

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081319\
 Data File : VU033781.D
 Acq On : 13 Aug 2019 14:59
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Quant Time: Aug 14 04:23:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 14 04:16:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	455495	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	439928	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	236012	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	189397	43.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.56%
7) Chloroethane-d5	1.67	69	182180	45.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.44%
11) 1,1-Dichloroethene-d2	2.26	63	322931	45.71	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.42%
21) 2-Butanone-d5	4.16	46	227142	94.38	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.38%
24) Chloroform-d	4.62	84	298335	44.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.32%
26) 1,2-Dichloroethane-d4	5.29	65	184260	44.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.12%
32) Benzene-d6	5.32	84	591810	46.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.92%
36) 1,2-Dichloropropane-d6	6.31	67	186949	45.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.80%
41) Toluene-d8	7.55	98	559302	47.59	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.18%
43) trans-1,3-Dichloropropene-	7.83	79	93510	48.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.22%
47) 2-Hexanone-d5	8.30	63	166765	102.33	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.33%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	268559	46.20	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.40%
66) 1,2-Dichlorobenzene-d4	11.85	152	223039	46.78	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.56%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	221006	48.674	ug/L 99
3) Chloromethane	1.32	50	220696	46.815	ug/L 98
5) Vinyl chloride	1.39	62	243162	47.634	ug/L 98
6) Bromomethane	1.62	94	159412	42.544	ug/L 99
8) Chloroethane	1.69	64	175463	48.093	ug/L 98
9) Trichlorofluoromethane	1.87	101	315592	48.113	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	158708	49.435	ug/L 97
12) 1,1-Dichloroethene	2.27	96	154941	49.052	ug/L 94
13) Acetone	2.32	43	227091	103.597	ug/L 95
14) Carbon disulfide	2.46	76	481820	48.183	ug/L 100
15) Methyl Acetate	2.60	43	171361	46.766	ug/L 100
16) Methylene chloride	2.68	84	172159	47.739	ug/L 97
17) trans-1,2-Dichloroethene	2.96	96	160900	48.946	ug/L 99
18) Methyl tert-butyl Ether	2.98	73	491220	50.270	ug/L 99
19) 1,1-Dichloroethane	3.42	63	297609	47.118	ug/L 98
20) cis-1,2-Dichloroethene	4.20	96	177857	49.272	ug/L 97
22) 2-Butanone	4.24	43	273816	102.823	ug/L 99

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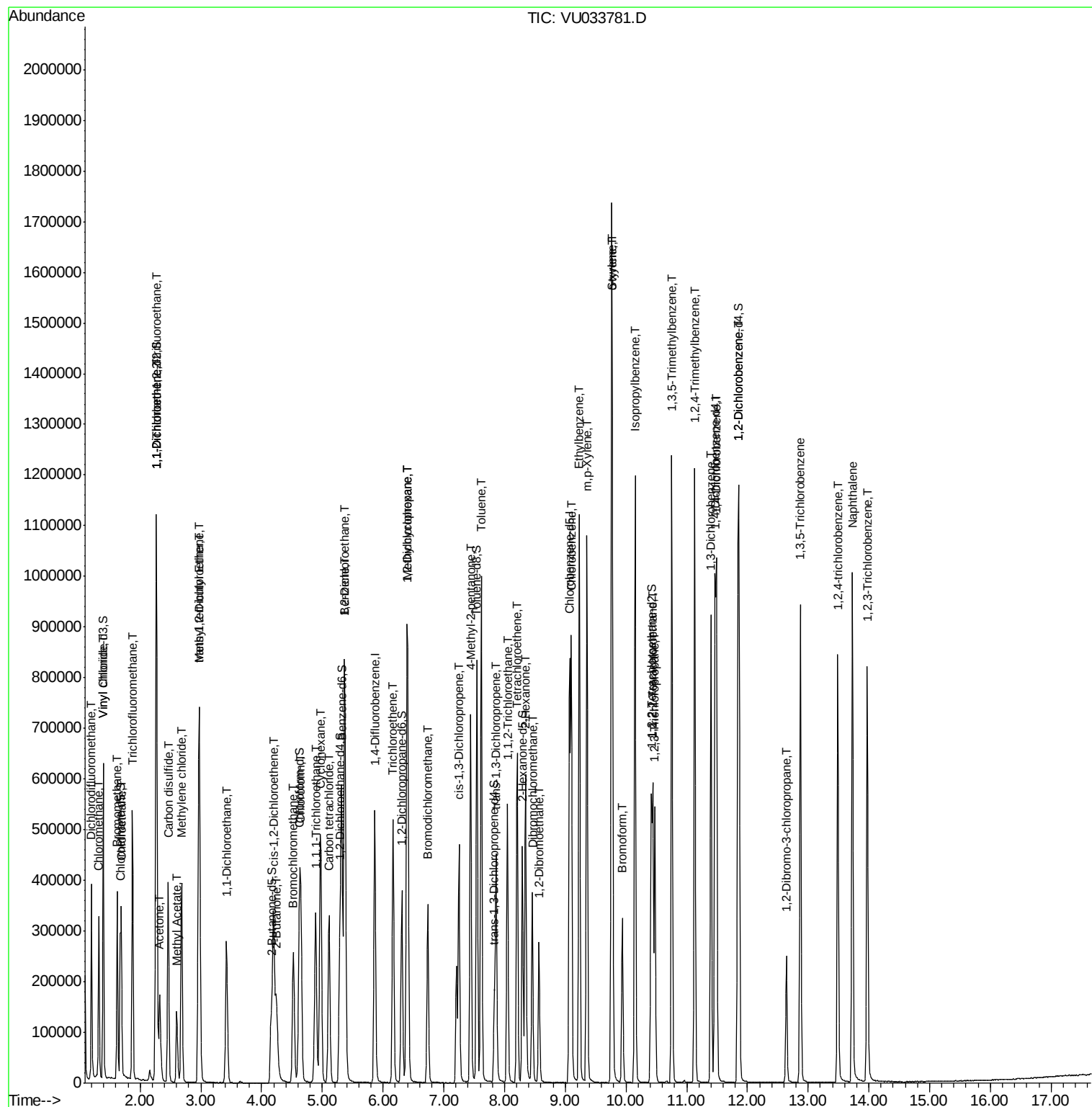
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	91686	49.019	ug/L	94
25) Chloroform	4.65	83	303440	46.225	ug/L	99
27) 1,2-Dichloroethane	5.38	62	239240	46.917	ug/L	98
29) Cyclohexane	4.97	56	261515	54.085	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	260478	48.273	ug/L	98
31) Carbon tetrachloride	5.11	117	240743	50.234	ug/L	98
33) Benzene	5.36	78	673046	50.005	ug/L	100
34) Trichloroethene	6.16	95	175709	49.277	ug/L	98
35) Methylcyclohexane	6.40	83	280088	53.893	ug/L	97
37) 1,2-Dichloropropane	6.41	63	177622	48.431	ug/L	100
38) Bromodichloromethane	6.74	83	228269	48.236	ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	278256	51.398	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	455834	99.894	ug/L	98
42) Toluene	7.62	91	727313	51.164	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	254113	51.532	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	167046	48.261	ug/L	99
46) Tetrachloroethene	8.21	164	146888	52.525	ug/L	98
48) 2-Hexanone	8.34	43	380487	108.933	ug/L	99
49) Dibromochloromethane	8.46	129	192894	49.917	ug/L	100
50) 1,2-Dibromoethane	8.57	107	182956	50.386	ug/L	100
51) Chlorobenzene	9.10	112	464959	50.259	ug/L	99
52) Ethylbenzene	9.23	91	781424	52.241	ug/L	100
53) m,p-Xylene	9.36	106	299599	53.581	ug/L	99
54) o-xylene	9.76	106	293499	53.355	ug/L	96
55) Styrene	9.77	104	504296	54.005	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.44	83	277740	47.976	ug/L	99
59) Bromoform	9.94	173	147274	48.843	ug/L	100
60) 1,2,3-Trichloropropane	10.48	75	223917	47.152	ug/L	99
61) Isopropylbenzene	10.15	105	766347	52.449	ug/L	100
62) 1,3,5-Trimethylbenzene	10.76	105	644220	54.615	ug/L	99
63) 1,2,4-Trimethylbenzene	11.13	105	647913	55.358	ug/L	99
64) 1,3-Dichlorobenzene	11.40	146	377713	51.530	ug/L	99
65) 1,4-Dichlorobenzene	11.49	146	384103	51.127	ug/L	100
67) 1,2-Dichlorobenzene	11.86	146	375435	50.403	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.64	75	64353	48.592	ug/L	97
69) 1,3,5-Trichlorobenzene	12.87	180	298445	53.903	ug/L	99
70) 1,2,4-trichlorobenzene	13.49	180	263462	57.373	ug/L	98
71) Naphthalene	13.73	128	804308	58.841	ug/L	99
72) 1,2,3-Trichlorobenzene	13.97	180	269519	55.991	ug/L	99

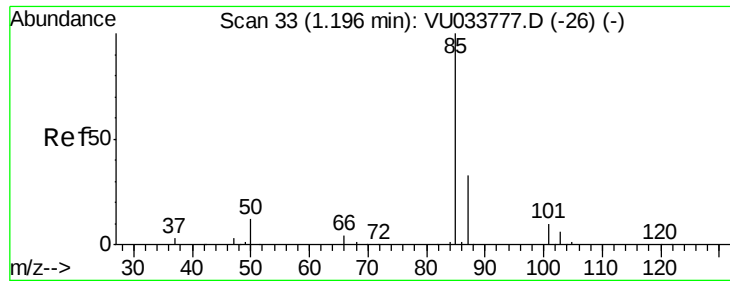
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 48.674 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

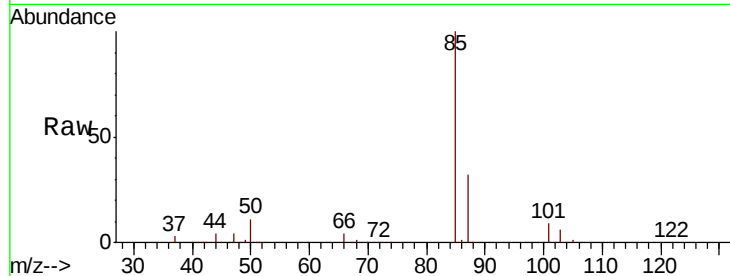
VSTD05041

Tgt Ion: 85 Resp: 221006

Ion Ratio Lower Upper

85 100

87 32.2 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU033777.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033777.D (-26) (-)

1.20

250000

200000

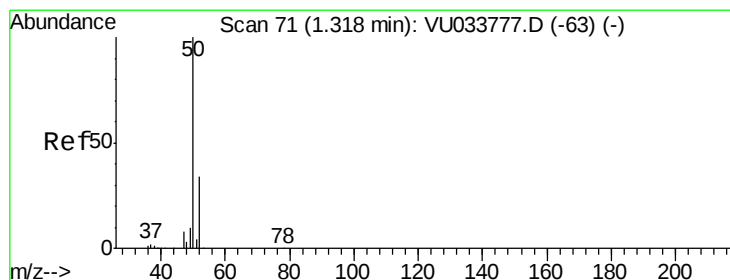
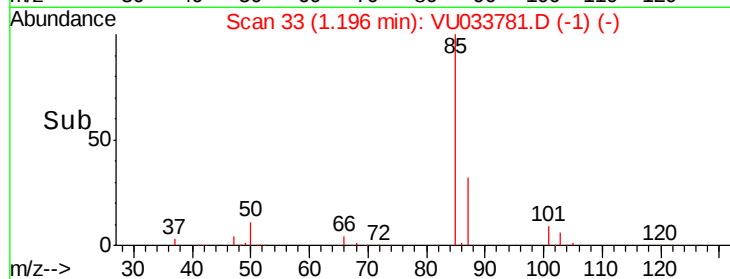
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 46.815 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033781.D

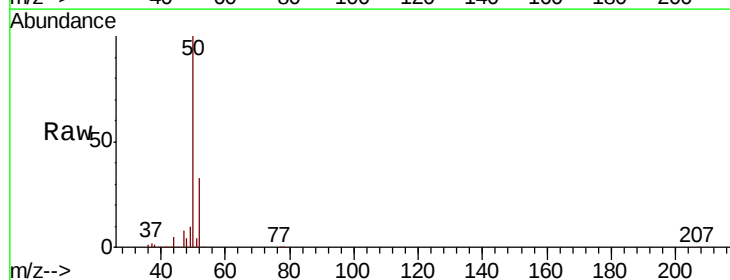
Acq: 13 Aug 2019 14:59

Tgt Ion: 50 Resp: 220696

Ion Ratio Lower Upper

50 100

52 32.7 23.5 43.7



Abundance Ion 50.00 (49.70 to 50.70): VU033777.D (-63) (-)

Ion 52.00 (51.70 to 52.70): VU033777.D (-63) (-)

1.32

200000

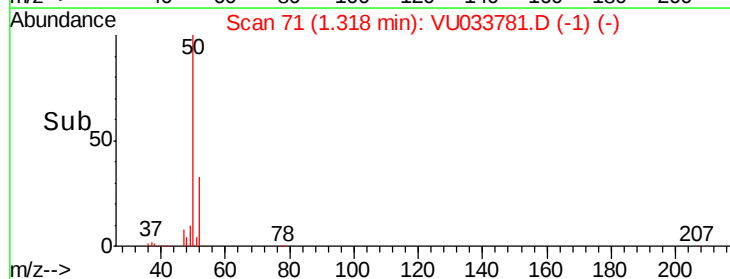
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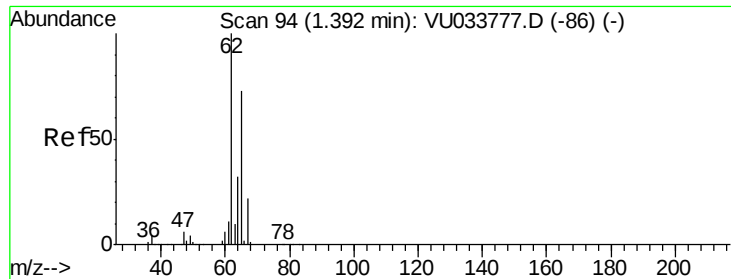
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 47.634 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

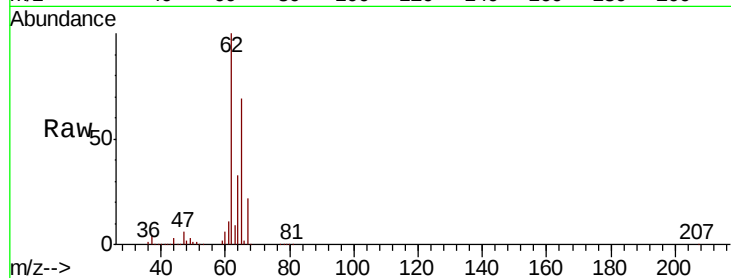
VSTD05041

Tgt Ion: 62 Resp: 243162

Ion Ratio Lower Upper

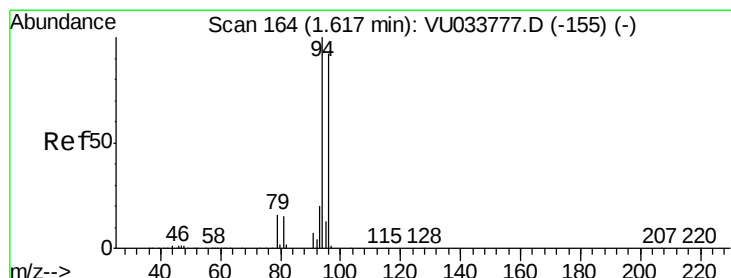
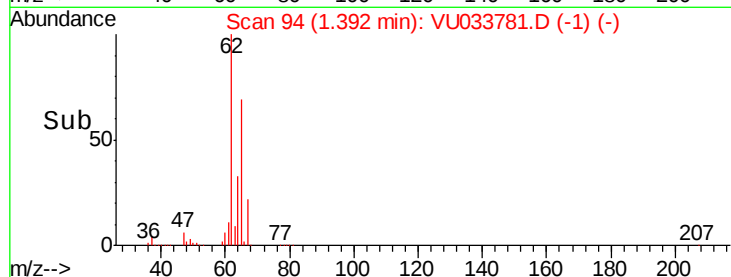
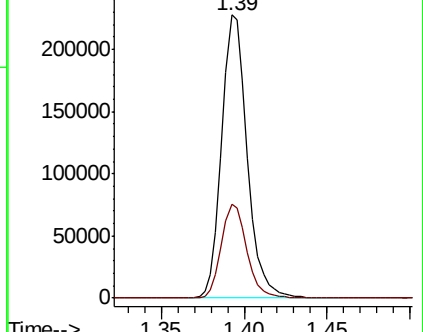
62 100

64 33.0 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VU033777.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033777.D (-86) (-)



#6

Bromomethane

Concen: 42.544 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033781.D

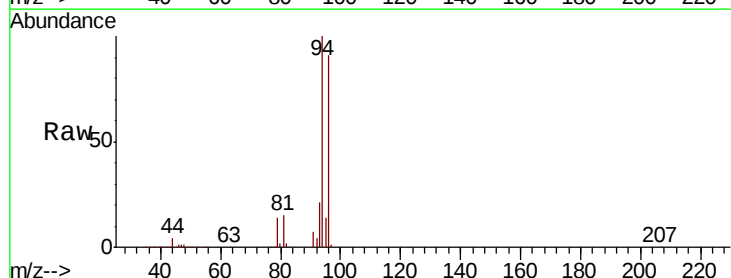
Acq: 13 Aug 2019 14:59

Tgt Ion: 94 Resp: 159412

Ion Ratio Lower Upper

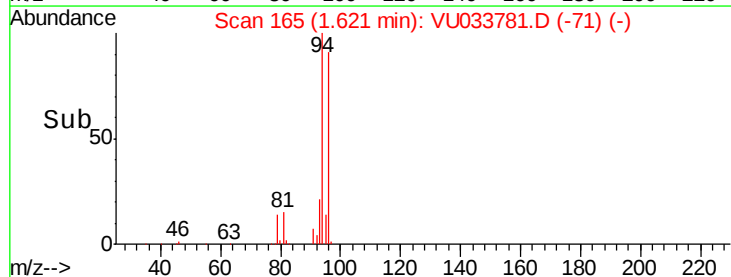
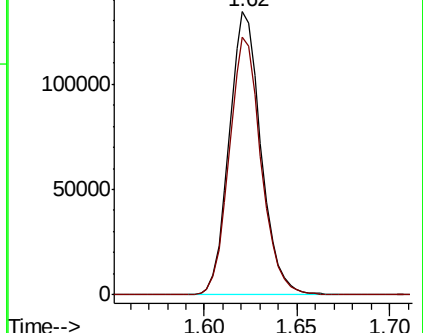
94 100

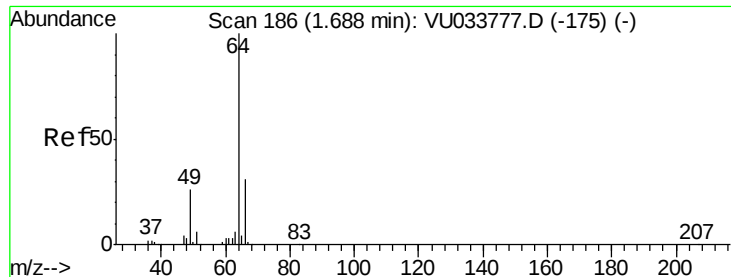
96 91.1 64.5 119.7



Abundance Ion 94.00 (93.70 to 94.70): VU033777.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033777.D (-155) (-)





