

Data File : VU031816.D
Acq On : 08 May 2019 11:23
Operator : JC/SP
Sample : VSTD01008
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01008

Quant Time: May 09 01:26:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 09 01:21:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	338208	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	342353	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	164407	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	231186	8.82	ug/L	0.00
7) Chloroethane-d5	1.67	69	192087	9.41	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	490663	9.72	ug/L	0.00
20) 2-Butanone-d5	4.19	46	973823	129.17	ug/L	0.00
24) Chloroform-d	4.64	84	515359	11.75	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	286845	11.96	ug/L	0.00
32) Benzene-d6	5.33	84	928642	10.04	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	333252	10.89	ug/L	0.00
41) Toluene-d8	7.56	98	818888	10.01	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	124296	10.42	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	690877	118.65	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	268561	11.04	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	275132	9.63	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	383469	12.470 ug/L	99
3) Chloromethane	1.33	50	456176	12.243 ug/L	99
5) Vinyl chloride	1.40	62	389255	10.870 ug/L	99
6) Bromomethane	1.61	94	187436	10.382 ug/L	99
8) Chloroethane	1.69	64	209281	10.369 ug/L	99
9) Trichlorofluoromethane	1.88	101	464721	11.170 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	236948	10.096 ug/L	98
12) 1,1-Dichloroethene	2.28	96	224074	9.604 ug/L	95
13) Acetone	2.32	43	598267	113.152 ug/L	98
14) Carbon disulfide	2.47	76	780319	10.039 ug/L	98
15) Methyl Acetate	2.61	43	147934	10.291 ug/L	98
16) Methylene chloride	2.69	84	264418	9.820 ug/L	98
17) Methyl tert-butyl Ether	3.00	73	678896	10.276 ug/L	98
18) trans-1,2-Dichloroethene	2.97	96	242032	9.919 ug/L	92
19) 1,1-Dichloroethane	3.43	63	612460	12.291 ug/L	99
21) 2-Butanone	4.27	43	1095400	133.308 ug/L	99
22) cis-1,2-Dichloroethene	4.22	96	298228	11.363 ug/L	97
23) Bromochloromethane	4.54	128	118274	10.636 ug/L	96
25) Chloroform	4.67	83	571403	12.321 ug/L	96
27) 1,2-Dichloroethane	5.40	62	400150	13.029 ug/L	97
29) 1,1,1-Trichloroethane	4.90	97	469280	11.514 ug/L	99
30) Cyclohexane	4.98	56	544344	11.321 ug/L	99
31) Carbon tetrachloride	5.12	117	401425	11.541 ug/L	99
33) Benzene	5.38	78	1237538	11.318 ug/L	100
34) Trichloroethene	6.18	95	302846	10.667 ug/L	98
35) Methylcyclohexane	6.41	83	477972	11.421 ug/L	97
37) 1,2-Dichloropropane	6.43	63	349824	11.726 ug/L	100
38) Bromodichloromethane	6.75	83	405317	11.685 ug/L	93
39) cis-1,3-Dichloropropene	7.26	75	460074	11.458 ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	2614777	129.085 ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	1302830	11.815	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	375484	11.992	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	209402	10.861	ug/L	97
47) Tetrachloroethene	8.22	164	197407	10.211	ug/L	97
48) 2-Hexanone	8.36	43	1911690	133.982	ug/L	99
49) Dibromochloromethane	8.47	129	237039	10.815	ug/L	99
50) 1,2-Dibromoethane	8.58	107	194199	10.539	ug/L	94
51) Chlorobenzene	9.12	112	722330	11.026	ug/L	98
52) Ethylbenzene	9.24	91	1363248	11.793	ug/L	99
53) m,p-Xylene	9.37	106	494378	11.944	ug/L	96
54) o-Xylene	9.77	106	474094	11.734	ug/L	96
55) Styrene	9.79	104	842957	12.525	ug/L	100
56) Isopropylbenzene	10.16	105	1283469	12.010	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.45	83	281722	11.312	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	203543	11.158	ug/L	99
61) Bromoform	9.95	173	128424	10.065	ug/L	97
62) 1,3-Dichlorobenzene	11.41	146	523985	10.728	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	542298	10.649	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	521097	10.733	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	48402	11.822	ug/L	88
67) 1,3,5-Trichlorobenzene	12.88	180	405647	10.869	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	315587	10.840	ug/L	97
69) Naphthalene	13.74	128	605846	11.035	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	310898	10.901	ug/L	97

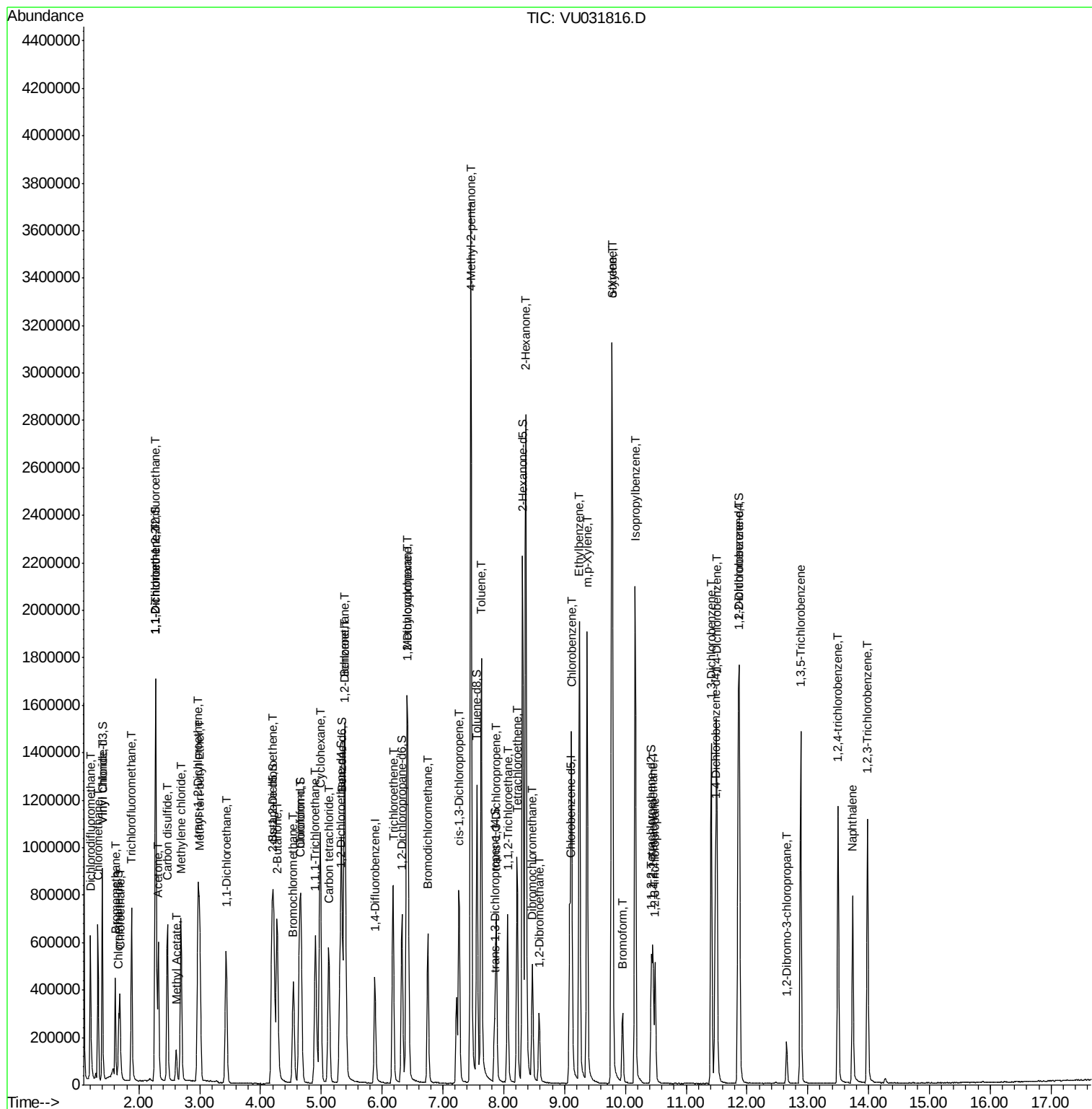
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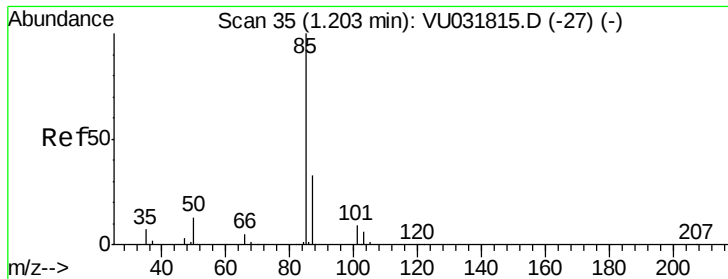
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#2

Dichlorodifluoromethane

Concen: 12.470 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

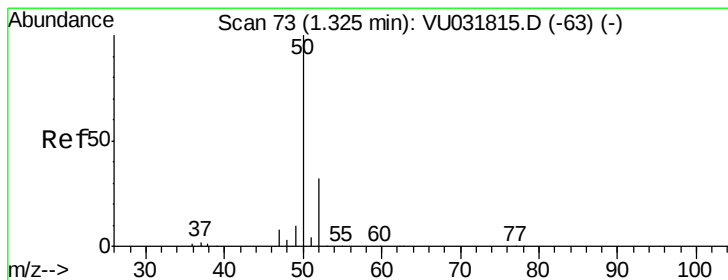
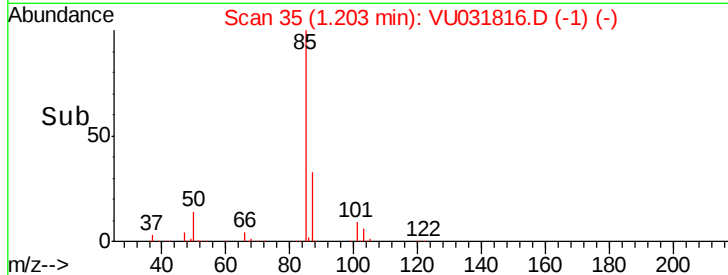
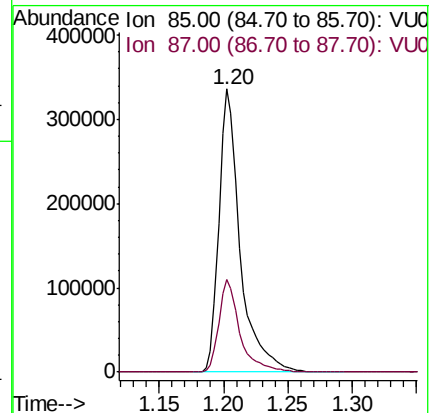
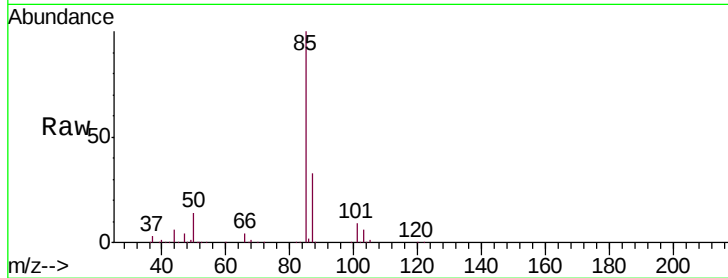
VSTD01008

Tgt Ion: 85 Resp: 383469

Ion Ratio Lower Upper

85 100

87 32.4 26.2 39.4



#3

Chloromethane

Concen: 12.243 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU031816.D

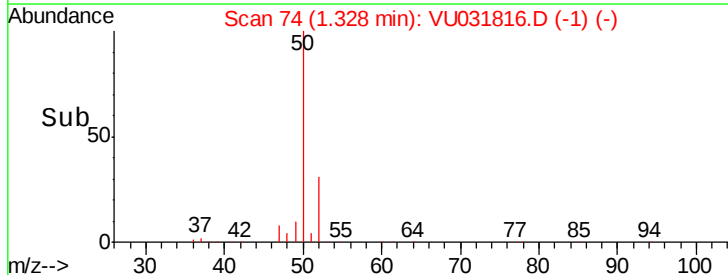
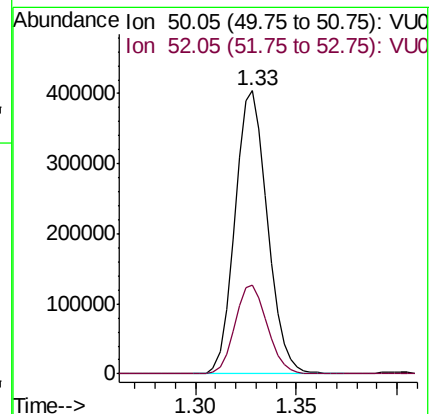
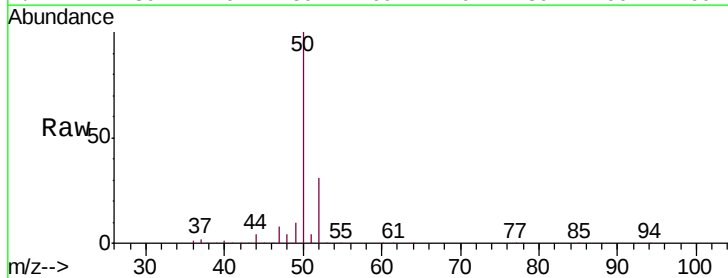
Acq: 08 May 2019 11:23

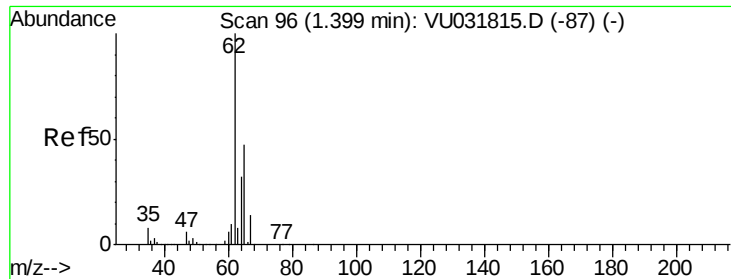
Tgt Ion: 50 Resp: 456176

Ion Ratio Lower Upper

50 100

52 31.4 22.5 41.7





#5

Vinyl chloride

Concen: 10.870 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

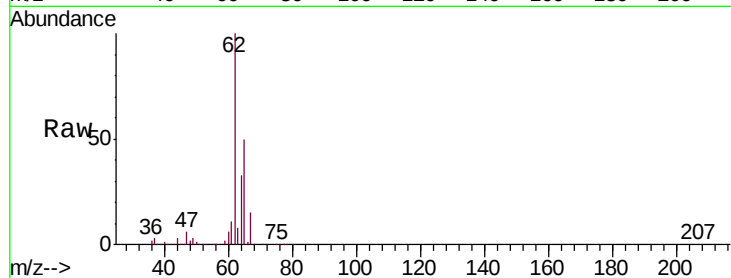
VSTD01008

Tgt Ion: 62 Resp: 389255

Ion Ratio Lower Upper

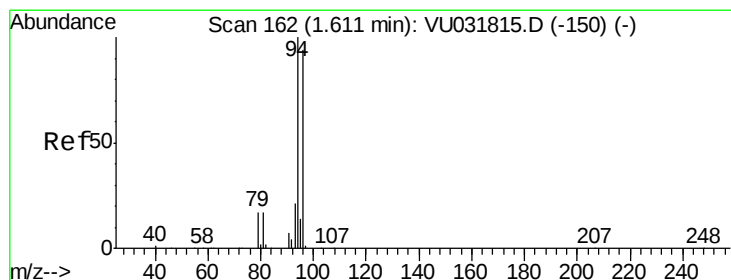
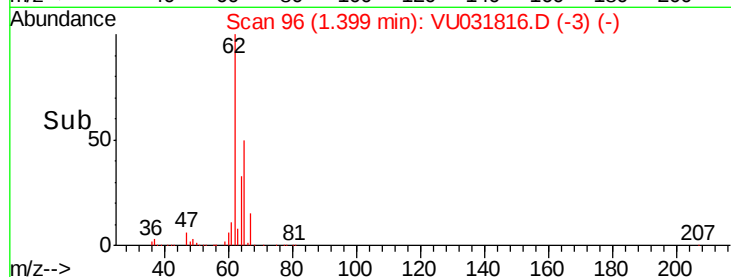
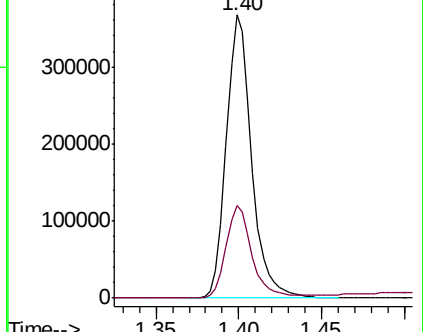
62 100

64 32.7 22.5 41.9



Abundance Ion 62.00 (61.70 to 62.70): VU031816.D (-96) (-)

Ion 64.10 (63.80 to 64.80): VU031816.D (-96) (-)



#6

Bromomethane

Concen: 10.382 ug/L

RT: 1.61 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU031816.D

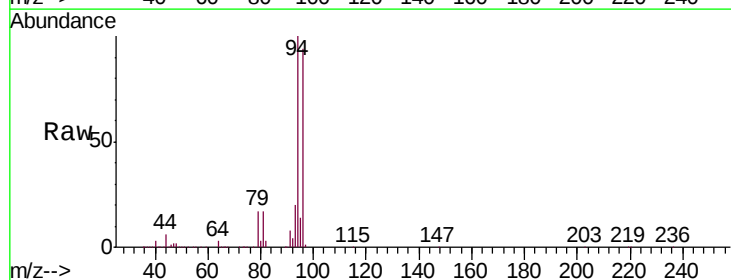
Acq: 08 May 2019 11:23

Tgt Ion: 94 Resp: 187436

Ion Ratio Lower Upper

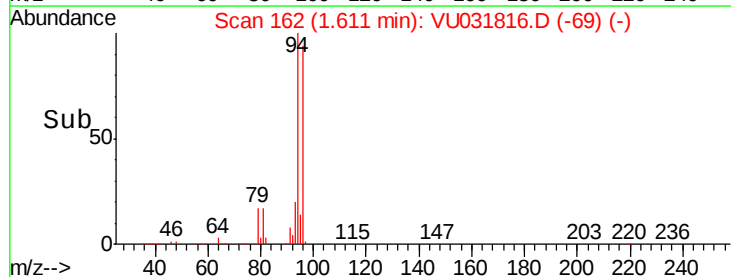
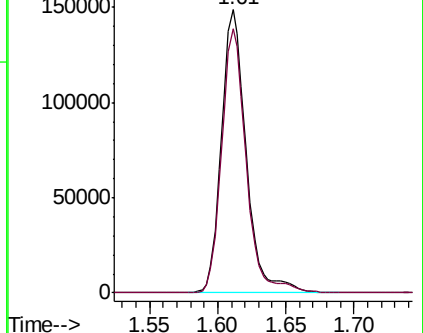
94 100

