

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080418\
 Data File : VU025843.D
 Acq On : 04 Aug 2018 01:01
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

Quant Time: Aug 04 04:36:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 03 23:51:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	316748	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	303295	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	162783	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	85416	47.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.48%
7) Chloroethane-d5	1.68	69	69993	46.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.84%
11) 1,1-Dichloroethene-d2	2.27	63	181853	48.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.62%
21) 2-Butanone-d5	4.18	46	145793	104.43	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.43%
24) Chloroform-d	4.65	84	197782	49.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.20%
26) 1,2-Dichloroethane-d4	5.31	65	129569	48.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.28%
32) Benzene-d6	5.35	84	375157	48.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.46%
36) 1,2-Dichloropropane-d6	6.34	67	119327	47.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.22%
41) Toluene-d8	7.57	98	363329	48.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.42%
43) trans-1,3-Dichloropropene-	7.85	79	60452	47.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.44%
47) 2-Hexanone-d5	8.31	63	107014	101.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.97%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	169921	48.47	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.94%
64) 1,2-Dichlorobenzene-d4	11.86	152	156683	47.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.98%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	124982	40.047 ug/L	100
3) Chloromethane	1.33	50	100152	44.436 ug/L	99
5) Vinyl chloride	1.41	62	105665	42.744 ug/L	99
6) Bromomethane	1.63	94	46436	54.016 ug/L	94
8) Chloroethane	1.70	64	62338	42.826 ug/L	99
9) Trichlorofluoromethane	1.89	101	152272	43.256 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	89110	45.203 ug/L	99
12) 1,1-Dichloroethene	2.28	96	80405	44.980 ug/L	93
13) Acetone	2.32	43	105081	64.129 ug/L	99
14) Carbon disulfide	2.48	76	242957	41.740 ug/L	100
15) Methyl Acetate	2.62	43	109877	48.508 ug/L	99
16) Methylene chloride	2.70	84	100704	45.224 ug/L	100
17) trans-1,2-Dichloroethene	2.99	96	90016	43.737 ug/L	98
18) Methyl tert-butyl Ether	3.00	73	305654	45.600 ug/L	99
19) 1,1-Dichloroethane	3.45	63	177331	45.294 ug/L	99
20) cis-1,2-Dichloroethene	4.23	96	104856	45.135 ug/L	98
22) 2-Butanone	4.27	43	152201	83.436 ug/L	100

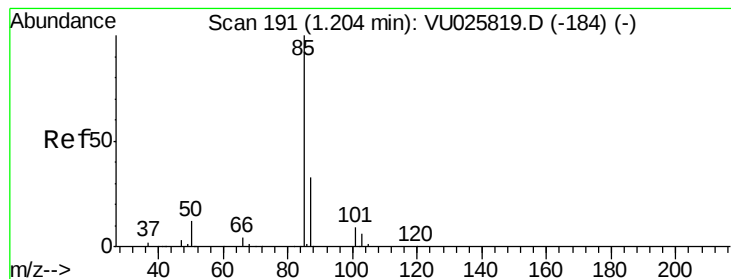
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080418\
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 Quant Title : VOC Analysis
 QLast Update : Fri Aug 03 23:51:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	54944	44.808	ug/L	97
25) Chloroform	4.68	83	193362	46.936	ug/L	99
27) 1,2-Dichloroethane	5.41	62	156673	46.625	ug/L	99
29) Cyclohexane	5.00	56	145376	41.373	ug/L	98
30) 1,1,1-Trichloroethane	4.92	97	169130	44.564	ug/L	98
31) Carbon tetrachloride	5.14	117	152241	43.381	ug/L	100
33) Benzene	5.39	78	387787	44.499	ug/L	100
34) Trichloroethene	6.19	95	103418	44.726	ug/L	96
35) Methylcyclohexane	6.42	83	150002	40.233	ug/L	99
37) 1,2-Dichloropropane	6.44	63	108129	45.406	ug/L	99
38) Bromodichloromethane	6.76	83	143856	45.817	ug/L	96
39) cis-1,3-Dichloropropene	7.27	75	161317	43.650	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	298476	95.442	ug/L	100
42) Toluene	7.64	91	422169	44.921	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	152419	43.742	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	101617	44.486	ug/L	99
46) Tetrachloroethene	8.23	164	87218	43.509	ug/L	99
48) 2-Hexanone	8.36	43	238850	90.387	ug/L	98
49) Dibromochloromethane	8.48	129	124232	46.364	ug/L	97
50) 1,2-Dibromoethane	8.59	107	110169	44.768	ug/L	99
51) Chlorobenzene	9.12	112	282282	44.616	ug/L	100
52) Ethylbenzene	9.25	91	467474	45.068	ug/L	99
53) m,p-Xylene	9.38	106	183450	46.173	ug/L	99
54) o-xylene	9.78	106	179075	44.419	ug/L	97
55) Styrene	9.80	104	311251	47.403	ug/L	99
56) Isopropylbenzene	10.17	105	472271	45.392	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	169744	46.070	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	130474	46.646	ug/L	100
61) Bromoform	9.96	173	92592	43.975	ug/L	97
62) 1,3-Dichlorobenzene	11.42	146	225327	43.760	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	235180	44.744	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	238020	44.123	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	39821	46.938	ug/L	94
67) 1,3,5-Trichlorobenzene	12.89	180	170935	43.007	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	146572	43.878	ug/L	99
69) Naphthalene	13.74	128	449301	44.727	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	157052	44.476	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 40.047 ug/L

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

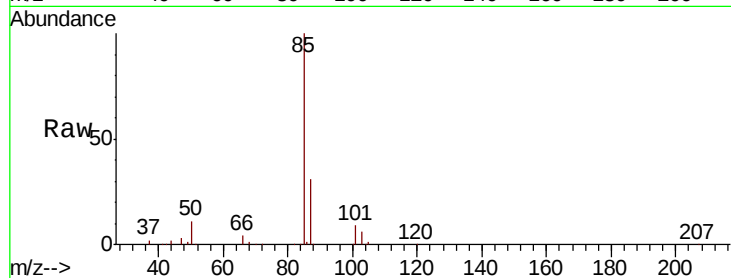
VSTD05051

Tgt Ion: 85 Resp: 124982

Ion Ratio Lower Upper

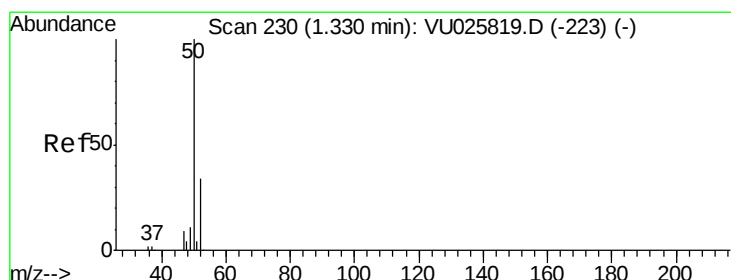
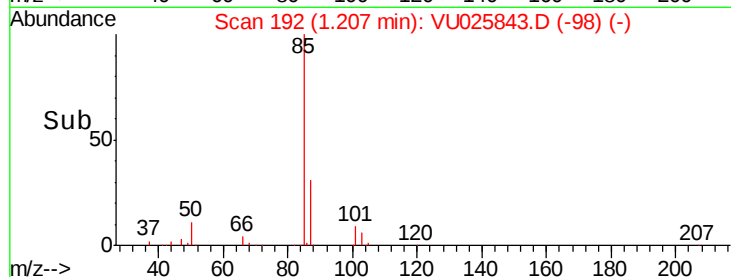
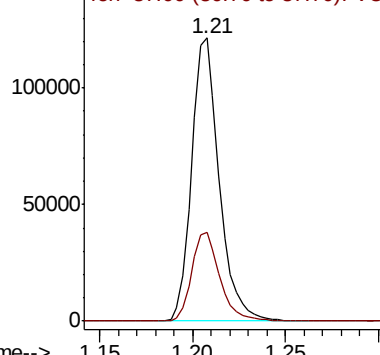
85 100

87 31.9 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 44.436 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU025843.D

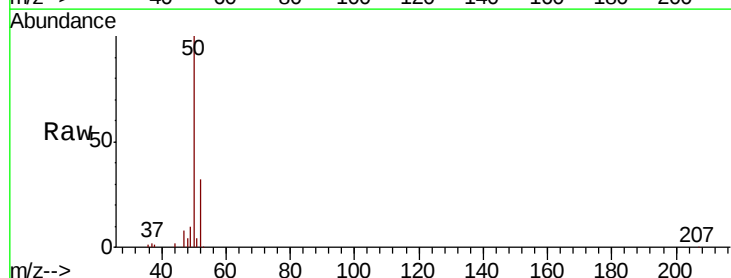
Acq: 04 Aug 2018 01:01

Tgt Ion: 50 Resp: 100152

Ion Ratio Lower Upper

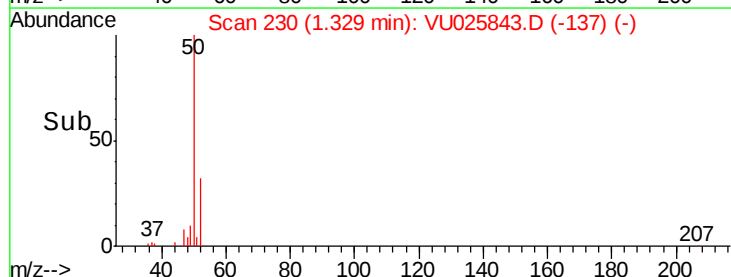
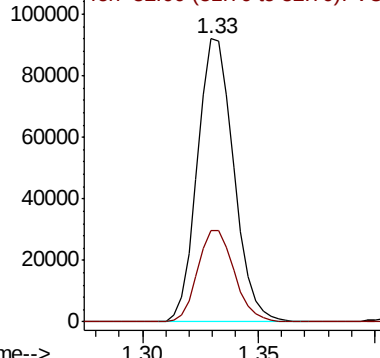
50 100

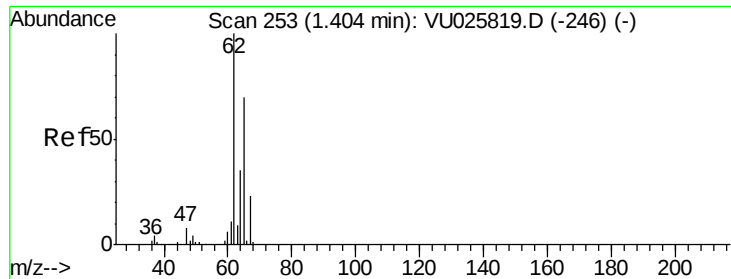
52 32.4 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 42.744 ug/L

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

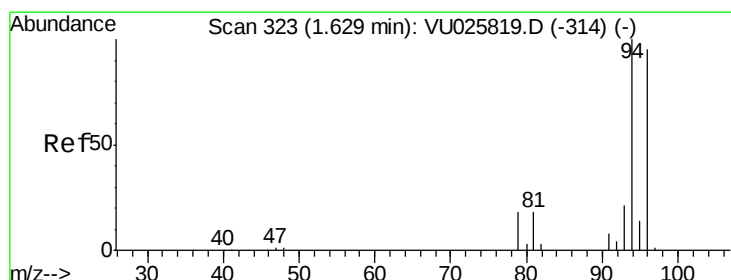
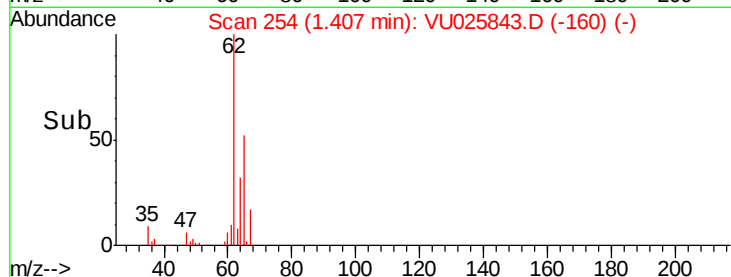
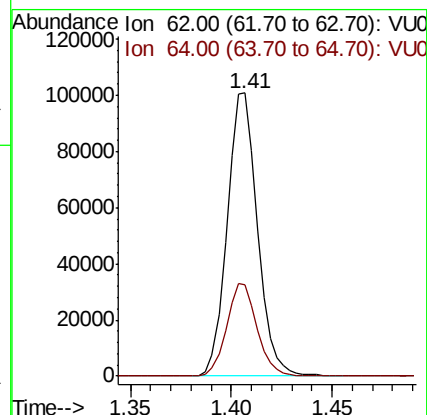
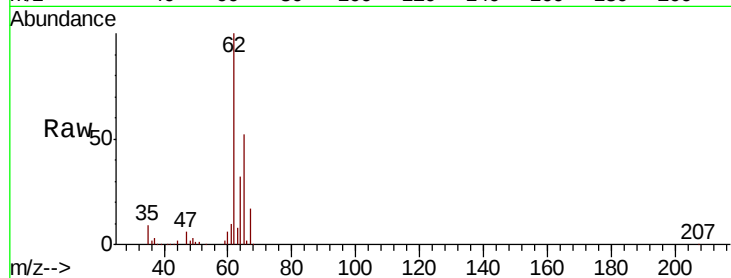
VSTD05051

Tgt Ion: 62 Resp: 105665

Ion Ratio Lower Upper

62 100

64 32.1 22.7 42.1



#6

Bromomethane

Concen: 54.016 ug/L

RT: 1.63 min Scan# 323

Delta R.T. -0.00 min

Lab File: VU025843.D

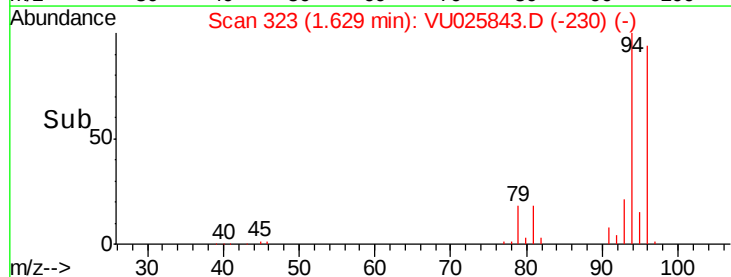
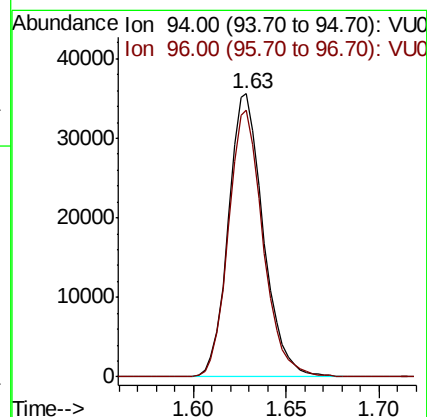
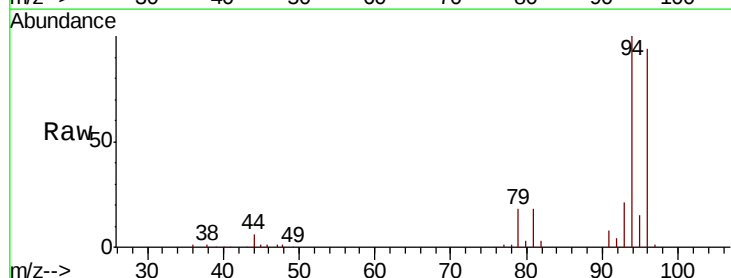
Acq: 04 Aug 2018 01:01

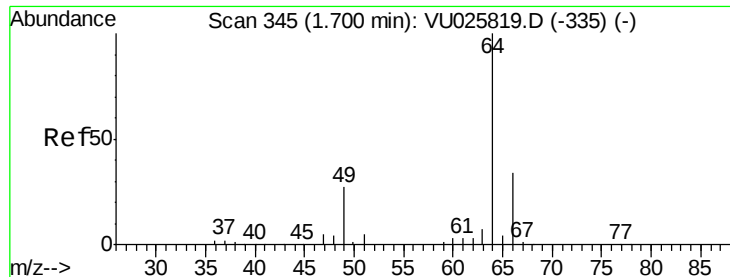
Tgt Ion: 94 Resp: 46436

Ion Ratio Lower Upper

94 100

96 94.4 62.4 115.8

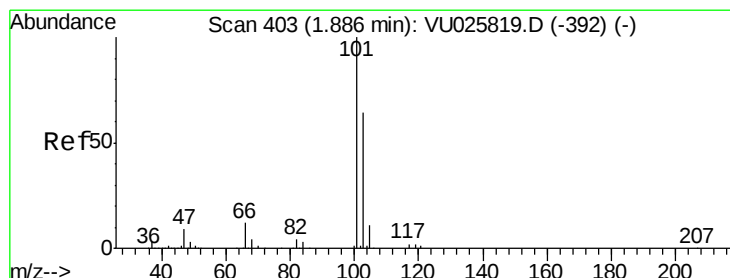
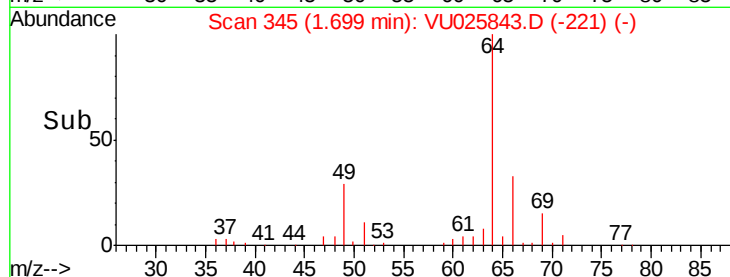
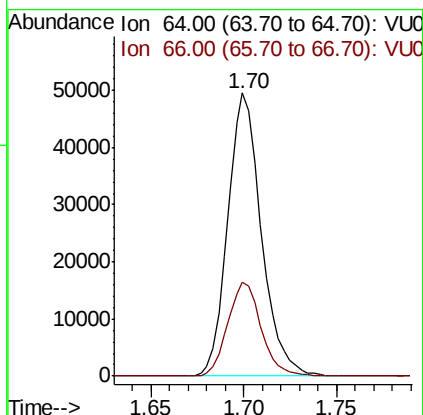
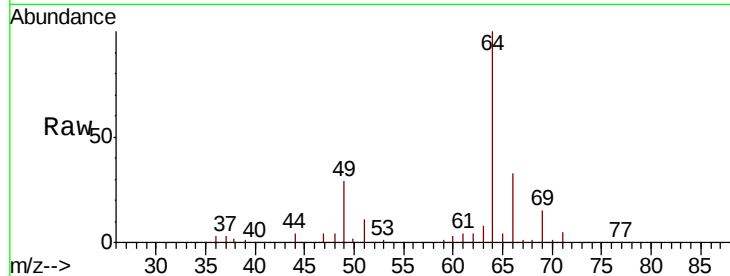




#8
Chloroethane
Concen: 42.826 ug/L
RT: 1.70 min Scan# 345
Delta R.T. -0.00 min
Lab File: VU025843.D
Acq: 04 Aug 2018 01:01

