

Data File : VL034209.D
Acq On : 2 Oct 2019 13:53
Operator : SY/AP
Sample : K5106-05DUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-5DUP

Quant Time: Oct 03 05:39:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18 12:53:31 2019
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1010018	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1871639	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	1870954	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	1646346	10.13	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.03	85	25492	0.171 ppbv	93
3) Chlorodifluoromethane	2.95	51	53511	0.452 ppbv #	73
4) Chloromethane	3.12	50	184229	2.647 ppbv	91
5) Vinyl Chloride	3.25	62	13480	0.212 ppbv	99
6) Bromomethane	3.47	94	1862	0.063 ppbv #	49
7) Chloroethane	3.56	64	4890	0.220 ppbv #	87
9) Propene	2.99	41	4907647	83.995 ppbv	93
10) Heptane	8.18	43	862063	5.661 ppbv	95
11) Trichlorofluoromethane	3.95	101	44977	0.331 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	4322	0.049 ppbv #	16
13) Ethanol	3.60	45	592332	41.866 ppbv	97
15) Acetone	3.85	43	7148512	52.807 ppbv #	70
16) 1,3-Butadiene	3.30	39	4009794	67.874 ppbv #	34
17) tert-Butyl alcohol	4.30	59	1132871	13.208 ppbv	98
19) Isopropyl Alcohol	3.98	45	311840	3.746 ppbv #	95
20) Methylene Chloride	4.36	84	105474	2.702 ppbv #	92
21) Allyl Chloride	4.41	41	148292	1.939 ppbv #	1
23) Vinyl Acetate	5.09	43	428544	2.148 ppbv #	54
24) 1,1-Dichloroethane	5.16	63	22330	0.166 ppbv #	91
25) Ethyl Acetate	5.72	43	597857	2.336 ppbv #	84
26) Hexane	5.72	57	684932	6.432 ppbv #	40
27) Carbon Disulfide	4.56	76	1028828	10.476 ppbv	98
29) Chloroform	5.79	83	1905555	12.523 ppbv	98
30) Cyclohexane	7.18	84	68528	0.891 ppbv #	1
34) 2-Butanone	5.27	43	3164562	16.559 ppbv	93
36) Benzene	6.94	78	2627914	12.713 ppbv	99
37) 1,2-Dichloroethane	6.35	62	16496	0.112 ppbv	99
38) Trichloroethene	7.89	130	12950	0.175 ppbv #	79
39) 1,2-Dichloropropane	7.23	63	293734	3.163 ppbv #	21
41) Tetrahydrofuran	6.08	42	8025	0.075 ppbv #	42
42) Bromodichloromethane	7.84	83	20339	0.115 ppbv #	36
43) Methyl Methacrylate	8.07	69	62364	0.730 ppbv #	8
44) 2,2,4-Trimethylpentane	7.92	57	378621	0.951 ppbv #	52
50) 4-Methyl-2-Pentanone	8.80	43	229089	0.824 ppbv	98
51) 2-Hexanone	10.19	43	526115	2.254 ppbv #	99
52) Tetrachloroethene	11.30	164	1508061	22.082 ppbv	95
53) Toluene	9.87	91	2288257	10.129 ppbv	98
58) Ethyl Benzene	12.79	91	489069	1.620 ppbv #	89
59) m/p-Xylene	13.04	91	1087158	4.348 ppbv	98
60) o-Xylene	13.77	91	446603	1.786 ppbv	99
61) Styrene	13.61	104	20639	0.115 ppbv #	1

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 12:53:31 2019
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.75	105	23335	0.072	ppbv #	49
64) n-propylbenzene	15.64	120	32230	0.394	ppbv #	41
65) tert-Butylbenzene	16.84	119	32893	0.116	ppbv #	13
69) p-Isopropyltoluene	17.74	119	41685	0.127	ppbv #	56
70) n-Butylbenzene	18.64	91	11786	0.031	ppbv #	1
72) 4-Ethyltoluene	15.93	105	80777	0.286	ppbv #	38
73) 1,3,5-Trimethylbenzene	16.08	105	76660	0.281	ppbv	90
74) 1,2,4-Trimethylbenzene	16.84	105	536314	1.851	ppbv #	68
79) Naphthalene	22.31	128	12143	0.048	ppbv	98

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

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Misc : 400ml/MSVOA L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SV-5DUP

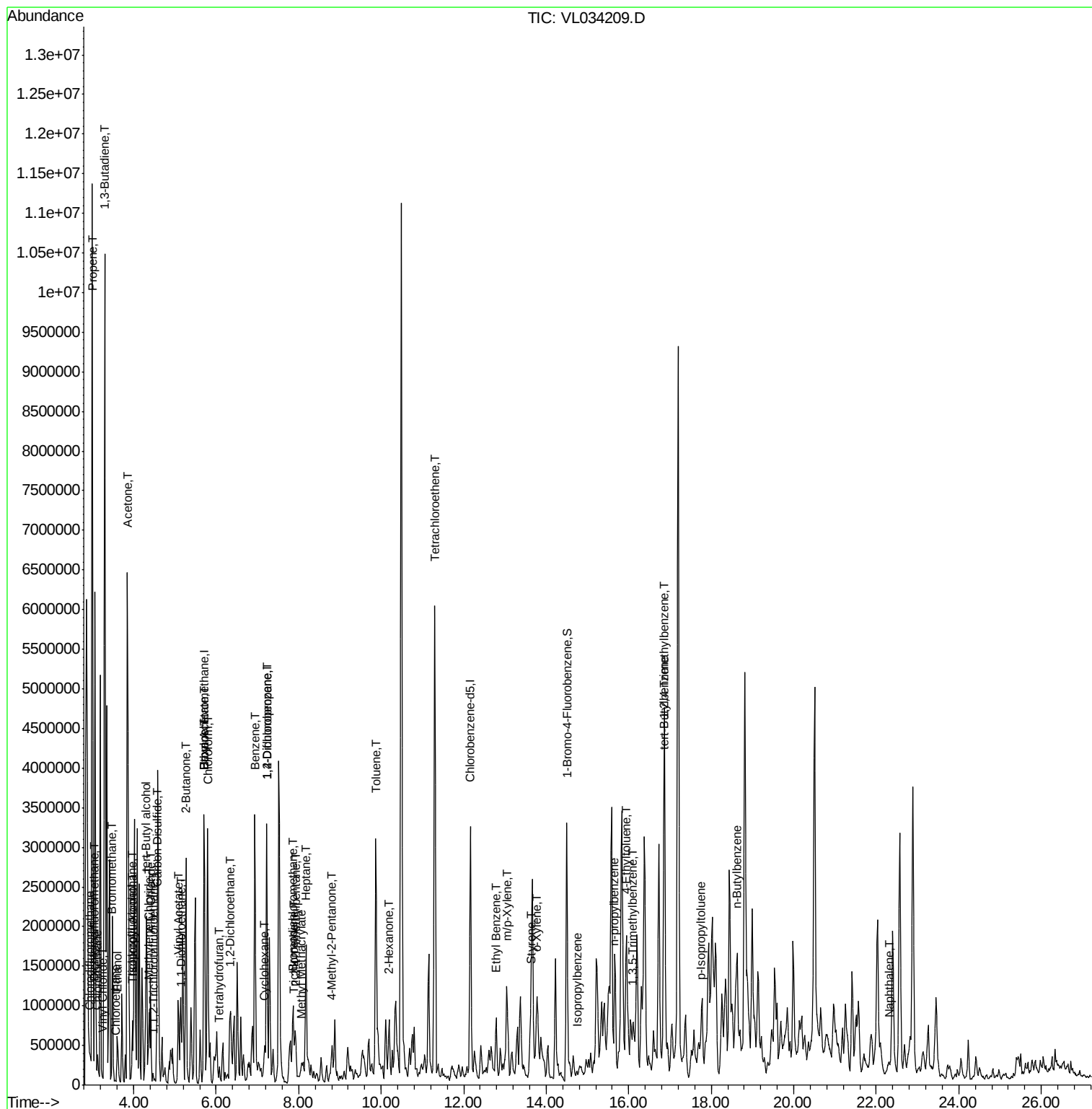
Quant Time: Oct 03 05:39:06 2019

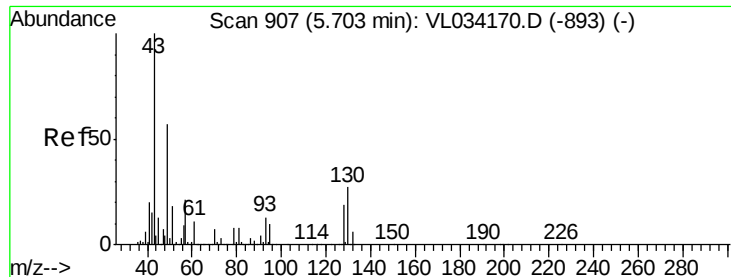
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL091719AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Sep 18 12:53:31 2019

QLast Update : Wed Sep 18 12:53:31 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.00 min

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Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

SV-5DUP

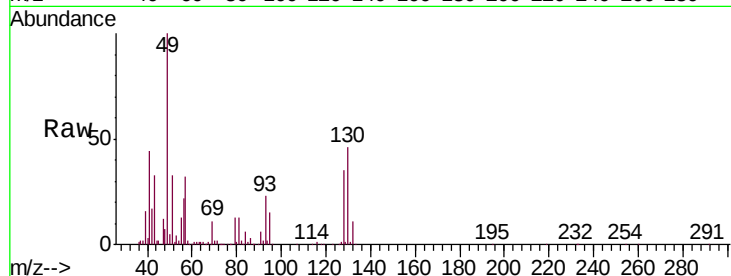
Tgt Ion: 49 Resp: 1010018

Ion Ratio Lower Upper

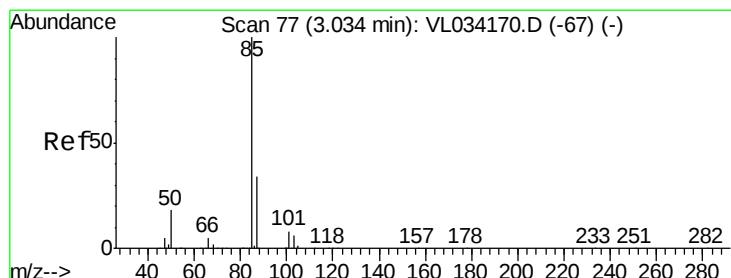
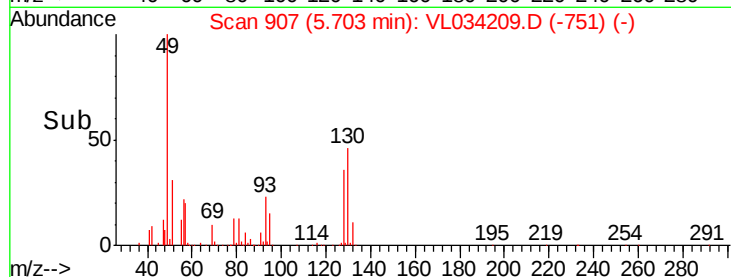
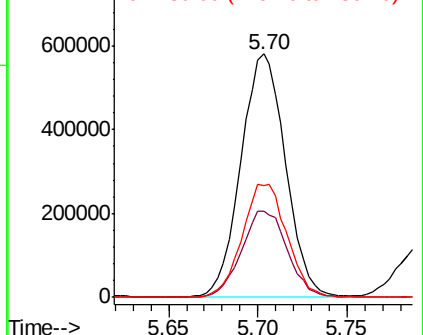
49 100

128 36.9 17.6 52.9

130 47.2 22.3 66.9



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: 0.171 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL034209.D

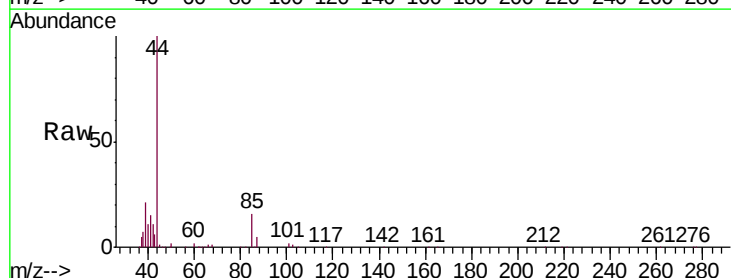
Acq: 2 Oct 2019 13:53

Tgt Ion: 85 Resp: 25492

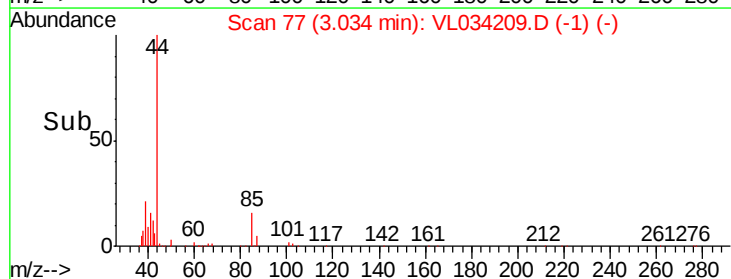
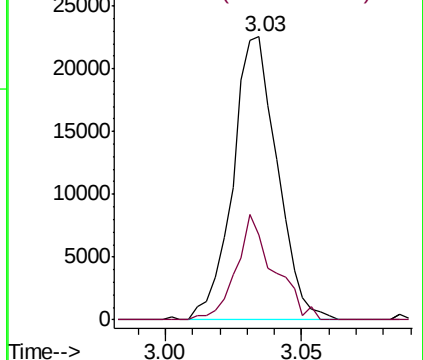
Ion Ratio Lower Upper

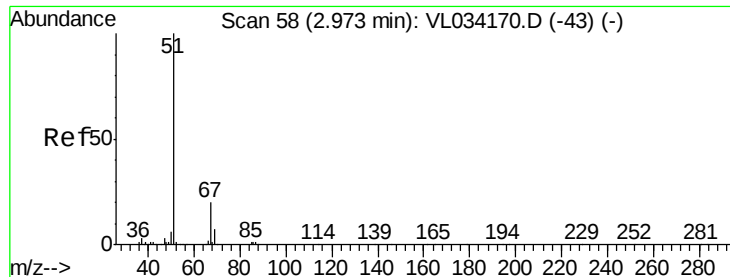
85 100

87 30.0 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.452 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.03 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

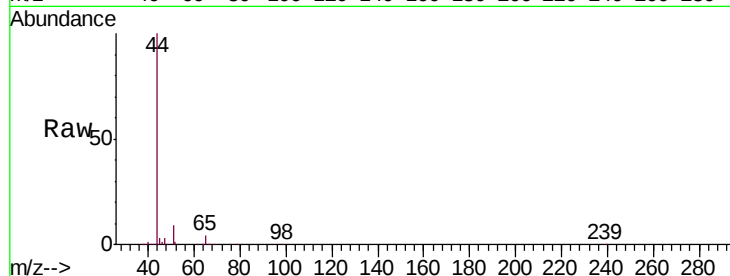
SV-5DUP

Tgt Ion: 51 Resp: 53511

Ion Ratio Lower Upper

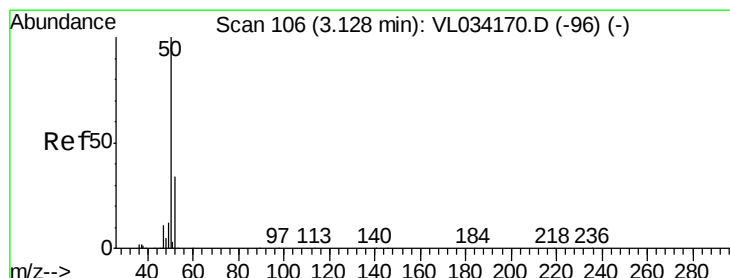
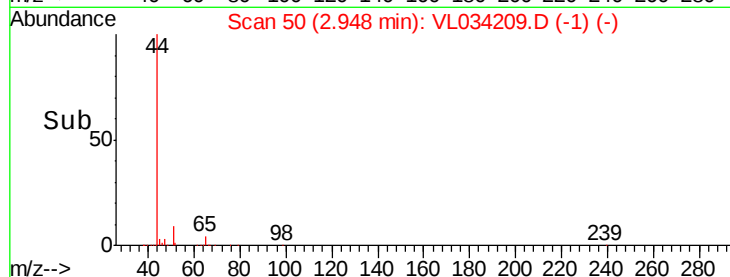
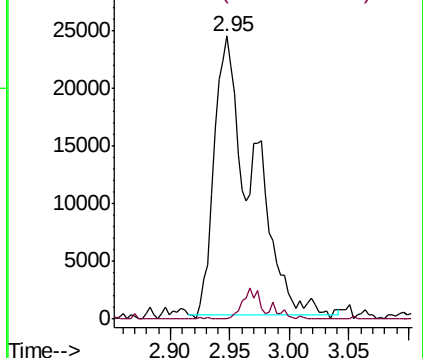
51 100

67 6.4 14.8 22.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 2.647 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL034209.D

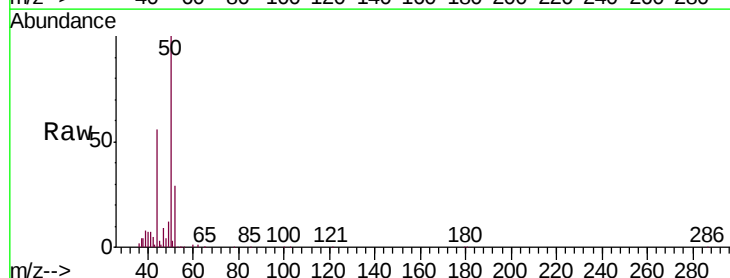
Acq: 2 Oct 2019 13:53

Tgt Ion: 50 Resp: 184229

Ion Ratio Lower Upper

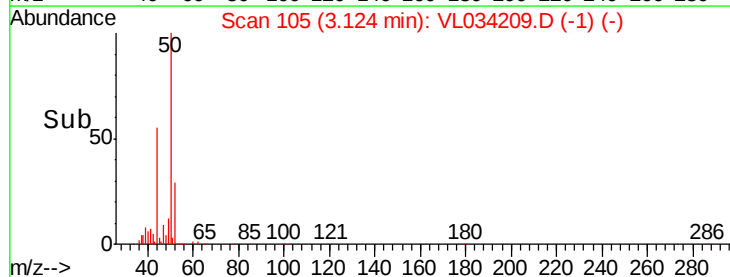
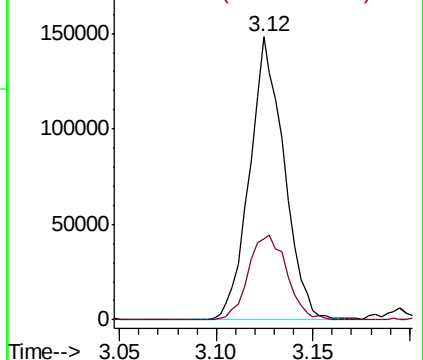
50 100

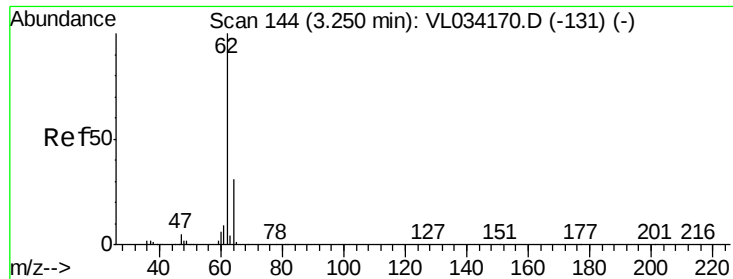
52 28.8 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.212 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

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ClientSampleId :

