

Data File : VU031811.D
Acq On : 07 May 2019 17:48
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05038

Quant Time: May 08 06:52:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 08 06:47:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	651046	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	634088	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	265184	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	253578	46.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.08%
7) Chloroethane-d5	1.68	69	184675	43.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.72%
11) 1,1-Dichloroethene-d2	2.27	63	522983	48.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.40%
21) 2-Butanone-d5	4.18	46	544926	110.38	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.38%
24) Chloroform-d	4.64	84	486251	48.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.46%
26) 1,2-Dichloroethane-d4	5.31	65	337131	51.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.42%
32) Benzene-d6	5.33	84	927874	47.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.30%
36) 1,2-Dichloropropane-d6	6.32	67	328819	48.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.00%
41) Toluene-d8	7.56	98	792201	46.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.42%
43) trans-1,3-Dichloropropene-	7.85	79	142378	48.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.84%
47) 2-Hexanone-d5	8.31	63	299754	101.10	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.10%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	427983	46.55	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.10%
64) 1,2-Dichlorobenzene-d4	11.86	152	250729	44.96	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.92%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	309614	43.247 ug/L	99
3) Chloromethane	1.32	50	354511	40.928 ug/L	99
5) Vinyl chloride	1.40	62	323727	39.975 ug/L	99
6) Bromomethane	1.63	94	149623	35.035 ug/L	98
8) Chloroethane	1.69	64	179215	40.485 ug/L	97
9) Trichlorofluoromethane	1.88	101	391895	42.451 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	220636	42.278 ug/L	97
12) 1,1-Dichloroethene	2.28	96	214192	42.168 ug/L	90
13) Acetone	2.33	43	509585	91.636 ug/L	96
14) Carbon disulfide	2.47	76	647712	38.427 ug/L	99
15) Methyl Acetate	2.62	43	444022	52.769 ug/L	96
16) Methylene chloride	2.69	84	272138	45.398 ug/L	89
17) trans-1,2-Dichloroethene	2.98	96	229908	43.438 ug/L	96
18) Methyl tert-butyl Ether	2.99	73	868922	51.529 ug/L	97
19) 1,1-Dichloroethane	3.44	63	558432	50.098 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	265471	46.758 ug/L	92
22) 2-Butanone	4.27	43	674262	109.440 ug/L	95

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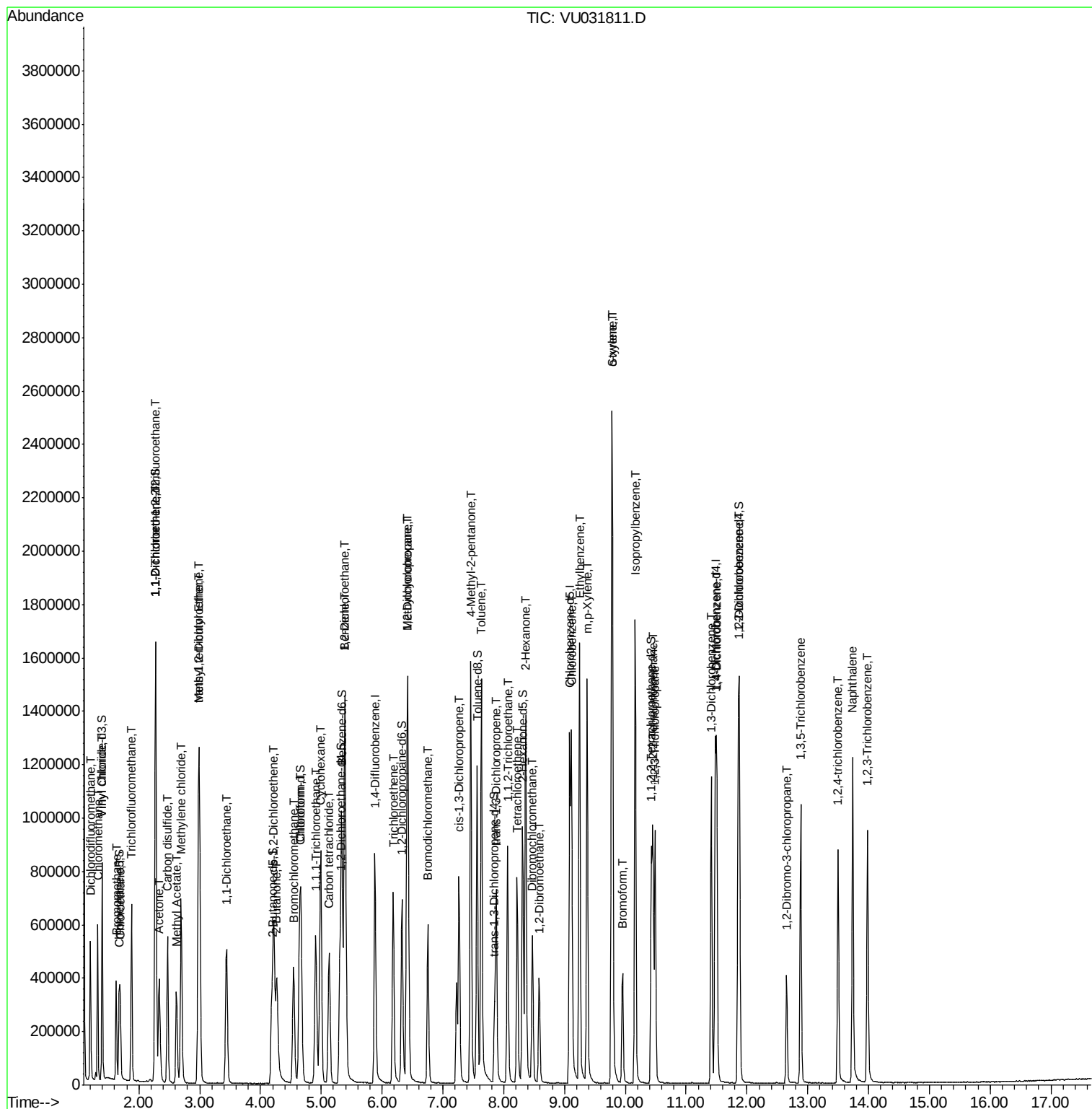
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	122157	44.279	ug/L	88
25) Chloroform	4.67	83	516156	48.424	ug/L	99
27) 1,2-Dichloroethane	5.40	62	454410	52.485	ug/L #	95
29) Cyclohexane	4.99	56	465258	46.361	ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	418008	47.050	ug/L	98
31) Carbon tetrachloride	5.13	117	340821	44.883	ug/L	98
33) Benzene	5.38	78	1093394	46.901	ug/L	100
34) Trichloroethene	6.18	95	268347	47.486	ug/L	93
35) Methylcyclohexane	6.41	83	384226	45.368	ug/L	97
37) 1,2-Dichloropropane	6.43	63	328473	49.631	ug/L	100
38) Bromodichloromethane	6.75	83	386681	48.187	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	439304	50.233	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	1144128	112.362	ug/L	96
42) Toluene	7.63	91	1085411	46.739	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	391359	49.339	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	261914	48.004	ug/L	99
46) Tetrachloroethene	8.22	164	159742	41.464	ug/L	98
48) 2-Hexanone	8.36	43	928042	112.687	ug/L	97
49) Dibromochloromethane	8.47	129	261009	45.976	ug/L	100
50) 1,2-Dibromoethane	8.58	107	266529	46.253	ug/L	97
51) Chlorobenzene	9.12	112	614132	44.751	ug/L	94
52) Ethylbenzene	9.25	91	1140272	47.336	ug/L	100
53) m,p-Xylene	9.37	106	402579	47.966	ug/L	99
54) o-xylene	9.77	106	402490	48.372	ug/L	96
55) Styrene	9.79	104	693862	48.809	ug/L	96
56) Isopropylbenzene	10.16	105	1052294	48.094	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.45	83	465007	48.029	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	385193	49.089	ug/L	100
61) Bromoform	9.96	173	175580	44.666	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	406553	46.315	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	424948	46.744	ug/L	97
65) 1,2-Dichlorobenzene	11.87	146	440041	47.168	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	111880	51.672	ug/L	94
67) 1,3,5-Trichlorobenzene	12.88	180	286726	43.611	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	240874	46.278	ug/L	99
69) Naphthalene	13.74	128	901378	50.793	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	264859	44.696	ug/L	97

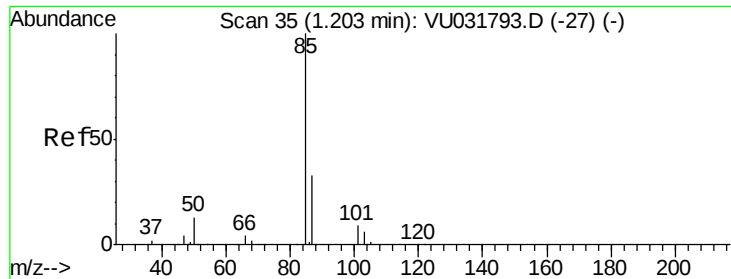
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 43.247 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

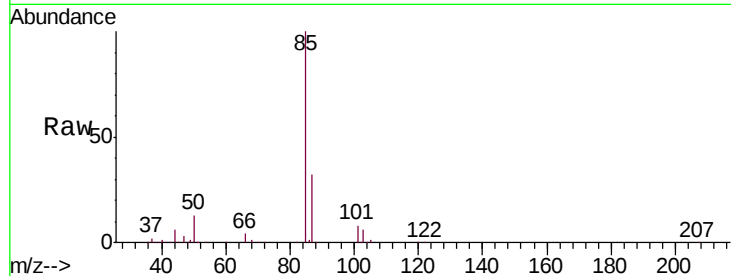
VSTD05038

Tgt Ion: 85 Resp: 309614

Ion Ratio Lower Upper

85 100

87 31.4 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031793.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU031793.D (-27) (-)

1.20

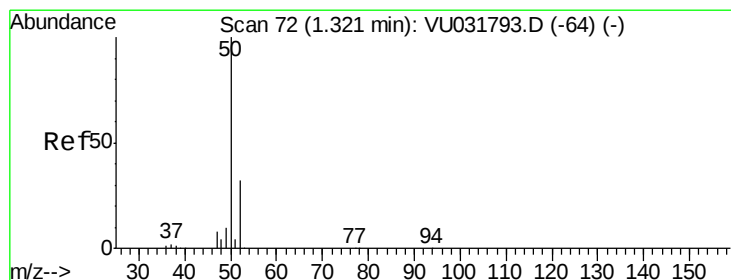
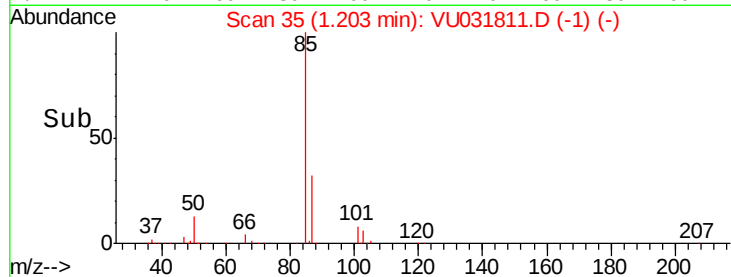
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 40.928 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU031811.D

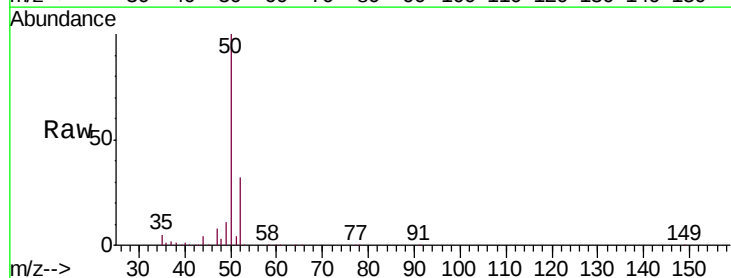
Acq: 07 May 2019 17:48

Tgt Ion: 50 Resp: 354511

Ion Ratio Lower Upper

50 100

52 32.0 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU031793.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU031793.D (-64) (-)

1.32

400000

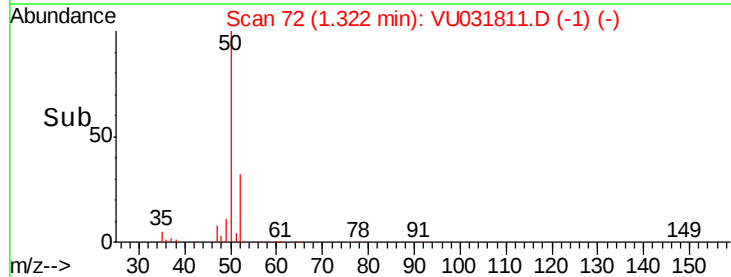
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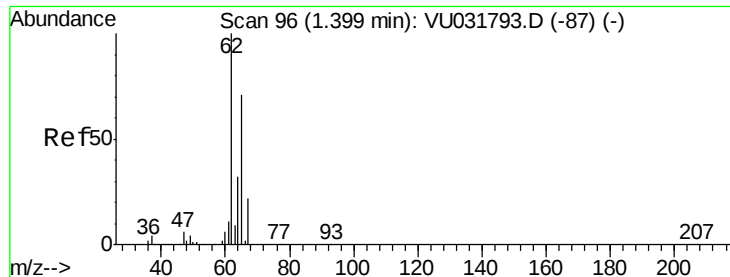
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 39.975 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

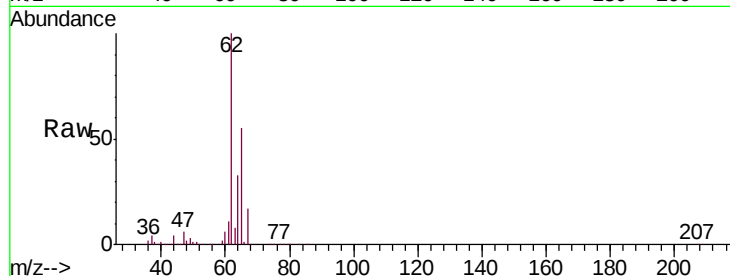
VSTD05038

Tgt Ion: 62 Resp: 323727

Ion Ratio Lower Upper

62 100

64 32.6 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU031793.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU031793.D (-87) (-)

1.40

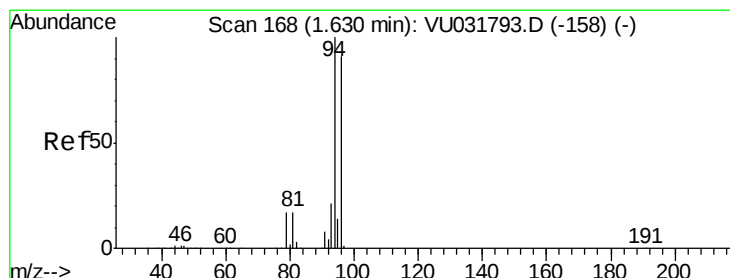
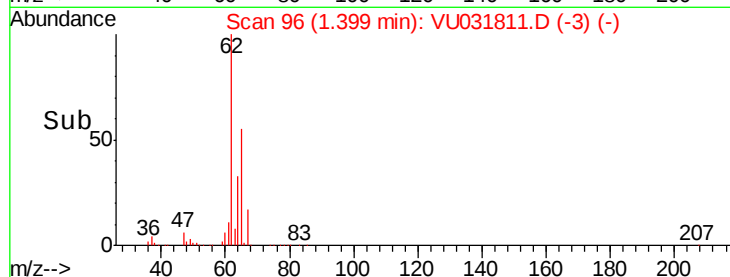
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 35.035 ug/L

RT: 1.63 min Scan# 167

Delta R.T. -0.00 min

Lab File: VU031811.D

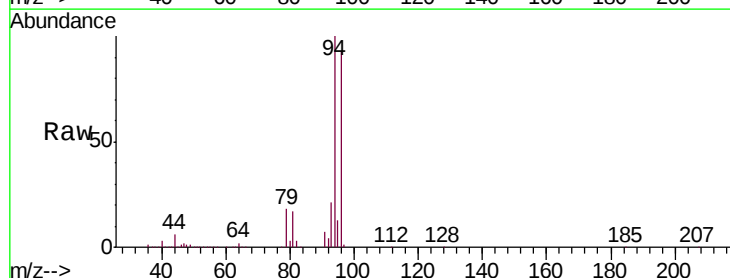
Acq: 07 May 2019 17:48

Tgt Ion: 94 Resp: 149623

Ion Ratio Lower Upper

94 100

96 92.7 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU031793.D (-158) (-)

Ion 96.00 (95.70 to 96.70): VU031793.D (-158) (-)

1.63

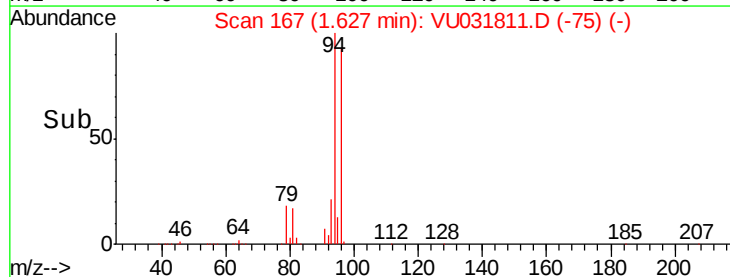
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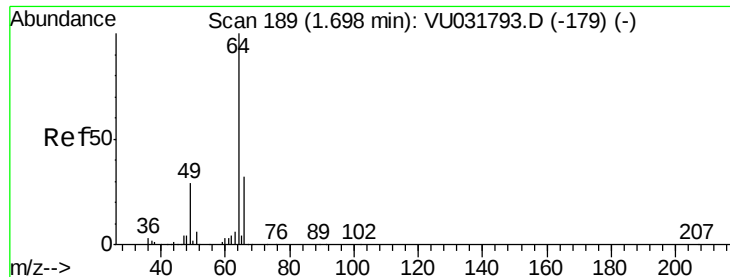
100000

50000

0

Time-->





#8

Chloroethane

Concen: 40.485 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.01 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

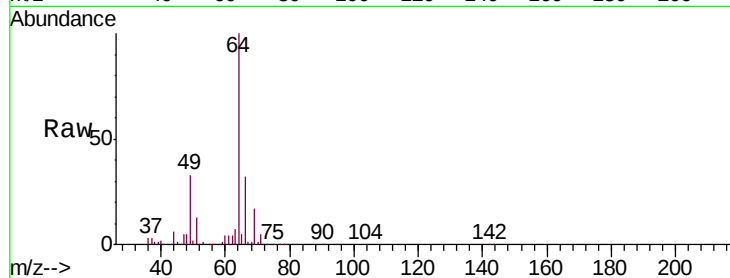
VSTD05038

Tgt Ion: 64 Resp: 179215

Ion Ratio Lower Upper

64 100

66 31.6 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VU031793.D (-179) (-)