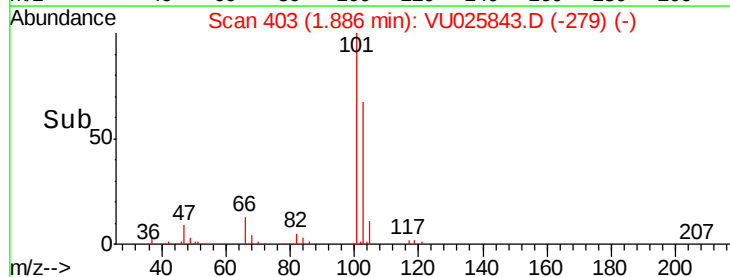
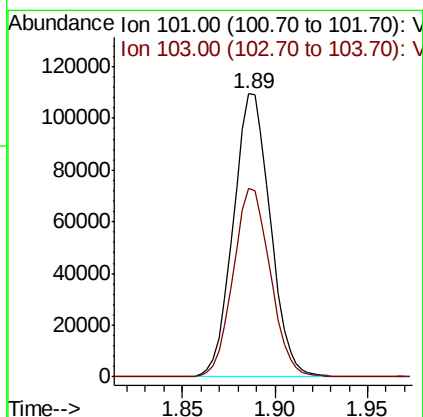
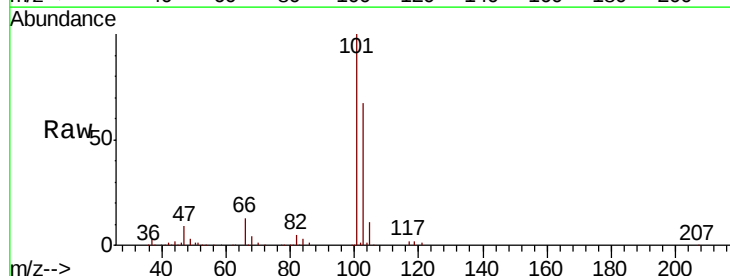
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

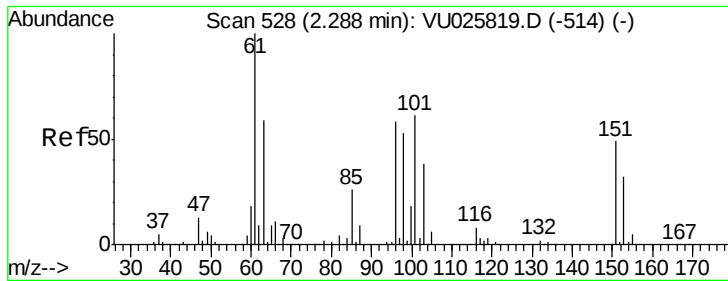
Tgt Ion: 64 Resp: 62338
Ion Ratio Lower Upper
64 100
66 33.2 23.5 43.7



#9
Trichlorofluoromethane
Concen: 43.256 ug/L
RT: 1.89 min Scan# 403
Delta R.T. -0.00 min
Lab File: VU025843.D
Acq: 04 Aug 2018 01:01

Tgt Ion: 101 Resp: 152272
Ion Ratio Lower Upper
101 100
103 66.7 52.0 78.0





#10

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

Concen: 45.203 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

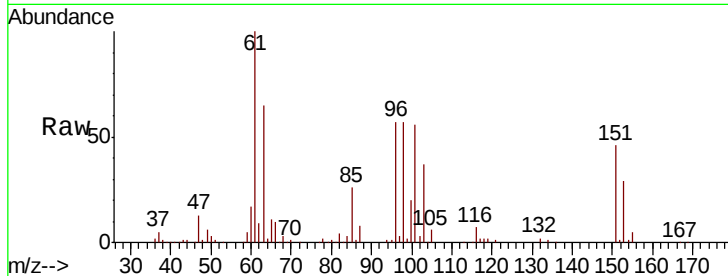
Tgt Ion:101 Resp: 89110

Ion Ratio Lower Upper

101 100

85 43.9 35.5 53.3

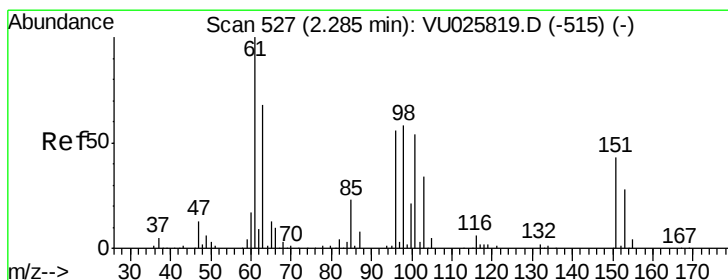
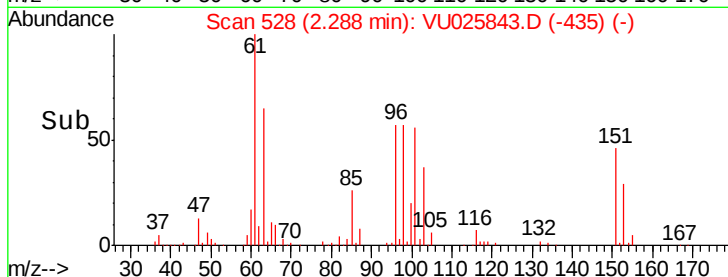
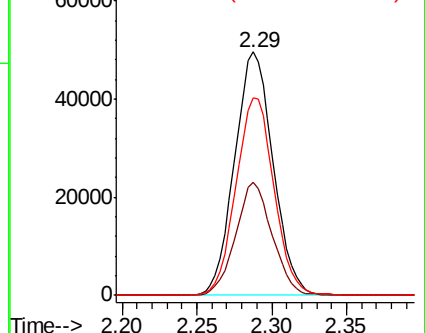
151 80.1 63.5 95.3



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: 44.980 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

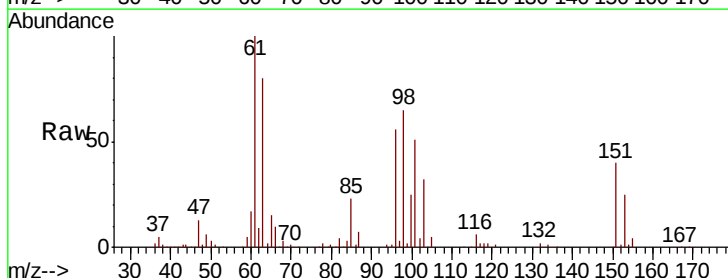
Tgt Ion: 96 Resp: 80405

Ion Ratio Lower Upper

96 100

61 179.5 122.5 227.5

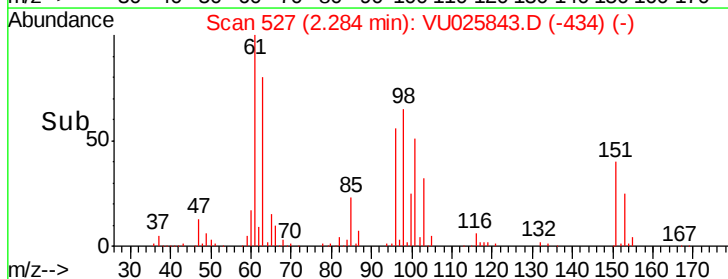
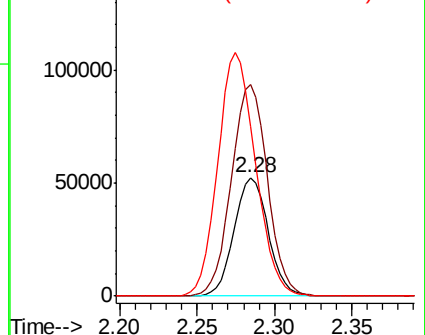
63 142.9 90.9 168.9

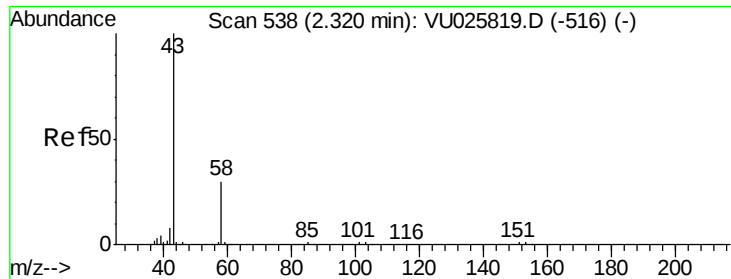


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 64.129 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

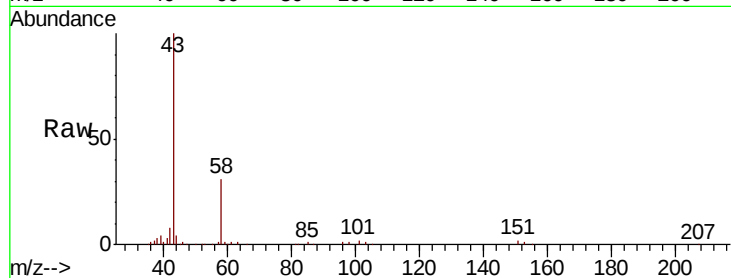
VSTD05051

Tgt Ion: 43 Resp: 105081

Ion Ratio Lower Upper

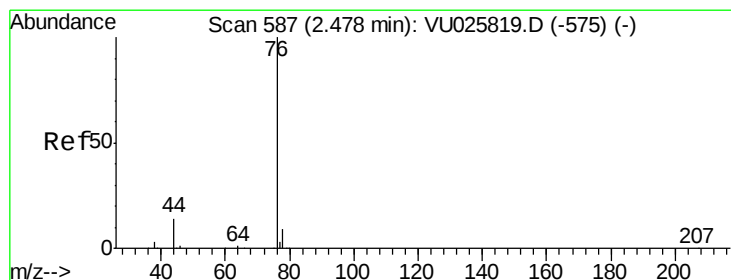
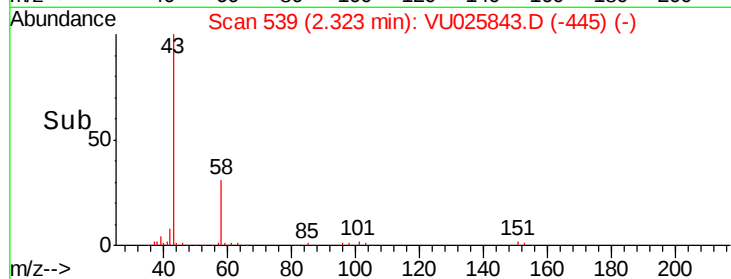
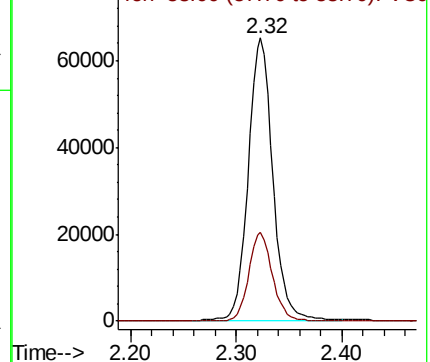
43 100

58 30.3 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: 41.740 ug/L

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025843.D

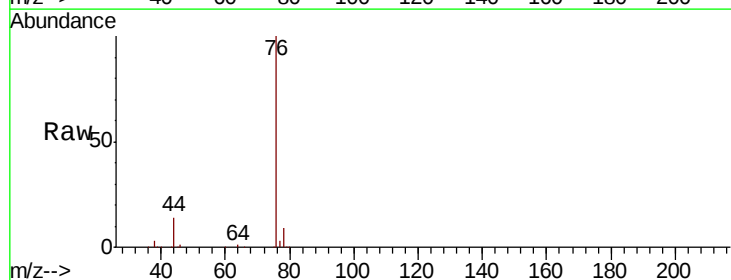
Acq: 04 Aug 2018 01:01

Tgt Ion: 76 Resp: 242957

Ion Ratio Lower Upper

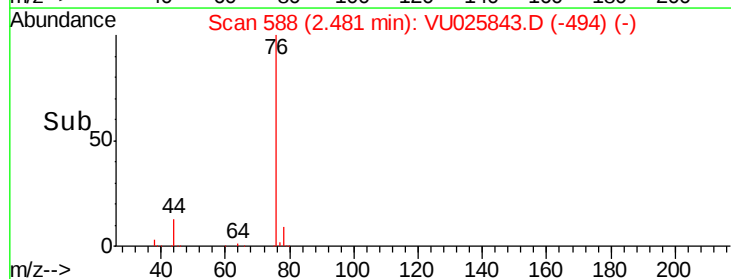
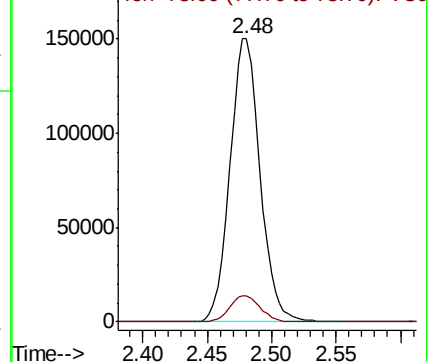
76 100

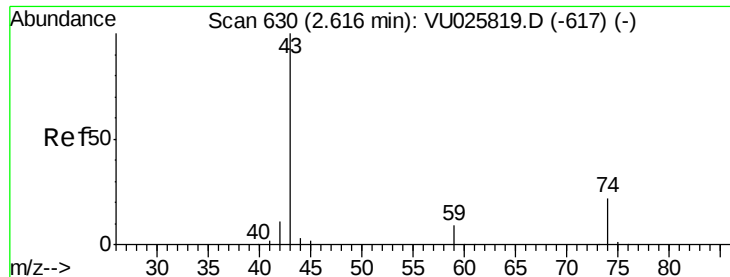
78 9.3 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 48.508 ug/L

RT: 2.62 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

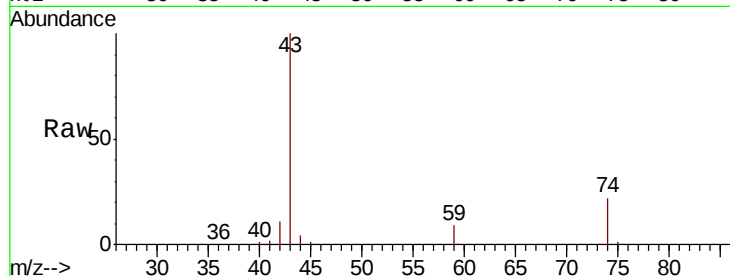
VSTD05051

Tgt Ion: 43 Resp: 109877

Ion Ratio Lower Upper

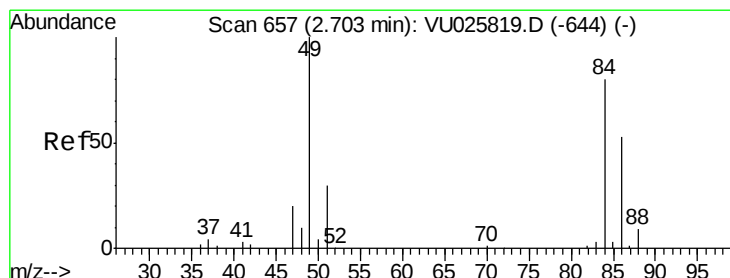
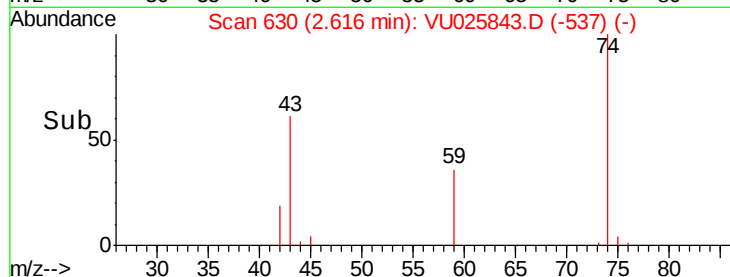
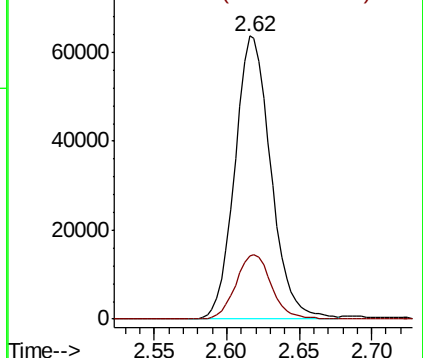
43 100

74 22.5 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: 45.224 ug/L

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

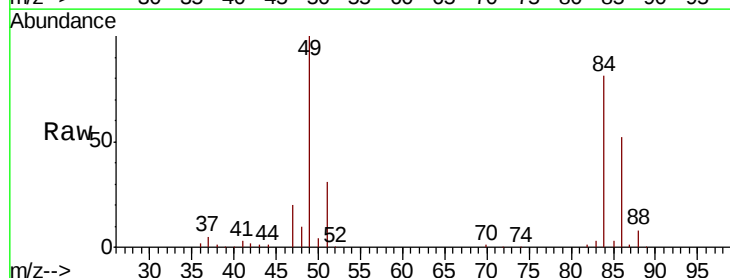
Tgt Ion: 84 Resp: 100704

Ion Ratio Lower Upper

84 100

86 64.4 45.6 84.6

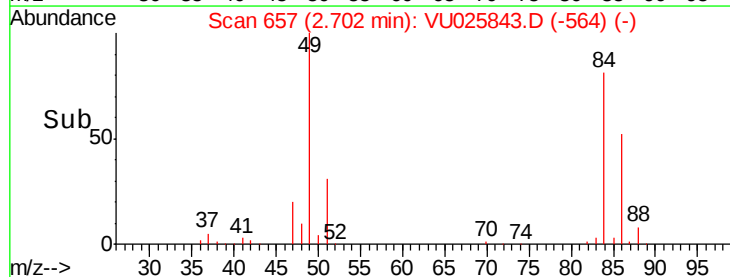
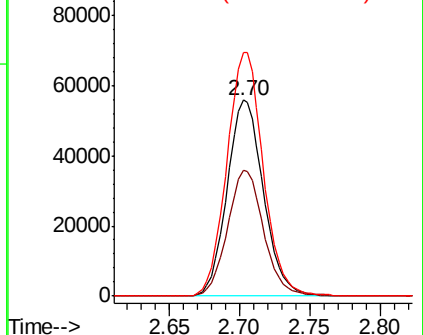
49 124.1 87.0 161.6