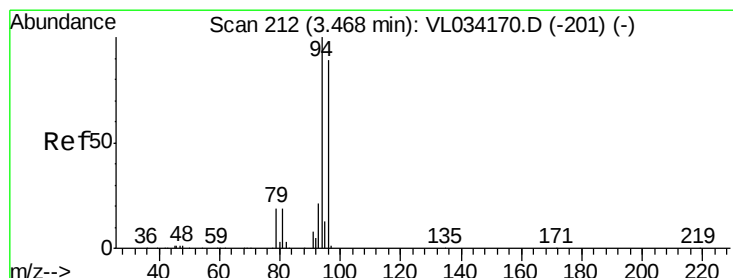
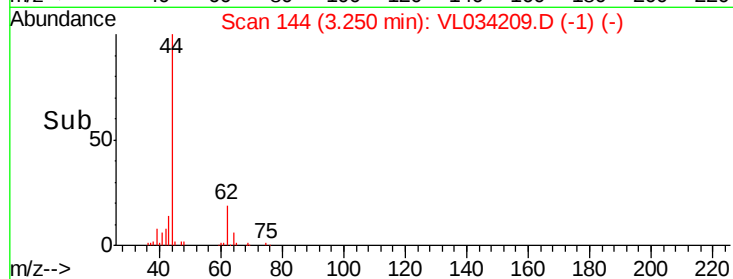
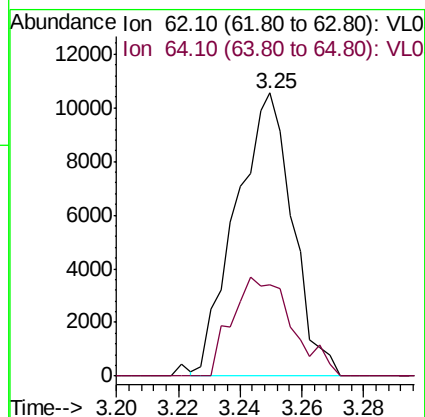
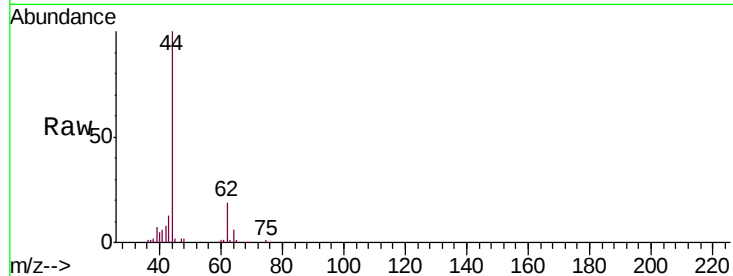
SV-5DUP

Tgt Ion: 62 Resp: 13480

Ion Ratio Lower Upper

62 100

64 32.2 25.2 37.8



#6

Bromomethane

Concen: 0.063 ppbv

RT: 3.47 min Scan# 212

Delta R.T. 0.00 min

Lab File: VL034209.D

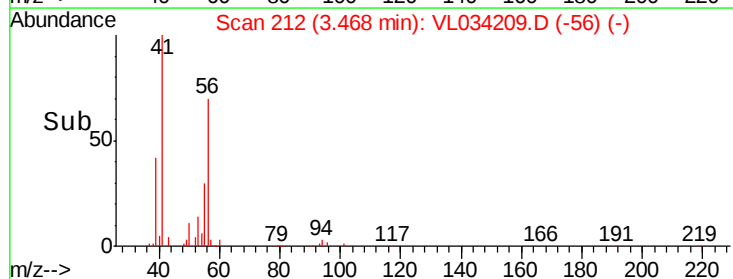
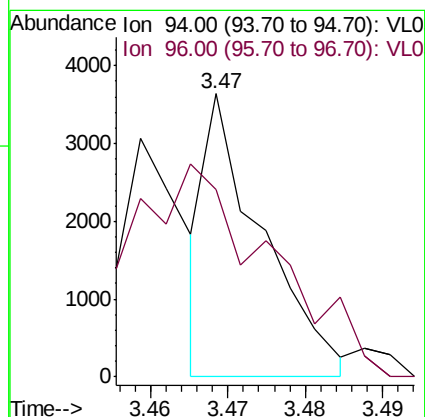
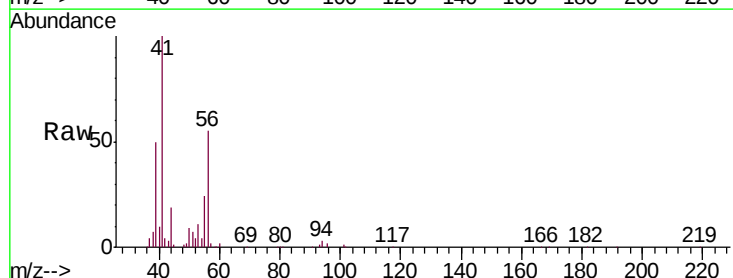
Acq: 2 Oct 2019 13:53

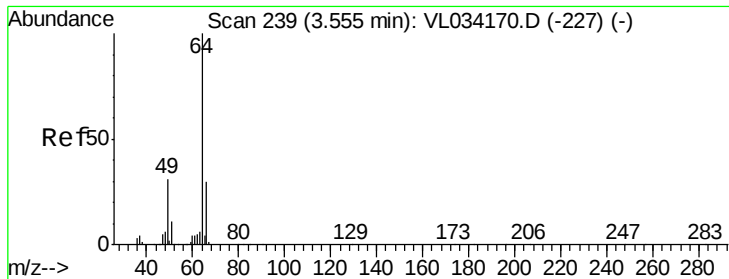
Tgt Ion: 94 Resp: 1862

Ion Ratio Lower Upper

94 100

96 41.3 71.3 106.9#





#7

Chloroethane

Concen: 0.220 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

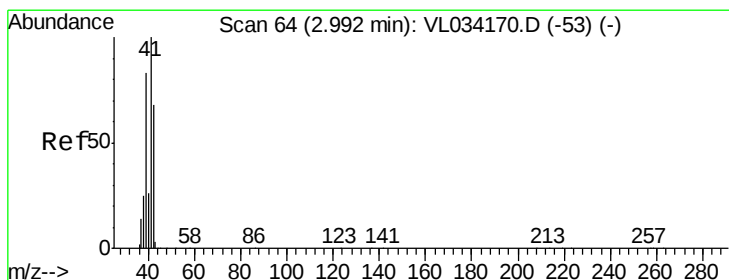
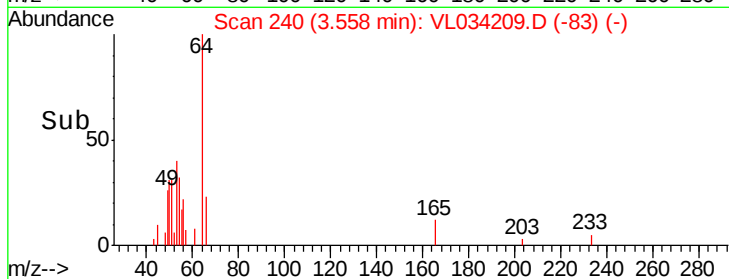
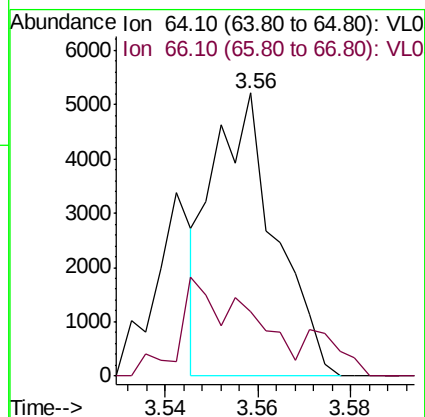
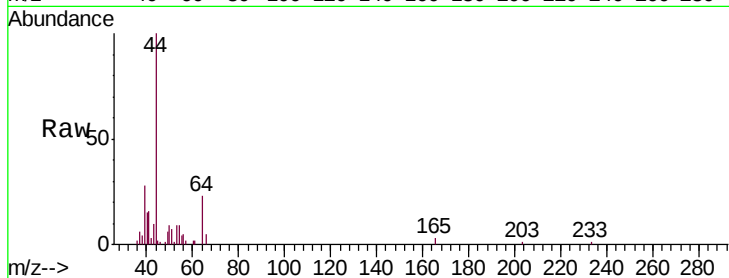
SV-5DUP

Tgt Ion: 64 Resp: 4890

Ion Ratio Lower Upper

64 100

66 23.0 24.2 36.4#



#9

Propene

Concen: 83.995 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034209.D

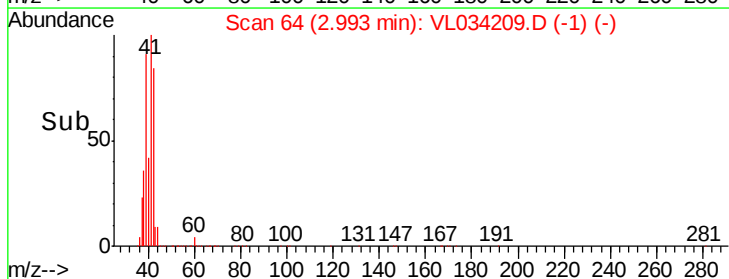
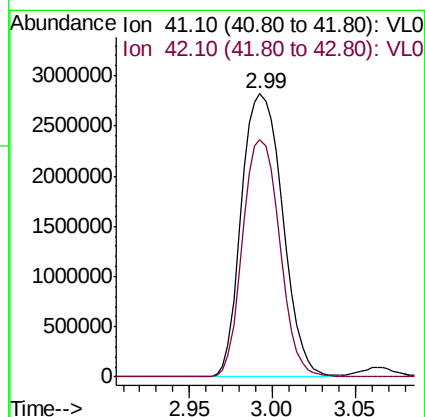
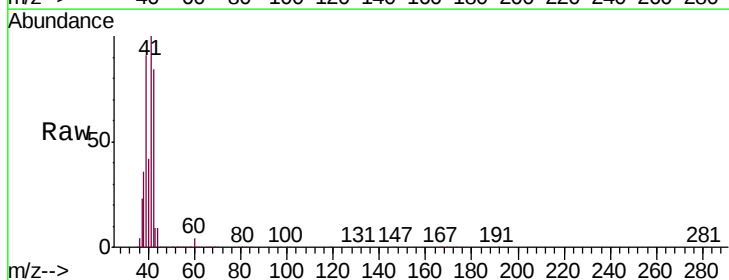
Acq: 2 Oct 2019 13:53

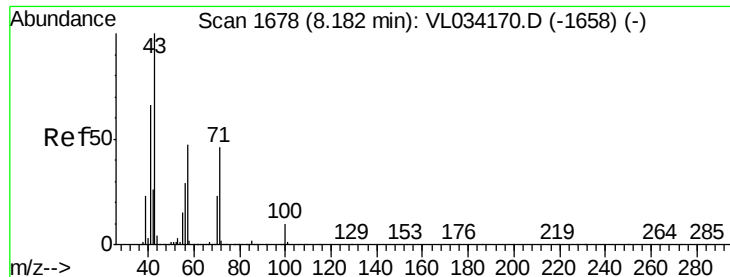
Tgt Ion: 41 Resp: 4907647

Ion Ratio Lower Upper

41 100

42 75.8 55.8 83.6





#10

Heptane

Concen: 5.661 ppbv

RT: 8.18 min Scan# 1677

Delta R.T. -0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

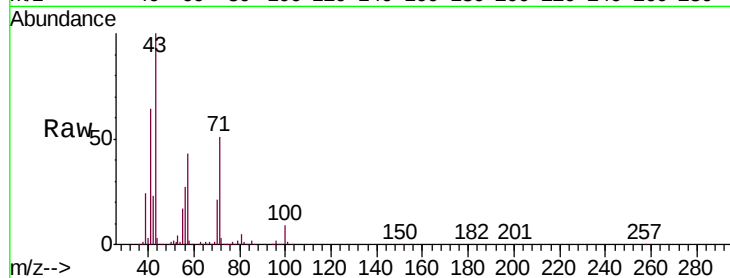
SV-5DUP

Tgt Ion: 43 Resp: 862063

Ion Ratio Lower Upper

43 100

57 43.8 37.5 56.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.18

400000

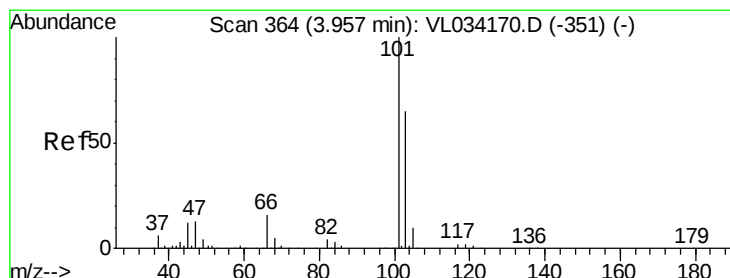
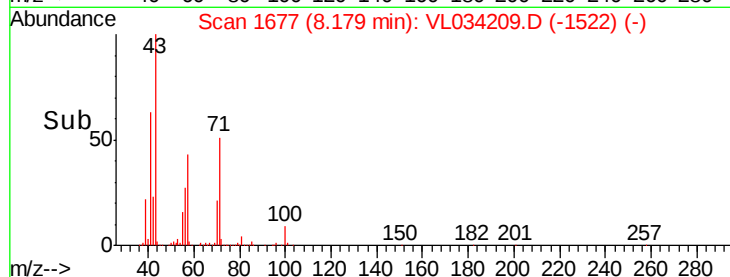
300000

200000

100000

0

Time-->



#11

Trichlorofluoromethane

Concen: 0.331 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VL034209.D

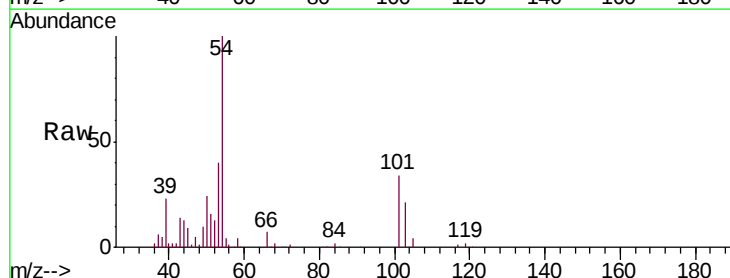
Acq: 2 Oct 2019 13:53

Tgt Ion: 101 Resp: 44977

Ion Ratio Lower Upper

101 100

103 62.5 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.95

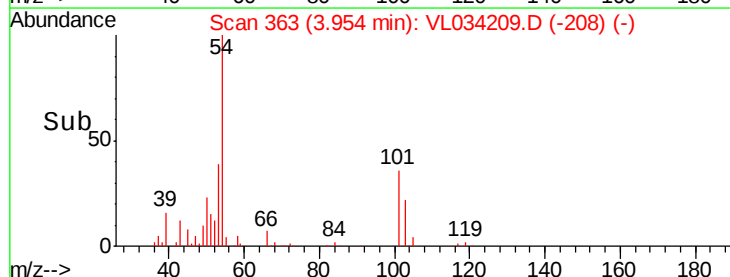
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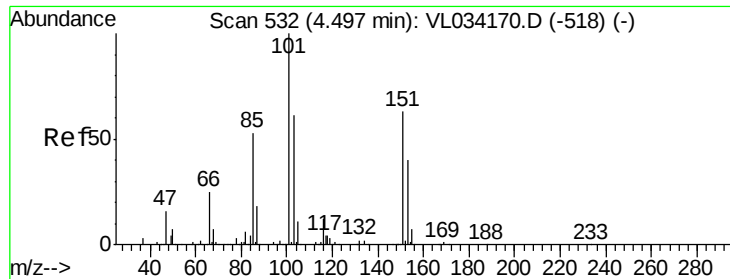
20000

10000

0

Time-->





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.049 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

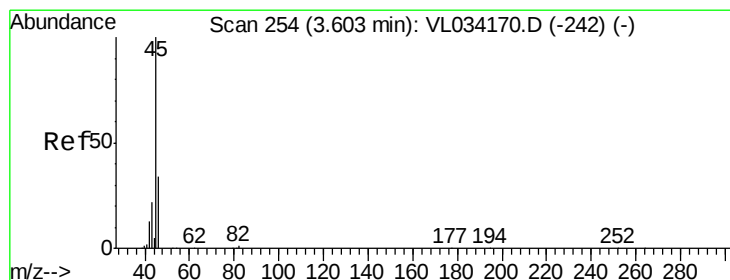
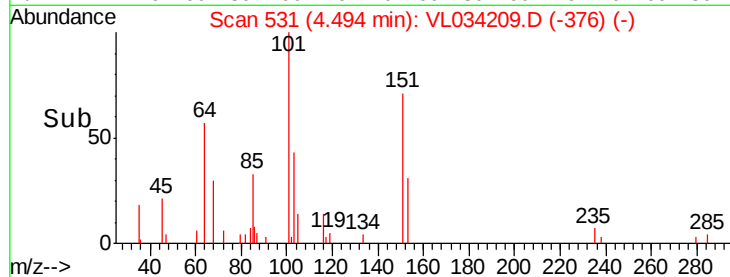
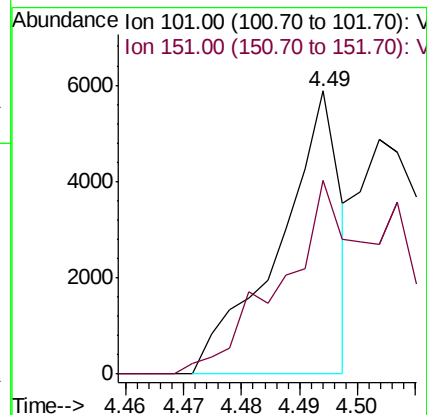
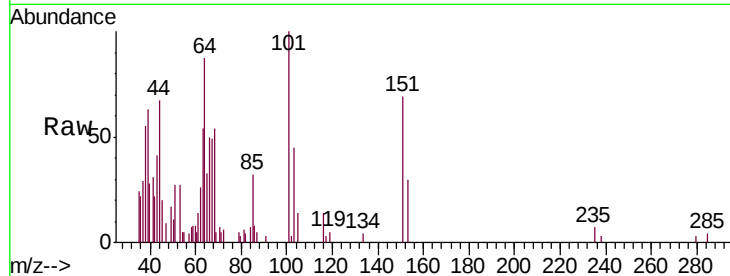
SV-5DUP

Tgt Ion: 101 Resp: 4322

Ion Ratio Lower Upper

101 100

151 131.0 51.8 77.8#



#13

Ethanol

Concen: 41.866 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL034209.D

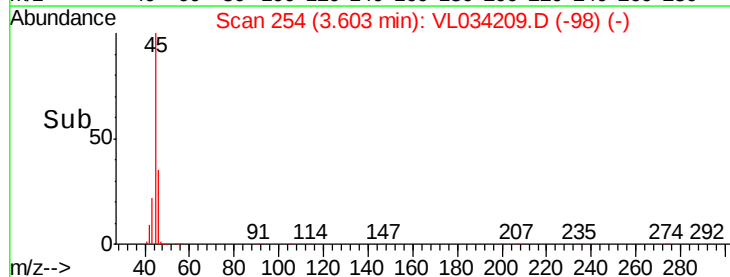
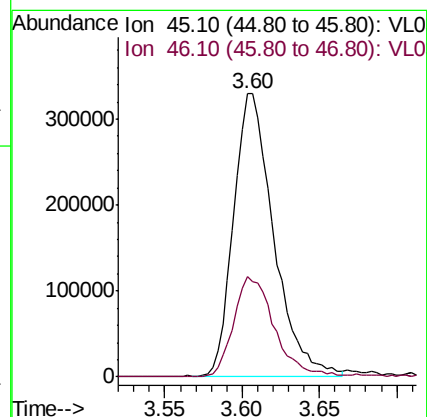
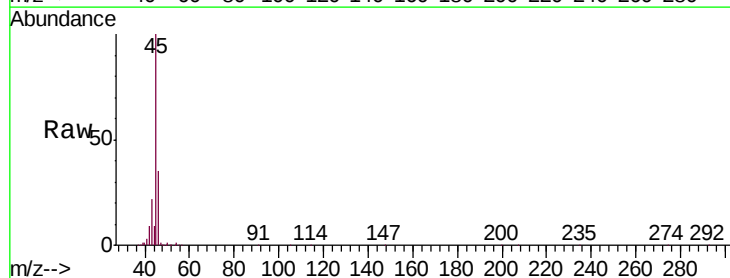
Acq: 2 Oct 2019 13:53

