

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032820\
 Data File : VU037415.D
 Acq On : 28 Mar 2020 13:06
 Operator : JC/MD
 Sample : VSTDICV005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 30 00:11:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR032820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Mar 28 12:50:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	130039	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	124702	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	62942	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	42299	4.41	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.20%
7) Chloroethane-d5	1.93	69	33937	4.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.40%
11) 1,1-Dichloroethene-d2	2.59	63	85023	4.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.80%
20) 2-Butanone-d5	4.68	46	123717	47.29	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.58%
24) Chloroform-d	5.10	84	84741	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.20%
26) 1,2-Dichloroethane-d4	5.74	65	45475	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.20%
32) Benzene-d6	5.76	84	162313	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.20%
36) 1,2-Dichloropropane-d6	6.72	67	51928	4.35	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.00%
41) Toluene-d8	7.93	98	150210	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.00%
43) trans-1,3-Dichloropropene-	8.20	79	25210	4.50	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.00%
46) 2-Hexanone-d5	8.66	63	101940	45.73	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.46%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	42943	4.29	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.80%
64) 1,2-Dichlorobenzene-d4	12.21	152	57567	4.64	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	49513	4.538	ug/L 96
3) Chloromethane	1.53	50	43459	4.493	ug/L 100
5) Vinyl chloride	1.62	62	47071	4.624	ug/L 98
6) Bromomethane	1.87	94	28776	5.016	ug/L 96
8) Chloroethane	1.95	64	26065	4.590	ug/L 97
9) Trichlorofluoromethane	2.16	101	62662	4.598	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	38750	4.666	ug/L 99
12) 1,1-Dichloroethene	2.60	96	39284	4.593	ug/L 95
13) Acetone	2.69	43	69295	46.094	ug/L 97
14) Carbon disulfide	2.82	76	135557	4.633	ug/L 99
15) Methyl Acetate	2.99	43	18543	4.415	ug/L 99
16) Methylene chloride	3.08	84	43316	4.532	ug/L 99
17) Methyl tert-butyl Ether	3.40	73	107836	4.633	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	40960	4.580	ug/L 93
19) 1,1-Dichloroethane	3.91	63	76628	4.584	ug/L 98
21) 2-Butanone	4.76	43	118785	46.478	ug/L 98
22) cis-1,2-Dichloroethene	4.71	96	45584	4.548	ug/L 95

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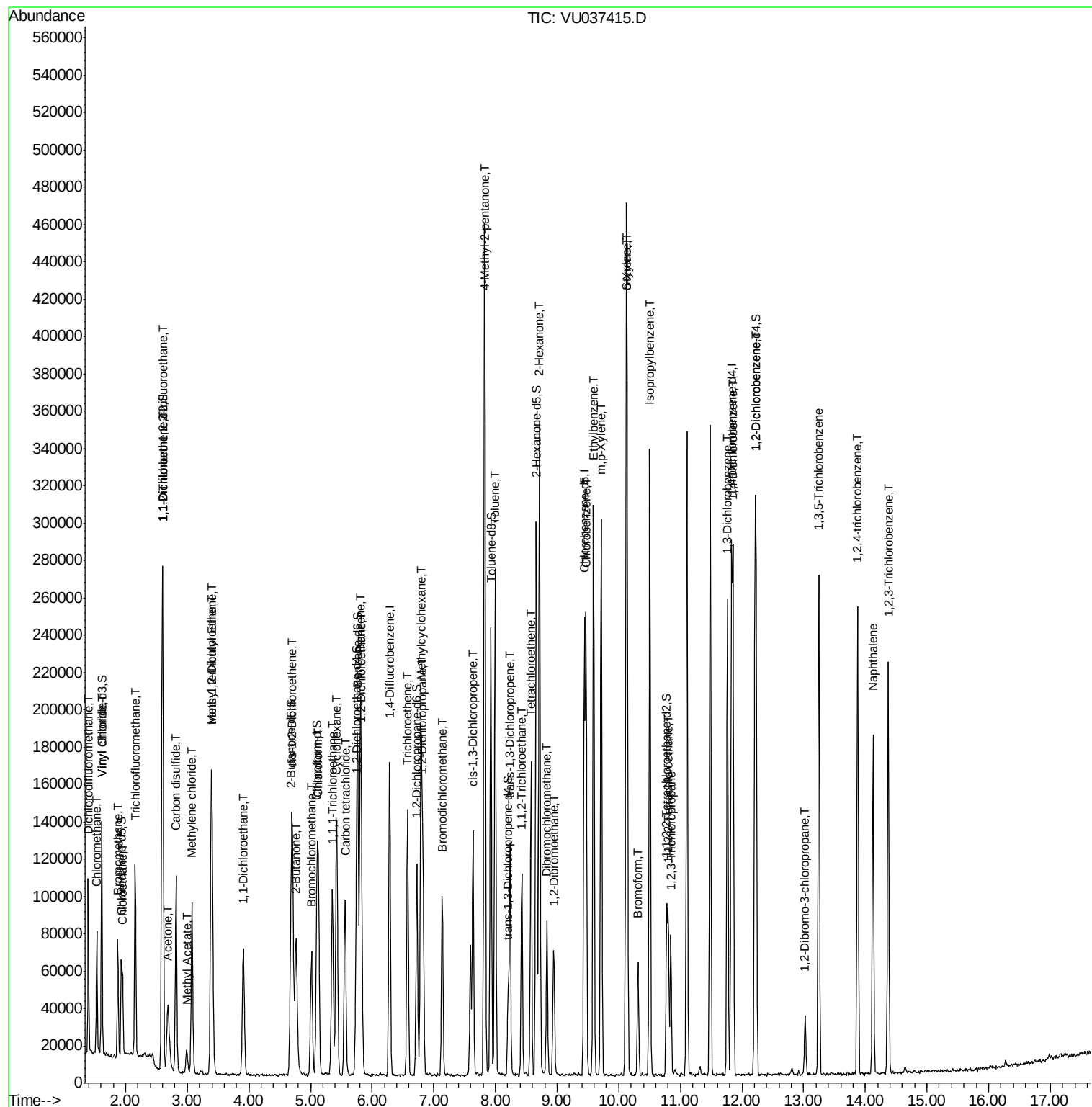
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	20259	4.576	ug/L	98
25) Chloroform	5.13	83	80356	4.570	ug/L	99
27) 1,2-Dichloroethane	5.83	62	54713	4.658	ug/L	97
29) 1,1,1-Trichloroethane	5.35	97	73110	4.664	ug/L	98
30) Cyclohexane	5.42	56	72692	4.526	ug/L	98
31) Carbon tetrachloride	5.56	117	63019	4.657	ug/L	99
33) Benzene	5.81	78	171717	4.650	ug/L	100
34) Trichloroethene	6.57	95	47851	4.549	ug/L	96
35) Methylcyclohexane	6.79	83	75780	4.552	ug/L	98
37) 1,2-Dichloropropane	6.82	63	45088	4.723	ug/L	99
38) Bromodichloromethane	7.14	83	59693	4.572	ug/L	97
39) cis-1,3-Dichloropropene	7.64	75	72509	4.658	ug/L	93
40) 4-Methyl-2-pentanone	7.82	43	296306	46.620	ug/L	100
42) Toluene	8.00	91	186550	4.687	ug/L	99
44) trans-1,3-Dichloropropene	8.24	75	65443	4.702	ug/L	97
45) 1,1,2-Trichloroethane	8.43	97	32576	4.563	ug/L	96
47) Tetrachloroethene	8.58	164	34540	4.767	ug/L	97
48) 2-Hexanone	8.71	43	216281	47.210	ug/L	98
49) Dibromochloromethane	8.84	129	40870	4.638	ug/L	95
50) 1,2-Dibromoethane	8.95	107	32463	4.684	ug/L	99
51) Chlorobenzene	9.47	112	118492	4.310	ug/L	100
52) Ethylbenzene	9.59	91	212708	4.657	ug/L	99
53) m,p-Xylene	9.72	106	81732	4.736	ug/L	98
54) o-Xylene	10.12	106	77764	4.617	ug/L	100
55) Styrene	10.13	104	135354	4.703	ug/L	99
56) Isopropylbenzene	10.50	105	211476	4.713	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	41368	4.539	ug/L	95
59) 1,2,3-Trichloropropane	10.84	75	30345	4.570	ug/L	96
61) Bromoform	10.31	173	25389	4.853	ug/L	96
62) 1,3-Dichlorobenzene	11.76	146	96062	4.746	ug/L	96
63) 1,4-Dichlorobenzene	11.85	146	97366	4.505	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	89558	4.584	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.02	75	8550	4.973	ug/L	95
67) 1,3,5-Trichlorobenzene	13.25	180	76966	4.904	ug/L	98
68) 1,2,4-trichlorobenzene	13.88	180	72021	4.760	ug/L	99
69) Naphthalene	14.12	128	142518	4.852	ug/L	99
70) 1,2,3-Trichlorobenzene	14.37	180	64038	4.706	ug/L	98

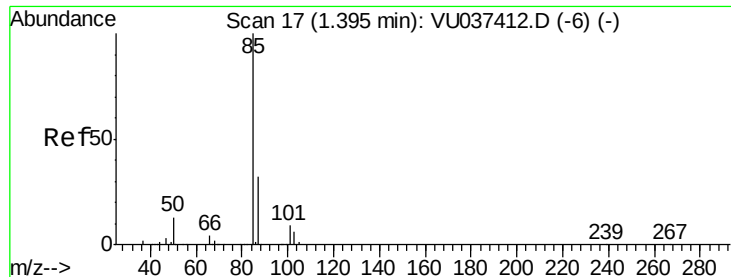
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.538 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Instrument :

MSVOA_U

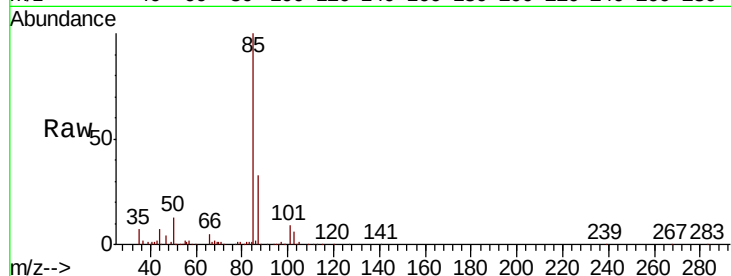
ClientSampleId :

Tot Ion: 85 Resp: 49513

Ion Ratio Lower Upper

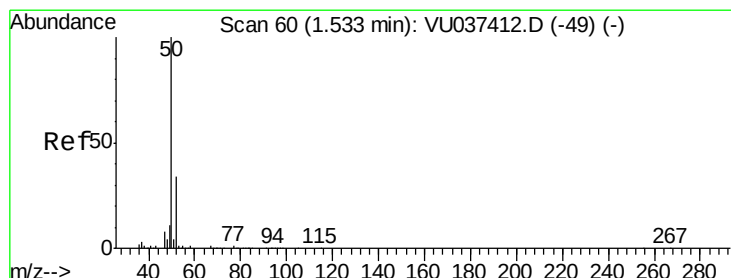
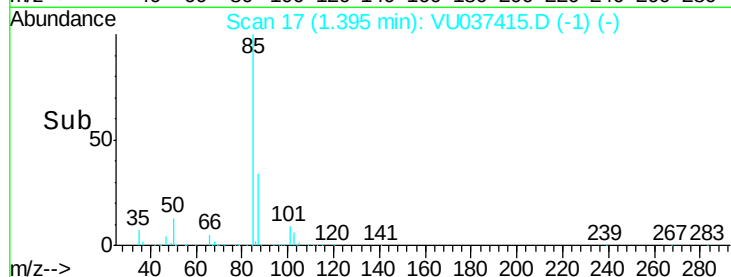
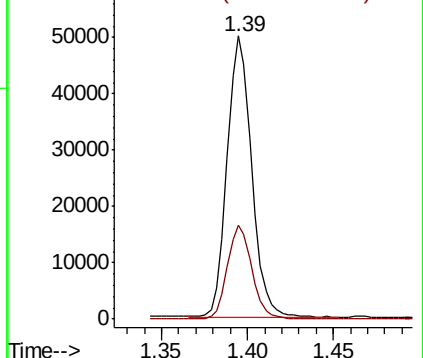
85 100

87 33.3 24.9 37.3



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.493 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU037415.D

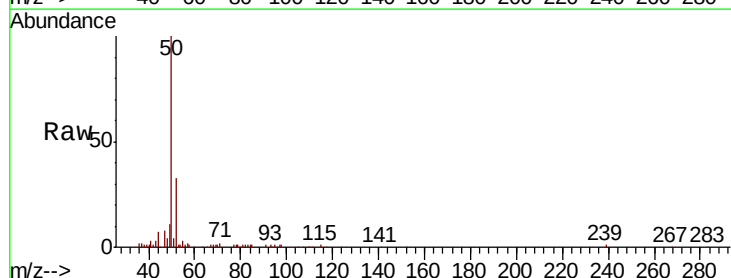
Acq: 28 Mar 2020 13:06

Tgt Ion: 50 Resp: 43459

Ion Ratio Lower Upper

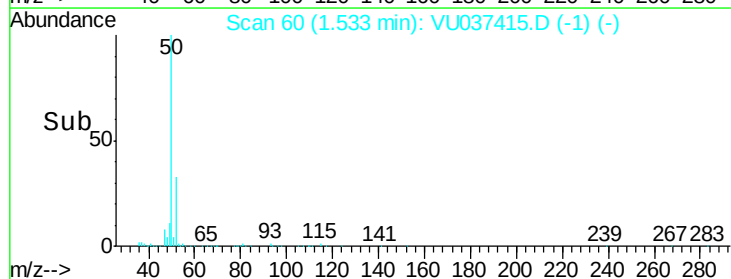
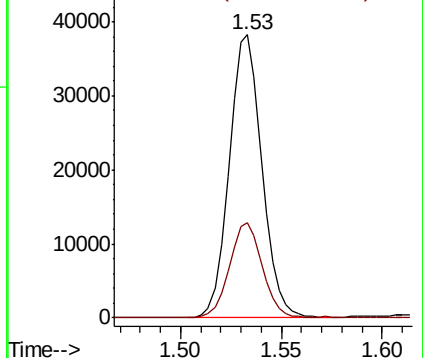
50 100

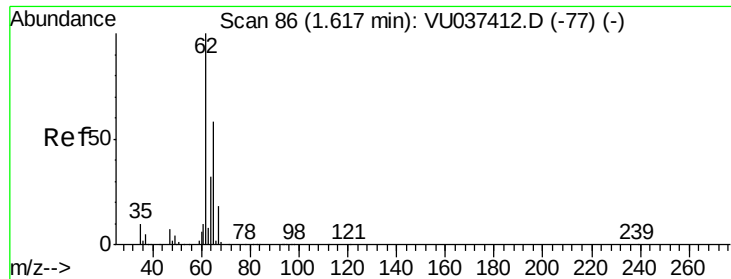
52 33.5 23.6 43.8



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.624 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Instrument :

MSVOA_U

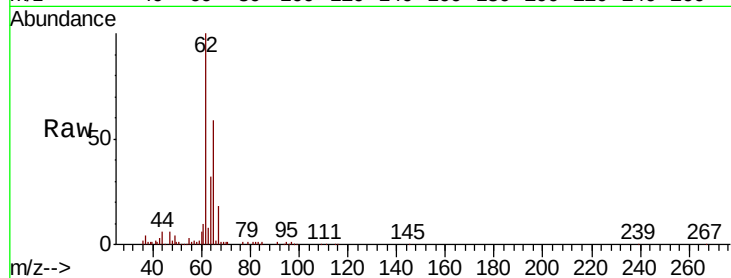
ClientSampleId :

Tot Ion: 62 Resp: 47071

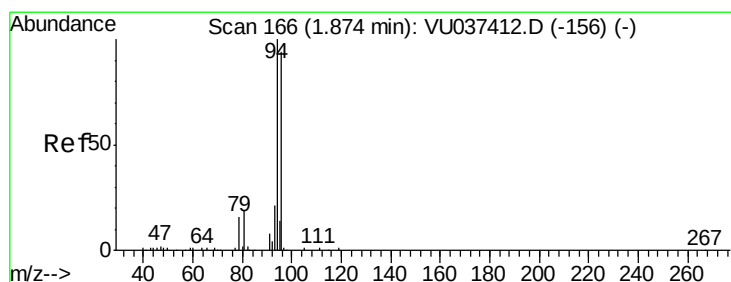
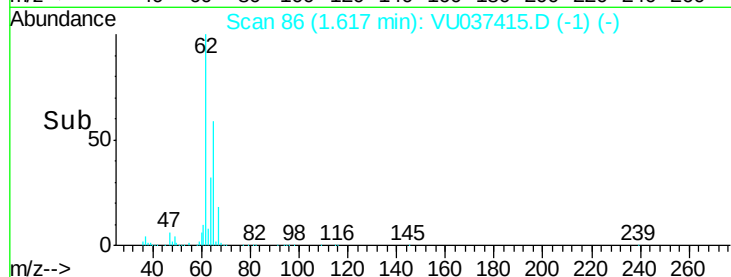
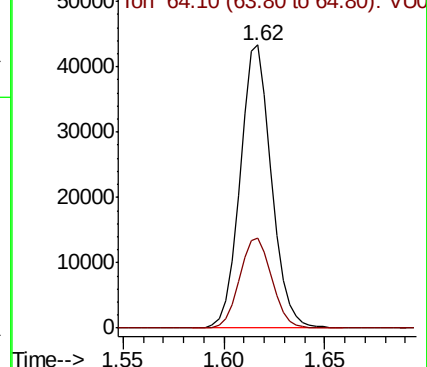
Ion Ratio Lower Upper

62 100

64 31.7 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU037415.D (-1) (-)



#6

Bromomethane

Concen: 5.016 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU037415.D

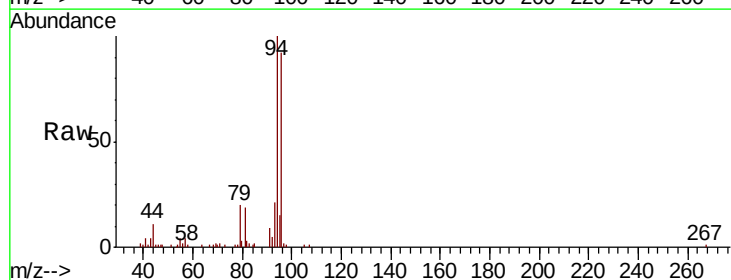
Acq: 28 Mar 2020 13:06

Tgt Ion: 94 Resp: 28776

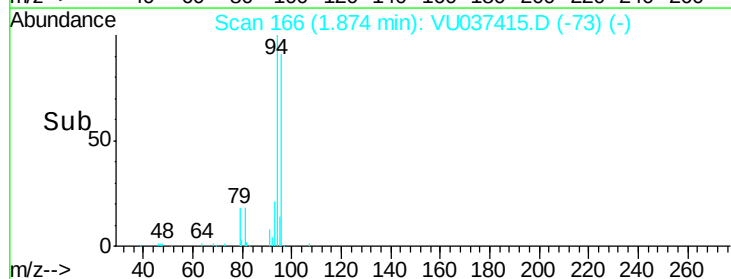
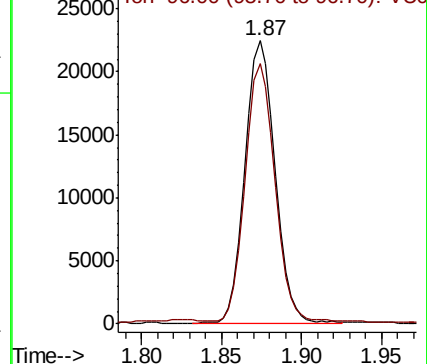
Ion Ratio Lower Upper