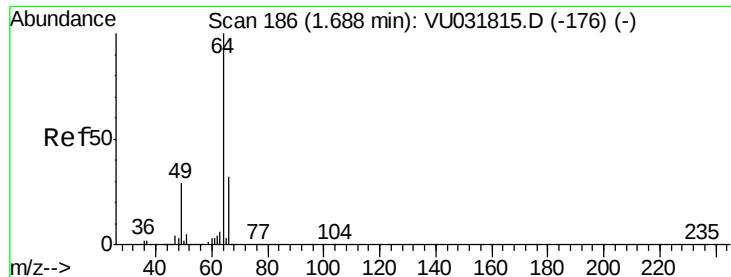
96 93.5 66.1 122.8



Abundance Ion 94.00 (93.70 to 94.70): VU031816.D (-162) (-)

Ion 96.00 (95.70 to 96.70): VU031816.D (-162) (-)





#8

Chloroethane

Concen: 10.369 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

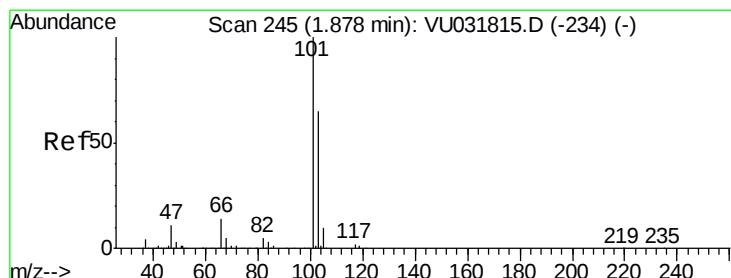
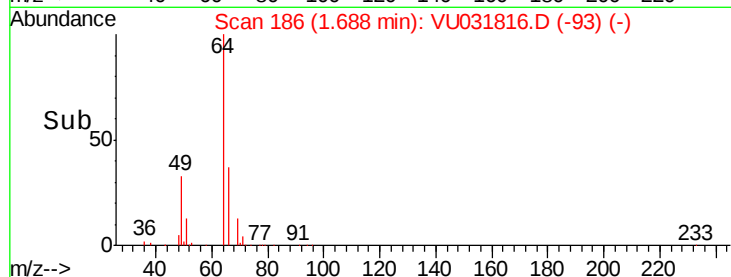
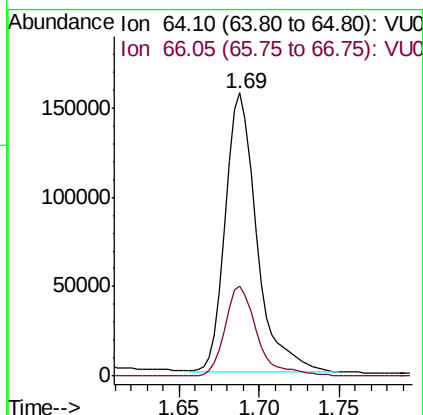
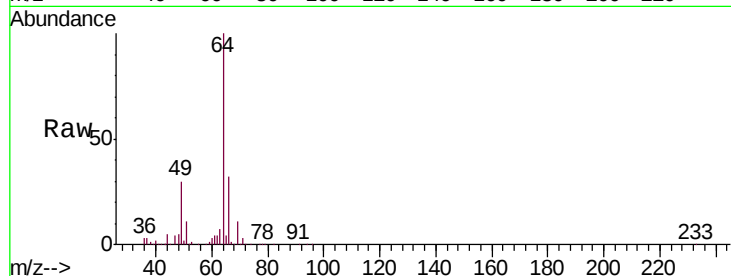
VSTD01008

Tgt Ion: 64 Resp: 209281

Ion Ratio Lower Upper

64 100

66 32.0 21.9 40.7



#9

Trichlorofluoromethane

Concen: 11.170 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU031816.D

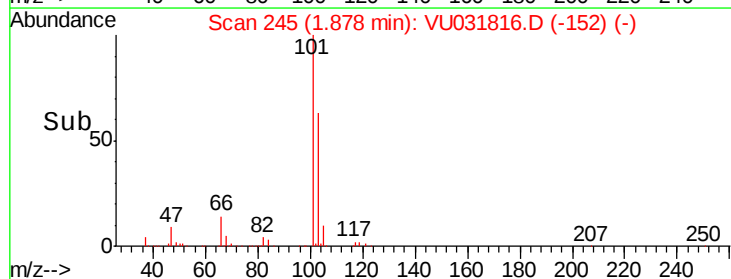
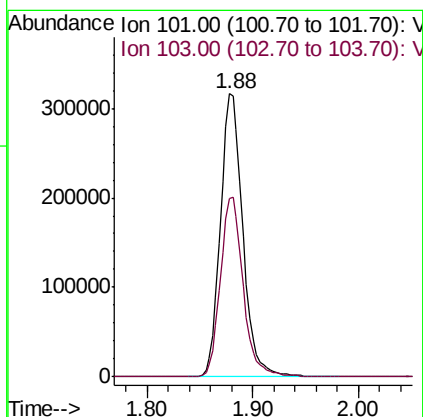
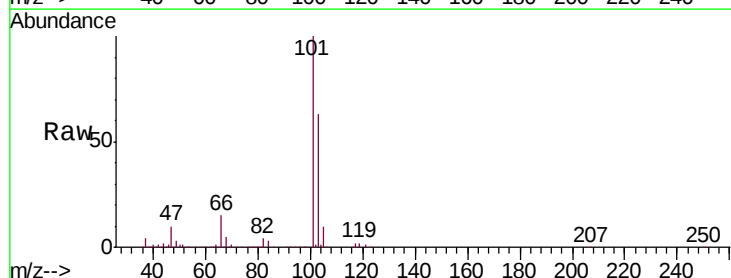
Acq: 08 May 2019 11:23

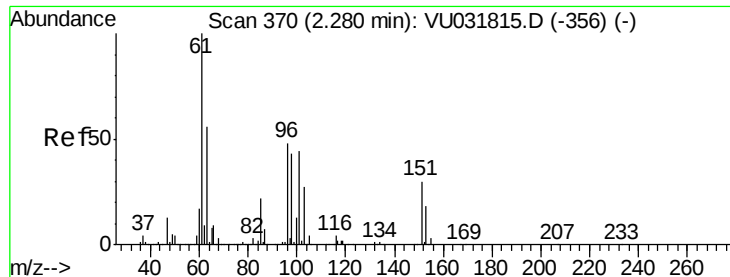
Tgt Ion: 101 Resp: 464721

Ion Ratio Lower Upper

101 100

103 64.8 52.1 78.1





#10

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

Concen: 10.096 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD01008

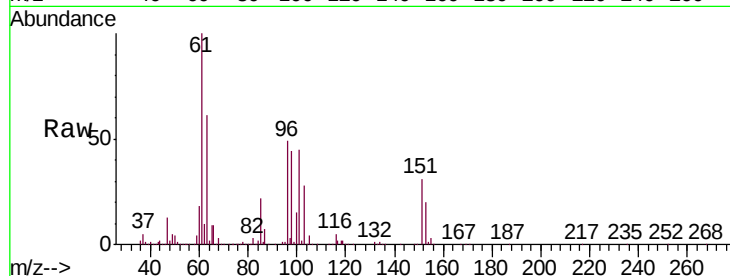
Tgt Ion: 101 Resp: 236948

Ion Ratio Lower Upper

101 100

85 47.8 40.0 60.0

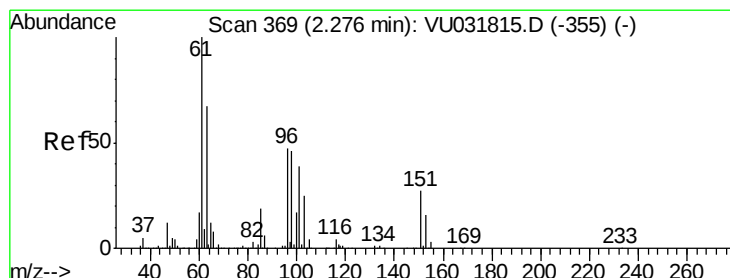
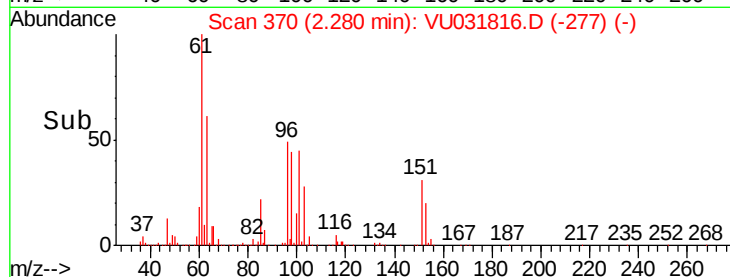
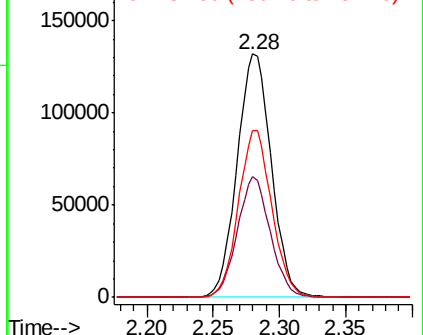
151 66.8 54.6 82.0



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: 9.604 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

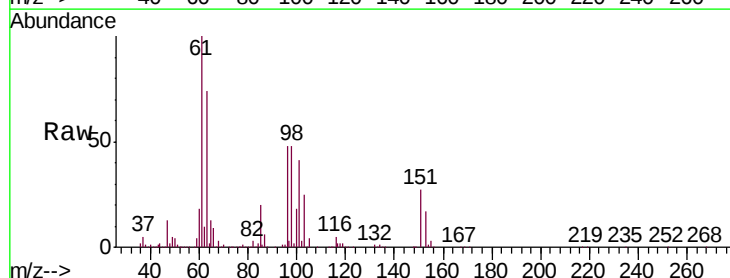
Tgt Ion: 96 Resp: 224074

Ion Ratio Lower Upper

96 100

61 209.2 149.0 276.6

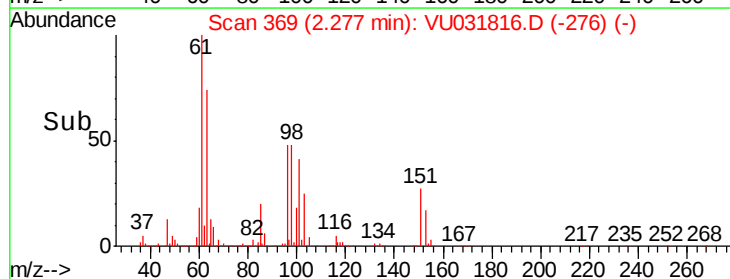
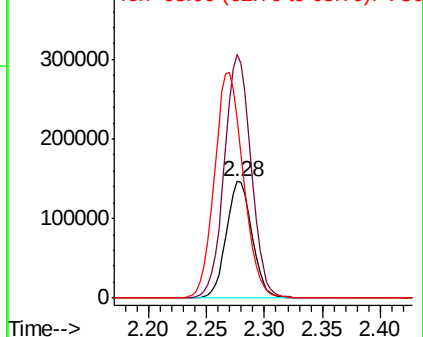
63 154.1 99.8 185.4

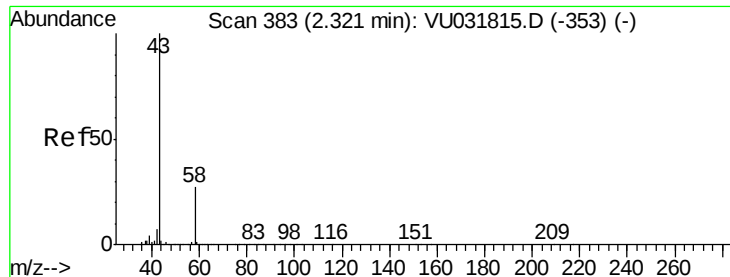


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 113.152 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

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ClientSampleId :

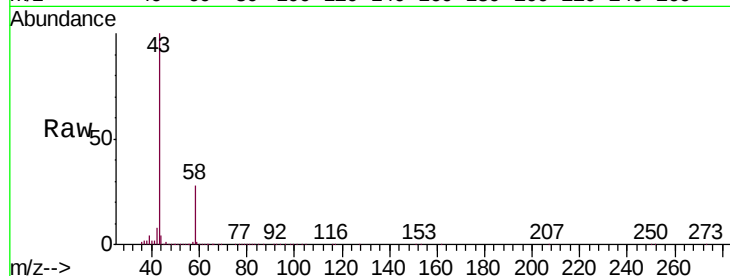
VSTD01008

Tgt Ion: 43 Resp: 598267

Ion Ratio Lower Upper

43 100

58 28.0 0.0 53.6



Abundance Ion 43.05 (42.75 to 43.75): VU031815.D (-353) (-)

Ion 58.05 (57.75 to 58.75): VU031815.D (-353) (-)

2.32

400000

300000

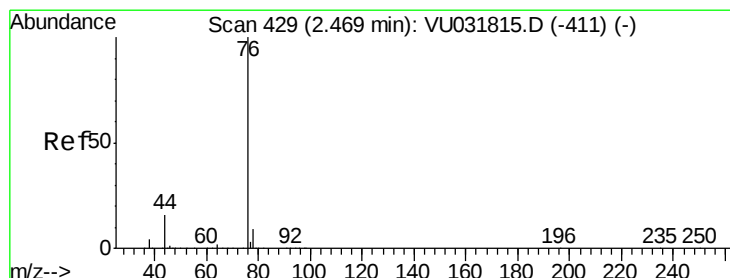
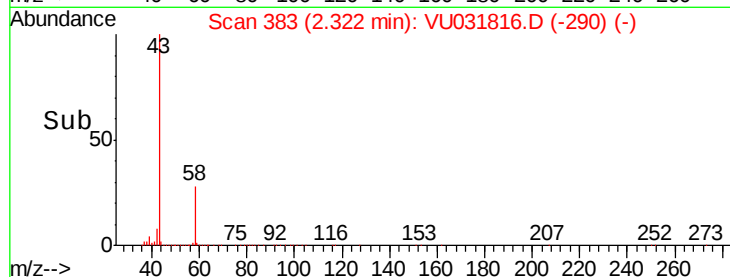
200000

100000

0

2.20 2.30 2.40

Time-->



#14

Carbon disulfide

Concen: 10.039 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VU031816.D

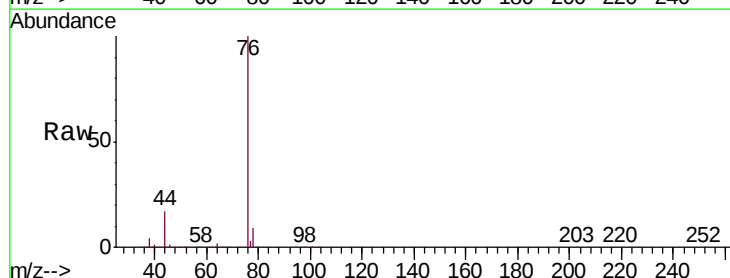
Acq: 08 May 2019 11:23

Tgt Ion: 76 Resp: 780319

Ion Ratio Lower Upper

76 100

78 8.5 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU031815.D (-411) (-)

Ion 78.00 (77.70 to 78.70): VU031815.D (-411) (-)

2.47

500000

400000

300000

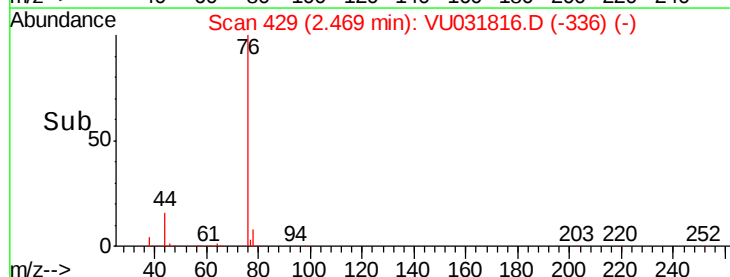
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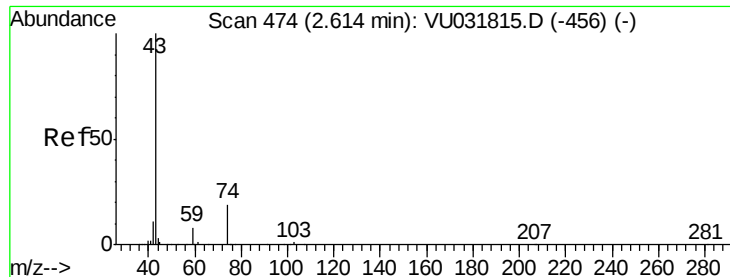
100000

0

2.40 2.50 2.60

Time-->

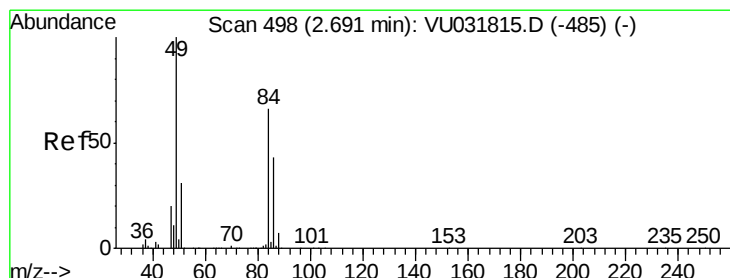
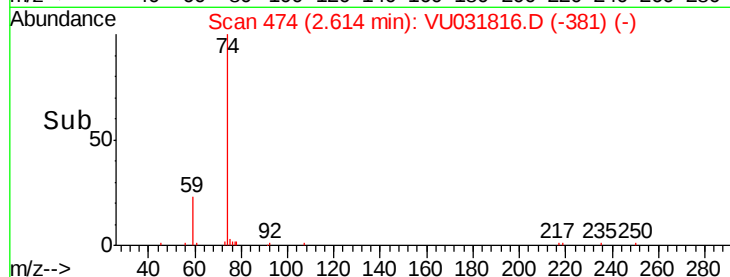
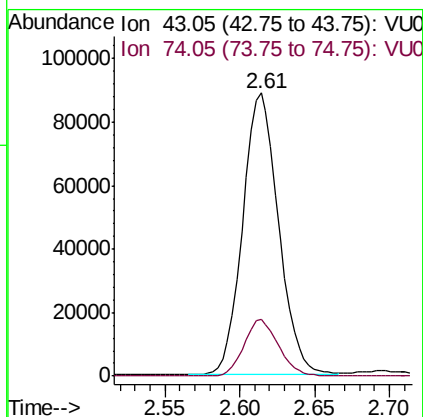
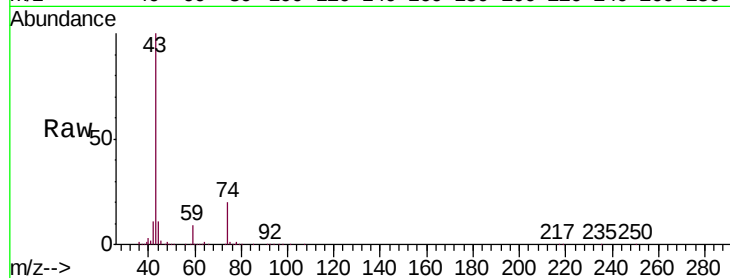




#15
Methyl Acetate
Concen: 10.291 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU031816.D
Acq: 08 May 2019 11:23