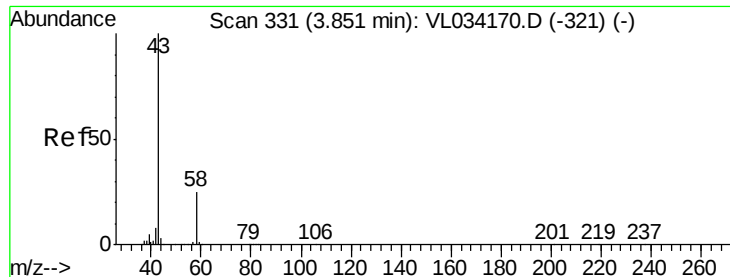
Tgt Ion: 45 Resp: 592332

Ion Ratio Lower Upper

45 100

46 36.7 15.5 61.9





#15

Acetone

Concen: 52.807 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

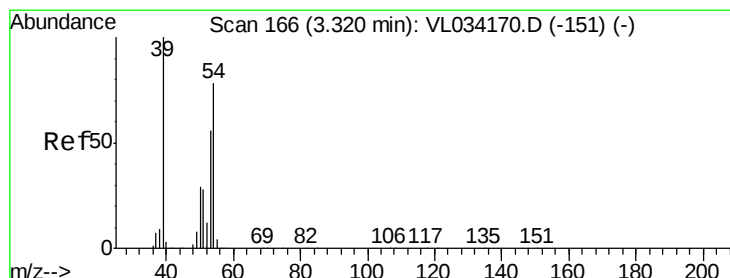
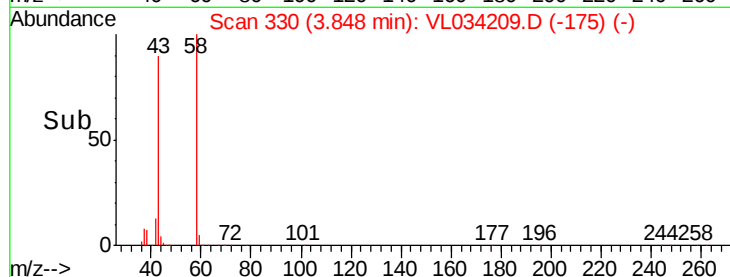
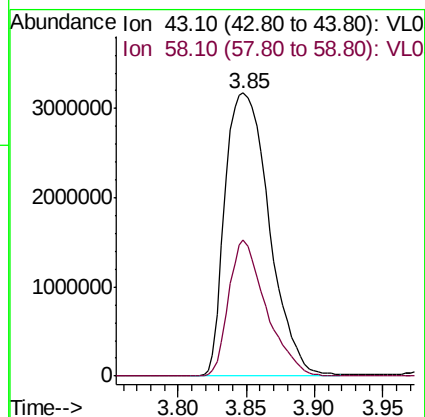
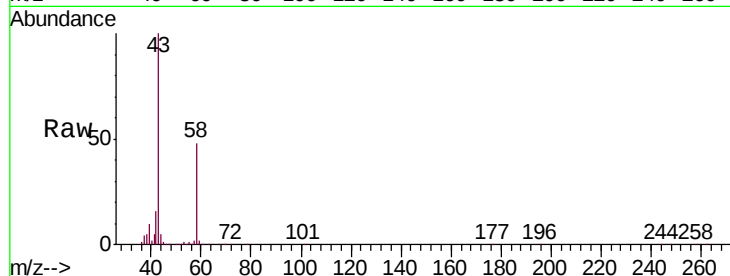
SV-5DUP

Tgt Ion: 43 Resp: 7148512

Ion Ratio Lower Upper

43 100

58 40.7 20.5 30.7#



#16

1,3-Butadiene

Concen: 67.874 ppbv

RT: 3.30 min Scan# 159

Delta R.T. -0.02 min

Lab File: VL034209.D

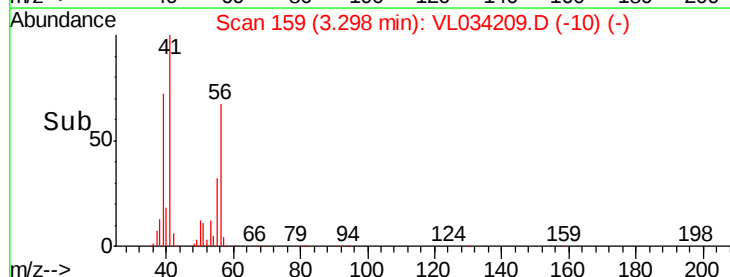
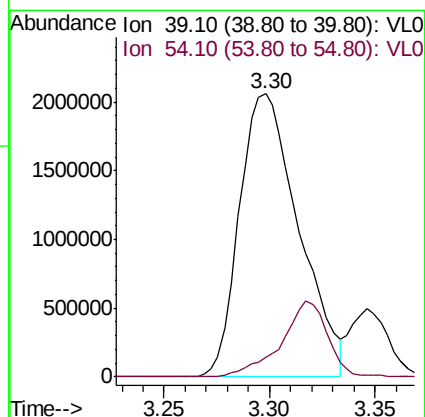
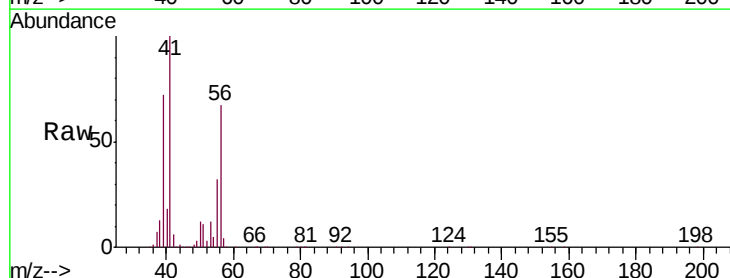
Acq: 2 Oct 2019 13:53

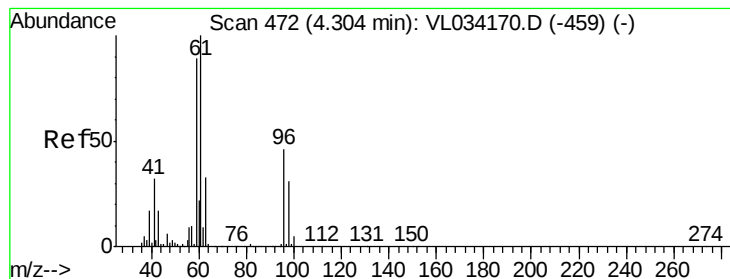
Tgt Ion: 39 Resp: 4009794

Ion Ratio Lower Upper

39 100

54 21.1 63.4 95.0#





#17

tert-Butyl alcohol

Concen: 13.208 ppbv

RT: 4.30 min Scan# 472

Delta R.T. 0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampled :

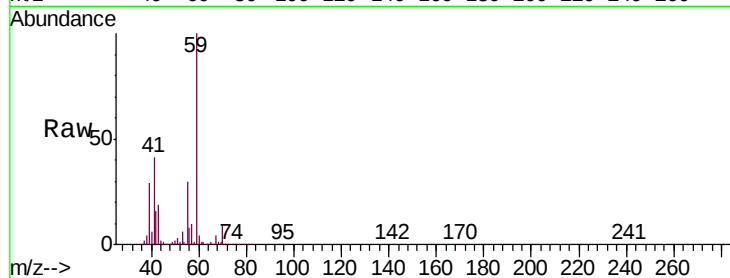
SV-5DUP

Tgt Ion: 59 Resp: 1132871

Ion Ratio Lower Upper

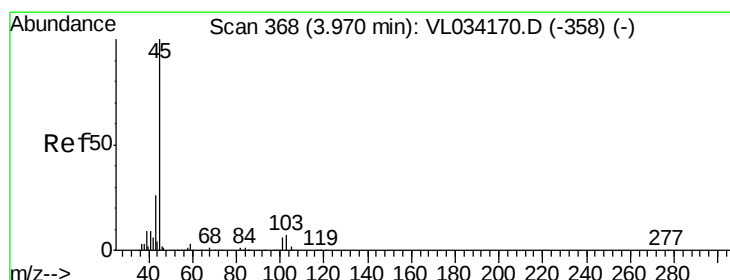
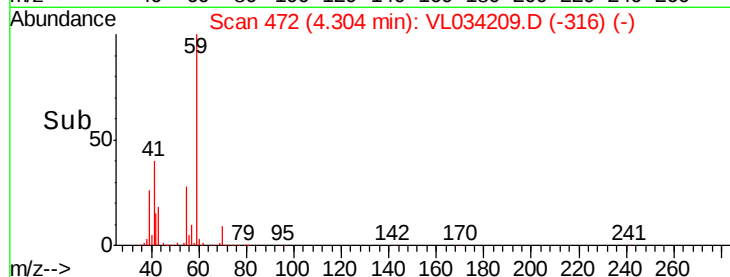
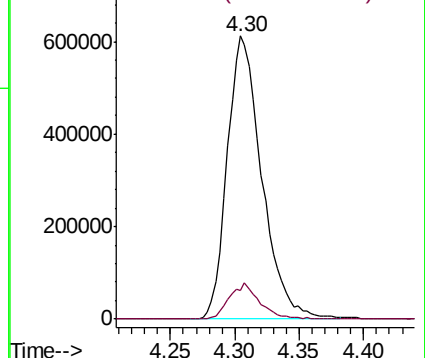
59 100

57 11.6 8.7 13.1



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 3.746 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL034209.D

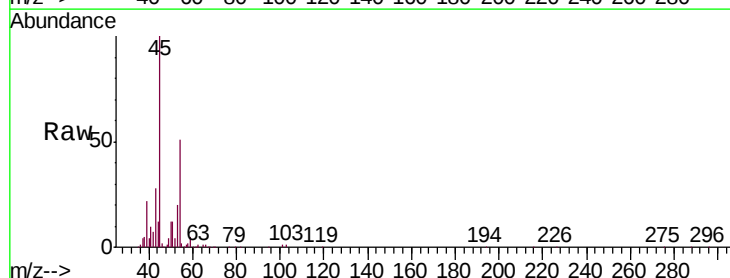
Acq: 2 Oct 2019 13:53

Tgt Ion: 45 Resp: 311840

Ion Ratio Lower Upper

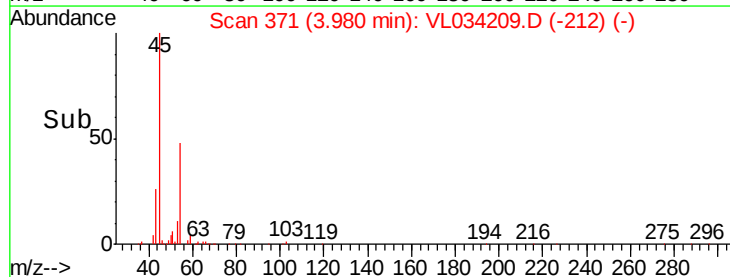
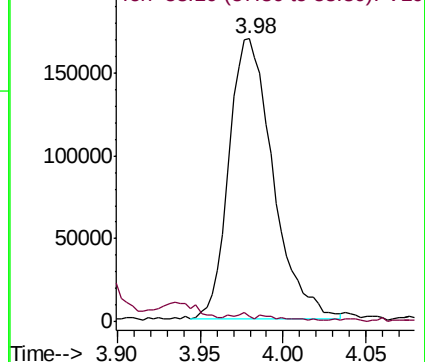
45 100

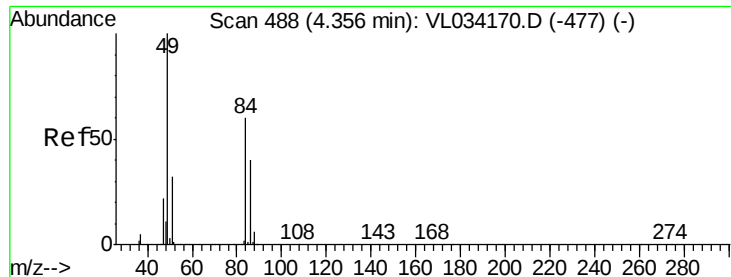
58 0.0 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

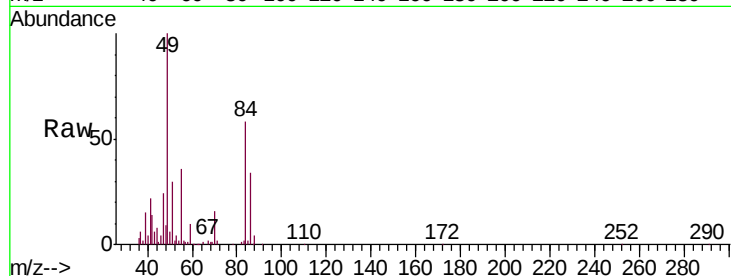




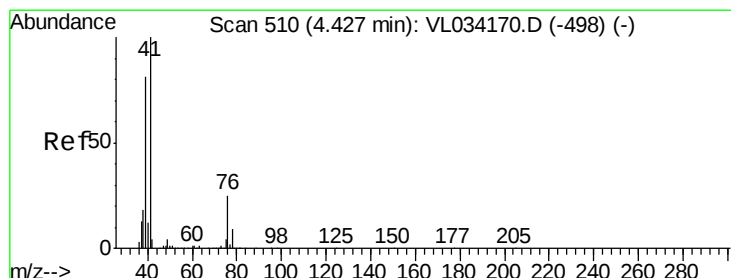
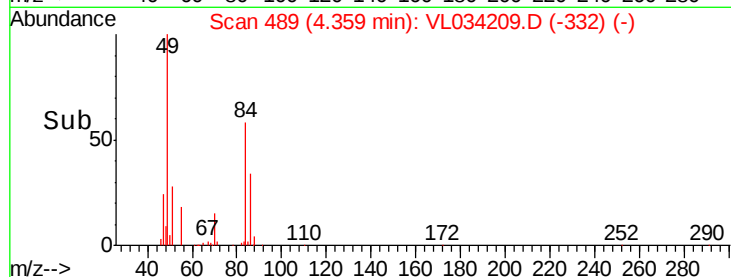
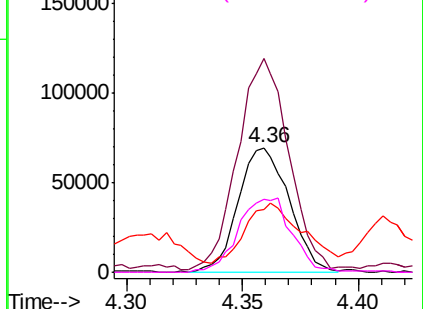
#20
Methylene Chloride
Concen: 2.702 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.00 min
Lab File: VL034209.D
Acq: 2 Oct 2019 13:53

Instrument :
MSVOA_L
ClientSampleId :
SV-5DUP

Tgt Ion: 84 Resp: 105474
Ion Ratio Lower Upper
84 100
49 170.6 133.8 200.8
51 38.8 43.6 65.4#
86 58.8 53.1 79.7

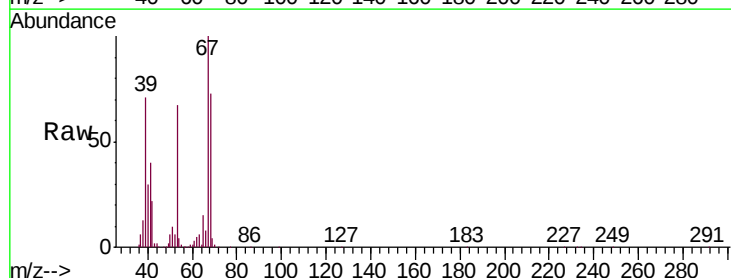


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

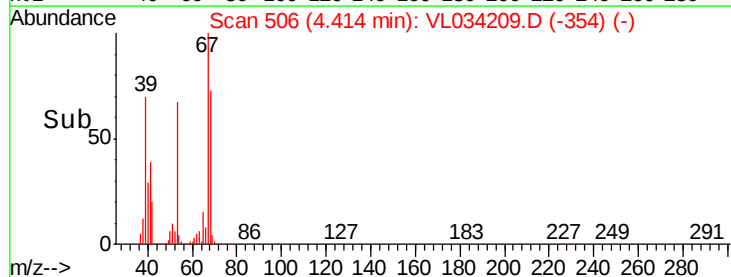
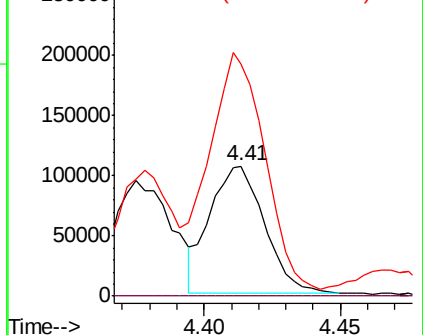


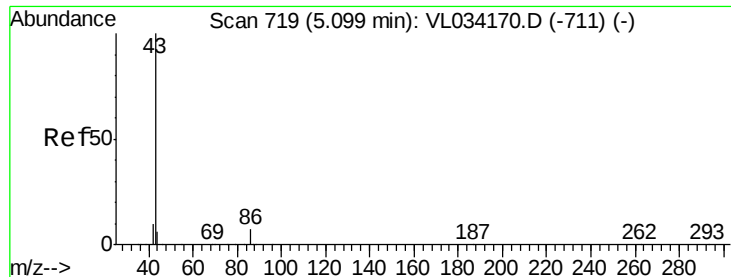
#21
Allyl Chloride
Concen: 1.939 ppbv
RT: 4.41 min Scan# 506
Delta R.T. -0.01 min
Lab File: VL034209.D
Acq: 2 Oct 2019 13:53

Tgt Ion: 41 Resp: 148292
Ion Ratio Lower Upper
41 100
76 0.0 21.8 32.6#
39 271.8 64.8 97.2#



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: 2.148 ppbv

RT: 5.09 min Scan# 716

Delta R.T. -0.01 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

SV-5DUP

Tgt Ion: 43 Resp: 428544

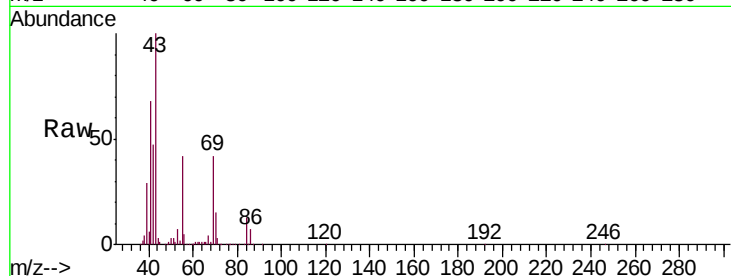
Ion Ratio Lower Upper

43 100

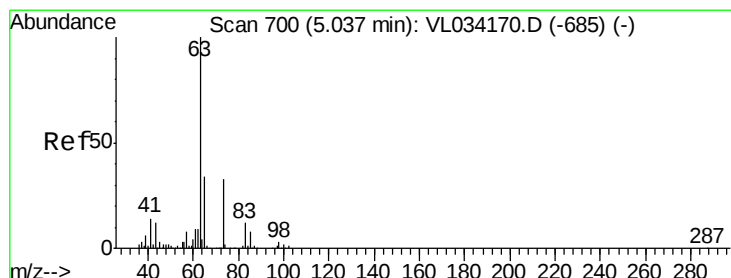
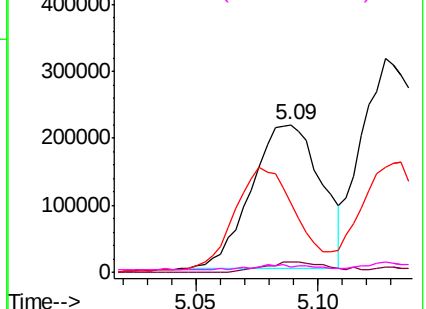
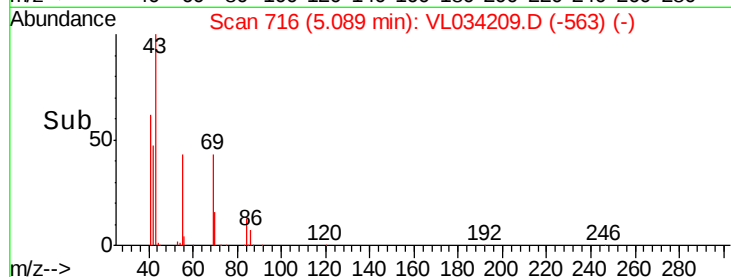
86 6.5 5.1 7.7

