

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\
 Data File : VU030687.D
 Acq On : 04 Apr 2019 16:31
 Operator : JC/SP
 Sample : VSTD00546
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00546

Quant Time: Apr 05 01:45:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 05 01:40:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	527720	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	528509	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	233282	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	25365	5.21	ug/L	0.00
7) Chloroethane-d5	1.68	69	18983	5.16	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	46026	5.29	ug/L	0.00
21) 2-Butanone-d5	4.19	46	32508	9.14	ug/L	0.02
24) Chloroform-d	4.64	84	35649	4.99	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	25738	5.15	ug/L	0.00
32) Benzene-d6	5.34	84	76841	4.99	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	26198	4.96	ug/L	0.00
41) Toluene-d8	7.56	98	65717	4.87	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.86	79	10835	4.78	ug/L	0.00
47) 2-Hexanone-d5	8.32	63	19513	8.81	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	35127	4.96	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	23735	5.10	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	27746	5.691	ug/L 98
3) Chloromethane	1.32	50	36199	5.709	ug/L 99
5) Vinyl chloride	1.40	62	33688	5.518	ug/L 90
6) Bromomethane	1.63	94	17131	5.443	ug/L 97
8) Chloroethane	1.69	64	19029	5.460	ug/L 100
9) Trichlorofluoromethane	1.88	101	39652	5.614	ug/L 96
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	23137	5.836	ug/L 97
12) 1,1-Dichloroethene	2.28	96	21084	5.606	ug/L 98
13) Acetone	2.32	43	46163	11.192	ug/L 100
14) Carbon disulfide	2.47	76	65326	5.573	ug/L 98
15) Methyl Acetate	2.61	43	31568	5.306	ug/L 99
16) Methylene chloride	2.70	84	26639	5.701	ug/L 92
17) trans-1,2-Dichloroethene	2.98	96	23318	5.737	ug/L 96
18) Methyl tert-butyl Ether	2.99	73	73100	5.527	ug/L 99
19) 1,1-Dichloroethane	3.44	63	45243	5.472	ug/L 99
20) cis-1,2-Dichloroethene	4.22	96	23908	5.458	ug/L 97
22) 2-Butanone	4.27	43	41936	9.596	ug/L # 75
23) Bromochloromethane	4.55	128	11390	5.533	ug/L 94
25) Chloroform	4.67	83	48563	5.740	ug/L 98
27) 1,2-Dichloroethane	5.40	62	34439	5.432	ug/L 99
29) Cyclohexane	4.99	56	39505	5.262	ug/L 99
30) 1,1,1-Trichloroethane	4.91	97	35742	5.427	ug/L 97
31) Carbon tetrachloride	5.13	117	31107	5.494	ug/L 98
33) Benzene	5.39	78	91749	5.237	ug/L 100
34) Trichloroethene	6.19	95	23666	5.488	ug/L 94
35) Methylcyclohexane	6.41	83	34531	5.345	ug/L 96
37) 1,2-Dichloropropane	6.43	63	26174	5.238	ug/L # 97
38) Bromodichloromethane	6.75	83	32948	5.498	ug/L # 93
39) cis-1,3-Dichloropropene	7.27	75	33477	5.035	ug/L 95
40) 4-Methyl-2-pentanone	7.46	43	75081	9.864	ug/L 99

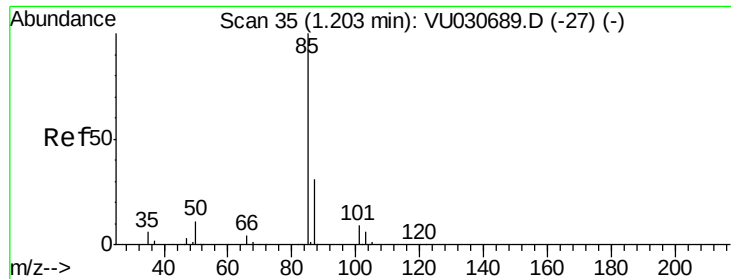
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\
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 QLast Update : Fri Apr 05 01:40:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	91811	5.197	ug/L	96
44) trans-1,3-Dichloropropene	7.88	75	29523	5.017	ug/L	96
45) 1,1,2-Trichloroethane	8.07	97	23189	5.505	ug/L	97
46) Tetrachloroethene	8.22	164	17399	5.490	ug/L	98
48) 2-Hexanone	8.37	43	54942	9.391	ug/L	98
49) Dibromochloromethane	8.47	129	23706	5.359	ug/L	97
50) 1,2-Dibromoethane	8.58	107	24292	5.364	ug/L	97
51) Chlorobenzene	9.12	112	60717	5.516	ug/L	98
52) Ethylbenzene	9.25	91	102111	5.329	ug/L	96
53) m,p-Xylene	9.38	106	33642	5.144	ug/L	98
54) o-xylene	9.78	106	34439	5.240	ug/L	97
55) Styrene	9.79	104	56278	5.083	ug/L	98
56) Isopropylbenzene	10.16	105	89928	5.209	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	40592	5.333	ug/L	95
59) 1,2,3-Trichloropropane	10.49	75	31690	5.355	ug/L	99
61) Bromoform	9.96	173	16956	5.418	ug/L #	93
62) 1,3-Dichlorobenzene	11.42	146	39951	5.303	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	43123	5.611	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	41593	5.457	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	8062	5.136	ug/L	98
67) 1,3,5-Trichlorobenzene	12.89	180	29513	5.434	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	22407	5.075	ug/L	91
69) Naphthalene	13.75	128	60940	4.495	ug/L	96
70) 1,2,3-Trichlorobenzene	13.99	180	24936	5.298	ug/L	87

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



#2

Dichlorodifluoromethane

Concen: 5.691 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

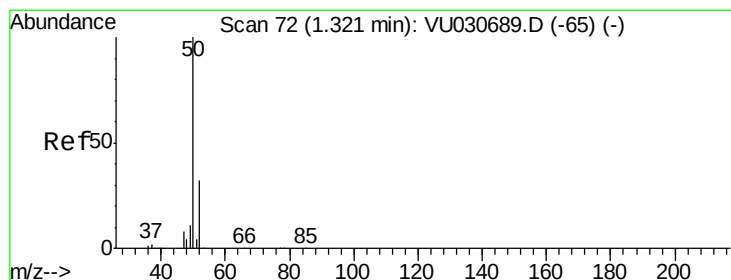
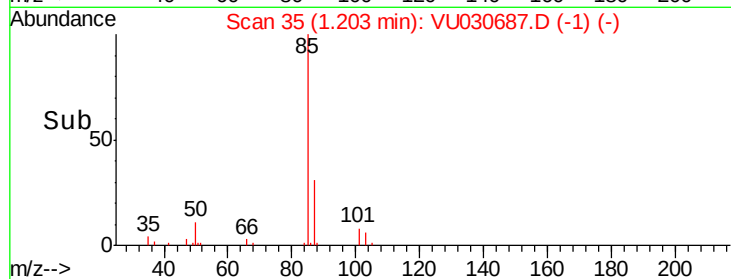
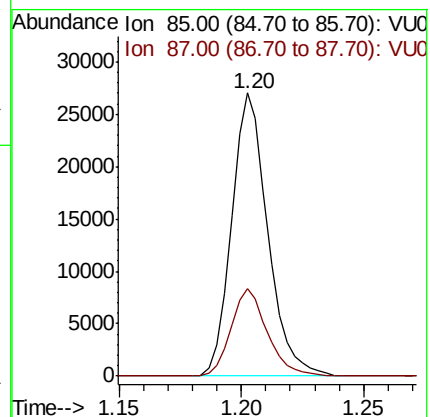
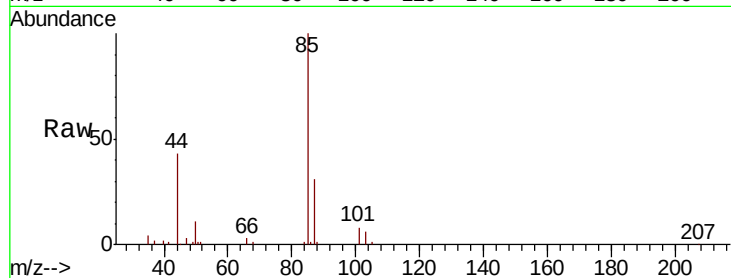
VSTD00546

Tot Ion: 85 Resp: 27746

Ion Ratio Lower Upper

85 100

87 31.0 25.7 38.5



#3

Chloromethane

Concen: 5.709 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU030687.D

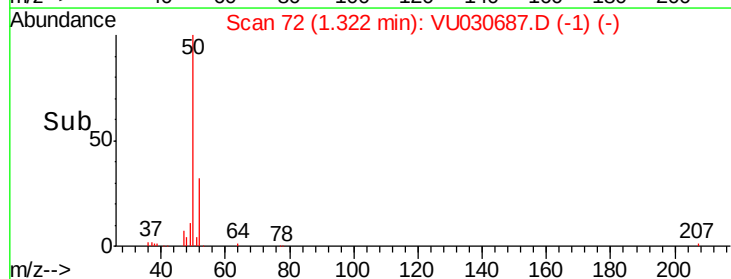
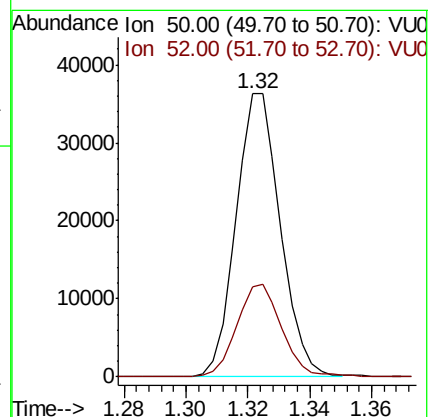
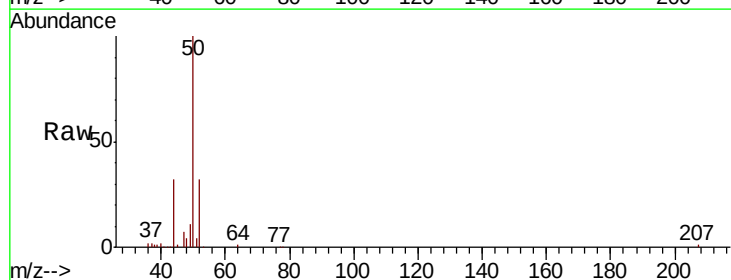
Acq: 04 Apr 2019 16:31

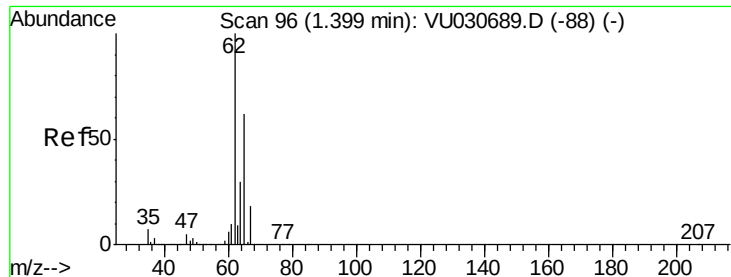
Tgt Ion: 50 Resp: 36199

Ion Ratio Lower Upper

50 100

52 31.7 22.7 42.1





#5

Vinyl chloride

Concen: 5.518 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

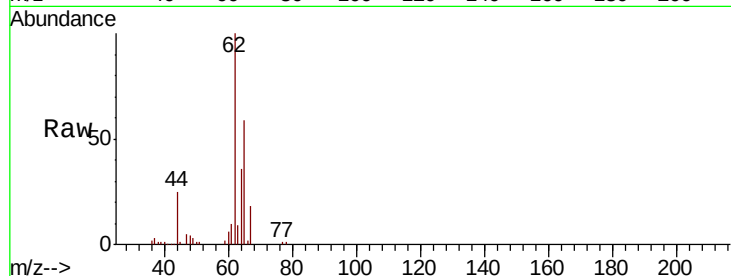
VSTD00546

Tot Ion: 62 Resp: 33688

Ion Ratio Lower Upper

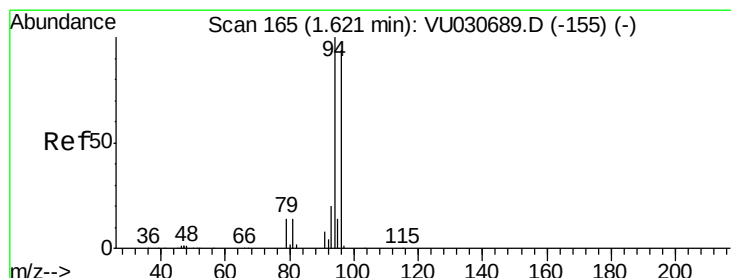
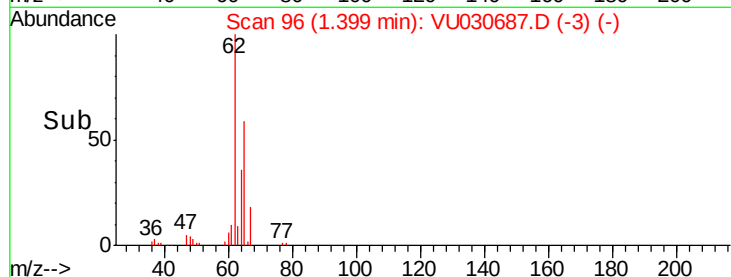
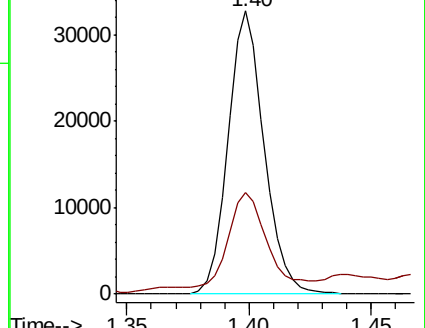
62 100

64 36.0 21.5 39.9



Abundance Ion 62.00 (61.70 to 62.70): VU030687.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU030687.D (-88) (-)



#6

Bromomethane

Concen: 5.443 ug/L

RT: 1.63 min Scan# 167

Delta R.T. 0.01 min

Lab File: VU030687.D

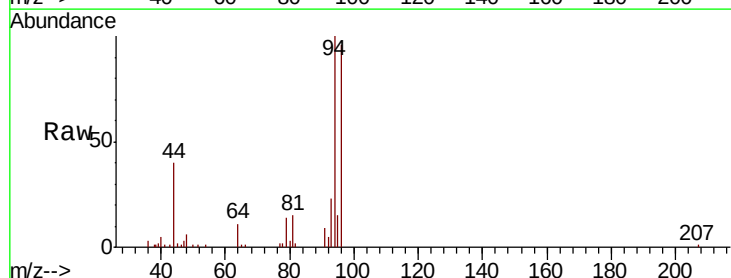
Acq: 04 Apr 2019 16:31

Tgt Ion: 94 Resp: 17131

Ion Ratio Lower Upper

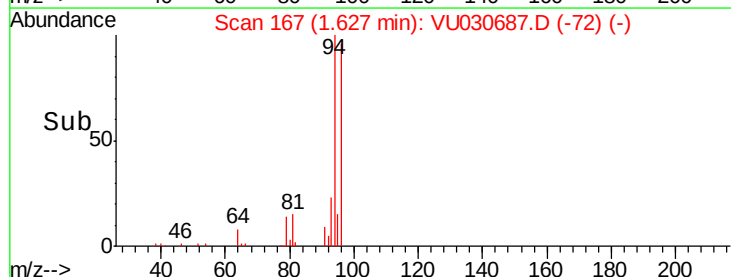
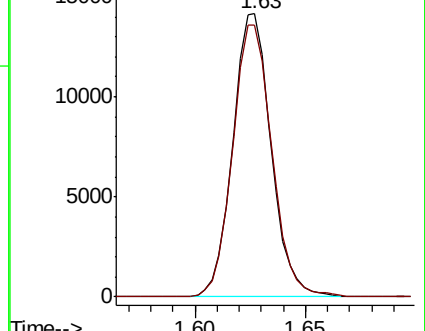
94 100

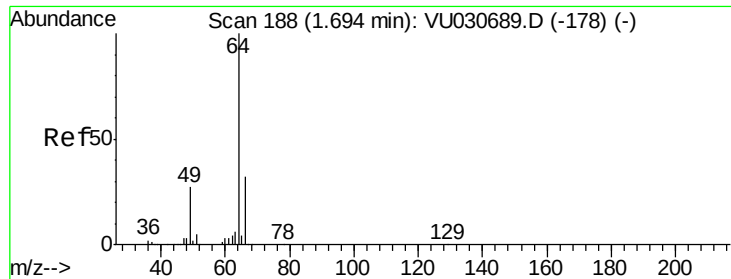
96 96.1 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VU030687.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU030687.D (-155) (-)





#8

Chloroethane

Concen: 5.460 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

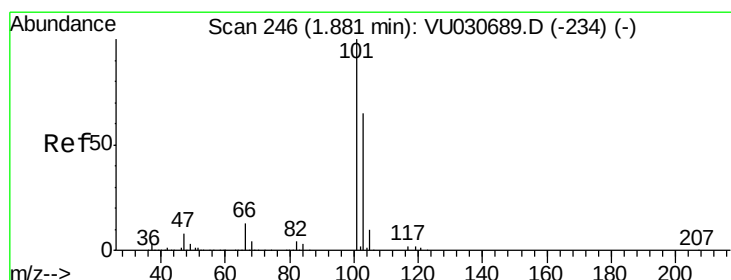
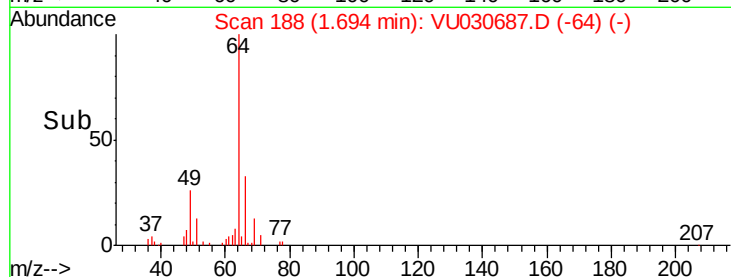
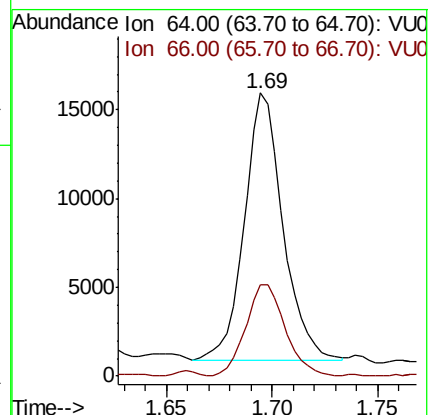
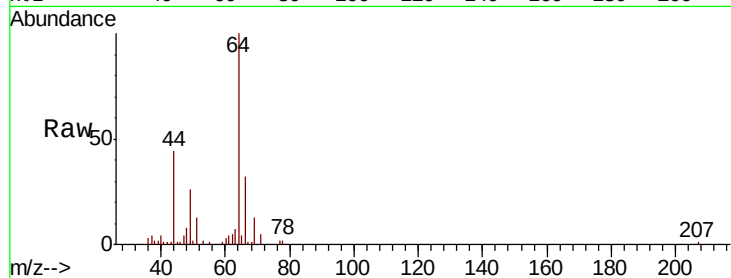
VSTD00546

