

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071719\
 Data File : VL034042.D
 Acq On : 17 Jul 2019 21:53
 Operator : SY/AP
 Sample : K3804-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 18 04:40:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	868866	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	2513394	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.19	117	2534079	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2092389	9.68	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

Target Compounds

					Ovalue
3) Chlorodifluoromethane	2.99	51	557995	5.201	ppbv 92
4) Chloromethane	3.12	50	4575249	74.160	ppbv # 42
5) Vinyl Chloride	3.27	62	8296	0.120	ppbv # 54
7) Chloroethane	3.14	64	7541075	304.150	ppbv # 78
9) Propene	3.02	41	194252	4.922	ppbv # 73
10) Heptane	8.20	43	566755	5.735	ppbv 100
11) Trichlorofluoromethane	3.99	101	573311	2.844	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.53	101	7230	0.051	ppbv # 13
13) Ethanol	3.67	45	19033584	1552.286	ppbv 96
15) Acetone	3.88	43	10072778	68.953	ppbv 93
16) 1,3-Butadiene	3.32	39	108244	2.098	ppbv # 24
17) tert-Butyl alcohol	4.37	59	69801	0.599	ppbv # 73
19) Isopropyl Alcohol	4.05	45	4857308	49.535	ppbv # 1
20) Methylene Chloride	4.38	84	32829	0.515	ppbv 88
21) Allyl Chloride	4.41	41	53791	0.591	ppbv # 42
23) Vinyl Acetate	5.11	43	84731	0.581	ppbv # 1
25) Ethyl Acetate	5.75	43	763079	3.819	ppbv # 86
26) Hexane	5.75	57	866473	9.477	ppbv # 49
27) Carbon Disulfide	4.60	76	244378	1.572	ppbv # 94
29) Chloroform	5.82	83	398995	2.322	ppbv 99
30) Cyclohexane	7.21	84	157571	2.232	ppbv 94
34) 2-Butanone	5.30	43	370849	2.788	ppbv 98
36) Benzene	6.97	78	780493	3.969	ppbv 97
37) 1,2-Dichloroethane	6.37	62	5290	0.037	ppbv # 47
38) Trichloroethene	7.93	130	5898	0.067	ppbv # 22
39) 1,2-Dichloropropane	7.25	63	624225	8.536	ppbv # 24
40) 1,4-Dioxane	7.92	88	3190	0.094	ppbv # 1
41) Tetrahydrofuran	6.11	42	34346	0.526	ppbv # 30
42) Bromodichloromethane	7.88	83	22638	0.116	ppbv # 25
44) 2,2,4-Trimethylpentane	7.95	57	209634	0.618	ppbv # 11
50) 4-Methyl-2-Pentanone	8.83	43	13216	0.067	ppbv # 37
51) 2-Hexanone	10.22	43	12388	0.078	ppbv # 27
52) Tetrachloroethene	11.32	164	175547	2.074	ppbv 92
53) Toluene	9.90	91	1395988	6.201	ppbv 100
58) Ethyl Benzene	12.82	91	222175	0.729	ppbv 96
59) m/p-Xylene	13.07	91	665336	2.411	ppbv 99
60) o-Xylene	13.80	91	125838	0.456	ppbv # 35
61) Styrene	13.64	104	34207	0.187	ppbv # 29
62) Isopropylbenzene	14.78	105	138723	0.327	ppbv 97
64) n-propylbenzene	15.88	120	3692	0.034	ppbv 96
71) 2-Chlorotoluene	15.69	91	9564	0.031	ppbv 70

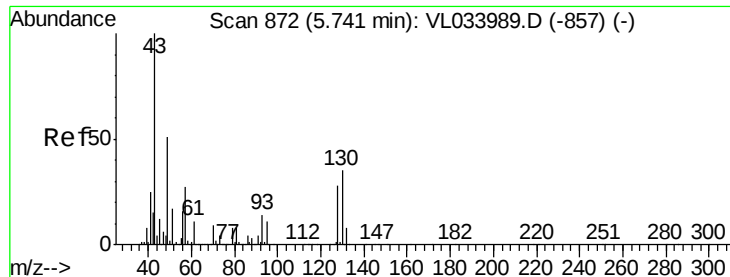
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071719\
Data File : VL034042.D
Acq On : 17 Jul 2019 21:53
Operator : SY/AP
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.95	105	30320	0.086	ppbv #	89
73) 1,3,5-Trimethylbenzene	16.11	105	15448	0.047	ppbv	88
74) 1,2,4-Trimethylbenzene	16.88	105	23413	0.064	ppbv #	76
80) Naphthalene,2-methyl-	25.07	142	5575	0.050	ppbv	93

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 869

Delta R.T. -0.01 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

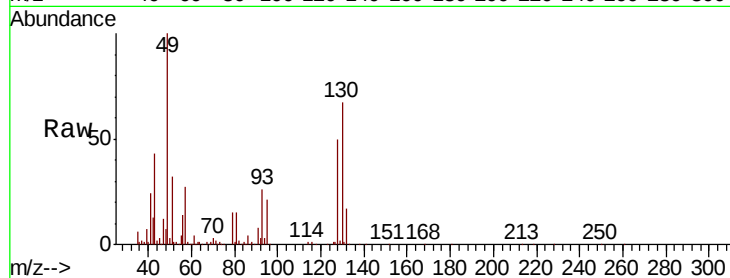
Tot Ion: 49 Resp: 868866

Ion Ratio Lower Upper

49 100

128 54.8 27.9 83.6

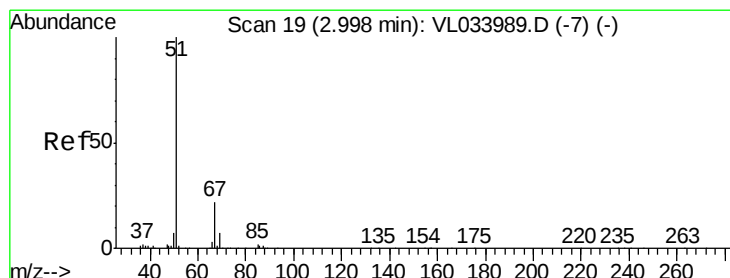
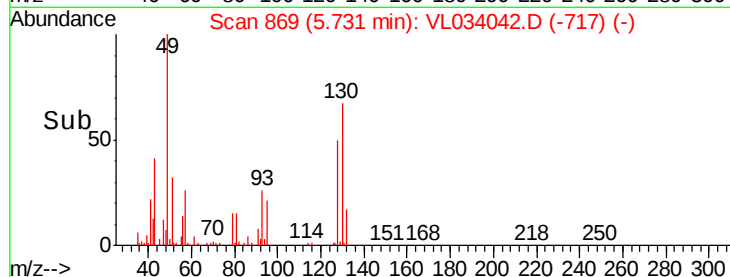
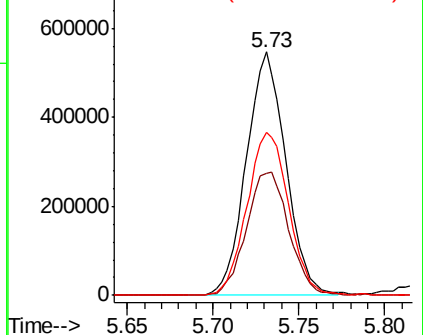
130 71.1 35.8 107.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 5.201 ppbv

RT: 2.99 min Scan# 17

Delta R.T. -0.01 min

Lab File: VL034042.D

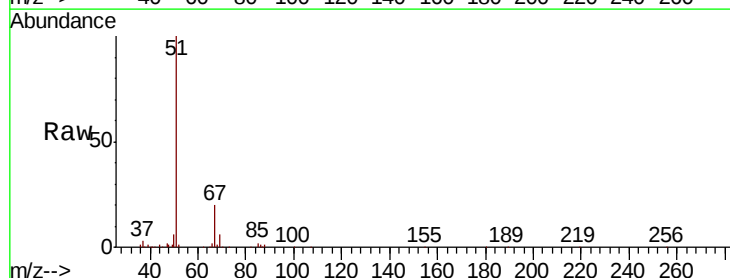
Acq: 17 Jul 2019 21:53

Tgt Ion: 51 Resp: 557995

Ion Ratio Lower Upper

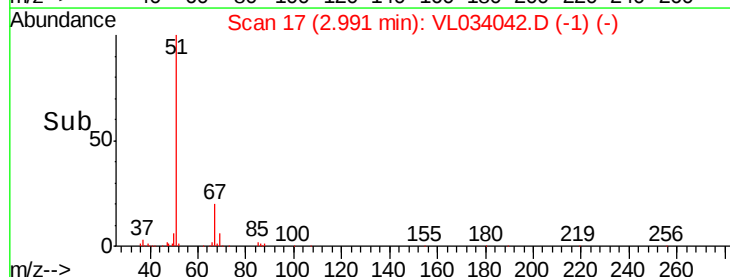
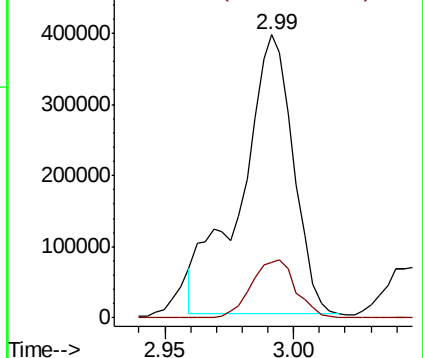
51 100

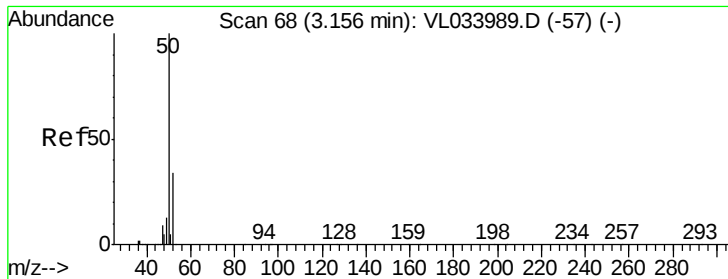
67 17.6 17.3 25.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 74.160 ppbv

RT: 3.12 min Scan# 58

Delta R.T. -0.03 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Instrument :

MSVOA_L

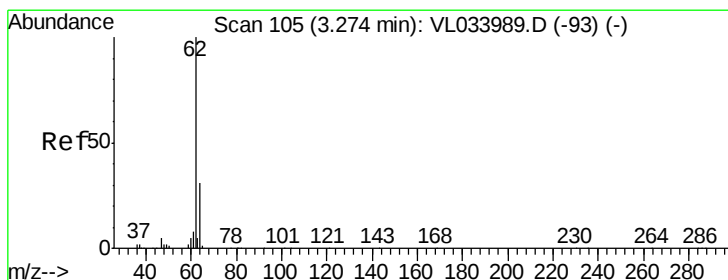
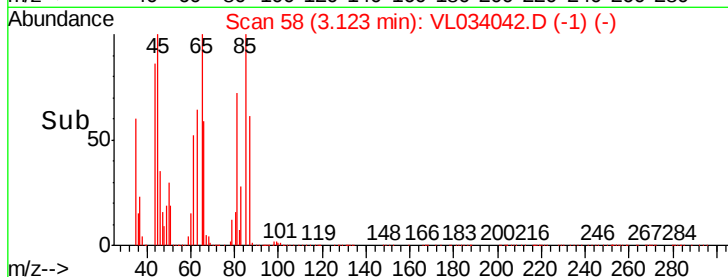
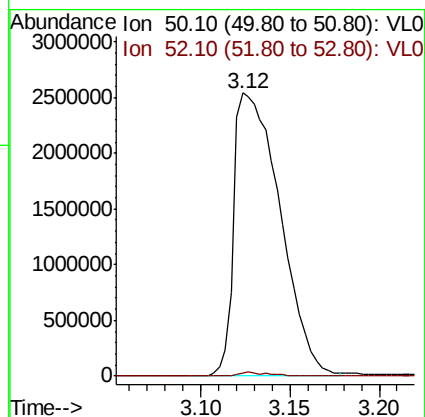
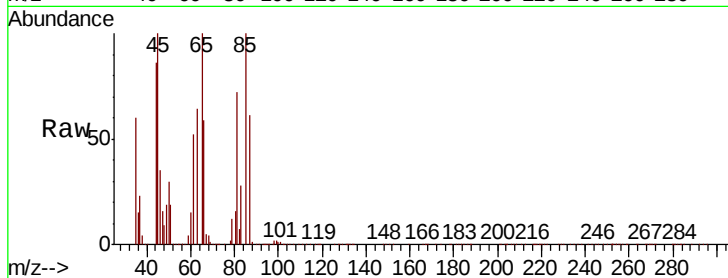
ClientSampleId :

Tot Ion: 50 Resp: 4575249

Ion Ratio Lower Upper

50 100

52 0.9 27.4 41.0#



#5

Vinyl Chloride

Concen: 0.120 ppbv

RT: 3.27 min Scan# 104

Delta R.T. -0.00 min

Lab File: VL034042.D

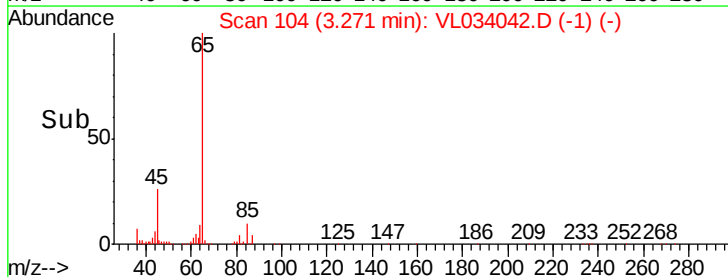
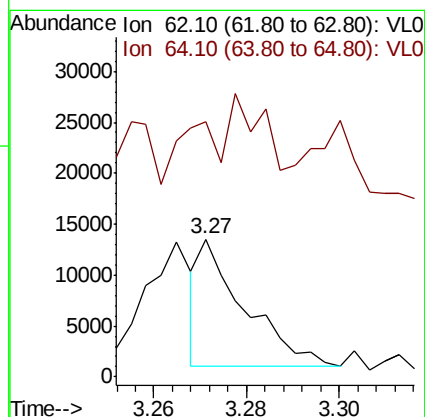
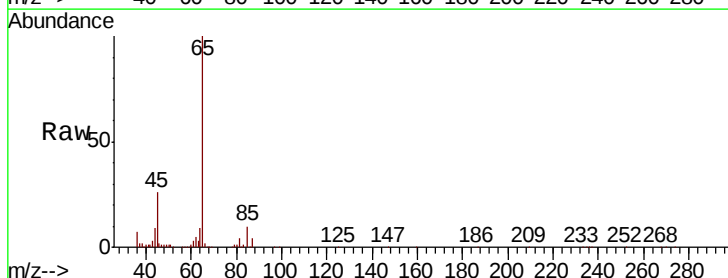
Acq: 17 Jul 2019 21:53

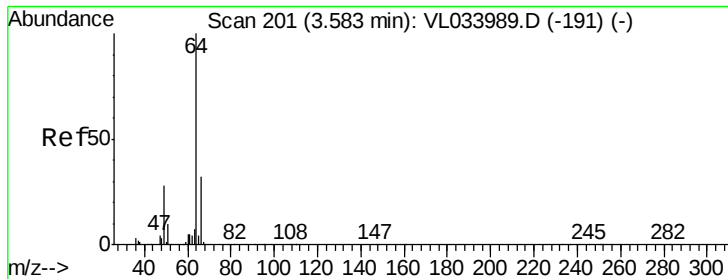
Tgt Ion: 62 Resp: 8296

Ion Ratio Lower Upper

62 100

64 5.3 24.4 36.6#





#7

Chloroethane

Concen: 304.150 ppbv

RT: 3.14 min Scan# 63

Delta R.T. -0.44 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Instrument :

MSVOA_L

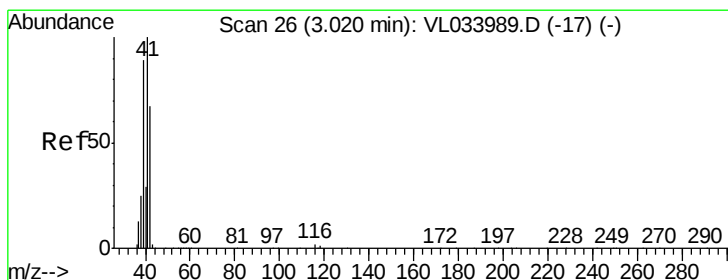
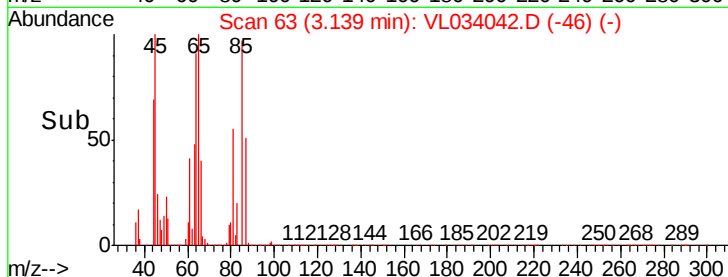
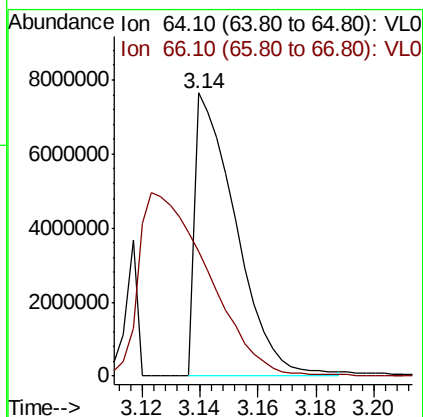
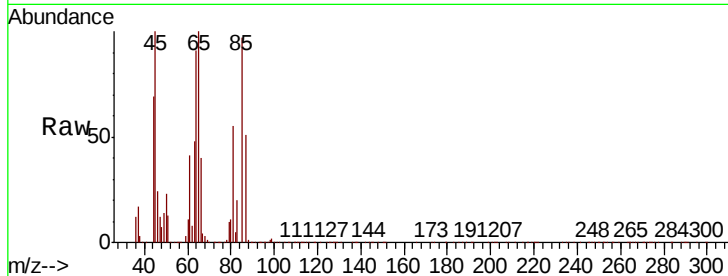
ClientSampleId :