#8

Chloroethane

Concen: 48.093 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

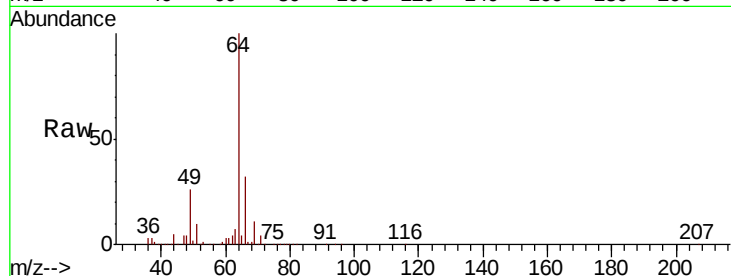
VSTD05041

Tgt Ion: 64 Resp: 175463

Ion Ratio Lower Upper

64 100

66 32.2 21.9 40.7



Abundance Ion 64.00 (63.70 to 64.70): VU033781.D (-120) (-)

Ion 66.00 (65.70 to 66.70): VU033781.D (-120) (-)

1.69

150000

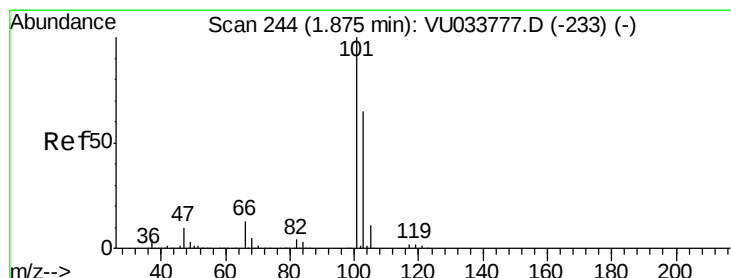
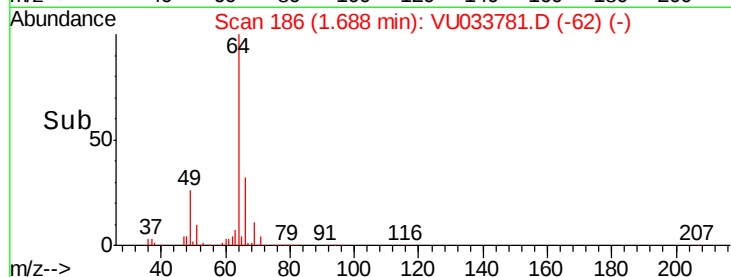
100000

50000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 48.113 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033781.D

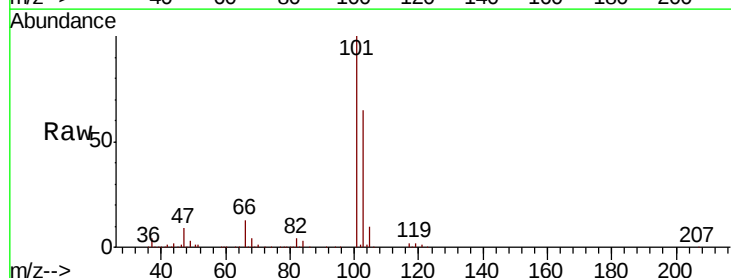
Acq: 13 Aug 2019 14:59

Tgt Ion: 101 Resp: 315592

Ion Ratio Lower Upper

101 100

103 65.1 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU033781.D (-120) (-)

Ion 103.00 (102.70 to 103.70): VU033781.D (-120) (-)

1.87

250000

200000

150000

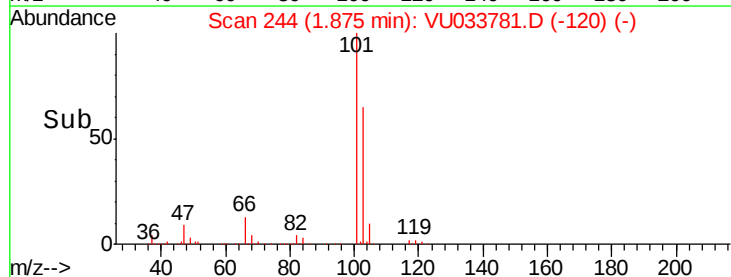
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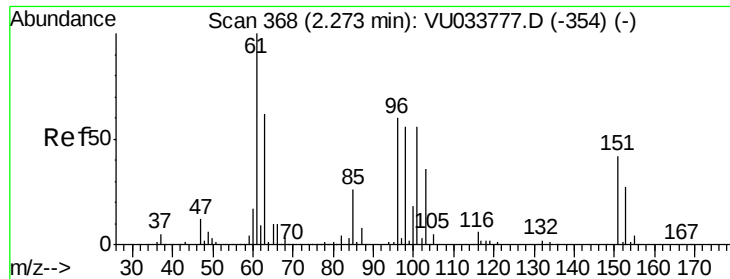
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 49.435 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

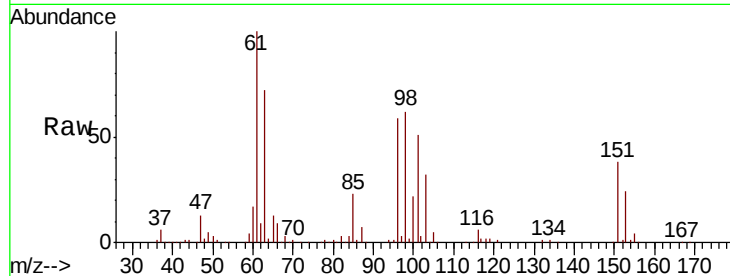
Tgt Ion:101 Resp: 158708

Ion Ratio Lower Upper

101 100

85 45.1 35.2 52.8

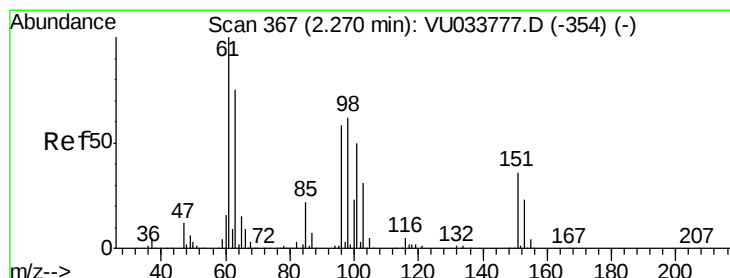
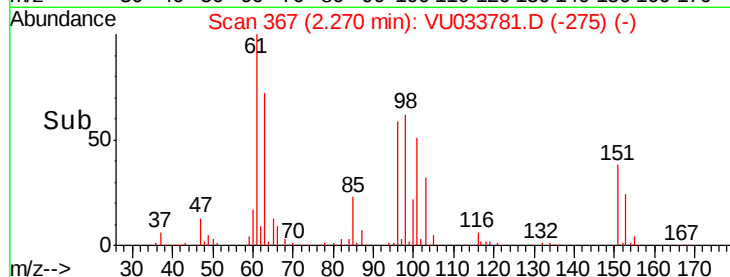
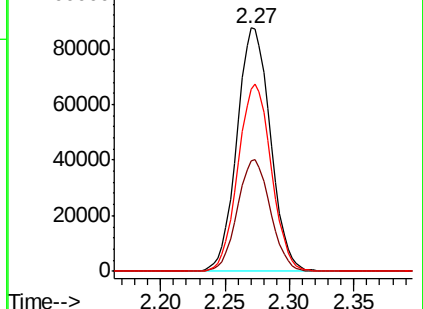
151 76.2 58.5 87.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 49.052 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

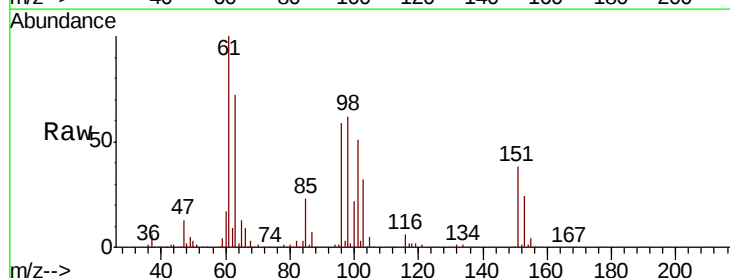
Tgt Ion: 96 Resp: 154941

Ion Ratio Lower Upper

96 100

61 169.2 121.5 225.7

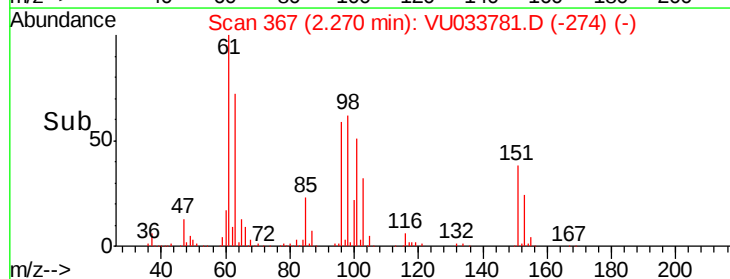
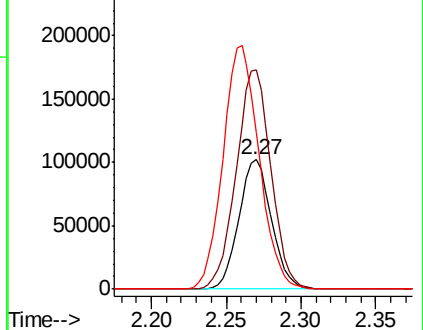
63 121.1 92.9 172.5

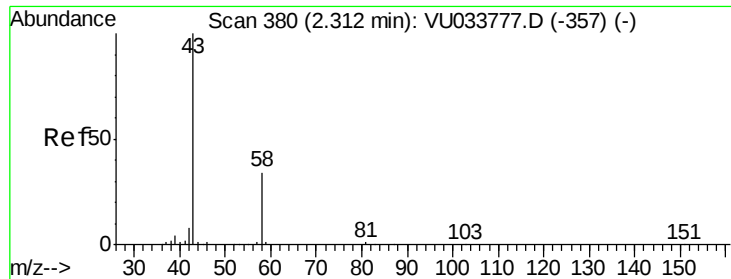


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 103.597 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.01 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

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ClientSampleId :

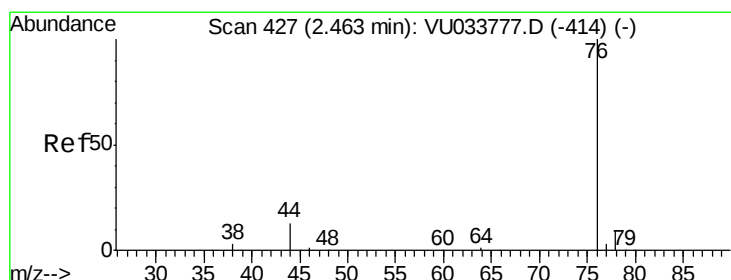
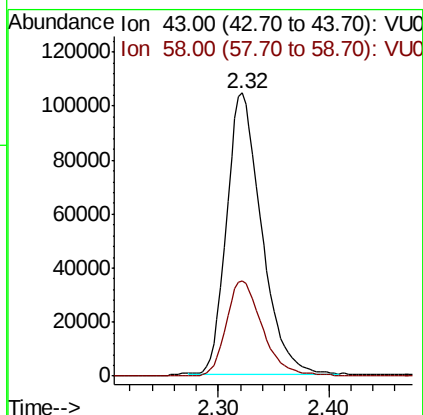
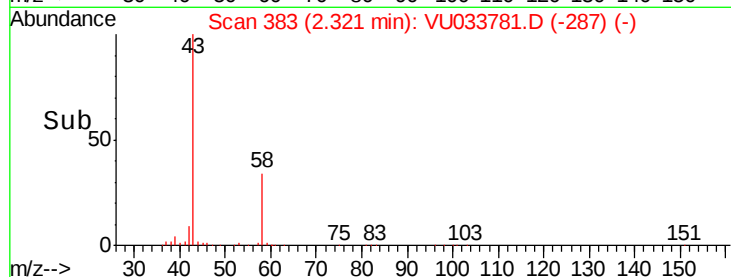
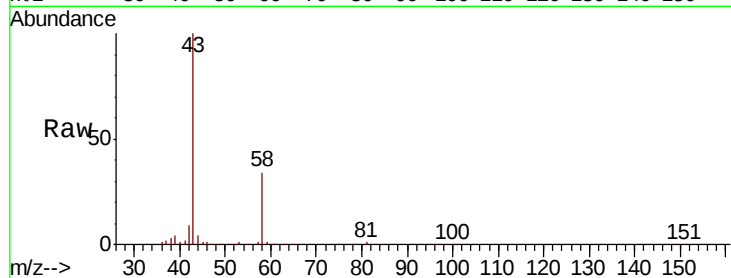
VSTD05041

Tgt Ion: 43 Resp: 227091

Ion Ratio Lower Upper

43 100

58 35.5 0.0 65.8



#14

Carbon disulfide

Concen: 48.183 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033781.D

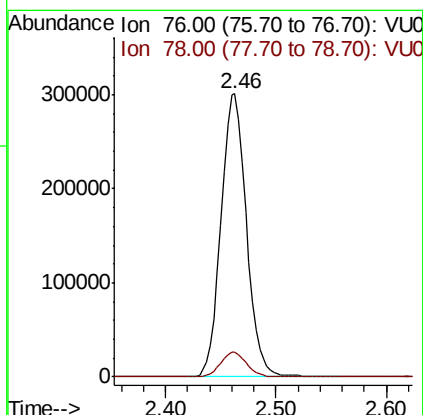
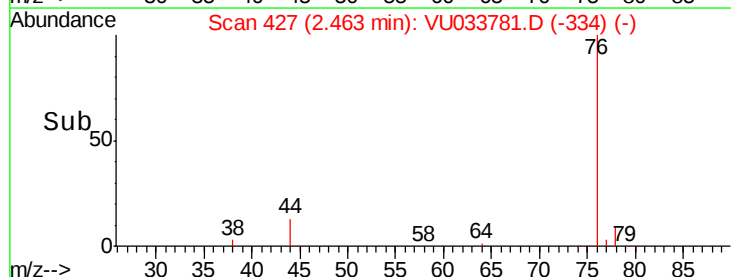
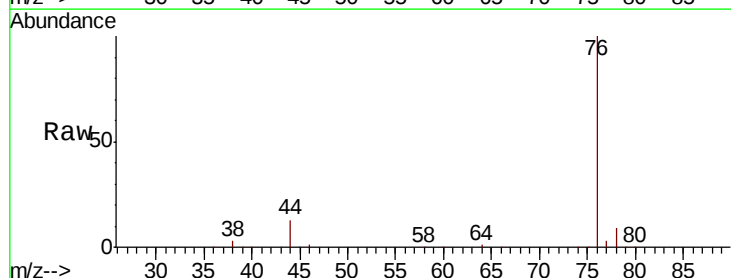
Acq: 13 Aug 2019 14:59

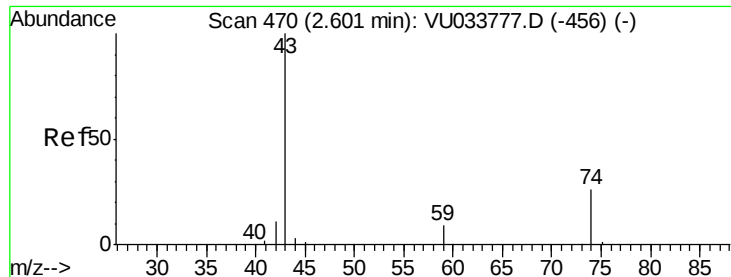
Tgt Ion: 76 Resp: 481820

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





#15

Methyl Acetate

Concen: 46.766 ug/L

RT: 2.60 min Scan# 470

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

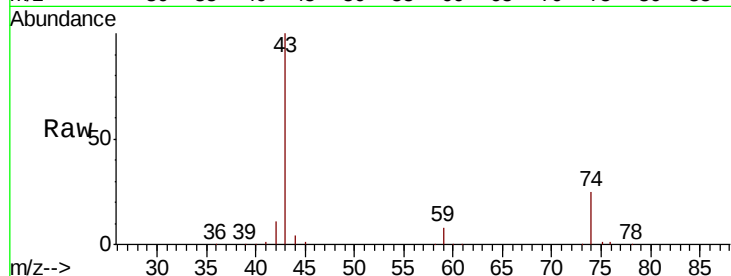
VSTD05041

Tgt Ion: 43 Resp: 171361

Ion Ratio Lower Upper

43 100

74 25.2 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VU033777.D (-456) (-)

Ion 74.00 (73.70 to 74.70): VU033777.D (-456) (-)

2.60

100000

80000

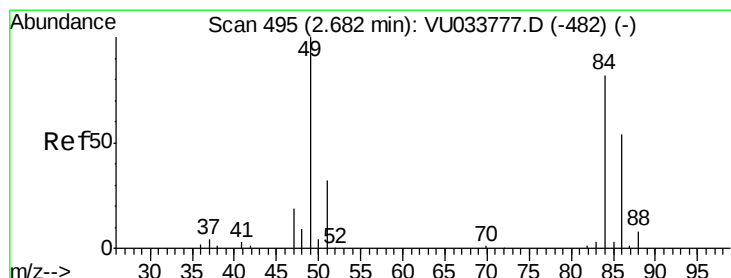
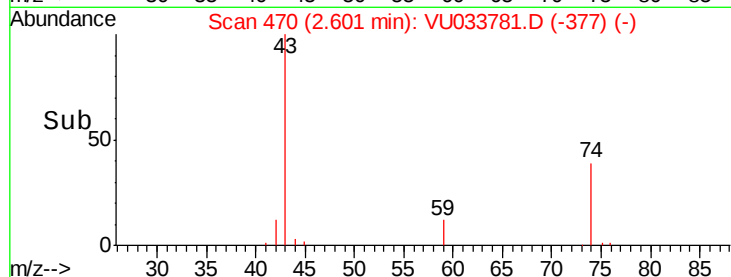
60000

40000

20000

0

Time-->



#16

Methylene chloride

Concen: 47.739 ug/L

RT: 2.68 min Scan# 495

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

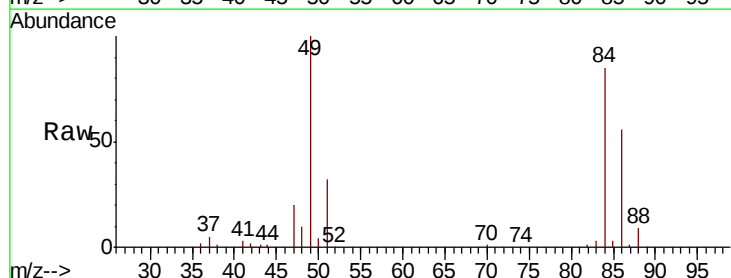
Tgt Ion: 84 Resp: 172159

Ion Ratio Lower Upper

84 100

86 65.4 45.4 84.4

49 117.2 84.9 157.7



Abundance Ion 84.00 (83.70 to 84.70): VU033777.D (-482) (-)

Ion 86.00 (85.70 to 86.70): VU033777.D (-482) (-)

Ion 49.00 (48.70 to 49.70): VU033777.D (-482) (-)