Ion 66.00 (65.70 to 66.70): VU031793.D (-179) (-)

1.69

150000

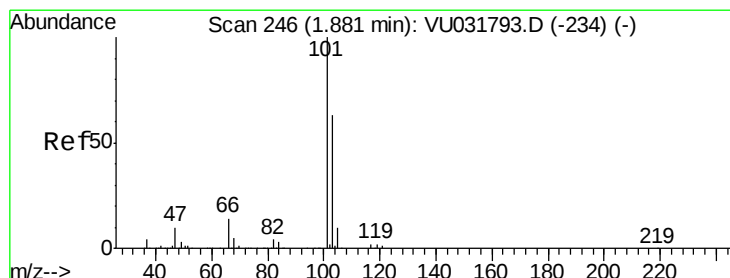
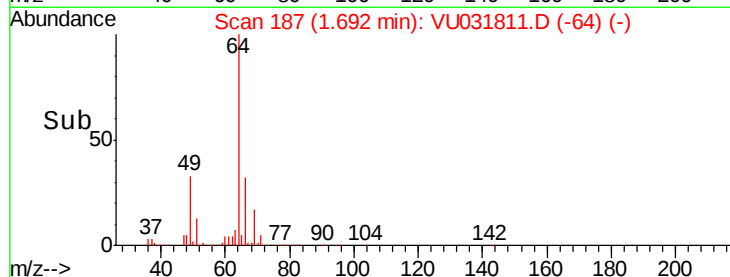
100000

50000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 42.451 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU031811.D

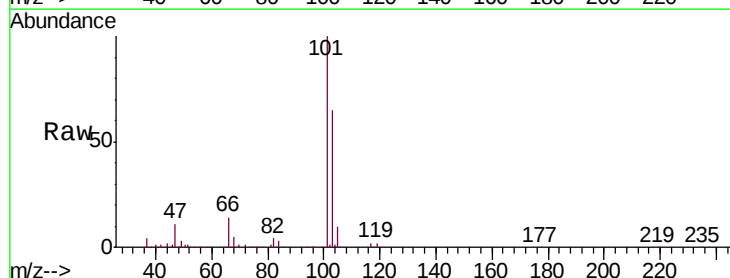
Acq: 07 May 2019 17:48

Tgt Ion: 101 Resp: 391895

Ion Ratio Lower Upper

101 100

103 64.7 50.8 76.2



Abundance Ion 101.00 (100.70 to 101.70): VU031793.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU031793.D (-234) (-)

1.88

300000

250000

200000

150000

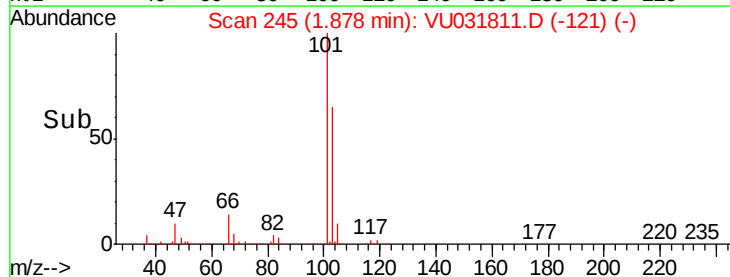
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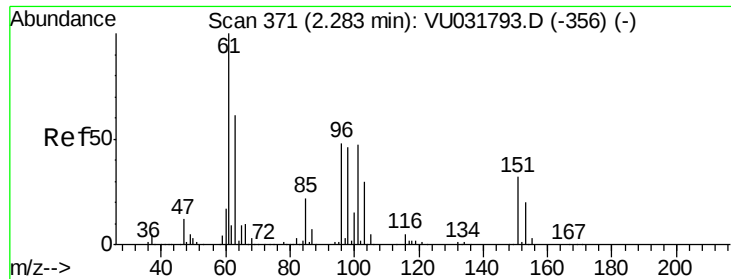
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 42.278 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

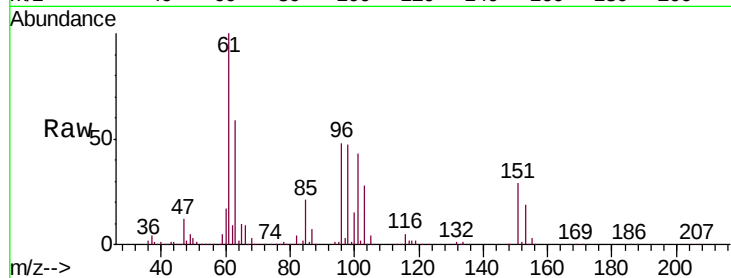
Tgt Ion:101 Resp: 220636

Ion Ratio Lower Upper

101 100

85 48.2 36.1 54.1

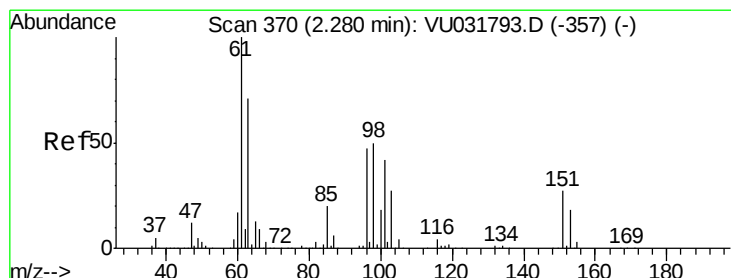
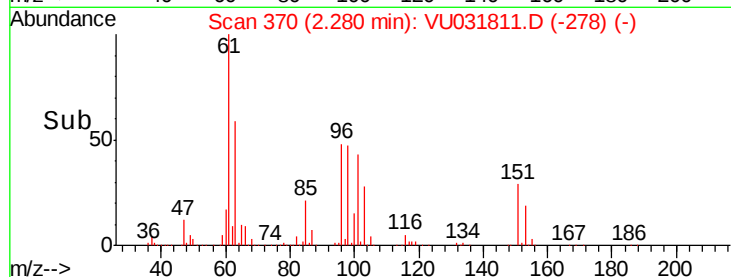
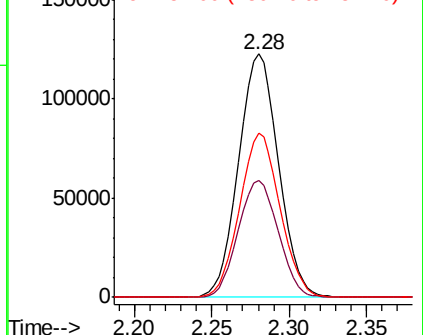
151 68.3 56.1 84.1



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: 42.168 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

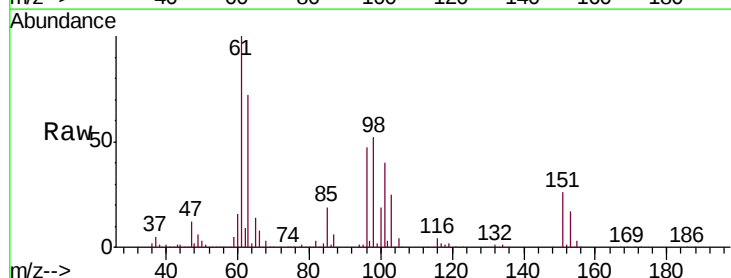
Tgt Ion: 96 Resp: 214192

Ion Ratio Lower Upper

96 100

61 214.0 135.0 250.6

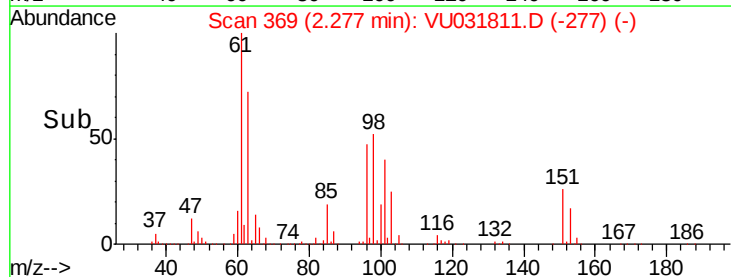
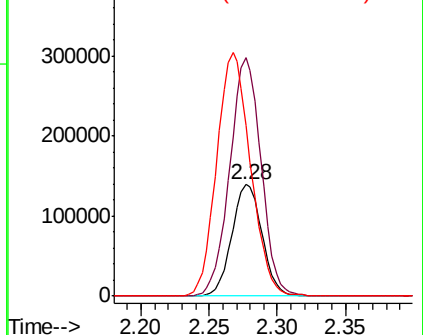
63 154.1 103.5 192.3

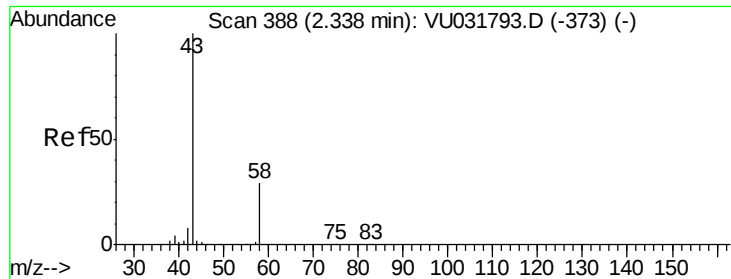


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 91.636 ug/L

RT: 2.33 min Scan# 386

Delta R.T. -0.01 min

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MSVOA_U

ClientSampled :

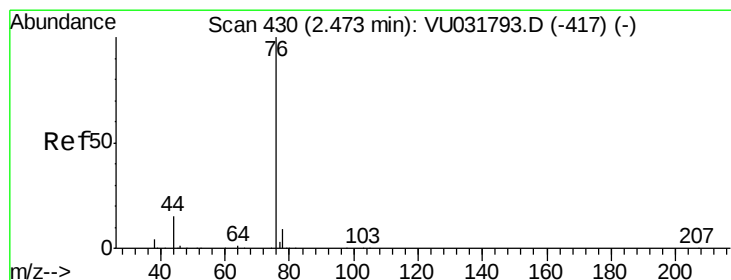
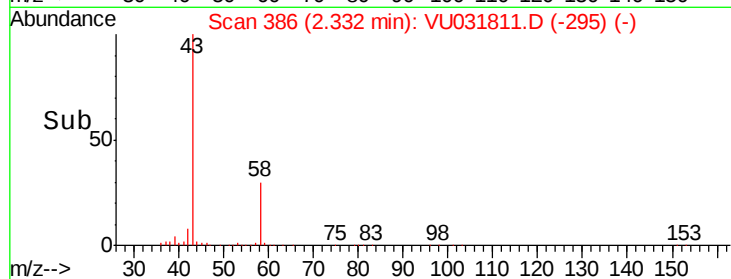
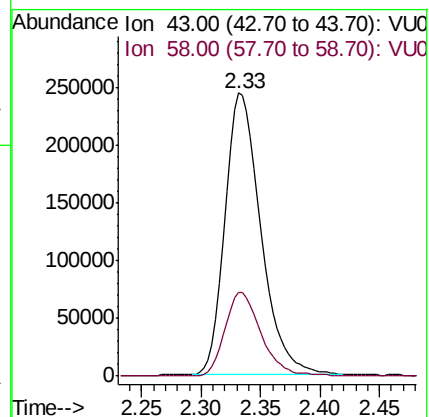
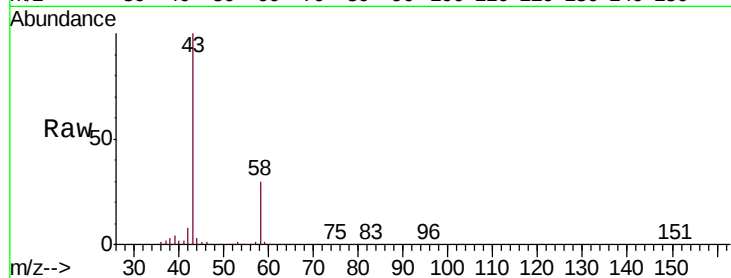
VSTD05038

Tgt Ion: 43 Resp: 509585

Ion Ratio Lower Upper

43 100

58 30.0 0.0 64.4



#14

Carbon disulfide

Concen: 38.427 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

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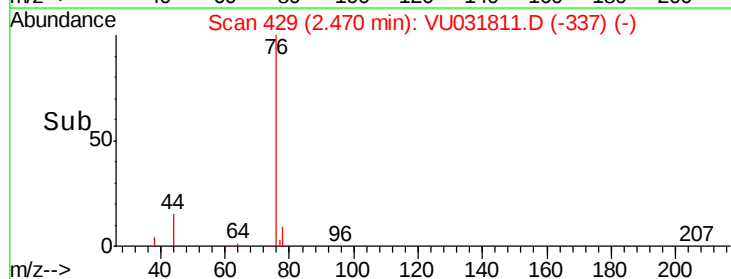
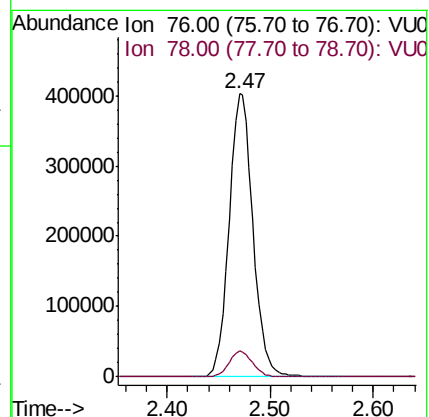
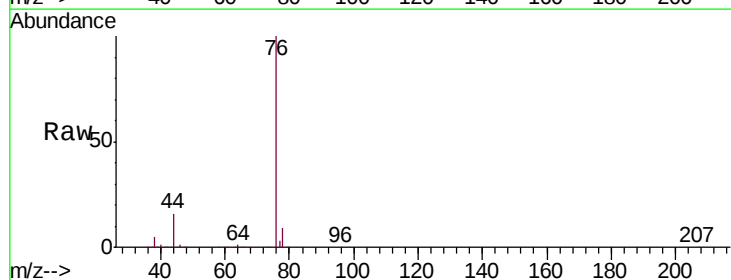
Acq: 07 May 2019 17:48

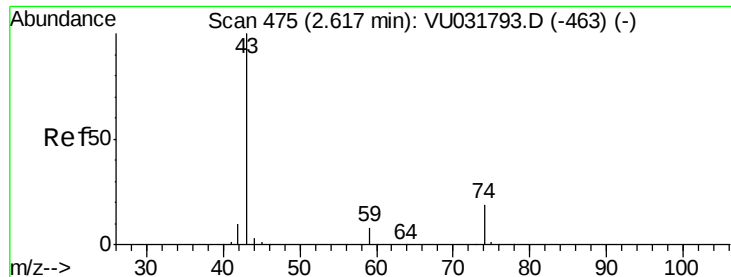
Tgt Ion: 76 Resp: 647712

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7





#15

Methyl Acetate

Concen: 52.769 ug/L

RT: 2.62 min Scan# 475

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampled :

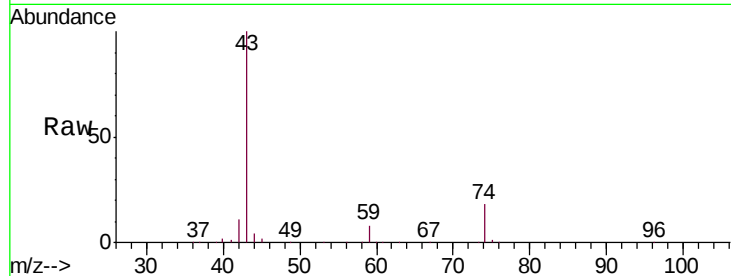
VSTD05038

Tgt Ion: 43 Resp: 444022

Ion Ratio Lower Upper

43 100

74 17.6 15.7 23.5



Abundance Ion 43.00 (42.70 to 43.70): VU031811.D (-382) (-)

Ion 74.00 (73.70 to 74.70): VU031811.D (-382) (-)

2.62

250000

200000

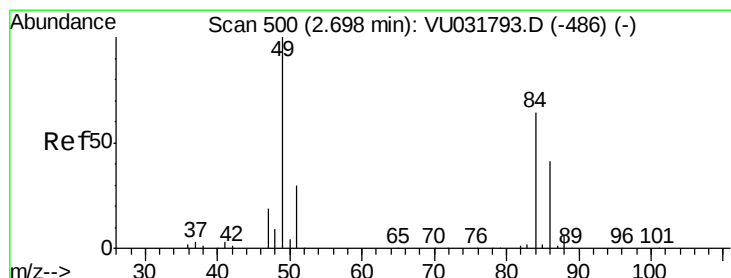
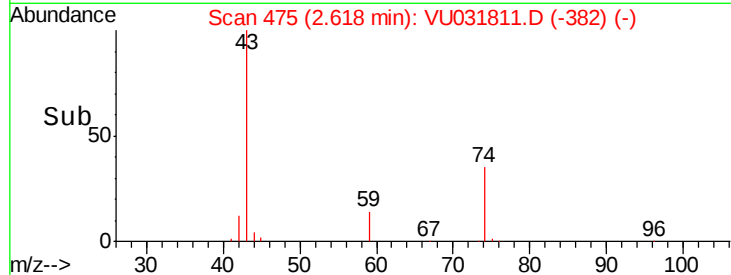
150000

100000

50000

0

Time--> 2.50 2.60 2.70 2.80



#16

Methylene chloride

Concen: 45.398 ug/L

RT: 2.69 min Scan# 499

Delta R.T. -0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

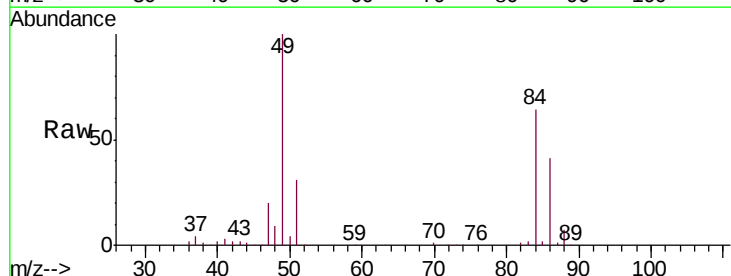
Tgt Ion: 84 Resp: 272138

Ion Ratio Lower Upper

84 100

86 64.7 44.7 83.1

49 156.3 96.5 179.3



Abundance Ion 84.00 (83.70 to 84.70): VU031811.D (-407) (-)

Ion 86.00 (85.70 to 86.70): VU031811.D (-407) (-)

Ion 49.00 (48.70 to 49.70): VU031811.D (-407) (-)

