

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110719\
 Data File : VU035660.D
 Acq On : 07 Nov 2019 15:23
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

Quant Time: Nov 08 06:11:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Nov 07 11:27:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	732081	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	713113	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	330783	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	272724	46.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.26%
7) Chloroethane-d5	1.93	69	221621	46.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.86%
11) 1,1-Dichloroethene-d2	2.60	63	429206	46.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.36%
21) 2-Butanone-d5	4.69	46	319330	92.46	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.46%
24) Chloroform-d	5.11	84	433074	47.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.86%
26) 1,2-Dichloroethane-d4	5.75	65	255956	45.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.52%
32) Benzene-d6	5.77	84	911981	49.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.12%
36) 1,2-Dichloropropane-d6	6.73	67	289704	48.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.12%
41) Toluene-d8	7.93	98	864582	49.31	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.62%
43) trans-1,3-Dichloropropene-	8.21	79	135820	48.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.82%
47) 2-Hexanone-d5	8.67	63	237233	102.68	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.68%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	410457	47.88	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.76%
64) 1,2-Dichlorobenzene-d4	12.22	152	311259	46.65	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	279512	48.957	ug/L 99
3) Chloromethane	1.54	50	312499	50.223	ug/L 100
5) Vinyl chloride	1.62	62	326638	48.789	ug/L 100
6) Bromomethane	1.87	94	196972	58.085	ug/L 97
8) Chloroethane	1.95	64	190917	49.030	ug/L 97
9) Trichlorofluoromethane	2.16	101	402685	50.776	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	235548	51.736	ug/L 99
12) 1,1-Dichloroethene	2.61	96	223623	50.005	ug/L 94
13) Acetone	2.66	43	309085	101.715	ug/L 100
14) Carbon disulfide	2.83	76	684430	49.677	ug/L 100
15) Methyl Acetate	2.99	43	254305	46.204	ug/L 98
16) Methylene chloride	3.08	84	264364	48.449	ug/L 97
17) trans-1,2-Dichloroethene	3.39	96	235287	49.961	ug/L 99
18) Methyl tert-butyl Ether	3.42	73	708535	49.763	ug/L 99
19) 1,1-Dichloroethane	3.92	63	440285	48.466	ug/L 99
20) cis-1,2-Dichloroethene	4.72	96	262598	49.437	ug/L 95
22) 2-Butanone	4.77	43	389103	97.000	ug/L 94

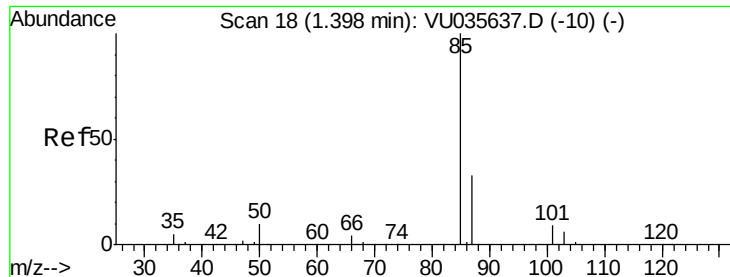
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110719\
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 Quant Title : VOC Analysis
 QLast Update : Thu Nov 07 11:27:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	142651	50.822	ug/L	95
25) Chloroform	5.14	83	450989	48.881	ug/L	99
27) 1,2-Dichloroethane	5.84	62	322822	47.893	ug/L	99
29) Cyclohexane	5.43	56	385319	52.975	ug/L	99
30) 1,1,1-Trichloroethane	5.36	97	371682	49.589	ug/L	99
31) Carbon tetrachloride	5.57	117	338612	50.808	ug/L	98
33) Benzene	5.82	78	1007433	50.267	ug/L	100
34) Trichloroethene	6.58	95	253931	49.838	ug/L	97
35) Methylcyclohexane	6.80	83	391324	52.883	ug/L	98
37) 1,2-Dichloropropane	6.83	63	266151	49.591	ug/L	100
38) Bromodichloromethane	7.14	83	326653	47.883	ug/L	99
39) cis-1,3-Dichloropropene	7.65	75	412610	51.722	ug/L	99
40) 4-Methyl-2-pentanone	7.84	43	654266	91.122	ug/L	97
42) Toluene	8.00	91	1104378	52.576	ug/L	98
44) trans-1,3-Dichloropropene	8.24	75	365581	49.994	ug/L	100
45) 1,1,2-Trichloroethane	8.43	97	256183	49.800	ug/L	99
46) Tetrachloroethene	8.58	164	226501	53.165	ug/L	98
48) 2-Hexanone	8.73	43	490591	84.022	ug/L	99
49) Dibromochloromethane	8.84	129	286110	49.319	ug/L	97
50) 1,2-Dibromoethane	8.96	107	277942	50.641	ug/L	99
51) Chlorobenzene	9.48	112	711735	50.756	ug/L	98
52) Ethylbenzene	9.60	91	1160092	51.661	ug/L	98
53) m,p-Xylene	9.72	106	458664	54.433	ug/L	94
54) o-xylene	10.13	106	445575	54.103	ug/L	99
55) Styrene	10.14	104	739392	54.097	ug/L	96
56) Isopropylbenzene	10.51	105	1108872	53.579	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	426978	48.187	ug/L	100
59) 1,2,3-Trichloropropane	10.85	75	333127	47.603	ug/L	100
61) Bromoform	10.32	173	225924	44.769	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	515403	49.391	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	508082	47.929	ug/L	99
65) 1,2-Dichlorobenzene	12.24	146	509388	47.949	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	68870	41.812	ug/L	94
67) 1,3,5-Trichlorobenzene	13.24	180	295667	49.044	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	164458	40.724	ug/L	99
69) Naphthalene	14.11	128	362198	34.967	ug/L	100
70) 1,2,3-Trichlorobenzene	14.35	180	172459	39.635	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 48.957 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

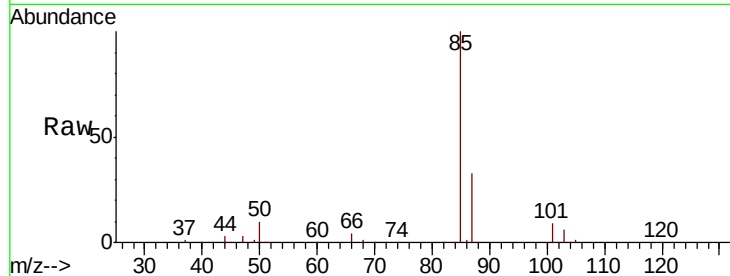
VSTD05039

Tot Ion: 85 Resp: 279512

Ion Ratio Lower Upper

85 100

87 32.6 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU035660.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU035660.D (-1) (-)

1.40

250000

200000

150000

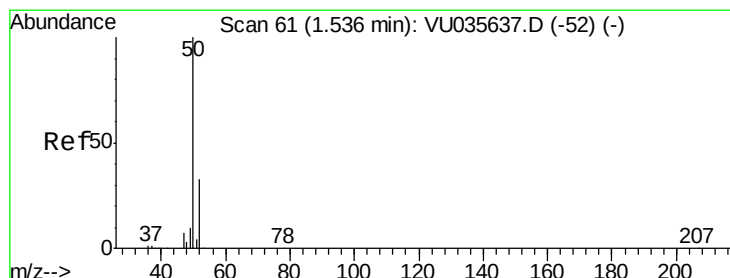
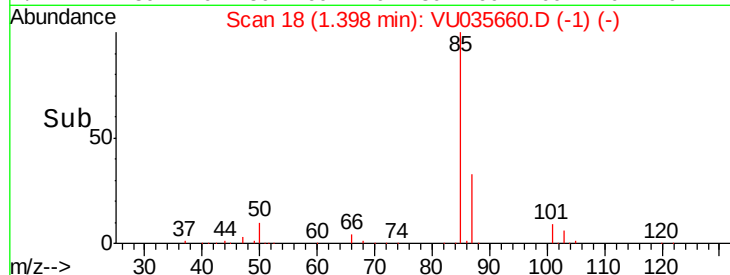
100000

50000

0

1.35 1.40 1.45 1.50

Time-->



#3

Chloromethane

Concen: 50.223 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU035660.D

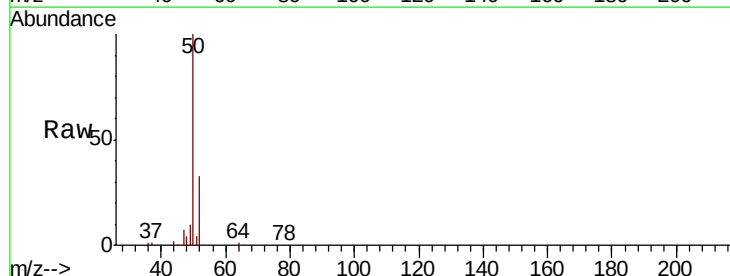
Acq: 07 Nov 2019 15:23

Tgt Ion: 50 Resp: 312499

Ion Ratio Lower Upper

50 100

52 32.7 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU035660.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU035660.D (-1) (-)

1.54

300000

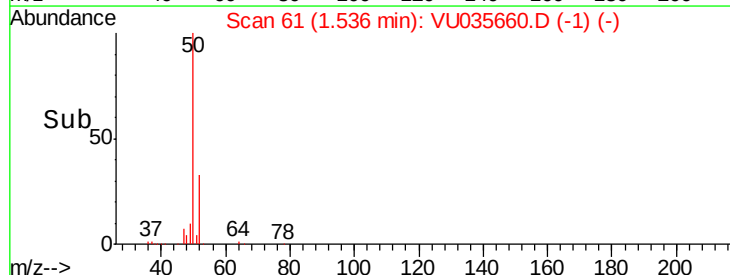
200000

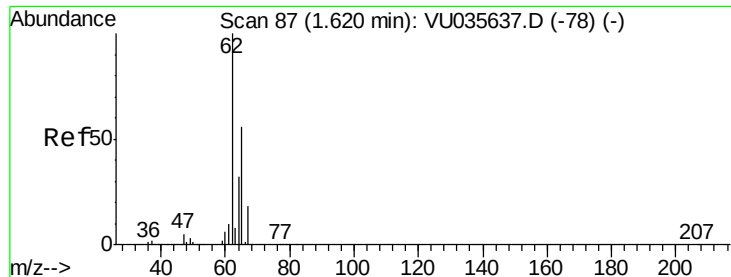
100000

0

1.50 1.55 1.60

Time-->





#5

Vinyl chloride

Concen: 48.789 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

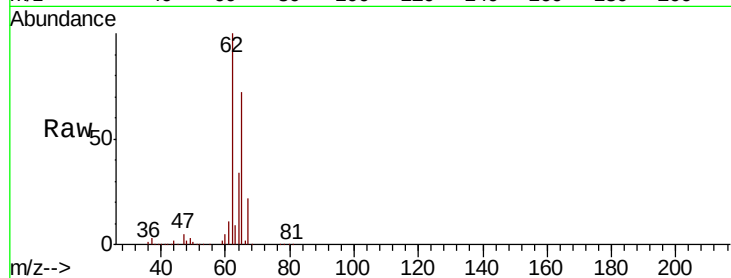
VSTD05039

Tot Ion: 62 Resp: 326638

Ion Ratio Lower Upper

62 100

64 34.0 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU035637.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU035637.D (-78) (-)

1.62

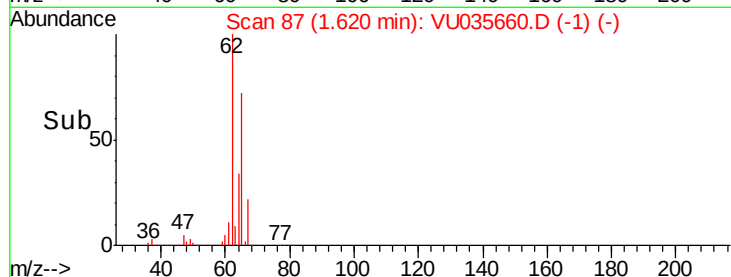
300000

200000

100000

0

Time-->



Abundance Ion 62.00 (61.70 to 62.70): VU035660.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU035660.D (-1) (-)

1.62

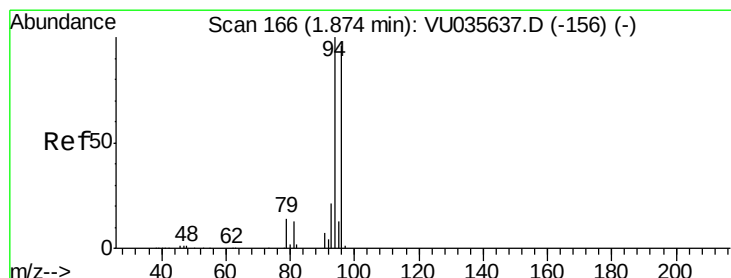
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 58.085 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035660.D

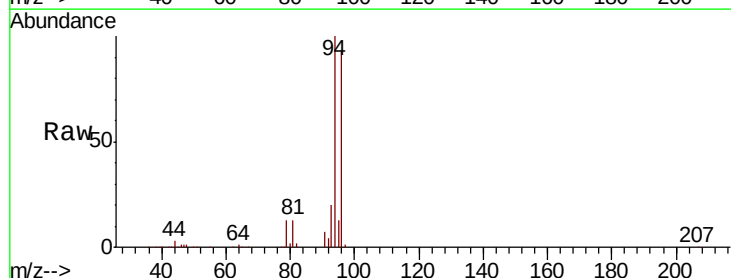
Acq: 07 Nov 2019 15:23

Tgt Ion: 94 Resp: 196972

Ion Ratio Lower Upper

94 100

96 93.3 67.5 125.4



Abundance Ion 94.00 (93.70 to 94.70): VU035637.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU035637.D (-156) (-)

1.87

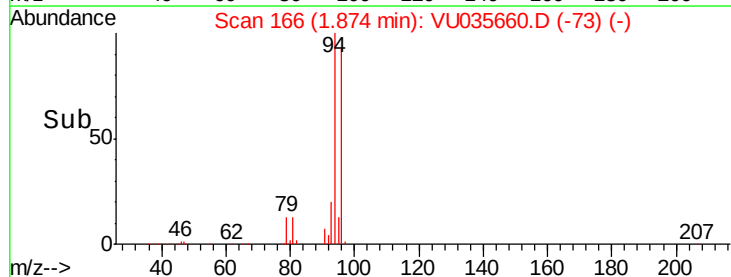
150000

100000

50000

0

Time-->



Abundance Ion 94.00 (93.70 to 94.70): VU035660.D (-73) (-)

Ion 96.00 (95.70 to 96.70): VU035660.D (-73) (-)

1.87

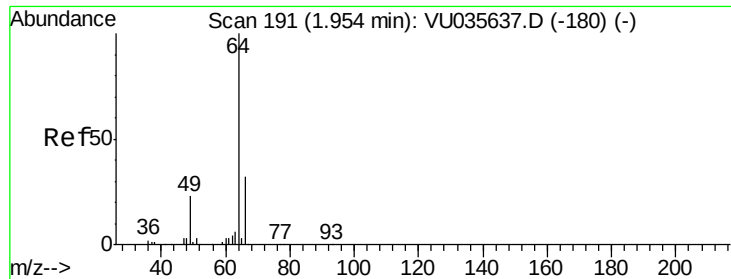
150000

100000

50000

0

Time-->



#8

Chloroethane

Concen: 49.030 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

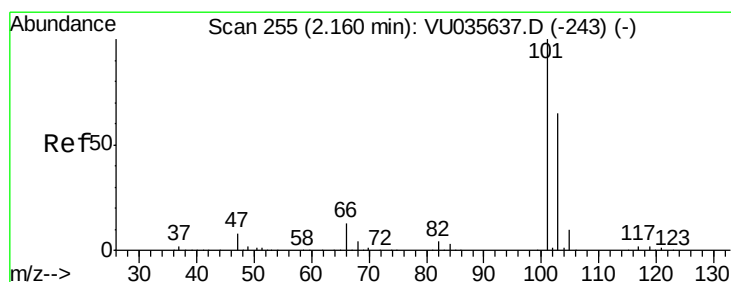
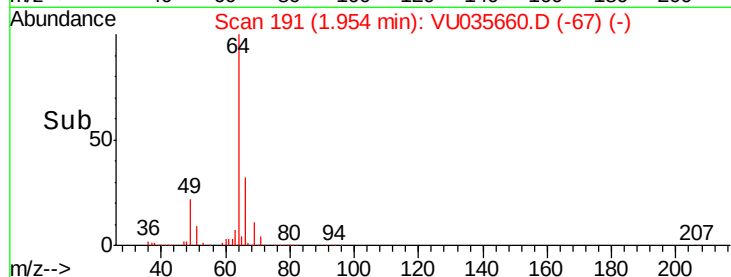
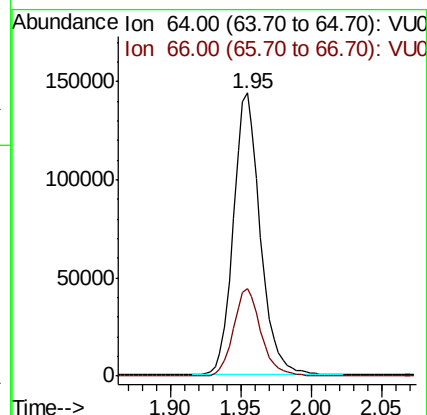
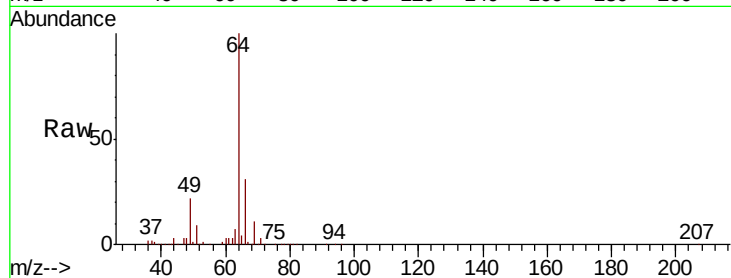
VSTD05039

