

Data File : VU033060.D
Acq On : 27 Jun 2019 12:35
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

Quant Time: Jun 28 02:43:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061719WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Jun 26 09:05:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	189325	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	190245	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	99655	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	48717	37.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	75.30%
7) Chloroethane-d5	1.67	69	44281	42.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.82%
11) 1,1-Dichloroethene-d2	2.27	63	116064	44.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.06%
21) 2-Butanone-d5	4.17	46	115922	107.64	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.64%
24) Chloroform-d	4.64	84	126117	50.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.28%
26) 1,2-Dichloroethane-d4	5.30	65	85329	50.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.86%
32) Benzene-d6	5.33	84	225506	45.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.94%
36) 1,2-Dichloropropane-d6	6.32	67	75231	47.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.24%
41) Toluene-d8	7.56	98	211662	45.57	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.14%
43) trans-1,3-Dichloropropene-	7.84	79	38135	46.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.80%
47) 2-Hexanone-d5	8.31	63	70085	95.01	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.01%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	118449	48.50	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.00%
64) 1,2-Dichlorobenzene-d4	11.85	152	92729	48.08	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.16%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	98236	51.368 ug/L	100
3) Chloromethane	1.32	50	85681	49.432 ug/L	99
5) Vinyl chloride	1.40	62	87046	50.631 ug/L	99
6) Bromomethane	1.62	94	50022	49.446 ug/L	100
8) Chloroethane	1.69	64	51064	51.598 ug/L	99
9) Trichlorofluoromethane	1.88	101	126219	52.330 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	66830	52.824 ug/L	98
12) 1,1-Dichloroethene	2.28	96	59131	49.597 ug/L	89
13) Acetone	2.32	43	143670	96.587 ug/L	97
14) Carbon disulfide	2.47	76	178849	47.408 ug/L	99
15) Methyl Acetate	2.61	43	90489	53.667 ug/L	97
16) Methylene chloride	2.69	84	71723	51.268 ug/L	96
17) trans-1,2-Dichloroethene	2.97	96	64850	50.159 ug/L	97
18) Methyl tert-butyl Ether	2.99	73	216233	52.092 ug/L	98
19) 1,1-Dichloroethane	3.44	63	131358	53.293 ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	73056	51.870 ug/L	99
22) 2-Butanone	4.25	43	157216	101.974 ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	39092	53.204	ug/L	95
25) Chloroform	4.66	83	137823	54.222	ug/L	99
27) 1,2-Dichloroethane	5.40	62	116226	55.660	ug/L	100
29) Cyclohexane	4.99	56	110747	49.855	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	120705	52.077	ug/L	99
31) Carbon tetrachloride	5.13	117	107970	51.196	ug/L	99
33) Benzene	5.38	78	279708	51.037	ug/L	100
34) Trichloroethene	6.18	95	74834	51.105	ug/L	97
35) Methylcyclohexane	6.41	83	115956	51.230	ug/L	98
37) 1,2-Dichloropropane	6.42	63	77803	51.754	ug/L	99
38) Bromodichloromethane	6.75	83	104632	51.761	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	122470	52.290	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	257111	107.124	ug/L	98
42) Toluene	7.63	91	305372	51.499	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	113759	51.712	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	73071	52.222	ug/L	99
46) Tetrachloroethene	8.22	164	61142	50.957	ug/L	98
48) 2-Hexanone	8.36	43	219731	103.762	ug/L	98
49) Dibromochloromethane	8.47	129	85309	50.573	ug/L	97
50) 1,2-Dibromoethane	8.58	107	79316	51.042	ug/L	99
51) Chlorobenzene	9.11	112	198795	50.947	ug/L	97
52) Ethylbenzene	9.24	91	340972	51.950	ug/L	99
53) m,p-Xylene	9.37	106	128701	51.972	ug/L	98
54) o-xylene	9.77	106	126579	52.341	ug/L	99
55) Styrene	9.79	104	217513	51.846	ug/L	96
56) Isopropylbenzene	10.16	105	336372	51.612	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	127379	50.309	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	101174	50.429	ug/L	98
61) Bromoform	9.95	173	66578	51.164	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	158800	51.265	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	165101	51.603	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	162191	51.281	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	29636	49.114	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	127857	51.371	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	108713	50.762	ug/L	99
69) Naphthalene	13.74	128	301326	45.761	ug/L	98
70) 1,2,3-Trichlorobenzene	13.98	180	113377	50.008	ug/L	99

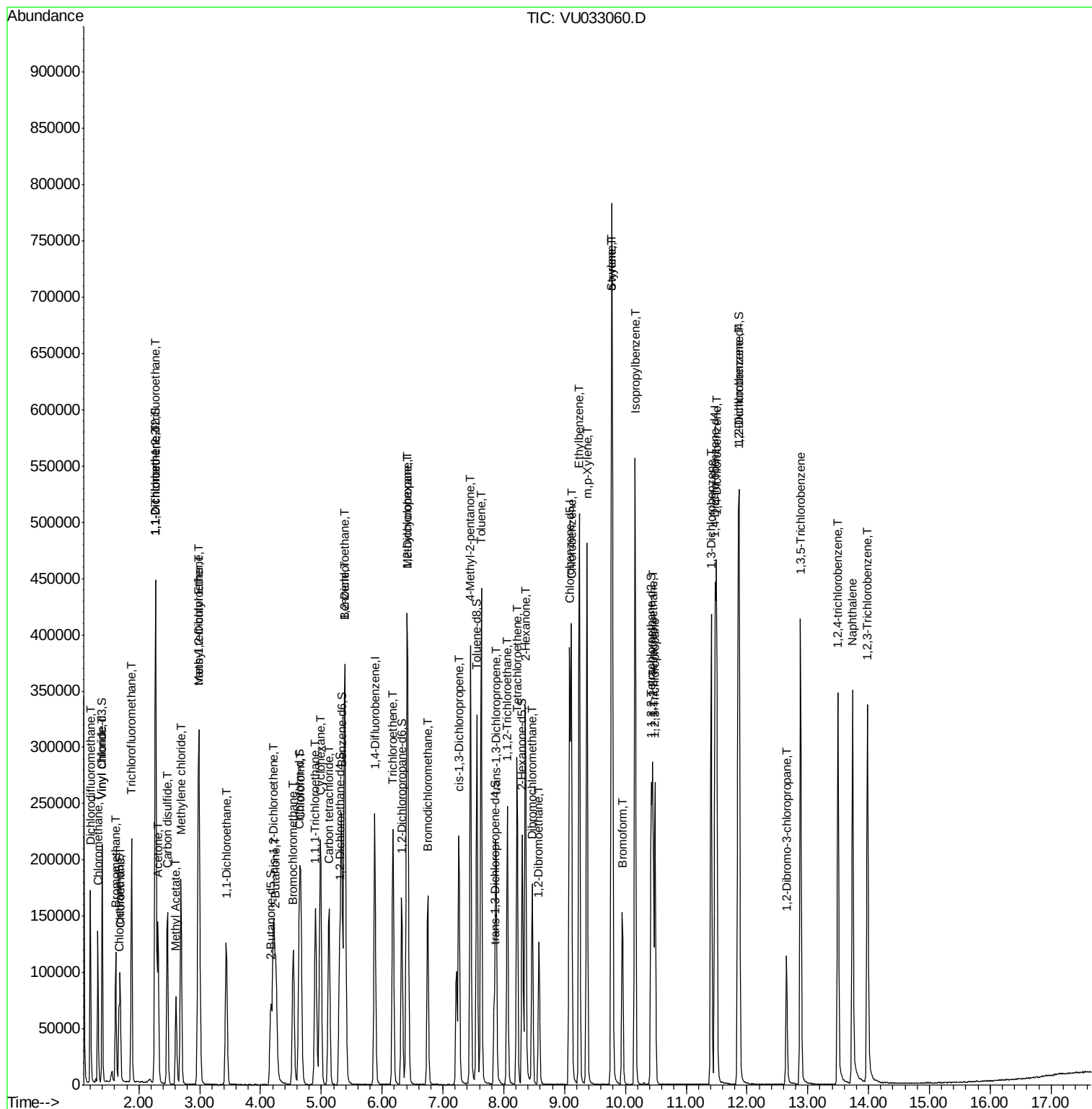
(#) = qualifier out of range (m) = manual integration (+) = signals summed

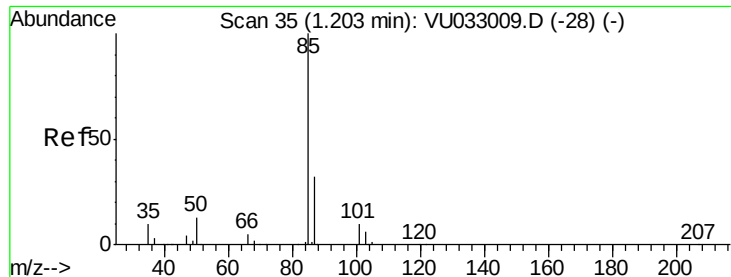
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```
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#2

Dichlorodifluoromethane

Concen: 51.368 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

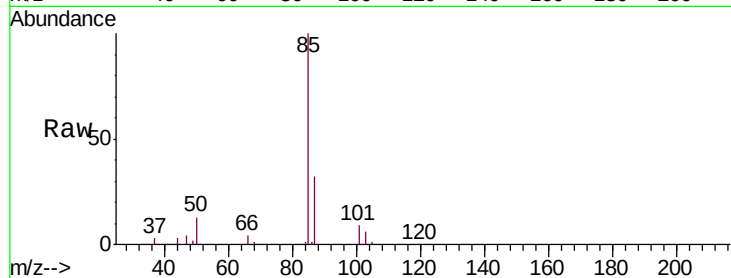
VSTD05041

Tgt Ion: 85 Resp: 98236

Ion Ratio Lower Upper

85 100

87 32.3 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU033009.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU033009.D (-28) (-)

1.20

100000

80000

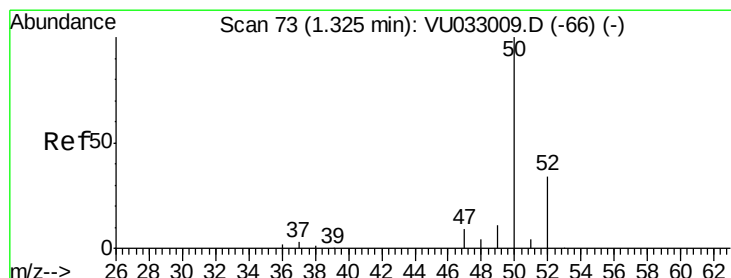
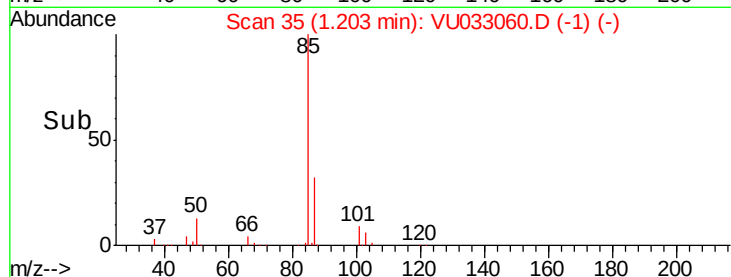
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 49.432 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU033060.D

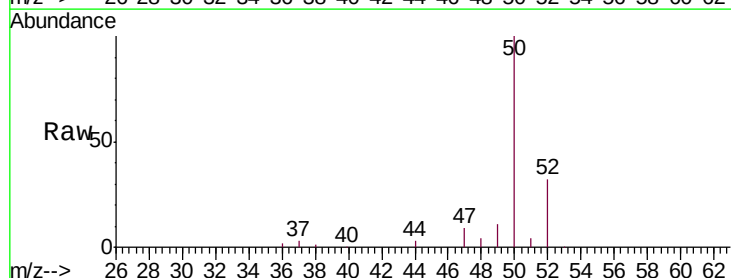
Acq: 27 Jun 2019 12:35

Tgt Ion: 50 Resp: 85681

Ion Ratio Lower Upper

50 100

52 32.3 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU033009.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU033009.D (-66) (-)

1.32

80000

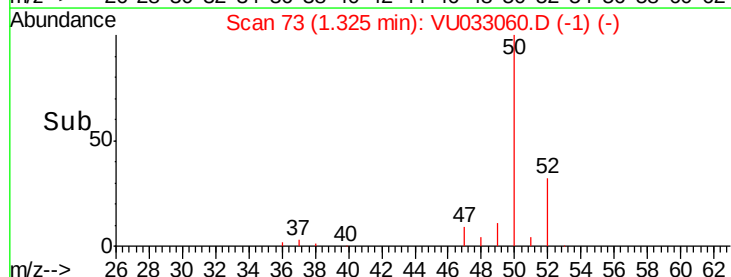
60000

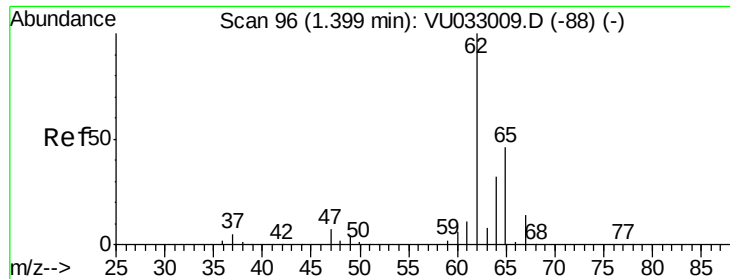
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 50.631 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

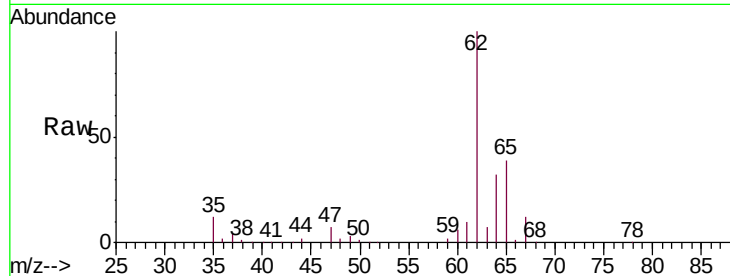
VSTD05041

Tgt Ion: 62 Resp: 87046

Ion Ratio Lower Upper

62 100

64 32.1 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU033009.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU033009.D (-88) (-)

100000

80000

60000

40000

20000

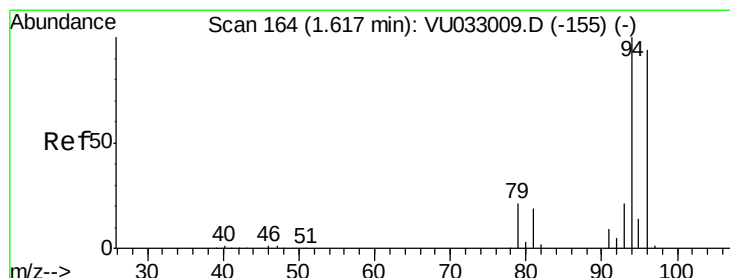
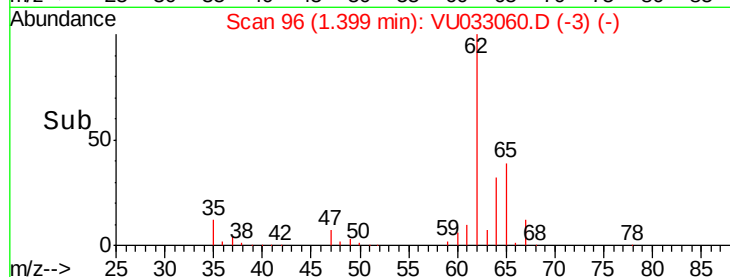
0

1.35

1.40

1.45

Time-->



#6

Bromomethane

Concen: 49.446 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033060.D

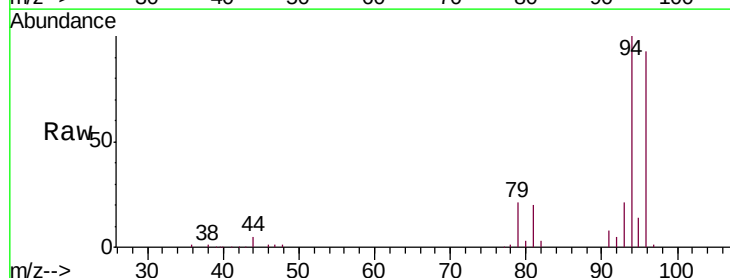
Acq: 27 Jun 2019 12:35

Tgt Ion: 94 Resp: 50022

Ion Ratio Lower Upper

94 100

96 92.7 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU033009.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033009.D (-155) (-)

40000

30000

20000

10000

0

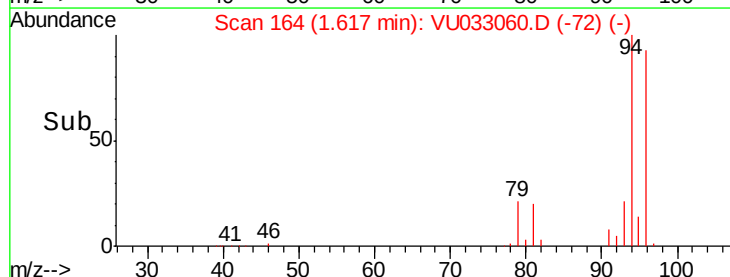
1.55

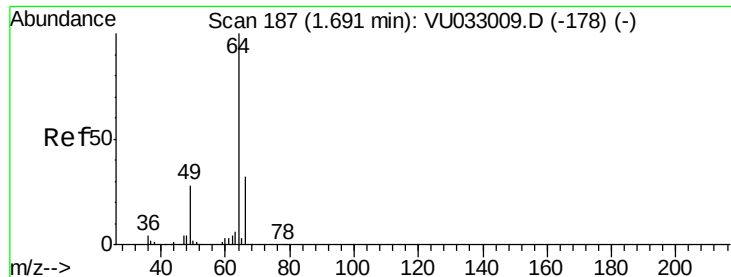
1.60

1.65

1.70

Time-->





#8

Chloroethane

Concen: 51.598 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

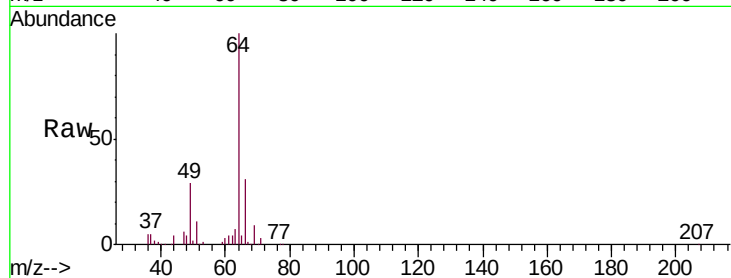
VSTD05041

Tgt Ion: 64 Resp: 51064

Ion Ratio Lower Upper

64 100

66 31.4 22.5 41.7

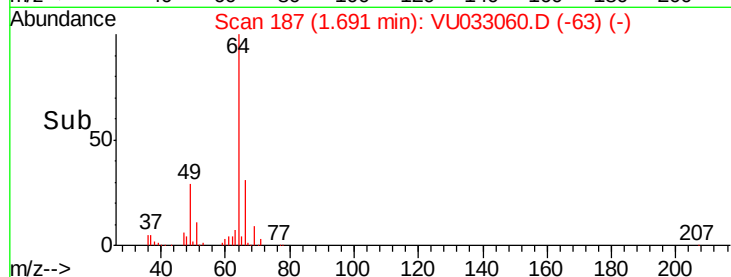


Abundance Ion 64.00 (63.70 to 64.70): VU033009.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU033009.D (-178) (-)

