

Data File : VU033210.D
Acq On : 12 Jul 2019 09:41
Operator : JC/SP
Sample : VSTD01033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01033

Quant Time: Jul 12 23:31:37 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	300959	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	298317	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	139399	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	23336	11.22	ug/L	0.00
7) Chloroethane-d5	1.67	69	20381	12.10	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	39633	9.48	ug/L	0.00
21) 2-Butanone-d5	4.16	46	24446	14.89	ug/L	0.00
24) Chloroform-d	4.62	84	38465	9.82	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	25441	9.79	ug/L	0.00
32) Benzene-d6	5.32	84	74584	9.85	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	24115	10.04	ug/L	0.00
41) Toluene-d8	7.55	98	68396	9.62	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	10856	8.71	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	18806	16.74	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	36505	9.78	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	25332	9.65	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	29053	9.707 ug/L	99
3) Chloromethane	1.32	50	27862	10.076 ug/L	98
5) Vinyl chloride	1.40	62	33172	11.755 ug/L	99
6) Bromomethane	1.62	94	18083	10.967 ug/L	96
8) Chloroethane	1.69	64	20423	12.319 ug/L	97
9) Trichlorofluoromethane	1.87	101	45385	11.609 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	20051	9.937 ug/L	99
12) 1,1-Dichloroethene	2.27	96	19453	10.145 ug/L	91
13) Acetone	2.31	43	39403	17.732 ug/L	97
14) Carbon disulfide	2.46	76	59740	9.990 ug/L	99
15) Methyl Acetate	2.60	43	23105	8.898 ug/L	100
16) Methylene chloride	2.68	84	22779	10.284 ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	20045	9.814 ug/L	98
18) Methyl tert-butyl Ether	2.98	73	58557	9.004 ug/L	97
19) 1,1-Dichloroethane	3.42	63	39523	10.182 ug/L	95
20) cis-1,2-Dichloroethene	4.20	96	22585	10.090 ug/L	98
22) 2-Butanone	4.24	43	38199	16.363 ug/L	94
23) Bromochloromethane	4.52	128	11845	10.228 ug/L	94
25) Chloroform	4.65	83	42507	10.558 ug/L	98
27) 1,2-Dichloroethane	5.38	62	32765	10.005 ug/L	99
29) Cyclohexane	4.97	56	29502	8.668 ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	34419	9.721 ug/L	99
31) Carbon tetrachloride	5.11	117	30029	9.372 ug/L	99
33) Benzene	5.37	78	84908	9.986 ug/L	100
34) Trichloroethene	6.16	95	22263	9.867 ug/L	95
35) Methylcyclohexane	6.40	83	31981	9.170 ug/L	100
37) 1,2-Dichloropropane	6.41	63	23196	9.987 ug/L	99
38) Bromodichloromethane	6.74	83	29603	9.533 ug/L	96
39) cis-1,3-Dichloropropene	7.25	75	34178	9.534 ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	58838	16.303 ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	89221	9.697	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	29868	8.846	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	21704	10.019	ug/L	97
46) Tetrachloroethene	8.21	164	17251	9.419	ug/L	96
48) 2-Hexanone	8.35	43	46037	14.658	ug/L	100
49) Dibromochloromethane	8.46	129	23512	9.137	ug/L	100
50) 1,2-Dibromoethane	8.57	107	23206	9.659	ug/L	97
51) Chlorobenzene	9.10	112	58965	9.755	ug/L	99
52) Ethylbenzene	9.23	91	92087	9.070	ug/L	98
53) m,p-Xylene	9.36	106	33466	8.721	ug/L	98
54) o-xylene	9.76	106	34005	9.055	ug/L	99
55) Styrene	9.77	104	55555	8.554	ug/L	95
56) Isopropylbenzene	10.15	105	85262	8.485	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	37855	9.640	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	29356	9.484	ug/L	98
61) Bromoform	9.94	173	16561	9.371	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	40275	9.441	ug/L	97
63) 1,4-Dichlorobenzene	11.49	146	43027	9.741	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	41533	9.513	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	8634	10.452	ug/L	84
67) 1,3,5-Trichlorobenzene	12.87	180	28467	8.405	ug/L	98
68) 1,2,4-trichlorobenzene	13.49	180	23782	8.224	ug/L	99
69) Naphthalene	13.73	128	68896	7.654	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	26536	8.644	ug/L	96

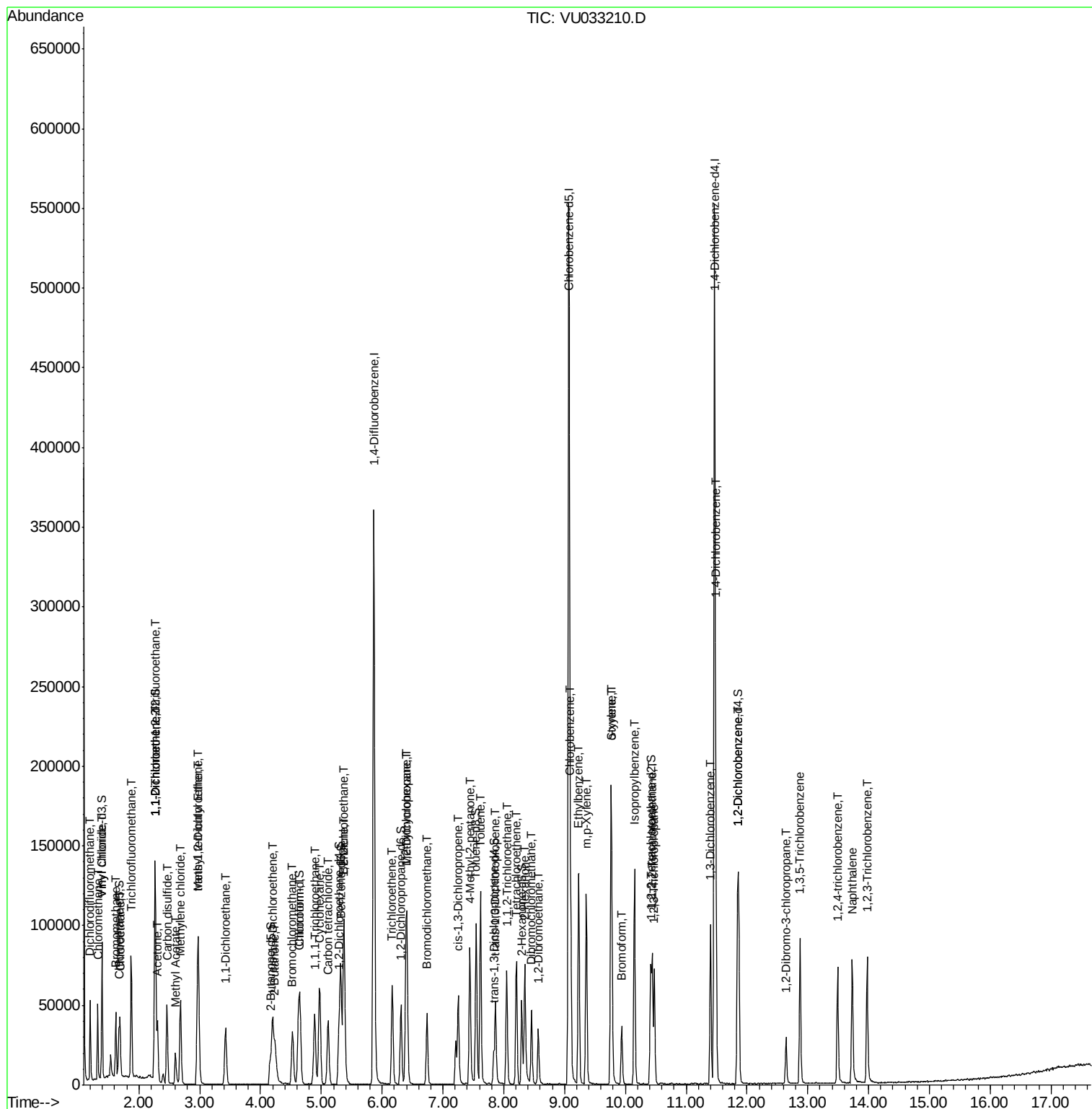
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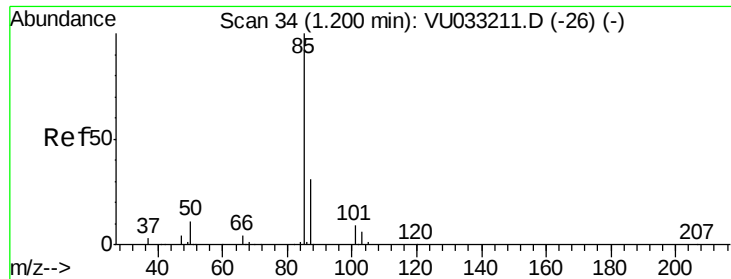
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#2

Dichlorodifluoromethane

Concen: 9.707 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

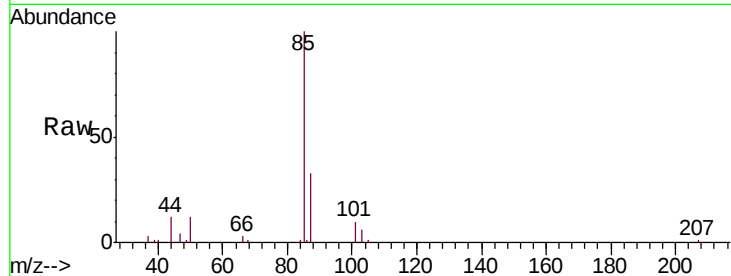
VSTD01033

Tgt Ion: 85 Resp: 29053

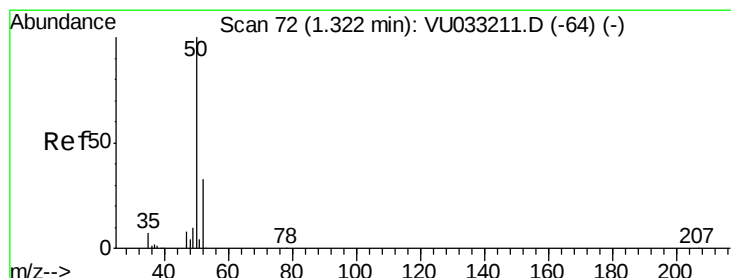
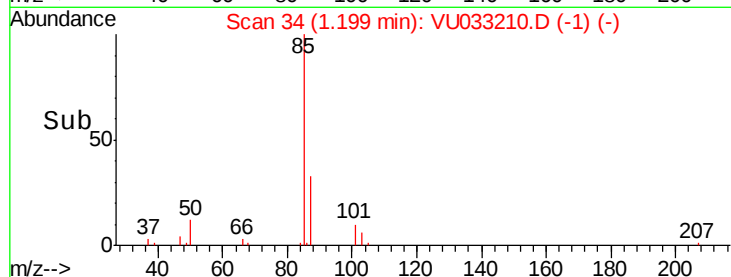
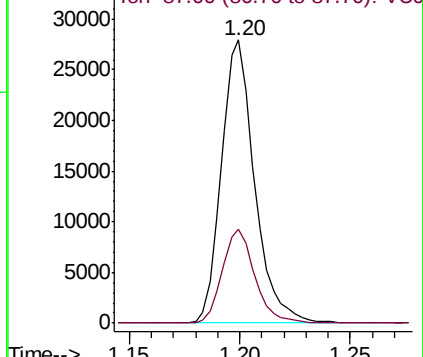
Ion Ratio Lower Upper

85 100

87 32.2 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033210.D (-1) (-)



#3

Chloromethane

Concen: 10.076 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033210.D

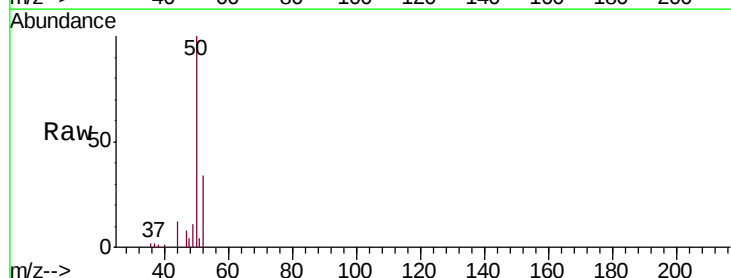
Acq: 12 Jul 2019 09:41

Tgt Ion: 50 Resp: 27862

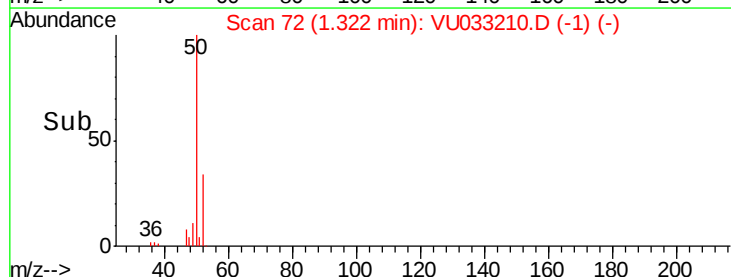
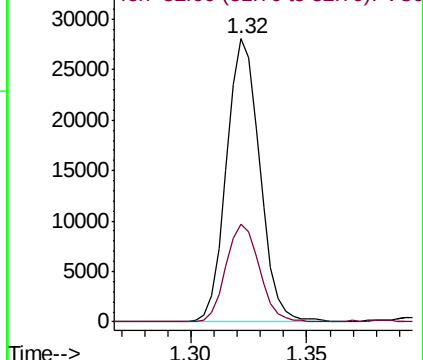
Ion Ratio Lower Upper

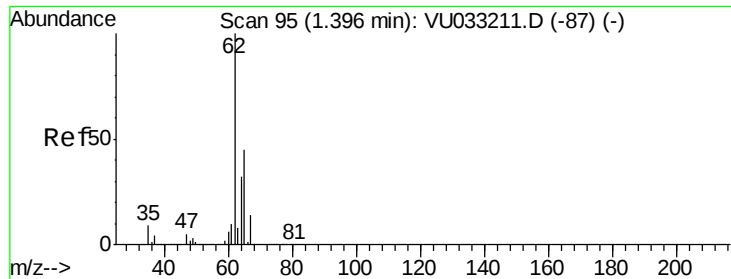
50 100

52 34.3 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU033210.D (-1) (-)





#5

Vinyl chloride

Concen: 11.755 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

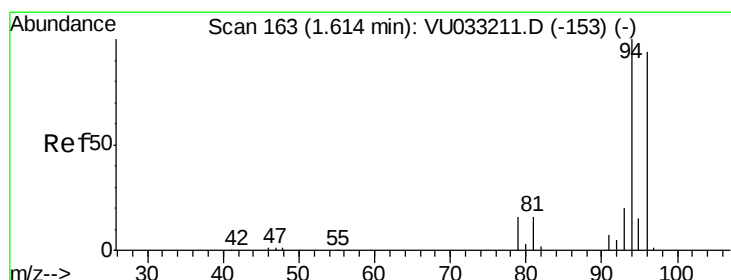
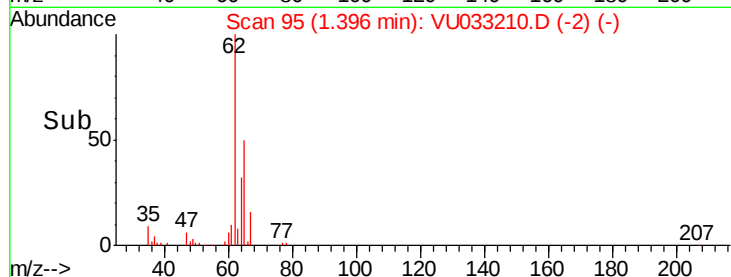
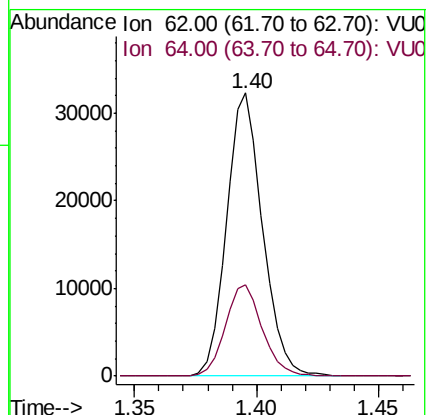
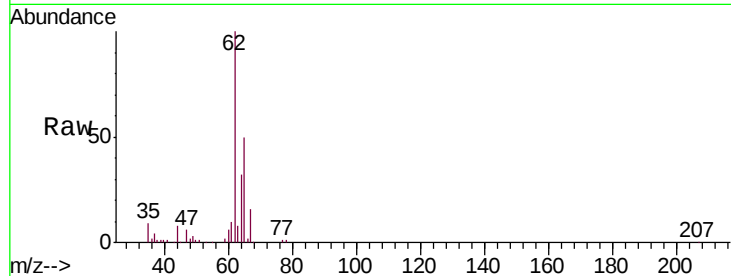
VSTD01033

Tgt Ion: 62 Resp: 33172

Ion Ratio Lower Upper

62 100

64 32.2 22.7 42.3



#6

Bromomethane

Concen: 10.967 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.01 min

Lab File: VU033210.D

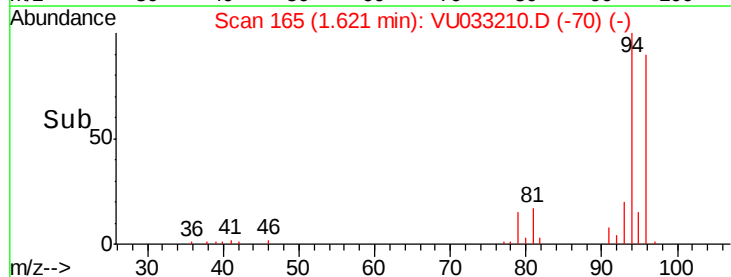
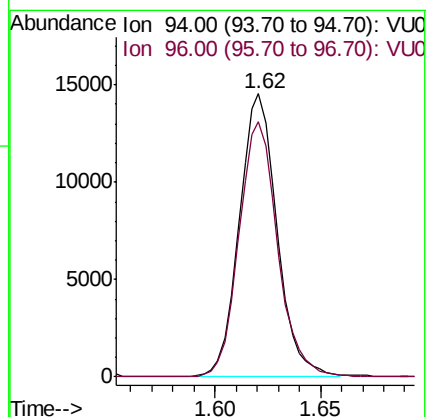
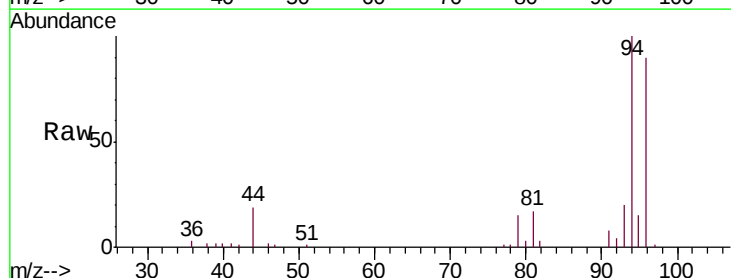
Acq: 12 Jul 2019 09:41

