

Data File : VU033212.D
Acq On : 12 Jul 2019 10:27
Operator : JC/SP
Sample : VSTD10035
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD10035

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	317184	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	321704	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	165265	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	243251	110.98	ug/L	0.00
7) Chloroethane-d5	1.66	69	210261	118.44	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	416051	94.45	ug/L	0.00
21) 2-Butanone-d5	4.15	46	326749	188.88	ug/L	0.00
24) Chloroform-d	4.62	84	412348	99.91	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	260782	95.22	ug/L	0.00
32) Benzene-d6	5.31	84	827452	101.35	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	260561	100.64	ug/L	0.00
41) Toluene-d8	7.55	98	798706	104.12	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	133631	99.39	ug/L	0.00
47) 2-Hexanone-d5	8.29	63	265797	219.43	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	400131	99.44	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	309079	99.32	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	305945	96.994	ug/L	99
3) Chloromethane	1.32	50	307940	105.668	ug/L	99
5) Vinyl chloride	1.39	62	351398	118.156	ug/L	100
6) Bromomethane	1.60	94	215518	124.022	ug/L	98
8) Chloroethane	1.68	64	213541	122.213	ug/L	97
9) Trichlorofluoromethane	1.87	101	459450	111.510	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	208260	97.928	ug/L	99
12) 1,1-Dichloroethene	2.27	96	203214	100.561	ug/L	92
13) Acetone	2.31	43	330578	141.159	ug/L	99
14) Carbon disulfide	2.46	76	637421	101.144	ug/L	99
15) Methyl Acetate	2.60	43	250059	91.378	ug/L	99
16) Methylene chloride	2.68	84	238543	102.187	ug/L	96
17) trans-1,2-Dichloroethene	2.96	96	218760	101.625	ug/L	99
18) Methyl tert-butyl Ether	2.98	73	698356	101.889	ug/L	100
19) 1,1-Dichloroethane	3.42	63	410671	100.390	ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	252371	106.977	ug/L	97
22) 2-Butanone	4.23	43	422652	171.792	ug/L	99
23) Bromochloromethane	4.52	128	125521	102.845	ug/L	100
25) Chloroform	4.65	83	436606	102.896	ug/L	99
27) 1,2-Dichloroethane	5.38	62	345855	100.203	ug/L	99
29) Cyclohexane	4.97	56	374768	102.104	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	370589	97.060	ug/L	100
31) Carbon tetrachloride	5.11	117	327819	94.874	ug/L	100
33) Benzene	5.37	78	949400	103.544	ug/L	100
34) Trichloroethene	6.16	95	243715	100.162	ug/L	98
35) Methylcyclohexane	6.40	83	401197	106.676	ug/L	99
37) 1,2-Dichloropropane	6.41	63	255490	101.999	ug/L	100
38) Bromodichloromethane	6.74	83	331806	99.082	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	414804	107.296	ug/L	97
40) 4-Methyl-2-pentanone	7.44	43	717337	184.310	ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	1052964	106.125	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	372088	102.193	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	241140	103.224	ug/L	99
46) Tetrachloroethene	8.21	164	192897	97.668	ug/L	99
48) 2-Hexanone	8.34	43	584777	172.656	ug/L	98
49) Dibromochloromethane	8.46	129	277408	99.964	ug/L	99
50) 1,2-Dibromoethane	8.57	107	267136	103.104	ug/L	98
51) Chlorobenzene	9.10	112	669201	102.664	ug/L	99
52) Ethylbenzene	9.23	91	1159320	105.890	ug/L	99
53) m,p-Xylene	9.36	106	440203	106.375	ug/L	97
54) o-xylene	9.76	106	442325	109.220	ug/L	98
55) Styrene	9.77	104	760010	108.518	ug/L	98
56) Isopropylbenzene	10.15	105	1137949	105.015	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	428896	101.276	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	333859	100.018	ug/L	100
61) Bromoform	9.94	173	208686	99.607	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	521154	103.048	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	533746	101.924	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	524527	101.341	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	100331	102.448	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	387807	96.577	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	356338	103.933	ug/L	98
69) Naphthalene	13.73	128	1218275	114.167	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	366034	100.577	ug/L	99

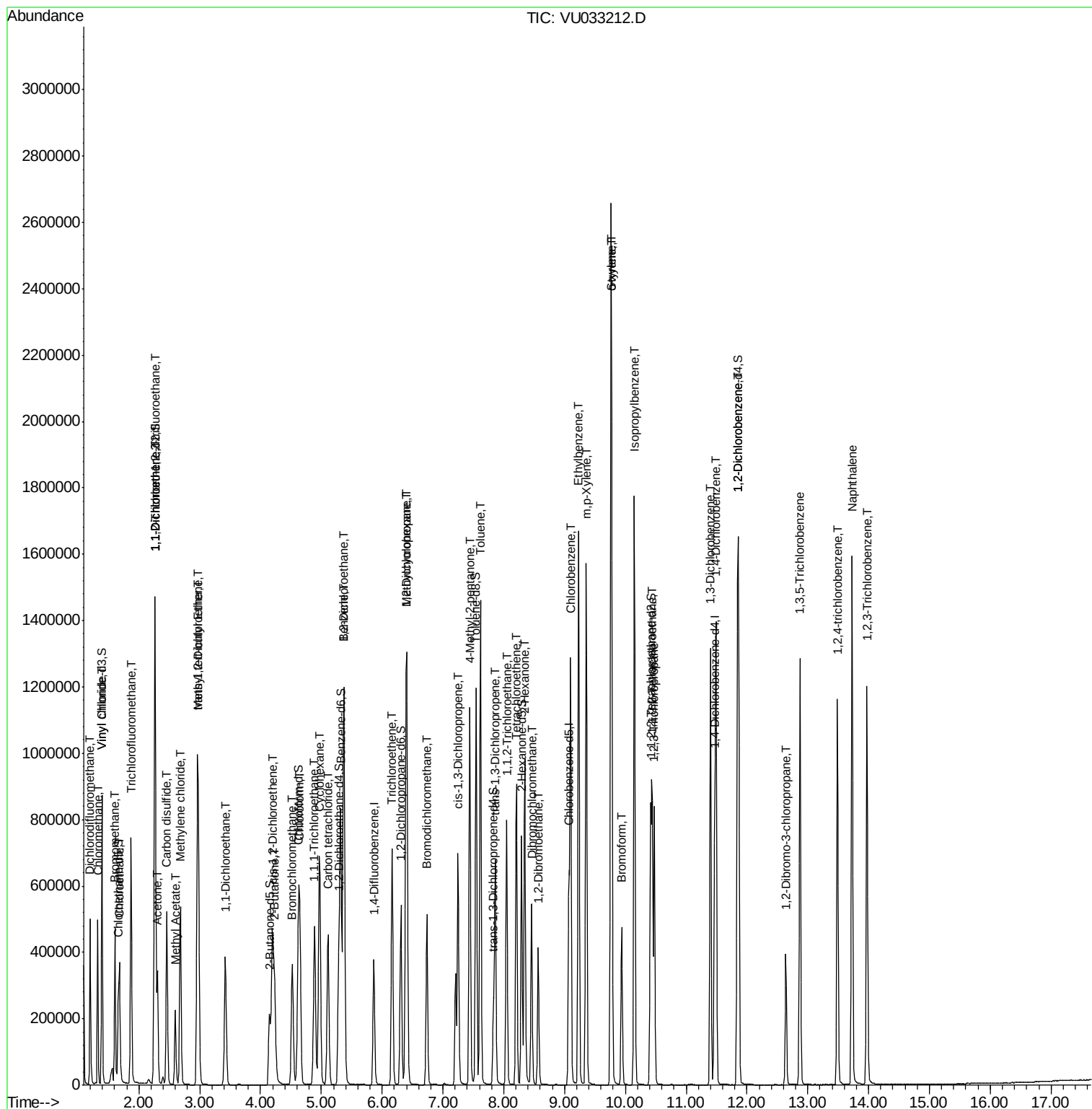
(#) = qualifier out of range (m) = manual integration (+) = signals summed

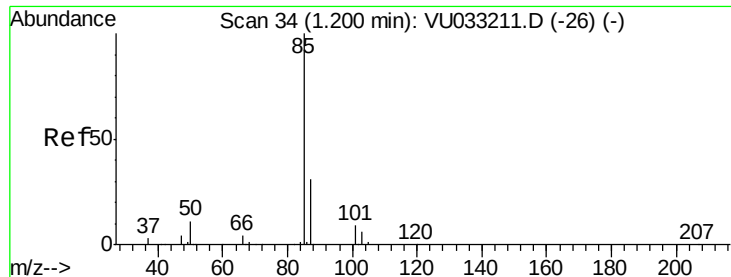
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#2

Dichlorodifluoromethane

Concen: 96.994 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

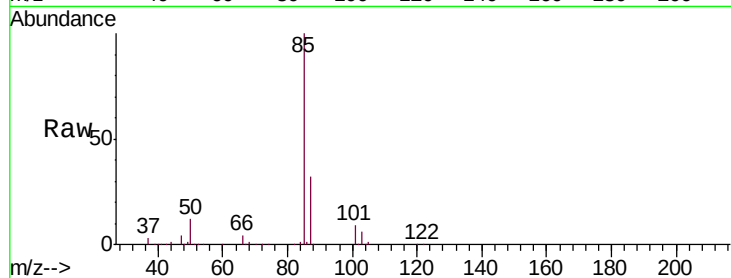
VSTD10035

Tgt Ion: 85 Resp: 305945

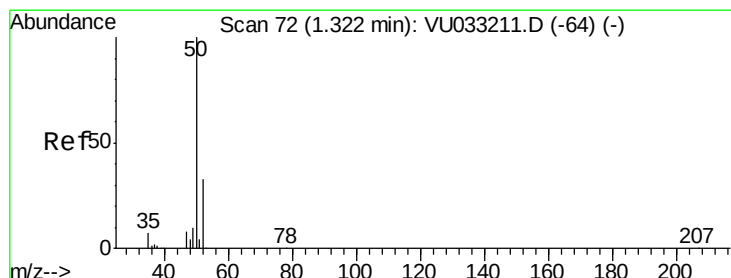
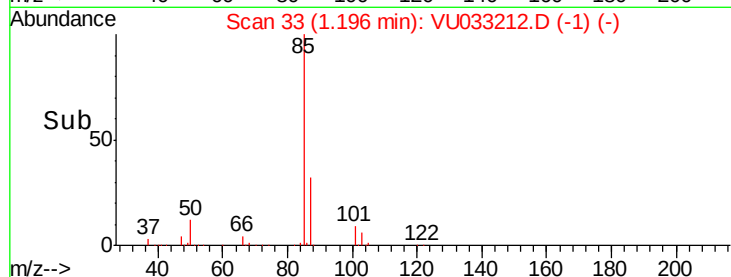
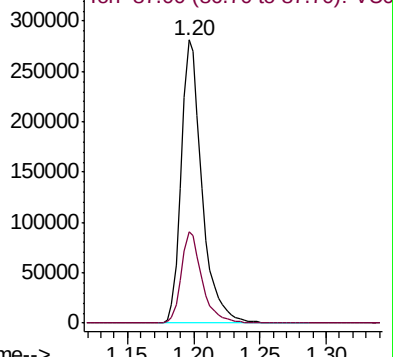
Ion Ratio Lower Upper

85 100

87 32.4 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033212.D (-1) (-)



#3

Chloromethane

Concen: 105.668 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033212.D

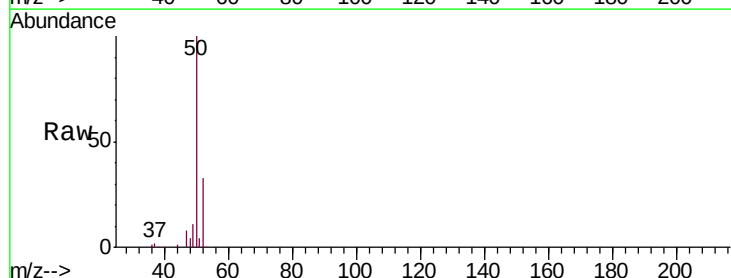
Acq: 12 Jul 2019 10:27

Tgt Ion: 50 Resp: 307940

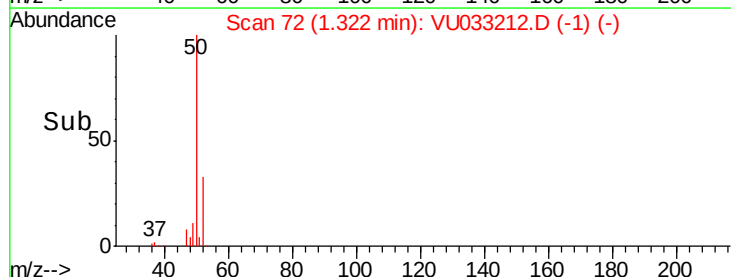
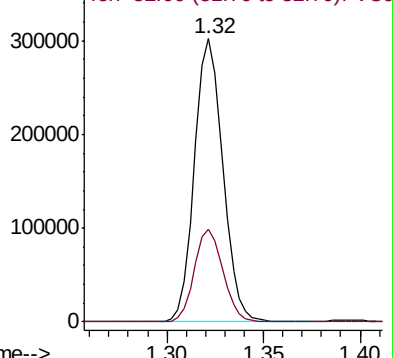
Ion Ratio Lower Upper

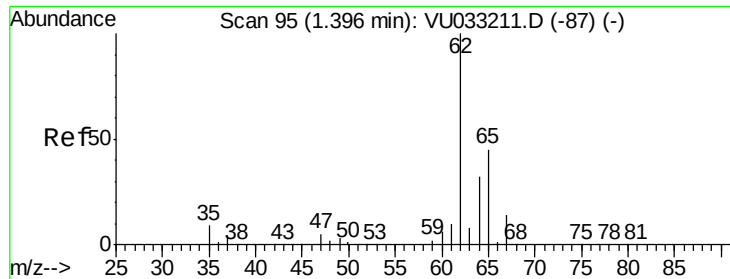
50 100

52 32.8 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU033212.D (-1) (-)





#5

Vinyl chloride

Concen: 118.156 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

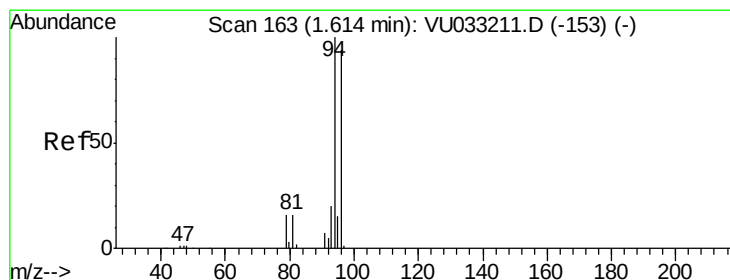
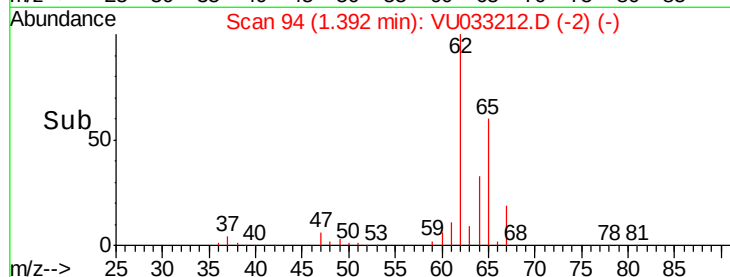
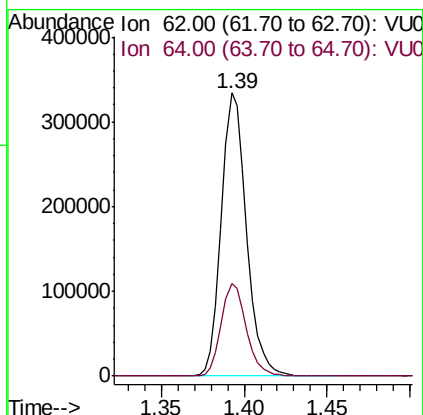
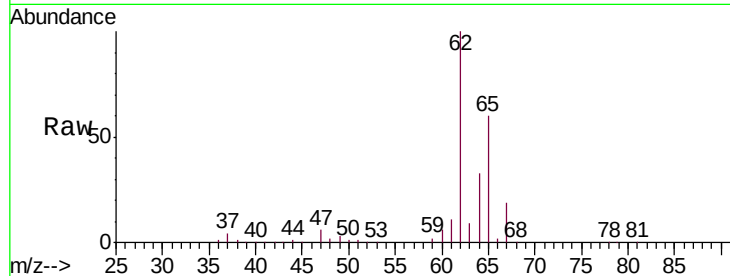
VSTD10035

Tgt Ion: 62 Resp: 351398

Ion Ratio Lower Upper

62 100

64 32.8 22.7 42.3



#6

Bromomethane

Concen: 124.022 ug/L

RT: 1.60 min Scan# 160

Delta R.T. -0.01 min

Lab File: VU033212.D

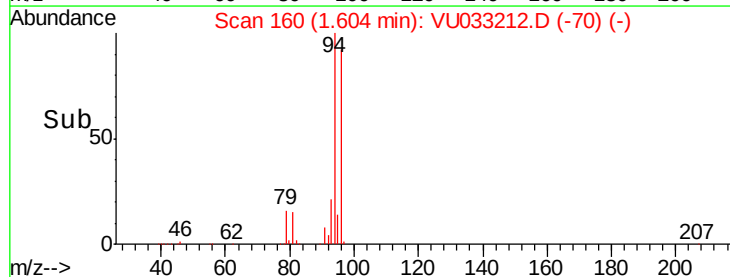
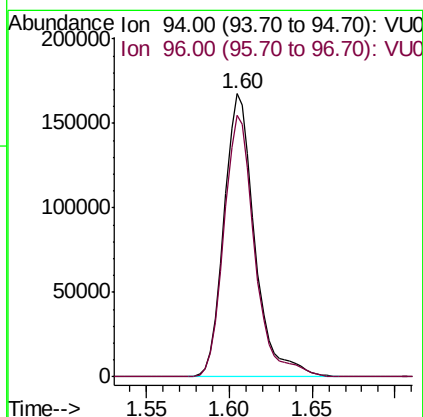
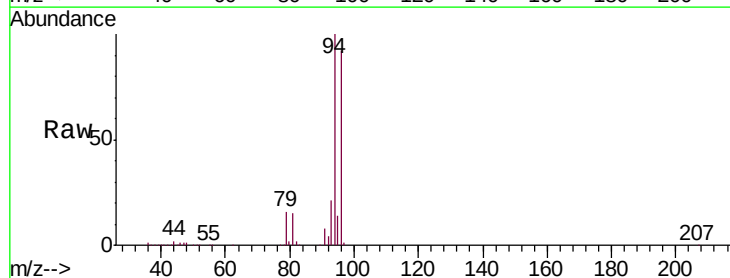
Acq: 12 Jul 2019 10:27

