

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080218\
 Data File : VU025788.D
 Acq On : 02 Aug 2018 09:44
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Quant Time: Aug 03 04:23:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 31 17:05:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	331603	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	310009	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	172849	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	77293	40.83	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	81.66%
7) Chloroethane-d5	1.68	69	68026	43.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.12%
11) 1,1-Dichloroethene-d2	2.27	63	174727	44.33	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.66%
21) 2-Butanone-d5	4.18	46	147132	100.67	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.67%
24) Chloroform-d	4.65	84	196918	46.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.40%
26) 1,2-Dichloroethane-d4	5.31	65	132621	47.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.12%
32) Benzene-d6	5.34	84	363139	45.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.34%
36) 1,2-Dichloropropane-d6	6.33	67	120389	46.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.98%
41) Toluene-d8	7.57	98	350461	45.96	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.92%
43) trans-1,3-Dichloropropene-	7.85	79	61477	46.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.96%
47) 2-Hexanone-d5	8.31	63	108301	100.96	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.96%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	175407	48.95	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.90%
64) 1,2-Dichlorobenzene-d4	11.86	152	157314	44.91	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.82%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.21	85	137444	42.07	ug/L	98
3) Chloromethane	1.33	50	97657	41.39	ug/L	99
5) Vinyl chloride	1.40	62	111185	42.96	ug/L	100
6) Bromomethane	1.63	94	35526	39.47	ug/L	91
8) Chloroethane	1.70	64	64972	42.64	ug/L	98
9) Trichlorofluoromethane	1.89	101	165240	44.84	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	99113	48.03	ug/L	98
12) 1,1-Dichloroethene	2.28	96	87837	46.94	ug/L	99
13) Acetone	2.32	43	188476	109.87	ug/L	100
14) Carbon disulfide	2.48	76	264881	43.47	ug/L	100
15) Methyl Acetate	2.62	43	105883	44.65	ug/L	99
16) Methylene chloride	2.70	84	105025	45.05	ug/L	96
17) trans-1,2-Dichloroethene	2.99	96	98331	45.64	ug/L	97
18) Methyl tert-butyl Ether	3.00	73	327142	46.62	ug/L	100
19) 1,1-Dichloroethane	3.45	63	185031	45.14	ug/L	99
20) cis-1,2-Dichloroethene	4.23	96	112875	46.41	ug/L	93
22) 2-Butanone	4.26	43	193282	101.21	ug/L	100

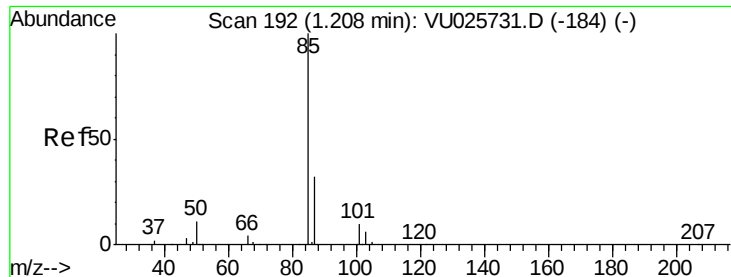
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080218\
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 Quant Title : VOC Analysis
 QLast Update : Tue Jul 31 17:05:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	58780	45.79	ug/L	100
25) Chloroform	4.68	83	193180	44.79	ug/L	99
27) 1,2-Dichloroethane	5.41	62	160280	45.56	ug/L	99
29) Cyclohexane	5.00	56	160012	44.55	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	178802	46.09	ug/L	99
31) Carbon tetrachloride	5.14	117	163319	45.53	ug/L	98
33) Benzene	5.39	78	398235	44.71	ug/L	100
34) Trichloroethene	6.19	95	110487	46.75	ug/L	97
35) Methylcyclohexane	6.42	83	166127	43.59	ug/L	98
37) 1,2-Dichloropropane	6.44	63	108931	44.75	ug/L	100
38) Bromodichloromethane	6.76	83	148947	46.41	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	177918	47.10	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	293690	91.88	ug/L	99
42) Toluene	7.64	91	442912	46.11	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	172259	48.37	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	104184	44.62	ug/L	98
46) Tetrachloroethene	8.23	164	97743	47.70	ug/L	98
48) 2-Hexanone	8.36	43	267622	99.08	ug/L	99
49) Dibromochloromethane	8.48	129	132031	48.21	ug/L	100
50) 1,2-Dibromoethane	8.59	107	116168	46.18	ug/L	99
51) Chlorobenzene	9.12	112	305152	47.19	ug/L	99
52) Ethylbenzene	9.25	91	503410	47.48	ug/L	100
53) m,p-Xylene	9.38	106	196154	48.30	ug/L	98
54) o-xylene	9.78	106	189728	46.04	ug/L	98
55) Styrene	9.80	104	328029	48.88	ug/L	100
56) Isopropylbenzene	10.17	105	507309	47.70	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	170248	45.21	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	127529	44.61	ug/L	99
61) Bromoform	9.96	173	99648	44.57	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	253900	46.44	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	261747	46.90	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	257968	45.04	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	38358	42.58	ug/L	97
67) 1,3,5-Trichlorobenzene	12.89	180	190922	45.24	ug/L	100
68) 1,2,4-trichlorobenzene	13.51	180	169697	47.84	ug/L	99
69) Naphthalene	13.74	128	495119	46.42	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	170004	45.34	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 42.07 ug/L

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

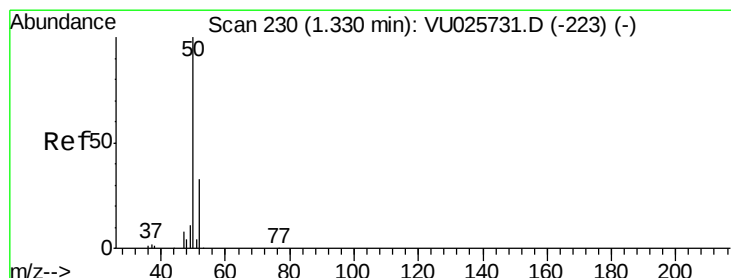
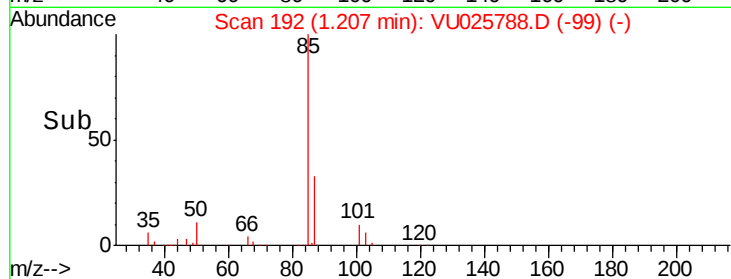
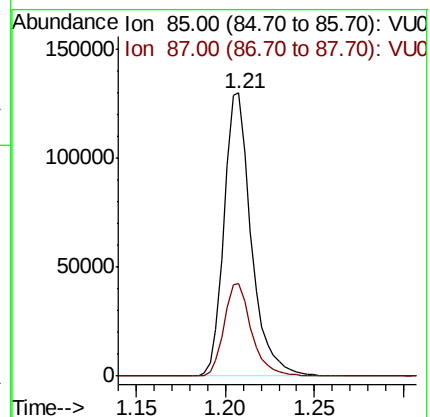
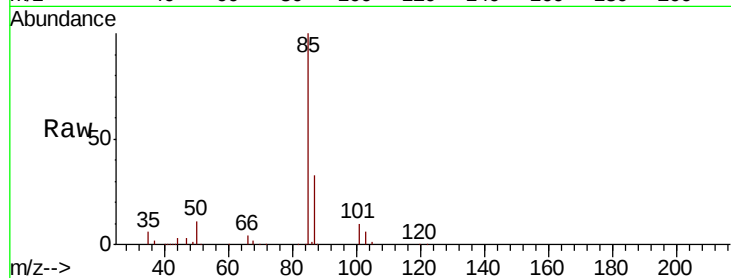
VSTD05047

Tot Ion: 85 Resp: 137444

Ion Ratio Lower Upper

85 100

87 33.0 25.6 38.4



#3

Chloromethane

Concen: 41.39 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU025788.D

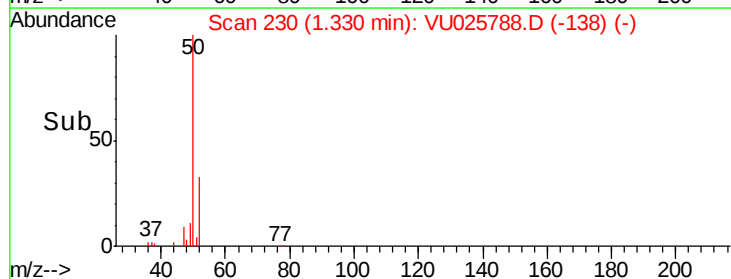
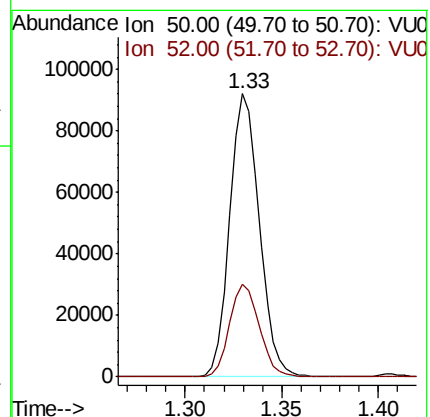
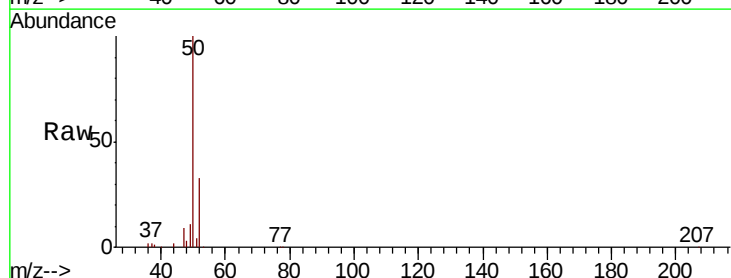
Acq: 02 Aug 2018 09:44

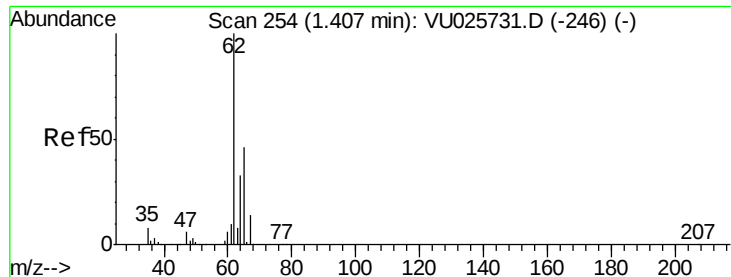
Tgt Ion: 50 Resp: 97657

Ion Ratio Lower Upper

50 100

52 32.6 23.2 43.2





#5

Vinyl chloride

Concen: 42.96 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

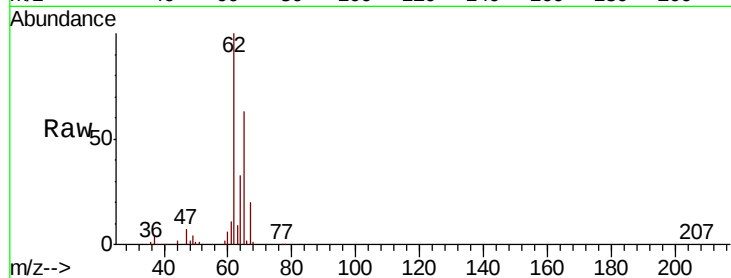
VSTD05047

Tot Ion: 62 Resp: 111185

Ion Ratio Lower Upper

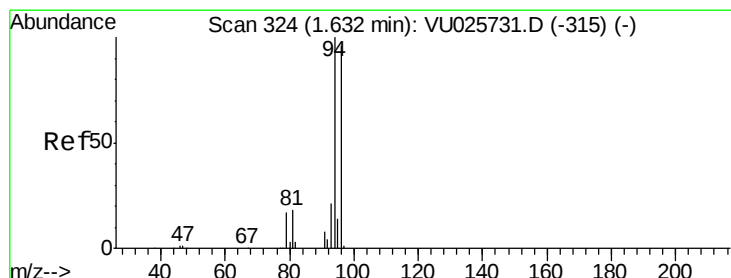
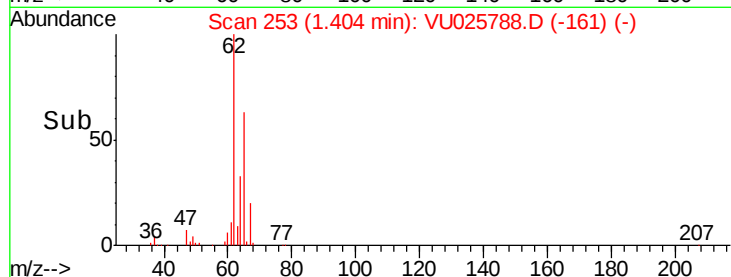
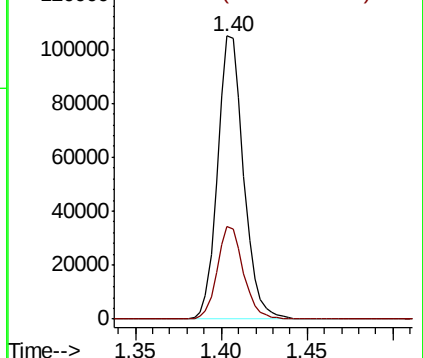
62 100

64 32.5 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: 39.47 ug/L

RT: 1.63 min Scan# 323

Delta R.T. 0.00 min

Lab File: VU025788.D

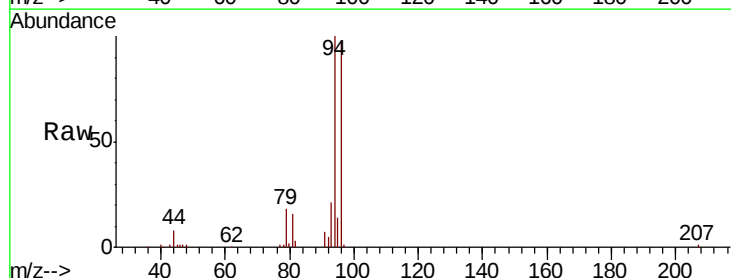
Acq: 02 Aug 2018 09:44

Tgt Ion: 94 Resp: 35526

Ion Ratio Lower Upper

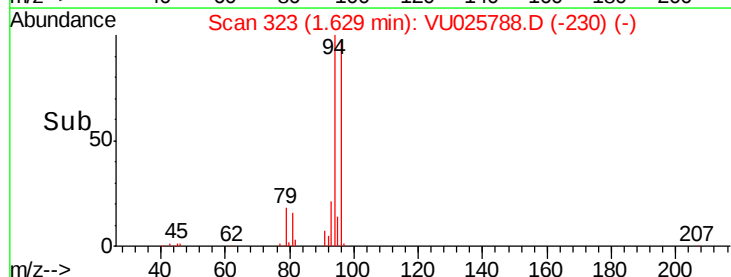
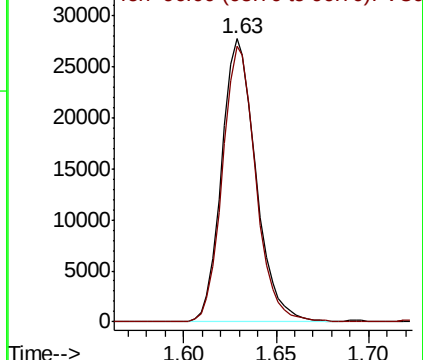
94 100

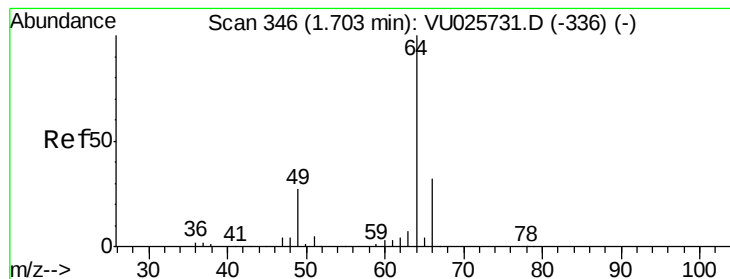
96 97.2 62.4 115.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 42.64 ug/L

RT: 1.70 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

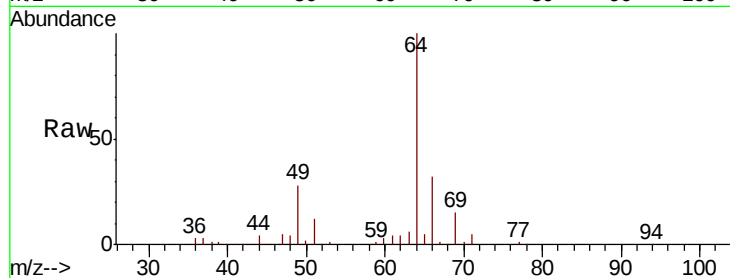
VSTD05047

Tot Ion: 64 Resp: 64972

Ion Ratio Lower Upper

64 100

66 32.4 23.5 43.7



Abundance Ion 64.00 (63.70 to 64.70): VU025731.D (-336) (-)

Ion 66.00 (65.70 to 66.70): VU025731.D (-336) (-)

1.70

60000

50000

40000

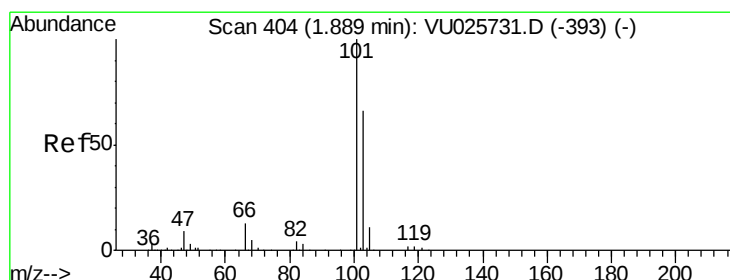
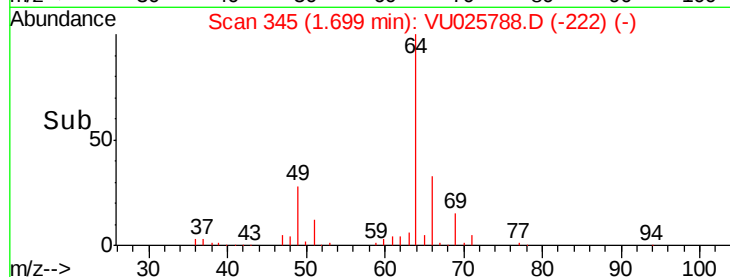
30000

