

Data File : VU034887.D
Acq On : 30 Sep 2019 18:52
Operator : JC/SP
Sample : VSTD20036
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

Quant Time: Oct 01 02:41:21 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 02:35:34 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	342338	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	346835	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	170216	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	479628	145.53	ug/L	0.00
7) Chloroethane-d5	1.66	69	395624	153.97	ug/L	-0.02
11) 1,1-Dichloroethene-d2	2.25	63	840829	149.31	ug/L	0.00
21) 2-Butanone-d5	4.14	46	1042083	399.97	ug/L	0.00
24) Chloroform-d	4.62	84	968551	193.48	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	678540	183.94	ug/L	0.00
32) Benzene-d6	5.32	84	1844732	175.24	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	638548	175.16	ug/L	0.00
41) Toluene-d8	7.54	98	1777110	178.57	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	322441	186.51	ug/L	0.00
47) 2-Hexanone-d5	8.29	63	738541	405.28	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	973050	189.91	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	669641	188.58	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	391636	120.432	ug/L	99
3) Chloromethane	1.32	50	330396	87.708	ug/L	99
5) Vinyl chloride	1.40	62	342991	99.236	ug/L	99
6) Bromomethane	1.60	94	177378	94.565	ug/L	100
8) Chloroethane	1.68	64	214284	106.890	ug/L	100
9) Trichlorofluoromethane	1.87	101	509248	114.060	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	312967	141.621	ug/L	98
12) 1,1-Dichloroethene	2.26	96	256007	124.316	ug/L	95
13) Acetone	2.31	43	707422	242.338	ug/L	98
14) Carbon disulfide	2.46	76	429147	65.994	ug/L	99
15) Methyl Acetate	2.60	43	609614	153.715	ug/L	100
16) Methylene chloride	2.68	84	364507	136.593	ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	269182	119.980	ug/L	96
18) Methyl tert-butyl Ether	2.98	73	1479508	168.426	ug/L	100
19) 1,1-Dichloroethane	3.42	63	773869	145.600	ug/L	100
20) cis-1,2-Dichloroethene	4.20	96	398413	147.046	ug/L	99
22) 2-Butanone	4.23	43	1053683	301.459	ug/L	100
23) Bromochloromethane	4.52	128	185890	143.928	ug/L	98
25) Chloroform	4.65	83	821796	154.519	ug/L	100
27) 1,2-Dichloroethane	5.38	62	663658	147.162	ug/L	99
29) Cyclohexane	4.97	56	496485	96.914	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	646187	143.760	ug/L	99
31) Carbon tetrachloride	5.11	117	511533	135.900	ug/L	97
33) Benzene	5.36	78	1443670	128.881	ug/L	100
34) Trichloroethene	6.16	95	364282	131.232	ug/L	98
35) Methylcyclohexane	6.39	83	468193	102.904	ug/L	100
37) 1,2-Dichloropropane	6.41	63	487600	144.052	ug/L	100
38) Bromodichloromethane	6.73	83	658540	158.703	ug/L	99
39) cis-1,3-Dichloropropene	7.24	75	726456	142.562	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	2166690	331.029	ug/L	100

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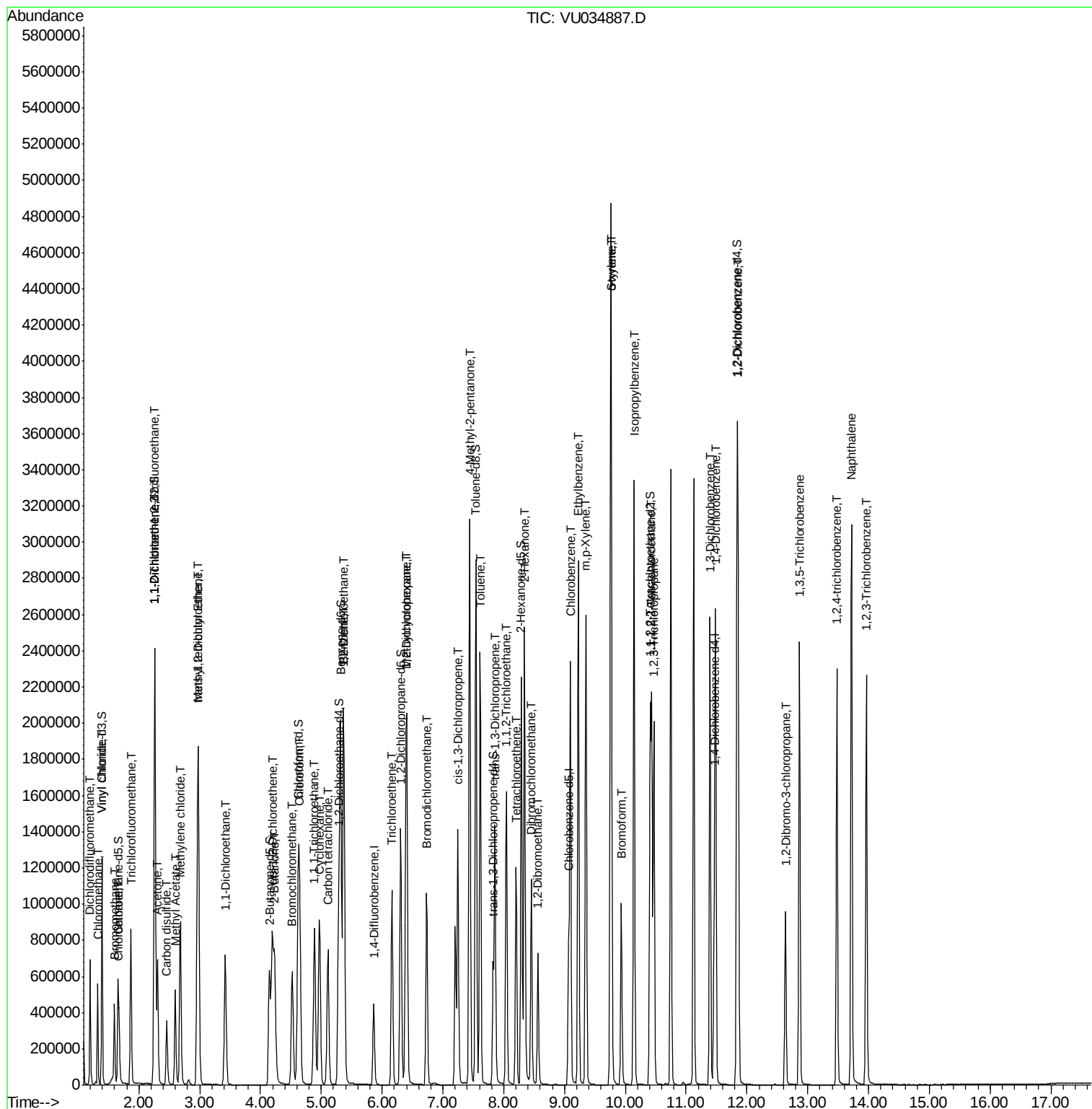
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.61	91	1598988	132.326	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	714911	157.051	ug/L	96
45) 1,1,2-Trichloroethane	8.04	97	468163	168.000	ug/L	98
46) Tetrachloroethene	8.21	164	239637	124.097	ug/L	98
48) 2-Hexanone	8.34	43	1700032	335.155	ug/L	100
49) Dibromochloromethane	8.45	129	529816	171.866	ug/L	98
50) 1,2-Dibromoethane	8.56	107	452987	154.578	ug/L	98
51) Chlorobenzene	9.10	112	1074653	143.897	ug/L	97
52) Ethylbenzene	9.23	91	1935466	141.073	ug/L	100
53) m,p-Xylene	9.35	106	674076	139.511	ug/L	99
54) o-xylene	9.76	106	717602	148.610	ug/L	97
55) Styrene	9.77	104	1318270	160.416	ug/L	100
56) Isopropylbenzene	10.14	105	2015809	153.768	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.43	83	973982	180.815	ug/L	99
59) 1,2,3-Trichloropropane	10.47	75	766809	175.764	ug/L	99
61) Bromoform	9.94	173	413839	182.002	ug/L	97
62) 1,3-Dichlorobenzene	11.39	146	916379	160.684	ug/L	100
63) 1,4-Dichlorobenzene	11.48	146	920907	158.790	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	963182	165.338	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.63	75	237665	191.880	ug/L	98
67) 1,3,5-Trichlorobenzene	12.86	180	671581	173.313	ug/L	99
68) 1,2,4-trichlorobenzene	13.48	180	623779	205.949	ug/L	97
69) Naphthalene	13.72	128	2278565	218.095	ug/L	100
70) 1,2,3-Trichlorobenzene	13.96	180	631179	200.104	ug/L	98

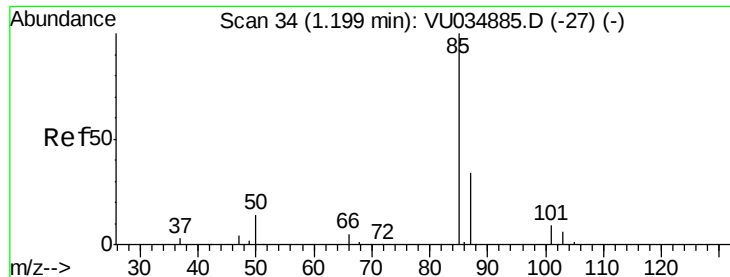
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 120.432 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

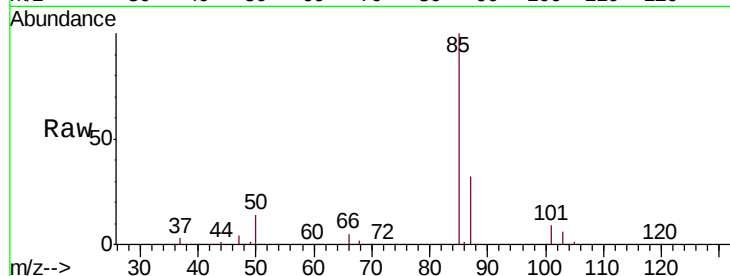
VSTD20036

Tgt Ion: 85 Resp: 391636

Ion Ratio Lower Upper

85 100

87 32.2 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU034887.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU034887.D (-1) (-)

1.20

400000

300000

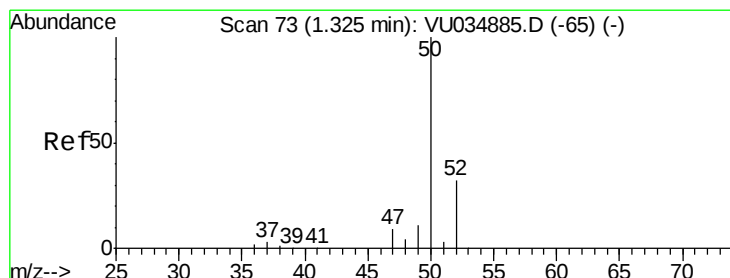
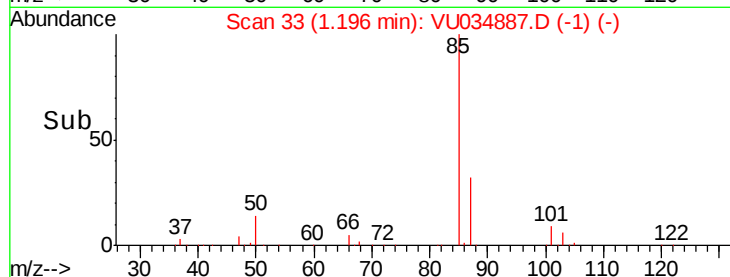
200000

100000

0

1.15 1.20 1.25 1.30

Time-->



#3

Chloromethane

Concen: 87.708 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034887.D

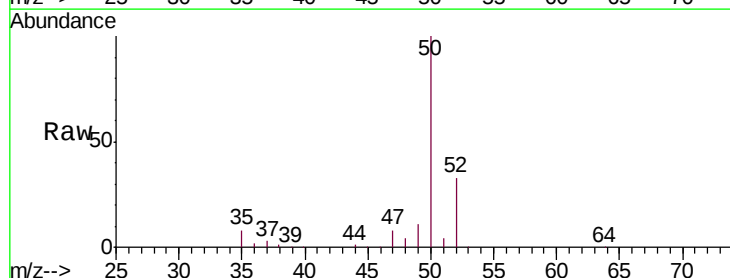
Acq: 30 Sep 2019 18:52

Tgt Ion: 50 Resp: 330396

Ion Ratio Lower Upper

50 100

52 32.8 22.4 41.6



Abundance Ion 50.00 (49.70 to 50.70): VU034887.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU034887.D (-1) (-)

1.32

300000

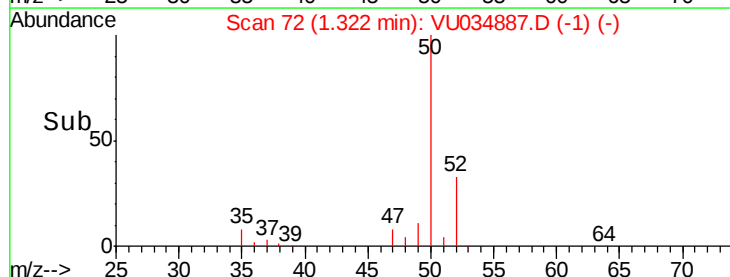
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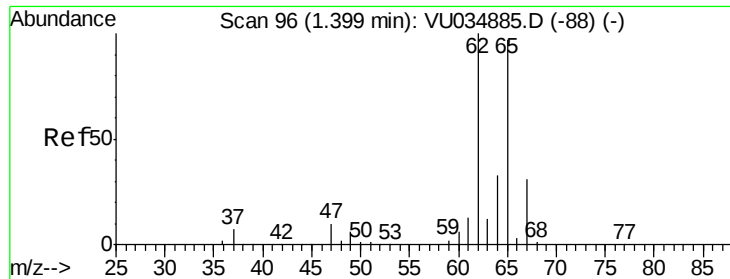
100000

0

1.30 1.35

Time-->





#5

Vinyl chloride

Concen: 99.236 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

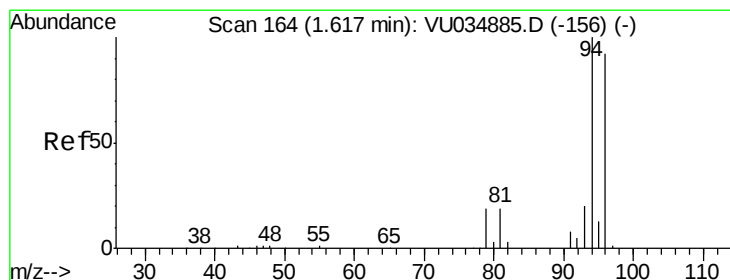
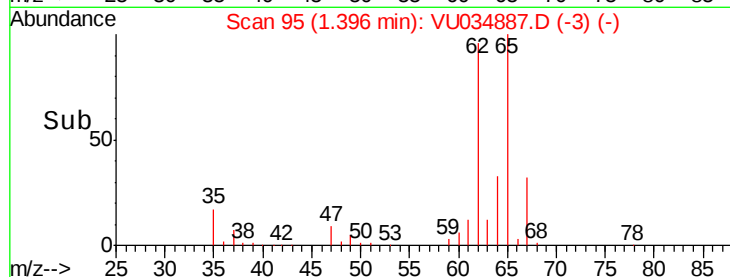
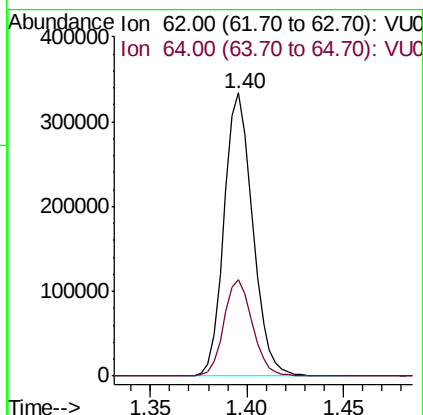
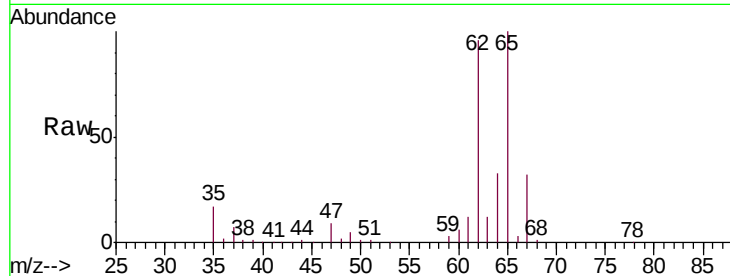
VSTD20036

Tgt Ion: 62 Resp: 342991

Ion Ratio Lower Upper

62 100

64 33.9 23.2 43.0



#6

Bromomethane

Concen: 94.565 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.02 min

Lab File: VU034887.D

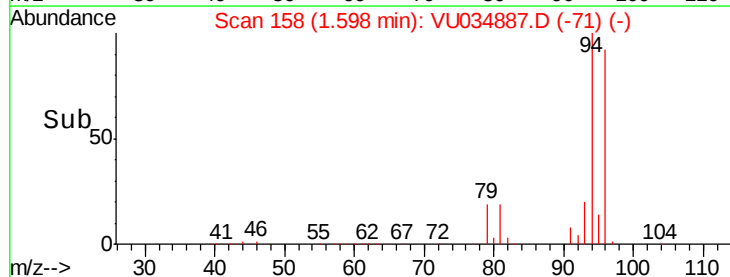
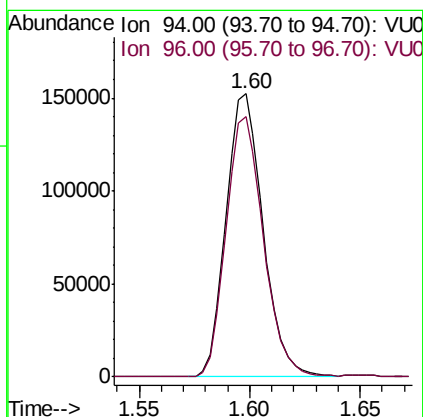
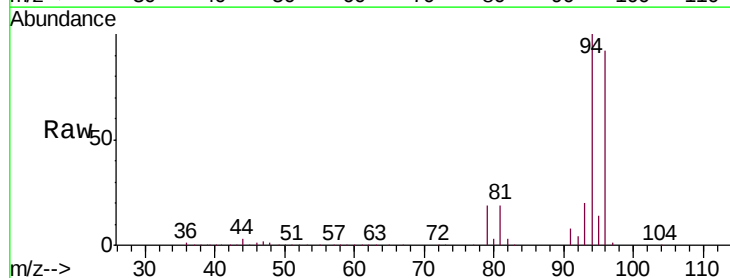
Acq: 30 Sep 2019 18:52