2.68

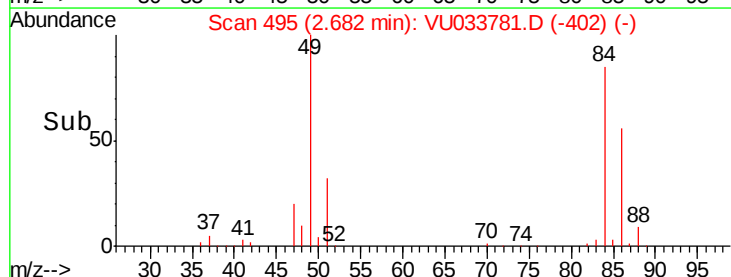
150000

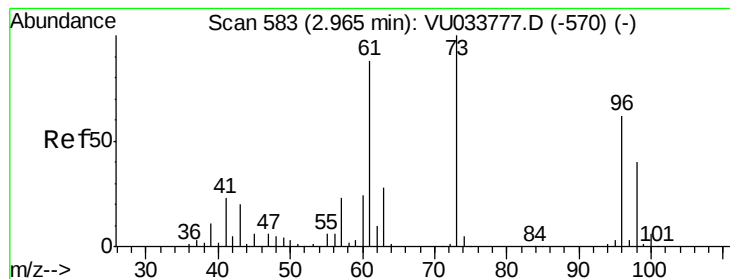
100000

50000

0

Time-->





#17

trans-1,2-Dichloroethene

Concen: 48.946 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

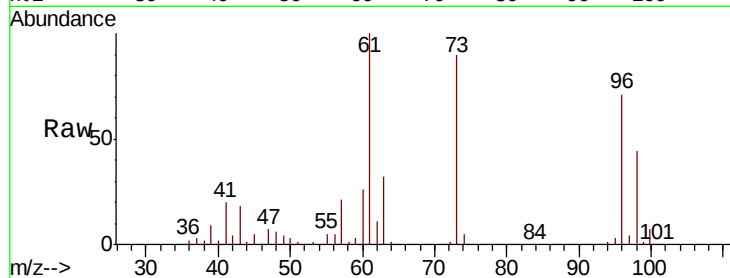
Tgt Ion: 96 Resp: 160900

Ion Ratio Lower Upper

96 100

61 140.8 98.8 183.6

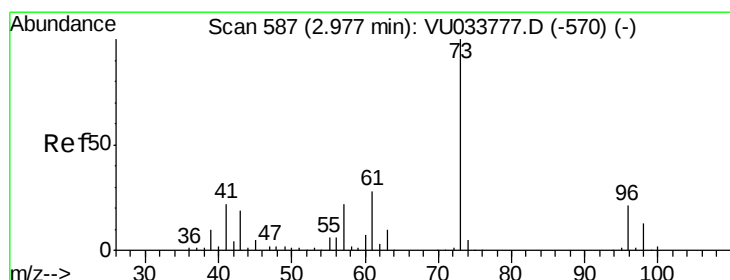
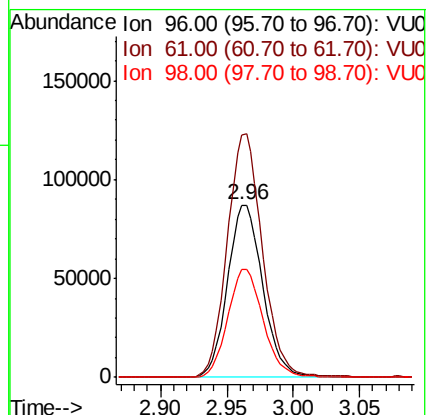
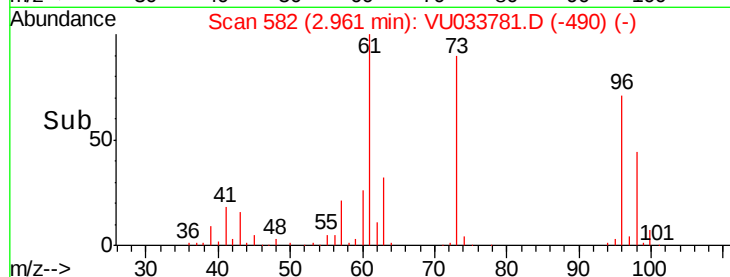
98 62.5 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU033781.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033781.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033781.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 50.270 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

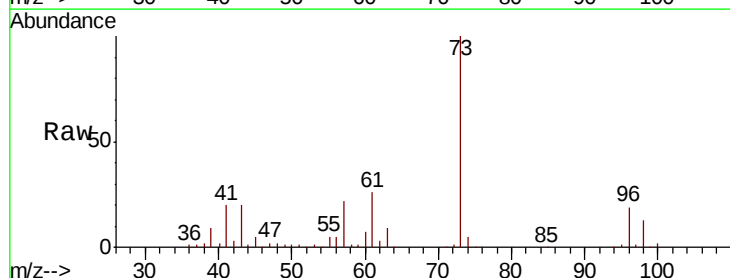
Tgt Ion: 73 Resp: 491220

Ion Ratio Lower Upper

73 100

43 19.0 15.4 23.2

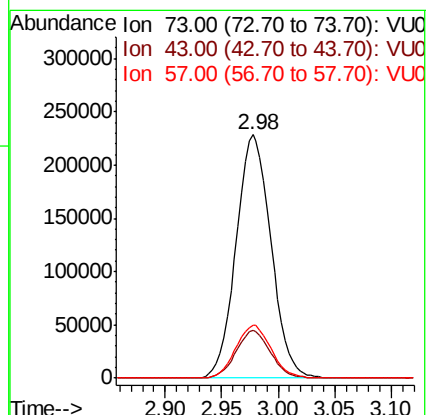
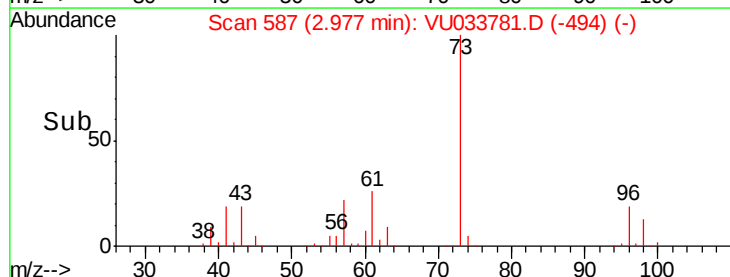
57 21.9 17.9 26.9

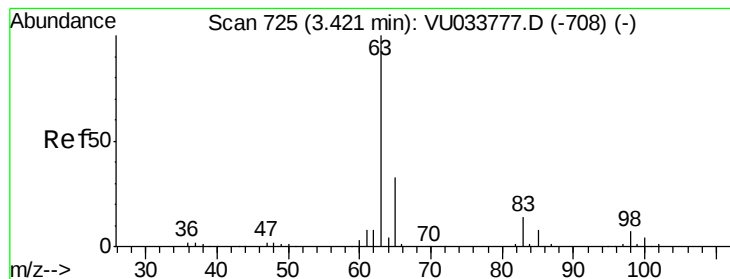


Abundance Ion 73.00 (72.70 to 73.70): VU033781.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033781.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033781.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 47.118 ug/L

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

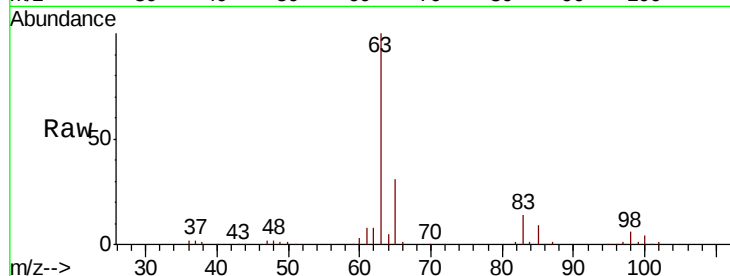
Tgt Ion: 63 Resp: 297609

Ion Ratio Lower Upper

63 100

65 31.3 22.8 42.4

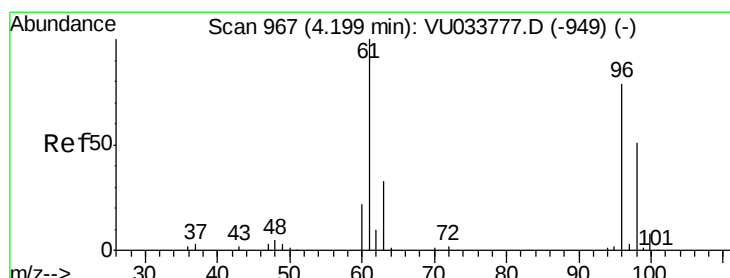
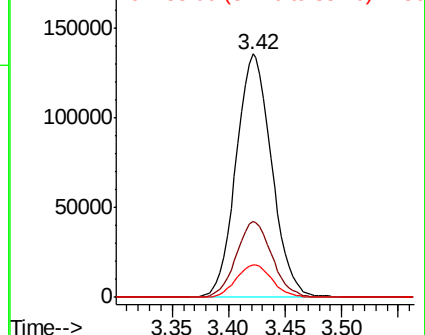
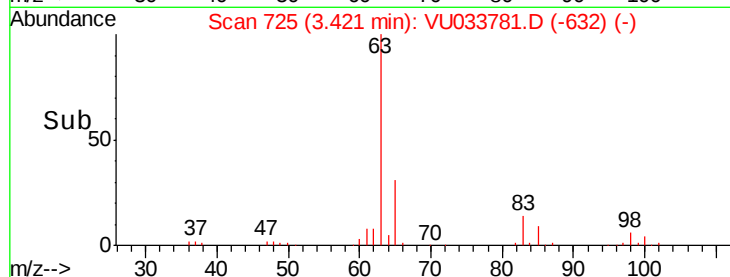
83 13.6 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VU033781.D (-632) (-)

Ion 65.00 (64.70 to 65.70): VU033781.D (-632) (-)

Ion 83.00 (82.70 to 83.70): VU033781.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.272 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

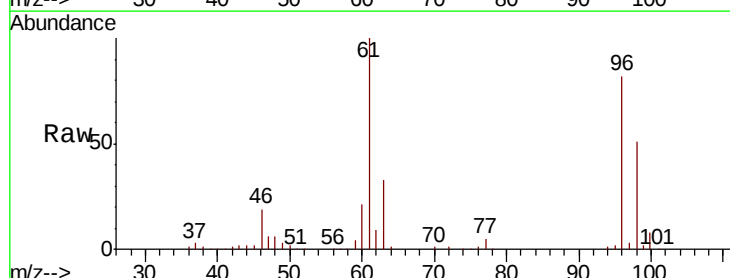
Tgt Ion: 96 Resp: 177857

Ion Ratio Lower Upper

96 100

61 122.5 88.3 163.9

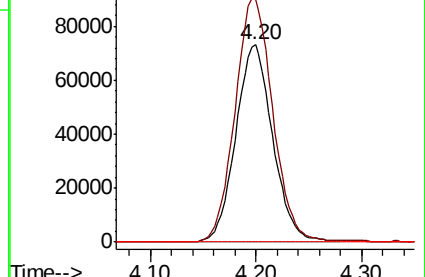
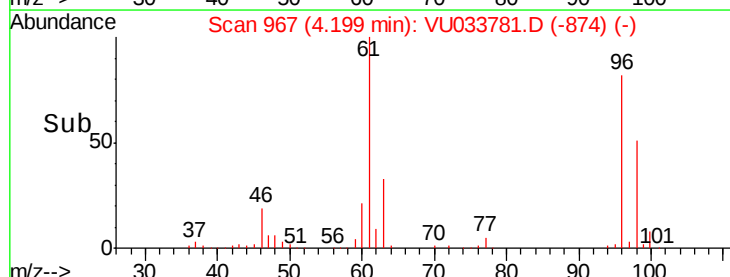
68 0.0 0.0 0.0

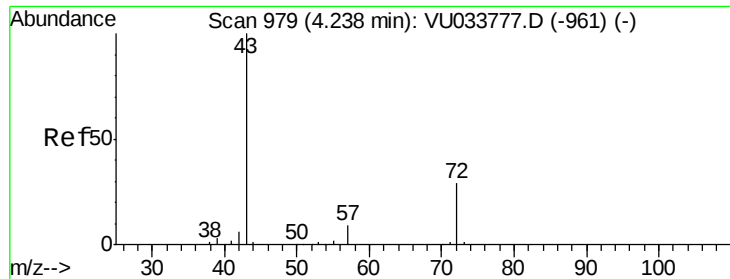


Abundance Ion 96.00 (95.70 to 96.70): VU033781.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033781.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033781.D (-874) (-)





#22

2-Butanone

Concen: 102.823 ug/L

RT: 4.24 min Scan# 980

Delta R.T. 0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

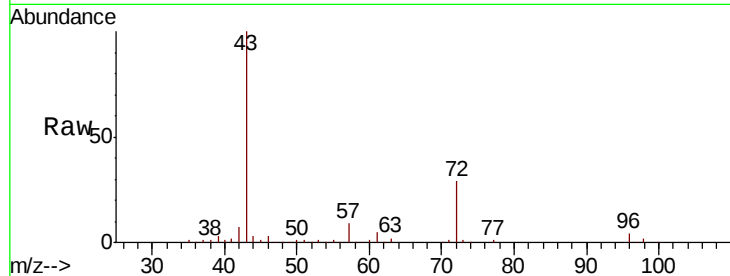
VSTD05041

Tgt Ion: 43 Resp: 273816

Ion Ratio Lower Upper

43 100

72 29.3 14.5 43.5



Abundance Ion 43.00 (42.70 to 43.70): VU033777.D (-961) (-)

Ion 72.00 (71.70 to 72.70): VU033777.D (-961) (-)

4.24

100000

80000

60000

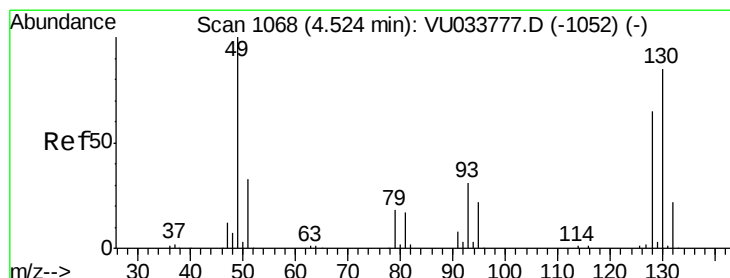
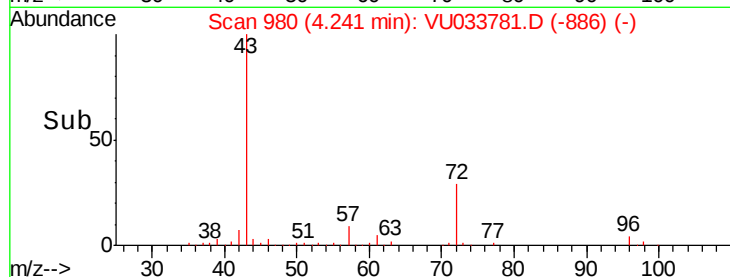
40000

20000

0

4.10 4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 49.019 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Tgt Ion: 128 Resp: 91686

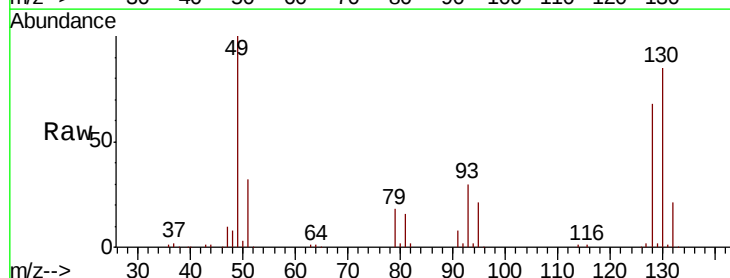
Ion Ratio Lower Upper

128 100

49 146.9 108.1 200.7

130 124.7 91.8 170.6

51 46.8 40.6 61.0



Abundance Ion 128.00 (127.70 to 128.70): VU033777.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU033777.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU033777.D (-1052) (-)

Ion 51.00 (50.70 to 51.70): VU033777.D (-1052) (-)

80000

60000

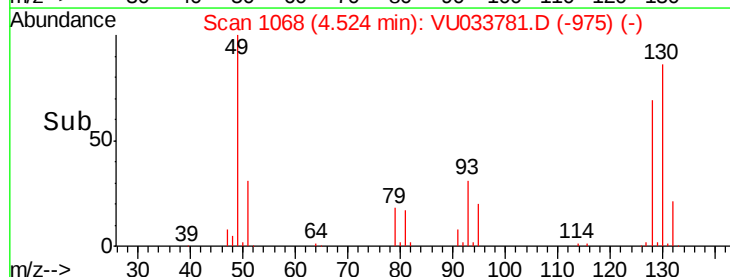
40000

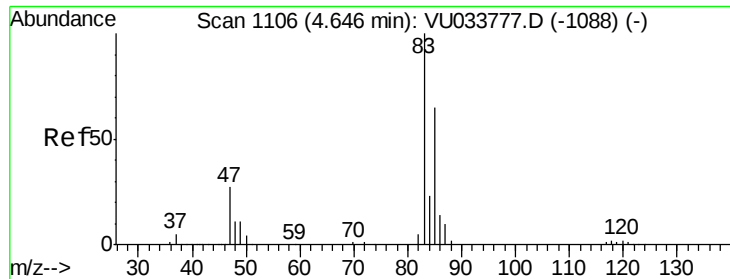
20000

0

4.40 4.50 4.60

Time-->





#25

Chloroform

Concen: 46.225 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

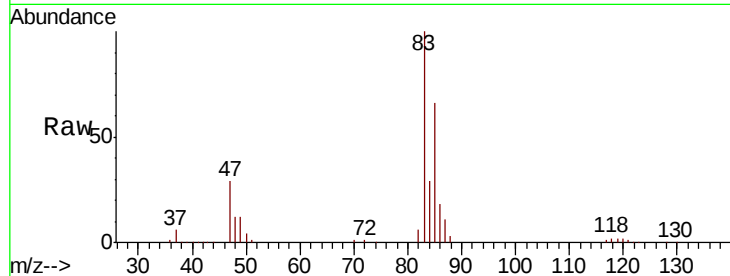
VSTD05041

Tgt Ion: 83 Resp: 303440

Ion Ratio Lower Upper

83 100

85 65.6 45.6 84.6



Abundance Ion 83.00 (82.70 to 83.70): VU033777.D (-1088) (-)

Ion 85.00 (84.70 to 85.70): VU033777.D (-1088) (-)

4.65

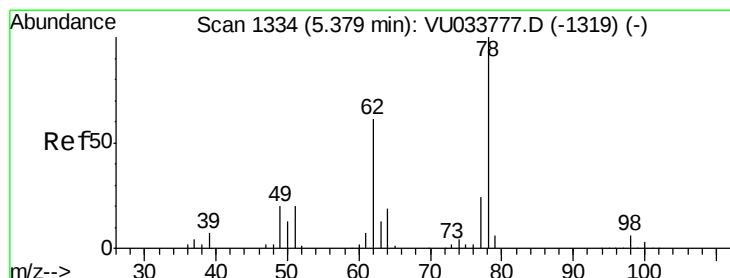
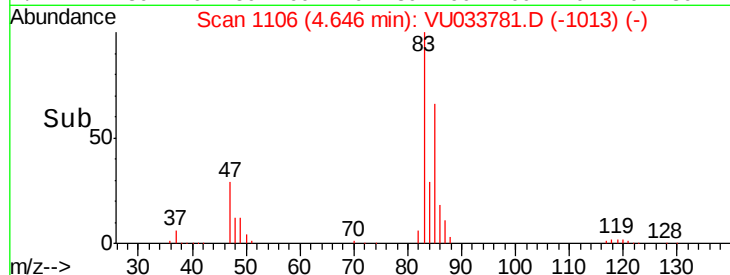
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 46.917 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VU033781.D

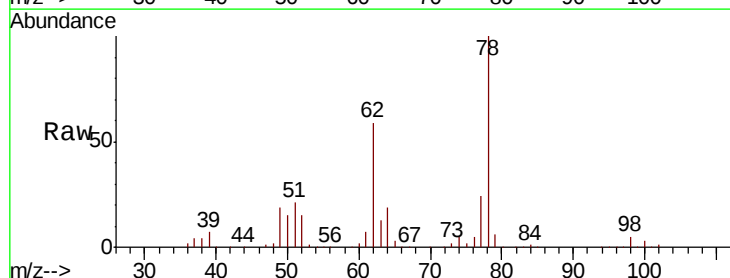
Acq: 13 Aug 2019 14:59

Tgt Ion: 62 Resp: 239240

Ion Ratio Lower Upper

62 100

98 8.6 7.4 11.0



Abundance Ion 62.00 (61.70 to 62.70): VU033777.D (-1319) (-)

Ion 98.00 (97.70 to 98.70): VU033777.D (-1319) (-)