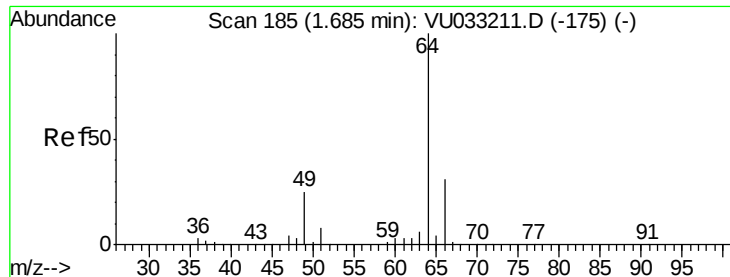
Tgt Ion: 94 Resp: 18083

Ion Ratio Lower Upper

94 100

96 90.3 66.1 122.7

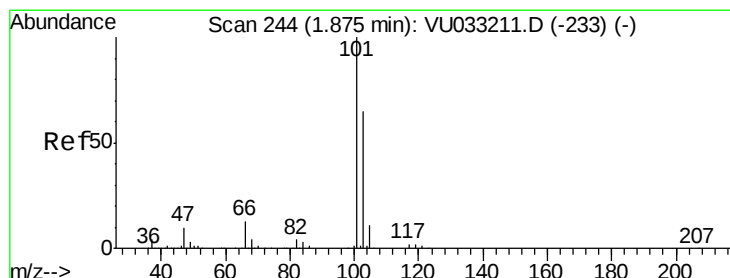
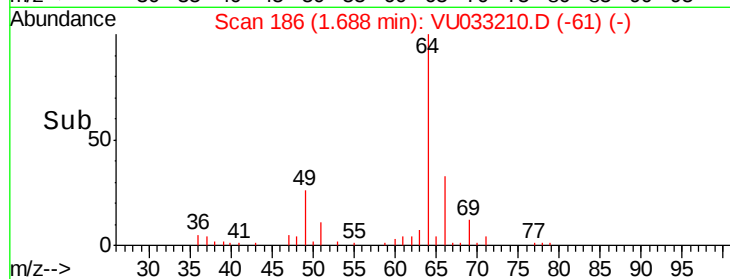
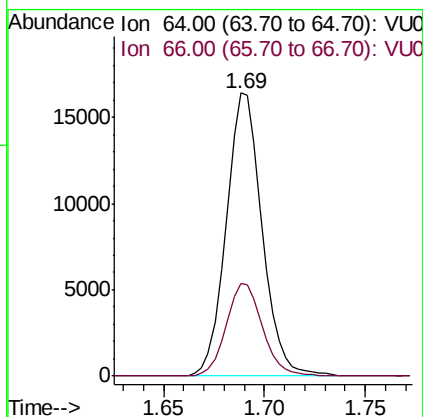
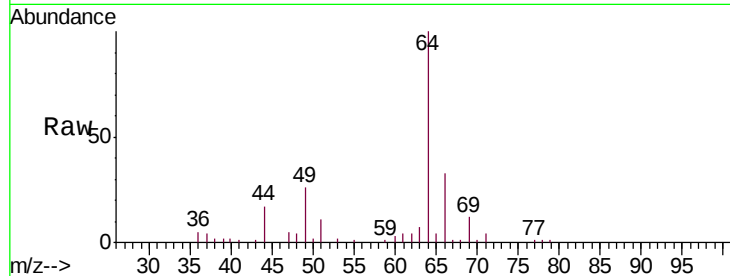




#8
Chloroethane
Concen: 12.319 ug/L
RT: 1.69 min Scan# 186
Delta R.T. 0.00 min
Lab File: VU033210.D
Acq: 12 Jul 2019 09:41

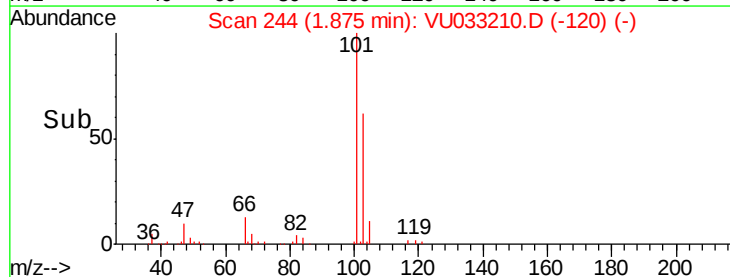
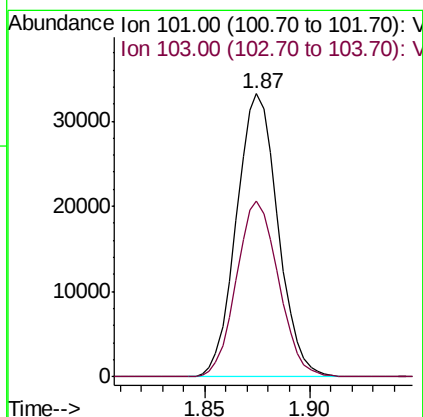
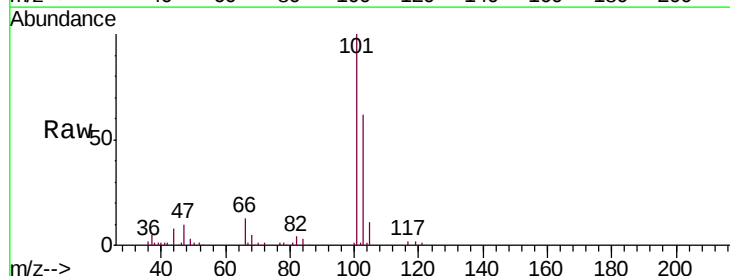
Instrument :
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ClientSampleId :
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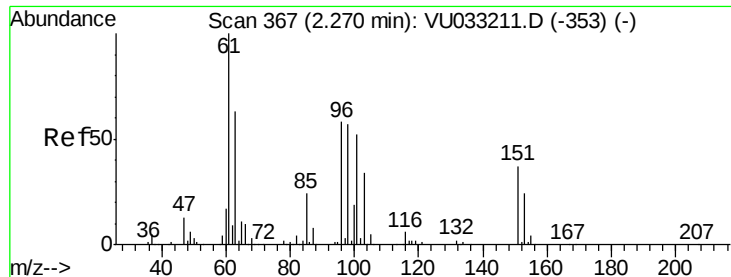
Tgt Ion: 64 Resp: 20423
Ion Ratio Lower Upper
64 100
66 32.6 21.6 40.0



#9
Trichlorofluoromethane
Concen: 11.609 ug/L
RT: 1.87 min Scan# 244
Delta R.T. -0.00 min
Lab File: VU033210.D
Acq: 12 Jul 2019 09:41

Tgt Ion: 101 Resp: 45385
Ion Ratio Lower Upper
101 100
103 63.0 52.2 78.4





#10

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

Concen: 9.937 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD01033

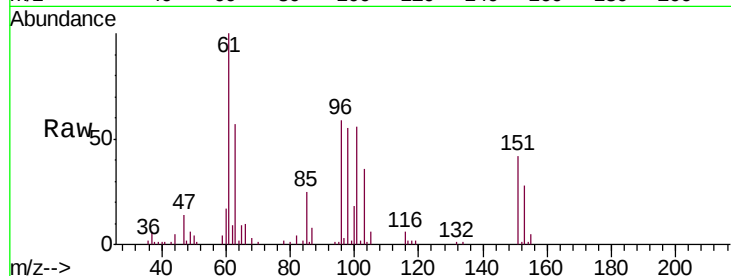
Tgt Ion: 101 Resp: 20051

Ion Ratio Lower Upper

101 100

85 44.6 35.8 53.8

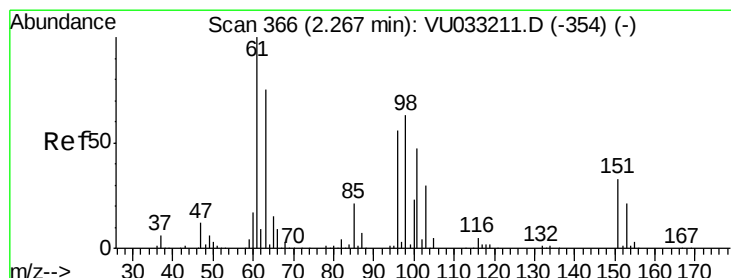
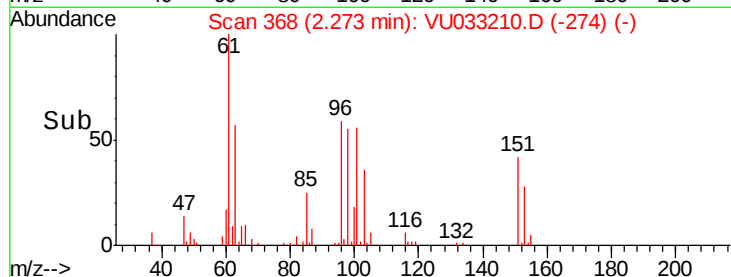
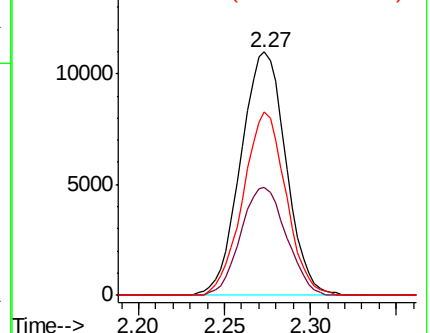
151 71.5 56.7 85.1



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: 10.145 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

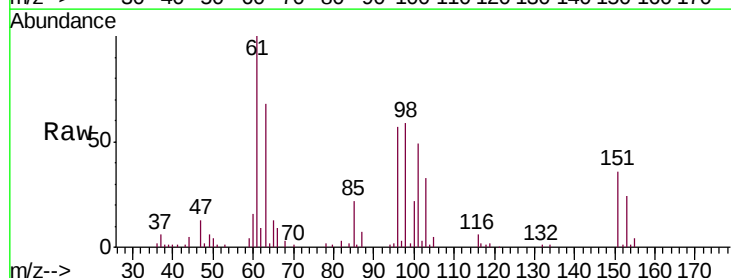
Tgt Ion: 96 Resp: 19453

Ion Ratio Lower Upper

96 100

61 175.4 126.1 234.1

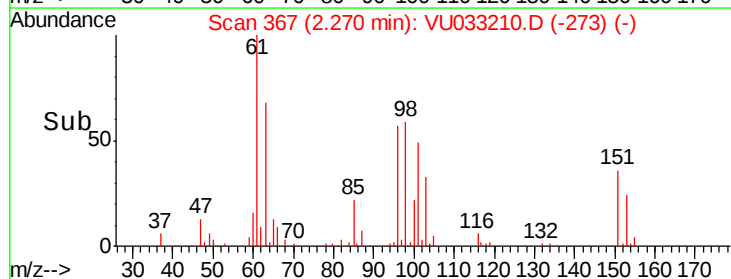
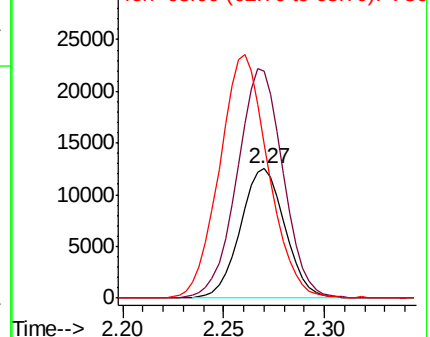
63 119.2 96.8 179.8

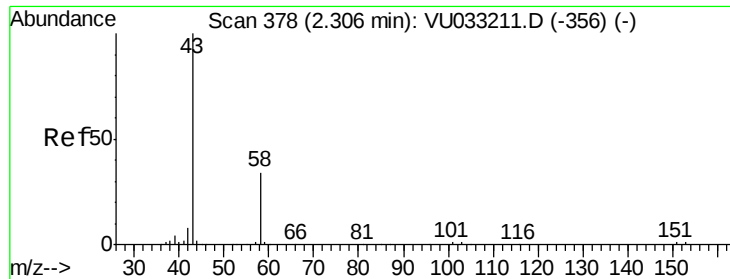


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 17.732 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

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Acq: 12 Jul 2019 09:41

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ClientSampleId :

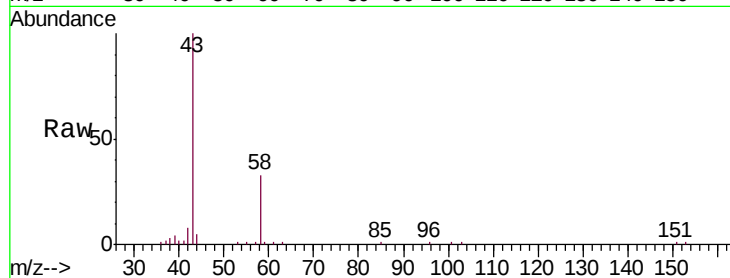
VSTD01033

Tgt Ion: 43 Resp: 39403

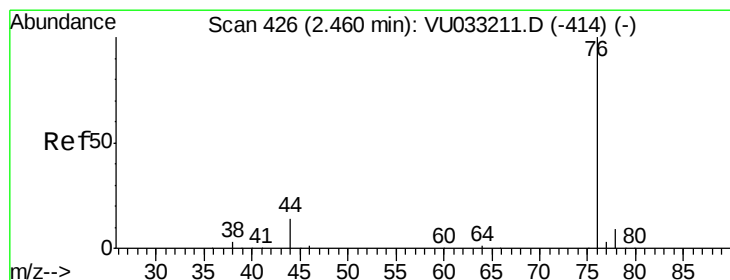
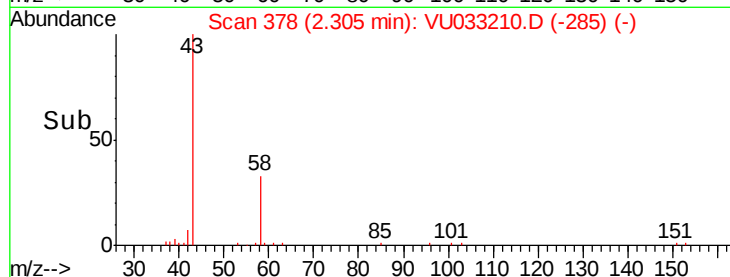
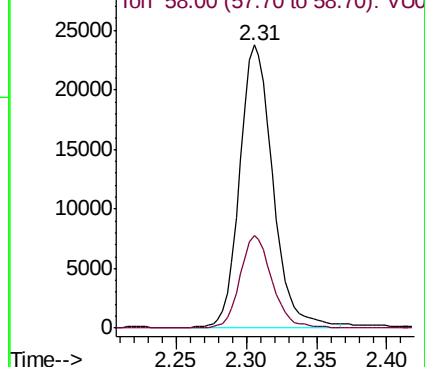
Ion Ratio Lower Upper

43 100

58 31.3 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033211.D (-356) (-)



#14

Carbon disulfide

Concen: 9.990 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033210.D

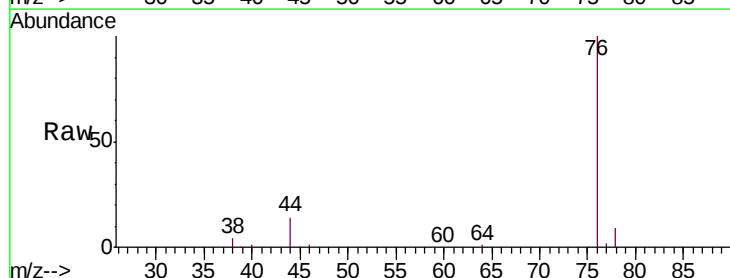
Acq: 12 Jul 2019 09:41

Tgt Ion: 76 Resp: 59740

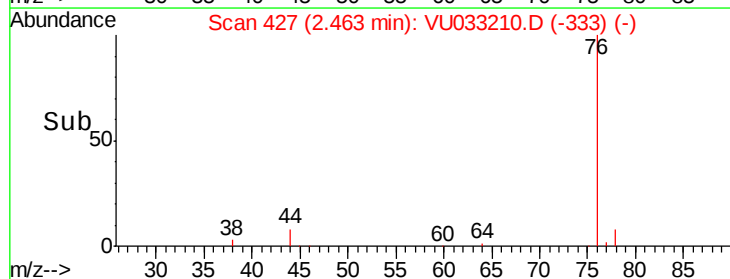
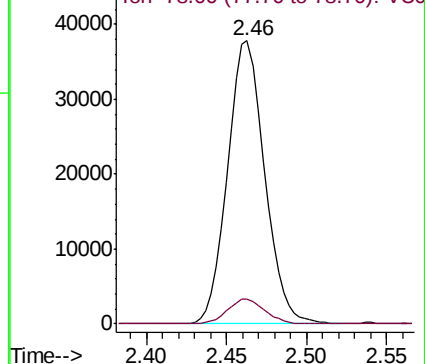
Ion Ratio Lower Upper

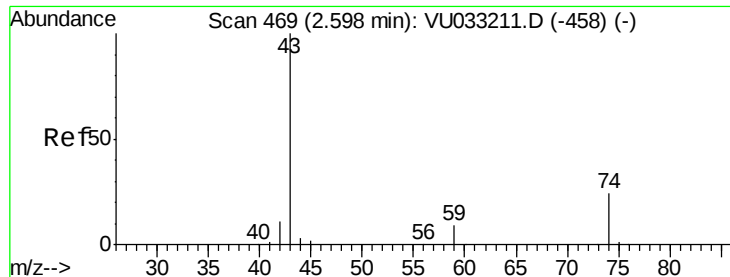
76 100

78 8.8 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033211.D (-414) (-)





#15

Methyl Acetate

Concen: 8.898 ug/L

RT: 2.60 min Scan# 470

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

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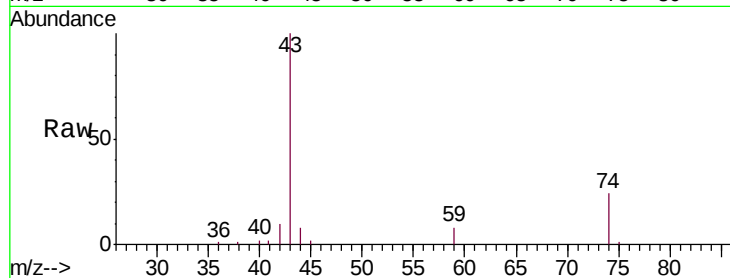
VSTD01033

Tgt Ion: 43 Resp: 23105

Ion Ratio Lower Upper

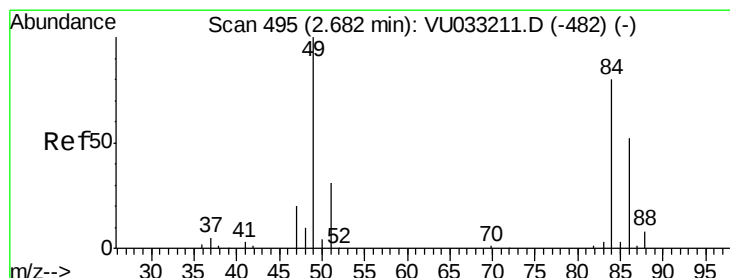
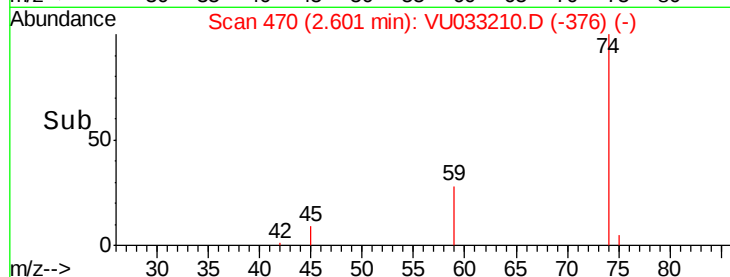
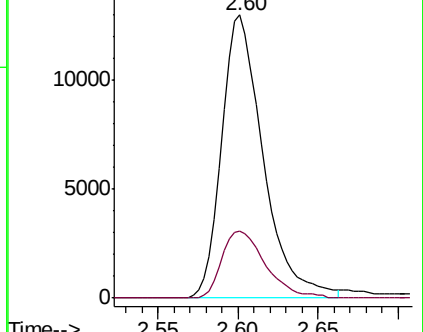
43 100

74 24.8 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VU033210.D (-376) (-)