Tot Ion: 64 Resp: 19029

Ion Ratio Lower Upper

64 100

66 32.1 22.4 41.6



#9

Trichlorofluoromethane

Concen: 5.614 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU030687.D

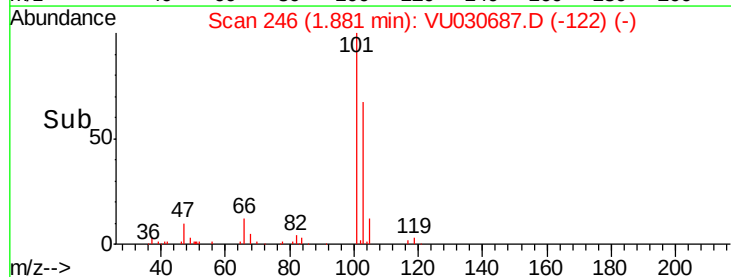
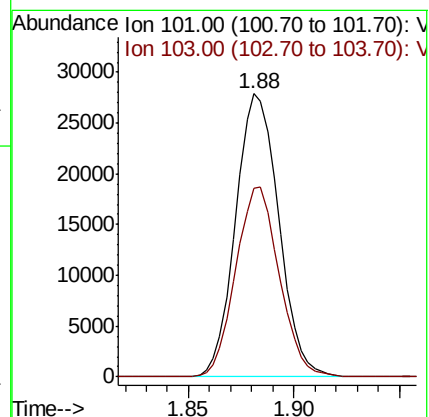
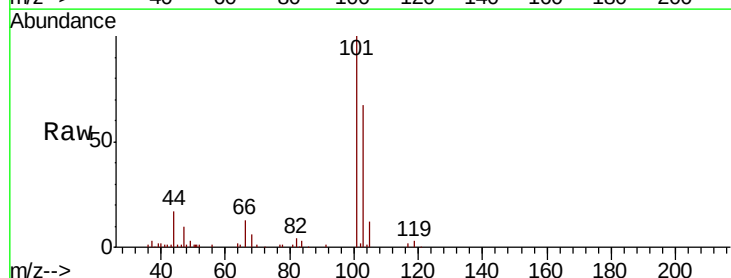
Acq: 04 Apr 2019 16:31

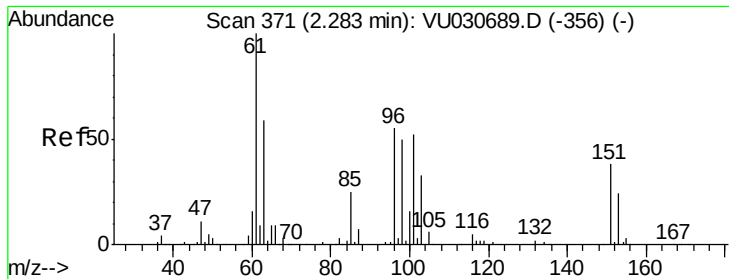
Tgt Ion: 101 Resp: 39652

Ion Ratio Lower Upper

101 100

103 67.8 51.8 77.8





#10

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

Concen: 5.836 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

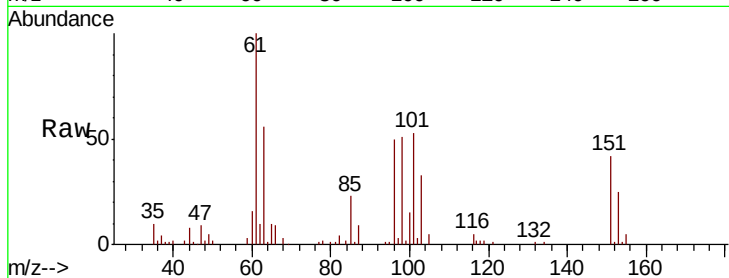
Tot Ion:101 Resp: 23137

Ion Ratio Lower Upper

101 100

85 44.2 36.8 55.2

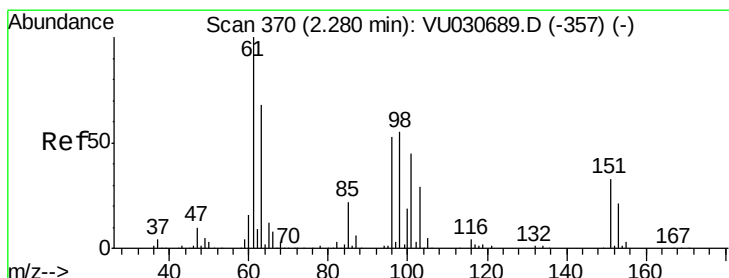
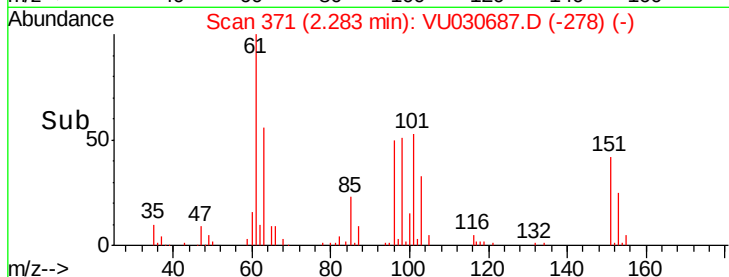
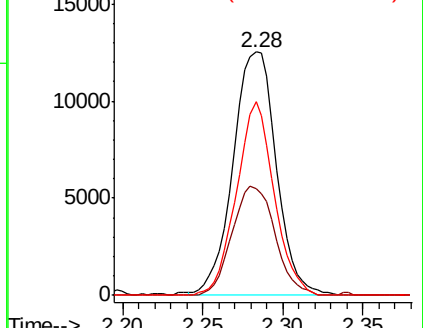
151 69.0 57.4 86.0



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: 5.606 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

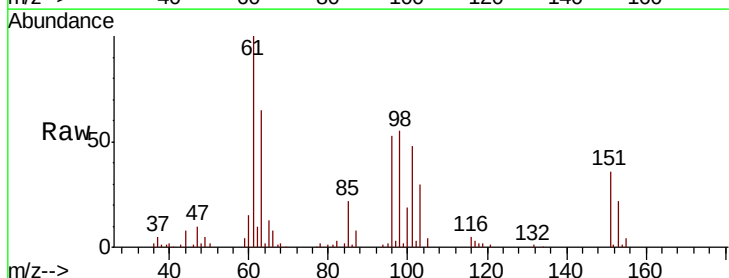
Tgt Ion: 96 Resp: 21084

Ion Ratio Lower Upper

96 100

61 189.6 132.0 245.2

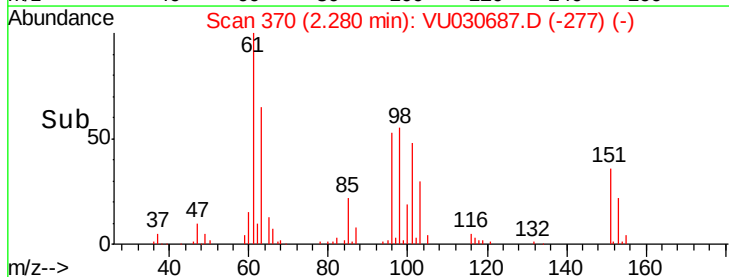
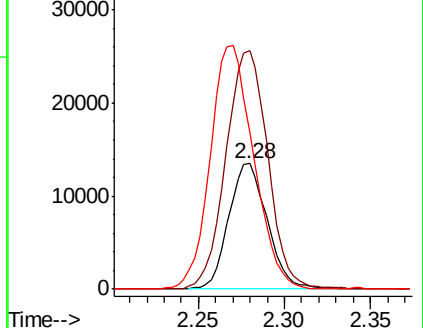
63 124.1 90.9 168.9

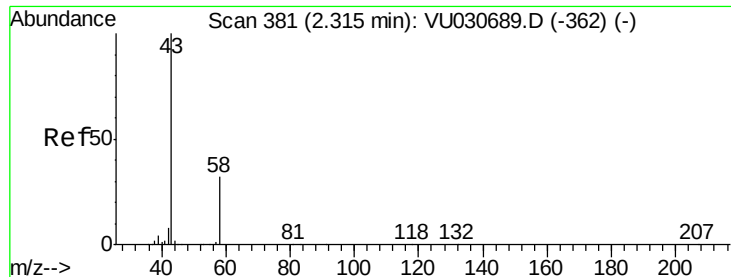


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 11.192 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

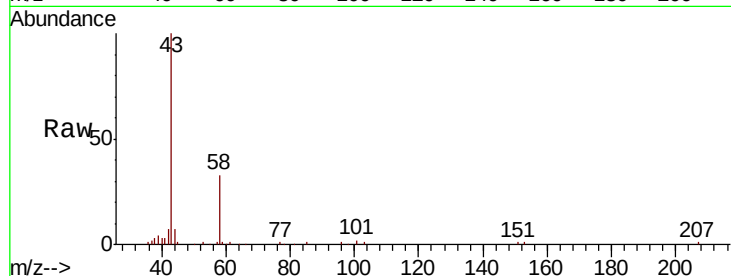
VSTD00546

Tot Ion: 43 Resp: 46163

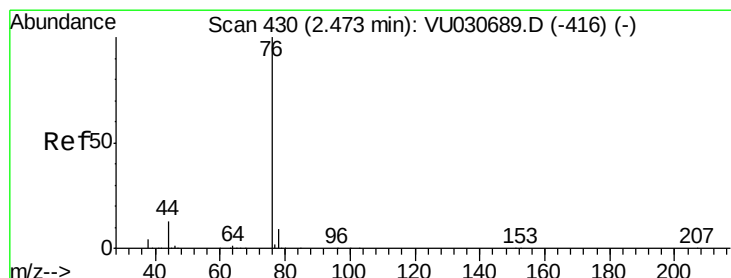
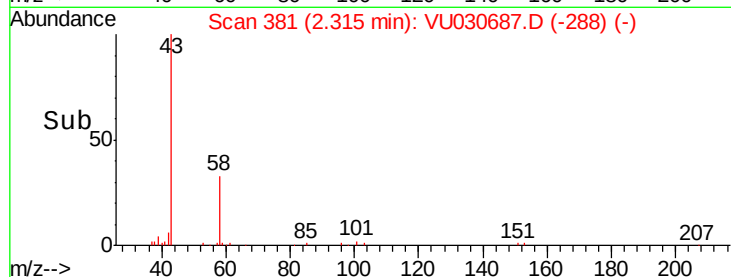
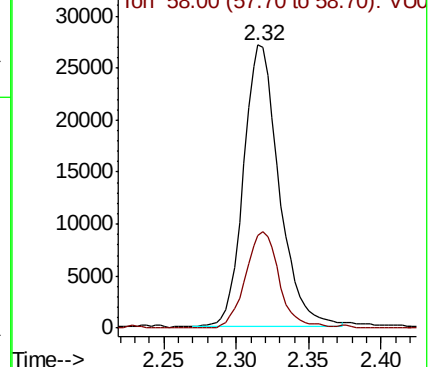
Ion Ratio Lower Upper

43 100

58 31.8 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU030687.D (-362) (-)



#14

Carbon disulfide

Concen: 5.573 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU030687.D

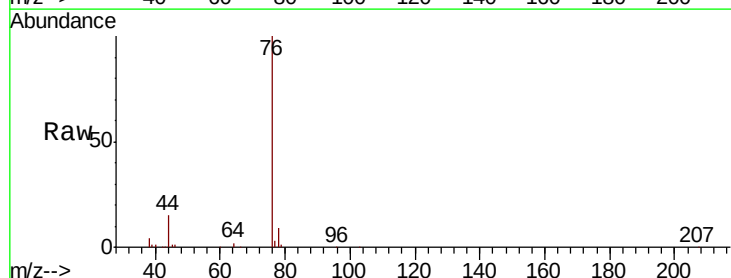
Acq: 04 Apr 2019 16:31

Tgt Ion: 76 Resp: 65326

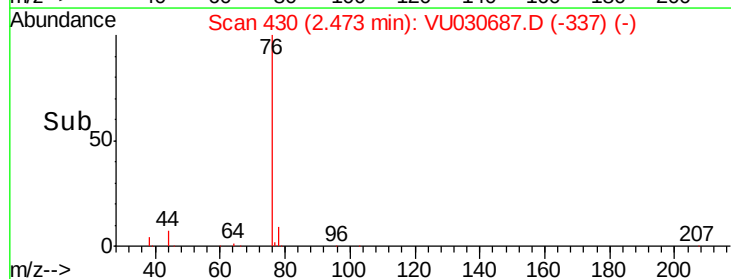
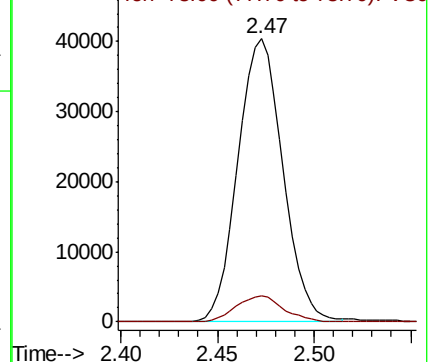
Ion Ratio Lower Upper

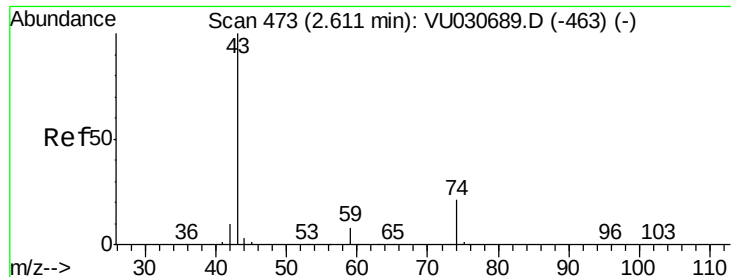
76 100

78 9.2 7.0 10.4



Abundance Ion 76.00 (75.70 to 76.70): VU030687.D (-416) (-)





#15

Methyl Acetate

Concen: 5.306 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

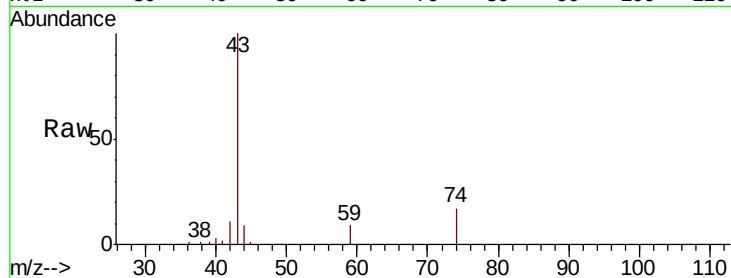
VSTD00546

Tot Ion: 43 Resp: 31568

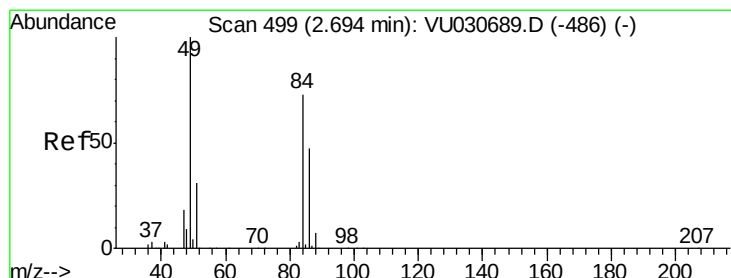
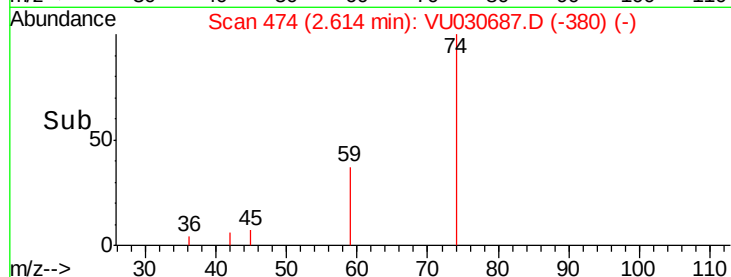
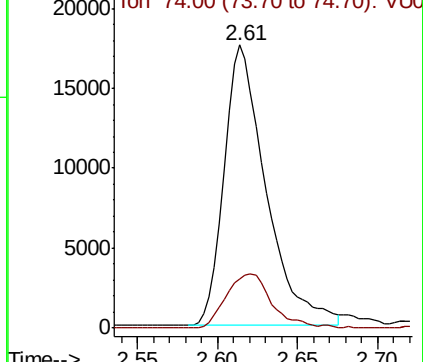
Ion Ratio Lower Upper

43 100

74 20.7 17.1 25.7



Abundance Ion 43.00 (42.70 to 43.70): VU030687.D (-380) (-)



#16

Methylene chloride

Concen: 5.701 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

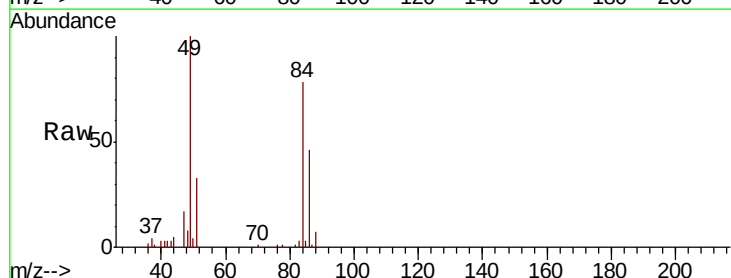
Tgt Ion: 84 Resp: 26639

Ion Ratio Lower Upper

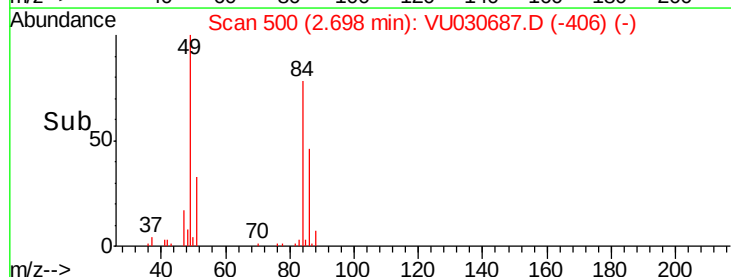
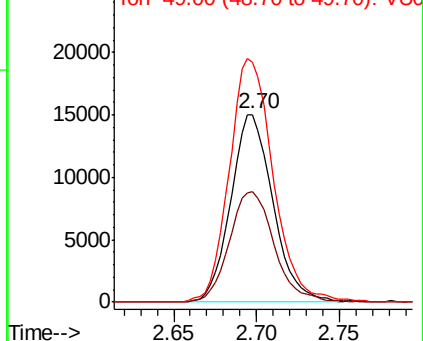
84 100

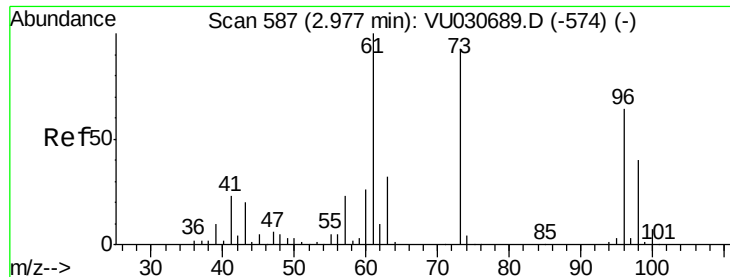
86 58.5 45.1 83.7

49 127.4 96.5 179.1



Abundance Ion 84.00 (83.70 to 84.70): VU030687.D (-406) (-)