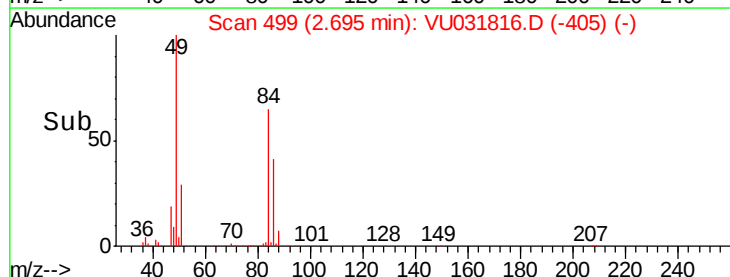
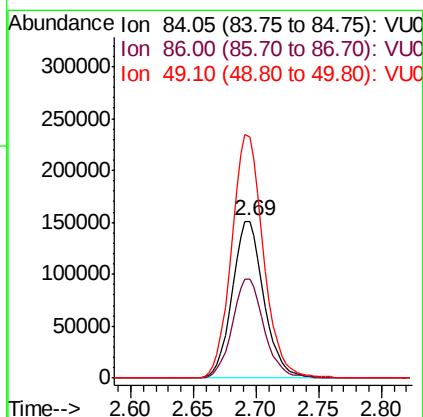
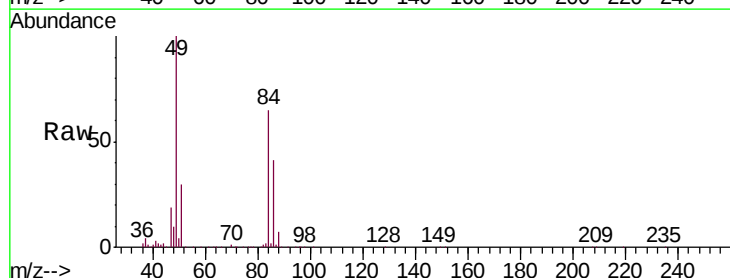
Instrument :
MSVOA_U
ClientSampleId :
VSTD01008

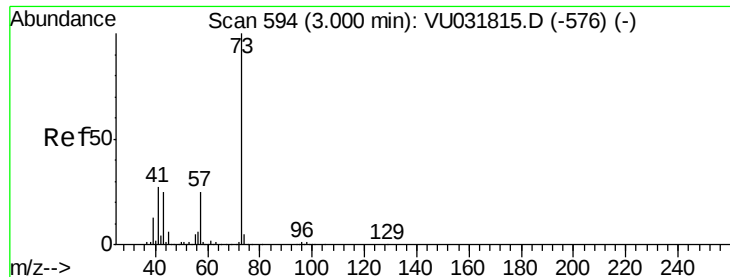
Tgt Ion: 43 Resp: 147934
Ion Ratio Lower Upper
43 100
74 19.4 14.7 22.1



#16
Methylene chloride
Concen: 9.820 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU031816.D
Acq: 08 May 2019 11:23

Tgt Ion: 84 Resp: 264418
Ion Ratio Lower Upper
84 100
86 63.0 45.6 84.8
49 154.2 106.7 198.1



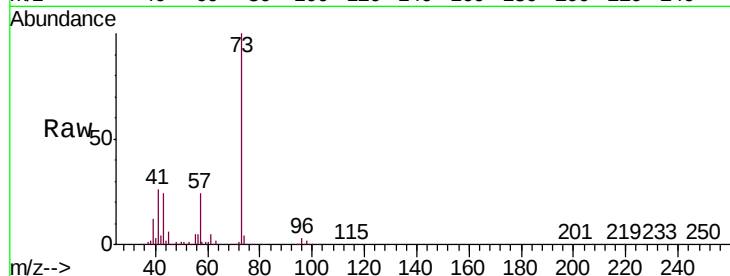


#17

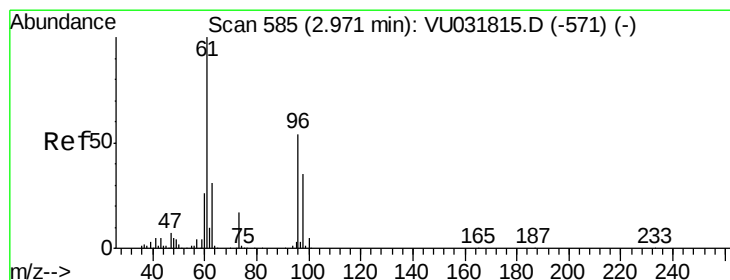
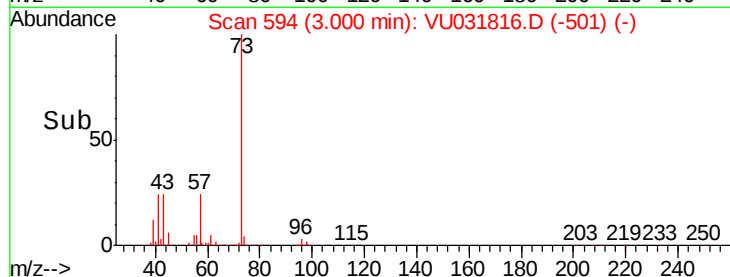
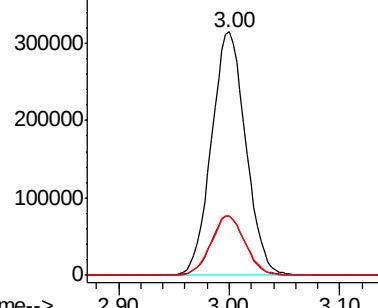
Methyl tert-butyl Ether
 Concen: 10.276 ug/L
 RT: 3.00 min Scan# 594
 Delta R.T. 0.00 min
 Lab File: VU031816.D
 Acq: 08 May 2019 11:23

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01008

Tgt Ion	Ratio	Lower	Upper
73	100		
43	24.0	20.5	30.7
57	24.3	19.9	29.9



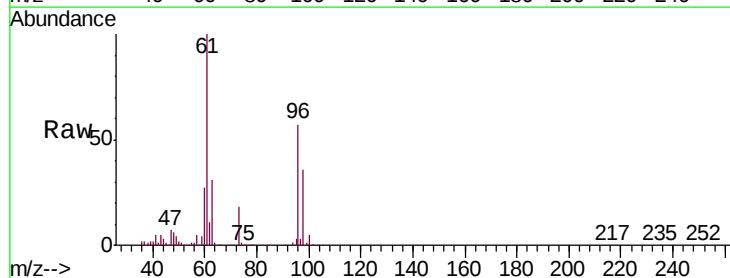
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



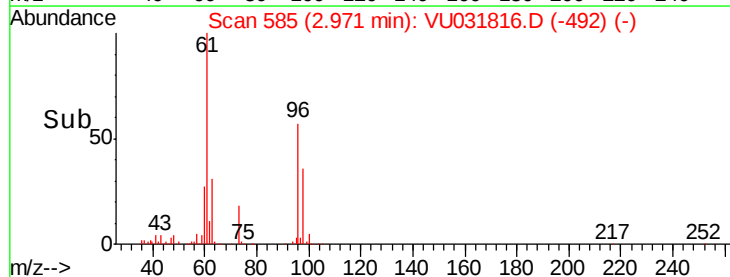
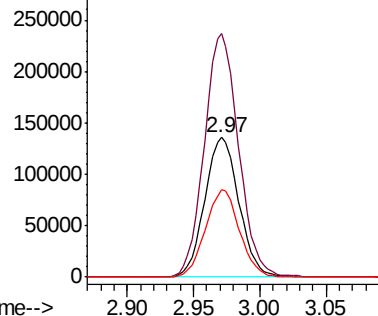
#18

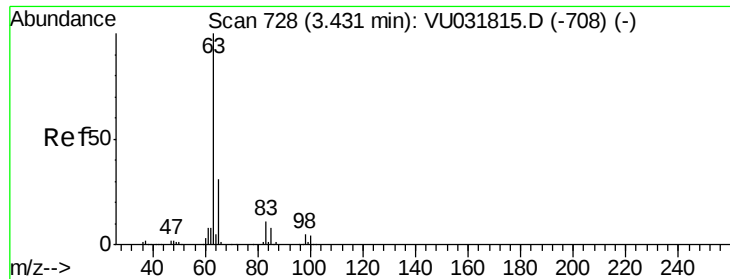
trans-1,2-Dichloroethene
 Concen: 9.919 ug/L
 RT: 2.97 min Scan# 585
 Delta R.T. 0.00 min
 Lab File: VU031816.D
 Acq: 08 May 2019 11:23

Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.4	130.9	243.1
98	62.5	46.2	85.8



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0

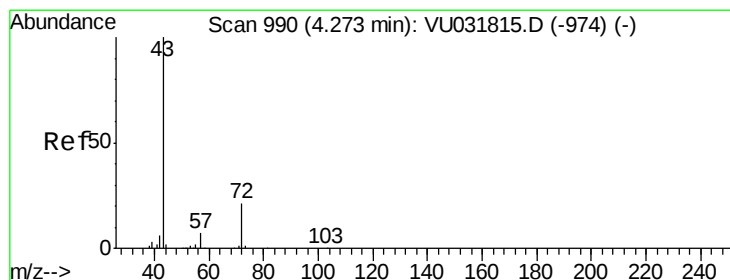
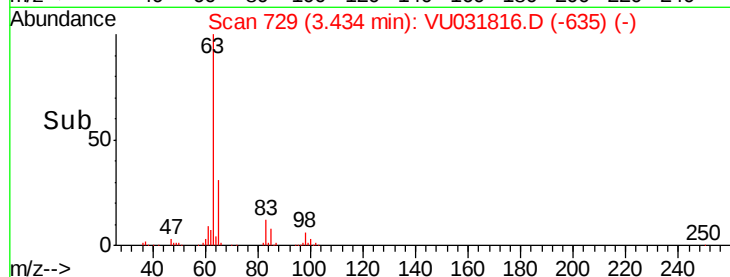
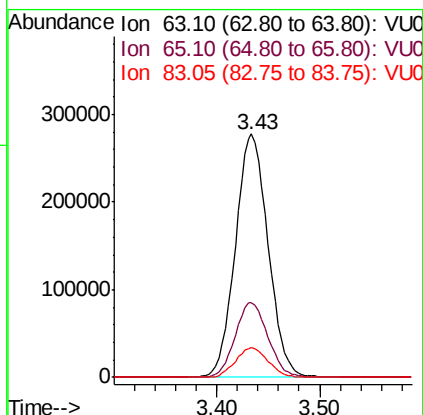
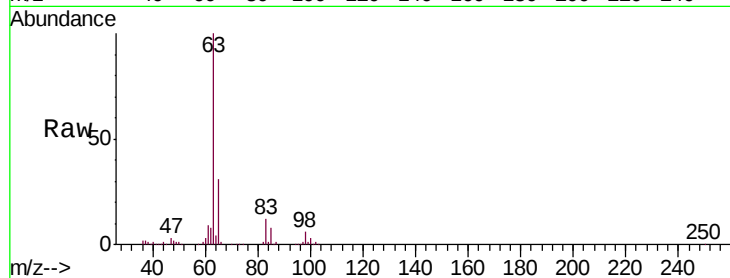




#19
 1,1-Dichloroethane
 Concen: 12.291 ug/L
 RT: 3.43 min Scan# 729
 Delta R.T. 0.00 min
 Lab File: VU031816.D
 Acq: 08 May 2019 11:23

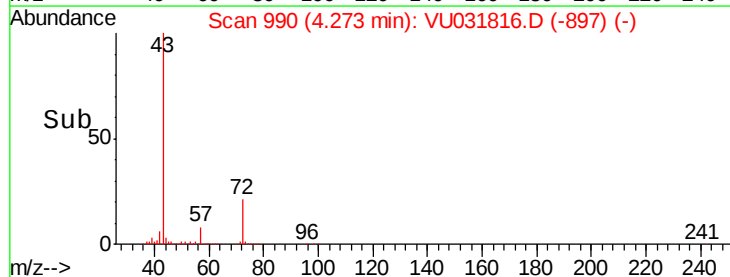
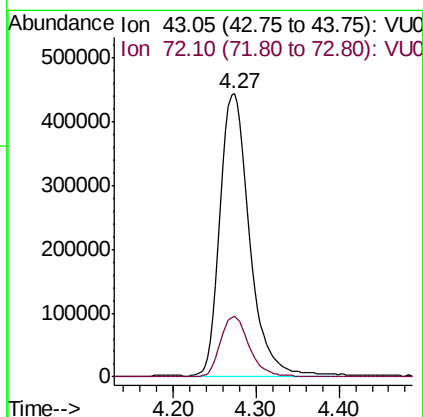
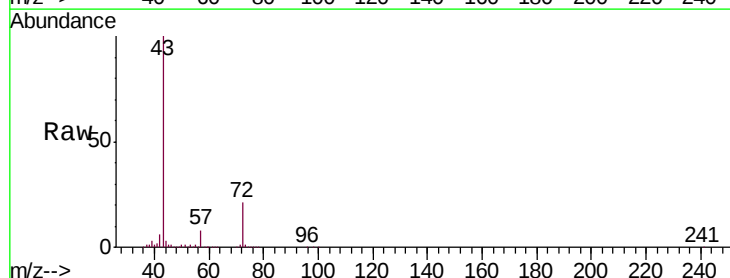
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01008

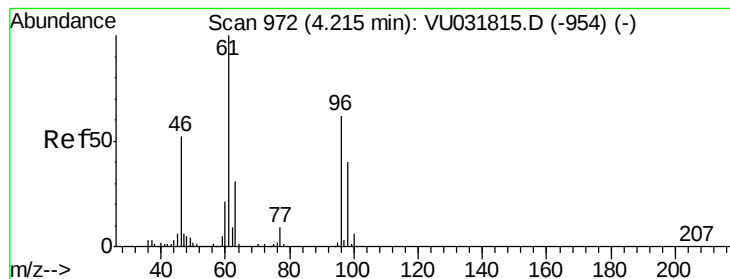
Tgt Ion: 63 Resp: 612460
 Ion Ratio Lower Upper
 63 100
 65 30.6 21.8 40.4
 83 12.3 7.9 14.7



#21
 2-Butanone
 Concen: 133.308 ug/L
 RT: 4.27 min Scan# 990
 Delta R.T. 0.00 min
 Lab File: VU031816.D
 Acq: 08 May 2019 11:23

Tgt Ion: 43 Resp: 1095400
 Ion Ratio Lower Upper
 43 100
 72 21.3 10.4 31.1



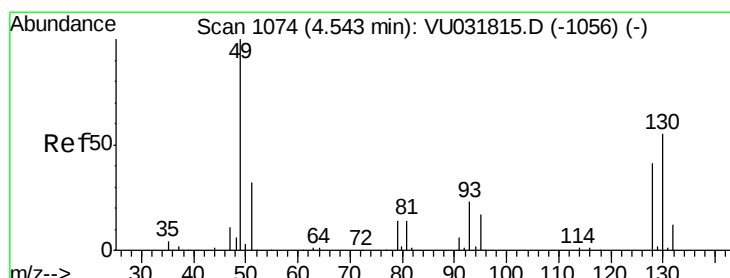
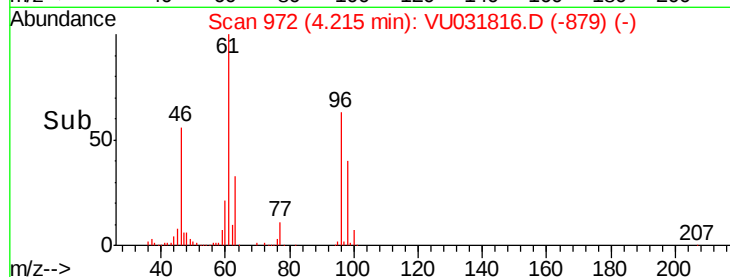
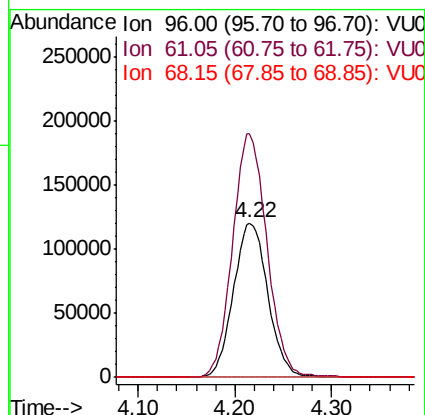
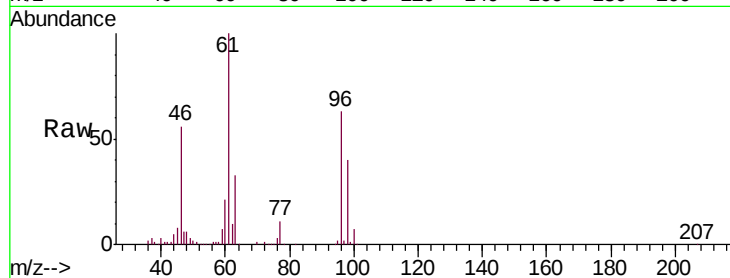


#22

cis-1,2-Dichloroethene
Concen: 11.363 ug/L
RT: 4.22 min Scan# 972
Delta R.T. 0.00 min
Lab File: VU031816.D
Acq: 08 May 2019 11:23

Instrument :
MSVOA_U
ClientSampleId :
VSTD01008

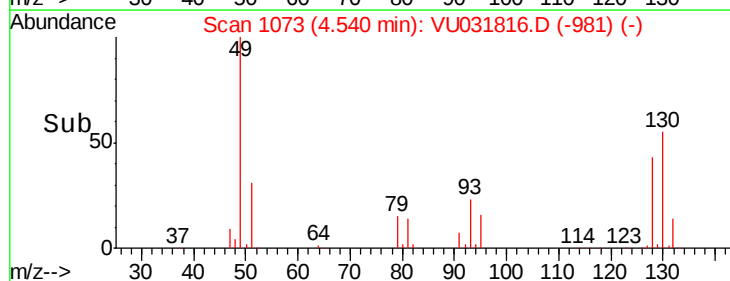
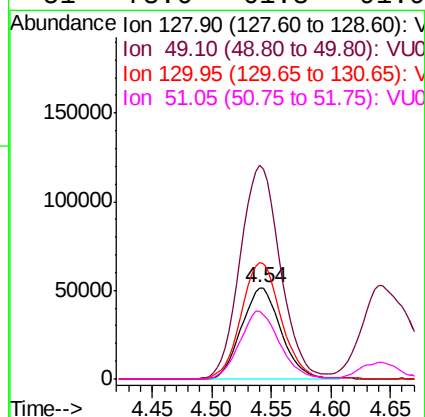
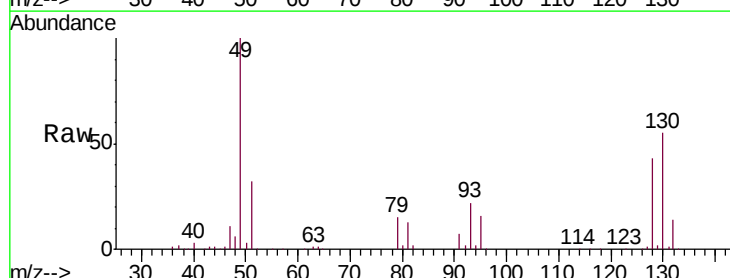
Tgt Ion: 96 Resp: 298228
Ion Ratio Lower Upper
96 100
61 157.9 113.3 210.5
68 0.0 0.0 0.0