42 45.0 8.6 12.8#

44 1.3 4.7 7.1#



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: 0.166 ppbv

RT: 5.16 min Scan# 737

Delta R.T. 0.12 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

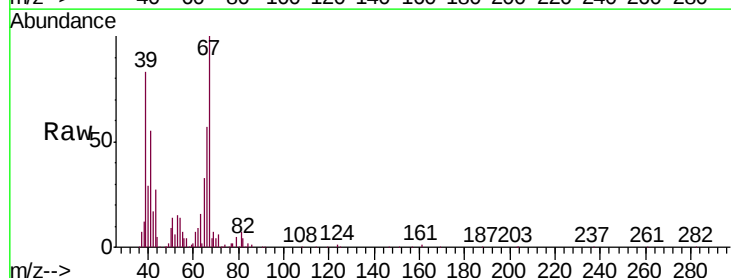
Tgt Ion: 63 Resp: 22330

Ion Ratio Lower Upper

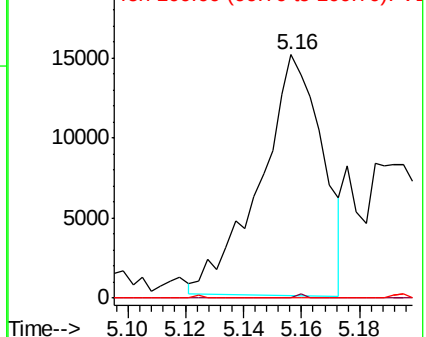
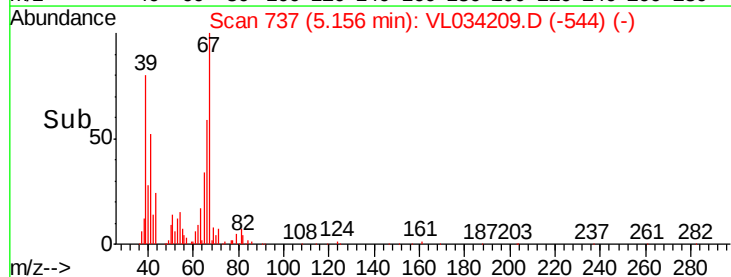
63 100

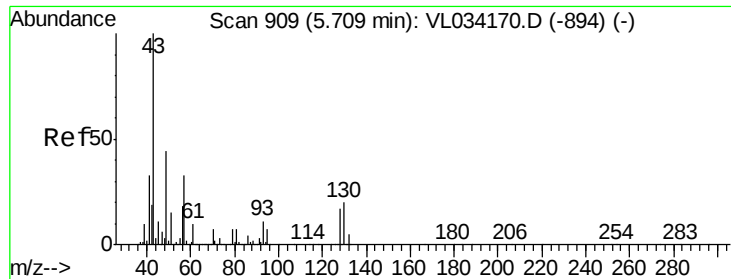
98 0.0 1.8 5.3#

100 0.0 1.0 3.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0

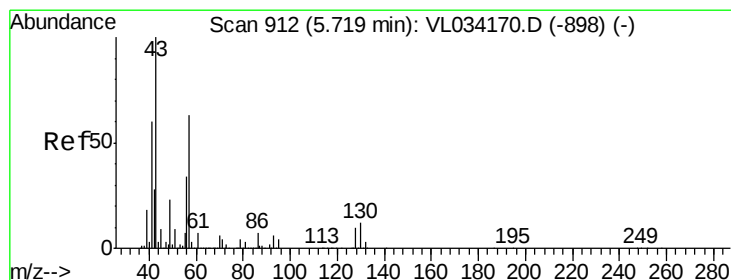
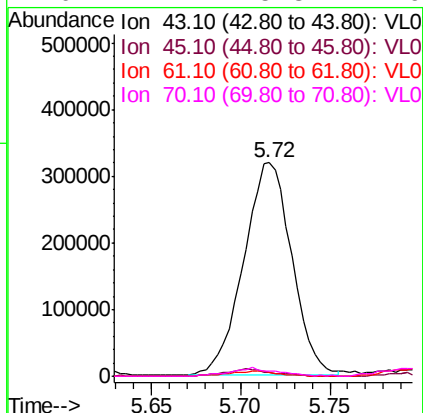
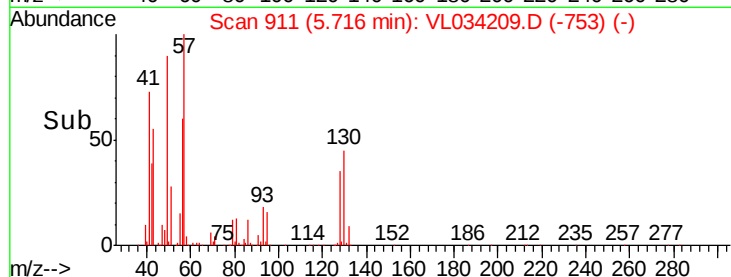
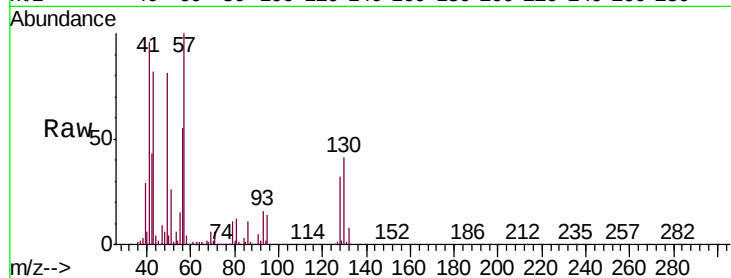




#25
Ethyl Acetate
Concen: 2.336 ppbv
RT: 5.72 min Scan# 911
Delta R.T. 0.01 min
Lab File: VL034209.D
Acq: 2 Oct 2019 13:53

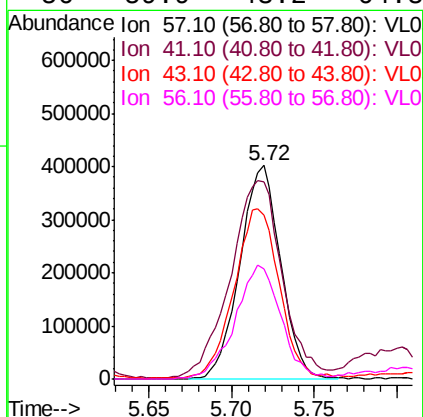
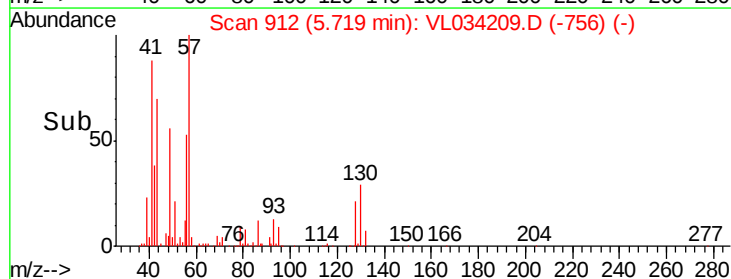
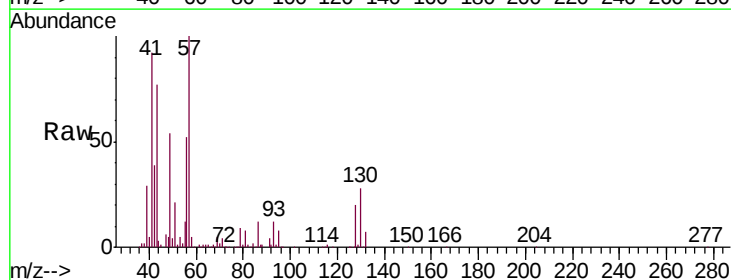
Instrument :
MSVOA_L
ClientSampleId :
SV-5DUP

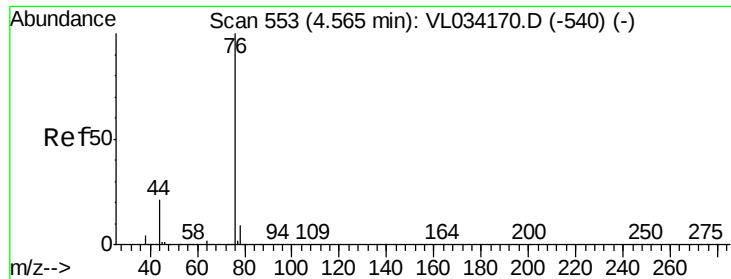
Tgt Ion:	43	Resp:	597857
Ion	Ratio	Lower	Upper
43	100		
45	3.3	8.4	12.6#
61	2.6	7.2	10.8#
70	4.1	5.3	7.9#



#26
Hexane
Concen: 6.432 ppbv
RT: 5.72 min Scan# 912
Delta R.T. 0.00 min
Lab File: VL034209.D
Acq: 2 Oct 2019 13:53

Tgt Ion:	57	Resp:	684932
Ion	Ratio	Lower	Upper
57	100		
41	118.0	78.5	117.7#
43	87.8	189.5	284.3#
56	59.9	43.2	64.8





#27

Carbon Disulfide

Concen: 10.476 ppbv

RT: 4.56 min Scan# 552

Delta R.T. -0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

SV-5DUP

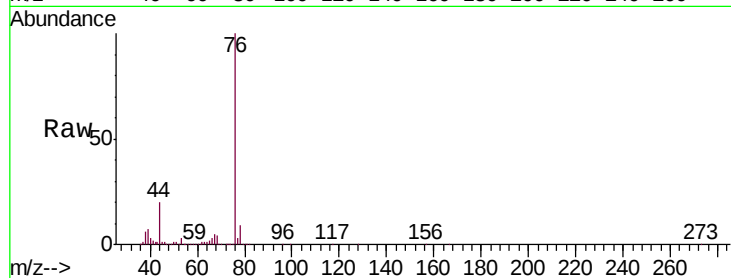
Tgt Ion: 76 Resp: 1028828

Ion	Ratio	Lower	Upper
76	100		
44	20.8	17.6	26.4
78	9.4	7.6	11.4

76 100

44 20.8 17.6 26.4

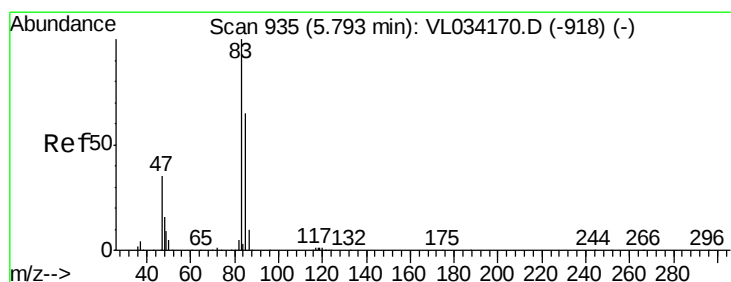
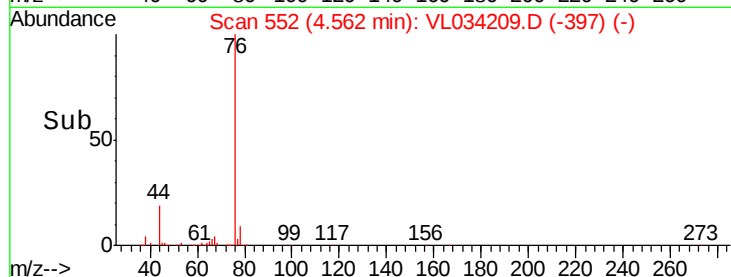
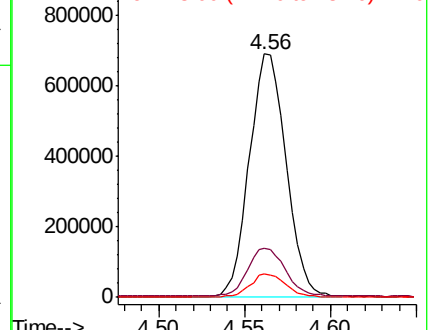
78 9.4 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#29

Chloroform

Concen: 12.523 ppbv

RT: 5.79 min Scan# 934

Delta R.T. -0.00 min

Lab File: VL034209.D

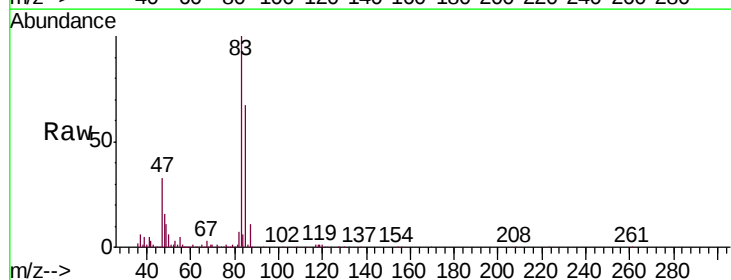
Acq: 2 Oct 2019 13:53

Tgt Ion: 83 Resp: 1905555

Ion	Ratio	Lower	Upper
83	100		
85	67.1	52.3	78.5

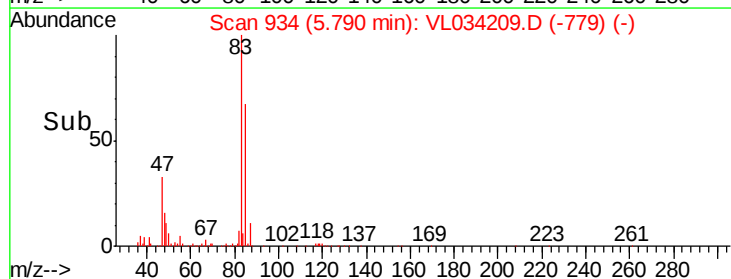
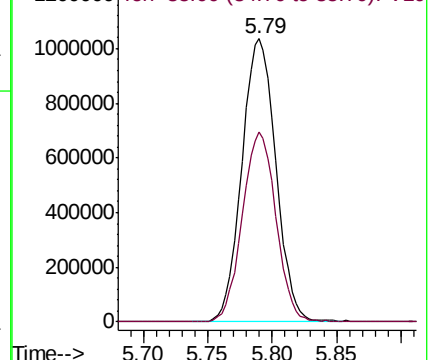
83 100

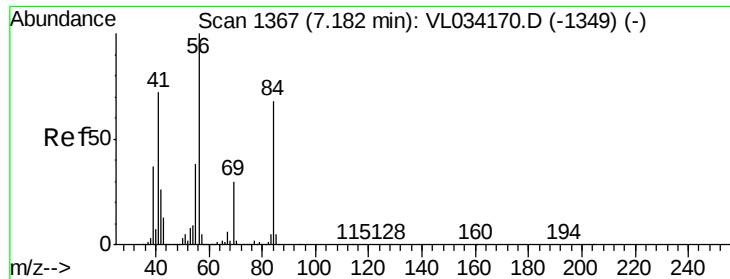
85 67.1 52.3 78.5



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

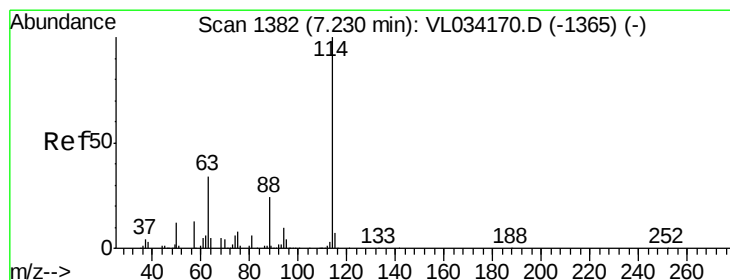
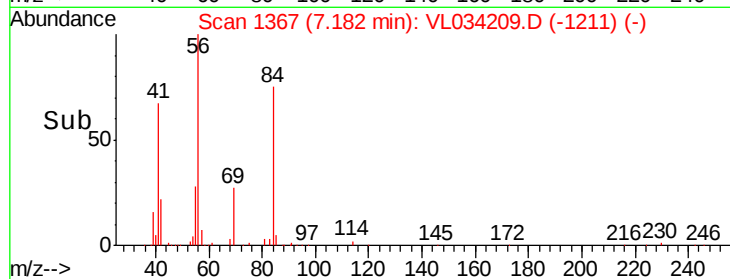
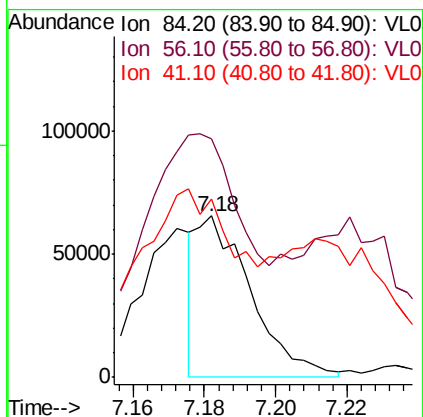
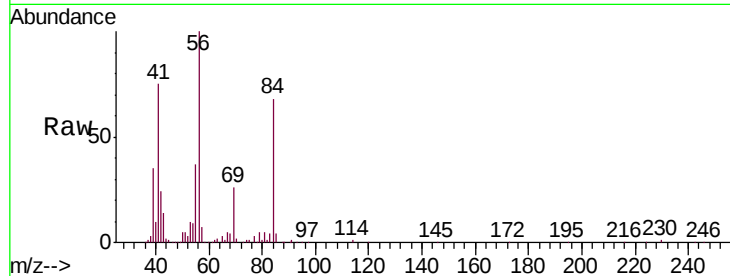




#30
Cyclohexane
Concen: 0.891 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. 0.00 min
Lab File: VL034209.D
Acq: 2 Oct 2019 13:53

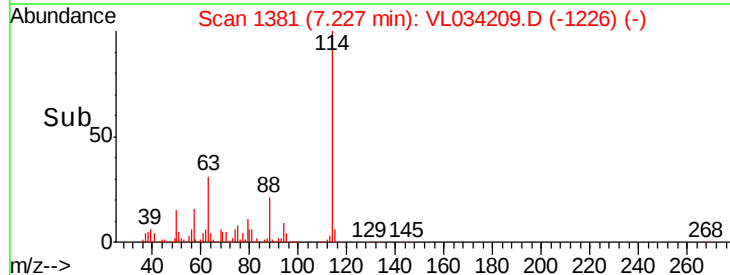
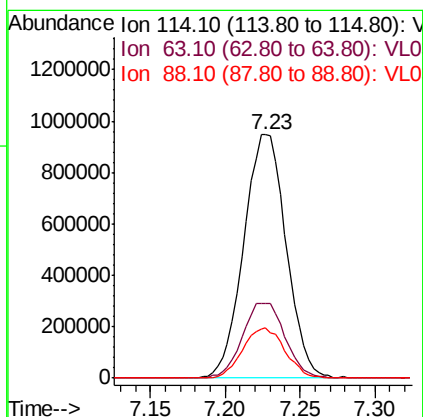
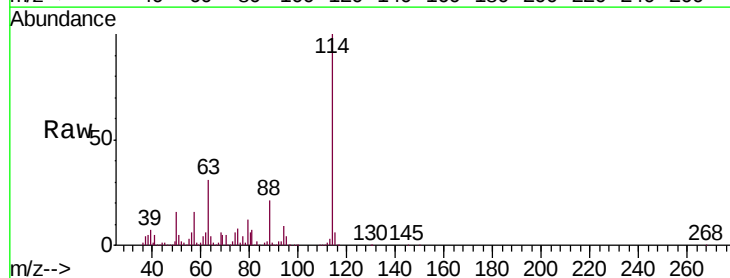
Instrument :
MSVOA_L
ClientSampleId :
SV-5DUP