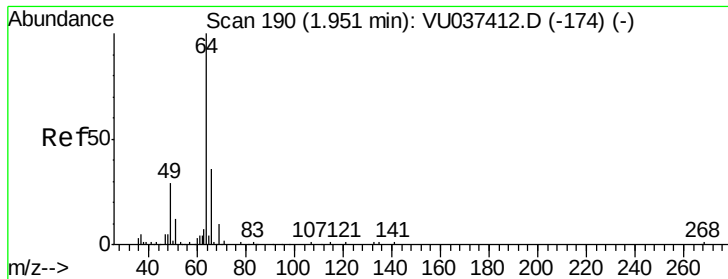
94 100

96 91.8 66.8 124.2



Abundance Ion 94.00 (93.70 to 94.70): VU037415.D (-73) (-)

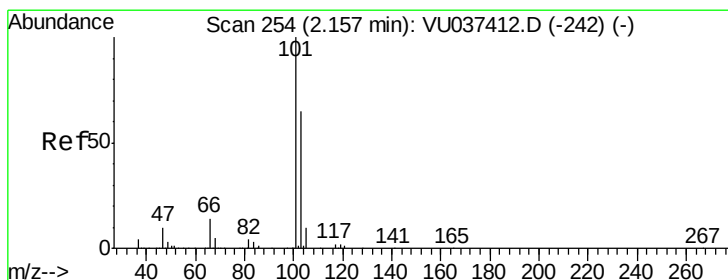
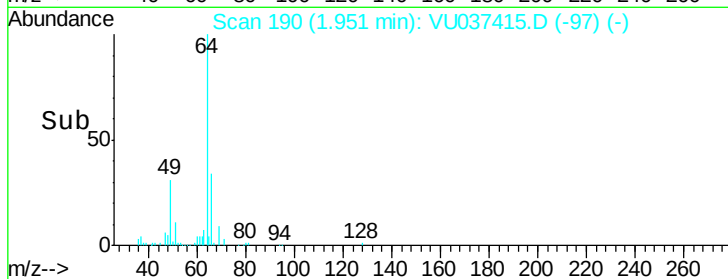
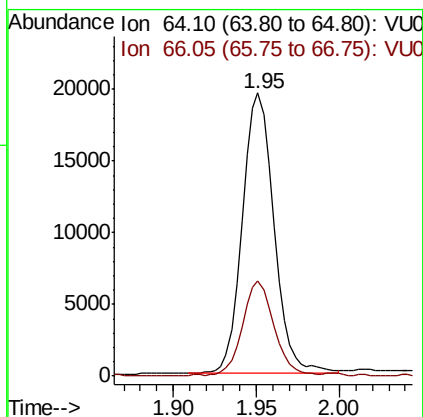
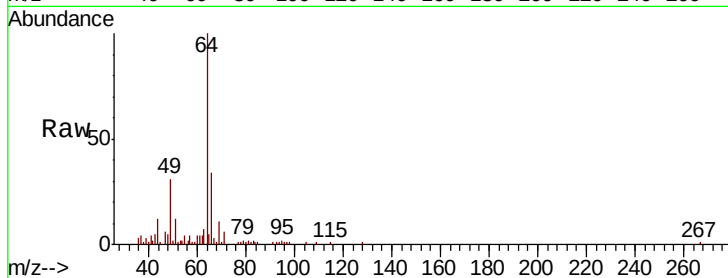




#8
Chloroethane
Concen: 4.590 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

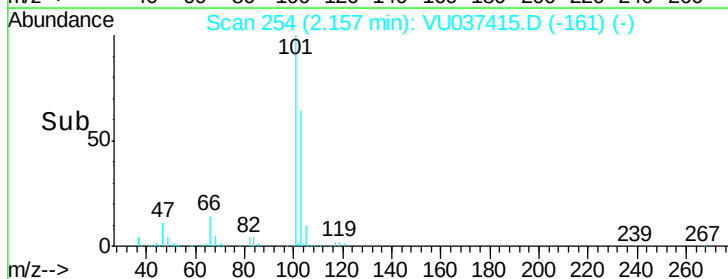
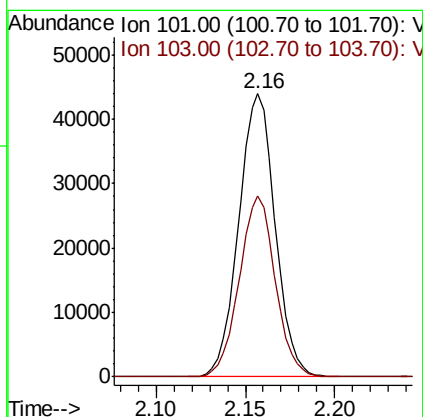
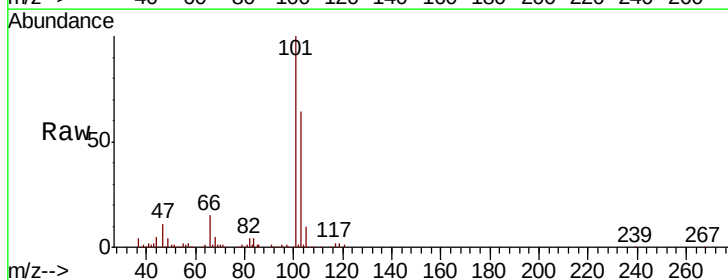
Instrument :
MSVOA_U
ClientSampleId :

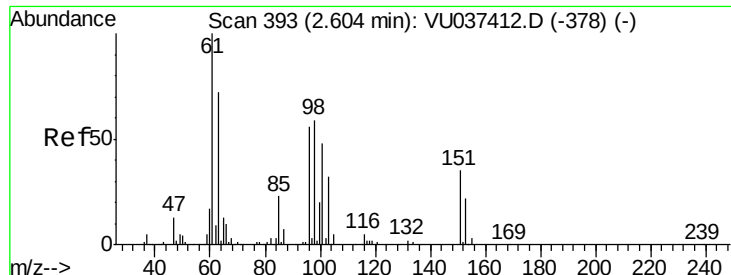
Tot Ion: 64 Resp: 26065
Ion Ratio Lower Upper
64 100
66 33.6 24.8 46.0



#9
Trichlorofluoromethane
Concen: 4.598 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

Tgt Ion: 101 Resp: 62662
Ion Ratio Lower Upper
101 100
103 63.4 51.8 77.6





#10

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

Concen: 4.666 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Instrument :

MSVOA_U

ClientSampled :

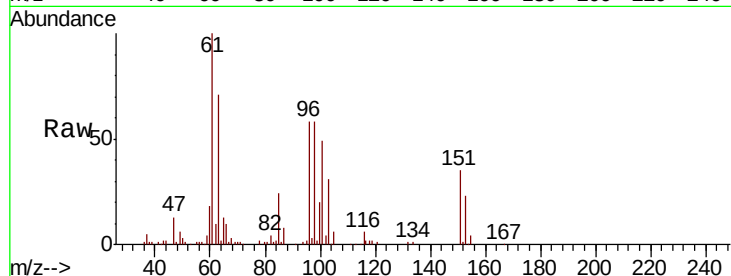
Tot Ion:101 Resp: 38750

Ion Ratio Lower Upper

101 100

85 48.6 39.0 58.6

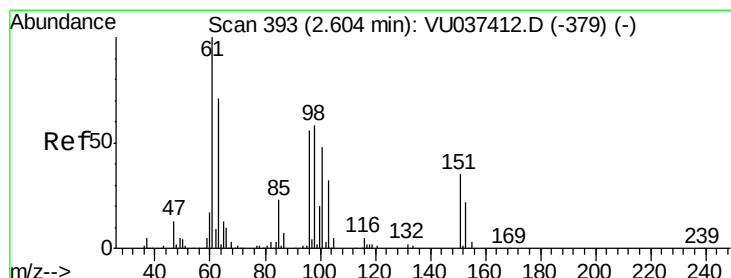
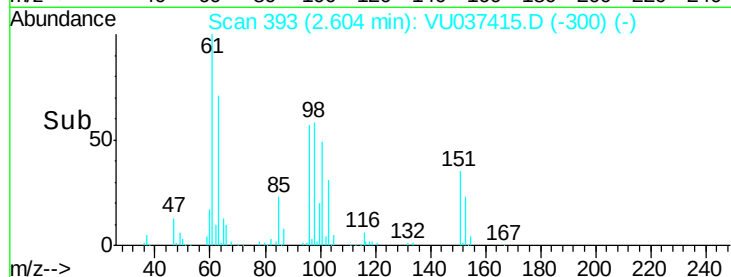
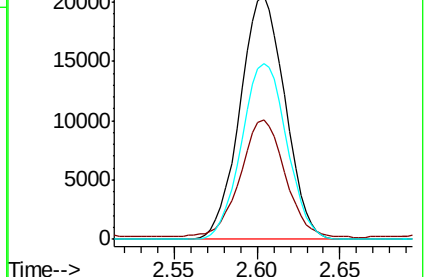
151 72.7 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): VU037415.D (-300) (-)

Ion 85.00 (84.70 to 85.70): VU037415.D (-300) (-)

Ion 151.00 (150.70 to 151.70): VU037415.D (-300) (-)



#12

1,1-Dichloroethene

Concen: 4.593 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

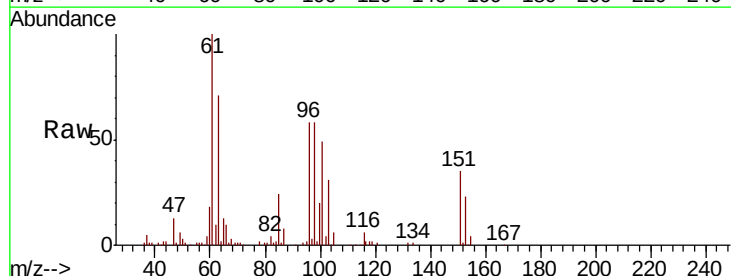
Tgt Ion: 96 Resp: 39284

Ion Ratio Lower Upper

96 100

61 173.6 125.4 232.8

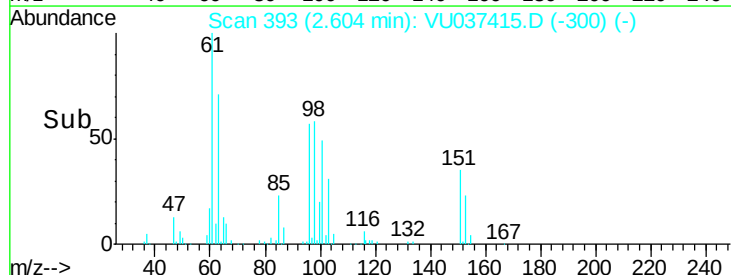
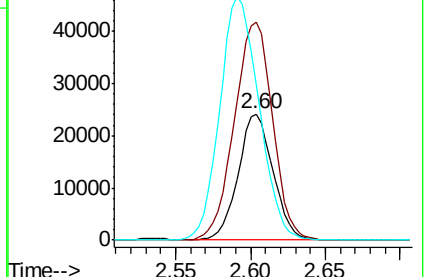
63 123.1 90.9 168.7

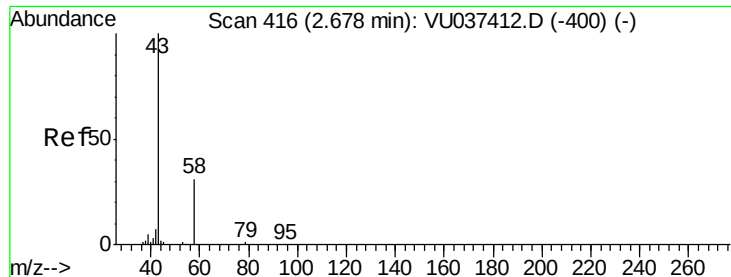


Abundance Ion 96.00 (95.70 to 96.70): VU037415.D (-300) (-)

Ion 61.05 (60.75 to 61.75): VU037415.D (-300) (-)

Ion 63.00 (62.70 to 63.70): VU037415.D (-300) (-)





#13

Acetone

Concen: 46.094 ug/L

RT: 2.69 min Scan# 419

Delta R.T. 0.01 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

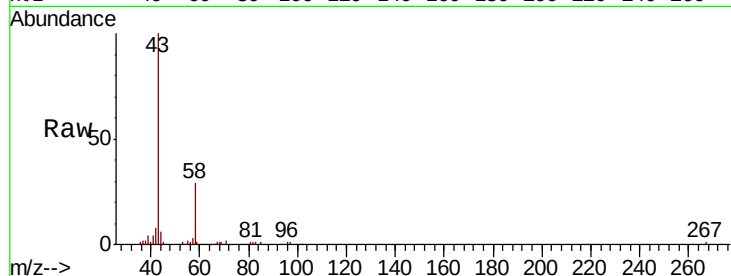
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 69295

Ion Ratio Lower Upper

43 100

58 34.7 0.0 66.0



Abundance Ion 43.05 (42.75 to 43.75): VU037415.D (-323) (-)

Ion 58.05 (57.75 to 58.75): VU037415.D (-323) (-)

25000

20000

15000

10000

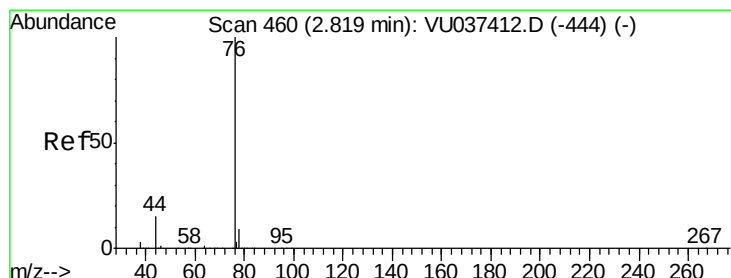
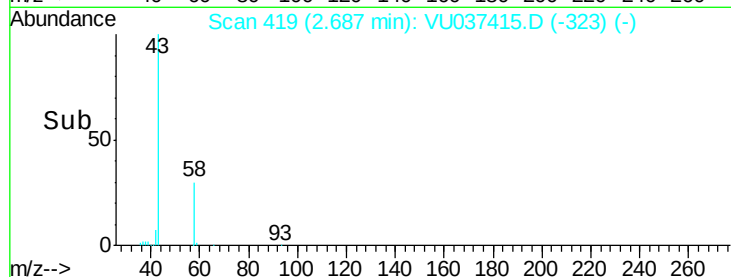
5000

0

2.69

2.60 2.70 2.80

Time-->



#14

Carbon disulfide

Concen: 4.633 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037415.D

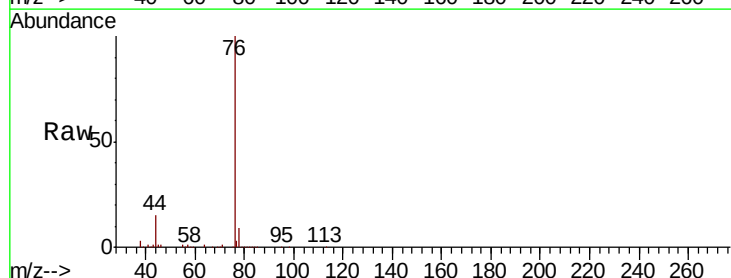
Acq: 28 Mar 2020 13:06

Tgt Ion: 76 Resp: 135557

Ion Ratio Lower Upper

76 100

78 9.2 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU037415.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU037415.D (-367) (-)

80000

60000

40000

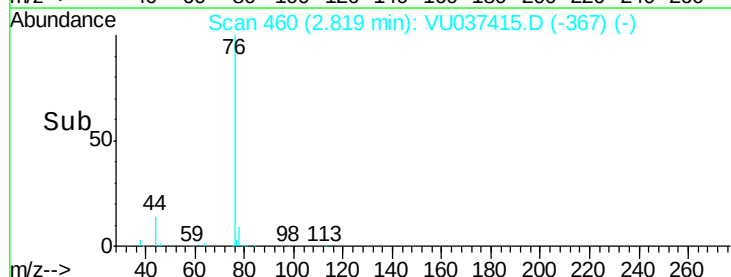
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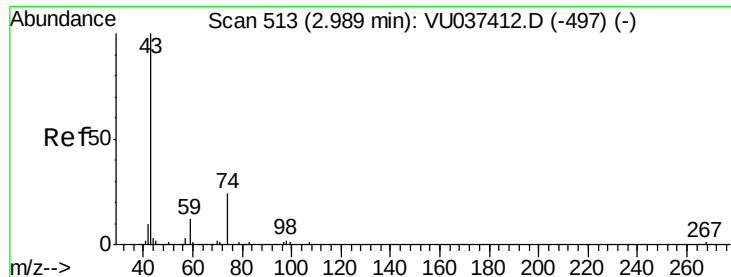
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2.82

2.75 2.80 2.85 2.90

Time-->

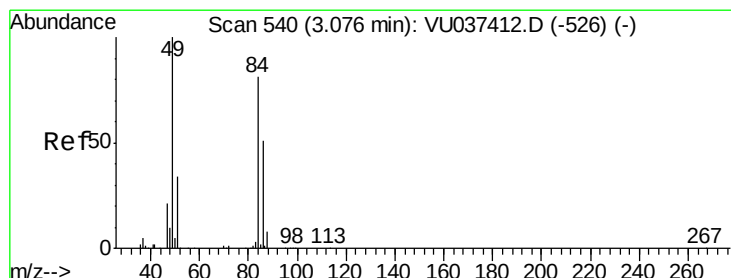
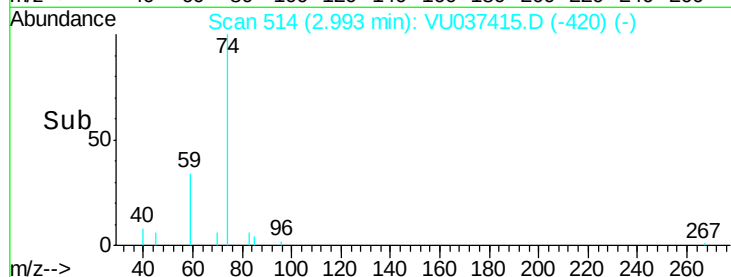
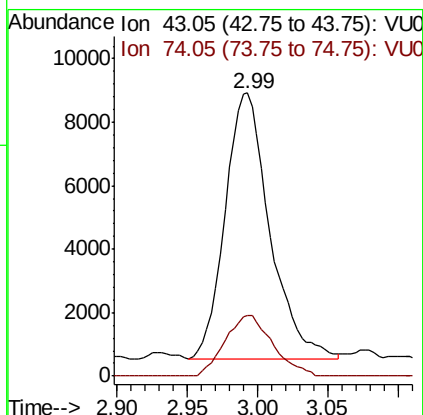
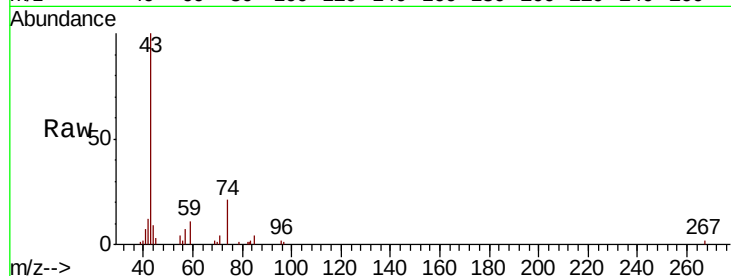




#15
Methyl Acetate
Concen: 4.415 ug/L
RT: 2.99 min Scan# 514
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