5.38

120000

100000

80000

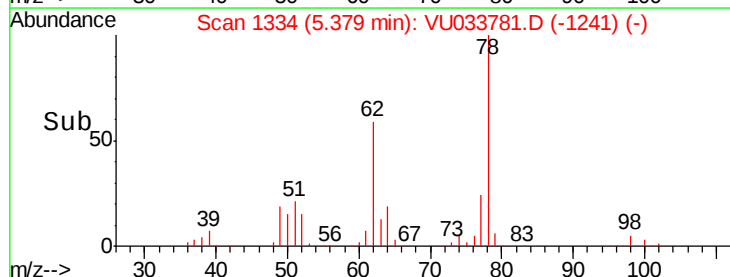
60000

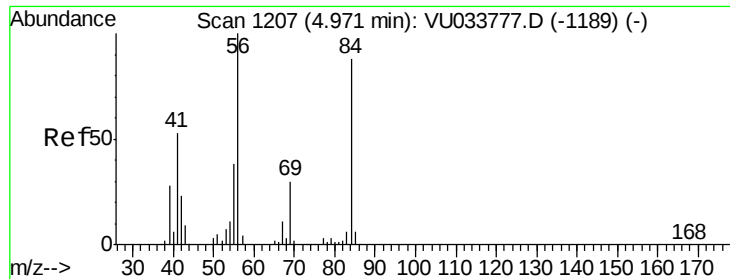
40000

20000

0

Time-->

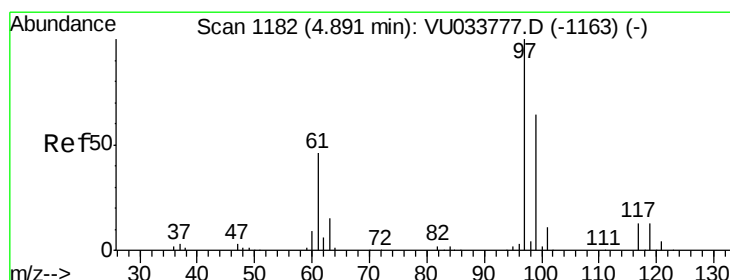
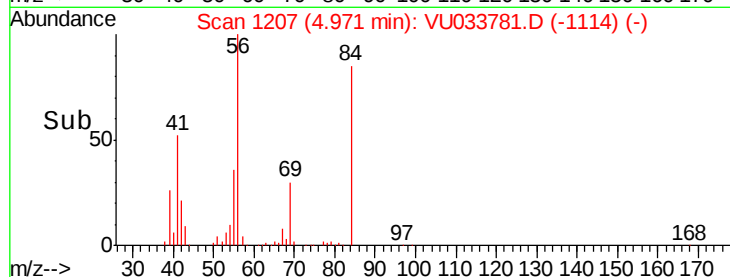
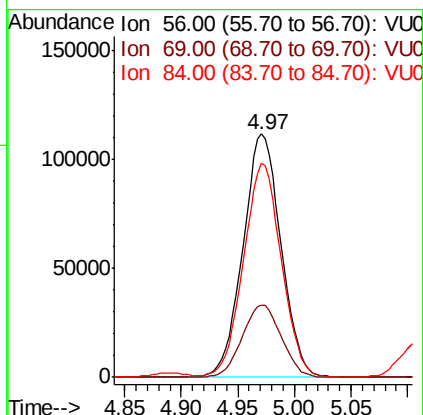
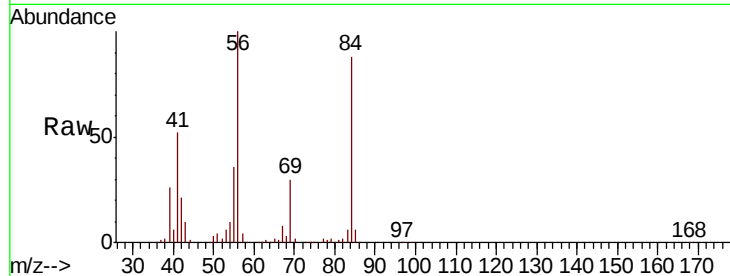




#29
Cyclohexane
Concen: 54.085 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033781.D
Acq: 13 Aug 2019 14:59

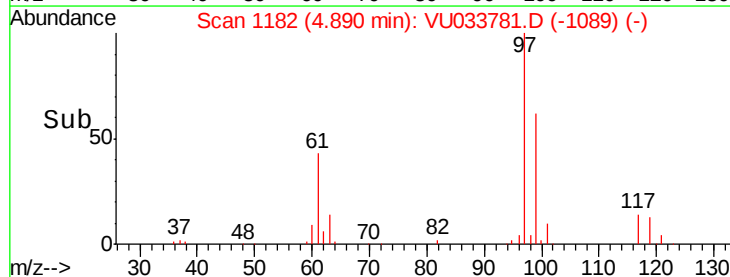
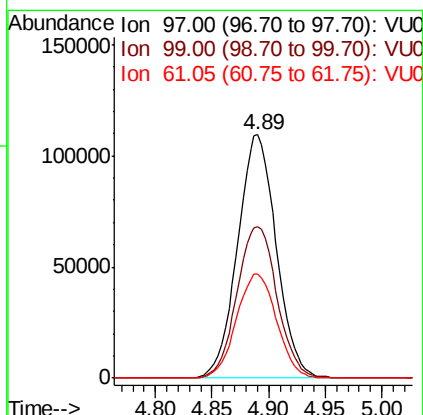
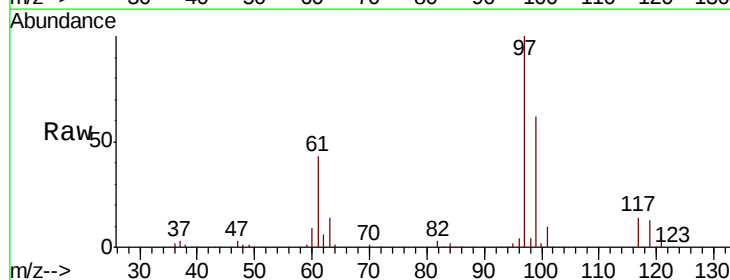
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

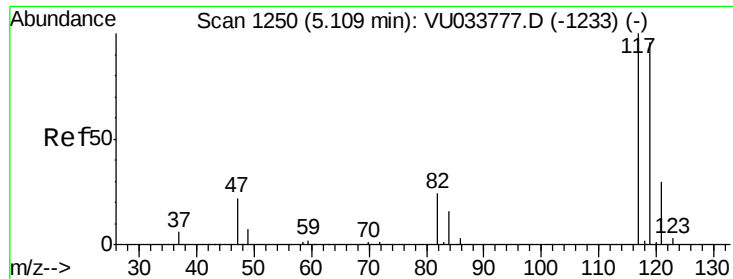
Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.5	25.0	37.4
84	87.3	70.3	105.5



#30
1,1,1-Trichloroethane
Concen: 48.273 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033781.D
Acq: 13 Aug 2019 14:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	50.9	76.3
61	44.2	36.6	54.8





#31

Carbon tetrachloride

Concen: 50.234 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

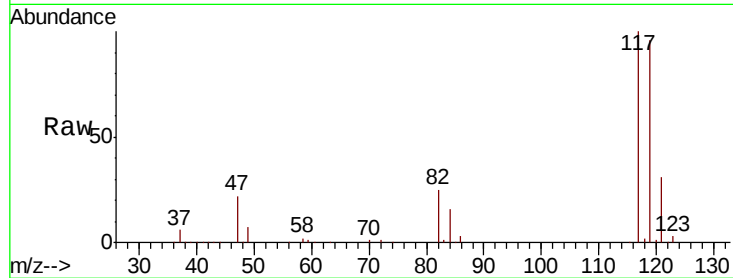
VSTD05041

Tgt Ion:117 Resp: 240743

Ion Ratio Lower Upper

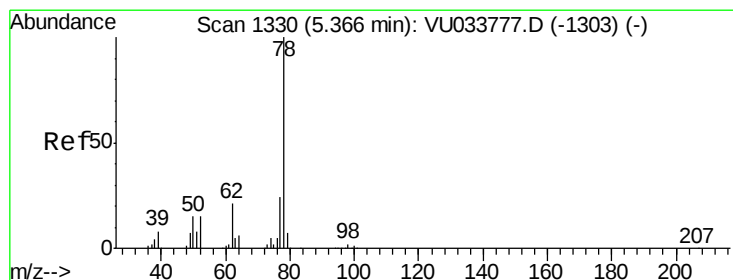
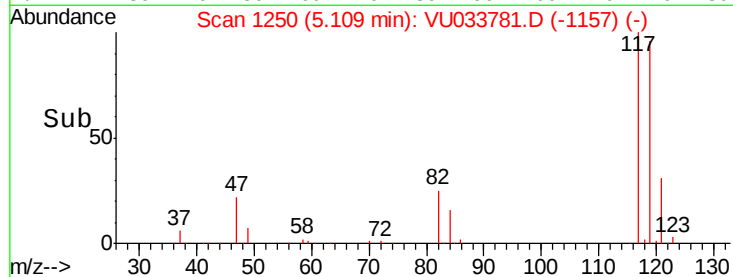
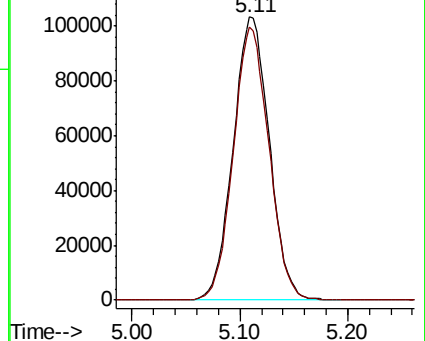
117 100

119 95.2 77.5 116.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 50.005 ug/L

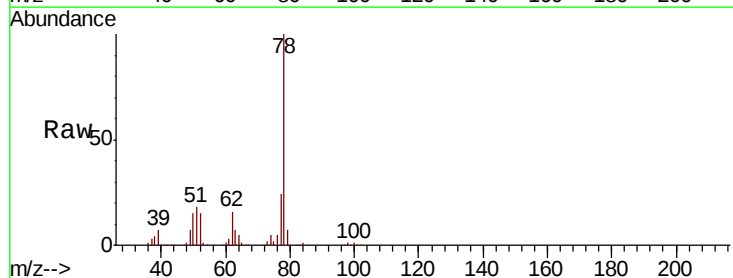
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

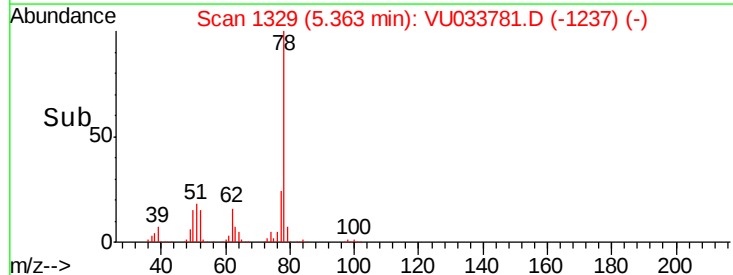
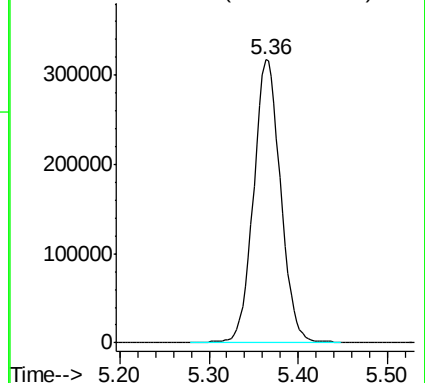
Lab File: VU033781.D

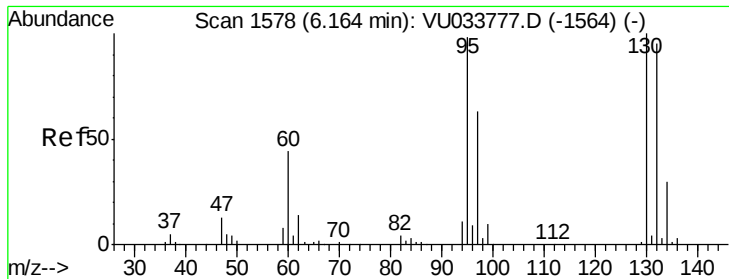
Acq: 13 Aug 2019 14:59

Tgt Ion: 78 Resp: 673046



Abundance Ion 78.00 (77.70 to 78.70): VU0

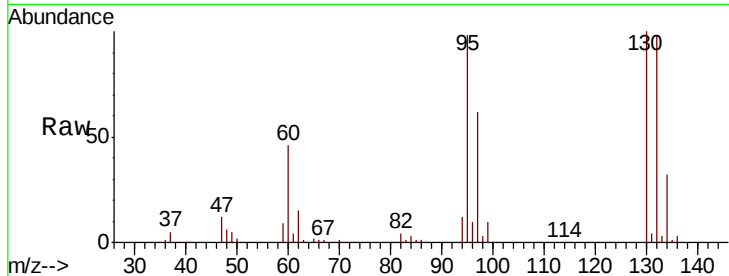




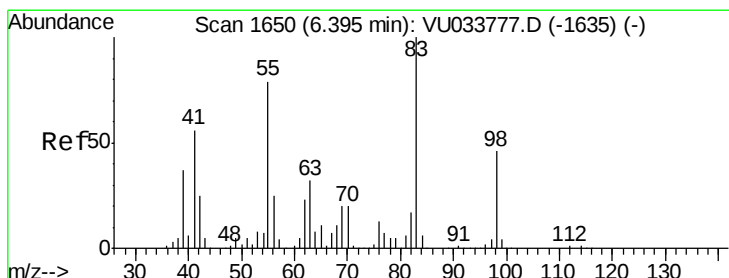
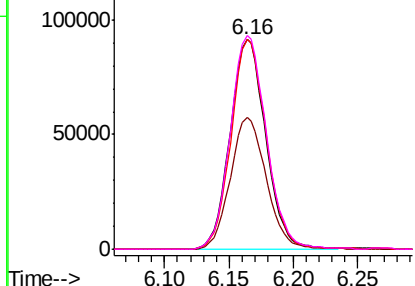
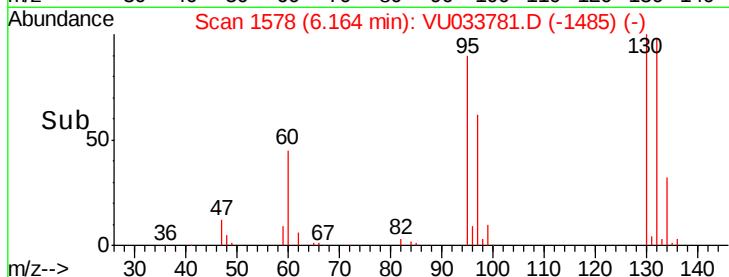
#34
 Trichloroethene
 Concen: 49.277 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033781.D
 Acq: 13 Aug 2019 14:59

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05041

Tgt Ion: 95 Resp: 175709
 Ion Ratio Lower Upper
 95 100
 97 62.9 45.1 83.7
 132 100.3 67.9 126.1
 130 101.9 71.6 133.0

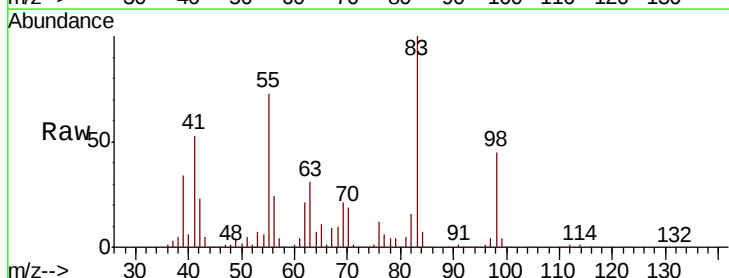


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

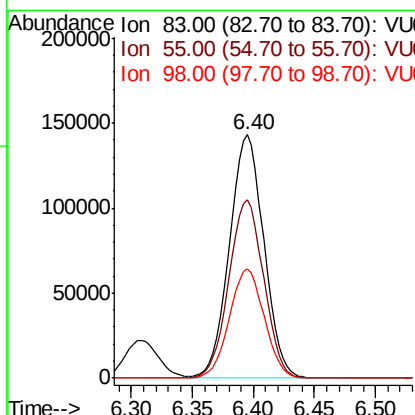
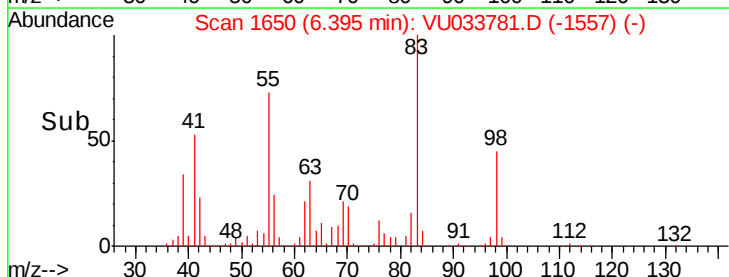


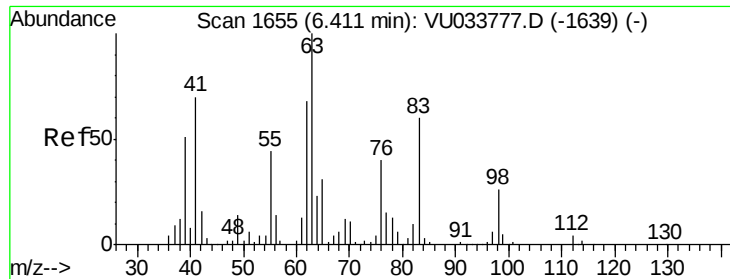
#35
 Methylcyclohexane
 Concen: 53.893 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033781.D
 Acq: 13 Aug 2019 14:59

Tgt Ion: 83 Resp: 280088
 Ion Ratio Lower Upper
 83 100
 55 74.4 62.2 93.4
 98 45.7 35.8 53.8



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

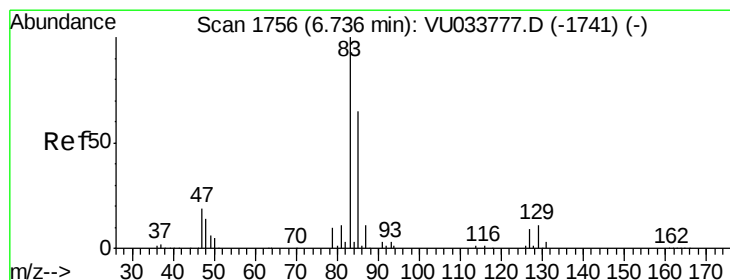
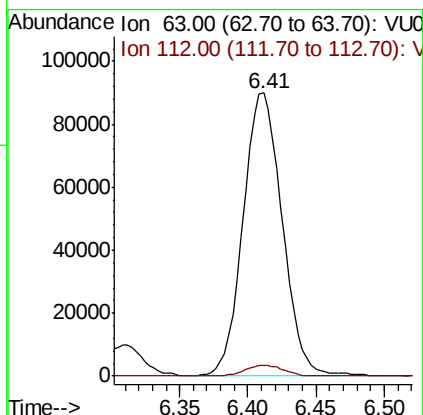
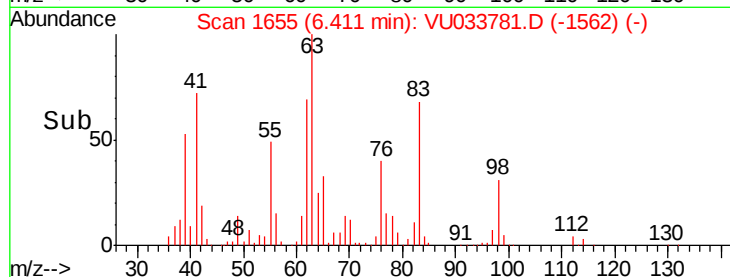
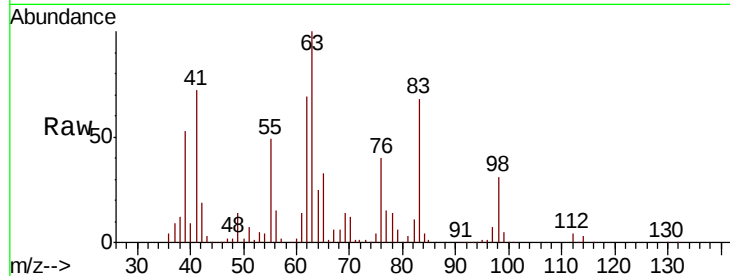




