

Data File : VU033812.D
Acq On : 15 Aug 2019 15:50
Operator : JC/SP
Sample : VSTD10031
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD10031

Quant Time: Aug 16 01:48:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 01:44:58 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.87	114	419361	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	415491	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	223549	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	375400	116.77	ug/L	0.00
7) Chloroethane-d5	1.67	69	332217	103.89	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	620689	115.40	ug/L	0.00
21) 2-Butanone-d5	4.15	46	440341	228.76	ug/L	0.00
24) Chloroform-d	4.62	84	611559	126.14	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	377463	124.15	ug/L	0.00
32) Benzene-d6	5.32	84	1218635	120.21	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	382154	121.59	ug/L	0.00
41) Toluene-d8	7.54	98	1165694	122.13	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	190675	122.33	ug/L	0.00
47) 2-Hexanone-d5	8.29	63	338797	222.23	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	536035	116.62	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	454557	117.57	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	398969	122.042	ug/L	100
3) Chloromethane	1.32	50	409588	121.652	ug/L	100
5) Vinyl chloride	1.39	62	461399	122.922	ug/L	99
6) Bromomethane	1.61	94	494683	160.484	ug/L	98
8) Chloroethane	1.69	64	286085	103.431	ug/L	97
9) Trichlorofluoromethane	1.87	101	599741	119.009	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	294681	113.240	ug/L	99
12) 1,1-Dichloroethene	2.27	96	284043	111.052	ug/L	94
13) Acetone	2.31	43	374459	192.918	ug/L	96
14) Carbon disulfide	2.46	76	895225	121.859	ug/L	99
15) Methyl Acetate	2.60	43	315094	97.775	ug/L	99
16) Methylene chloride	2.68	84	325604	110.583	ug/L	97
17) trans-1,2-Dichloroethene	2.96	96	301266	110.960	ug/L	98
18) Methyl tert-butyl Ether	2.98	73	930168	106.613	ug/L	100
19) 1,1-Dichloroethane	3.42	63	569887	110.657	ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	340630	110.578	ug/L	97
22) 2-Butanone	4.23	43	488146	204.775	ug/L	100
23) Bromochloromethane	4.52	128	178009	111.627	ug/L	99
25) Chloroform	4.65	83	590480	110.039	ug/L	99
27) 1,2-Dichloroethane	5.38	62	460312	112.430	ug/L	99
29) Cyclohexane	4.97	56	493431	111.081	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	498464	108.322	ug/L	100
31) Carbon tetrachloride	5.11	117	457816	110.320	ug/L	99
33) Benzene	5.36	78	1294142	109.259	ug/L	100
34) Trichloroethene	6.16	95	338942	108.620	ug/L	99
35) Methylcyclohexane	6.40	83	537169	113.796	ug/L	98
37) 1,2-Dichloropropane	6.41	63	347486	109.944	ug/L	100
38) Bromodichloromethane	6.74	83	445333	109.827	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	557211	112.024	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	887381	196.309	ug/L	100

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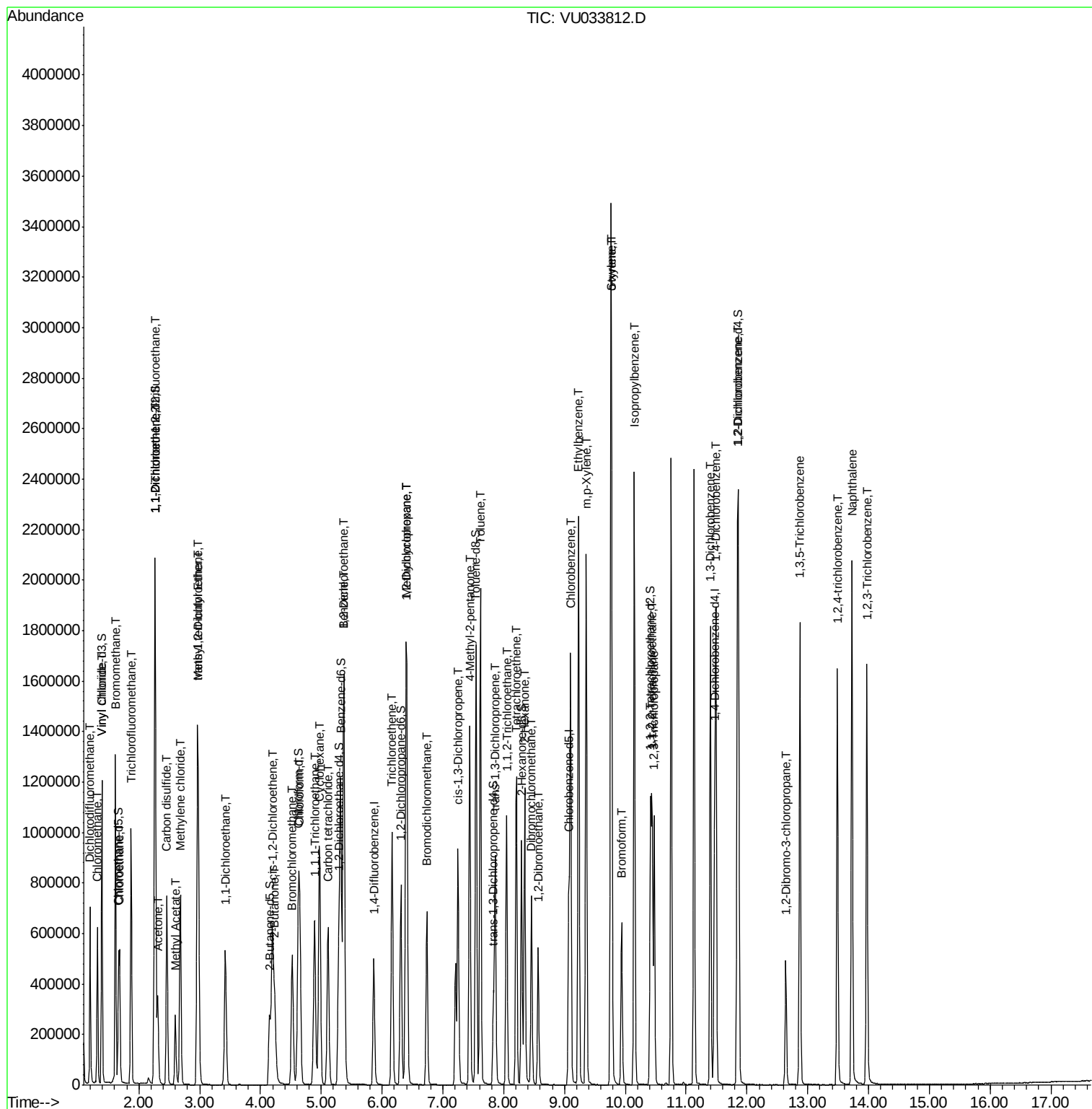
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	1421543	111.354	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	499110	112.865	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	324815	106.140	ug/L	98
46) Tetrachloroethene	8.21	164	273715	107.451	ug/L	98
48) 2-Hexanone	8.34	43	701811	196.476	ug/L	99
49) Dibromochloromethane	8.46	129	375664	109.131	ug/L	98
50) 1,2-Dibromoethane	8.57	107	355020	105.394	ug/L	99
51) Chlorobenzene	9.10	112	890491	106.661	ug/L	99
52) Ethylbenzene	9.23	91	1540002	110.970	ug/L	99
53) m,p-Xylene	9.36	106	587263	110.993	ug/L	99
54) o-xylene	9.76	106	577780	110.620	ug/L	97
55) Styrene	9.77	104	1008115	114.473	ug/L	99
56) Isopropylbenzene	10.15	105	1508941	110.463	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	536036	100.960	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	423457	100.493	ug/L	99
61) Bromoform	9.94	173	286698	105.794	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	726610	105.751	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	729265	104.698	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	728167	107.181	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	122327	98.002	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	572438	105.725	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	511054	106.163	ug/L	100
69) Naphthalene	13.73	128	1596976	111.795	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	523812	103.802	ug/L	99

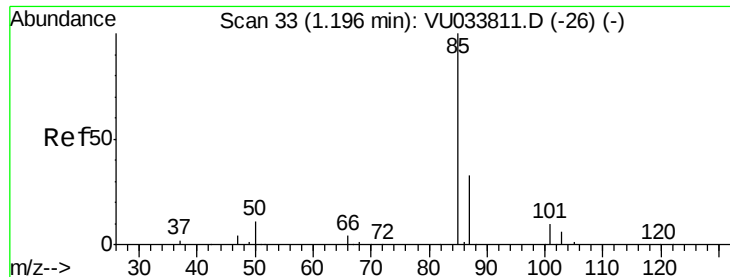
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 122.042 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

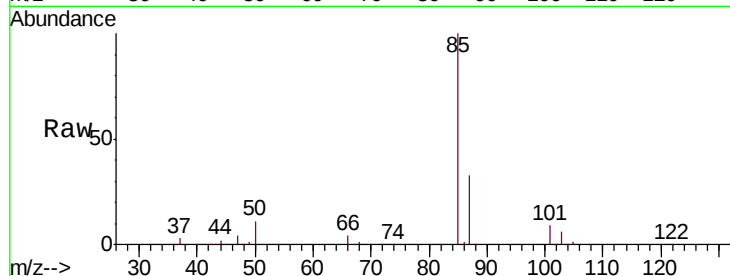
VSTD10031

Tgt Ion: 85 Resp: 398969

Ion Ratio Lower Upper

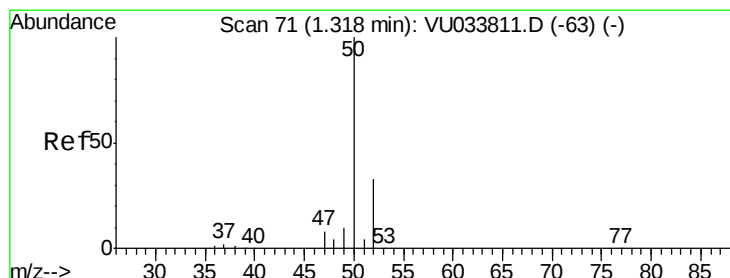
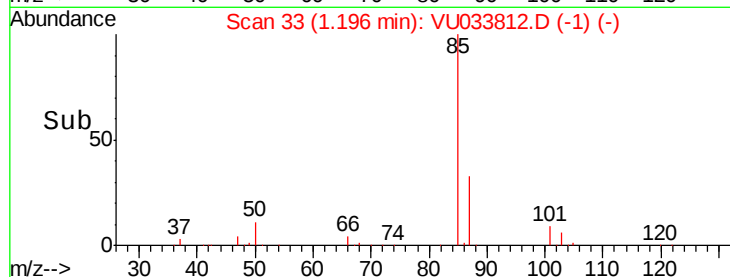
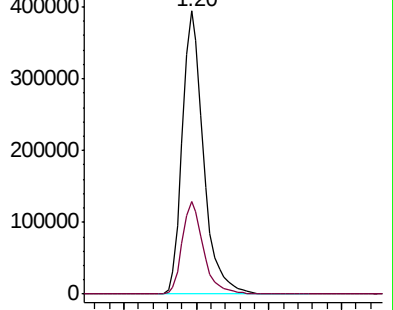
85 100

87 32.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU033812.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033812.D (-1) (-)



#3

Chloromethane

Concen: 121.652 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033812.D

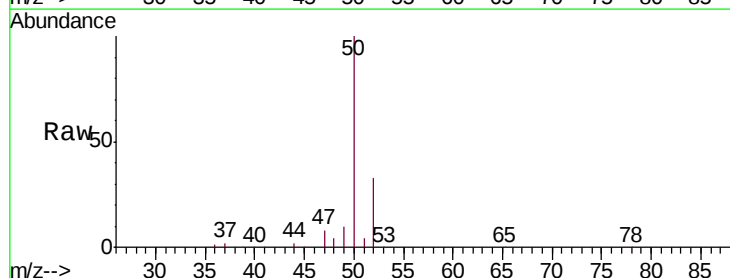
Acq: 15 Aug 2019 15:50

Tgt Ion: 50 Resp: 409588

Ion Ratio Lower Upper

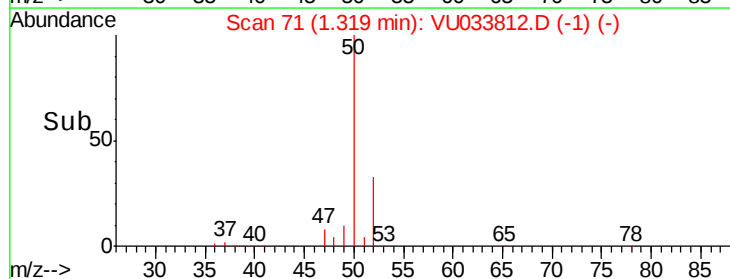
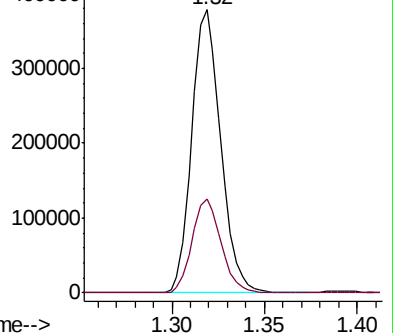
50 100

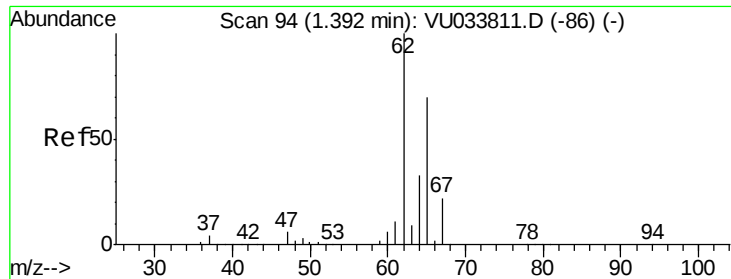
52 33.3 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033812.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033812.D (-1) (-)





#5

Vinyl chloride

Concen: 122.922 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

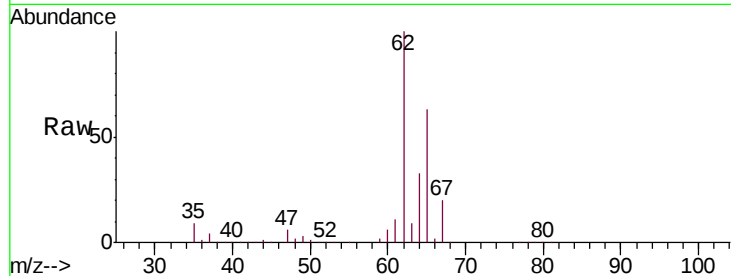
VSTD10031

Tgt Ion: 62 Resp: 461399

Ion Ratio Lower Upper

62 100

64 33.0 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VU033812.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033812.D (-86) (-)

1.39

400000

300000

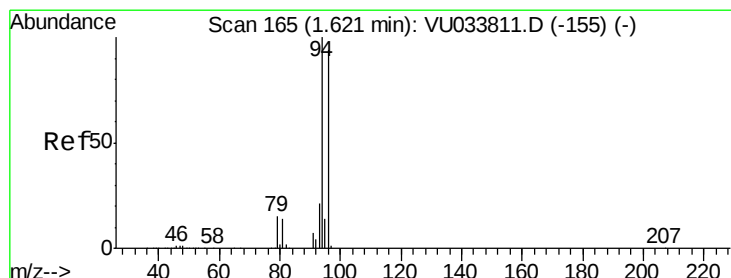
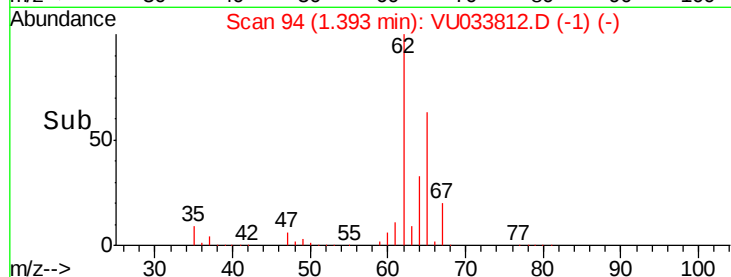
200000

100000

0

1.35 1.40 1.45 1.50

Time-->



#6

Bromomethane

Concen: 160.484 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.01 min

Lab File: VU033812.D

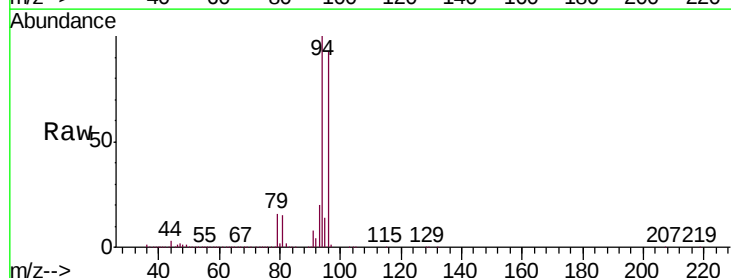
Acq: 15 Aug 2019 15:50

Tgt Ion: 94 Resp: 494683

Ion Ratio Lower Upper

94 100

96 92.6 65.9 122.3



Abundance Ion 94.00 (93.70 to 94.70): VU033812.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033812.D (-155) (-)

1.61

500000

400000

300000

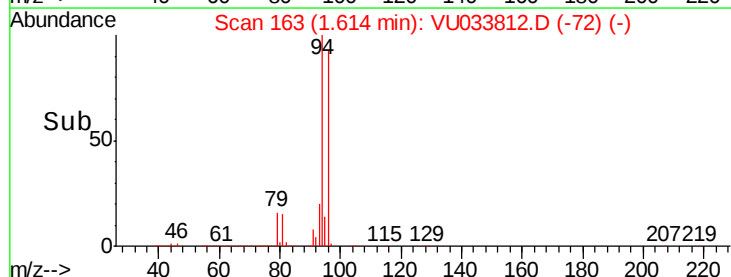
200000

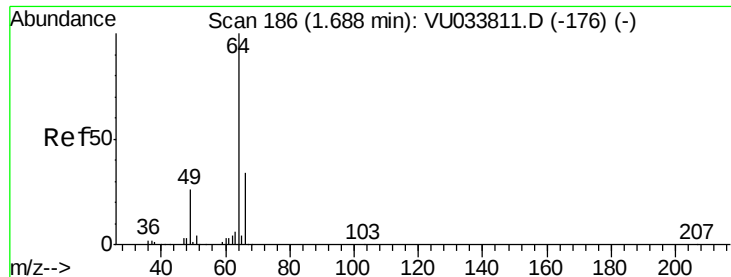
100000

0

1.55 1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 103.431 ug/L

RT: 1.69 min Scan# 185

Delta R.T. -0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

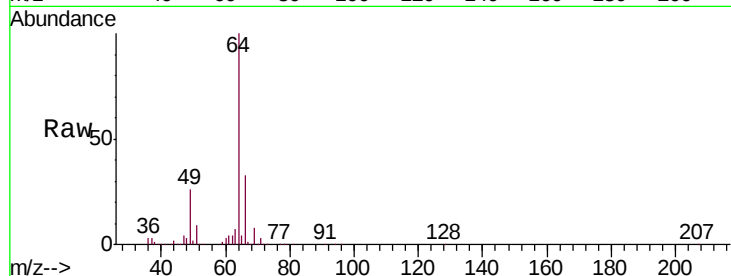
VSTD10031

Tgt Ion: 64 Resp: 286085

Ion Ratio Lower Upper

64 100

66 32.6 23.9 44.3



Abundance Ion 64.00 (63.70 to 64.70): VU033811.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU033811.D (-176) (-)