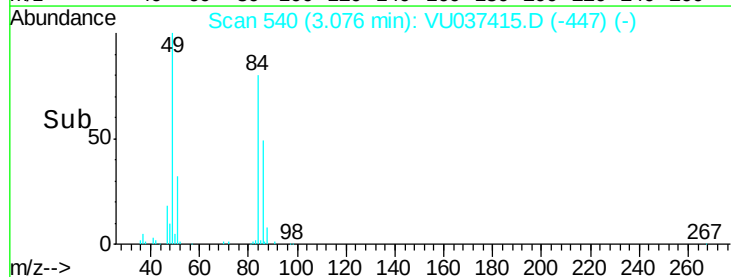
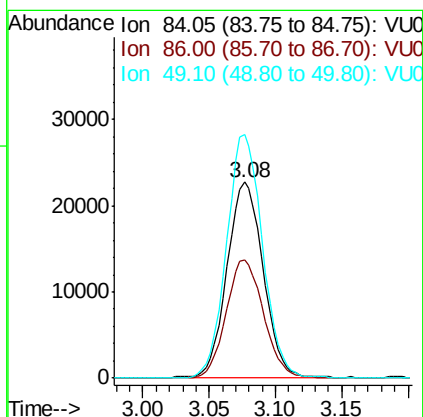
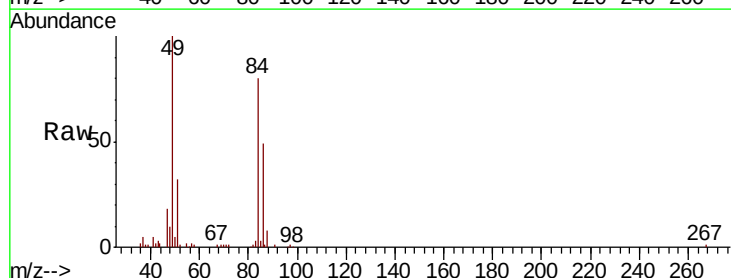
Instrument :
MSVOA_U
ClientSampled :

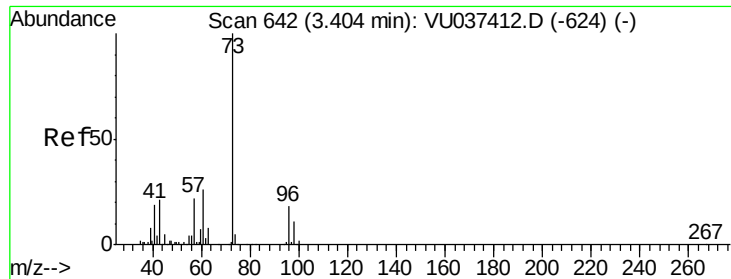
Tot Ion: 43 Resp: 18543
Ion Ratio Lower Upper
43 100
74 24.4 19.8 29.6



#16
Methylene chloride
Concen: 4.532 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

Tgt Ion: 84 Resp: 43316
Ion Ratio Lower Upper
84 100
86 60.4 43.6 81.0
49 124.3 86.4 160.4

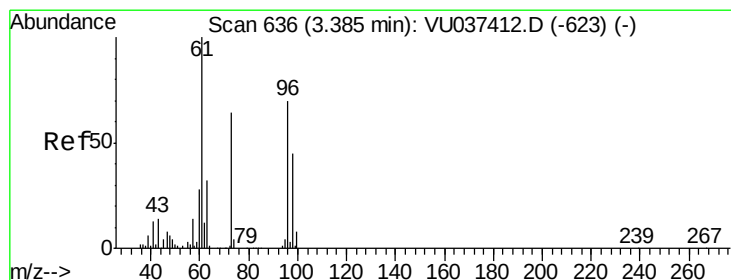
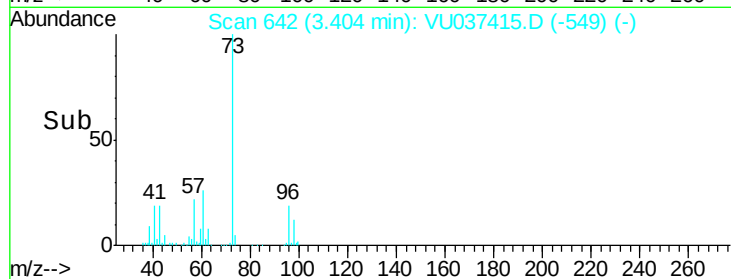
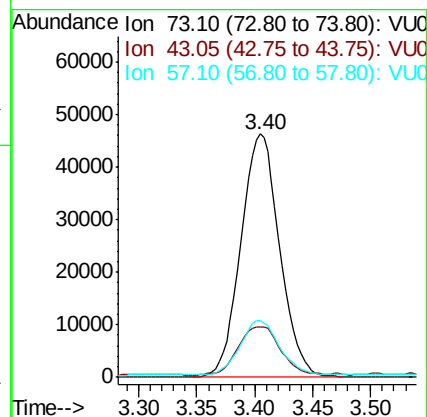
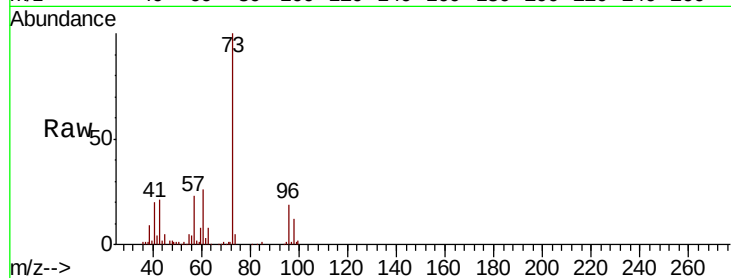




#17
Methyl tert-butyl Ether
Concen: 4.633 ug/L
RT: 3.40 min Scan# 642
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

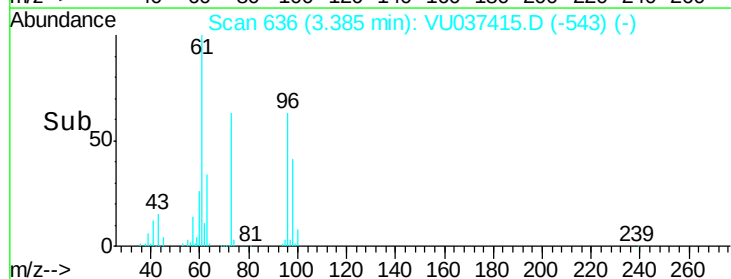
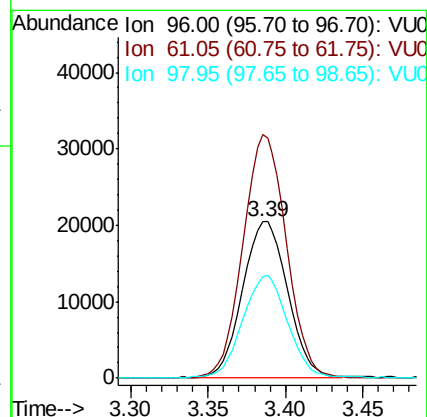
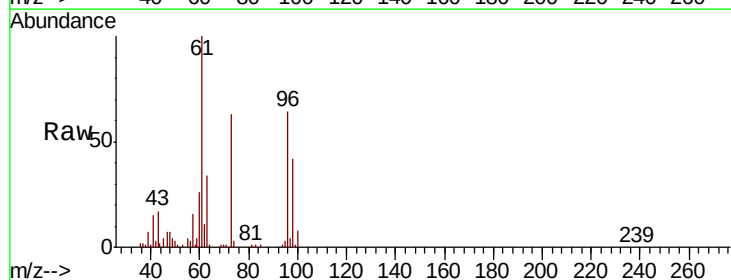
Instrument :
MSVOA_U
ClientSampleId :

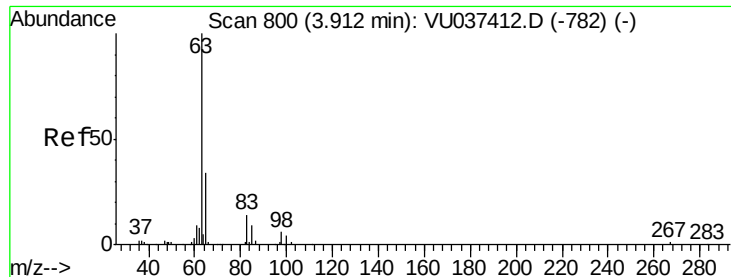
Tot Ion: 73 Resp: 107836
Ion Ratio Lower Upper
73 100
43 22.0 17.4 26.2
57 22.8 17.3 25.9



#18
trans-1,2-Dichloroethene
Concen: 4.580 ug/L
RT: 3.39 min Scan# 636
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

Tgt Ion: 96 Resp: 40960
Ion Ratio Lower Upper
96 100
61 156.0 99.9 185.5
98 64.9 45.4 84.4

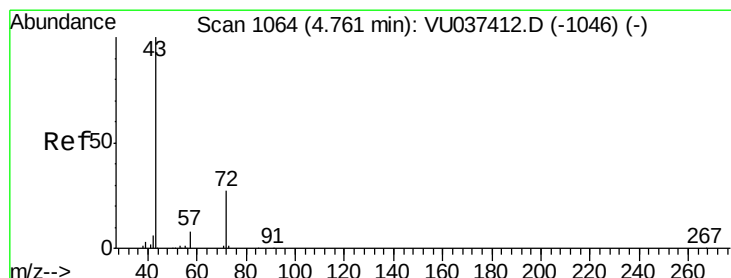
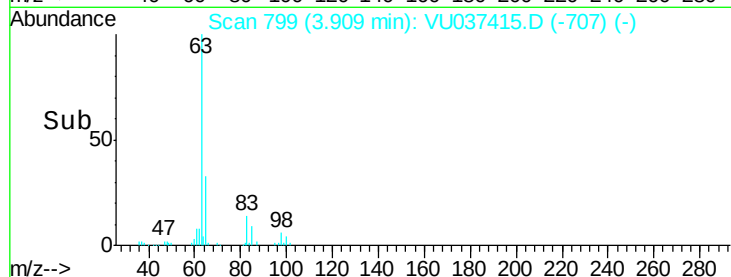
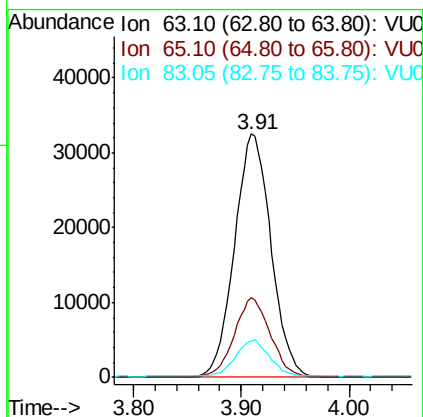
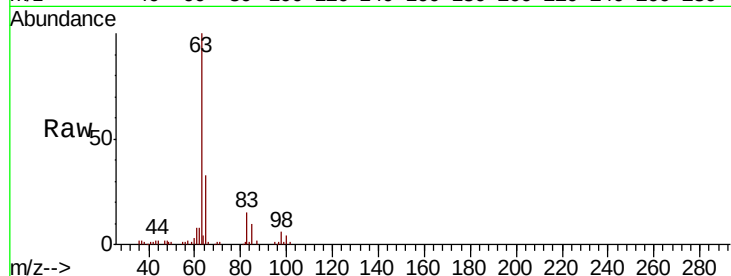




#19
 1,1-Dichloroethane
 Concen: 4.584 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU037415.D
 Acq: 28 Mar 2020 13:06

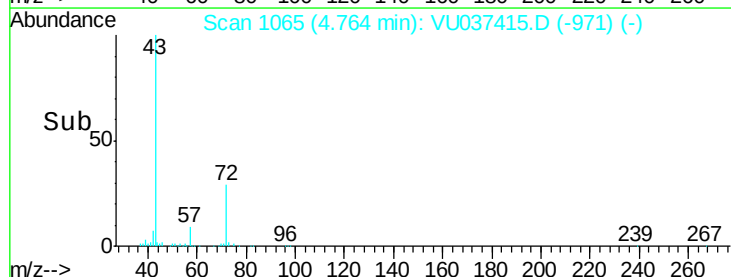
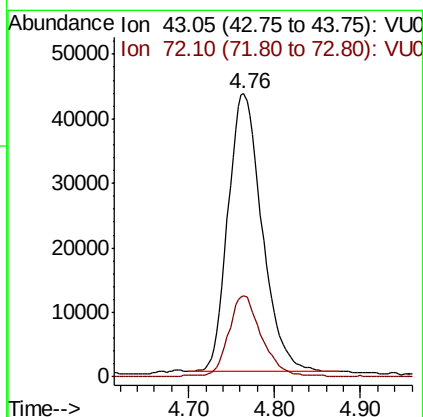
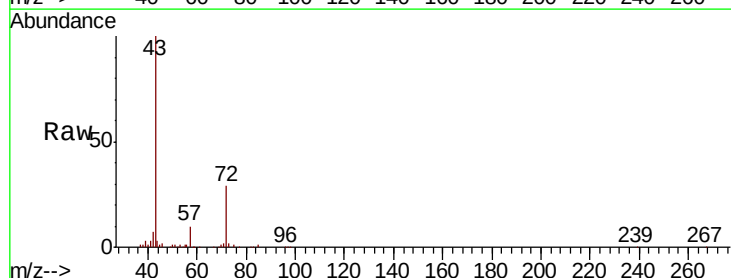
Instrument :
 MSVOA_U
 ClientSampleId :

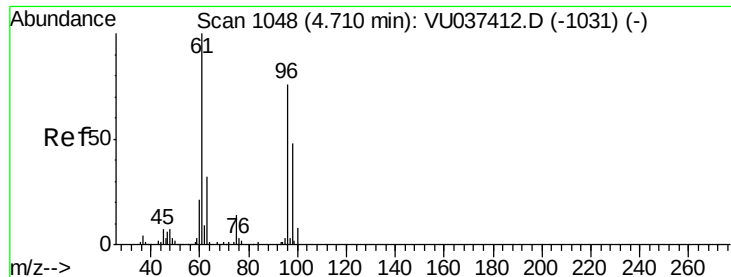
Tot Ion	Ratio	Lower	Upper
63	100		
65	32.6	23.7	43.9
83	15.0	10.6	19.6



#21
 2-Butanone
 Concen: 46.478 ug/L
 RT: 4.76 min Scan# 1065
 Delta R.T. 0.00 min
 Lab File: VU037415.D
 Acq: 28 Mar 2020 13:06

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.5	14.2	42.6





#22

cis-1,2-Dichloroethene

Concen: 4.548 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Instrument :

MSVOA_U

ClientSampleId :

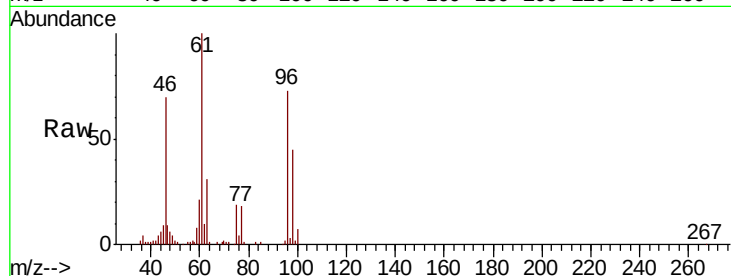
Tot Ion: 96 Resp: 45584

Ion Ratio Lower Upper

96 100

61 137.1 91.6 170.2

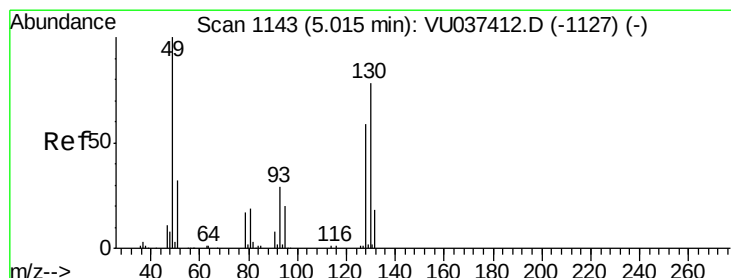
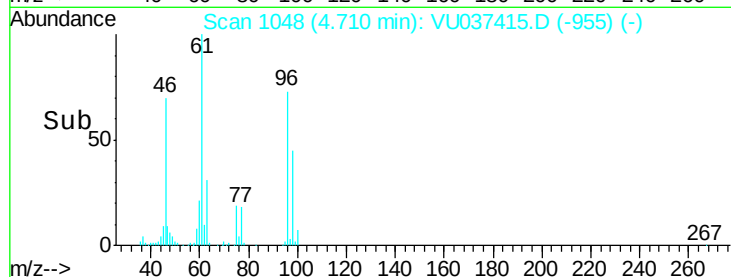
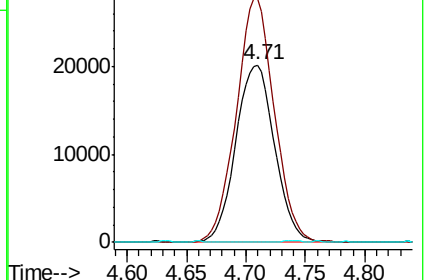
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037415.D (-955) (-)

Ion 61.05 (60.75 to 61.75): VU037415.D (-955) (-)

Ion 68.15 (67.85 to 68.85): VU037415.D (-955) (-)



#23

Bromochloromethane

Concen: 4.576 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Tgt Ion: 128 Resp: 20259

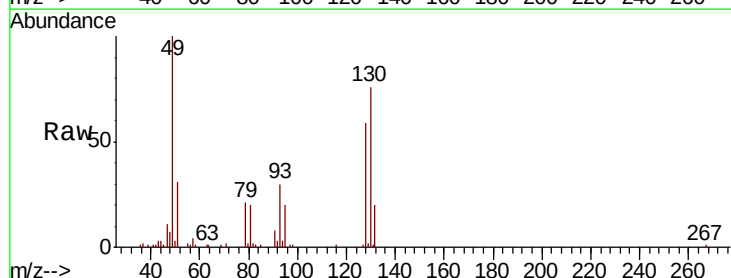
Ion Ratio Lower Upper

128 100

49 169.2 119.1 221.3

130 128.8 92.6 172.0

51 53.3 43.7 65.5

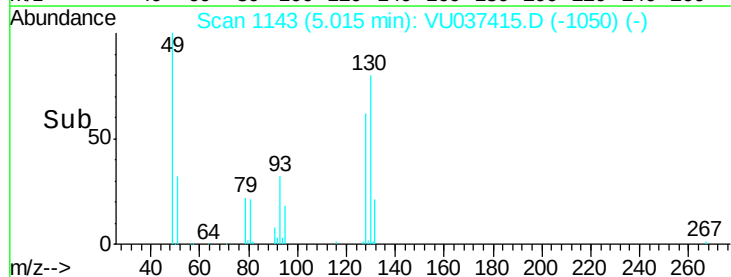
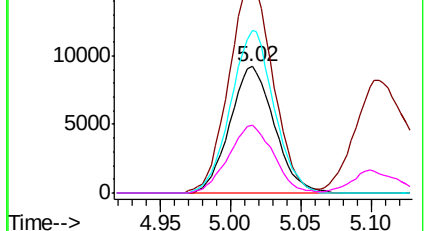


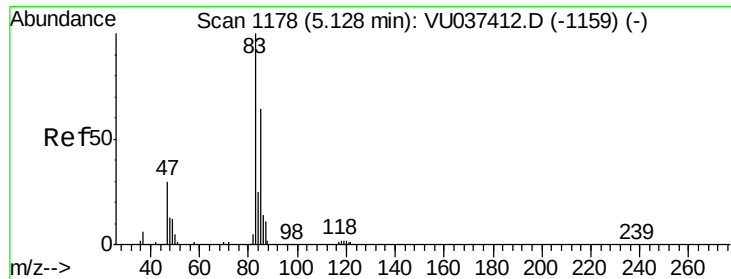
Abundance Ion 127.90 (127.60 to 128.60): VU037415.D (-1050) (-)