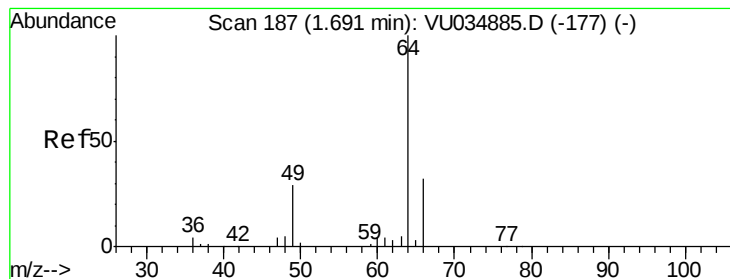
Tgt Ion: 94 Resp: 177378

Ion Ratio Lower Upper

94 100

96 92.1 64.4 119.6





#8

Chloroethane

Concen: 106.890 ug/L

RT: 1.68 min Scan# 182

Delta R.T. -0.02 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

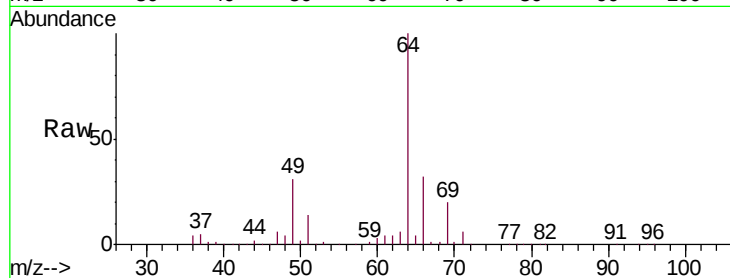
VSTD20036

Tgt Ion: 64 Resp: 214284

Ion Ratio Lower Upper

64 100

66 31.7 22.1 41.1



Abundance Ion 64.00 (63.70 to 64.70): VU034887.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU034887.D (-177) (-)

1.68

150000

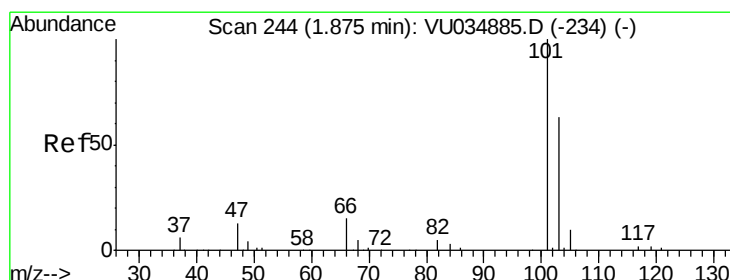
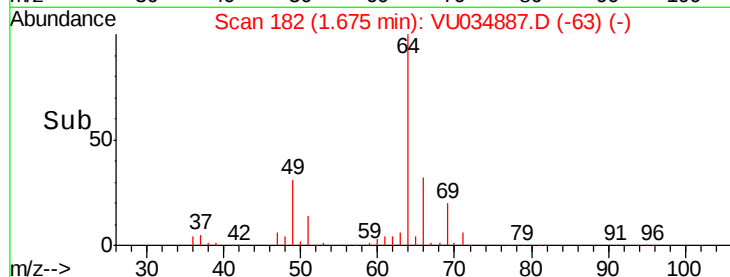
100000

50000

0

Time-->

1.60 1.65 1.70 1.75 1.80



#9

Trichlorofluoromethane

Concen: 114.060 ug/L

RT: 1.87 min Scan# 242

Delta R.T. -0.01 min

Lab File: VU034887.D

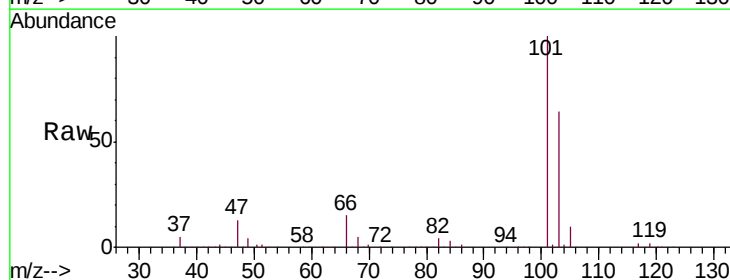
Acq: 30 Sep 2019 18:52

Tgt Ion: 101 Resp: 509248

Ion Ratio Lower Upper

101 100

103 63.9 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU034887.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU034887.D (-234) (-)

1.87

400000

300000

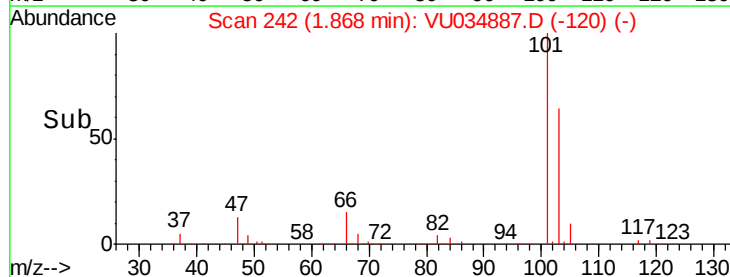
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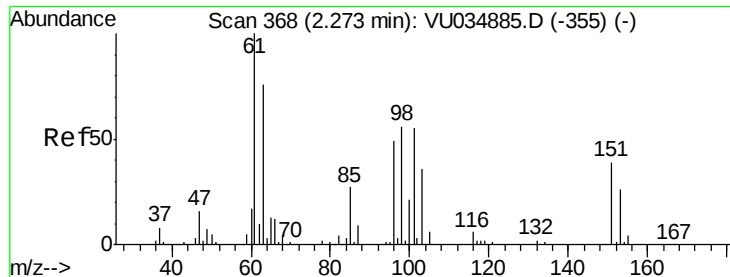
100000

0

Time-->

1.80 1.85 1.90 1.95 2.00





#10

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

Concen: 141.621 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

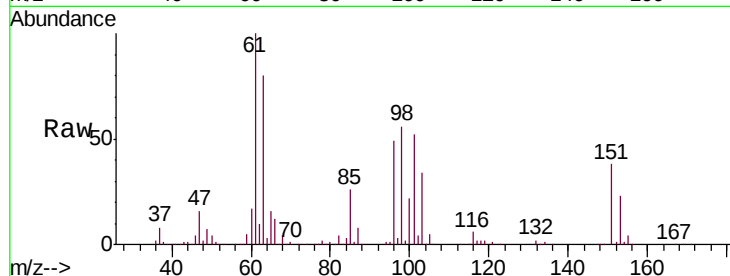
Tgt Ion: 101 Resp: 312967

Ion Ratio Lower Upper

101 100

85 47.9 37.1 55.7

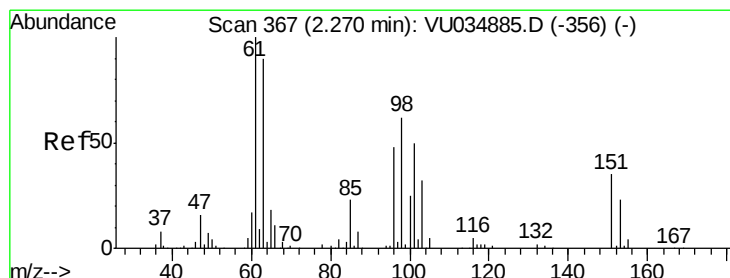
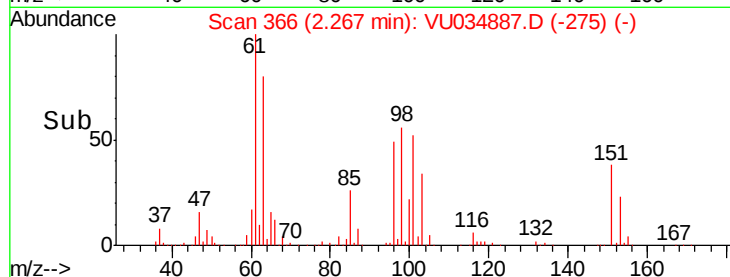
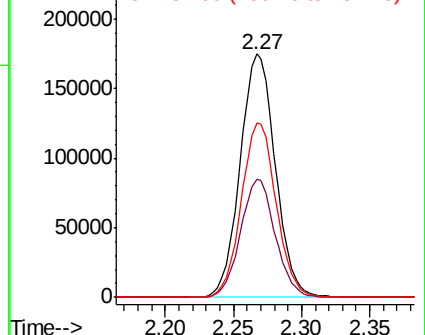
151 70.9 56.0 84.0



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: 124.316 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.01 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

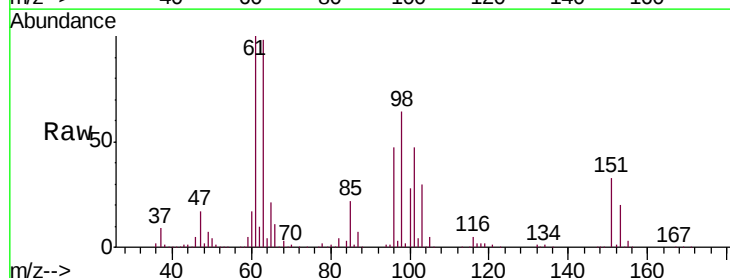
Tgt Ion: 96 Resp: 256007

Ion Ratio Lower Upper

96 100

61 214.8 147.0 273.0

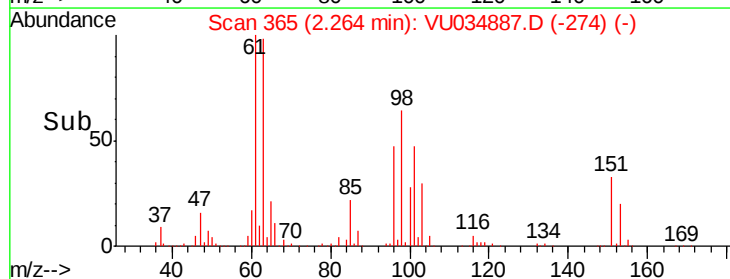
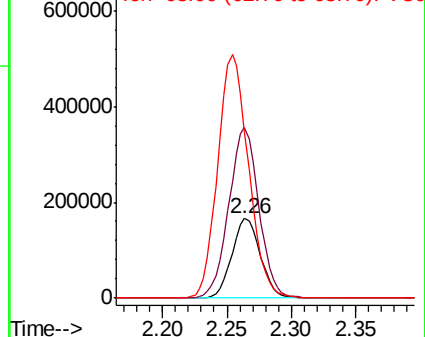
63 210.4 140.5 260.9

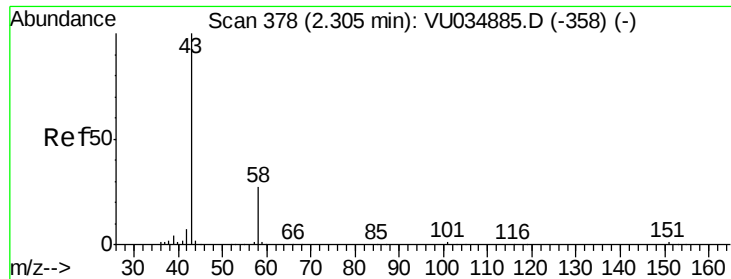


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 242.338 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

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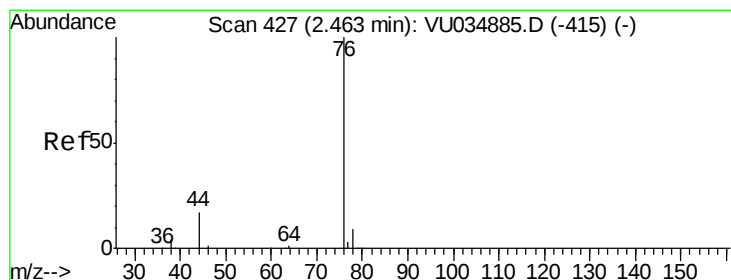
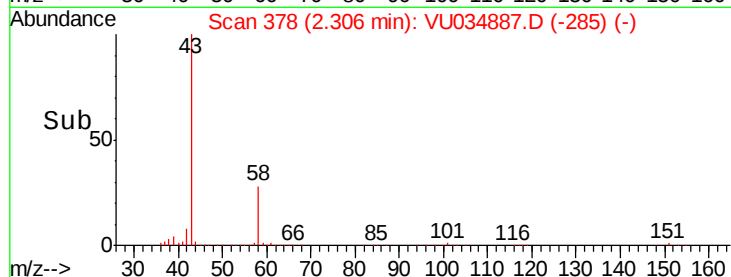
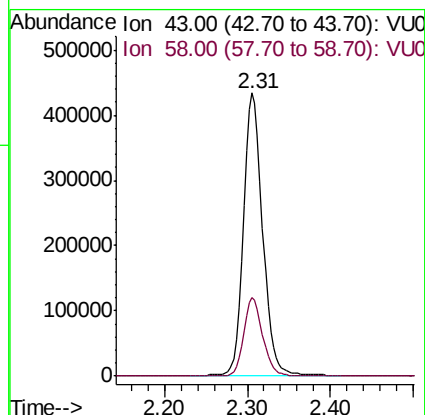
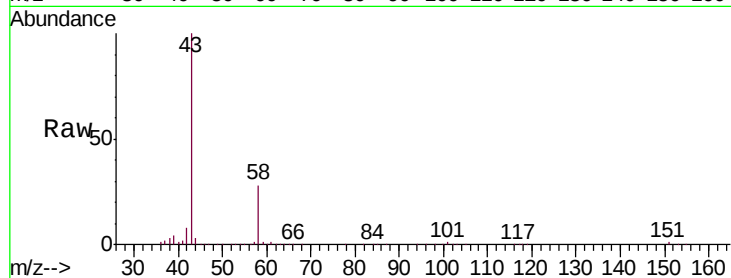
VSTD20036

Tgt Ion: 43 Resp: 707422

Ion Ratio Lower Upper

43 100

58 27.4 0.0 52.6



#14

Carbon disulfide

Concen: 65.994 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.01 min

Lab File: VU034887.D

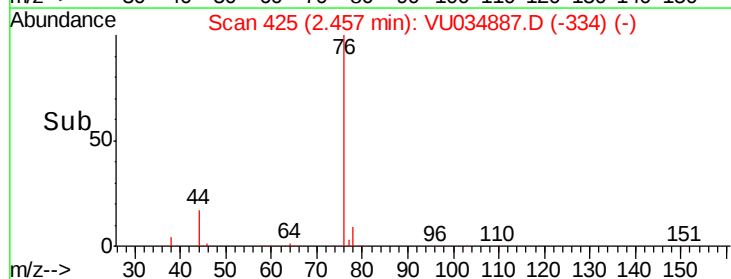
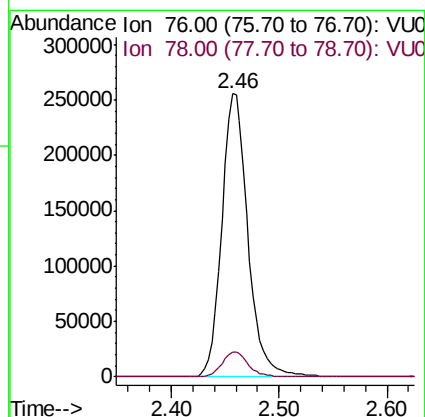
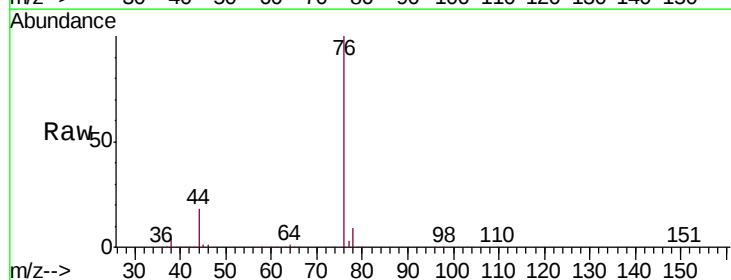
Acq: 30 Sep 2019 18:52

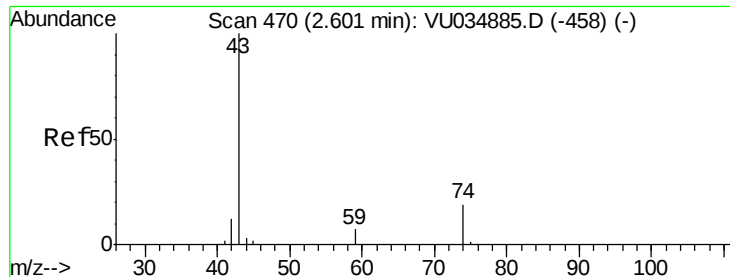
Tgt Ion: 76 Resp: 429147

Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9

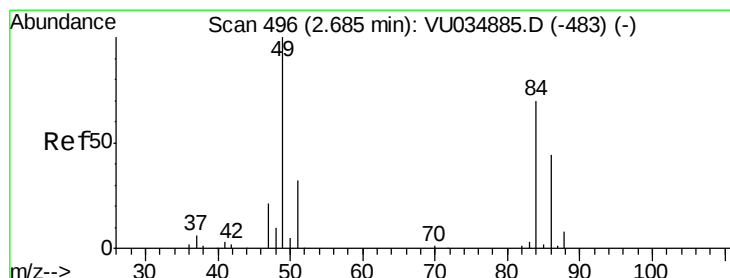
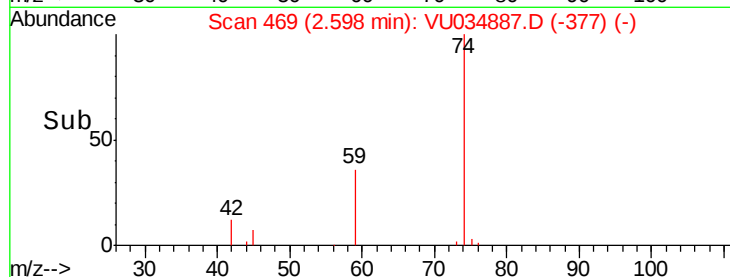
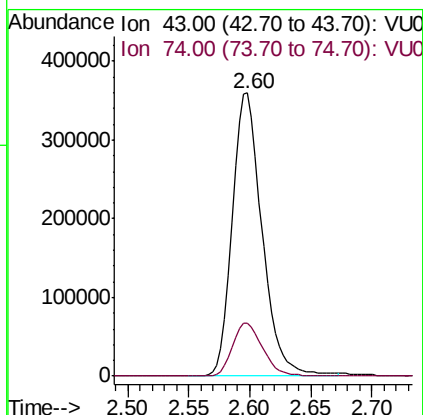
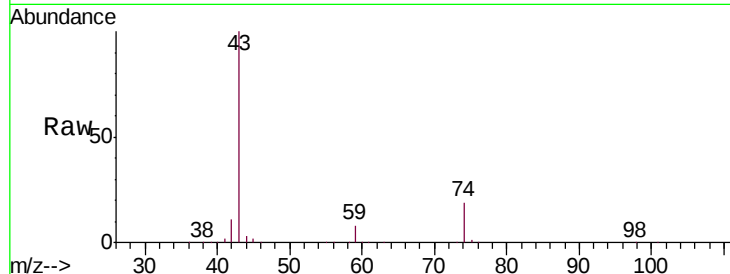




#15
Methyl Acetate
Concen: 153.715 ug/L
RT: 2.60 min Scan# 469
Delta R.T. -0.00 min
Lab File: VU034887.D
Acq: 30 Sep 2019 18:52

