

Data File : VU034679.D
Acq On : 20 Sep 2019 10:43
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

Quant Time: Sep 21 02:07:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 20 18:28:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	431556	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	413204	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	202050	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	214976	48.66	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.32%
7) Chloroethane-d5	1.67	69	176235	51.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.22%
11) 1,1-Dichloroethene-d2	2.26	63	392886	52.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.02%
21) 2-Butanone-d5	4.15	46	381620	112.70	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.70%
24) Chloroform-d	4.62	84	348720	54.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.58%
26) 1,2-Dichloroethane-d4	5.28	65	248300	52.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.18%
32) Benzene-d6	5.32	84	688535	53.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.52%
36) 1,2-Dichloropropane-d6	6.31	67	241429	53.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	107.86%
41) Toluene-d8	7.54	98	657726	53.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.96%
43) trans-1,3-Dichloropropene-	7.83	79	118467	55.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	110.52%
47) 2-Hexanone-d5	8.29	63	243520	108.31	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.31%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	330059	53.14	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	106.28%
64) 1,2-Dichlorobenzene-d4	11.84	152	224307	52.94	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.88%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	248430	55.853 ug/L	99
3) Chloromethane	1.32	50	285882	53.657 ug/L	99
5) Vinyl chloride	1.40	62	261075	53.651 ug/L	99
6) Bromomethane	1.62	94	141821	53.363 ug/L	94
8) Chloroethane	1.69	64	155228	55.411 ug/L	96
9) Trichlorofluoromethane	1.87	101	335586	54.694 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	165938	56.405 ug/L	99
12) 1,1-Dichloroethene	2.27	96	159681	56.554 ug/L	96
13) Acetone	2.31	43	406446	103.191 ug/L	99
14) Carbon disulfide	2.46	76	534835	56.140 ug/L	99
15) Methyl Acetate	2.60	43	290519	55.217 ug/L	99
16) Methylene chloride	2.68	84	195105	54.551 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	169564	54.928 ug/L	97
18) Methyl tert-butyl Ether	2.98	73	639571	55.844 ug/L	99
19) 1,1-Dichloroethane	3.42	63	395148	55.798 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	199971	55.401 ug/L	100
22) 2-Butanone	4.23	43	486269	103.773 ug/L	100

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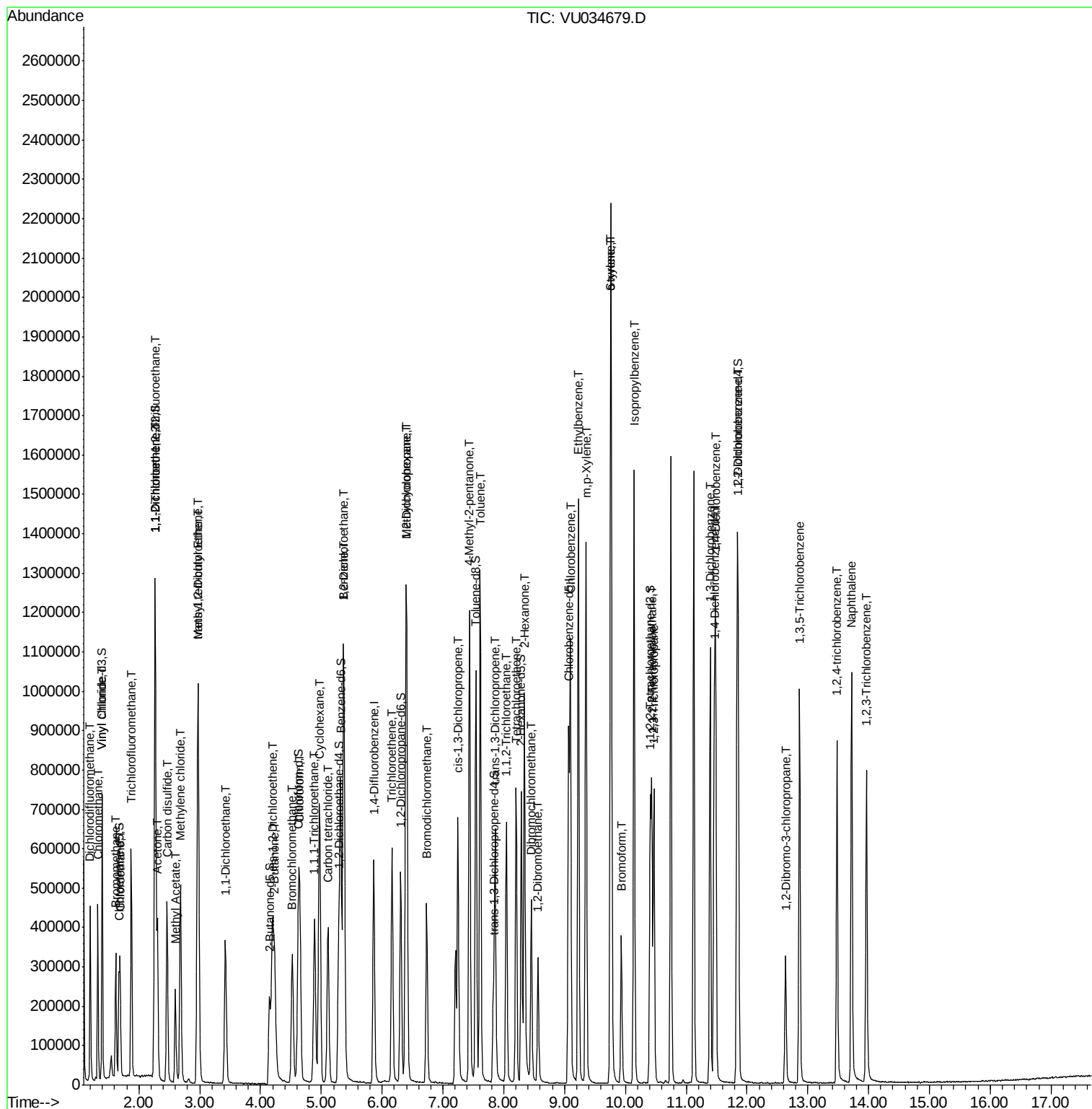
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	95844	55.475	ug/L	98
25) Chloroform	4.65	83	369976	53.054	ug/L	98
27) 1,2-Dichloroethane	5.38	62	325942	54.107	ug/L	97
29) Cyclohexane	4.97	56	386786	56.712	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	309398	55.015	ug/L	97
31) Carbon tetrachloride	5.11	117	269926	56.316	ug/L	99
33) Benzene	5.36	78	794829	55.462	ug/L	100
34) Trichloroethene	6.16	95	197986	55.940	ug/L	96
35) Methylcyclohexane	6.39	83	347473	57.853	ug/L	98
37) 1,2-Dichloropropane	6.41	63	234127	54.866	ug/L	100
38) Bromodichloromethane	6.73	83	282201	54.532	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	365883	57.065	ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	881526	108.205	ug/L	98
42) Toluene	7.61	91	866676	55.959	ug/L	98
44) trans-1,3-Dichloropropene	7.86	75	330085	57.107	ug/L	100
45) 1,1,2-Trichloroethane	8.04	97	186227	54.483	ug/L	99
46) Tetrachloroethene	8.21	164	145859	58.588	ug/L	98
48) 2-Hexanone	8.34	43	682300	107.232	ug/L	97
49) Dibromochloromethane	8.45	129	216303	56.774	ug/L	96
50) 1,2-Dibromoethane	8.56	107	208727	56.660	ug/L	98
51) Chlorobenzene	9.10	112	521156	55.354	ug/L	99
52) Ethylbenzene	9.23	91	988142	56.658	ug/L	99
53) m,p-Xylene	9.35	106	352950	57.136	ug/L	95
54) o-xylene	9.76	106	349335	57.175	ug/L	98
55) Styrene	9.77	104	589699	57.018	ug/L	99
56) Isopropylbenzene	10.14	105	936602	56.852	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.43	83	355404	54.136	ug/L	99
59) 1,2,3-Trichloropropane	10.47	75	283768	53.243	ug/L	99
61) Bromoform	9.94	173	156574	56.283	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	399194	57.051	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	402054	56.406	ug/L	98
65) 1,2-Dichlorobenzene	11.85	146	394357	55.779	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.64	75	83187	55.356	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	279632	59.645	ug/L	96
68) 1,2,4-trichlorobenzene	13.48	180	232842	63.157	ug/L	99
69) Naphthalene	13.72	128	788073	61.747	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	227323	59.924	ug/L	96

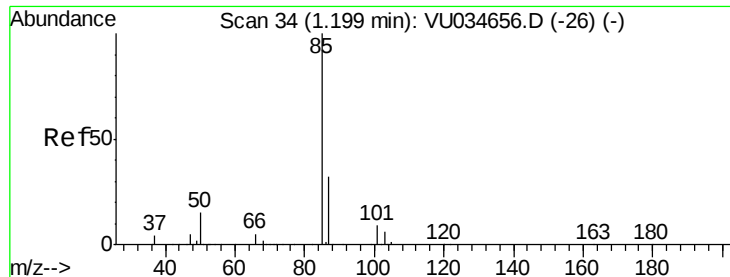
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 55.853 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

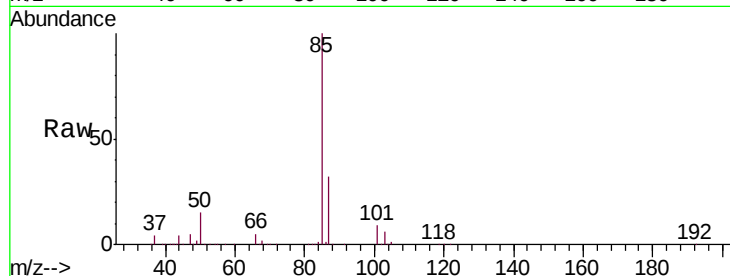
VSTD05060

Tgt Ion: 85 Resp: 248430

Ion Ratio Lower Upper

85 100

87 32.4 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU034656.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU034656.D (-26) (-)

1.20

250000

200000

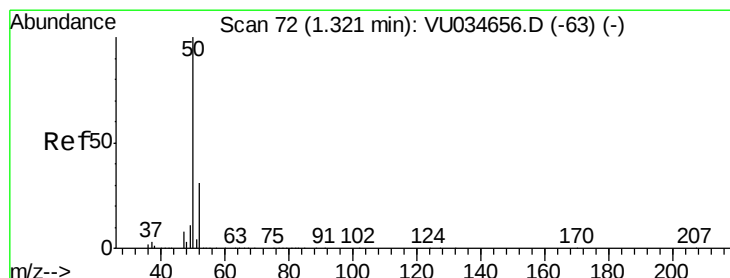
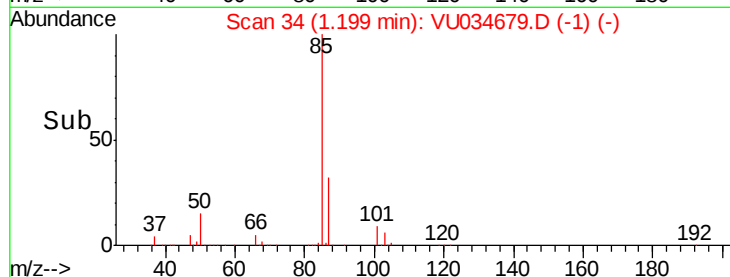
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 53.657 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034679.D

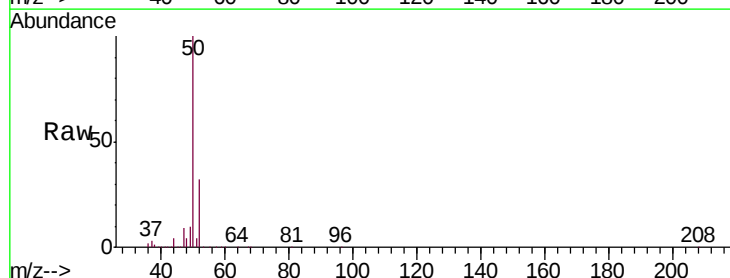
Acq: 20 Sep 2019 10:43

Tgt Ion: 50 Resp: 285882

Ion Ratio Lower Upper

50 100

52 31.8 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU034656.D (-63) (-)

Ion 52.00 (51.70 to 52.70): VU034656.D (-63) (-)

1.32

300000

250000

200000

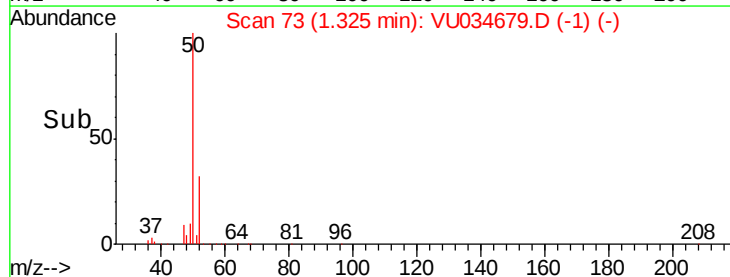
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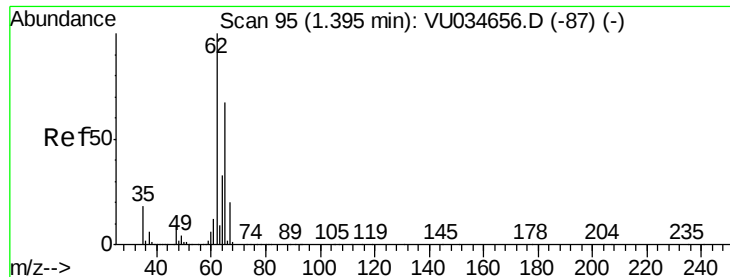
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 53.651 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

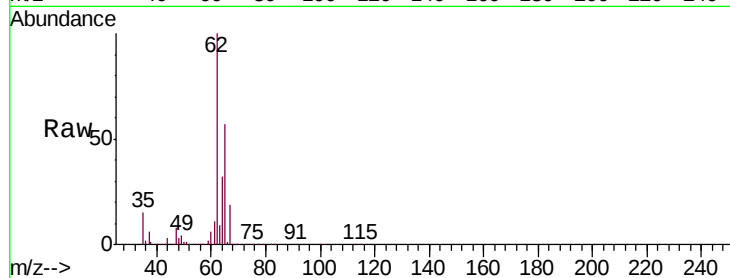
VSTD05060

Tgt Ion: 62 Resp: 261075

Ion Ratio Lower Upper

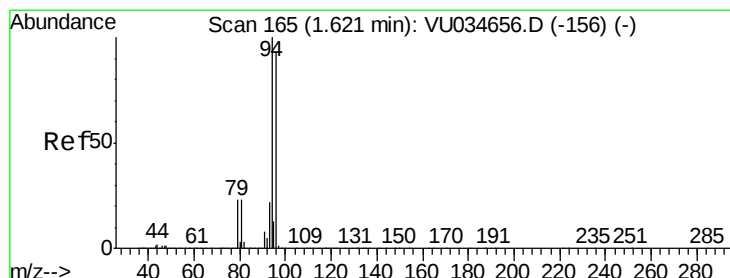
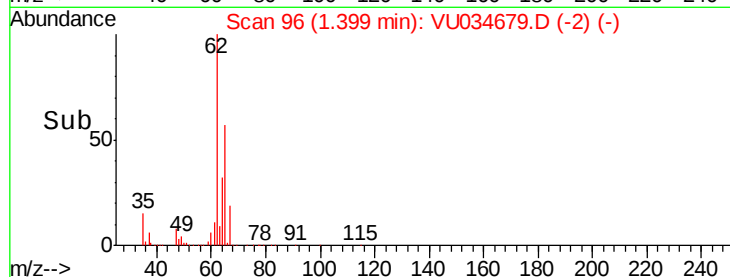
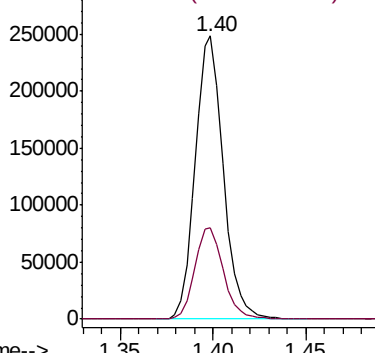
62 100

64 32.3 22.2 41.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 53.363 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU034679.D

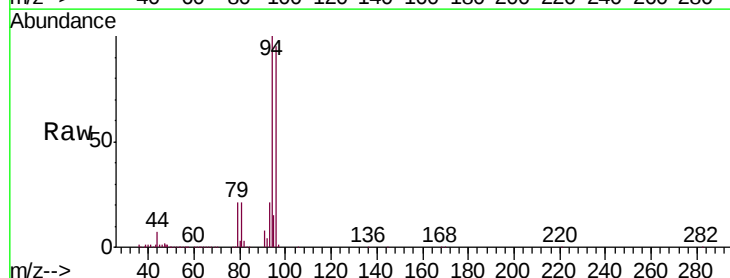
Acq: 20 Sep 2019 10:43

Tgt Ion: 94 Resp: 141821

Ion Ratio Lower Upper

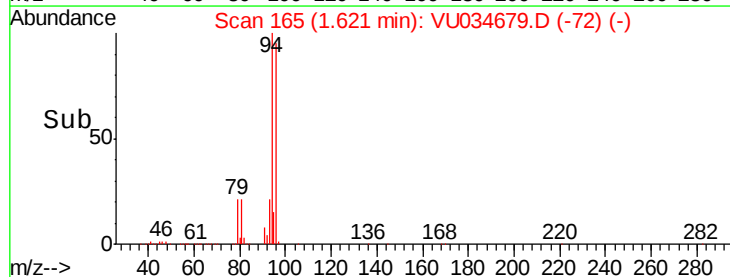
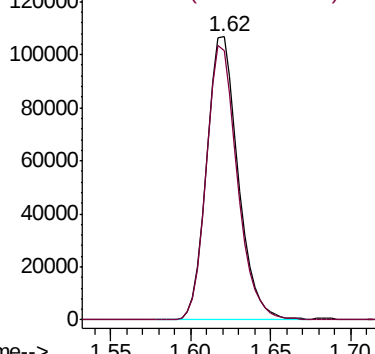
94 100

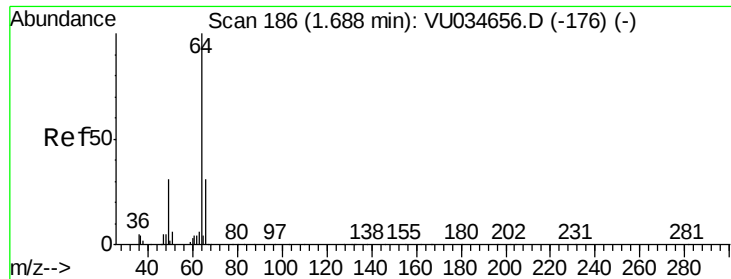
96 95.0 62.8 116.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 55.411 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