Tot Ion: 64 Resp: 7541075

Ion Ratio Lower Upper

64 100

66 44.0 25.3 37.9#



#9

Propene

Concen: 4.922 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL034042.D

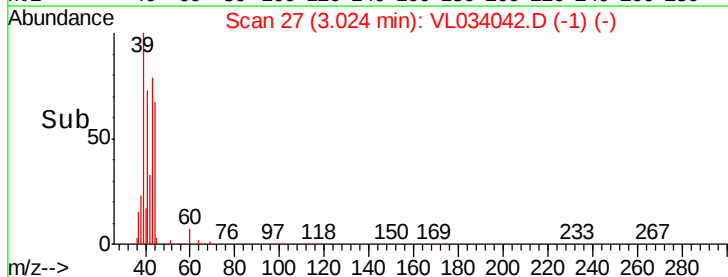
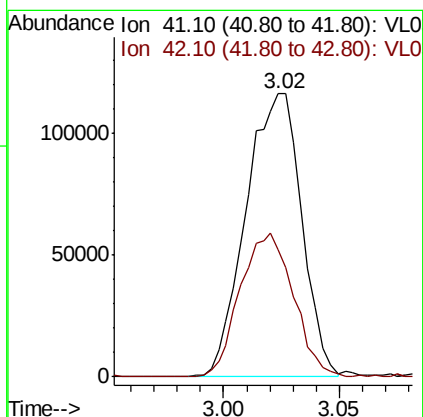
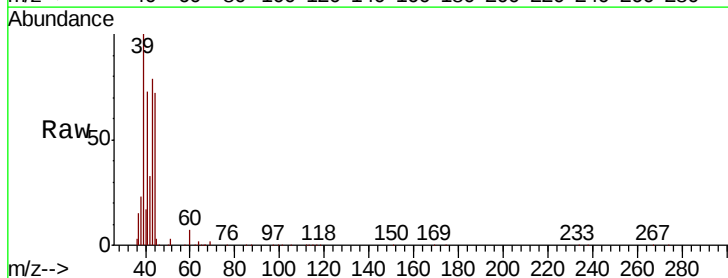
Acq: 17 Jul 2019 21:53

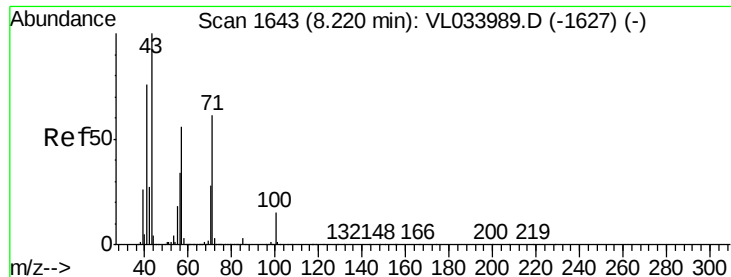
Tgt Ion: 41 Resp: 194252

Ion Ratio Lower Upper

41 100

42 48.8 57.1 85.7#





#10

Heptane

Concen: 5.735 ppbv

RT: 8.20 min Scan# 1637

Delta R.T. -0.02 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Instrument :

MSVOA_L

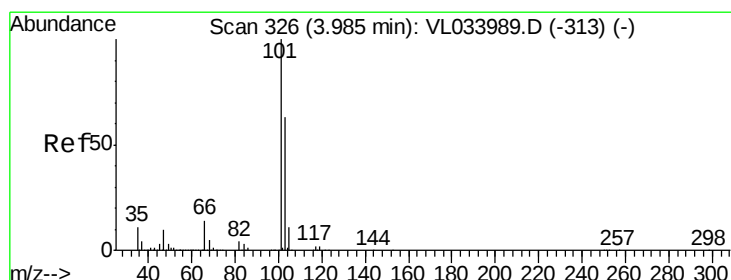
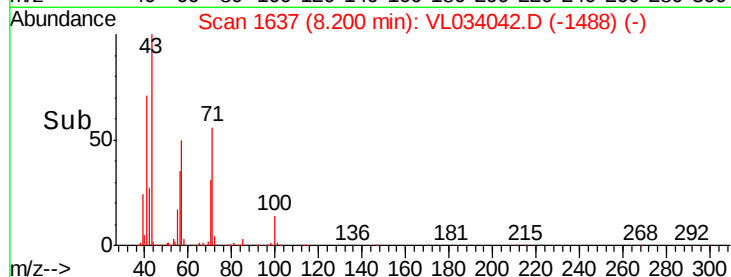
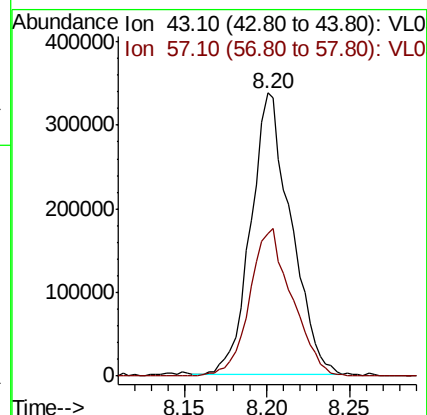
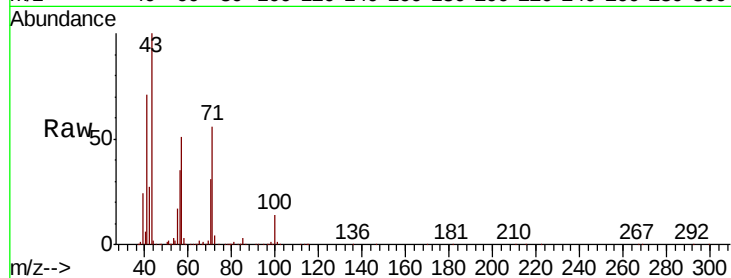
ClientSampleId :

Tot Ion: 43 Resp: 566755

Ion Ratio Lower Upper

43 100

57 55.7 44.6 66.8



#11

Trichlorofluoromethane

Concen: 2.844 ppbv

RT: 3.99 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL034042.D

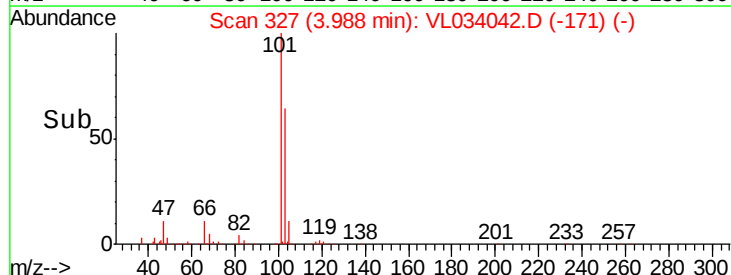
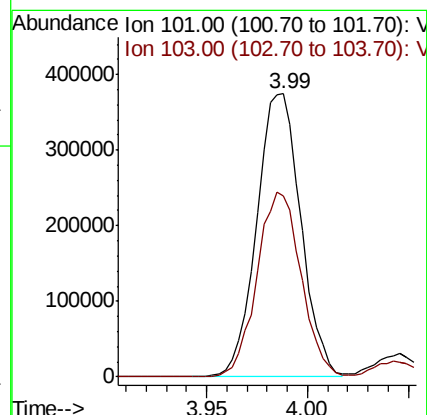
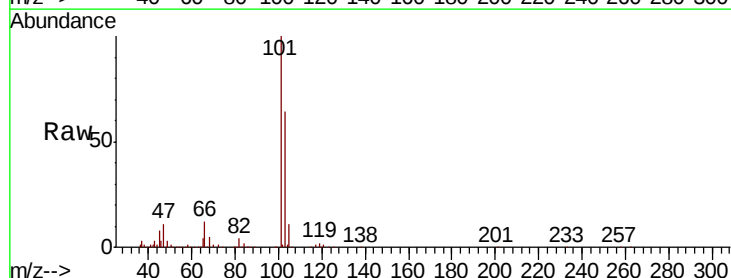
Acq: 17 Jul 2019 21:53

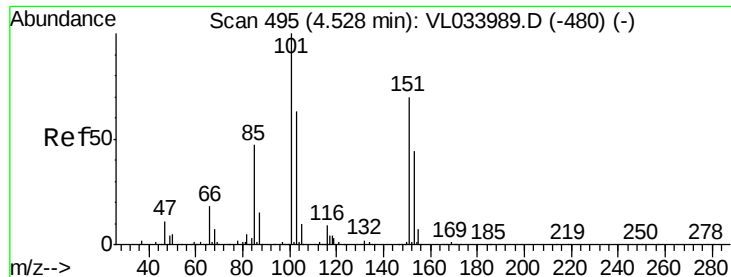
Tgt Ion: 101 Resp: 573311

Ion Ratio Lower Upper

101 100

103 64.1 50.8 76.2





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.051 ppbv

RT: 4.53 min Scan# 494

Delta R.T. -0.00 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Instrument :

MSVOA_L

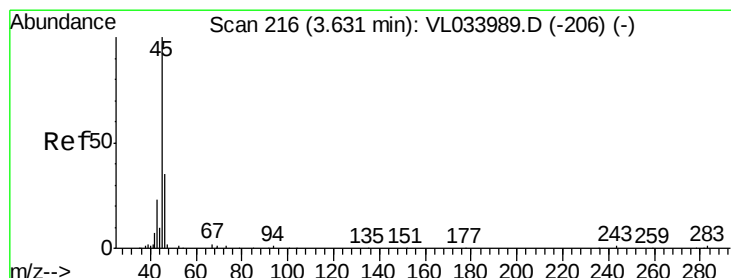
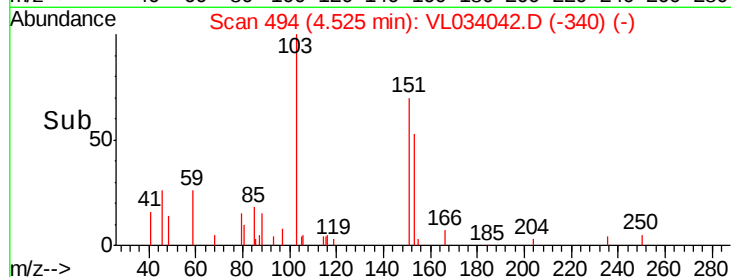
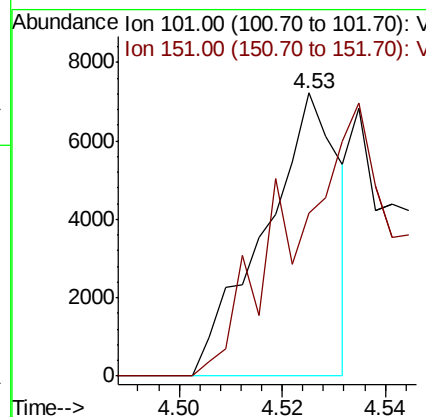
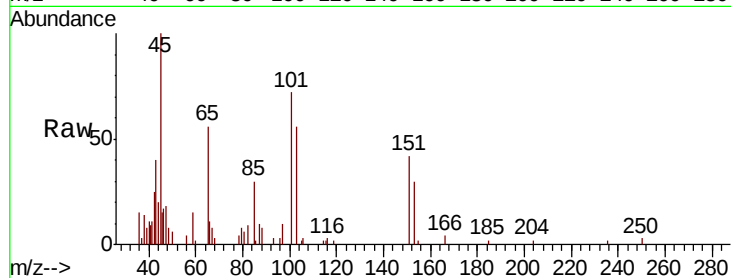
ClientSampleId :

Tot Ion:101 Resp: 7230

Ion Ratio Lower Upper

101 100

151 0.0 59.0 88.4#



#13

Ethanol

Concen: 1552.286 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.04 min

Lab File: VL034042.D

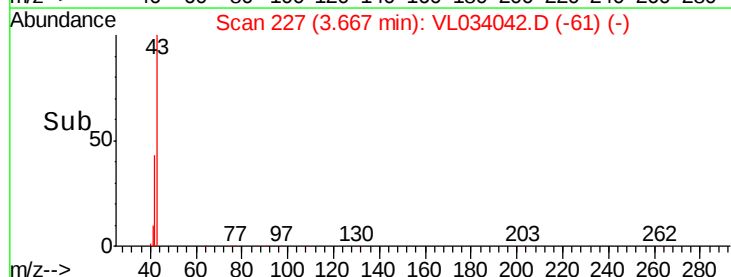
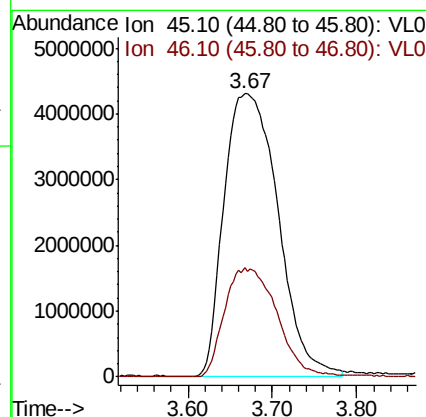
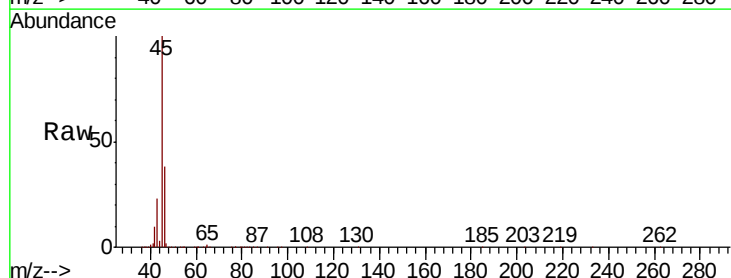
Acq: 17 Jul 2019 21:53

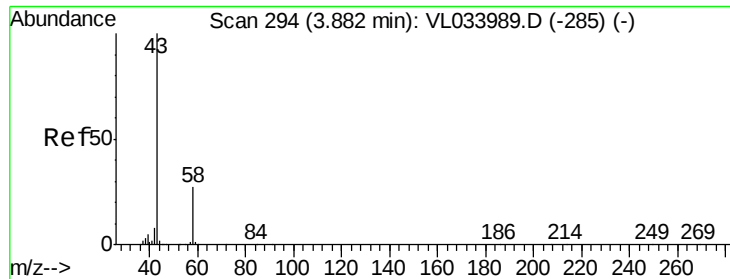
Tgt Ion: 45 Resp:19033584

Ion Ratio Lower Upper

45 100

46 37.7 16.2 64.6





#15

Acetone

Concen: 68.953 ppbv

RT: 3.88 min Scan# 292

Delta R.T. -0.01 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

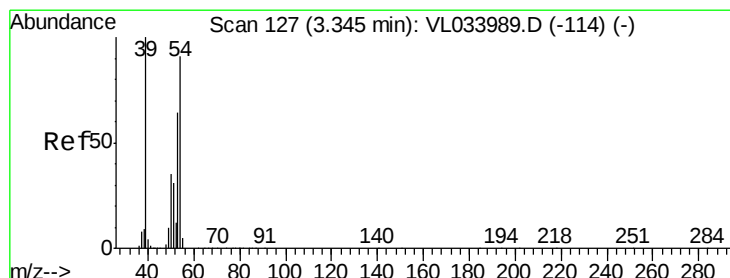
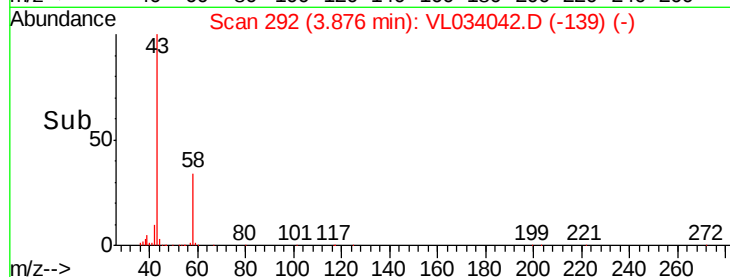
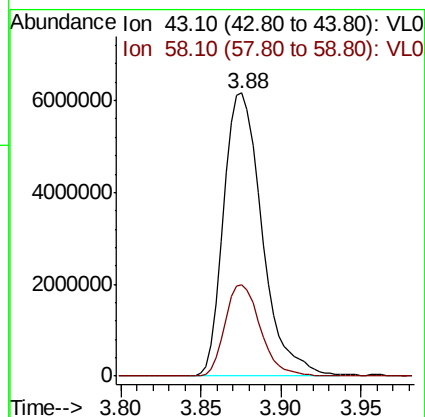
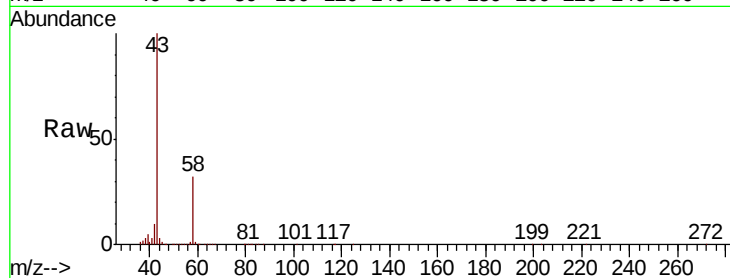
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp:10072778

