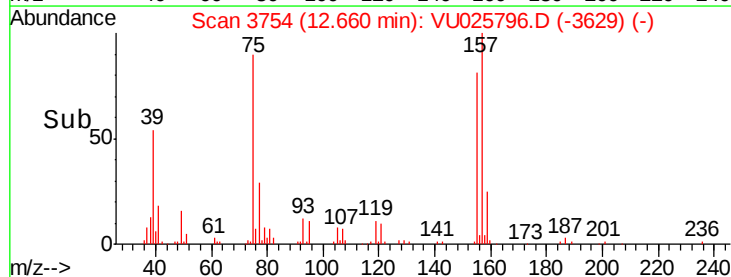
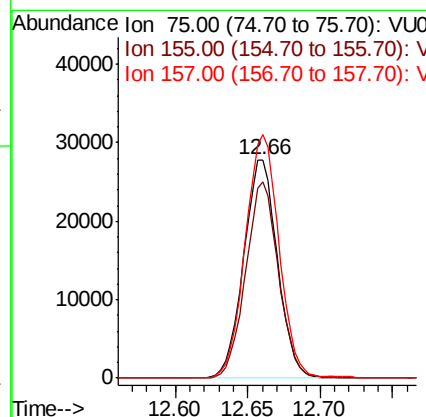
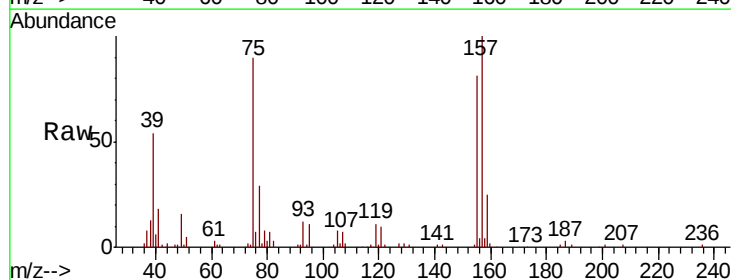
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

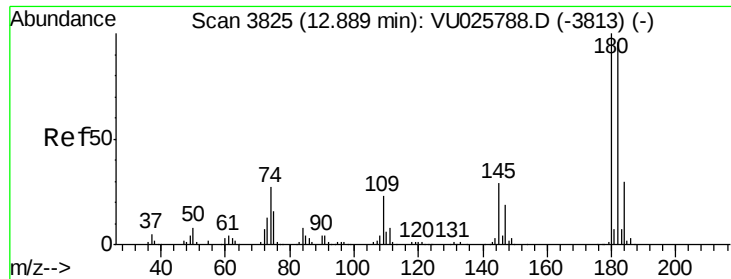
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	32.4	48.6
148	62.9	50.7	76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 47.36 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.1	66.3	99.5
157	111.6	91.5	137.3

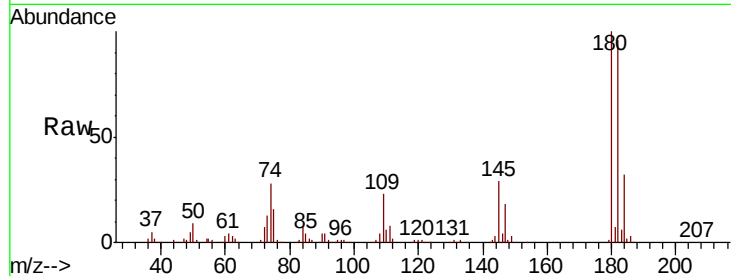




#67
 1,3,5-Trichlorobenzene
 Concen: 46.95 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tot Ion:	180	Resp:	208587
Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.3	115.9
184	31.3	24.6	36.8
145	29.1	23.0	34.6