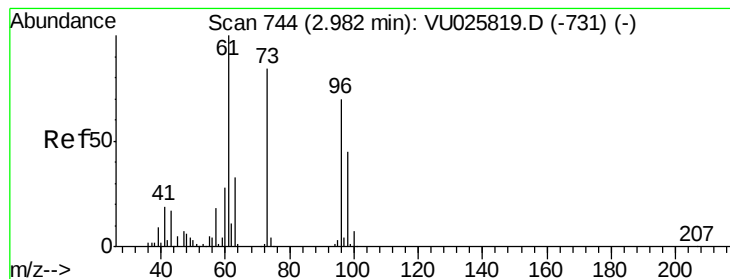


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 43.737 ug/L

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

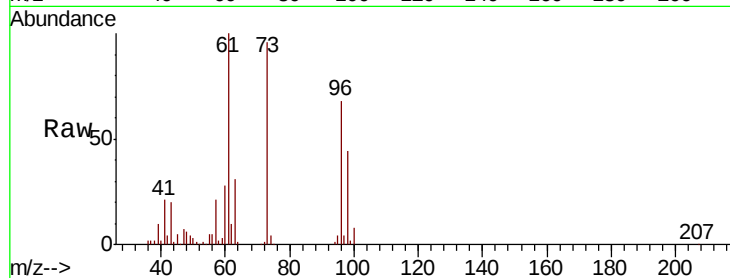
Tgt Ion: 96 Resp: 90016

Ion Ratio Lower Upper

96 100

61 147.0 100.0 185.8

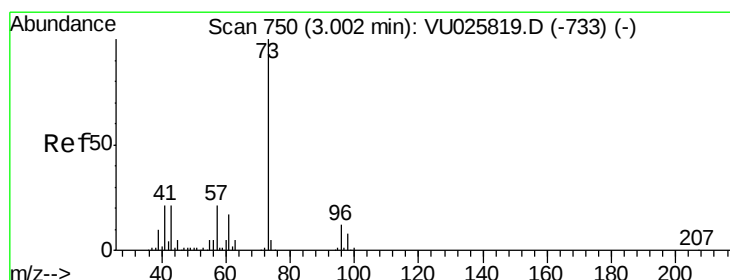
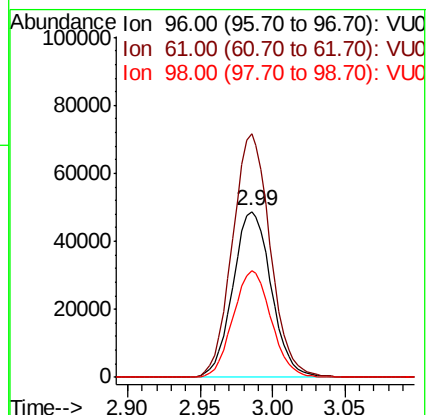
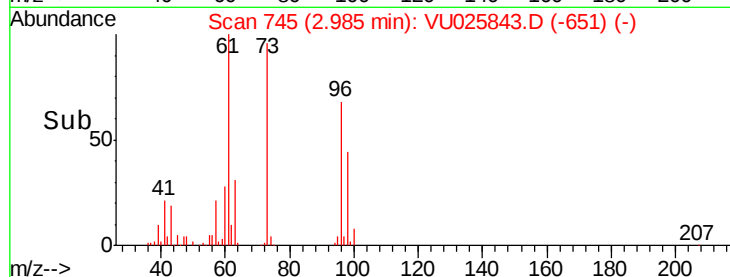
98 64.4 44.7 83.1



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 45.600 ug/L

RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

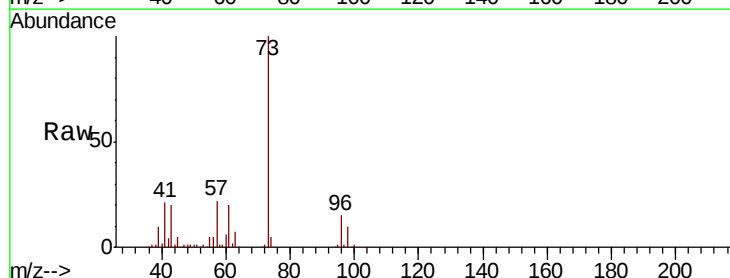
Tgt Ion: 73 Resp: 305654

Ion Ratio Lower Upper

73 100

43 20.2 16.2 24.2

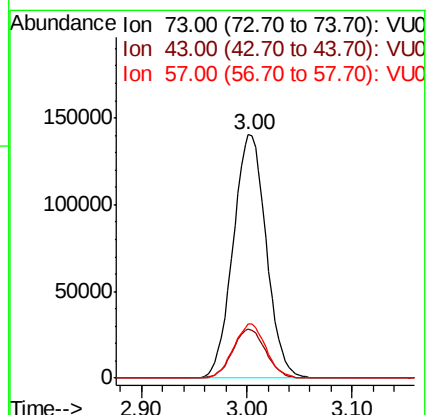
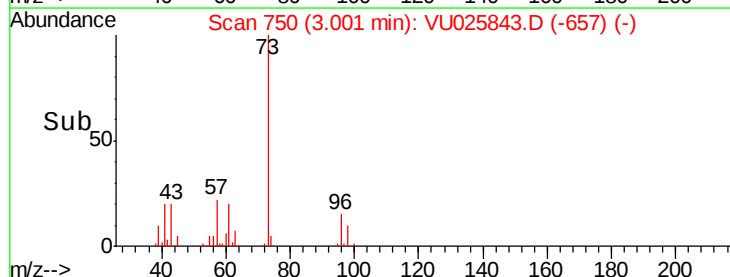
57 21.8 17.1 25.7

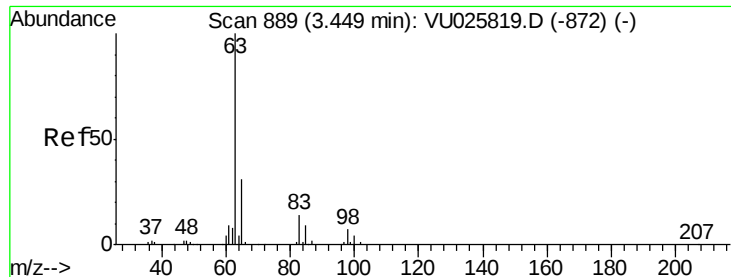


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

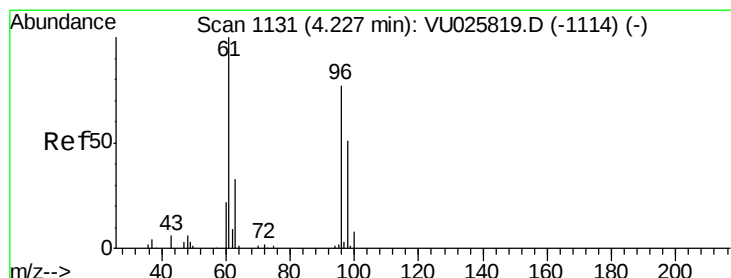
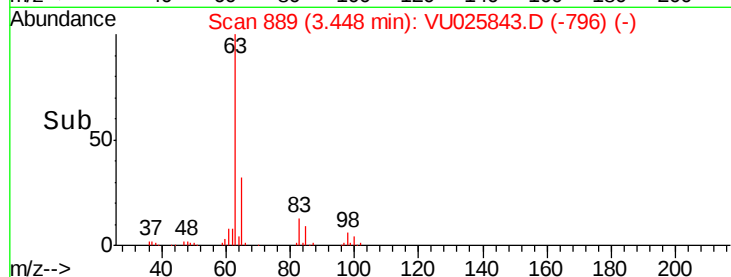
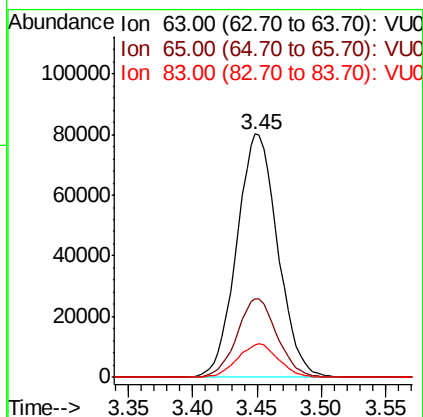
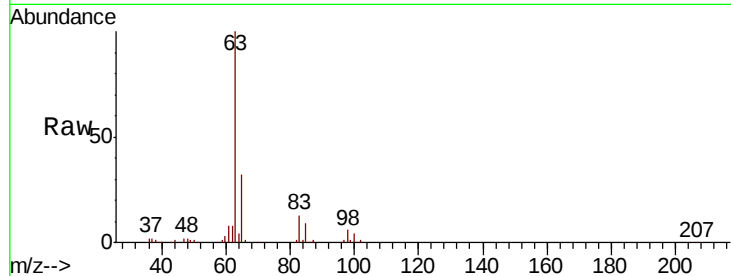




#19
 1,1-Dichloroethane
 Concen: 45.294 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. -0.00 min
 Lab File: VU025843.D
 Acq: 04 Aug 2018 01:01

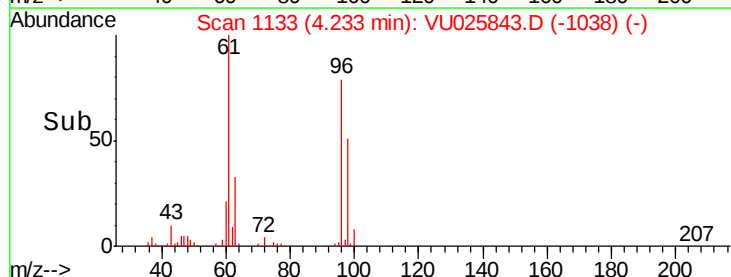
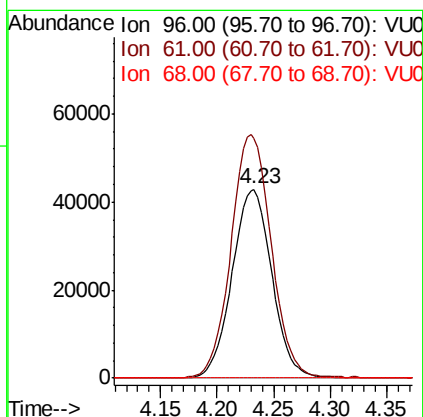
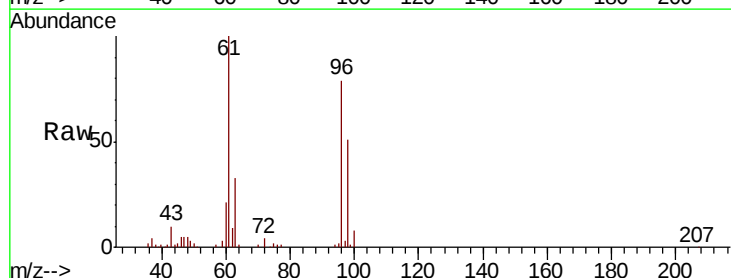
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

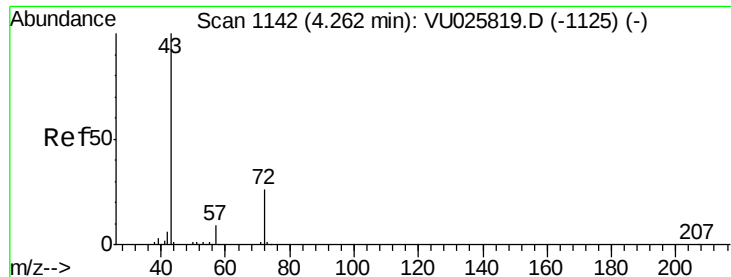
Tgt Ion: 63 Resp: 177331
 Ion Ratio Lower Upper
 63 100
 65 32.4 22.0 41.0
 83 13.4 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 45.135 ug/L
 RT: 4.23 min Scan# 1133
 Delta R.T. 0.01 min
 Lab File: VU025843.D
 Acq: 04 Aug 2018 01:01

Tgt Ion: 96 Resp: 104856
 Ion Ratio Lower Upper
 96 100
 61 127.2 87.4 162.2
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 83.436 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

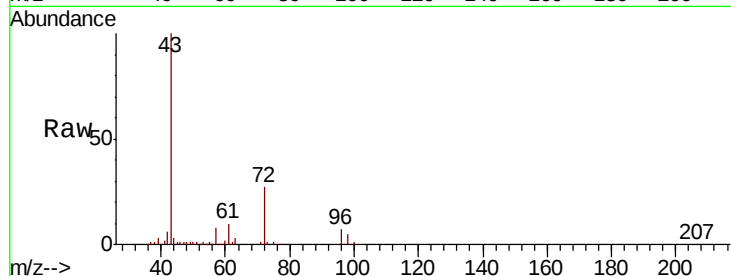
VSTD05051

Tgt Ion: 43 Resp: 152201

Ion Ratio Lower Upper

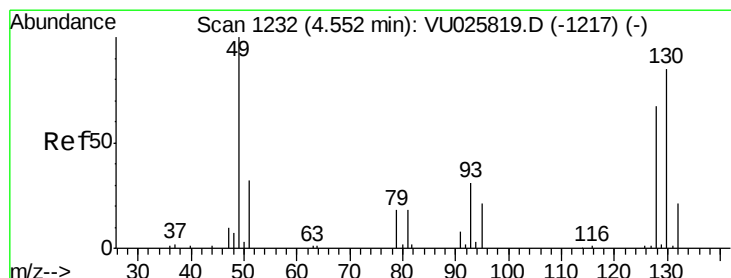
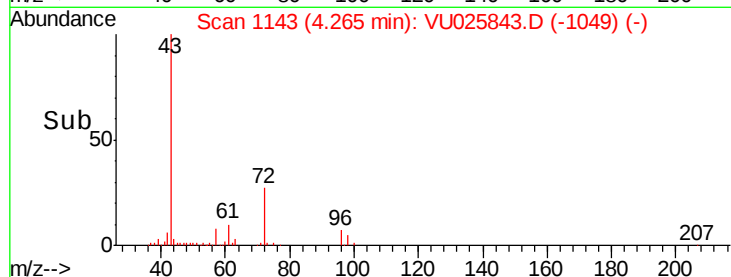
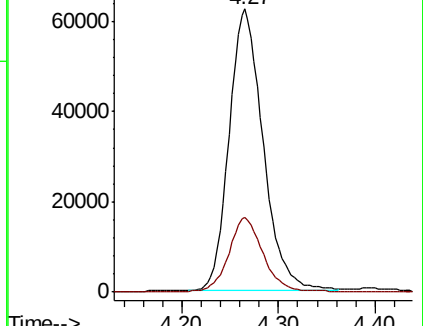
43 100

72 27.0 13.6 40.8



Abundance Ion 43.00 (42.70 to 43.70): VU025819.D (-1125) (-)

Ion 72.00 (71.70 to 72.70): VU025819.D (-1125) (-)



#23

Bromochloromethane

Concen: 44.808 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Tgt Ion: 128 Resp: 54944

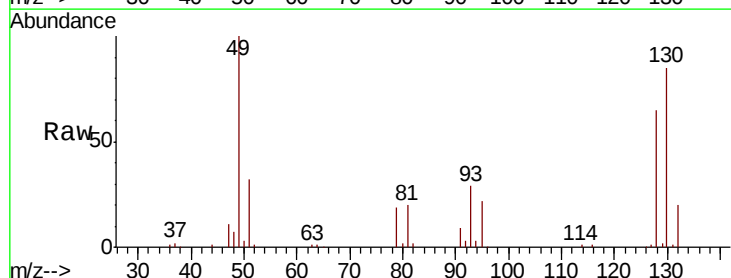
Ion Ratio Lower Upper

128 100

49 153.0 103.3 191.8

130 130.5 90.4 167.8

51 49.2 35.5 53.3

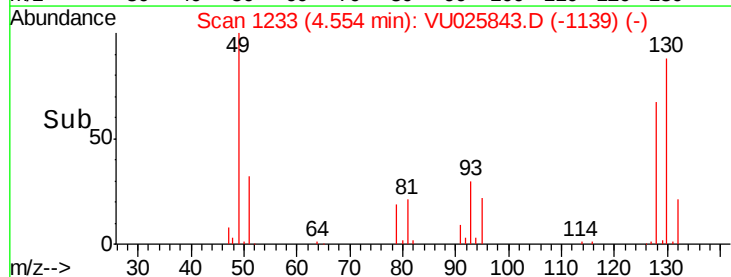
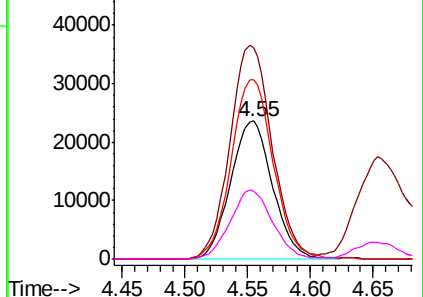


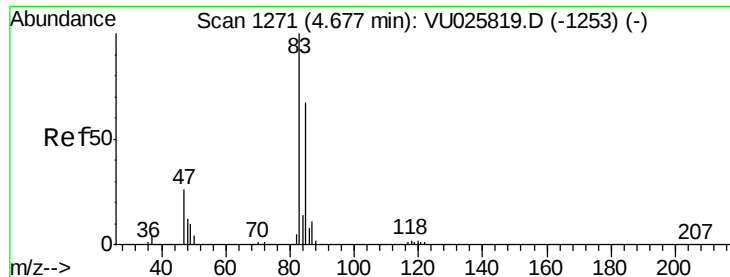
Abundance Ion 128.00 (127.70 to 128.70): VU025819.D (-1217) (-)

Ion 49.00 (48.70 to 49.70): VU025819.D (-1217) (-)

Ion 130.00 (129.70 to 130.70): VU025819.D (-1217) (-)

Ion 51.00 (50.70 to 51.70): VU025819.D (-1217) (-)

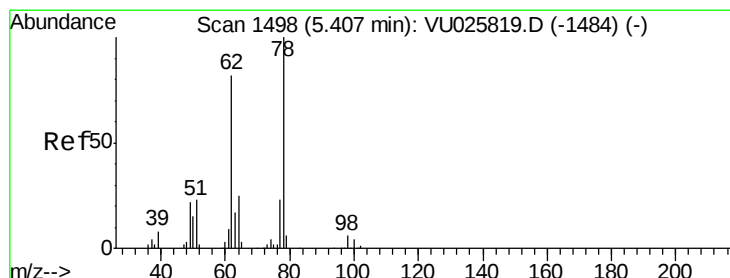
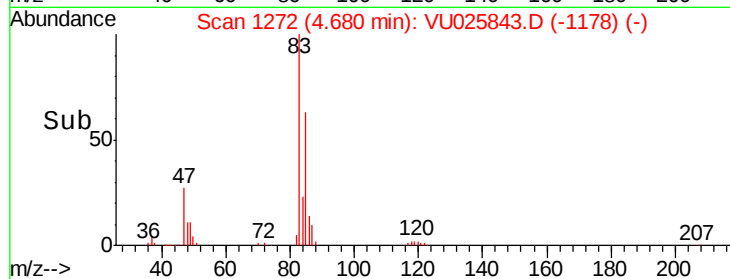
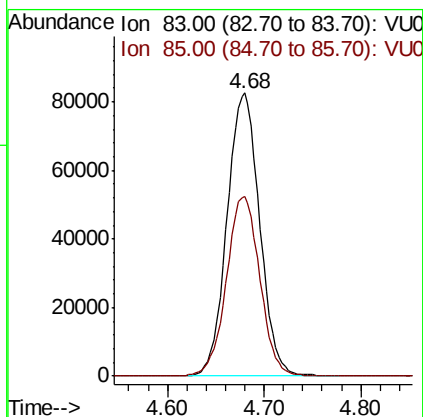
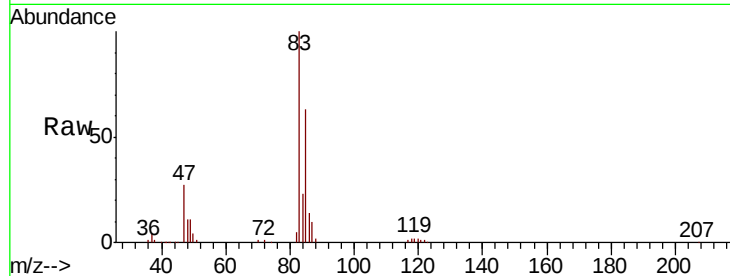




