

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082718\
 Data File : VU026387.D
 Acq On : 27 Aug 2018 10:12
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Quant Time: Aug 27 10:41:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082218WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 22 14:14:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	331647	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	324726	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	175151	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	99897	49.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	98.76%
7) Chloroethane-d5	1.68	69	83565	50.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.32%
11) 1,1-Dichloroethene-d2	2.27	63	202290	50.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.76%
21) 2-Butanone-d5	4.18	46	147430	91.32	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	91.32%
24) Chloroform-d	4.65	84	219274	48.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.26%
26) 1,2-Dichloroethane-d4	5.31	65	142416	48.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.08%
32) Benzene-d6	5.34	84	427567	49.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.44%
36) 1,2-Dichloropropane-d6	6.33	67	134282	48.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.28%
41) Toluene-d8	7.57	98	411412	49.55	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.10%
43) trans-1,3-Dichloropropene-	7.85	79	70485	48.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.82%
47) 2-Hexanone-d5	8.31	63	113870	95.52	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.52%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	192407	46.61	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.22%
64) 1,2-Dichlorobenzene-d4	11.86	152	179981	48.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.86%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	121395	46.616 ug/L	97
3) Chloromethane	1.33	50	112723	46.949 ug/L	99
5) Vinyl chloride	1.40	62	113738	47.018 ug/L	99
6) Bromomethane	1.63	94	68580	45.596 ug/L	96
8) Chloroethane	1.70	64	65320	47.087 ug/L	94
9) Trichlorofluoromethane	1.89	101	171770	50.134 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	101446	53.361 ug/L	97
12) 1,1-Dichloroethene	2.28	96	90768	52.001 ug/L	90
13) Acetone	2.32	43	157405	125.975 ug/L	100
14) Carbon disulfide	2.48	76	295742	44.164 ug/L	98
15) Methyl Acetate	2.62	43	107099	44.538 ug/L	98
16) Methylene chloride	2.70	84	110273	46.945 ug/L	98
17) trans-1,2-Dichloroethene	2.99	96	101518	47.184 ug/L	96
18) Methyl tert-butyl Ether	3.00	73	306453	47.545 ug/L	99
19) 1,1-Dichloroethane	3.45	63	187612	47.884 ug/L	98
20) cis-1,2-Dichloroethene	4.23	96	114314	48.135 ug/L	99
22) 2-Butanone	4.26	43	173181	103.596 ug/L	98

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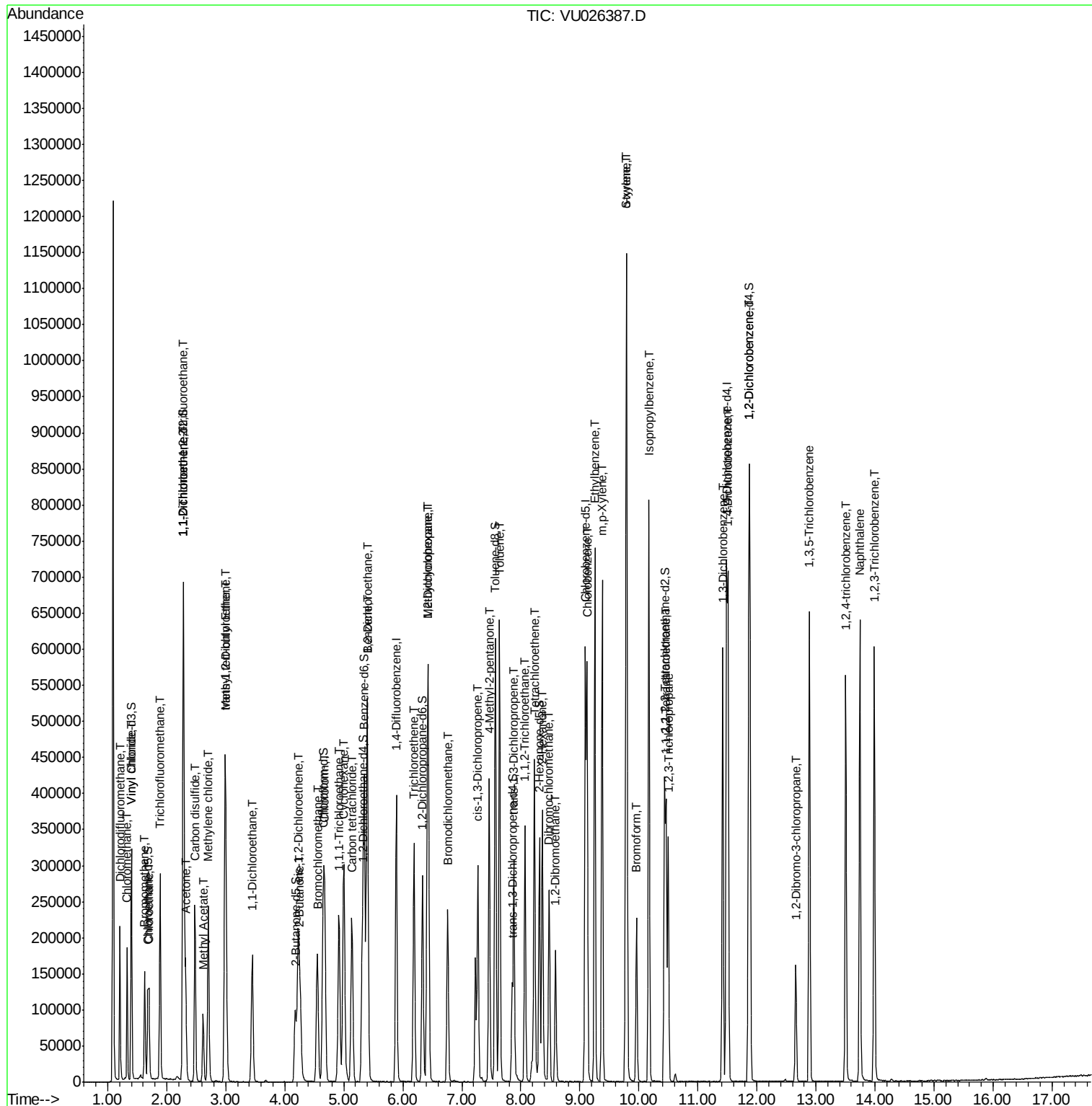
Quant Time: Aug 27 10:41:26 2018
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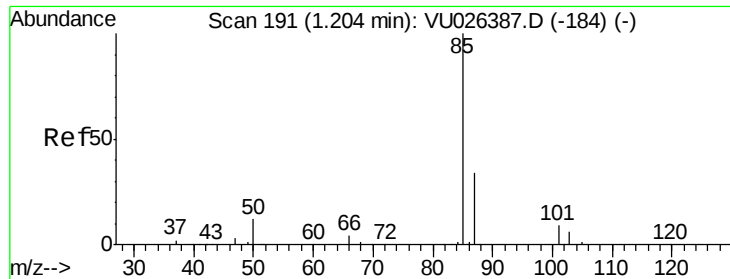
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	63786	50.264	ug/L	93
25) Chloroform	4.68	83	207969	49.721	ug/L	100
27) 1,2-Dichloroethane	5.41	62	158160	47.468	ug/L	98
29) Cyclohexane	5.00	56	152410	45.766	ug/L	97
30) 1,1,1-Trichloroethane	4.92	97	182035	48.248	ug/L	99
31) Carbon tetrachloride	5.14	117	168890	47.613	ug/L	97
33) Benzene	5.39	78	419486	47.384	ug/L	100
34) Trichloroethene	6.19	95	111733	47.729	ug/L	98
35) Methylcyclohexane	6.42	83	174291	48.688	ug/L	98
37) 1,2-Dichloropropane	6.44	63	115117	47.580	ug/L	100