1.69

250000

200000

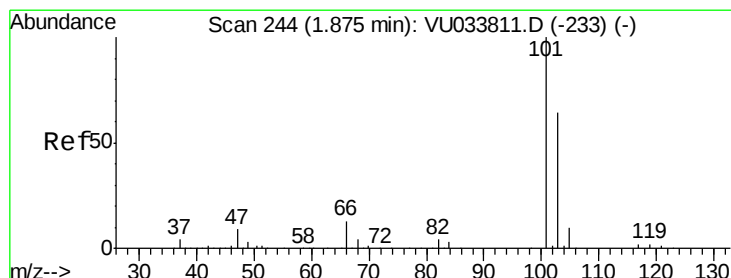
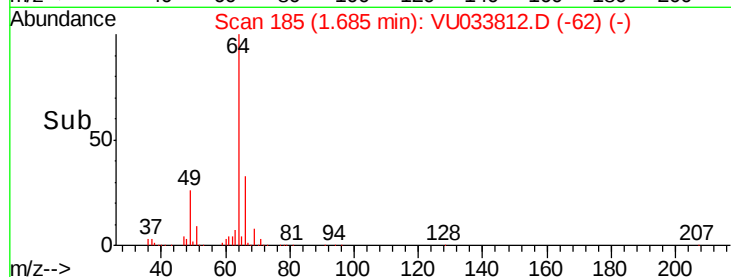
150000

100000

50000

0

Time--> 1.60 1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 119.009 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.00 min

Lab File: VU033812.D

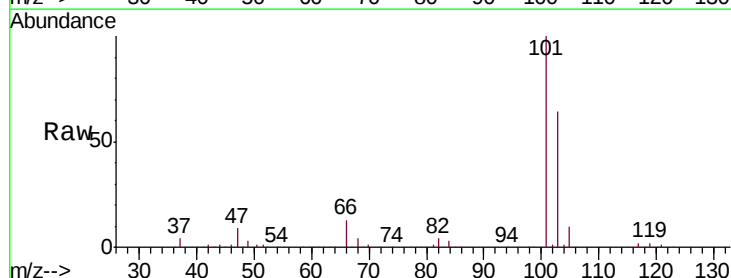
Acq: 15 Aug 2019 15:50

Tgt Ion: 101 Resp: 599741

Ion Ratio Lower Upper

101 100

103 64.6 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VU033811.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033811.D (-233) (-)

1.87

500000

400000

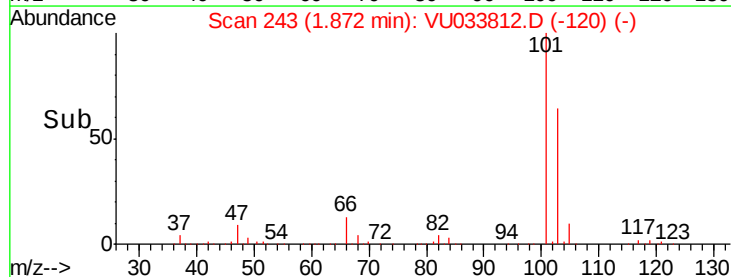
300000

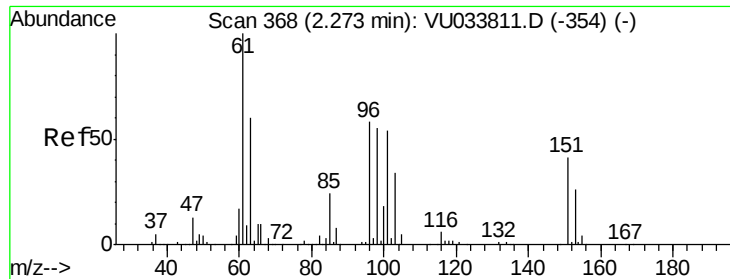
200000

100000

0

Time--> 1.80 1.85 1.90 1.95





#10

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

Concen: 113.240 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD10031

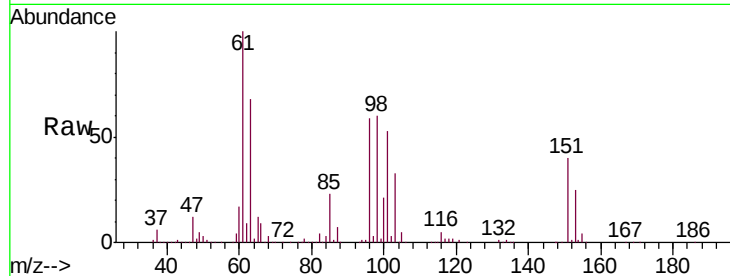
Tgt Ion: 101 Resp: 294681

Ion Ratio Lower Upper

101 100

85 43.7 35.2 52.8

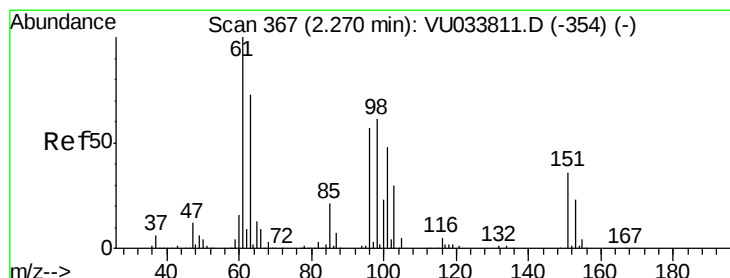
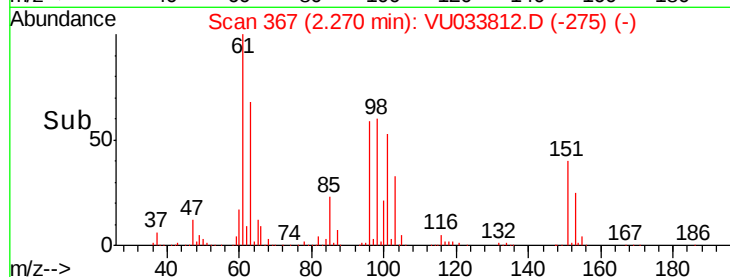
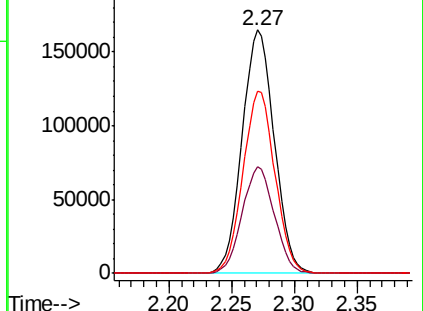
151 74.5 60.4 90.6



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: 111.052 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

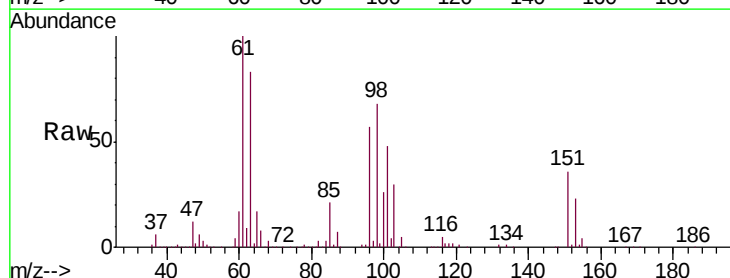
Tgt Ion: 96 Resp: 284043

Ion Ratio Lower Upper

96 100

61 174.6 123.7 229.7

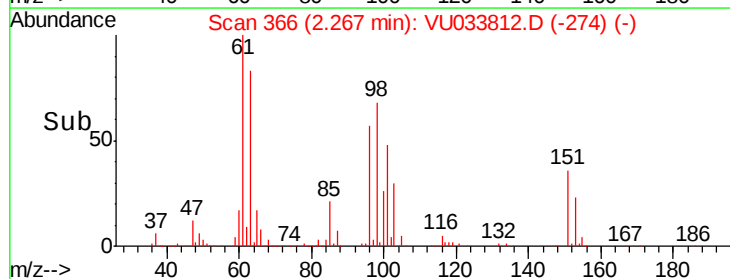
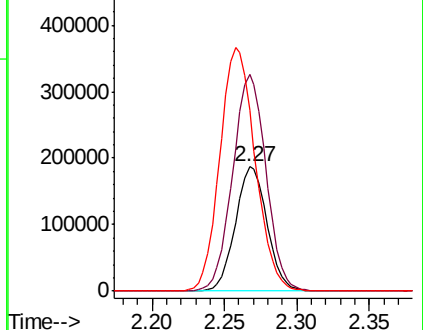
63 145.4 91.2 169.4

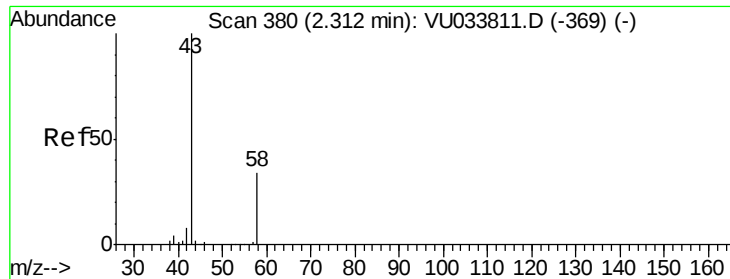


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 192.918 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

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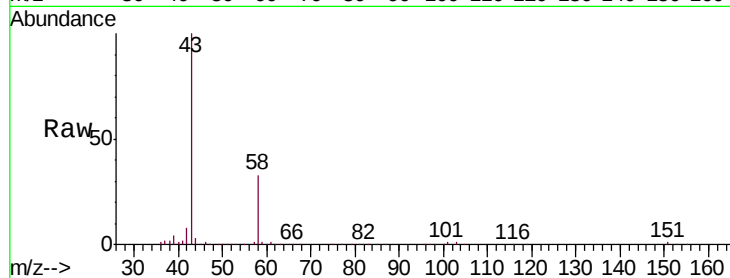
VSTD10031

Tgt Ion: 43 Resp: 374459

Ion Ratio Lower Upper

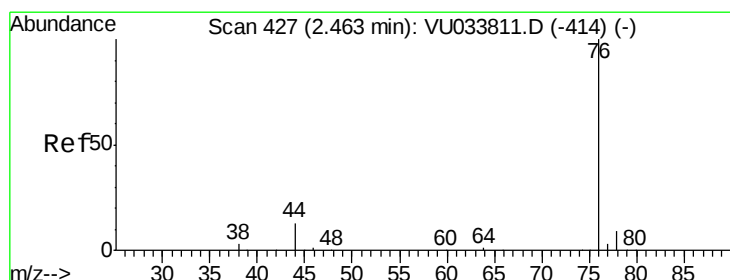
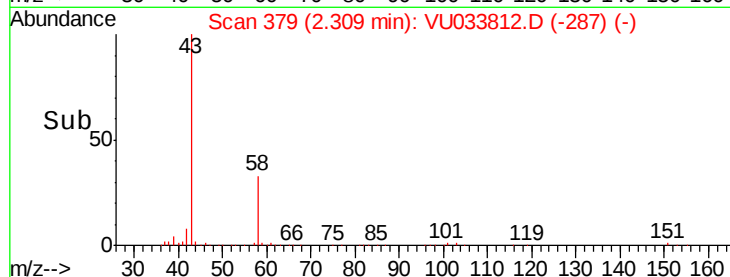
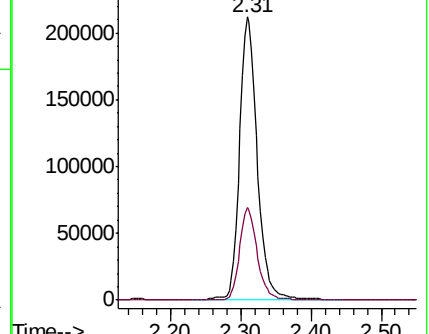
43 100

58 32.2 0.0 69.0



Abundance Ion 43.00 (42.70 to 43.70): VU033812.D (-379) (-)

Ion 58.00 (57.70 to 58.70): VU033812.D (-379) (-)



#14

Carbon disulfide

Concen: 121.859 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033812.D

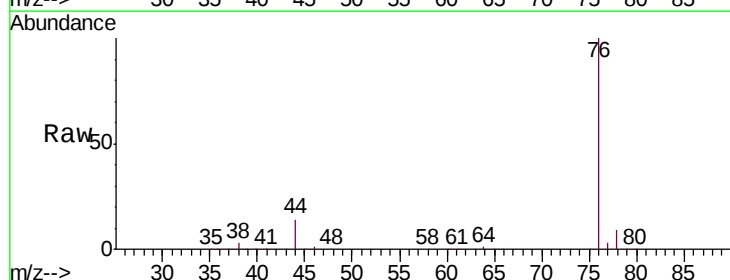
Acq: 15 Aug 2019 15:50

Tgt Ion: 76 Resp: 895225

Ion Ratio Lower Upper

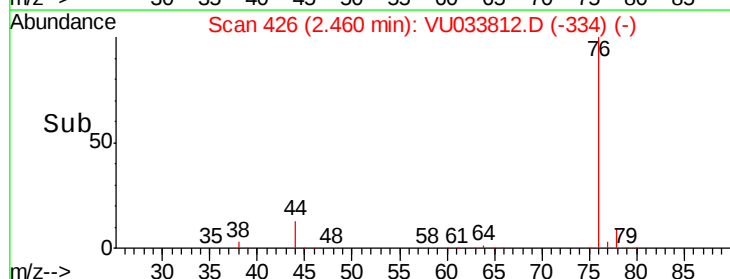
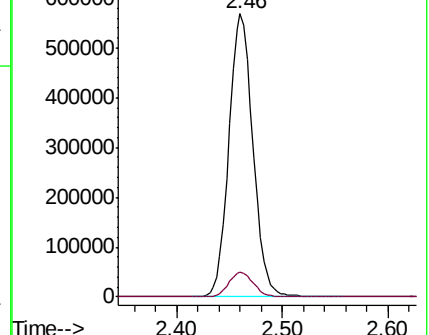
76 100

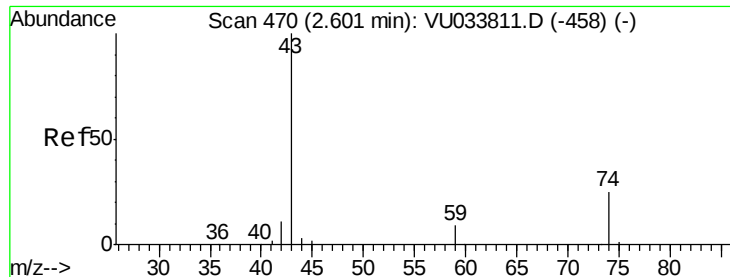
78 8.8 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033812.D (-426) (-)

Ion 78.00 (77.70 to 78.70): VU033812.D (-426) (-)





#15

Methyl Acetate

Concen: 97.775 ug/L

RT: 2.60 min Scan# 469

Delta R.T. -0.00 min

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ClientSampleId :

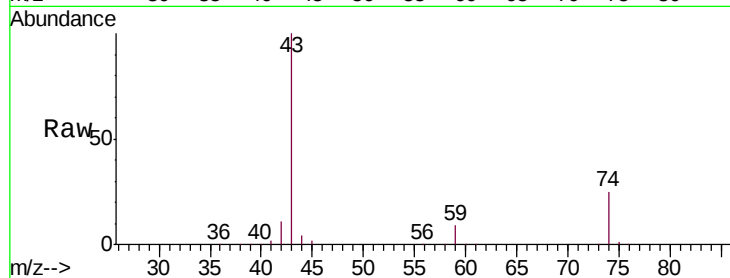
VSTD10031

Tgt Ion: 43 Resp: 315094

Ion Ratio Lower Upper

43 100

74 25.2 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VU033812.D (-469) (-)

Ion 74.00 (73.70 to 74.70): VU033812.D (-469) (-)

2.60

150000

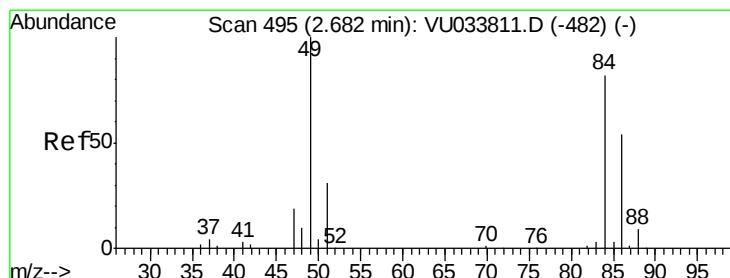
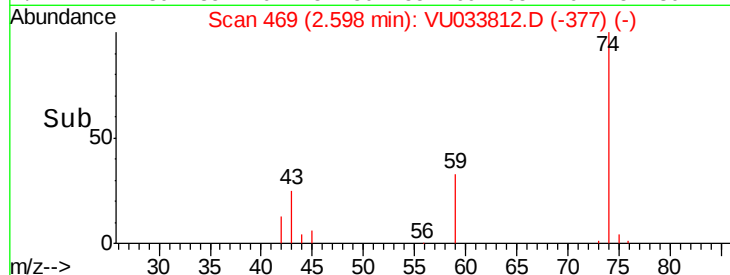
100000

50000

0

Time-->

2.55 2.60 2.65



#16

Methylene chloride

Concen: 110.583 ug/L

RT: 2.68 min Scan# 495

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

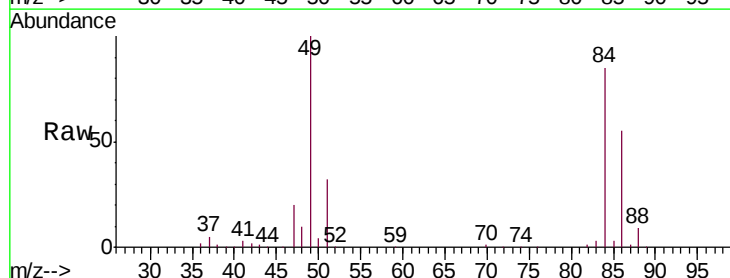
Tgt Ion: 84 Resp: 325604

Ion Ratio Lower Upper

84 100

86 64.3 46.1 85.5

49 117.4 85.6 159.0



Abundance Ion 84.00 (83.70 to 84.70): VU033812.D (-495) (-)

Ion 86.00 (85.70 to 86.70): VU033812.D (-495) (-)

Ion 49.00 (48.70 to 49.70): VU033812.D (-495) (-)

