

Data File : VU033068.D
Acq On : 28 Jun 2019 13:00
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

Quant Time: Jun 29 00:31:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR062719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jun 28 02:22:36 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	100766	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	100377	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	54064	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	29081	4.34	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.80%
7) Chloroethane-d5	1.68	69	25625	4.67	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.40%
11) 1,1-Dichloroethene-d2	2.27	63	66203	4.55	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.00%
20) 2-Butanone-d5	4.18	46	97658	47.96	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.92%
24) Chloroform-d	4.64	84	64655	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.00%
26) 1,2-Dichloroethane-d4	5.30	65	35953	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.40%
32) Benzene-d6	5.33	84	117622	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	6.32	67	37513	4.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.80%
41) Toluene-d8	7.56	98	113520	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%
43) trans-1,3-Dichloropropene-	7.85	79	16941	5.01	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.20%
46) 2-Hexanone-d5	8.31	63	70465	50.15	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.30%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	33480	4.80	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.00%
64) 1,2-Dichlorobenzene-d4	11.85	152	47571	4.65	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	47932	4.621 ug/L	99
3) Chloromethane	1.32	50	43909	4.494 ug/L	98
5) Vinyl chloride	1.40	62	44771	4.542 ug/L	99
6) Bromomethane	1.62	94	22669	4.388 ug/L	99
8) Chloroethane	1.69	64	26425	4.628 ug/L	100
9) Trichlorofluoromethane	1.88	101	65964	4.722 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	33565	4.643 ug/L	99
12) 1,1-Dichloroethene	2.28	96	30686	4.575 ug/L	92
13) Acetone	2.32	43	77074	44.917 ug/L	99
14) Carbon disulfide	2.47	76	101242	4.537 ug/L	100
15) Methyl Acetate	2.61	43	18397	4.635 ug/L	99
16) Methylene chloride	2.69	84	34765	4.520 ug/L	95
17) Methyl tert-butyl Ether	3.00	73	87289	4.639 ug/L	100
18) trans-1,2-Dichloroethene	2.97	96	33542	4.569 ug/L	97
19) 1,1-Dichloroethane	3.43	63	66284	4.594 ug/L	98
21) 2-Butanone	4.27	43	112178	46.442 ug/L	97
22) cis-1,2-Dichloroethene	4.21	96	37524	4.705 ug/L	100

Data File : VU033068.D
Acq On : 28 Jun 2019 13:00
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

Quant Time: Jun 29 00:31:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR062719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jun 28 02:22:36 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	17244	4.873	ug/L	97
25) Chloroform	4.66	83	68990	4.705	ug/L	96
27) 1,2-Dichloroethane	5.40	62	48413	4.821	ug/L	98
29) 1,1,1-Trichloroethane	4.90	97	60081	4.711	ug/L	99
30) Cyclohexane	4.98	56	56494	4.781	ug/L	99
31) Carbon tetrachloride	5.12	117	54394	4.688	ug/L	97
33) Benzene	5.38	78	140928	4.762	ug/L	100
34) Trichloroethene	6.18	95	40217	4.963	ug/L	95
35) Methylcyclohexane	6.40	83	58891	4.881	ug/L	96
37) 1,2-Dichloropropane	6.43	63	38661	4.872	ug/L	97
38) Bromodichloromethane	6.75	83	50134	4.791	ug/L	100
39) cis-1,3-Dichloropropene	7.26	75	57797	4.995	ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	266950	48.804	ug/L	99
42) Toluene	7.63	91	154999	4.903	ug/L	98
44) trans-1,3-Dichloropropene	7.87	75	46477	4.928	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	26422	4.748	ug/L	97
47) Tetrachloroethene	8.22	164	31782	4.875	ug/L	98
48) 2-Hexanone	8.36	43	192306	49.130	ug/L	99
49) Dibromochloromethane	8.47	129	33653	4.766	ug/L	98
50) 1,2-Dibromoethane	8.58	107	26035	4.799	ug/L #	95
51) Chlorobenzene	9.11	112	98985	4.740	ug/L	98
52) Ethylbenzene	9.24	91	166278	4.778	ug/L	98
53) m,p-Xylene	9.37	106	61612	4.878	ug/L	98
54) o-Xylene	9.77	106	61270	4.977	ug/L	98
55) Styrene	9.79	104	103996	4.990	ug/L	99
56) Isopropylbenzene	10.16	105	163721	4.899	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	33850	4.689	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	24531	4.619	ug/L	96
61) Bromoform	9.95	173	19449	4.726	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	81442	4.817	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	82604	4.683	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	78464	4.785	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	5774	5.120	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	67551	5.013	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	52481	5.450	ug/L	98
69) Naphthalene	13.74	128	70536	4.991	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	49693	5.263	ug/L	99

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

Data File : VU033068.D

Acq On : 28 Jun 2019 13:00

Operator : JC/SP

Sample : VSTDCCC005

Misc : 25.0mL/MSVOA U/WATER

```
ALS Vial      : 2      Sample Multiplier: 1
```

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

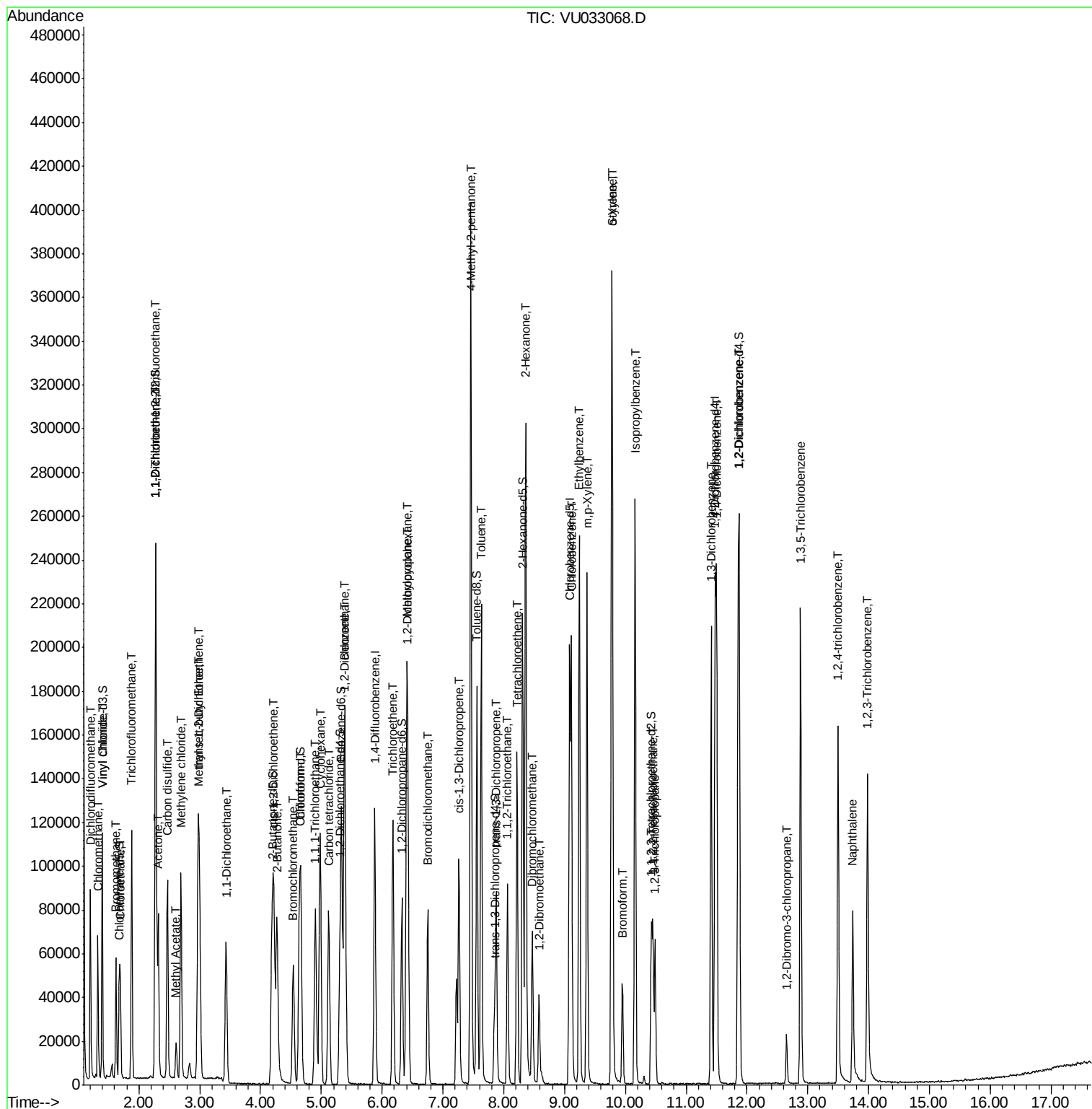
Quant Time: Jun 29 00:31:23 2019

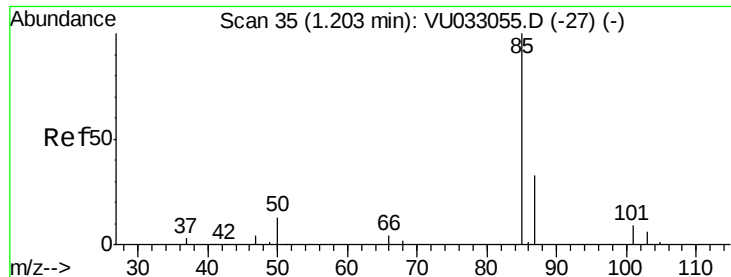
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMUTR062719WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Jun 28 02:22:36 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.621 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

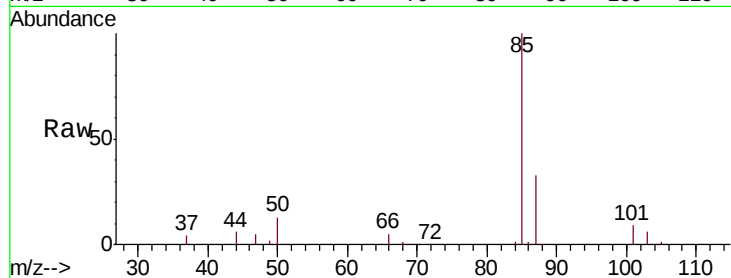
VSTD00507

Tgt Ion: 85 Resp: 47932

Ion Ratio Lower Upper

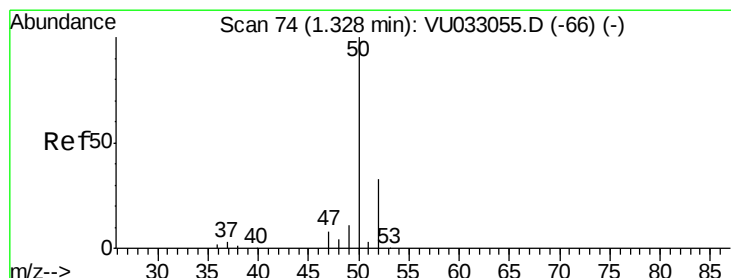
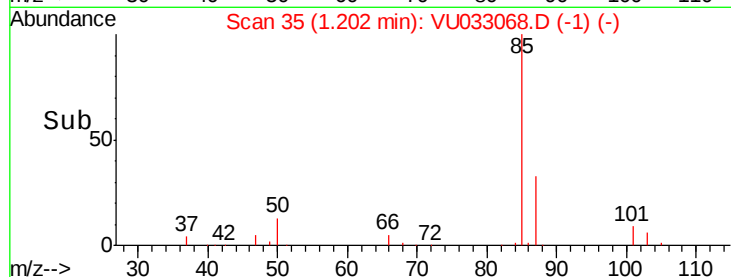
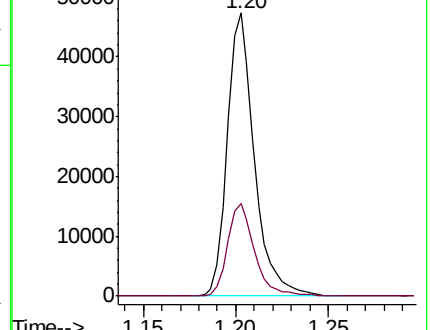
85 100

87 32.5 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU033055.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU033055.D (-27) (-)



#3

Chloromethane

Concen: 4.494 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU033068.D

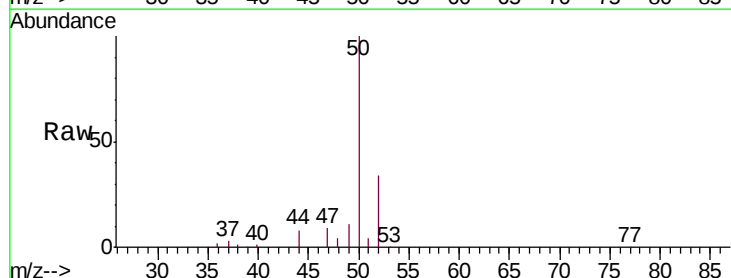
Acq: 28 Jun 2019 13:00

Tgt Ion: 50 Resp: 43909

Ion Ratio Lower Upper

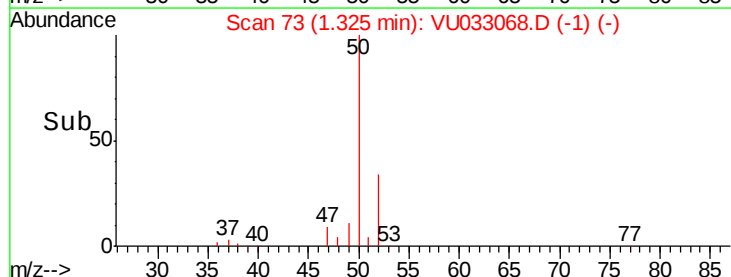
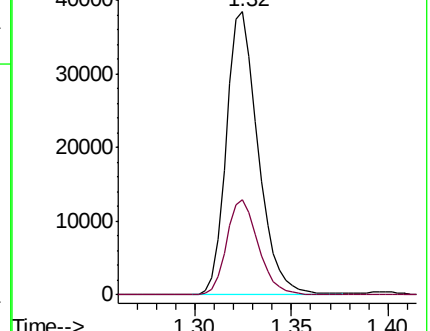
50 100

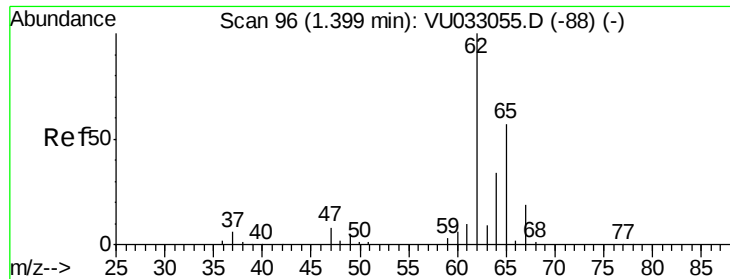
52 33.6 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU033055.D (-66) (-)

Ion 52.05 (51.75 to 52.75): VU033055.D (-66) (-)





#5

Vinyl chloride

Concen: 4.542 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

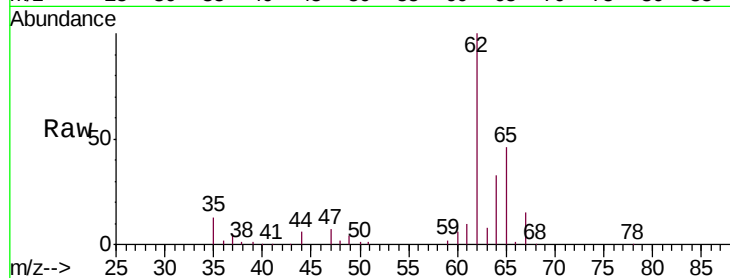
VSTD00507

Tgt Ion: 62 Resp: 44771

Ion Ratio Lower Upper

62 100

64 33.1 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU033055.D (-88) (-)

Ion 64.10 (63.80 to 64.80): VU033068.D (-73) (-)

1.40

40000

30000

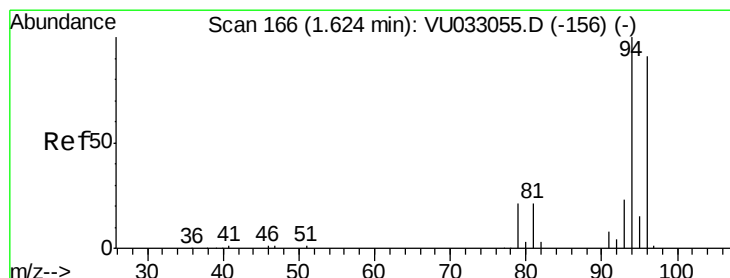
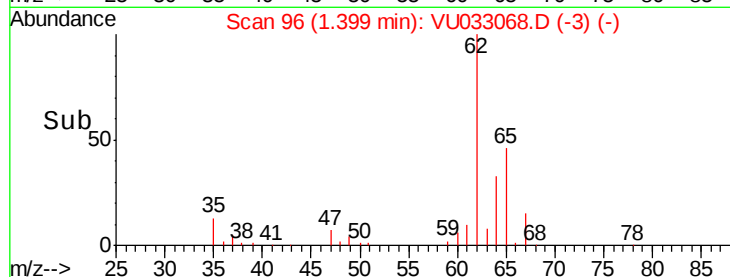
20000

10000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 4.388 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU033068.D

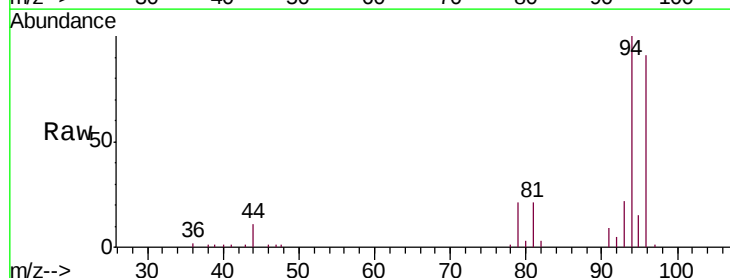
Acq: 28 Jun 2019 13:00

Tgt Ion: 94 Resp: 22669

Ion Ratio Lower Upper

94 100

96 90.5 64.0 119.0



Abundance Ion 94.00 (93.70 to 94.70): VU033055.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU033068.D (-73) (-)

1.62

20000

15000

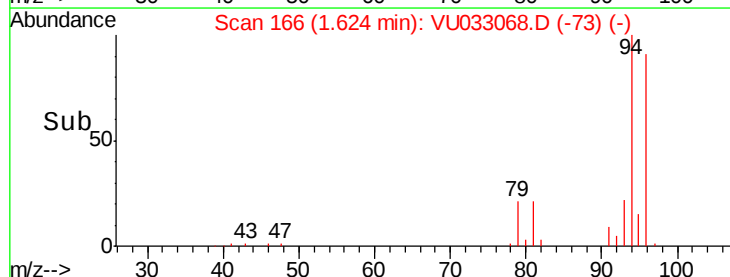
10000

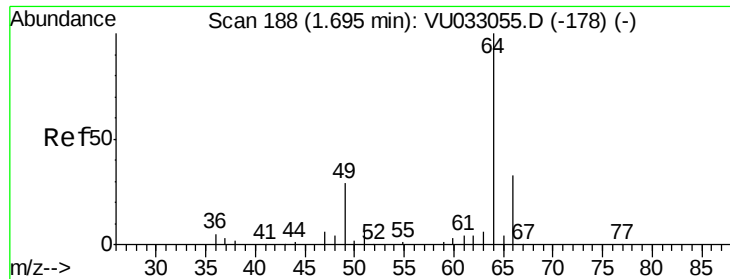
5000

0

1.55 1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 4.628 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

