

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U103119\
 Data File : VU035558.D
 Acq On : 30 Oct 2019 13:48
 Operator : JC/SP
 Sample : VSTD01031
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

Quant Time: Oct 30 22:51:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Oct 30 23:48:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	675133	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	653299	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	240514	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	56367	10.48	ug/L	0.00
7) Chloroethane-d5	1.93	69	45730	10.33	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.60	63	86430	9.81	ug/L	0.00
21) 2-Butanone-d5	4.70	46	59045	17.13	ug/L	0.00
24) Chloroform-d	5.12	84	86643	9.92	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	52888	9.64	ug/L	0.00
32) Benzene-d6	5.77	84	173140	9.97	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.74	67	57711	10.18	ug/L	0.00
41) Toluene-d8	7.93	98	157374	9.83	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.22	79	24255	9.16	ug/L	0.00
47) 2-Hexanone-d5	8.69	63	35759	17.04	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.79	84	76764	9.63	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	48470	10.28	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.40	85	54402	9.563 ug/L	100
3) Chloromethane	1.54	50	58425	9.539 ug/L	99
5) Vinyl chloride	1.62	62	61263	9.293 ug/L	90
6) Bromomethane	1.88	94	29302	9.610 ug/L	94
8) Chloroethane	1.95	64	35074	9.064 ug/L	98
9) Trichlorofluoromethane	2.16	101	76735	10.076 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	42109	9.456 ug/L	100
12) 1,1-Dichloroethene	2.61	96	42334	9.986 ug/L	94
13) Acetone	2.67	43	58482	17.509 ug/L	98
14) Carbon disulfide	2.83	76	127261	9.383 ug/L	99
15) Methyl Acetate	3.00	43	48373	8.649 ug/L	99
16) Methylene chloride	3.09	84	50930	9.731 ug/L	99
17) trans-1,2-Dichloroethene	3.40	96	42189	9.405 ug/L	96
18) Methyl tert-butyl Ether	3.42	73	125773	9.004 ug/L	99
19) 1,1-Dichloroethane	3.92	63	86512	9.478 ug/L	99
20) cis-1,2-Dichloroethene	4.72	96	46625	9.222 ug/L	98
22) 2-Butanone	4.78	43	69771	16.550 ug/L	100
23) Bromochloromethane	5.03	128	26035	10.029 ug/L	95
25) Chloroform	5.14	83	86900	9.588 ug/L	96
27) 1,2-Dichloroethane	5.84	62	62649	9.081 ug/L	98
29) Cyclohexane	5.44	56	61944	8.570 ug/L	100
30) 1,1,1-Trichloroethane	5.37	97	71438	10.014 ug/L	97
31) Carbon tetrachloride	5.57	117	63496	10.081 ug/L	98
33) Benzene	5.82	78	185290	9.594 ug/L	100
34) Trichloroethene	6.58	95	47245	9.885 ug/L	98
35) Methylcyclohexane	6.80	83	58374	8.673 ug/L	95
37) 1,2-Dichloropropane	6.84	63	50724	9.581 ug/L	99
38) Bromodichloromethane	7.15	83	63791	9.728 ug/L	97
39) cis-1,3-Dichloropropene	7.65	75	71107	9.113 ug/L	99
40) 4-Methyl-2-pentanone	7.84	43	122418	17.146 ug/L	95

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 ALS Vial : 4 Sample Multiplier: 1

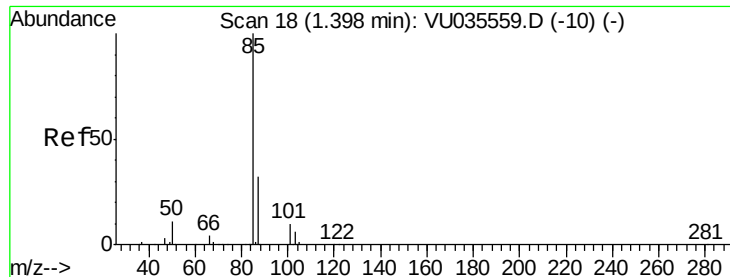
Instrument :
 MSVOA_U
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	8.01	91	189961	9.479	ug/L	98
44) trans-1,3-Dichloropropene	8.25	75	64708	9.102	ug/L	99
45) 1,1,2-Trichloroethane	8.44	97	48360	9.961	ug/L	98
46) Tetrachloroethene	8.58	164	38763	10.234	ug/L	99
48) 2-Hexanone	8.74	43	92747	16.167	ug/L #	90
49) Dibromochloromethane	8.85	129	54171	10.293	ug/L	98
50) 1,2-Dibromoethane	8.96	107	50598	9.888	ug/L	96
51) Chlorobenzene	9.48	112	127432	9.776	ug/L	100
52) Ethylbenzene	9.60	91	193351	9.084	ug/L	98
53) m,p-Xylene	9.73	106	67362	8.529	ug/L	95
54) o-xylene	10.13	106	70127	9.056	ug/L	92
55) Styrene	10.15	104	105087	8.300	ug/L	97
56) Isopropylbenzene	10.51	105	164603	8.427	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.81	83	79870	9.343	ug/L	100
59) 1,2,3-Trichloropropane	10.85	75	63180	9.345	ug/L	98
61) Bromoform	10.32	173	40182	11.085	ug/L	98
62) 1,3-Dichlorobenzene	11.78	146	74962	9.846	ug/L	98
63) 1,4-Dichlorobenzene	11.87	146	75502	9.743	ug/L	97
65) 1,2-Dichlorobenzene	12.24	146	74984	9.666	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	11454	9.038	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	31886	7.964	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	15985	6.319	ug/L	97
69) Naphthalene	14.11	128	37522	5.468	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	18019	6.866	ug/L	94

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



#2

Dichlorodifluoromethane

Concen: 9.563 ug/L

RT: 1.40 min Scan# 18

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampled :

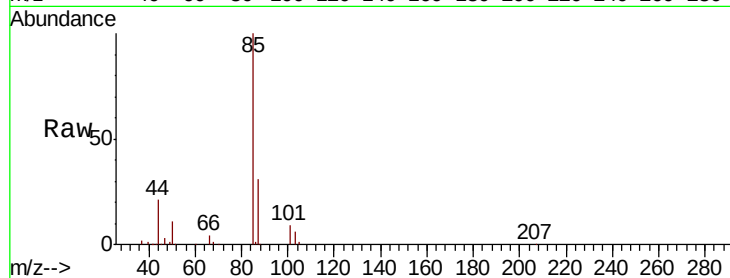
VSTD01031

Tot Ion: 85 Resp: 54402

Ion Ratio Lower Upper

85 100

87 32.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU035558.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU035558.D (-1) (-)

1.40

50000

40000

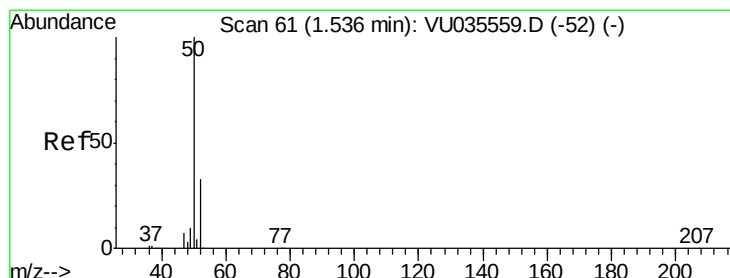
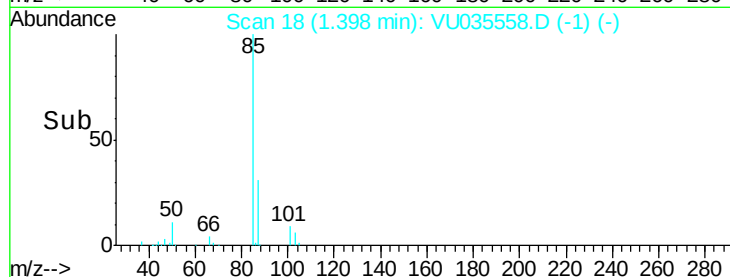
30000

20000

10000

0

Time-->



#3

Chloromethane

Concen: 9.539 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU035558.D

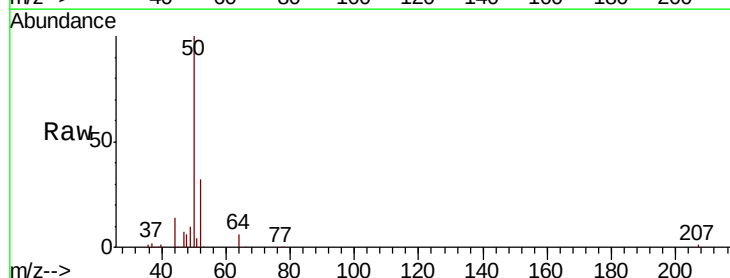
Acq: 30 Oct 2019 13:48

Tgt Ion: 50 Resp: 58425

Ion Ratio Lower Upper

50 100

52 32.4 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU035558.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU035558.D (-1) (-)

1.54

60000

50000

40000

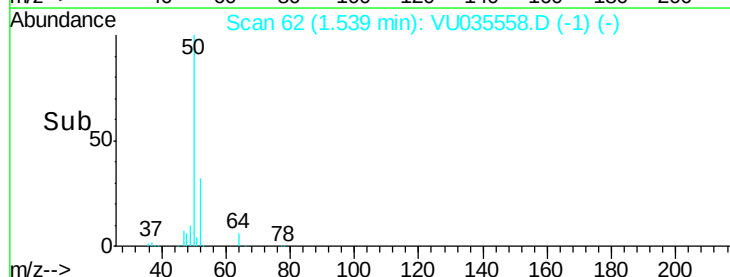
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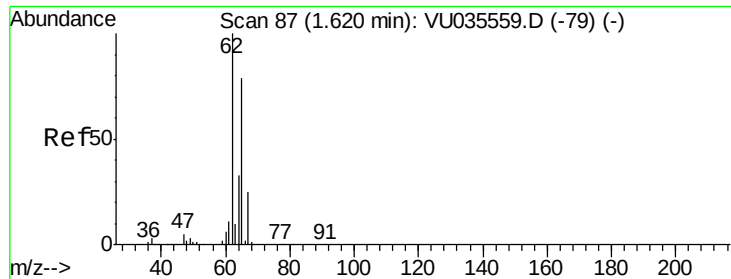
20000

10000

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Time-->





#5

Vinyl chloride

Concen: 9.293 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

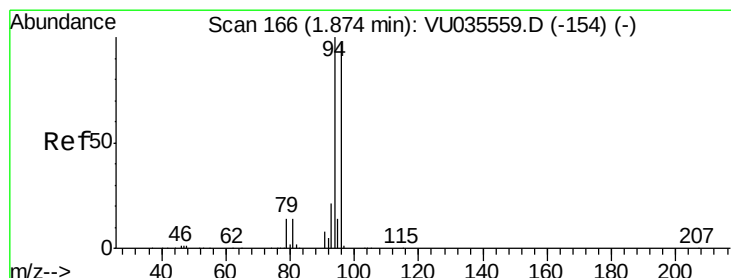
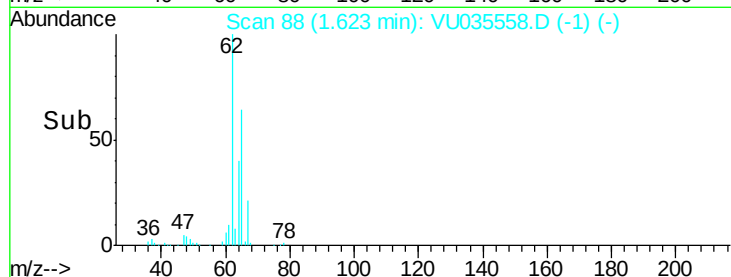
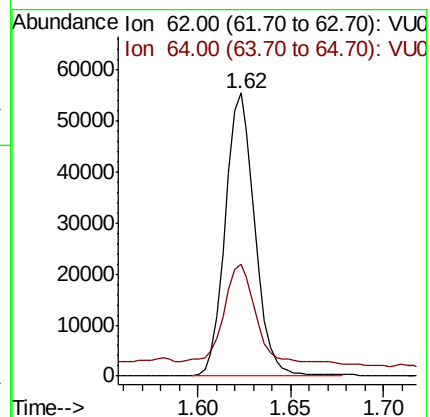
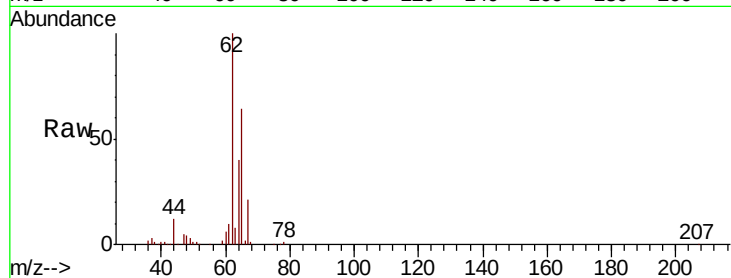
VSTD01031

Tot Ion: 62 Resp: 61263

Ion Ratio Lower Upper

62 100

64 39.7 23.7 43.9



#6

Bromomethane

Concen: 9.610 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU035558.D

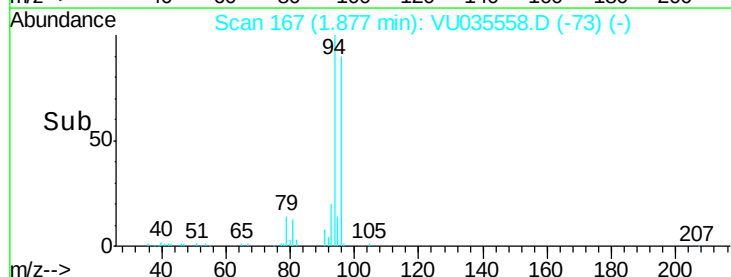
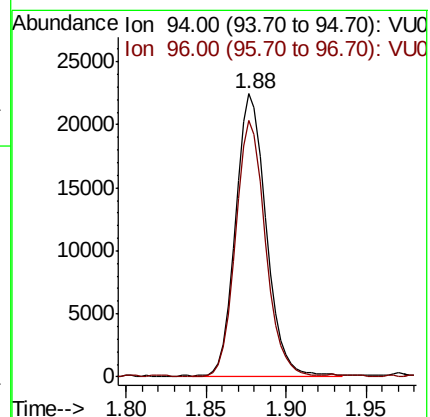
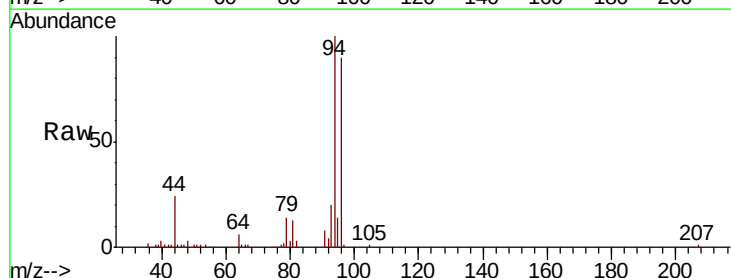
Acq: 30 Oct 2019 13:48

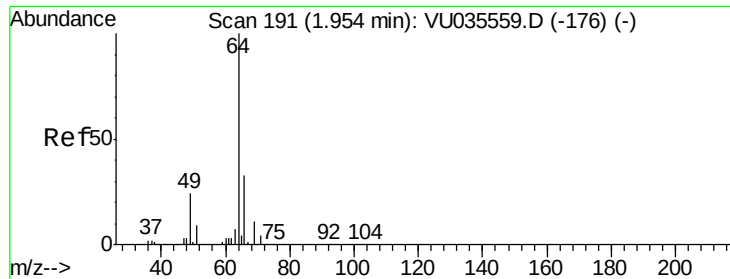
Tgt Ion: 94 Resp: 29302

Ion Ratio Lower Upper

94 100

96 90.5 67.5 125.4

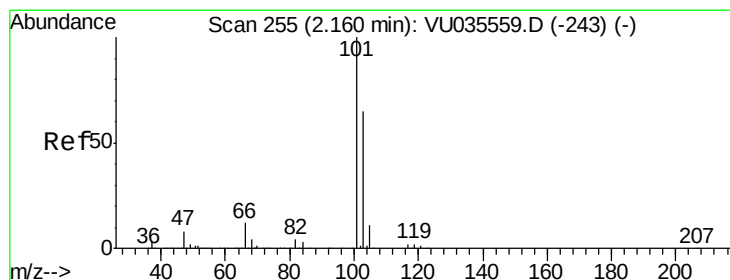
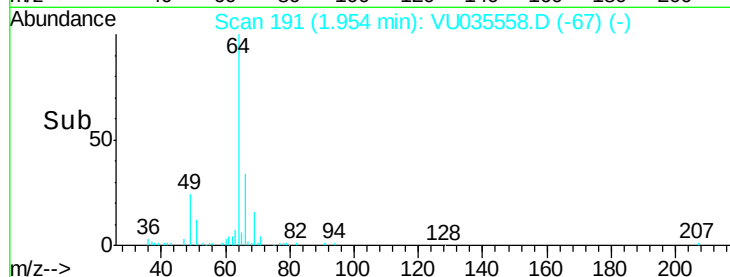
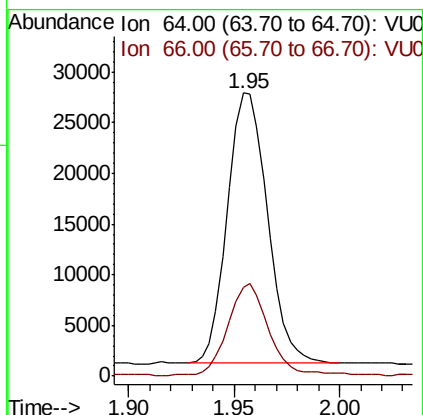
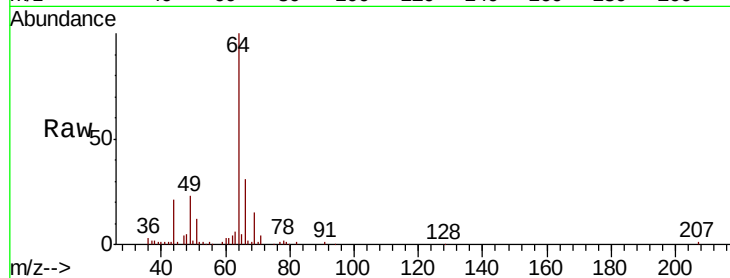




#8
Chloroethane
Concen: 9.064 ug/L
RT: 1.95 min Scan# 191
Delta R.T. -0.00 min
Lab File: VU035558.D
Acq: 30 Oct 2019 13:48

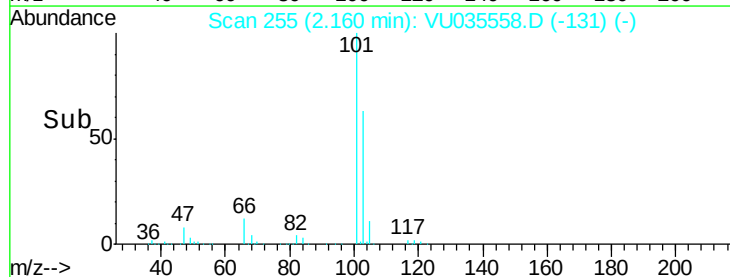
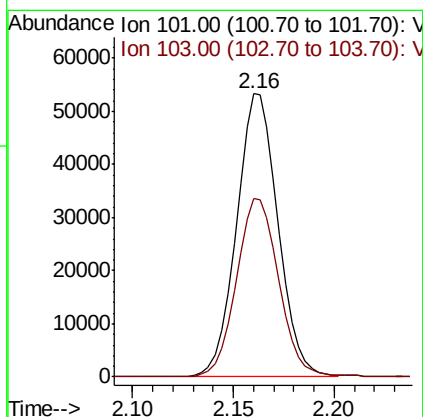
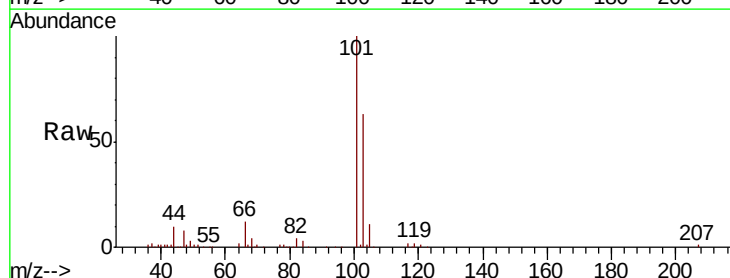
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