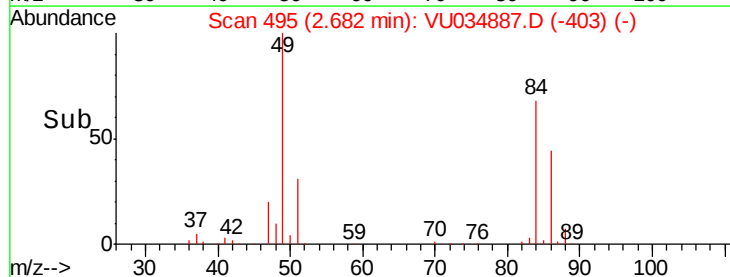
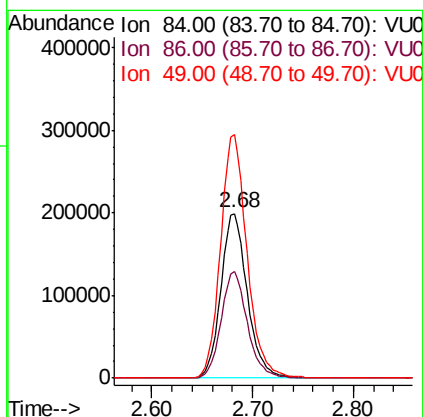
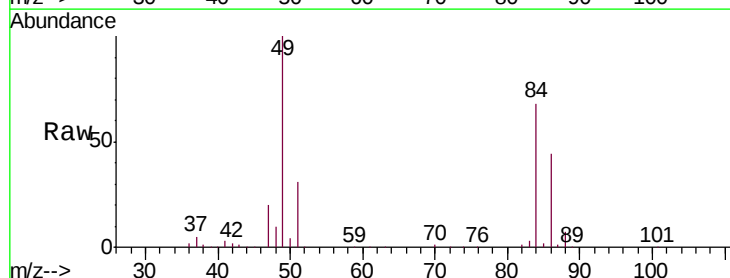
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

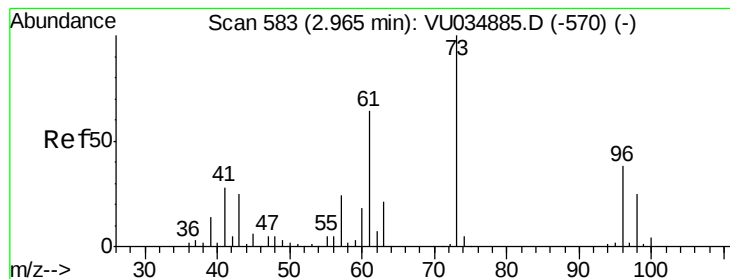
Tgt Ion: 43 Resp: 609614
Ion Ratio Lower Upper
43 100
74 19.2 15.3 22.9



#16
Methylene chloride
Concen: 136.593 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU034887.D
Acq: 30 Sep 2019 18:52

Tgt Ion: 84 Resp: 364507
Ion Ratio Lower Upper
84 100
86 64.4 44.7 82.9
49 147.8 100.7 186.9





#17

trans-1,2-Dichloroethene

Concen: 119.980 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

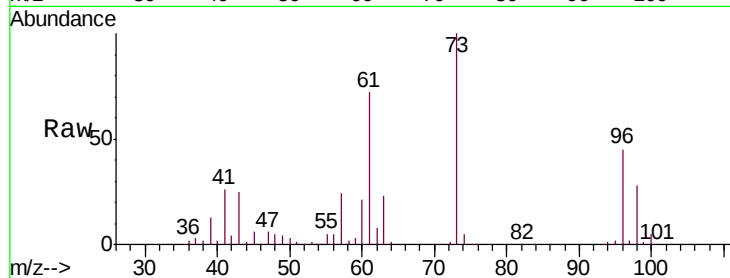
Tgt Ion: 96 Resp: 269182

Ion Ratio Lower Upper

96 100

61 160.9 117.5 218.1

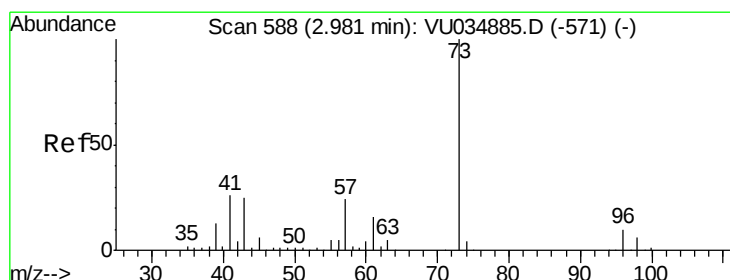
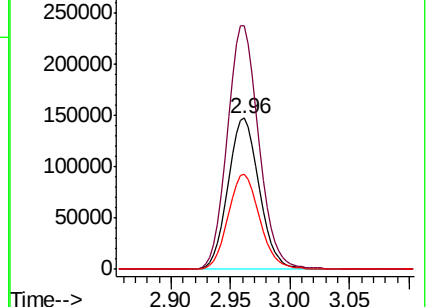
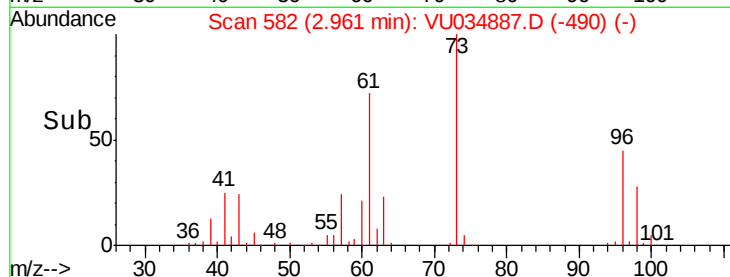
98 63.1 45.8 85.0



Abundance Ion 96.00 (95.70 to 96.70): VU034887.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU034887.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU034887.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 168.426 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

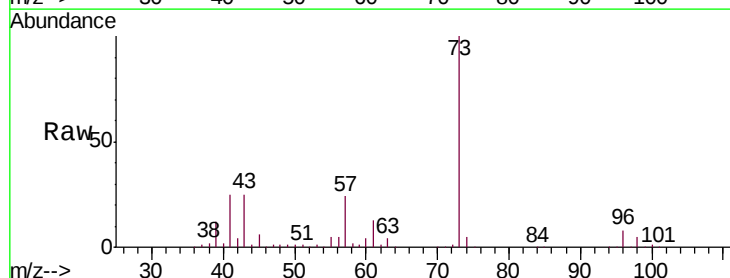
Tgt Ion: 73 Resp: 1479508

Ion Ratio Lower Upper

73 100

43 24.3 19.7 29.5

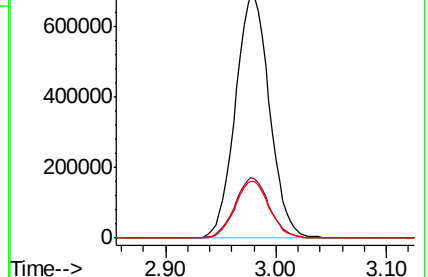
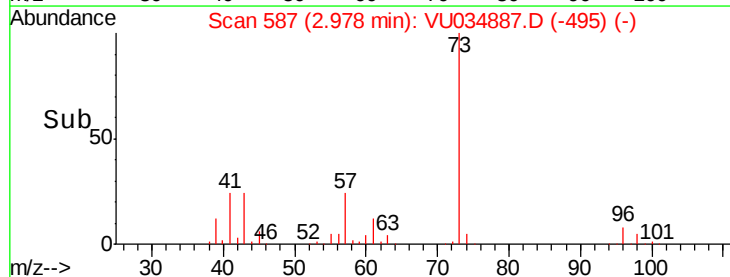
57 23.4 18.8 28.2

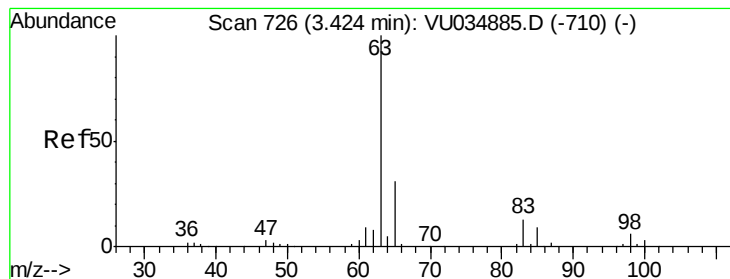


Abundance Ion 73.00 (72.70 to 73.70): VU034887.D (-495) (-)

Ion 43.00 (42.70 to 43.70): VU034887.D (-495) (-)

Ion 57.00 (56.70 to 57.70): VU034887.D (-495) (-)





#19

1,1-Dichloroethane

Concen: 145.600 ug/L

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

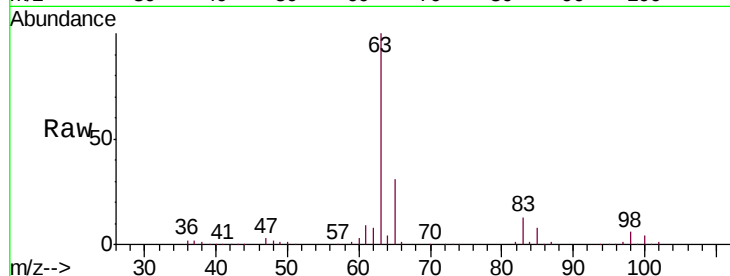
Tgt Ion: 63 Resp: 773869

Ion Ratio Lower Upper

63 100

65 31.0 21.6 40.2

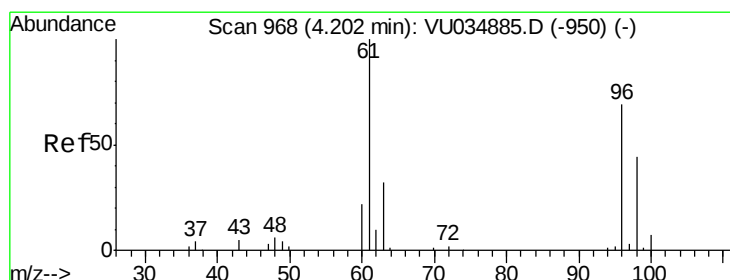
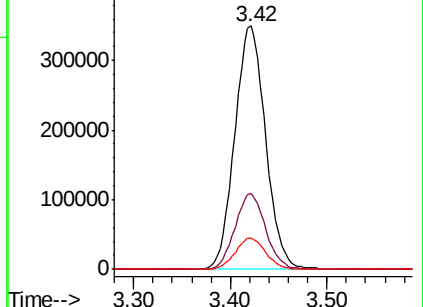
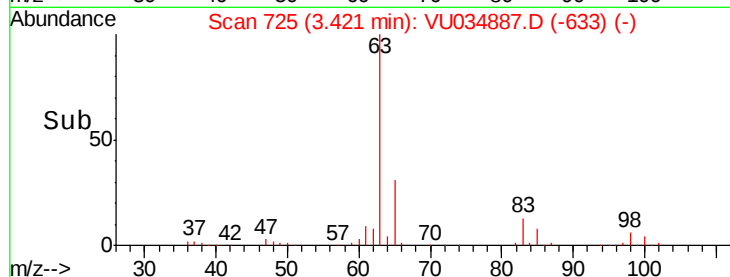
83 12.6 9.0 16.6



Abundance Ion 63.00 (62.70 to 63.70): VU034887.D (-633) (-)

Ion 65.00 (64.70 to 65.70): VU034887.D (-633) (-)

Ion 83.00 (82.70 to 83.70): VU034887.D (-633) (-)



#20

cis-1,2-Dichloroethene

Concen: 147.046 ug/L

RT: 4.20 min Scan# 966

Delta R.T. -0.01 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

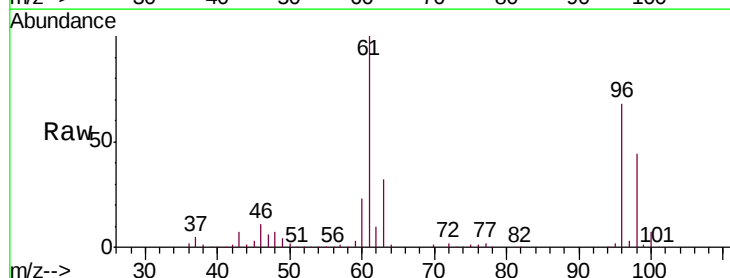
Tgt Ion: 96 Resp: 398413

Ion Ratio Lower Upper

96 100

61 146.4 101.2 188.0

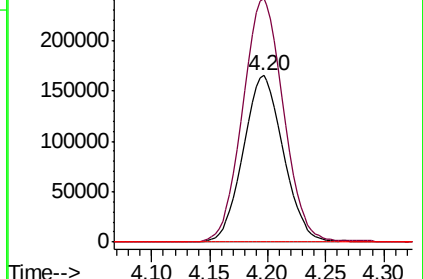
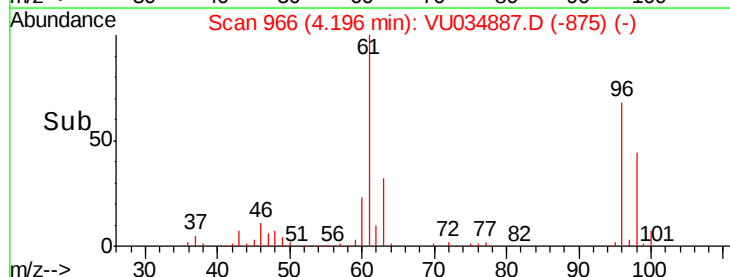
68 0.0 0.0 0.0

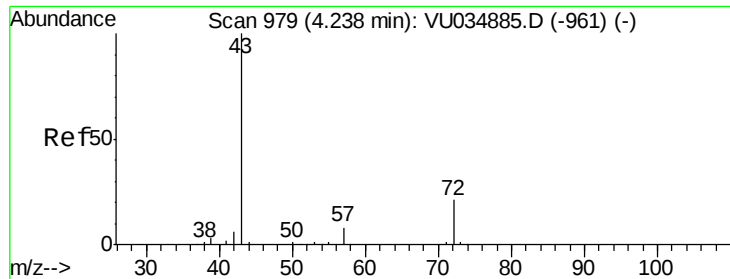


Abundance Ion 96.00 (95.70 to 96.70): VU034887.D (-875) (-)

Ion 61.00 (60.70 to 61.70): VU034887.D (-875) (-)

Ion 68.00 (67.70 to 68.70): VU034887.D (-875) (-)

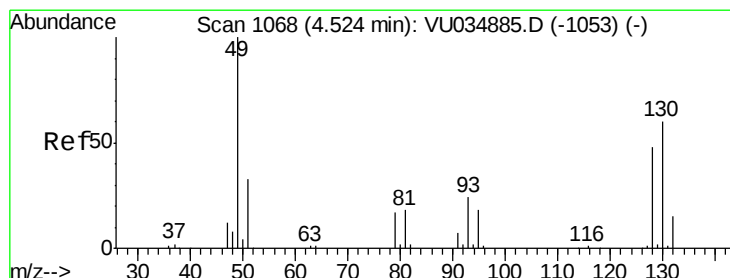
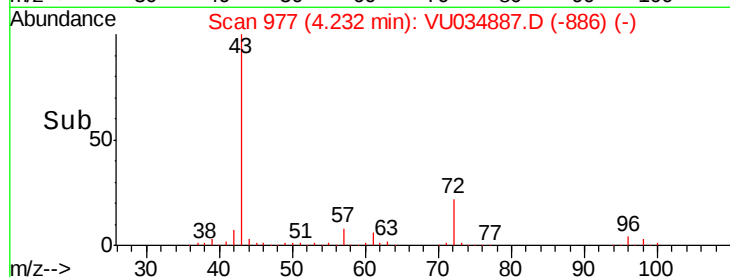
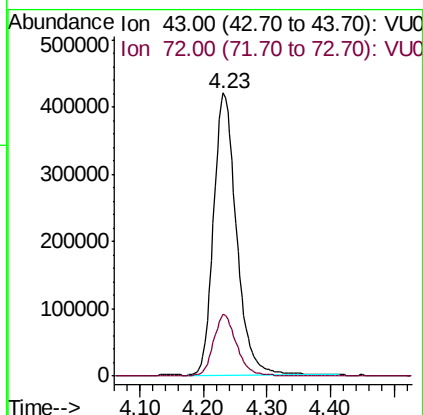
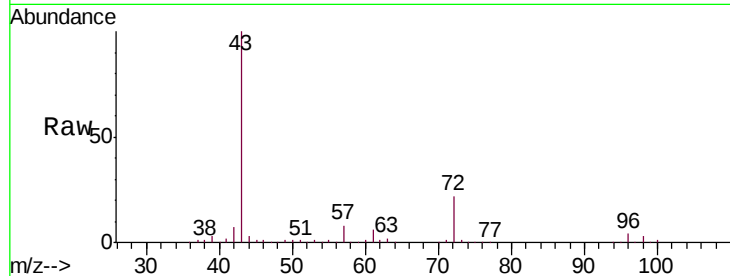




#22
2-Butanone
Concen: 301.459 ug/L
RT: 4.23 min Scan# 977
Delta R.T. -0.01 min
Lab File: VU034887.D
Acq: 30 Sep 2019 18:52

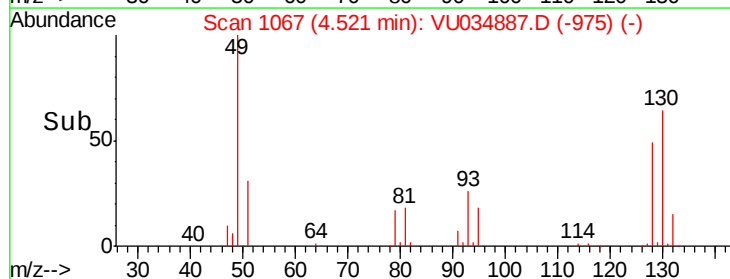
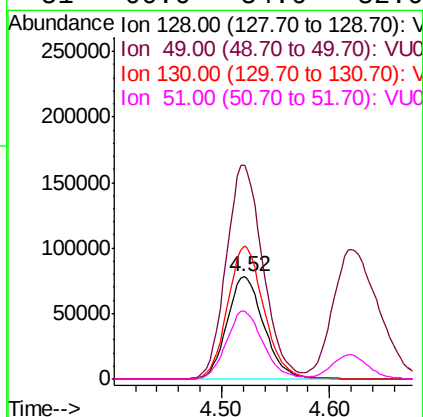
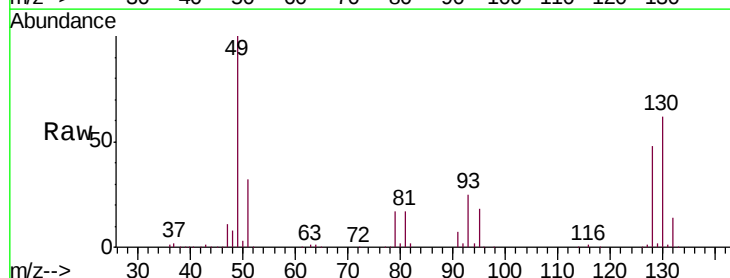
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

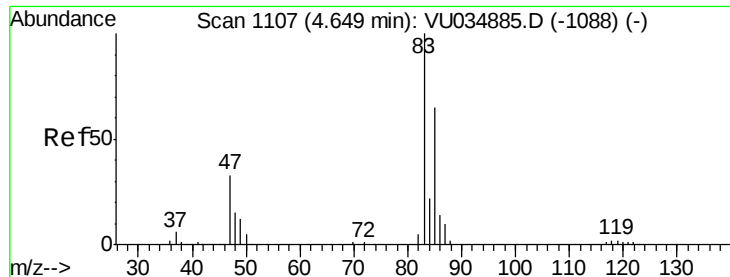
Tgt Ion: 43 Resp: 1053683
Ion Ratio Lower Upper
43 100
72 22.2 11.2 33.6



#23
Bromochloromethane
Concen: 143.928 ug/L
RT: 4.52 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VU034887.D
Acq: 30 Sep 2019 18:52