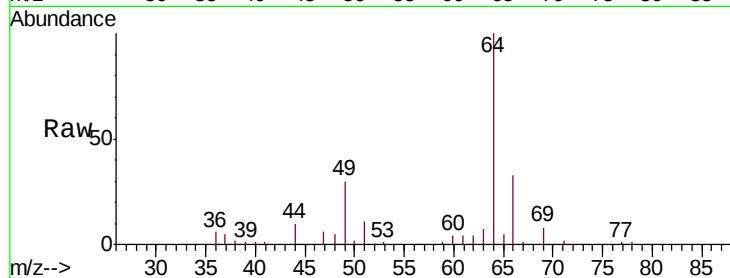
VSTD00507

Tgt Ion: 64 Resp: 26425

Ion Ratio Lower Upper

64 100

66 32.6 22.9 42.5



Abundance Ion 64.10 (63.80 to 64.80): VU033055.D (-178) (-)

Ion 66.05 (65.75 to 66.75): VU033068.D (-95) (-)

1.69

25000

20000

15000

10000

5000

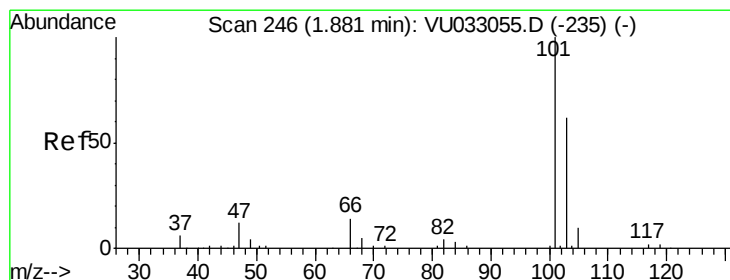
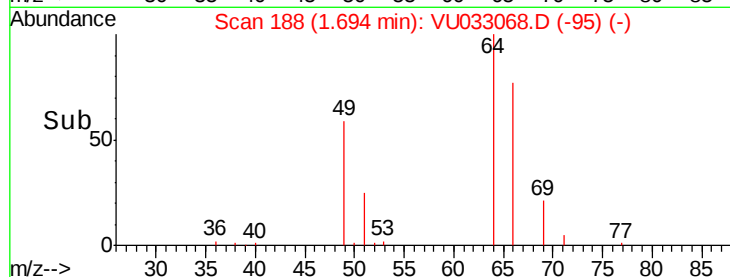
0

1.65

1.70

1.75

Time-->



#9

Trichlorofluoromethane

Concen: 4.722 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU033068.D

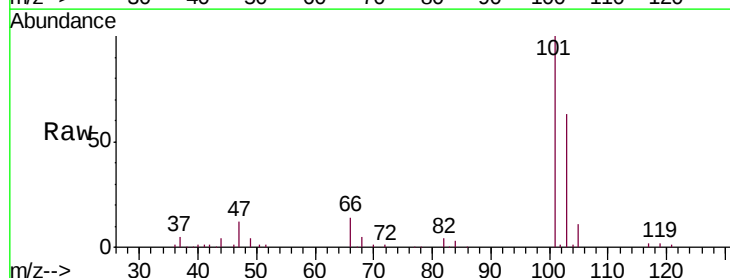
Acq: 28 Jun 2019 13:00

Tgt Ion: 101 Resp: 65964

Ion Ratio Lower Upper

101 100

103 63.9 50.1 75.1



Abundance Ion 101.00 (100.70 to 101.70): VU033055.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU033068.D (-153) (-)

1.88

50000

40000

30000

20000

10000

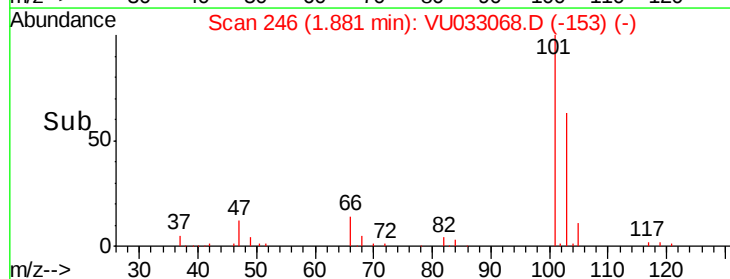
0

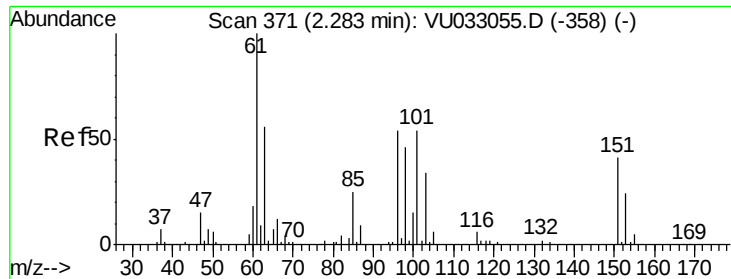
1.85

1.90

1.95

Time-->





#10

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

Concen: 4.643 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

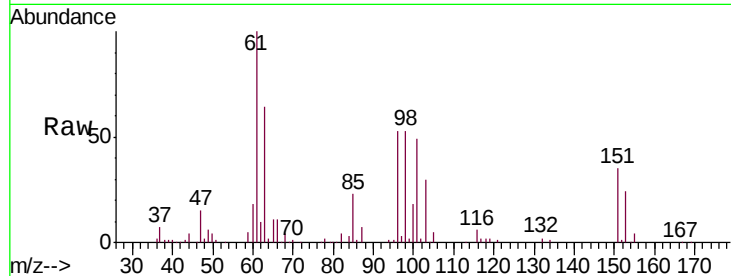
Tgt Ion:101 Resp: 33565

Ion Ratio Lower Upper

101 100

85 48.5 37.1 55.7

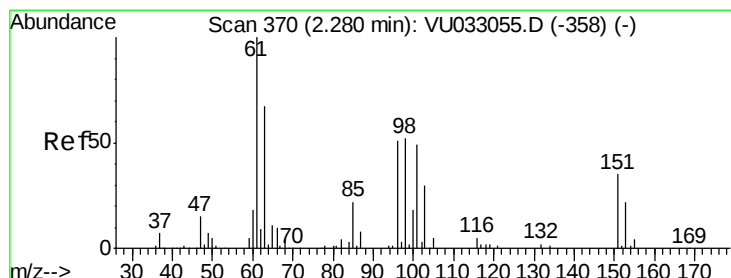
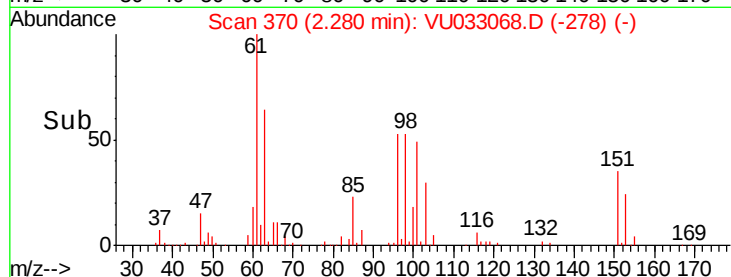
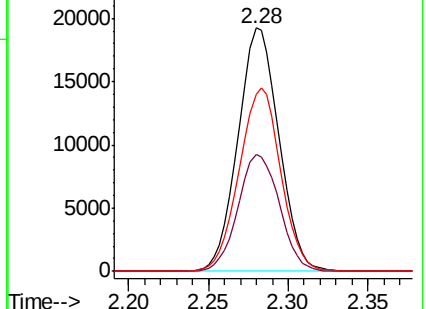
151 76.4 61.0 91.4



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: 4.575 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

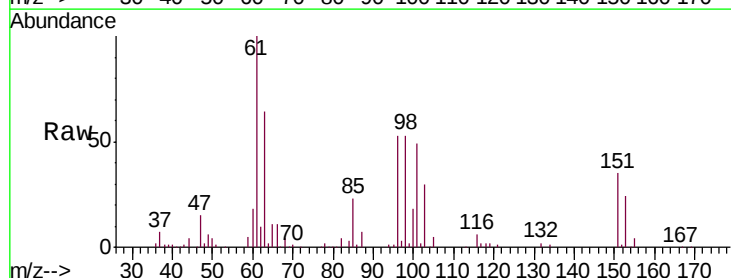
Tgt Ion: 96 Resp: 30686

Ion Ratio Lower Upper

96 100

61 188.4 137.6 255.6

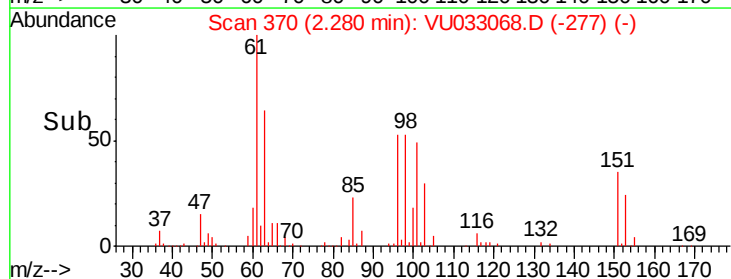
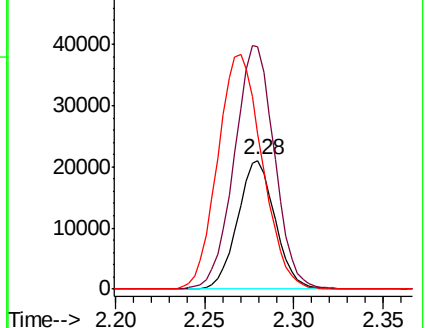
63 120.5 94.4 175.2

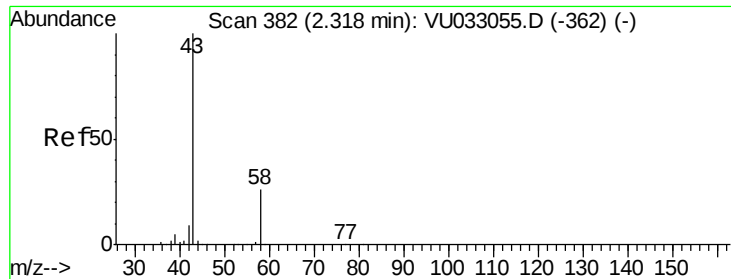


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 44.917 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

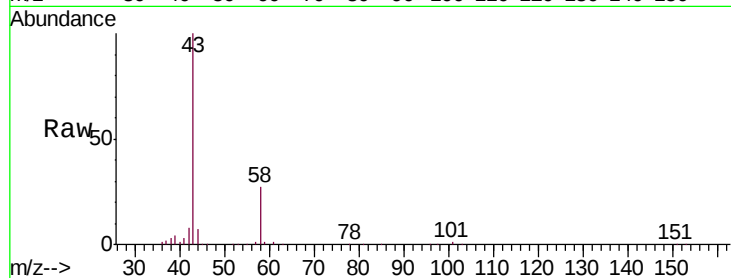
VSTD00507

Tgt Ion: 43 Resp: 77074

Ion Ratio Lower Upper

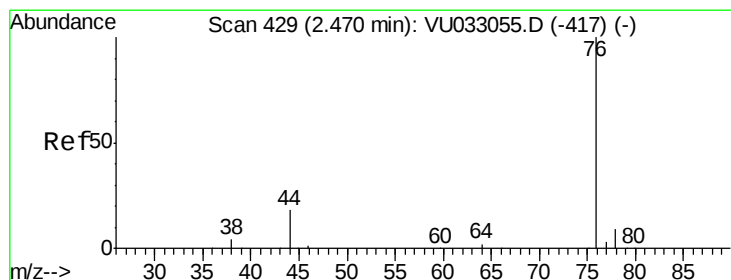
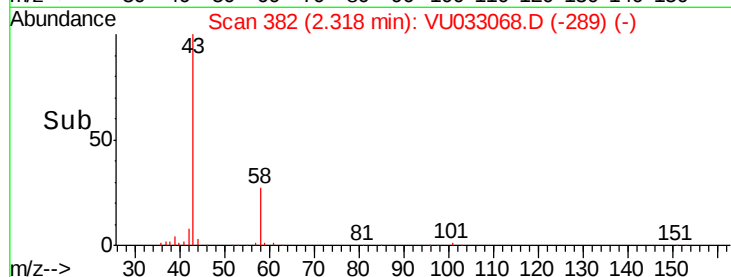
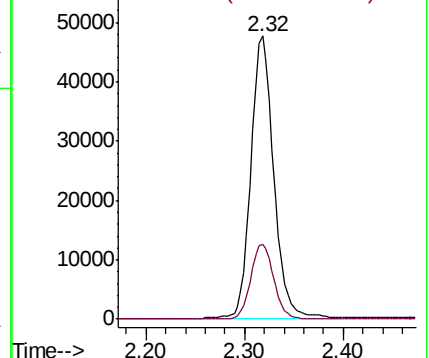
43 100

58 26.4 0.0 51.8



Abundance Ion 43.05 (42.75 to 43.75): VU033055.D (-362) (-)

Ion 58.05 (57.75 to 58.75): VU033055.D (-362) (-)



#14

Carbon disulfide

Concen: 4.537 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU033068.D

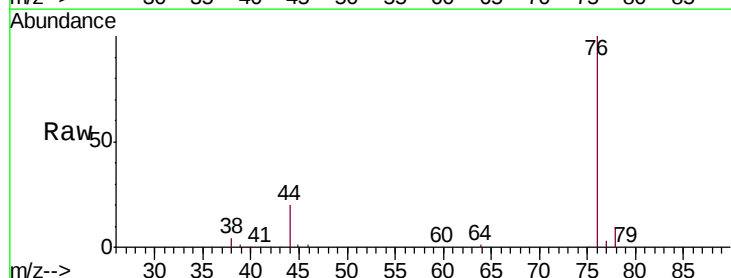
Acq: 28 Jun 2019 13:00

Tgt Ion: 76 Resp: 101242

Ion Ratio Lower Upper

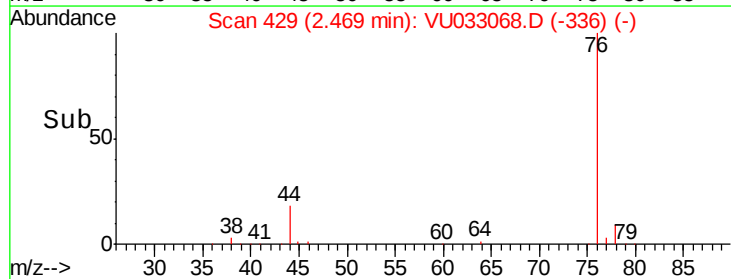
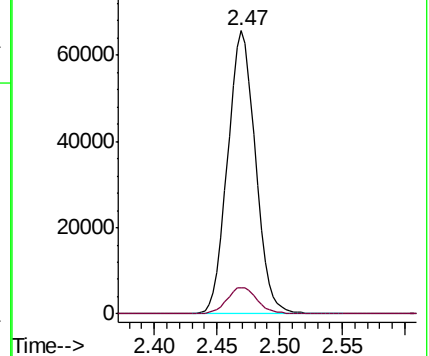
76 100

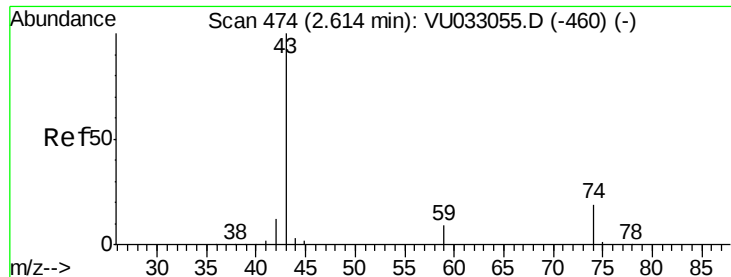
78 9.3 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VU033055.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU033055.D (-417) (-)





#15

Methyl Acetate

Concen: 4.635 ug/L

RT: 2.61 min Scan# 473

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

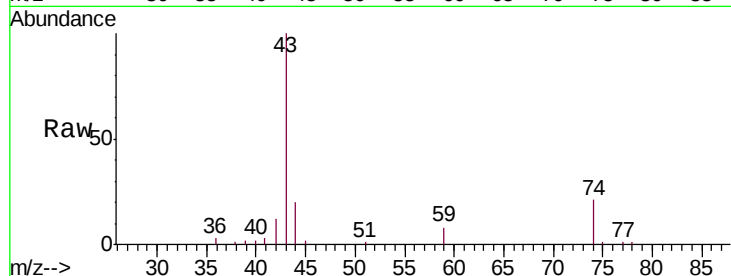
VSTD00507

Tgt Ion: 43 Resp: 18397

Ion Ratio Lower Upper

43 100

74 20.7 16.1 24.1



Abundance Ion 43.05 (42.75 to 43.75): VU033055.D (-460) (-)

Ion 74.05 (73.75 to 74.75): VU033055.D (-460) (-)

2.61

12000

10000

8000

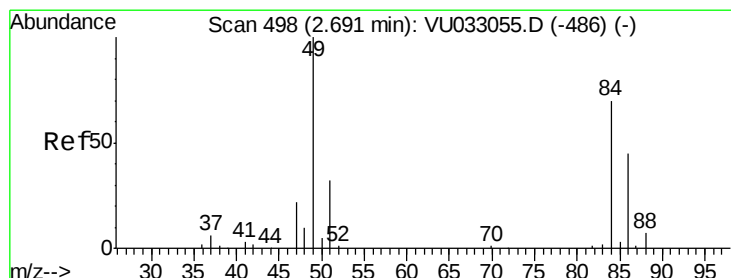
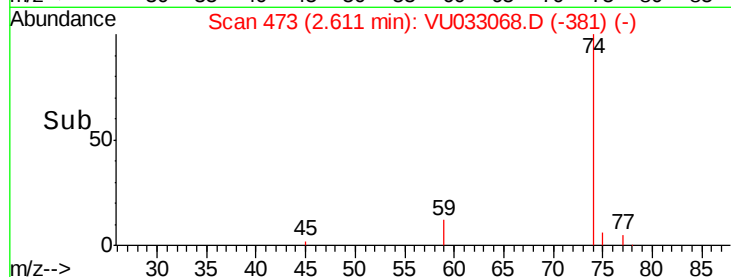
6000

4000

2000

0

Time-->



#16

Methylene chloride

Concen: 4.520 ug/L

RT: 2.69 min Scan# 498

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

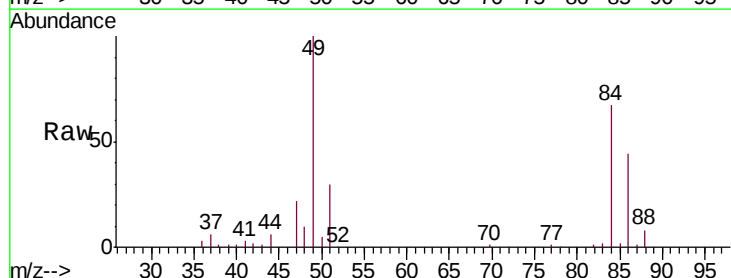
Tgt Ion: 84 Resp: 34765

Ion Ratio Lower Upper

84 100

86 66.2 44.7 82.9

49 149.5 99.7 185.1



Abundance Ion 84.05 (83.75 to 84.75): VU033055.D (-486) (-)

Ion 86.00 (85.70 to 86.70): VU033055.D (-486) (-)

Ion 49.10 (48.80 to 49.80): VU033055.D (-486) (-)