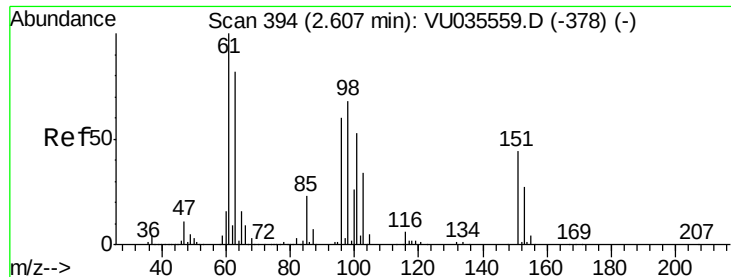
Tot Ion: 64 Resp: 35074
Ion Ratio Lower Upper
64 100
66 31.3 22.8 42.4



#9
Trichlorofluoromethane
Concen: 10.076 ug/L
RT: 2.16 min Scan# 255
Delta R.T. -0.00 min
Lab File: VU035558.D
Acq: 30 Oct 2019 13:48

Tgt Ion: 101 Resp: 76735
Ion Ratio Lower Upper
101 100
103 64.4 51.8 77.6





#10

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

Concen: 9.456 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampled :

VSTD01031

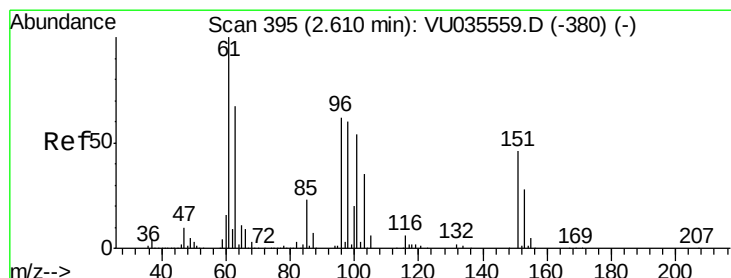
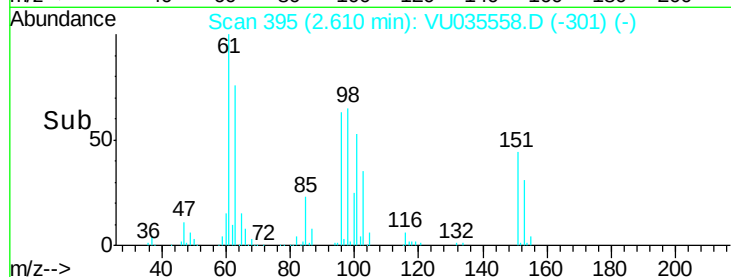
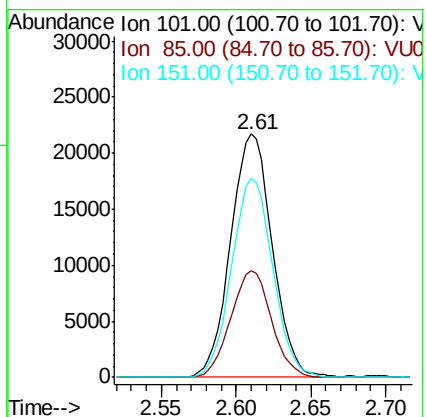
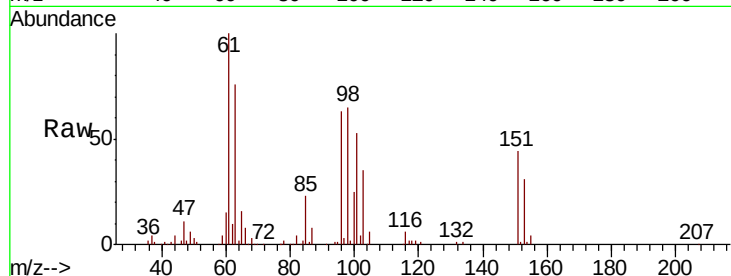
Tot Ion:101 Resp: 42109

Ion Ratio Lower Upper

101 100

85 42.6 34.0 51.0

151 80.7 64.2 96.4



#12

1,1-Dichloroethene

Concen: 9.986 ug/L

RT: 2.61 min Scan# 395

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

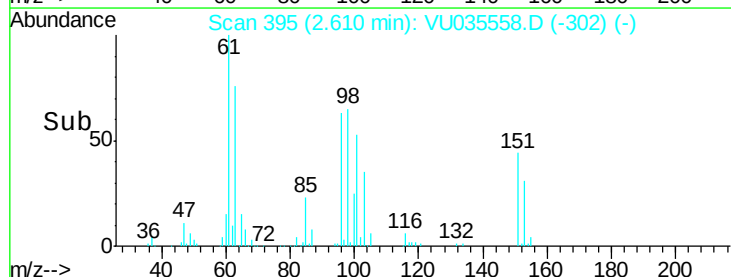
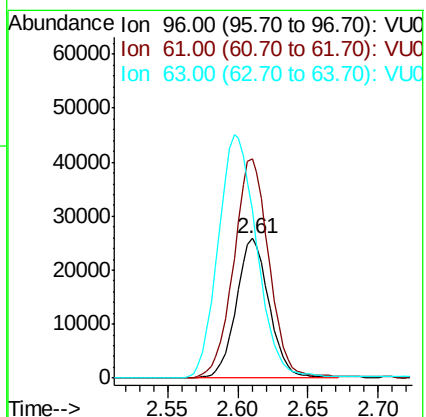
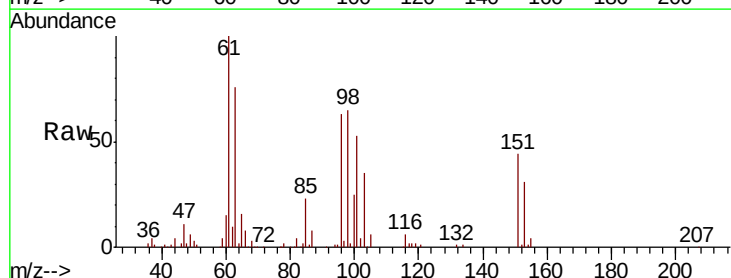
Tgt Ion: 96 Resp: 42334

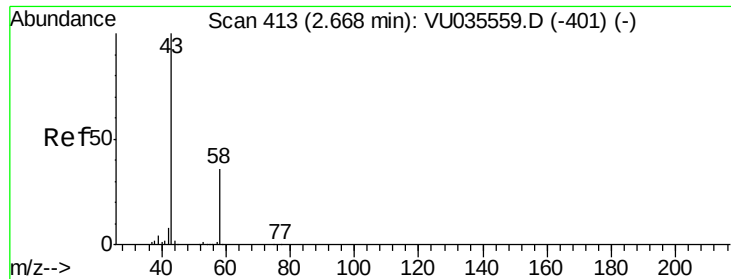
Ion Ratio Lower Upper

96 100

61 157.5 113.1 210.1

63 120.2 76.2 141.4





#13

Acetone

Concen: 17.509 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

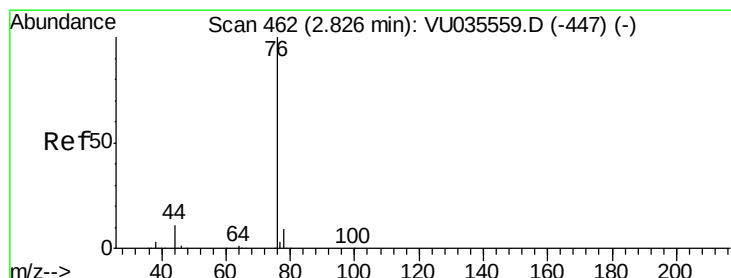
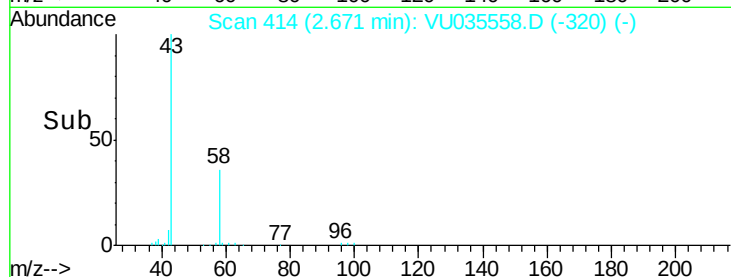
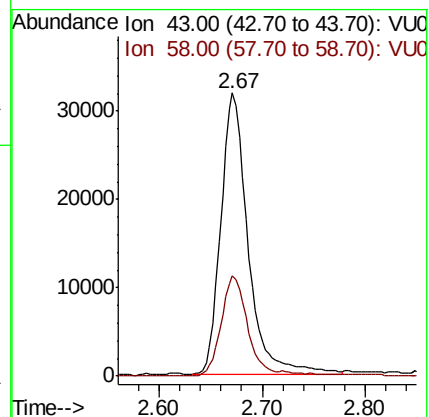
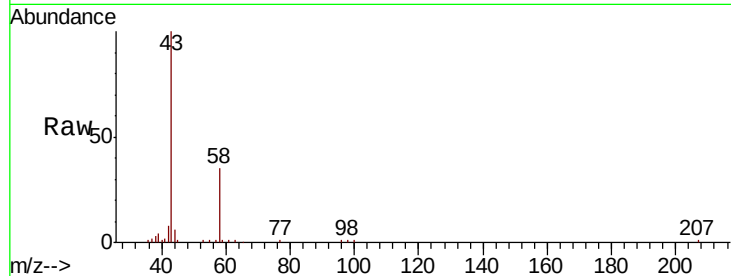
VSTD01031

Tot Ion: 43 Resp: 58482

Ion Ratio Lower Upper

43 100

58 34.1 0.0 70.0



#14

Carbon disulfide

Concen: 9.383 ug/L

RT: 2.83 min Scan# 462

Delta R.T. -0.00 min

Lab File: VU035558.D

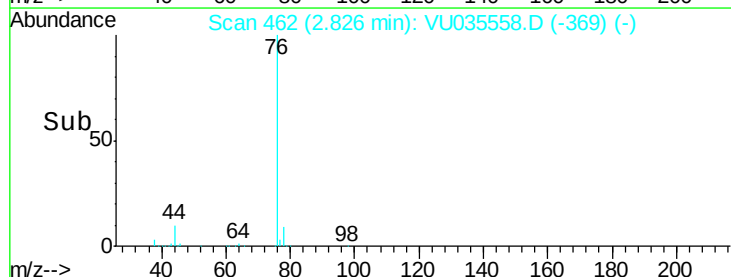
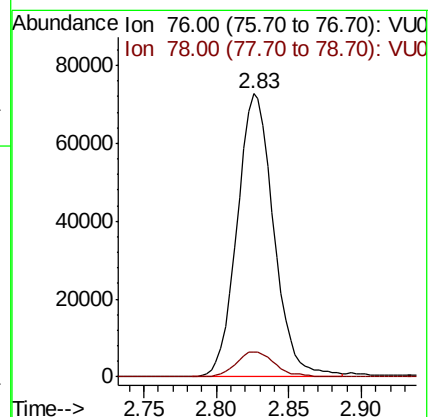
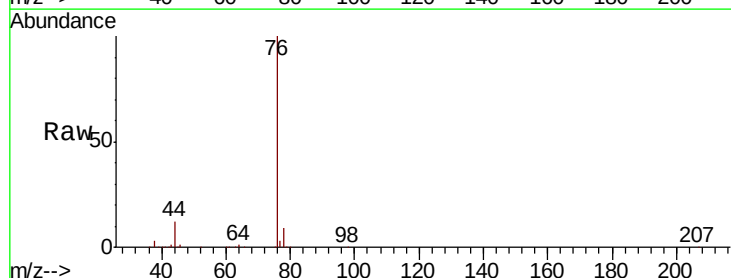
Acq: 30 Oct 2019 13:48

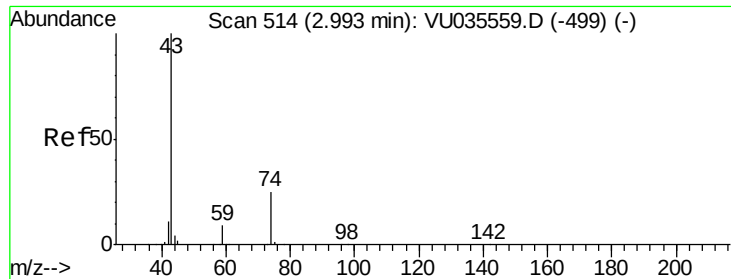
Tgt Ion: 76 Resp: 127261

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0

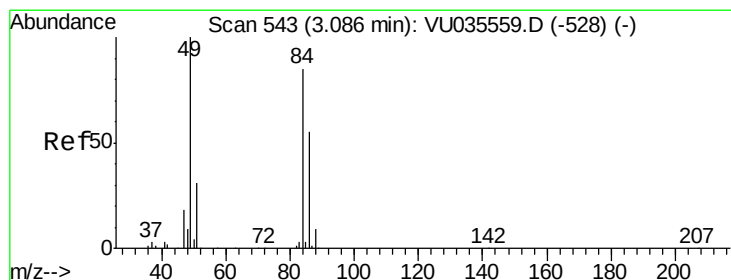
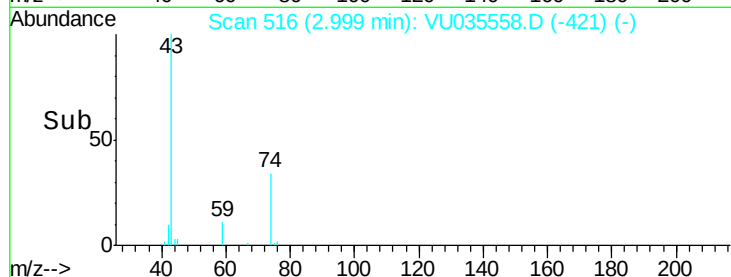
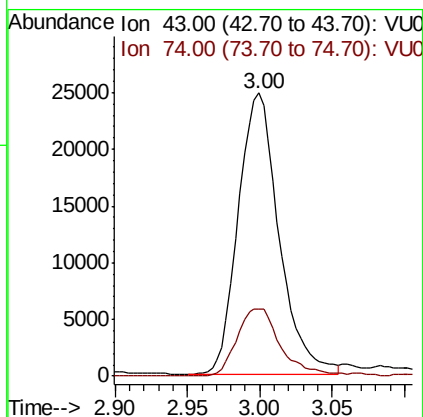
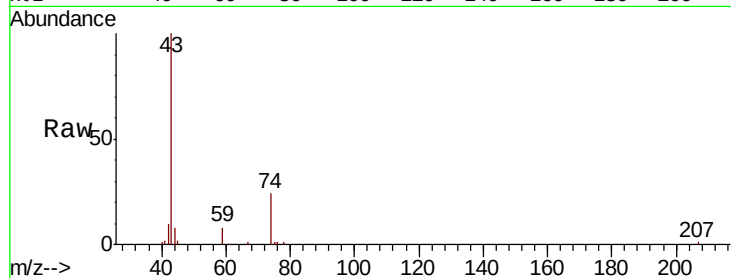




#15
Methyl Acetate
Concen: 8.649 ug/L
RT: 3.00 min Scan# 516
Delta R.T. 0.01 min
Lab File: VU035558.D
Acq: 30 Oct 2019 13:48

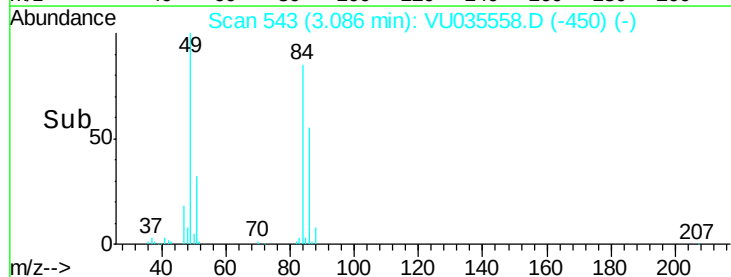
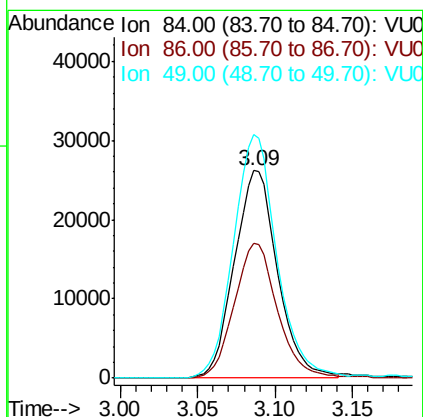
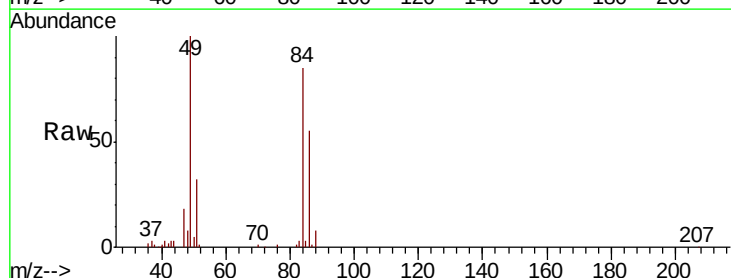
Instrument :
MSVOA_U
ClientSampled :
VSTD01031

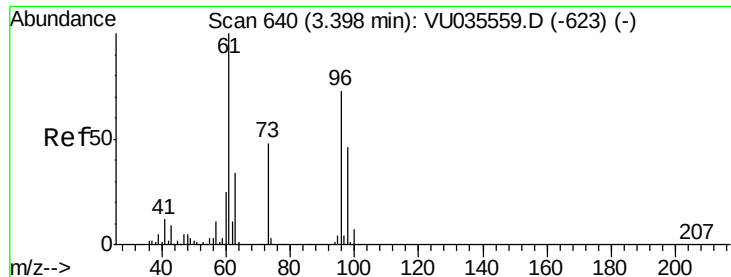
Tot Ion: 43 Resp: 48373
Ion Ratio Lower Upper
43 100
74 25.4 19.8 29.6



#16
Methylene chloride
Concen: 9.731 ug/L
RT: 3.09 min Scan# 543
Delta R.T. -0.00 min
Lab File: VU035558.D
Acq: 30 Oct 2019 13:48

Tgt Ion: 84 Resp: 50930
Ion Ratio Lower Upper
84 100
86 64.9 45.1 83.7
49 117.4 82.7 153.5





