

Data File : VU035563.D
Acq On : 30 Oct 2019 15:39
Operator : JC/SP
Sample : VSTD01031
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

Quant Time: Oct 30 23:53:05 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	684743	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	666261	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	250577	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	52464	9.62	ug/L	0.00
7) Chloroethane-d5	1.93	69	42595	9.49	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.60	63	85600	9.58	ug/L	0.00
21) 2-Butanone-d5	4.70	46	65006	18.59	ug/L	0.00
24) Chloroform-d	5.12	84	84618	9.55	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	51762	9.30	ug/L	0.00
32) Benzene-d6	5.78	84	171096	9.66	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.74	67	54474	9.42	ug/L	0.00
41) Toluene-d8	7.93	98	159233	9.75	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.22	79	24906	9.23	ug/L	0.00
47) 2-Hexanone-d5	8.69	63	38963	18.20	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.79	84	80698	9.93	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	55568	11.31	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.40	85	54530	9.451 ug/L	99
3) Chloromethane	1.54	50	59969	9.653 ug/L	100
5) Vinyl chloride	1.62	62	63859	9.551 ug/L	96
6) Bromomethane	1.88	94	34708	11.223 ug/L	96
8) Chloroethane	1.96	64	37679	9.601 ug/L	99
9) Trichlorofluoromethane	2.16	101	76681	9.927 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	45160	9.998 ug/L	100
12) 1,1-Dichloroethene	2.61	96	43737	10.173 ug/L	93
13) Acetone	2.67	43	58820	17.363 ug/L	98
14) Carbon disulfide	2.83	76	134640	9.788 ug/L	100
15) Methyl Acetate	3.00	43	55289	9.747 ug/L	100
16) Methylene chloride	3.09	84	54016	10.175 ug/L	98
17) trans-1,2-Dichloroethene	3.40	96	45339	9.965 ug/L	95
18) Methyl tert-butyl Ether	3.43	73	136188	9.613 ug/L	99
19) 1,1-Dichloroethane	3.93	63	88088	9.516 ug/L	98
20) cis-1,2-Dichloroethene	4.72	96	52074	10.155 ug/L	94
22) 2-Butanone	4.78	43	77581	18.145 ug/L	98
23) Bromochloromethane	5.03	128	28148	10.691 ug/L	94
25) Chloroform	5.14	83	89193	9.703 ug/L	99
27) 1,2-Dichloroethane	5.84	62	65640	9.381 ug/L	99
29) Cyclohexane	5.44	56	67828	9.201 ug/L	99
30) 1,1,1-Trichloroethane	5.37	97	73621	10.119 ug/L	99
31) Carbon tetrachloride	5.57	117	65684	10.226 ug/L	97
33) Benzene	5.82	78	192668	9.782 ug/L	100
34) Trichloroethene	6.58	95	49866	10.230 ug/L	98
35) Methylcyclohexane	6.80	83	67867	9.887 ug/L	99
37) 1,2-Dichloropropane	6.83	63	52546	9.732 ug/L	# 96
38) Bromodichloromethane	7.15	83	66106	9.885 ug/L	99
39) cis-1,3-Dichloropropene	7.65	75	72249	9.079 ug/L	99
40) 4-Methyl-2-pentanone	7.84	43	135032	18.545 ug/L	100

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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.01	91	201191	9.845	ug/L	98
44) trans-1,3-Dichloropropene	8.25	75	68579	9.459	ug/L	98
45) 1,1,2-Trichloroethane	8.44	97	50392	10.178	ug/L	97
46) Tetrachloroethene	8.59	164	42488	10.999	ug/L	95
48) 2-Hexanone	8.74	43	123375	21.087	ug/L	92
49) Dibromochloromethane	8.84	129	55810	10.398	ug/L	94
50) 1,2-Dibromoethane	8.96	107	53828	10.314	ug/L	97
51) Chlorobenzene	9.48	112	135130	10.165	ug/L	99
52) Ethylbenzene	9.60	91	207640	9.566	ug/L	99
53) m,p-Xylene	9.73	106	76605	9.510	ug/L	98
54) o-xylene	10.13	106	74511	9.435	ug/L	99
55) Styrene	10.15	104	118820	9.202	ug/L	98
56) Isopropylbenzene	10.51	105	182948	9.184	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.82	83	84737	9.720	ug/L	99
59) 1,2,3-Trichloropropane	10.86	75	67265	9.756	ug/L	98
61) Bromoform	10.32	173	42722	11.312	ug/L	100
62) 1,3-Dichlorobenzene	11.78	146	83652	10.546	ug/L	97
63) 1,4-Dichlorobenzene	11.87	146	85258	10.560	ug/L	99
65) 1,2-Dichlorobenzene	12.24	146	85248	10.548	ug/L	96
66) 1,2-Dibromo-3-chloropropan	13.02	75	13435	10.175	ug/L	99
67) 1,3,5-Trichlorobenzene	13.24	180	41344	9.912	ug/L	97
68) 1,2,4-trichlorobenzene	13.86	180	25425	9.647	ug/L	99
69) Naphthalene	14.11	128	68228	9.544	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	30221	11.052	ug/L	96

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

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ALS Vial      : 9      Sample Multiplier: 1
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Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

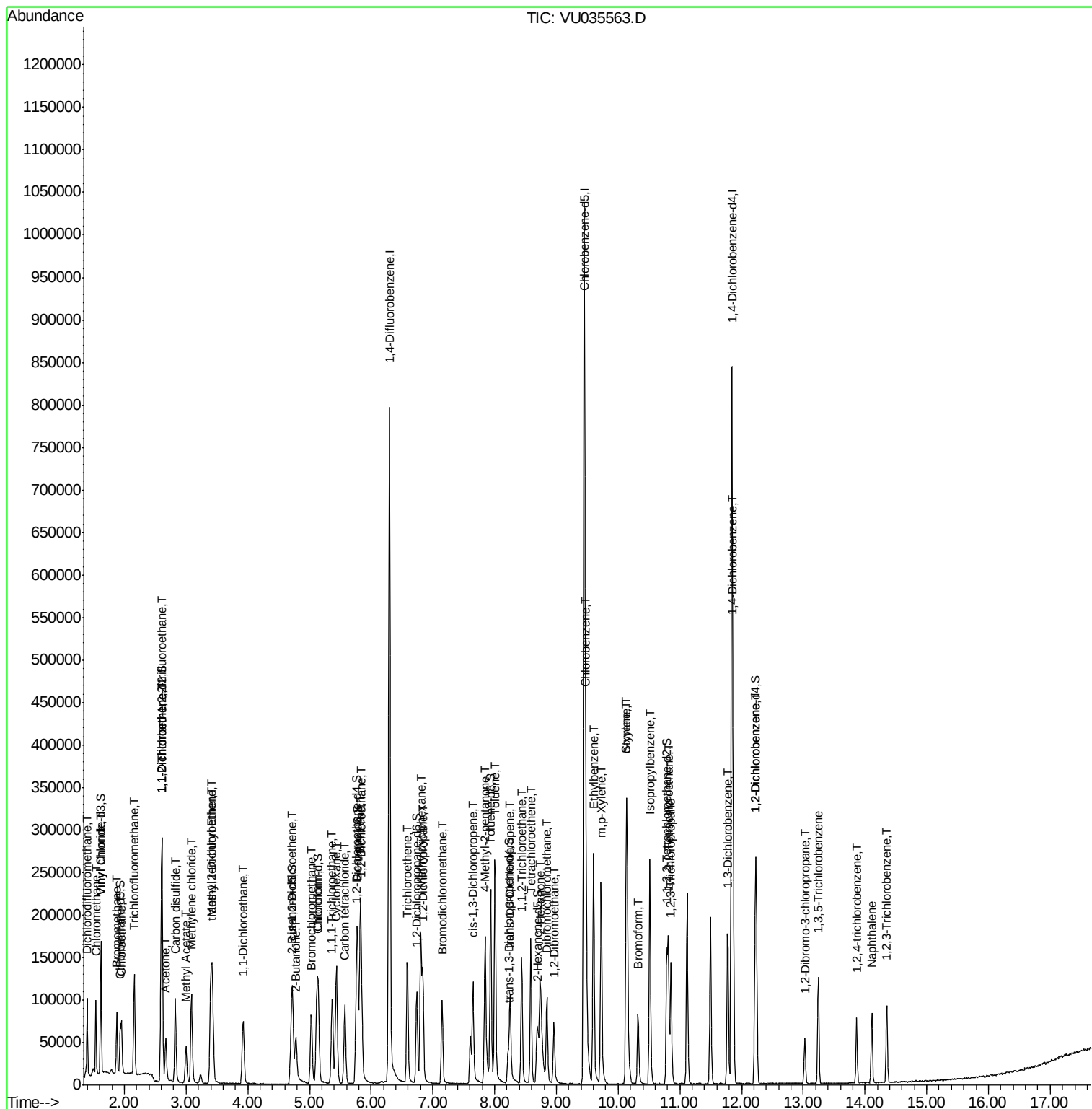
Quant Time: Oct 30 23:53:05 2019

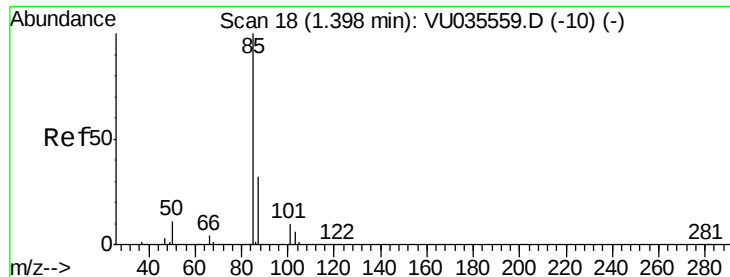
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMULM103119WMA.M

Quant Title : VOC Analysis

QLast Update : Wed Oct 30 23:48:26 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 9.451 ug/L

RT: 1.40 min Scan# 18

Delta R.T. -0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

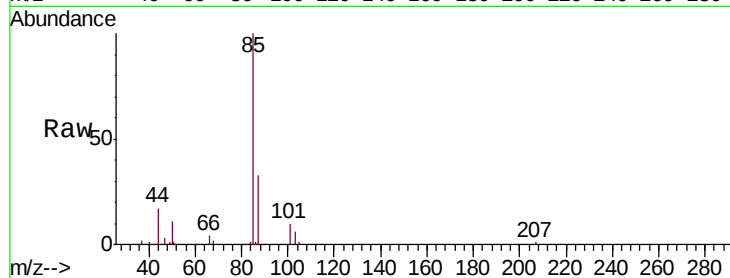
VSTD01031

Tgt Ion: 85 Resp: 54530

Ion Ratio Lower Upper

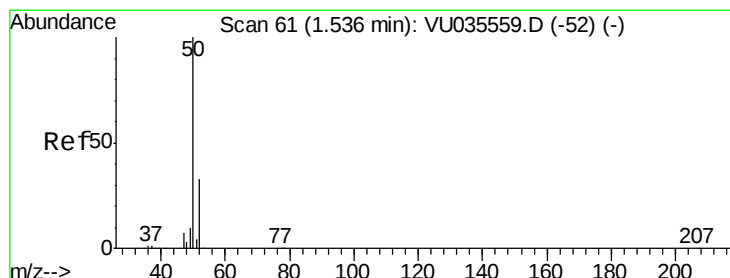
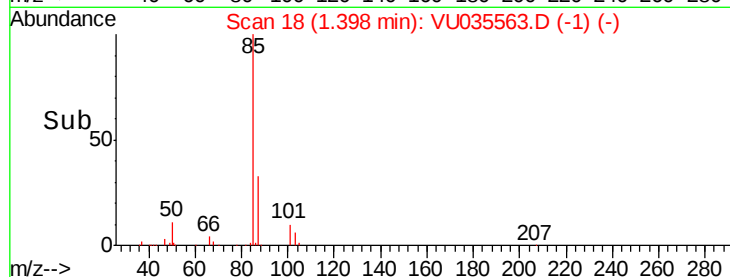
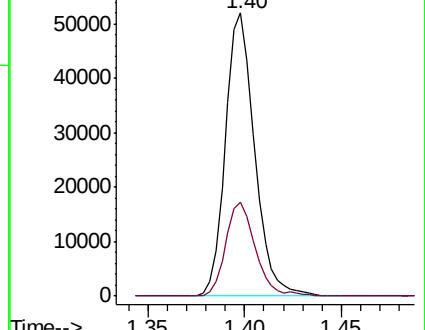
85 100

87 32.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU035559.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU035559.D (-10) (-)



#3

Chloromethane

Concen: 9.653 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU035563.D

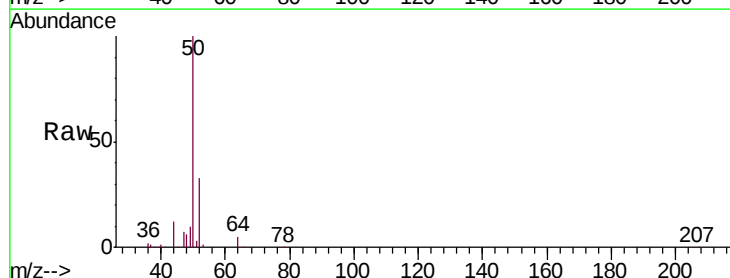
Acq: 30 Oct 2019 15:39

Tgt Ion: 50 Resp: 59969

Ion Ratio Lower Upper

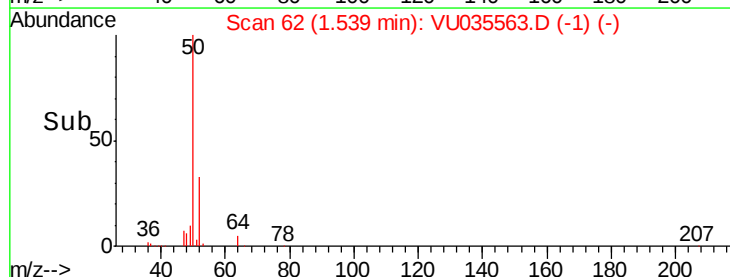
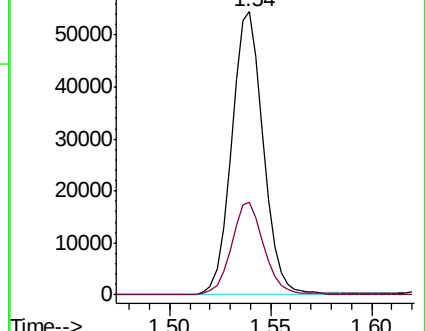
50 100

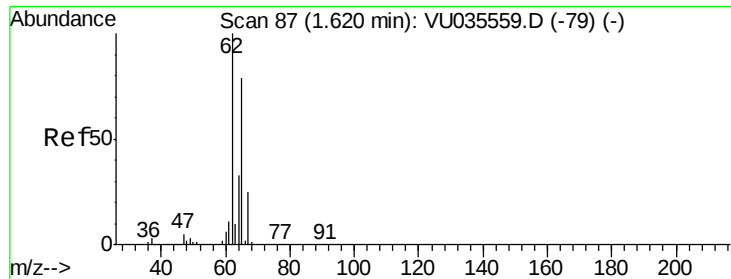
52 32.6 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU035559.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU035559.D (-52) (-)





#5

Vinyl chloride

Concen: 9.551 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

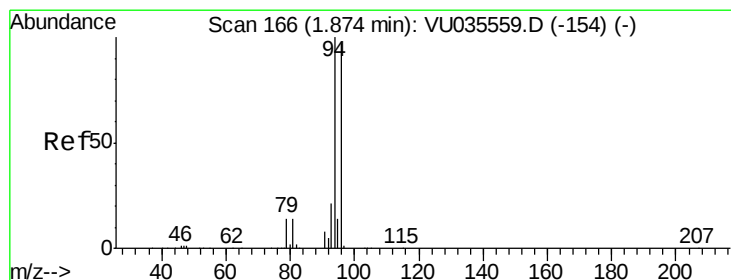
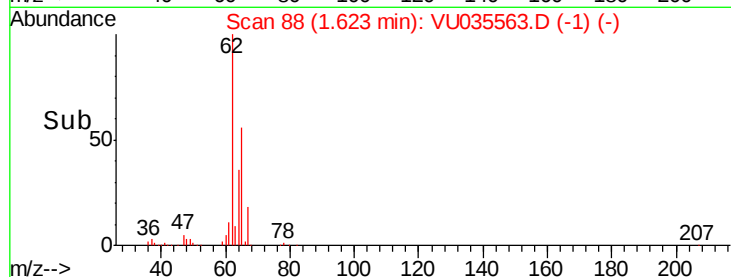
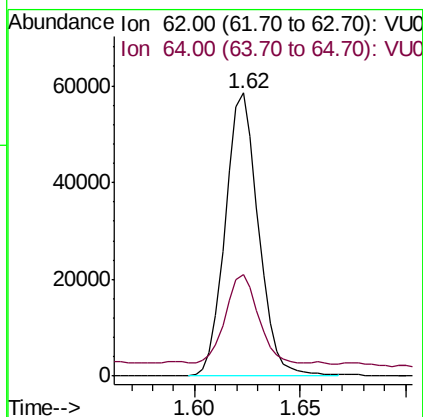
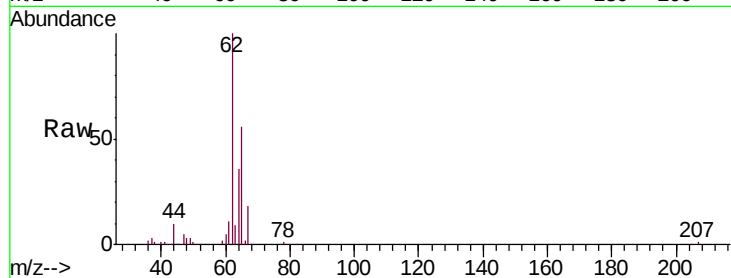
VSTD01031

Tgt Ion: 62 Resp: 63859

Ion Ratio Lower Upper

62 100

64 36.0 23.7 43.9



#6

Bromomethane

Concen: 11.223 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU035563.D

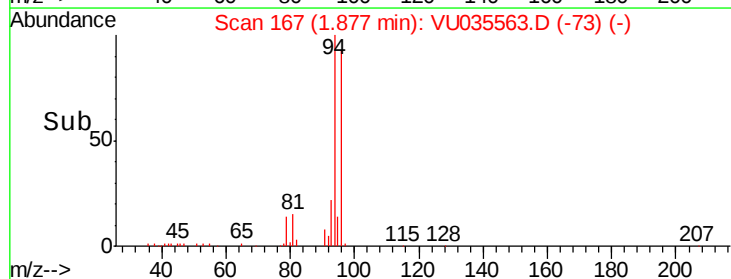
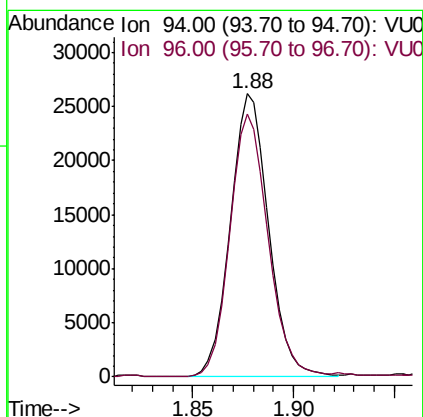
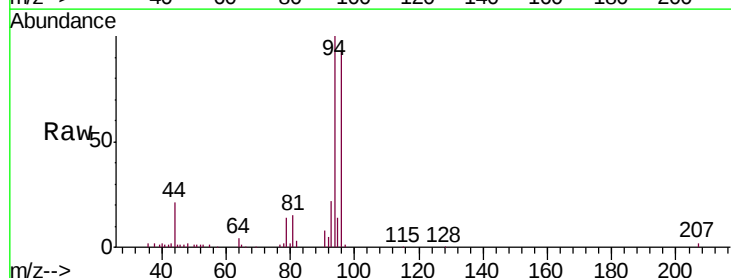
Acq: 30 Oct 2019 15:39