38) Bromodichloromethane	6.76	83	155153	47.958	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	171821	46.754	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	267629	87.280	ug/L	99
42) Toluene	7.64	91	456620	48.476	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	171964	48.632	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	110373	48.292	ug/L	99
46) Tetrachloroethene	8.23	164	96823	48.068	ug/L	97
48) 2-Hexanone	8.36	43	232062	94.038	ug/L	99
49) Dibromochloromethane	8.48	129	138425	49.281	ug/L	99
50) 1,2-Dibromoethane	8.59	107	117029	46.392	ug/L	99
51) Chlorobenzene	9.12	112	305673	47.445	ug/L	99
52) Ethylbenzene	9.25	91	496734	48.415	ug/L	99
53) m,p-Xylene	9.38	106	197749	49.866	ug/L	100
54) o-xylene	9.78	106	185667	48.000	ug/L	97
55) Styrene	9.80	104	338672	51.293	ug/L	97
56) Isopropylbenzene	10.17	105	499350	49.763	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	178548	46.158	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	135846	45.038	ug/L	98
61) Bromoform	9.96	173	103249	47.586	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	249340	48.293	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	261396	47.915	ug/L	97
65) 1,2-Dichlorobenzene	11.88	146	262966	48.424	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	38567	42.512	ug/L	99
67) 1,3,5-Trichlorobenzene	12.89	180	205484	50.701	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	176879	49.995	ug/L	99
69) Naphthalene	13.74	128	510241	48.411	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	187687	49.792	ug/L	99

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

```
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#2

Dichlorodifluoromethane

Concen: 46.616 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Instrument :

MSVOA_U

ClientSampleId :

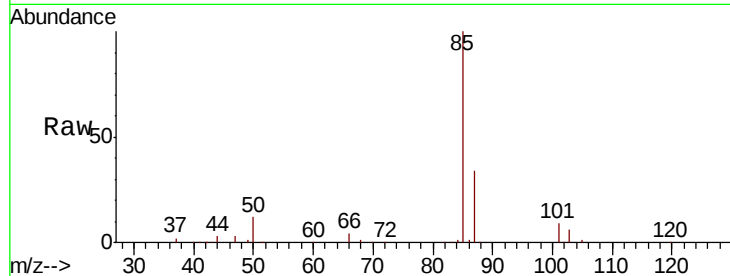
VSTD05057

Tgt Ion: 85 Resp: 121395

Ion Ratio Lower Upper

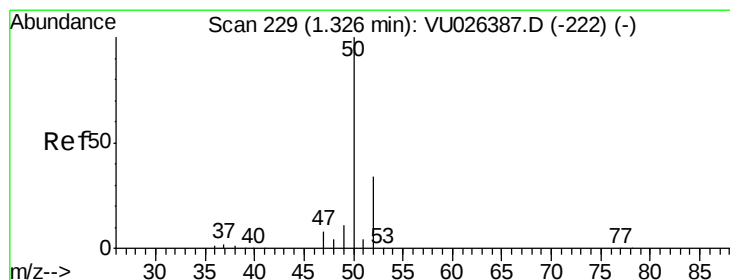
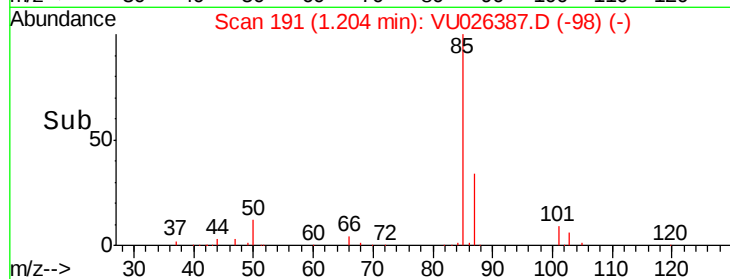
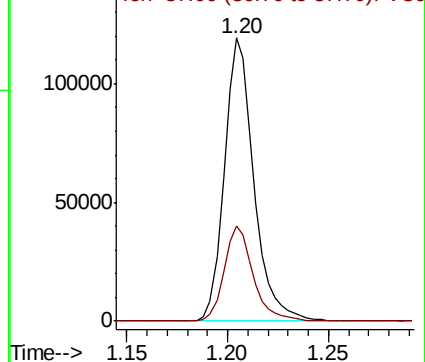
85 100

87 32.9 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 46.949 ug/L

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU026387.D

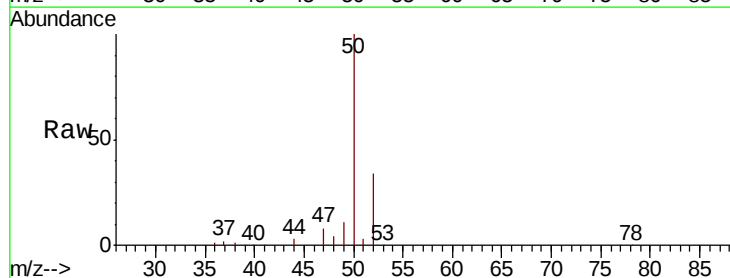
Acq: 27 Aug 2018 10:12

Tgt Ion: 50 Resp: 112723

Ion Ratio Lower Upper

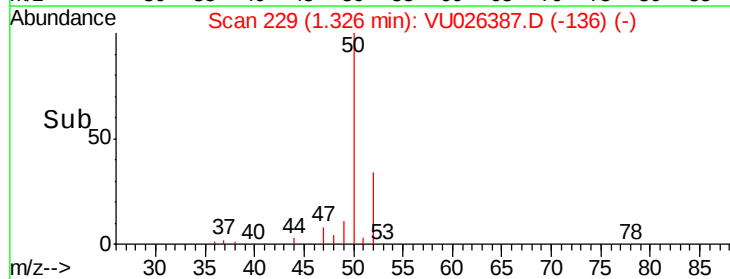
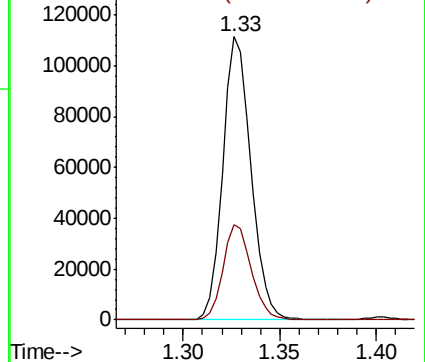
50 100

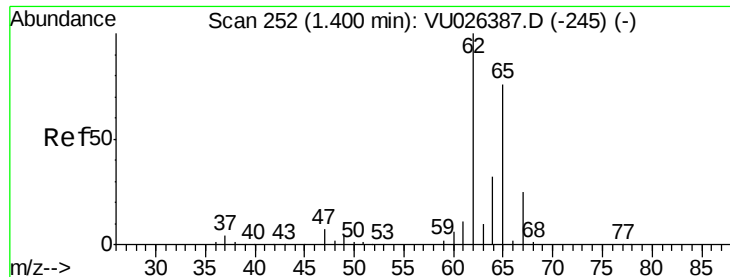
52 33.5 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 47.018 ug/L

RT: 1.40 min Scan# 252

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Instrument :

MSVOA_U

ClientSampleId :

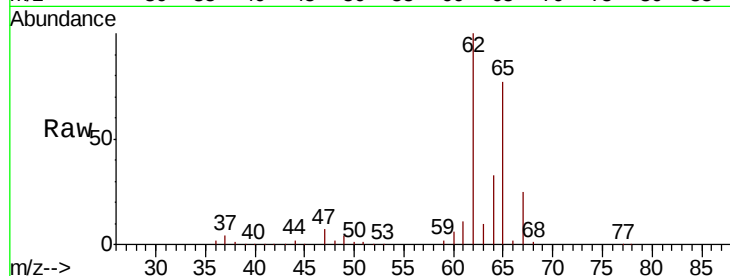
VSTD05057

Tgt Ion: 62 Resp: 113738

Ion Ratio Lower Upper

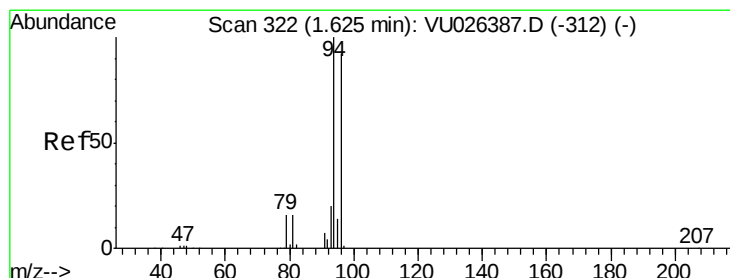
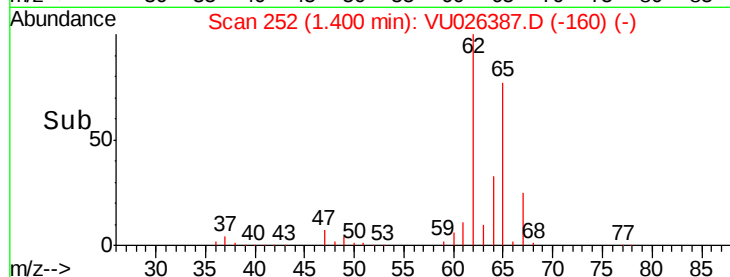
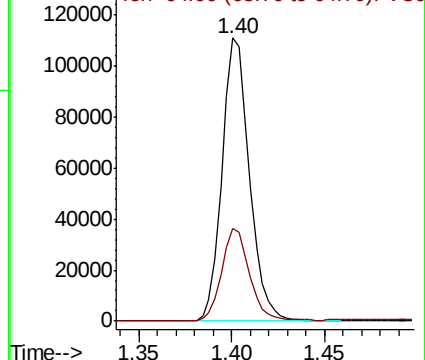
62 100

64 32.6 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 45.596 ug/L

RT: 1.63 min Scan# 322

Delta R.T. -0.01 min

Lab File: VU026387.D

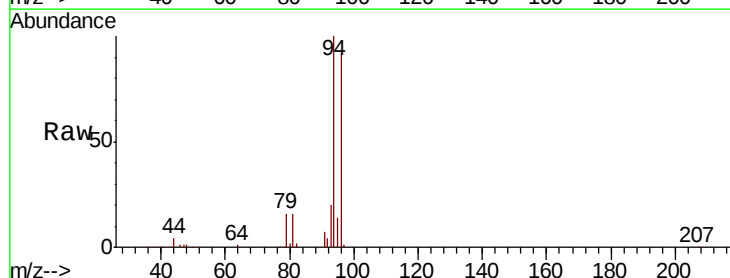
Acq: 27 Aug 2018 10:12

Tgt Ion: 94 Resp: 68580

Ion Ratio Lower Upper

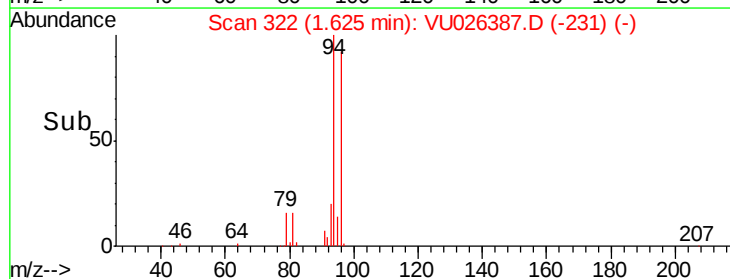
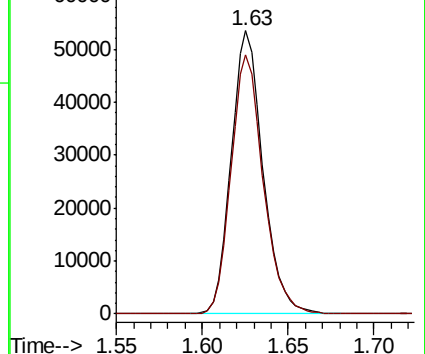
94 100

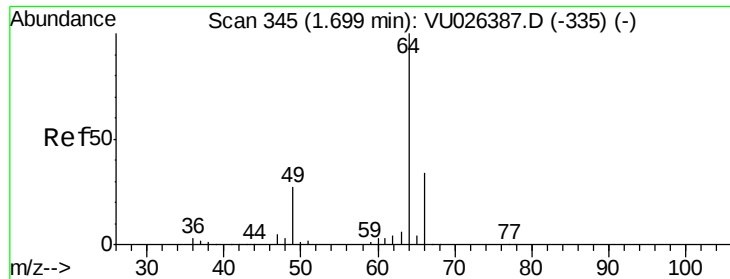
96 91.7 66.6 123.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 47.087 ug/L

RT: 1.70 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Instrument :

MSVOA_U

ClientSampleId :

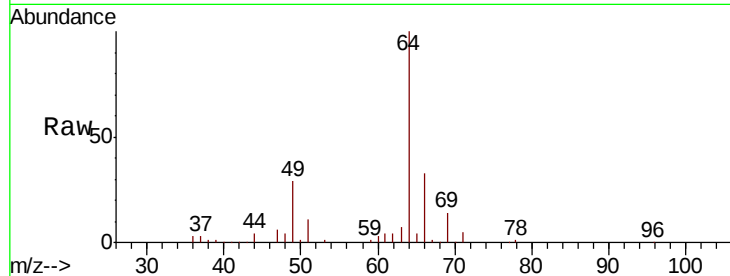
VSTD05057

Tgt Ion: 64 Resp: 65320

Ion Ratio Lower Upper

