

Data File : VU033213.D
Acq On : 12 Jul 2019 10:50
Operator : JC/SP
Sample : VSTD20036
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

Quant Time: Jul 12 23:32:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jul 12 23:28:24 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	337397	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	343649	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	185551	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	513974	220.44	ug/L	0.00
7) Chloroethane-d5	1.65	69	432895	229.24	ug/L	-0.02
11) 1,1-Dichloroethene-d2	2.25	63	950984	202.95	ug/L	0.00
21) 2-Butanone-d5	4.14	46	742243	403.34	ug/L	0.00
24) Chloroform-d	4.62	84	878819	200.17	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	547696	188.00	ug/L	0.00
32) Benzene-d6	5.31	84	1757487	201.52	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	553637	200.19	ug/L	0.00
41) Toluene-d8	7.55	98	1704216	207.98	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	292719	203.80	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	614017	474.53	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	875704	203.73	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	684904	196.02	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	643222	191.705	ug/L	99
3) Chloromethane	1.32	50	628408	202.717	ug/L	100
5) Vinyl chloride	1.39	62	733176	231.758	ug/L	100
6) Bromomethane	1.59	94	663721	359.064	ug/L	99
8) Chloroethane	1.67	64	438799	236.087	ug/L	97
9) Trichlorofluoromethane	1.86	101	959628	218.952	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	444021	196.279	ug/L	99
12) 1,1-Dichloroethene	2.26	96	442110	205.673	ug/L	98
13) Acetone	2.31	43	648303	260.245	ug/L	99
14) Carbon disulfide	2.45	76	1348440	201.148	ug/L	99
15) Methyl Acetate	2.59	43	545231	187.305	ug/L	100
16) Methylene chloride	2.68	84	503994	202.966	ug/L	95
17) trans-1,2-Dichloroethene	2.96	96	465325	203.216	ug/L	99
18) Methyl tert-butyl Ether	2.98	73	1498311	205.505	ug/L	99
19) 1,1-Dichloroethane	3.42	63	878313	201.843	ug/L	99
20) cis-1,2-Dichloroethene	4.19	96	537026	214.001	ug/L	99
22) 2-Butanone	4.23	43	898479	343.318	ug/L	99
23) Bromochloromethane	4.52	128	269098	207.276	ug/L	97
25) Chloroform	4.64	83	910776	201.786	ug/L	99
27) 1,2-Dichloroethane	5.38	62	725387	197.572	ug/L	99
29) Cyclohexane	4.97	56	796826	203.228	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	784479	192.340	ug/L	99
31) Carbon tetrachloride	5.11	117	704980	191.000	ug/L	100
33) Benzene	5.36	78	2003178	204.521	ug/L	100
34) Trichloroethene	6.16	95	518609	199.528	ug/L	98
35) Methylcyclohexane	6.40	83	852766	212.267	ug/L	98
37) 1,2-Dichloropropane	6.41	63	539132	201.493	ug/L	99
38) Bromodichloromethane	6.73	83	703094	196.546	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	896546	217.097	ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	1617741	389.113	ug/L	99

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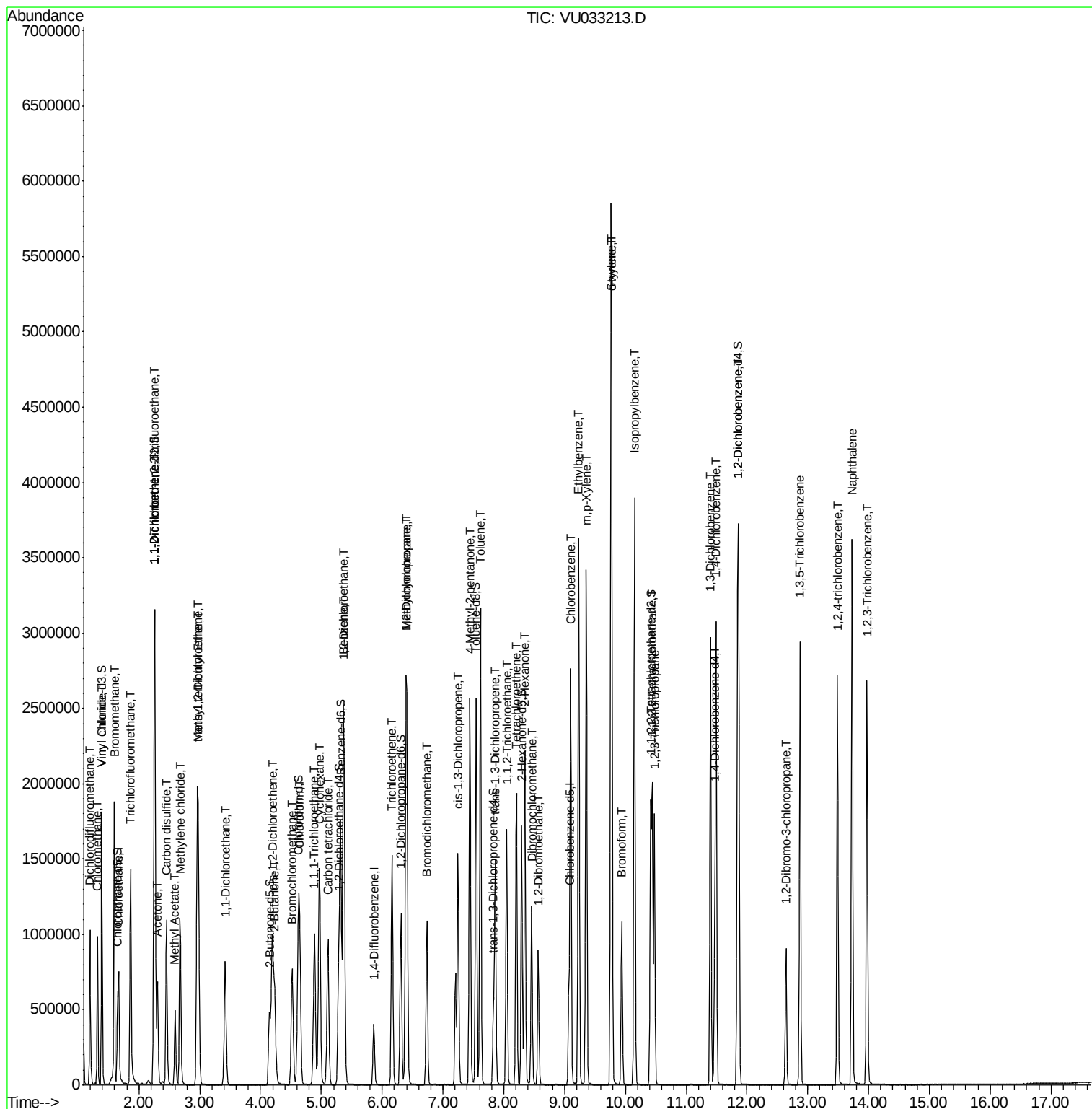
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	2233968	210.777	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	810605	208.413	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	511610	205.018	ug/L	99
46) Tetrachloroethene	8.21	164	412688	195.610	ug/L	99
48) 2-Hexanone	8.35	43	1312990	362.905	ug/L	100
49) Dibromochloromethane	8.46	129	601255	202.827	ug/L	100
50) 1,2-Dibromoethane	8.57	107	573352	207.160	ug/L	99
51) Chlorobenzene	9.10	112	1429352	205.277	ug/L	99
52) Ethylbenzene	9.23	91	2511913	214.782	ug/L	99
53) m,p-Xylene	9.36	106	954534	215.933	ug/L	100
54) o-xylene	9.76	106	958846	221.641	ug/L	99
55) Styrene	9.77	104	1673074	223.634	ug/L	99
56) Isopropylbenzene	10.15	105	2498197	215.823	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	932182	206.061	ug/L	100
59) 1,2,3-Trichloropropane	10.48	75	726557	203.763	ug/L	99
61) Bromoform	9.94	173	481215	204.576	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	1161323	204.523	ug/L	100
63) 1,4-Dichlorobenzene	11.49	146	1175020	199.851	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	1171843	201.653	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	223641	203.394	ug/L	92
67) 1,3,5-Trichlorobenzene	12.87	180	871897	193.393	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	808244	209.967	ug/L	100
69) Naphthalene	13.73	128	2776429	231.738	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	822396	201.269	ug/L	98

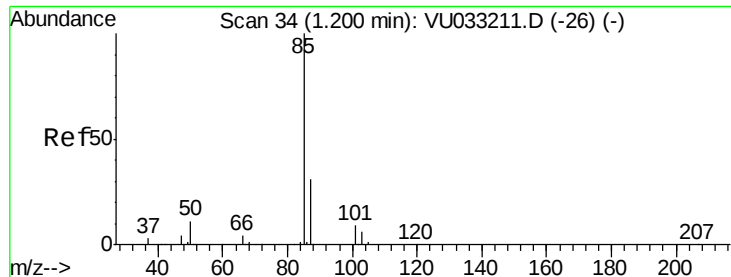
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 191.705 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

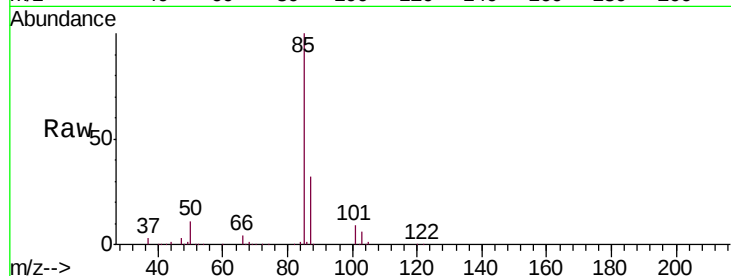
VSTD20036

Tgt Ion: 85 Resp: 643222

Ion Ratio Lower Upper

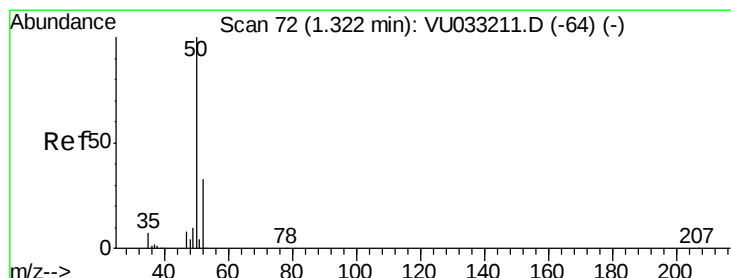
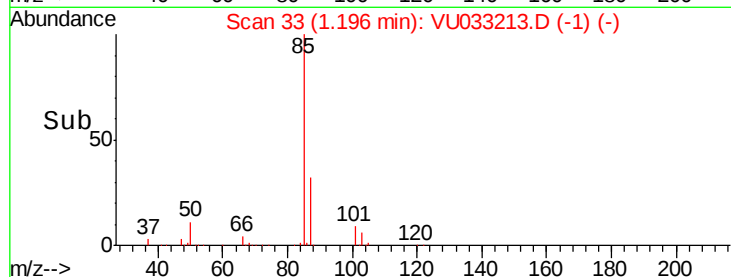
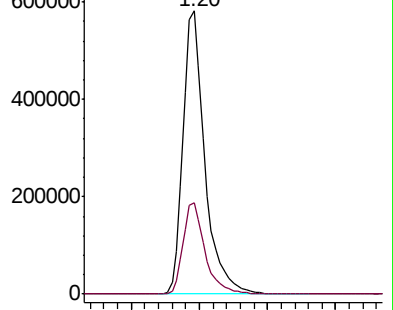
85 100

87 32.5 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033213.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033213.D (-26) (-)



#3

Chloromethane

Concen: 202.717 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033213.D

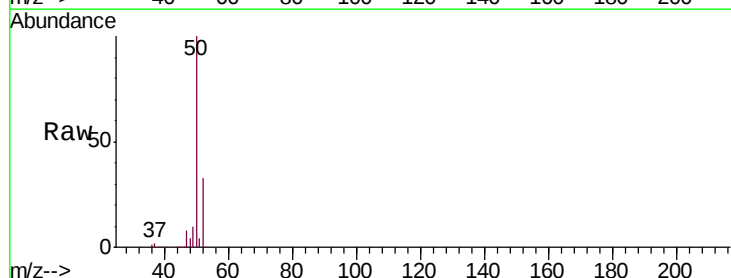
Acq: 12 Jul 2019 10:50

Tgt Ion: 50 Resp: 628408

Ion Ratio Lower Upper

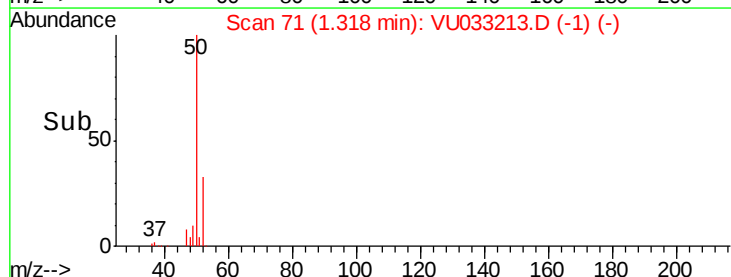
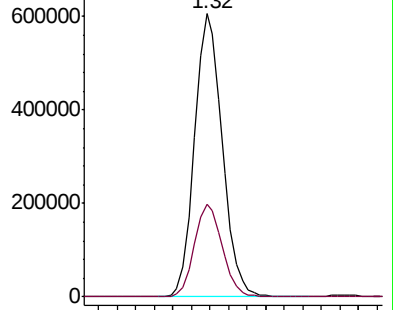
50 100

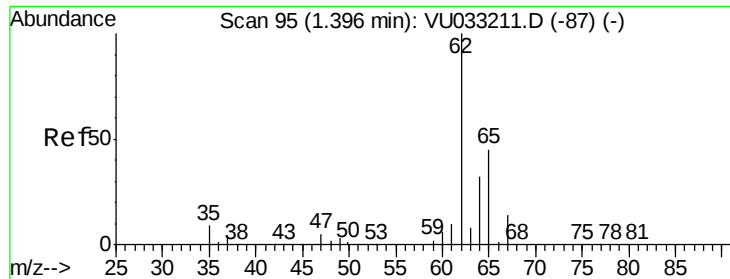
52 32.9 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU033213.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033213.D (-1) (-)





#5

Vinyl chloride

Concen: 231.758 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

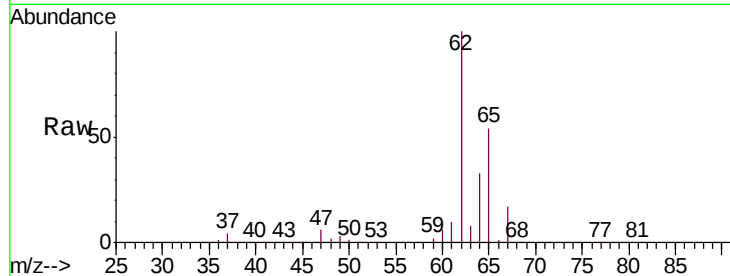
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

Tgt Ion: 62 Resp: 733176

Ion Ratio Lower Upper

62 100

64 32.7 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU033213.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033213.D (-87) (-)

1.39

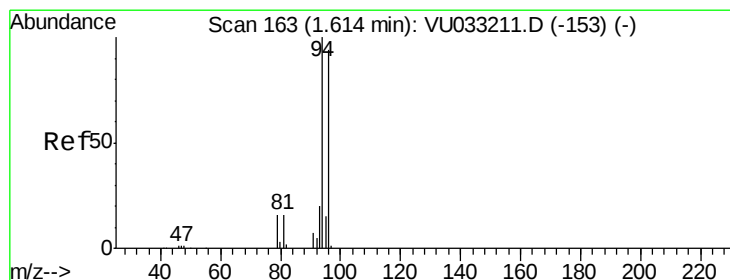
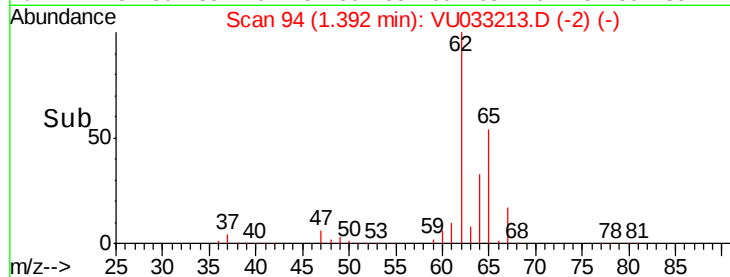
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 359.064 ug/L

RT: 1.59 min Scan# 157

Delta R.T. -0.02 min

Lab File: VU033213.D

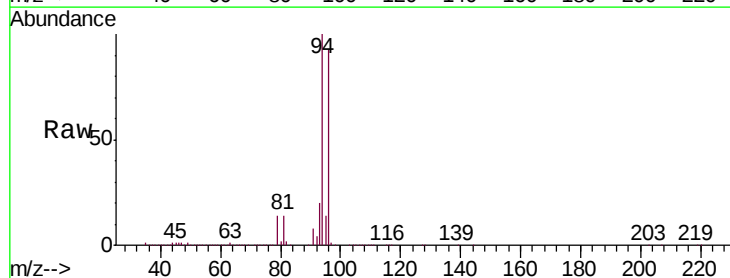
Acq: 12 Jul 2019 10:50

Tgt Ion: 94 Resp: 663721

Ion Ratio Lower Upper

94 100

96 93.0 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VU033213.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU033213.D (-153) (-)