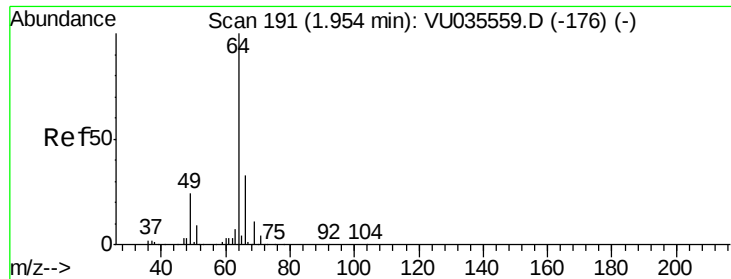
Tgt Ion: 94 Resp: 34708

Ion Ratio Lower Upper

94 100

96 92.7 67.5 125.4





#8

Chloroethane

Concen: 9.601 ug/L

RT: 1.96 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

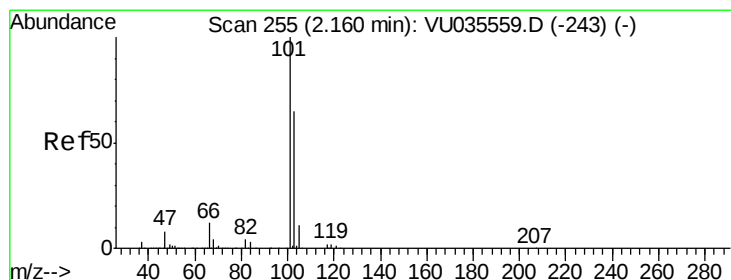
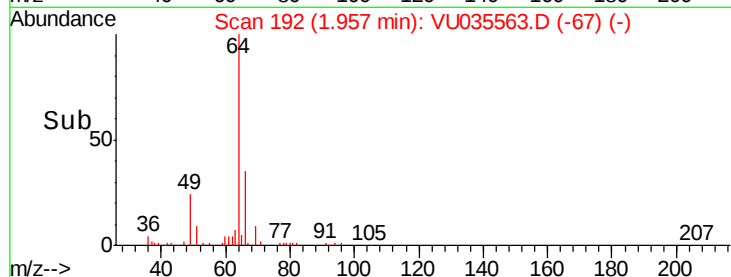
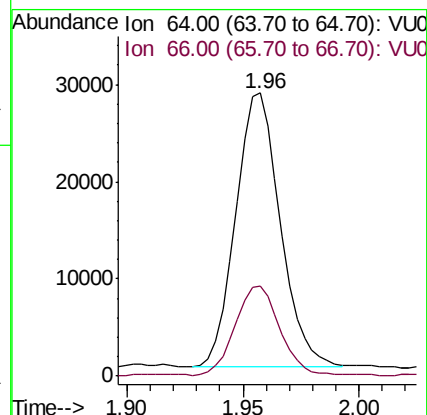
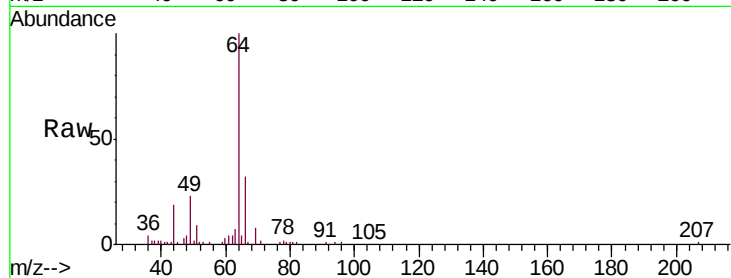
VSTD01031

Tgt Ion: 64 Resp: 37679

Ion Ratio Lower Upper

64 100

66 31.9 22.8 42.4



#9

Trichlorofluoromethane

Concen: 9.927 ug/L

RT: 2.16 min Scan# 256

Delta R.T. 0.00 min

Lab File: VU035563.D

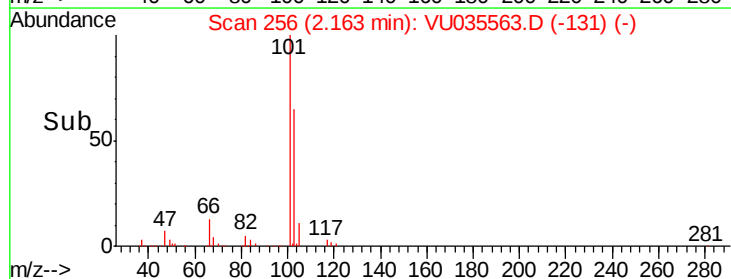
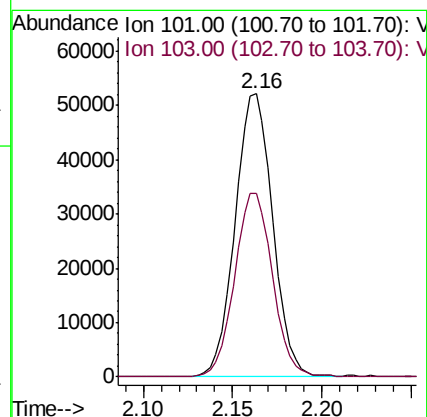
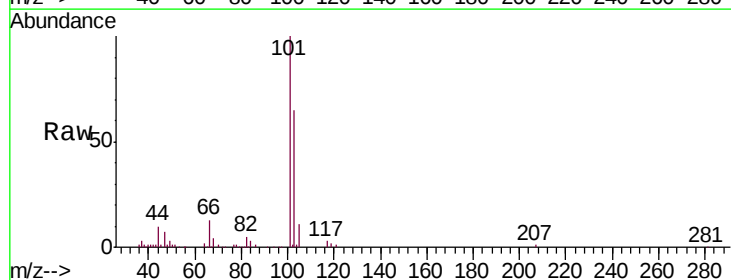
Acq: 30 Oct 2019 15:39

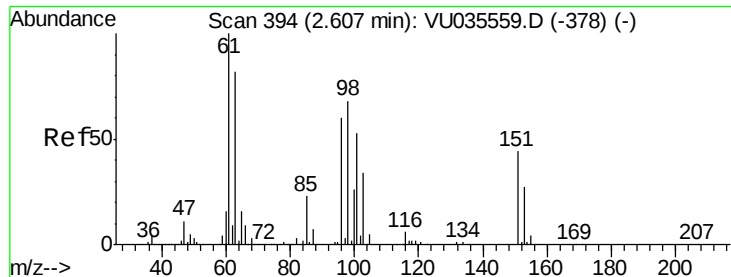
Tgt Ion: 101 Resp: 76681

Ion Ratio Lower Upper

101 100

103 65.5 51.8 77.6





#10

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

Concen: 9.998 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

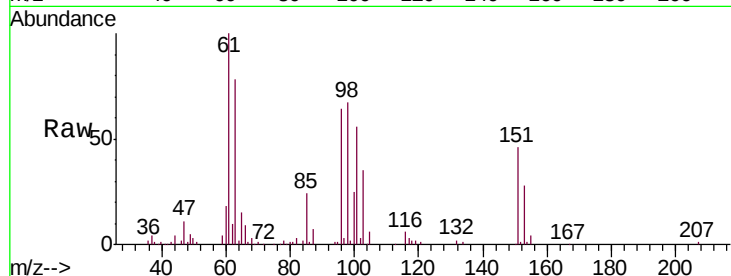
Tgt Ion: 101 Resp: 45160

Ion Ratio Lower Upper

101 100

85 42.0 34.0 51.0

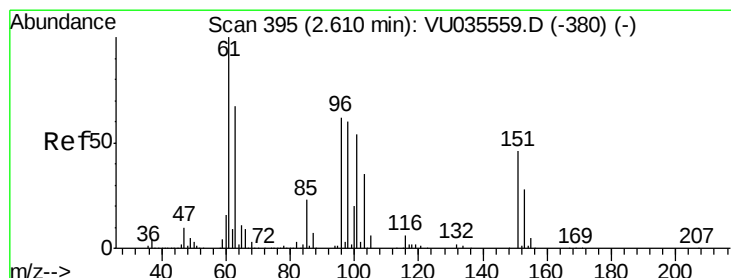
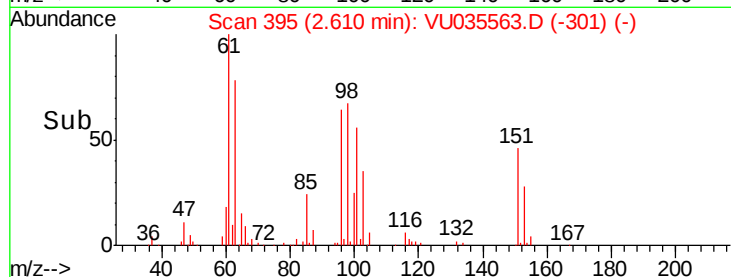
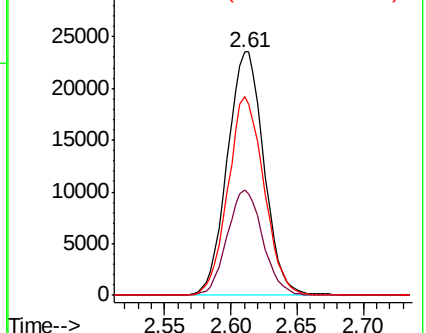
151 80.2 64.2 96.4



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: 10.173 ug/L

RT: 2.61 min Scan# 395

Delta R.T. -0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

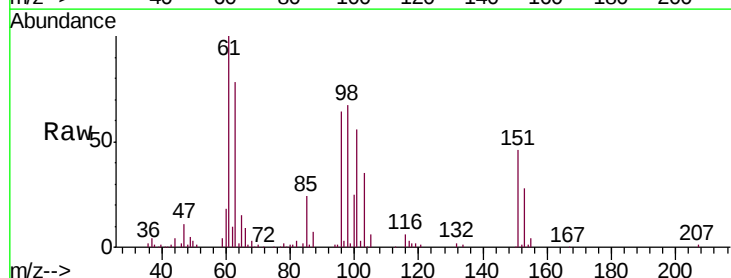
Tgt Ion: 96 Resp: 43737

Ion Ratio Lower Upper

96 100

61 155.4 113.1 210.1

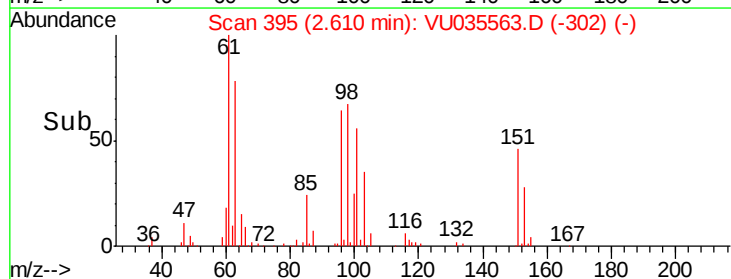
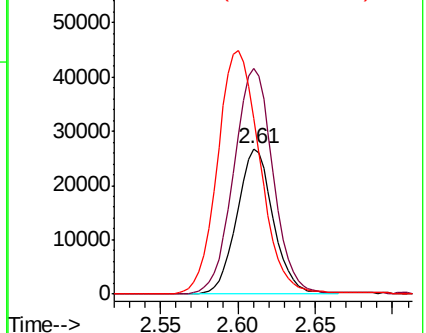
63 121.0 76.2 141.4

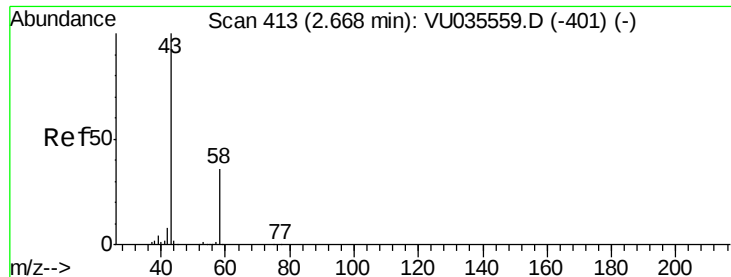


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 17.363 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.00 min

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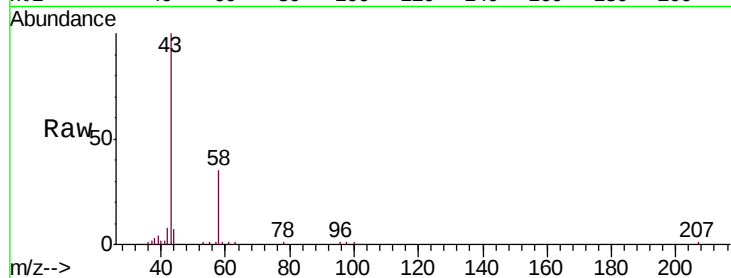
VSTD01031

Tgt Ion: 43 Resp: 58820

Ion Ratio Lower Upper

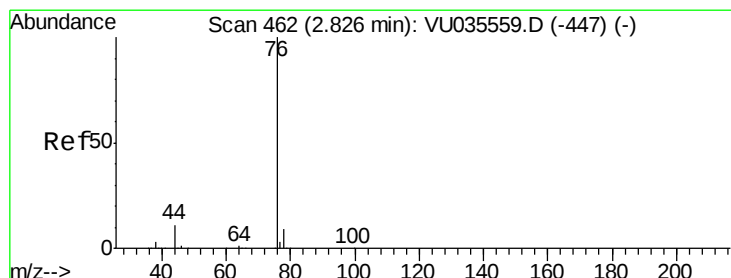
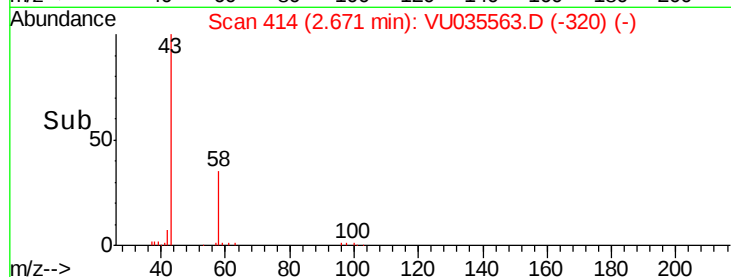
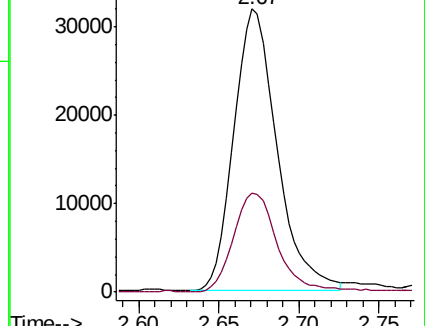
43 100

58 36.0 0.0 70.0



Abundance Ion 43.00 (42.70 to 43.70): VU035559.D (-401) (-)

Ion 58.00 (57.70 to 58.70): VU035559.D (-401) (-)



#14

Carbon disulfide

Concen: 9.788 ug/L

RT: 2.83 min Scan# 462

Delta R.T. -0.00 min

Lab File: VU035563.D

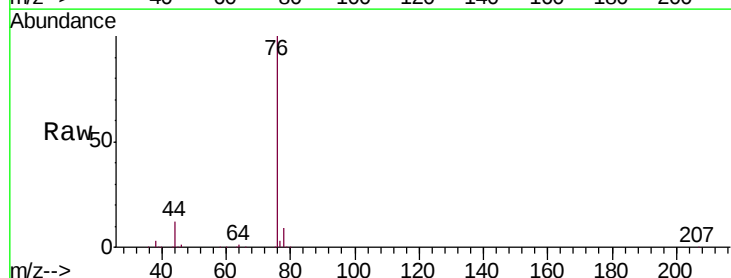
Acq: 30 Oct 2019 15:39

Tgt Ion: 76 Resp: 134640

Ion Ratio Lower Upper

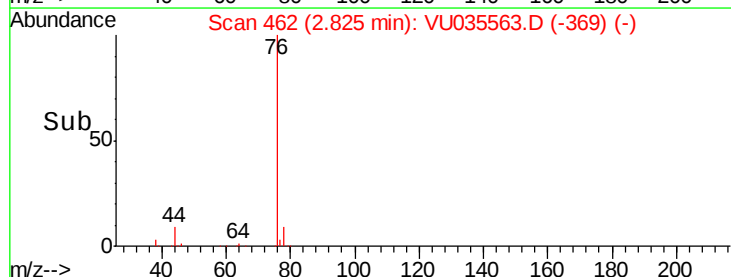
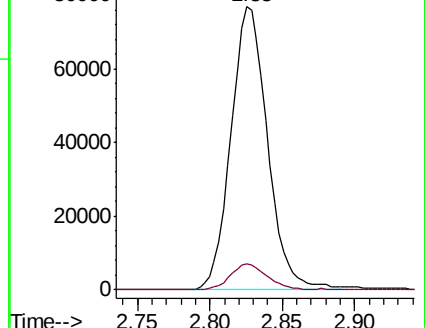
76 100

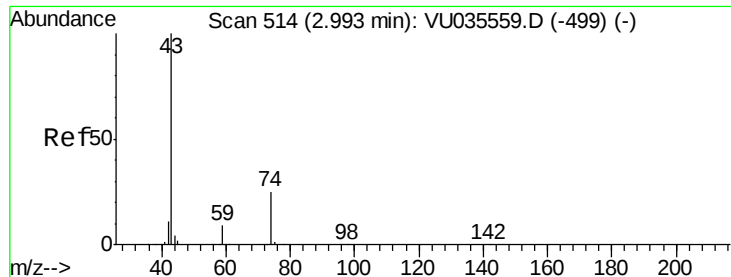
78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU035559.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU035559.D (-447) (-)

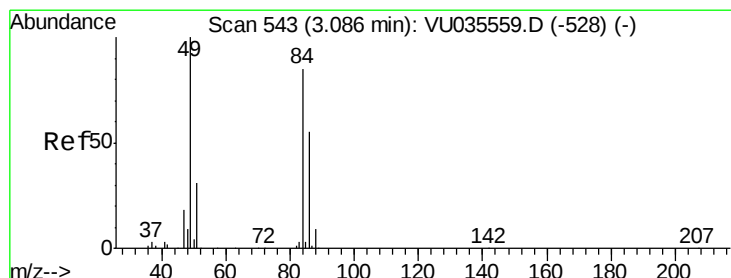
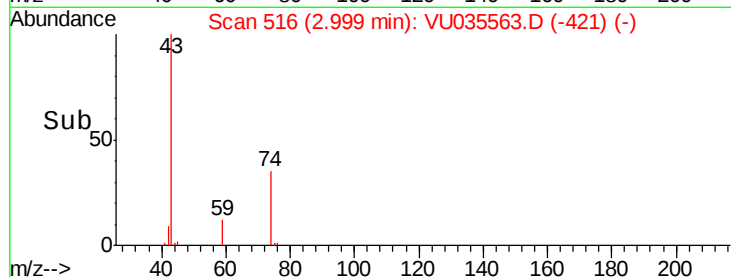
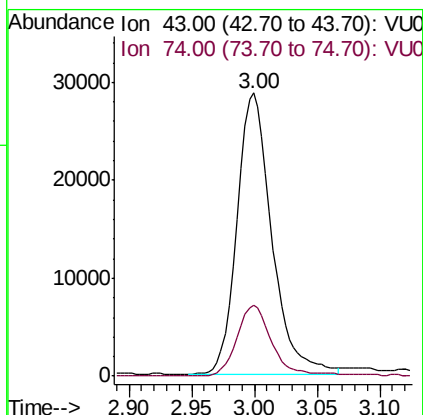
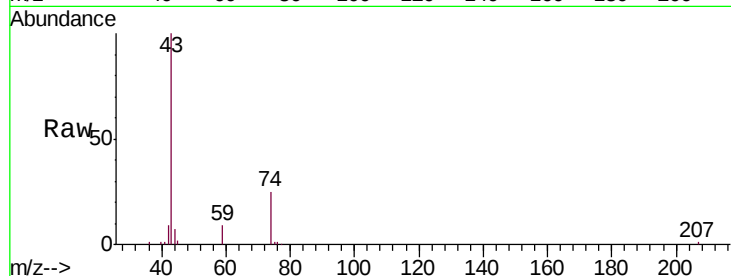




#15
Methyl Acetate
Concen: 9.747 ug/L
RT: 3.00 min Scan# 516
Delta R.T. 0.01 min
Lab File: VU035563.D
Acq: 30 Oct 2019 15:39