Tot Ion: 64 Resp: 190917

Ion Ratio Lower Upper

64 100

66 31.1 22.8 42.4



#9

Trichlorofluoromethane

Concen: 50.776 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU035660.D

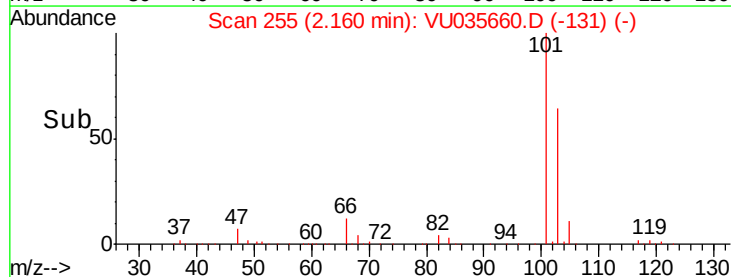
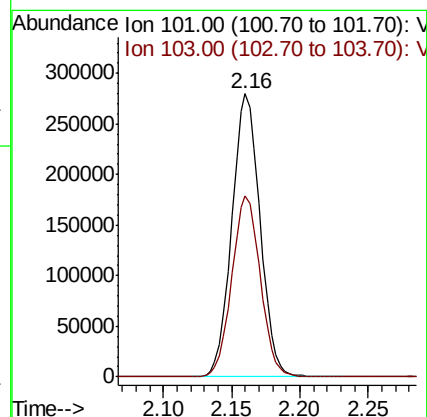
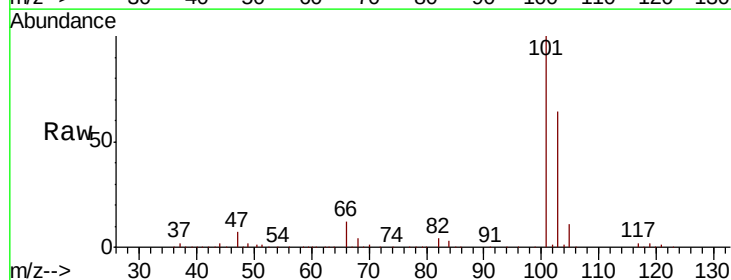
Acq: 07 Nov 2019 15:23

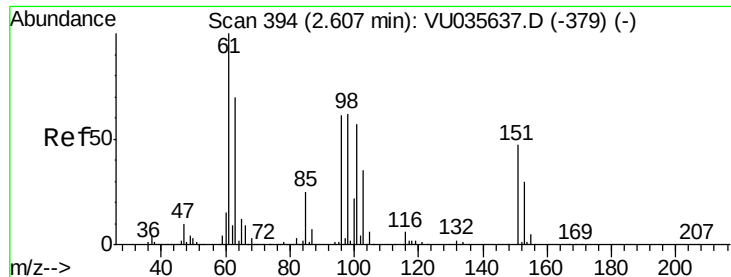
Tgt Ion: 101 Resp: 402685

Ion Ratio Lower Upper

101 100

103 64.5 51.8 77.6





#10

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

Concen: 51.736 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

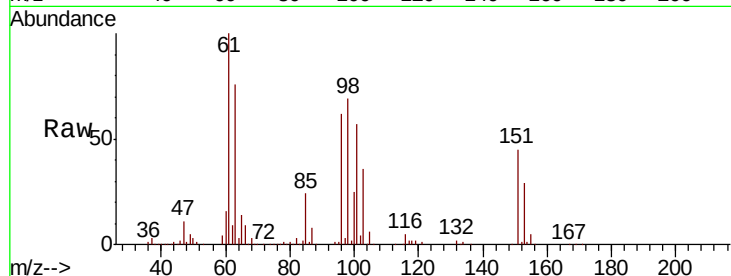
Tot Ion:101 Resp: 23548

Ion Ratio Lower Upper

101 100

85 41.4 34.0 51.0

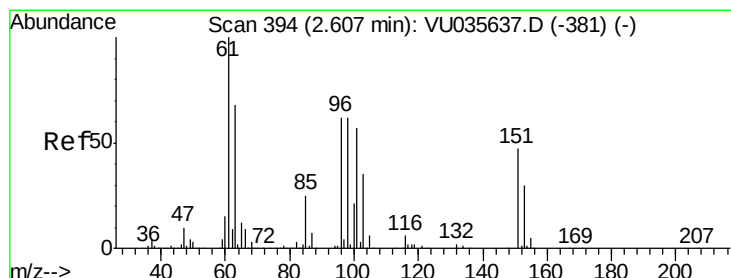
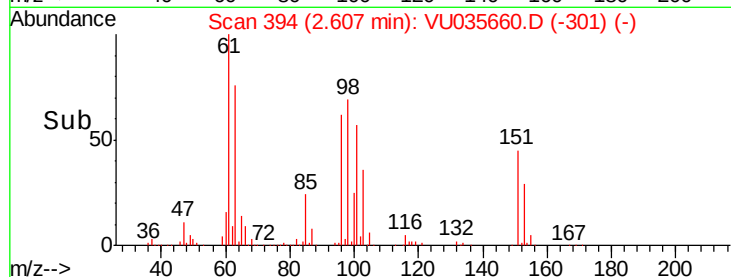
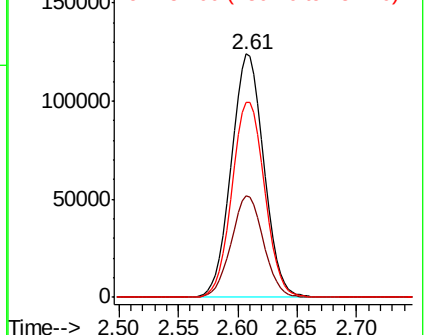
151 80.8 64.2 96.4



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: 50.005 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

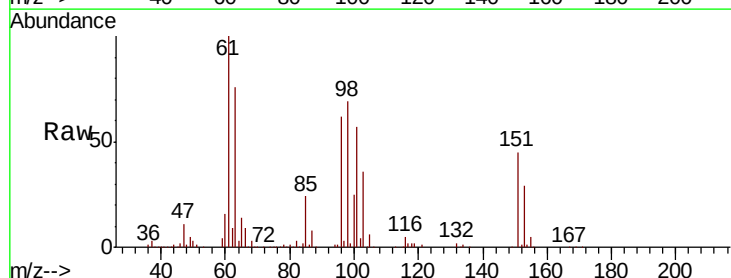
Tgt Ion: 96 Resp: 223623

Ion Ratio Lower Upper

96 100

61 162.4 113.1 210.1

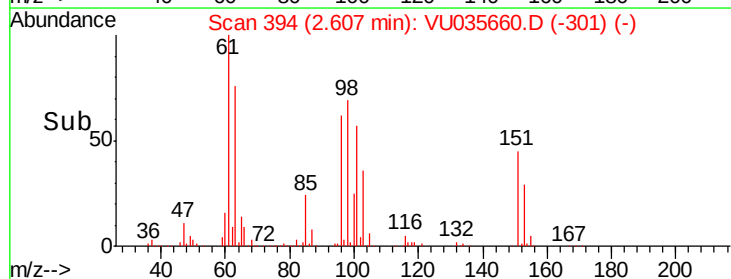
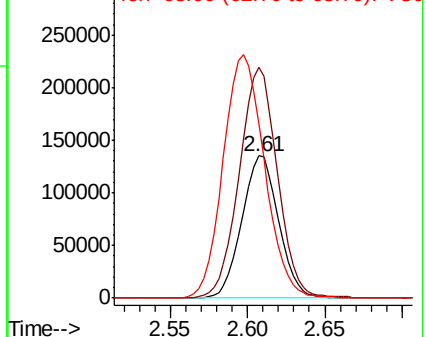
63 122.9 76.2 141.4

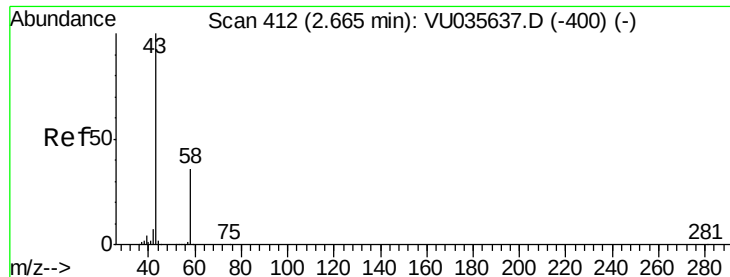


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 101.715 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

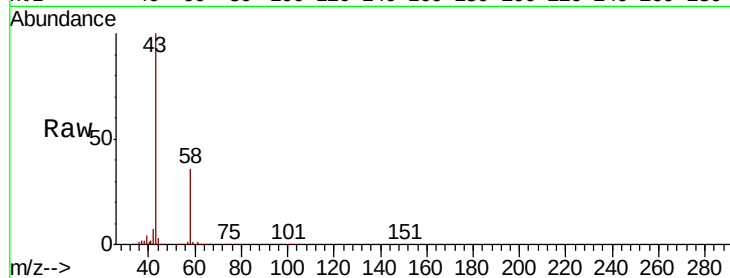
VSTD05039

Tot Ion: 43 Resp: 309085

Ion Ratio Lower Upper

43 100

58 35.1 0.0 70.0



Abundance Ion 43.00 (42.70 to 43.70): VU035637.D (-400) (-)

Ion 58.00 (57.70 to 58.70): VU035637.D (-400) (-)

2.66

200000

150000

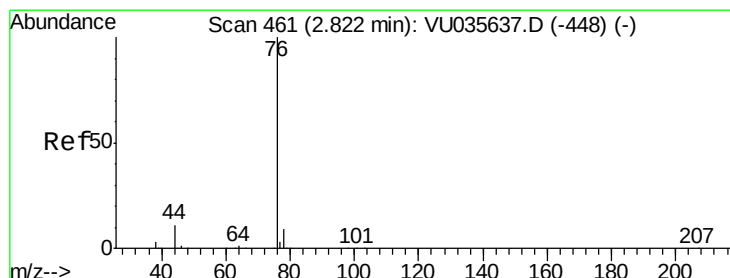
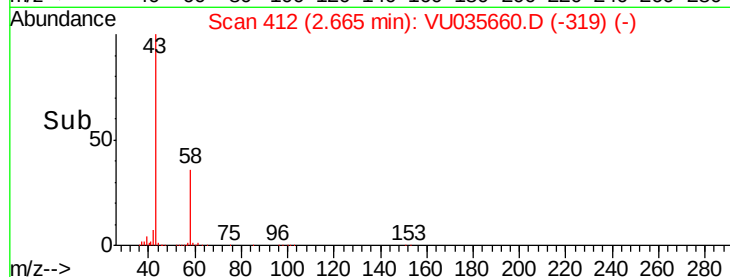
100000

50000

0

2.60 2.70 2.80

Time-->



#14

Carbon disulfide

Concen: 49.677 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU035660.D

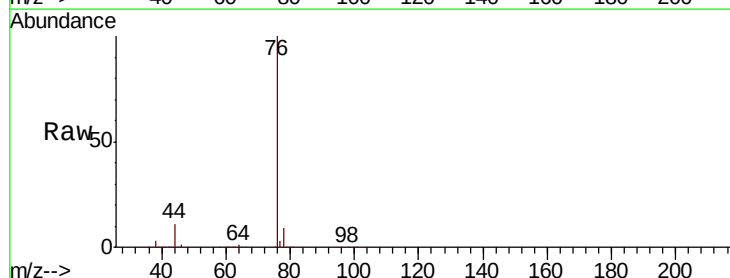
Acq: 07 Nov 2019 15:23

Tgt Ion: 76 Resp: 684430

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU035637.D (-448) (-)

Ion 78.00 (77.70 to 78.70): VU035637.D (-448) (-)

2.83

400000

300000

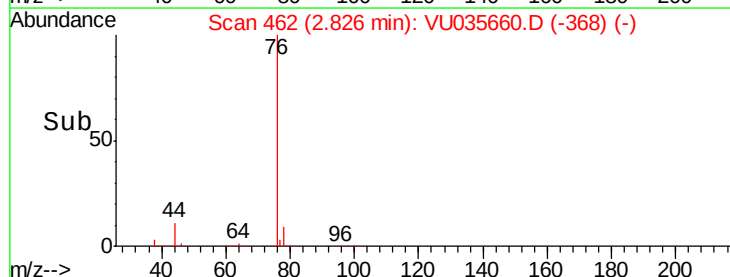
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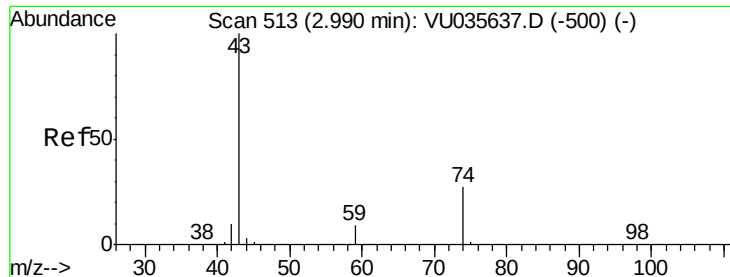
100000

0

2.80 2.90

Time-->





#15

Methvl Acetate

Concen: 46.204 ug/L

RT: 2.99 min Scan# 514

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

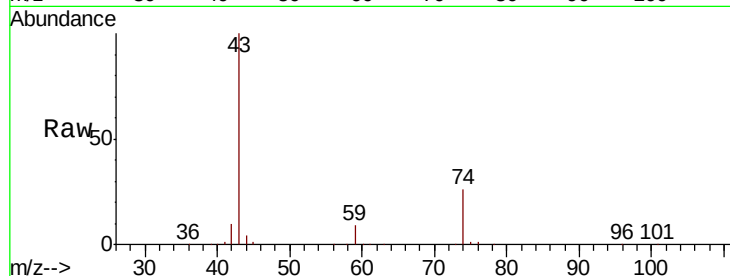
VSTD05039

Tot Ion: 43 Resp: 254305

Ion Ratio Lower Upper

43 100

74 25.9 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.99

150000

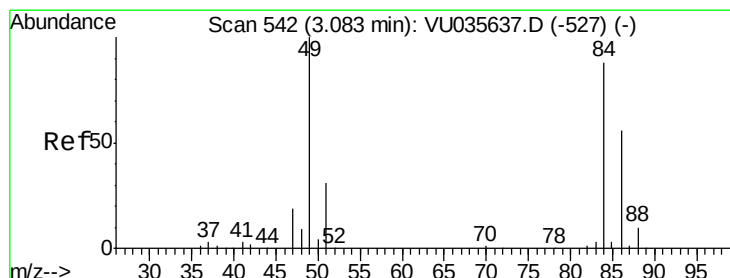
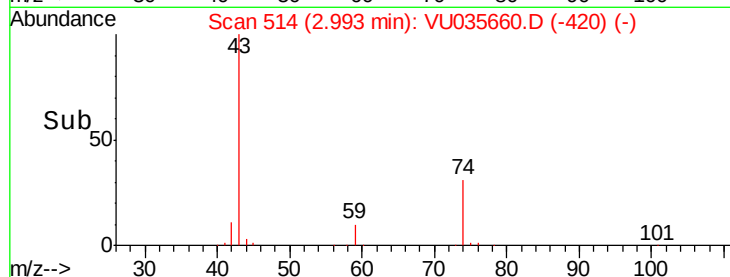
100000

50000

0

Time-->

2.90 2.95 3.00 3.05 3.10



#16

Methylene chloride

Concen: 48.449 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

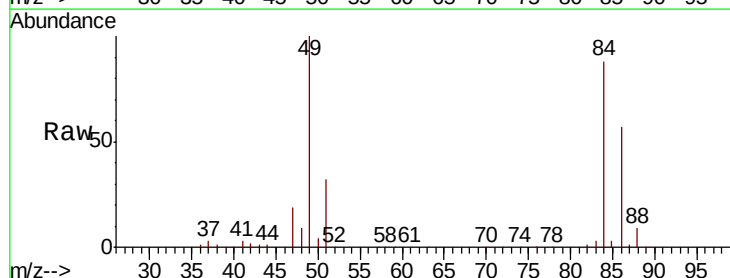
Tgt Ion: 84 Resp: 264364

Ion Ratio Lower Upper

84 100

86 64.5 45.1 83.7

49 113.8 82.7 153.5



Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

3.08

200000

150000

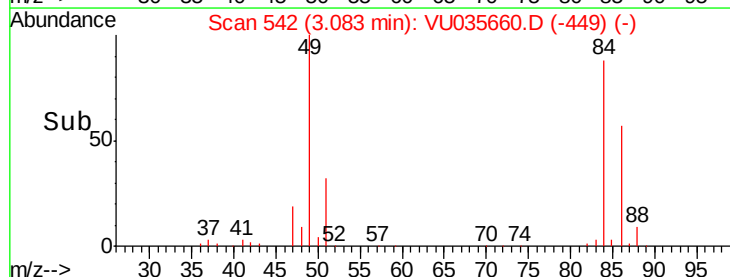
100000

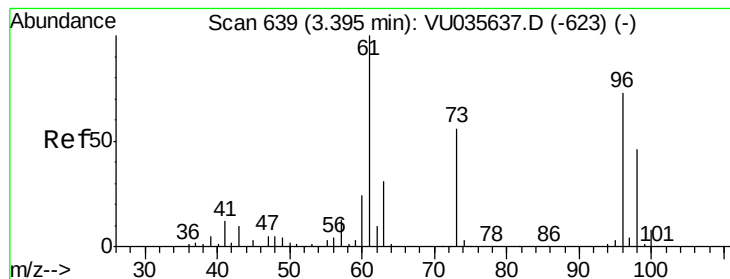
50000

0

Time-->

3.00 3.05 3.10 3.15





#17

trans-1,2-Dichloroethene

Concen: 49.961 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

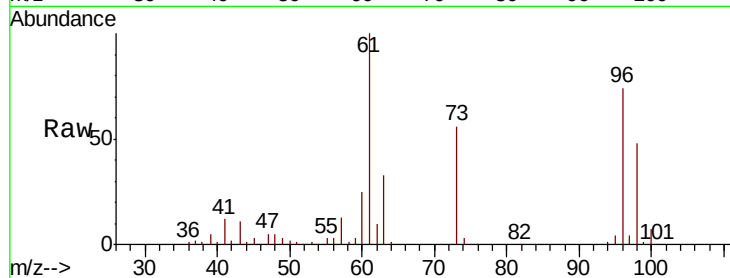
Tot Ion: 96 Resp: 235287

Ion Ratio Lower Upper

96 100

61 135.2 95.3 176.9

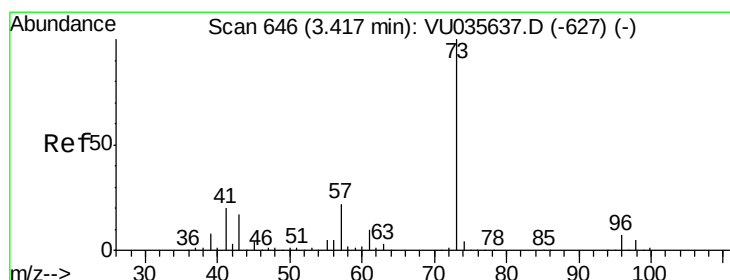
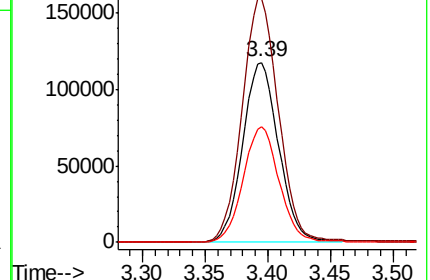
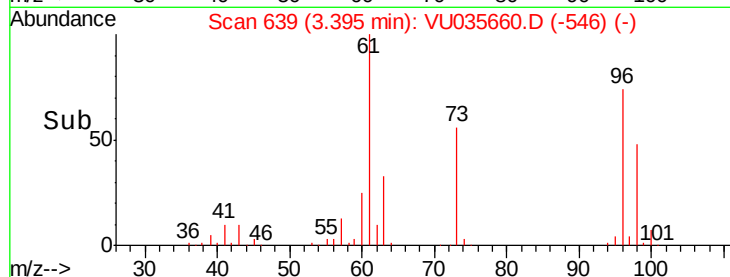
98 64.4 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU035637.D (-623) (-)