Ion Ratio Lower Upper

43 100

58 30.2 21.4 32.0



#16

1,3-Butadiene

Concen: 2.098 ppbv

RT: 3.32 min Scan# 119

Delta R.T. -0.03 min

Lab File: VL034042.D

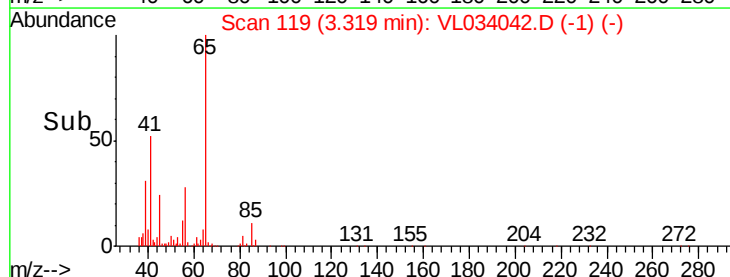
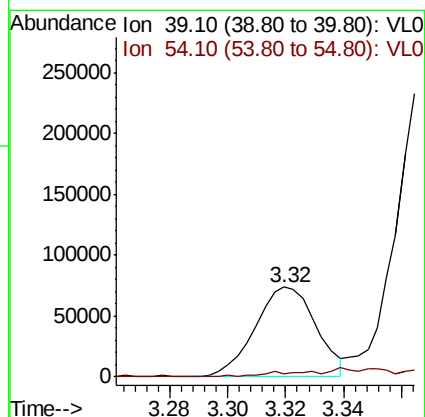
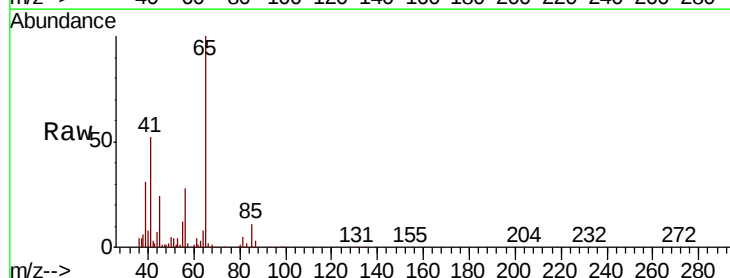
Acq: 17 Jul 2019 21:53

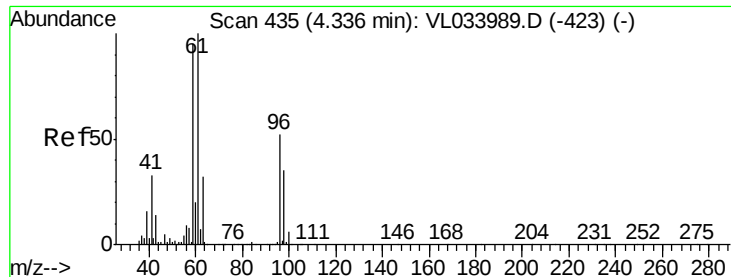
Tgt Ion: 39 Resp: 108244

Ion Ratio Lower Upper

39 100

54 18.2 71.4 107.2#



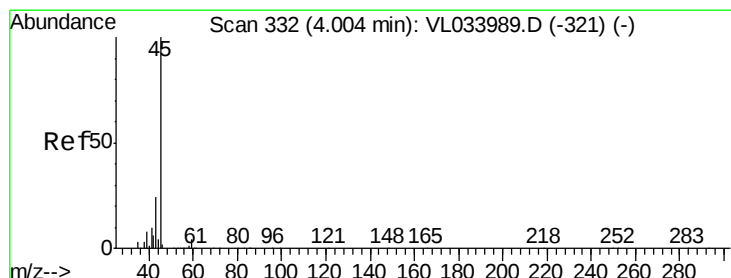
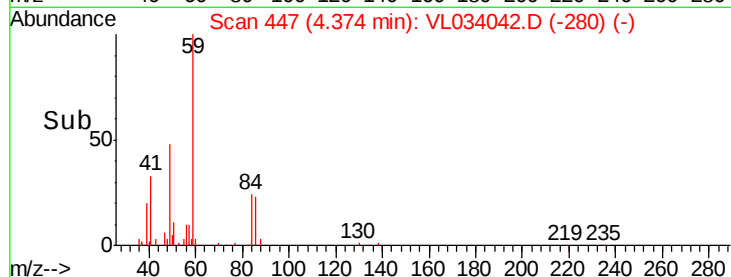
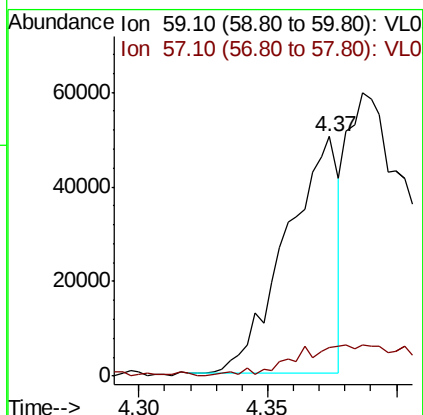
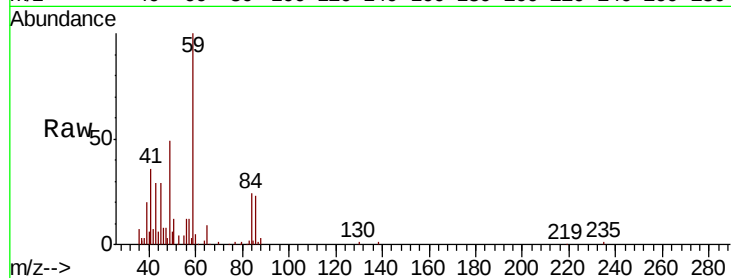


#17

tert-Butyl alcohol
Concen: 0.599 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.04 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :

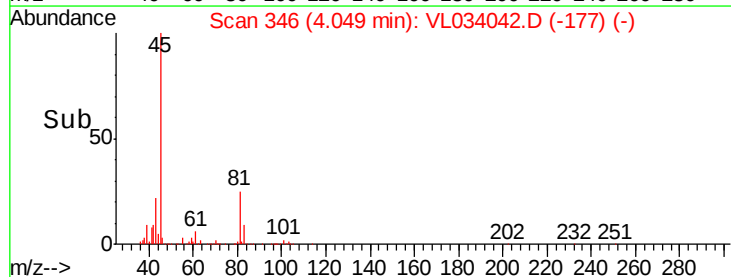
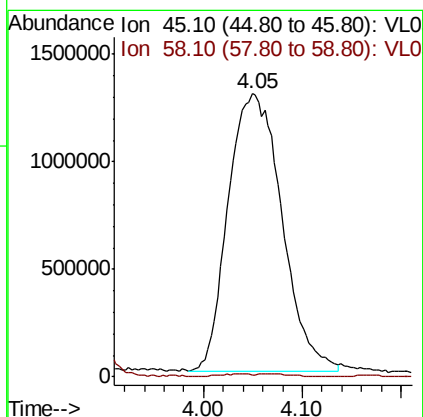
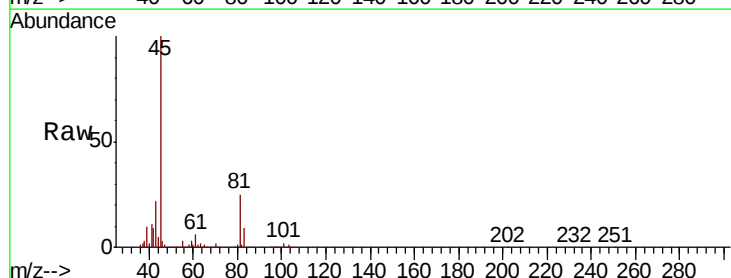
Tot Ion: 59 Resp: 69801
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

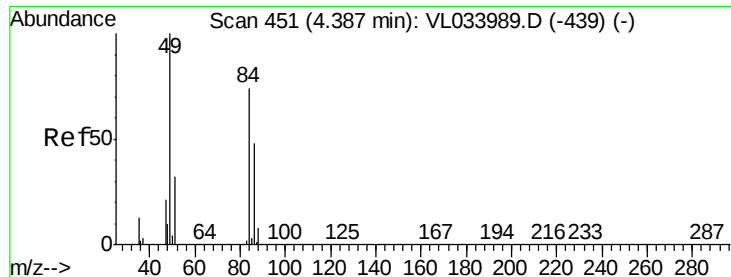


#19

Isopropyl Alcohol
Concen: 49.535 ppbv
RT: 4.05 min Scan# 346
Delta R.T. 0.04 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Tgt Ion: 45 Resp: 4857308
Ion Ratio Lower Upper
45 100
58 62.4 1.7 2.5#

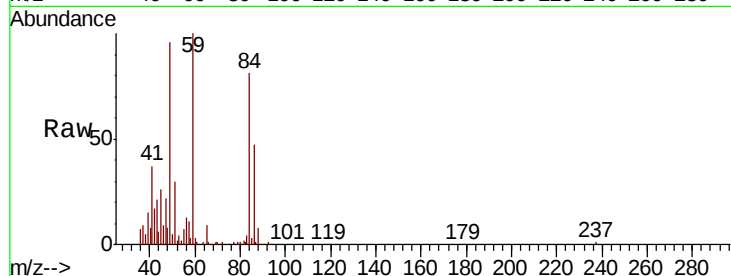




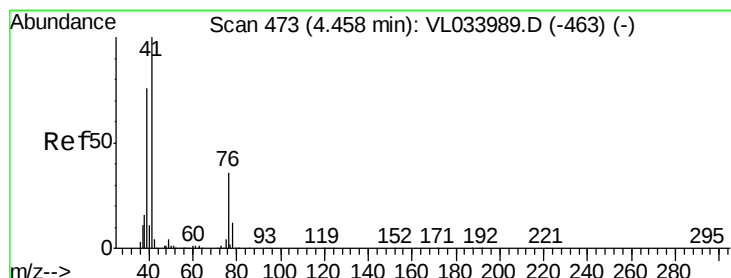
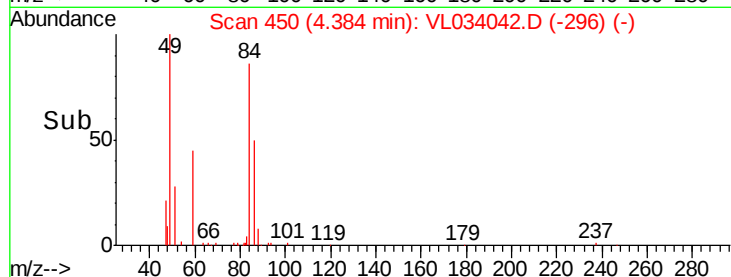
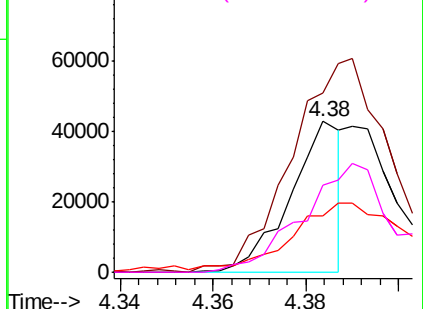
#20
Methylene Chloride
Concen: 0.515 ppbv
RT: 4.38 min Scan# 450
Delta R.T. -0.00 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	32829
Ion	Ratio	Lower	Upper
84	100		
49	119.1	107.6	161.4
51	36.2	35.0	52.6
86	58.2	52.1	78.1

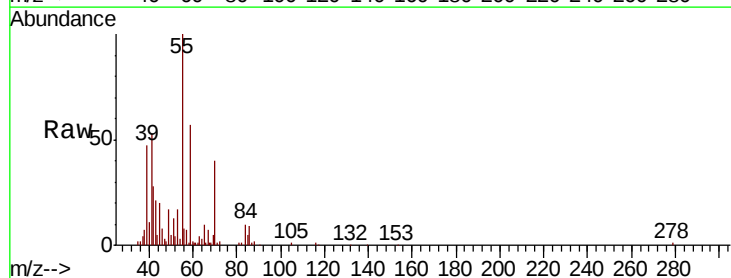


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

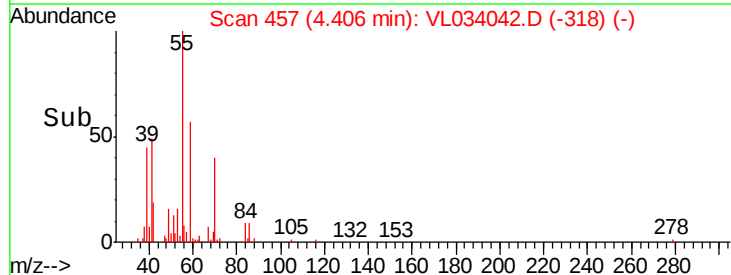
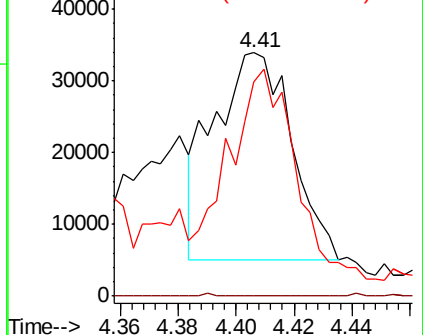


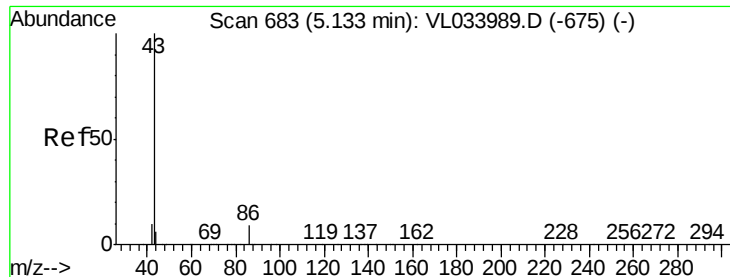
#21
Allyl Chloride
Concen: 0.591 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.05 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Tgt Ion:	41	Resp:	53791
Ion	Ratio	Lower	Upper
41	100		
76	0.0	26.8	40.2#
39	128.8	63.1	94.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.581 ppbv

RT: 5.11 min Scan# 677

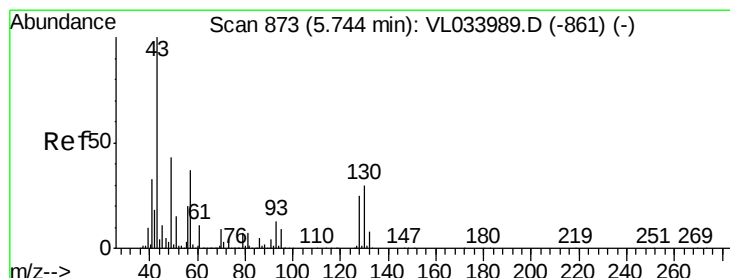
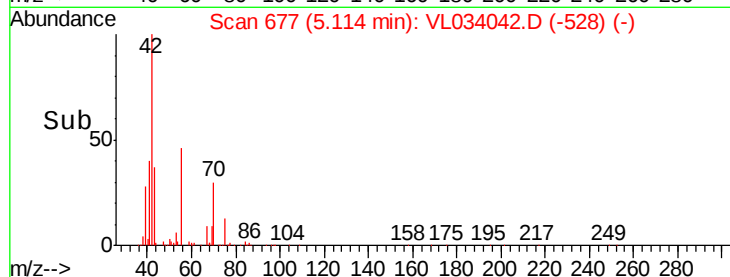
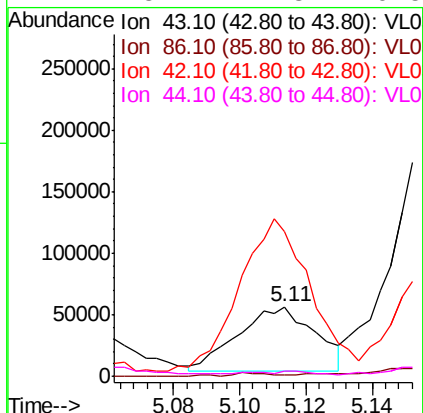
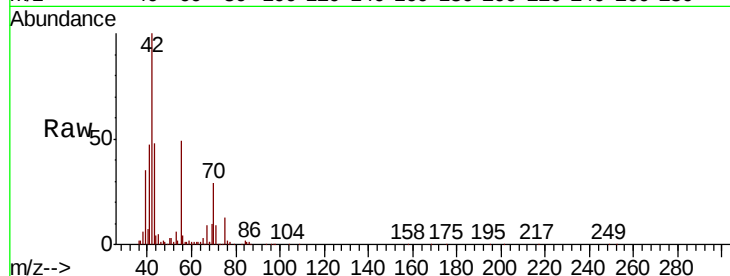
Delta R.T. -0.02 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	84731
Ion	Ratio	Lower	Upper
43	100		
86	2.5	6.6	9.8#
42	229.1	8.3	12.5#
44	5.7	4.3	6.5