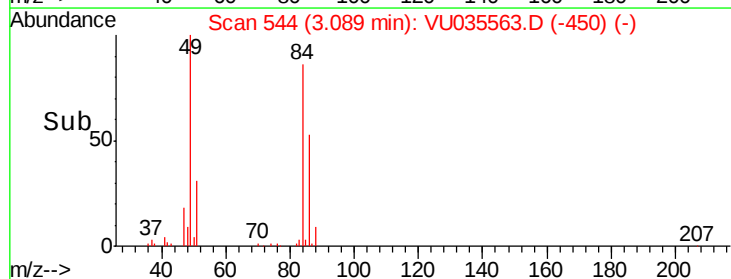
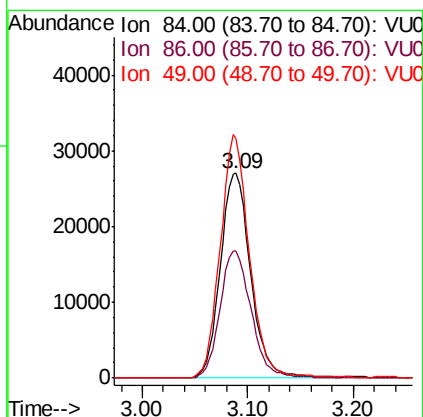
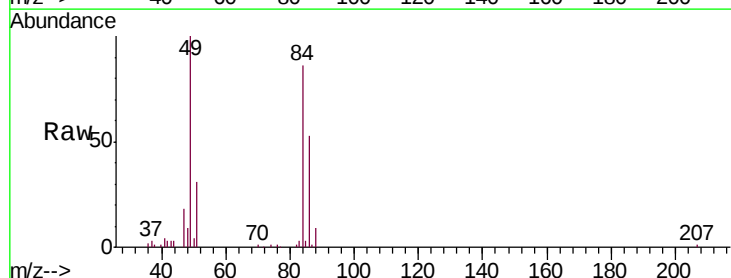
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

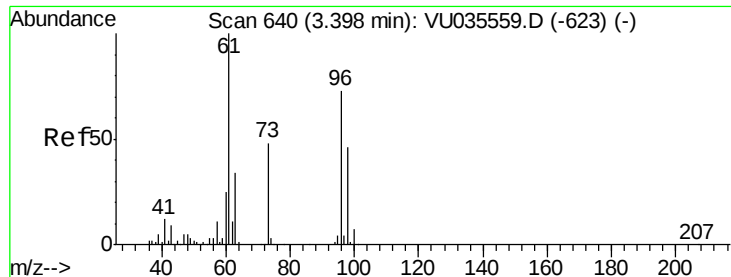
Tgt Ion: 43 Resp: 55289
Ion Ratio Lower Upper
43 100
74 24.9 19.8 29.6



#16
Methylene chloride
Concen: 10.175 ug/L
RT: 3.09 min Scan# 544
Delta R.T. 0.00 min
Lab File: VU035563.D
Acq: 30 Oct 2019 15:39

Tgt Ion: 84 Resp: 54016
Ion Ratio Lower Upper
84 100
86 61.8 45.1 83.7
49 116.8 82.7 153.5





#17

trans-1,2-Dichloroethene

Concen: 9.965 ug/L

RT: 3.40 min Scan# 640

Delta R.T. -0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampled :

VSTD01031

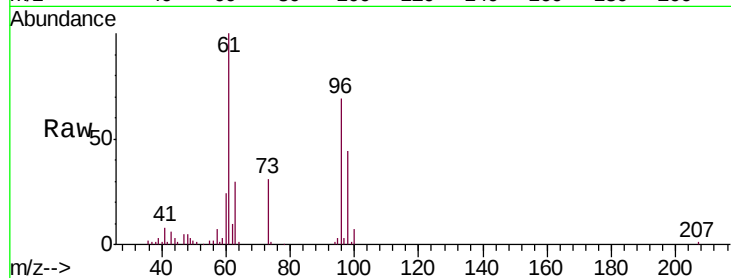
Tgt Ion: 96 Resp: 45339

Ion Ratio Lower Upper

96 100

61 144.7 95.3 176.9

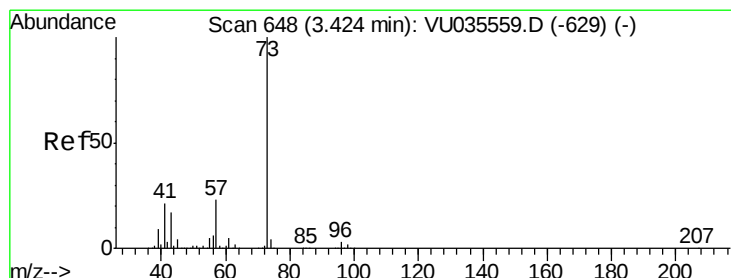
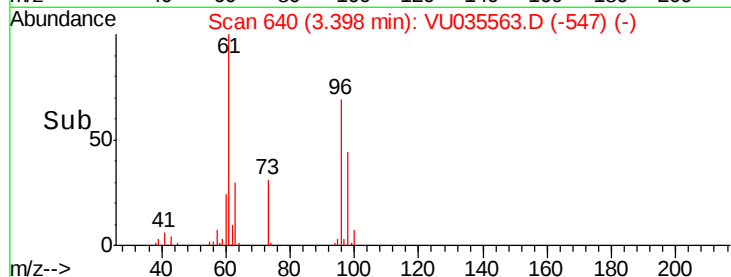
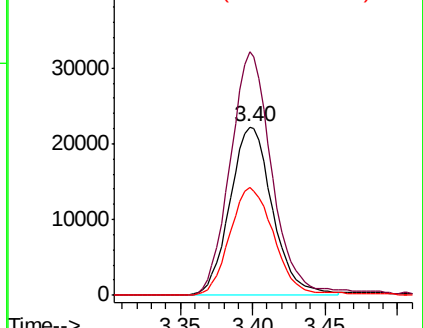
98 63.8 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU035559.D (-623) (-)

Ion 61.00 (60.70 to 61.70): VU035559.D (-623) (-)

Ion 98.00 (97.70 to 98.70): VU035559.D (-623) (-)



#18

Methyl tert-butyl Ether

Concen: 9.613 ug/L

RT: 3.43 min Scan# 649

Delta R.T. 0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

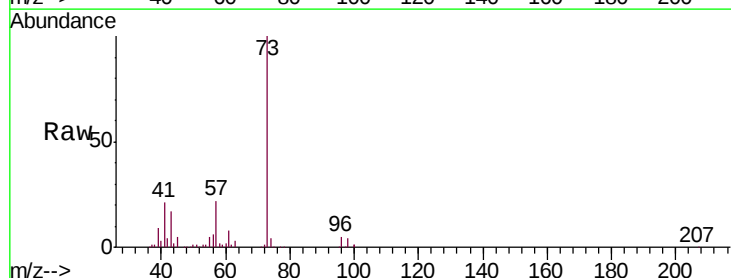
Tgt Ion: 73 Resp: 136188

Ion Ratio Lower Upper

73 100

43 17.4 14.2 21.2

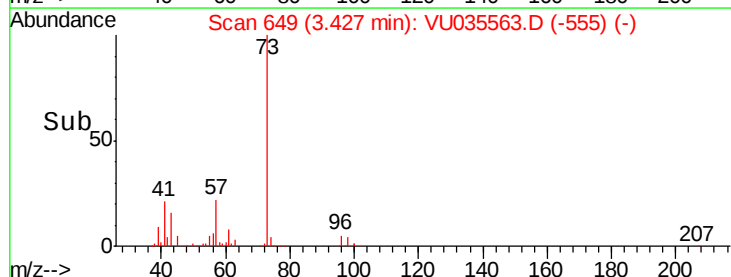
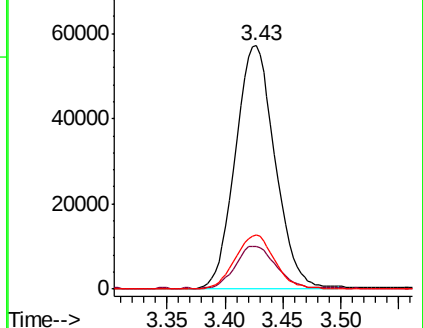
57 22.0 18.3 27.5

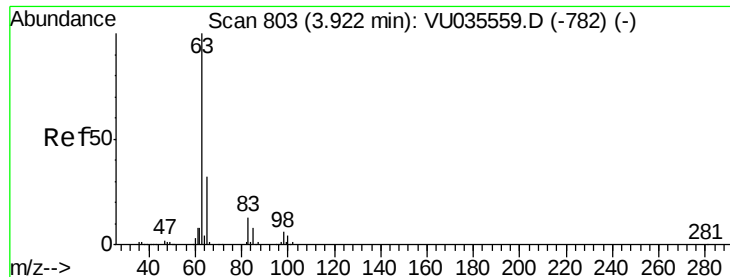


Abundance Ion 73.00 (72.70 to 73.70): VU035559.D (-629) (-)

Ion 43.00 (42.70 to 43.70): VU035559.D (-629) (-)

Ion 57.00 (56.70 to 57.70): VU035559.D (-629) (-)





#19

1,1-Dichloroethane

Concen: 9.516 ug/L

RT: 3.93 min Scan# 804

Delta R.T. 0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

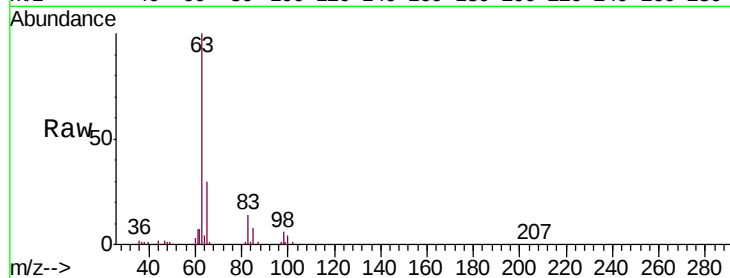
Tgt Ion: 63 Resp: 88088

Ion Ratio Lower Upper

63 100

65 30.3 22.1 41.1

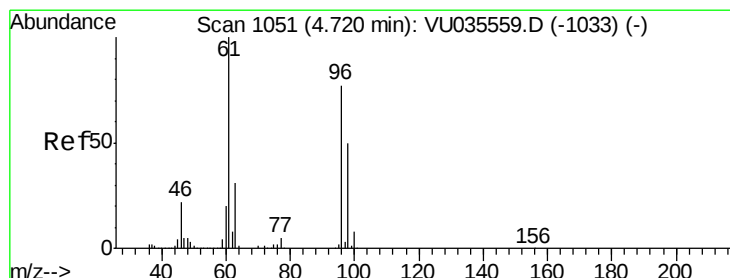
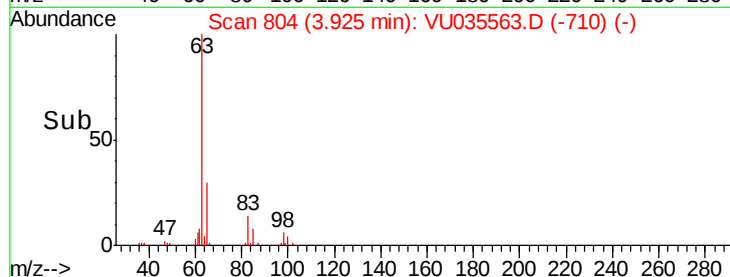
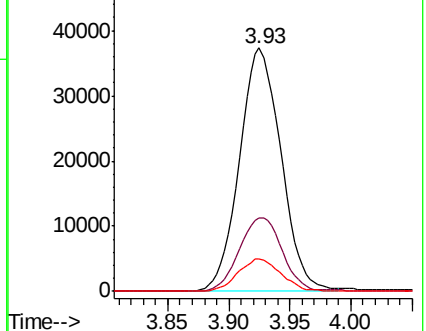
83 13.6 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU035559.D (-782) (-)

Ion 65.00 (64.70 to 65.70): VU035559.D (-782) (-)

Ion 83.00 (82.70 to 83.70): VU035559.D (-782) (-)



#20

cis-1,2-Dichloroethene

Concen: 10.155 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

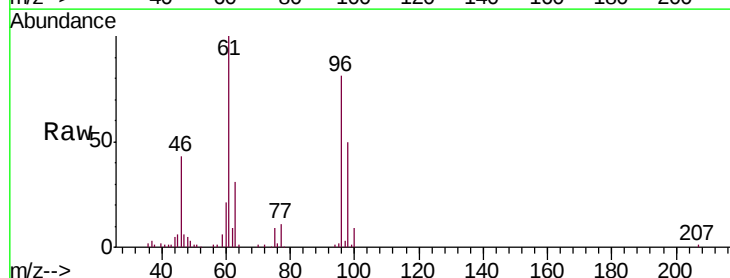
Tgt Ion: 96 Resp: 52074

Ion Ratio Lower Upper

96 100

61 122.8 90.6 168.3

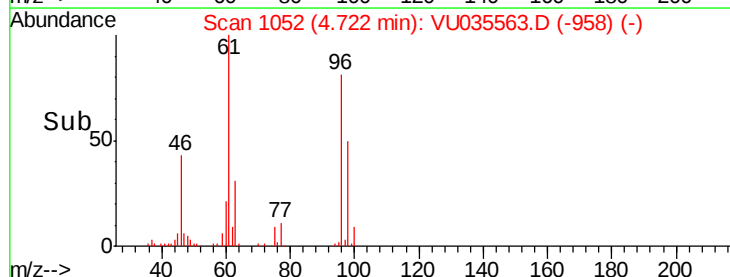
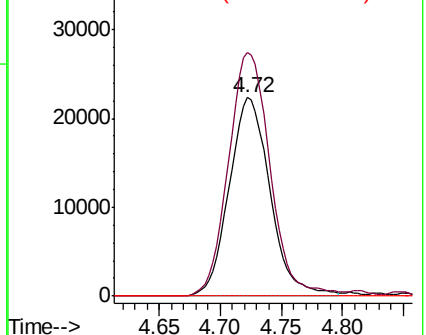
68 0.0 0.0 0.0

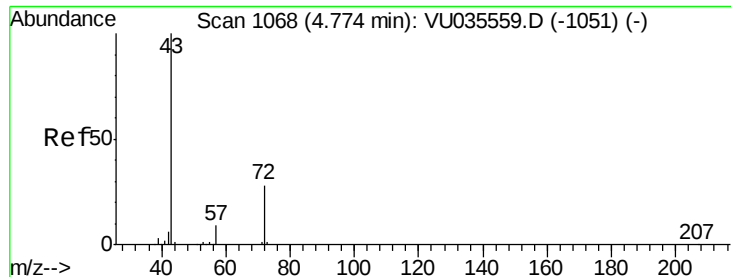


Abundance Ion 96.00 (95.70 to 96.70): VU035559.D (-1033) (-)

Ion 61.00 (60.70 to 61.70): VU035559.D (-1033) (-)

Ion 68.00 (67.70 to 68.70): VU035559.D (-1033) (-)

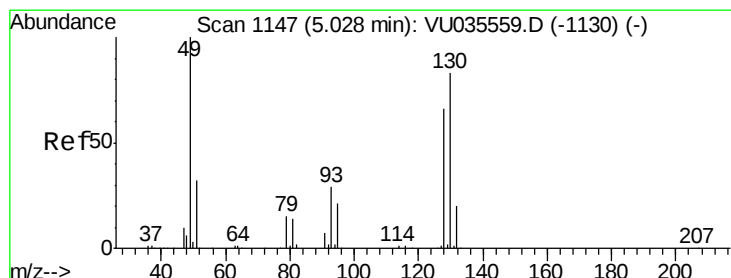
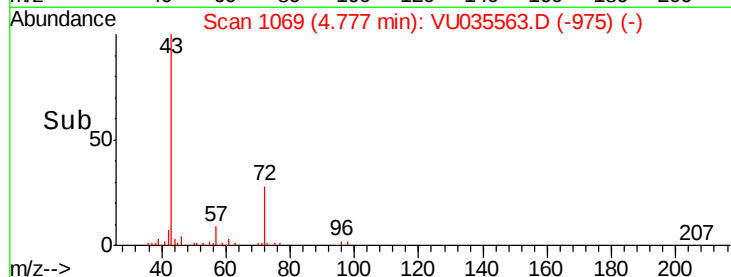
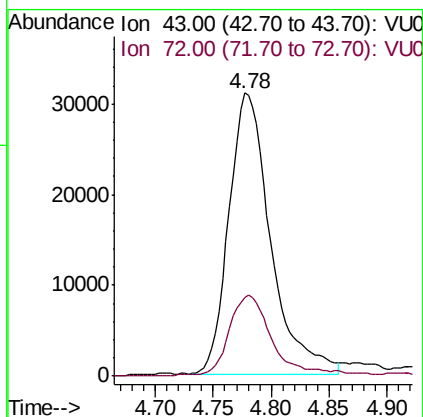
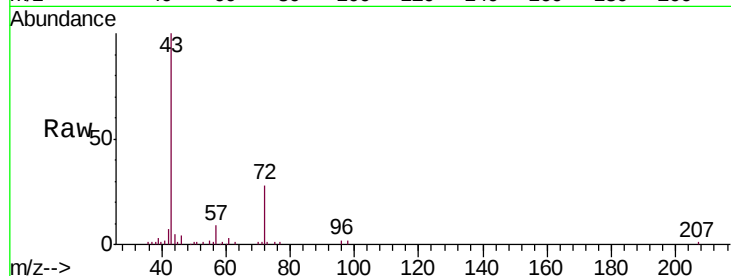




#22
 2-Butanone
 Concen: 18.145 ug/L
 RT: 4.78 min Scan# 1069
 Delta R.T. 0.00 min
 Lab File: VU035563.D
 Acq: 30 Oct 2019 15:39

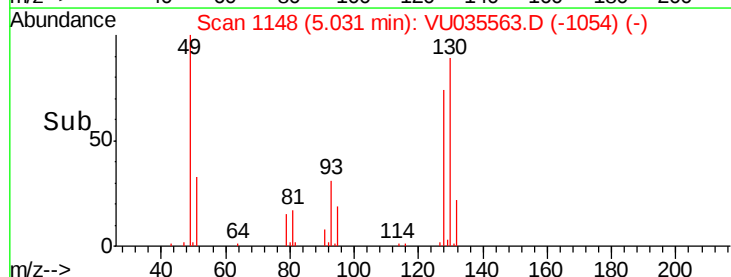
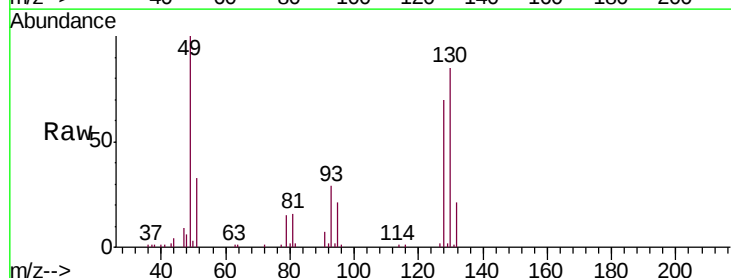
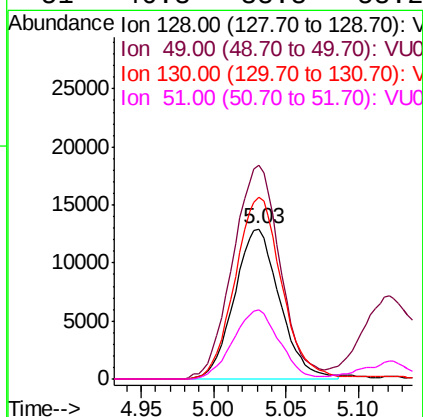
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

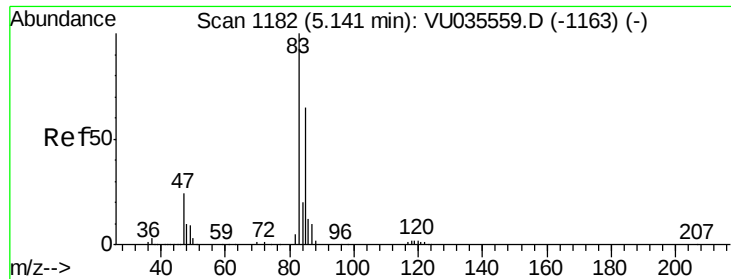
Tgt Ion: 43 Resp: 77581
 Ion Ratio Lower Upper
 43 100
 72 27.7 13.5 40.4