1.69

Time-->



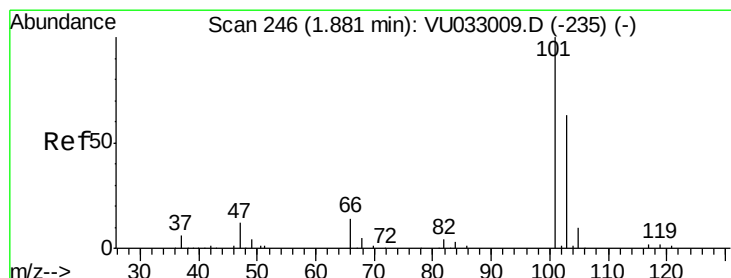
Abundance

Ion 64.00 (63.70 to 64.70): VU033060.D (-63) (-)

Ion 66.00 (65.70 to 66.70): VU033060.D (-63) (-)

1.69

Time-->



#9

Trichlorofluoromethane

Concen: 52.330 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU033060.D

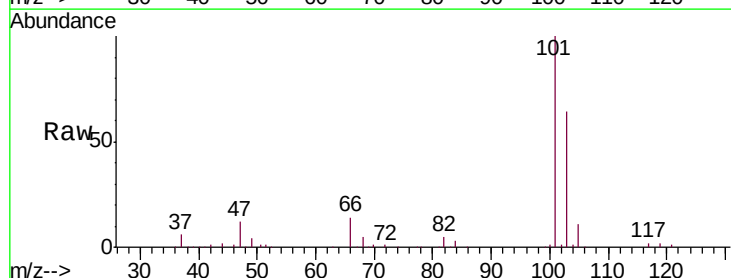
Acq: 27 Jun 2019 12:35

Tgt Ion: 101 Resp: 126219

Ion Ratio Lower Upper

101 100

103 63.7 51.3 76.9

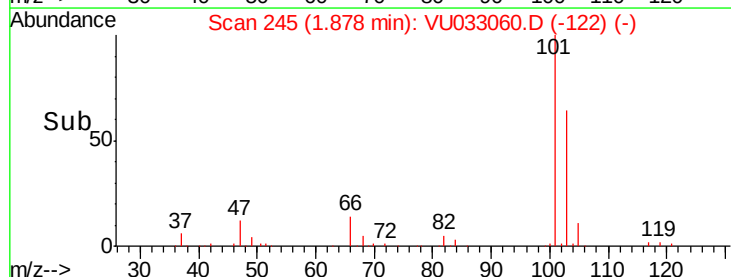


Abundance Ion 101.00 (100.70 to 101.70): VU033009.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU033009.D (-235) (-)

1.88

Time-->



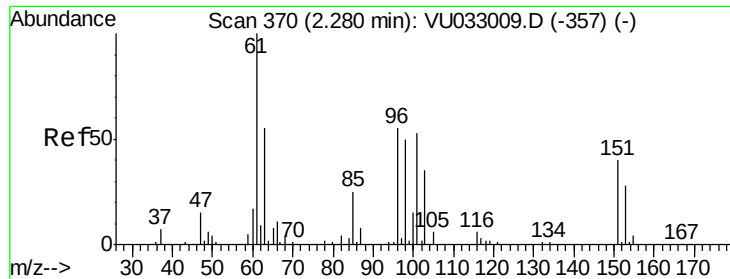
Abundance

Ion 101.00 (100.70 to 101.70): VU033060.D (-122) (-)

Ion 103.00 (102.70 to 103.70): VU033060.D (-122) (-)

1.88

Time-->



#10

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

Concen: 52.824 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

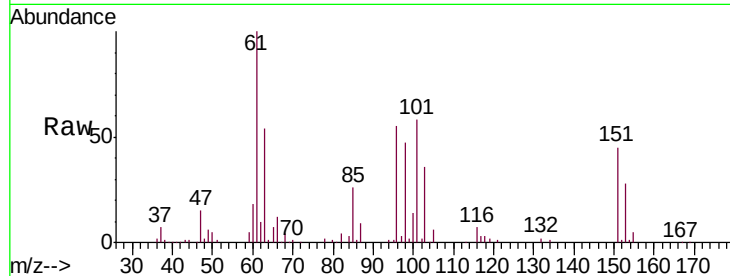
Tgt Ion: 101 Resp: 66830

Ion Ratio Lower Upper

101 100

85 45.9 36.8 55.2

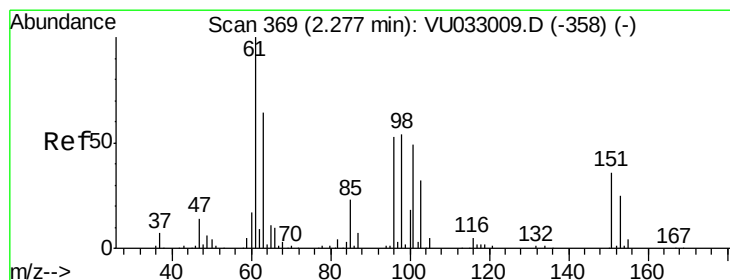
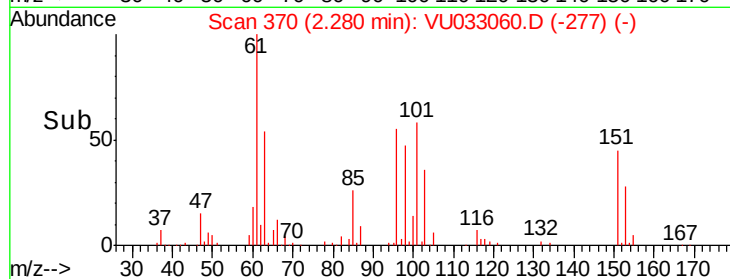
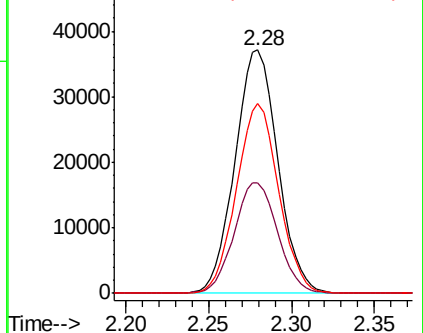
151 76.4 63.6 95.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 49.597 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

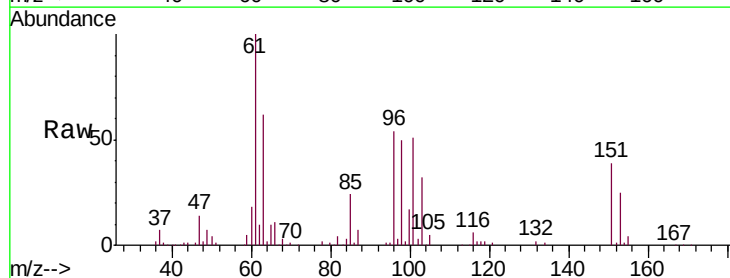
Tgt Ion: 96 Resp: 59131

Ion Ratio Lower Upper

96 100

61 186.0 131.0 243.4

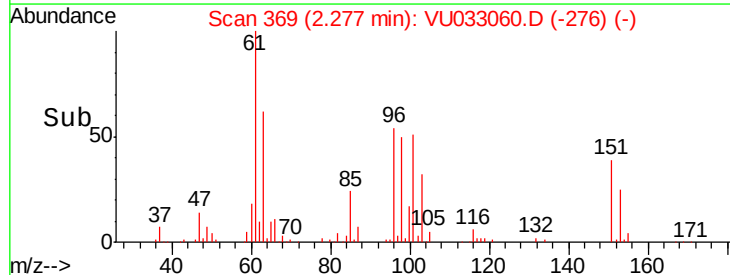
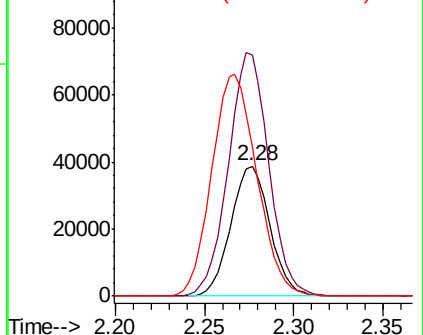
63 115.1 101.0 187.6

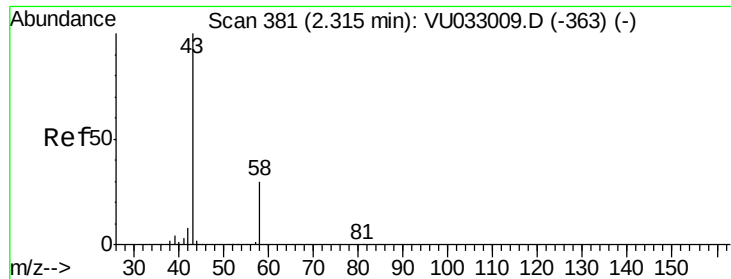


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 96.587 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

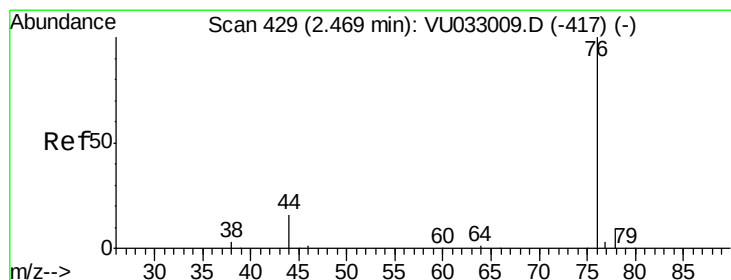
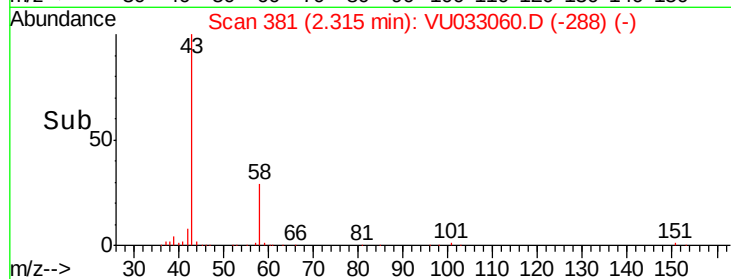
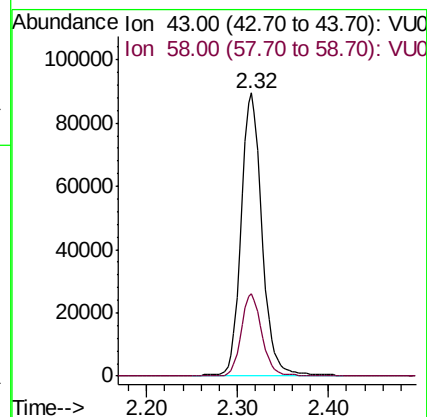
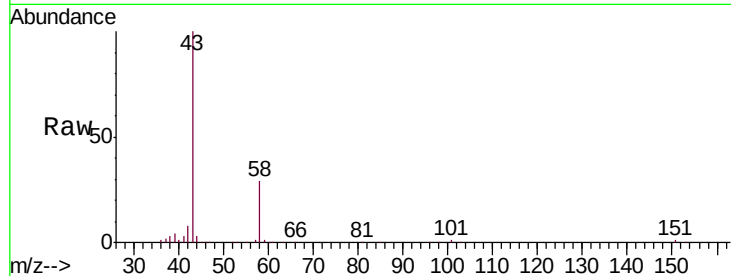
VSTD05041

Tgt Ion: 43 Resp: 143670

Ion Ratio Lower Upper

43 100

58 28.8 0.0 60.6



#14

Carbon disulfide

Concen: 47.408 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU033060.D

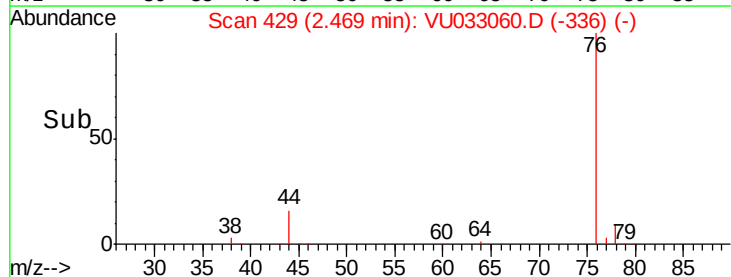
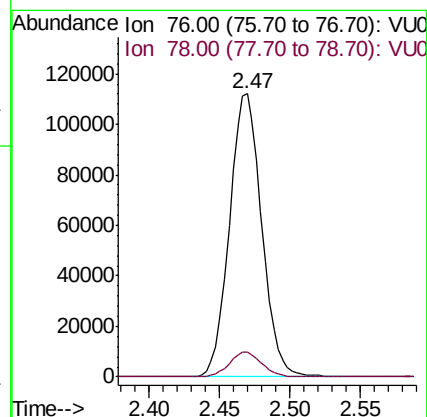
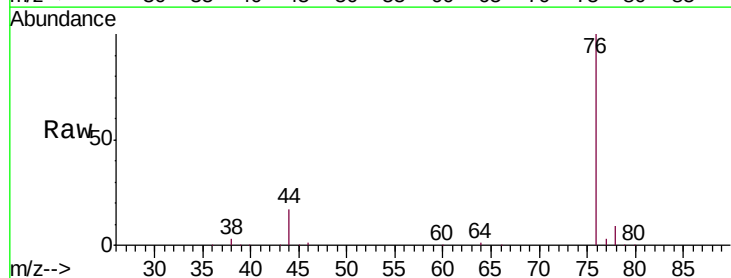
Acq: 27 Jun 2019 12:35

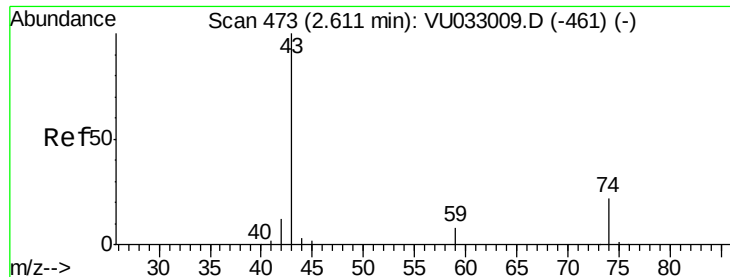
Tgt Ion: 76 Resp: 178849

Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9





#15

Methyl Acetate

Concen: 53.667 ug/L

RT: 2.61 min Scan# 472

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

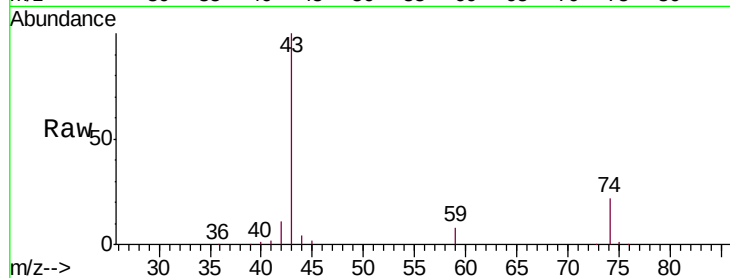
VSTD05041

Tgt Ion: 43 Resp: 90489

Ion Ratio Lower Upper

43 100

74 21.3 18.1 27.1



Abundance Ion 43.00 (42.70 to 43.70): VU033009.D (-461) (-)

Ion 74.00 (73.70 to 74.70): VU033009.D (-461) (-)

2.61

Time-->

2.55 2.60 2.65 2.70

2.61

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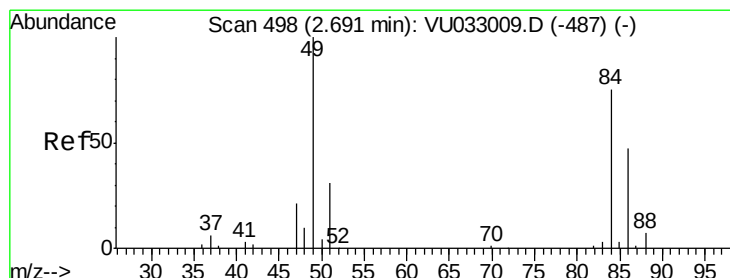
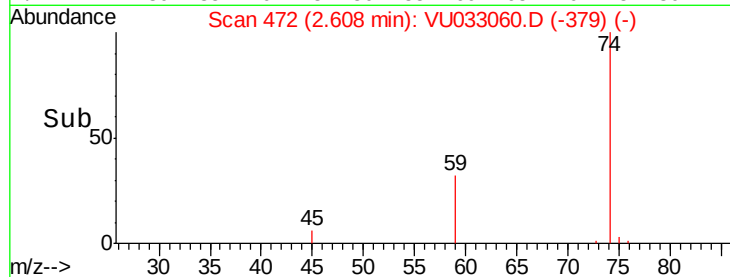
2.61

2.61

2.61

2.61

2.61



#16

Methylene chloride

Concen: 51.268 ug/L

RT: 2.69 min Scan# 498

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

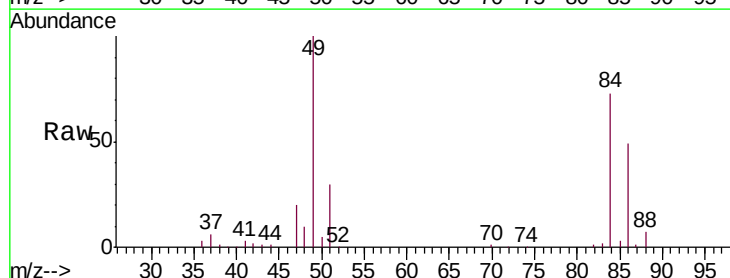
Tgt Ion: 84 Resp: 71723

Ion Ratio Lower Upper

84 100

86 67.2 45.5 84.5

49 136.4 92.1 171.1



Abundance Ion 84.00 (83.70 to 84.70): VU033009.D (-487) (-)

Ion 86.00 (85.70 to 86.70): VU033009.D (-487) (-)

Ion 49.00 (48.70 to 49.70): VU033009.D (-487) (-)

2.69

Time-->

2.65 2.70 2.75

2.69

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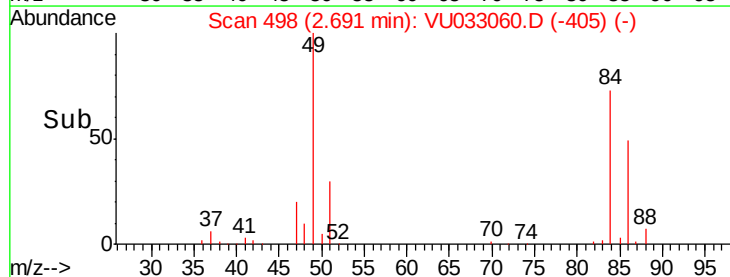
2.69