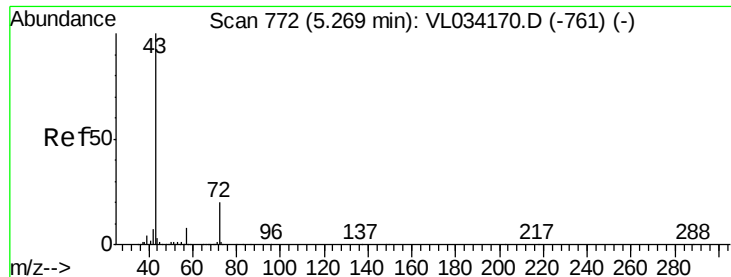
Tgt Ion: 84 Resp: 68528
Ion Ratio Lower Upper
84 100
56 306.4 126.2 189.2#
41 380.5 85.8 128.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.23 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VL034209.D
Acq: 2 Oct 2019 13:53

Tgt Ion: 114 Resp: 1871639
Ion Ratio Lower Upper
114 100
63 30.8 27.8 41.6
88 20.6 17.1 25.7

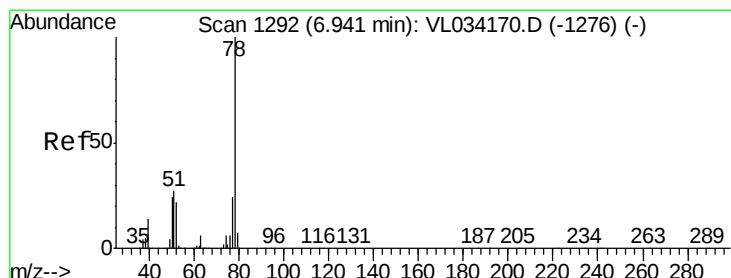
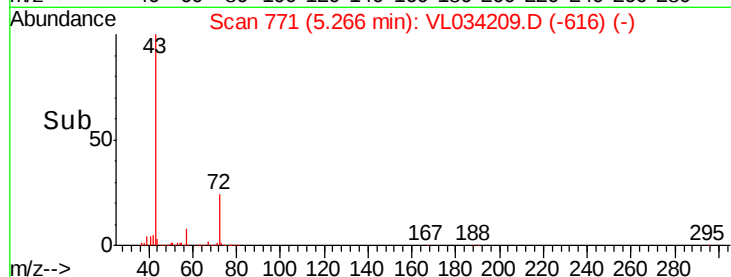
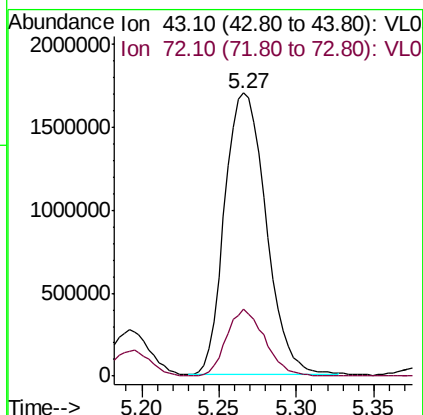
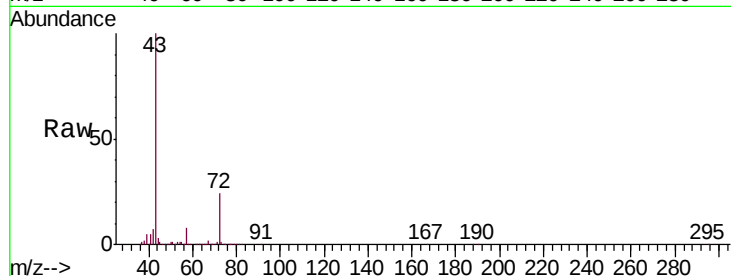




#34
2-Butanone
Concen: 16.559 ppbv
RT: 5.27 min Scan# 771
Delta R.T. -0.00 min
Lab File: VL034209.D
Acq: 2 Oct 2019 13:53

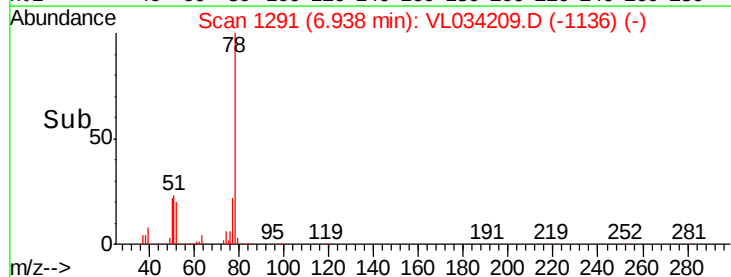
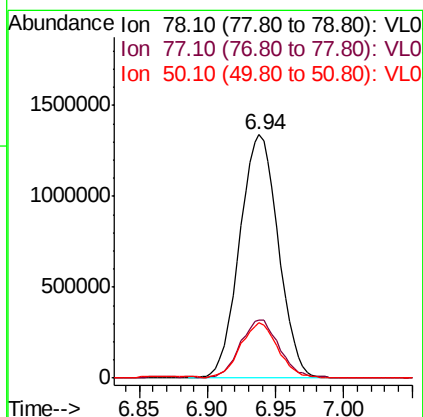
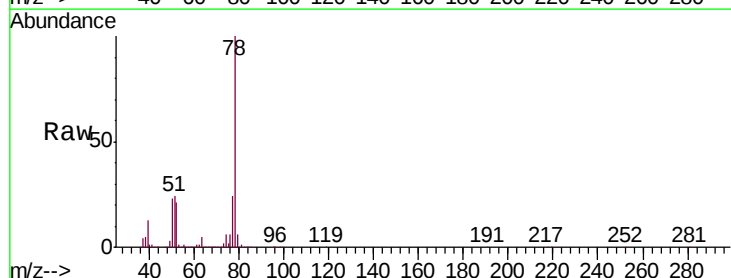
Instrument :
MSVOA_L
ClientSampleId :
SV-5DUP

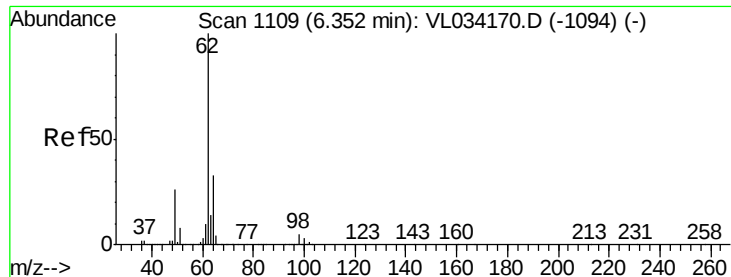
Tgt Ion: 43 Resp: 3164562
Ion Ratio Lower Upper
43 100
72 21.9 15.0 22.6



#36
Benzene
Concen: 12.713 ppbv
RT: 6.94 min Scan# 1291
Delta R.T. -0.00 min
Lab File: VL034209.D
Acq: 2 Oct 2019 13:53

Tgt Ion: 78 Resp: 2627914
Ion Ratio Lower Upper
78 100
77 23.7 19.0 28.4
50 22.9 18.9 28.3





#37

1,2-Dichloroethane

Concen: 0.112 ppbv

RT: 6.35 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

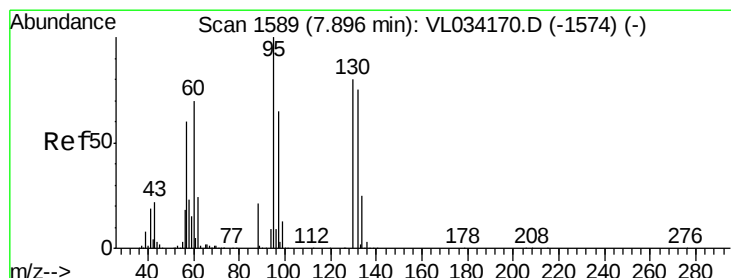
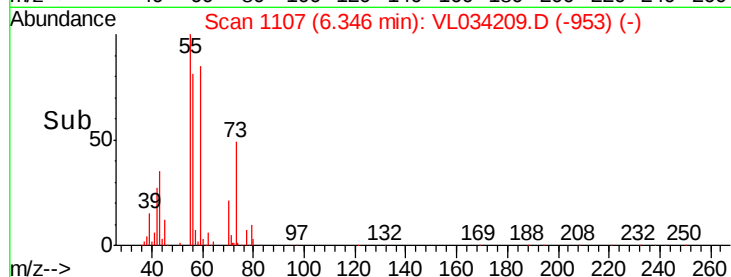
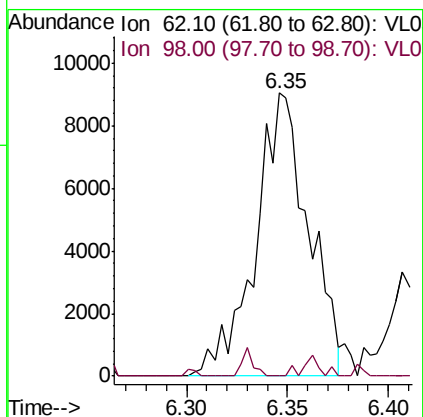
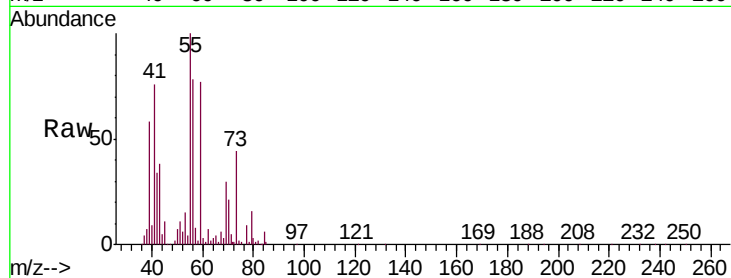
SV-5DUP

Tgt Ion: 62 Resp: 16496

Ion Ratio Lower Upper

62 100

98 5.0 3.8 5.8



#38

Trichloroethene

Concen: 0.175 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. -0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Tgt Ion: 130 Resp: 12950

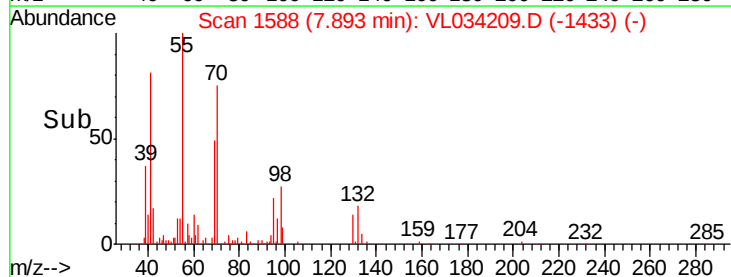
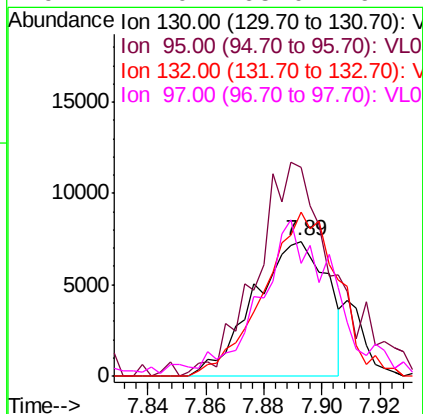
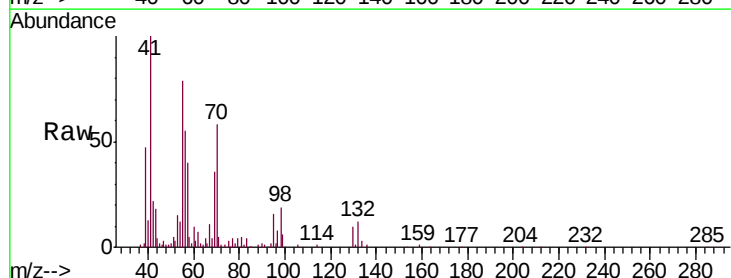
Ion Ratio Lower Upper

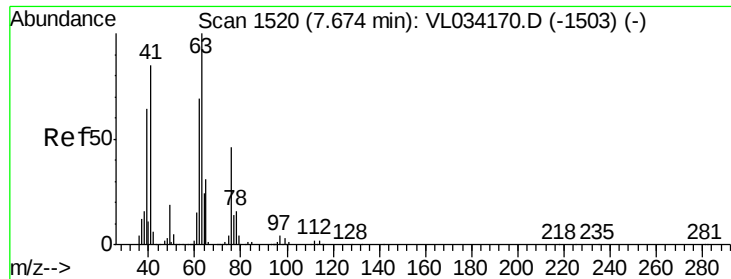
130 100

95 152.8 99.8 149.6#

132 122.0 75.2 112.8#

97 77.0 65.0 97.4

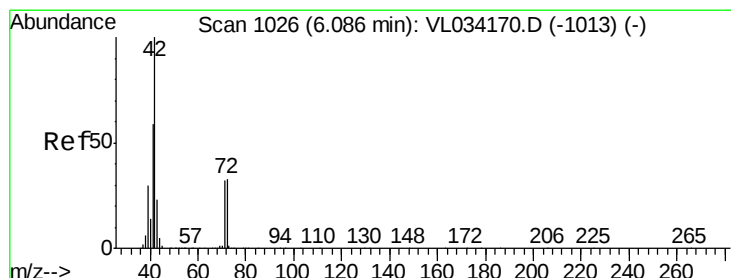
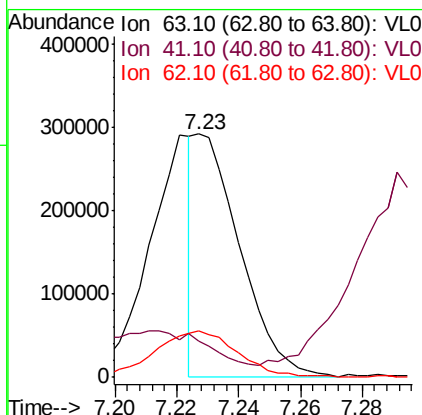
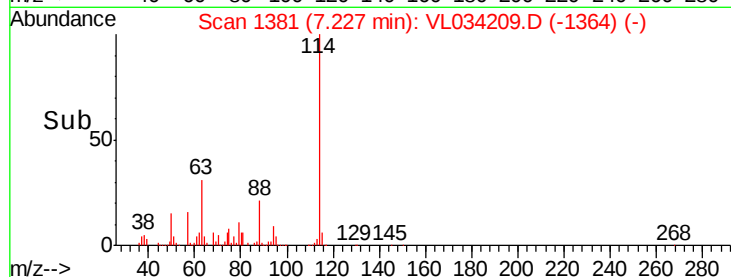
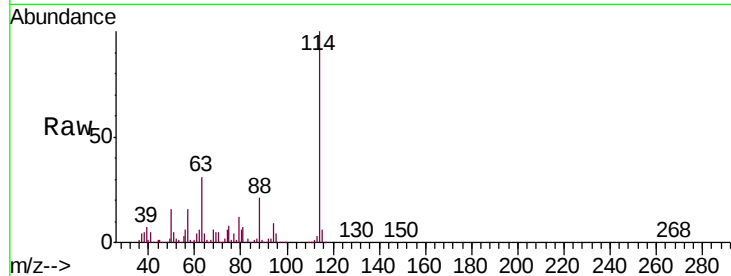




#39
 1,2-Dichloropropane
 Concen: 3.163 ppbv
 RT: 7.23 min Scan# 1381
 Delta R.T. -0.45 min
 Lab File: VL034209.D
 Acq: 2 Oct 2019 13:53

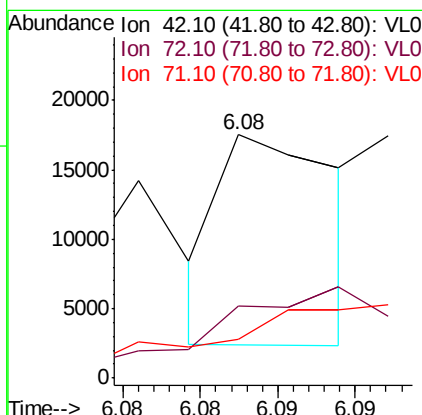
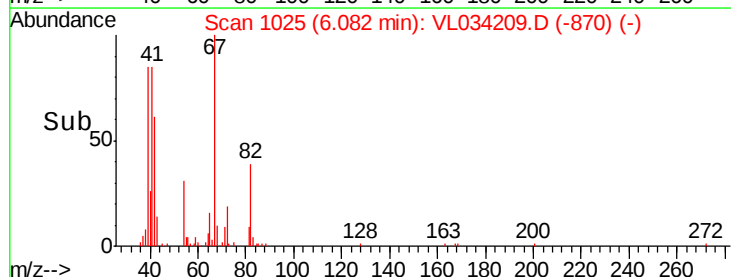
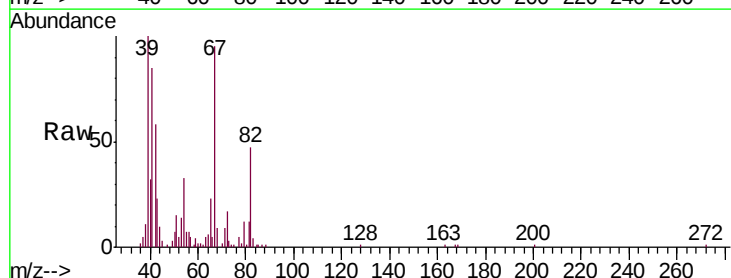
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-5DUP

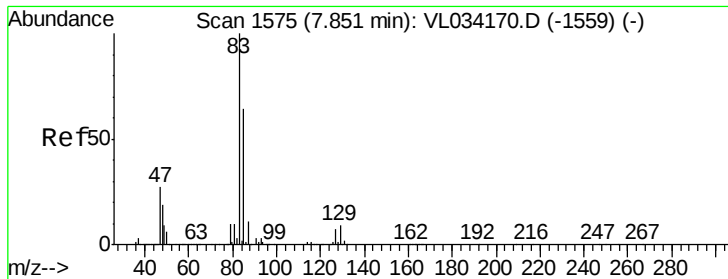
Tgt Ion: 63 Resp: 293734
 Ion Ratio Lower Upper
 63 100
 41 0.0 68.4 102.6#
 62 18.8 55.4 83.2#



#41
 Tetrahydrofuran
 Concen: 0.075 ppbv
 RT: 6.08 min Scan# 1025
 Delta R.T. -0.00 min
 Lab File: VL034209.D
 Acq: 2 Oct 2019 13:53

Tgt Ion: 42 Resp: 8025
 Ion Ratio Lower Upper
 42 100
 72 0.0 26.6 40.0#
 71 0.0 25.1 37.7#