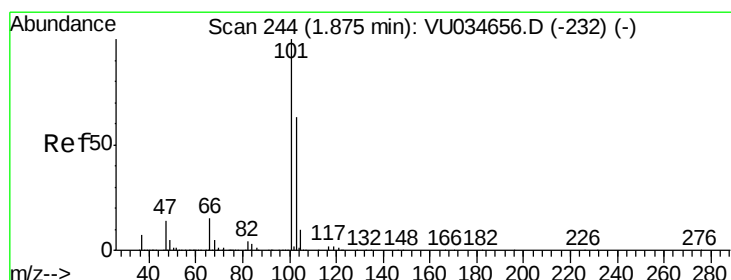
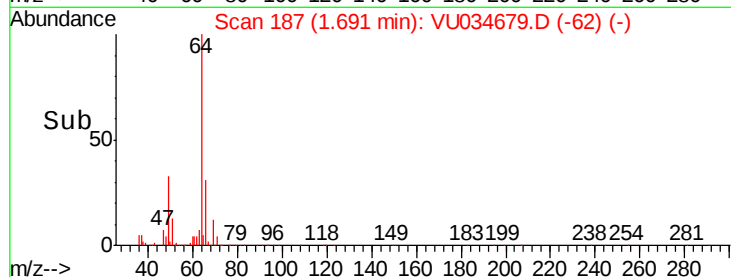
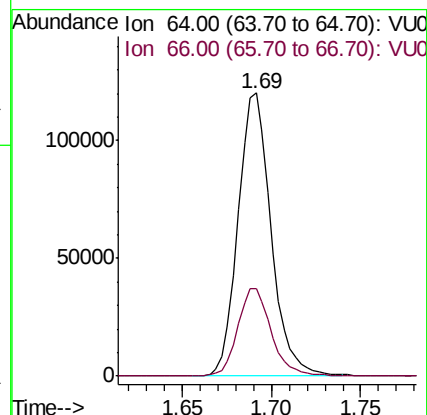
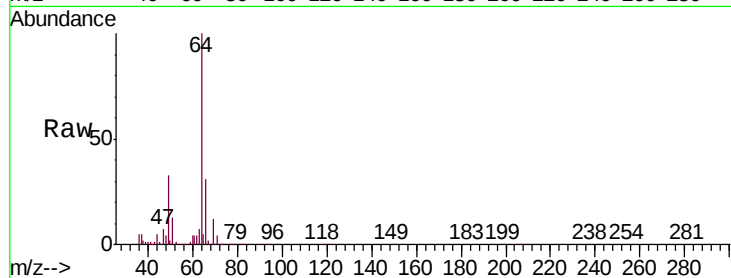
VSTD05060

Tgt Ion: 64 Resp: 155228

Ion Ratio Lower Upper

64 100

66 30.8 23.1 42.9



#9

Trichlorofluoromethane

Concen: 54.694 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU034679.D

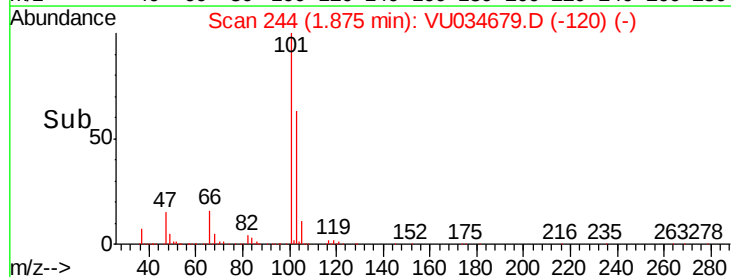
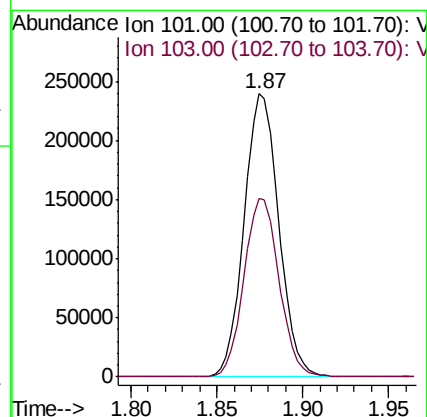
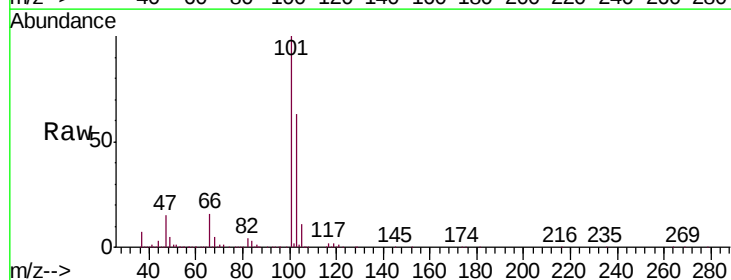
Acq: 20 Sep 2019 10:43

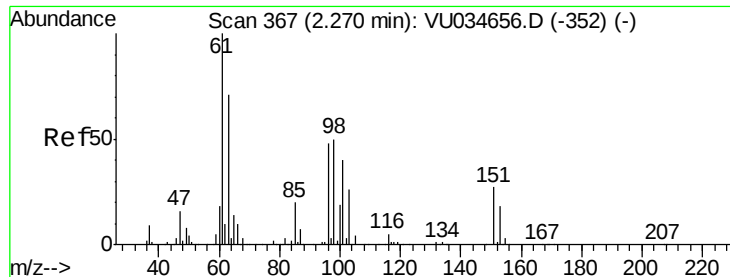
Tgt Ion: 101 Resp: 335586

Ion Ratio Lower Upper

101 100

103 63.7 51.8 77.8





#10

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

Concen: 56.405 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

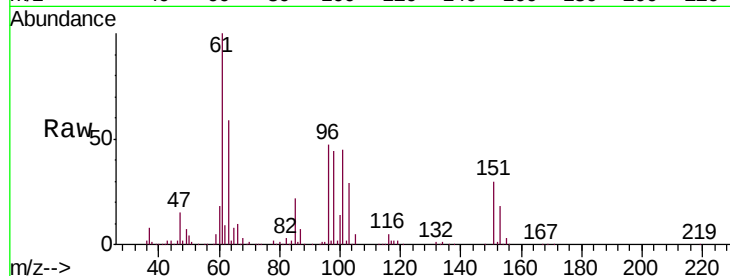
Tgt Ion: 101 Resp: 165938

Ion Ratio Lower Upper

101 100

85 48.8 39.0 58.4

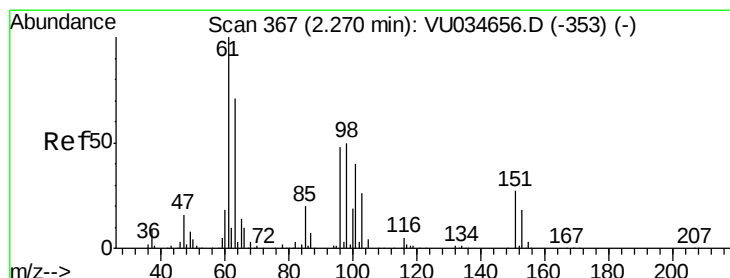
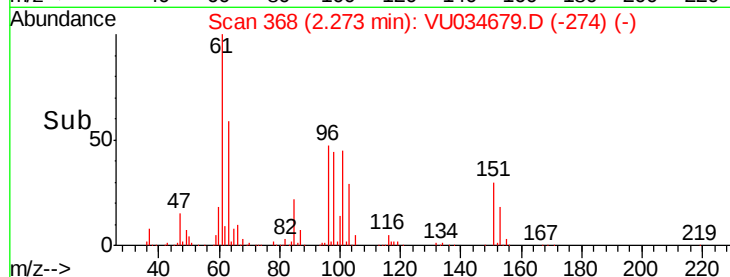
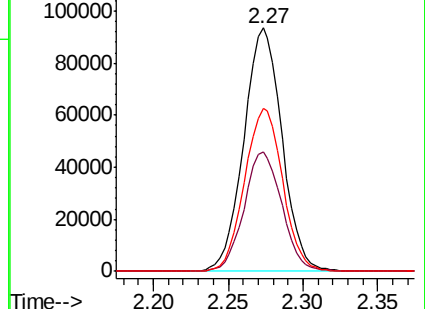
151 66.9 52.8 79.2



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: 56.554 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

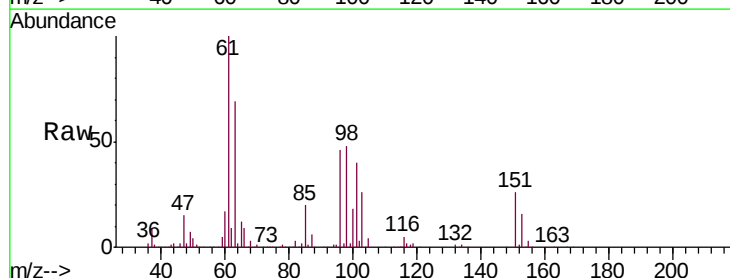
Tgt Ion: 96 Resp: 159681

Ion Ratio Lower Upper

96 100

61 218.5 153.2 284.4

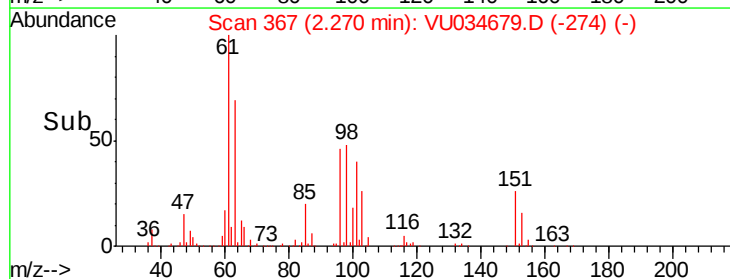
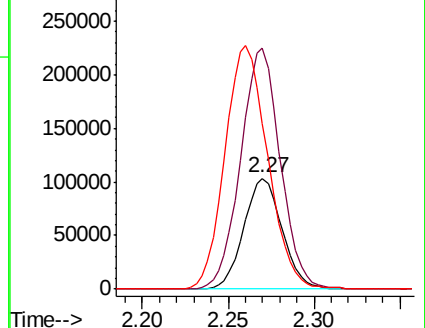
63 150.2 113.8 211.3

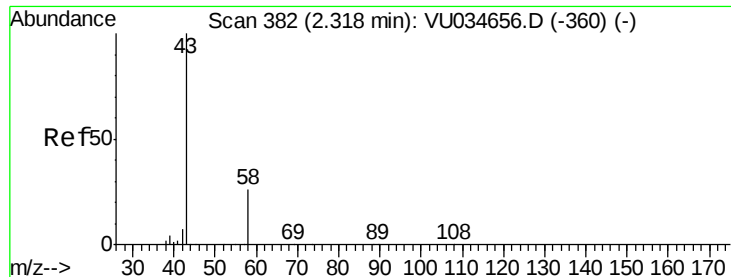


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 103.191 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

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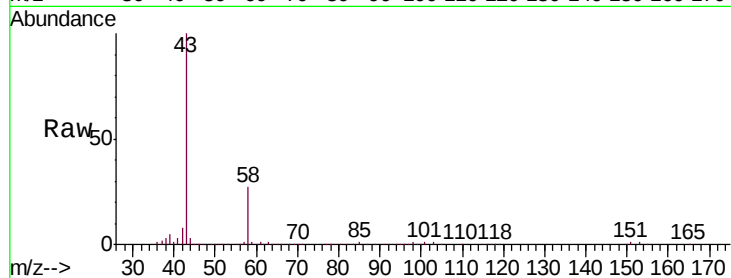
VSTD05060

Tgt Ion: 43 Resp: 406446

Ion Ratio Lower Upper

43 100

58 26.3 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU034656.D (-360) (-)

Ion 58.00 (57.70 to 58.70): VU034656.D (-360) (-)

2.31

250000

200000

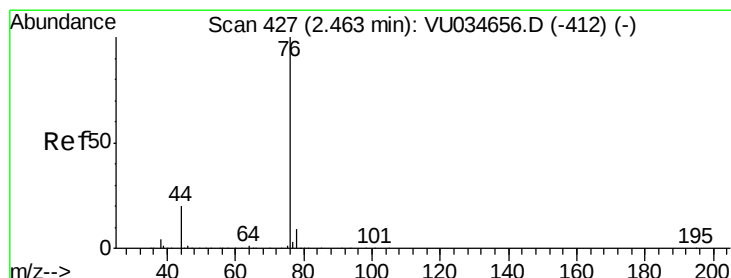
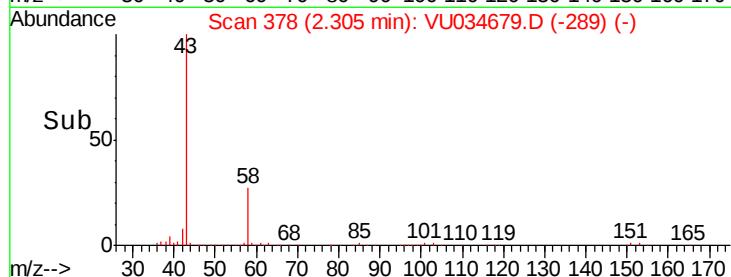
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 56.140 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034679.D

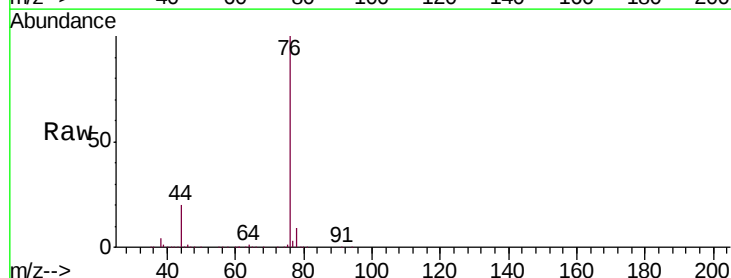
Acq: 20 Sep 2019 10:43

Tgt Ion: 76 Resp: 534835

Ion Ratio Lower Upper

76 100

78 9.1 6.9 10.3



Abundance Ion 76.00 (75.70 to 76.70): VU034656.D (-412) (-)

Ion 78.00 (77.70 to 78.70): VU034656.D (-412) (-)

2.46

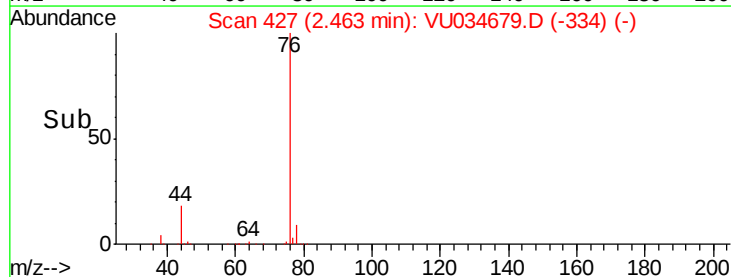
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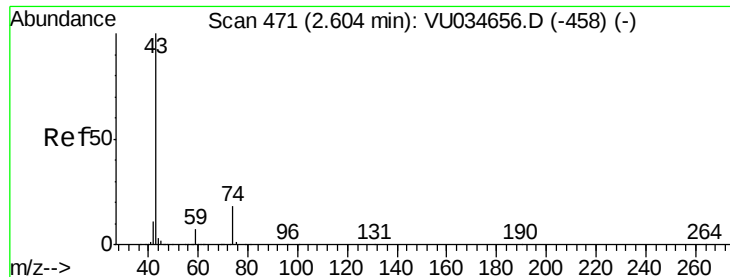
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Time-->

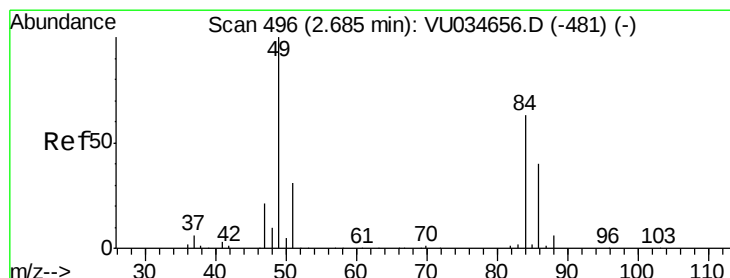
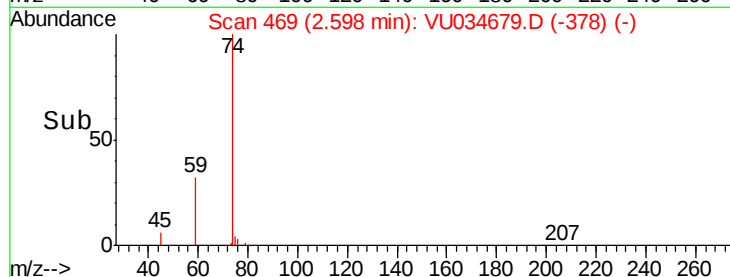
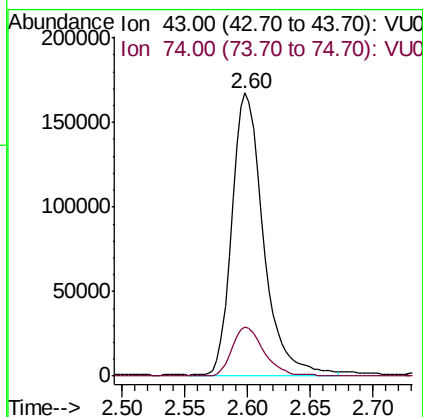
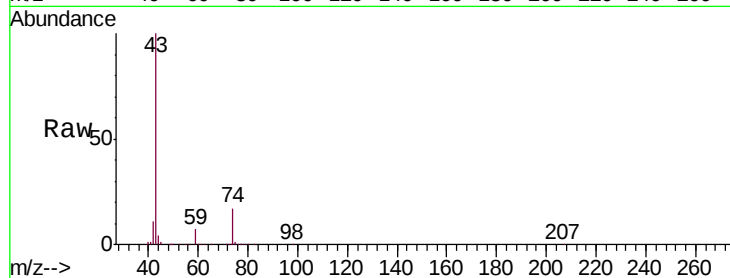




#15
Methyl Acetate
Concen: 55.217 ug/L
RT: 2.60 min Scan# 469
Delta R.T. -0.01 min
Lab File: VU034679.D
Acq: 20 Sep 2019 10:43

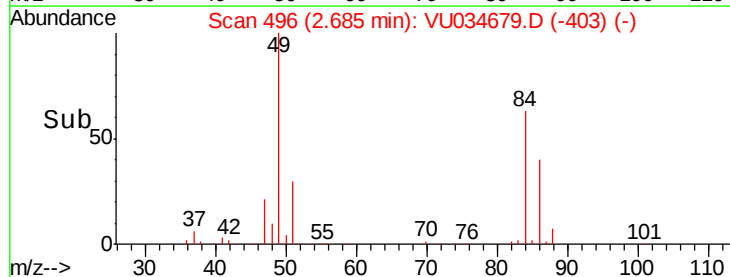
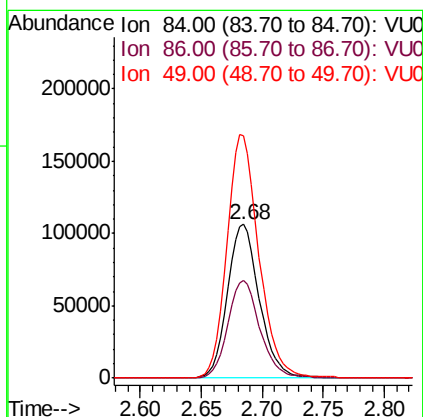
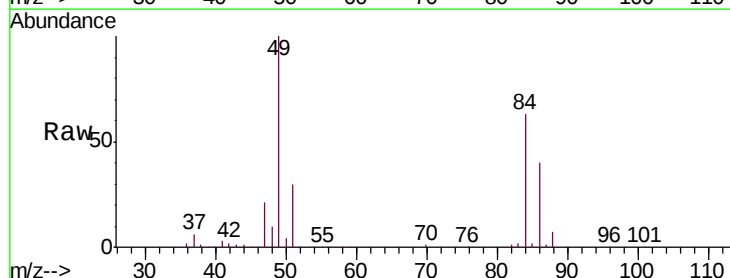
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