64 100

66 33.4 21.1 39.1



Abundance Ion 64.00 (63.70 to 64.70): VU026387.D (-335) (-)

Ion 66.00 (65.70 to 66.70): VU026387.D (-335) (-)

1.70

50000

40000

30000

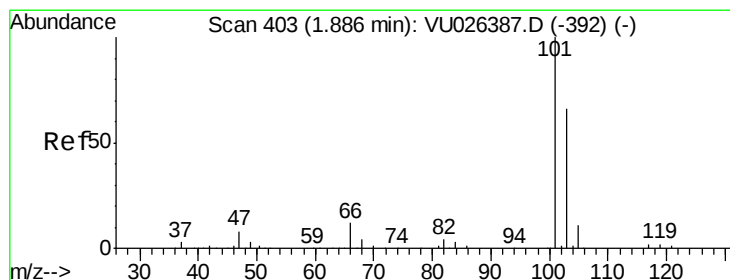
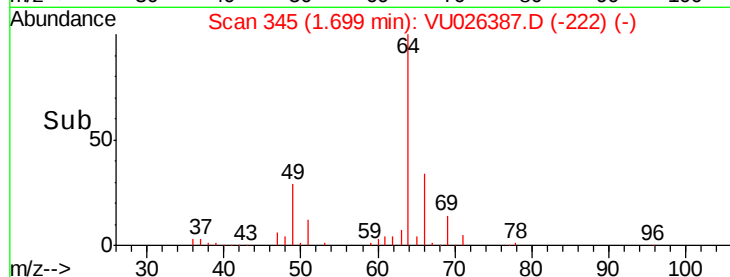
20000

10000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 50.134 ug/L

RT: 1.89 min Scan# 403

Delta R.T. -0.00 min

Lab File: VU026387.D

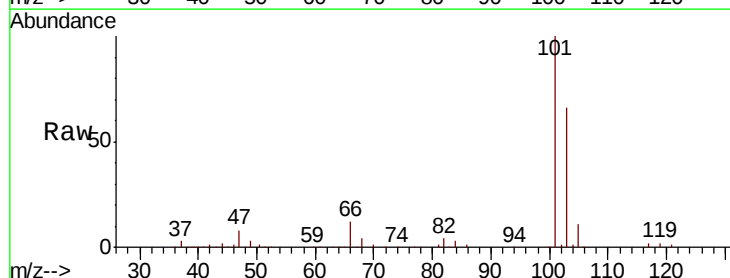
Acq: 27 Aug 2018 10:12

Tgt Ion: 101 Resp: 171770

Ion Ratio Lower Upper

101 100

103 65.6 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): VU026387.D (-392) (-)

Ion 103.00 (102.70 to 103.70): VU026387.D (-392) (-)

1.89

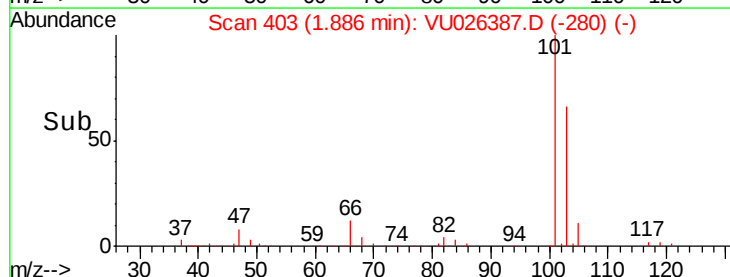
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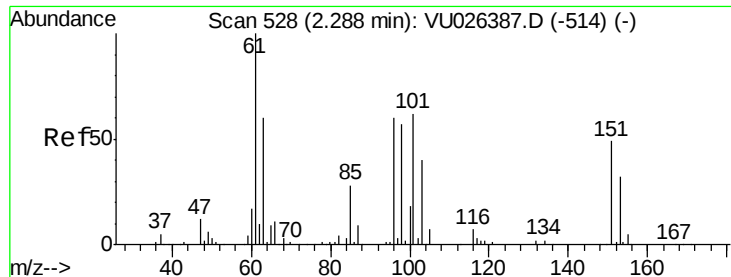
50000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 53.361 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU026387.D

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ClientSampleId :

VSTD05057

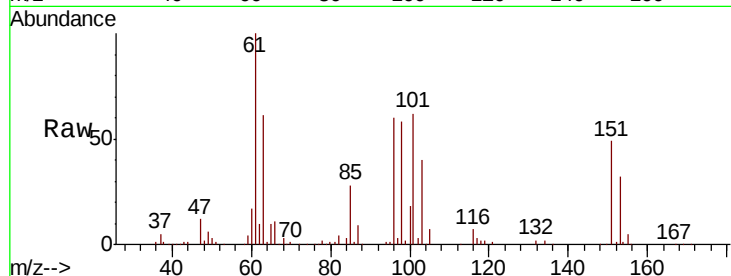
Tgt Ion: 101 Resp: 101446

Ion Ratio Lower Upper

101 100

85 45.5 35.4 53.2

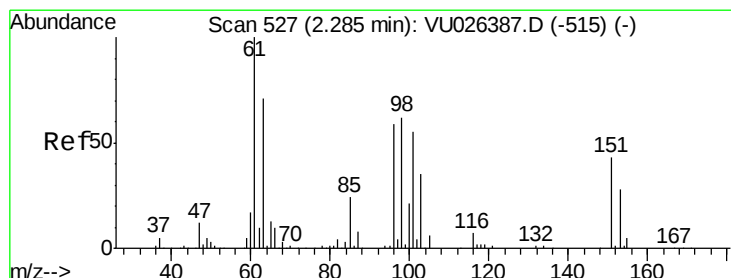
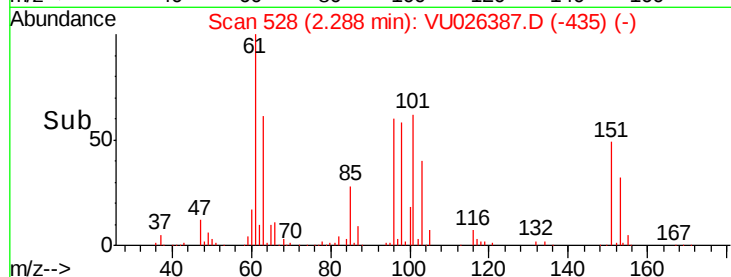
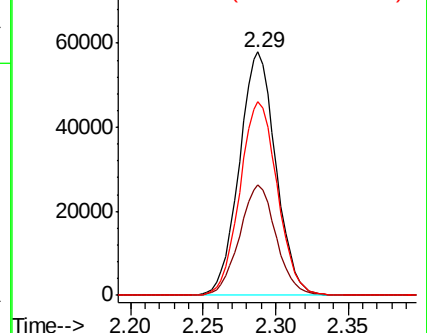
151 81.7 62.3 93.5



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: 52.001 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

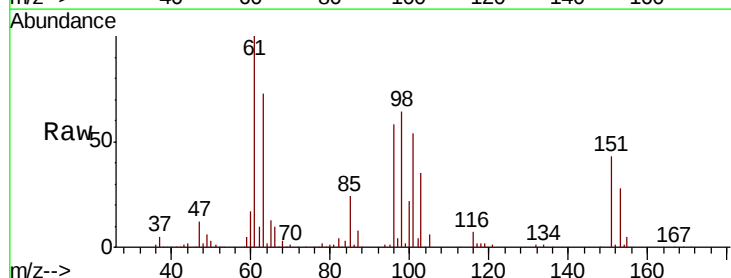
Tgt Ion: 96 Resp: 90768

Ion Ratio Lower Upper

96 100

61 171.0 125.0 232.2

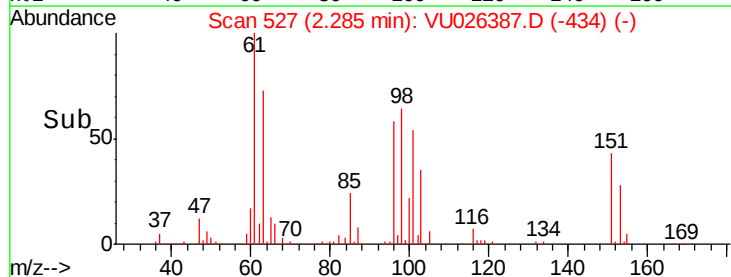
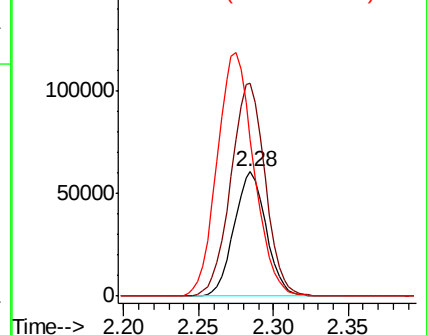
63 125.6 100.9 187.3

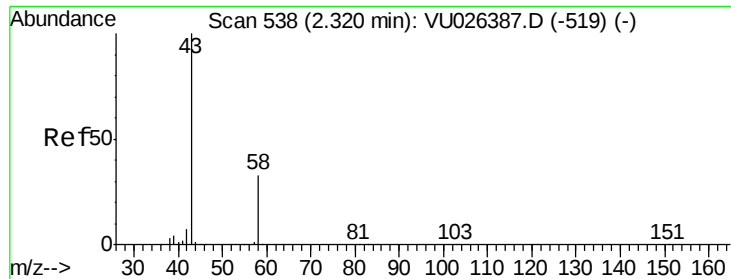


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 125.975 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU026387.D

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ClientSampleId :

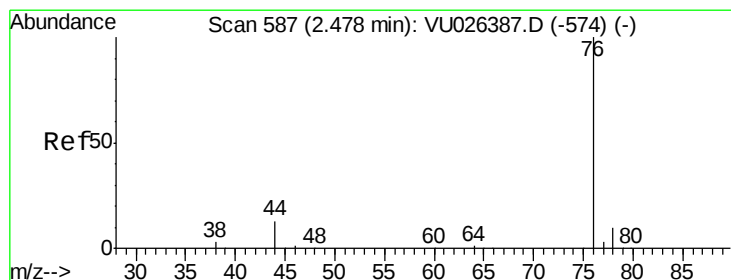
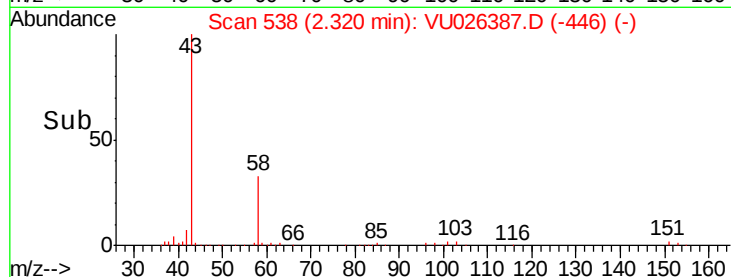
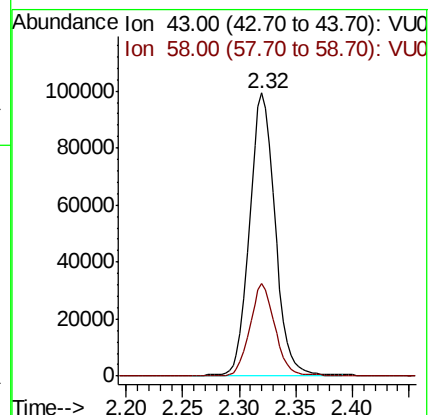
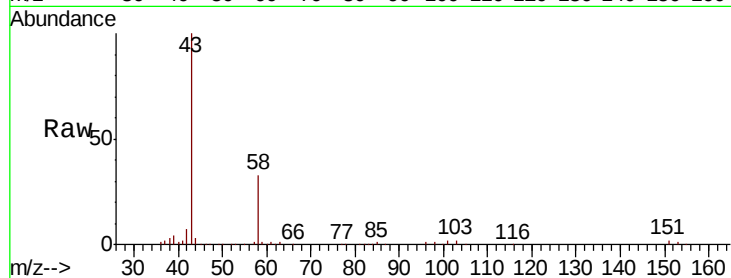
VSTD05057

Tgt Ion: 43 Resp: 157405

Ion Ratio Lower Upper

43 100

58 31.7 0.0 63.6



#14

Carbon disulfide

Concen: 44.164 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU026387.D

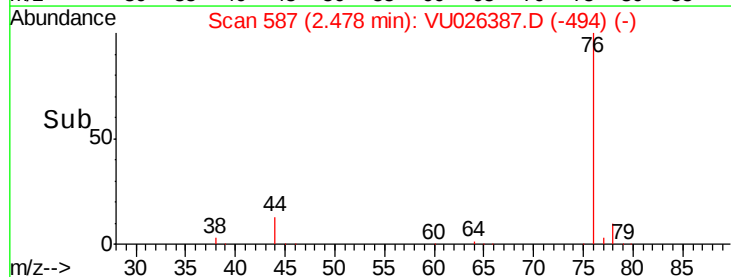
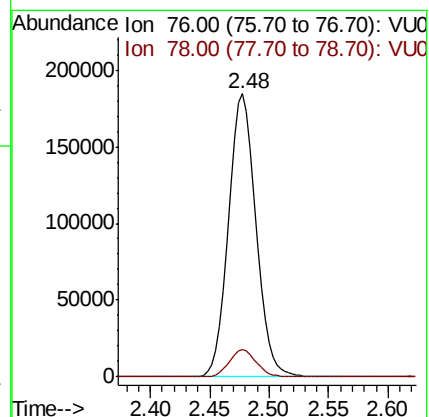
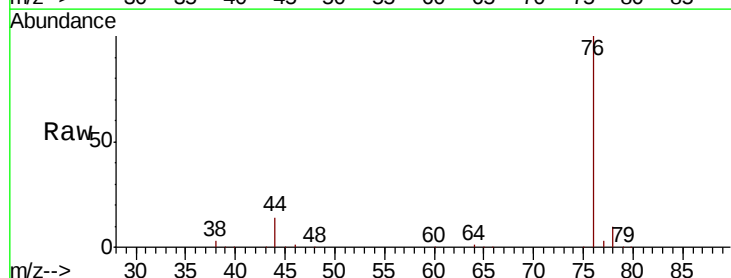
Acq: 27 Aug 2018 10:12

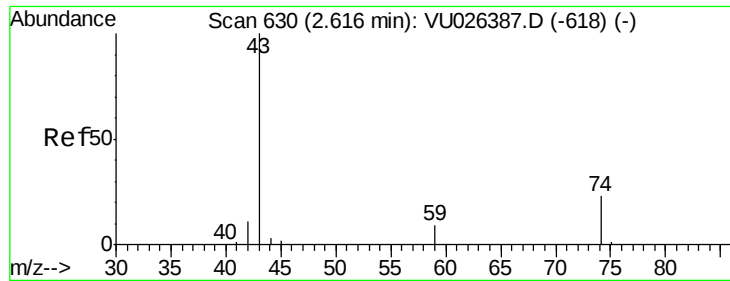
Tgt Ion: 76 Resp: 295742

Ion Ratio Lower Upper

76 100

78 9.7 7.3 10.9

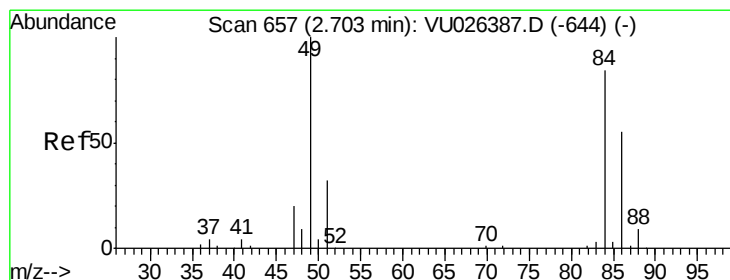
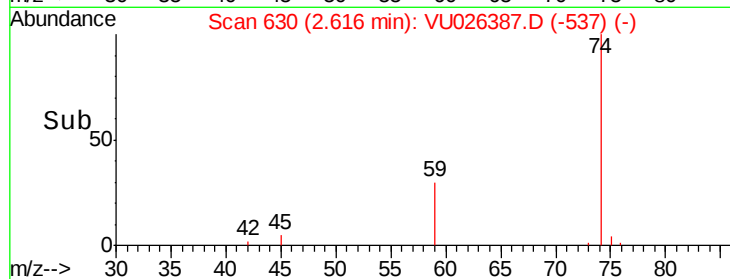
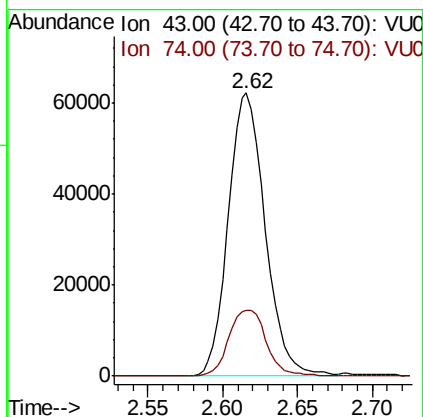
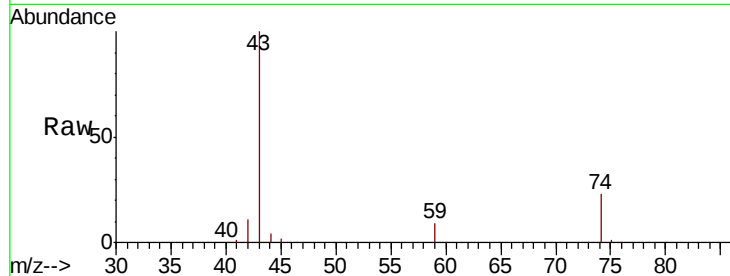




#15
Methyl Acetate
Concen: 44.538 ug/L
RT: 2.62 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU026387.D
Acq: 27 Aug 2018 10:12

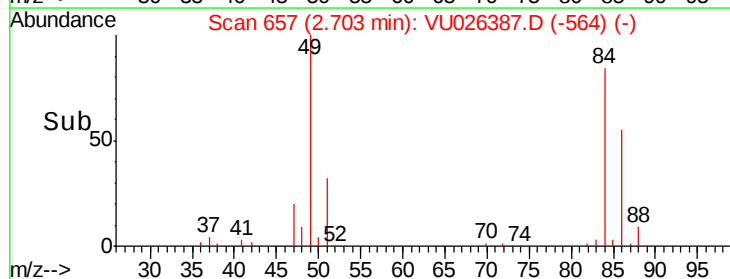
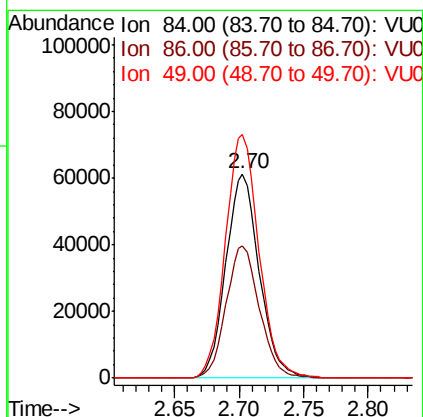
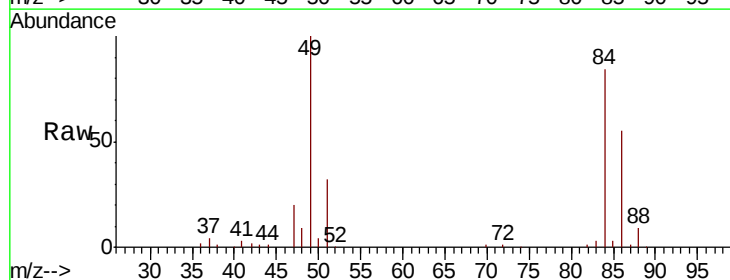
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

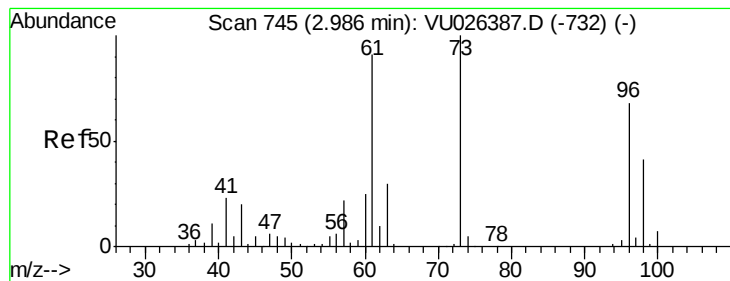
Tgt Ion: 43 Resp: 107099
Ion Ratio Lower Upper
43 100
74 23.7 18.3 27.5



#16
Methylene chloride
Concen: 46.945 ug/L
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU026387.D
Acq: 27 Aug 2018 10:12

Tgt Ion: 84 Resp: 110273
Ion Ratio Lower Upper
84 100
86 65.0 45.8 85.0
49 119.1 85.5 158.7





#17

trans-1,2-Dichloroethene

Concen: 47.184 ug/L

RT: 2.99 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

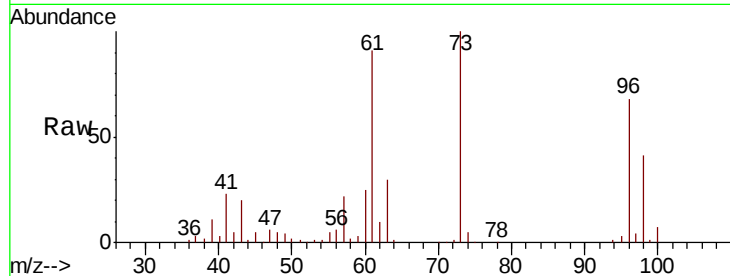
Tgt Ion: 96 Resp: 101518

Ion Ratio Lower Upper

