

Data File : VL034345.D
Acq On : 24 Oct 2019 14:20
Operator : SY/AP
Sample : K5477-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV5

Quant Time: Oct 25 01:33:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct 17 05:12:37 2019
QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	987028	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.24	114	1946669	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.15	117	7385	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	583	0.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	9.30%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.02	85	50828	0.299	ppbv	93
3) Chlorodifluoromethane	2.93	51	240323	2.077	ppbv #	68
4) Chloromethane	3.11	50	6372	0.093	ppbv	97
7) Chloroethane	3.55	64	10836	0.472	ppbv #	85
9) Propene	2.99	41	373845	7.290	ppbv #	80
10) Heptane	8.20	43	70867	0.538	ppbv #	28
11) Trichlorofluoromethane	3.94	101	41204	0.255	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.49	101	78966	0.746	ppbv	99
13) Ethanol	3.61	45	30294	2.638	ppbv	93
15) Acetone	3.88	43	1534192	10.867	ppbv	95
16) 1,3-Butadiene	3.34	39	115633	2.016	ppbv #	11
18) 1,1-Dichloroethene	4.29	96	57093	1.232	ppbv	89
19) Isopropyl Alcohol	3.99	45	15117	0.192	ppbv #	95
20) Methylene Chloride	4.34	84	190028	3.723	ppbv	94
21) Allyl Chloride	4.36	41	40435	0.518	ppbv #	60
22) trans-1,2-Dichloroethene	4.90	96	1851064	40.046	ppbv	91
23) Vinyl Acetate	5.12	43	267986	1.520	ppbv #	52
24) 1,1-Dichloroethane	4.90	63	1043602	7.976	ppbv #	1
25) Ethyl Acetate	5.71	43	281268	1.180	ppbv #	77
26) Hexane	5.71	57	383062	3.771	ppbv #	38
27) Carbon Disulfide	4.56	76	100051	0.949	ppbv	96
29) Chloroform	5.79	83	6338053	39.440	ppbv #	83
30) Cyclohexane	7.20	84	9358	0.125	ppbv #	1
31) cis-1,2-Dichloroethene	5.60	61	20818374	201.920	ppbv #	32
32) 1,1,1-Trichloroethane	6.57	97	91370	0.585	ppbv	95
34) 2-Butanone	5.30	43	1630533	10.247	ppbv	100
36) Benzene	6.95	78	2191145	11.731	ppbv	97
38) Trichloroethene	7.96	130	38052825	507.706	ppbv	86
39) 1,2-Dichloropropane	7.91	63	84829	1.055	ppbv #	1
42) Bromodichloromethane	7.95	83	1365569	8.009	ppbv #	94
44) 2,2,4-Trimethylpentane	7.98	57	1867876	5.403	ppbv	91
51) 2-Hexanone	10.22	43	14757	0.079	ppbv #	30
52) Tetrachloroethene	11.43	164	36127777	493.468	ppbv	91
53) Toluene	9.90	91	8137	0.039	ppbv #	20
56) 1,1,1,2-Tetrachloroethane	12.11	131	1957193	5750.723	ppbv #	1
57) Chlorobenzene	12.21	112	197	0.320	ppbv #	1
58) Ethyl Benzene	13.05	91	23160	22.434	ppbv	94
59) m/p-Xylene	13.06	91	24238	27.098	ppbv #	53
60) o-Xylene	13.75	91	530	0.595	ppbv #	33
61) Styrene	13.63	104	29	0.046	ppbv #	1
62) Isopropylbenzene	14.74	105	132	0.112	ppbv #	1

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct 17 05:12:37 2019
QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration

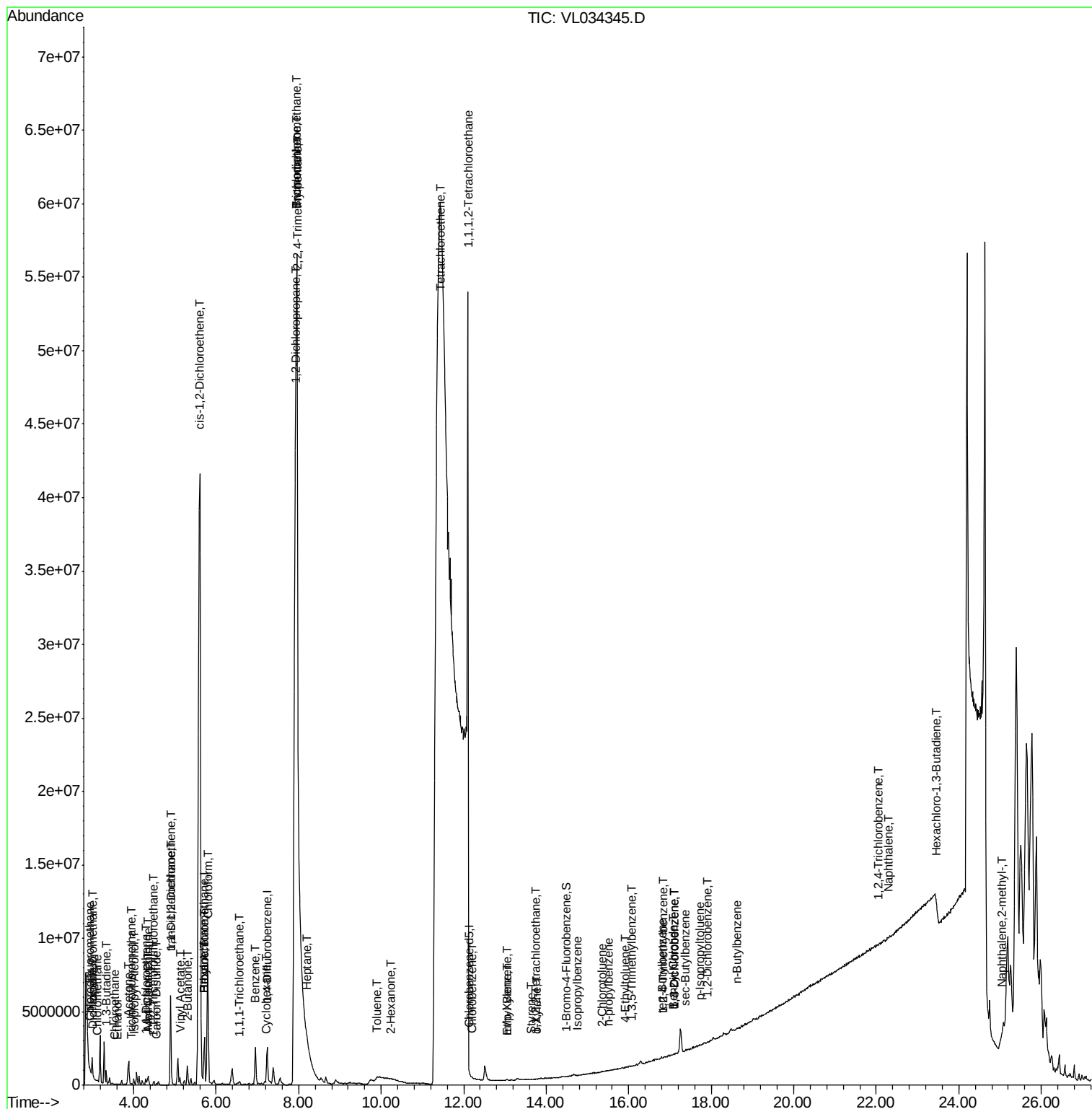
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,1,2,2-Tetrachloroethane	13.74	83	232	0.324	ppbv #	1
64) n-propylbenzene	15.51	120	691	2.290	ppbv	68
65) tert-Butylbenzene	16.82	119	1977	1.897	ppbv #	7
66) Benzyl Chloride	17.07	91	288	0.700	ppbv #	68
67) sec-Butylbenzene	17.36	105	284	0.194	ppbv #	1
69) p-Isopropyltoluene	17.73	119	358	0.299	ppbv #	44
70) n-Butylbenzene	18.62	91	650	0.500	ppbv #	1
71) 2-Chlorotoluene	15.37	91	802	0.880	ppbv	87
72) 4-Ethyltoluene	15.91	105	218	0.218	ppbv #	54
73) 1,3,5-Trimethylbenzene	16.07	105	574	0.579	ppbv #	32
74) 1,2,4-Trimethylbenzene	16.84	105	188	0.182	ppbv #	42
75) 1,3-Dichlorobenzene	17.09	146	118	0.190	ppbv #	1
76) 1,4-Dichlorobenzene	17.09	146	118	0.194	ppbv #	1
77) 1,2-Dichlorobenzene	17.91	146	62	0.102	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.46	225	140	0.278	ppbv #	57
79) Naphthalene	22.30	128	2531	3.349	ppbv #	1
80) Naphthalene,2-methyl-	25.05	142	3562	16.307	ppbv #	51
81) 1,2,4-Trichlorobenzene	22.04	180	35	0.071	ppbv #	81

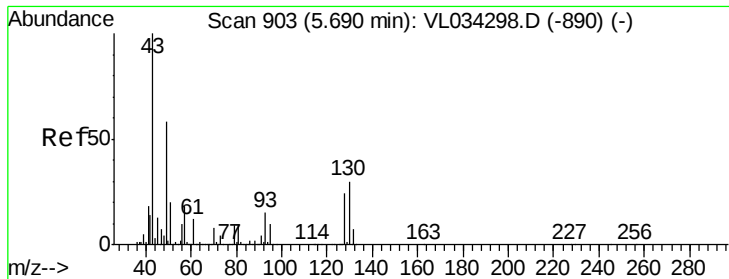
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 910

Delta R.T. 0.02 min

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MSVOA_L

ClientSampleId :

SV5

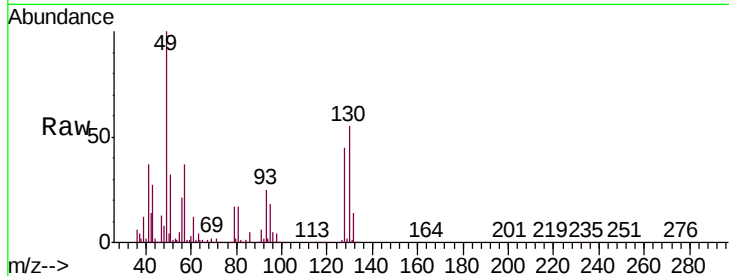
Tgt Ion: 49 Resp: 987028

Ion Ratio Lower Upper

49 100

128 42.6 20.6 61.8

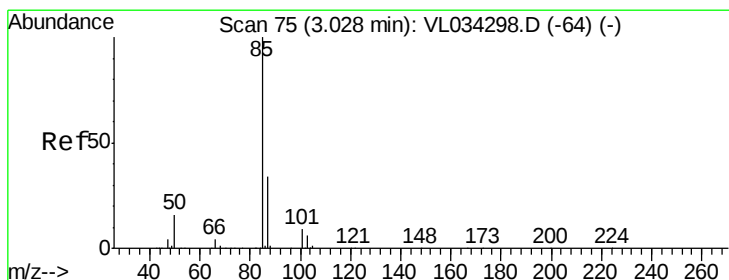
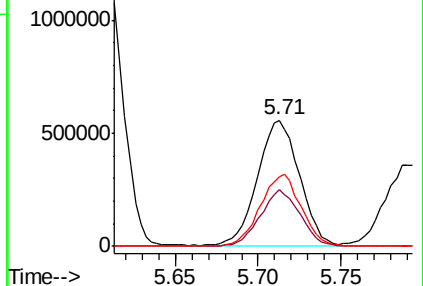
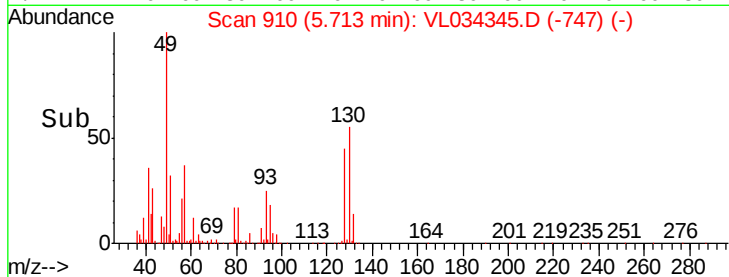
130 55.6 26.2 78.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.299 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.01 min

Lab File: VL034345.D

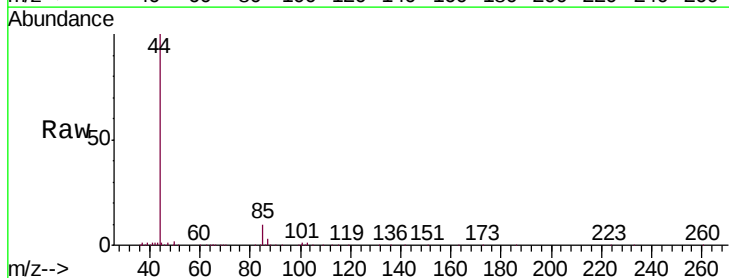
Acq: 24 Oct 2019 14:20

Tgt Ion: 85 Resp: 50828

Ion Ratio Lower Upper

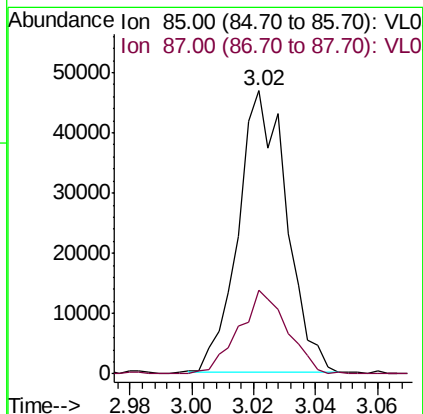
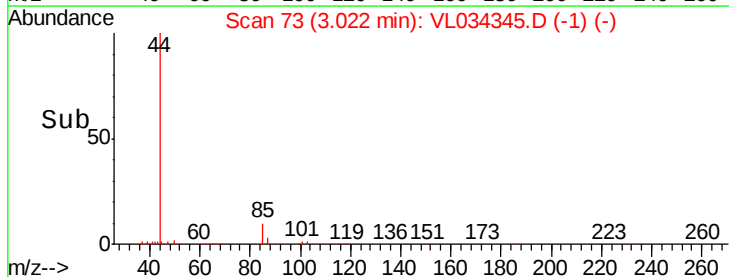
85 100

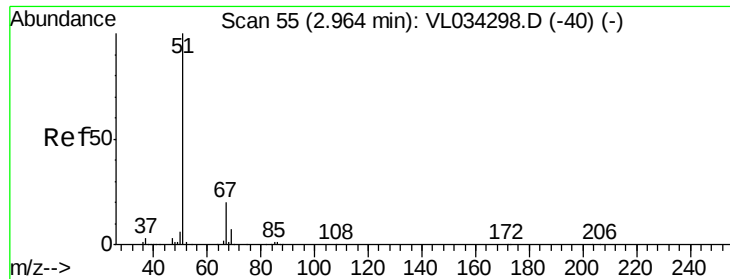
87 29.6 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.077 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.03 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

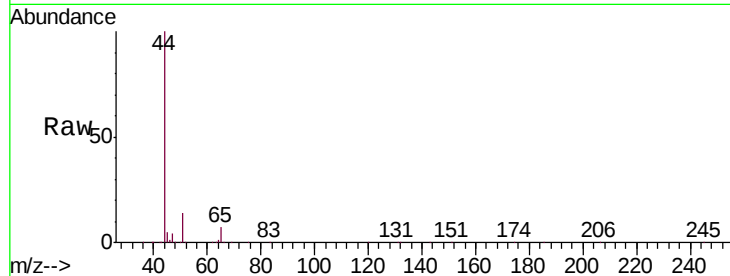
SV5

Tgt Ion: 51 Resp: 240323

Ion Ratio Lower Upper

51 100

67 5.3 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

150000

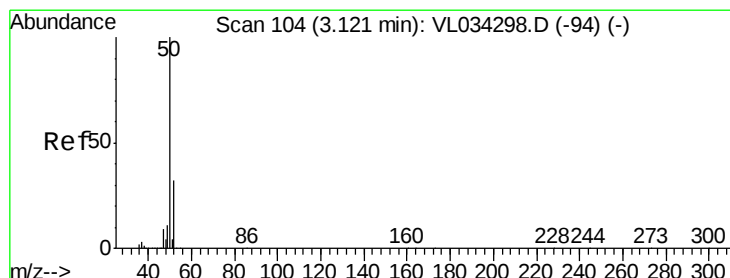
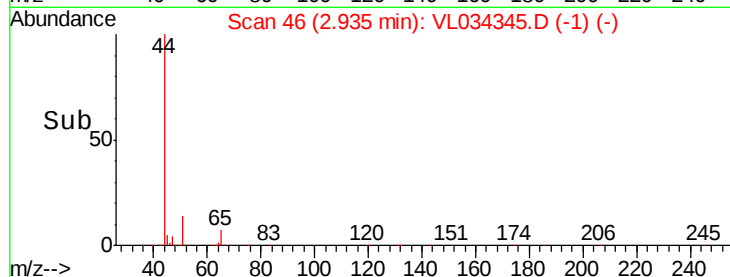
100000

50000

0

2.85 2.90 2.95 3.00

Time-->



#4

Chloromethane

Concen: 0.093 ppbv

RT: 3.11 min Scan# 102

Delta R.T. -0.01 min

Lab File: VL034345.D

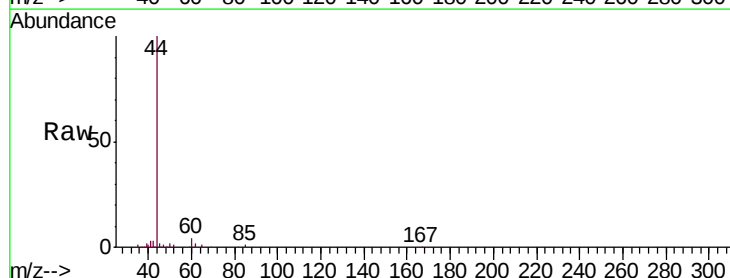
Acq: 24 Oct 2019 14:20

Tgt Ion: 50 Resp: 6372

Ion Ratio Lower Upper

50 100

52 29.9 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

6000

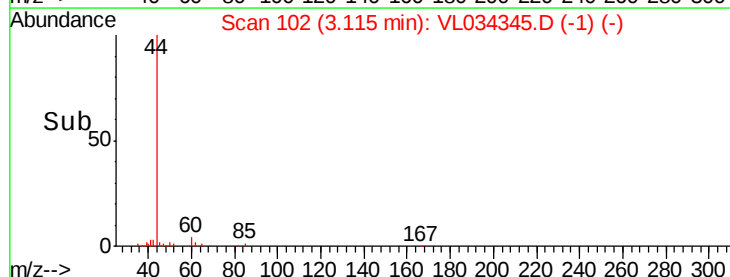
4000

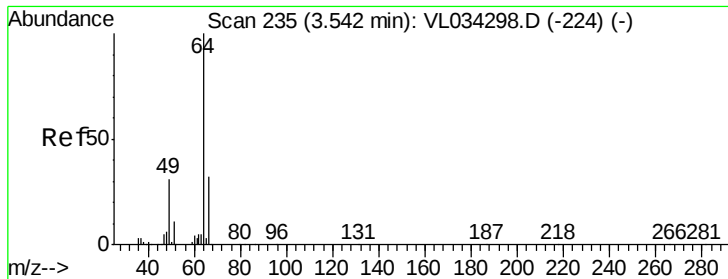
2000

0

3.10 3.12 3.14

Time-->





#7

Chloroethane

Concen: 0.472 ppbv

RT: 3.55 min Scan# 236

Delta R.T. 0.00 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

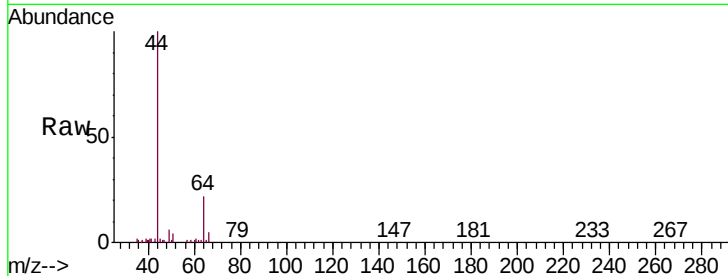
SV5

Tgt Ion: 64 Resp: 10836

Ion Ratio Lower Upper

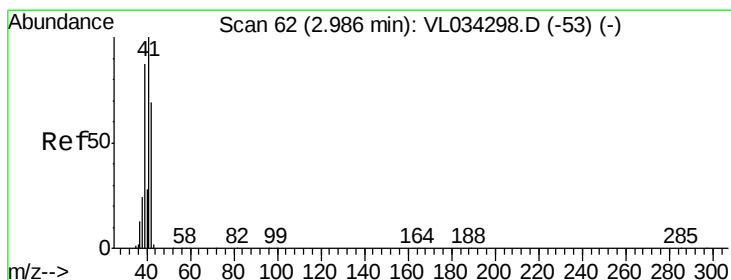
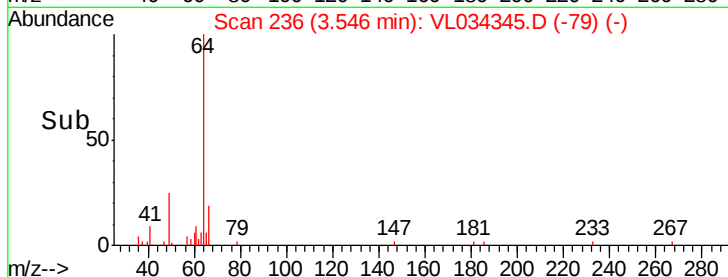
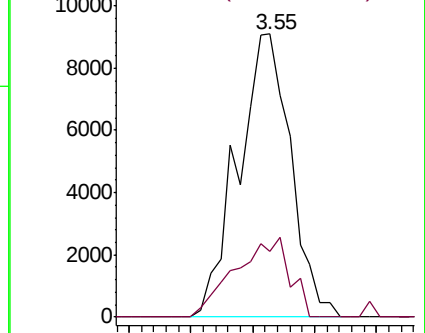
64 100

66 23.4 25.4 38.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 7.290 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL034345.D