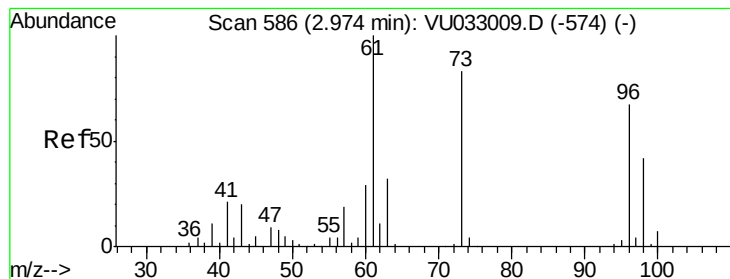
2.69

2.69

2.69

2.69





#17

trans-1,2-Dichloroethene

Concen: 50.159 ug/L

RT: 2.97 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

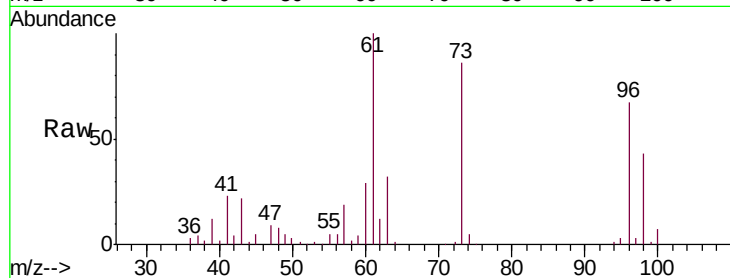
Tgt Ion: 96 Resp: 64850

Ion Ratio Lower Upper

96 100

61 148.7 100.9 187.5

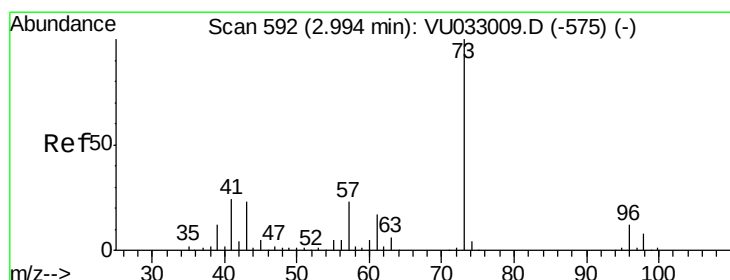
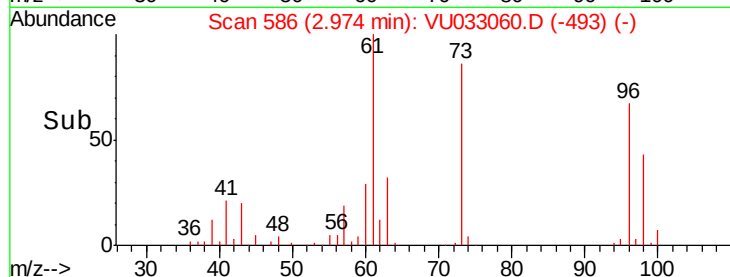
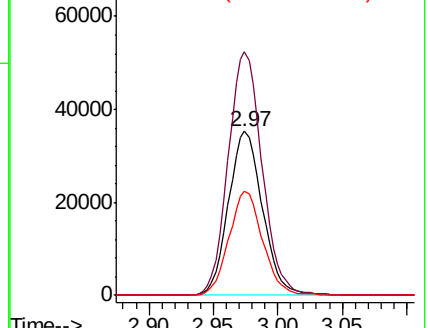
98 63.6 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU033060.D (-493) (-)

Ion 61.00 (60.70 to 61.70): VU033060.D (-493) (-)

Ion 98.00 (97.70 to 98.70): VU033060.D (-493) (-)



#18

Methyl tert-butyl Ether

Concen: 52.092 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

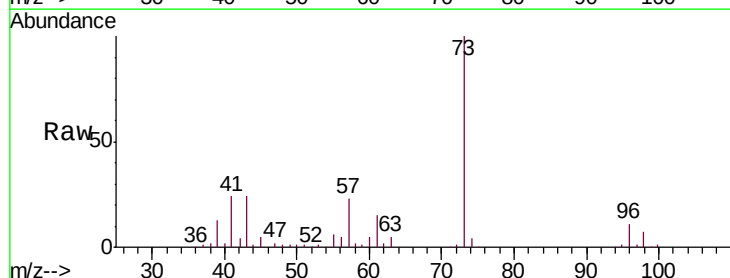
Tgt Ion: 73 Resp: 216233

Ion Ratio Lower Upper

73 100

43 24.0 17.8 26.8

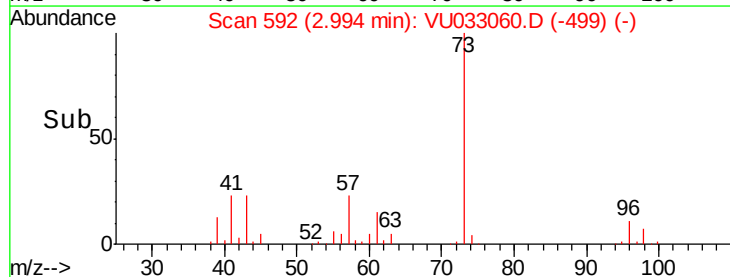
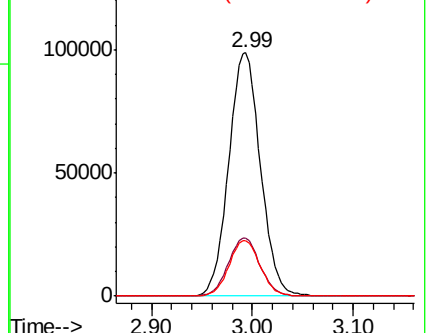
57 22.5 17.8 26.6

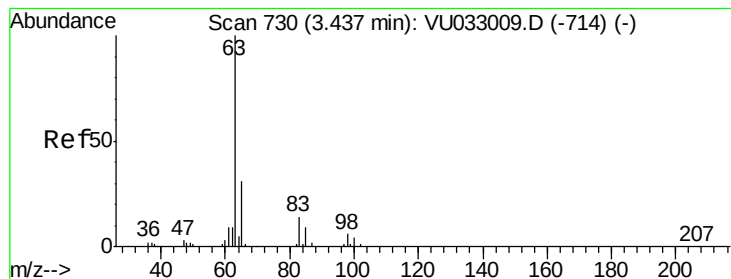


Abundance Ion 73.00 (72.70 to 73.70): VU033060.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU033060.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU033060.D (-499) (-)





#19

1,1-Dichloroethane

Concen: 53.293 ug/L

RT: 3.44 min Scan# 730

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

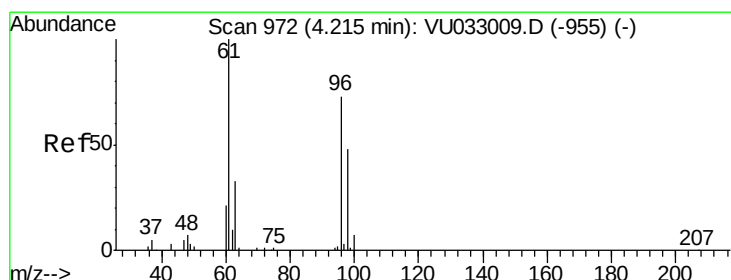
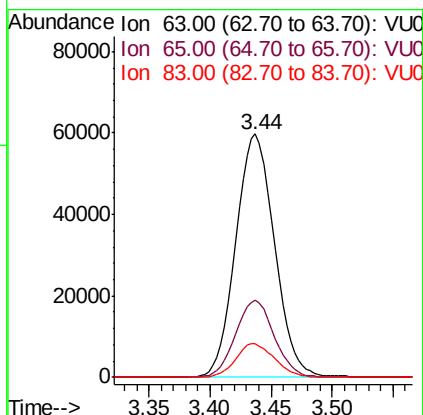
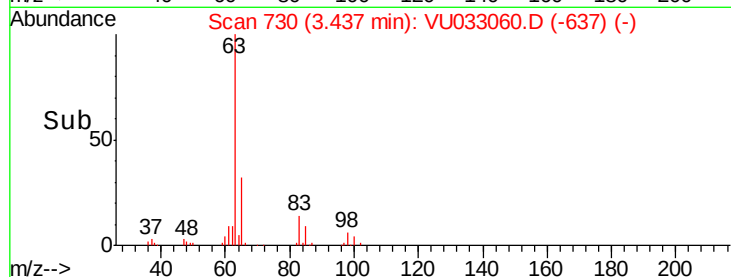
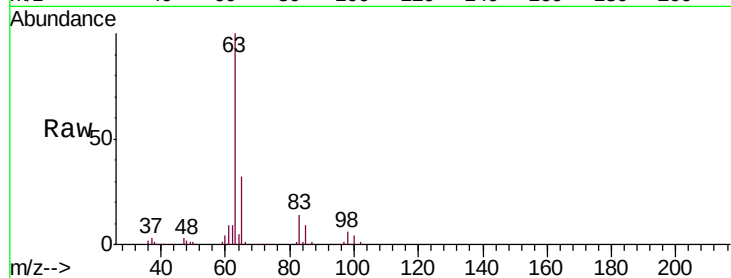
Tgt Ion: 63 Resp: 131358

Ion Ratio Lower Upper

63 100

65 31.6 22.0 41.0

83 13.7 9.5 17.7



#20

cis-1,2-Dichloroethene

Concen: 51.870 ug/L

RT: 4.22 min Scan# 972

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

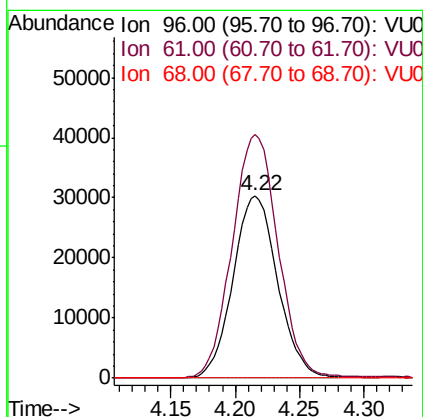
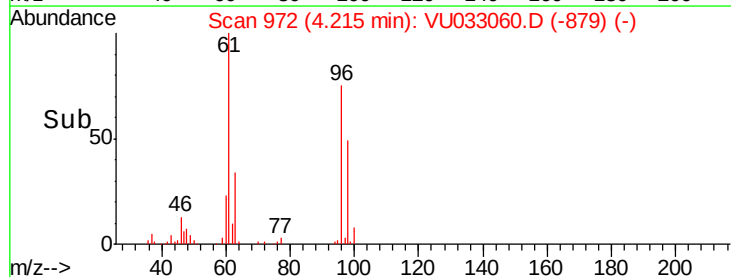
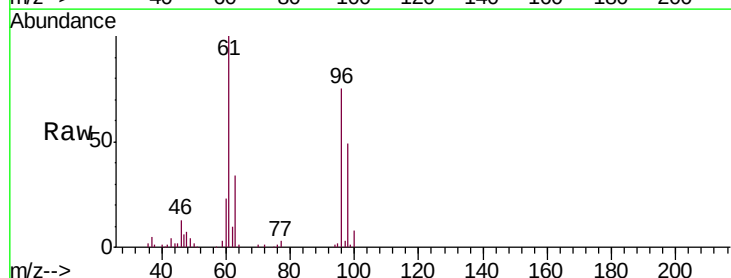
Tgt Ion: 96 Resp: 73056

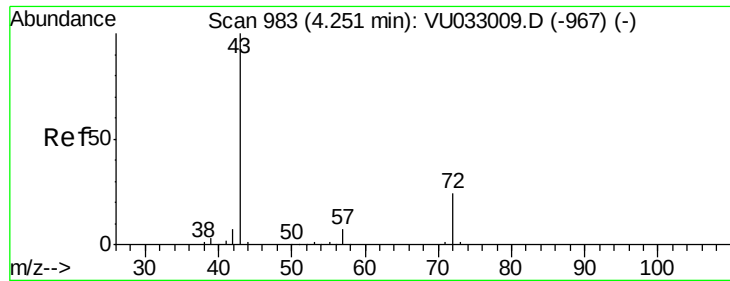
Ion Ratio Lower Upper

96 100

61 133.2 92.4 171.6

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 101.974 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

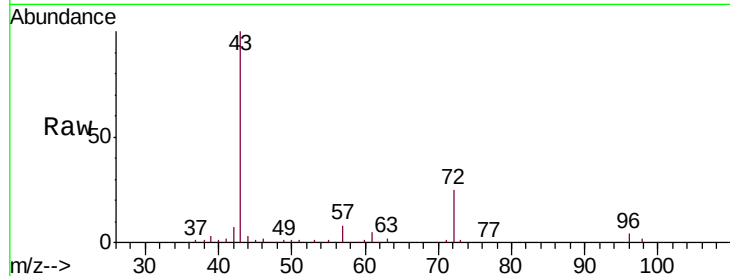
VSTD05041

Tgt Ion: 43 Resp: 157216

Ion Ratio Lower Upper

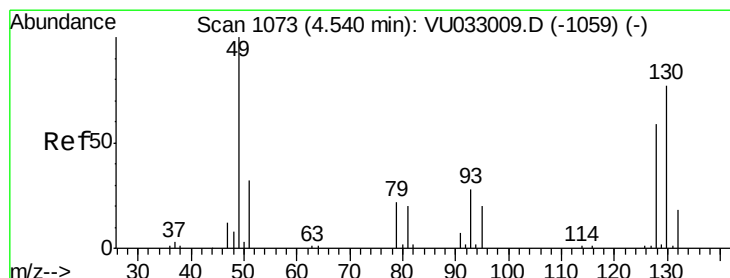
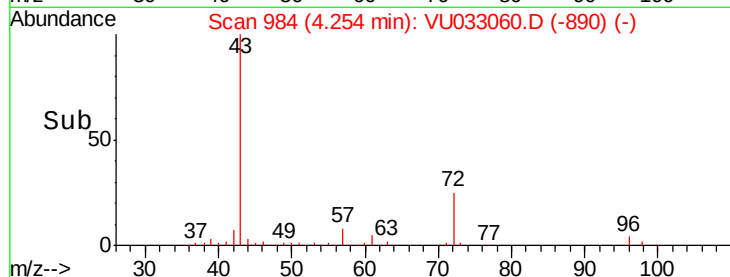
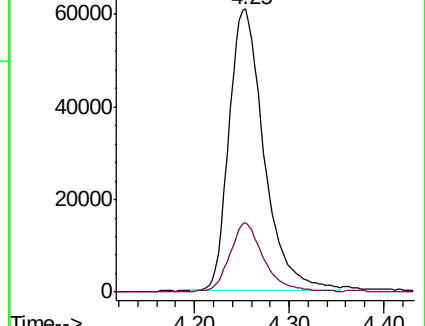
43 100

72 24.3 12.9 38.6



Abundance Ion 43.00 (42.70 to 43.70): VU033009.D (-967) (-)

Ion 72.00 (71.70 to 72.70): VU033009.D (-967) (-)



#23

Bromochloromethane

Concen: 53.204 ug/L

RT: 4.54 min Scan# 1072

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Tgt Ion:128 Resp: 39092

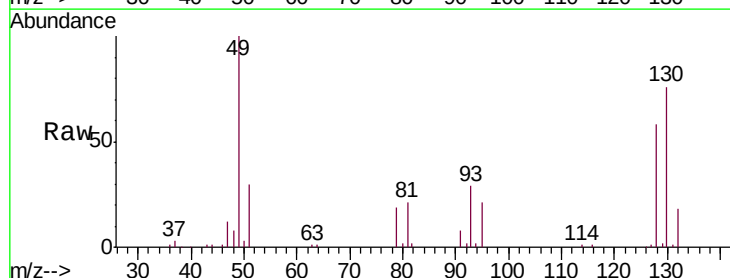
Ion Ratio Lower Upper

128 100

49 173.9 114.7 212.9

130 132.1 89.4 166.0

51 51.9 42.0 63.0

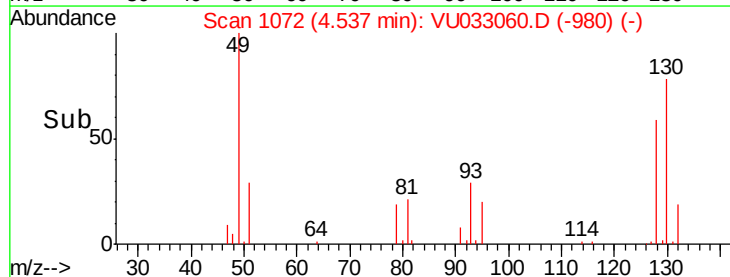
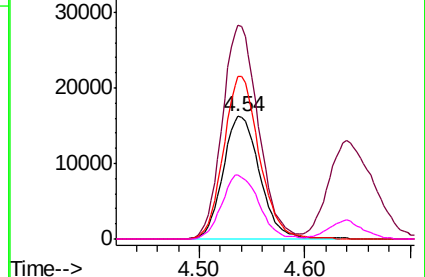


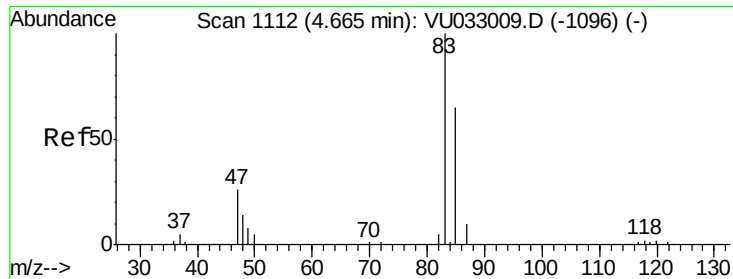
Abundance Ion 128.00 (127.70 to 128.70): VU033009.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU033009.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU033009.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU033009.D (-1059) (-)

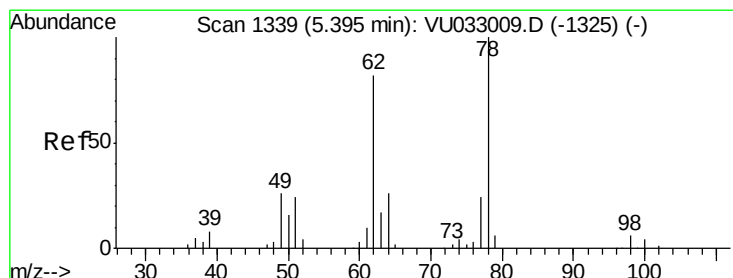
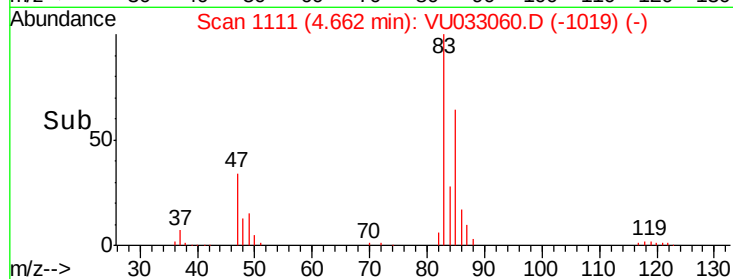
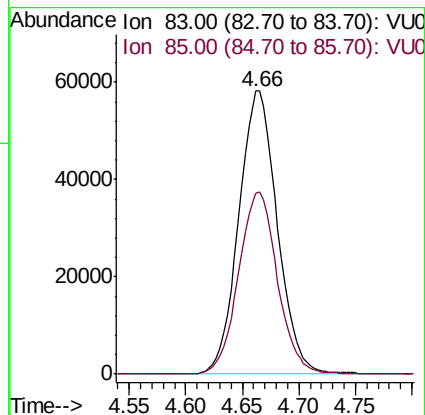
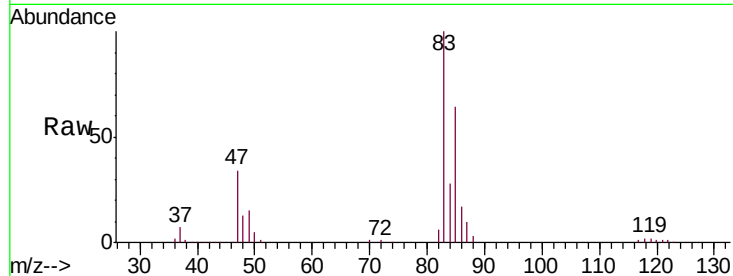