Ion 61.00 (60.70 to 61.70): VU035637.D (-623) (-)

Ion 98.00 (97.70 to 98.70): VU035637.D (-623) (-)



#18

Methyl tert-butyl Ether

Concen: 49.763 ug/L

RT: 3.42 min Scan# 646

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

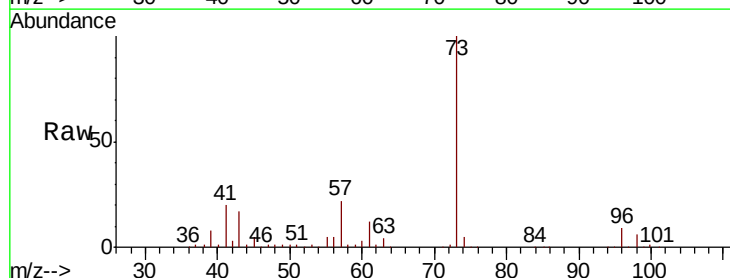
Tgt Ion: 73 Resp: 708535

Ion Ratio Lower Upper

73 100

43 17.2 14.2 21.2

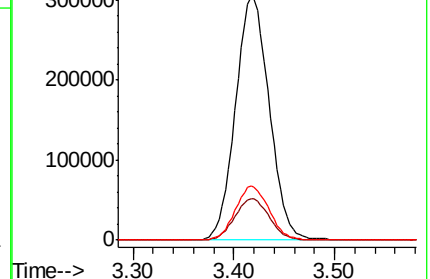
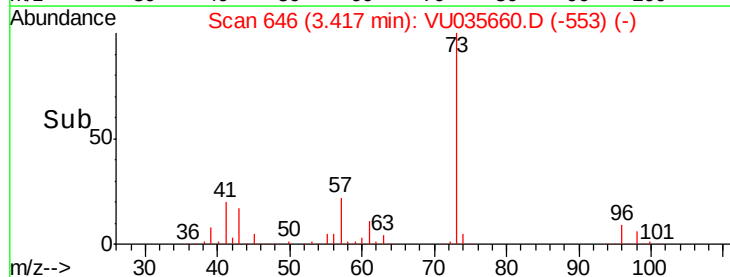
57 22.1 18.3 27.5

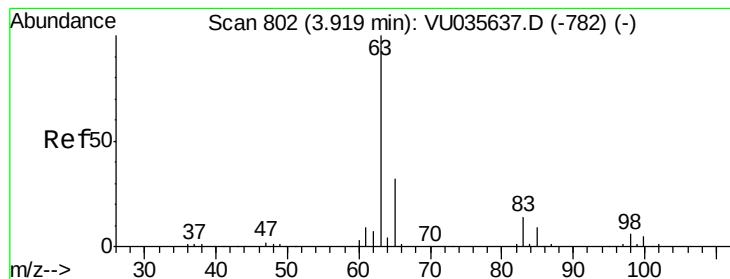


Abundance Ion 73.00 (72.70 to 73.70): VU035637.D (-627) (-)

Ion 43.00 (42.70 to 43.70): VU035637.D (-627) (-)

Ion 57.00 (56.70 to 57.70): VU035637.D (-627) (-)





#19

1,1-Dichloroethane

Concen: 48.466 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

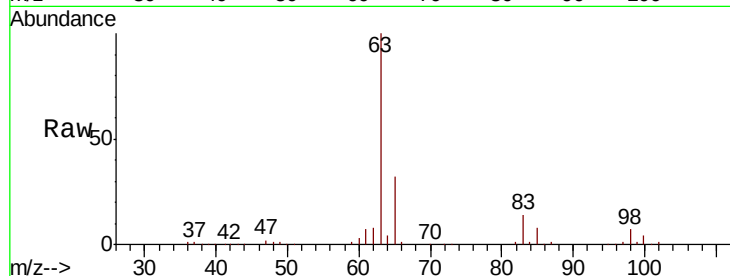
Tot Ion: 63 Resp: 440285

Ion Ratio Lower Upper

63 100

65 31.9 22.1 41.1

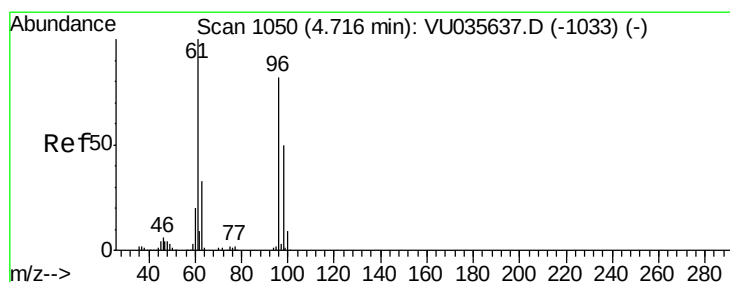
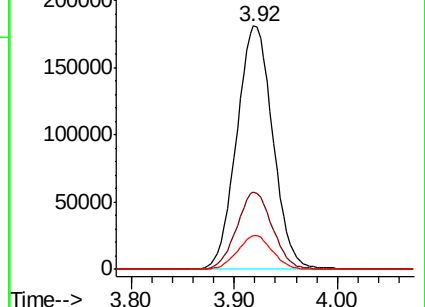
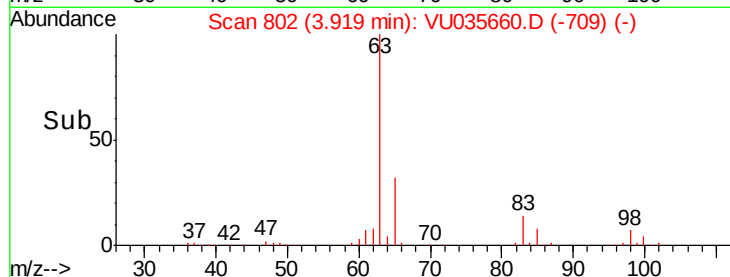
83 13.7 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU035660.D (-709) (-)

Ion 65.00 (64.70 to 65.70): VU035660.D (-709) (-)

Ion 83.00 (82.70 to 83.70): VU035660.D (-709) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.437 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

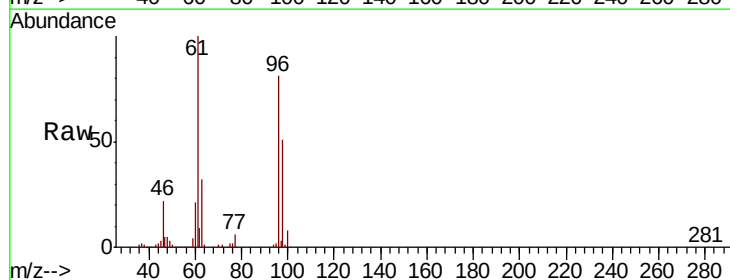
Tgt Ion: 96 Resp: 262598

Ion Ratio Lower Upper

96 100

61 123.5 90.6 168.3

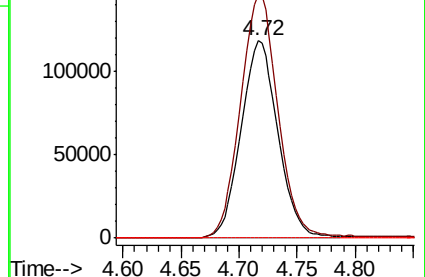
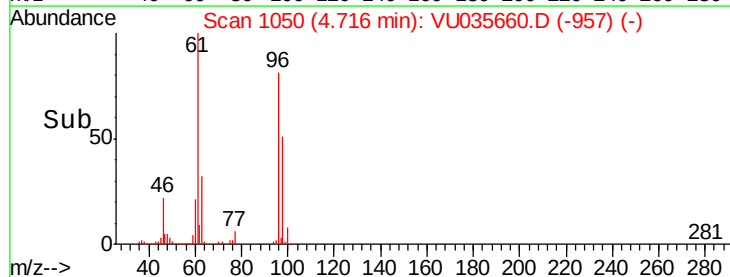
68 0.0 0.0 0.0

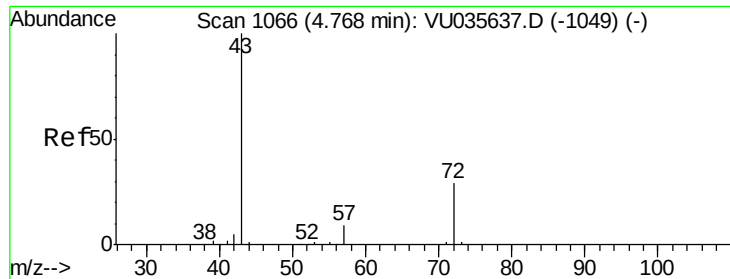


Abundance Ion 96.00 (95.70 to 96.70): VU035660.D (-957) (-)

Ion 61.00 (60.70 to 61.70): VU035660.D (-957) (-)

Ion 68.00 (67.70 to 68.70): VU035660.D (-957) (-)





#22

2-Butanone

Concen: 97.000 ug/L

RT: 4.77 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

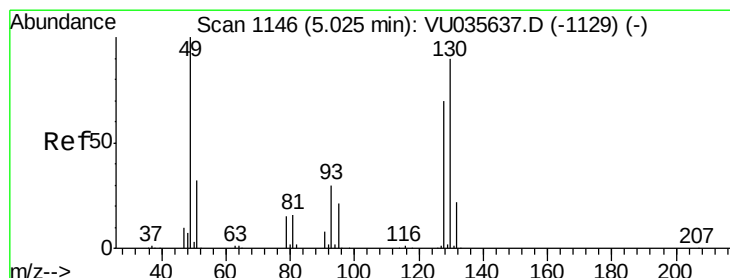
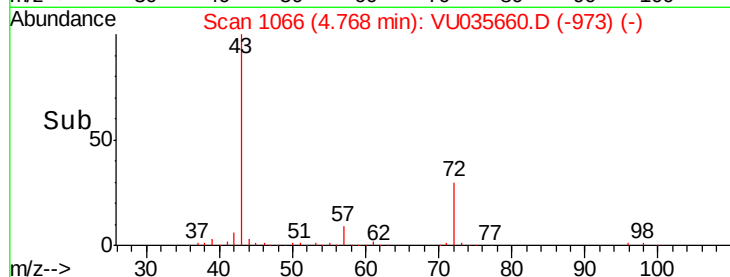
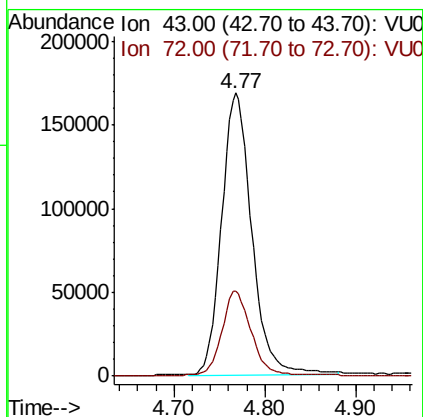
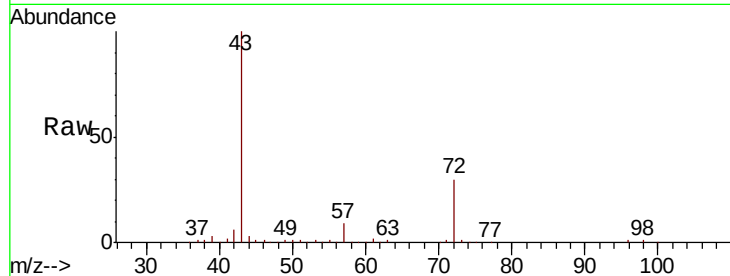
VSTD05039

Tot Ion: 43 Resp: 389103

Ion Ratio Lower Upper

43 100

72 29.8 13.5 40.4



#23

Bromochloromethane

Concen: 50.822 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Tgt Ion: 128 Resp: 142651

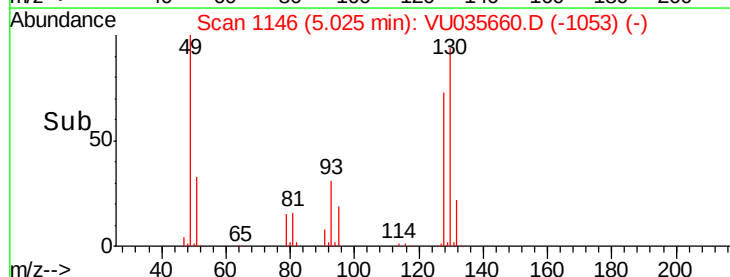
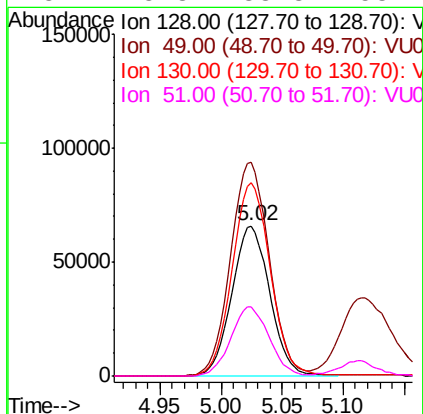
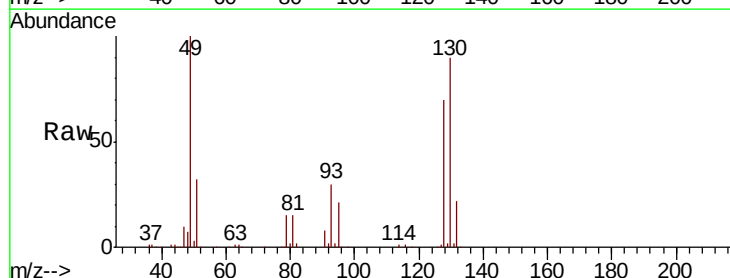
Ion Ratio Lower Upper

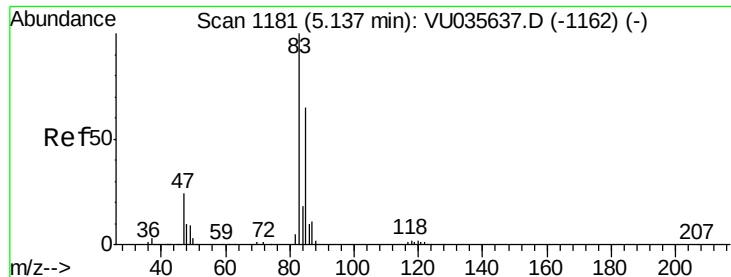
128 100

49 142.2 106.4 197.6

130 128.5 88.1 163.5

51 45.8 38.8 58.2

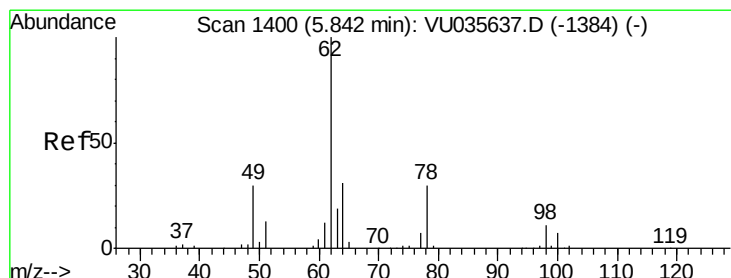
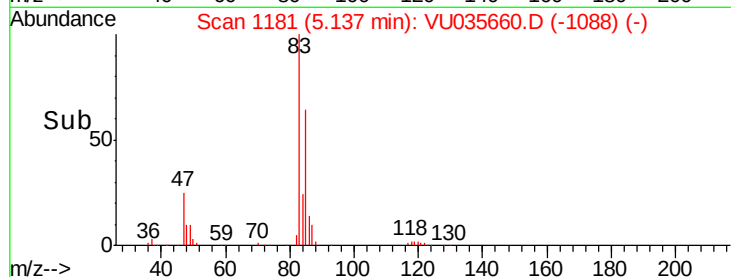
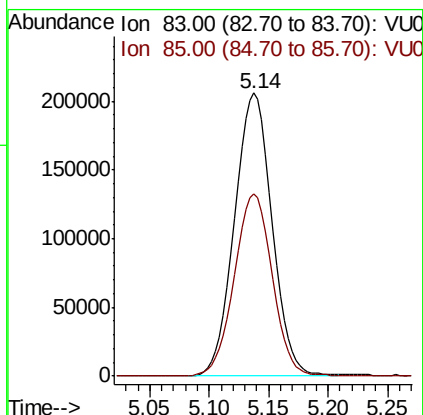
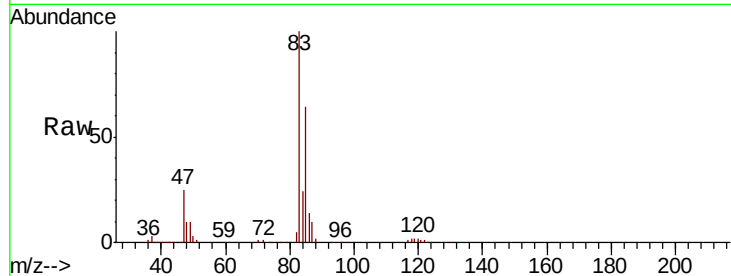




#25
Chloroform
Concen: 48.881 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU035660.D
Acq: 07 Nov 2019 15:23

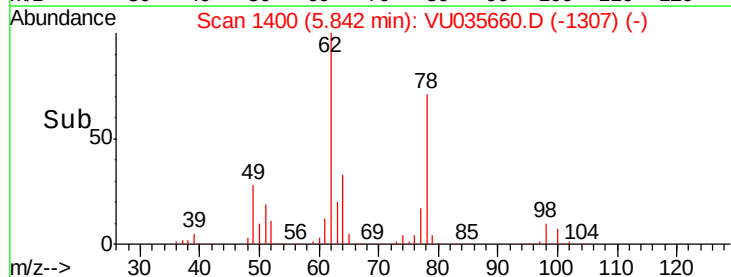
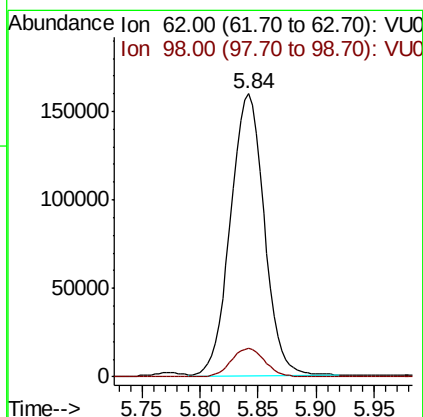
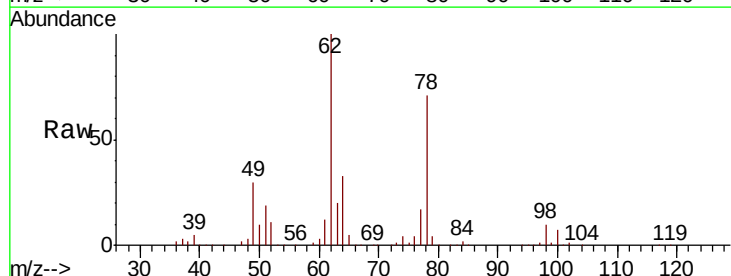
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