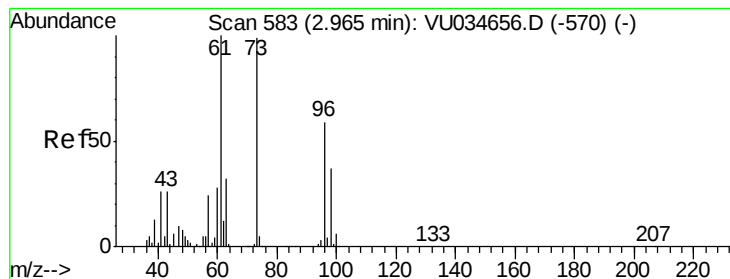
Tgt Ion: 43 Resp: 290519
Ion Ratio Lower Upper
43 100
74 17.6 14.4 21.6



#16
Methylene chloride
Concen: 54.551 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034679.D
Acq: 20 Sep 2019 10:43

Tgt Ion: 84 Resp: 195105
Ion Ratio Lower Upper
84 100
86 63.4 43.0 80.0
49 158.0 109.7 203.7





#17

trans-1,2-Dichloroethene

Concen: 54.928 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

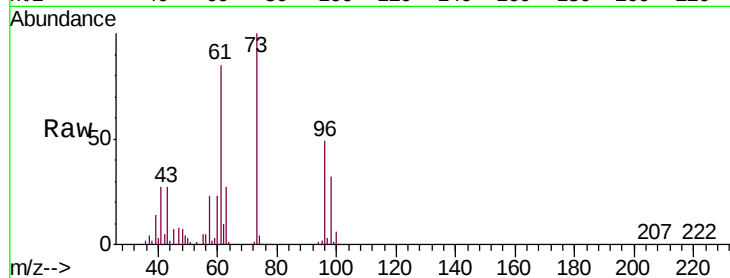
Tgt Ion: 96 Resp: 169564

Ion Ratio Lower Upper

96 100

61 171.8 124.0 230.4

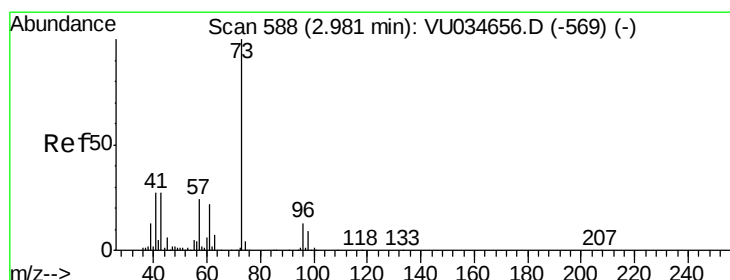
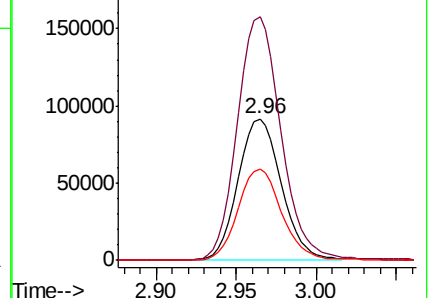
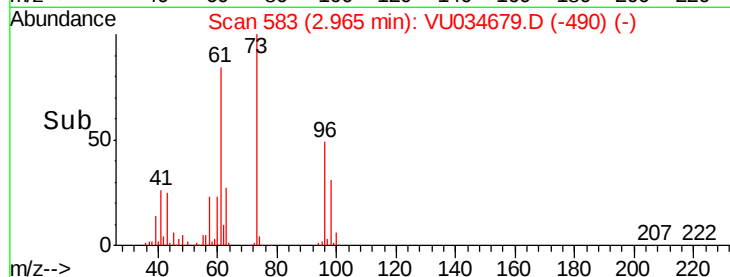
98 64.1 46.1 85.7



Abundance Ion 96.00 (95.70 to 96.70): VU034679.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU034679.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU034679.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 55.844 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

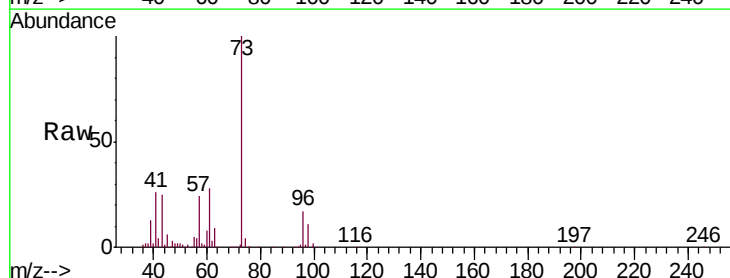
Tgt Ion: 73 Resp: 639571

Ion Ratio Lower Upper

73 100

43 25.8 20.9 31.3

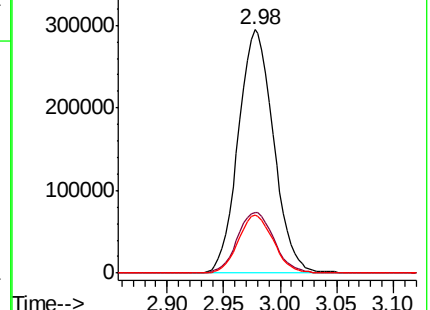
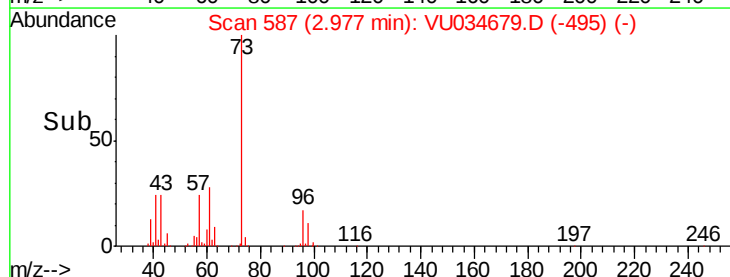
57 24.0 19.5 29.3

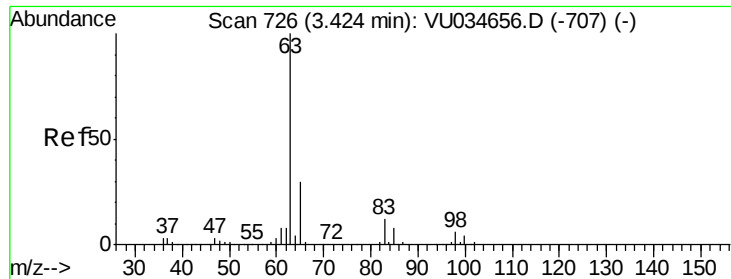


Abundance Ion 73.00 (72.70 to 73.70): VU034679.D (-495) (-)

Ion 43.00 (42.70 to 43.70): VU034679.D (-495) (-)

Ion 57.00 (56.70 to 57.70): VU034679.D (-495) (-)

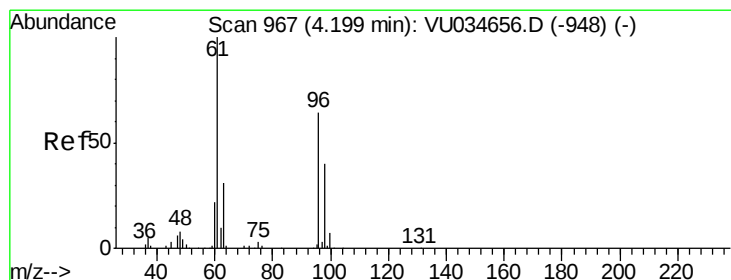
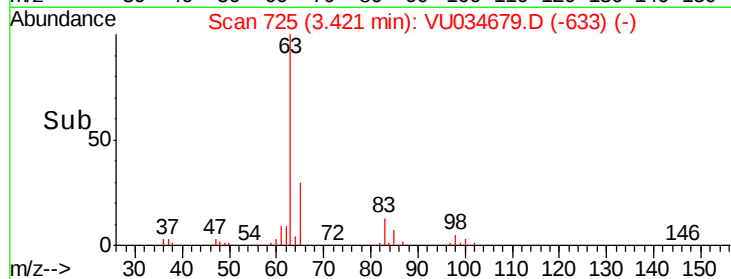
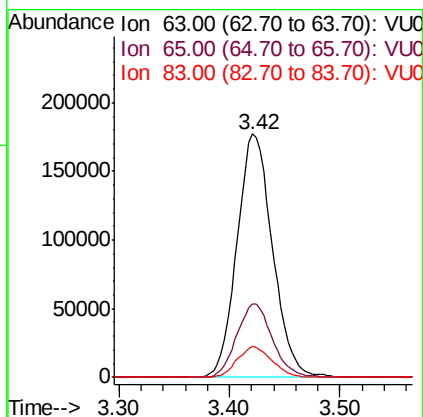
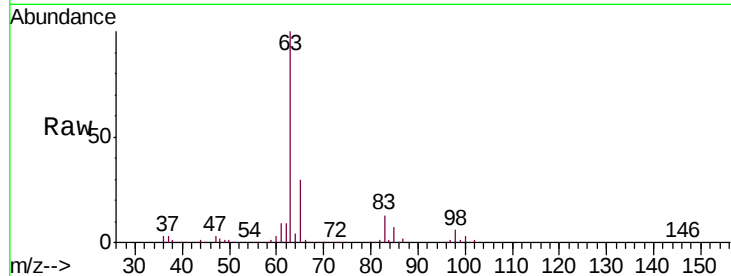




#19
 1,1-Dichloroethane
 Concen: 55.798 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU034679.D
 Acq: 20 Sep 2019 10:43

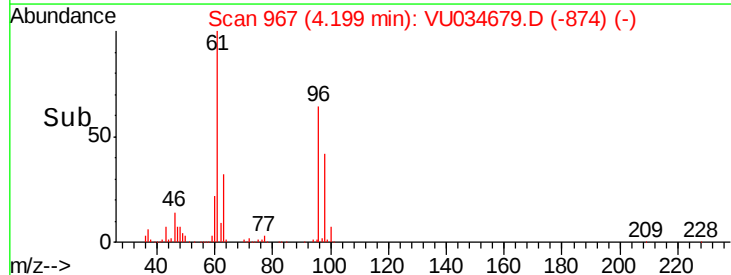
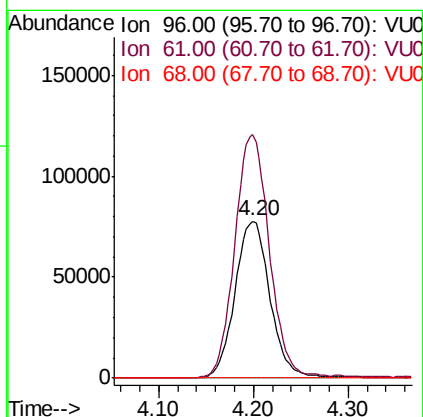
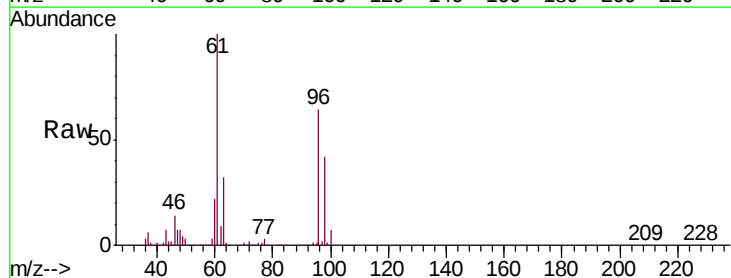
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

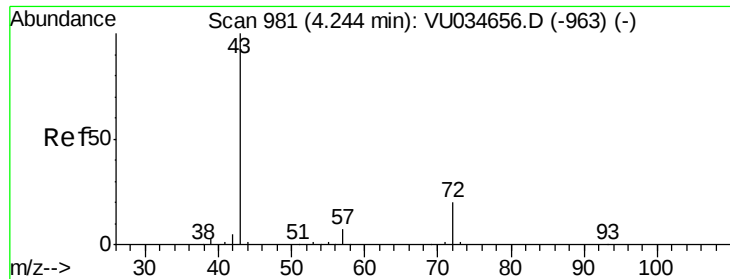
Tgt Ion: 63 Resp: 395148
 Ion Ratio Lower Upper
 63 100
 65 30.2 22.0 40.8
 83 12.5 8.9 16.5



#20
 cis-1,2-Dichloroethene
 Concen: 55.401 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU034679.D
 Acq: 20 Sep 2019 10:43

Tgt Ion: 96 Resp: 199971
 Ion Ratio Lower Upper
 96 100
 61 155.1 108.8 202.2
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 103.773 ug/L

RT: 4.23 min Scan# 978

Delta R.T. -0.01 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

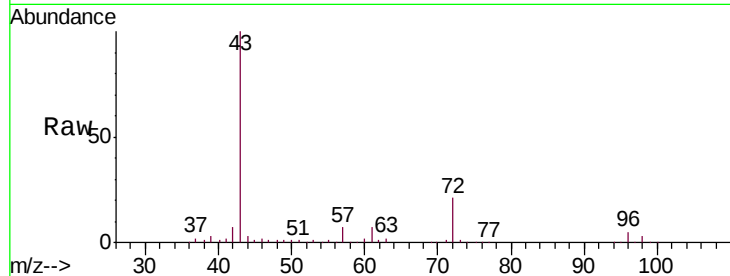
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

Tgt Ion: 43 Resp: 486269

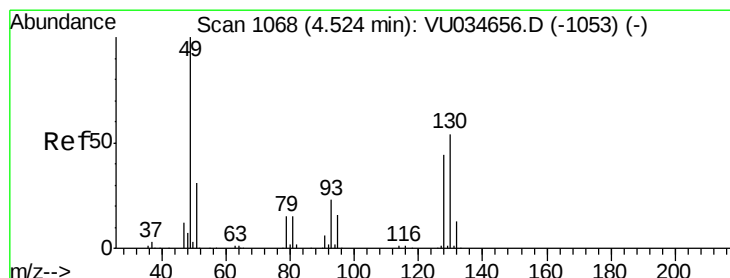
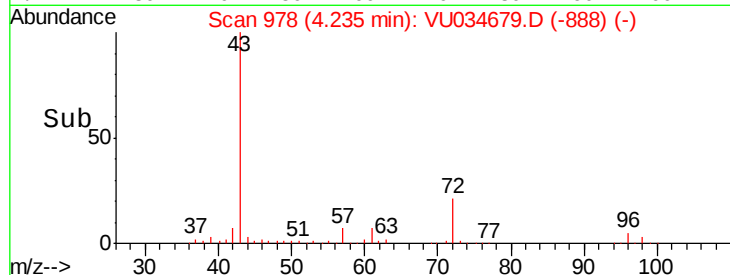
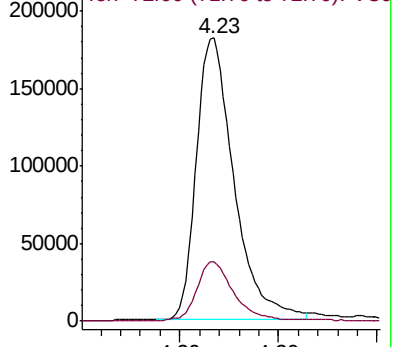
Ion Ratio Lower Upper

43 100

72 20.3 10.2 30.6



Abundance Ion 43.00 (42.70 to 43.70): VU034679.D (-978) (-)



#23

Bromochloromethane

Concen: 55.475 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Tgt Ion: 128 Resp: 95844

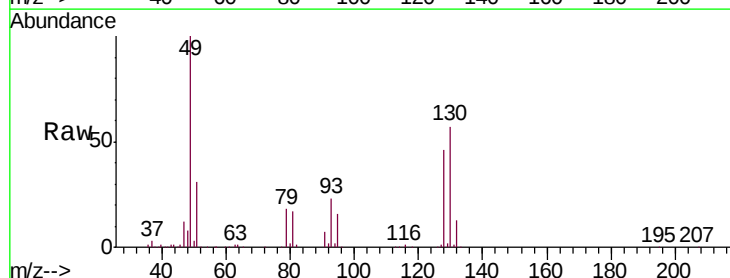
Ion Ratio Lower Upper

128 100

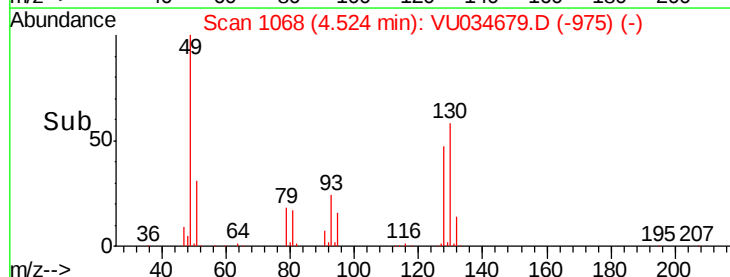
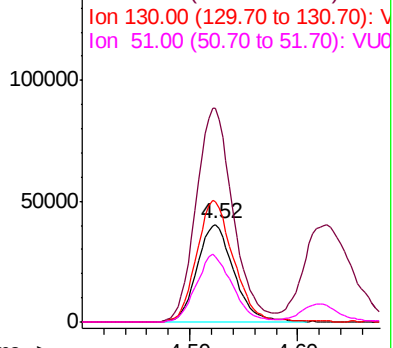
49 219.1 154.3 286.7

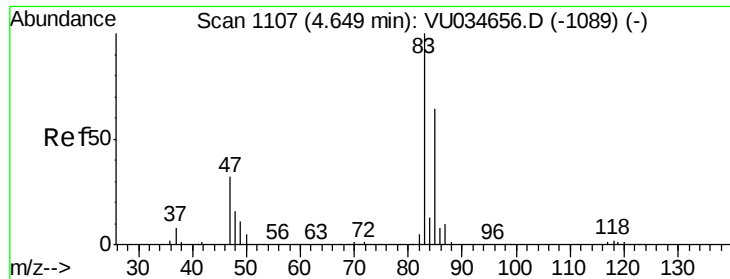
130 123.9 83.0 154.2

51 67.6 56.4 84.6



Abundance Ion 128.00 (127.70 to 128.70): VU034679.D (-1068) (-)

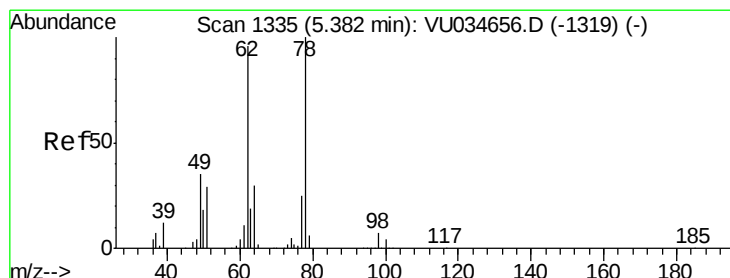
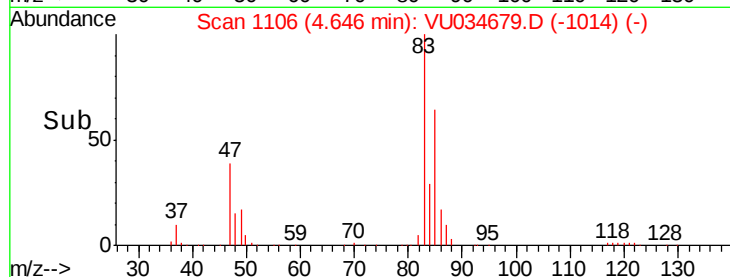
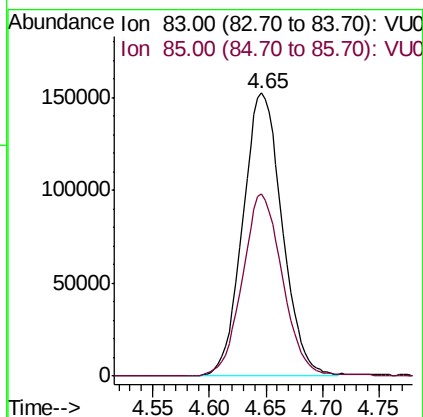
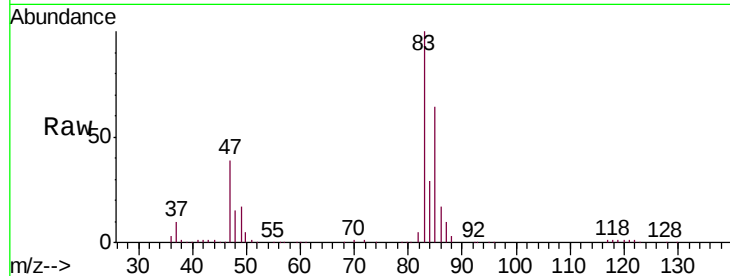