#25
Chloroform
Concen: 54.222 ug/L
RT: 4.66 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VU033060.D
Acq: 27 Jun 2019 12:35

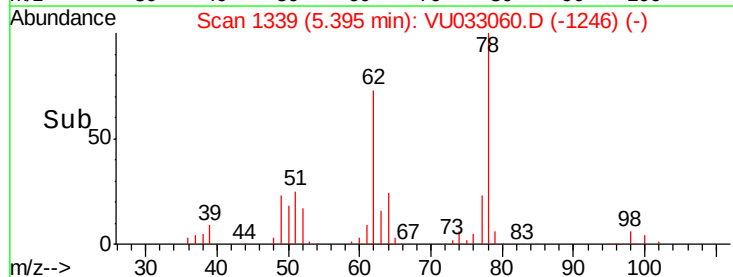
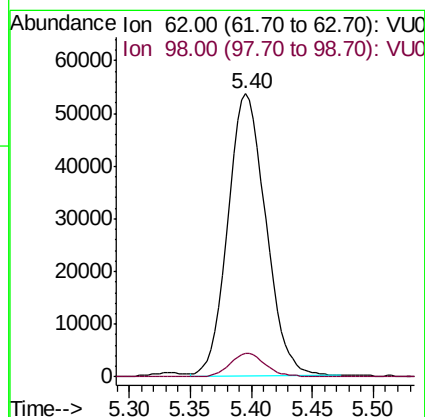
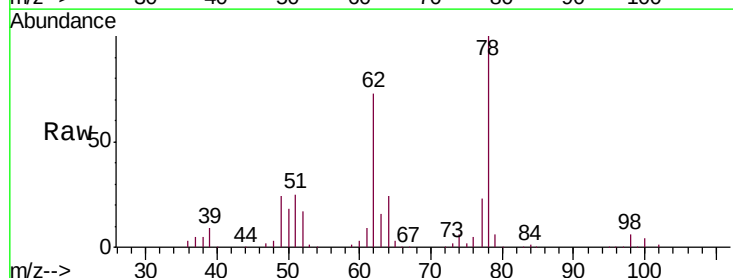
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

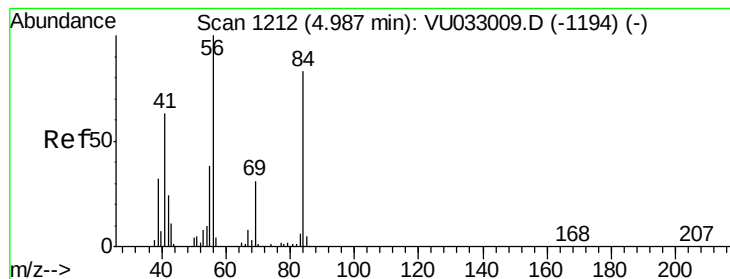
Tgt Ion: 83 Resp: 137823
Ion Ratio Lower Upper
83 100
85 64.0 44.2 82.2



#27
1,2-Dichloroethane
Concen: 55.660 ug/L
RT: 5.40 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VU033060.D
Acq: 27 Jun 2019 12:35

Tgt Ion: 62 Resp: 116226
Ion Ratio Lower Upper
62 100
98 8.2 6.6 10.0





#29

Cyclohexane

Concen: 49.855 ug/L

RT: 4.99 min Scan# 1212

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

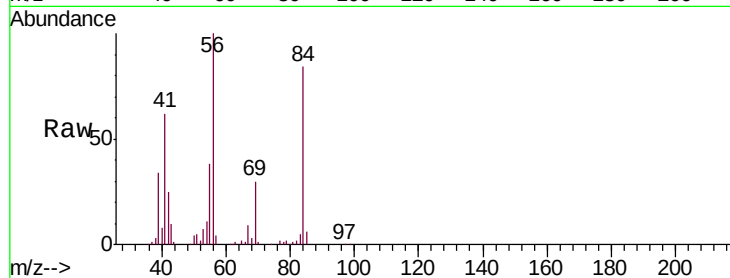
Tgt Ion: 56 Resp: 110747

Ion Ratio Lower Upper

56 100

69 29.4 24.2 36.4

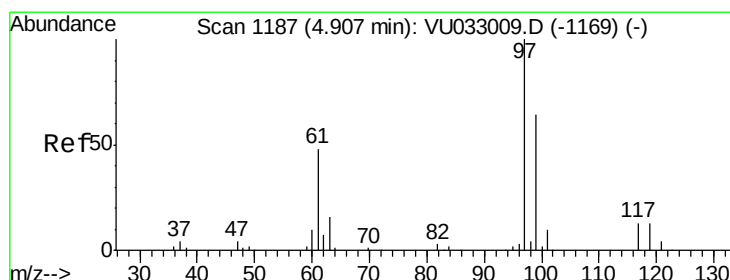
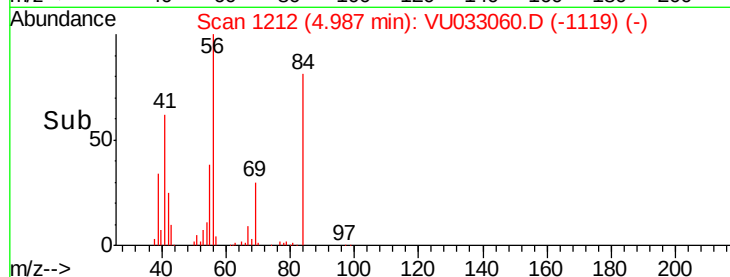
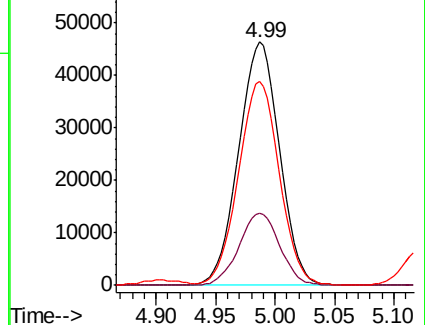
84 83.8 68.0 102.0



Abundance Ion 56.00 (55.70 to 56.70): VU033060.D (-1119) (-)

Ion 69.00 (68.70 to 69.70): VU033060.D (-1119) (-)

Ion 84.00 (83.70 to 84.70): VU033060.D (-1119) (-)



#30

1,1,1-Trichloroethane

Concen: 52.077 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

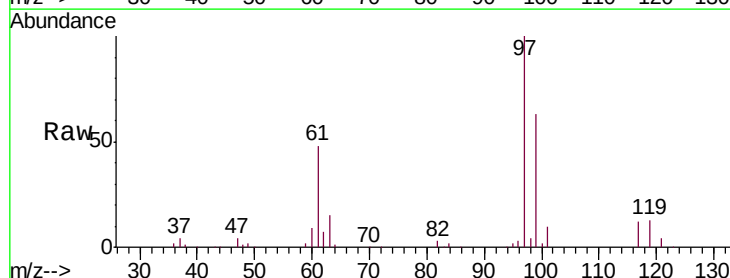
Tgt Ion: 97 Resp: 120705

Ion Ratio Lower Upper

97 100

99 63.1 50.7 76.1

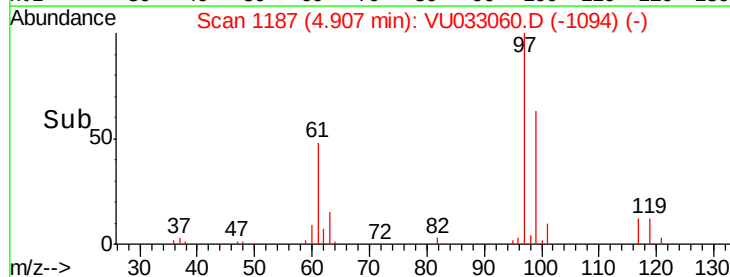
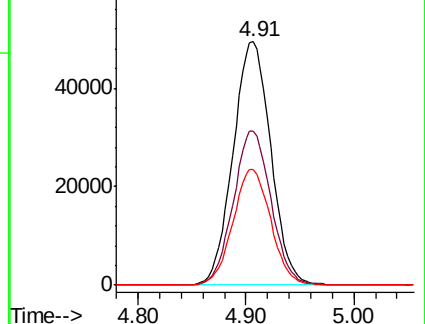
61 47.4 36.7 55.1

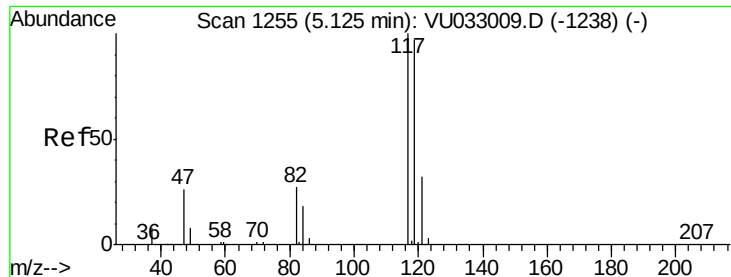


Abundance Ion 97.00 (96.70 to 97.70): VU033060.D (-1094) (-)

Ion 99.00 (98.70 to 99.70): VU033060.D (-1094) (-)

Ion 61.05 (60.75 to 61.75): VU033060.D (-1094) (-)





#31

Carbon tetrachloride

Concen: 51.196 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

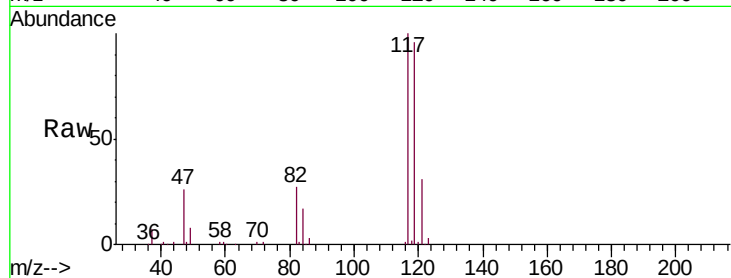
VSTD05041

Tgt Ion:117 Resp: 107970

Ion Ratio Lower Upper

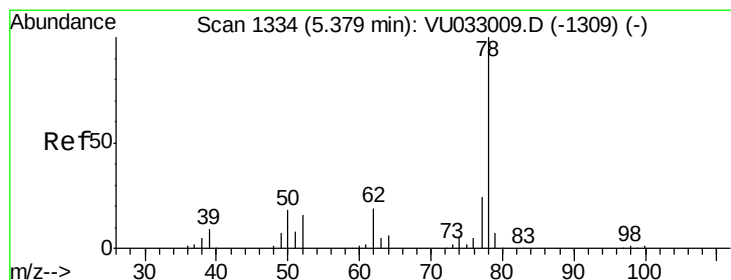
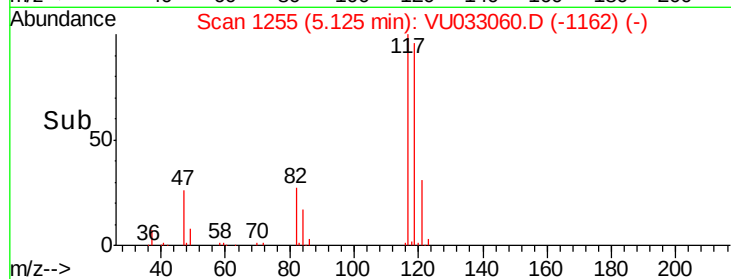
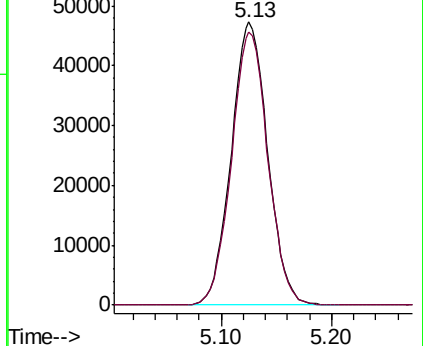
117 100

119 96.7 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.037 ug/L

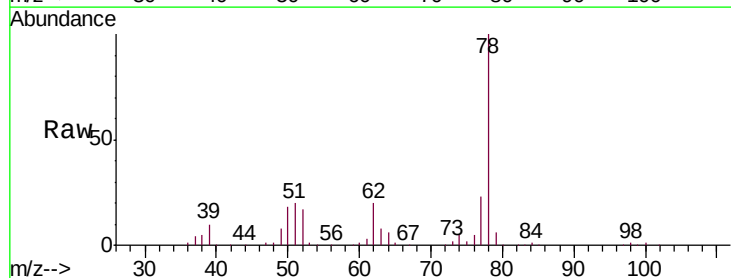
RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

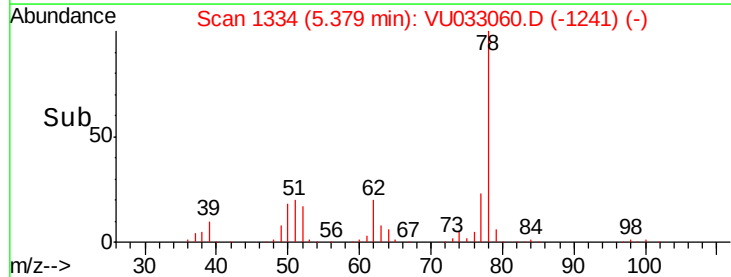
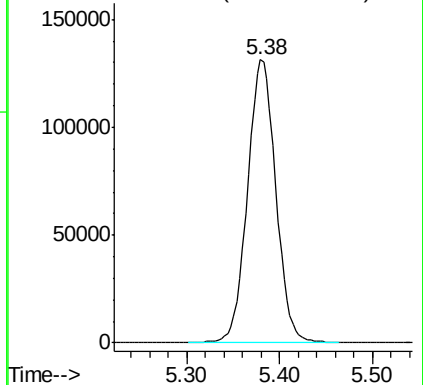
Lab File: VU033060.D

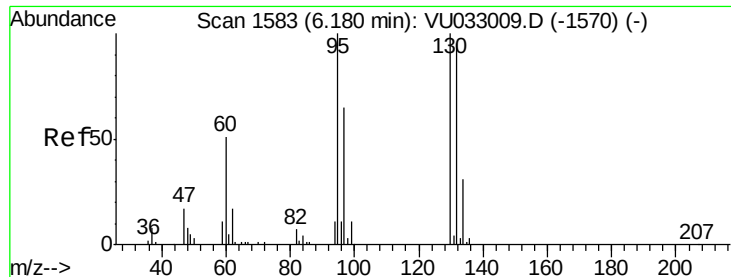
Acq: 27 Jun 2019 12:35

Tgt Ion: 78 Resp: 279708



Abundance Ion 78.00 (77.70 to 78.70): VU0

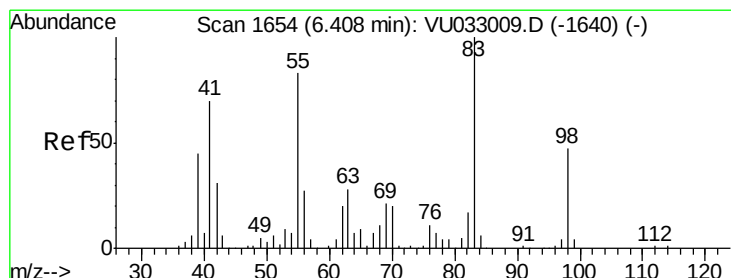
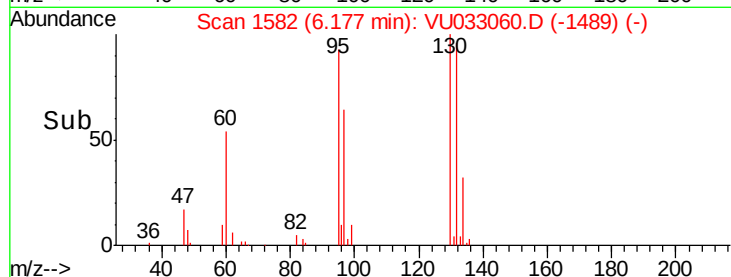
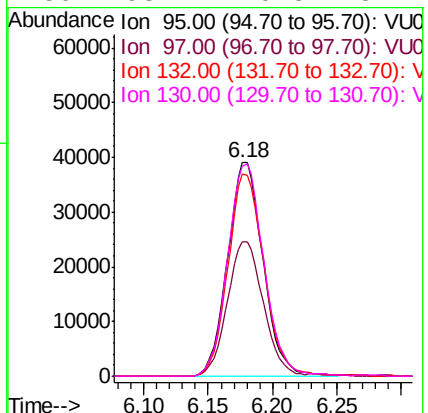
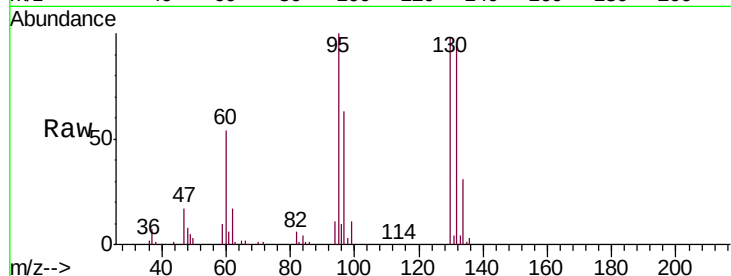




#34
 Trichloroethene
 Concen: 51.105 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

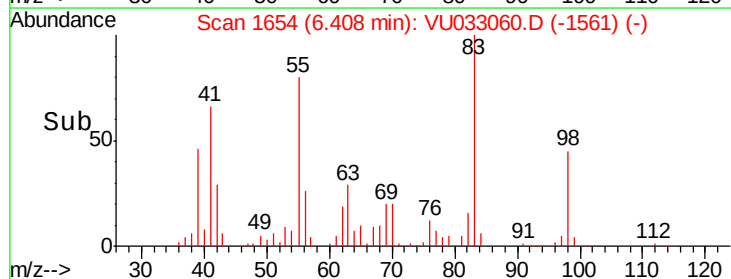
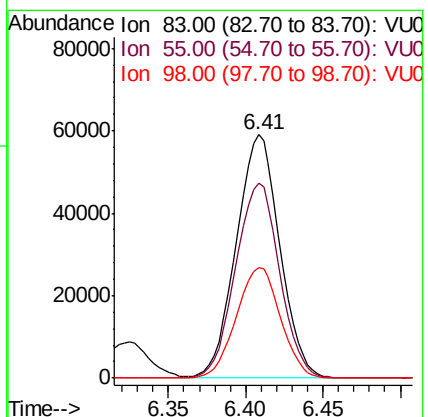
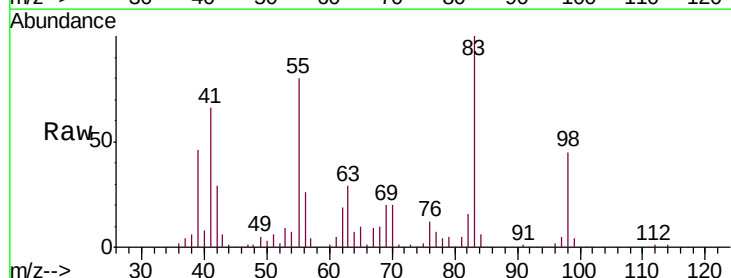
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