2.69

40000

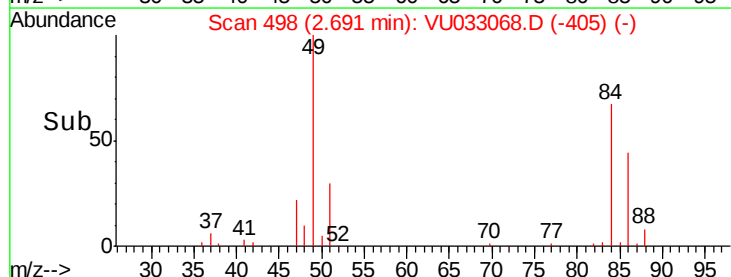
30000

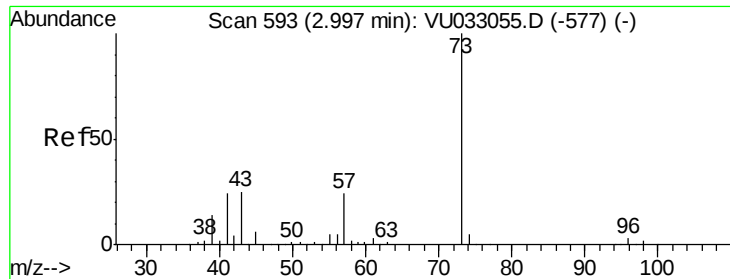
20000

10000

0

Time-->

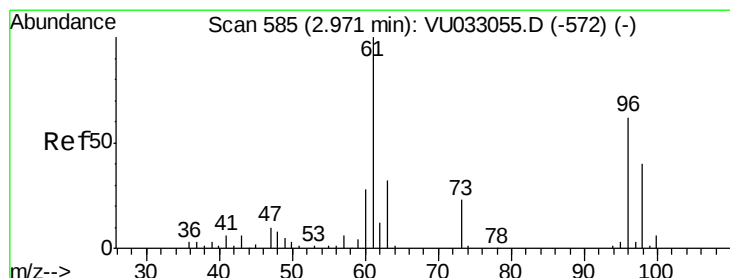
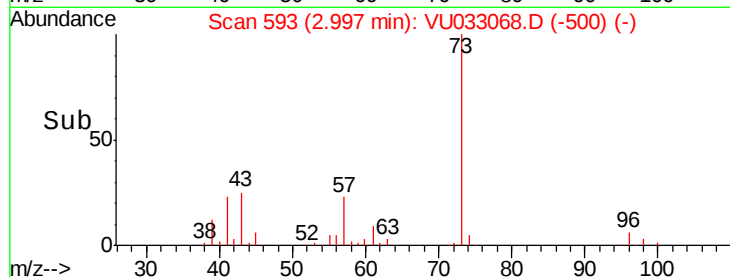
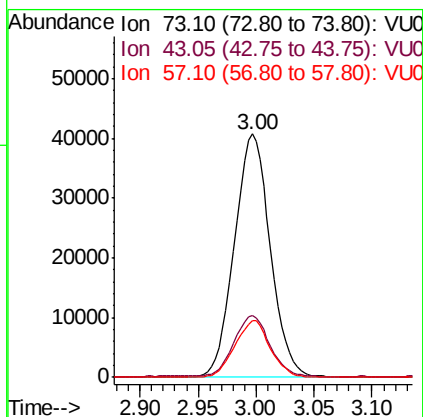
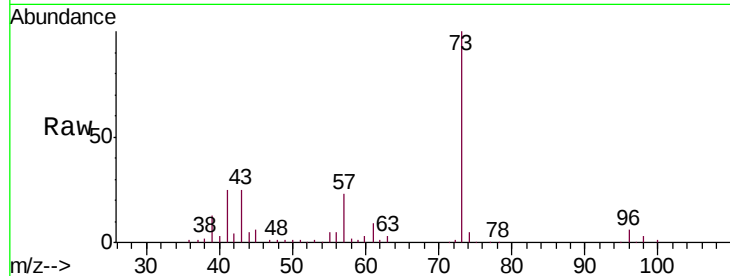




#17
Methyl tert-butyl Ether
Concen: 4.639 ug/L
RT: 3.00 min Scan# 593
Delta R.T. -0.00 min
Lab File: VU033068.D
Acq: 28 Jun 2019 13:00

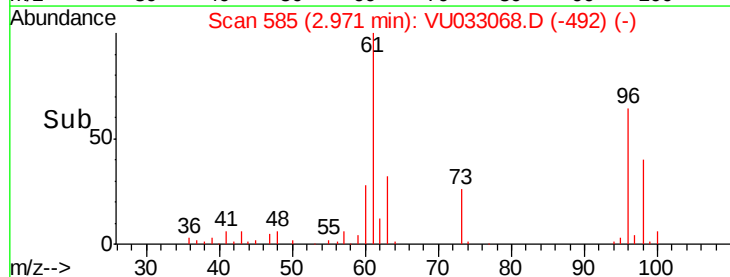
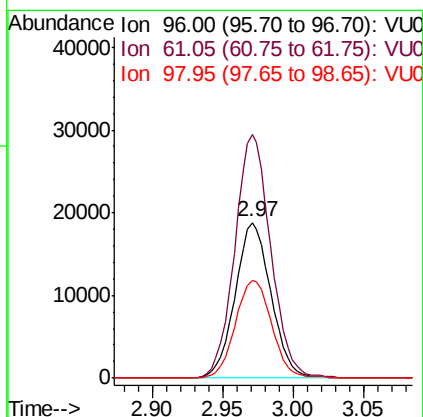
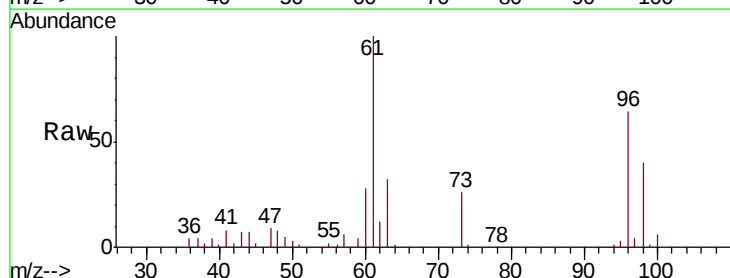
Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

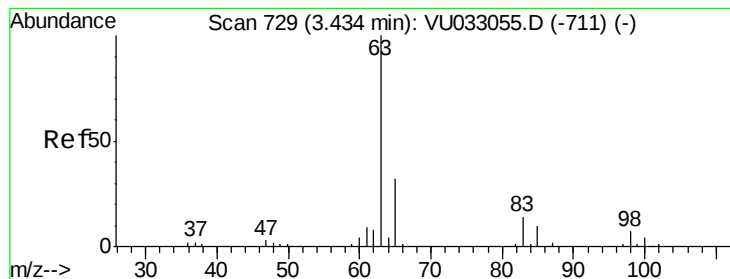
Tgt Ion: 73 Resp: 87289
Ion Ratio Lower Upper
73 100
43 25.2 20.2 30.2
57 22.9 18.5 27.7



#18
trans-1,2-Dichloroethene
Concen: 4.569 ug/L
RT: 2.97 min Scan# 585
Delta R.T. -0.00 min
Lab File: VU033068.D
Acq: 28 Jun 2019 13:00

Tgt Ion: 96 Resp: 33542
Ion Ratio Lower Upper
96 100
61 156.5 112.2 208.4
98 62.8 45.4 84.4





#19

1,1-Dichloroethane

Concen: 4.594 ug/L

RT: 3.43 min Scan# 729

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

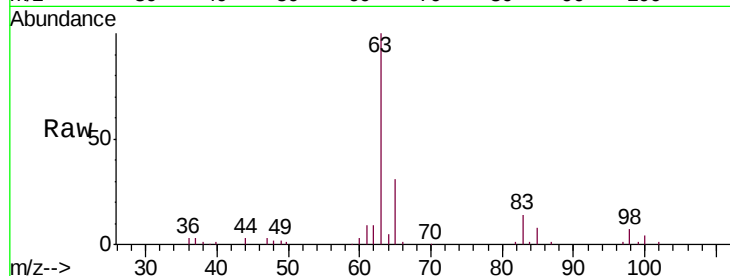
Tgt Ion: 63 Resp: 66284

Ion Ratio Lower Upper

63 100

65 30.6 22.7 42.1

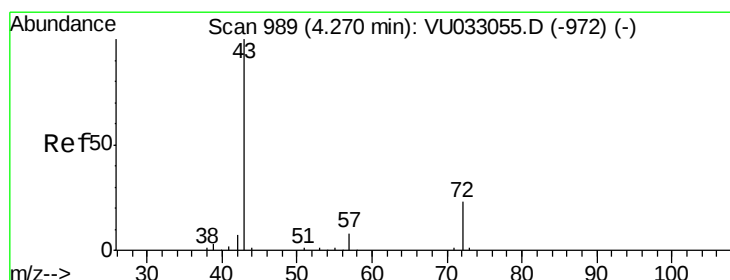
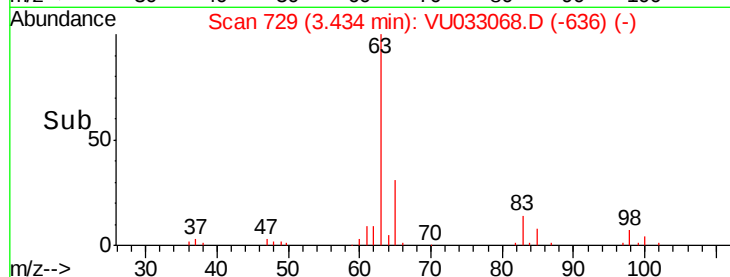
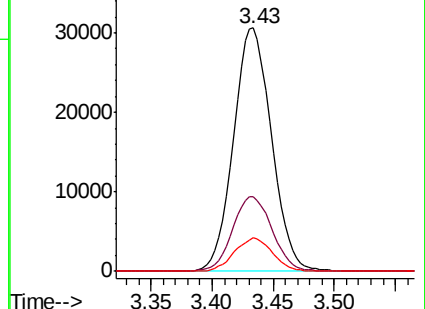
83 13.6 9.6 17.8



Abundance Ion 63.10 (62.80 to 63.80): VU033055.D (-711) (-)

Ion 65.10 (64.80 to 65.80): VU033055.D (-711) (-)

Ion 83.05 (82.75 to 83.75): VU033055.D (-711) (-)



#21

2-Butanone

Concen: 46.442 ug/L

RT: 4.27 min Scan# 989

Delta R.T. -0.00 min

Lab File: VU033068.D

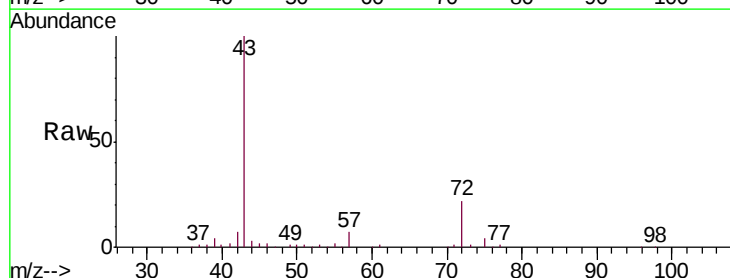
Acq: 28 Jun 2019 13:00

Tgt Ion: 43 Resp: 112178

Ion Ratio Lower Upper

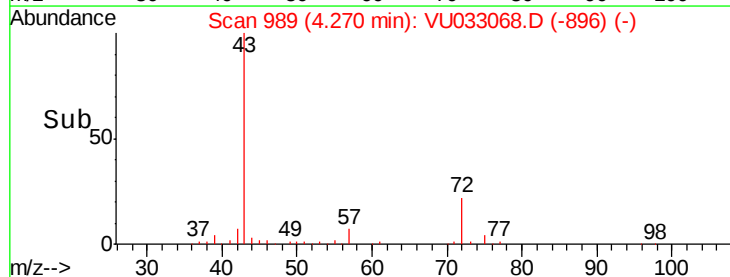
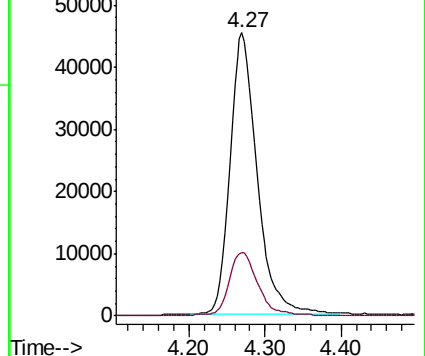
43 100

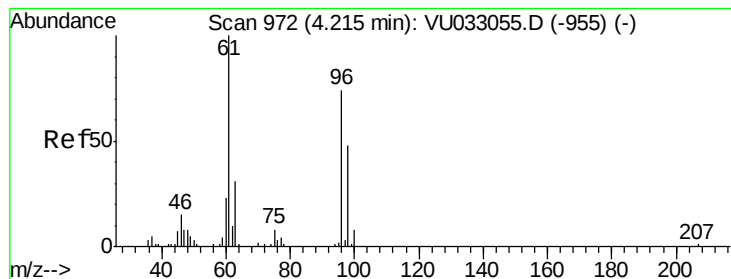
72 24.5 11.5 34.5



Abundance Ion 43.05 (42.75 to 43.75): VU033055.D (-972) (-)

Ion 72.10 (71.80 to 72.80): VU033055.D (-972) (-)



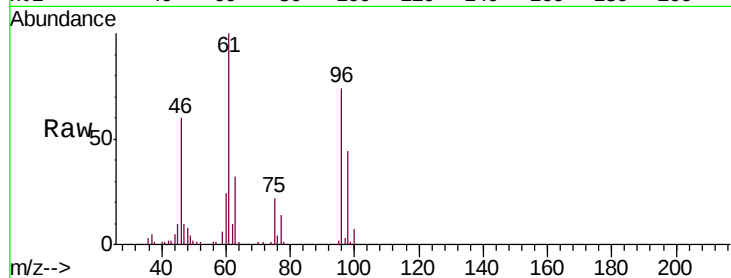


#22

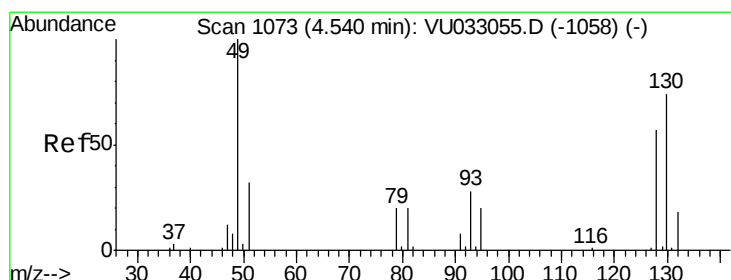
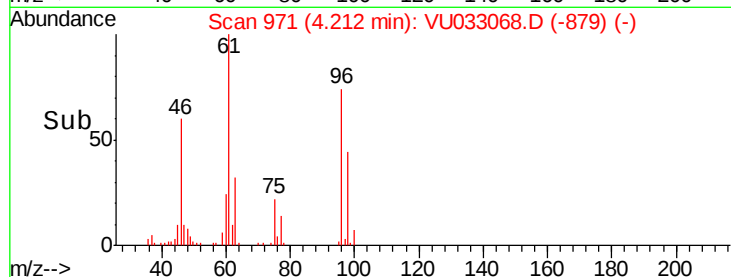
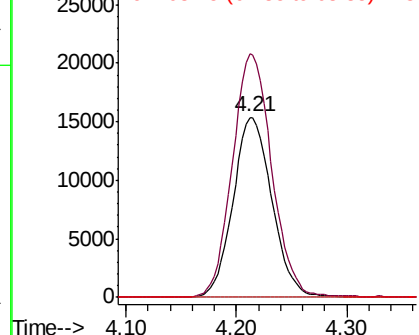
cis-1,2-Dichloroethene
Concen: 4.705 ug/L
RT: 4.21 min Scan# 971
Delta R.T. -0.00 min
Lab File: VU033068.D
Acq: 28 Jun 2019 13:00

Instrument :
MSVOA_U
ClientSampled :
VSTD00507

Tgt Ion: 96 Resp: 37524
Ion Ratio Lower Upper
96 100
61 135.2 94.6 175.8
68 0.0 0.0 0.0



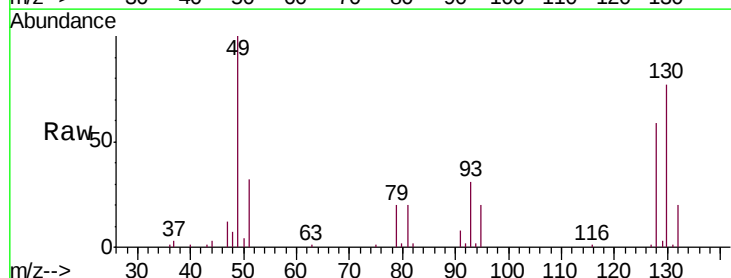
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



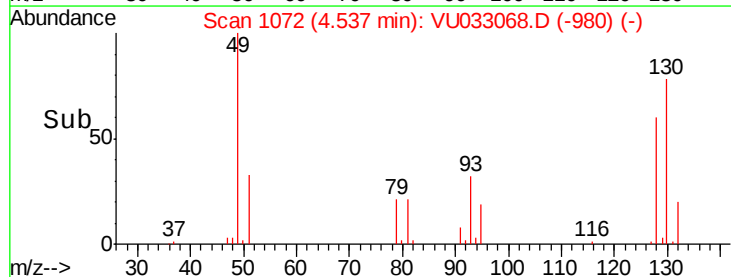
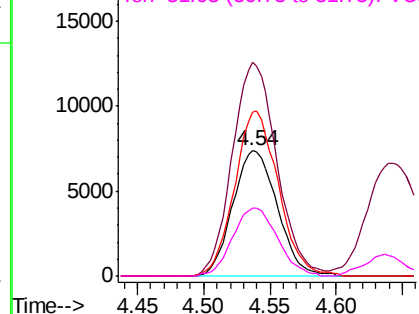
#23

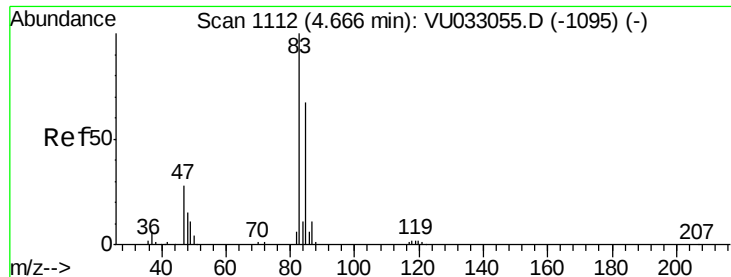
Bromochloromethane
Concen: 4.873 ug/L
RT: 4.54 min Scan# 1072
Delta R.T. -0.00 min
Lab File: VU033068.D
Acq: 28 Jun 2019 13:00

Tgt Ion: 128 Resp: 17244
Ion Ratio Lower Upper
128 100
49 170.3 123.3 228.9
130 130.8 90.9 168.7
51 54.5 45.6 68.4