1.59

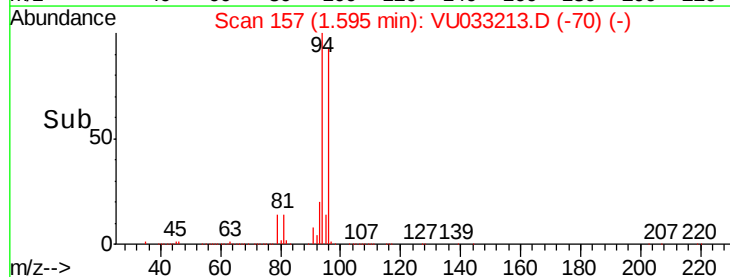
600000

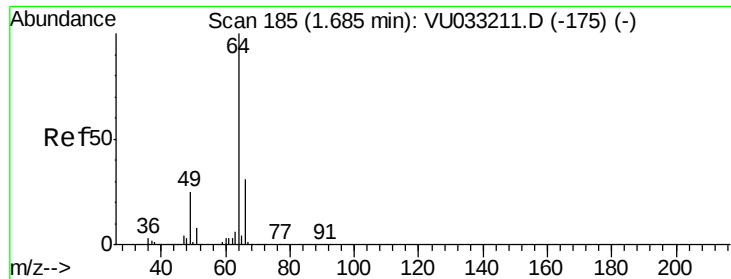
400000

200000

0

Time-->





#8

Chloroethane

Concen: 236.087 ug/L

RT: 1.67 min Scan# 180

Delta R.T. -0.02 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

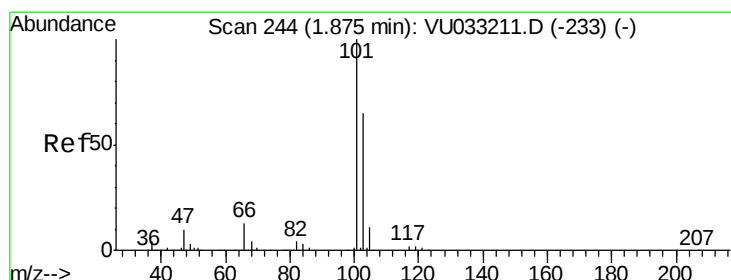
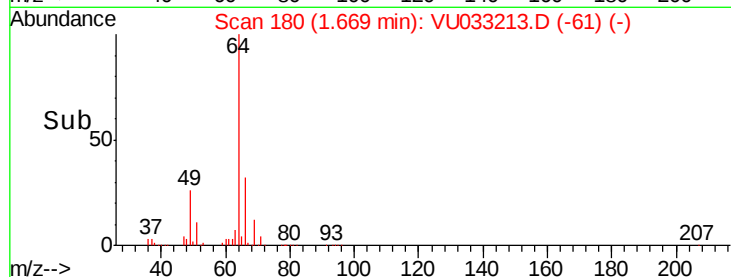
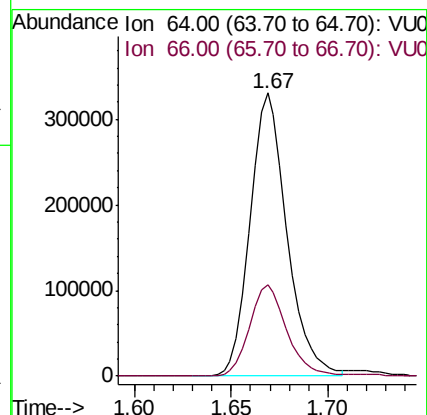
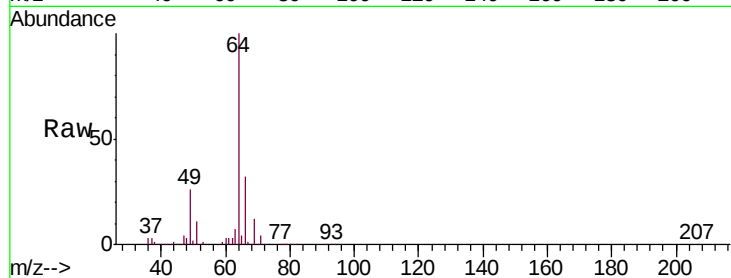
VSTD20036

Tgt Ion: 64 Resp: 438799

Ion Ratio Lower Upper

64 100

66 32.4 21.6 40.0



#9

Trichlorofluoromethane

Concen: 218.952 ug/L

RT: 1.86 min Scan# 240

Delta R.T. -0.01 min

Lab File: VU033213.D

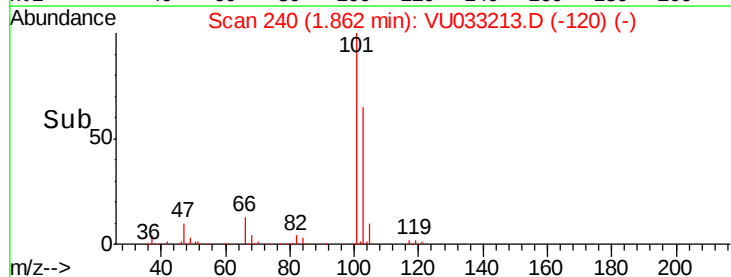
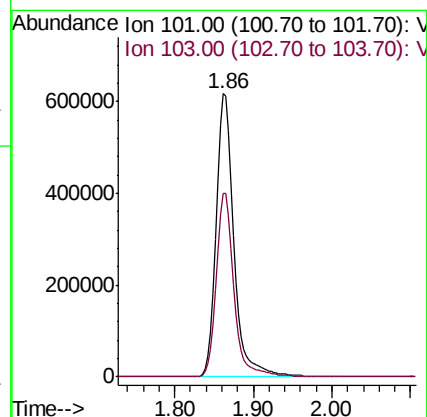
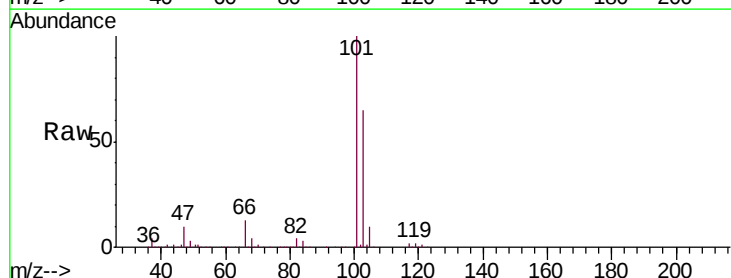
Acq: 12 Jul 2019 10:50

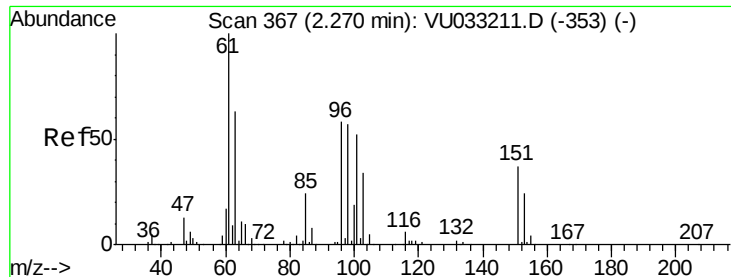
Tgt Ion: 101 Resp: 959628

Ion Ratio Lower Upper

101 100

103 64.5 52.2 78.4





#10

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

Concen: 196.279 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.01 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

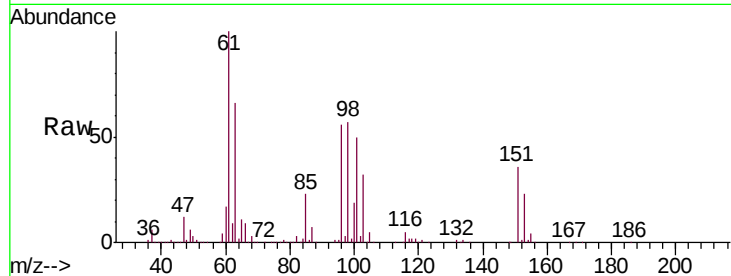
Tgt Ion: 101 Resp: 444021

Ion Ratio Lower Upper

101 100

85 45.2 35.8 53.8

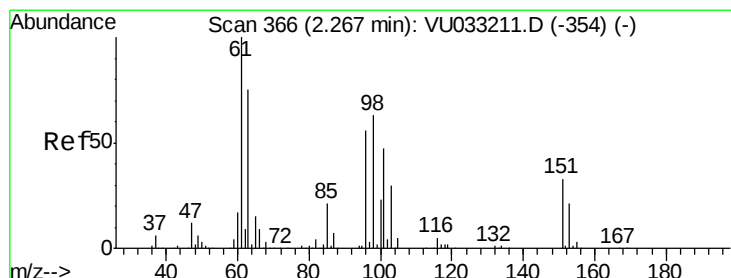
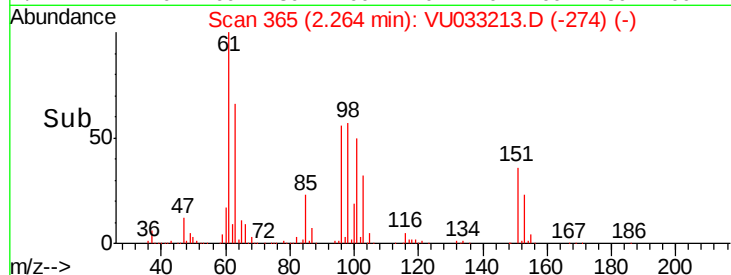
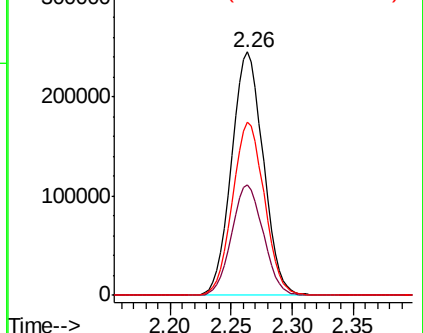
151 71.4 56.7 85.1



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: 205.673 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.01 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

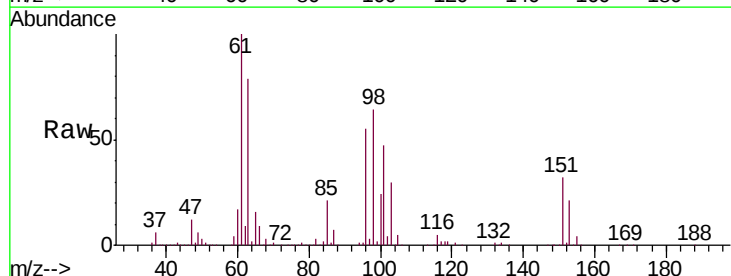
Tgt Ion: 96 Resp: 442110

Ion Ratio Lower Upper

96 100

61 181.3 126.1 234.1

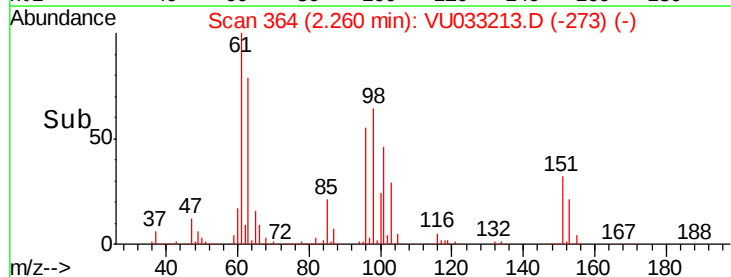
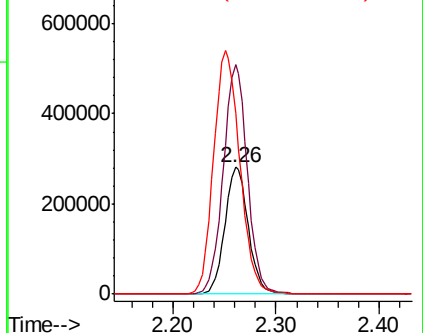
63 142.9 96.8 179.8

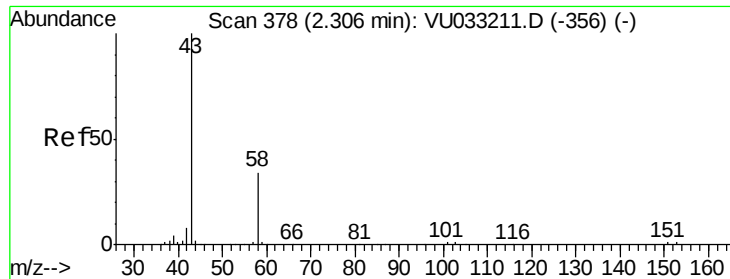


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 260.245 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

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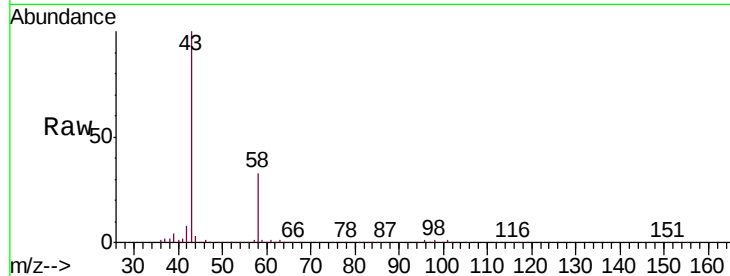
VSTD20036

Tgt Ion: 43 Resp: 648303

Ion Ratio Lower Upper

43 100

58 33.5 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033211.D (-356) (-)

Ion 58.00 (57.70 to 58.70): VU033211.D (-356) (-)

2.31

400000

300000

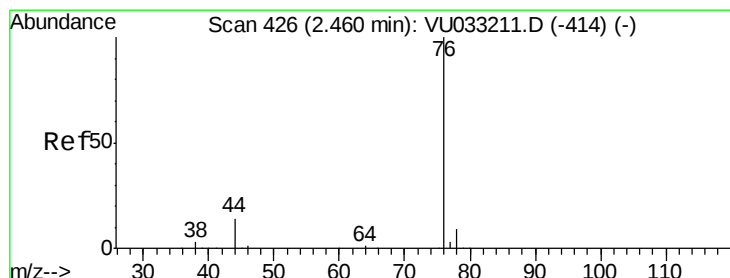
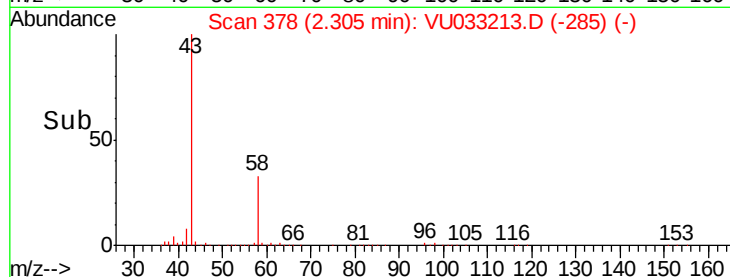
200000

100000

0

2.25 2.30 2.35 2.40

Time-->



#14

Carbon disulfide

Concen: 201.148 ug/L

RT: 2.45 min Scan# 424

Delta R.T. -0.01 min

Lab File: VU033213.D

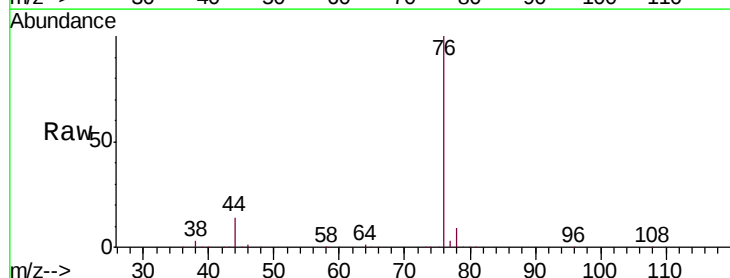
Acq: 12 Jul 2019 10:50

Tgt Ion: 76 Resp: 1348440

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033211.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU033211.D (-414) (-)

2.45

800000

600000

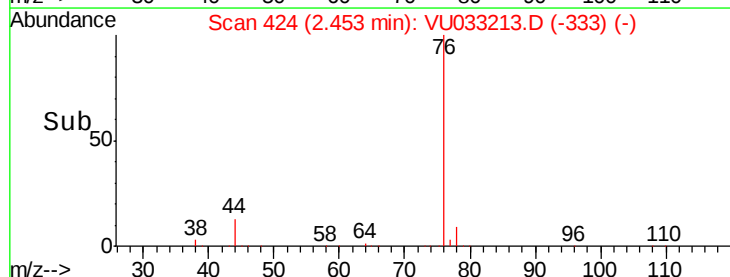
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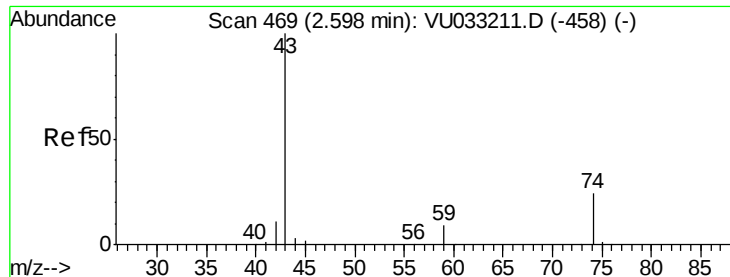
200000

0

2.40 2.45 2.50 2.60

Time-->





#15

Methyl Acetate

Concen: 187.305 ug/L

RT: 2.59 min Scan# 468

Delta R.T. -0.00 min

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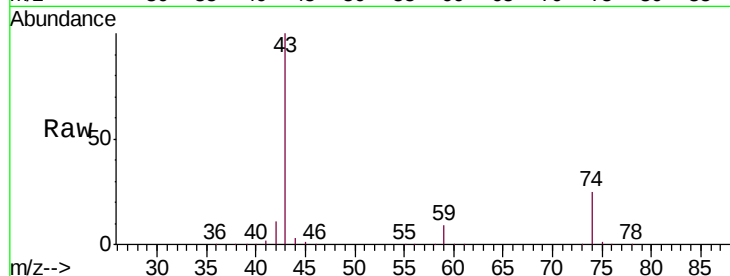
VSTD20036

Tgt Ion: 43 Resp: 545231

Ion Ratio Lower Upper

43 100

74 24.9 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VU033213.D (-376) (-)

Ion 74.00 (73.70 to 74.70): VU033213.D (-376) (-)

2.59

300000

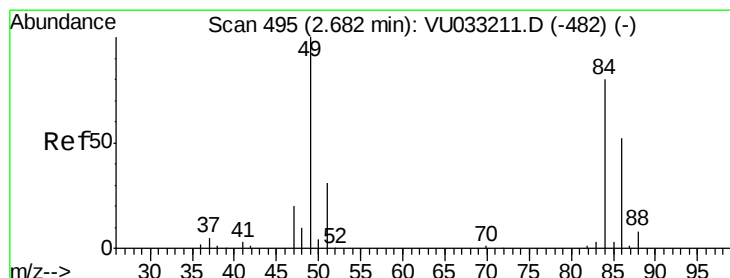
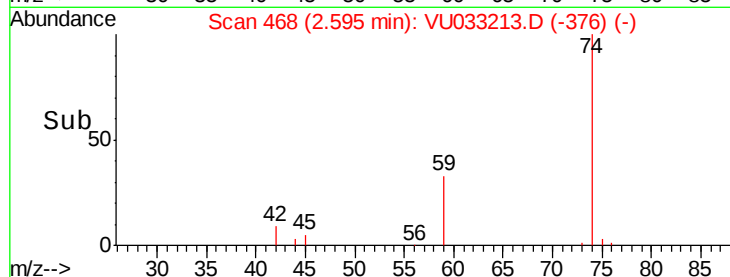
200000