#25

Ethyl Acetate

Concen: 3.819 ppbv

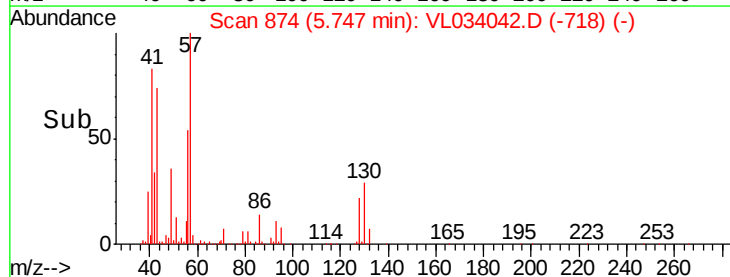
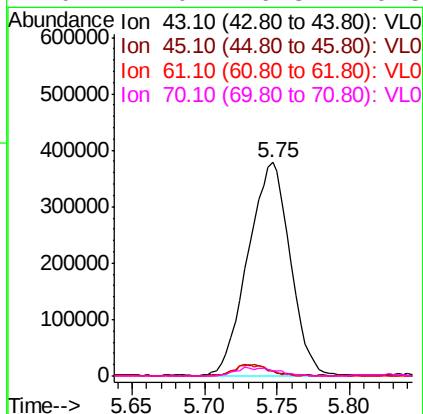
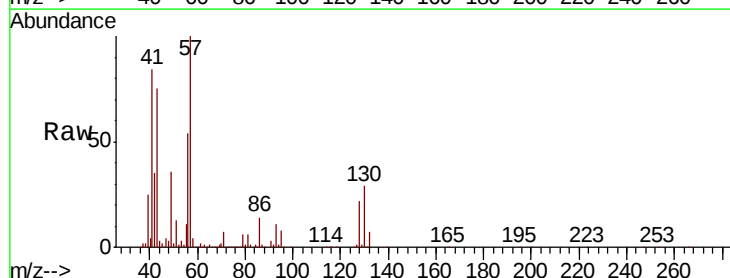
RT: 5.75 min Scan# 874

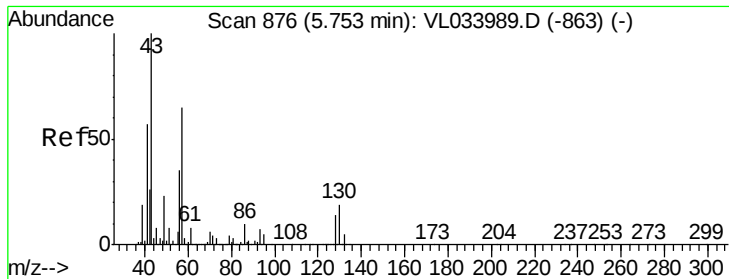
Delta R.T. 0.00 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Tgt Ion:	43	Resp:	763079
Ion	Ratio	Lower	Upper
43	100		
45	4.5	8.1	12.1#
61	4.6	8.1	12.1#
70	4.0	6.3	9.5#

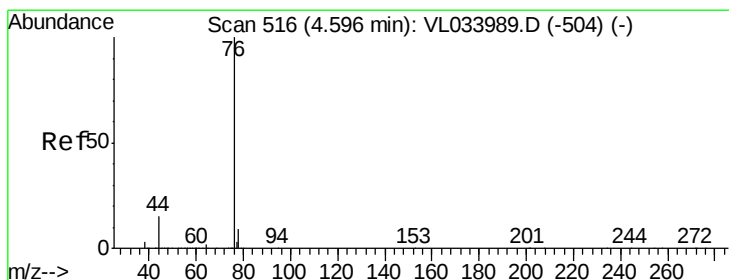
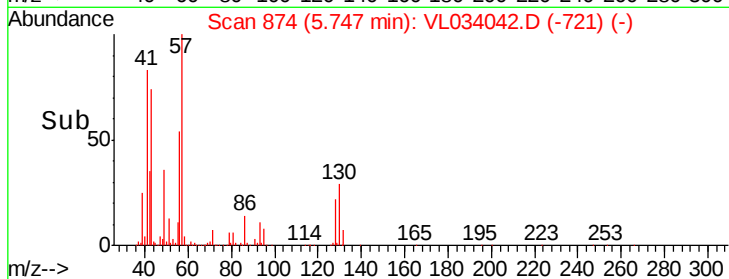
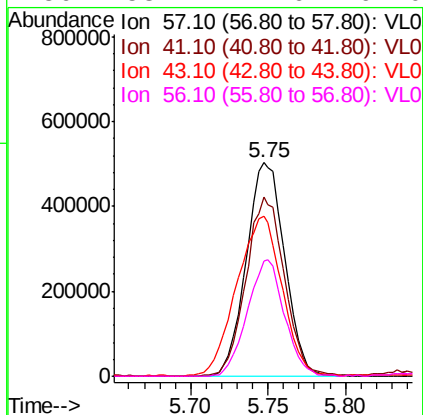
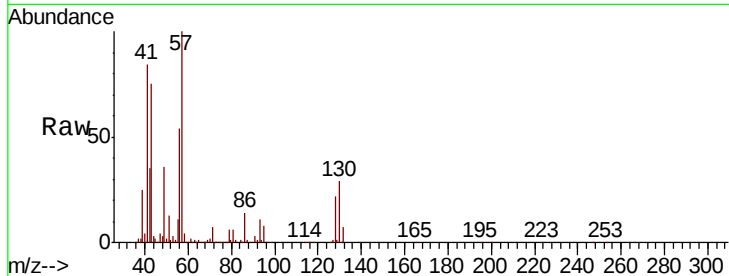




#26
Hexane
Concen: 9.477 ppbv
RT: 5.75 min Scan# 874
Delta R.T. -0.01 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

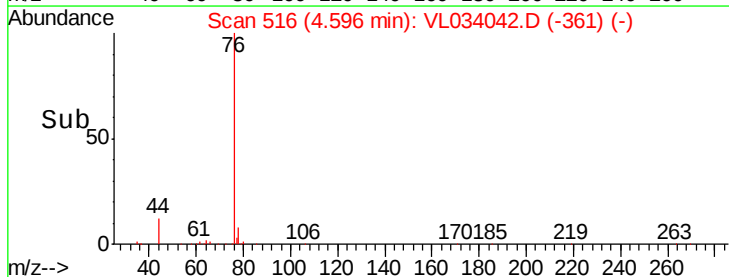
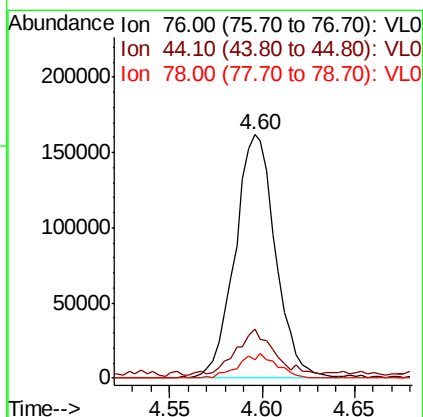
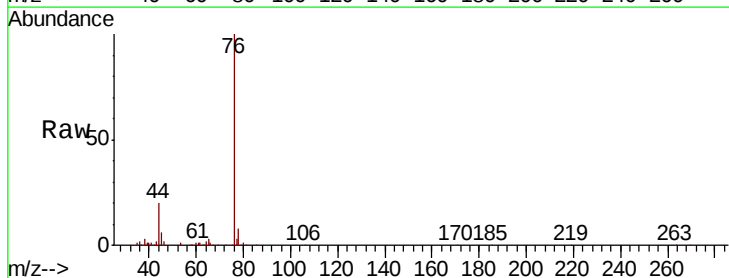
Instrument :
MSVOA_L
ClientSampleId :

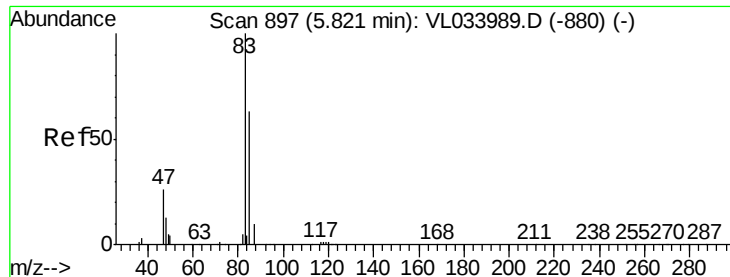
Tot Ion:	57	Resp:	866473
Ion	Ratio	Lower	Upper
57	100		
41	84.5	70.6	105.8
43	88.3	177.6	266.4#
56	53.1	42.6	64.0



#27
Carbon Disulfide
Concen: 1.572 ppbv
RT: 4.60 min Scan# 516
Delta R.T. -0.00 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Tgt Ion:	76	Resp:	244378
Ion	Ratio	Lower	Upper
76	100		
44	19.0	12.6	18.8#
78	9.7	7.2	10.8





#29

Chloroform

Concen: 2.322 ppbv

RT: 5.82 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Instrument :

MSVOA_L

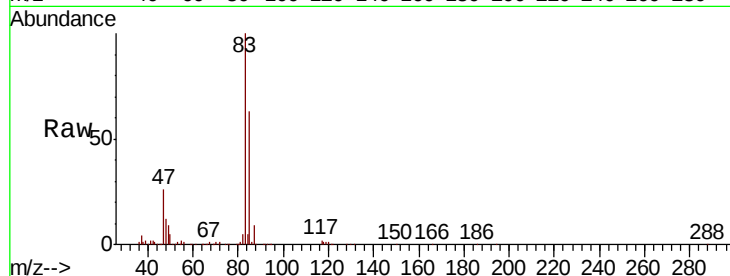
ClientSampleId :

Tot Ion: 83 Resp: 398995

Ion Ratio Lower Upper

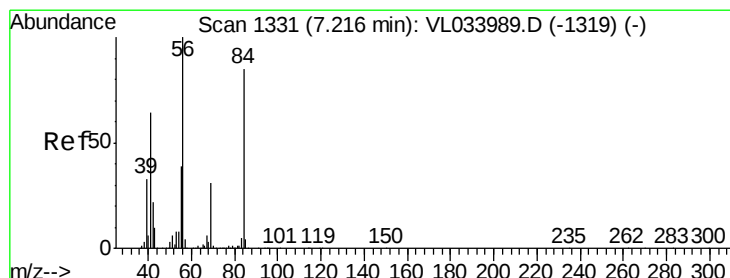
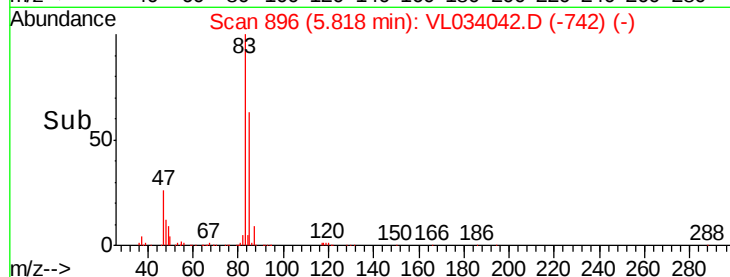
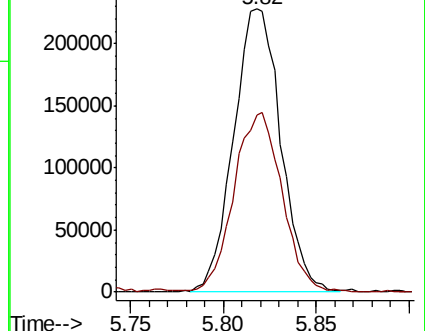
83 100

85 62.5 50.6 75.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 2.232 ppbv

RT: 7.21 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

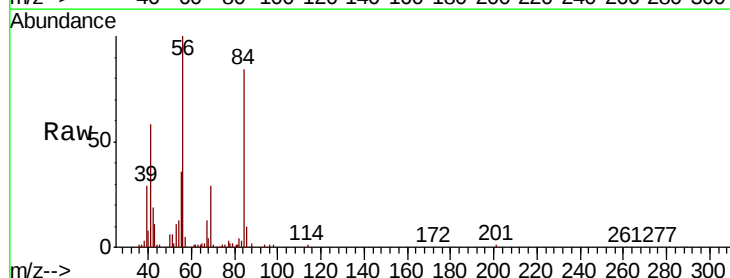
Tgt Ion: 84 Resp: 157571

Ion Ratio Lower Upper

84 100

56 120.7 103.7 155.5

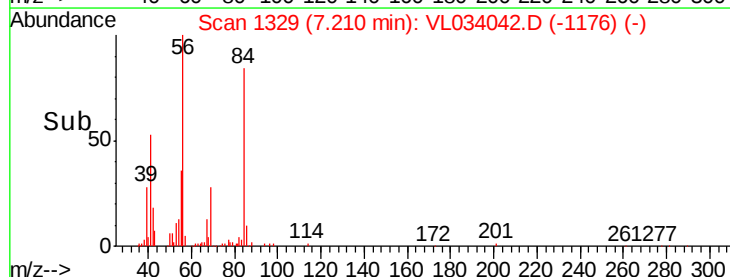
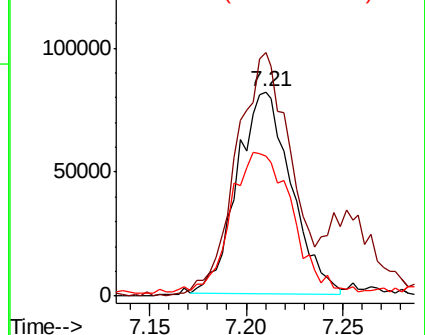
41 81.1 62.6 94.0

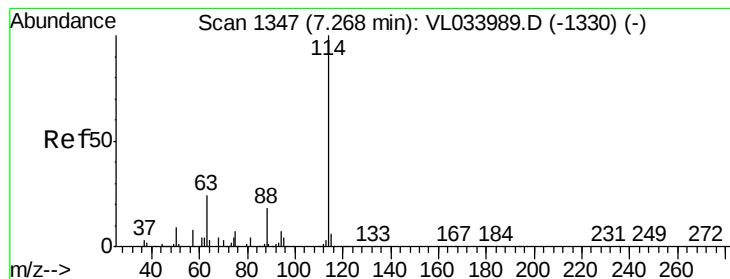


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.25 min Scan# 1343

Delta R.T. -0.01 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

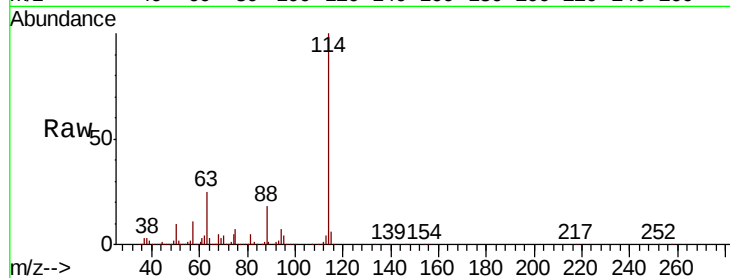
Tot Ion:114 Resp: 2513394

Ion Ratio Lower Upper

114 100

63 25.2 20.2 30.2

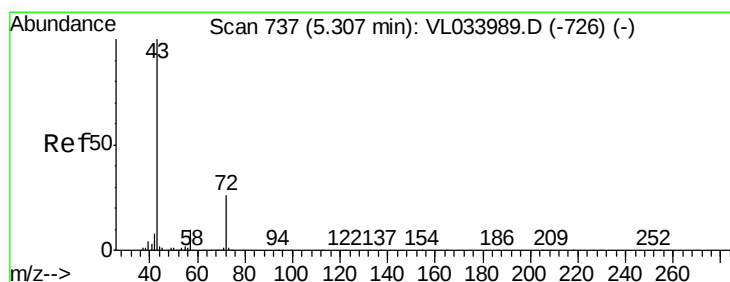
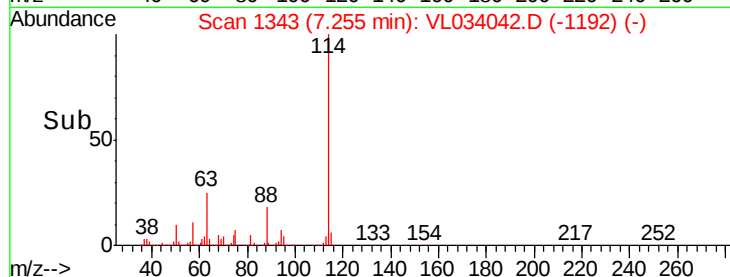
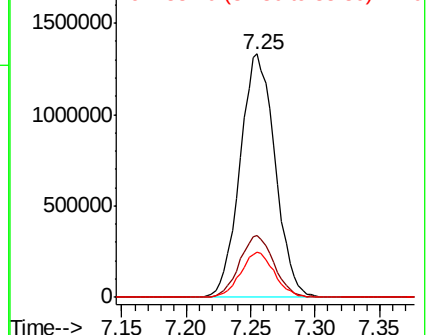
88 17.9 14.1 21.1



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 2.788 ppbv

RT: 5.30 min Scan# 735

Delta R.T. -0.01 min

Lab File: VL034042.D

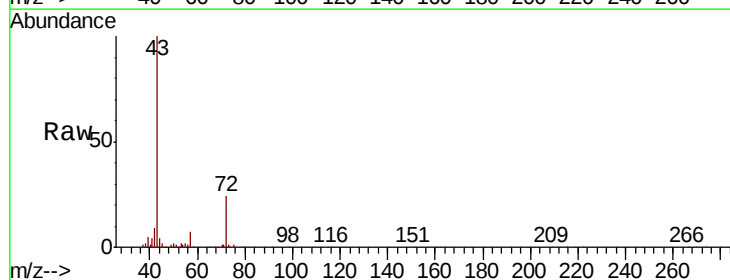
Acq: 17 Jul 2019 21:53

Tgt Ion: 43 Resp: 370849

Ion Ratio Lower Upper

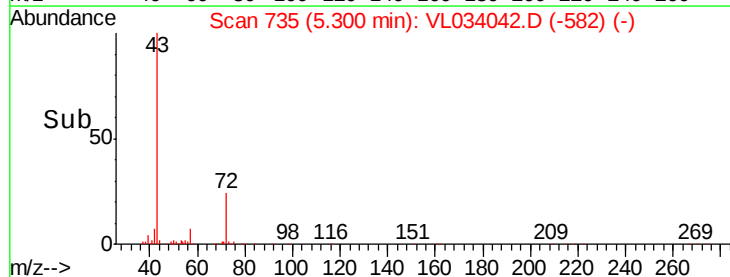
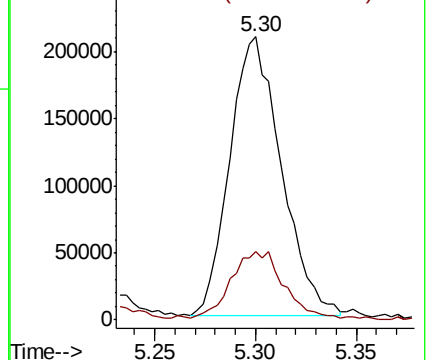
43 100