#25
Chloroform
Concen: 53.054 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU034679.D
Acq: 20 Sep 2019 10:43

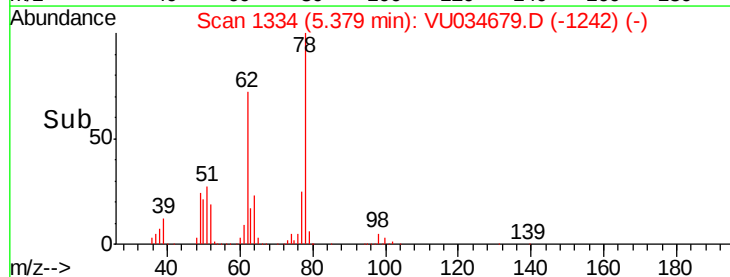
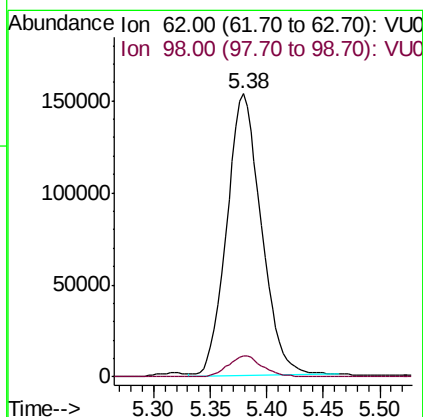
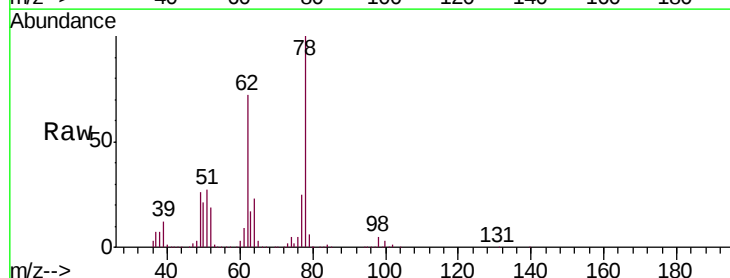
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

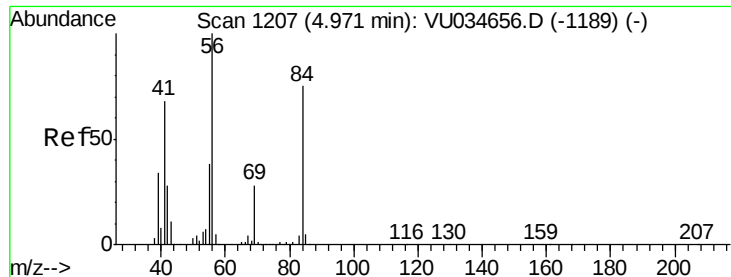
Tgt Ion: 83 Resp: 369976
Ion Ratio Lower Upper
83 100
85 64.4 44.0 81.6



#27
1,2-Dichloroethane
Concen: 54.107 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU034679.D
Acq: 20 Sep 2019 10:43

Tgt Ion: 62 Resp: 325942
Ion Ratio Lower Upper
62 100
98 7.5 5.3 7.9

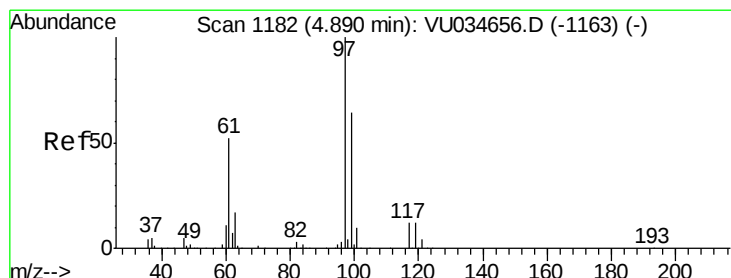
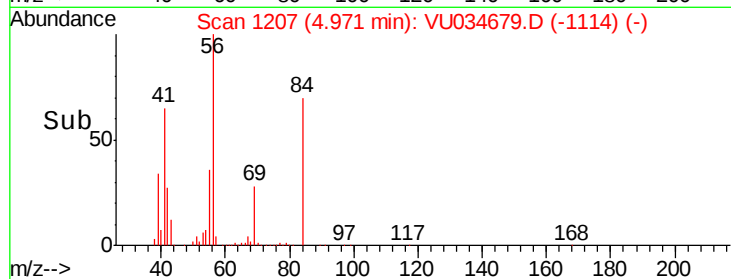
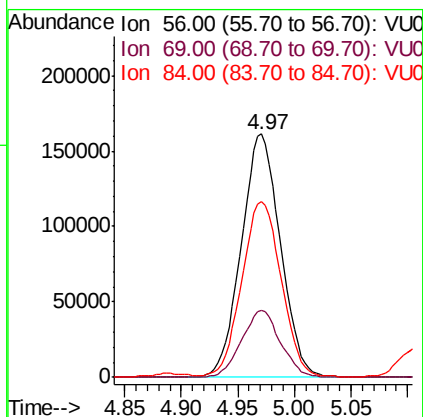
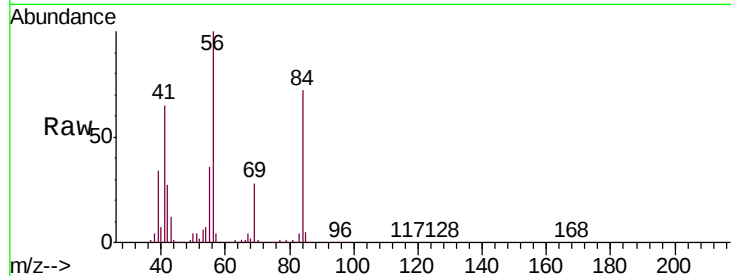




#29
Cyclohexane
Concen: 56.712 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU034679.D
Acq: 20 Sep 2019 10:43

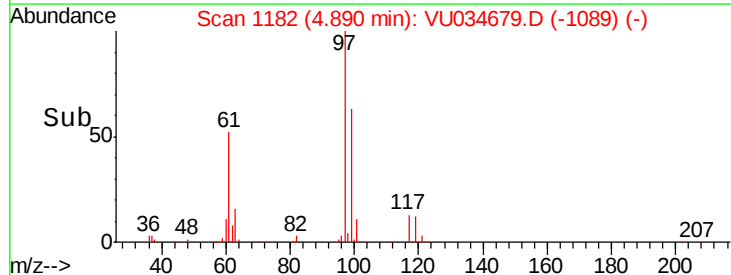
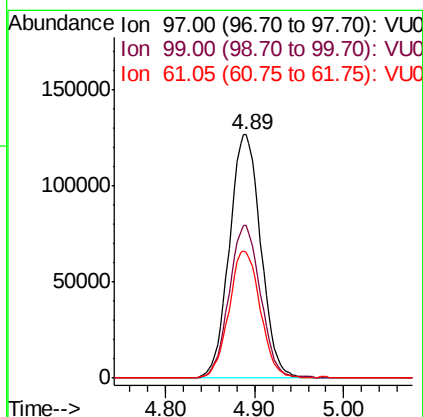
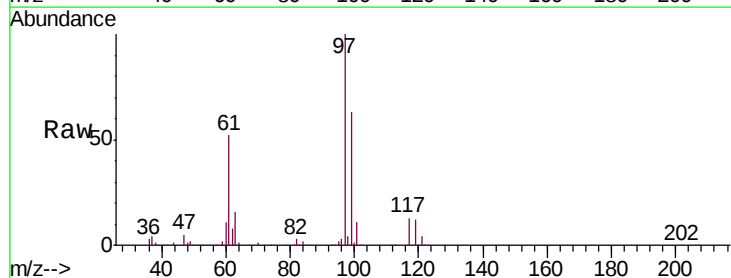
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

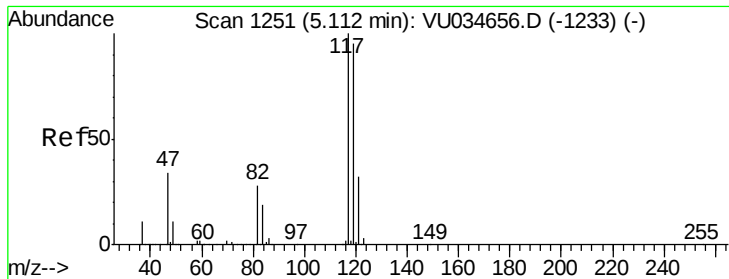
Tgt Ion: 56 Resp: 386786
Ion Ratio Lower Upper
56 100
69 27.3 21.7 32.5
84 72.9 58.8 88.2



#30
1,1,1-Trichloroethane
Concen: 55.015 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU034679.D
Acq: 20 Sep 2019 10:43

Tgt Ion: 97 Resp: 309398
Ion Ratio Lower Upper
97 100
99 62.5 51.8 77.8
61 51.6 43.4 65.0

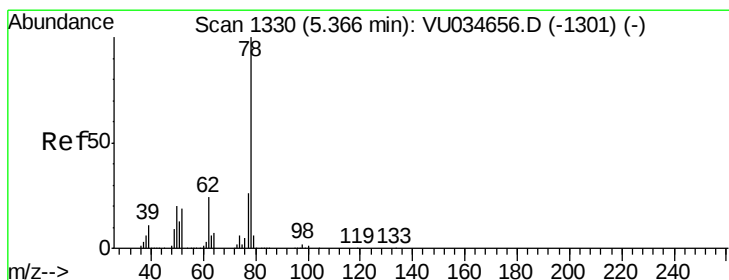
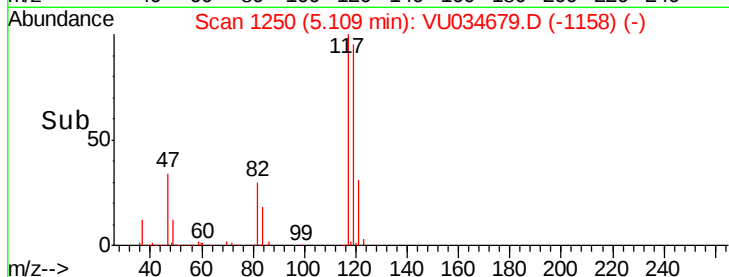
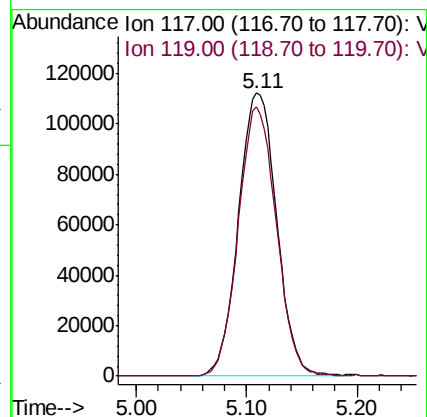
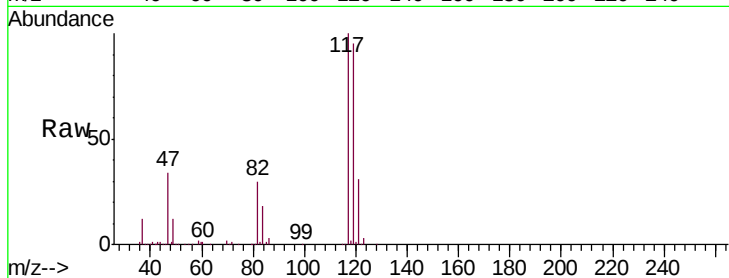




#31
Carbon tetrachloride
Concen: 56.316 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU034679.D
Acq: 20 Sep 2019 10:43

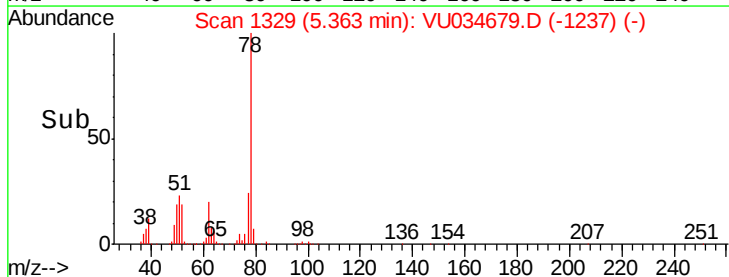
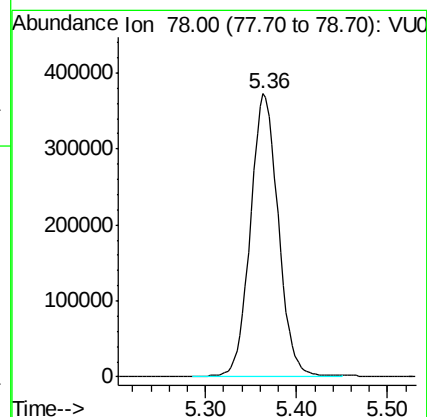
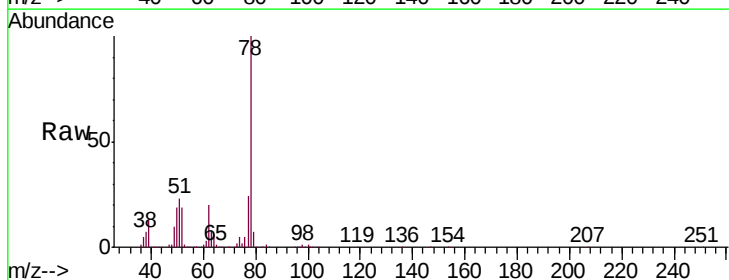
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

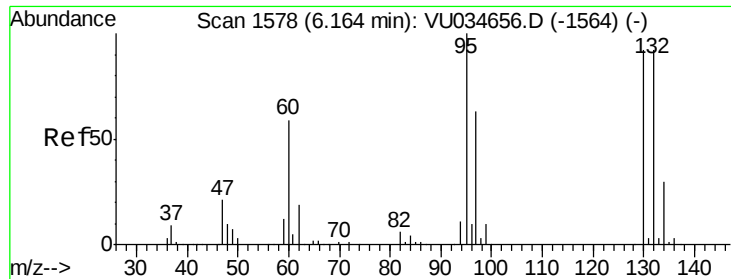
Tgt Ion:117 Resp: 269926
Ion Ratio Lower Upper
117 100
119 94.4 74.8 112.2



#33
Benzene
Concen: 55.462 ug/L
RT: 5.36 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VU034679.D
Acq: 20 Sep 2019 10:43

Tgt Ion: 78 Resp: 794829





#34

Trichloroethene

Concen: 55.940 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

Tgt Ion: 95 Resp: 197986

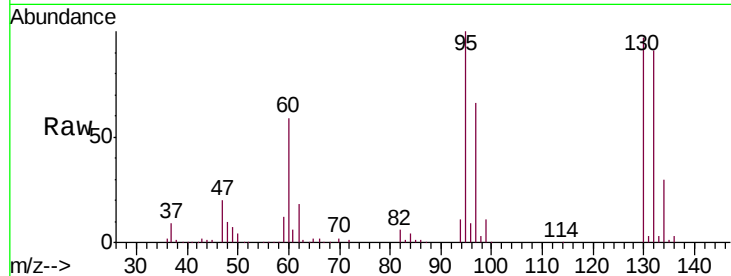
Ion Ratio Lower Upper

95 100

97 66.5 43.7 81.1

132 91.4 61.0 113.2

130 96.8 65.7 121.9

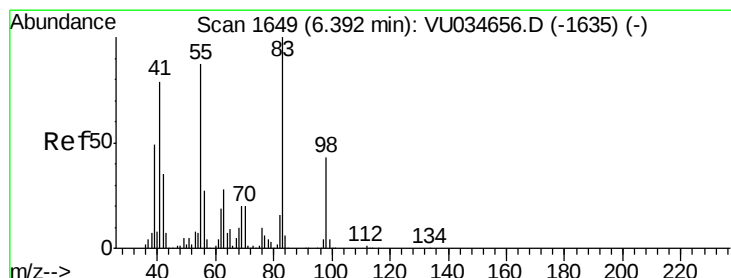
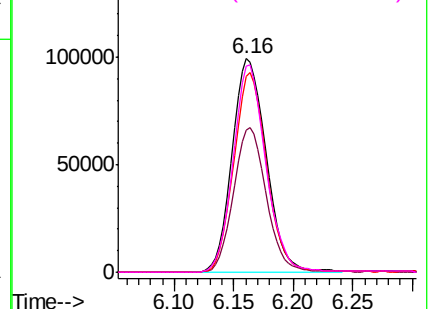
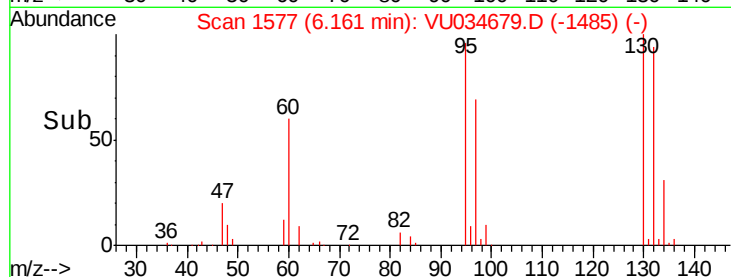


Abundance Ion 95.00 (94.70 to 95.70): VU034679.D (-1564) (-)

Ion 97.00 (96.70 to 97.70): VU034679.D (-1564) (-)

Ion 132.00 (131.70 to 132.70): VU034679.D (-1564) (-)

Ion 130.00 (129.70 to 130.70): VU034679.D (-1564) (-)



#35

Methylcyclohexane

Concen: 57.853 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

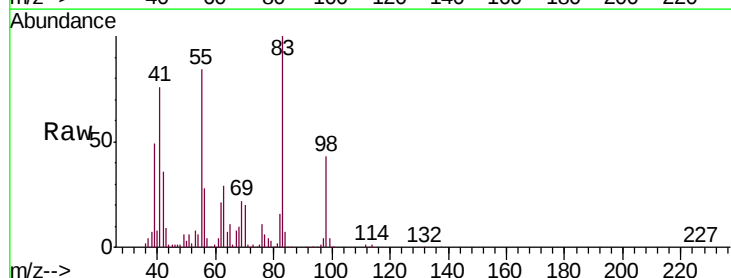
Tgt Ion: 83 Resp: 347473

Ion Ratio Lower Upper

83 100

55 86.7 71.6 107.4

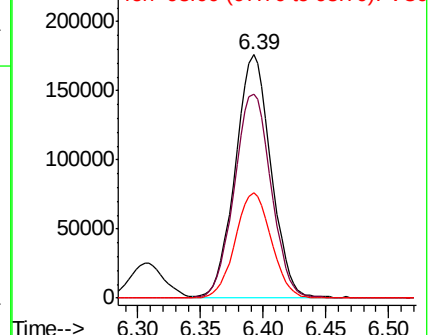
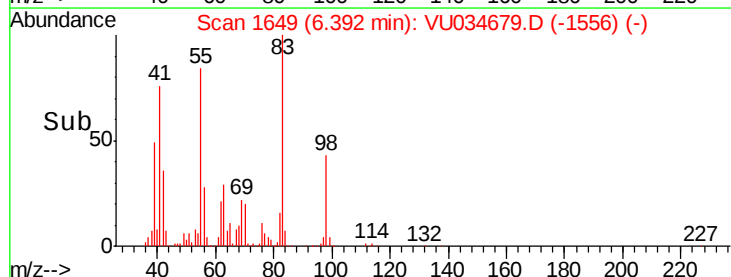
98 43.8 35.7 53.5