2.69

300000

250000

200000

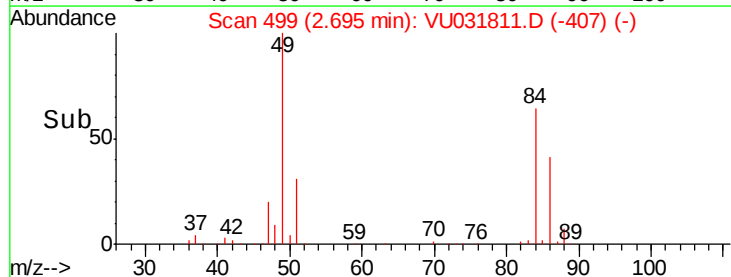
150000

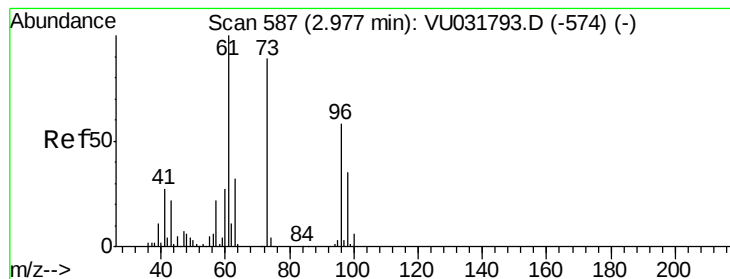
100000

50000

0

Time--> 2.60 2.65 2.70 2.75 2.80





#17

trans-1,2-Dichloroethene

Concen: 43.438 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

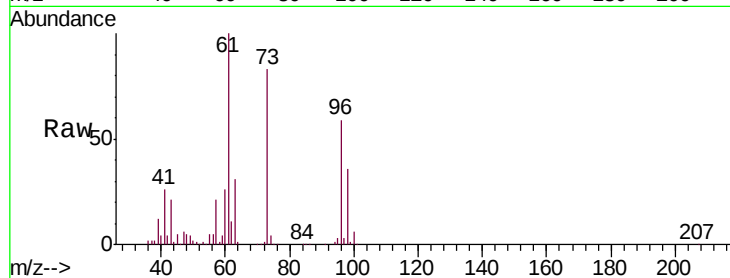
Tgt Ion: 96 Resp: 229908

Ion Ratio Lower Upper

96 100

61 168.4 114.5 212.7

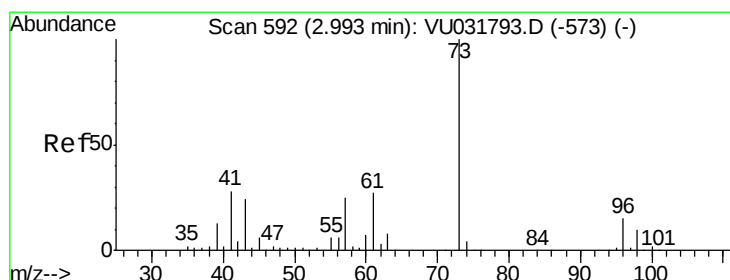
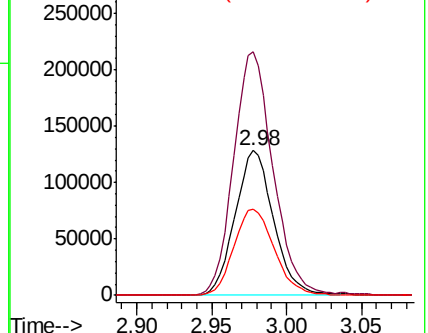
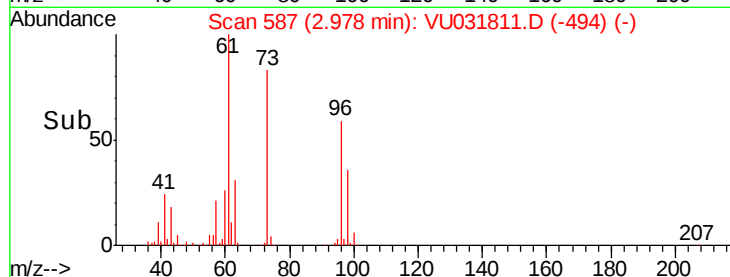
98 60.0 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU031811.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU031811.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU031811.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 51.529 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

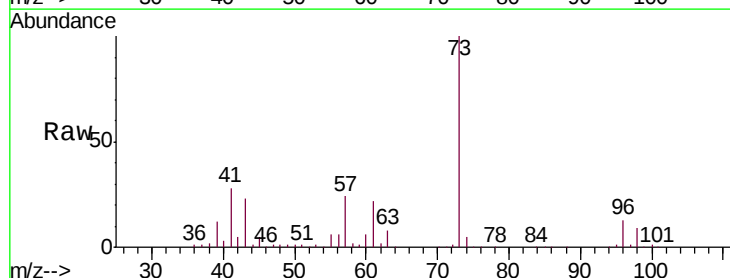
Tgt Ion: 73 Resp: 868922

Ion Ratio Lower Upper

73 100

43 23.6 17.0 25.4

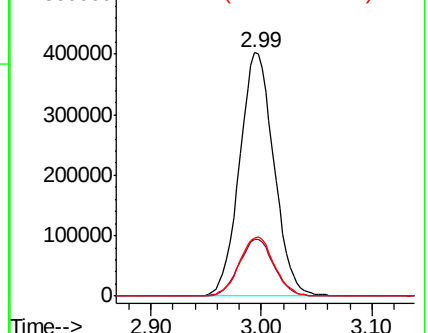
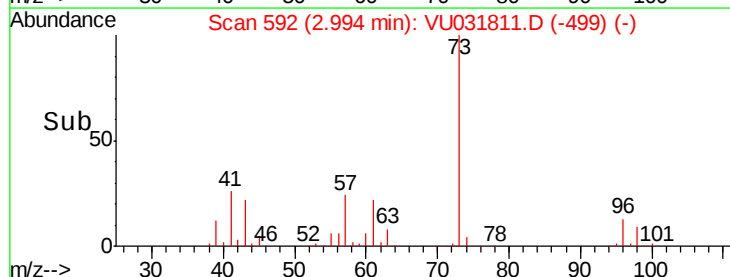
57 24.7 19.5 29.3

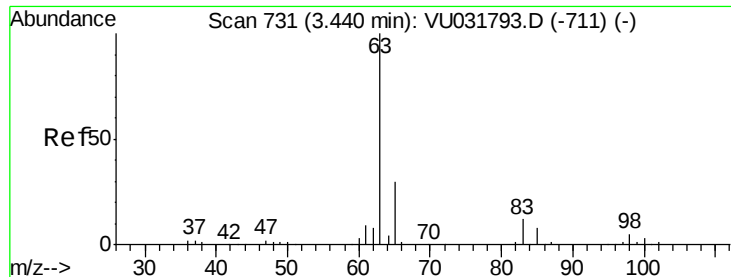


Abundance Ion 73.00 (72.70 to 73.70): VU031811.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU031811.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU031811.D (-499) (-)

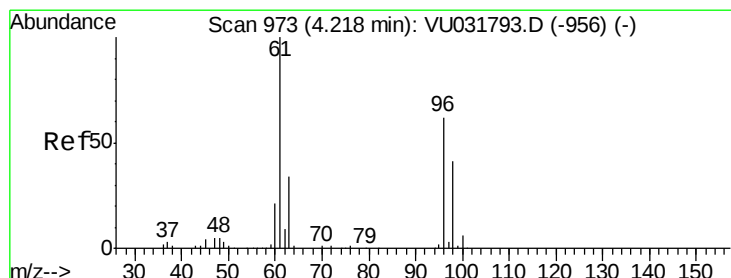
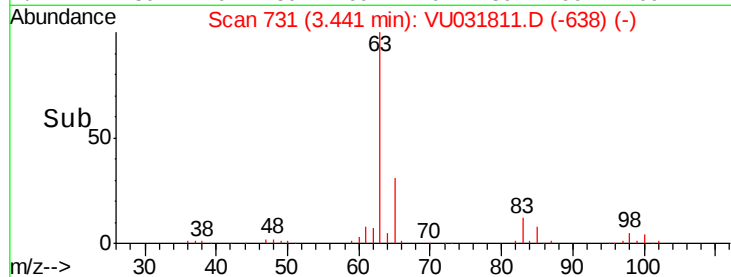
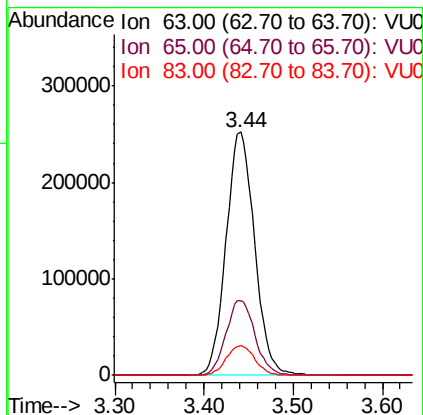
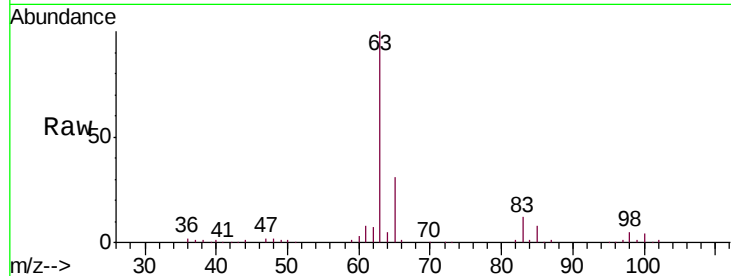




#19
 1,1-Dichloroethane
 Concen: 50.098 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

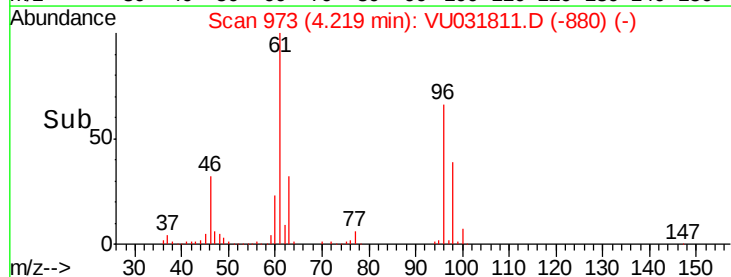
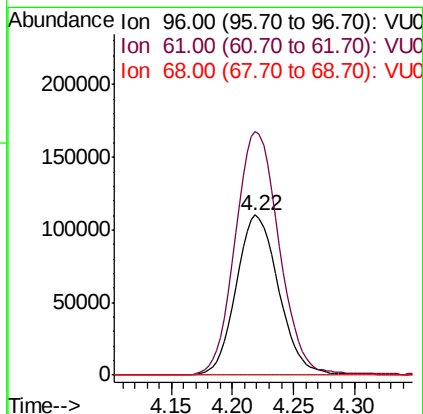
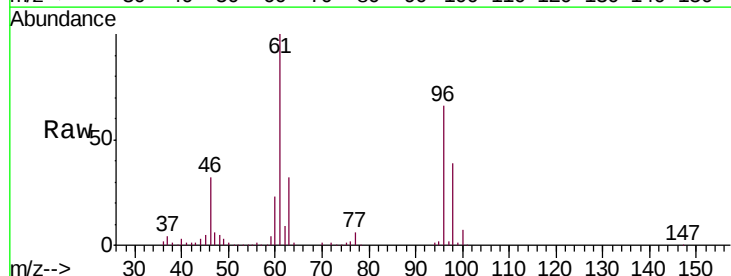
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

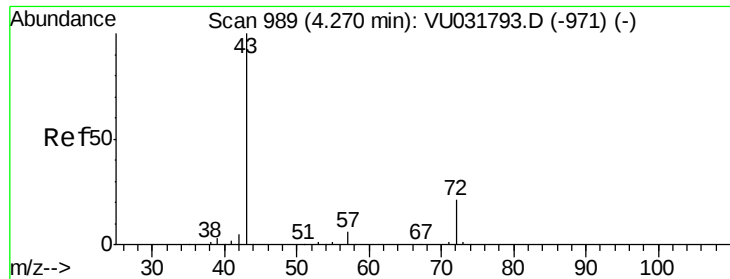
Tgt Ion: 63 Resp: 558432
 Ion Ratio Lower Upper
 63 100
 65 30.9 22.0 40.8
 83 12.3 8.8 16.4



#20
 cis-1,2-Dichloroethene
 Concen: 46.758 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

Tgt Ion: 96 Resp: 265471
 Ion Ratio Lower Upper
 96 100
 61 152.2 99.5 184.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 109.440 ug/L

RT: 4.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

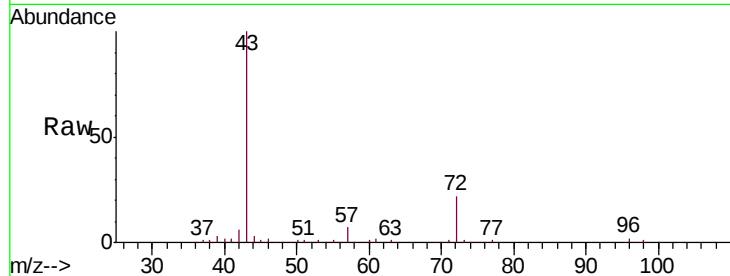
VSTD05038

Tgt Ion: 43 Resp: 674262

Ion Ratio Lower Upper

43 100

72 20.3 11.4 34.2



Abundance Ion 43.00 (42.70 to 43.70): VU031811.D (-896) (-)

Ion 72.00 (71.70 to 72.70): VU031811.D (-896) (-)

4.27

250000

200000

150000

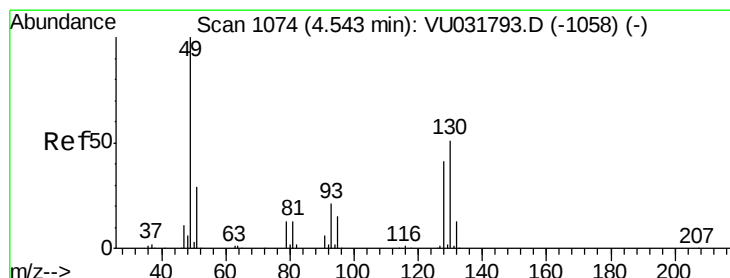
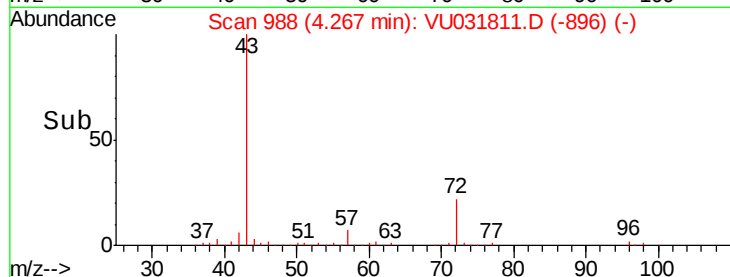
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 44.279 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Tgt Ion: 128 Resp: 122157

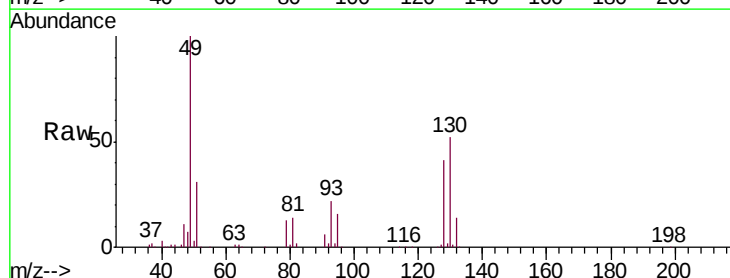
Ion Ratio Lower Upper

128 100

49 242.6 152.6 283.4

130 126.2 93.7 173.9

51 75.2 54.2 81.4



Abundance Ion 128.00 (127.70 to 128.70): VU031811.D (-981) (-)

Ion 49.00 (48.70 to 49.70): VU031811.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VU031811.D (-981) (-)

Ion 51.00 (50.70 to 51.70): VU031811.D (-981) (-)

200000

150000

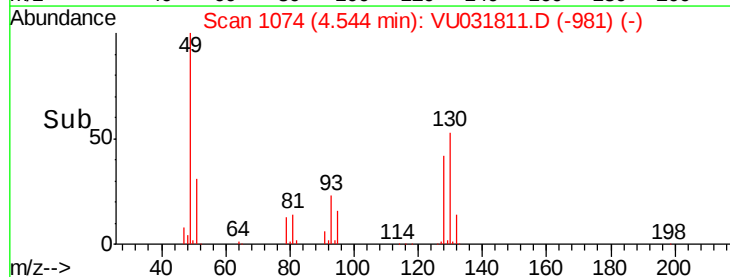
100000

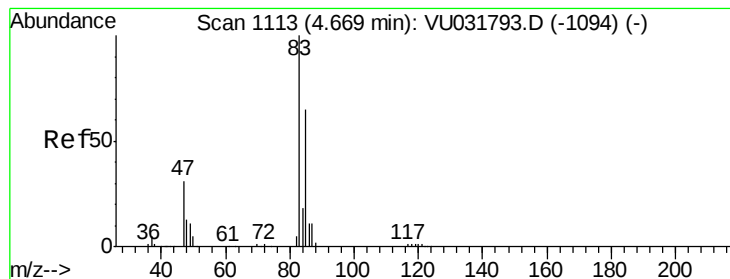
50000

0

4.50 4.60

Time-->





#25

Chloroform

Concen: 48.424 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

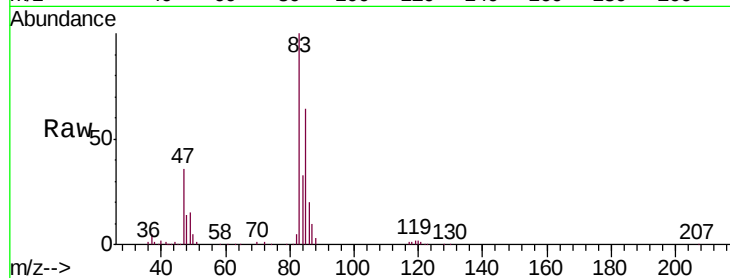
VSTD05038

Tgt Ion: 83 Resp: 516156

Ion Ratio Lower Upper

83 100

85 63.6 44.9 83.3



Abundance Ion 83.00 (82.70 to 83.70): VU031793.D (-1094) (-)

Ion 85.00 (84.70 to 85.70): VU031793.D (-1094) (-)

250000

200000

150000

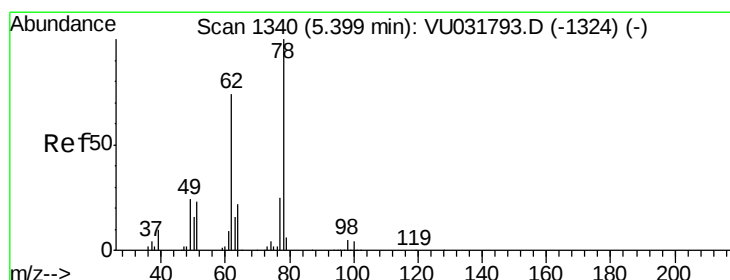
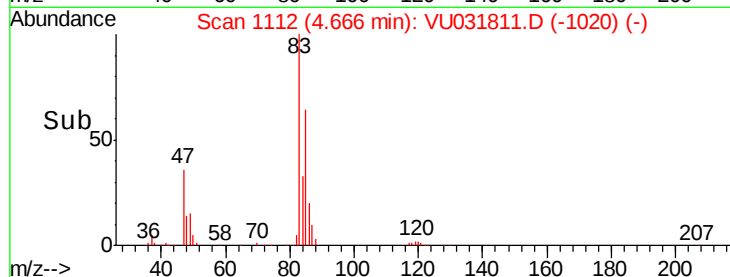
100000