#37
 1,2-Dichloropropane
 Concen: 48.431 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033781.D
 Acq: 13 Aug 2019 14:59

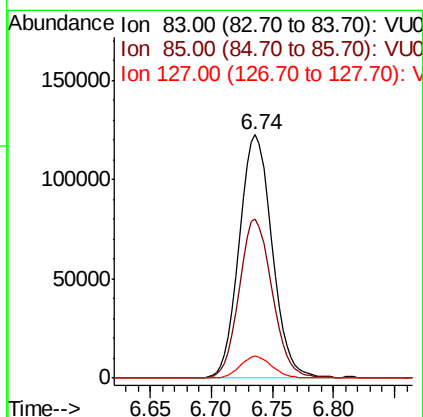
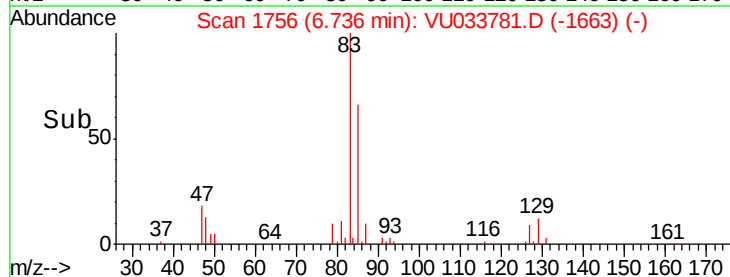
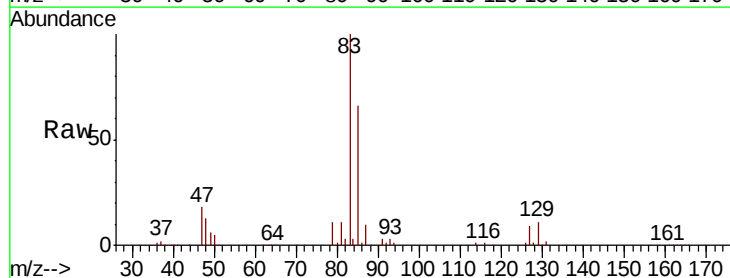
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

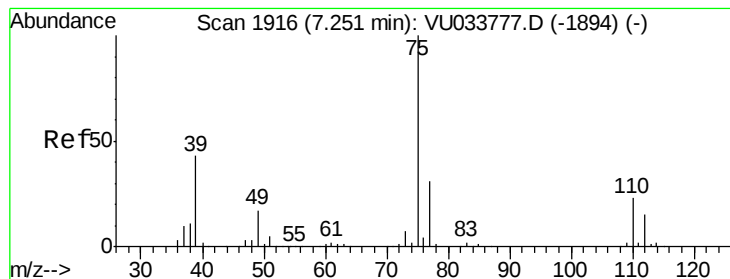
Tgt Ion: 63 Resp: 177622
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.6



#38
 Bromodichloromethane
 Concen: 48.236 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033781.D
 Acq: 13 Aug 2019 14:59

Tgt Ion: 83 Resp: 228269
 Ion Ratio Lower Upper
 83 100
 85 65.6 45.8 85.0
 127 9.2 7.4 11.0



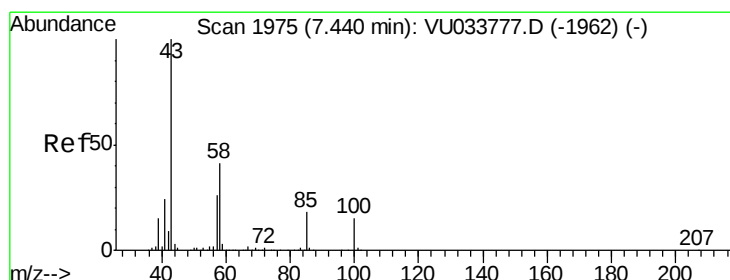
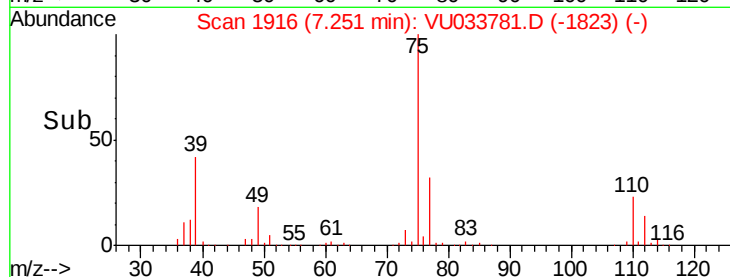
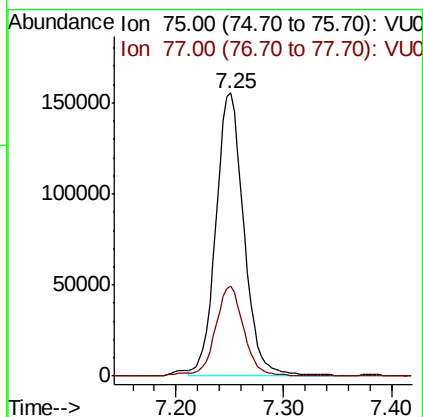
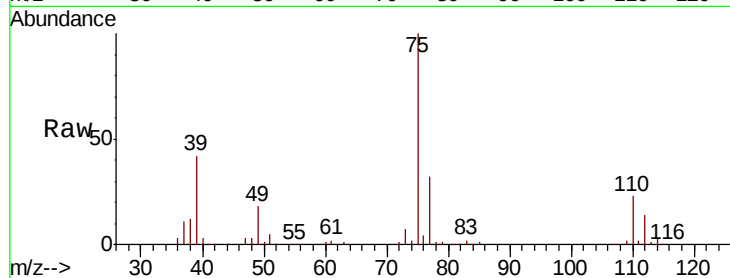


#39

cis-1,3-Dichloropropene
 Concen: 51.398 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU033781.D
 Acq: 13 Aug 2019 14:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

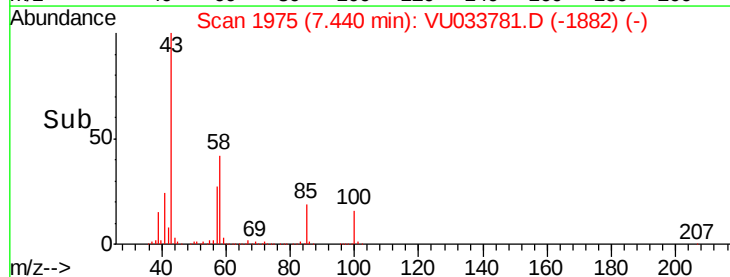
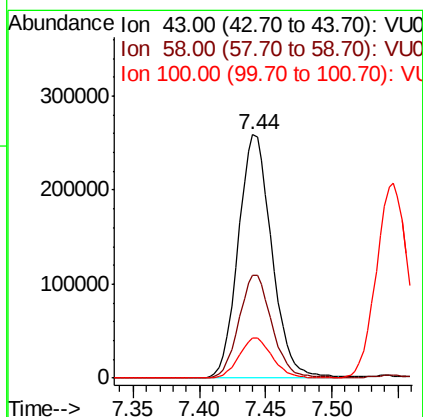
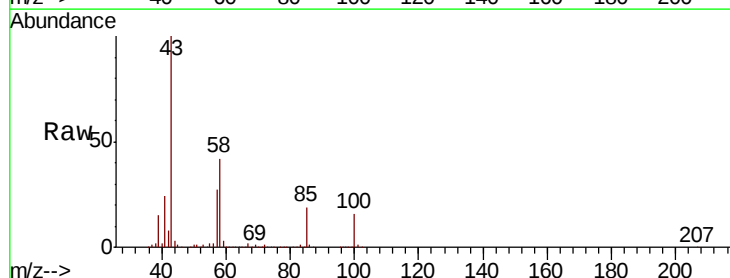
Tgt Ion: 75 Resp: 278256
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.0 40.8

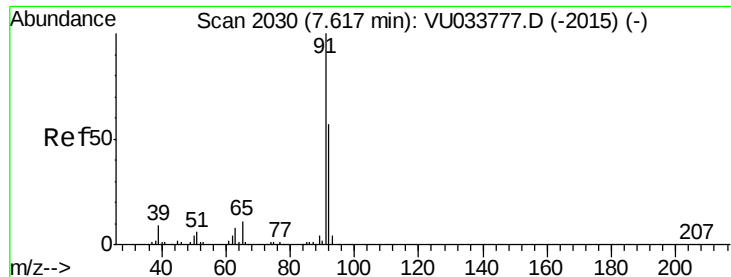


#40

4-Methyl-2-pentanone
 Concen: 99.894 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU033781.D
 Acq: 13 Aug 2019 14:59

Tgt Ion: 43 Resp: 455834
 Ion Ratio Lower Upper
 43 100
 58 41.9 32.5 48.7
 100 16.4 12.2 18.2





#42

Toluene

Concen: 51.164 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

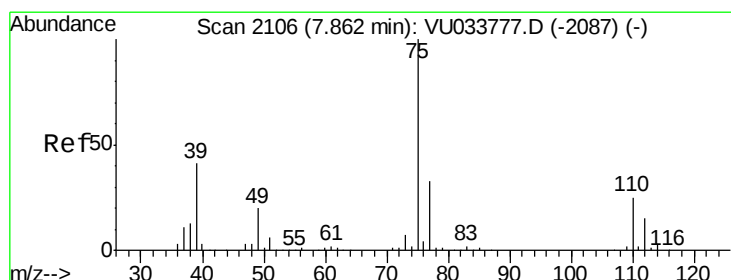
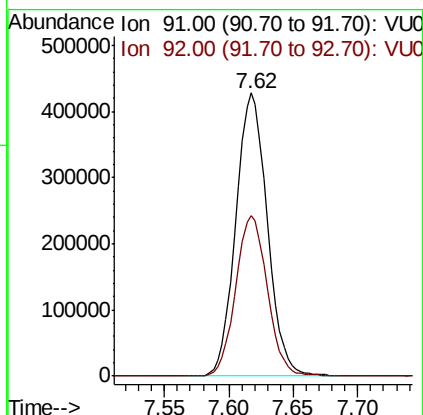
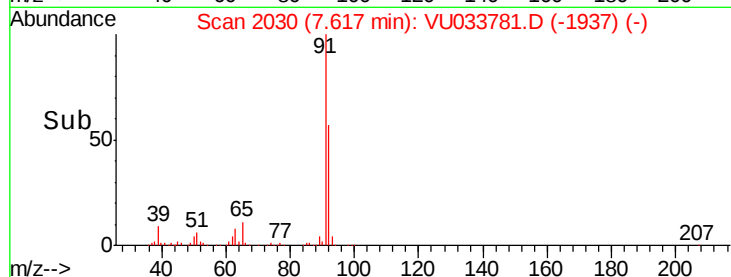
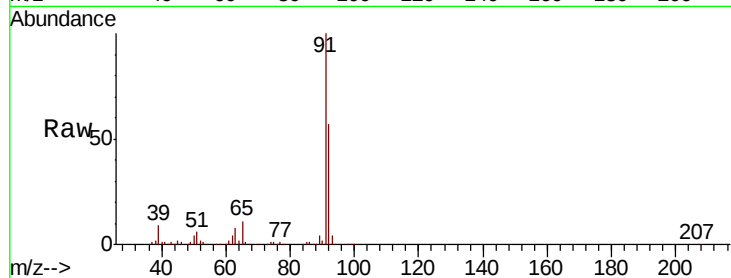
VSTD05041

Tgt Ion: 91 Resp: 727313

Ion Ratio Lower Upper

91 100

92 56.8 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 51.532 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033781.D

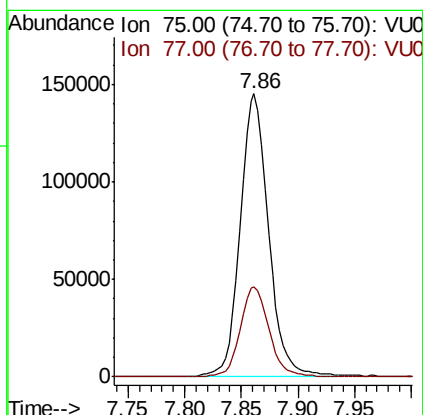
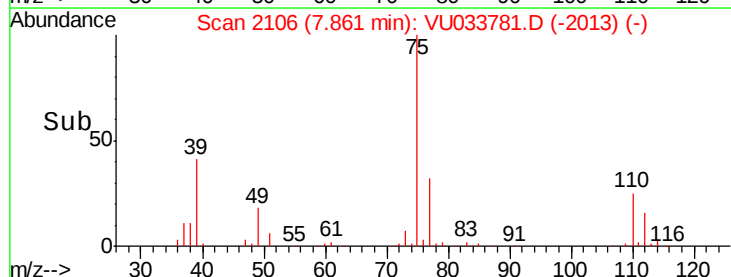
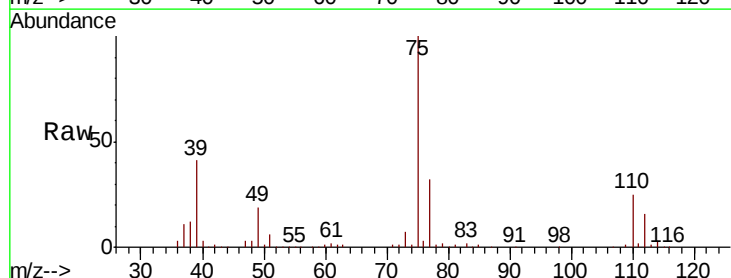
Acq: 13 Aug 2019 14:59

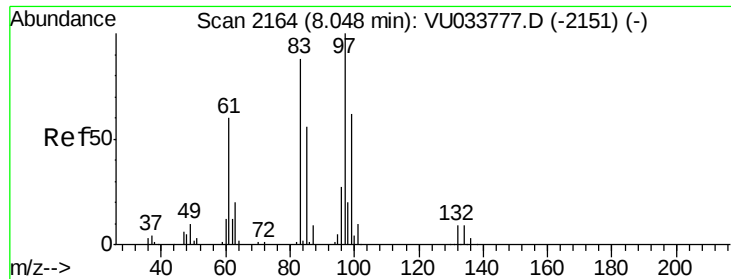
Tgt Ion: 75 Resp: 254113

Ion Ratio Lower Upper

75 100

77 31.8 22.7 42.3

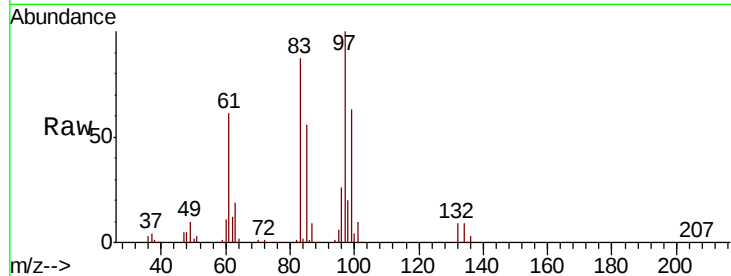




#45
 1,1,2-Trichloroethane
 Concen: 48.261 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033781.D
 Acq: 13 Aug 2019 14:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Tgt Ion:	97	Resp:	167046
Ion	Ratio	Lower	Upper
97	100		
99	62.8	43.5	80.9
83	87.5	61.8	114.8
85	56.0	39.1	72.7



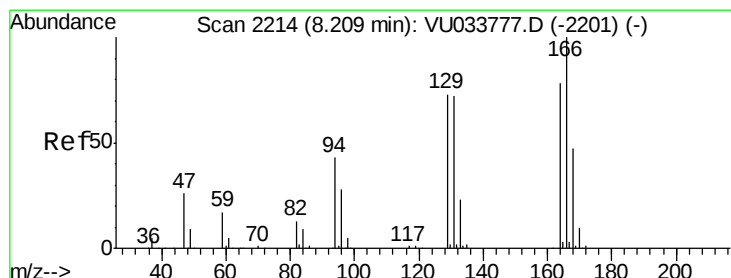
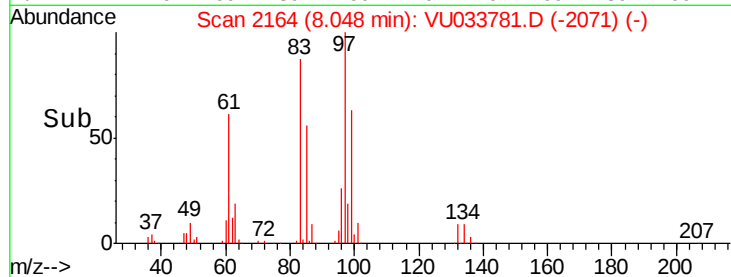
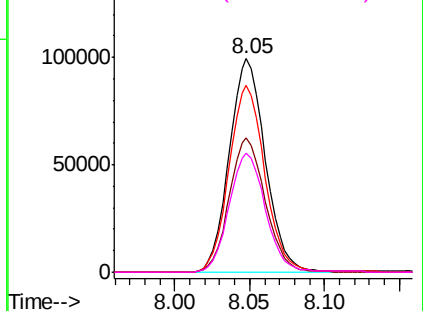
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

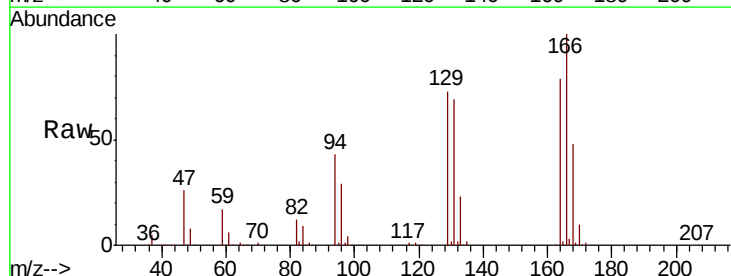
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 52.525 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033781.D
 Acq: 13 Aug 2019 14:59

Tgt Ion:	164	Resp:	146888
Ion	Ratio	Lower	Upper
164	100		
129	91.6	65.5	121.6
131	86.9	64.0	119.0
166	126.4	89.4	166.0



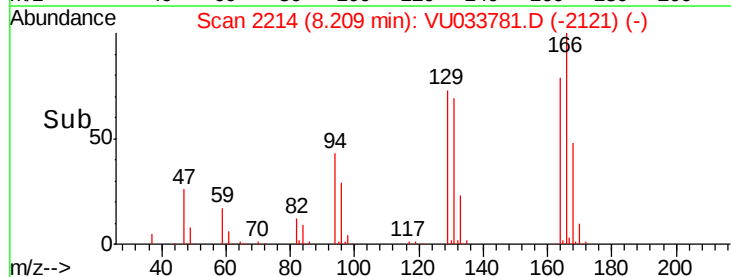
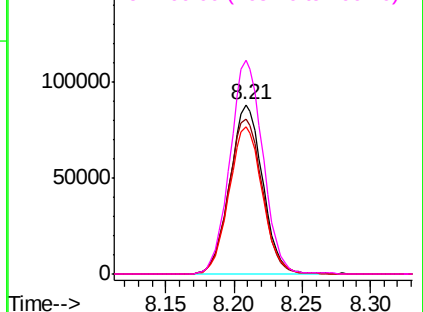
Abundance