2.68

300000

250000

200000

150000

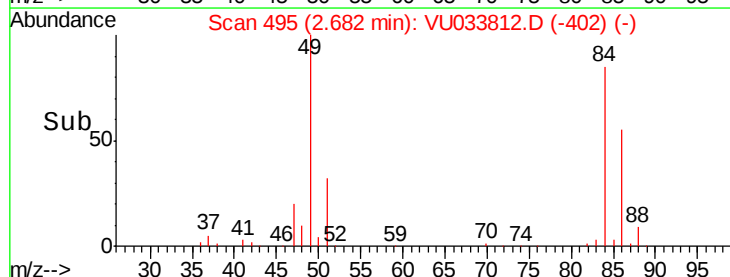
100000

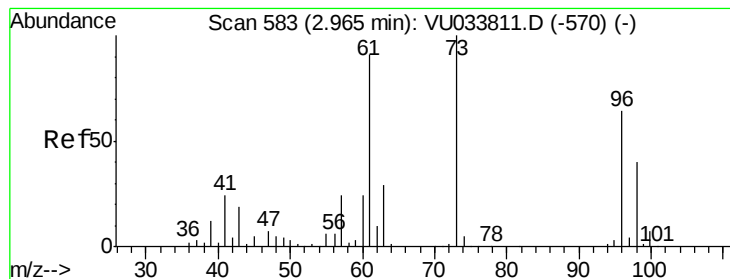
50000

0

Time-->

2.60 2.65 2.70 2.75





#17

trans-1,2-Dichloroethene

Concen: 110.960 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD10031

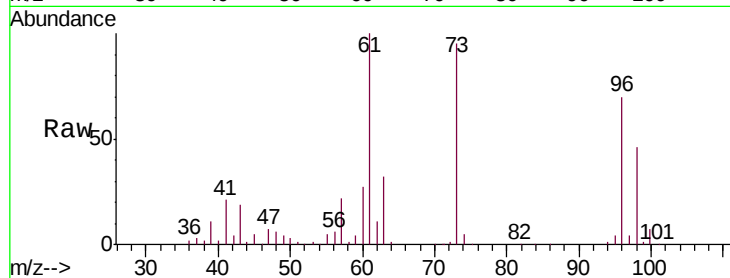
Tgt Ion: 96 Resp: 301266

Ion Ratio Lower Upper

96 100

61 141.9 98.6 183.2

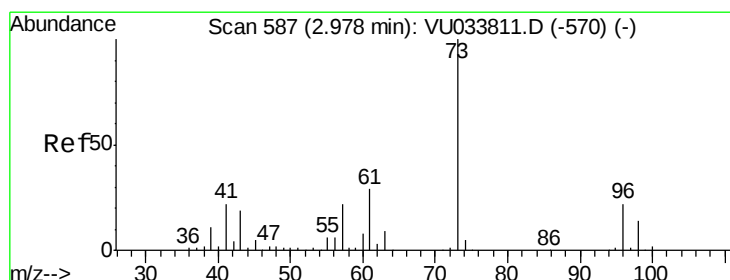
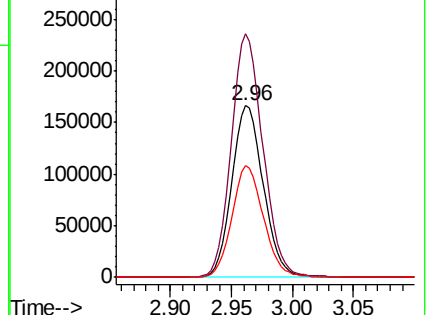
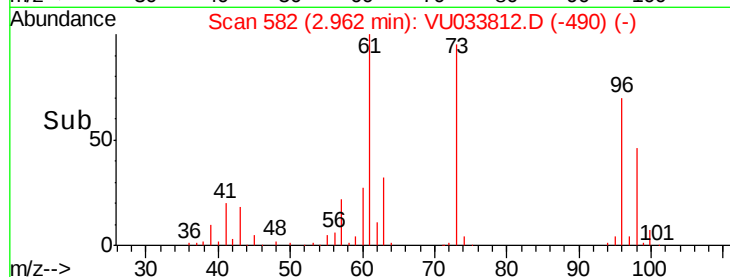
98 65.0 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU033812.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033812.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033812.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 106.613 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

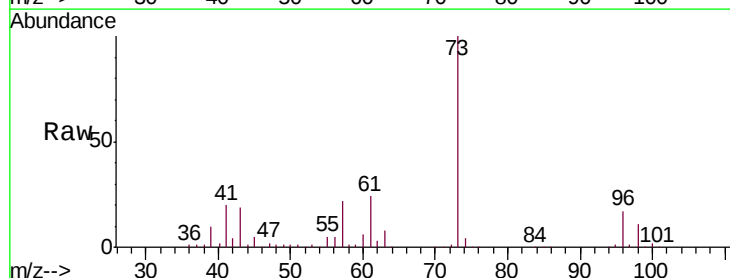
Tgt Ion: 73 Resp: 930168

Ion Ratio Lower Upper

73 100

43 19.2 15.2 22.8

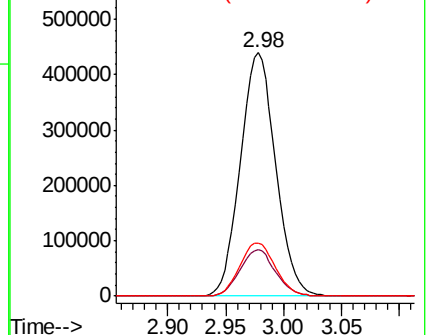
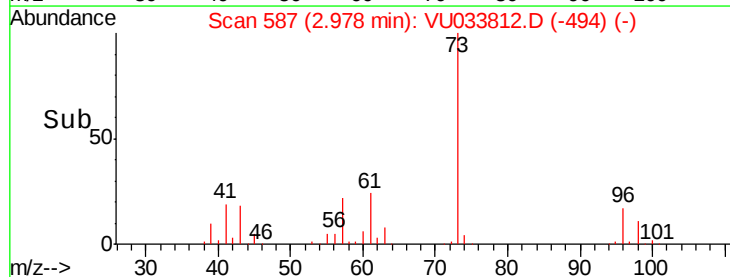
57 22.3 17.8 26.8

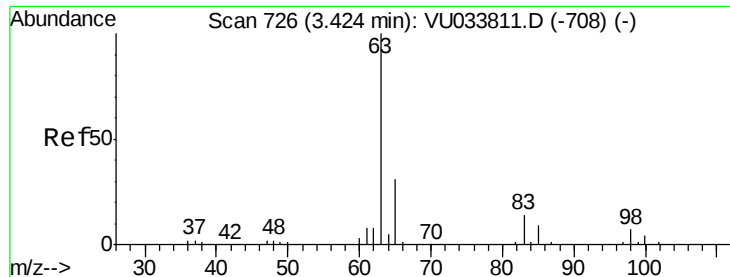


Abundance Ion 73.00 (72.70 to 73.70): VU033812.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033812.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033812.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 110.657 ug/L

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD10031

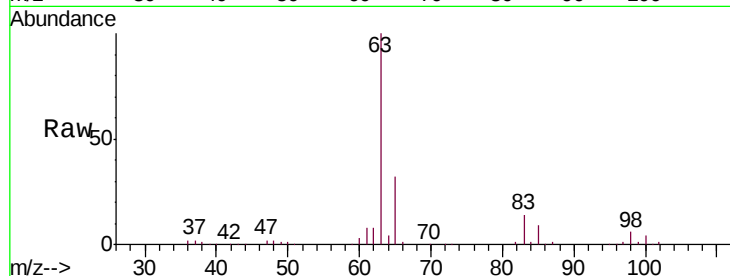
Tgt Ion: 63 Resp: 569887

Ion Ratio Lower Upper

63 100

65 32.2 21.8 40.6

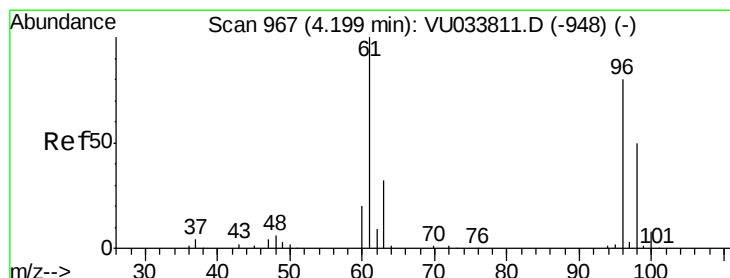
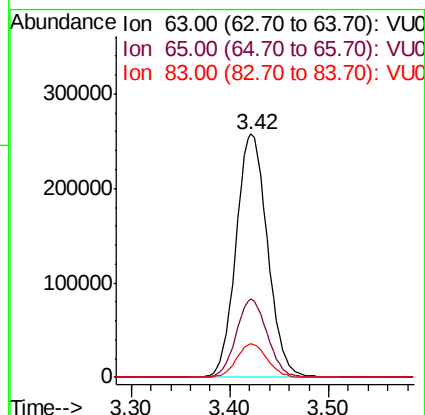
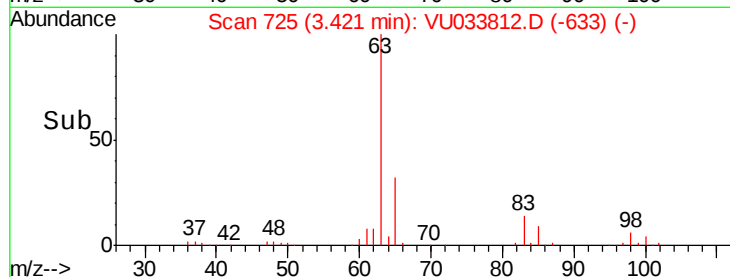
83 13.8 9.9 18.3



Abundance Ion 63.00 (62.70 to 63.70): VU033812.D (-633) (-)

Ion 65.00 (64.70 to 65.70): VU033812.D (-633) (-)

Ion 83.00 (82.70 to 83.70): VU033812.D (-633) (-)



#20

cis-1,2-Dichloroethene

Concen: 110.578 ug/L

RT: 4.20 min Scan# 966

Delta R.T. -0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

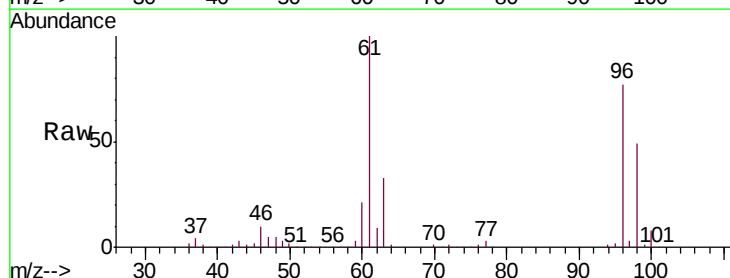
Tgt Ion: 96 Resp: 340630

Ion Ratio Lower Upper

96 100

61 129.2 88.2 163.8

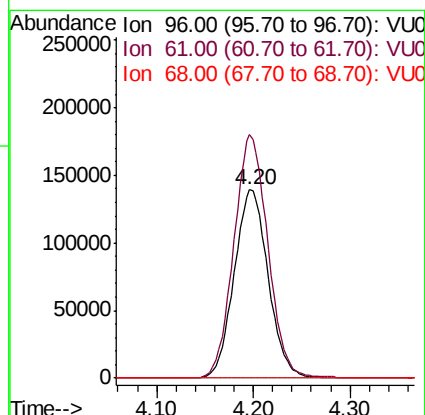
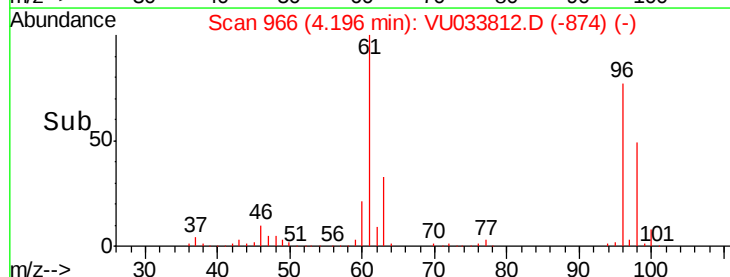
68 0.0 0.0 0.0

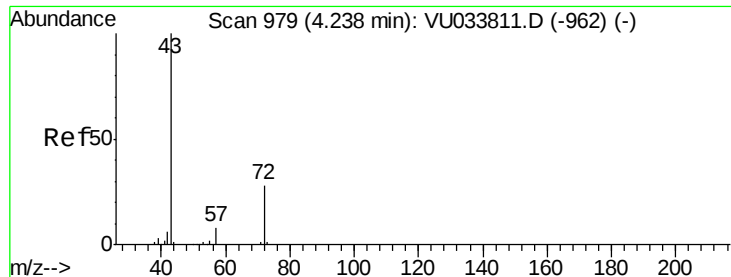


Abundance Ion 96.00 (95.70 to 96.70): VU033812.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033812.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033812.D (-874) (-)





#22

2-Butanone

Concen: 204.775 ug/L

RT: 4.23 min Scan# 978

Delta R.T. -0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

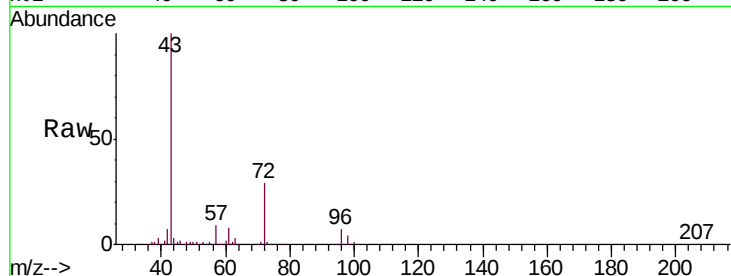
VSTD10031

Tgt Ion: 43 Resp: 488146

Ion Ratio Lower Upper

43 100

72 29.0 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033811.D (-962) (-)

Ion 72.00 (71.70 to 72.70): VU033811.D (-962) (-)

4.23

200000

150000

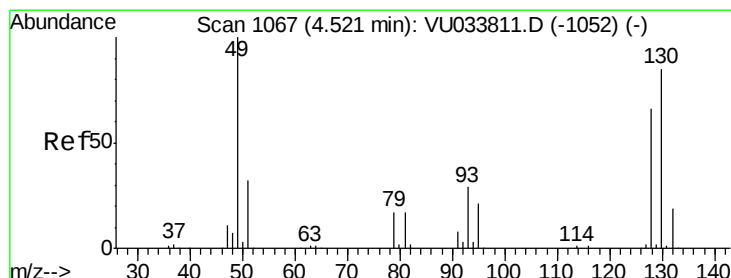
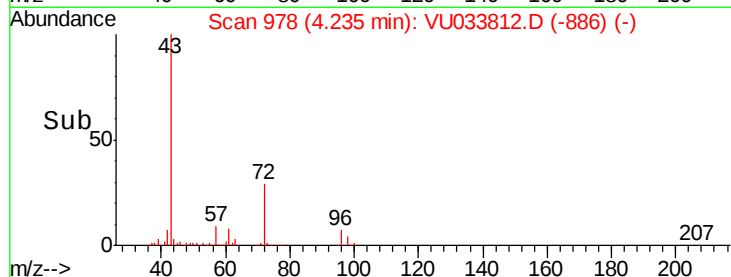
100000

50000

0

4.10 4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 111.627 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Tgt Ion: 128 Resp: 178009

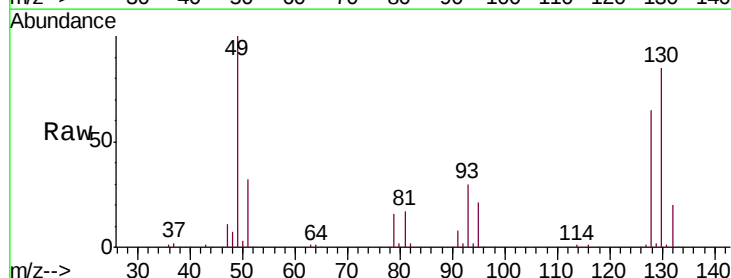
Ion Ratio Lower Upper

128 100

49 153.4 106.7 198.3

130 130.4 90.4 168.0

51 48.7 38.4 57.6



Abundance Ion 128.00 (127.70 to 128.70): VU033811.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU033811.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU033811.D (-1052) (-)

Ion 51.00 (50.70 to 51.70): VU033811.D (-1052) (-)

150000

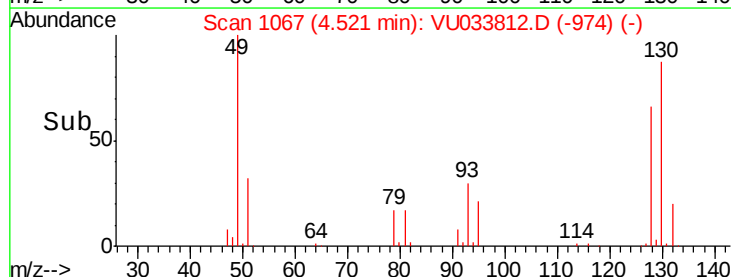
100000

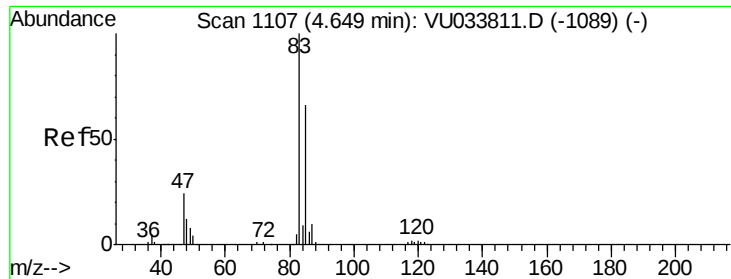
50000

0

4.40 4.50 4.60 4.70

Time-->

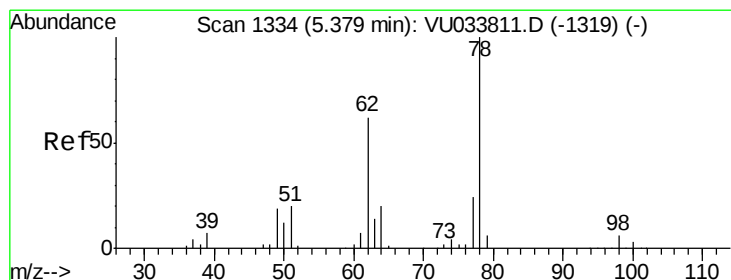
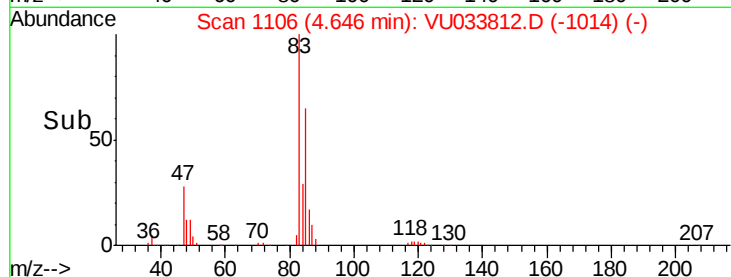
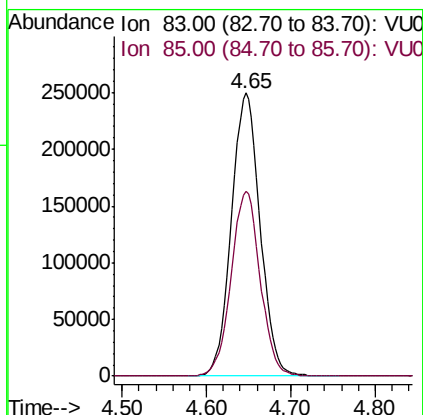
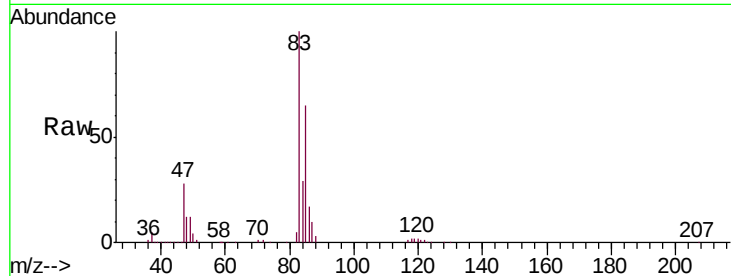