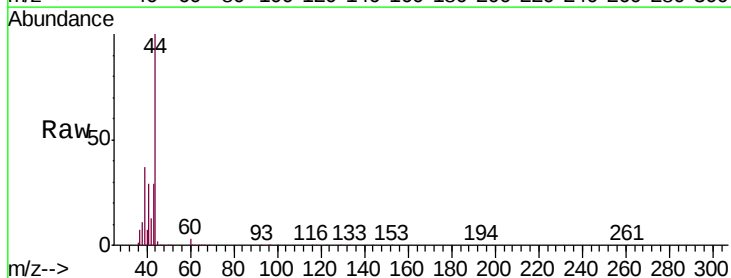
Acq: 24 Oct 2019 14:20

Tgt Ion: 41 Resp: 373845

Ion Ratio Lower Upper

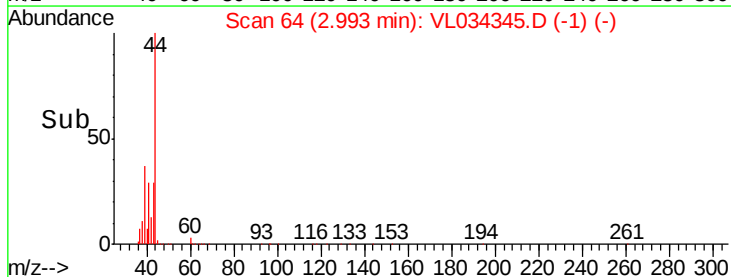
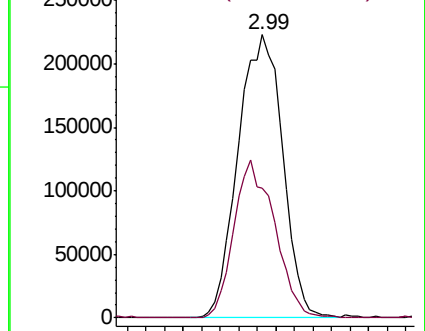
41 100

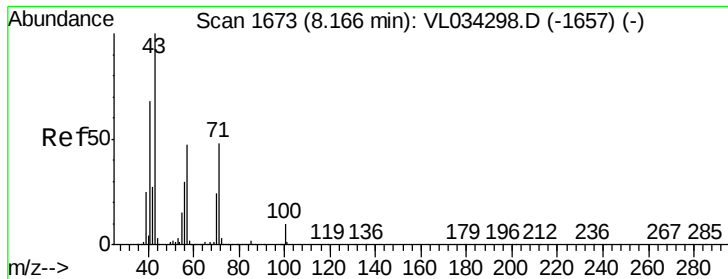
42 51.1 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.538 ppbv

RT: 8.20 min Scan# 1685

Delta R.T. 0.04 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

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ClientSampleId :

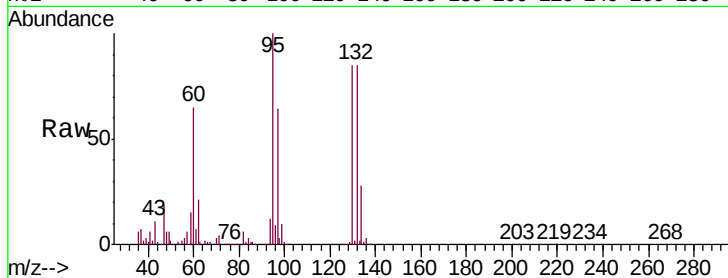
SV5

Tgt Ion: 43 Resp: 70867

Ion Ratio Lower Upper

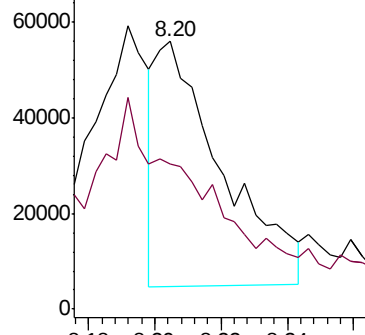
43 100

57 0.0 39.5 59.3#

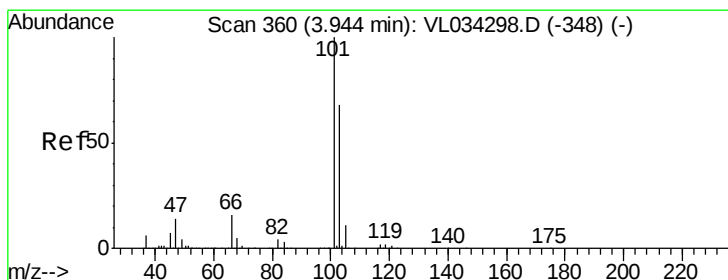
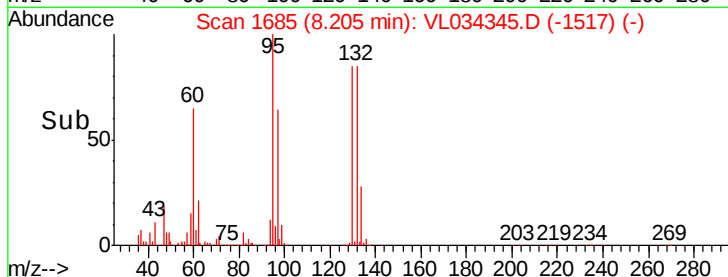


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



Time-->



#11

Trichlorofluoromethane

Concen: 0.255 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.00 min

Lab File: VL034345.D

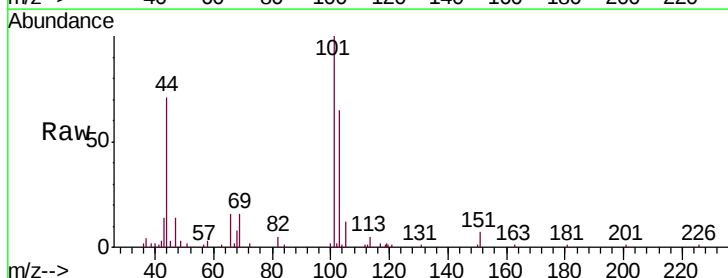
Acq: 24 Oct 2019 14:20

Tgt Ion: 101 Resp: 41204

Ion Ratio Lower Upper

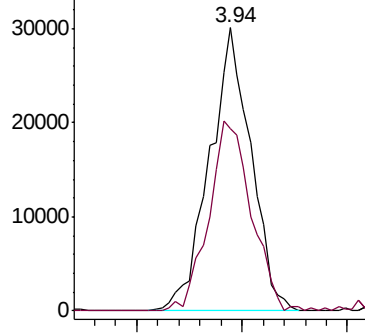
101 100

103 64.6 54.5 81.7

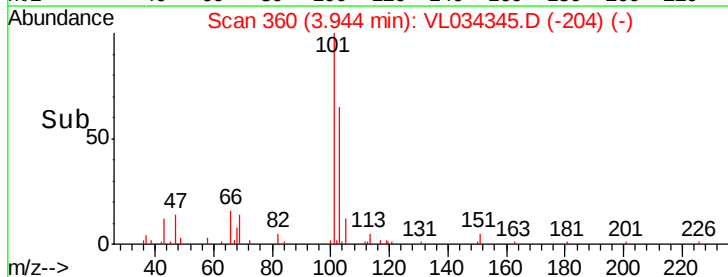


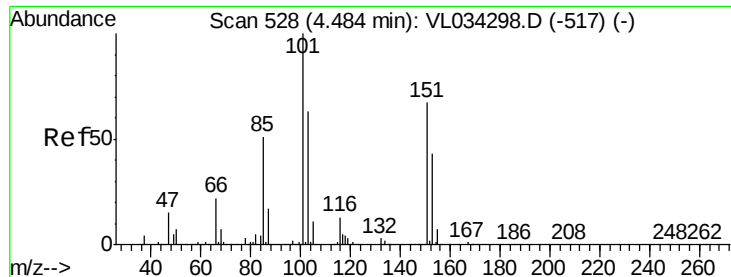
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.746 ppbv

RT: 4.49 min Scan# 529

Delta R.T. 0.00 min

Lab File: VL034345.D

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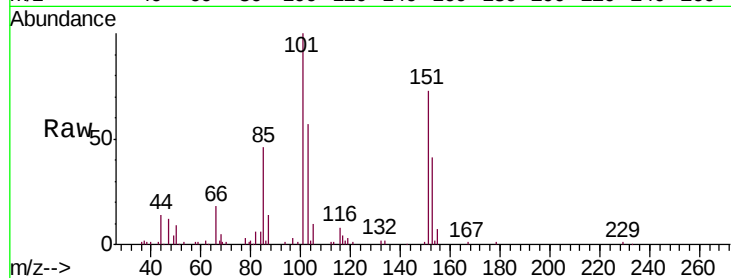
SV5

Tgt Ion: 101 Resp: 78966

Ion Ratio Lower Upper

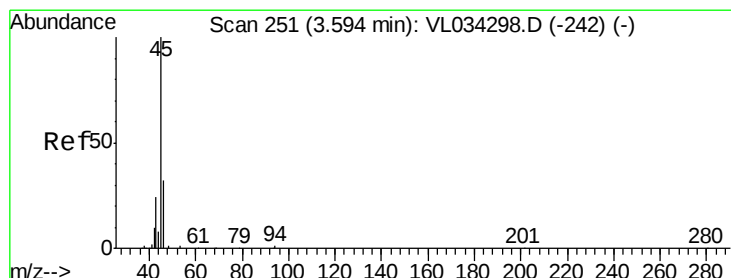
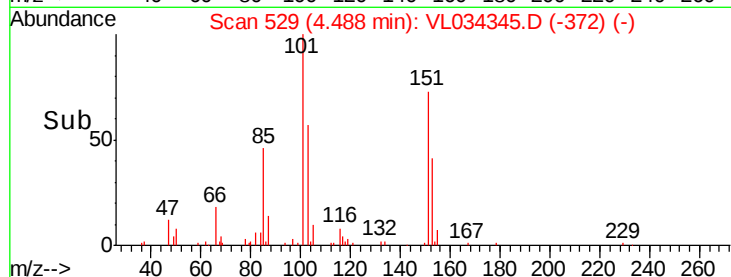
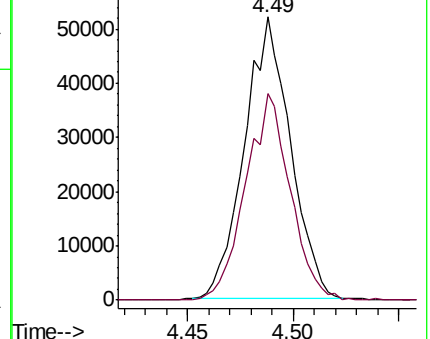
101 100

151 70.9 57.4 86.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 2.638 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL034345.D

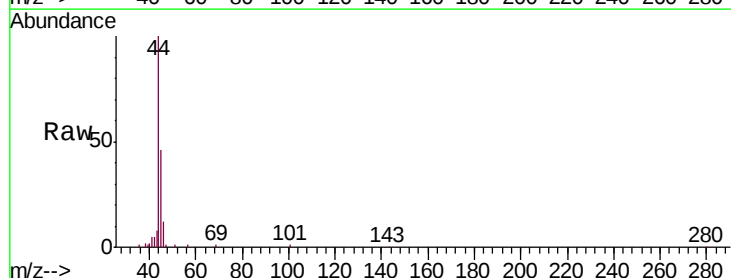
Acq: 24 Oct 2019 14:20

Tgt Ion: 45 Resp: 30294

Ion Ratio Lower Upper

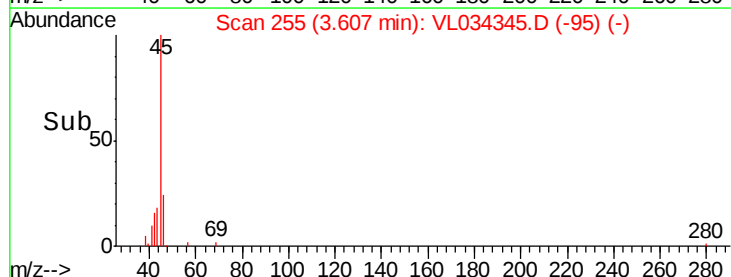
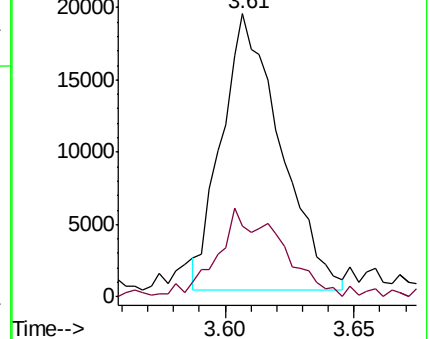
45 100

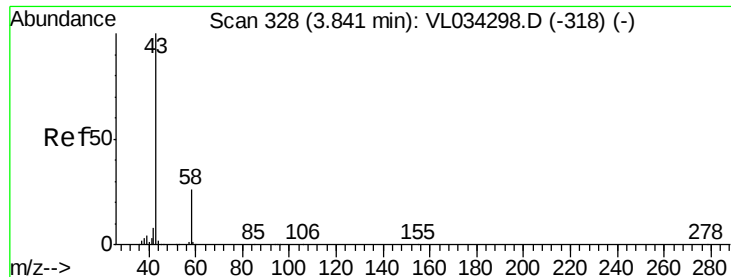
46 35.2 15.8 63.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 10.867 ppbv

RT: 3.88 min Scan# 339

Delta R.T. 0.04 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

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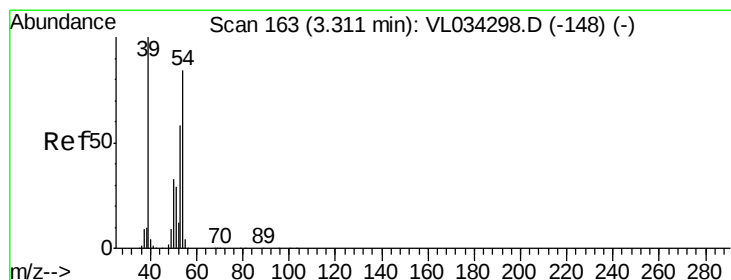
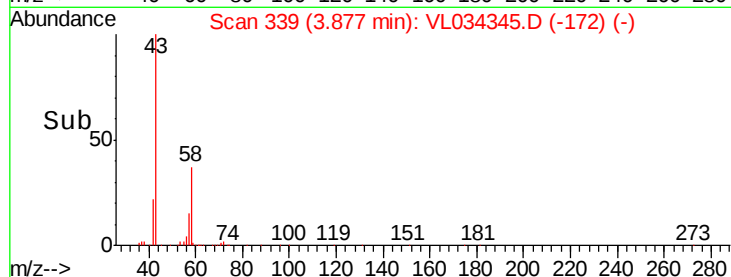
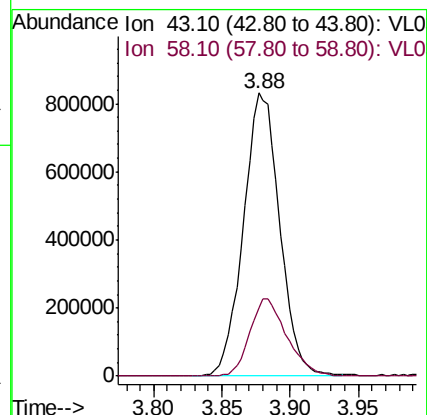
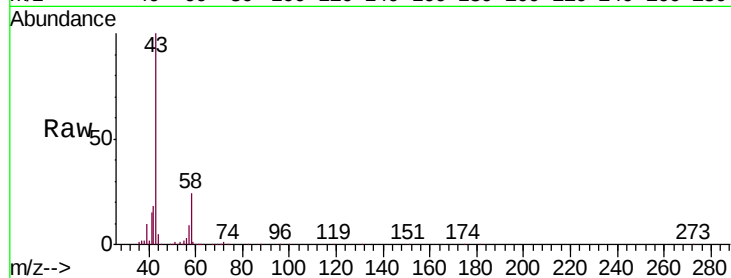
SV5

Tgt Ion: 43 Resp: 1534192

Ion Ratio Lower Upper

43 100

58 28.1 20.4 30.6



#16

1,3-Butadiene

Concen: 2.016 ppbv

RT: 3.34 min Scan# 172

Delta R.T. 0.03 min

Lab File: VL034345.D

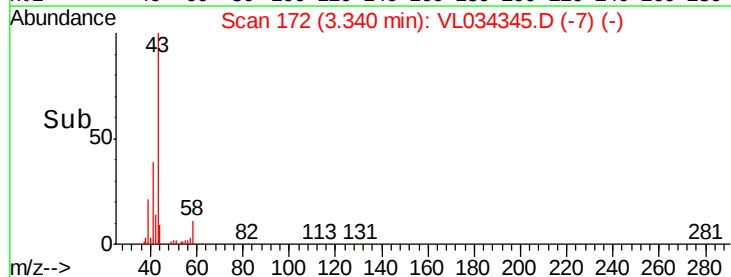
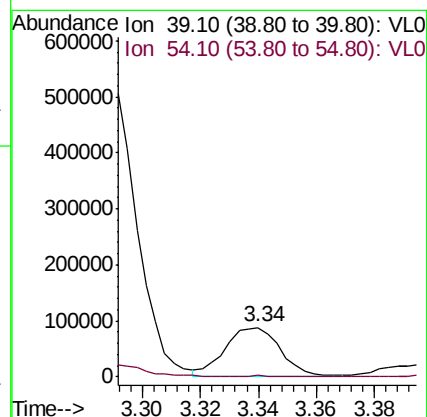
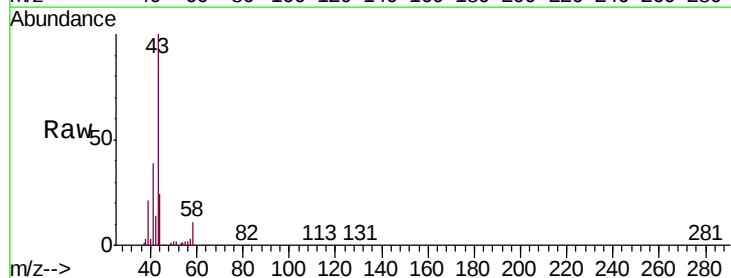
Acq: 24 Oct 2019 14:20

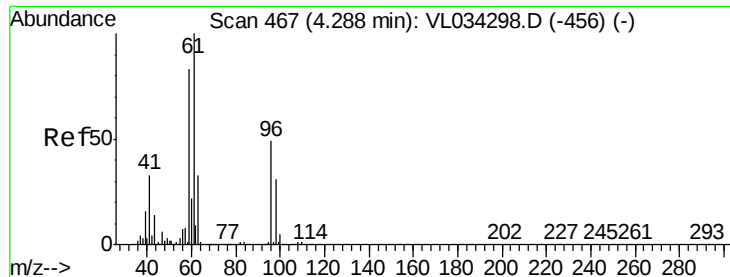
Tgt Ion: 39 Resp: 115633

Ion Ratio Lower Upper

39 100

54 1.7 63.9 95.9#

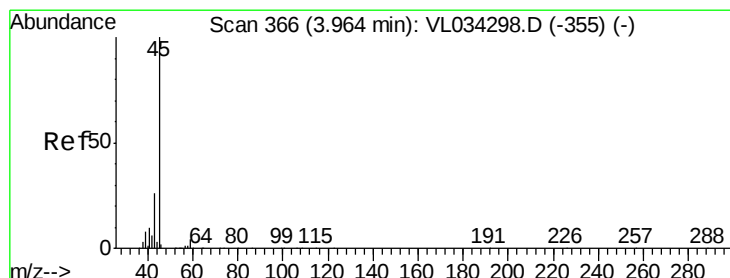
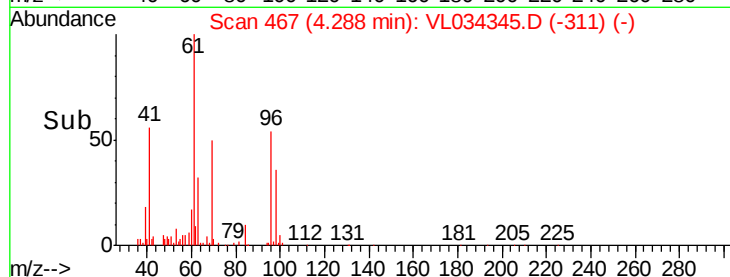
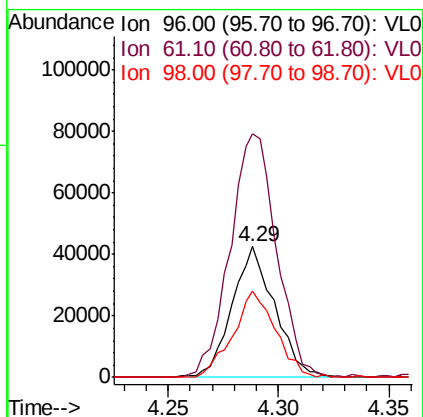
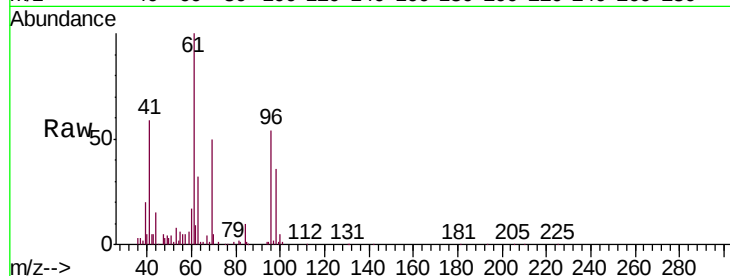




#18
 1,1-Dichloroethene
 Concen: 1.232 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. 0.00 min
 Lab File: VL034345.D
 Acq: 24 Oct 2019 14:20

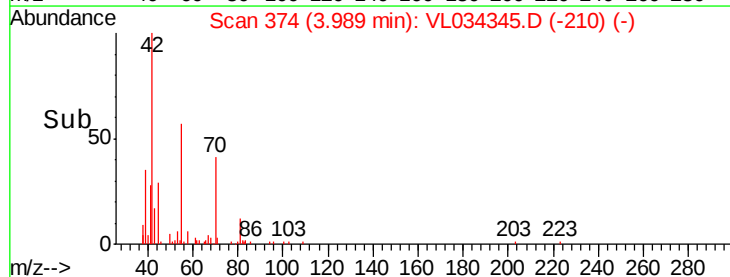
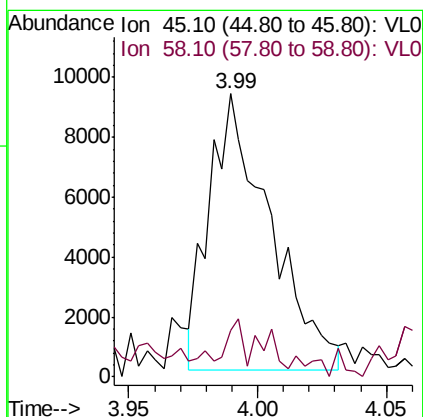
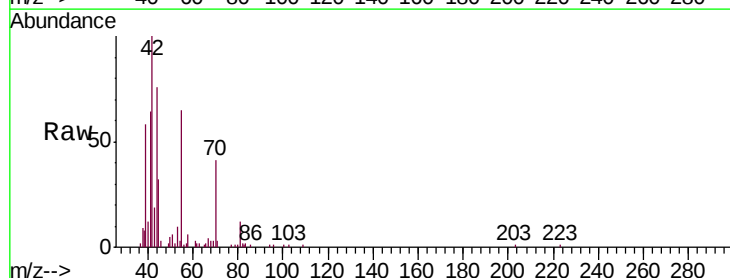
Instrument :
 MSVOA_L
 ClientSampleId :
 SV5