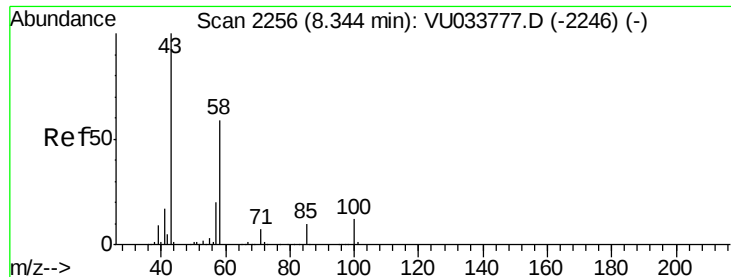
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

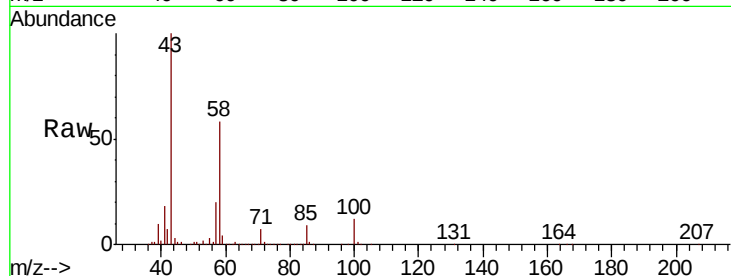




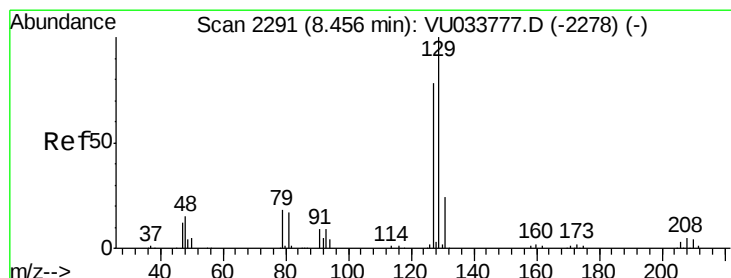
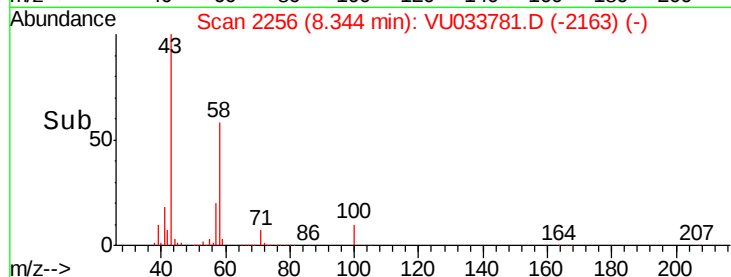
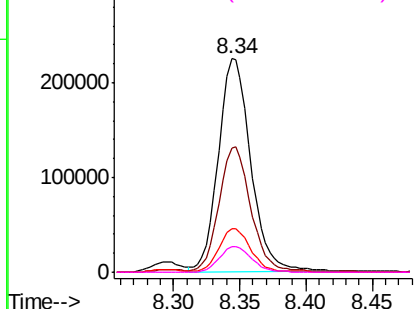
#48
2-Hexanone
Concen: 108.933 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU033781.D
Acq: 13 Aug 2019 14:59

Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

Tgt Ion:	43	Resp:	380487
Ion	Ratio	Lower	Upper
43	100		
58	57.8	45.4	68.0
57	19.5	15.4	23.0
100	12.2	9.4	14.2

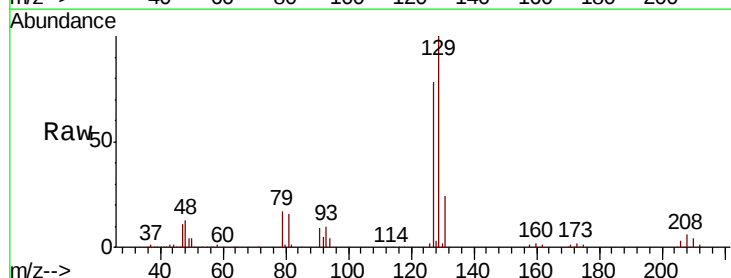


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

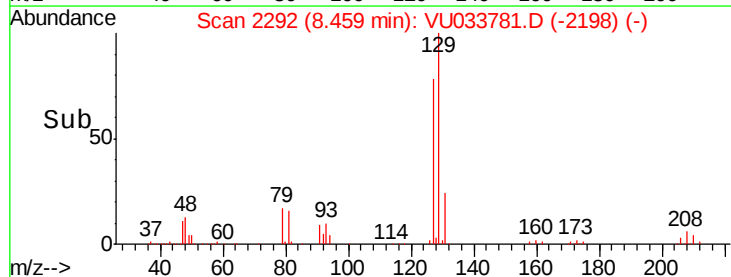
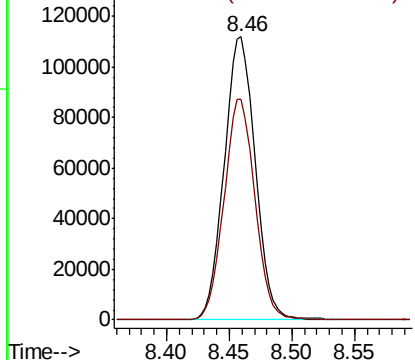


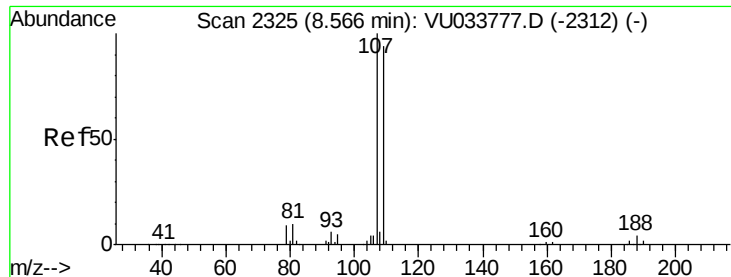
#49
Dibromochloromethane
Concen: 49.917 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033781.D
Acq: 13 Aug 2019 14:59

Tgt Ion:	129	Resp:	192894
Ion	Ratio	Lower	Upper
129	100		
127	77.9	54.4	101.0



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

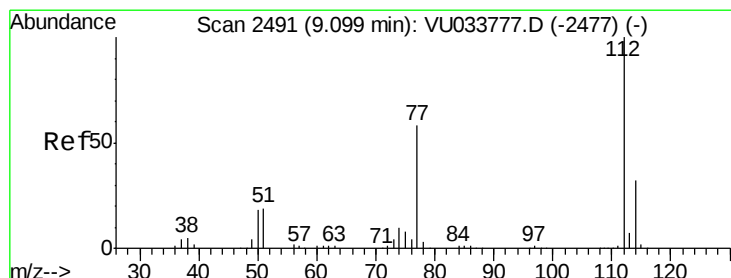
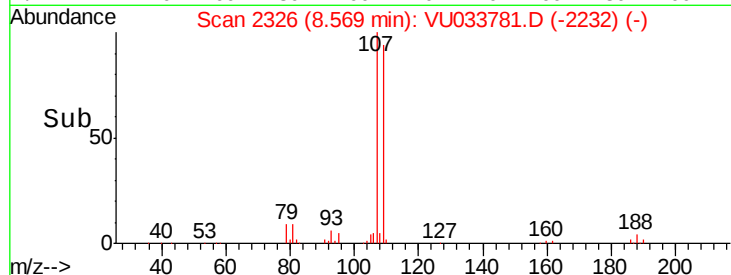
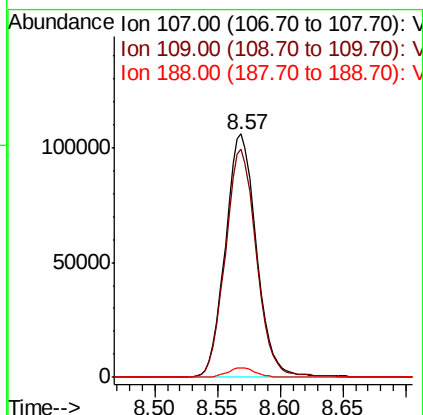
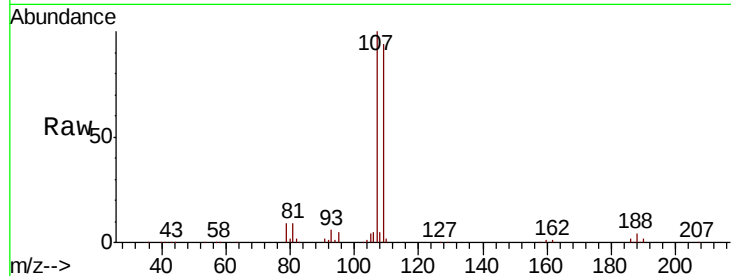




#50
1,2-Dibromoethane
Concen: 50.386 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033781.D
Acq: 13 Aug 2019 14:59

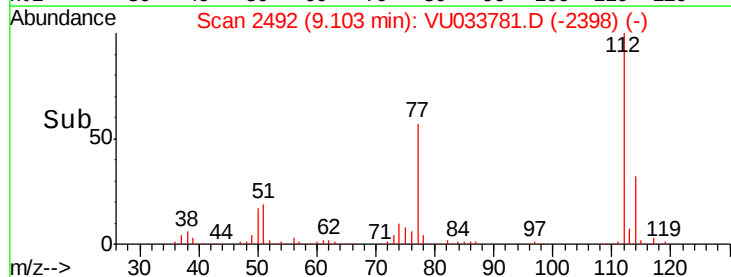
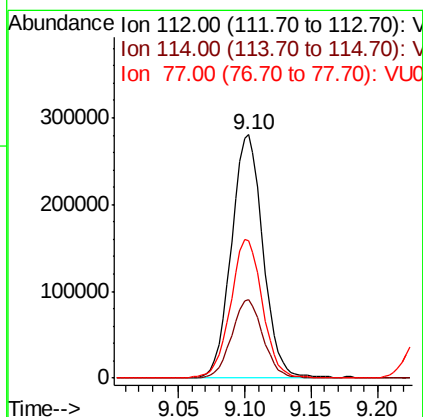
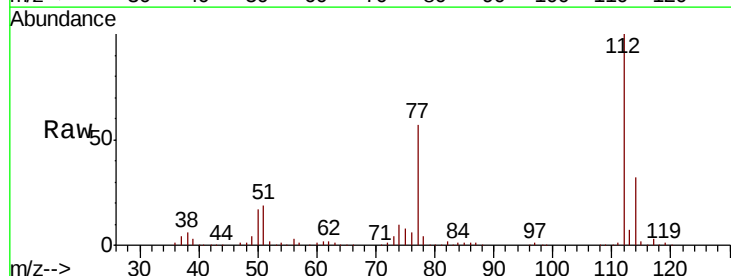
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

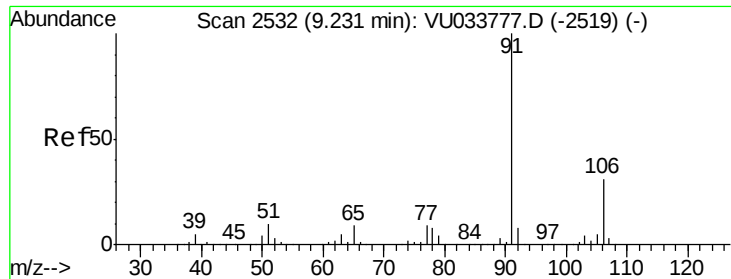
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.9	66.0	122.6
188	4.0	3.0	4.6



#51
Chlorobenzene
Concen: 50.259 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033781.D
Acq: 13 Aug 2019 14:59

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.4	41.6
77	56.6	46.2	69.4





#52

Ethylbenzene

Concen: 52.241 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampled :

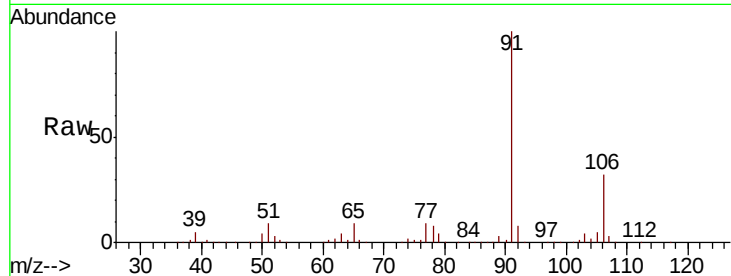
VSTD05041

Tgt Ion: 91 Resp: 781424

Ion Ratio Lower Upper

91 100

106 31.6 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VU033777.D (-2519) (-)

Ion 106.00 (105.70 to 106.70): VU033777.D (-2519) (-)

9.23

500000

400000

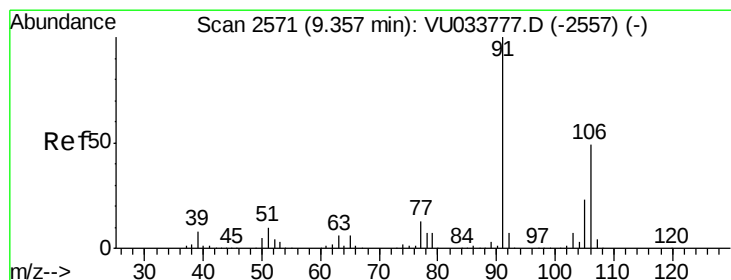
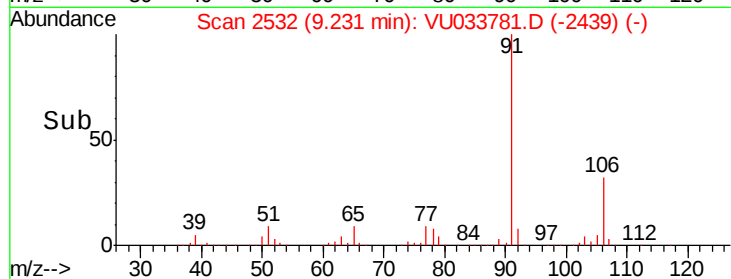
300000

200000

100000

0

Time-->



#53

m,p-Xylene

Concen: 53.581 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033781.D

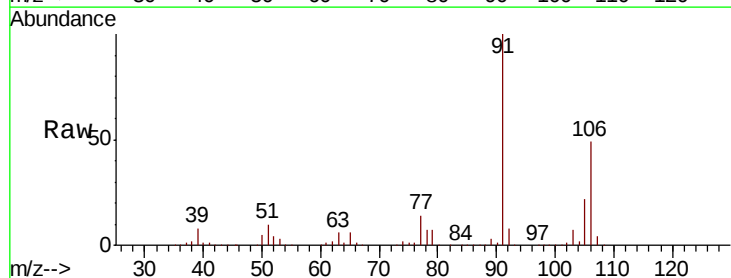
Acq: 13 Aug 2019 14:59

Tgt Ion: 106 Resp: 299599

Ion Ratio Lower Upper

106 100

91 205.0 142.1 263.9



Abundance Ion 106.00 (105.70 to 106.70): VU033777.D (-2557) (-)

Ion 91.00 (90.70 to 91.70): VU033777.D (-2557) (-)

9.36

400000

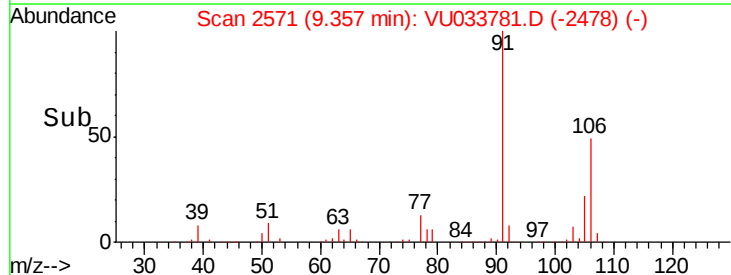
300000

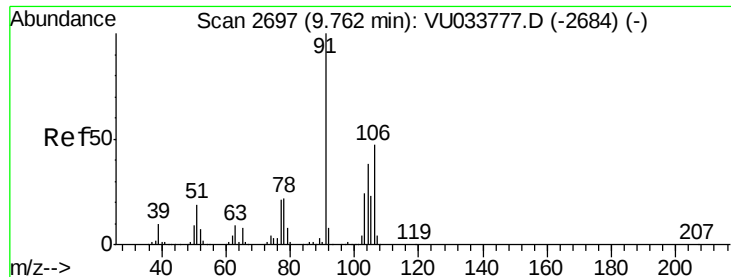
200000

100000

0

Time-->





#54

o-xylene

Concen: 53.355 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

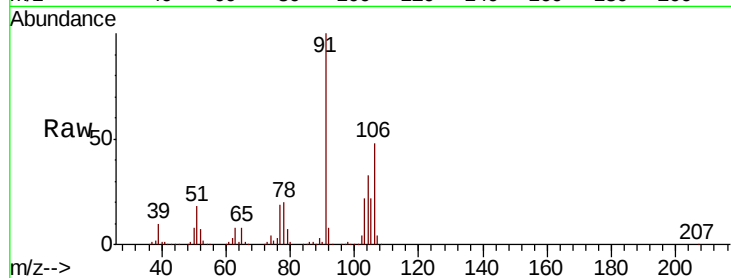
VSTD05041

Tgt Ion:106 Resp: 293499

Ion Ratio Lower Upper

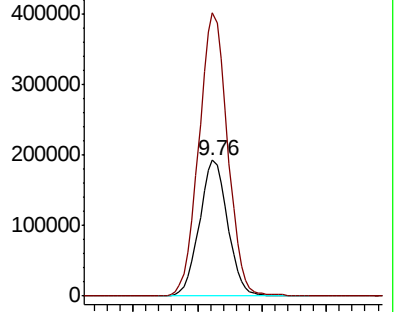
106 100

91 208.3 150.4 279.4

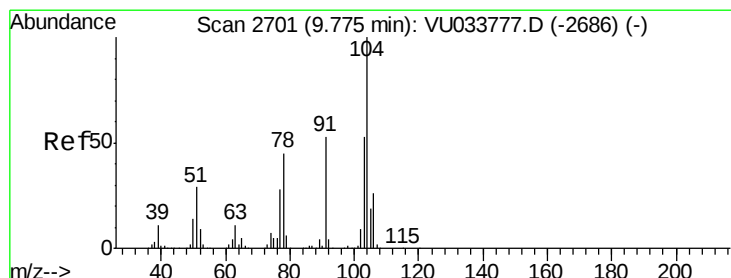
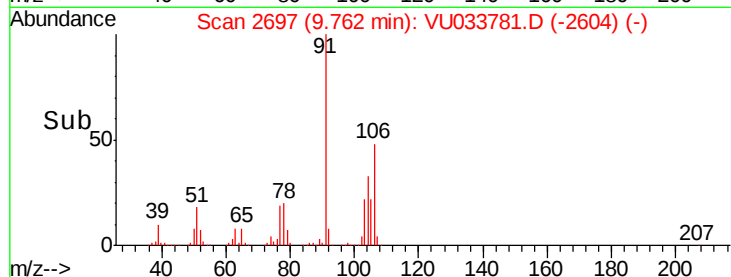