#25
Chloroform
Concen: 110.039 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033812.D
Acq: 15 Aug 2019 15:50

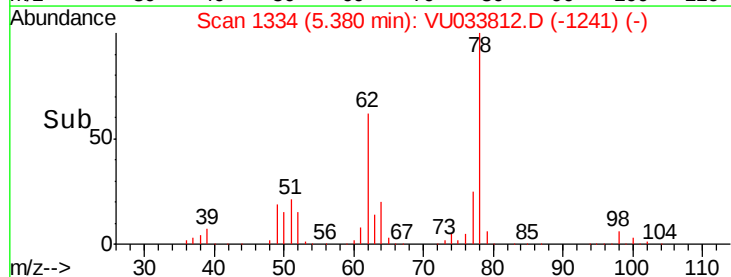
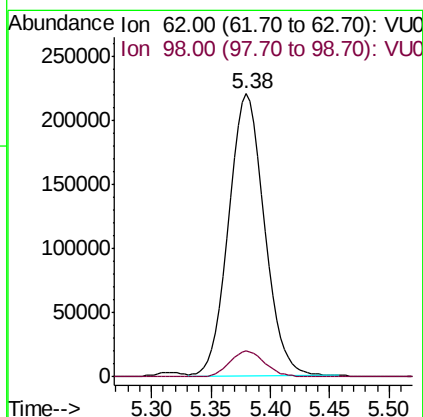
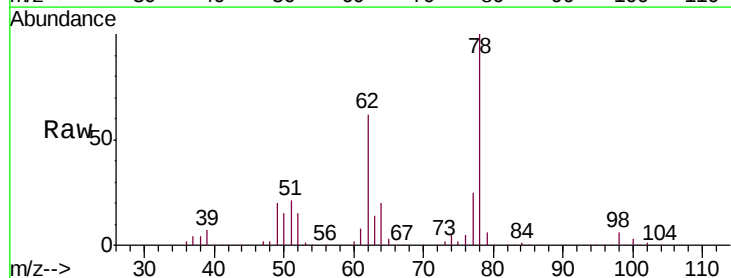
Instrument :
MSVOA_U
ClientSampled :
VSTD10031

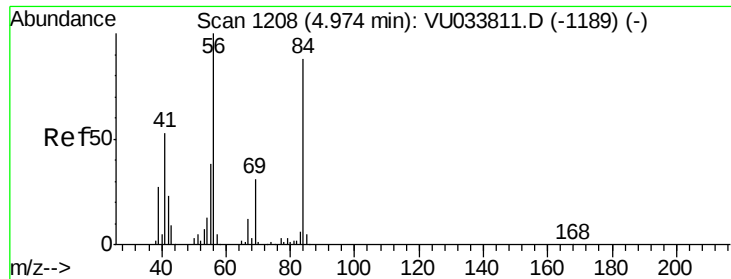
Tgt Ion: 83 Resp: 590480
Ion Ratio Lower Upper
83 100
85 65.2 46.3 86.1



#27
1,2-Dichloroethane
Concen: 112.430 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033812.D
Acq: 15 Aug 2019 15:50

Tgt Ion: 62 Resp: 460312
Ion Ratio Lower Upper
62 100
98 9.1 7.0 10.6

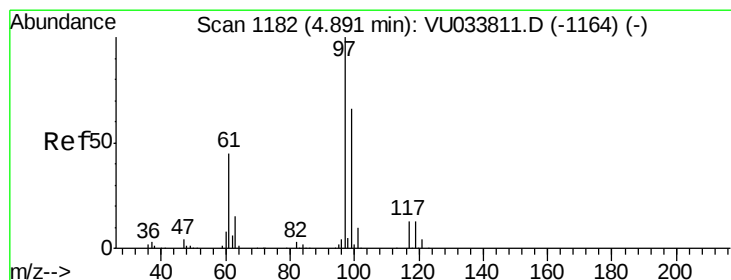
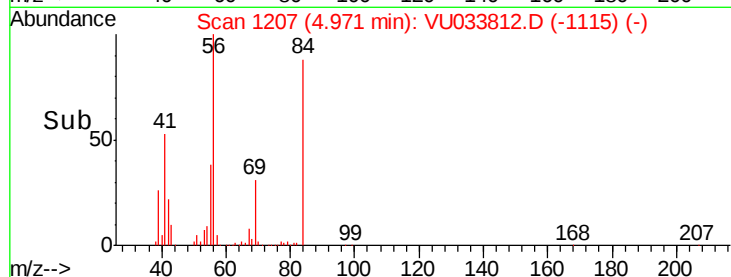
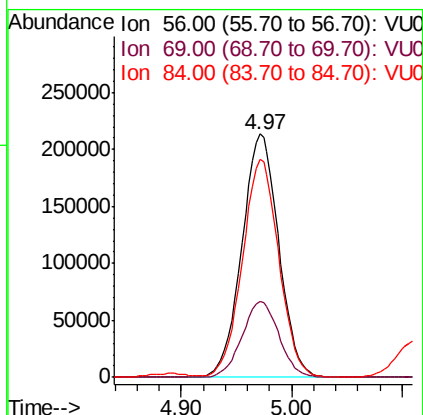
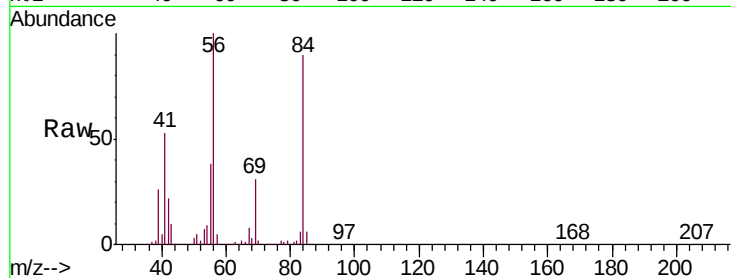




#29
Cyclohexane
Concen: 111.081 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033812.D
Acq: 15 Aug 2019 15:50

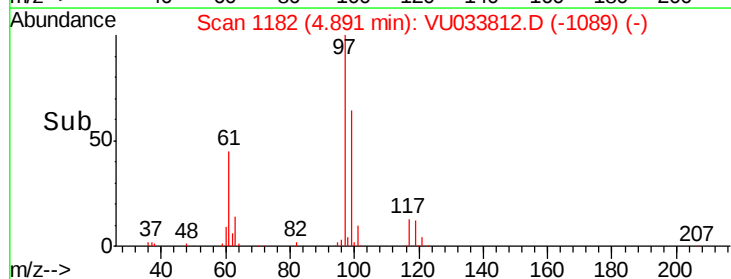
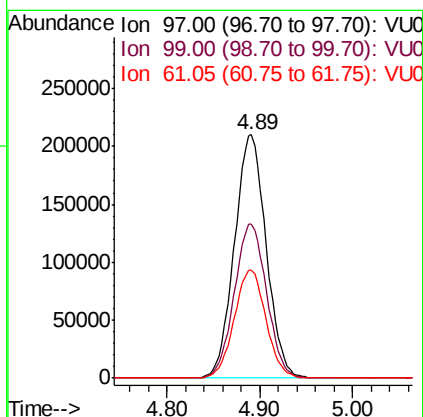
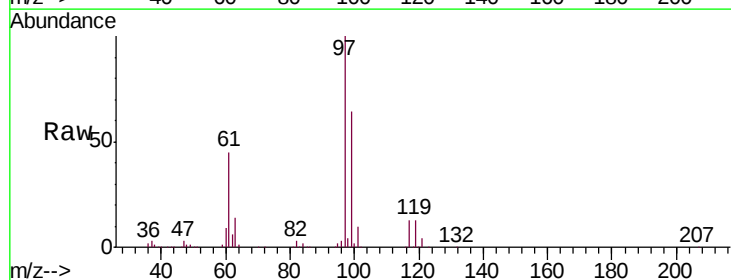
Instrument :
MSVOA_U
ClientSampleId :
VSTD10031

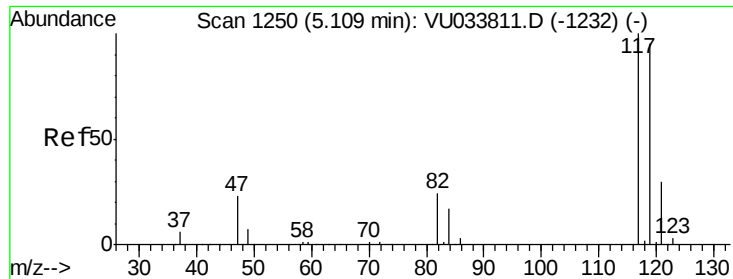
Tgt Ion: 56 Resp: 493431
Ion Ratio Lower Upper
56 100
69 31.4 24.4 36.6
84 88.6 69.0 103.4



#30
1,1,1-Trichloroethane
Concen: 108.322 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033812.D
Acq: 15 Aug 2019 15:50

Tgt Ion: 97 Resp: 498464
Ion Ratio Lower Upper
97 100
99 64.6 51.8 77.8
61 44.5 35.8 53.6





#31

Carbon tetrachloride

Concen: 110.320 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

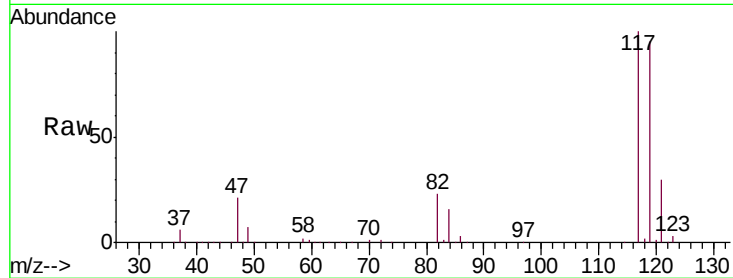
VSTD10031

Tgt Ion:117 Resp: 457816

Ion Ratio Lower Upper

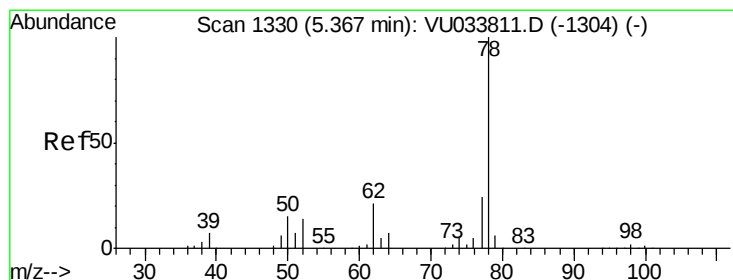
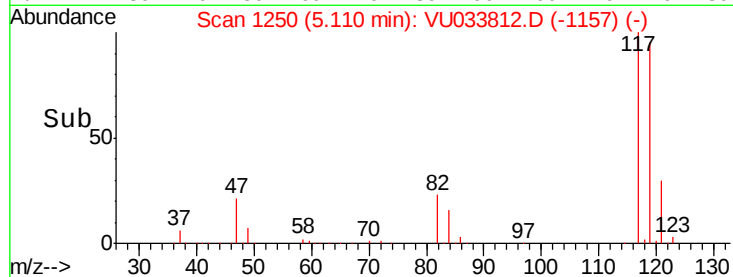
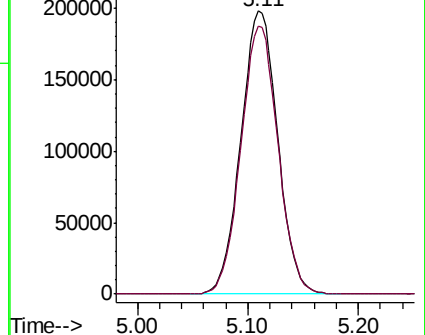
117 100

119 95.3 77.0 115.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 109.259 ug/L

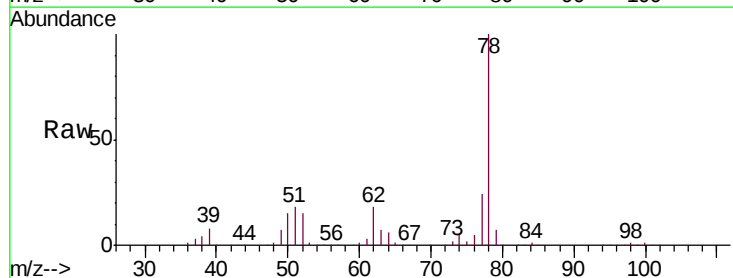
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

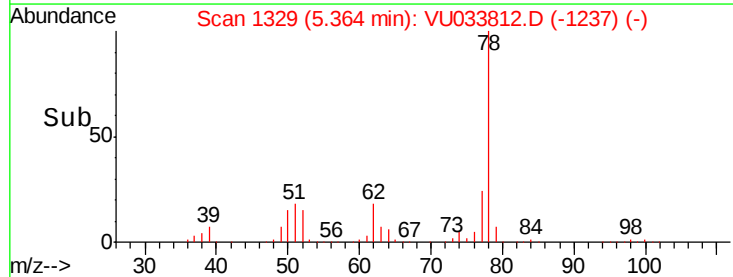
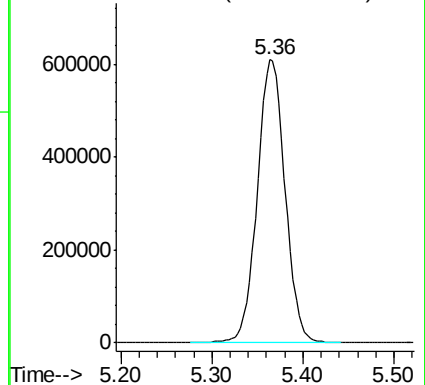
Lab File: VU033812.D

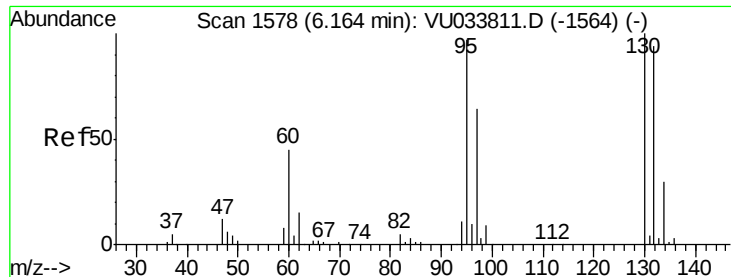
Acq: 15 Aug 2019 15:50

Tgt Ion: 78 Resp: 1294142



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 108.620 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD10031

Tgt Ion: 95 Resp: 338942

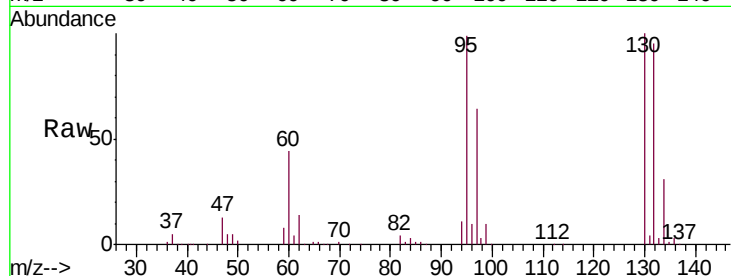
Ion Ratio Lower Upper

95 100

97 65.1 46.3 86.1

132 96.5 67.9 126.1

130 101.3 72.0 133.6

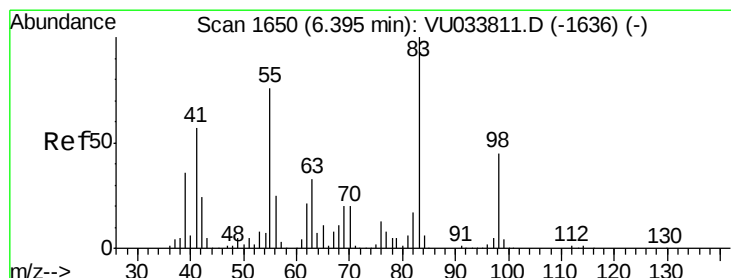
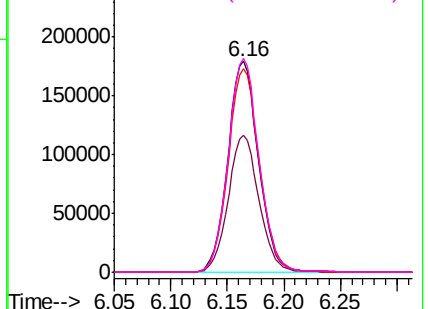
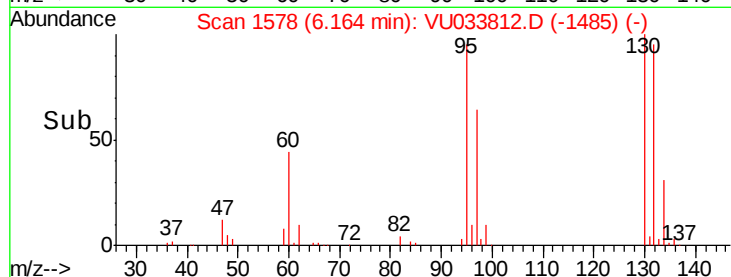


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 113.796 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

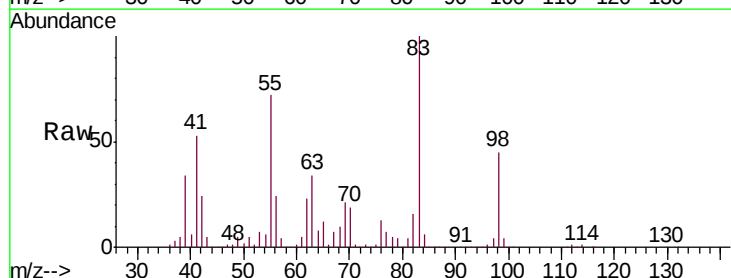
Tgt Ion: 83 Resp: 537169

Ion Ratio Lower Upper

83 100

55 74.2 61.6 92.4

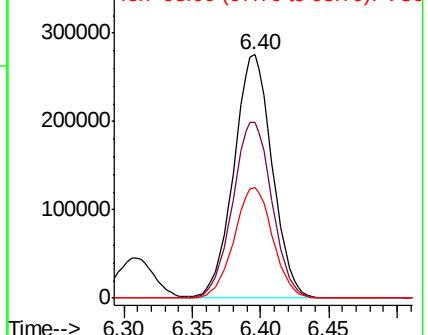
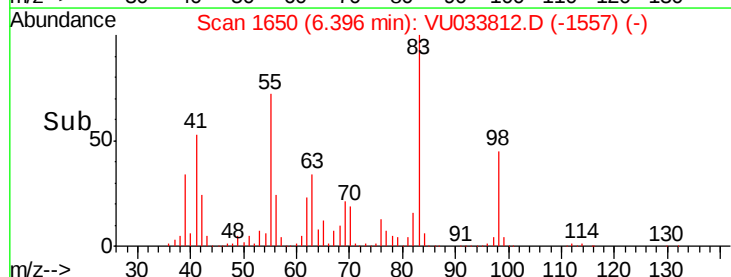
98 45.8 37.2 55.8