#25
Chloroform
Concen: 46.936 ug/L
RT: 4.68 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU025843.D
Acq: 04 Aug 2018 01:01

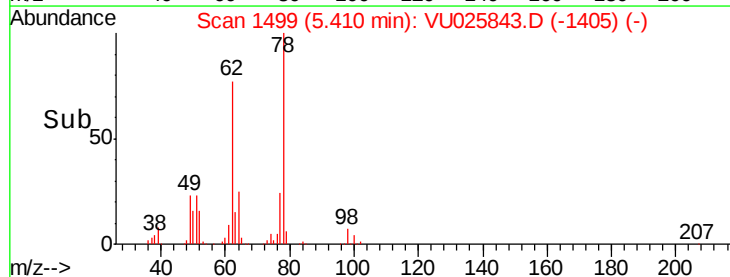
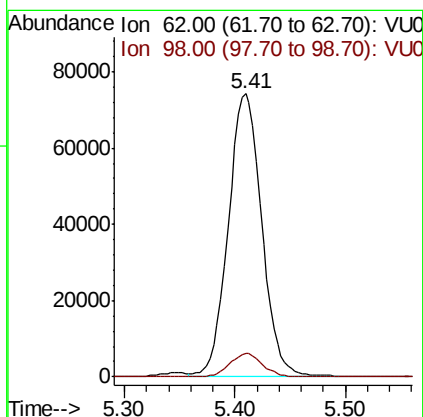
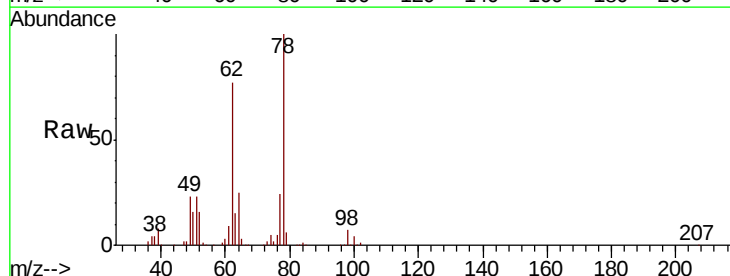
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

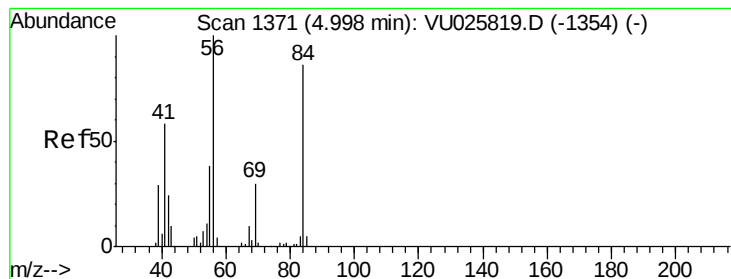
Tgt Ion: 83 Resp: 193362
Ion Ratio Lower Upper
83 100
85 63.5 45.0 83.6



#27
1,2-Dichloroethane
Concen: 46.625 ug/L
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU025843.D
Acq: 04 Aug 2018 01:01

Tgt Ion: 62 Resp: 156673
Ion Ratio Lower Upper
62 100
98 8.5 6.5 9.7





#29

Cyclohexane

Concen: 41.373 ug/L

RT: 5.00 min Scan# 1372

Delta R.T. 0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampled :

VSTD05051

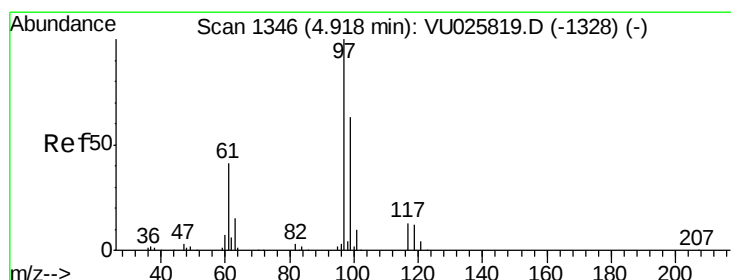
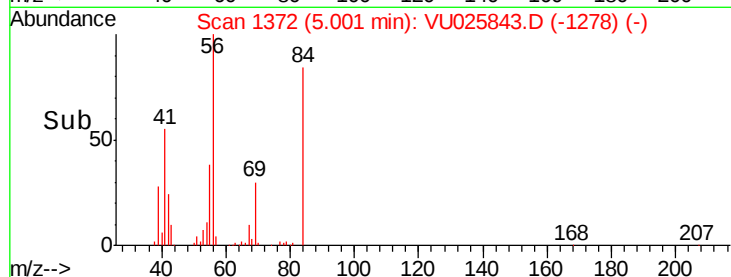
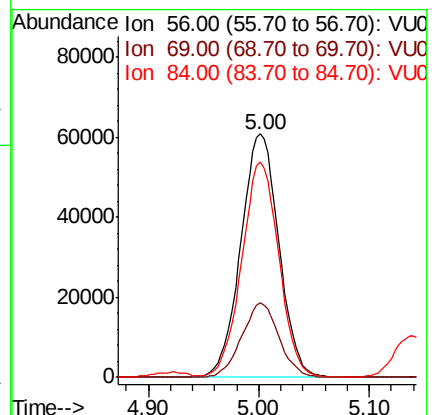
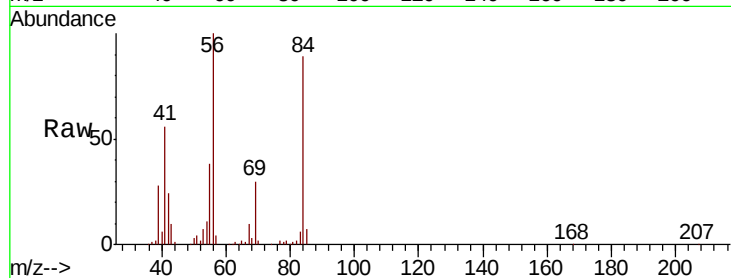
Tgt Ion: 56 Resp: 145376

Ion Ratio Lower Upper

56 100

69 29.9 24.8 37.2

84 86.4 70.6 106.0



#30

1,1,1-Trichloroethane

Concen: 44.564 ug/L

RT: 4.92 min Scan# 1347

Delta R.T. 0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

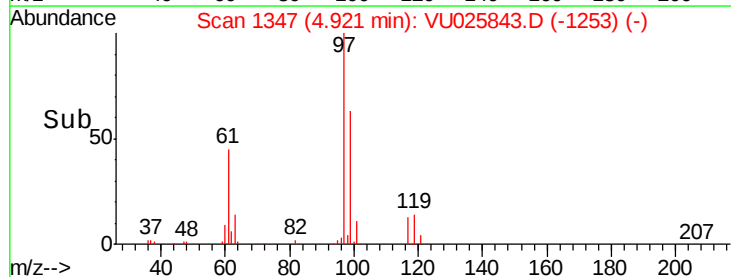
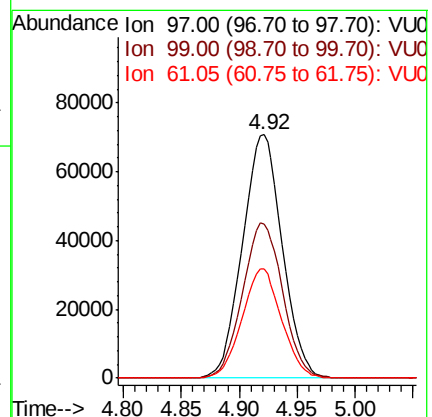
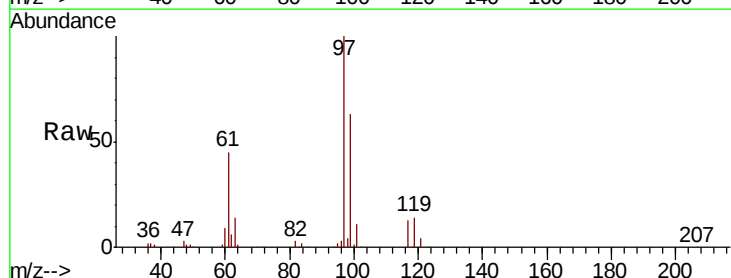
Tgt Ion: 97 Resp: 169130

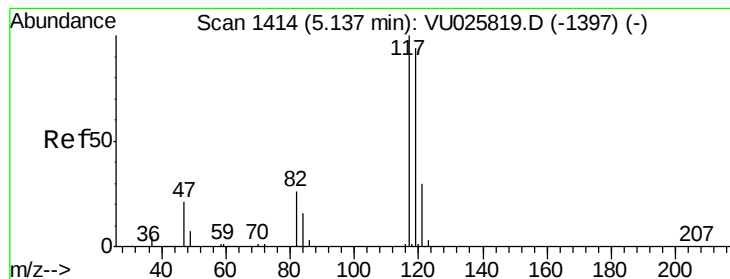
Ion Ratio Lower Upper

97 100

99 64.1 52.4 78.6

61 44.3 34.6 52.0





#31

Carbon tetrachloride

Concen: 43.381 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

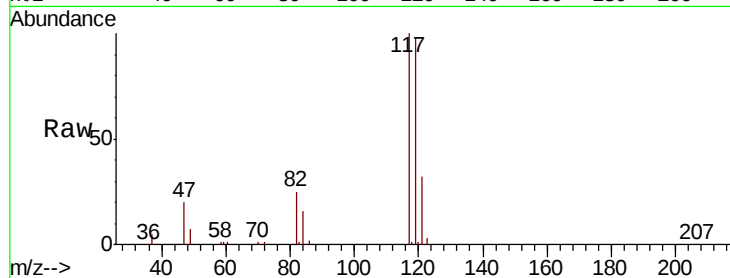
VSTD05051

Tgt Ion:117 Resp: 152241

Ion Ratio Lower Upper

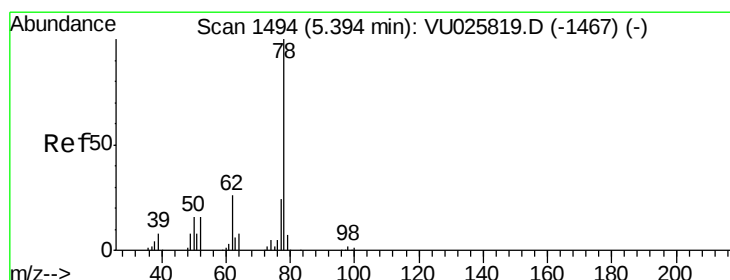
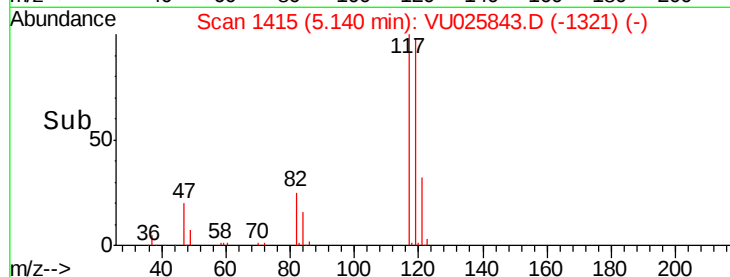
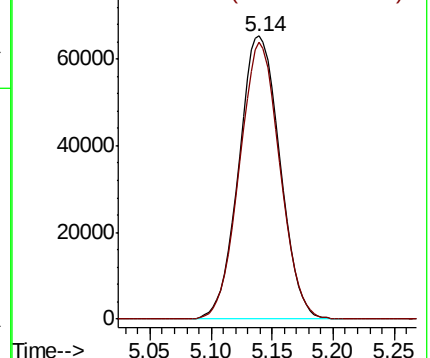
117 100

119 95.9 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: 44.499 ug/L

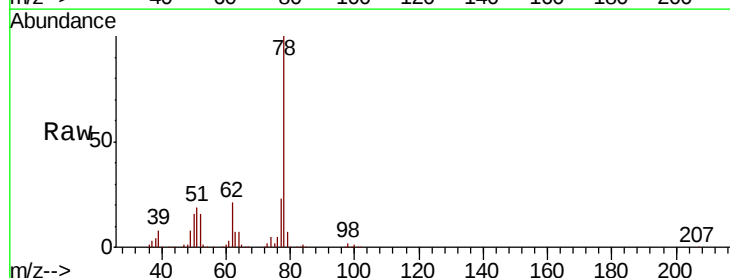
RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

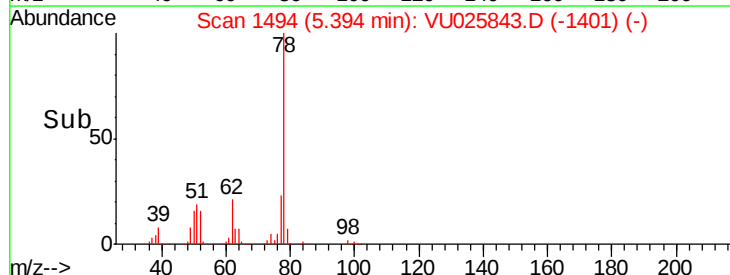
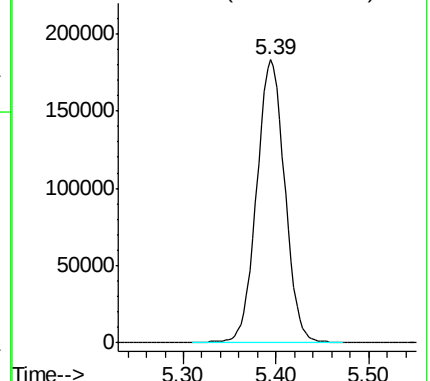
Lab File: VU025843.D

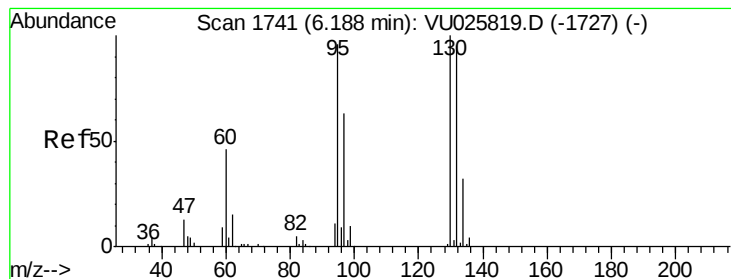
Acq: 04 Aug 2018 01:01

Tgt Ion: 78 Resp: 387787



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 44.726 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

Tgt Ion: 95 Resp: 103418

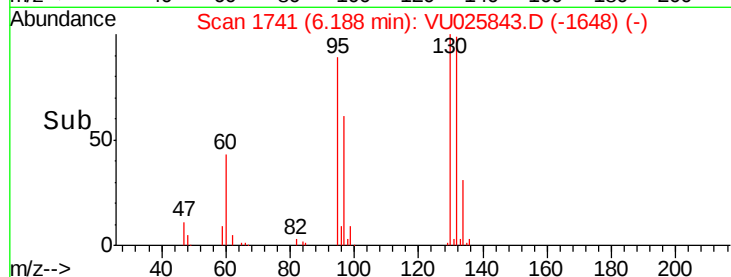
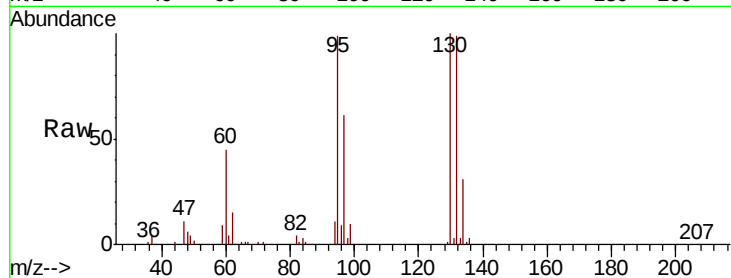
Ion Ratio Lower Upper

95 100

97 62.3 45.9 85.3

132 100.2 72.2 134.2

130 101.3 74.9 139.1

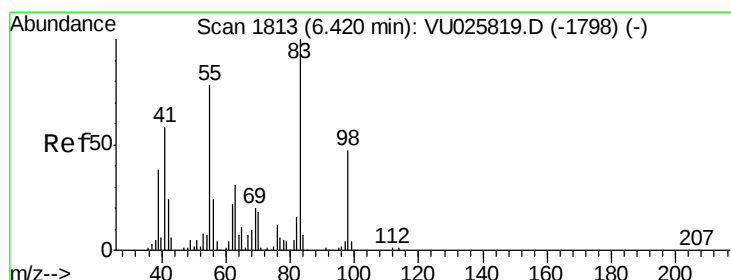
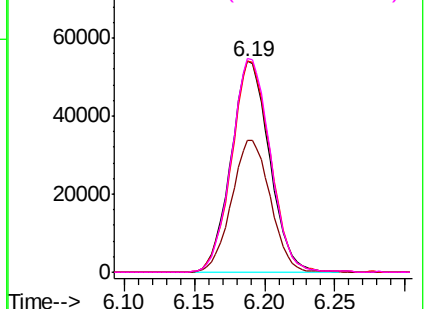


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 40.233 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

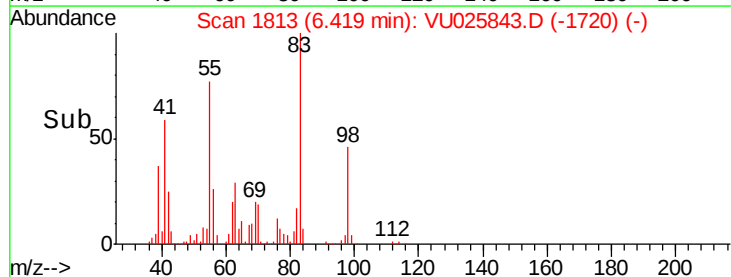
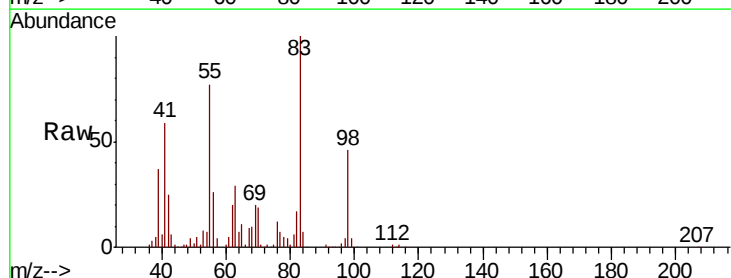
Tgt Ion: 83 Resp: 150002