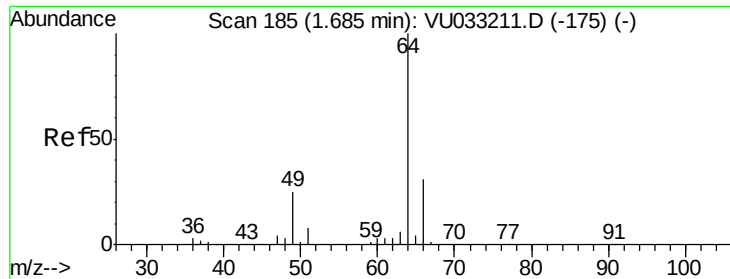
Tgt Ion: 94 Resp: 215518

Ion Ratio Lower Upper

94 100

96 92.4 66.1 122.7





#8

Chloroethane

Concen: 122.213 ug/L

RT: 1.68 min Scan# 184

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

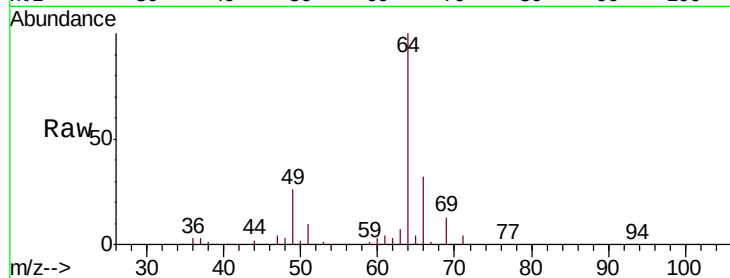
VSTD10035

Tgt Ion: 64 Resp: 213541

Ion Ratio Lower Upper

64 100

66 32.4 21.6 40.0



Abundance Ion 64.00 (63.70 to 64.70): VU033212.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU033212.D (-175) (-)

1.68

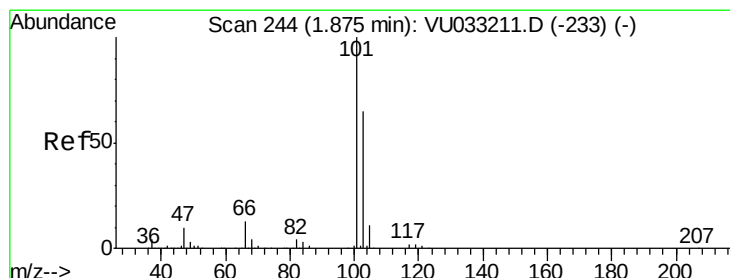
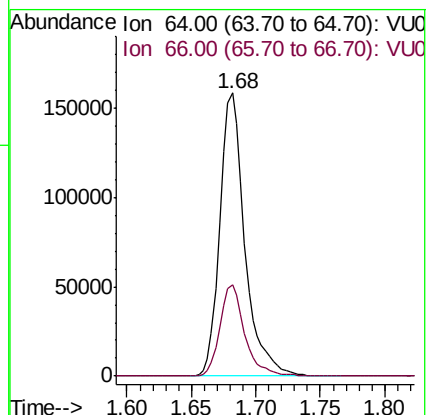
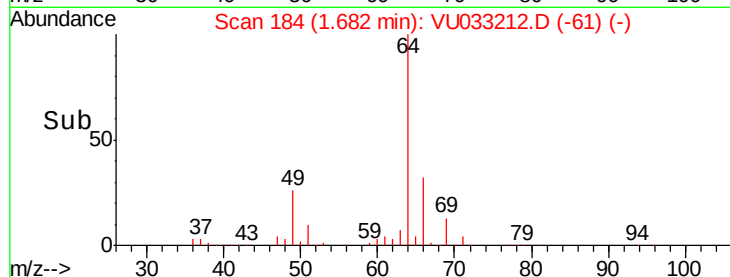
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 111.510 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.00 min

Lab File: VU033212.D

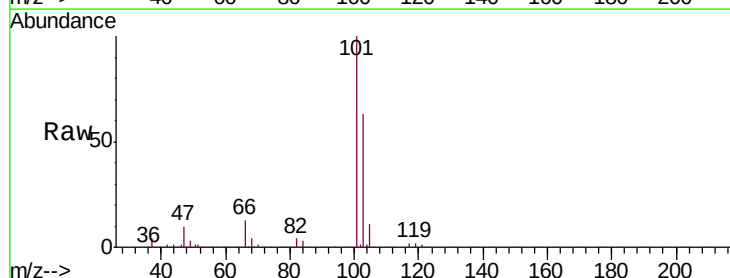
Acq: 12 Jul 2019 10:27

Tgt Ion: 101 Resp: 459450

Ion Ratio Lower Upper

101 100

103 64.4 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU033212.D (-120) (-)

Ion 103.00 (102.70 to 103.70): VU033212.D (-120) (-)

1.87

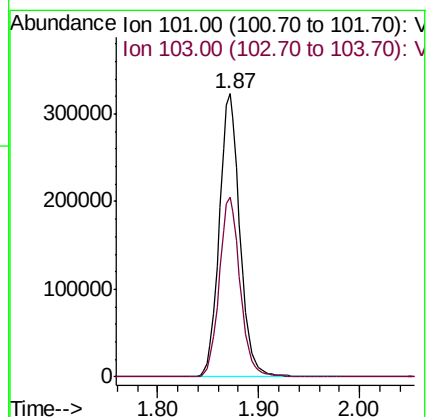
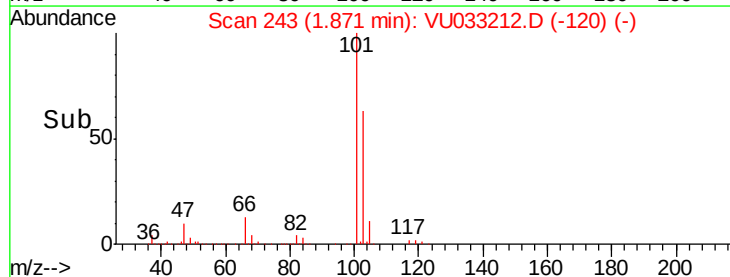
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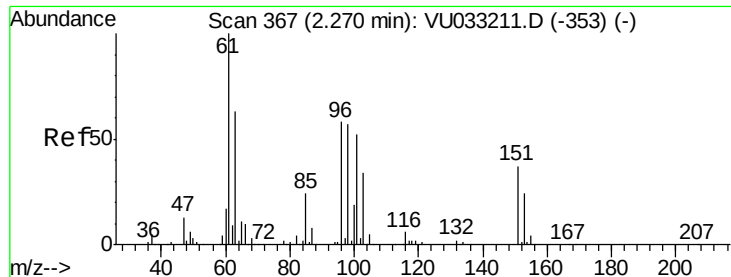
200000

100000

0

Time-->





#10

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

Concen: 97.928 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD10035

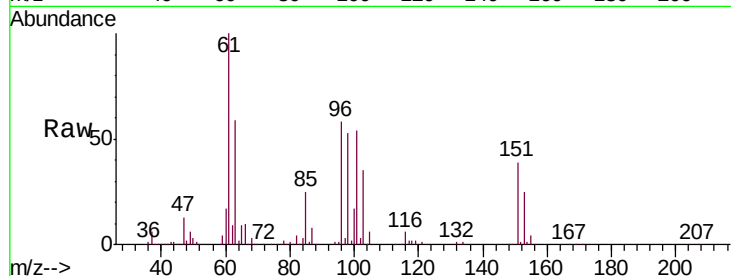
Tgt Ion: 101 Resp: 208260

Ion Ratio Lower Upper

101 100

85 45.4 35.8 53.8

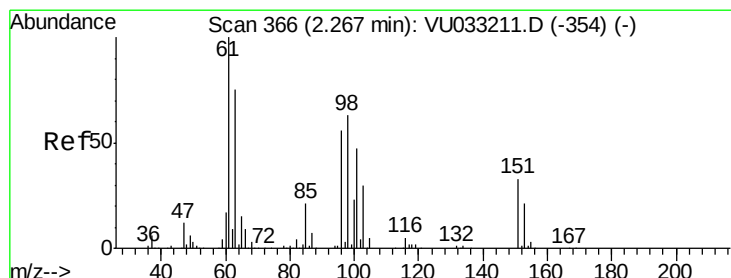
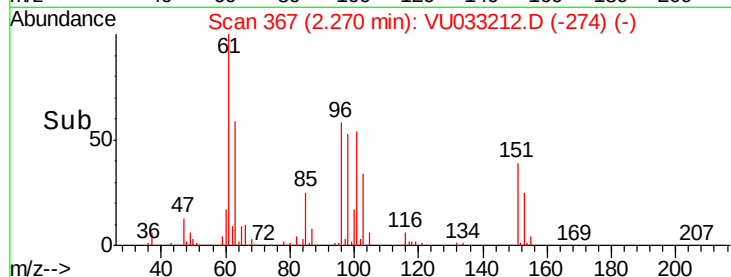
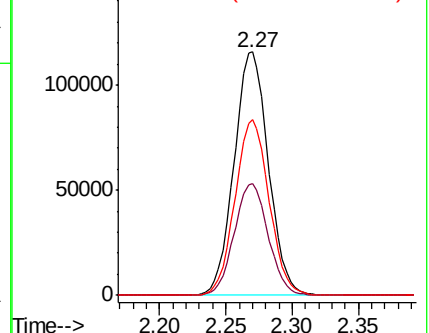
151 71.6 56.7 85.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 100.561 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

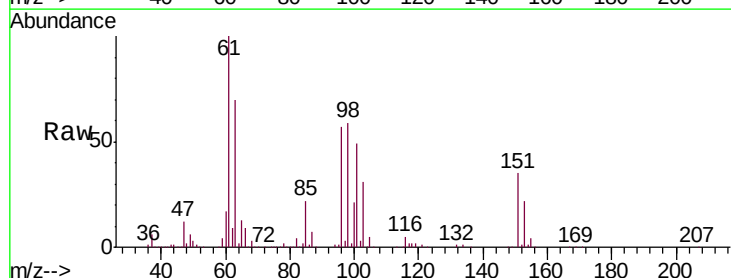
Tgt Ion: 96 Resp: 203214

Ion Ratio Lower Upper

96 100

61 175.1 126.1 234.1

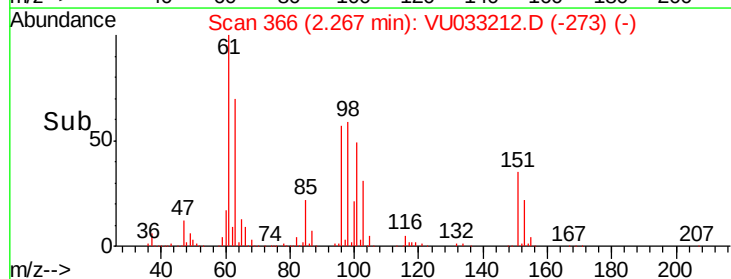
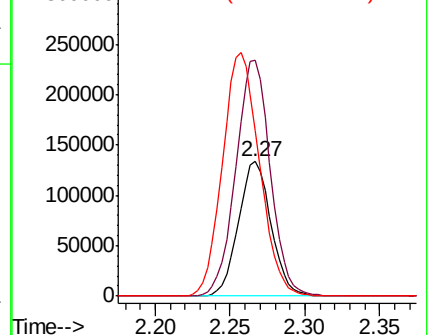
63 122.5 96.8 179.8

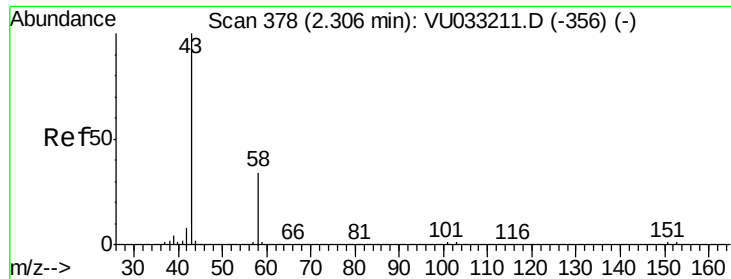


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 141.159 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

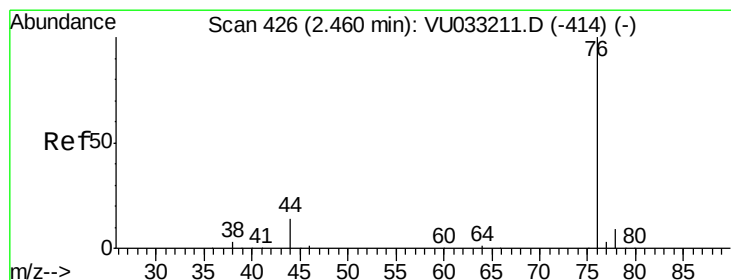
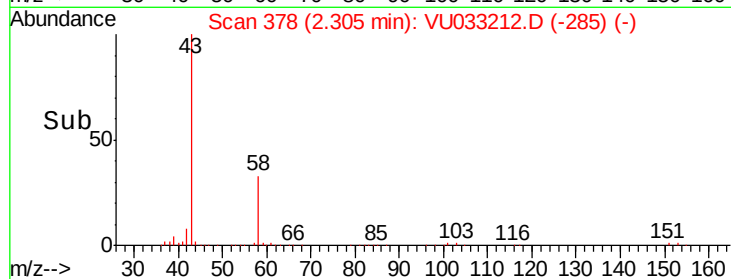
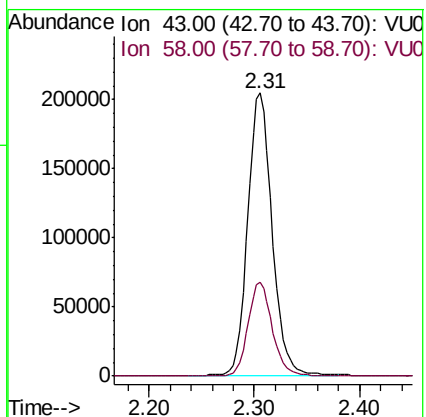
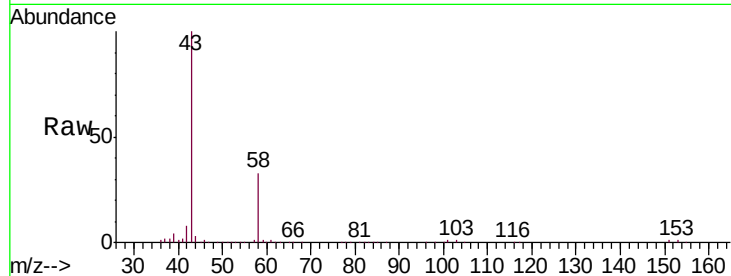
Instrument :
MSVOA_U
ClientSampleId :
VSTD10035

Tgt Ion: 43 Resp: 330578

Ion Ratio Lower Upper

43 100

58 33.0 0.0 65.4



#14

Carbon disulfide

Concen: 101.144 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033212.D

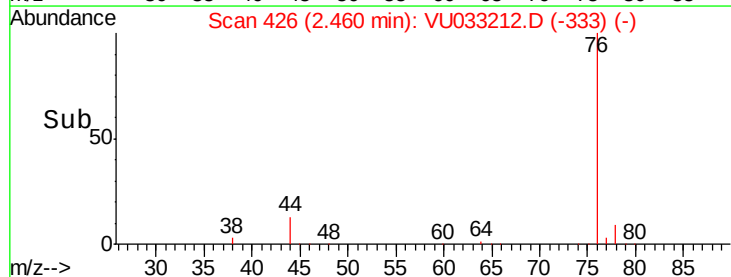
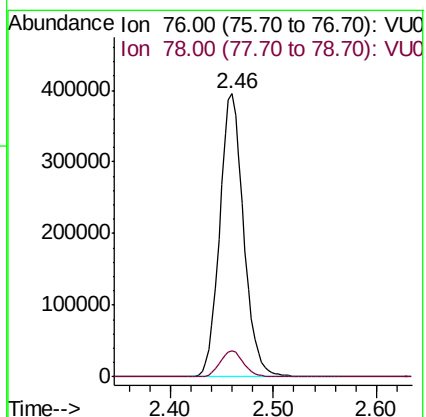
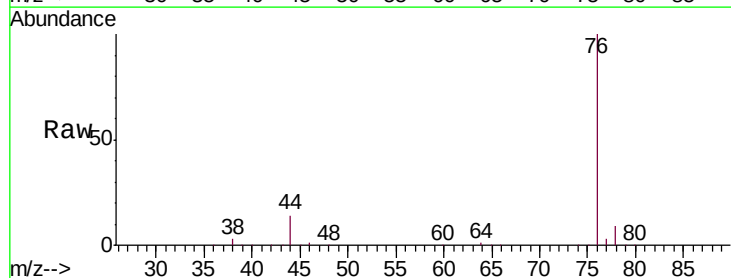
Acq: 12 Jul 2019 10:27

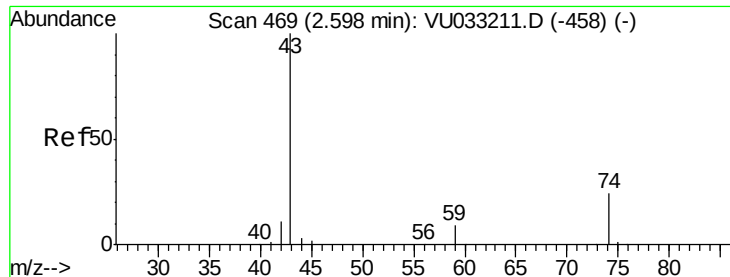
Tgt Ion: 76 Resp: 637421

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.2

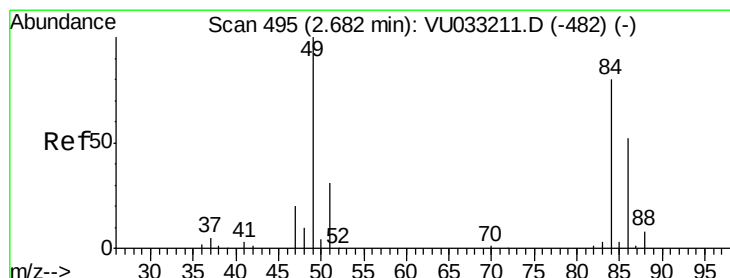
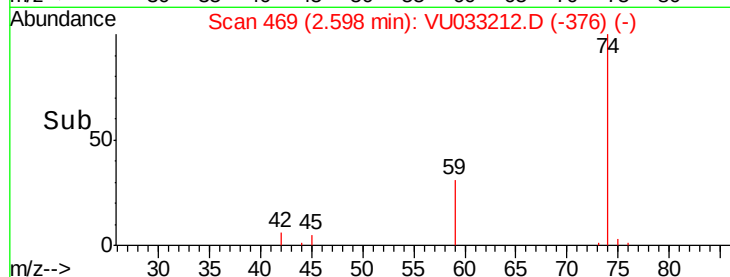
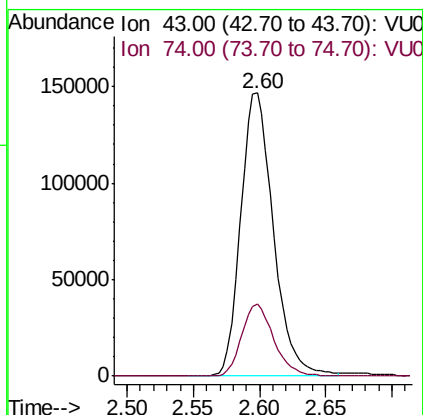
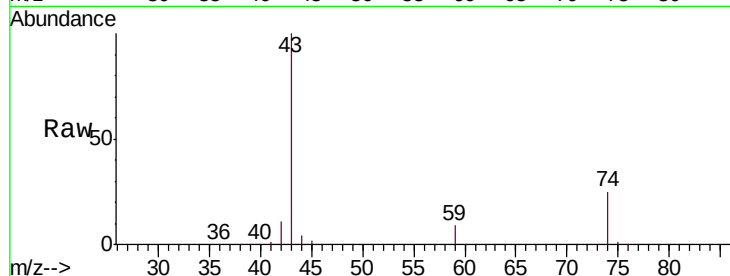