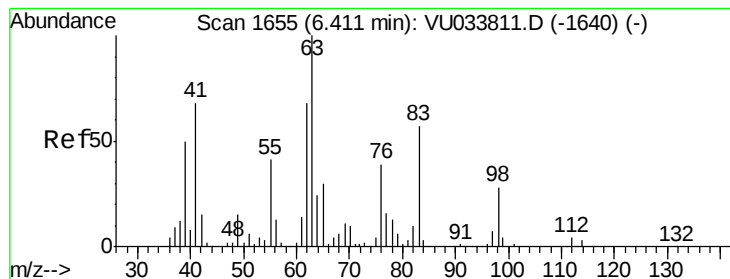


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 109.944 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

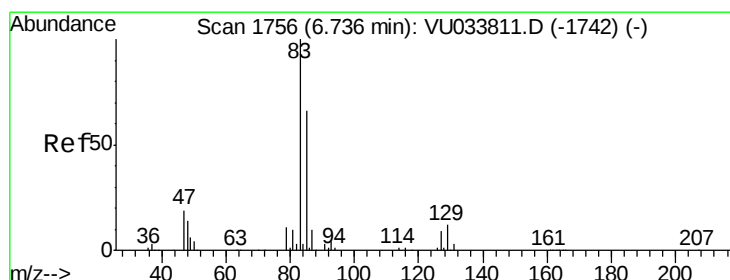
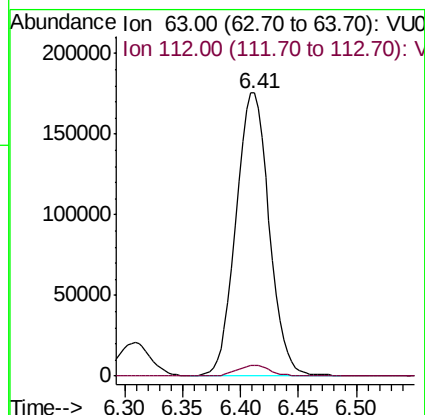
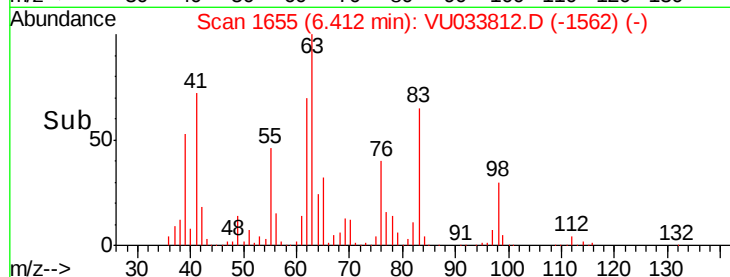
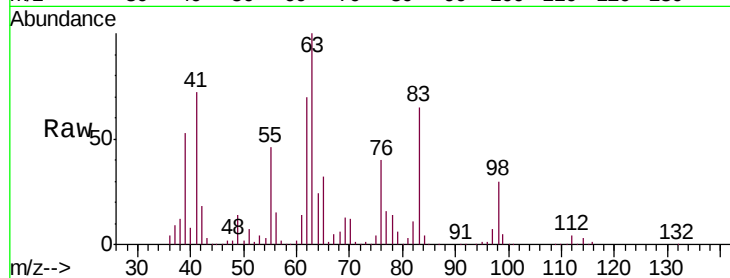
VSTD10031

Tgt Ion: 63 Resp: 347486

Ion Ratio Lower Upper

63 100

112 3.9 3.2 4.8



#38

Bromodichloromethane

Concen: 109.827 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

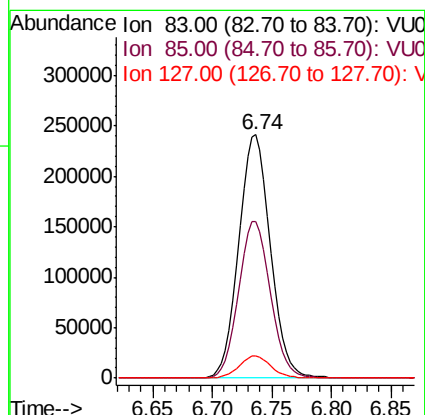
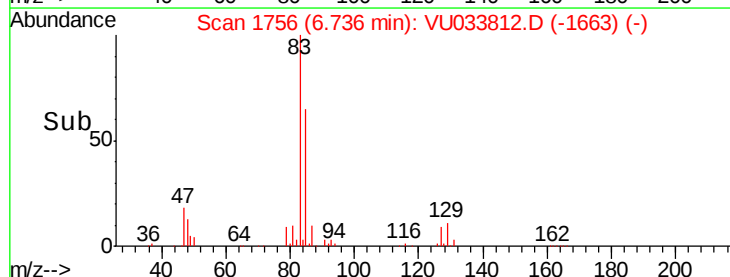
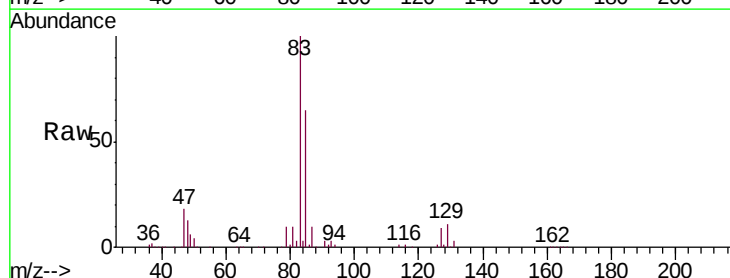
Tgt Ion: 83 Resp: 445333

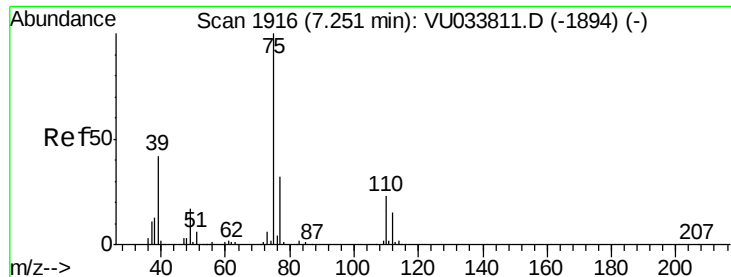
Ion Ratio Lower Upper

83 100

85 64.6 45.9 85.3

127 9.2 7.3 10.9



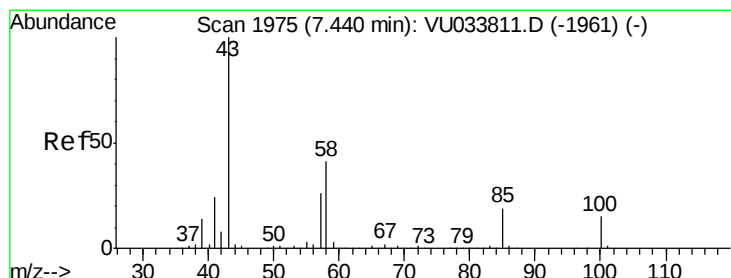
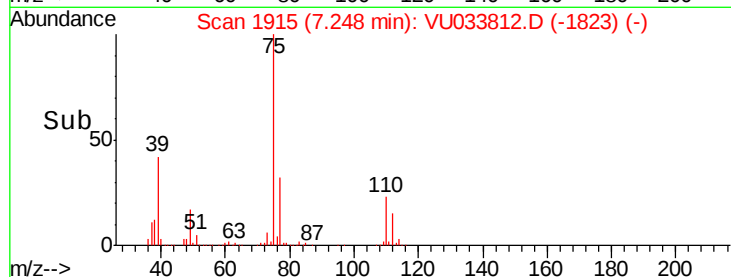
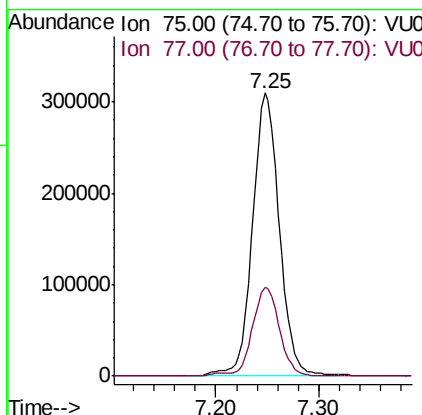
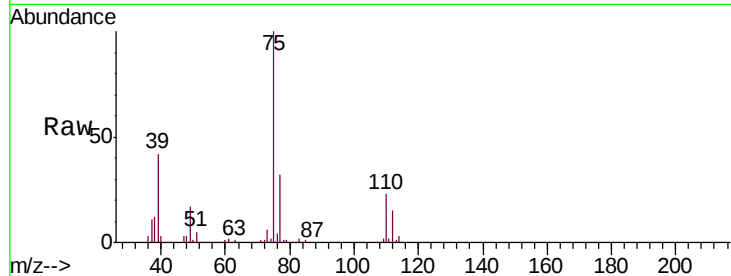


#39

cis-1,3-Dichloropropene
 Concen: 112.024 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU033812.D
 Acq: 15 Aug 2019 15:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10031

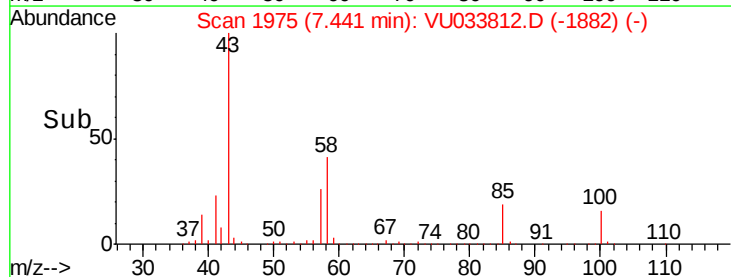
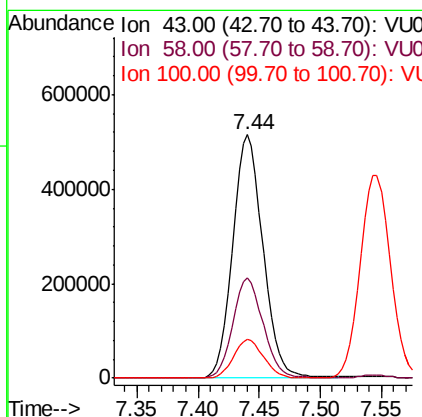
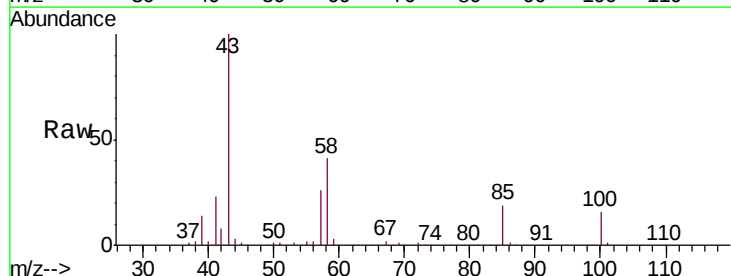
Tgt Ion: 75 Resp: 557211
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.5 41.7

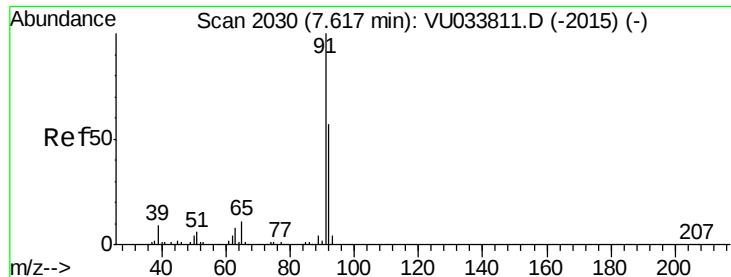


#40

4-Methyl-2-pentanone
 Concen: 196.309 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033812.D
 Acq: 15 Aug 2019 15:50

Tgt Ion: 43 Resp: 887381
 Ion Ratio Lower Upper
 43 100
 58 41.0 32.6 49.0
 100 15.8 12.4 18.6





#42

Toluene

Concen: 111.354 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

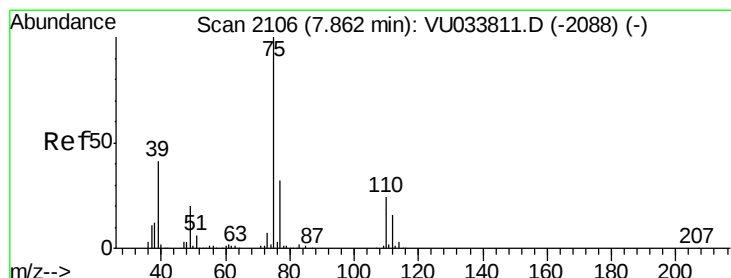
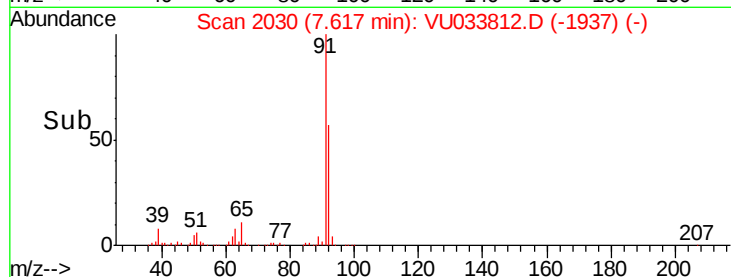
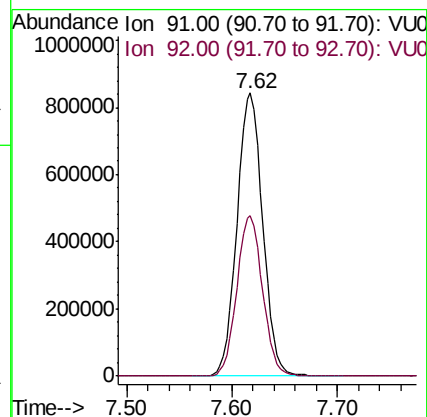
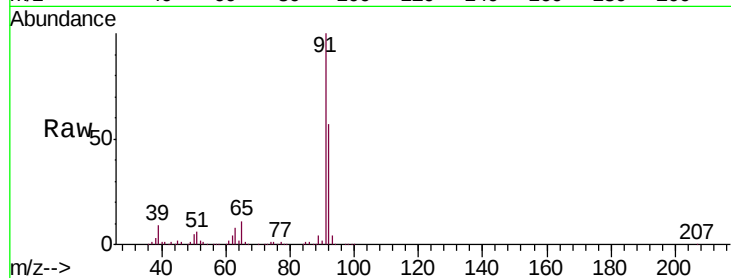
VSTD10031

Tgt Ion: 91 Resp: 1421543

Ion Ratio Lower Upper

91 100

92 56.7 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 112.865 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VU033812.D

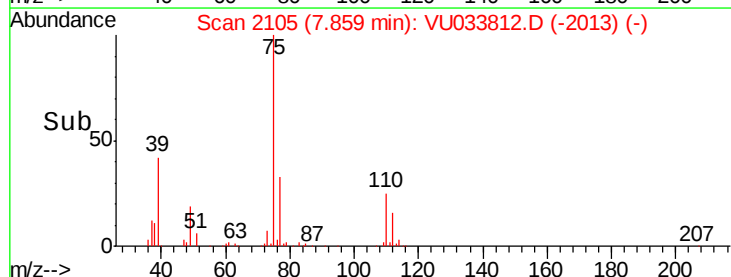
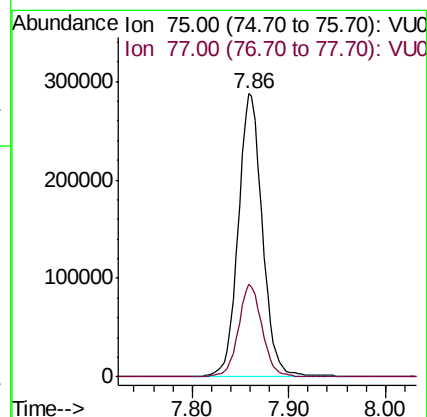
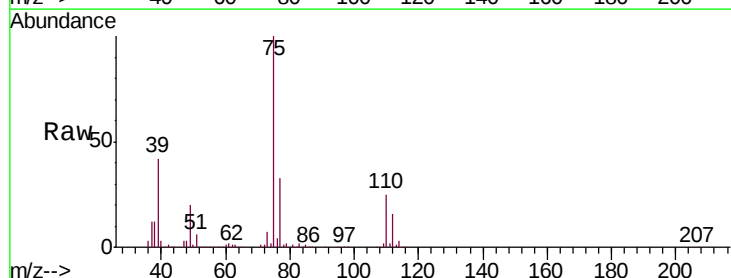
Acq: 15 Aug 2019 15:50

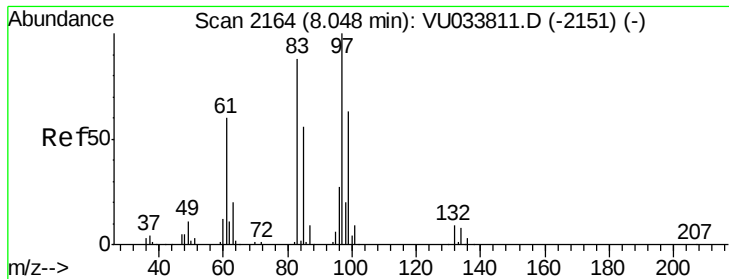
Tgt Ion: 75 Resp: 499110

Ion Ratio Lower Upper

75 100

77 32.6 22.5 41.9





#45

1,1,2-Trichloroethane

Concen: 106.140 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD10031

Tgt Ion: 97 Resp: 324815

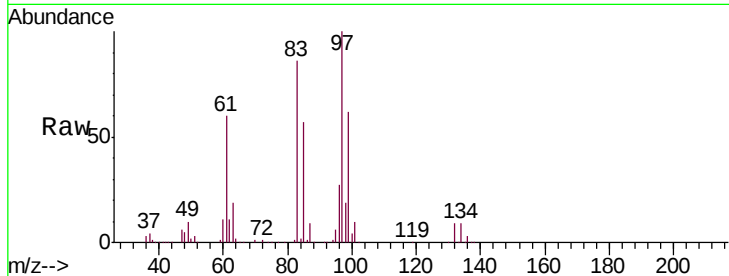
Ion Ratio Lower Upper

97 100

99 61.6 43.9 81.5

83 85.6 61.7 114.5

85 56.6 39.2 72.8

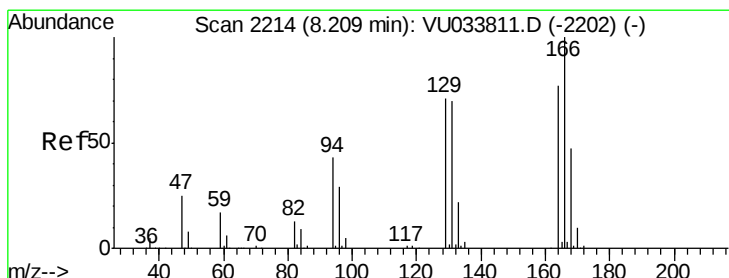
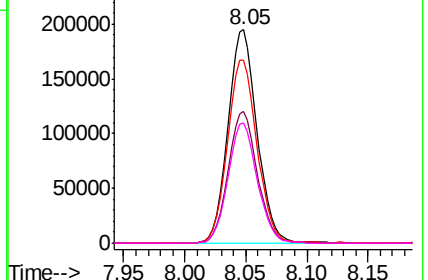
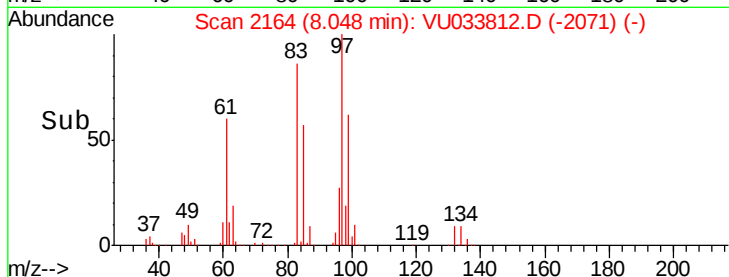