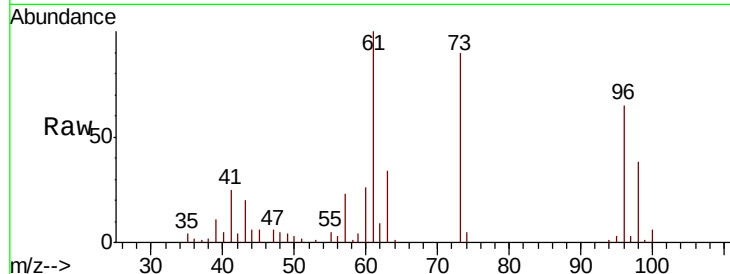




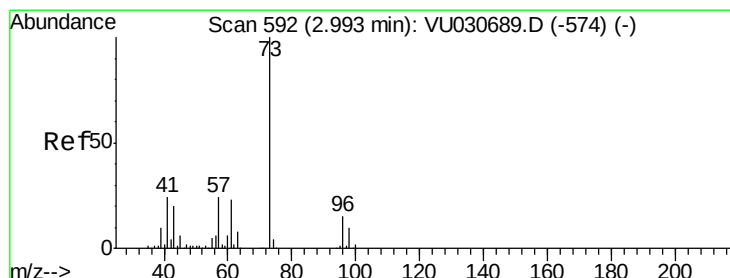
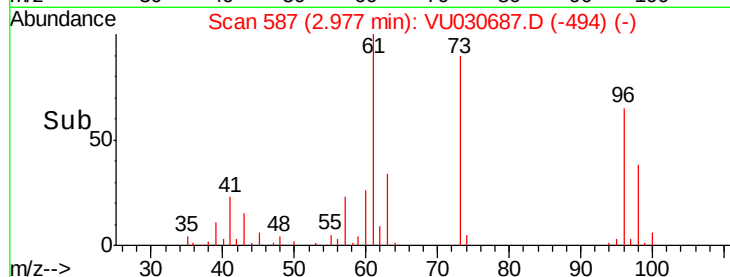
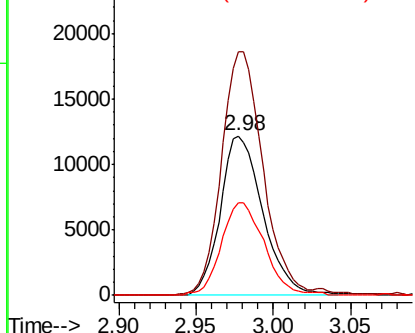
#17
trans-1,2-Dichloroethene
Concen: 5.737 ug/L
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU030687.D
Acq: 04 Apr 2019 16:31

Instrument :
MSVOA_U
ClientSampleId :
VSTD00546

Tot Ion: 96 Resp: 23318
Ion Ratio Lower Upper
96 100
61 152.7 109.5 203.3
98 58.5 44.0 81.6

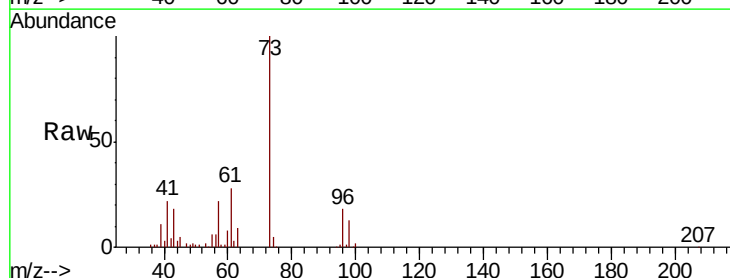


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

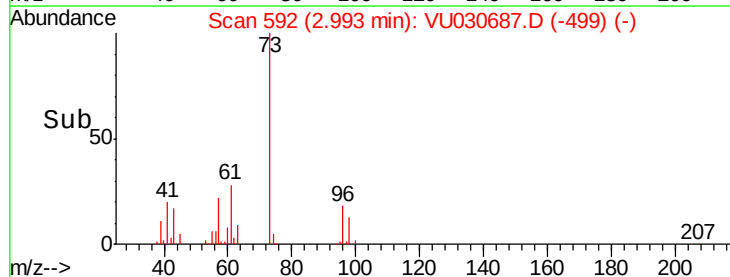
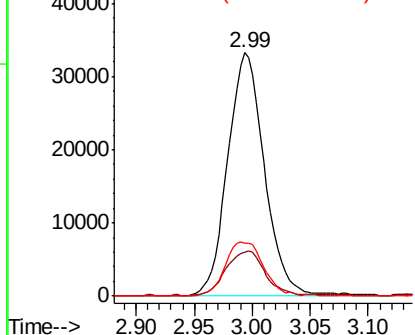


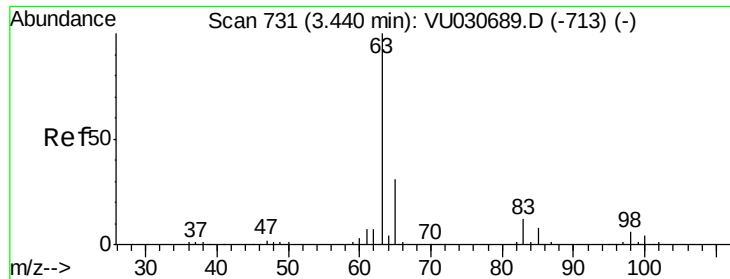
#18
Methyl tert-butyl Ether
Concen: 5.527 ug/L
RT: 2.99 min Scan# 592
Delta R.T. 0.00 min
Lab File: VU030687.D
Acq: 04 Apr 2019 16:31

Tgt Ion: 73 Resp: 73100
Ion Ratio Lower Upper
73 100
43 19.9 16.4 24.6
57 22.9 19.0 28.4



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

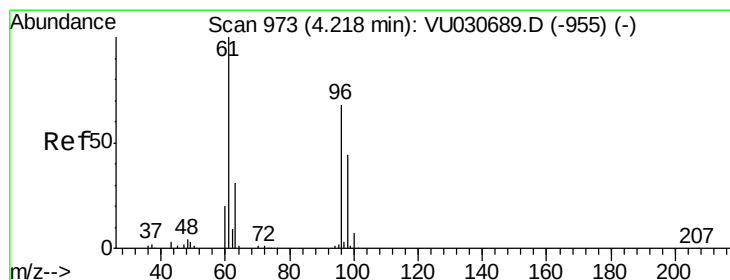
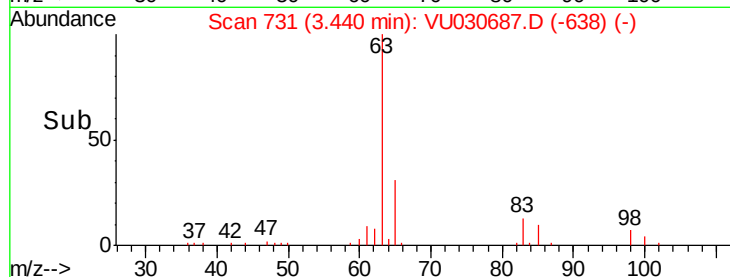
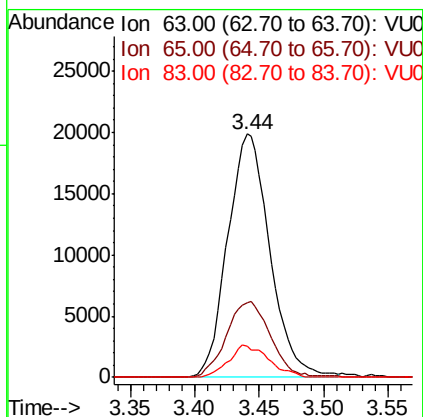
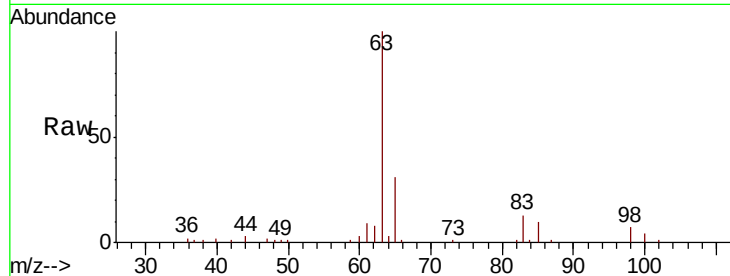




#19
 1,1-Dichloroethane
 Concen: 5.472 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU030687.D
 Acq: 04 Apr 2019 16:31

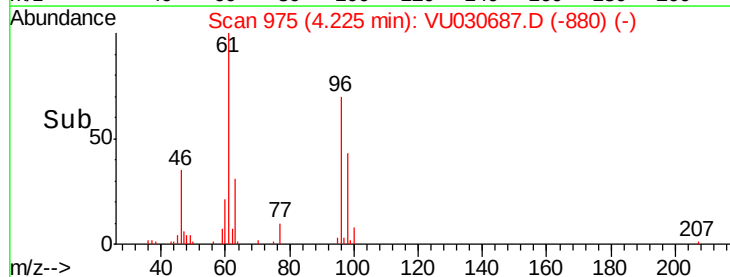
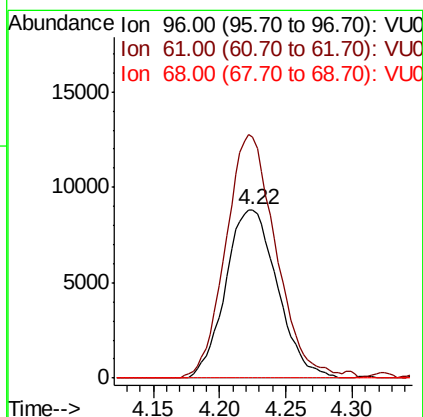
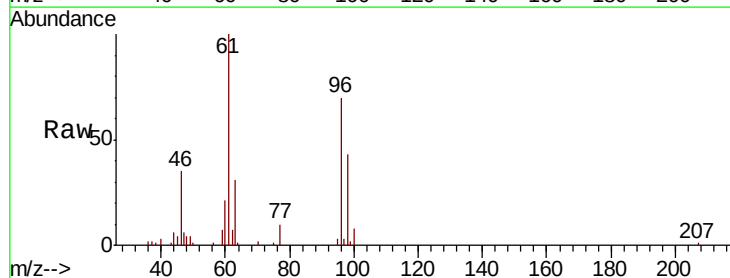
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00546

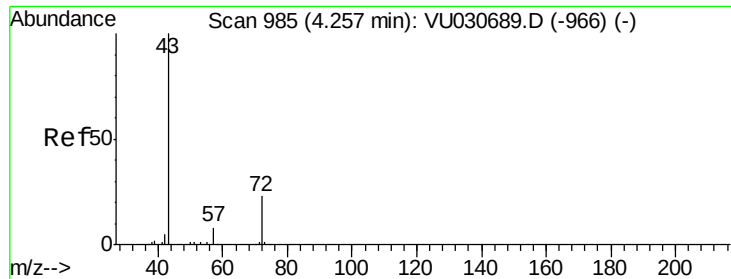
Tot Ion: 63 Resp: 45243
 Ion Ratio Lower Upper
 63 100
 65 30.8 21.4 39.8
 83 12.8 8.5 15.7



#20
 cis-1,2-Dichloroethene
 Concen: 5.458 ug/L
 RT: 4.22 min Scan# 975
 Delta R.T. 0.01 min
 Lab File: VU030687.D
 Acq: 04 Apr 2019 16:31

Tgt Ion: 96 Resp: 23908
 Ion Ratio Lower Upper
 96 100
 61 143.1 102.9 191.1
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 9.596 ug/L

RT: 4.27 min Scan# 989

Delta R.T. 0.01 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

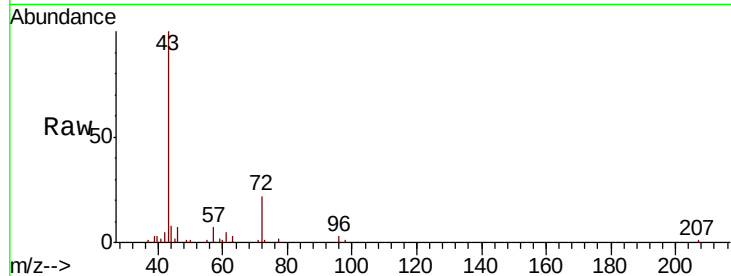
VSTD00546

Tot Ion: 43 Resp: 41936

Ion Ratio Lower Upper

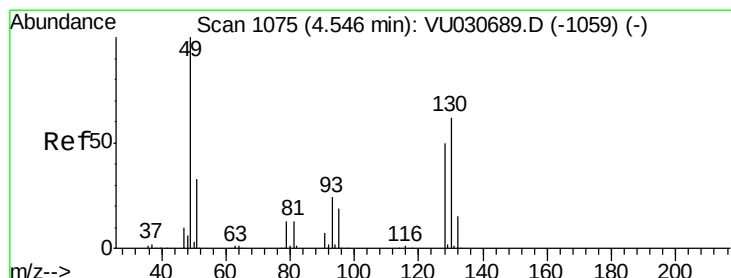
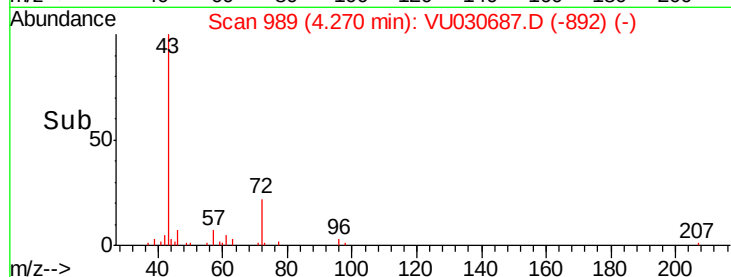
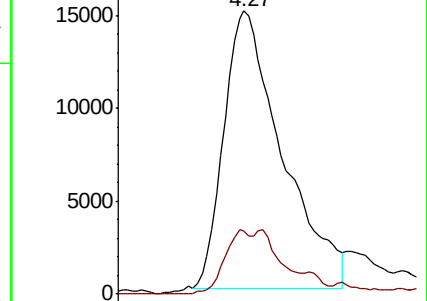
43 100

72 9.7 10.8 32.4#



Abundance Ion 43.00 (42.70 to 43.70): VU030687.D (-892) (-)

Ion 72.00 (71.70 to 72.70): VU030687.D (-892) (-)



#23

Bromochloromethane

Concen: 5.533 ug/L

RT: 4.55 min Scan# 1076

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Tgt Ion:128 Resp: 11390

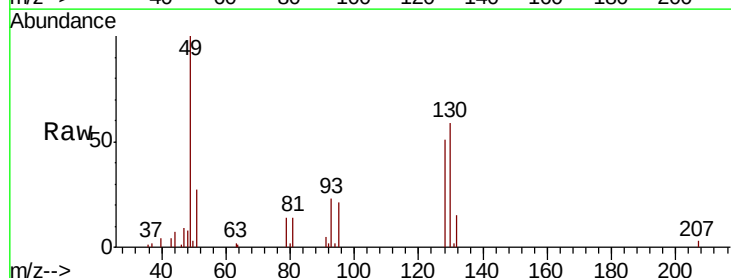
Ion Ratio Lower Upper

128 100

49 194.8 139.9 259.7

130 115.8 86.6 160.8

51 53.1 52.2 78.4

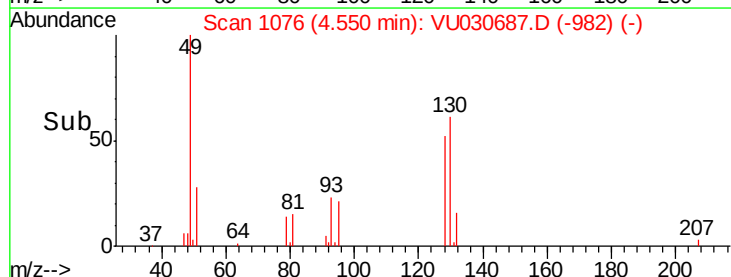
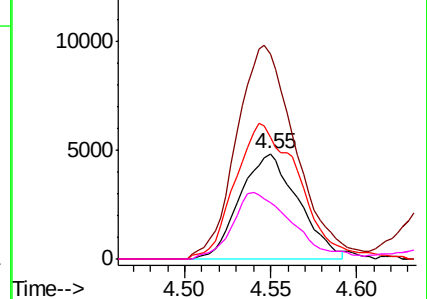


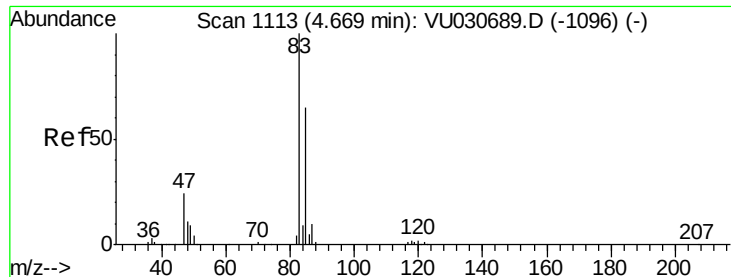
Abundance Ion 128.00 (127.70 to 128.70): VU030687.D (-982) (-)

Ion 49.00 (48.70 to 49.70): VU030687.D (-982) (-)

Ion 130.00 (129.70 to 130.70): VU030687.D (-982) (-)

Ion 51.00 (50.70 to 51.70): VU030687.D (-982) (-)

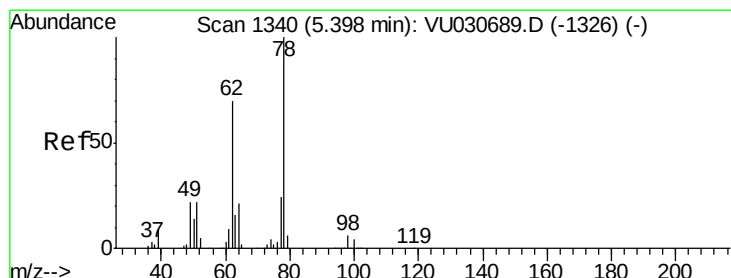
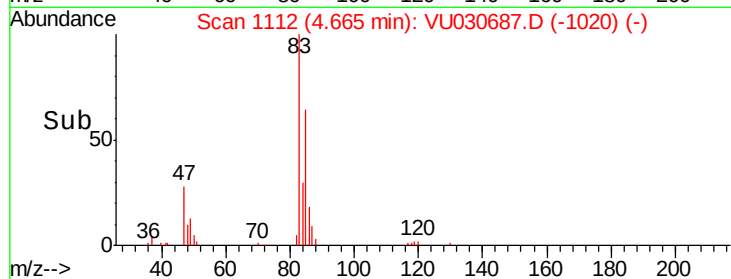
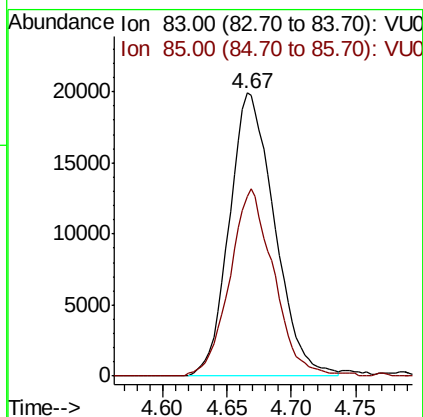
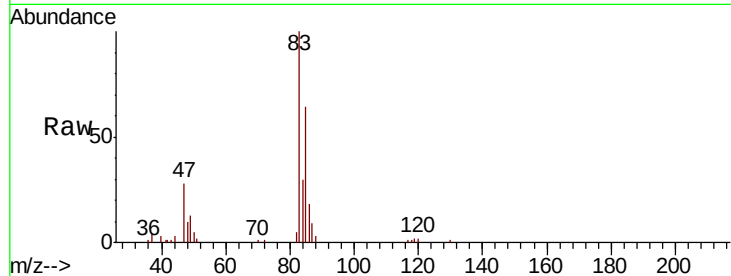