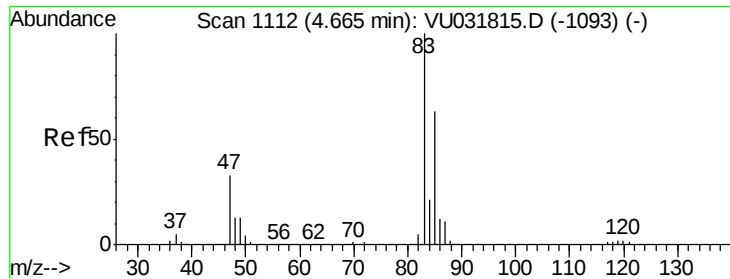


#23

Bromochloromethane
Concen: 10.636 ug/L
RT: 4.54 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VU031816.D
Acq: 08 May 2019 11:23

Tgt Ion: 128 Resp: 118274
Ion Ratio Lower Upper
128 100
49 233.3 168.8 313.4
130 127.2 93.0 172.8
51 73.6 61.3 91.9

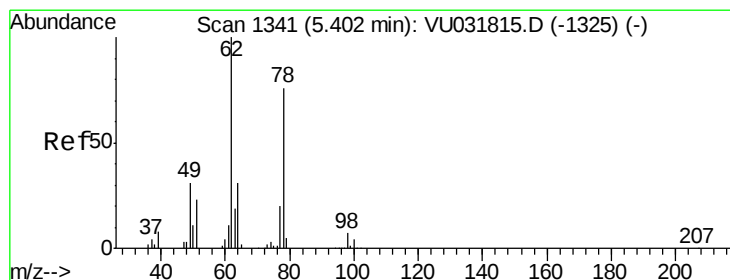
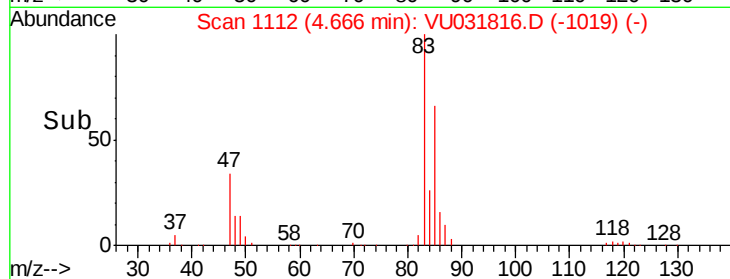
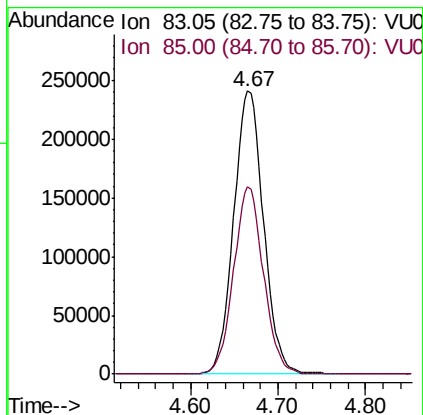
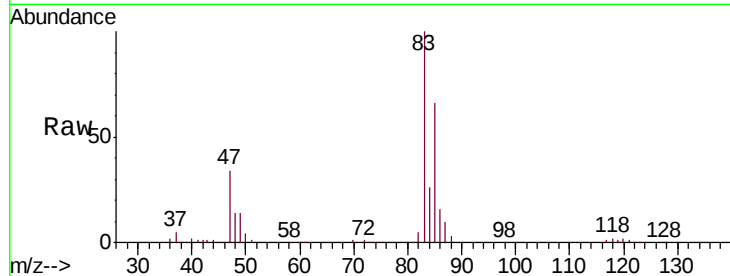




#25
Chloroform
Concen: 12.321 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU031816.D
Acq: 08 May 2019 11:23

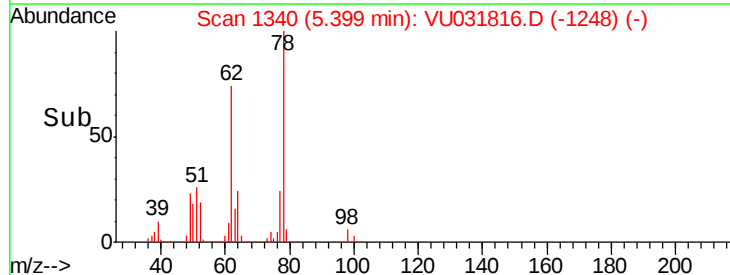
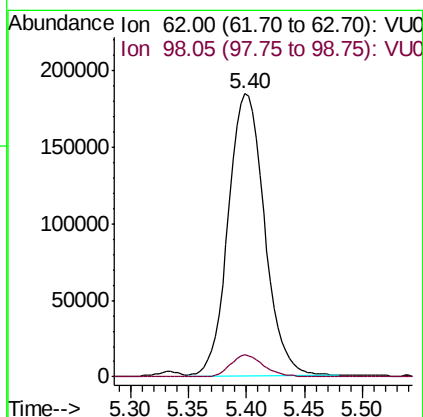
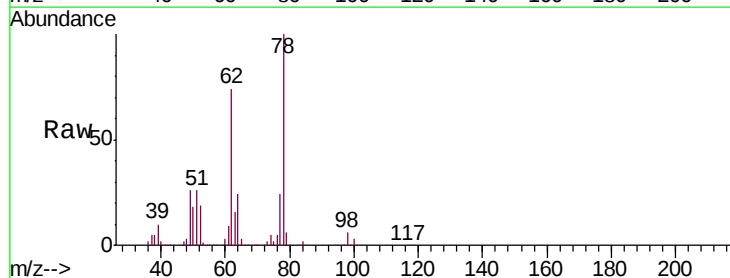
Instrument :
MSVOA_U
ClientSampleId :
VSTD01008

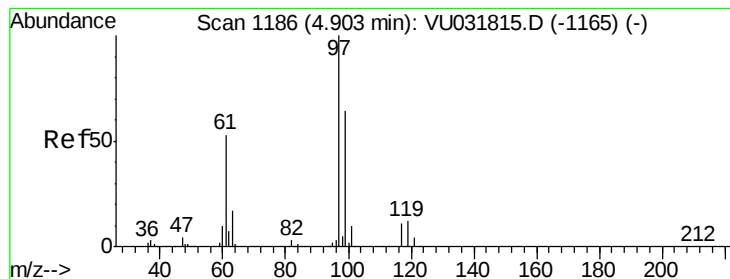
Tgt Ion: 83 Resp: 571403
Ion Ratio Lower Upper
83 100
85 66.4 44.4 82.5



#27
1,2-Dichloroethane
Concen: 13.029 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU031816.D
Acq: 08 May 2019 11:23

Tgt Ion: 62 Resp: 400150
Ion Ratio Lower Upper
62 100
98 7.7 5.4 8.2





#29

1,1,1-Trichloroethane

Concen: 11.514 ug/L

RT: 4.90 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD01008

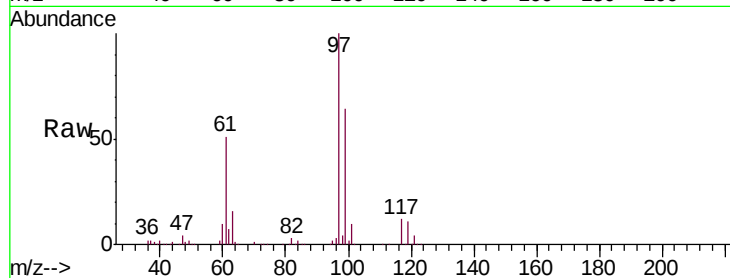
Tgt Ion: 97 Resp: 469280

Ion Ratio Lower Upper

97 100

99 64.1 50.6 75.8

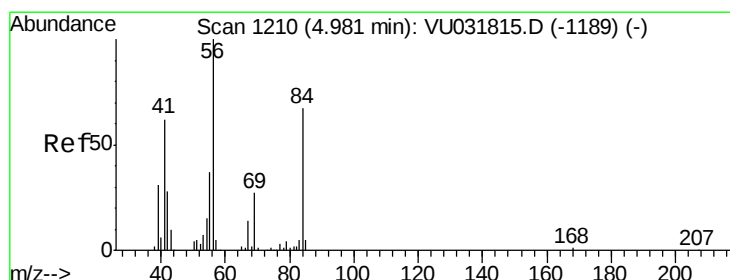
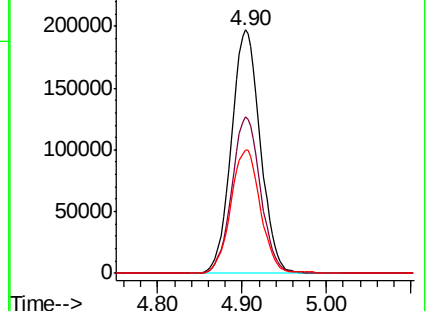
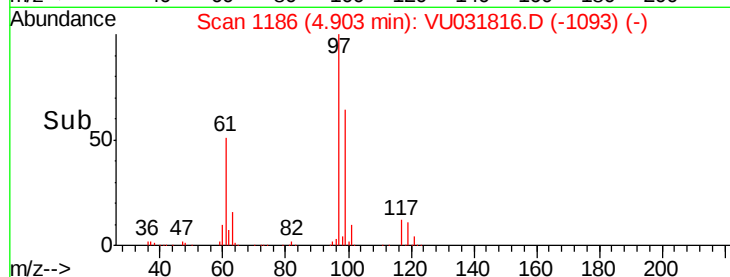
61 51.9 42.2 63.2



Abundance Ion 96.95 (96.65 to 97.65): VU031816.D (-1093) (-)

Ion 99.05 (98.75 to 99.75): VU031816.D (-1093) (-)

Ion 61.05 (60.75 to 61.75): VU031816.D (-1093) (-)



#30

Cyclohexane

Concen: 11.321 ug/L

RT: 4.98 min Scan# 1211

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

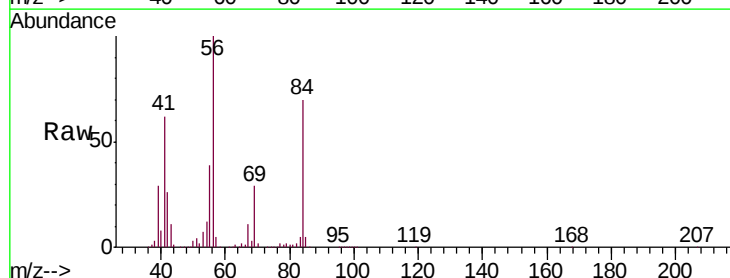
Tgt Ion: 56 Resp: 544344

Ion Ratio Lower Upper

56 100

69 28.4 21.8 32.8

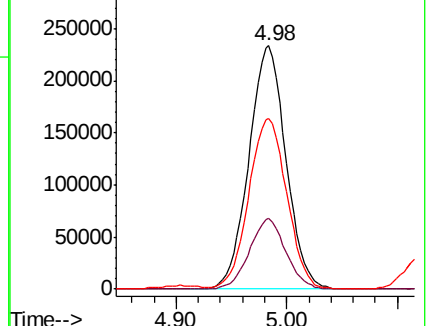
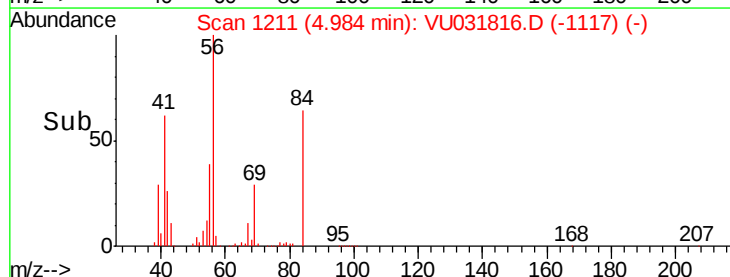
84 71.8 56.8 85.2

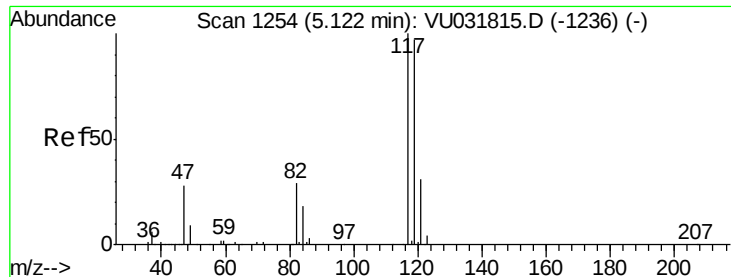


Abundance Ion 56.10 (55.80 to 56.80): VU031816.D (-1117) (-)

Ion 69.15 (68.85 to 69.85): VU031816.D (-1117) (-)

Ion 84.15 (83.85 to 84.85): VU031816.D (-1117) (-)

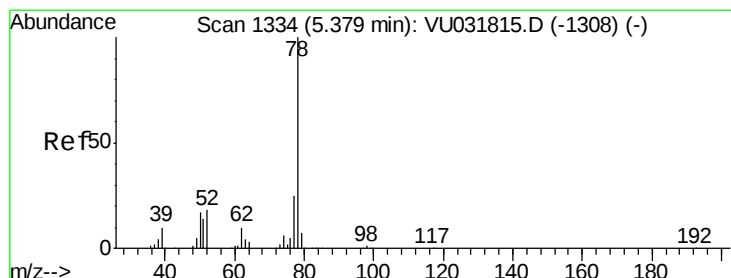
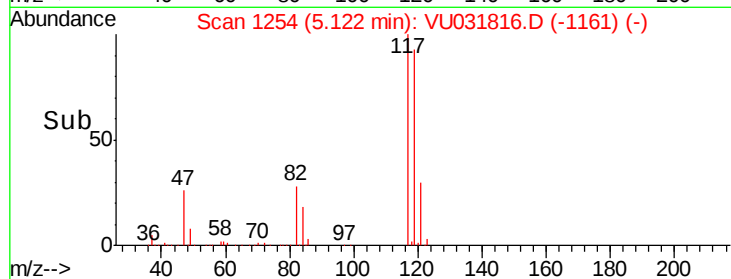
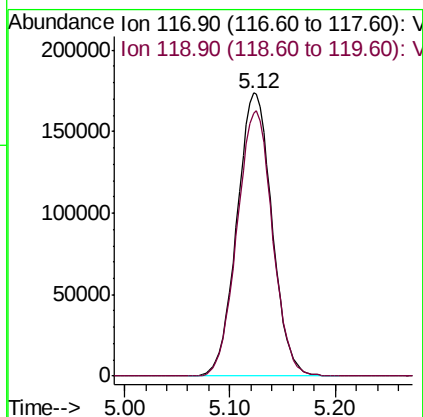
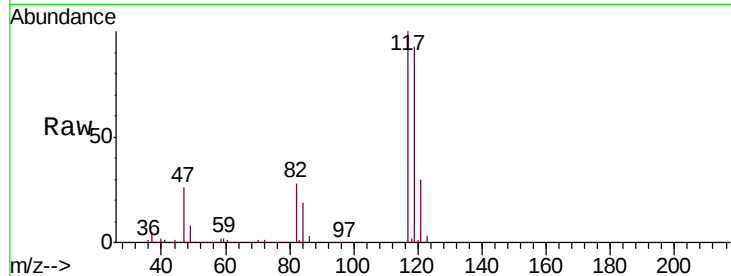




#31
Carbon tetrachloride
Concen: 11.541 ug/L
RT: 5.12 min Scan# 1254
Delta R.T. 0.00 min
Lab File: VU031816.D
Acq: 08 May 2019 11:23

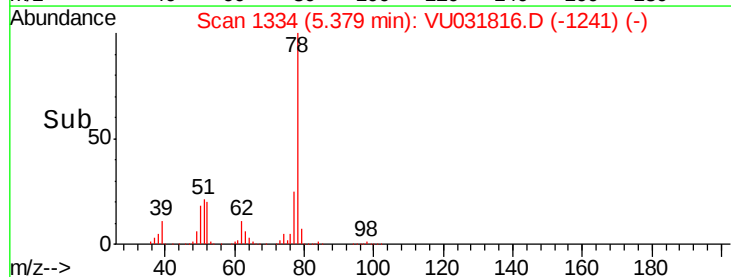
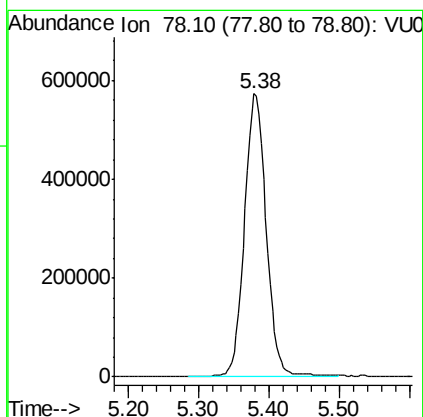
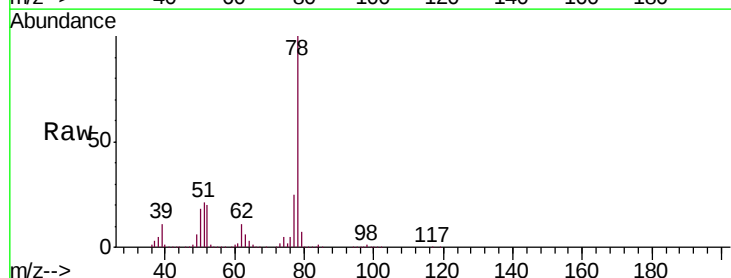
Instrument :
MSVOA_U
ClientSampleId :
VSTD01008

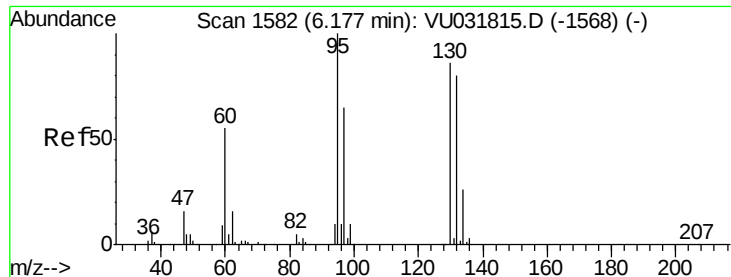
Tgt Ion:117 Resp: 401425
Ion Ratio Lower Upper
117 100
119 94.6 76.4 114.6



#33
Benzene
Concen: 11.318 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU031816.D
Acq: 08 May 2019 11:23

Tgt Ion: 78 Resp: 1237538

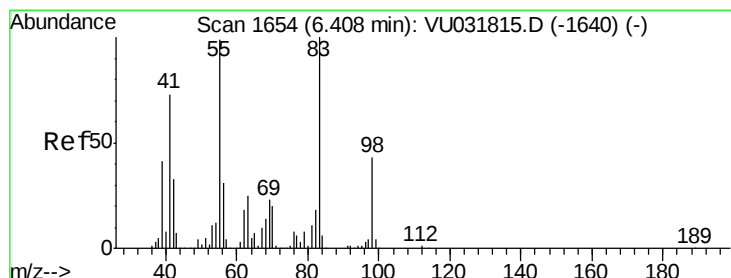
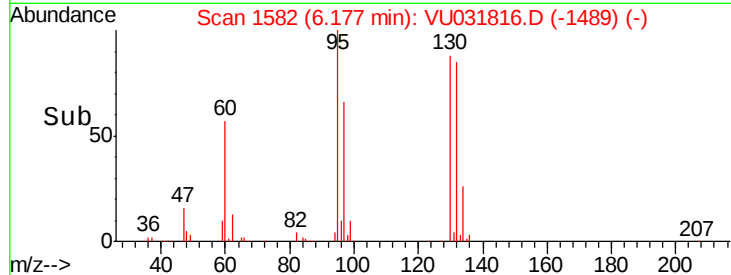
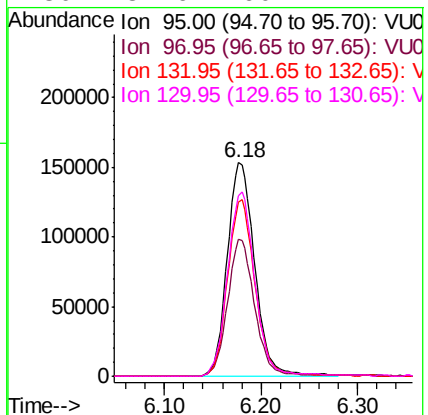
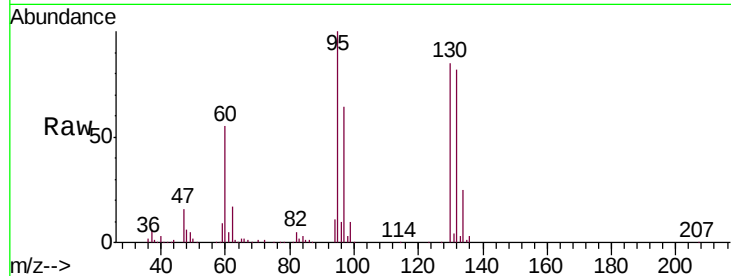