Ion 49.10 (48.80 to 49.80): VU037415.D (-1050) (-)

Ion 129.95 (129.65 to 130.65): VU037415.D (-1050) (-)

Ion 51.05 (50.75 to 51.75): VU037415.D (-1050) (-)

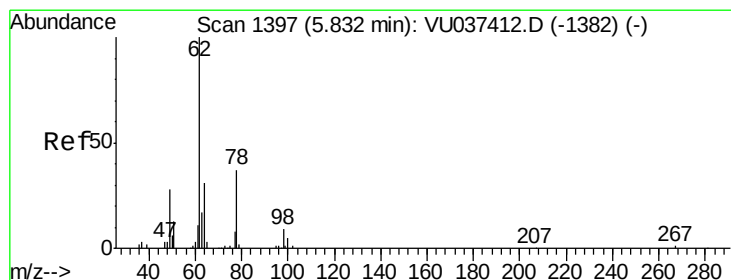
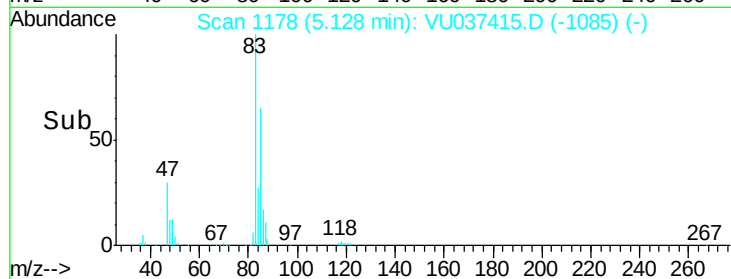
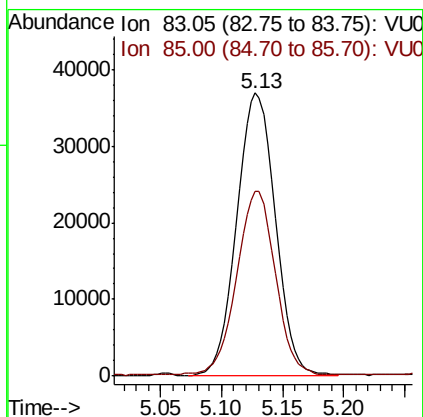
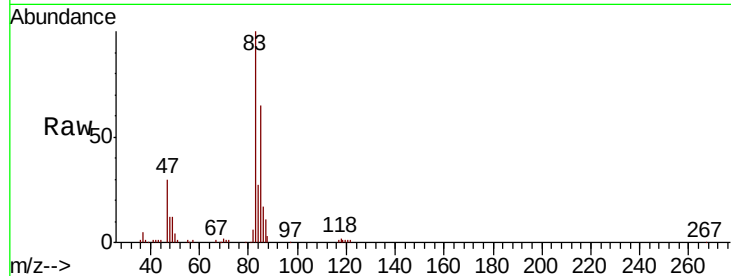




#25
Chloroform
Concen: 4.570 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

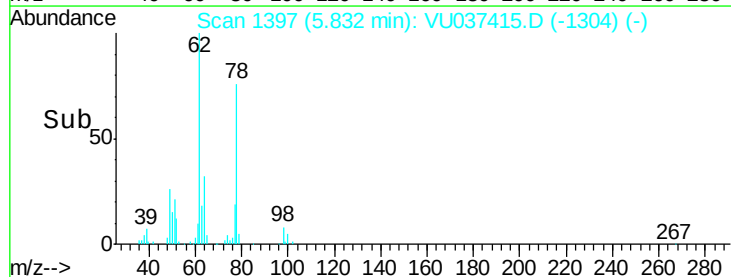
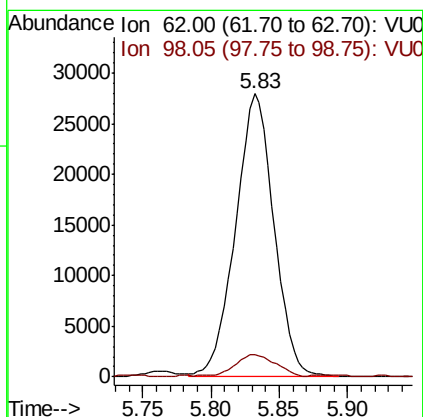
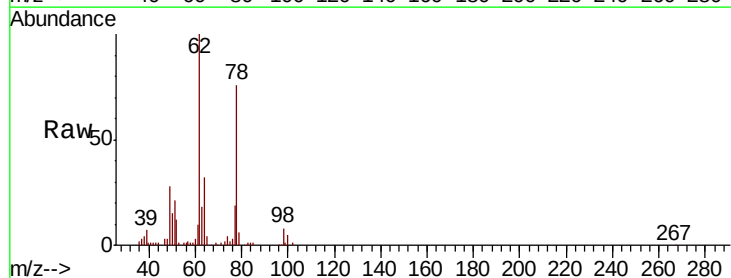
Instrument :
MSVOA_U
ClientSampleId :

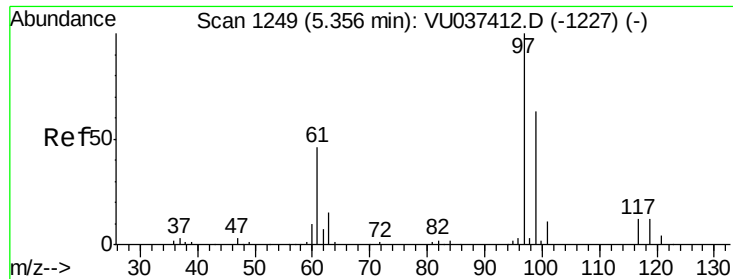
Tot Ion: 83 Resp: 80356
Ion Ratio Lower Upper
83 100
85 65.4 45.4 84.4



#27
1,2-Dichloroethane
Concen: 4.658 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

Tgt Ion: 62 Resp: 54713
Ion Ratio Lower Upper
62 100
98 8.1 7.3 10.9

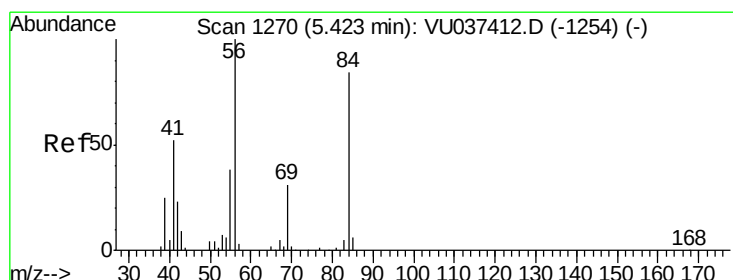
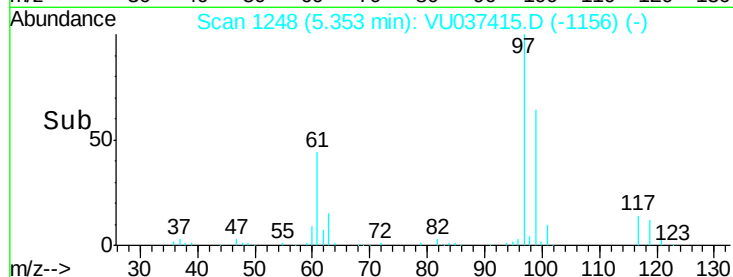
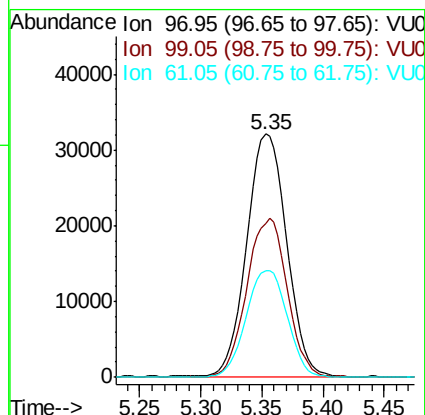
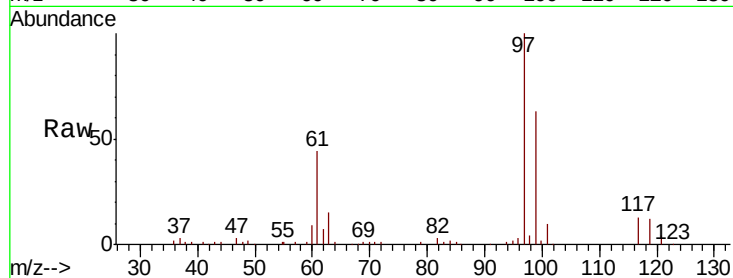




#29
 1,1,1-Trichloroethane
 Concen: 4.664 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU037415.D
 Acq: 28 Mar 2020 13:06

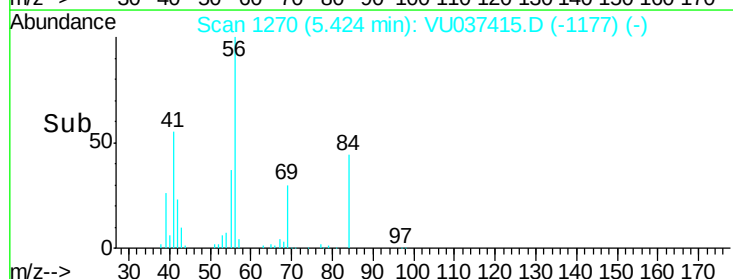
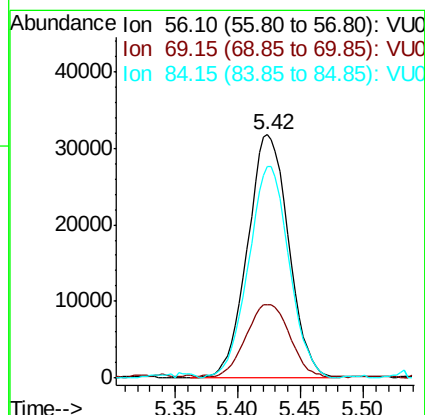
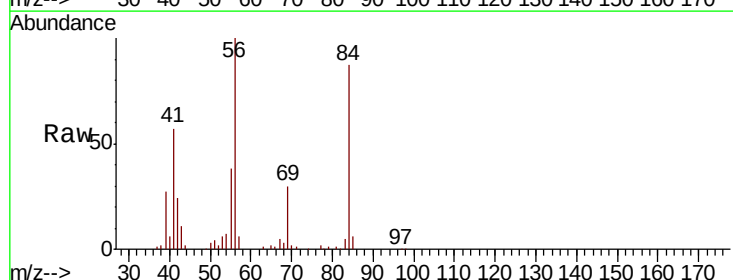
Instrument :
 MSVOA_U
 ClientSampleId :

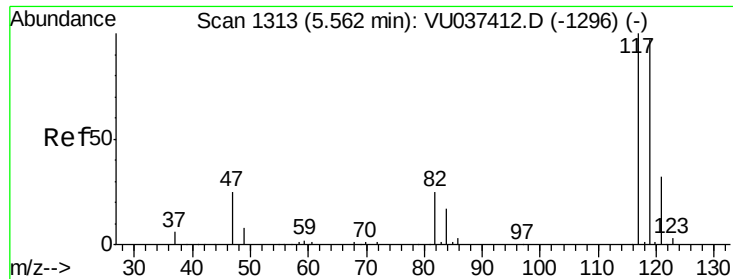
Tot Ion: 97 Resp: 73110
 Ion Ratio Lower Upper
 97 100
 99 65.8 51.0 76.6
 61 45.2 36.7 55.1



#30
 Cyclohexane
 Concen: 4.526 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU037415.D
 Acq: 28 Mar 2020 13:06

Tgt Ion: 56 Resp: 72692
 Ion Ratio Lower Upper
 56 100
 69 31.6 25.7 38.5
 84 85.8 67.1 100.7





#31

Carbon tetrachloride

Concen: 4.657 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Instrument :

MSVOA_U

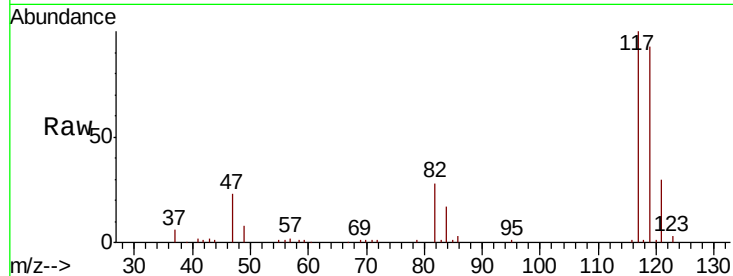
ClientSampleId :

Tot Ion:117 Resp: 63019

Ion Ratio Lower Upper

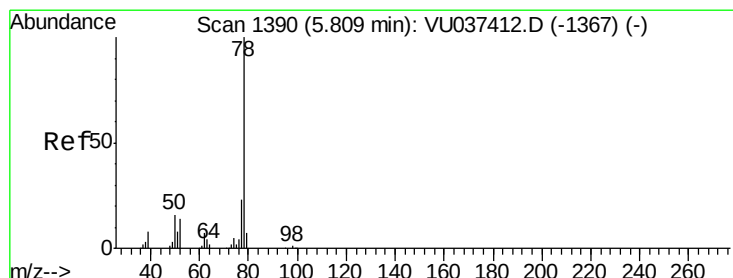
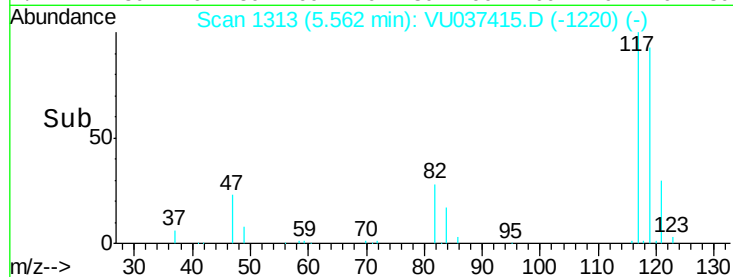
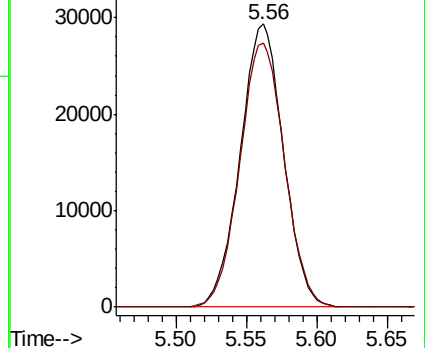
117 100

119 96.2 77.7 116.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.650 ug/L

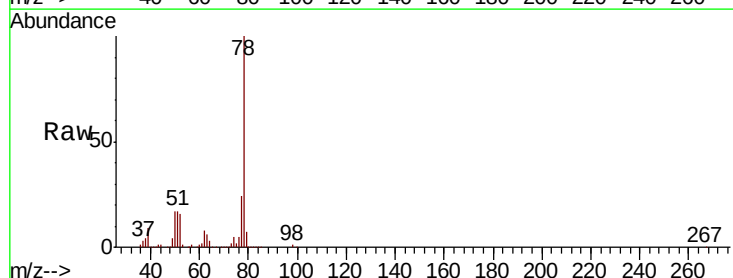
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Tgt Ion: 78 Resp: 171717



Abundance Ion 78.10 (77.80 to 78.80): VU0

100000

80000

60000

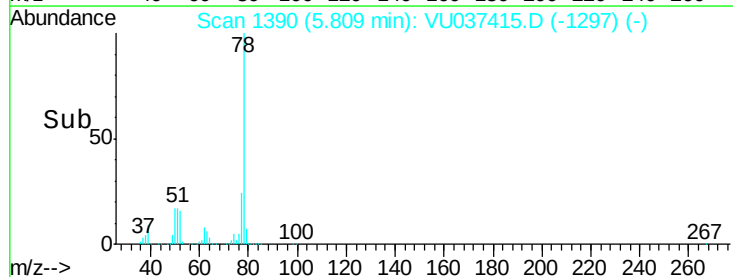
40000

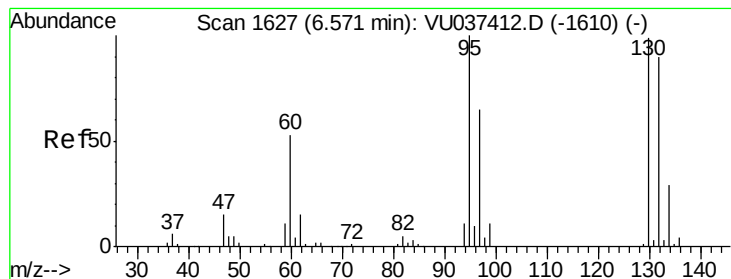
20000

0

5.70 5.80 5.90

Time-->





#34

Trichloroethene

Concen: 4.549 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 47851

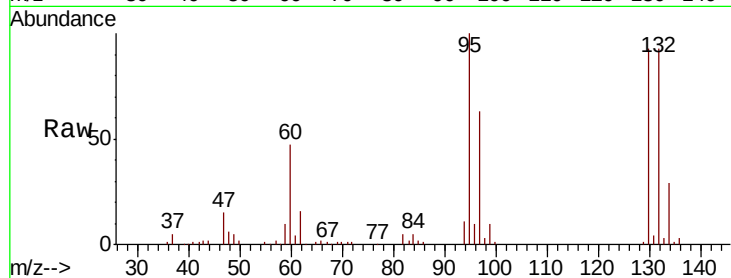
Ion Ratio Lower Upper

95 100

97 63.0 45.3 84.1

132 92.6 62.7 116.5

130 93.0 69.1 128.3

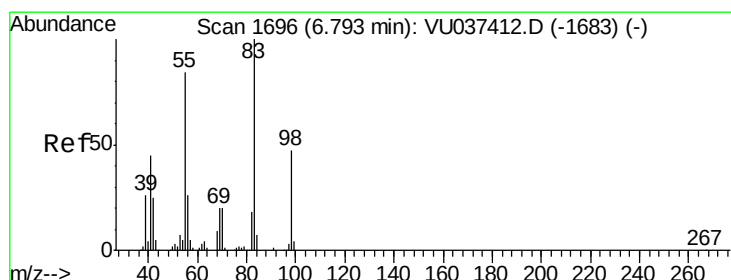
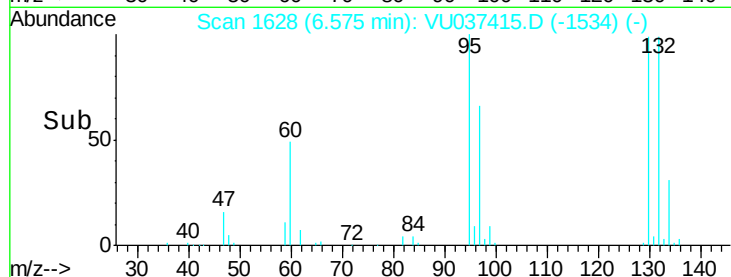
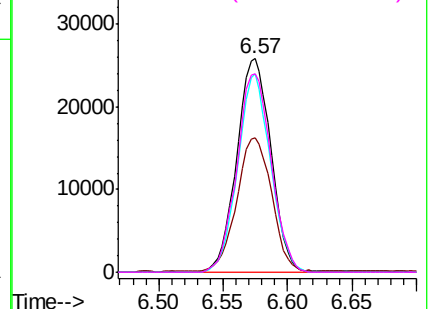


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.552 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