#25
Chloroform
Concen: 5.740 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VU030687.D
Acq: 04 Apr 2019 16:31

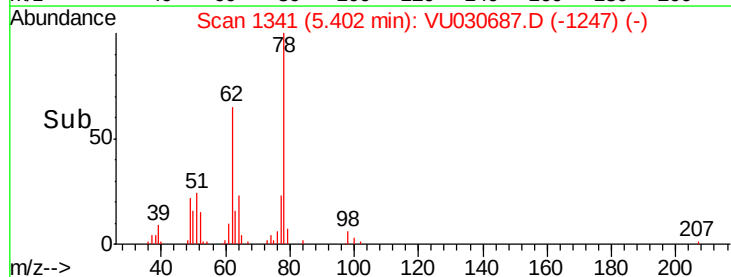
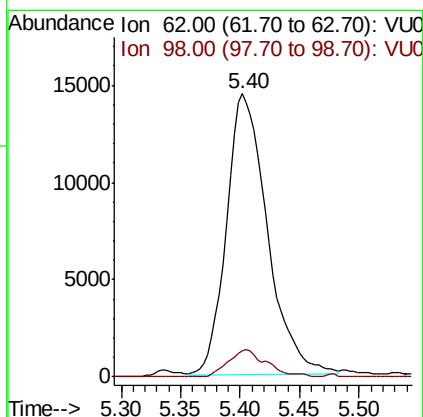
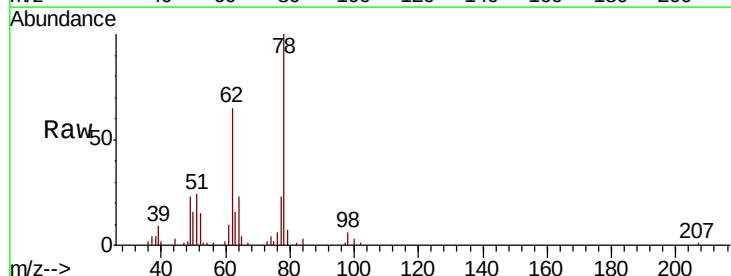
Instrument :
MSVOA_U
ClientSampleId :
VSTD00546

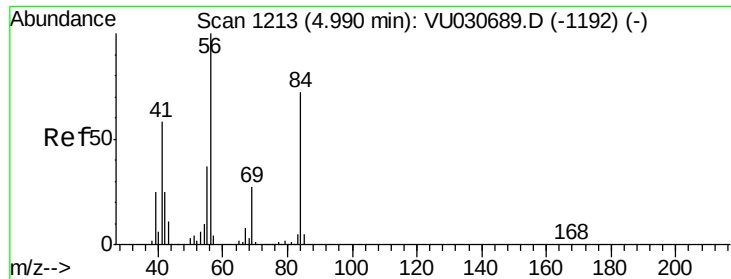
Tot Ion: 83 Resp: 48563
Ion Ratio Lower Upper
83 100
85 63.6 45.8 85.0



#27
1,2-Dichloroethane
Concen: 5.432 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU030687.D
Acq: 04 Apr 2019 16:31

Tgt Ion: 62 Resp: 34439
Ion Ratio Lower Upper
62 100
98 9.3 7.2 10.8





#29

Cyclohexane

Concen: 5.262 ug/L

RT: 4.99 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

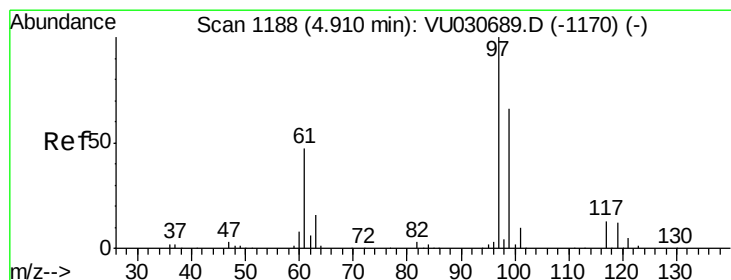
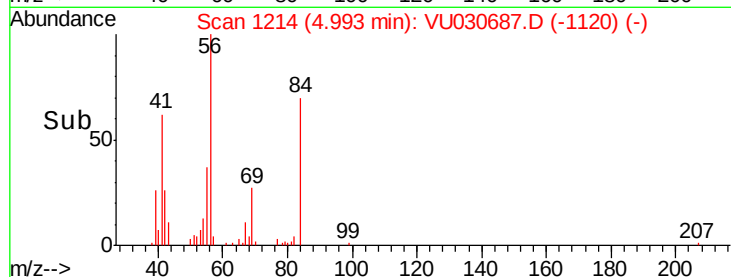
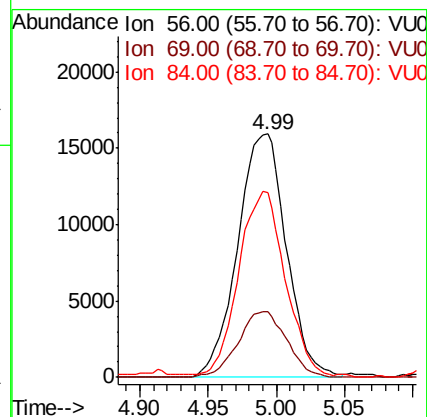
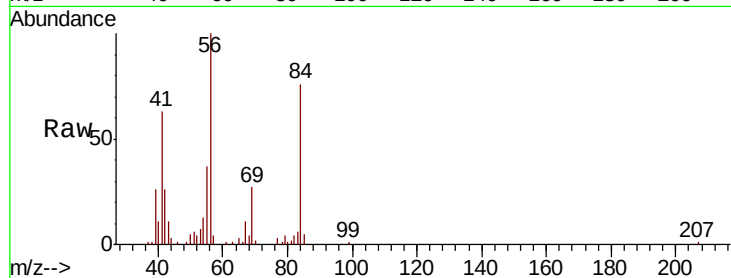
Tot Ion: 56 Resp: 39505

Ion Ratio Lower Upper

56 100

69 27.0 22.0 33.0

84 71.5 58.2 87.2



#30

1,1,1-Trichloroethane

Concen: 5.427 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

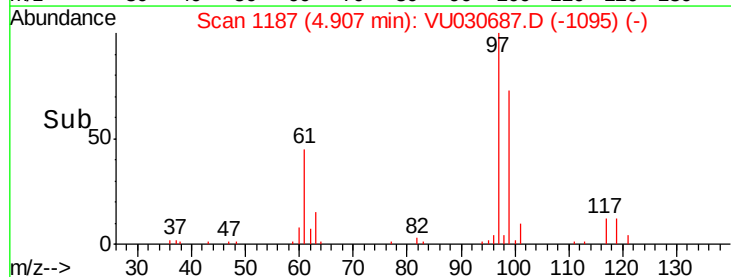
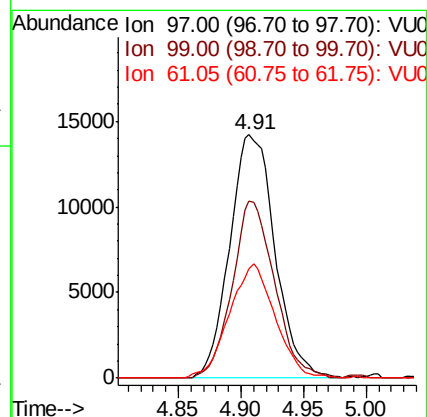
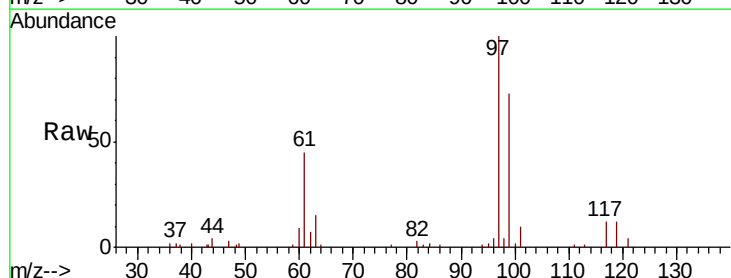
Tgt Ion: 97 Resp: 35742

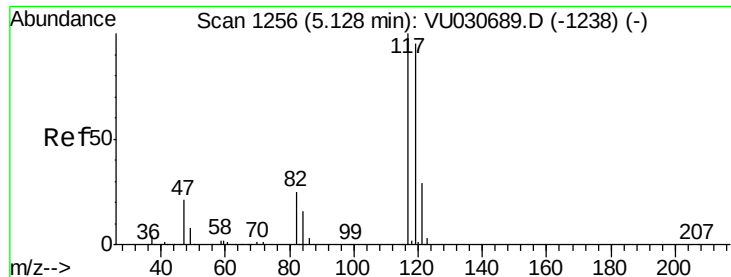
Ion Ratio Lower Upper

97 100

99 67.8 51.4 77.2

61 46.9 37.1 55.7





#31

Carbon tetrachloride

Concen: 5.494 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

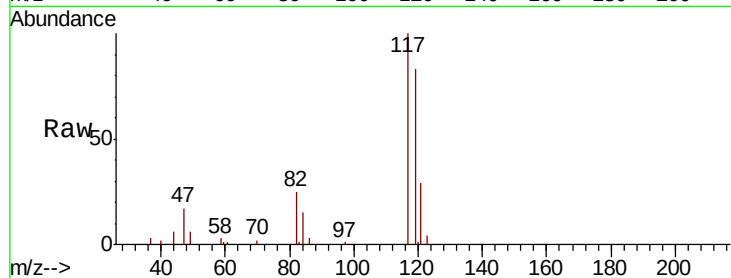
VSTD00546

Tot Ion:117 Resp: 31107

Ion Ratio Lower Upper

117 100

119 92.9 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.13

15000

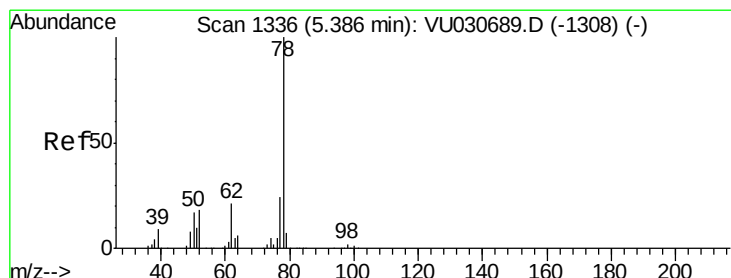
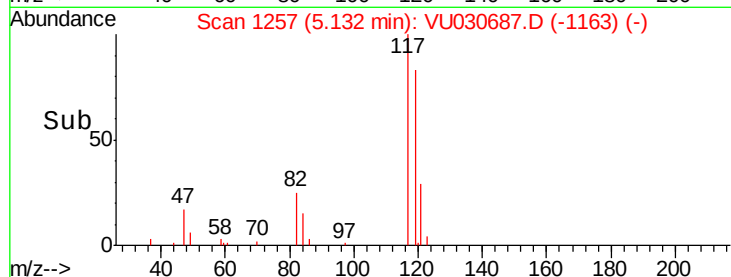
10000

5000

0

Time-->

5.05 5.10 5.15 5.20



#33

Benzene

Concen: 5.237 ug/L

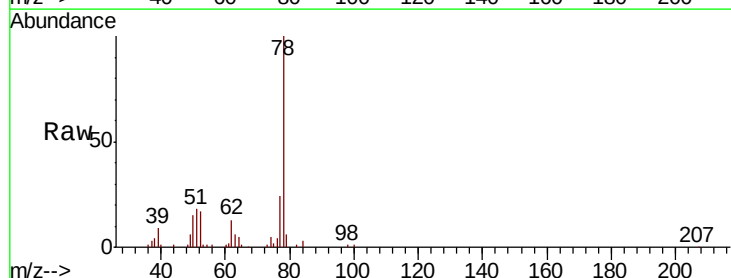
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Tgt Ion: 78 Resp: 91749



Abundance Ion 78.00 (77.70 to 78.70): VU0

50000

40000

30000

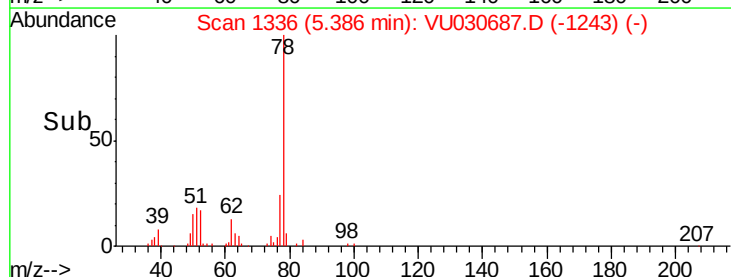
20000

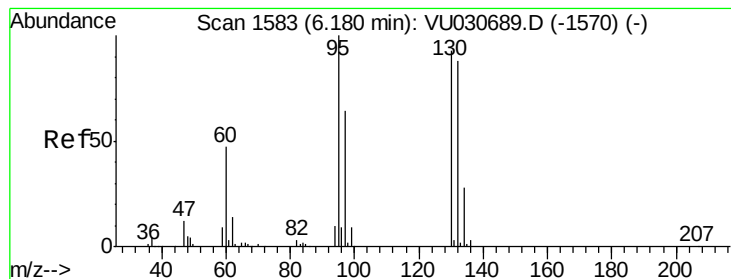
10000

0

Time-->

5.30 5.35 5.40 5.45





#34

Trichloroethene

Concen: 5.488 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

Tot Ion: 95 Resp: 23666

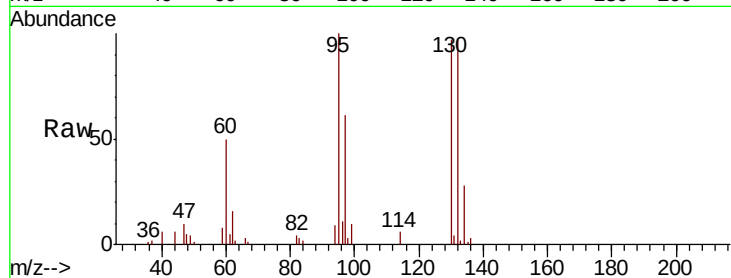
Ion Ratio Lower Upper

95 100

97 60.6 44.5 82.7

132 96.7 61.5 114.1

130 97.2 64.9 120.5

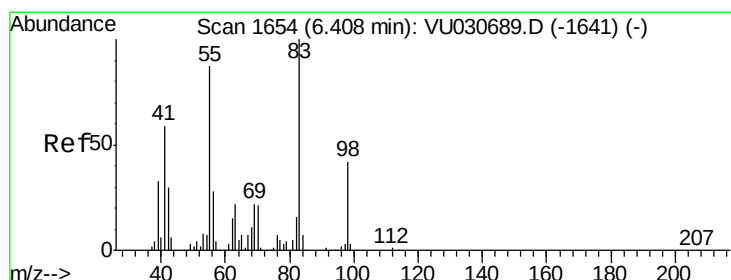
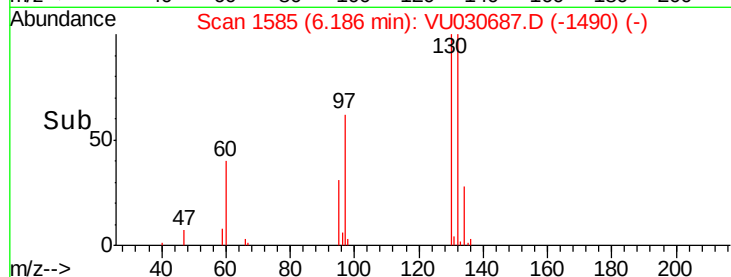
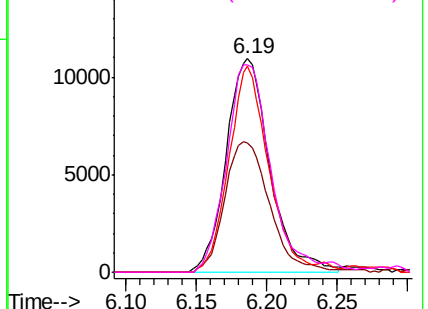


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 5.345 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

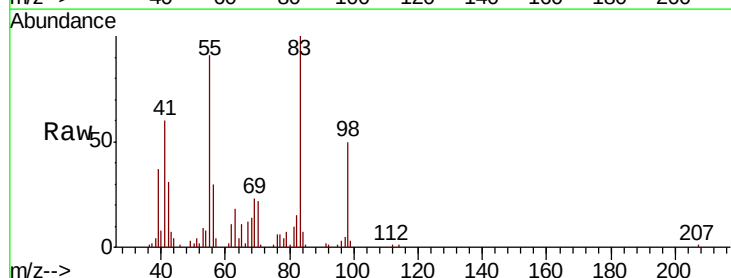
Tgt Ion: 83 Resp: 34531

Ion Ratio Lower Upper

83 100

55 92.9 71.6 107.4

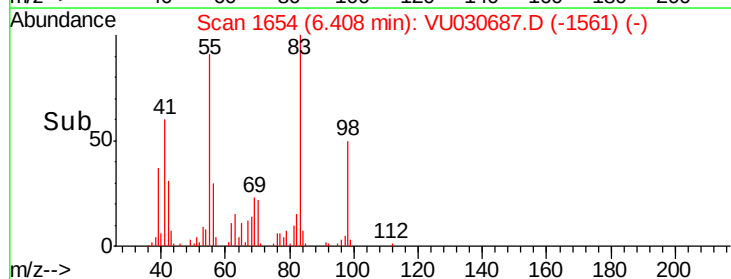
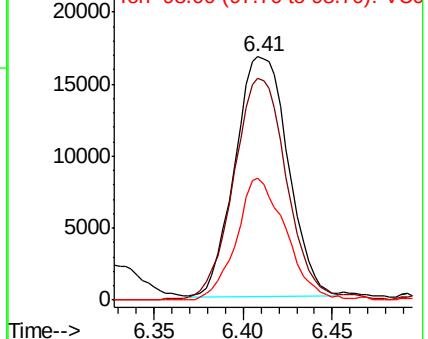
98 47.4 35.4 53.0