#15
Methyl Acetate
Concen: 91.378 ug/L
RT: 2.60 min Scan# 469
Delta R.T. -0.00 min
Lab File: VU033212.D
Acq: 12 Jul 2019 10:27

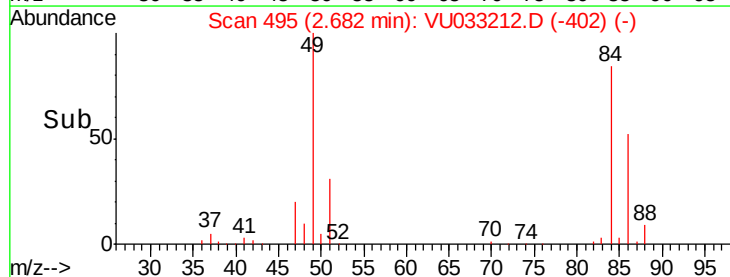
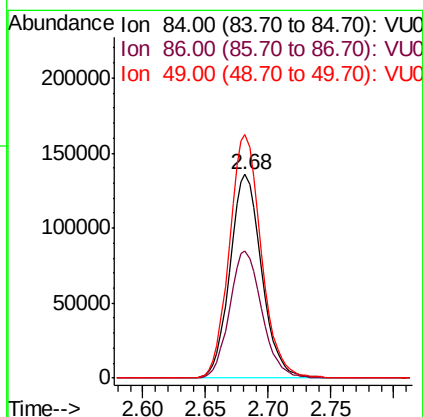
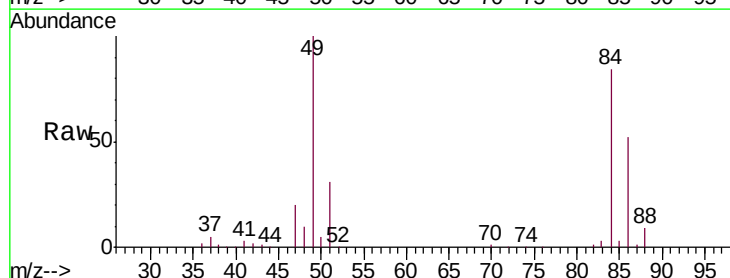
Instrument :
MSVOA_U
ClientSampleId :
VSTD10035

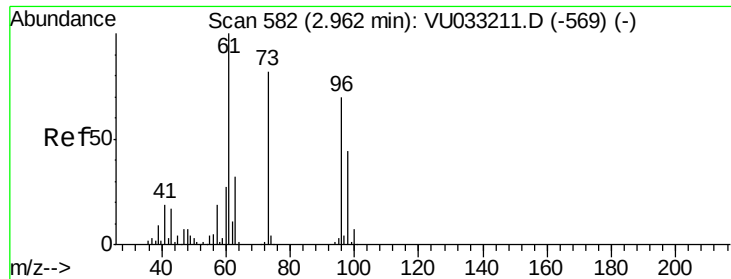
Tgt Ion: 43 Resp: 250059
Ion Ratio Lower Upper
43 100
74 25.2 19.9 29.9



#16
Methylene chloride
Concen: 102.187 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033212.D
Acq: 12 Jul 2019 10:27

Tgt Ion: 84 Resp: 238543
Ion Ratio Lower Upper
84 100
86 62.4 45.7 84.9
49 119.7 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 101.625 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD10035

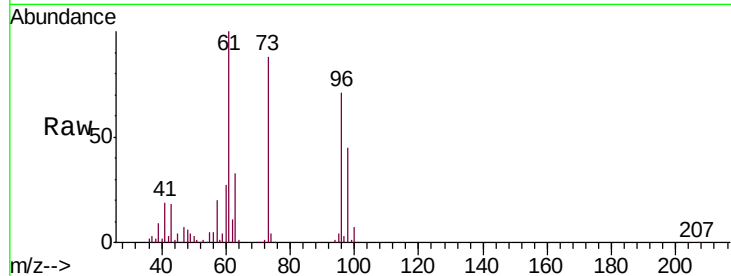
Tgt Ion: 96 Resp: 218760

Ion Ratio Lower Upper

96 100

61 141.2 100.2 186.2

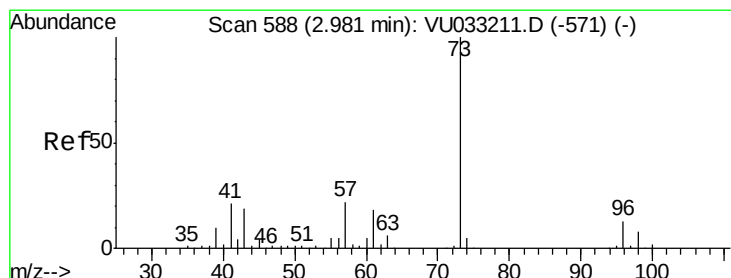
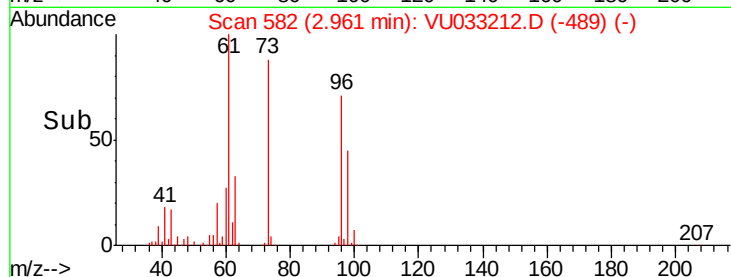
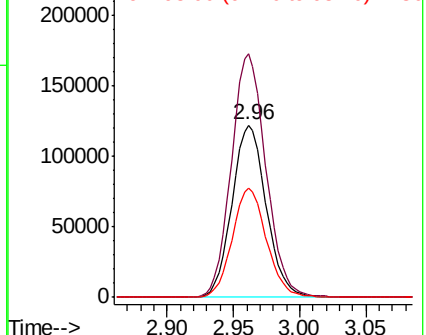
98 63.2 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU033212.D (-489) (-)

Ion 61.00 (60.70 to 61.70): VU033212.D (-489) (-)

Ion 98.00 (97.70 to 98.70): VU033212.D (-489) (-)



#18

Methyl tert-butyl Ether

Concen: 101.889 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

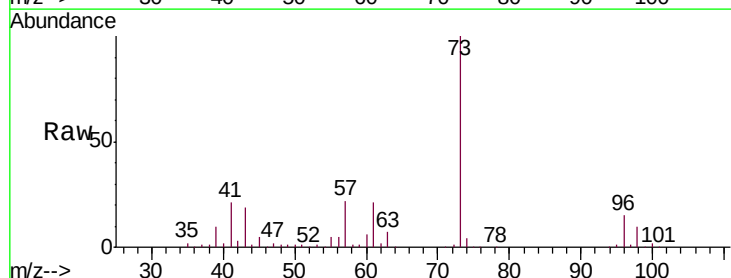
Tgt Ion: 73 Resp: 698356

Ion Ratio Lower Upper

73 100

43 19.2 15.7 23.5

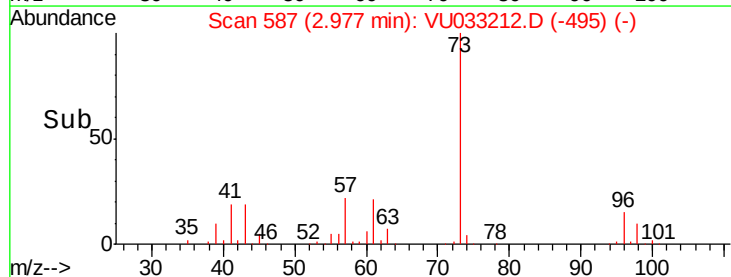
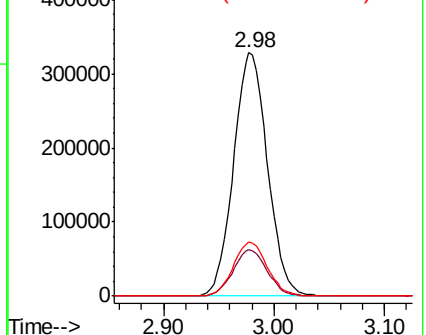
57 22.1 17.8 26.6

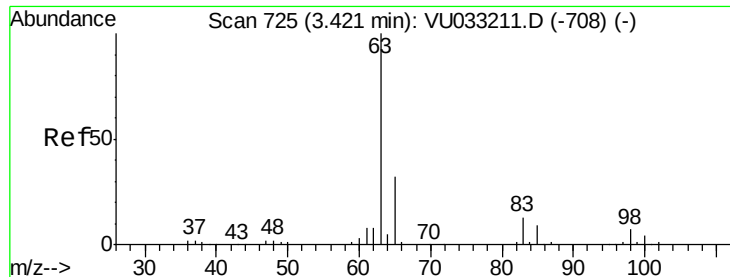


Abundance Ion 73.00 (72.70 to 73.70): VU033212.D (-495) (-)

Ion 43.00 (42.70 to 43.70): VU033212.D (-495) (-)

Ion 57.00 (56.70 to 57.70): VU033212.D (-495) (-)

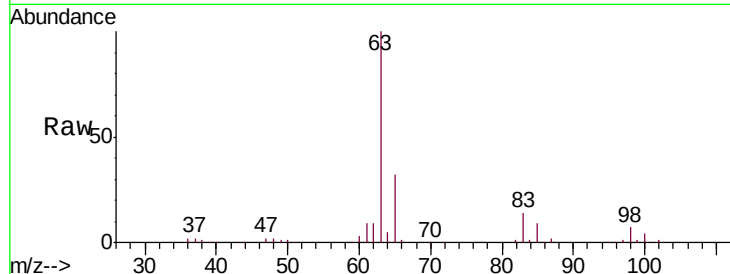




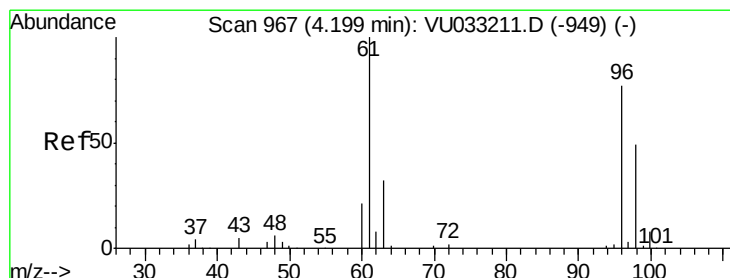
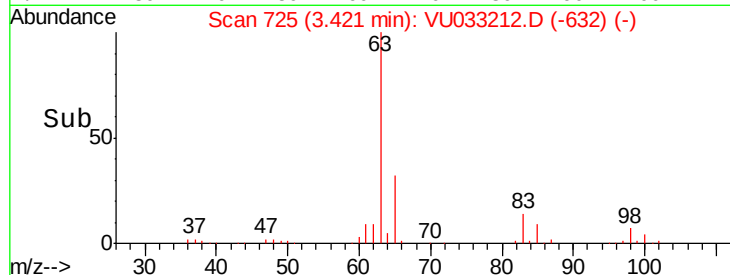
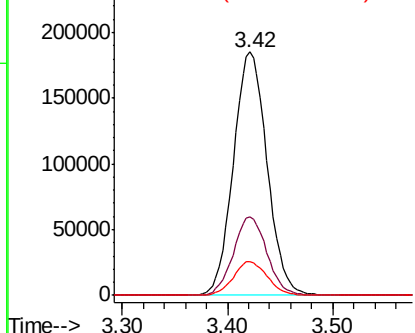
#19
 1,1-Dichloroethane
 Concen: 100.390 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU033212.D
 Acq: 12 Jul 2019 10:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10035

Tgt Ion: 63 Resp: 410671
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.3 41.5
 83 13.9 9.3 17.3

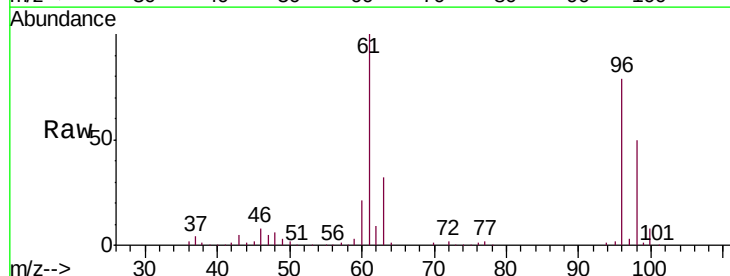


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

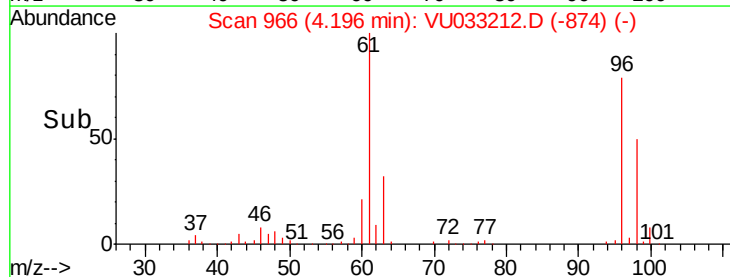
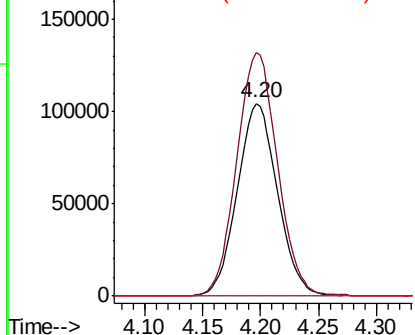


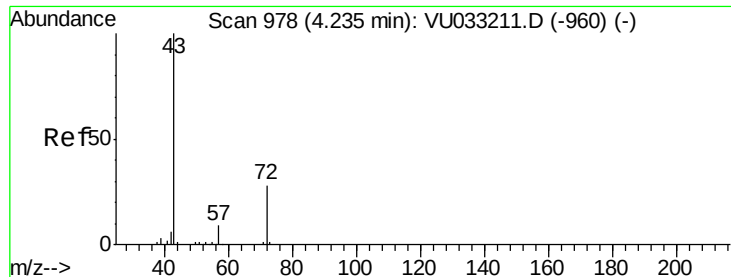
#20
 cis-1,2-Dichloroethene
 Concen: 106.977 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VU033212.D
 Acq: 12 Jul 2019 10:27

Tgt Ion: 96 Resp: 252371
 Ion Ratio Lower Upper
 96 100
 61 126.5 91.1 169.1
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 171.792 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

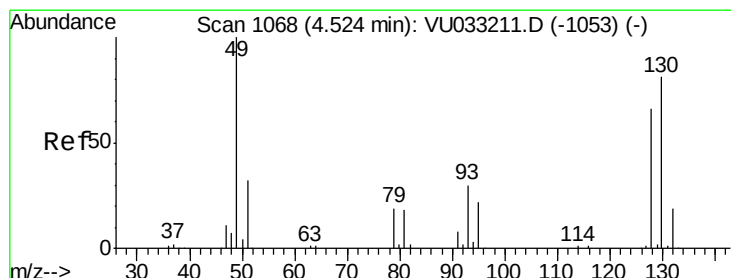
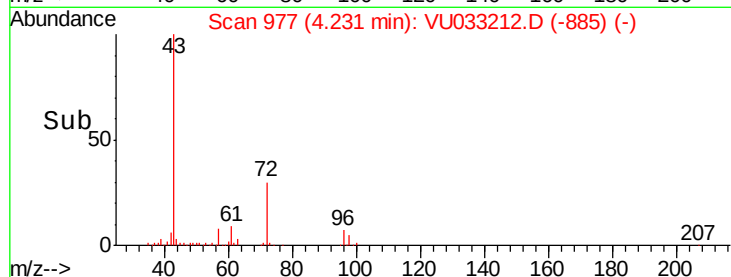
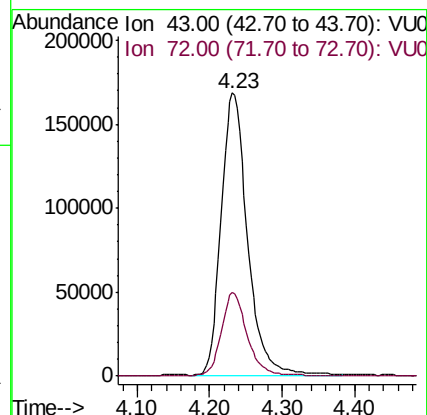
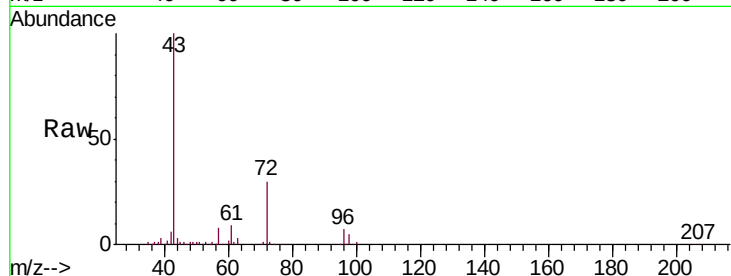
VSTD10035

Tgt Ion: 43 Resp: 422652

Ion Ratio Lower Upper

43 100

72 29.2 14.4 43.2



#23

Bromochloromethane

Concen: 102.845 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Tgt Ion: 128 Resp: 125521

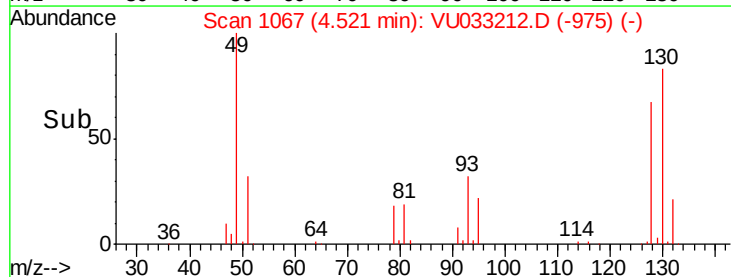
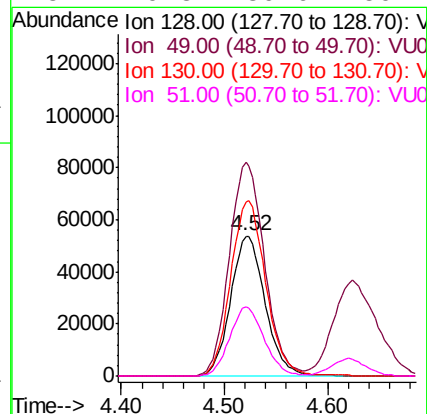
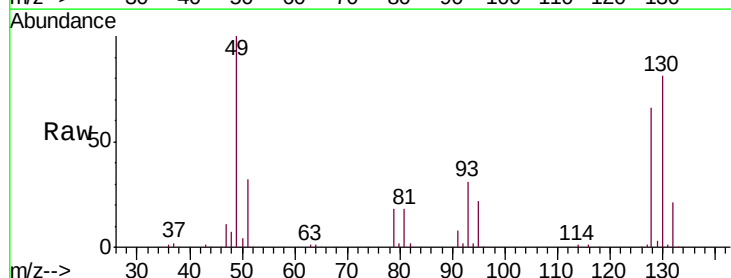
Ion Ratio Lower Upper