#42

Bromodichloromethane

Concen: 0.115 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

SV-5DUP

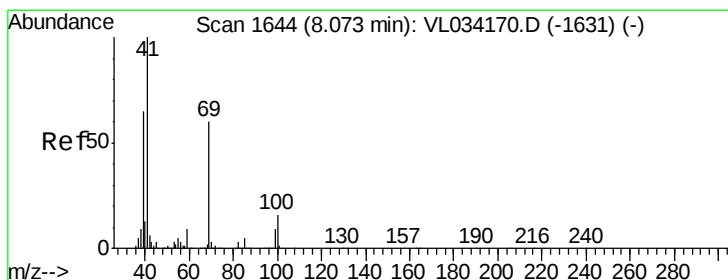
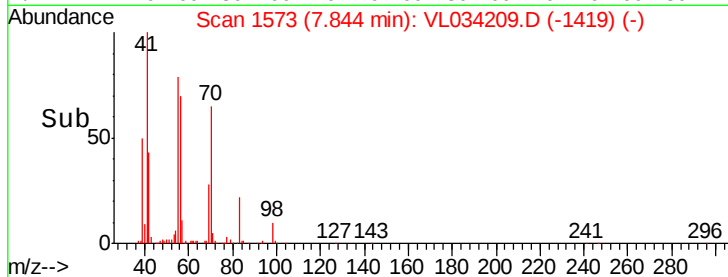
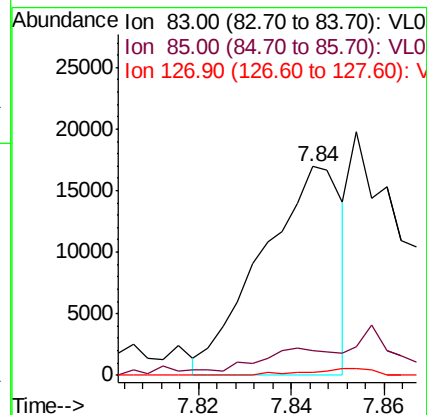
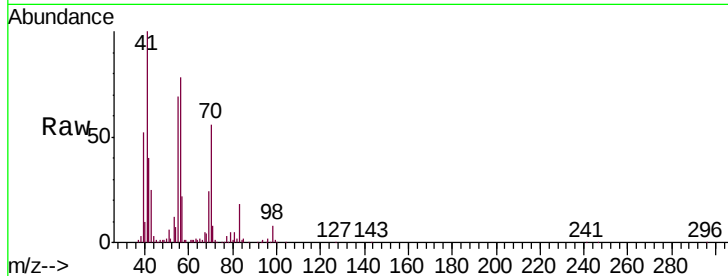
Tgt Ion: 83 Resp: 20339

Ion Ratio Lower Upper

83 100

85 9.6 51.4 77.0#

127 1.9 5.5 8.3#



#43

Methyl Methacrylate

Concen: 0.730 ppbv

RT: 8.07 min Scan# 1643

Delta R.T. -0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

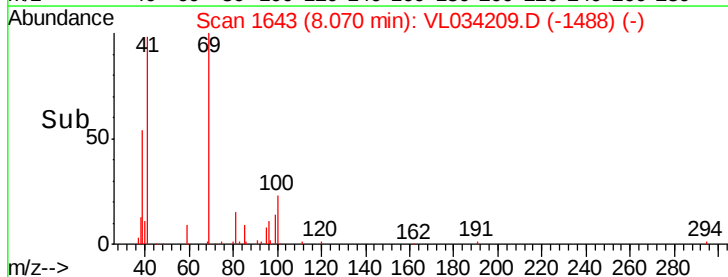
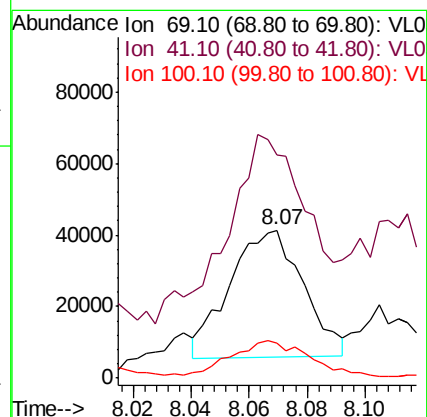
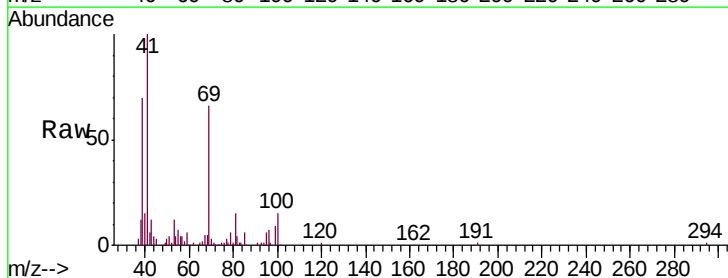
Tgt Ion: 69 Resp: 62364

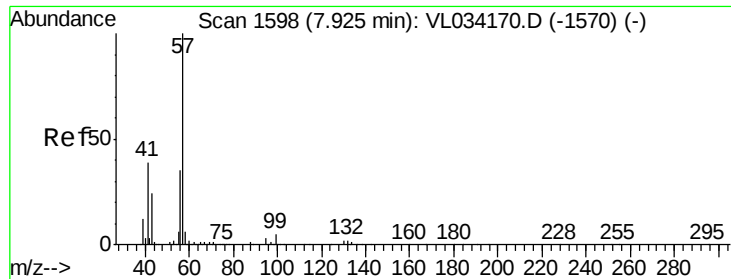
Ion Ratio Lower Upper

69 100

41 320.9 140.4 210.6#

100 33.7 21.9 32.9#





#44

2,2,4-Trimethylpentane

Concen: 0.951 ppbv

RT: 7.92 min Scan# 1596

Delta R.T. -0.01 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampled :

SV-5DUP

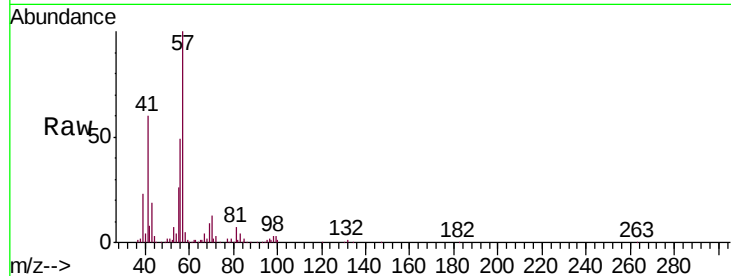
Tgt Ion: 57 Resp: 378621

Ion Ratio Lower Upper

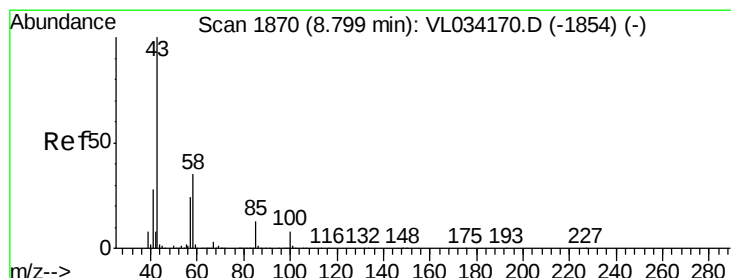
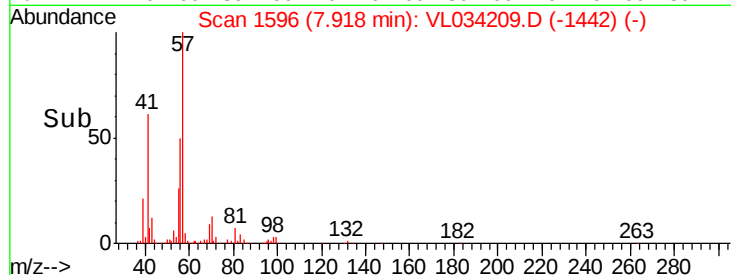
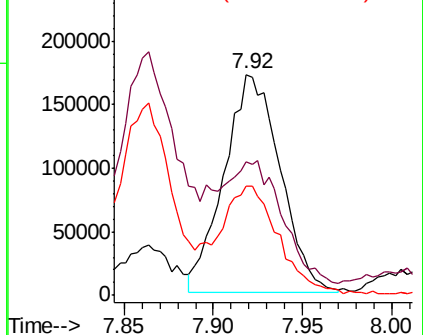
57 100

41 73.5 29.8 44.6#

56 50.7 25.9 38.9#



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



#50

4-Methyl-2-Pentanone

Concen: 0.824 ppbv

RT: 8.80 min Scan# 1870

Delta R.T. 0.00 min

Lab File: VL034209.D

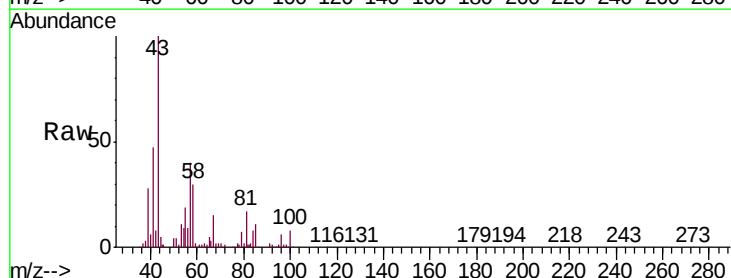
Acq: 2 Oct 2019 13:53

Tgt Ion: 43 Resp: 229089

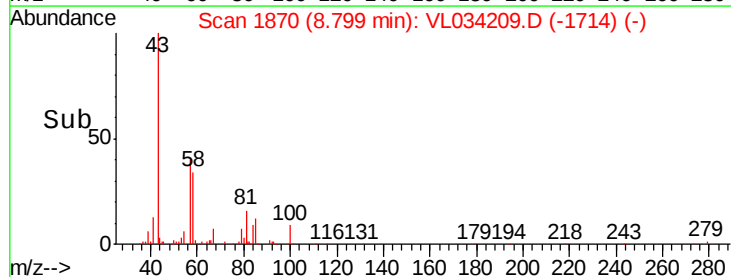
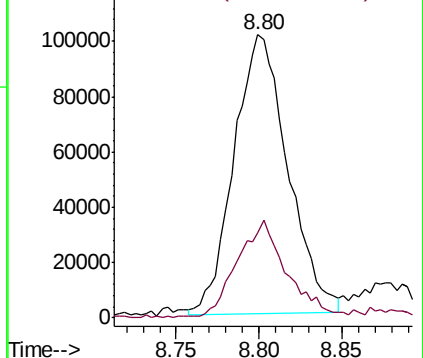
Ion Ratio Lower Upper

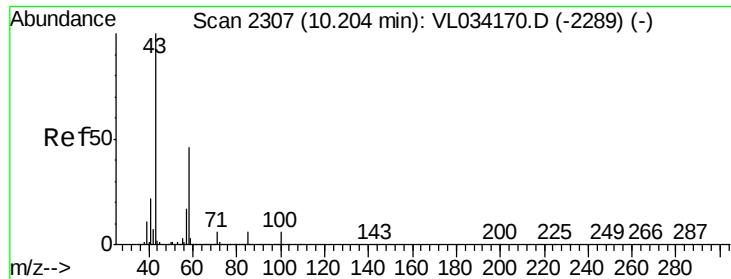
43 100

58 33.1 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0

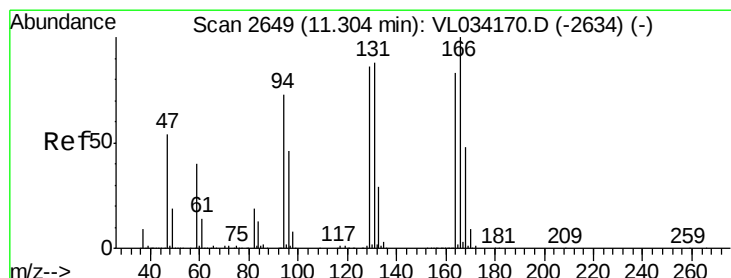
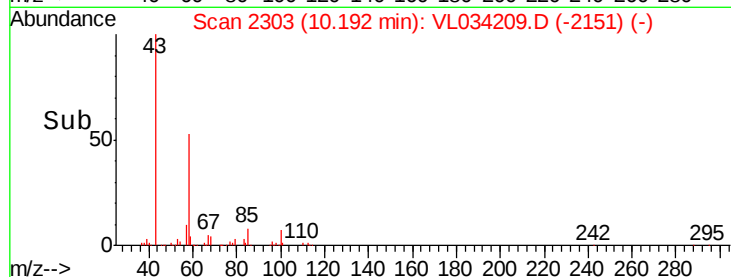
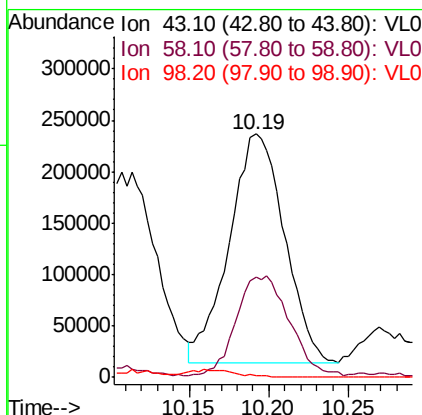
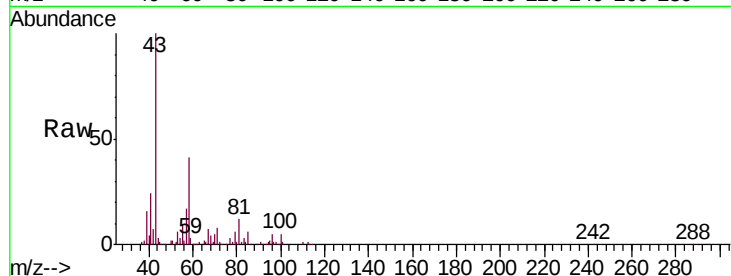




#51
2-Hexanone
Concen: 2.254 ppbv
RT: 10.19 min Scan# 2303
Delta R.T. -0.01 min
Lab File: VL034209.D
Acq: 2 Oct 2019 13:53

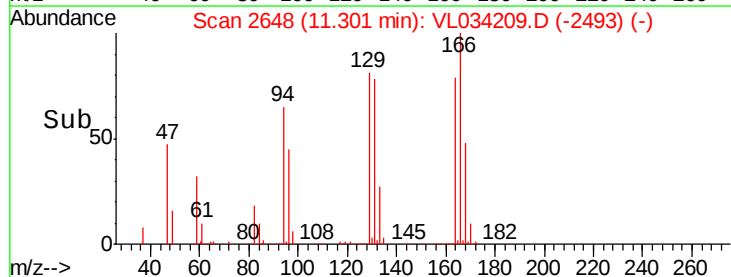
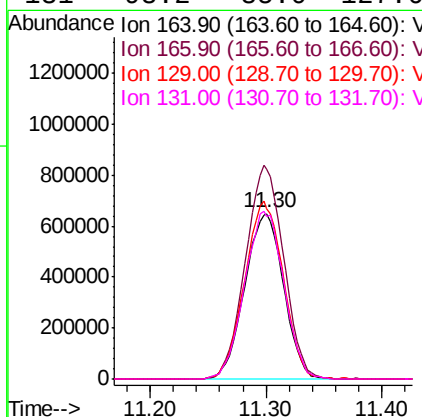
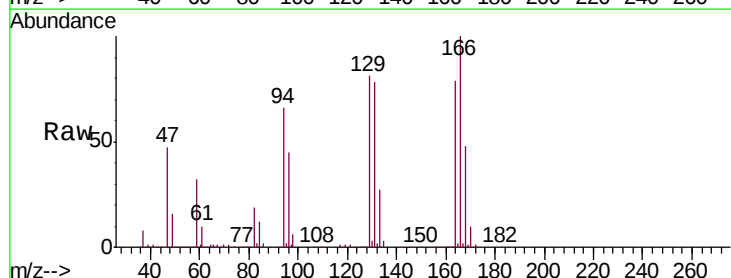
Instrument :
MSVOA_L
ClientSampleId :
SV-5DUP

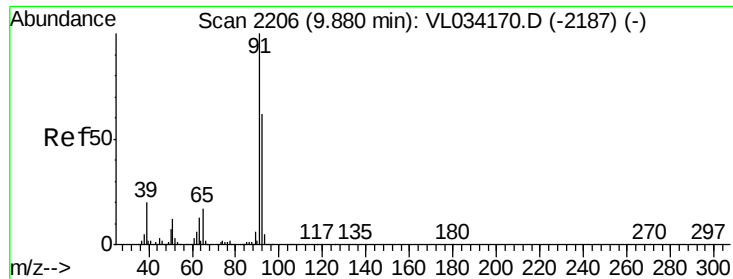
Tgt Ion: 43 Resp: 526115
Ion Ratio Lower Upper
43 100
58 44.5 36.2 54.4
98 2.8 0.2 0.2#



#52
Tetrachloroethene
Concen: 22.082 ppbv
RT: 11.30 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VL034209.D
Acq: 2 Oct 2019 13:53

Tgt Ion: 164 Resp: 1508061
Ion Ratio Lower Upper
164 100
166 126.5 96.7 145.1
129 103.0 82.8 124.2
131 98.2 85.0 127.6





#53

Toluene

Concen: 10.129 ppbv

RT: 9.87 min Scan# 2203

Delta R.T. -0.01 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

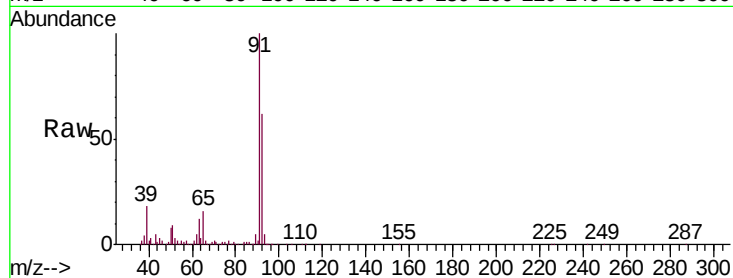
SV-5DUP

Tgt Ion: 91 Resp: 2288257

Ion Ratio Lower Upper

91 100

92 60.1 49.0 73.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

1200000

1000000

800000

600000

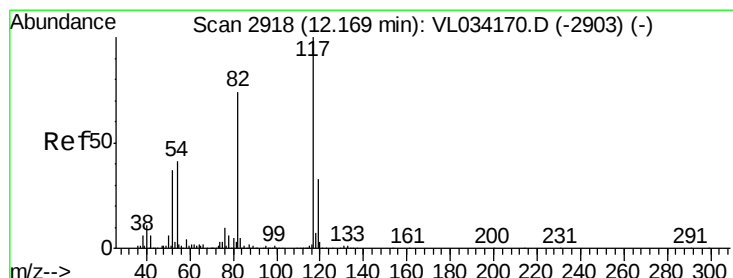
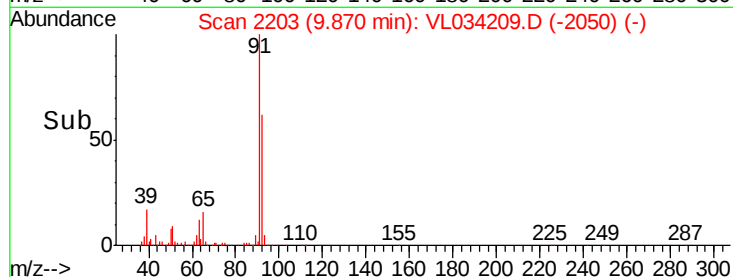
400000

200000

0

9.80 9.85 9.90 9.95

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.17 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