Ion Ratio Lower Upper

83 100

55 75.8 61.1 91.7

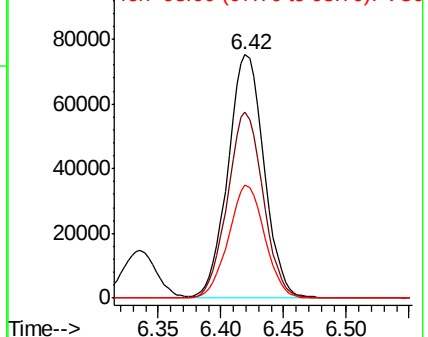
98 46.7 38.6 57.8

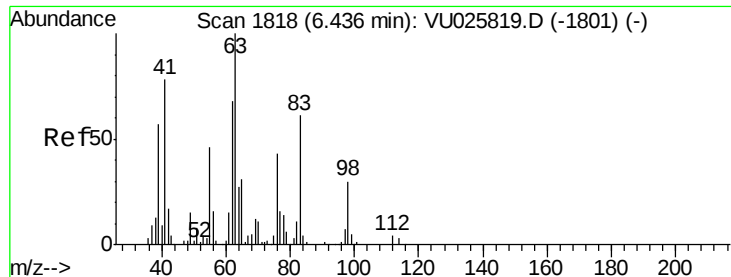


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

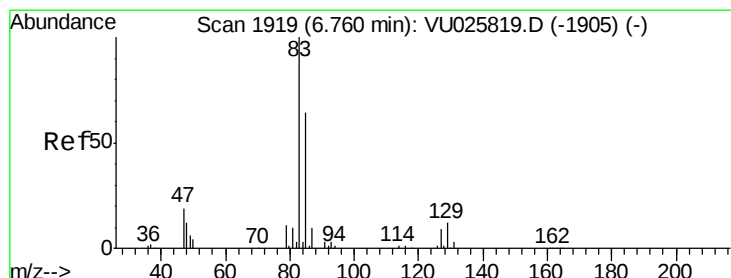
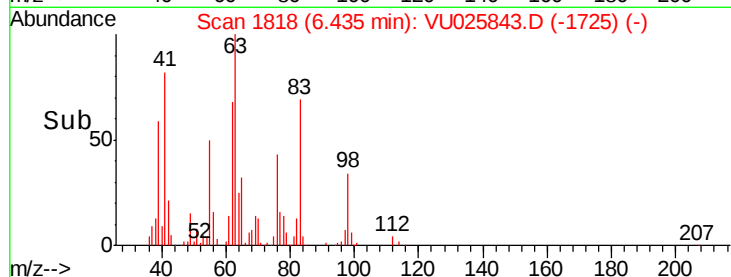
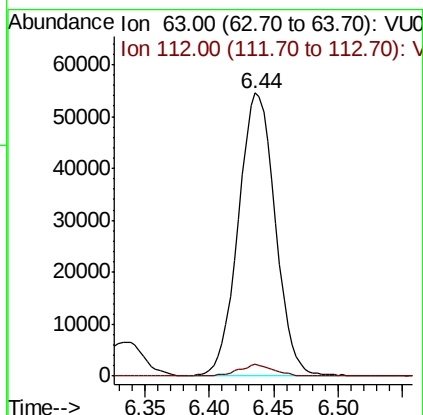
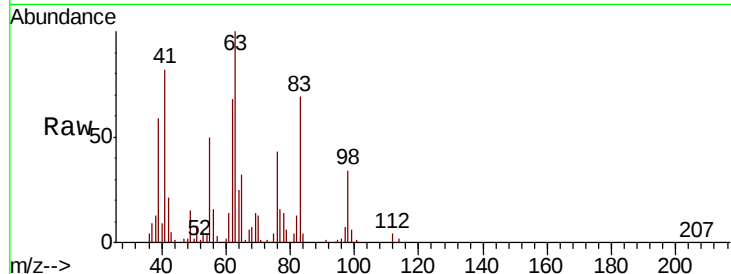




#37
 1,2-Dichloropropane
 Concen: 45.406 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. -0.00 min
 Lab File: VU025843.D
 Acq: 04 Aug 2018 01:01

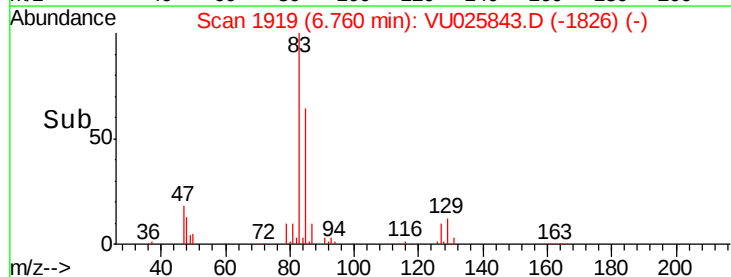
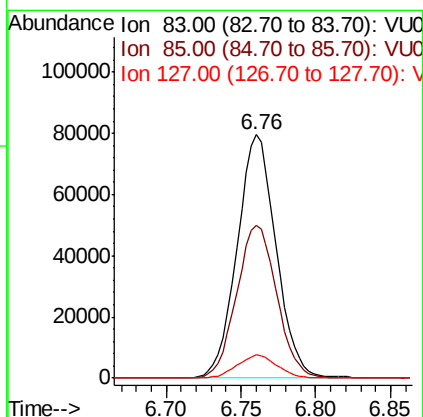
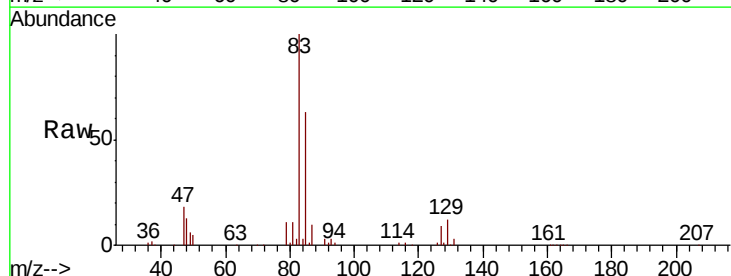
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

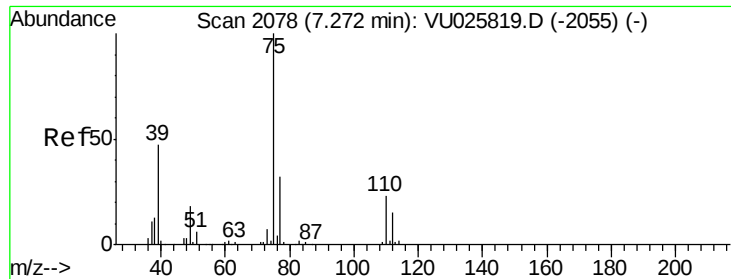
Tgt Ion: 63 Resp: 108129
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.3 4.9



#38
 Bromodichloromethane
 Concen: 45.817 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. -0.00 min
 Lab File: VU025843.D
 Acq: 04 Aug 2018 01:01

Tgt Ion: 83 Resp: 143856
 Ion Ratio Lower Upper
 83 100
 85 62.9 46.7 86.7
 127 9.4 8.0 12.0





#39

cis-1,3-Dichloropropene

Concen: 43.650 ug/L

RT: 7.27 min Scan# 2078

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

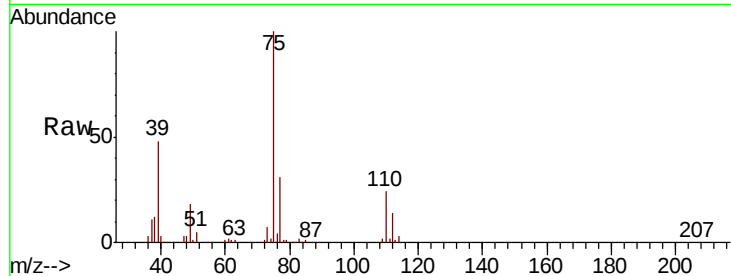
VSTD05051

Tgt Ion: 75 Resp: 161317

Ion Ratio Lower Upper

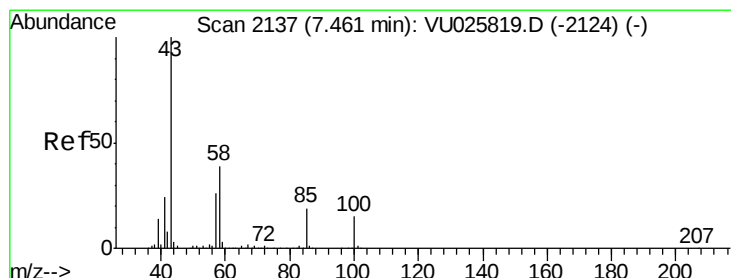
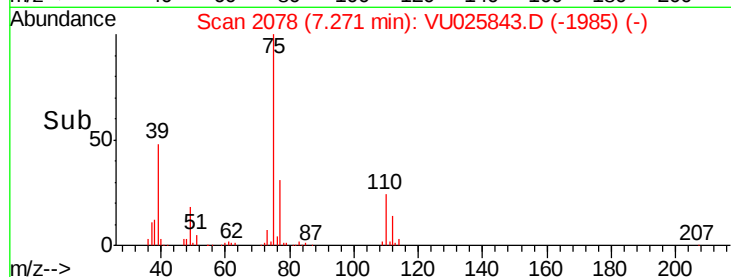
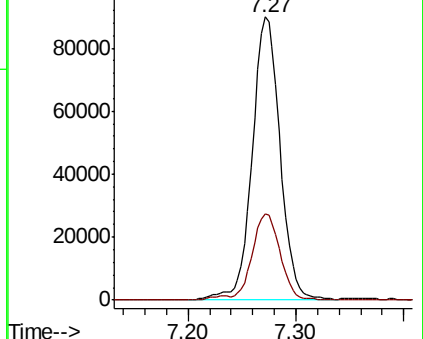
75 100

77 30.6 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#40

4-Methyl-2-pentanone

Concen: 95.442 ug/L

RT: 7.46 min Scan# 2137

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

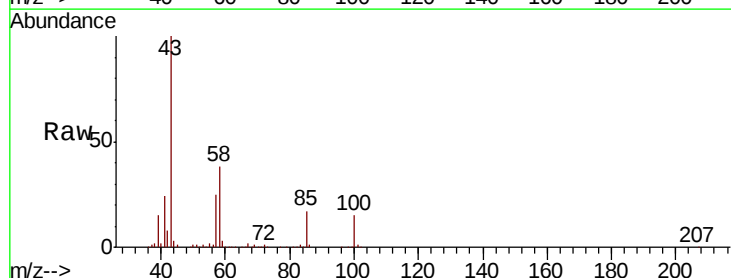
Tgt Ion: 43 Resp: 298476

Ion Ratio Lower Upper

43 100

58 38.9 30.8 46.2

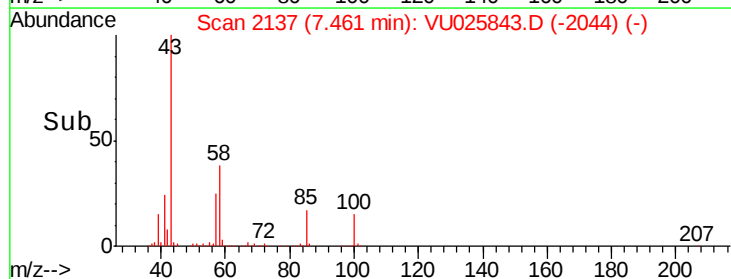
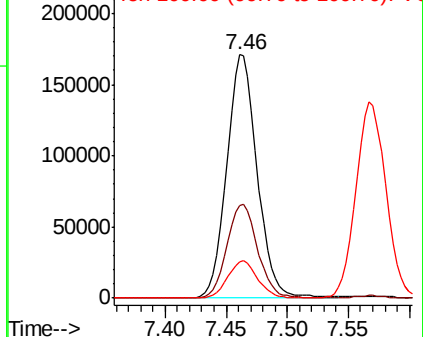
100 15.1 12.1 18.1

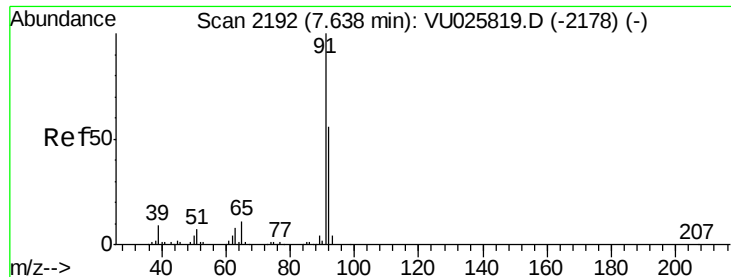


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#42

Toluene

Concen: 44.921 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

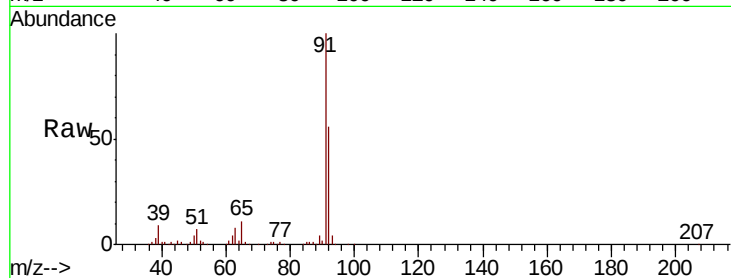
VSTD05051

Tgt Ion: 91 Resp: 422169

Ion Ratio Lower Upper

91 100

92 56.2 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.64

250000

200000

150000

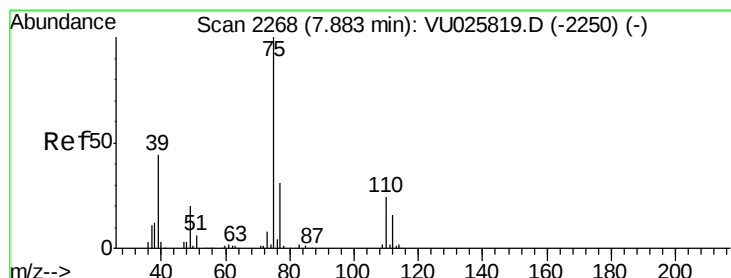
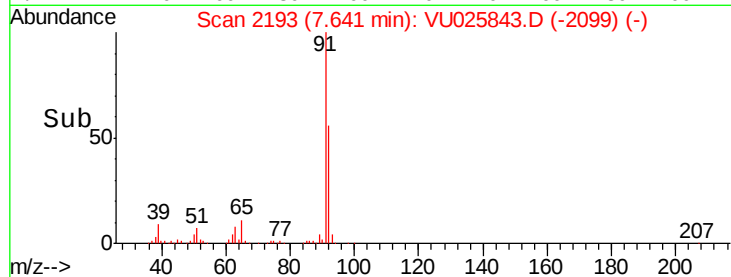
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#44

trans-1,3-Dichloropropene

Concen: 43.742 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU025843.D

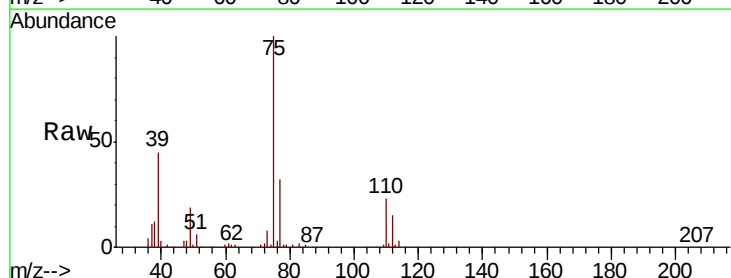
Acq: 04 Aug 2018 01:01

Tgt Ion: 75 Resp: 152419

Ion Ratio Lower Upper

75 100

77 31.6 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.88

100000

80000

60000

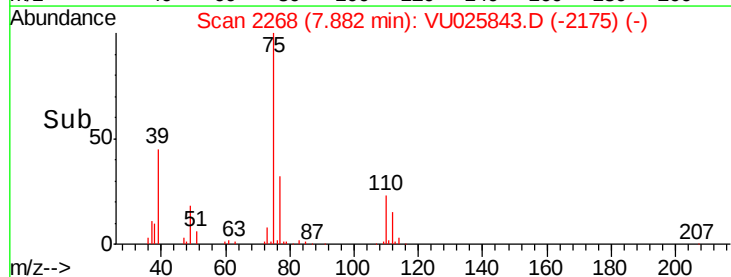
40000

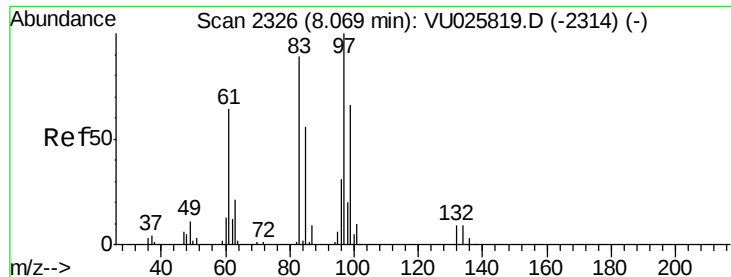
20000

0

7.80 7.85 7.90 7.95

Time-->

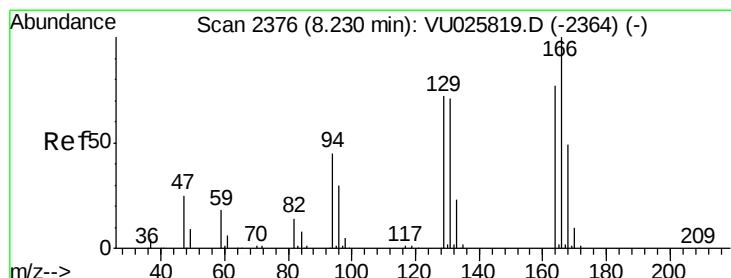
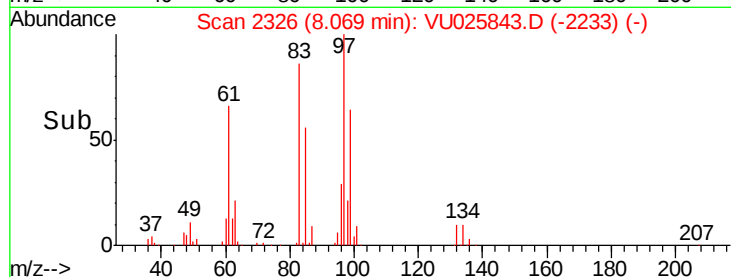
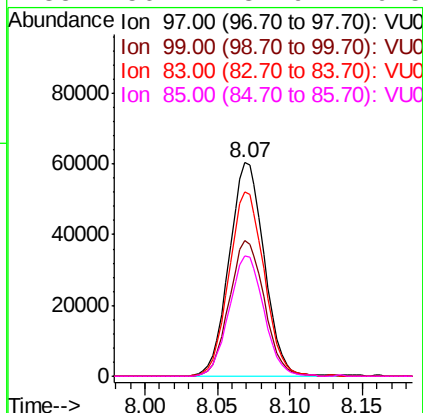
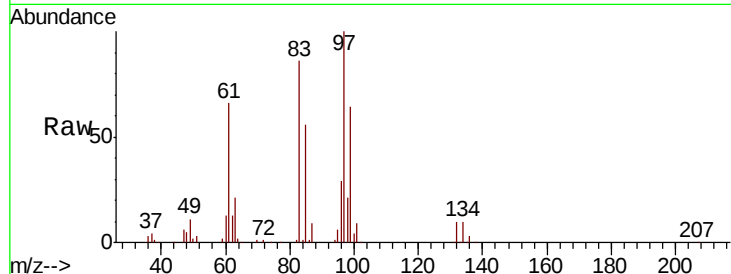