#17

trans-1,2-Dichloroethene

Concen: 9.405 ug/L

RT: 3.40 min Scan# 640

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

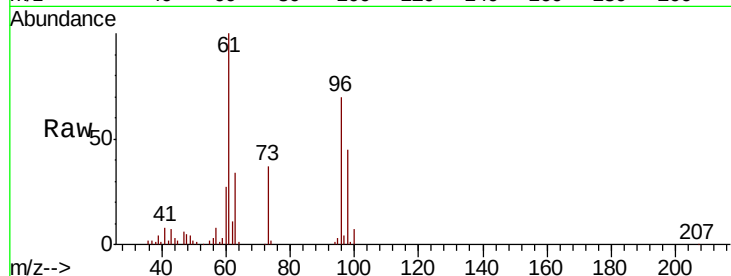
Tot Ion: 96 Resp: 42189

Ion Ratio Lower Upper

96 100

61 142.1 95.3 176.9

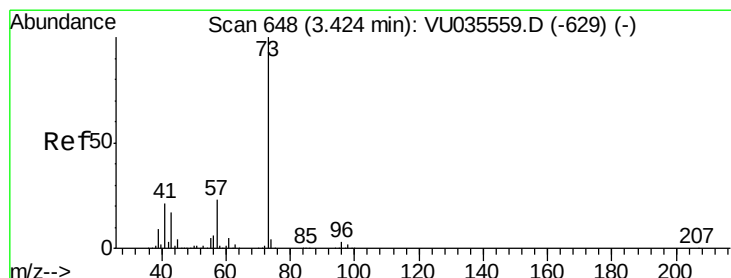
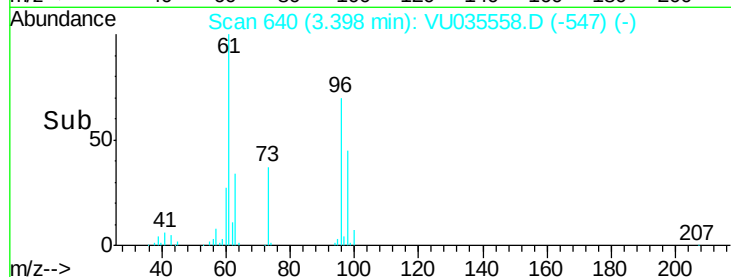
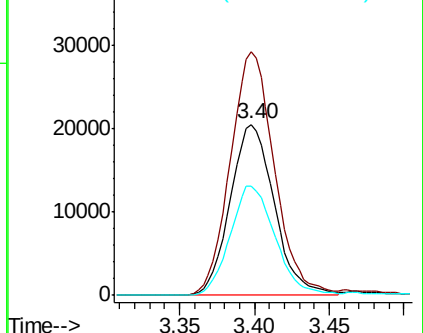
98 63.8 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU035558.D (-547) (-)

Ion 61.00 (60.70 to 61.70): VU035558.D (-547) (-)

Ion 98.00 (97.70 to 98.70): VU035558.D (-547) (-)



#18

Methyl tert-butyl Ether

Concen: 9.004 ug/L

RT: 3.42 min Scan# 648

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

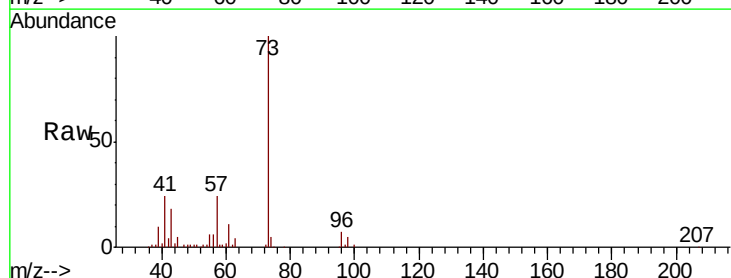
Tgt Ion: 73 Resp: 125773

Ion Ratio Lower Upper

73 100

43 17.7 14.2 21.2

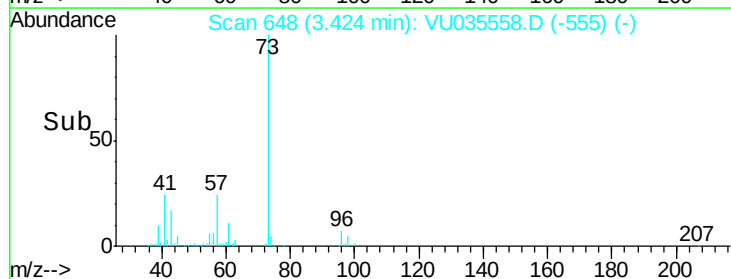
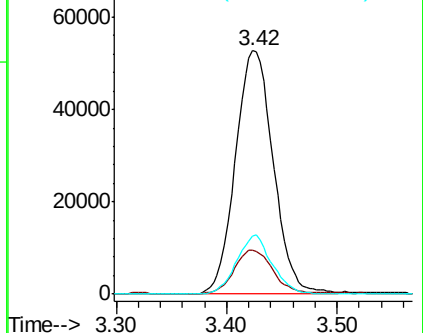
57 22.5 18.3 27.5

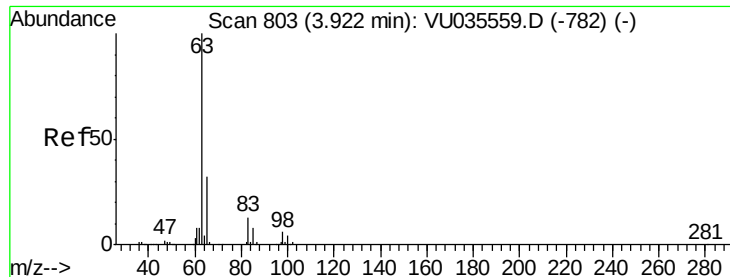


Abundance Ion 73.00 (72.70 to 73.70): VU035558.D (-555) (-)

Ion 43.00 (42.70 to 43.70): VU035558.D (-555) (-)

Ion 57.00 (56.70 to 57.70): VU035558.D (-555) (-)





#19

1,1-Dichloroethane

Concen: 9.478 ug/L

RT: 3.92 min Scan# 803

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

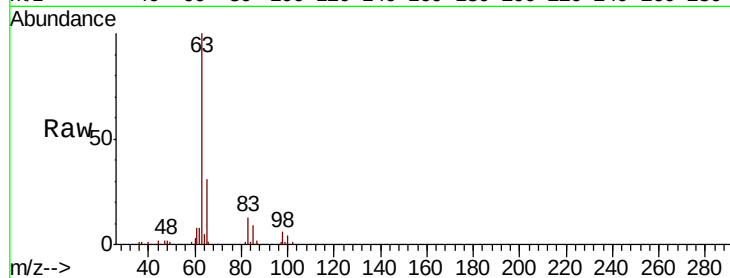
Tot Ion: 63 Resp: 86512

Ion Ratio Lower Upper

63 100

65 30.9 22.1 41.1

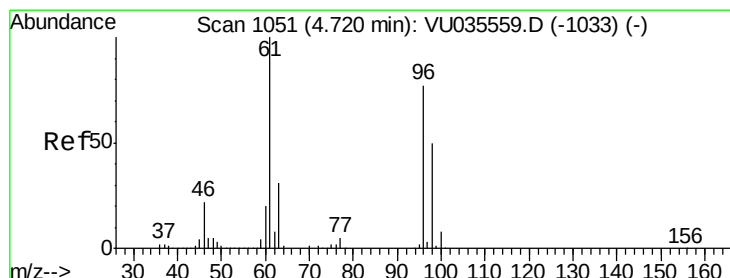
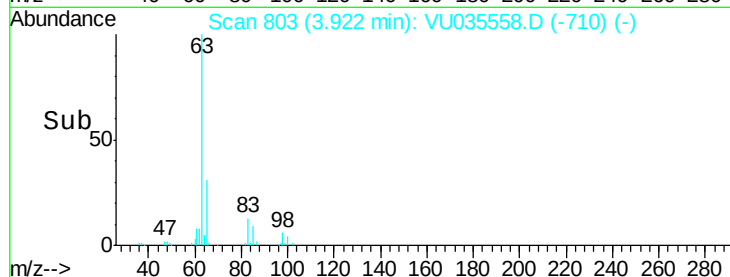
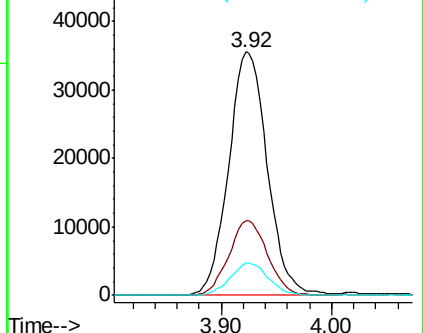
83 13.4 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU035558.D (-710) (-)

Ion 65.00 (64.70 to 65.70): VU035558.D (-710) (-)

Ion 83.00 (82.70 to 83.70): VU035558.D (-710) (-)



#20

cis-1,2-Dichloroethene

Concen: 9.222 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

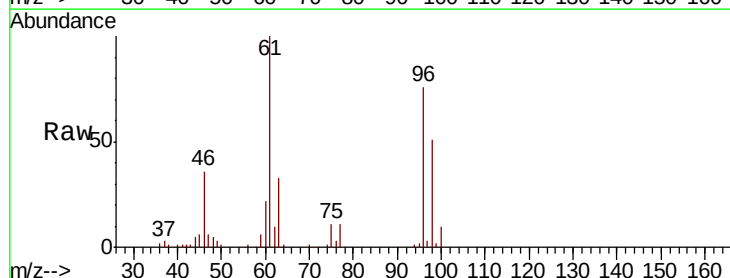
Tgt Ion: 96 Resp: 46625

Ion Ratio Lower Upper

96 100

61 131.7 90.6 168.3

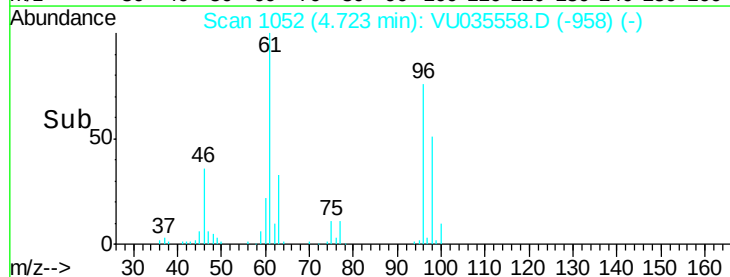
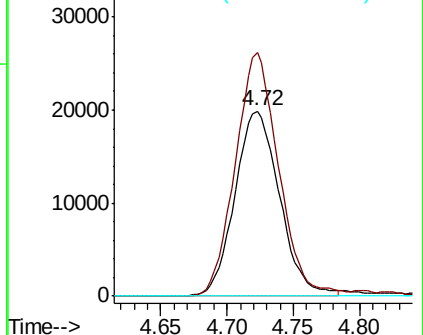
68 0.0 0.0 0.0

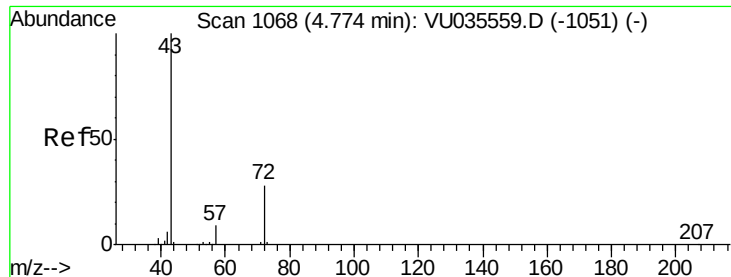


Abundance Ion 96.00 (95.70 to 96.70): VU035558.D (-958) (-)

Ion 61.00 (60.70 to 61.70): VU035558.D (-958) (-)

Ion 68.00 (67.70 to 68.70): VU035558.D (-958) (-)





#22

2-Butanone

Concen: 16.550 ug/L

RT: 4.78 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

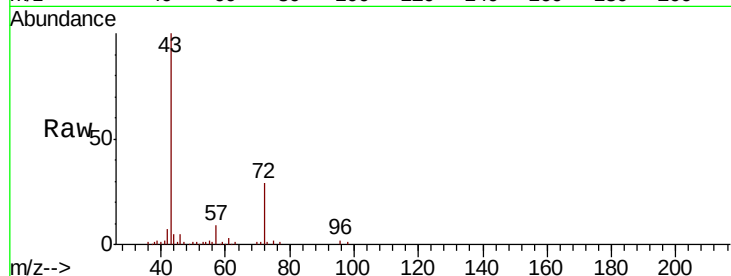
VSTD01031

Tot Ion: 43 Resp: 69771

Ion Ratio Lower Upper

43 100

72 26.7 13.5 40.4

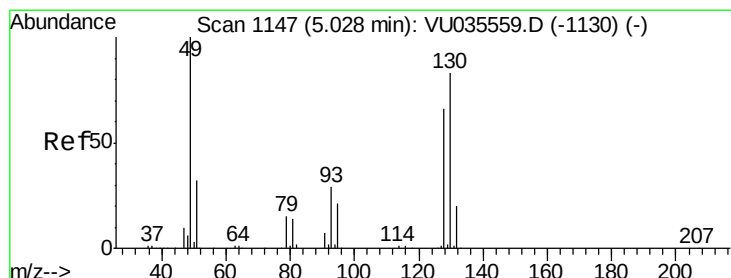
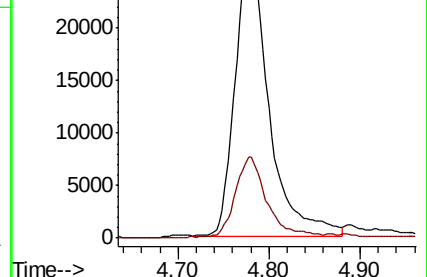
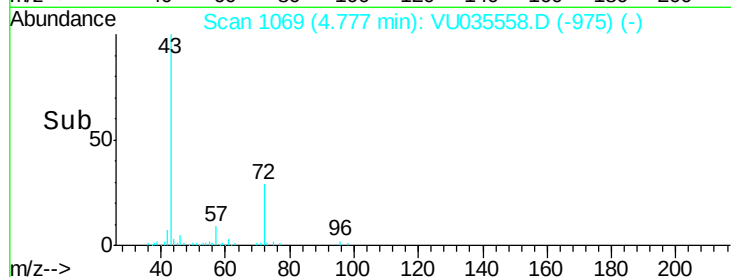


Abundance Ion 43.00 (42.70 to 43.70): VU035558.D (-1051) (-)

Ion 72.00 (71.70 to 72.70): VU035558.D (-1051) (-)

4.78

Time-->



#23

Bromochloromethane

Concen: 10.029 ug/L

RT: 5.03 min Scan# 1148

Delta R.T. 0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Tgt Ion: 128 Resp: 26035

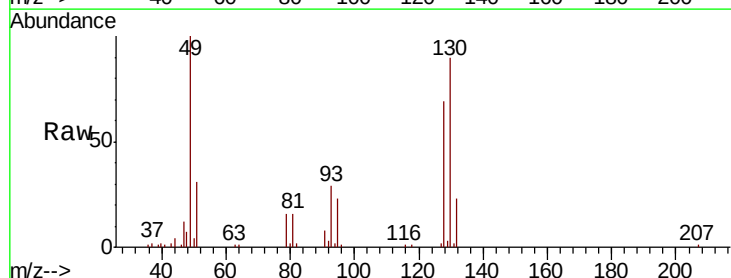
Ion Ratio Lower Upper

128 100

49 144.3 106.4 197.6

130 130.6 88.1 163.5

51 45.5 38.8 58.2



Abundance Ion 128.00 (127.70 to 128.70): VU035558.D (-1130) (-)

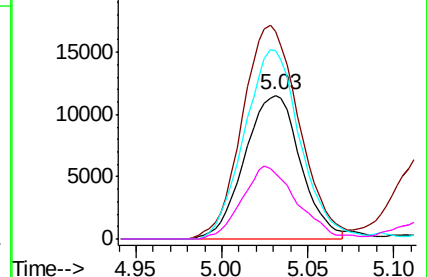
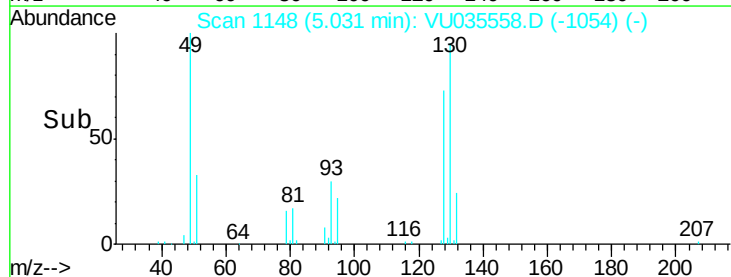
Ion 49.00 (48.70 to 49.70): VU035558.D (-1130) (-)

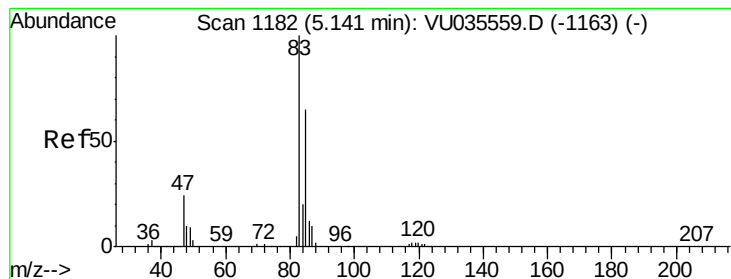
Ion 130.00 (129.70 to 130.70): VU035558.D (-1130) (-)

Ion 51.00 (50.70 to 51.70): VU035558.D (-1130) (-)

5.03

Time-->





#25

Chloroform

Concen: 9.588 ug/L

RT: 5.14 min Scan# 1182

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

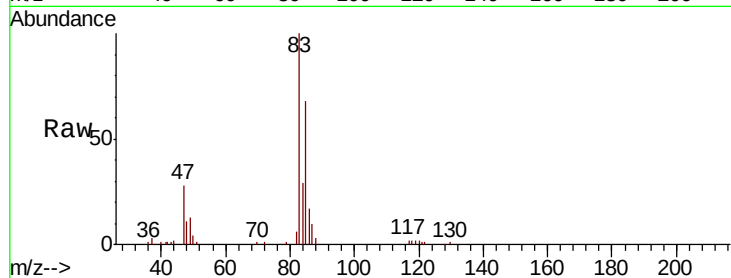
VSTD01031

Tot Ion: 83 Resp: 86900

Ion Ratio Lower Upper

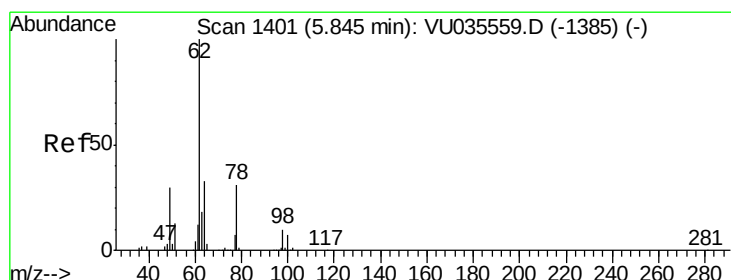
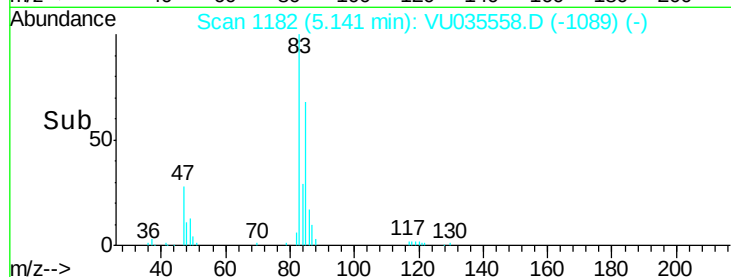
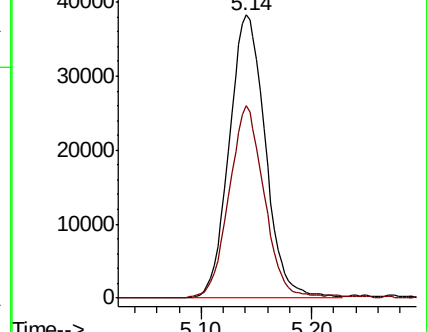
83 100