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 107.451 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Tgt Ion: 164 Resp: 273715

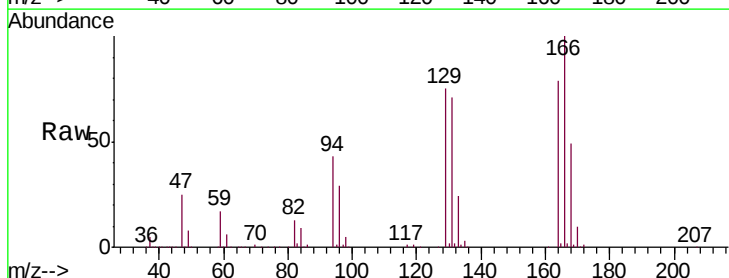
Ion Ratio Lower Upper

164 100

129 95.4 64.4 119.6

131 90.2 63.8 118.4

166 127.3 90.9 168.7

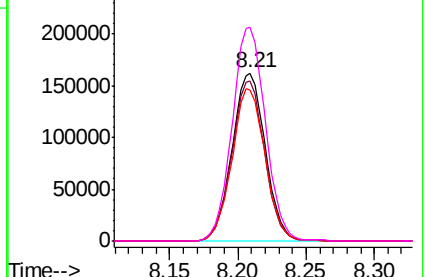
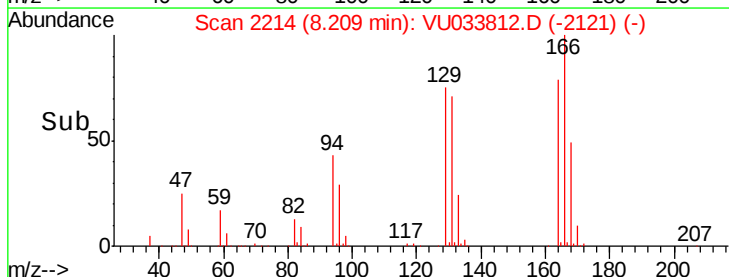


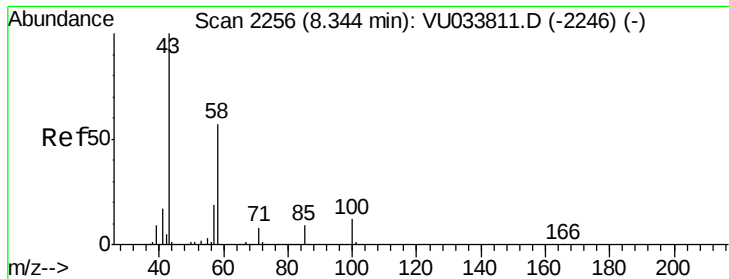
Abundance Ion 164.00 (163.70 to 164.70): V

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

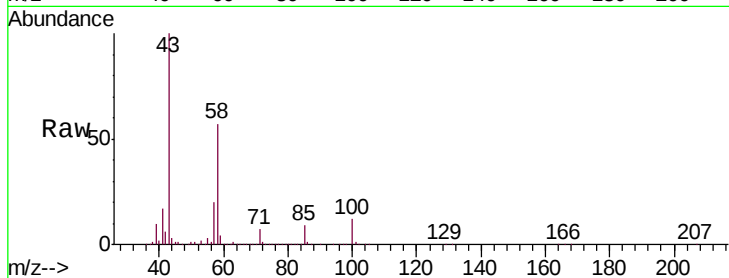




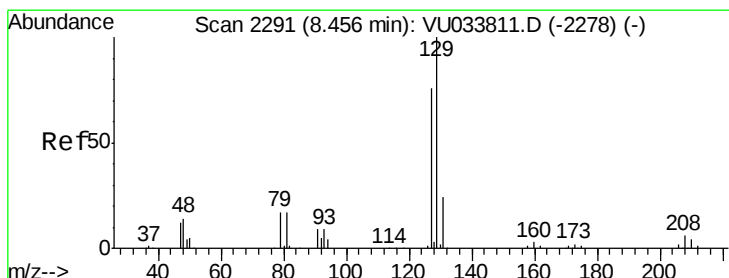
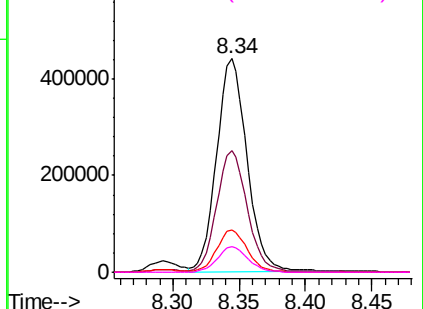
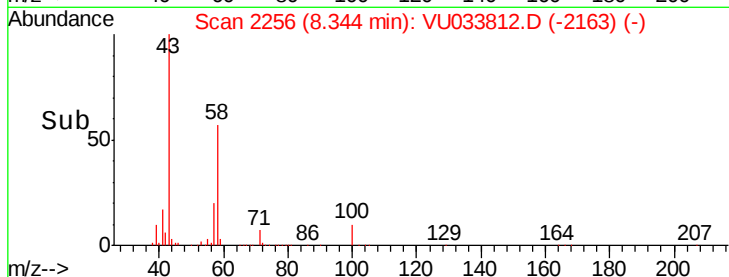
#48
2-Hexanone
Concen: 196.476 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033812.D
Acq: 15 Aug 2019 15:50

Instrument :
MSVOA_U
ClientSampleId :
VSTD10031

Tgt Ion:	43	Resp:	701811
Ion	Ratio	Lower	Upper
43	100		
58	57.0	45.0	67.4
57	20.0	15.4	23.0
100	12.1	9.6	14.4

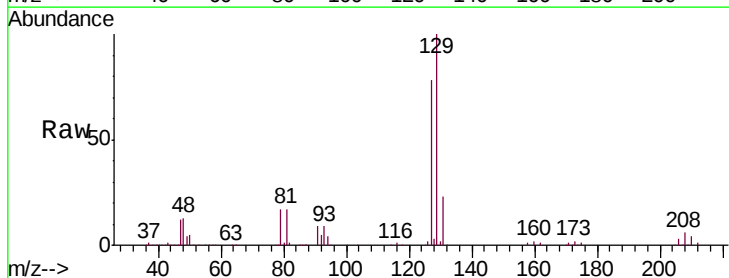


Abundance Ion 43.00 (42.70 to 43.70): VU033811.D (-2246) (-)
Ion 58.00 (57.70 to 58.70): VU033811.D (-2246) (-)
Ion 57.00 (56.70 to 57.70): VU033811.D (-2246) (-)
Ion 100.00 (99.70 to 100.70): VU033811.D (-2246) (-)

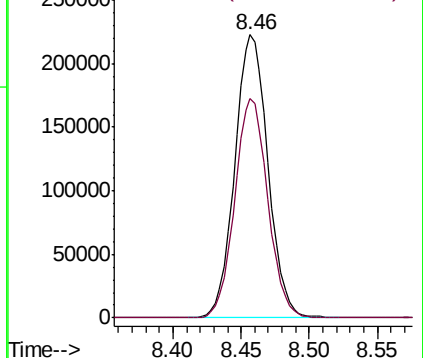
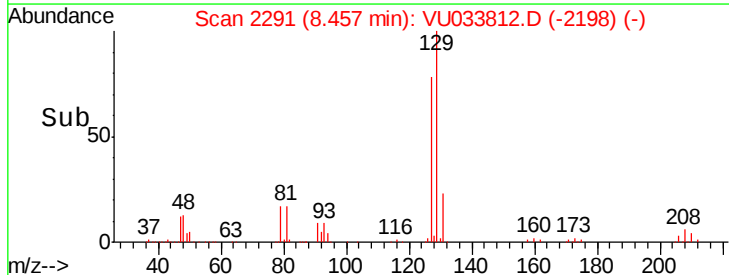


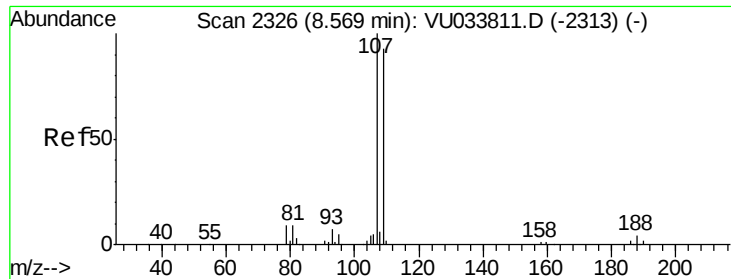
#49
Dibromochloromethane
Concen: 109.131 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU033812.D
Acq: 15 Aug 2019 15:50

Tgt Ion:	129	Resp:	375664
Ion	Ratio	Lower	Upper
129	100		
127	77.7	53.4	99.2



Abundance Ion 129.00 (128.70 to 129.70): VU033811.D (-2278) (-)
Ion 127.00 (126.70 to 127.70): VU033811.D (-2278) (-)

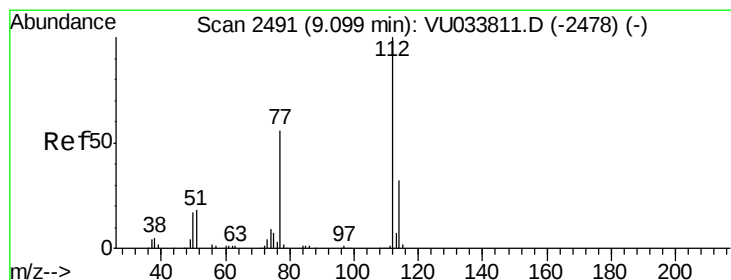
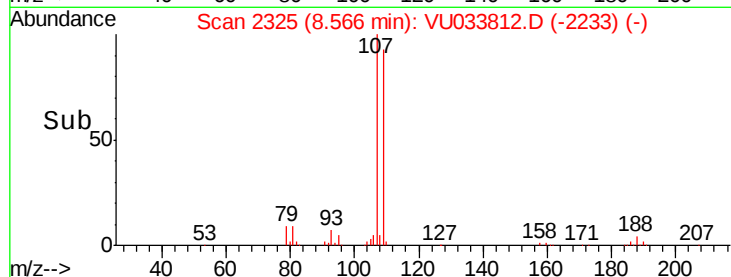
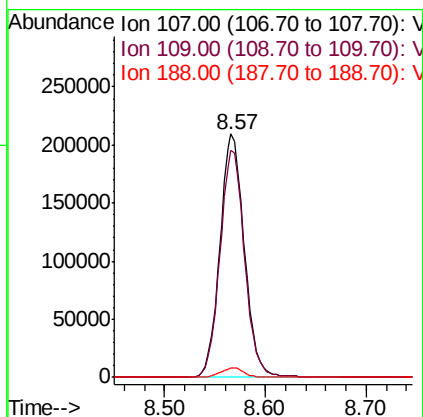
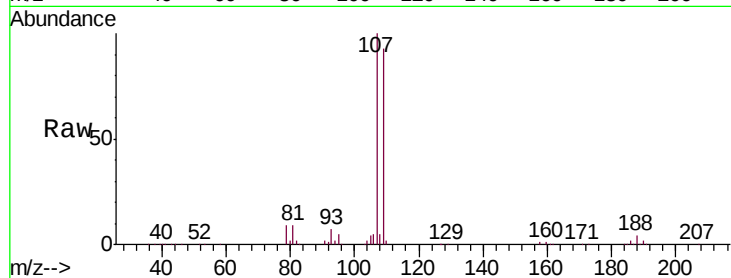




#50
1,2-Dibromoethane
Concen: 105.394 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU033812.D
Acq: 15 Aug 2019 15:50

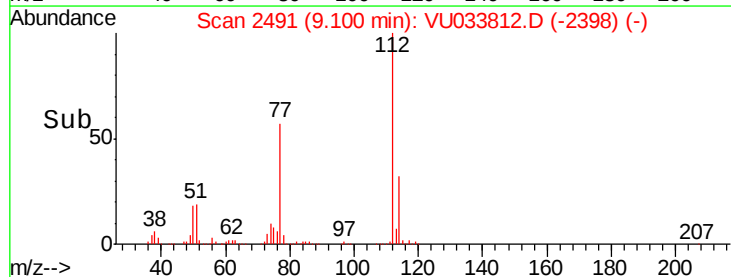
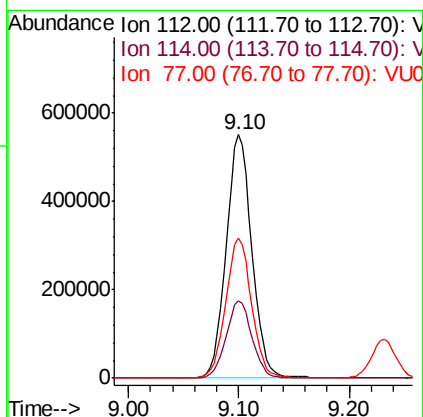
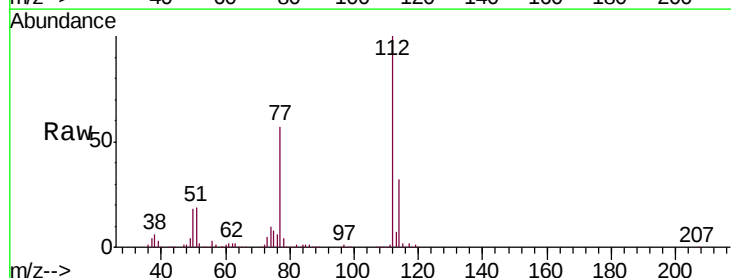
Instrument :
MSVOA_U
ClientSampleId :
VSTD10031

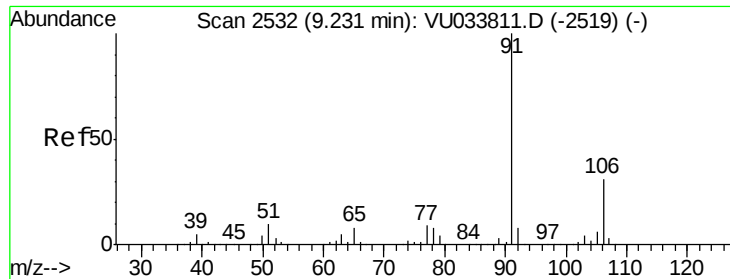
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.0	64.8	120.3
188	3.8	3.1	4.7



#51
Chlorobenzene
Concen: 106.661 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU033812.D
Acq: 15 Aug 2019 15:50

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.5	41.9
77	57.4	45.4	68.0





#52

Ethylbenzene

Concen: 110.970 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

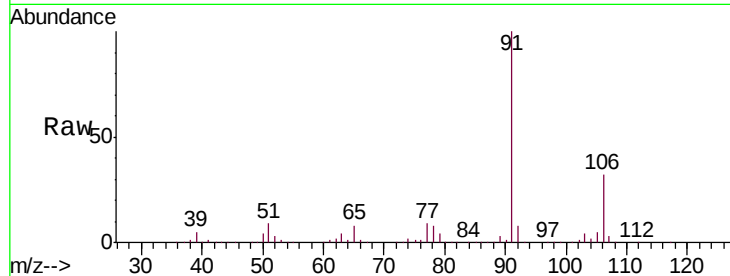
VSTD10031

Tgt Ion: 91 Resp: 1540002

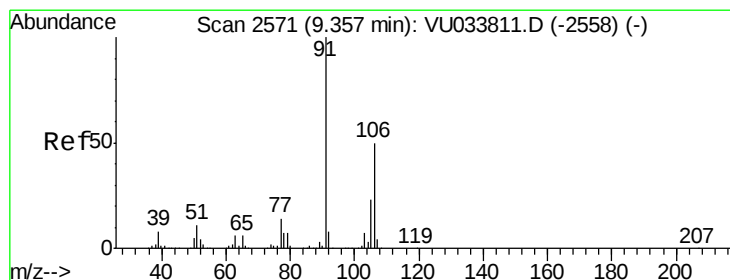
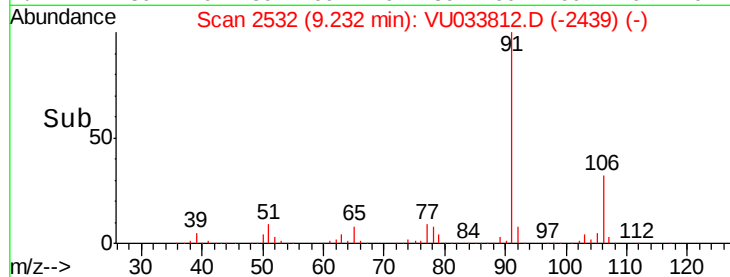
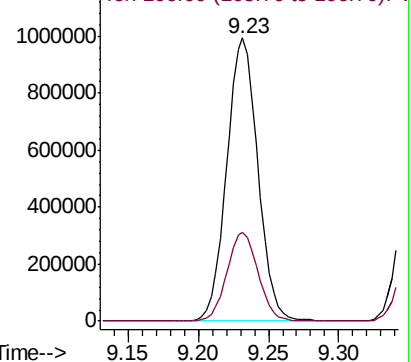
Ion Ratio Lower Upper

91 100

106 31.5 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VU033812.D (-2439) (-)