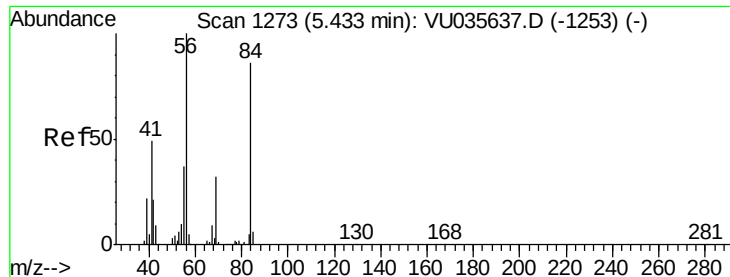
Tot Ion: 83 Resp: 450989
Ion Ratio Lower Upper
83 100
85 64.5 45.4 84.4



#27
1,2-Dichloroethane
Concen: 47.893 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VU035660.D
Acq: 07 Nov 2019 15:23

Tgt Ion: 62 Resp: 322822
Ion Ratio Lower Upper
62 100
98 10.0 8.2 12.2

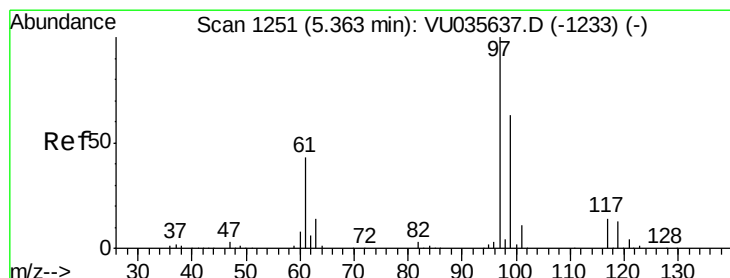
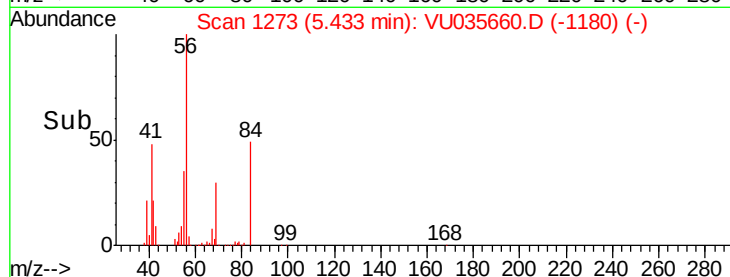
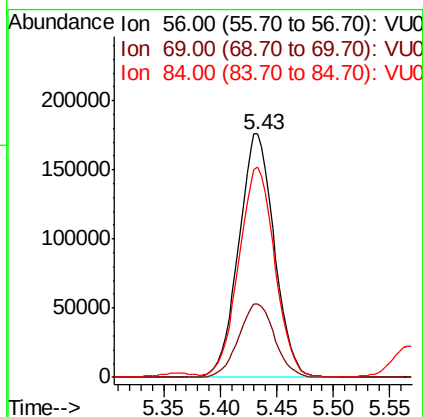
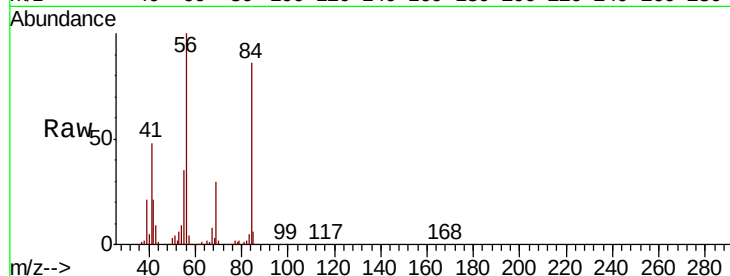




#29
Cyclohexane
Concen: 52.975 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VU035660.D
Acq: 07 Nov 2019 15:23

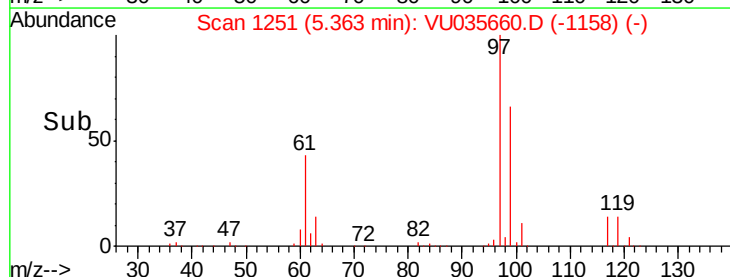
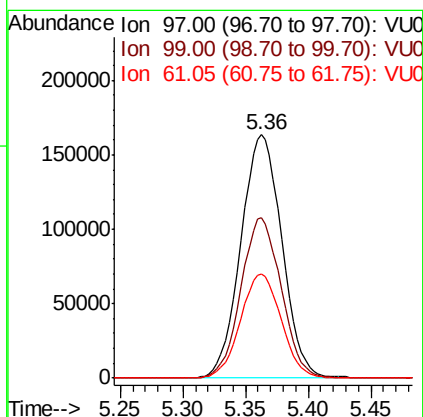
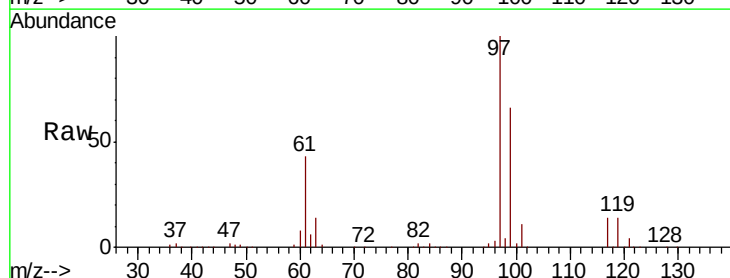
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

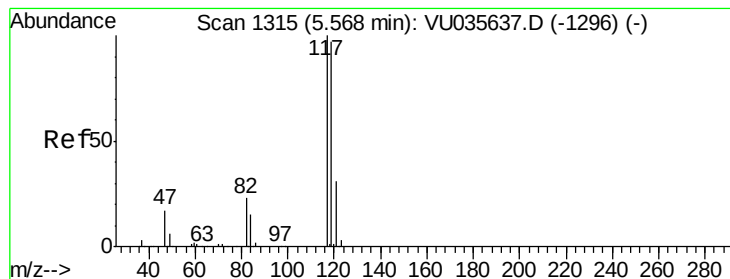
Tot Ion: 56 Resp: 385319
Ion Ratio Lower Upper
56 100
69 30.5 24.4 36.6
84 86.5 68.6 102.8



#30
1,1,1-Trichloroethane
Concen: 49.589 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU035660.D
Acq: 07 Nov 2019 15:23

Tgt Ion: 97 Resp: 371682
Ion Ratio Lower Upper
97 100
99 65.1 51.5 77.3
61 42.4 35.1 52.7





#31

Carbon tetrachloride

Concen: 50.808 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

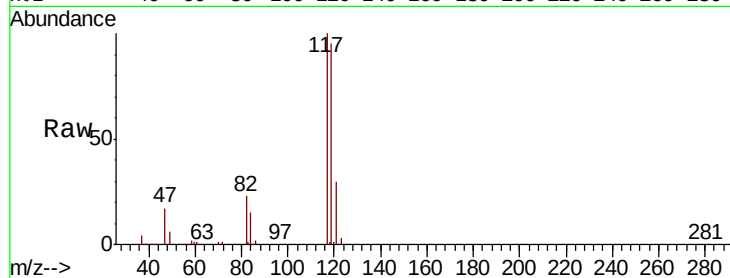
VSTD05039

Tot Ion:117 Resp: 338612

Ion Ratio Lower Upper

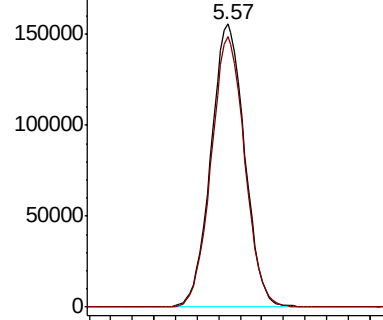
117 100

119 95.0 77.4 116.2

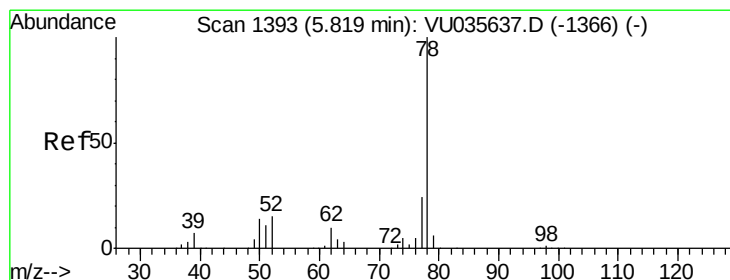
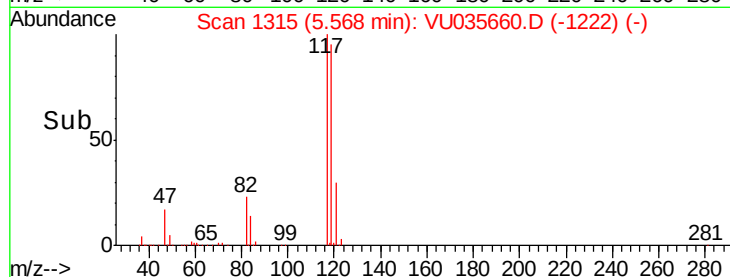


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#33

Benzene

Concen: 50.267 ug/L

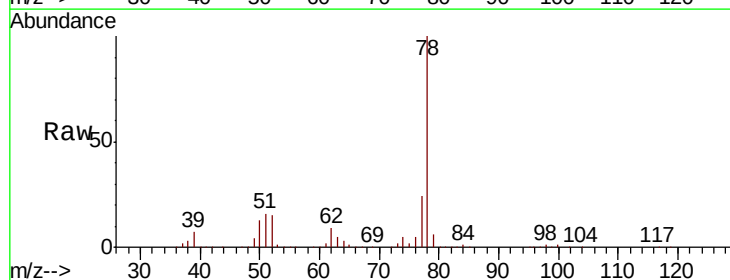
RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

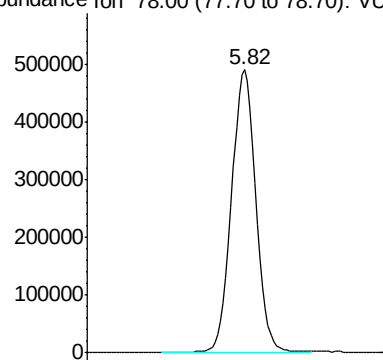
Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

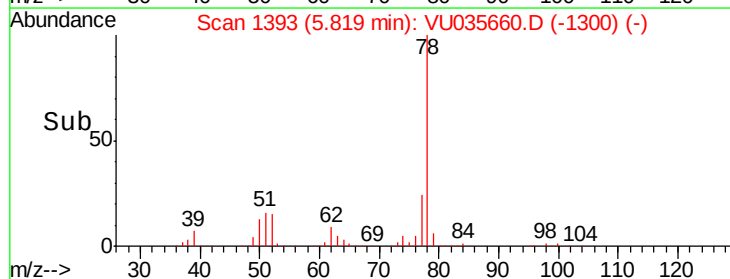
Tgt Ion: 78 Resp: 1007433

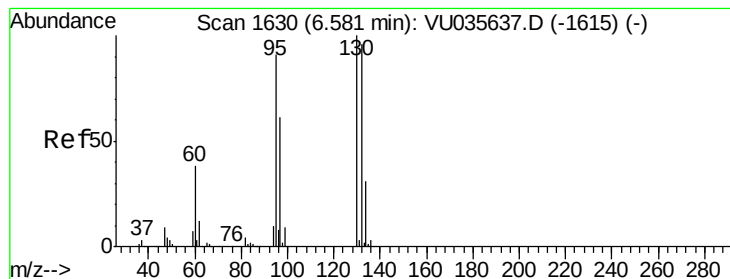


Abundance Ion 78.00 (77.70 to 78.70): VU0



Time-->





#34

Trichloroethene

Concen: 49.838 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

Tot Ion: 95 Resp: 253931

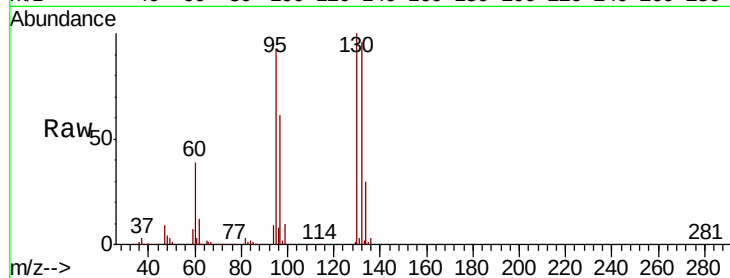
Ion Ratio Lower Upper

95 100

97 66.0 45.6 84.6

132 104.0 69.9 129.7

130 107.9 73.1 135.7

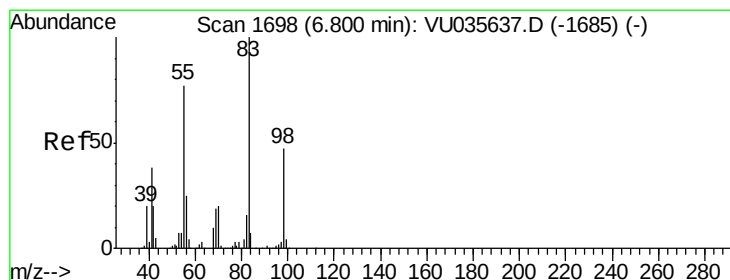
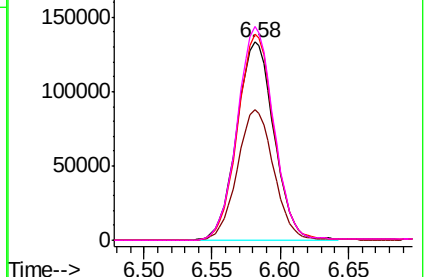
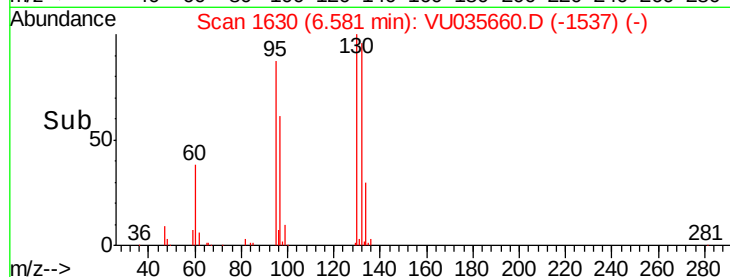


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 52.883 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

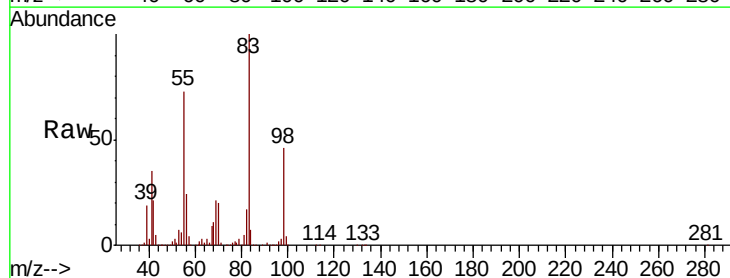
Tgt Ion: 83 Resp: 391324

Ion Ratio Lower Upper

83 100

55 74.2 61.0 91.4

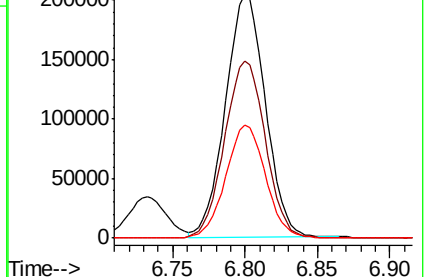
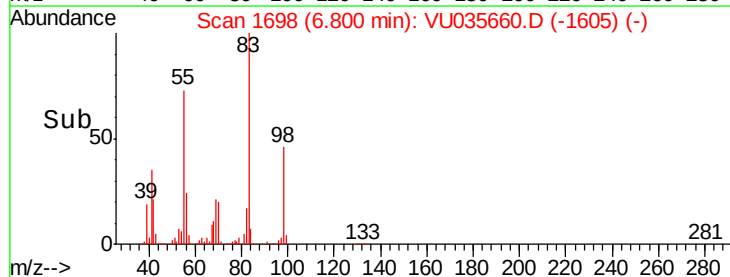
98 46.4 36.6 54.8