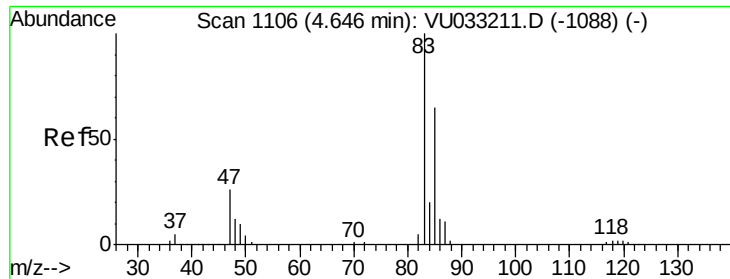
128 100

49 152.5 107.2 199.2

130 124.2 87.0 161.6

51 49.3 39.6 59.4





#25

Chloroform

Concen: 102.896 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

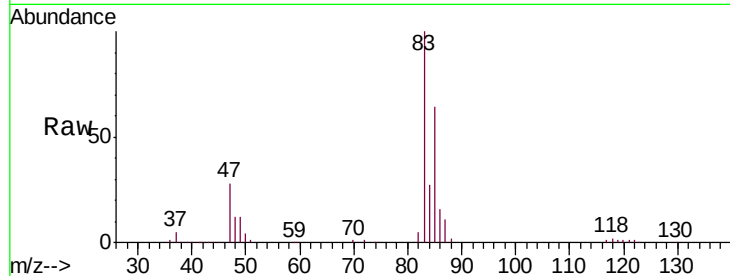
VSTD10035

Tgt Ion: 83 Resp: 436606

Ion Ratio Lower Upper

83 100

85 64.3 45.4 84.4



Abundance Ion 83.00 (82.70 to 83.70): VU033211.D (-1088) (-)

Ion 85.00 (84.70 to 85.70): VU033211.D (-1088) (-)

4.65

200000

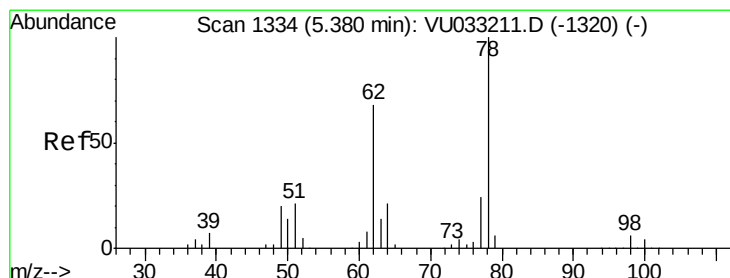
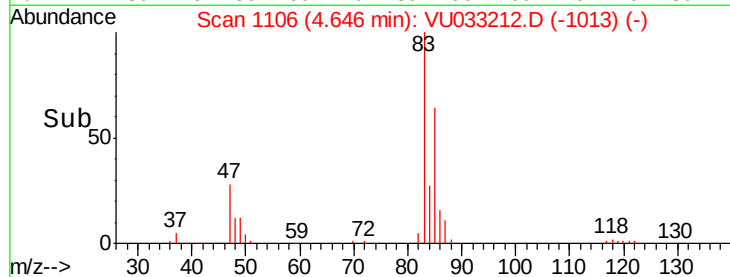
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 100.203 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VU033212.D

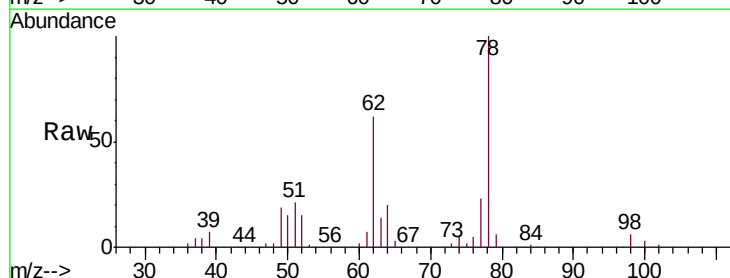
Acq: 12 Jul 2019 10:27

Tgt Ion: 62 Resp: 345855

Ion Ratio Lower Upper

62 100

98 9.0 7.0 10.6



Abundance Ion 62.00 (61.70 to 62.70): VU033211.D (-1320) (-)

Ion 98.00 (97.70 to 98.70): VU033211.D (-1320) (-)

5.38

200000

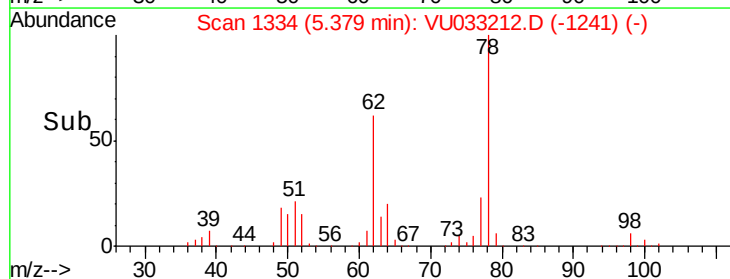
150000

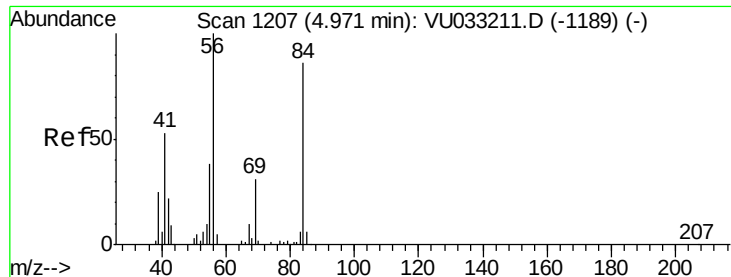
100000

50000

0

Time-->

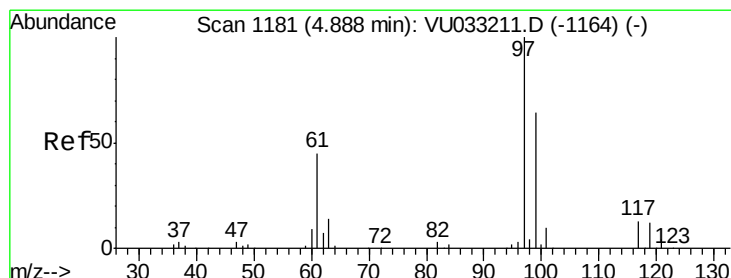
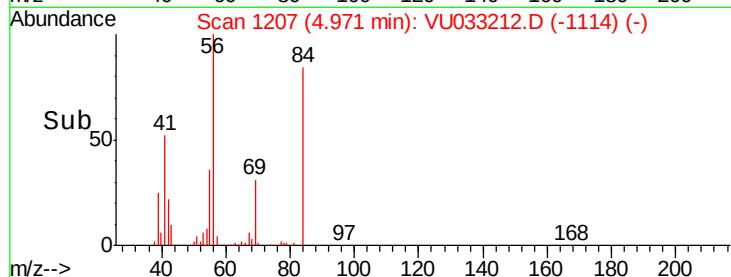
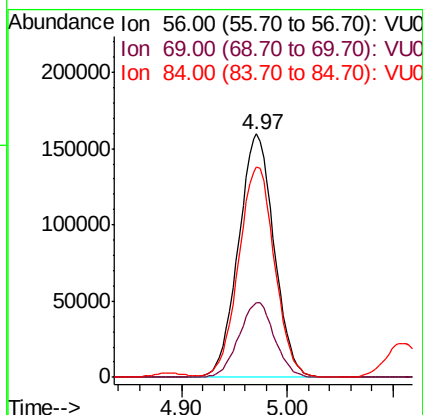
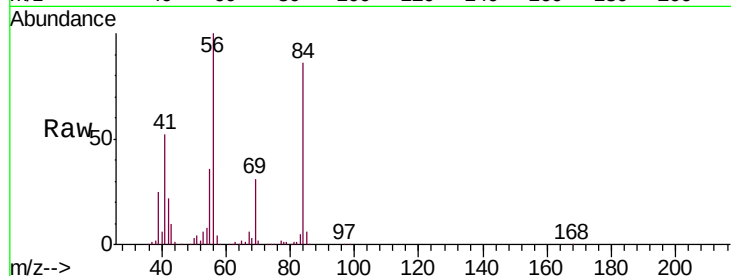




#29
Cyclohexane
Concen: 102.104 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033212.D
Acq: 12 Jul 2019 10:27

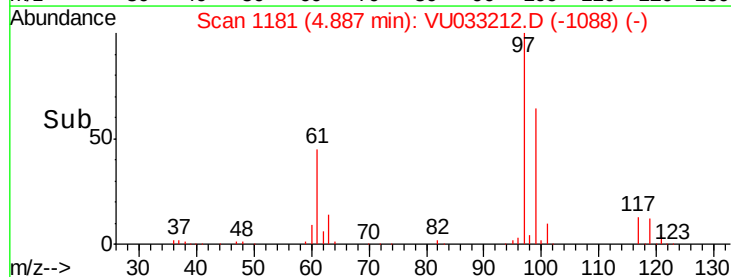
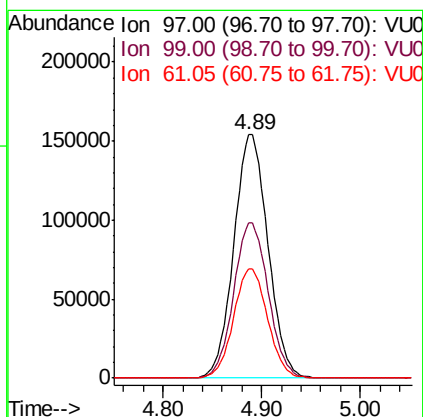
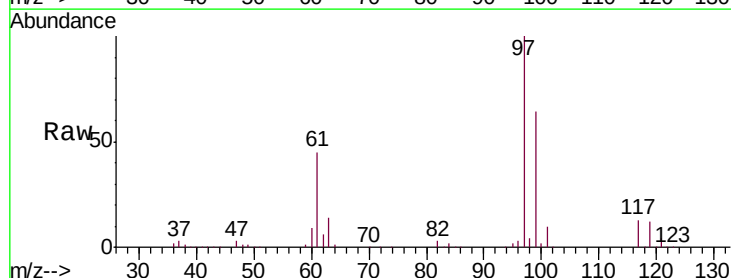
Instrument :
MSVOA_U
ClientSampleId :
VSTD10035

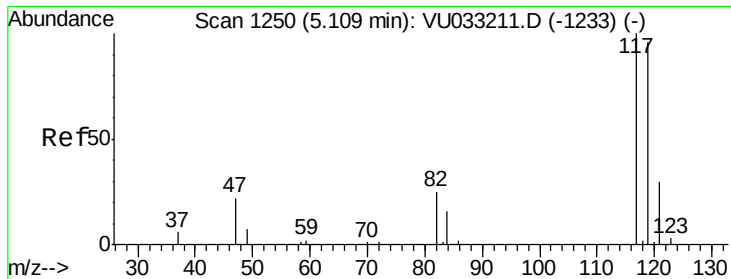
Tgt Ion: 56 Resp: 374768
Ion Ratio Lower Upper
56 100
69 30.7 24.7 37.1
84 87.4 70.2 105.2



#30
1,1,1-Trichloroethane
Concen: 97.060 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU033212.D
Acq: 12 Jul 2019 10:27

Tgt Ion: 97 Resp: 370589
Ion Ratio Lower Upper
97 100
99 64.5 51.5 77.3
61 44.8 36.4 54.6





#31

Carbon tetrachloride

Concen: 94.874 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

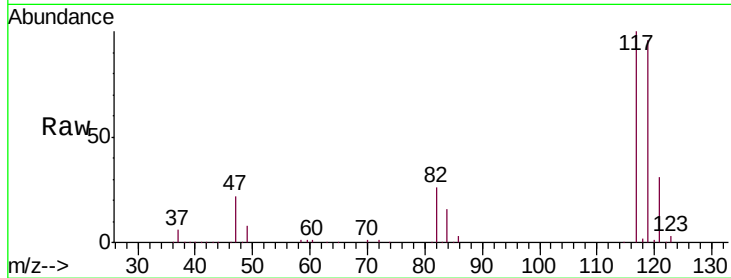
VSTD10035

Tgt Ion:117 Resp: 327819

Ion Ratio Lower Upper

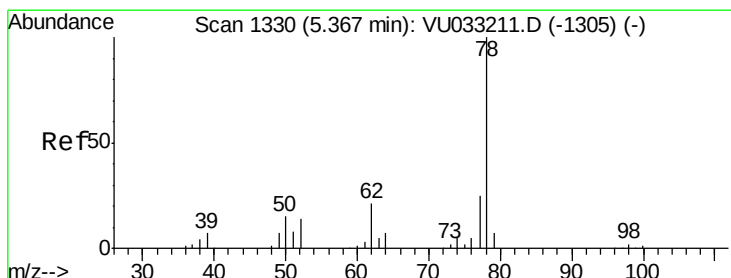
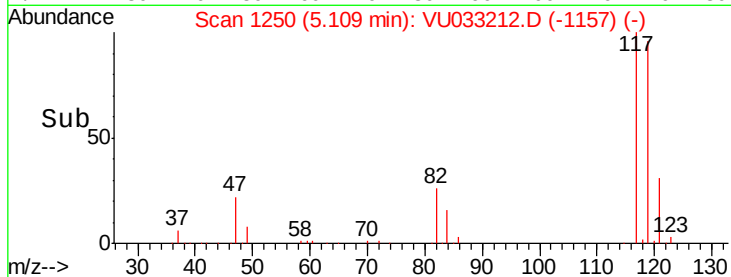
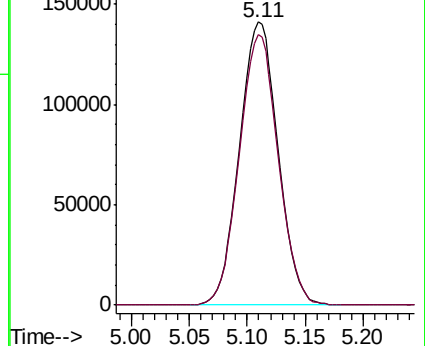
117 100

119 96.3 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 103.544 ug/L

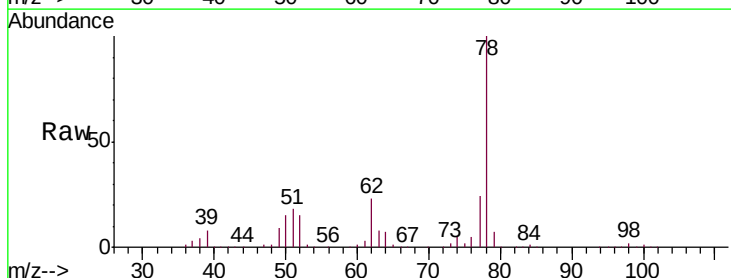
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

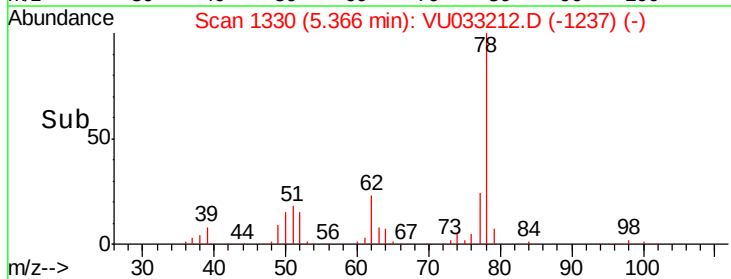
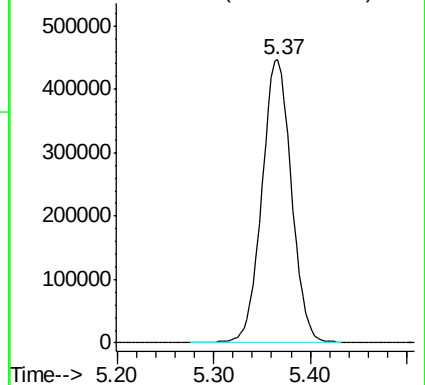
Lab File: VU033212.D

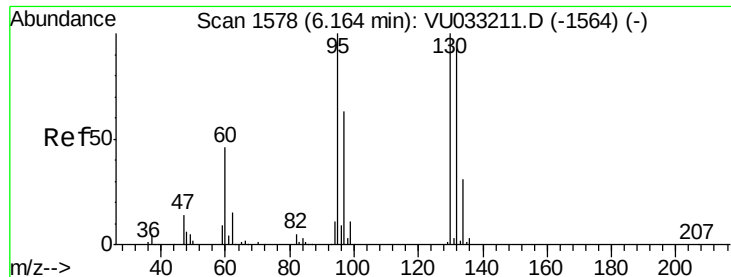
Acq: 12 Jul 2019 10:27

Tgt Ion: 78 Resp: 949400



Abundance Ion 78.00 (77.70 to 78.70): VU0

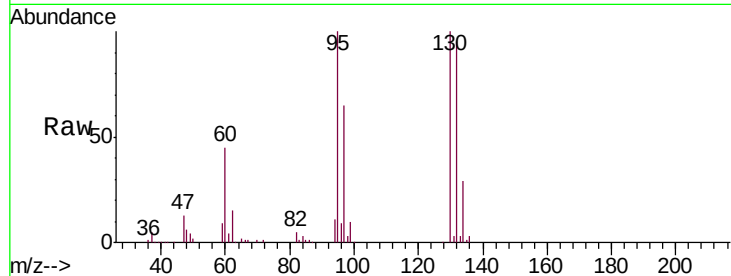




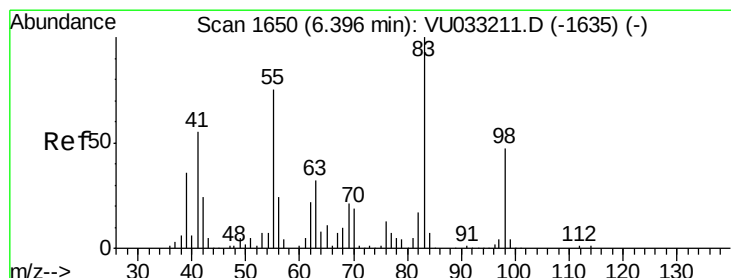
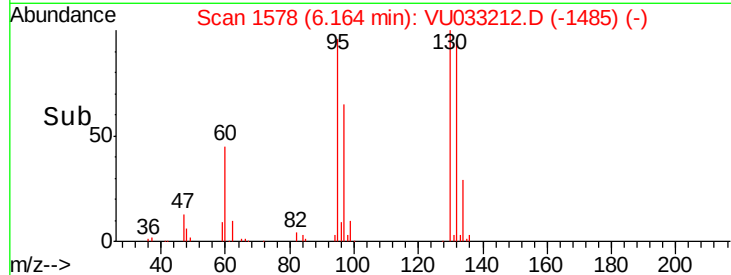
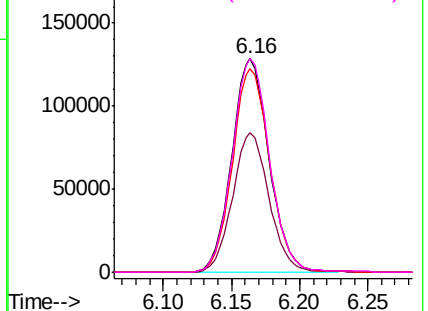
#34
 Trichloroethene
 Concen: 100.162 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033212.D
 Acq: 12 Jul 2019 10:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10035