#23
 Bromochloromethane
 Concen: 10.691 ug/L
 RT: 5.03 min Scan# 1148
 Delta R.T. 0.00 min
 Lab File: VU035563.D
 Acq: 30 Oct 2019 15:39

Tgt Ion: 128 Resp: 28148
 Ion Ratio Lower Upper
 128 100
 49 142.4 106.4 197.6
 130 121.1 88.1 163.5
 51 46.3 38.8 58.2





#25

Chloroform

Concen: 9.703 ug/L

RT: 5.14 min Scan# 1182

Delta R.T. -0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

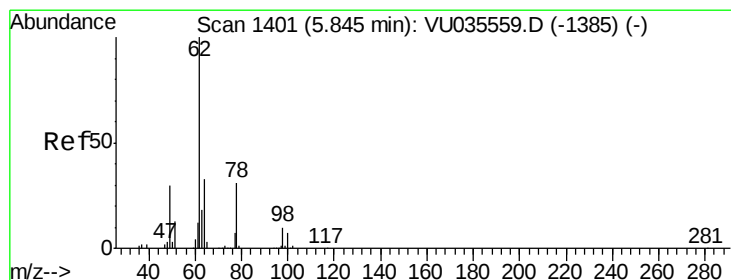
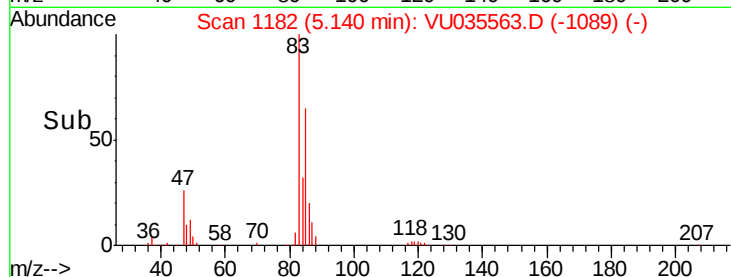
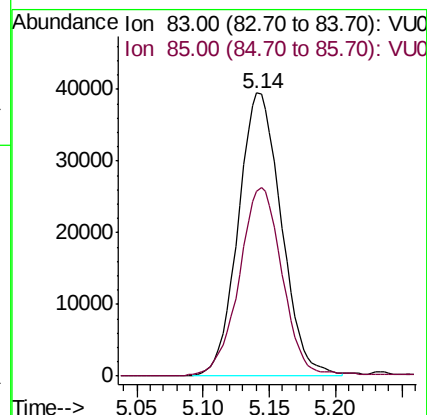
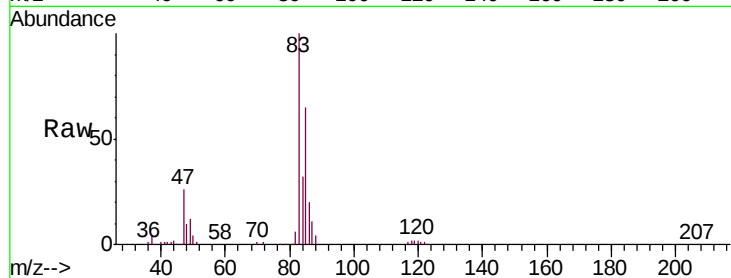
VSTD01031

Tgt Ion: 83 Resp: 89193

Ion Ratio Lower Upper

83 100

85 65.5 45.4 84.4



#27

1,2-Dichloroethane

Concen: 9.381 ug/L

RT: 5.84 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VU035563.D

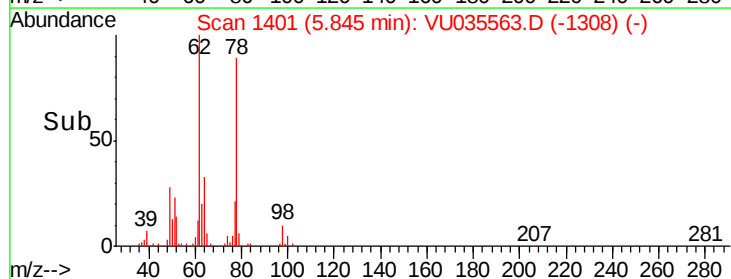
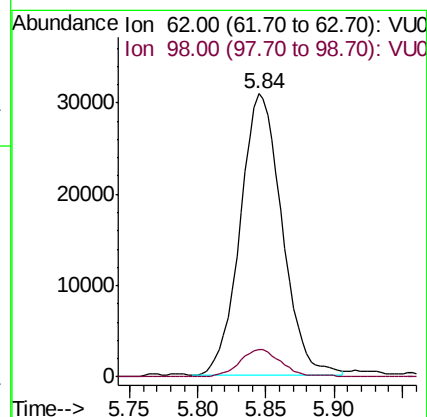
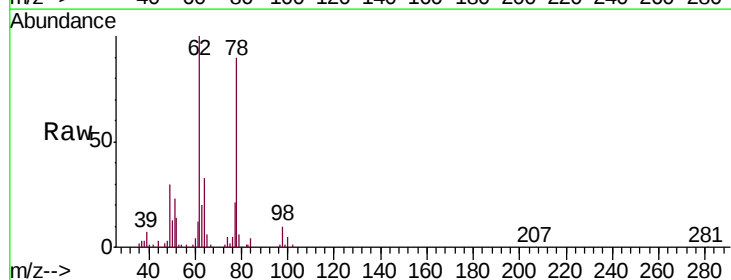
Acq: 30 Oct 2019 15:39

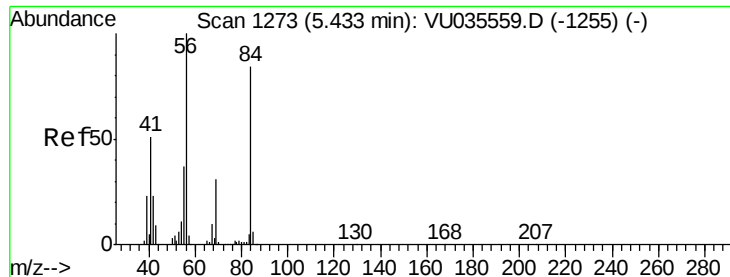
Tgt Ion: 62 Resp: 65640

Ion Ratio Lower Upper

62 100

98 9.8 8.2 12.2

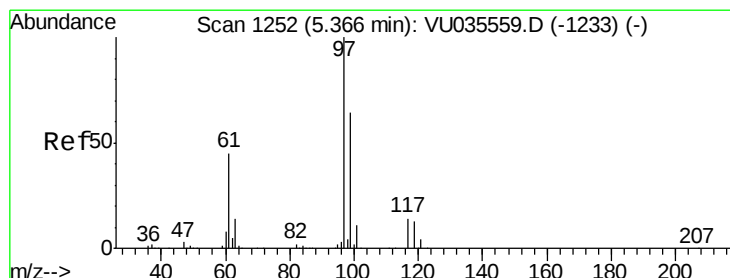
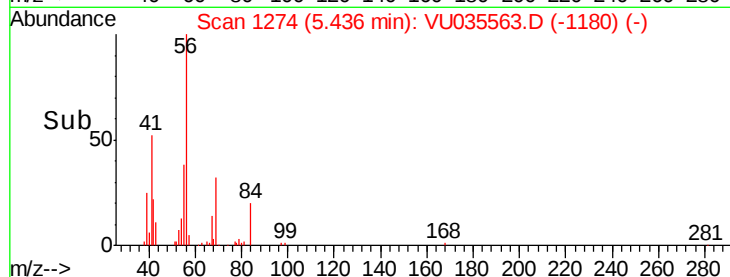
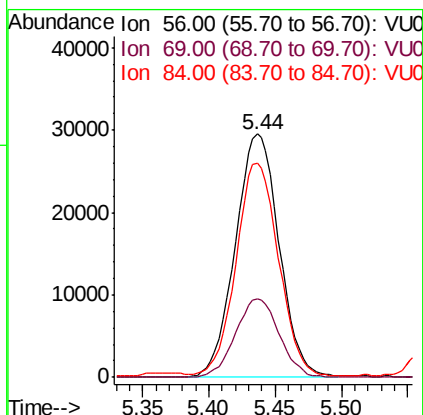
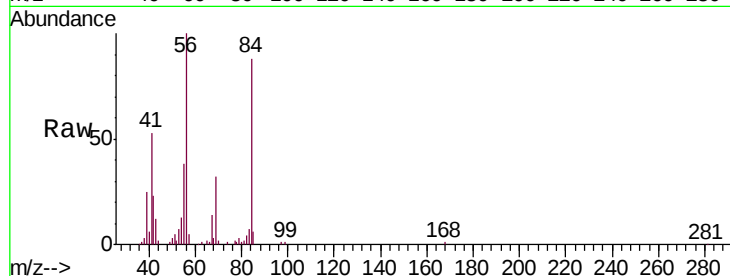




#29
Cyclohexane
Concen: 9.201 ug/L
RT: 5.44 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VU035563.D
Acq: 30 Oct 2019 15:39

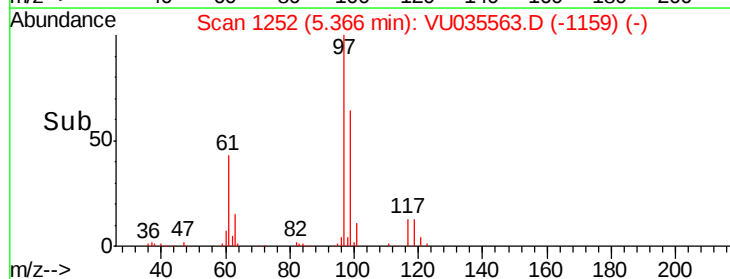
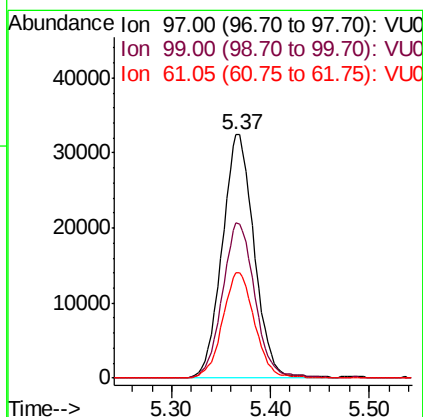
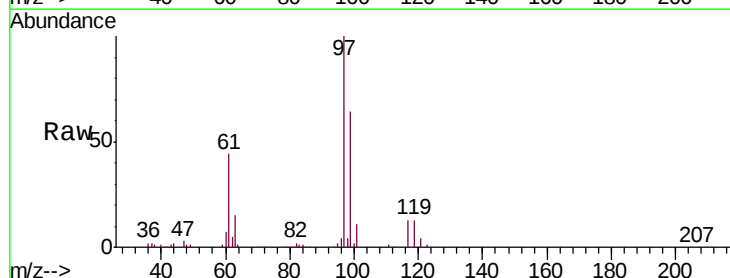
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

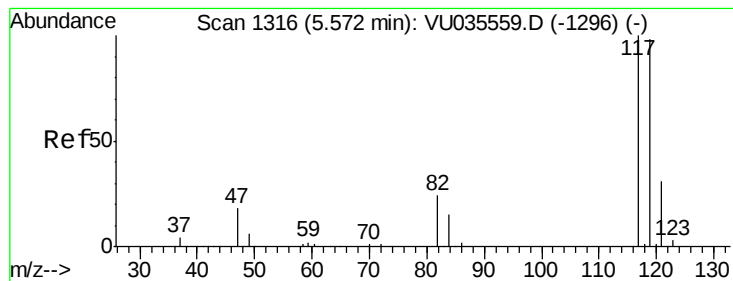
Tgt Ion: 56 Resp: 67828
Ion Ratio Lower Upper
56 100
69 32.0 24.4 36.6
84 84.8 68.6 102.8



#30
1,1,1-Trichloroethane
Concen: 10.119 ug/L
RT: 5.37 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VU035563.D
Acq: 30 Oct 2019 15:39

Tgt Ion: 97 Resp: 73621
Ion Ratio Lower Upper
97 100
99 64.0 51.5 77.3
61 43.4 35.1 52.7





#31

Carbon tetrachloride

Concen: 10.226 ug/L

RT: 5.57 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

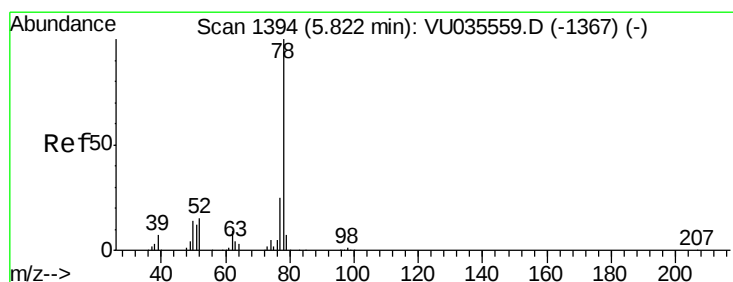
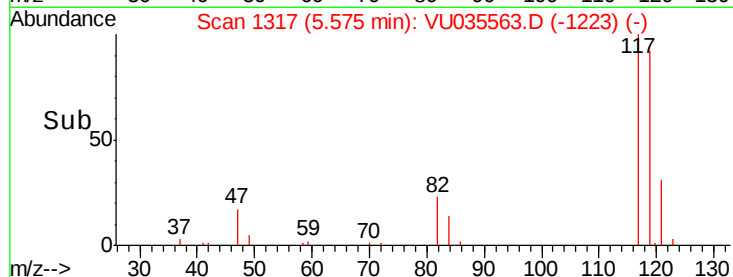
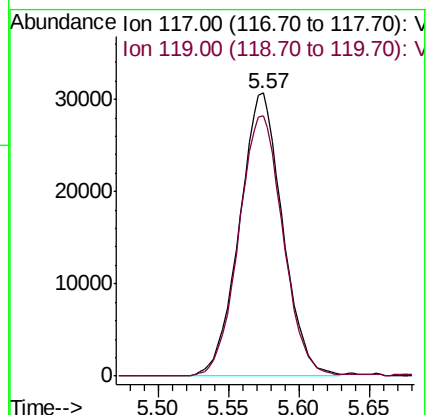
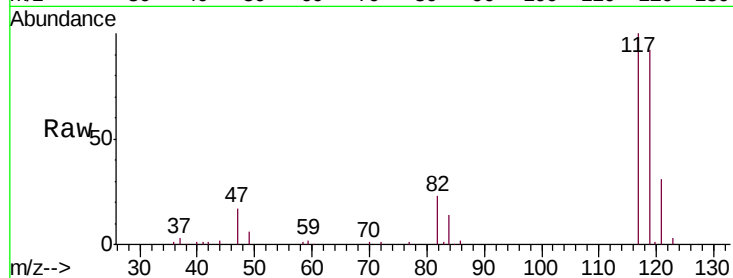
VSTD01031

Tgt Ion:117 Resp: 65684

Ion Ratio Lower Upper

117 100

119 94.1 77.4 116.2



#33

Benzene

Concen: 9.782 ug/L

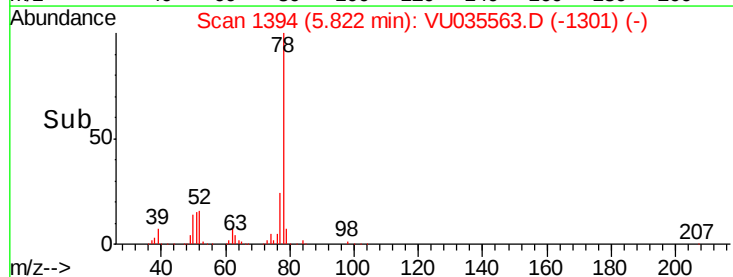
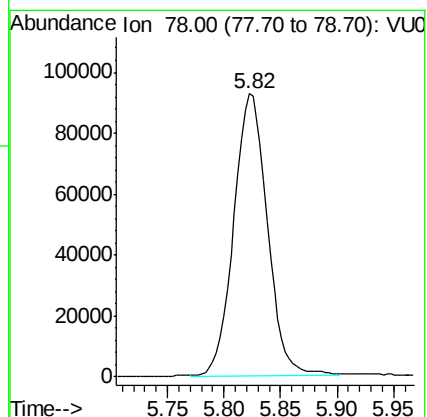
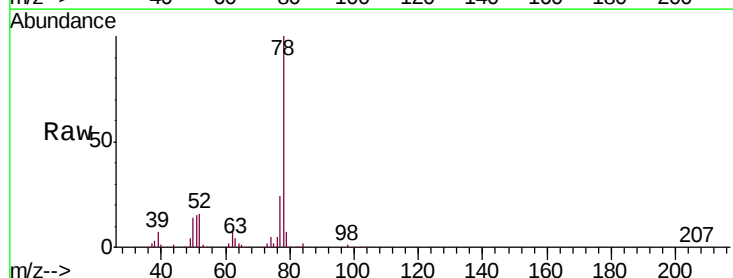
RT: 5.82 min Scan# 1394

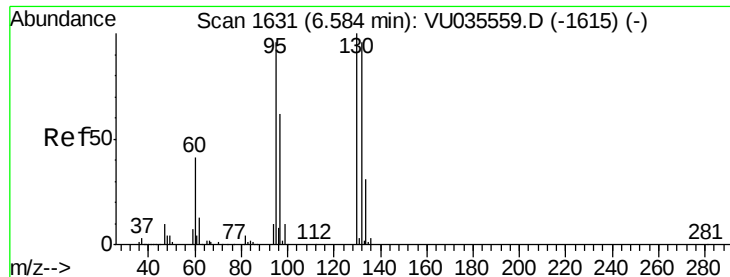
Delta R.T. -0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Tgt Ion: 78 Resp: 192668





#34

Trichloroethene

Concen: 10.230 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. -0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

Tgt Ion: 95 Resp: 49866

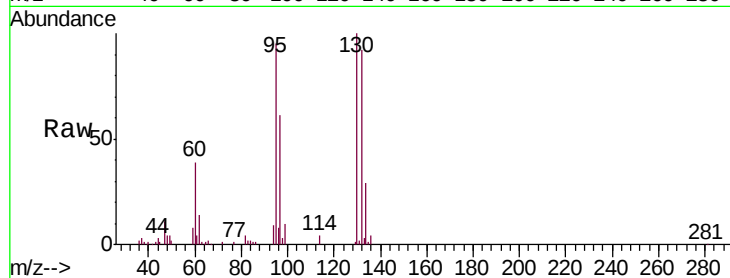
Ion Ratio Lower Upper

95 100

97 64.4 45.6 84.6

132 96.8 69.9 129.7

130 105.6 73.1 135.7

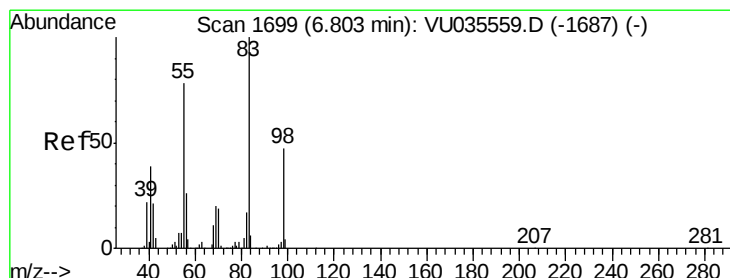
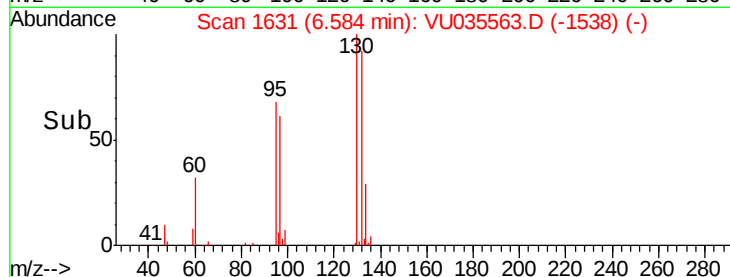
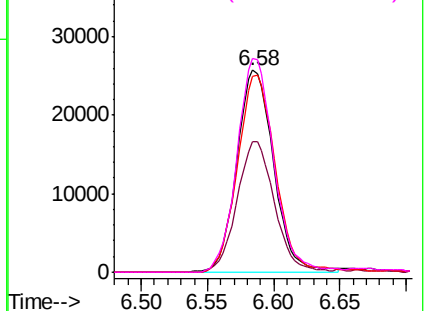