Ion 74.00 (73.70 to 74.70): VU033210.D (-376) (-)



#16

Methylene chloride

Concen: 10.284 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

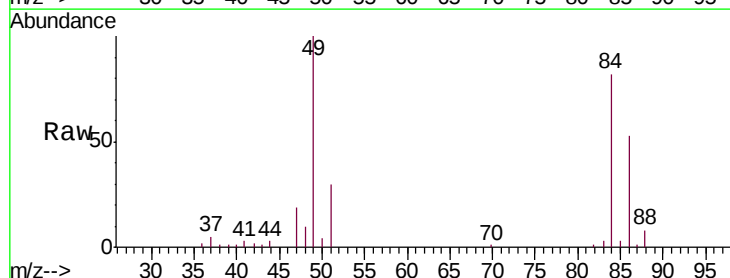
Tgt Ion: 84 Resp: 22779

Ion Ratio Lower Upper

84 100

86 64.7 45.7 84.9

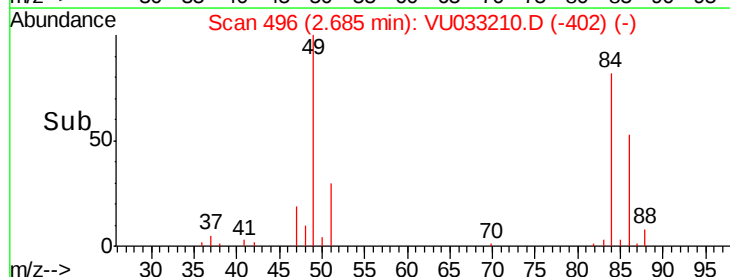
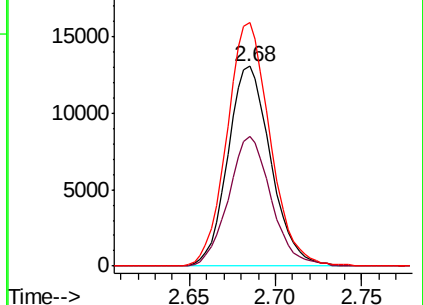
49 121.9 87.7 162.9

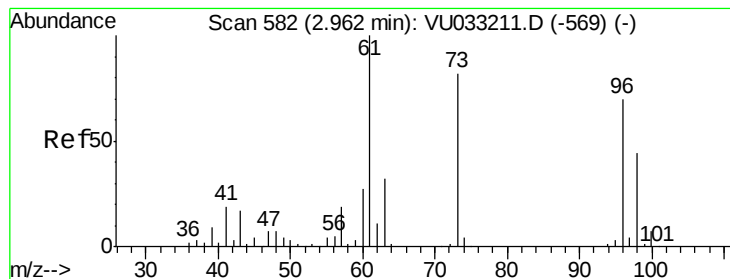


Abundance Ion 84.00 (83.70 to 84.70): VU033210.D (-402) (-)

Ion 86.00 (85.70 to 86.70): VU033210.D (-402) (-)

Ion 49.00 (48.70 to 49.70): VU033210.D (-402) (-)





#17

trans-1,2-Dichloroethene

Concen: 9.814 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD01033

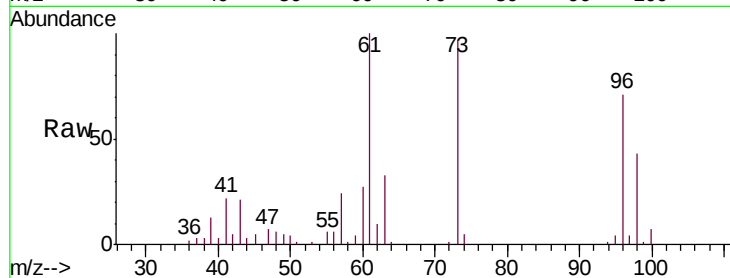
Tgt Ion: 96 Resp: 20045

Ion Ratio Lower Upper

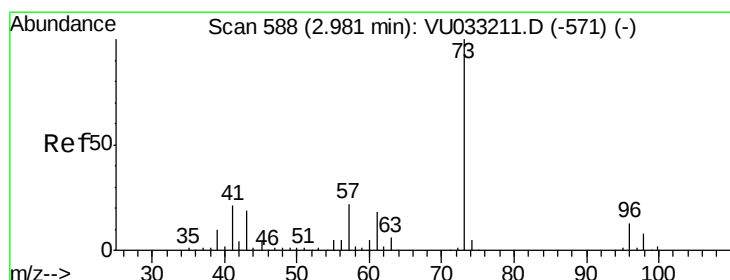
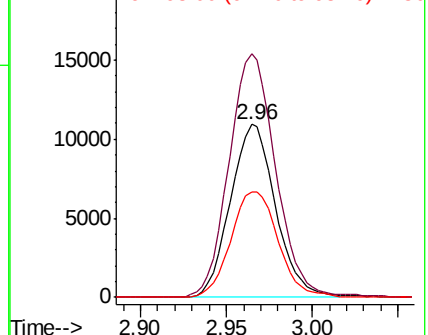
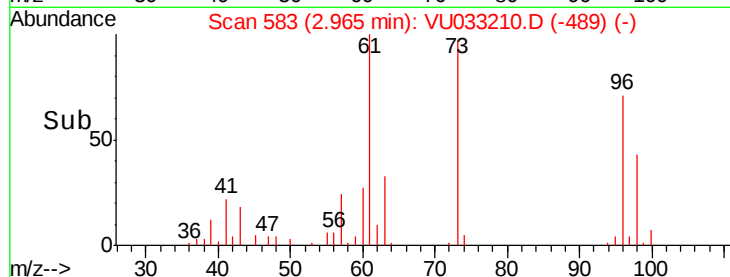
96 100

61 140.9 100.2 186.2

98 61.1 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU033210.D (-489) (-)



#18

Methyl tert-butyl Ether

Concen: 9.004 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

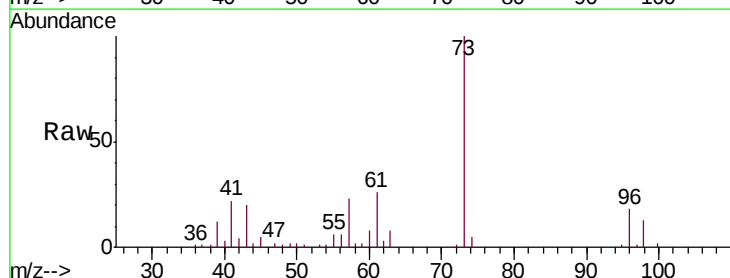
Tgt Ion: 73 Resp: 58557

Ion Ratio Lower Upper

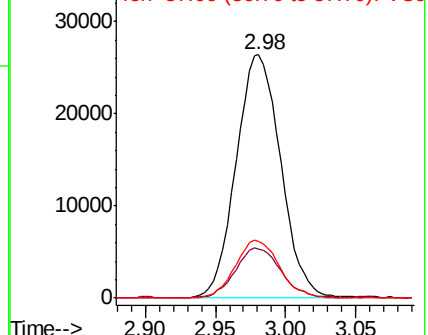
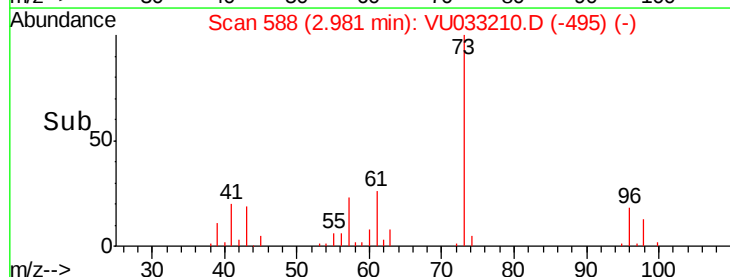
73 100

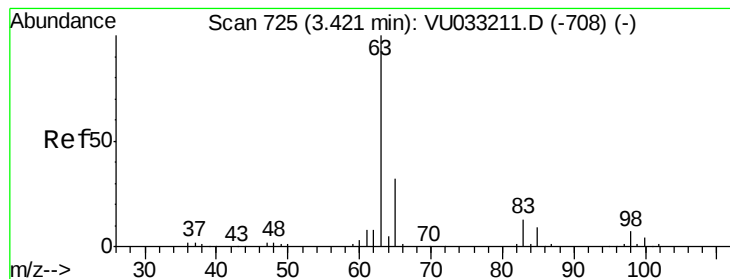
43 21.2 15.7 23.5

57 23.5 17.8 26.6



Abundance Ion 73.00 (72.70 to 73.70): VU033210.D (-495) (-)





#19

1,1-Dichloroethane

Concen: 10.182 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD01033

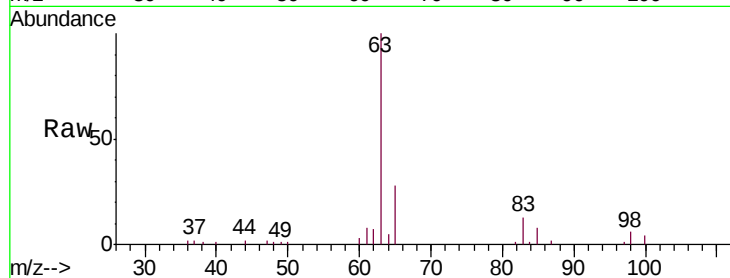
Tgt Ion: 63 Resp: 39523

Ion Ratio Lower Upper

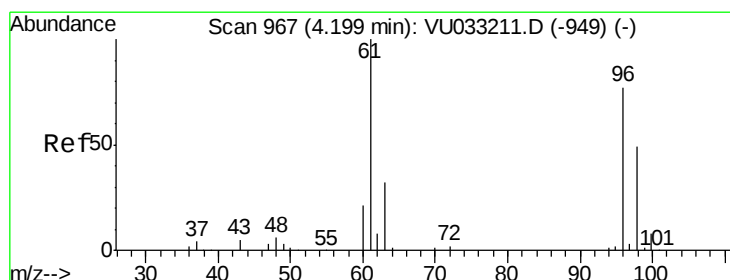
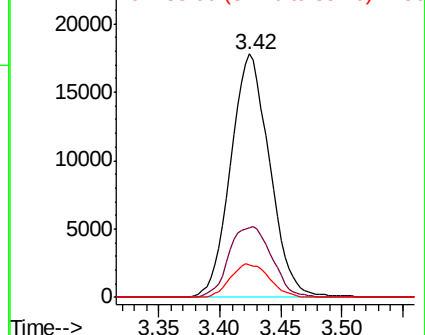
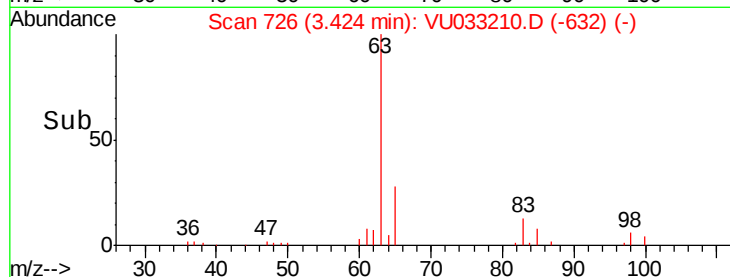
63 100

65 28.4 22.3 41.5

83 13.4 9.3 17.3



Abundance Ion 63.00 (62.70 to 63.70): VU033210.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 10.090 ug/L

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

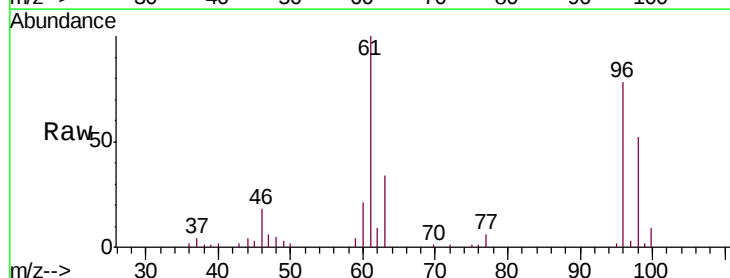
Tgt Ion: 96 Resp: 22585

Ion Ratio Lower Upper

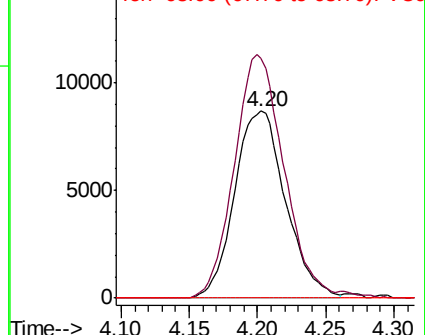
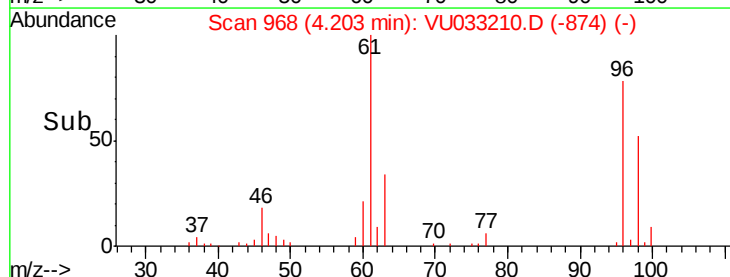
96 100

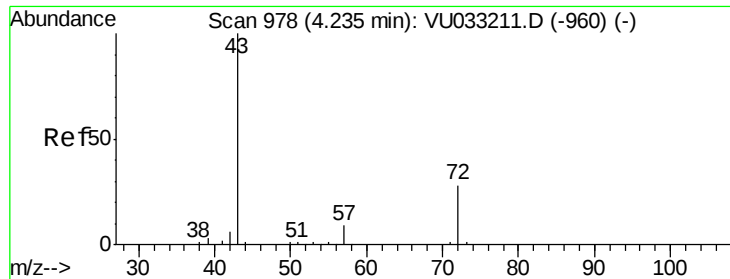
61 128.1 91.1 169.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU033210.D (-874) (-)





#22

2-Butanone

Concen: 16.363 ug/L

RT: 4.24 min Scan# 980

Delta R.T. 0.01 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

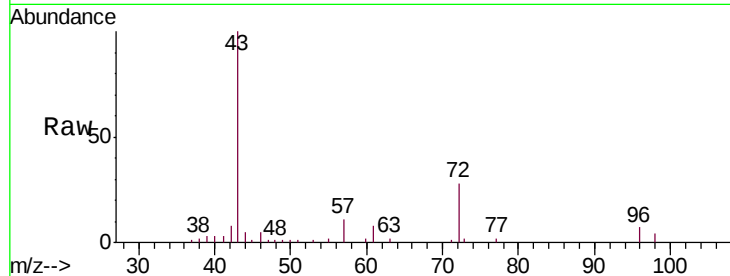
VSTD01033

Tgt Ion: 43 Resp: 38199

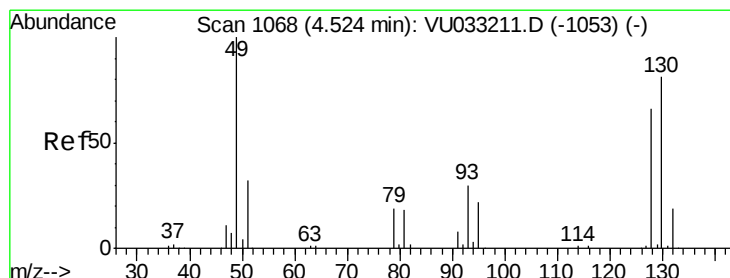
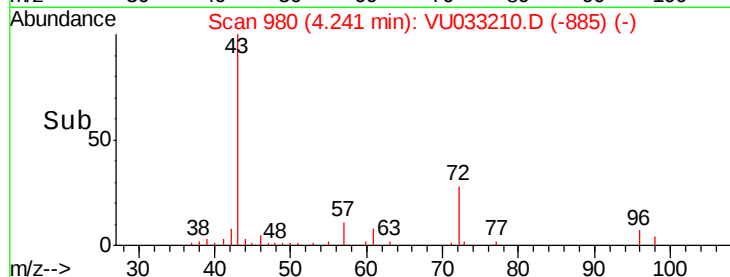
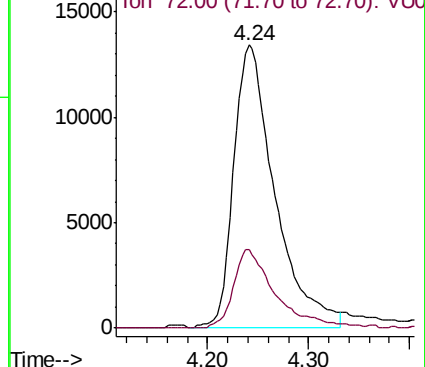
Ion Ratio Lower Upper

43 100

72 25.4 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033210.D (-980) (-)



#23

Bromochloromethane

Concen: 10.228 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Tgt Ion: 128 Resp: 11845

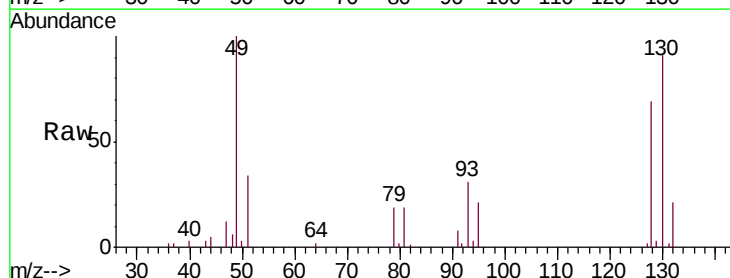
Ion Ratio Lower Upper

128 100

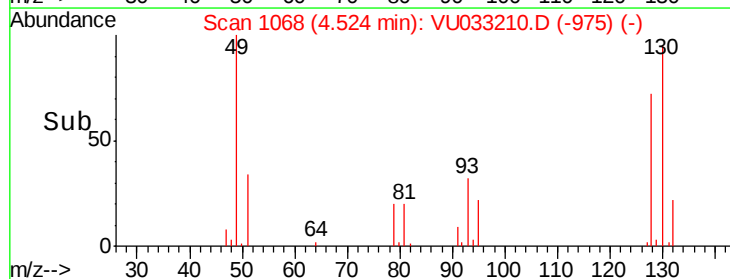
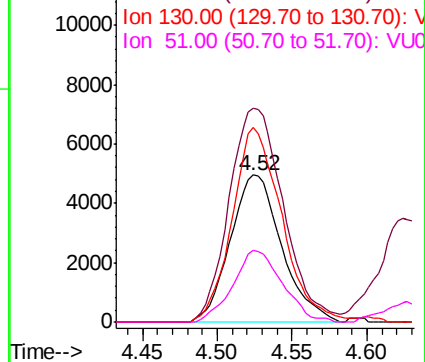
49 145.5 107.2 199.2

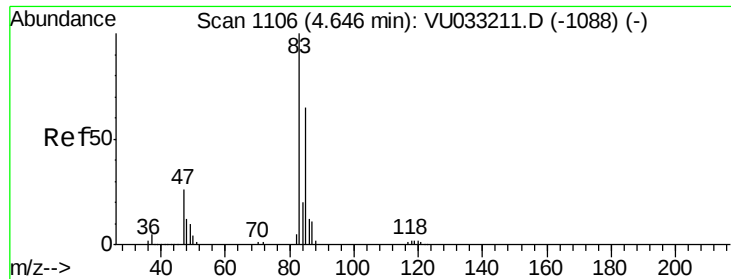
130 132.8 87.0 161.6

51 49.1 39.6 59.4



Abundance Ion 128.00 (127.70 to 128.70): VU033210.D (-1068) (-)