Tgt Ion:	95	Resp:	243715
Ion	Ratio	Lower	Upper
95	100		
97	65.3	43.8	81.4
132	95.3	65.5	121.6
130	100.2	69.7	129.5

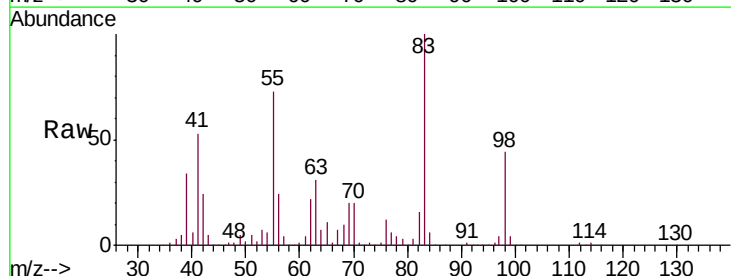


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

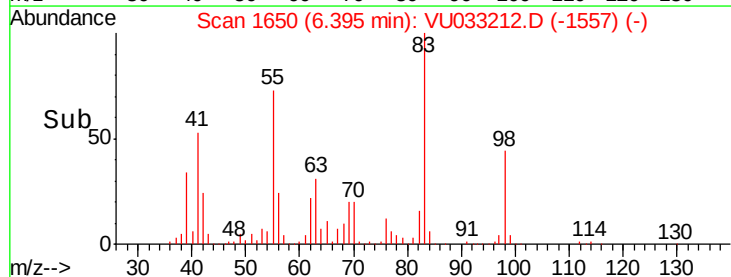
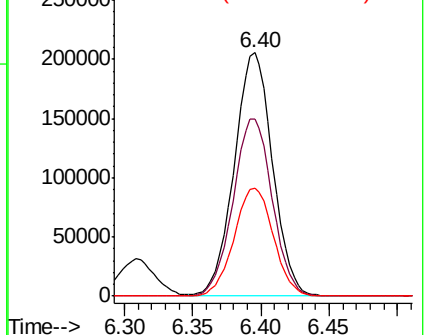


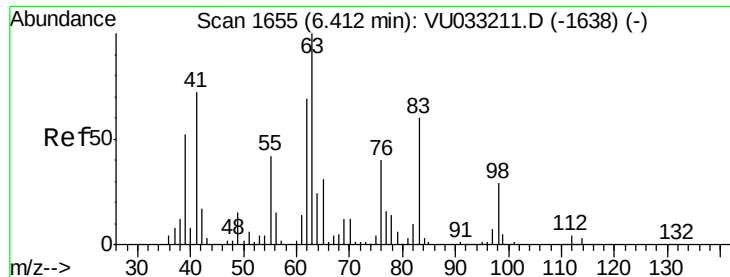
#35
 Methylcyclohexane
 Concen: 106.676 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033212.D
 Acq: 12 Jul 2019 10:27

Tgt Ion:	83	Resp:	401197
Ion	Ratio	Lower	Upper
83	100		
55	74.5	60.5	90.7
98	45.6	37.4	56.0



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

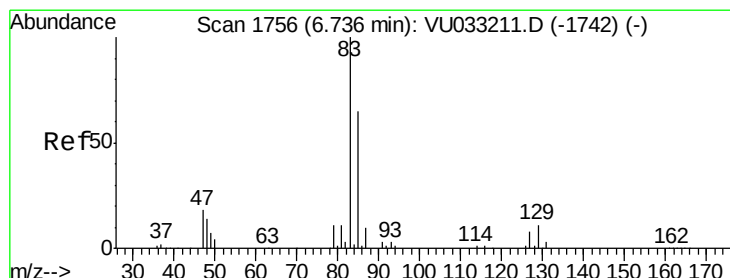
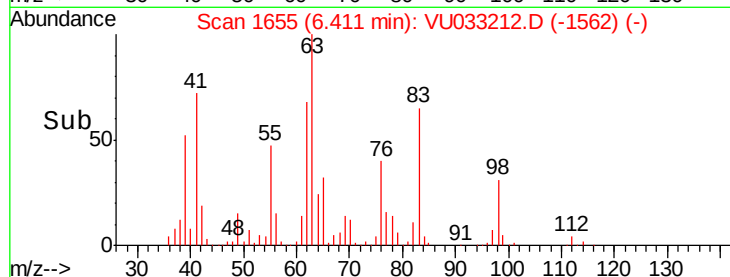
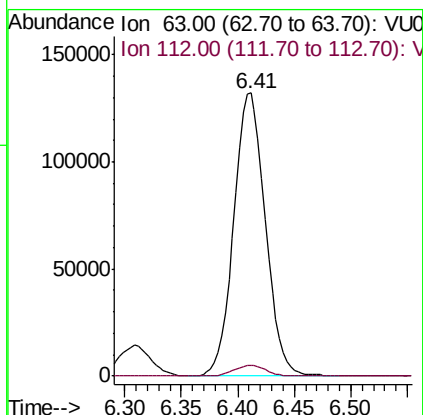
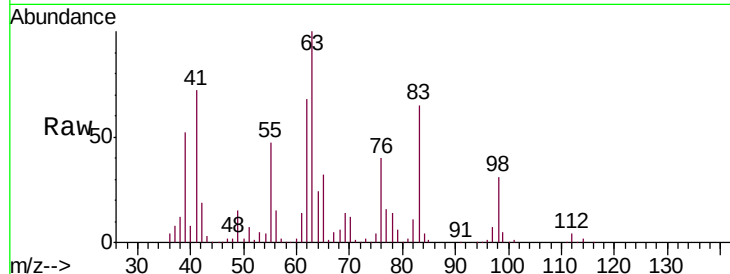




#37
 1,2-Dichloropropane
 Concen: 101.999 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033212.D
 Acq: 12 Jul 2019 10:27

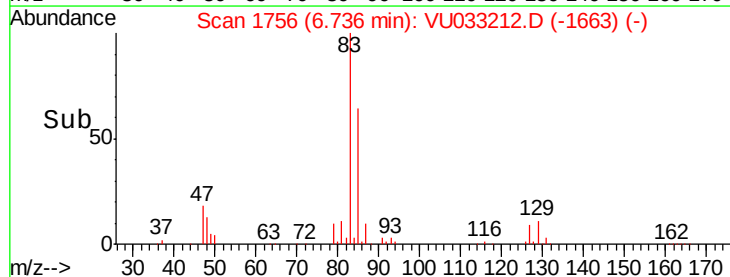
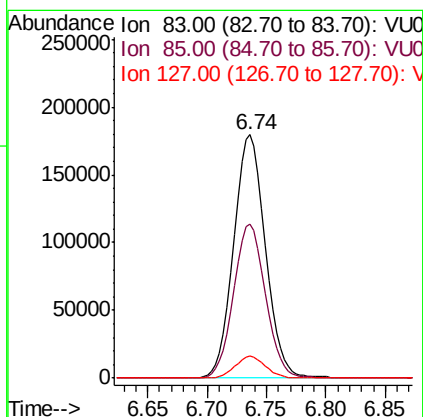
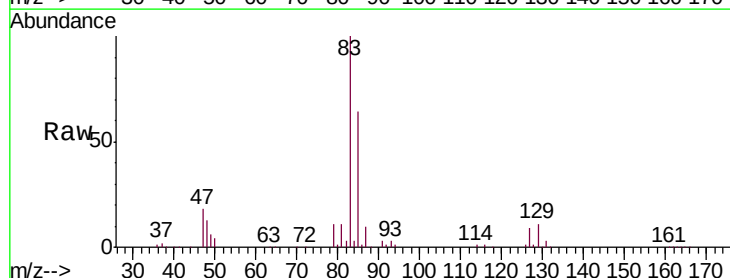
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10035

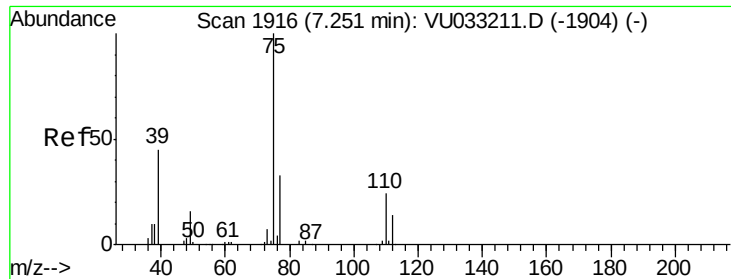
Tgt Ion: 63 Resp: 255490
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.2 4.8



#38
 Bromodichloromethane
 Concen: 99.082 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033212.D
 Acq: 12 Jul 2019 10:27

Tgt Ion: 83 Resp: 331806
 Ion Ratio Lower Upper
 83 100
 85 63.5 45.8 85.0
 127 8.9 6.8 10.2



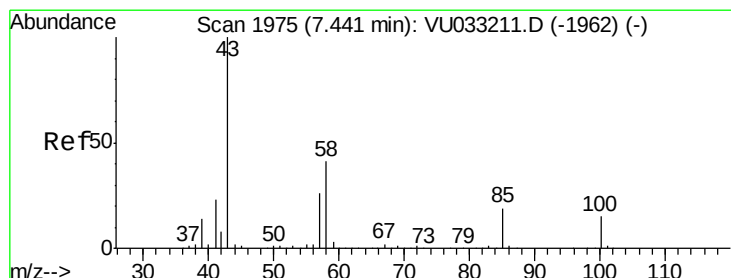
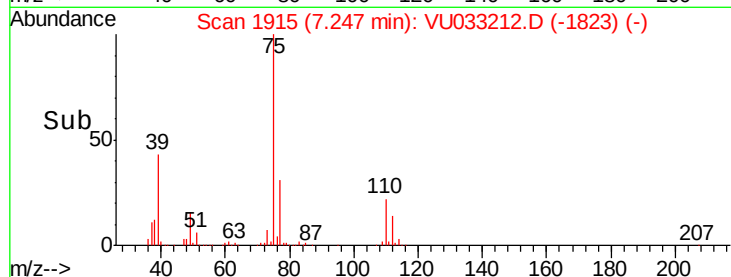
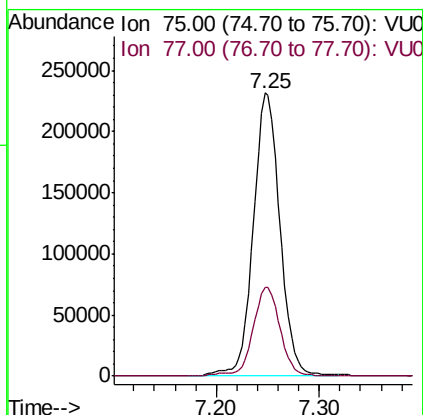
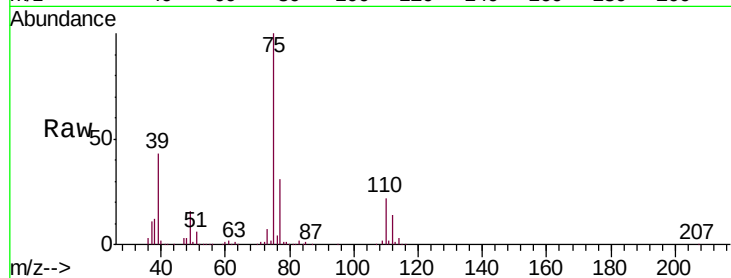


#39

cis-1,3-Dichloropropene
 Concen: 107.296 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU033212.D
 Acq: 12 Jul 2019 10:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10035

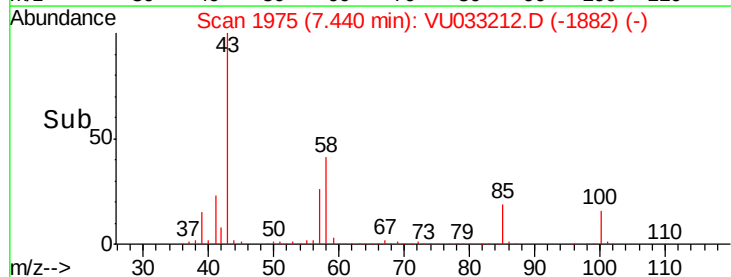
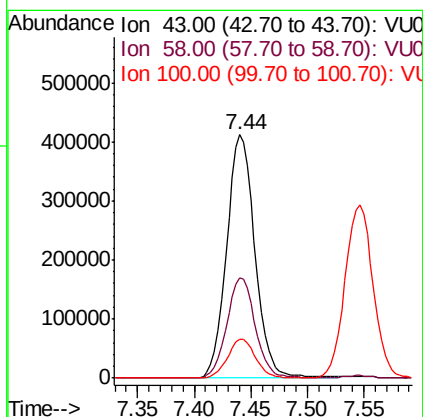
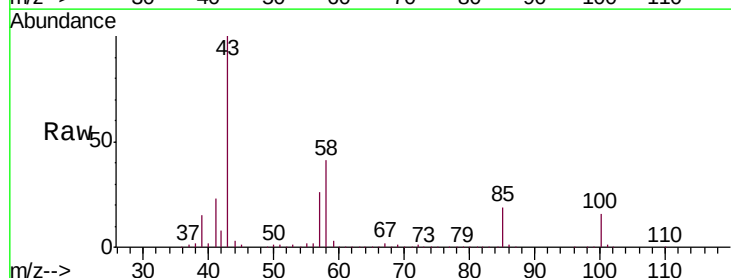
Tgt Ion: 75 Resp: 414804
 Ion Ratio Lower Upper
 75 100
 77 31.3 23.1 42.9

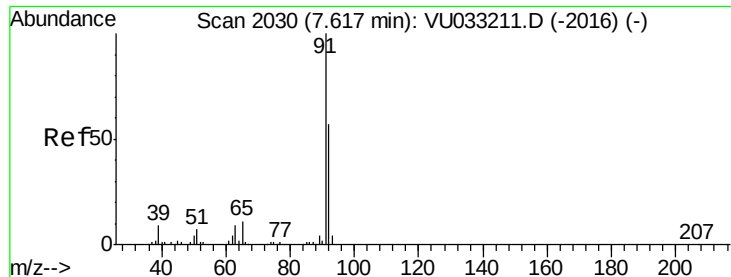


#40

4-Methyl-2-pentanone
 Concen: 184.310 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU033212.D
 Acq: 12 Jul 2019 10:27

Tgt Ion: 43 Resp: 717337
 Ion Ratio Lower Upper
 43 100
 58 41.6 33.3 49.9
 100 15.9 12.1 18.1





#42

Toluene

Concen: 106.125 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

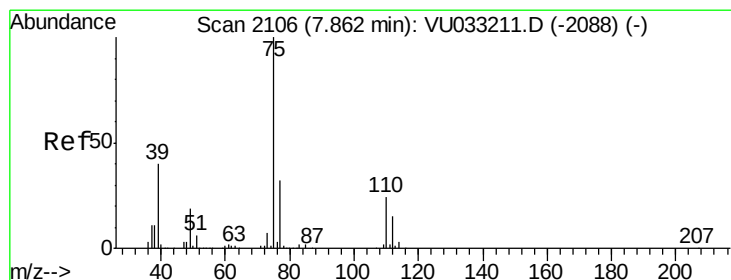
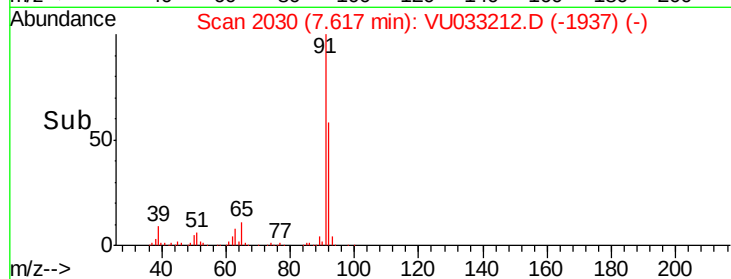
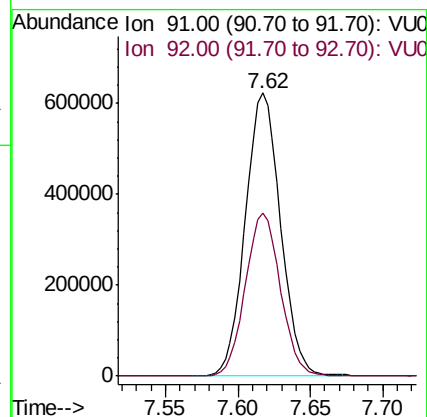
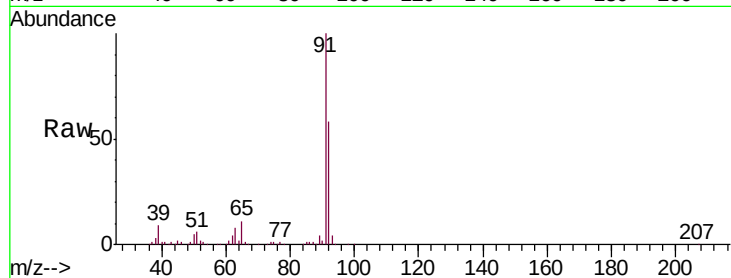
VSTD10035

Tgt Ion: 91 Resp: 1052964

Ion Ratio Lower Upper

91 100

92 57.6 39.8 74.0



#44

trans-1,3-Dichloropropene

Concen: 102.193 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033212.D

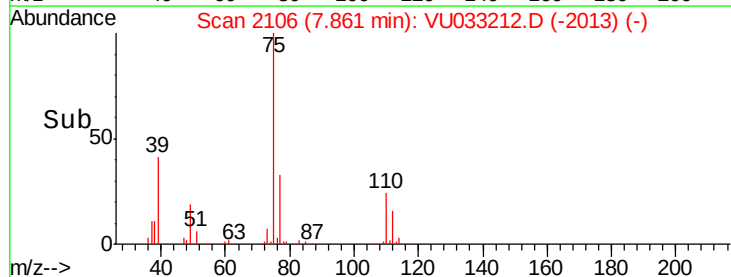
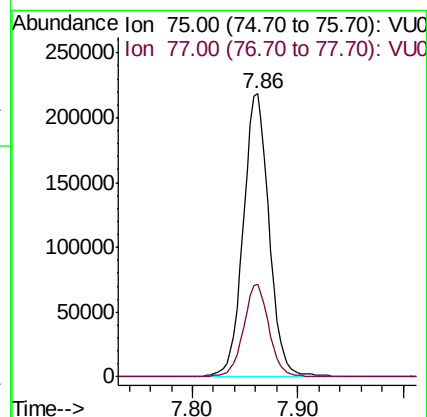
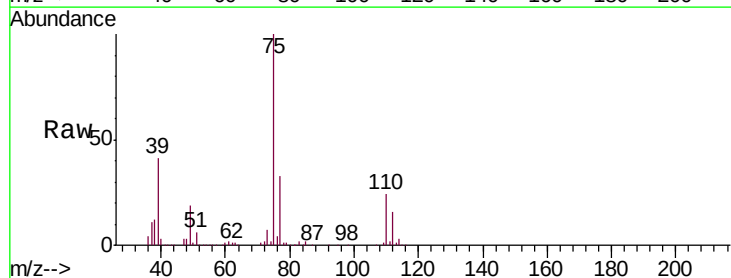
Acq: 12 Jul 2019 10:27