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



Time-->



#55

Styrene

Concen: 54.005 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033781.D

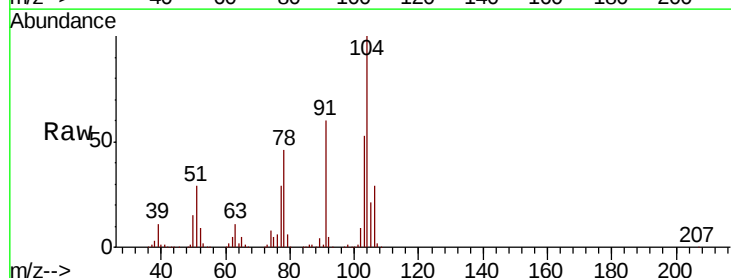
Acq: 13 Aug 2019 14:59

Tgt Ion:104 Resp: 504296

Ion Ratio Lower Upper

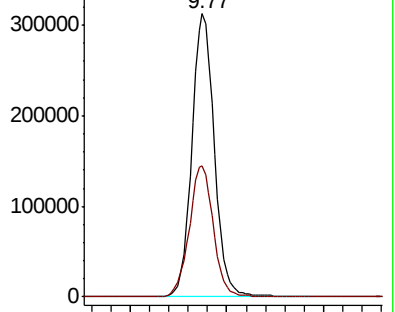
104 100

78 46.2 31.6 58.6

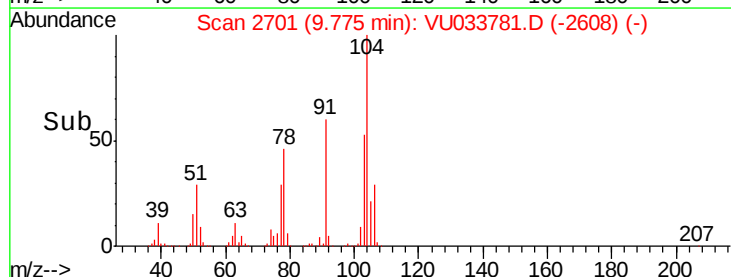


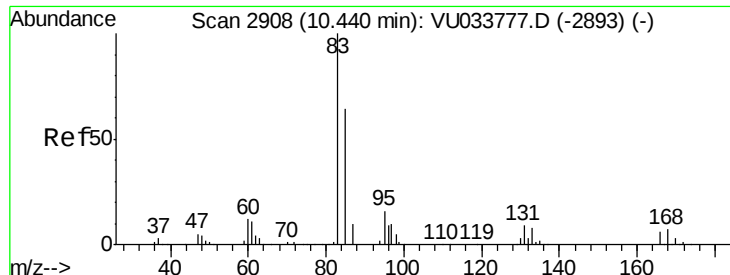
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



Time-->





#57

1,1,2,2-Tetrachloroethane

Concen: 47.976 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

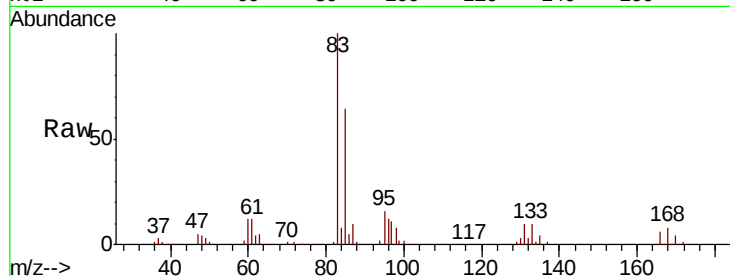
Tgt Ion: 83 Resp: 277740

Ion Ratio Lower Upper

83 100

85 64.4 44.7 83.1

131 9.8 7.8 11.6

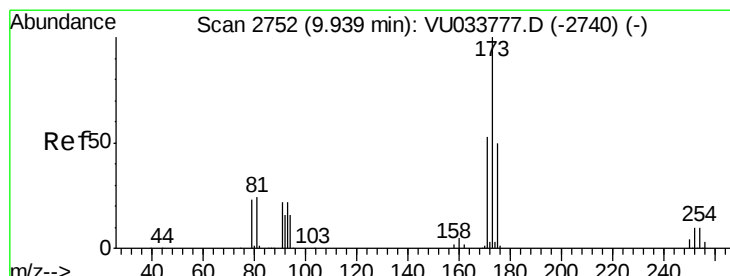
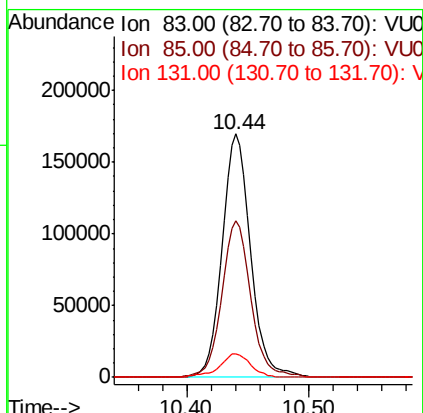
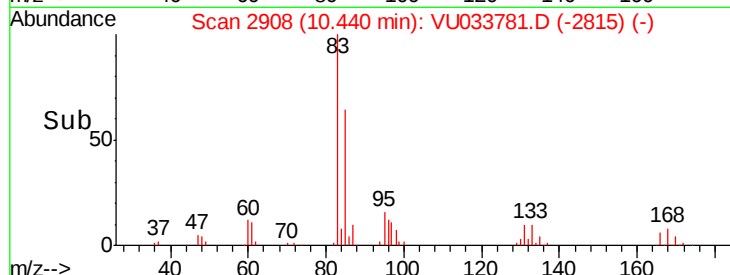


Abundance Ion 83.00 (82.70 to 83.70): VU033777.D (-2893) (-)

Ion 85.00 (84.70 to 85.70): VU033777.D (-2893) (-)

Ion 131.00 (130.70 to 131.70): VU033777.D (-2893) (-)

10.44



#59

Bromoform

Concen: 48.843 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

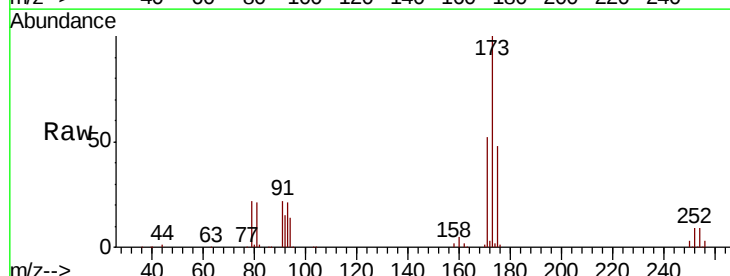
Tgt Ion: 173 Resp: 147274

Ion Ratio Lower Upper

173 100

175 48.7 38.9 58.3

254 9.2 7.4 11.0

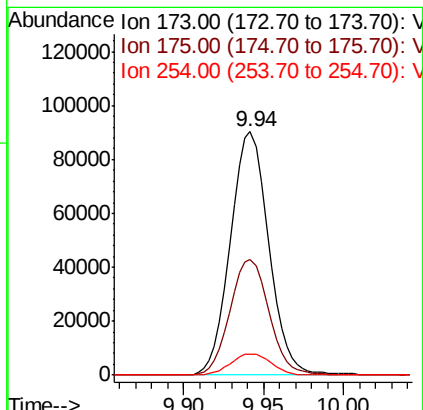
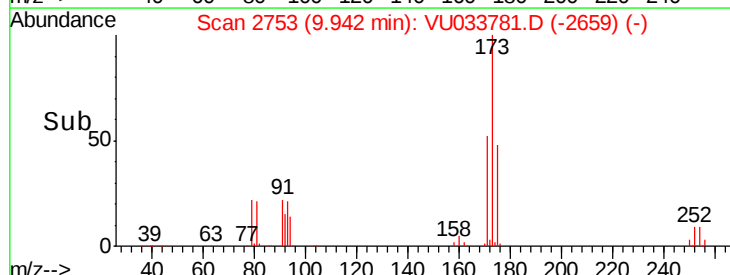


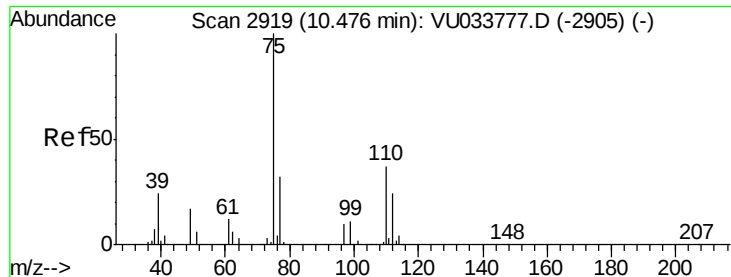
Abundance Ion 173.00 (172.70 to 173.70): VU033777.D (-2740) (-)

Ion 175.00 (174.70 to 175.70): VU033777.D (-2740) (-)

Ion 254.00 (253.70 to 254.70): VU033777.D (-2740) (-)

9.94





#60

1,2,3-Trichloropropane

Concen: 47.152 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

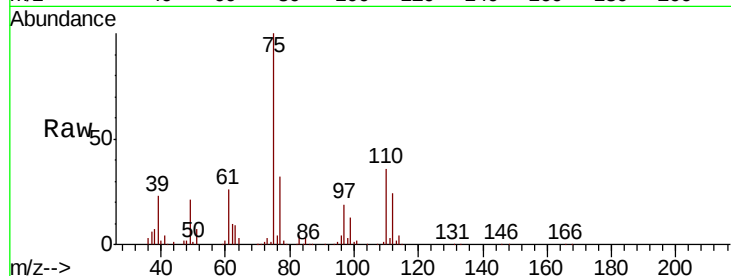
Tgt Ion: 75 Resp: 223917

Ion Ratio Lower Upper

75 100

77 32.3 25.6 38.4

110 36.6 29.7 44.5

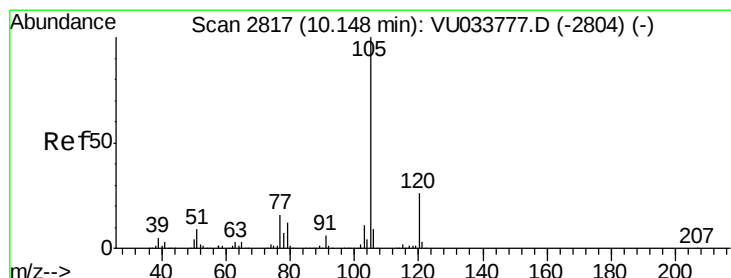
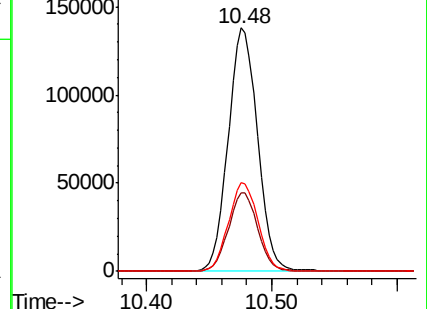
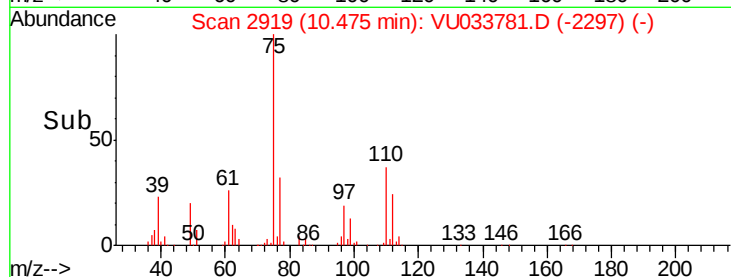


Abundance Ion 75.00 (74.70 to 75.70): VU033777.D (-2905) (-)

Ion 77.00 (76.70 to 77.70): VU033777.D (-2905) (-)

Ion 110.00 (109.70 to 110.70): VU033777.D (-2905) (-)

10.48



#61

Isopropylbenzene

Concen: 52.449 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

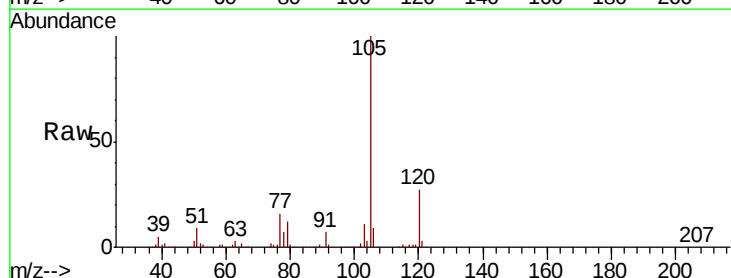
Tgt Ion: 105 Resp: 766347

Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.6

77 15.6 12.8 19.2

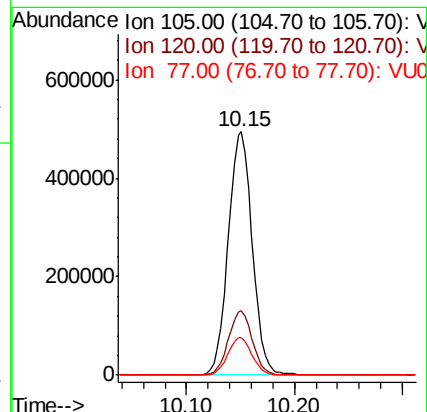
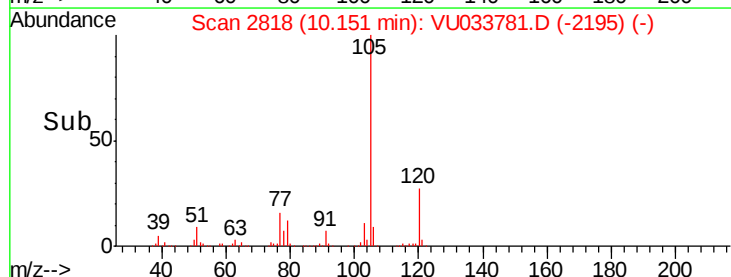


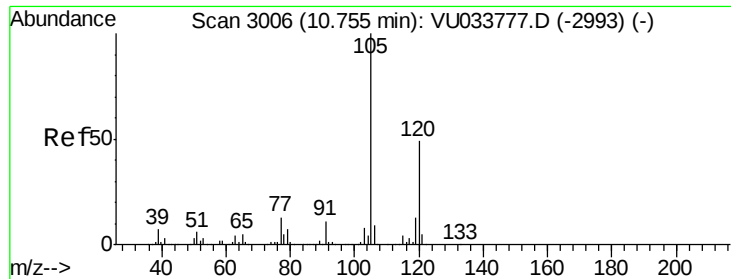
Abundance Ion 105.00 (104.70 to 105.70): VU033777.D (-2804) (-)

Ion 120.00 (119.70 to 120.70): VU033777.D (-2804) (-)

Ion 77.00 (76.70 to 77.70): VU033777.D (-2804) (-)

10.15





#62

1,3,5-Trimethylbenzene

Concen: 54.615 ug/L

RT: 10.76 min Scan# 3006

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

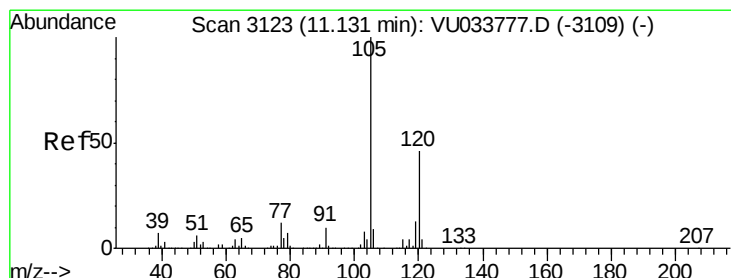
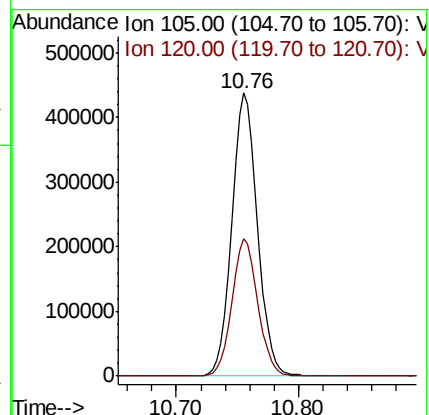
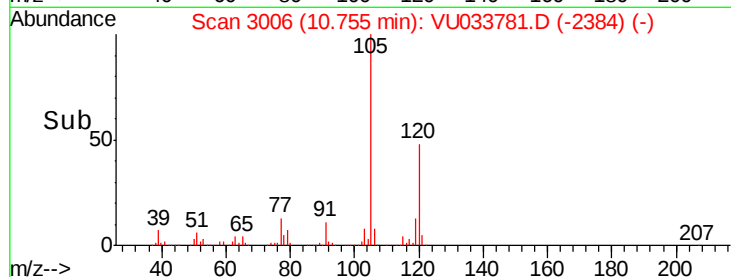
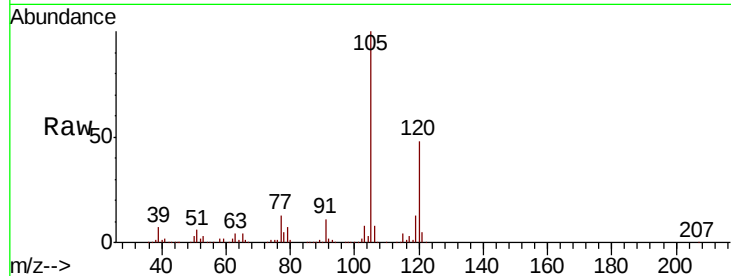
VSTD05041

Tgt Ion:105 Resp: 644220

Ion Ratio Lower Upper

105 100

120 48.9 39.4 59.2



#63

1,2,4-Trimethylbenzene

Concen: 55.358 ug/L

RT: 11.13 min Scan# 3123

Delta R.T. -0.00 min

Lab File: VU033781.D

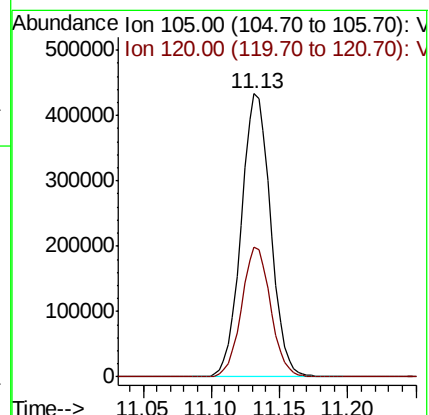
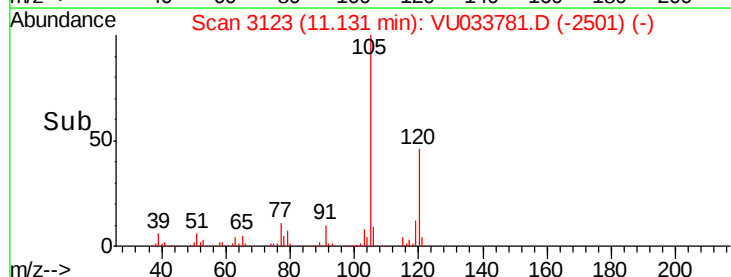
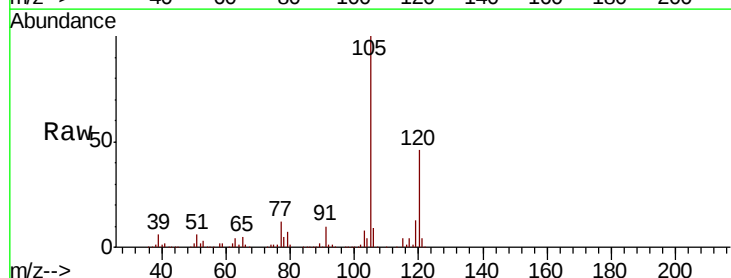
Acq: 13 Aug 2019 14:59