#25

Chloroform

Concen: 10.558 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

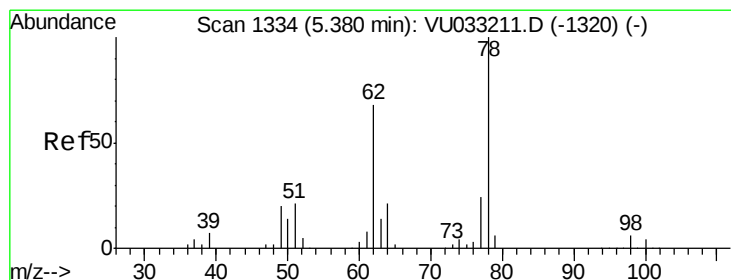
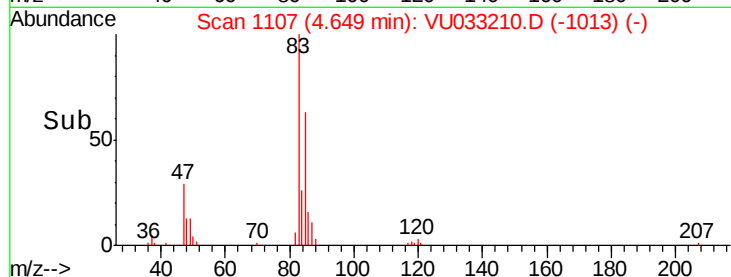
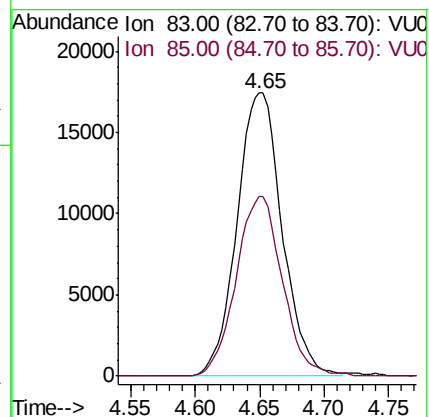
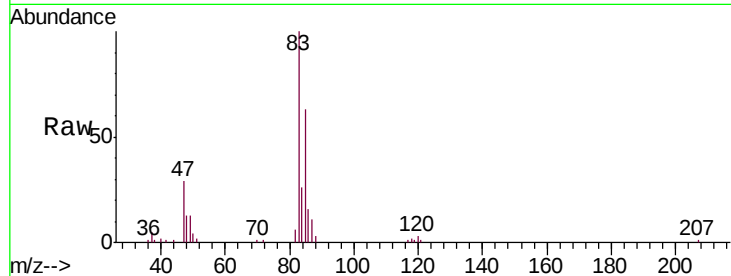
VSTD01033

Tgt Ion: 83 Resp: 42507

Ion Ratio Lower Upper

83 100

85 63.4 45.4 84.4



#27

1,2-Dichloroethane

Concen: 10.005 ug/L

RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU033210.D

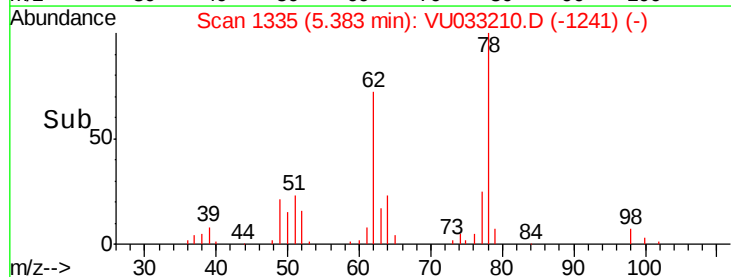
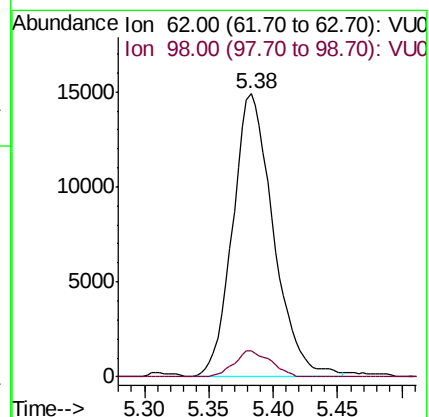
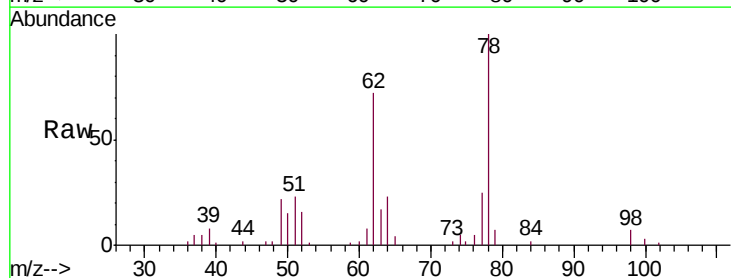
Acq: 12 Jul 2019 09:41

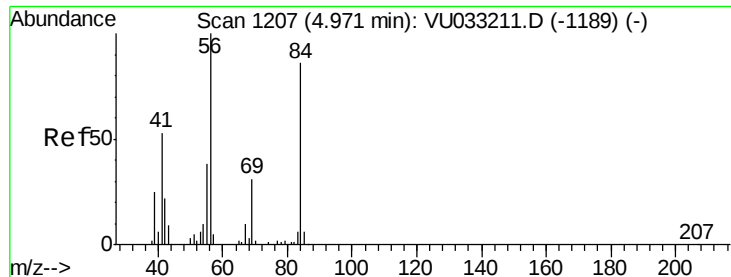
Tgt Ion: 62 Resp: 32765

Ion Ratio Lower Upper

62 100

98 9.2 7.0 10.6

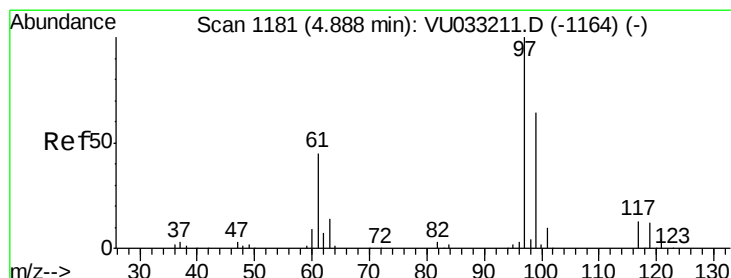
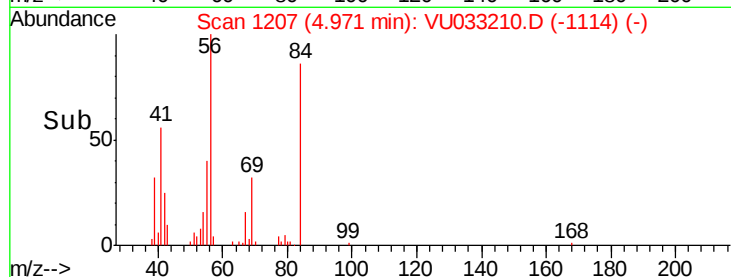
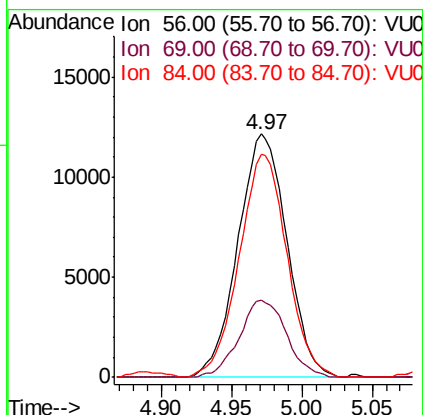
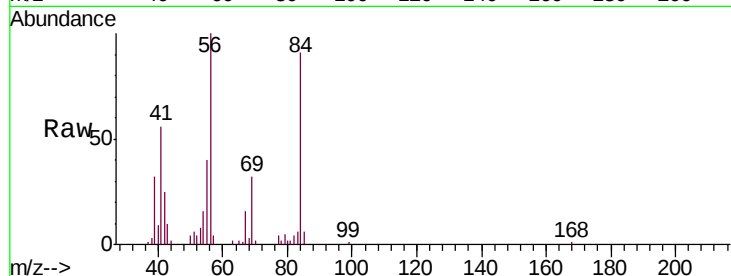




#29
Cyclohexane
Concen: 8.668 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033210.D
Acq: 12 Jul 2019 09:41

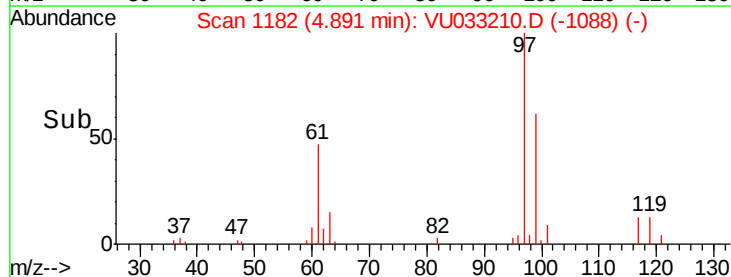
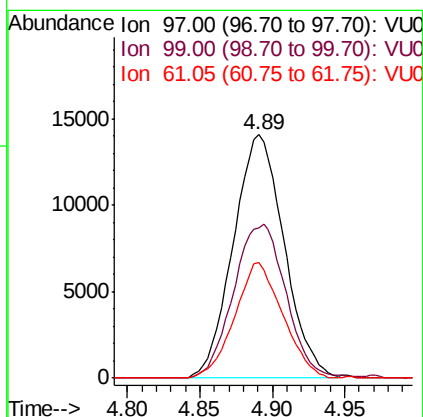
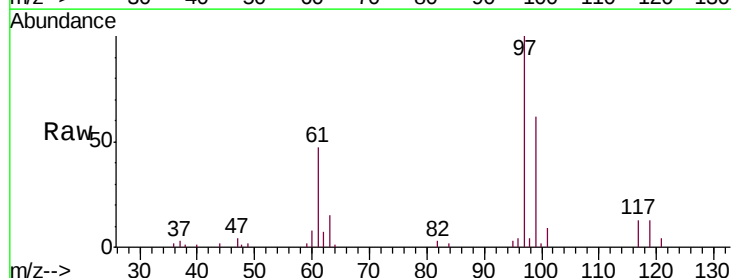
Instrument :
MSVOA_U
ClientSampleId :
VSTD01033

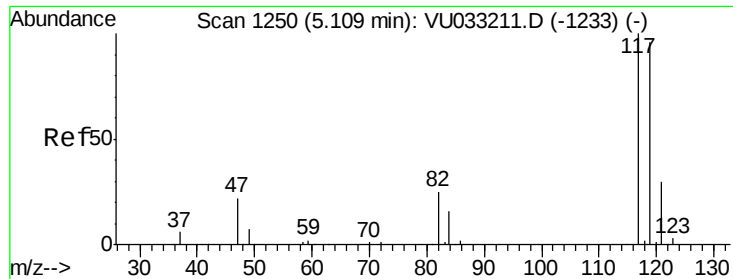
Tgt Ion: 56 Resp: 29502
Ion Ratio Lower Upper
56 100
69 30.7 24.7 37.1
84 89.3 70.2 105.2



#30
1,1,1-Trichloroethane
Concen: 9.721 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033210.D
Acq: 12 Jul 2019 09:41

Tgt Ion: 97 Resp: 34419
Ion Ratio Lower Upper
97 100
99 65.2 51.5 77.3
61 44.9 36.4 54.6





#31

Carbon tetrachloride

Concen: 9.372 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

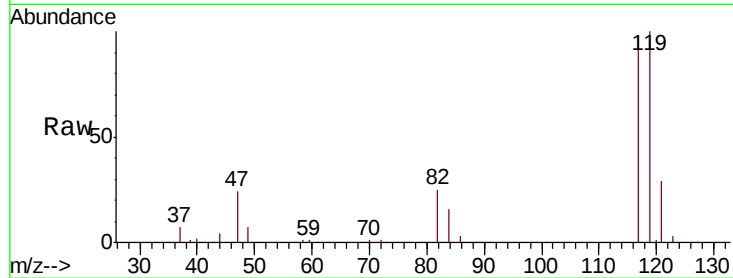
VSTD01033

Tgt Ion:117 Resp: 30029

Ion Ratio Lower Upper

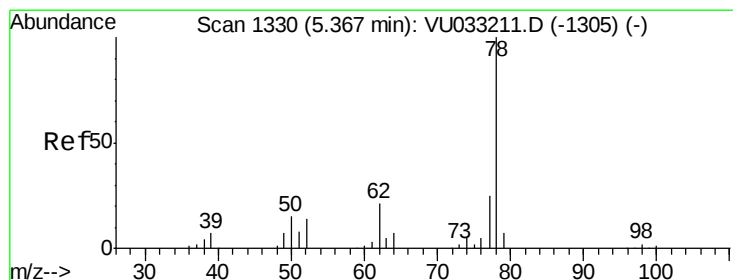
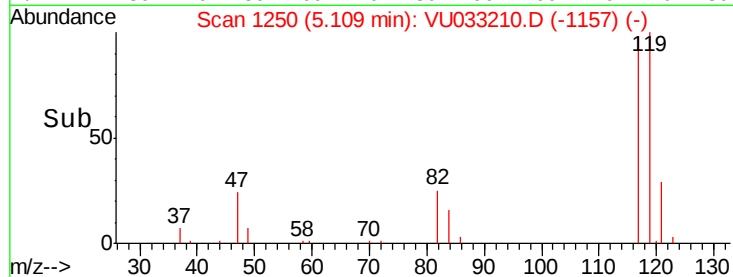
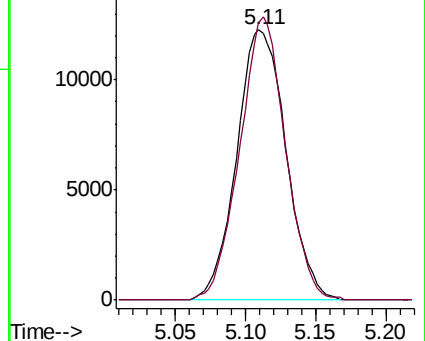
117 100

119 97.0 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: 9.986 ug/L

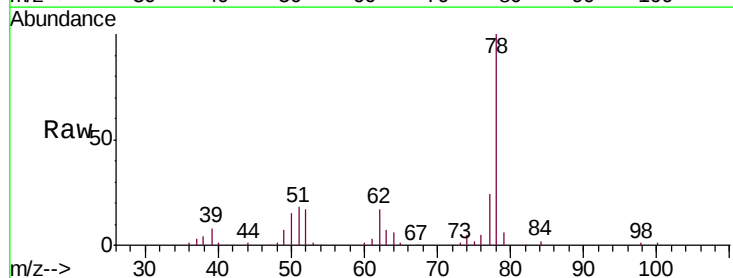
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

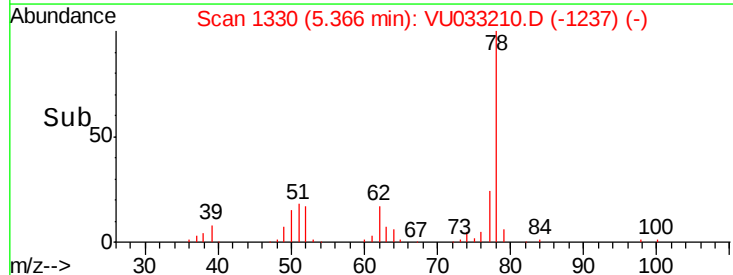
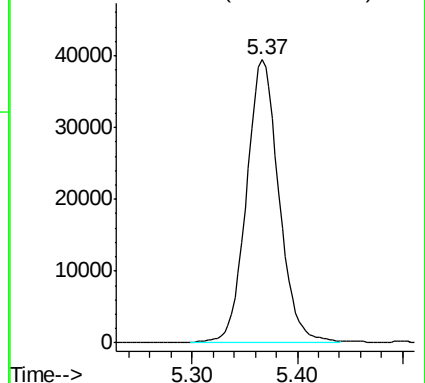
Lab File: VU033210.D

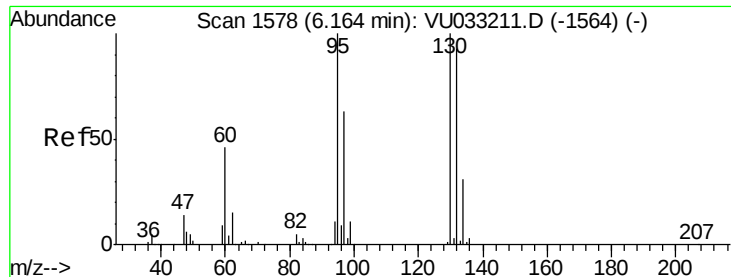
Acq: 12 Jul 2019 09:41

Tgt Ion: 78 Resp: 84908



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 9.867 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD01033

Tgt Ion: 95 Resp: 22263

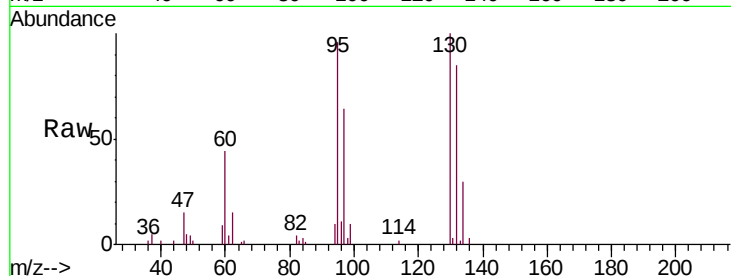
Ion Ratio Lower Upper

95 100

97 67.0 43.8 81.4

132 88.1 65.5 121.6

130 104.0 69.7 129.5

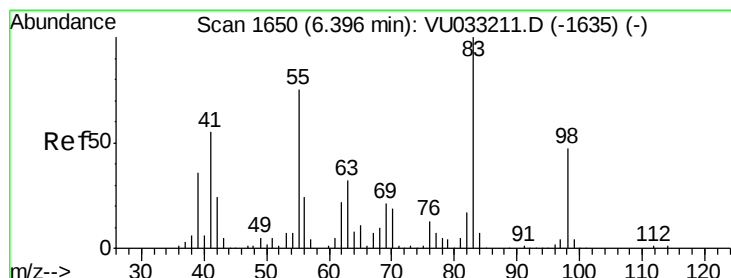
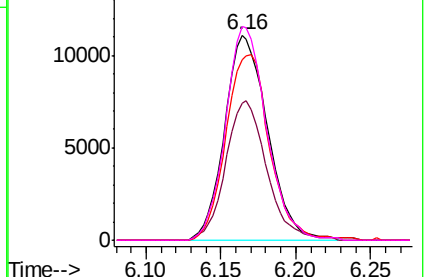
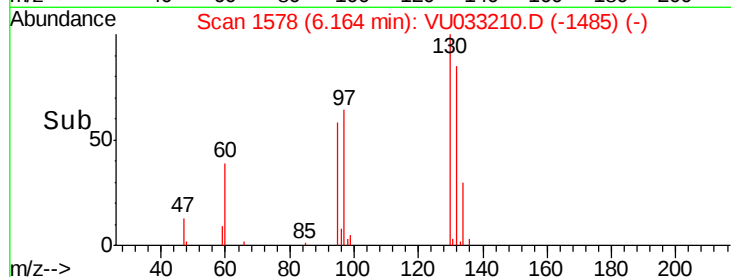


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 9.170 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