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0





#25

Chloroform

Concen: 4.705 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

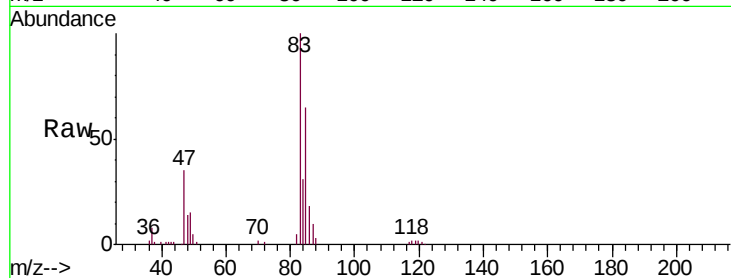
VSTD00507

Tgt Ion: 83 Resp: 68990

Ion Ratio Lower Upper

83 100

85 64.6 47.3 87.8

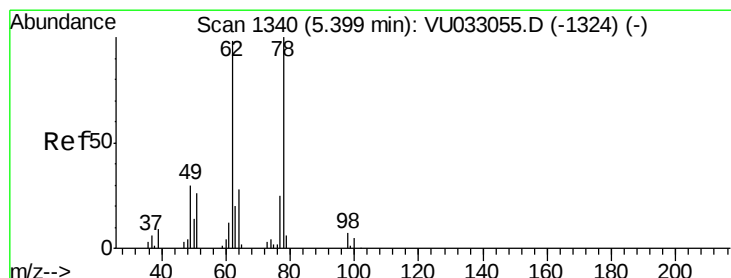
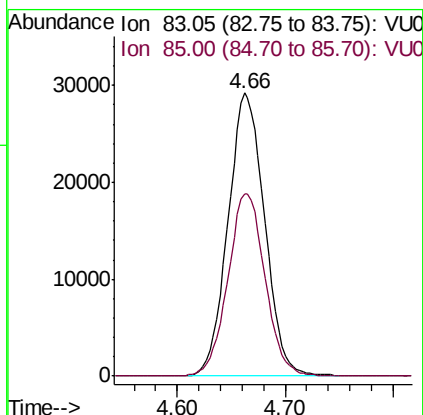
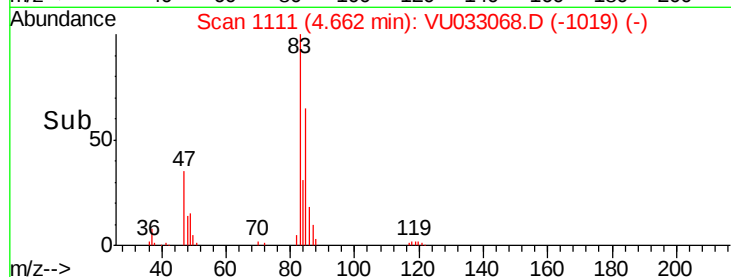


Abundance Ion 83.05 (82.75 to 83.75): VU033055.D (-1095) (-)

Ion 85.00 (84.70 to 85.70): VU033055.D (-1095) (-)

4.66

Time-->



#27

1,2-Dichloroethane

Concen: 4.821 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU033068.D

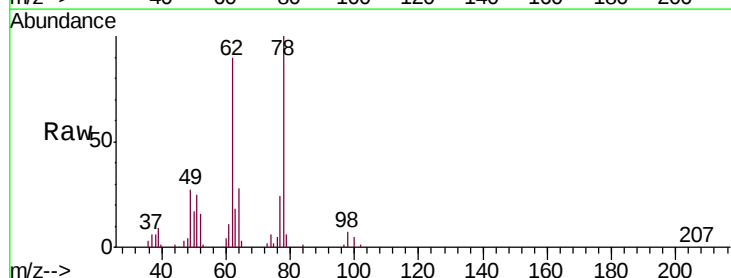
Acq: 28 Jun 2019 13:00

Tgt Ion: 62 Resp: 48413

Ion Ratio Lower Upper

62 100

98 7.8 5.8 8.6

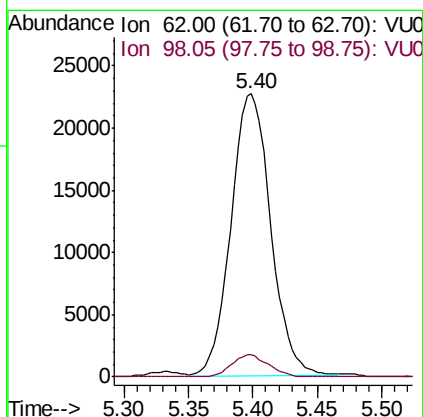
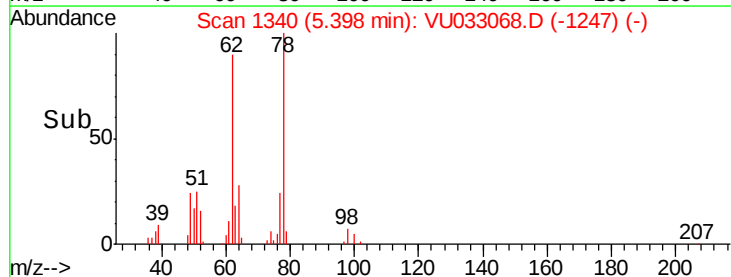


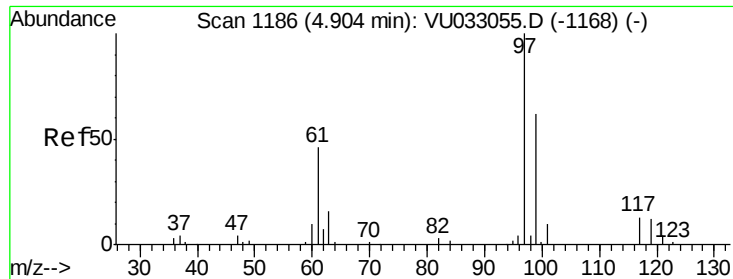
Abundance Ion 62.00 (61.70 to 62.70): VU033055.D (-1324) (-)

Ion 98.05 (97.75 to 98.75): VU033055.D (-1324) (-)

5.40

Time-->

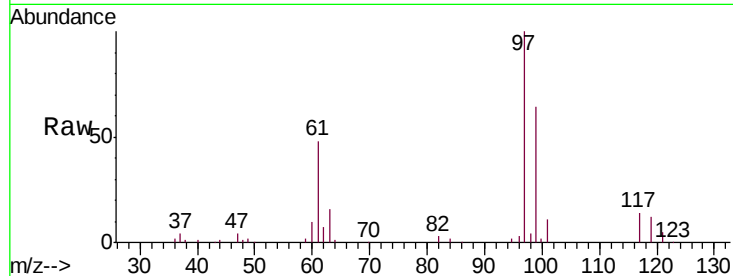




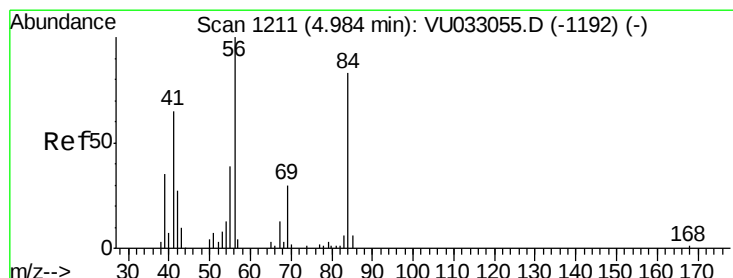
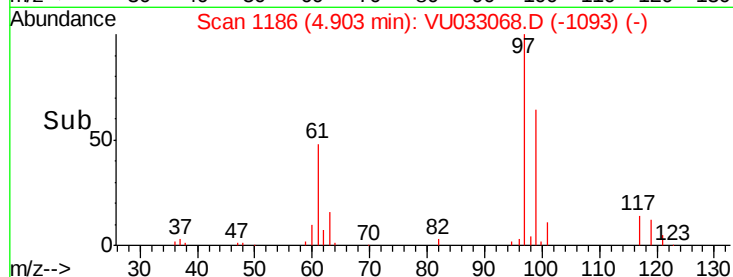
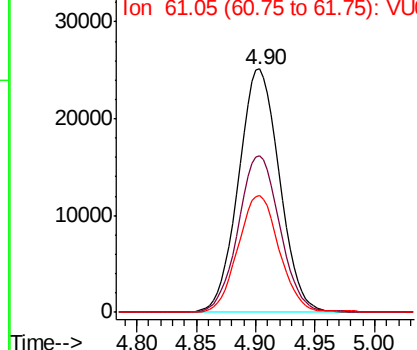
#29
 1,1,1-Trichloroethane
 Concen: 4.711 ug/L
 RT: 4.90 min Scan# 1186
 Delta R.T. -0.00 min
 Lab File: VU033068.D
 Acq: 28 Jun 2019 13:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

Tgt Ion: 97 Resp: 60081
 Ion Ratio Lower Upper
 97 100
 99 65.3 51.4 77.2
 61 48.2 38.1 57.1

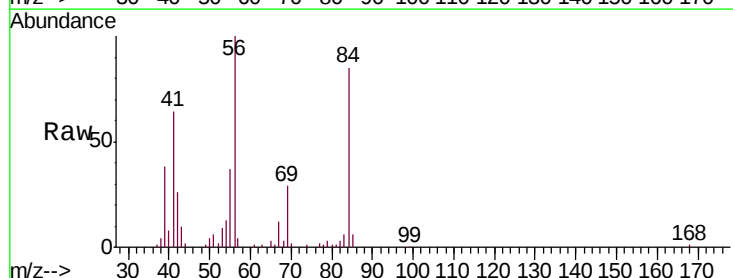


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

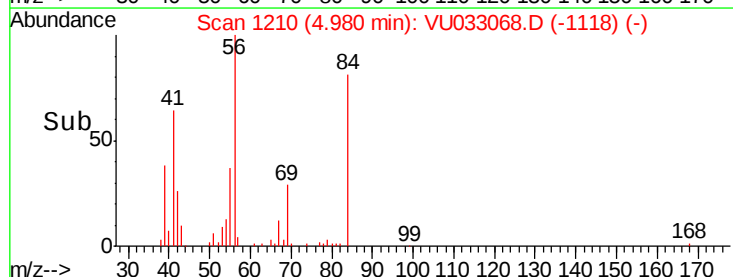
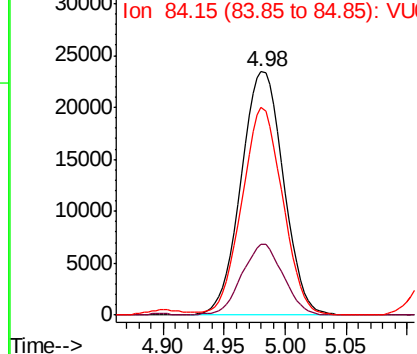


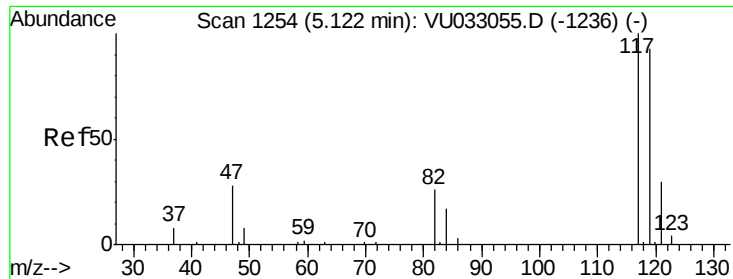
#30
 Cyclohexane
 Concen: 4.781 ug/L
 RT: 4.98 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VU033068.D
 Acq: 28 Jun 2019 13:00

Tgt Ion: 56 Resp: 56494
 Ion Ratio Lower Upper
 56 100
 69 28.3 23.7 35.5
 84 81.9 65.8 98.8



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.688 ug/L

RT: 5.12 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

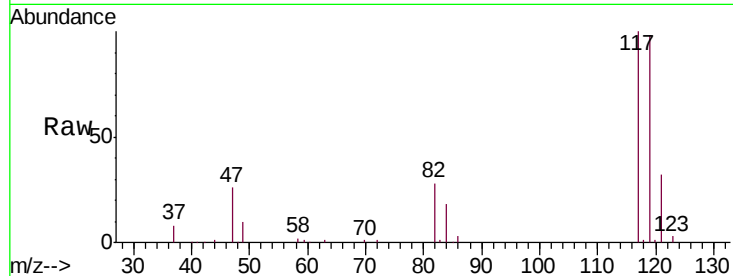
VSTD00507

Tgt Ion:117 Resp: 54394

Ion Ratio Lower Upper

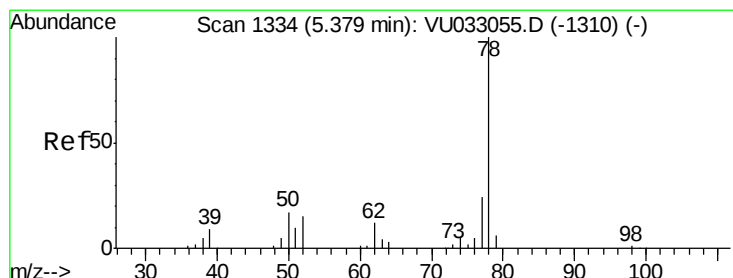
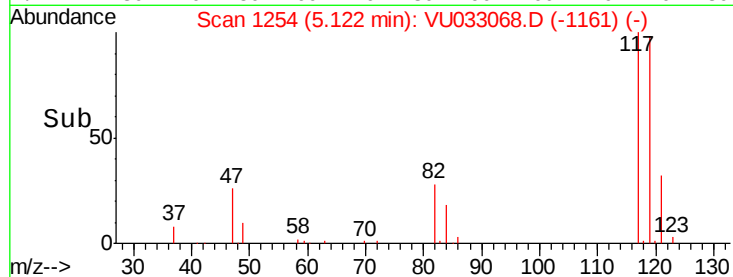
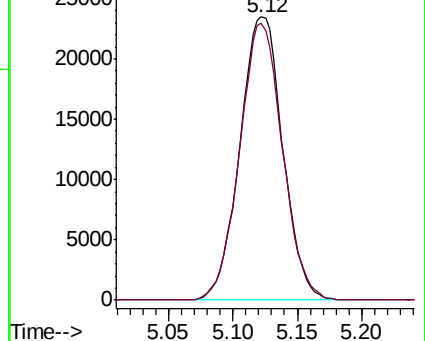
117 100

119 97.3 75.5 113.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.762 ug/L

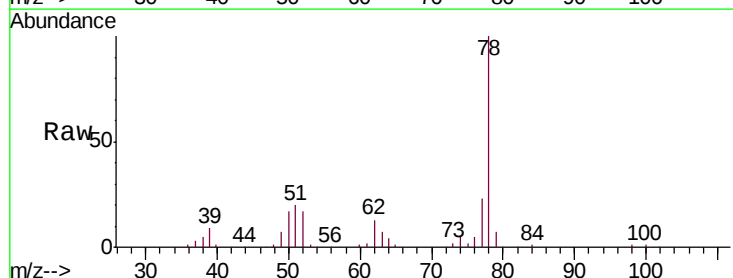
RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

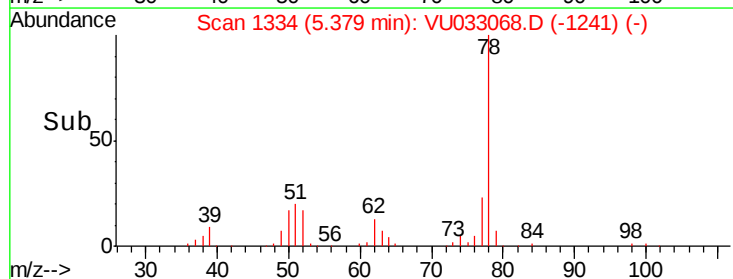
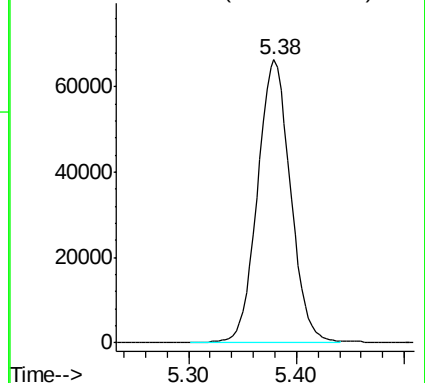
Lab File: VU033068.D

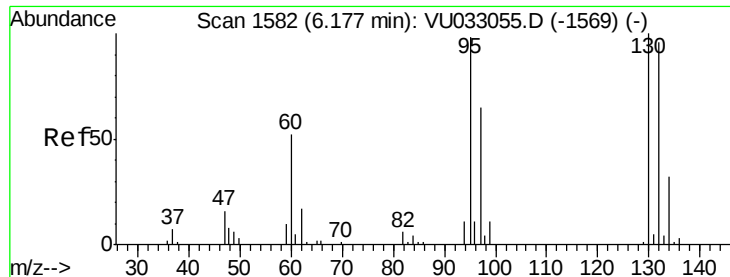
Acq: 28 Jun 2019 13:00

Tgt Ion: 78 Resp: 140928



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.963 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

Tgt Ion: 95 Resp: 40217

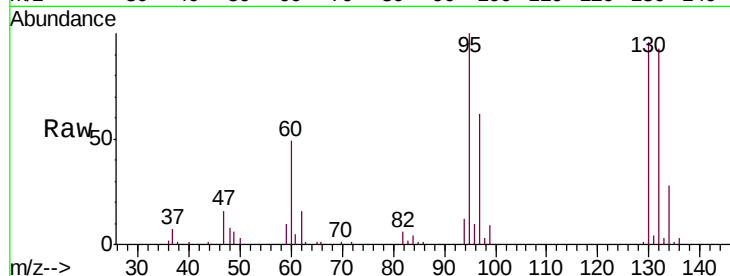
Ion Ratio Lower Upper

95 100

97 61.9 46.0 85.4

132 92.6 68.6 127.4

130 95.9 71.1 132.1

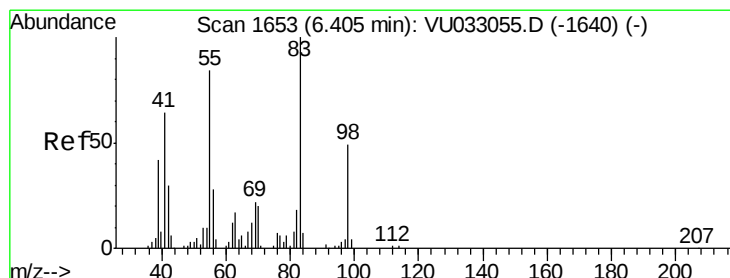
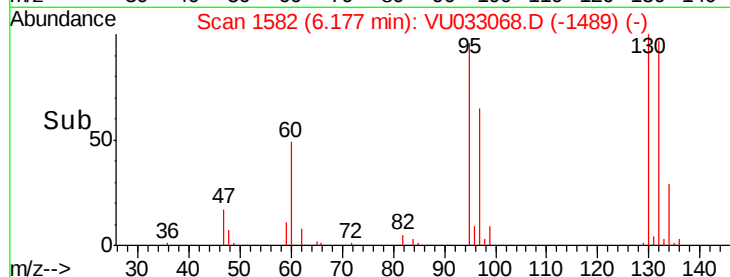
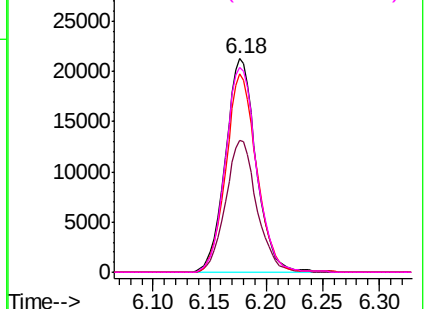