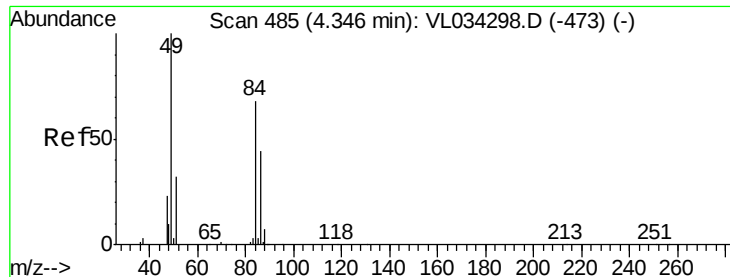
Tgt Ion: 96 Resp: 57093
 Ion Ratio Lower Upper
 96 100
 61 185.0 164.5 246.7
 98 66.3 51.7 77.5



#19
 Isopropyl Alcohol
 Concen: 0.192 ppbv
 RT: 3.99 min Scan# 374
 Delta R.T. 0.03 min
 Lab File: VL034345.D
 Acq: 24 Oct 2019 14:20

Tgt Ion: 45 Resp: 15117
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.2#

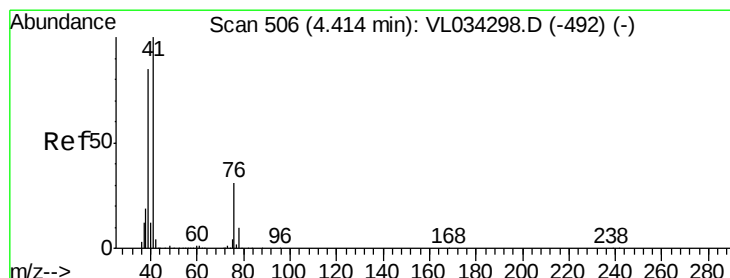
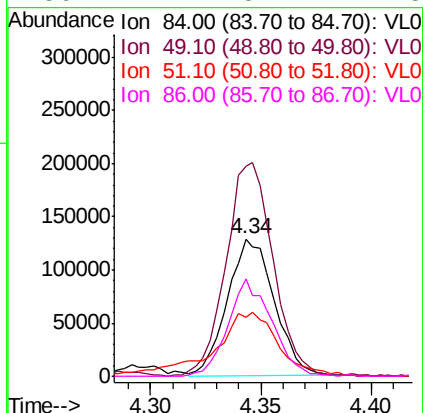
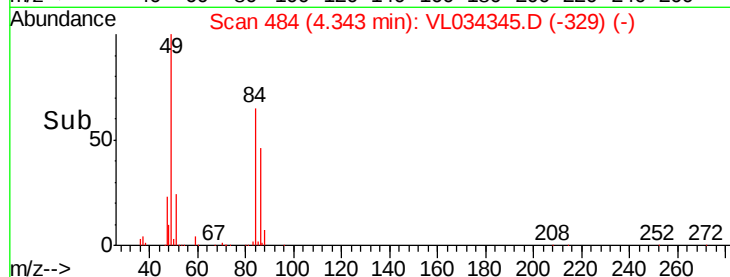
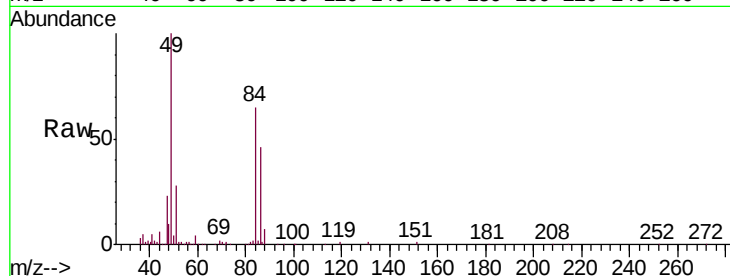




#20
Methylene Chloride
Concen: 3.723 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL034345.D
Acq: 24 Oct 2019 14:20

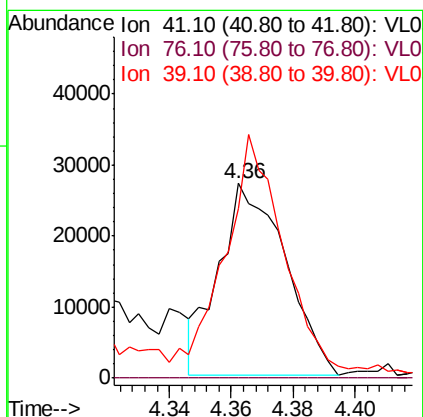
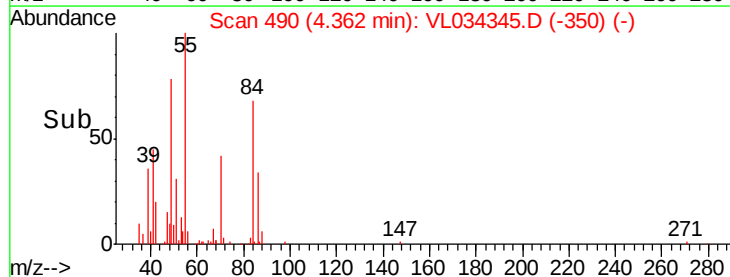
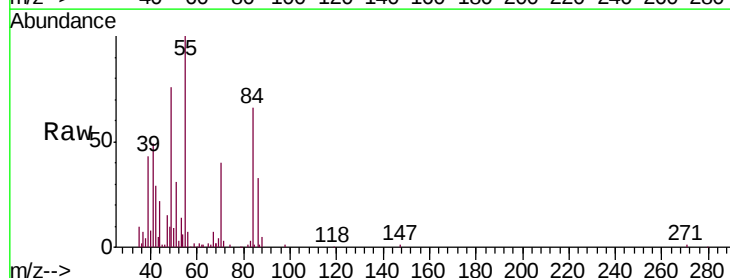
Instrument :
MSVOA_L
ClientSampleId :
SV5

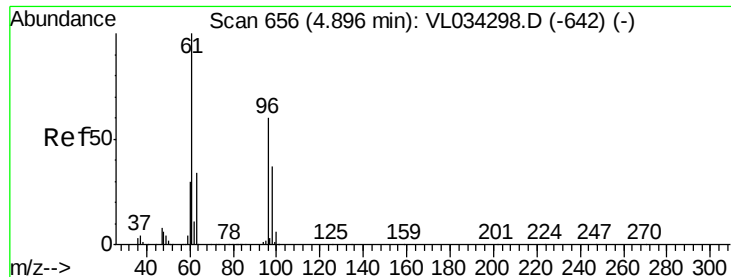
Tgt Ion: 84 Resp: 190028
Ion Ratio Lower Upper
84 100
49 152.4 118.5 177.7
51 40.2 38.8 58.2
86 71.2 51.7 77.5



#21
Allyl Chloride
Concen: 0.518 ppbv
RT: 4.36 min Scan# 490
Delta R.T. -0.05 min
Lab File: VL034345.D
Acq: 24 Oct 2019 14:20

Tgt Ion: 41 Resp: 40435
Ion Ratio Lower Upper
41 100
76 0.0 22.8 34.2#
39 113.6 66.0 99.0#





#22

trans-1,2-Dichloroethene

Concen: 40.046 ppbv

RT: 4.90 min Scan# 656

Delta R.T. 0.00 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

SV5

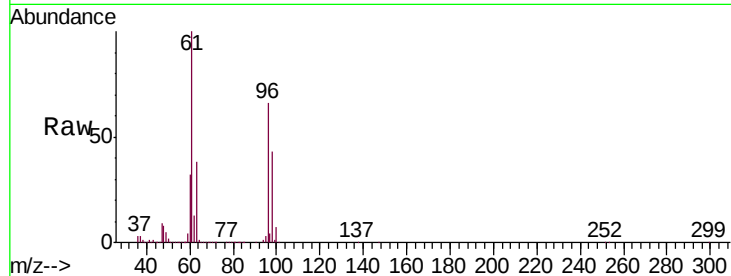
Tgt Ion: 96 Resp: 1851064

Ion Ratio Lower Upper

96 100

61 152.4 133.8 200.6

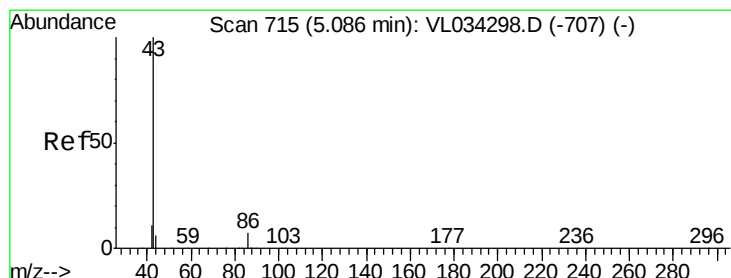
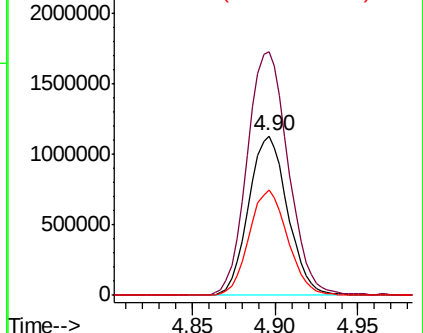
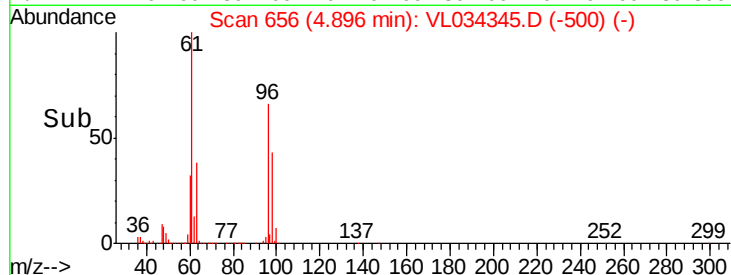
98 65.9 49.4 74.0



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 1.520 ppbv

RT: 5.12 min Scan# 725

Delta R.T. 0.03 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Tgt Ion: 43 Resp: 267986

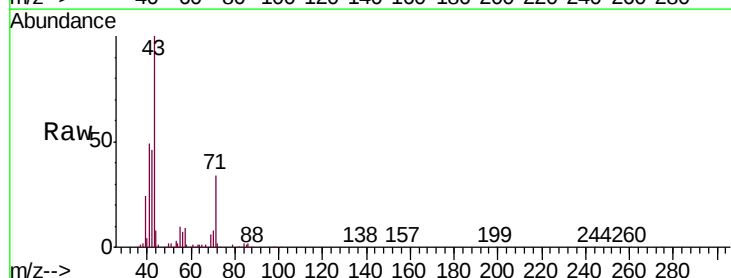
Ion Ratio Lower Upper

43 100

86 2.5 5.0 7.4#

42 45.4 8.6 13.0#

44 3.7 4.8 7.2#

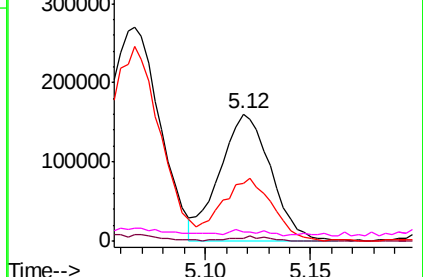
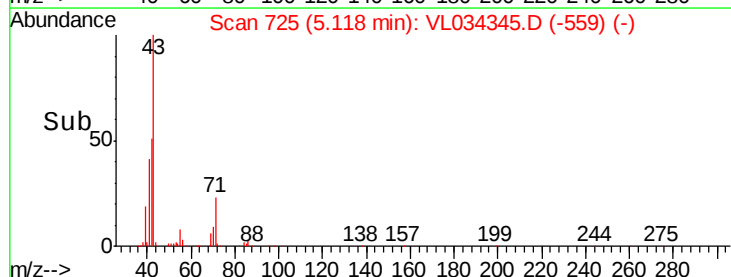


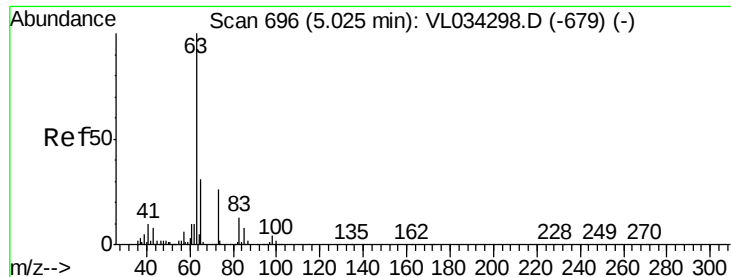
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 7.976 ppbv

RT: 4.90 min Scan# 656

Delta R.T. -0.13 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

SV5

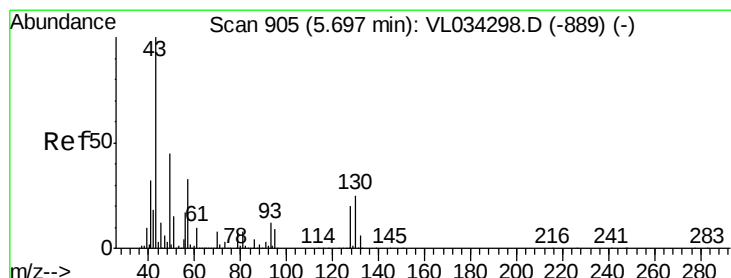
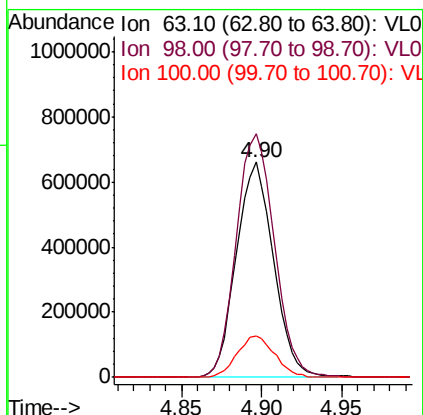
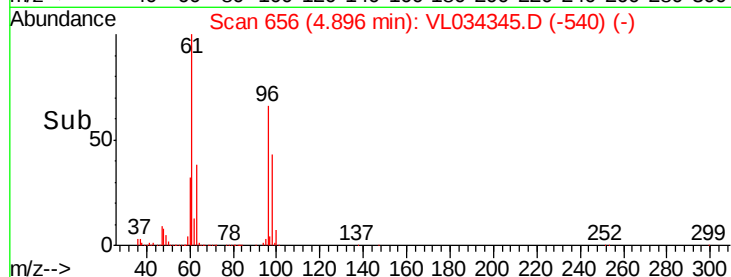
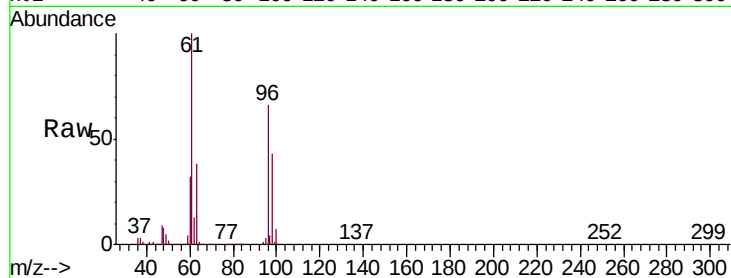
Tgt Ion: 63 Resp: 1043602

Ion Ratio Lower Upper

63 100

98 113.2 2.0 6.0#

100 19.3 1.1 3.5#



#25

Ethyl Acetate

Concen: 1.180 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.01 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Tgt Ion: 43 Resp: 281268

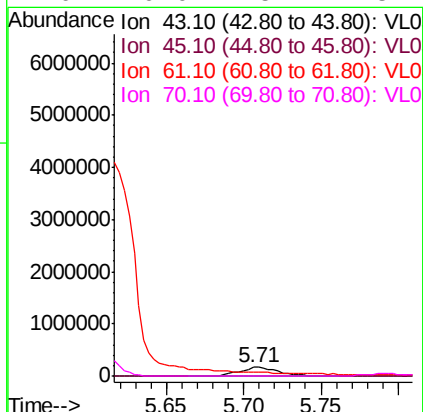
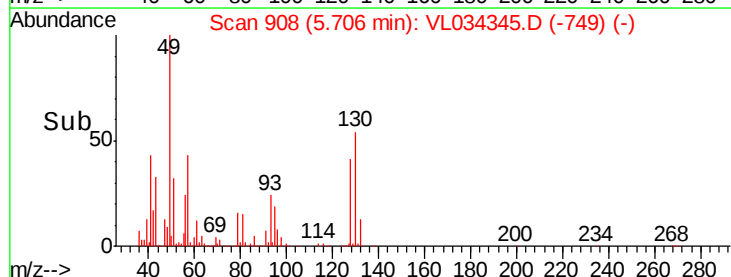
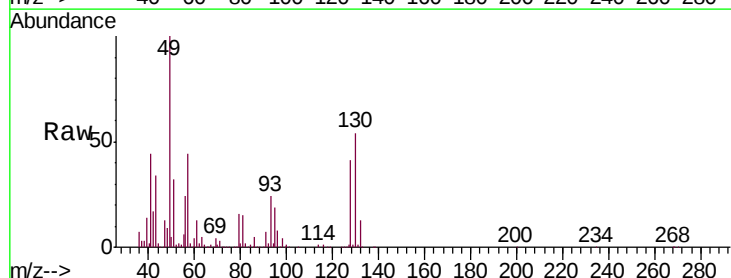
Ion Ratio Lower Upper

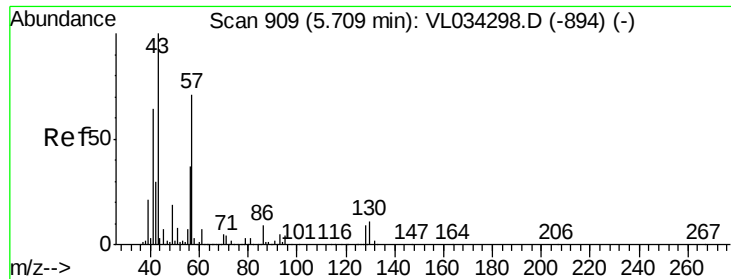
43 100

45 2.5 8.3 12.5#

61 0.0 7.7 11.5#

70 0.0 5.4 8.2#

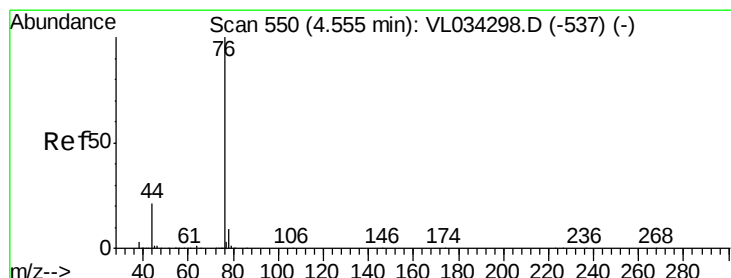
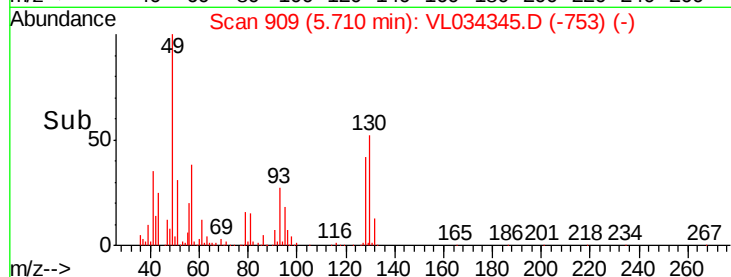
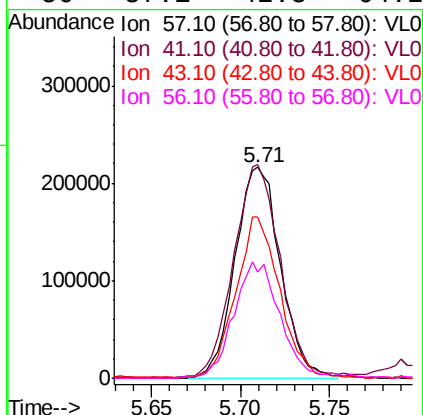
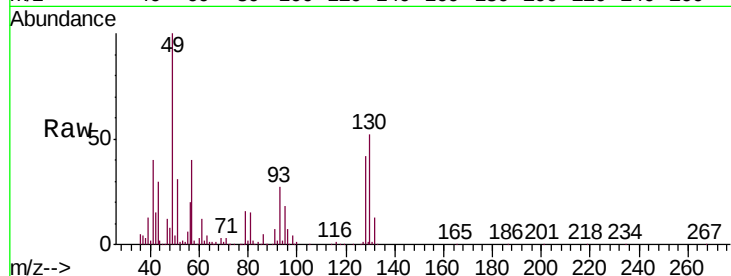




#26
Hexane
Concen: 3.771 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.00 min
Lab File: VL034345.D
Acq: 24 Oct 2019 14:20

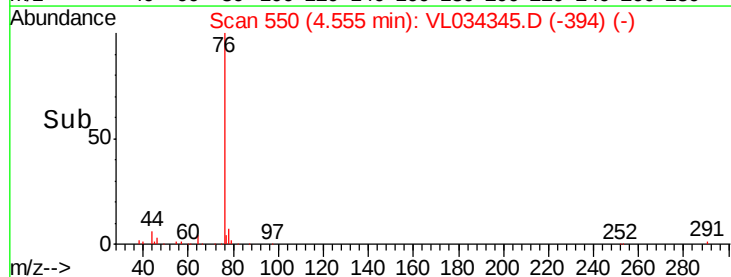
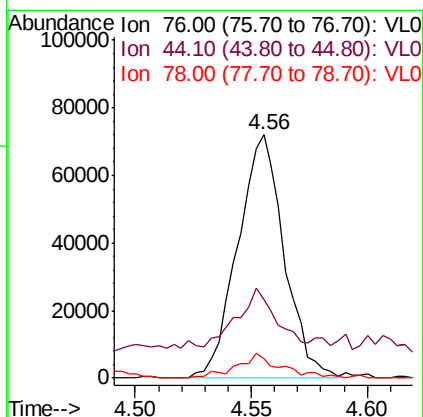
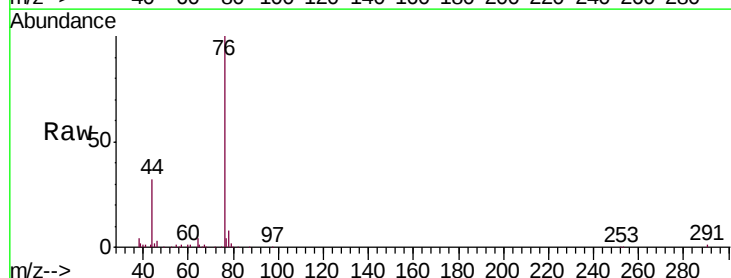
Instrument :
MSVOA_L
ClientSampleId :
SV5

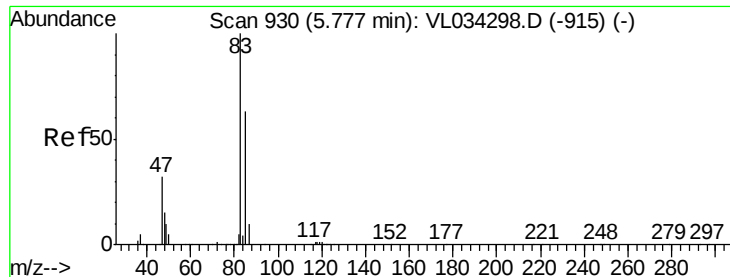
Tgt Ion:	57	Resp:	383062
Ion	Ratio	Lower	Upper
57	100		
41	104.6	76.5	114.7
43	74.5	188.5	282.7#
56	57.1	42.8	64.2