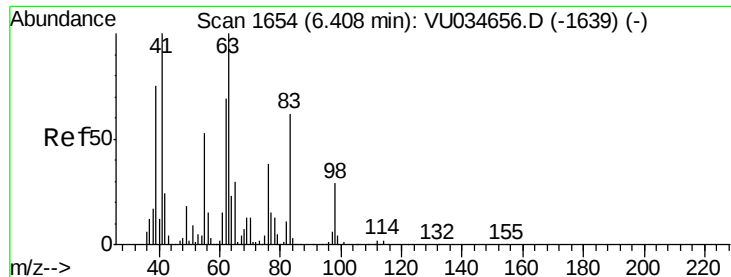


Abundance Ion 83.00 (82.70 to 83.70): VU034679.D (-1556) (-)

Ion 55.00 (54.70 to 55.70): VU034679.D (-1556) (-)

Ion 98.00 (97.70 to 98.70): VU034679.D (-1556) (-)

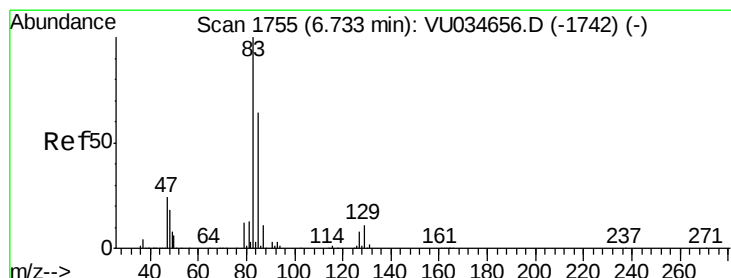
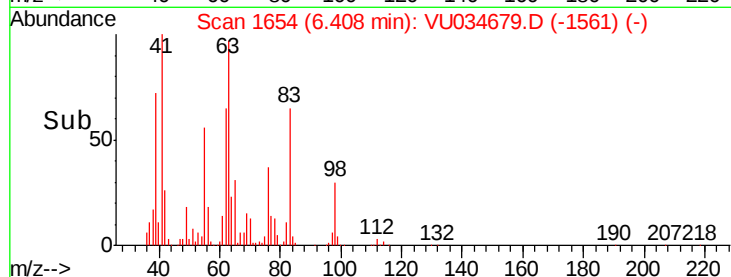
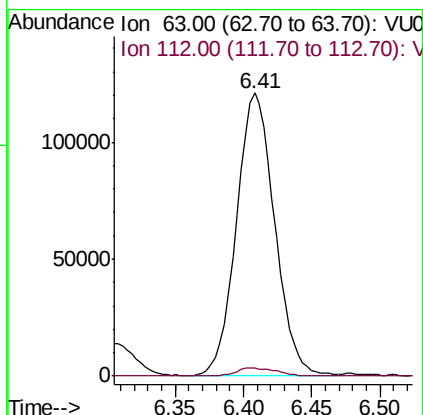
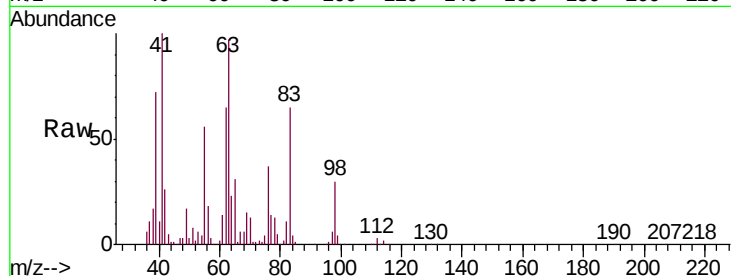




#37
 1,2-Dichloropropane
 Concen: 54.866 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. 0.00 min
 Lab File: VU034679.D
 Acq: 20 Sep 2019 10:43

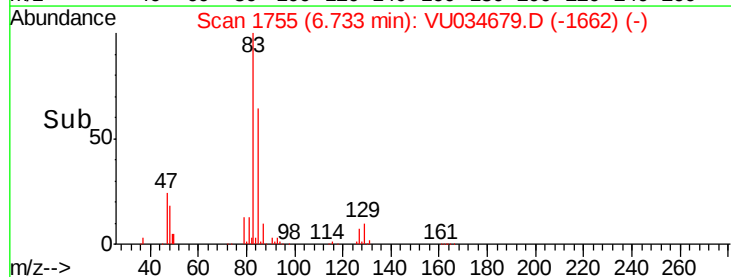
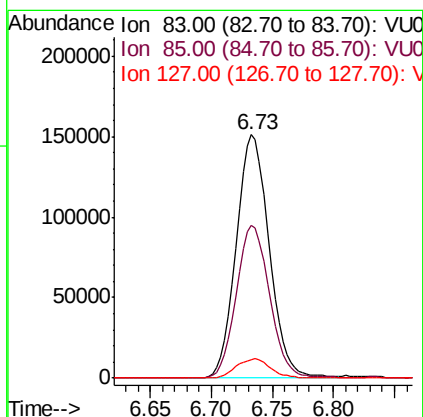
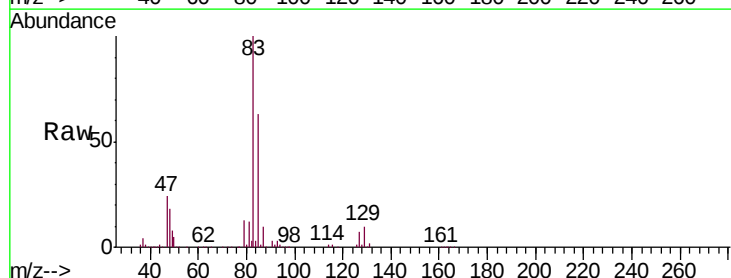
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

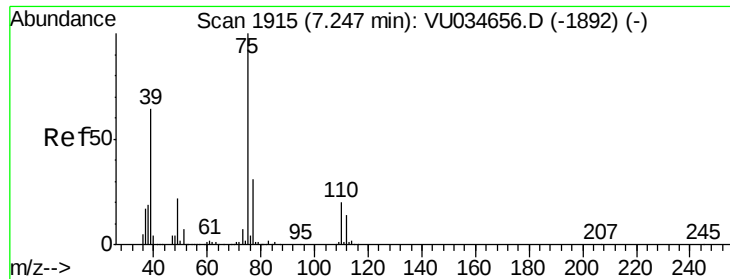
Tgt Ion: 63 Resp: 234127
 Ion Ratio Lower Upper
 63 100
 112 3.1 2.4 3.6



#38
 Bromodichloromethane
 Concen: 54.532 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. 0.00 min
 Lab File: VU034679.D
 Acq: 20 Sep 2019 10:43

Tgt Ion: 83 Resp: 282201
 Ion Ratio Lower Upper
 83 100
 85 62.9 45.5 84.5
 127 7.4 6.1 9.1

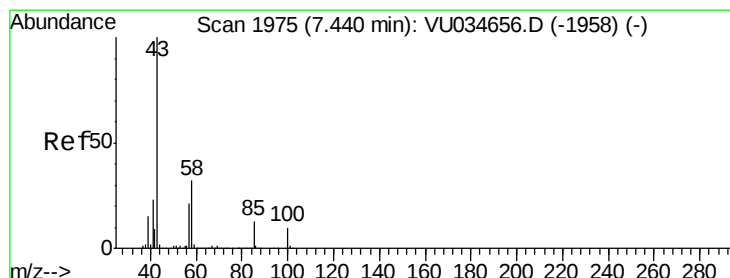
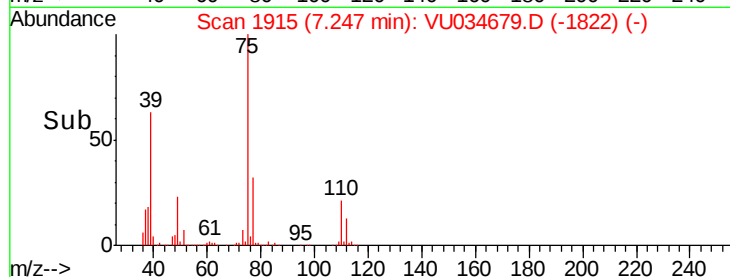
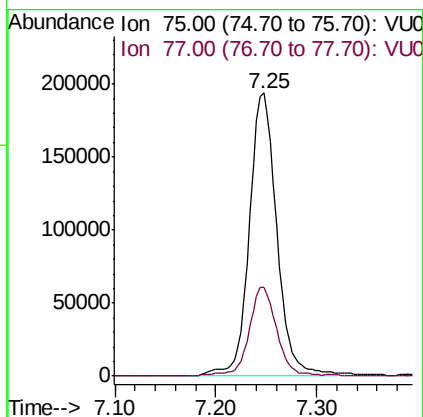
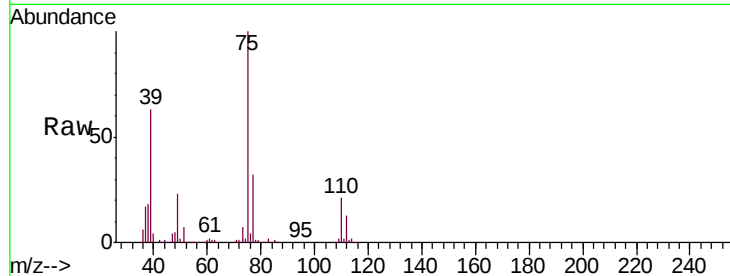




#39
 cis-1,3-Dichloropropene
 Concen: 57.065 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VU034679.D
 Acq: 20 Sep 2019 10:43

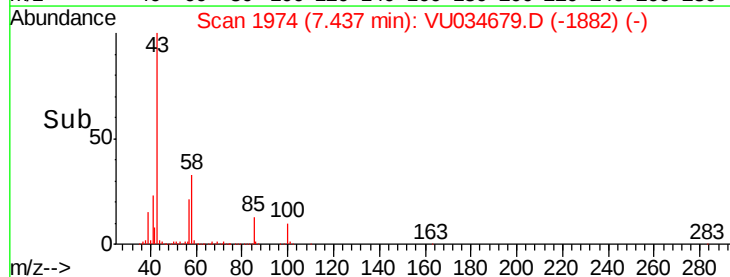
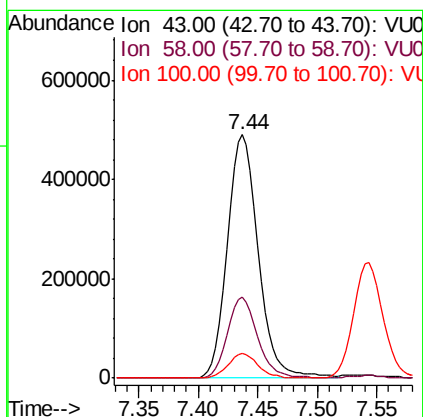
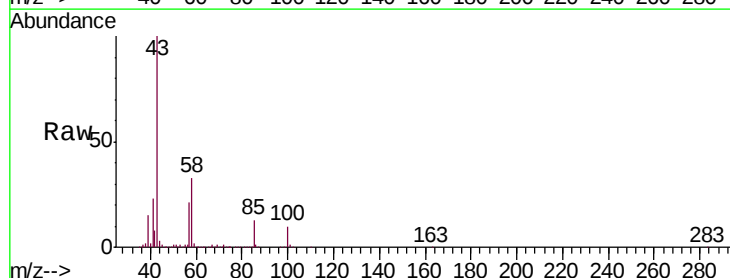
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

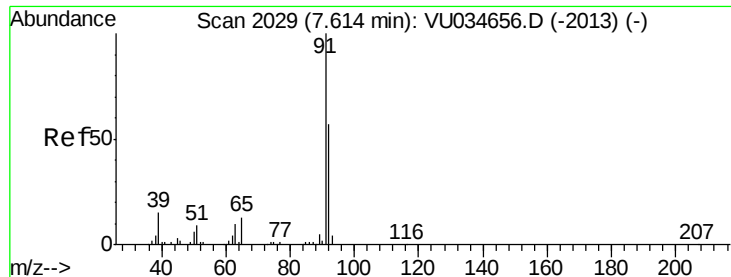
Tgt Ion: 75 Resp: 365883
 Ion Ratio Lower Upper
 75 100
 77 31.5 21.4 39.8



#40
 4-Methyl-2-pentanone
 Concen: 108.205 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VU034679.D
 Acq: 20 Sep 2019 10:43

Tgt Ion: 43 Resp: 881526
 Ion Ratio Lower Upper
 43 100
 58 32.7 25.2 37.8
 100 9.7 7.7 11.5





#42

Toluene

Concen: 55.959 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

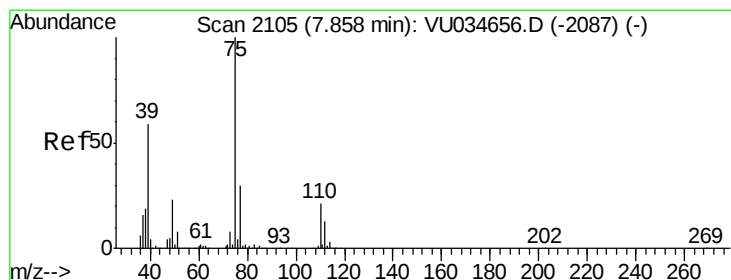
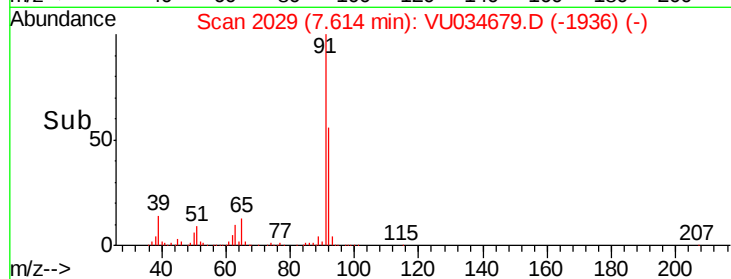
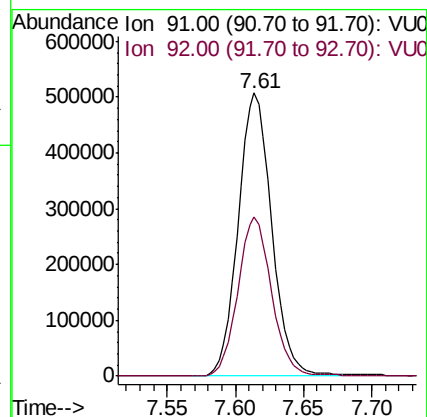
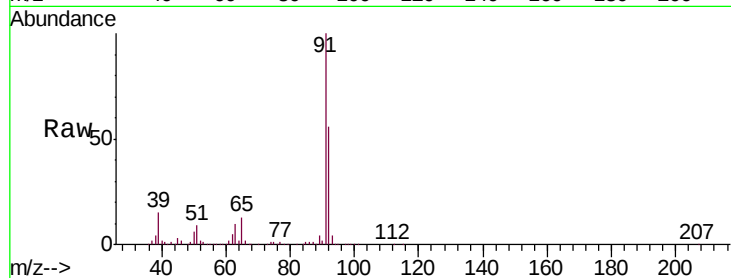
VSTD05060

Tgt Ion: 91 Resp: 866676

Ion Ratio Lower Upper

91 100

92 56.1 38.2 71.0



#44

trans-1,3-Dichloropropene

Concen: 57.107 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VU034679.D

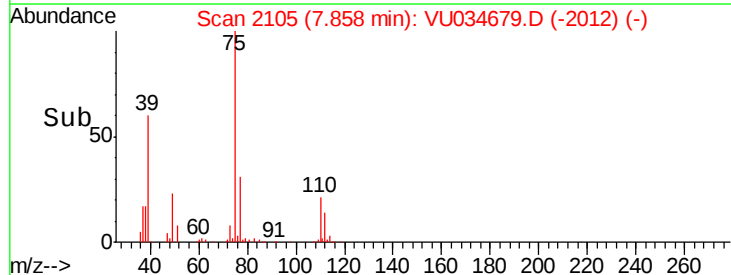
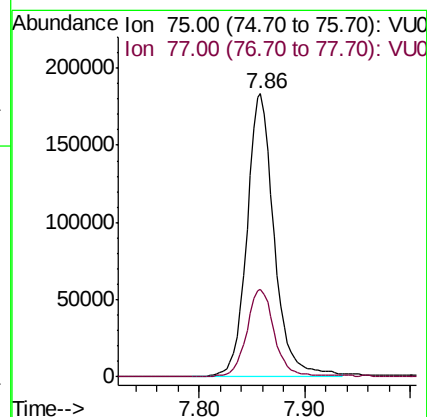
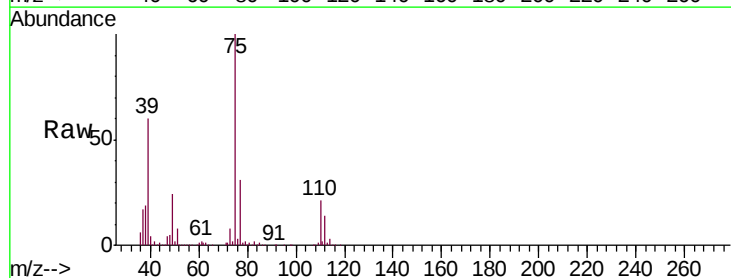
Acq: 20 Sep 2019 10:43