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.881 ug/L

RT: 6.40 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

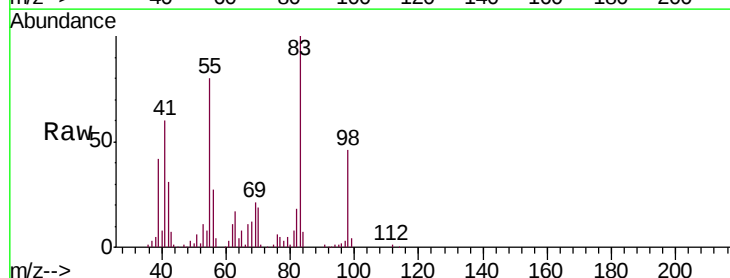
Tgt Ion: 83 Resp: 58891

Ion Ratio Lower Upper

83 100

55 79.3 67.0 100.4

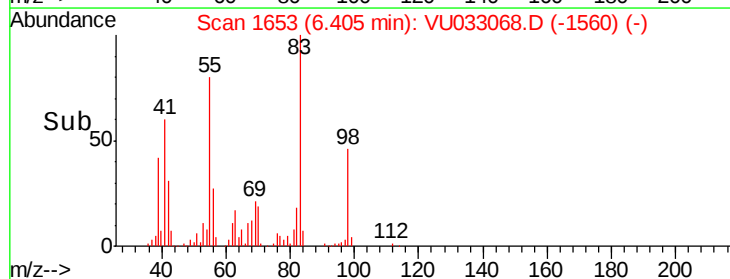
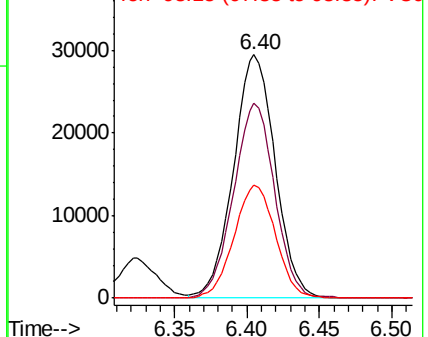
98 46.1 37.7 56.5

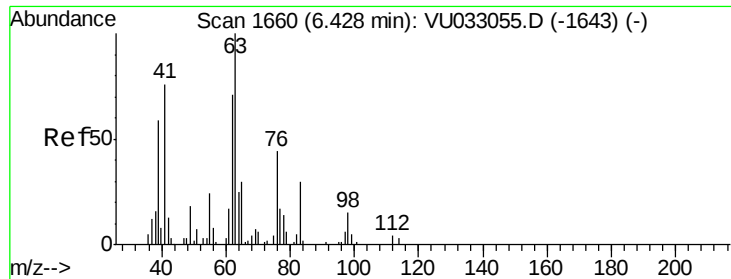


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.872 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

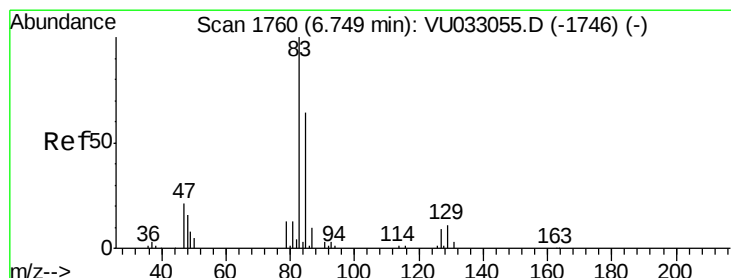
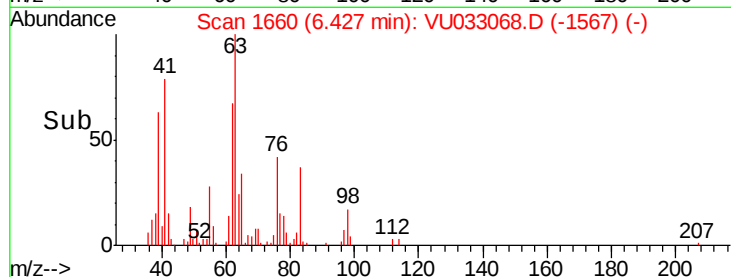
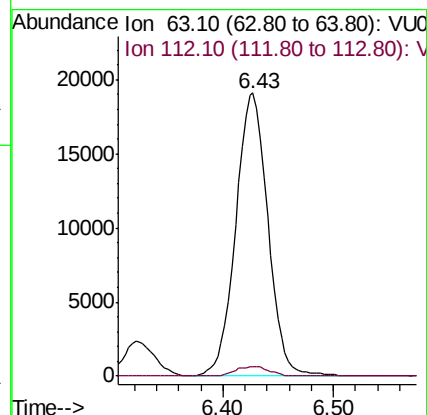
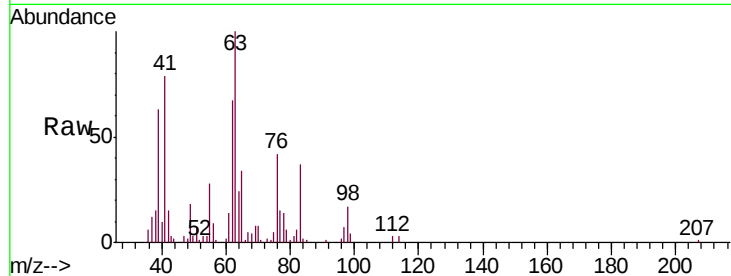
VSTD00507

Tgt Ion: 63 Resp: 38661

Ion Ratio Lower Upper

63 100

112 3.5 3.5 5.3



#38

Bromodichloromethane

Concen: 4.791 ug/L

RT: 6.75 min Scan# 1760

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

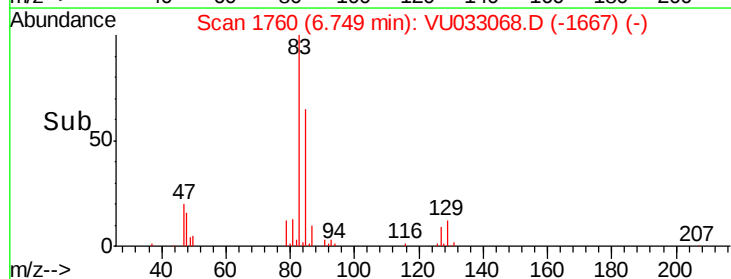
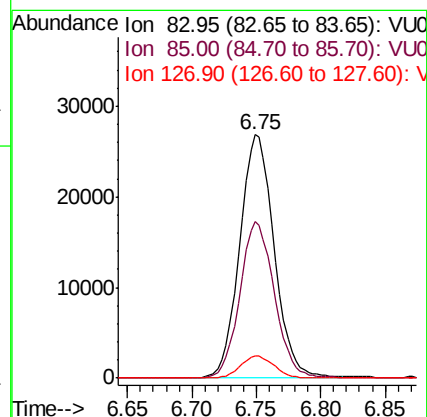
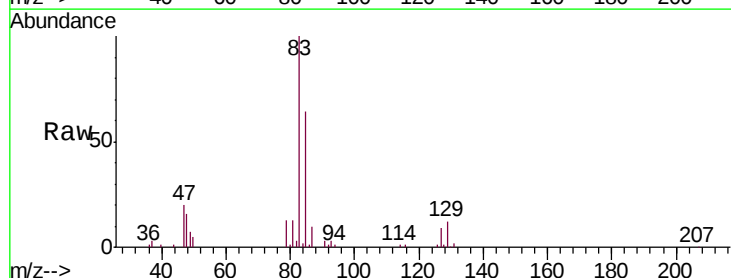
Tgt Ion: 83 Resp: 50134

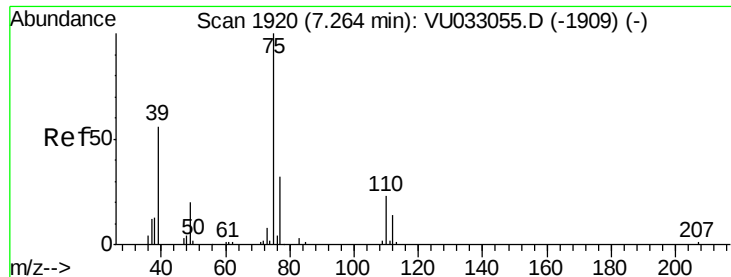
Ion Ratio Lower Upper

83 100

85 64.4 45.1 83.9

127 9.2 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 4.995 ug/L

RT: 7.26 min Scan# 1920

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

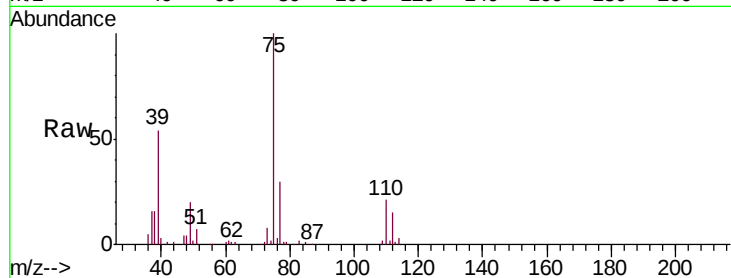
VSTD00507

Tgt Ion: 75 Resp: 57797

Ion Ratio Lower Upper

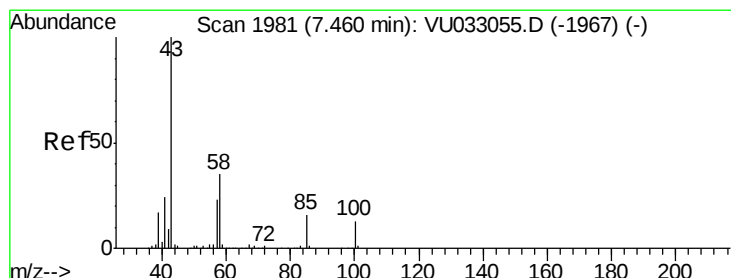
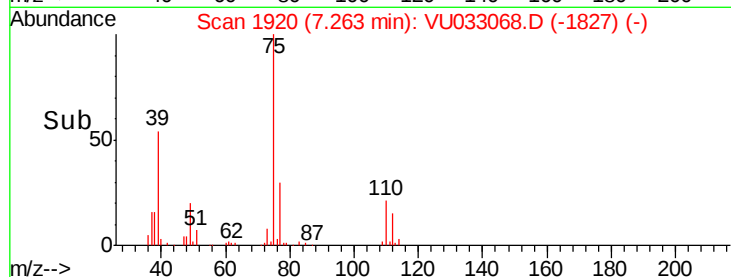
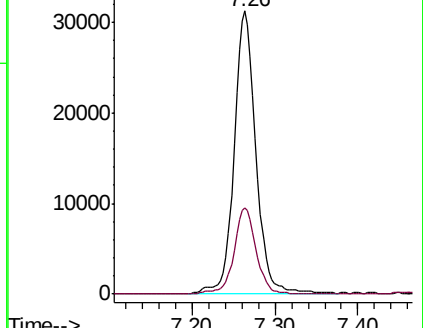
75 100

77 30.4 22.6 42.0



Abundance Ion 75.05 (74.75 to 75.75): VU033055.D (-1909) (-)

Ion 77.05 (76.75 to 77.75): VU033055.D (-1909) (-)



#40

4-Methyl-2-pentanone

Concen: 48.804 ug/L

RT: 7.46 min Scan# 1981

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

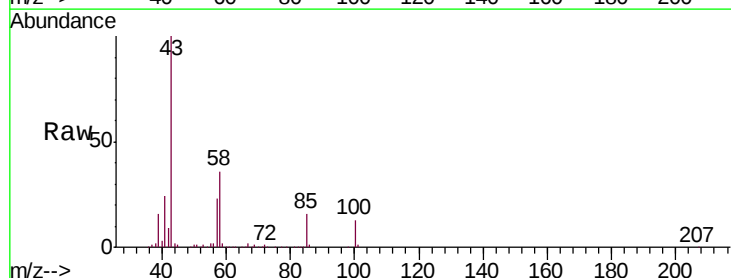
Tgt Ion: 43 Resp: 266950

Ion Ratio Lower Upper

43 100

58 35.6 28.2 42.2

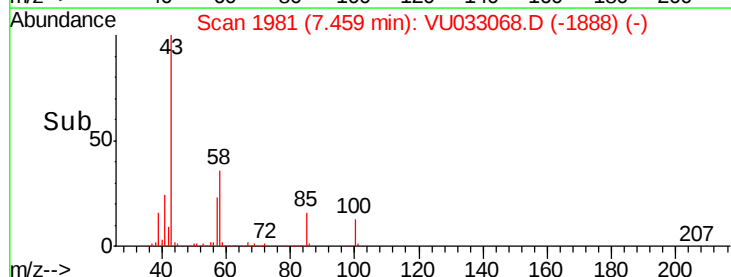
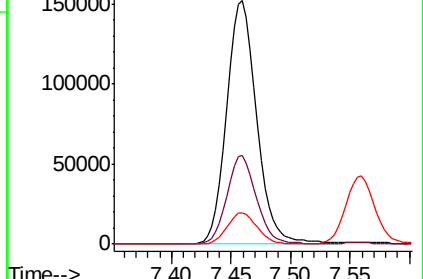
100 12.9 10.4 15.6

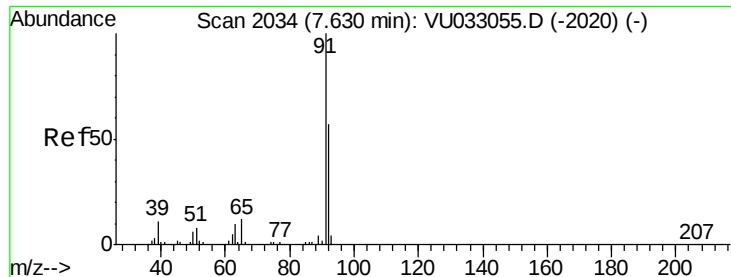


Abundance Ion 43.05 (42.75 to 43.75): VU033055.D (-1967) (-)

Ion 58.05 (57.75 to 58.75): VU033055.D (-1967) (-)

Ion 100.15 (99.85 to 100.85): VU033055.D (-1967) (-)





#42

Toluene

Concen: 4.903 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

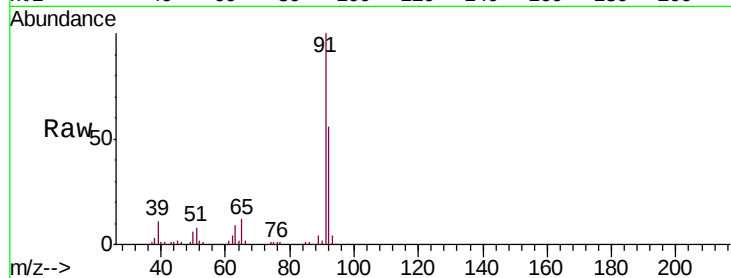
VSTD00507

Tgt Ion: 91 Resp: 154999

Ion Ratio Lower Upper

91 100

92 55.8 39.8 74.0

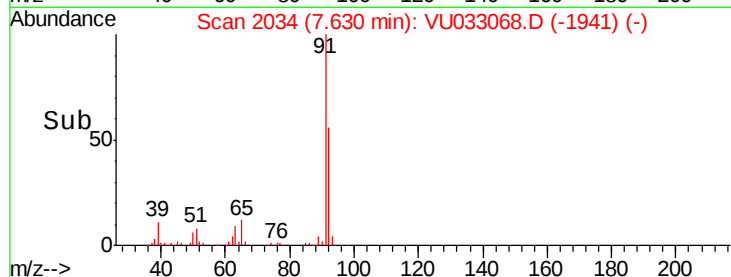


Abundance Ion 91.15 (90.85 to 91.85): VU033055.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VU033055.D (-2020) (-)

7.63

Time-->

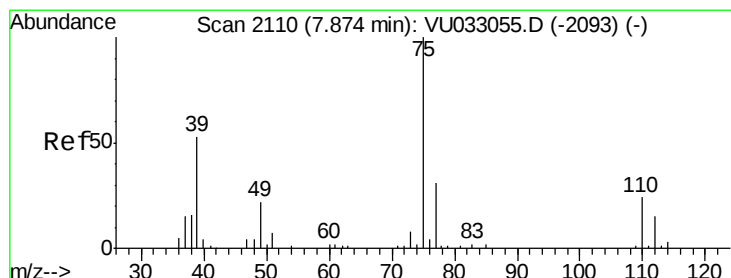


Abundance Ion 91.15 (90.85 to 91.85): VU033068.D (-1941) (-)

Ion 92.15 (91.85 to 92.85): VU033068.D (-1941) (-)

7.63

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.928 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU033068.D

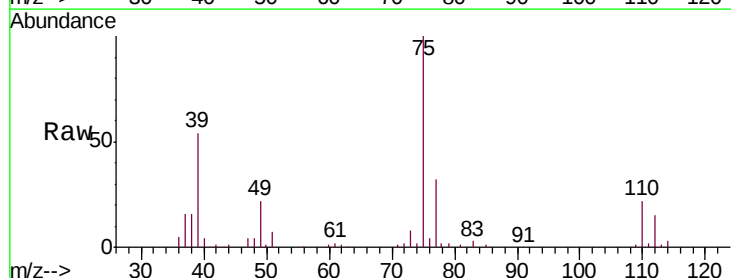
Acq: 28 Jun 2019 13:00

Tgt Ion: 75 Resp: 46477

Ion Ratio Lower Upper

75 100

77 31.7 21.6 40.2

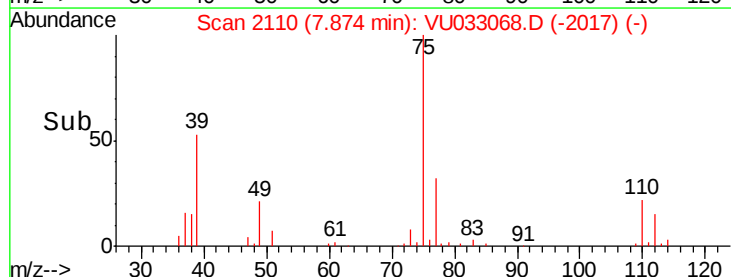


Abundance Ion 75.05 (74.75 to 75.75): VU033055.D (-2093) (-)

Ion 77.05 (76.75 to 77.75): VU033055.D (-2093) (-)

7.87

Time-->

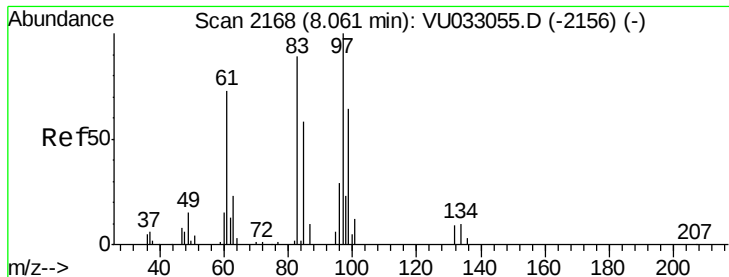


Abundance Ion 75.05 (74.75 to 75.75): VU033068.D (-2017) (-)

Ion 77.05 (76.75 to 77.75): VU033068.D (-2017) (-)