20000

10000

0

Time-->



#9

Trichlorofluoromethane

Concen: 44.84 ug/L

RT: 1.89 min Scan# 404

Delta R.T. 0.00 min

Lab File: VU025788.D

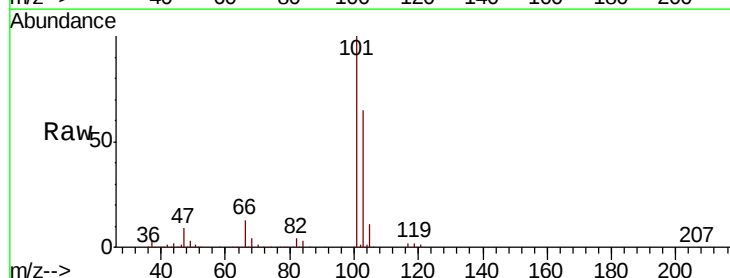
Acq: 02 Aug 2018 09:44

Tgt Ion:101 Resp: 165240

Ion Ratio Lower Upper

101 100

103 64.9 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): VU025731.D (-393) (-)

Ion 103.00 (102.70 to 103.70): VU025731.D (-393) (-)

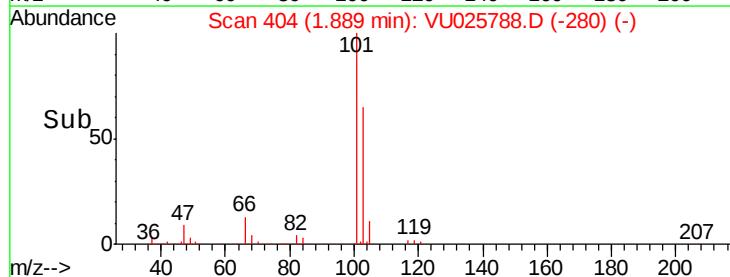
1.89

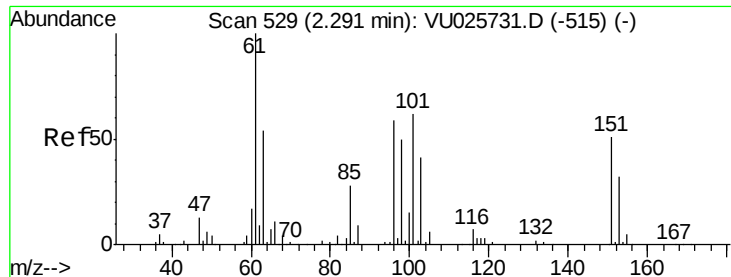
100000

50000

0

Time-->





#10

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

Concen: 48.03 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

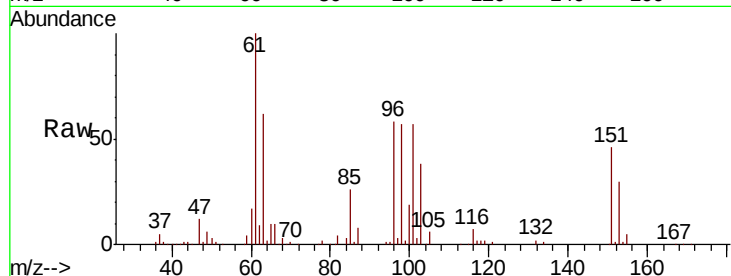
Tot Ion:101 Resp: 99113

Ion Ratio Lower Upper

101 100

85 44.0 35.5 53.3

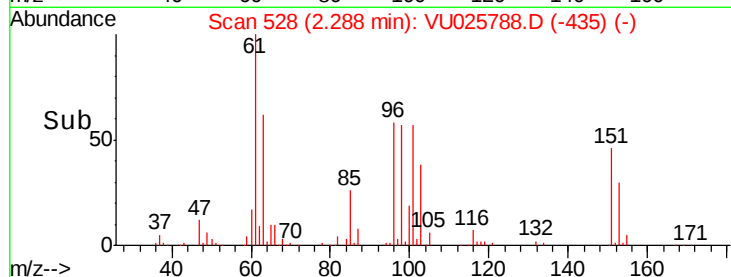
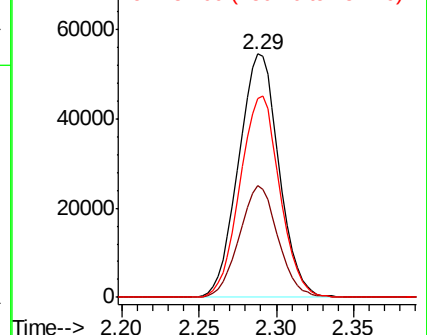
151 81.5 63.5 95.3



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: 46.94 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

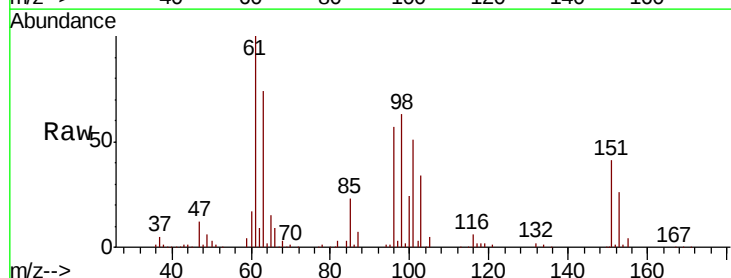
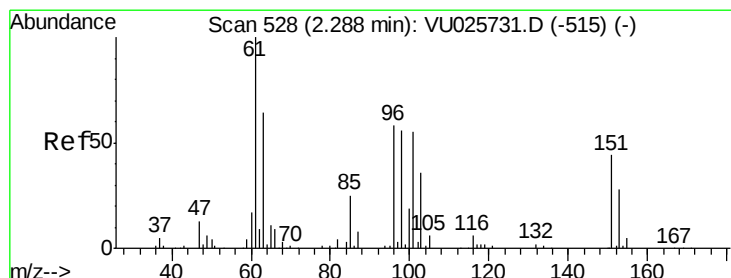
Tgt Ion: 96 Resp: 87837

Ion Ratio Lower Upper

96 100

61 176.3 122.5 227.5

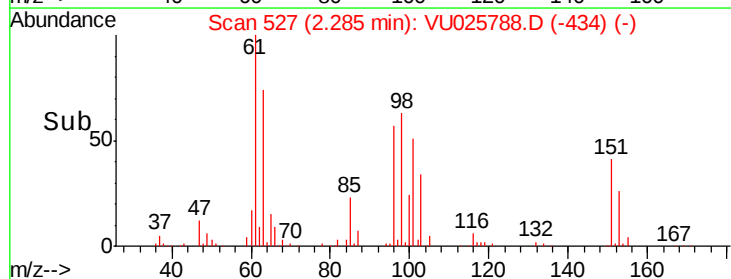
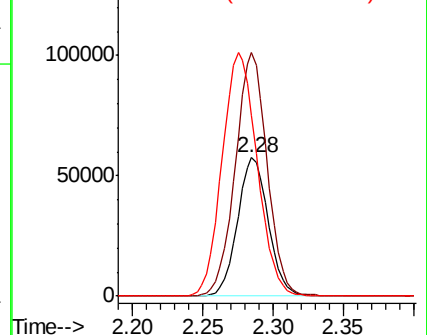
63 130.6 90.9 168.9

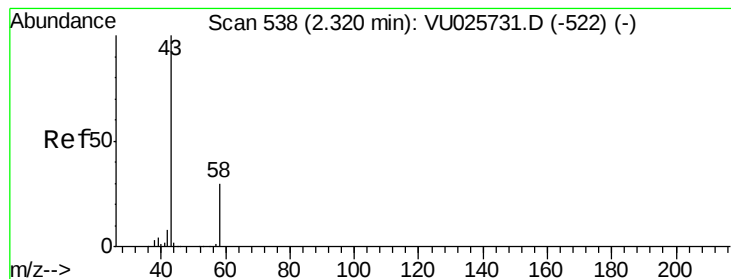


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 109.87 ug/L

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

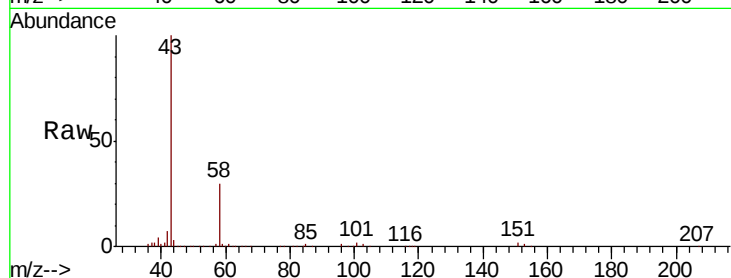
VSTD05047

Tot Ion: 43 Resp: 188476

Ion Ratio Lower Upper

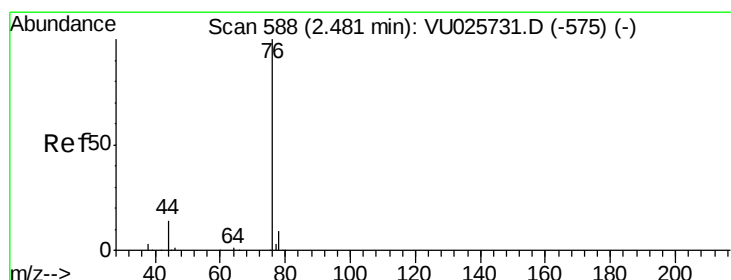
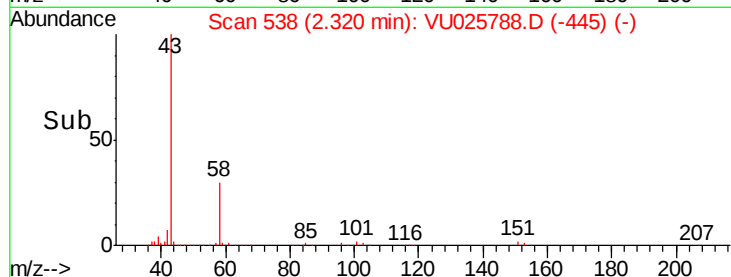
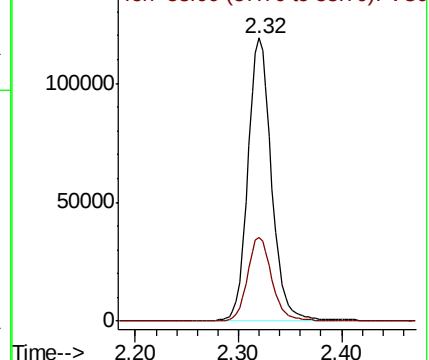
43 100

58 30.6 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 43.47 ug/L

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025788.D

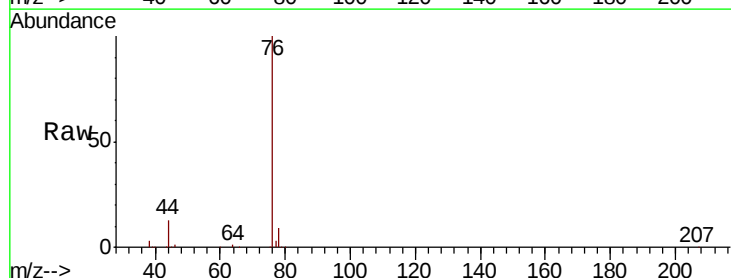
Acq: 02 Aug 2018 09:44

Tgt Ion: 76 Resp: 264881

Ion Ratio Lower Upper

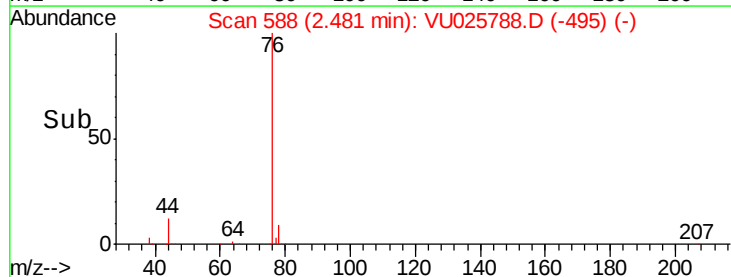
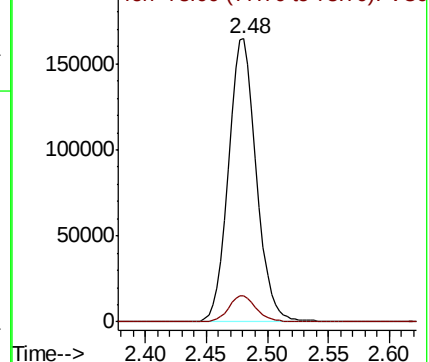
76 100

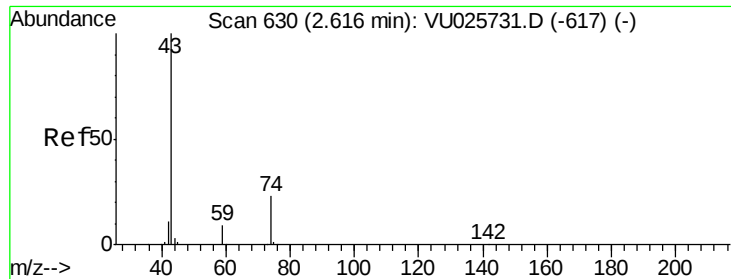
78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 44.65 ug/L

RT: 2.62 min Scan# 630

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

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ClientSampleId :

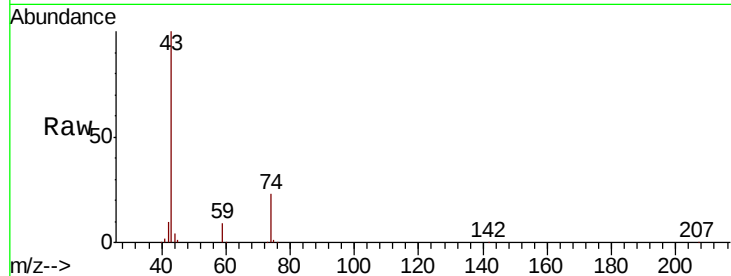
VSTD05047

Tot Ion: 43 Resp: 105883

Ion Ratio Lower Upper

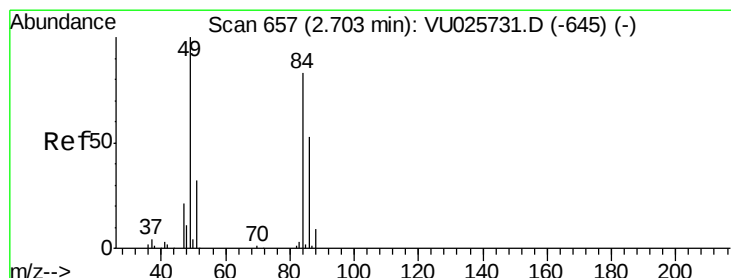
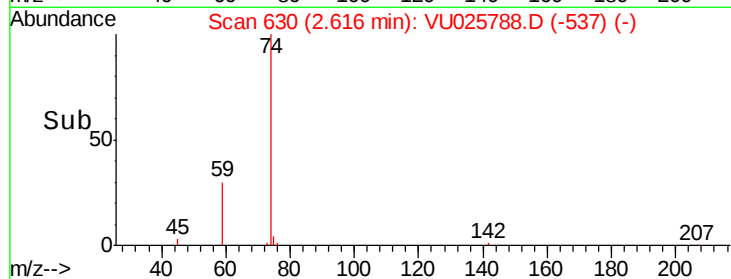
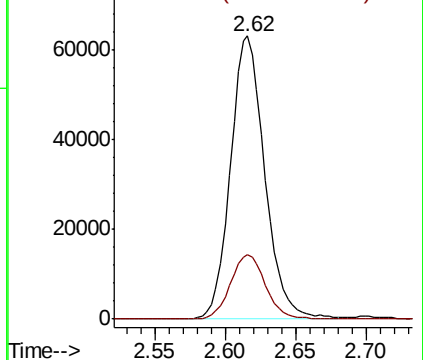
43 100

74 23.5 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: 45.05 ug/L

RT: 2.70 min Scan# 657

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

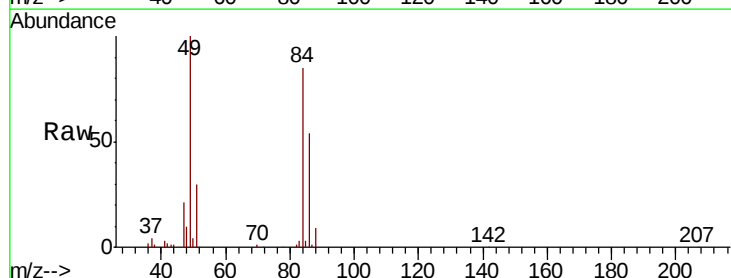
Tgt Ion: 84 Resp: 105025

Ion Ratio Lower Upper

84 100

86 63.9 45.6 84.6

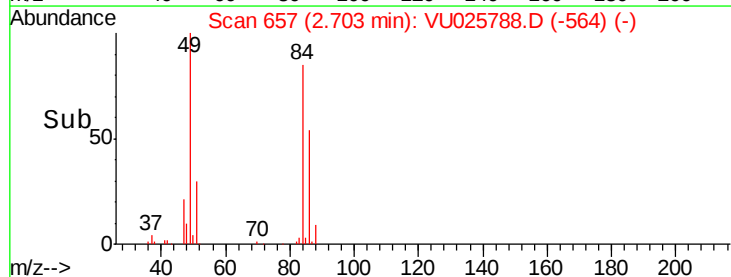
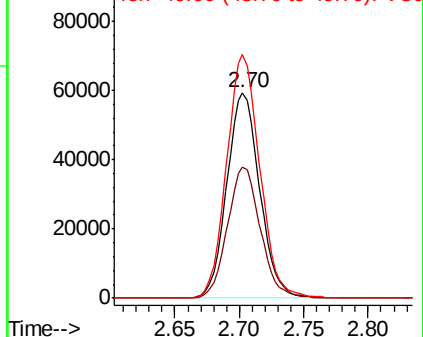
49 118.3 87.0 161.6