#53

m,p-Xylene

Concen: 110.993 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033812.D

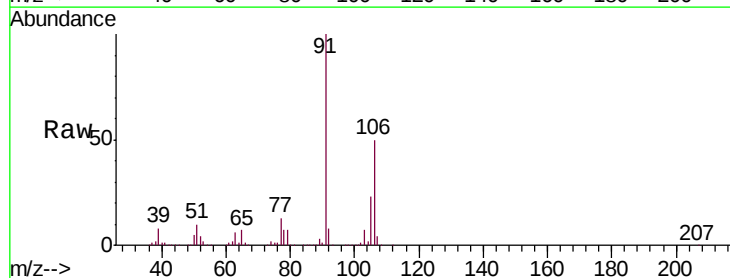
Acq: 15 Aug 2019 15:50

Tgt Ion: 106 Resp: 587263

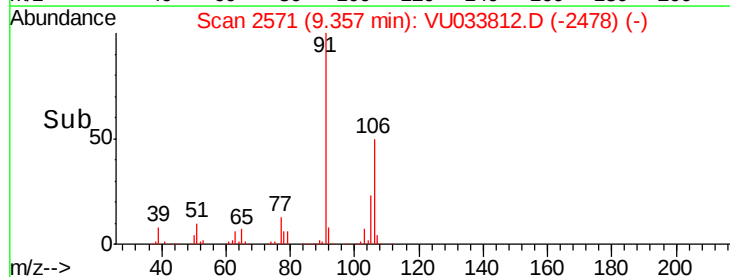
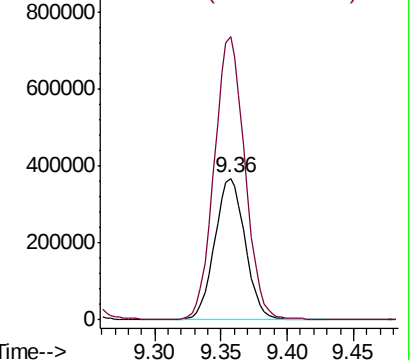
Ion Ratio Lower Upper

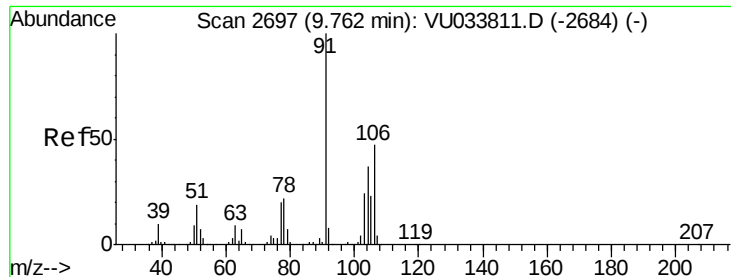
106 100

91 199.6 140.9 261.7



Abundance Ion 106.00 (105.70 to 106.70): VU033812.D (-2478) (-)





#54

o-xylene

Concen: 110.620 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

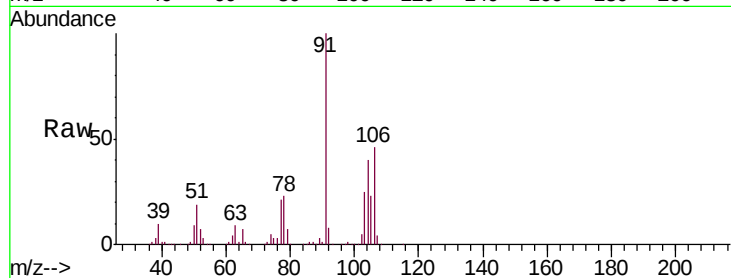
VSTD10031

Tgt Ion:106 Resp: 577780

Ion Ratio Lower Upper

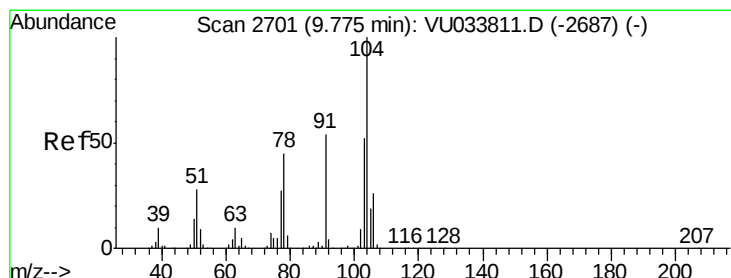
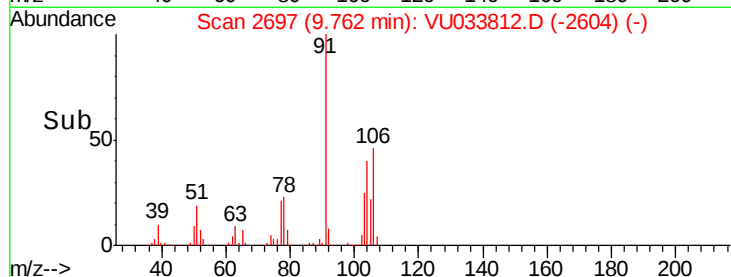
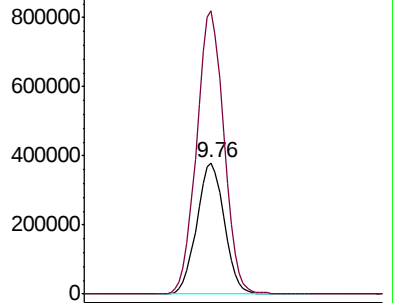
106 100

91 215.4 147.8 274.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 114.473 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033812.D

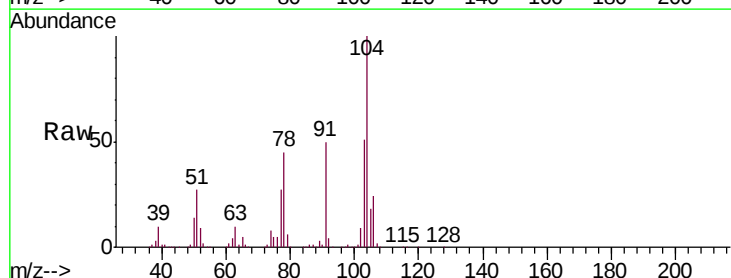
Acq: 15 Aug 2019 15:50

Tgt Ion:104 Resp: 1008115

Ion Ratio Lower Upper

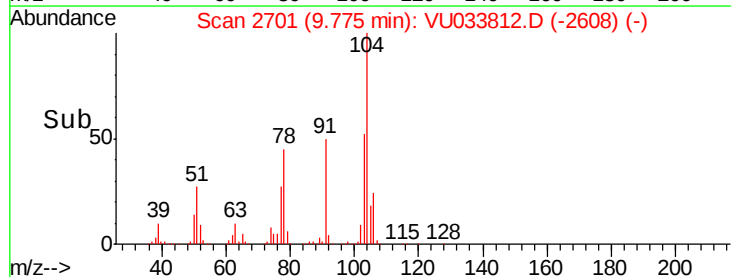
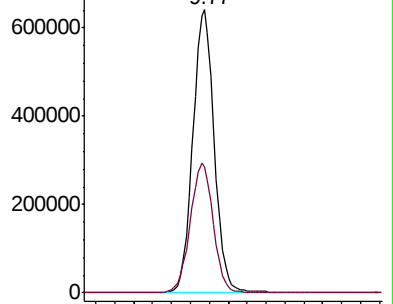
104 100

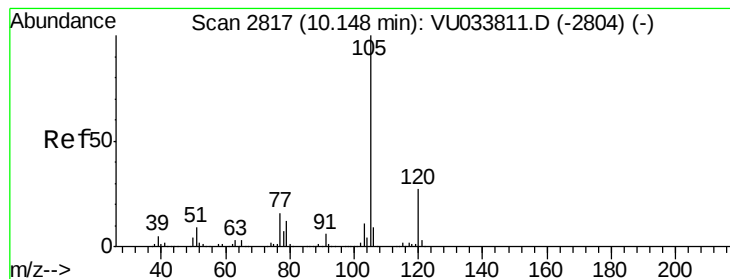
78 44.7 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 110.463 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD10031

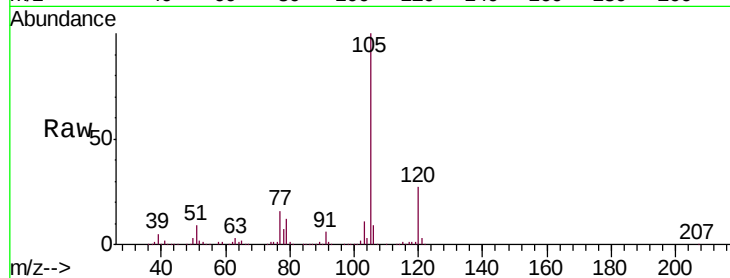
Tgt Ion:105 Resp: 1508941

Ion Ratio Lower Upper

105 100

120 27.0 21.4 32.0

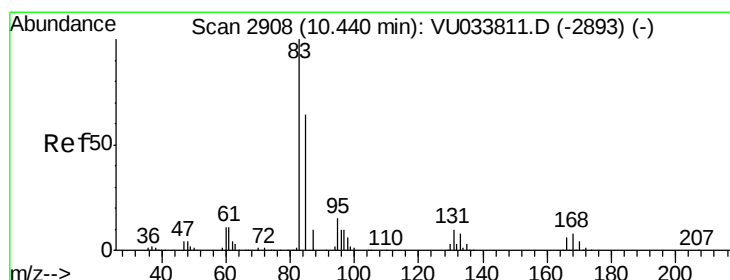
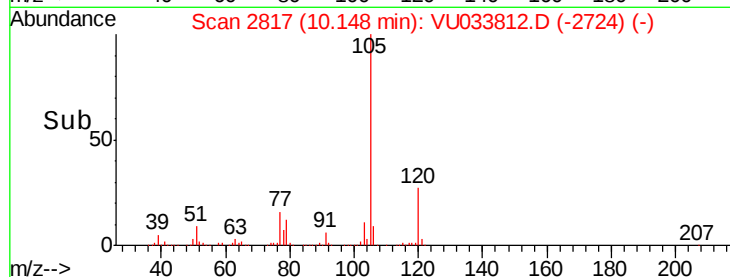
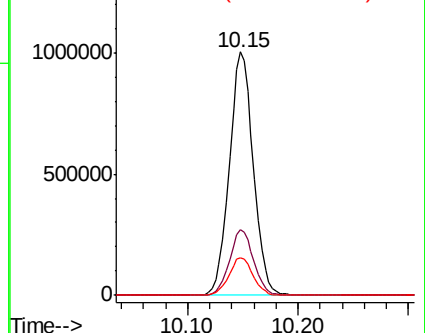
77 15.6 12.5 18.7



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: 100.960 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

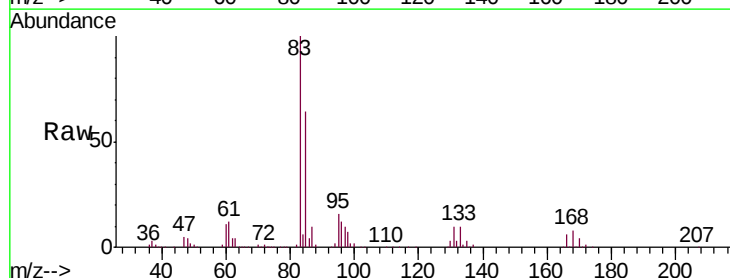
Tgt Ion: 83 Resp: 536036

Ion Ratio Lower Upper

83 100

85 64.1 44.6 82.8

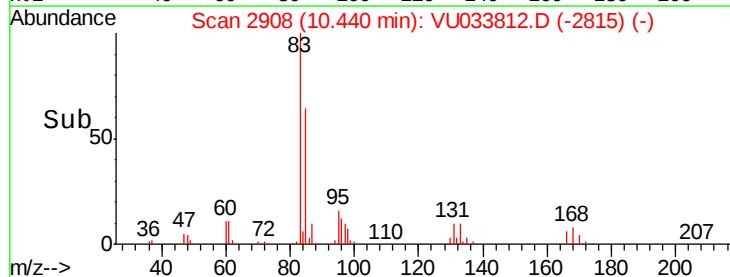
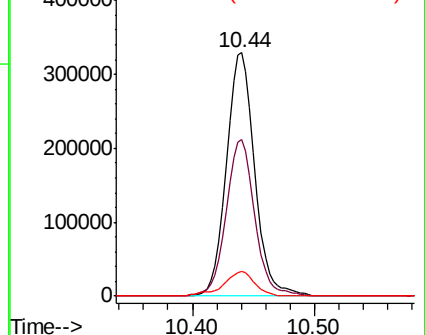
131 10.0 7.8 11.6

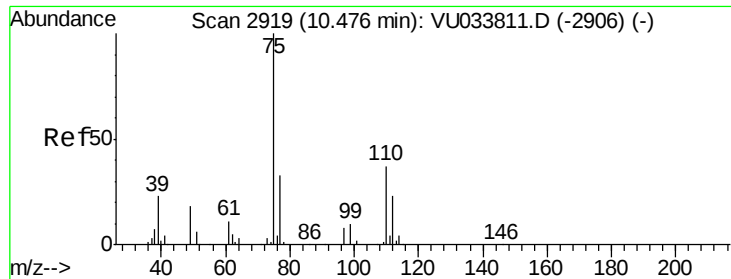


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 100.493 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

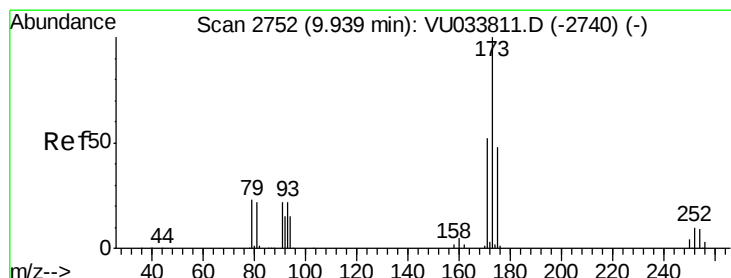
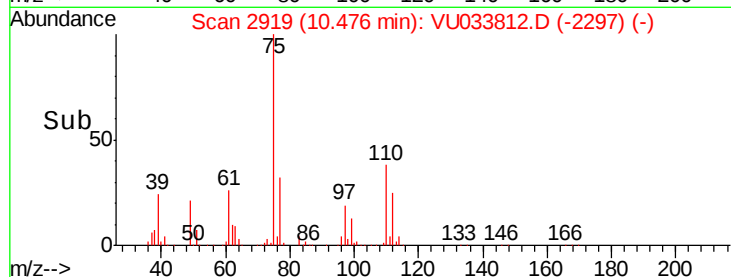
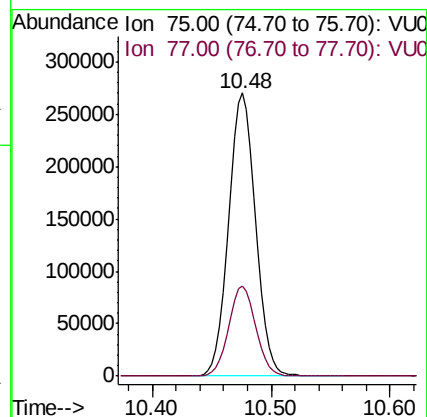
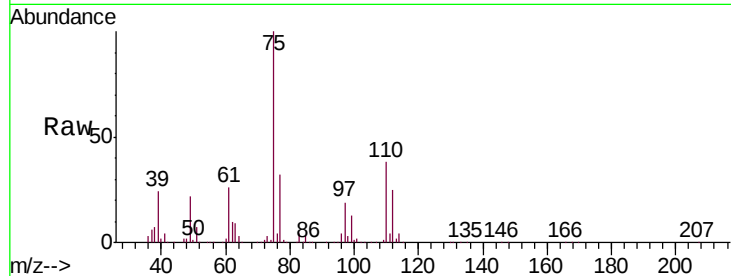
VSTD10031

Tgt Ion: 75 Resp: 423457

Ion Ratio Lower Upper

75 100

77 32.2 26.0 39.0



#61

Bromoform

Concen: 105.794 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

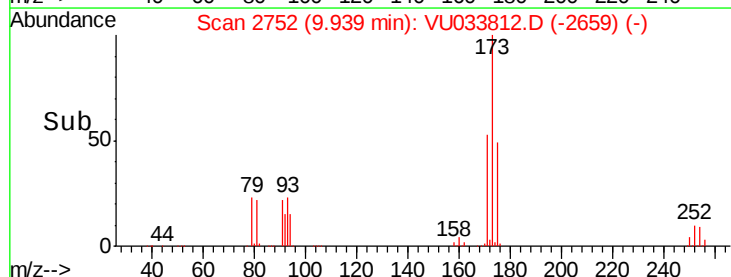
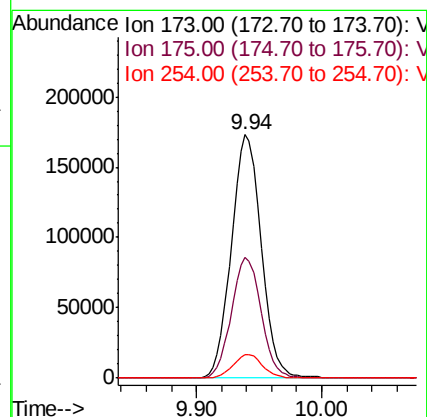
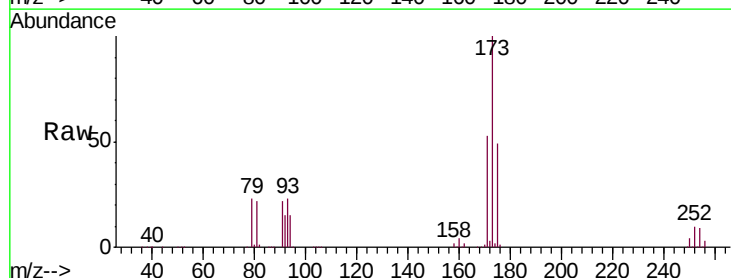
Tgt Ion: 173 Resp: 286698

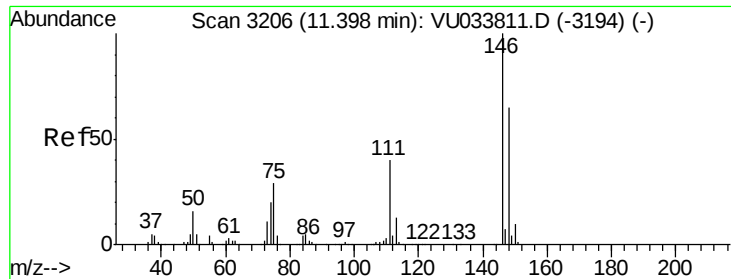
Ion Ratio Lower Upper

173 100

175 49.3 38.8 58.2

254 9.5 7.4 11.0

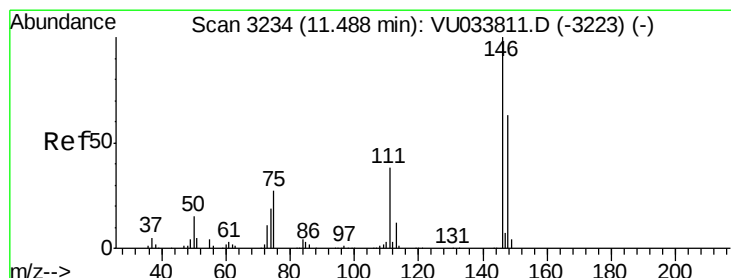
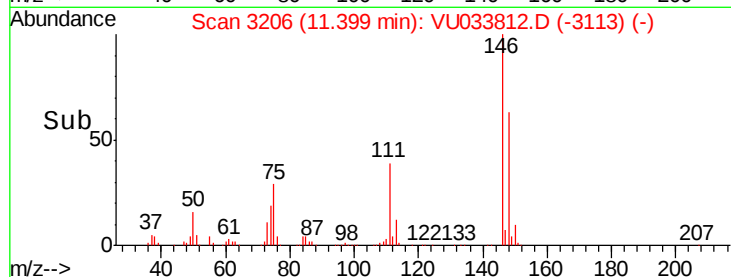
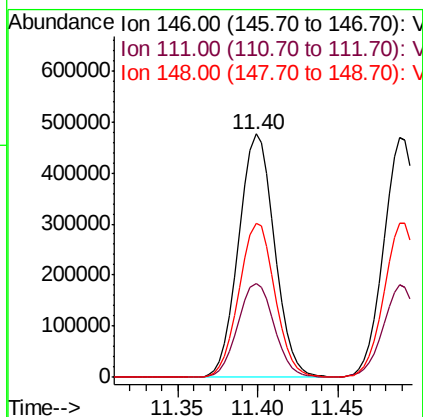
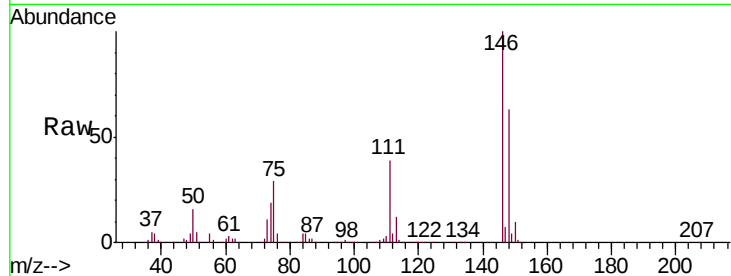