7.87

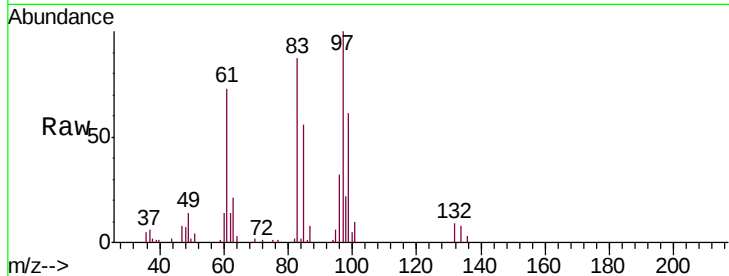
Time-->



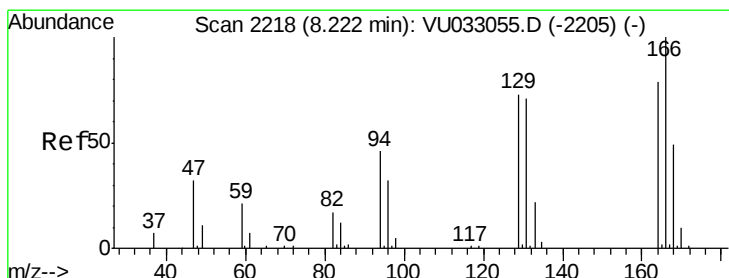
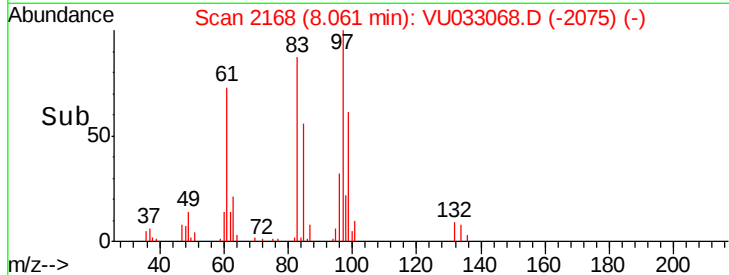
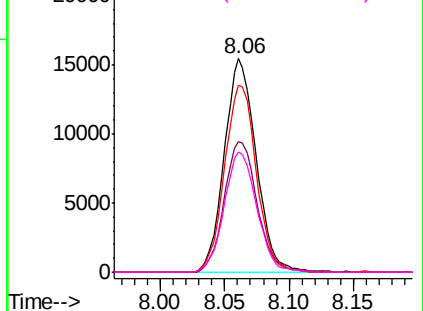
#45
 1,1,2-Trichloroethane
 Concen: 4.748 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU033068.D
 Acq: 28 Jun 2019 13:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

Tgt Ion:	97	Resp:	26422
Ion	Ratio	Lower	Upper
97	100		
99	61.2	44.7	83.1
83	87.3	62.6	116.2
85	56.3	40.5	75.1

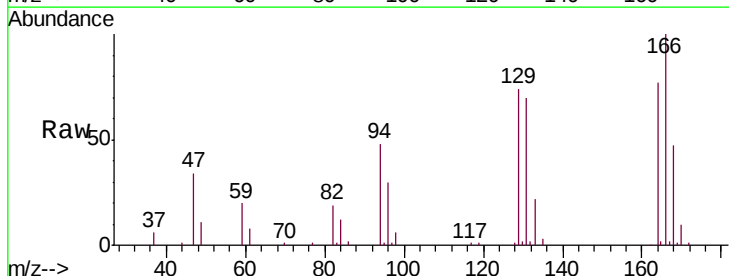


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

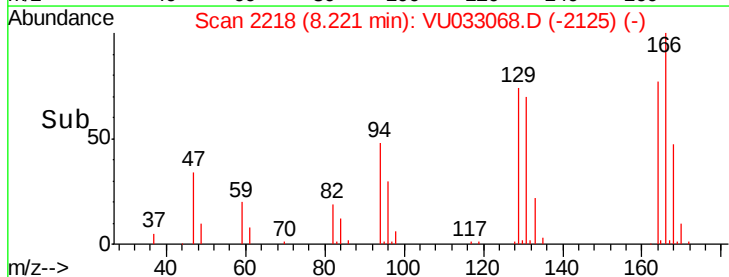
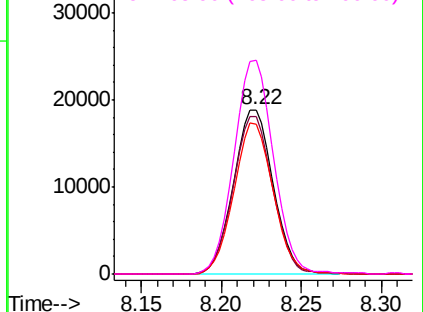


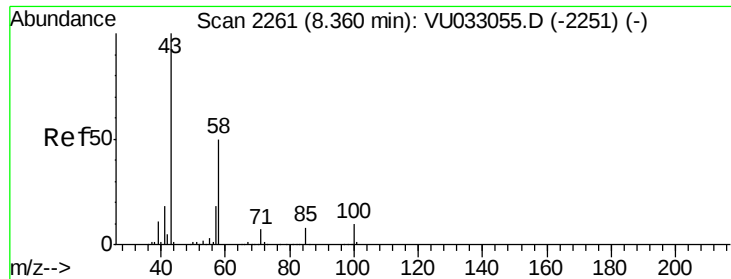
#47
 Tetrachloroethene
 Concen: 4.875 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU033068.D
 Acq: 28 Jun 2019 13:00

Tgt Ion:	164	Resp:	31782
Ion	Ratio	Lower	Upper
164	100		
129	95.8	64.9	120.5
131	91.4	63.5	117.9
166	130.3	89.1	165.5



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

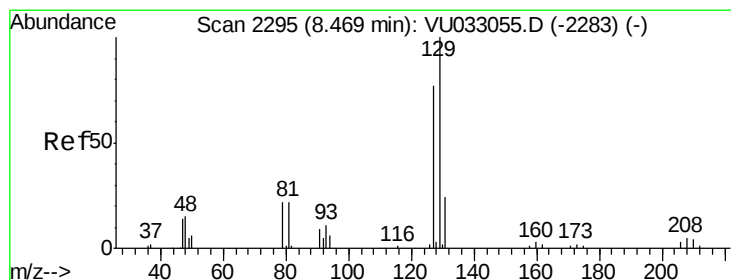
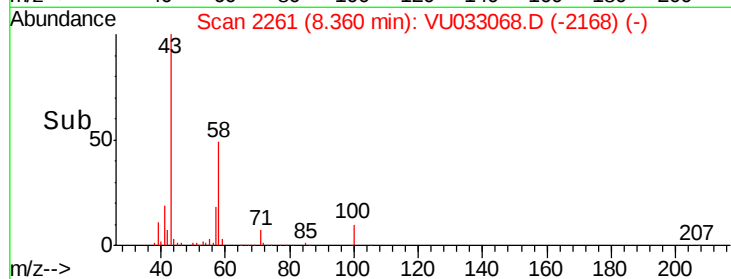
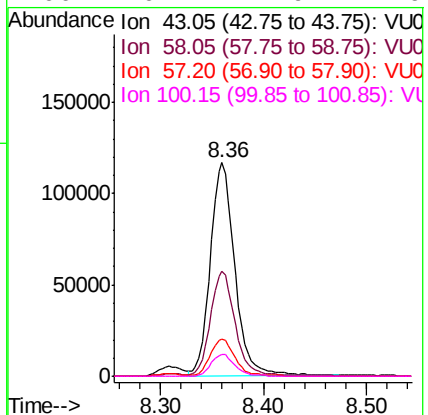
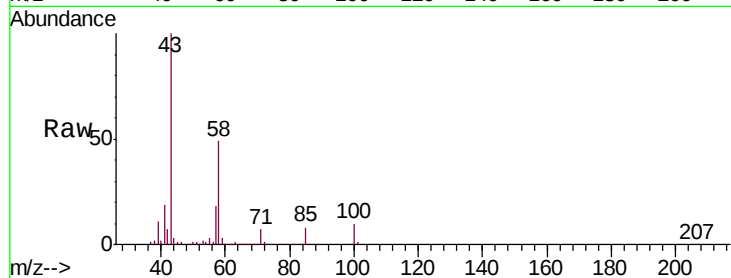




#48
2-Hexanone
Concen: 49.130 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU033068.D
Acq: 28 Jun 2019 13:00

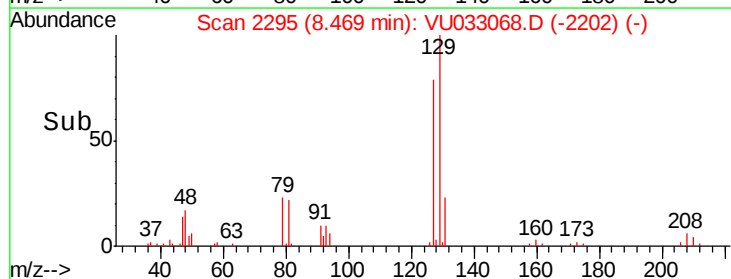
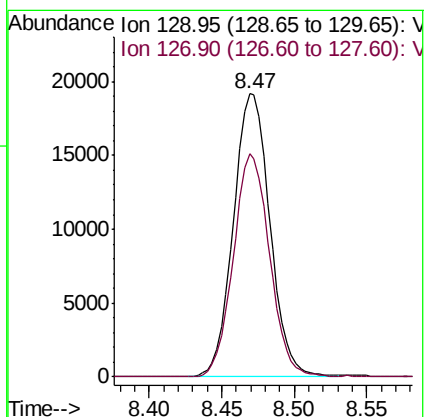
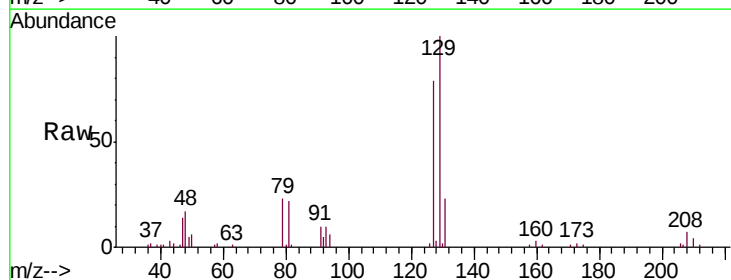
Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

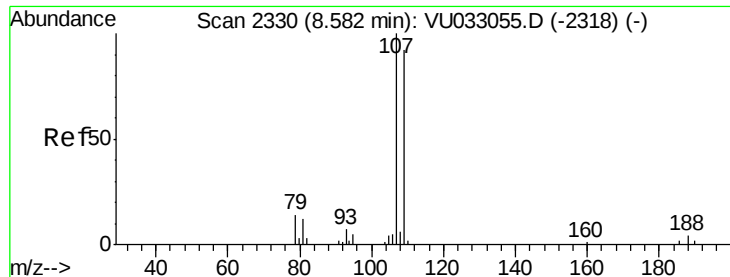
Tgt Ion: 43 Resp: 192306
Ion Ratio Lower Upper
43 100
58 49.1 40.0 60.0
57 17.6 14.0 21.0
100 10.2 7.9 11.9



#49
Dibromochloromethane
Concen: 4.766 ug/L
RT: 8.47 min Scan# 2295
Delta R.T. -0.00 min
Lab File: VU033068.D
Acq: 28 Jun 2019 13:00

Tgt Ion: 129 Resp: 33653
Ion Ratio Lower Upper
129 100
127 78.7 54.0 100.4

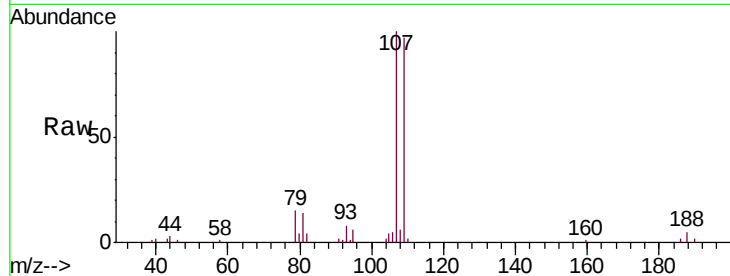




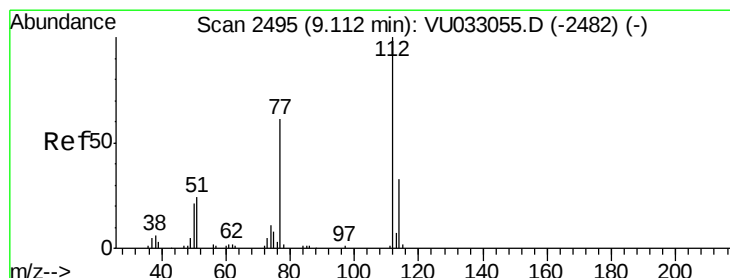
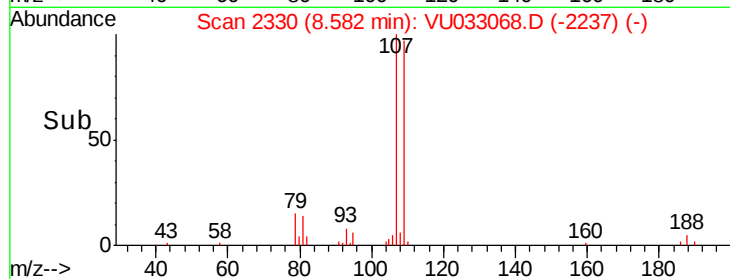
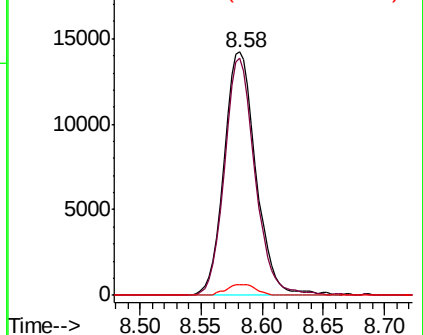
#50
1,2-Dibromoethane
Concen: 4.799 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU033068.D
Acq: 28 Jun 2019 13:00

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

Tgt Ion:107 Resp: 26035
Ion Ratio Lower Upper
107 100
109 97.4 64.7 120.1
188 4.6 2.9 4.3#

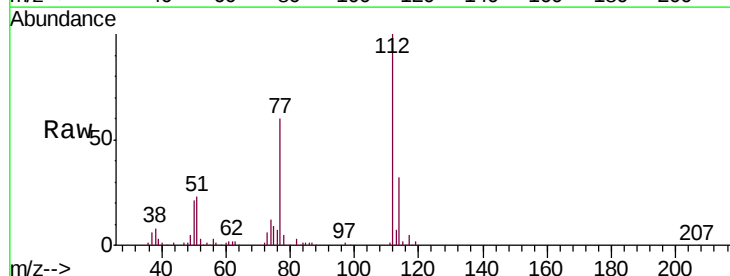


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

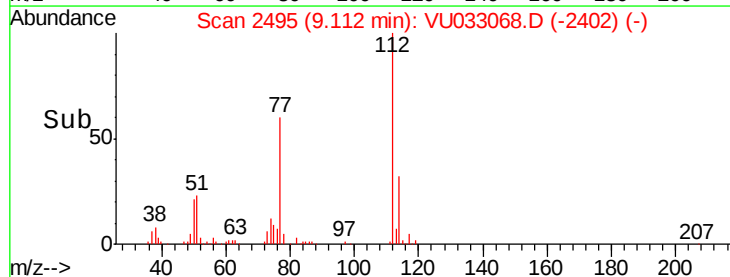
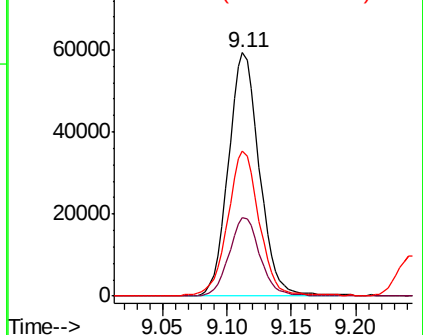


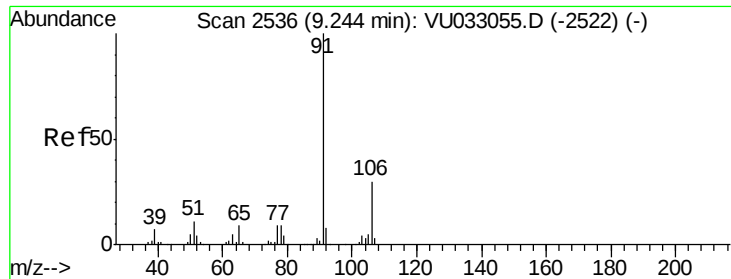
#51
Chlorobenzene
Concen: 4.740 ug/L
RT: 9.11 min Scan# 2495
Delta R.T. -0.00 min
Lab File: VU033068.D
Acq: 28 Jun 2019 13:00

Tgt Ion:112 Resp: 98985
Ion Ratio Lower Upper
112 100
114 32.2 23.3 43.3
77 59.8 48.9 73.3



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.778 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

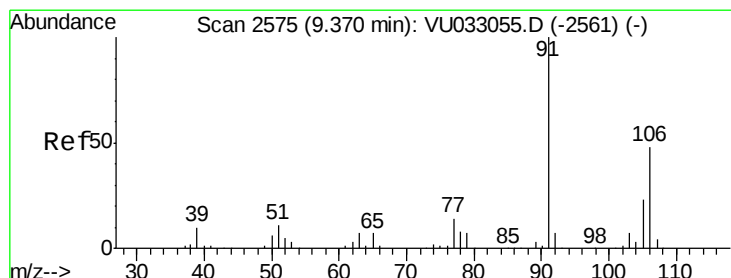
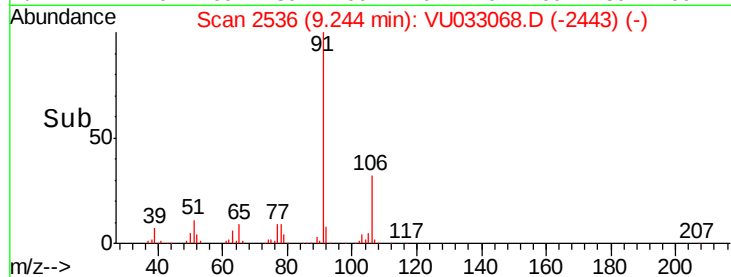
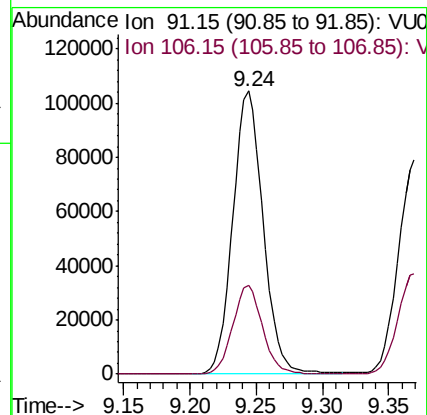
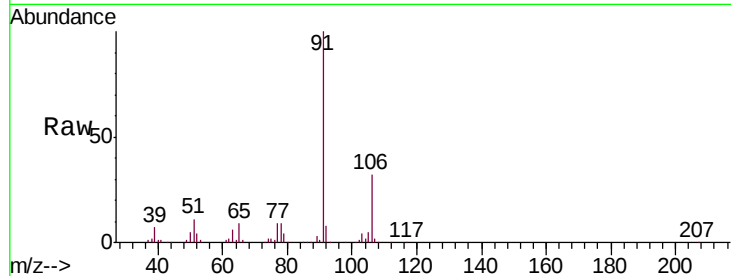
VSTD00507

Tgt Ion: 91 Resp: 166278

Ion Ratio Lower Upper

91 100

106 31.6 21.2 39.4



#53

m,p-Xylene

Concen: 4.878 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU033068.D

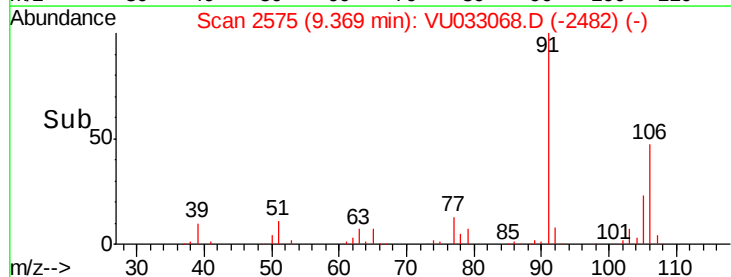
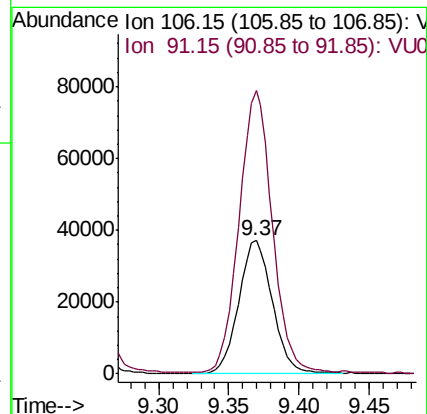
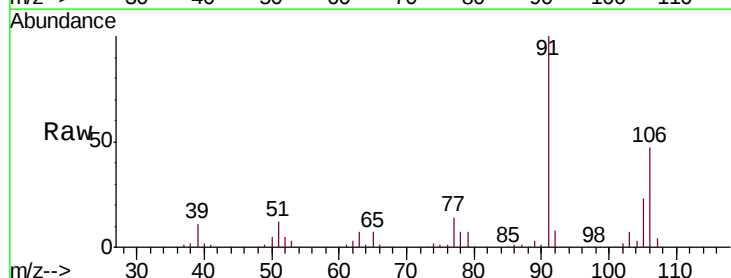
Acq: 28 Jun 2019 13:00