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 9.887 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

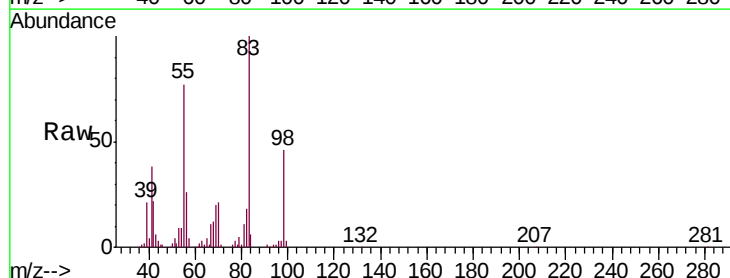
Tgt Ion: 83 Resp: 67867

Ion Ratio Lower Upper

83 100

55 77.7 61.0 91.4

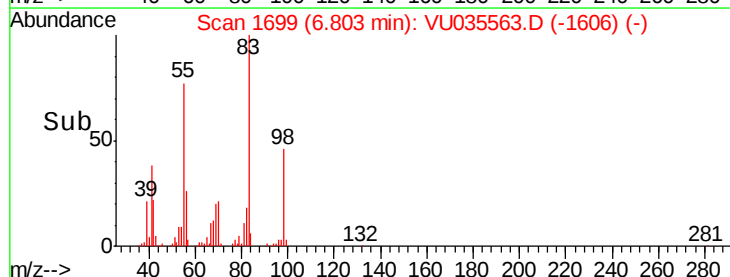
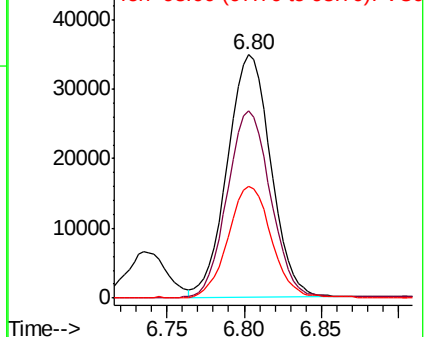
98 46.2 36.6 54.8

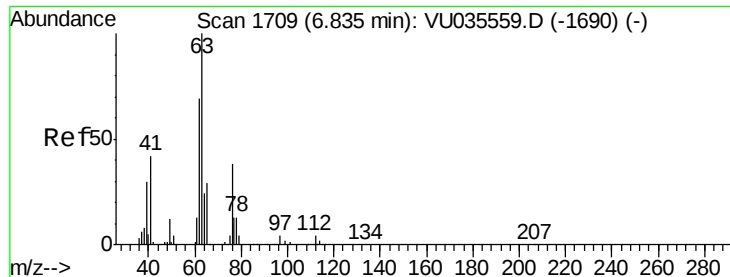


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 9.732 ug/L

RT: 6.83 min Scan# 1709

Delta R.T. -0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

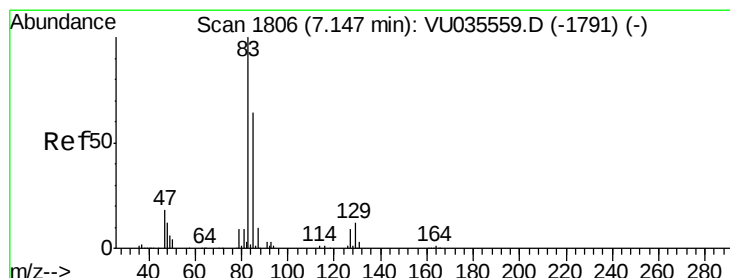
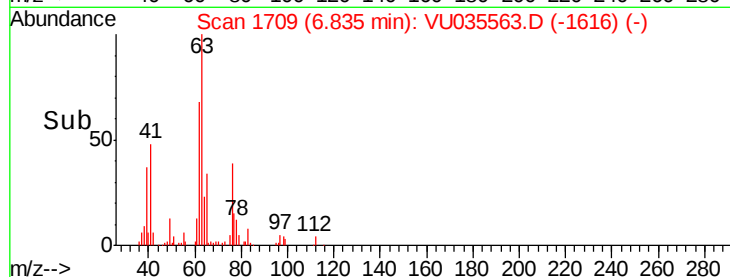
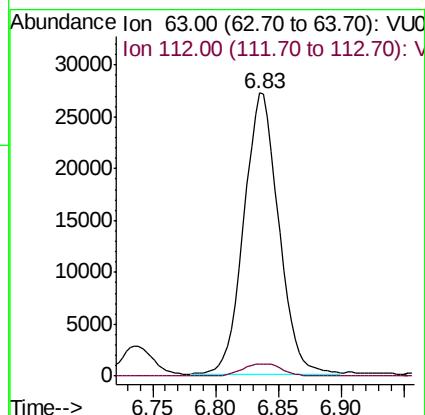
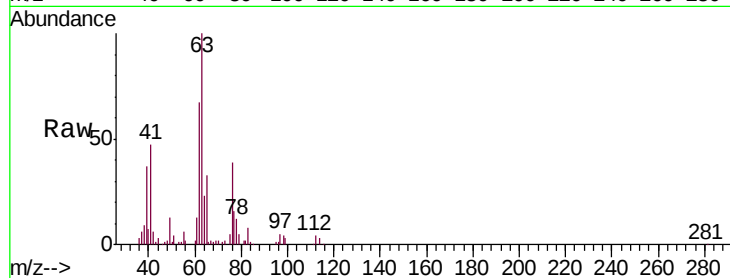
VSTD01031

Tgt Ion: 63 Resp: 52546

Ion Ratio Lower Upper

63 100

112 2.8 3.2 4.8#



#38

Bromodichloromethane

Concen: 9.885 ug/L

RT: 7.15 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

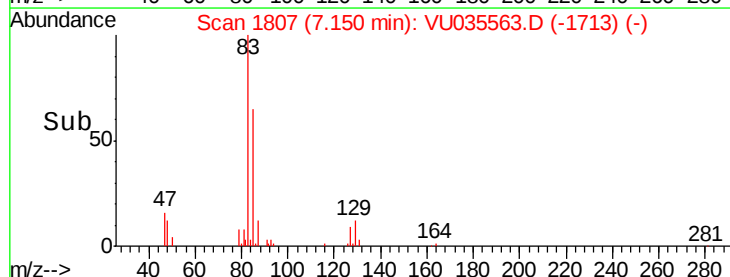
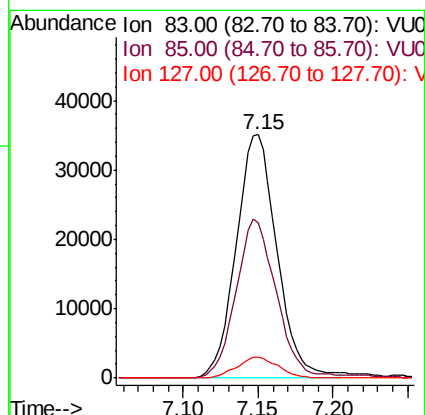
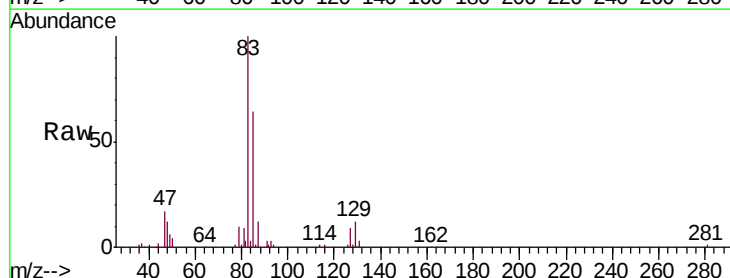
Tgt Ion: 83 Resp: 66106

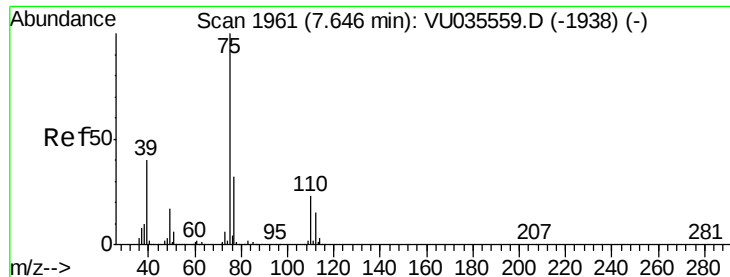
Ion Ratio Lower Upper

83 100

85 63.6 45.1 83.7

127 8.7 7.2 10.8

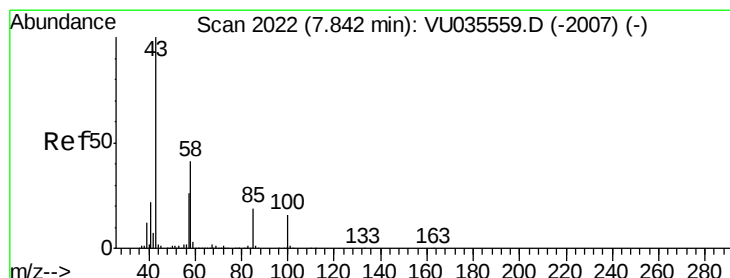
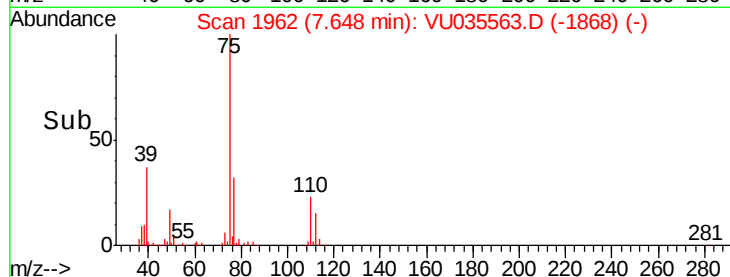
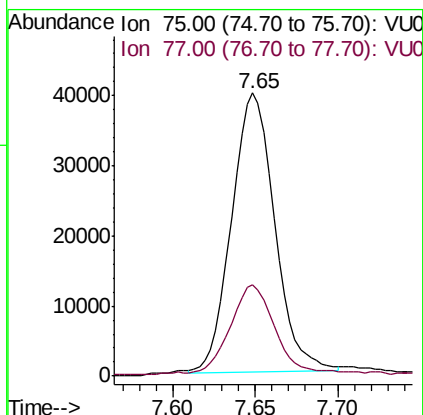
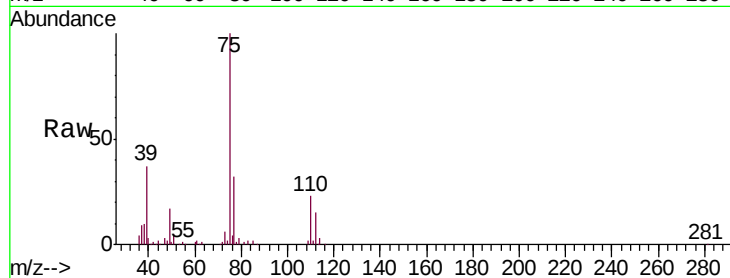




#39
 cis-1,3-Dichloropropene
 Concen: 9.079 ug/L
 RT: 7.65 min Scan# 1962
 Delta R.T. 0.00 min
 Lab File: VU035563.D
 Acq: 30 Oct 2019 15:39

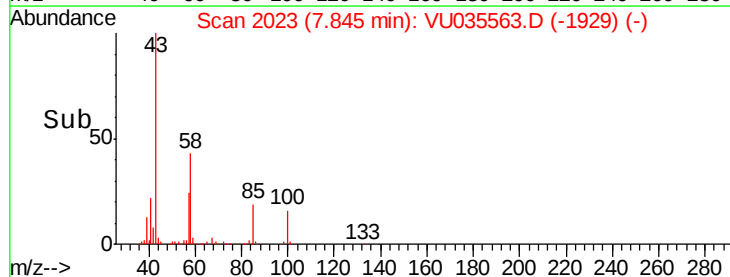
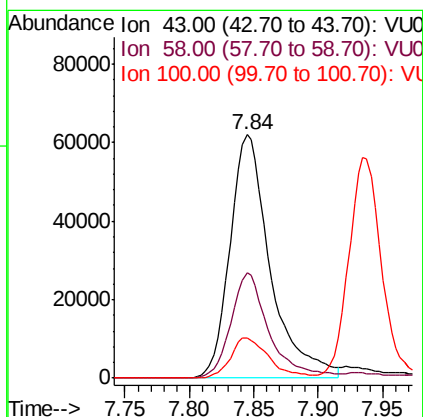
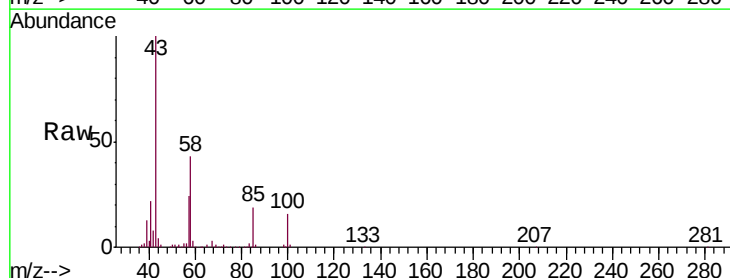
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

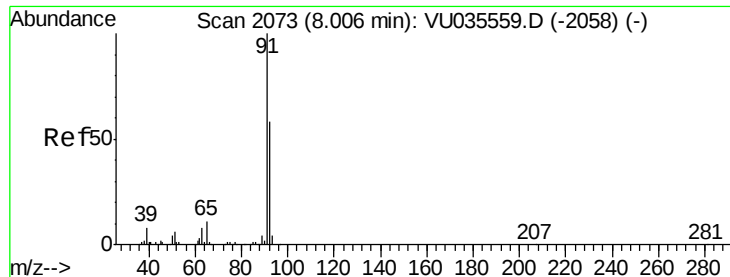
Tgt Ion: 75 Resp: 72249
 Ion Ratio Lower Upper
 75 100
 77 32.3 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 18.545 ug/L
 RT: 7.84 min Scan# 2023
 Delta R.T. 0.00 min
 Lab File: VU035563.D
 Acq: 30 Oct 2019 15:39

Tgt Ion: 43 Resp: 135032
 Ion Ratio Lower Upper
 43 100
 58 40.9 32.6 49.0
 100 15.9 12.6 19.0





#42

Toluene

Concen: 9.845 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

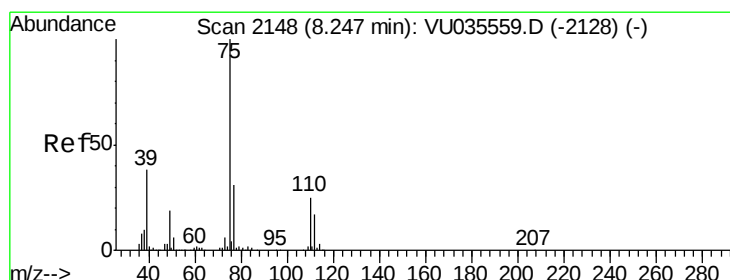
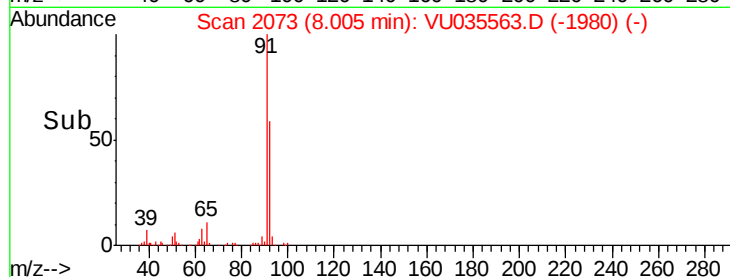
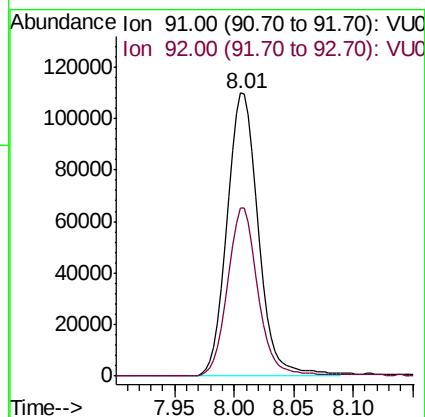
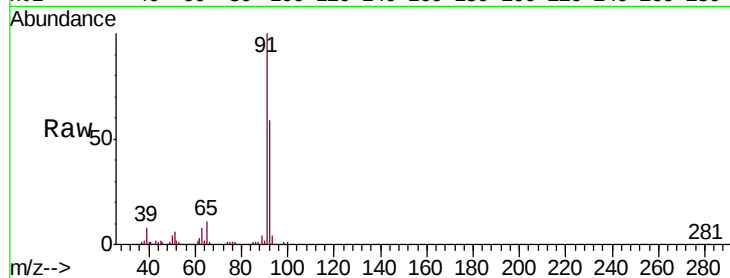
VSTD01031

Tgt Ion: 91 Resp: 201191

Ion Ratio Lower Upper

91 100

92 59.3 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 9.459 ug/L

RT: 8.25 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VU035563.D

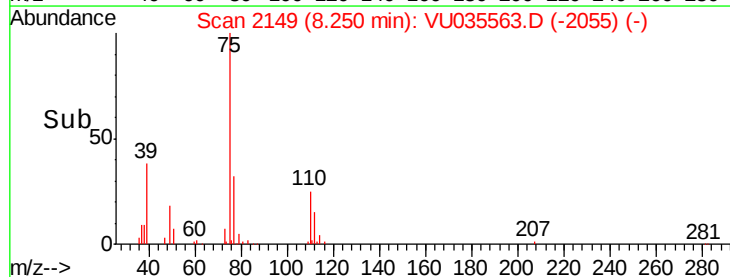
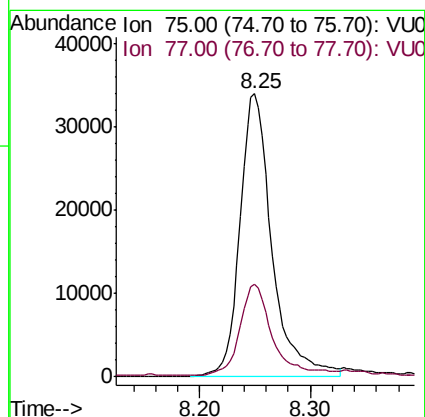
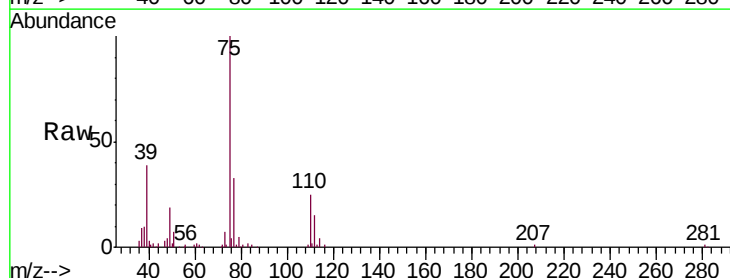
Acq: 30 Oct 2019 15:39

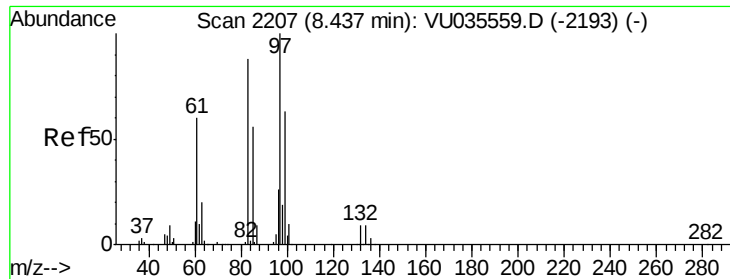
Tgt Ion: 75 Resp: 68579

Ion Ratio Lower Upper

75 100

77 32.9 22.1 41.1

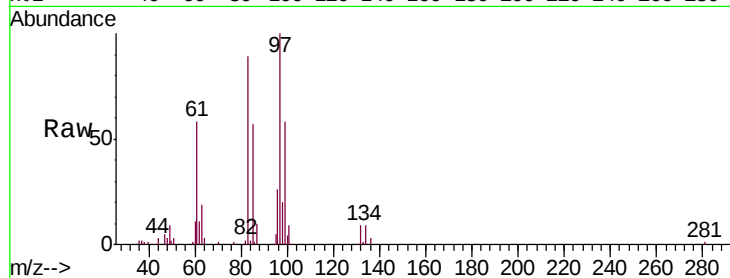




#45
1,1,2-Trichloroethane
Concen: 10.178 ug/L
RT: 8.44 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VU035563.D
Acq: 30 Oct 2019 15:39

Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

Tgt Ion:	97	Resp:	50392
Ion	Ratio	Lower	Upper
97	100		
99	57.9	44.2	82.2
83	88.9	61.5	114.3
85	57.5	39.3	73.1



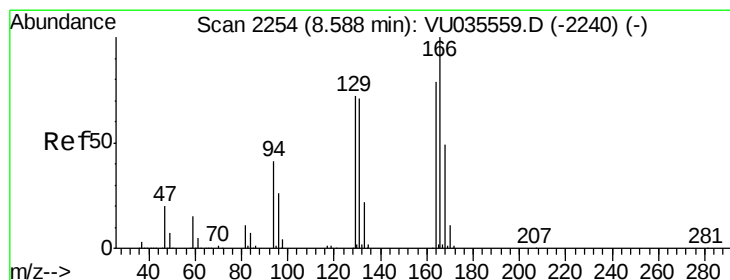
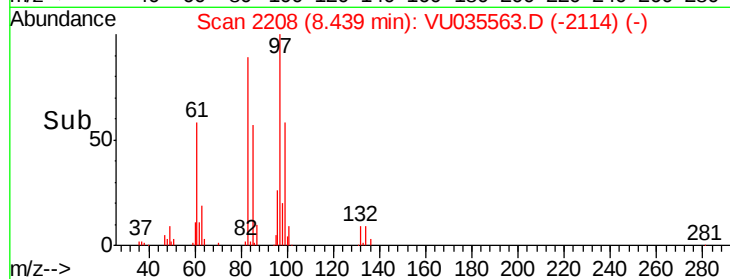
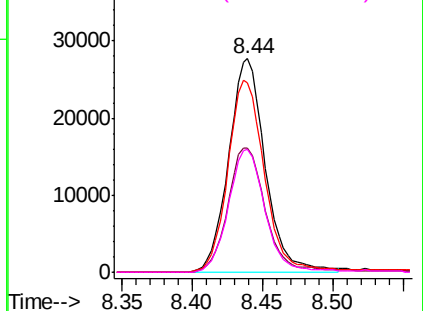
Abundance

Ion 97.00 (96.70 to 97.70): VU035559.D (-2193) (-)

Ion 99.00 (98.70 to 99.70): VU035559.D (-2193) (-)

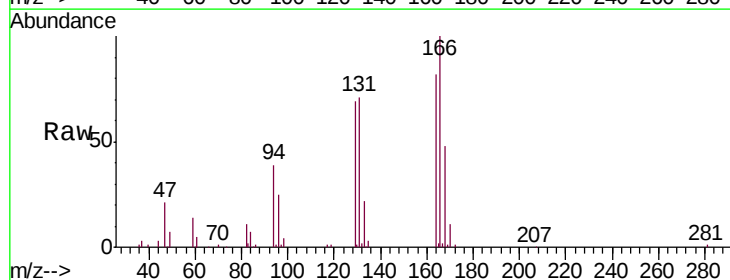
Ion 83.00 (82.70 to 83.70): VU035559.D (-2193) (-)

Ion 85.00 (84.70 to 85.70): VU035559.D (-2193) (-)



#46
Tetrachloroethene
Concen: 10.999 ug/L
RT: 8.59 min Scan# 2254
Delta R.T. -0.00 min
Lab File: VU035563.D
Acq: 30 Oct 2019 15:39

Tgt Ion:	164	Resp:	42488
Ion	Ratio	Lower	Upper
164	100		
129	84.5	64.1	119.1
131	86.3	63.1	117.1
166	122.1	88.5	164.3



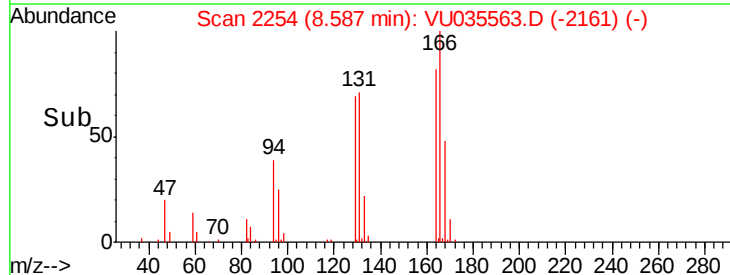
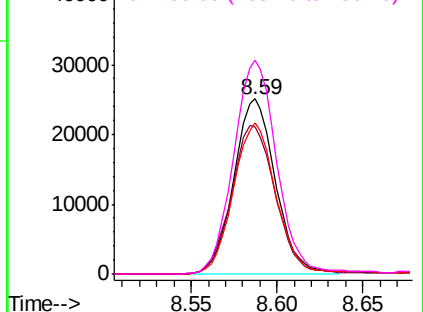
Abundance

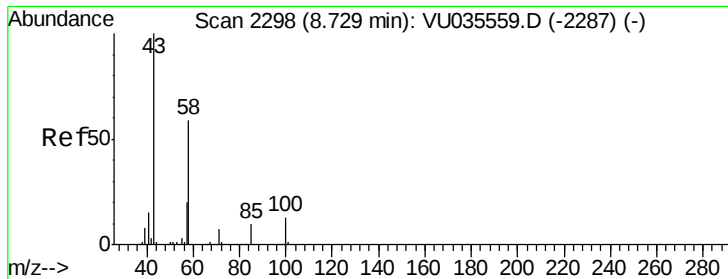
Ion 164.00 (163.70 to 164.70): VU035559.D (-2240) (-)

Ion 129.00 (128.70 to 129.70): VU035559.D (-2240) (-)

Ion 131.00 (130.70 to 131.70): VU035559.D (-2240) (-)

Ion 166.00 (165.70 to 166.70): VU035559.D (-2240) (-)

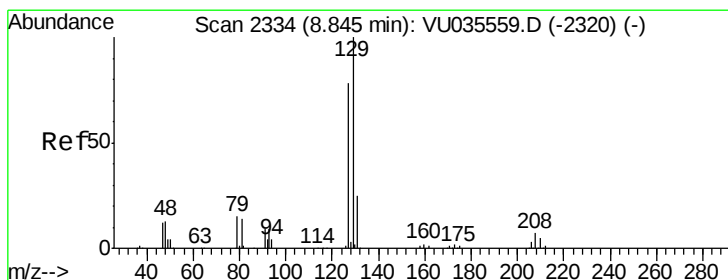
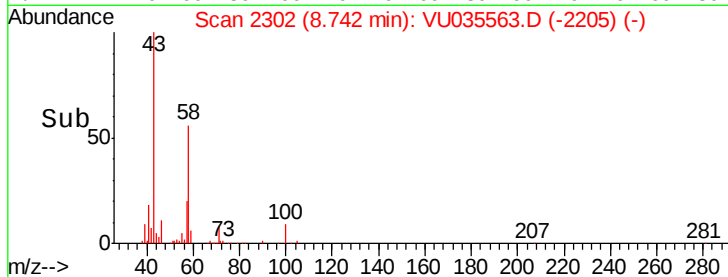
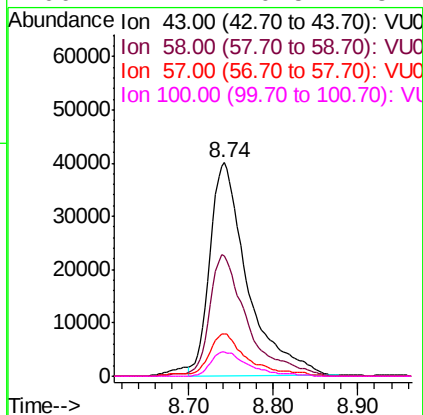
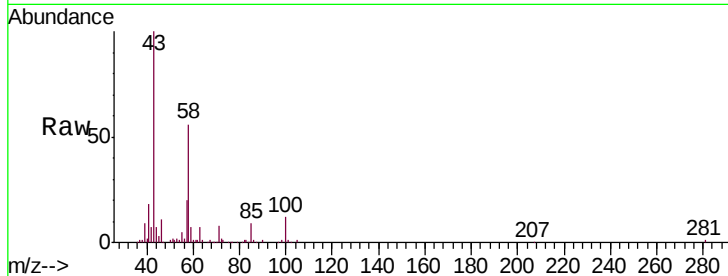




#48
2-Hexanone
Concen: 21.087 ug/L
RT: 8.74 min Scan# 2302
Delta R.T. 0.01 min
Lab File: VU035563.D
Acq: 30 Oct 2019 15:39

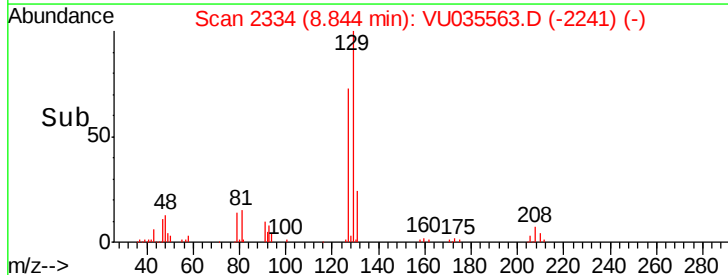
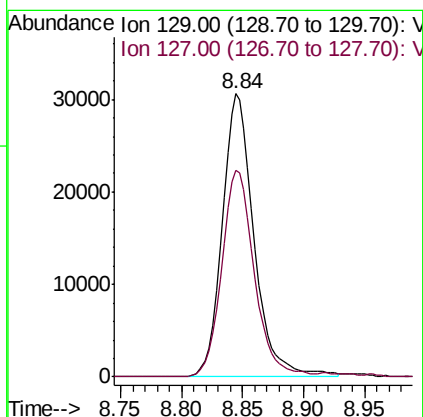
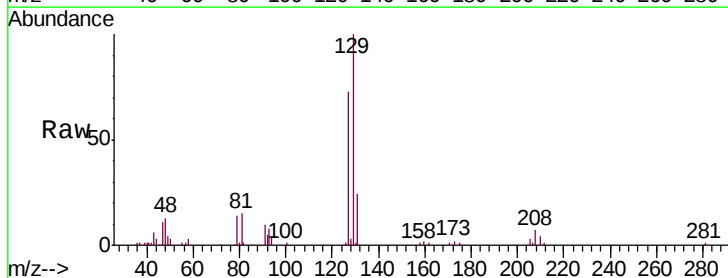
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

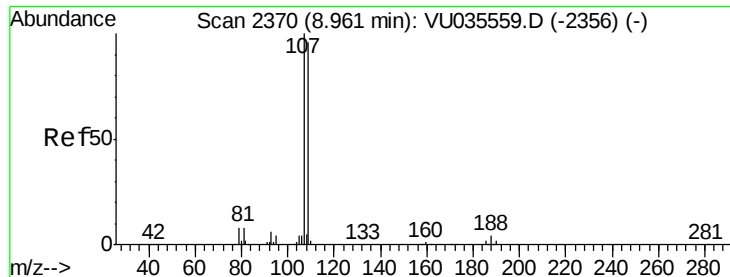
Tgt Ion:	43	Resp:	123375
Ion	Ratio	Lower	Upper
43	100		
58	56.5	50.4	75.6
57	17.8	17.4	26.0
100	11.1	10.5	15.7



#49
Dibromochloromethane
Concen: 10.398 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. -0.00 min
Lab File: VU035563.D
Acq: 30 Oct 2019 15:39

Tgt Ion:	129	Resp:	55810
Ion	Ratio	Lower	Upper
129	100		
127	73.1	54.9	101.9

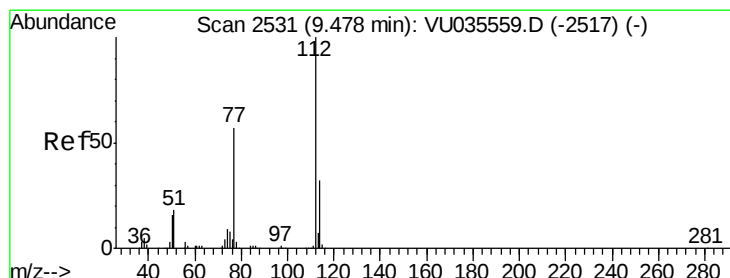
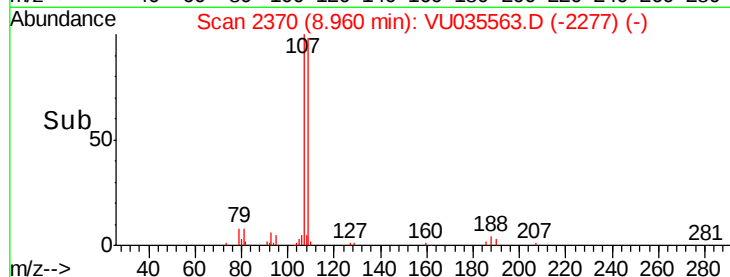
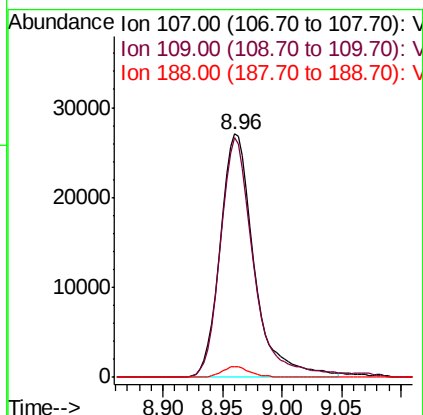
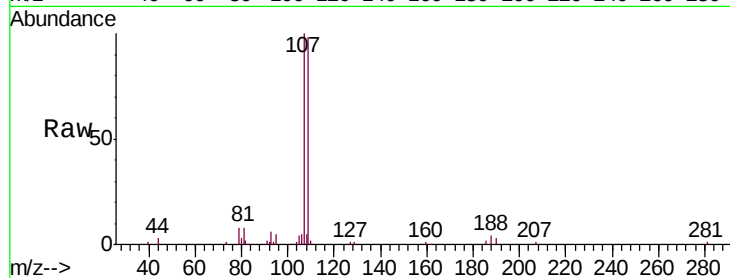




#50
1,2-Dibromoethane
Concen: 10.314 ug/L
RT: 8.96 min Scan# 2370
Delta R.T. -0.00 min
Lab File: VU035563.D
Acq: 30 Oct 2019 15:39

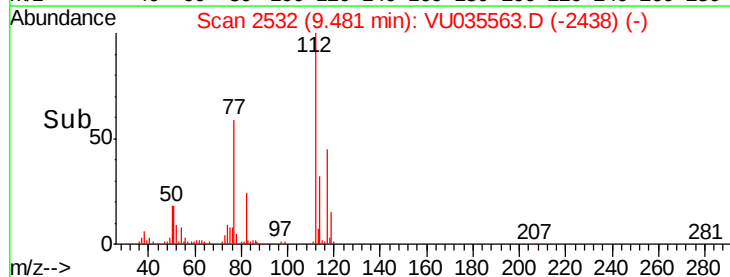
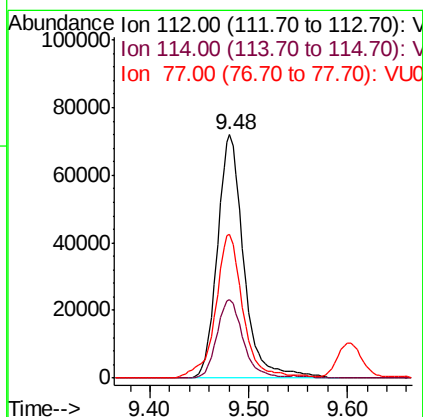
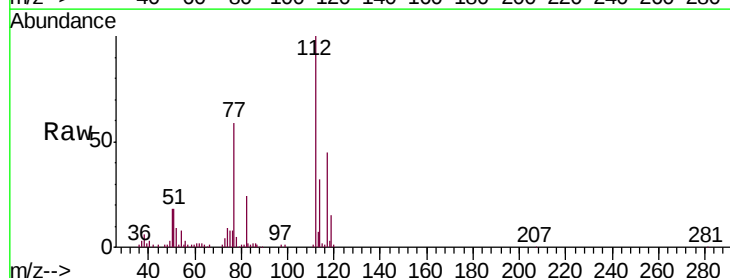
Instrument :
MSVOA_U
ClientSampleId :
VSTD01031

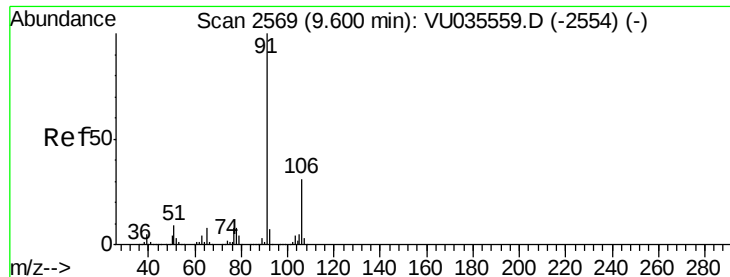
Tgt Ion:107 Resp: 53828
Ion Ratio Lower Upper
107 100
109 98.3 66.8 124.2
188 4.4 3.2 4.8



#51
Chlorobenzene
Concen: 10.165 ug/L
RT: 9.48 min Scan# 2532
Delta R.T. 0.00 min
Lab File: VU035563.D
Acq: 30 Oct 2019 15:39

Tgt Ion:112 Resp: 135130
Ion Ratio Lower Upper
112 100
114 32.5 22.7 42.3
77 58.8 45.9 68.9





#52

Ethylbenzene

Concen: 9.566 ug/L

RT: 9.60 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

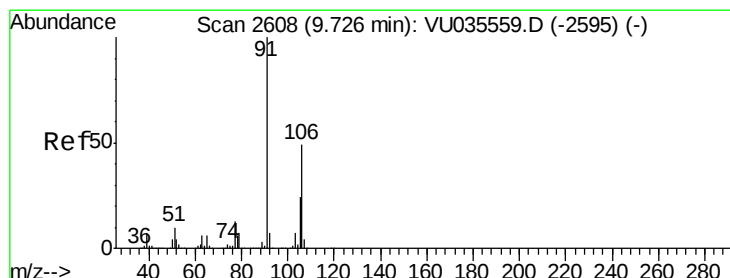
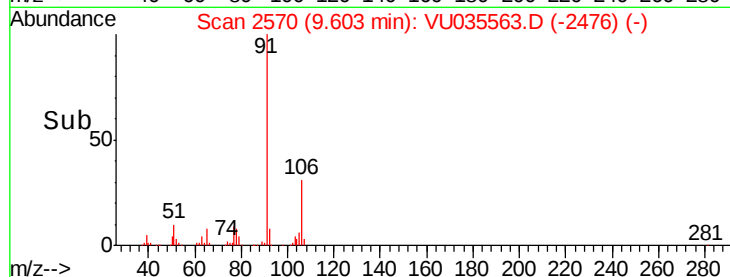
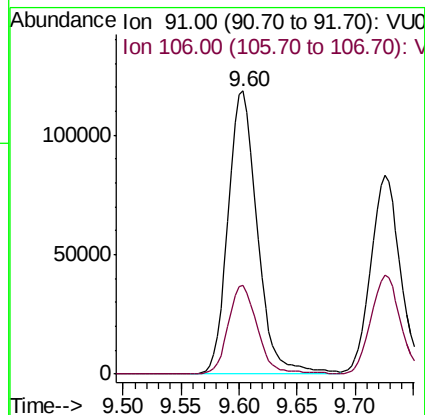
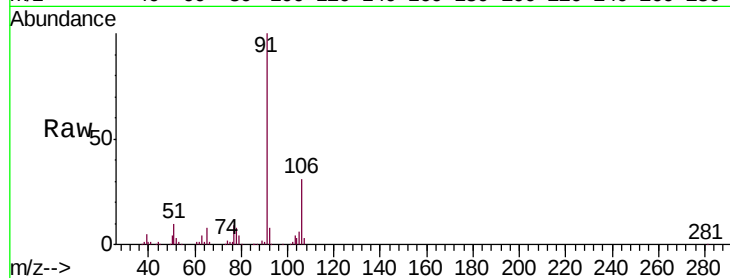
VSTD01031