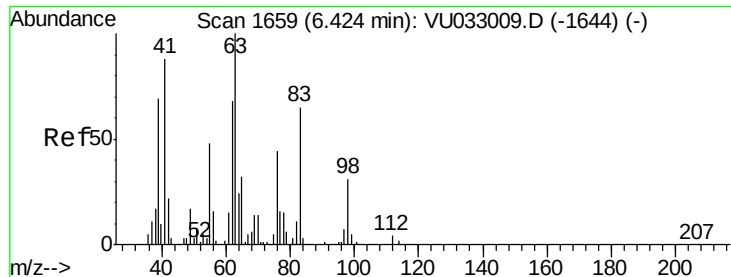
Tgt Ion:	95	Resp:	74834
Ion	Ratio	Lower	Upper
95	100		
97	62.9	45.9	85.3
132	94.4	68.5	127.3
130	98.2	70.8	131.4



#35
 Methylcyclohexane
 Concen: 51.230 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

Tgt Ion:	83	Resp:	115956
Ion	Ratio	Lower	Upper
83	100		
55	81.0	62.6	94.0
98	46.1	37.4	56.0

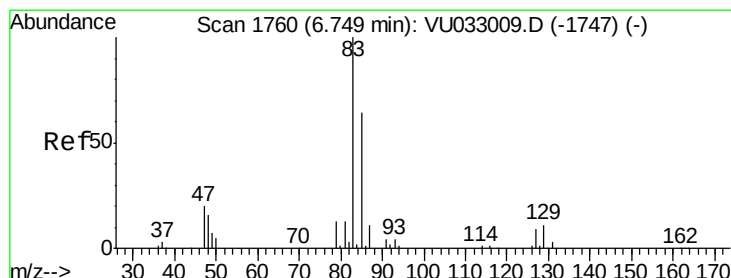
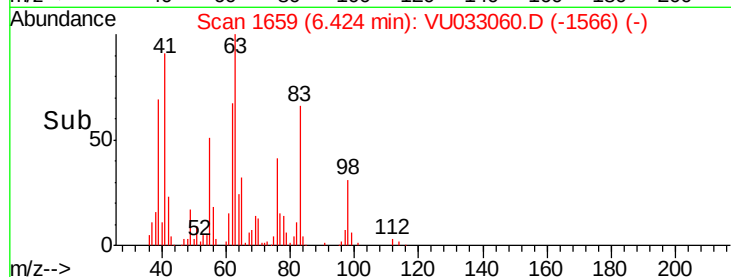
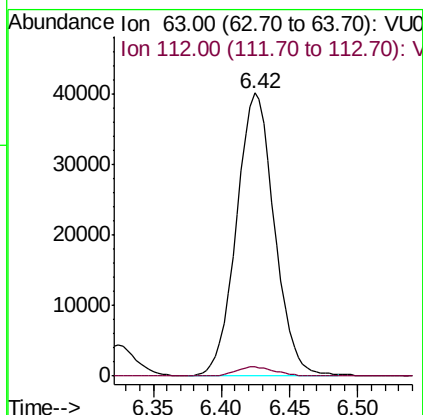
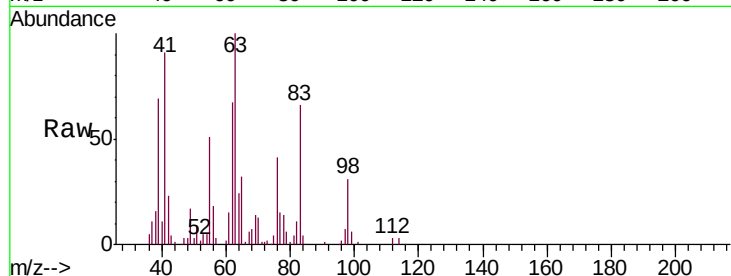




#37
 1,2-Dichloropropane
 Concen: 51.754 ug/L
 RT: 6.42 min Scan# 1659
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

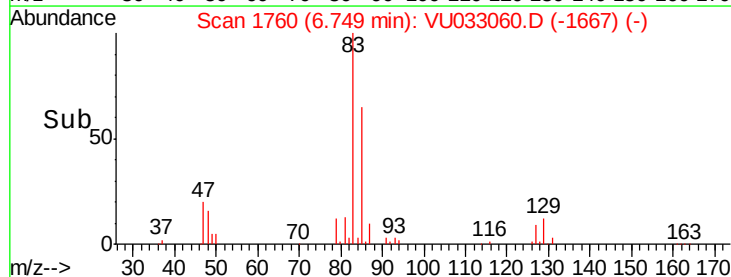
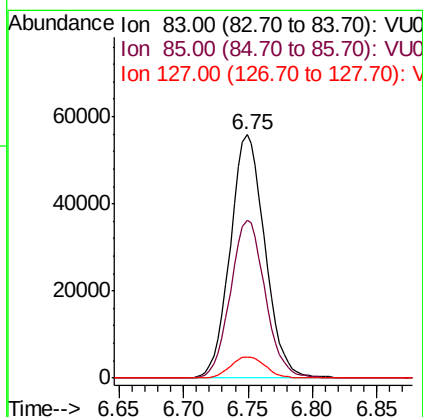
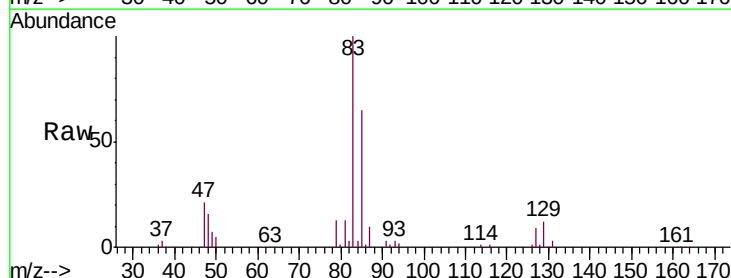
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

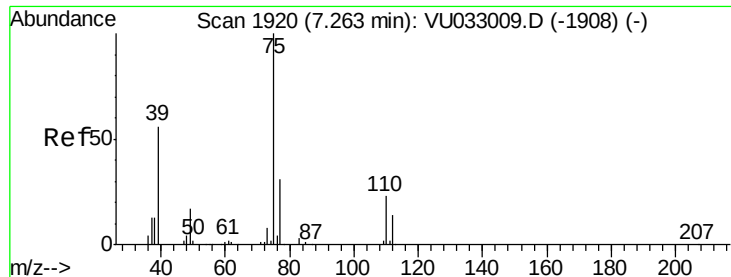
Tgt Ion: 63 Resp: 77803
 Ion Ratio Lower Upper
 63 100
 112 3.4 3.0 4.6



#38
 Bromodichloromethane
 Concen: 51.761 ug/L
 RT: 6.75 min Scan# 1760
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

Tgt Ion: 83 Resp: 104632
 Ion Ratio Lower Upper
 83 100
 85 64.8 45.0 83.6
 127 8.8 7.0 10.6

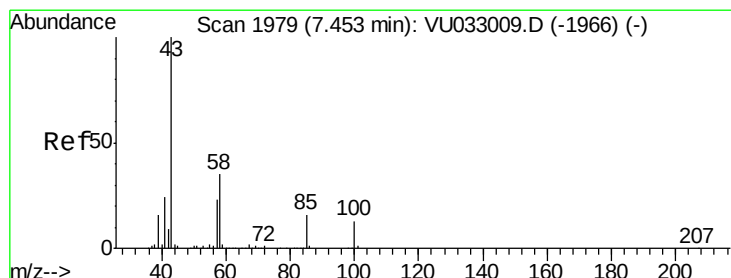
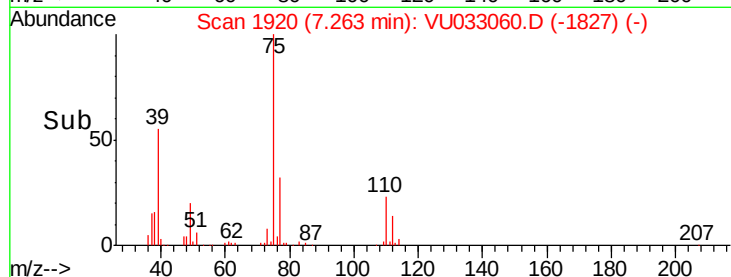
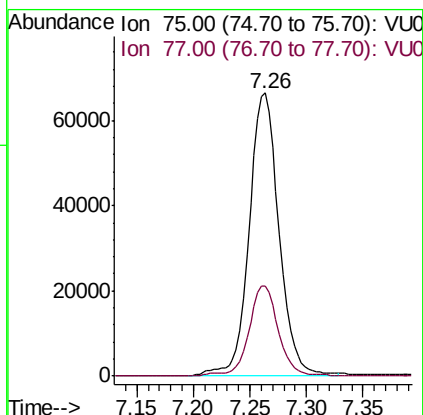
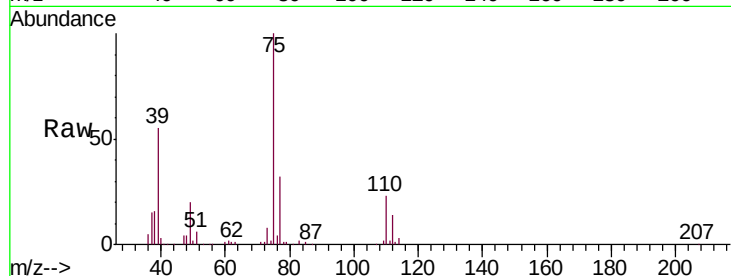




#39
 cis-1,3-Dichloropropene
 Concen: 52.290 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

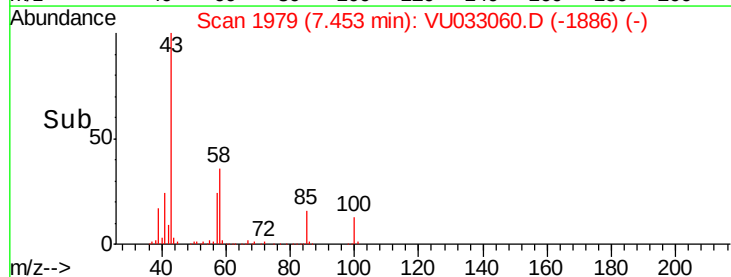
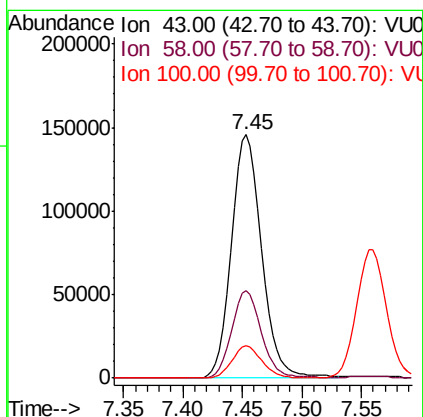
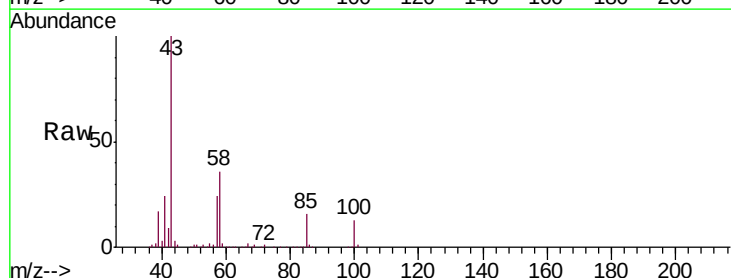
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

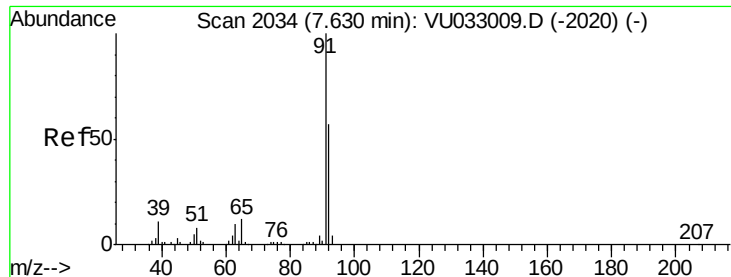
Tgt Ion: 75 Resp: 122470
 Ion Ratio Lower Upper
 75 100
 77 32.0 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 107.124 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

Tgt Ion: 43 Resp: 257111
 Ion Ratio Lower Upper
 43 100
 58 35.5 29.4 44.2
 100 13.1 11.2 16.8





#42

Toluene

Concen: 51.499 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

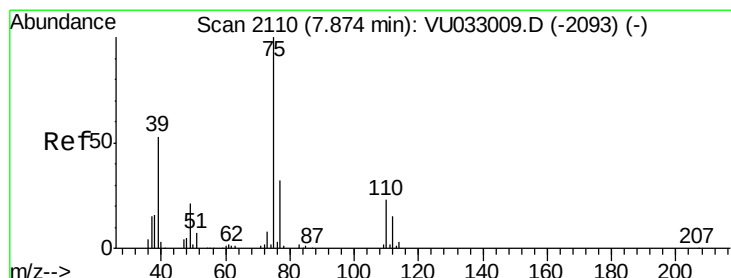
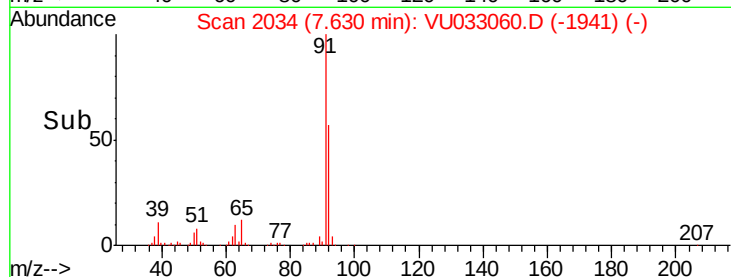
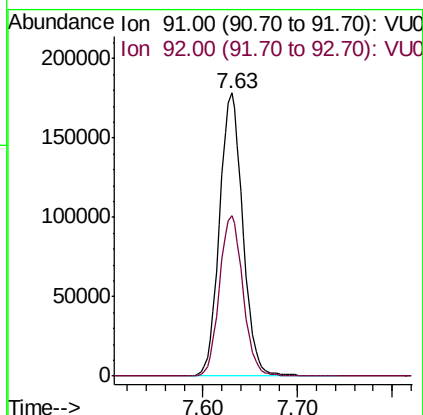
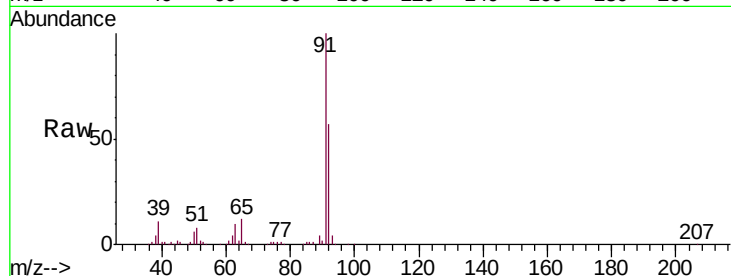
VSTD05041

Tgt Ion: 91 Resp: 305372

Ion Ratio Lower Upper

91 100

92 56.6 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 51.712 ug/L

RT: 7.87 min Scan# 2109

Delta R.T. -0.00 min

Lab File: VU033060.D

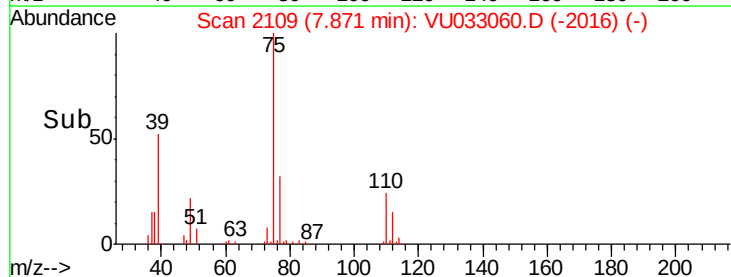
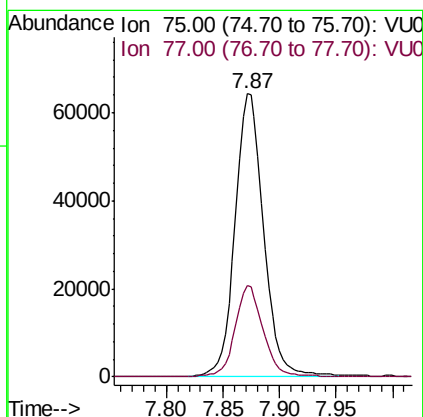
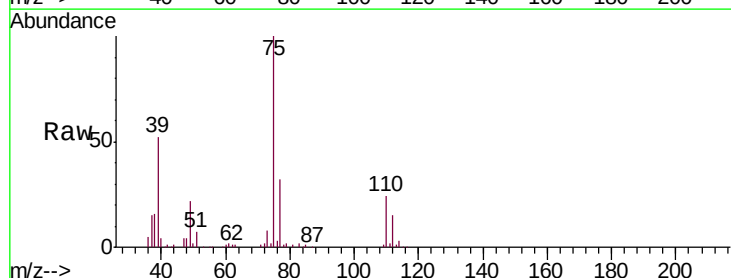
Acq: 27 Jun 2019 12:35

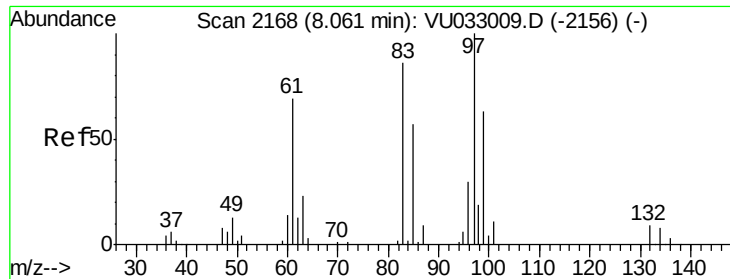
Tgt Ion: 75 Resp: 113759

Ion Ratio Lower Upper

75 100

77 32.3 21.8 40.4

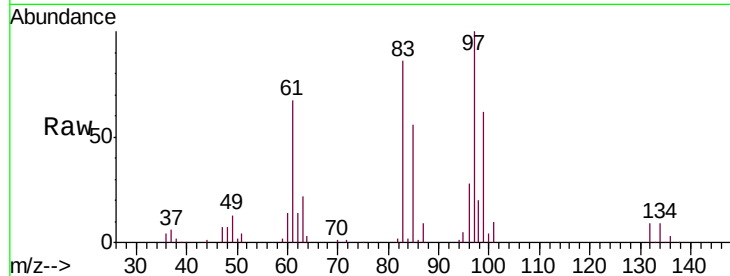




#45
 1,1,2-Trichloroethane
 Concen: 52.222 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