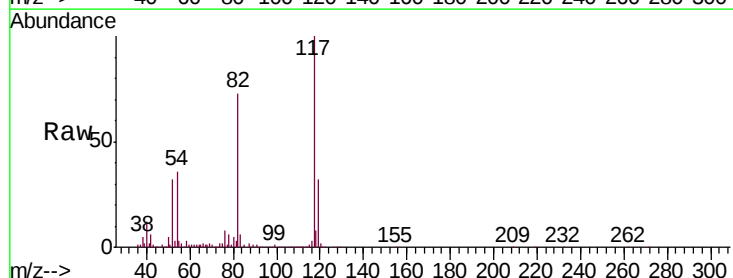
Tgt Ion: 117 Resp: 1870954

Ion Ratio Lower Upper

117 100

82 75.4 58.2 87.4

119 33.1 23.7 35.5



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

1000000

800000

600000

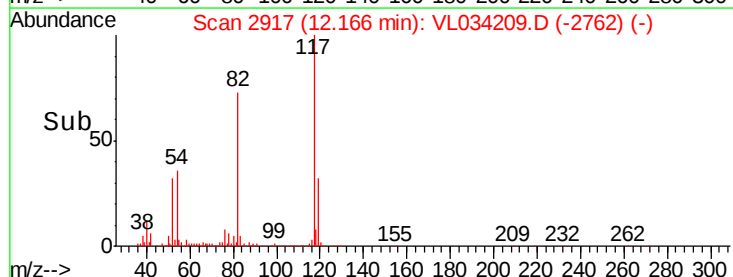
400000

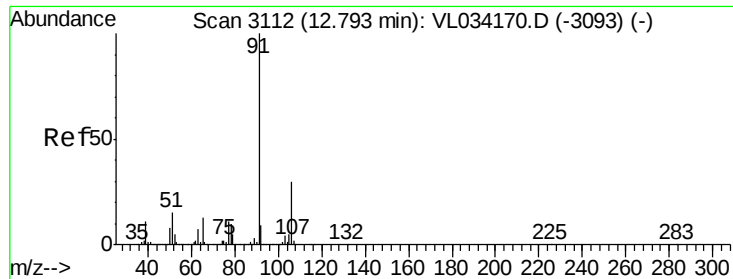
200000

0

12.05 12.10 12.15 12.20

Time-->





#58

Ethyl Benzene

Concen: 1.620 ppbv

RT: 12.79 min Scan# 3111

Delta R.T. -0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

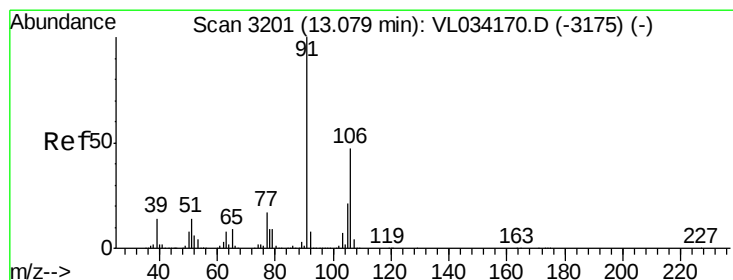
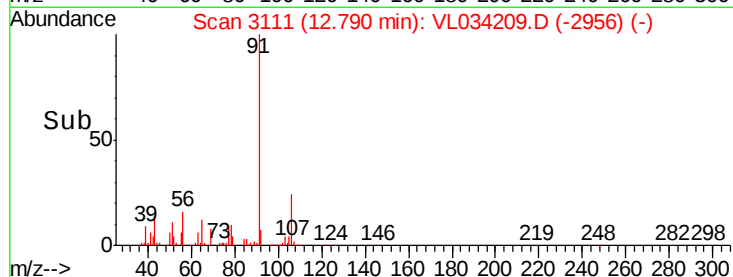
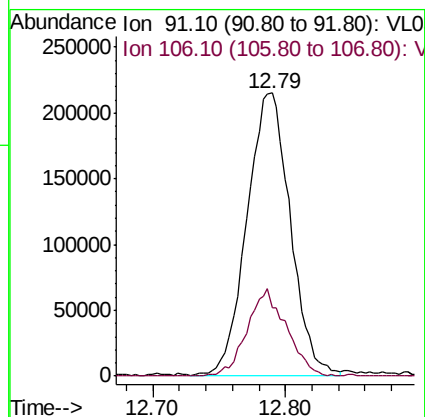
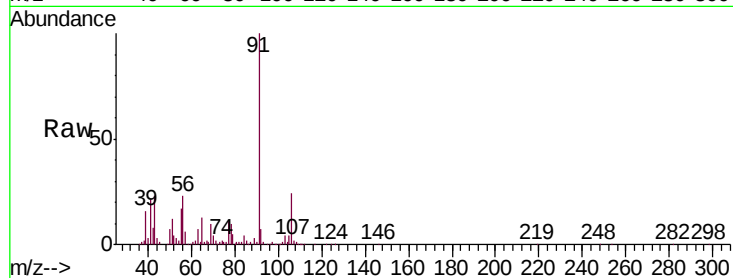
SV-5DUP

Tgt Ion: 91 Resp: 489069

Ion Ratio Lower Upper

91 100

106 24.1 24.2 36.4#



#59

m/p-Xylene

Concen: 4.348 ppbv

RT: 13.04 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VL034209.D

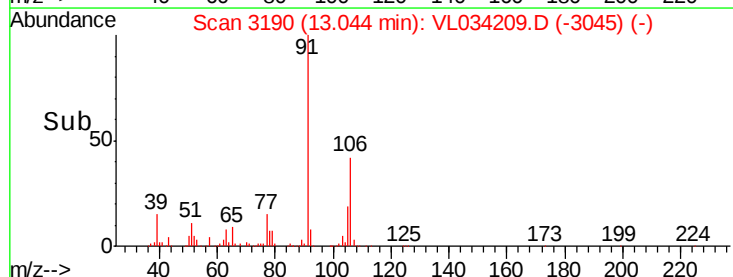
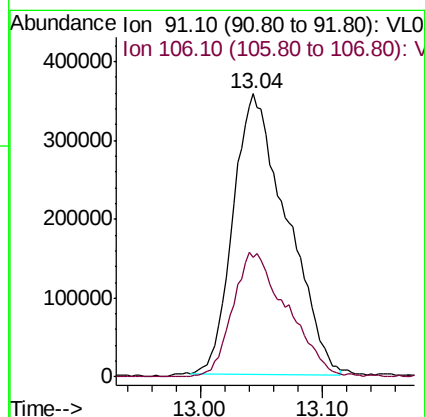
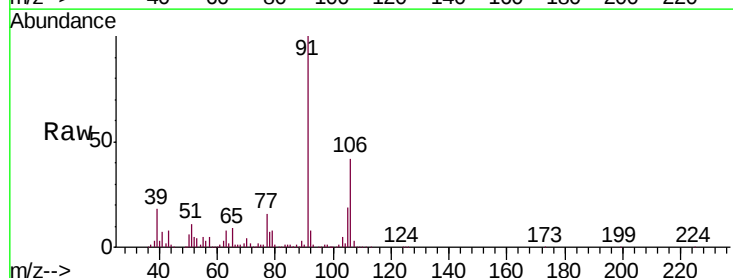
Acq: 2 Oct 2019 13:53

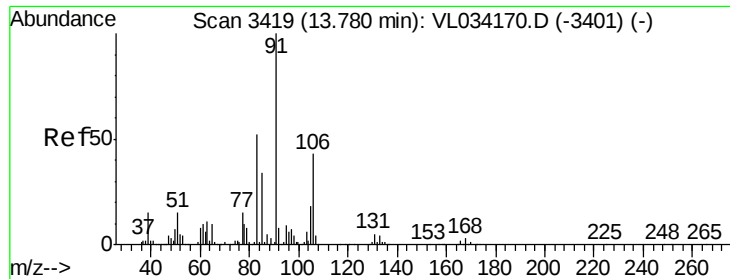
Tgt Ion: 91 Resp: 1087158

Ion Ratio Lower Upper

91 100

106 45.4 35.5 53.3

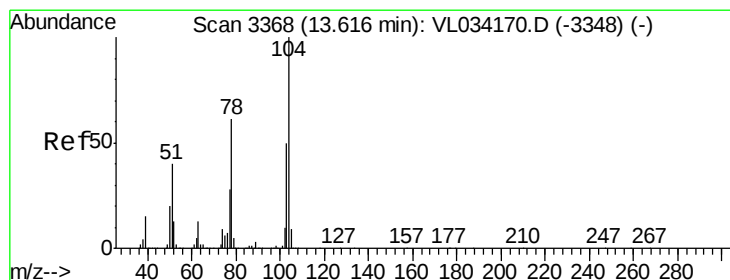
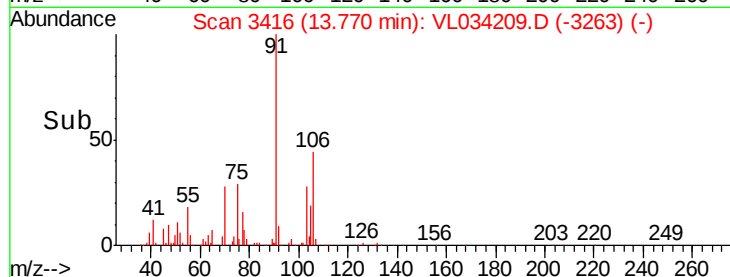
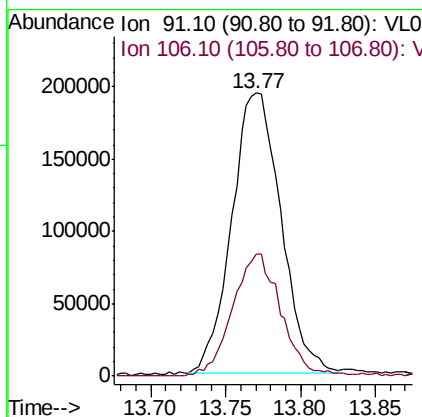
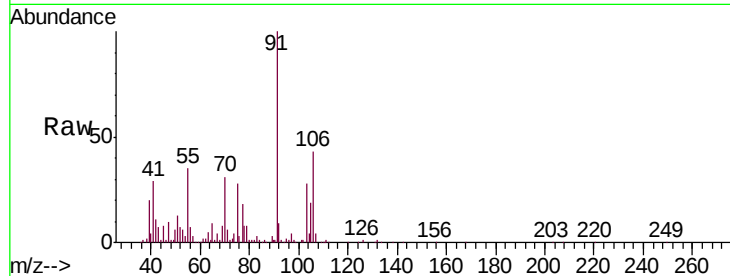




#60
o-Xylene
Concen: 1.786 ppbv
RT: 13.77 min Scan# 3416
Delta R.T. -0.01 min
Lab File: VL034209.D
Acq: 2 Oct 2019 13:53

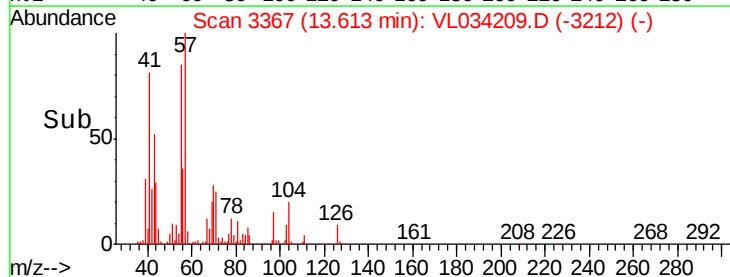
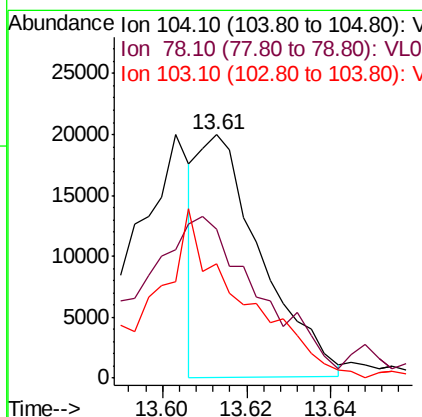
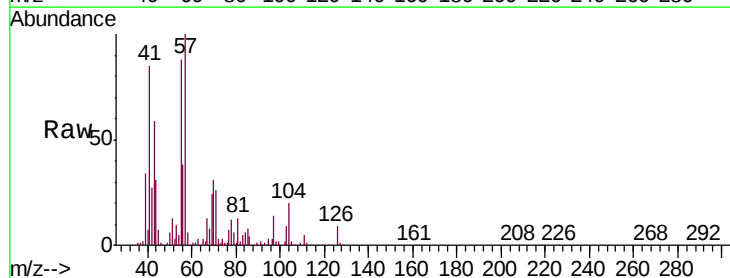
Instrument :
MSVOA_L
ClientSampleId :
SV-5DUP

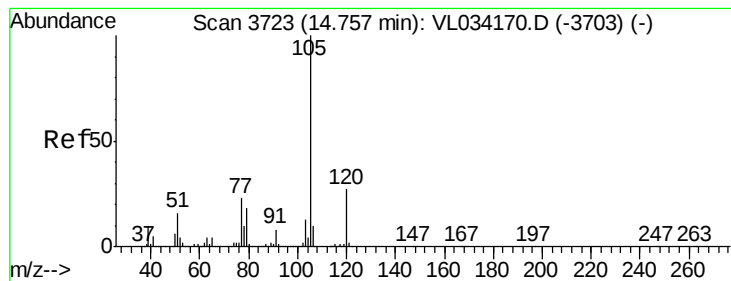
Tgt Ion: 91 Resp: 446603
Ion Ratio Lower Upper
91 100
106 42.9 21.2 63.6



#61
Styrene
Concen: 0.115 ppbv
RT: 13.61 min Scan# 3367
Delta R.T. -0.00 min
Lab File: VL034209.D
Acq: 2 Oct 2019 13:53

Tgt Ion: 104 Resp: 20639
Ion Ratio Lower Upper
104 100
78 154.3 49.7 74.5#
103 102.0 38.4 57.6#





#62

Isopropylbenzene

Concen: 0.072 ppbv

RT: 14.75 min Scan# 3722

Delta R.T. -0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

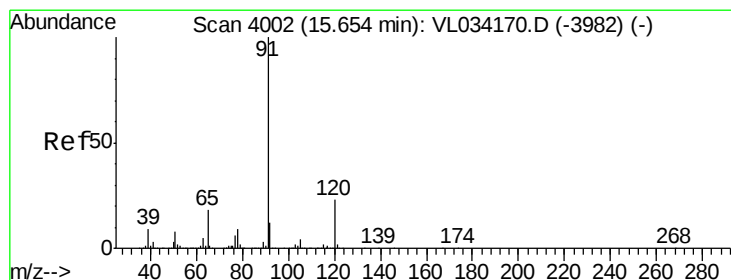
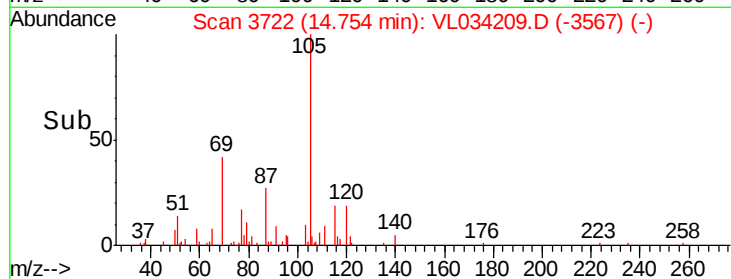
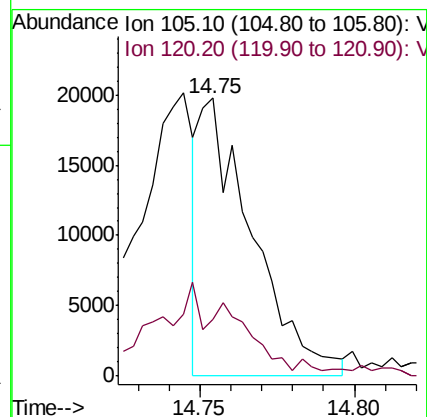
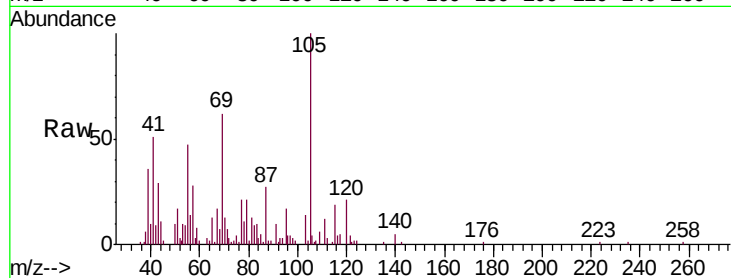
SV-5DUP

Tgt Ion:105 Resp: 23335

Ion Ratio Lower Upper

105 100

120 0.0 20.7 31.1#



#64

n-propylbenzene

Concen: 0.394 ppbv

RT: 15.64 min Scan# 3998

Delta R.T. -0.01 min

Lab File: VL034209.D

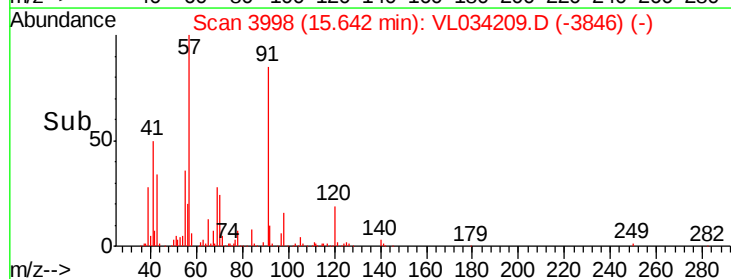
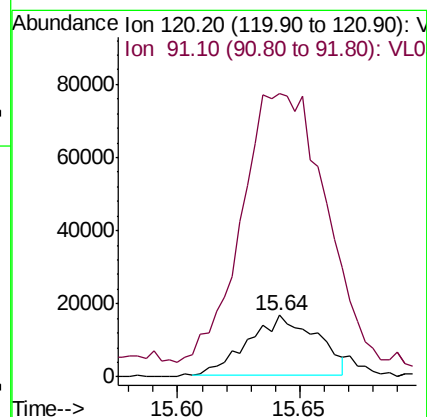
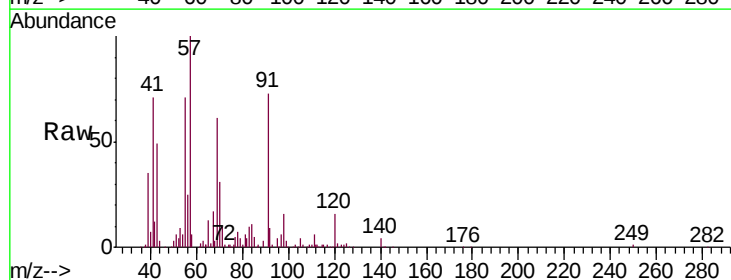
Acq: 2 Oct 2019 13:53

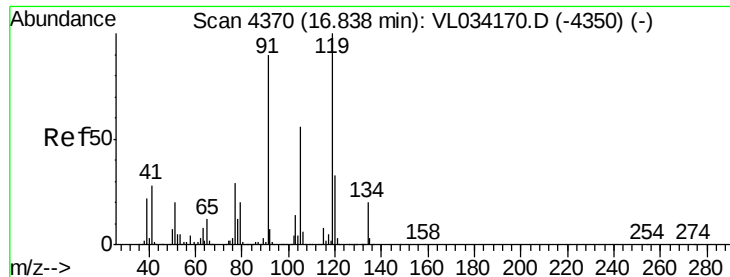
Tgt Ion:120 Resp: 32230

Ion Ratio Lower Upper

120 100

91 629.0 378.2 567.2#

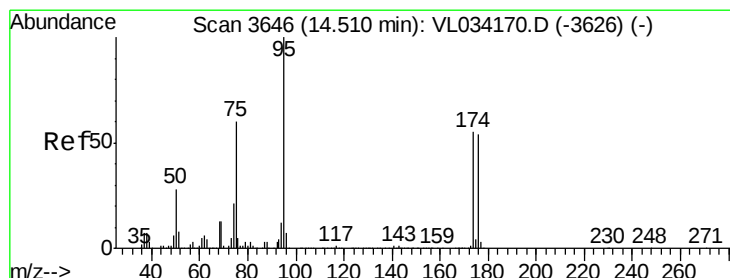
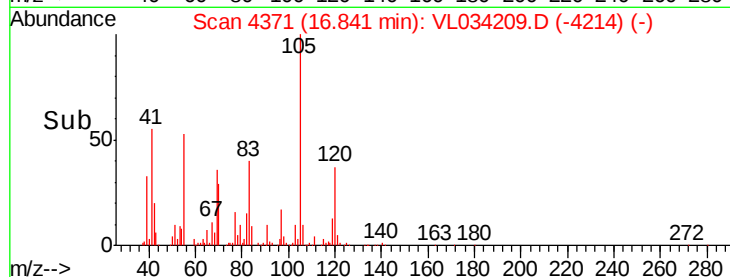
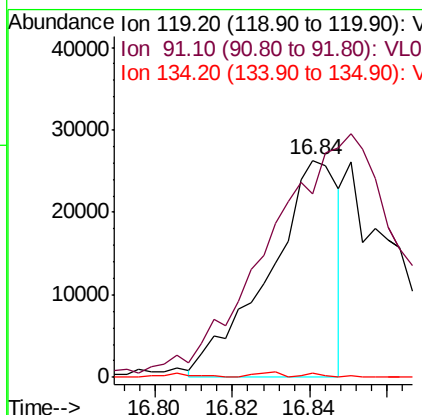
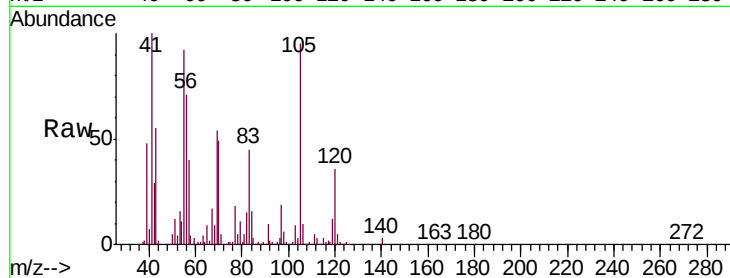