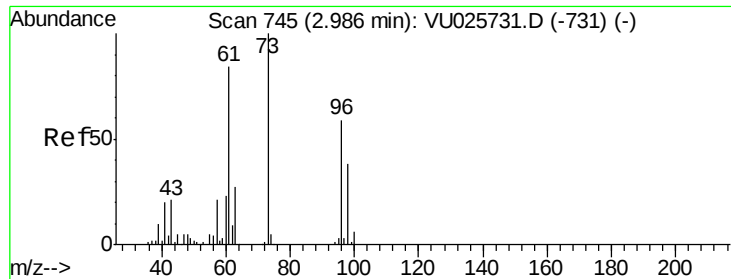


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

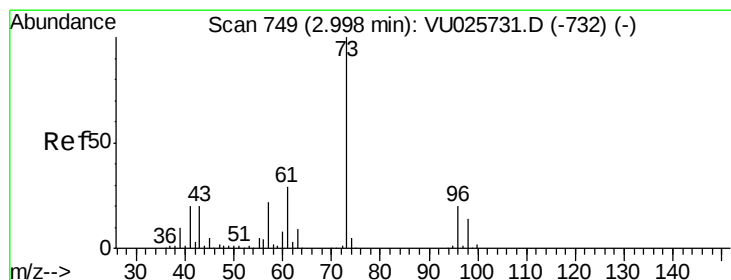
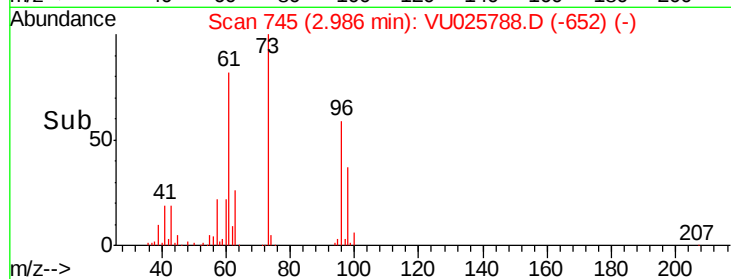
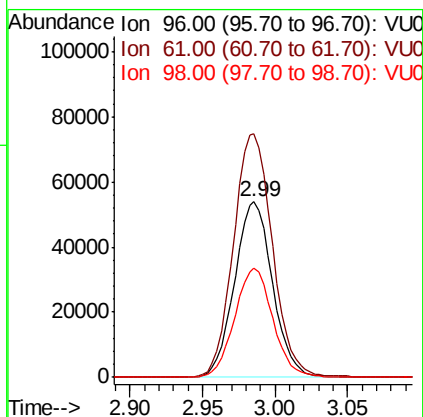
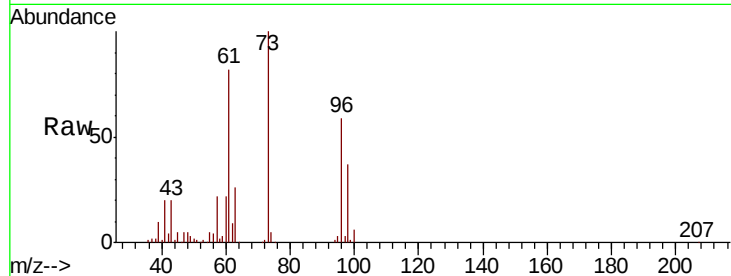




#17
trans-1,2-Dichloroethene
Concen: 45.64 ug/L
RT: 2.99 min Scan# 745
Delta R.T. 0.00 min
Lab File: VU025788.D
Acq: 02 Aug 2018 09:44

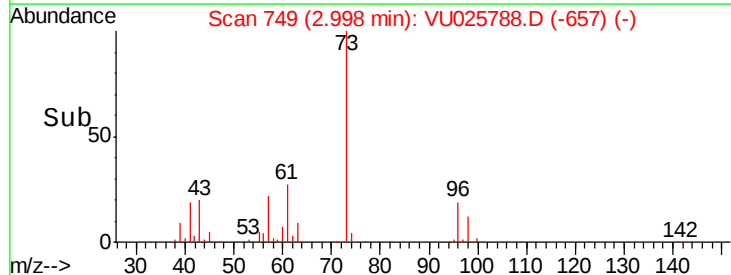
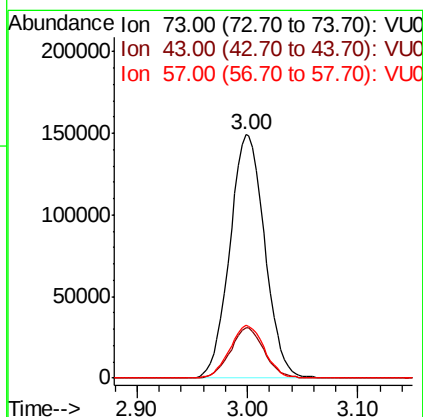
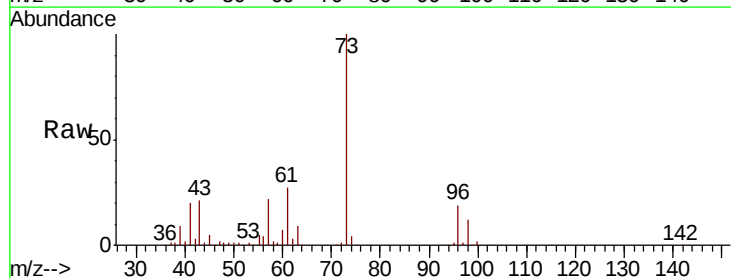
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

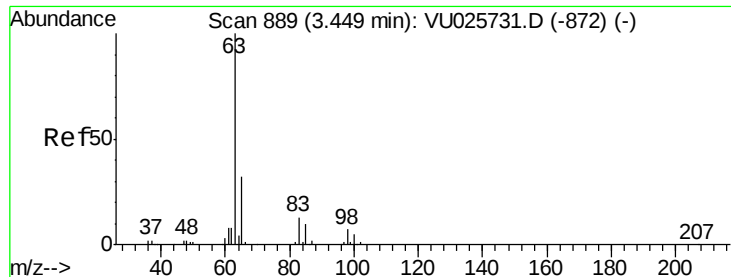
Tot Ion: 96 Resp: 98331
Ion Ratio Lower Upper
96 100
61 138.7 100.0 185.8
98 62.2 44.7 83.1



#18
Methyl tert-butyl Ether
Concen: 46.62 ug/L
RT: 3.00 min Scan# 749
Delta R.T. -0.00 min
Lab File: VU025788.D
Acq: 02 Aug 2018 09:44

Tgt Ion: 73 Resp: 327142
Ion Ratio Lower Upper
73 100
43 20.2 16.2 24.2
57 21.5 17.1 25.7

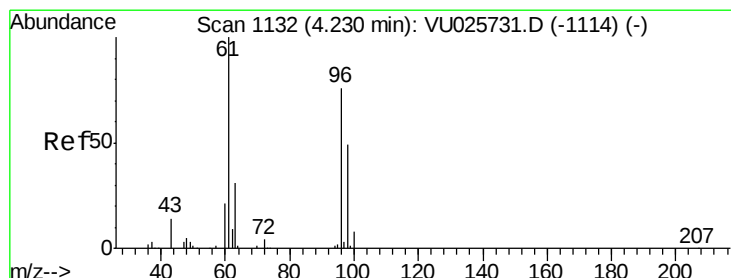
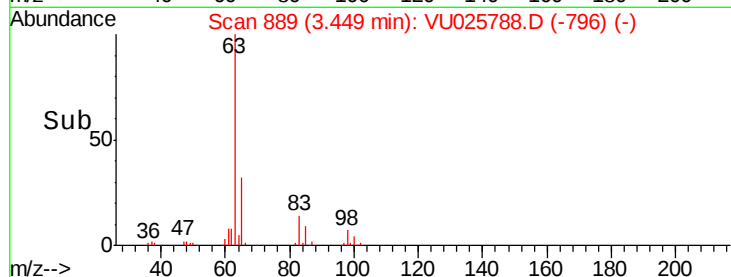
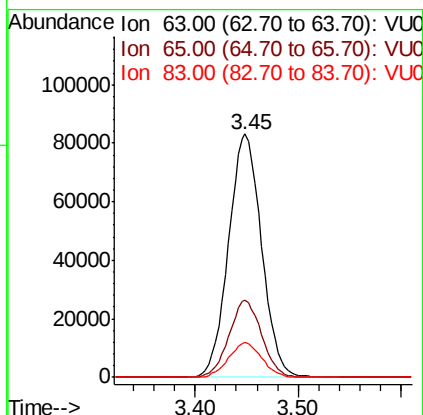
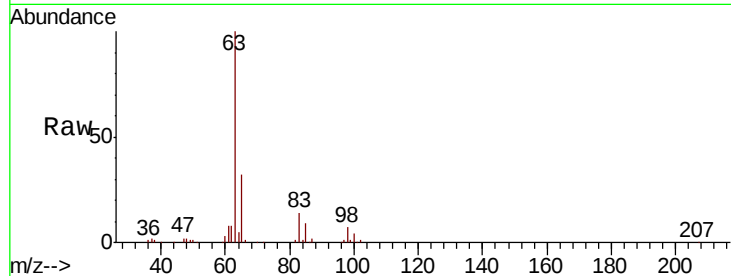




#19
 1,1-Dichloroethane
 Concen: 45.14 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

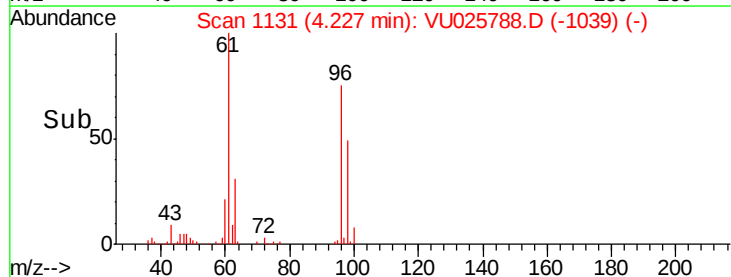
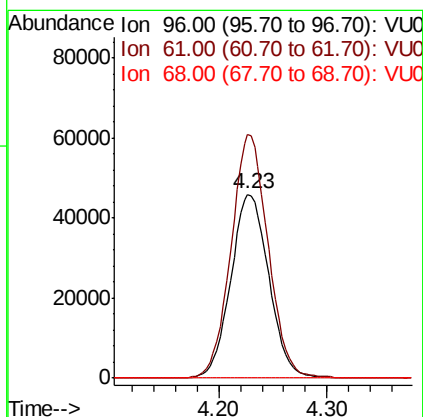
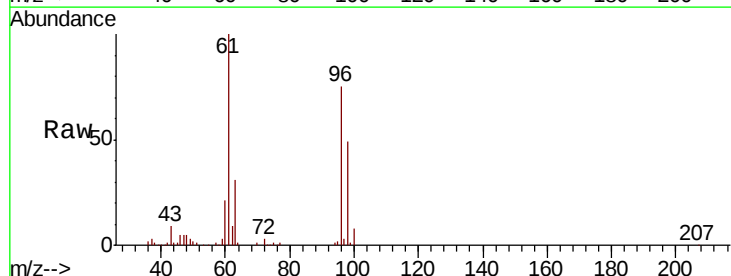
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

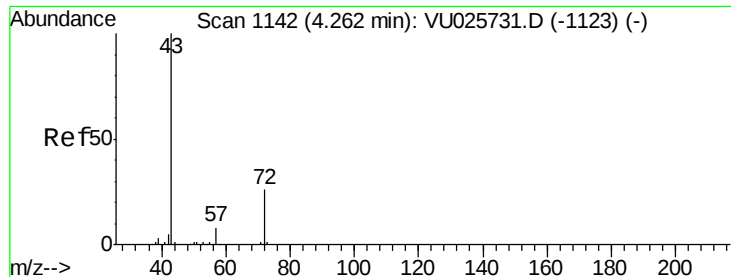
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.9	22.0	41.0
83	14.2	9.6	17.8



#20
 cis-1,2-Dichloroethene
 Concen: 46.41 ug/L
 RT: 4.23 min Scan# 1131
 Delta R.T. -0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

Tgt Ion	Ratio	Lower	Upper
96	100		
61	132.5	87.4	162.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 101.21 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

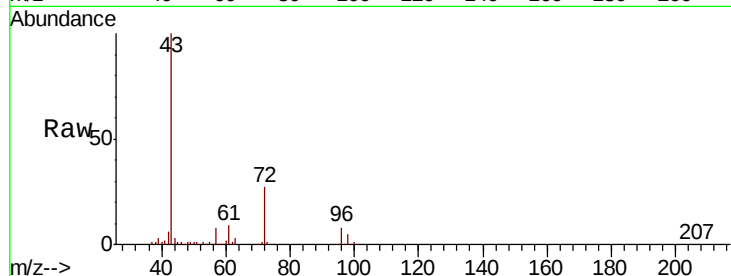
VSTD05047

Tot Ion: 43 Resp: 193282

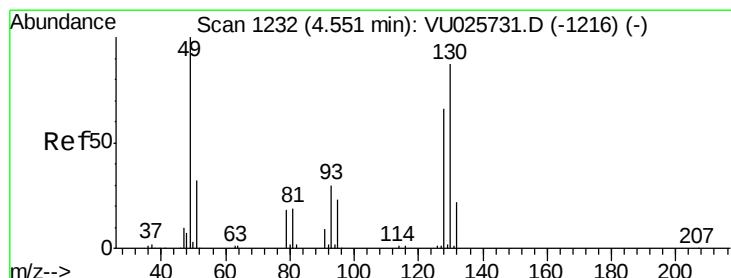
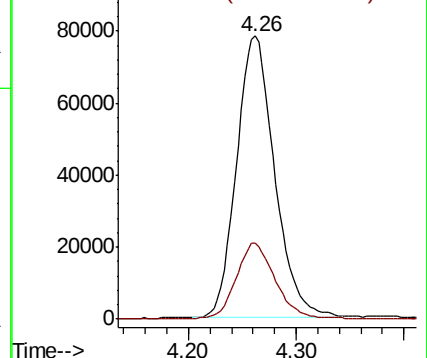
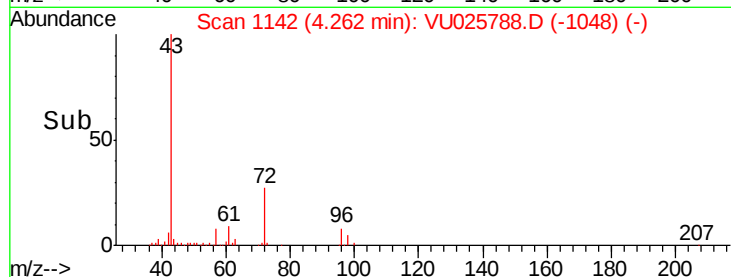
Ion Ratio Lower Upper

43 100

72 27.5 13.6 40.8



Abundance Ion 43.00 (42.70 to 43.70): VU025788.D (-1148) (-)



#23

Bromochloromethane

Concen: 45.79 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Tgt Ion:128 Resp: 58780

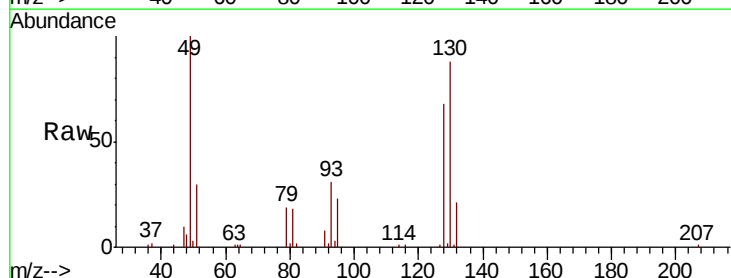
Ion Ratio Lower Upper

128 100

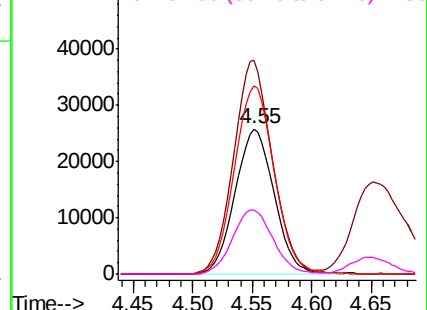
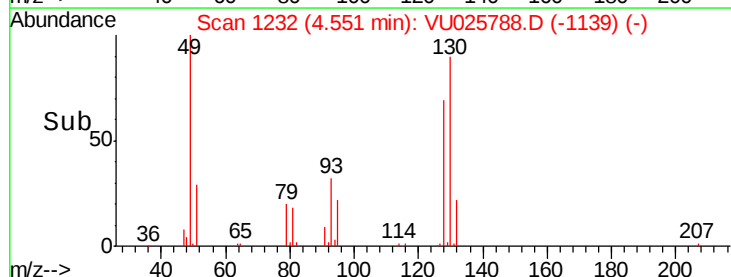
49 147.4 103.3 191.8

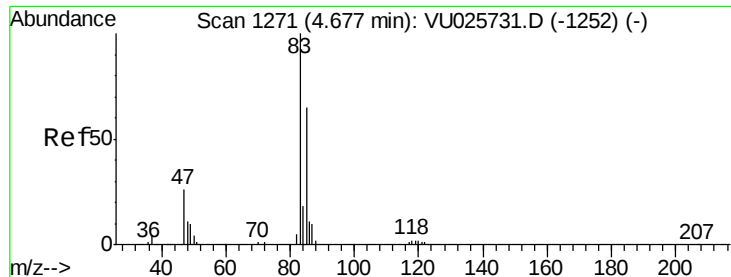
130 130.2 90.4 167.8

51 44.1 35.5 53.3



Abundance Ion 128.00 (127.70 to 128.70): VU025788.D (-1232) (-)





#25

Chloroform

Concen: 44.79 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

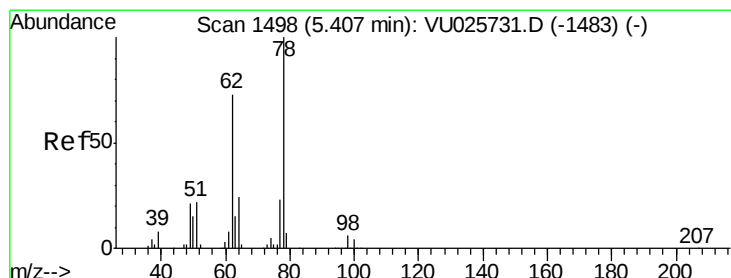
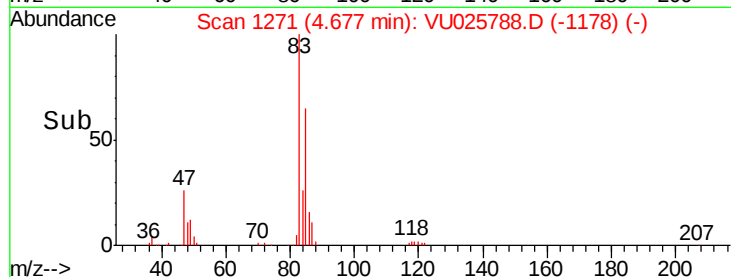
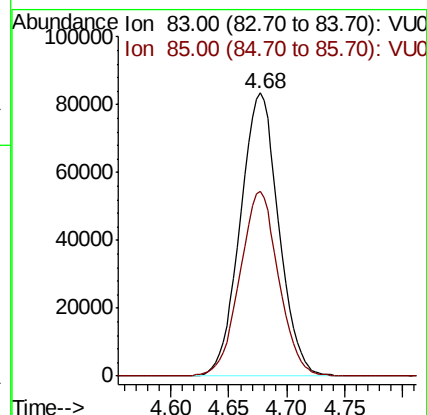
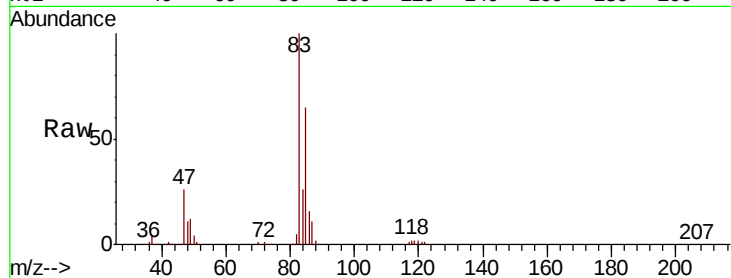
VSTD05047