Tgt Ion: 128 Resp: 185890
Ion Ratio Lower Upper
128 100
49 208.6 145.7 270.5
130 130.2 86.9 161.5
51 66.6 54.6 82.0

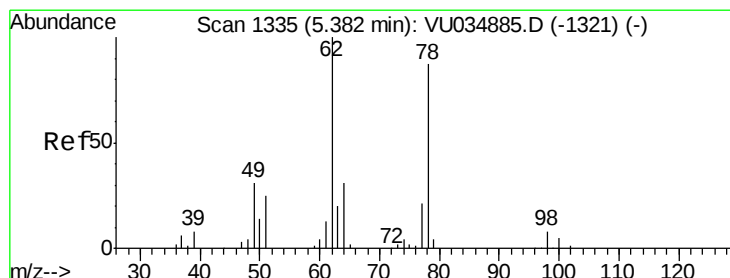
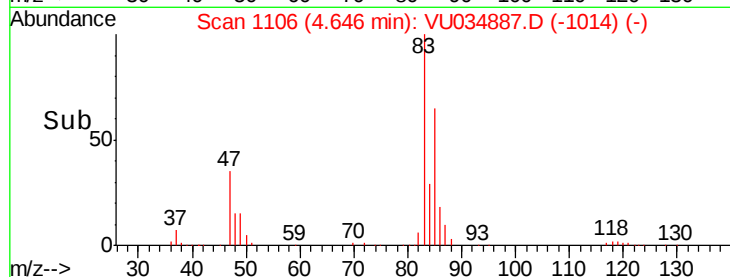
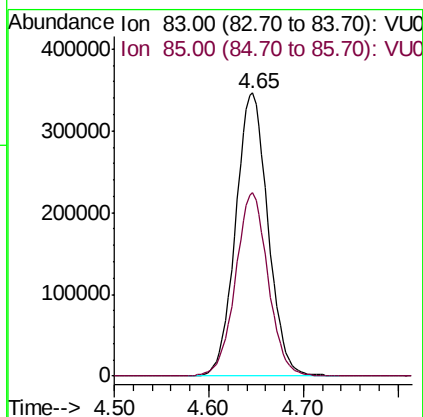
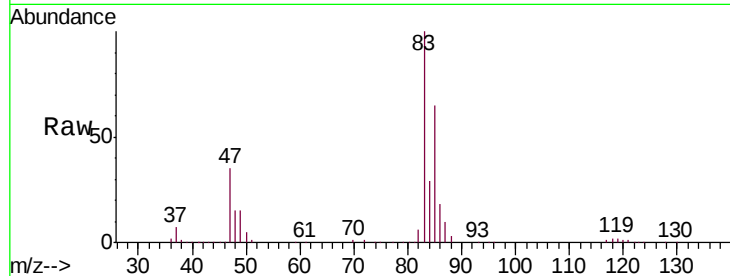




#25
Chloroform
Concen: 154.519 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU034887.D
Acq: 30 Sep 2019 18:52

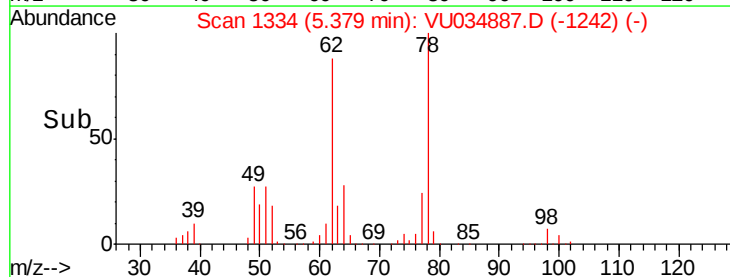
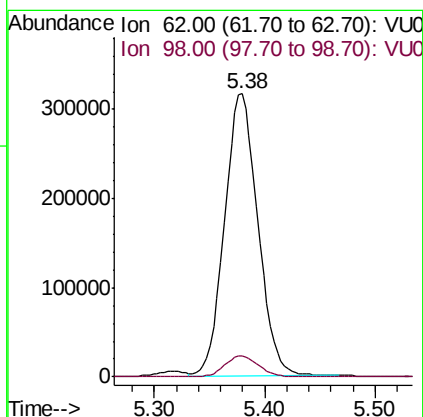
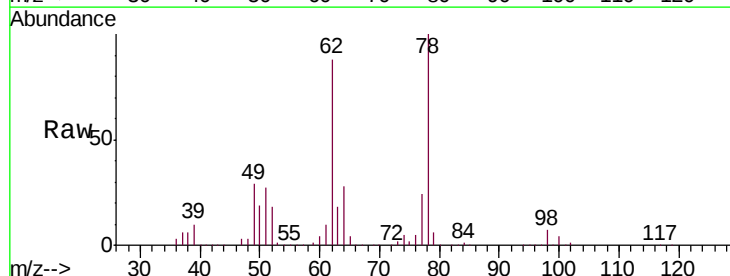
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

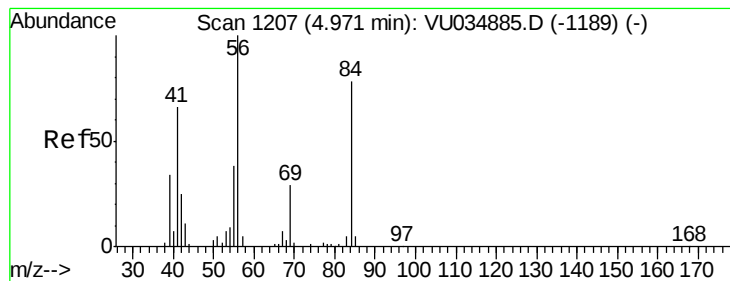
Tgt Ion: 83 Resp: 821796
Ion Ratio Lower Upper
83 100
85 64.9 45.5 84.5



#27
1,2-Dichloroethane
Concen: 147.162 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU034887.D
Acq: 30 Sep 2019 18:52

Tgt Ion: 62 Resp: 663658
Ion Ratio Lower Upper
62 100
98 7.5 6.2 9.2





#29

Cyclohexane

Concen: 96.914 ug/L

RT: 4.97 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

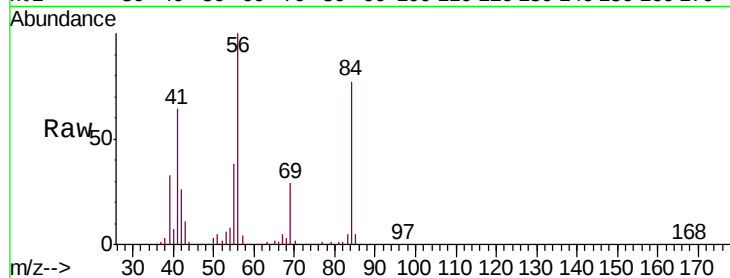
Tgt Ion: 56 Resp: 496485

Ion Ratio Lower Upper

56 100

69 28.3 22.6 33.8

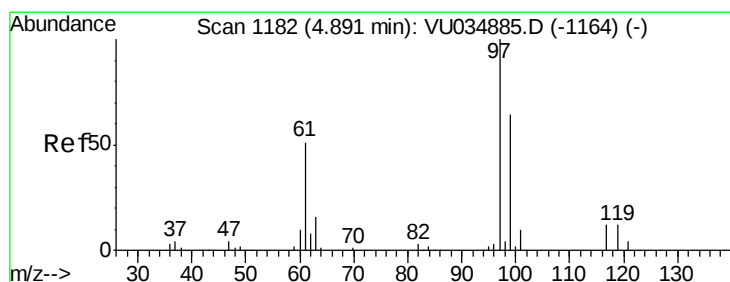
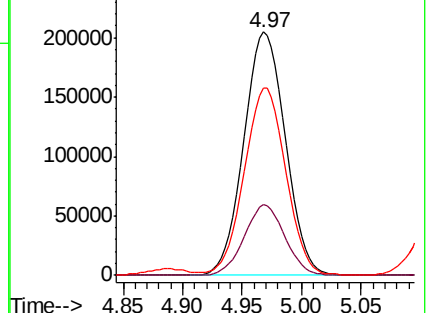
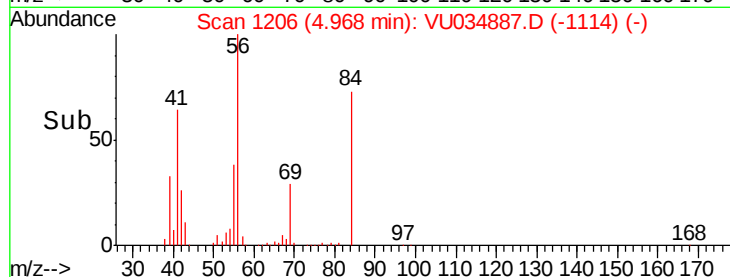
84 76.4 61.6 92.4



Abundance Ion 56.00 (55.70 to 56.70): VU034887.D (-1114) (-)

Ion 69.00 (68.70 to 69.70): VU034887.D (-1114) (-)

Ion 84.00 (83.70 to 84.70): VU034887.D (-1114) (-)



#30

1,1,1-Trichloroethane

Concen: 143.760 ug/L

RT: 4.89 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

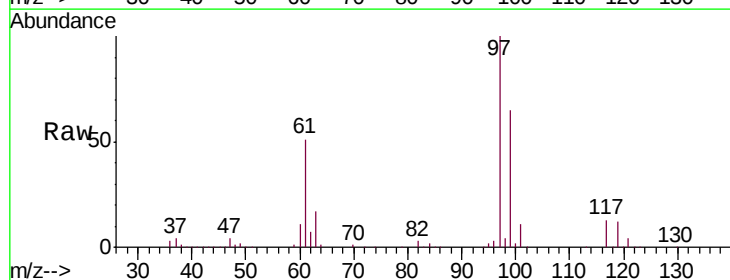
Tgt Ion: 97 Resp: 646187

Ion Ratio Lower Upper

97 100

99 63.9 50.8 76.2

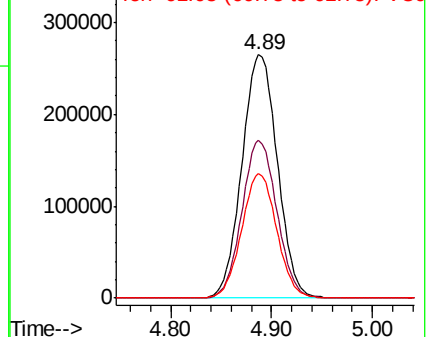
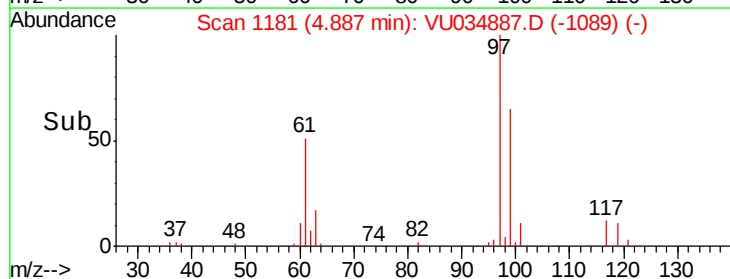
61 50.4 41.2 61.8

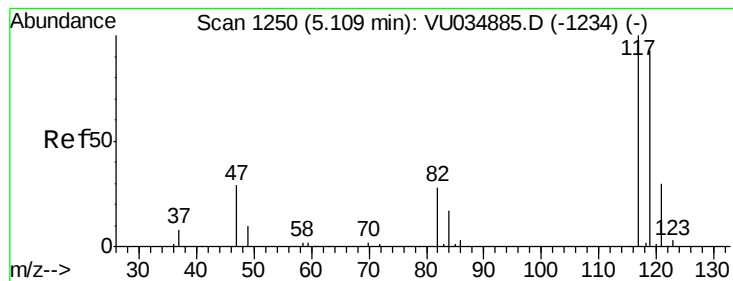


Abundance Ion 97.00 (96.70 to 97.70): VU034887.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VU034887.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VU034887.D (-1089) (-)





#31

Carbon tetrachloride

Concen: 135.900 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

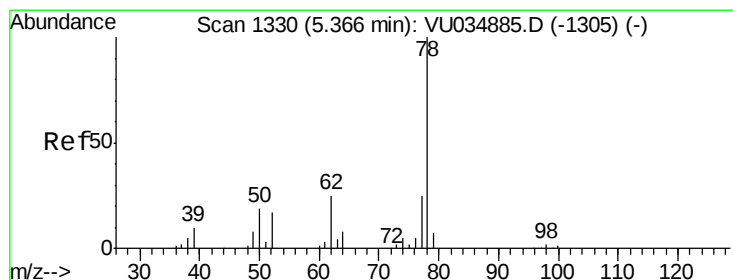
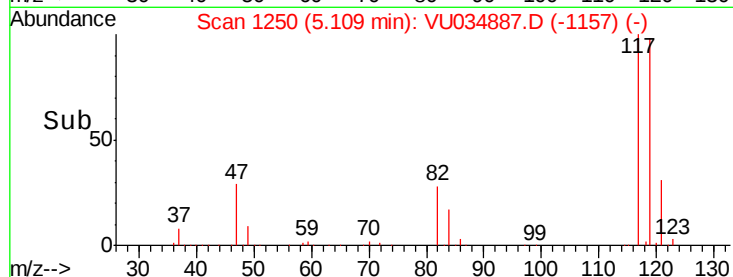
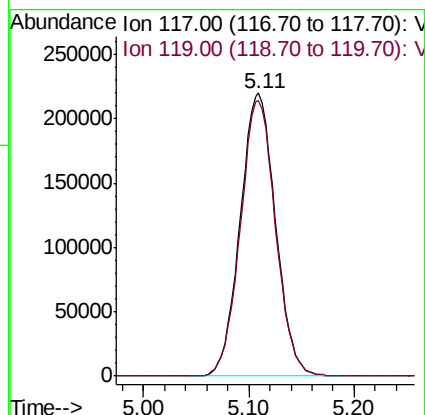
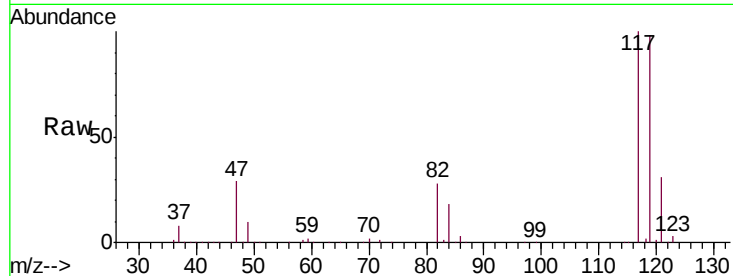
VSTD20036

Tgt Ion:117 Resp: 511533

Ion Ratio Lower Upper

117 100

119 96.9 75.3 112.9



#33

Benzene

Concen: 128.881 ug/L

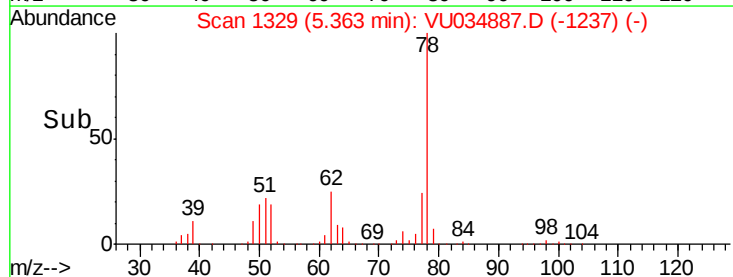
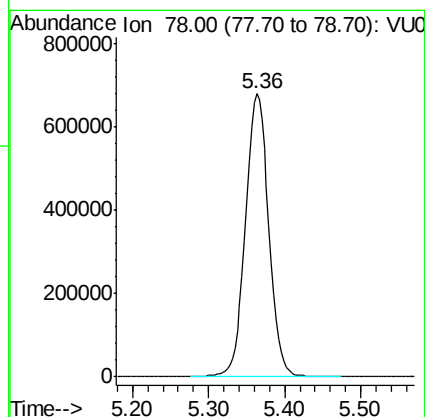
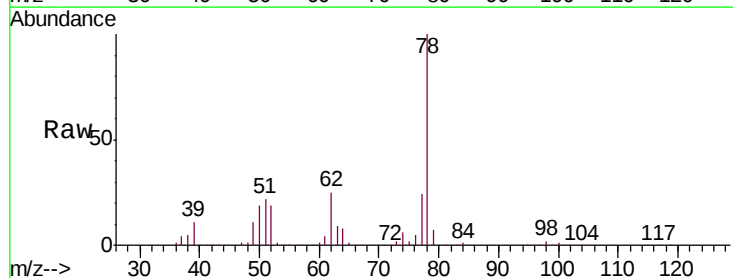
RT: 5.36 min Scan# 1329

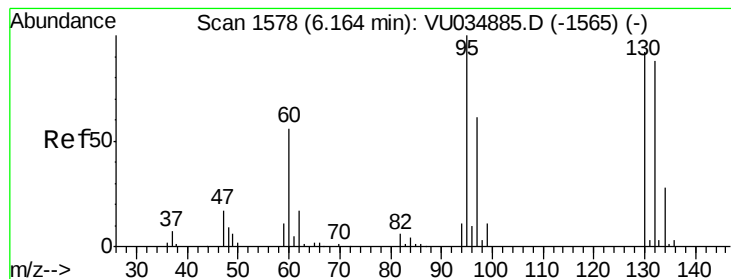
Delta R.T. -0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Tgt Ion: 78 Resp: 1443670





#34

Trichloroethene

Concen: 131.232 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

Tgt Ion: 95 Resp: 364282

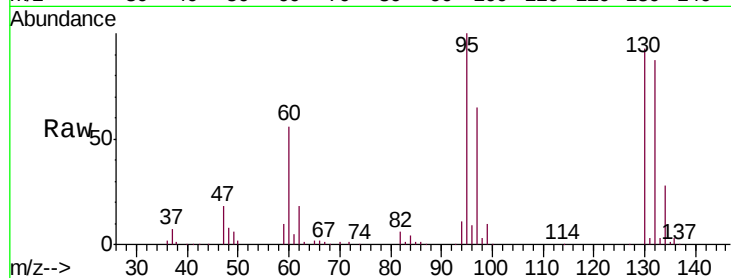
Ion Ratio Lower Upper

95 100

97 64.6 42.9 79.7

132 87.2 61.7 114.7

130 93.2 64.6 120.0



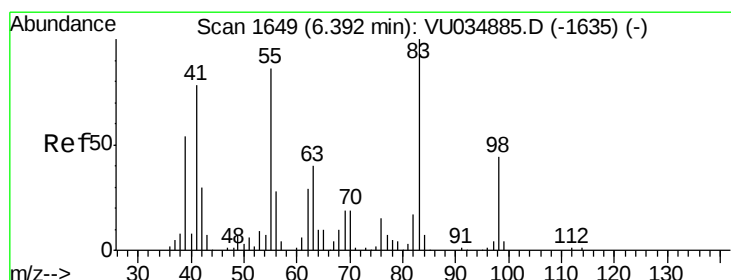
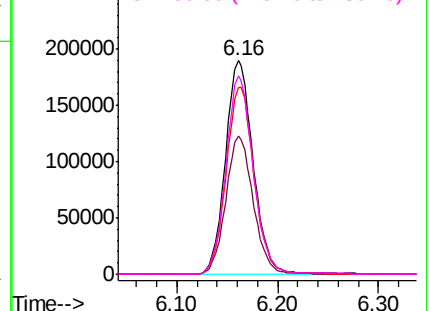
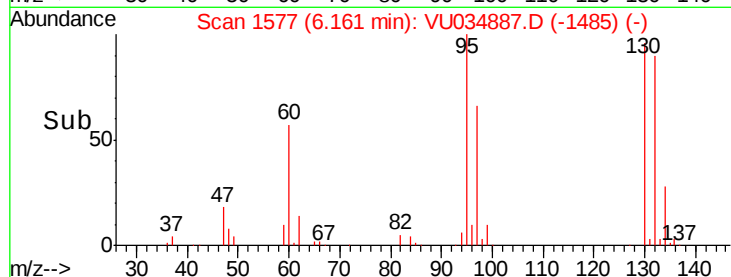
Abundance