#27
Carbon Disulfide
Concen: 0.949 ppbv
RT: 4.56 min Scan# 550
Delta R.T. 0.00 min
Lab File: VL034345.D
Acq: 24 Oct 2019 14:20

Tgt Ion:	76	Resp:	100051
Ion	Ratio	Lower	Upper
76	100		
44	24.1	17.3	25.9
78	10.0	7.8	11.6





#29

Chloroform

Concen: 39.440 ppbv

RT: 5.79 min Scan# 935

Delta R.T. 0.02 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

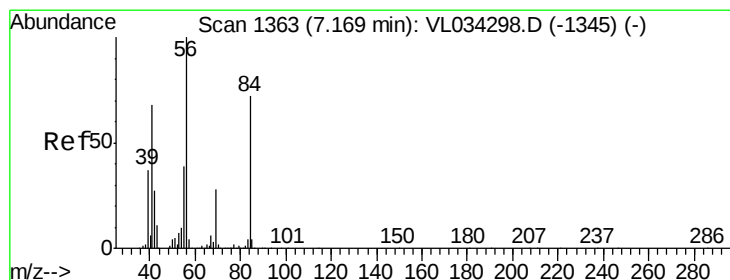
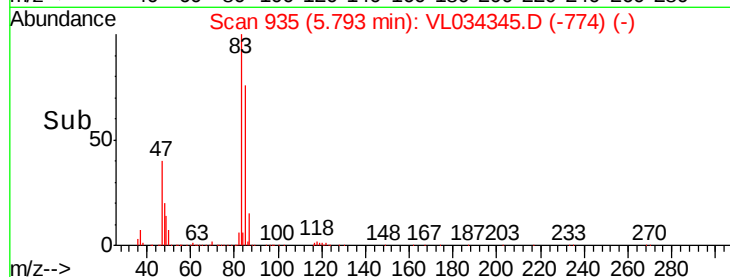
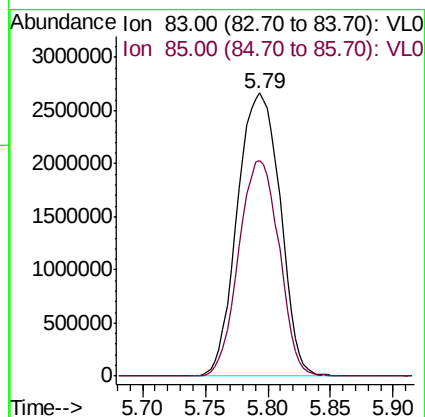
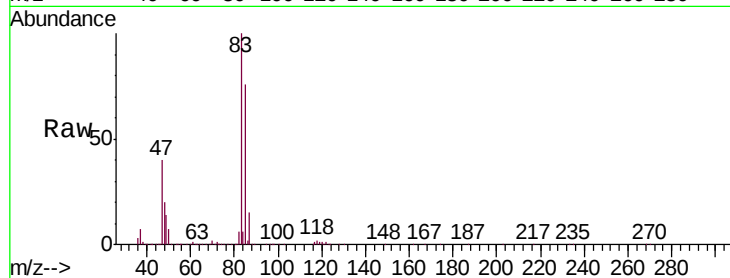
SV5

Tgt Ion: 83 Resp: 6338053

Ion Ratio Lower Upper

83 100

85 76.3 50.5 75.7#



#30

Cyclohexane

Concen: 0.125 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. 0.03 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

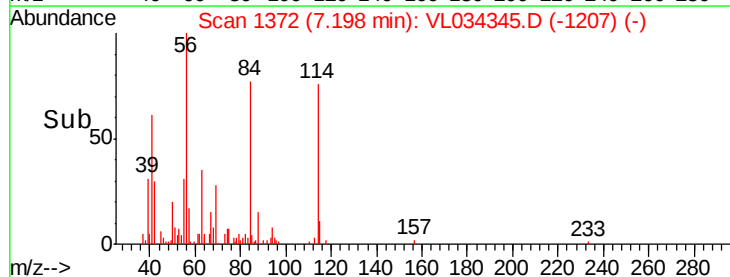
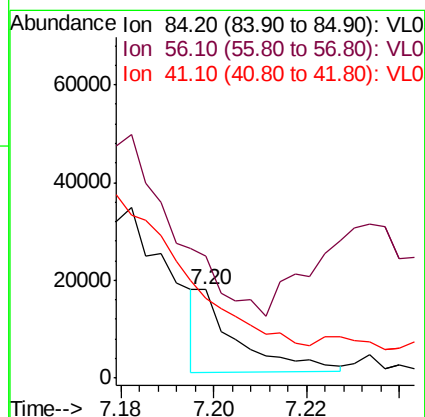
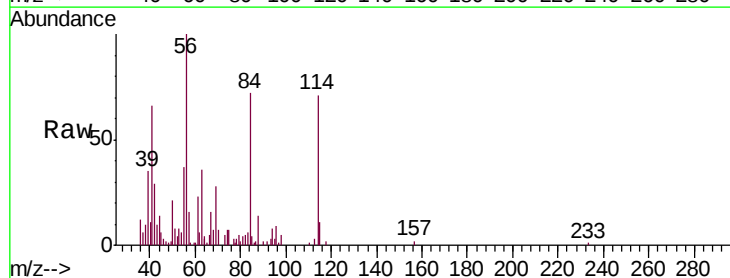
Tgt Ion: 84 Resp: 9358

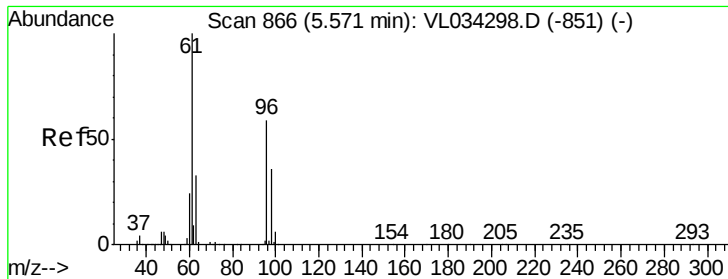
Ion Ratio Lower Upper

84 100

56 0.0 119.4 179.0#

41 0.0 78.7 118.1#



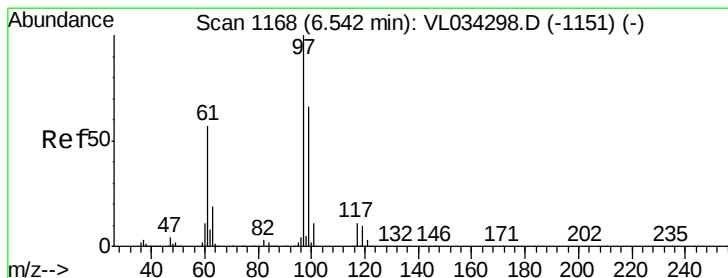
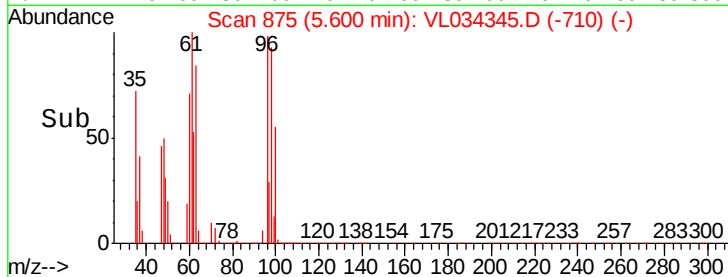
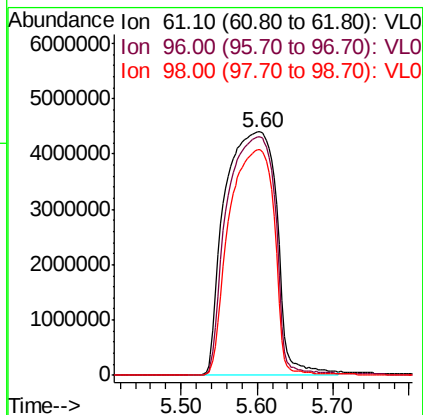
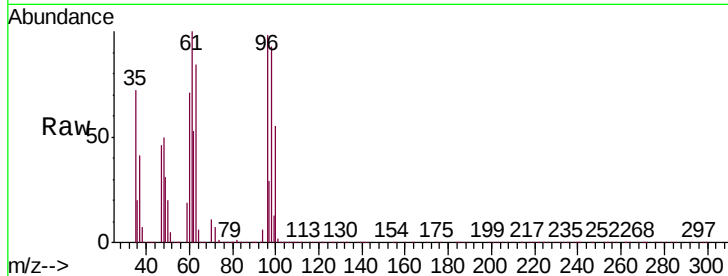


#31

cis-1,2-Dichloroethene
 Concen: 201.920 ppbv
 RT: 5.60 min Scan# 875
 Delta R.T. 0.03 min
 Lab File: VL034345.D
 Acq: 24 Oct 2019 14:20

Instrument :
 MSVOA_L
 ClientSampled :
 SV5

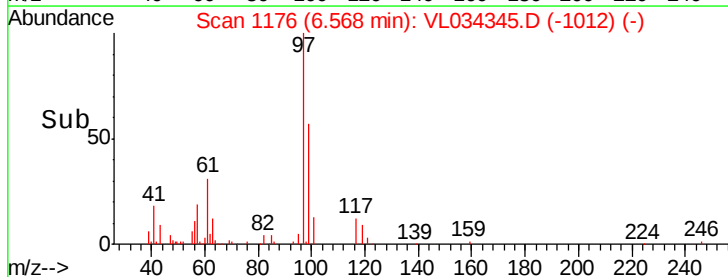
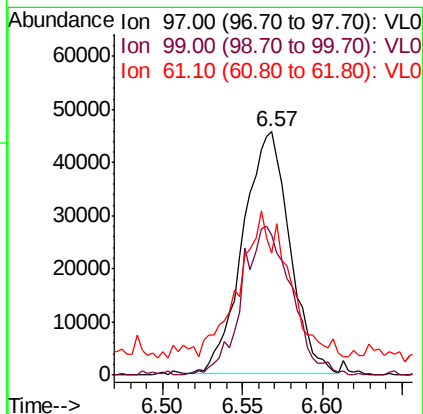
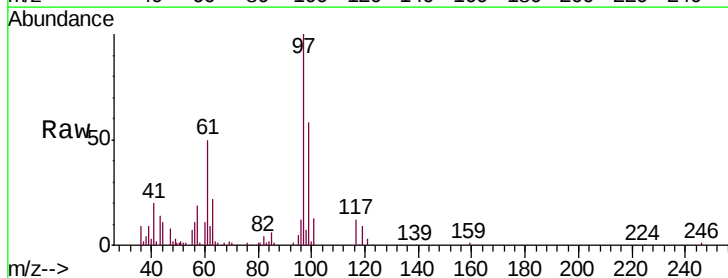
Tgt Ion: 61 Resp:20818374
 Ion Ratio Lower Upper
 61 100
 96 97.8 47.5 71.3#
 98 92.7 28.8 43.2#

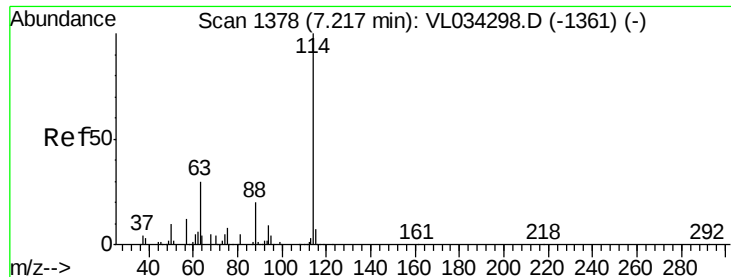


#32

1,1,1-Trichloroethane
 Concen: 0.585 ppbv
 RT: 6.57 min Scan# 1176
 Delta R.T. 0.03 min
 Lab File: VL034345.D
 Acq: 24 Oct 2019 14:20

Tgt Ion: 97 Resp: 91370
 Ion Ratio Lower Upper
 97 100
 99 66.3 52.6 78.8
 61 63.4 44.5 66.7

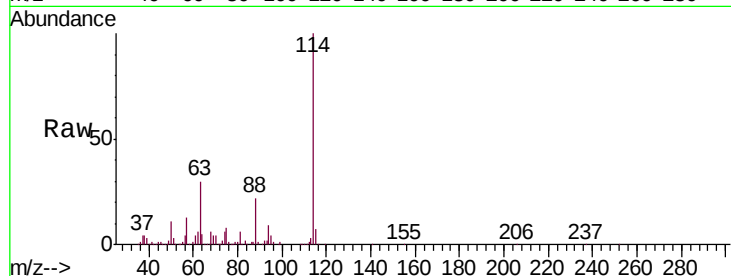




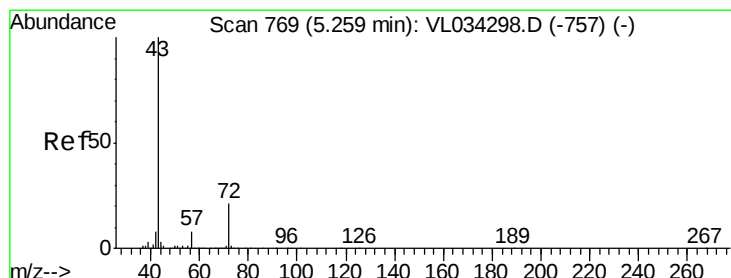
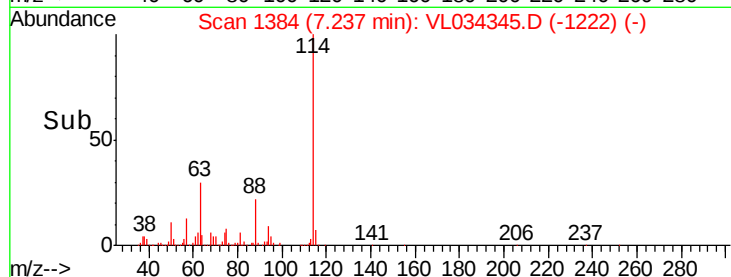
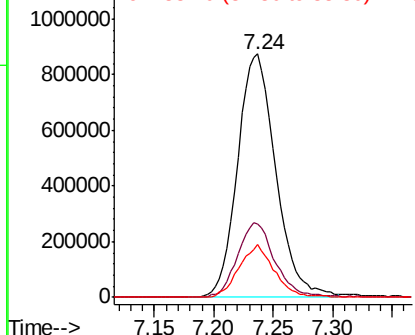
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1384
 Delta R.T. 0.02 min
 Lab File: VL034345.D
 Acq: 24 Oct 2019 14:20

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5

Tgt Ion:114 Resp: 1946669
 Ion Ratio Lower Upper
 114 100
 63 30.4 25.2 37.8
 88 20.1 16.0 24.0

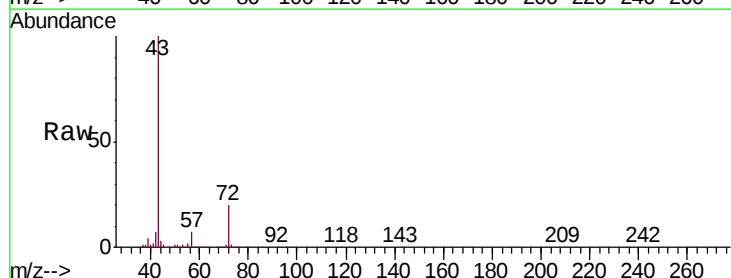


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

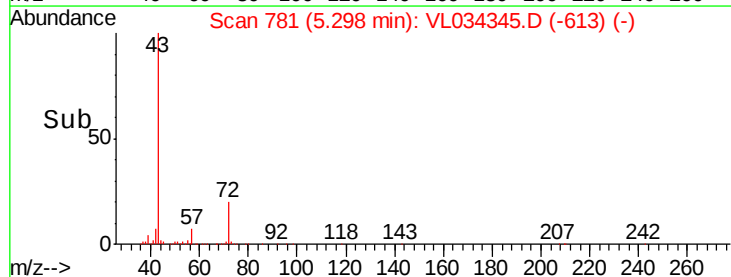
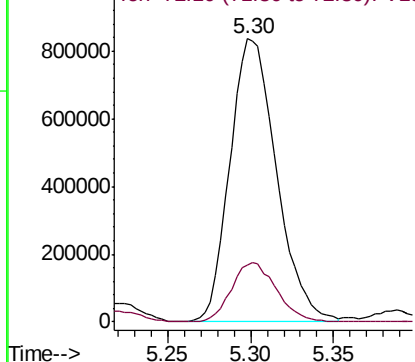


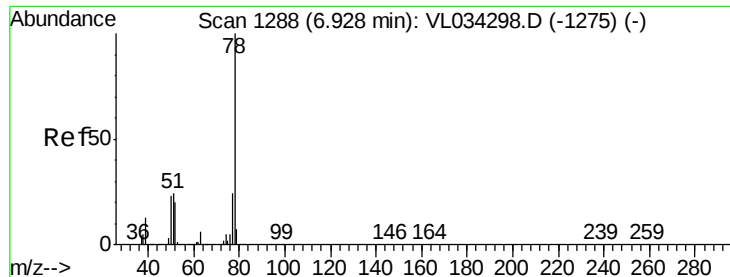
#34
 2-Butanone
 Concen: 10.247 ppbv
 RT: 5.30 min Scan# 781
 Delta R.T. 0.04 min
 Lab File: VL034345.D
 Acq: 24 Oct 2019 14:20

Tgt Ion: 43 Resp: 1630533
 Ion Ratio Lower Upper
 43 100
 72 20.6 16.3 24.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 11.731 ppbv

RT: 6.95 min Scan# 1295

Delta R.T. 0.02 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

SV5

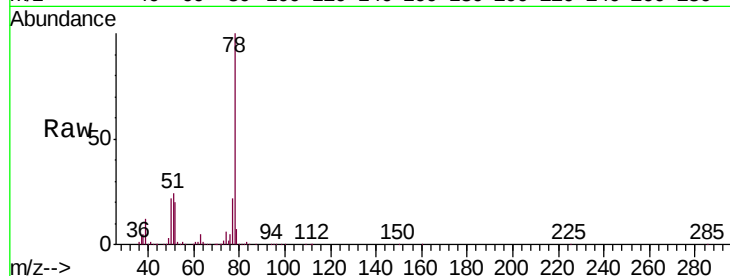
Tgt Ion: 78 Resp: 2191145

Ion Ratio Lower Upper

78 100

77 22.0 19.0 28.4

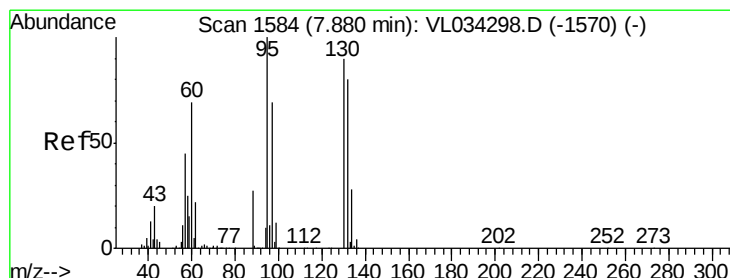
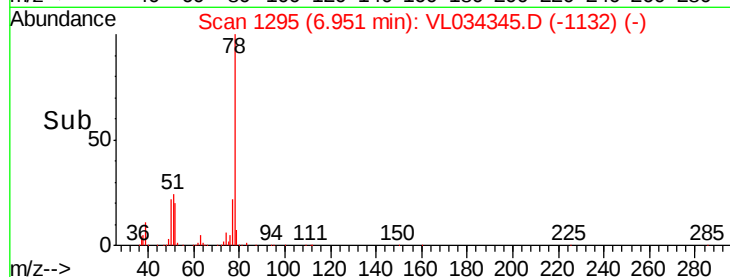
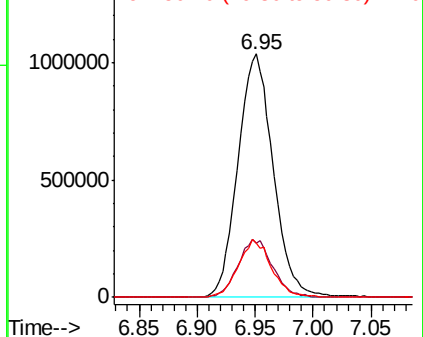
50 22.0 18.6 27.8



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 507.706 ppbv

RT: 7.96 min Scan# 1608

Delta R.T. 0.08 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Tgt Ion: 130 Resp: 38052825

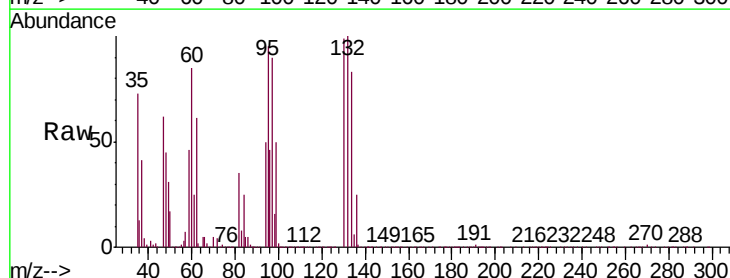
Ion Ratio Lower Upper

130 100

95 96.5 88.6 132.8

132 101.1 71.2 106.8

97 91.3 61.0 91.4

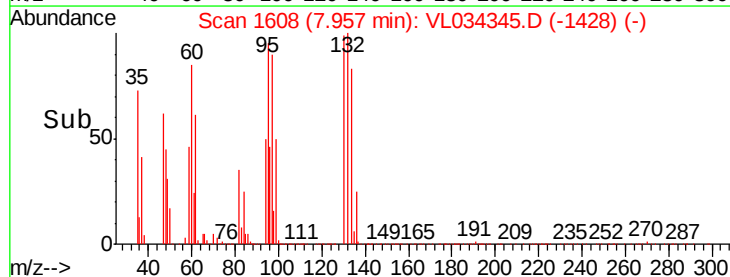
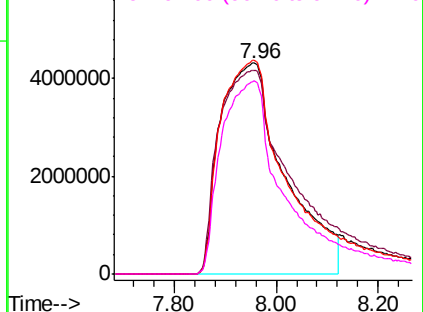