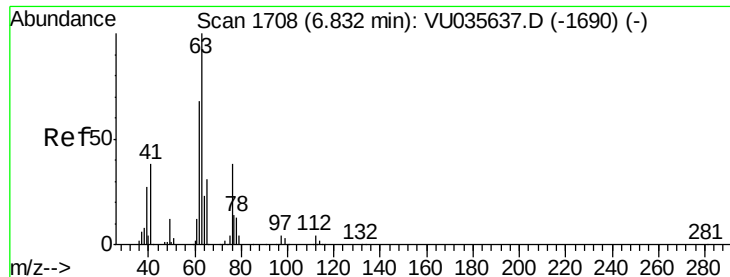


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

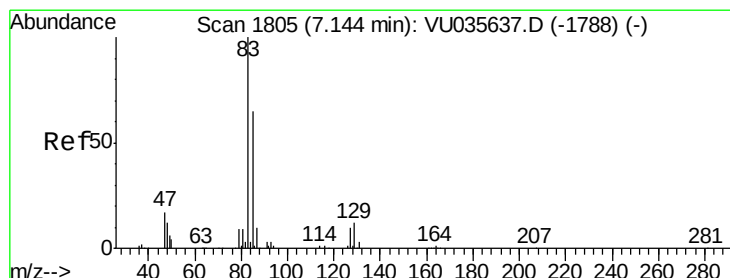
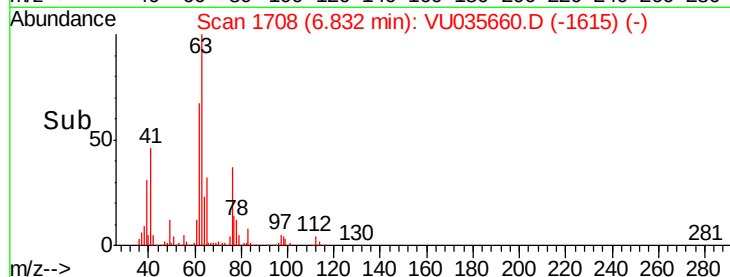
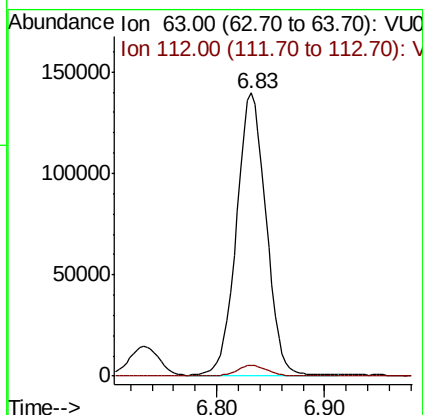
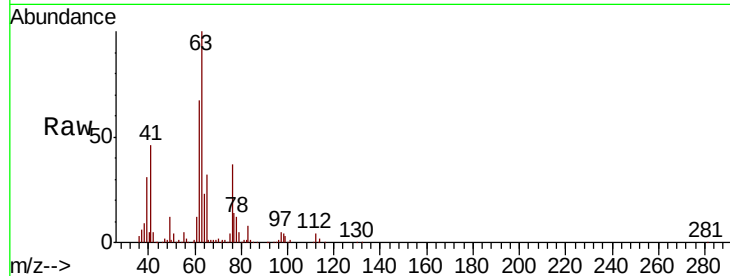




#37
 1,2-Dichloropropane
 Concen: 49.591 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. 0.00 min
 Lab File: VU035660.D
 Acq: 07 Nov 2019 15:23

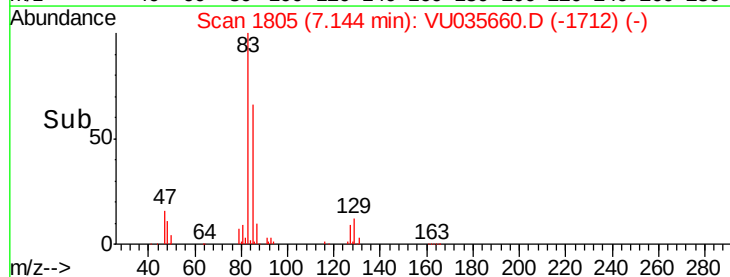
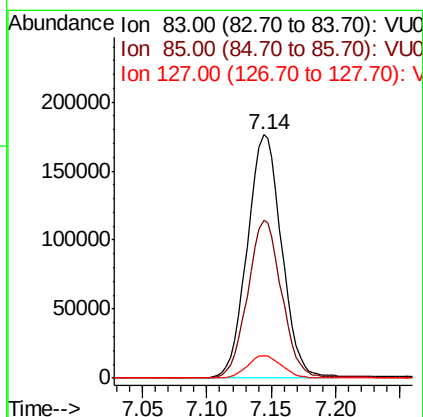
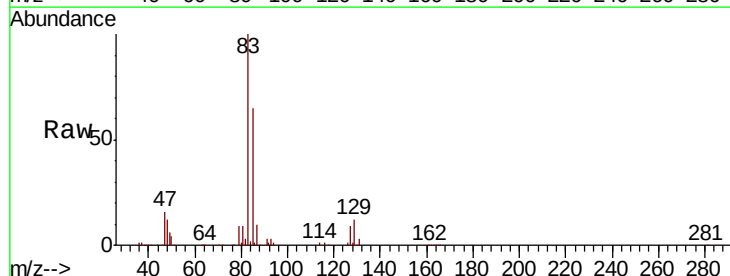
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

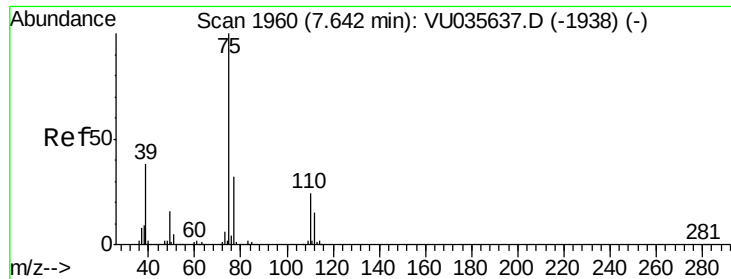
Tot Ion: 63 Resp: 266151
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.2 4.8



#38
 Bromodichloromethane
 Concen: 47.883 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU035660.D
 Acq: 07 Nov 2019 15:23

Tgt Ion: 83 Resp: 326653
 Ion Ratio Lower Upper
 83 100
 85 65.0 45.1 83.7
 127 9.2 7.2 10.8

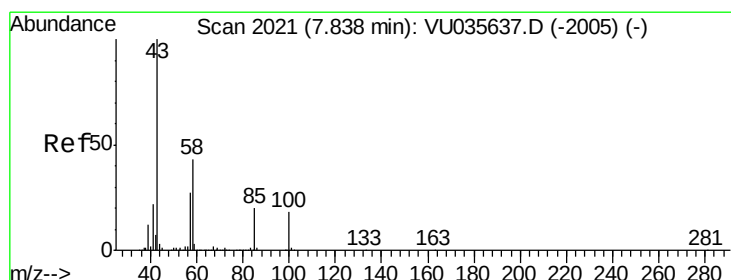
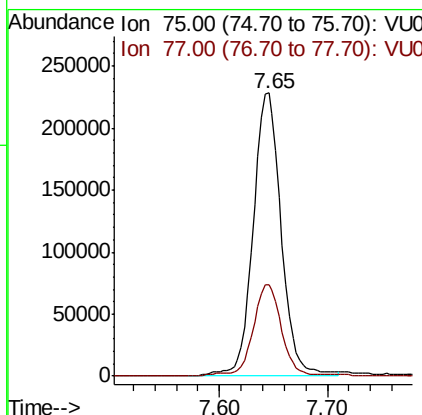
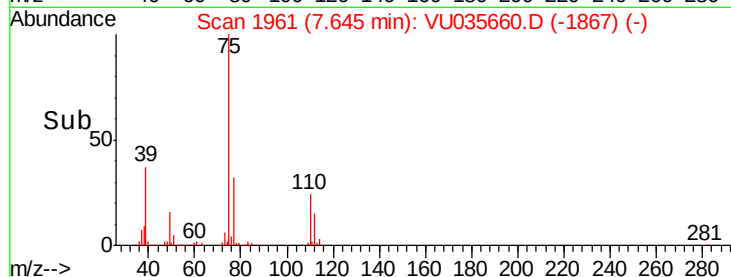
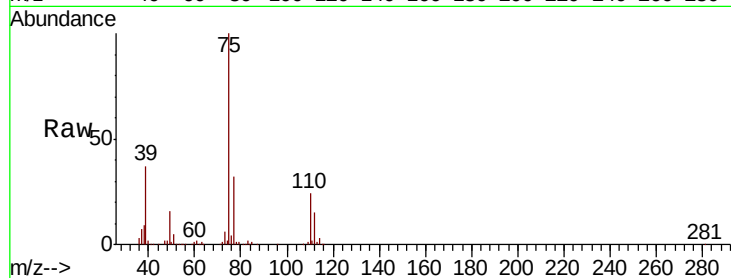




#39
 cis-1,3-Dichloropropene
 Concen: 51.722 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. 0.00 min
 Lab File: VU035660.D
 Acq: 07 Nov 2019 15:23

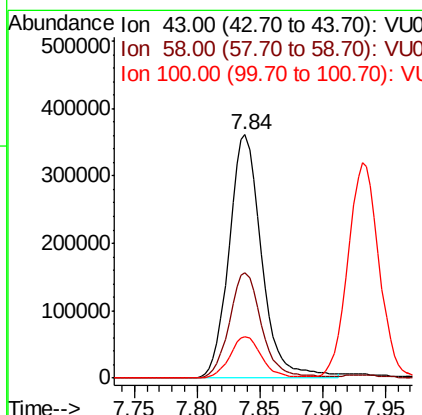
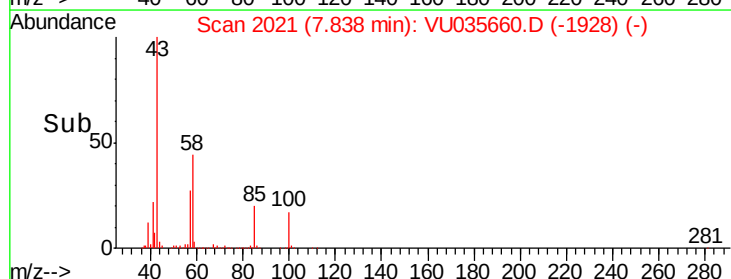
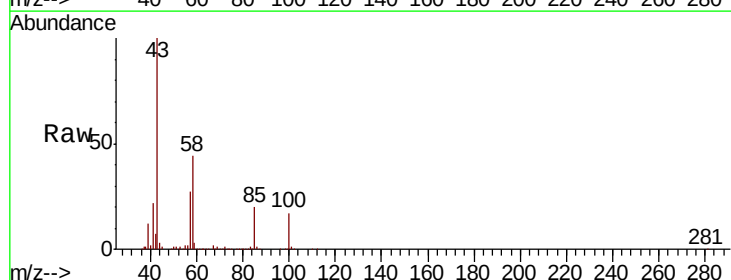
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

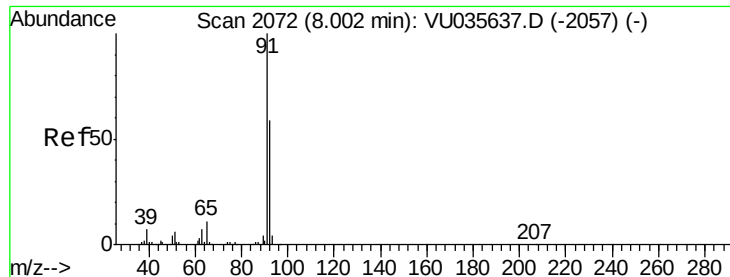
Tot Ion: 75 Resp: 412610
 Ion Ratio Lower Upper
 75 100
 77 32.5 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 91.122 ug/L
 RT: 7.84 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: VU035660.D
 Acq: 07 Nov 2019 15:23

Tgt Ion: 43 Resp: 654266
 Ion Ratio Lower Upper
 43 100
 58 43.0 32.6 49.0
 100 16.8 12.6 19.0





#42

Toluene

Concen: 52.576 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

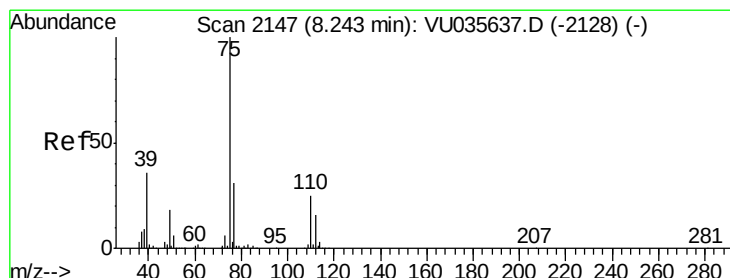
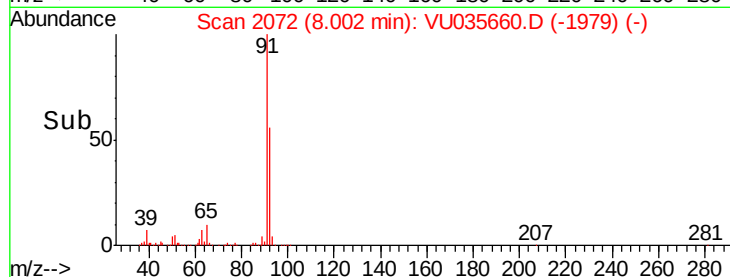
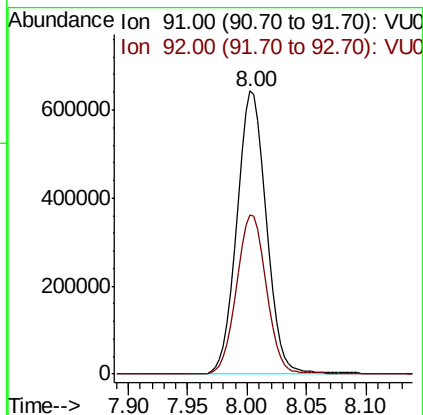
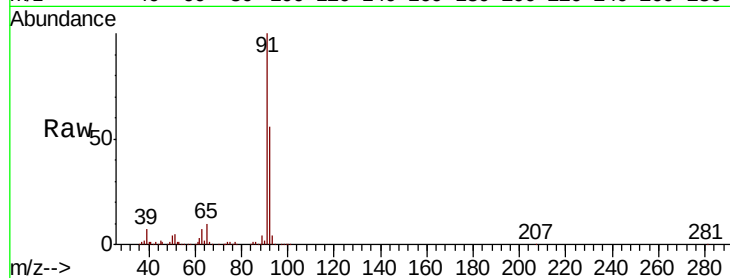
VSTD05039

Tot Ion: 91 Resp: 1104378

Ion Ratio Lower Upper

91 100

92 56.3 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 49.994 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU035660.D

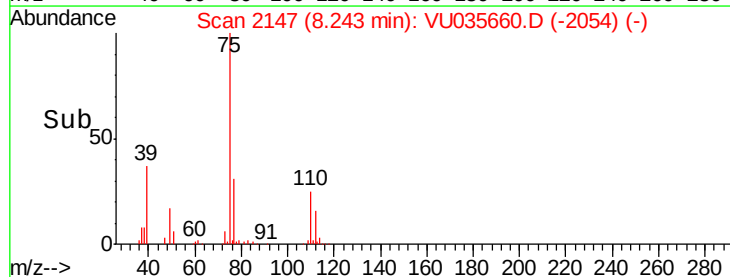
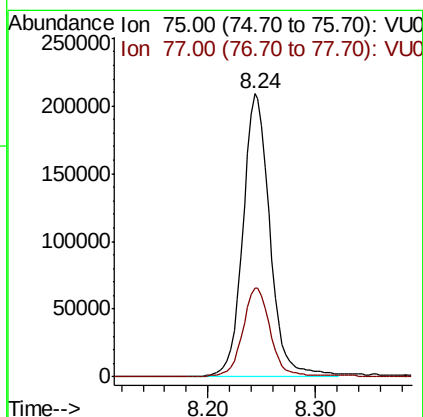
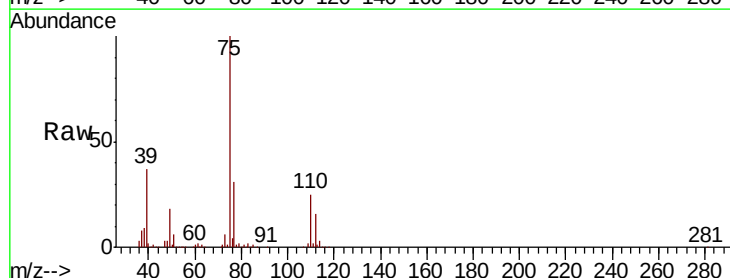
Acq: 07 Nov 2019 15:23

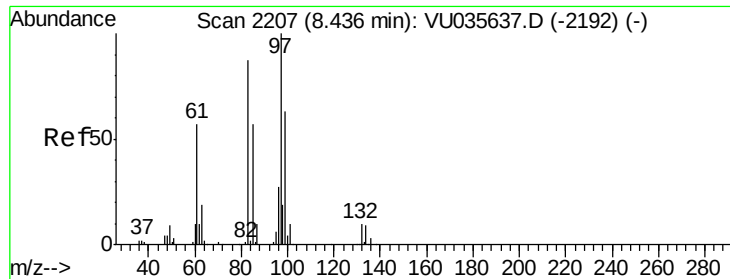
Tgt Ion: 75 Resp: 365581

Ion Ratio Lower Upper

75 100

77 31.5 22.1 41.1

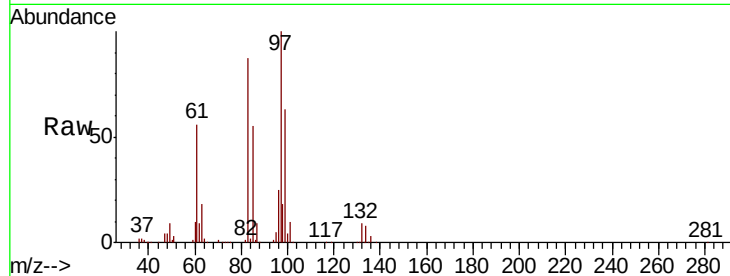




#45
 1,1,2-Trichloroethane
 Concen: 49.800 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: VU035660.D
 Acq: 07 Nov 2019 15:23

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

Tot Ion:	97	Resp:	256183
Ion	Ratio	Lower	Upper
97	100		
99	62.8	44.2	82.2
83	86.8	61.5	114.3
85	54.9	39.3	73.1

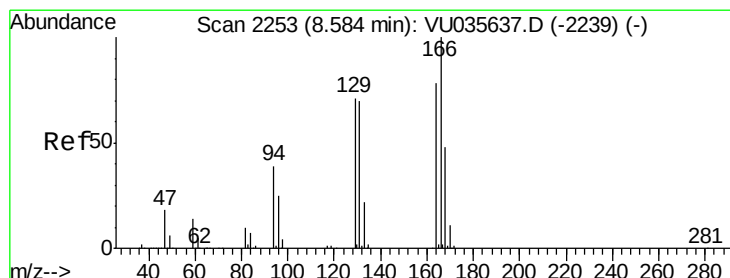
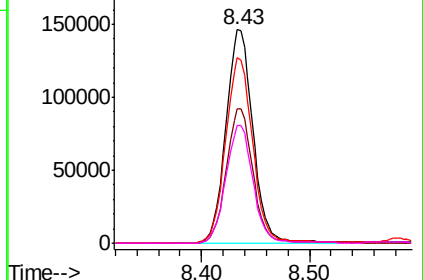
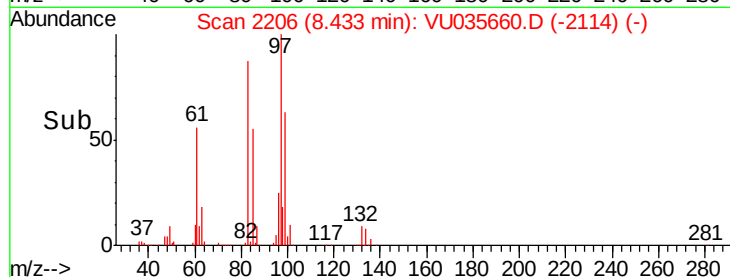