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: 102.904 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

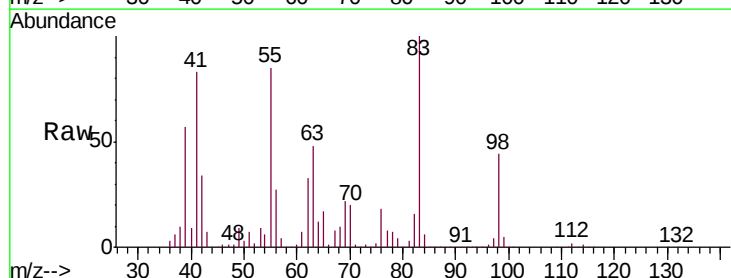
Tgt Ion: 83 Resp: 468193

Ion Ratio Lower Upper

83 100

55 85.4 68.4 102.6

98 44.0 35.3 52.9

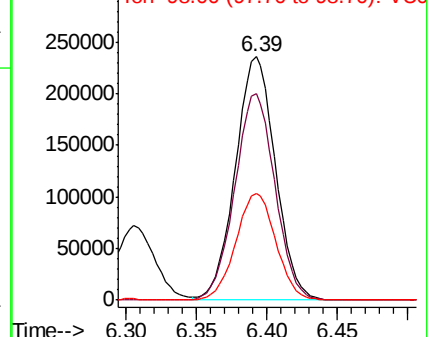
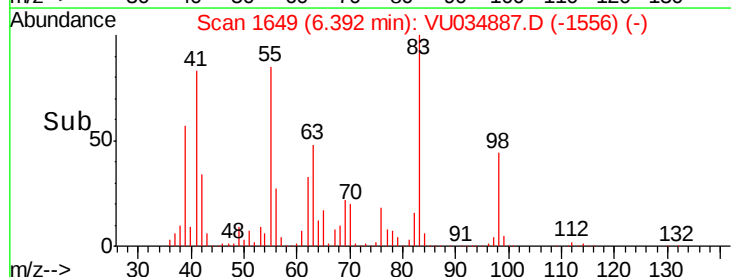


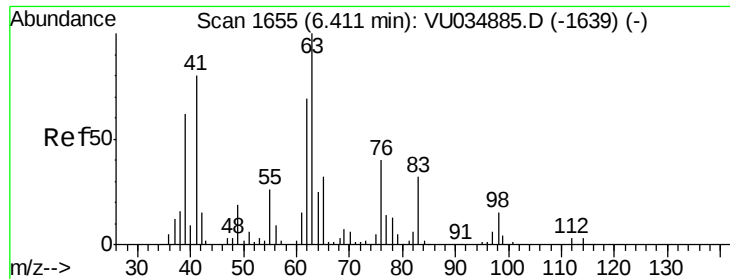
Abundance

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

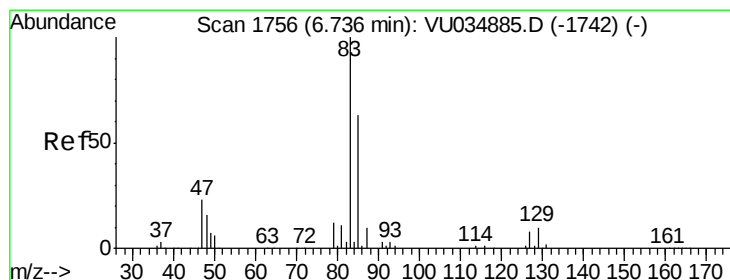
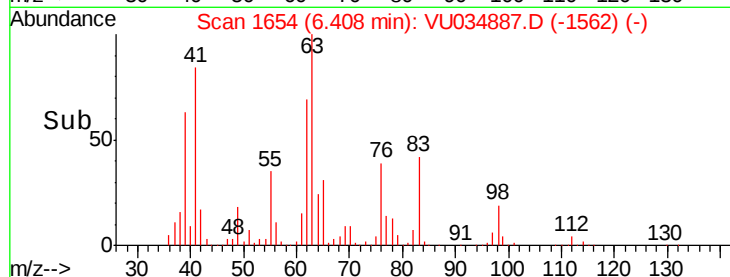
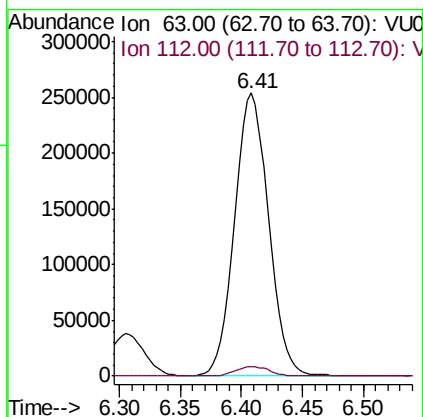
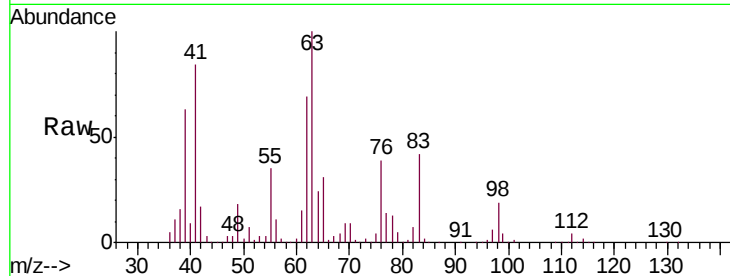




#37
 1,2-Dichloropropane
 Concen: 144.052 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU034887.D
 Acq: 30 Sep 2019 18:52

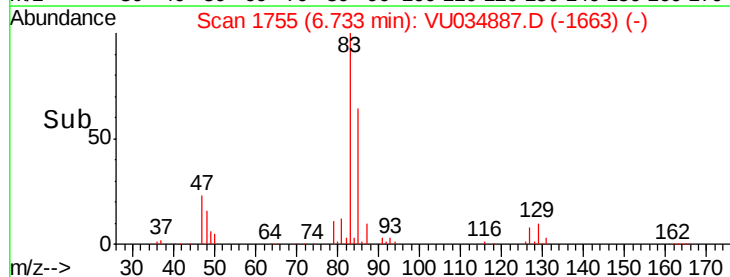
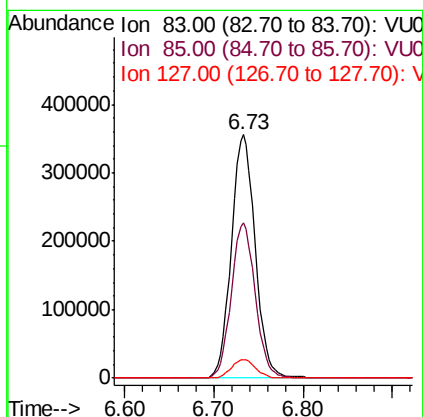
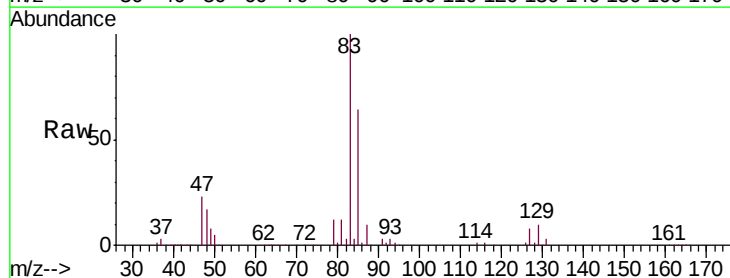
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

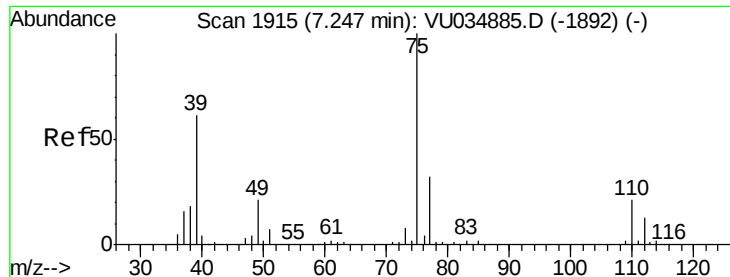
Tgt Ion: 63 Resp: 487600
 Ion Ratio Lower Upper
 63 100
 112 3.5 2.8 4.2



#38
 Bromodichloromethane
 Concen: 158.703 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. -0.00 min
 Lab File: VU034887.D
 Acq: 30 Sep 2019 18:52

Tgt Ion: 83 Resp: 658540
 Ion Ratio Lower Upper
 83 100
 85 64.0 44.4 82.4
 127 7.7 6.6 9.8

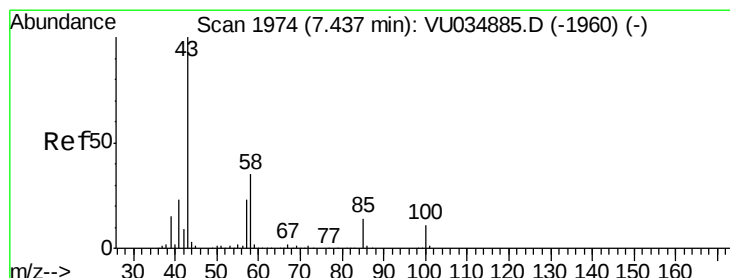
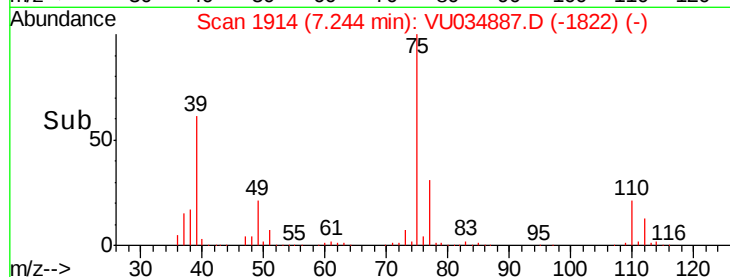
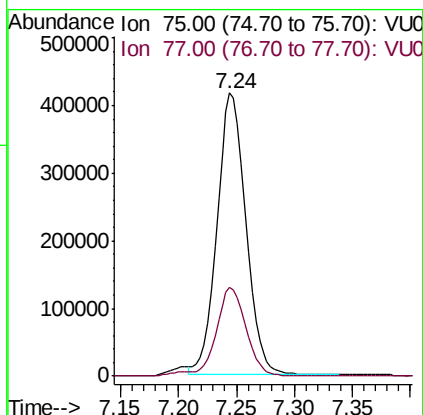
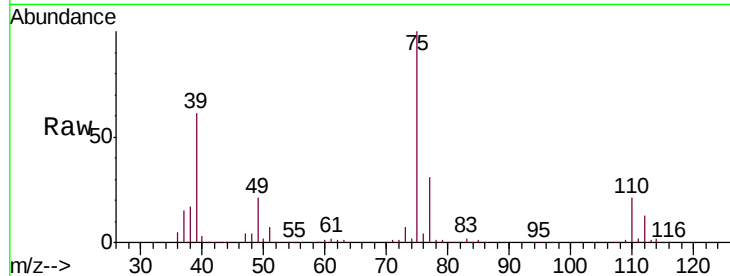




#39
 cis-1,3-Dichloropropene
 Concen: 142.562 ug/L
 RT: 7.24 min Scan# 1914
 Delta R.T. -0.00 min
 Lab File: VU034887.D
 Acq: 30 Sep 2019 18:52

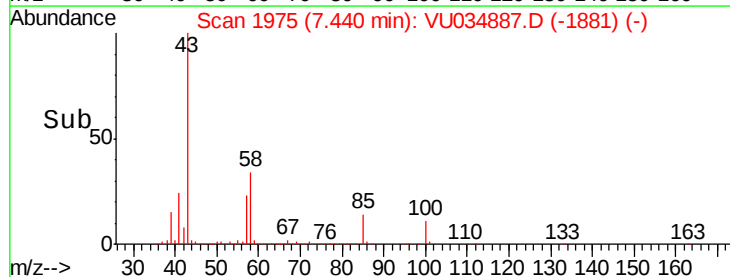
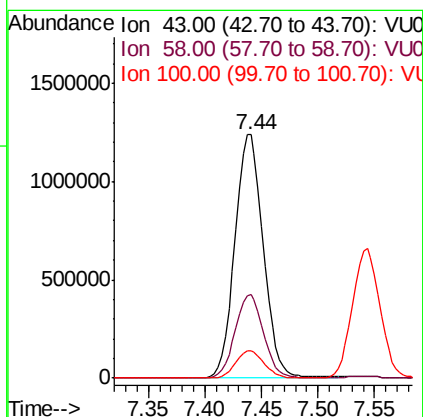
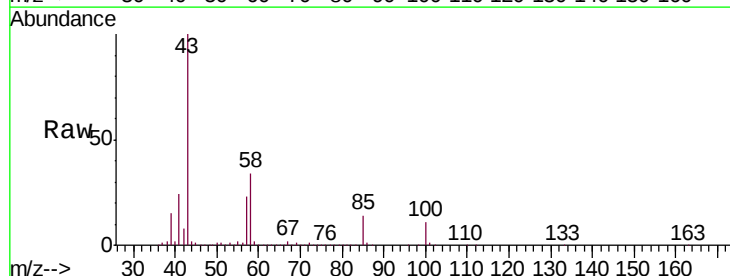
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

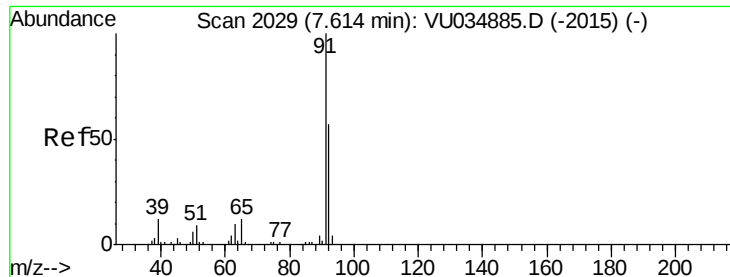
Tgt Ion: 75 Resp: 726456
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.4 41.6



#40
 4-Methyl-2-pentanone
 Concen: 331.029 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU034887.D
 Acq: 30 Sep 2019 18:52

Tgt Ion: 43 Resp: 2166690
 Ion Ratio Lower Upper
 43 100
 58 34.4 27.5 41.3
 100 11.3 9.0 13.6





#42

Toluene

Concen: 132.326 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

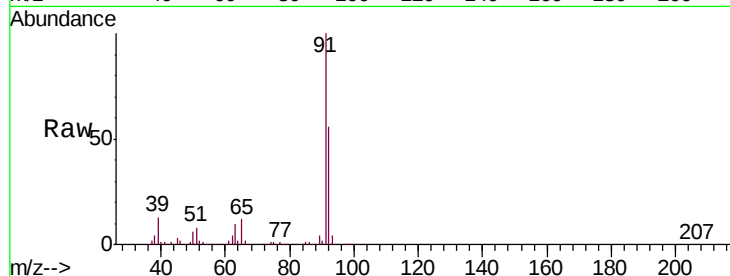
VSTD20036

Tgt Ion: 91 Resp: 1598988

Ion Ratio Lower Upper

91 100

92 56.3 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU034885.D (-2015) (-)

Ion 92.00 (91.70 to 92.70): VU034885.D (-2015) (-)

7.61

1000000

800000

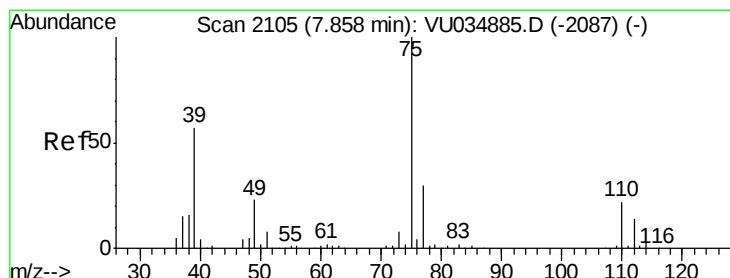
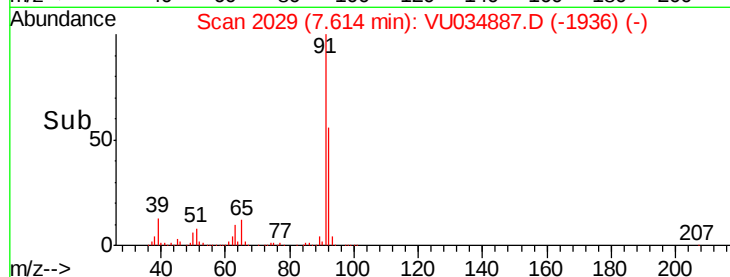
600000

400000

200000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#44

trans-1,3-Dichloropropene

Concen: 157.051 ug/L

RT: 7.86 min Scan# 2104

Delta R.T. -0.00 min

Lab File: VU034887.D

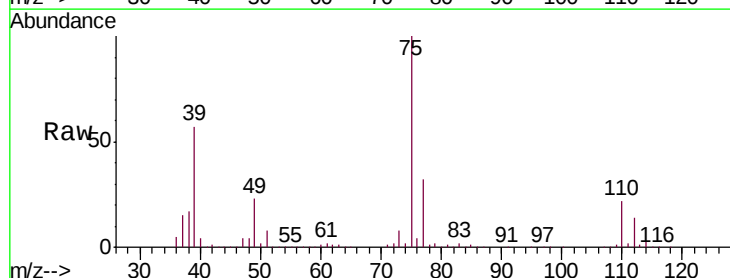
Acq: 30 Sep 2019 18:52

Tgt Ion: 75 Resp: 714911

Ion Ratio Lower Upper

75 100

77 32.3 21.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU034885.D (-2087) (-)

Ion 77.00 (76.70 to 77.70): VU034885.D (-2087) (-)