#34
 Trichloroethene
 Concen: 10.667 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VU031816.D
 Acq: 08 May 2019 11:23

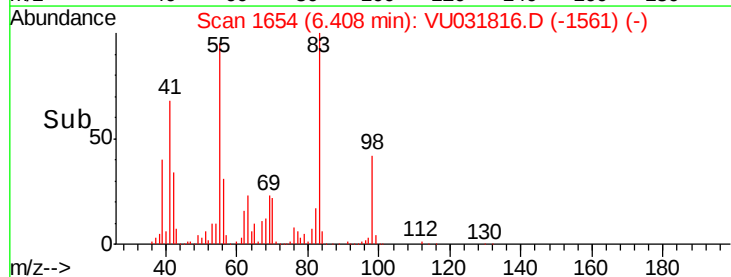
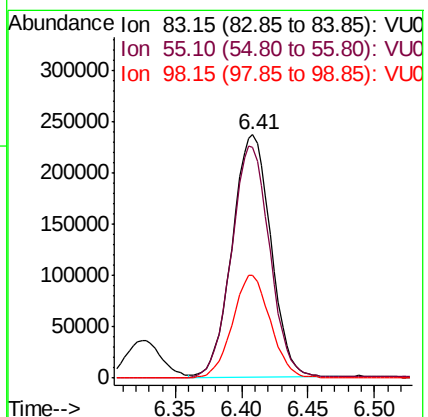
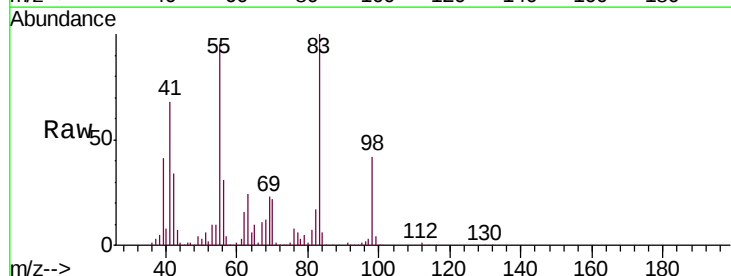
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01008

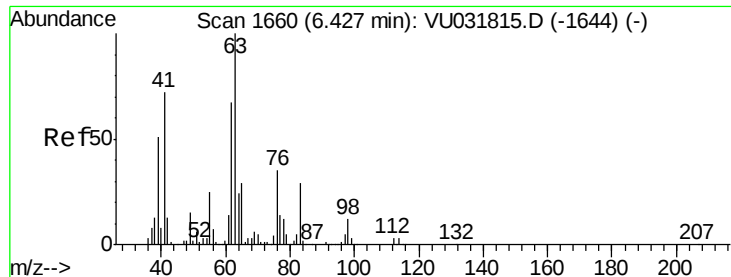
Tgt Ion:	95	Resp:	302846
Ion	Ratio	Lower	Upper
95	100		
97	64.0	45.8	85.2
132	81.7	56.0	104.0
130	84.6	60.4	112.2



#35
 Methylcyclohexane
 Concen: 11.421 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. 0.00 min
 Lab File: VU031816.D
 Acq: 08 May 2019 11:23

Tgt Ion:	83	Resp:	477972
Ion	Ratio	Lower	Upper
83	100		
55	95.7	79.2	118.8
98	41.6	34.0	51.0





#37

1,2-Dichloropropane

Concen: 11.726 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

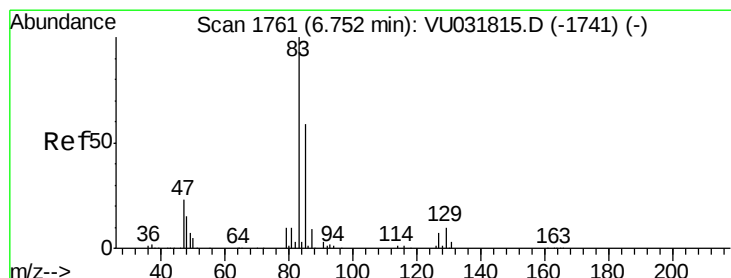
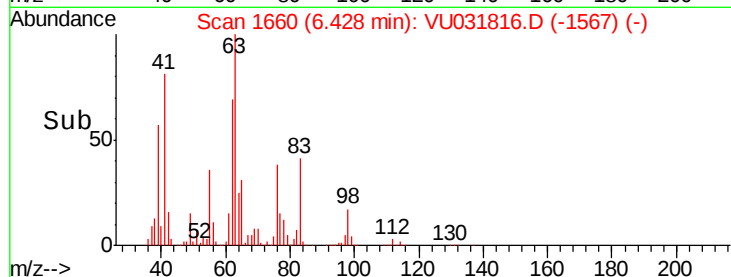
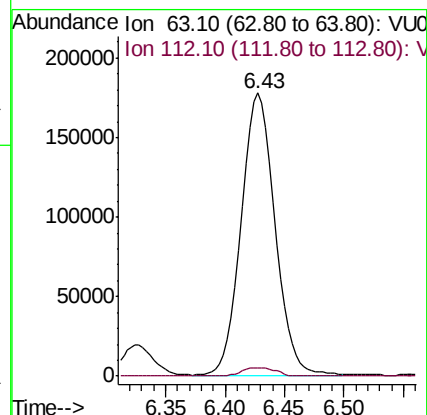
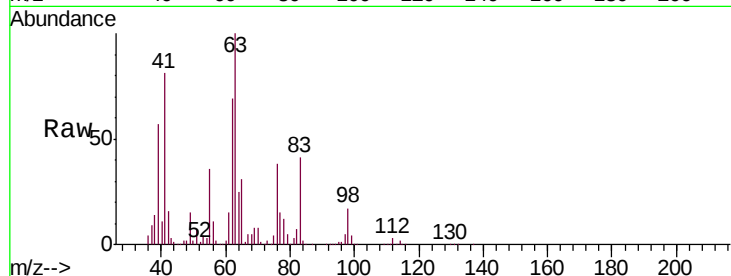
VSTD01008

Tgt Ion: 63 Resp: 349824

Ion Ratio Lower Upper

63 100

112 3.1 2.5 3.7



#38

Bromodichloromethane

Concen: 11.685 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

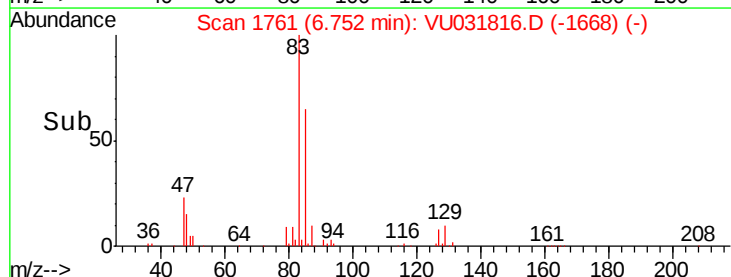
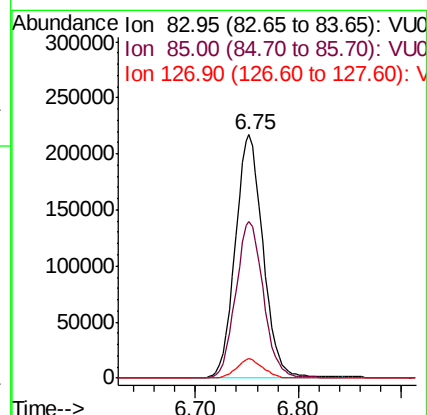
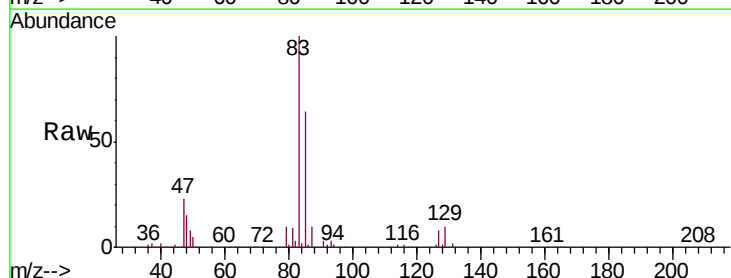
Tgt Ion: 83 Resp: 405317

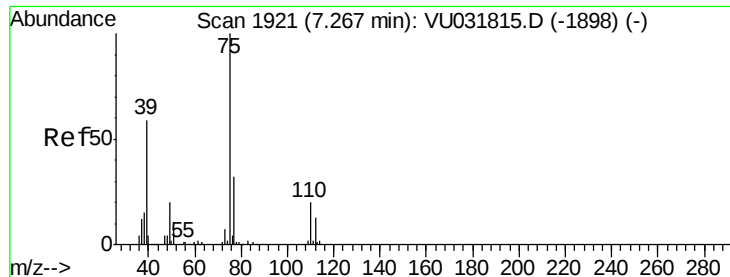
Ion Ratio Lower Upper

83 100

85 64.5 41.3 76.7

127 8.0 5.8 8.6

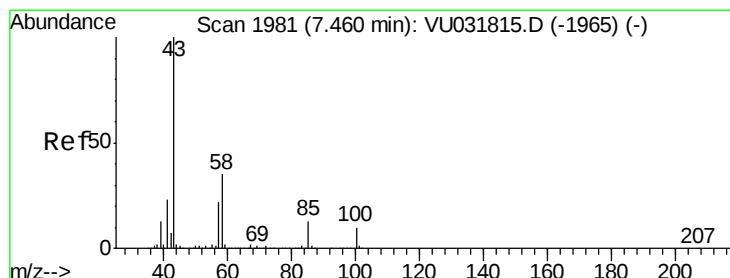
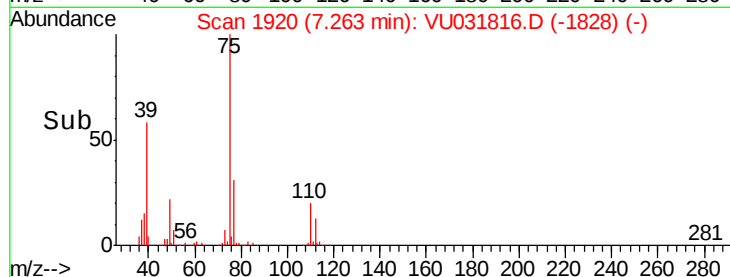
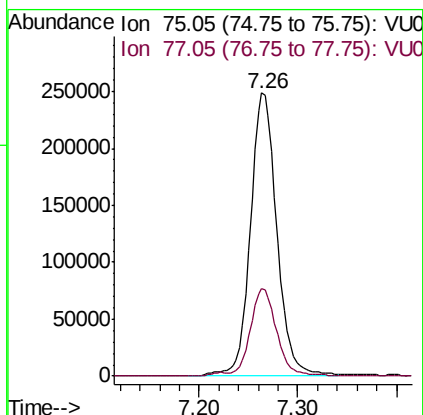
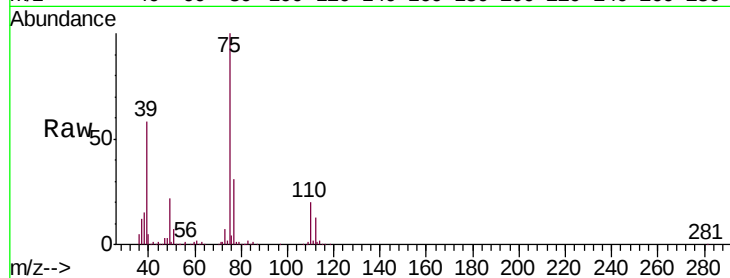




#39
 cis-1,3-Dichloropropene
 Concen: 11.458 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU031816.D
 Acq: 08 May 2019 11:23

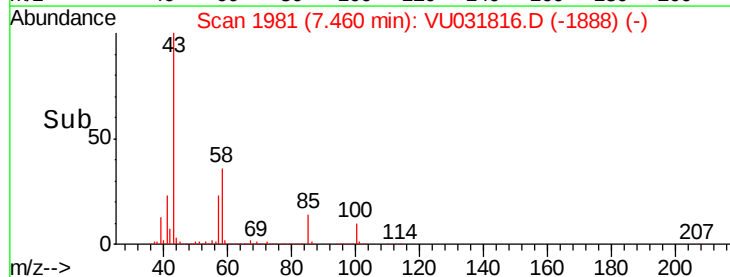
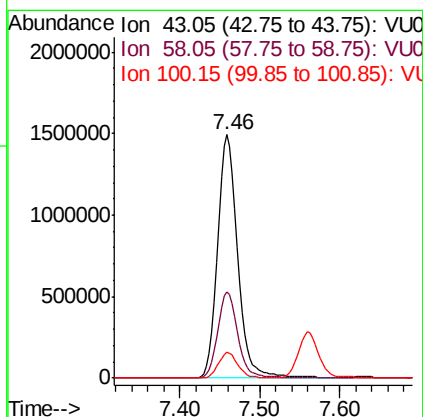
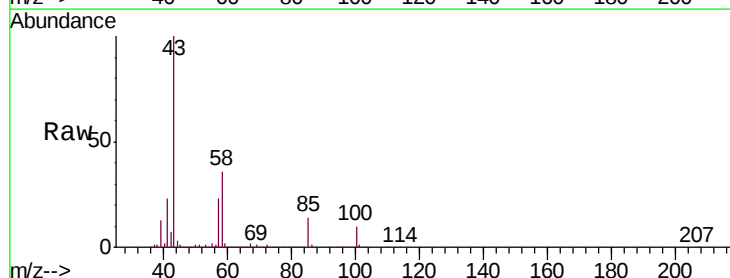
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01008

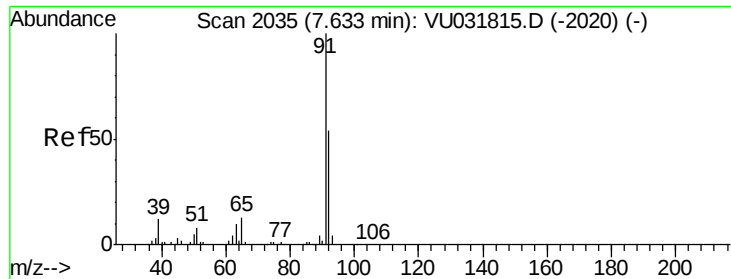
Tgt Ion: 75 Resp: 460074
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 129.085 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VU031816.D
 Acq: 08 May 2019 11:23

Tgt Ion: 43 Resp: 2614777
 Ion Ratio Lower Upper
 43 100
 58 35.3 28.0 42.0
 100 10.3 8.2 12.4





#42

Toluene

Concen: 11.815 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

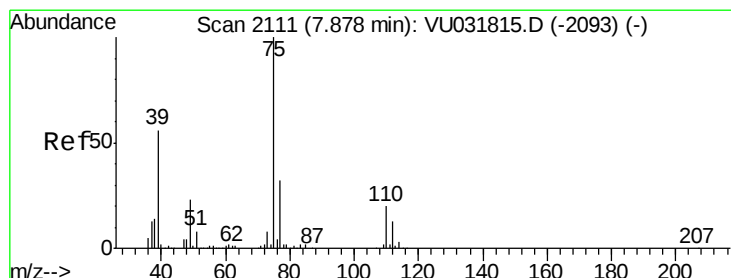
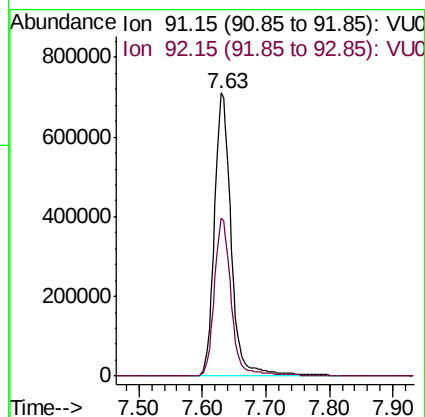
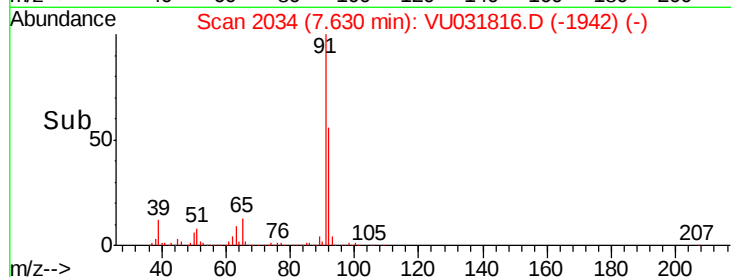
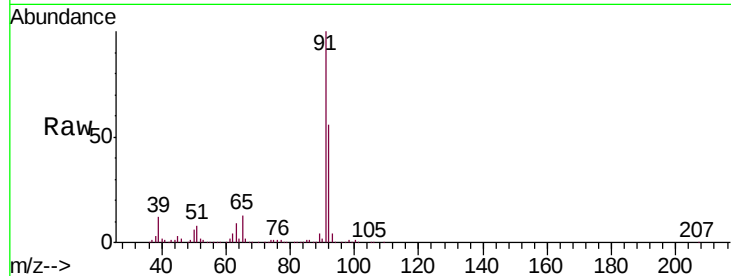
VSTD01008