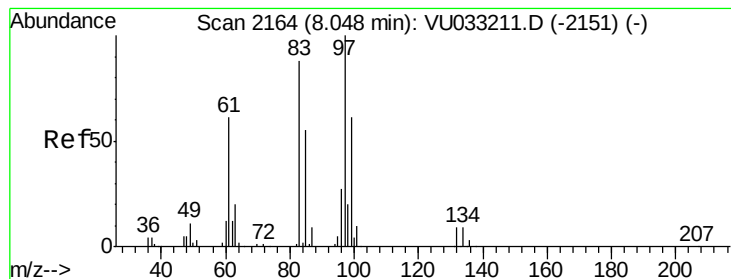
Tgt Ion: 75 Resp: 372088

Ion Ratio Lower Upper

75 100

77 32.7 22.4 41.6





#45

1,1,2-Trichloroethane

Concen: 103.224 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD10035

Tgt Ion: 97 Resp: 241140

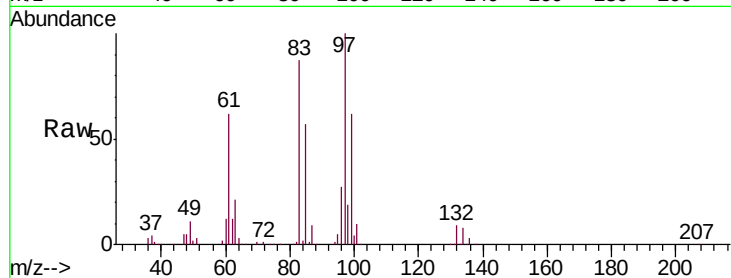
Ion Ratio Lower Upper

97 100

99 61.8 43.0 79.8

83 86.9 61.5 114.3

85 56.8 38.8 72.0



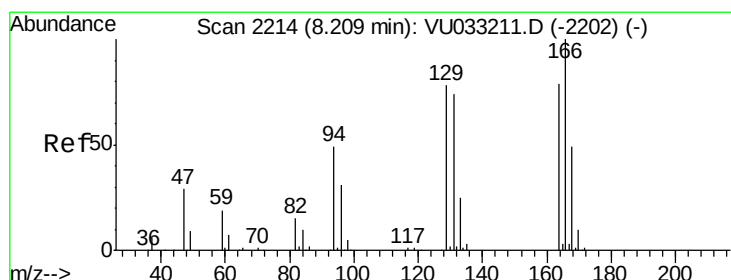
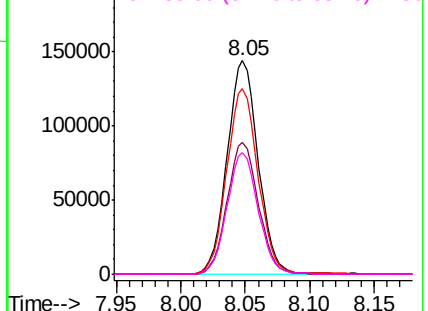
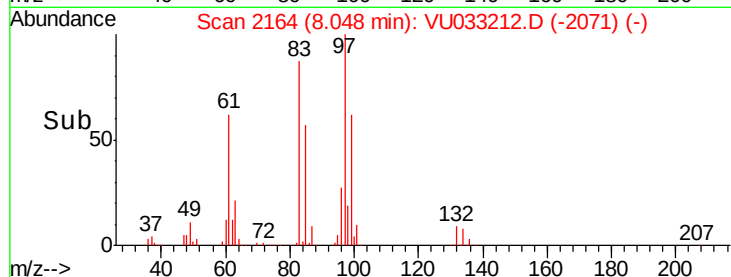
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 97.668 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Tgt Ion:164 Resp: 192897

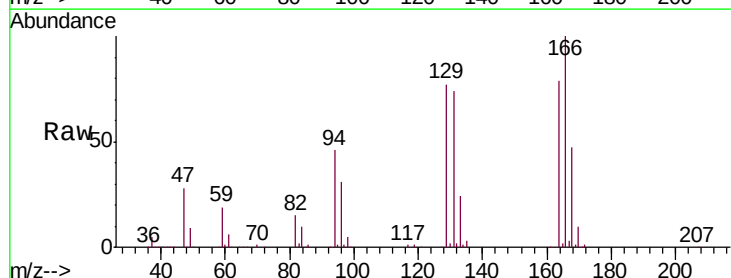
Ion Ratio Lower Upper

164 100

129 97.5 69.6 129.2

131 94.0 65.7 122.1

166 126.4 88.5 164.4



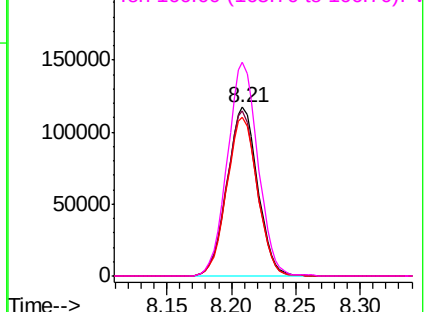
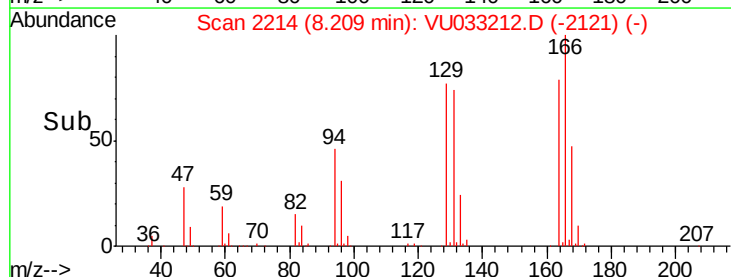
Abundance

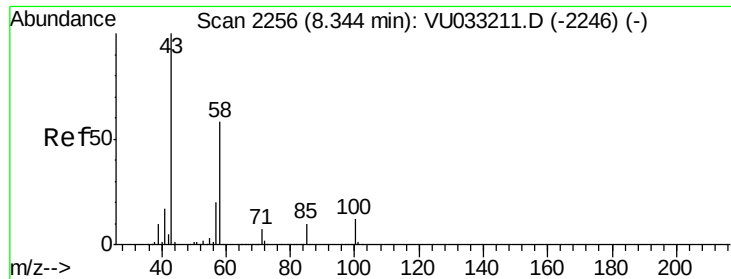
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

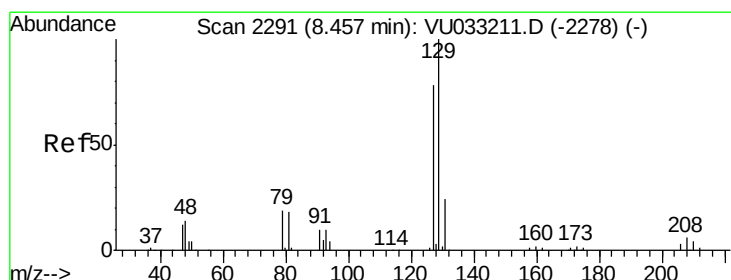
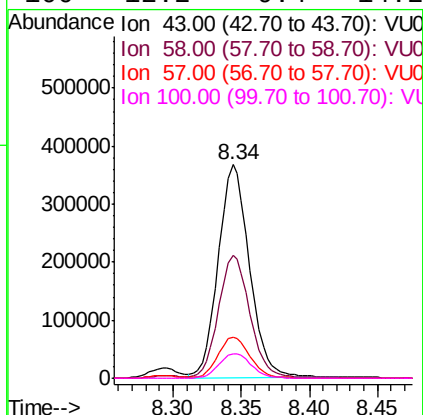
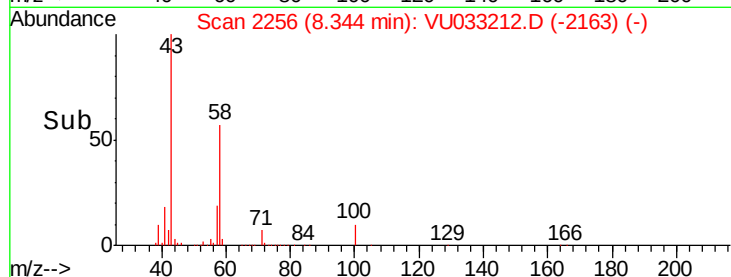
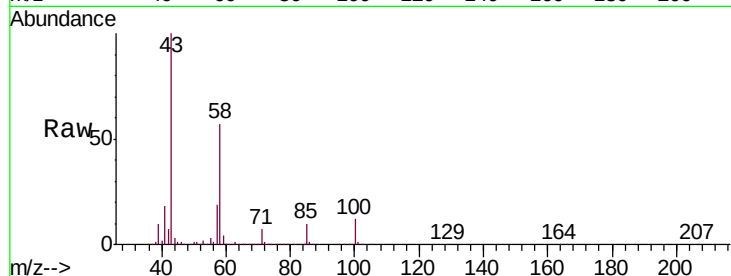




#48
2-Hexanone
Concen: 172.656 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU033212.D
Acq: 12 Jul 2019 10:27

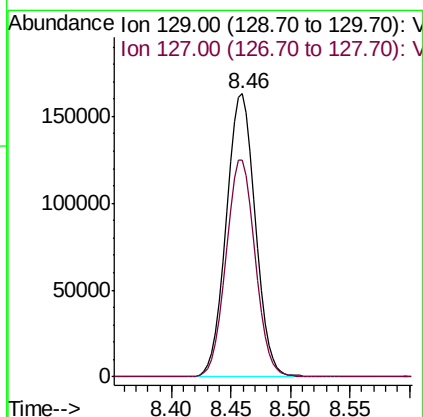
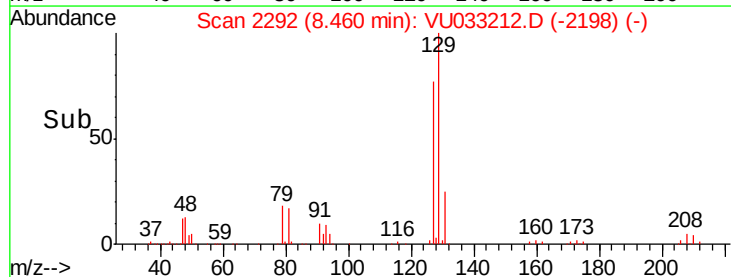
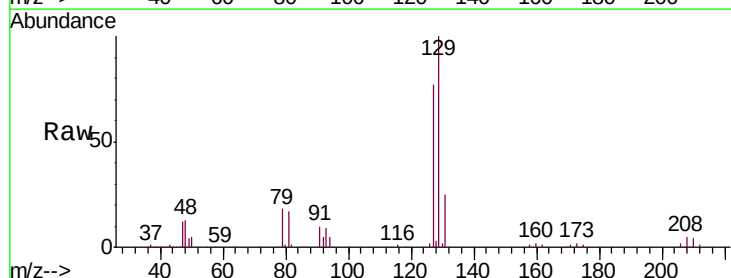
Instrument :
MSVOA_U
ClientSampleId :
VSTD10035

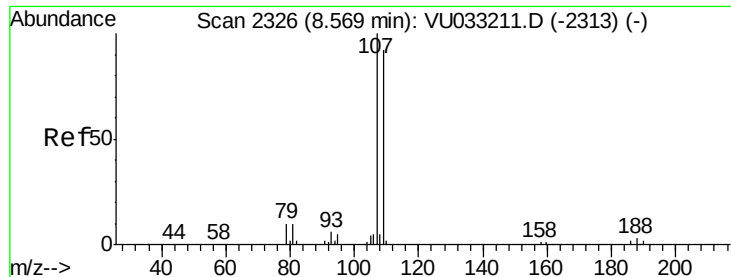
Tgt Ion: 43 Resp: 584777
Ion Ratio Lower Upper
43 100
58 58.9 46.1 69.1
57 19.3 15.8 23.8
100 12.2 9.4 14.2



#49
Dibromochloromethane
Concen: 99.964 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033212.D
Acq: 12 Jul 2019 10:27

Tgt Ion: 129 Resp: 277408
Ion Ratio Lower Upper
129 100
127 76.8 54.3 100.9

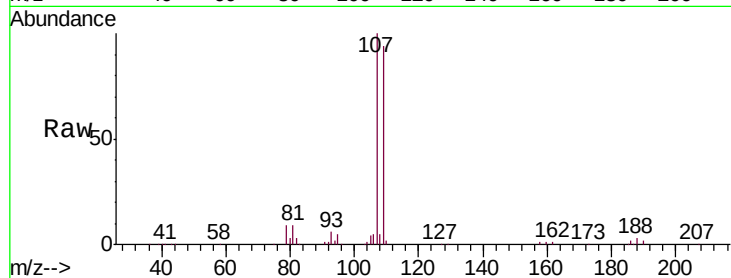




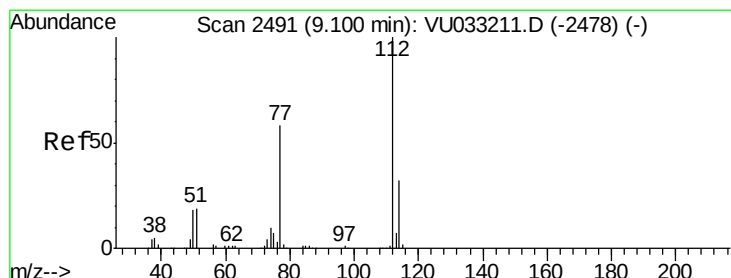
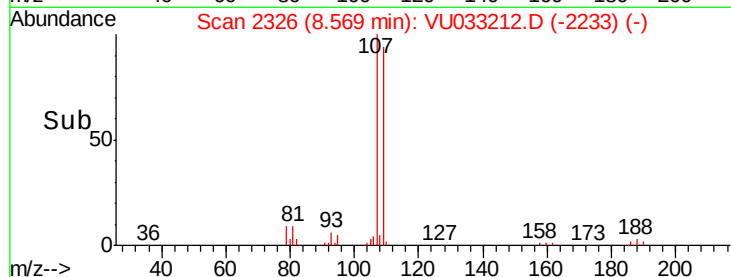
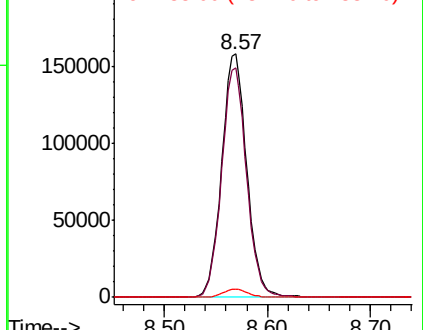
#50
1,2-Dibromoethane
Concen: 103.104 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU033212.D
Acq: 12 Jul 2019 10:27

Instrument :
MSVOA_U
ClientSampleId :
VSTD10035

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.1	64.2	119.2
188	3.4	2.6	4.0

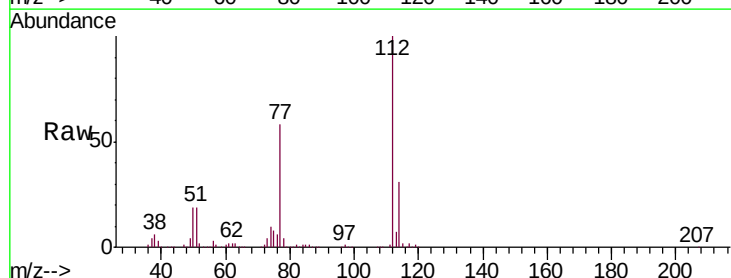


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

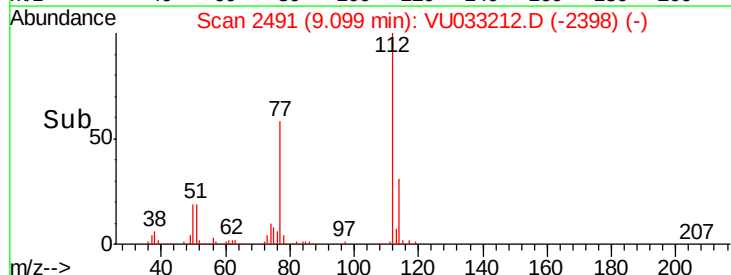
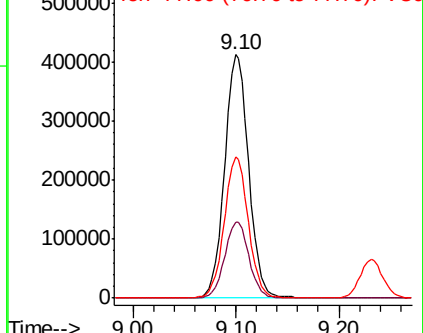


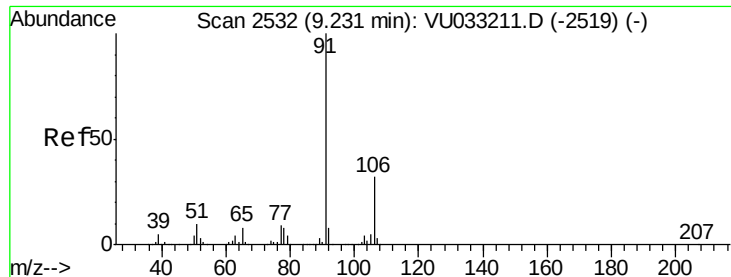
#51
Chlorobenzene
Concen: 102.664 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033212.D
Acq: 12 Jul 2019 10:27

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.4	22.3	41.3
77	57.9	47.2	70.8



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 105.890 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

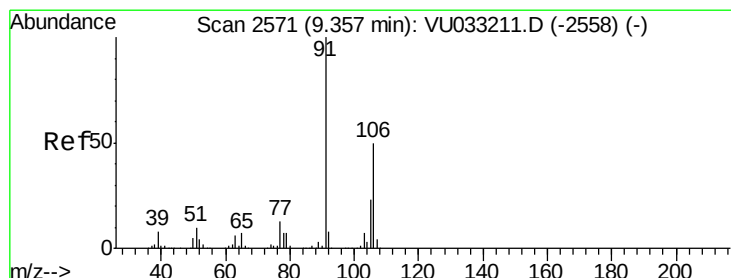
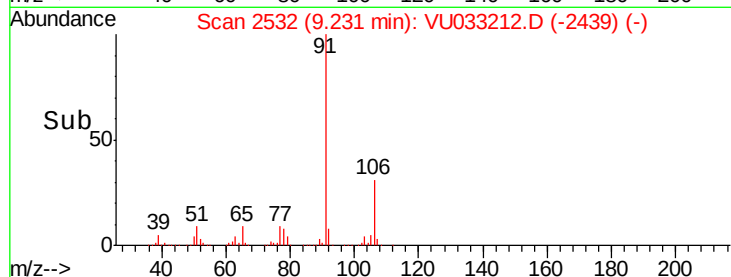
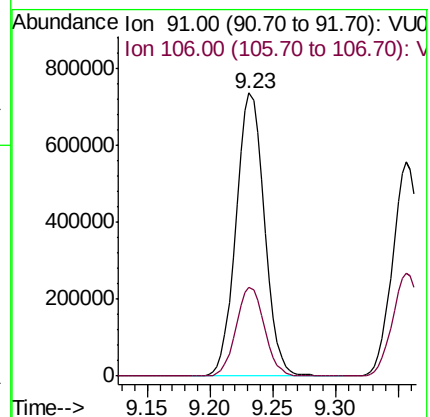
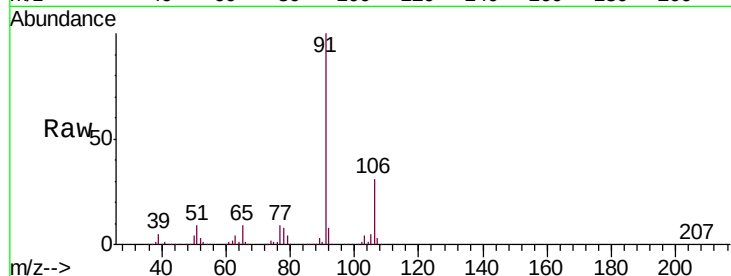
VSTD10035