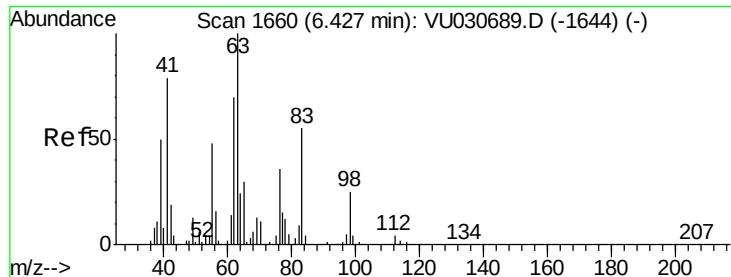


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

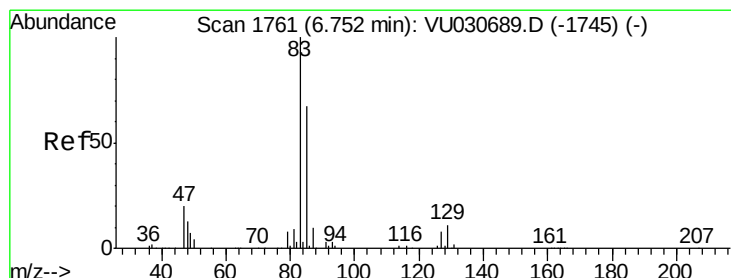
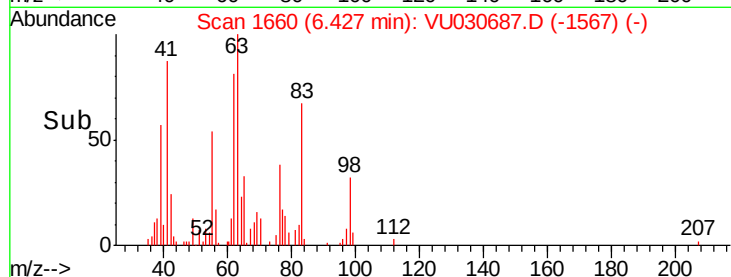
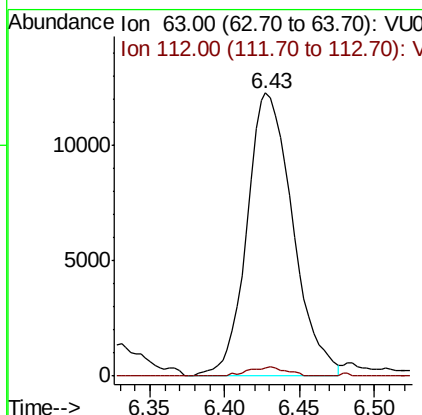
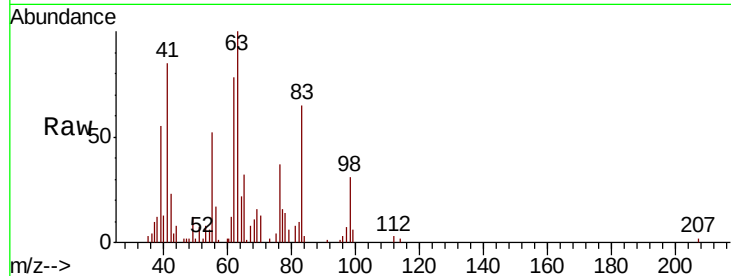




#37
 1,2-Dichloropropane
 Concen: 5.238 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU030687.D
 Acq: 04 Apr 2019 16:31

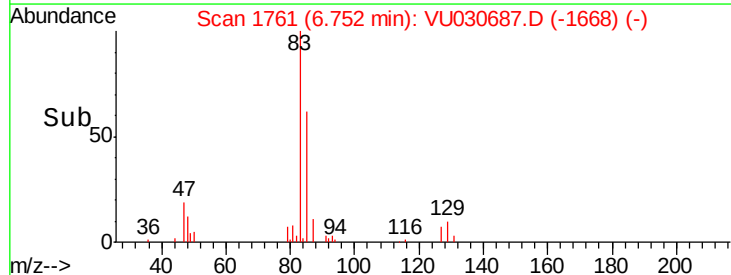
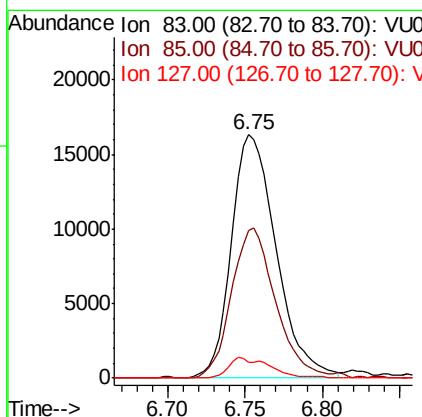
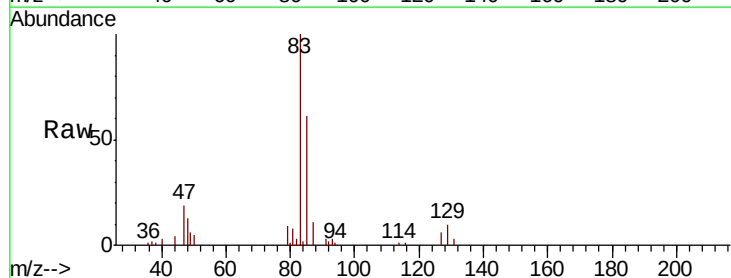
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00546

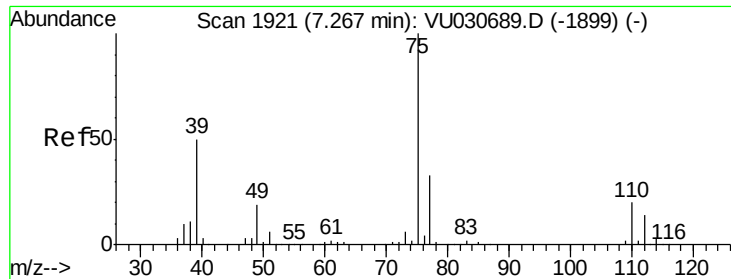
Tot Ion: 63 Resp: 26174
 Ion Ratio Lower Upper
 63 100
 112 2.7 3.0 4.4#



#38
 Bromodichloromethane
 Concen: 5.498 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU030687.D
 Acq: 04 Apr 2019 16:31

Tgt Ion: 83 Resp: 32948
 Ion Ratio Lower Upper
 83 100
 85 60.5 46.5 86.3
 127 6.4 6.6 10.0#

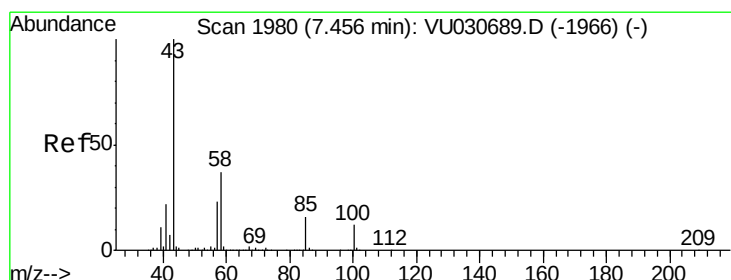
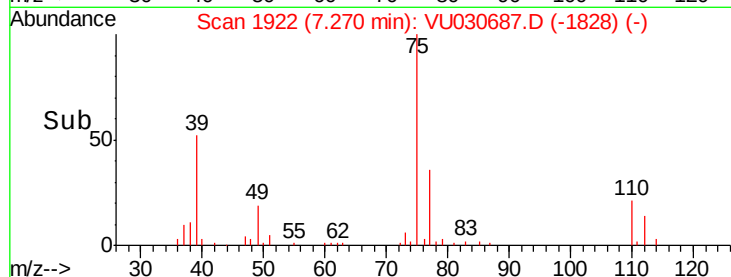
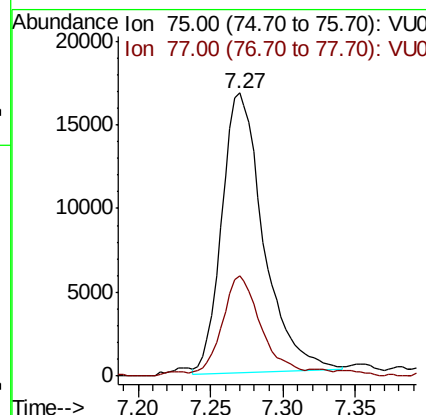
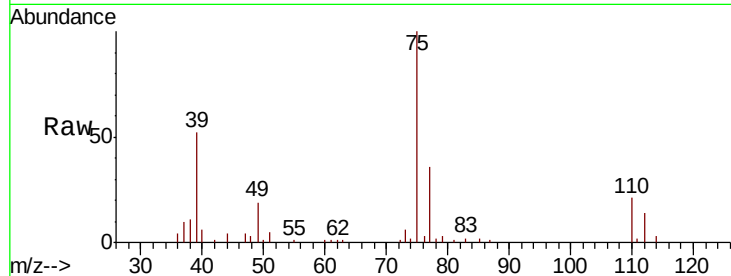




#39
 cis-1,3-Dichloropropene
 Concen: 5.035 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VU030687.D
 Acq: 04 Apr 2019 16:31

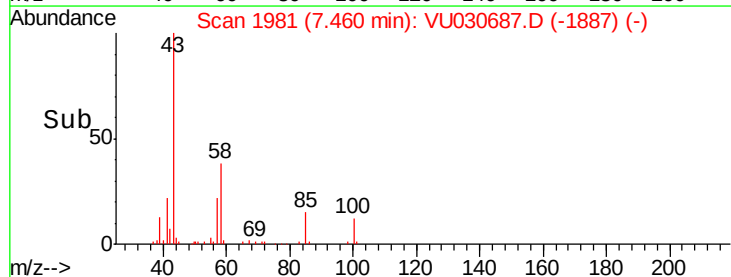
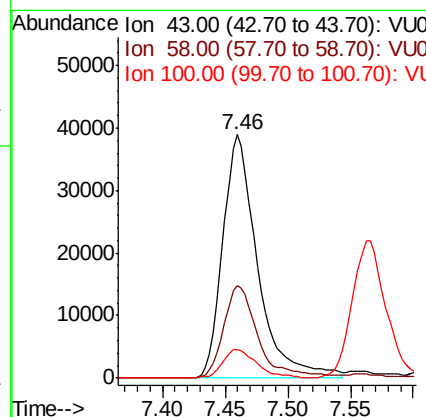
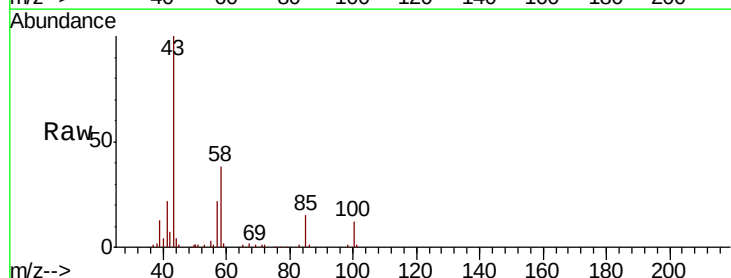
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00546

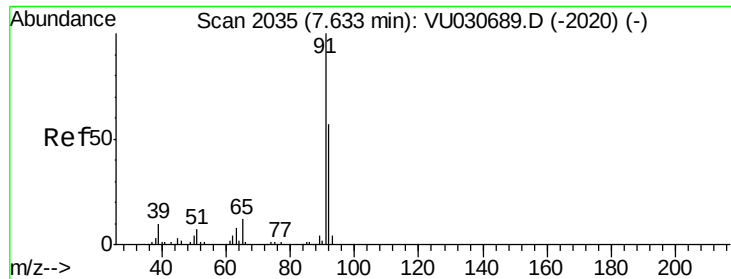
Tot Ion: 75 Resp: 33477
 Ion Ratio Lower Upper
 75 100
 77 35.6 23.1 42.9



#40
 4-Methyl-2-pentanone
 Concen: 9.864 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VU030687.D
 Acq: 04 Apr 2019 16:31

Tgt Ion: 43 Resp: 75081
 Ion Ratio Lower Upper
 43 100
 58 36.8 29.7 44.5
 100 11.8 9.8 14.6





#42

Toluene

Concen: 5.197 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

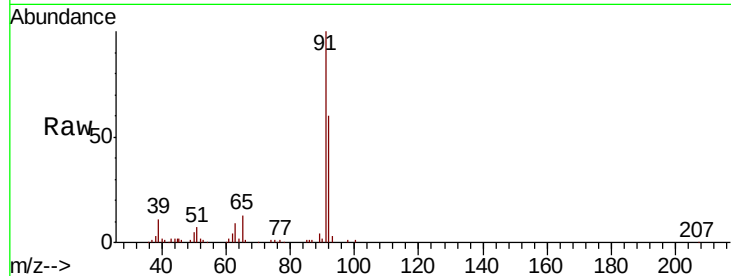
VSTD00546

Tot Ion: 91 Resp: 91811

Ion Ratio Lower Upper

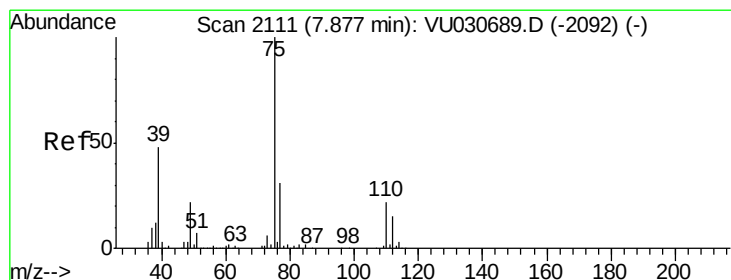
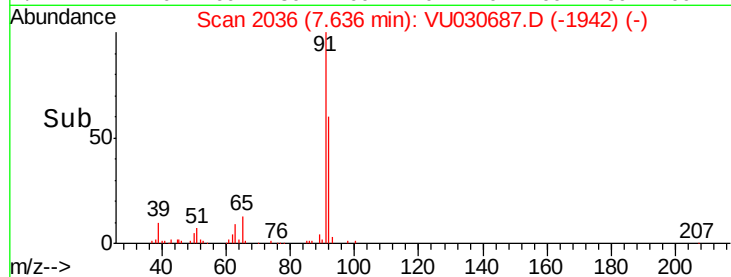
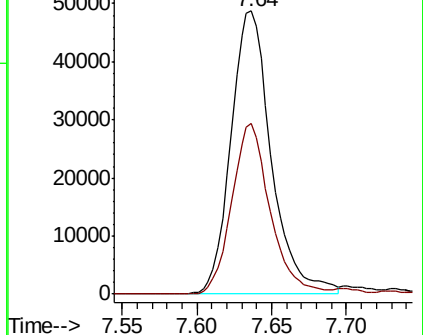
91 100

92 60.2 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU030687.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU030687.D (-2020) (-)



#44

trans-1,3-Dichloropropene

Concen: 5.017 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.01 min

Lab File: VU030687.D

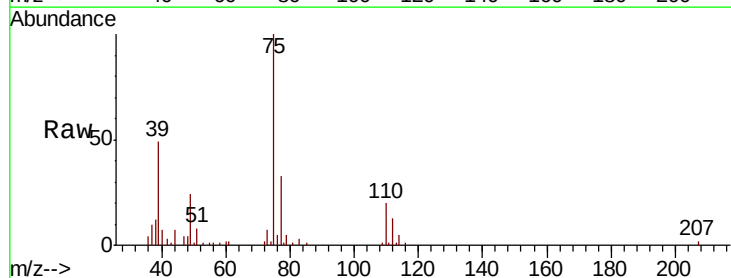
Acq: 04 Apr 2019 16:31

Tgt Ion: 75 Resp: 29523

Ion Ratio Lower Upper

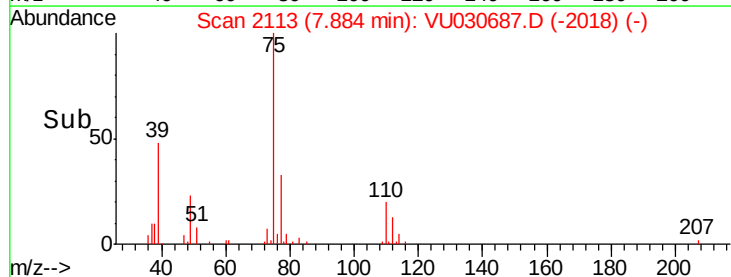
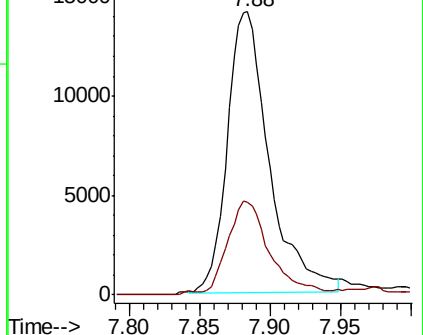
75 100

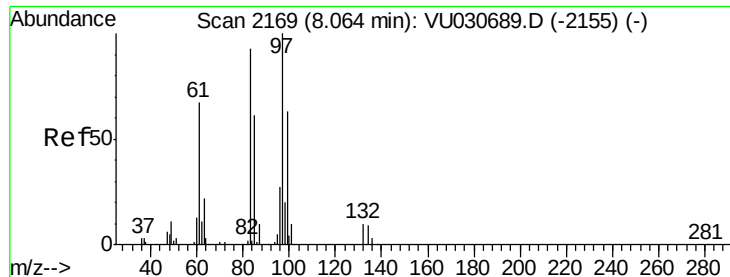
77 32.9 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VU030687.D (-2092) (-)

Ion 77.00 (76.70 to 77.70): VU030687.D (-2092) (-)





#45

1,1,2-Trichloroethane

Concen: 5.505 ug/L

RT: 8.07 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

Tot Ion: 97 Resp: 23189

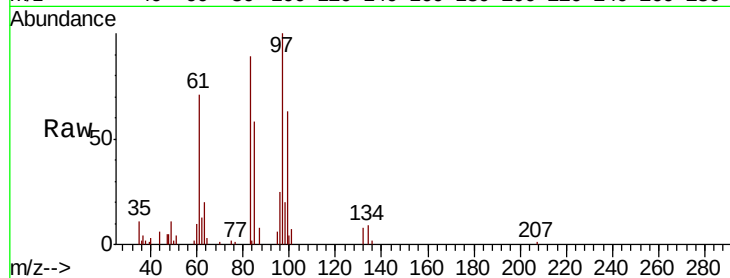
Ion Ratio Lower Upper

97 100

99 63.3 44.0 81.8

83 89.0 65.3 121.3

85 58.2 42.5 78.9

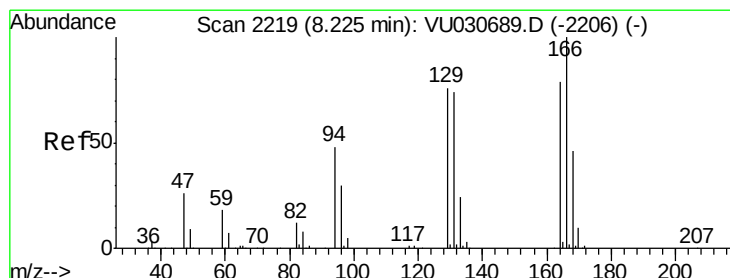
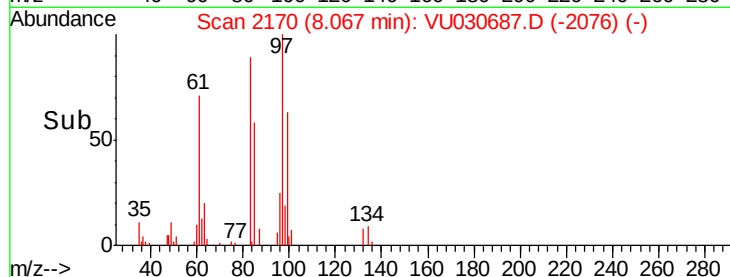
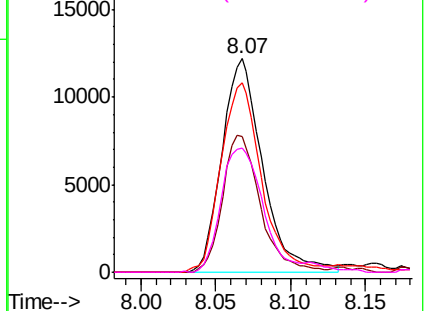