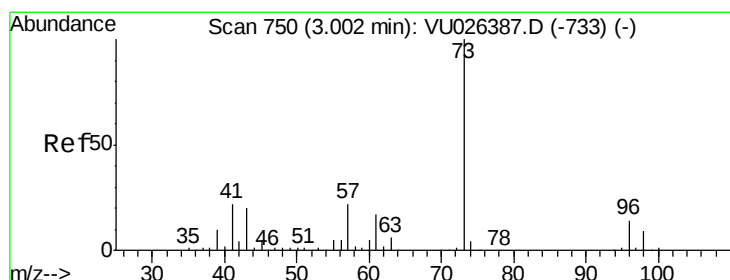
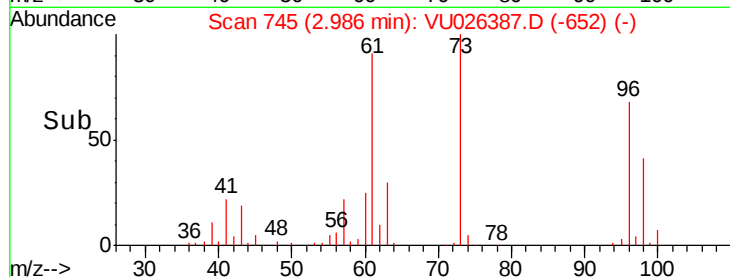
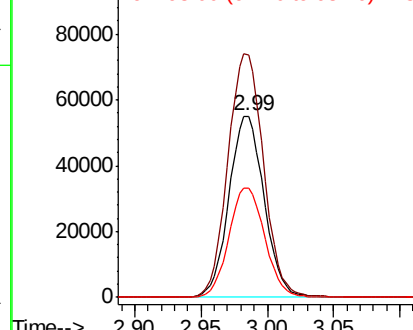
96 100

61 133.9 97.7 181.5

98 60.3 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 47.545 ug/L

RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

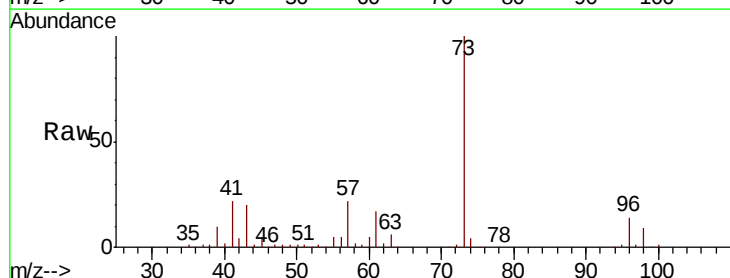
Tgt Ion: 73 Resp: 306453

Ion Ratio Lower Upper

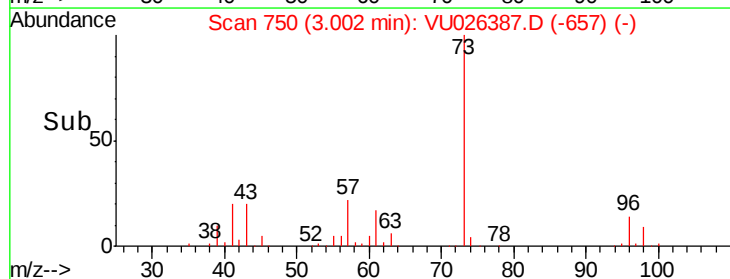
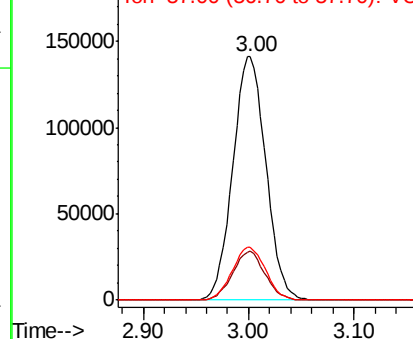
73 100

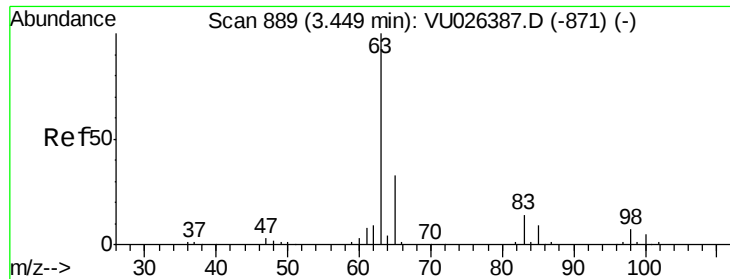
43 19.6 15.6 23.4

57 21.9 17.8 26.8



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

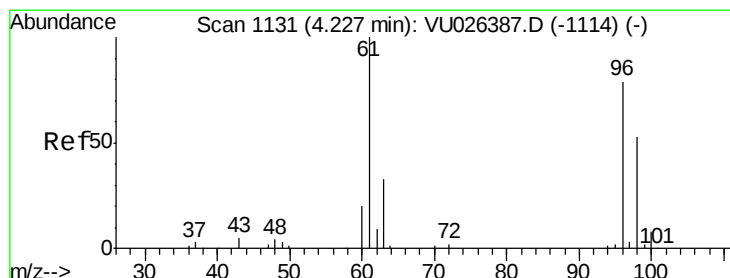
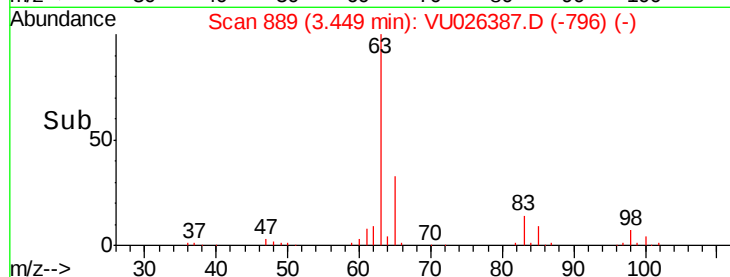
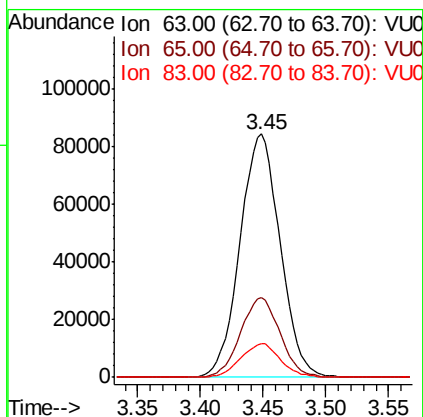
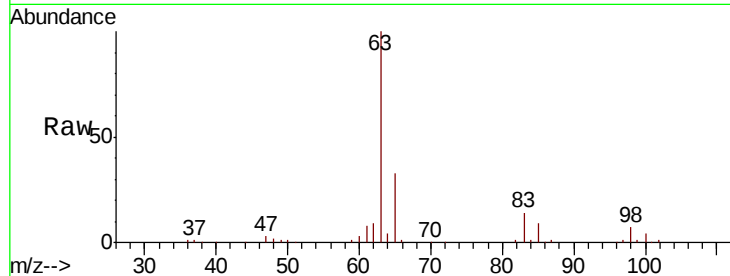




#19
 1,1-Dichloroethane
 Concen: 47.884 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

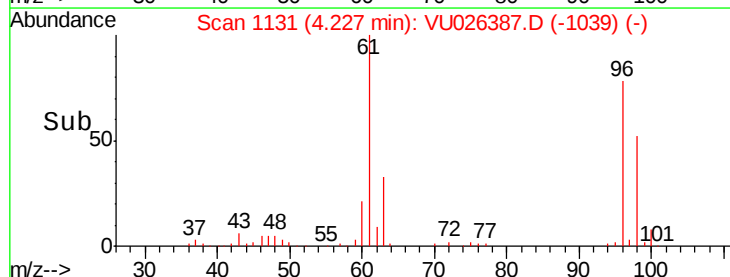
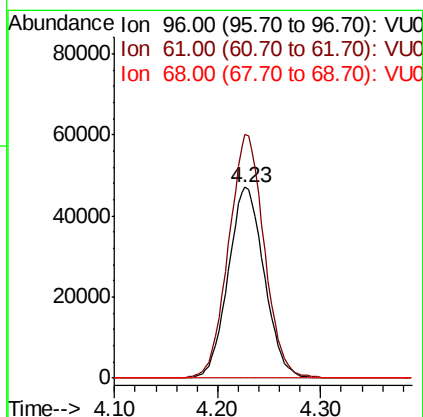
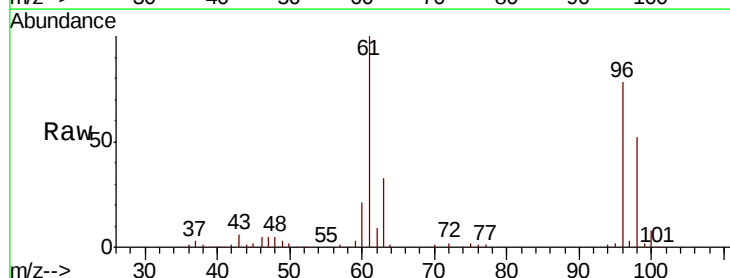
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05057

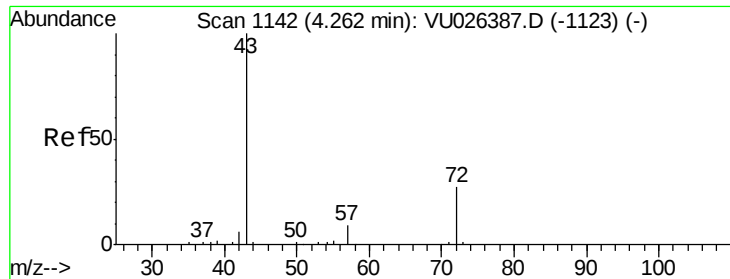
Tgt Ion: 63 Resp: 187612
 Ion Ratio Lower Upper
 63 100
 65 32.8 22.0 41.0
 83 14.0 9.4 17.6



#20
 cis-1,2-Dichloroethene
 Concen: 48.135 ug/L
 RT: 4.23 min Scan# 1131
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

Tgt Ion: 96 Resp: 114314
 Ion Ratio Lower Upper
 96 100
 61 127.8 88.8 165.0
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 103.596 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Instrument :

MSVOA_U

ClientSampleId :

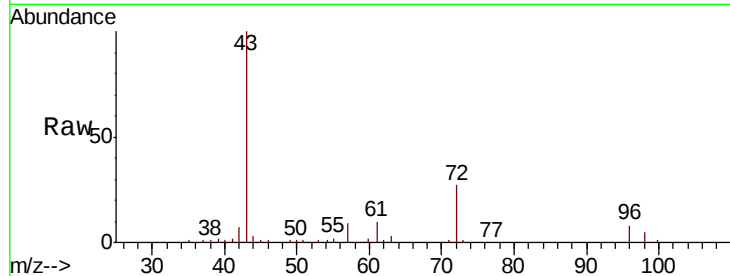
VSTD05057

Tgt Ion: 43 Resp: 173181

Ion Ratio Lower Upper

43 100

72 27.3 13.2 39.6



Abundance Ion 43.00 (42.70 to 43.70): VU026387.D (-1123) (-)

Ion 72.00 (71.70 to 72.70): VU026387.D (-1123) (-)

4.26

60000

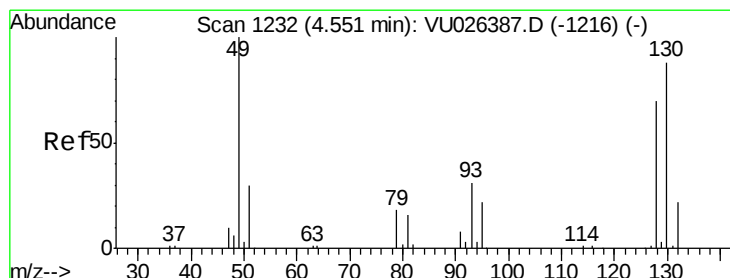
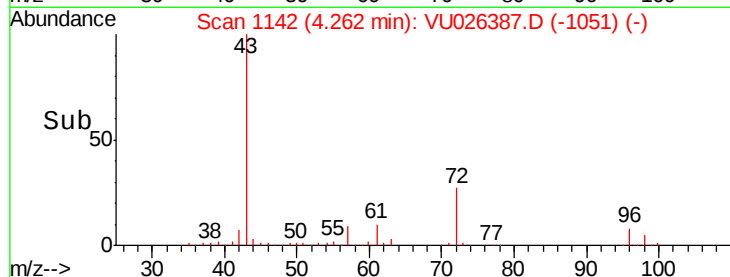
40000

20000

0

Time-->

4.20 4.30 4.40



#23

Bromochloromethane

Concen: 50.264 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Tgt Ion: 128 Resp: 63786

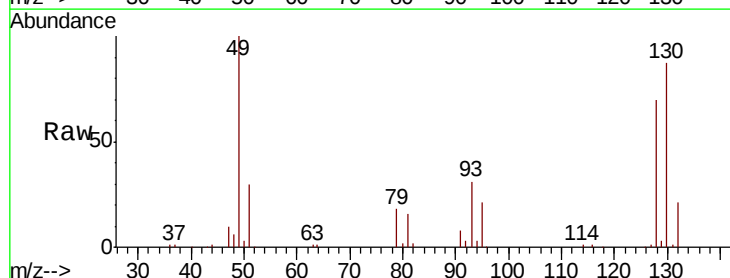
Ion Ratio Lower Upper

128 100

49 143.7 108.6 201.6

130 125.3 92.0 170.8

51 43.0 37.5 56.3



Abundance Ion 128.00 (127.70 to 128.70): VU026387.D (-1216) (-)

Ion 49.00 (48.70 to 49.70): VU026387.D (-1216) (-)

Ion 130.00 (129.70 to 130.70): VU026387.D (-1216) (-)

Ion 51.00 (50.70 to 51.70): VU026387.D (-1216) (-)

4.55

60000

50000

40000

30000

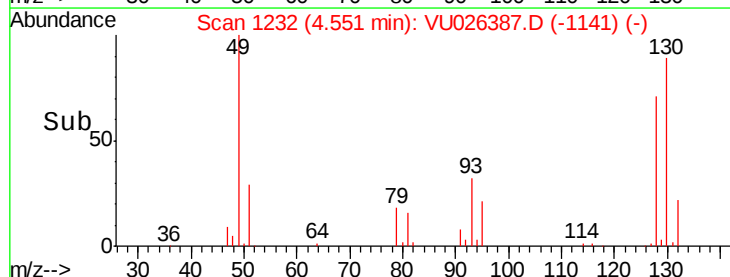
20000

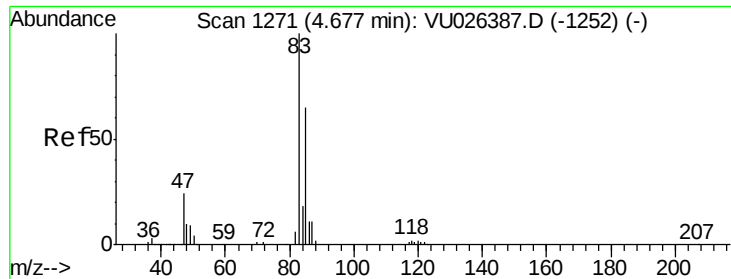
10000

0

Time-->

4.45 4.50 4.55 4.60 4.65





#25

Chloroform

Concen: 49.721 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Instrument :

MSVOA_U

ClientSampleId :

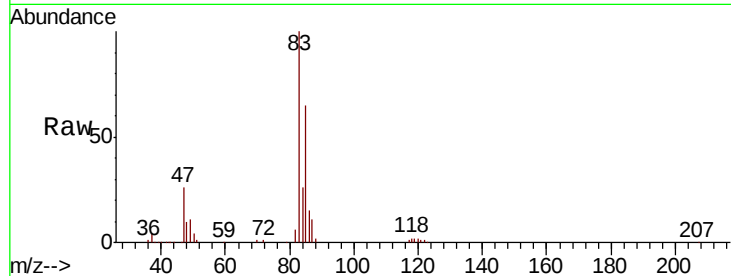
VSTD05057

Tgt Ion: 83 Resp: 207969

Ion Ratio Lower Upper

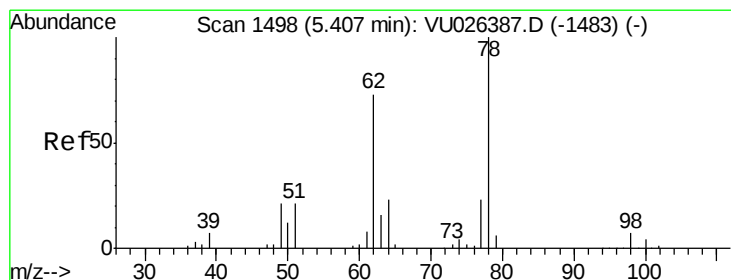
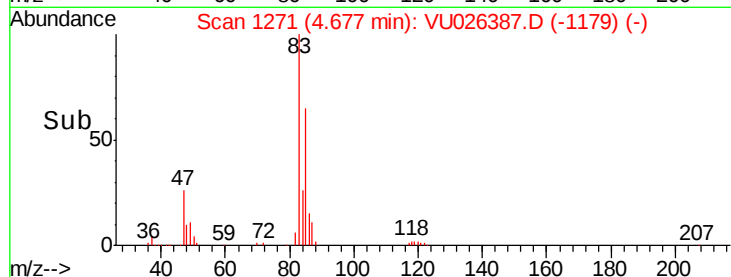
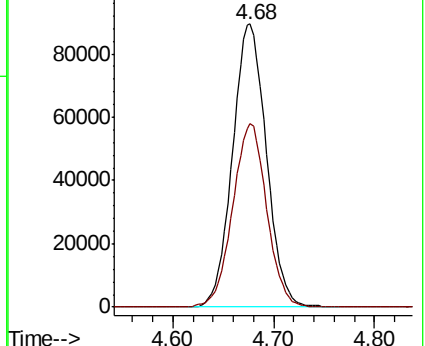
83 100

85 65.0 45.2 84.0



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 47.468 ug/L

RT: 5.41 min Scan# 1498

Delta R.T. -0.00 min

Lab File: VU026387.D

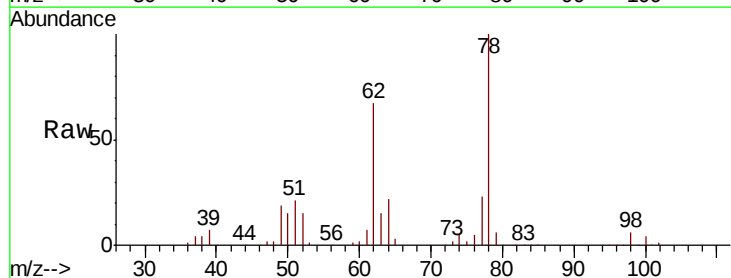
Acq: 27 Aug 2018 10:12

Tgt Ion: 62 Resp: 158160

Ion Ratio Lower Upper

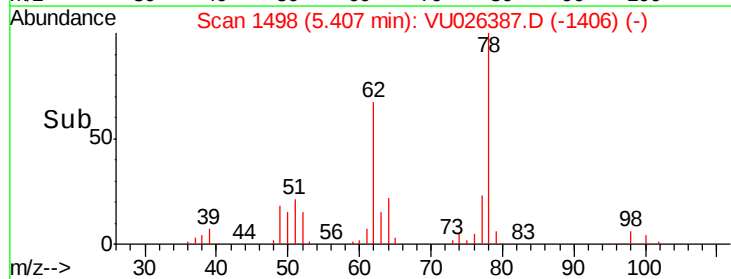
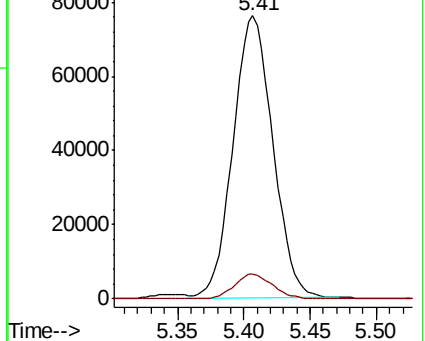
62 100

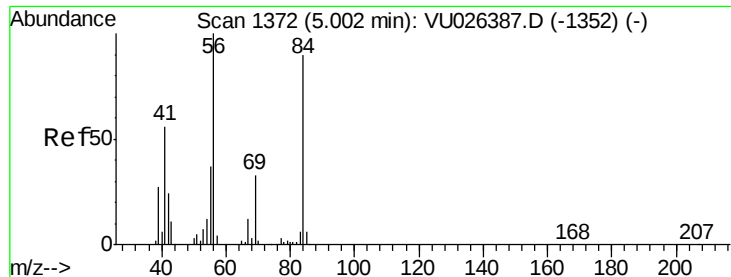
98 8.9 6.6 9.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

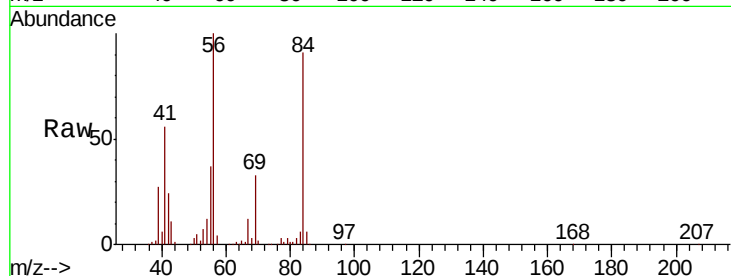




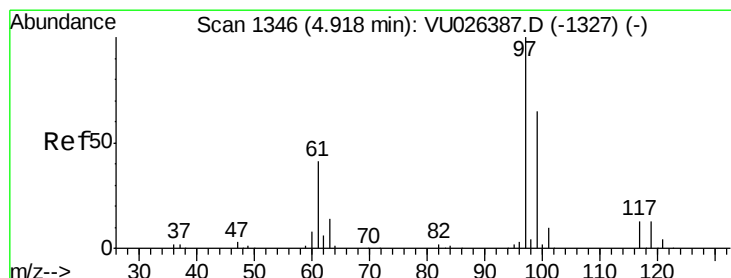