Tot Ion: 83 Resp: 193180

Ion Ratio Lower Upper

83 100

85 65.2 45.0 83.6



#27

1,2-Dichloroethane

Concen: 45.56 ug/L

RT: 5.41 min Scan# 1498

Delta R.T. 0.00 min

Lab File: VU025788.D

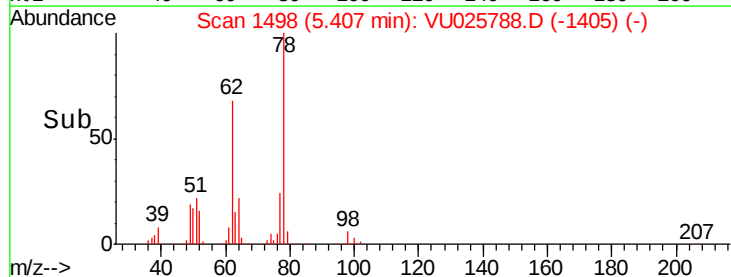
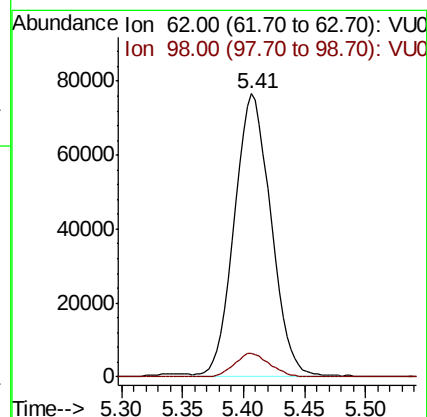
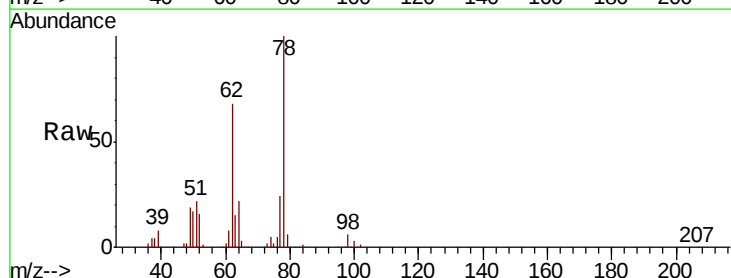
Acq: 02 Aug 2018 09:44

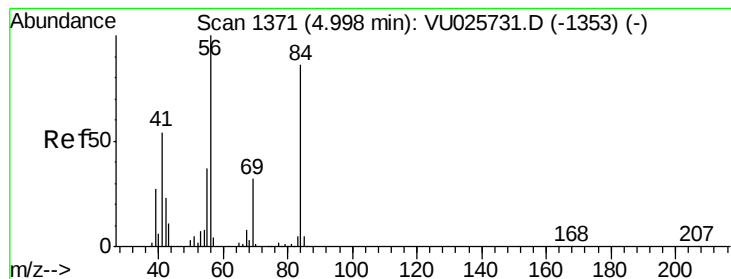
Tgt Ion: 62 Resp: 160280

Ion Ratio Lower Upper

62 100

98 8.4 6.5 9.7





#29

Cyclohexane

Concen: 44.55 ug/L

RT: 5.00 min Scan# 1372

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

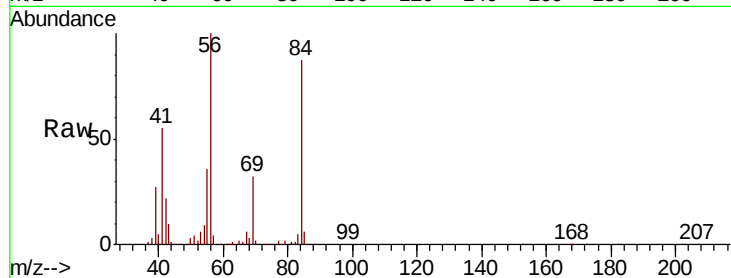
Tot Ion: 56 Resp: 160012

Ion Ratio Lower Upper

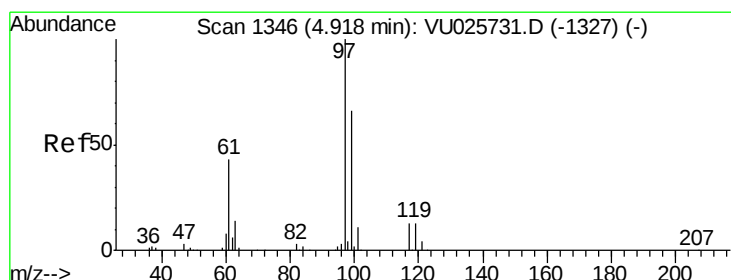
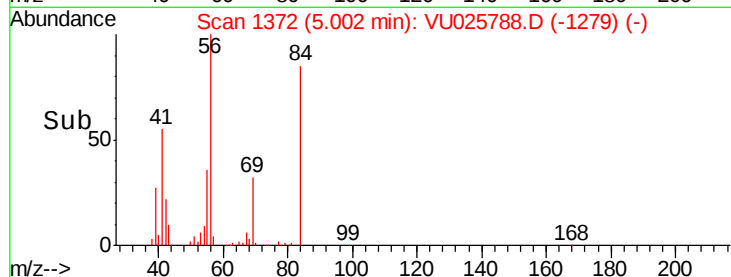
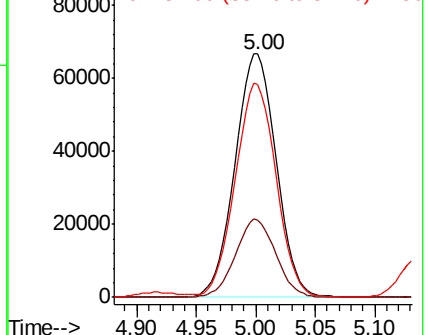
56 100

69 31.3 24.8 37.2

84 87.4 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: 46.09 ug/L

RT: 4.92 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

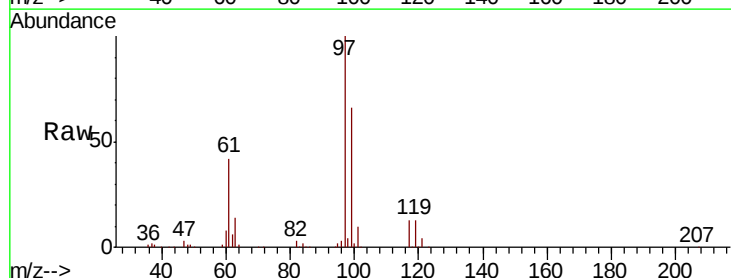
Tgt Ion: 97 Resp: 178802

Ion Ratio Lower Upper

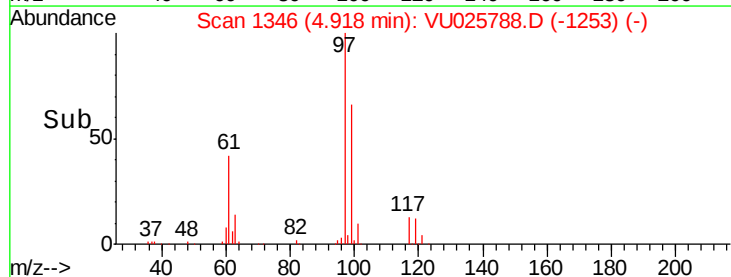
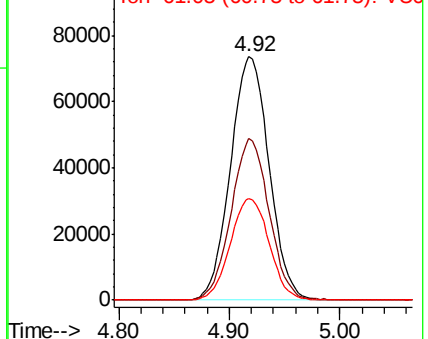
97 100

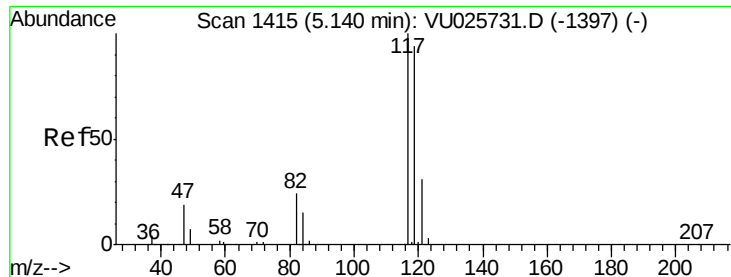
99 65.2 52.4 78.6

61 42.0 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: 45.53 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

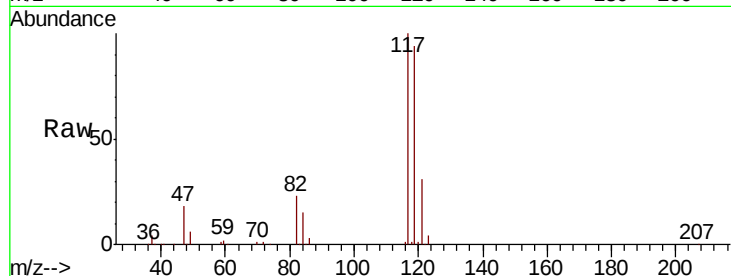
VSTD05047

Tot Ion:117 Resp: 163319

Ion Ratio Lower Upper

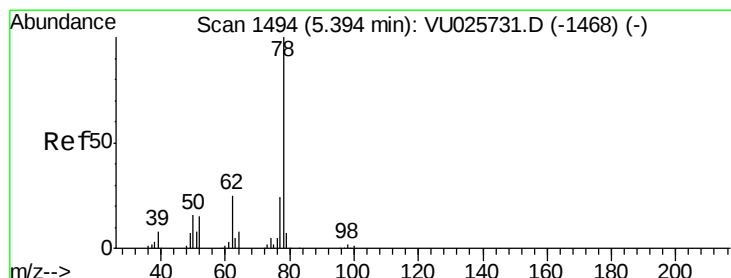
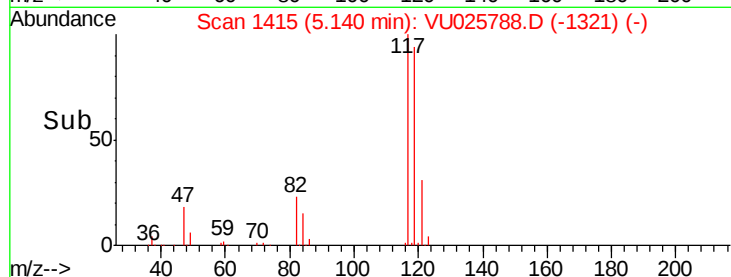
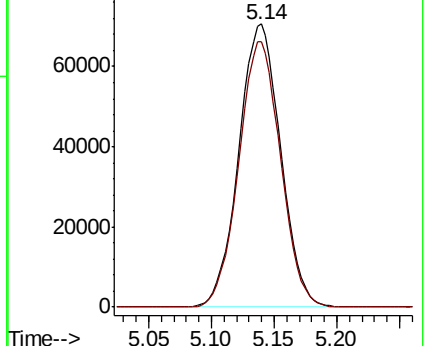
117 100

119 93.8 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: 44.71 ug/L

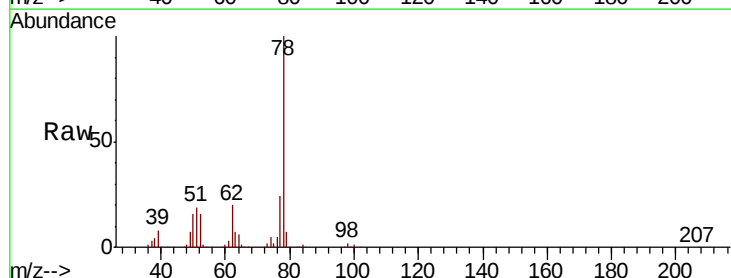
RT: 5.39 min Scan# 1493

Delta R.T. -0.00 min

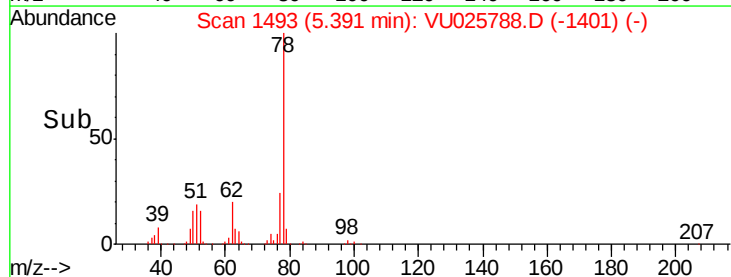
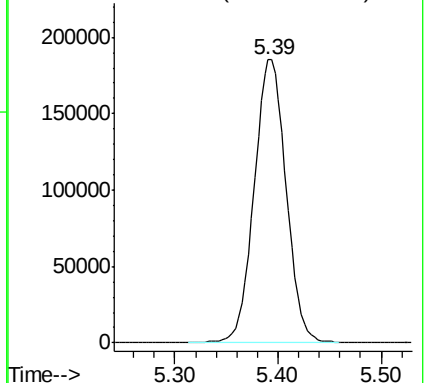
Lab File: VU025788.D

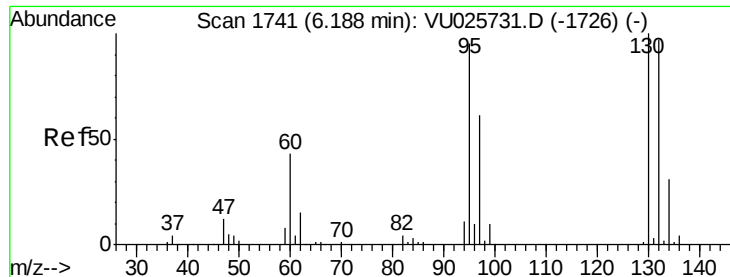
Acq: 02 Aug 2018 09:44

Tgt Ion: 78 Resp: 398235



Abundance Ion 78.00 (77.70 to 78.70): VU0

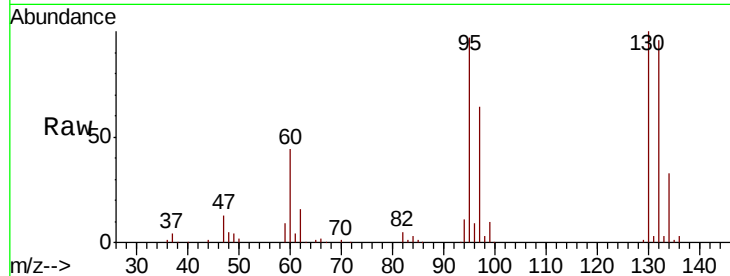




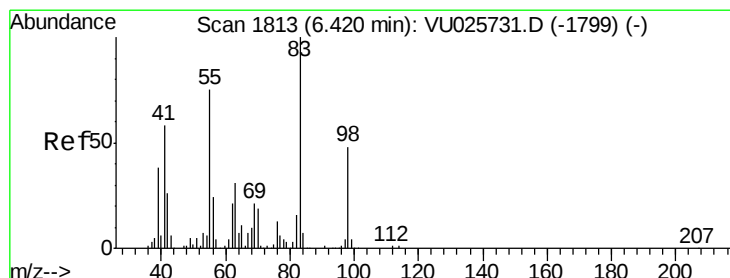
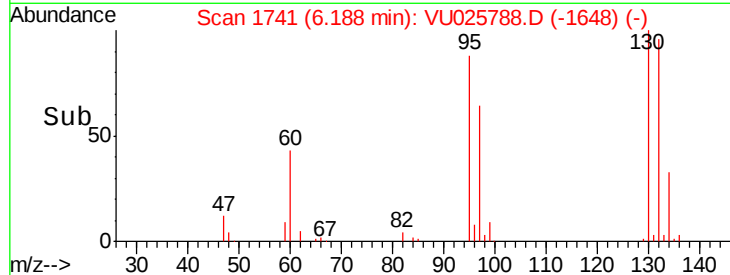
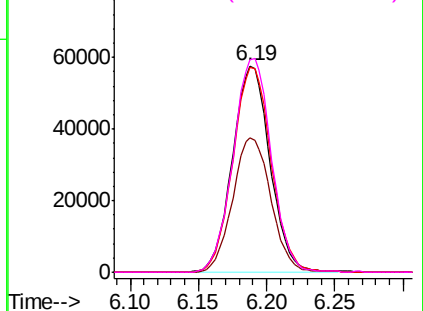
#34
 Trichloroethene
 Concen: 46.75 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tot Ion: 95 Resp: 110487
 Ion Ratio Lower Upper
 95 100
 97 65.5 45.9 85.3
 132 99.2 72.2 134.2
 130 102.8 74.9 139.1

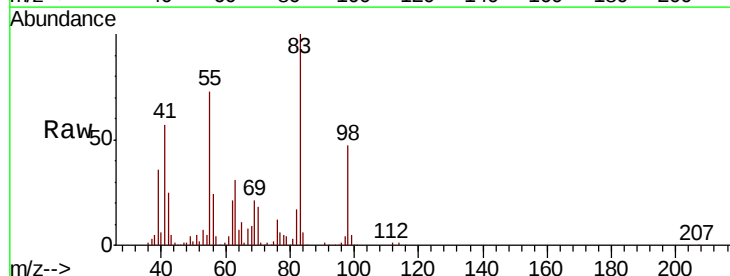


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

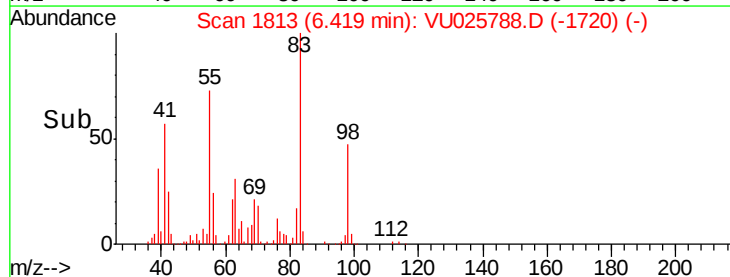
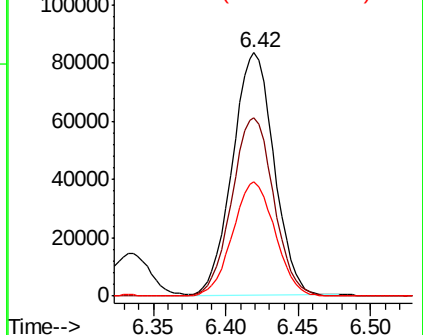