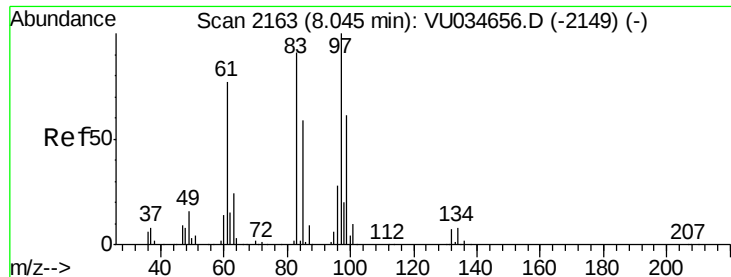
Tgt Ion: 75 Resp: 330085

Ion Ratio Lower Upper

75 100

77 30.8 21.4 39.8

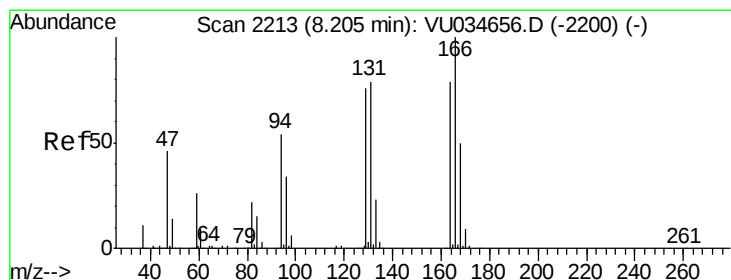
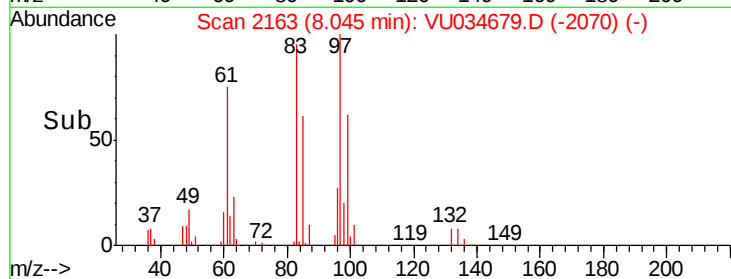
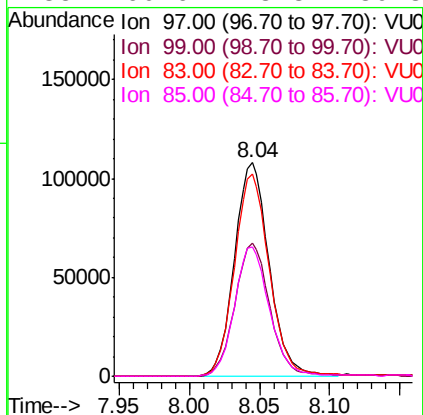
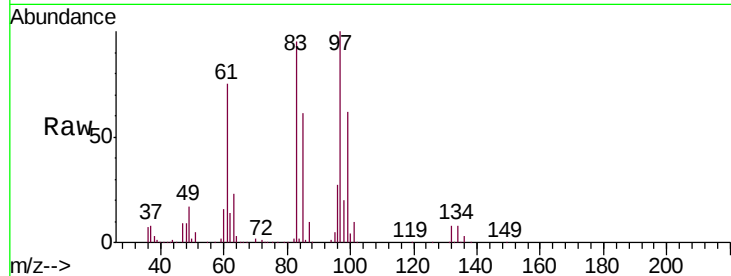




#45
 1,1,2-Trichloroethane
 Concen: 54.483 ug/L
 RT: 8.04 min Scan# 2163
 Delta R.T. 0.00 min
 Lab File: VU034679.D
 Acq: 20 Sep 2019 10:43

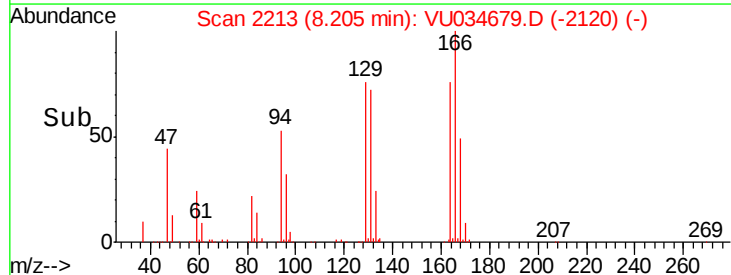
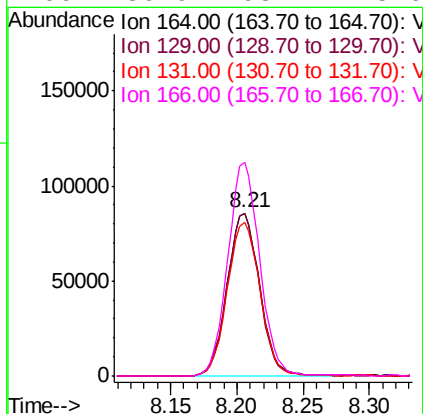
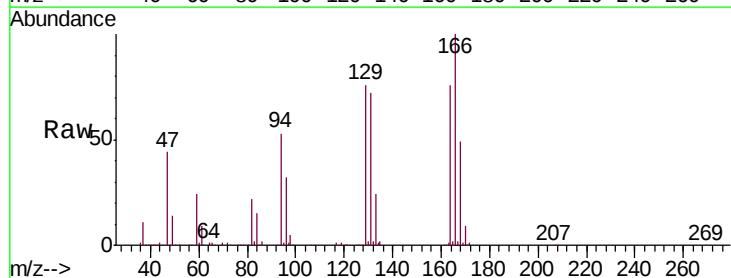
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

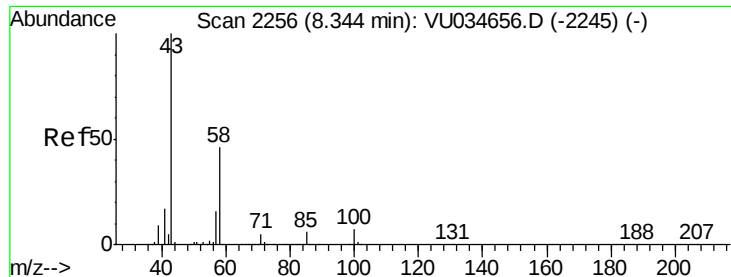
Tgt Ion:	97	Resp:	186227
Ion	Ratio	Lower	Upper
97	100		
99	62.1	43.6	81.0
83	94.6	66.9	124.3
85	60.6	43.3	80.3



#46
 Tetrachloroethene
 Concen: 58.588 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. 0.00 min
 Lab File: VU034679.D
 Acq: 20 Sep 2019 10:43

Tgt Ion:	164	Resp:	145859
Ion	Ratio	Lower	Upper
164	100		
129	99.3	71.9	133.5
131	93.8	66.3	123.1
166	130.9	93.4	173.6

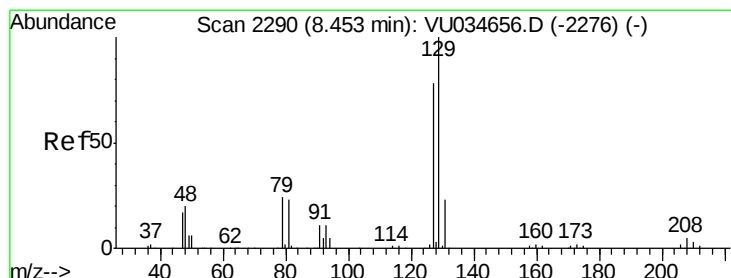
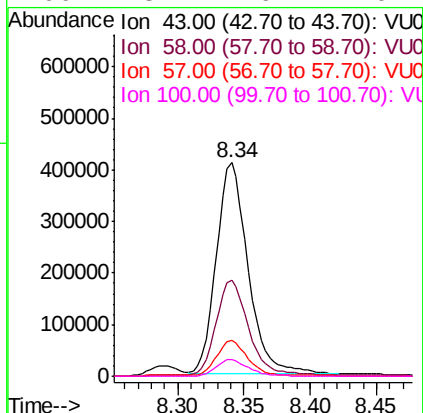
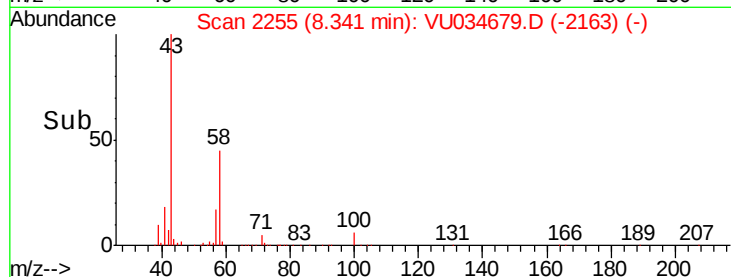
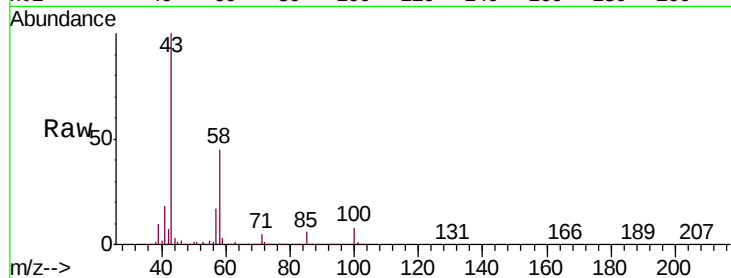




#48
2-Hexanone
Concen: 107.232 ug/L
RT: 8.34 min Scan# 2255
Delta R.T. -0.00 min
Lab File: VU034679.D
Acq: 20 Sep 2019 10:43

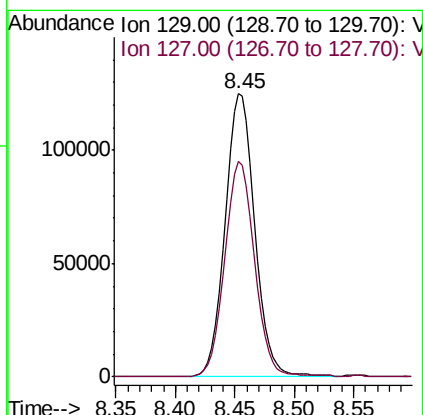
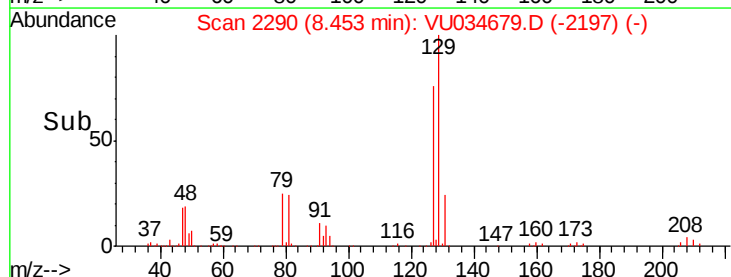
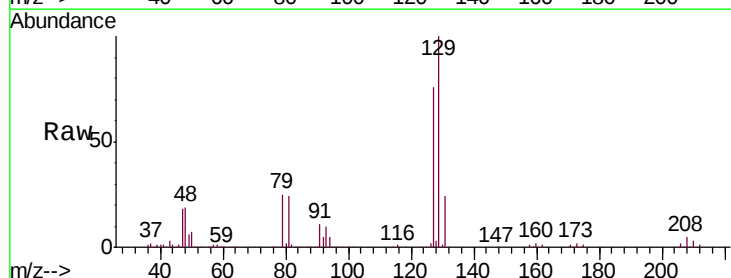
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

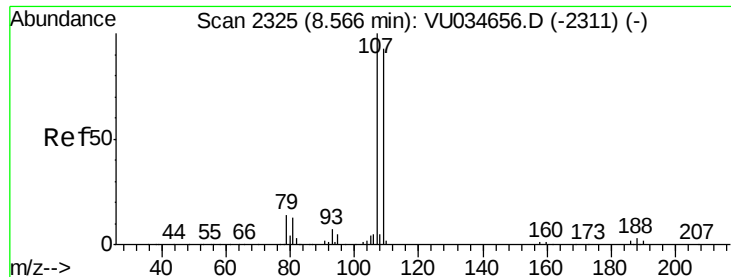
Tgt Ion: 43 Resp: 682300
Ion Ratio Lower Upper
43 100
58 46.2 35.3 52.9
57 16.3 12.1 18.1
100 8.2 6.2 9.4



#49
Dibromochloromethane
Concen: 56.774 ug/L
RT: 8.45 min Scan# 2290
Delta R.T. 0.00 min
Lab File: VU034679.D
Acq: 20 Sep 2019 10:43

Tgt Ion: 129 Resp: 216303
Ion Ratio Lower Upper
129 100
127 76.1 55.5 103.1

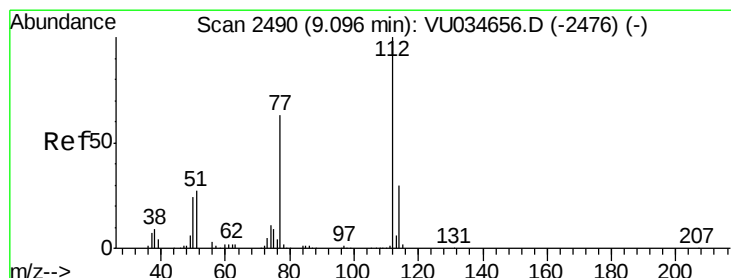
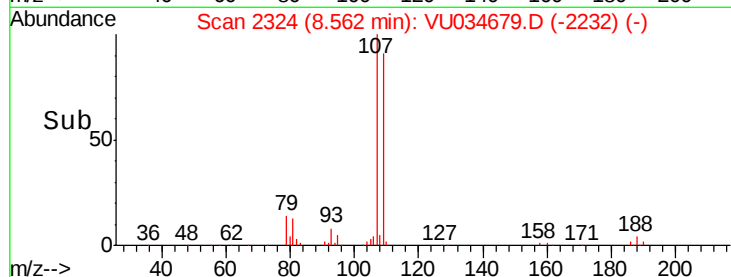
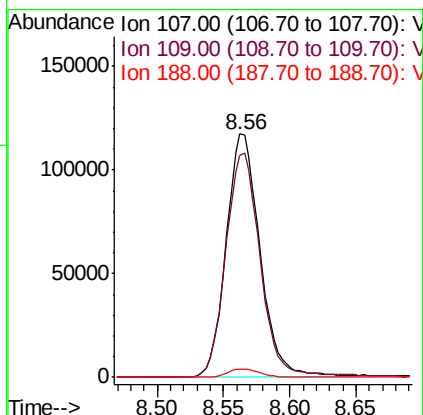
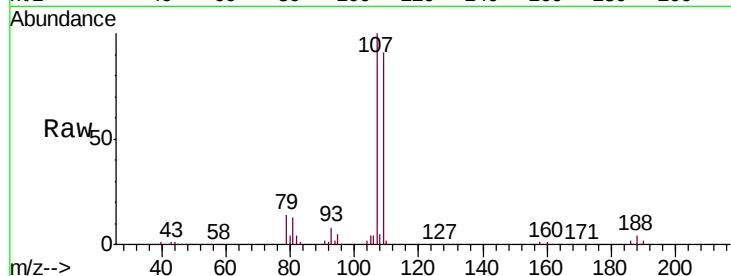




#50
1,2-Dibromoethane
Concen: 56.660 ug/L
RT: 8.56 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU034679.D
Acq: 20 Sep 2019 10:43

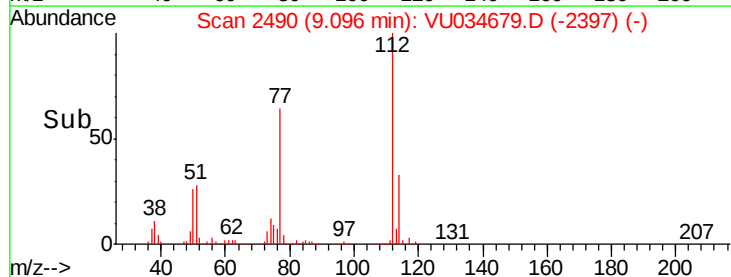
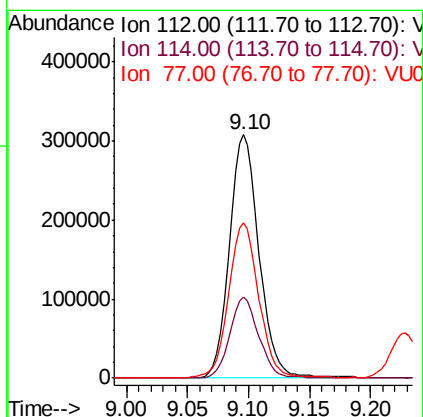
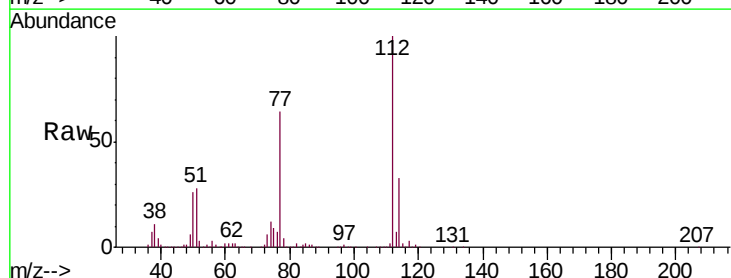
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

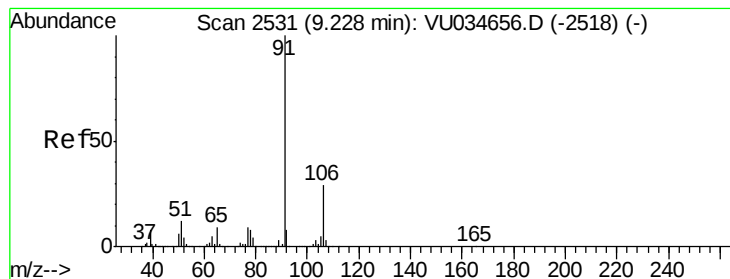
Tgt Ion	Ratio	Lower	Upper
107	100		
109	91.1	65.5	121.6
188	3.5	2.7	4.1



#51
Chlorobenzene
Concen: 55.354 ug/L
RT: 9.10 min Scan# 2490
Delta R.T. 0.00 min
Lab File: VU034679.D
Acq: 20 Sep 2019 10:43

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.2	22.8	42.4
77	64.0	51.5	77.3





#52

Ethylbenzene

Concen: 56.658 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

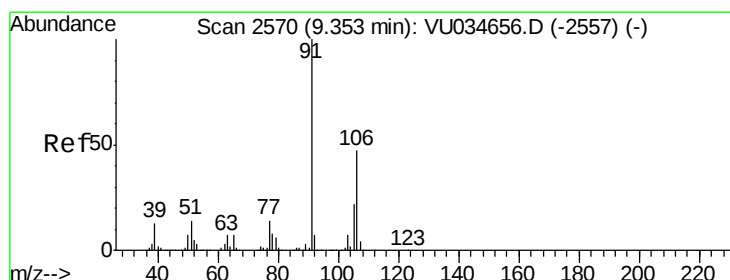
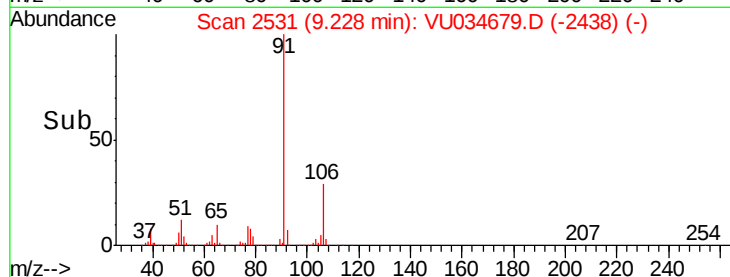
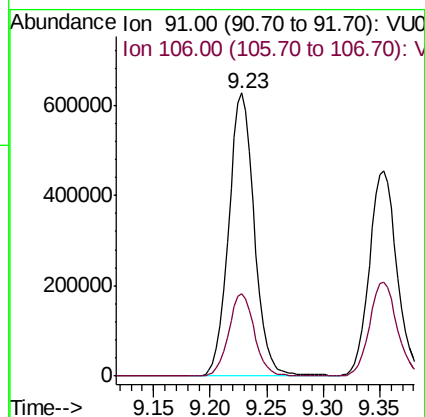
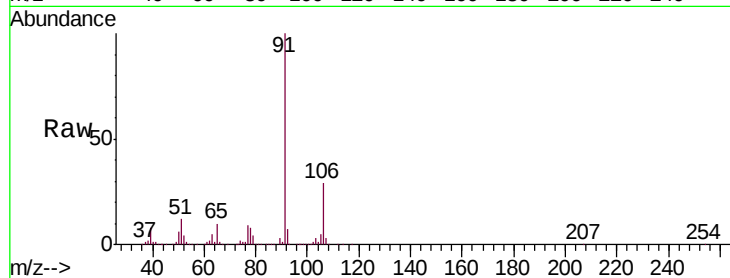
VSTD05060