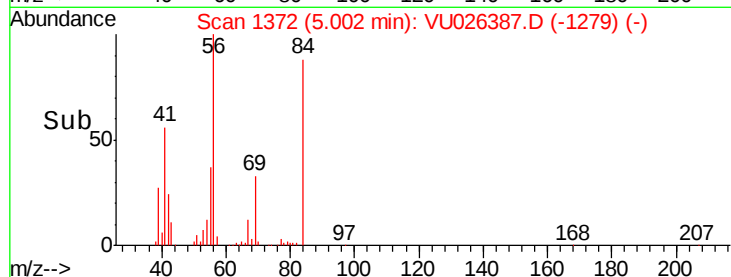
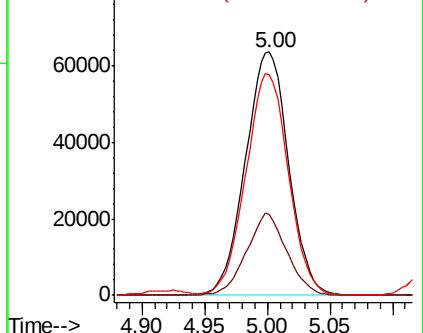
#29
Cyclohexane
Concen: 45.766 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. -0.00 min
Lab File: VU026387.D
Acq: 27 Aug 2018 10:12

Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

Tgt Ion: 56 Resp: 152410
Ion Ratio Lower Upper
56 100
69 31.4 24.6 37.0
84 90.3 69.7 104.5

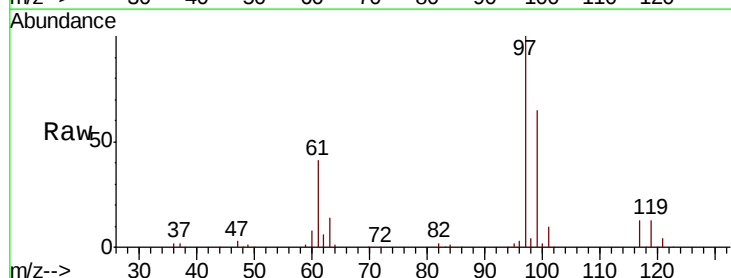


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

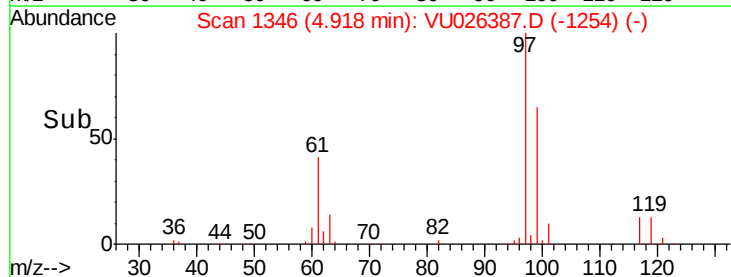
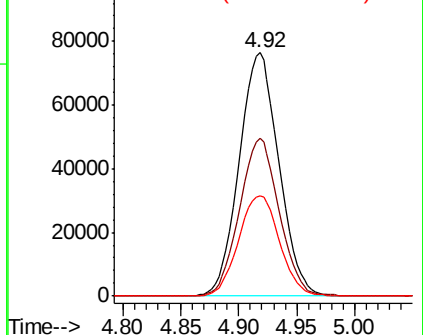


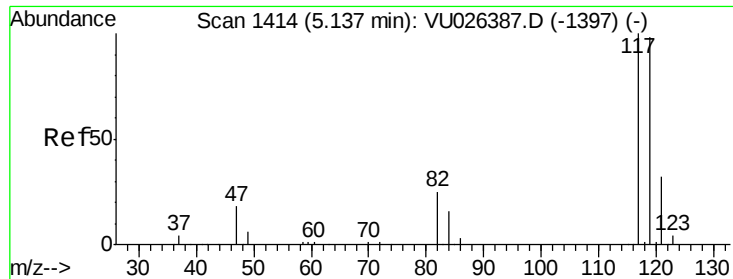
#30
1,1,1-Trichloroethane
Concen: 48.248 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VU026387.D
Acq: 27 Aug 2018 10:12

Tgt Ion: 97 Resp: 182035
Ion Ratio Lower Upper
97 100
99 64.5 52.4 78.6
61 42.7 34.5 51.7



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 47.613 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Instrument :

MSVOA_U

ClientSampleId :

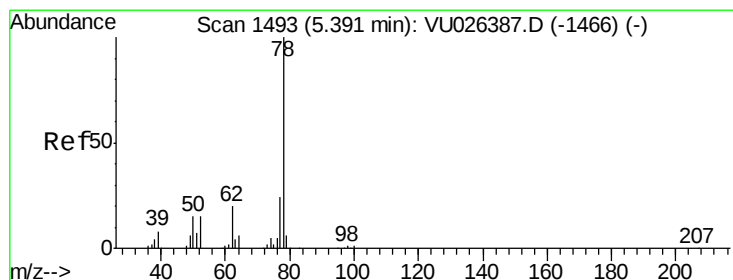
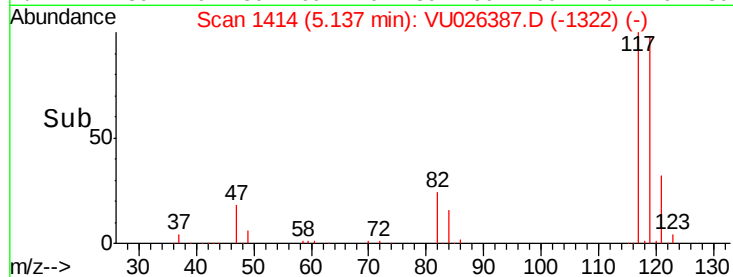
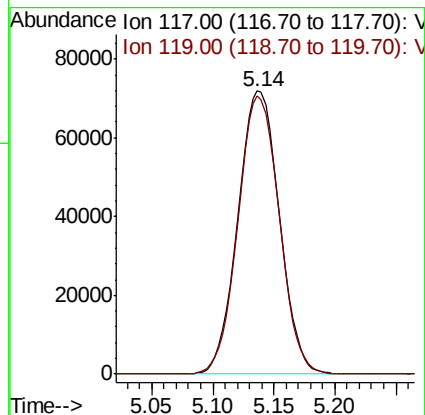
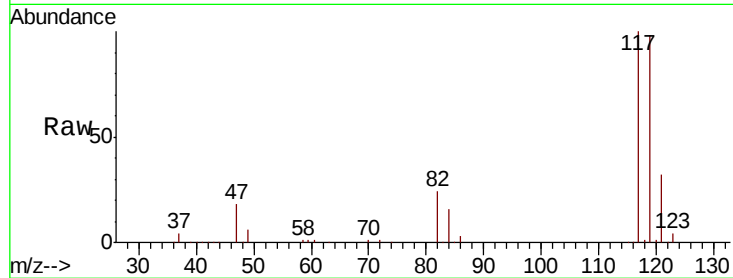
VSTD05057

Tgt Ion:117 Resp: 168890

Ion Ratio Lower Upper

117 100

119 97.7 75.9 113.9



#33

Benzene

Concen: 47.384 ug/L

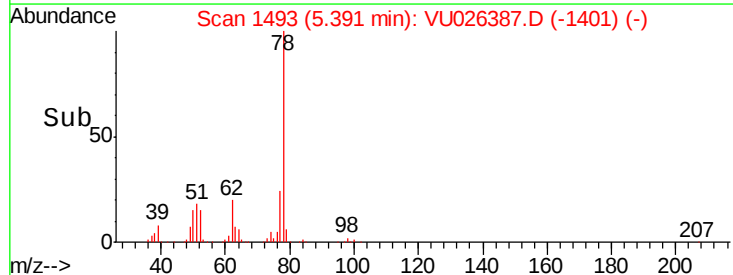
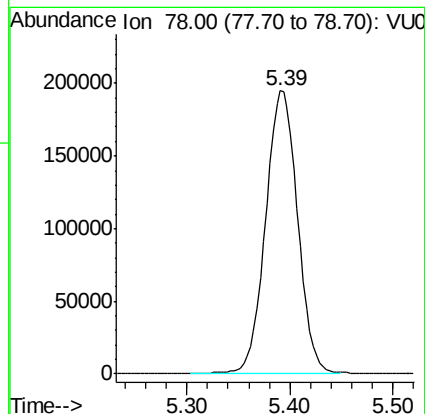
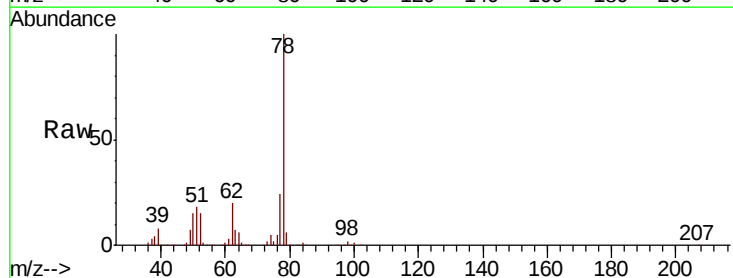
RT: 5.39 min Scan# 1493

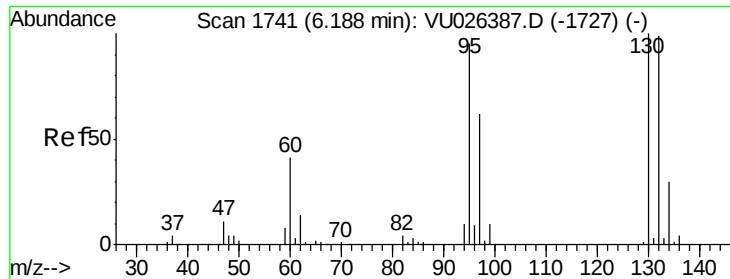
Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Tgt Ion: 78 Resp: 419486

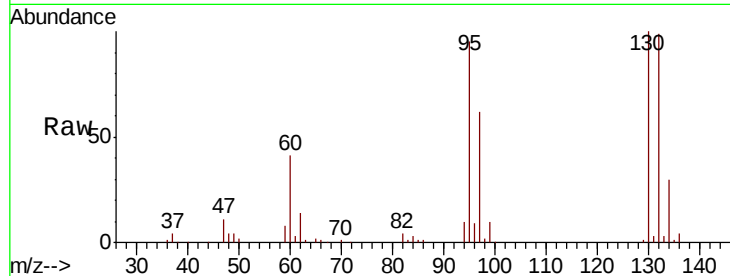




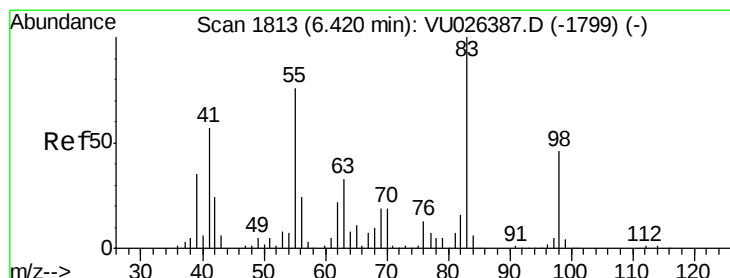
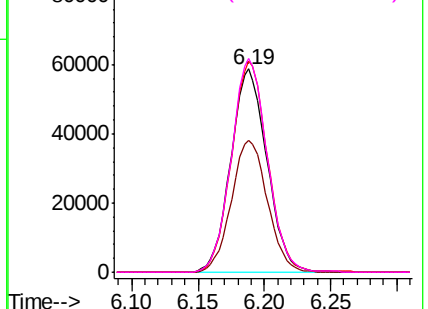
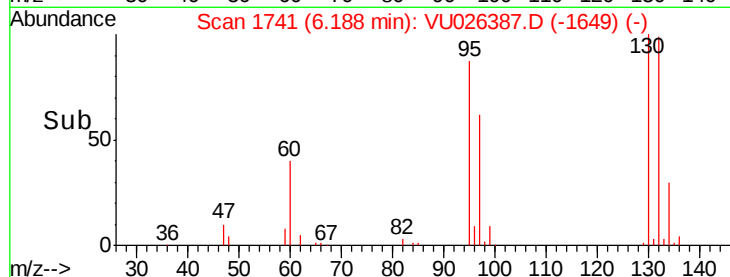
#34
 Trichloroethene
 Concen: 47.729 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tgt Ion: 95 Resp: 111733
 Ion Ratio Lower Upper
 95 100
 97 65.0 45.7 84.9
 132 104.0 70.3 130.7
 130 105.2 73.3 136.1

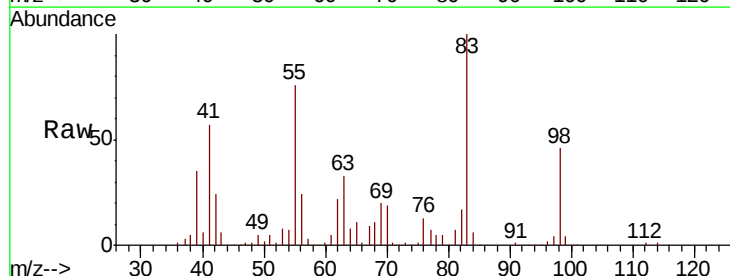


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

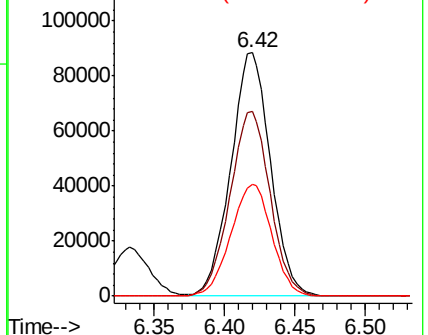
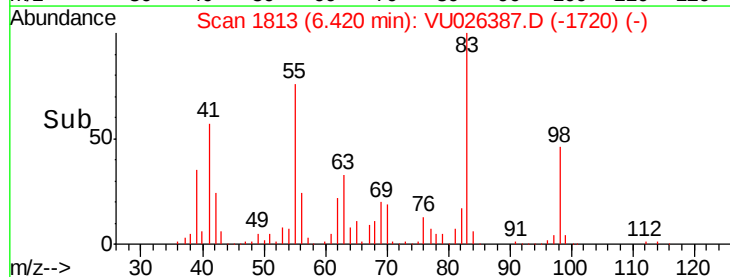


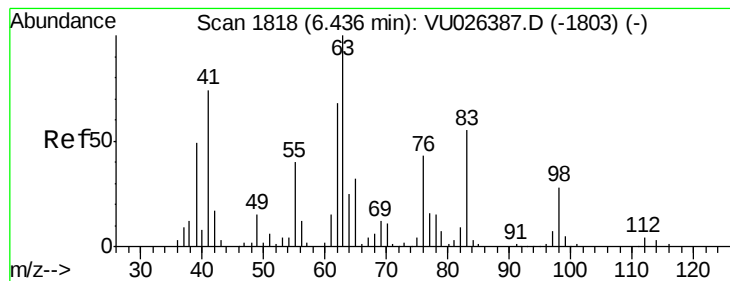
#35
 Methylcyclohexane
 Concen: 48.688 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

Tgt Ion: 83 Resp: 174291
 Ion Ratio Lower Upper
 83 100
 55 76.6 62.2 93.2
 98 47.5 36.9 55.3



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: 47.580 ug/L

RT: 6.44 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Instrument :

MSVOA_U

ClientSampleId :

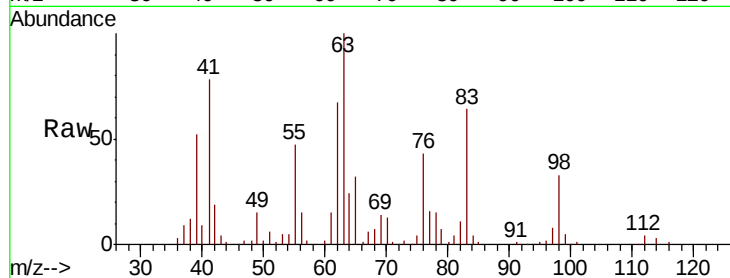
VSTD05057

Tgt Ion: 63 Resp: 115117

Ion Ratio Lower Upper

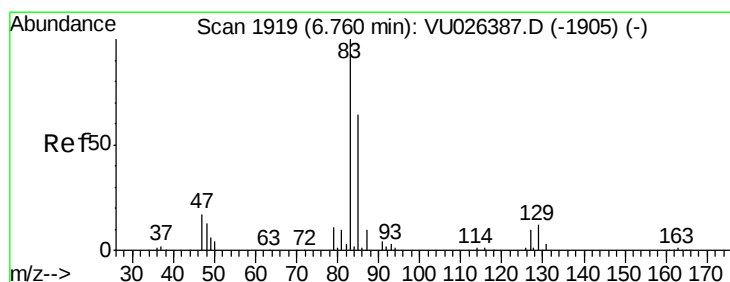
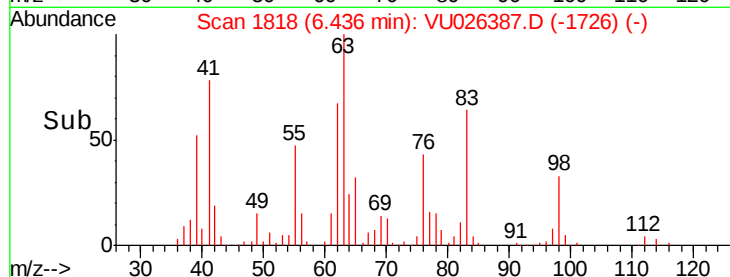
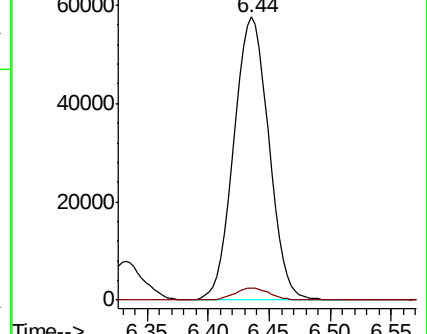
63 100

112 4.2 3.3 4.9



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V



#38

Bromodichloromethane

Concen: 47.958 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

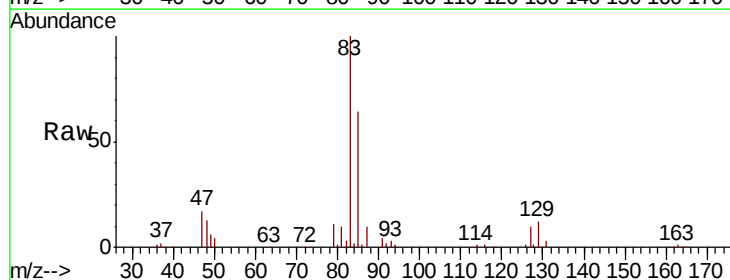
Tgt Ion: 83 Resp: 155153

Ion Ratio Lower Upper

83 100

85 63.6 42.9 79.7

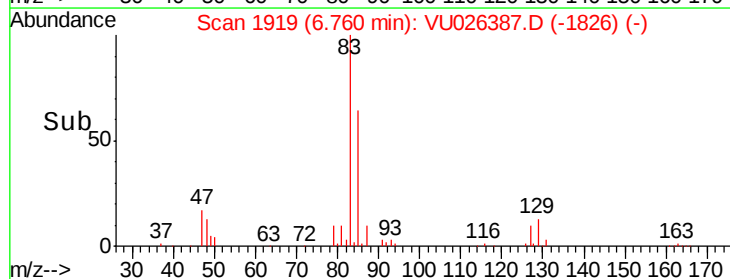
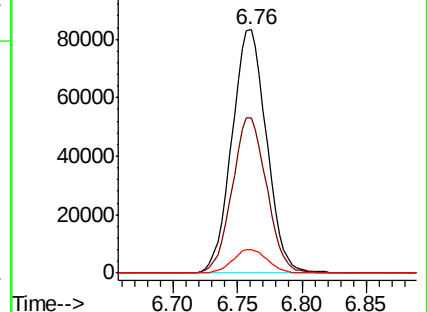
127 9.7 7.4 11.0

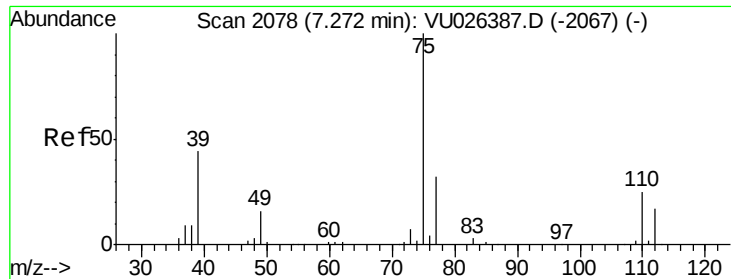


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V

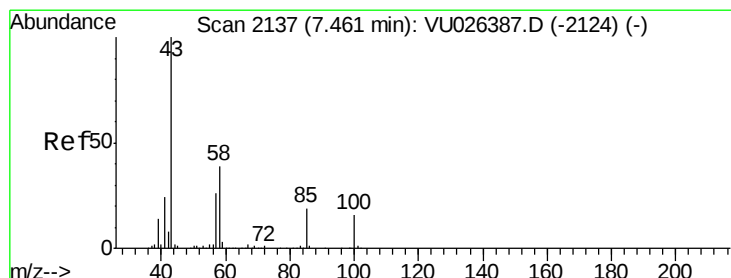
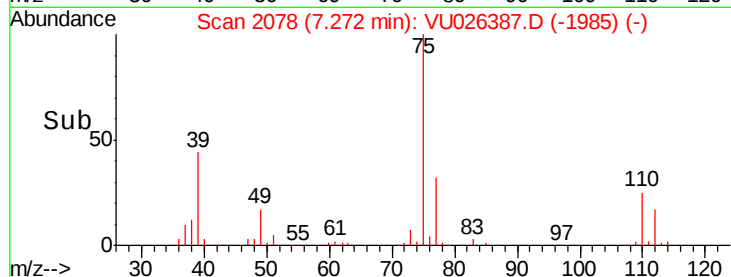
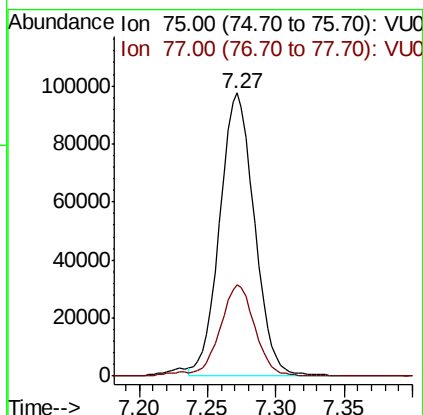
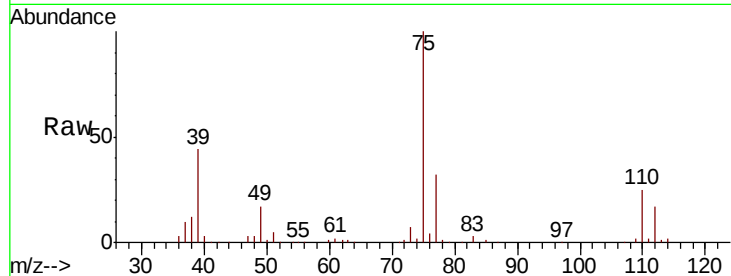




#39
 cis-1,3-Dichloropropene
 Concen: 46.754 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