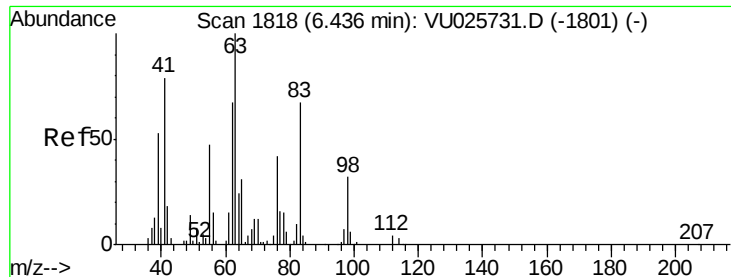
#35
 Methylcyclohexane
 Concen: 43.59 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

Tgt Ion: 83 Resp: 166127
 Ion Ratio Lower Upper
 83 100
 55 74.2 61.1 91.7
 98 47.9 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: 44.75 ug/L

RT: 6.44 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

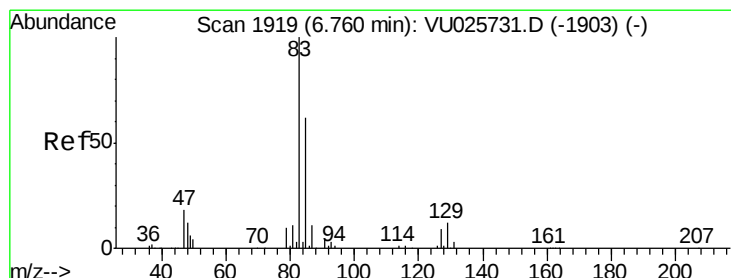
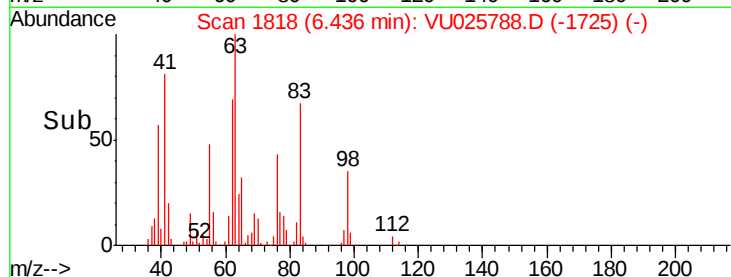
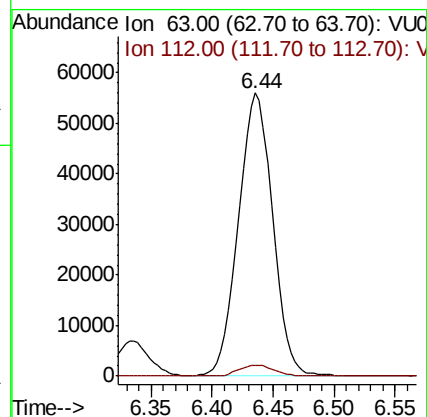
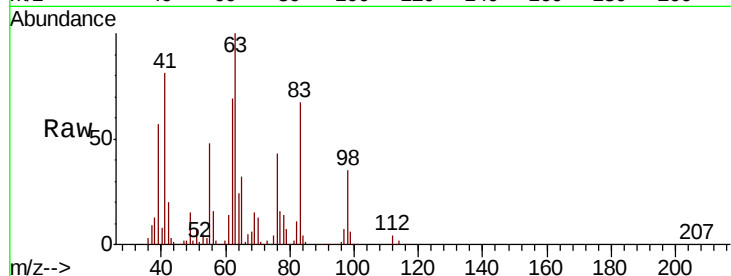
VSTD05047

Tot Ion: 63 Resp: 108931

Ion Ratio Lower Upper

63 100

112 4.0 3.3 4.9



#38

Bromodichloromethane

Concen: 46.41 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

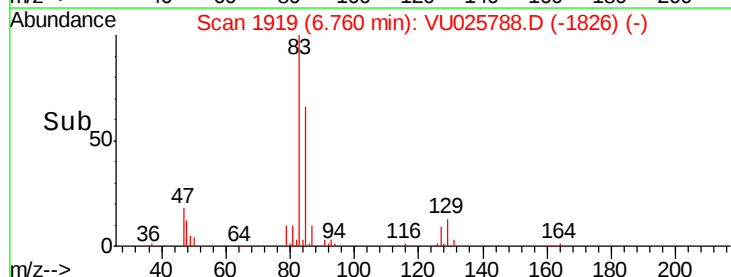
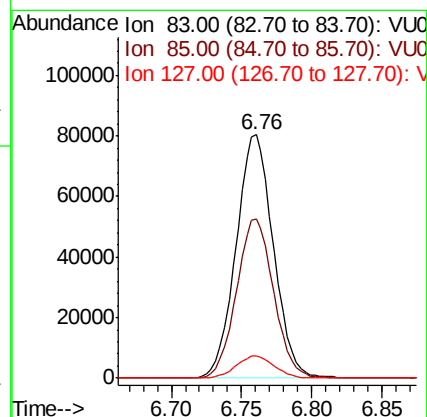
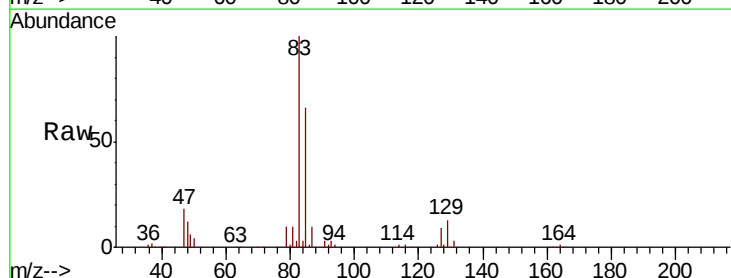
Tgt Ion: 83 Resp: 148947

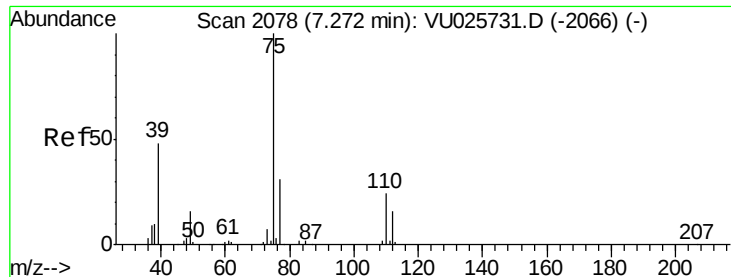
Ion Ratio Lower Upper

83 100

85 65.5 46.7 86.7

127 9.2 8.0 12.0

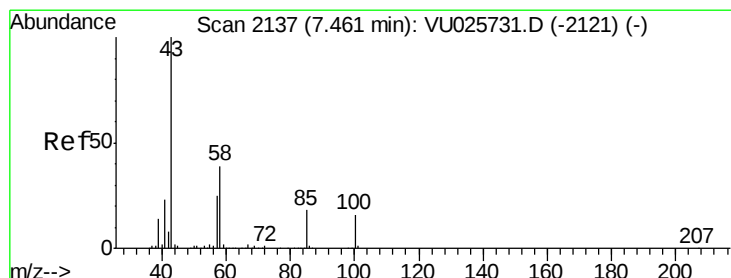
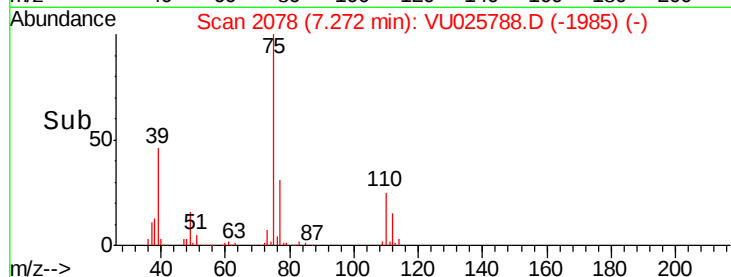
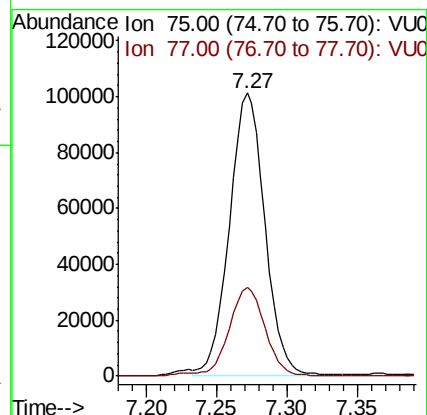
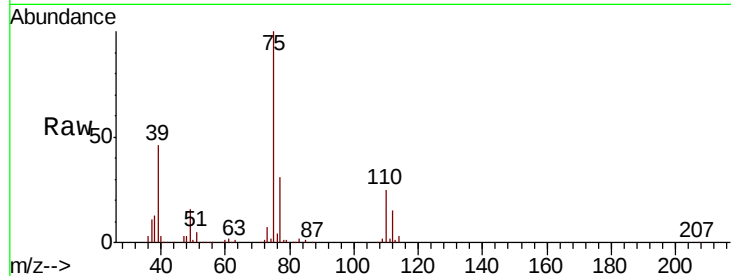




#39
 cis-1,3-Dichloropropene
 Concen: 47.10 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

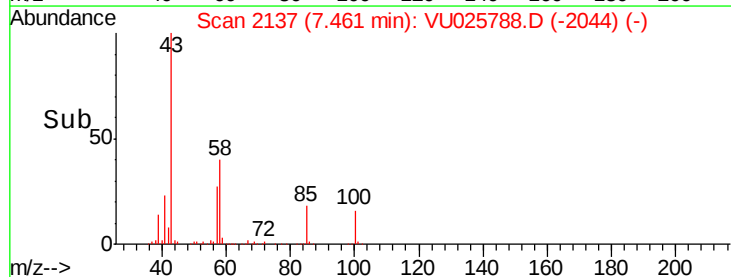
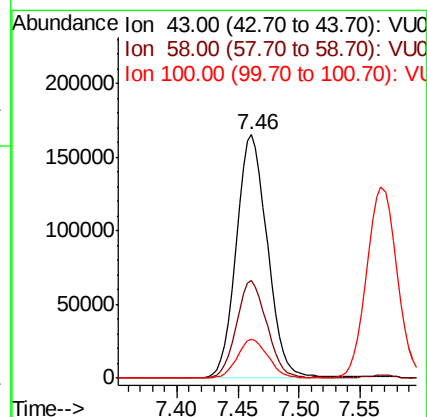
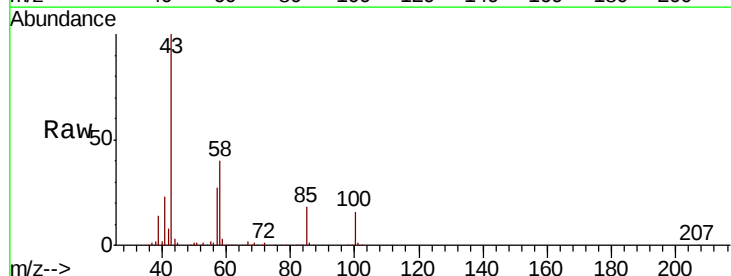
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

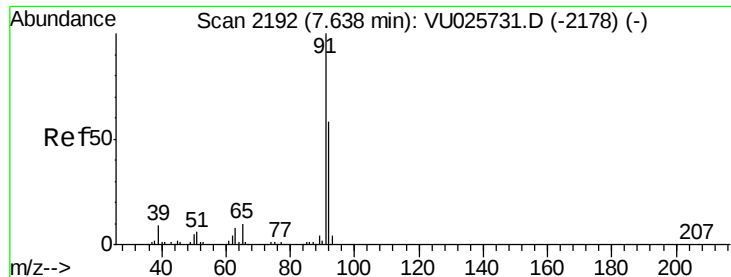
Tot Ion: 75 Resp: 177918
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 91.88 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

Tgt Ion: 43 Resp: 293690
 Ion Ratio Lower Upper
 43 100
 58 39.1 30.8 46.2
 100 15.7 12.1 18.1





#42

Toluene

Concen: 46.11 ug/L

RT: 7.64 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

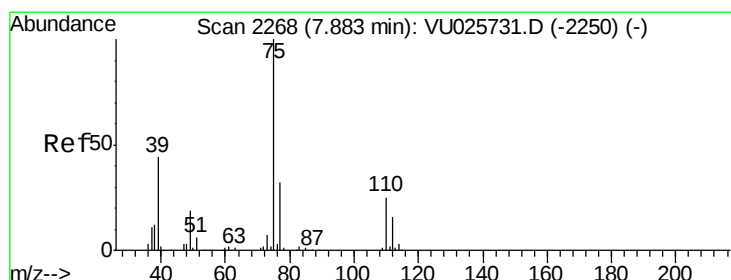
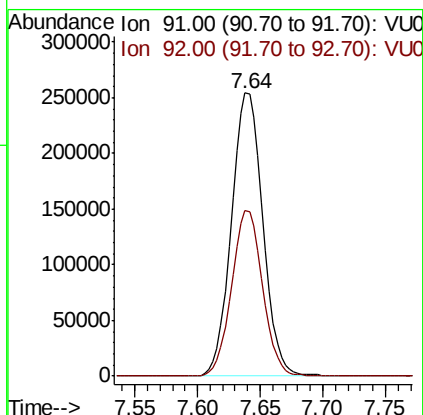
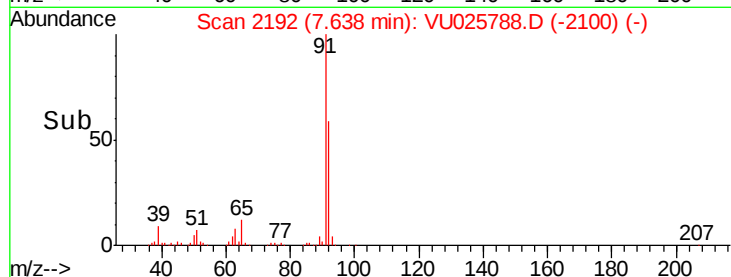
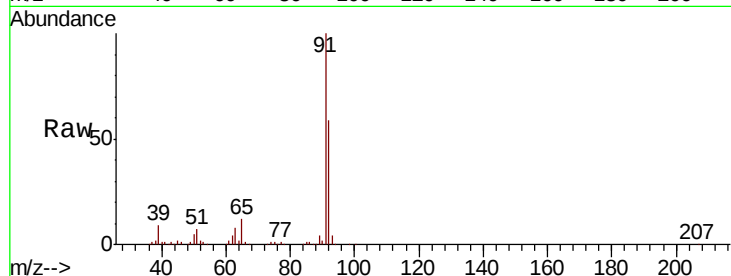
VSTD05047

Tot Ion: 91 Resp: 442912

Ion Ratio Lower Upper

91 100

92 58.5 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 48.37 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025788.D

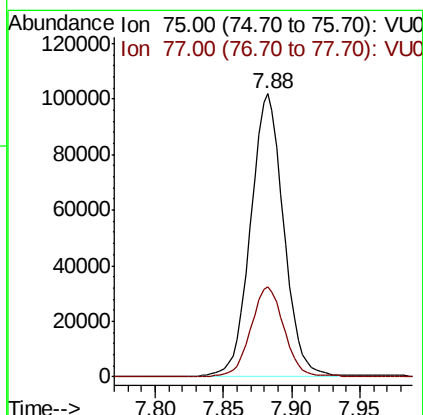
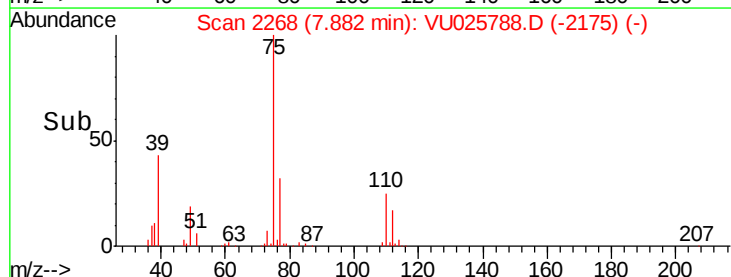
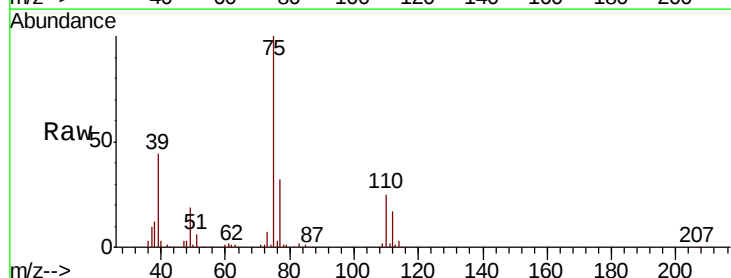
Acq: 02 Aug 2018 09:44

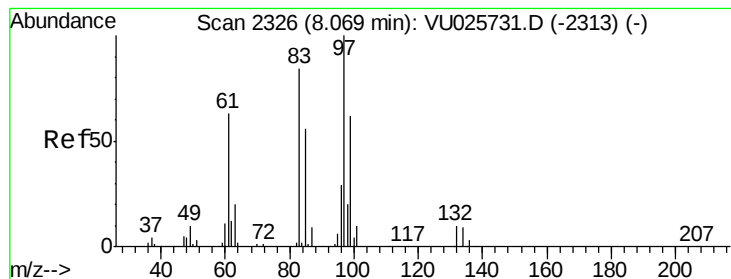
Tgt Ion: 75 Resp: 172259

Ion Ratio Lower Upper

75 100

77 31.8 22.2 41.2





#45

1,1,2-Trichloroethane

Concen: 44.62 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

Tot Ion: 97 Resp: 104184

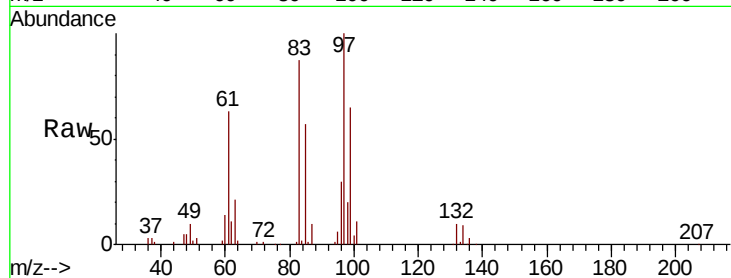
Ion Ratio Lower Upper

97 100

99 64.9 44.3 82.3

83 86.9 59.8 111.1

85 57.4 37.9 70.5

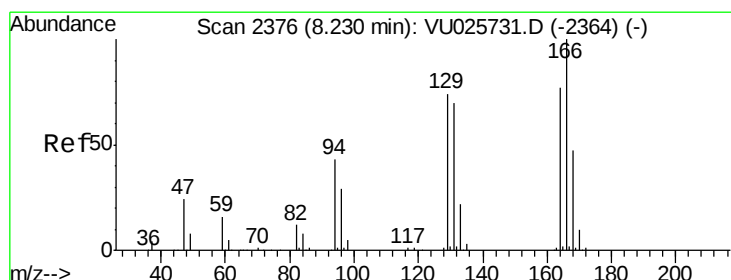
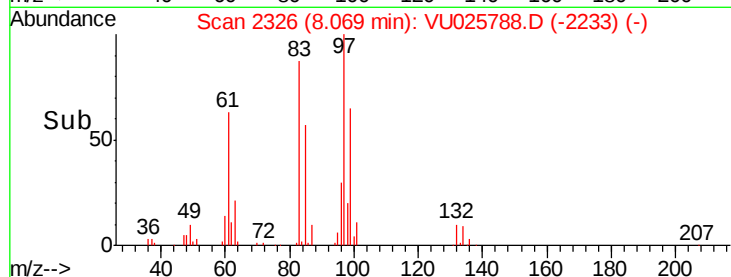
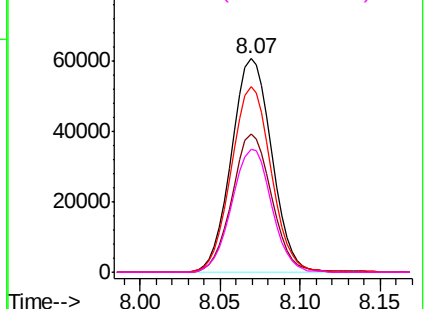