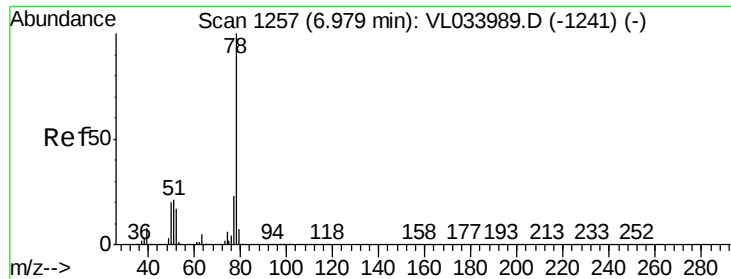
72 25.7 19.9 29.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

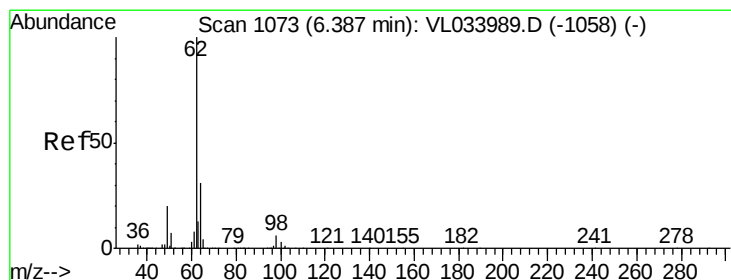
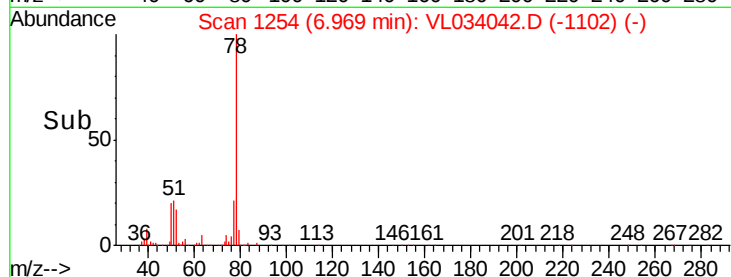
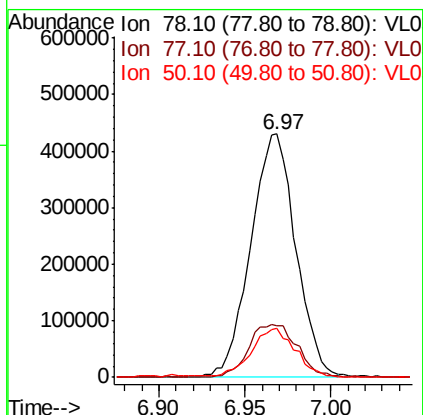
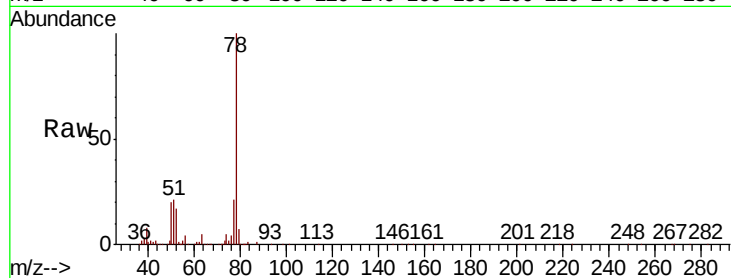




#36
Benzene
Concen: 3.969 ppbv
RT: 6.97 min Scan# 1254
Delta R.T. -0.01 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

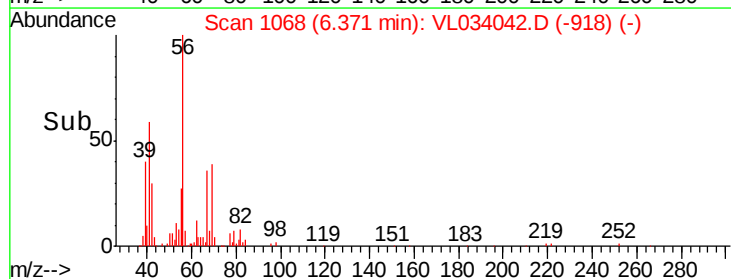
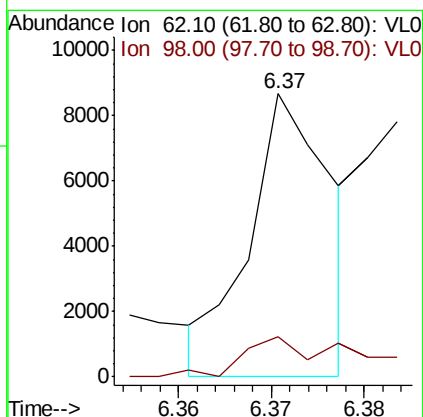
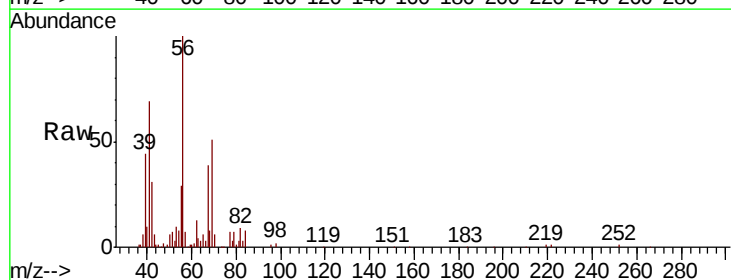
Instrument :
MSVOA_L
ClientSampleId :

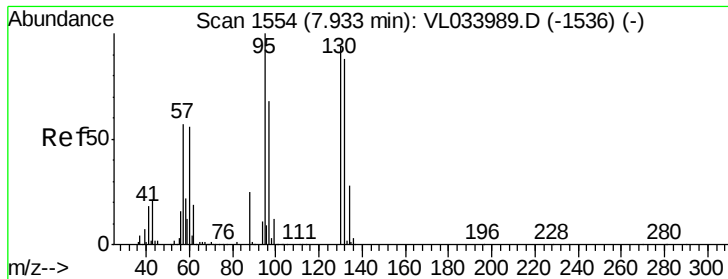
Tot Ion	Ratio	Lower	Upper
78	100		
77	21.1	18.7	28.1
50	19.9	16.2	24.2



#37
1,2-Dichloroethane
Concen: 0.037 ppbv
RT: 6.37 min Scan# 1068
Delta R.T. -0.02 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Tgt Ion	Ratio	Lower	Upper
62	100		
98	23.1	4.4	6.6#





#38

Trichloroethene

Concen: 0.067 ppbv

RT: 7.93 min Scan# 1552

Delta R.T. -0.01 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:130 Resp: 5898

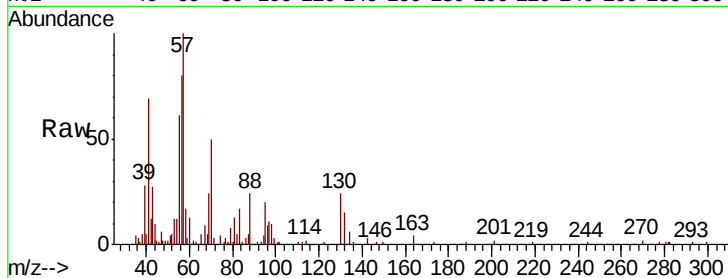
Ion Ratio Lower Upper

130 100

95 20.9 85.5 128.3#

132 11.7 75.1 112.7#

97 20.7 58.1 87.1#

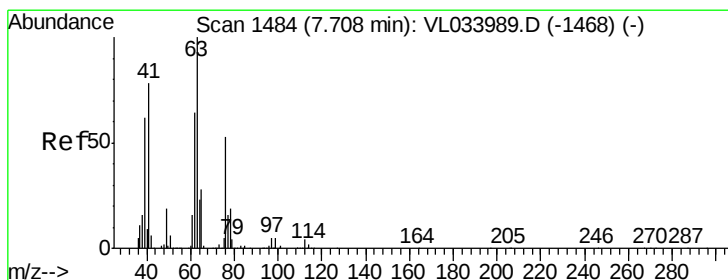
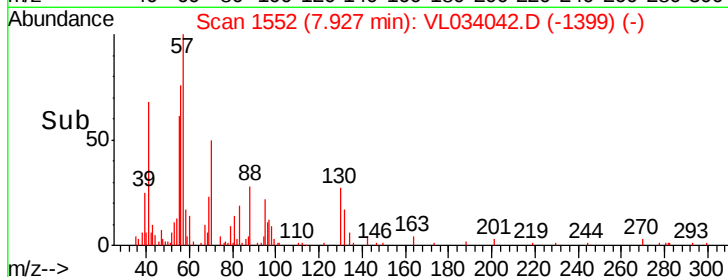
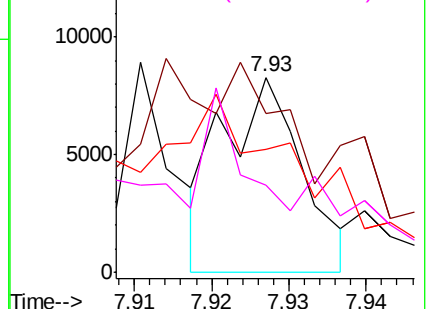


Abundance Ion 130.00 (129.70 to 130.70): V

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: 8.536 ppbv

RT: 7.25 min Scan# 1343

Delta R.T. -0.45 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

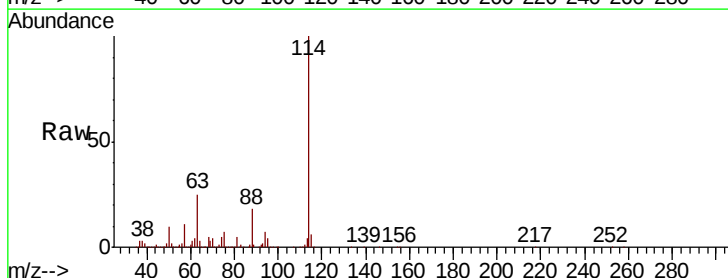
Tgt Ion: 63 Resp: 624225

Ion Ratio Lower Upper

63 100

41 0.0 62.3 93.5#

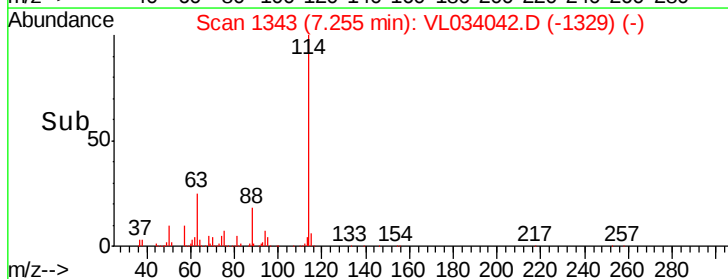
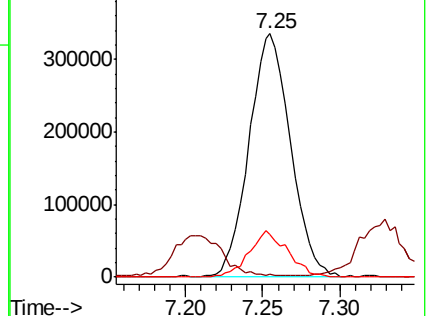
62 17.5 51.4 77.2#

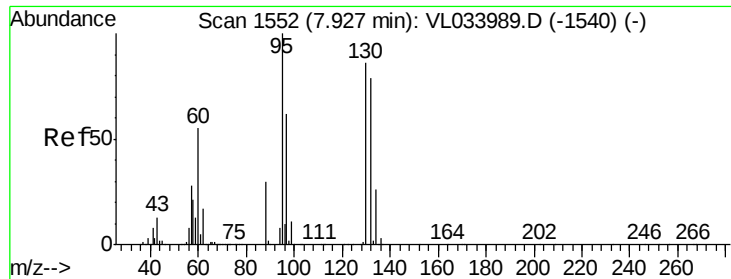


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

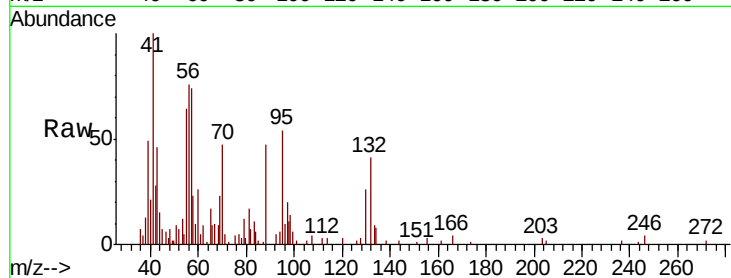




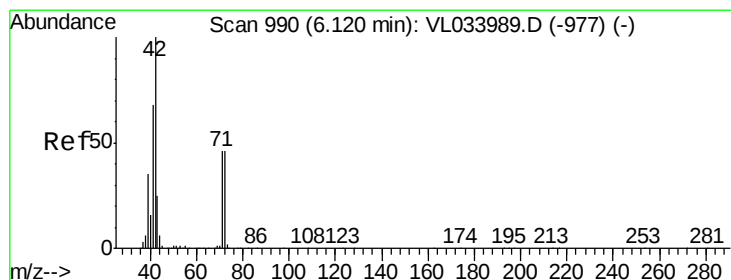
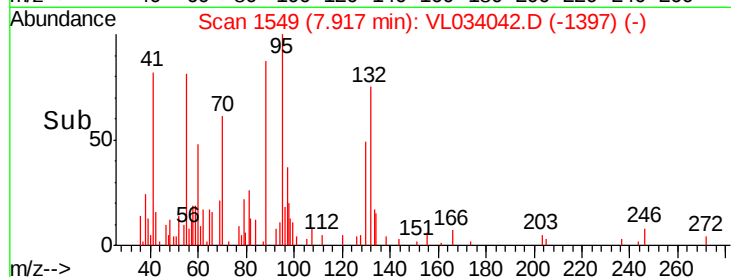
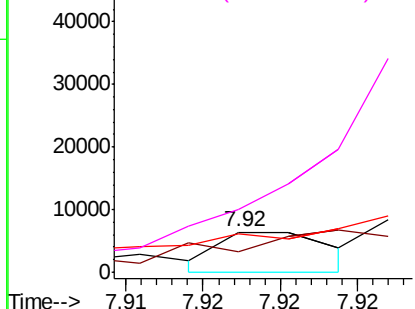
#40
1,4-Dioxane
Concen: 0.094 ppbv
RT: 7.92 min Scan# 1549
Delta R.T. -0.01 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 88 Resp: 3190
Ion Ratio Lower Upper
88 100
58 0.0 99.1 148.7#
43 0.0 0.0 0.0
57 0.0 0.0 0.0

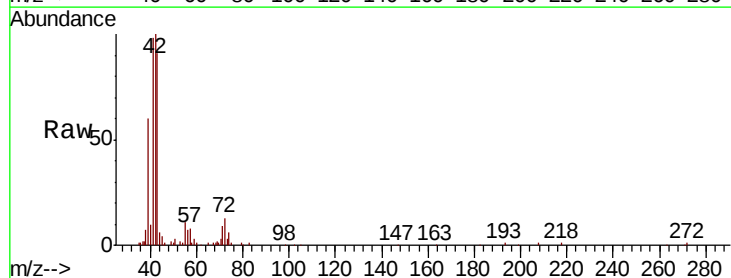


Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

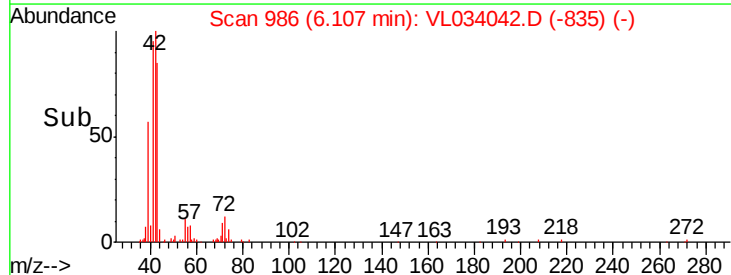
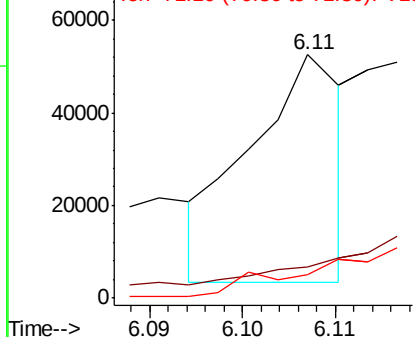