Tgt Ion: 91 Resp: 1159320

Ion Ratio Lower Upper

91 100

106 31.3 22.2 41.2



#53

m,p-Xylene

Concen: 106.375 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033212.D

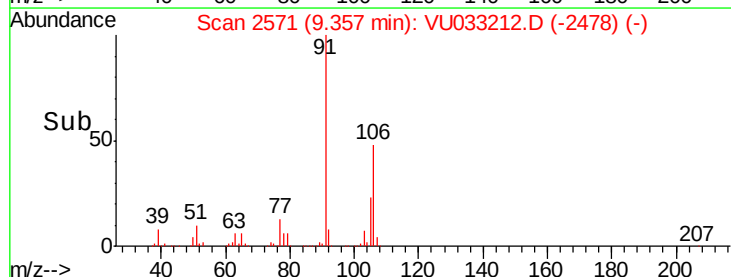
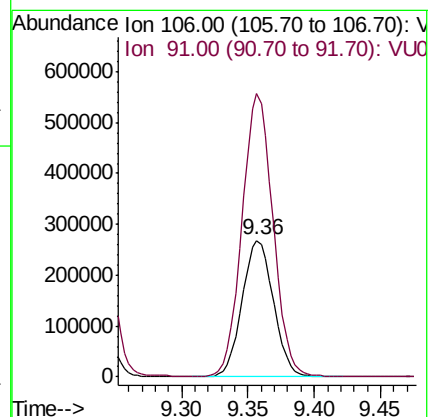
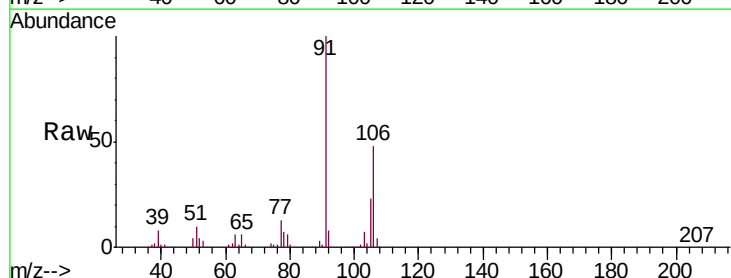
Acq: 12 Jul 2019 10:27

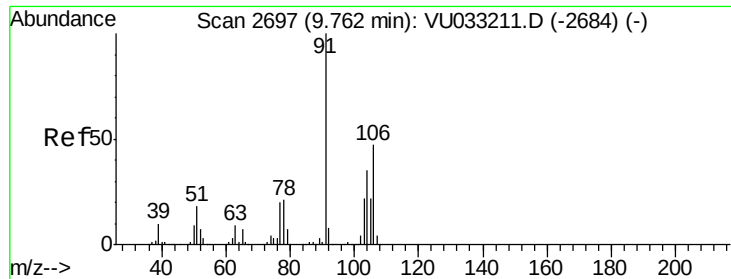
Tgt Ion: 106 Resp: 440203

Ion Ratio Lower Upper

106 100

91 207.0 141.3 262.3





#54

o-xylene

Concen: 109.220 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

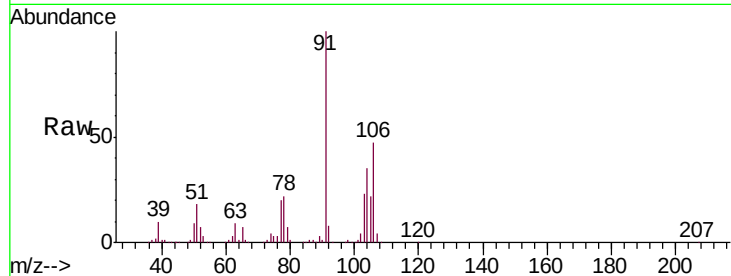
VSTD10035

Tgt Ion:106 Resp: 442325

Ion Ratio Lower Upper

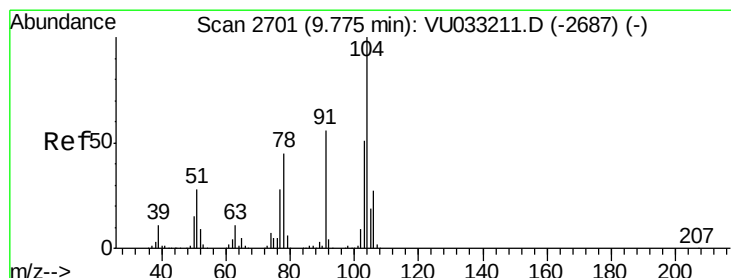
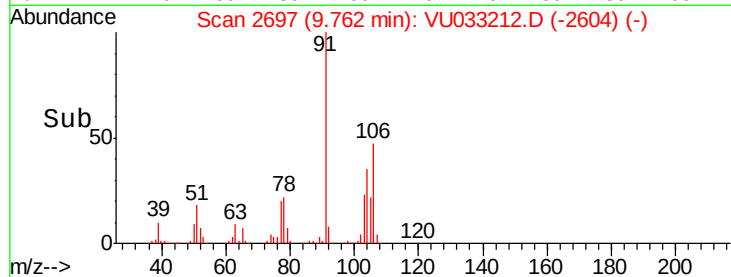
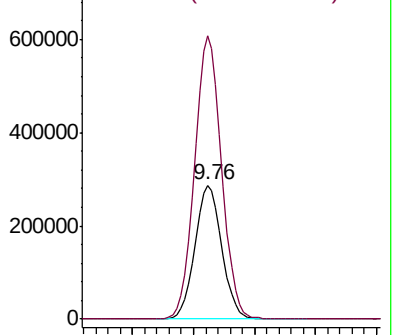
106 100

91 211.3 150.5 279.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 108.518 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033212.D

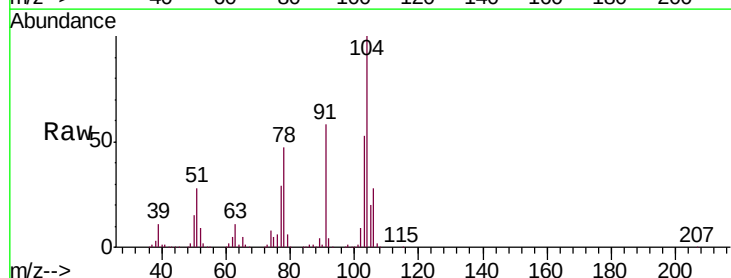
Acq: 12 Jul 2019 10:27

Tgt Ion:104 Resp: 760010

Ion Ratio Lower Upper

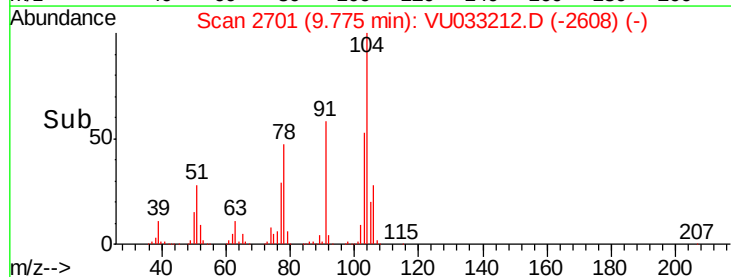
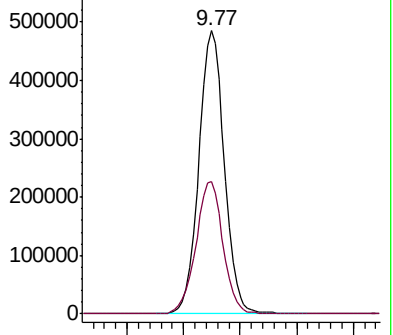
104 100

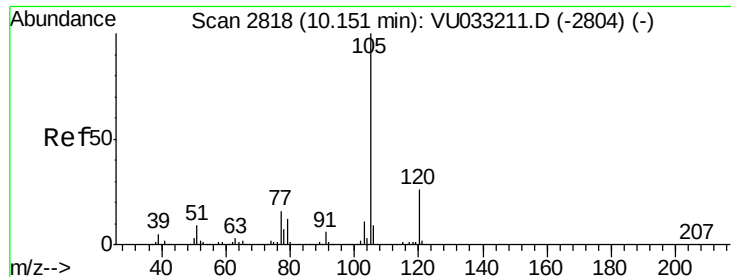
78 46.7 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 105.015 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD10035

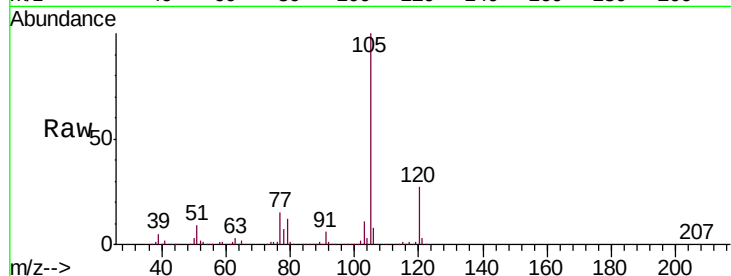
Tgt Ion:105 Resp: 1137949

Ion Ratio Lower Upper

105 100

120 26.6 21.2 31.8

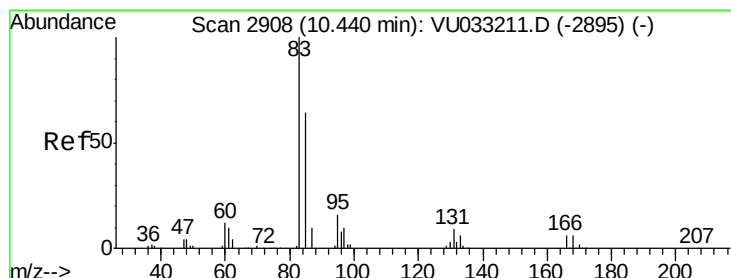
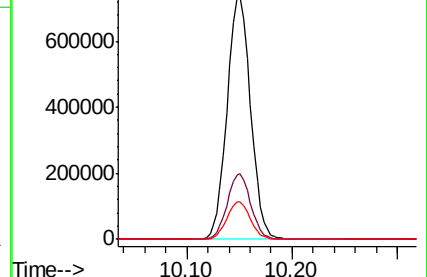
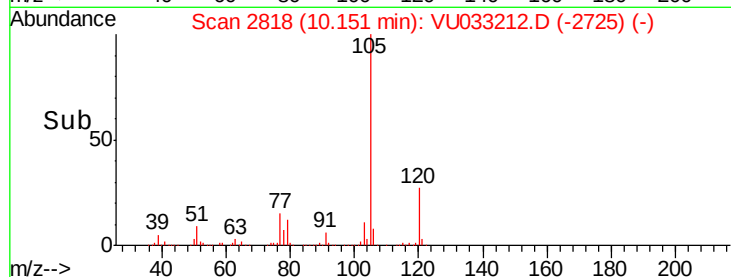
77 15.6 12.9 19.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 101.276 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

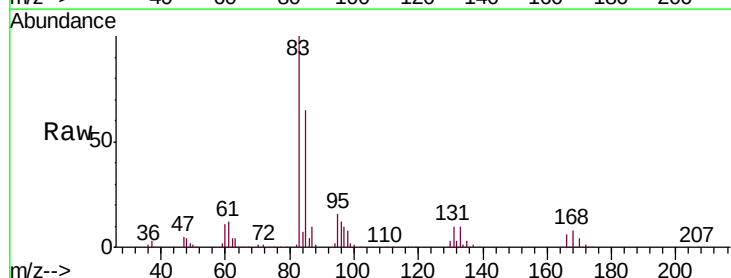
Tgt Ion: 83 Resp: 428896

Ion Ratio Lower Upper

83 100

85 65.2 44.9 83.3

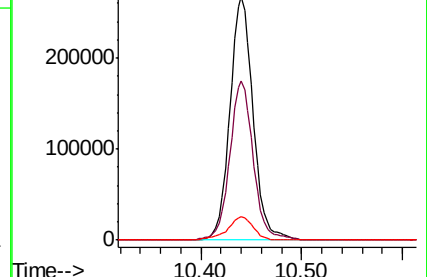
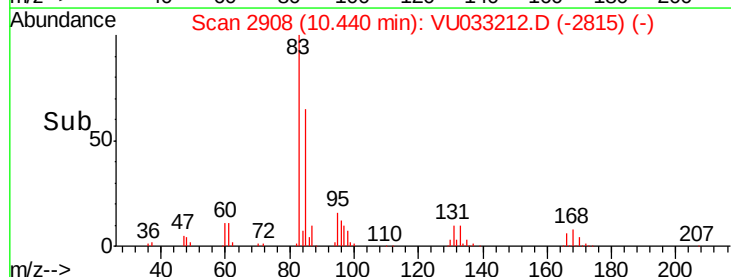
131 9.5 7.6 11.4

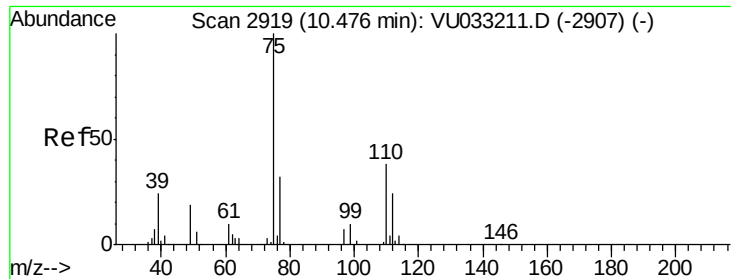


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 100.018 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

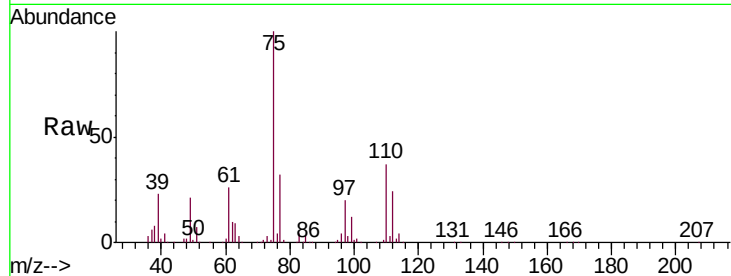
VSTD10035

Tgt Ion: 75 Resp: 333859

Ion Ratio Lower Upper

75 100

77 32.3 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU033211.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033211.D (-2907) (-)

10.48

200000

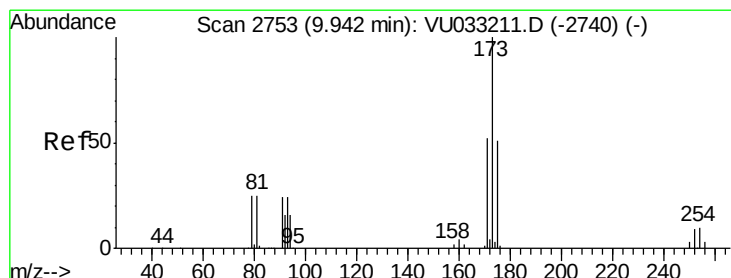
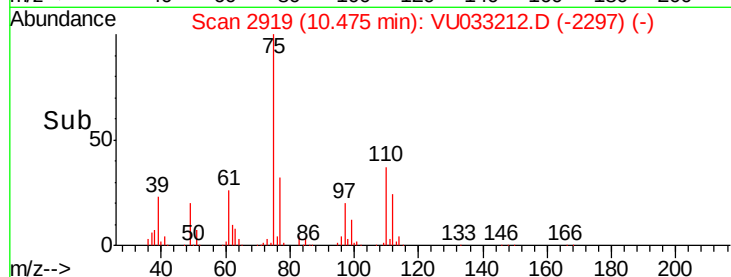
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 99.607 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

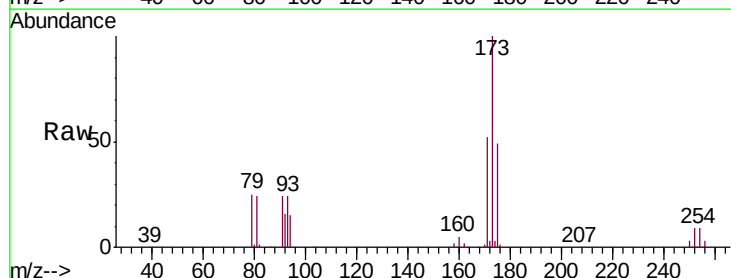
Tgt Ion: 173 Resp: 208686

Ion Ratio Lower Upper

173 100

175 48.8 40.0 60.0

254 9.0 7.3 10.9



Abundance Ion 173.00 (172.70 to 173.70): VU033211.D (-2740) (-)

Ion 175.00 (174.70 to 175.70): VU033211.D (-2740) (-)

Ion 254.00 (253.70 to 254.70): VU033211.D (-2740) (-)

9.94

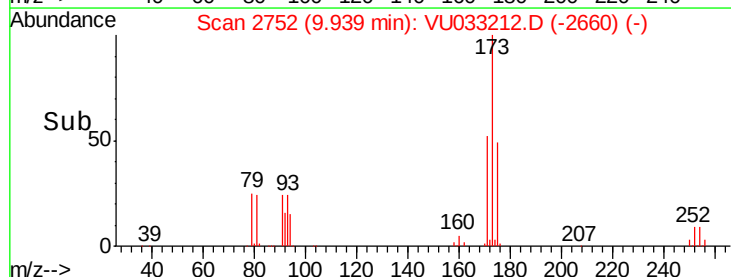
150000

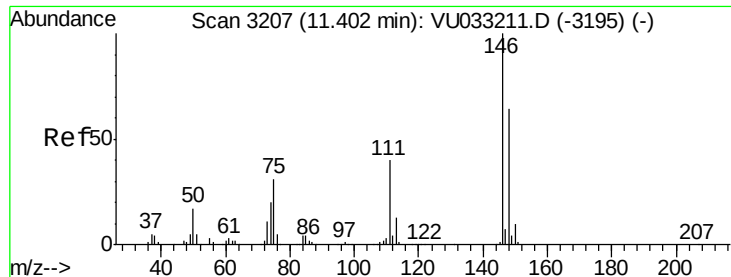
100000

50000

0

Time-->

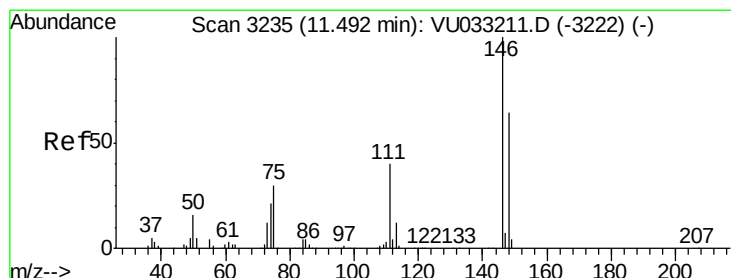
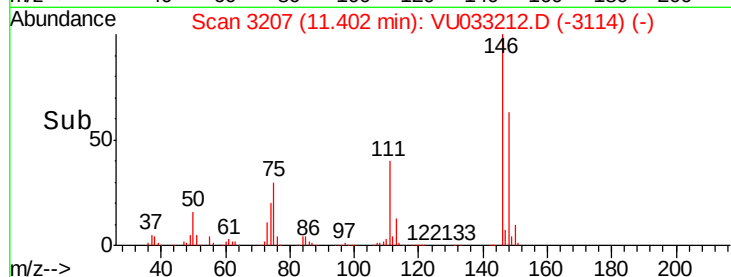
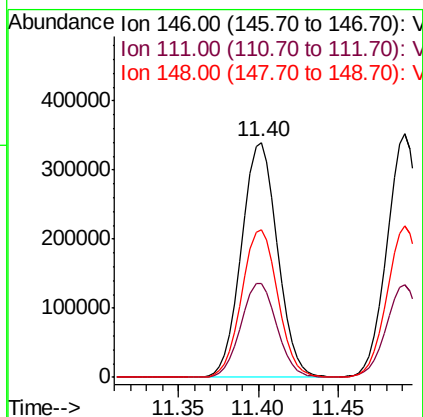
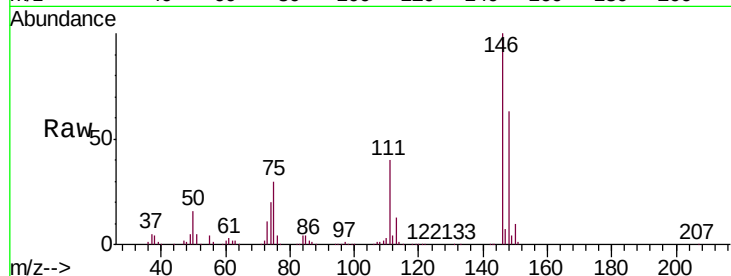