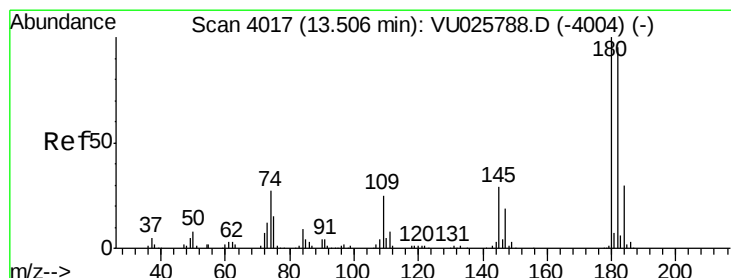
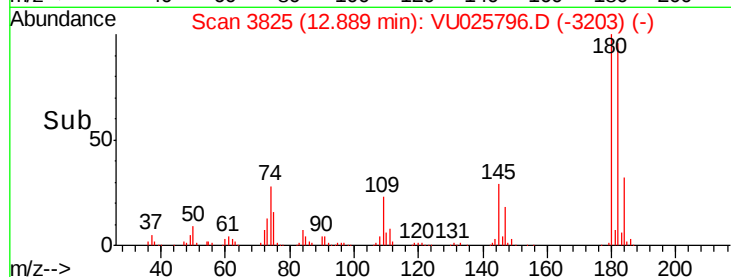
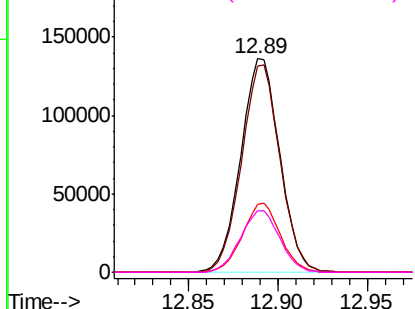
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

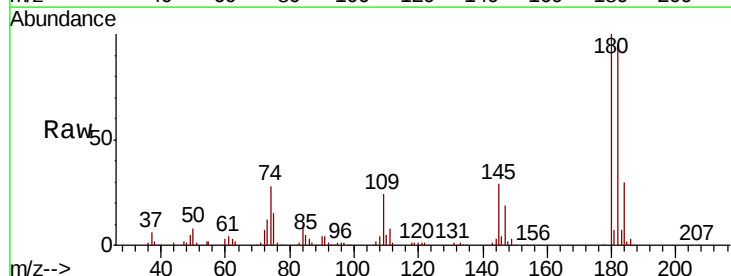
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.21 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025796.D
 Acq: 02 Aug 2018 14:55

Tgt Ion:	180	Resp:	191202
Ion	Ratio	Lower	Upper
180	100		
182	95.6	78.1	117.1
145	29.6	23.4	35.2

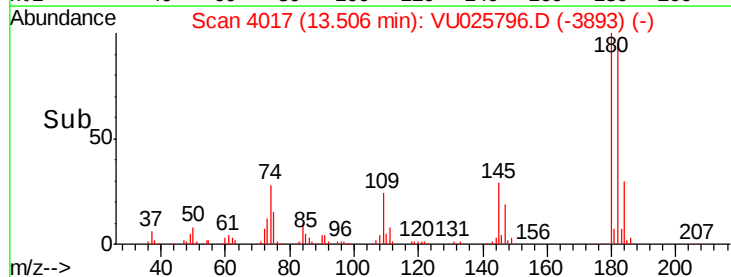
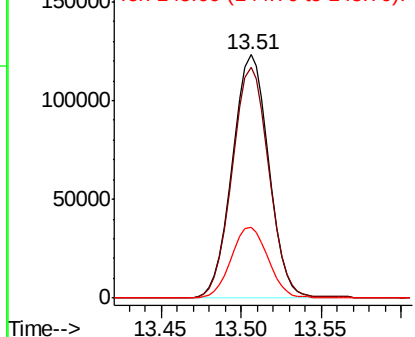