Tgt Ion: 91 Resp: 1302830

Ion Ratio Lower Upper

91 100

92 56.0 38.1 70.9



#44

trans-1,3-Dichloropropene

Concen: 11.992 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031816.D

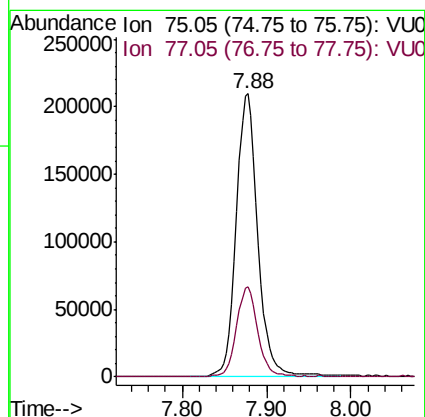
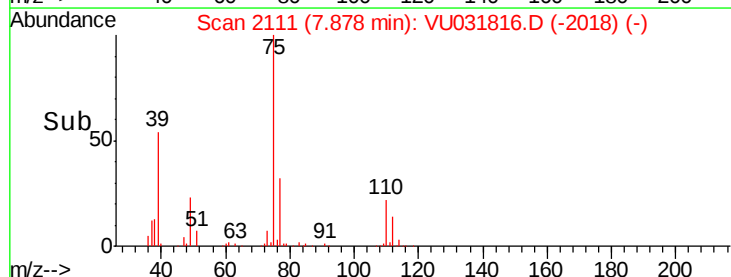
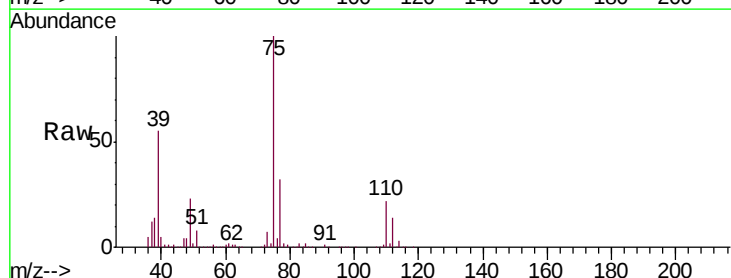
Acq: 08 May 2019 11:23

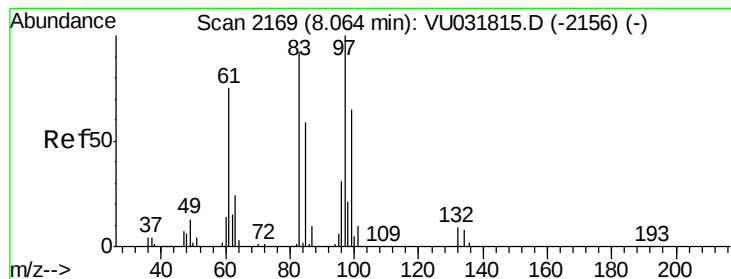
Tgt Ion: 75 Resp: 375484

Ion Ratio Lower Upper

75 100

77 31.9 22.3 41.3





#45

1,1,2-Trichloroethane

Concen: 10.861 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD01008

Tgt Ion: 97 Resp: 209402

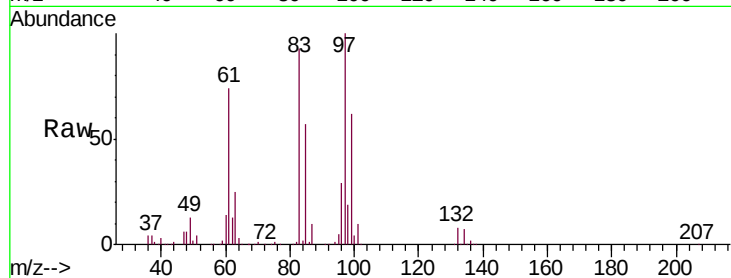
Ion Ratio Lower Upper

97 100

99 61.6 45.8 85.0

83 93.2 64.5 119.7

85 57.4 41.6 77.3

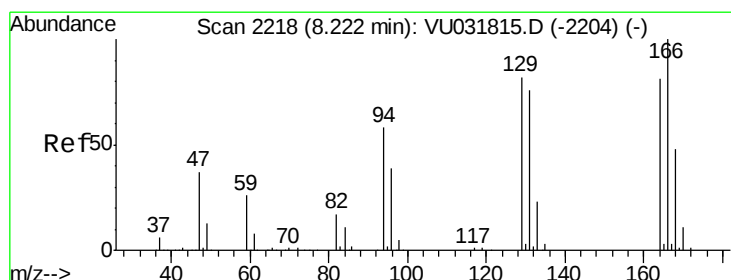
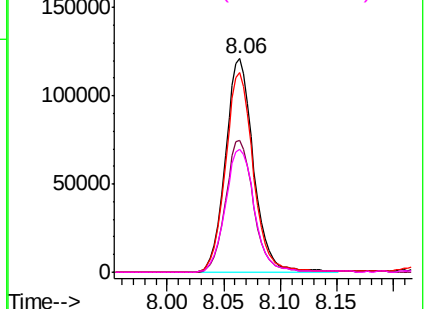
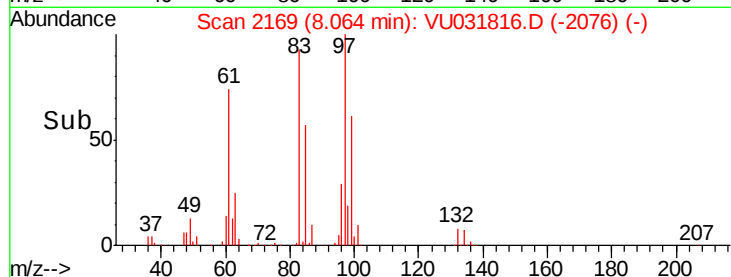


Abundance Ion 96.95 (96.65 to 97.65): VU031816.D (-2076) (-)

Ion 99.05 (98.75 to 99.75): VU031816.D (-2076) (-)

Ion 82.95 (82.65 to 83.65): VU031816.D (-2076) (-)

Ion 85.00 (84.70 to 85.70): VU031816.D (-2076) (-)



#47

Tetrachloroethene

Concen: 10.211 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Tgt Ion: 164 Resp: 197407

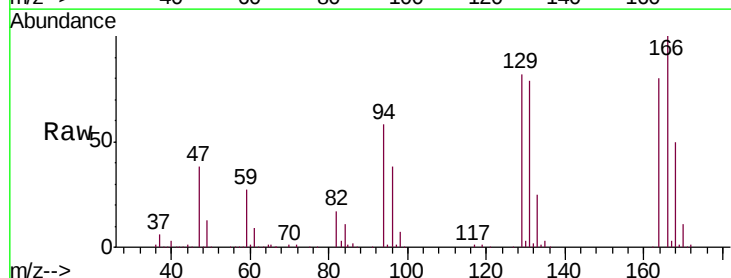
Ion Ratio Lower Upper

164 100

129 102.0 70.3 130.5

131 98.5 65.4 121.4

166 124.5 86.0 159.8

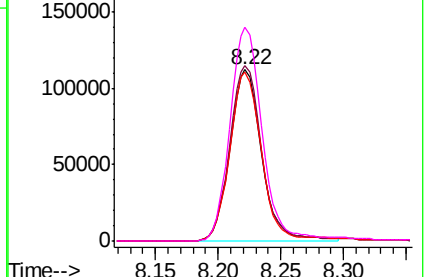
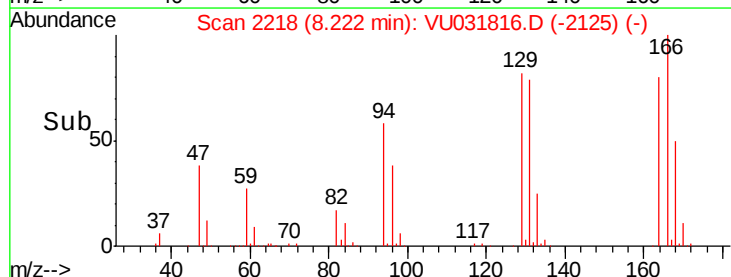


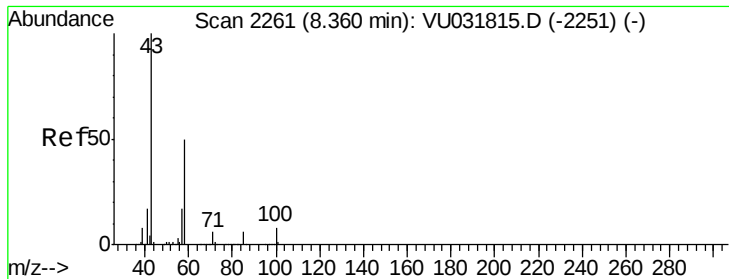
Abundance Ion 163.90 (163.60 to 164.60): VU031816.D (-2125) (-)

Ion 128.95 (128.65 to 129.65): VU031816.D (-2125) (-)

Ion 130.95 (130.65 to 131.65): VU031816.D (-2125) (-)

Ion 165.90 (165.60 to 166.60): VU031816.D (-2125) (-)



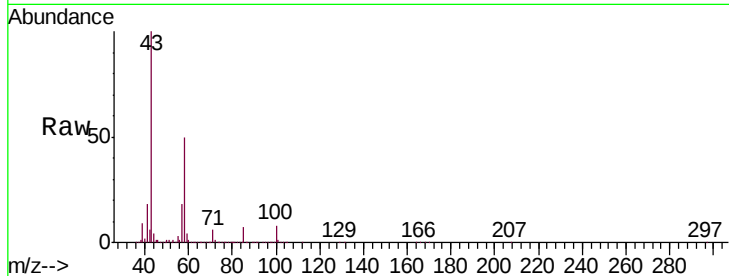


#48
2-Hexanone
Concen: 133.982 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU031816.D
Acq: 08 May 2019 11:23

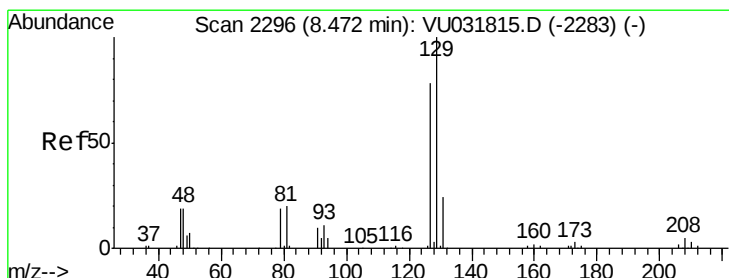
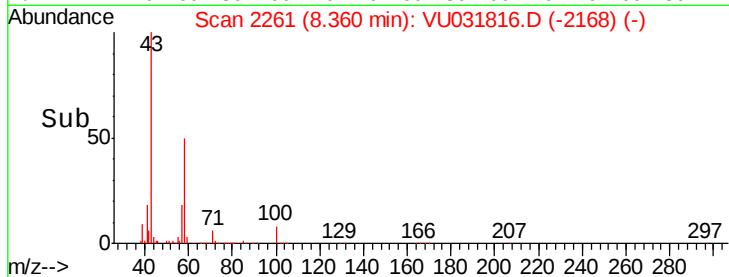
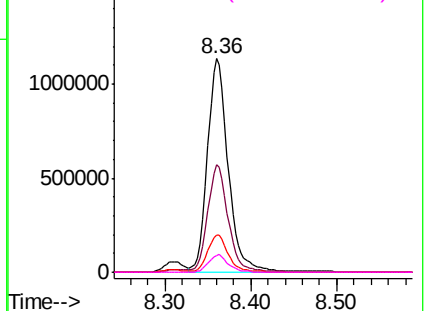
Instrument :
MSVOA_U
ClientSampleId :
VSTD01008

Tgt Ion: 43 Resp: 1911690

Ion	Ratio	Lower	Upper
43	100		
58	49.3	40.2	60.2
57	17.3	13.8	20.6
100	7.9	6.4	9.6



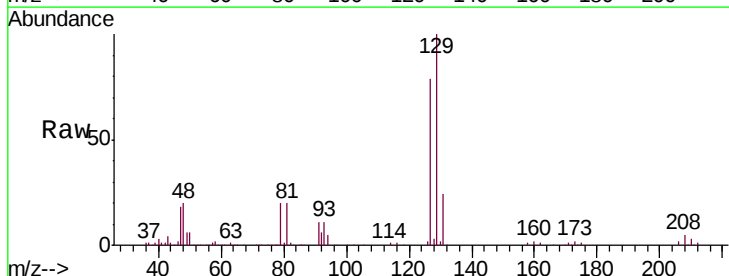
Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0



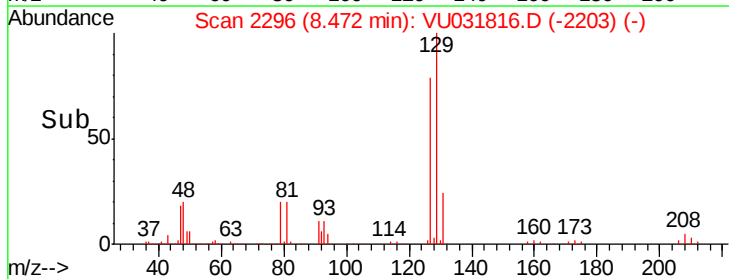
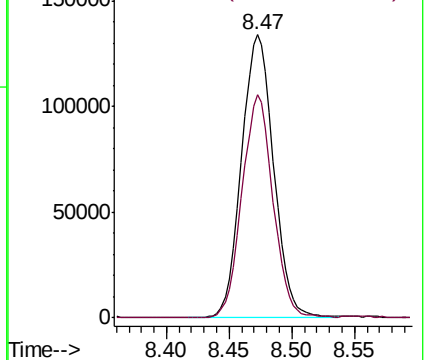
#49
Dibromochloromethane
Concen: 10.815 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031816.D
Acq: 08 May 2019 11:23

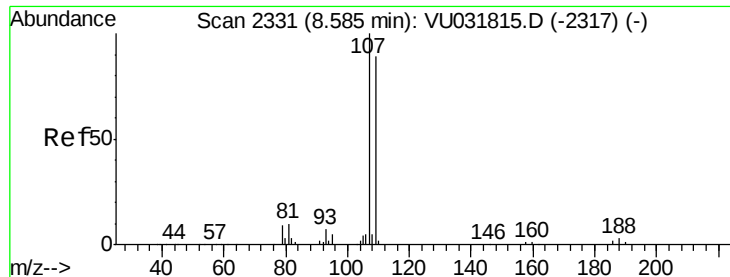
Tgt Ion: 129 Resp: 237039

Ion	Ratio	Lower	Upper
129	100		
127	79.0	54.7	101.7



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#50

1,2-Dibromoethane

Concen: 10.539 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD01008

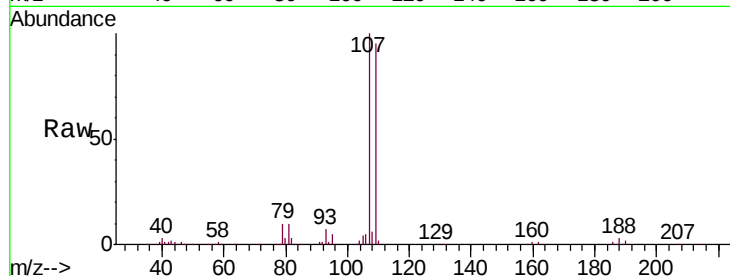
Tgt Ion:107 Resp: 194199

Ion Ratio Lower Upper

107 100

109 95.1 62.6 116.3

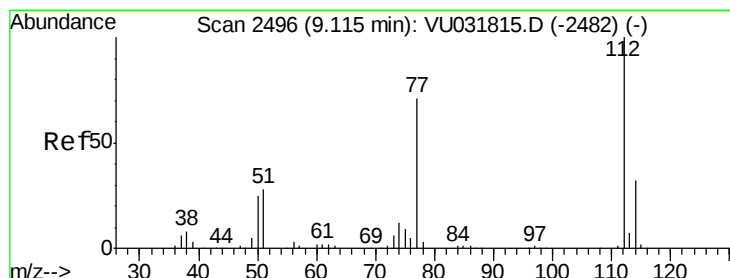
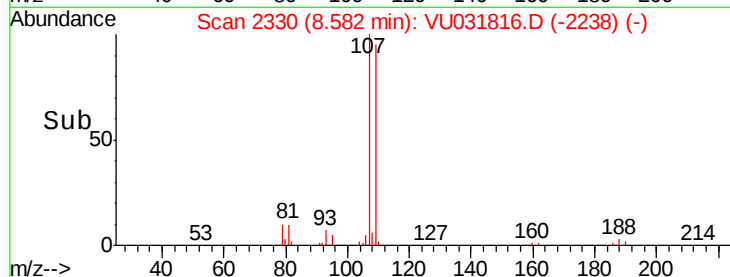
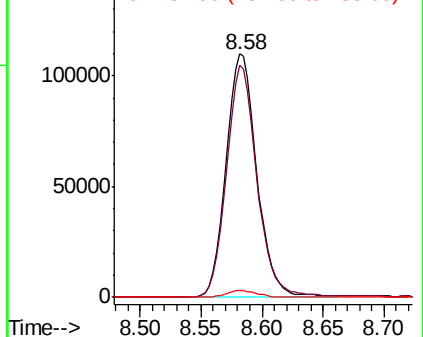
188 2.7 2.1 3.1



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 11.026 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

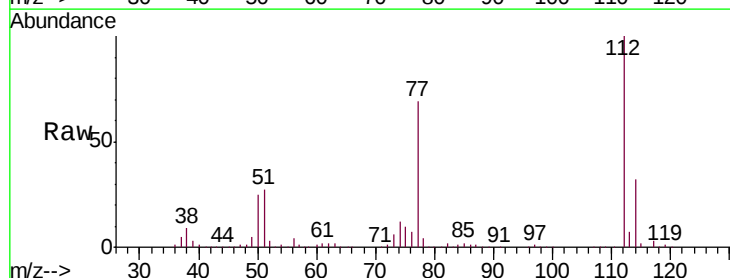
Tgt Ion:112 Resp: 722330

Ion Ratio Lower Upper

112 100

114 31.7 22.5 41.7

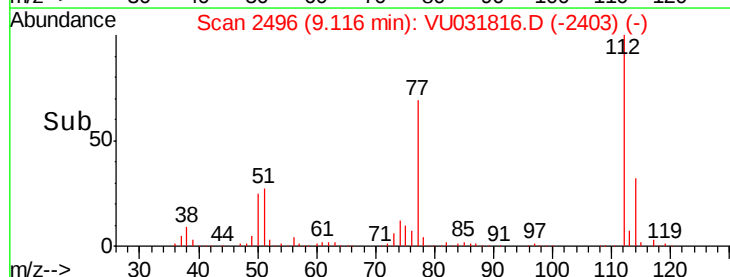
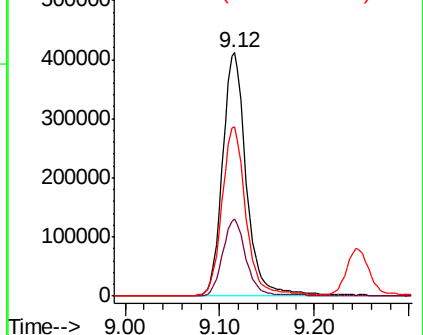
77 69.5 56.9 85.3

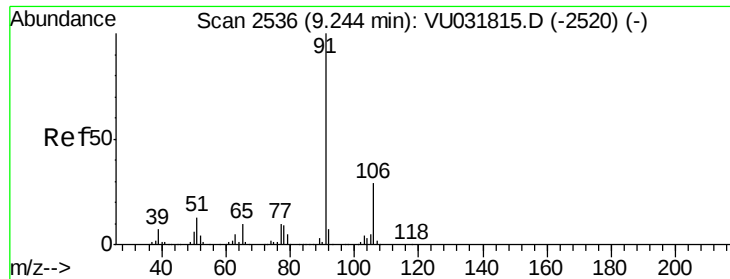


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 11.793 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