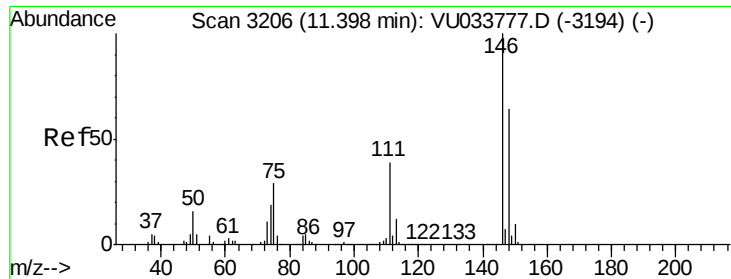
Tgt Ion:105 Resp: 647913

Ion Ratio Lower Upper

105 100

120 45.2 36.6 55.0





#64

1,3-Dichlorobenzene

Concen: 51.530 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

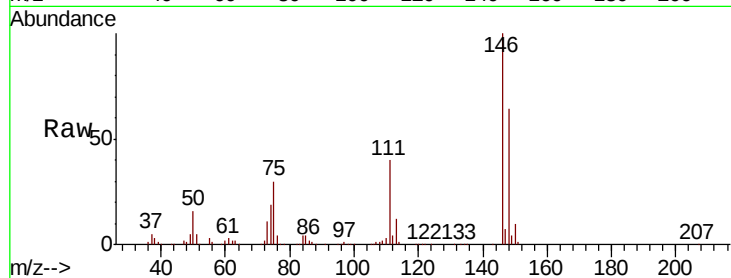
Tgt Ion:146 Resp: 377713

Ion Ratio Lower Upper

146 100

111 40.1 27.1 50.3

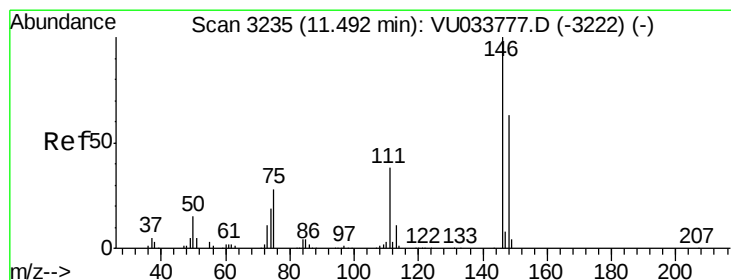
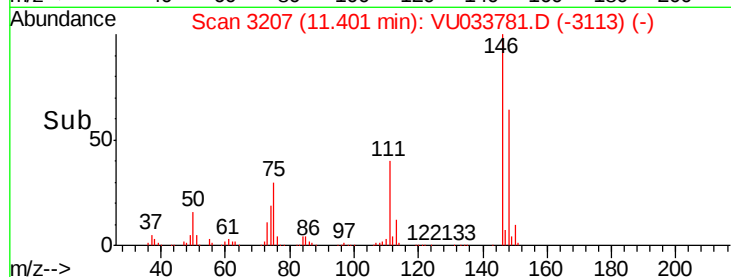
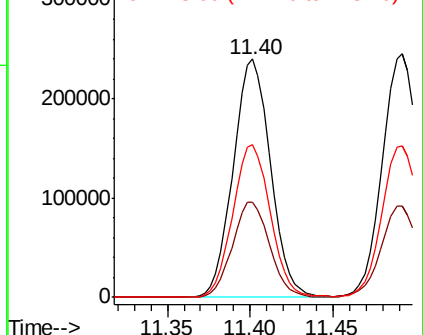
148 63.8 45.0 83.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 51.127 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

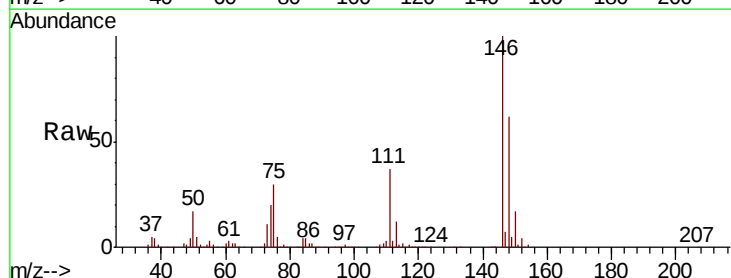
Tgt Ion:146 Resp: 384103

Ion Ratio Lower Upper

146 100

111 37.5 26.5 49.3

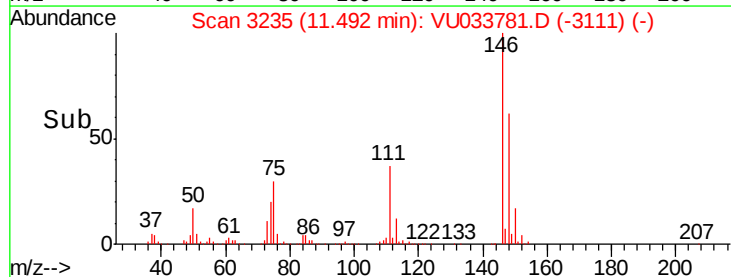
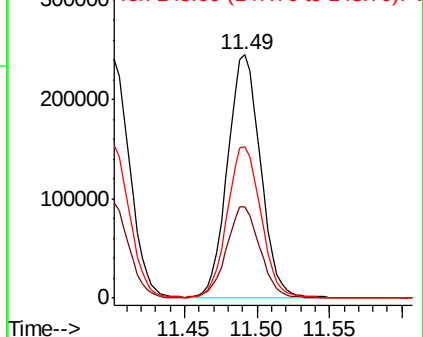
148 62.4 43.9 81.5

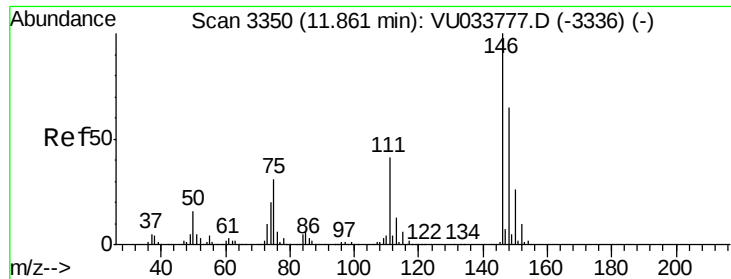


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

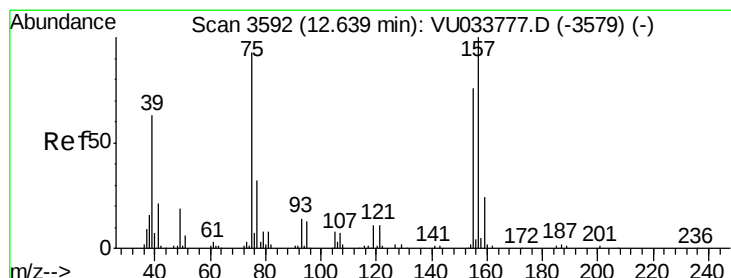
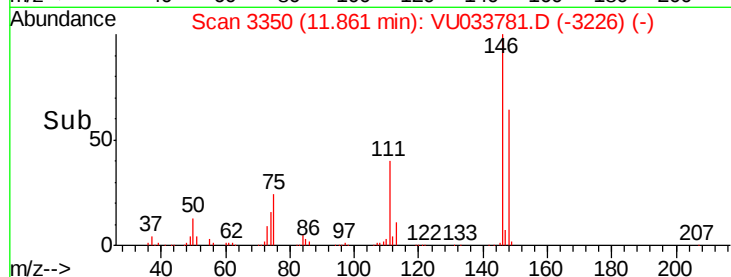
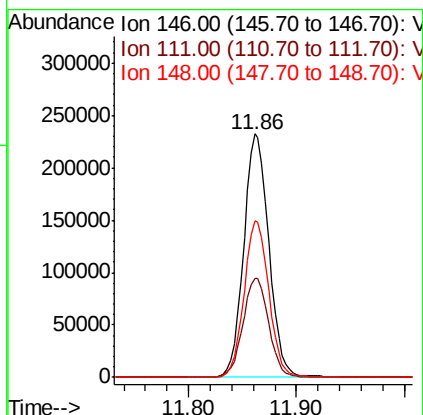
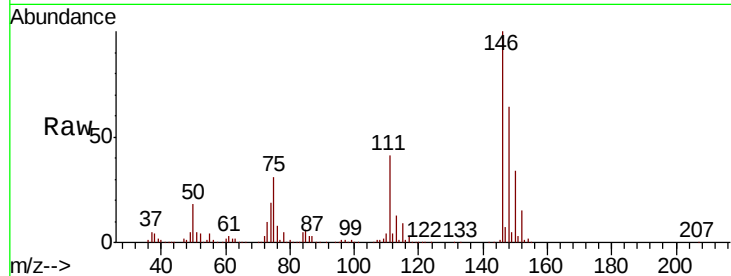




#67
 1,2-Dichlorobenzene
 Concen: 50.403 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033781.D
 Acq: 13 Aug 2019 14:59

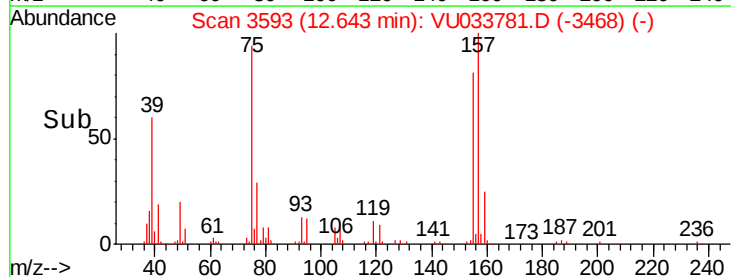
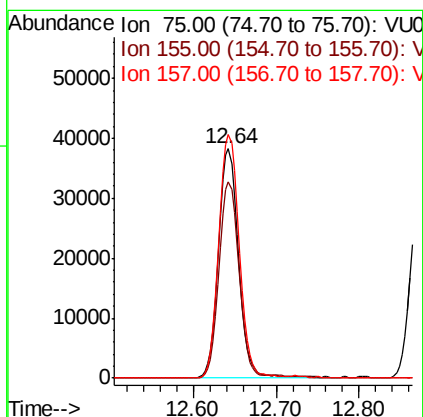
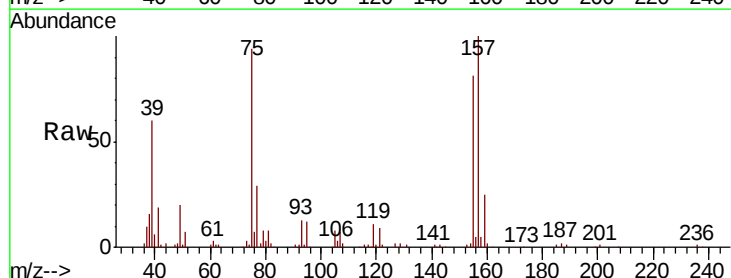
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

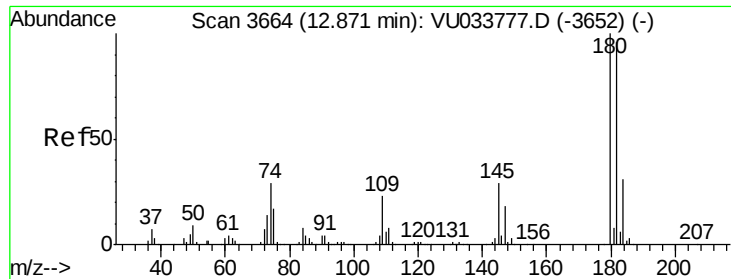
Tgt Ion: 146 Resp: 375435
 Ion Ratio Lower Upper
 146 100
 111 40.6 33.1 49.7
 148 64.3 51.8 77.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 48.592 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033781.D
 Acq: 13 Aug 2019 14:59

Tgt Ion: 75 Resp: 64353
 Ion Ratio Lower Upper
 75 100
 155 85.7 65.9 98.9
 157 106.1 86.3 129.5

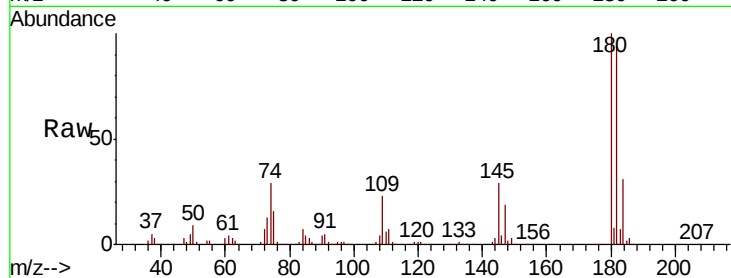




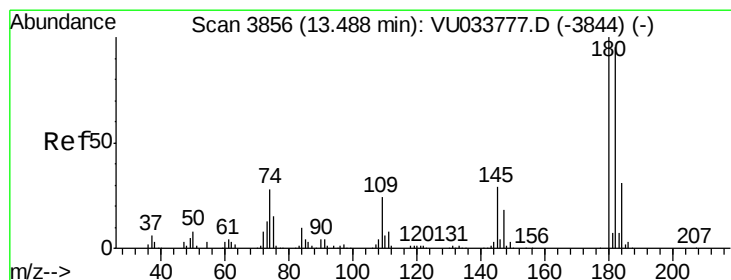
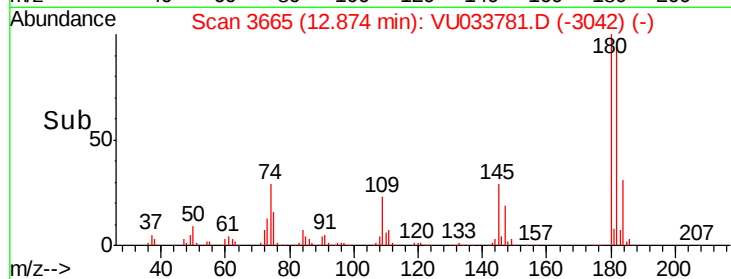
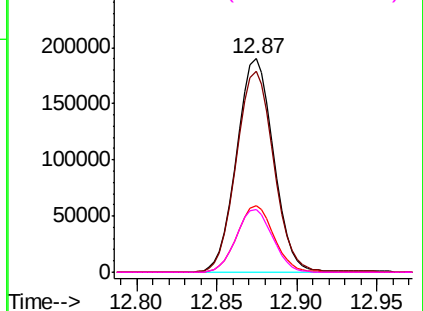
#69
 1,3,5-Trichlorobenzene
 Concen: 53.903 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033781.D
 Acq: 13 Aug 2019 14:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Tgt Ion:	180	Resp:	298445
Ion	Ratio	Lower	Upper
180	100		
182	95.6	77.2	115.8
184	31.2	24.5	36.7
145	29.1	23.4	35.0

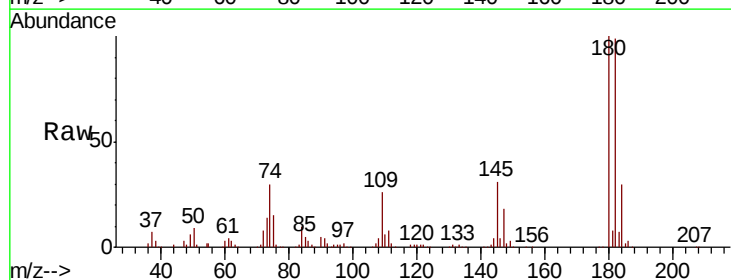


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

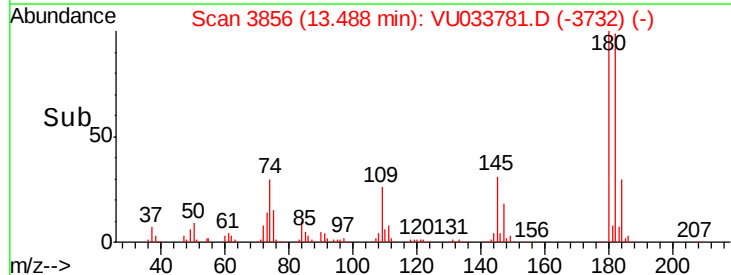
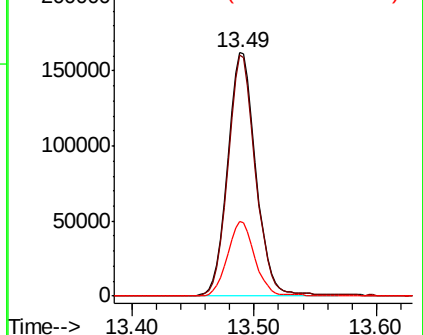


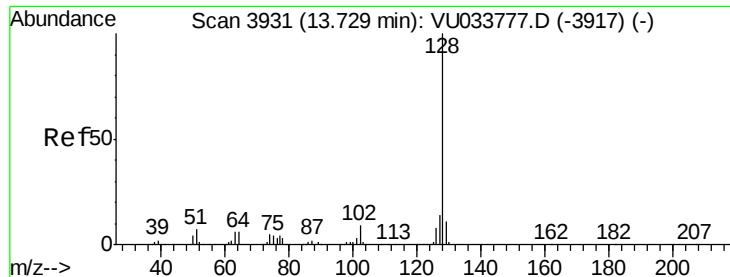
#70
 1,2,4-trichlorobenzene
 Concen: 57.373 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033781.D
 Acq: 13 Aug 2019 14:59

Tgt Ion:	180	Resp:	263462
Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.3	112.9
145	30.0	23.3	34.9



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





#71

Naphthalene

Concen: 58.841 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

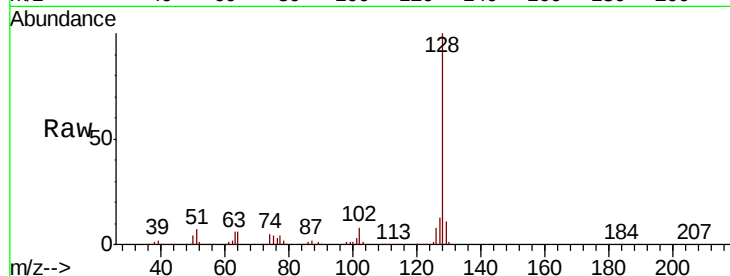
Tgt Ion:128 Resp: 804308

Ion Ratio Lower Upper

128 100

127 13.2 11.0 16.4

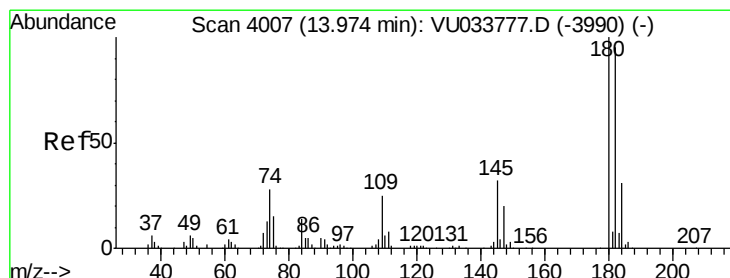
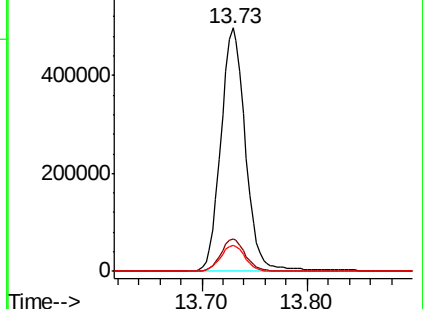
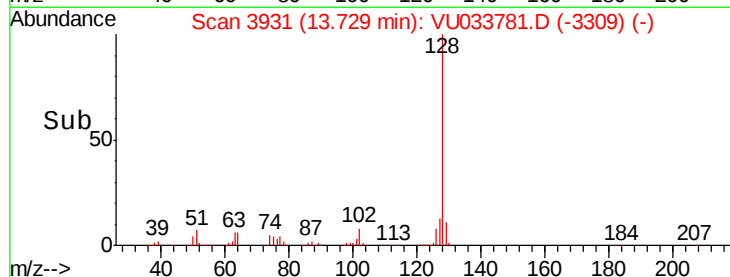
129 10.7 8.5 12.7



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



#72

1,2,3-Trichlorobenzene

Concen: 55.991 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033781.D

Acq: 13 Aug 2019 14:59

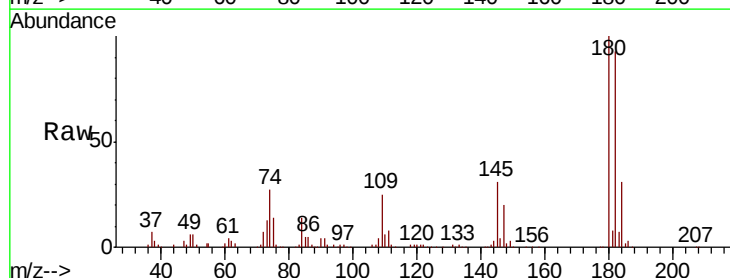
Tgt Ion:180 Resp: 269519

Ion Ratio Lower Upper

180 100

182 95.5 77.1 115.7

145 31.0 24.6 36.8



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