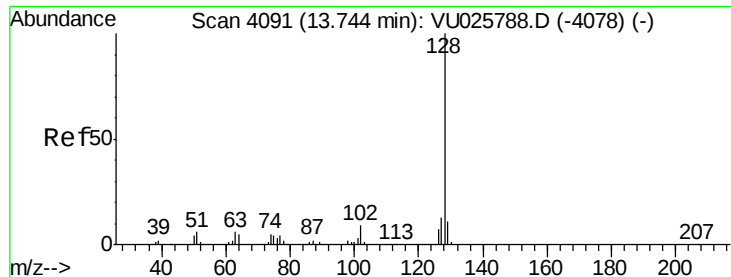
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 50.69 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. -0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

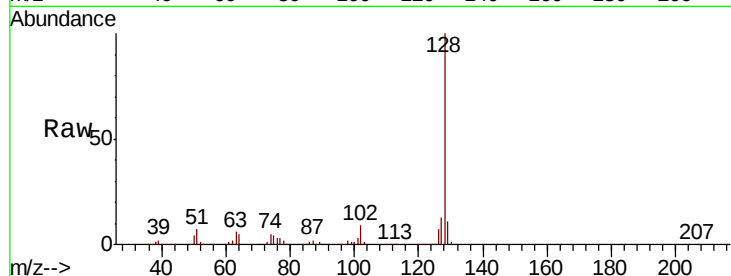
Tot Ion:128 Resp: 569174

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

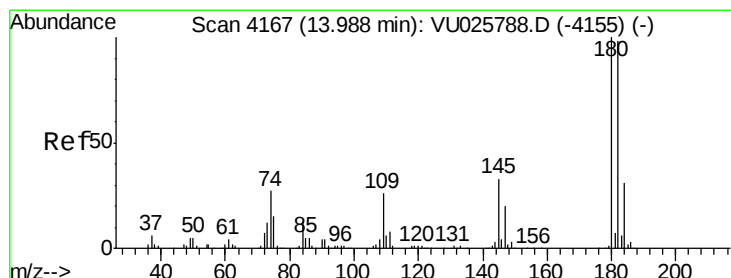
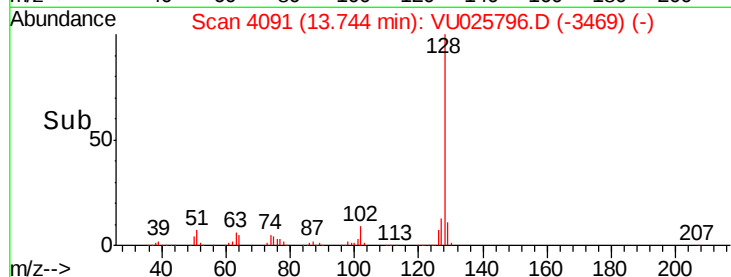
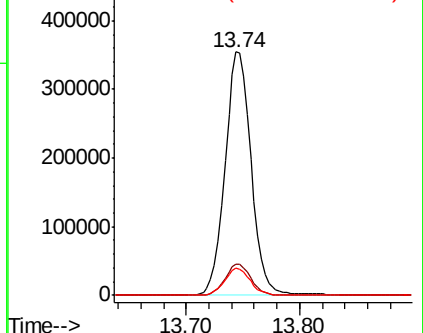
129 10.9 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 48.19 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025796.D

Acq: 02 Aug 2018 14:55

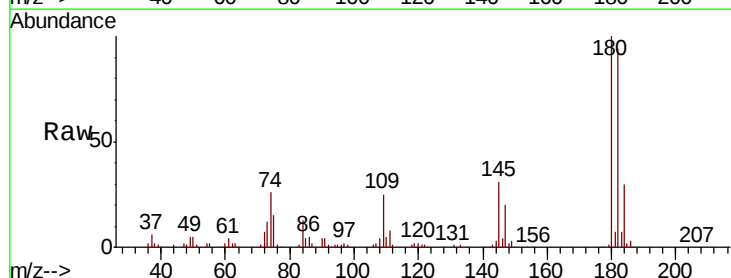
Tgt Ion:180 Resp: 190224

Ion Ratio Lower Upper

180 100

182 95.1 76.6 114.8

145 31.5 25.4 38.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