7.86

500000

400000

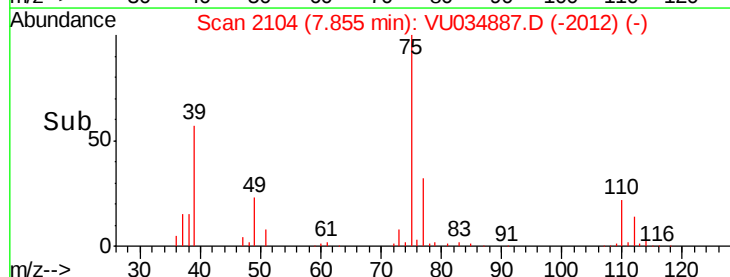
300000

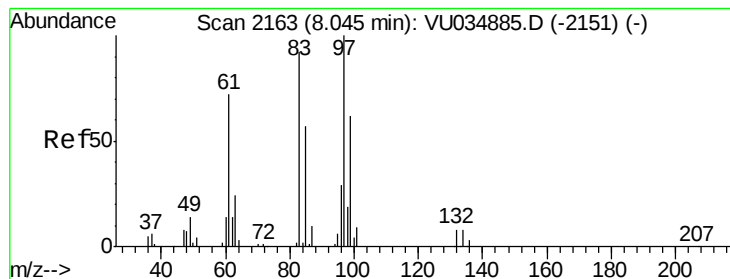
200000

100000

0

Time--> 7.70 7.80 7.90 8.00





#45

1,1,2-Trichloroethane

Concen: 168.000 ug/L

RT: 8.04 min Scan# 2163

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

Tgt Ion: 97 Resp: 468163

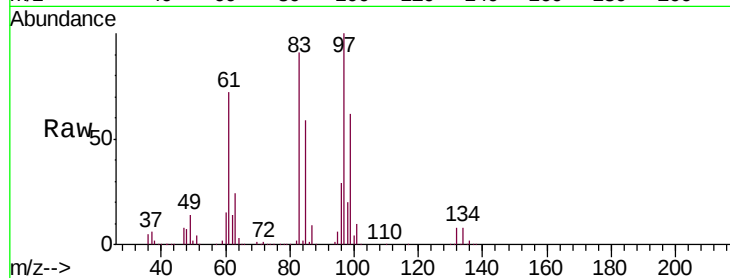
Ion Ratio Lower Upper

97 100

99 62.4 43.3 80.5

83 90.5 64.3 119.5

85 58.9 39.9 74.1

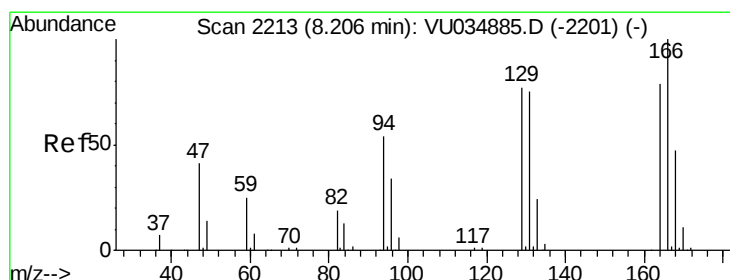
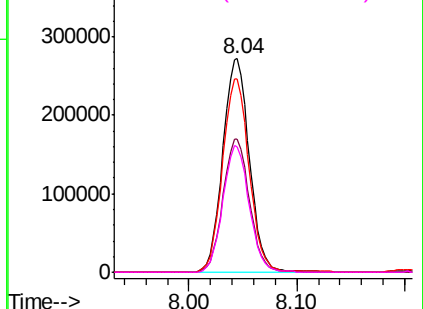
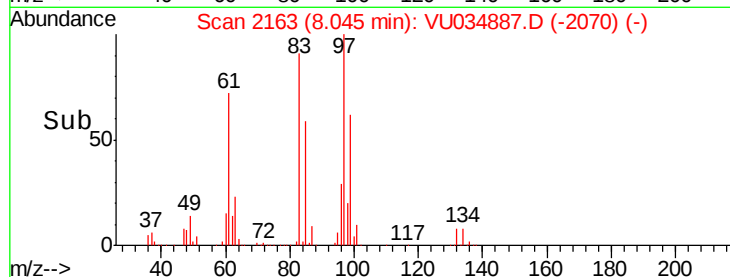


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 124.097 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Tgt Ion: 164 Resp: 239637

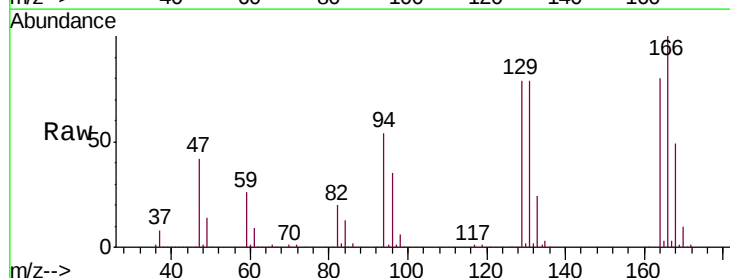
Ion Ratio Lower Upper

164 100

129 98.6 68.3 126.8

131 98.6 66.2 123.0

166 124.6 88.1 163.5

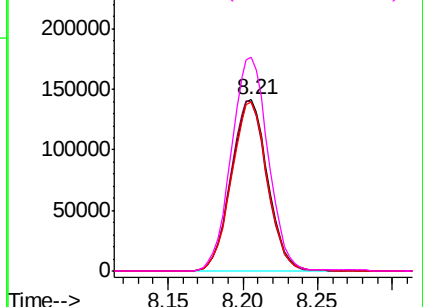
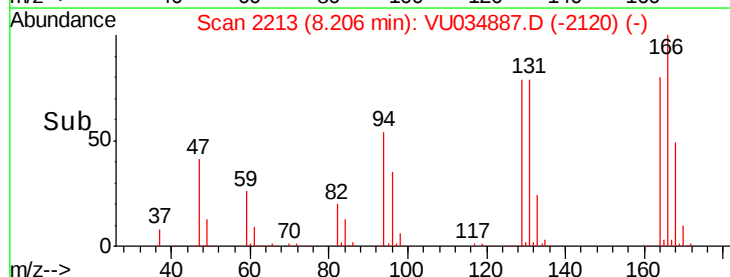


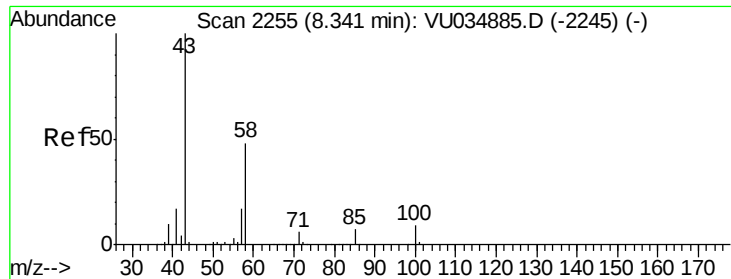
Abundance Ion 164.00 (163.70 to 164.70): V

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

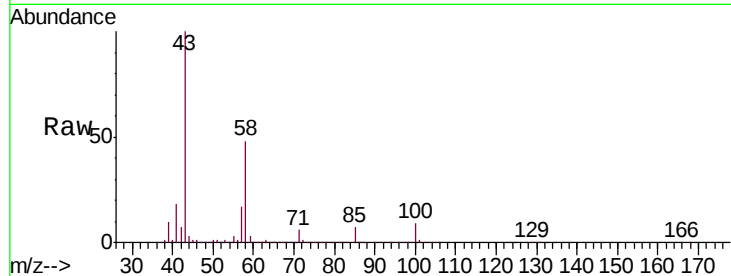




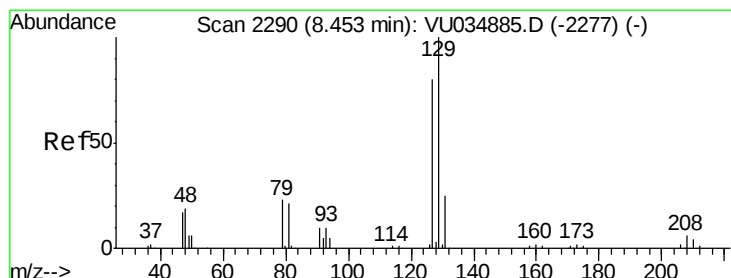
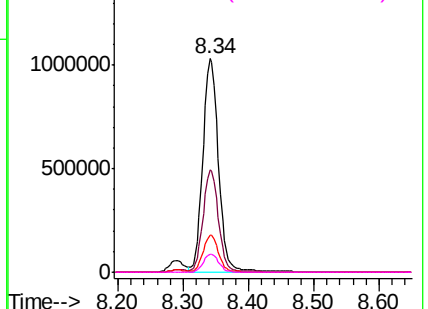
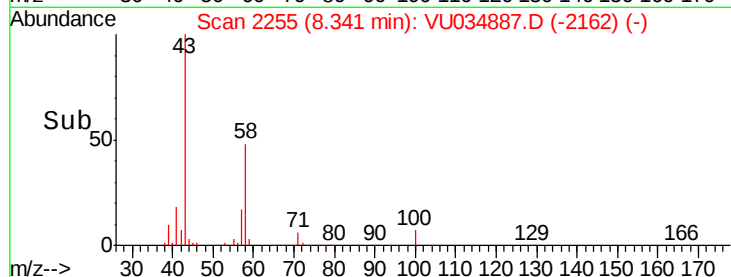
#48
2-Hexanone
Concen: 335.155 ug/L
RT: 8.34 min Scan# 2255
Delta R.T. 0.00 min
Lab File: VU034887.D
Acq: 30 Sep 2019 18:52

Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

Tgt Ion: 43 Resp: 1700032
Ion Ratio Lower Upper
43 100
58 47.0 37.8 56.8
57 16.9 13.4 20.0
100 8.6 7.1 10.7

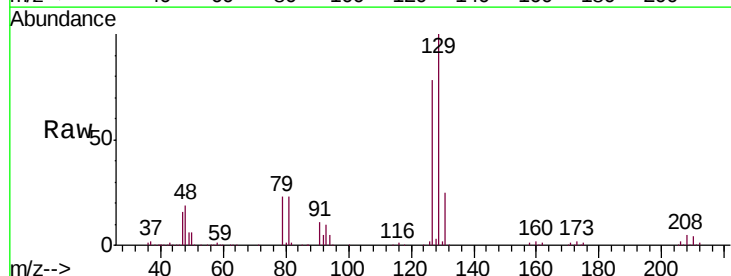


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

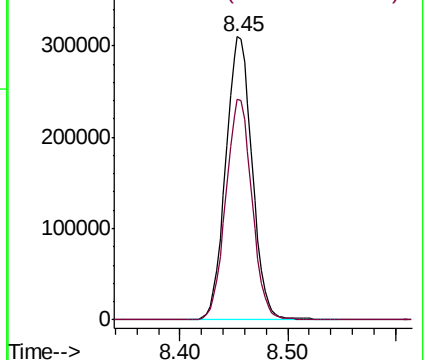
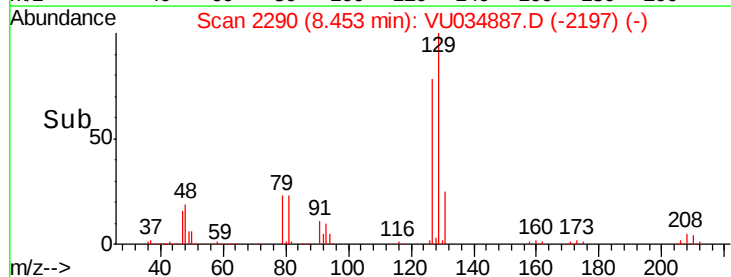


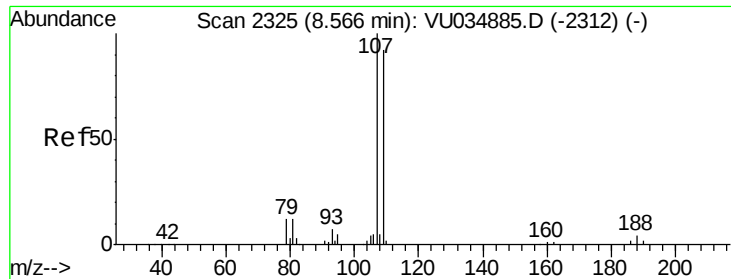
#49
Dibromochloromethane
Concen: 171.866 ug/L
RT: 8.45 min Scan# 2290
Delta R.T. 0.00 min
Lab File: VU034887.D
Acq: 30 Sep 2019 18:52

Tgt Ion: 129 Resp: 529816
Ion Ratio Lower Upper
129 100
127 77.9 55.8 103.6



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

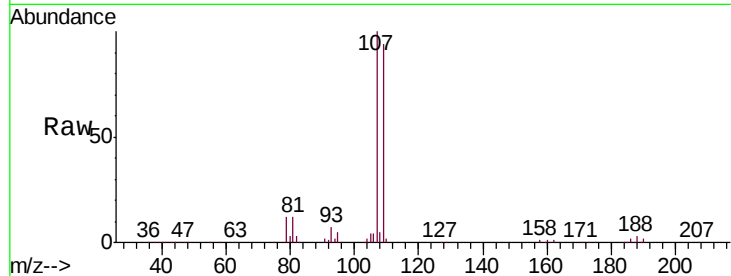




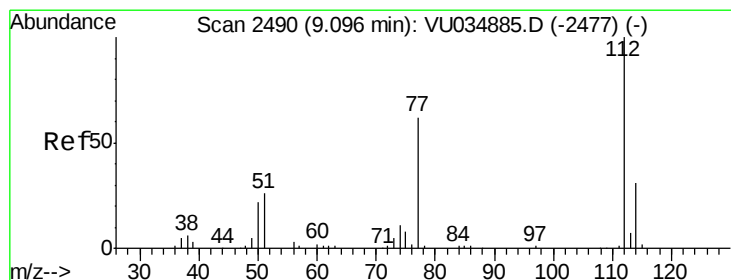
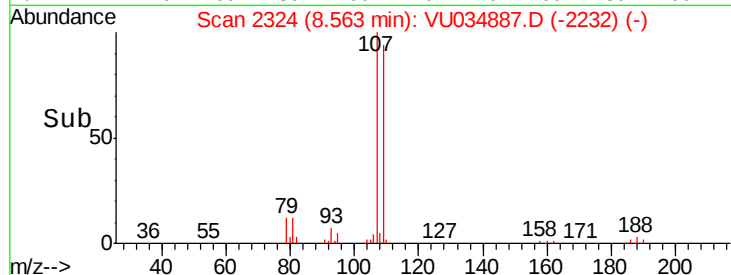
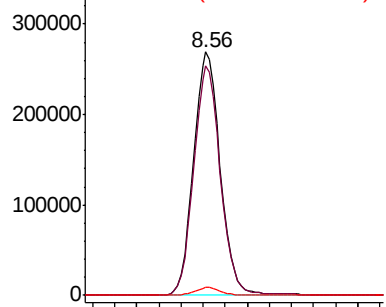
#50
 1,2-Dibromoethane
 Concen: 154.578 ug/L
 RT: 8.56 min Scan# 2324
 Delta R.T. -0.00 min
 Lab File: VU034887.D
 Acq: 30 Sep 2019 18:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

Tgt Ion:107 Resp: 452987
 Ion Ratio Lower Upper
 107 100
 109 94.3 64.6 120.0
 188 3.2 2.8 4.2

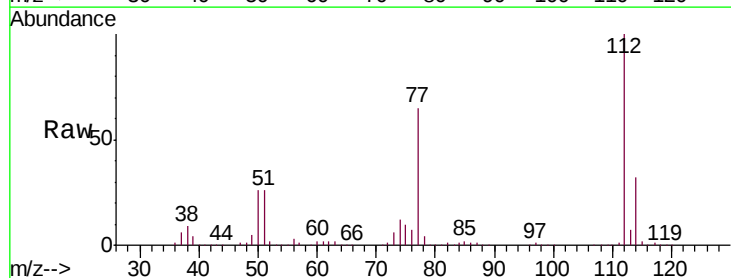


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

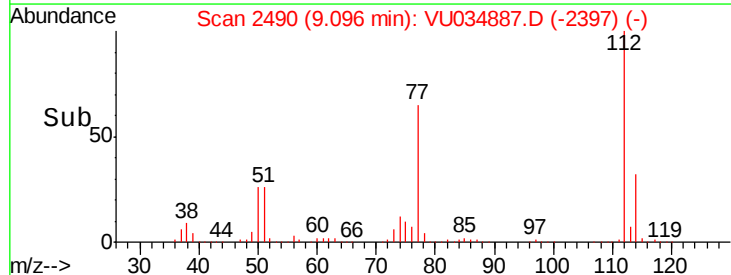
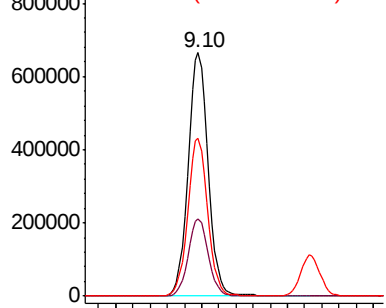


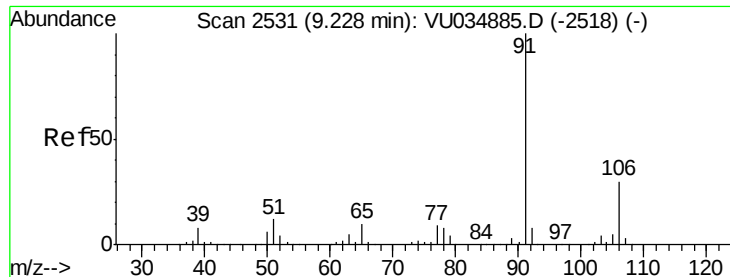
#51
 Chlorobenzene
 Concen: 143.897 ug/L
 RT: 9.10 min Scan# 2490
 Delta R.T. 0.00 min
 Lab File: VU034887.D
 Acq: 30 Sep 2019 18:52

Tgt Ion:112 Resp: 1074653
 Ion Ratio Lower Upper
 112 100
 114 31.9 21.7 40.3
 77 65.0 50.1 75.1



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 141.073 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

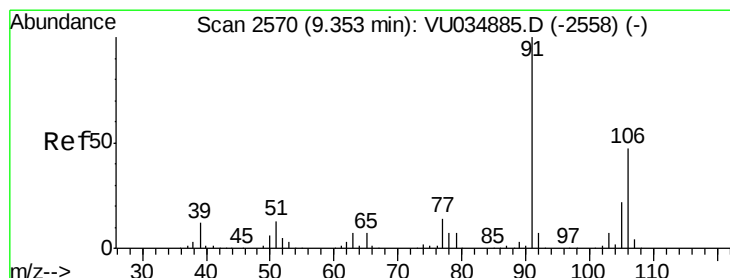
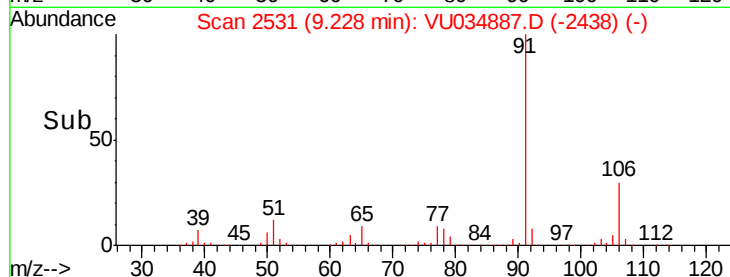
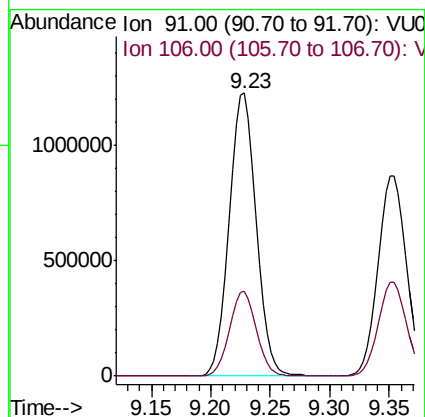
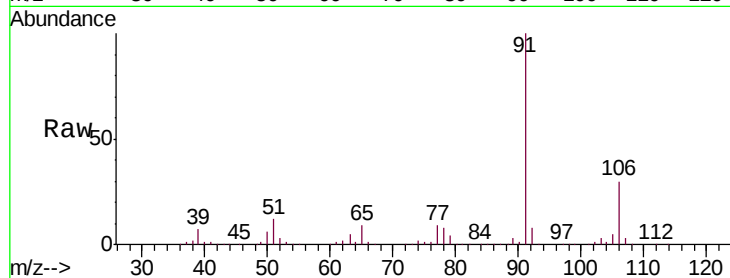
VSTD20036