85 67.9 45.4 84.4



Abundance Ion 83.00 (82.70 to 83.70): VU035558.D (-1089) (-)

Ion 85.00 (84.70 to 85.70): VU035558.D (-1089) (-)



#27

1,2-Dichloroethane

Concen: 9.081 ug/L

RT: 5.84 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VU035558.D

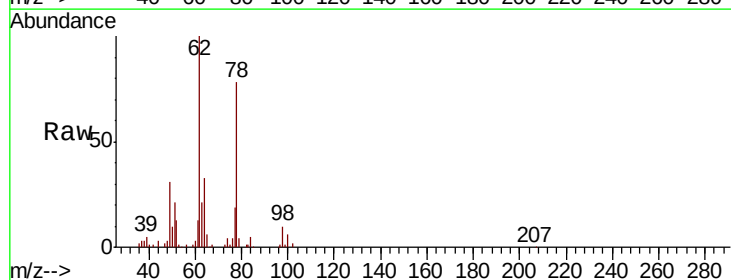
Acq: 30 Oct 2019 13:48

Tgt Ion: 62 Resp: 62649

Ion Ratio Lower Upper

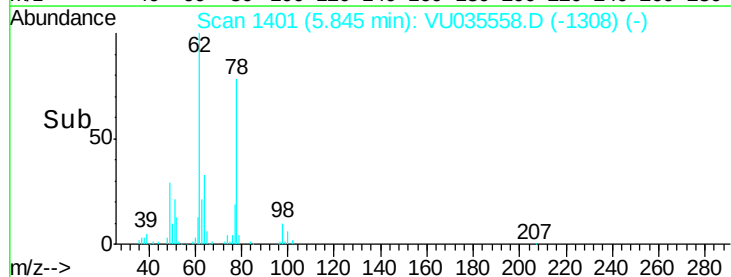
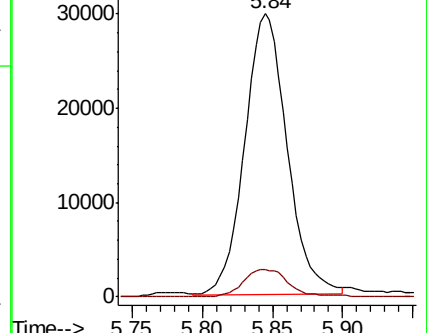
62 100

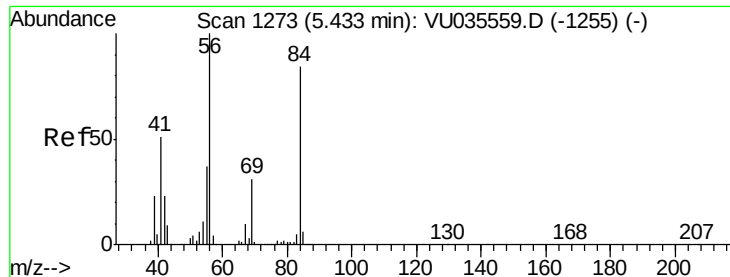
98 9.5 8.2 12.2



Abundance Ion 62.00 (61.70 to 62.70): VU035558.D (-1308) (-)

Ion 98.00 (97.70 to 98.70): VU035558.D (-1308) (-)

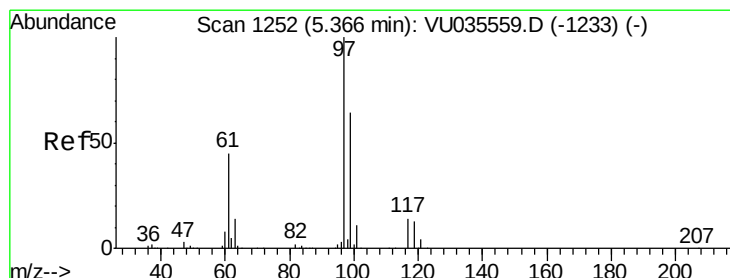
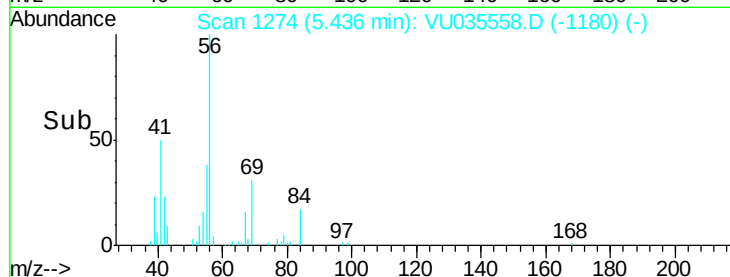
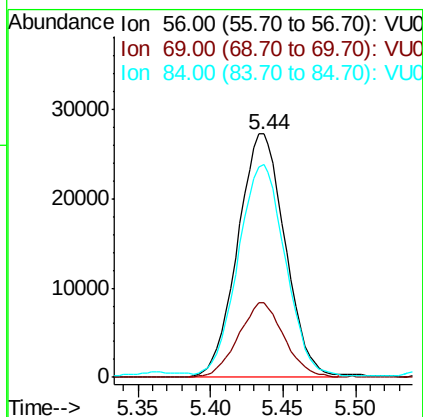
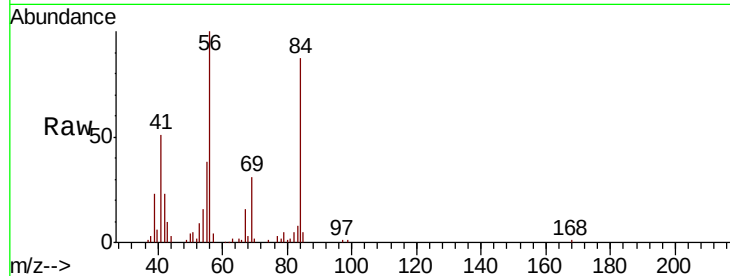




#29
Cyclohexane
Concen: 8.570 ug/L
RT: 5.44 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VU035558.D
Acq: 30 Oct 2019 13:48

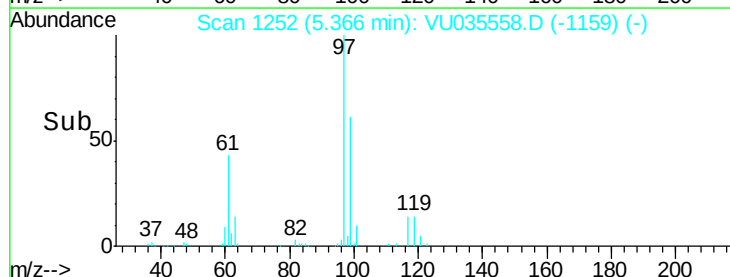
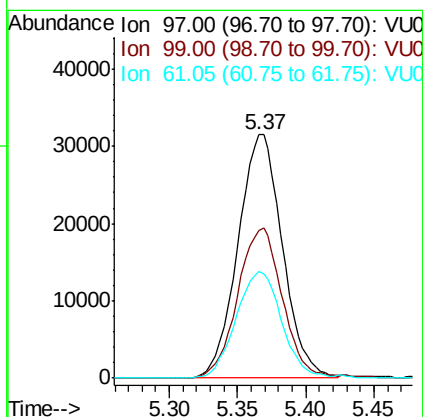
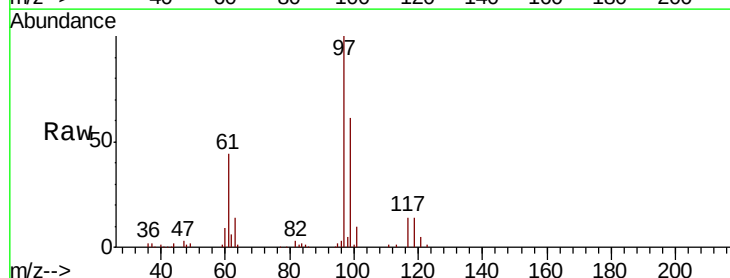
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

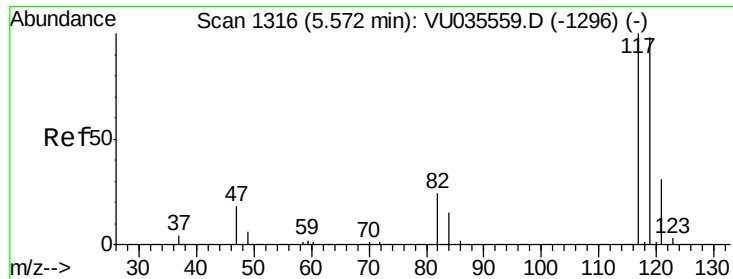
Tot Ion: 56 Resp: 61944
Ion Ratio Lower Upper
56 100
69 29.6 24.4 36.6
84 85.8 68.6 102.8



#30
1,1,1-Trichloroethane
Concen: 10.014 ug/L
RT: 5.37 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VU035558.D
Acq: 30 Oct 2019 13:48

Tgt Ion: 97 Resp: 71438
Ion Ratio Lower Upper
97 100
99 61.7 51.5 77.3
61 44.8 35.1 52.7





#31

Carbon tetrachloride

Concen: 10.081 ug/L

RT: 5.57 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

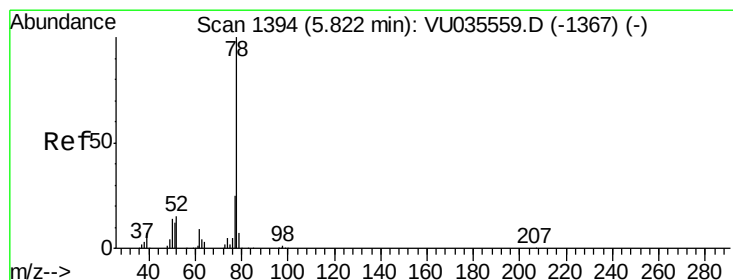
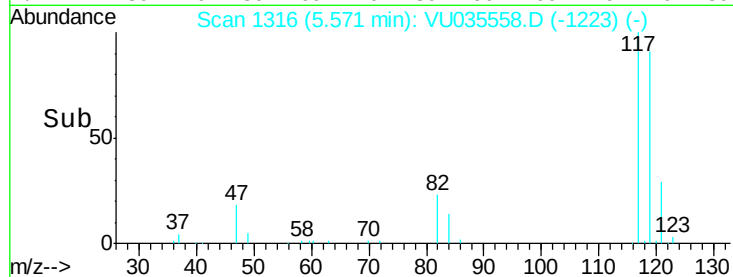
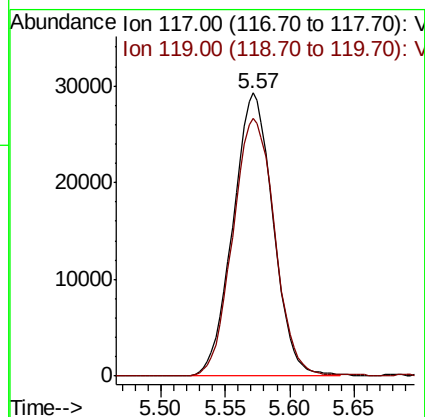
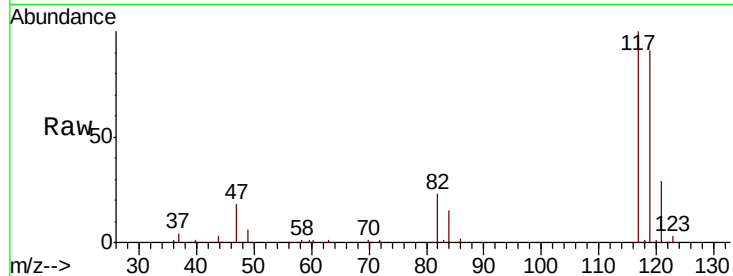
VSTD01031

Tot Ion:117 Resp: 63496

Ion Ratio Lower Upper

117 100

119 94.6 77.4 116.2



#33

Benzene

Concen: 9.594 ug/L

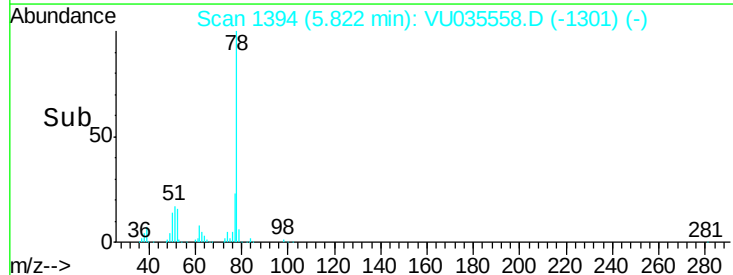
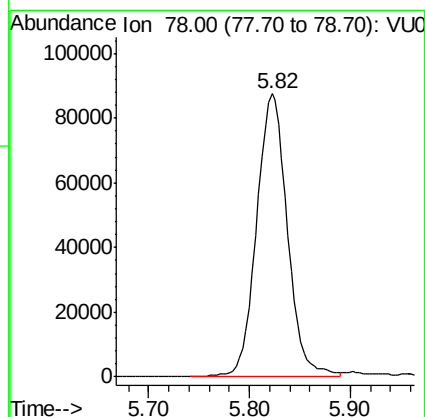
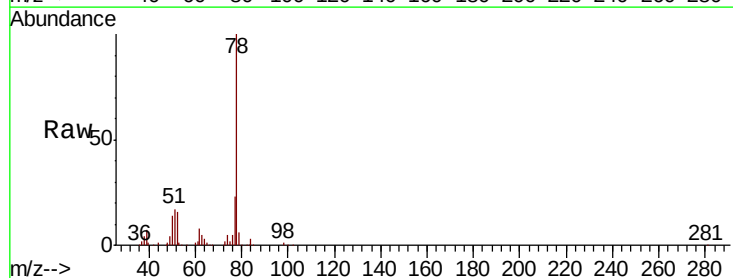
RT: 5.82 min Scan# 1394

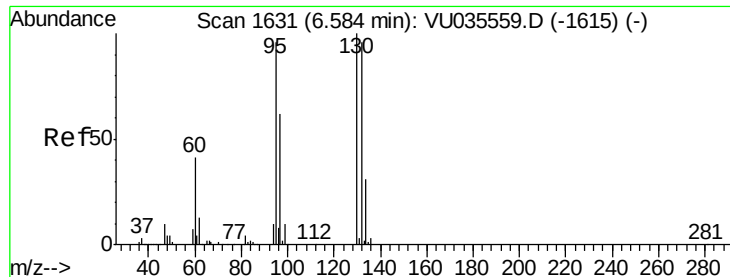
Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Tgt Ion: 78 Resp: 185290

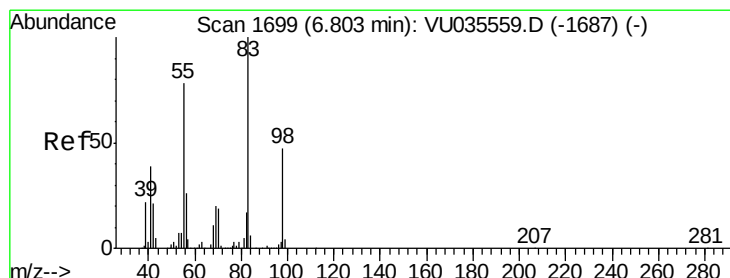
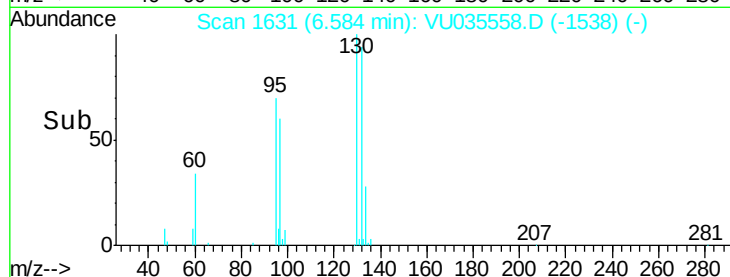
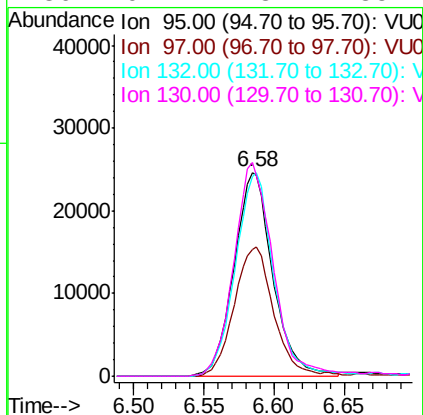
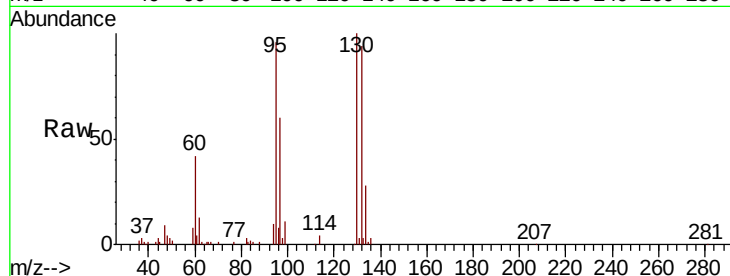




#34
 Trichloroethene
 Concen: 9.885 ug/L
 RT: 6.58 min Scan# 1631
 Delta R.T. -0.00 min
 Lab File: VU035558.D
 Acq: 30 Oct 2019 13:48

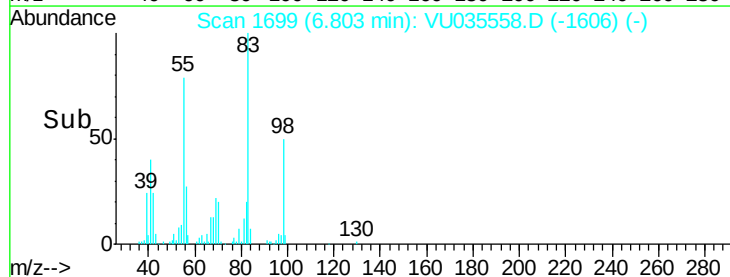
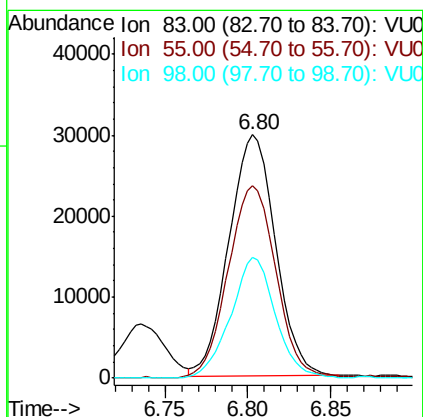
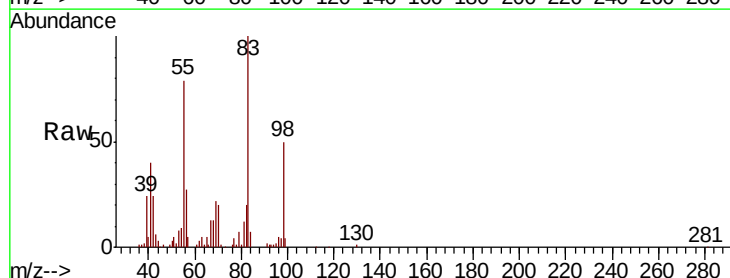
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

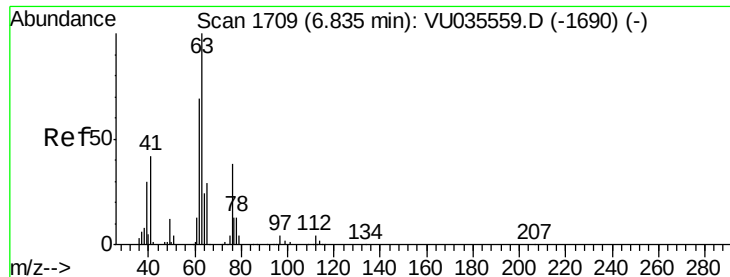
Tot Ion: 95 Resp: 47245
 Ion Ratio Lower Upper
 95 100
 97 62.4 45.6 84.6
 132 97.9 69.9 129.7
 130 104.7 73.1 135.7