#62
 1,3-Dichlorobenzene
 Concen: 105.751 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU033812.D
 Acq: 15 Aug 2019 15:50

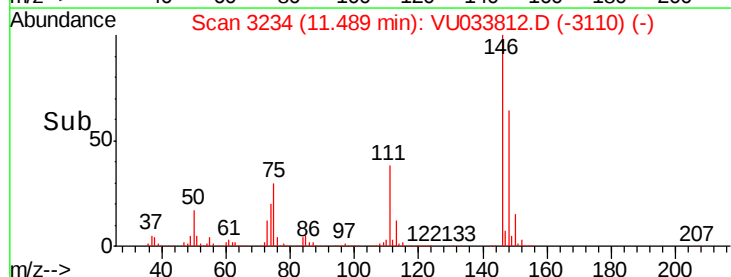
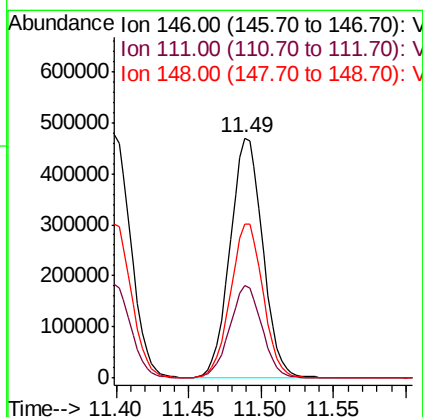
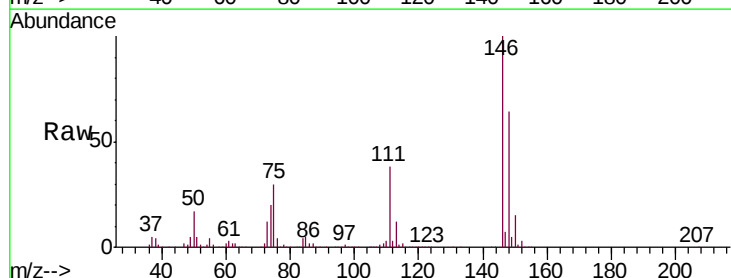
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10031

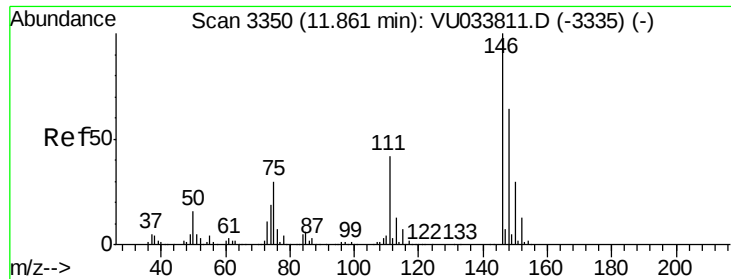
Tgt Ion:146 Resp: 726610
 Ion Ratio Lower Upper
 146 100
 111 38.7 28.1 52.1
 148 63.4 45.2 84.0



#63
 1,4-Dichlorobenzene
 Concen: 104.698 ug/L
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU033812.D
 Acq: 15 Aug 2019 15:50

Tgt Ion:146 Resp: 729265
 Ion Ratio Lower Upper
 146 100
 111 38.4 27.0 50.2
 148 64.2 44.5 82.7

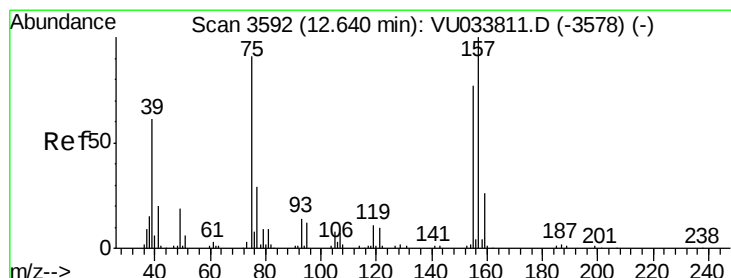
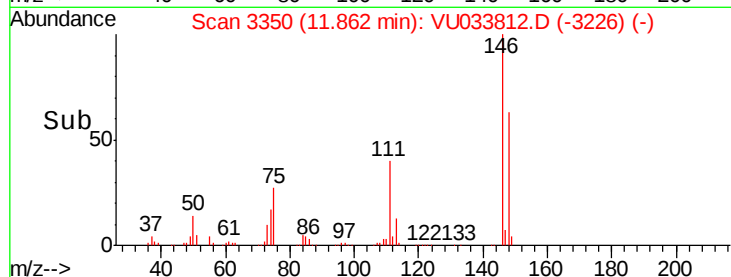
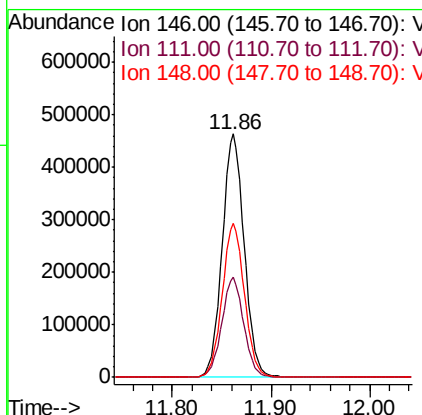
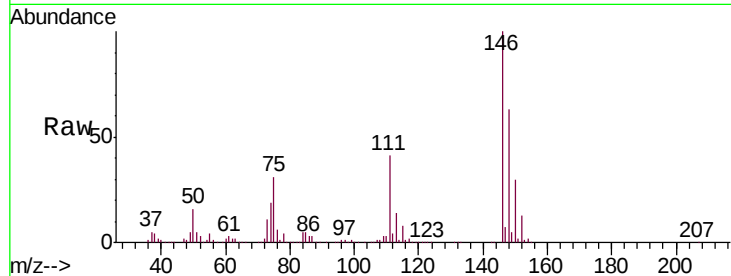




#65
 1,2-Dichlorobenzene
 Concen: 107.181 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033812.D
 Acq: 15 Aug 2019 15:50

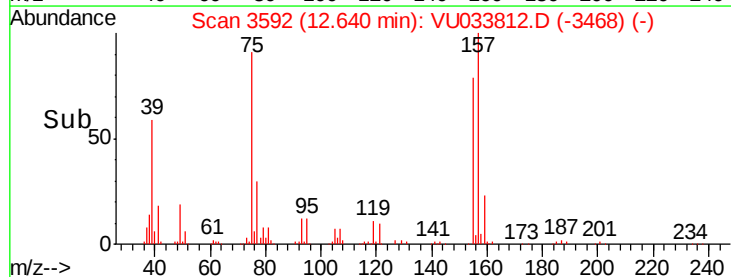
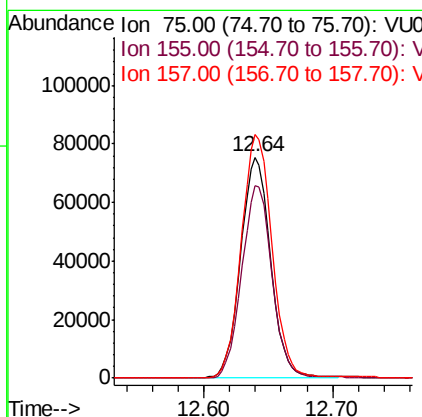
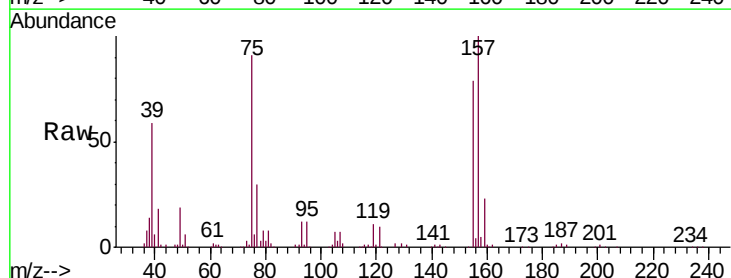
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10031

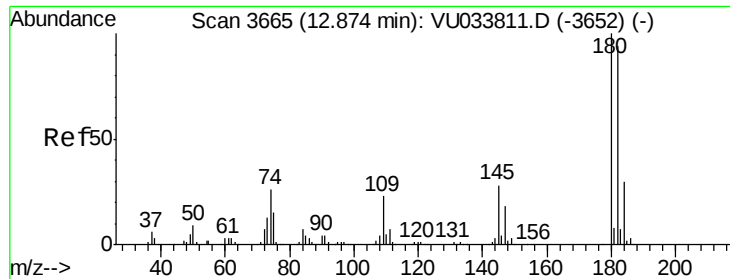
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.0	33.8	50.6
148	63.3	51.0	76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 98.002 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU033812.D
 Acq: 15 Aug 2019 15:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.1	67.5	101.3
157	110.3	87.7	131.5

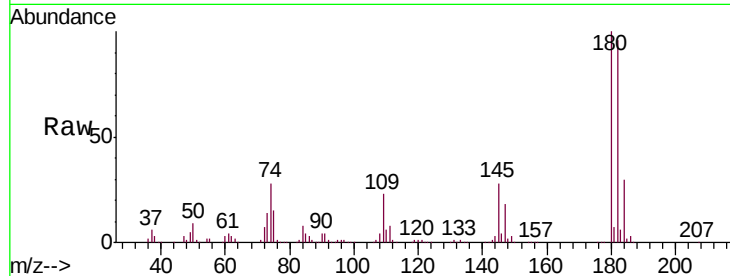




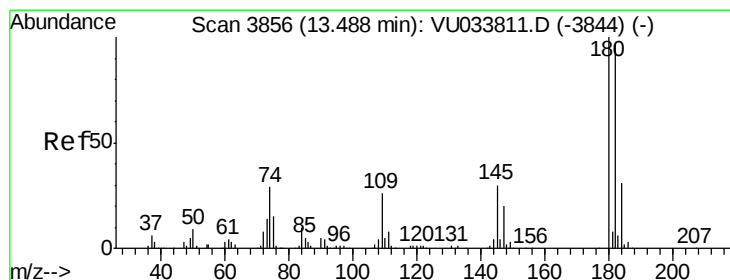
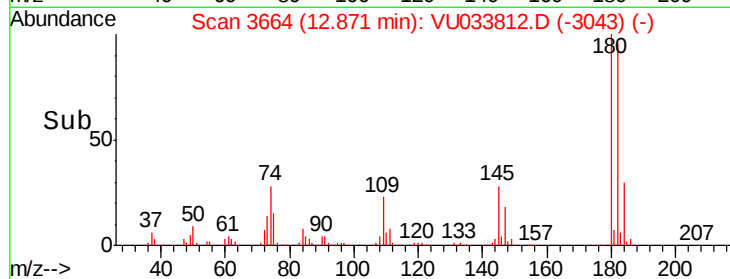
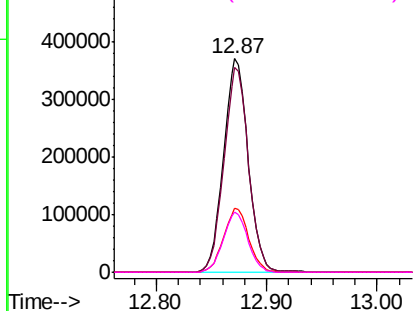
#67
 1,3,5-Trichlorobenzene
 Concen: 105.725 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. -0.00 min
 Lab File: VU033812.D
 Acq: 15 Aug 2019 15:50

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD10031

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.8	113.8
184	30.5	23.8	35.8
145	28.3	22.9	34.3

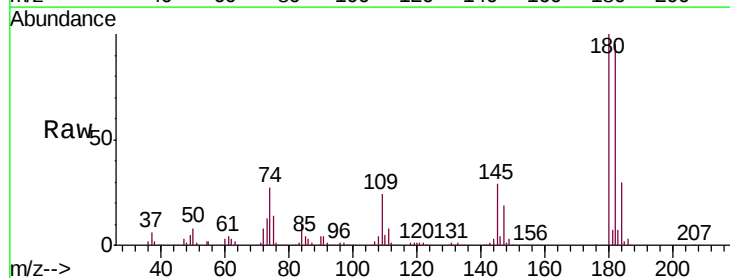


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

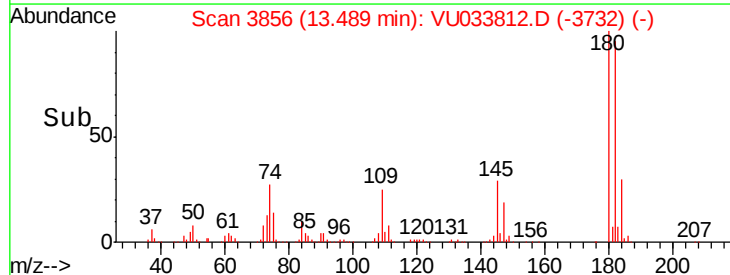
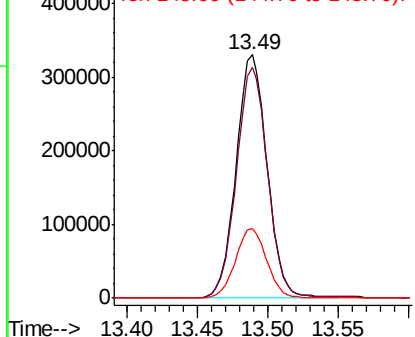


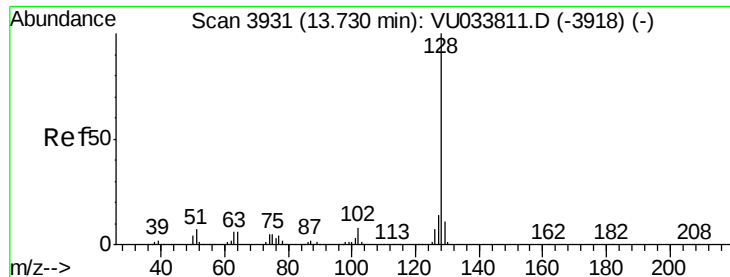
#68
 1,2,4-trichlorobenzene
 Concen: 106.163 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033812.D
 Acq: 15 Aug 2019 15:50

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.2	114.2
145	29.1	23.8	35.8



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: 111.795 ug/L

RT: 13.73 min Scan# 3930

Delta R.T. -0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD10031

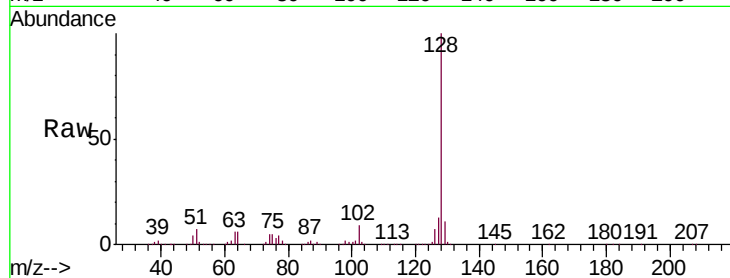
Tgt Ion:128 Resp: 1596976

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

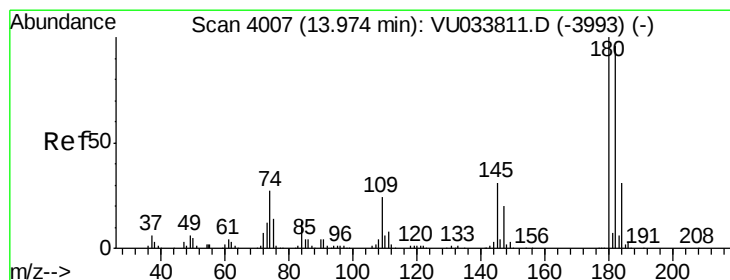
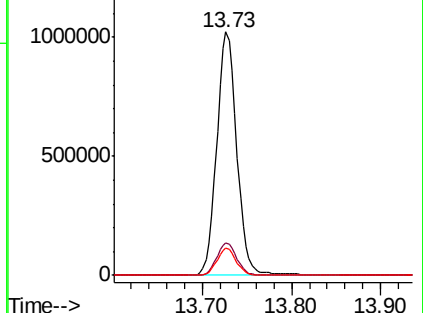
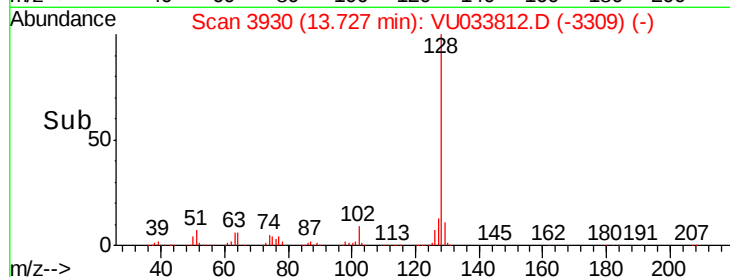
129 10.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 103.802 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU033812.D

Acq: 15 Aug 2019 15:50

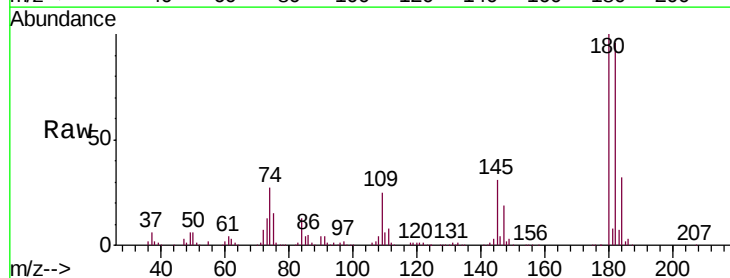
Tgt Ion:180 Resp: 523812

Ion Ratio Lower Upper

180 100

182 96.0 75.9 113.9

145 31.0 24.5 36.7



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