#45
 1,1,2-Trichloroethane
 Concen: 44.486 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU025843.D
 Acq: 04 Aug 2018 01:01

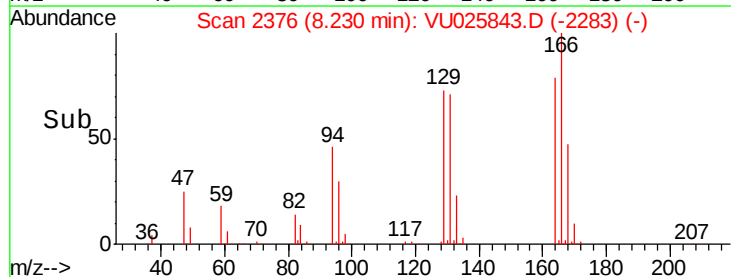
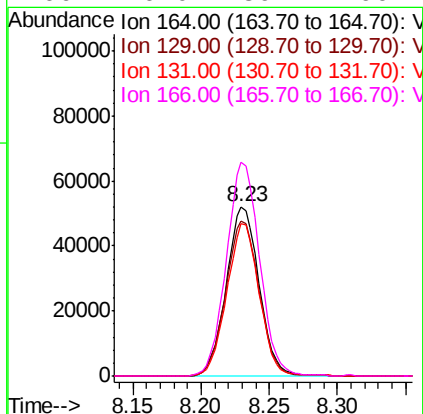
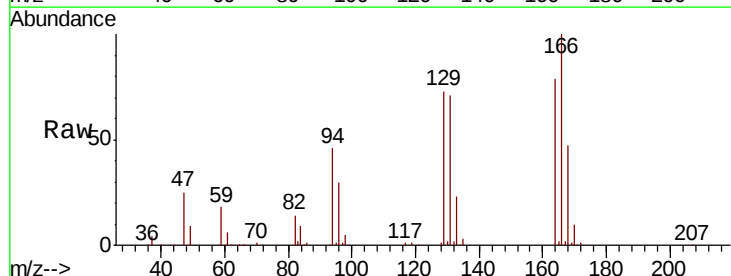
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

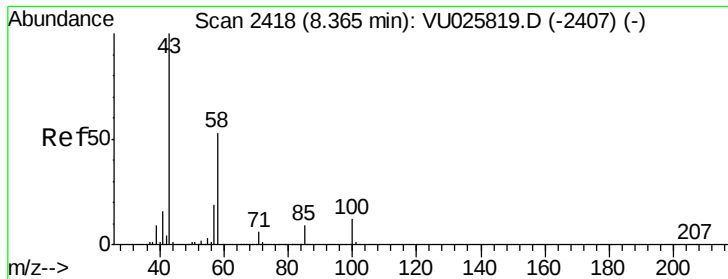
Tgt Ion:	97	Resp:	101617
Ion	Ratio	Lower	Upper
97	100		
99	63.6	44.3	82.3
83	86.5	59.8	111.1
85	56.2	37.9	70.5



#46
 Tetrachloroethene
 Concen: 43.509 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. -0.00 min
 Lab File: VU025843.D
 Acq: 04 Aug 2018 01:01

Tgt Ion:	164	Resp:	87218
Ion	Ratio	Lower	Upper
164	100		
129	91.7	65.1	120.9
131	89.5	62.8	116.6
166	126.0	89.7	166.7

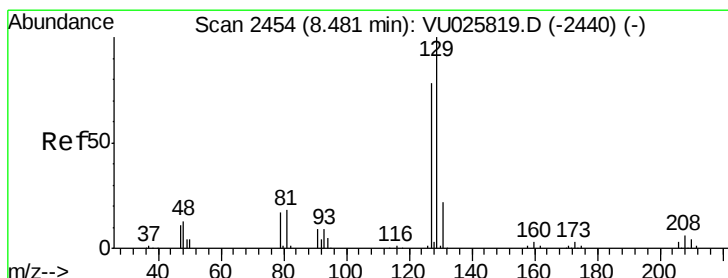
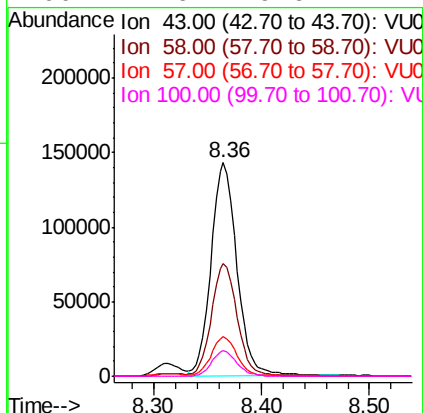
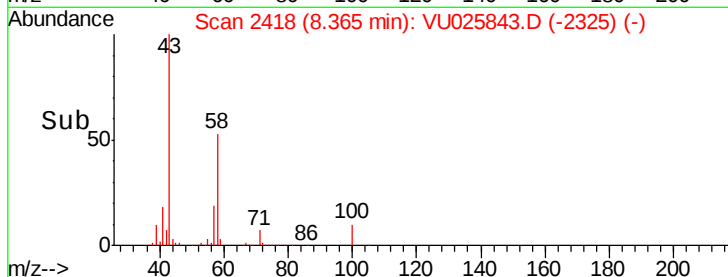
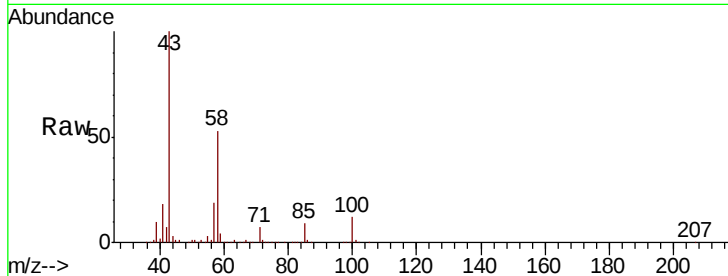




#48
2-Hexanone
Concen: 90.387 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU025843.D
Acq: 04 Aug 2018 01:01

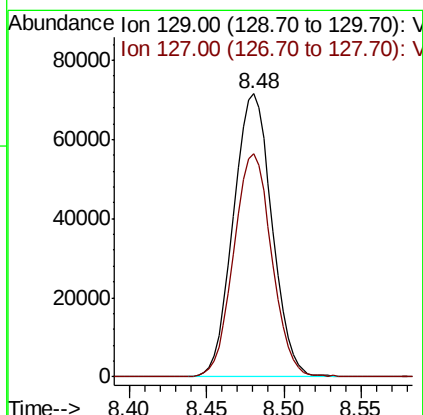
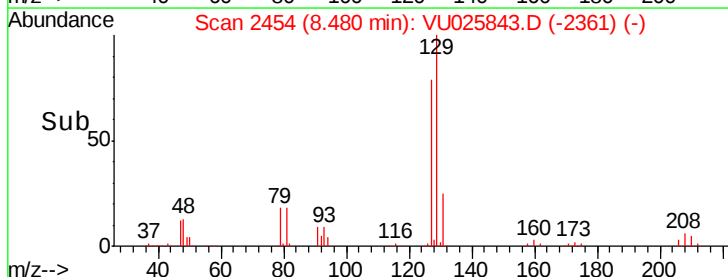
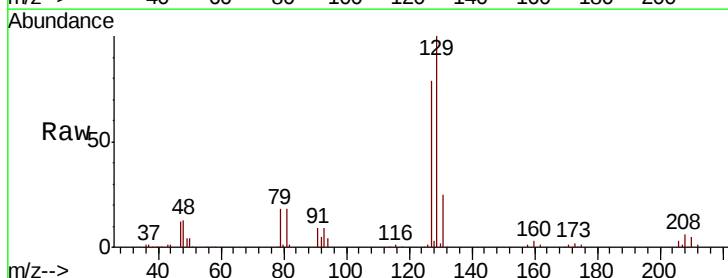
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

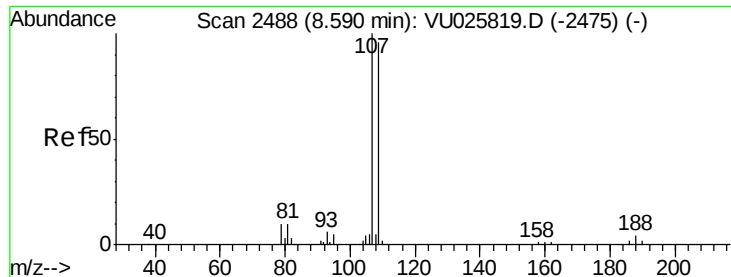
Tgt Ion:	43	Resp:	238850
Ion	Ratio	Lower	Upper
43	100		
58	52.4	42.9	64.3
57	18.3	15.4	23.2
100	11.6	9.6	14.4



#49
Dibromochloromethane
Concen: 46.364 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025843.D
Acq: 04 Aug 2018 01:01

Tgt Ion:	129	Resp:	124232
Ion	Ratio	Lower	Upper
129	100		
127	79.1	53.8	100.0





#50

1,2-Dibromoethane

Concen: 44.768 ug/L

RT: 8.59 min Scan# 2488

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

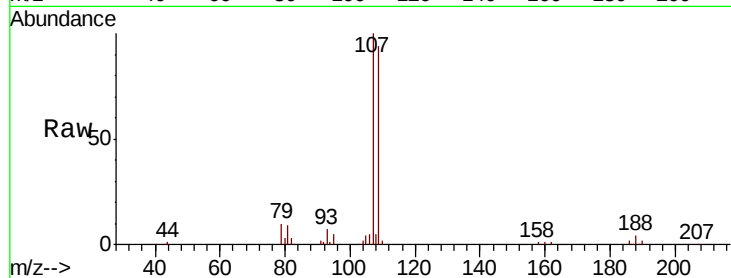
Tgt Ion:107 Resp: 110169

Ion Ratio Lower Upper

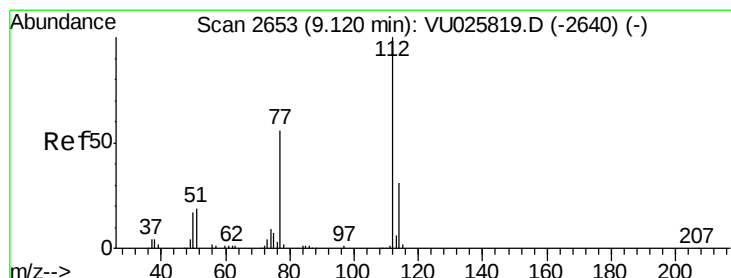
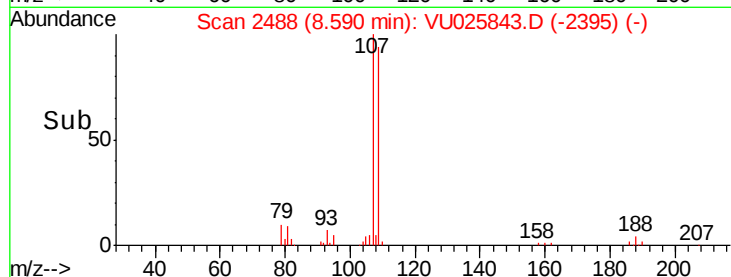
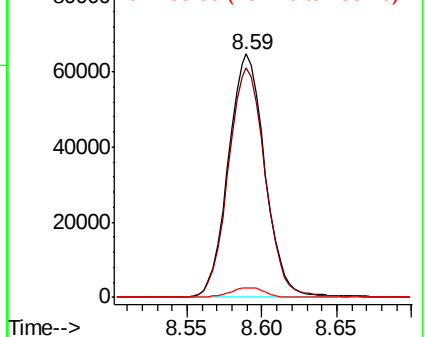
107 100

109 94.3 66.6 123.8

188 4.0 3.2 4.8



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 44.616 ug/L

RT: 9.12 min Scan# 2653

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

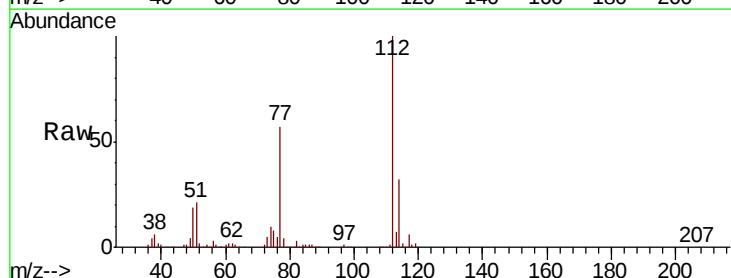
Tgt Ion:112 Resp: 282282

Ion Ratio Lower Upper

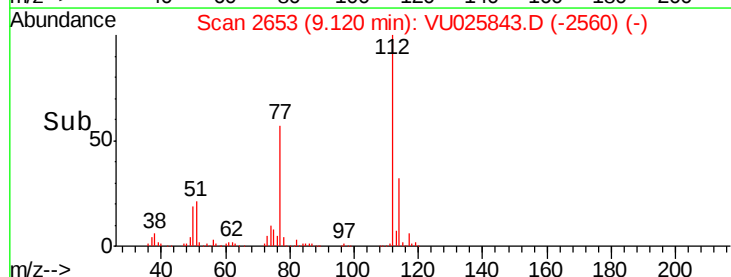
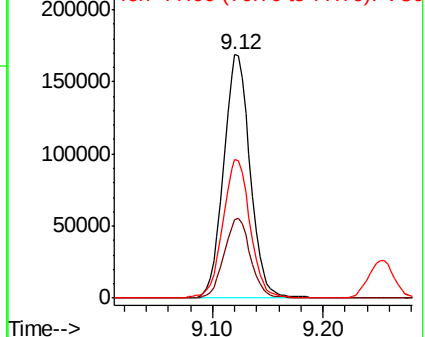
112 100

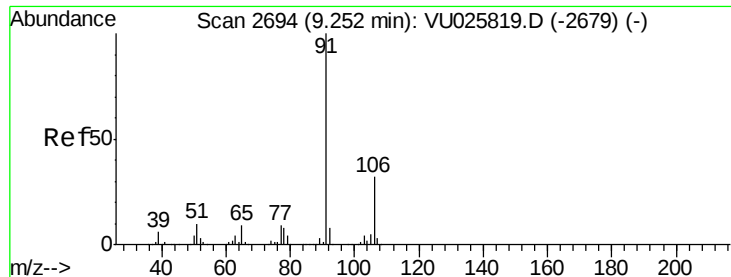
114 32.0 22.5 41.9

77 57.2 45.8 68.8



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 45.068 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

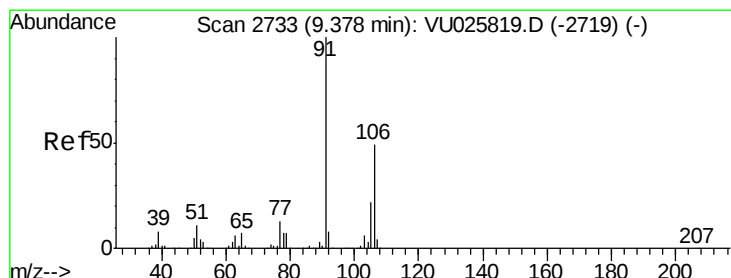
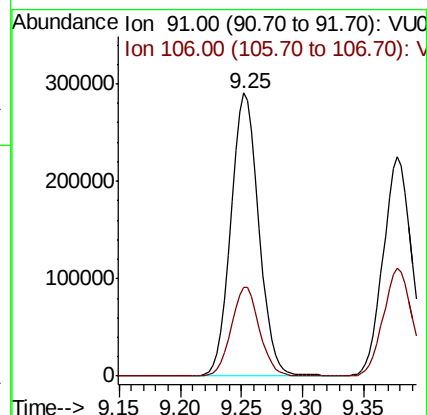
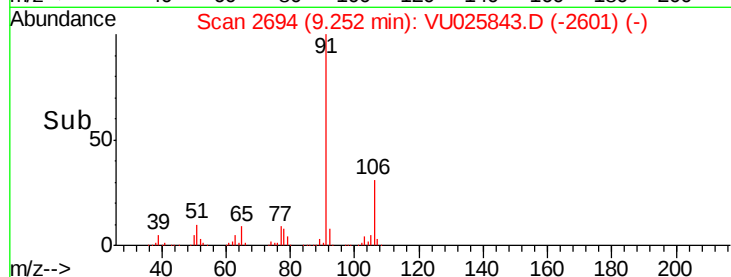
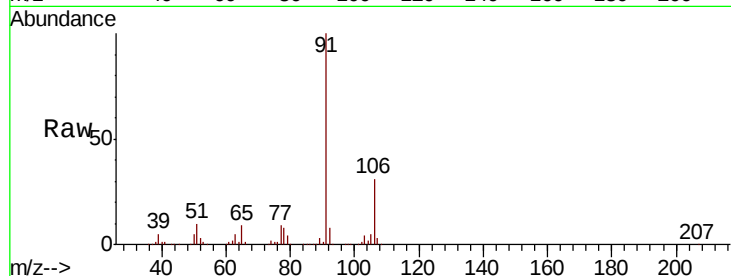
VSTD05051

Tgt Ion: 91 Resp: 467474

Ion Ratio Lower Upper

91 100

106 31.2 22.3 41.5



#53

m,p-Xylene

Concen: 46.173 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU025843.D

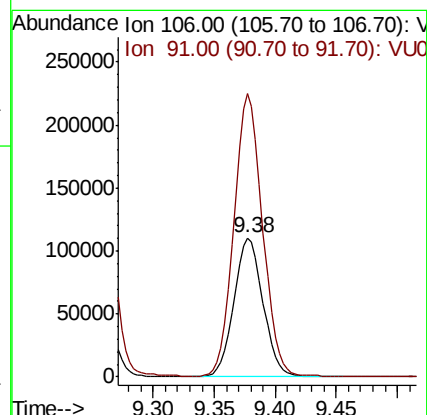
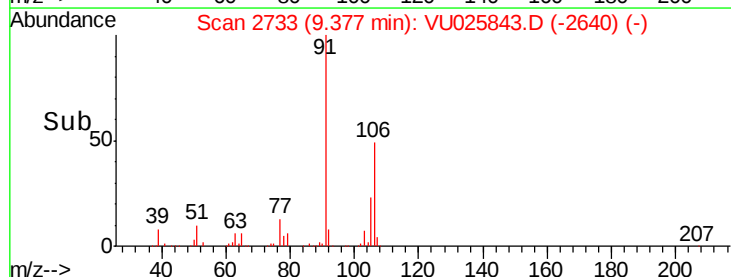
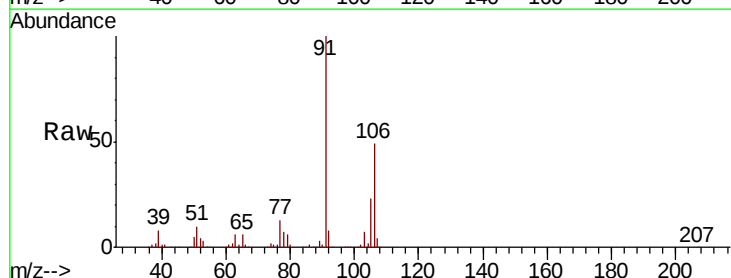
Acq: 04 Aug 2018 01:01