100000

0

2.55 2.60 2.65 2.70

Time-->



#16

Methylene chloride

Concen: 202.966 ug/L

RT: 2.68 min Scan# 494

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

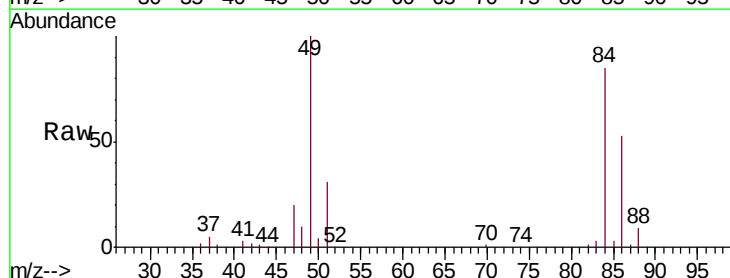
Tgt Ion: 84 Resp: 503994

Ion Ratio Lower Upper

84 100

86 62.9 45.7 84.9

49 118.3 87.7 162.9



Abundance Ion 84.00 (83.70 to 84.70): VU033213.D (-402) (-)

Ion 86.00 (85.70 to 86.70): VU033213.D (-402) (-)

Ion 49.00 (48.70 to 49.70): VU033213.D (-402) (-)

2.68

400000

300000

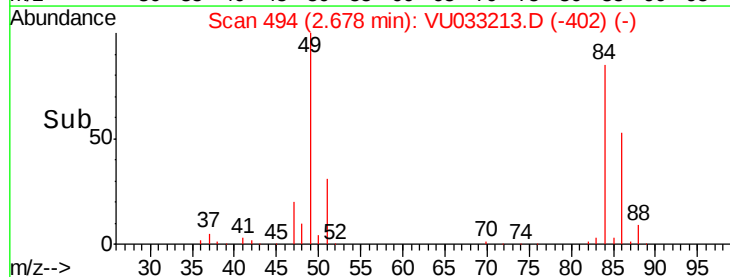
200000

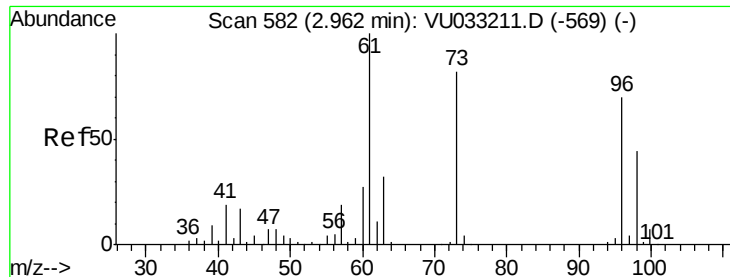
100000

0

2.60 2.70 2.80

Time-->





#17

trans-1,2-Dichloroethene

Concen: 203.216 ug/L

RT: 2.96 min Scan# 581

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

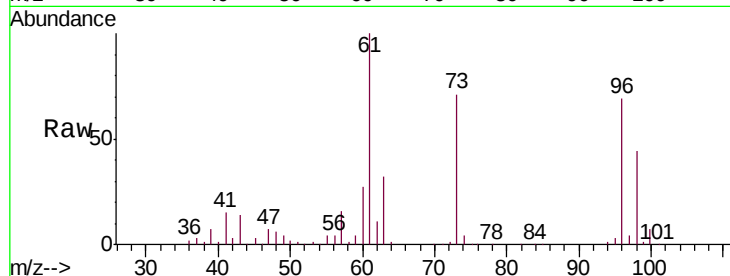
Tgt Ion: 96 Resp: 465325

Ion Ratio Lower Upper

96 100

61 144.5 100.2 186.2

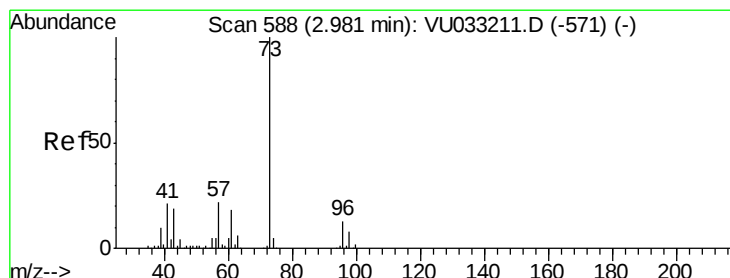
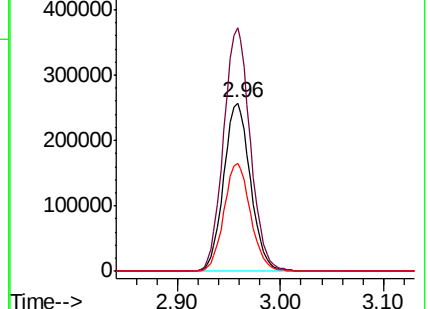
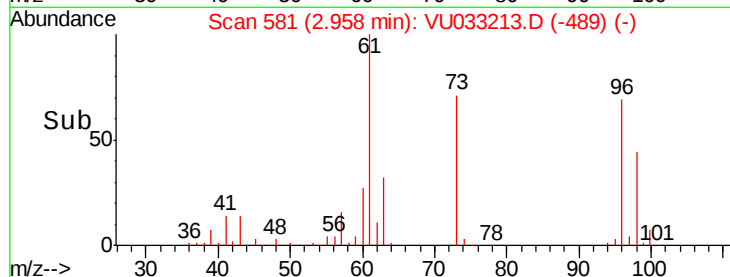
98 64.2 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 205.505 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

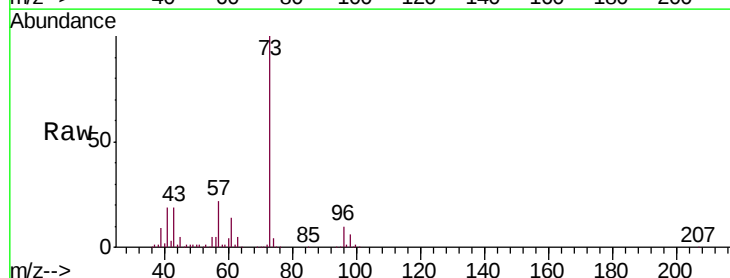
Tgt Ion: 73 Resp: 1498311

Ion Ratio Lower Upper

73 100

43 19.3 15.7 23.5

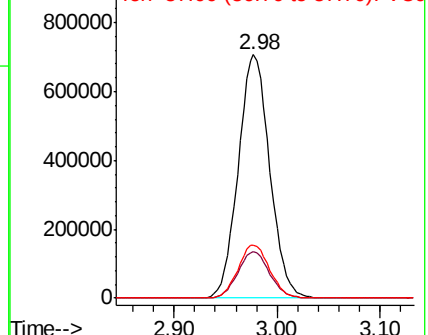
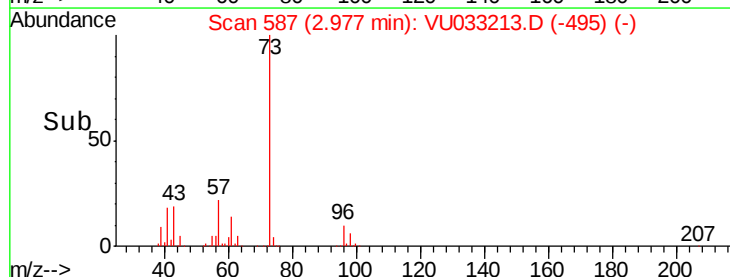
57 22.0 17.8 26.6

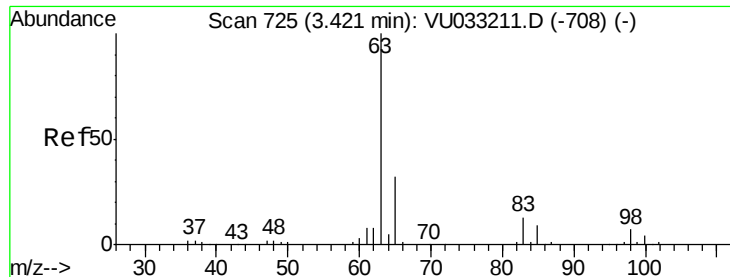


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 201.843 ug/L

RT: 3.42 min Scan# 724

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

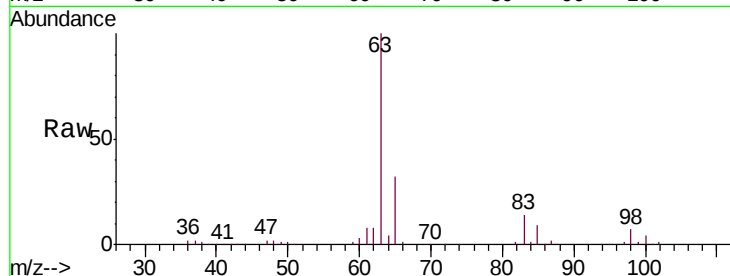
Tgt Ion: 63 Resp: 878313

Ion Ratio Lower Upper

63 100

65 31.7 22.3 41.5

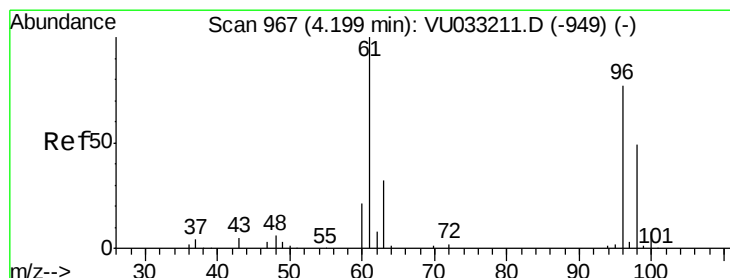
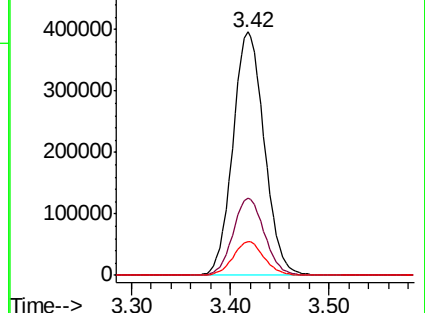
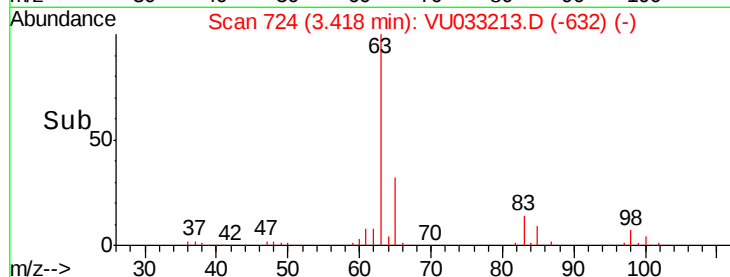
83 14.0 9.3 17.3



Abundance Ion 63.00 (62.70 to 63.70): VU033213.D (-632) (-)

Ion 65.00 (64.70 to 65.70): VU033213.D (-632) (-)

Ion 83.00 (82.70 to 83.70): VU033213.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 214.001 ug/L

RT: 4.19 min Scan# 965

Delta R.T. -0.01 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

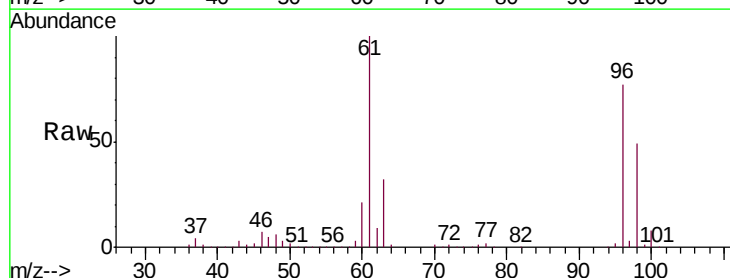
Tgt Ion: 96 Resp: 537026

Ion Ratio Lower Upper

96 100

61 129.2 91.1 169.1

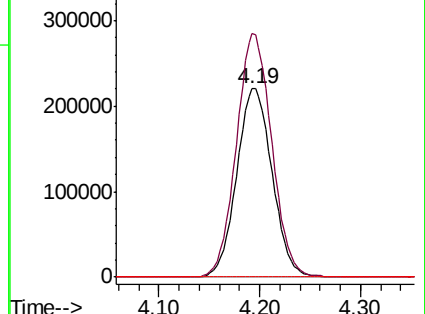
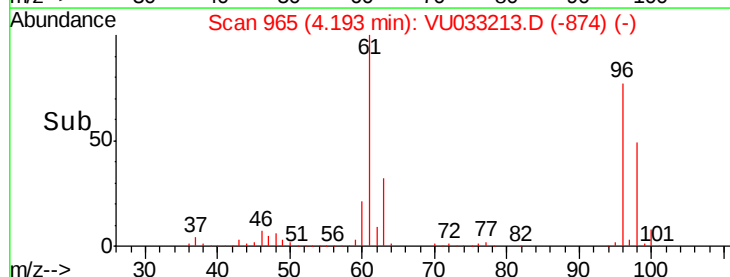
68 0.0 0.0 0.0

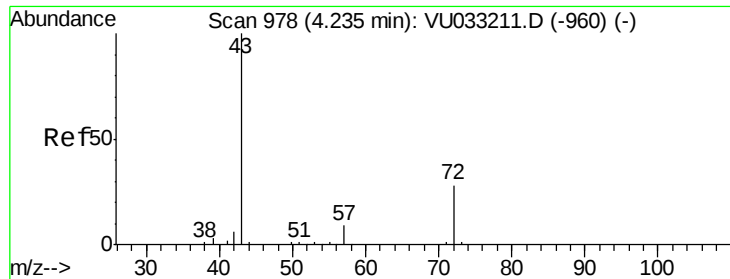


Abundance Ion 96.00 (95.70 to 96.70): VU033213.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033213.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033213.D (-874) (-)





#22

2-Butanone

Concen: 343.318 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

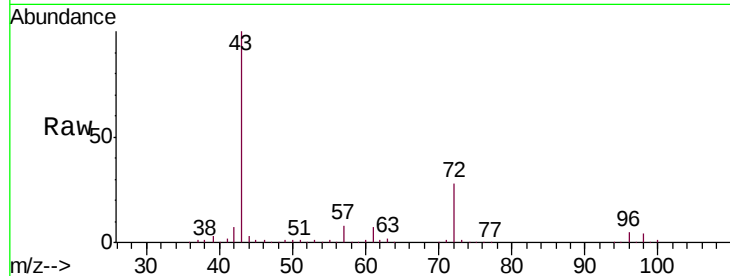
VSTD20036

Tgt Ion: 43 Resp: 898479

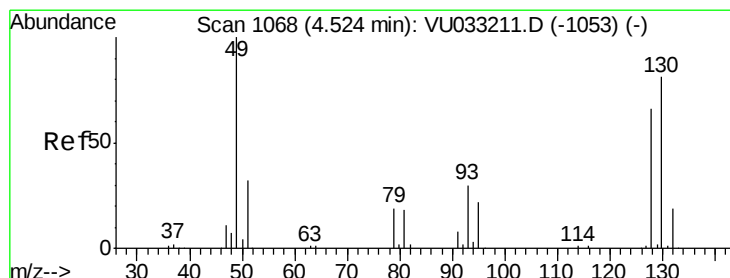
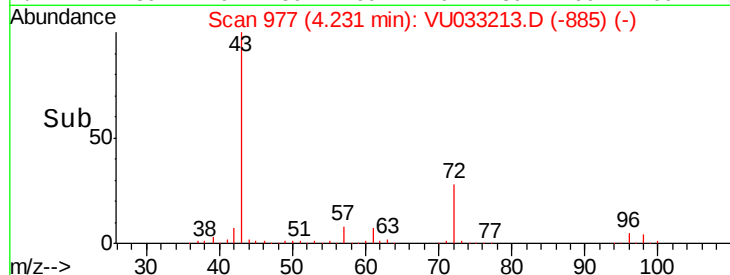
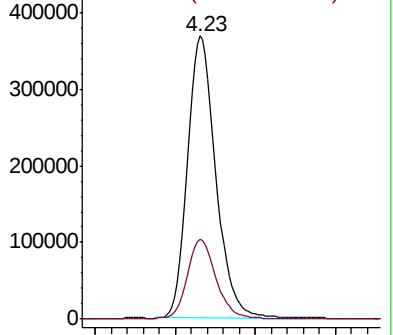
Ion Ratio Lower Upper

43 100

72 29.1 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033213.D (-885) (-)



#23

Bromochloromethane

Concen: 207.276 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Tgt Ion: 128 Resp: 269098

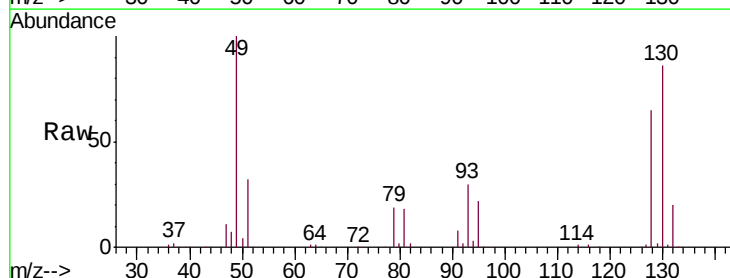
Ion Ratio Lower Upper

128 100

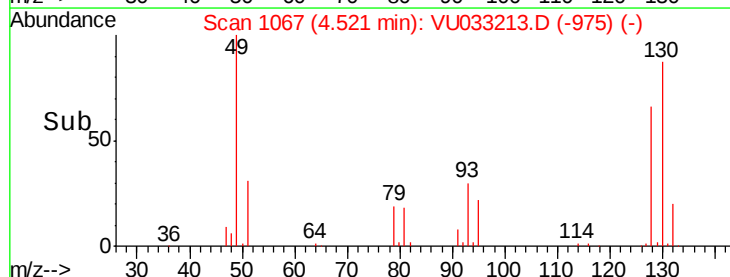
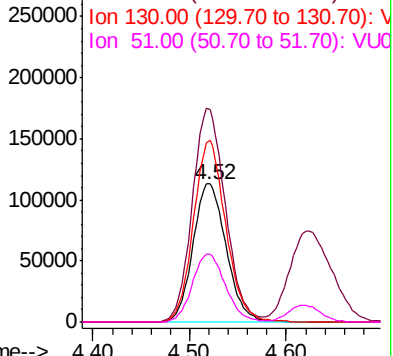
49 153.4 107.2 199.2

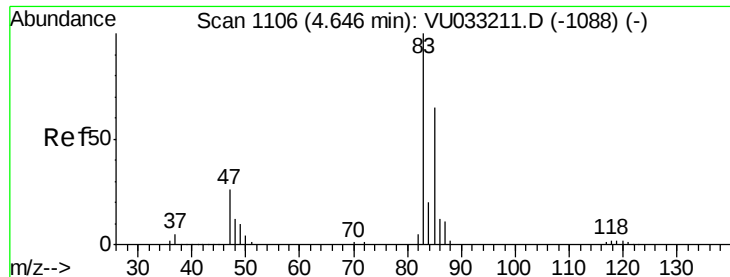
130 131.3 87.0 161.6

51 49.1 39.6 59.4



Abundance Ion 128.00 (127.70 to 128.70): VU033213.D (-975) (-)