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 5.490 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Tgt Ion: 164 Resp: 17399

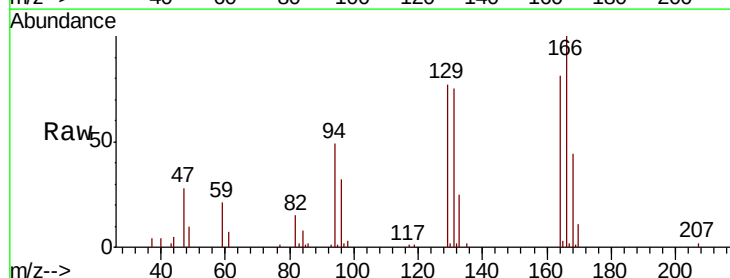
Ion Ratio Lower Upper

164 100

129 95.6 67.4 125.2

131 92.7 65.9 122.5

166 123.5 88.6 164.6

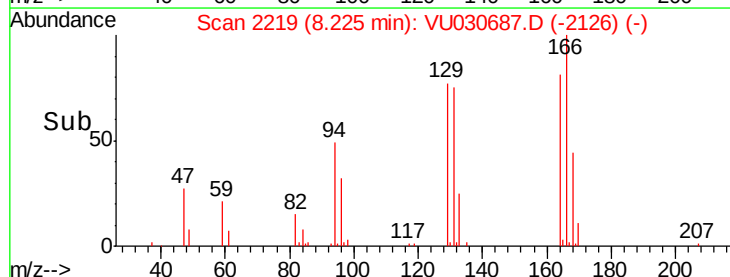
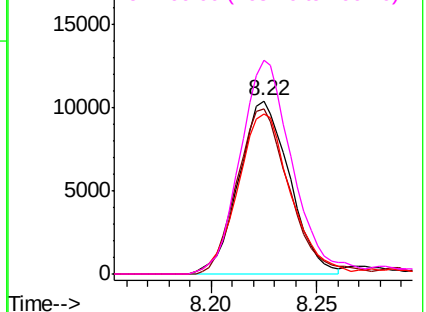


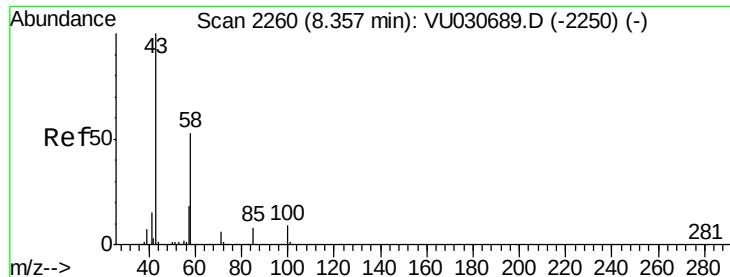
Abundance Ion 164.00 (163.70 to 164.70): V

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

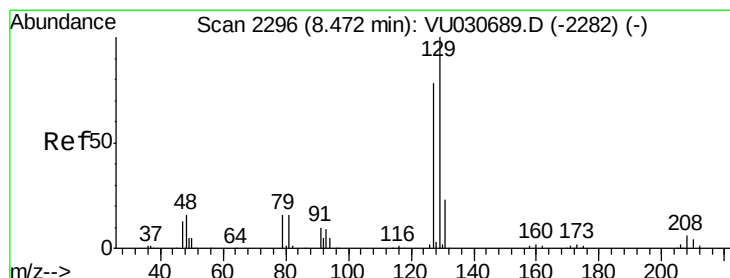
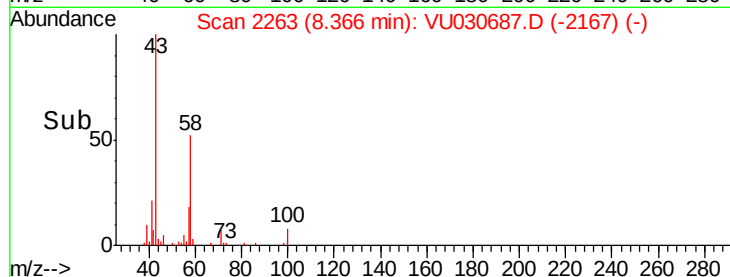
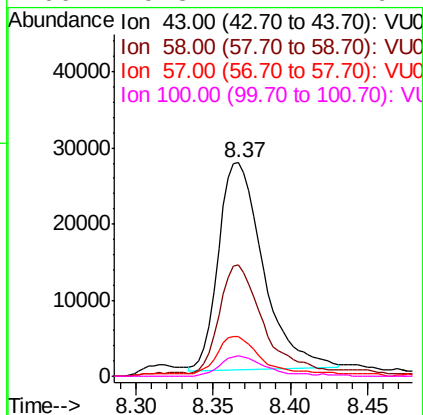
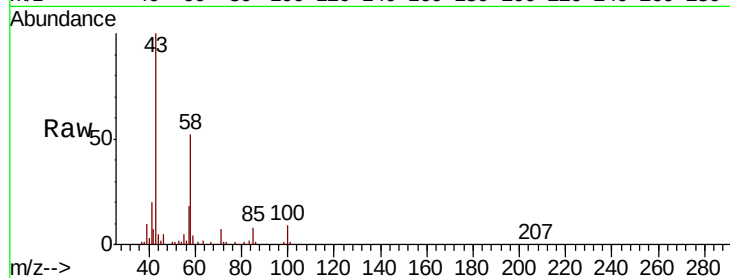




#48
2-Hexanone
Concen: 9.391 ug/L
RT: 8.37 min Scan# 2263
Delta R.T. 0.01 min
Lab File: VU030687.D
Acq: 04 Apr 2019 16:31

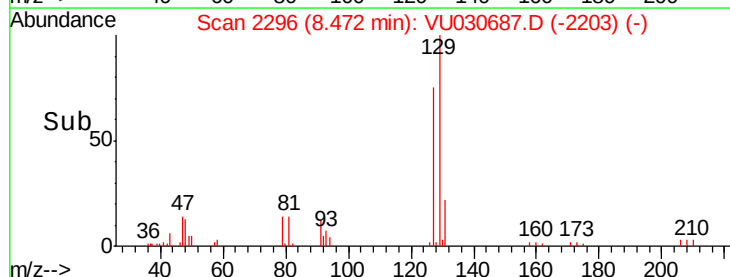
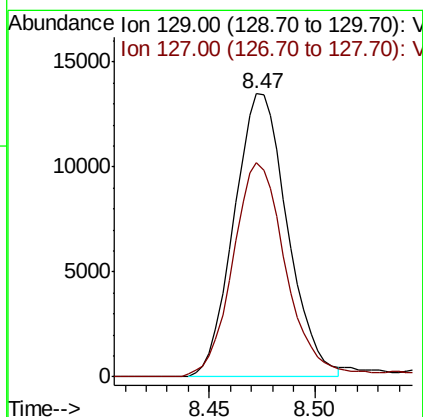
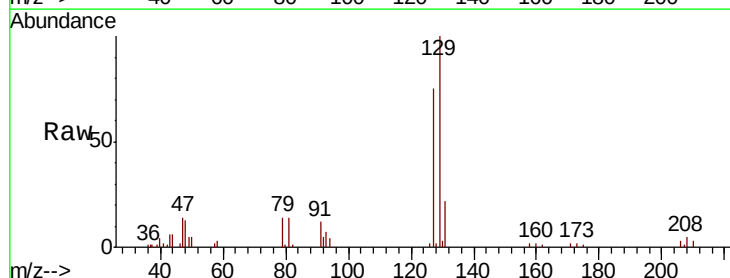
Instrument :
MSVOA_U
ClientSampleId :
VSTD00546

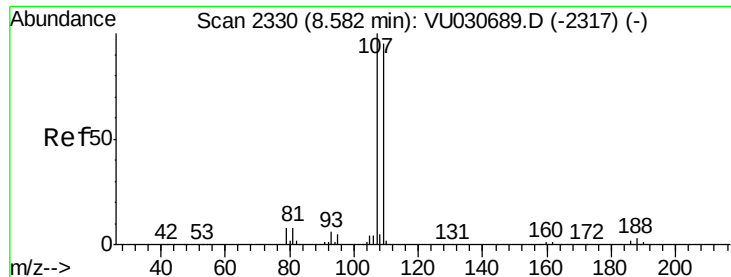
Tot Ion:	43	Resp:	54942
Ion	Ratio	Lower	Upper
43	100		
58	51.4	41.9	62.9
57	16.4	14.3	21.5
100	9.3	7.1	10.7



#49
Dibromochloromethane
Concen: 5.359 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030687.D
Acq: 04 Apr 2019 16:31

Tgt Ion:	129	Resp:	23706
Ion	Ratio	Lower	Upper
129	100		
127	75.5	54.5	101.3





#50

1,2-Dibromoethane

Concen: 5.364 ug/L

RT: 8.58 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

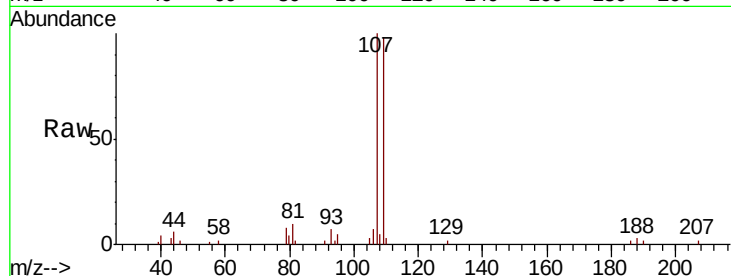
Tot Ion:107 Resp: 24292

Ion Ratio Lower Upper

107 100

109 98.1 66.4 123.2

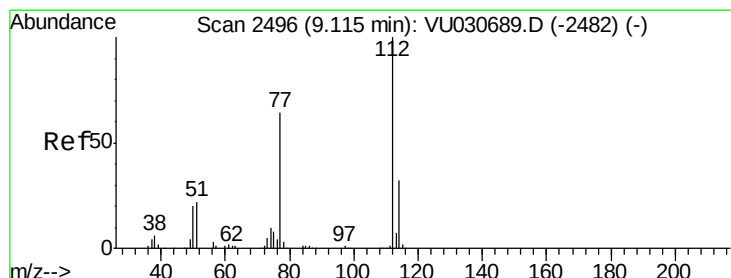
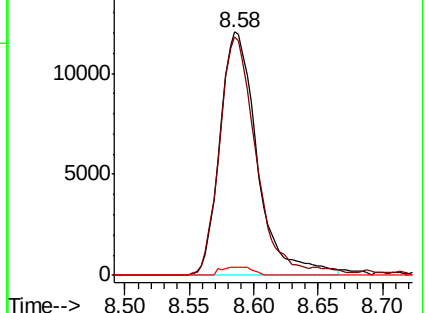
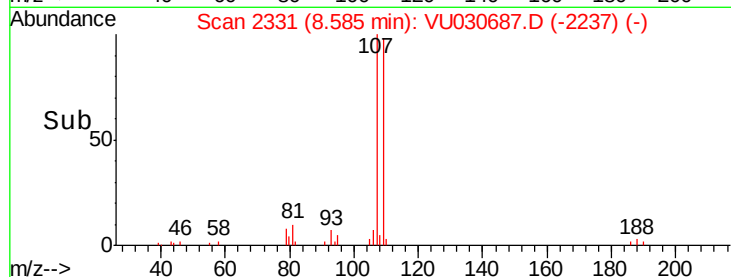
188 3.1 2.6 4.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 5.516 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

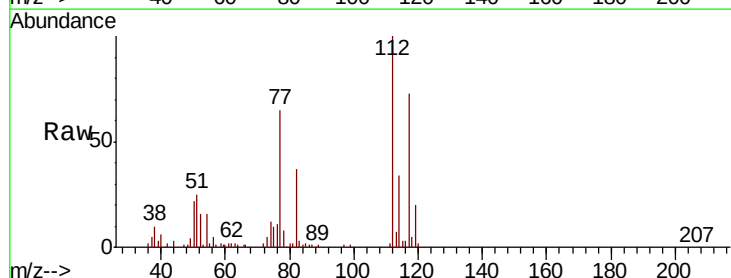
Tgt Ion:112 Resp: 60717

Ion Ratio Lower Upper

112 100

114 34.3 22.2 41.2

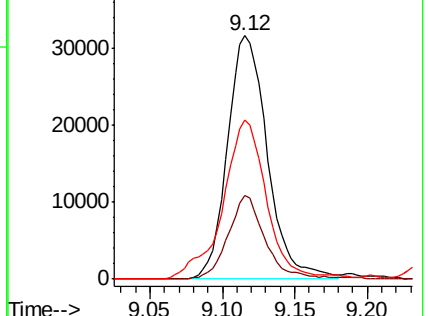
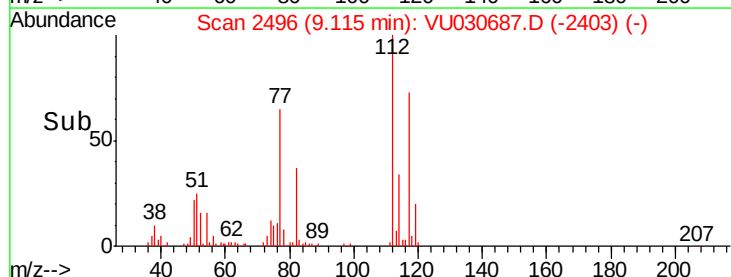
77 65.4 51.7 77.5

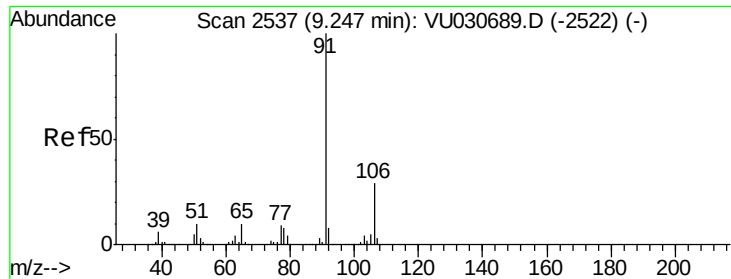


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 5.329 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

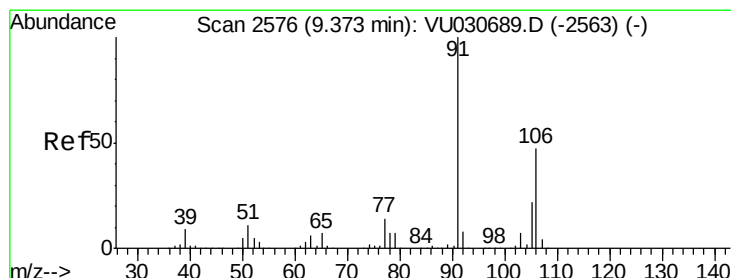
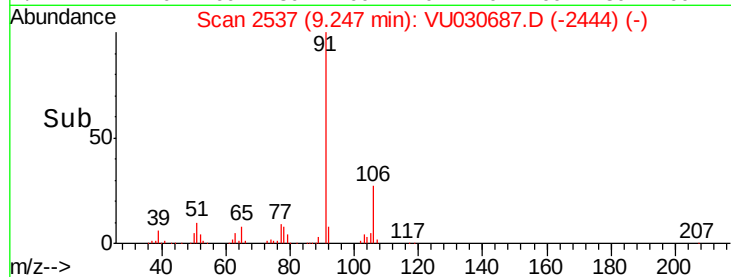
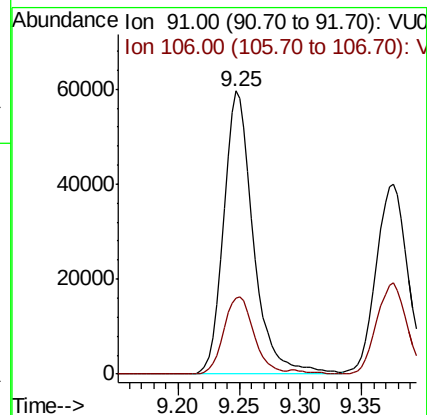
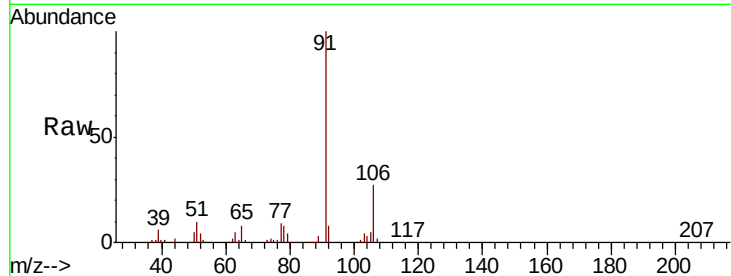
VSTD00546

Tot Ion: 91 Resp: 102111

Ion Ratio Lower Upper

91 100

106 26.7 20.4 37.8



#53

m,p-Xylene

Concen: 5.144 ug/L

RT: 9.38 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VU030687.D

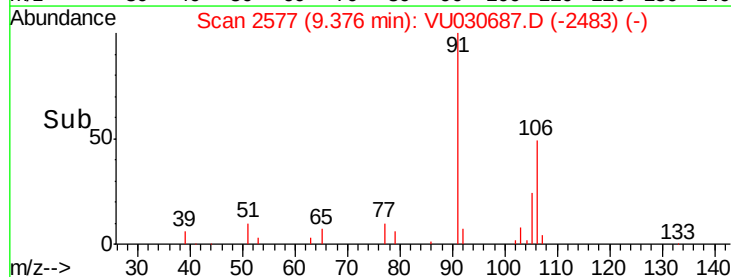
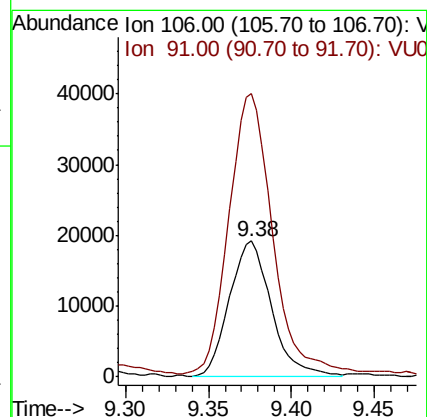
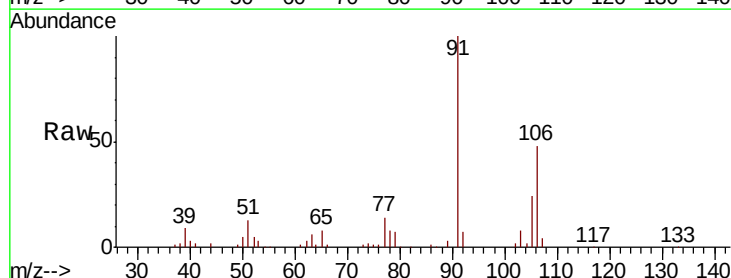
Acq: 04 Apr 2019 16:31