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 47.70 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Tgt Ion:164 Resp: 97743

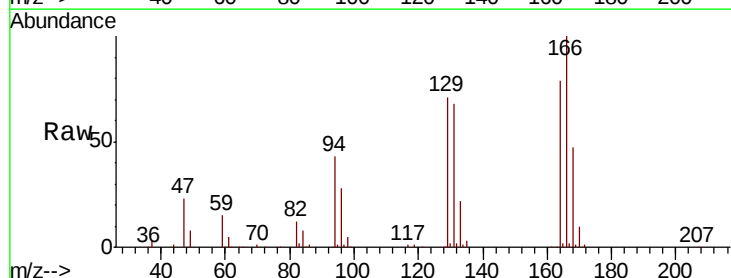
Ion Ratio Lower Upper

164 100

129 90.4 65.1 120.9

131 86.5 62.8 116.6

166 127.1 89.7 166.7

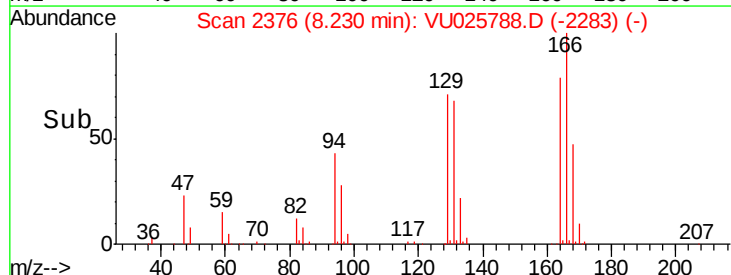
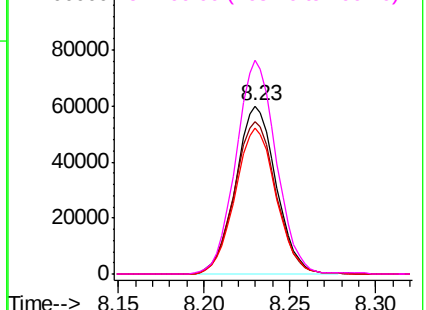


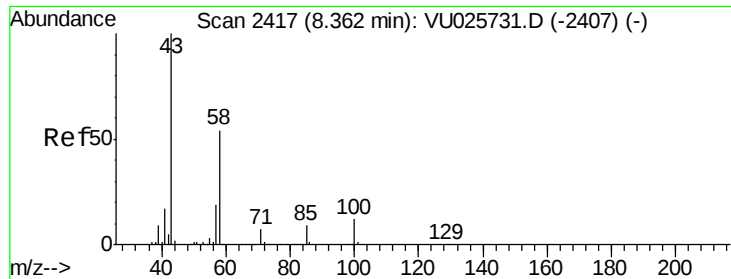
Abundance Ion 164.00 (163.70 to 164.70): V

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

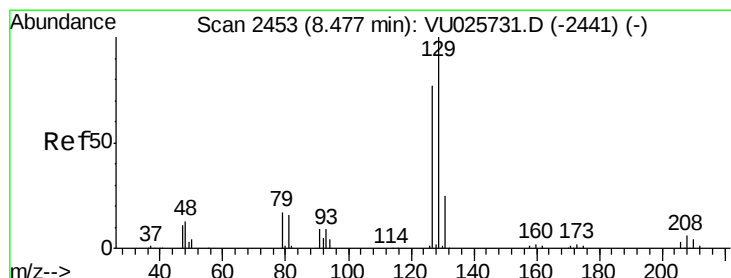
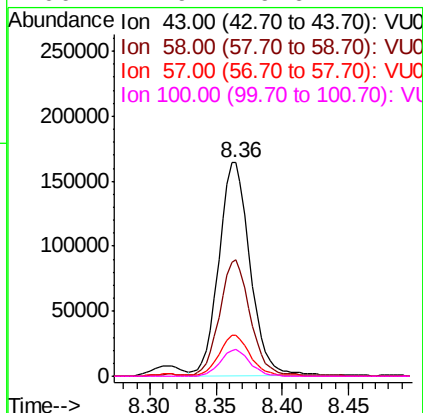
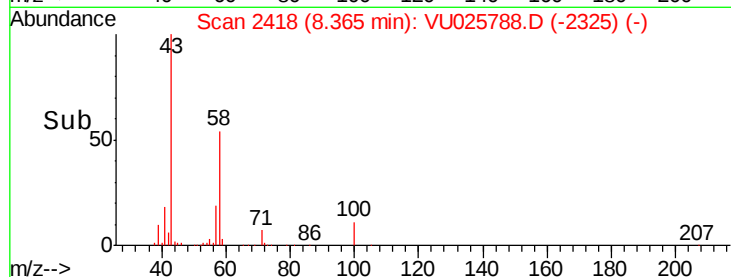
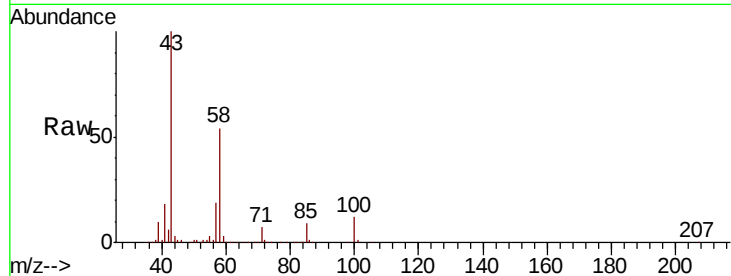




#48
2-Hexanone
Concen: 99.08 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025788.D
Acq: 02 Aug 2018 09:44

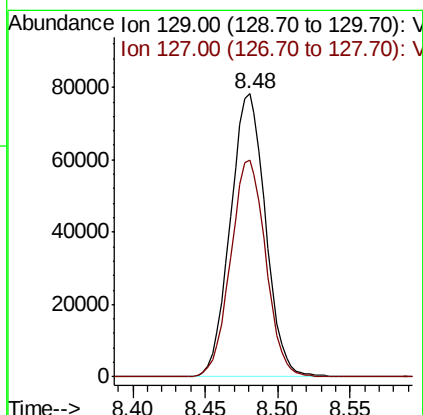
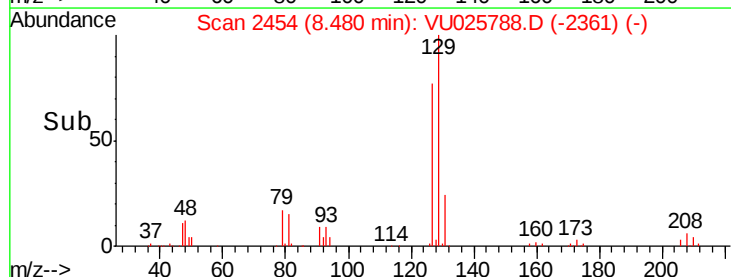
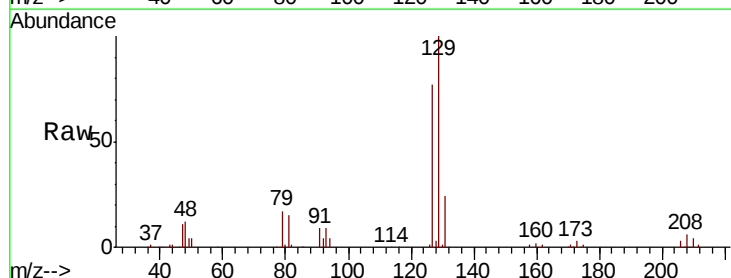
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

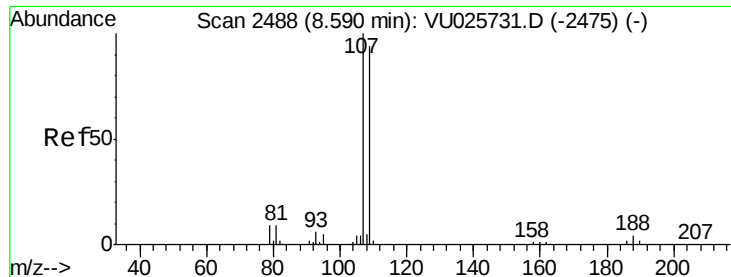
Tot Ion:	43	Resp:	267622
Ion	Ratio	Lower	Upper
43	100		
58	52.9	42.9	64.3
57	19.2	15.4	23.2
100	11.9	9.6	14.4



#49
Dibromochloromethane
Concen: 48.21 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025788.D
Acq: 02 Aug 2018 09:44

Tgt Ion:	129	Resp:	132031
Ion	Ratio	Lower	Upper
129	100		
127	76.8	53.8	100.0

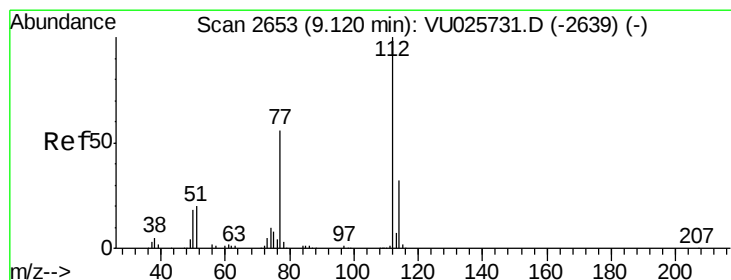
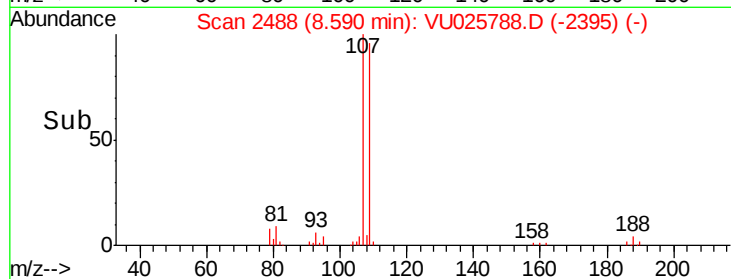
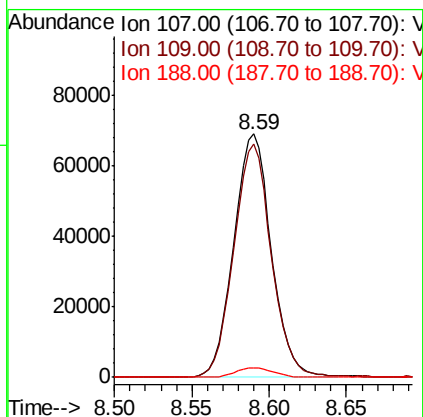
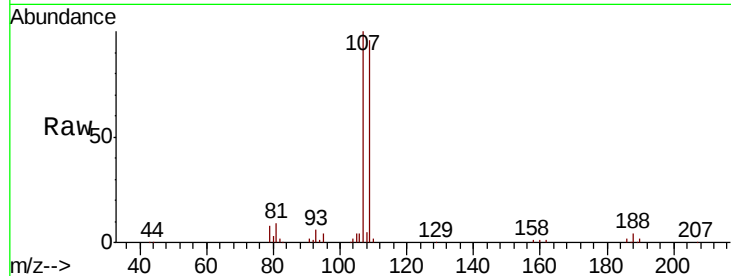




#50
 1,2-Dibromoethane
 Concen: 46.18 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. 0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

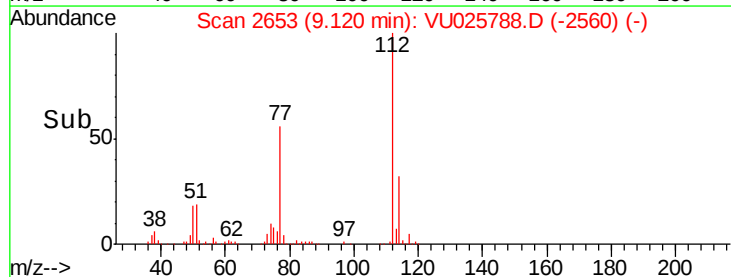
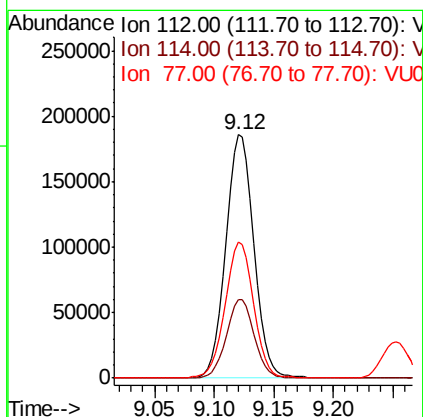
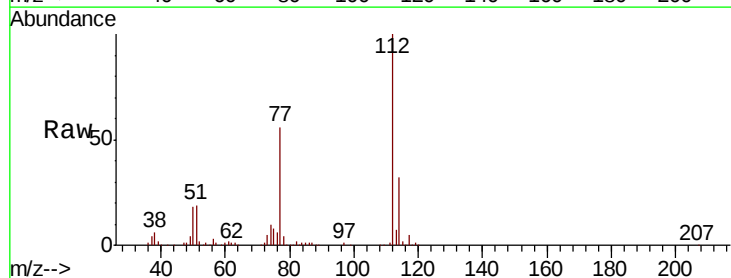
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

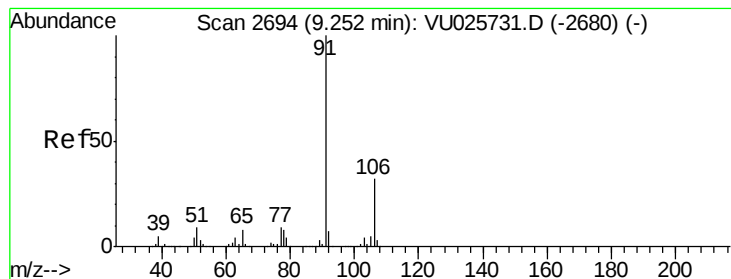
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.8	66.6	123.8
188	4.0	3.2	4.8



#51
 Chlorobenzene
 Concen: 47.19 ug/L
 RT: 9.12 min Scan# 2653
 Delta R.T. 0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.5	41.9
77	56.1	45.8	68.8





#52

Ethylbenzene

Concen: 47.48 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

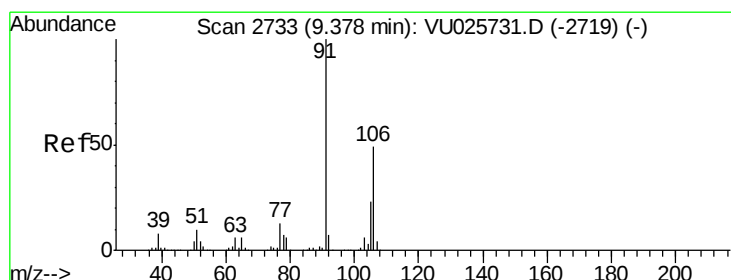
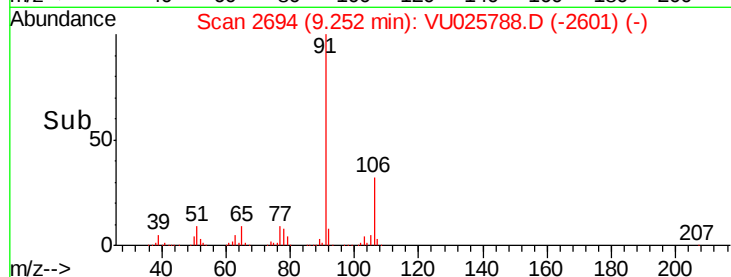
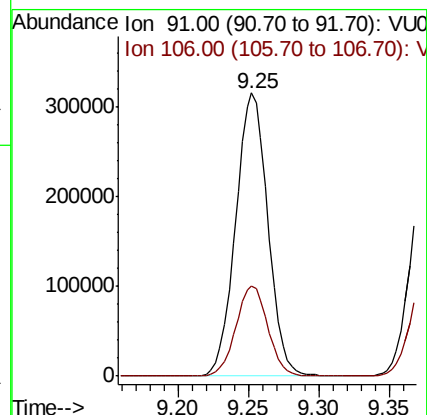
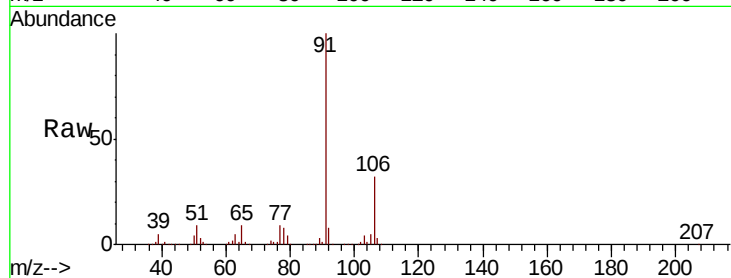
VSTD05047