#62
 1,3-Dichlorobenzene
 Concen: 103.048 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. -0.00 min
 Lab File: VU033212.D
 Acq: 12 Jul 2019 10:27

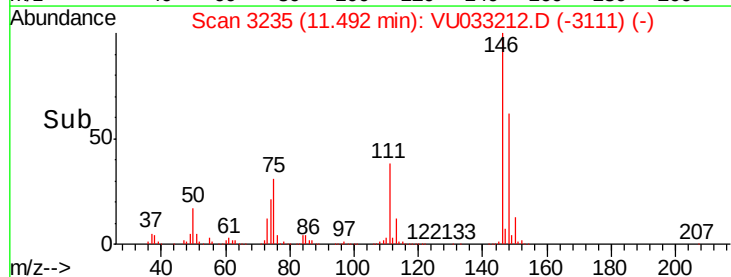
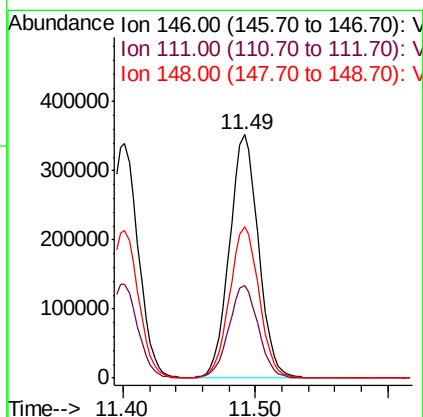
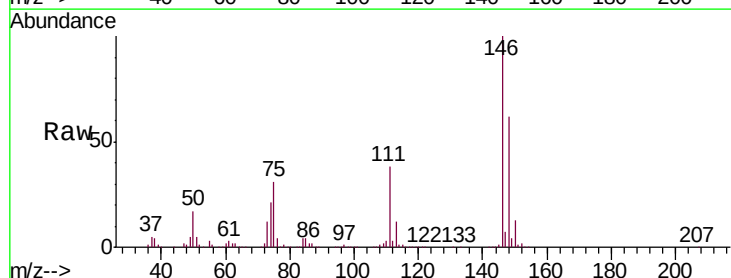
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10035

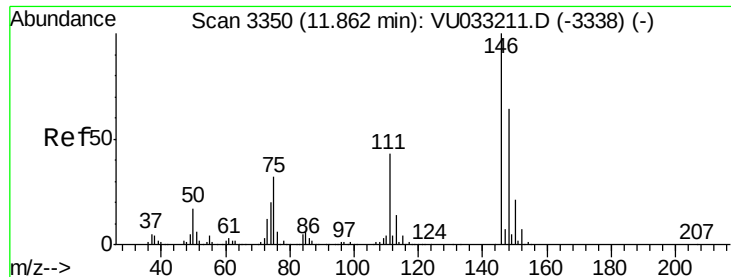
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.8	28.0	52.0
148	63.0	44.7	83.1



#63
 1,4-Dichlorobenzene
 Concen: 101.924 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU033212.D
 Acq: 12 Jul 2019 10:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.9	27.8	51.6
148	62.3	44.6	82.8





#65

1,2-Dichlorobenzene

Concen: 101.341 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD10035

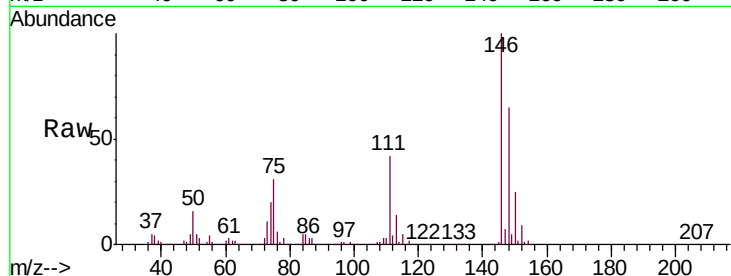
Tgt Ion:146 Resp: 524527

Ion Ratio Lower Upper

146 100

111 42.0 34.3 51.5

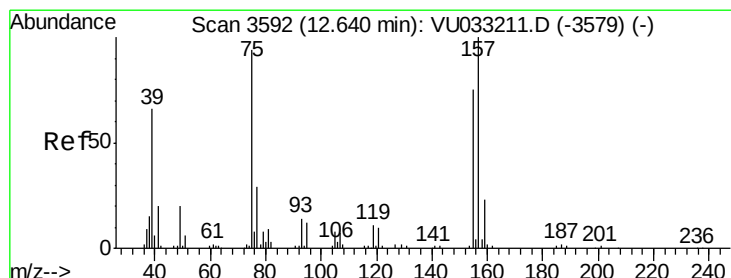
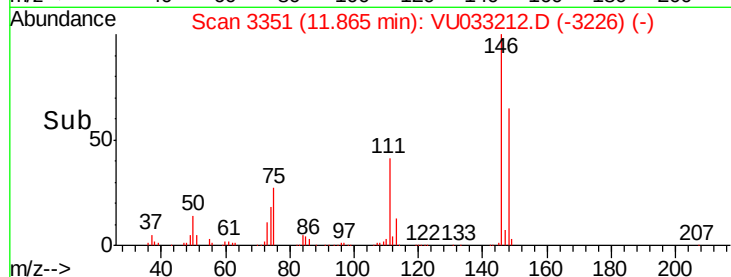
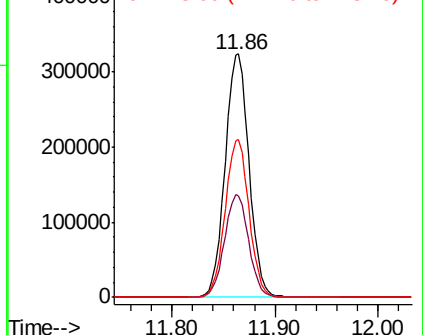
148 64.8 51.5 77.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 102.448 ug/L

RT: 12.64 min Scan# 3592

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

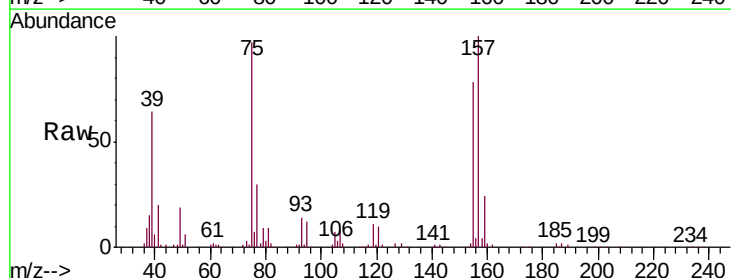
Tgt Ion: 75 Resp: 100331

Ion Ratio Lower Upper

75 100

155 80.5 63.5 95.3

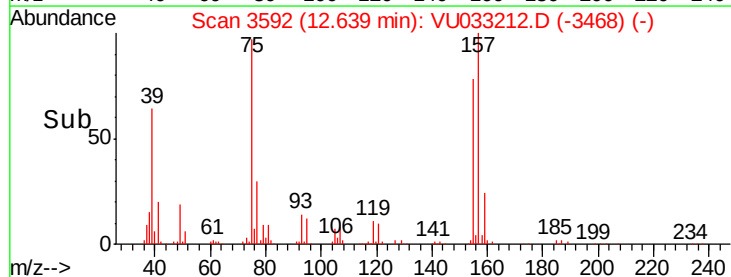
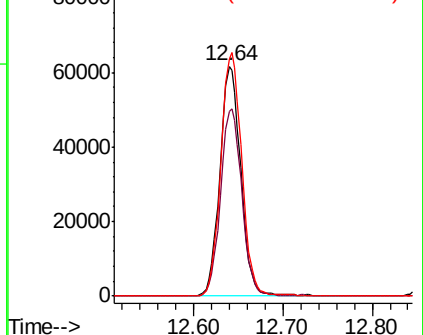
157 103.4 84.6 127.0

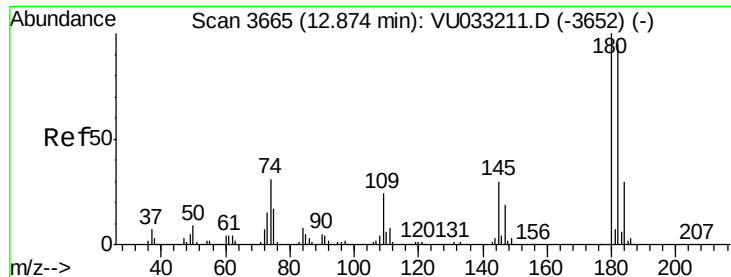


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

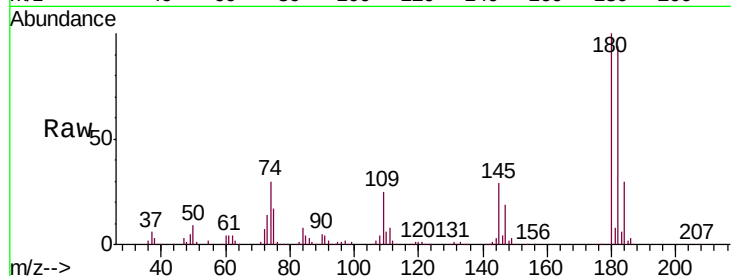




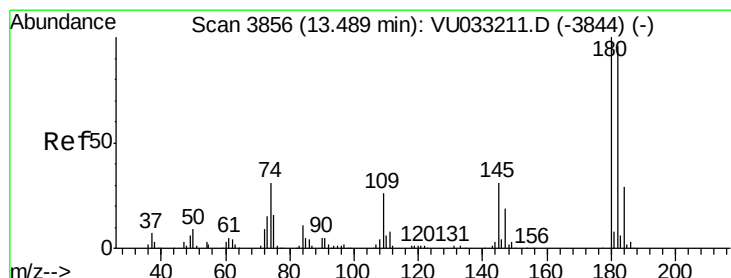
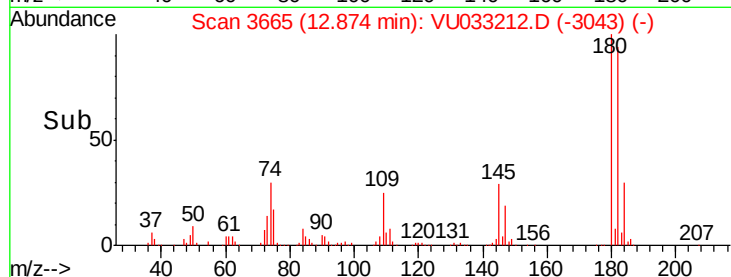
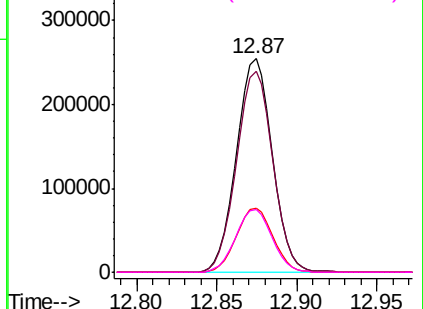
#67
 1,3,5-Trichlorobenzene
 Concen: 96.577 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033212.D
 Acq: 12 Jul 2019 10:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10035

Tgt Ion:	180	Resp:	387807
Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.5	113.3
184	30.6	24.2	36.2
145	30.0	24.1	36.1

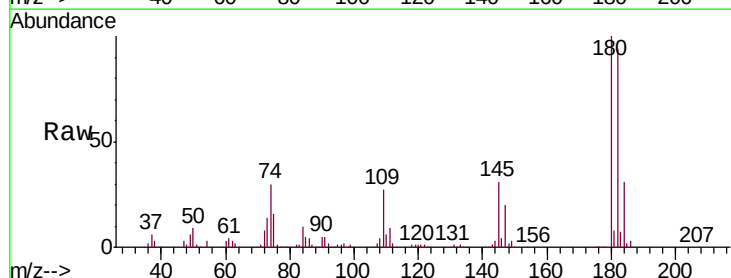


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

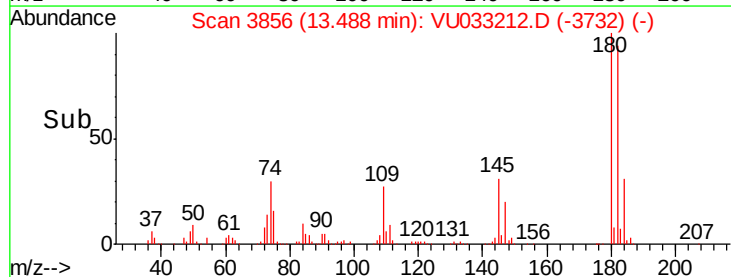
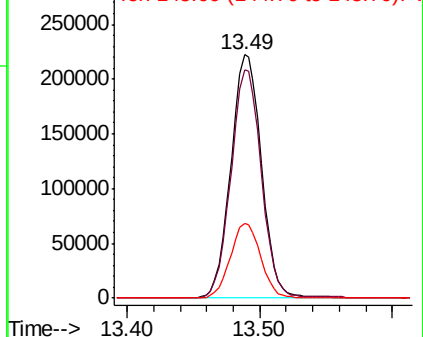


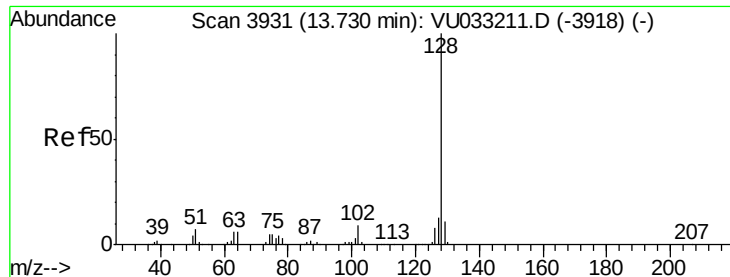
#68
 1,2,4-trichlorobenzene
 Concen: 103.933 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033212.D
 Acq: 12 Jul 2019 10:27

Tgt Ion:	180	Resp:	356338
Ion	Ratio	Lower	Upper
180	100		
182	93.7	76.5	114.7
145	30.4	24.6	36.8



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





#69

Naphthalene

Concen: 114.167 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD10035

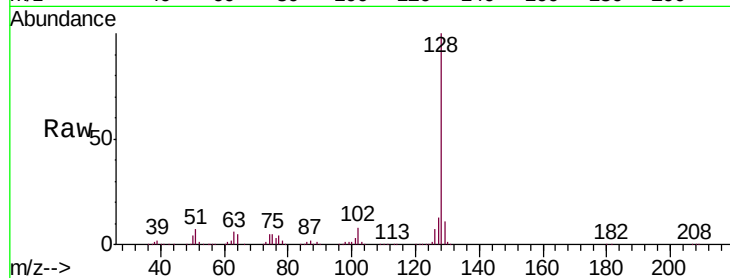
Tgt Ion:128 Resp: 1218275

Ion Ratio Lower Upper

128 100

127 13.2 10.8 16.2

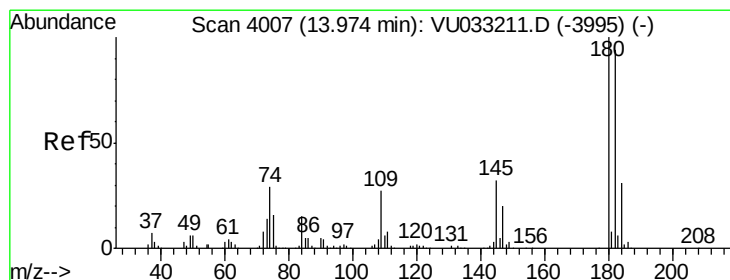
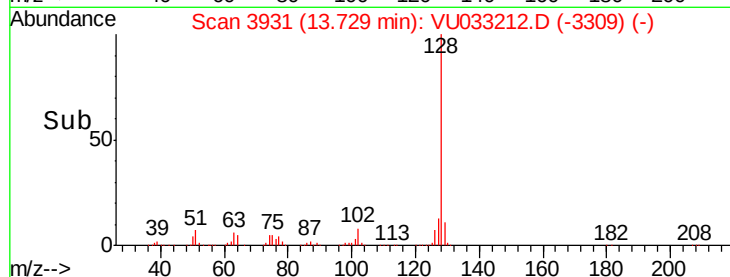
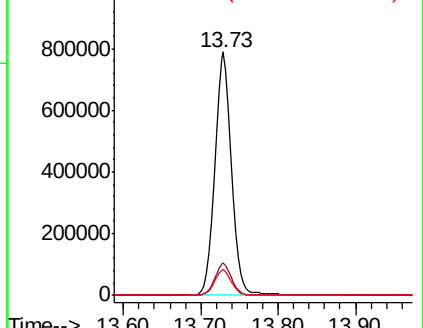
129 10.6 8.7 13.1



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: 100.577 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033212.D

Acq: 12 Jul 2019 10:27

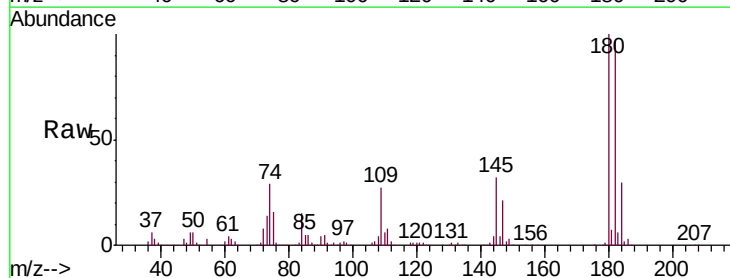
Tgt Ion:180 Resp: 366034

Ion Ratio Lower Upper

180 100

182 96.1 77.4 116.2

145 32.2 26.2 39.2



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