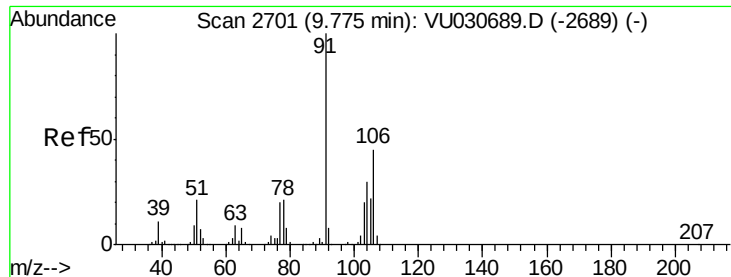
Tgt Ion: 106 Resp: 33642

Ion Ratio Lower Upper

106 100

91 208.4 148.0 274.8





#54

o-xylene

Concen: 5.240 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

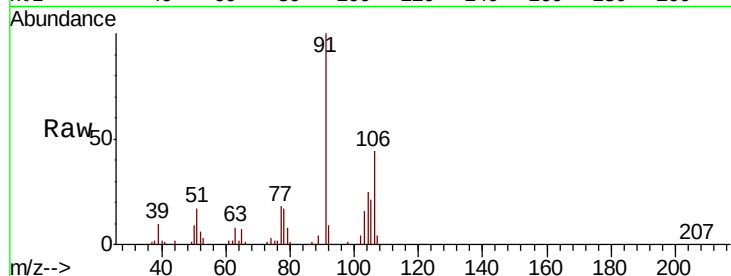
VSTD00546

Tot Ion:106 Resp: 34439

Ion Ratio Lower Upper

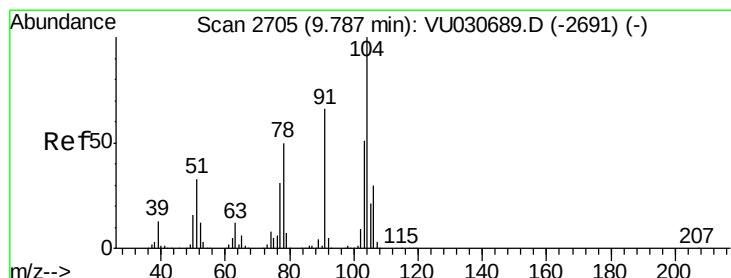
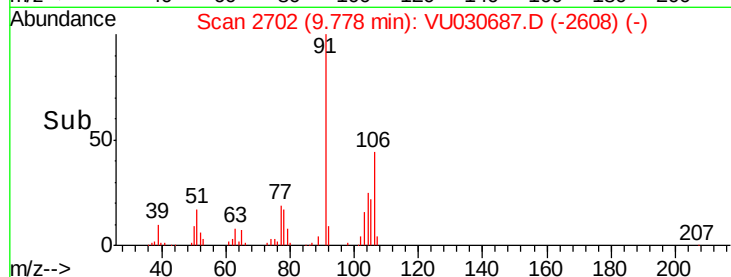
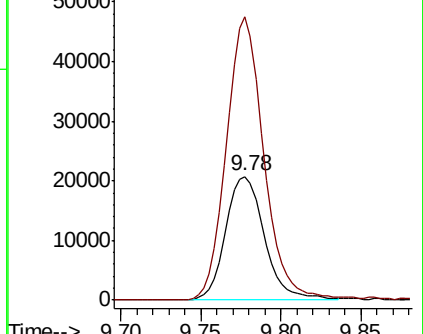
106 100

91 229.3 156.7 290.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 5.083 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU030687.D

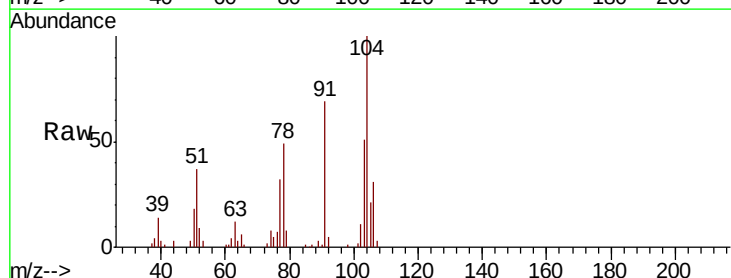
Acq: 04 Apr 2019 16:31

Tgt Ion:104 Resp: 56278

Ion Ratio Lower Upper

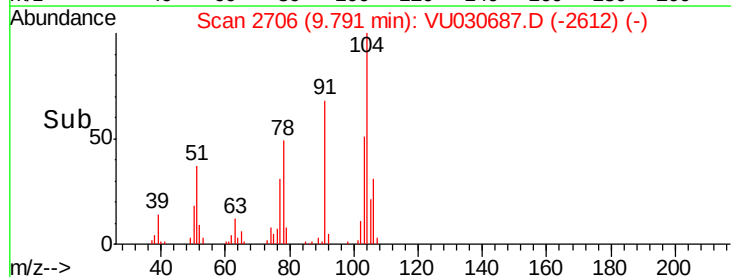
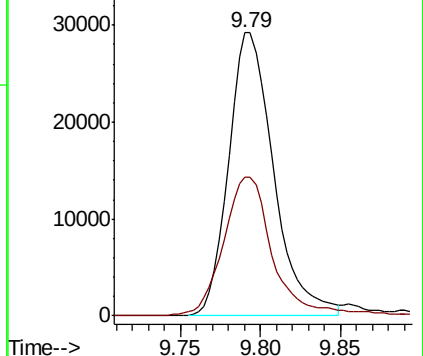
104 100

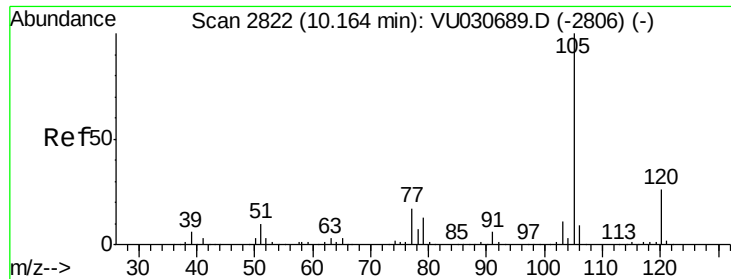
78 49.1 35.1 65.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 5.209 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

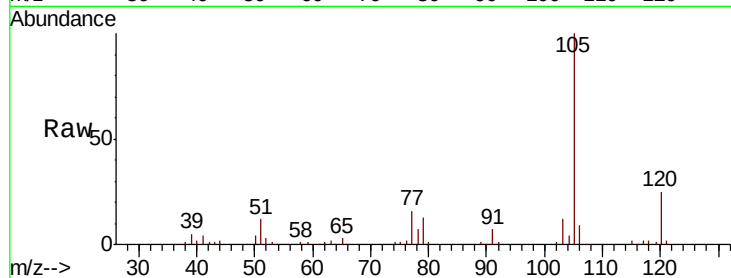
Tot Ion:105 Resp: 89928

Ion Ratio Lower Upper

105 100

120 25.0 20.4 30.6

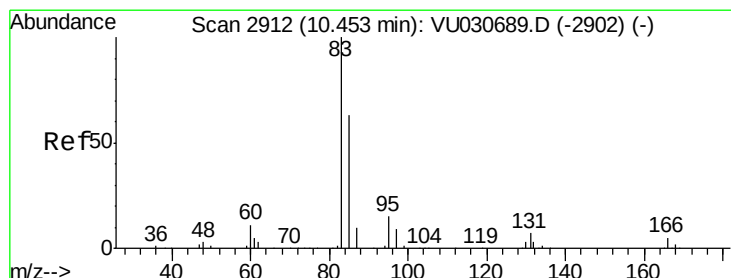
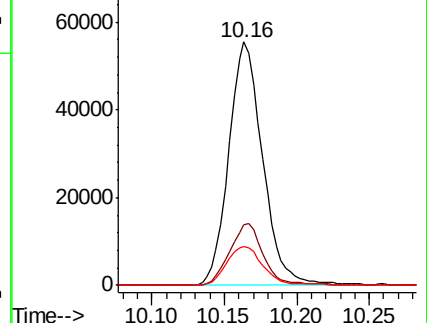
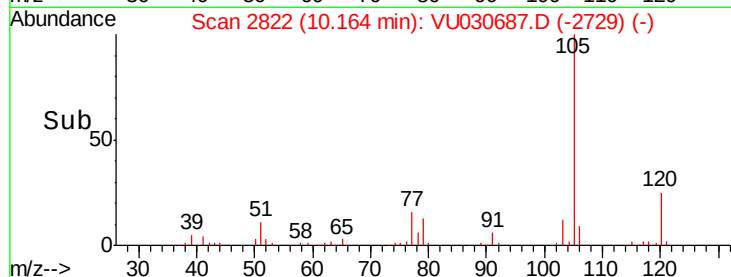
77 17.0 13.4 20.2



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: 5.333 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

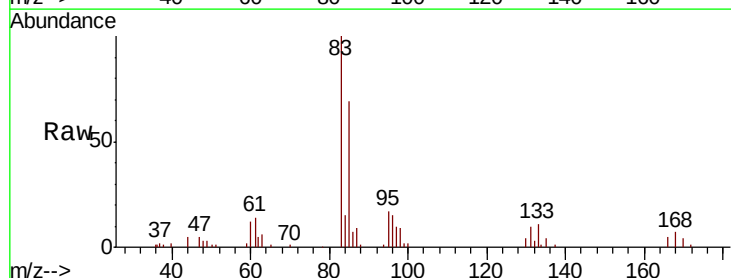
Tgt Ion: 83 Resp: 40592

Ion Ratio Lower Upper

83 100

85 68.8 45.3 84.1

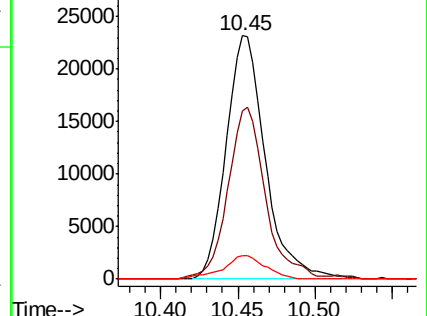
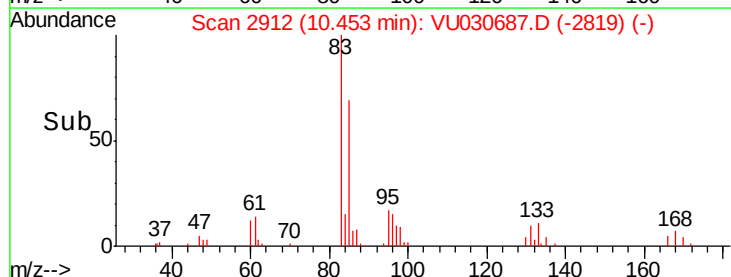
131 9.6 6.7 10.1

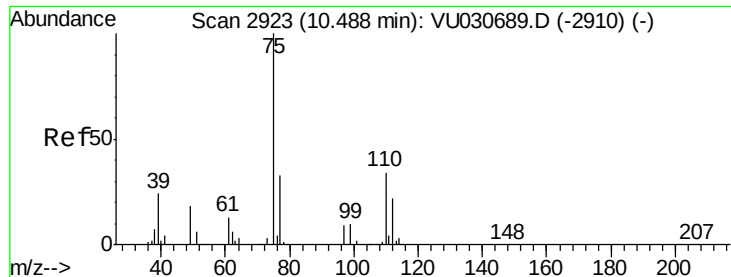


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 5.355 ug/L

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

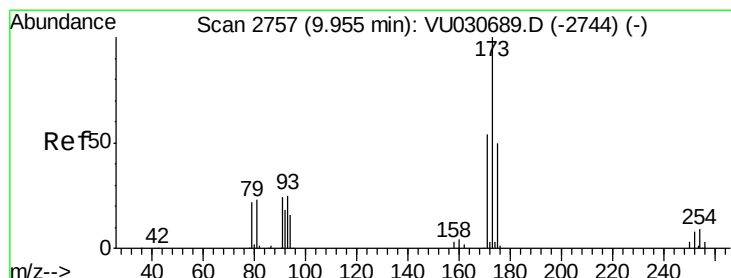
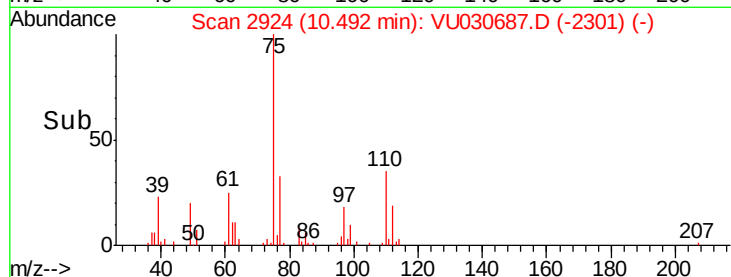
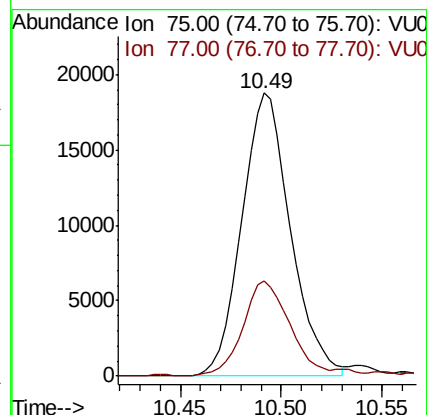
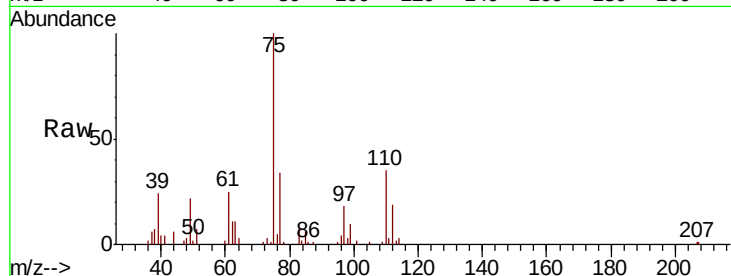
VSTD00546

Tot Ion: 75 Resp: 31690

Ion Ratio Lower Upper

75 100

77 32.2 26.1 39.1



#61

Bromoform

Concen: 5.418 ug/L

RT: 9.96 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

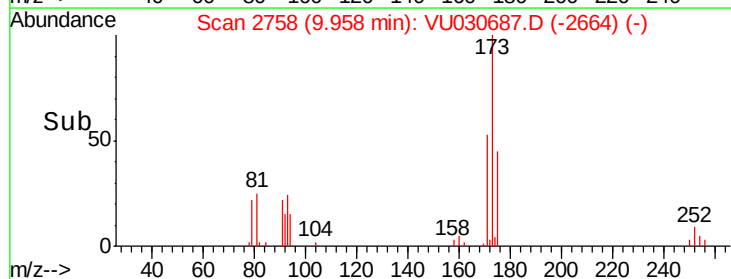
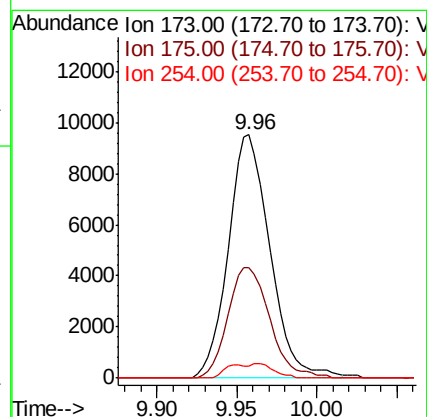
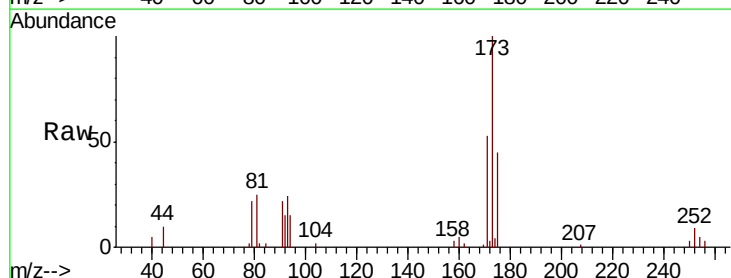
Tgt Ion: 173 Resp: 16956

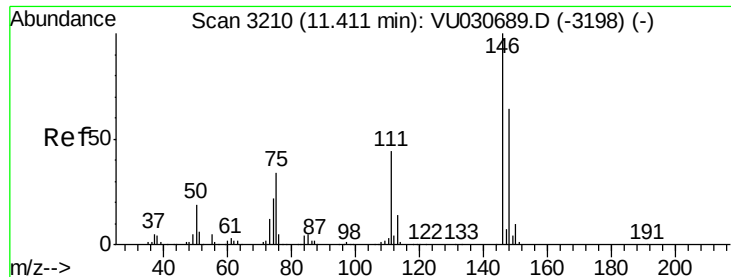
Ion Ratio Lower Upper

173 100

175 45.5 39.1 58.7

254 3.6 7.3 10.9#





#62

1,3-Dichlorobenzene

Concen: 5.303 ug/L

RT: 11.42 min Scan# 3212

Delta R.T. 0.01 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

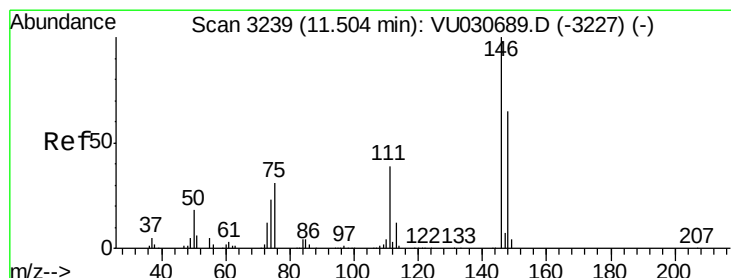
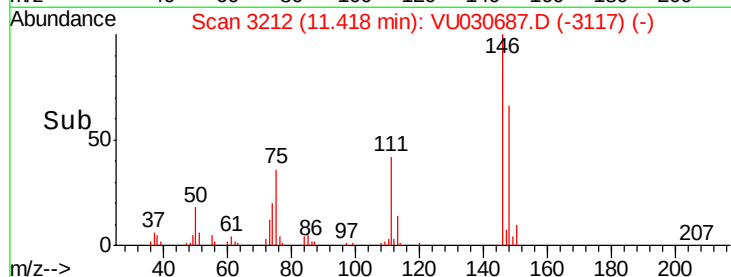
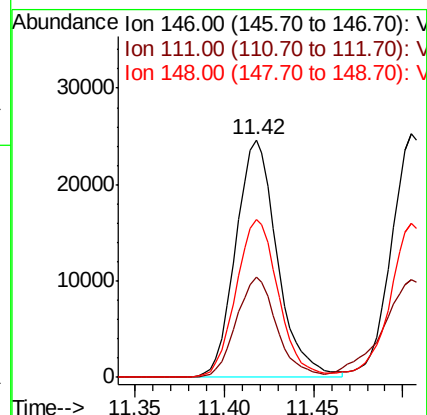
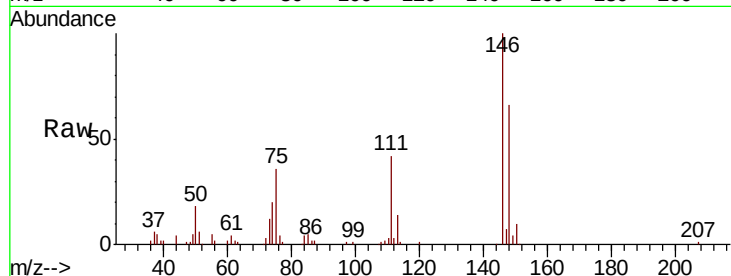
Tot Ion:146 Resp: 39951