Abundance Ion 97.00 (96.70 to 97.70): VU035637.D (-2192) (-)

Ion 99.00 (98.70 to 99.70): VU035637.D (-2192) (-)

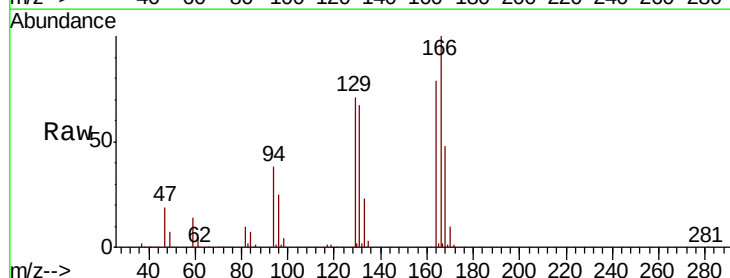
Ion 83.00 (82.70 to 83.70): VU035637.D (-2192) (-)

Ion 85.00 (84.70 to 85.70): VU035637.D (-2192) (-)



#46
 Tetrachloroethene
 Concen: 53.165 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU035660.D
 Acq: 07 Nov 2019 15:23

Tgt Ion:	164	Resp:	226501
Ion	Ratio	Lower	Upper
164	100		
129	90.8	64.1	119.1
131	85.6	63.1	117.1
166	127.3	88.5	164.3

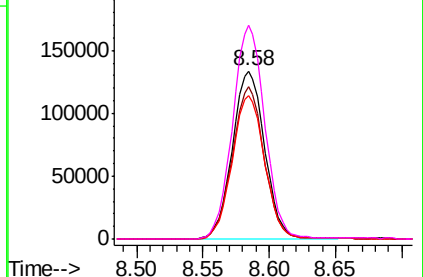
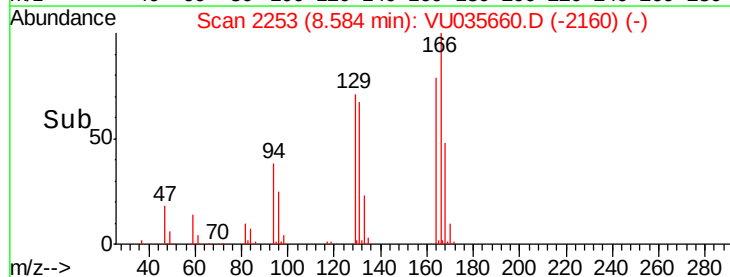


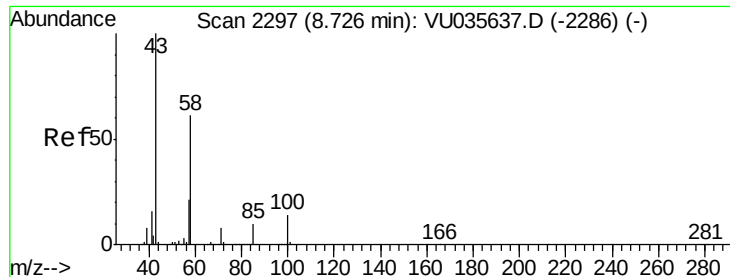
Abundance Ion 164.00 (163.70 to 164.70): VU035637.D (-2239) (-)

Ion 129.00 (128.70 to 129.70): VU035637.D (-2239) (-)

Ion 131.00 (130.70 to 131.70): VU035637.D (-2239) (-)

Ion 166.00 (165.70 to 166.70): VU035637.D (-2239) (-)

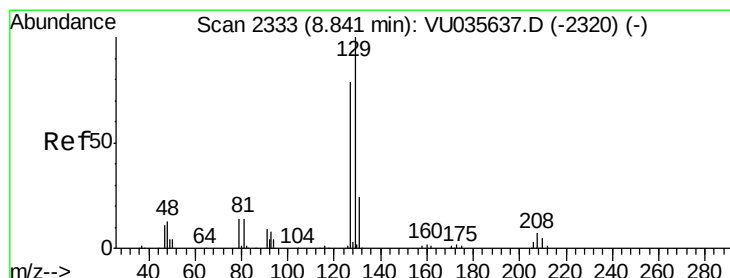
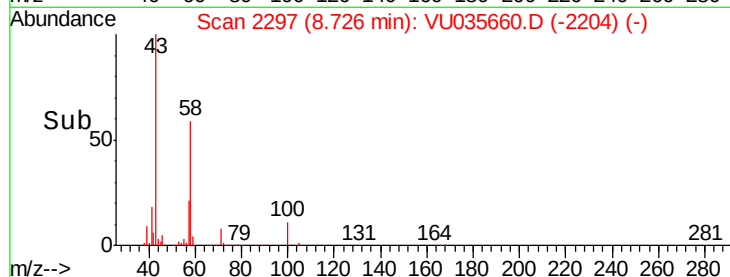
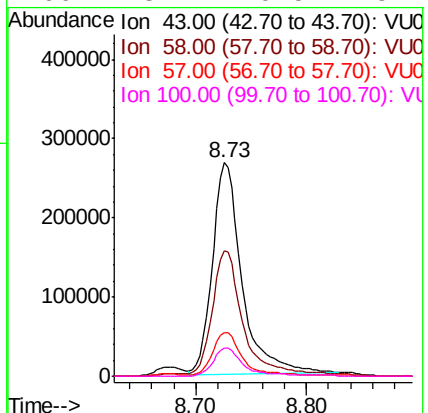
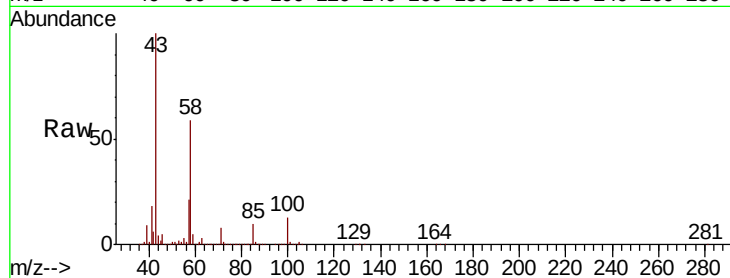




#48
2-Hexanone
Concen: 84.022 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU035660.D
Acq: 07 Nov 2019 15:23

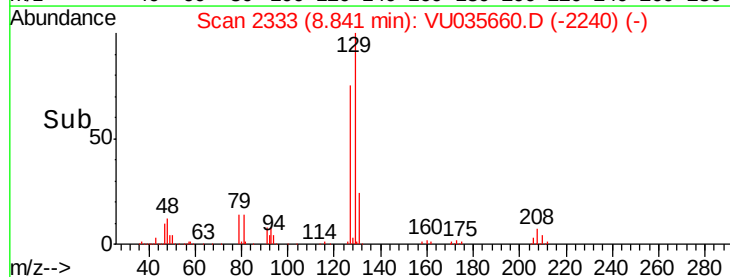
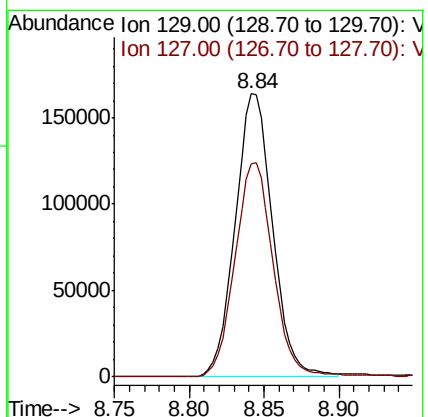
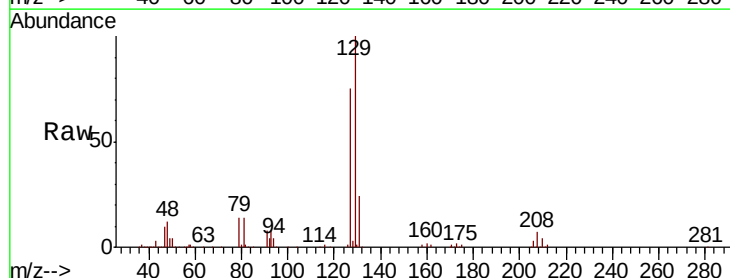
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

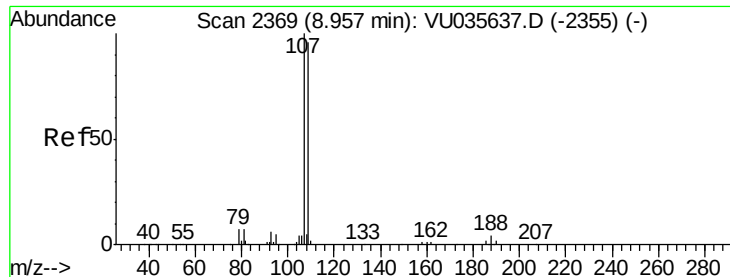
Tot Ion: 43 Resp: 490591
Ion Ratio Lower Upper
43 100
58 64.2 50.4 75.6
57 21.2 17.4 26.0
100 13.2 10.5 15.7



#49
Dibromochloromethane
Concen: 49.319 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU035660.D
Acq: 07 Nov 2019 15:23

Tgt Ion: 129 Resp: 286110
Ion Ratio Lower Upper
129 100
127 75.4 54.9 101.9

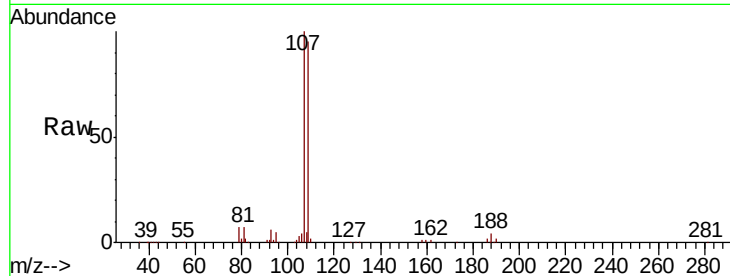




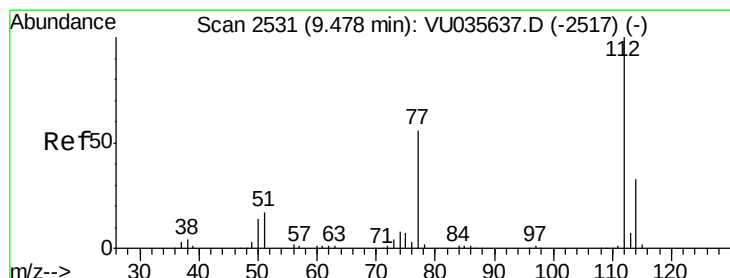
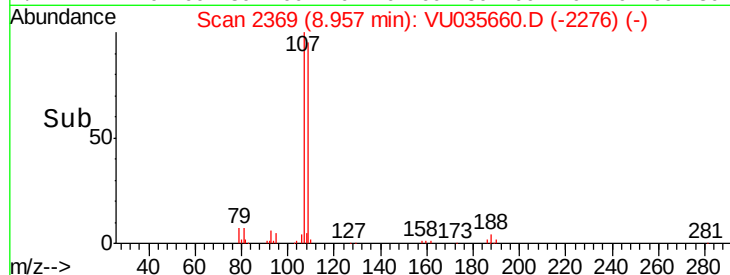
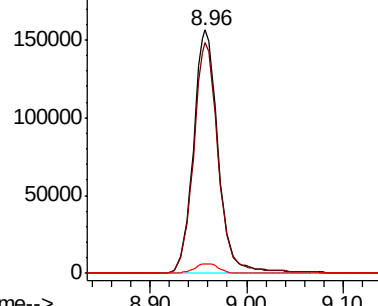
#50
 1,2-Dibromoethane
 Concen: 50.641 ug/L
 RT: 8.96 min Scan# 2369
 Delta R.T. 0.00 min
 Lab File: VU035660.D
 Acq: 07 Nov 2019 15:23

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

Tot Ion:107 Resp: 277942
 Ion Ratio Lower Upper
 107 100
 109 94.8 66.8 124.2
 188 4.1 3.2 4.8

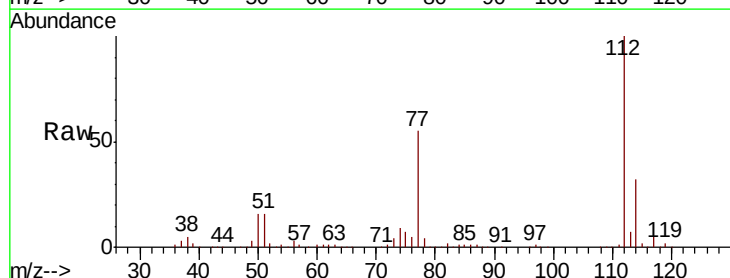


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

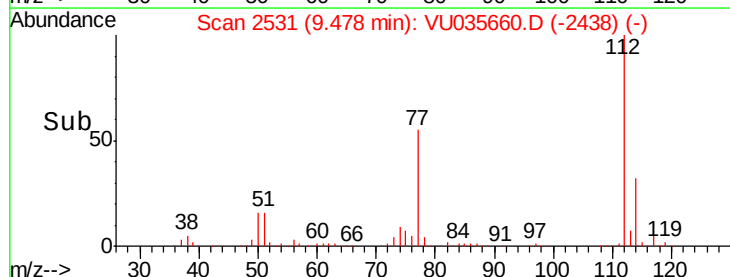
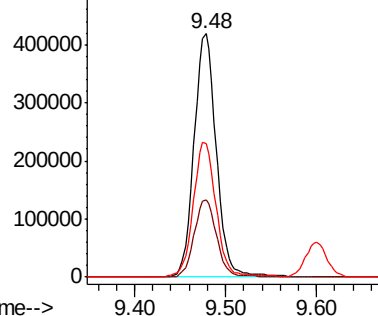


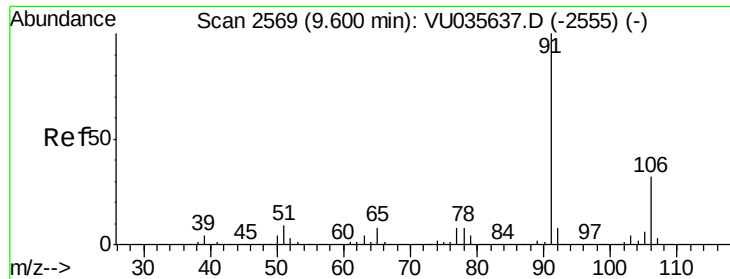
#51
 Chlorobenzene
 Concen: 50.756 ug/L
 RT: 9.48 min Scan# 2531
 Delta R.T. 0.00 min
 Lab File: VU035660.D
 Acq: 07 Nov 2019 15:23

Tgt Ion:112 Resp: 711735
 Ion Ratio Lower Upper
 112 100
 114 31.9 22.7 42.3
 77 55.0 45.9 68.9



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

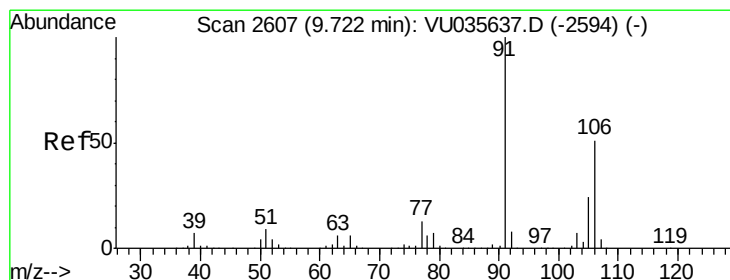
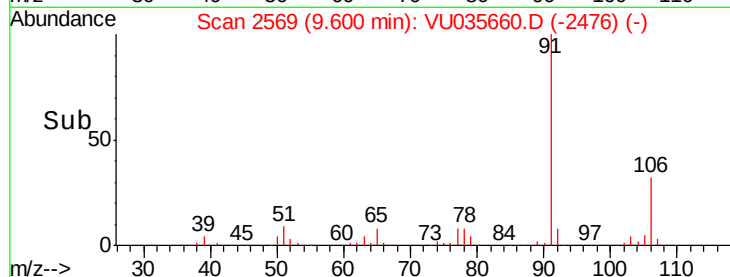
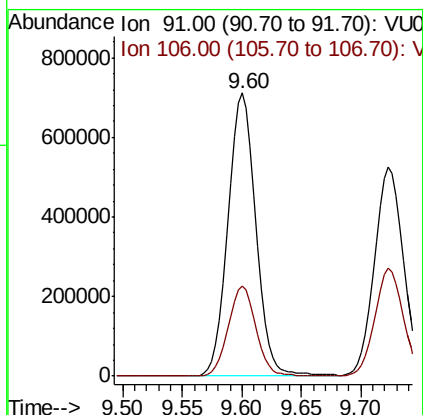
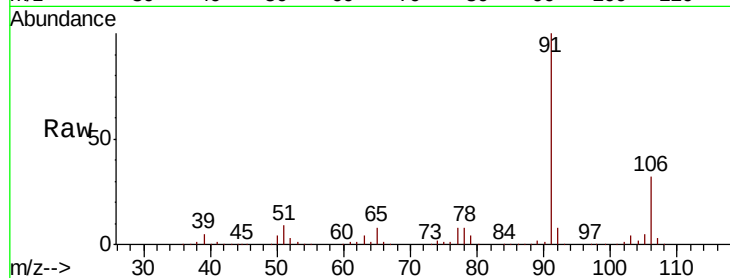




#52
Ethylbenzene
Concen: 51.661 ug/L
RT: 9.60 min Scan# 2569
Delta R.T. 0.00 min
Lab File: VU035660.D
Acq: 07 Nov 2019 15:23

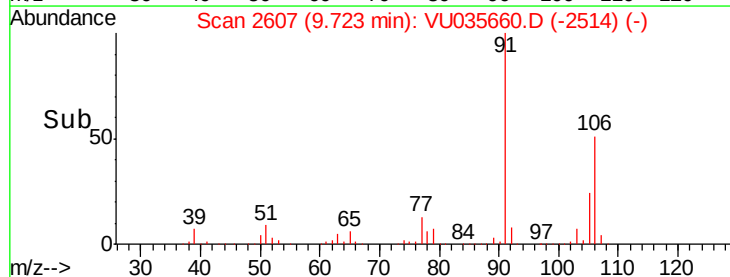
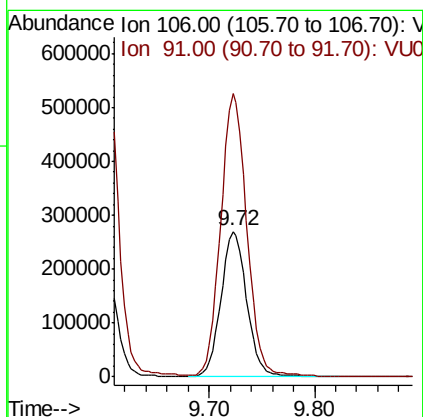
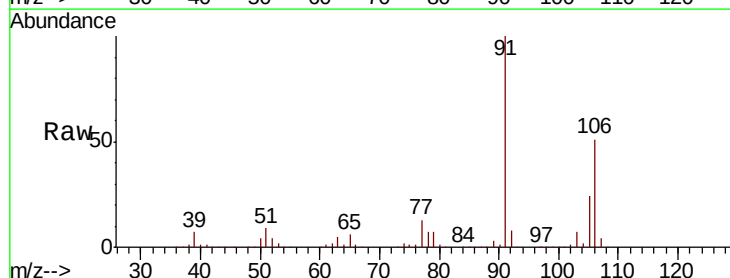
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