Tgt Ion: 91 Resp: 207640

Ion Ratio Lower Upper

91 100

106 31.2 21.6 40.0



#53

m,p-Xylene

Concen: 9.510 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. -0.00 min

Lab File: VU035563.D

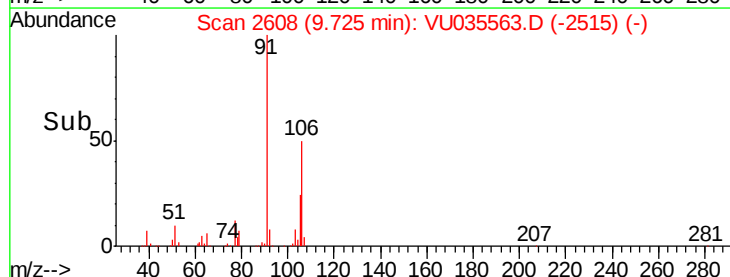
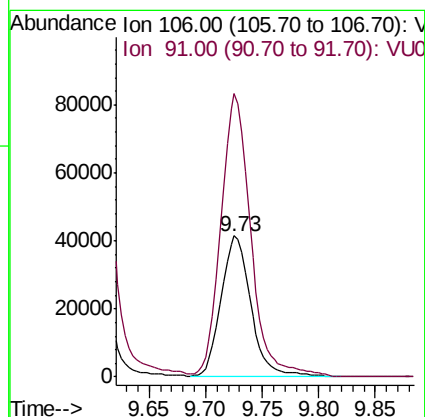
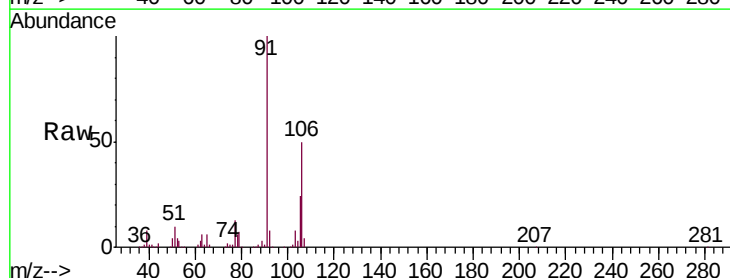
Acq: 30 Oct 2019 15:39

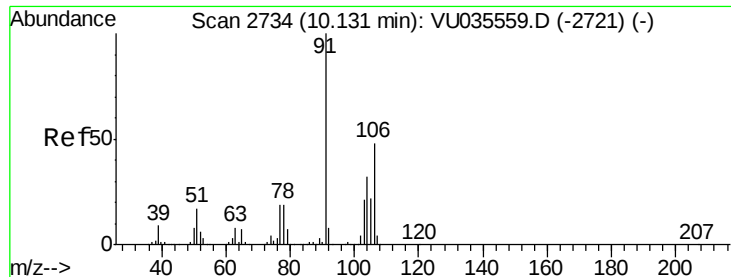
Tgt Ion: 106 Resp: 76605

Ion Ratio Lower Upper

106 100

91 201.0 142.7 264.9





#54

o-xylene

Concen: 9.435 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

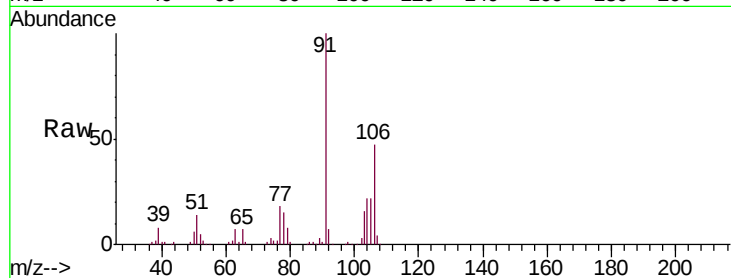
VSTD01031

Tgt Ion:106 Resp: 74511

Ion Ratio Lower Upper

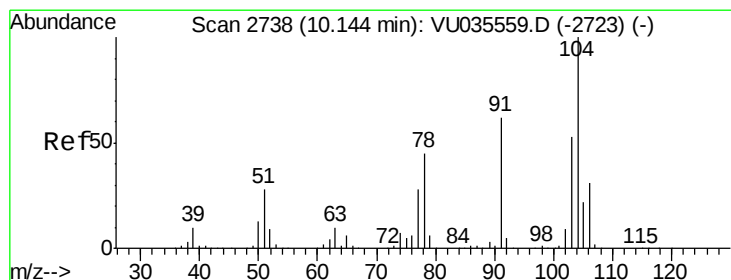
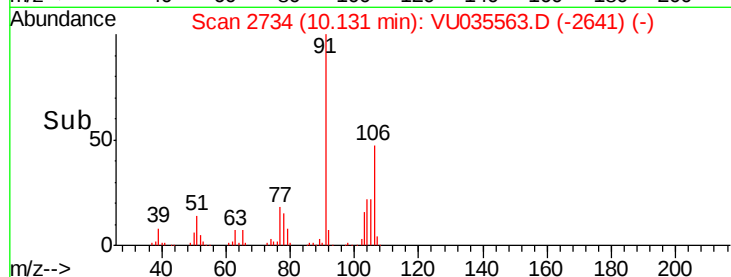
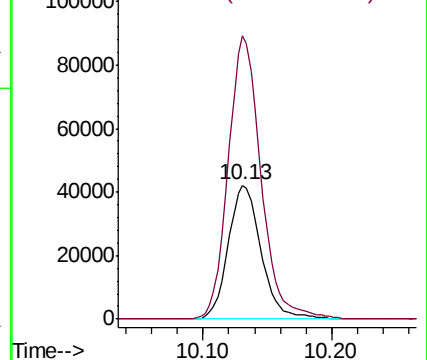
106 100

91 211.5 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 9.202 ug/L

RT: 10.15 min Scan# 2739

Delta R.T. 0.00 min

Lab File: VU035563.D

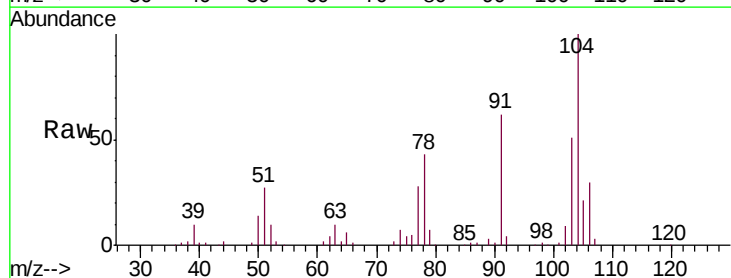
Acq: 30 Oct 2019 15:39

Tgt Ion:104 Resp: 118820

Ion Ratio Lower Upper

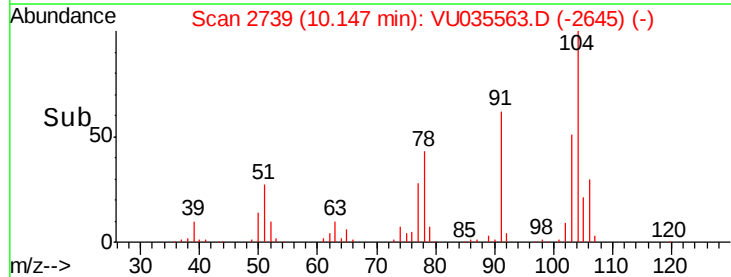
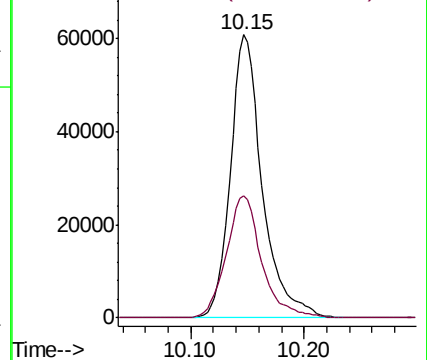
104 100

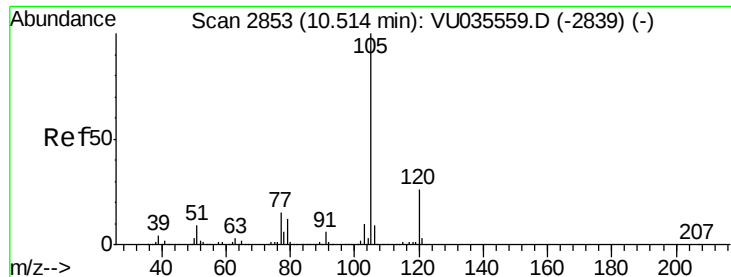
78 43.3 31.4 58.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 9.184 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

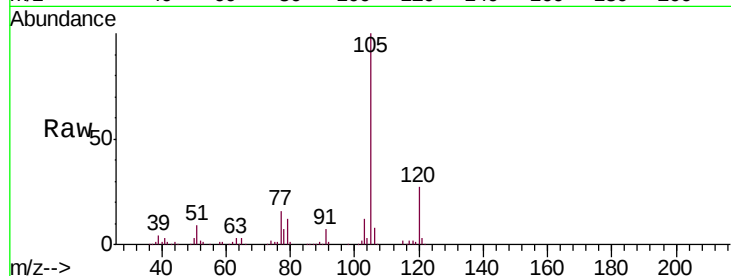
Tgt Ion: 105 Resp: 182948

Ion Ratio Lower Upper

105 100

120 26.4 21.1 31.7

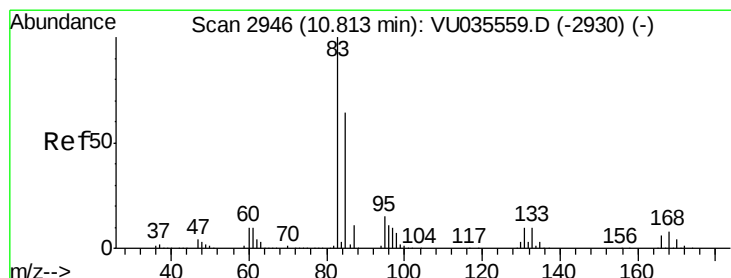
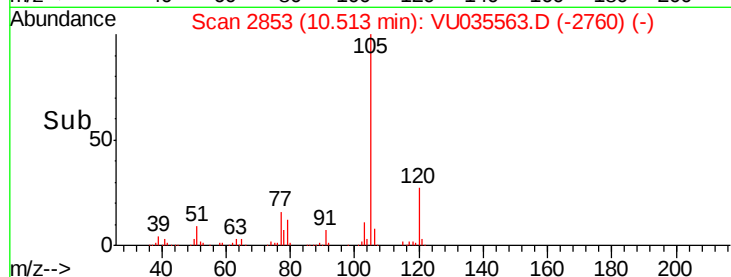
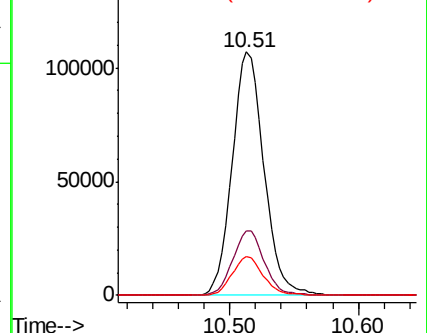
77 15.5 12.2 18.4



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: 9.720 ug/L

RT: 10.82 min Scan# 2947

Delta R.T. 0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

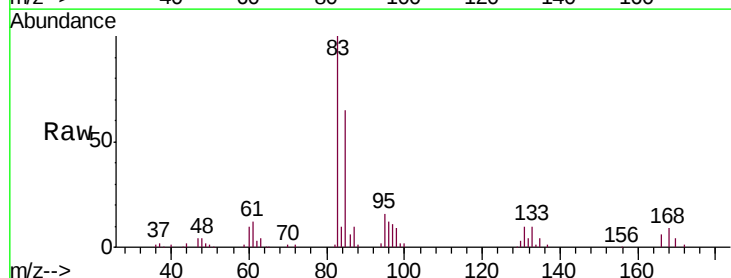
Tgt Ion: 83 Resp: 84737

Ion Ratio Lower Upper

83 100

85 64.5 44.6 82.8

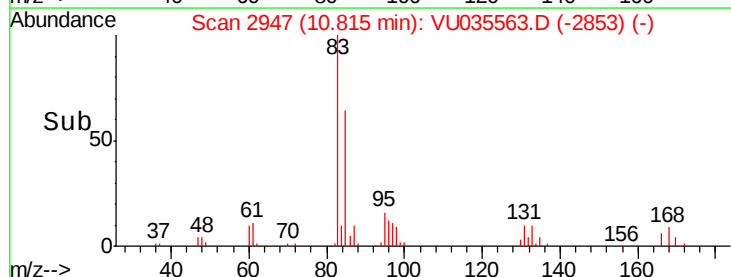
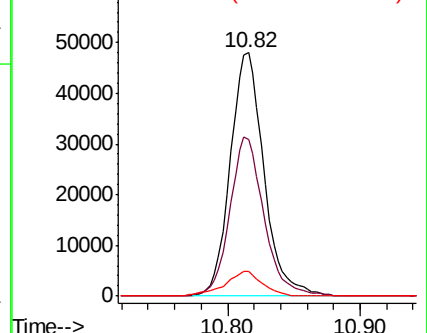
131 9.9 8.2 12.4

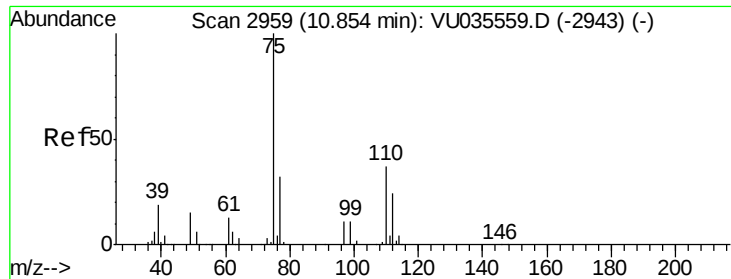


Abundance Ion 83.00 (82.70 to 83.70): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 131.00 (130.70 to 131.70): V

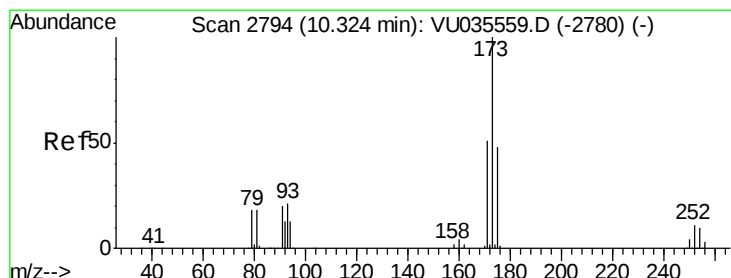
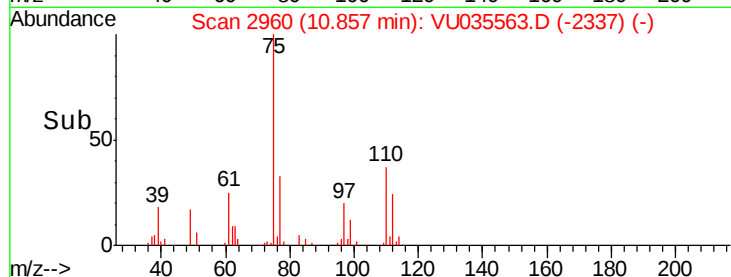
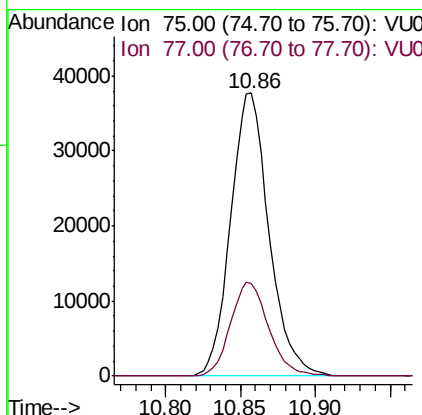
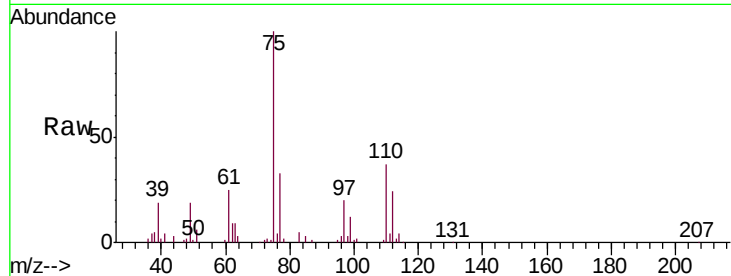




#59
 1,2,3-Trichloropropane
 Concen: 9.756 ug/L
 RT: 10.86 min Scan# 2960
 Delta R.T. 0.00 min
 Lab File: VU035563.D
 Acq: 30 Oct 2019 15:39

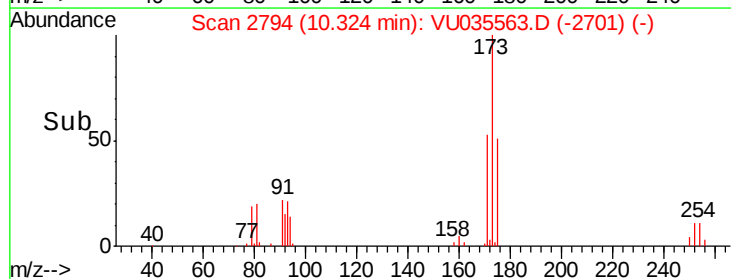
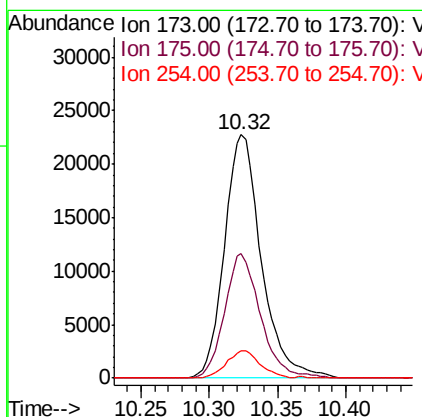
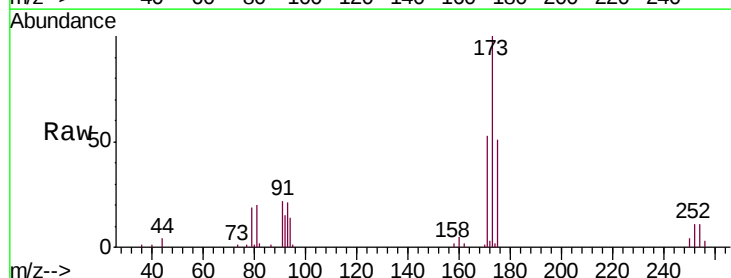
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

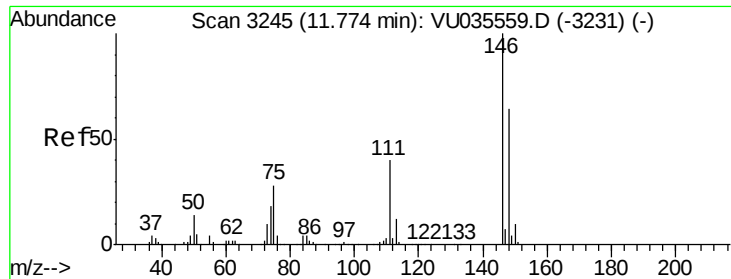
Tgt Ion: 75 Resp: 67265
 Ion Ratio Lower Upper
 75 100
 77 33.0 25.7 38.5



#61
 Bromoform
 Concen: 11.312 ug/L
 RT: 10.32 min Scan# 2794
 Delta R.T. -0.00 min
 Lab File: VU035563.D
 Acq: 30 Oct 2019 15:39

Tgt Ion: 173 Resp: 42722
 Ion Ratio Lower Upper
 173 100
 175 49.5 39.4 59.0
 254 10.2 8.1 12.1