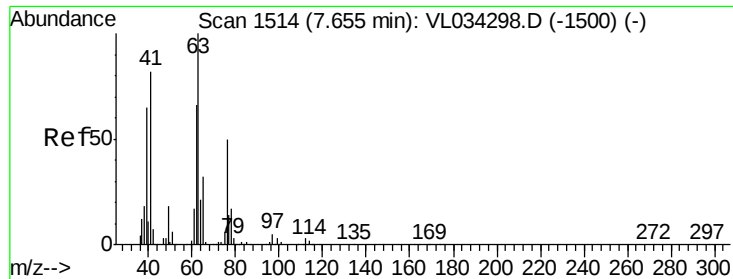
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 1.055 ppbv

RT: 7.91 min Scan# 1593

Delta R.T. 0.25 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

SV5

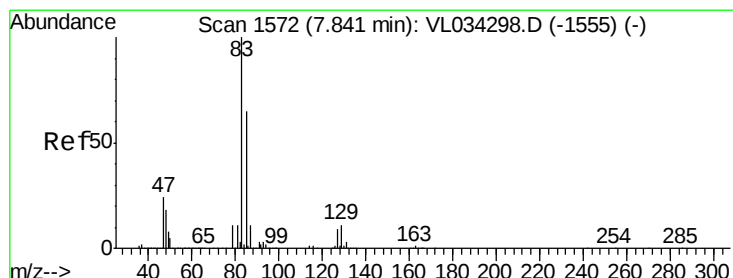
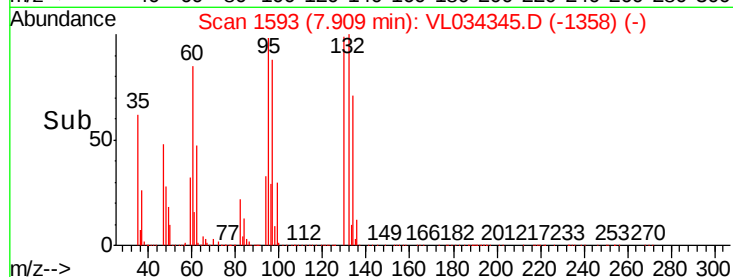
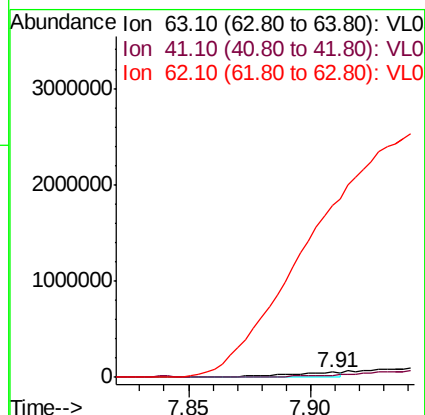
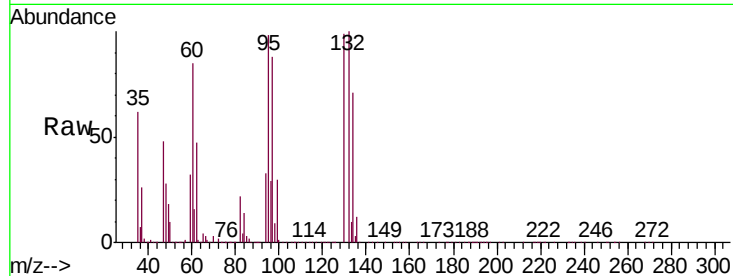
Tgt Ion: 63 Resp: 84829

Ion Ratio Lower Upper

63 100

41 28.0 65.6 98.4#

62 3538.5 53.0 79.6#



#42

Bromodichloromethane

Concen: 8.009 ppbv

RT: 7.95 min Scan# 1607

Delta R.T. 0.11 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

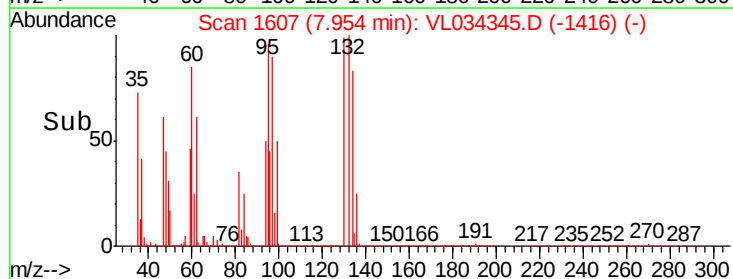
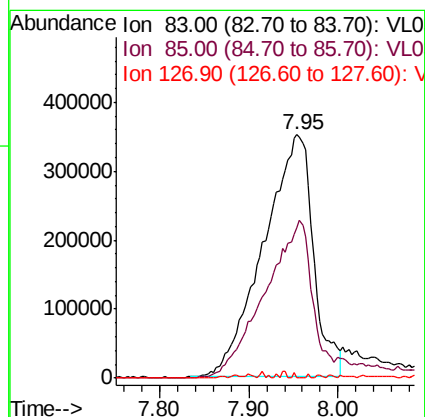
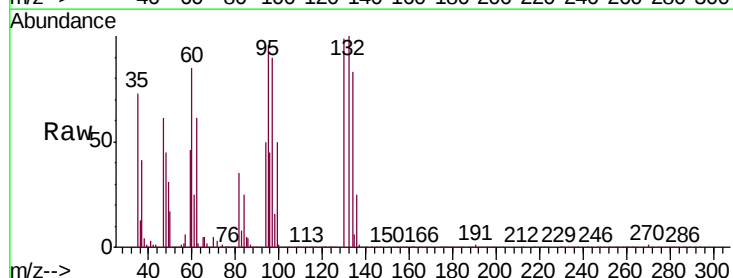
Tgt Ion: 83 Resp: 1365569

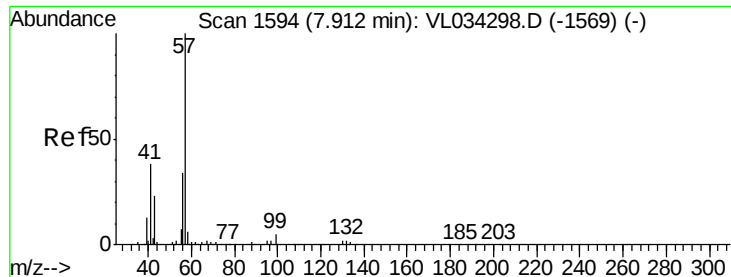
Ion Ratio Lower Upper

83 100

85 61.6 51.8 77.6

127 0.0 7.0 10.6#





#44

2,2,4-Trimethylpentane

Concen: 5.403 ppbv

RT: 7.98 min Scan# 1614

Delta R.T. 0.06 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

SV5

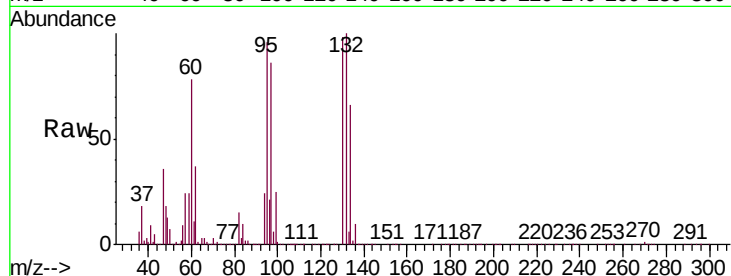
Tgt Ion: 57 Resp: 1867876

Ion Ratio Lower Upper

57 100

41 41.2 29.3 43.9

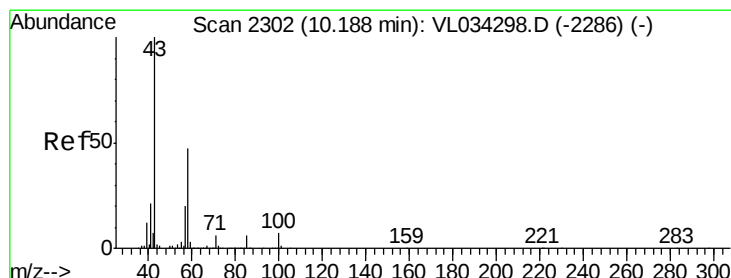
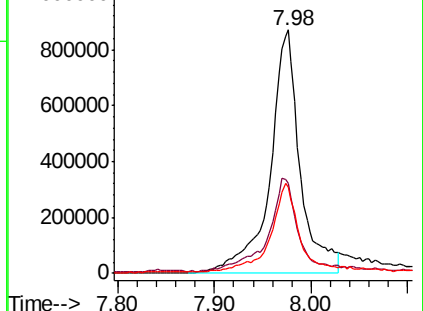
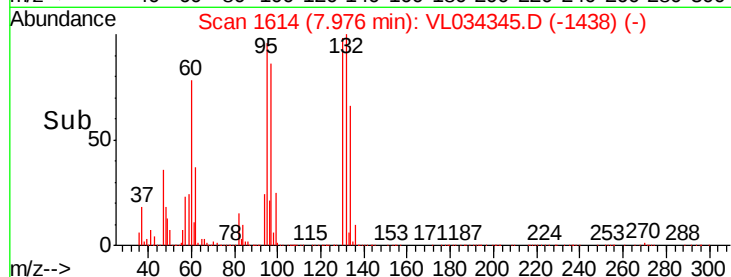
56 37.7 25.3 37.9



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#51

2-Hexanone

Concen: 0.079 ppbv

RT: 10.22 min Scan# 2311

Delta R.T. 0.03 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

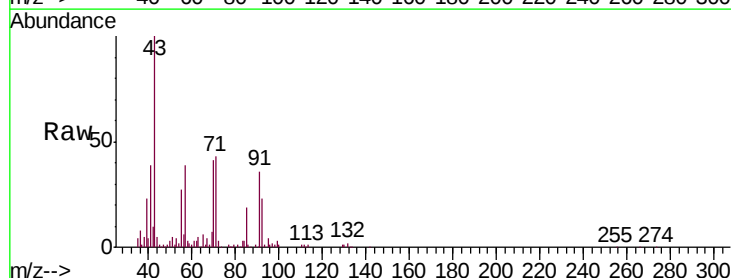
Tgt Ion: 43 Resp: 14757

Ion Ratio Lower Upper

43 100

58 0.0 37.0 55.6#

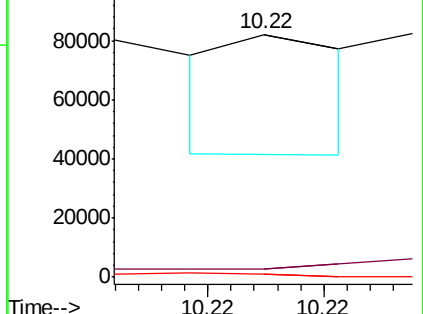
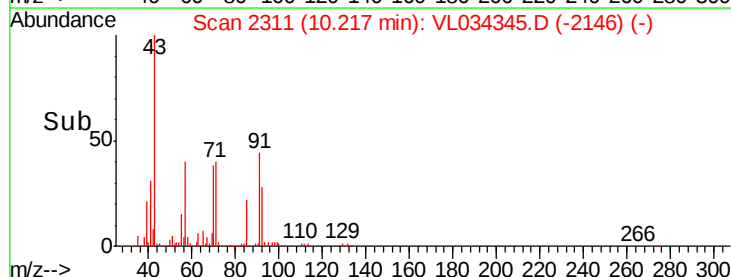
98 0.0 0.2 0.2#

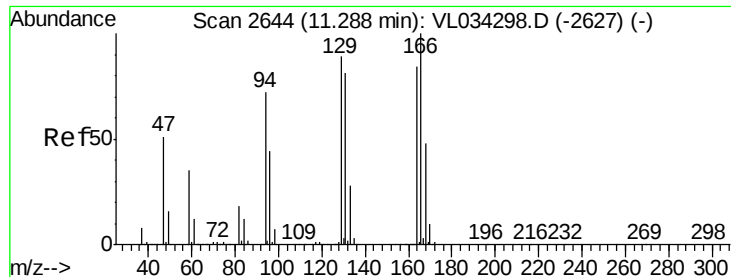


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0





#52

Tetrachloroethene

Concen: 493.468 ppbv

RT: 11.43 min Scan# 2689

Delta R.T. 0.14 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

SV5

Tgt Ion:164 Resp:36127777

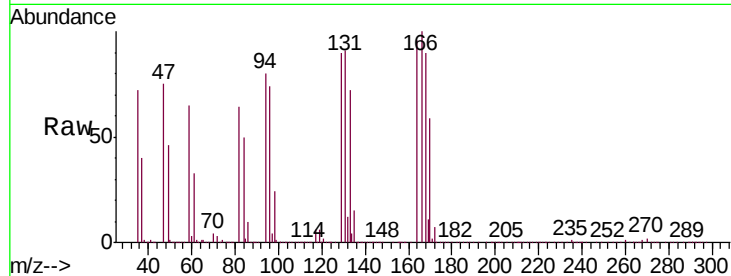
Ion Ratio Lower Upper

164 100

166 104.7 95.3 142.9

129 94.0 84.5 126.7

131 95.0 77.3 115.9



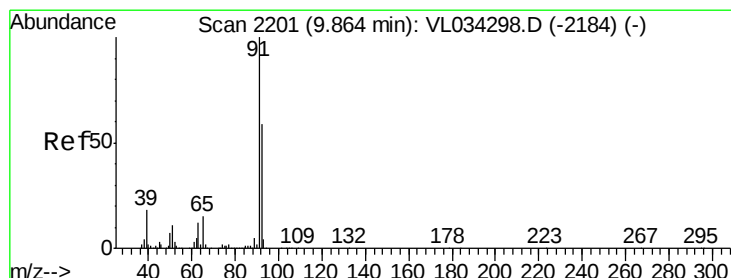
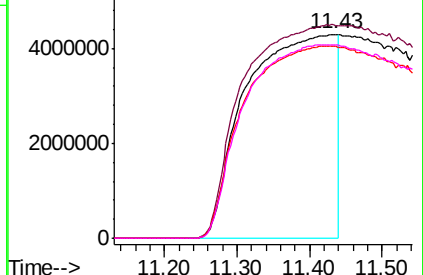
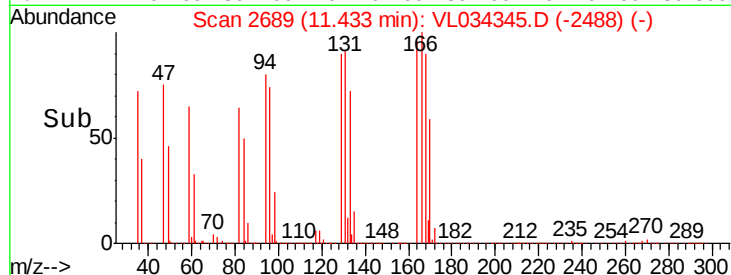
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Time-->



#53

Toluene

Concen: 0.039 ppbv

RT: 9.90 min Scan# 2211

Delta R.T. 0.03 min

Lab File: VL034345.D

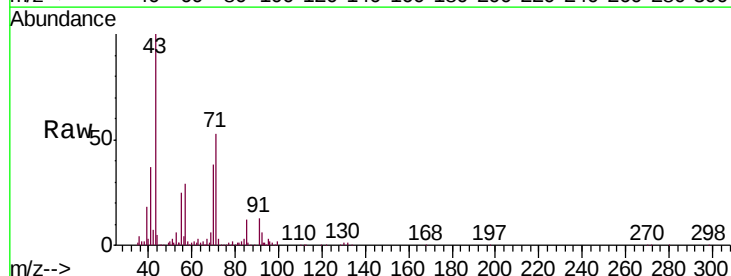
Acq: 24 Oct 2019 14:20

Tgt Ion: 91 Resp: 8137

Ion Ratio Lower Upper

91 100

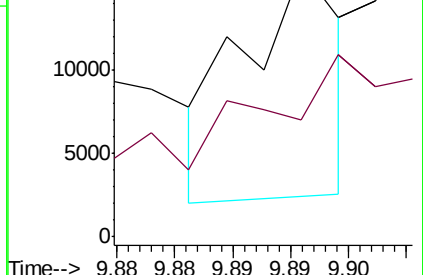
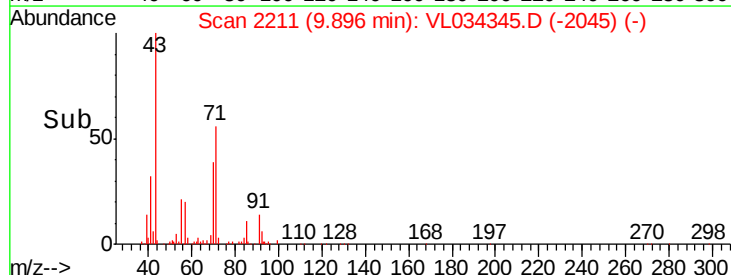
92 0.0 48.4 72.6#

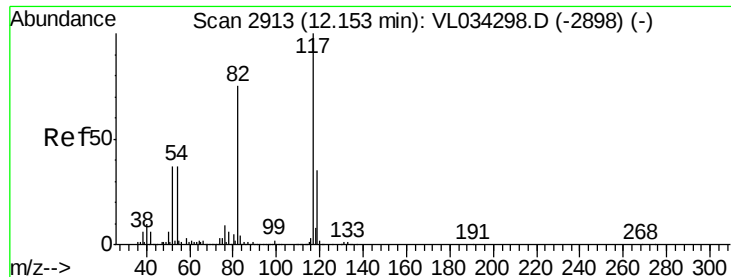


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Time-->

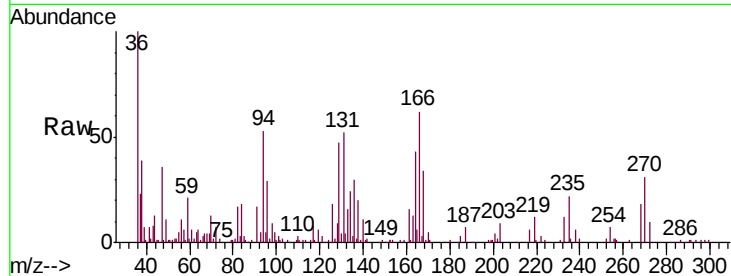




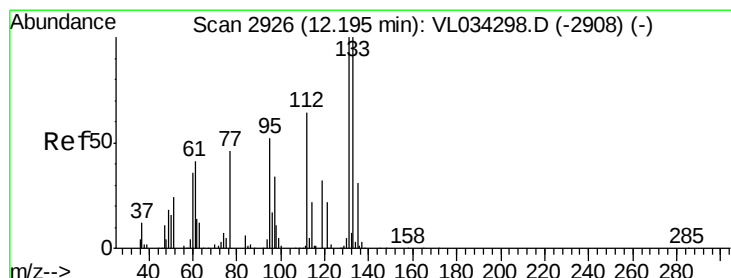
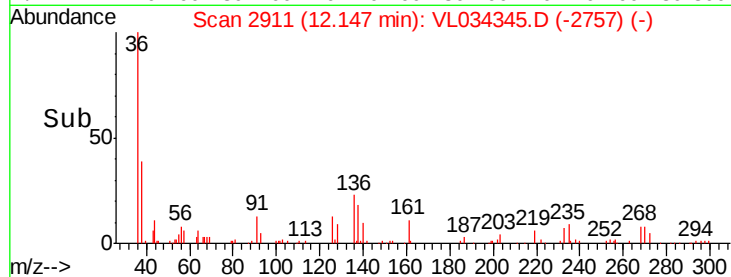
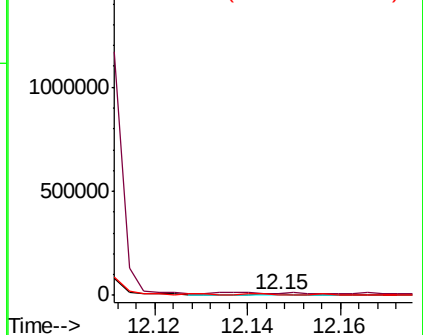
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL034345.D
Acq: 24 Oct 2019 14:20

Instrument :
MSVOA_L
ClientSampleId :
SV5

Tgt Ion:117 Resp: 7385
Ion Ratio Lower Upper
117 100
82 0.0 55.5 83.3#
119 0.0 26.5 39.7#

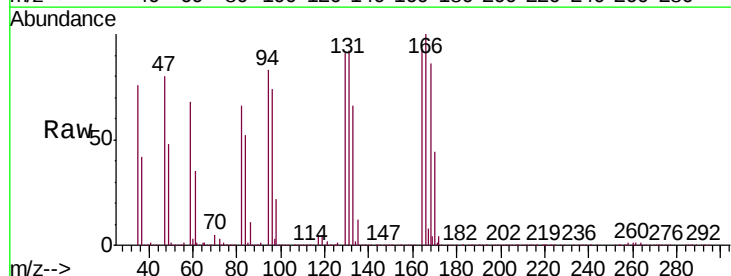


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

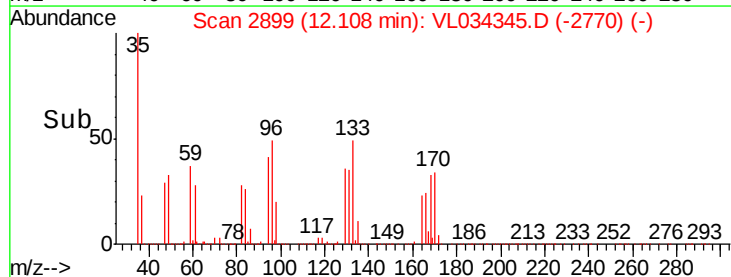
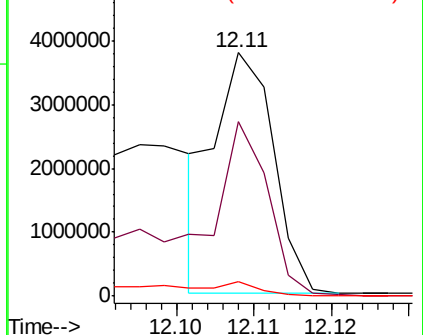


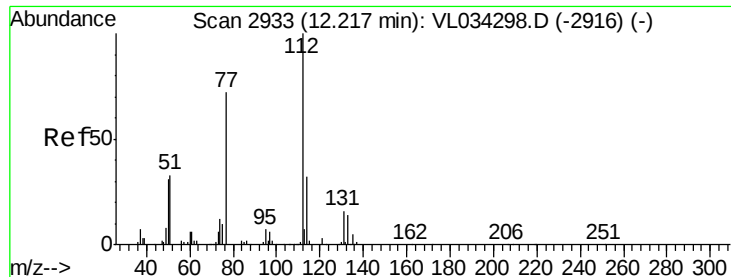
#56
1,1,1,2-Tetrachloroethane
Concen: 5750.723 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.09 min
Lab File: VL034345.D
Acq: 24 Oct 2019 14:20

Tgt Ion:131 Resp: 1957193
Ion Ratio Lower Upper
131 100
133 239.7 77.1 115.7#
119 31.6 49.0 73.4#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V