#35
 Methylcyclohexane
 Concen: 8.673 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VU035558.D
 Acq: 30 Oct 2019 13:48

Tgt Ion: 83 Resp: 58374
 Ion Ratio Lower Upper
 83 100
 55 81.9 61.0 91.4
 98 48.0 36.6 54.8

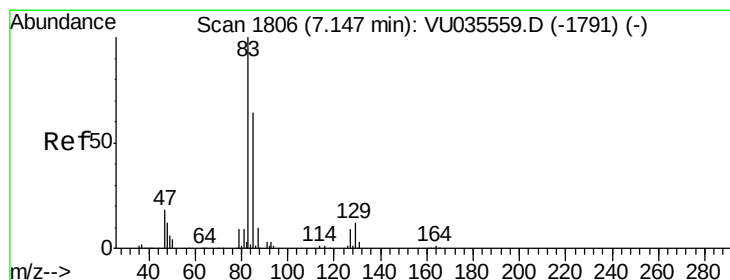
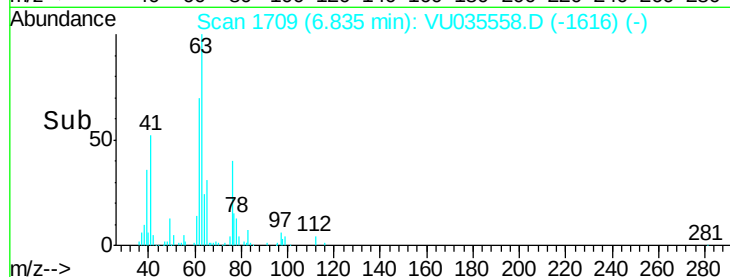
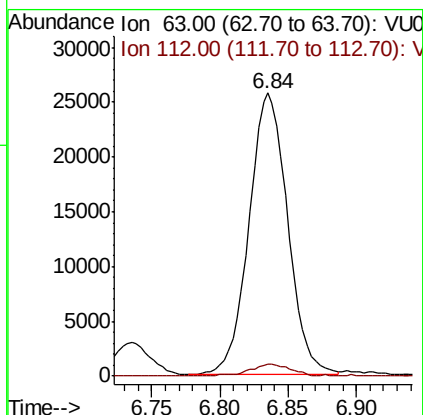
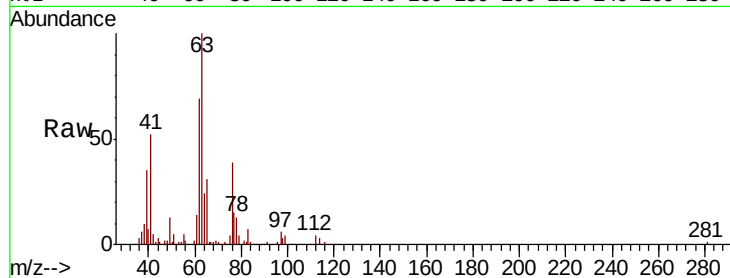




#37
 1,2-Dichloropropane
 Concen: 9.581 ug/L
 RT: 6.84 min Scan# 1709
 Delta R.T. -0.00 min
 Lab File: VU035558.D
 Acq: 30 Oct 2019 13:48

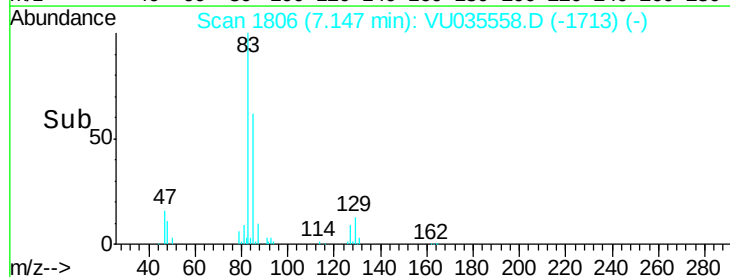
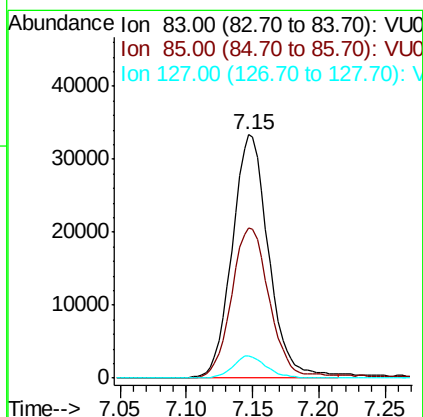
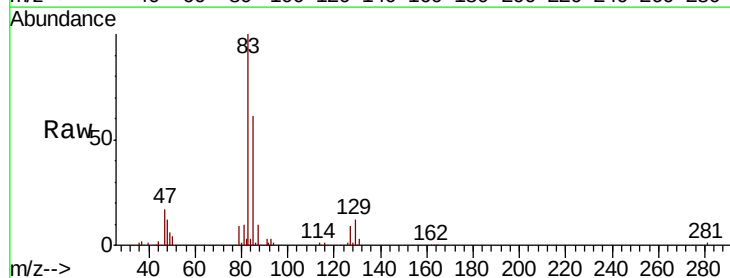
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

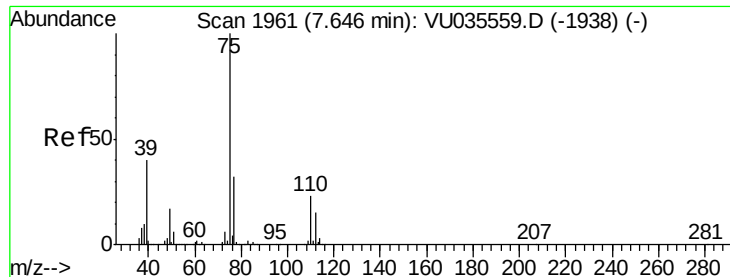
Tot Ion: 63 Resp: 50724
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.2 4.8



#38
 Bromodichloromethane
 Concen: 9.728 ug/L
 RT: 7.15 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VU035558.D
 Acq: 30 Oct 2019 13:48

Tgt Ion: 83 Resp: 63791
 Ion Ratio Lower Upper
 83 100
 85 61.5 45.1 83.7
 127 9.3 7.2 10.8



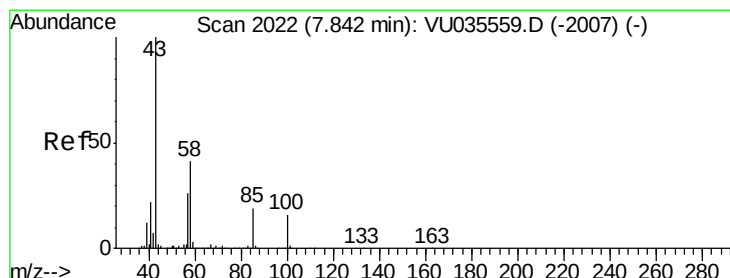
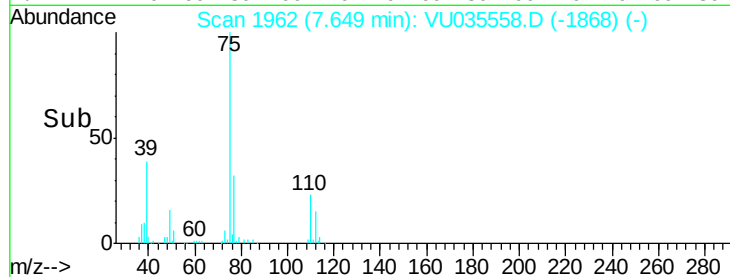
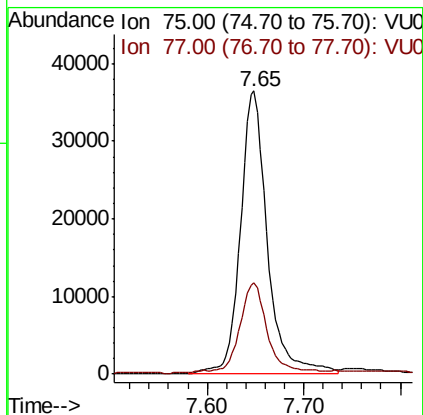
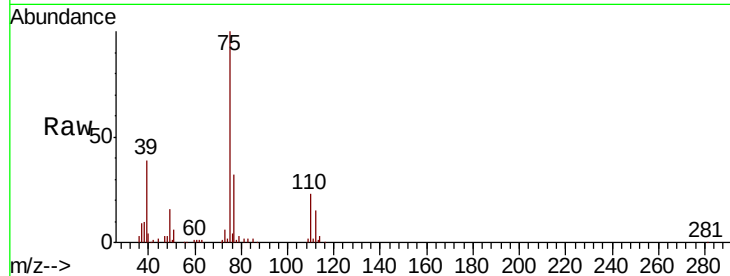


#39

cis-1,3-Dichloropropene
 Concen: 9.113 ug/L
 RT: 7.65 min Scan# 1962
 Delta R.T. 0.00 min
 Lab File: VU035558.D
 Acq: 30 Oct 2019 13:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

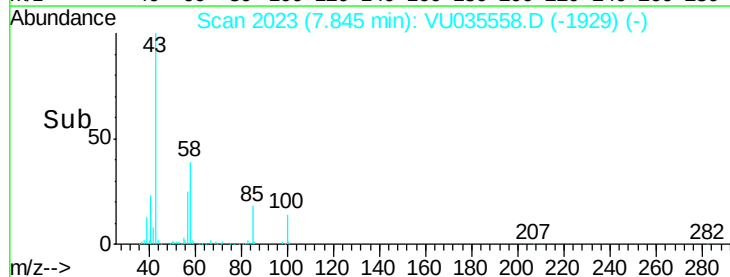
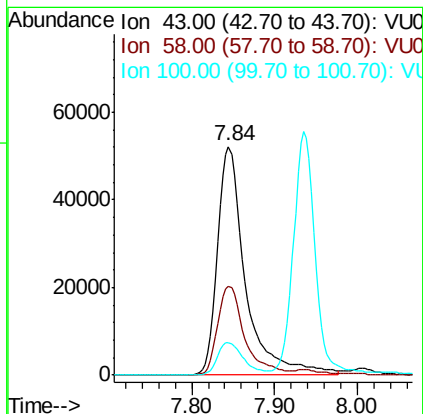
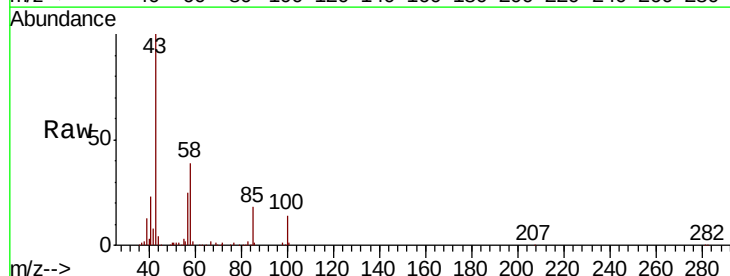
Tot Ion: 75 Resp: 71107
 Ion Ratio Lower Upper
 75 100
 77 32.3 22.3 41.5

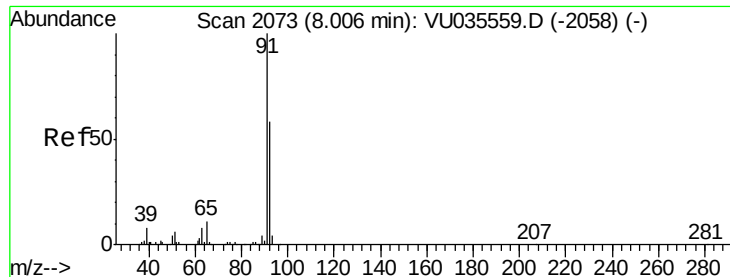


#40

4-Methyl-2-pentanone
 Concen: 17.146 ug/L
 RT: 7.84 min Scan# 2023
 Delta R.T. 0.00 min
 Lab File: VU035558.D
 Acq: 30 Oct 2019 13:48

Tgt Ion: 43 Resp: 122418
 Ion Ratio Lower Upper
 43 100
 58 37.5 32.6 49.0
 100 13.5 12.6 19.0





#42

Toluene

Concen: 9.479 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

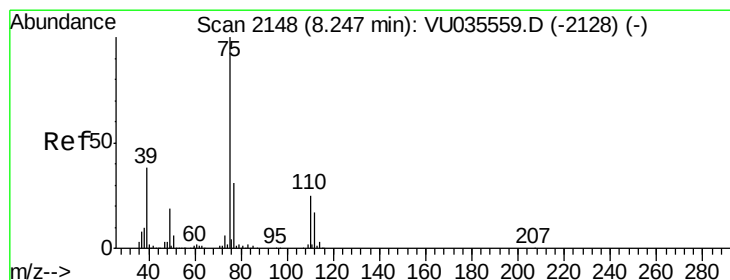
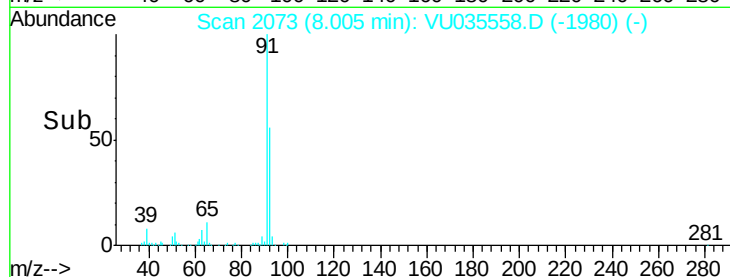
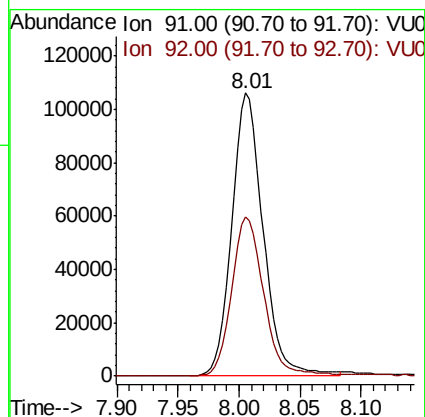
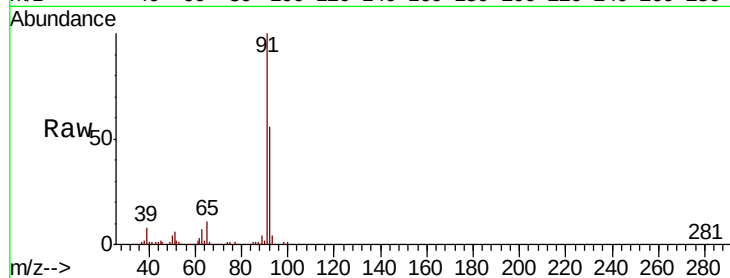
VSTD01031

Tot Ion: 91 Resp: 189961

Ion Ratio Lower Upper

91 100

92 56.4 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 9.102 ug/L

RT: 8.25 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VU035558.D

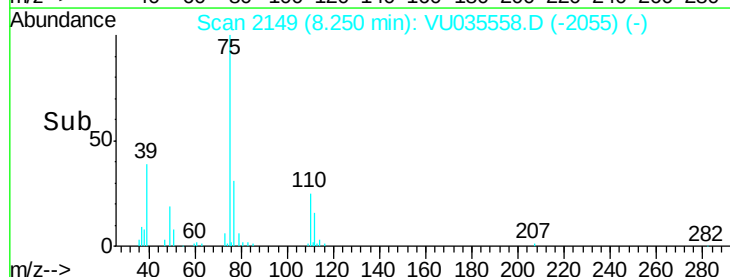
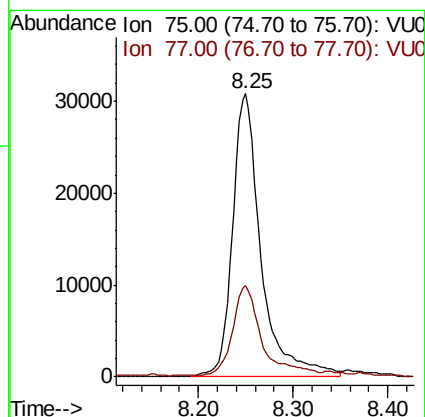
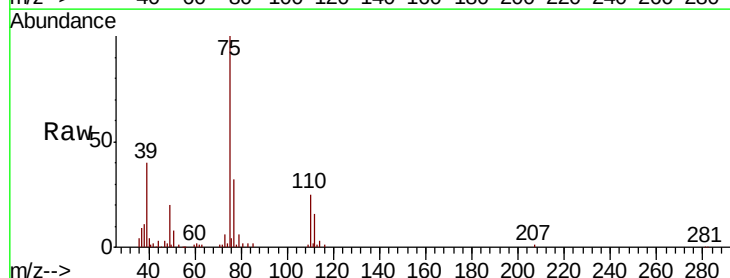
Acq: 30 Oct 2019 13:48

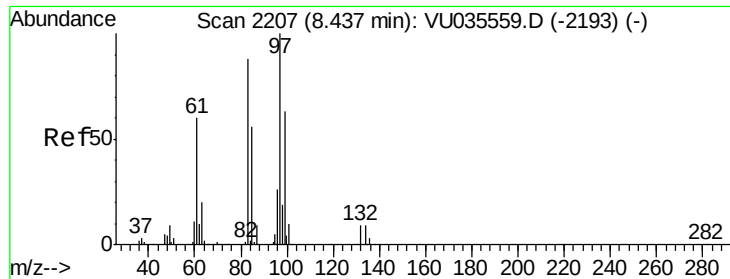
Tgt Ion: 75 Resp: 64708

Ion Ratio Lower Upper

75 100

77 32.1 22.1 41.1

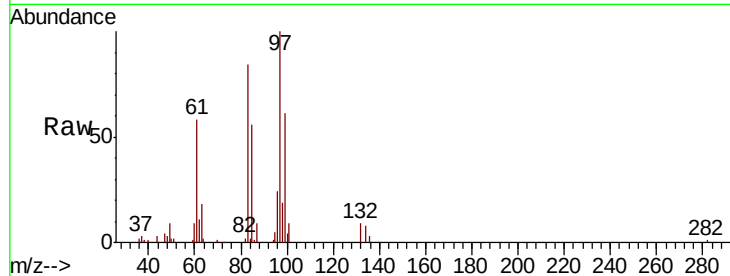




#45
1,1,2-Trichloroethane
Concen: 9.961 ug/L
RT: 8.44 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VU035558.D
Acq: 30 Oct 2019 13:48

Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

Tot Ion:	97	Resp:	48360
Ion	Ratio	Lower	Upper
97	100		
99	61.3	44.2	82.2
83	84.3	61.5	114.3
85	55.9	39.3	73.1