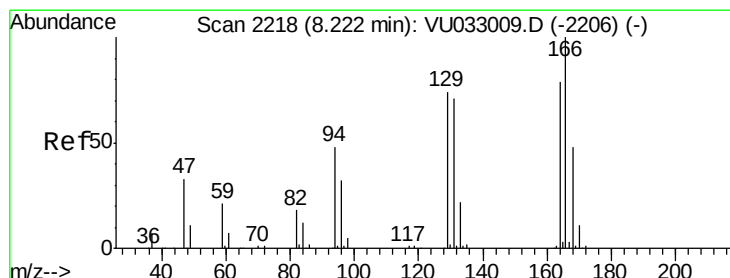
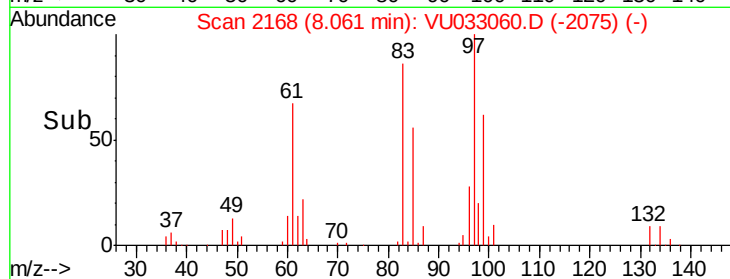
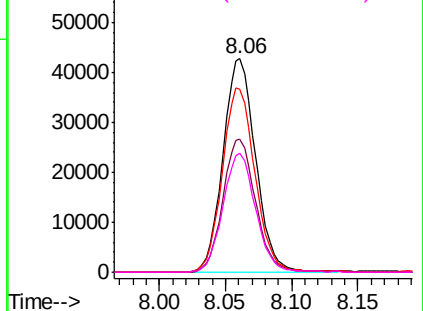
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Tgt Ion:	97	Resp:	73071
Ion	Ratio	Lower	Upper
97	100		
99	62.2	43.1	80.1
83	85.8	61.4	114.0
85	55.5	39.2	72.8



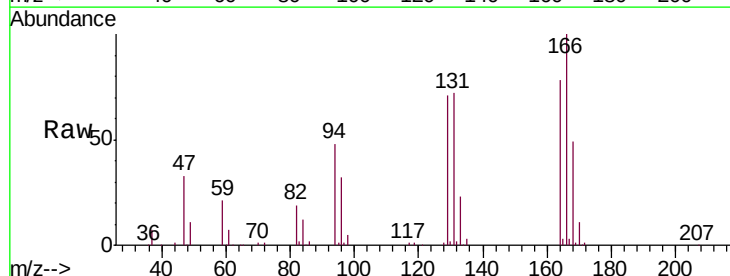
Abundance

Ion 97.00 (96.70 to 97.70): VU033009.D (-2156) (-)



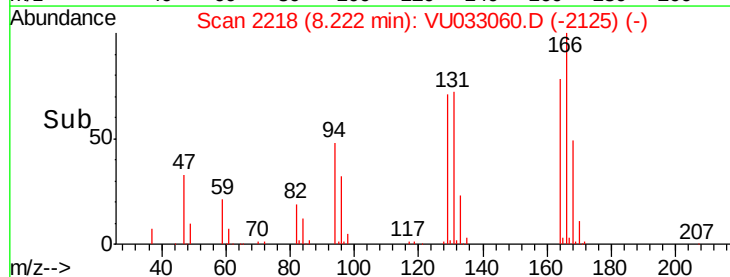
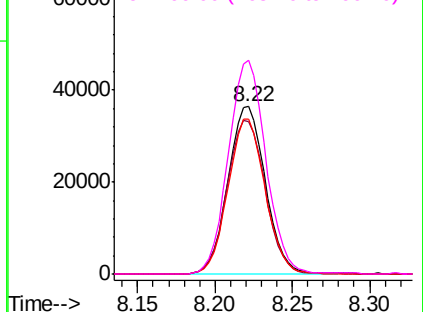
#46
 Tetrachloroethene
 Concen: 50.957 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

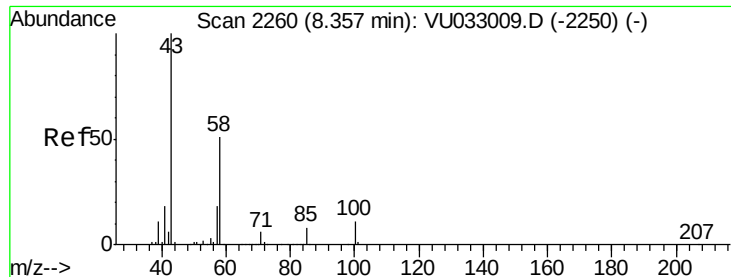
Tgt Ion:	164	Resp:	61142
Ion	Ratio	Lower	Upper
164	100		
129	91.1	64.8	120.3
131	92.4	64.5	119.7
166	127.4	91.3	169.6



Abundance

Ion 164.00 (163.70 to 164.70): VU033009.D (-2206) (-)

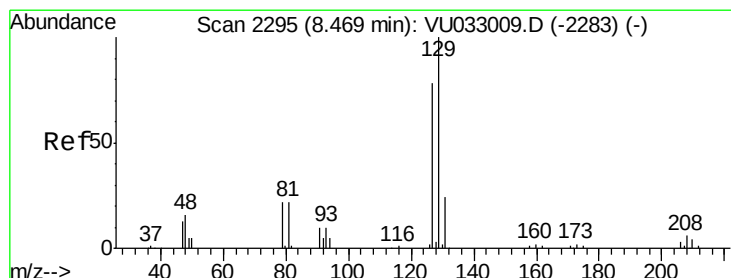
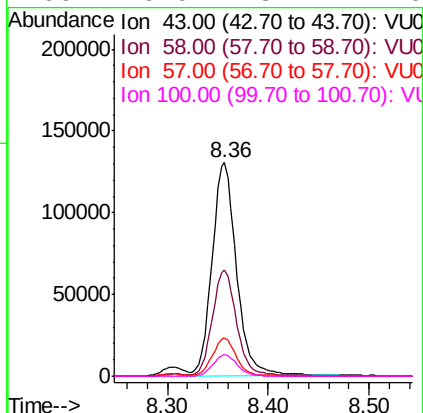
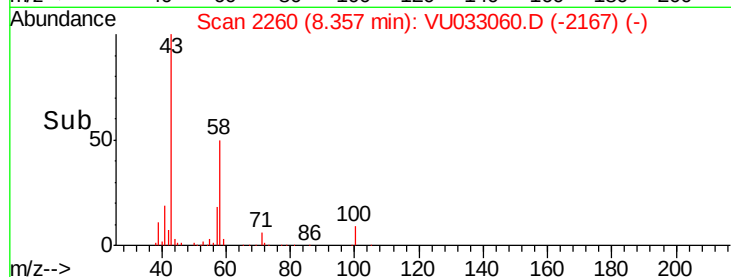
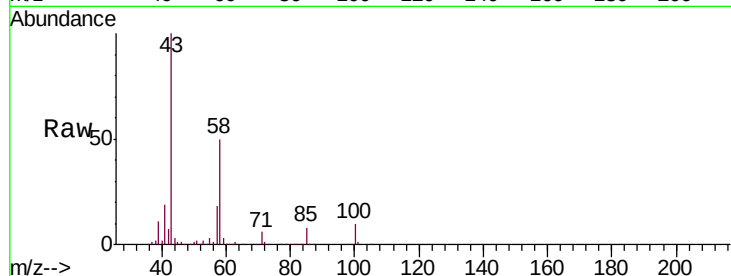




#48
2-Hexanone
Concen: 103.762 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU033060.D
Acq: 27 Jun 2019 12:35

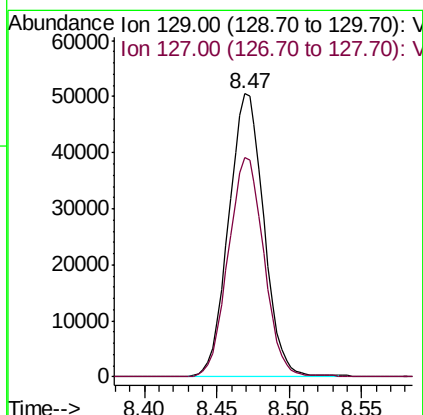
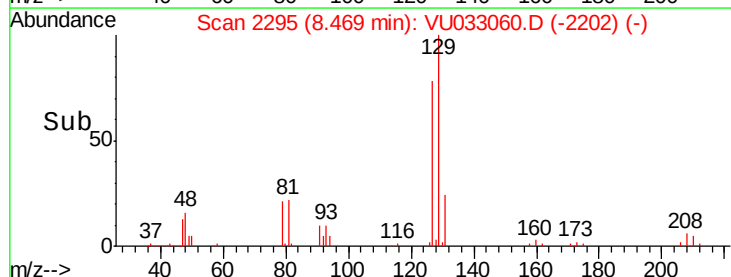
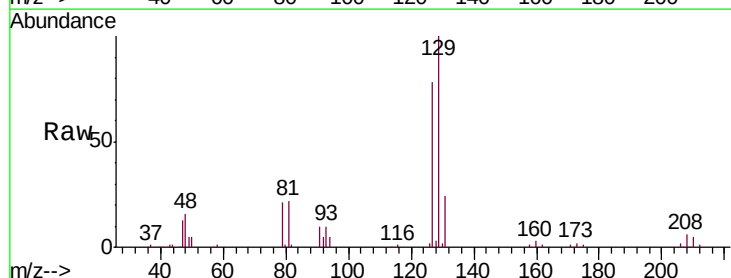
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

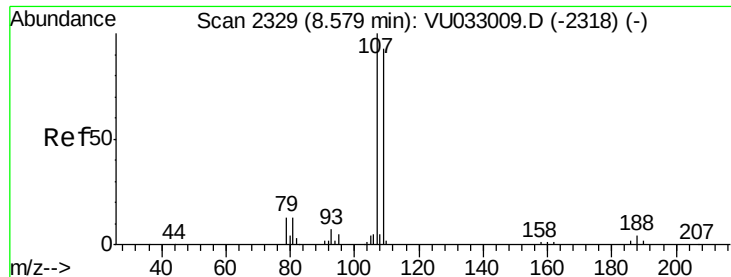
Tgt Ion:	43	Resp:	219731
Ion	Ratio	Lower	Upper
43	100		
58	48.0	40.2	60.2
57	17.6	14.2	21.4
100	10.0	8.4	12.6



#49
Dibromochloromethane
Concen: 50.573 ug/L
RT: 8.47 min Scan# 2295
Delta R.T. -0.00 min
Lab File: VU033060.D
Acq: 27 Jun 2019 12:35

Tgt Ion:	129	Resp:	85309
Ion	Ratio	Lower	Upper
129	100		
127	77.5	52.3	97.1





#50

1,2-Dibromoethane

Concen: 51.042 ug/L

RT: 8.58 min Scan# 2329

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

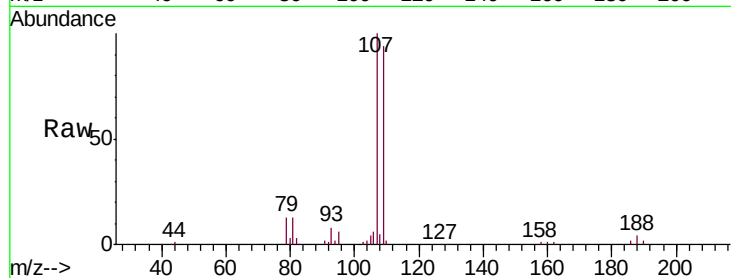
Tgt Ion:107 Resp: 79316

Ion Ratio Lower Upper

107 100

109 94.2 65.4 121.4

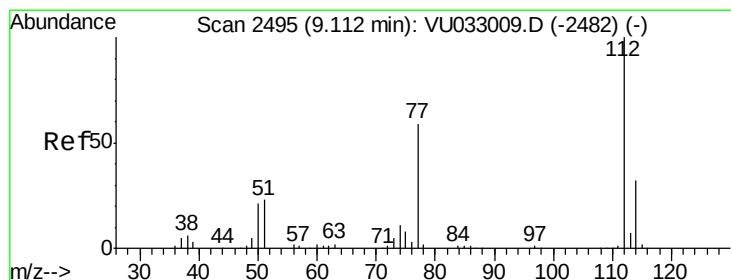
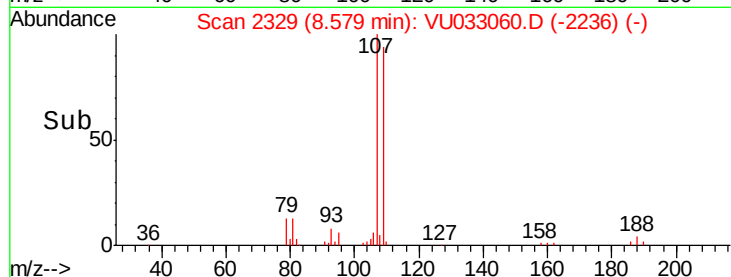
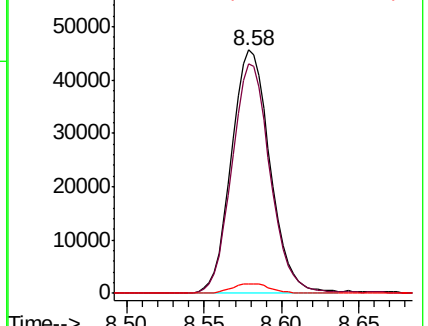
188 4.1 3.1 4.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 50.947 ug/L

RT: 9.11 min Scan# 2495

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

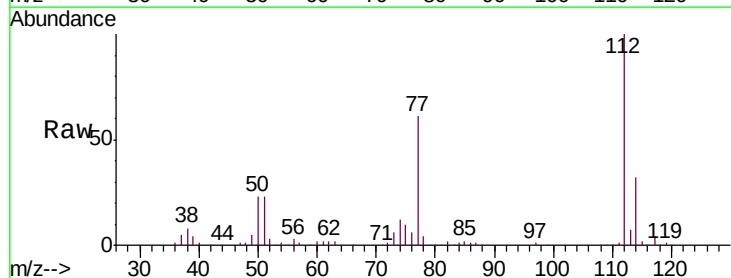
Tgt Ion:112 Resp: 198795

Ion Ratio Lower Upper

112 100

114 31.7 22.8 42.4

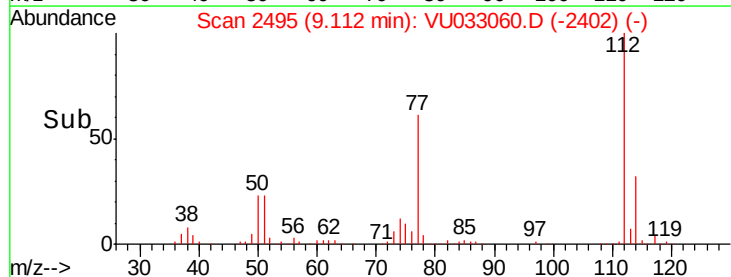
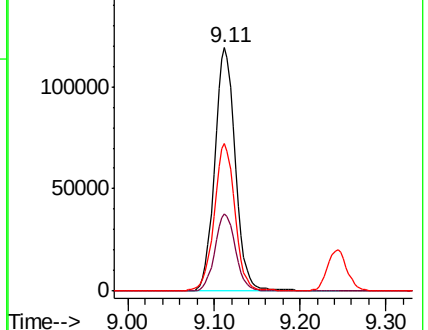
77 60.6 46.3 69.5

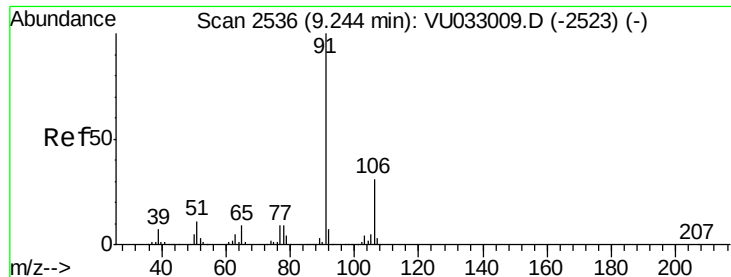


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 51.950 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

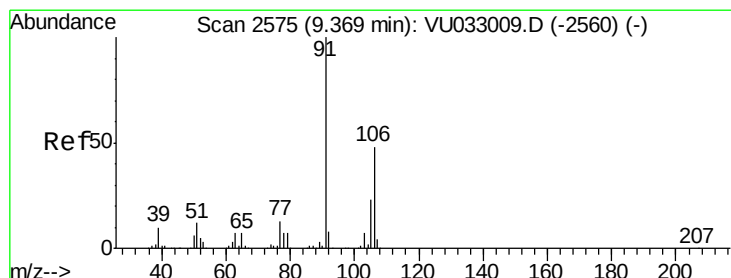
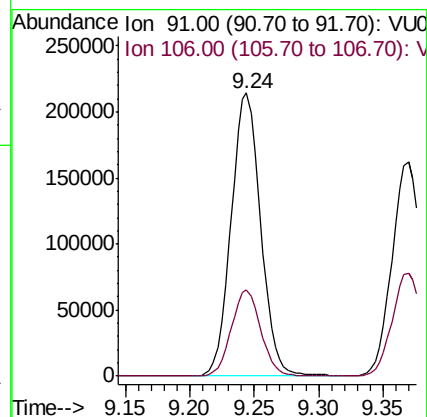
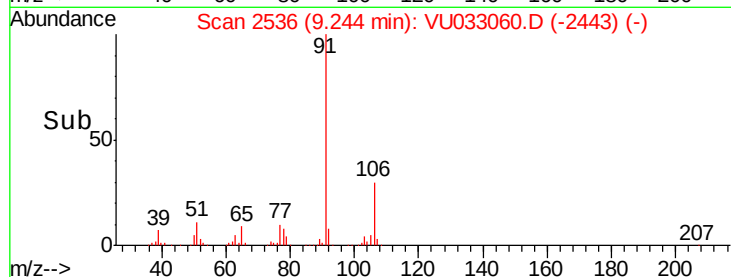
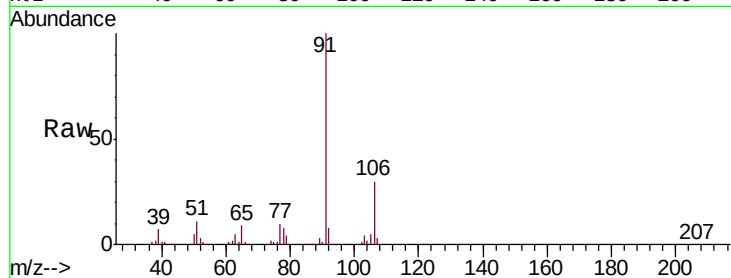
VSTD05041