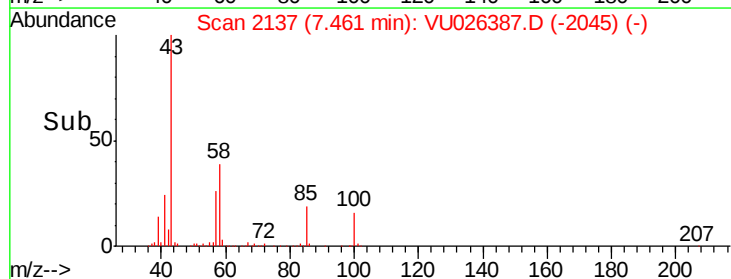
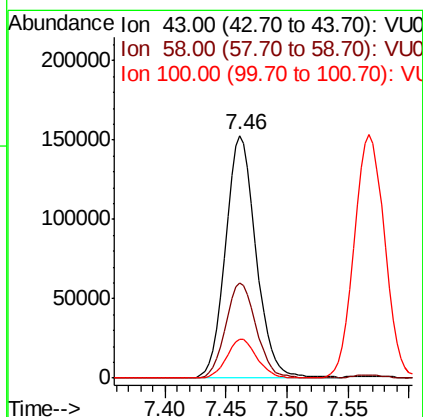
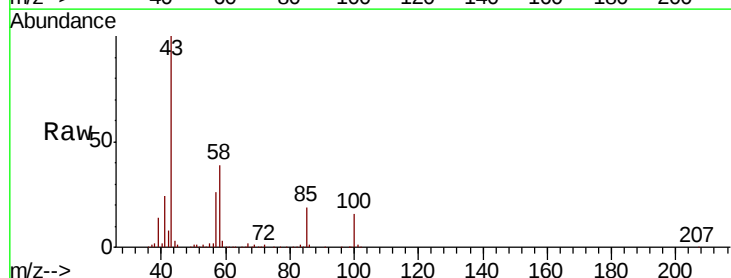
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05057

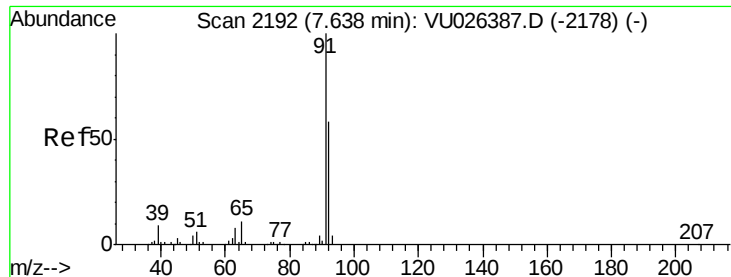
Tgt Ion: 75 Resp: 171821
 Ion Ratio Lower Upper
 75 100
 77 32.3 23.3 43.3



#40
 4-Methyl-2-pentanone
 Concen: 87.280 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

Tgt Ion: 43 Resp: 267629
 Ion Ratio Lower Upper
 43 100
 58 39.4 31.1 46.7
 100 16.0 12.2 18.2





#42

Toluene

Concen: 48.476 ug/L

RT: 7.64 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Instrument :

MSVOA_U

ClientSampleId :

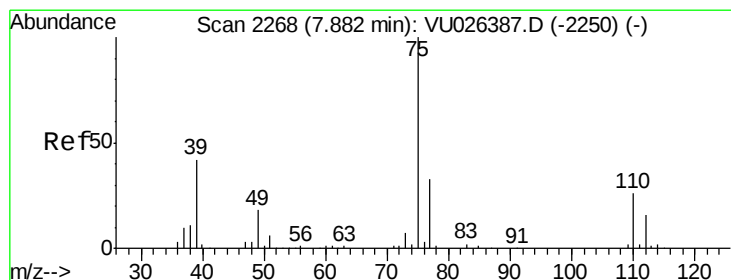
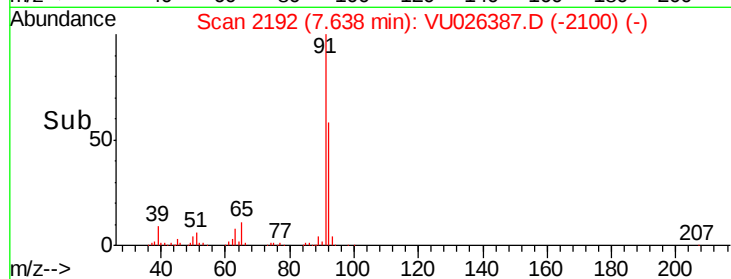
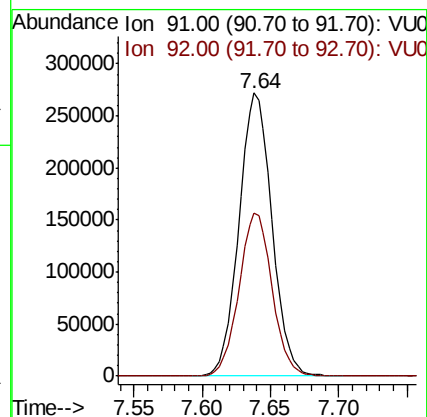
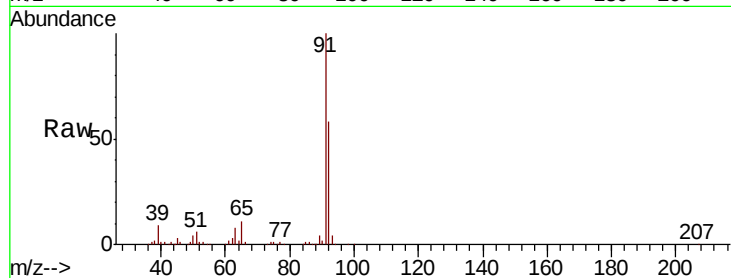
VSTD05057

Tgt Ion: 91 Resp: 456620

Ion Ratio Lower Upper

91 100

92 57.7 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 48.632 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU026387.D

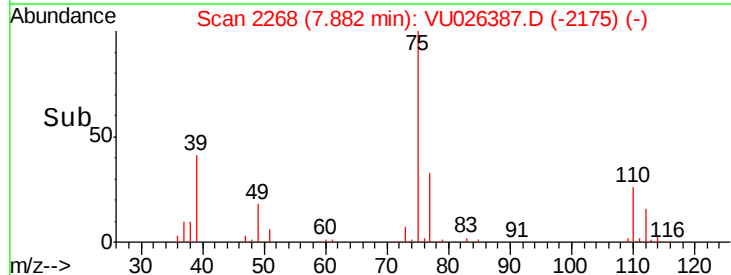
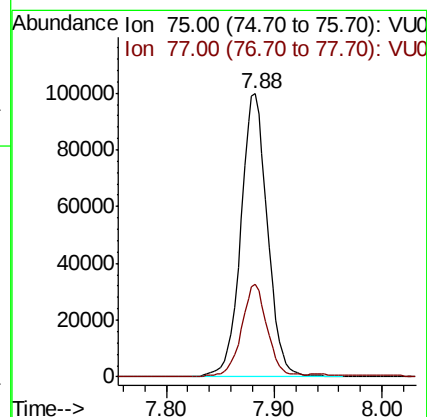
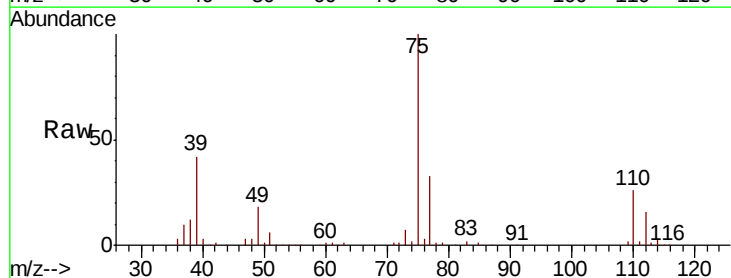
Acq: 27 Aug 2018 10:12

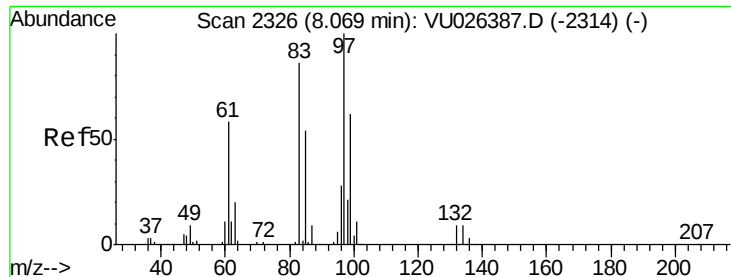
Tgt Ion: 75 Resp: 171964

Ion Ratio Lower Upper

75 100

77 32.7 22.0 41.0

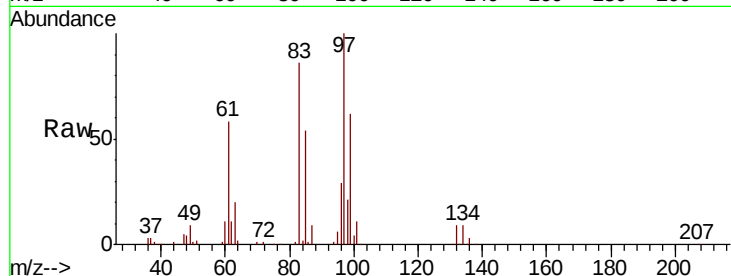




#45
 1,1,2-Trichloroethane
 Concen: 48.292 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tgt Ion:	97	Resp:	110373
Ion	Ratio	Lower	Upper
97	100		
99	61.9	42.1	78.1
83	85.6	59.8	111.0
85	54.1	37.9	70.3



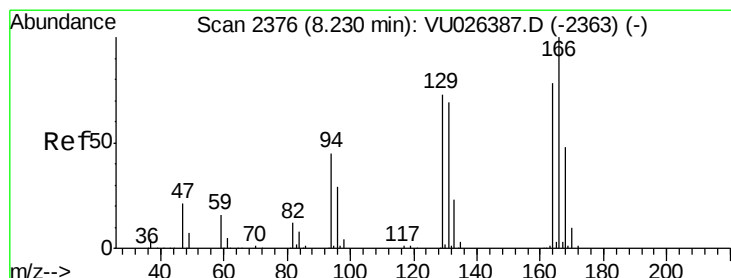
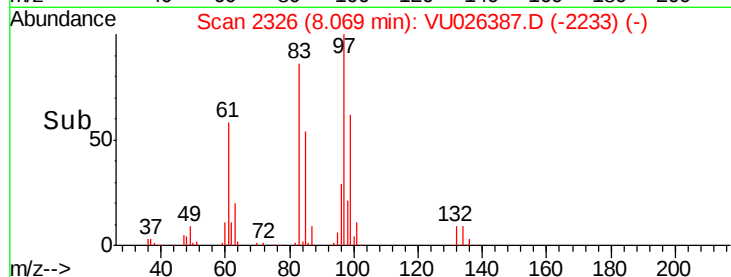
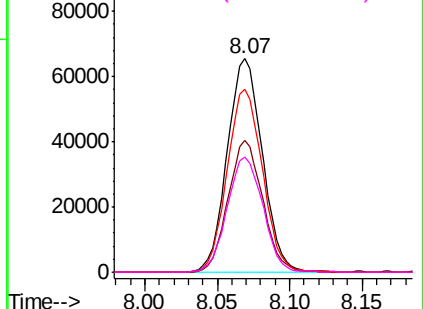
Abundance

Ion 97.00 (96.70 to 97.70): VU026387.D (-2314) (-)

Ion 99.00 (98.70 to 99.70): VU026387.D (-2314) (-)

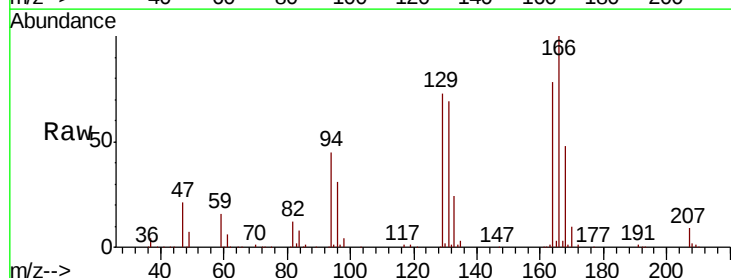
Ion 83.00 (82.70 to 83.70): VU026387.D (-2314) (-)

Ion 85.00 (84.70 to 85.70): VU026387.D (-2314) (-)



#46
 Tetrachloroethene
 Concen: 48.068 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

Tgt Ion:	164	Resp:	96823
Ion	Ratio	Lower	Upper
164	100		
129	94.2	67.5	125.4
131	89.0	64.5	119.9
166	128.6	91.7	170.3



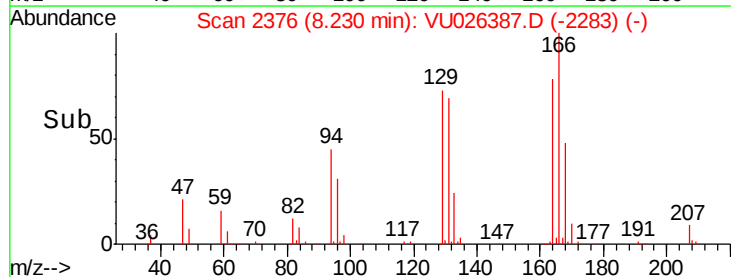
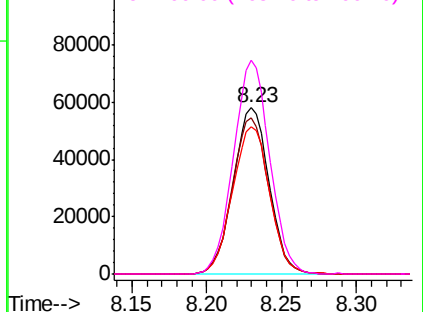
Abundance

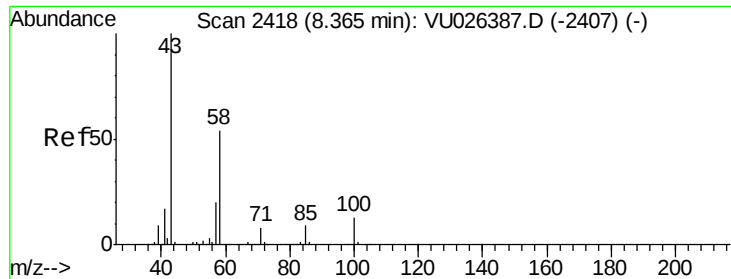
Ion 164.00 (163.70 to 164.70): VU026387.D (-2363) (-)

Ion 129.00 (128.70 to 129.70): VU026387.D (-2363) (-)

Ion 131.00 (130.70 to 131.70): VU026387.D (-2363) (-)

Ion 166.00 (165.70 to 166.70): VU026387.D (-2363) (-)

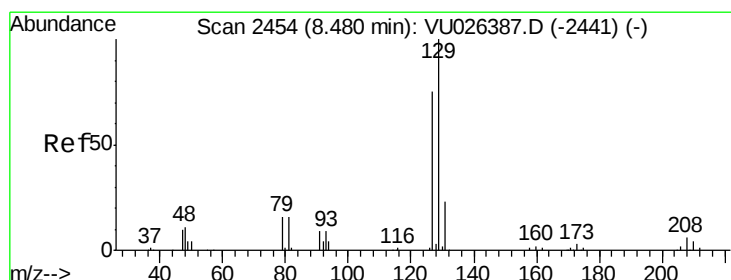
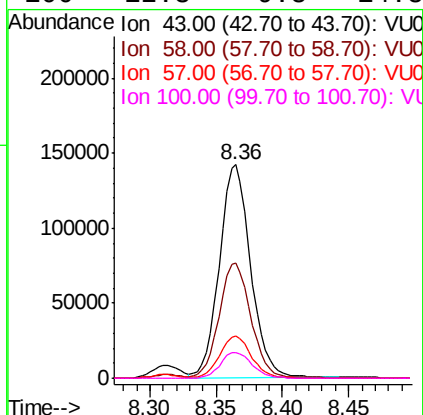
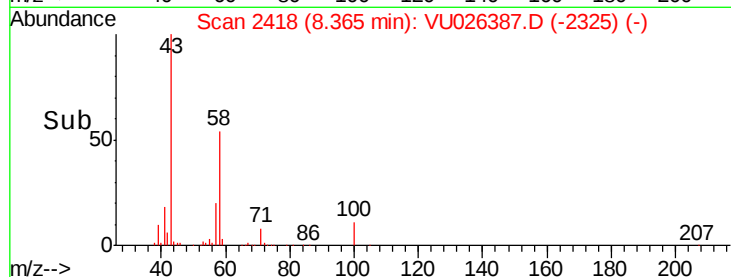
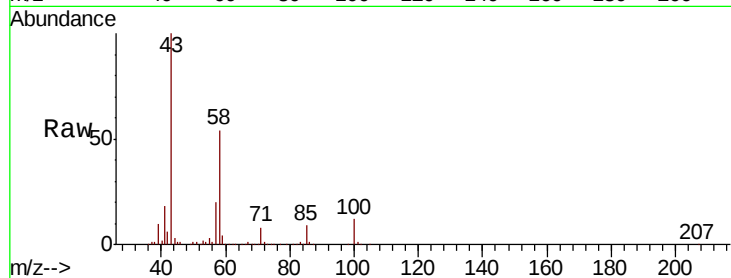




#48
2-Hexanone
Concen: 94.038 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU026387.D
Acq: 27 Aug 2018 10:12

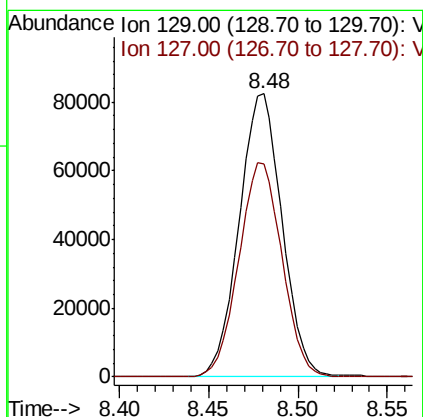
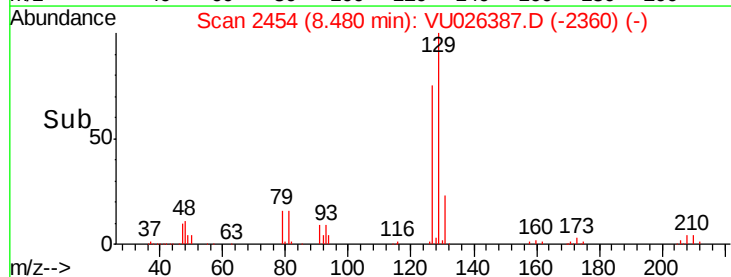
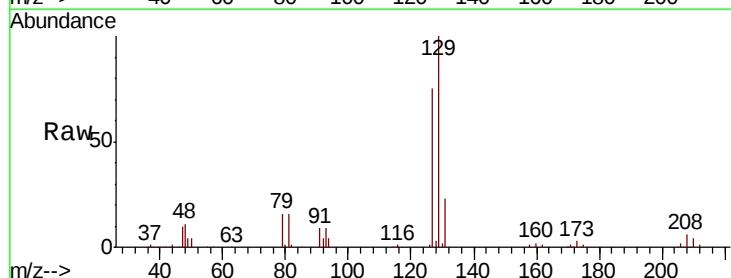
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

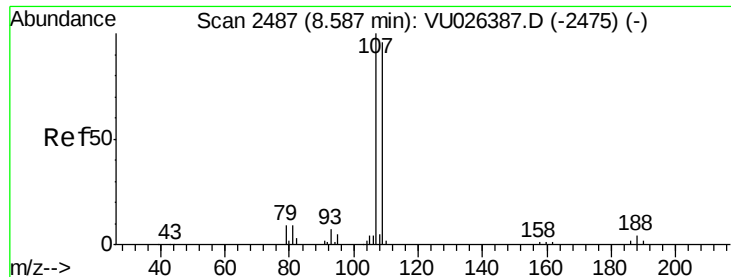
Tgt Ion: 43 Resp: 232062
Ion Ratio Lower Upper
43 100
58 55.2 43.8 65.8
57 20.0 15.5 23.3
100 12.3 9.8 14.8



#49
Dibromochloromethane
Concen: 49.281 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU026387.D
Acq: 27 Aug 2018 10:12

Tgt Ion: 129 Resp: 138425
Ion Ratio Lower Upper
129 100
127 75.4 53.4 99.2

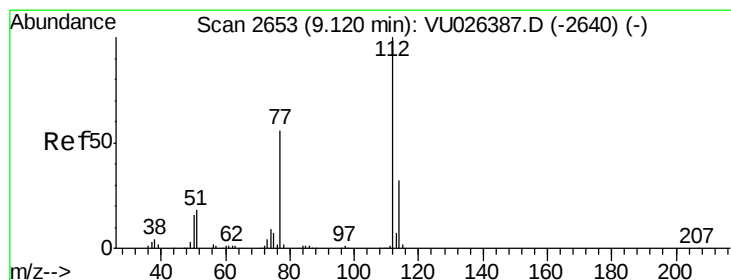
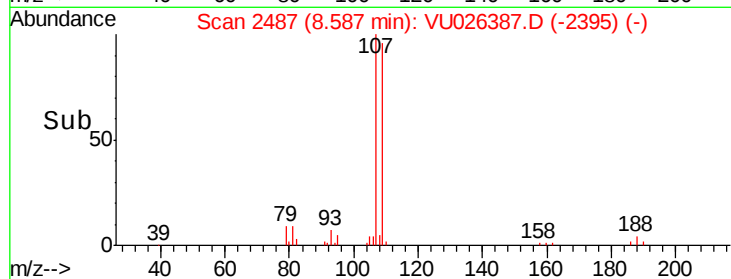
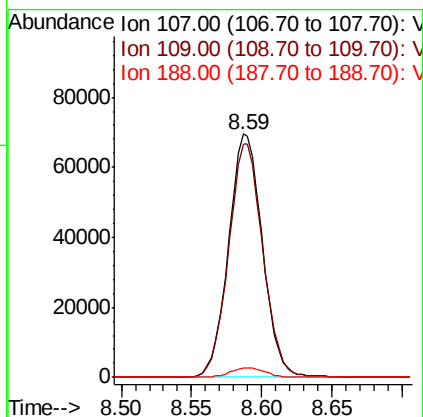
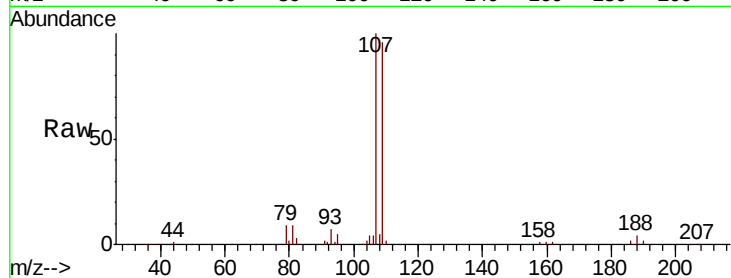




#50
 1,2-Dibromoethane
 Concen: 46.392 ug/L
 RT: 8.59 min Scan# 2487