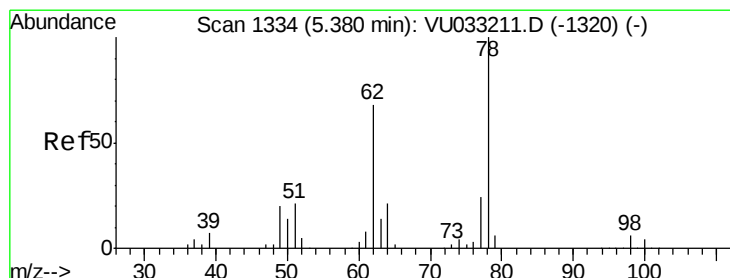
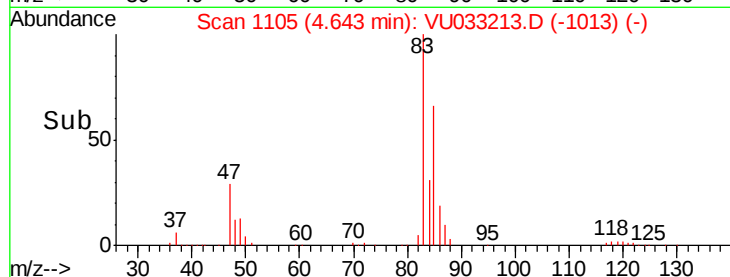
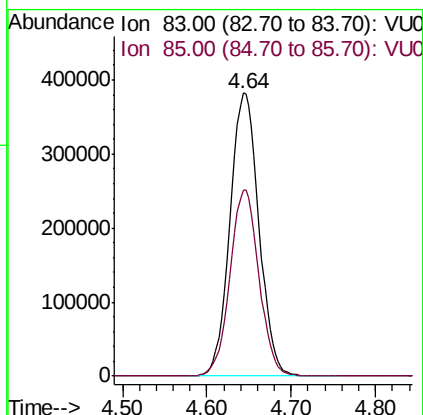
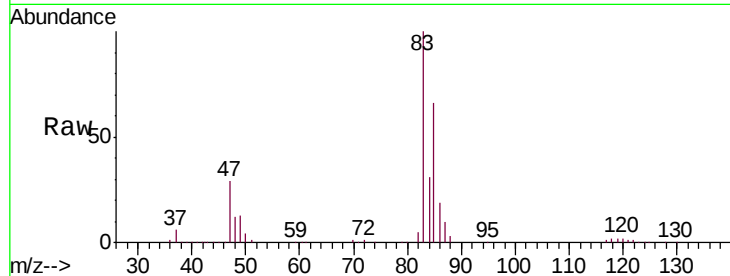




#25
Chloroform
Concen: 201.786 ug/L
RT: 4.64 min Scan# 1105
Delta R.T. -0.00 min
Lab File: VU033213.D
Acq: 12 Jul 2019 10:50

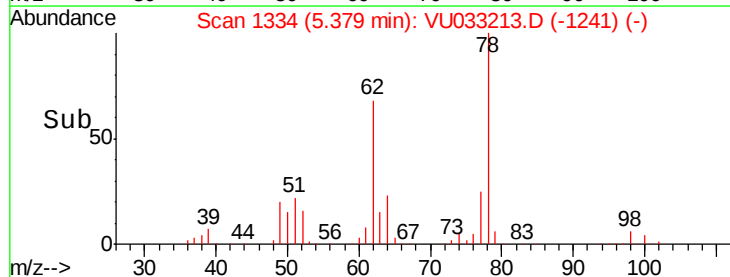
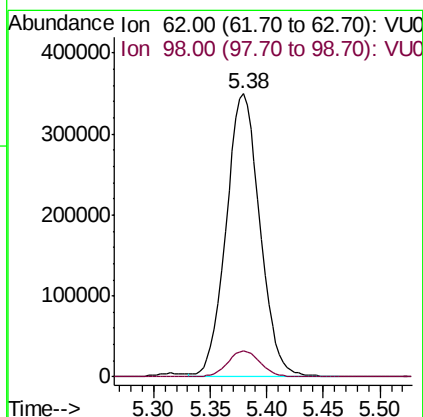
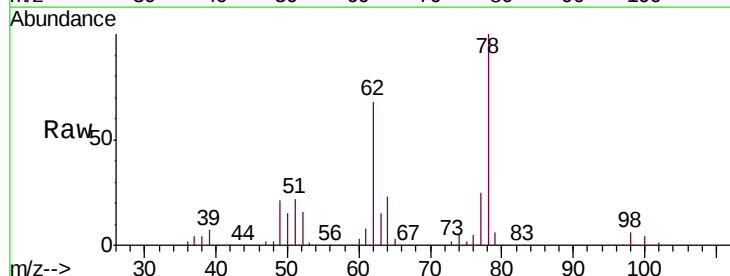
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

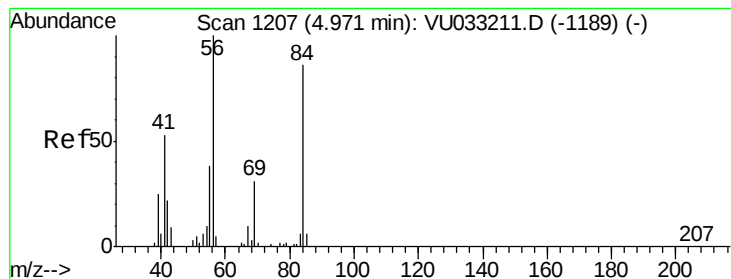
Tgt Ion: 83 Resp: 910776
Ion Ratio Lower Upper
83 100
85 65.9 45.4 84.4



#27
1,2-Dichloroethane
Concen: 197.572 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033213.D
Acq: 12 Jul 2019 10:50

Tgt Ion: 62 Resp: 725387
Ion Ratio Lower Upper
62 100
98 9.2 7.0 10.6





#29

Cyclohexane

Concen: 203.228 ug/L

RT: 4.97 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

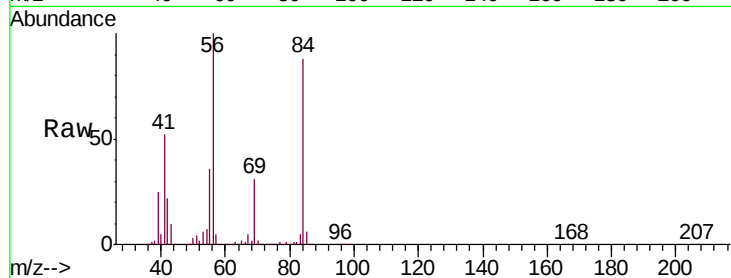
Tgt Ion: 56 Resp: 796826

Ion Ratio Lower Upper

56 100

69 31.2 24.7 37.1

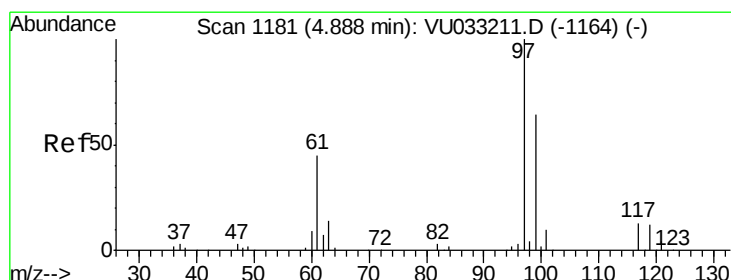
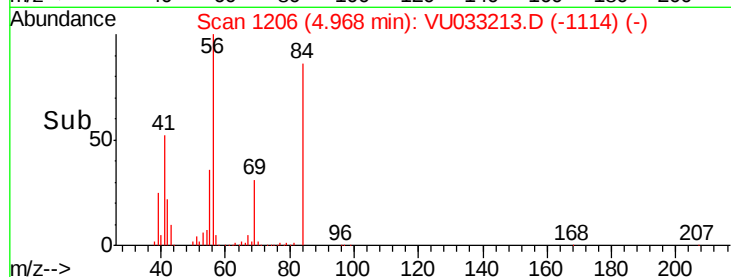
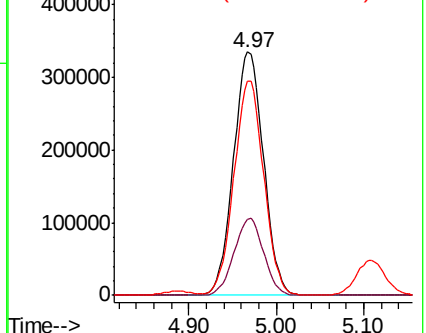
84 87.7 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VU033211.D (-1189) (-)

Ion 69.00 (68.70 to 69.70): VU033211.D (-1189) (-)

Ion 84.00 (83.70 to 84.70): VU033211.D (-1189) (-)



#30

1,1,1-Trichloroethane

Concen: 192.340 ug/L

RT: 4.89 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

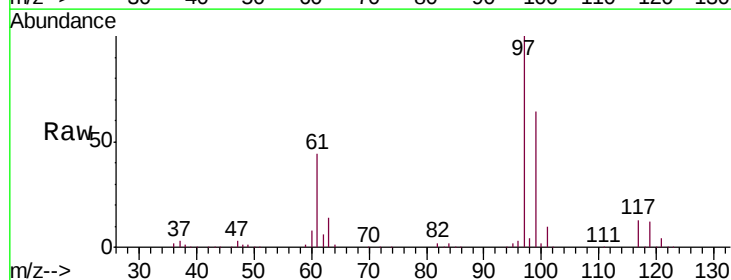
Tgt Ion: 97 Resp: 784479

Ion Ratio Lower Upper

97 100

99 64.4 51.5 77.3

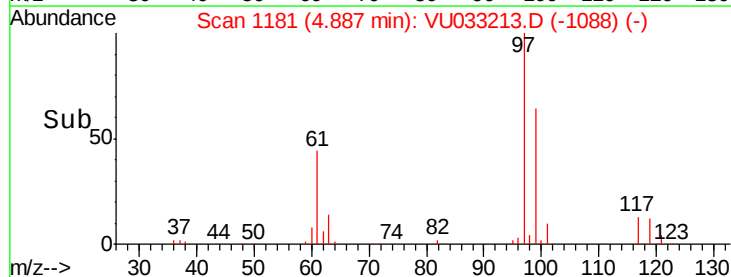
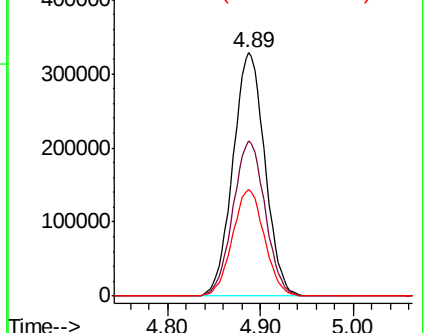
61 44.0 36.4 54.6

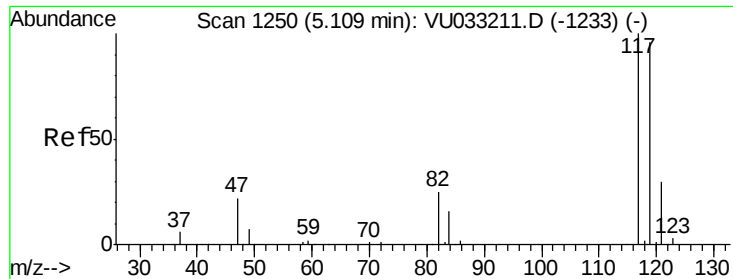


Abundance Ion 97.00 (96.70 to 97.70): VU033211.D (-1164) (-)

Ion 99.00 (98.70 to 99.70): VU033211.D (-1164) (-)

Ion 61.05 (60.75 to 61.75): VU033211.D (-1164) (-)

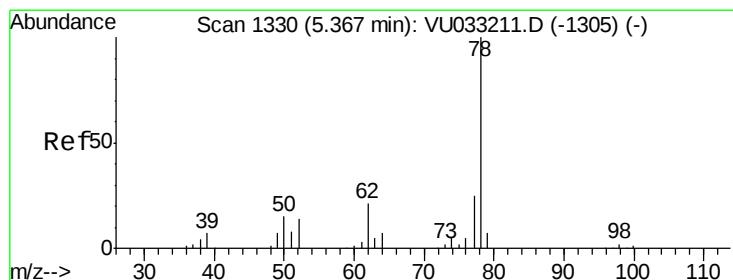
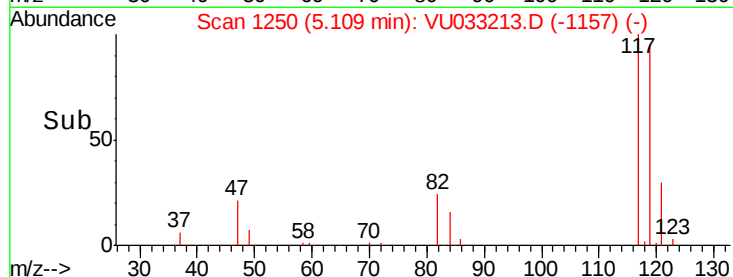
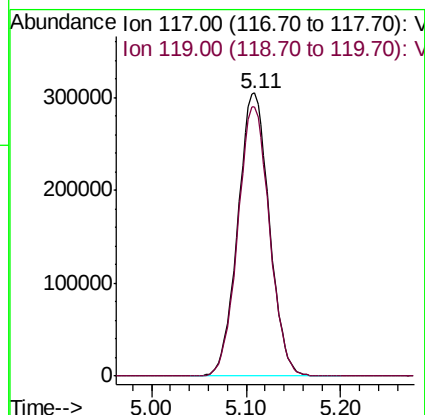
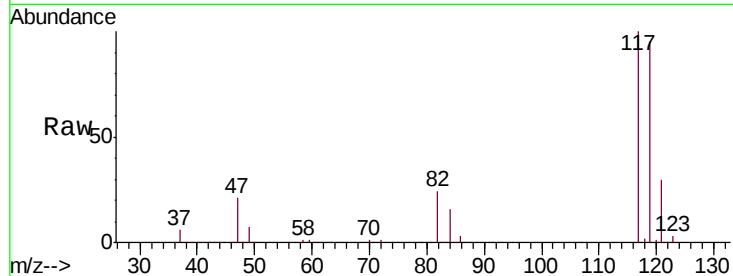




#31
Carbon tetrachloride
Concen: 191.000 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU033213.D
Acq: 12 Jul 2019 10:50

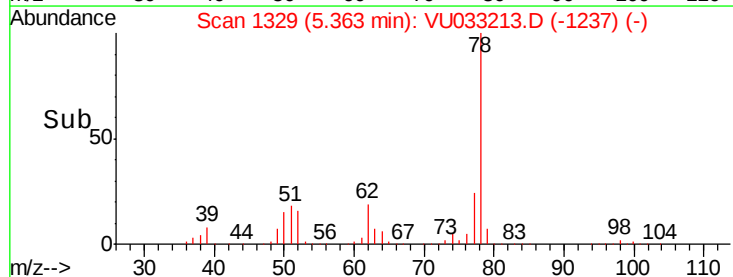
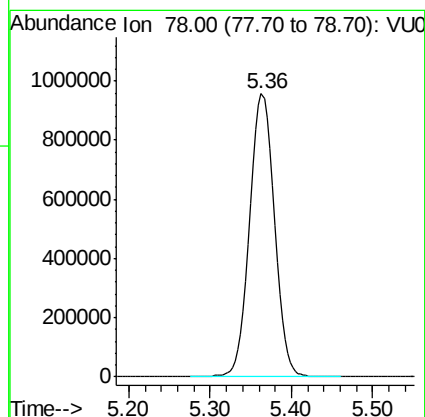
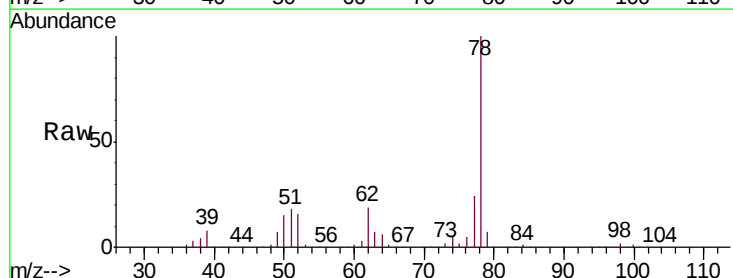
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

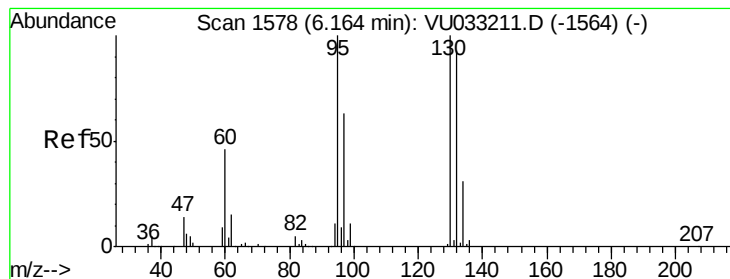
Tgt Ion:117 Resp: 704980
Ion Ratio Lower Upper
117 100
119 95.7 76.9 115.3



#33
Benzene
Concen: 204.521 ug/L
RT: 5.36 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VU033213.D
Acq: 12 Jul 2019 10:50

Tgt Ion: 78 Resp: 2003178





#34

Trichloroethene

Concen: 199.528 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

Tgt Ion: 95 Resp: 518609

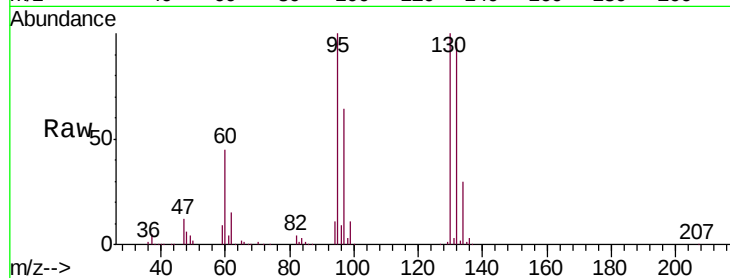
Ion Ratio Lower Upper

95 100

97 64.1 43.8 81.4

132 95.8 65.5 121.6

130 100.1 69.7 129.5

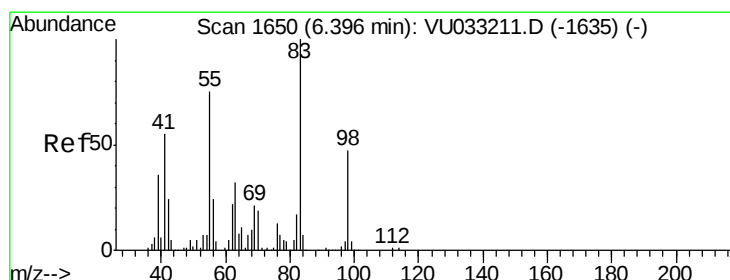
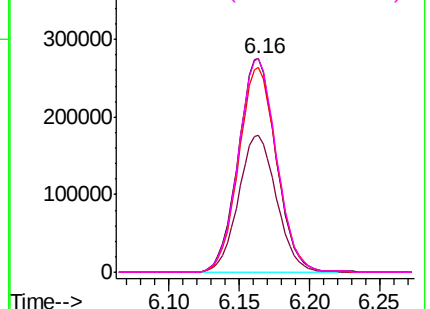
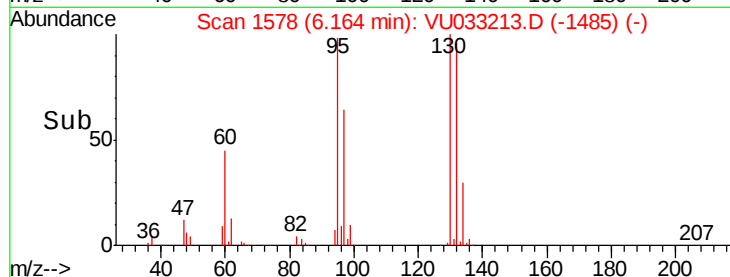