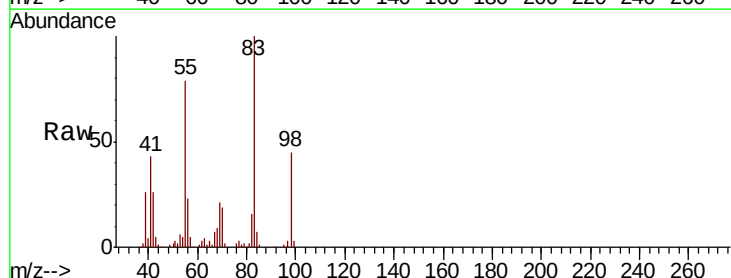
Tgt Ion: 83 Resp: 75780

Ion Ratio Lower Upper

83 100

55 77.8 64.2 96.4

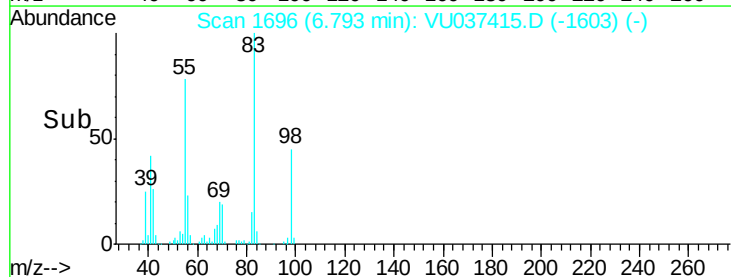
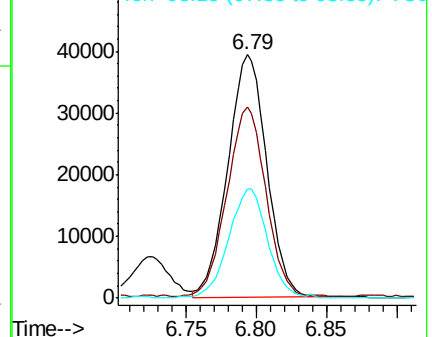
98 45.4 36.3 54.5

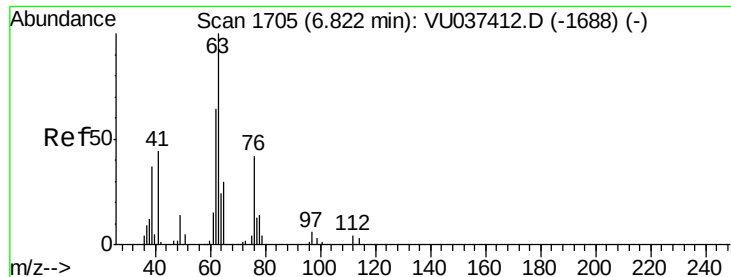


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

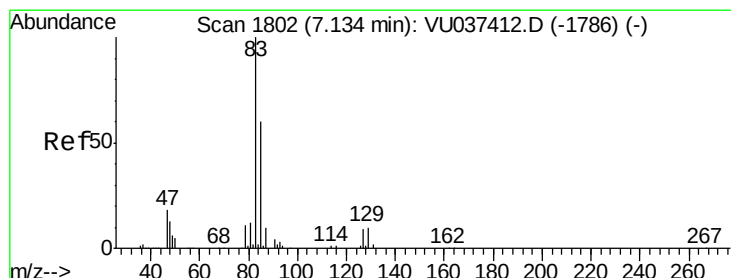
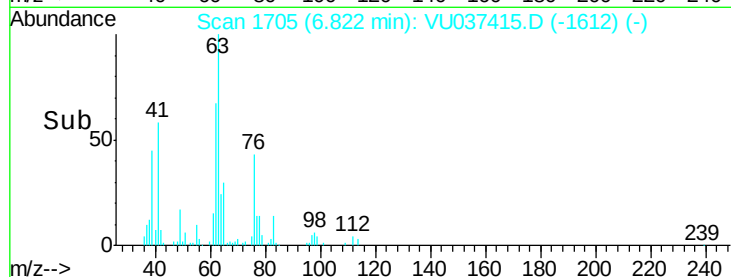
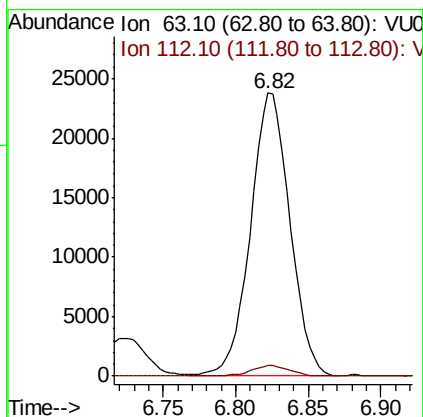
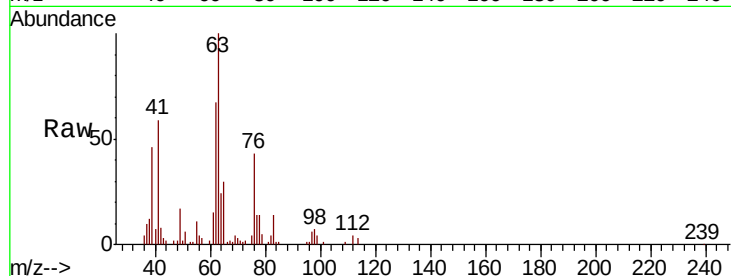




#37
 1,2-Dichloropropane
 Concen: 4.723 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU037415.D
 Acq: 28 Mar 2020 13:06

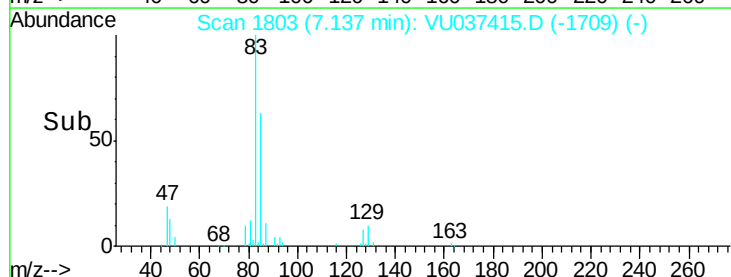
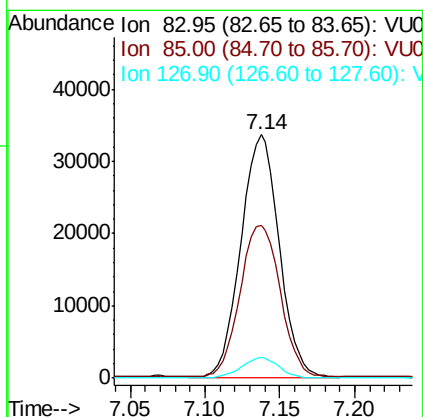
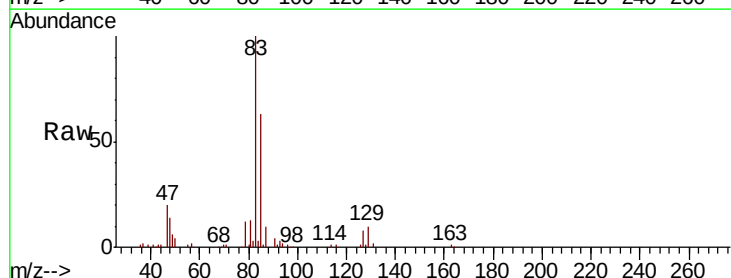
Instrument :
 MSVOA_U
 ClientSampled :

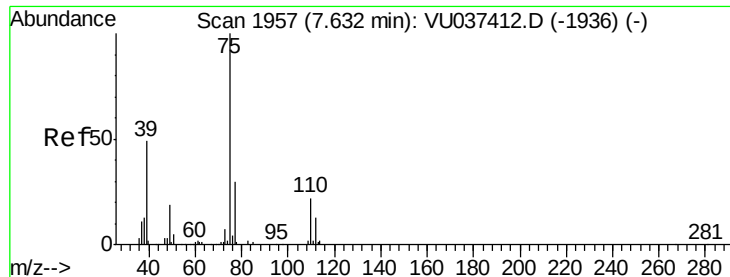
Tot Ion: 63 Resp: 45088
 Ion Ratio Lower Upper
 63 100
 112 3.5 3.0 4.6



#38
 Bromodichloromethane
 Concen: 4.572 ug/L
 RT: 7.14 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VU037415.D
 Acq: 28 Mar 2020 13:06

Tgt Ion: 83 Resp: 59693
 Ion Ratio Lower Upper
 83 100
 85 62.7 42.4 78.8
 127 8.4 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 4.658 ug/L

RT: 7.64 min Scan# 1958

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Instrument :

MSVOA_U

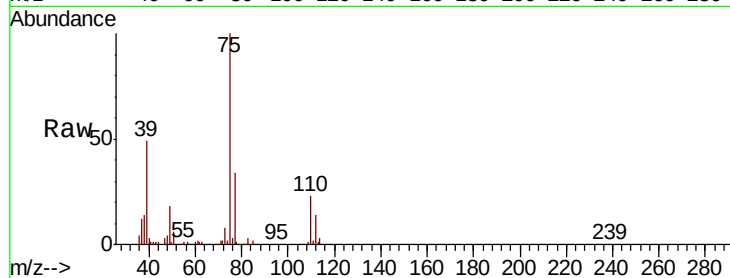
ClientSampleId :

Tot Ion: 75 Resp: 72509

Ion Ratio Lower Upper

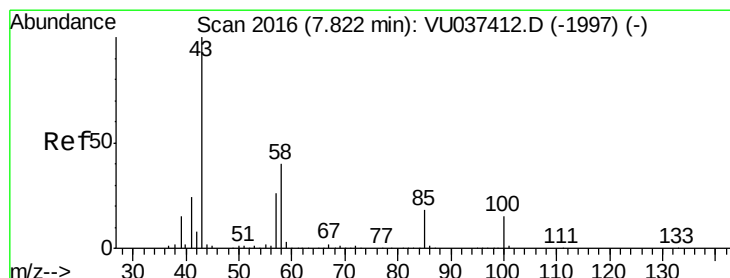
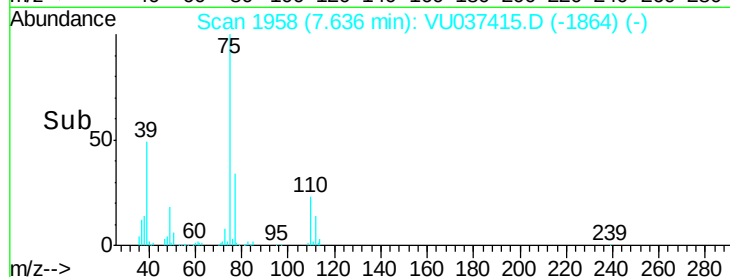
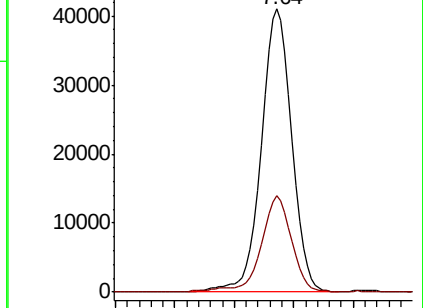
75 100

77 33.9 21.1 39.3



Abundance Ion 75.05 (74.75 to 75.75): VU037415.D (-1864) (-)

Ion 77.05 (76.75 to 77.75): VU037415.D (-1864) (-)



#40

4-Methyl-2-pentanone

Concen: 46.620 ug/L

RT: 7.82 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

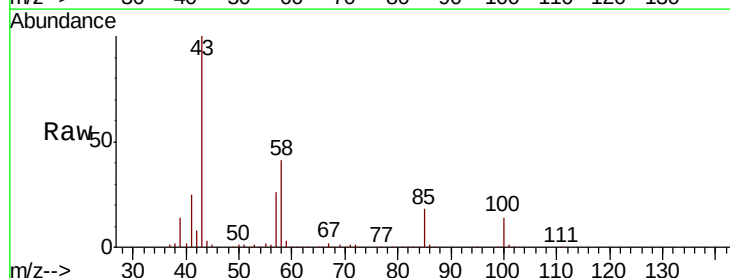
Tgt Ion: 43 Resp: 296306

Ion Ratio Lower Upper

43 100

58 40.4 32.1 48.1

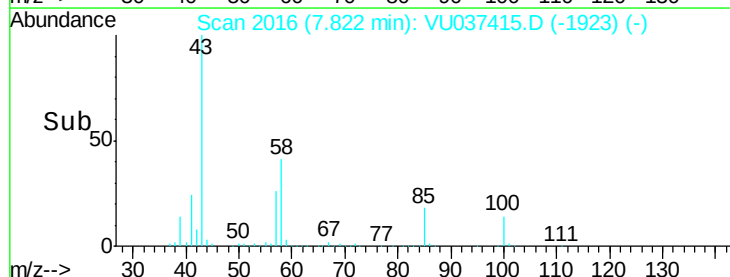
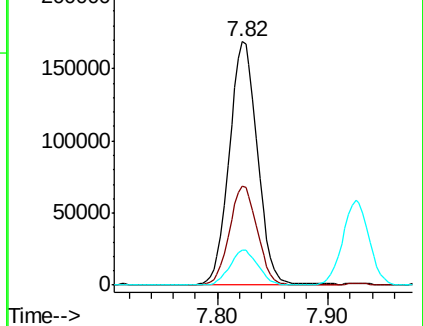
100 14.4 11.6 17.4

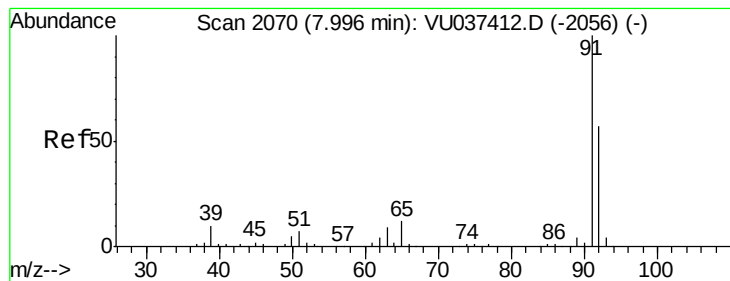


Abundance Ion 43.05 (42.75 to 43.75): VU037415.D (-1923) (-)

Ion 58.05 (57.75 to 58.75): VU037415.D (-1923) (-)

Ion 100.15 (99.85 to 100.85): VU037415.D (-1923) (-)





#42

Toluene

Concen: 4.687 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Instrument :

MSVOA_U

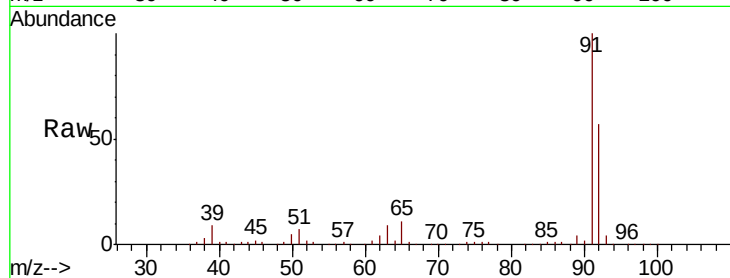
ClientSampleId :

Tot Ion: 91 Resp: 186550

Ion Ratio Lower Upper

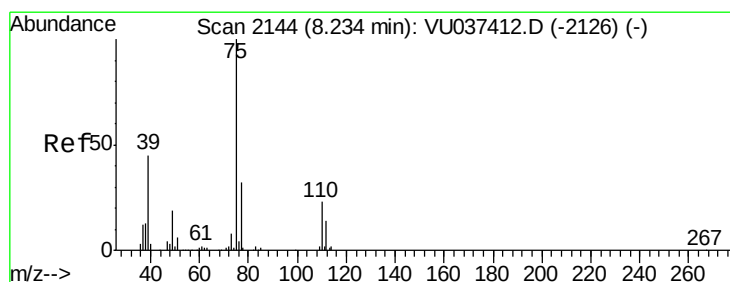
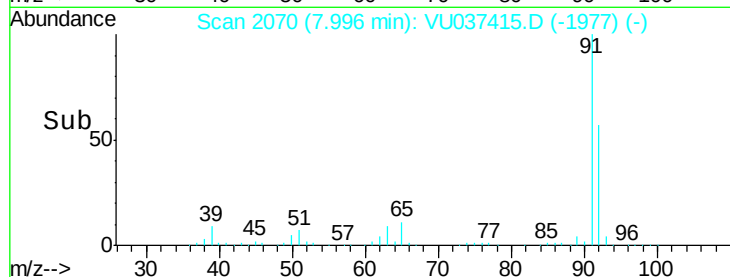
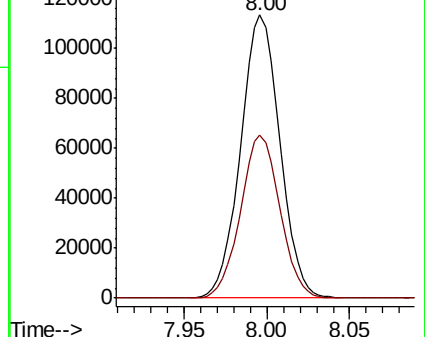
91 100

92 57.5 39.8 73.8



Abundance Ion 91.15 (90.85 to 91.85): VU037415.D (-1977) (-)

Ion 92.15 (91.85 to 92.85): VU037415.D (-1977) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.702 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU037415.D

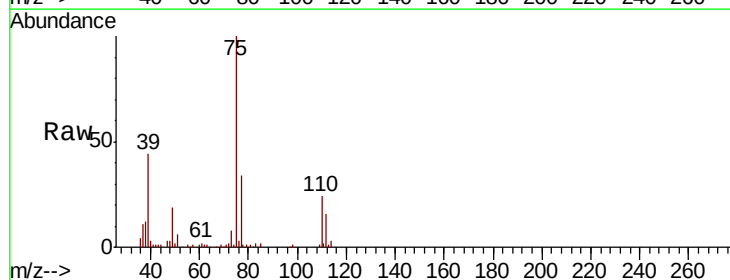
Acq: 28 Mar 2020 13:06

Tgt Ion: 75 Resp: 65443

Ion Ratio Lower Upper

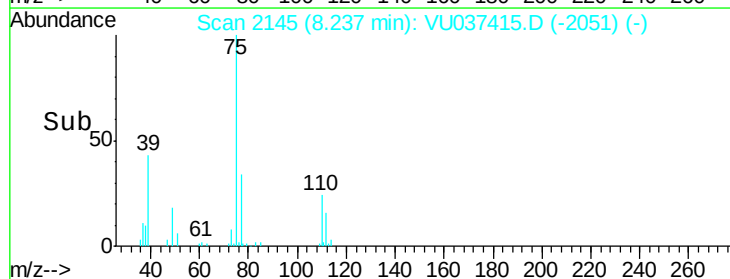
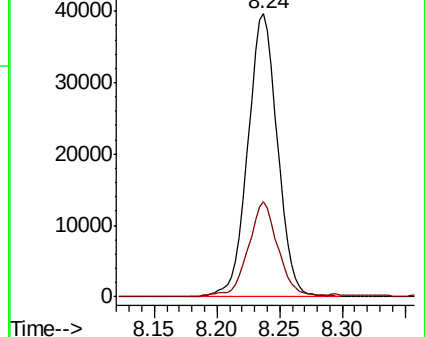
75 100

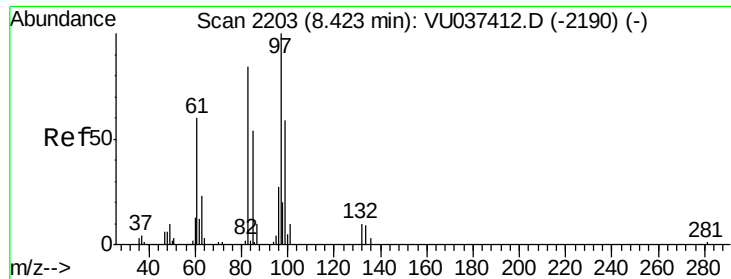
77 33.8 22.7 42.1



Abundance Ion 75.05 (74.75 to 75.75): VU037415.D (-2051) (-)