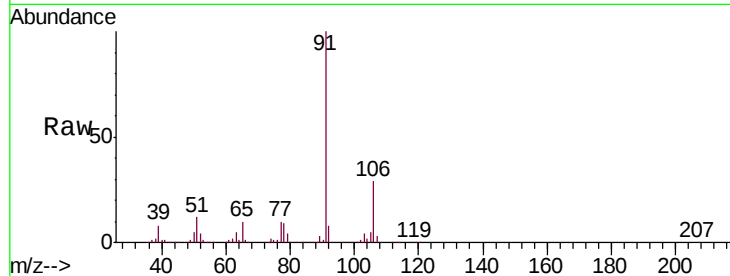
VSTD01008

Tgt Ion: 91 Resp: 1363248

Ion Ratio Lower Upper

91 100

106 28.9 20.0 37.2



Abundance Ion 91.15 (90.85 to 91.85): VU031815.D (-2520) (-)

Ion 106.15 (105.85 to 106.85): VU031815.D (-2520) (-)

9.24

800000

600000

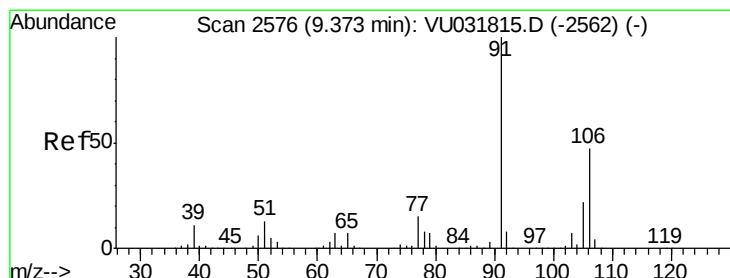
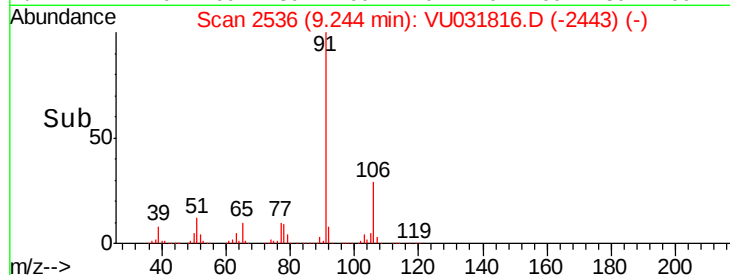
400000

200000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 11.944 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU031816.D

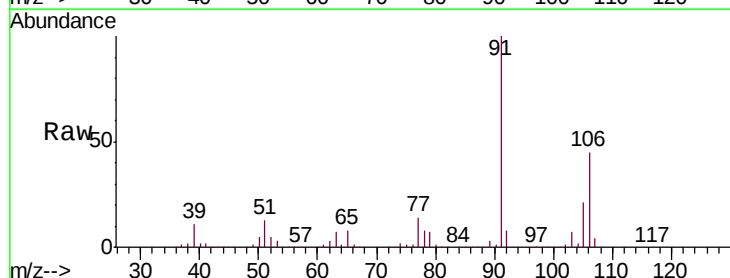
Acq: 08 May 2019 11:23

Tgt Ion: 106 Resp: 494378

Ion Ratio Lower Upper

106 100

91 221.4 150.3 279.1



Abundance Ion 106.15 (105.85 to 106.85): VU031815.D (-2562) (-)

Ion 91.15 (90.85 to 91.85): VU031815.D (-2562) (-)

9.37

600000

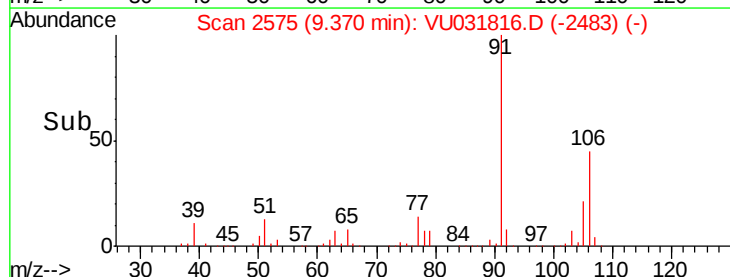
400000

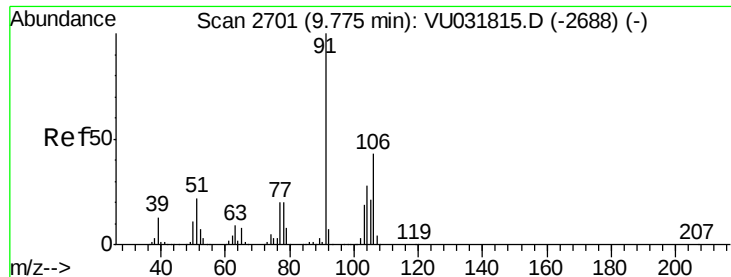
200000

0

9.30 9.40 9.50

Time-->





#54

o-Xylene

Concen: 11.734 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

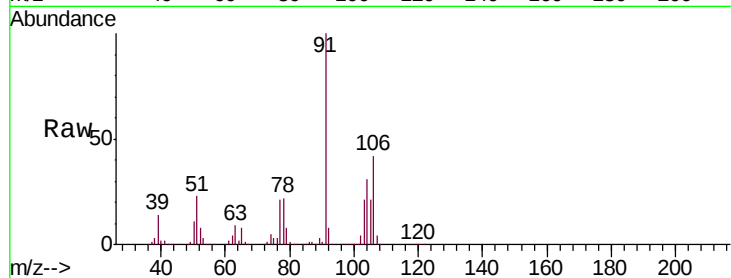
VSTD01008

Tgt Ion:106 Resp: 474094

Ion Ratio Lower Upper

106 100

91 238.7 161.8 300.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU

800000

600000

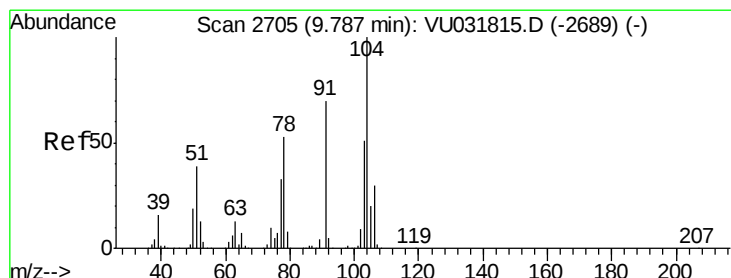
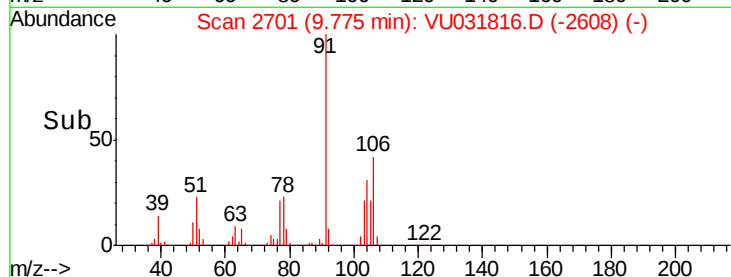
400000

200000

0

9.70 9.75 9.80 9.85

Time-->



#55

Styrene

Concen: 12.525 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU031816.D

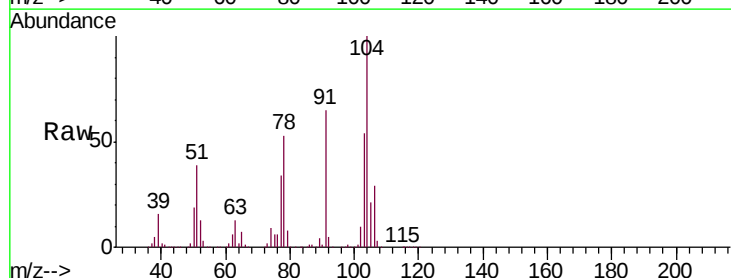
Acq: 08 May 2019 11:23

Tgt Ion:104 Resp: 842957

Ion Ratio Lower Upper

104 100

78 53.0 37.2 69.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU

600000

500000

400000

300000

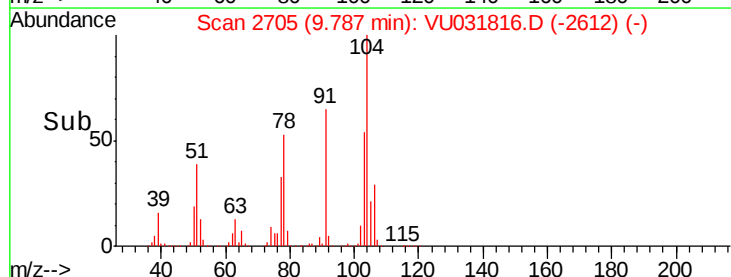
200000

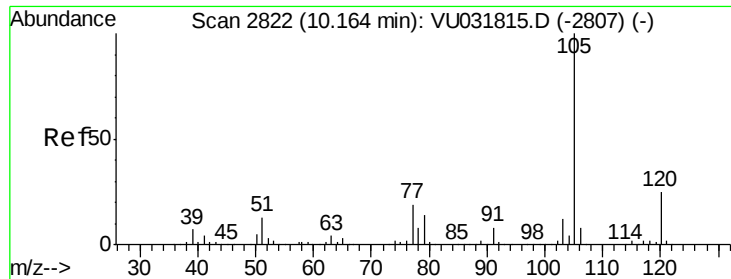
100000

0

9.70 9.80 9.90

Time-->





#56

Isopropylbenzene

Concen: 12.010 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD01008

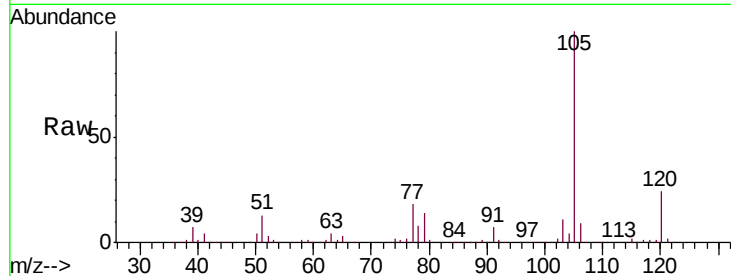
Tgt Ion:105 Resp: 1283469

Ion Ratio Lower Upper

105 100

120 24.5 20.2 30.4

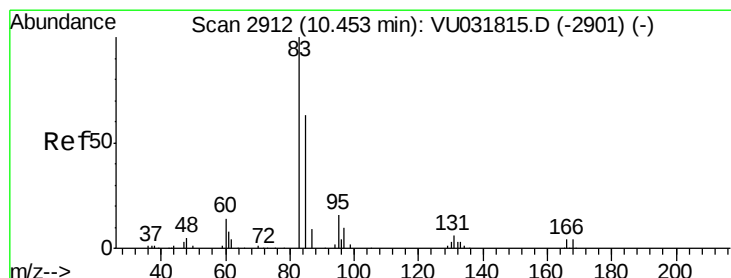
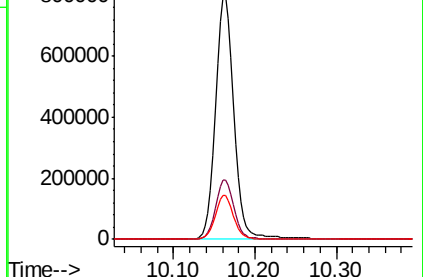
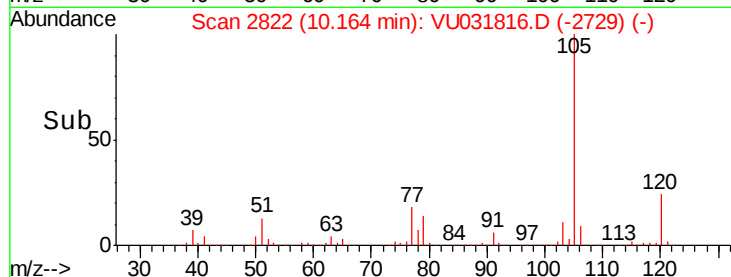
77 17.8 14.8 22.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 11.312 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

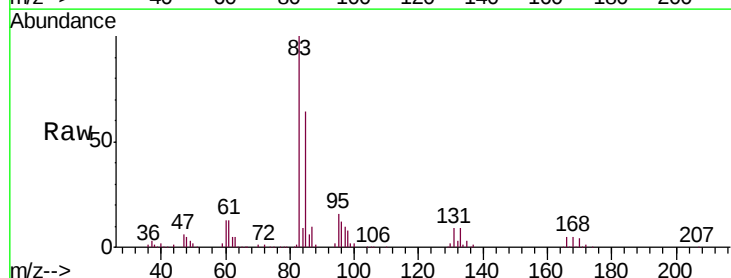
Tgt Ion: 83 Resp: 281722

Ion Ratio Lower Upper

83 100

85 63.9 44.3 82.3

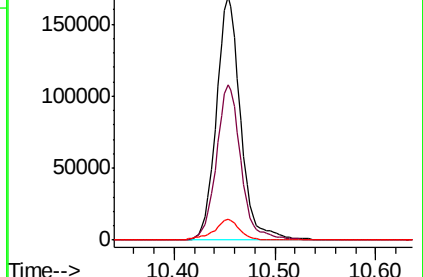
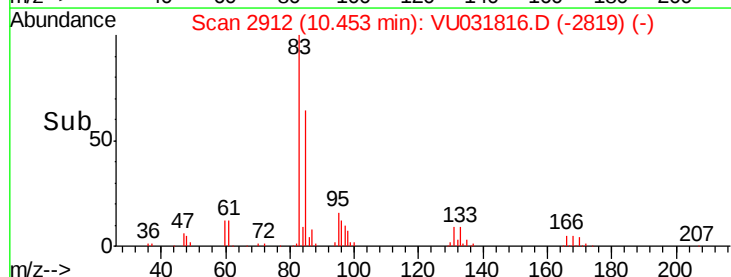
131 8.6 6.0 9.0

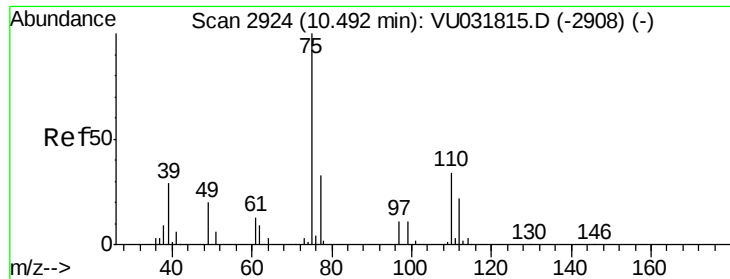


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 11.158 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

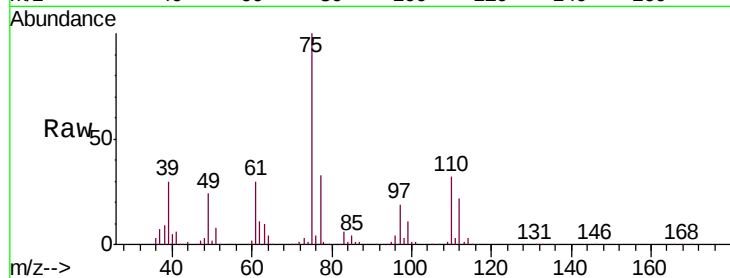
VSTD01008

Tgt Ion: 75 Resp: 203543

Ion Ratio Lower Upper

75 100

77 33.7 26.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VU031815.D (-2908) (-)

Ion 77.00 (76.70 to 77.70): VU031815.D (-2908) (-)

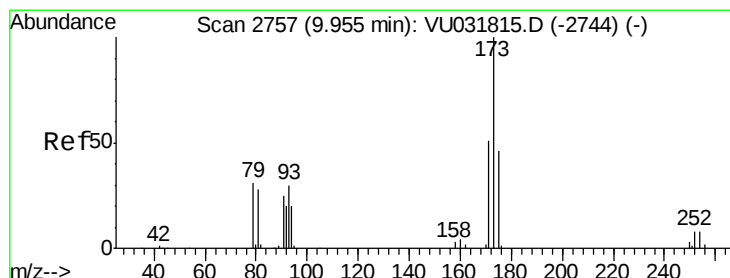
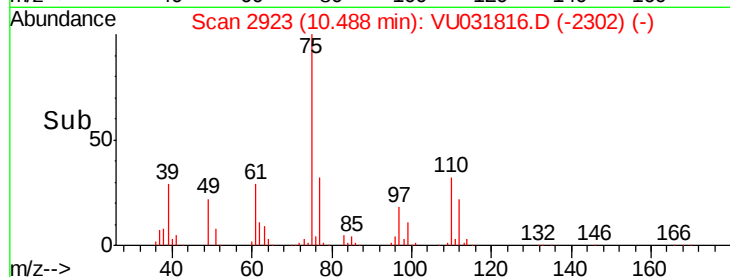
10.49

100000

50000

0

Time--> 10.40 10.50



#61

Bromoform

Concen: 10.065 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

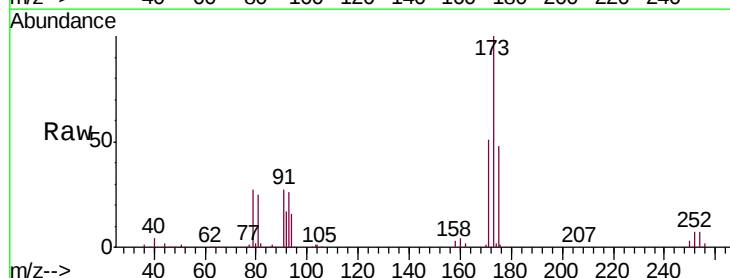
Tgt Ion: 173 Resp: 128424

Ion Ratio Lower Upper

173 100

175 48.6 37.2 55.8

254 7.4 5.8 8.8



Abundance Ion 172.90 (172.60 to 173.60): VU031815.D (-2744) (-)

Ion 174.90 (174.60 to 175.60): VU031815.D (-2744) (-)

Ion 253.75 (253.45 to 254.45): VU031815.D (-2744) (-)