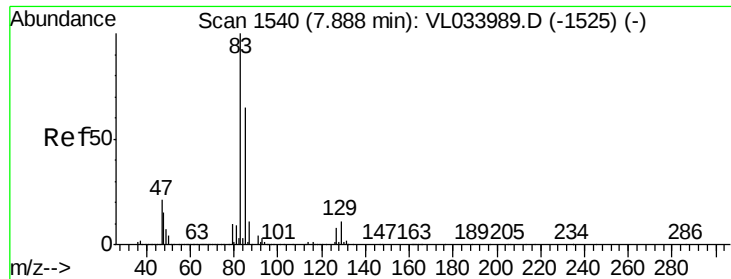
#41
Tetrahydrofuran
Concen: 0.526 ppbv
RT: 6.11 min Scan# 986
Delta R.T. -0.01 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Tgt Ion: 42 Resp: 34346
Ion Ratio Lower Upper
42 100
72 0.0 37.3 55.9#
71 0.0 36.2 54.2#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.116 ppbv

RT: 7.88 min Scan# 1537

Delta R.T. -0.01 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Instrument :

MSVOA_L

ClientSampleId :

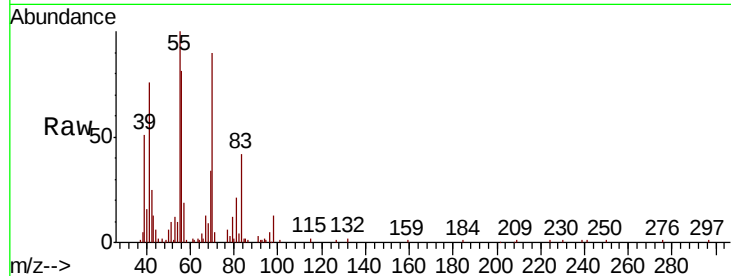
Tot Ion: 83 Resp: 22638

Ion Ratio Lower Upper

83 100

85 0.0 51.8 77.8#

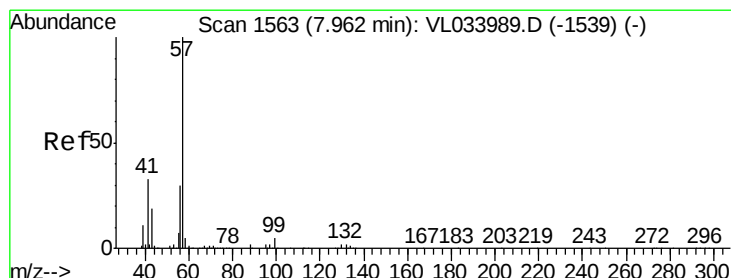
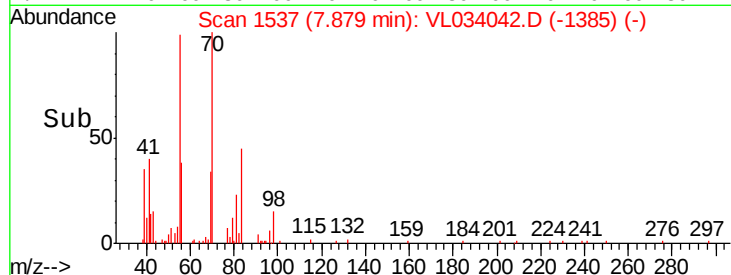
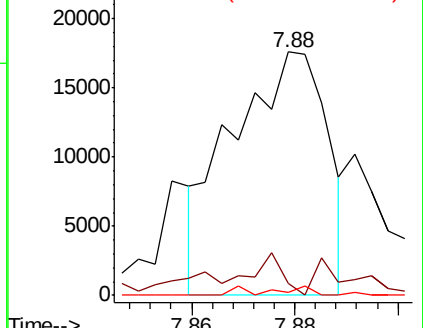
127 2.2 6.5 9.7#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V



#44

2,2,4-Trimethylpentane

Concen: 0.618 ppbv

RT: 7.95 min Scan# 1558

Delta R.T. -0.02 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

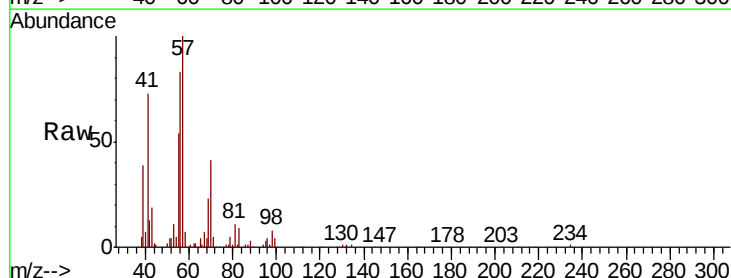
Tgt Ion: 57 Resp: 209634

Ion Ratio Lower Upper

57 100

41 73.8 26.1 39.1#

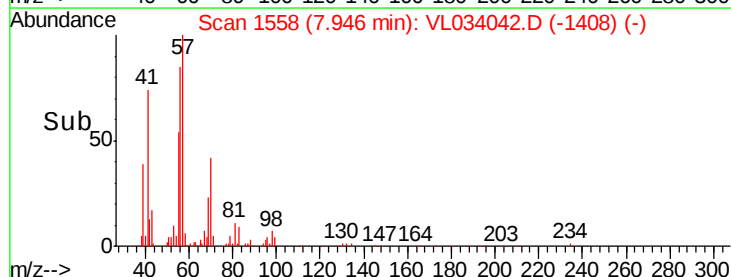
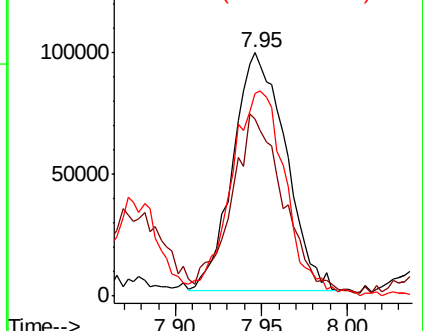
56 88.4 24.4 36.6#

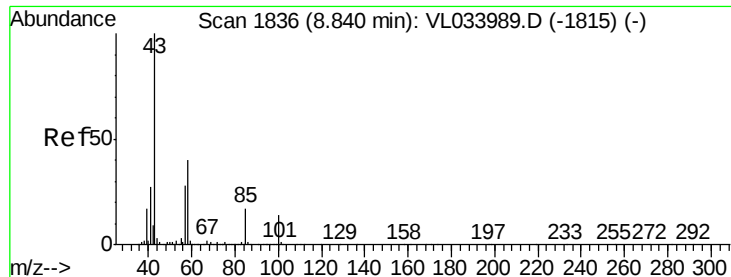


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

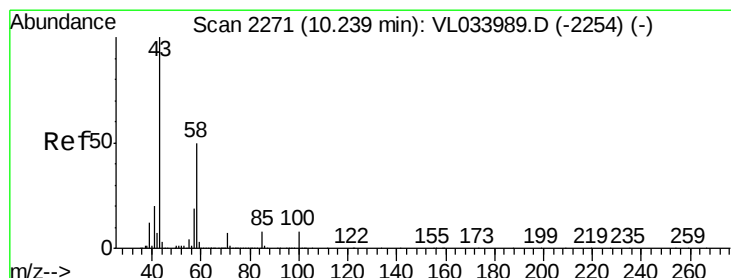
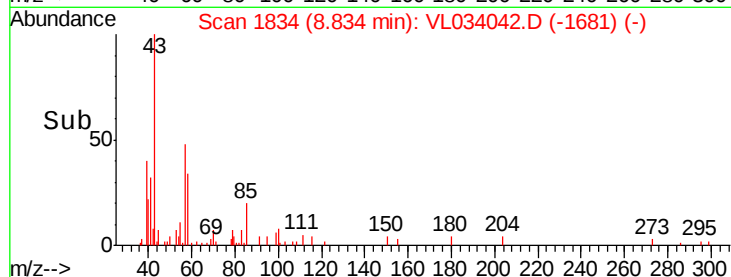
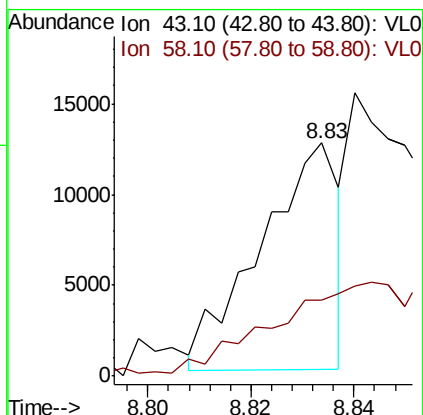
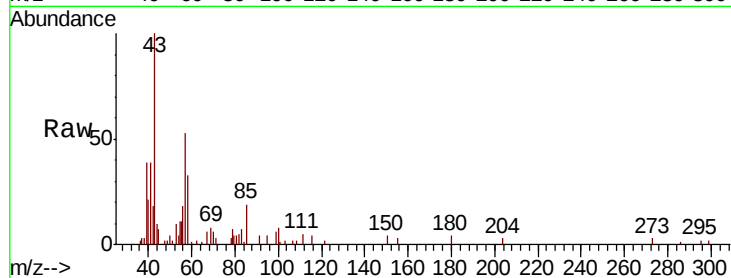




#50
4-Methyl-2-Pentanone
Concen: 0.067 ppbv
RT: 8.83 min Scan# 1834
Delta R.T. -0.01 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

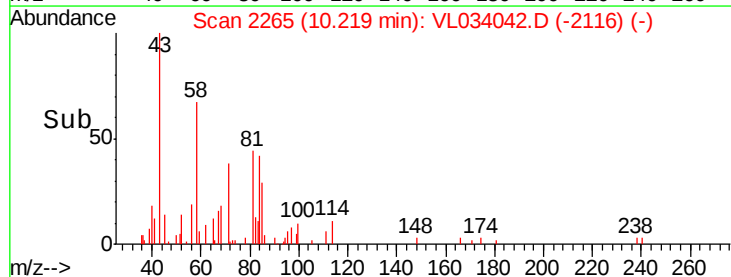
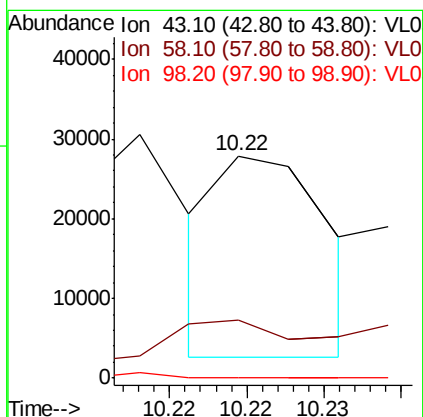
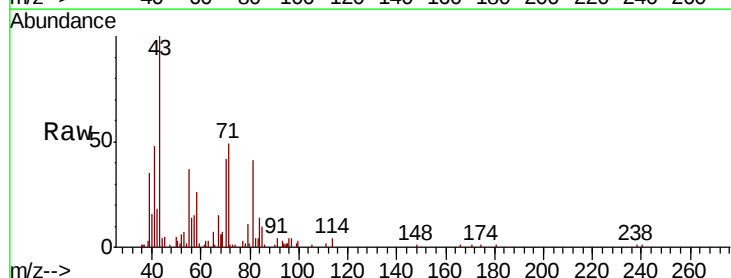
Instrument :
MSVOA_L
ClientSampleId :

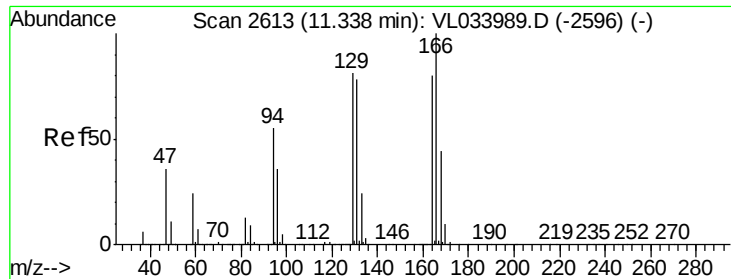
Tot Ion: 43 Resp: 13216
Ion Ratio Lower Upper
43 100
58 0.0 30.3 45.5#



#51
2-Hexanone
Concen: 0.078 ppbv
RT: 10.22 min Scan# 2265
Delta R.T. -0.02 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Tgt Ion: 43 Resp: 12388
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.4#
98 0.0 0.2 0.2#

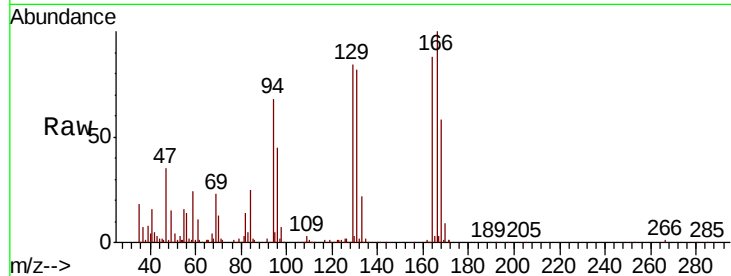




#52
Tetrachloroethene
Concen: 2.074 ppbv
RT: 11.32 min Scan# 2608
Delta R.T. -0.02 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
166	111.9	100.2	150.2
129	94.6	81.0	121.6
131	91.9	78.3	117.5



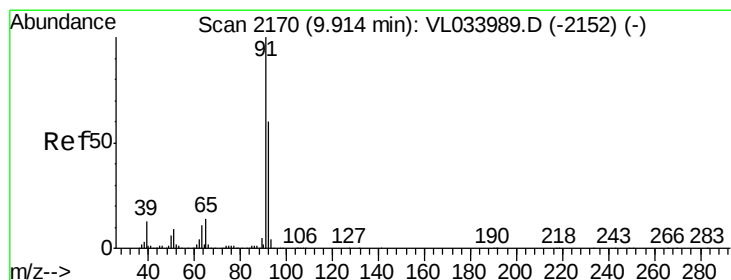
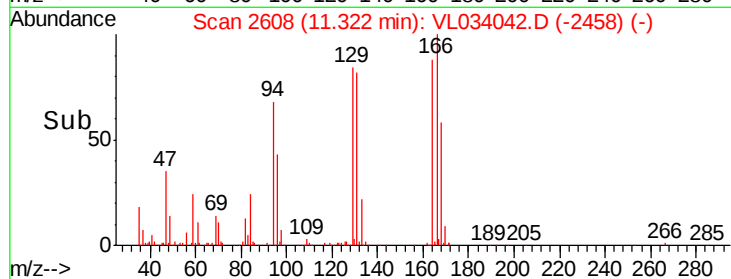
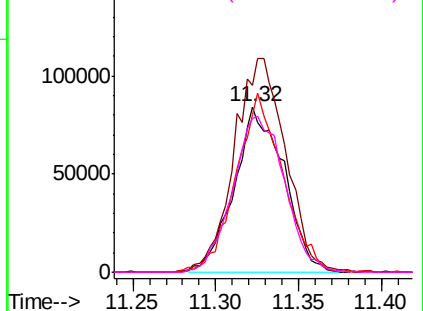
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

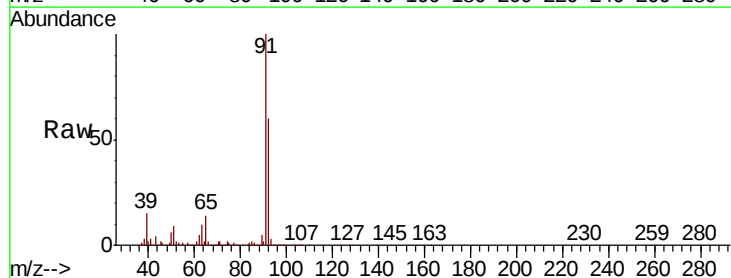
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53
Toluene
Concen: 6.201 ppbv
RT: 9.90 min Scan# 2166
Delta R.T. -0.01 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

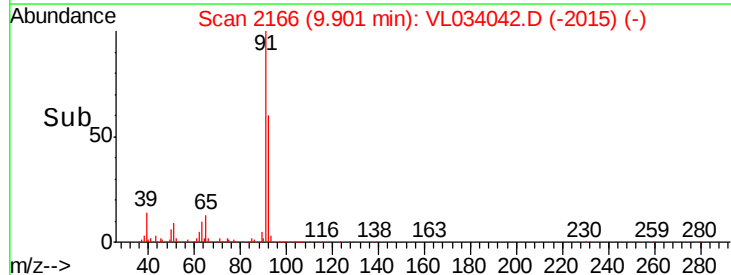
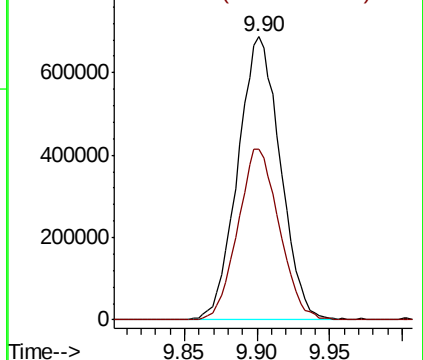
Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.4	47.7	71.5