50000

0

4.55 4.60 4.65 4.70 4.75

Time-->



#27

1,2-Dichloroethane

Concen: 52.485 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VU031811.D

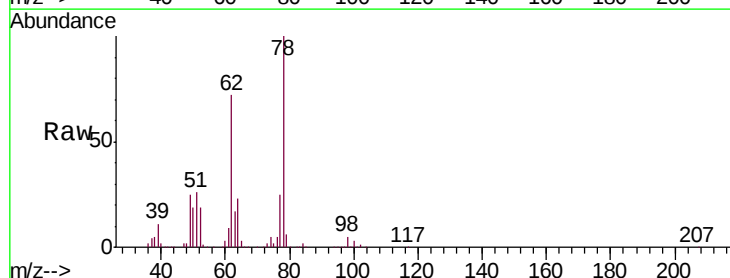
Acq: 07 May 2019 17:48

Tgt Ion: 62 Resp: 454410

Ion Ratio Lower Upper

62 100

98 7.0 7.1 10.7#



Abundance Ion 62.00 (61.70 to 62.70): VU031793.D (-1324) (-)

Ion 98.00 (97.70 to 98.70): VU031793.D (-1324) (-)

250000

200000

150000

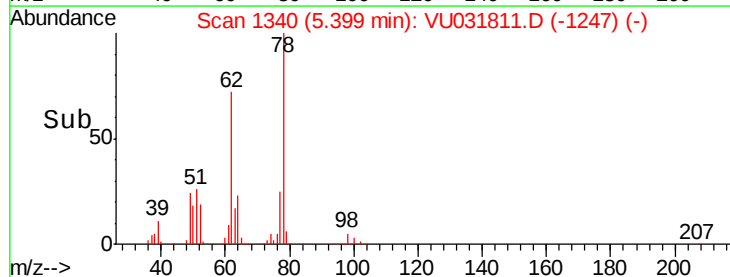
100000

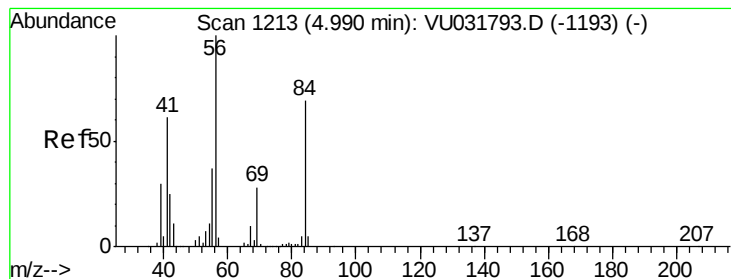
50000

0

5.30 5.40 5.50

Time-->





#29

Cyclohexane

Concen: 46.361 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

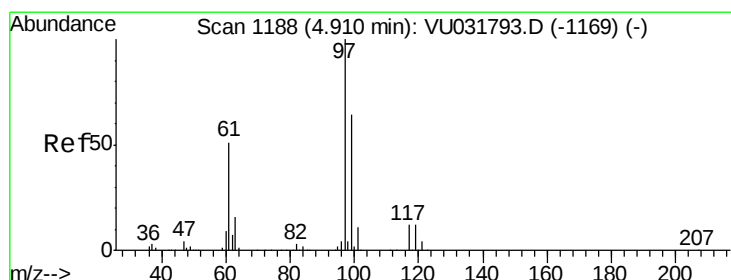
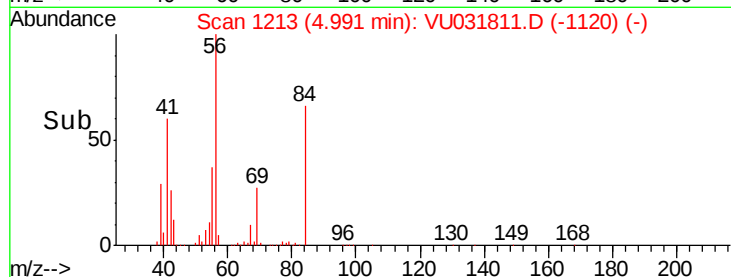
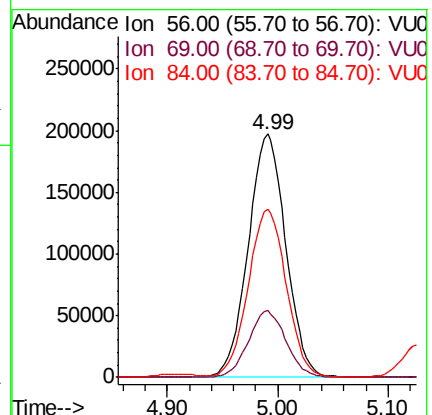
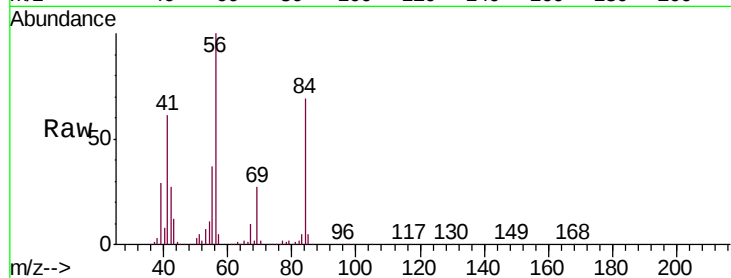
Tgt Ion: 56 Resp: 465258

Ion Ratio Lower Upper

56 100

69 27.4 22.3 33.5

84 69.8 57.5 86.3



#30

1,1,1-Trichloroethane

Concen: 47.050 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

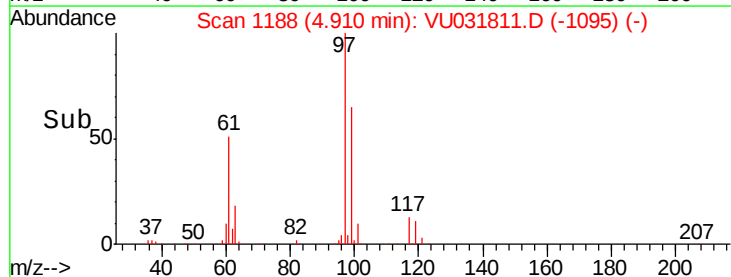
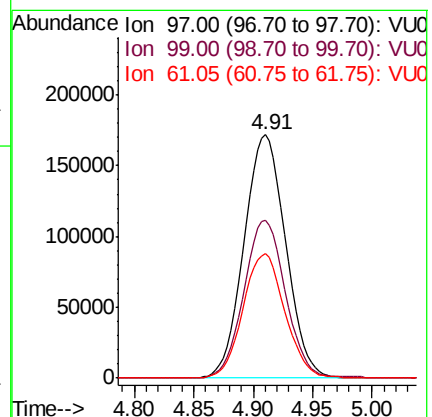
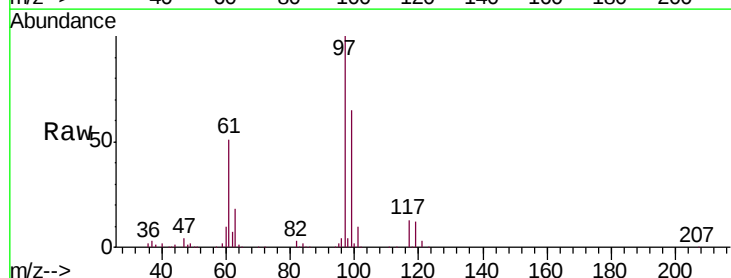
Tgt Ion: 97 Resp: 418008

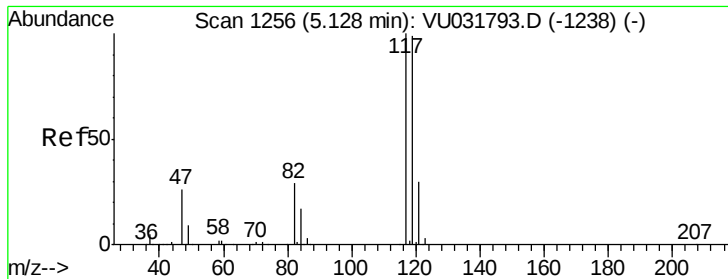
Ion Ratio Lower Upper

97 100

99 64.6 52.0 78.0

61 51.3 38.7 58.1





#31

Carbon tetrachloride

Concen: 44.883 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

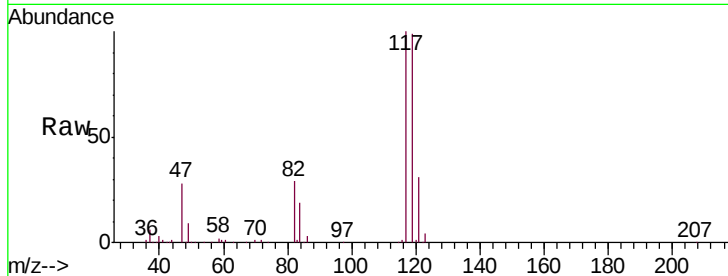
VSTD05038

Tgt Ion:117 Resp: 340821

Ion Ratio Lower Upper

117 100

119 97.9 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

150000

100000

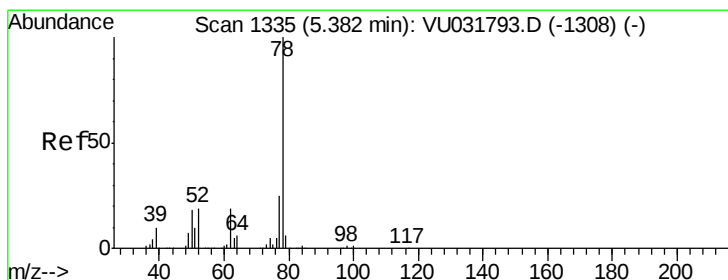
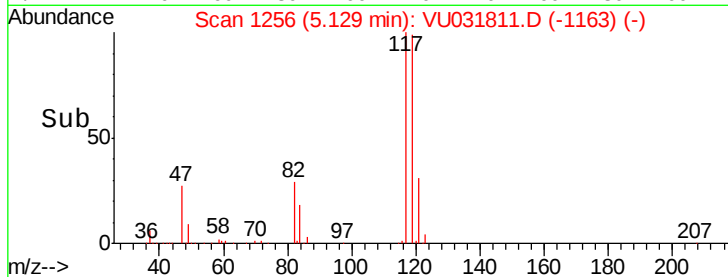
50000

0

5.13

5.10 5.20

Time-->



#33

Benzene

Concen: 46.901 ug/L

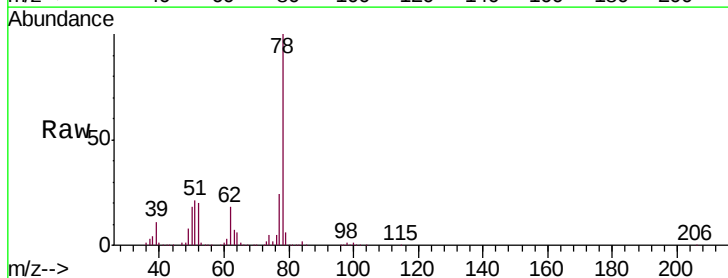
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Tgt Ion: 78 Resp: 1093394



Abundance Ion 78.00 (77.70 to 78.70): VU0

600000

500000

400000

300000

200000

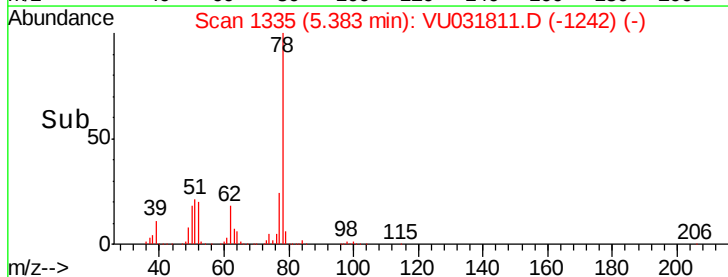
100000

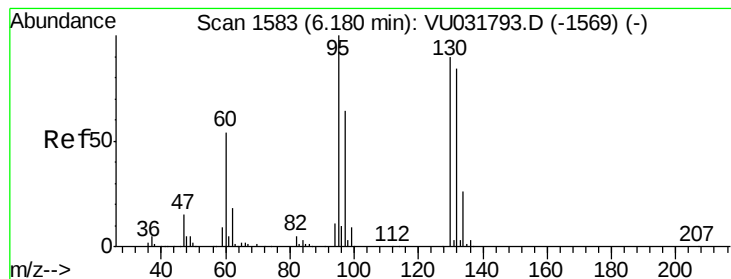
0

5.38

5.30 5.40 5.50

Time-->





#34

Trichloroethene

Concen: 47.486 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

Tgt Ion: 95 Resp: 268347

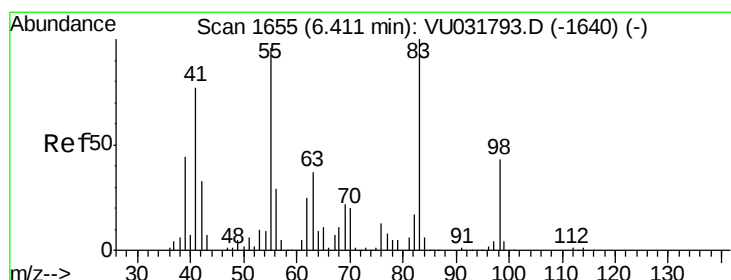
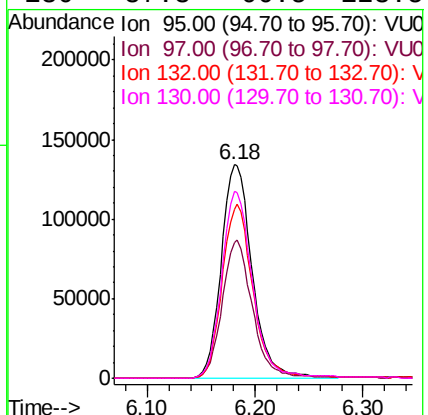
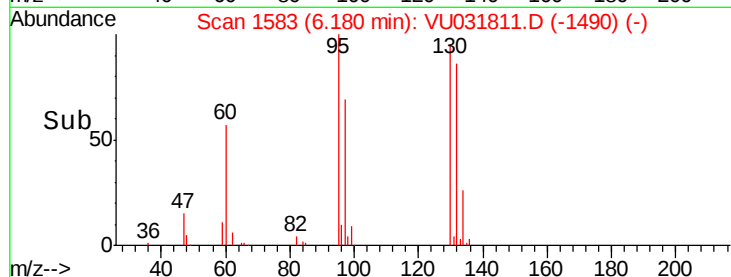
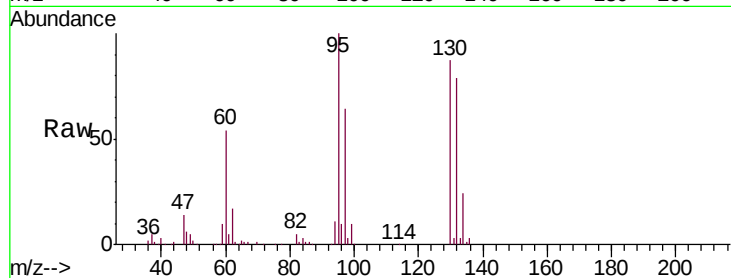
Ion Ratio Lower Upper

95 100

97 63.7 44.8 83.2

132 79.4 63.1 117.1

130 87.3 66.5 123.5



#35

Methylcyclohexane

Concen: 45.368 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

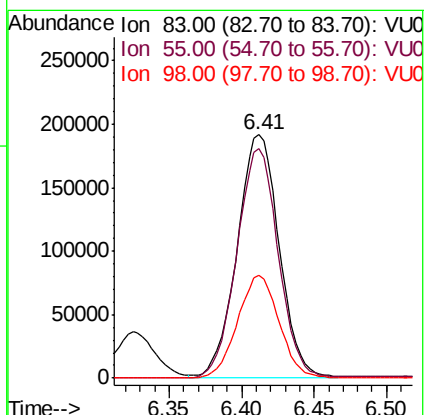
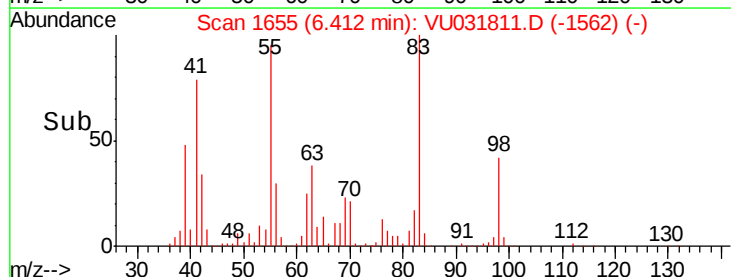
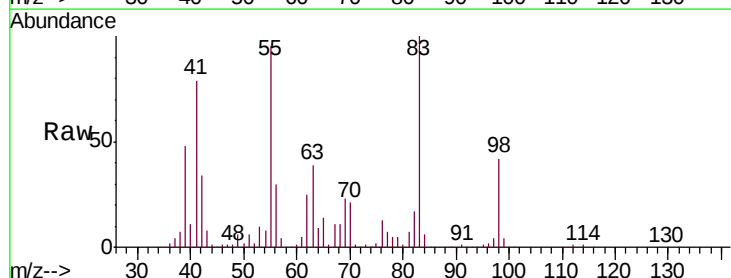
Tgt Ion: 83 Resp: 384226