Tot Ion: 91 Resp: 503410

Ion Ratio Lower Upper

91 100

106 32.0 22.3 41.5



#53

m,p-Xylene

Concen: 48.30 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025788.D

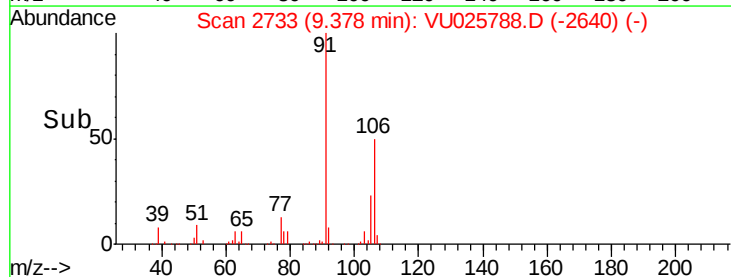
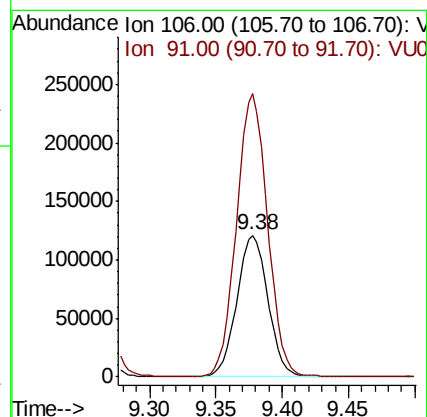
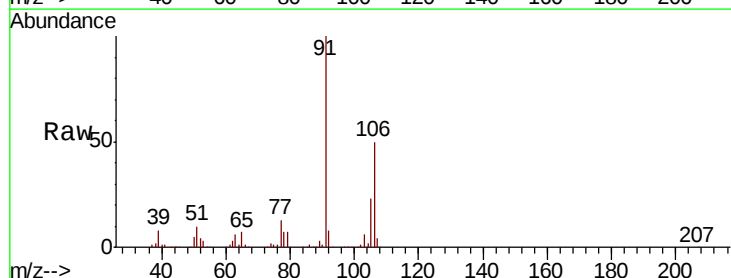
Acq: 02 Aug 2018 09:44

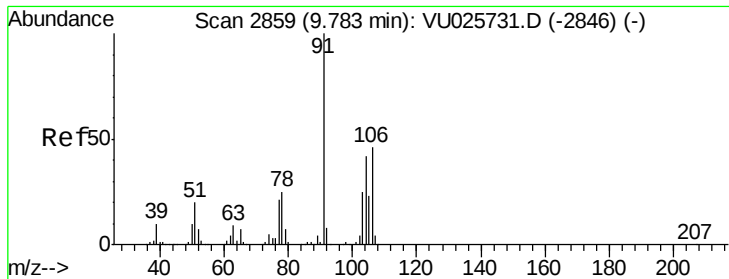
Tgt Ion: 106 Resp: 196154

Ion Ratio Lower Upper

106 100

91 199.7 141.7 263.3





#54

o-xylene

Concen: 46.04 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

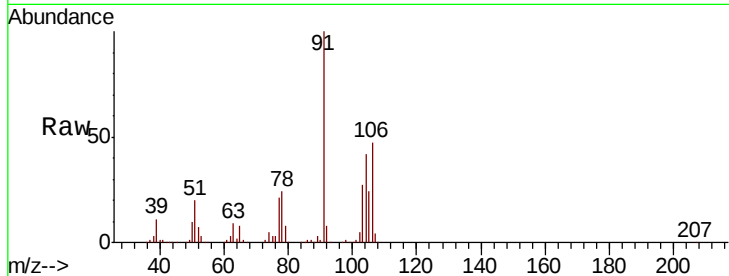
VSTD05047

Tot Ion:106 Resp: 189728

Ion Ratio Lower Upper

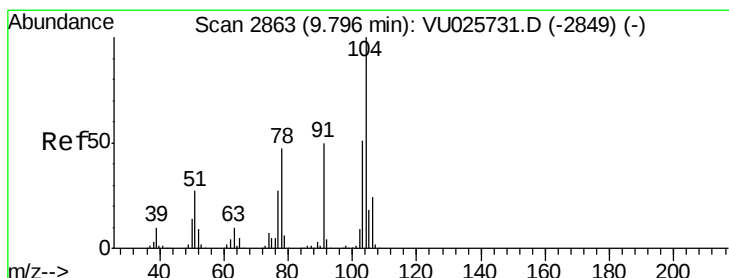
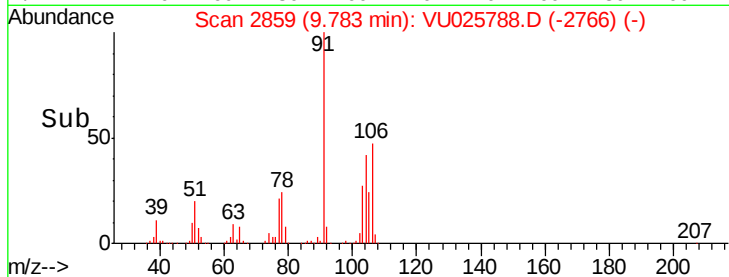
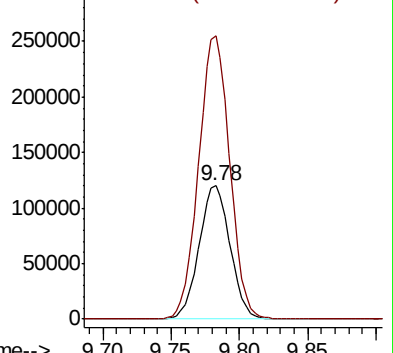
106 100

91 212.4 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 48.88 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU025788.D

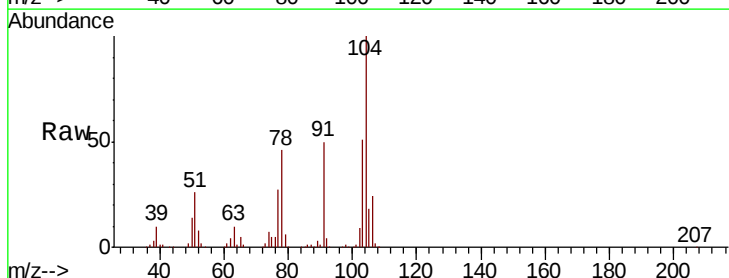
Acq: 02 Aug 2018 09:44

Tgt Ion:104 Resp: 328029

Ion Ratio Lower Upper

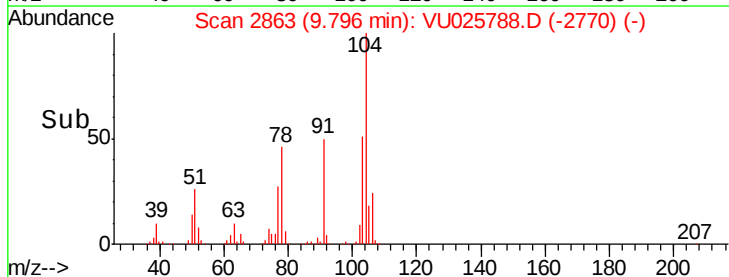
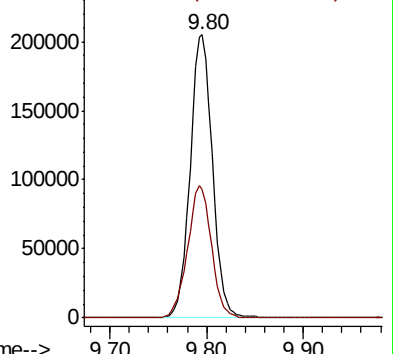
104 100

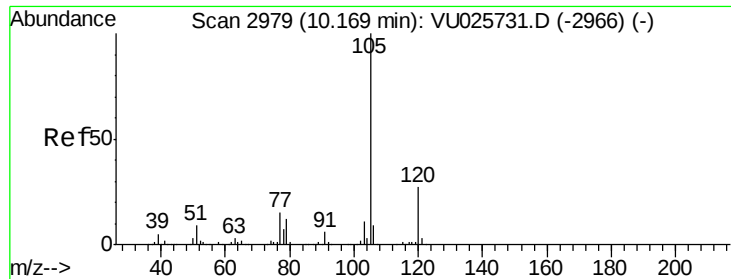
78 45.5 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 47.70 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

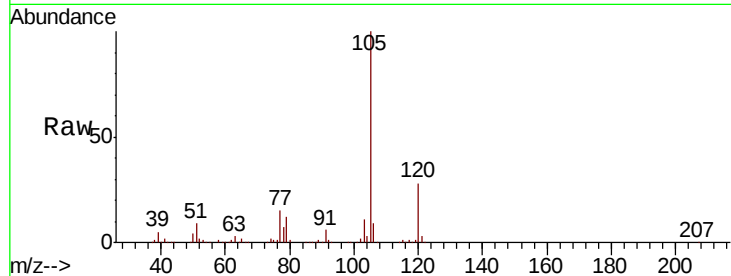
Tot Ion:105 Resp: 507309

Ion Ratio Lower Upper

105 100

120 27.5 21.7 32.5

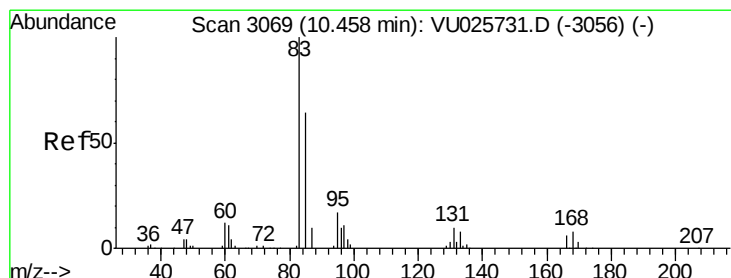
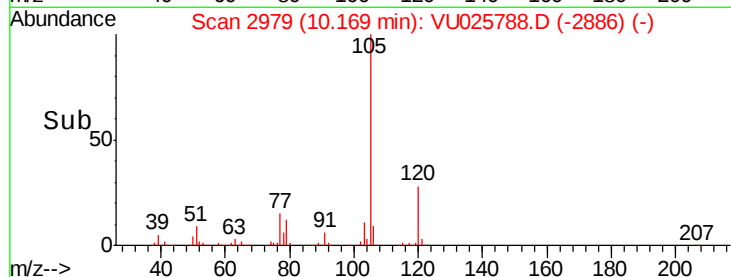
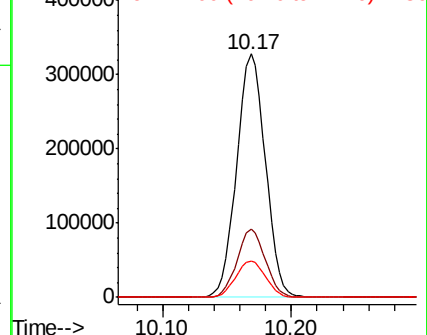
77 15.5 12.4 18.6



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: 45.21 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

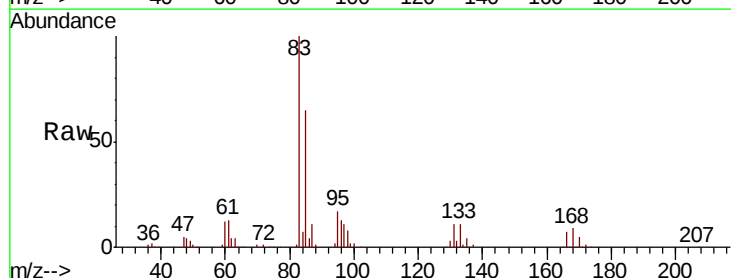
Tgt Ion: 83 Resp: 170248

Ion Ratio Lower Upper

83 100

85 65.1 45.1 83.7

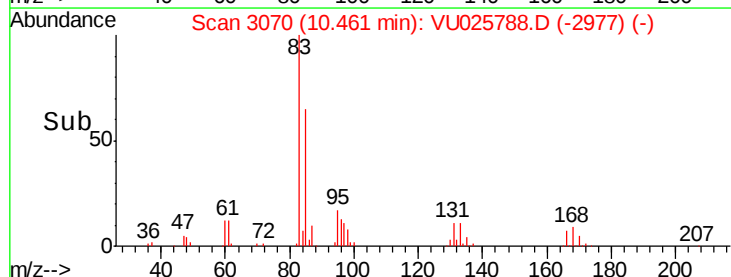
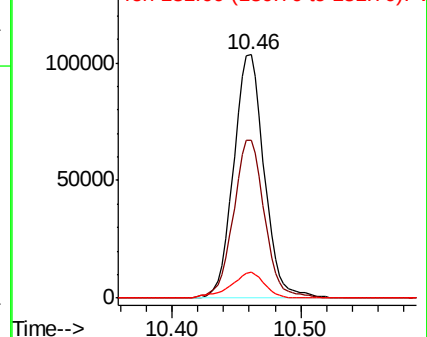
131 10.6 8.7 13.1

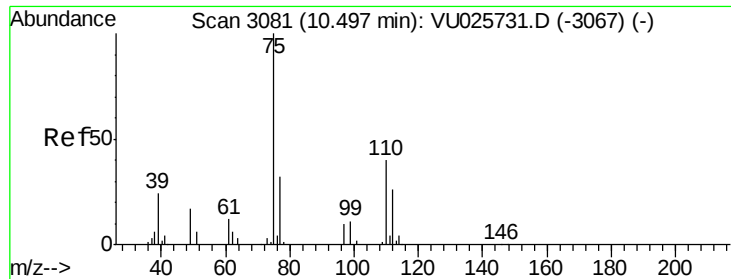


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

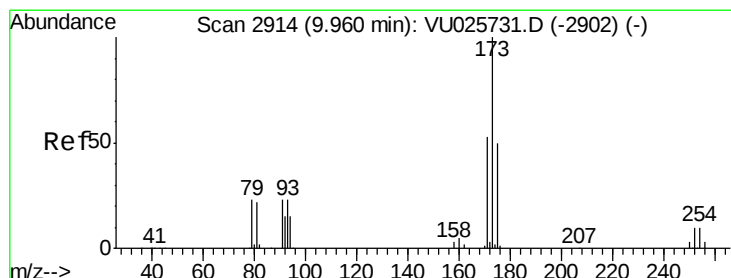
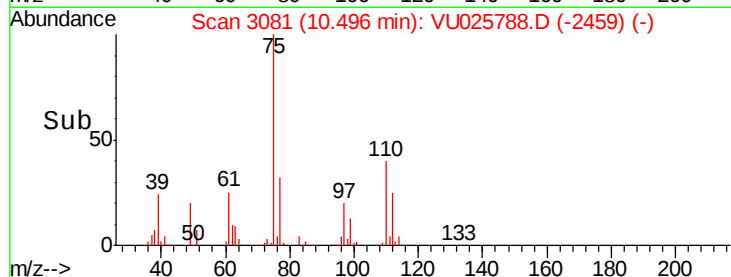
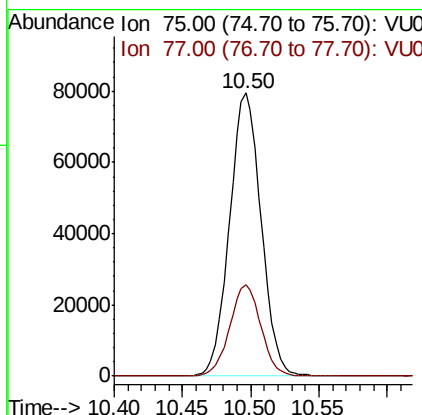
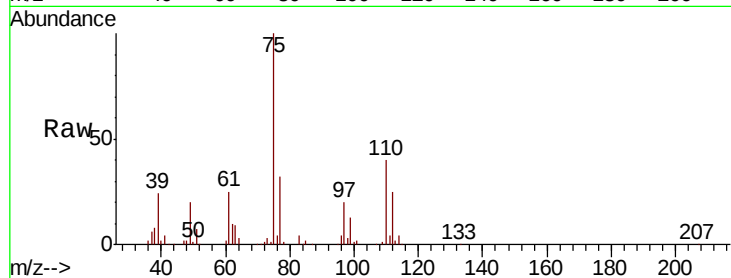




#59
 1,2,3-Trichloropropane
 Concen: 44.61 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

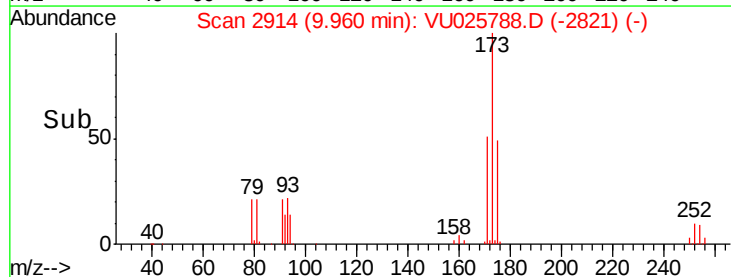
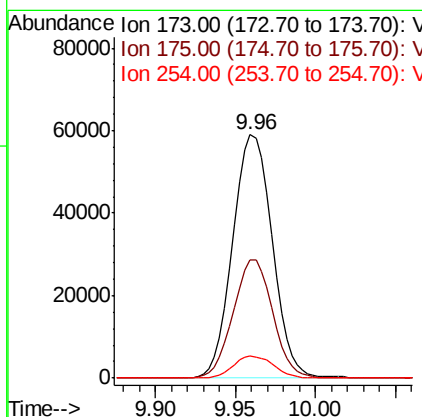
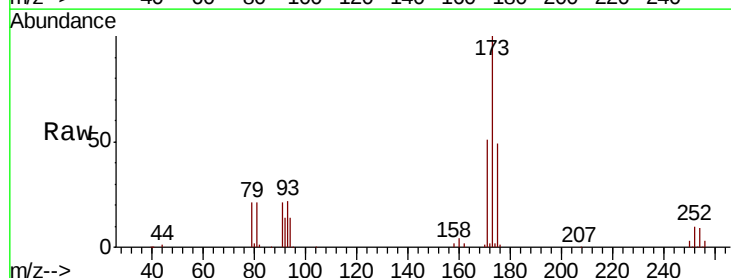
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

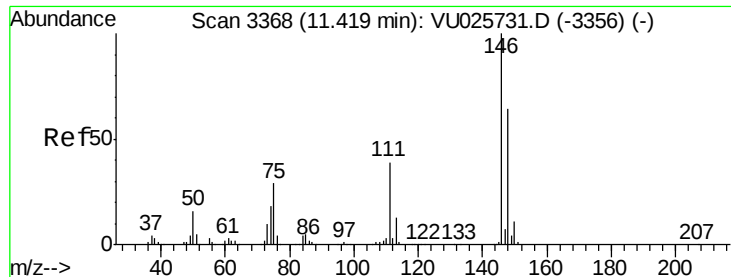
Tot Ion: 75 Resp: 127529
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.8 38.8



#61
 Bromoform
 Concen: 44.57 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. 0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

Tgt Ion: 173 Resp: 99648
 Ion Ratio Lower Upper
 173 100
 175 48.5 39.8 59.8
 254 9.2 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 46.44 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