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 212.267 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

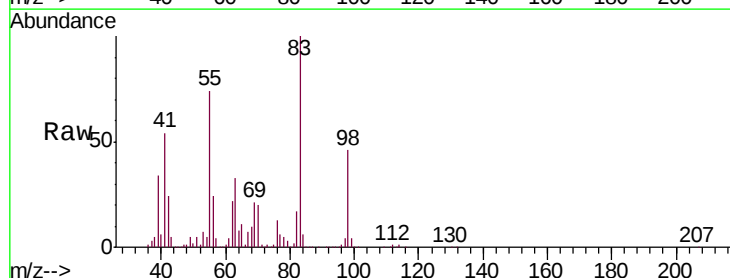
Tgt Ion: 83 Resp: 852766

Ion Ratio Lower Upper

83 100

55 73.9 60.5 90.7

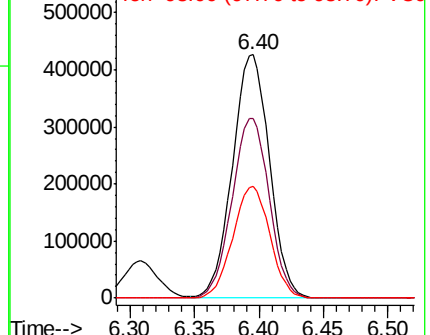
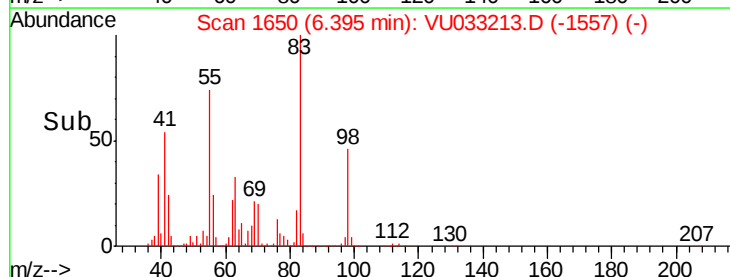
98 45.9 37.4 56.0

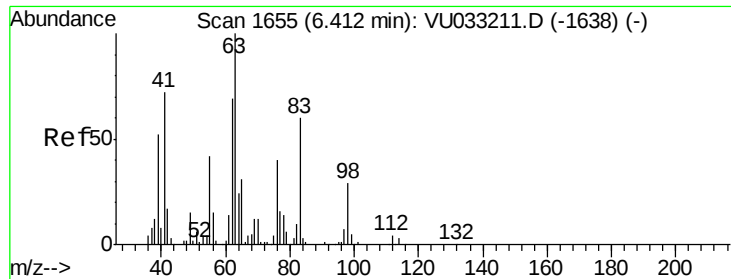


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

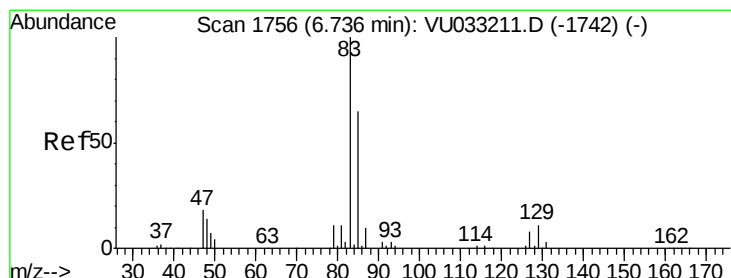
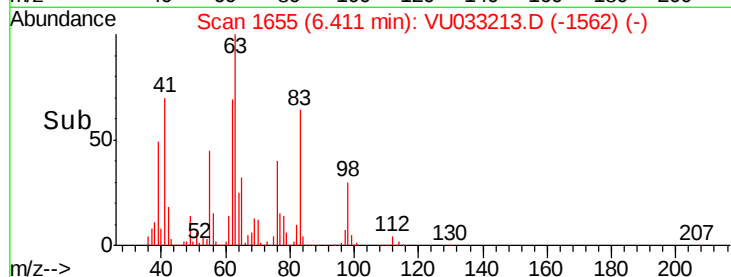
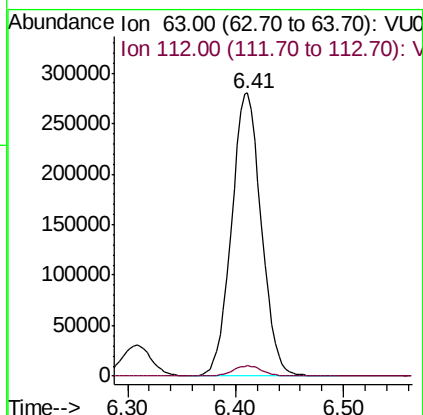
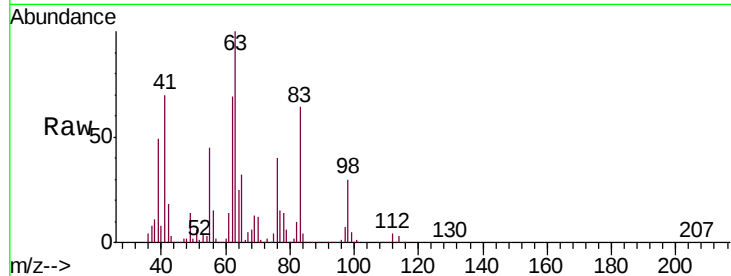




#37
 1,2-Dichloropropane
 Concen: 201.493 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033213.D
 Acq: 12 Jul 2019 10:50

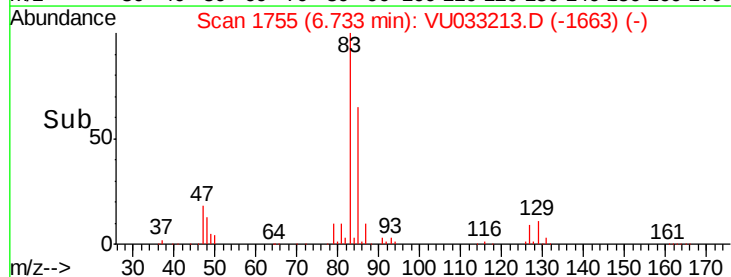
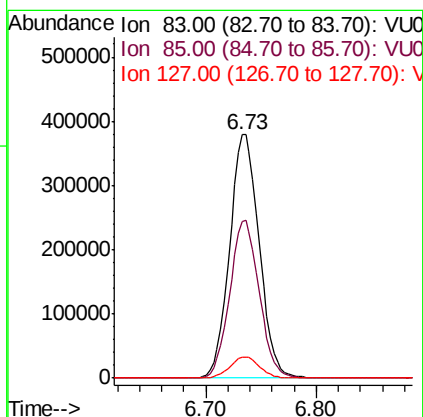
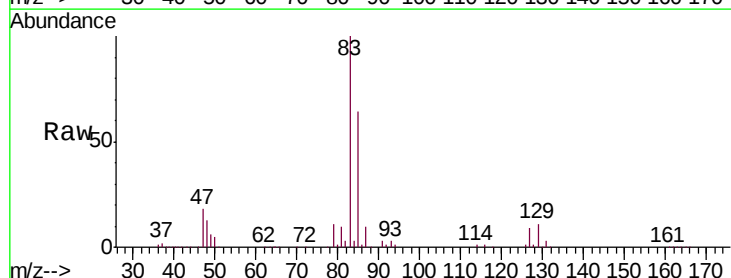
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

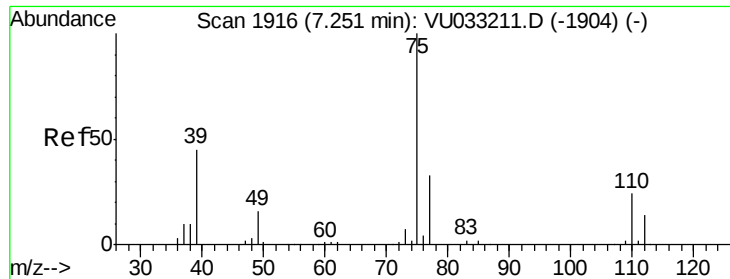
Tgt Ion: 63 Resp: 539132
 Ion Ratio Lower Upper
 63 100
 112 3.6 3.2 4.8



#38
 Bromodichloromethane
 Concen: 196.546 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. -0.00 min
 Lab File: VU033213.D
 Acq: 12 Jul 2019 10:50

Tgt Ion: 83 Resp: 703094
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.8 85.0
 127 8.7 6.8 10.2

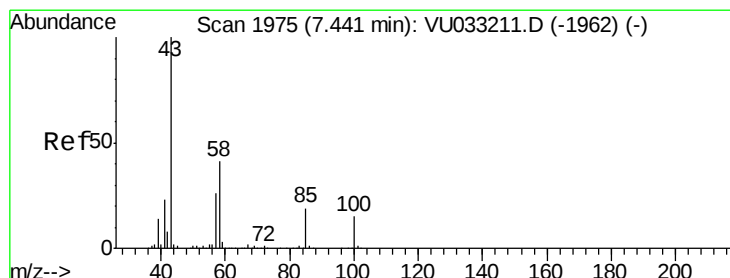
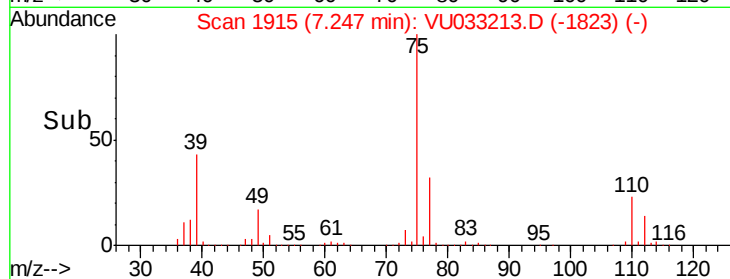
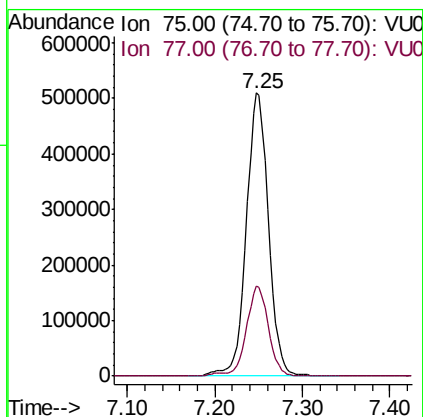
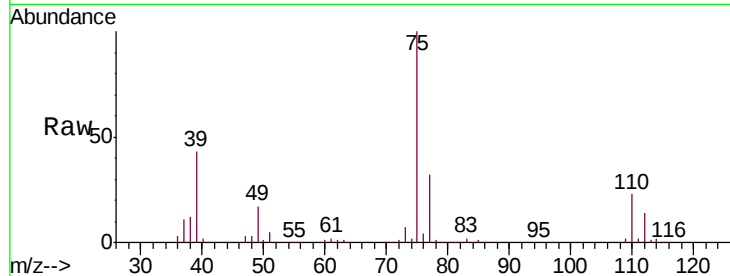




#39
 cis-1,3-Dichloropropene
 Concen: 217.097 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU033213.D
 Acq: 12 Jul 2019 10:50

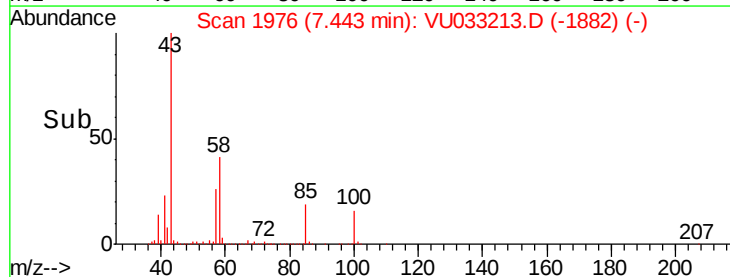
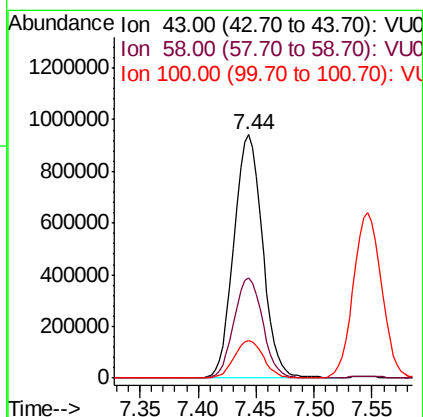
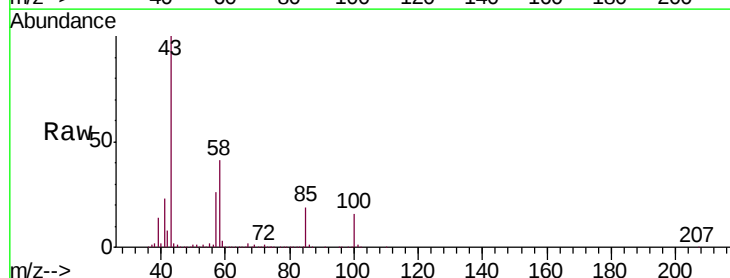
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

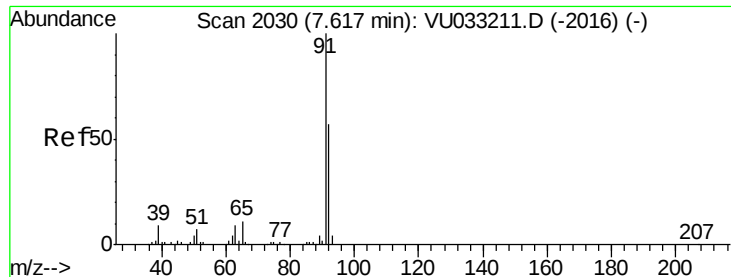
Tgt Ion: 75 Resp: 896546
 Ion Ratio Lower Upper
 75 100
 77 31.8 23.1 42.9



#40
 4-Methyl-2-pentanone
 Concen: 389.113 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033213.D
 Acq: 12 Jul 2019 10:50

Tgt Ion: 43 Resp: 1617741
 Ion Ratio Lower Upper
 43 100
 58 41.4 33.3 49.9
 100 15.7 12.1 18.1





#42

Toluene

Concen: 210.777 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

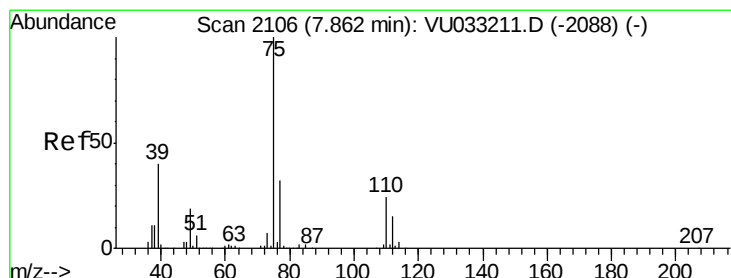
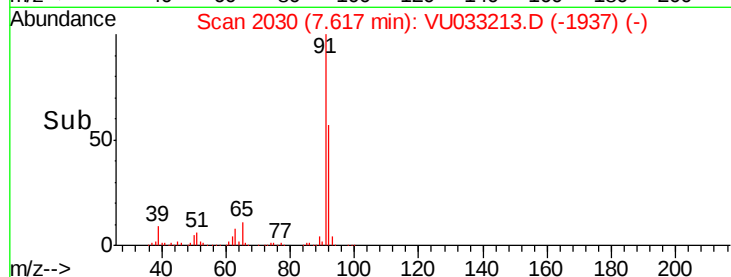
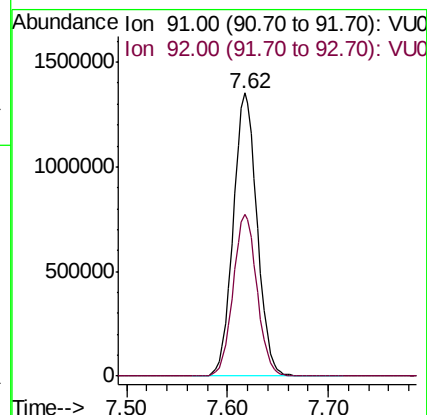
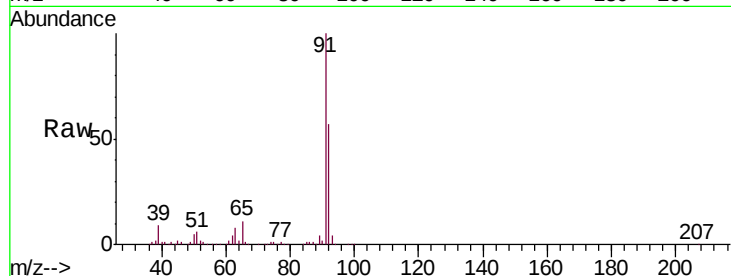
VSTD20036