#65
 tert-Butylbenzene
 Concen: 0.116 ppbv
 RT: 16.84 min Scan# 4371
 Delta R.T. 0.00 min
 Lab File: VL034209.D
 Acq: 2 Oct 2019 13:53

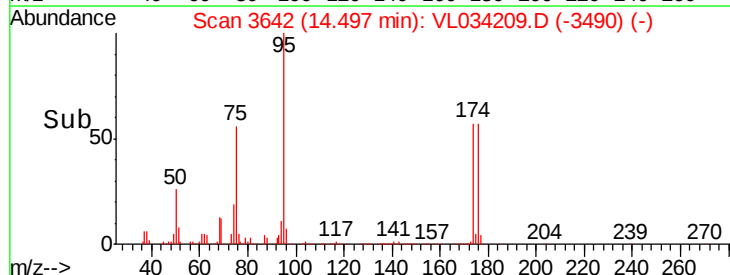
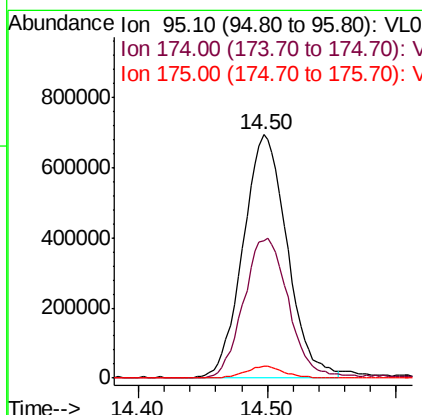
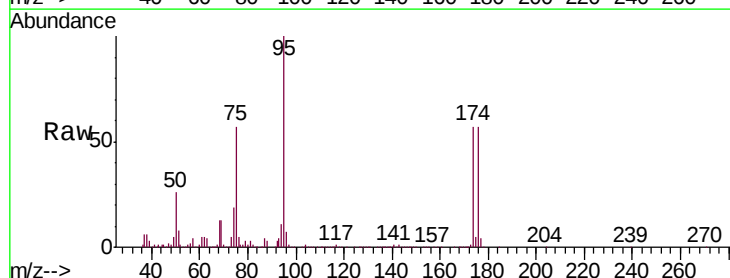
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-5DUP

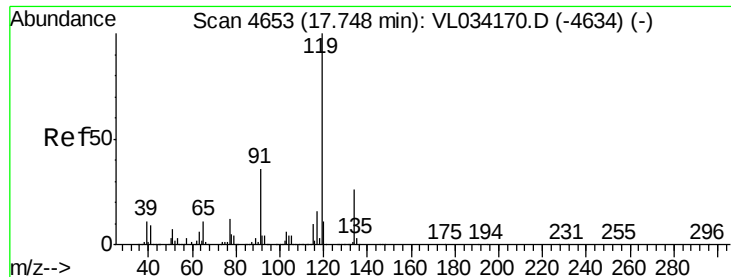
Tgt Ion: 119 Resp: 32893
 Ion Ratio Lower Upper
 119 100
 91 0.0 74.9 112.3#
 134 2.4 15.8 23.6#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.127 ppbv
 RT: 14.50 min Scan# 3642
 Delta R.T. -0.01 min
 Lab File: VL034209.D
 Acq: 2 Oct 2019 13:53

Tgt Ion: 95 Resp: 1646346
 Ion Ratio Lower Upper
 95 100
 174 60.0 45.1 67.7
 175 4.4 3.3 4.9





#69

p-Isopropyltoluene

Concen: 0.127 ppbv

RT: 17.74 min Scan# 4652

Delta R.T. -0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

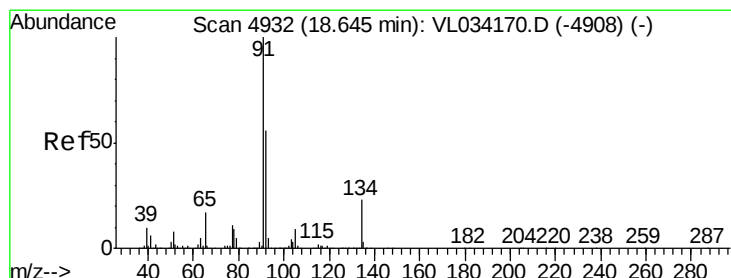
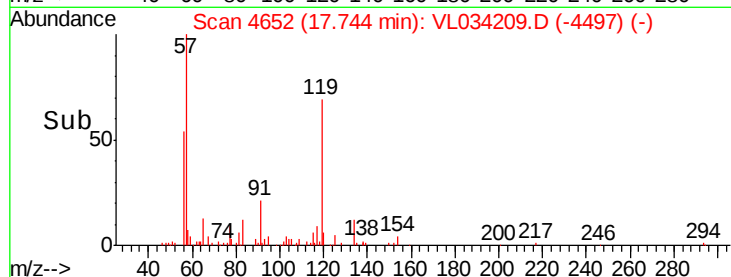
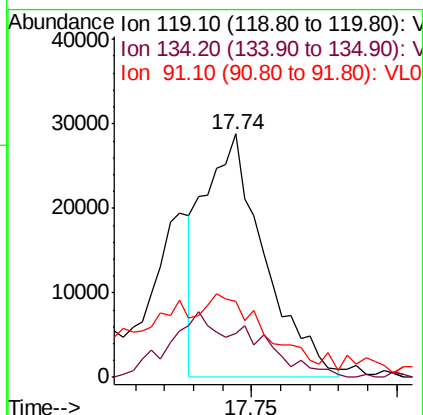
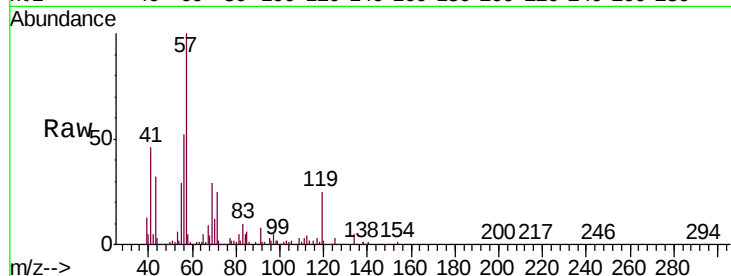
Instrument :

MSVOA_L

ClientSampleId :

SV-5DUP

Tgt Ion:	119	Resp:	41685
Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.6	30.8#
91	57.1	27.6	41.4#



#70

n-Butylbenzene

Concen: 0.031 ppbv

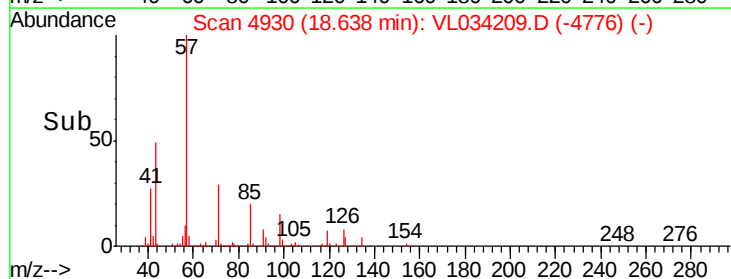
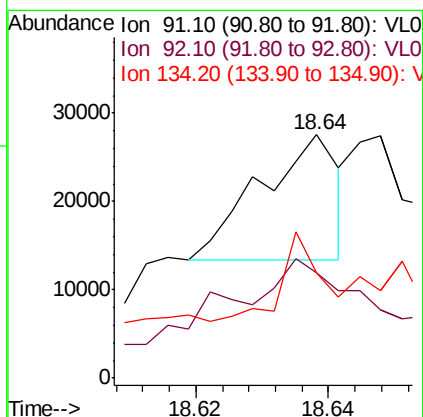
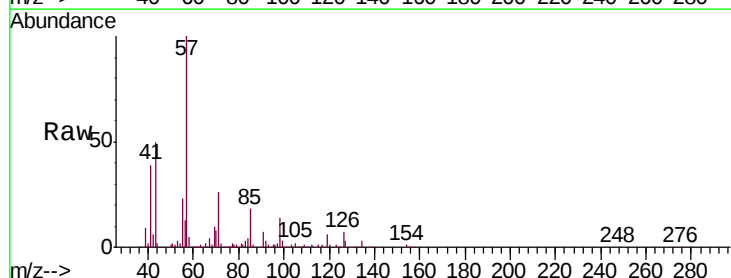
RT: 18.64 min Scan# 4930

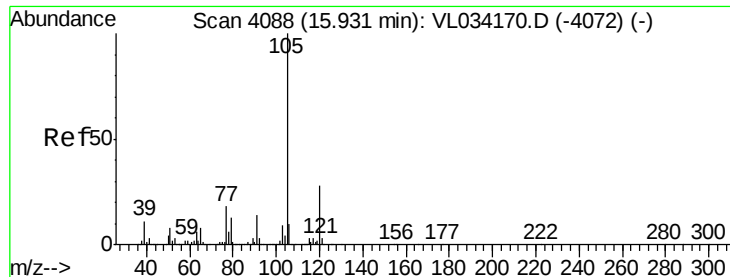
Delta R.T. -0.01 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Tgt Ion:	91	Resp:	11786
Ion	Ratio	Lower	Upper
91	100		
92	264.9	44.8	67.2#
134	272.0	17.3	25.9#





#72

4-Ethyltoluene

Concen: 0.286 ppbv

RT: 15.93 min Scan# 4087

Delta R.T. -0.00 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

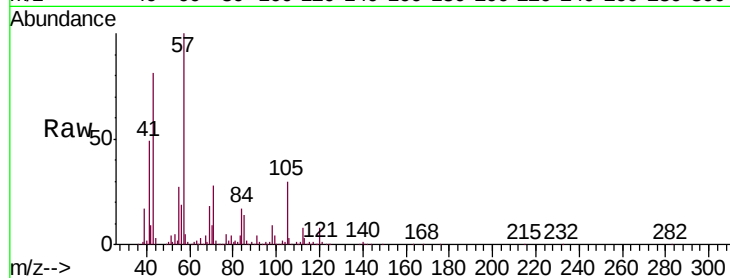
Instrument :

MSVOA_L

ClientSampleId :

SV-5DUP

Tgt Ion:	105	Resp:	80777
Ion	Ratio	Lower	Upper
105	100		
120	71.4	23.3	34.9#
91	0.0	11.4	17.2#
77	41.0	13.3	19.9#

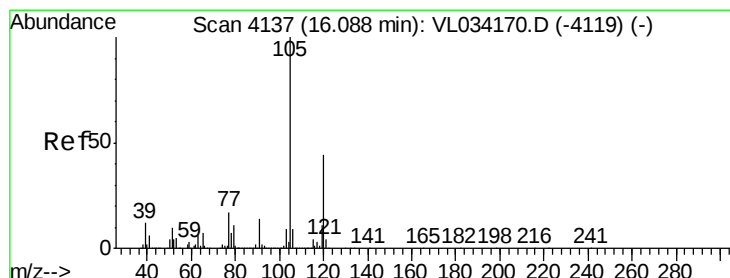
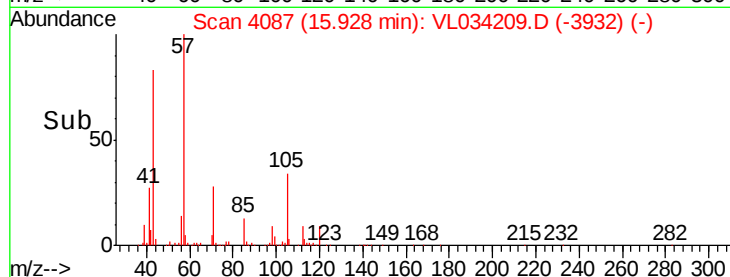
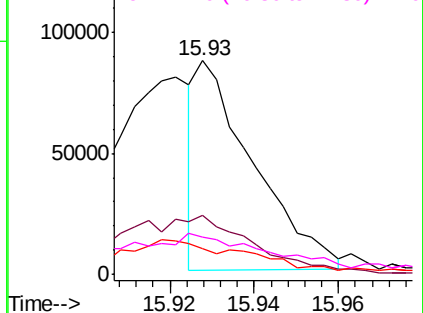


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.281 ppbv

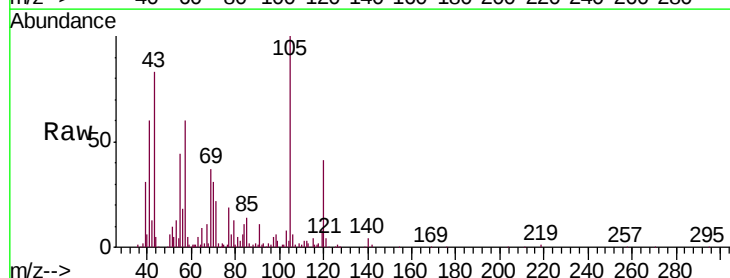
RT: 16.08 min Scan# 4135

Delta R.T. -0.01 min

Lab File: VL034209.D

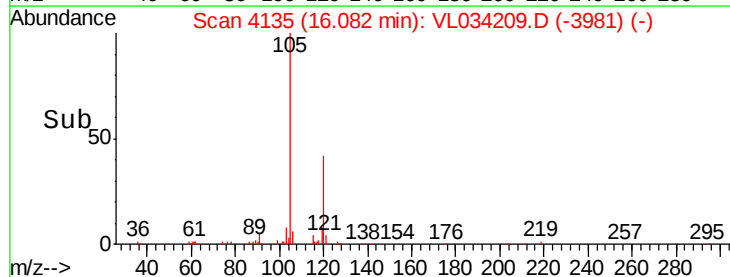
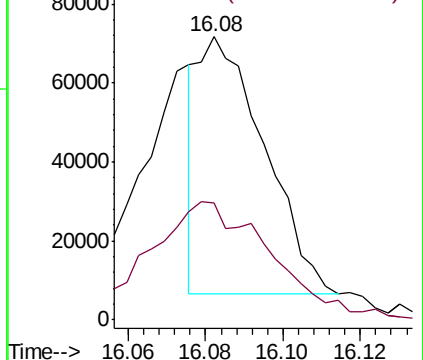
Acq: 2 Oct 2019 13:53

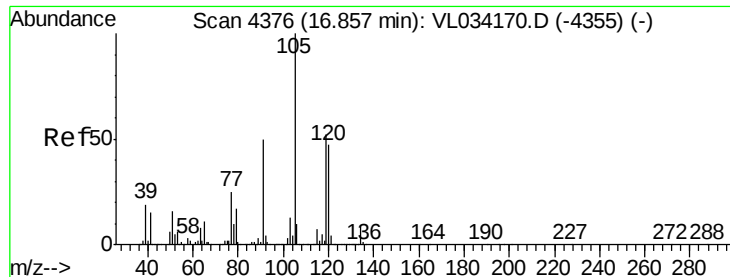
Tgt Ion:	105	Resp:	76660
Ion	Ratio	Lower	Upper
105	100		
120	37.8	35.6	53.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 1.851 ppbv

RT: 16.84 min Scan# 4372

Delta R.T. -0.01 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

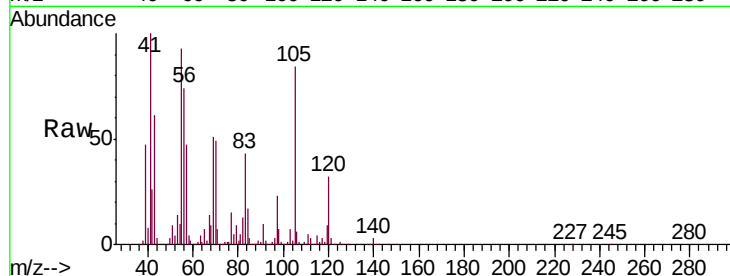
Instrument :

MSVOA_L

ClientSampleId :

SV-5DUP

Tgt Ion:	105	Resp:	536314
Ion	Ratio	Lower	Upper
105	100		
120	37.7	37.5	56.3
91	11.5	41.1	61.7#
77	16.7	19.9	29.9#



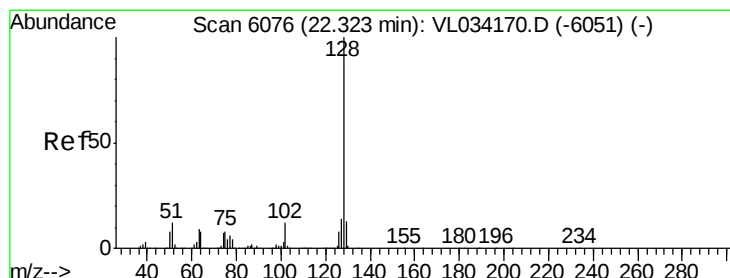
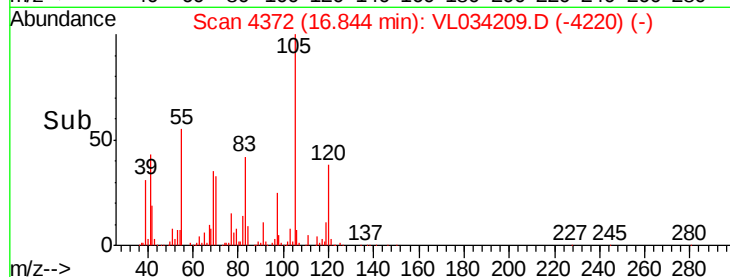
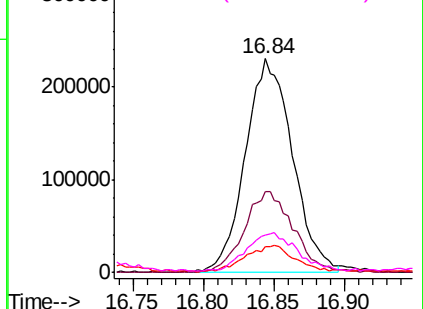
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#79

Naphthalene

Concen: 0.048 ppbv

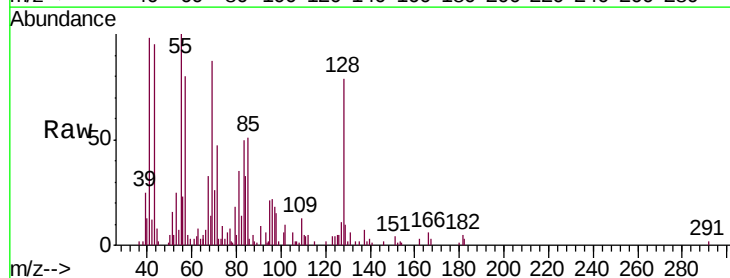
RT: 22.31 min Scan# 6071

Delta R.T. -0.02 min

Lab File: VL034209.D

Acq: 2 Oct 2019 13:53

Tgt Ion:	128	Resp:	12143
Ion	Ratio	Lower	Upper
128	100		
127	14.9	11.1	16.7
129	12.4	10.2	15.4



Abundance

Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