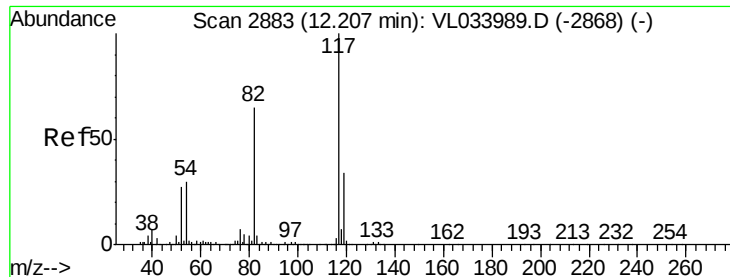


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

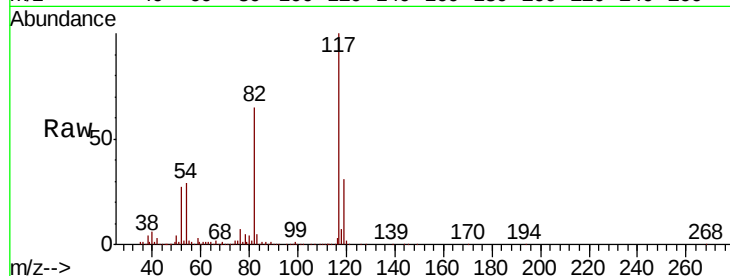




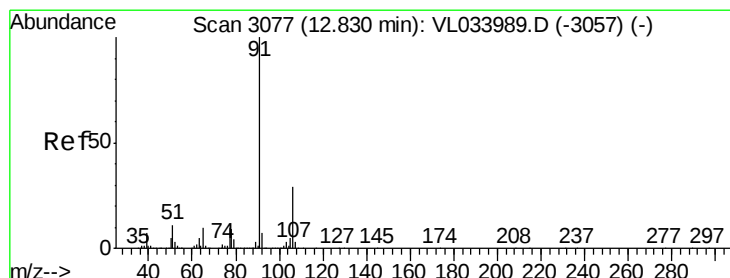
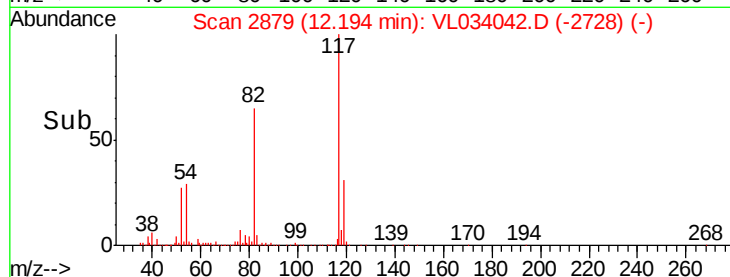
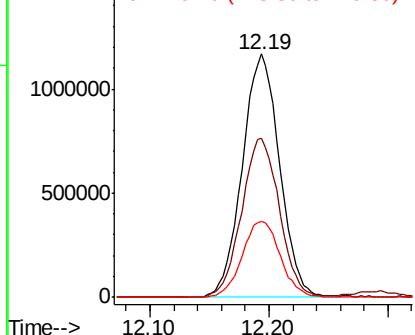
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.19 min Scan# 2879
Delta R.T. -0.01 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2534079
Ion Ratio Lower Upper
117 100
82 66.1 50.8 76.2
119 32.1 24.0 36.0

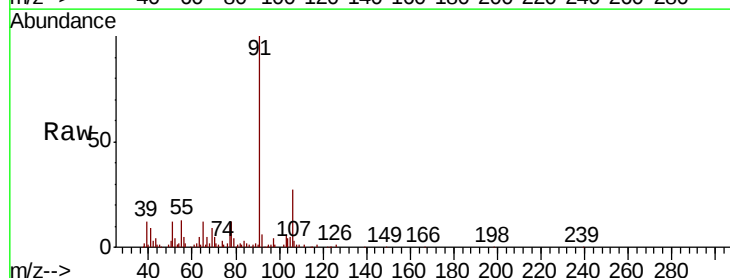


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

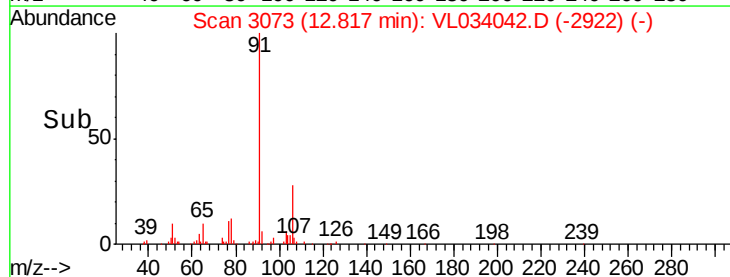
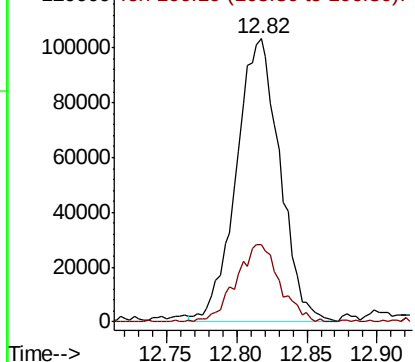


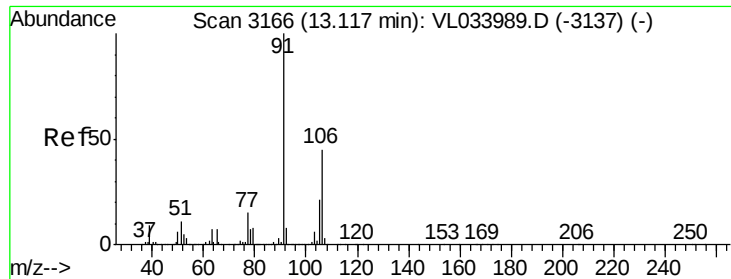
#58
Ethyl Benzene
Concen: 0.729 ppbv
RT: 12.82 min Scan# 3073
Delta R.T. -0.01 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Tgt Ion: 91 Resp: 222175
Ion Ratio Lower Upper
91 100
106 27.2 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

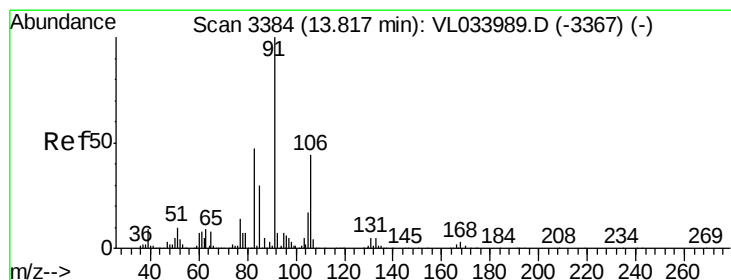
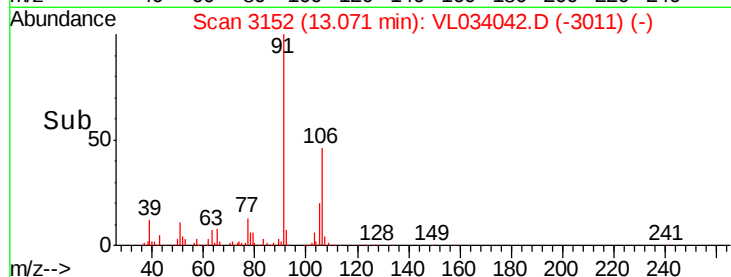
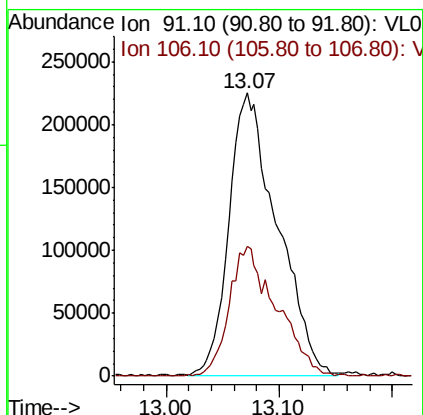
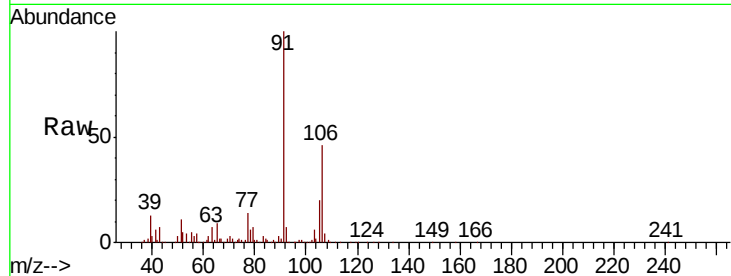




#59
m/p-Xylene
Concen: 2.411 ppbv
RT: 13.07 min Scan# 3152
Delta R.T. -0.05 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

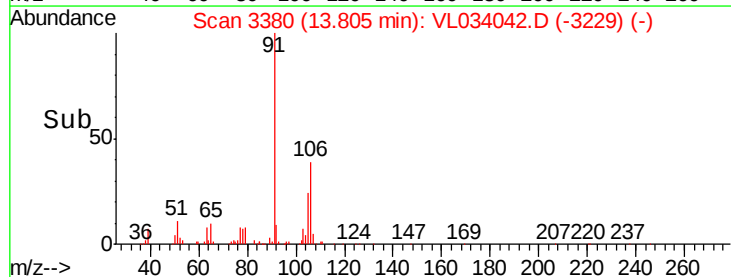
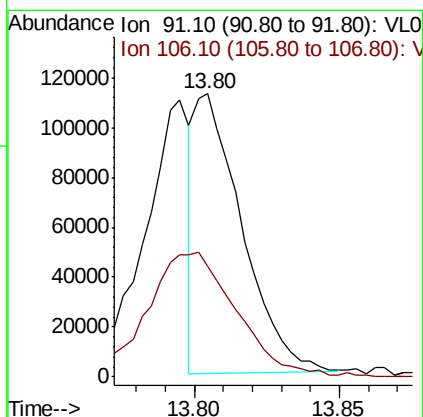
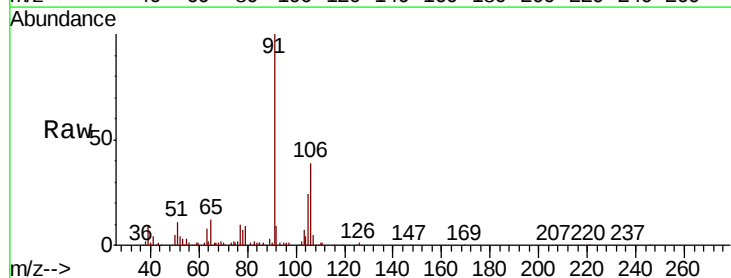
Instrument :
MSVOA_L
ClientSampleId :

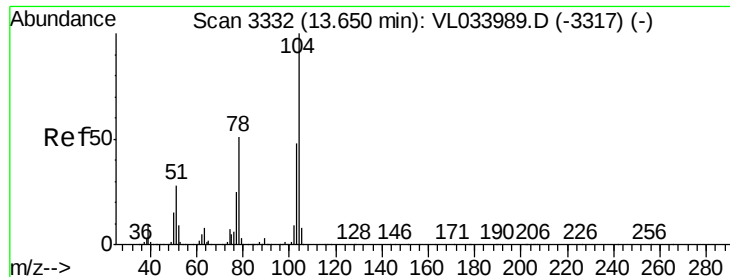
Tot Ion: 91 Resp: 665336
Ion Ratio Lower Upper
91 100
106 45.1 35.7 53.5



#60
o-Xylene
Concen: 0.456 ppbv
RT: 13.80 min Scan# 3380
Delta R.T. -0.01 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Tgt Ion: 91 Resp: 125838
Ion Ratio Lower Upper
91 100
106 85.9 21.9 65.7#





#61

Stvrene

Concen: 0.187 ppbv

RT: 13.64 min Scan# 3328

Delta R.T. -0.01 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

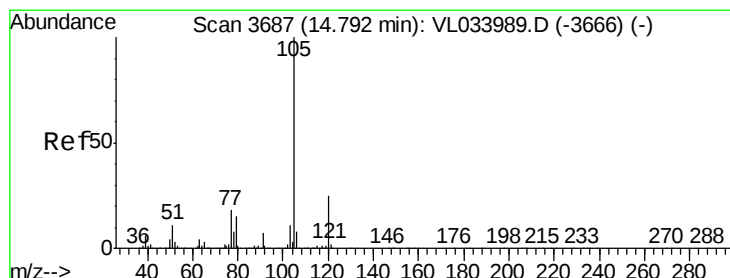
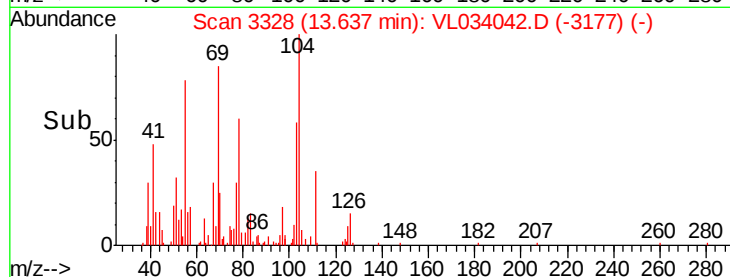
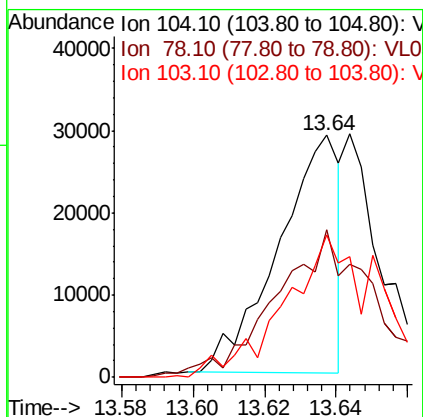
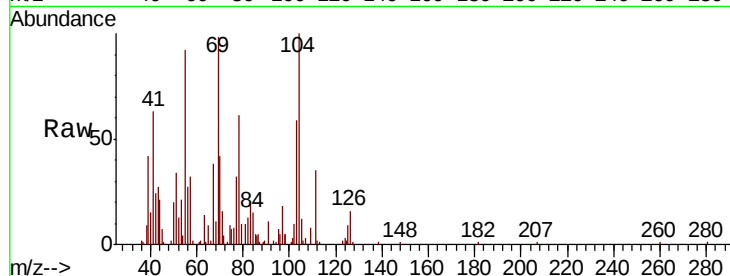
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:104 Resp: 34207

Ion	Ratio	Lower	Upper
104	100		
78	106.2	43.9	65.9#
103	95.5	38.1	57.1#



#62

Isopropylbenzene

Concen: 0.327 ppbv

RT: 14.78 min Scan# 3684

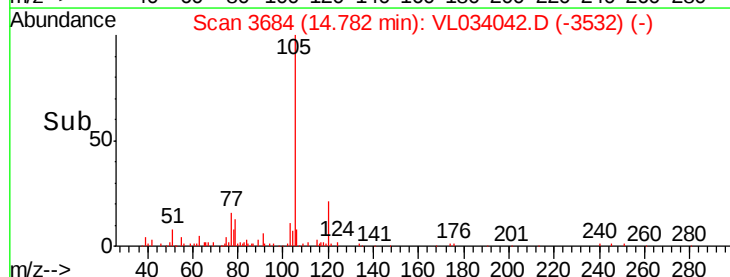
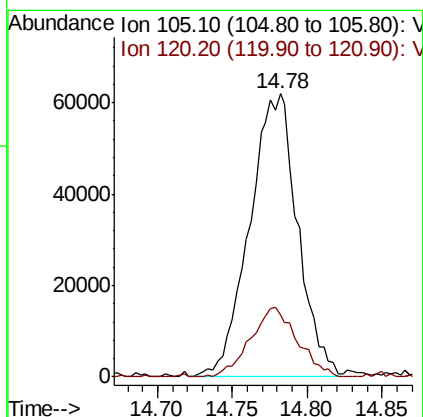
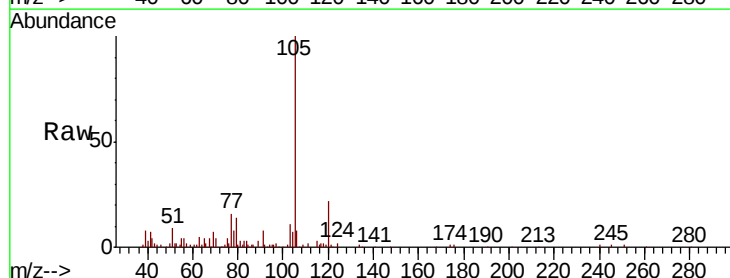
Delta R.T. -0.01 min

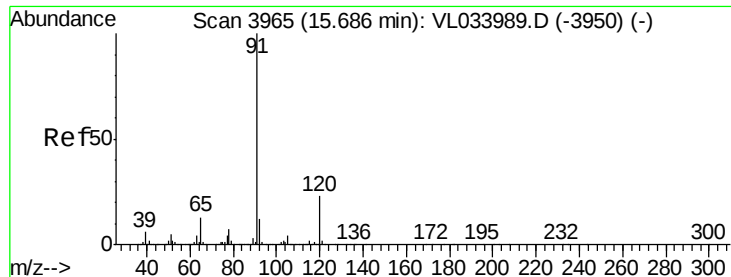
Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Tgt Ion:105 Resp: 138723