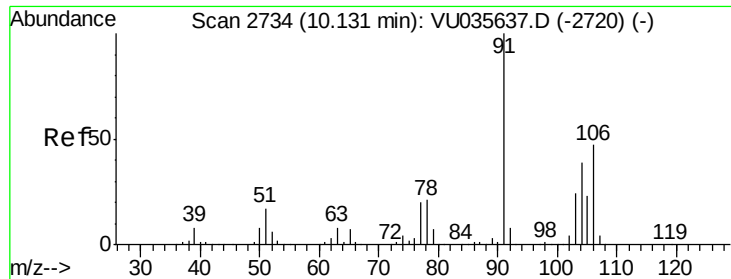
Tot Ion: 91 Resp: 1160092
Ion Ratio Lower Upper
91 100
106 31.8 21.6 40.0



#53
m,p-Xylene
Concen: 54.433 ug/L
RT: 9.72 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VU035660.D
Acq: 07 Nov 2019 15:23

Tgt Ion: 106 Resp: 458664
Ion Ratio Lower Upper
106 100
91 194.3 142.7 264.9





#54

o-xylene

Concen: 54.103 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

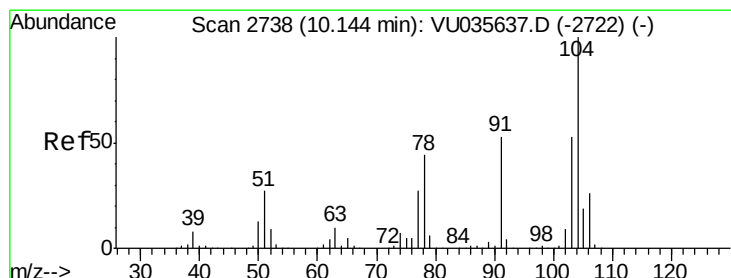
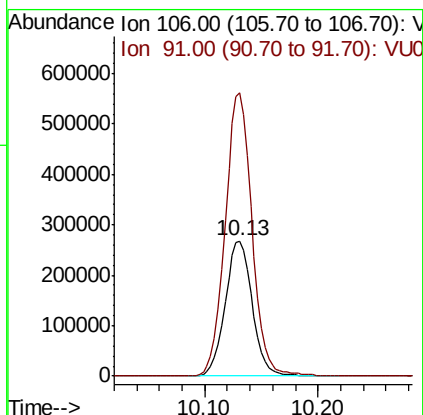
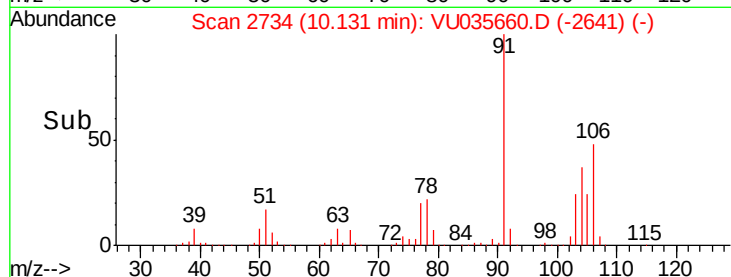
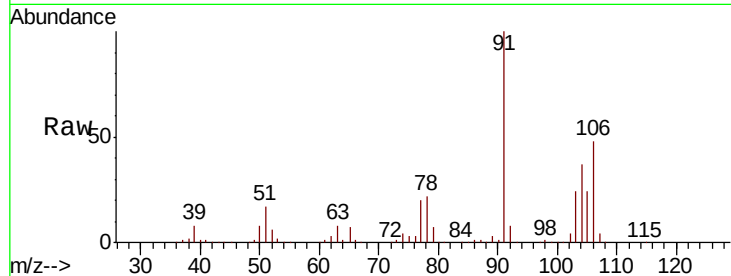
VSTD05039

Tot Ion:106 Resp: 445575

Ion Ratio Lower Upper

106 100

91 209.0 147.1 273.1



#55

Styrene

Concen: 54.097 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. 0.00 min

Lab File: VU035660.D

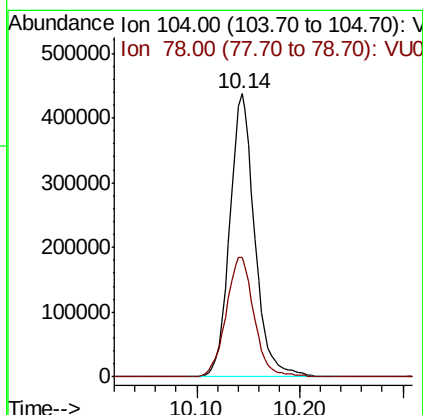
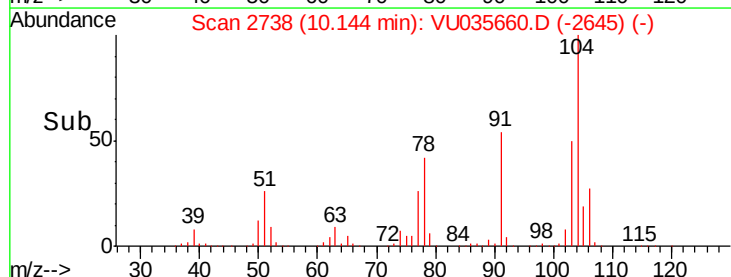
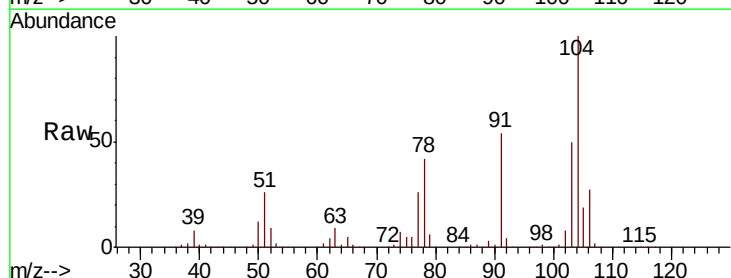
Acq: 07 Nov 2019 15:23

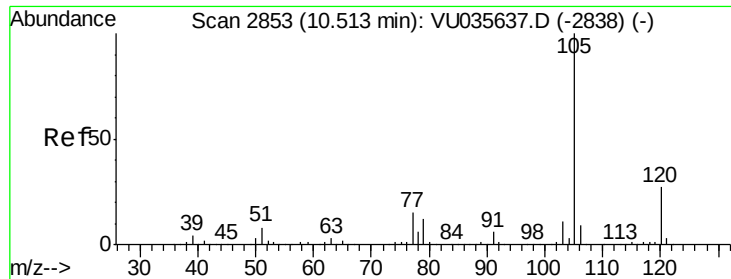
Tgt Ion:104 Resp: 739392

Ion Ratio Lower Upper

104 100

78 42.3 31.4 58.4





#56

Isopropylbenzene

Concen: 53.579 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

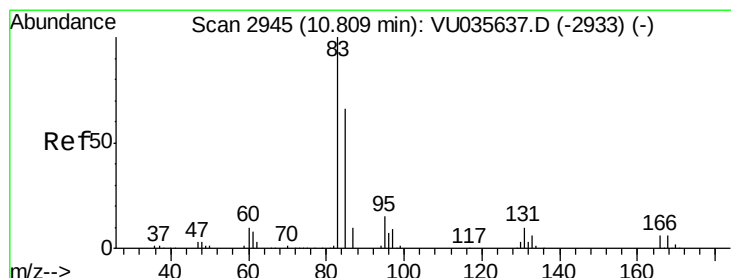
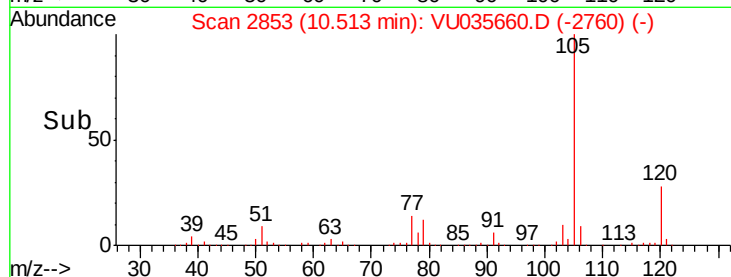
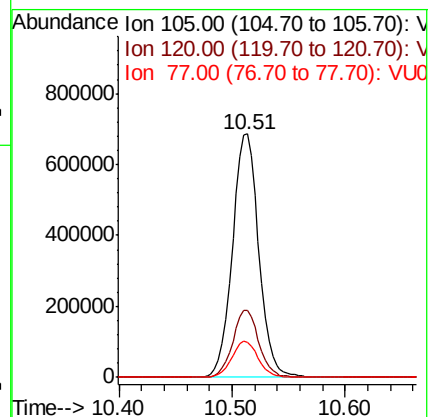
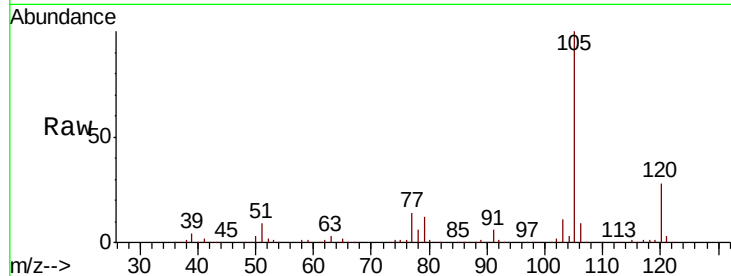
Tot Ion:105 Resp: 1108872

Ion Ratio Lower Upper

105 100

120 27.4 21.1 31.7

77 14.8 12.2 18.4



#58

1,1,2,2-Tetrachloroethane

Concen: 48.187 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

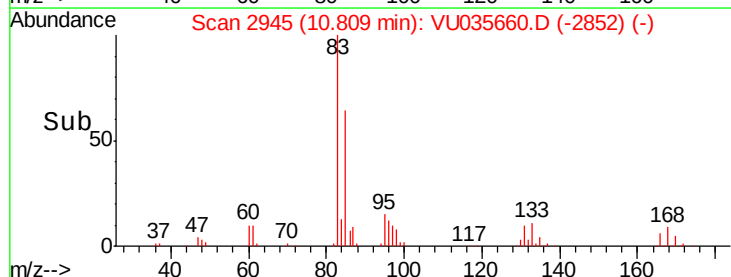
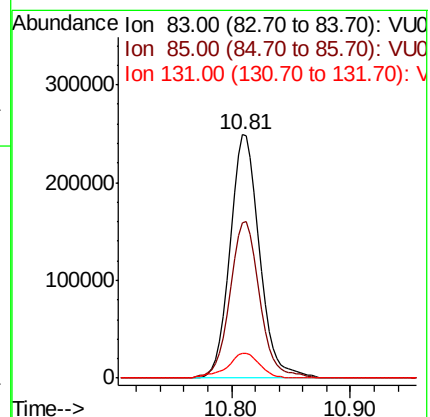
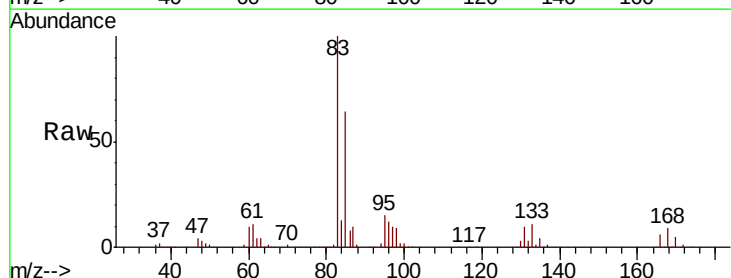
Tgt Ion: 83 Resp: 426978

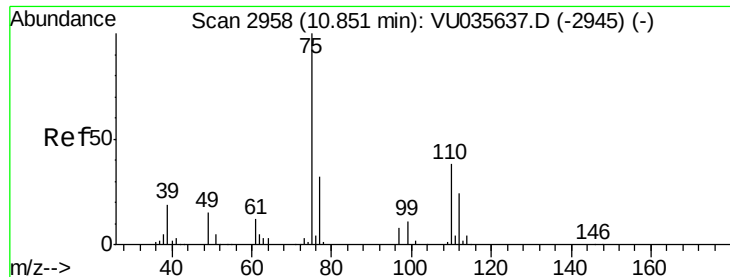
Ion Ratio Lower Upper

83 100

85 64.0 44.6 82.8

131 10.2 8.2 12.4





#59

1,2,3-Trichloropropane

Concen: 47.603 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

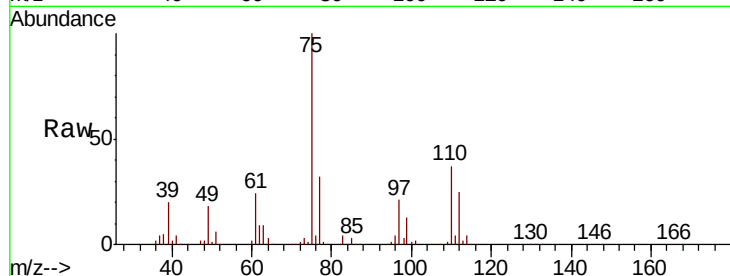
VSTD05039

Tot Ion: 75 Resp: 333127

Ion Ratio Lower Upper

75 100

77 32.2 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU035637.D (-2945) (-)

Ion 77.00 (76.70 to 77.70): VU035637.D (-2945) (-)

10.85

200000

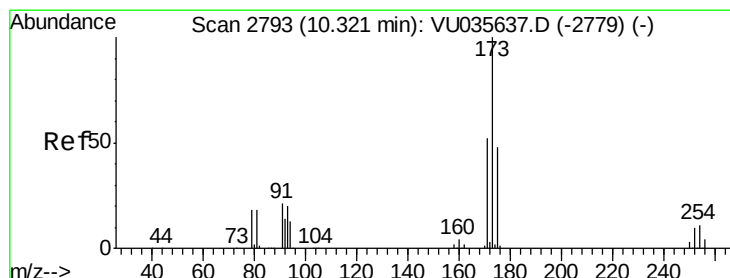
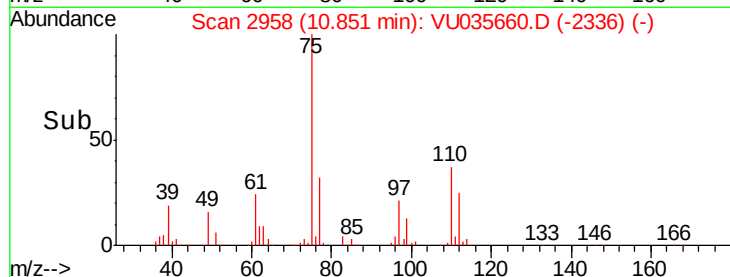
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 44.769 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

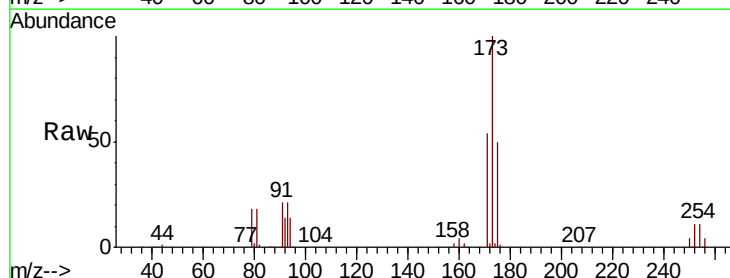
Tgt Ion: 173 Resp: 225924

Ion Ratio Lower Upper

173 100

175 48.8 39.4 59.0

254 10.2 8.1 12.1



Abundance Ion 173.00 (172.70 to 173.70): VU035637.D (-2779) (-)

Ion 175.00 (174.70 to 175.70): VU035637.D (-2779) (-)

Ion 254.00 (253.70 to 254.70): VU035637.D (-2779) (-)

10.32

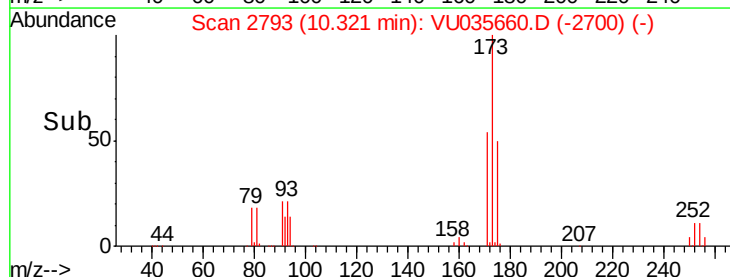
150000

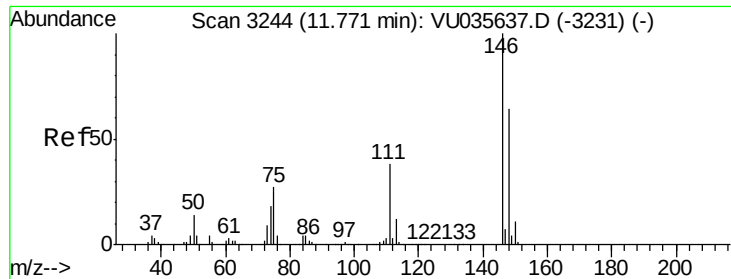
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 49.391 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