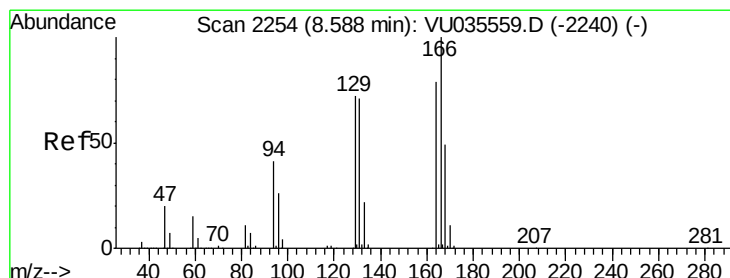
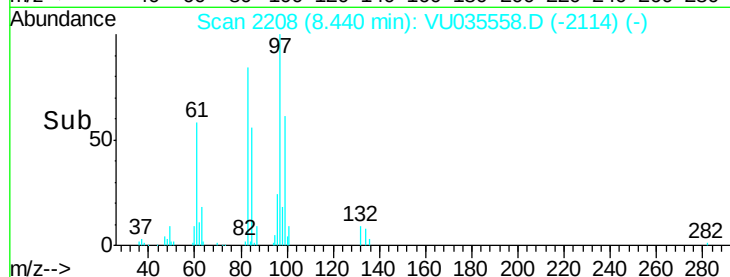
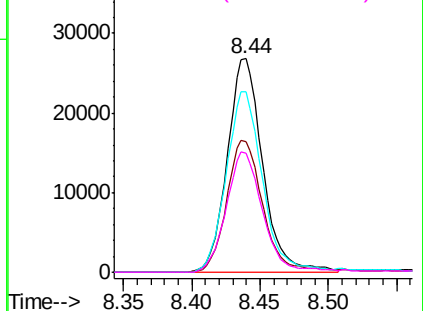
Abundance

Ion 97.00 (96.70 to 97.70): VU035558.D (-2114) (-)

Ion 99.00 (98.70 to 99.70): VU035558.D (-2114) (-)

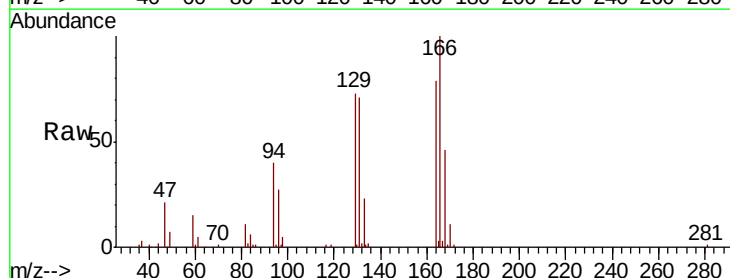
Ion 83.00 (82.70 to 83.70): VU035558.D (-2114) (-)

Ion 85.00 (84.70 to 85.70): VU035558.D (-2114) (-)



#46
Tetrachloroethene
Concen: 10.234 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. -0.00 min
Lab File: VU035558.D
Acq: 30 Oct 2019 13:48

Tgt Ion:	164	Resp:	38763
Ion	Ratio	Lower	Upper
164	100		
129	93.4	64.1	119.1
131	90.1	63.1	117.1
166	127.3	88.5	164.3



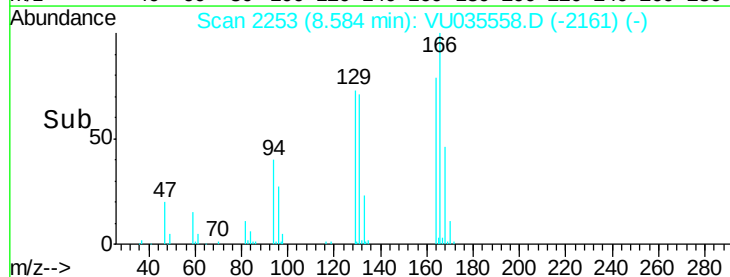
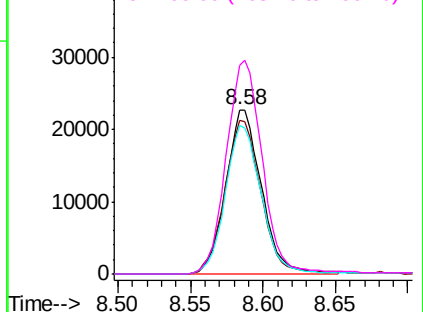
Abundance

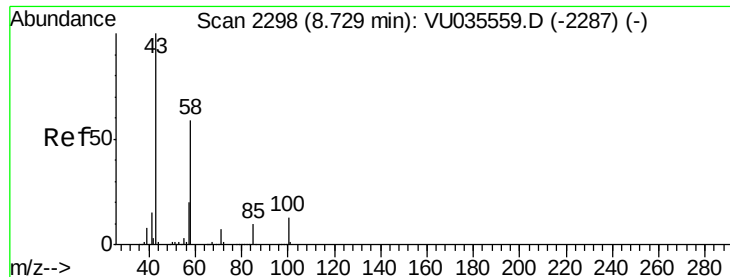
Ion 164.00 (163.70 to 164.70): VU035558.D (-2161) (-)

Ion 129.00 (128.70 to 129.70): VU035558.D (-2161) (-)

Ion 131.00 (130.70 to 131.70): VU035558.D (-2161) (-)

Ion 166.00 (165.70 to 166.70): VU035558.D (-2161) (-)

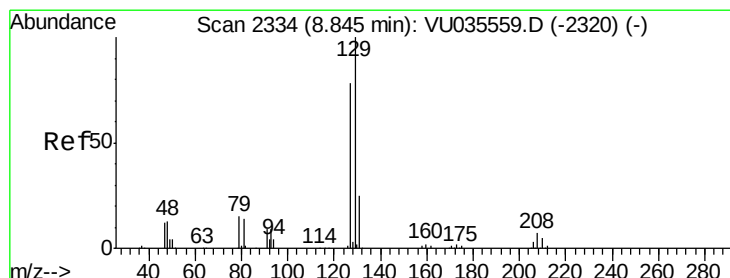
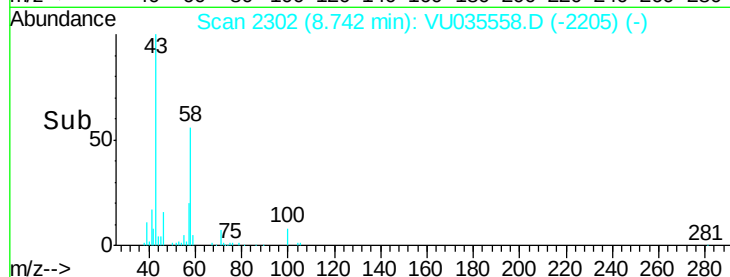
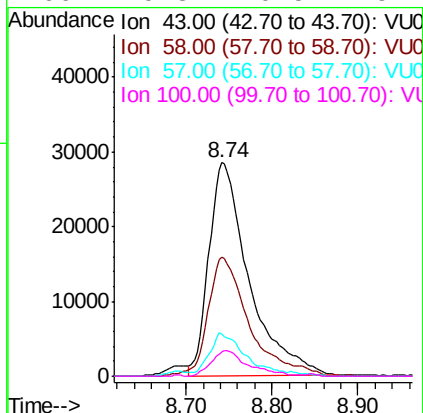
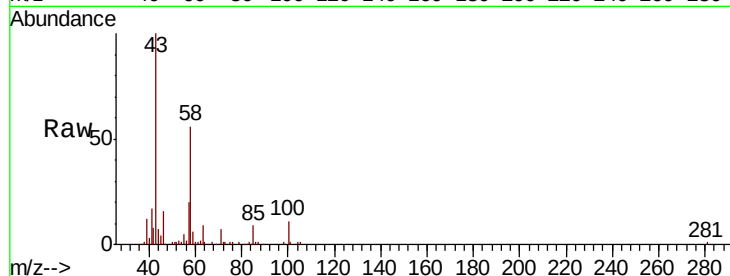




#48
2-Hexanone
Concen: 16.167 ug/L
RT: 8.74 min Scan# 2302
Delta R.T. 0.01 min
Lab File: VU035558.D
Acq: 30 Oct 2019 13:48

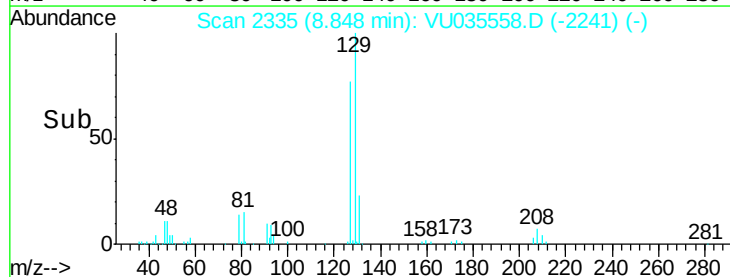
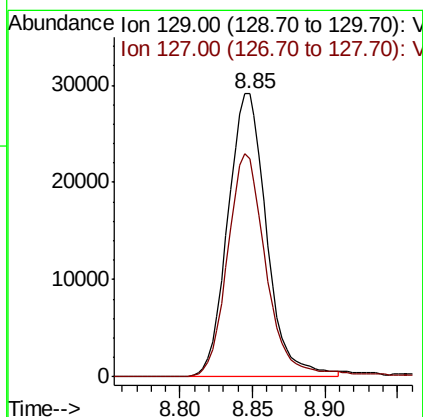
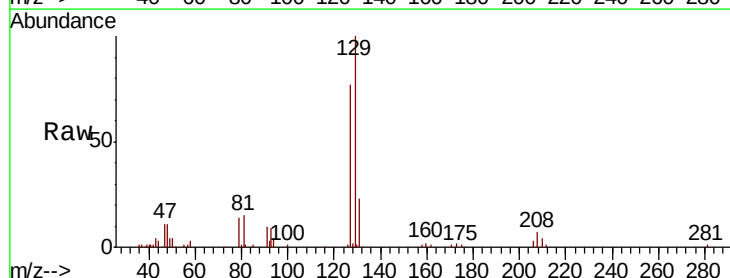
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

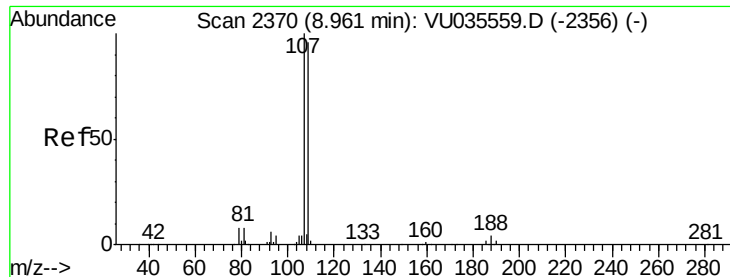
Tot Ion: 43 Resp: 92747
Ion Ratio Lower Upper
43 100
58 55.4 50.4 75.6
57 15.7 17.4 26.0#
100 9.3 10.5 15.7#



#49
Dibromochloromethane
Concen: 10.293 ug/L
RT: 8.85 min Scan# 2335
Delta R.T. 0.00 min
Lab File: VU035558.D
Acq: 30 Oct 2019 13:48

Tgt Ion: 129 Resp: 54171
Ion Ratio Lower Upper
129 100
127 77.0 54.9 101.9

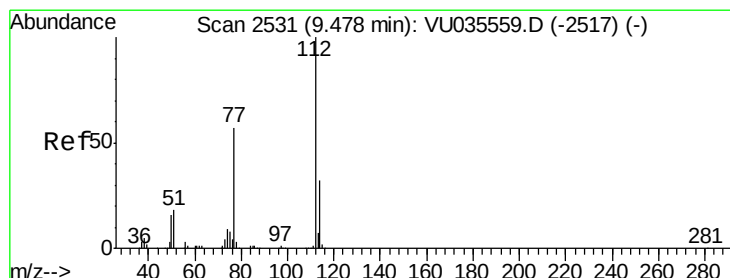
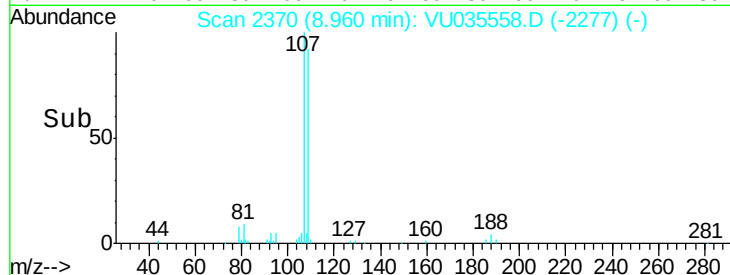
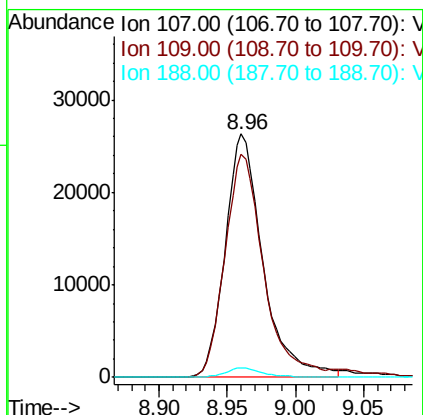
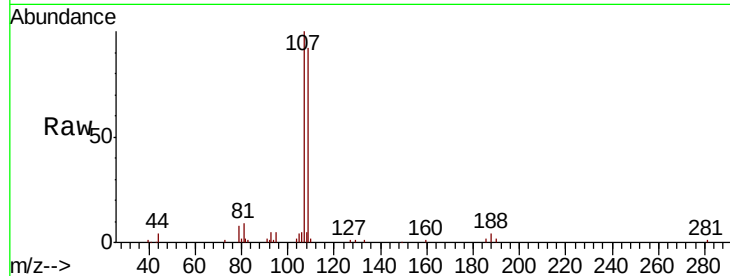




#50
 1,2-Dibromoethane
 Concen: 9.888 ug/L
 RT: 8.96 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VU035558.D
 Acq: 30 Oct 2019 13:48

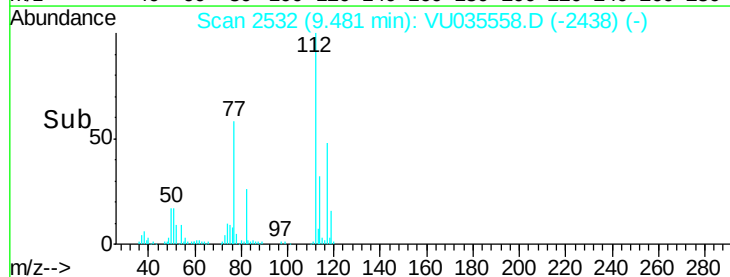
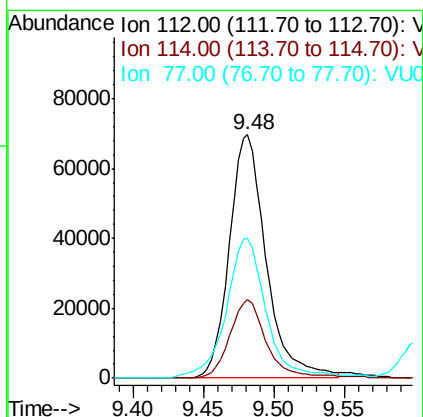
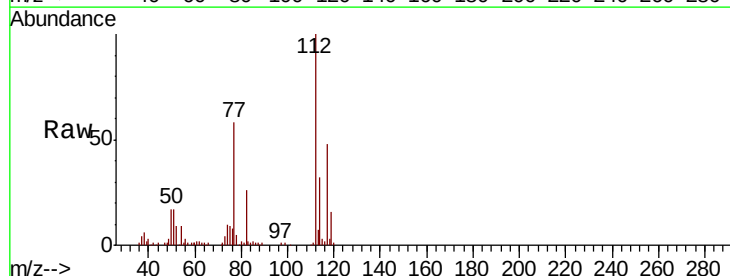
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

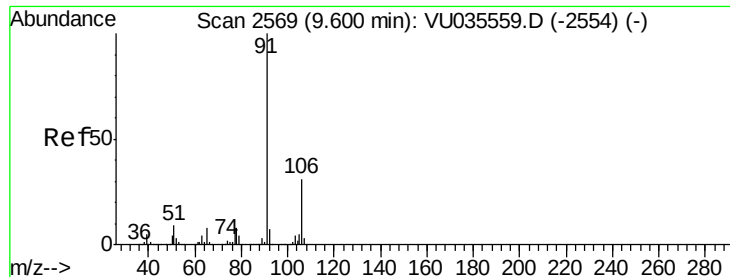
Tot Ion	Ratio	Lower	Upper
107	100		
109	91.9	66.8	124.2
188	4.0	3.2	4.8



#51
 Chlorobenzene
 Concen: 9.776 ug/L
 RT: 9.48 min Scan# 2532
 Delta R.T. 0.00 min
 Lab File: VU035558.D
 Acq: 30 Oct 2019 13:48

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.7	42.3
77	57.5	45.9	68.9





#52

Ethylbenzene

Concen: 9.084 ug/L

RT: 9.60 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

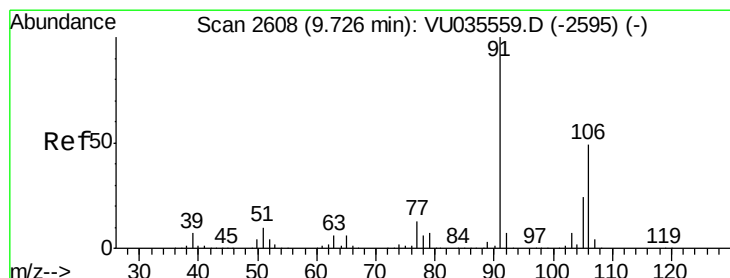
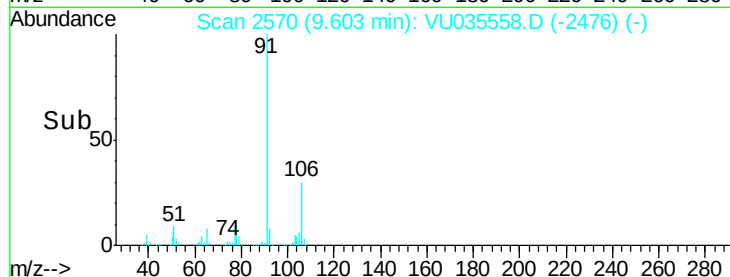
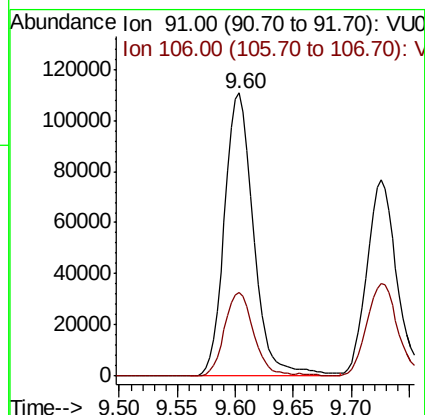
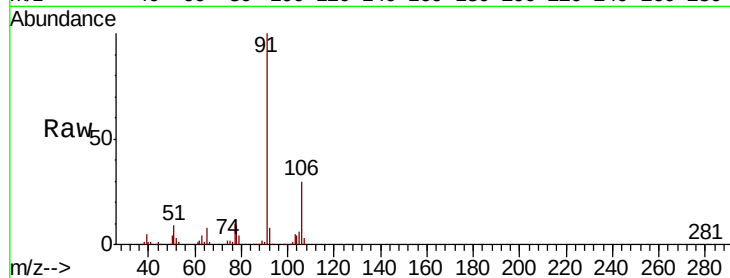
VSTD01031