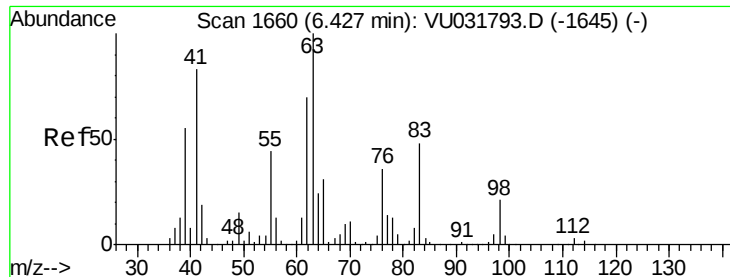
Ion Ratio Lower Upper

83 100

55 94.0 73.0 109.4

98 42.1 35.3 52.9

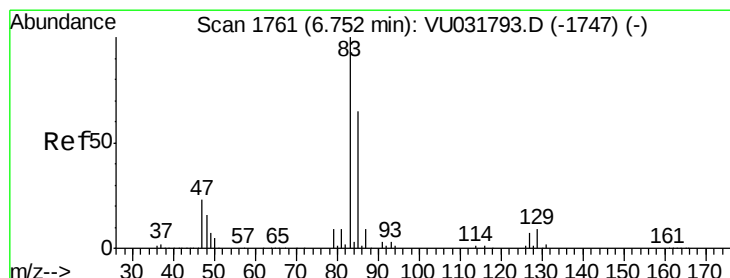
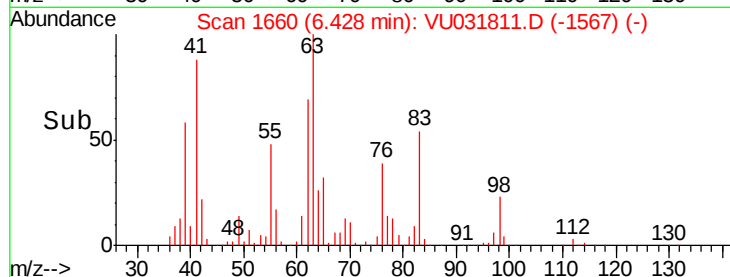
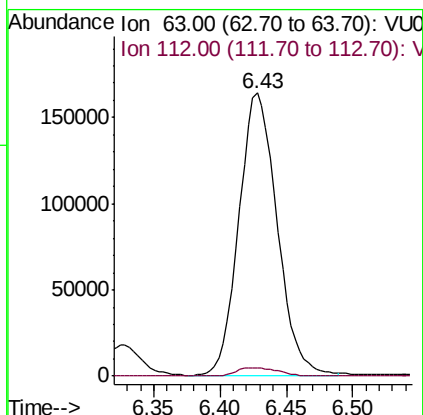
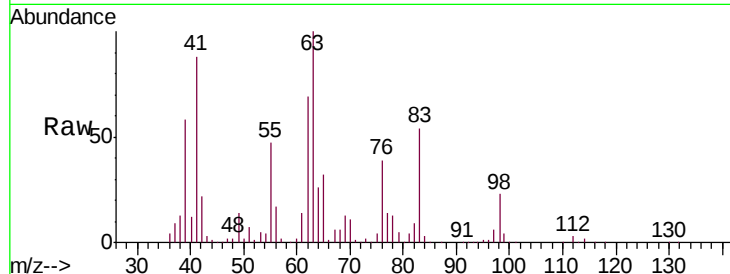




#37
 1,2-Dichloropropane
 Concen: 49.631 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

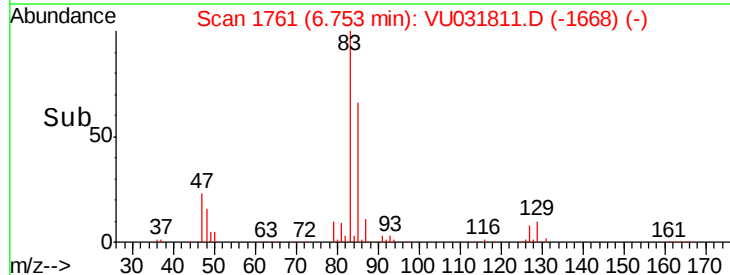
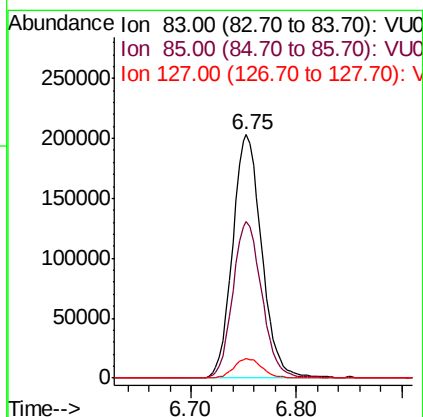
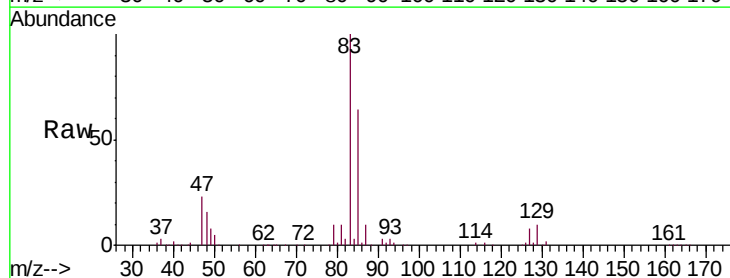
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

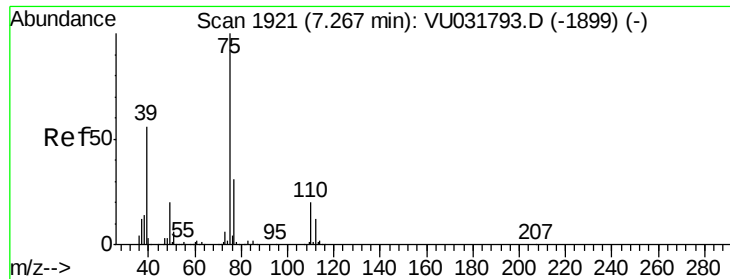
Tgt Ion: 63 Resp: 328473
 Ion Ratio Lower Upper
 63 100
 112 3.3 2.7 4.1



#38
 Bromodichloromethane
 Concen: 48.187 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

Tgt Ion: 83 Resp: 386681
 Ion Ratio Lower Upper
 83 100
 85 64.5 43.7 81.1
 127 8.0 6.7 10.1



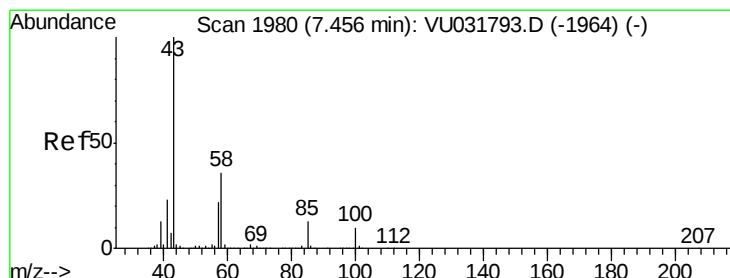
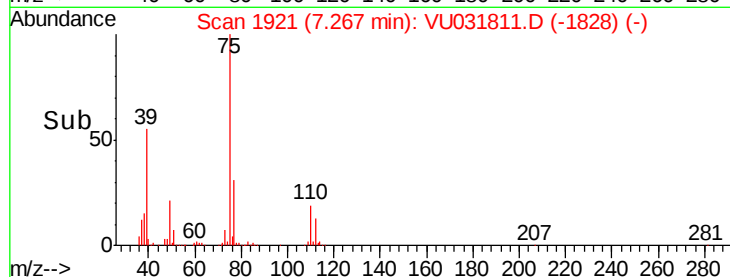
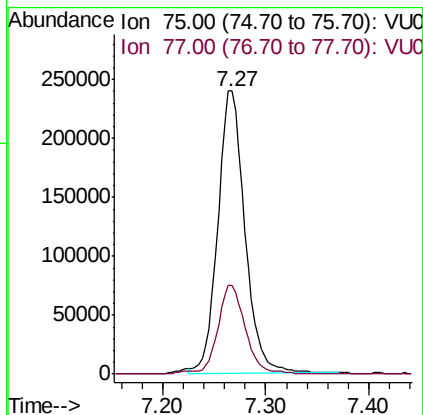
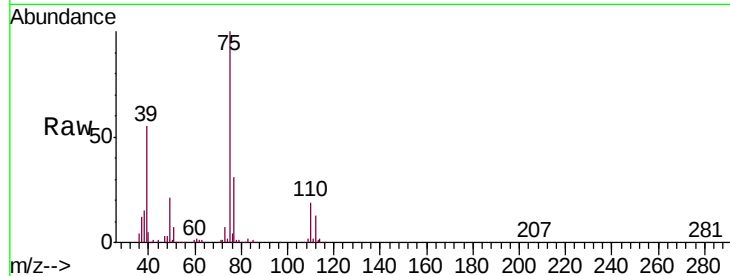


#39

cis-1,3-Dichloropropene
 Concen: 50.233 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

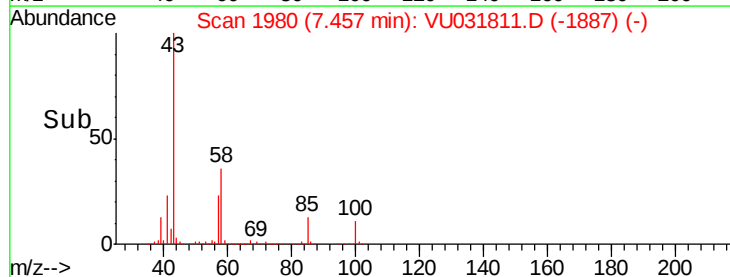
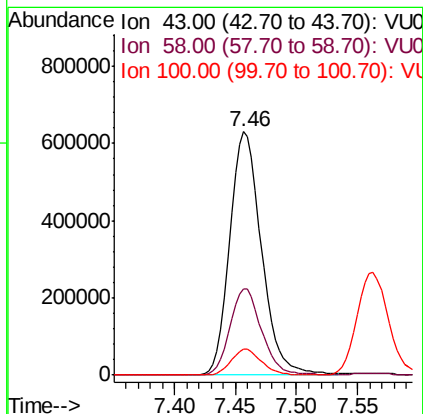
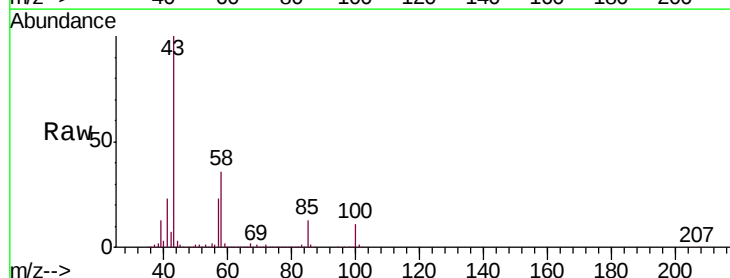
Tgt Ion: 75 Resp: 439304
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.1 41.1

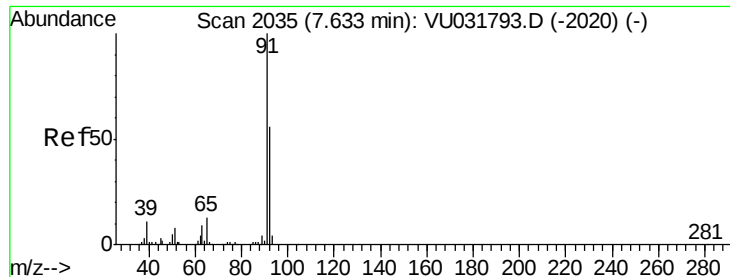


#40

4-Methyl-2-pentanone
 Concen: 112.362 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

Tgt Ion: 43 Resp: 1144128
 Ion Ratio Lower Upper
 43 100
 58 35.6 30.1 45.1
 100 10.2 9.6 14.4





#42

Toluene

Concen: 46.739 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

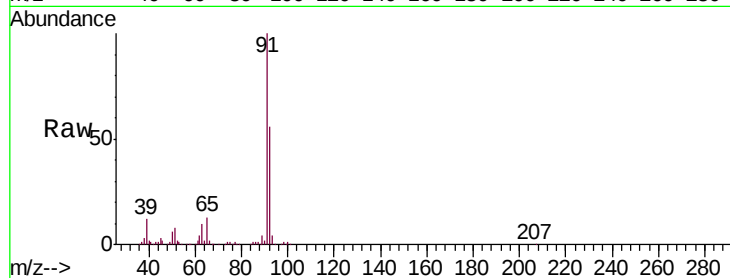
VSTD05038

Tgt Ion: 91 Resp: 1085411

Ion Ratio Lower Upper

91 100

92 55.7 39.0 72.4



Abundance Ion 91.00 (90.70 to 91.70): VU031811.D (-1942) (-)

Ion 92.00 (91.70 to 92.70): VU031811.D (-1942) (-)

7.63

600000

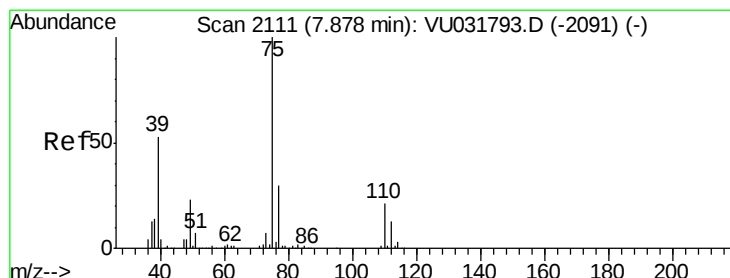
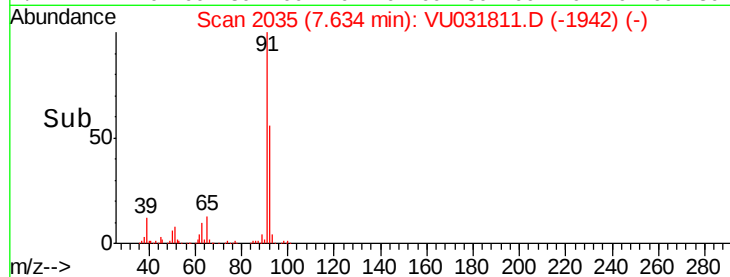
400000

200000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#44

trans-1,3-Dichloropropene

Concen: 49.339 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031811.D

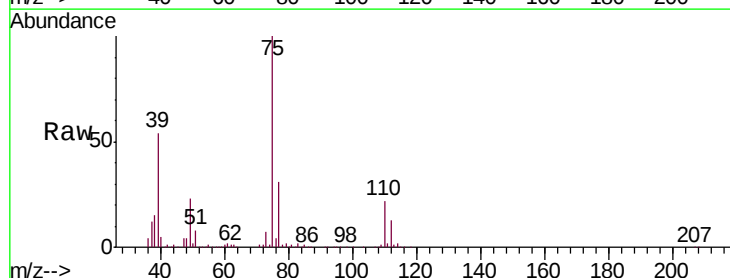
Acq: 07 May 2019 17:48

Tgt Ion: 75 Resp: 391359

Ion Ratio Lower Upper

75 100

77 30.6 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU031811.D (-2018) (-)

Ion 77.00 (76.70 to 77.70): VU031811.D (-2018) (-)

7.88

250000

200000

150000

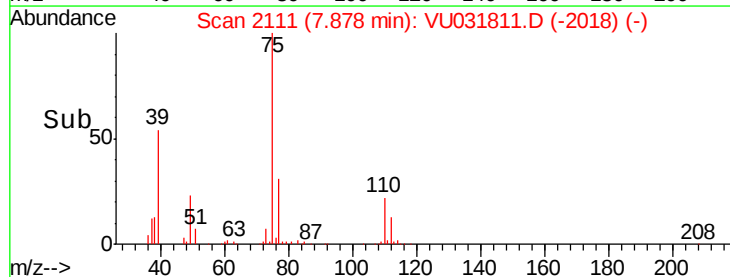
100000

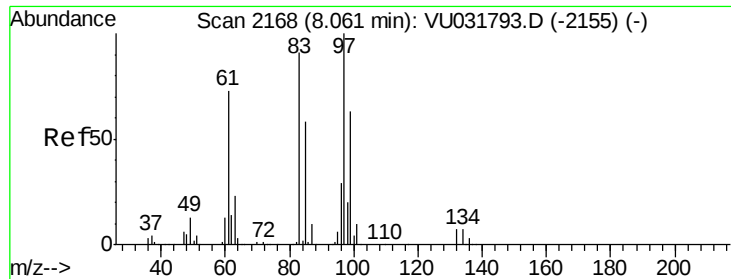
50000

0

7.80 7.90 8.00

Time-->

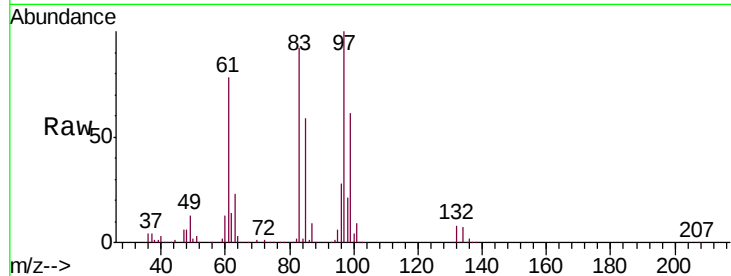




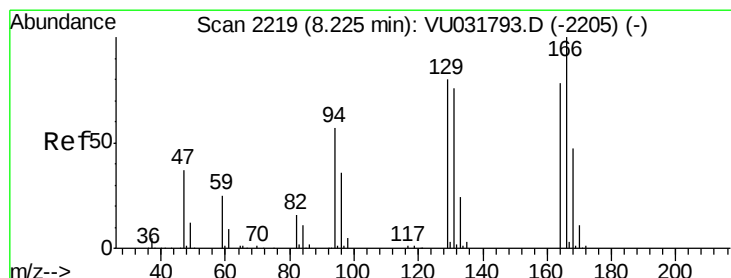
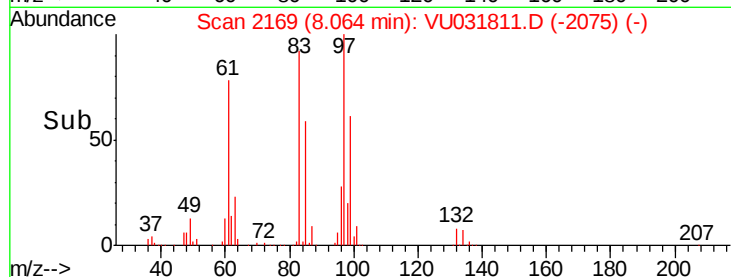
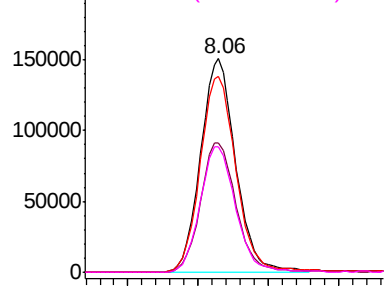
#45
 1,1,2-Trichloroethane
 Concen: 48.004 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

Tgt Ion:	97	Resp:	261914
Ion	Ratio	Lower	Upper
97	100		
99	60.7	43.0	80.0
83	91.9	63.6	118.2
85	58.6	40.5	75.3