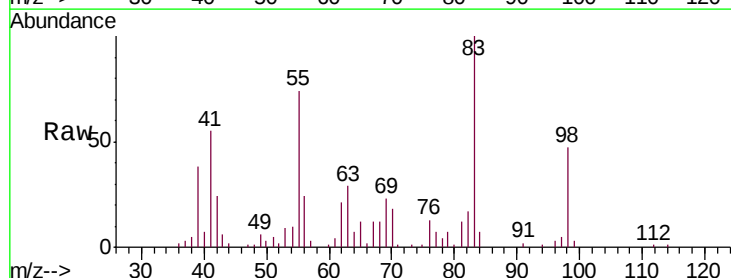
Tgt Ion: 83 Resp: 31981

Ion Ratio Lower Upper

83 100

55 76.0 60.5 90.7

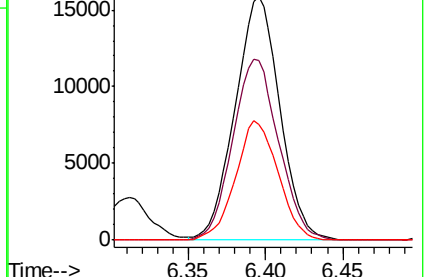
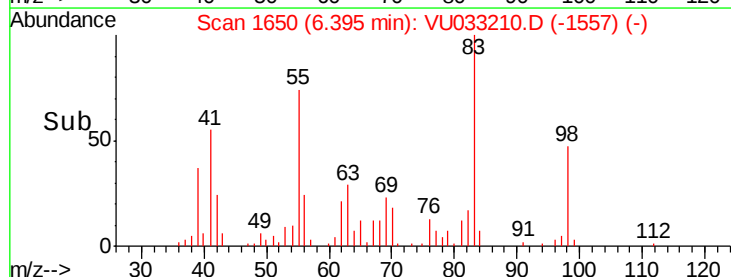
98 46.3 37.4 56.0

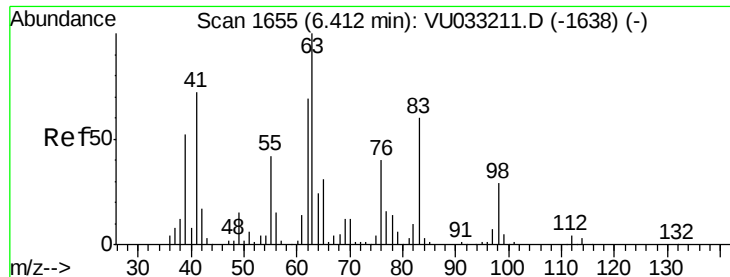


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

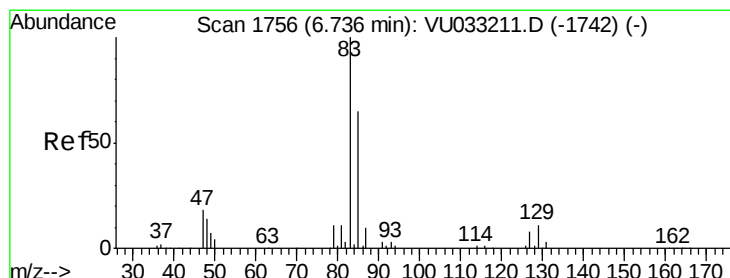
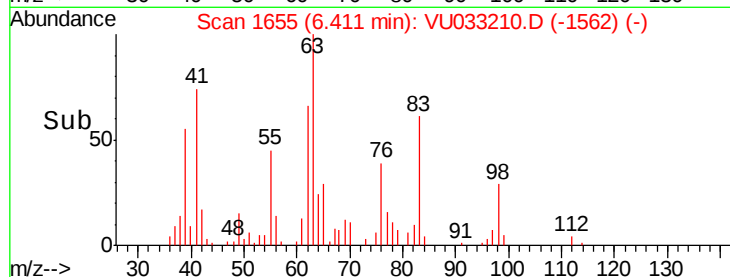
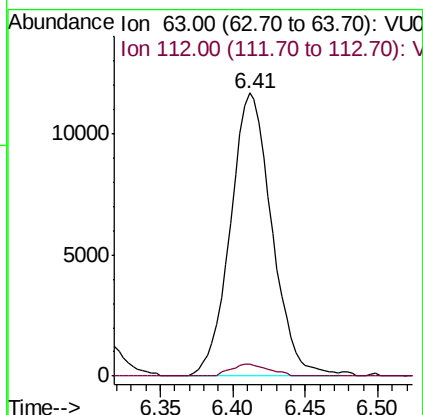
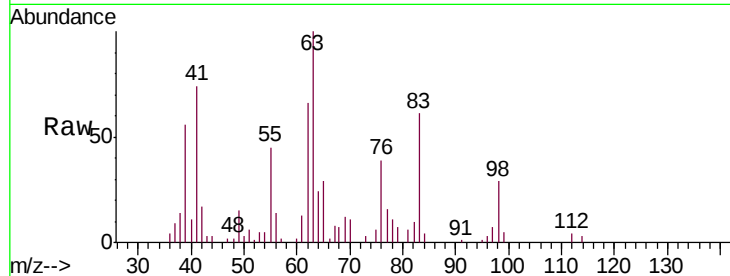




#37
 1,2-Dichloropropane
 Concen: 9.987 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033210.D
 Acq: 12 Jul 2019 09:41

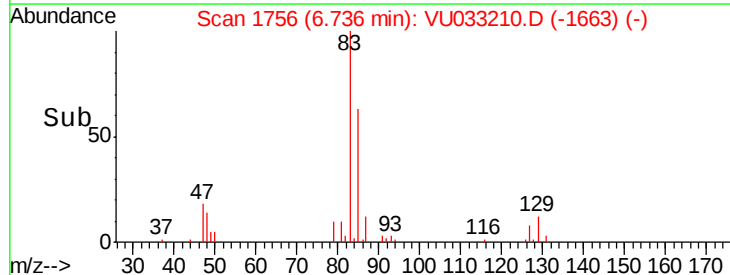
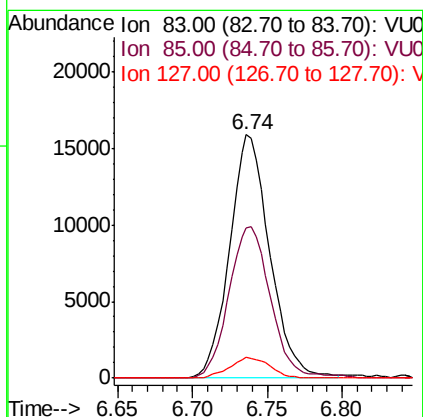
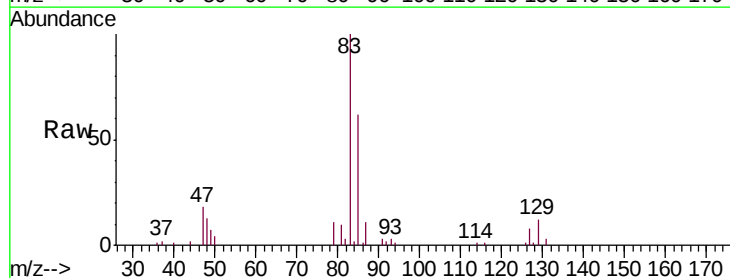
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01033

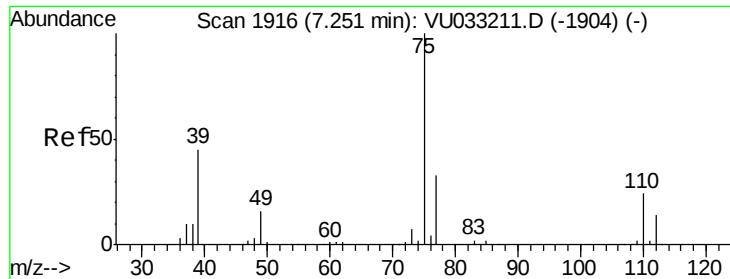
Tgt Ion: 63 Resp: 23196
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.2 4.8



#38
 Bromodichloromethane
 Concen: 9.533 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033210.D
 Acq: 12 Jul 2019 09:41

Tgt Ion: 83 Resp: 29603
 Ion Ratio Lower Upper
 83 100
 85 61.8 45.8 85.0
 127 8.3 6.8 10.2

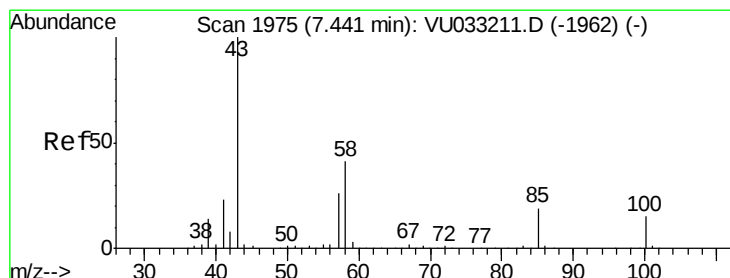
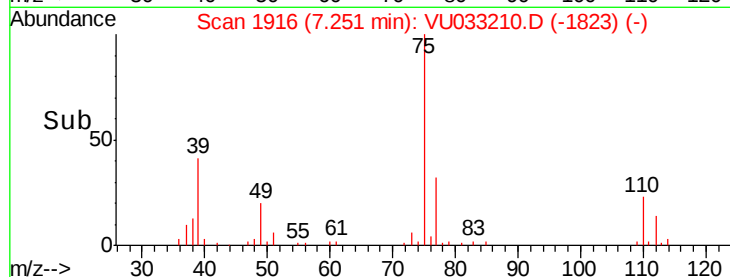
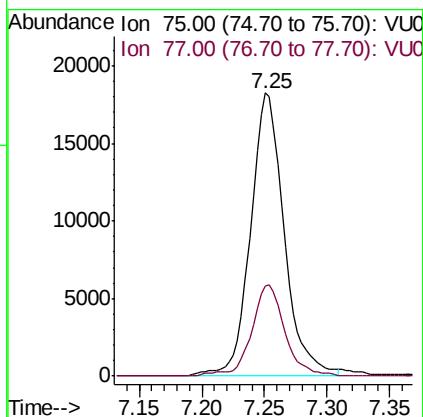
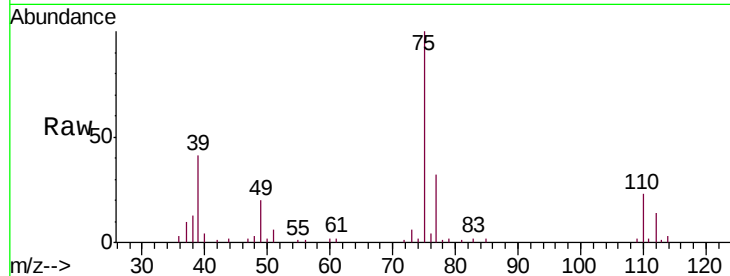




#39
 cis-1,3-Dichloropropene
 Concen: 9.534 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU033210.D
 Acq: 12 Jul 2019 09:41

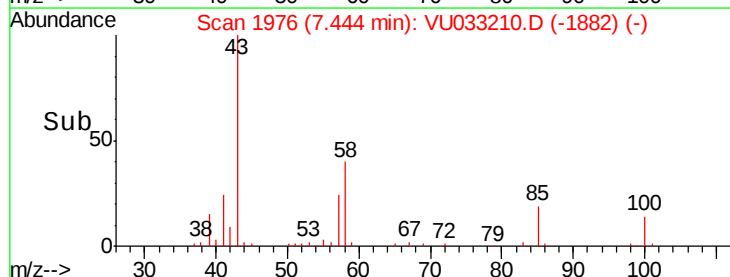
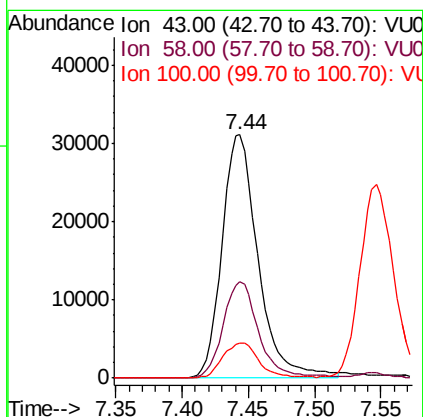
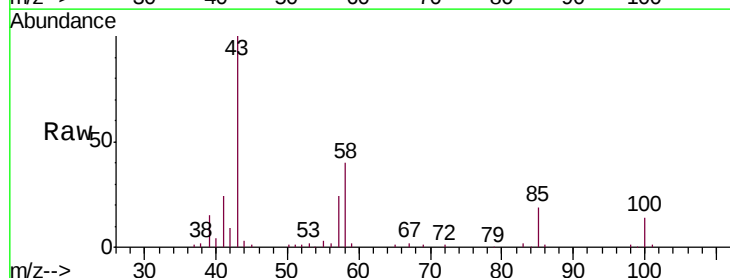
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01033

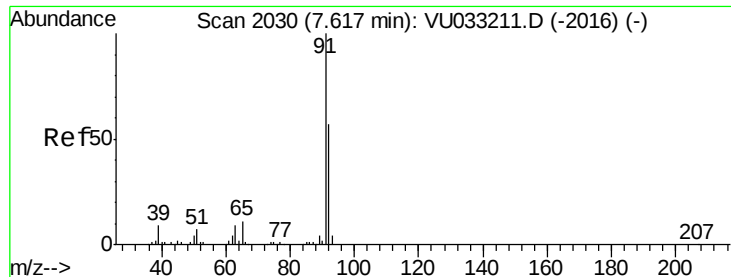
Tgt Ion: 75 Resp: 34178
 Ion Ratio Lower Upper
 75 100
 77 32.0 23.1 42.9



#40
 4-Methyl-2-pentanone
 Concen: 16.303 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033210.D
 Acq: 12 Jul 2019 09:41

Tgt Ion: 43 Resp: 58838
 Ion Ratio Lower Upper
 43 100
 58 39.1 33.3 49.9
 100 14.3 12.1 18.1





#42

Toluene

Concen: 9.697 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

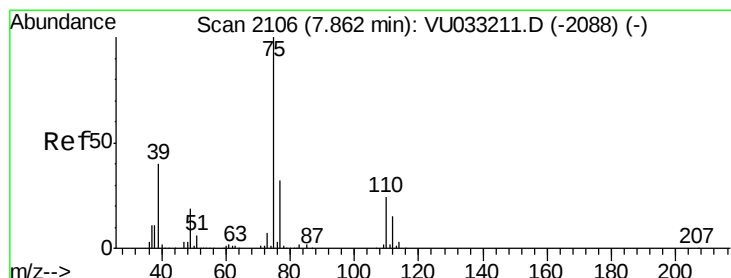
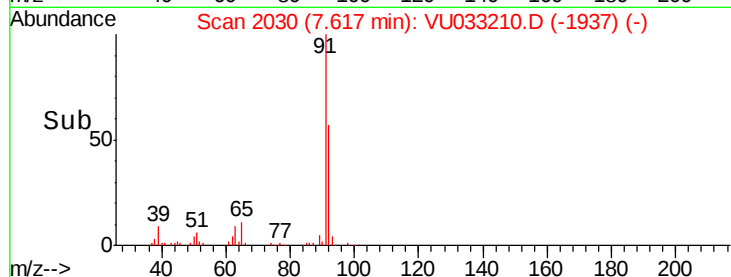
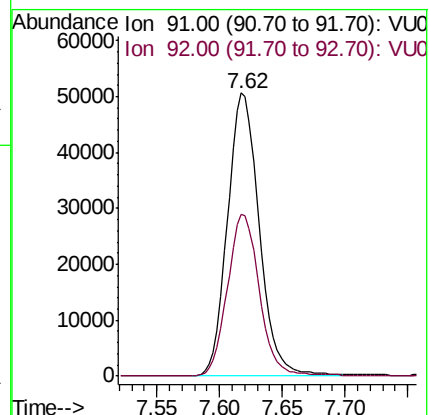
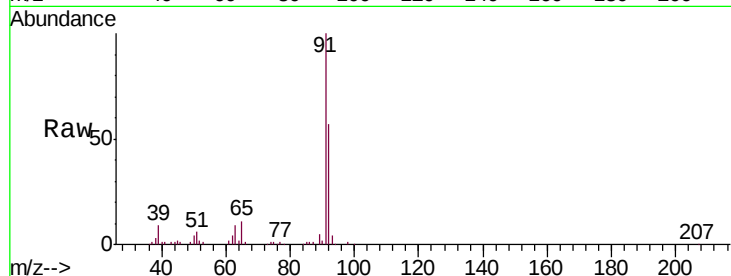
VSTD01033

Tgt Ion: 91 Resp: 89221

Ion Ratio Lower Upper

91 100

92 57.3 39.8 74.0



#44

trans-1,3-Dichloropropene

Concen: 8.846 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033210.D

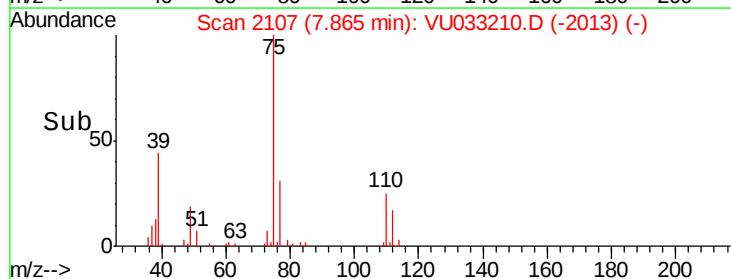
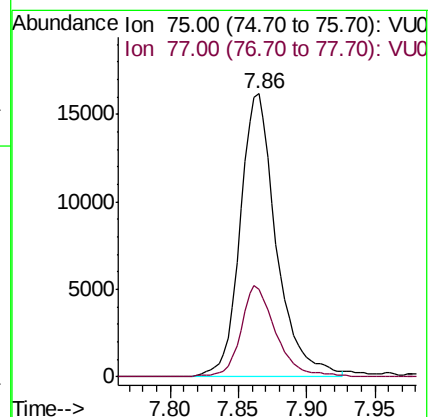
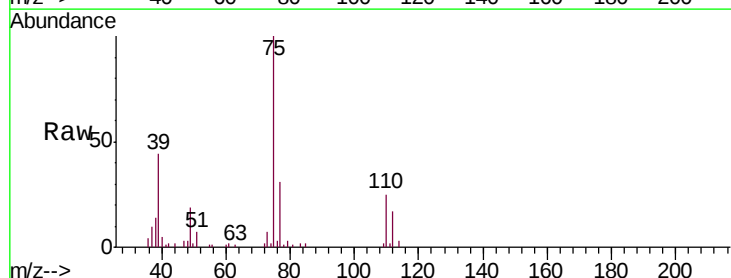
Acq: 12 Jul 2019 09:41