Tot Ion: 91 Resp: 193351

Ion Ratio Lower Upper

91 100

106 29.6 21.6 40.0



#53

m,p-Xylene

Concen: 8.529 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. -0.00 min

Lab File: VU035558.D

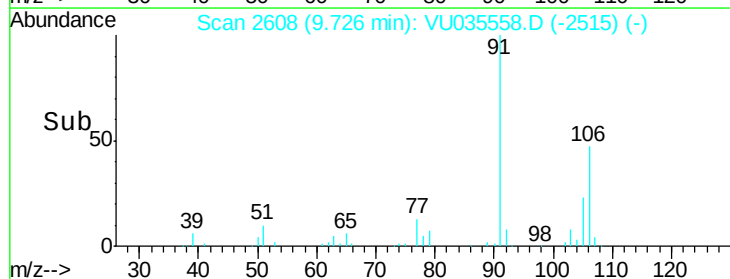
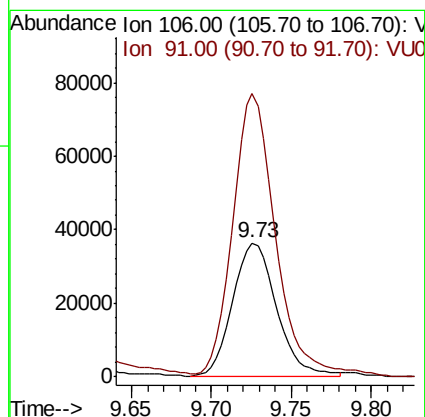
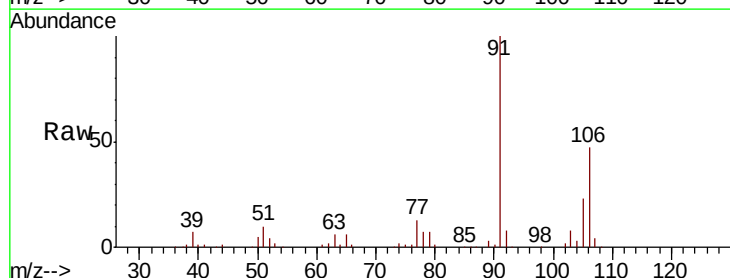
Acq: 30 Oct 2019 13:48

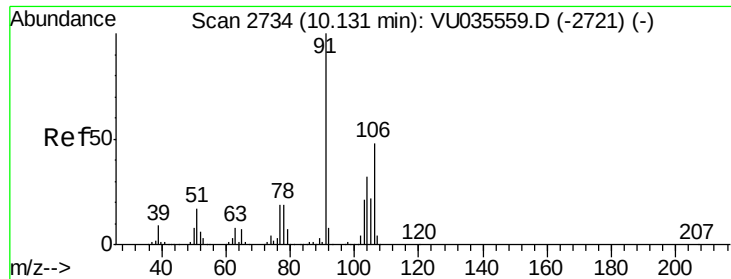
Tgt Ion: 106 Resp: 67362

Ion Ratio Lower Upper

106 100

91 211.5 142.7 264.9

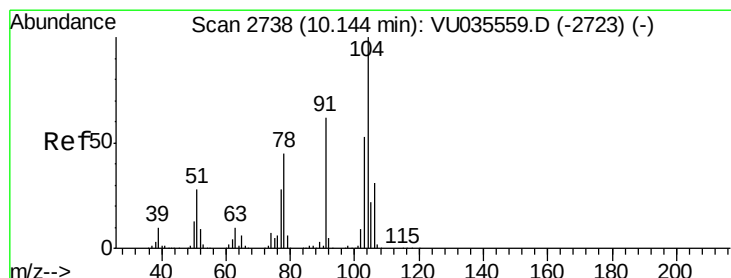
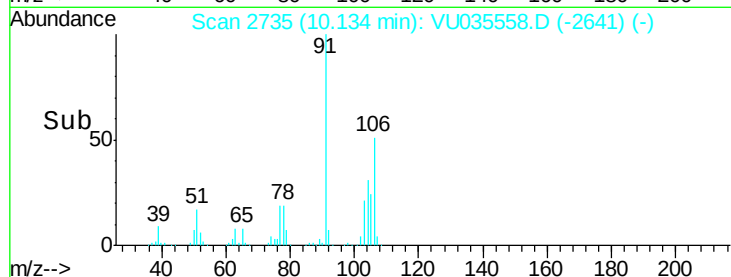
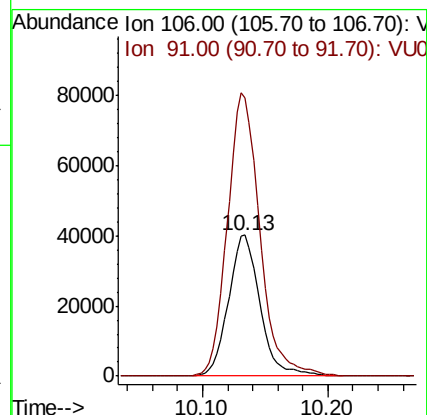
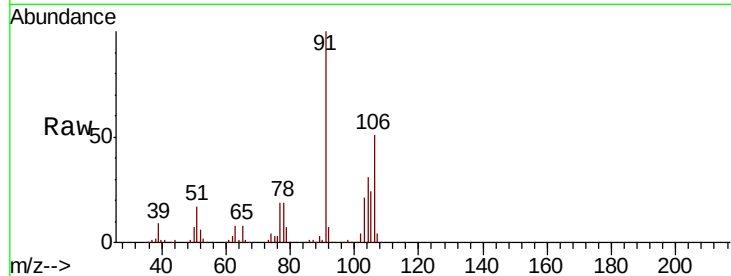




#54
o-xylene
Concen: 9.056 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VU035558.D
Acq: 30 Oct 2019 13:48

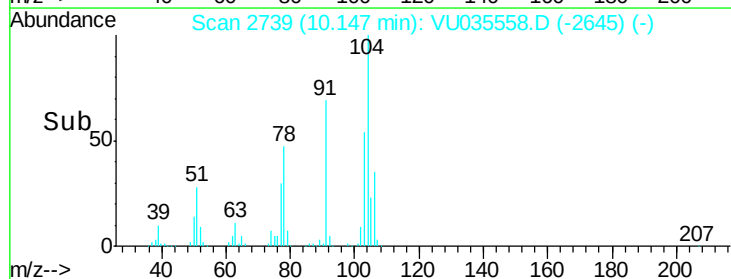
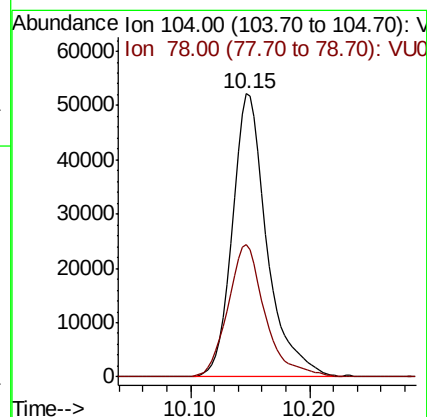
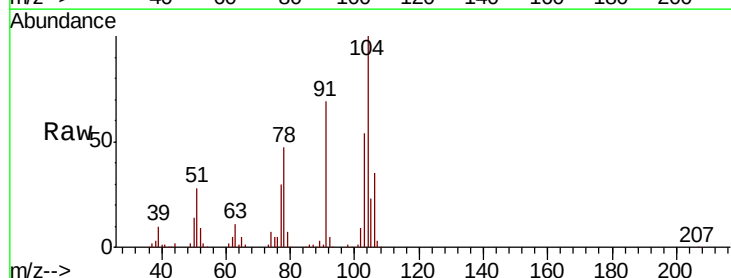
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

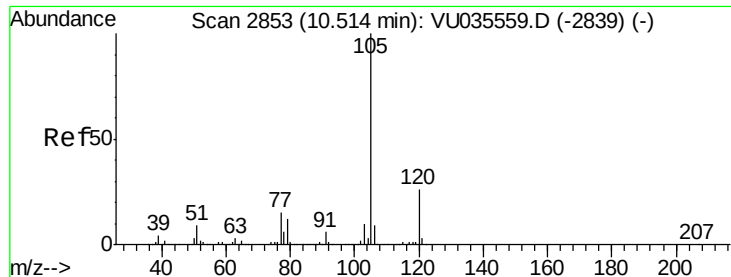
Tot Ion:106 Resp: 70127
Ion Ratio Lower Upper
106 100
91 197.5 147.1 273.1



#55
Styrene
Concen: 8.300 ug/L
RT: 10.15 min Scan# 2739
Delta R.T. 0.00 min
Lab File: VU035558.D
Acq: 30 Oct 2019 13:48

Tgt Ion:104 Resp: 105087
Ion Ratio Lower Upper
104 100
78 46.9 31.4 58.4





#56

Isopropylbenzene

Concen: 8.427 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

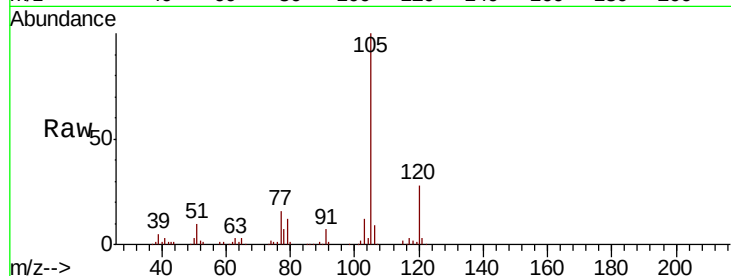
Tot Ion:105 Resp: 164603

Ion Ratio Lower Upper

105 100

120 27.4 21.1 31.7

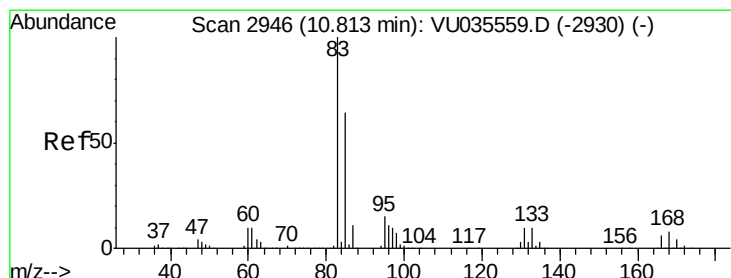
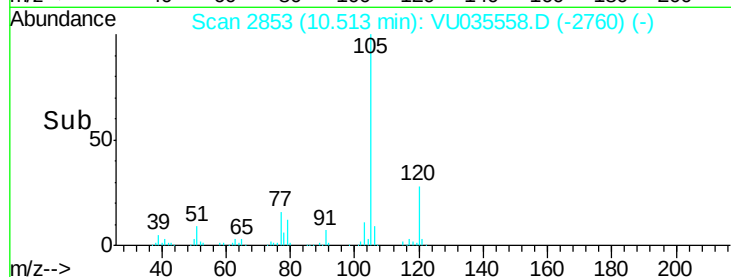
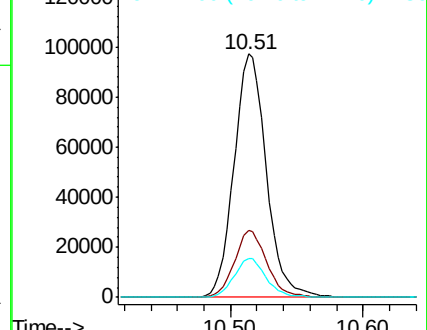
77 16.0 12.2 18.4



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: 9.343 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

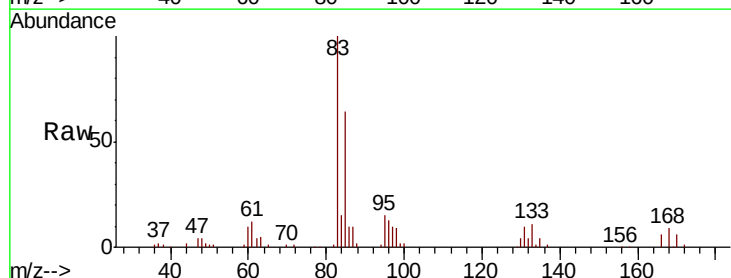
Tgt Ion: 83 Resp: 79870

Ion Ratio Lower Upper

83 100

85 63.8 44.6 82.8

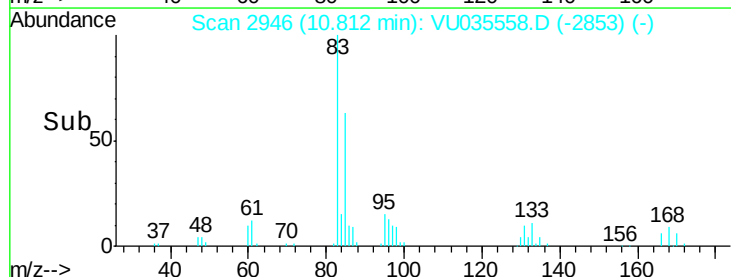
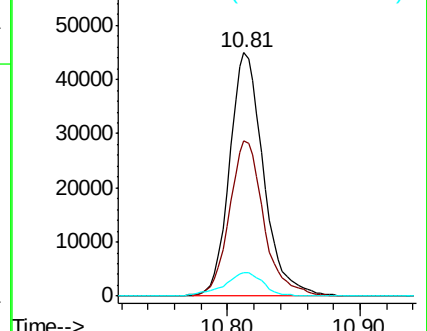
131 9.8 8.2 12.4

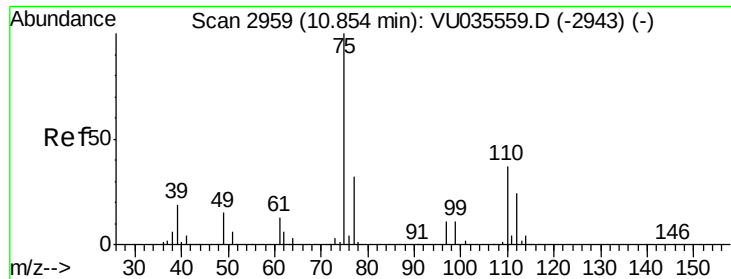


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 9.345 ug/L

RT: 10.85 min Scan# 2959

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

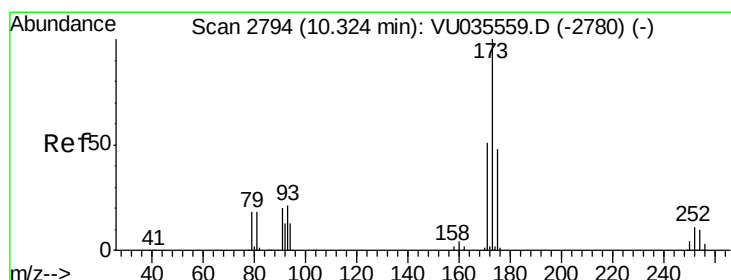
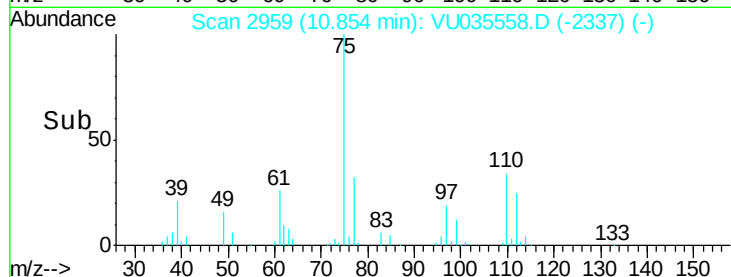
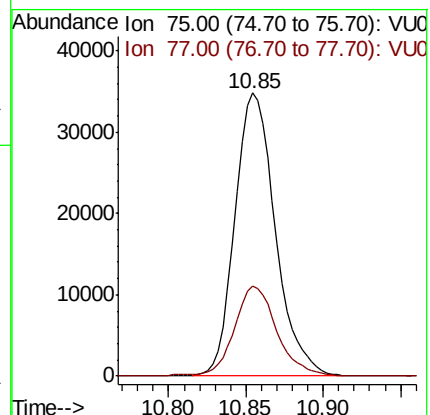
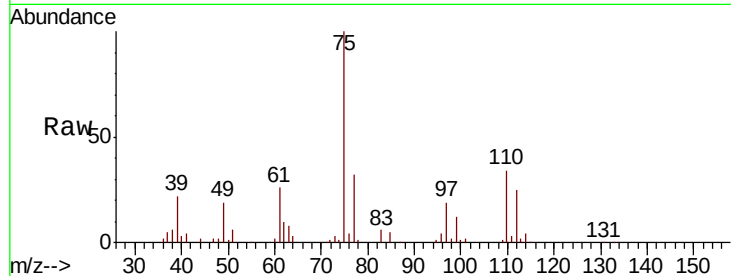
VSTD01031

Tot Ion: 75 Resp: 63180

Ion Ratio Lower Upper

75 100

77 33.3 25.7 38.5



#61

Bromoform

Concen: 11.085 ug/L

RT: 10.32 min Scan# 2794

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

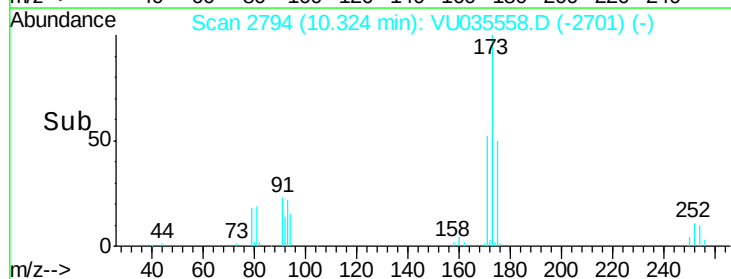
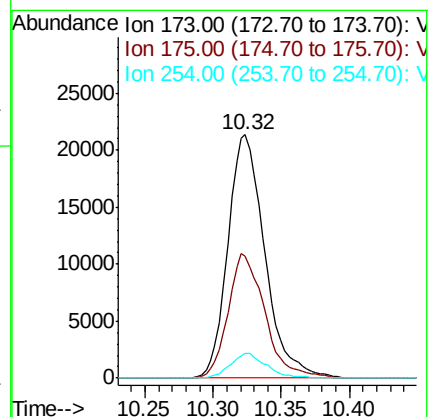
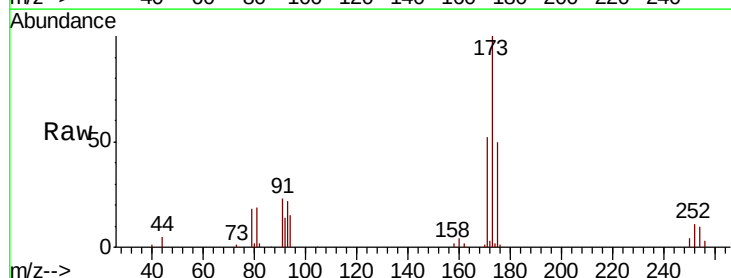
Tgt Ion: 173 Resp: 40182

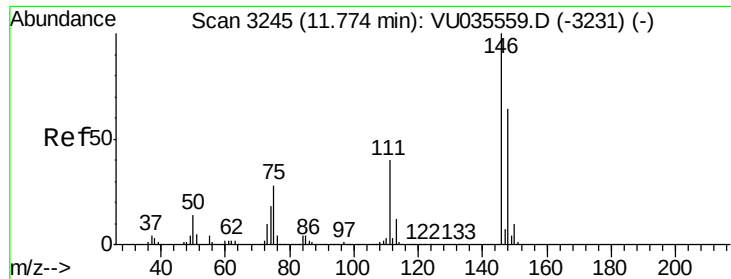
Ion Ratio Lower Upper

173 100

175 50.7 39.4 59.0

254 9.7 8.1 12.1

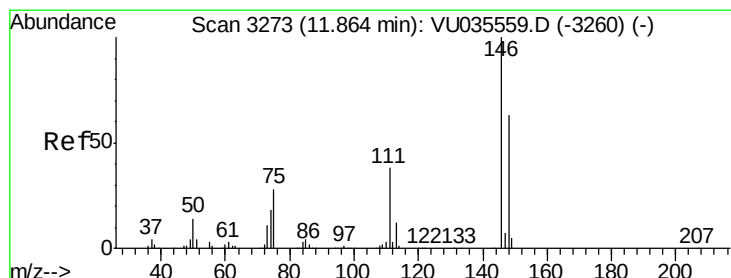
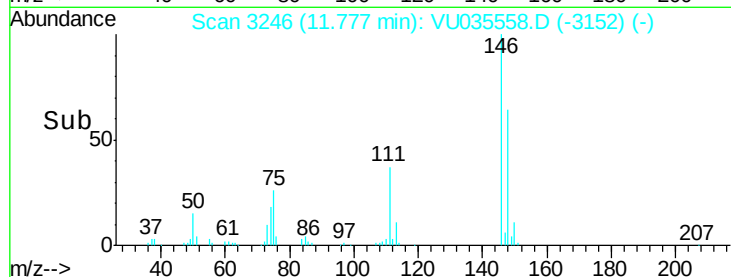
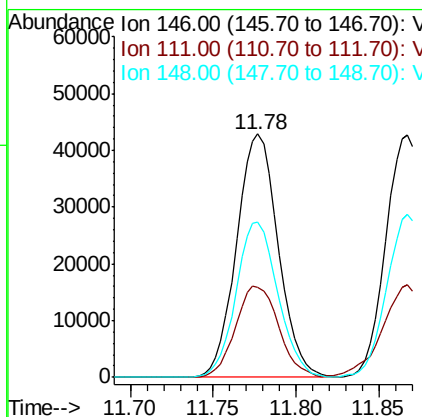
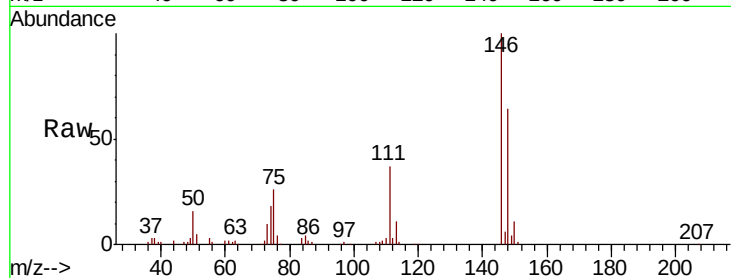