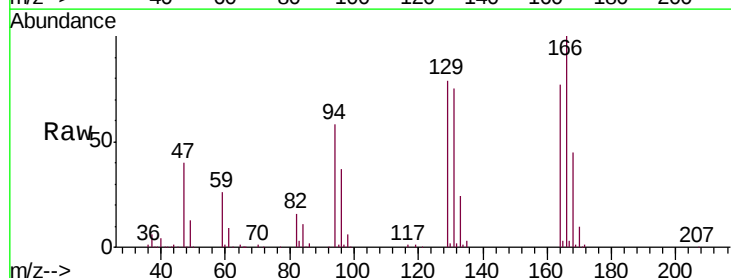


Abundance Ion 97.00 (96.70 to 97.70): VU031793.D (-2155) (-)
 Ion 99.00 (98.70 to 99.70): VU031793.D (-2155) (-)
 Ion 83.00 (82.70 to 83.70): VU031793.D (-2155) (-)
 Ion 85.00 (84.70 to 85.70): VU031793.D (-2155) (-)

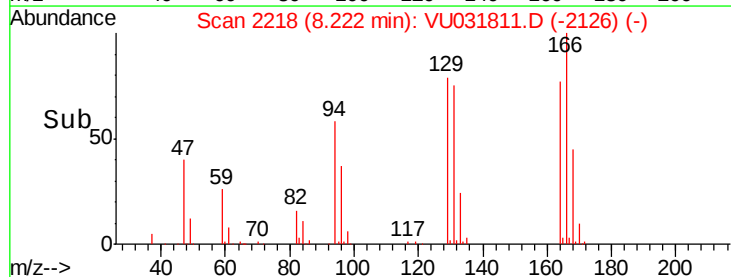
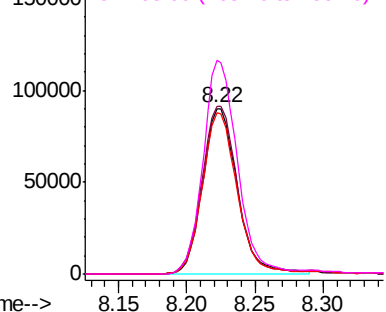


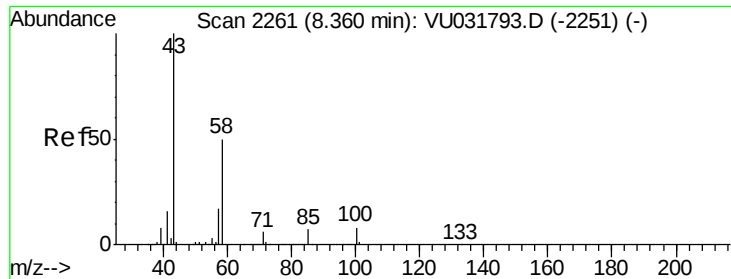
#46
 Tetrachloroethene
 Concen: 41.464 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

Tgt Ion:	164	Resp:	159742
Ion	Ratio	Lower	Upper
164	100		
129	101.5	71.5	132.9
131	97.4	69.0	128.2
166	129.2	93.7	173.9



Abundance Ion 164.00 (163.70 to 164.70): VU031793.D (-2205) (-)
 Ion 129.00 (128.70 to 129.70): VU031793.D (-2205) (-)
 Ion 131.00 (130.70 to 131.70): VU031793.D (-2205) (-)
 Ion 166.00 (165.70 to 166.70): VU031793.D (-2205) (-)

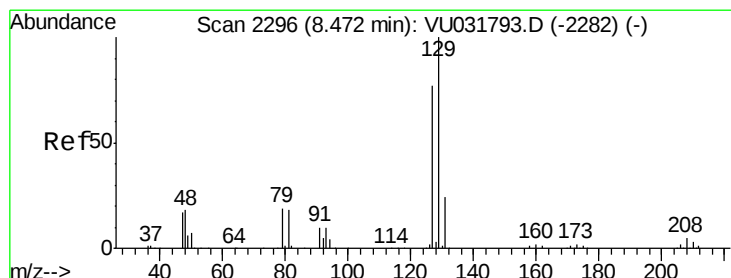
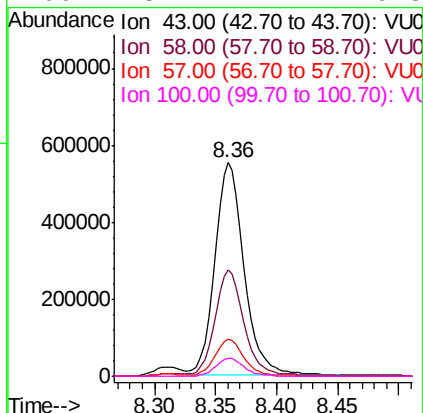
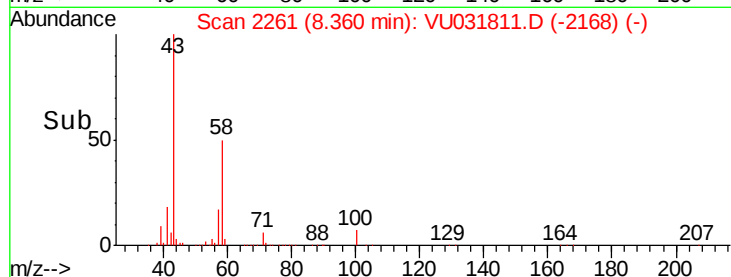
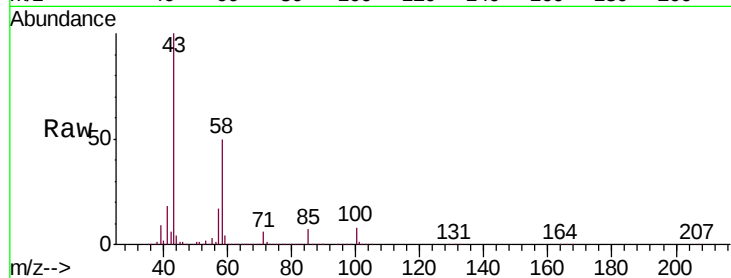




#48
2-Hexanone
Concen: 112.687 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU031811.D
Acq: 07 May 2019 17:48

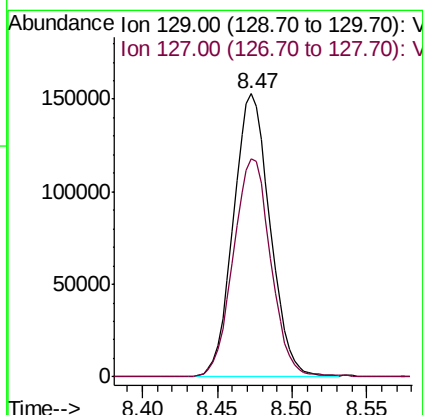
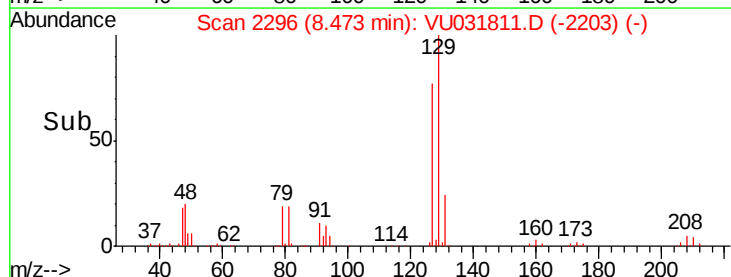
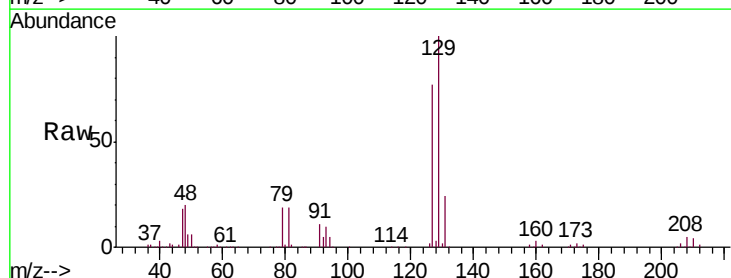
Instrument :
MSVOA_U
ClientSampleId :
VSTD05038

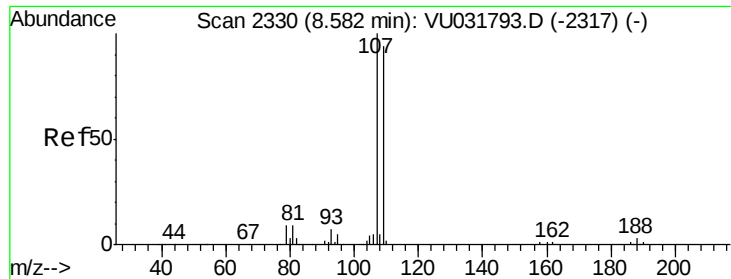
Tgt Ion:	43	Resp:	928042
Ion	Ratio	Lower	Upper
43	100		
58	49.8	42.1	63.1
57	17.2	14.6	22.0
100	8.2	7.2	10.8



#49
Dibromochloromethane
Concen: 45.976 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031811.D
Acq: 07 May 2019 17:48

Tgt Ion:	129	Resp:	261009
Ion	Ratio	Lower	Upper
129	100		
127	77.1	54.0	100.2

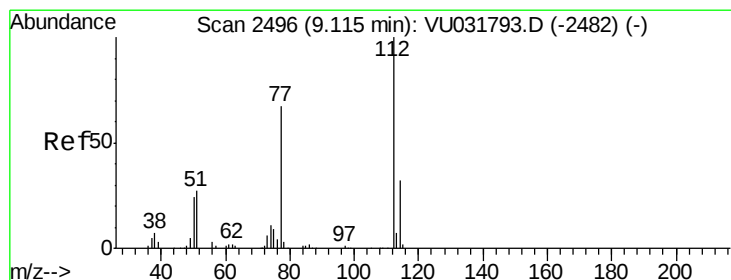
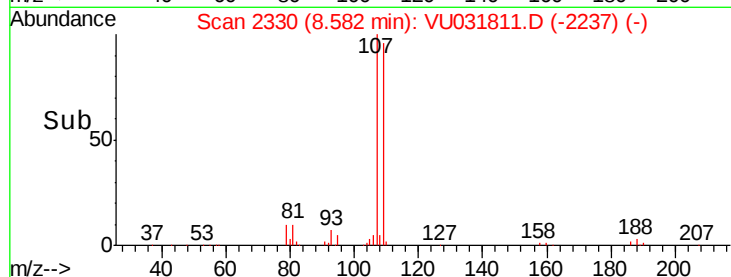
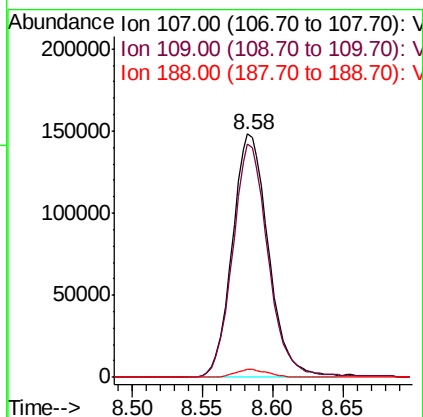
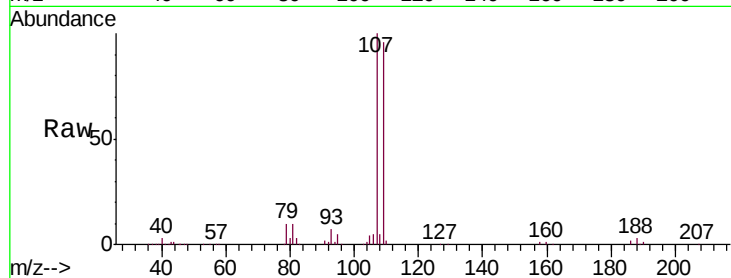




#50
 1,2-Dibromoethane
 Concen: 46.253 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

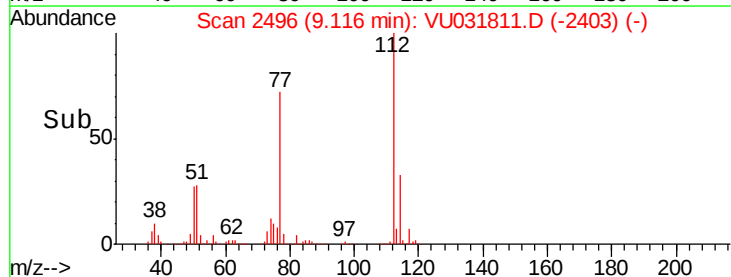
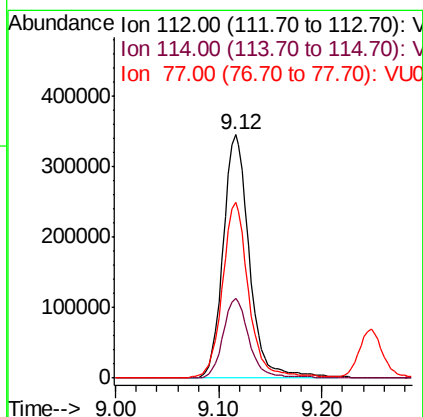
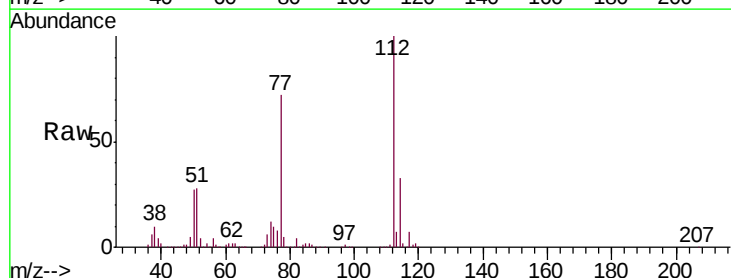
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

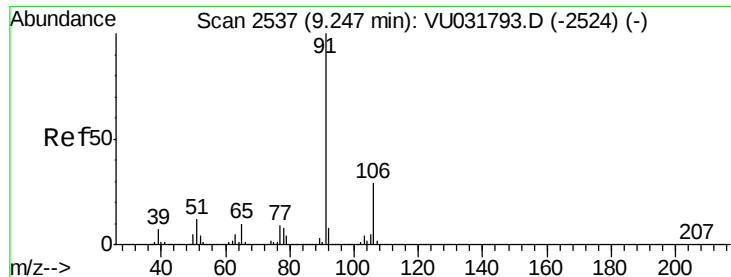
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.9	64.9	120.5
188	3.1	2.4	3.6



#51
 Chlorobenzene
 Concen: 44.751 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.6	23.3	43.3
77	72.3	53.0	79.4





#52

Ethylbenzene

Concen: 47.336 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

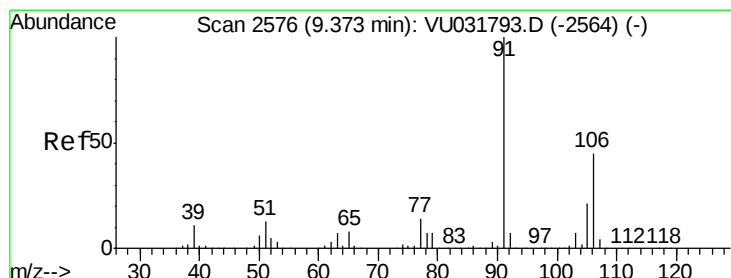
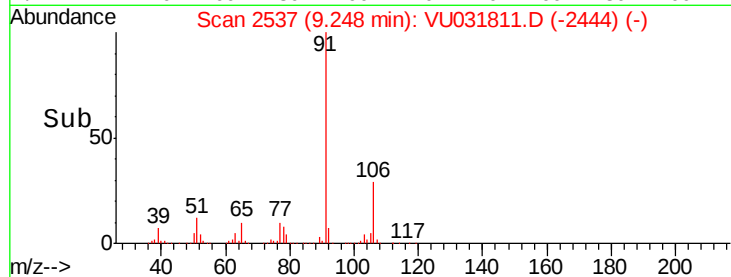
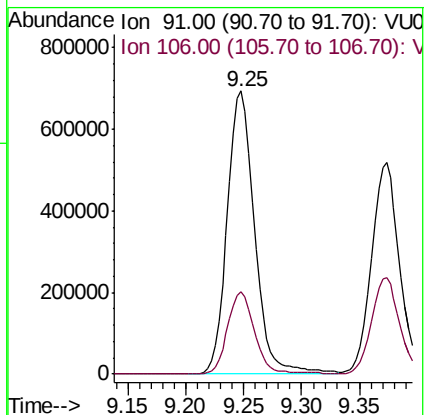
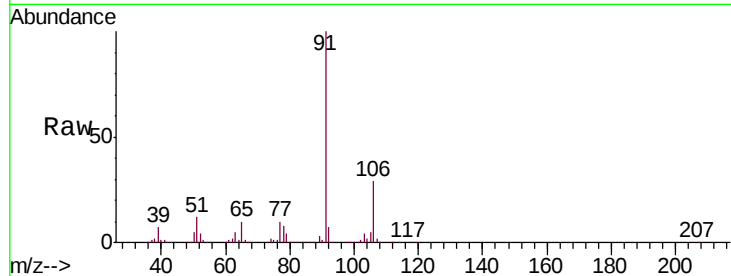
VSTD05038

Tgt Ion: 91 Resp: 1140272

Ion Ratio Lower Upper

91 100

106 28.9 20.4 37.8



#53

m,p-Xylene

Concen: 47.966 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031811.D

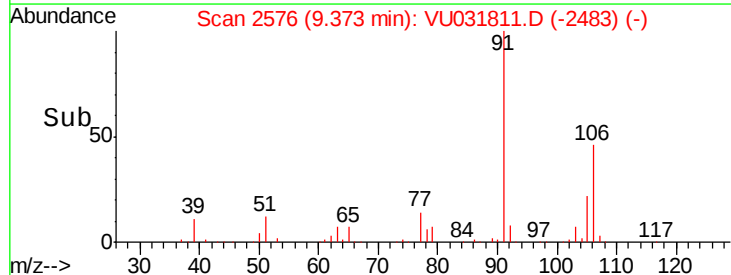
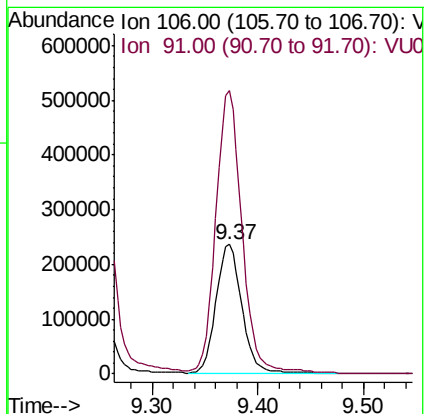
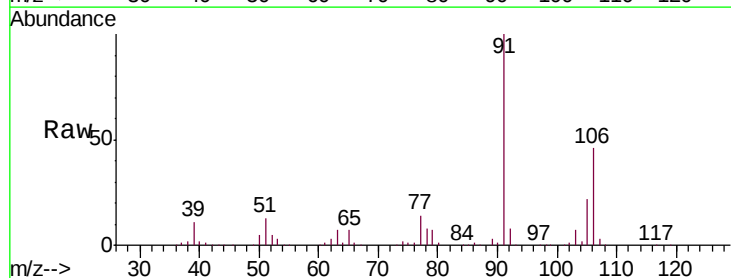
Acq: 07 May 2019 17:48