Ion	Ratio	Lower	Upper
105	100		
120	24.1	20.4	30.6

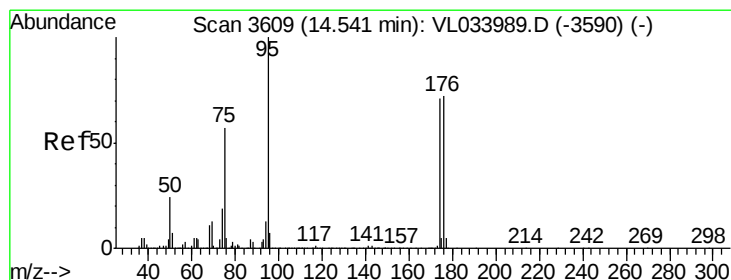
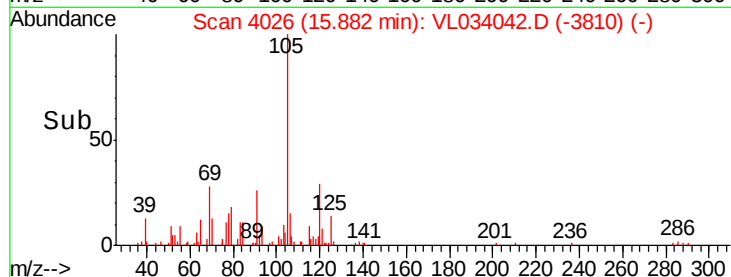
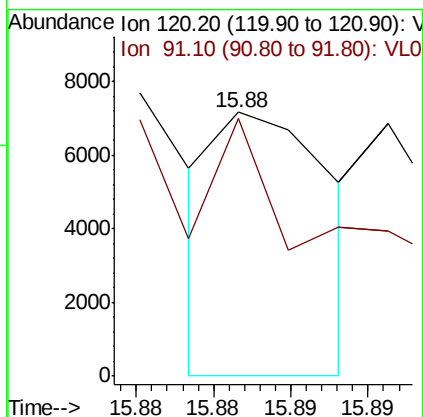
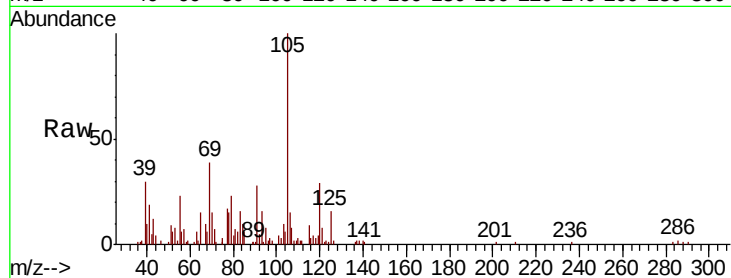




#64
n-propylbenzene
Concen: 0.034 ppbv
RT: 15.88 min Scan# 4026
Delta R.T. 0.20 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

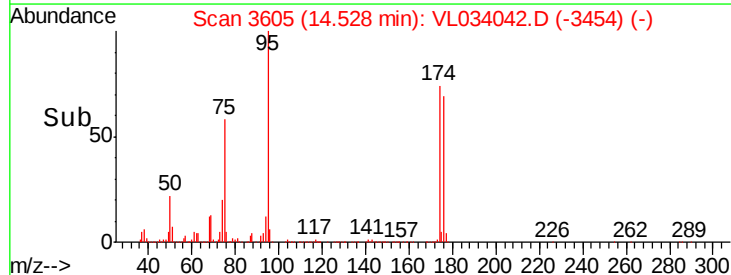
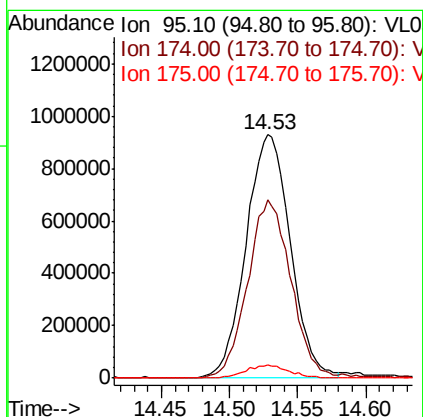
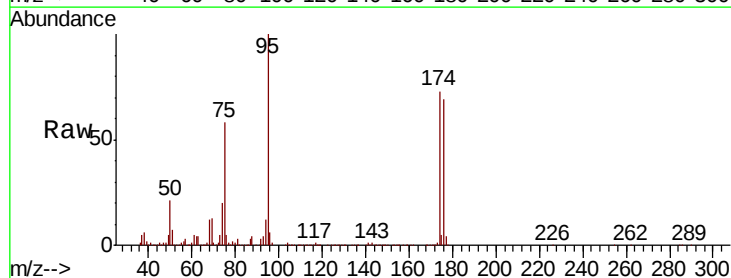
Instrument :
MSVOA_L
ClientSampled :

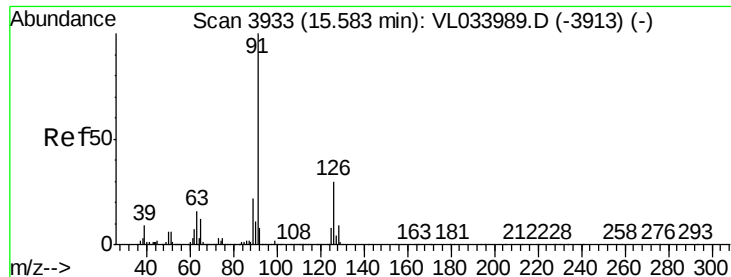
Tot Ion:120 Resp: 3692
Ion Ratio Lower Upper
120 100
91 471.6 386.6 579.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.681 ppbv
RT: 14.53 min Scan# 3605
Delta R.T. -0.01 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Tgt Ion: 95 Resp: 2092389
Ion Ratio Lower Upper
95 100
174 72.8 60.5 90.7
175 5.3 4.0 6.0

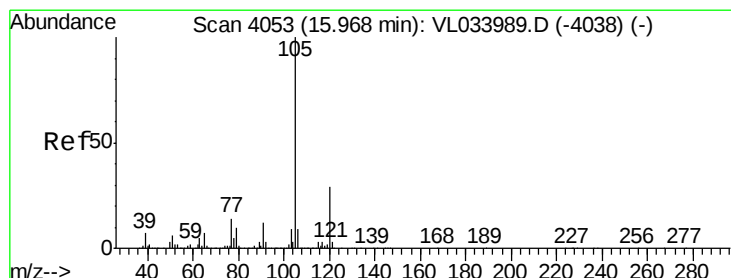
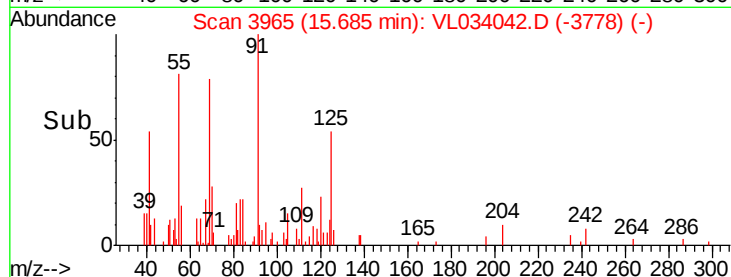
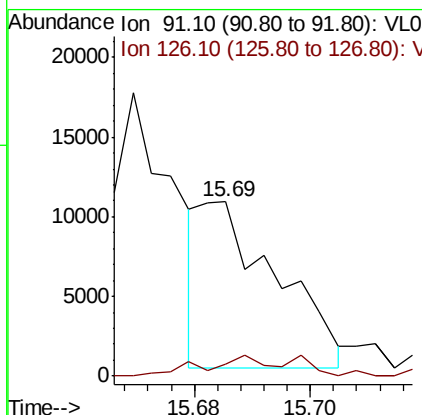
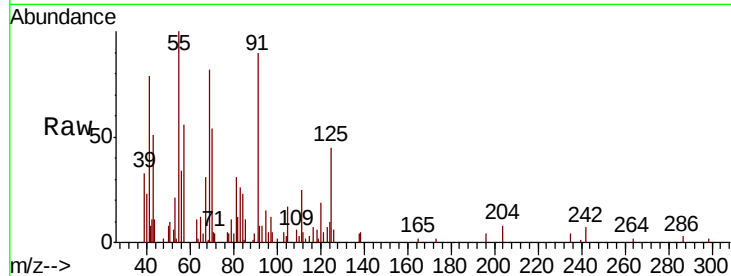




#71
2-Chlorotoluene
Concen: 0.031 ppbv
RT: 15.69 min Scan# 3965
Delta R.T. 0.10 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

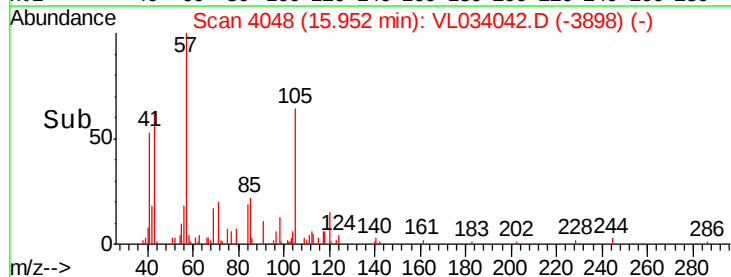
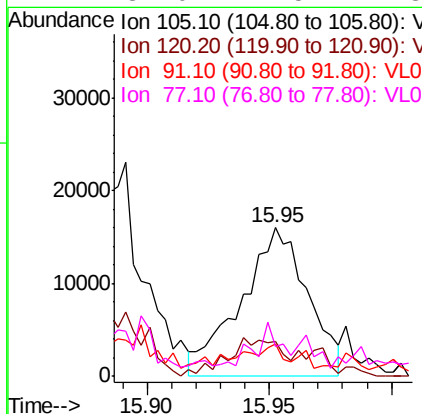
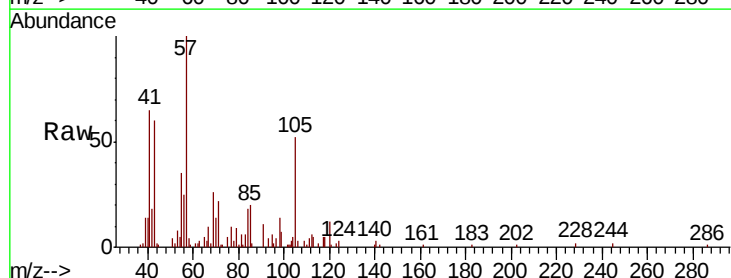
Instrument :
MSVOA_L
ClientSampleId :

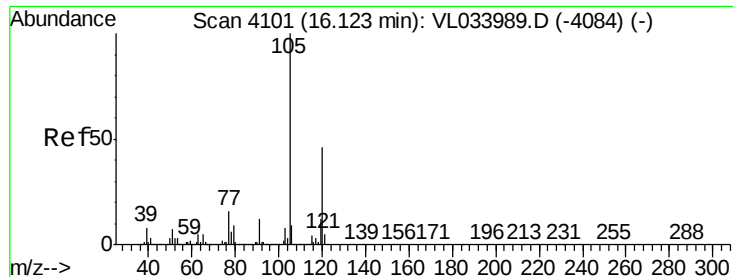
Tot Ion: 91 Resp: 9564
Ion Ratio Lower Upper
91 100
126 14.2 12.3 49.3



#72
4-Ethyltoluene
Concen: 0.086 ppbv
RT: 15.95 min Scan# 4048
Delta R.T. -0.02 min
Lab File: VL034042.D
Acq: 17 Jul 2019 21:53

Tgt Ion: 105 Resp: 30320
Ion Ratio Lower Upper
105 100
120 29.4 24.1 36.1
91 13.2 10.6 16.0
77 31.0 11.5 17.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.047 ppbv

RT: 16.11 min Scan# 4097

Delta R.T. -0.01 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Instrument :

MSVOA_L

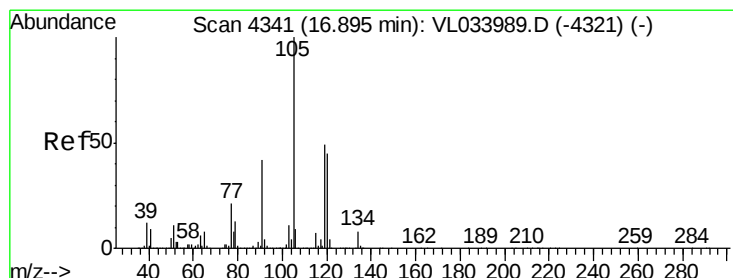
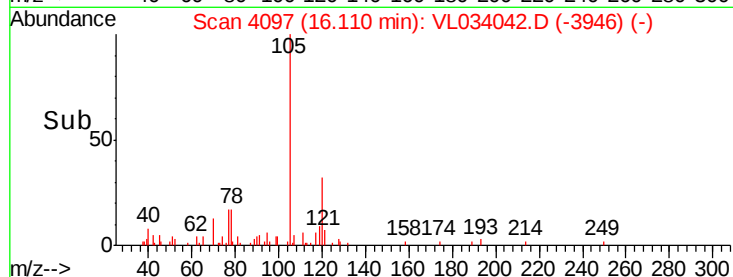
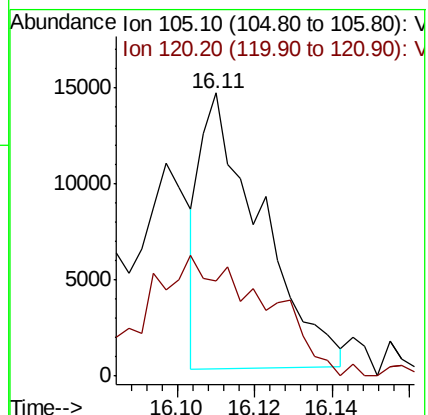
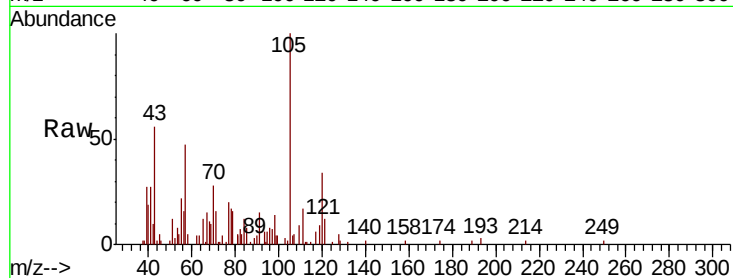
ClientSampleId :

Tot Ion:105 Resp: 15448

Ion Ratio Lower Upper

105 100

120 37.3 36.4 54.6



#74

1,2,4-Trimethylbenzene

Concen: 0.064 ppbv

RT: 16.88 min Scan# 4337

Delta R.T. -0.01 min

Lab File: VL034042.D

Acq: 17 Jul 2019 21:53

Tgt Ion:105 Resp: 23413

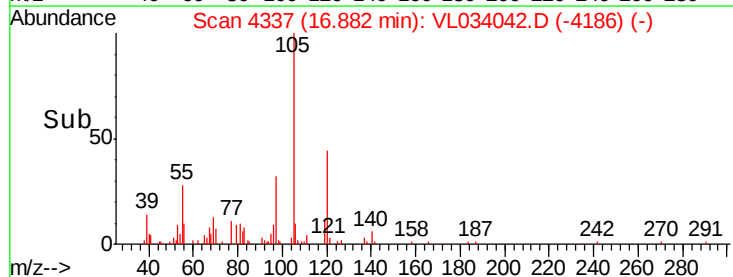
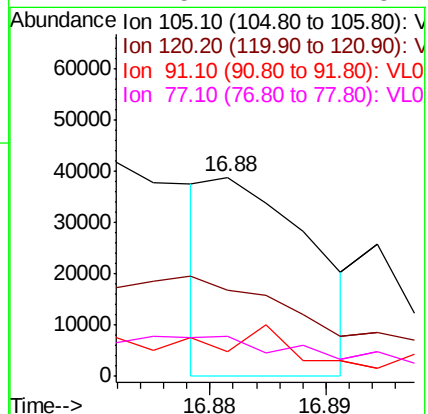
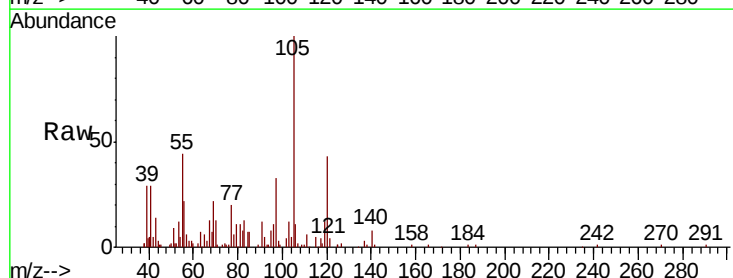
Ion Ratio Lower Upper

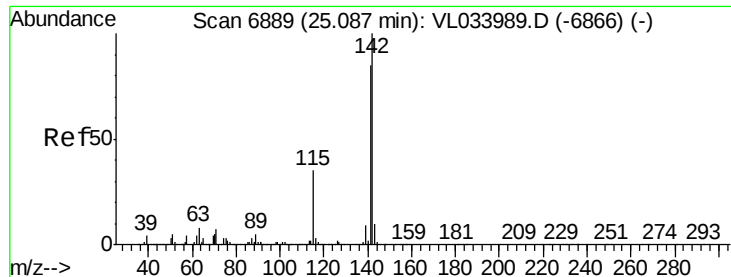
105 100

120 48.6 36.2 54.2

91 9.5 34.3 51.5#

77 24.5 17.1 25.7

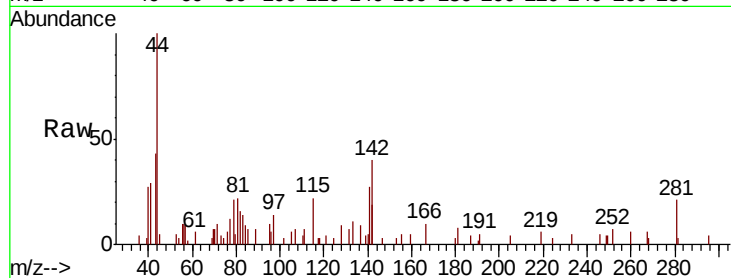




#80
 Naphthalene, 2-methyl-
 Concen: 0.050 ppbv
 RT: 25.07 min Scan# 6884
 Delta R.T. -0.02 min
 Lab File: VL034042.D
 Acq: 17 Jul 2019 21:53

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	94.3	68.2	102.2
115	38.3	29.9	44.9



Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