Tgt Ion: 91 Resp: 340972

Ion Ratio Lower Upper

91 100

106 30.5 21.8 40.4



#53

m,p-Xylene

Concen: 51.972 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU033060.D

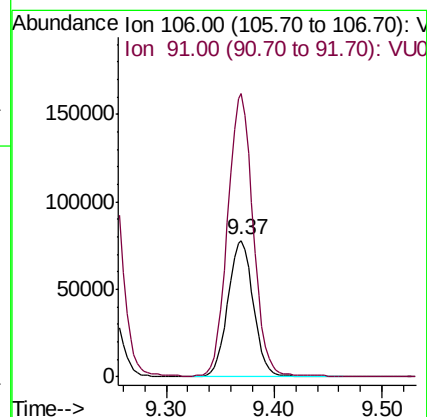
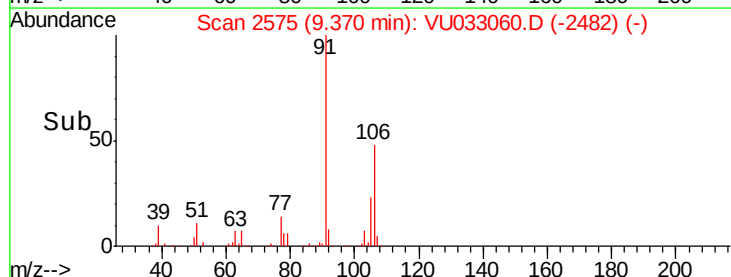
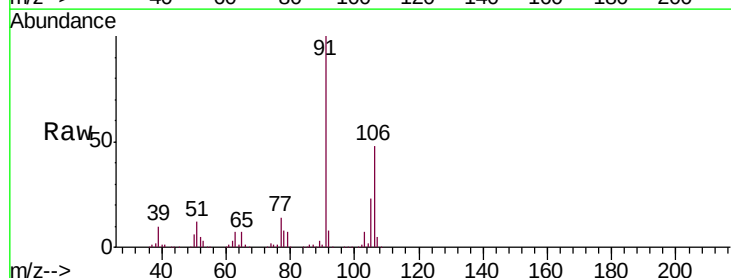
Acq: 27 Jun 2019 12:35

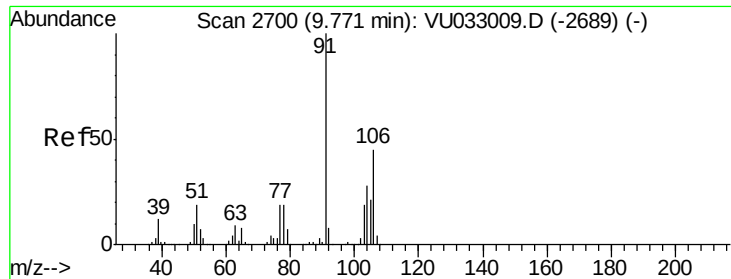
Tgt Ion: 106 Resp: 128701

Ion Ratio Lower Upper

106 100

91 207.0 142.9 265.5

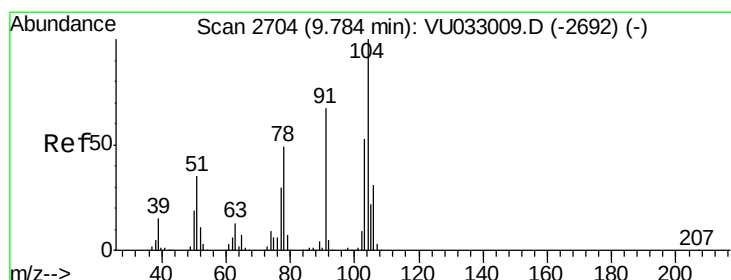
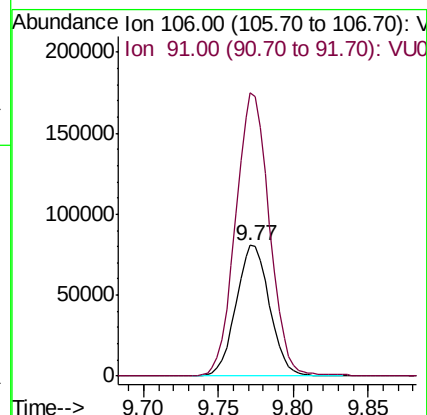
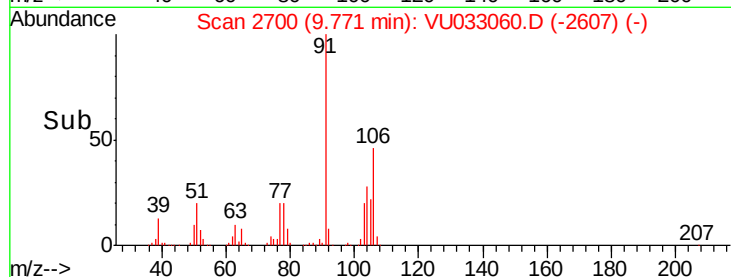
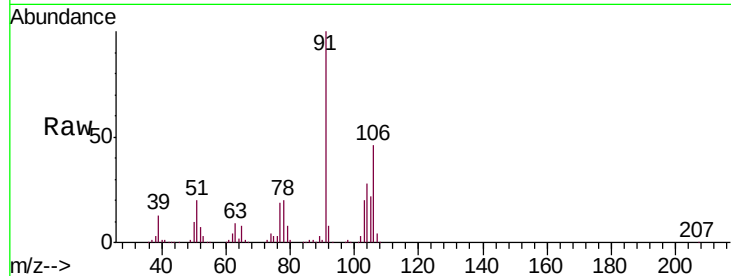




#54
o-xylene
Concen: 52.341 ug/L
RT: 9.77 min Scan# 2700
Delta R.T. -0.00 min
Lab File: VU033060.D
Acq: 27 Jun 2019 12:35

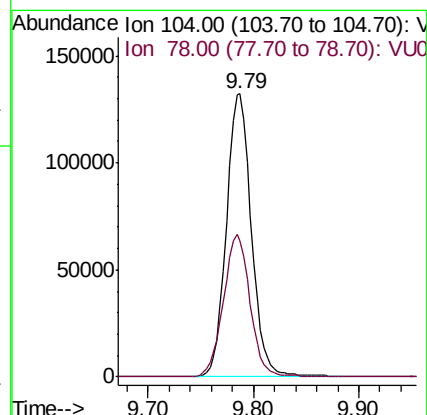
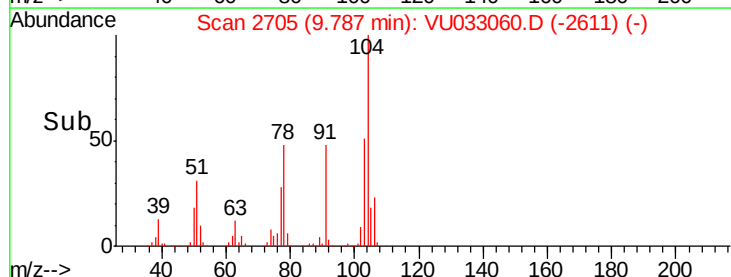
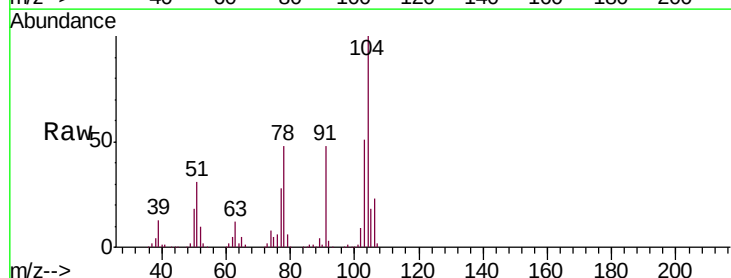
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

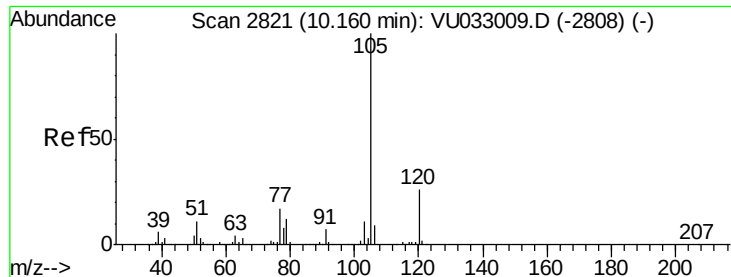
Tgt Ion:106 Resp: 126579
Ion Ratio Lower Upper
106 100
91 216.2 152.9 284.1



#55
Styrene
Concen: 51.846 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. 0.00 min
Lab File: VU033060.D
Acq: 27 Jun 2019 12:35

Tgt Ion:104 Resp: 217513
Ion Ratio Lower Upper
104 100
78 48.2 32.1 59.5





#56

Isopropylbenzene

Concen: 51.612 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

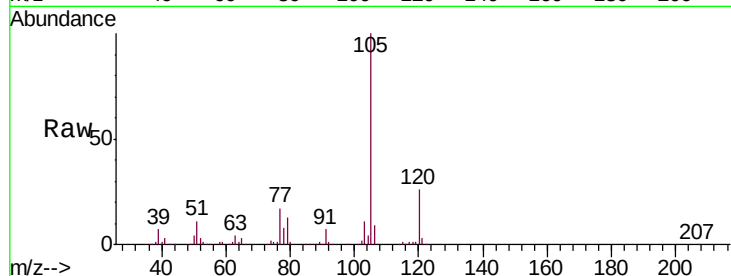
Tgt Ion:105 Resp: 336372

Ion Ratio Lower Upper

105 100

120 26.2 21.4 32.0

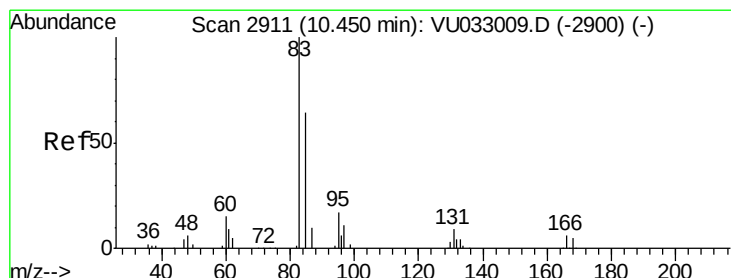
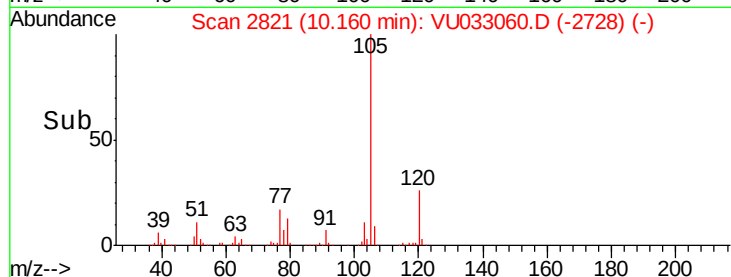
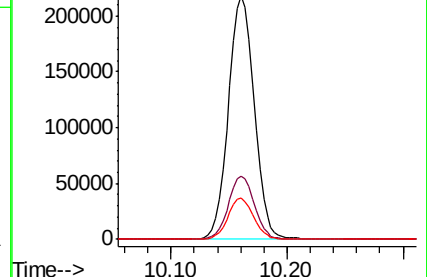
77 16.8 13.0 19.4



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: 50.309 ug/L

RT: 10.45 min Scan# 2911

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

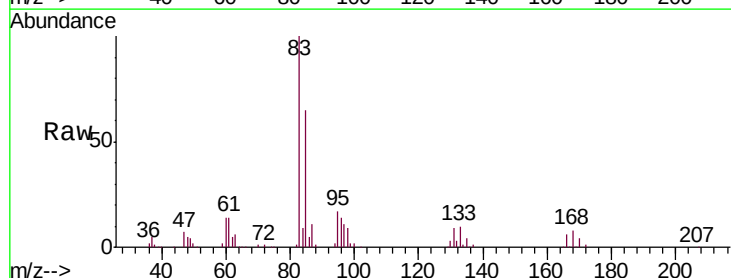
Tgt Ion: 83 Resp: 127379

Ion Ratio Lower Upper

83 100

85 64.5 45.8 85.2

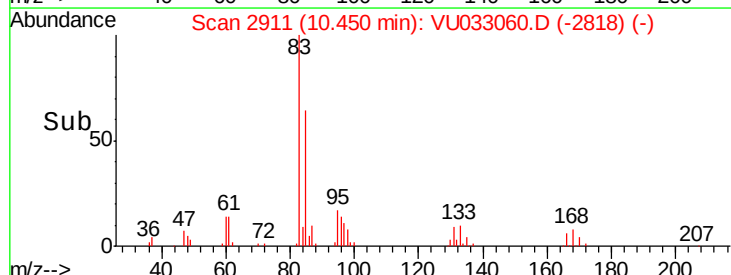
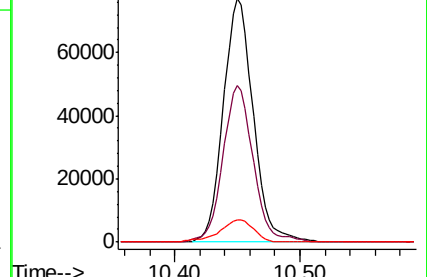
131 9.4 7.8 11.8

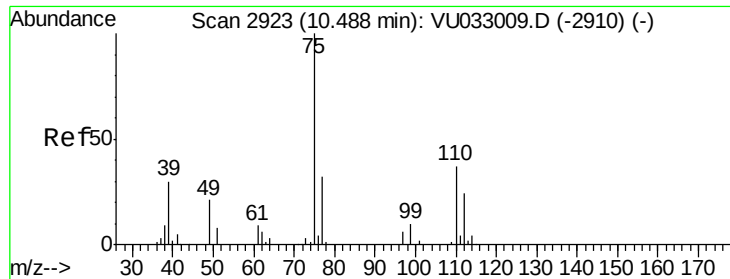


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

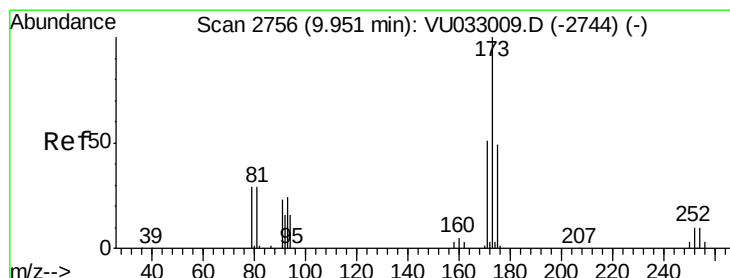
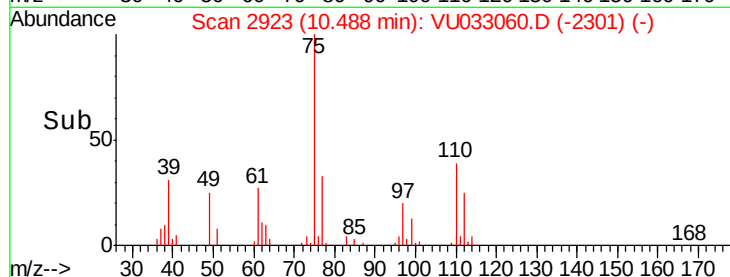
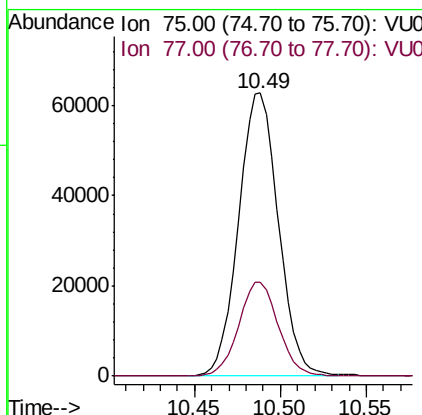
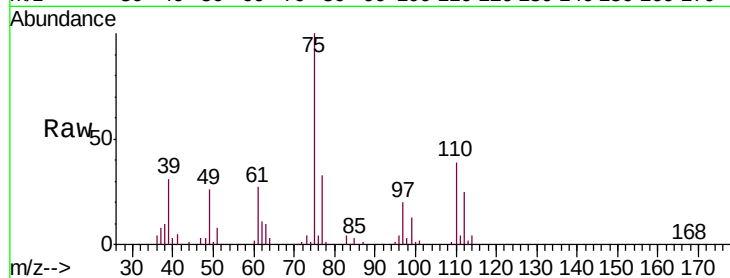




#59
 1,2,3-Trichloropropane
 Concen: 50.429 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

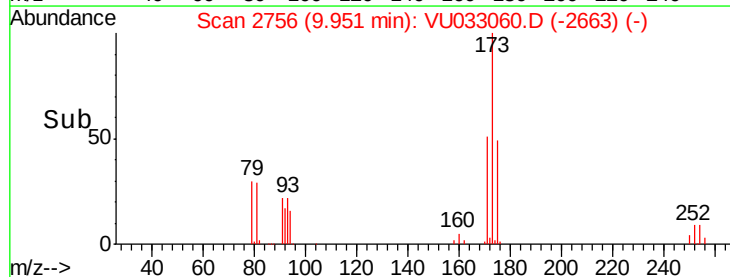
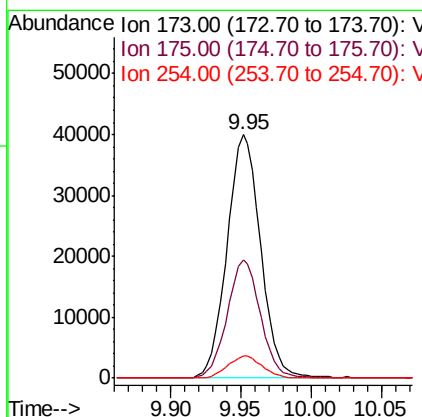
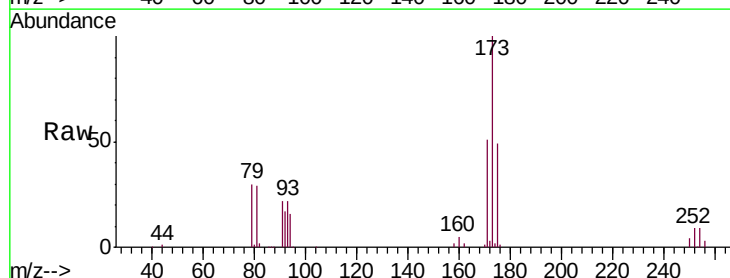
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

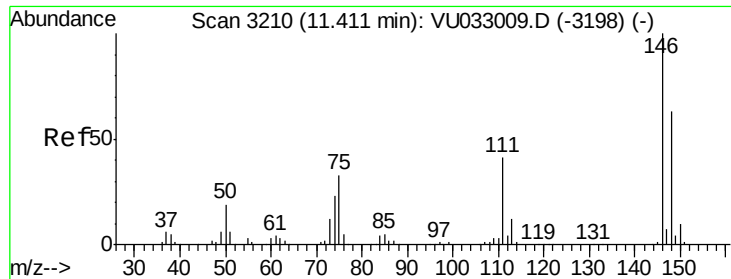
Tgt Ion: 75 Resp: 101174
 Ion Ratio Lower Upper
 75 100
 77 33.2 25.5 38.3



#61
 Bromoform
 Concen: 51.164 ug/L
 RT: 9.95 min Scan# 2756
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

Tgt Ion: 173 Resp: 66578
 Ion Ratio Lower Upper
 173 100
 175 48.0 39.0 58.4
 254 9.2 7.5 11.3