Ion 77.05 (76.75 to 77.75): VU037415.D (-2051) (-)

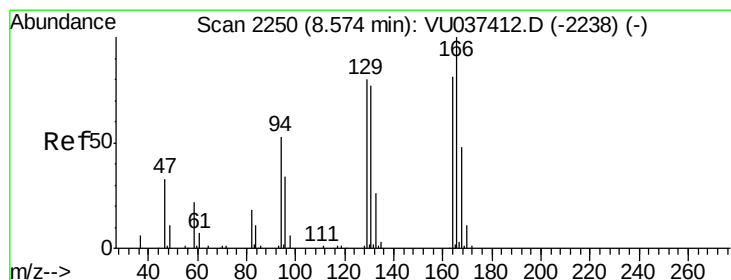
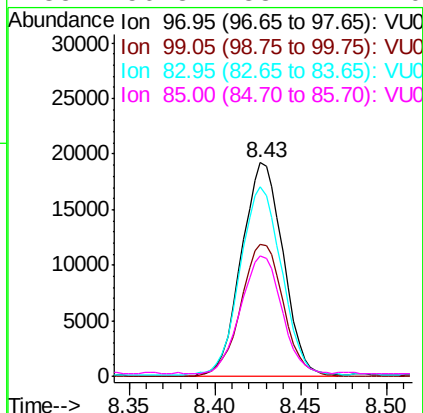
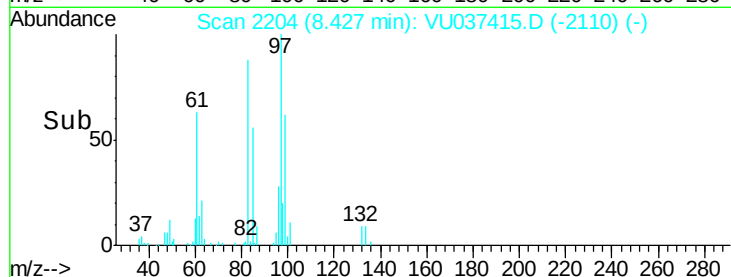
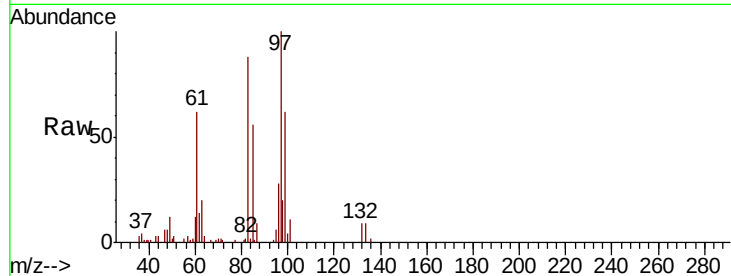




#45
 1,1,2-Trichloroethane
 Concen: 4.563 ug/L
 RT: 8.43 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VU037415.D
 Acq: 28 Mar 2020 13:06

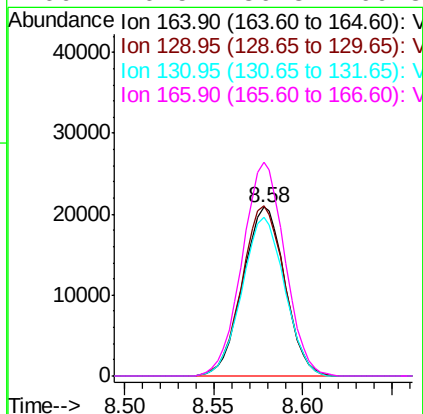
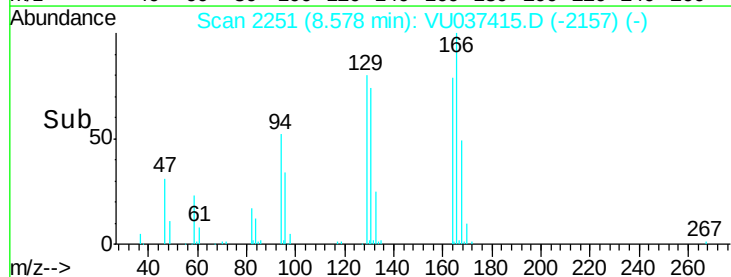
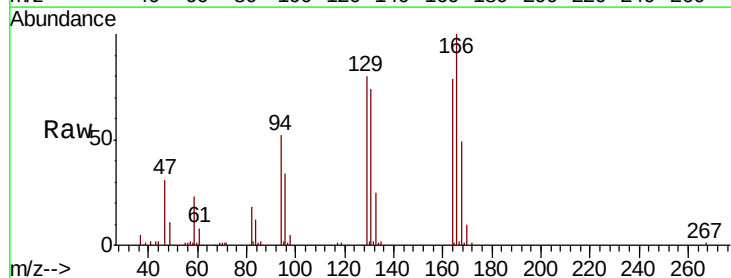
Instrument :
 MSVOA_U
 ClientSampleId :

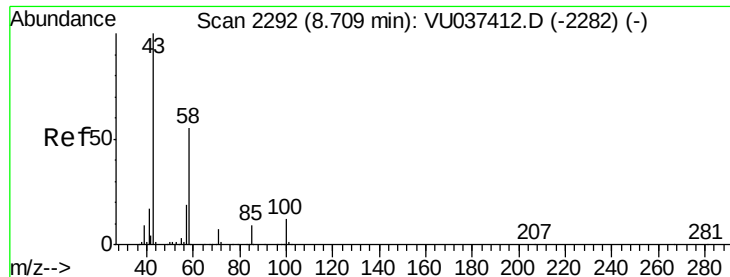
Tot Ion:	97	Resp:	32576
Ion	Ratio	Lower	Upper
97	100		
99	61.5	41.1	76.3
83	88.4	58.7	108.9
85	56.3	38.2	71.0



#47
 Tetrachloroethene
 Concen: 4.767 ug/L
 RT: 8.58 min Scan# 2251
 Delta R.T. 0.00 min
 Lab File: VU037415.D
 Acq: 28 Mar 2020 13:06

Tgt Ion:	164	Resp:	34540
Ion	Ratio	Lower	Upper
164	100		
129	101.0	68.8	127.8
131	93.7	66.9	124.3
166	126.5	86.3	160.3

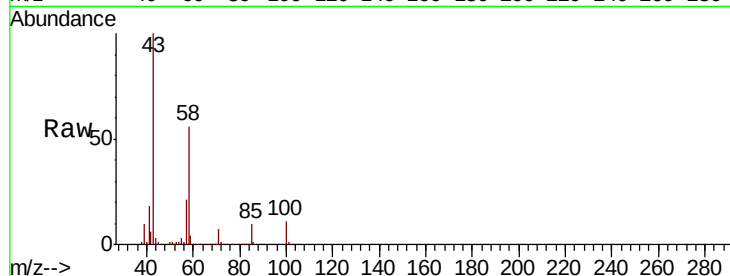




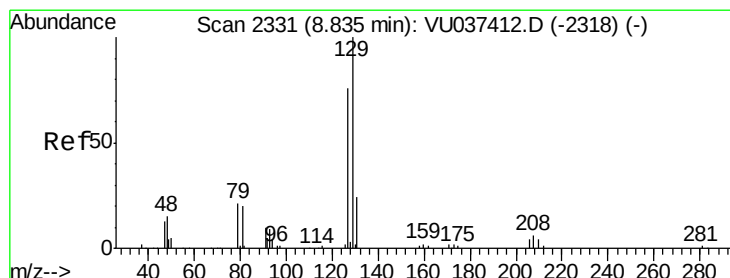
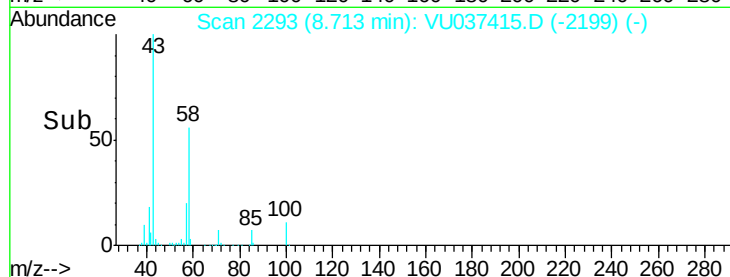
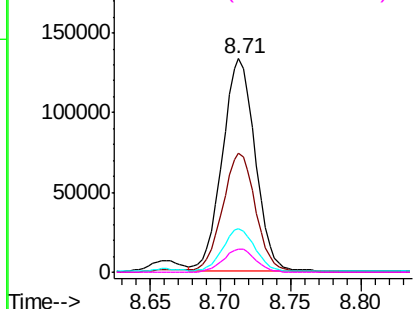
#48
2-Hexanone
Concen: 47.210 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 216281
Ion Ratio Lower Upper
43 100
58 56.3 44.2 66.2
57 19.9 15.3 22.9
100 10.8 9.4 14.0

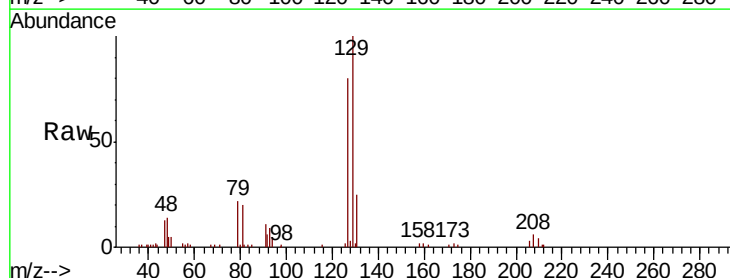


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

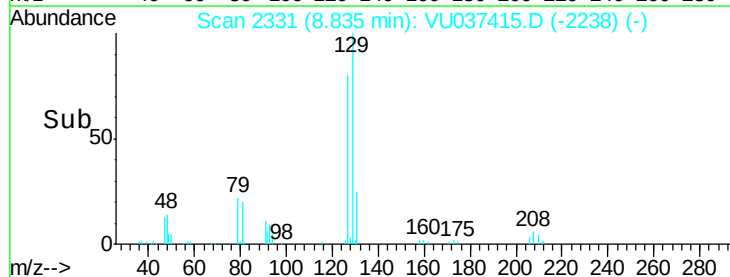
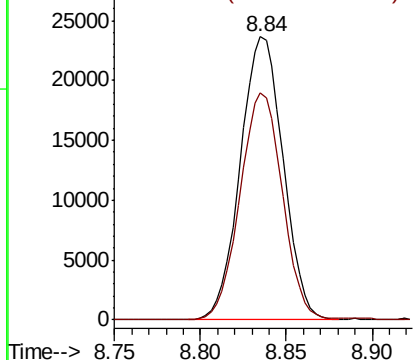


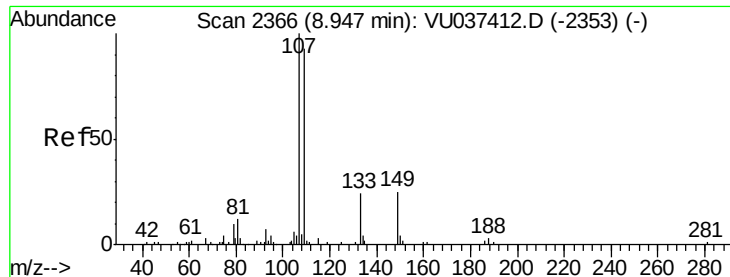
#49
Dibromochloromethane
Concen: 4.638 ug/L
RT: 8.84 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

Tgt Ion: 129 Resp: 40870
Ion Ratio Lower Upper
129 100
127 80.4 53.5 99.3



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

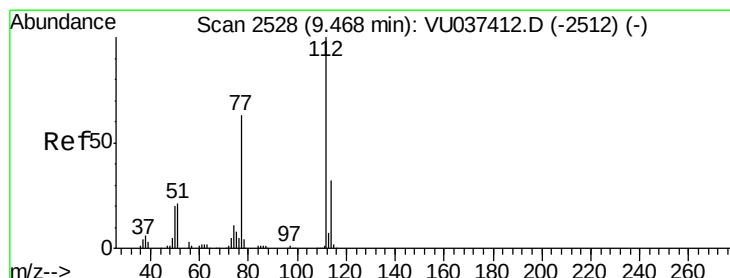
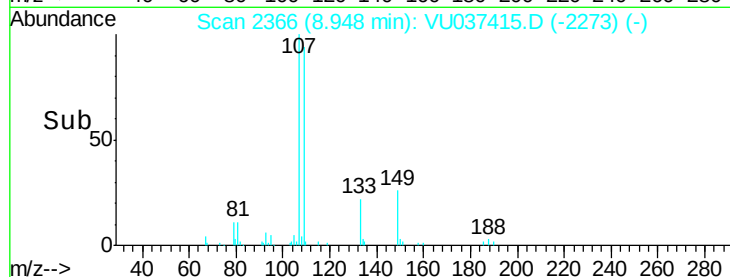
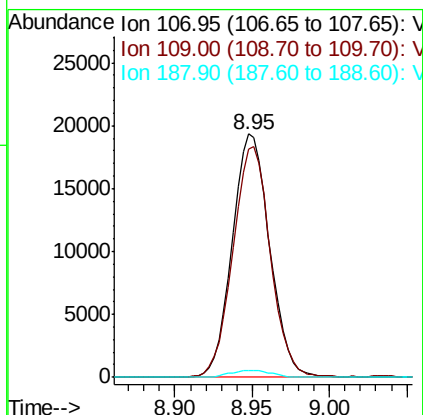
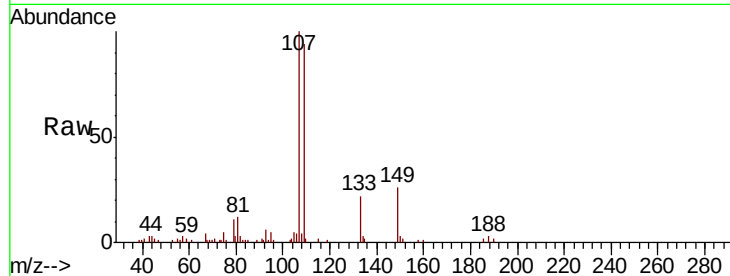




#50
 1,2-Dibromoethane
 Concen: 4.684 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037415.D
 Acq: 28 Mar 2020 13:06

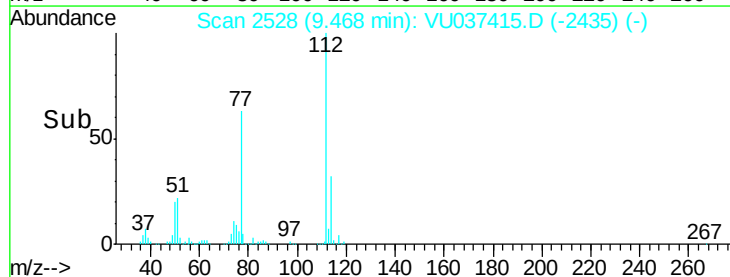
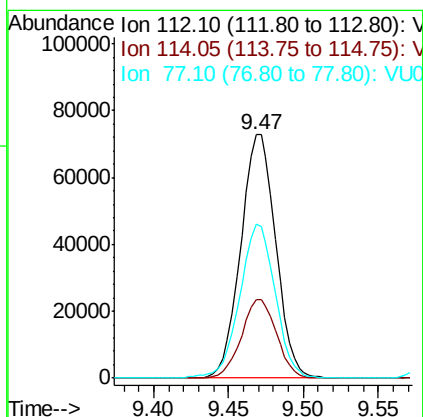
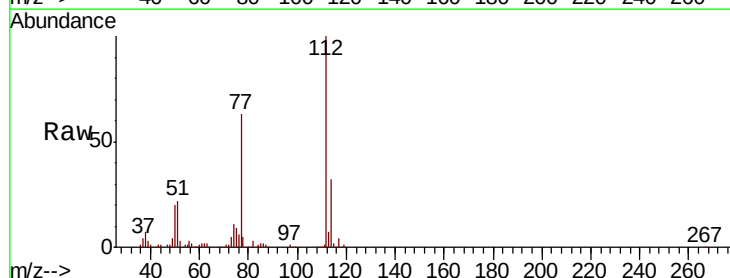
Instrument :
 MSVOA_U
 ClientSampled :

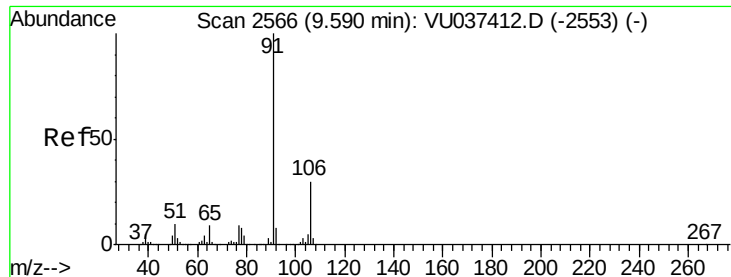
Tot Ion:107 Resp: 32463
 Ion Ratio Lower Upper
 107 100
 109 93.6 64.8 120.4
 188 3.0 2.6 4.0



#51
 Chlorobenzene
 Concen: 4.310 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037415.D
 Acq: 28 Mar 2020 13:06

Tgt Ion:112 Resp: 118492
 Ion Ratio Lower Upper
 112 100
 114 32.5 22.4 41.6
 77 63.1 50.5 75.7

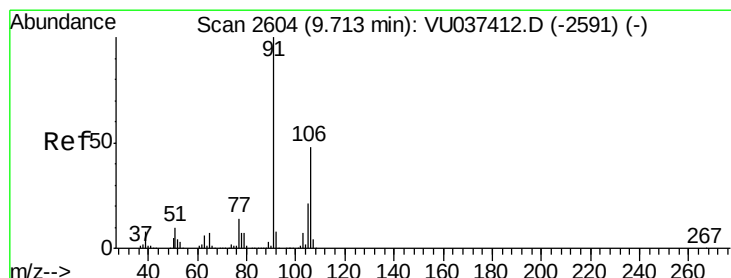
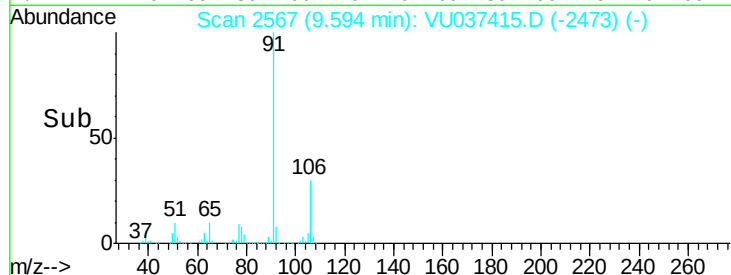
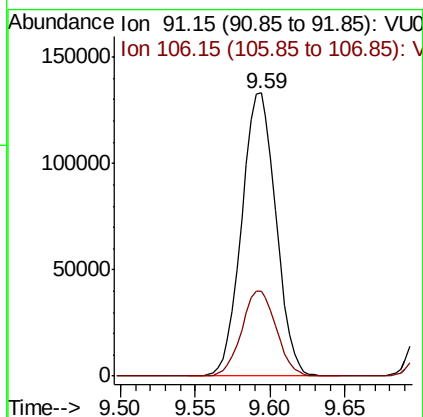
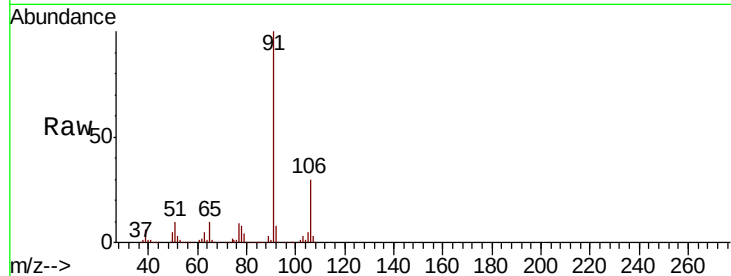