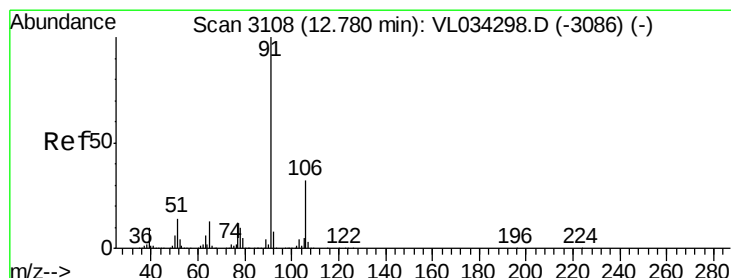
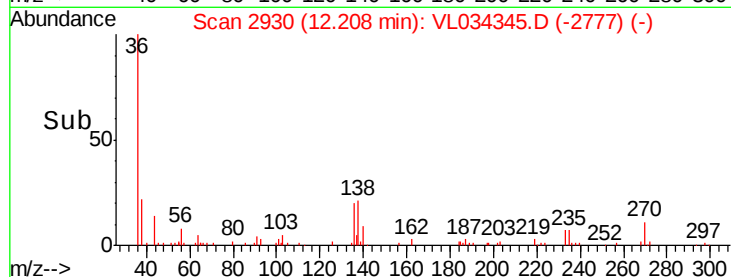
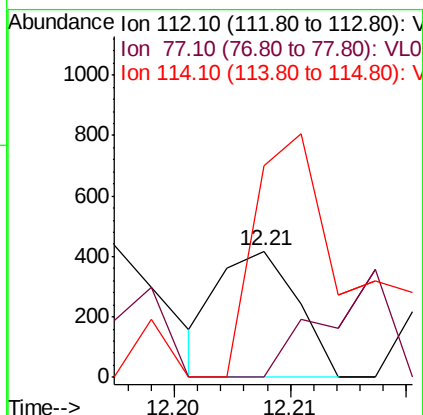
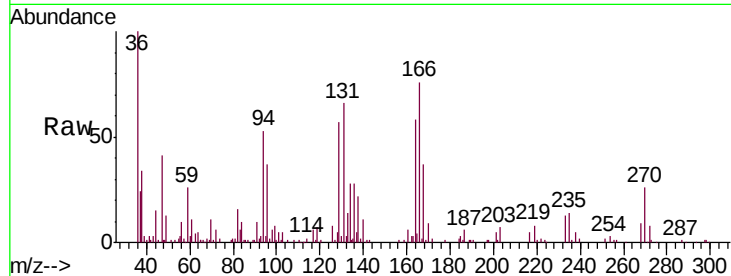




#57
Chlorobenzene
Concen: 0.320 ppbv
RT: 12.21 min Scan# 2930
Delta R.T. -0.01 min
Lab File: VL034345.D
Acq: 24 Oct 2019 14:20

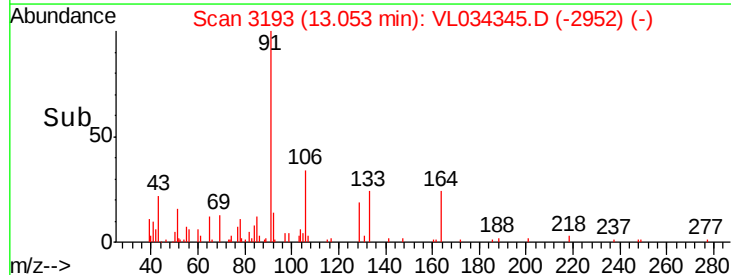
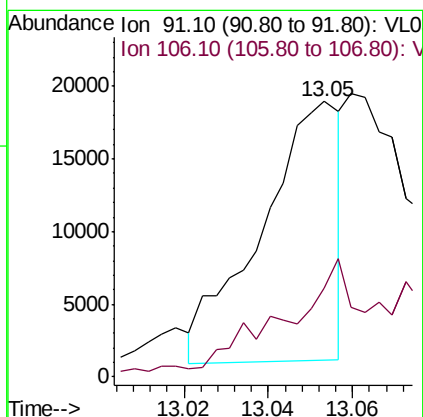
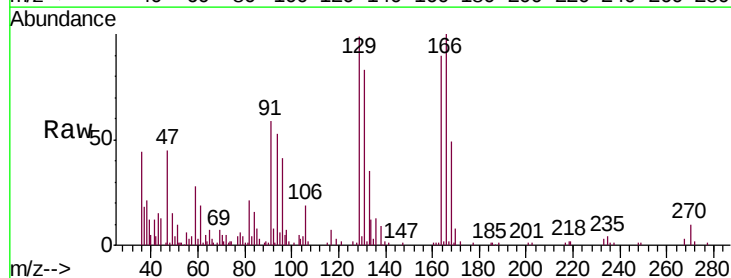
Instrument :
MSVOA_L
ClientSampleId :
SV5

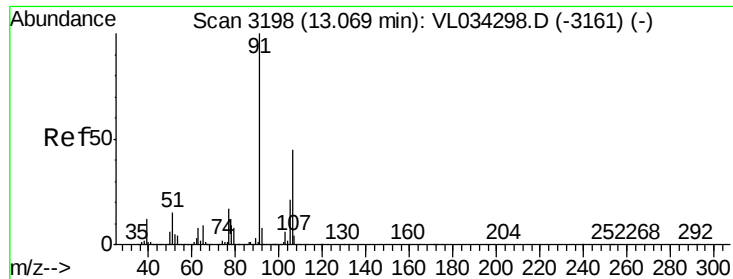
Tgt Ion: 112 Resp: 197
Ion Ratio Lower Upper
112 100
77 0.0 58.6 88.0#
114 167.2 28.6 35.0#



#58
Ethyl Benzene
Concen: 22.434 ppbv
RT: 13.05 min Scan# 3193
Delta R.T. 0.27 min
Lab File: VL034345.D
Acq: 24 Oct 2019 14:20

Tgt Ion: 91 Resp: 23160
Ion Ratio Lower Upper
91 100
106 34.8 25.3 37.9





#59

m/p-Xylene

Concen: 27.098 ppbv

RT: 13.06 min Scan# 3195

Delta R.T. -0.01 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

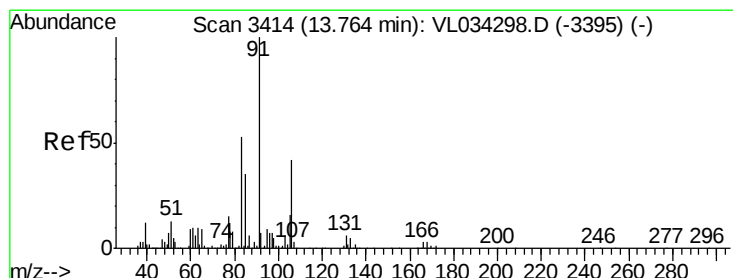
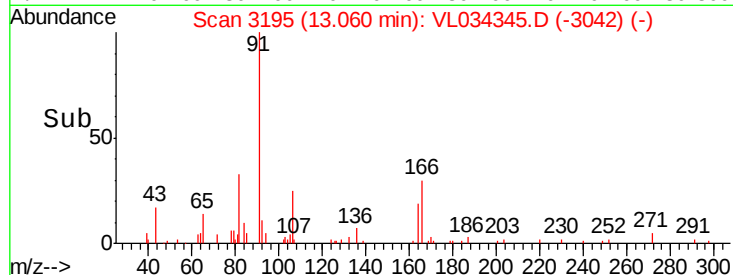
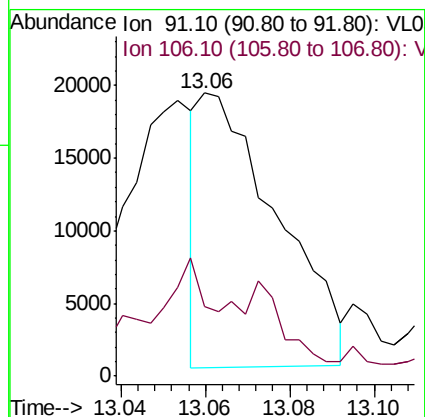
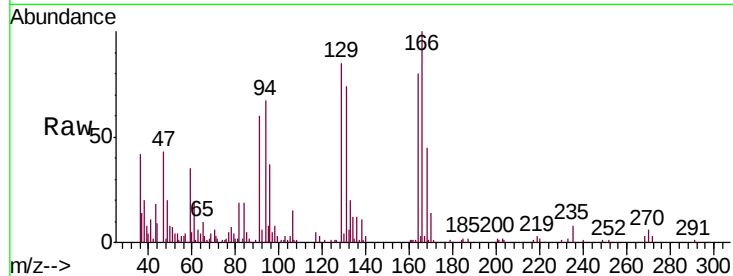
SV5

Tgt Ion: 91 Resp: 24238

Ion Ratio Lower Upper

91 100

106 74.5 35.4 53.2#



#60

o-Xylene

Concen: 0.595 ppbv

RT: 13.75 min Scan# 3411

Delta R.T. -0.01 min

Lab File: VL034345.D

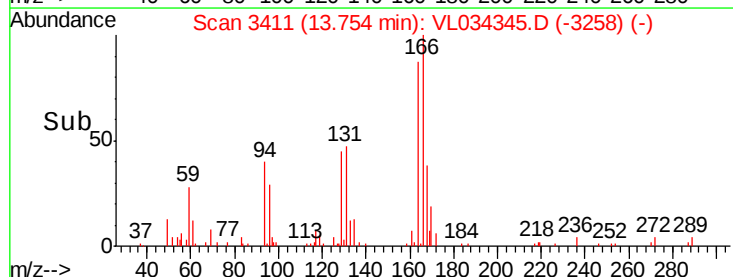
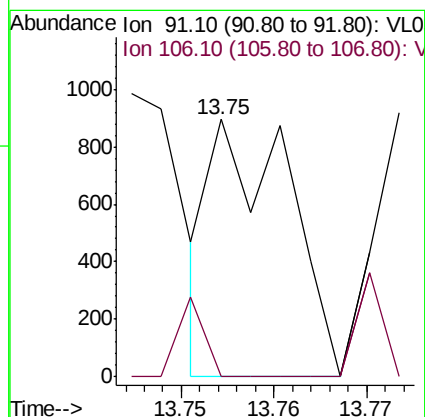
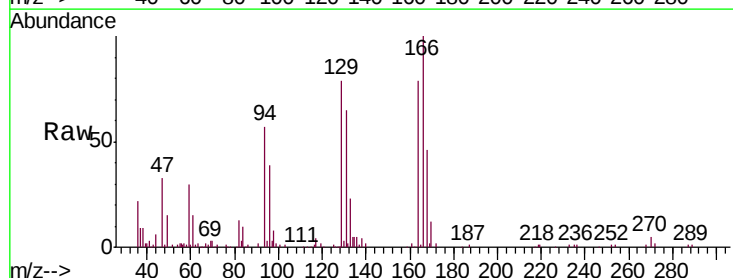
Acq: 24 Oct 2019 14:20

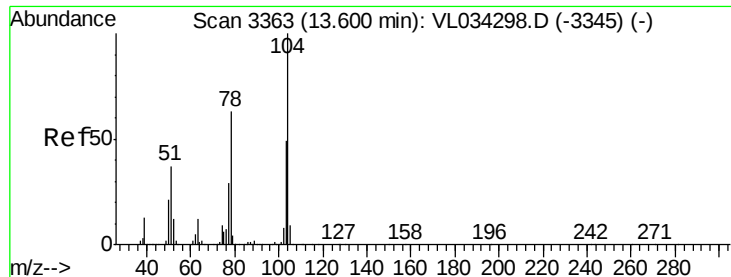
Tgt Ion: 91 Resp: 530

Ion Ratio Lower Upper

91 100

106 0.0 21.6 64.6#





#61

Styrene

Concen: 0.046 ppbv

RT: 13.63 min Scan# 3371

Delta R.T. 0.03 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

SV5

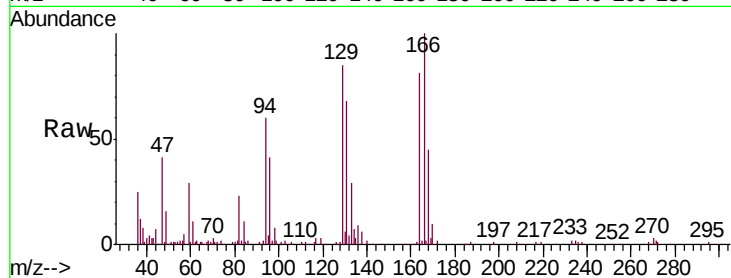
Tgt Ion:104 Resp: 29

Ion Ratio Lower Upper

104 100

78 955.2 47.8 71.8#

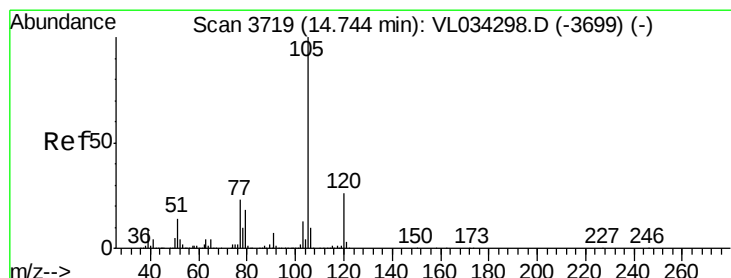
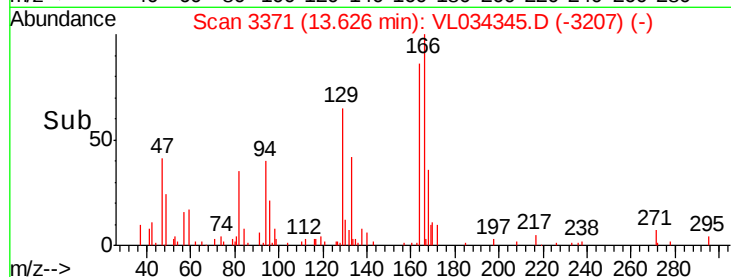
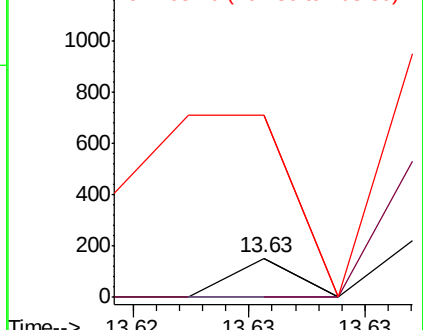
103 0.0 39.0 58.6#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.112 ppbv

RT: 14.74 min Scan# 3717

Delta R.T. -0.01 min

Lab File: VL034345.D

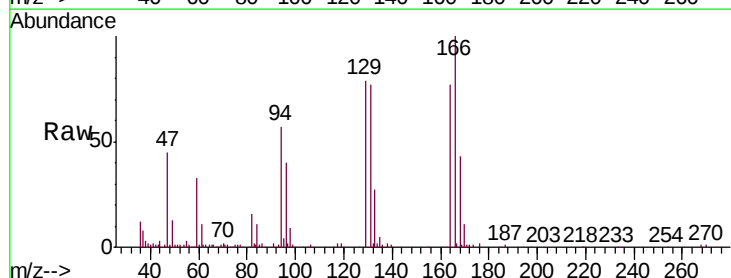
Acq: 24 Oct 2019 14:20

Tgt Ion:105 Resp: 132

Ion Ratio Lower Upper

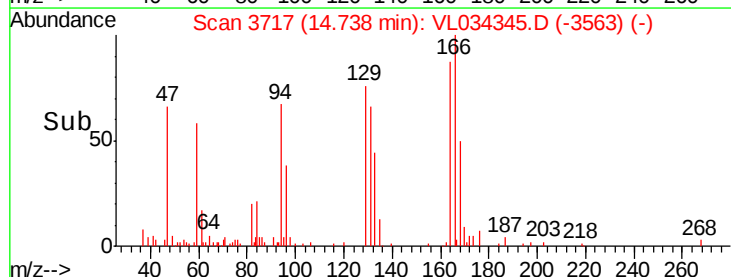
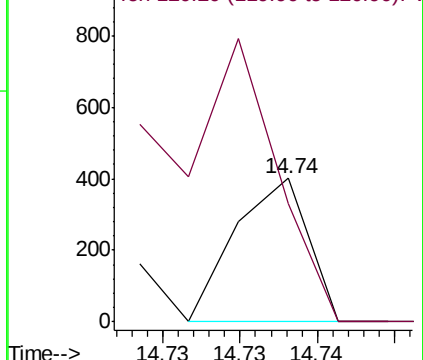
105 100

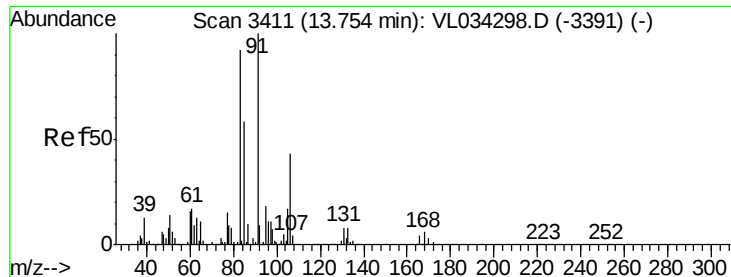
120 661.4 20.8 31.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.324 ppbv

RT: 13.74 min Scan# 3408

Delta R.T. -0.01 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampled :

SV5

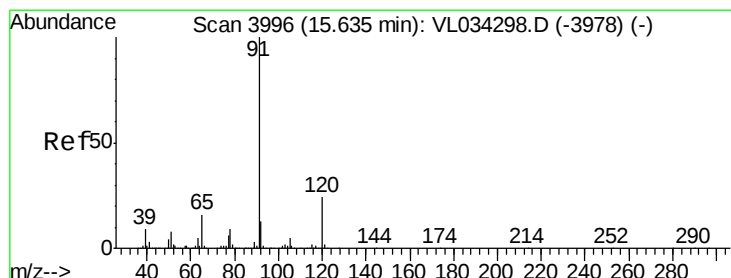
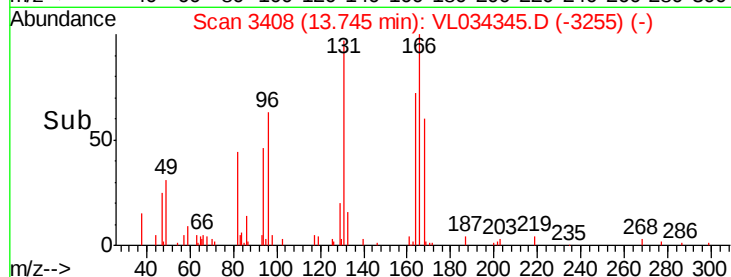
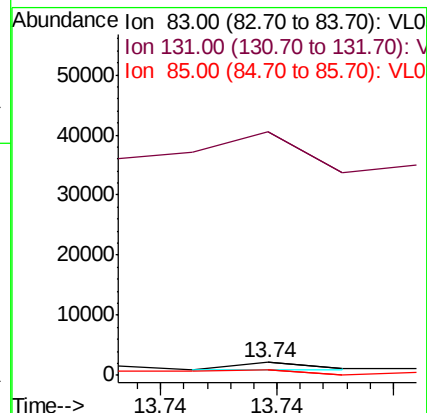
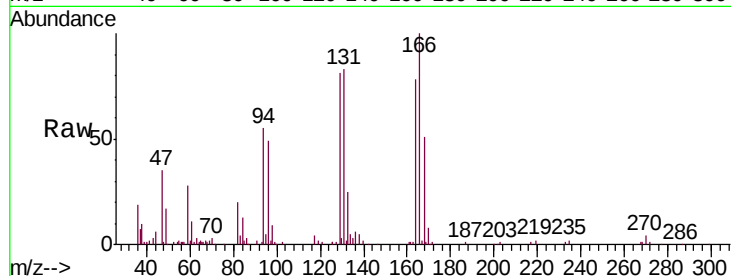
Tgt Ion: 83 Resp: 232

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

85 640.1 32.5 97.4#



#64

n-propylbenzene

Concen: 2.290 ppbv

RT: 15.51 min Scan# 3956

Delta R.T. -0.13 min

Lab File: VL034345.D

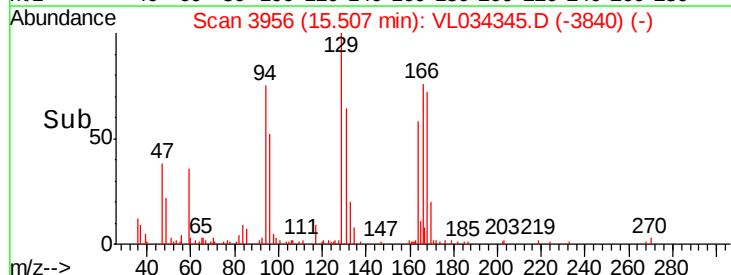
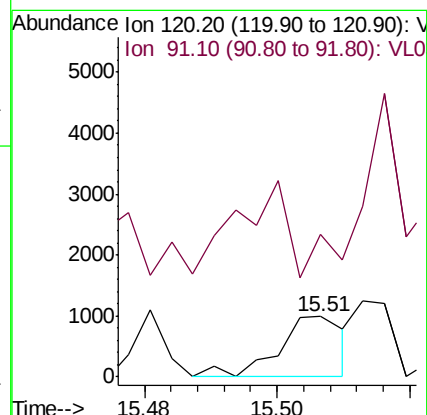
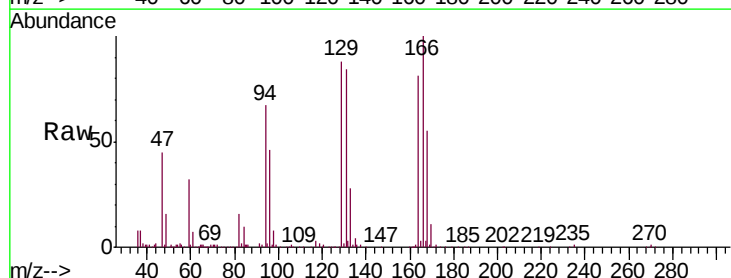
Acq: 24 Oct 2019 14:20