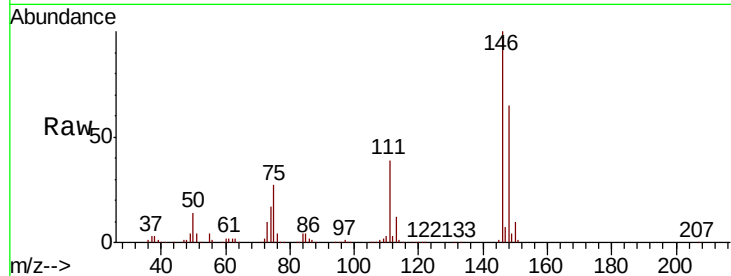
Tot Ion:146 Resp: 515403

Ion Ratio Lower Upper

146 100

111 38.5 27.8 51.6

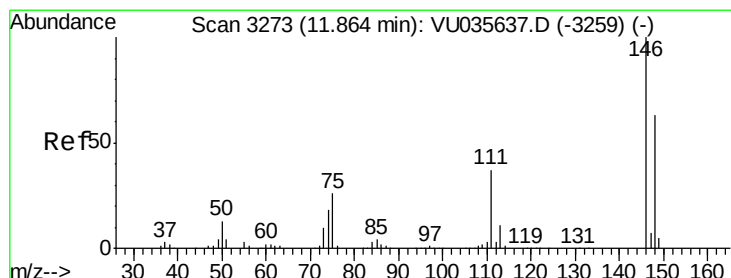
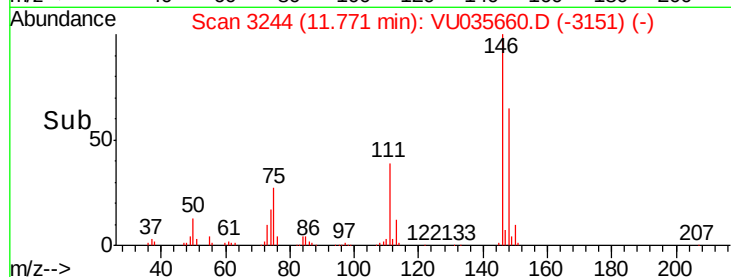
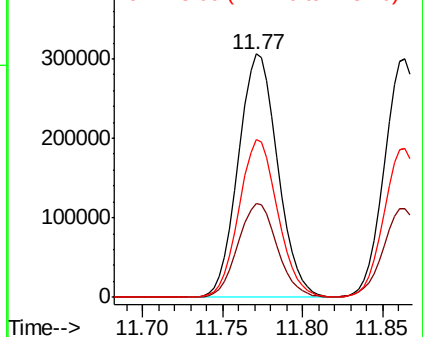
148 64.9 44.5 82.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 47.929 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

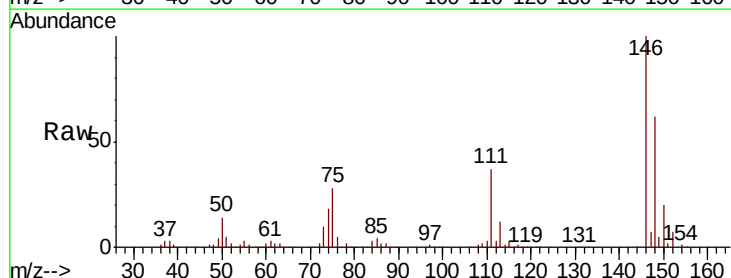
Tgt Ion:146 Resp: 508082

Ion Ratio Lower Upper

146 100

111 37.2 26.5 49.1

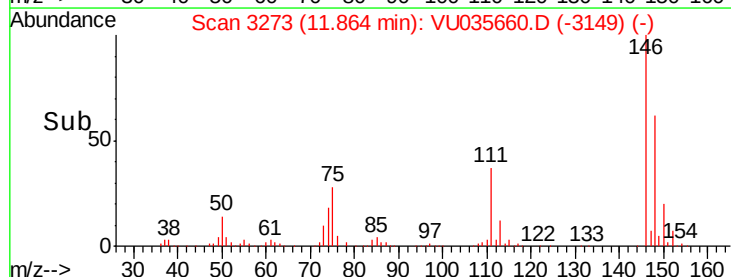
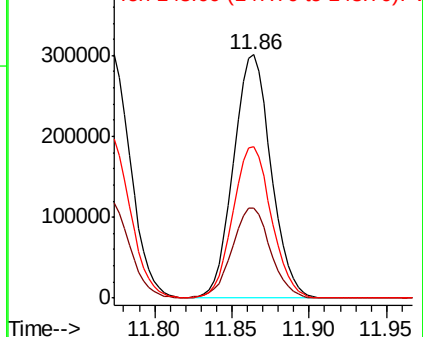
148 62.1 44.4 82.5

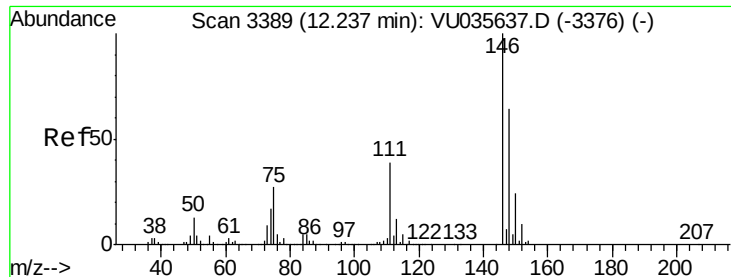


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

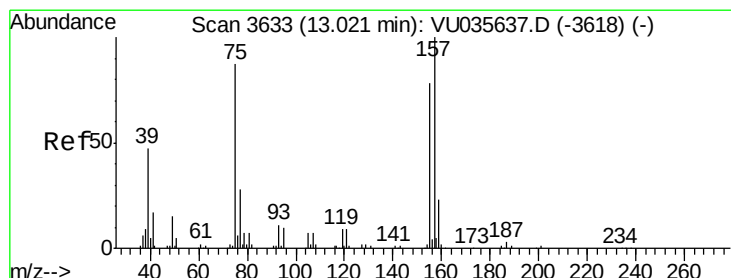
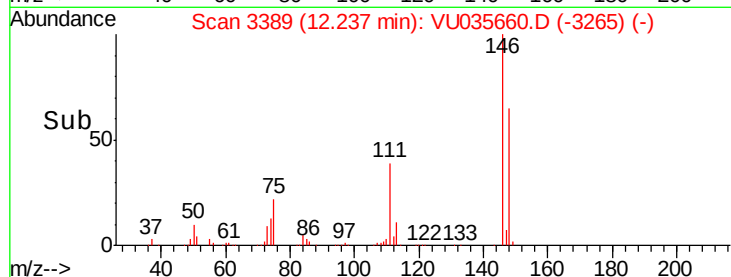
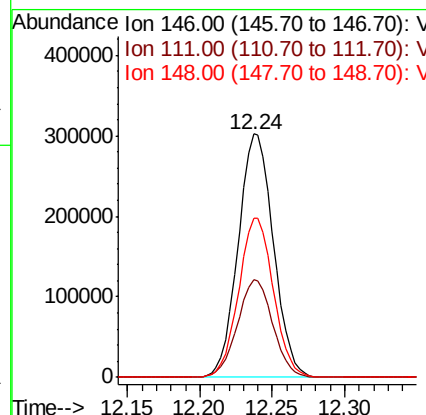
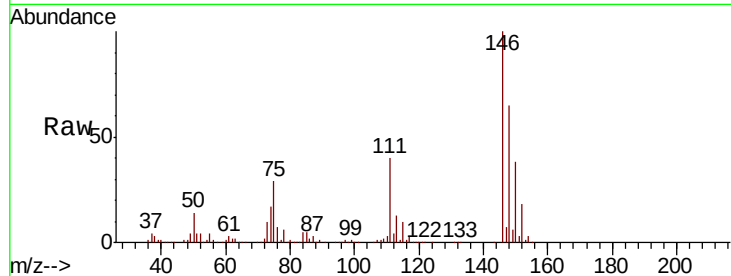




#65
 1,2-Dichlorobenzene
 Concen: 47.949 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU035660.D
 Acq: 07 Nov 2019 15:23

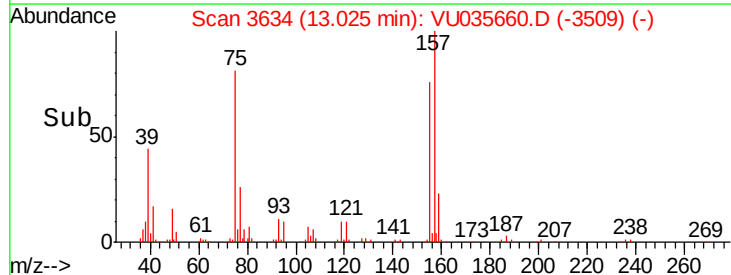
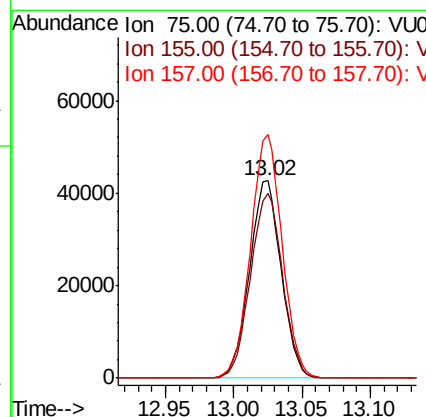
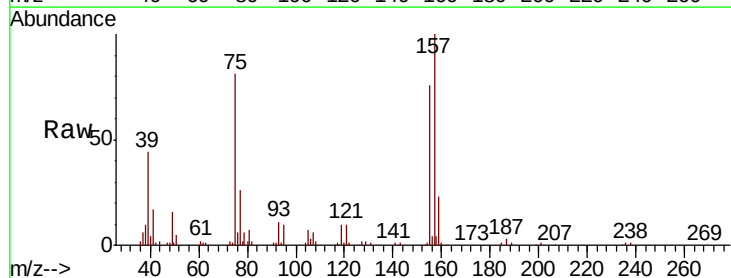
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

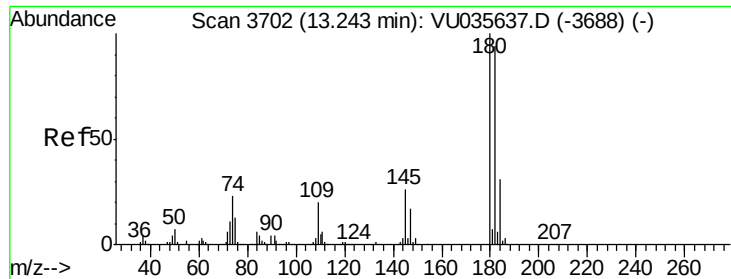
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	32.4	48.6
148	65.4	51.8	77.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 41.812 ug/L
 RT: 13.02 min Scan# 3634
 Delta R.T. 0.00 min
 Lab File: VU035660.D
 Acq: 07 Nov 2019 15:23

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.4	72.2	108.4
157	123.4	92.1	138.1

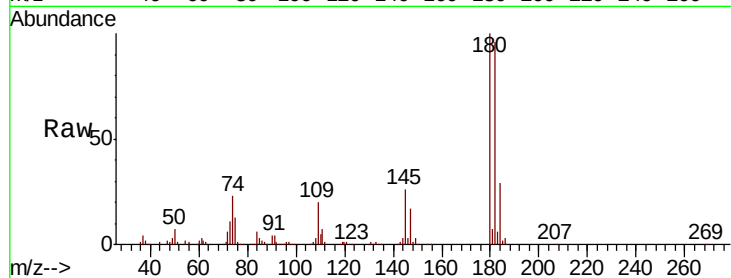




#67
 1,3,5-Trichlorobenzene
 Concen: 49.044 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU035660.D
 Acq: 07 Nov 2019 15:23

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

Tot Ion:180	Resp:	295667
Ion Ratio	Lower	Upper
180	100	
182	96.0	77.0 115.4
184	29.9	24.6 36.8
145	27.0	21.7 32.5



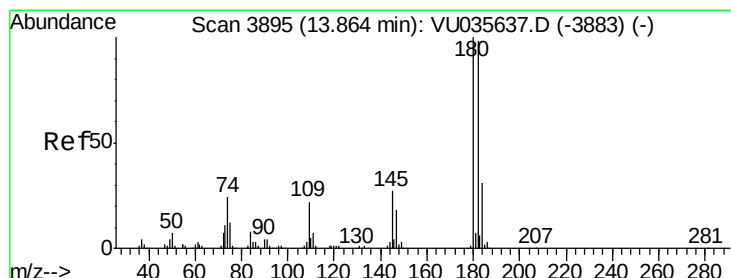
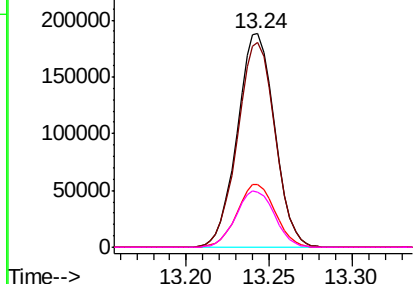
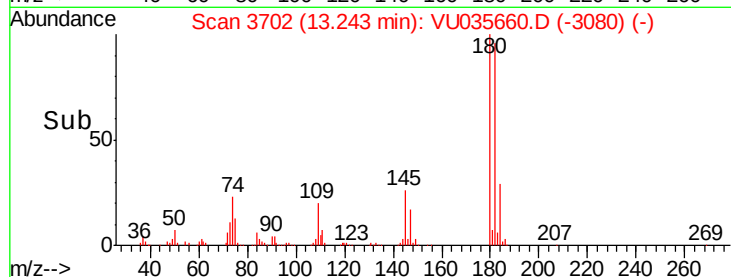
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

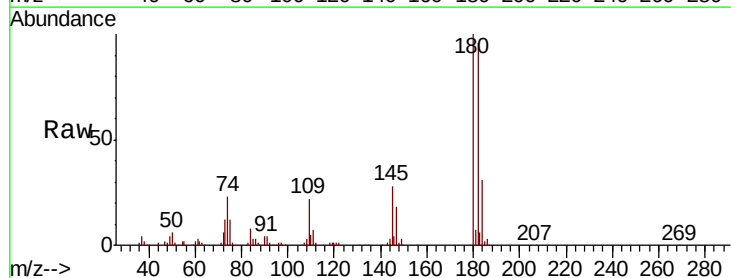
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 40.724 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. 0.00 min
 Lab File: VU035660.D
 Acq: 07 Nov 2019 15:23

Tgt Ion:180	Resp:	164458
Ion Ratio	Lower	Upper
180	100	
182	94.7	76.6 115.0
145	27.2	21.9 32.9

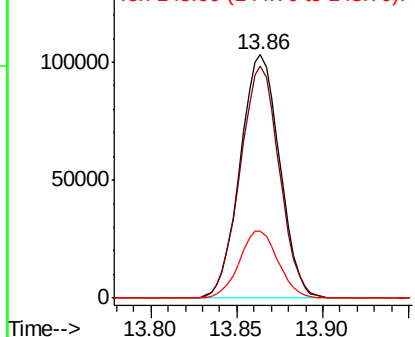
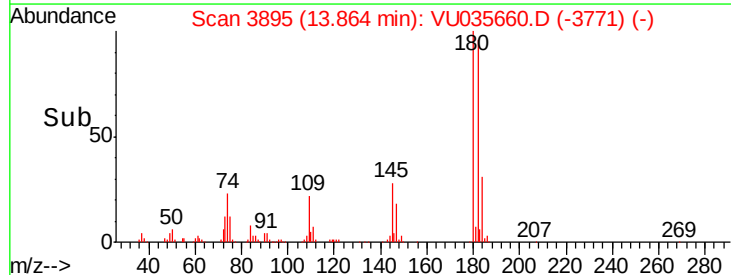


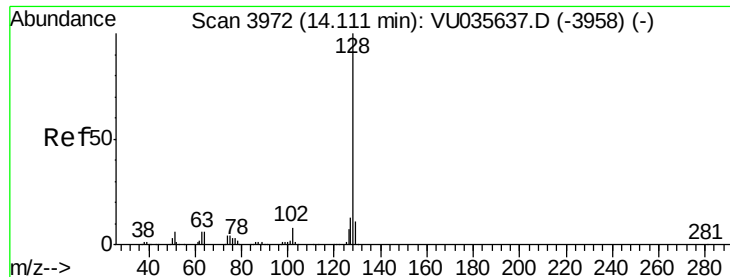
Abundance

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: 34.967 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

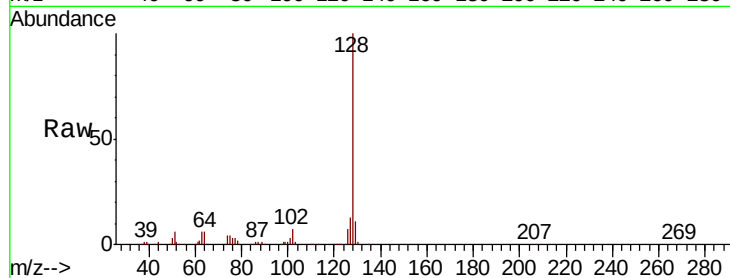
Tot Ion:128 Resp: 362198

Ion Ratio Lower Upper

128 100

127 13.1 10.7 16.1

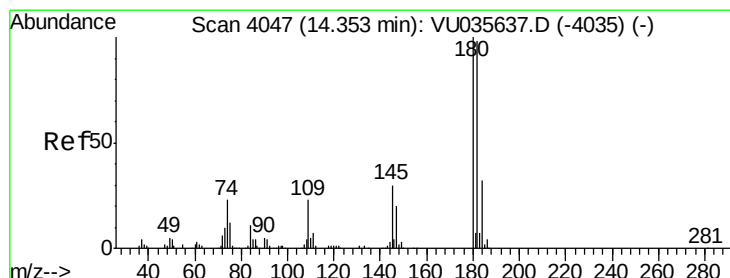
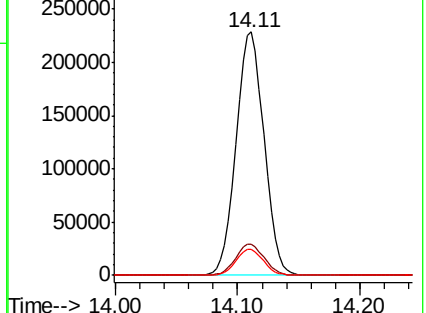
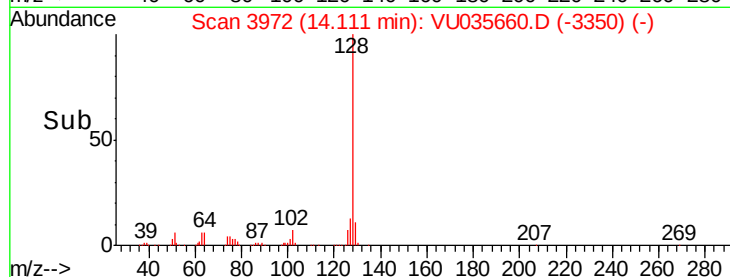
129 10.6 8.5 12.7



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: 39.635 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. 0.00 min

Lab File: VU035660.D

Acq: 07 Nov 2019 15:23

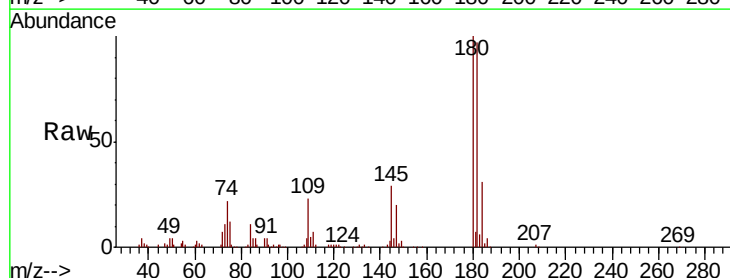
Tgt Ion:180 Resp: 172459

Ion Ratio Lower Upper

180 100

182 96.7 77.6 116.4

145 29.2 23.4 35.0



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