Tgt Ion: 91 Resp: 988142

Ion Ratio Lower Upper

91 100

106 29.0 20.6 38.4



#53

m,p-Xylene

Concen: 57.136 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU034679.D

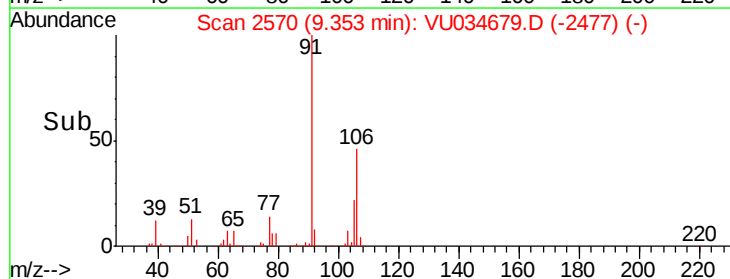
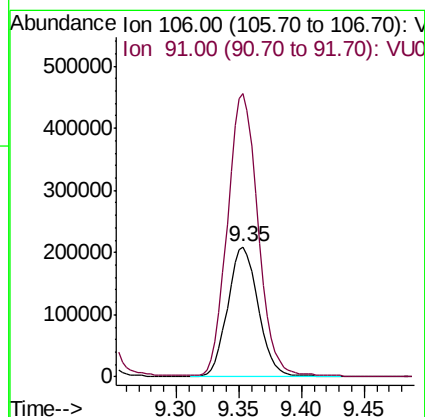
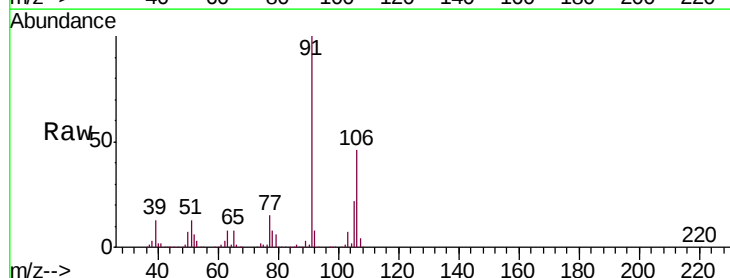
Acq: 20 Sep 2019 10:43

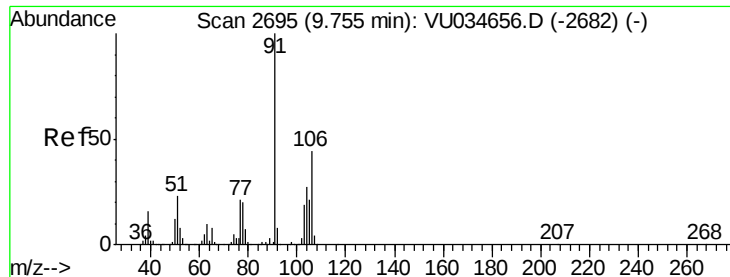
Tgt Ion: 106 Resp: 352950

Ion Ratio Lower Upper

106 100

91 218.0 146.9 272.7





#54

o-xylene

Concen: 57.175 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

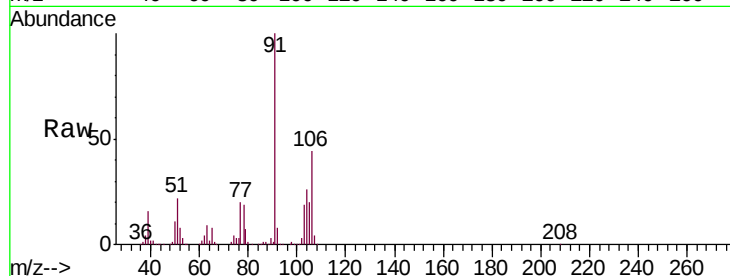
VSTD05060

Tgt Ion:106 Resp: 349335

Ion Ratio Lower Upper

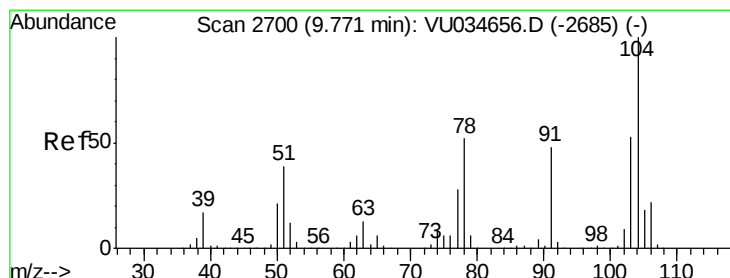
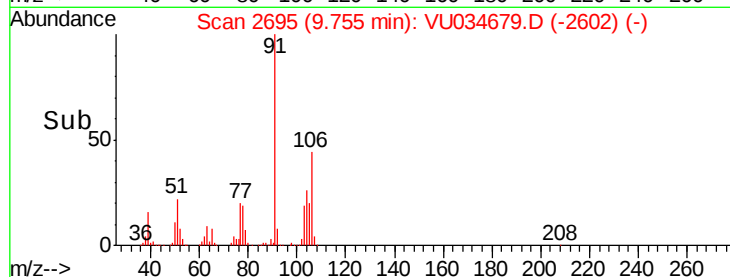
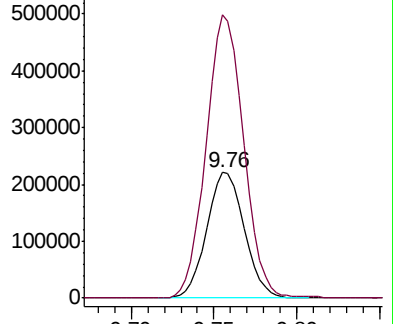
106 100

91 225.8 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 57.018 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VU034679.D

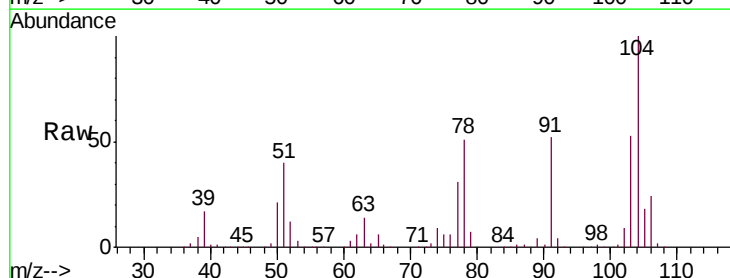
Acq: 20 Sep 2019 10:43

Tgt Ion:104 Resp: 589699

Ion Ratio Lower Upper

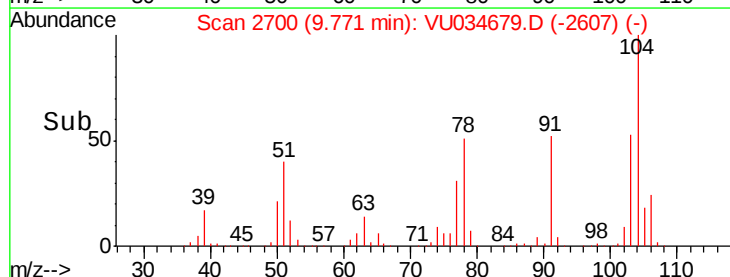
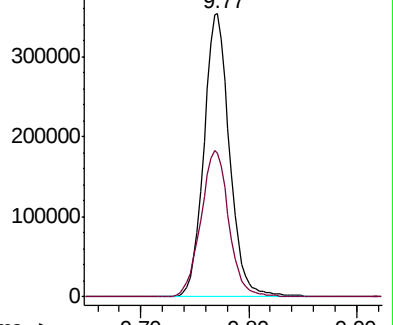
104 100

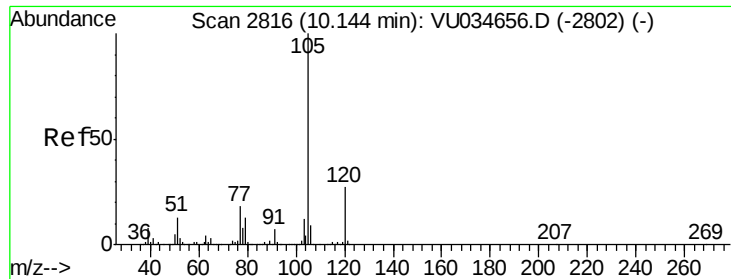
78 51.0 35.1 65.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 56.852 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

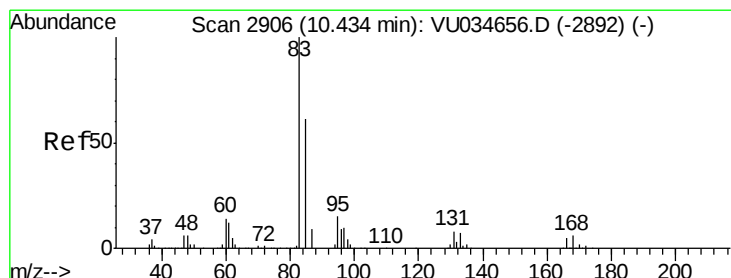
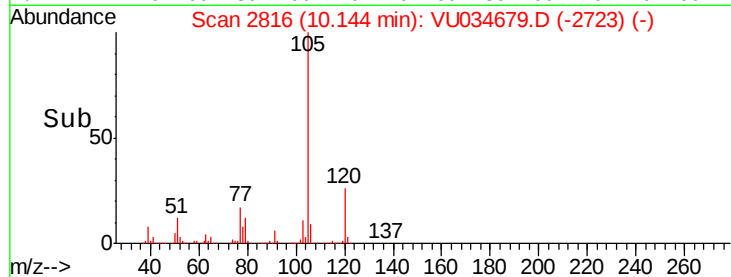
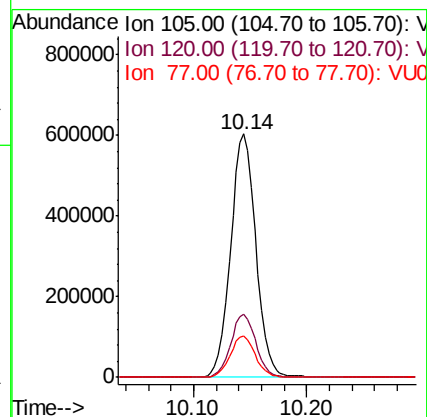
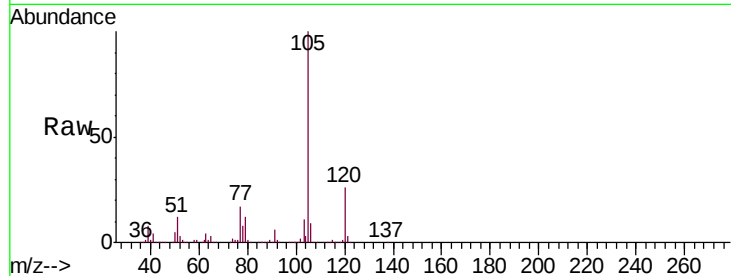
Tgt Ion: 105 Resp: 936602

Ion Ratio Lower Upper

105 100

120 25.7 20.4 30.6

77 17.1 14.2 21.4



#58

1,1,2,2-Tetrachloroethane

Concen: 54.136 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

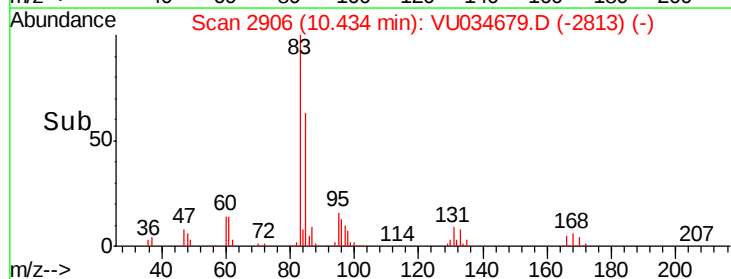
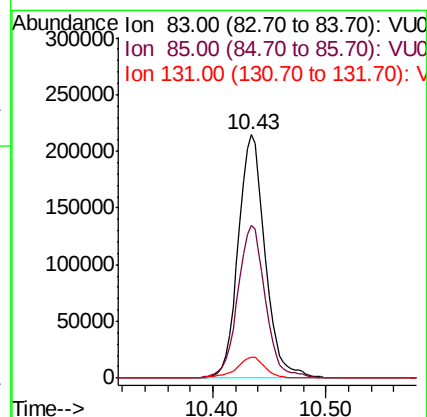
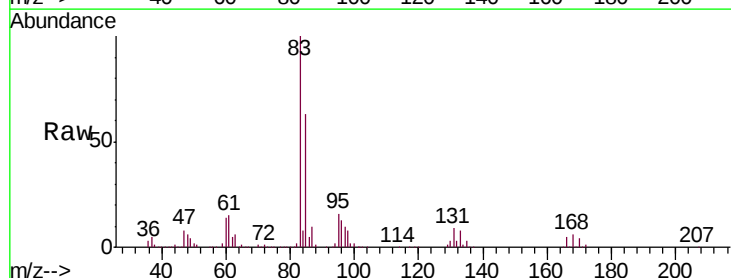
Tgt Ion: 83 Resp: 355404

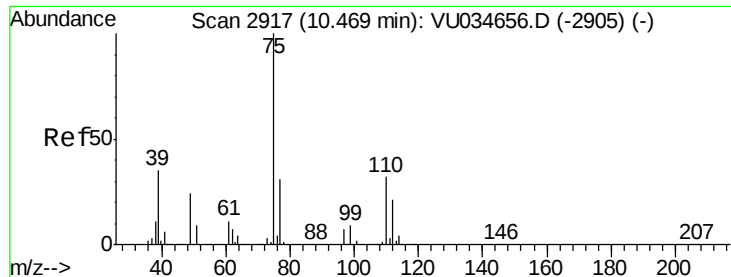
Ion Ratio Lower Upper

83 100

85 62.8 44.6 82.8

131 8.8 6.6 10.0





#59

1,2,3-Trichloropropane

Concen: 53.243 ug/L

RT: 10.47 min Scan# 2917

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

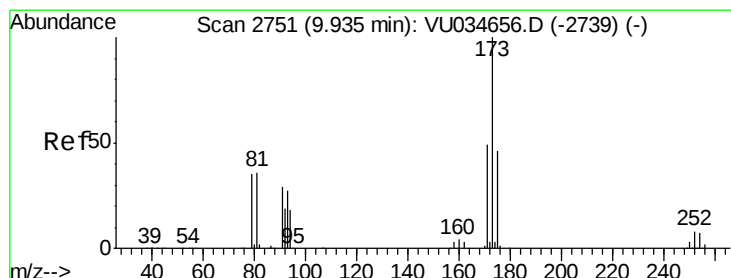
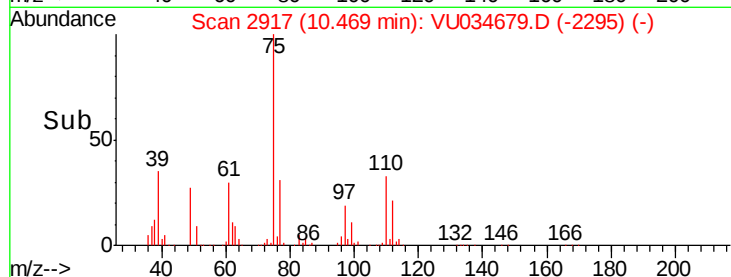
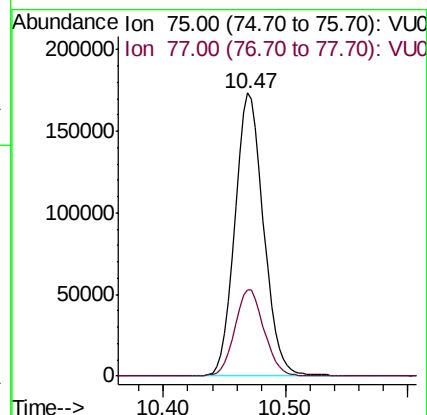
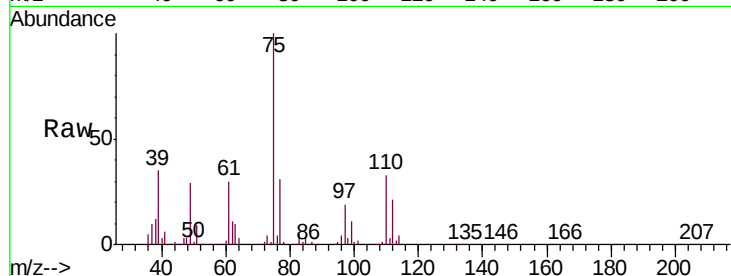
VSTD05060

Tgt Ion: 75 Resp: 283768

Ion Ratio Lower Upper

75 100

77 31.3 24.6 37.0



#61

Bromoform

Concen: 56.283 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

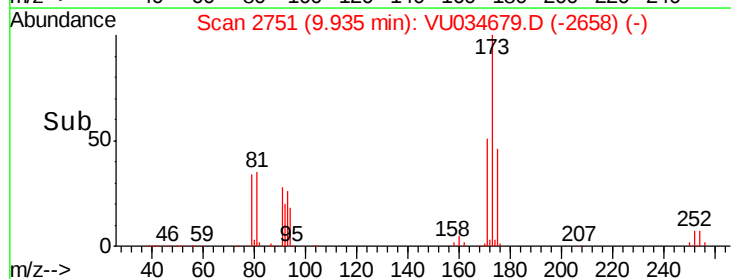
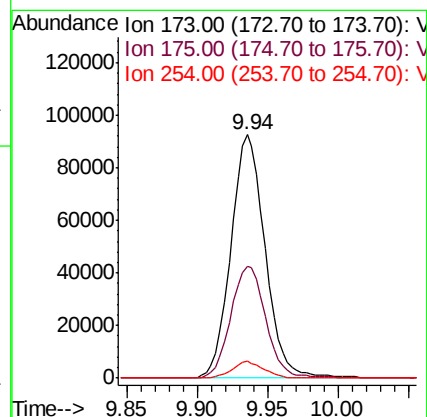
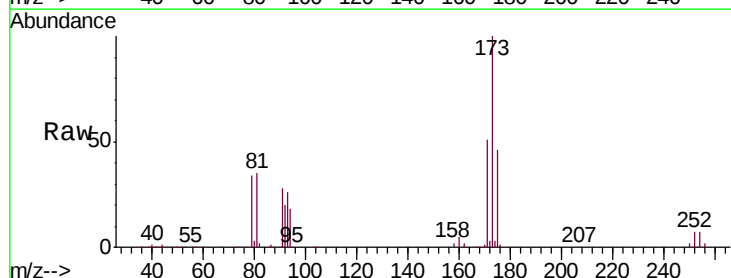
Tgt Ion: 173 Resp: 156574