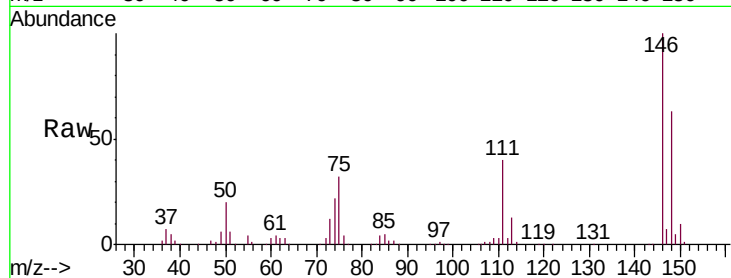




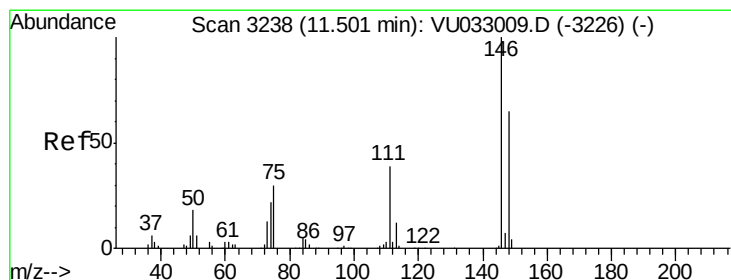
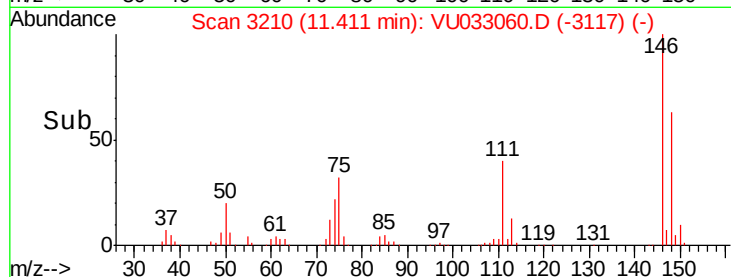
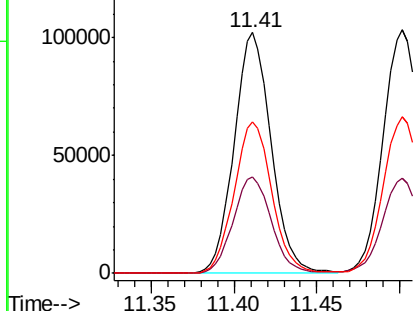
#62
 1,3-Dichlorobenzene
 Concen: 51.265 ug/L
 RT: 11.41 min Scan# 3210
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Tgt Ion:146 Resp: 158800
 Ion Ratio Lower Upper
 146 100
 111 39.8 28.4 52.8
 148 63.1 45.5 84.5

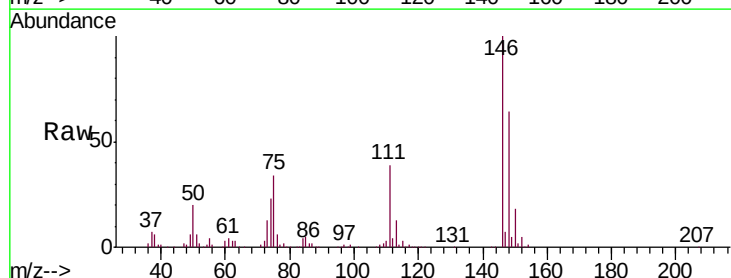


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

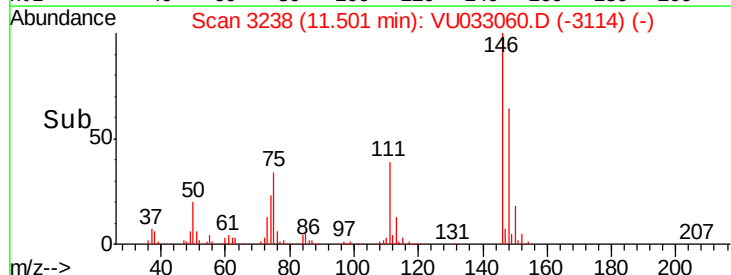
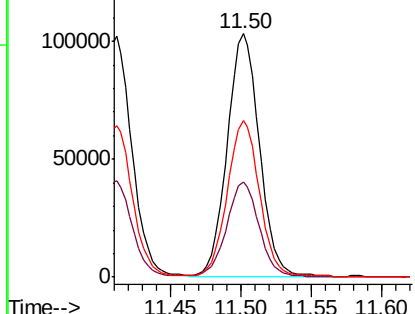


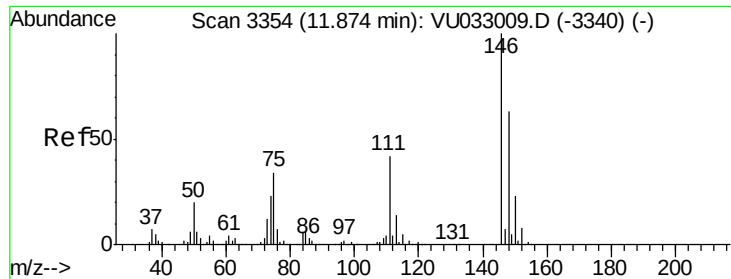
#63
 1,4-Dichlorobenzene
 Concen: 51.603 ug/L
 RT: 11.50 min Scan# 3238
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

Tgt Ion:146 Resp: 165101
 Ion Ratio Lower Upper
 146 100
 111 39.3 26.9 50.1
 148 64.1 44.7 83.1



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

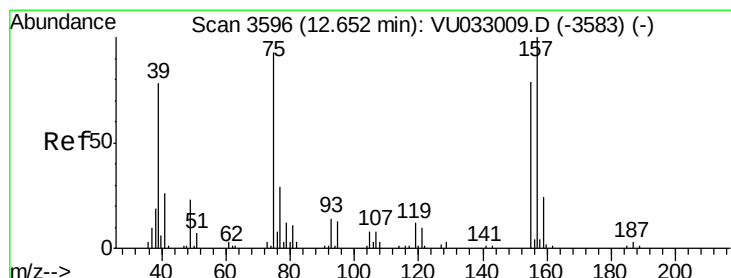
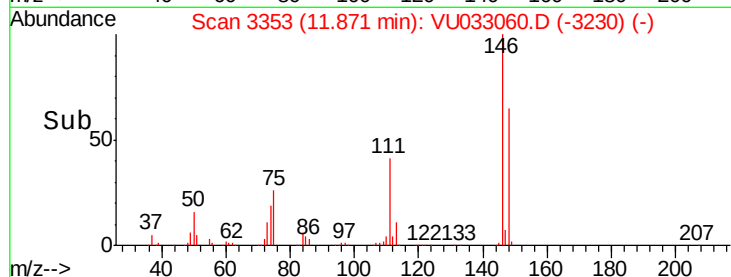
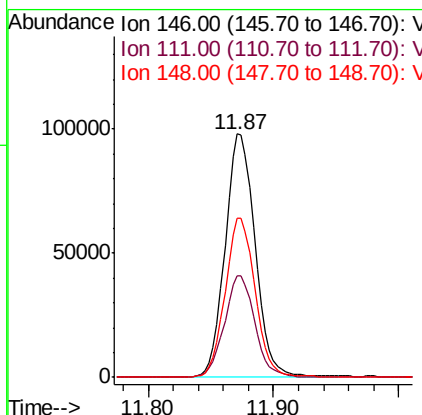
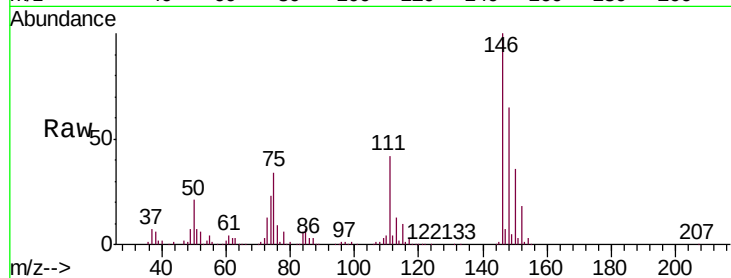




#65
 1,2-Dichlorobenzene
 Concen: 51.281 ug/L
 RT: 11.87 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

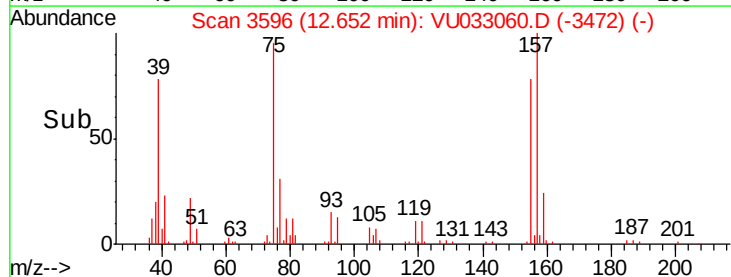
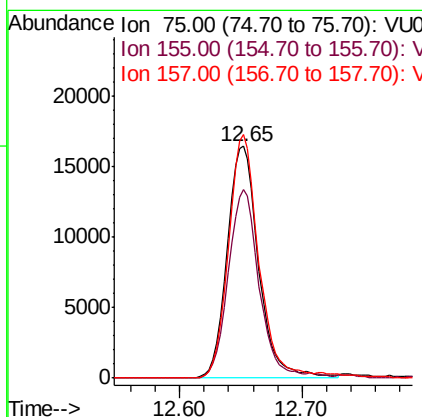
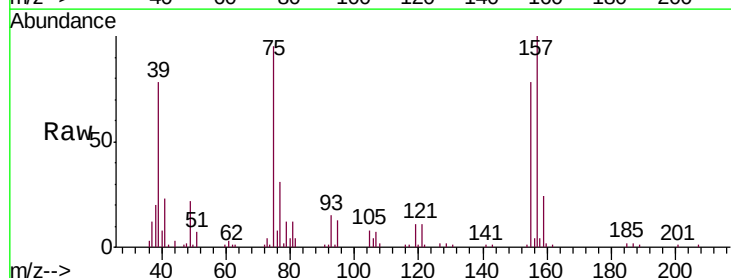
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

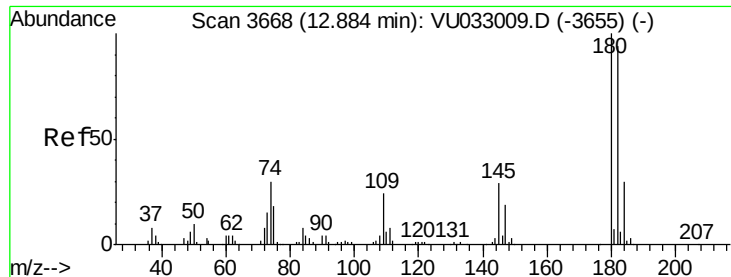
Tgt Ion: 146 Resp: 162191
 Ion Ratio Lower Upper
 146 100
 111 41.9 34.1 51.1
 148 65.3 52.0 78.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 49.114 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

Tgt Ion: 75 Resp: 29636
 Ion Ratio Lower Upper
 75 100
 155 81.6 67.4 101.2
 157 105.2 85.5 128.3

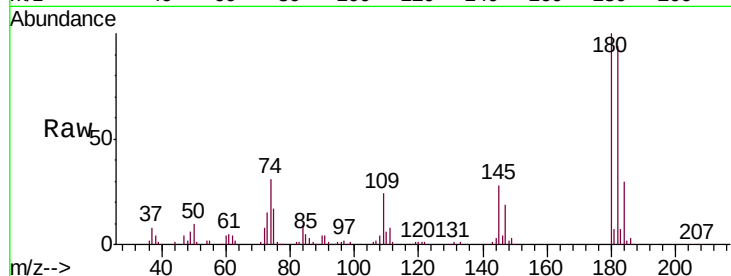




#67
 1,3,5-Trichlorobenzene
 Concen: 51.371 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	78.3	117.5
184	30.3	24.8	37.2
145	30.2	23.4	35.2



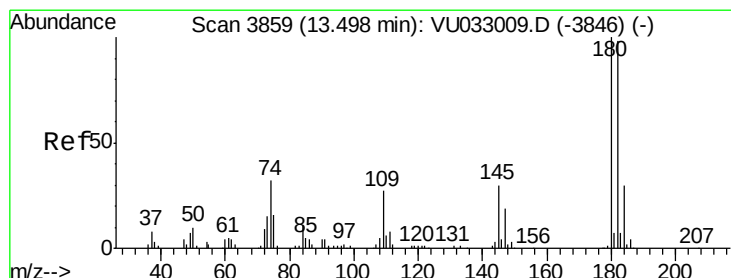
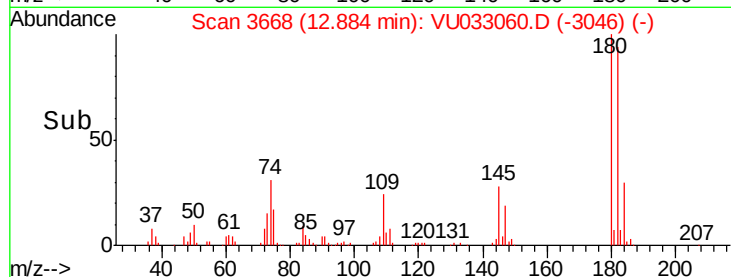
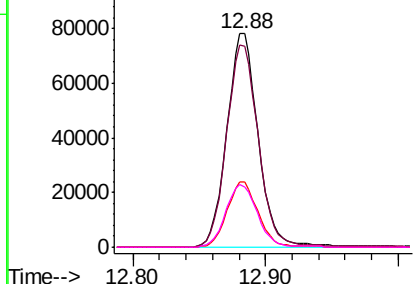
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

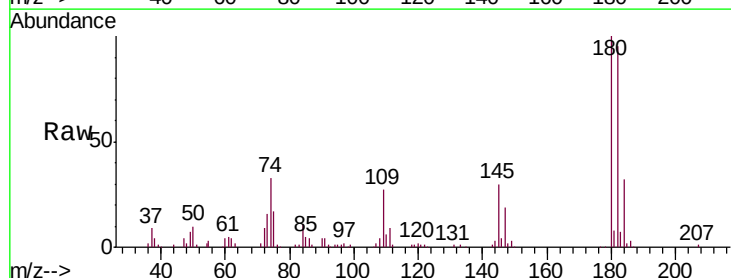
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 50.762 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU033060.D
 Acq: 27 Jun 2019 12:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.0	76.2	114.4
145	29.5	23.8	35.8

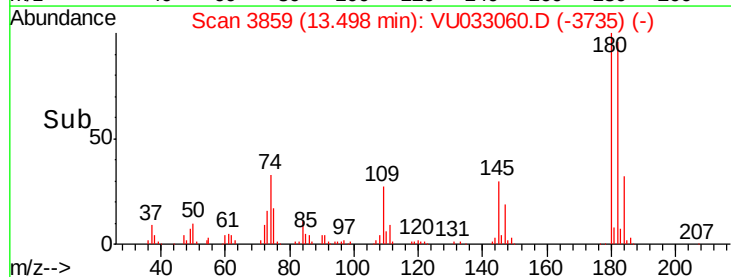
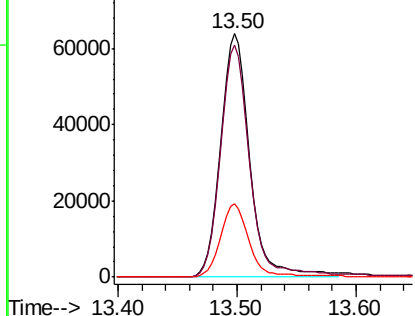


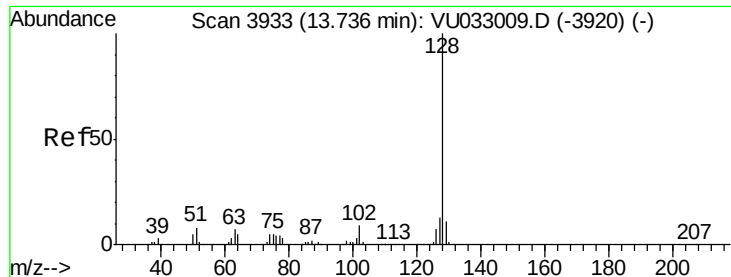
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 45.761 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

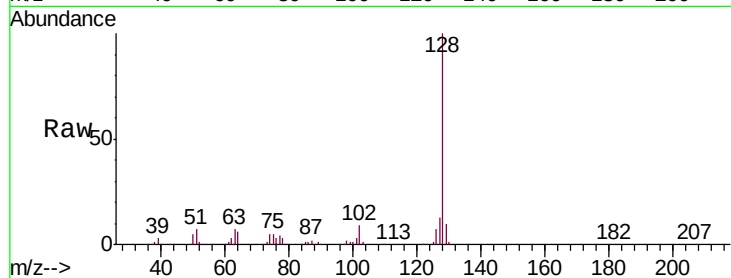
Tgt Ion:128 Resp: 301326

Ion Ratio Lower Upper

128 100

127 12.5 10.3 15.5

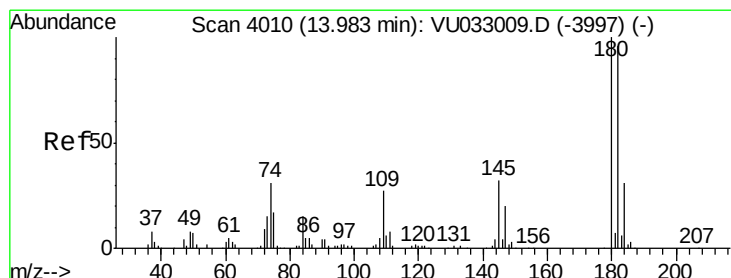
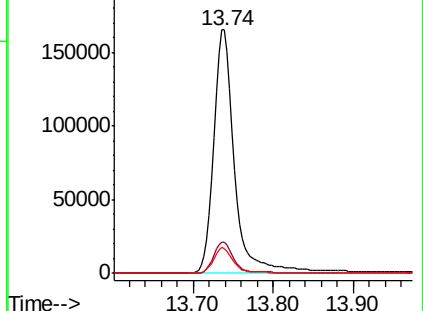
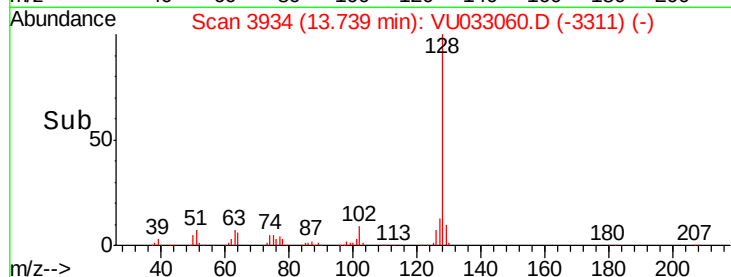
129 9.9 8.6 13.0



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: 50.008 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU033060.D

Acq: 27 Jun 2019 12:35

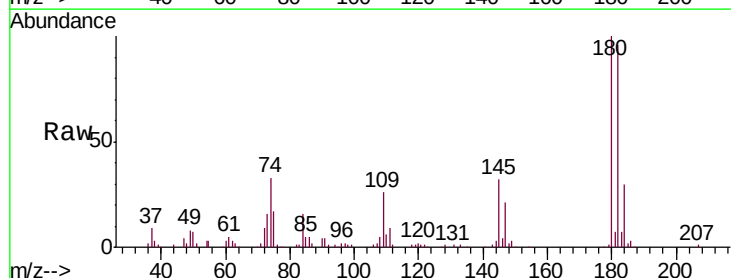
Tgt Ion:180 Resp: 113377

Ion Ratio Lower Upper

180 100

182 95.8 77.0 115.6

145 32.2 25.5 38.3



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