Tgt Ion: 91 Resp: 1935466

Ion Ratio Lower Upper

91 100

106 29.8 20.9 38.9



#53

m,p-Xylene

Concen: 139.511 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034887.D

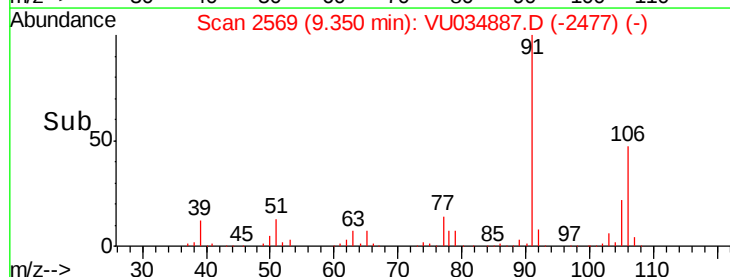
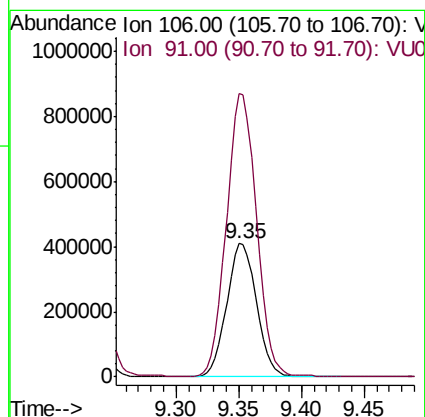
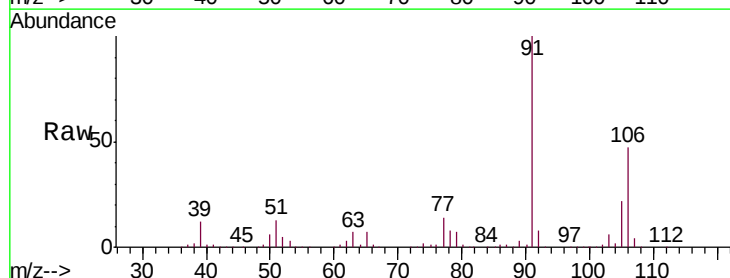
Acq: 30 Sep 2019 18:52

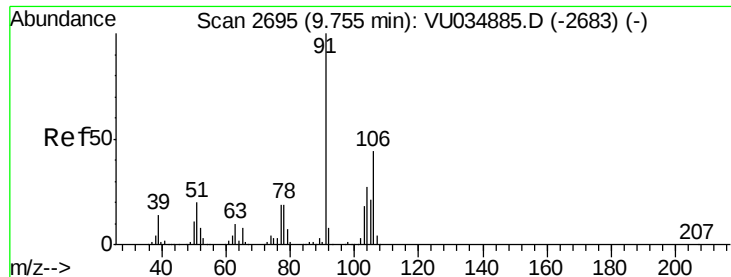
Tgt Ion: 106 Resp: 674076

Ion Ratio Lower Upper

106 100

91 212.8 150.1 278.9





#54

o-xylene

Concen: 148.610 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

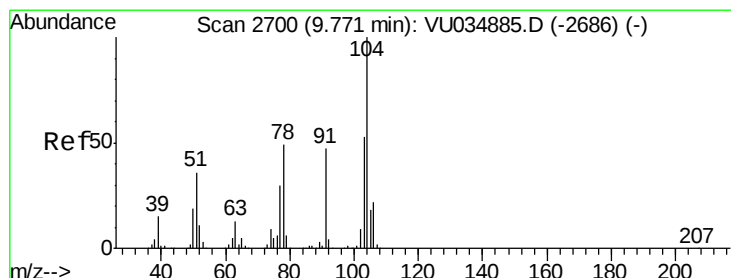
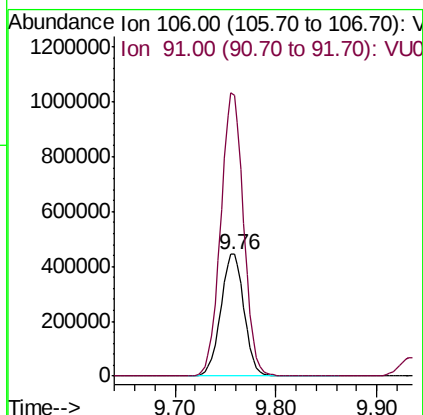
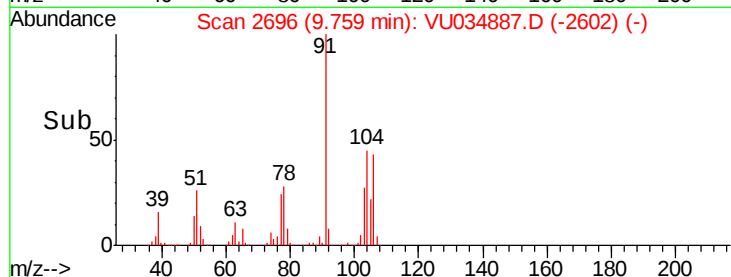
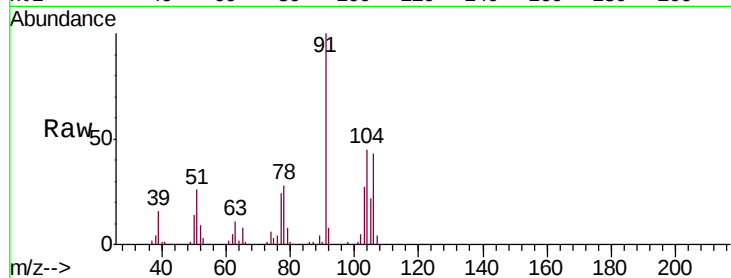
VSTD20036

Tgt Ion:106 Resp: 717602

Ion Ratio Lower Upper

106 100

91 230.5 157.8 293.0



#55

Styrene

Concen: 160.416 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VU034887.D

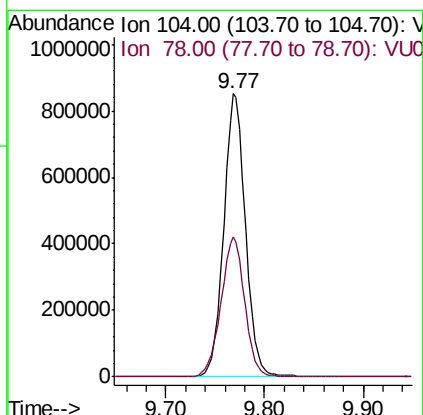
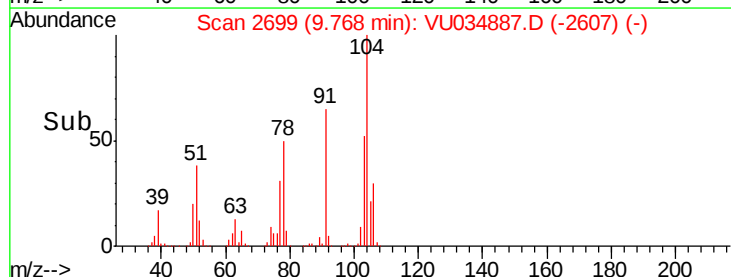
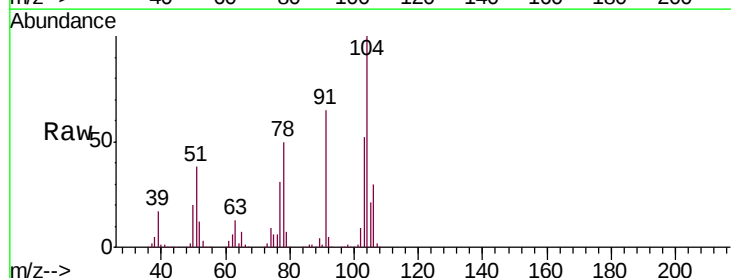
Acq: 30 Sep 2019 18:52

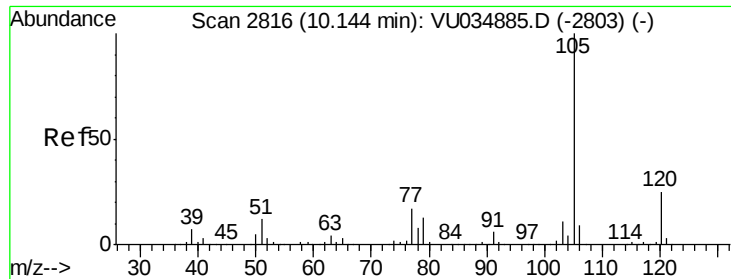
Tgt Ion:104 Resp: 1318270

Ion Ratio Lower Upper

104 100

78 49.6 34.6 64.2





#56

Isopropylbenzene

Concen: 153.768 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

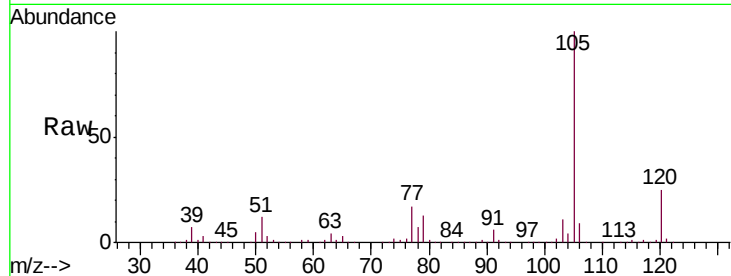
Tgt Ion:105 Resp: 2015809

Ion Ratio Lower Upper

105 100

120 25.2 20.2 30.4

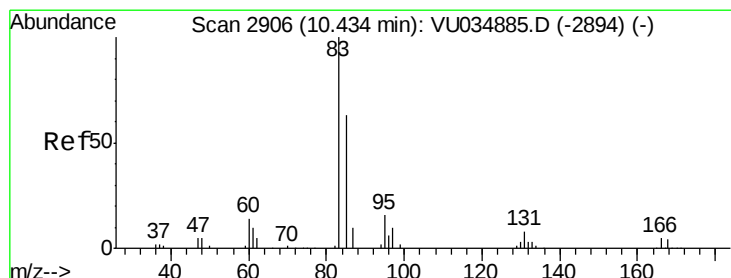
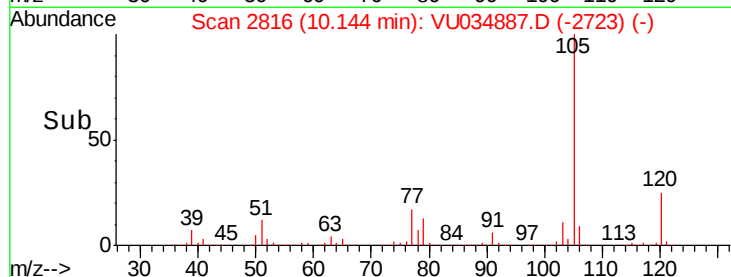
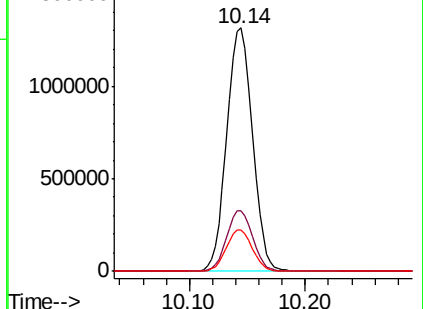
77 17.2 13.7 20.5



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: 180.815 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

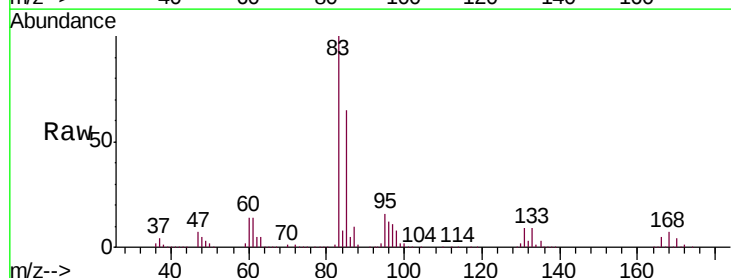
Tgt Ion: 83 Resp: 973982

Ion Ratio Lower Upper

83 100

85 64.6 44.6 82.8

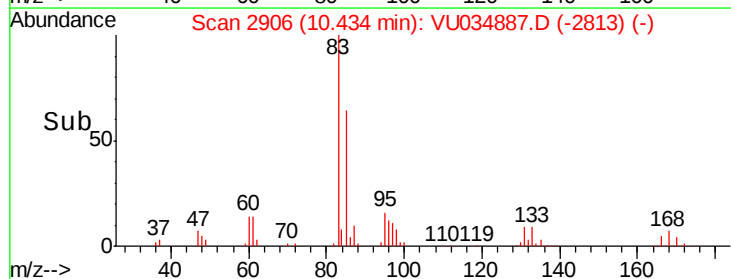
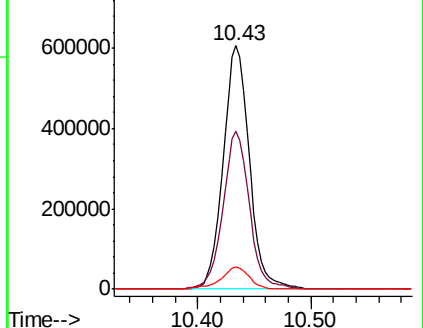
131 9.1 6.8 10.2

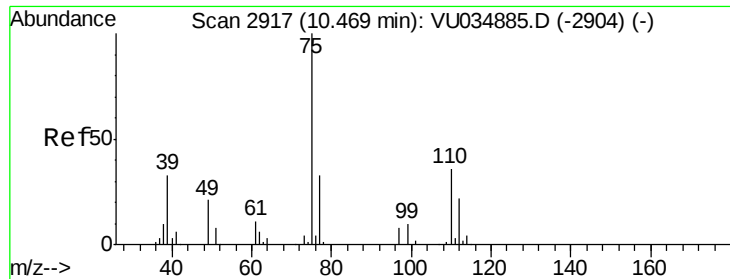


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 175.764 ug/L

RT: 10.47 min Scan# 2917

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

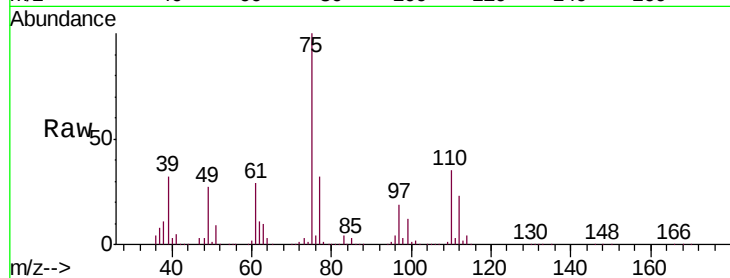
VSTD20036

Tgt Ion: 75 Resp: 766809

Ion Ratio Lower Upper

75 100

77 32.0 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VU034885.D (-2904) (-)

Ion 77.00 (76.70 to 77.70): VU034885.D (-2904) (-)

10.47

500000

400000

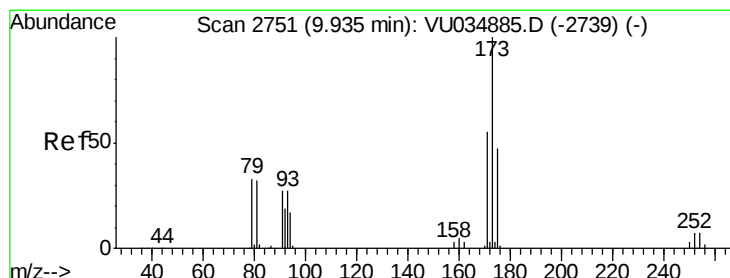
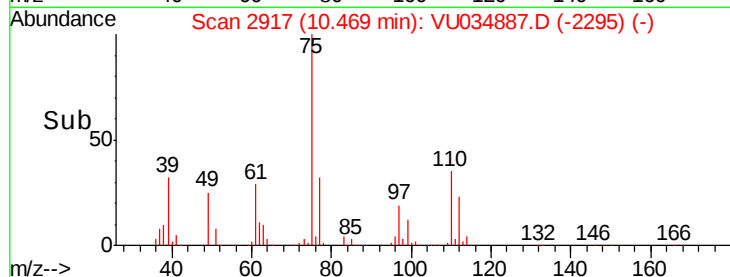
300000

200000

100000

0

Time-->



#61

Bromoform

Concen: 182.002 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

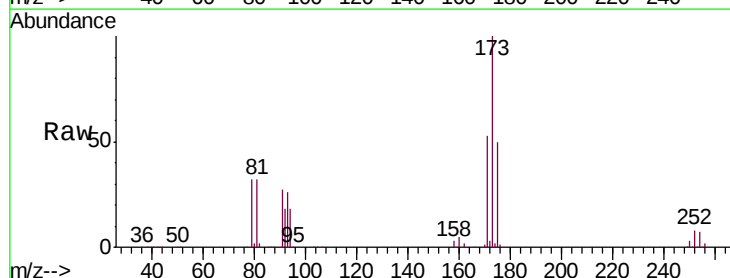
Tgt Ion: 173 Resp: 413839

Ion Ratio Lower Upper

173 100

175 49.1 37.7 56.5

254 6.9 5.5 8.3



Abundance Ion 173.00 (172.70 to 173.70): VU034885.D (-2739) (-)

Ion 175.00 (174.70 to 175.70): VU034885.D (-2739) (-)

Ion 254.00 (253.70 to 254.70): VU034885.D (-2739) (-)