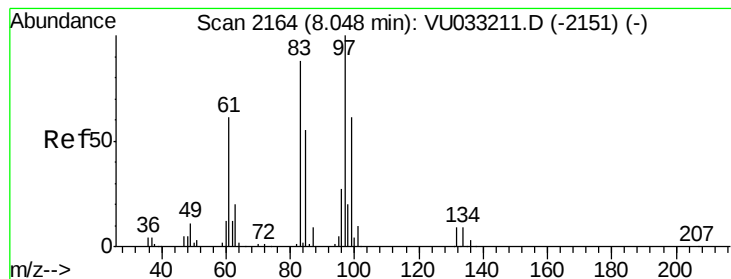
Tgt Ion: 75 Resp: 29868

Ion Ratio Lower Upper

75 100

77 31.0 22.4 41.6





#45

1,1,2-Trichloroethane

Concen: 10.019 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD01033

Tgt Ion: 97 Resp: 21704

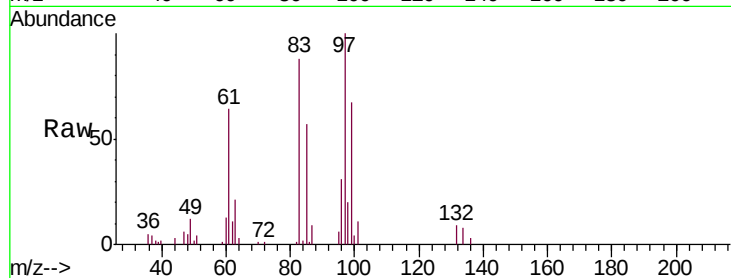
Ion Ratio Lower Upper

97 100

99 66.6 43.0 79.8

83 88.5 61.5 114.3

85 56.8 38.8 72.0

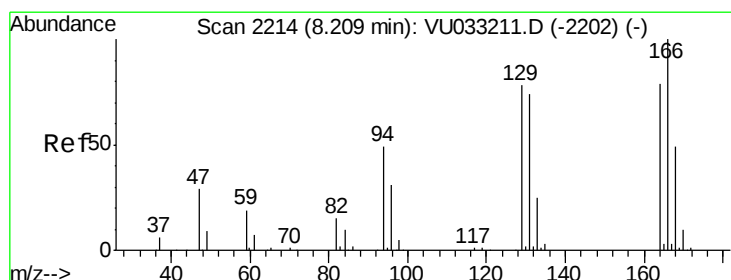
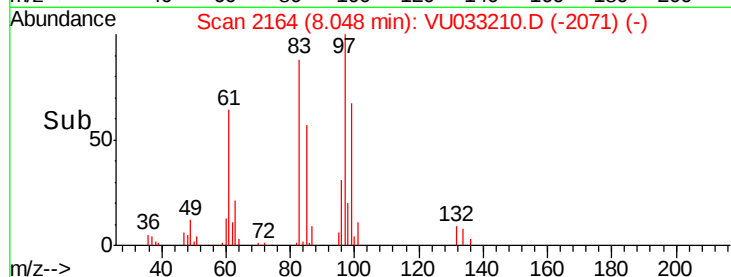
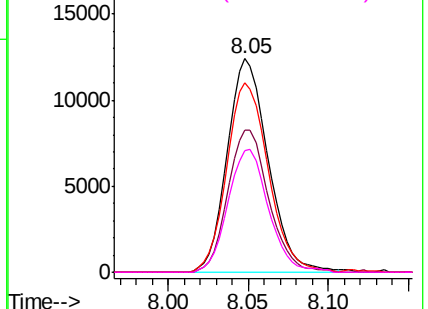


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 9.419 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Tgt Ion: 164 Resp: 17251

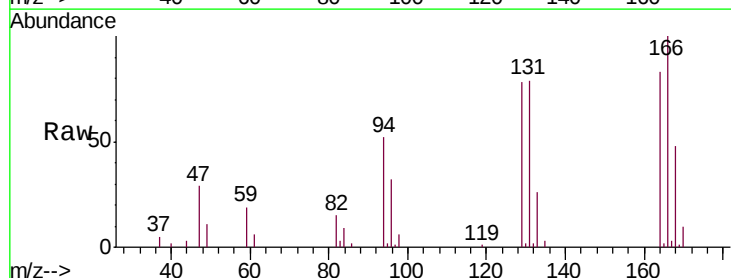
Ion Ratio Lower Upper

164 100

129 93.6 69.6 129.2

131 94.7 65.7 122.1

166 119.8 88.5 164.4

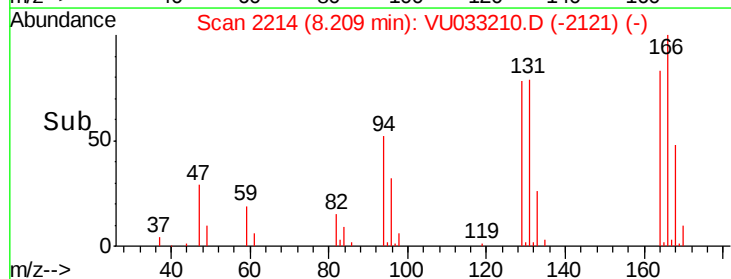
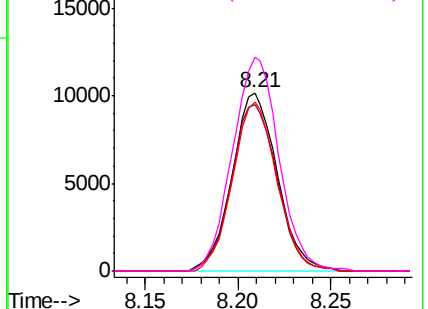


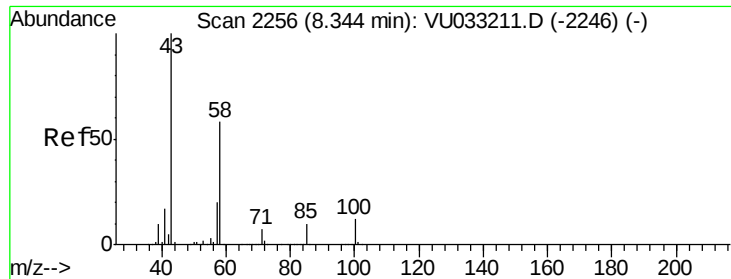
Abundance Ion 164.00 (163.70 to 164.70): V

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

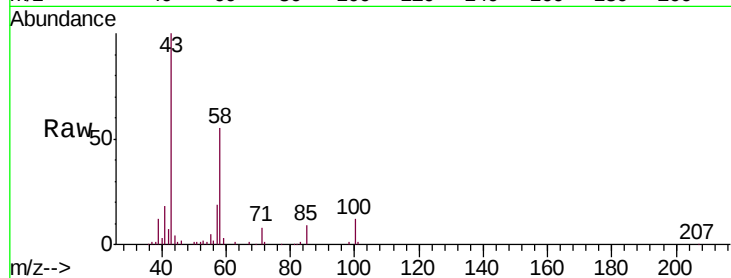




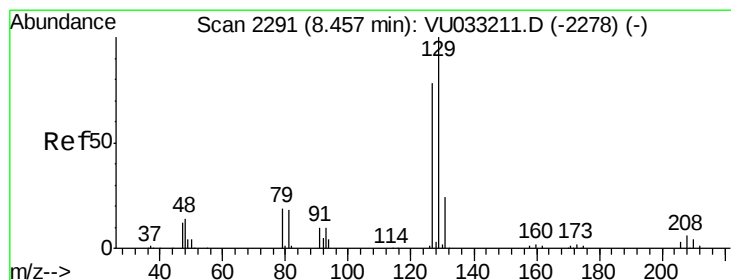
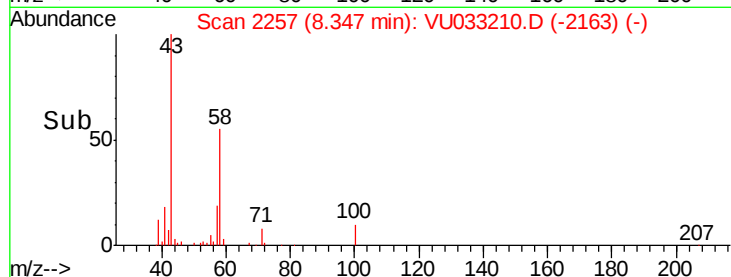
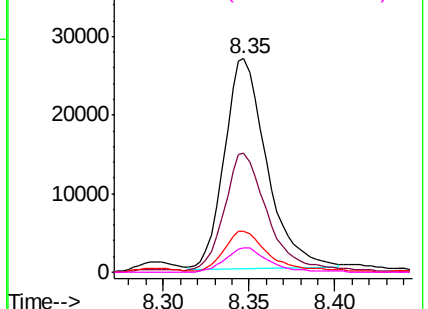
#48
2-Hexanone
Concen: 14.658 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU033210.D
Acq: 12 Jul 2019 09:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD01033

Tgt Ion:	43	Resp:	46037
Ion	Ratio	Lower	Upper
43	100		
58	58.0	46.1	69.1
57	19.8	15.8	23.8
100	12.1	9.4	14.2

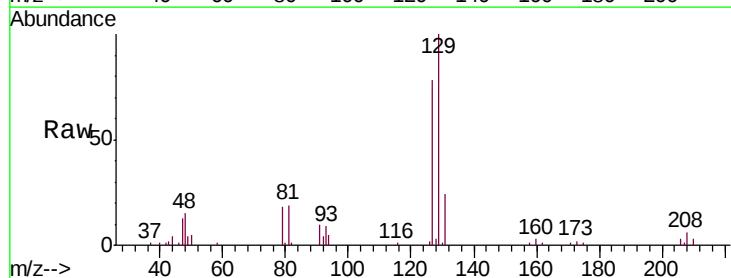


Abundance Ion 43.00 (42.70 to 43.70): VU033210.D (-2163) (-)
Ion 58.00 (57.70 to 58.70): VU033210.D (-2163) (-)
Ion 57.00 (56.70 to 57.70): VU033210.D (-2163) (-)
Ion 100.00 (99.70 to 100.70): VU033210.D (-2163) (-)

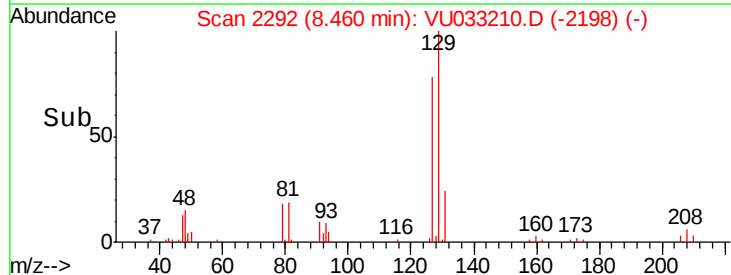
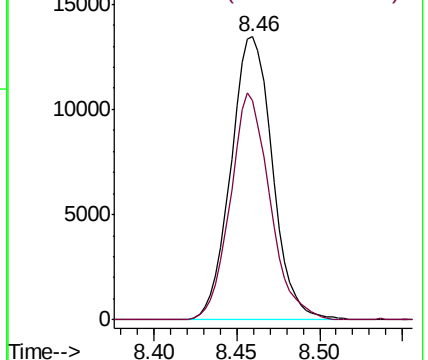


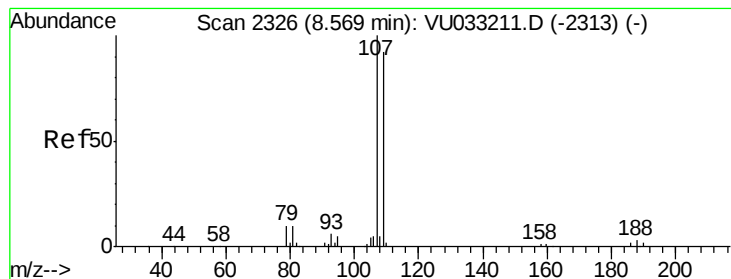
#49
Dibromochloromethane
Concen: 9.137 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033210.D
Acq: 12 Jul 2019 09:41

Tgt Ion:	129	Resp:	23512
Ion	Ratio	Lower	Upper
129	100		
127	77.6	54.3	100.9



Abundance Ion 129.00 (128.70 to 129.70): VU033210.D (-2198) (-)
Ion 127.00 (126.70 to 127.70): VU033210.D (-2198) (-)





#50

1,2-Dibromoethane

Concen: 9.659 ug/L

RT: 8.57 min Scan# 2326

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD01033

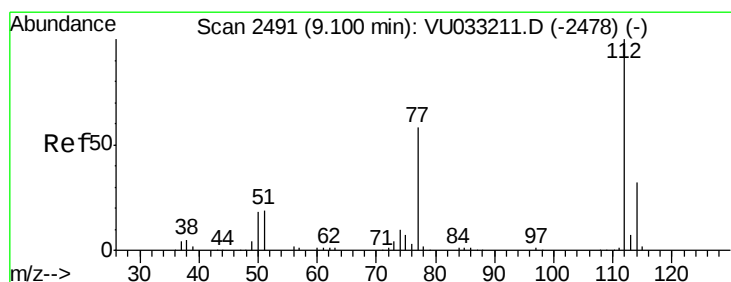
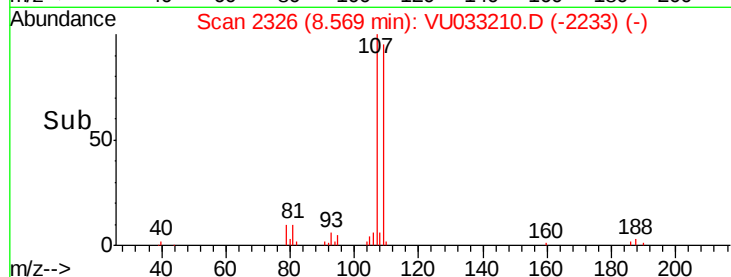
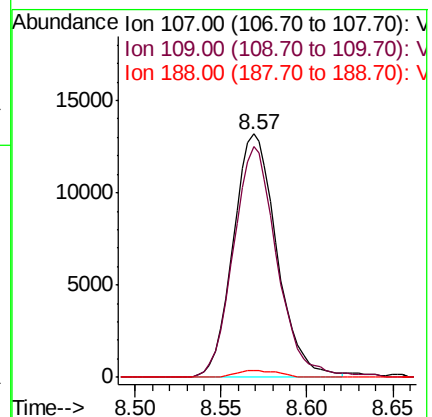
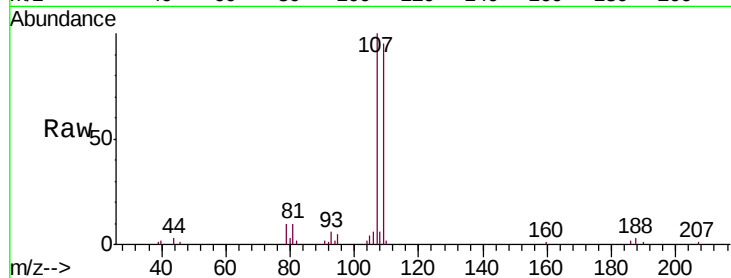
Tgt Ion:107 Resp: 23206

Ion Ratio Lower Upper

107 100

109 94.7 64.2 119.2

188 2.8 2.6 4.0



#51

Chlorobenzene

Concen: 9.755 ug/L

RT: 9.10 min Scan# 2492

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

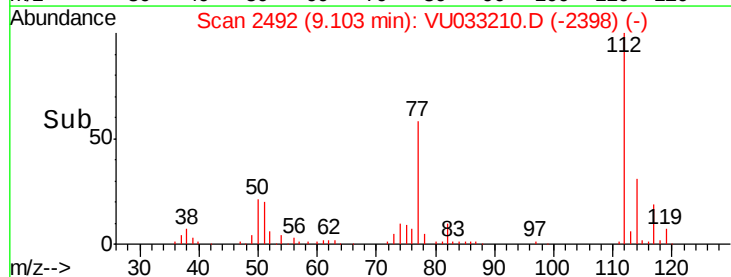
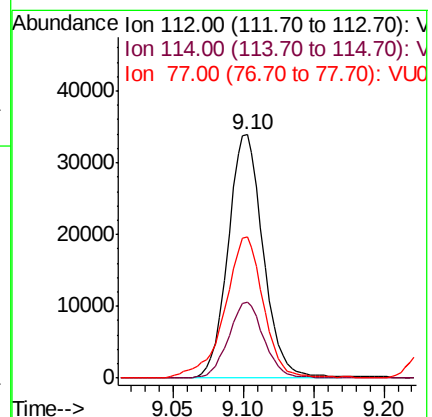
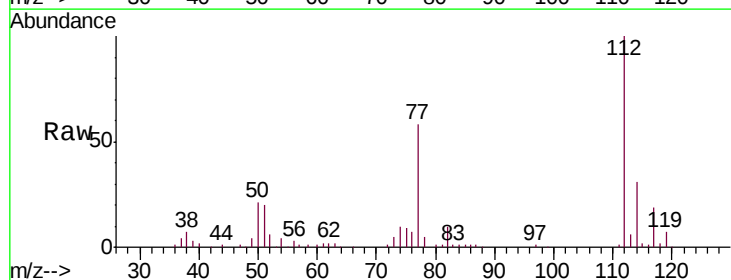
Tgt Ion:112 Resp: 58965

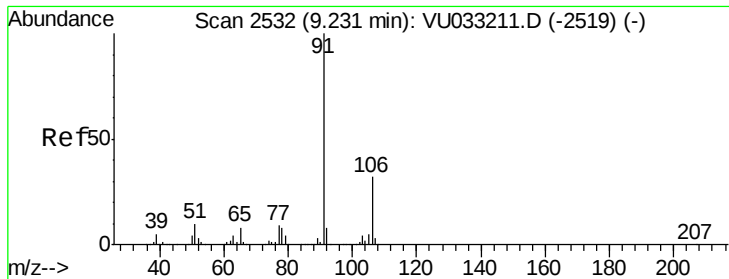
Ion Ratio Lower Upper

112 100

114 31.3 22.3 41.3

77 58.1 47.2 70.8





#52

Ethylbenzene

Concen: 9.070 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

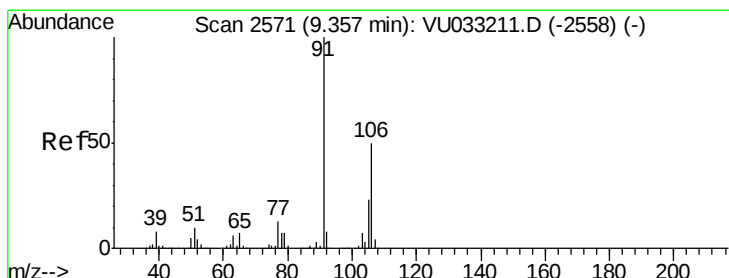
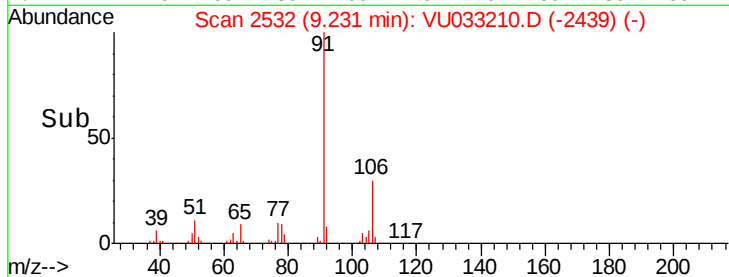
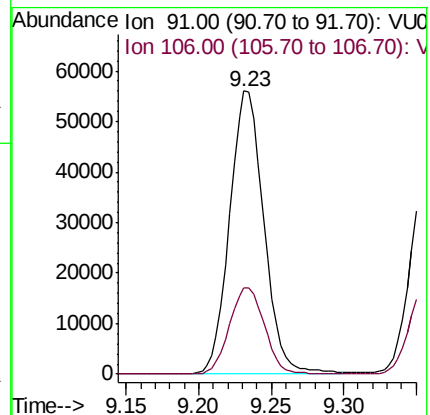
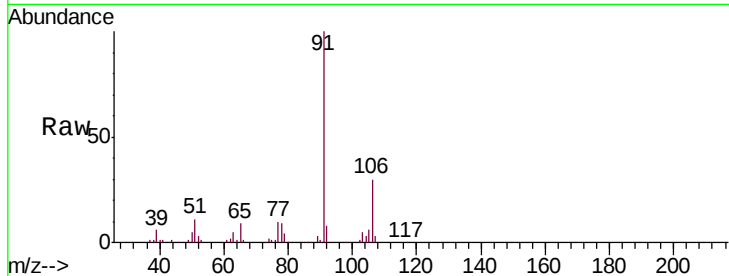
VSTD01033