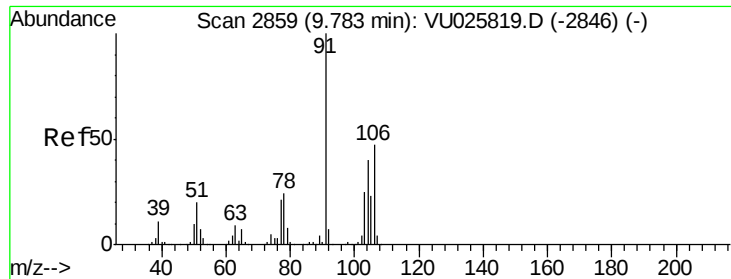
Tgt Ion: 106 Resp: 183450

Ion Ratio Lower Upper

106 100

91 203.8 141.7 263.3





#54

o-xylene

Concen: 44.419 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

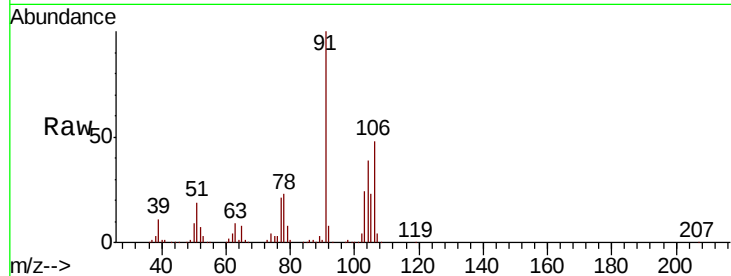
VSTD05051

Tgt Ion:106 Resp: 179075

Ion Ratio Lower Upper

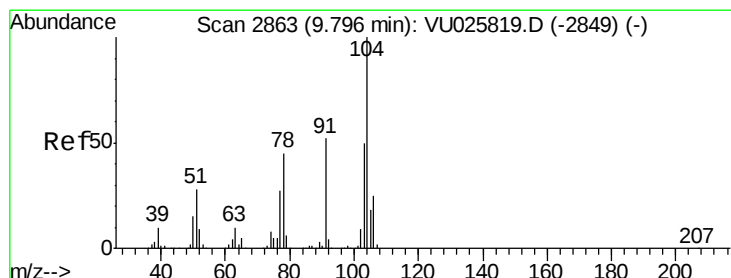
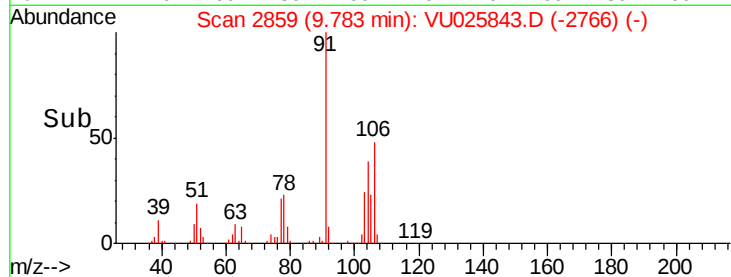
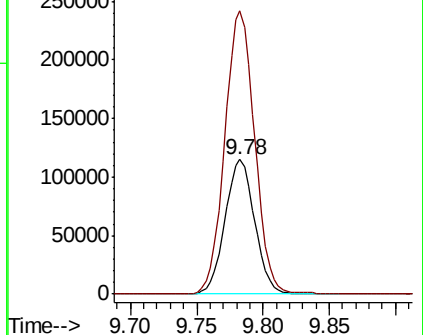
106 100

91 210.4 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 47.403 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU025843.D

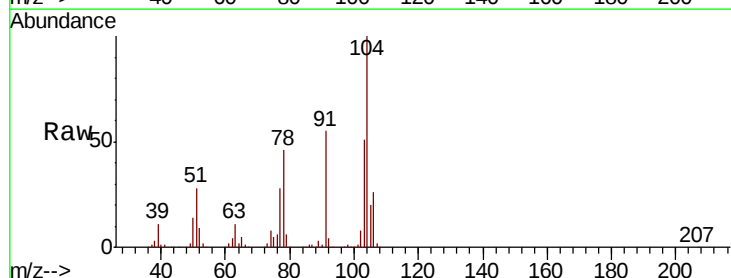
Acq: 04 Aug 2018 01:01

Tgt Ion:104 Resp: 311251

Ion Ratio Lower Upper

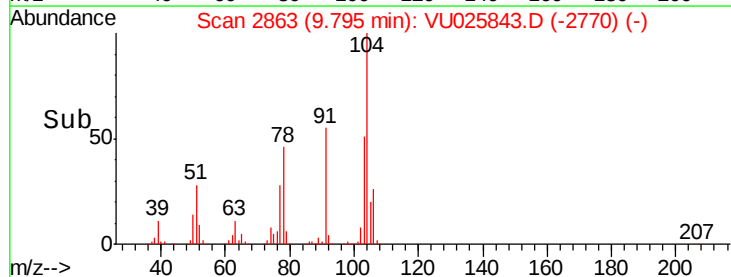
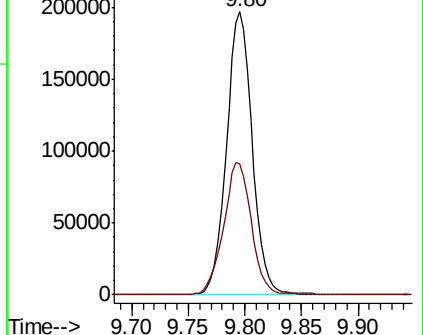
104 100

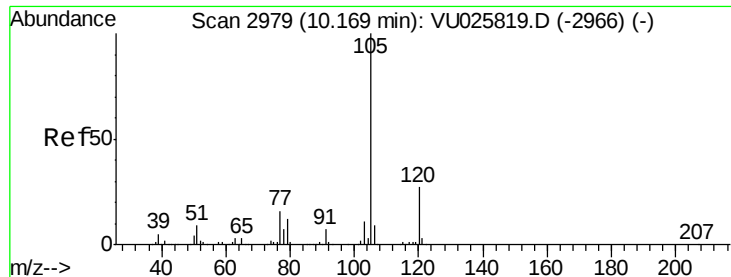
78 46.3 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 45.392 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

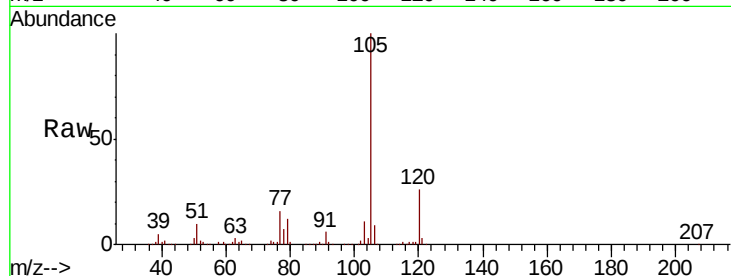
Tgt Ion: 105 Resp: 472271

Ion Ratio Lower Upper

105 100

120 26.7 21.7 32.5

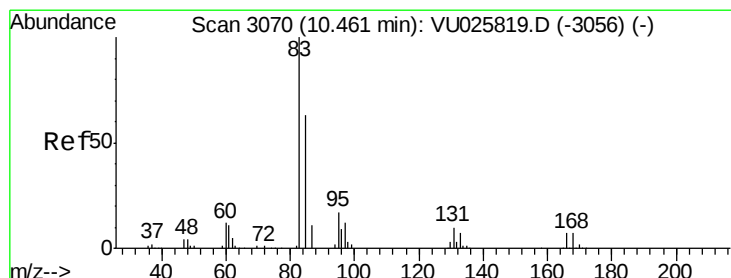
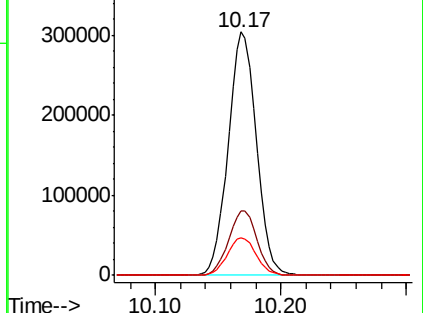
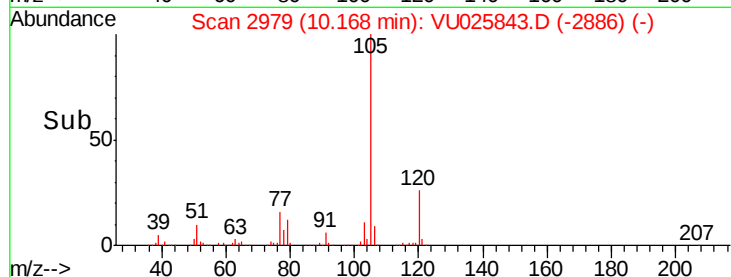
77 15.8 12.4 18.6



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: 46.070 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

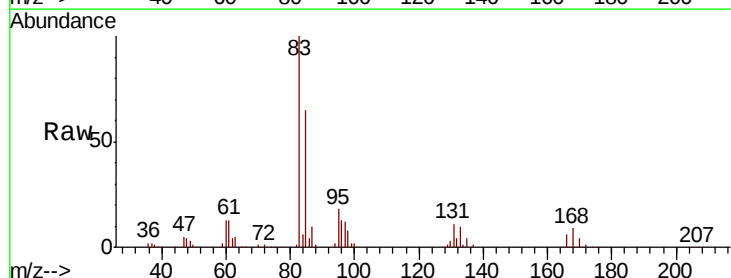
Tgt Ion: 83 Resp: 169744

Ion Ratio Lower Upper

83 100

85 65.1 45.1 83.7

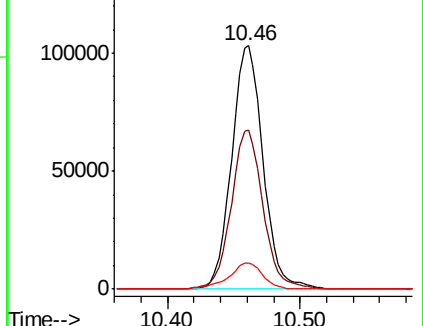
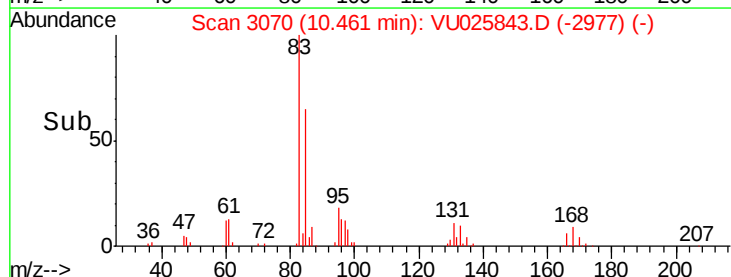
131 10.8 8.7 13.1

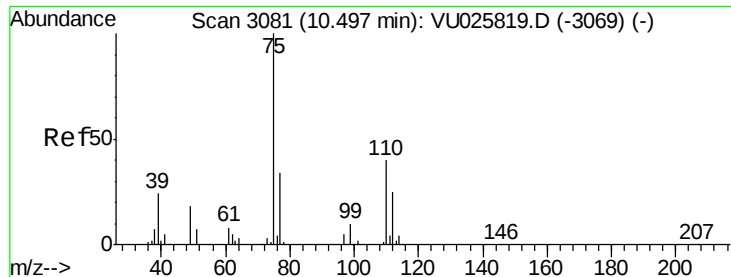


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.646 ug/L

RT: 10.50 min Scan# 3081

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

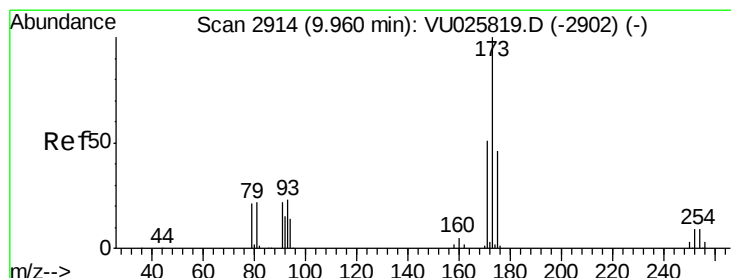
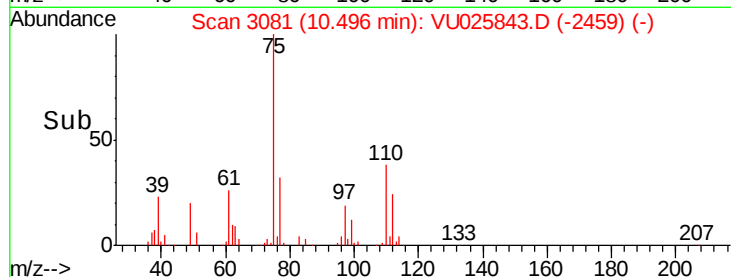
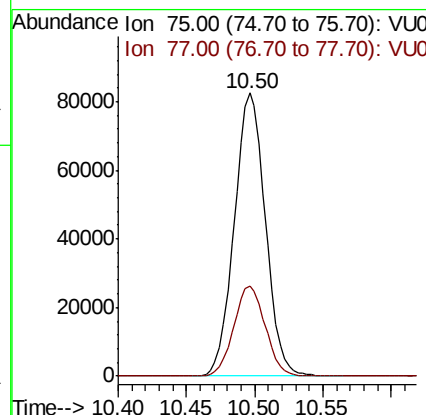
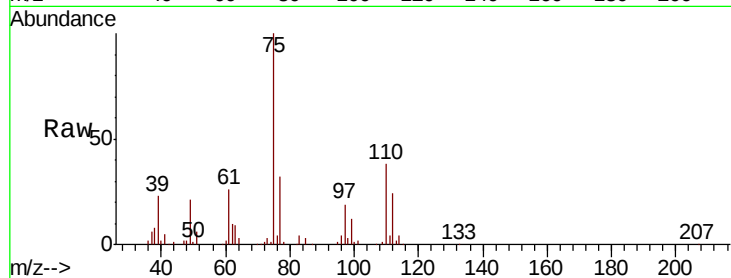
VSTD05051

Tgt Ion: 75 Resp: 130474

Ion Ratio Lower Upper

75 100

77 32.3 25.8 38.8



#61

Bromoform

Concen: 43.975 ug/L

RT: 9.96 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

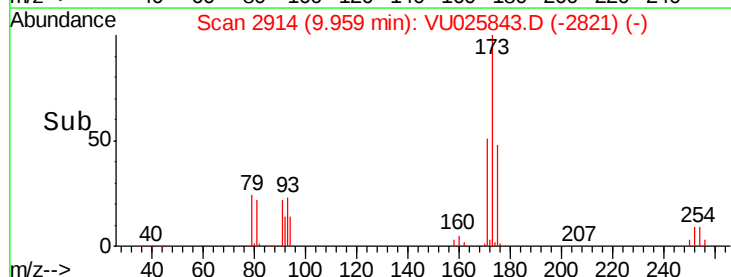
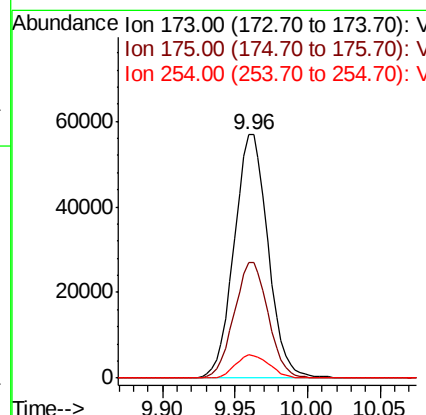
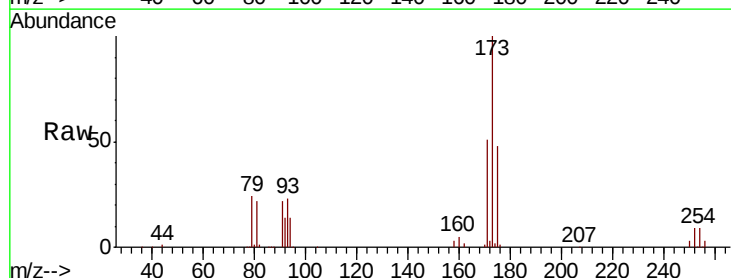
Tgt Ion: 173 Resp: 92592

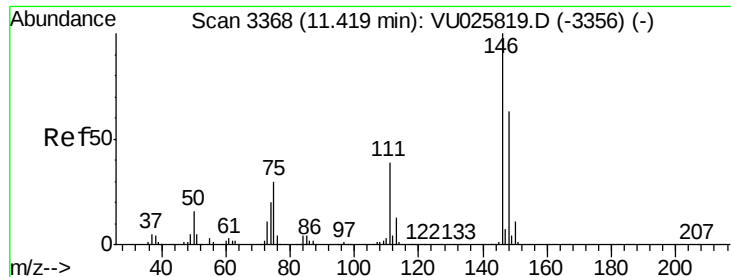
Ion Ratio Lower Upper

173 100

175 47.6 39.8 59.8

254 9.6 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 43.760 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