Ion Ratio Lower Upper

146 100

111 42.2 30.9 57.5

148 66.4 44.7 82.9



#63

1,4-Dichlorobenzene

Concen: 5.611 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

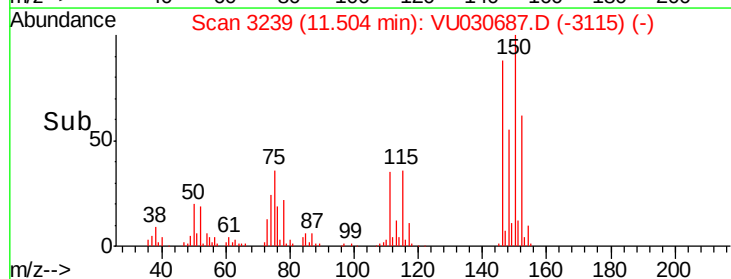
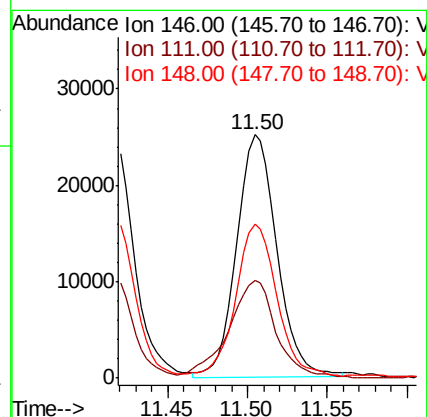
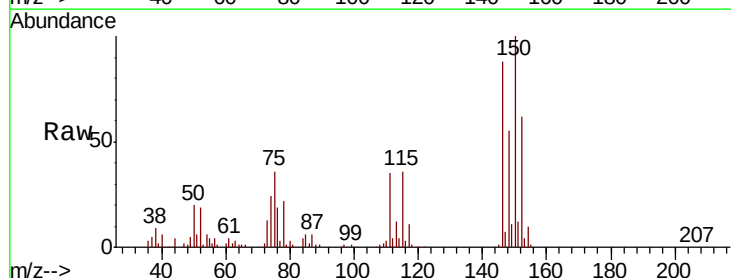
Tgt Ion:146 Resp: 43123

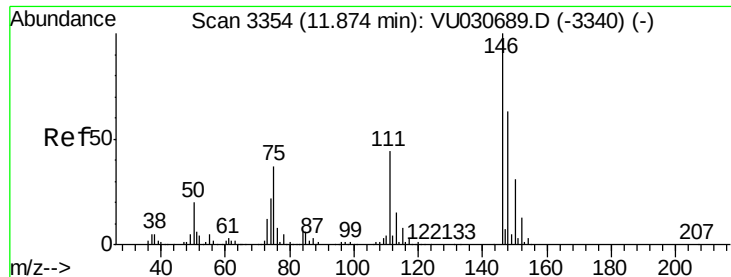
Ion Ratio Lower Upper

146 100

111 40.2 27.7 51.5

148 63.3 45.4 84.4





#65

1,2-Dichlorobenzene

Concen: 5.457 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

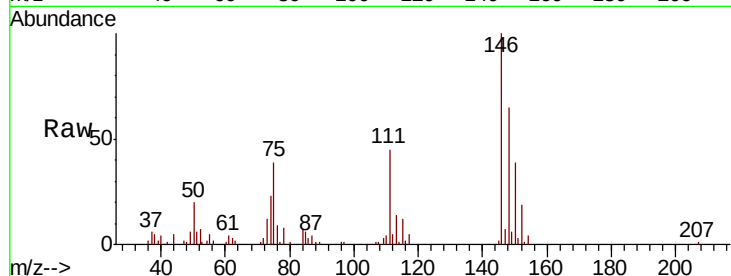
Tot Ion:146 Resp: 41593

Ion Ratio Lower Upper

146 100

111 45.1 34.9 52.3

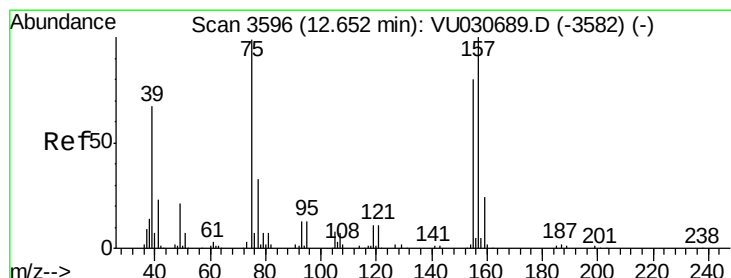
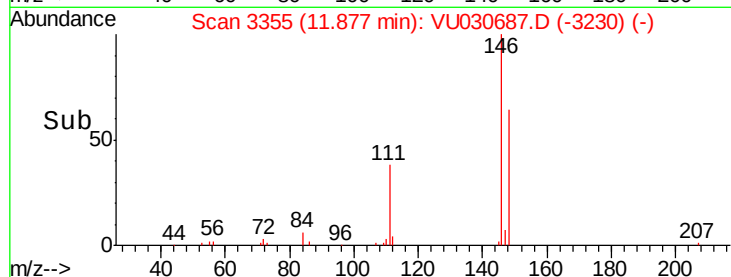
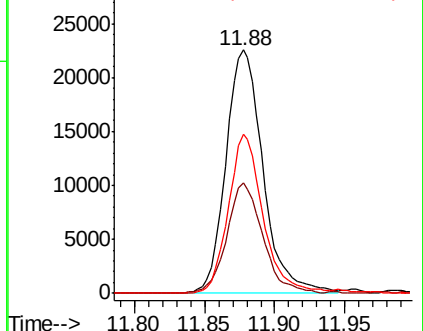
148 65.1 50.4 75.6



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



#66

1,2-Dibromo-3-chloropropane

Concen: 5.136 ug/L

RT: 12.66 min Scan# 3598

Delta R.T. 0.01 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

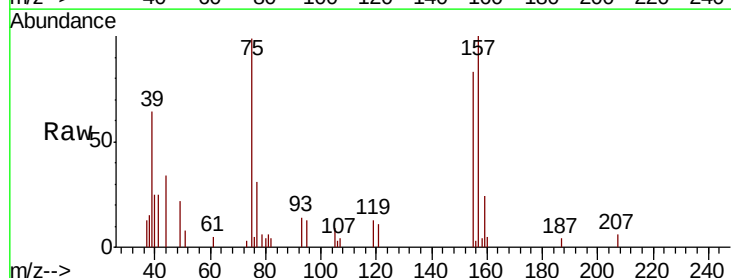
Tgt Ion: 75 Resp: 8062

Ion Ratio Lower Upper

75 100

155 83.9 64.1 96.1

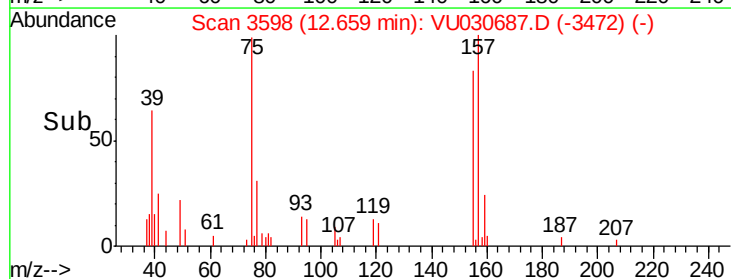
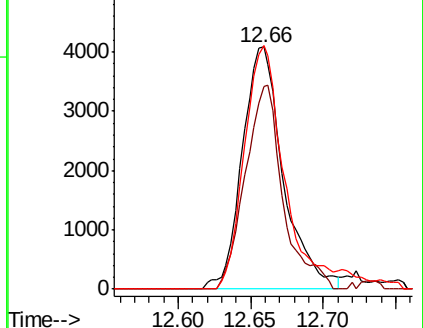
157 100.7 80.6 120.8

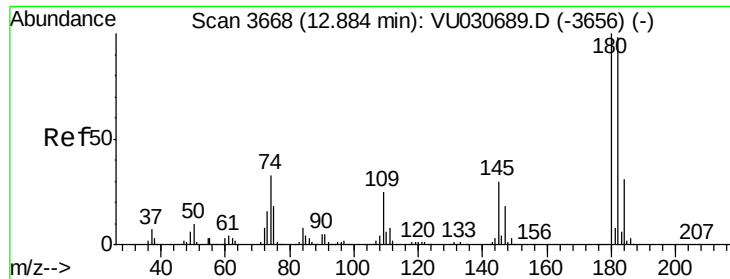


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

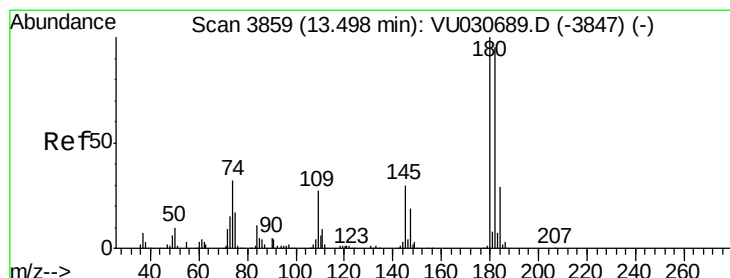
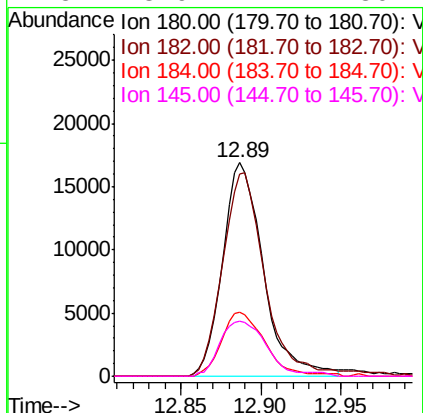
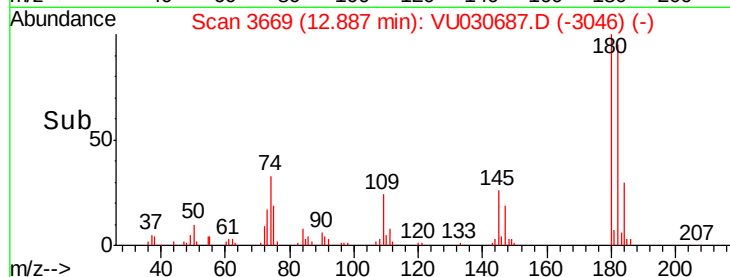
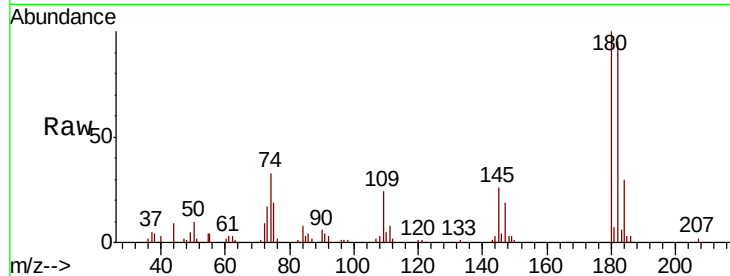




#67
 1,3,5-Trichlorobenzene
 Concen: 5.434 ug/L
 RT: 12.89 min Scan# 3669
 Delta R.T. 0.00 min
 Lab File: VU030687.D
 Acq: 04 Apr 2019 16:31

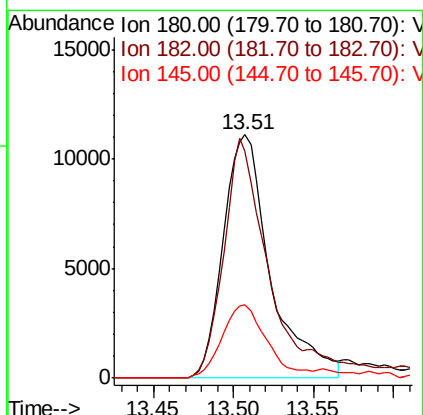
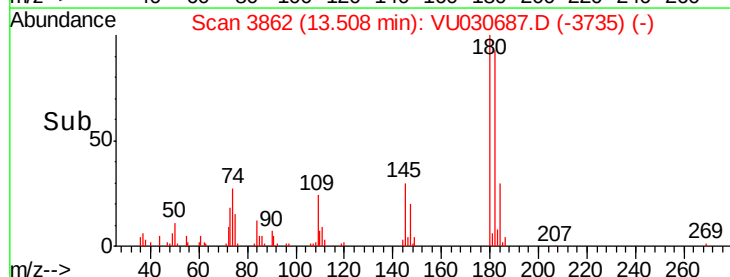
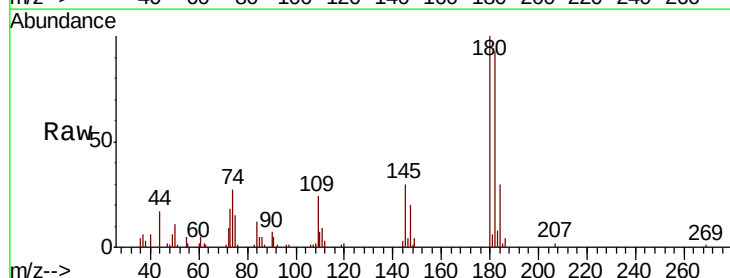
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00546

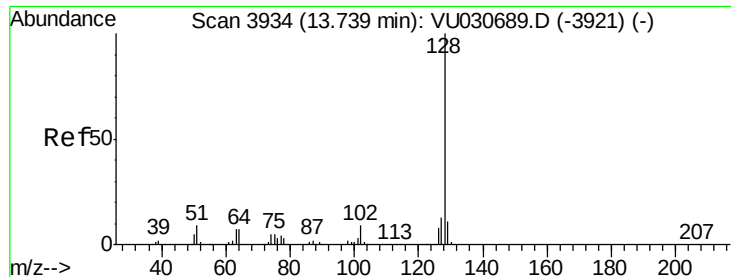
Tot Ion:180	Resp:	29513
Ion	Ratio	Lower Upper
180	100	
182	96.6	78.3 117.5
184	31.0	24.7 37.1
145	28.9	24.2 36.4



#68
 1,2,4-trichlorobenzene
 Concen: 5.075 ug/L
 RT: 13.51 min Scan# 3862
 Delta R.T. 0.01 min
 Lab File: VU030687.D
 Acq: 04 Apr 2019 16:31

Tgt Ion:180	Resp:	22407
Ion	Ratio	Lower Upper
180	100	
182	85.8	76.7 115.1
145	28.7	24.4 36.6





#69

Naphthalene

Concen: 4.495 ug/L

RT: 13.75 min Scan# 3936

Delta R.T. 0.01 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

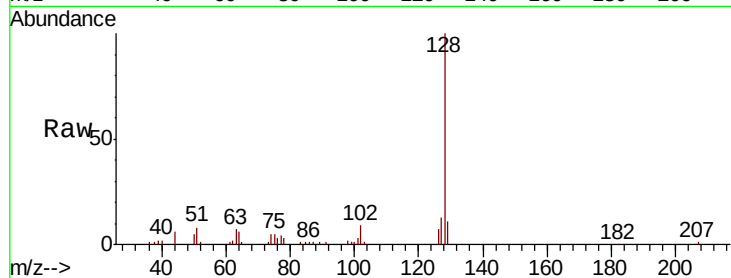
Tot Ion:128 Resp: 60940

Ion Ratio Lower Upper

128 100

127 10.7 10.4 15.6

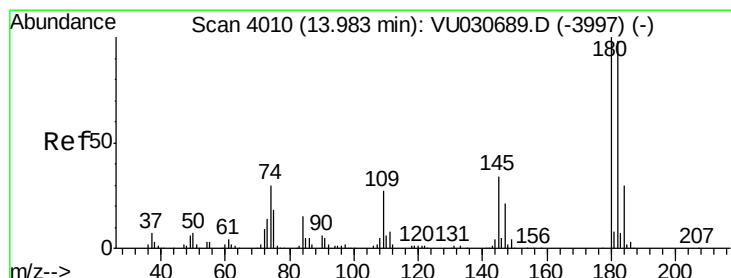
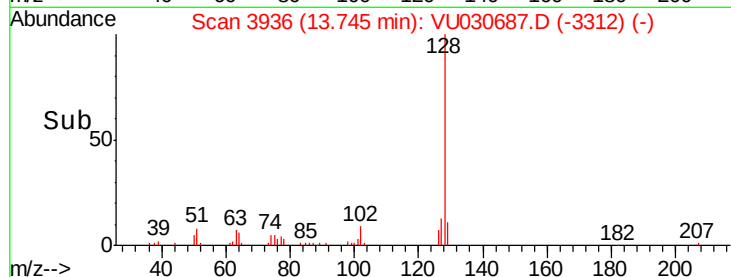
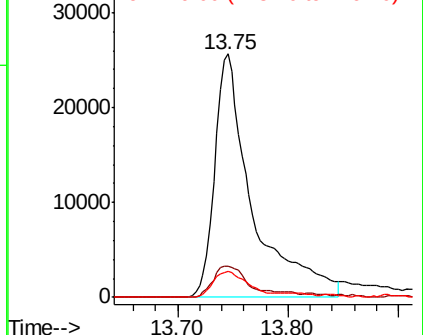
129 9.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.298 ug/L

RT: 13.99 min Scan# 4012

Delta R.T. 0.01 min

Lab File: VU030687.D

Acq: 04 Apr 2019 16:31

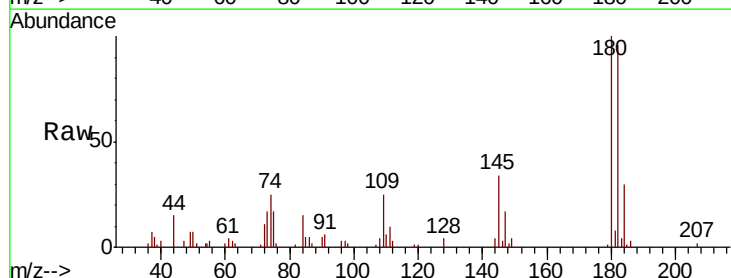
Tgt Ion:180 Resp: 24936

Ion Ratio Lower Upper

180 100

182 82.3 78.1 117.1

145 30.4 26.6 40.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