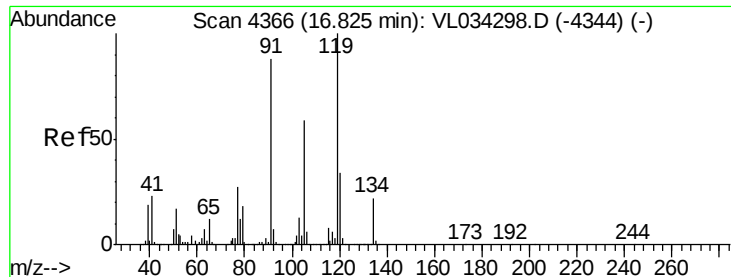
Tgt Ion: 120 Resp: 691

Ion Ratio Lower Upper

120 100

91 383.1 374.9 562.3

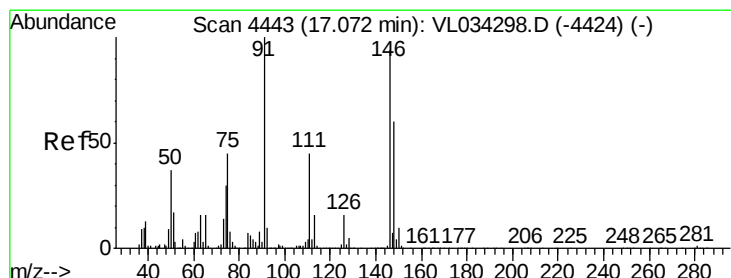
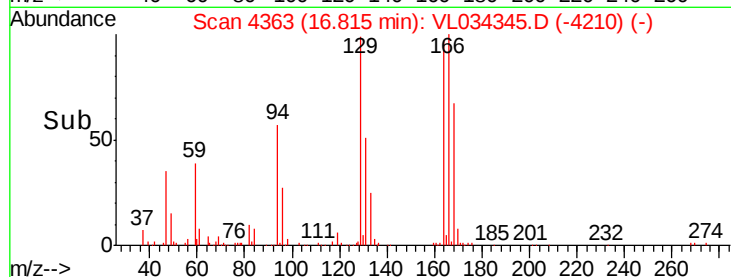
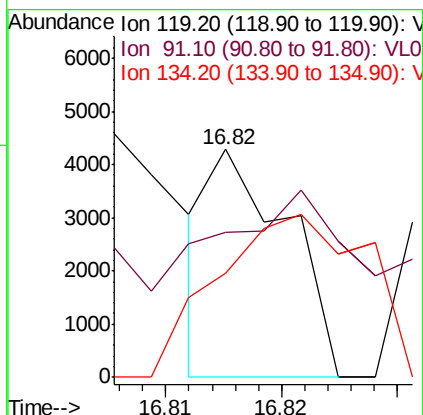
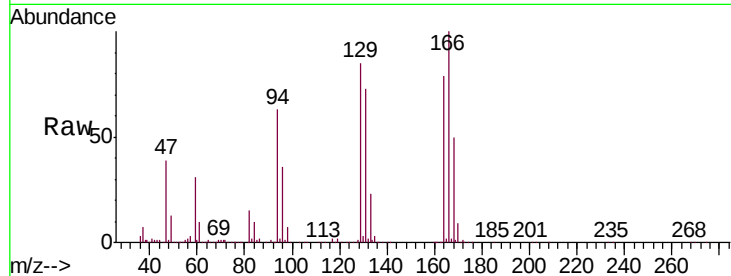




#65
tert-Butylbenzene
Concen: 1.897 ppbv
RT: 16.82 min Scan# 4363
Delta R.T. -0.01 min
Lab File: VL034345.D
Acq: 24 Oct 2019 14:20

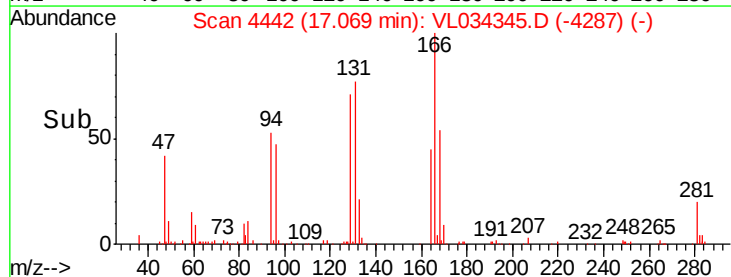
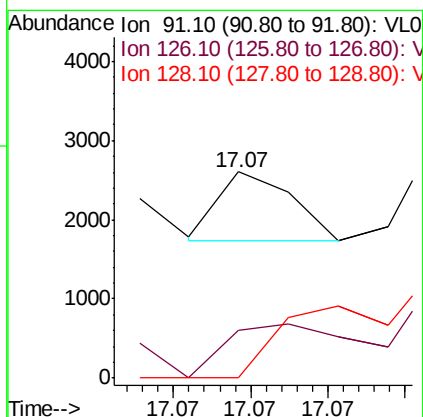
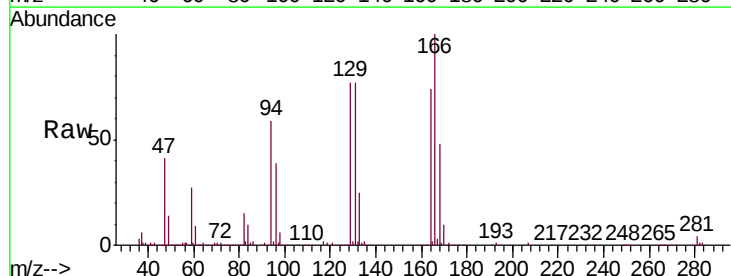
Instrument :
MSVOA_L
ClientSampled :
SV5

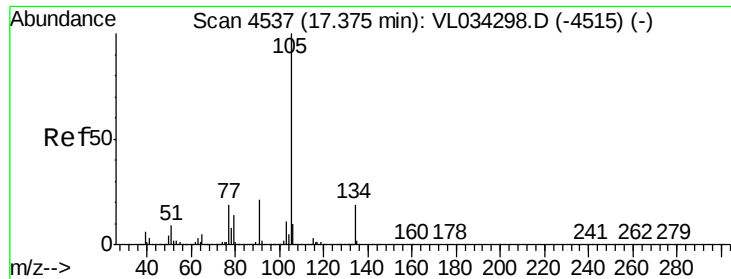
Tgt Ion: 119 Resp: 1977
Ion Ratio Lower Upper
119 100
91 186.5 71.4 107.0#
134 0.0 15.9 23.9#



#66
Benzyl Chloride
Concen: 0.700 ppbv
RT: 17.07 min Scan# 4442
Delta R.T. -0.00 min
Lab File: VL034345.D
Acq: 24 Oct 2019 14:20

Tgt Ion: 91 Resp: 288
Ion Ratio Lower Upper
91 100
126 0.0 12.9 19.3#
128 0.0 4.3 6.5#





#67

sec-Butylbenzene

Concen: 0.194 ppbv

RT: 17.36 min Scan# 4532

Delta R.T. -0.02 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampled :

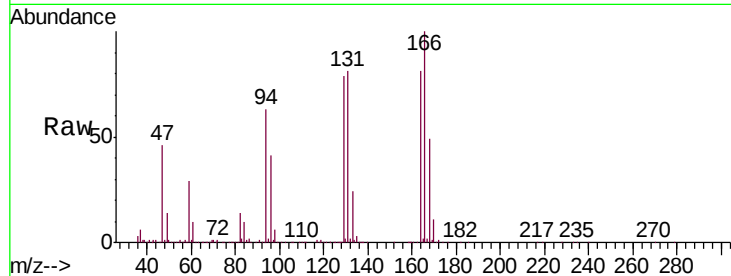
SV5

Tgt Ion: 105 Resp: 284

Ion Ratio Lower Upper

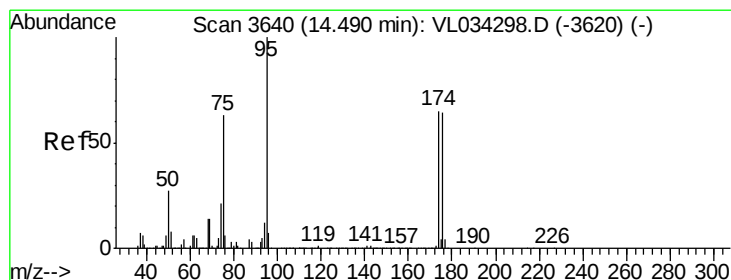
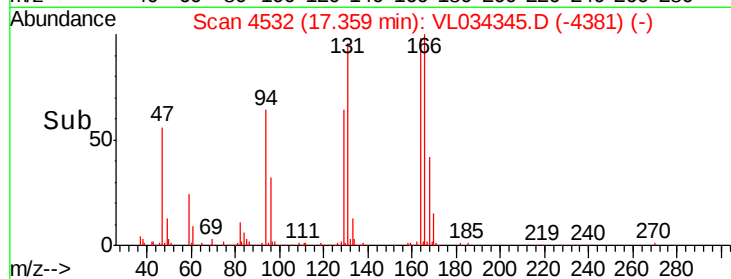
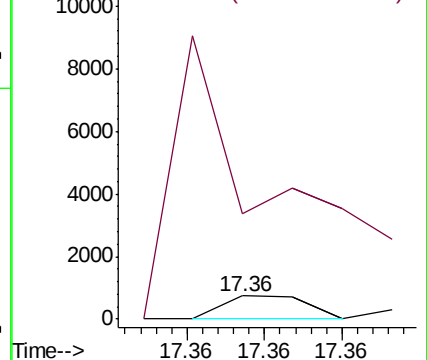
105 100

134 2963.4 15.4 23.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 0.932 ppbv

RT: 14.49 min Scan# 3640

Delta R.T. 0.00 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

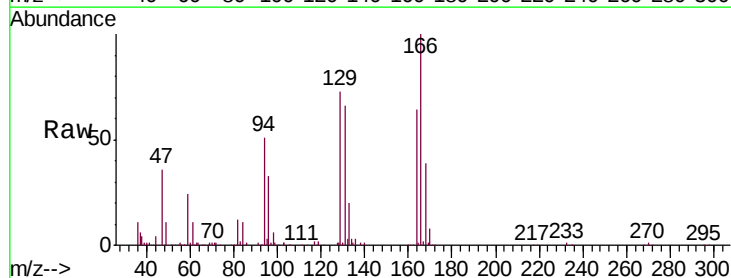
Tgt Ion: 95 Resp: 583

Ion Ratio Lower Upper

95 100

174 0.0 52.6 78.8#

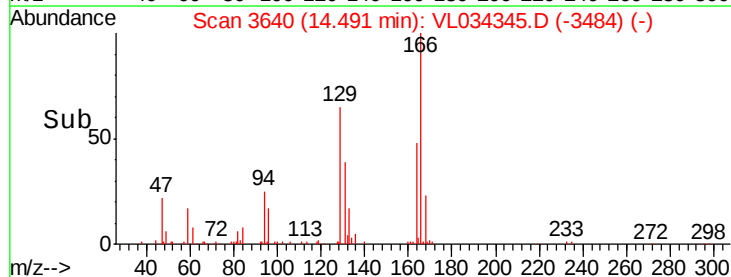
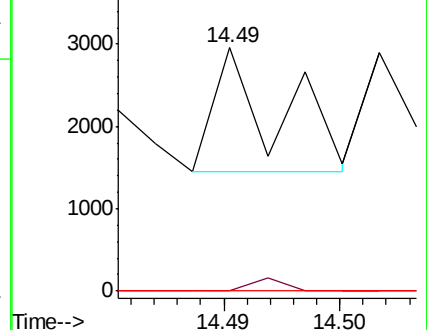
175 0.0 3.8 5.6#

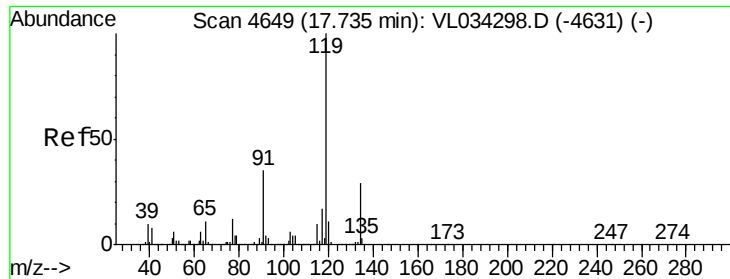


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.299 ppbv

RT: 17.73 min Scan# 4648

Delta R.T. -0.00 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

SV5

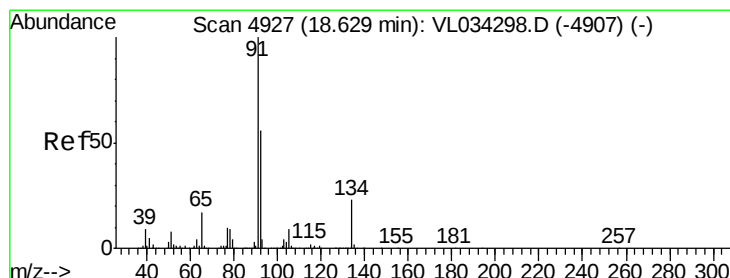
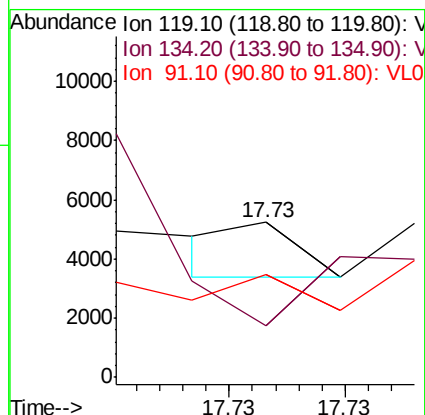
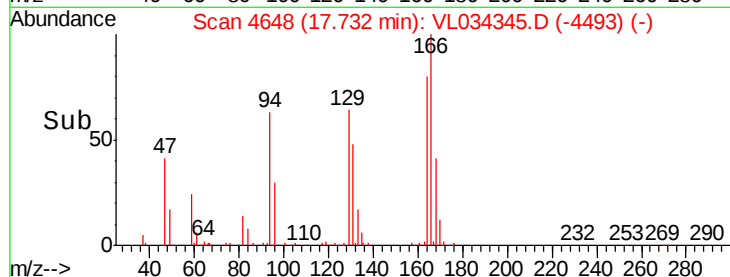
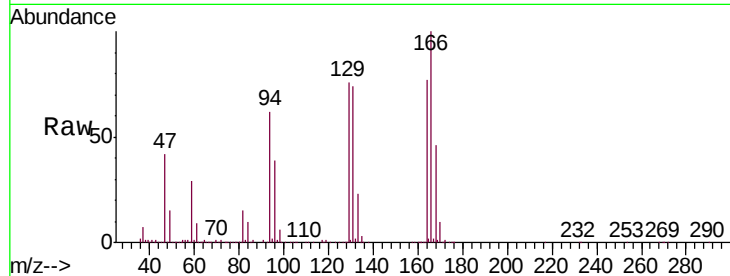
Tgt Ion: 119 Resp: 358

Ion Ratio Lower Upper

119 100

134 0.0 21.3 31.9#

91 0.0 26.6 39.8#



#70

n-Butylbenzene

Concen: 0.500 ppbv

RT: 18.62 min Scan# 4923

Delta R.T. -0.01 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

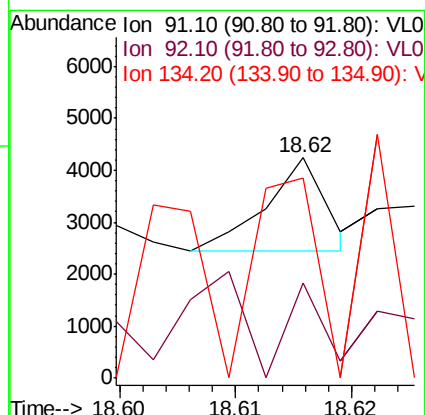
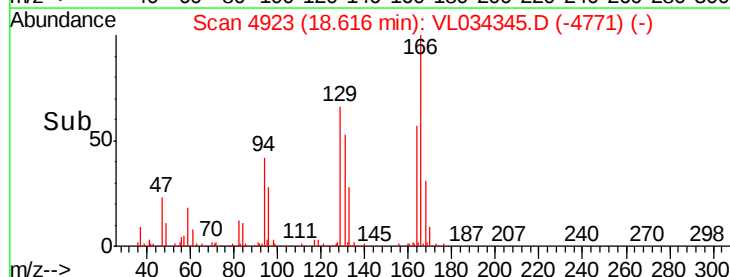
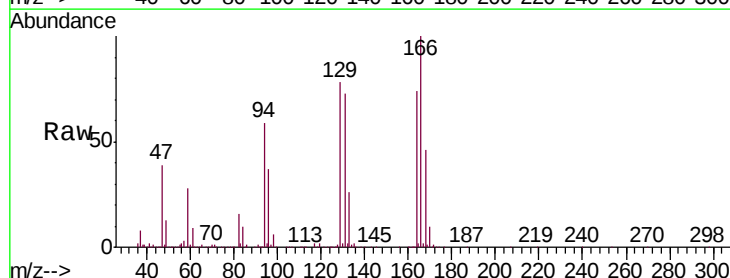
Tgt Ion: 91 Resp: 650

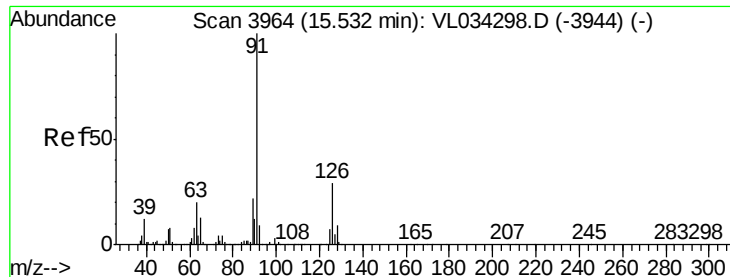
Ion Ratio Lower Upper

91 100

92 337.8 44.5 66.7#

134 0.0 18.2 27.2#

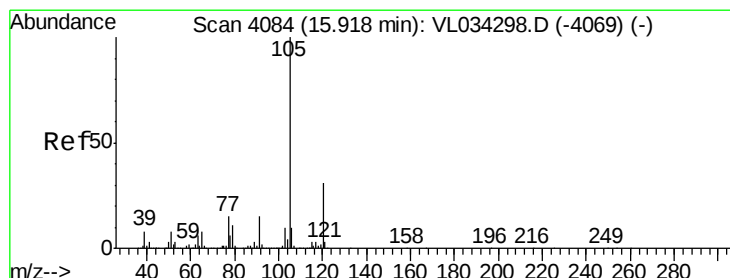
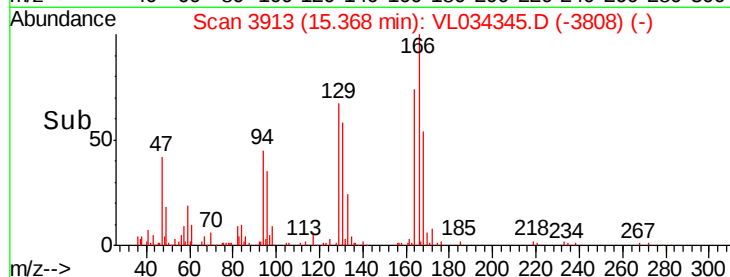
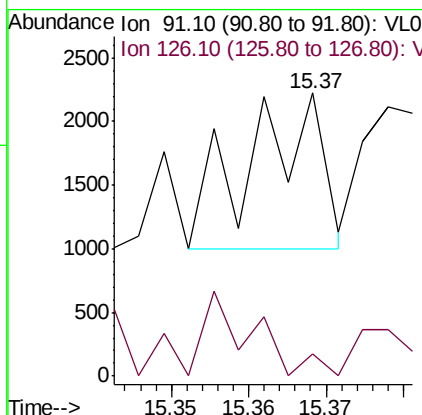
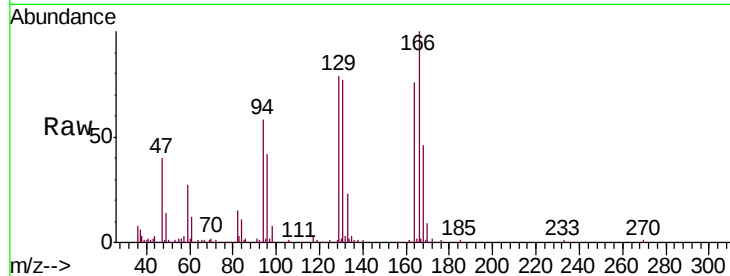




#71
 2-Chlorotoluene
 Concen: 0.880 ppbv
 RT: 15.37 min Scan# 3913
 Delta R.T. -0.16 min
 Lab File: VL034345.D
 Acq: 24 Oct 2019 14:20

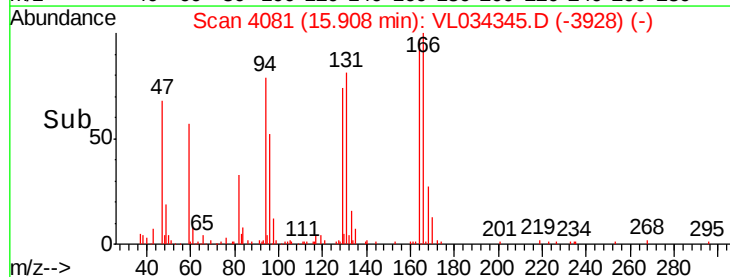
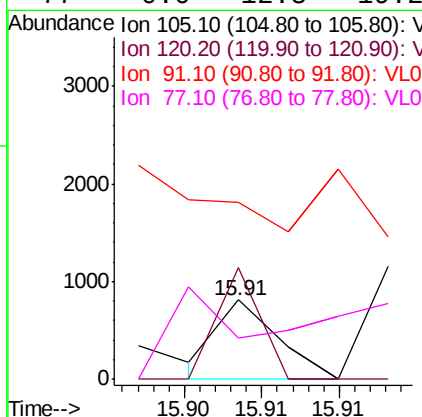
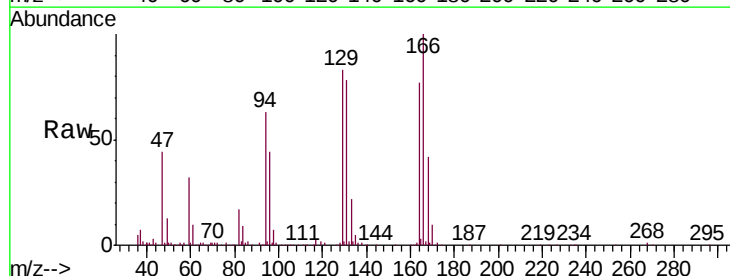
Instrument :
 MSVOA_L
 ClientSampleId :
 SV5

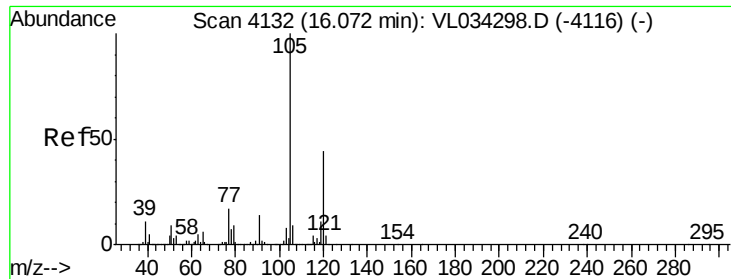
Tgt Ion: 91 Resp: 802
 Ion Ratio Lower Upper
 91 100
 126 36.5 11.9 47.5



#72
 4-Ethyltoluene
 Concen: 0.218 ppbv
 RT: 15.91 min Scan# 4081
 Delta R.T. -0.01 min
 Lab File: VL034345.D
 Acq: 24 Oct 2019 14:20

Tgt Ion: 105 Resp: 218
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.8 35.8#
 91 0.0 11.2 16.8#
 77 0.0 12.8 19.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.579 ppbv