Tgt Ion: 91 Resp: 2233968

Ion Ratio Lower Upper

91 100

92 57.2 39.8 74.0



#44

trans-1,3-Dichloropropene

Concen: 208.413 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VU033213.D

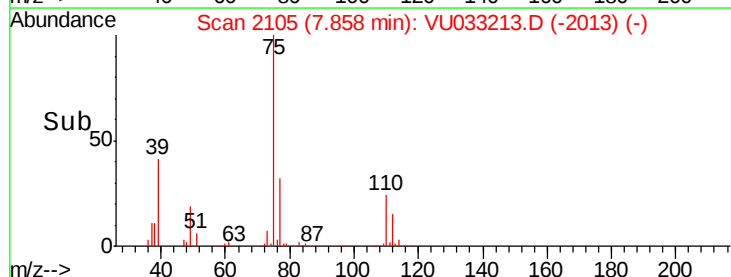
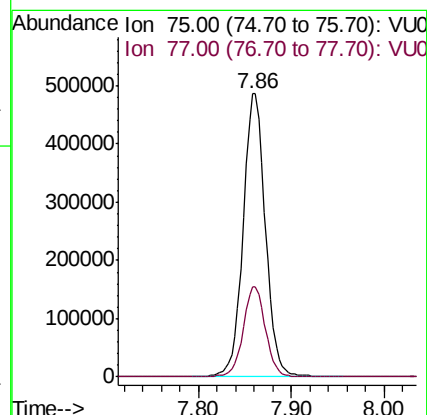
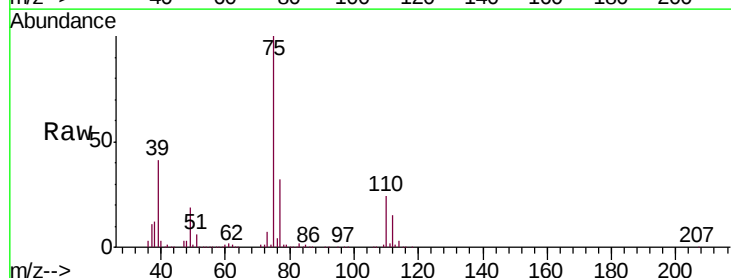
Acq: 12 Jul 2019 10:50

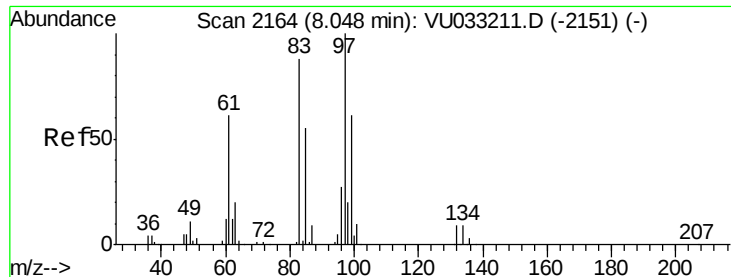
Tgt Ion: 75 Resp: 810605

Ion Ratio Lower Upper

75 100

77 31.9 22.4 41.6

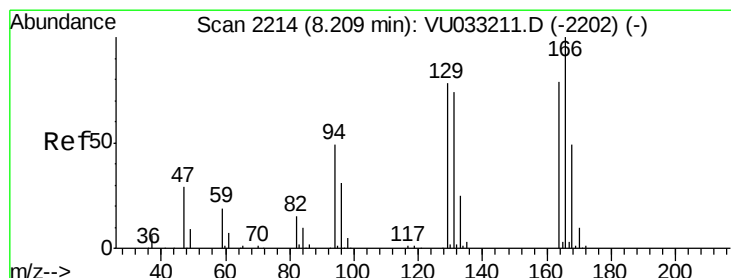
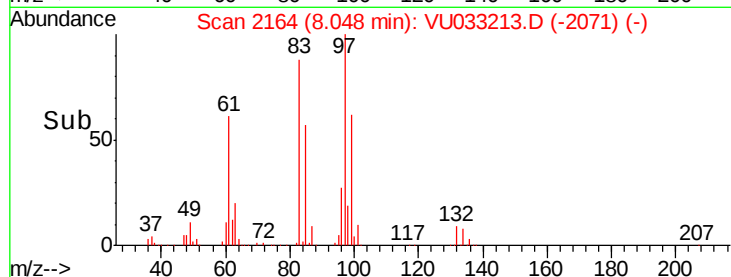
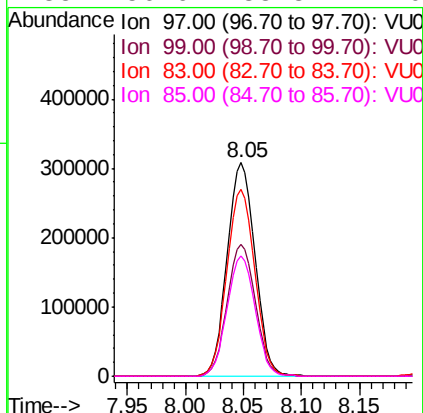
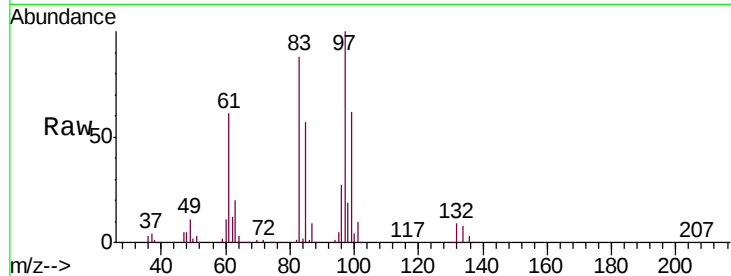




#45
 1,1,2-Trichloroethane
 Concen: 205.018 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033213.D
 Acq: 12 Jul 2019 10:50

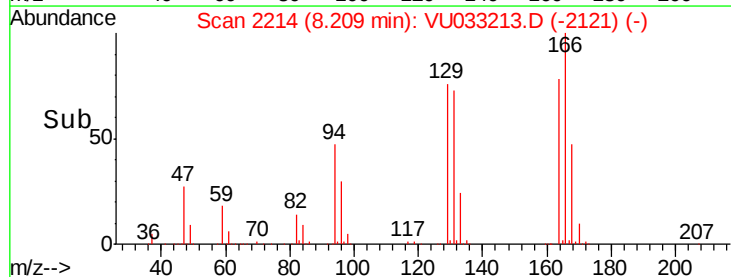
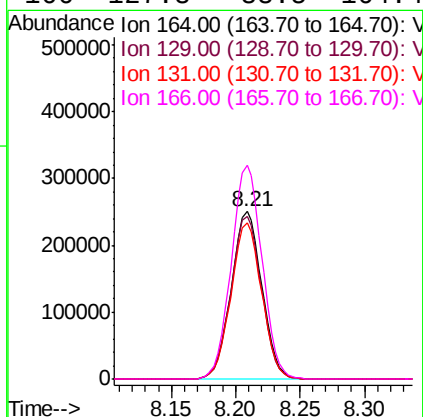
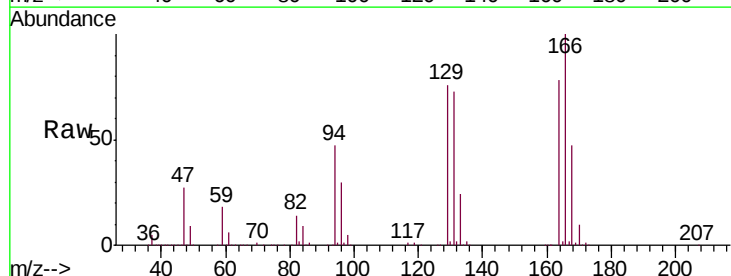
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

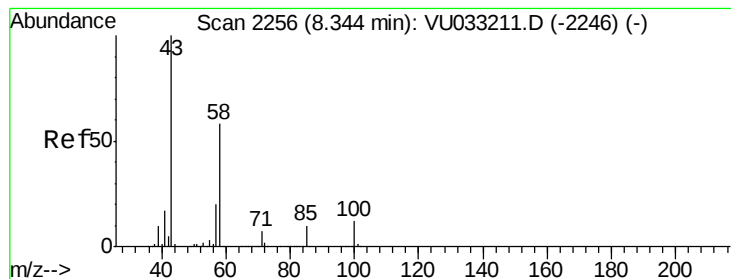
Tgt Ion:	97	Resp:	511610
Ion	Ratio	Lower	Upper
97	100		
99	61.9	43.0	79.8
83	87.6	61.5	114.3
85	56.6	38.8	72.0



#46
 Tetrachloroethene
 Concen: 195.610 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033213.D
 Acq: 12 Jul 2019 10:50

Tgt Ion:	164	Resp:	412688
Ion	Ratio	Lower	Upper
164	100		
129	97.6	69.6	129.2
131	93.2	65.7	122.1
166	127.8	88.5	164.4





#48

2-Hexanone

Concen: 362.905 ug/L

RT: 8.35 min Scan# 2257

Delta R.T. 0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

Tgt Ion: 43 Resp: 1312990

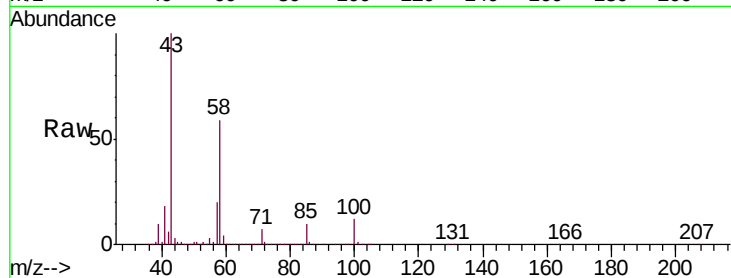
Ion Ratio Lower Upper

43 100

58 57.8 46.1 69.1

57 20.0 15.8 23.8

100 12.2 9.4 14.2

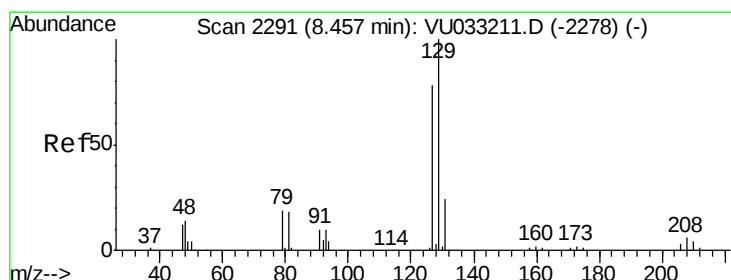
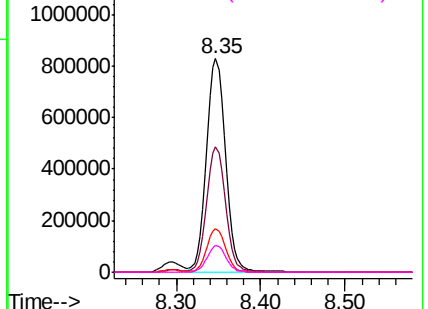
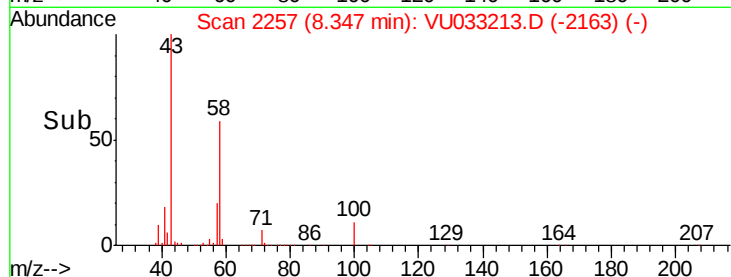


Abundance Ion 43.00 (42.70 to 43.70): VU033211.D (-2246) (-)

Ion 58.00 (57.70 to 58.70): VU033211.D (-2246) (-)

Ion 57.00 (56.70 to 57.70): VU033211.D (-2246) (-)

Ion 100.00 (99.70 to 100.70): VU033211.D (-2246) (-)



#49

Dibromochloromethane

Concen: 202.827 ug/L

RT: 8.46 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VU033213.D

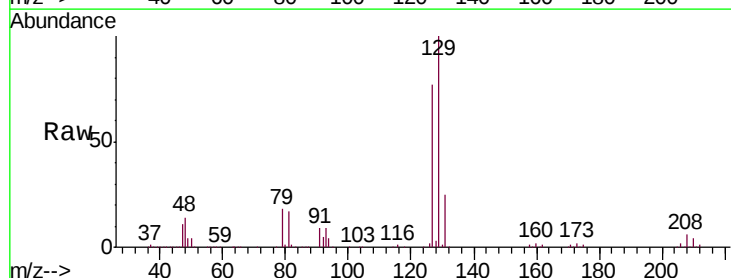
Acq: 12 Jul 2019 10:50

Tgt Ion: 129 Resp: 601255

Ion Ratio Lower Upper

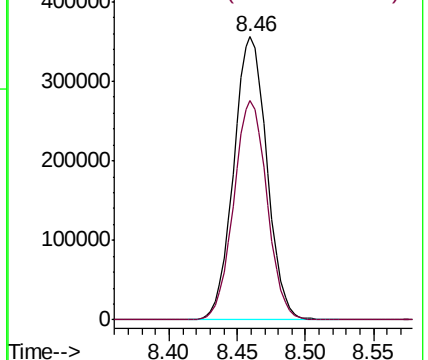
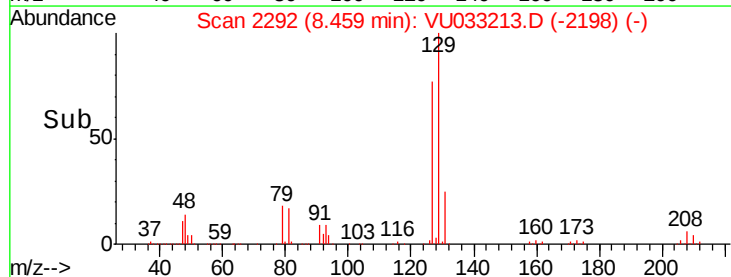
129 100

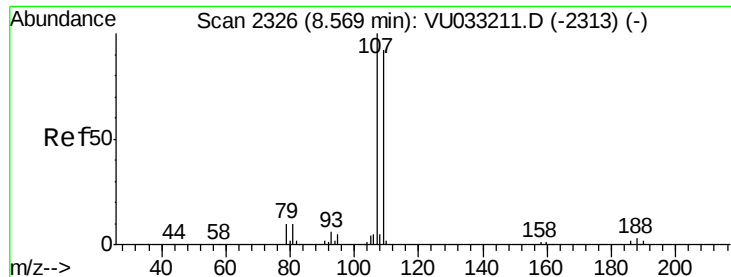
127 77.5 54.3 100.9



Abundance Ion 129.00 (128.70 to 129.70): VU033211.D (-2278) (-)

Ion 127.00 (126.70 to 127.70): VU033211.D (-2278) (-)

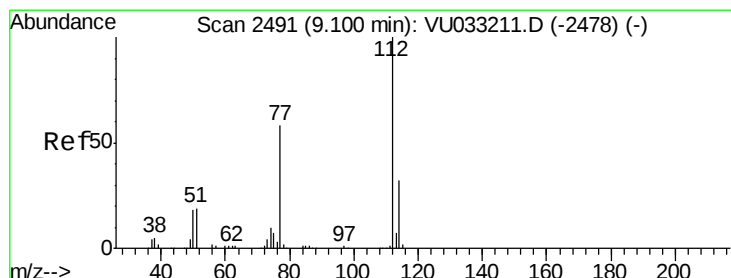
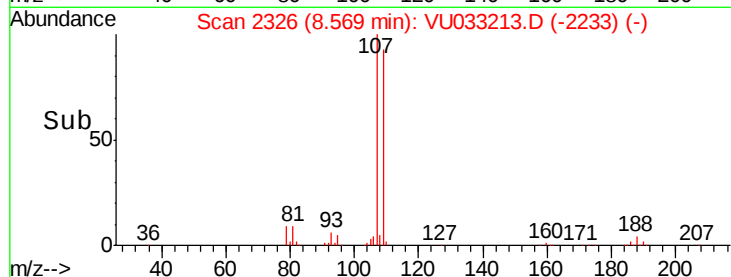
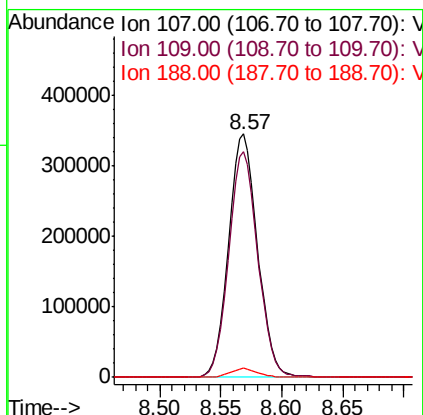
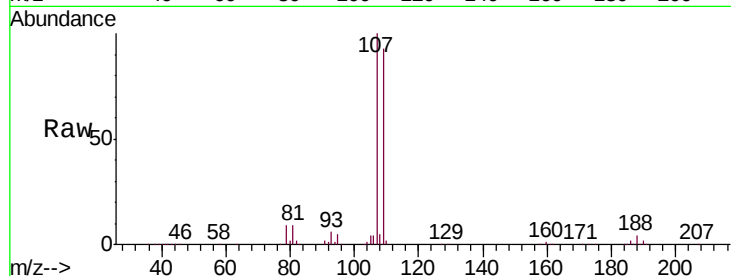




#50
1,2-Dibromoethane
Concen: 207.160 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU033213.D
Acq: 12 Jul 2019 10:50

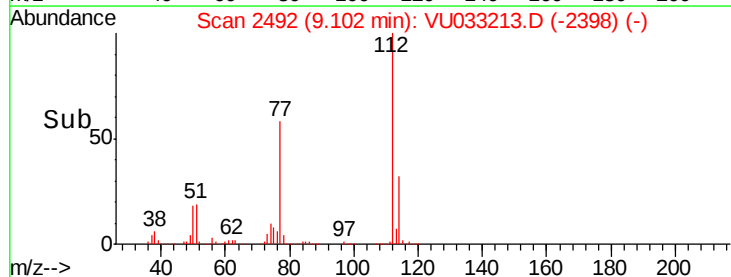
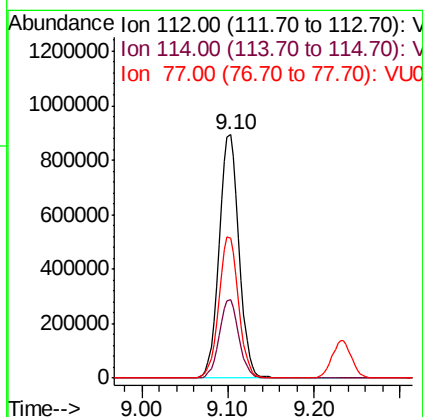
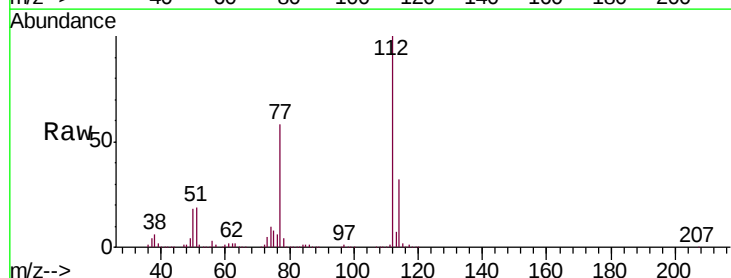
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