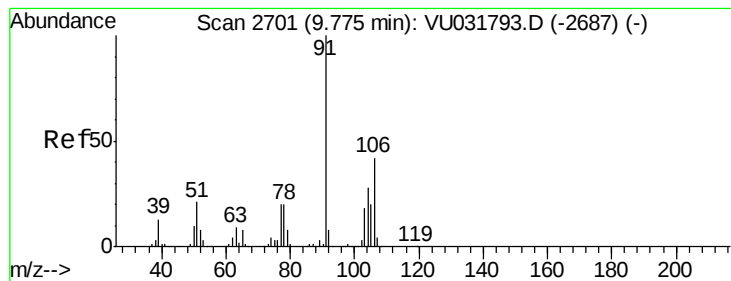
Tgt Ion: 106 Resp: 402579

Ion Ratio Lower Upper

106 100

91 218.8 152.2 282.6





#54

o-xylene

Concen: 48.372 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

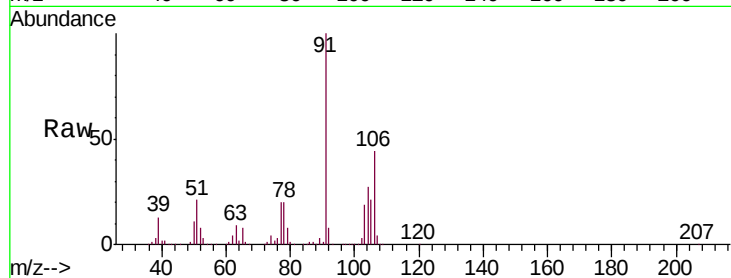
VSTD05038

Tgt Ion:106 Resp: 402490

Ion Ratio Lower Upper

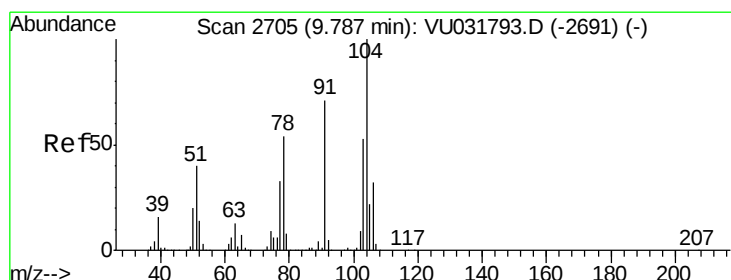
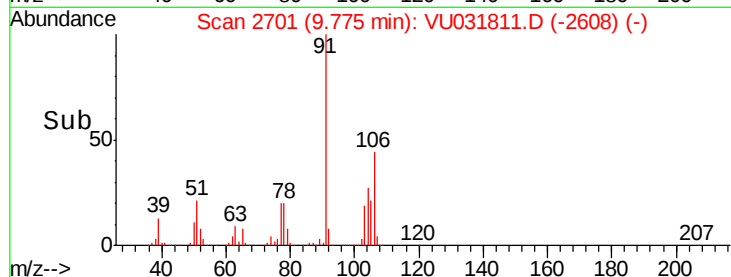
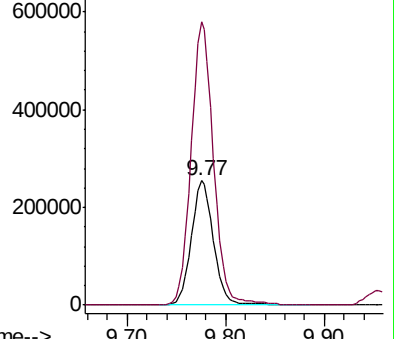
106 100

91 227.3 163.2 303.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 48.809 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU031811.D

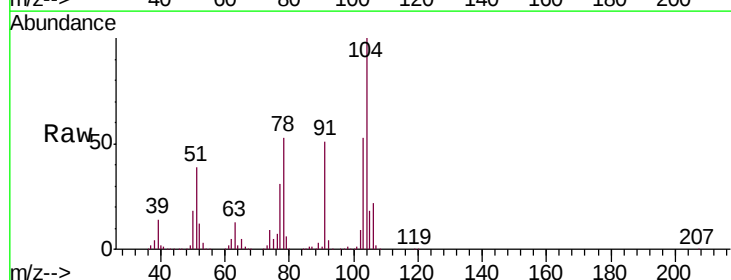
Acq: 07 May 2019 17:48

Tgt Ion:104 Resp: 693862

Ion Ratio Lower Upper

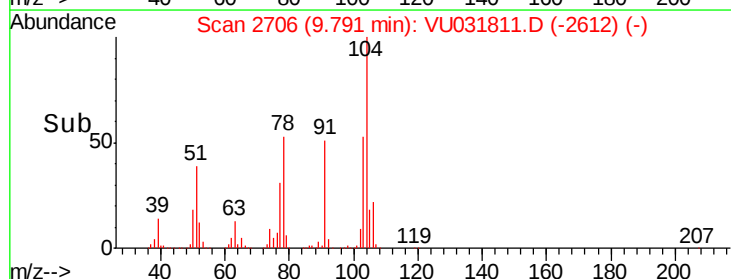
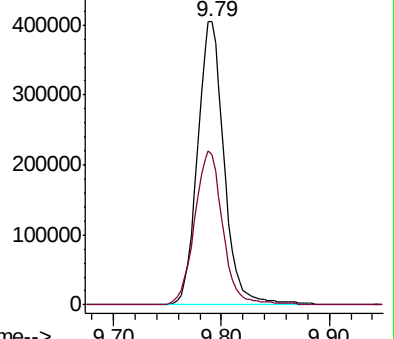
104 100

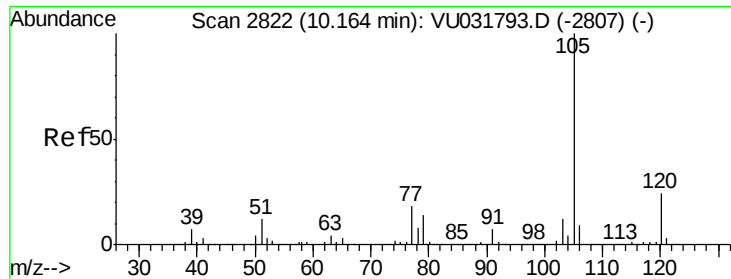
78 52.9 35.4 65.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 48.094 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

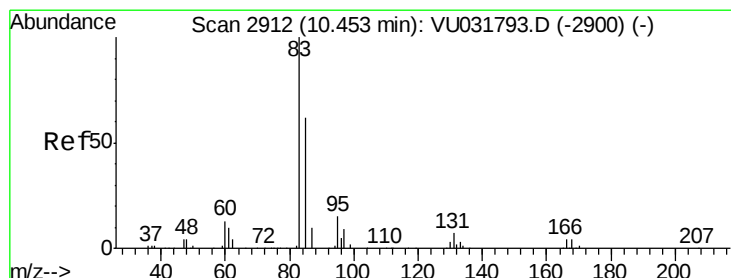
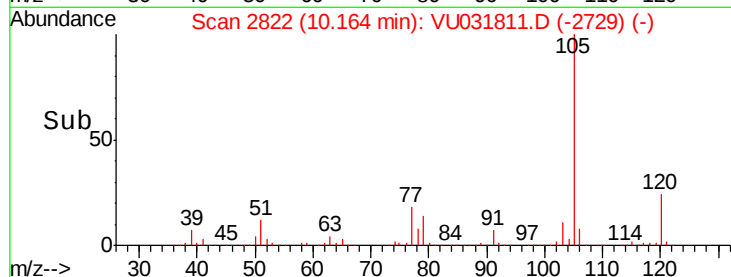
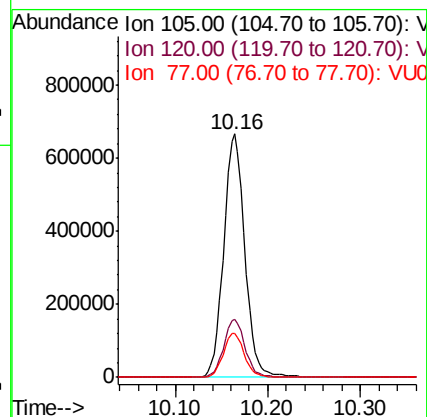
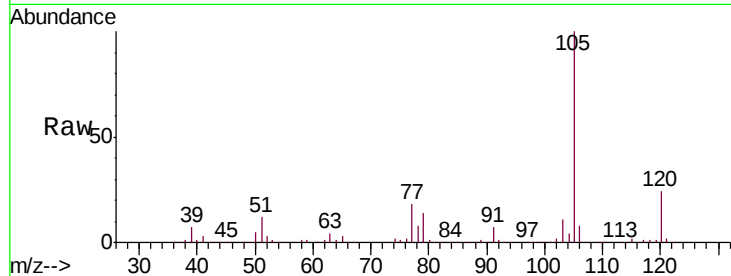
Tgt Ion: 105 Resp: 1052294

Ion Ratio Lower Upper

105 100

120 24.1 20.1 30.1

77 18.0 13.8 20.6



#58

1,1,2,2-Tetrachloroethane

Concen: 48.029 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

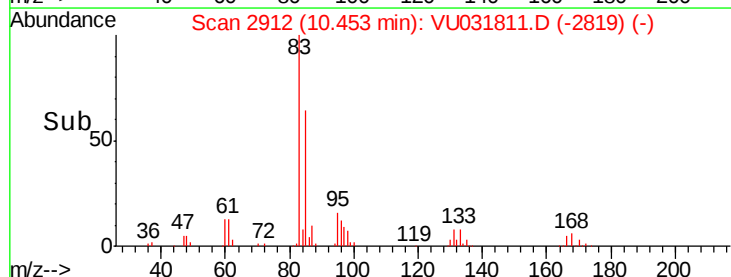
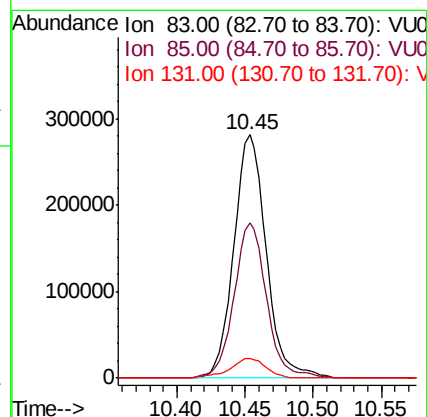
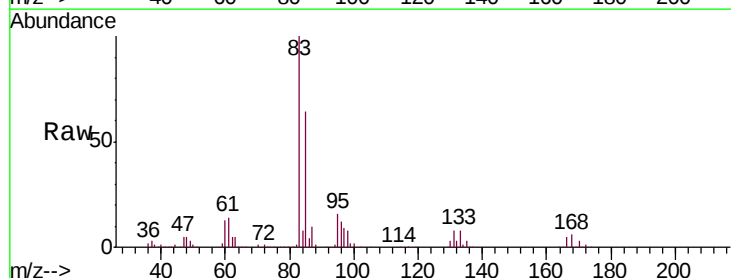
Tgt Ion: 83 Resp: 465007

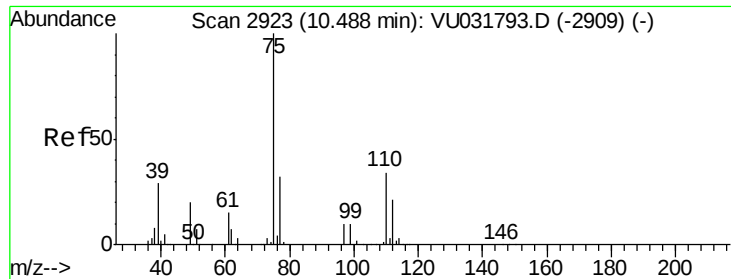
Ion Ratio Lower Upper

83 100

85 63.9 46.0 85.4

131 8.1 7.3 10.9

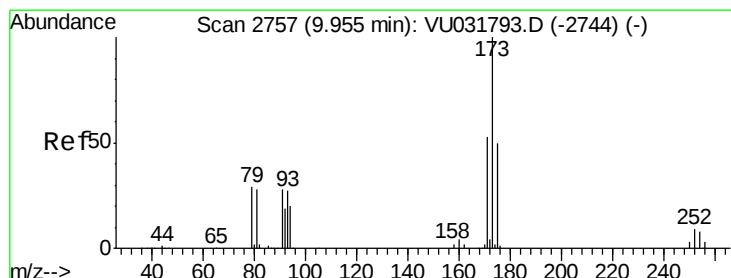
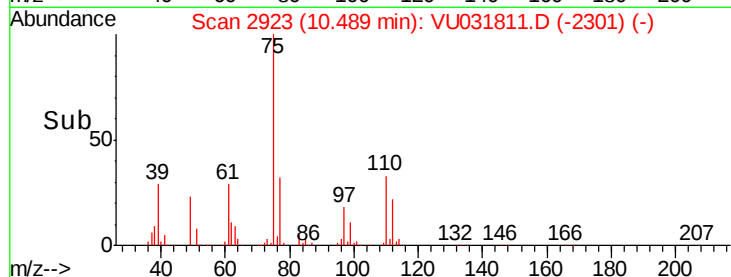
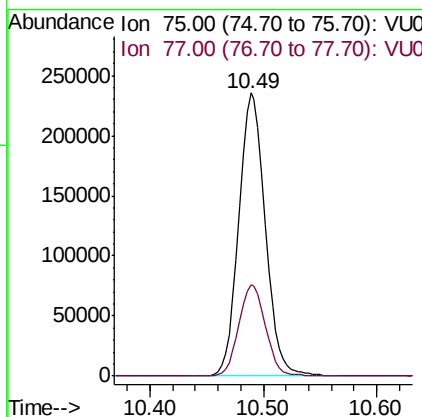
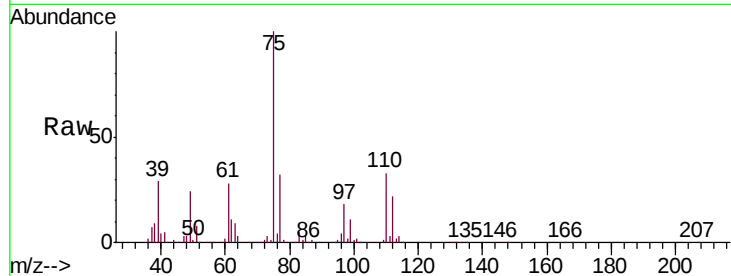




#59
 1,2,3-Trichloropropane
 Concen: 49.089 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

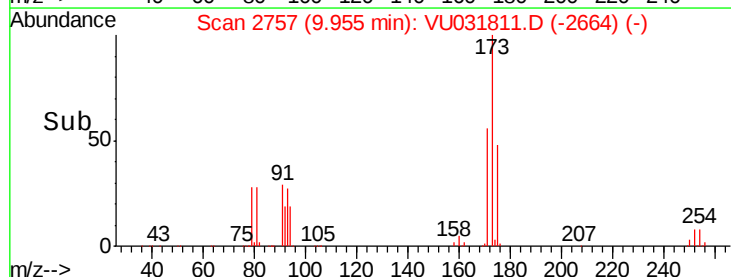
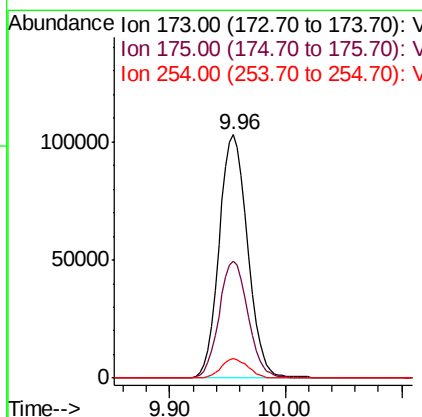
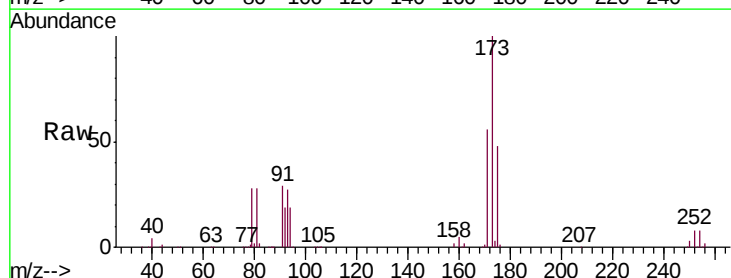
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

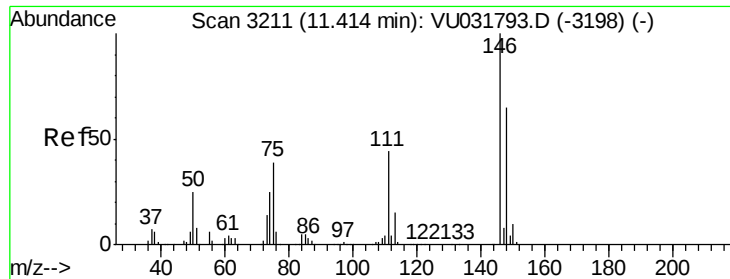
Tgt Ion: 75 Resp: 385193
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.9 38.9



#61
 Bromoform
 Concen: 44.666 ug/L
 RT: 9.96 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

Tgt Ion: 173 Resp: 175580
 Ion Ratio Lower Upper
 173 100
 175 48.7 38.3 57.5
 254 7.7 6.6 9.8