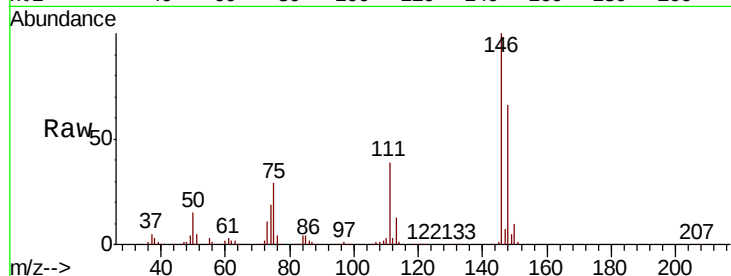
Tot Ion:146 Resp: 253900

Ion Ratio Lower Upper

146 100

111 39.5 27.7 51.5

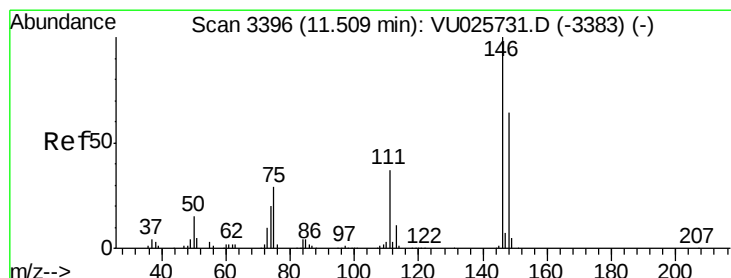
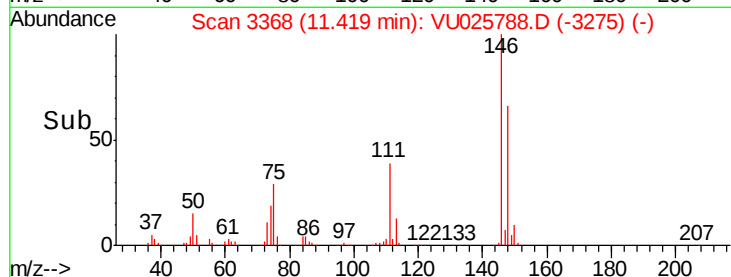
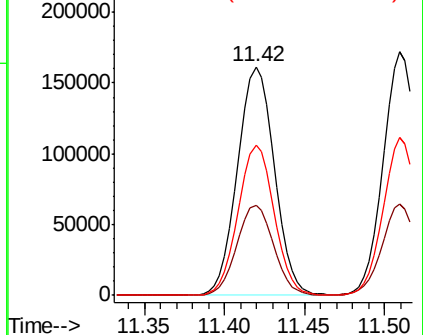
148 65.8 45.5 84.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 46.90 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

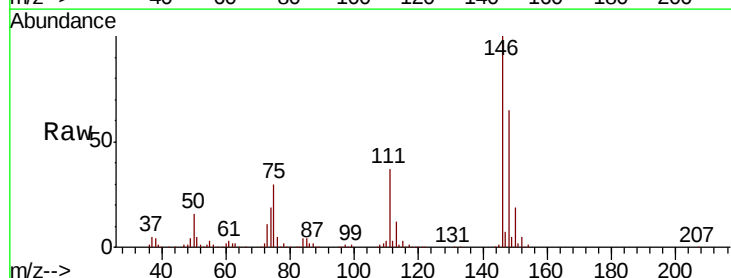
Tgt Ion:146 Resp: 261747

Ion Ratio Lower Upper

146 100

111 37.4 26.9 49.9

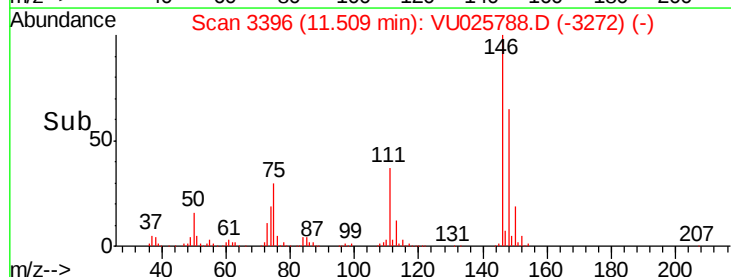
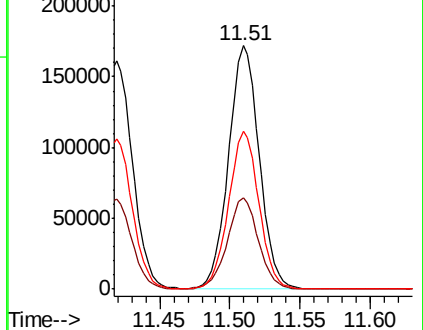
148 64.9 44.6 82.8

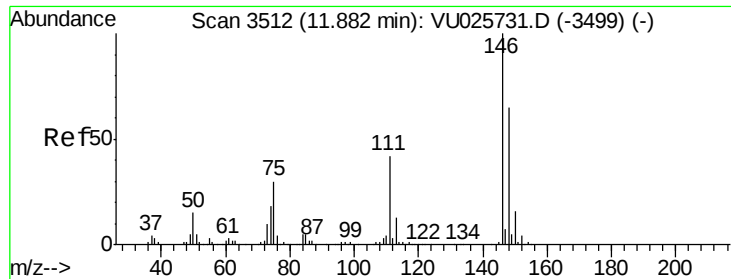


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

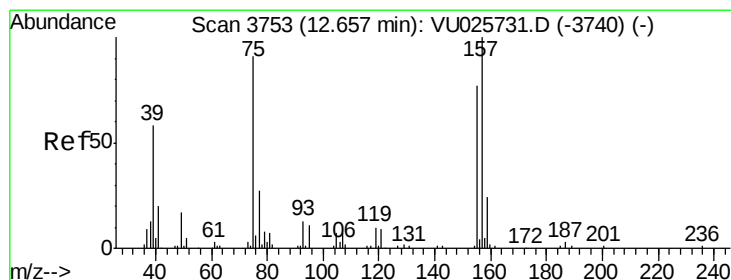
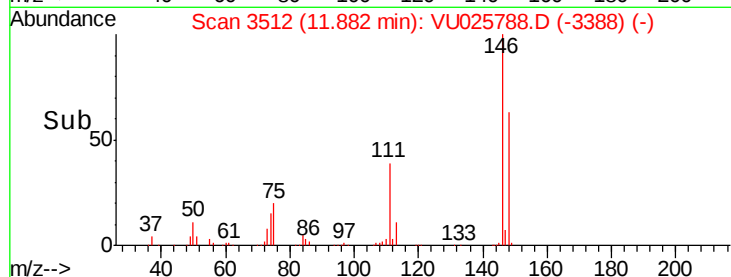
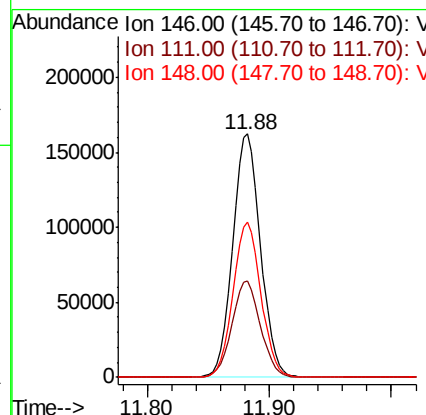
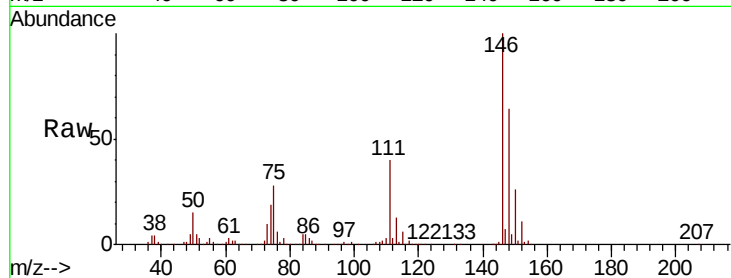




#65
 1,2-Dichlorobenzene
 Concen: 45.04 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

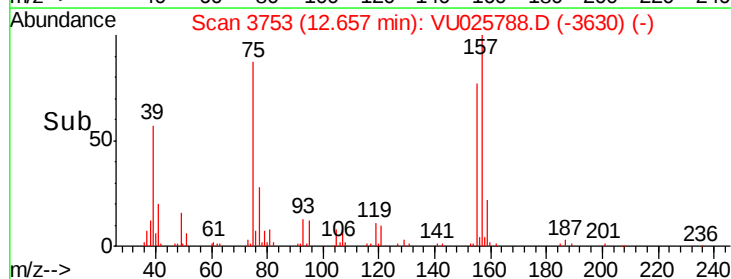
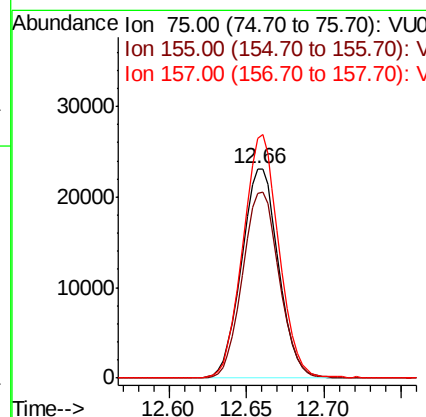
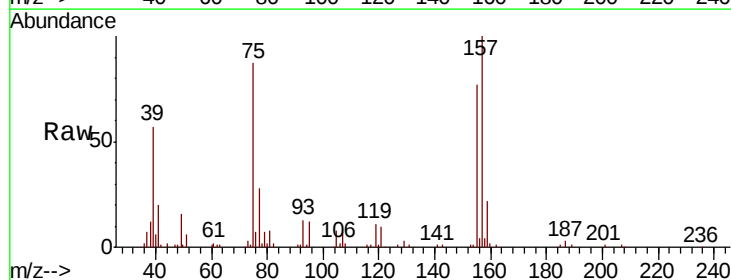
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

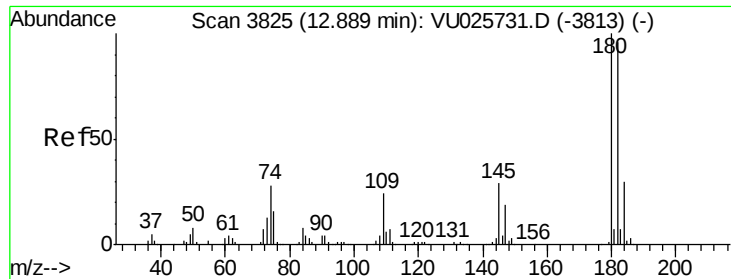
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	32.4	48.6
148	63.6	50.7	76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 42.58 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. -0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.4	66.3	99.5
157	114.4	91.5	137.3

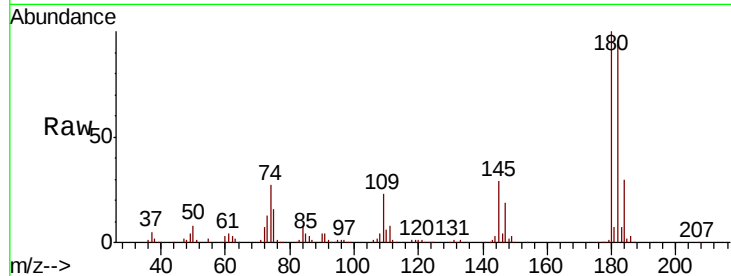




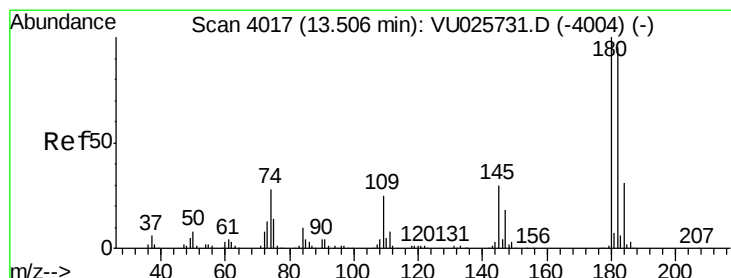
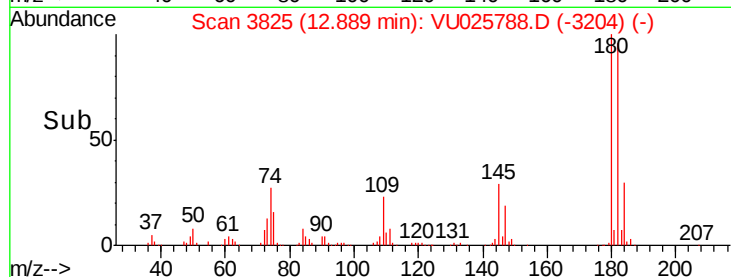
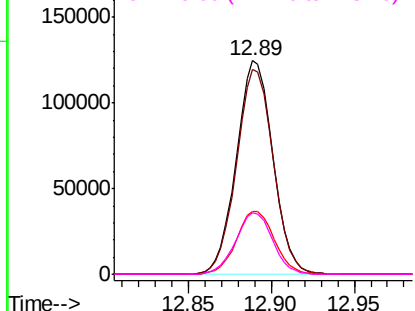
#67
 1,3,5-Trichlorobenzene
 Concen: 45.24 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tot Ion:180	Resp:	190922
Ion Ratio	Lower	Upper
180	100	
182	96.5	77.3 115.9
184	30.6	24.6 36.8
145	29.1	23.0 34.6

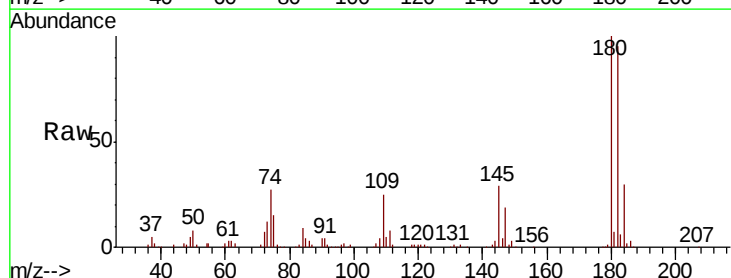


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

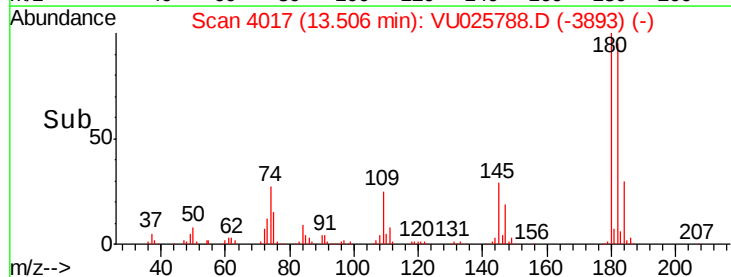
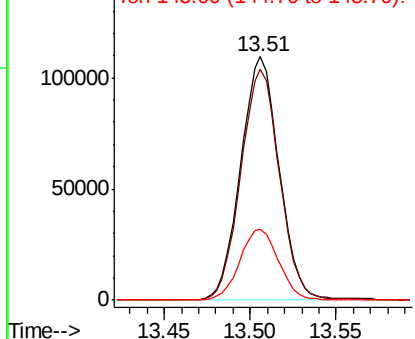


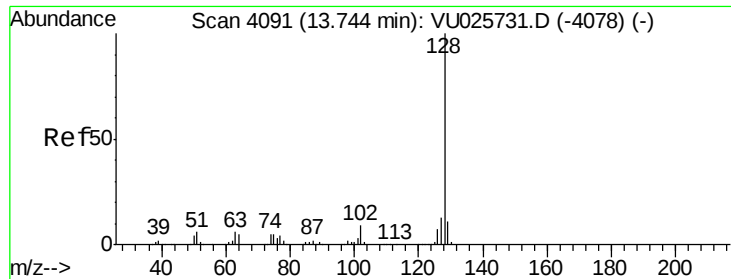
#68
 1,2,4-trichlorobenzene
 Concen: 47.84 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025788.D
 Acq: 02 Aug 2018 09:44

Tgt Ion:180	Resp:	169697
Ion Ratio	Lower	Upper
180	100	
182	95.8	78.1 117.1
145	29.5	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: 46.42 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. -0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

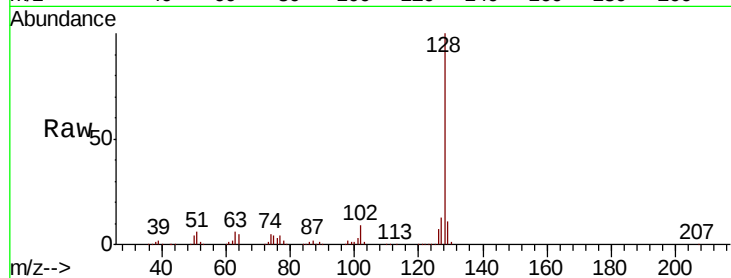
Tot Ion:128 Resp: 495119

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

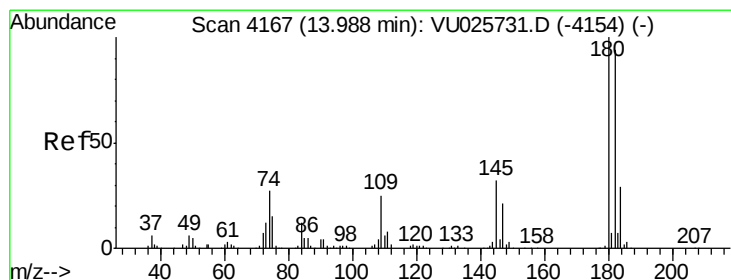
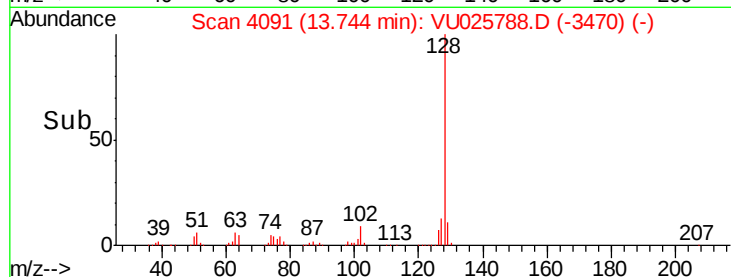
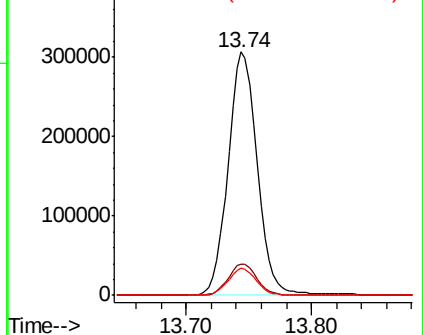
129 10.9 8.4 12.6



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: 45.34 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. -0.00 min

Lab File: VU025788.D

Acq: 02 Aug 2018 09:44

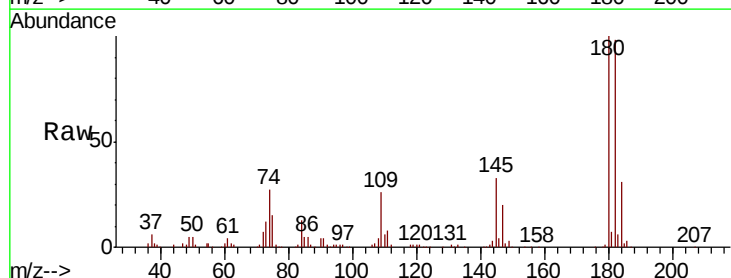
Tgt Ion:180 Resp: 170004

Ion Ratio Lower Upper

180 100

182 98.4 76.6 114.8

145 32.7 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