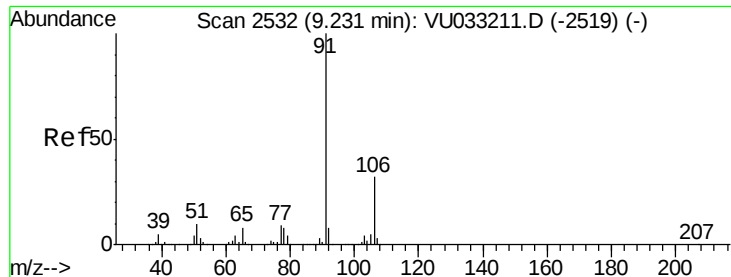
Tgt Ion:107 Resp: 573352
Ion Ratio Lower Upper
107 100
109 92.9 64.2 119.2
188 3.6 2.6 4.0



#51
Chlorobenzene
Concen: 205.277 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033213.D
Acq: 12 Jul 2019 10:50

Tgt Ion:112 Resp: 1429352
Ion Ratio Lower Upper
112 100
114 32.0 22.3 41.3
77 57.5 47.2 70.8





#52

Ethylbenzene

Concen: 214.782 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

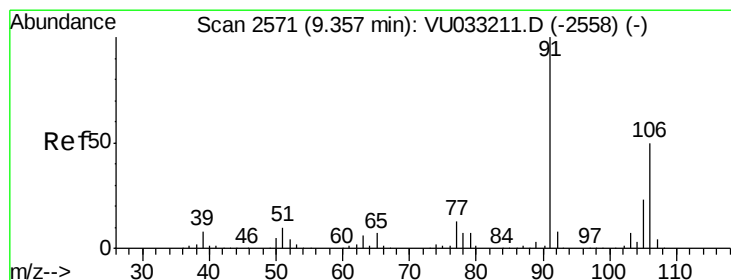
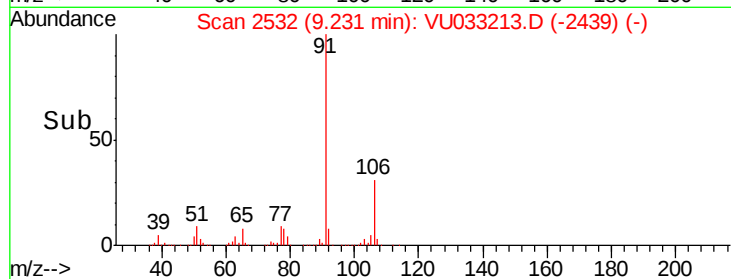
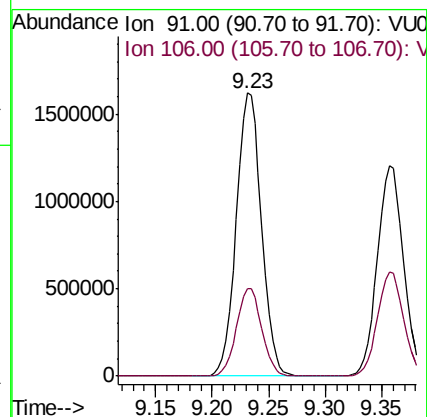
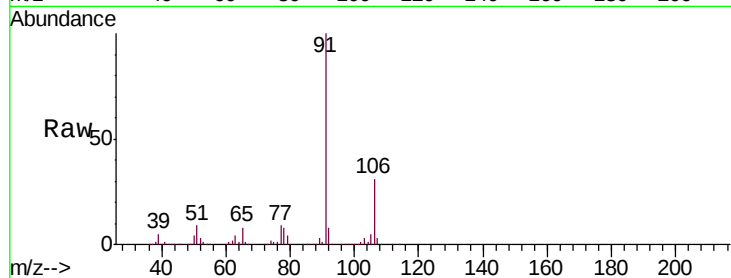
VSTD20036

Tgt Ion: 91 Resp: 2511913

Ion Ratio Lower Upper

91 100

106 31.1 22.2 41.2



#53

m,p-Xylene

Concen: 215.933 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033213.D

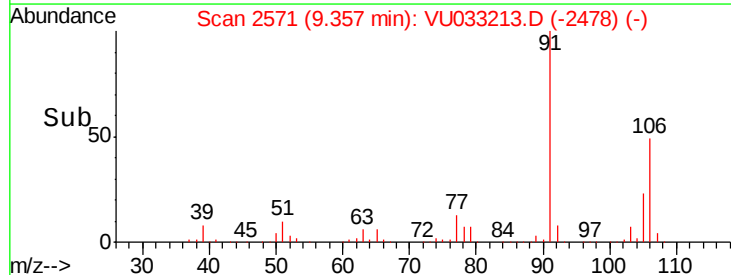
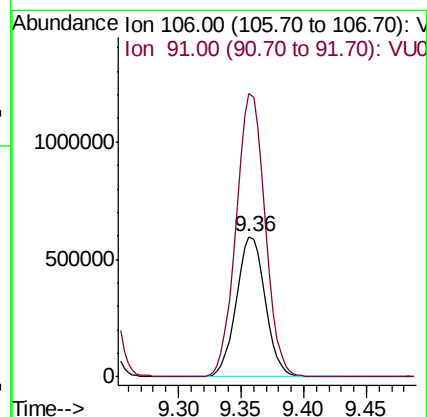
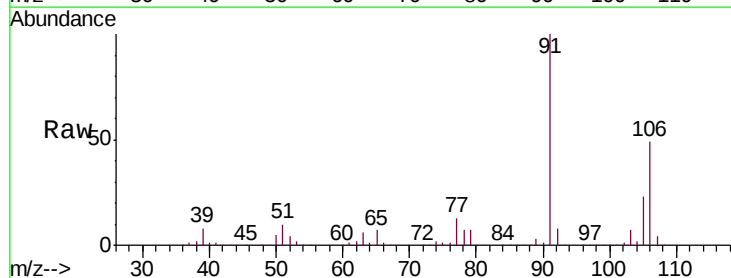
Acq: 12 Jul 2019 10:50

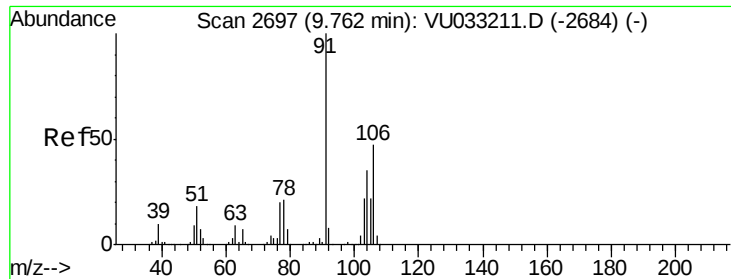
Tgt Ion: 106 Resp: 954534

Ion Ratio Lower Upper

106 100

91 202.1 141.3 262.3





#54

o-xylene

Concen: 221.641 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

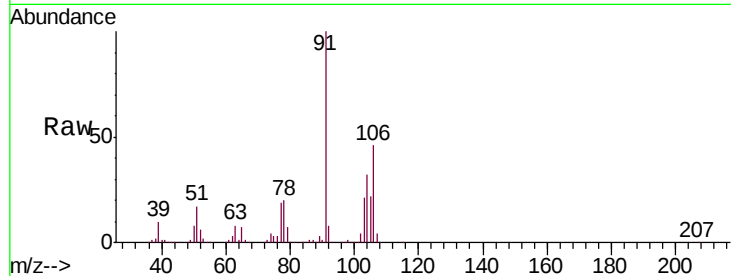
VSTD20036

Tgt Ion:106 Resp: 958846

Ion Ratio Lower Upper

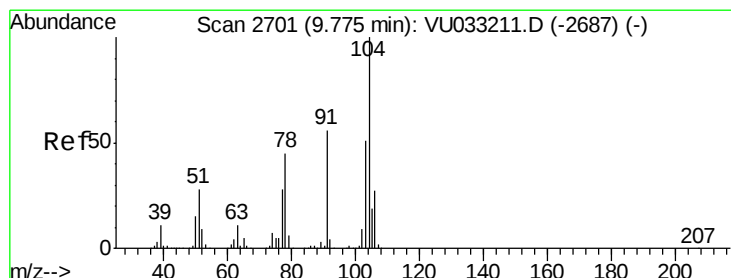
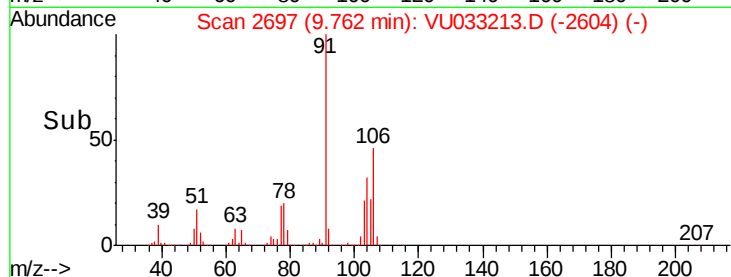
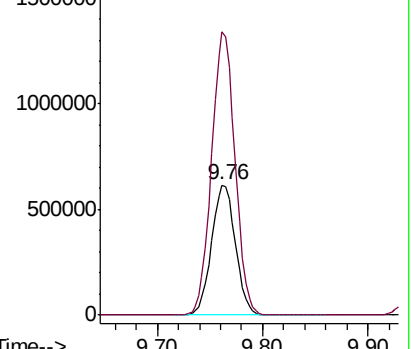
106 100

91 217.3 150.5 279.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 223.634 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033213.D

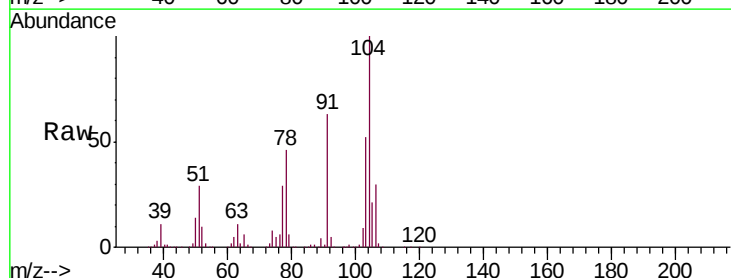
Acq: 12 Jul 2019 10:50

Tgt Ion:104 Resp: 1673074

Ion Ratio Lower Upper

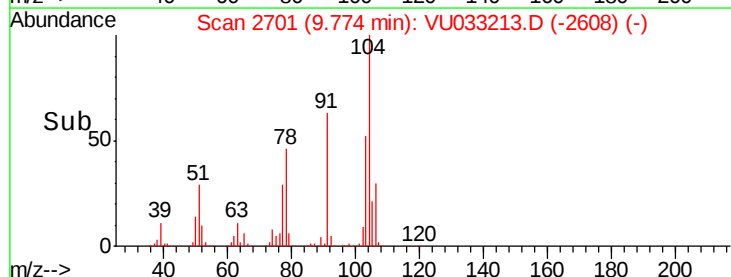
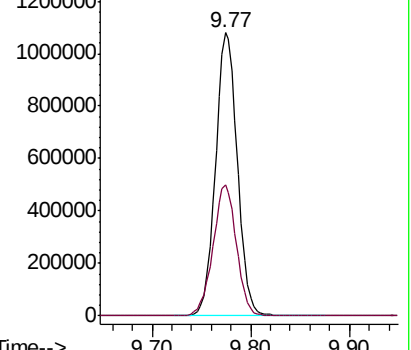
104 100

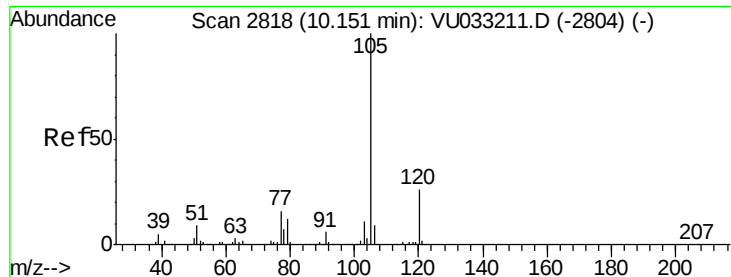
78 46.2 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 215.823 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

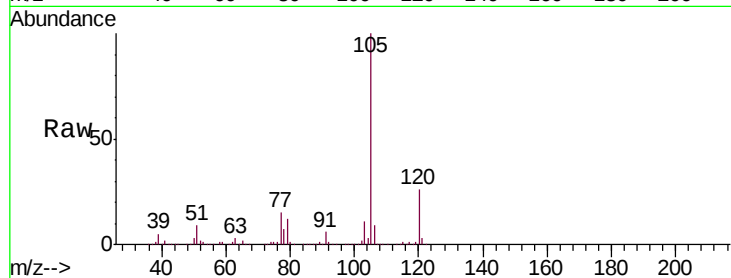
MSVOA_U

ClientSampleId :

VSTD20036

Tgt Ion:105 Resp: 2498197

Ion	Ratio	Lower	Upper
105	100		
120	26.4	21.2	31.8
77	15.5	12.9	19.3

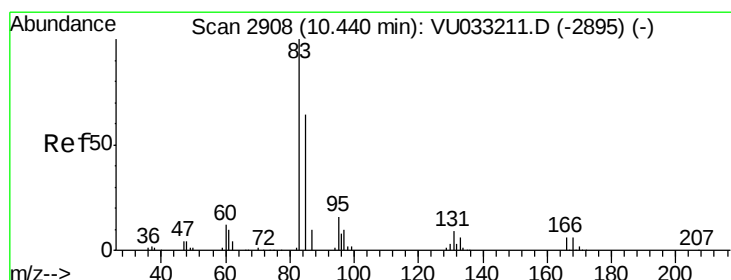
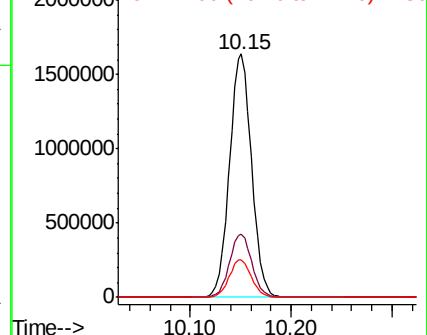
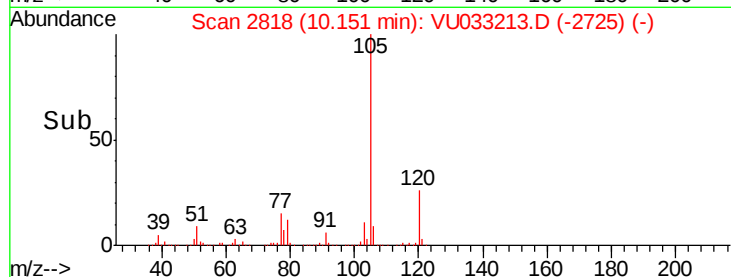


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 206.061 ug/L

RT: 10.44 min Scan# 2908

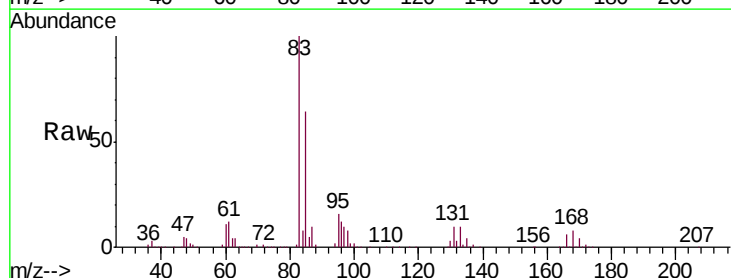
Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Tgt Ion: 83 Resp: 932182

Ion	Ratio	Lower	Upper
83	100		
85	64.3	44.9	83.3
131	9.7	7.6	11.4

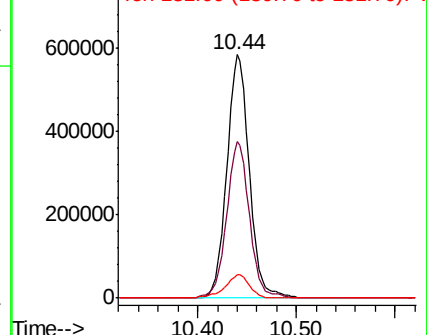
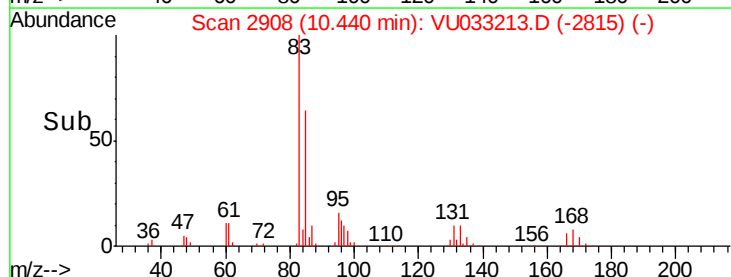


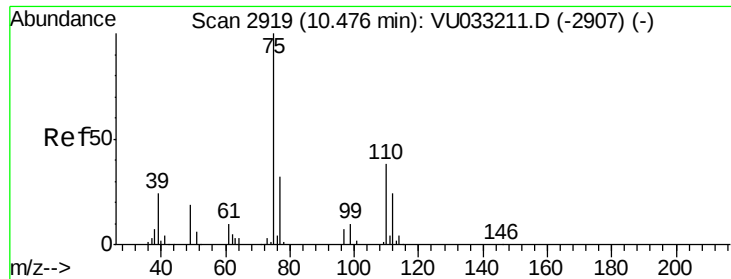
Abundance

Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

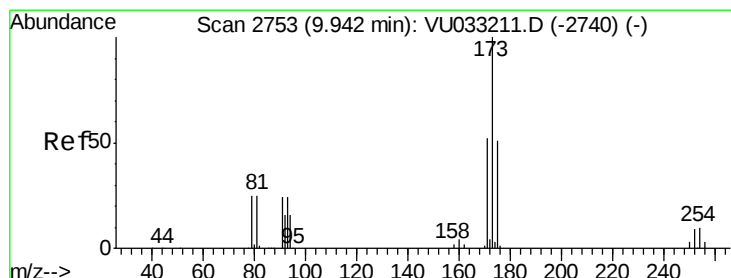
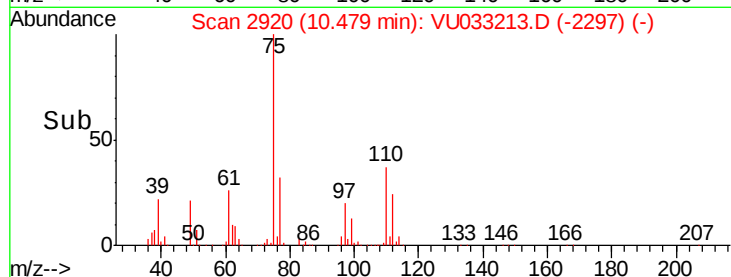
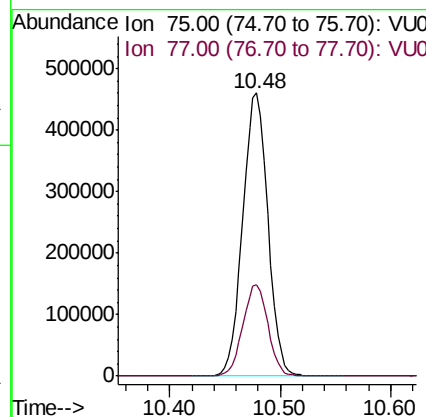
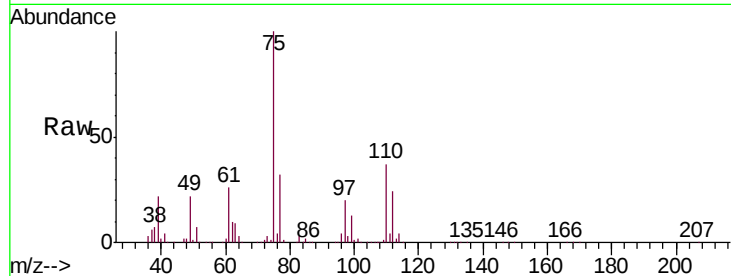