#52
Ethylbenzene
Concen: 4.657 ug/L
RT: 9.59 min Scan# 2567
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

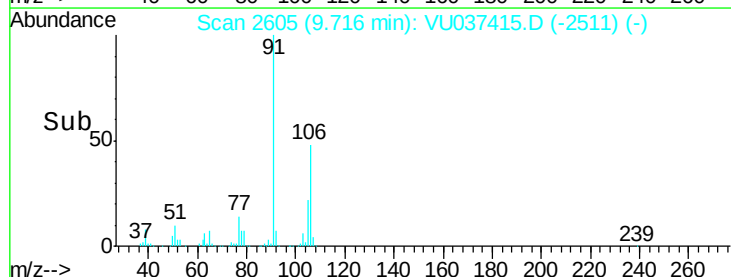
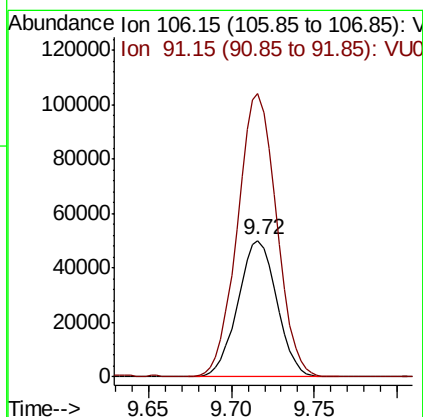
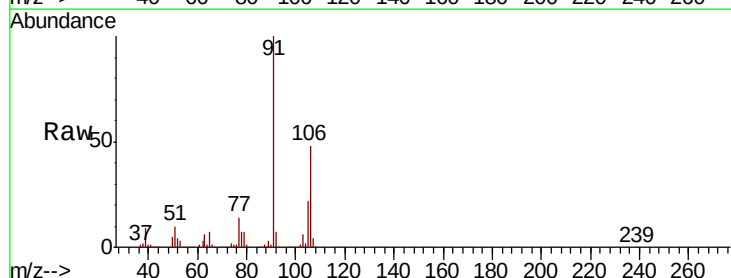
Instrument :
MSVOA_U
ClientSampled :

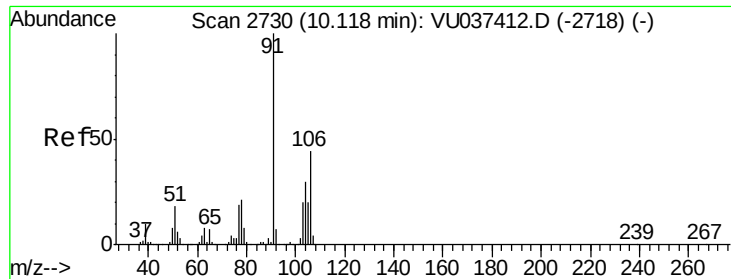
Tot Ion: 91 Resp: 212708
Ion Ratio Lower Upper
91 100
106 30.2 21.3 39.6



#53
m,p-Xylene
Concen: 4.736 ug/L
RT: 9.72 min Scan# 2605
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

Tgt Ion: 106 Resp: 81732
Ion Ratio Lower Upper
106 100
91 207.6 147.3 273.6

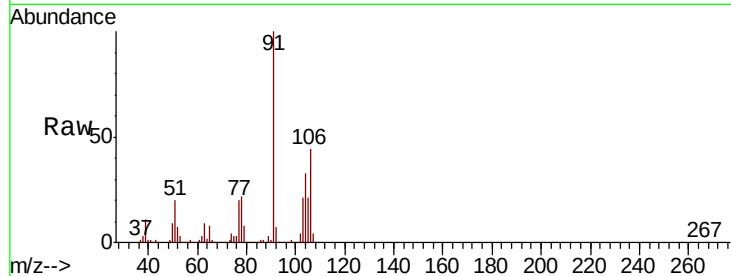




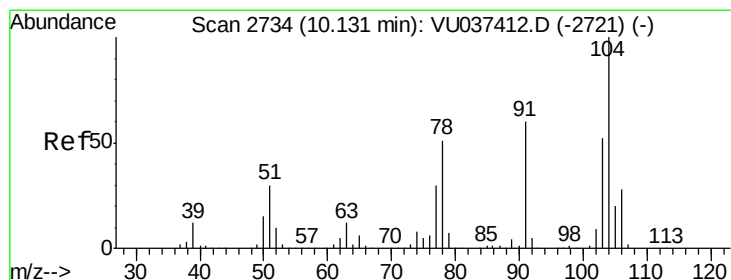
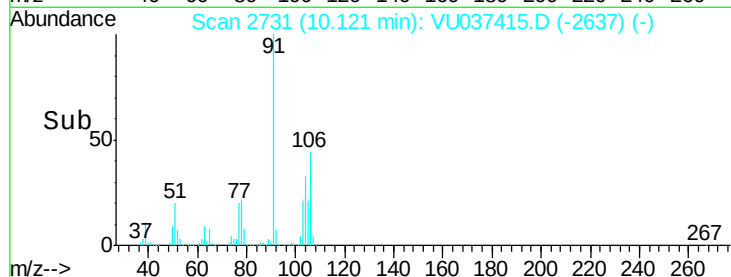
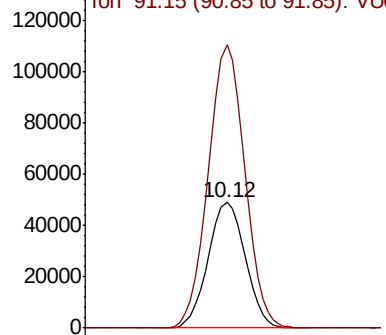
#54
o-Xylene
Concen: 4.617 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 77764
Ion Ratio Lower Upper
106 100
91 225.1 157.7 292.9

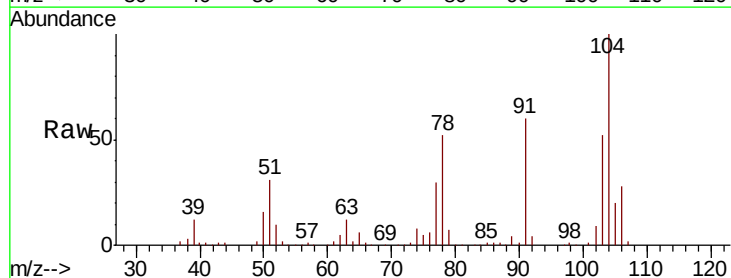


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

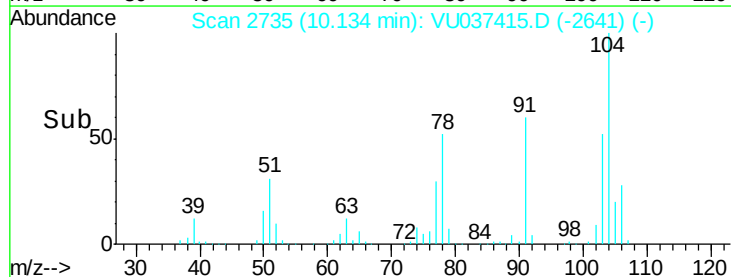
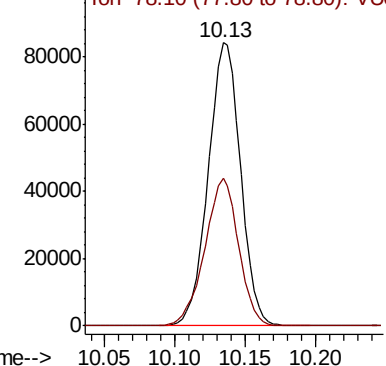


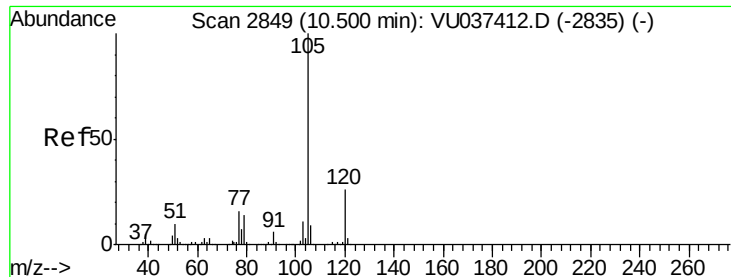
#55
Styrene
Concen: 4.703 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VU037415.D
Acq: 28 Mar 2020 13:06

Tgt Ion:104 Resp: 135354
Ion Ratio Lower Upper
104 100
78 52.2 35.8 66.6



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.713 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Instrument :

MSVOA_U

ClientSampleId :

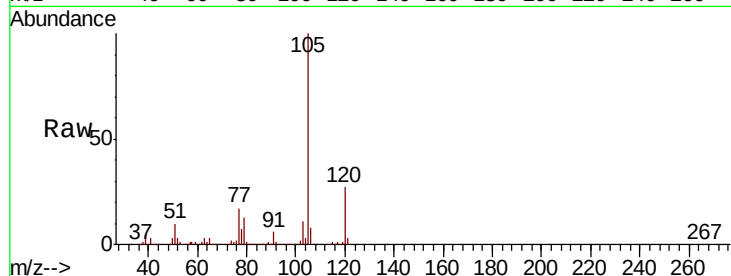
Tot Ion:105 Resp: 211476

Ion Ratio Lower Upper

105 100

120 26.1 21.0 31.4

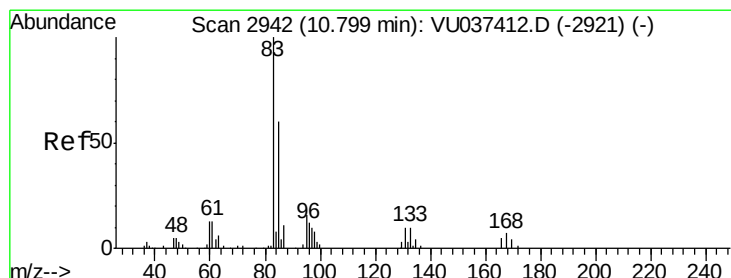
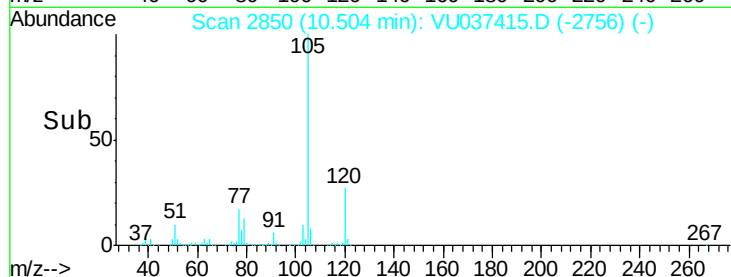
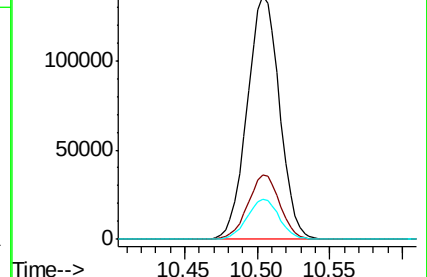
77 16.6 13.4 20.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.539 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

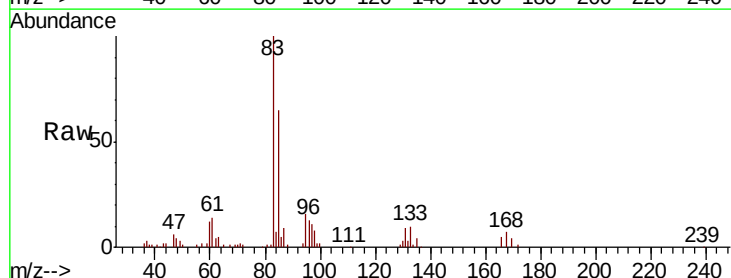
Tgt Ion: 83 Resp: 41368

Ion Ratio Lower Upper

83 100

85 65.1 42.9 79.7

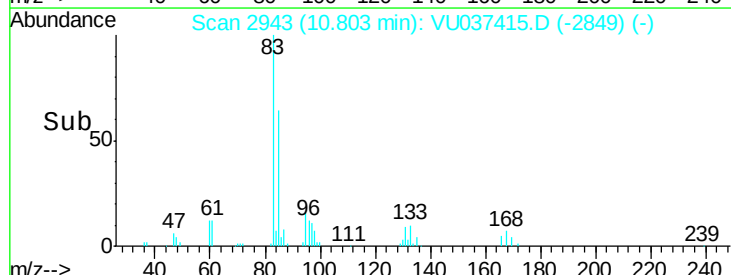
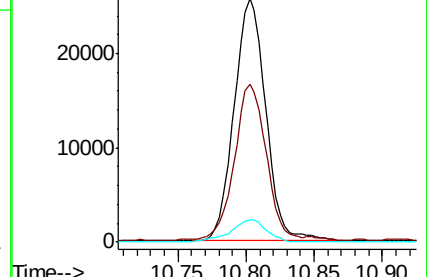
131 9.2 8.1 12.1

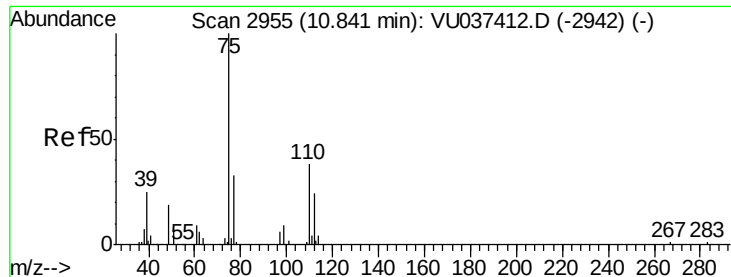


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.570 ug/L

RT: 10.84 min Scan# 2956

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Instrument :

MSVOA_U

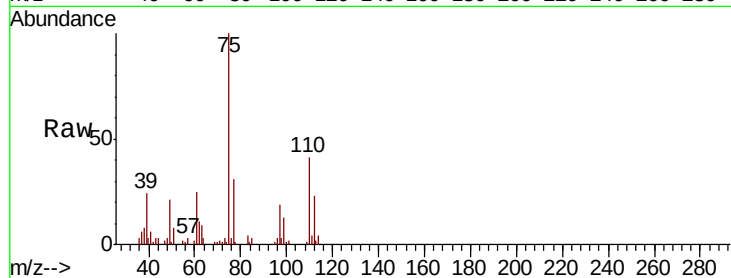
ClientSampleId :

Tot Ion: 75 Resp: 30345

Ion Ratio Lower Upper

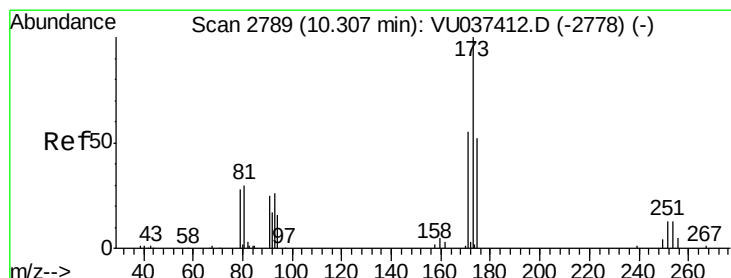
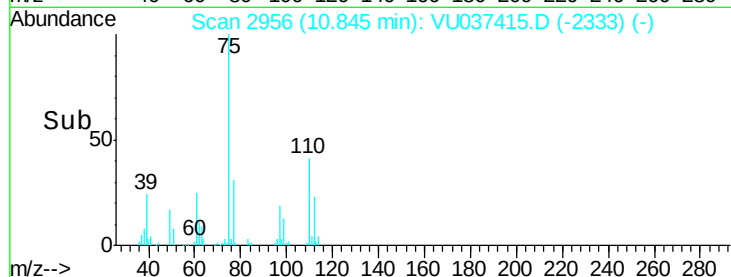
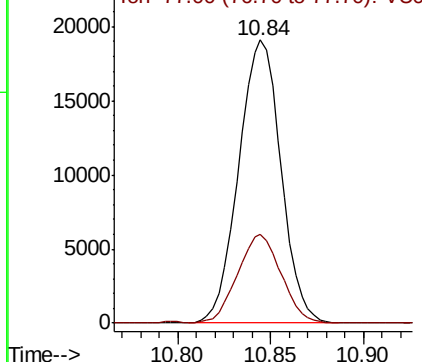
75 100

77 32.2 27.4 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#61

Bromoform

Concen: 4.853 ug/L

RT: 10.31 min Scan# 2791

Delta R.T. 0.01 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

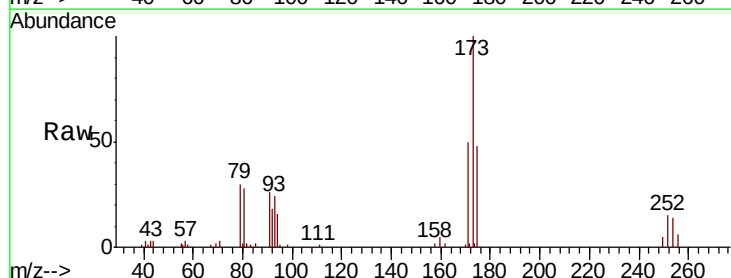
Tgt Ion: 173 Resp: 25389

Ion Ratio Lower Upper

173 100

175 47.5 40.2 60.4

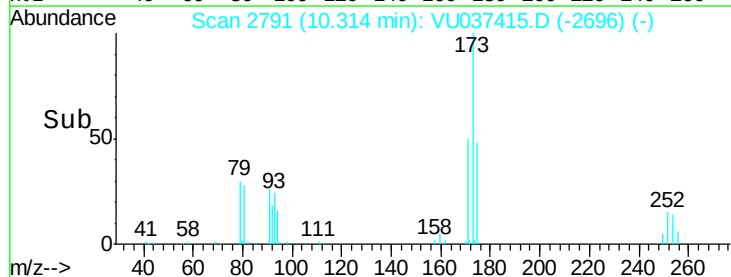
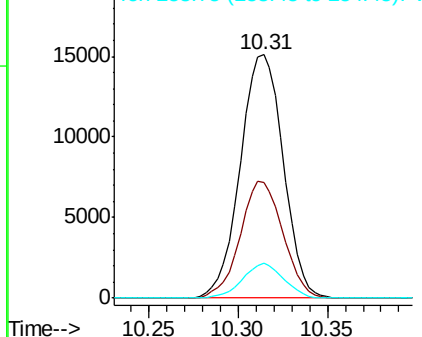
254 13.6 11.4 17.2

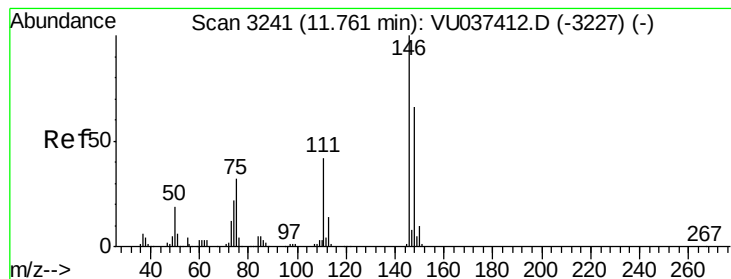


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V





#62

1,3-Dichlorobenzene

Concen: 4.746 ug/L

RT: 11.76 min Scan# 3242

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Instrument :

MSVOA_U

ClientSampleId :