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

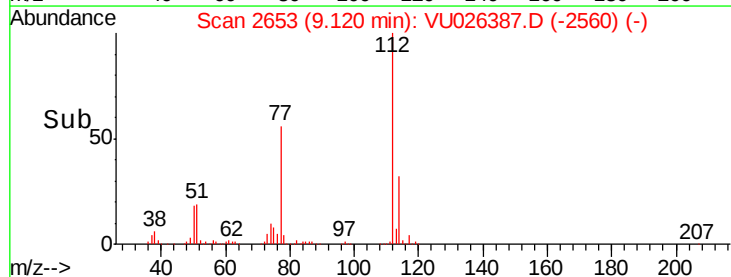
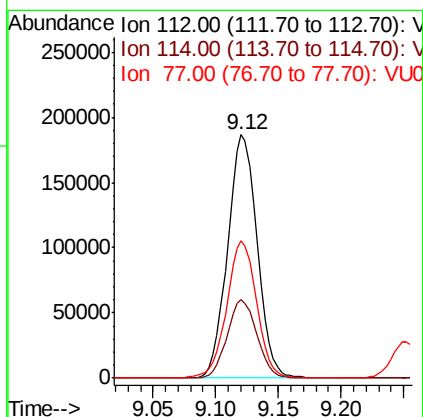
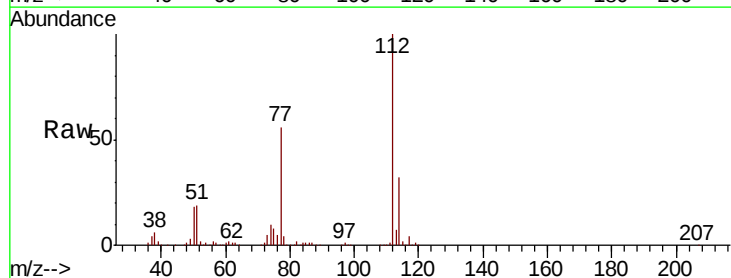
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

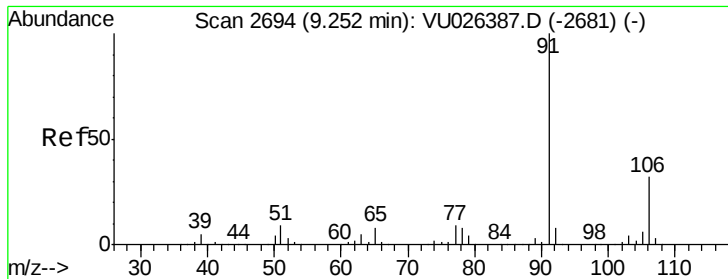
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.8	66.6	123.8
188	3.7	3.0	4.6



#51
 Chlorobenzene
 Concen: 47.445 ug/L
 RT: 9.12 min Scan# 2653
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.7	42.1
77	56.3	44.6	66.8





#52

Ethylbenzene

Concen: 48.415 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Instrument :

MSVOA_U

ClientSampleId :

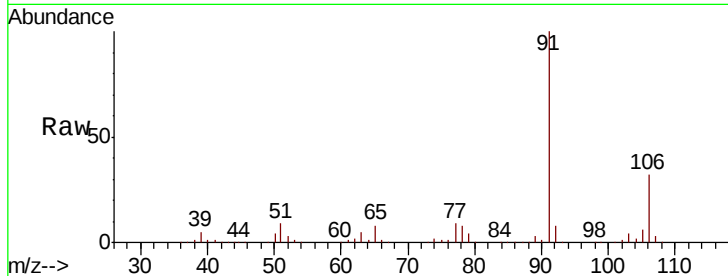
VSTD05057

Tgt Ion: 91 Resp: 496734

Ion Ratio Lower Upper

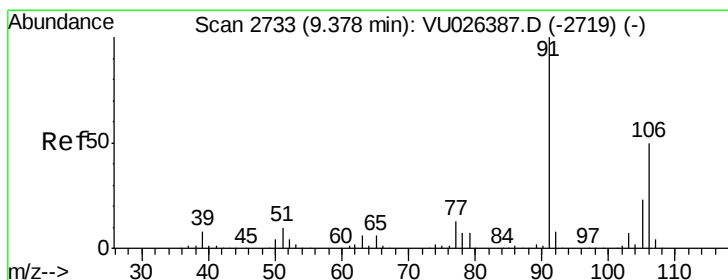
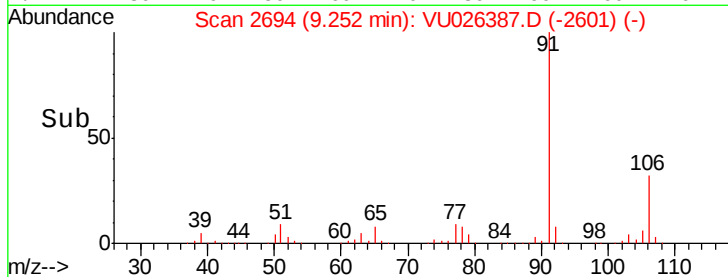
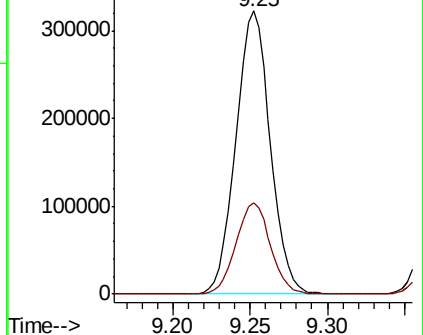
91 100

106 32.3 22.2 41.2



Abundance Ion 91.00 (90.70 to 91.70): VU026387.D (-2681) (-)

Ion 106.00 (105.70 to 106.70): VU026387.D (-2681) (-)



#53

m,p-Xylene

Concen: 49.866 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU026387.D

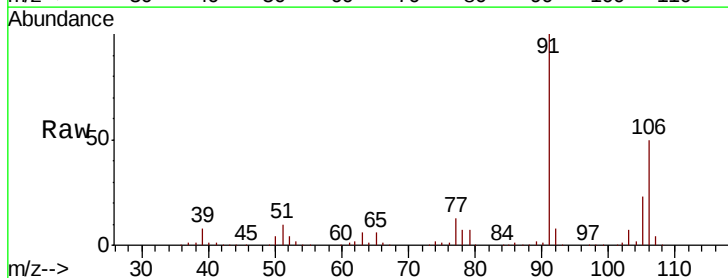
Acq: 27 Aug 2018 10:12

Tgt Ion: 106 Resp: 197749

Ion Ratio Lower Upper

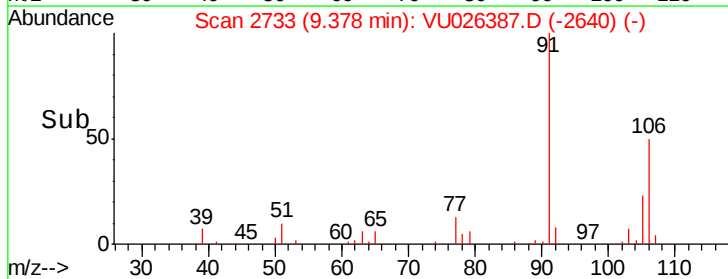
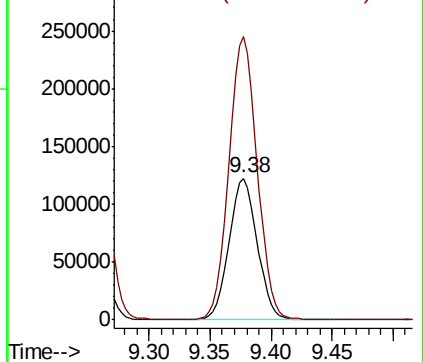
106 100

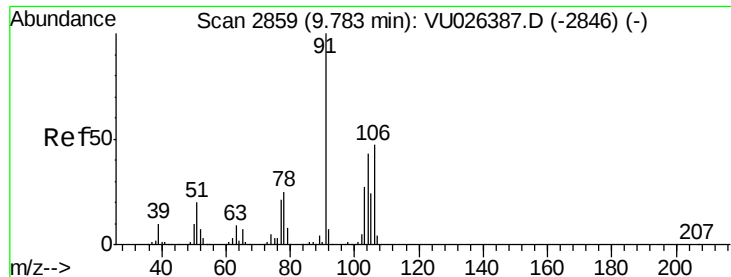
91 199.9 140.4 260.8



Abundance Ion 106.00 (105.70 to 106.70): VU026387.D (-2719) (-)

Ion 91.00 (90.70 to 91.70): VU026387.D (-2719) (-)

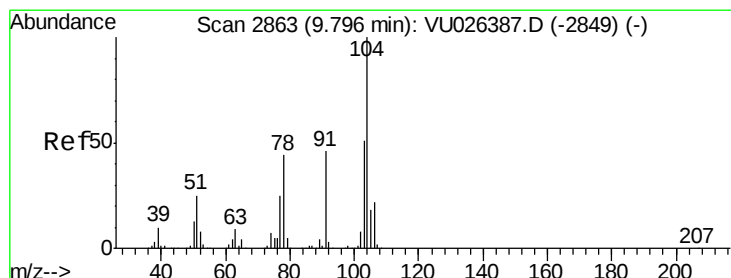
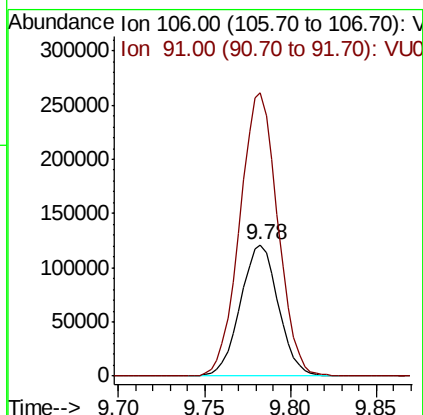
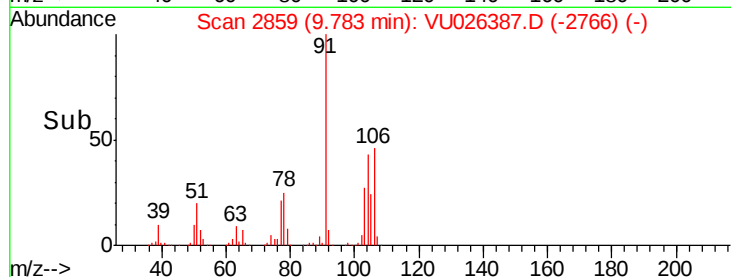
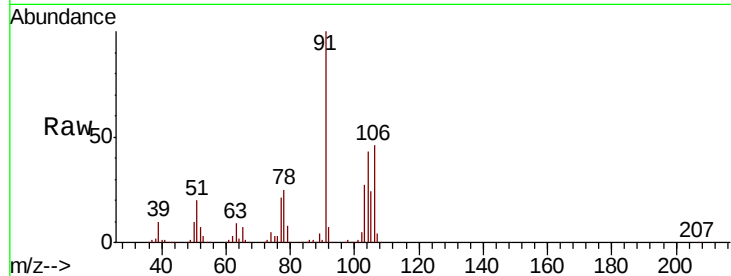




#54
o-xylene
Concen: 48.000 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU026387.D
Acq: 27 Aug 2018 10:12

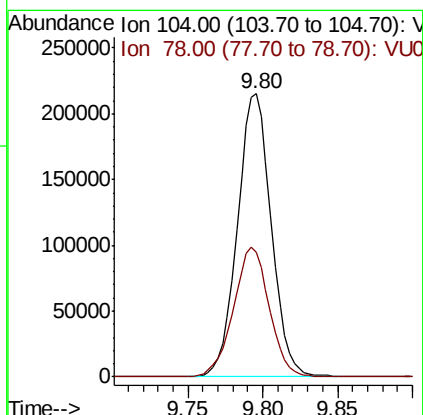
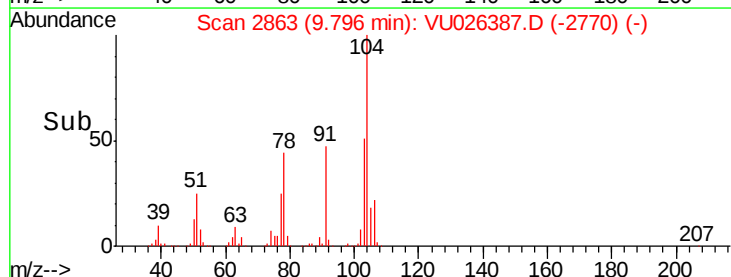
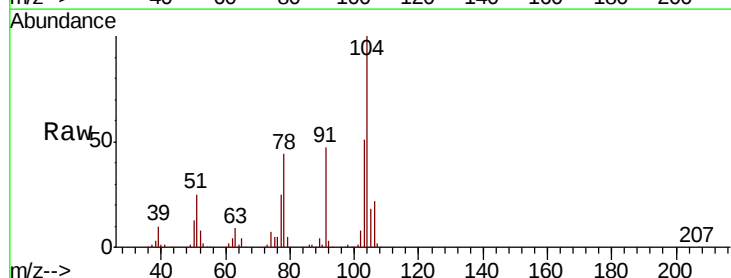
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

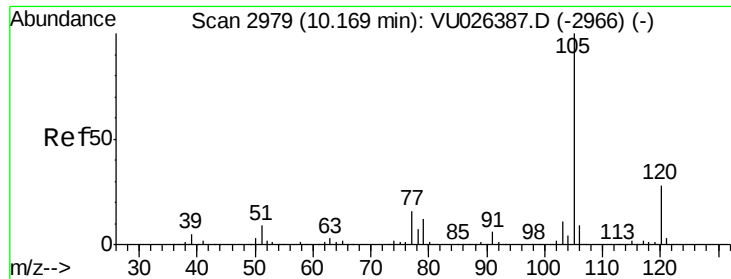
Tgt Ion:106 Resp: 185667
Ion Ratio Lower Upper
106 100
91 215.1 146.9 272.9



#55
Styrene
Concen: 51.293 ug/L
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU026387.D
Acq: 27 Aug 2018 10:12

Tgt Ion:104 Resp: 338672
Ion Ratio Lower Upper
104 100
78 44.2 32.1 59.7





#56

Isopropylbenzene

Concen: 49.763 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

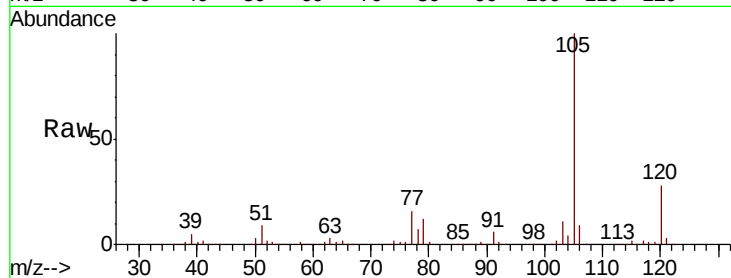
Tgt Ion: 105 Resp: 499350

Ion Ratio Lower Upper

105 100

120 27.1 21.5 32.3

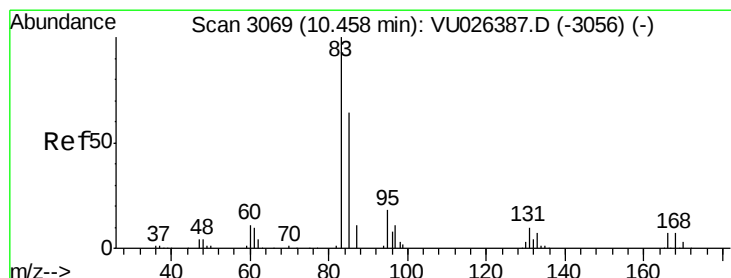
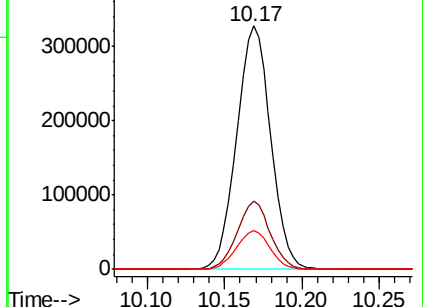
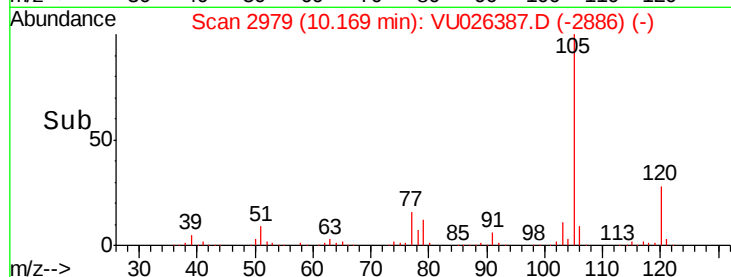
77 16.0 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 46.158 ug/L

RT: 10.46 min Scan# 3069

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

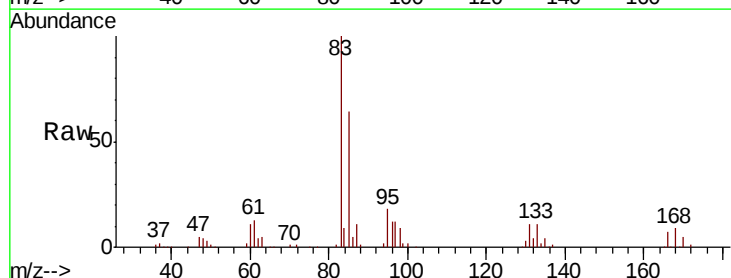
Tgt Ion: 83 Resp: 178548

Ion Ratio Lower Upper

83 100

85 64.1 45.2 84.0

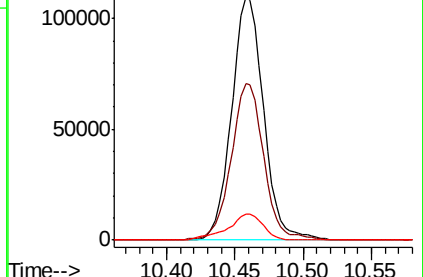
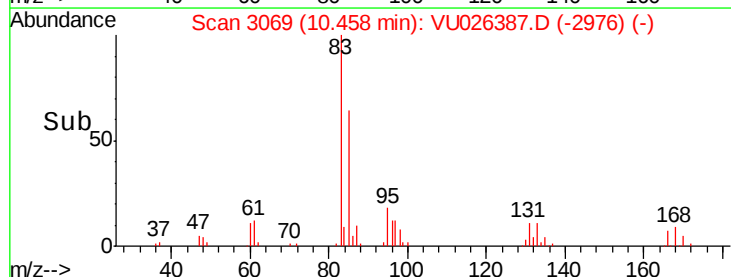
131 10.8 8.8 13.2

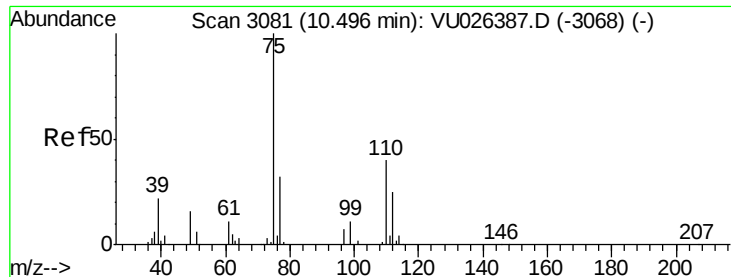


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 45.038 ug/L

RT: 10.50 min Scan# 3081

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Instrument :

MSVOA_U

ClientSampleId :

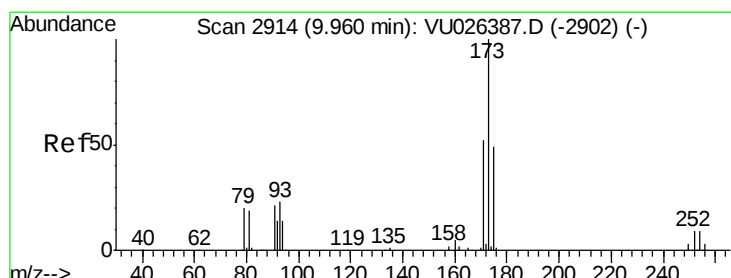
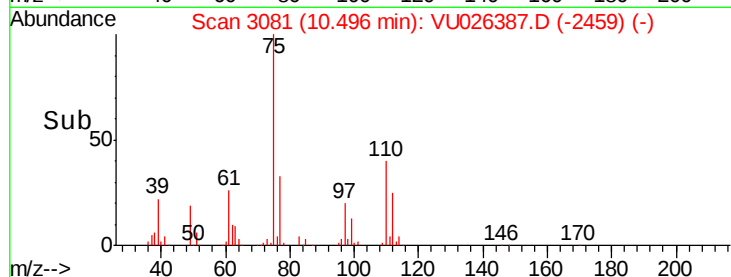
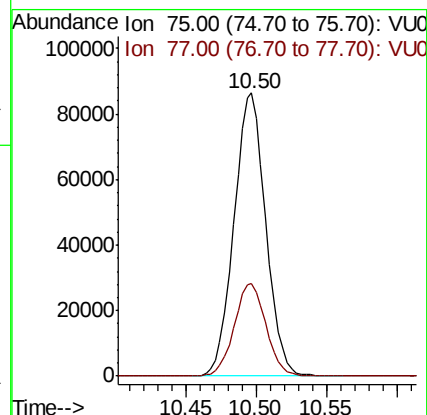
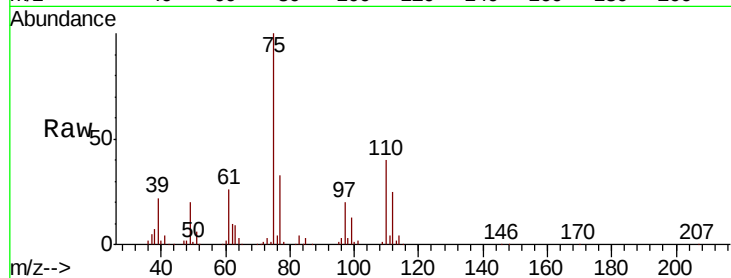
VSTD05057

Tgt Ion: 75 Resp: 135846

Ion Ratio Lower Upper

75 100

77 32.9 25.6 38.4



#61

Bromoform

Concen: 47.586 ug/L