#62

1,3-Dichlorobenzene

Concen: 46.315 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

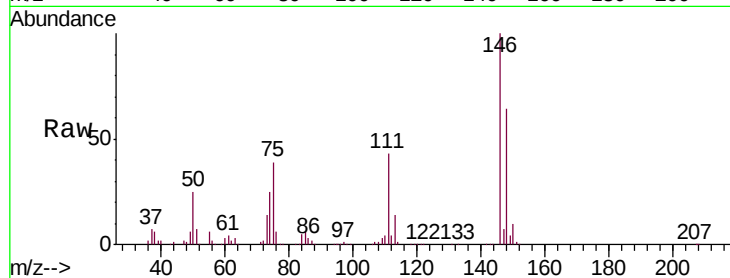
Tgt Ion:146 Resp: 406553

Ion Ratio Lower Upper

146 100

111 43.1 29.8 55.4

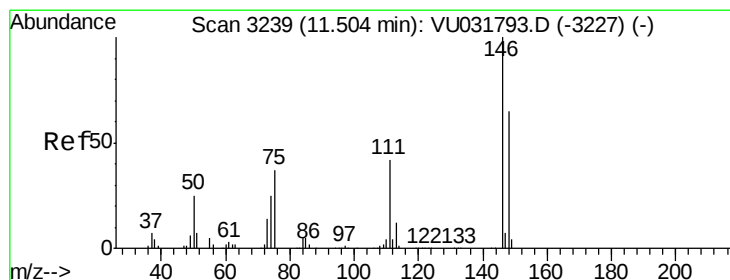
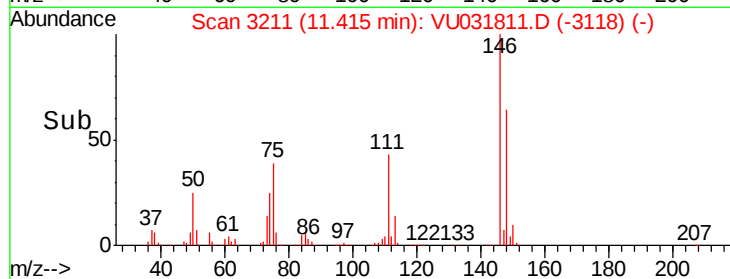
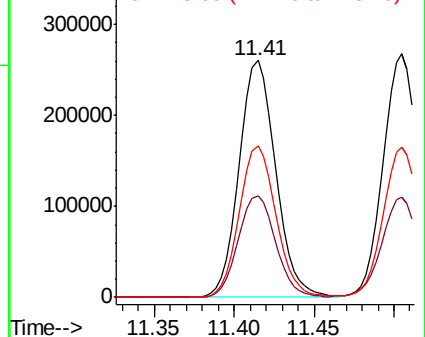
148 63.9 45.1 83.9



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: 46.744 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

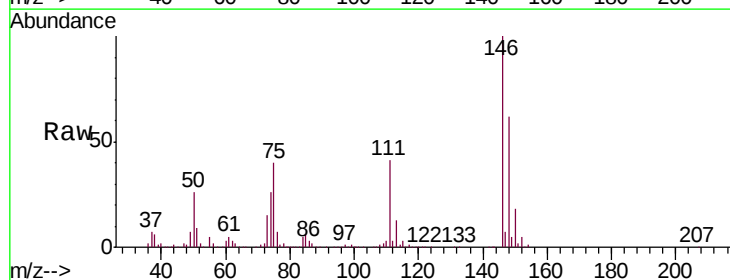
Tgt Ion:146 Resp: 424948

Ion Ratio Lower Upper

146 100

111 41.4 28.2 52.4

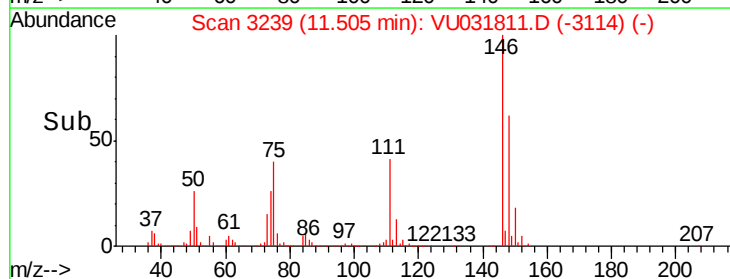
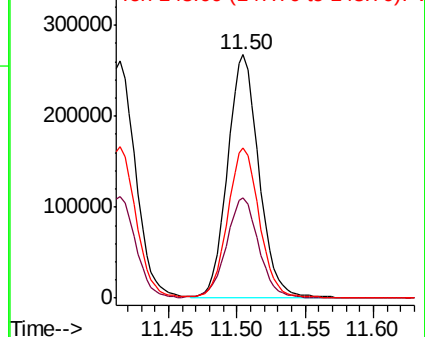
148 61.9 45.4 84.4

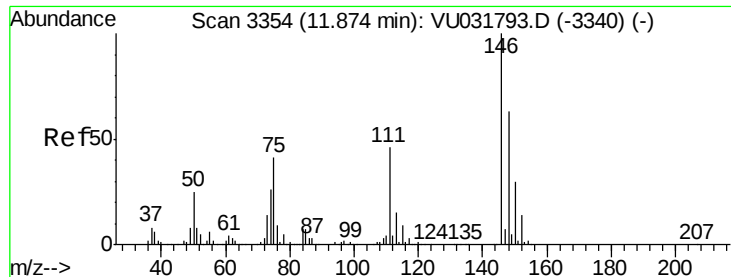


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

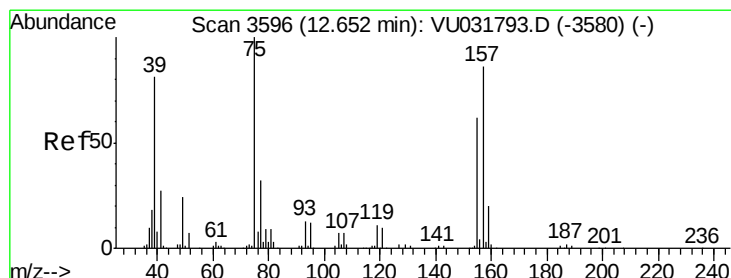
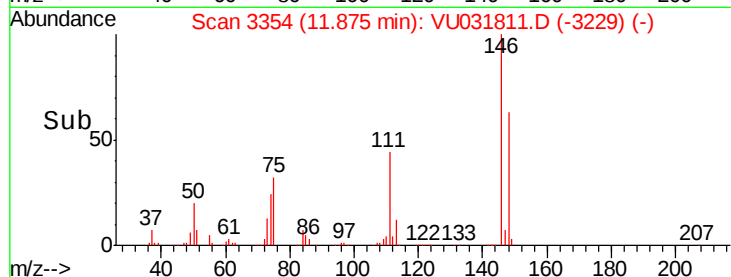
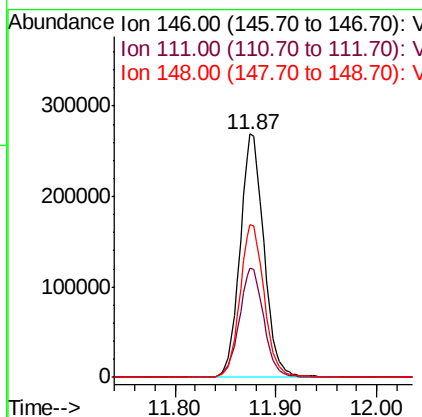
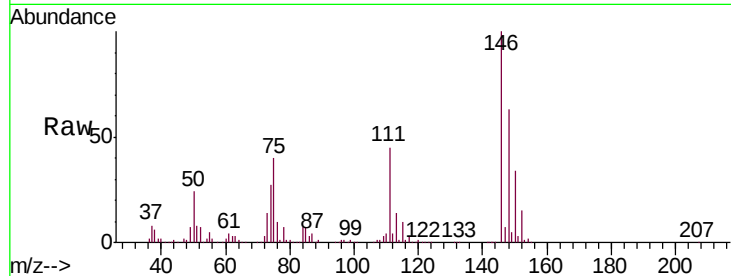




#65
 1,2-Dichlorobenzene
 Concen: 47.168 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

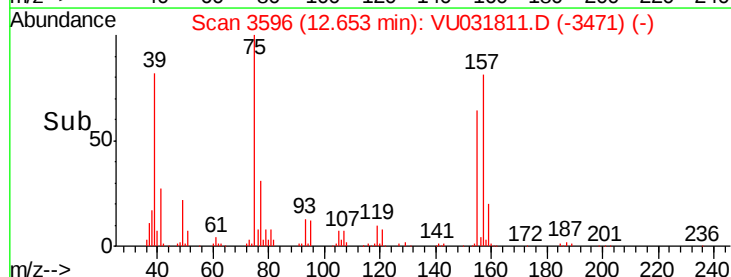
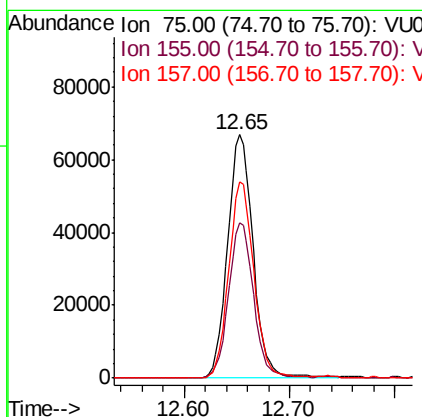
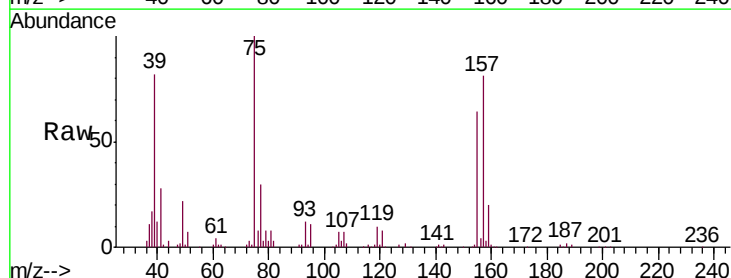
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

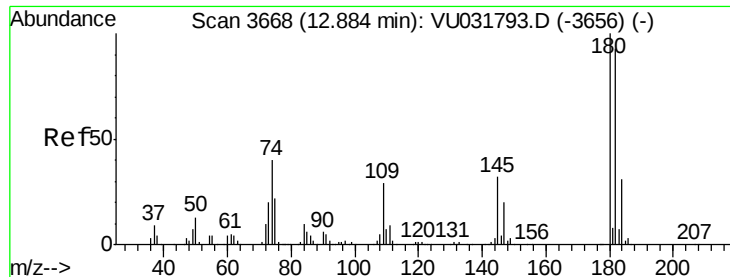
Tgt Ion: 146 Resp: 440041
 Ion Ratio Lower Upper
 146 100
 111 44.7 35.9 53.9
 148 62.9 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.672 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

Tgt Ion: 75 Resp: 111880
 Ion Ratio Lower Upper
 75 100
 155 63.6 54.0 81.0
 157 80.7 69.1 103.7

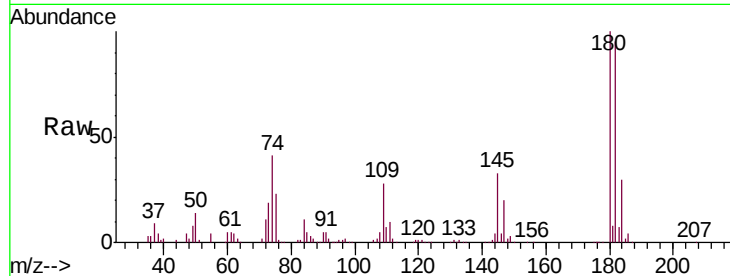




#67
 1,3,5-Trichlorobenzene
 Concen: 43.611 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	77.3	115.9
184	29.7	24.4	36.6
145	32.3	23.8	35.8



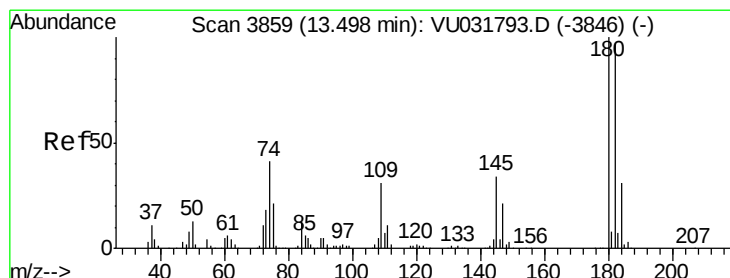
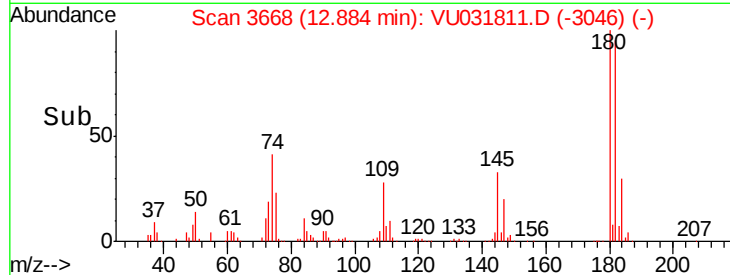
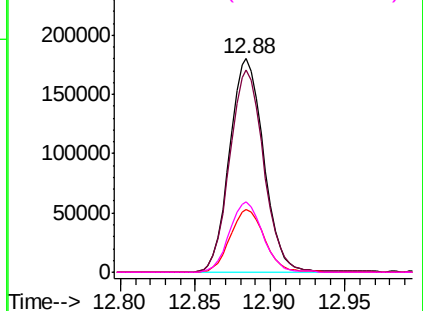
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

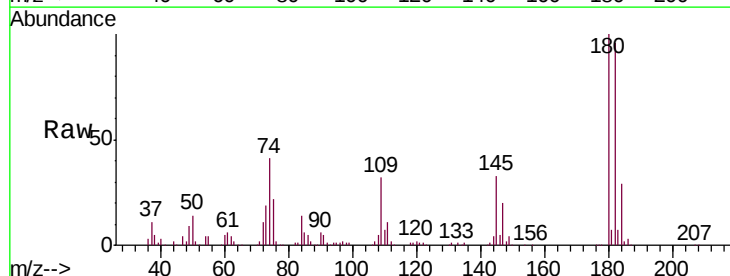
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 46.278 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031811.D
 Acq: 07 May 2019 17:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.9	75.8	113.8
145	31.6	24.5	36.7

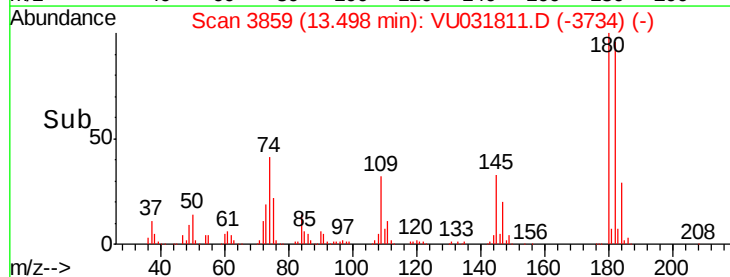
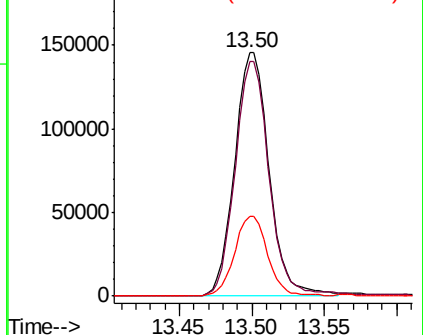


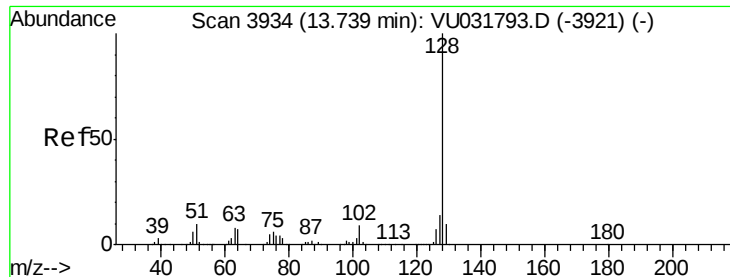
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 50.793 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

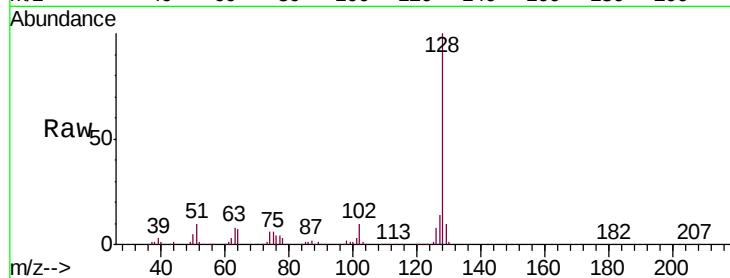
Tgt Ion:128 Resp: 901378

Ion Ratio Lower Upper

128 100

127 13.5 10.6 15.8

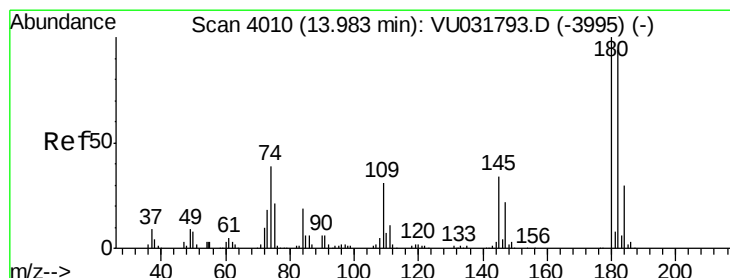
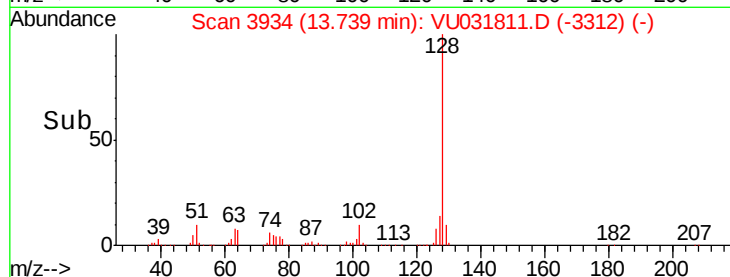
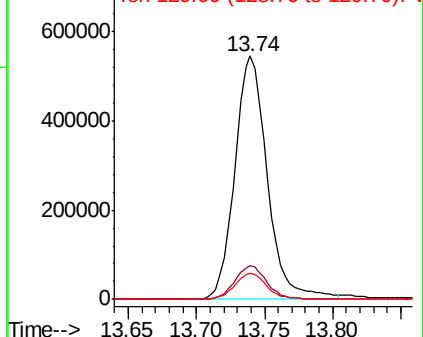
129 10.8 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 44.696 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031811.D

Acq: 07 May 2019 17:48

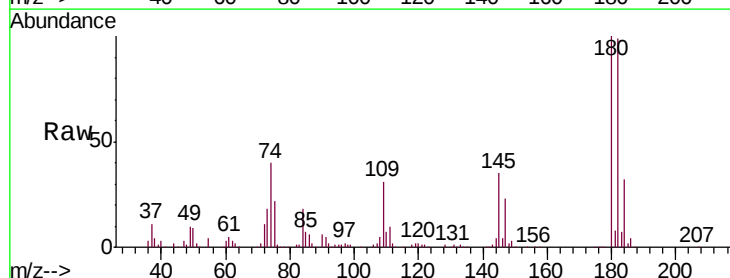
Tgt Ion:180 Resp: 264859

Ion Ratio Lower Upper

180 100

182 97.9 76.1 114.1

145 34.8 26.0 39.0



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