9.95

100000

80000

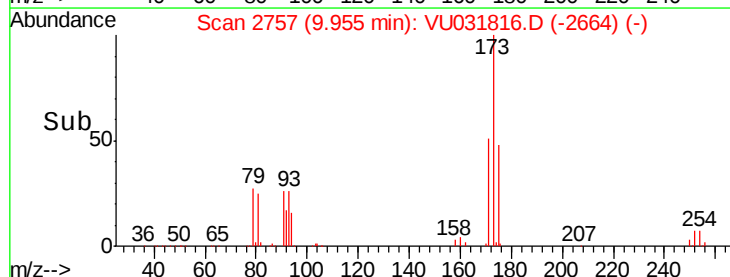
60000

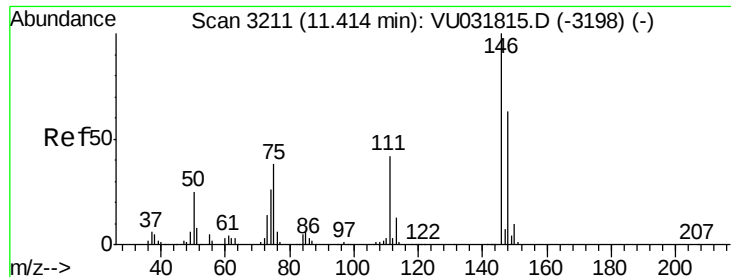
40000

20000

0

Time--> 9.90 10.00





#62

1,3-Dichlorobenzene

Concen: 10.728 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD01008

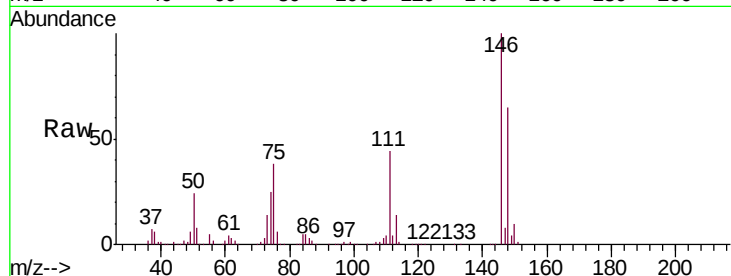
Tgt Ion:146 Resp: 523985

Ion Ratio Lower Upper

146 100

111 43.9 29.4 54.6

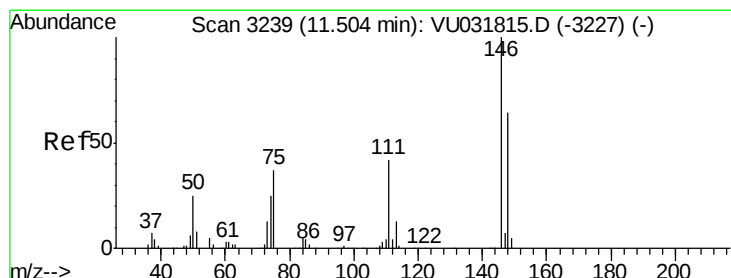
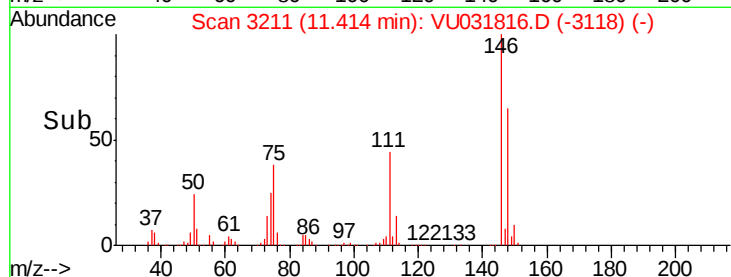
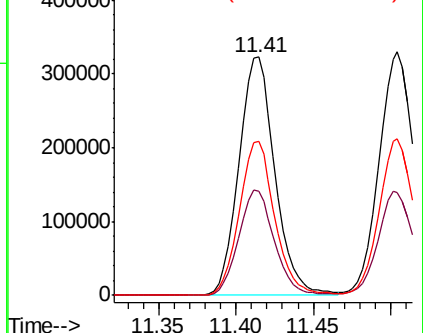
148 64.9 44.0 81.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 10.649 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

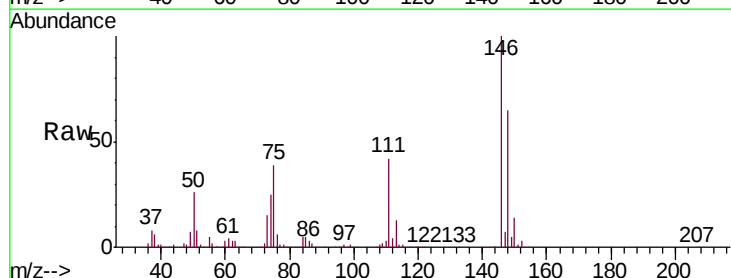
Tgt Ion:146 Resp: 542298

Ion Ratio Lower Upper

146 100

111 42.4 29.5 54.7

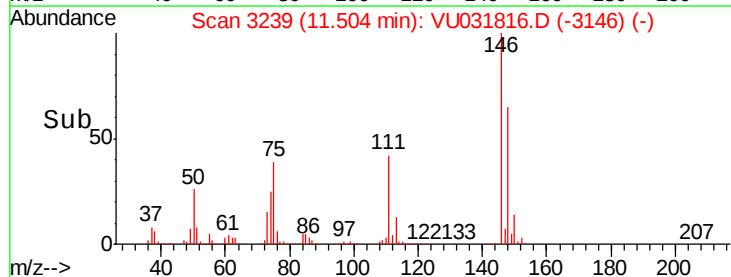
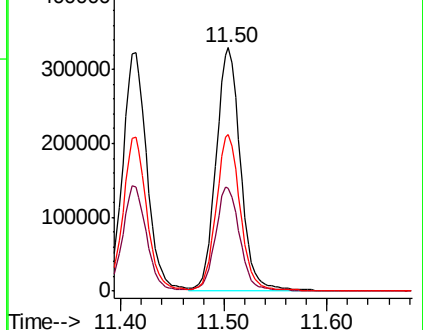
148 64.5 44.8 83.2

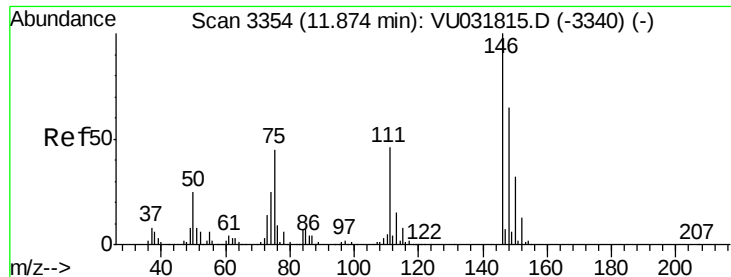


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

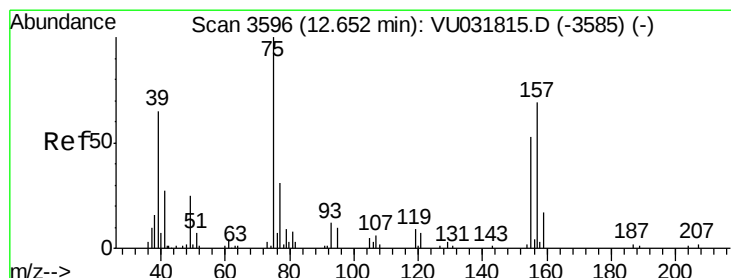
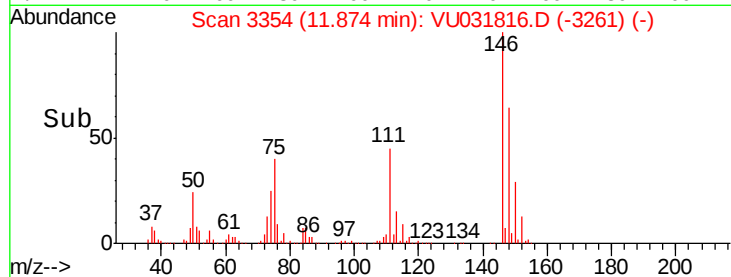
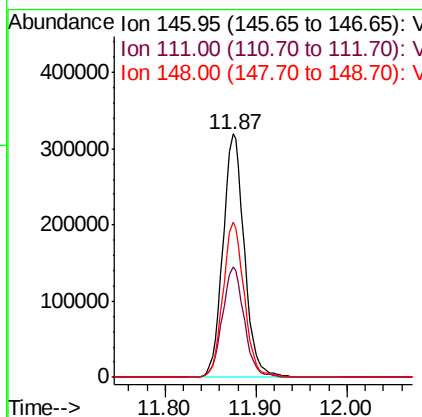
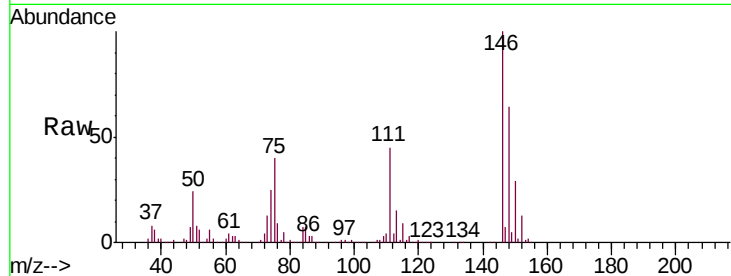




#65
 1,2-Dichlorobenzene
 Concen: 10.733 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031816.D
 Acq: 08 May 2019 11:23

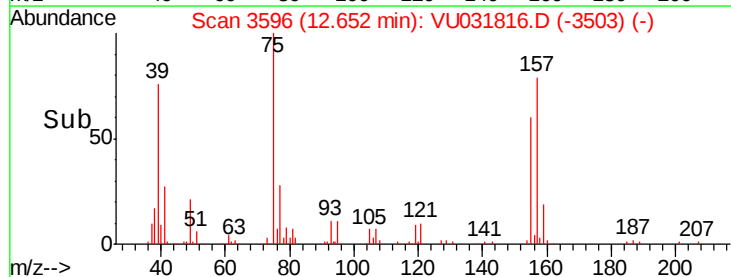
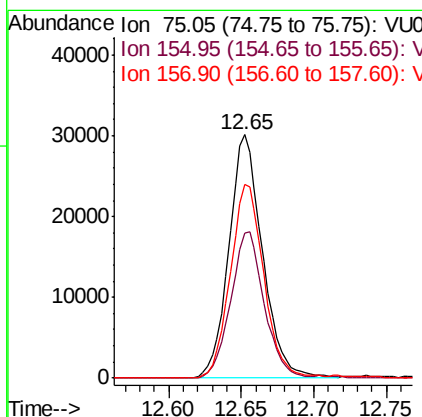
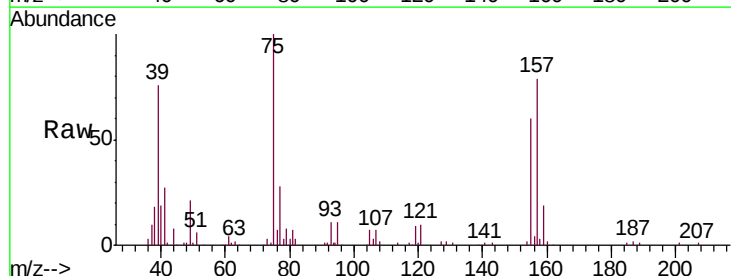
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01008

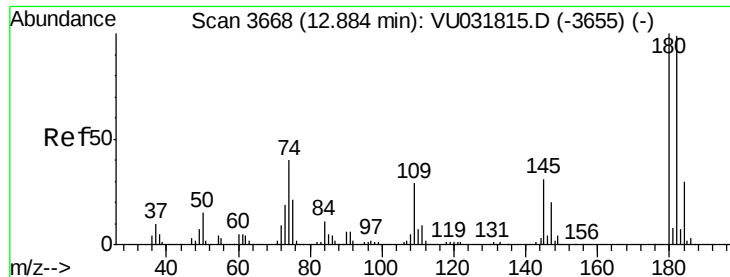
Tgt Ion: 146 Resp: 521097
 Ion Ratio Lower Upper
 146 100
 111 45.3 37.0 55.4
 148 63.6 52.2 78.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 11.822 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031816.D
 Acq: 08 May 2019 11:23

Tgt Ion: 75 Resp: 48402
 Ion Ratio Lower Upper
 75 100
 155 59.6 42.2 63.2
 157 79.4 54.9 82.3

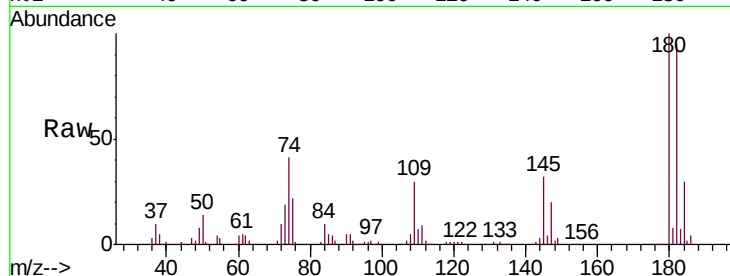




#67
 1,3,5-Trichlorobenzene
 Concen: 10.869 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031816.D
 Acq: 08 May 2019 11:23

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01008

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.0	115.4
184	30.4	24.1	36.1
145	31.5	24.5	36.7



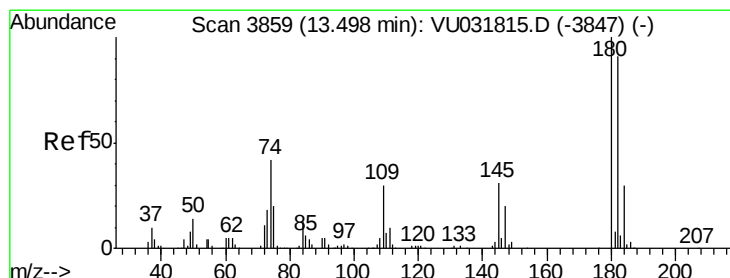
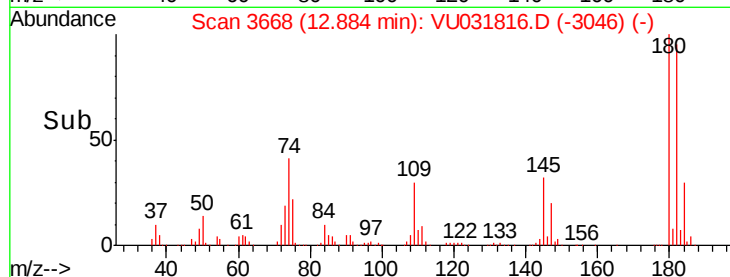
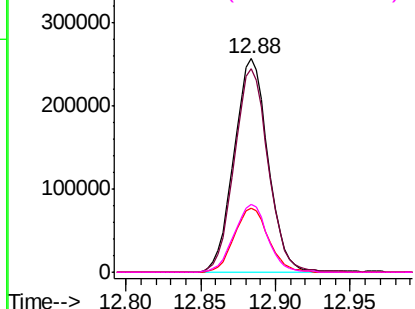
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

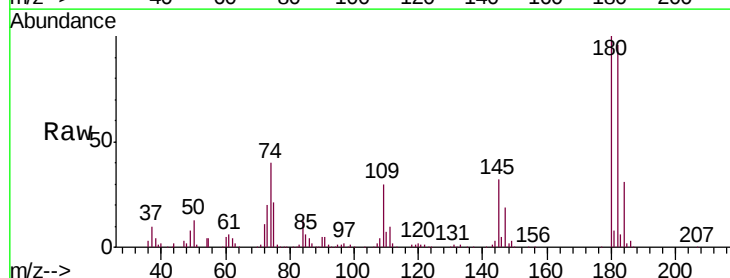
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 10.840 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031816.D
 Acq: 08 May 2019 11:23

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	74.8	112.2
145	32.7	25.4	38.2

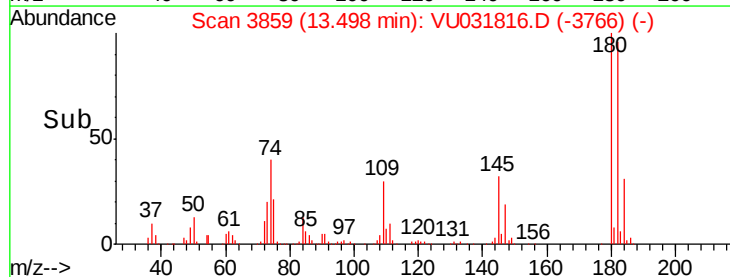
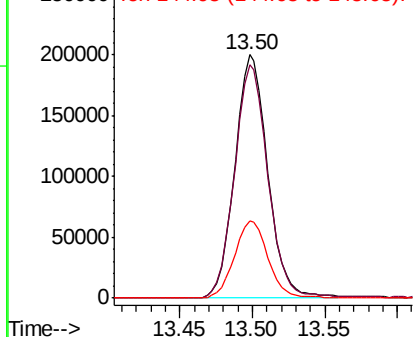


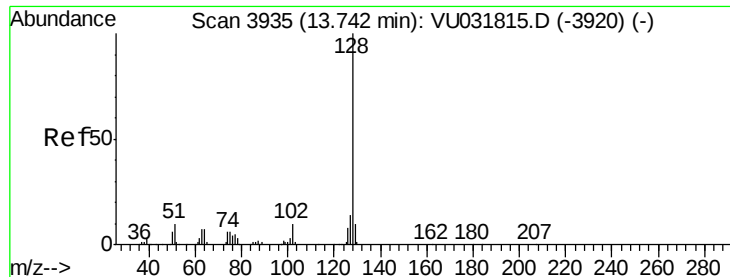
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 11.035 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD01008

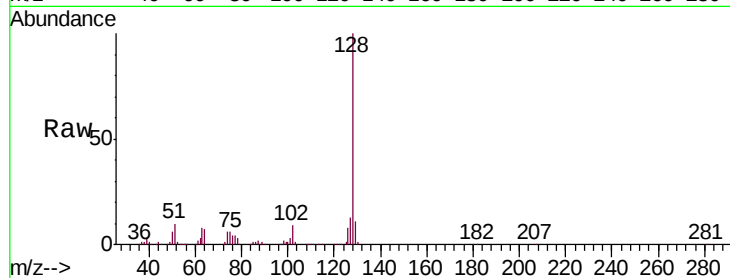
Tgt Ion:128 Resp: 605846

Ion Ratio Lower Upper

128 100

129 10.5 8.0 12.0

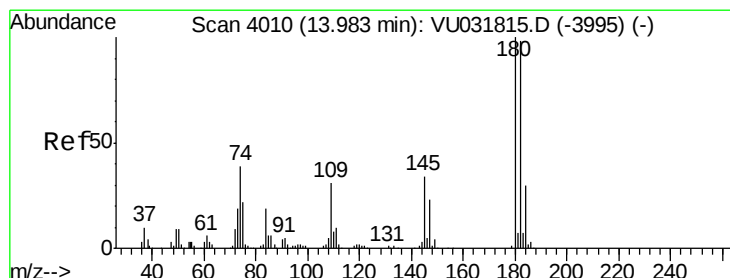
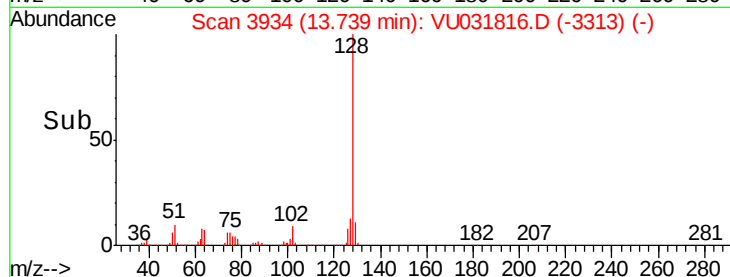
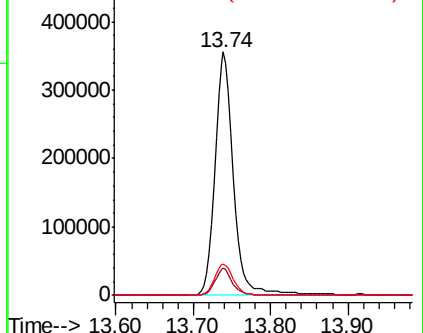
127 12.9 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 10.901 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031816.D

Acq: 08 May 2019 11:23

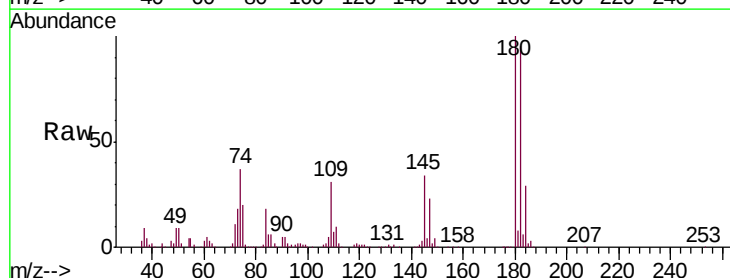
Tgt Ion:180 Resp: 310898

Ion Ratio Lower Upper

180 100

182 94.1 78.4 117.6

145 34.0 27.4 41.0



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