RT: 9.96 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

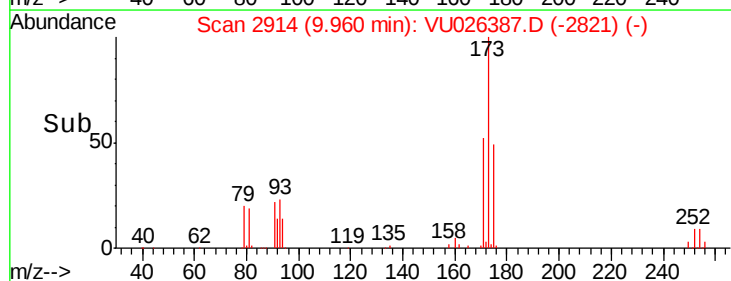
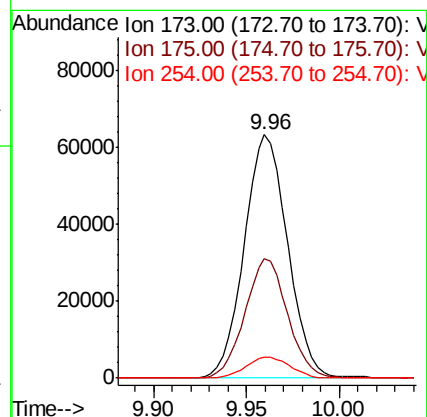
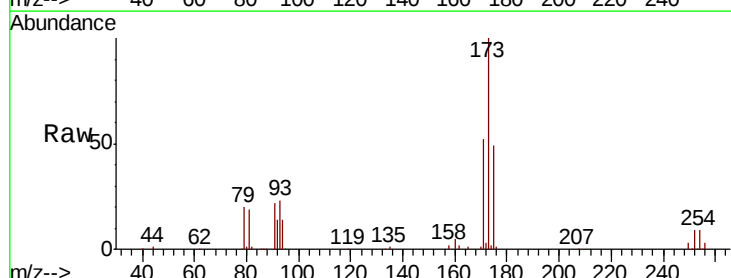
Tgt Ion: 173 Resp: 103249

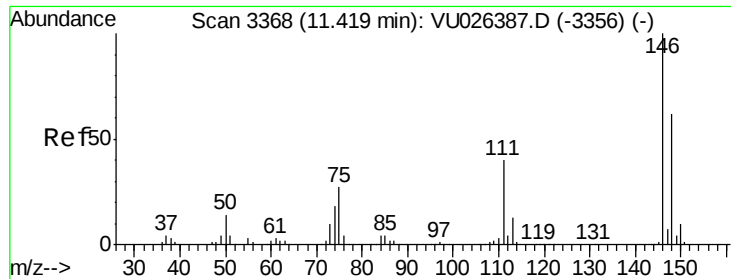
Ion Ratio Lower Upper

173 100

175 48.1 37.9 56.9

254 8.7 6.9 10.3

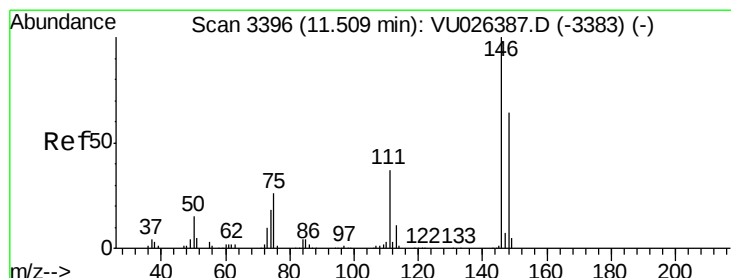
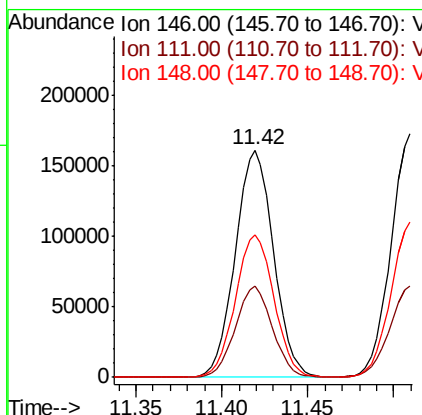
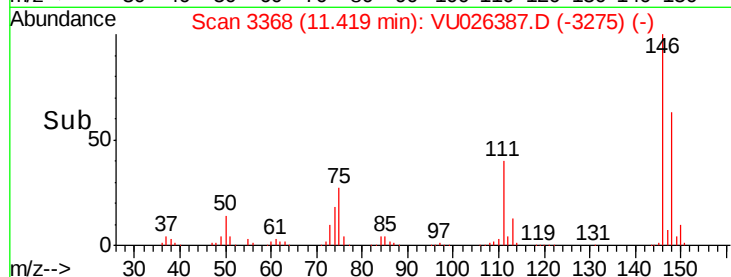
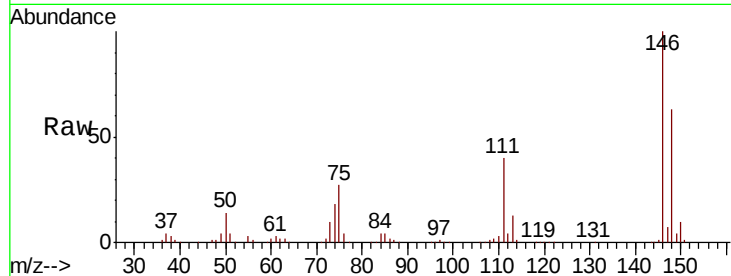




#62
 1,3-Dichlorobenzene
 Concen: 48.293 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

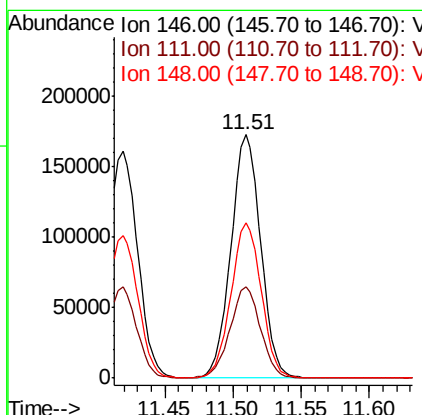
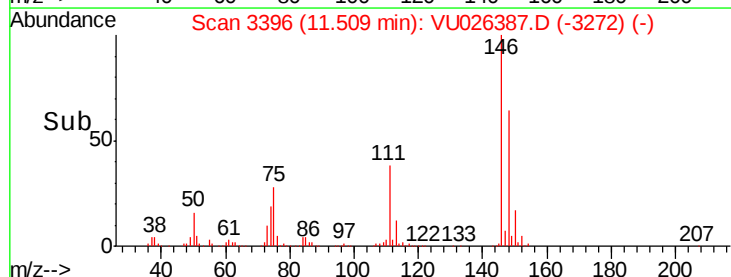
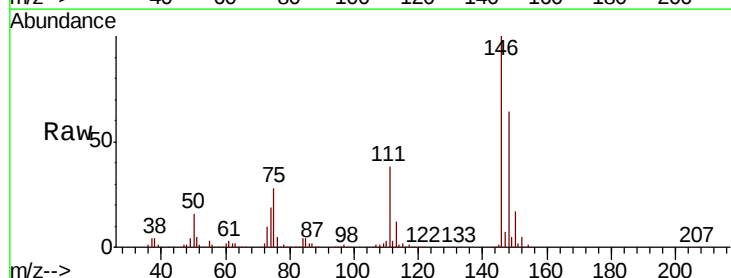
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

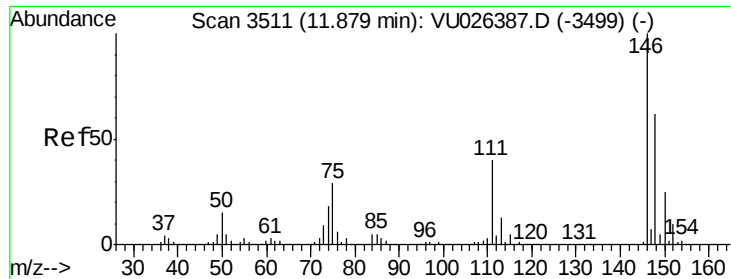
Tgt Ion:146 Resp: 249340
 Ion Ratio Lower Upper
 146 100
 111 39.9 27.2 50.4
 148 62.6 44.3 82.3



#63
 1,4-Dichlorobenzene
 Concen: 47.915 ug/L
 RT: 11.51 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

Tgt Ion:146 Resp: 261396
 Ion Ratio Lower Upper
 146 100
 111 37.6 26.1 48.5
 148 63.6 46.8 86.8

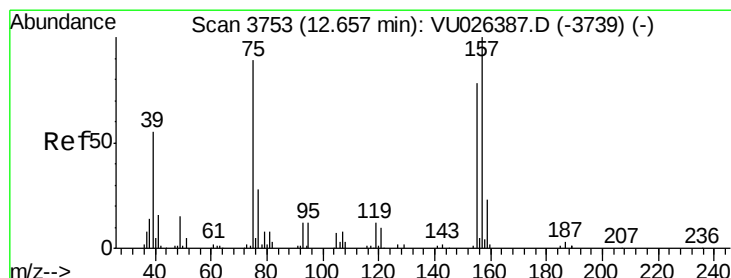
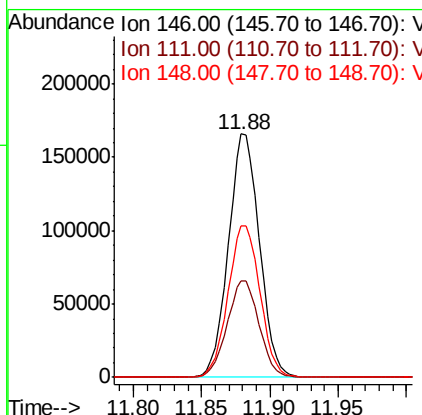
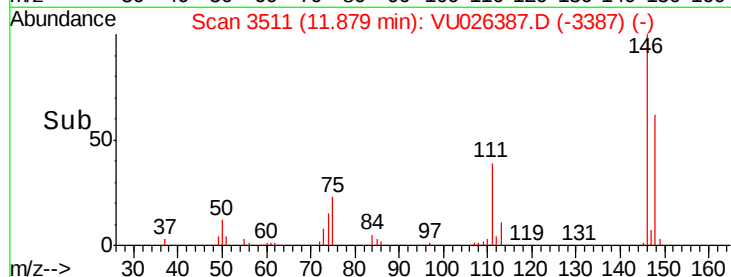
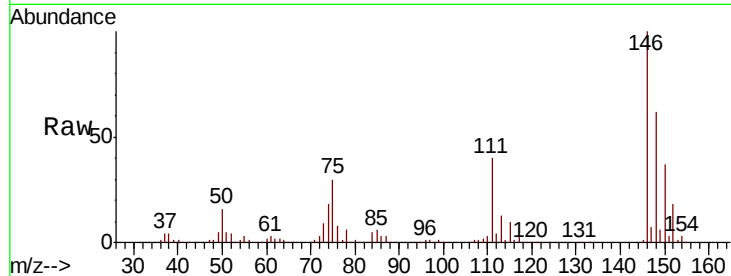




#65
 1,2-Dichlorobenzene
 Concen: 48.424 ug/L
 RT: 11.88 min Scan# 3511
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

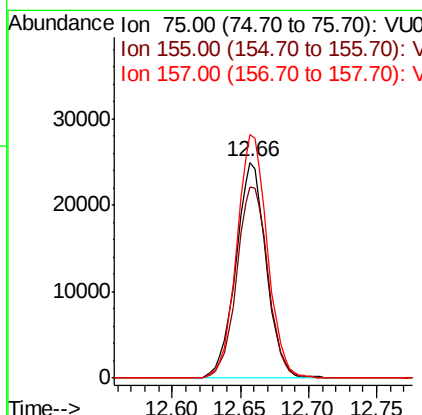
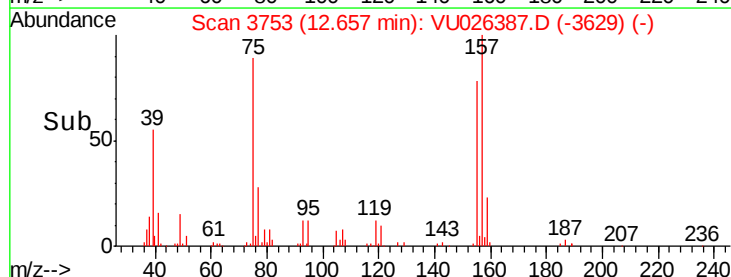
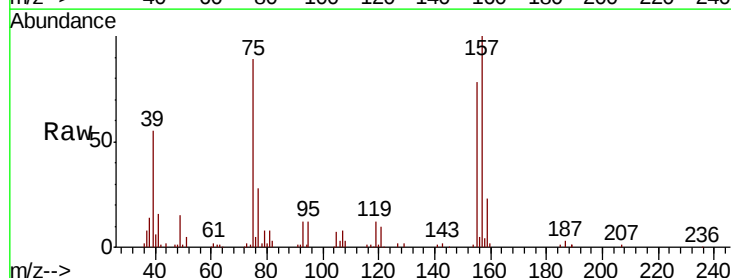
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

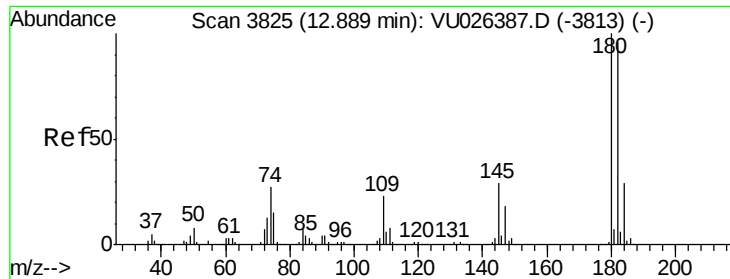
Tgt Ion: 146 Resp: 262966
 Ion Ratio Lower Upper
 146 100
 111 39.7 33.1 49.7
 148 62.4 51.5 77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 42.512 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

Tgt Ion: 75 Resp: 38567
 Ion Ratio Lower Upper
 75 100
 155 88.5 69.6 104.4
 157 113.0 90.3 135.5

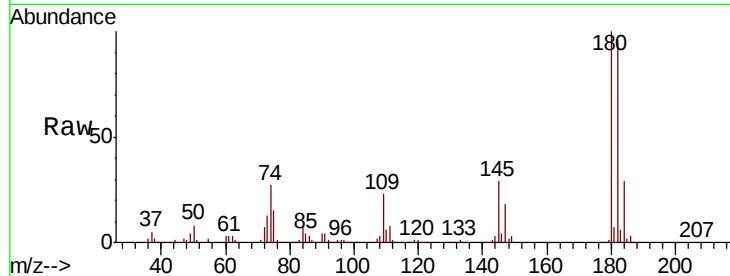




#67
 1,3,5-Trichlorobenzene
 Concen: 50.701 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.8	113.8
184	29.4	24.6	37.0
145	29.2	23.4	35.2



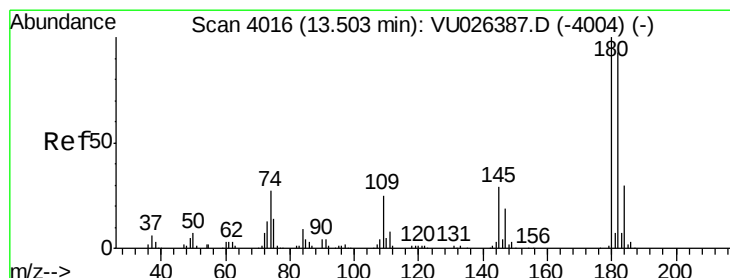
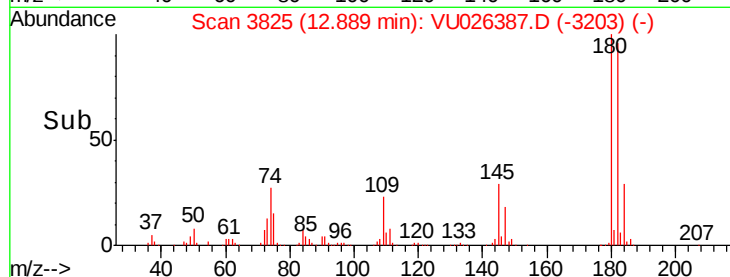
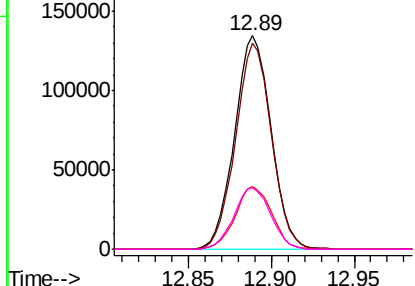
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

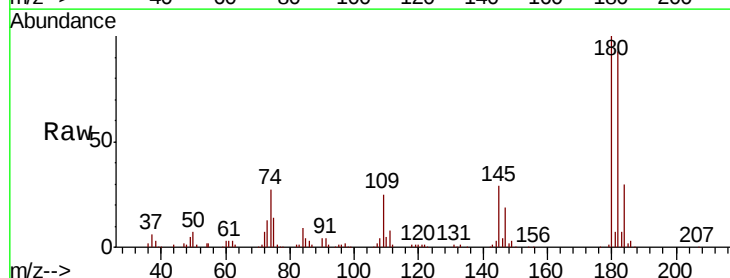
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 49.995 ug/L
 RT: 13.50 min Scan# 4016
 Delta R.T. -0.00 min
 Lab File: VU026387.D
 Acq: 27 Aug 2018 10:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.3	114.5
145	29.5	24.0	36.0

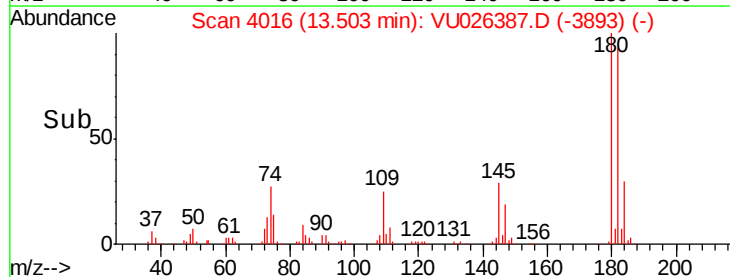
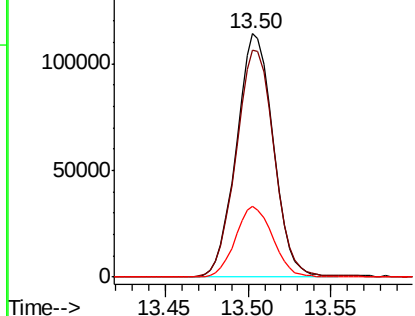


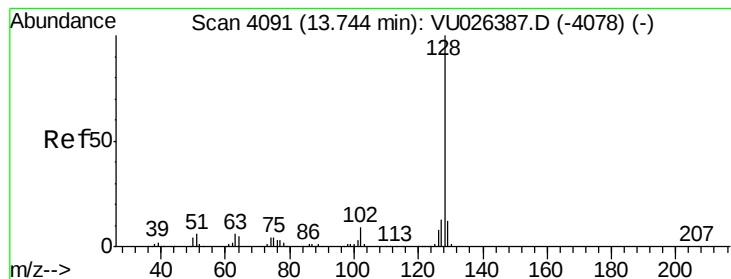
Abundance

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





#69

Naphthalene

Concen: 48.411 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

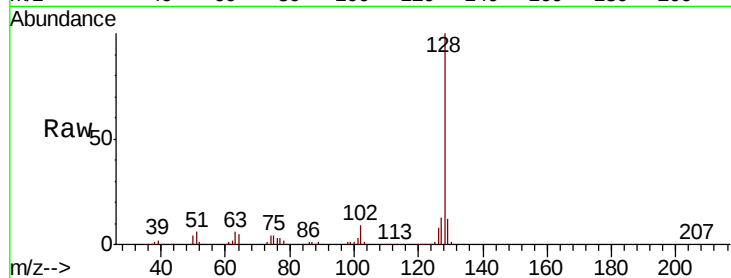
Tgt Ion:128 Resp: 510241

Ion Ratio Lower Upper

128 100

127 13.0 10.6 16.0

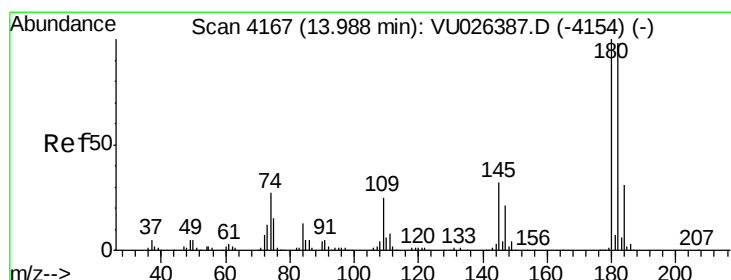
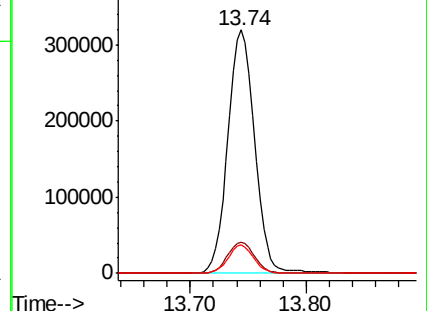
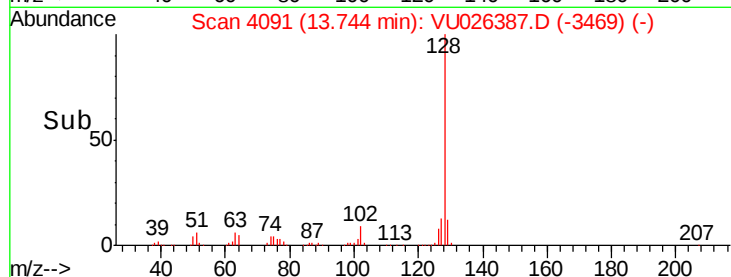
129 11.0 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 49.792 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. -0.00 min

Lab File: VU026387.D

Acq: 27 Aug 2018 10:12

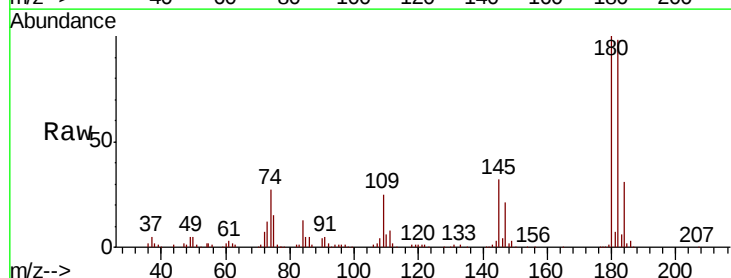
Tgt Ion:180 Resp: 187687

Ion Ratio Lower Upper

180 100

182 96.7 76.7 115.1

145 31.9 25.0 37.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