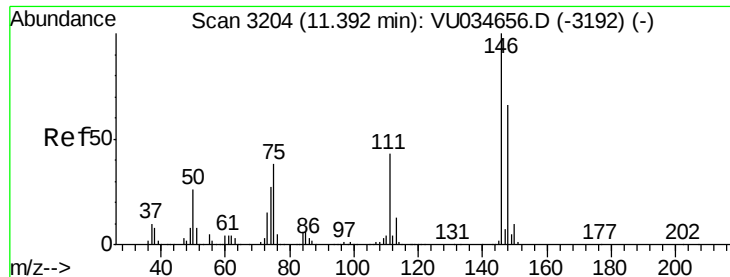
Ion Ratio Lower Upper

173 100

175 47.5 38.8 58.2

254 6.3 5.3 7.9





#62

1,3-Dichlorobenzene

Concen: 57.051 ug/L

RT: 11.40 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

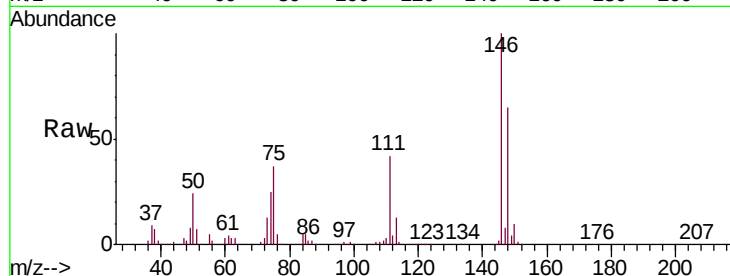
Tgt Ion:146 Resp: 399194

Ion Ratio Lower Upper

146 100

111 41.5 30.4 56.5

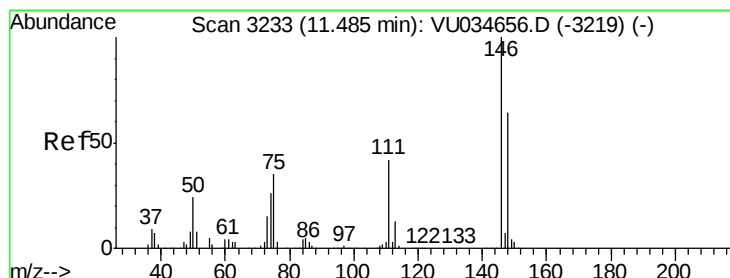
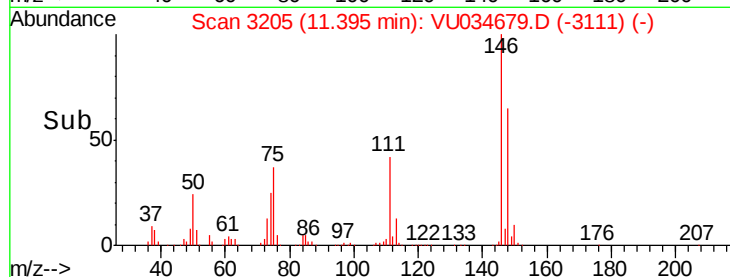
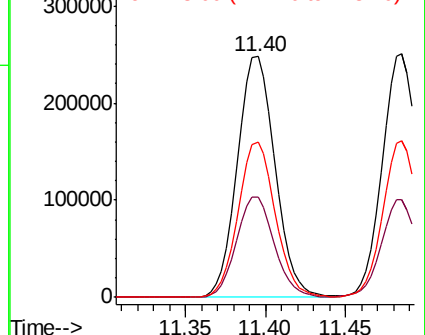
148 64.7 46.1 85.7



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: 56.406 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

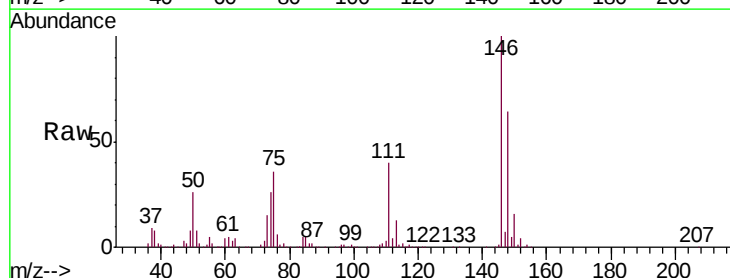
Tgt Ion:146 Resp: 402054

Ion Ratio Lower Upper

146 100

111 39.9 29.5 54.9

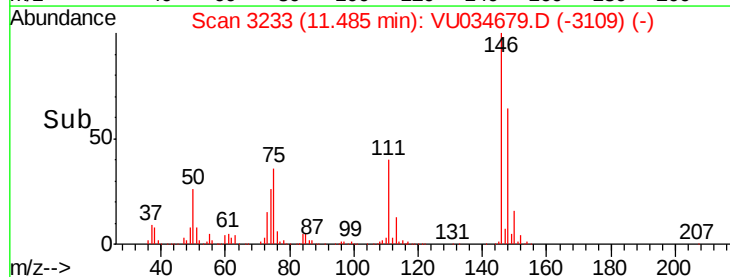
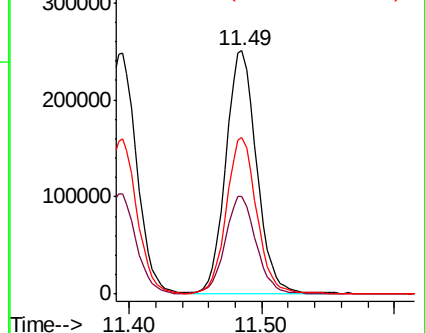
148 64.5 44.4 82.4

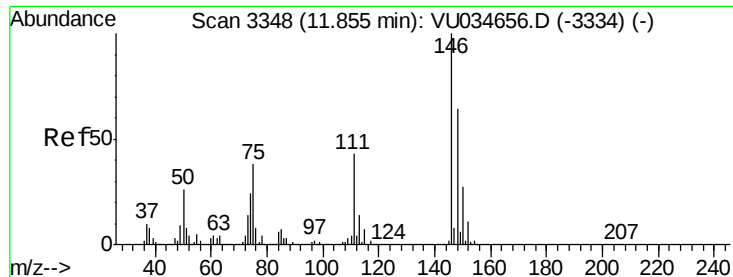


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 55.779 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

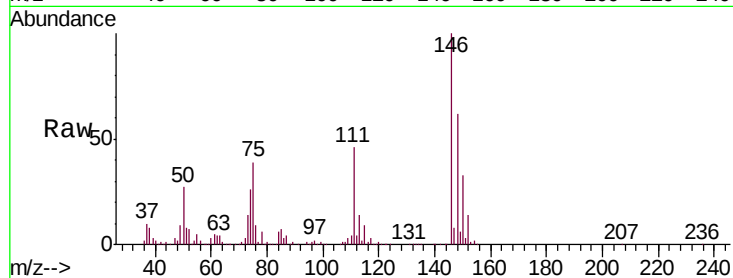
Tgt Ion:146 Resp: 394357

Ion Ratio Lower Upper

146 100

111 46.3 35.2 52.8

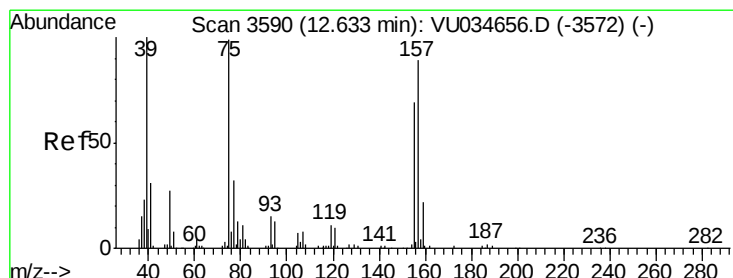
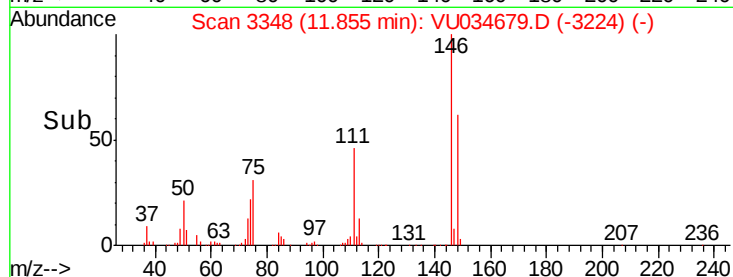
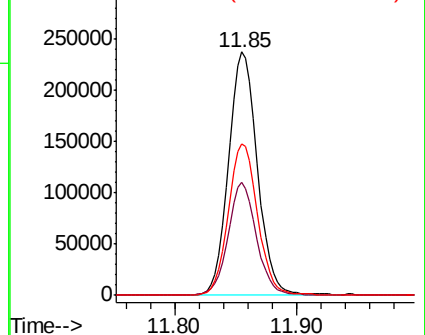
148 62.4 53.0 79.6



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: 55.356 ug/L

RT: 12.64 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

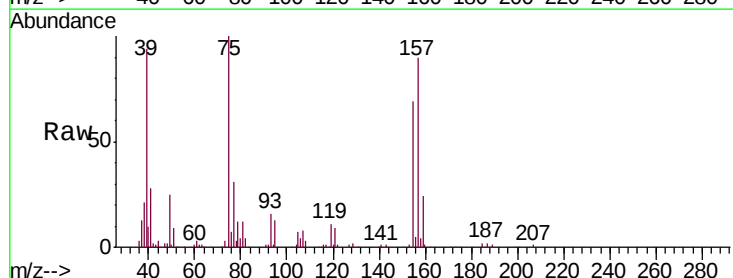
Tgt Ion: 75 Resp: 83187

Ion Ratio Lower Upper

75 100

155 69.2 54.7 82.1

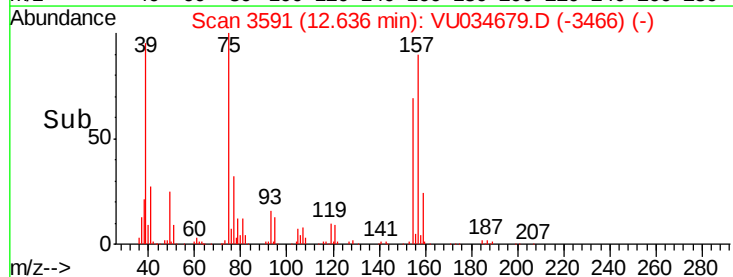
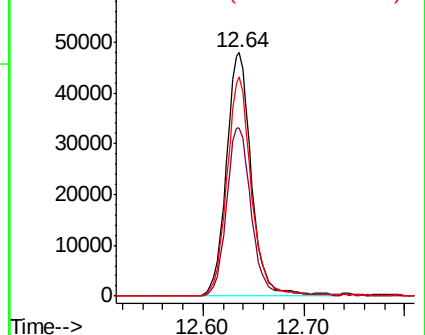
157 89.9 69.9 104.9

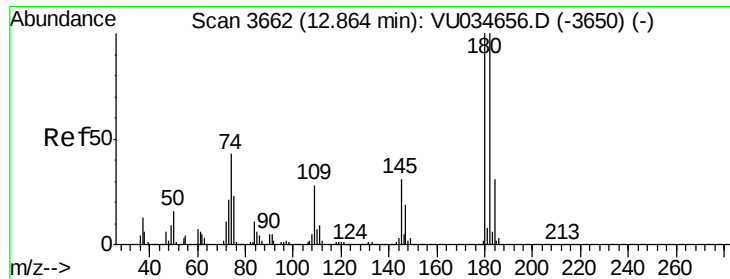


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

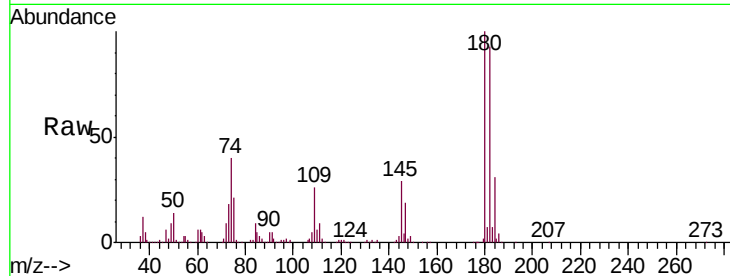




#67
 1,3,5-Trichlorobenzene
 Concen: 59.645 ug/L
 RT: 12.87 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VU034679.D
 Acq: 20 Sep 2019 10:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.4	79.2	118.8
184	30.1	24.6	36.8
145	29.6	24.9	37.3



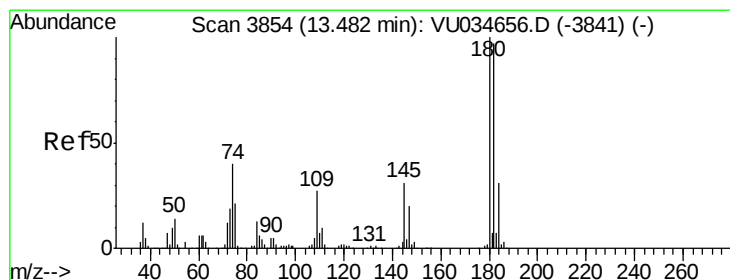
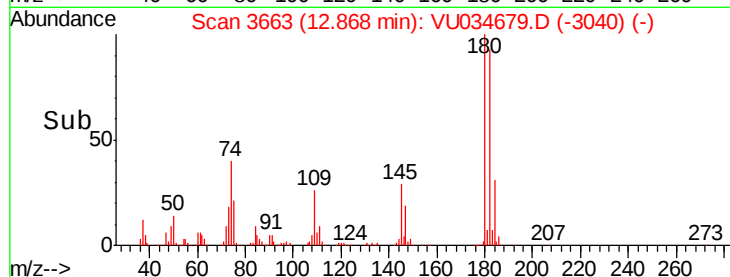
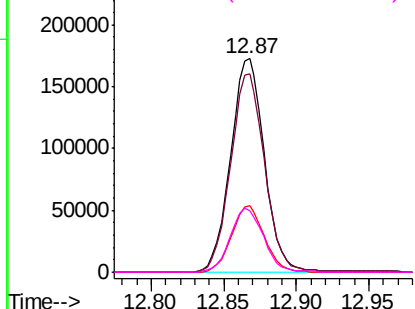
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

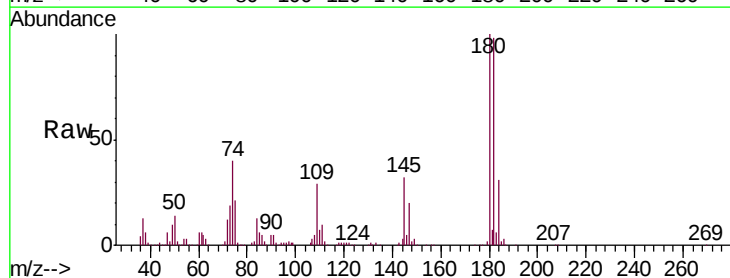
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 63.157 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. 0.00 min
 Lab File: VU034679.D
 Acq: 20 Sep 2019 10:43

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.7	113.5
145	30.8	25.2	37.8

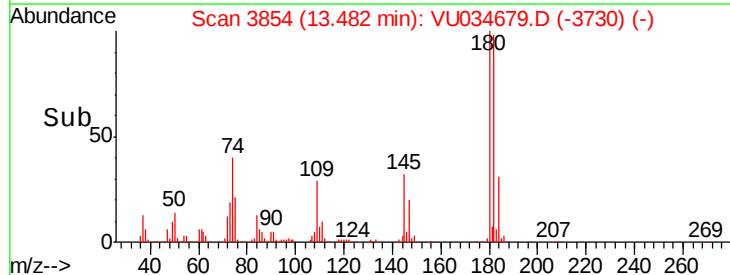
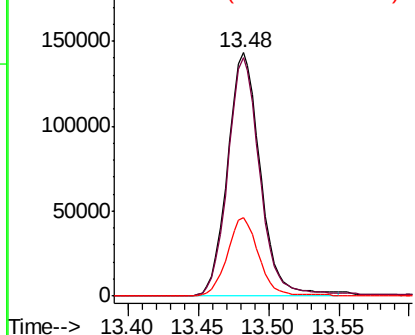


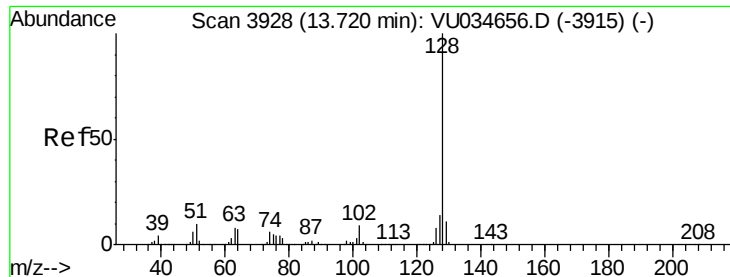
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 61.747 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

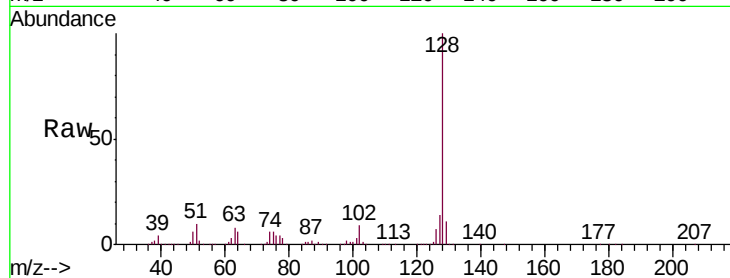
Tgt Ion:128 Resp: 788073

Ion Ratio Lower Upper

128 100

127 13.2 10.8 16.2

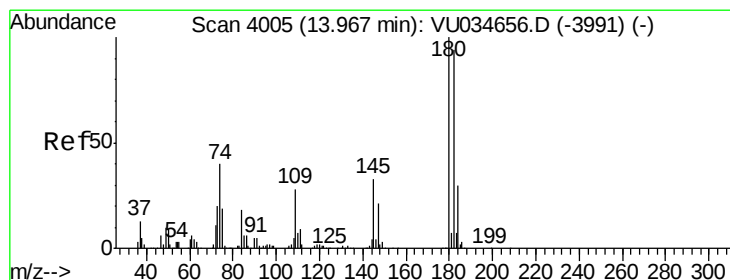
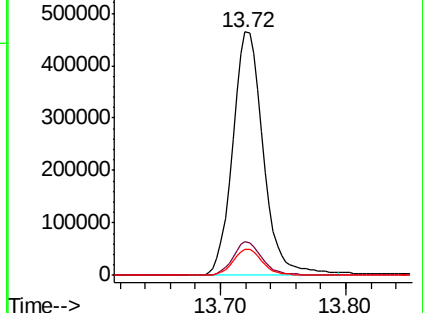
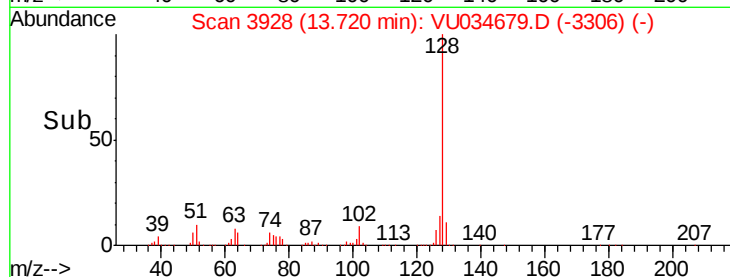
129 10.4 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 59.924 ug/L

RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU034679.D

Acq: 20 Sep 2019 10:43

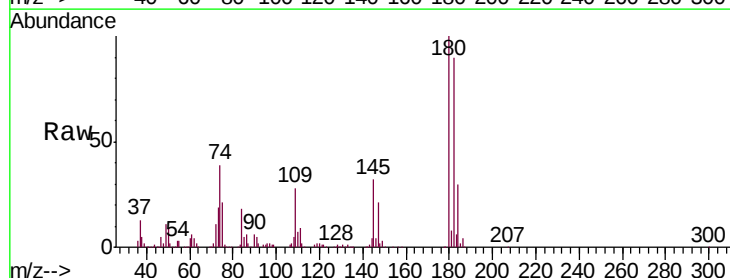
Tgt Ion:180 Resp: 227323

Ion Ratio Lower Upper

180 100

182 93.8 79.2 118.8

145 32.9 26.0 39.0



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