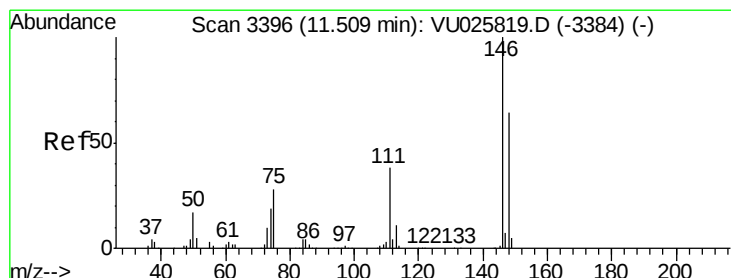
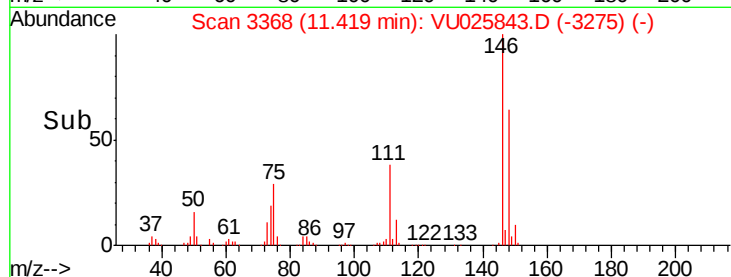
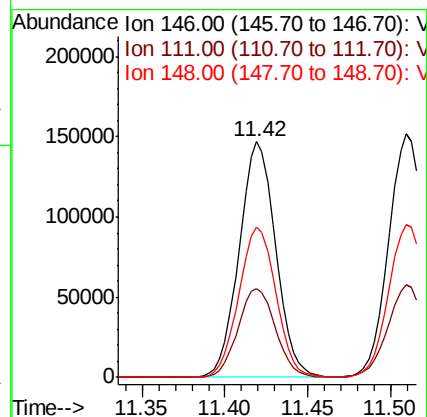
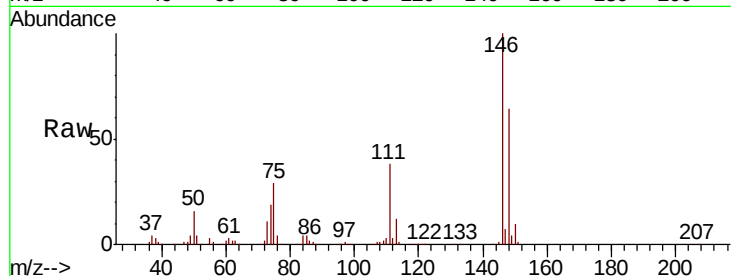
Tgt Ion:146 Resp: 225327

Ion Ratio Lower Upper

146 100

111 37.8 27.7 51.5

148 63.8 45.5 84.5



#63

1,4-Dichlorobenzene

Concen: 44.744 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

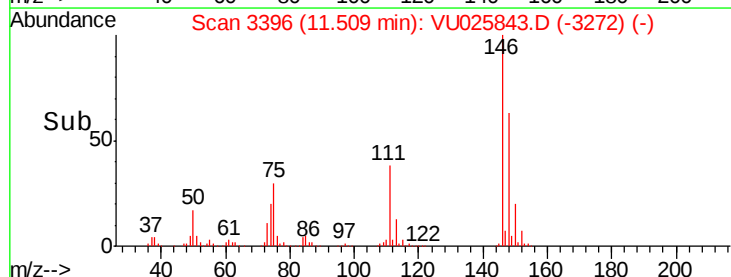
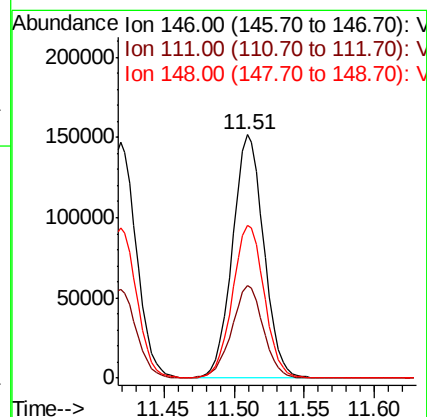
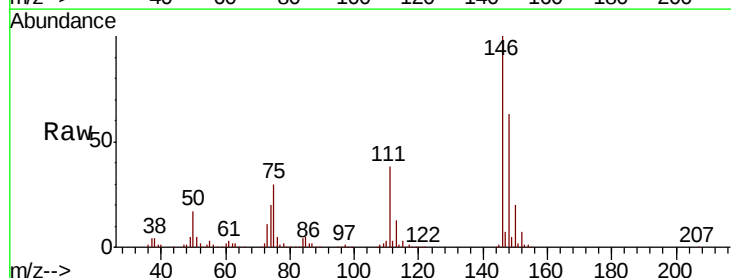
Tgt Ion:146 Resp: 235180

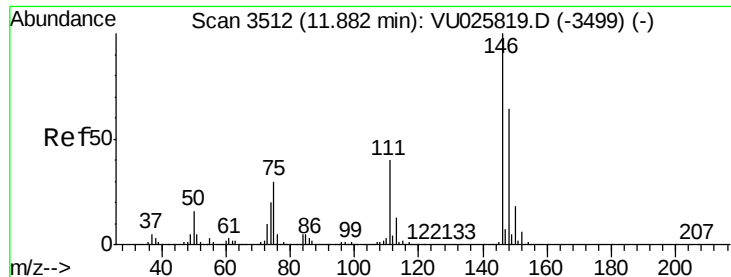
Ion Ratio Lower Upper

146 100

111 38.2 26.9 49.9

148 62.8 44.6 82.8

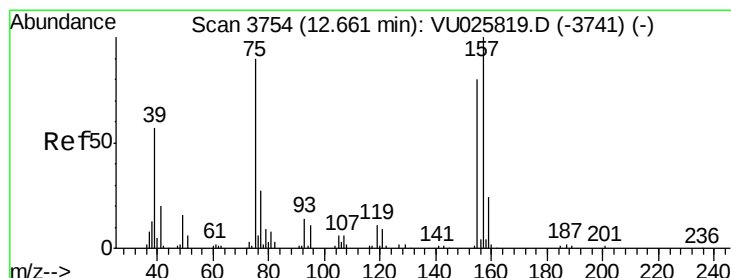
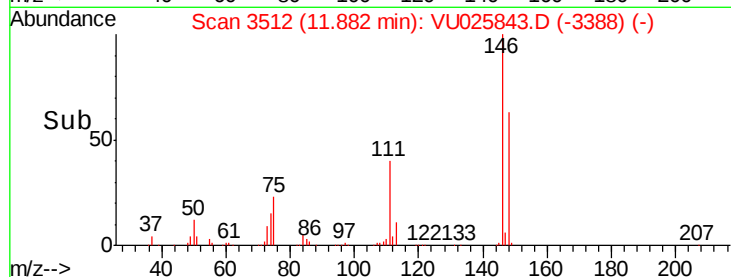
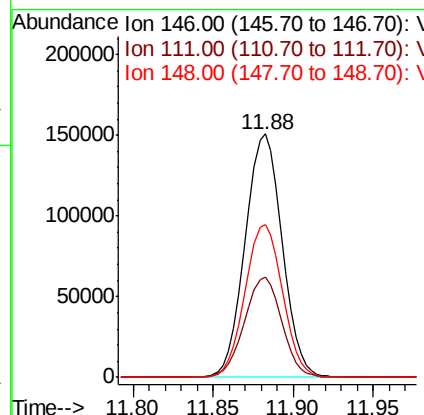
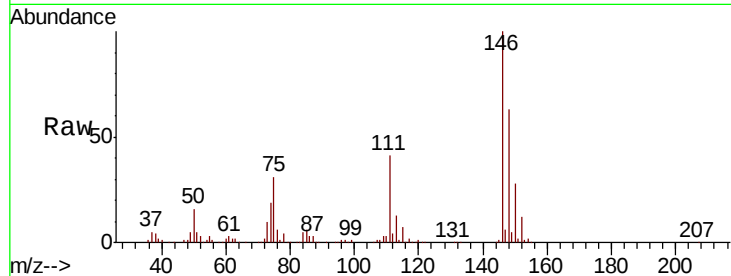




#65
 1,2-Dichlorobenzene
 Concen: 44.123 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025843.D
 Acq: 04 Aug 2018 01:01

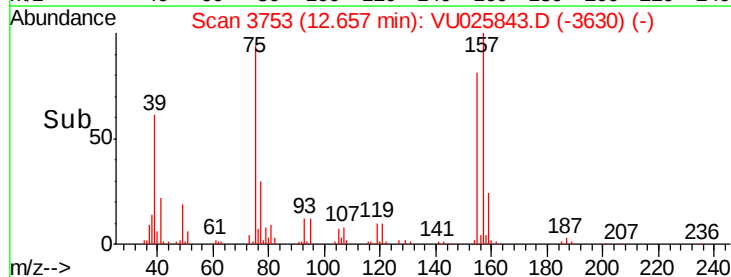
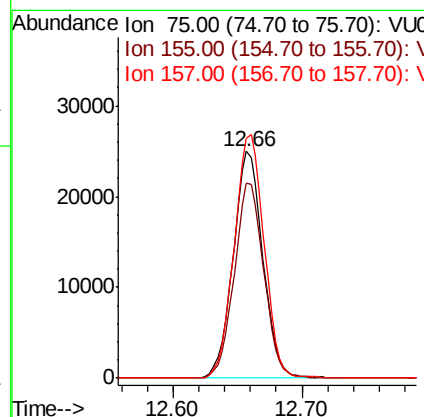
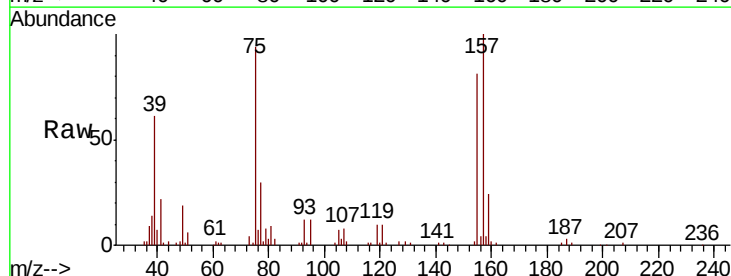
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

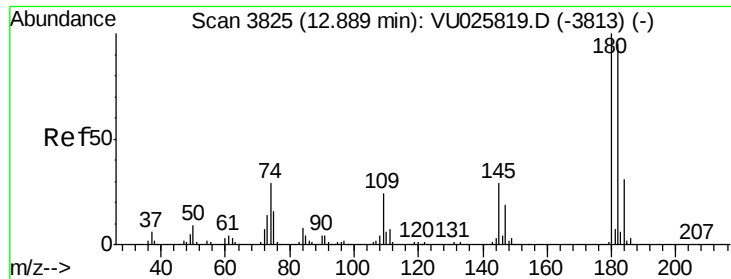
Tgt Ion: 146 Resp: 238020
 Ion Ratio Lower Upper
 146 100
 111 41.1 32.4 48.6
 148 62.8 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.938 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. -0.00 min
 Lab File: VU025843.D
 Acq: 04 Aug 2018 01:01

Tgt Ion: 75 Resp: 39821
 Ion Ratio Lower Upper
 75 100
 155 86.2 66.3 99.5
 157 106.2 91.5 137.3

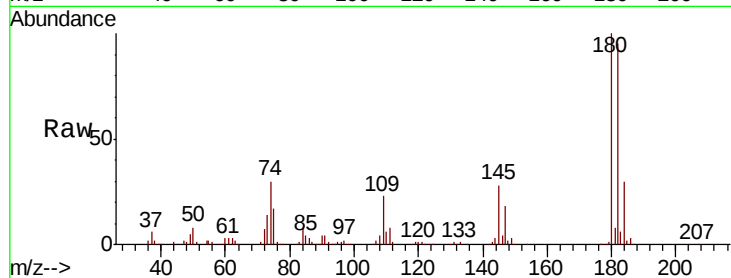




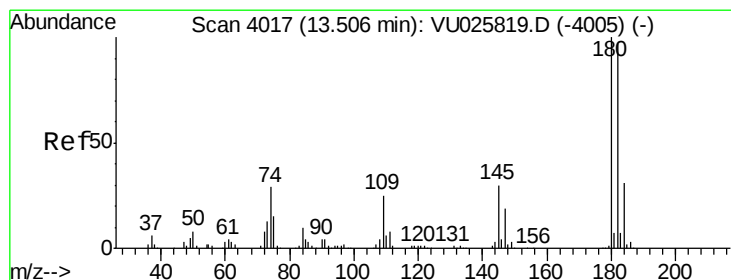
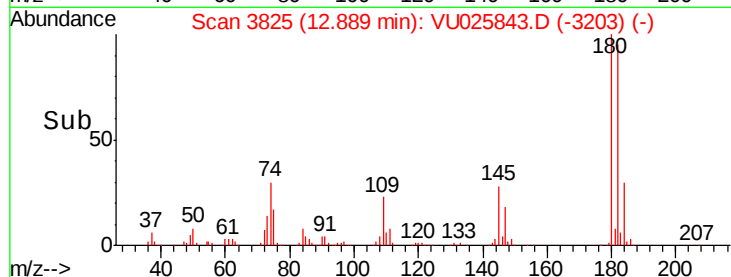
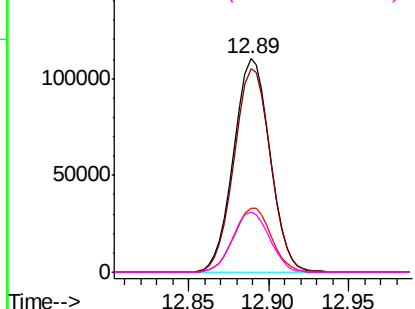
#67
 1,3,5-Trichlorobenzene
 Concen: 43.007 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU025843.D
 Acq: 04 Aug 2018 01:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

Tgt Ion:180 Resp: 170935
 Ion Ratio Lower Upper
 180 100
 182 95.4 77.3 115.9
 184 30.7 24.6 36.8
 145 28.8 23.0 34.6

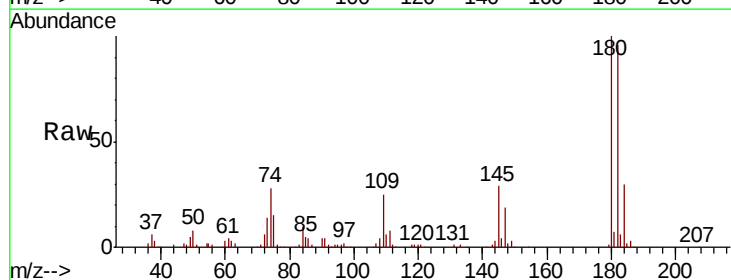


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

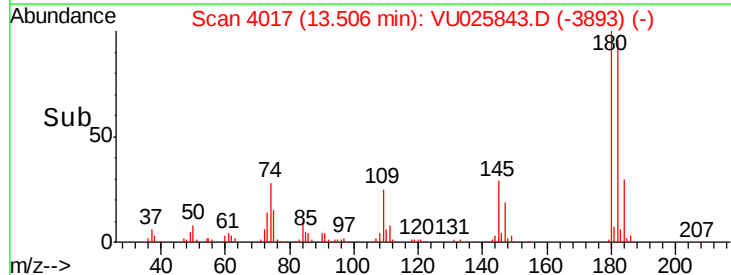
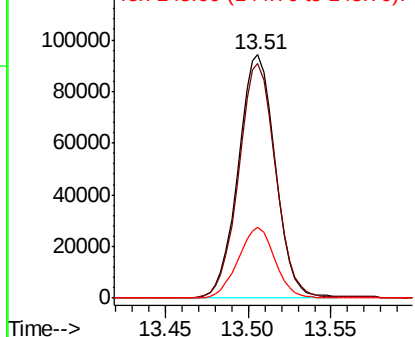


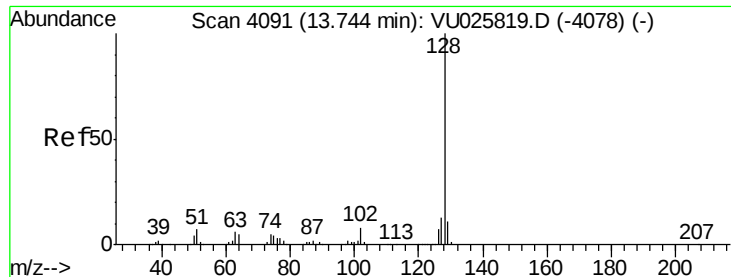
#68
 1,2,4-trichlorobenzene
 Concen: 43.878 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025843.D
 Acq: 04 Aug 2018 01:01

Tgt Ion:180 Resp: 146572
 Ion Ratio Lower Upper
 180 100
 182 96.2 78.1 117.1
 145 28.9 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: 44.727 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

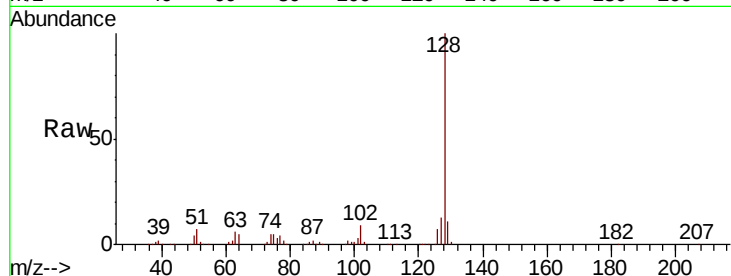
Tgt Ion:128 Resp: 449301

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

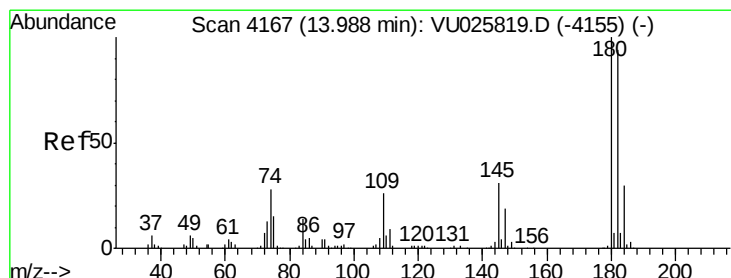
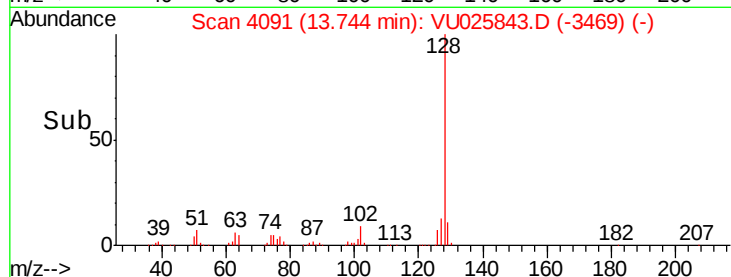
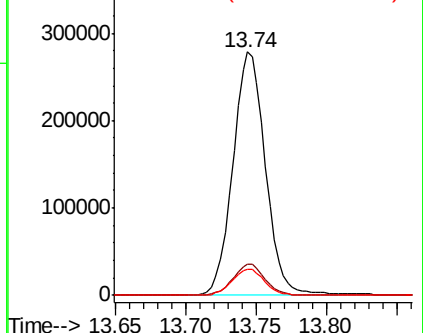
129 10.8 8.4 12.6



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: 44.476 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. -0.00 min

Lab File: VU025843.D

Acq: 04 Aug 2018 01:01

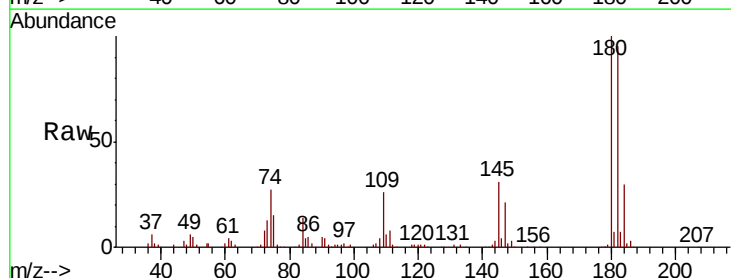
Tgt Ion:180 Resp: 157052

Ion Ratio Lower Upper

180 100

182 95.5 76.6 114.8

145 31.6 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