RT: 16.07 min Scan# 4130

Delta R.T. -0.01 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

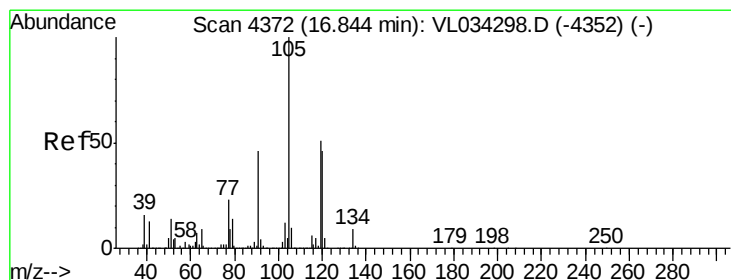
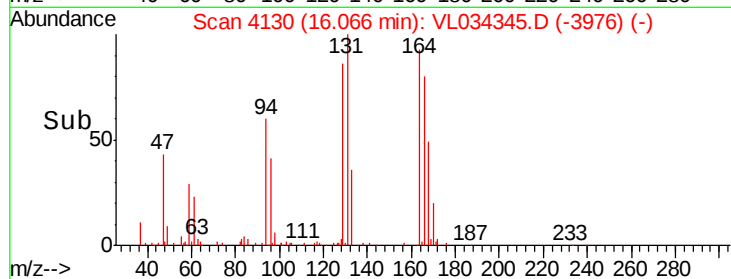
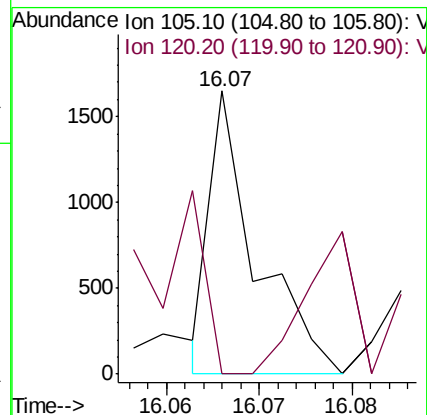
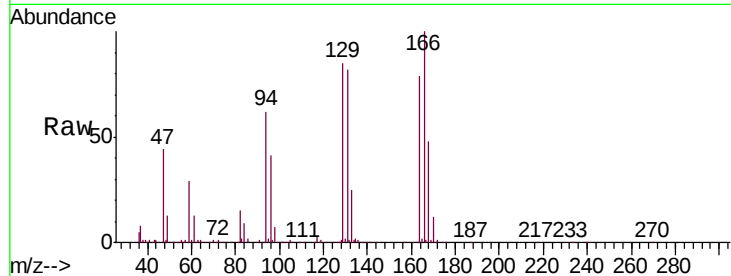
SV5

Tgt Ion:105 Resp: 574

Ion Ratio Lower Upper

105 100

120 0.0 35.2 52.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.182 ppbv

RT: 16.84 min Scan# 4371

Delta R.T. -0.00 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Tgt Ion:105 Resp: 188

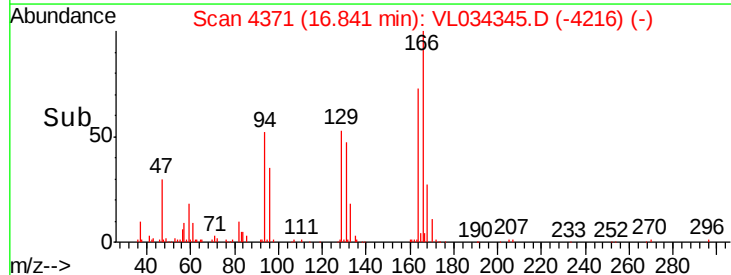
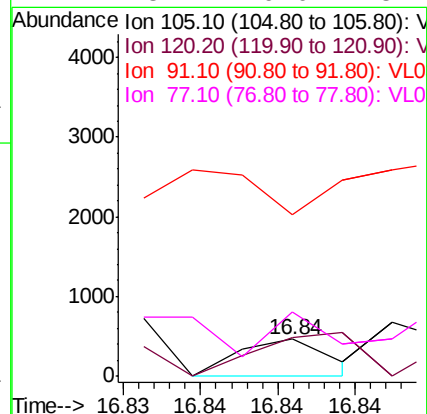
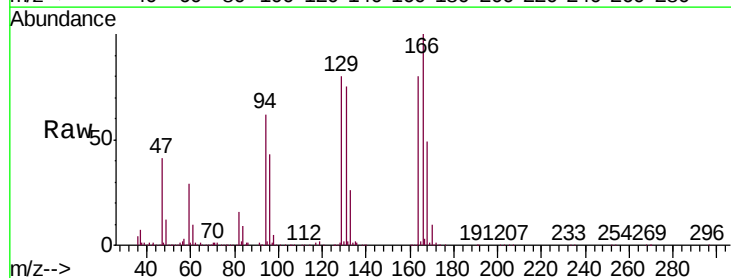
Ion Ratio Lower Upper

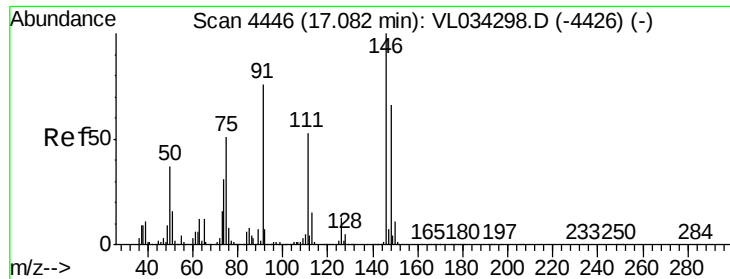
105 100

120 0.0 37.0 55.6#

91 0.0 38.2 57.2#

77 18.7 19.0 28.4#





#75

1,3-Dichlorobenzene

Concen: 0.190 ppbv

RT: 17.09 min Scan# 4448

Delta R.T. 0.01 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampled :

SV5

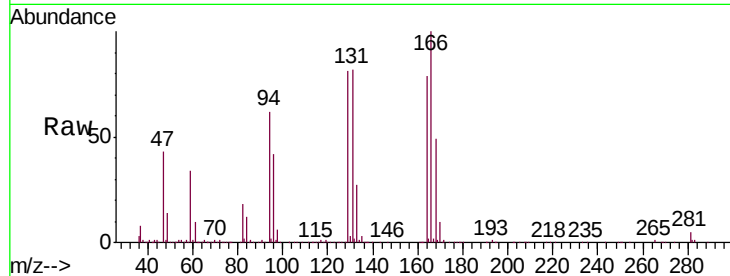
Tgt Ion:146 Resp: 118

Ion Ratio Lower Upper

146 100

111 400.8 24.5 73.5#

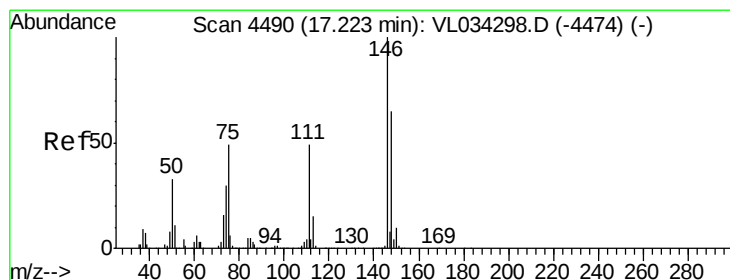
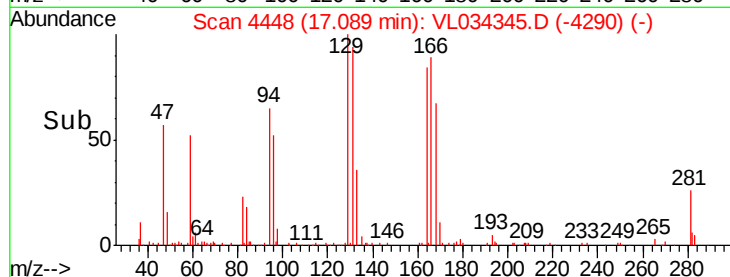
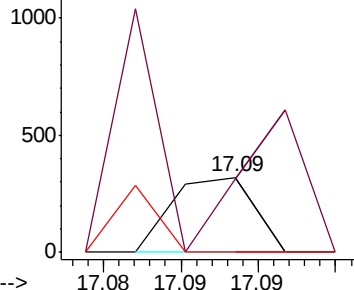
148 0.0 32.3 96.8#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.194 ppbv

RT: 17.09 min Scan# 4448

Delta R.T. -0.13 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

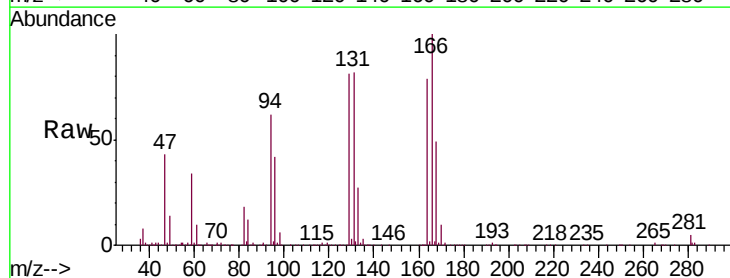
Tgt Ion:146 Resp: 118

Ion Ratio Lower Upper

146 100

111 724.6 23.9 71.7#

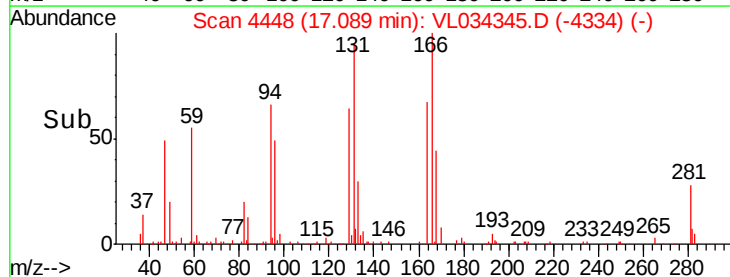
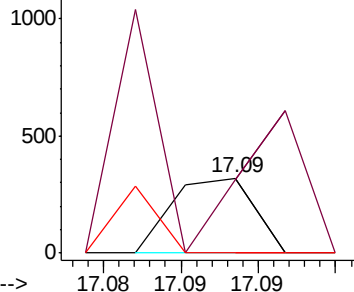
148 46.6 33.1 99.2

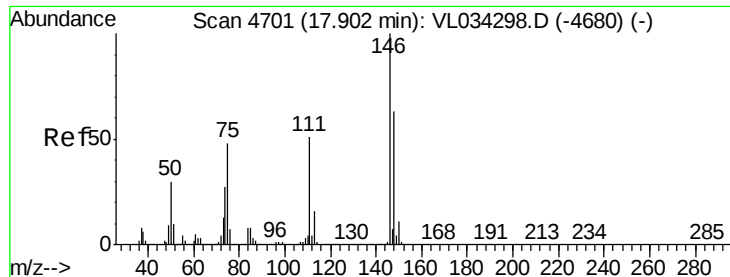


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.102 ppbv

RT: 17.91 min Scan# 4703

Delta R.T. 0.01 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

SV5

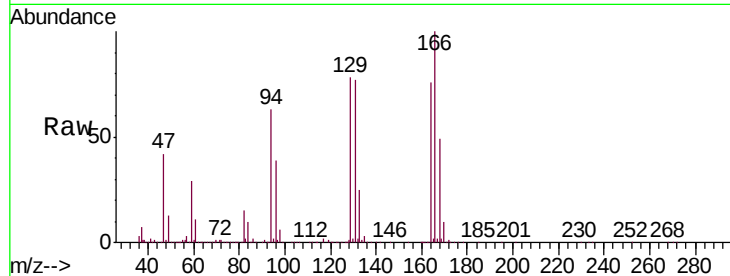
Tgt Ion:146 Resp: 62

Ion Ratio Lower Upper

146 100

111 1533.9 25.1 75.3#

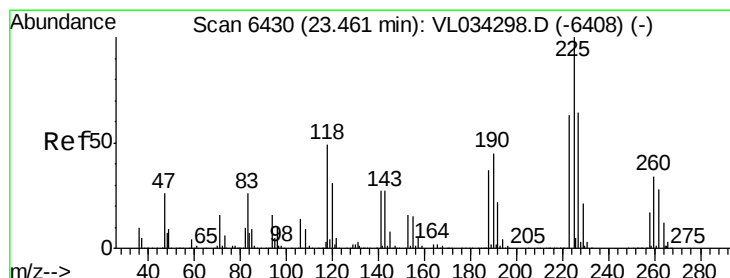
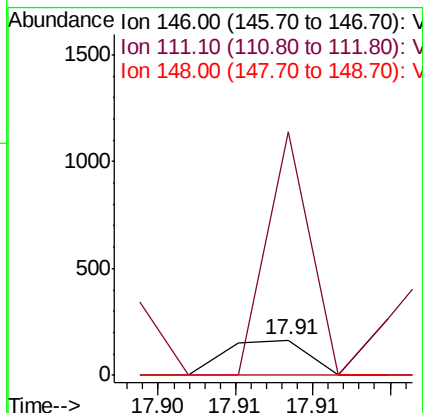
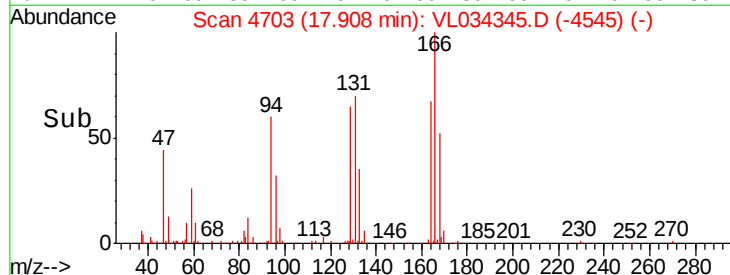
148 90.3 32.3 96.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.278 ppbv

RT: 23.46 min Scan# 6431

Delta R.T. 0.00 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

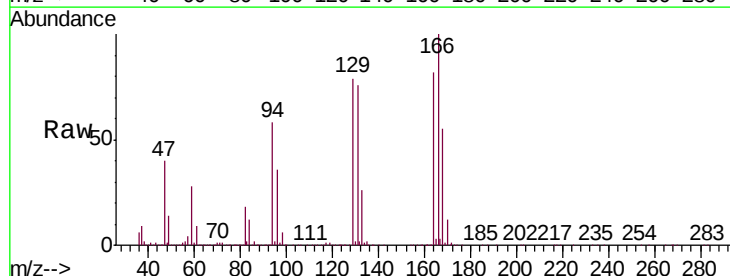
Tgt Ion:225 Resp: 140

Ion Ratio Lower Upper

225 100

223 75.0 50.8 76.2

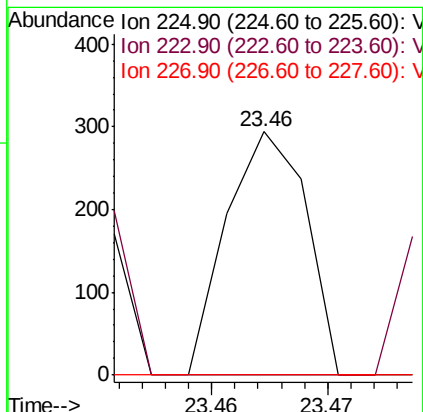
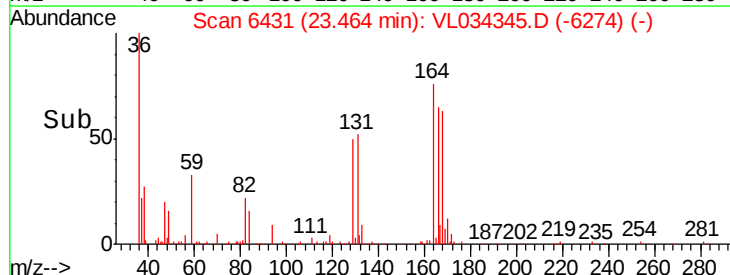
227 119.3 51.5 77.3#

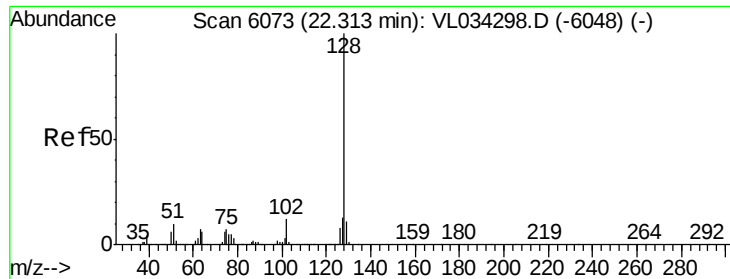


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 3.349 ppbv

RT: 22.30 min Scan# 6069

Delta R.T. -0.01 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

Instrument :

MSVOA_L

ClientSampleId :

SV5

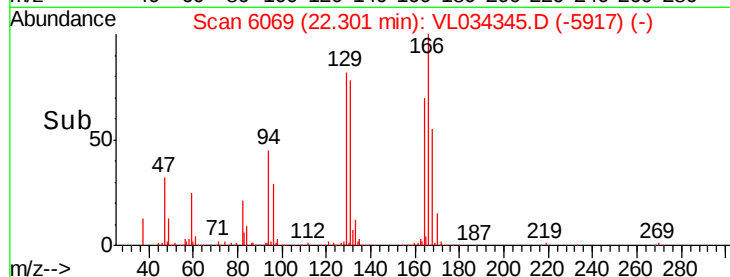
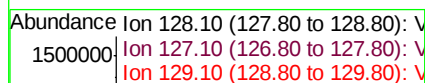
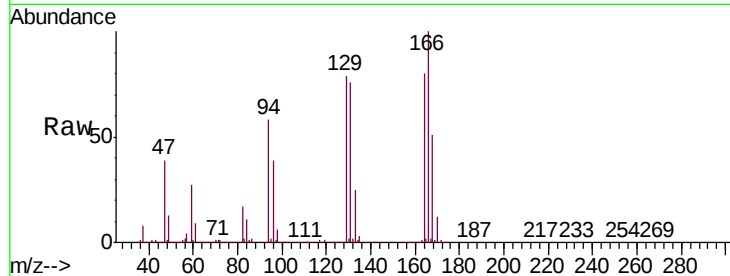
Tgt Ion:128 Resp: 2531

Ion Ratio Lower Upper

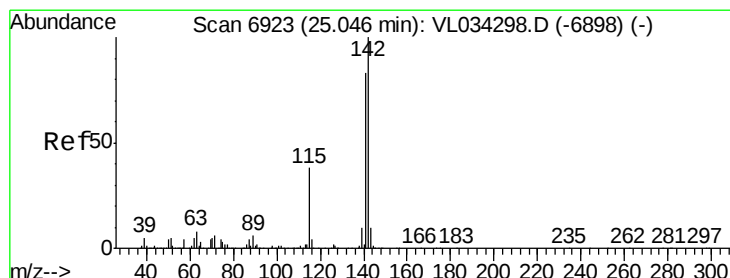
128 100

127 173.0 10.2 15.4#

129 1438.5 8.9 13.3#



Time-->



#80

Naphthalene, 2-methyl-

Concen: 16.307 ppbv

RT: 25.05 min Scan# 6923

Delta R.T. 0.00 min

Lab File: VL034345.D

Acq: 24 Oct 2019 14:20

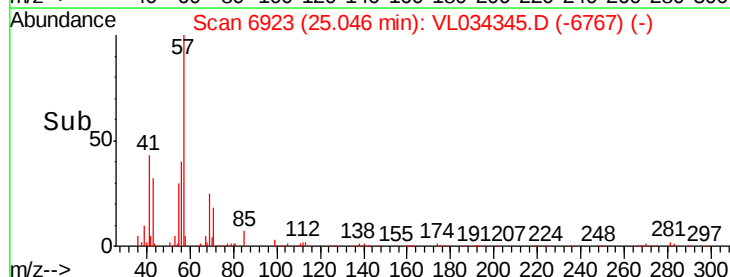
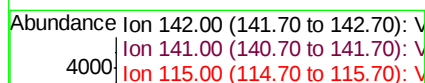
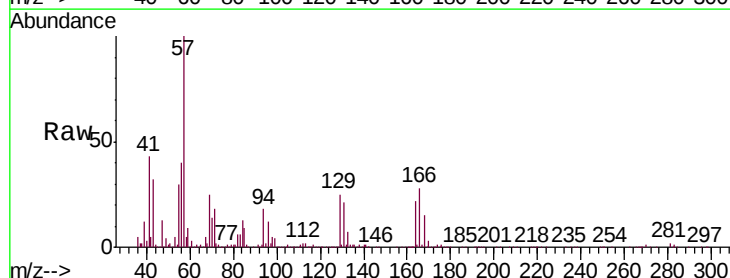
Tgt Ion:142 Resp: 3562

Ion Ratio Lower Upper

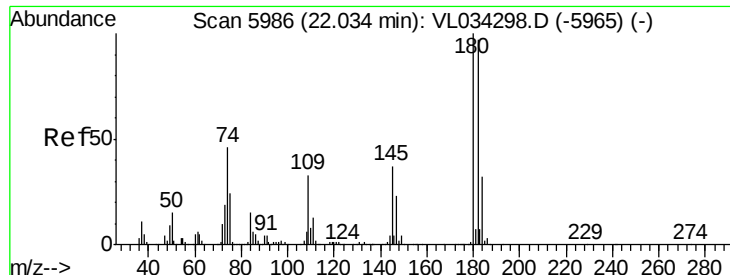
142 100

141 119.4 65.7 98.5#

115 0.0 30.9 46.3#



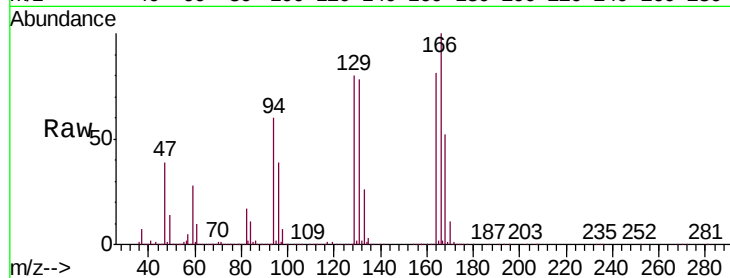
Time-->



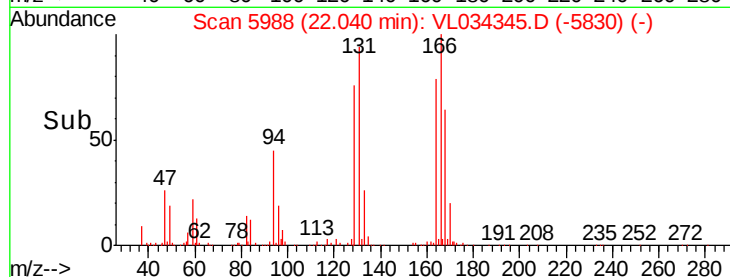
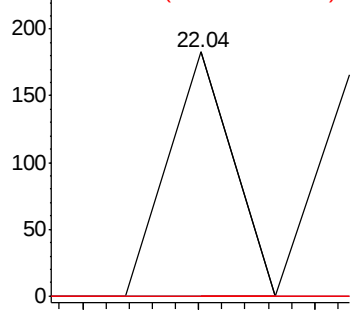
#81
 1,2,4-Trichlorobenzene
 Concen: 0.071 ppbv
 RT: 22.04 min Scan# 5988
 Delta R.T. 0.01 min
 Lab File: VL034345.D
 Acq: 24 Oct 2019 14:20

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.4	77.8	116.8
184	0.0	25.4	38.2



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



Time-->