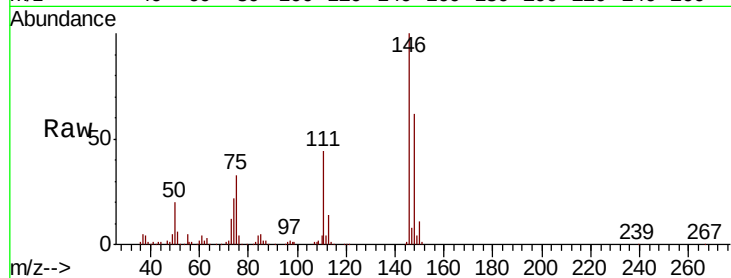
Tot Ion:146 Resp: 96062

Ion Ratio Lower Upper

146 100

111 44.4 29.4 54.6

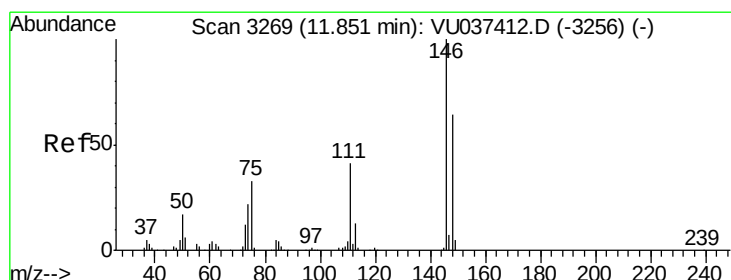
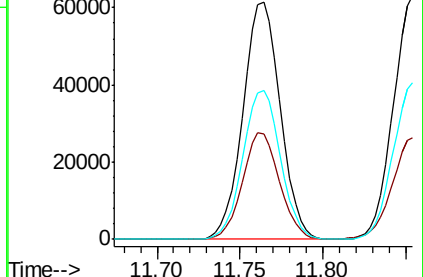
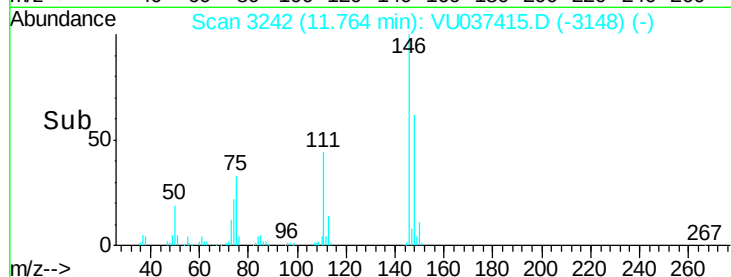
148 62.5 46.1 85.5



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: 4.505 ug/L

RT: 11.85 min Scan# 3270

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

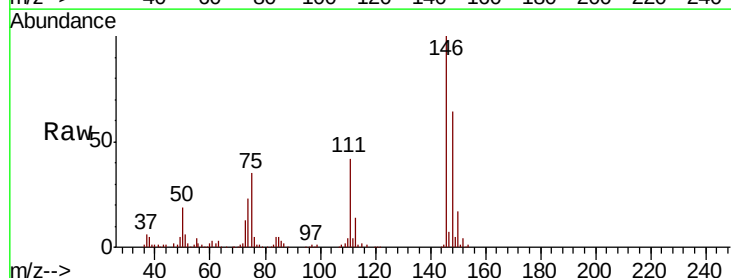
Tgt Ion:146 Resp: 97366

Ion Ratio Lower Upper

146 100

111 41.6 28.8 53.6

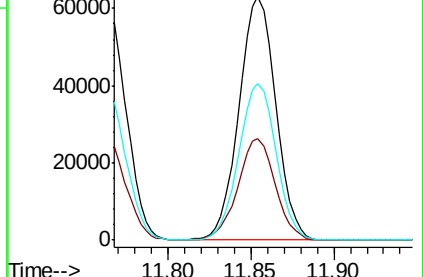
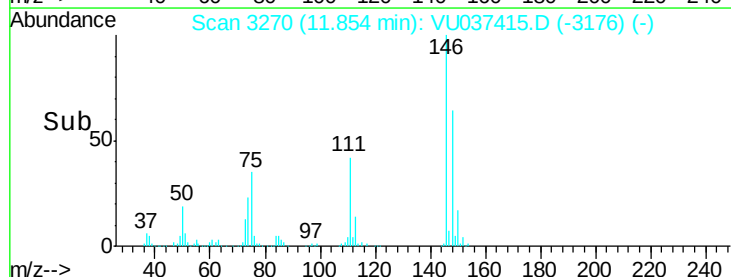
148 64.3 44.5 82.7

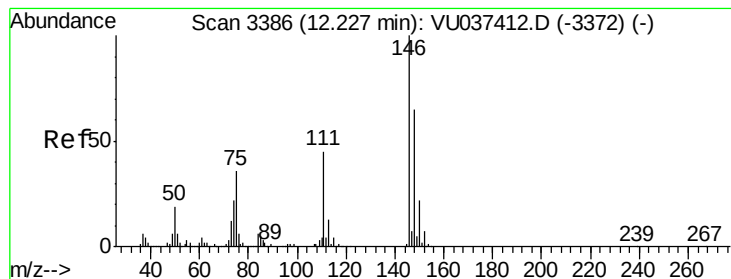


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.584 ug/L

RT: 12.23 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Instrument :

MSVOA_U

ClientSampleId :

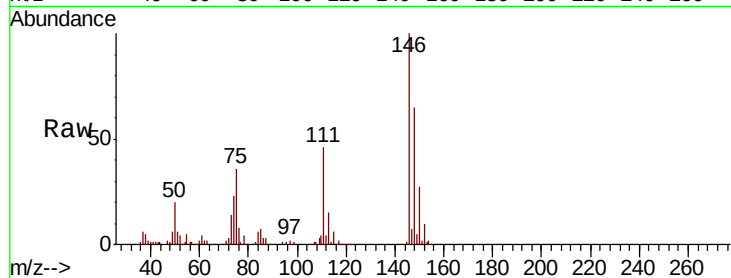
Tot Ion:146 Resp: 89558

Ion Ratio Lower Upper

146 100

111 45.5 36.2 54.2

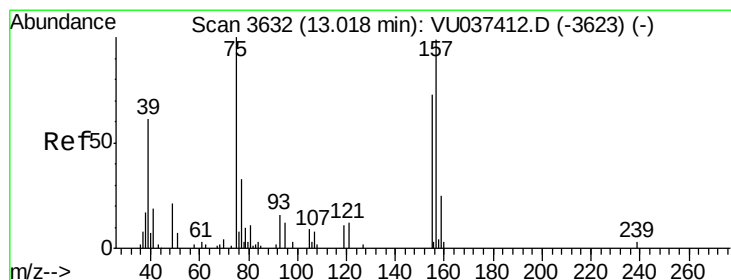
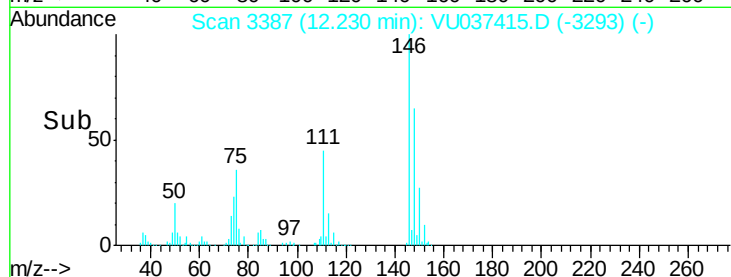
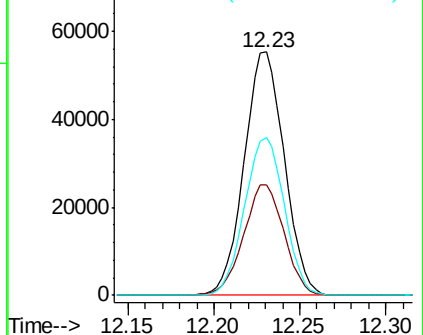
148 65.0 52.1 78.1



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: 4.973 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. 0.00 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

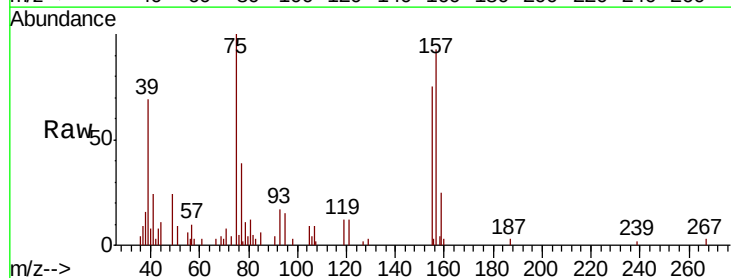
Tgt Ion: 75 Resp: 8550

Ion Ratio Lower Upper

75 100

155 74.8 56.0 84.0

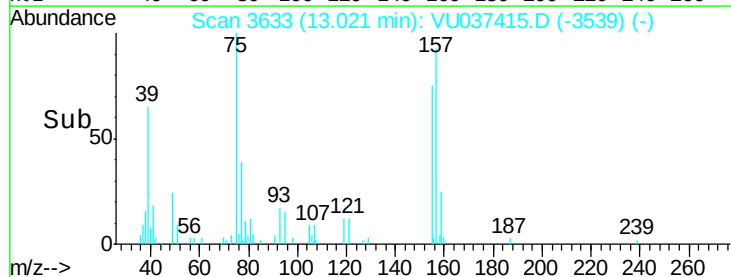
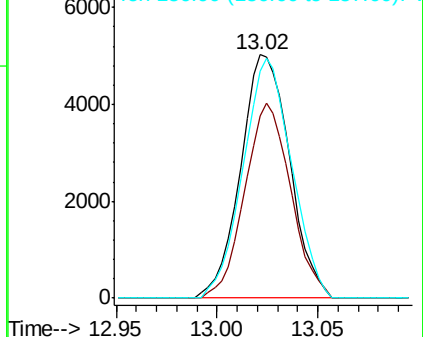
157 93.1 78.3 117.5

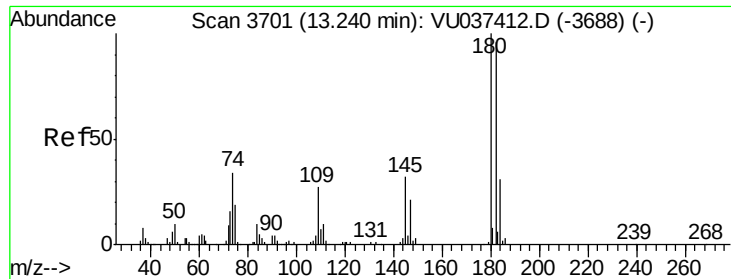


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

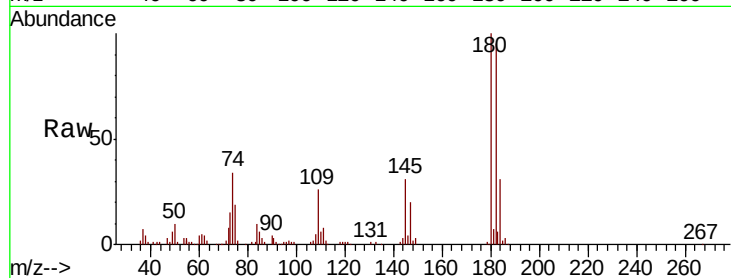




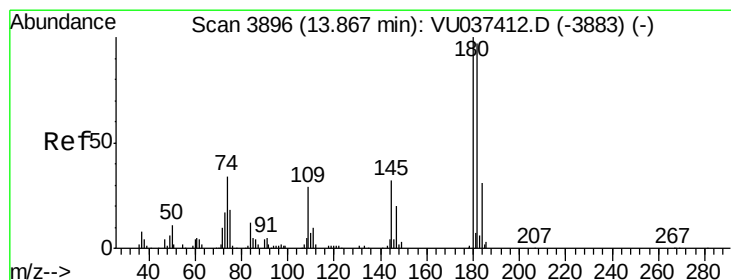
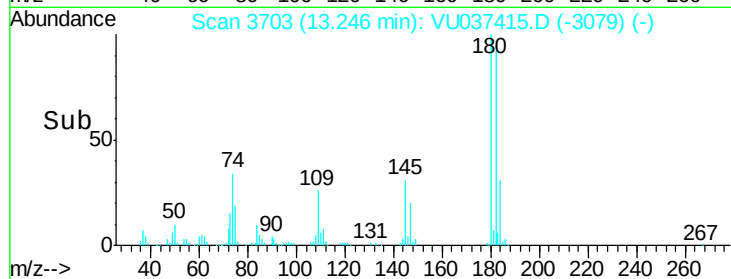
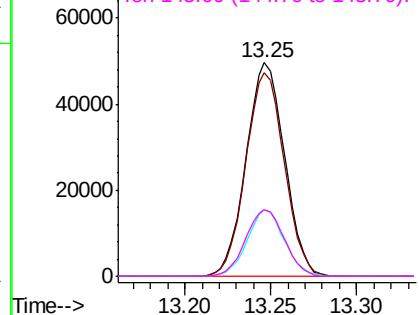
#67
 1,3,5-Trichlorobenzene
 Concen: 4.904 ug/L
 RT: 13.25 min Scan# 3703
 Delta R.T. 0.01 min
 Lab File: VU037415.D
 Acq: 28 Mar 2020 13:06

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 76966
 Ion Ratio Lower Upper
 180 100
 182 95.4 77.7 116.5
 184 30.0 24.6 36.8
 145 31.2 25.7 38.5

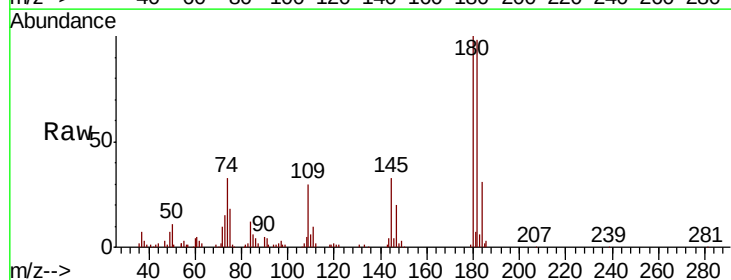


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

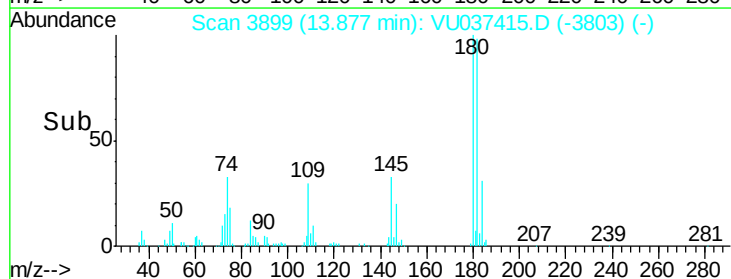
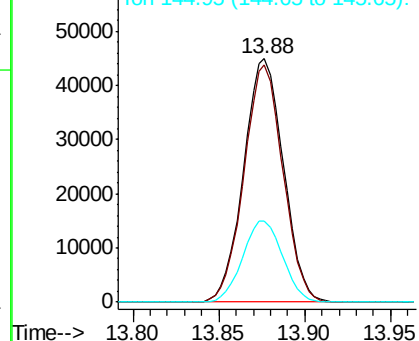


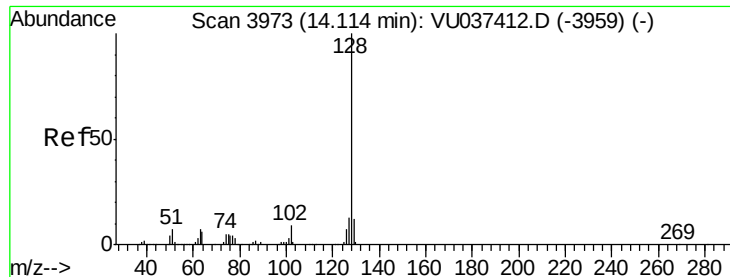
#68
 1,2,4-trichlorobenzene
 Concen: 4.760 ug/L
 RT: 13.88 min Scan# 3899
 Delta R.T. 0.01 min
 Lab File: VU037415.D
 Acq: 28 Mar 2020 13:06

Tgt Ion:180 Resp: 72021
 Ion Ratio Lower Upper
 180 100
 182 95.3 75.8 113.6
 145 33.3 25.5 38.3



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: 4.852 ug/L

RT: 14.12 min Scan# 3976

Delta R.T. 0.01 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

Instrument :

MSVOA_U

ClientSampled :

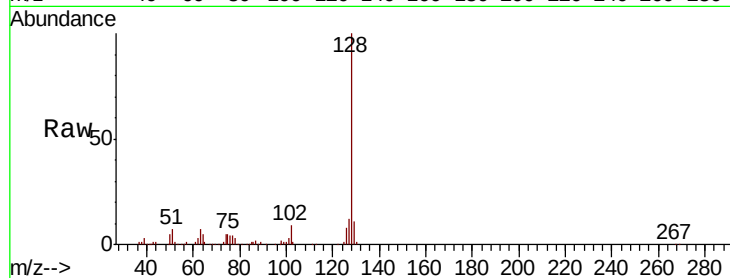
Tot Ion:128 Resp: 142518

Ion Ratio Lower Upper

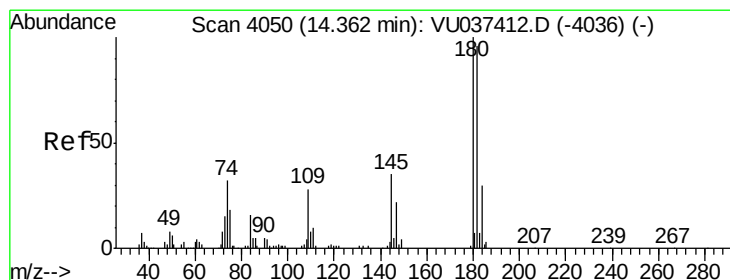
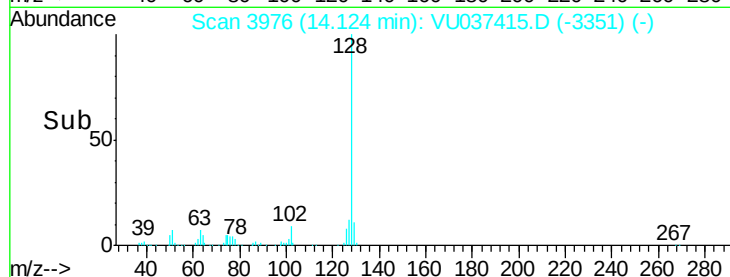
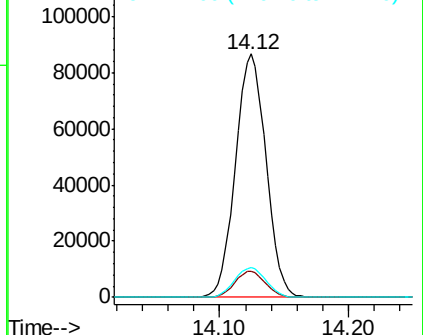
128 100

129 10.7 8.9 13.3

127 12.6 10.4 15.6



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: 4.706 ug/L

RT: 14.37 min Scan# 4053

Delta R.T. 0.01 min

Lab File: VU037415.D

Acq: 28 Mar 2020 13:06

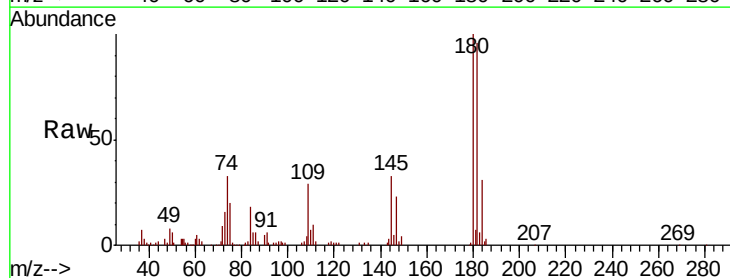
Tgt Ion:180 Resp: 64038

Ion Ratio Lower Upper

180 100

182 95.2 77.8 116.8

145 34.7 27.8 41.8



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