9.94

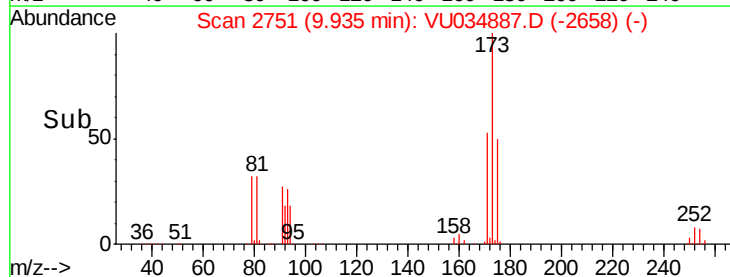
300000

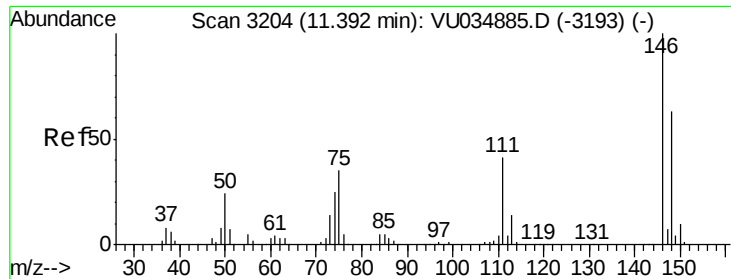
200000

100000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 160.684 ug/L

RT: 11.39 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

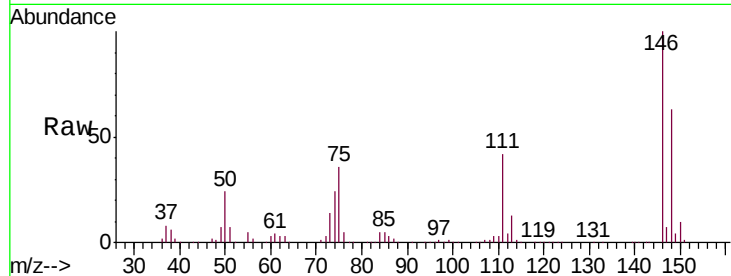
Tgt Ion:146 Resp: 916379

Ion Ratio Lower Upper

146 100

111 41.5 28.9 53.7

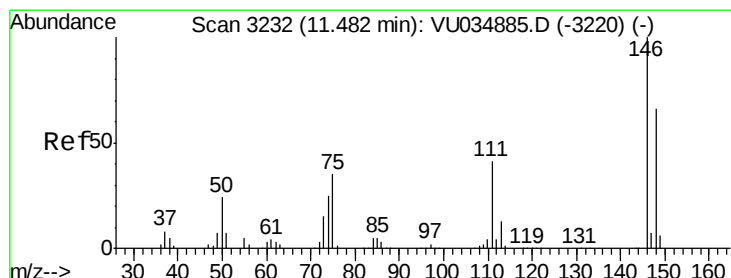
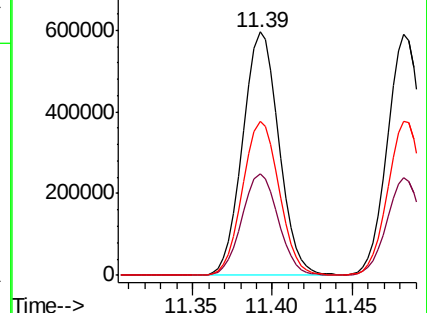
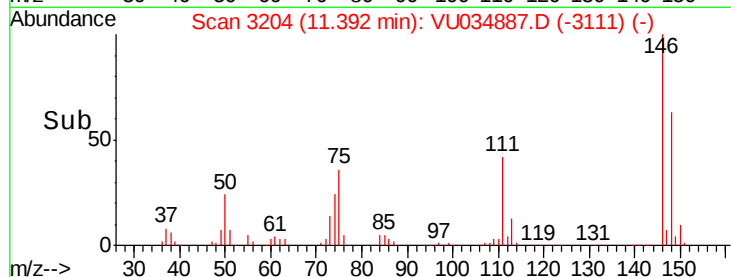
148 63.0 44.2 82.2



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: 158.790 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

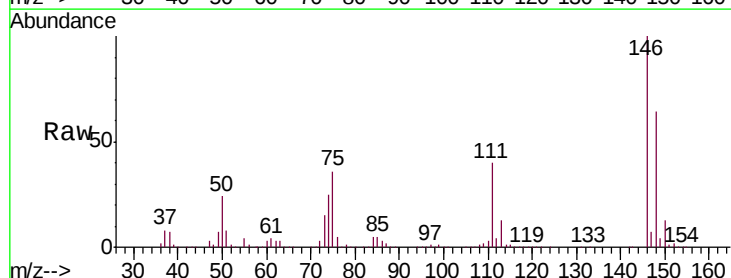
Tgt Ion:146 Resp: 920907

Ion Ratio Lower Upper

146 100

111 40.3 29.2 54.2

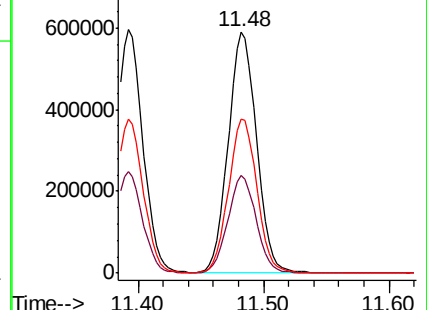
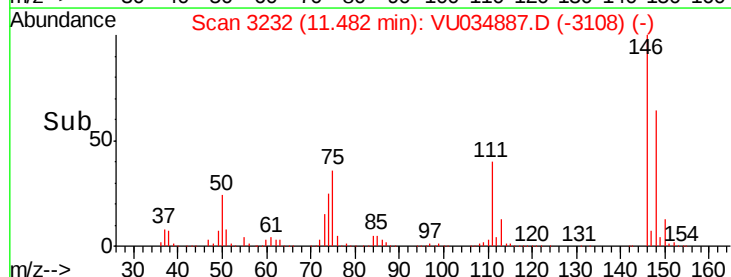
148 64.1 46.1 85.5

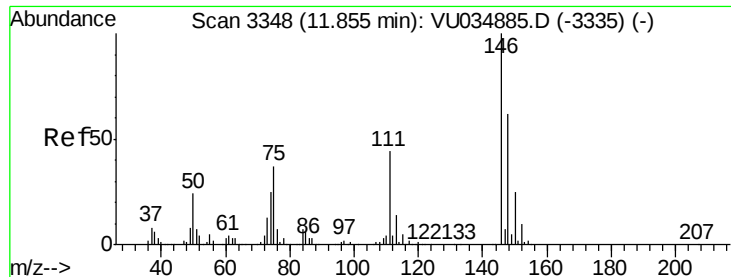


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 165.338 ug/L

RT: 11.86 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

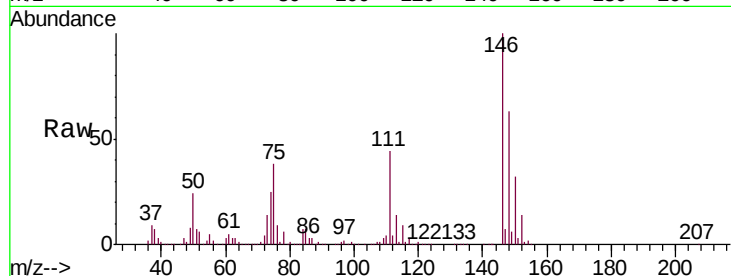
Tgt Ion:146 Resp: 963182

Ion Ratio Lower Upper

146 100

111 43.7 34.9 52.3

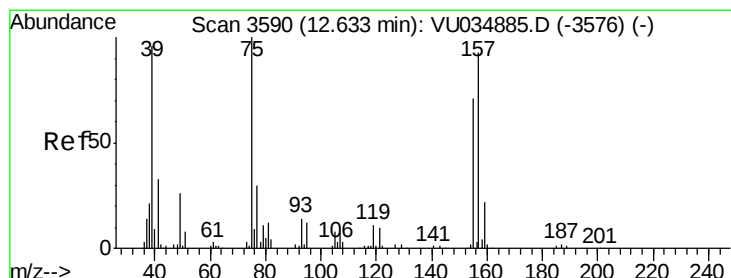
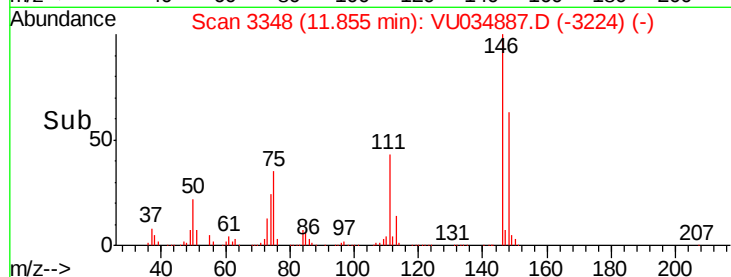
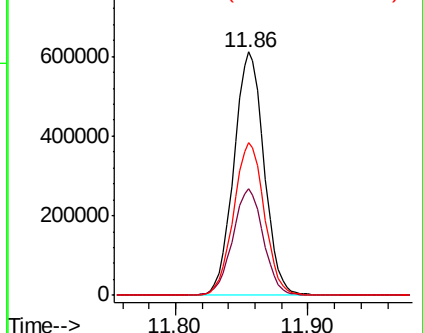
148 62.8 50.0 75.0



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: 191.880 ug/L

RT: 12.63 min Scan# 3590

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

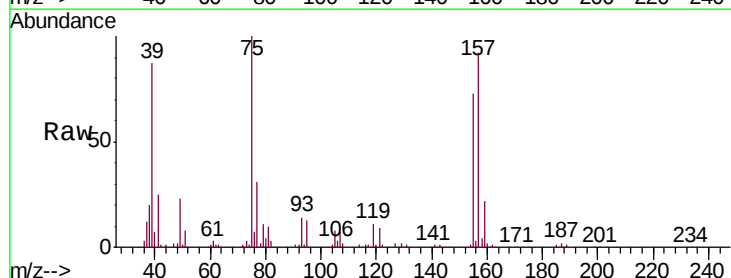
Tgt Ion: 75 Resp: 237665

Ion Ratio Lower Upper

75 100

155 73.1 57.0 85.6

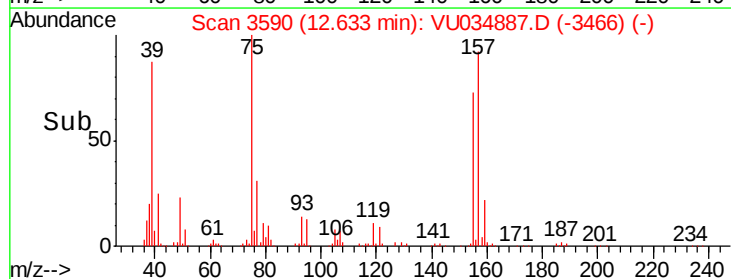
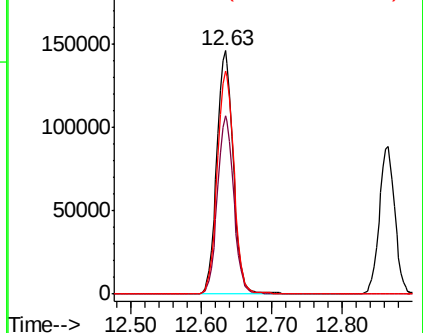
157 91.9 74.2 111.4

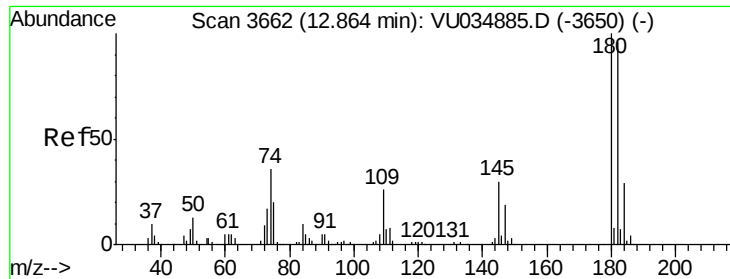


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

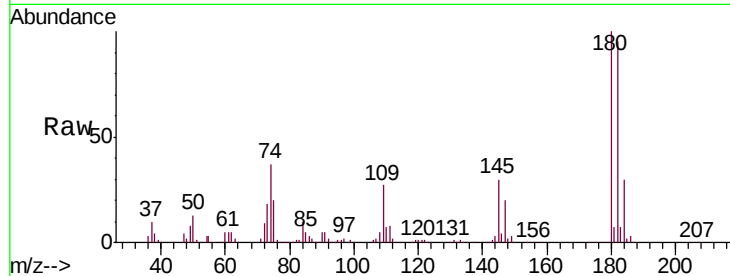




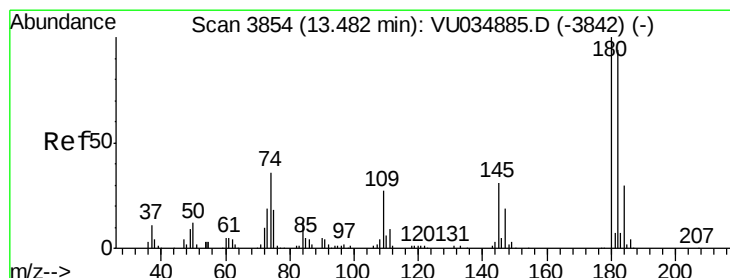
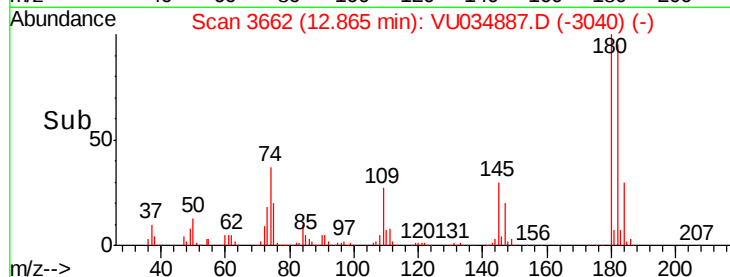
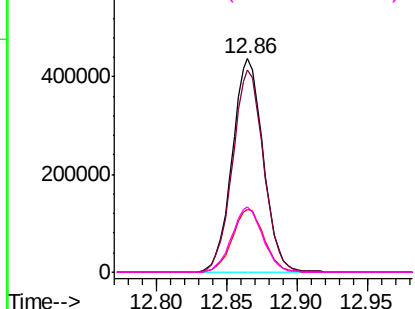
#67
 1,3,5-Trichlorobenzene
 Concen: 173.313 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VU034887.D
 Acq: 30 Sep 2019 18:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

Tgt Ion:180 Resp: 671581
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.2 114.2
 184 30.2 23.8 35.6
 145 30.7 23.8 35.6

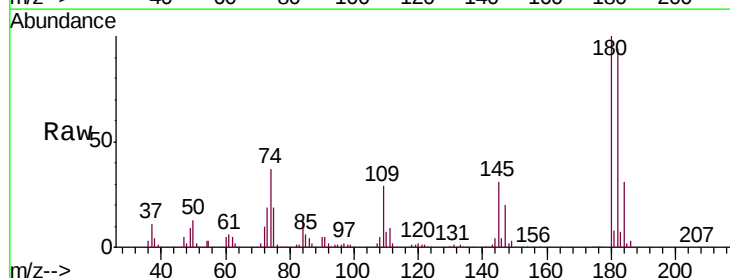


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

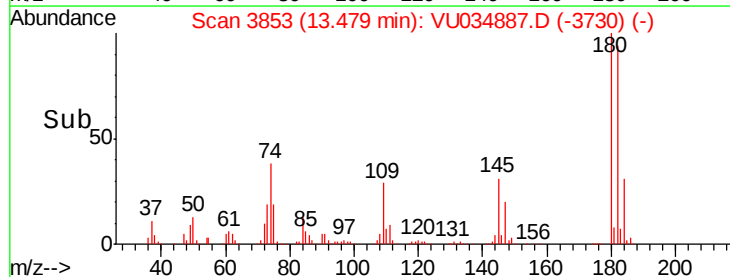
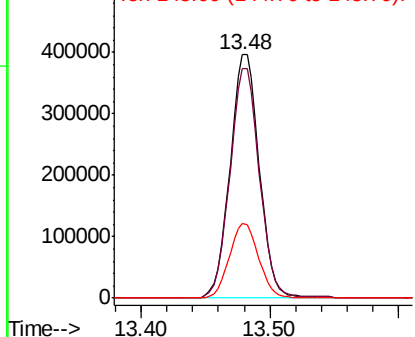


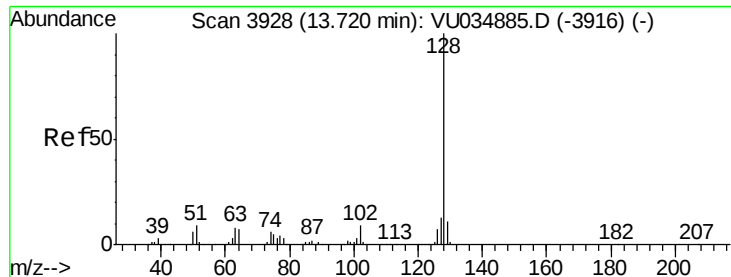
#68
 1,2,4-trichlorobenzene
 Concen: 205.949 ug/L
 RT: 13.48 min Scan# 3853
 Delta R.T. -0.00 min
 Lab File: VU034887.D
 Acq: 30 Sep 2019 18:52

Tgt Ion:180 Resp: 623779
 Ion Ratio Lower Upper
 180 100
 182 95.2 73.4 110.2
 145 30.7 24.4 36.6



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: 218.095 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

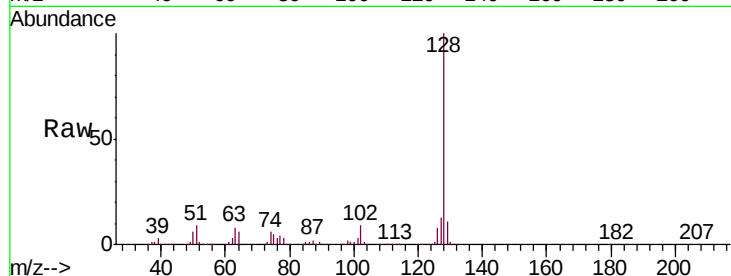
Tgt Ion:128 Resp: 2278565

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

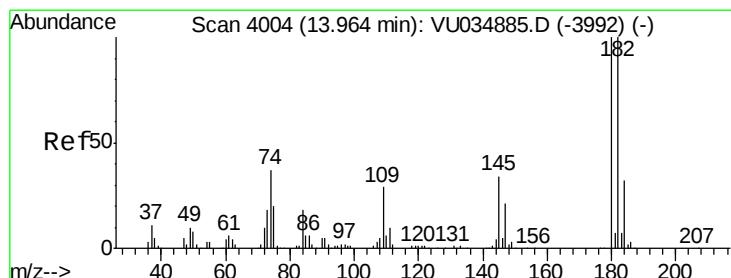
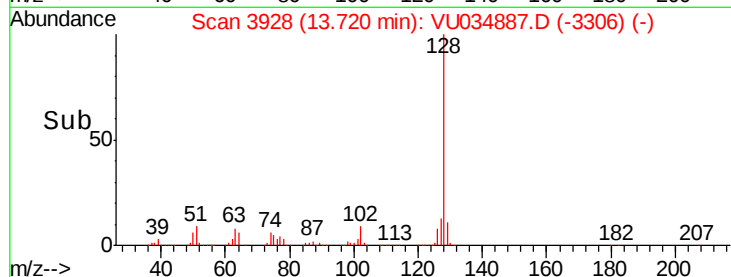
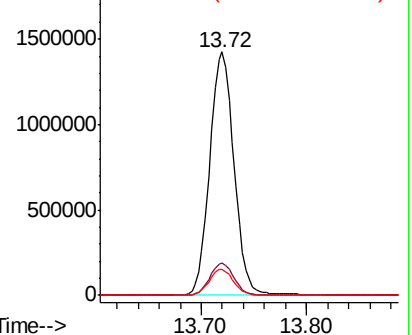
129 10.7 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 200.104 ug/L

RT: 13.96 min Scan# 4004

Delta R.T. 0.00 min

Lab File: VU034887.D

Acq: 30 Sep 2019 18:52

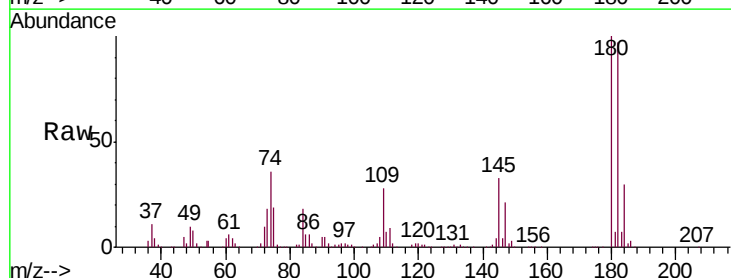
Tgt Ion:180 Resp: 631179

Ion Ratio Lower Upper

180 100

182 95.1 77.7 116.5

145 32.4 26.0 39.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