Tgt Ion: 91 Resp: 92087

Ion Ratio Lower Upper

91 100

106 30.3 22.2 41.2



#53

m,p-Xylene

Concen: 8.721 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033210.D

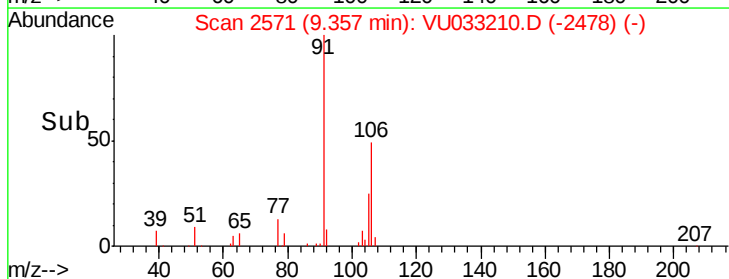
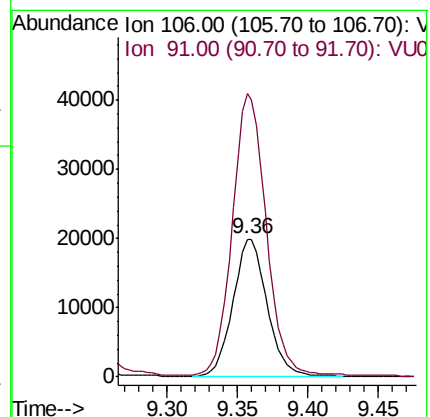
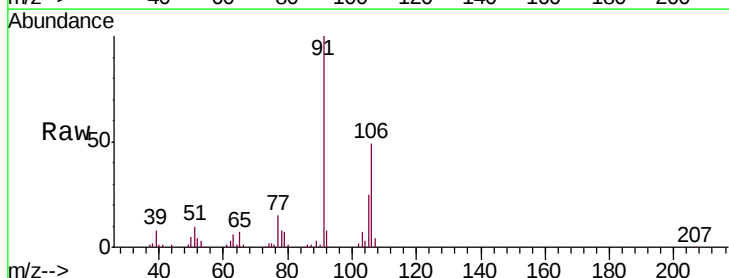
Acq: 12 Jul 2019 09:41

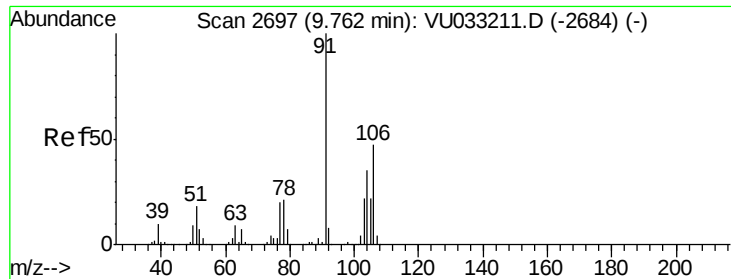
Tgt Ion: 106 Resp: 33466

Ion Ratio Lower Upper

106 100

91 205.0 141.3 262.3





#54

o-xylene

Concen: 9.055 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

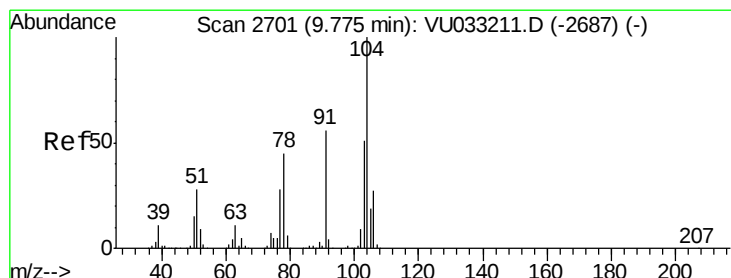
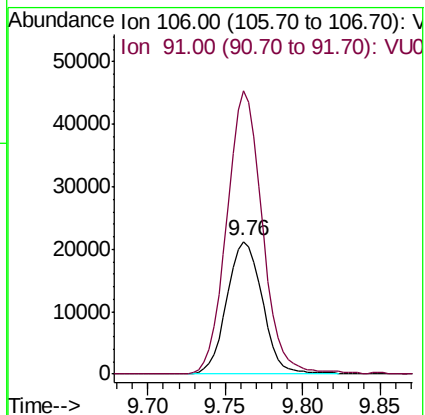
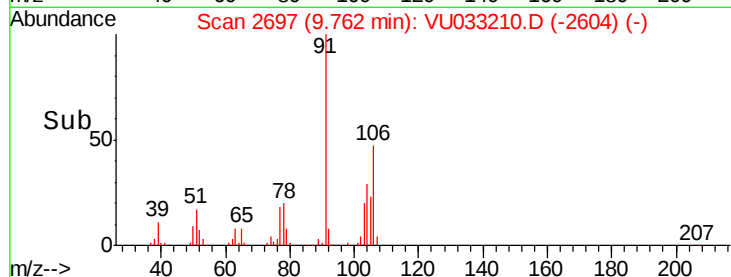
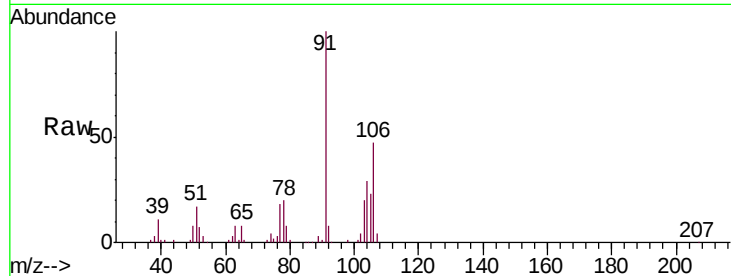
VSTD01033

Tgt Ion:106 Resp: 34005

Ion Ratio Lower Upper

106 100

91 213.2 150.5 279.5



#55

Styrene

Concen: 8.554 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033210.D

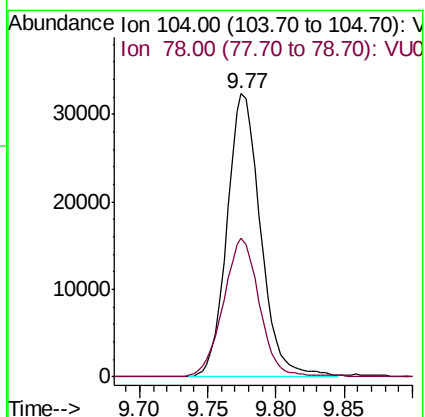
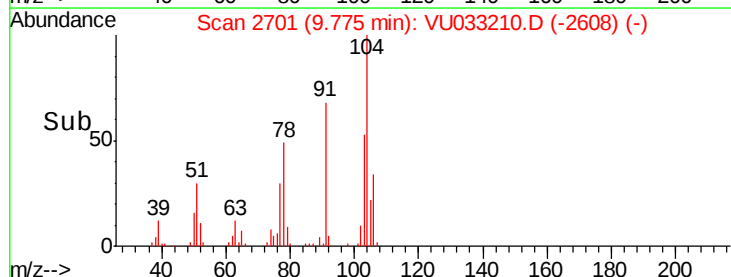
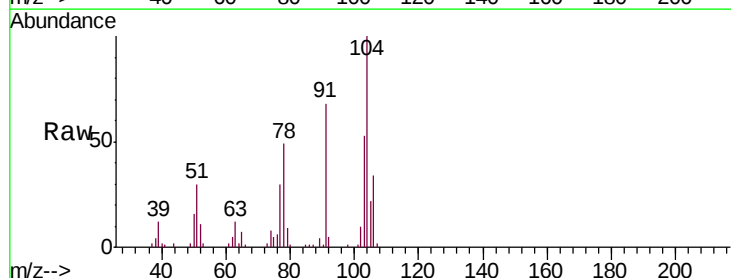
Acq: 12 Jul 2019 09:41

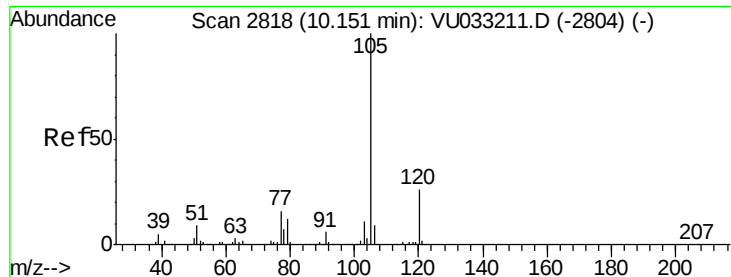
Tgt Ion:104 Resp: 55555

Ion Ratio Lower Upper

104 100

78 48.9 31.8 59.0





#56

Isopropylbenzene

Concen: 8.485 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD01033

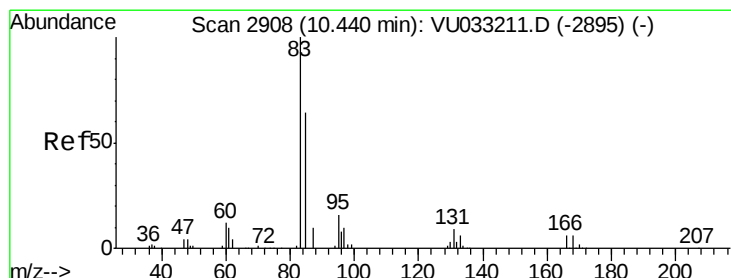
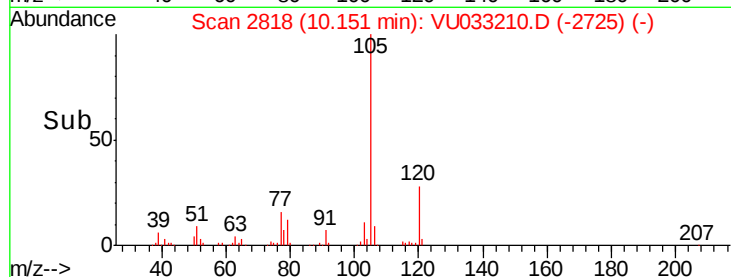
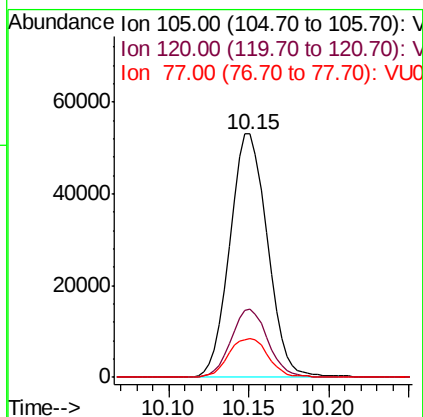
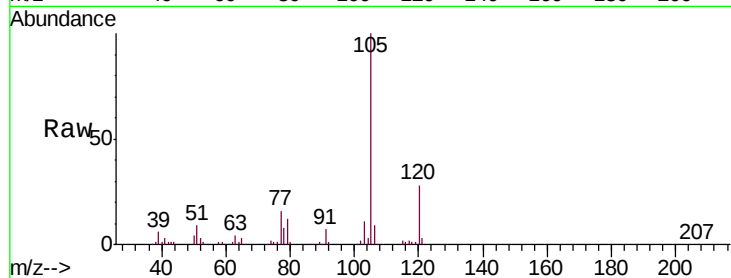
Tgt Ion: 105 Resp: 85262

Ion Ratio Lower Upper

105 100

120 27.3 21.2 31.8

77 16.6 12.9 19.3



#58

1,1,2,2-Tetrachloroethane

Concen: 9.640 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

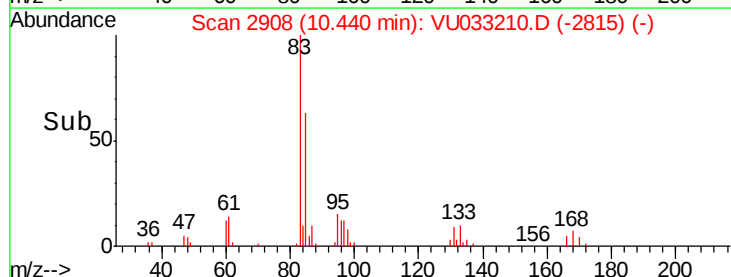
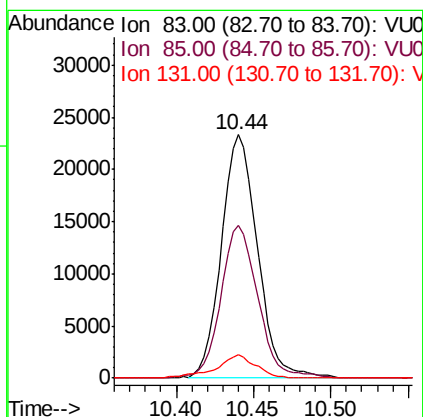
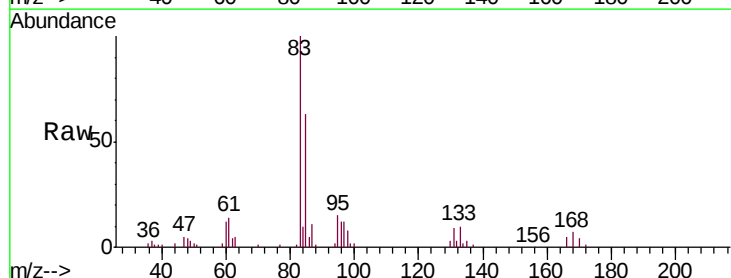
Tgt Ion: 83 Resp: 37855

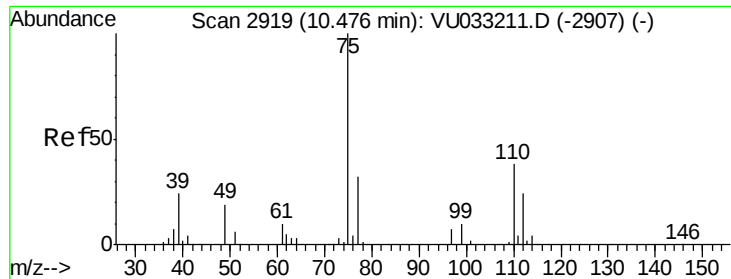
Ion Ratio Lower Upper

83 100

85 62.9 44.9 83.3

131 9.4 7.6 11.4





#59

1,2,3-Trichloropropane

Concen: 9.484 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

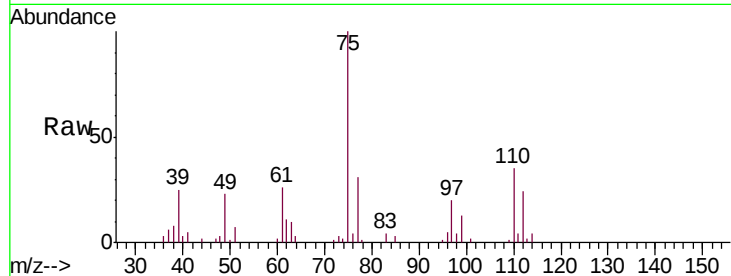
VSTD01033

Tgt Ion: 75 Resp: 29356

Ion Ratio Lower Upper

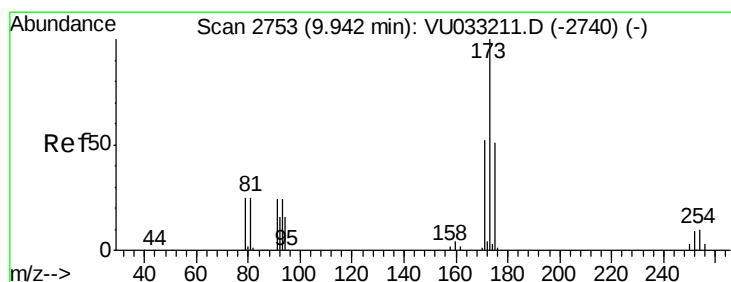
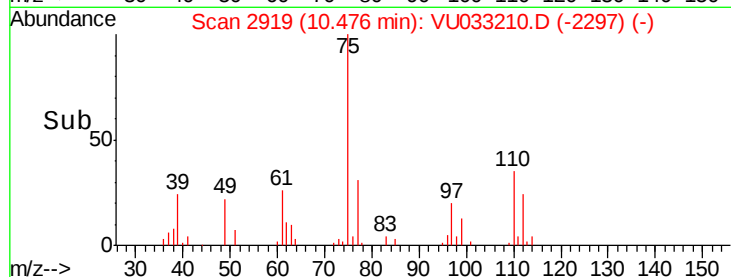
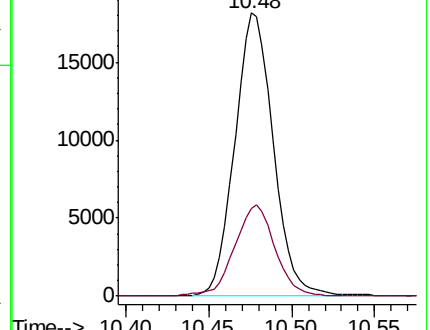
75 100

77 33.6 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) (-)



#61

Bromoform

Concen: 9.371 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

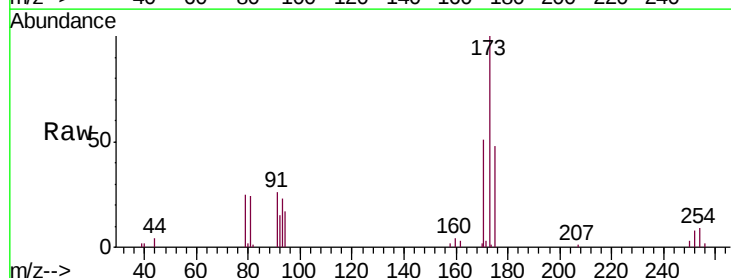
Tgt Ion: 173 Resp: 16561

Ion Ratio Lower Upper

173 100

175 48.5 40.0 60.0

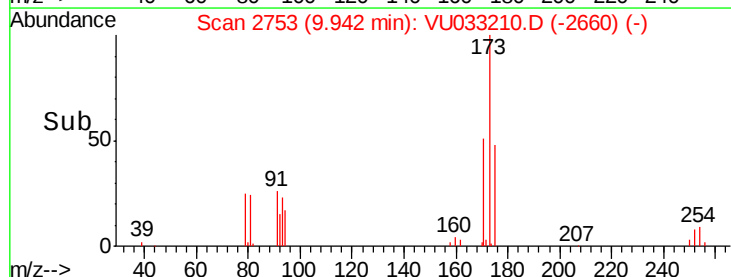
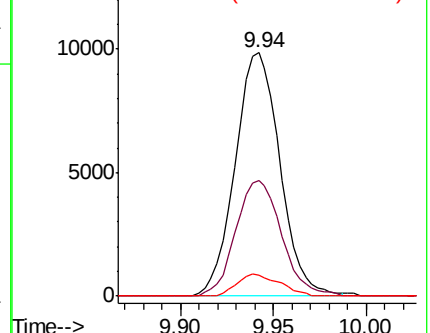
254 8.7 7.3 10.9

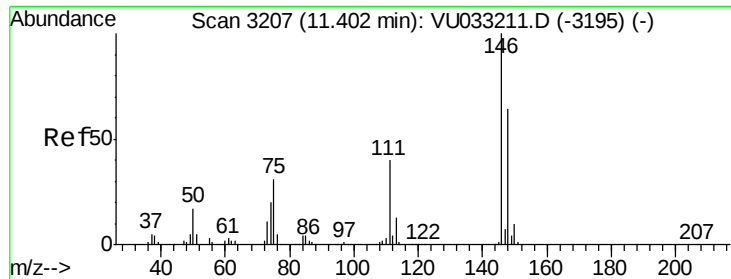


Abundance Ion 173.00 (172.70 to 173.70): VU033211.D (-2740) (-)