#62
 1,3-Dichlorobenzene
 Concen: 9.846 ug/L
 RT: 11.78 min Scan# 3246
 Delta R.T. 0.00 min
 Lab File: VU035558.D
 Acq: 30 Oct 2019 13:48

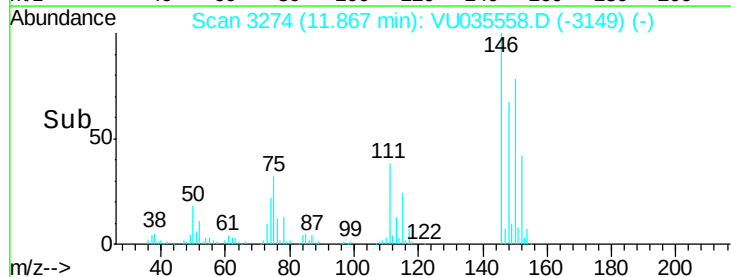
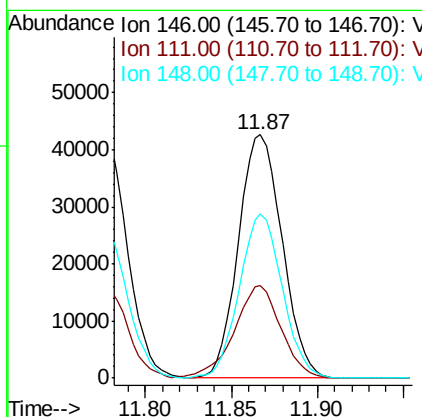
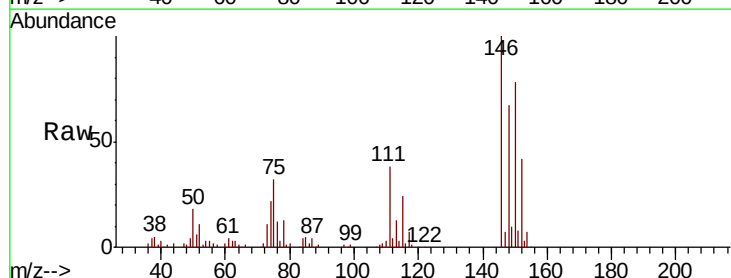
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

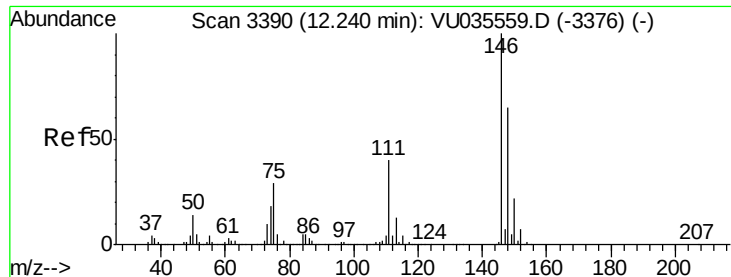
Tot Ion:146 Resp: 74962
 Ion Ratio Lower Upper
 146 100
 111 37.1 27.8 51.6
 148 63.7 44.5 82.7



#63
 1,4-Dichlorobenzene
 Concen: 9.743 ug/L
 RT: 11.87 min Scan# 3274
 Delta R.T. 0.00 min
 Lab File: VU035558.D
 Acq: 30 Oct 2019 13:48

Tgt Ion:146 Resp: 75502
 Ion Ratio Lower Upper
 146 100
 111 38.1 26.5 49.1
 148 67.4 44.4 82.5





#65

1,2-Dichlorobenzene

Concen: 9.666 ug/L

RT: 12.24 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

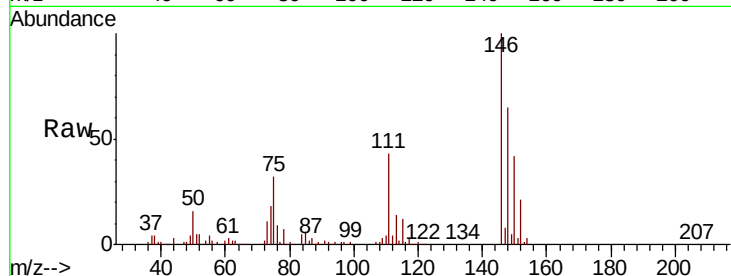
Tot Ion:146 Resp: 74984

Ion Ratio Lower Upper

146 100

111 42.9 32.4 48.6

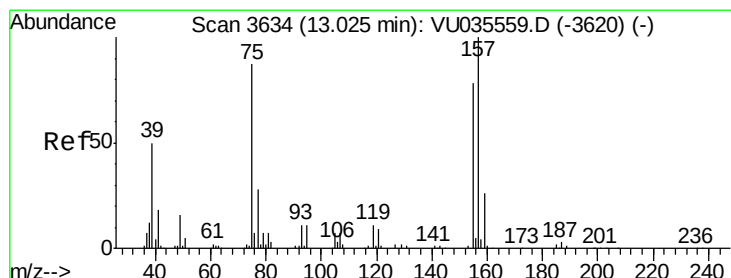
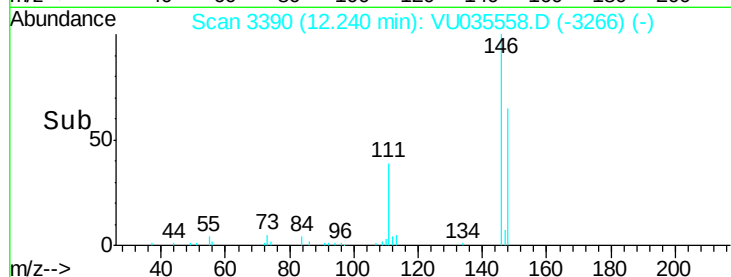
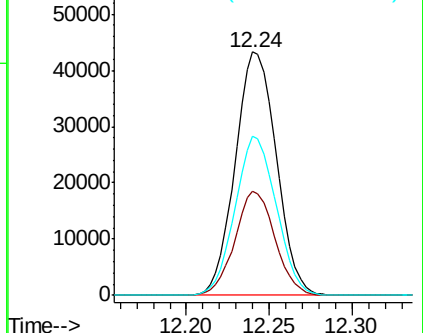
148 65.2 51.8 77.6



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: 9.038 ug/L

RT: 13.02 min Scan# 3634

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

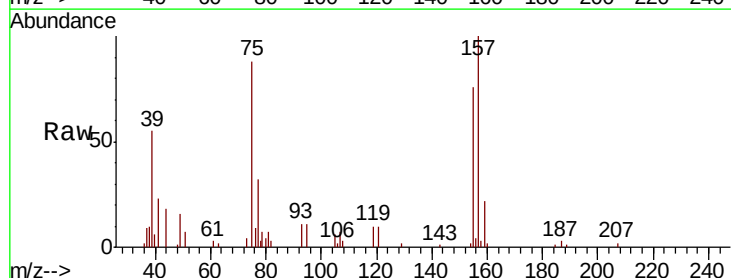
Tgt Ion: 75 Resp: 11454

Ion Ratio Lower Upper

75 100

155 86.7 72.2 108.4

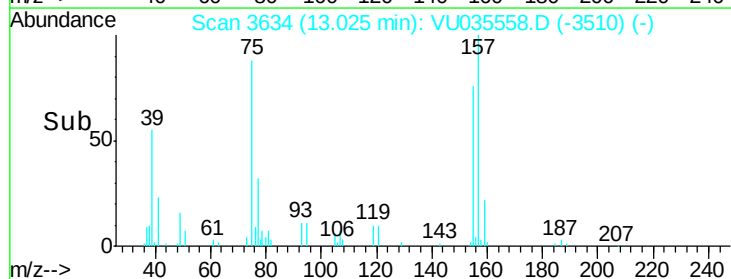
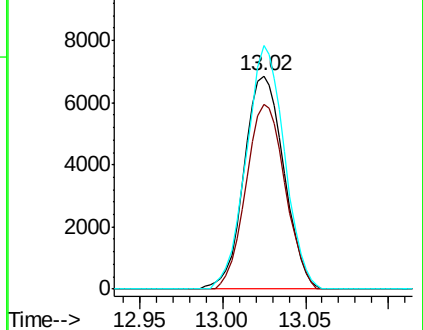
157 114.1 92.1 138.1

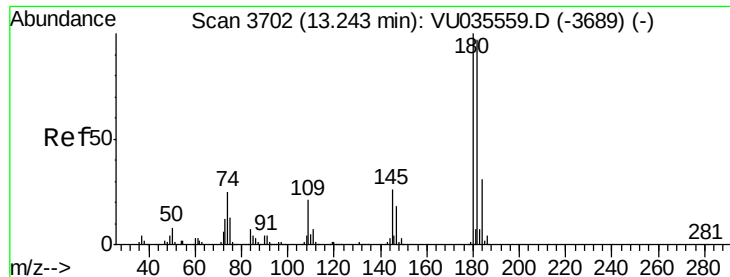


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

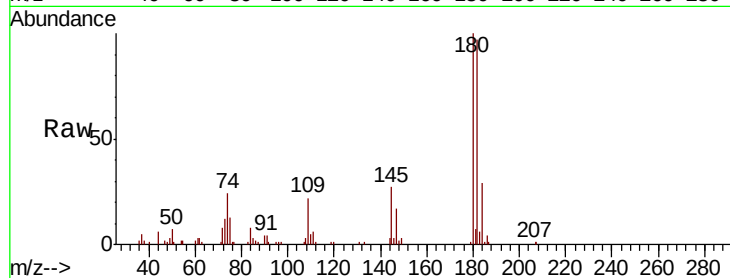




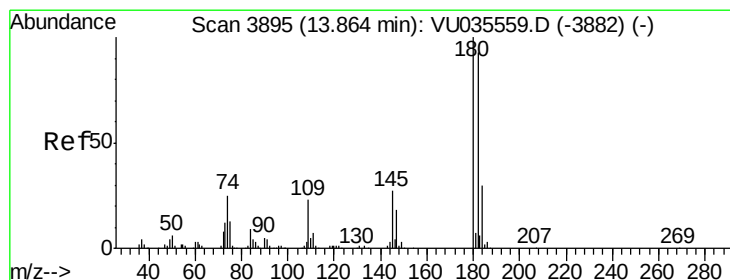
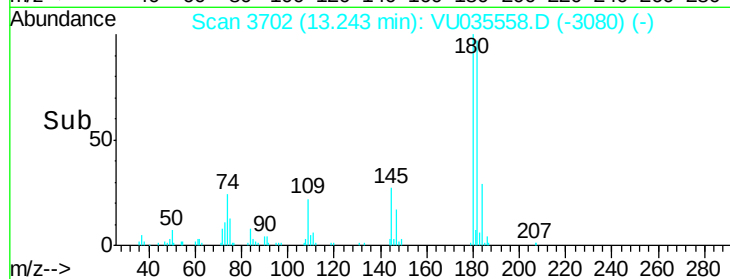
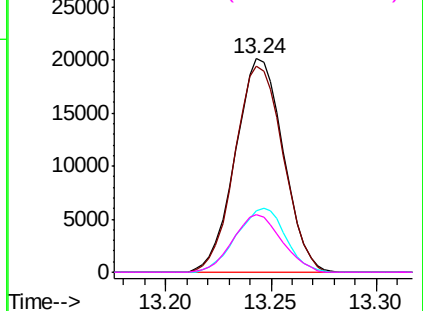
#67
 1,3,5-Trichlorobenzene
 Concen: 7.964 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. -0.00 min
 Lab File: VU035558.D
 Acq: 30 Oct 2019 13:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

Tot Ion:180	Resp:	31886
Ion	Ratio	Lower Upper
180	100	
182	97.3	77.0 115.4
184	30.8	24.6 36.8
145	27.6	21.7 32.5

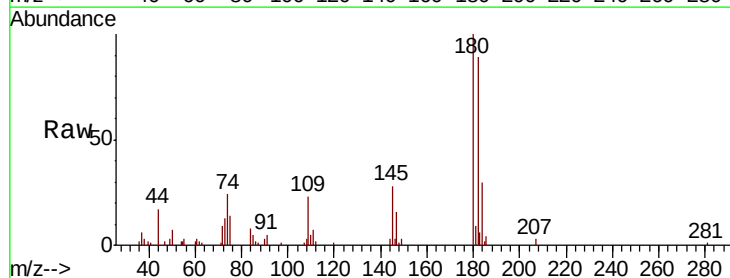


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

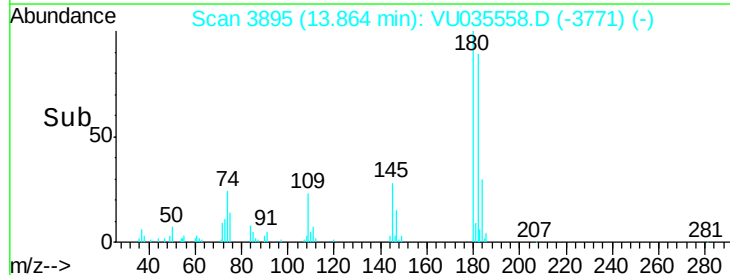
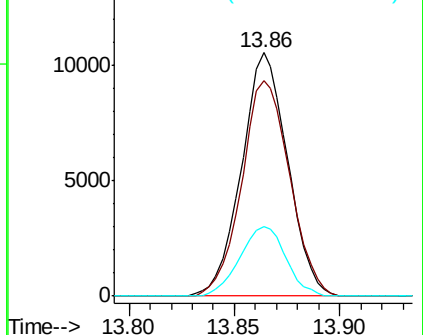


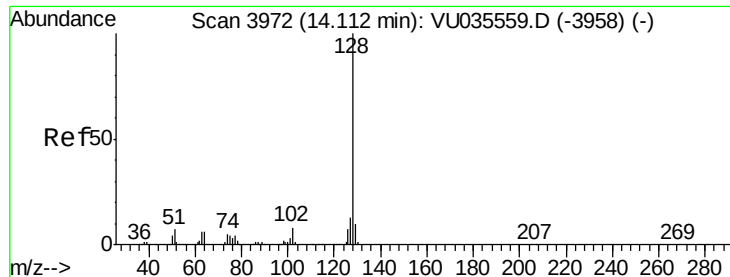
#68
 1,2,4-trichlorobenzene
 Concen: 6.319 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.00 min
 Lab File: VU035558.D
 Acq: 30 Oct 2019 13:48

Tgt Ion:180	Resp:	15985
Ion	Ratio	Lower Upper
180	100	
182	92.0	76.6 115.0
145	28.4	21.9 32.9



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





#69

Naphthalene

Concen: 5.468 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

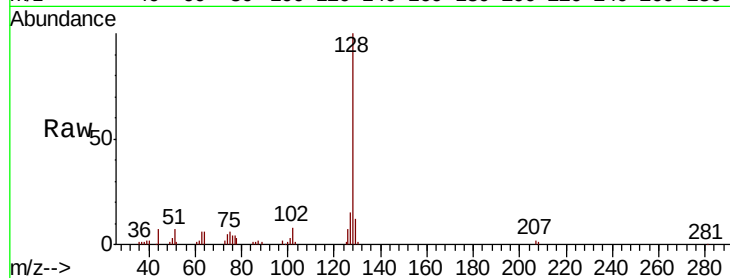
Tot Ion:128 Resp: 37522

Ion Ratio Lower Upper

128 100

127 13.8 10.7 16.1

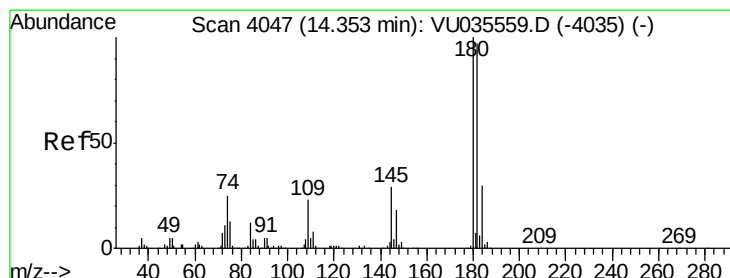
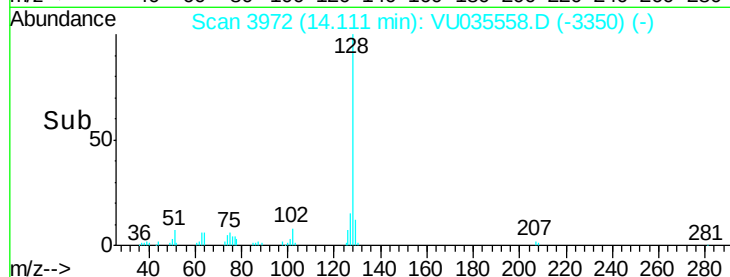
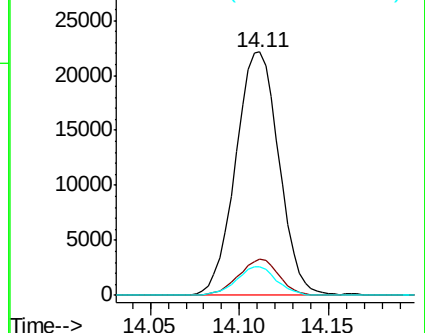
129 10.9 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 6.866 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. -0.00 min

Lab File: VU035558.D

Acq: 30 Oct 2019 13:48

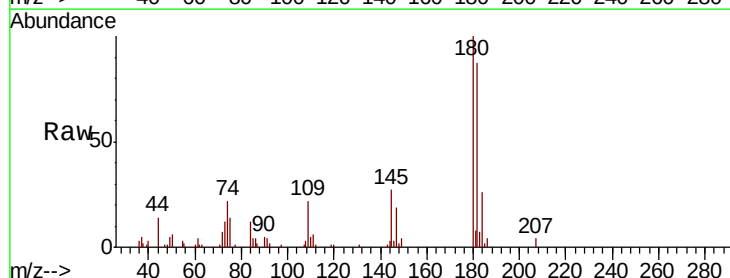
Tgt Ion:180 Resp: 18019

Ion Ratio Lower Upper

180 100

182 89.3 77.6 116.4

145 28.3 23.4 35.0



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