#59
 1,2,3-Trichloropropane
 Concen: 203.763 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033213.D
 Acq: 12 Jul 2019 10:50

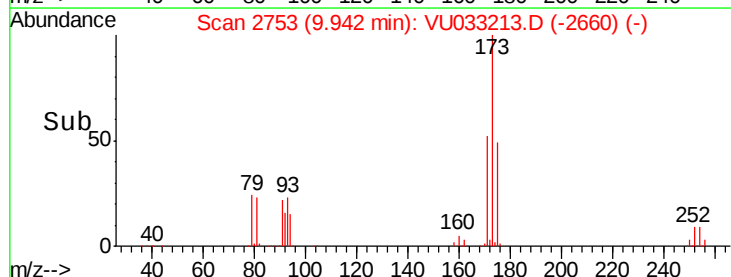
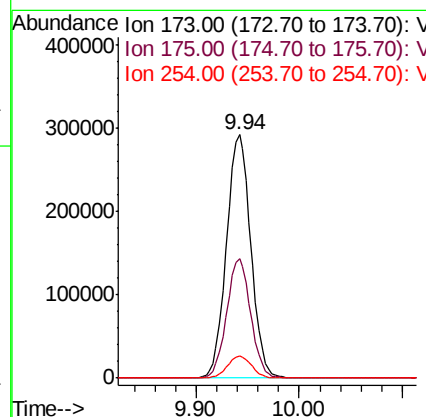
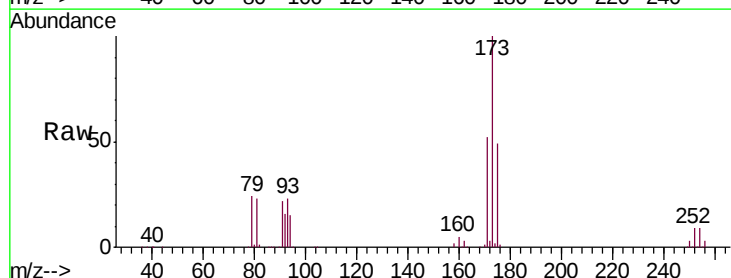
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

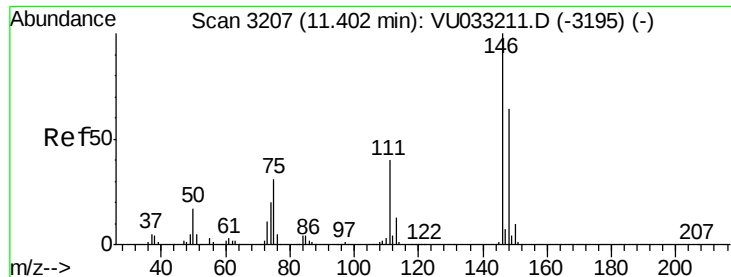
Tgt Ion: 75 Resp: 726557
 Ion Ratio Lower Upper
 75 100
 77 32.1 26.0 39.0



#61
 Bromoform
 Concen: 204.576 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. -0.00 min
 Lab File: VU033213.D
 Acq: 12 Jul 2019 10:50

Tgt Ion: 173 Resp: 481215
 Ion Ratio Lower Upper
 173 100
 175 48.4 40.0 60.0
 254 9.1 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 204.523 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

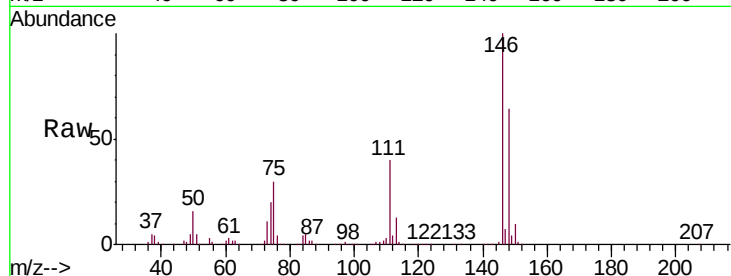
Tgt Ion:146 Resp: 1161323

Ion Ratio Lower Upper

146 100

111 40.3 28.0 52.0

148 64.2 44.7 83.1

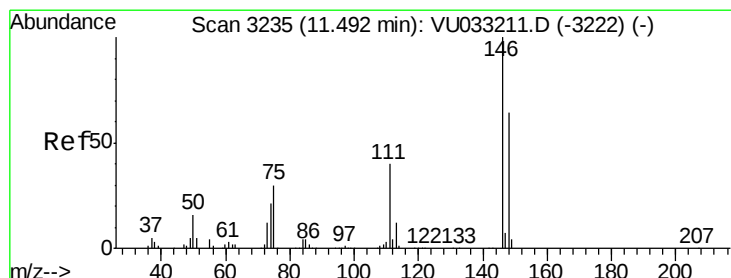
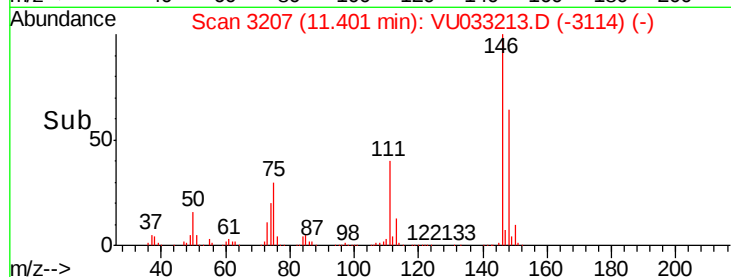
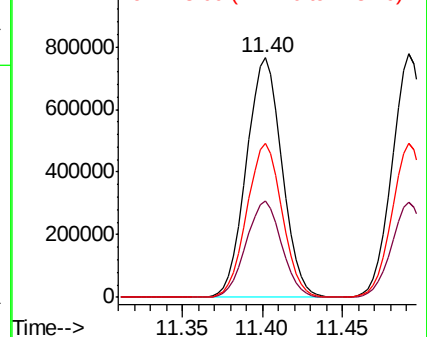


Abundance

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: 199.851 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

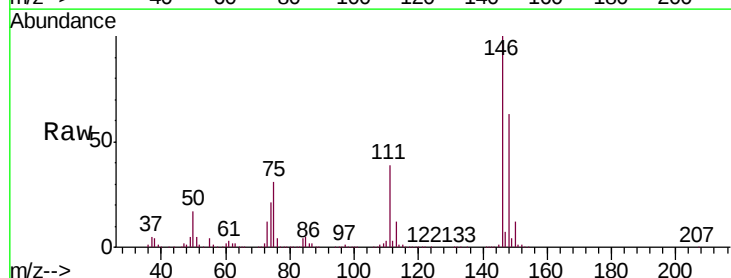
Tgt Ion:146 Resp: 1175020

Ion Ratio Lower Upper

146 100

111 39.0 27.8 51.6

148 63.1 44.6 82.8

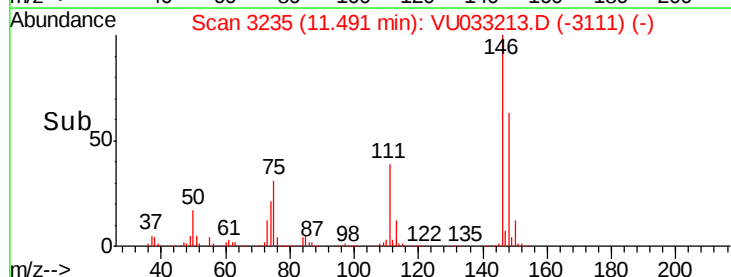
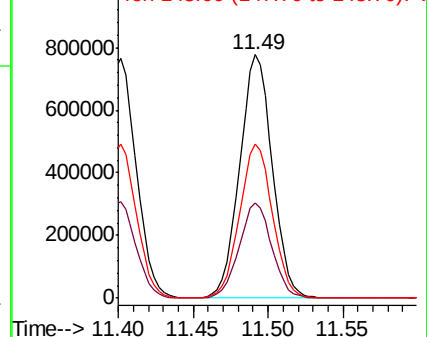


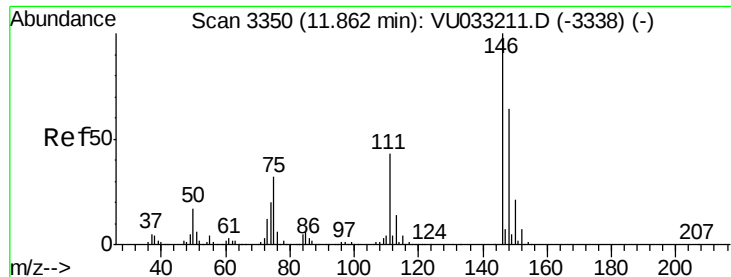
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 201.653 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

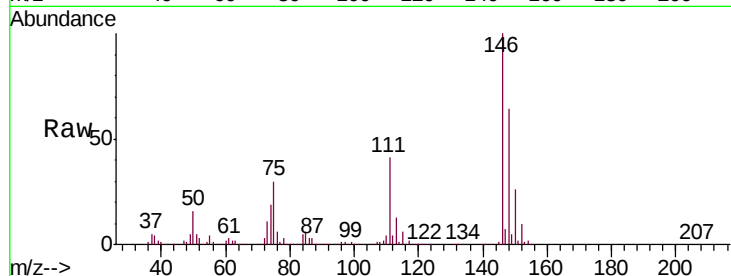
Tgt Ion:146 Resp: 1171843

Ion Ratio Lower Upper

146 100

111 41.1 34.3 51.5

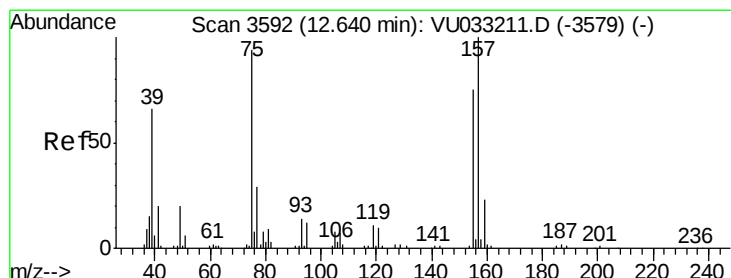
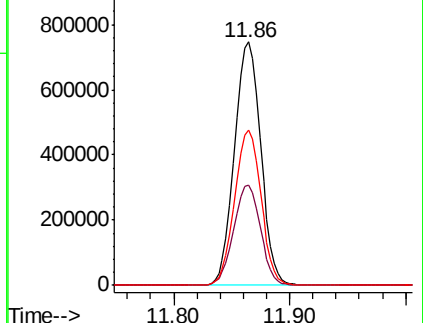
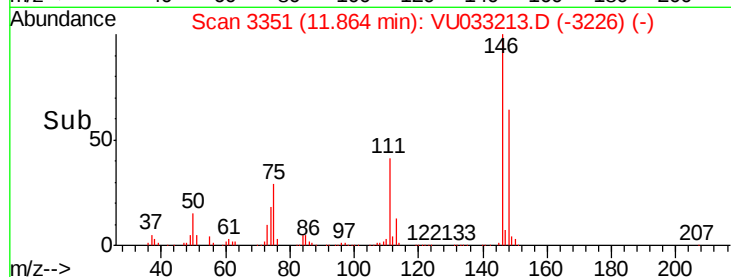
148 63.9 51.5 77.3



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



#66

1,2-Dibromo-3-chloropropane

Concen: 203.394 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. 0.00 min

Lab File: VU033213.D

Acq: 12 Jul 2019 10:50

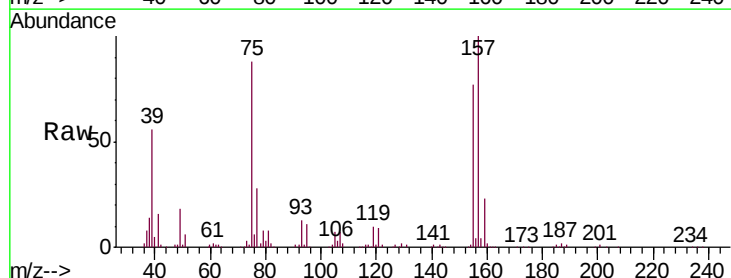
Tgt Ion: 75 Resp: 223641

Ion Ratio Lower Upper

75 100

155 86.9 63.5 95.3

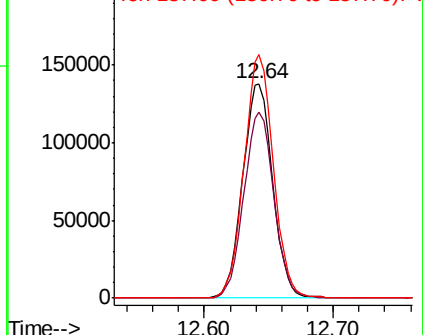
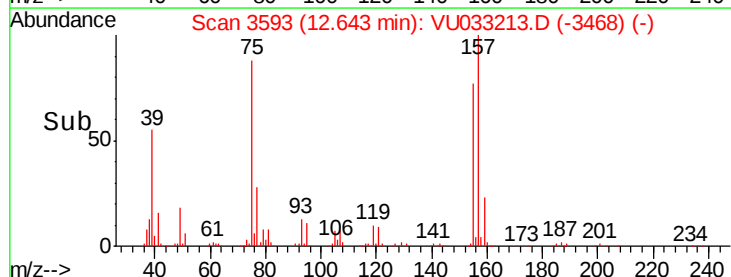
157 113.5 84.6 127.0

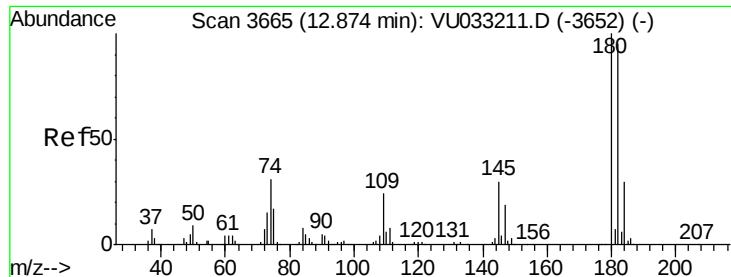


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

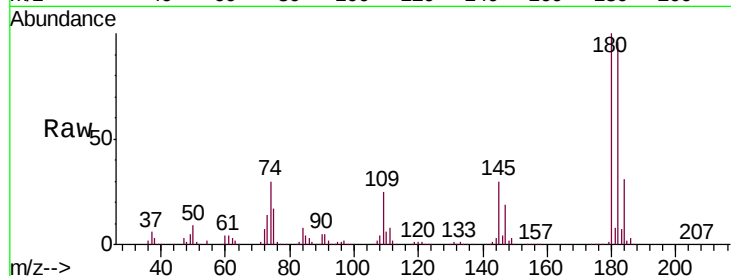




#67
 1,3,5-Trichlorobenzene
 Concen: 193.393 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033213.D
 Acq: 12 Jul 2019 10:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

Tgt Ion:	180	Resp:	871897
Ion	Ratio	Lower	Upper
180	100		
182	96.2	75.5	113.3
184	30.9	24.2	36.2
145	29.9	24.1	36.1



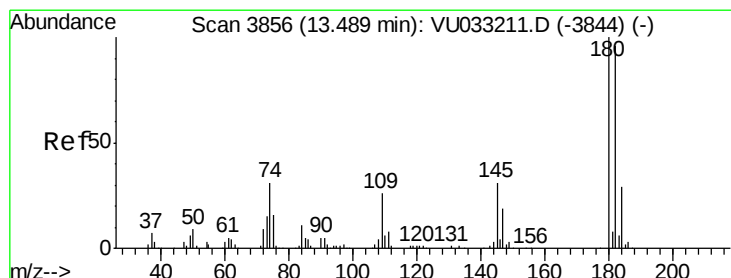
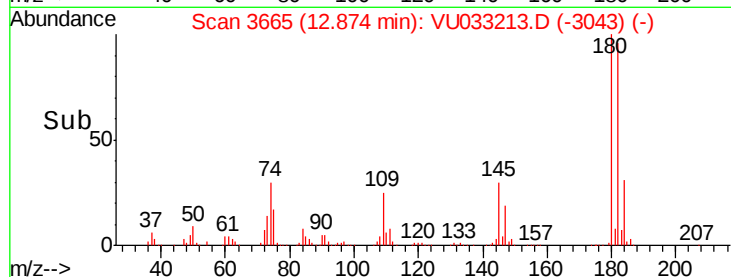
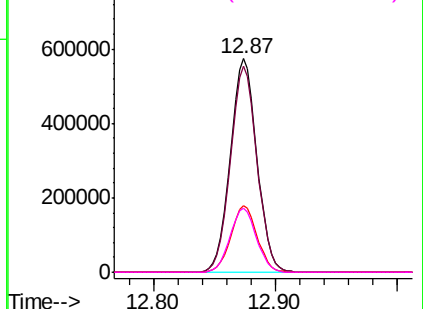
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

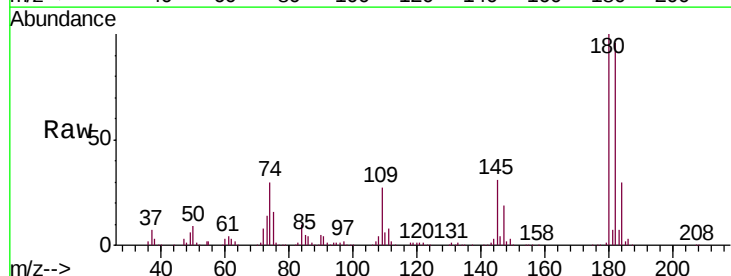
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 209.967 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033213.D
 Acq: 12 Jul 2019 10:50

Tgt Ion:	180	Resp:	808244
Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.5	114.7
145	30.6	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