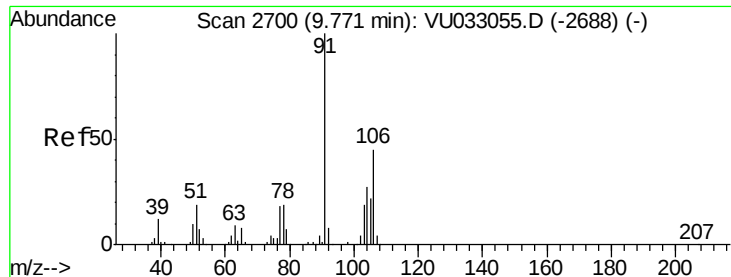
Tgt Ion: 106 Resp: 61612

Ion Ratio Lower Upper

106 100

91 212.6 146.4 272.0

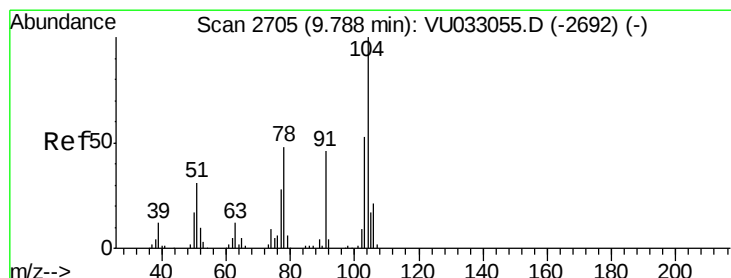
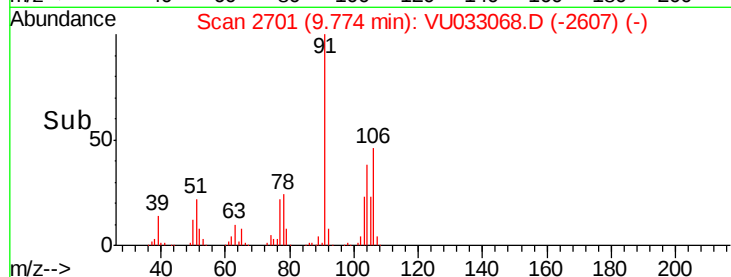
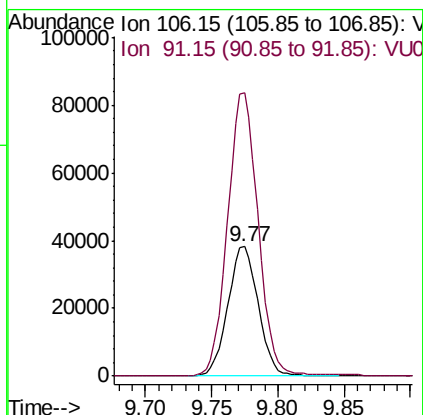
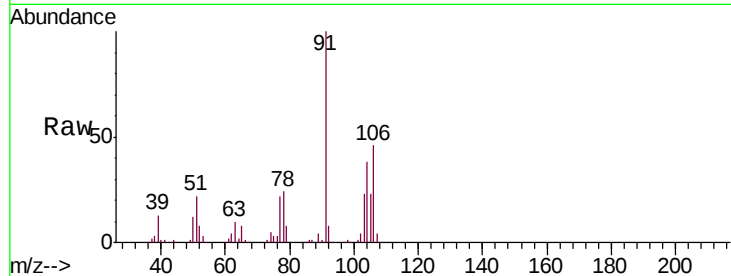




#54
o-Xylene
Concen: 4.977 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU033068.D
Acq: 28 Jun 2019 13:00

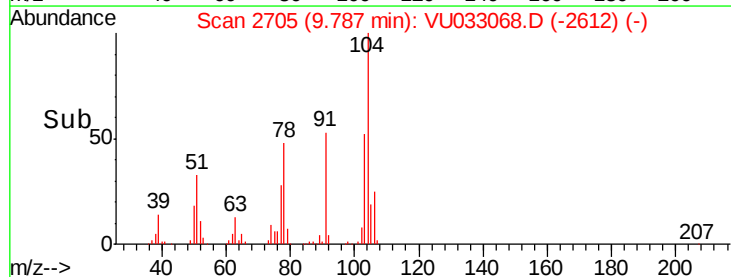
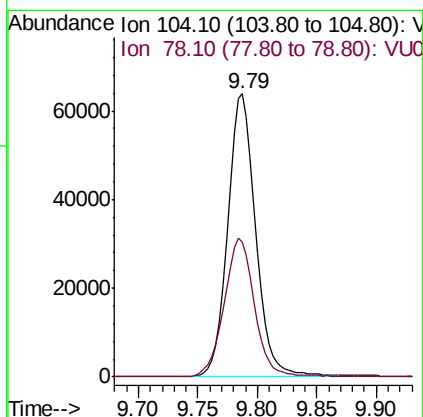
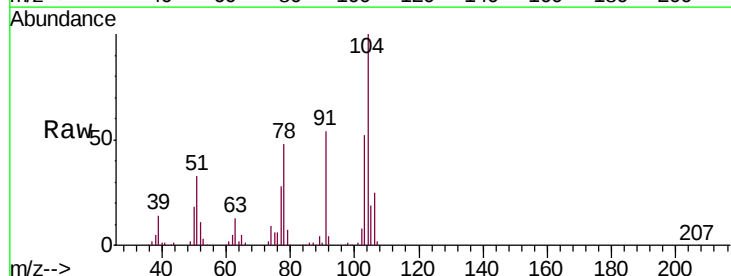
Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

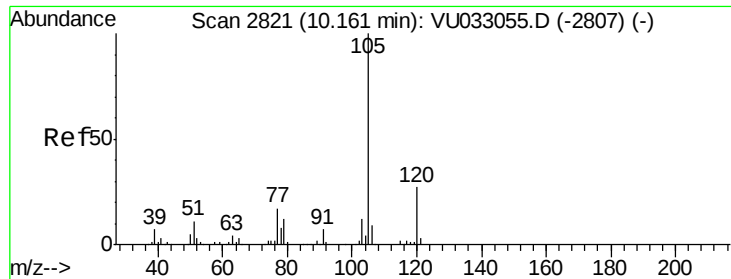
Tgt Ion:106 Resp: 61270
Ion Ratio Lower Upper
106 100
91 218.3 155.1 288.1



#55
Styrene
Concen: 4.990 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. -0.00 min
Lab File: VU033068.D
Acq: 28 Jun 2019 13:00

Tgt Ion:104 Resp: 103996
Ion Ratio Lower Upper
104 100
78 47.5 33.9 62.9

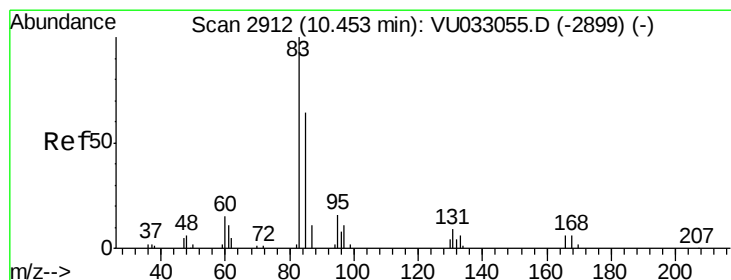
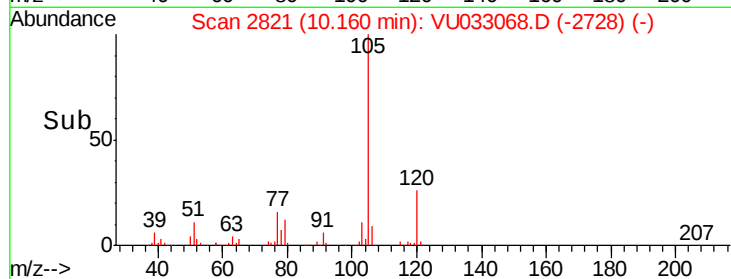
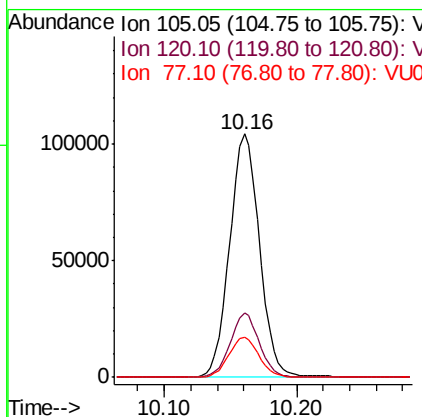
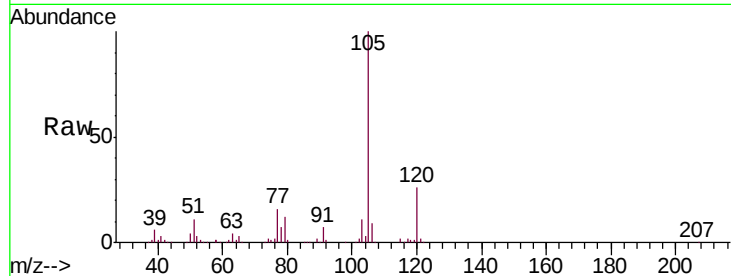




#56
Isopropylbenzene
Concen: 4.899 ug/L
RT: 10.16 min Scan# 2821
Delta R.T. -0.00 min
Lab File: VU033068.D
Acq: 28 Jun 2019 13:00

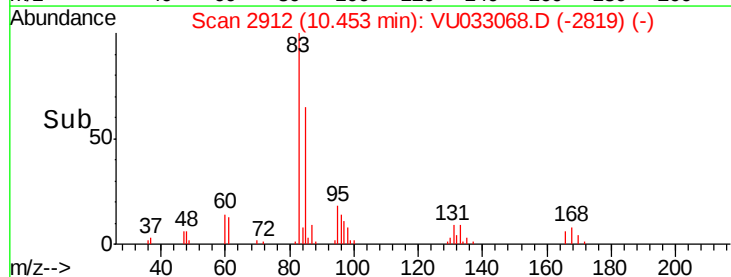
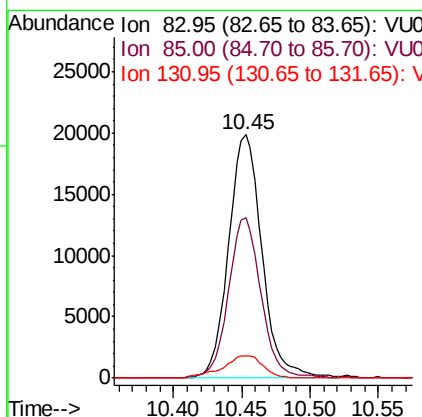
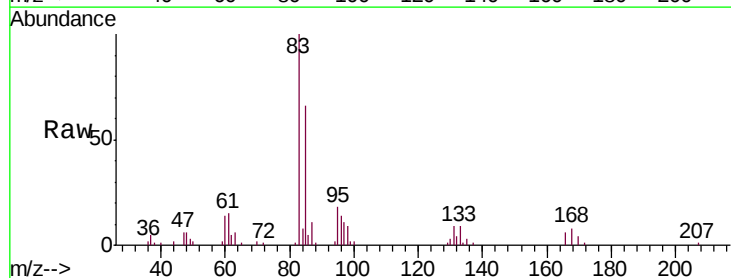
Instrument :
MSVOA_U
ClientSampled :
VSTD00507

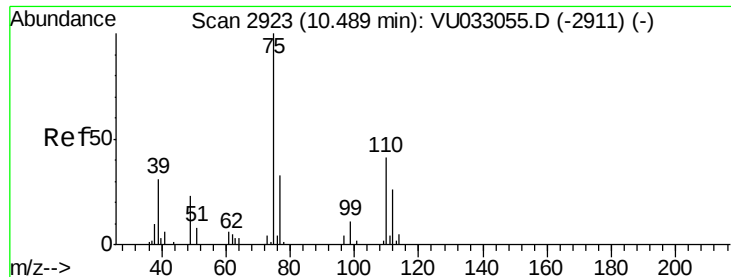
Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	21.0	31.6
77	16.6	13.6	20.4



#58
1,1,2,2-Tetrachloroethane
Concen: 4.689 ug/L
RT: 10.45 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VU033068.D
Acq: 28 Jun 2019 13:00

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	45.7	84.9
131	9.3	7.7	11.5

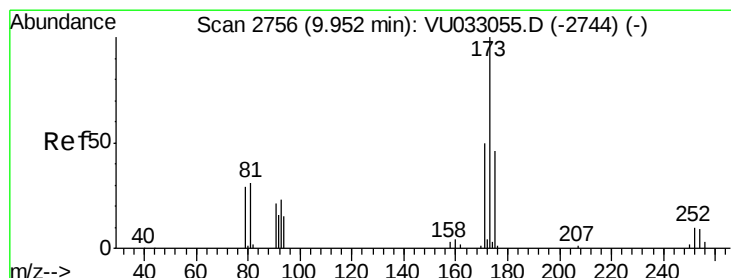
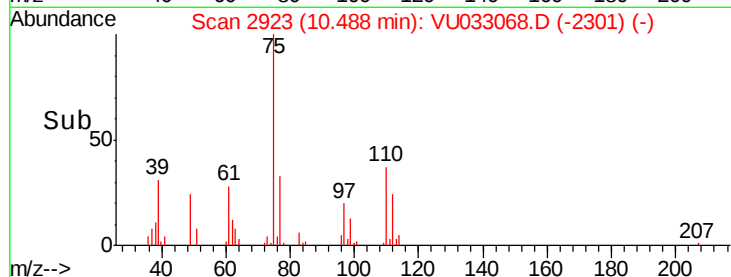
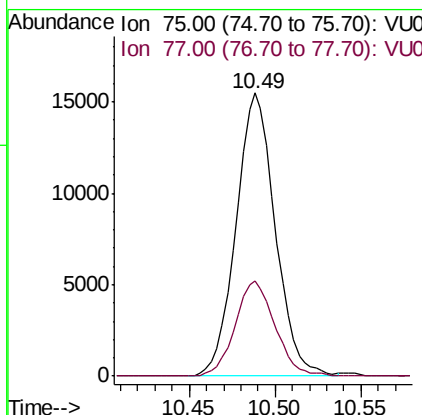
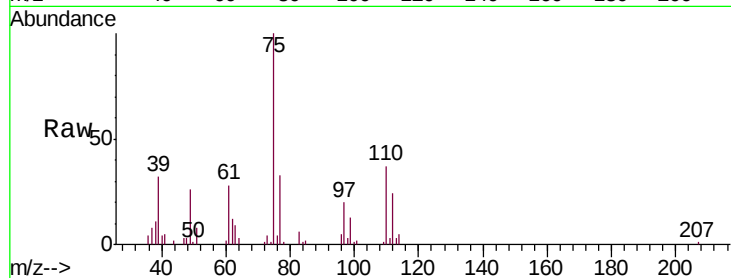




#59
 1,2,3-Trichloropropane
 Concen: 4.619 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU033068.D
 Acq: 28 Jun 2019 13:00

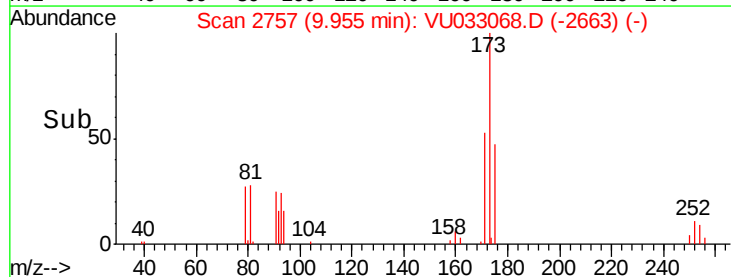
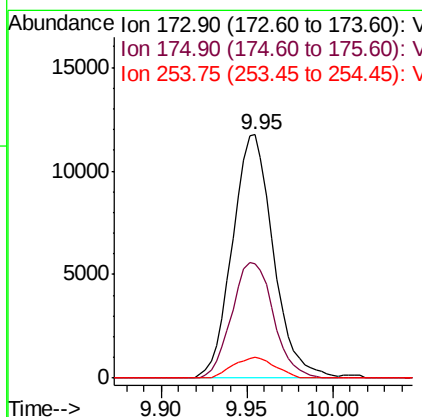
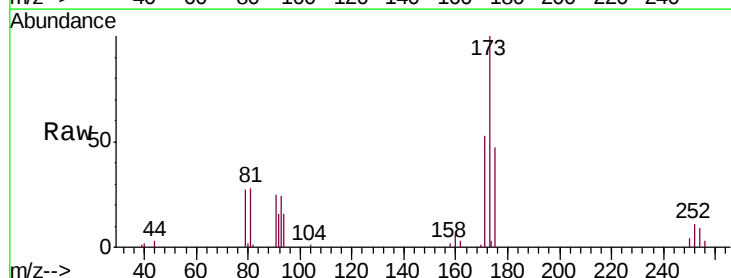
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

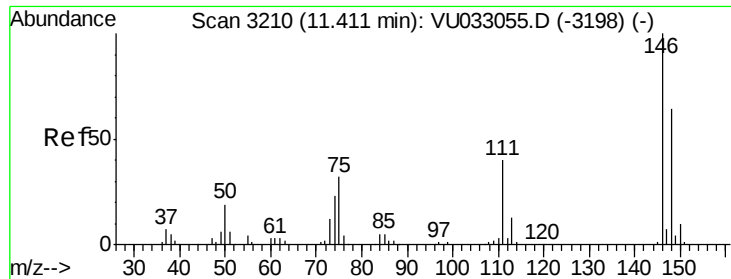
Tgt Ion: 75 Resp: 24531
 Ion Ratio Lower Upper
 75 100
 77 34.0 25.4 38.2



#61
 Bromoform
 Concen: 4.726 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU033068.D
 Acq: 28 Jun 2019 13:00

Tgt Ion: 173 Resp: 19449
 Ion Ratio Lower Upper
 173 100
 175 48.2 37.7 56.5
 254 8.7 7.7 11.5