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

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





#62

1,3-Dichlorobenzene

Concen: 9.441 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD01033

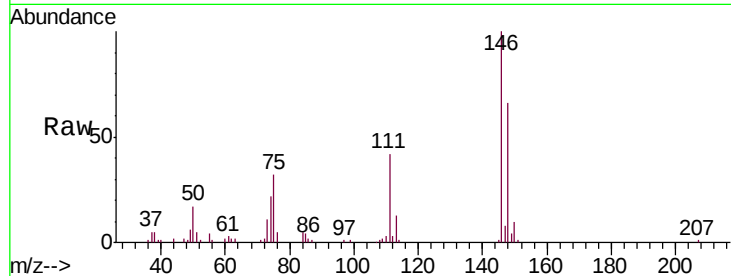
Tgt Ion:146 Resp: 40275

Ion Ratio Lower Upper

146 100

111 41.9 28.0 52.0

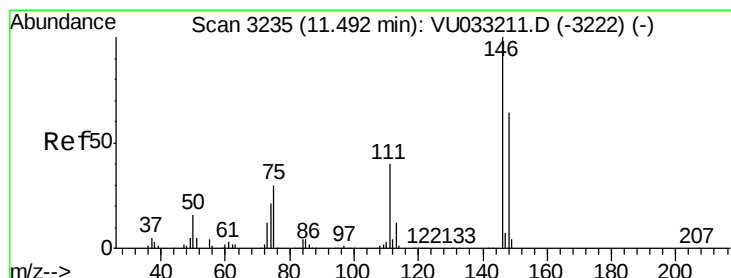
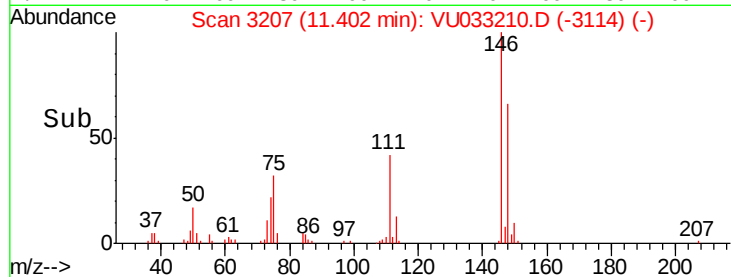
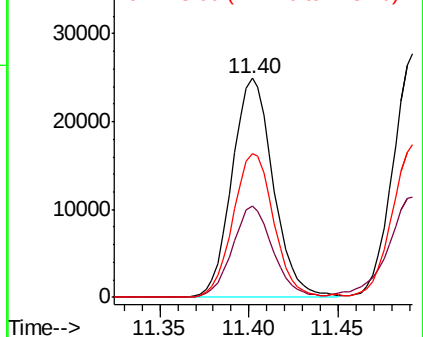
148 65.9 44.7 83.1



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: 9.741 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

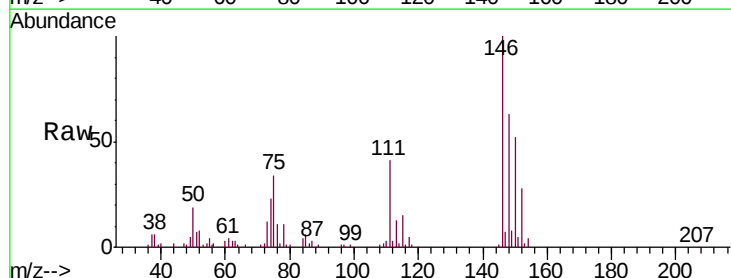
Tgt Ion:146 Resp: 43027

Ion Ratio Lower Upper

146 100

111 41.0 27.8 51.6

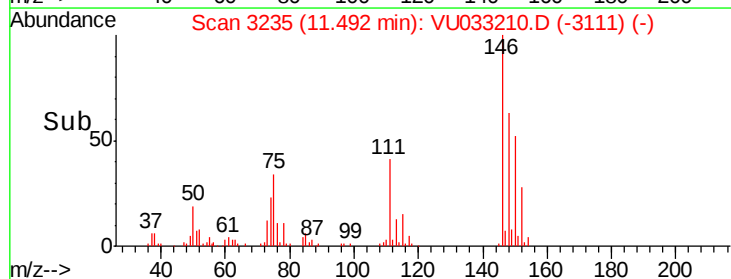
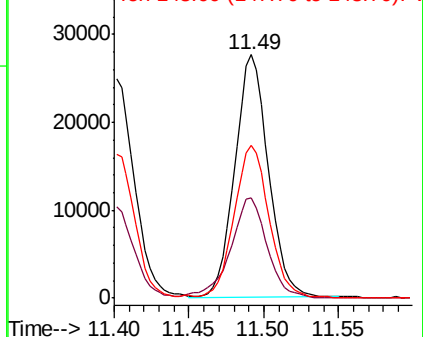
148 62.6 44.6 82.8

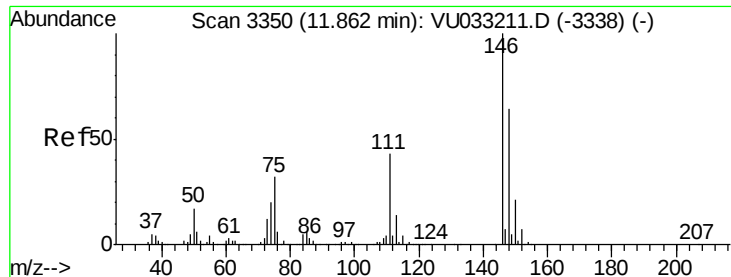


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 9.513 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD01033

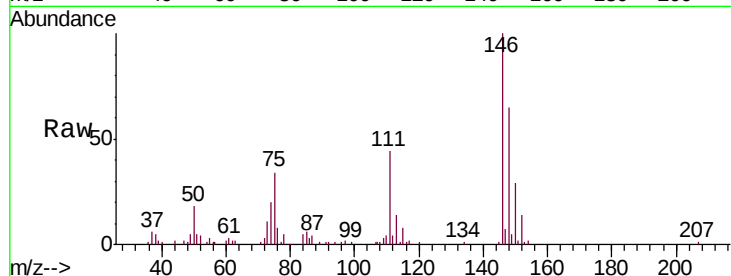
Tgt Ion:146 Resp: 41533

Ion Ratio Lower Upper

146 100

111 43.5 34.3 51.5

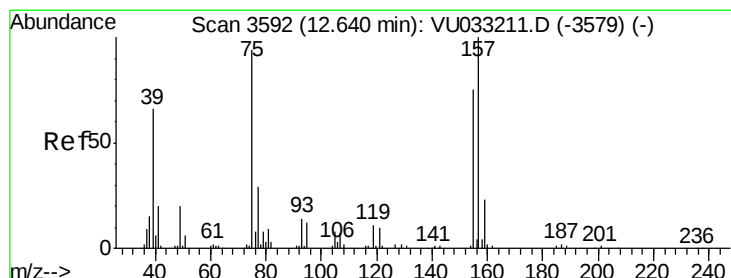
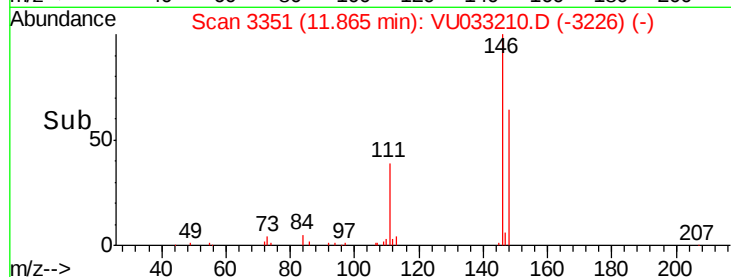
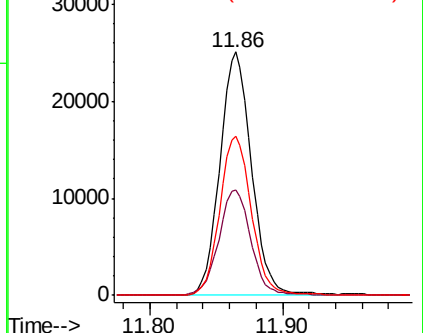
148 65.2 51.5 77.3



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: 10.452 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

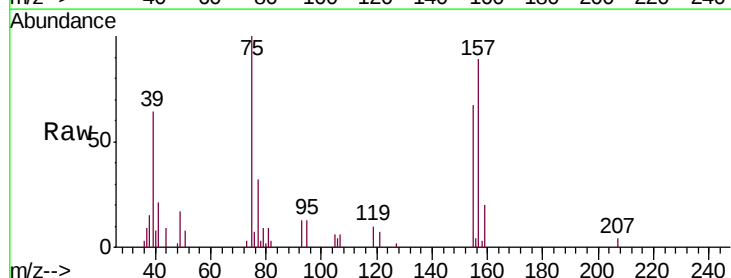
Tgt Ion: 75 Resp: 8634

Ion Ratio Lower Upper

75 100

155 66.7 63.5 95.3

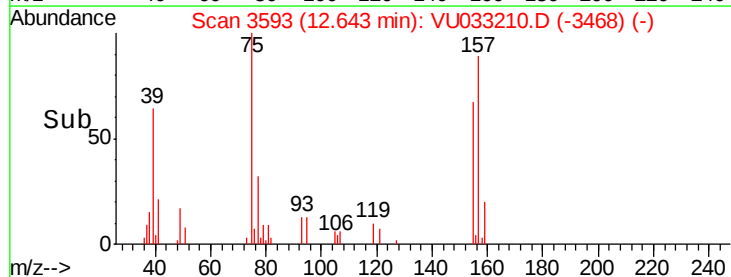
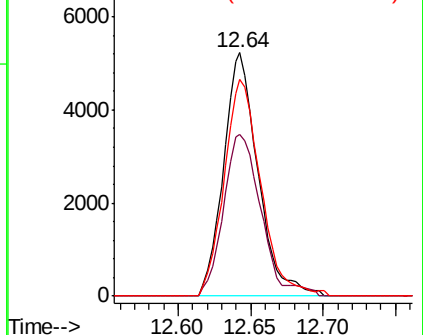
157 88.8 84.6 127.0

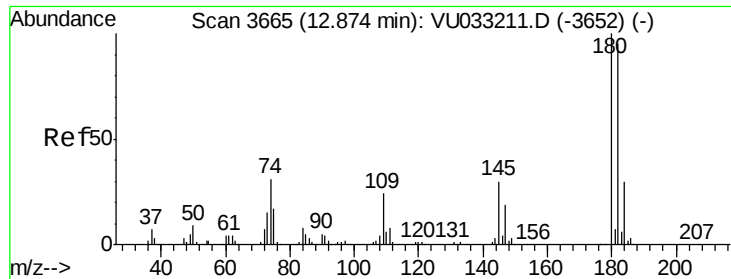


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#67

1,3,5-Trichlorobenzene

Concen: 8.405 ug/L

RT: 12.87 min Scan# 3665

Delta R.T. -0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD01033

Tgt Ion:180 Resp: 28467

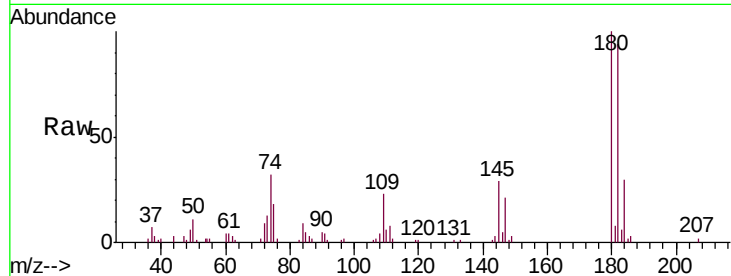
Ion Ratio Lower Upper

180 100

182 97.7 75.5 113.3

184 29.9 24.2 36.2

145 30.4 24.1 36.1

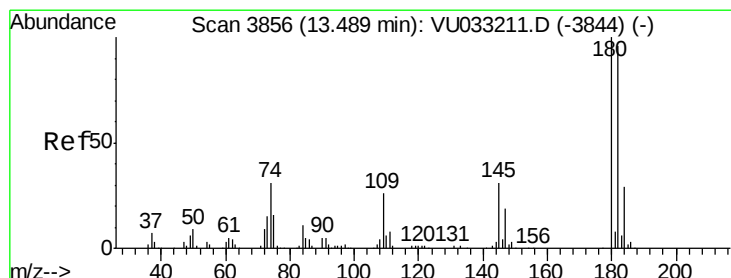
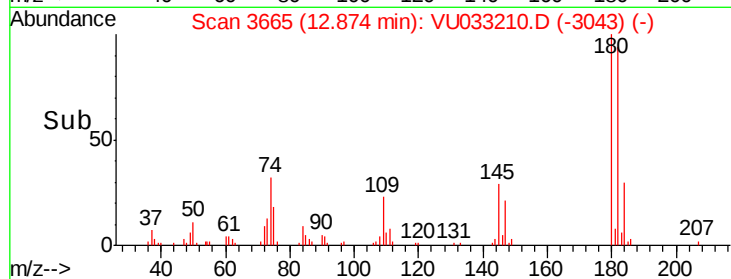
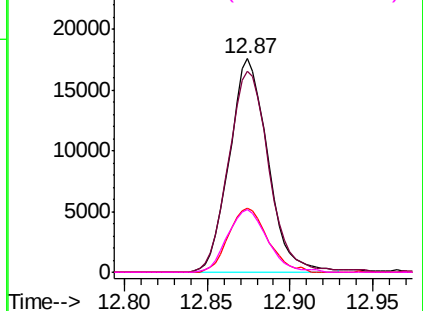


Abundance Ion 180.00 (179.70 to 180.70): V

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: 8.224 ug/L

RT: 13.49 min Scan# 3857

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

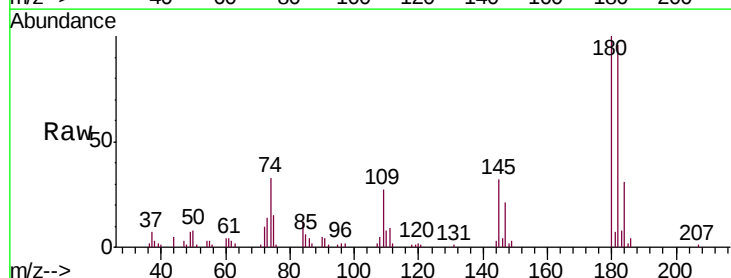
Tgt Ion:180 Resp: 23782

Ion Ratio Lower Upper

180 100

182 97.2 76.5 114.7

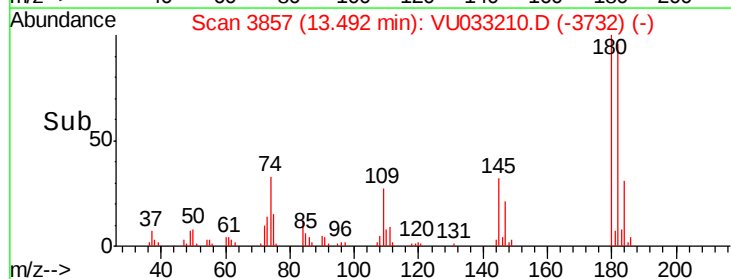
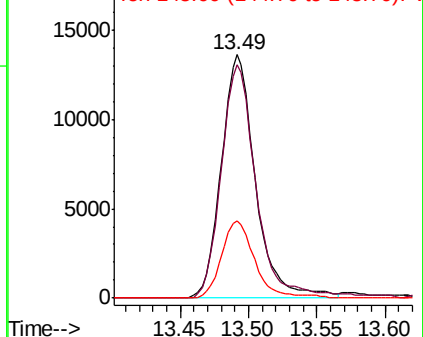
145 30.9 24.6 36.8

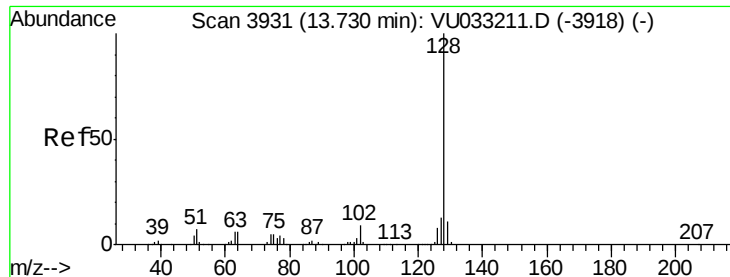


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 7.654 ug/L

RT: 13.73 min Scan# 3932

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD01033

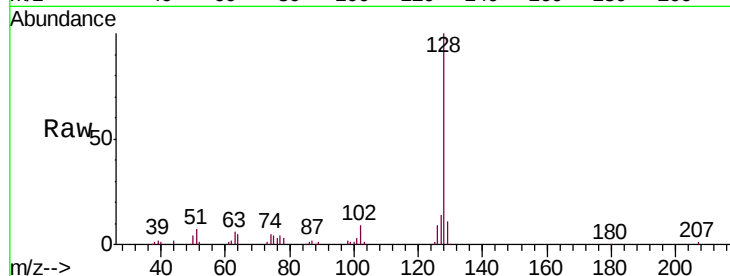
Tgt Ion:128 Resp: 68896

Ion Ratio Lower Upper

128 100

127 13.6 10.8 16.2

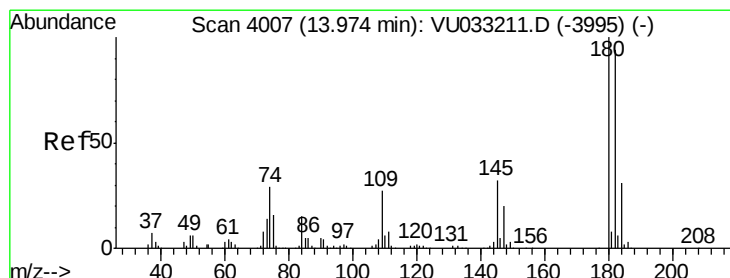
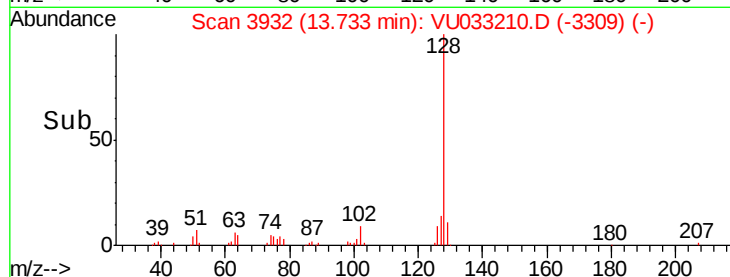
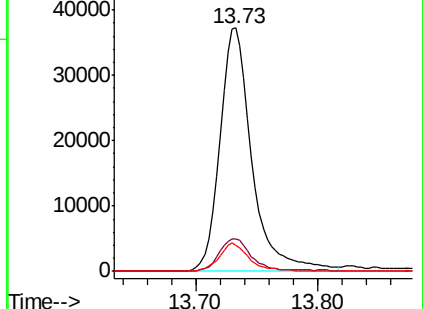
129 10.8 8.7 13.1



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: 8.644 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.00 min

Lab File: VU033210.D

Acq: 12 Jul 2019 09:41

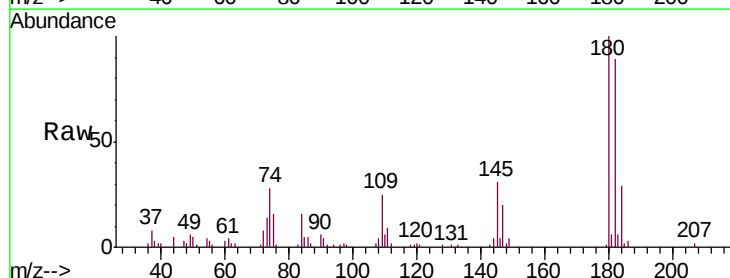
Tgt Ion:180 Resp: 26536

Ion Ratio Lower Upper

180 100

182 92.4 77.4 116.2

145 31.4 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