#62

1,3-Dichlorobenzene

Concen: 10.546 ug/L

RT: 11.78 min Scan# 3246

Delta R.T. 0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD01031

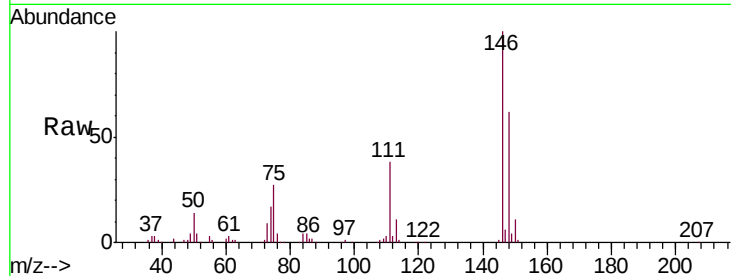
Tgt Ion:146 Resp: 83652

Ion Ratio Lower Upper

146 100

111 37.8 27.8 51.6

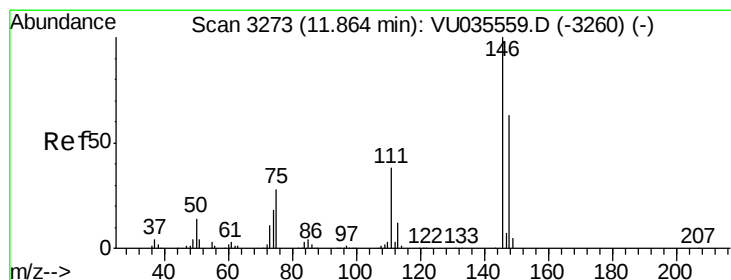
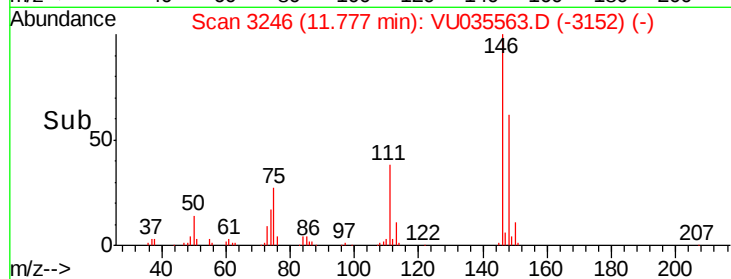
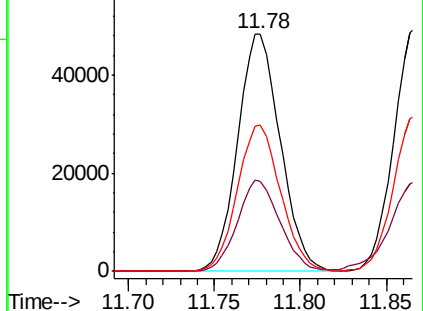
148 61.6 44.5 82.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 10.560 ug/L

RT: 11.87 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

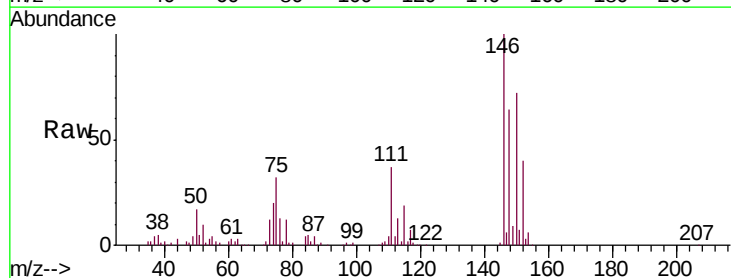
Tgt Ion:146 Resp: 85258

Ion Ratio Lower Upper

146 100

111 37.0 26.5 49.1

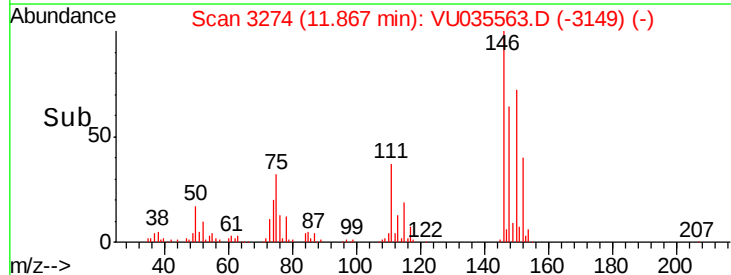
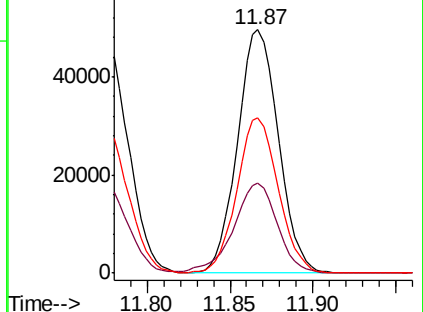
148 64.0 44.4 82.5

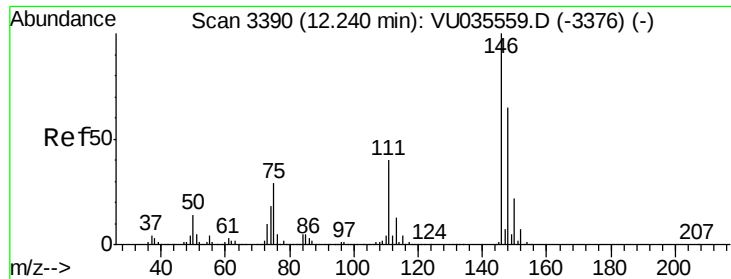


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

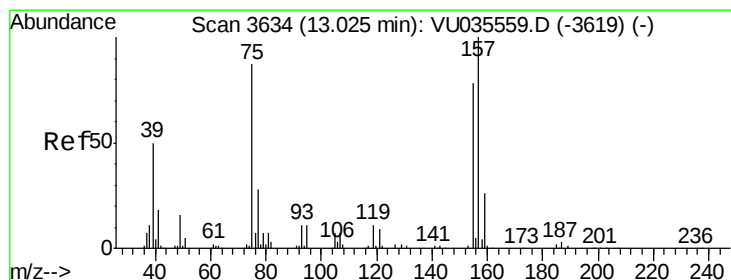
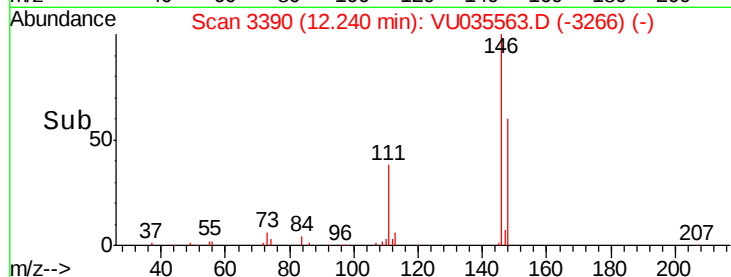
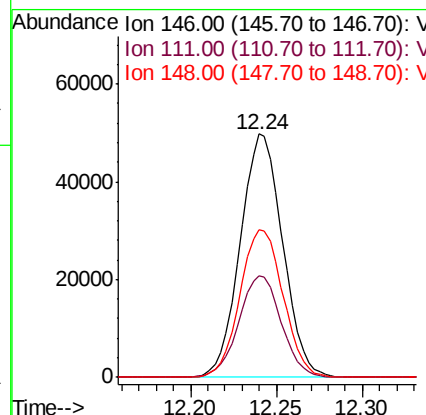
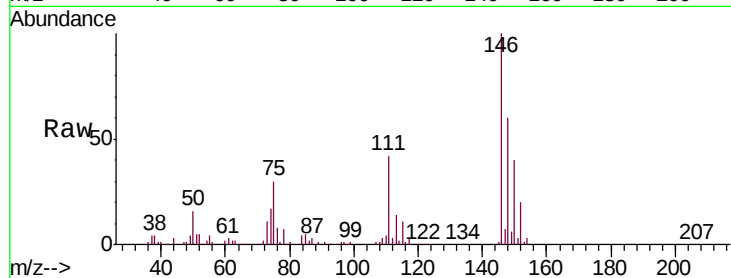




#65
 1,2-Dichlorobenzene
 Concen: 10.548 ug/L
 RT: 12.24 min Scan# 3390
 Delta R.T. -0.00 min
 Lab File: VU035563.D
 Acq: 30 Oct 2019 15:39

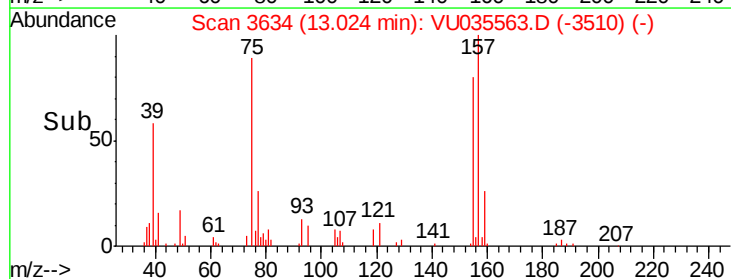
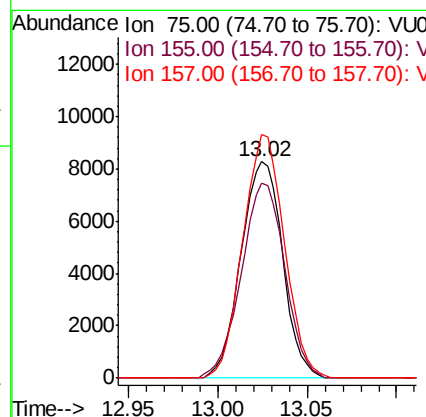
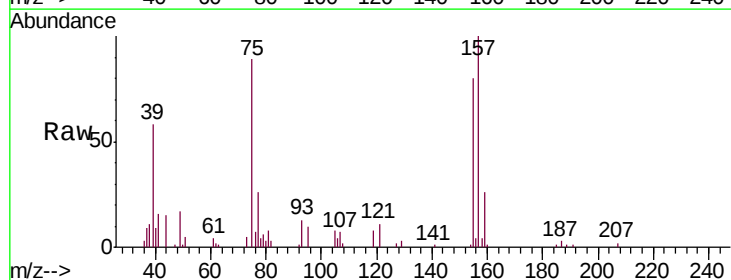
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

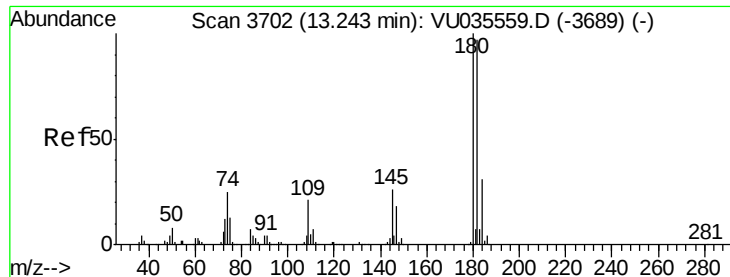
Tgt Ion: 146 Resp: 85248
 Ion Ratio Lower Upper
 146 100
 111 41.6 32.4 48.6
 148 60.4 51.8 77.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 10.175 ug/L
 RT: 13.02 min Scan# 3634
 Delta R.T. -0.00 min
 Lab File: VU035563.D
 Acq: 30 Oct 2019 15:39

Tgt Ion: 75 Resp: 13435
 Ion Ratio Lower Upper
 75 100
 155 90.4 72.2 108.4
 157 112.6 92.1 138.1

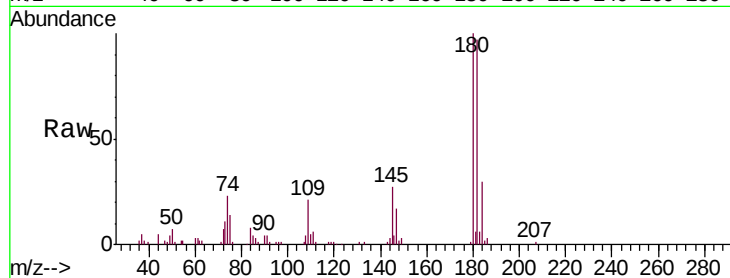




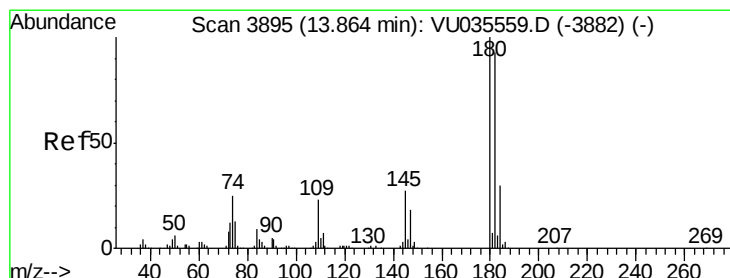
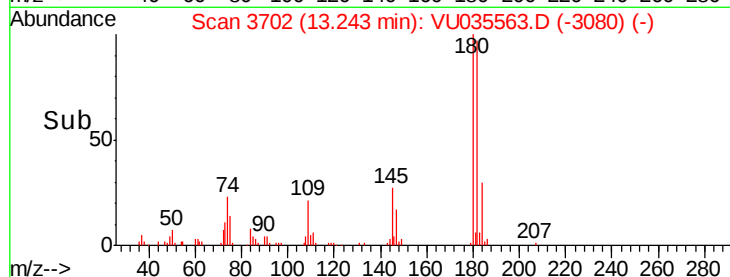
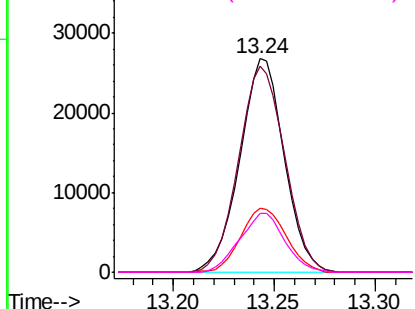
#67
 1,3,5-Trichlorobenzene
 Concen: 9.912 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. -0.00 min
 Lab File: VU035563.D
 Acq: 30 Oct 2019 15:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01031

Tgt Ion:180 Resp: 41344
 Ion Ratio Lower Upper
 180 100
 182 99.9 77.0 115.4
 184 30.8 24.6 36.8
 145 28.0 21.7 32.5

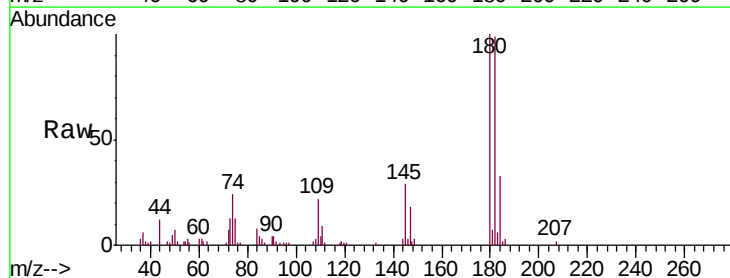


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

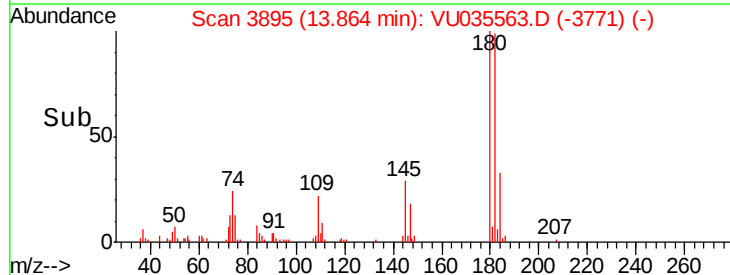
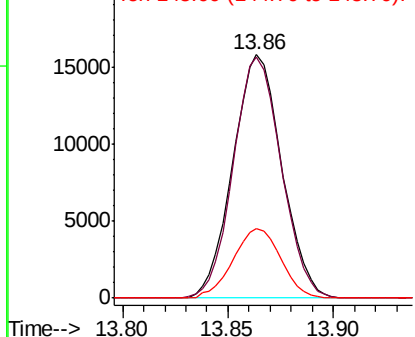


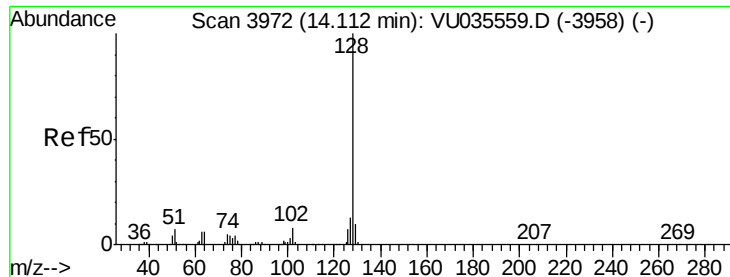
#68
 1,2,4-trichlorobenzene
 Concen: 9.647 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.00 min
 Lab File: VU035563.D
 Acq: 30 Oct 2019 15:39

Tgt Ion:180 Resp: 25425
 Ion Ratio Lower Upper
 180 100
 182 96.8 76.6 115.0
 145 27.8 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: 9.544 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampled :

VSTD01031

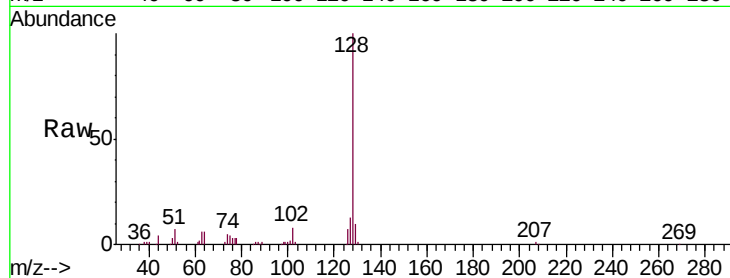
Tgt Ion:128 Resp: 68228

Ion Ratio Lower Upper

128 100

127 13.1 10.7 16.1

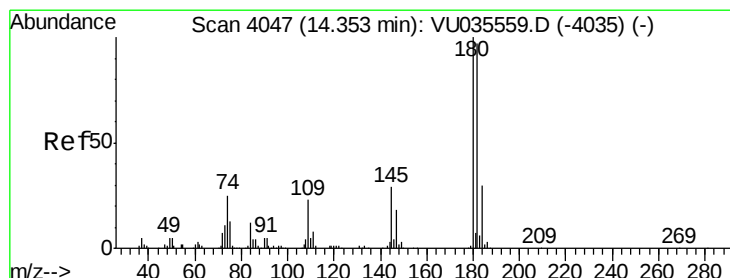
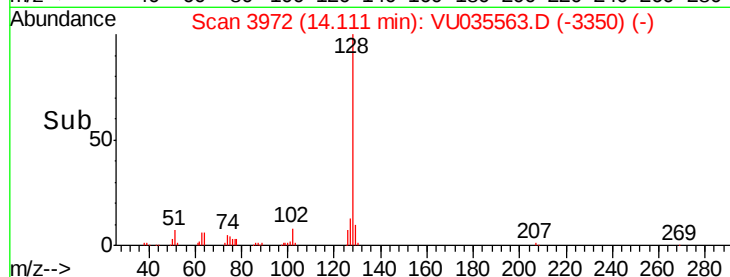
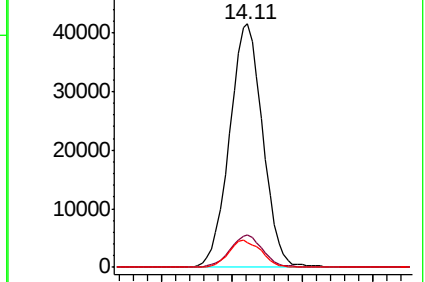
129 10.9 8.5 12.7



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: 11.052 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. -0.00 min

Lab File: VU035563.D

Acq: 30 Oct 2019 15:39

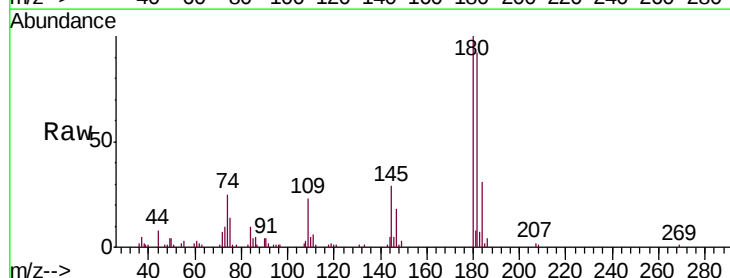
Tgt Ion:180 Resp: 30221

Ion Ratio Lower Upper

180 100

182 92.2 77.6 116.4

145 29.0 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