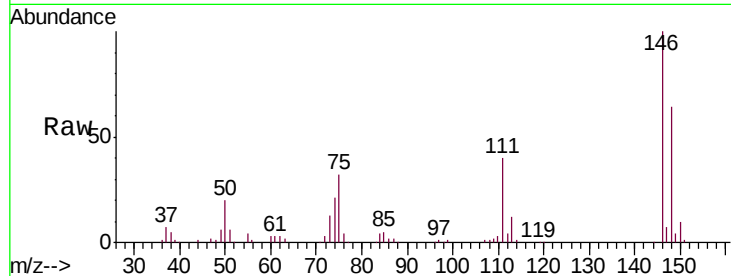




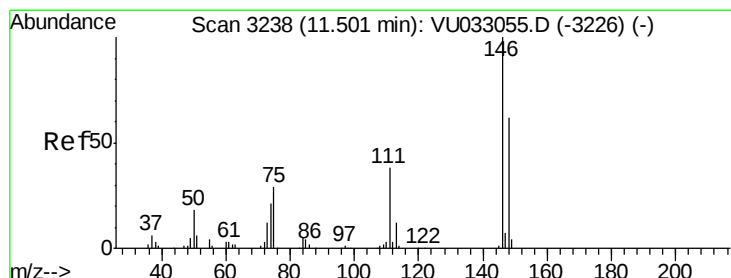
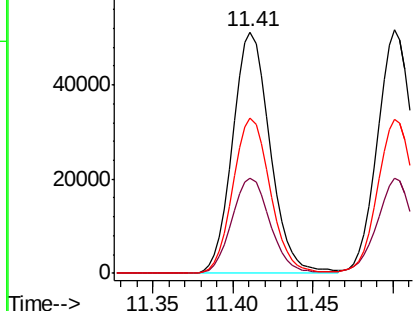
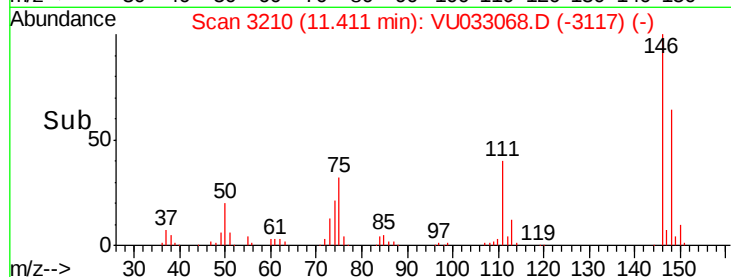
#62
 1,3-Dichlorobenzene
 Concen: 4.817 ug/L
 RT: 11.41 min Scan# 3210
 Delta R.T. -0.00 min
 Lab File: VU033068.D
 Acq: 28 Jun 2019 13:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

Tgt Ion:146 Resp: 81442
 Ion Ratio Lower Upper
 146 100
 111 39.6 27.7 51.5
 148 64.3 44.5 82.7

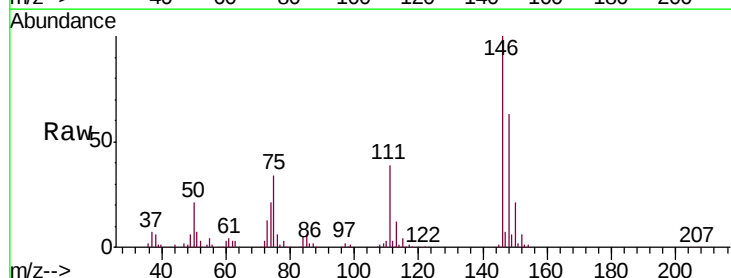


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

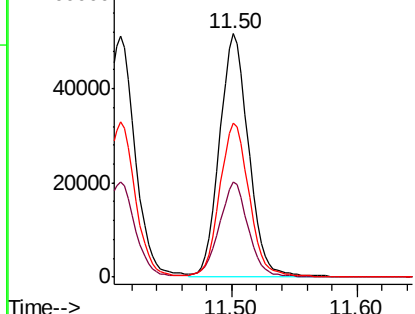
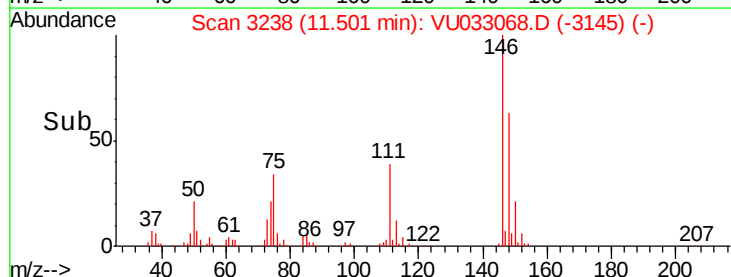


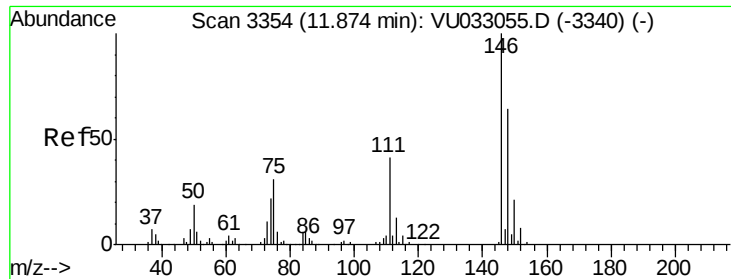
#63
 1,4-Dichlorobenzene
 Concen: 4.683 ug/L
 RT: 11.50 min Scan# 3238
 Delta R.T. -0.00 min
 Lab File: VU033068.D
 Acq: 28 Jun 2019 13:00

Tgt Ion:146 Resp: 82604
 Ion Ratio Lower Upper
 146 100
 111 39.1 26.7 49.7
 148 63.5 43.6 81.0



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

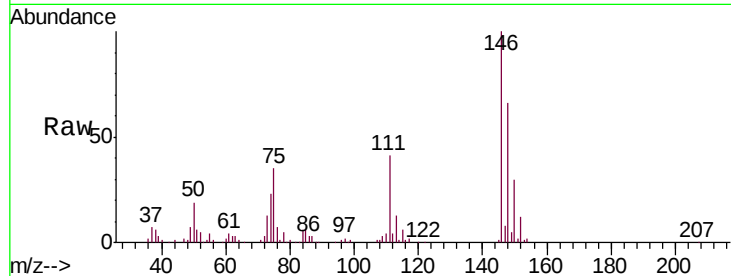




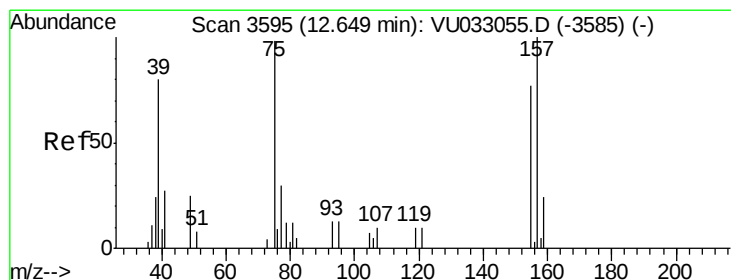
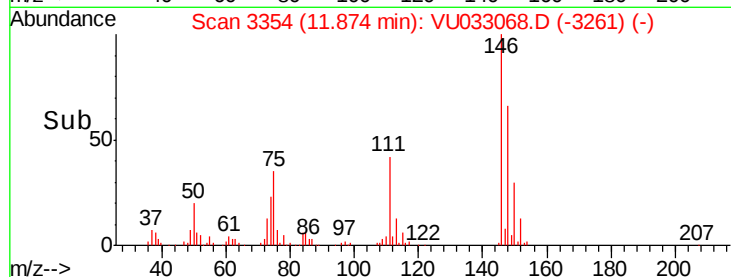
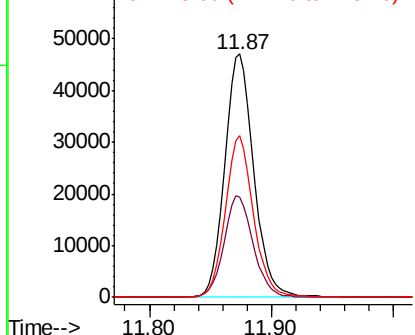
#65
 1,2-Dichlorobenzene
 Concen: 4.785 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU033068.D
 Acq: 28 Jun 2019 13:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

Tgt Ion:146 Resp: 78464
 Ion Ratio Lower Upper
 146 100
 111 41.3 33.2 49.8
 148 66.2 51.4 77.0

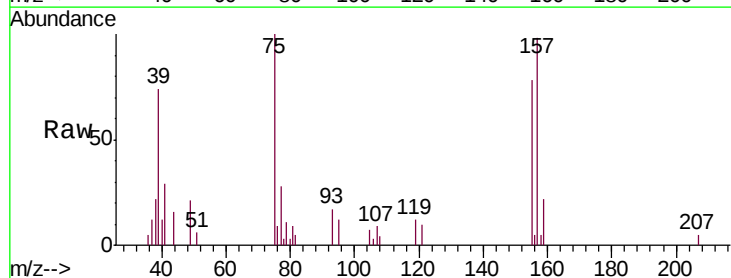


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

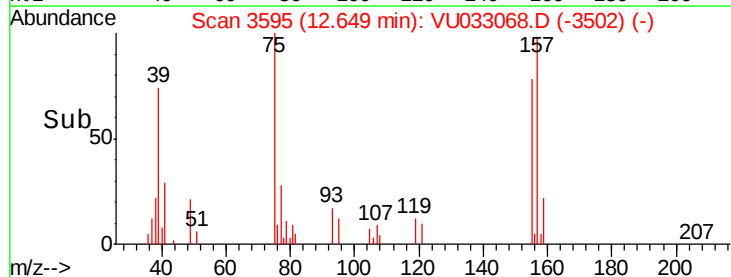
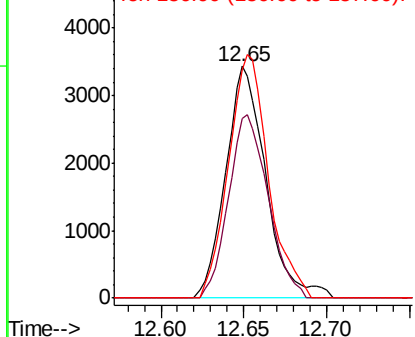


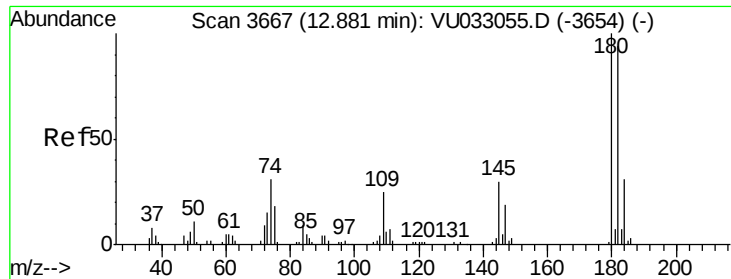
#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.120 ug/L
 RT: 12.65 min Scan# 3595
 Delta R.T. -0.00 min
 Lab File: VU033068.D
 Acq: 28 Jun 2019 13:00

Tgt Ion: 75 Resp: 5774
 Ion Ratio Lower Upper
 75 100
 155 77.7 62.9 94.3
 157 98.4 82.0 123.0



Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

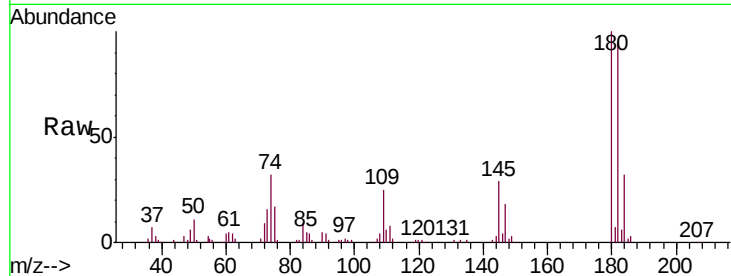




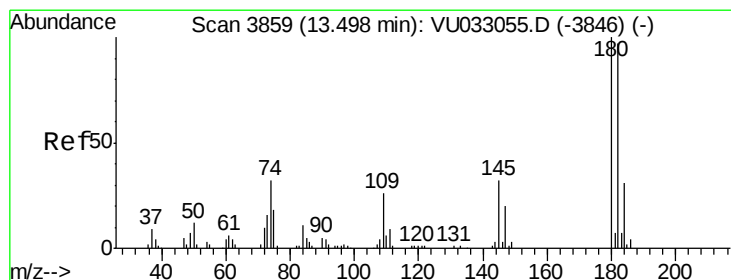
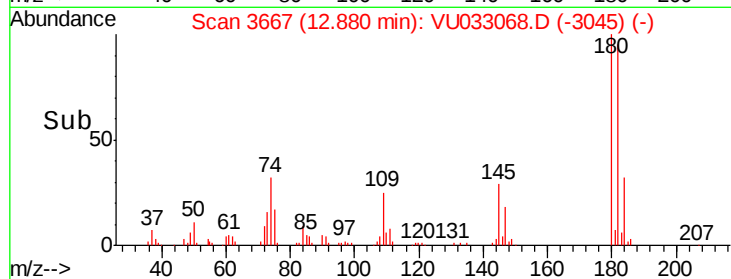
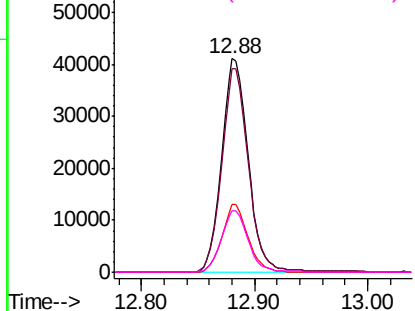
#67
 1,3,5-Trichlorobenzene
 Concen: 5.013 ug/L
 RT: 12.88 min Scan# 3667
 Delta R.T. -0.00 min
 Lab File: VU033068.D
 Acq: 28 Jun 2019 13:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

Tgt Ion:180 Resp: 67551
 Ion Ratio Lower Upper
 180 100
 182 94.7 76.6 114.8
 184 30.6 24.6 36.8
 145 28.9 23.8 35.6

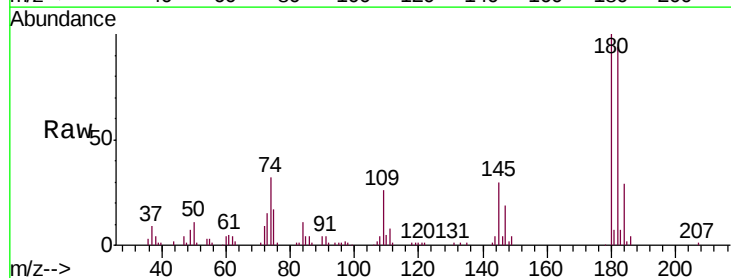


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

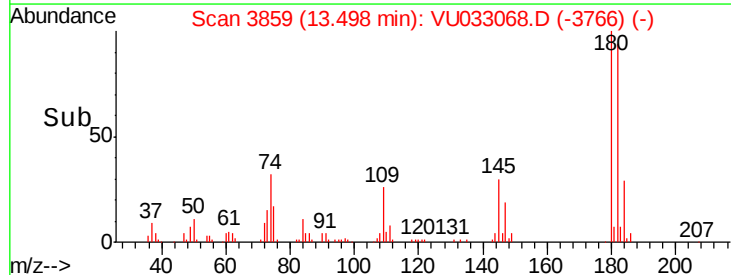
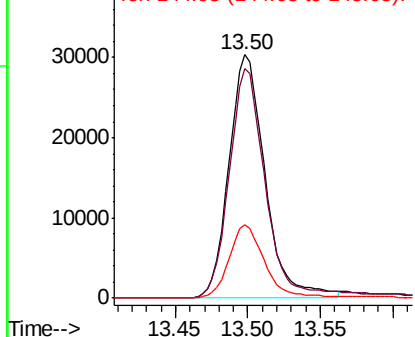


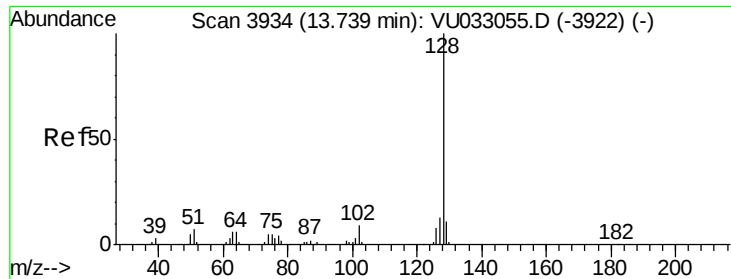
#68
 1,2,4-trichlorobenzene
 Concen: 5.450 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU033068.D
 Acq: 28 Jun 2019 13:00

Tgt Ion:180 Resp: 52481
 Ion Ratio Lower Upper
 180 100
 182 96.9 79.1 118.7
 145 29.7 24.3 36.5



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.991 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

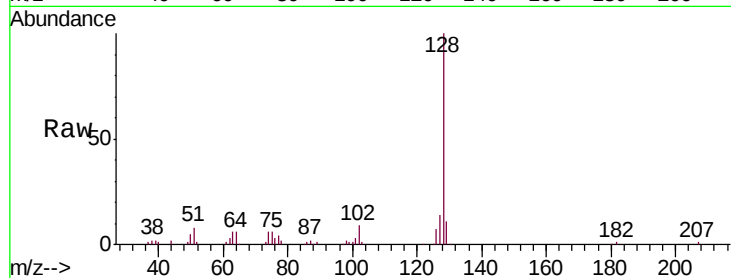
Tgt Ion:128 Resp: 70536

Ion Ratio Lower Upper

128 100

129 10.6 8.6 12.8

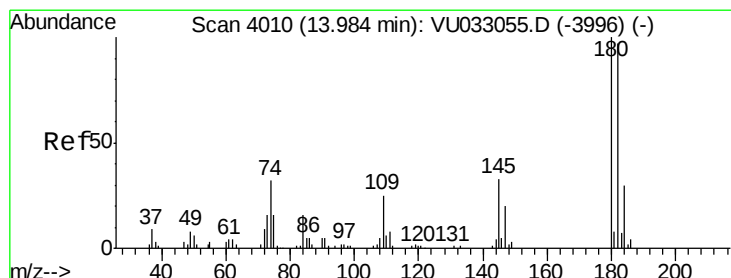
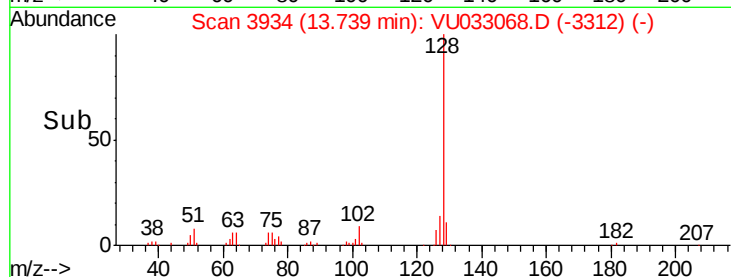
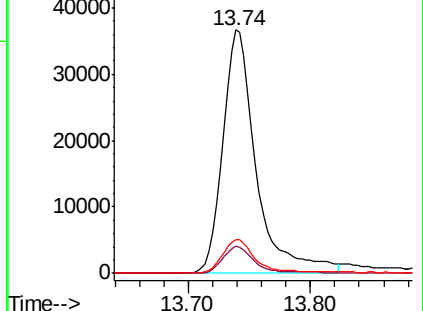
127 13.6 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.263 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU033068.D

Acq: 28 Jun 2019 13:00

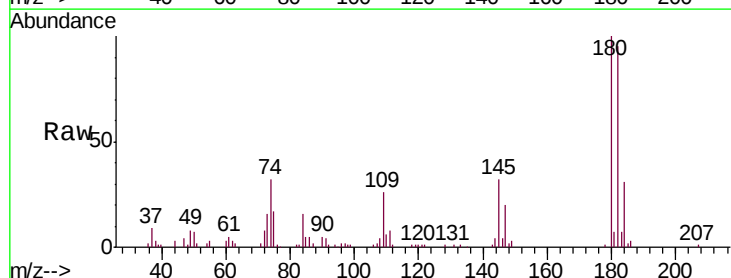
Tgt Ion:180 Resp: 49693

Ion Ratio Lower Upper

180 100

182 94.7 74.8 112.2

145 30.9 25.7 38.5



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

